

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION

2021-036.GAH
 3705 IN SR 16
 Brook, IN 47922

01.08.2026

2021-036.GAH



County Commissioners:

District 1: Steven Eilers
 District 2: Abbey Rossiter
 District 3: Robert Churchill

County Council:

District 1: Tom Vanvleet
 District 2: Scott Carlson
 District 3: Matthew Walsh
 District 4: David Atkinson
 At Large: Heidi McCord
 At Large: Mick Vanderwall
 At Large: Robert Goncy

OVERALL

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2 OF 2	TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY

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General Notes

Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations from the requirements of the Contract Documents, or waive the Contractor's responsibility to alert the Architect to errors or omissions contained therein.

Each Contractor shall verify in the field all existing applicable conditions and dimensions shown on the Drawings and as pertinent to the intent of these Drawings. Any discrepancy discovered shall be brought to the attention of the Architect prior to the commencement of any Work affected by, or related to, such discrepancy.

Each Contractor shall be responsible for all costs associated with, or caused by failure to comply with requirement.

Each Contractor shall review in advance all portions of the Work to verify that the Work will not prohibit completion of the Project as intended in these Contract Documents. Any questions shall be promptly referred to the Architect for resolution.

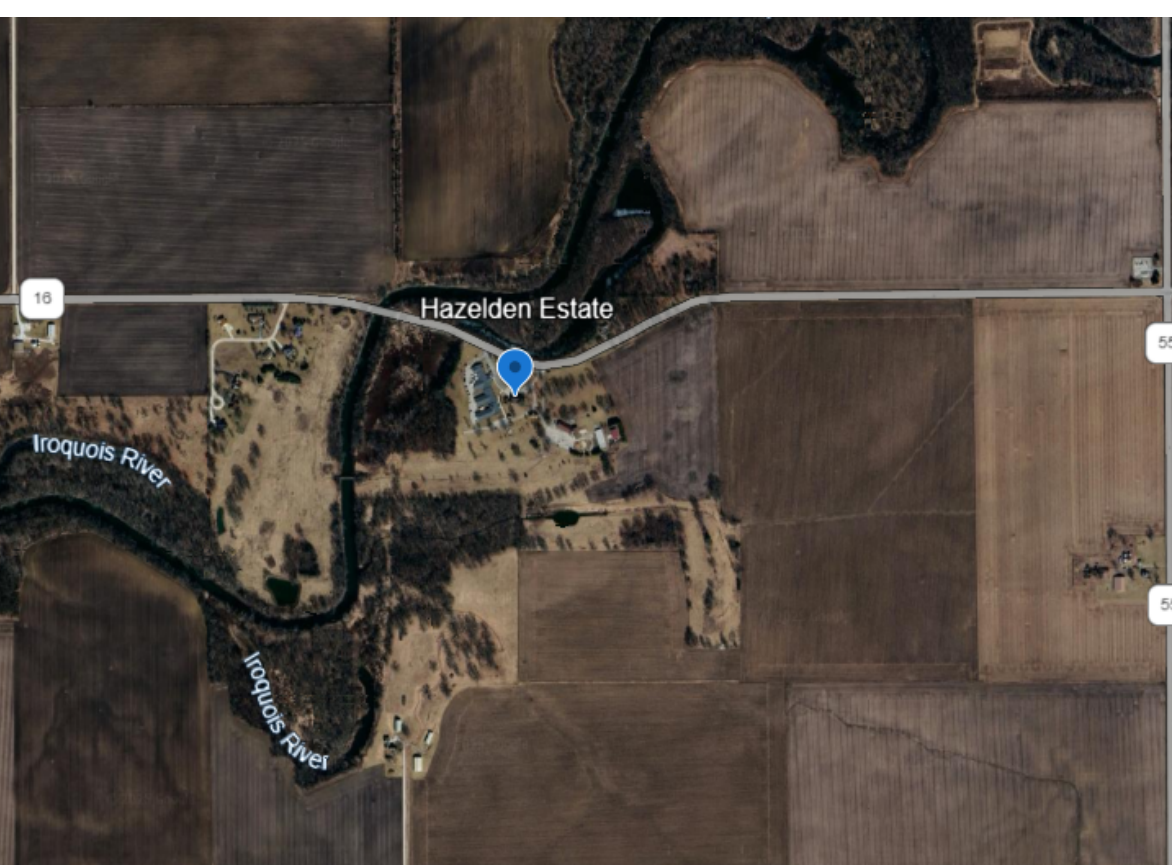
Each Contractor shall refer to the Project Manual for cleaning and disposal requirements.

Each Contractor shall be responsible for the protection of all surfaces and finishes at interior and exterior of building. Damaged surfaces and finishes resulting from the performance of the Work shall be repaired at no cost to the Owner by the responsible Contractor to match existing to the satisfaction of the Owner.

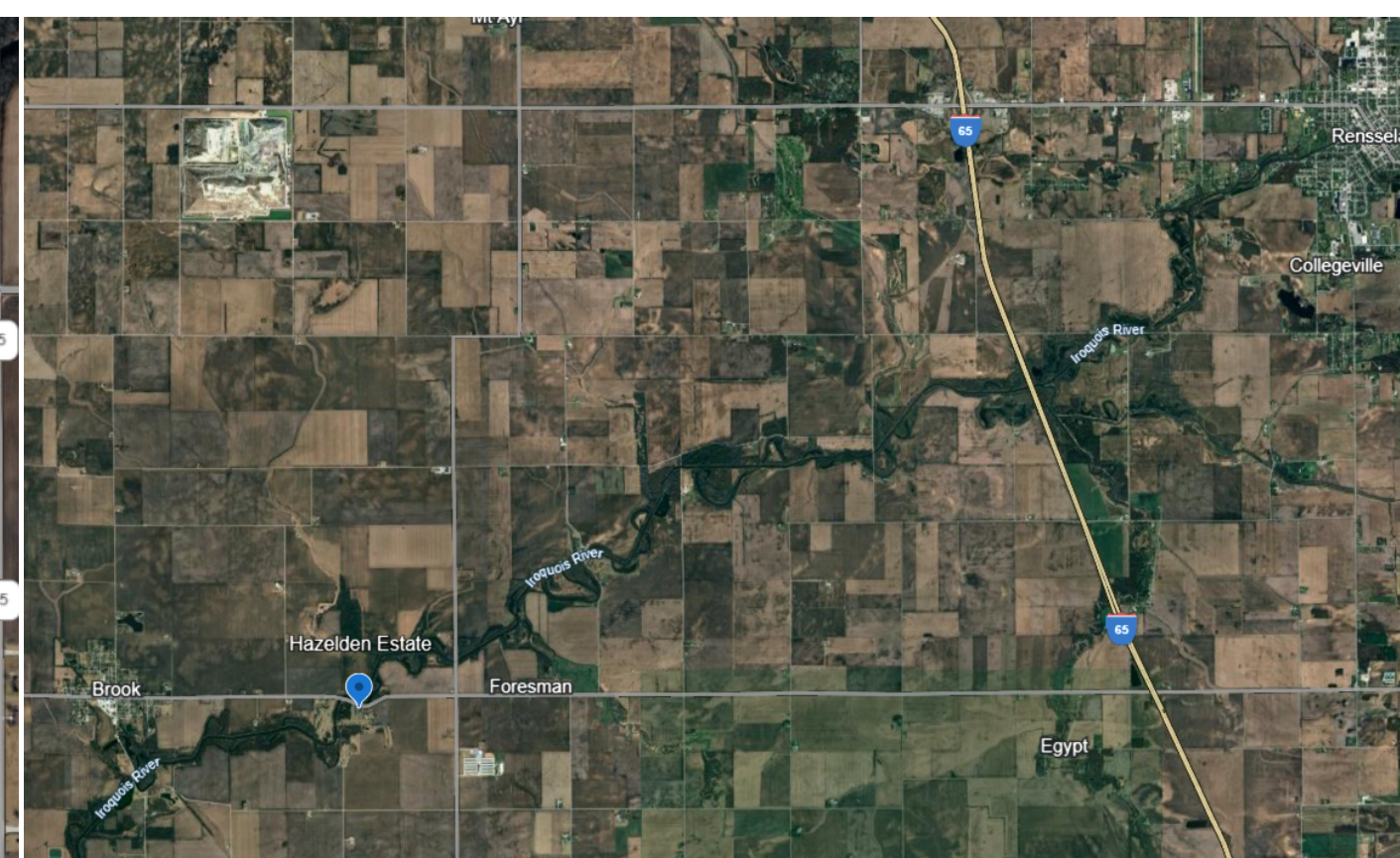
Each Contractor shall coordinate respective cutting and patching Work with the other Prime Contractors.

Each Contractor shall become completely familiar with all aspects of the Work, even those areas designated to be provided by others. This familiarization includes full and complete understanding of the Work described on all Sheets of the Drawings and in all Sections of the Project Manual. Failure by the Contractor to become completely familiar and cognizant of all aspects of the Work shall not relieve the Contractor of the responsibility to provide materials, assemblies, or services indicated in the Contract Documents.

Vicinity Map



Thoroughfare Map



Professional Engineer Seal for Robert M. Lee, No. 10100205, State of Indiana.

Professional Engineer Seal for Kathleen Henneberry, No. AR10400134, State of Indiana.

Professional Engineer Seal for Kyle Miller, No. 19900465, State of Indiana.

Signatures of Sarah K. Hempstead and Kyle Miller.

SCHMIDT ASSOCIATES
 schmidt-arch.com • 317.263.6226
 415 Massachusetts Ave., Indianapolis, IN 46204
 731 Brent St. #203, Louisville, KY 40204

REITANO DESIGN GROUP

HJB Lynch, Harrison & Brumleve, Inc.

BID PACKAGE SCHEDULE		
BID PACKAGE	PACKAGE DESCRIPTION	ISSUE DATE
1	GARDEN RESTORATION	PREVIOUSLY AWARDED
2	UTILITY SITE PREPARATION	11.21.2025
3	HOUSE RESTORATION	11.21.2025
4	CARRIAGE HOUSE RENOVATION	11.21.2025
5	SUPPLEMENTAL SITE WORK	11.21.2025

NEWTON COUNTY BOARD OF COMMISSIONERS
 HAZELDEN ESTATE RESTORATION

5

4

3

2

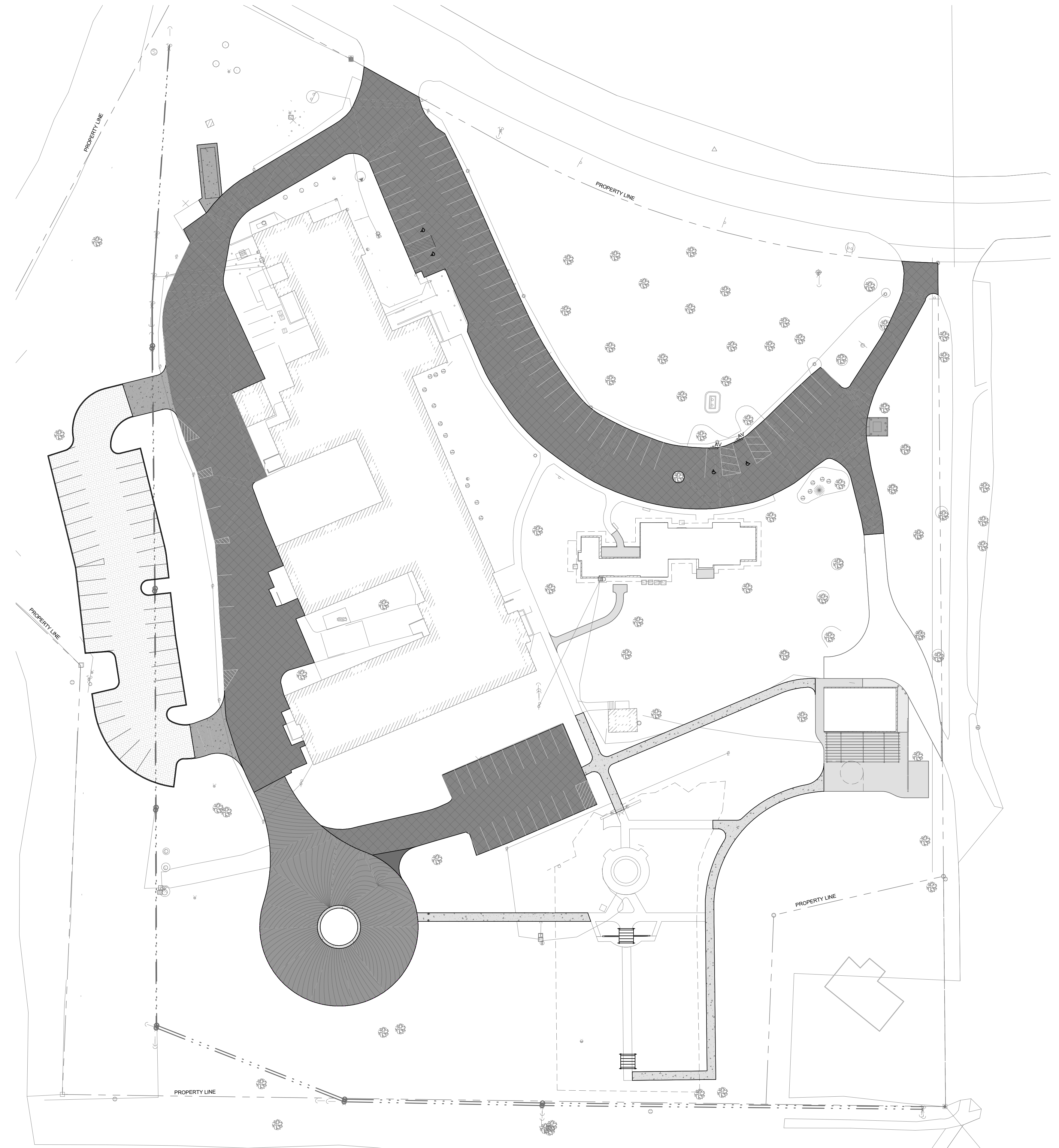
1

D

C

B

A



1 OVERALL SITE LAYOUT PLAN
1" = 40'-0"

GENERAL LAYOUT NOTES

1. REFERENCE C-001 FOR GENERAL LAYOUT PLAN NOTES.
2. NORTHING AND EASTING COORDINATES ARE STATE PLANE COORDINATES BASED ON A TOPOGRAPHIC SURVEY. REFER TO SURVEY DRAWINGS FOR HORIZONTAL CONTROL POINT DATA.
3. ALL EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.

SUPPLEMENTAL SITE WORK LAYOUT LEGEND

	HEAVY DUTY ASPHALT. SEE DETAIL 1C/CL501.5 AND SPECS
	STANDARD DUTY CONCRETE. SEE DETAIL 1A/CL501.5 AND SPECS
	HEAVY DUTY CONCRETE. SEE DETAIL 1B/CL501.5 AND SPECS
	SEAL COAT. SEE SPECS
	PERMEABLE PAVERS. SEE DETAIL 5A/CL501.5 AND SPECS



SCHMIDT ASSOCIATES

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415 Massachusetts Ave., Indianapolis, IN 46204
731 Brent St. #203, Louisville, KY 40204

Project No. 2021-036.GAH
Project Date 01.08.2026
Produced SG/CF



Kyle E. Miller

These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Architect.

#	Revision	Date
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#	Revision	Date

3705 IN-16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - COMPOSITE SITE LAYOUT

COMPOSITE SITE LAYOUT

G-001

5

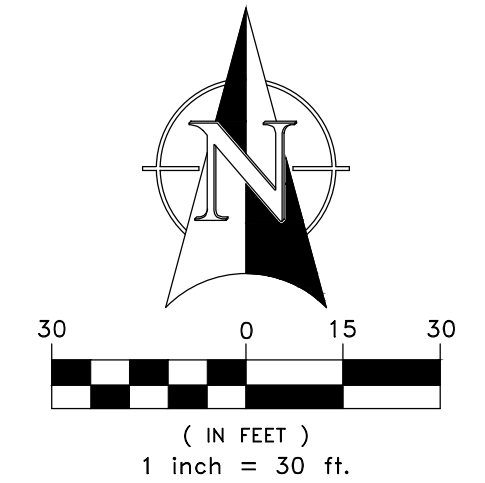
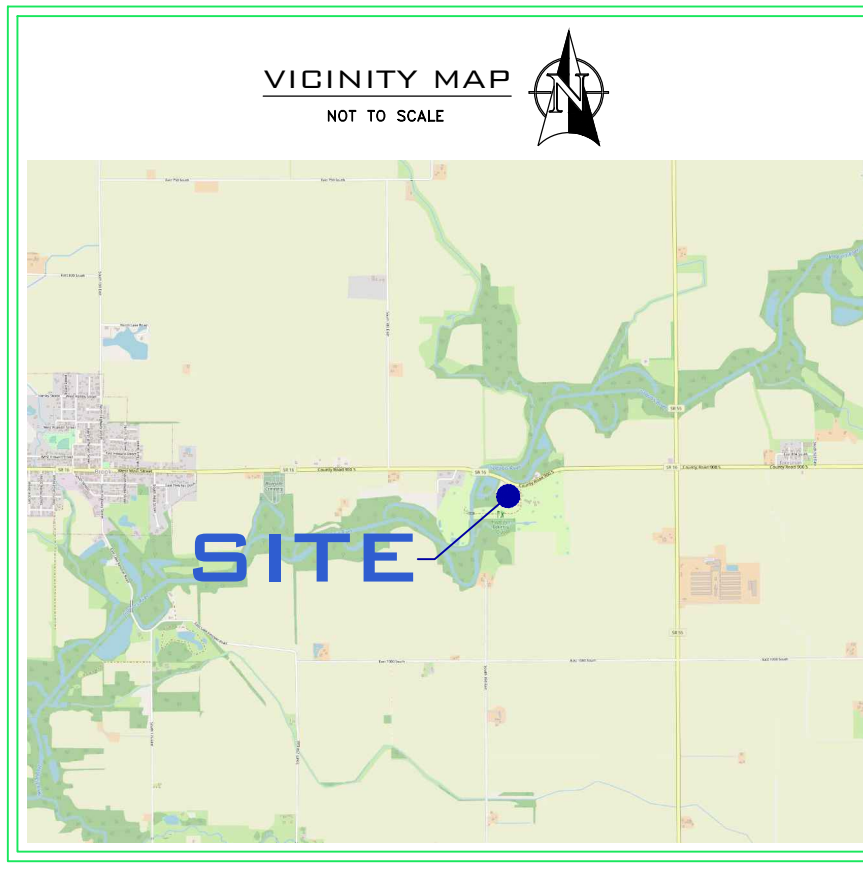
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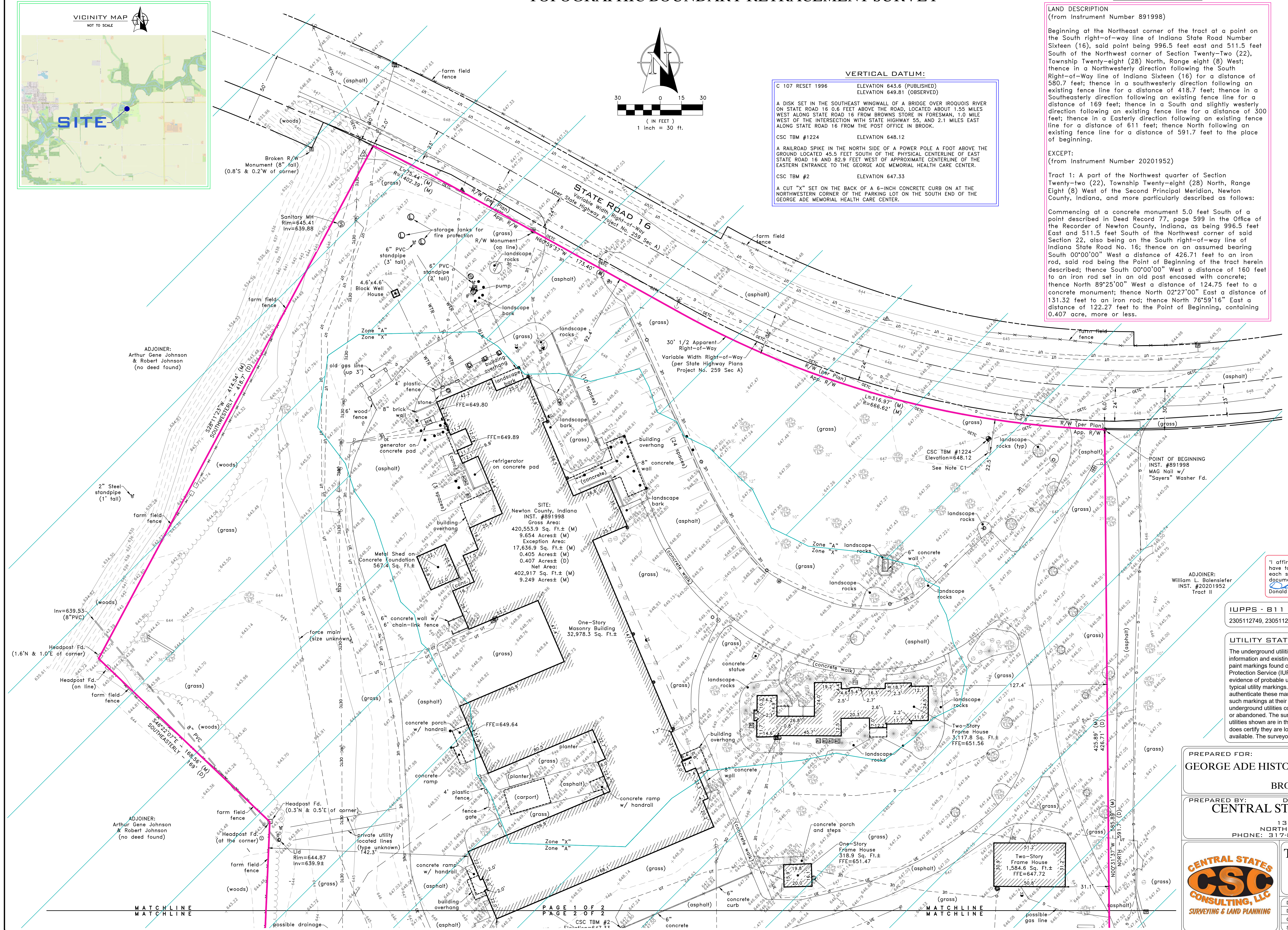
TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY



VERTICAL DATUM:
 C 107 RESET 1996 ELEVATION 643.6 (PUBLISHED)
 ELEVATION 649.81 (OBSERVED)
 A DISK SET IN THE SOUTHEAST WINGWALL OF A BRIDGE OVER IROQUOIS RIVER ON STATE ROAD 16 0.6 FEET ABOVE THE ROAD, LOCATED ABOUT 1.55 MILES WEST ALONG STATE ROAD 16 FROM BROWNS STORE IN FORESMAN, 1.0 MILE WEST OF THE INTERSECTION WITH STATE HIGHWAY 55, AND 2.1 MILES EAST ALONG STATE ROAD 16 FROM THE POST OFFICE IN BROOK.
 CSC TBM #1224 ELEVATION 648.12
 A RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE A FOOT ABOVE THE GROUND LOCATED 45.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF EAST STATE ROAD 16 AND 82.9 FEET WEST OF APPROXIMATE CENTERLINE OF THE EASTERN ENTRANCE TO THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.
 CSC TBM #2 ELEVATION 647.33
 A CUT "X" SET ON THE BACK OF A 6-INCH CONCRETE CURB ON AT THE NORTHWESTERN CORNER OF THE PARKING LOT ON THE SOUTH END OF THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.

LAND DESCRIPTION
 (from Instrument Number 891998)
 Beginning at the Northeast corner of the tract at a point on the South right-of-way line of Indiana State Road Number Sixteen (16), said point being 996.5 feet east and 511.5 feet South of the Northwest corner of Section Twenty-Two (22), Township Twenty-eight (28) North, Range eight (8) West; thence in a Northwesterly direction following the South Right-of-Way line of Indiana Sixteen (16) for a distance of 580.7 feet; thence in a southwesterly direction following an existing fence line for a distance of 418.7 feet; thence in a Southeastery direction following an existing fence line for a distance of 169 feet; thence in a South and slightly westerly direction following an existing fence line for a distance of 300 feet; thence in an Easterly direction following an existing fence line for a distance of 611 feet; thence North following an existing fence line for a distance of 591.7 feet to the place of beginning.
 EXCEPT:
 (from Instrument Number 20201952)
 Tract 1: A part of the Northwest quarter of Section Twenty-two (22), Township Twenty-eight (28) North, Range Eight (8) West of the Second Principal Meridian, Newton County, Indiana, and more particularly described as follows:
 Commencing at a concrete monument 5.0 feet South of a point described in Deed Record 77, page 599 in the Office of the Recorder of Newton County, Indiana, as being 996.5 feet East and 511.5 feet South of the Northwest corner of said Section 22, also being on the South right-of-way line of Indiana State Road No. 16; thence on an assumed bearing South 00°00'00" West a distance of 426.71 feet to an iron rod, said rod being the Point of Beginning of the tract herein described; thence South 00°00'00" West a distance of 160 feet to an iron rod set in an old post encased with concrete; thence North 89°25'00" West a distance of 124.75 feet to a concrete monument; thence North 02°27'00" East a distance of 131.32 feet to an iron rod; thence North 76°59'16" East a distance of 122.27 feet to the Point of Beginning, containing 0.407 acre, more or less.

LEGEND:	
SYMBOL	DESCRIPTION:
—/—	SIGN / TWO POST SIGN
⊗	WATER VALVE/FIRE HYD/METER
⊕	TELE/FIBER OPTIC/GAS MARKER
⊙	GAS METER / VALVE
□	CLEAN-OUT
⊞	ELEC. METER BOX/TRANSFORMER
⊞	ELEC. / TELEPHONE PEDESTAL
⊞	GUARD POST/POST WITH LIGHT
⊞	AIR CONDITIONER / GENERATOR
⊞	MAGNAIL SET/FOUND
⊞	REBAR SET/FOUND
⊞	SQUARE / ROUND / CURB INLET
⊞	TRAFFIC/COMBO/ POWER POLE
⊞	LIGHT POLE - SQUARE / ROUND
⊞	CONIFEROUS TREE & SIZE
⊞	DECIDUOUS TREE & SIZE
⊞	DRAINAGE /SANITARY MANHOLE
⊞	COMBINATION/MISC. LID MANHOLE
⊞	BEEHIVE ROUND/SQUARE INLET
⊞	GUY WIRE / ROUND LIGHT
---	UNDG. WATER LINE
---	UNDG. GAS LINE
---	UNDG. TELEPHONE LINE
---	UNDG. ELECTRIC LINE
---	OVERHEAD ELE. & TEL
---	OVERHEAD ELE TEL & CAB
---	OVERHEAD ELECTRIC
---	vitrified clay pipe
---	reinforced concrete pipe
---	polyethylene coated pipe
---	high-density polyethylene pipe
---	ductile iron pipe



SITE:
 Newton County, Indiana
 INST. #891998
 Gross Area:
 420,553.9 Sq. Ft.± (M)
 9.654 Acres± (M)
 Exception Area:
 17,626.9 Sq. Ft.± (M)
 0.405 Acres± (M)
 Net Area:
 402,917 Sq. Ft.± (M)
 9.249 Acres± (M)

"I affirm, under penalties for perjury, I have taken reasonable care to reduce each social security number in this document, unless required by law."
 Donald R. Mossan

IUPPS - B11 TICKET REQUEST NUMBER(S):
 2305112749, 2305112779

UTILITY STATEMENT:
 The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of point markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The point markings shown herein as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

PREPARED FOR:
 GEORGE ADE HISTORIC PRESERVATION COMMISSION
 P.O. BOX 93
 BROOK, INDIANA 47922

PREPARED BY:
 DONALD R. MOSSAN
CENTRAL STATES CONSULTING, LLC
 13 WEST PEARL STREET
 NORTH SALEM, INDIANA 46165
 PHONE: 317-858-8662 FAX: 317-342-2857

CENTRAL STATES CONSULTING, LLC
TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
 3623 STATE ROAD 16
 BROOK, INDIANA 47922

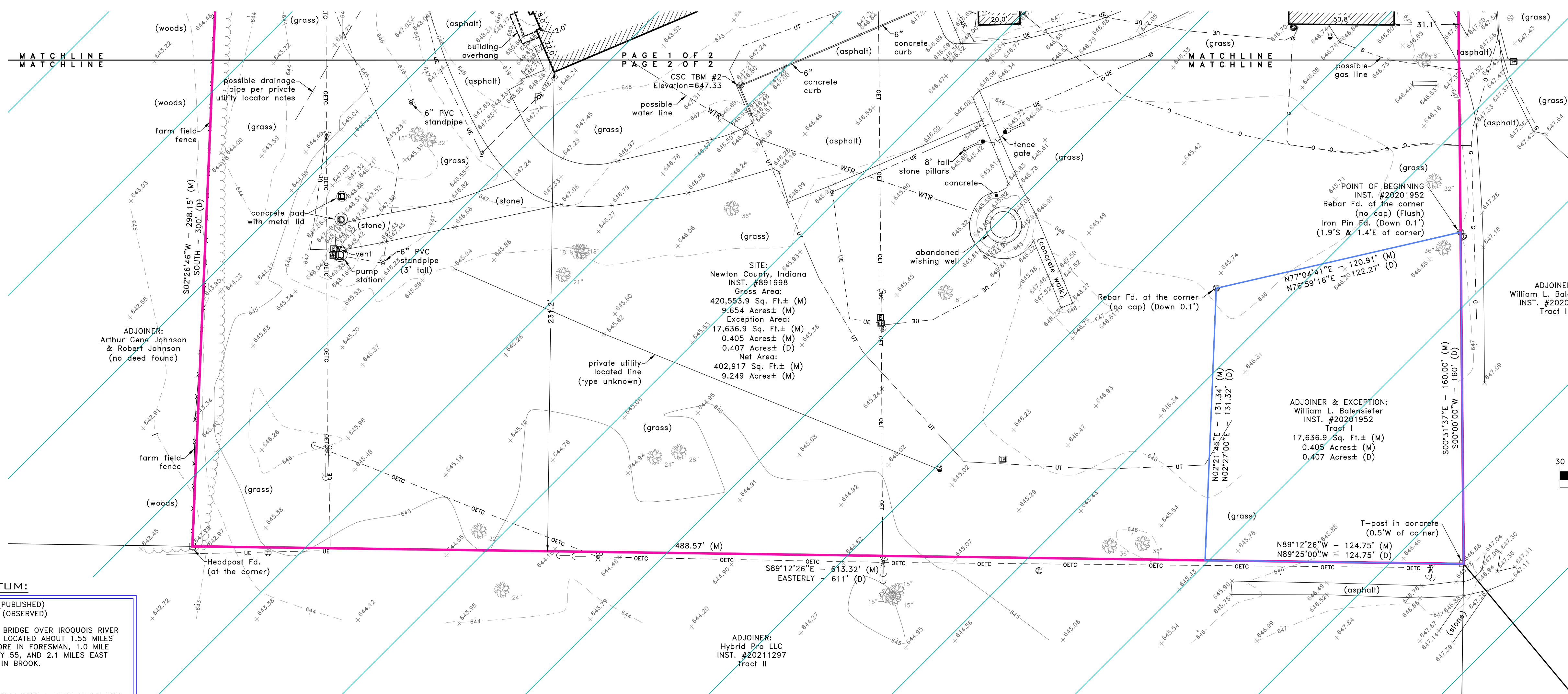
DATE: 06-12-2023
DWN. BY: JLM
CHKD. BY: DRM
SCALE: 1" = 30'
PROJECT NUMBER: 23-029
SHEET 1 OF 2

MATCHLINE

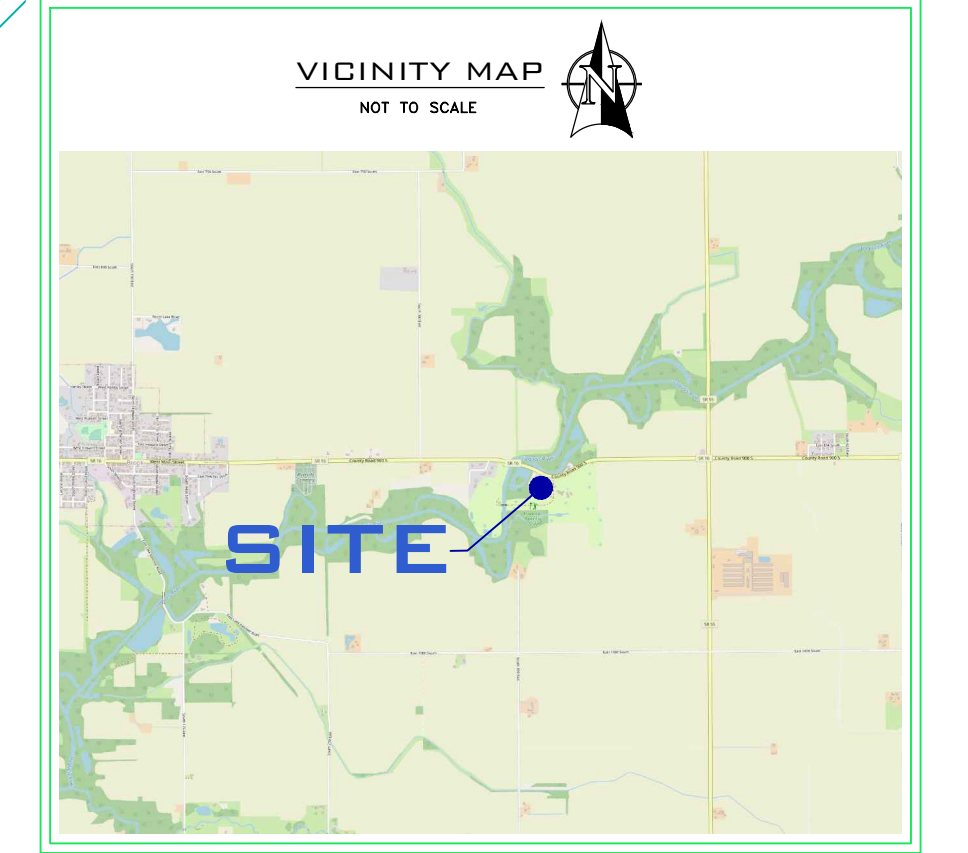
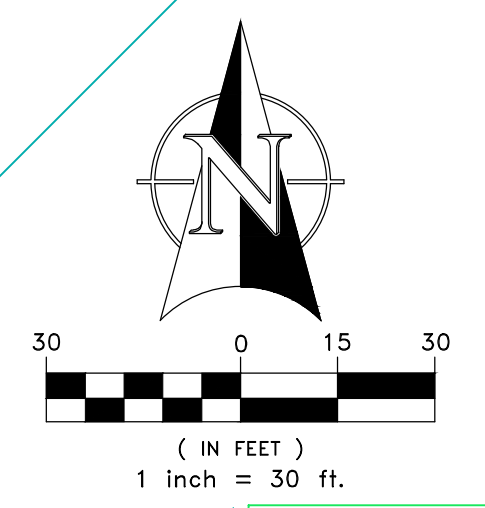
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MATCHLINE

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY



LEGEND:	
— / —	DESCRIPTION:
— / —	SIGN / TWO POST SIGN
— / —	WATER VALVE/FIRE HYD/METER
— / —	TELE/FIBER OPTIC/GAS MARKER
— / —	GAS METER / VALVE
— / —	CLEAN-OUT
— / —	ELEC. METER BOX/TRANSFORMER
— / —	ELEC. / TELEPHONE PEDESTAL
— / —	GUARD POST/POST WITH LIGHT
— / —	AIR CONDITIONER / GENERATOR
— / —	MAGNAIL SET/FOUND
— / —	REBAR SET/FOUND
— / —	SQUARE / ROUND / CURB INLET
— / —	TRAFFIC/COMBO/ POWER POLE
— / —	LIGHT POLE - SQUARE / ROUND
— / —	CONIFEROUS TREE & SIZE
— / —	DECIDUOUS TREE & SIZE
— / —	DRAINAGE /SANITARY MANHOLE
— / —	COMBINATION/MISC. LID MANHOLE
— / —	BEEHIVE ROUND/SQUARE INLET
— / —	GUY WIRE / GROUND LIGHT
— / —	UNDG. WATER LINE
— / —	UNDG. GAS LINE
— / —	UNDG. TELEPHONE LINE
— / —	UNDG. ELECTRIC LINE
— / —	OVERHEAD ELE. & TEL
— / —	OVERHEAD ELE TEL & CAB
— / —	OVERHEAD ELECTRIC
— / —	VCP
— / —	RCP
— / —	PVC
— / —	HDPE
— / —	DUCTILE IRON PIPE



VERTICAL DATUM:

C 107 RESET 1996 ELEVATION 643.6 (PUBLISHED)
ELEVATION 649.81 (OBSERVED)

A DISK SET IN THE SOUTHEAST WINGWALL OF A BRIDGE OVER IROQUOIS RIVER ON STATE ROAD 16 0.6 FEET ABOVE THE ROAD, LOCATED ABOUT 1.55 MILES WEST ALONG STATE ROAD 16 FROM BROWNS STORE IN FORESMAN, 1.0 MILE WEST OF THE INTERSECTION WITH STATE HIGHWAY 55, AND 2.1 MILES EAST ALONG STATE ROAD 16 FROM THE POST OFFICE IN BROOK.

CSC TBM #1224 ELEVATION 648.12

A RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE A FOOT ABOVE THE GROUND LOCATED 45.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF EAST STATE ROAD 16 AND 82.9 FEET WEST OF APPROXIMATE CENTERLINE OF THE EASTERN ENTRANCE TO THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.

CSC TBM #2 ELEVATION 647.33

A CUT "X" SET ON THE BACK OF A 6-INCH CONCRETE CURB ON AT THE NORTHWESTERN CORNER OF THE PARKING LOT ON THE SOUTH END OF THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.

SURVEYOR'S REPORT

In accordance with Title 865, Article 1.1, Chapter 12, Sections 1 through 19 of the Indiana Administrative Code, the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established on this survey as a result of:

- A) Variances in the reference monuments;
- B) Discrepancies in record descriptions and plats;
- C) Inconsistencies in lines of occupation and;
- D) Random errors in measurement (Relative Positional Accuracy)

There may be unwritten rights associated with these uncertainties. The client should assume there is an amount of uncertainty along any line equal in magnitude to the discrepancy in the location of the lines of possession from the surveyed lines.

There may be differences of deed dimensions versus measured dimensions along the boundary lines shown hereon and, likewise, there may be found survey markers near, but not precisely at, some boundary corners, in cases where the magnitude of these differences are less than the Relative Positional Accuracy stated below and less than the uncertainty identified for the reference monumentation (discussed below), the differences may be considered insignificant and are shown only for purposes of mathematical closure. Such differences that are greater than the Relative Positional Accuracy and the uncertainty in reference monumentation should be considered worthy of notice and are therefore further discussed below.

This survey and report are based in part upon opinions formed in accordance with an Indiana Land Surveyor's responsibility to conduct a survey in accordance with "law or a precedent" (865 IAC 1-12-11(5), Rules of the Indiana State Board of Registration for Land Surveyors). Since Indiana has no statutes addressing how to resolve boundary lines, a solution based on principles derived from common law precedent must be relied upon as the basis for a boundary resolution.

Unless otherwise noted or depicted hereon, there is no evidence of occupation along the perimeter lines of the subject tract. All survey monuments set or found this survey are flush with existing grade unless otherwise noted.

A.) This is a retracement survey of the tract of land granted to Newton County, Indiana, in the Quit-Claim Deed recorded as Instrument Number 891998 in the Office of the Recorder of Newton County, Indiana. The herein surveyed property is within the Northwest Quarter of Section 22, Township 28 North, Range 8 West of the Second Principal Meridian, Iroquois Township, Newton County, Indiana.

1.) The Northeast Corner of said Section 22 is a Harrison Monument found at the surface. The Northwest Corner of Section 21, Township 28 North, Range 8 West is a Harrison Monument found at the surface. The aforementioned corners were found by references supplied by the Office of the Surveyor of Newton County, Indiana and accepted as prima facie evidence for purposes of this survey and was used to control the lines of the surveyed parcel. The Northwest Corner of said Section 22 was not found nor was there a reference for this corner. The deed for the surveyed property and its adjoiners all call out commencing at this corner. Since there was no corner found or located, the physical evidence of the property was used and held to determine the property lines.

2.) The centerline of State Road 16 was determined per the State Highway Plans, Project No. 259 Sec. A, dated 1931. The variable width right-of-way as determined per said State Highway Plans and is shown and dimensioned herein. The apparent right-of-way was determined as being 30-feet from the centerline of State Road 16 per physical monuments found along said apparent right-of-way line. The northern boundary of the surveyed property was held along said apparent right-of-way line. This is as much as 6.00 feet of uncertainty in the right-of-way line of thus the northern boundary line of the surveyed property. The State Highway Plans reference the Northwest Corner of said Section 21 and the Northeast Corner of said Section 22. This relationship between these two corners was used to determine the bearing of centerline of State Road 16.

B.) Record descriptions of the site were obtained from the Newton County Recorder's Office (latest research date: May 15, 2023) and mathematically retraced for the purpose of disclosing any gaps and/or overlaps between the lines of these surveyed parcels and their adjoiners. The following observations were found:

- 1.) There appear to be no gaps, gorges, or overlaps in the deeds of the surveyed property and its eastern and southern adjoiners. There was no deed found for the western adjoining property, thus I cannot determine whether a

gap, gorge, or overlap exists between the surveyed property and the western adjoiner.

- 2.) As previously stated, the northern boundary line of the surveyed property was held along the apparent right-of-way line of State Road 16. In the deed this distance along the right-of-way was stated to be 580.7 feet. I have measured the combined distances along the apparent right-of-way to be 565.81 feet, causing a discrepancy of 14.89 feet.
- 3.) The northernmost western boundary line of the surveyed property is described as being 418.7 feet along a fence line. I have measured this line to be 414.54 feet along remnants of a farm field fence, causing a discrepancy of 4.16 feet. The distance along this line from the variable width right-of-way line is 416.57 feet.
- 4.) The western boundary line of the surveyed property is described as being 169 feet along a fence line. I have measured this line to be 168.56 feet along a farm field fence, causing a discrepancy of 0.44 feet.
- 5.) The southernmost western boundary line of the surveyed property is described as being 300 feet along a fence line. I have measured this line to be 298.15 feet along a farm field fence, causing a discrepancy of 1.85 feet.
- 6.) The southern line of the surveyed property is described as being 611 feet along a fence line. I have measured this line to be 613.32 feet between a headpost on the western end and passing through a T-post in concrete near the eastern end. There is no longer a fence along this line at the time of the survey.
- 7.) The eastern boundary line of the surveyed property is described as being 591.7 feet along a fence line. I have measured this line to be 585.89 feet, causing a discrepancy of 5.81 feet. The location of this line was held per existing monumentation found along said line, a rebar found with no cap at the northeastern corner of the 0.407-acre tract and a MAG nail with a "Sayers" washer found on the apparent right-of-way line of State Road 16. The 5.81-foot discrepancy in this line appears to come from the 6.00-foot uncertainty in the location of the right-of-way line along State Road 16.

C.) A significant inconsistency in the lines of occupation was observed during this survey.

- 1.) There is a power pole with a guy wire and an overhead electric, telephone, and cable line encroaching as much as 22.5 feet onto the surveyed property, as shown herein. I have not been provided with an easement to allow this encroachment.

D) The Relative Positional Accuracy (Due to Random Errors in Measurement) of the corners of the subject tract established by this survey is within the specifications for an Urban Survey (0.07 feet + 50 ppm) as defined in IAC 865.

As a result of the above observations, it is my opinion that the uncertainties in the locations of the lines and corners established on this survey are as follows:

- Due to variances in reference monuments: 6.00 feet;
- Due to discrepancies in the record description: 14.89 feet;
- Due to inconsistencies in lines of occupation: 22.5 feet;
- Due to random errors in measurement: 0.07 feet +/- 50 ppm

Mailing Address of Site: 3623 East State Road 16, Brook, Indiana 47922

Basis of Bearing System: The bearing of the North Line of Section 21, Township 28 North, Range 8 West and the North Line of Section 22, Township 28 North, Range 8 West is North 89 degrees 47 minutes 53 seconds East based upon GPS observations taken at the time of the survey in Indiana State Plane, West Zone, NAD83.

NOTE: This plat of a Boundary Retracement Survey represents the conditions at the date of latest field activity.

NOTE: According to the FEDERAL EMERGENCY MANAGEMENT AGENCY, Flood Insurance Rate Map Number 1811C0280D with an effective date of December 16, 2014, this site lies within Zone "A" (Special flood hazard areas without base flood elevations), and Zone "X" (Areas of 500-year flooding, areas of 100-year flood with average depths of less than 1 foot or with drainage areas of less than 1 square mile; and areas protected by levees from 100-year flood).

Date of Latest Field Activity: May 19, 2023

This Survey was performed without reference to a title company, and it may or may not reveal all of the facts associated with the site.

There are no: (i) encroachments upon the subject property by improvements on adjacent property; (ii) encroachments on adjacent

property, streets or alleys by improvements on the subject property; (iii) no party walls; or (iv) no visible and apparent conflicts or protrusions except as shown herein.

I hereby certify to George Ade Historic Preservation Commission that this survey was conducted under my direct supervision and that, to the best of my knowledge and belief, conforms to the requirements contained within Title 865, Article 1, Chapter 12, of the Indiana Administrative Code for a RETRACEMENT SURVEY.

Date: June 8, 2023

Donald R. Mossion
Donald R. Mossion
State of Indiana
Professional Surveyor No. 9600013



IUPPS - B11 TICKET REQUEST NUMBER(S):
2305112749, 2305112779

UTILITY STATEMENT:

The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of paint markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The paint markings shown hereon as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

PREPARED FOR:
GEORGE ADE HISTORIC PRESERVATION COMMISSION
P.O. BOX 93
BROOK, INDIANA 47922

PREPARED BY: DONALD R. MOSSION
CENTRAL STATES CONSULTING, LLC
P.O. BOX 4
13 WEST PEARL STREET
NORTH SALEM, INDIANA 46165
PHONE: 317-858-8662 FAX: 317-342-2857

CENTRAL STATES CONSULTING, LLC
SURVEYING & LAND PLANNING

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
3623 STATE ROAD 16
BROOK, INDIANA 47922

DATE: 06-12-2023
DWN. BY: JLM
CHKD. BY: DRM
SCALE: 1" = 30'

PROJECT NUMBER: 23-029
SHEET 2 OF 2

NEWTON COUNTY BOARD OF COMMISSIONERS HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION

2021-036.GAH
3705 IN SR 16
Brook, IN 47922

BID PACKAGE 2

01.08.2026

2021-036.GAH



County Commissioners:

District 1: Steven Eilers
District 2: Abbey Rossiter
District 3: Robert Churchill

County Council:

District 1: Tom Vanvleet
District 2: Scott Carlson
District 3: Matthew Walsh
District 4: David Atkinson
At Large: Heidi McCord
At Large: Mick Vanderwall
At Large: Robert Goncy

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CG-000.2	COVER SHEET
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C-001.2	SITE GENERAL NOTES AND ABBREVIATIONS
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2 OF 2	TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
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CU801.2	UTILITY DETAILS
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TS101.2	TELECOMMUNICATIONS SITE PLAN
T-602.2	TELECOMMUNICATIONS SCHEMATICS

General Notes

Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations from the requirements of the Contract Documents, or waive the Contractor's responsibility to alert the Architect to errors or omissions contained therein.

Each Contractor shall verify in the field all existing applicable conditions and dimensions shown on the Drawings and as pertinent to the intent of these Drawings. Any discrepancy discovered shall be brought to the attention of the Architect prior to the commencement of any Work affected by, or related to, such discrepancy.

Each Contractor shall be responsible for all costs associated with, or caused by failure to comply with requirement.

Each Contractor shall review in advance all portions of the Work to verify that the Work will not prohibit completion of the Project as intended in these Contract Documents. Any questions shall be promptly referred to the Architect for resolution.

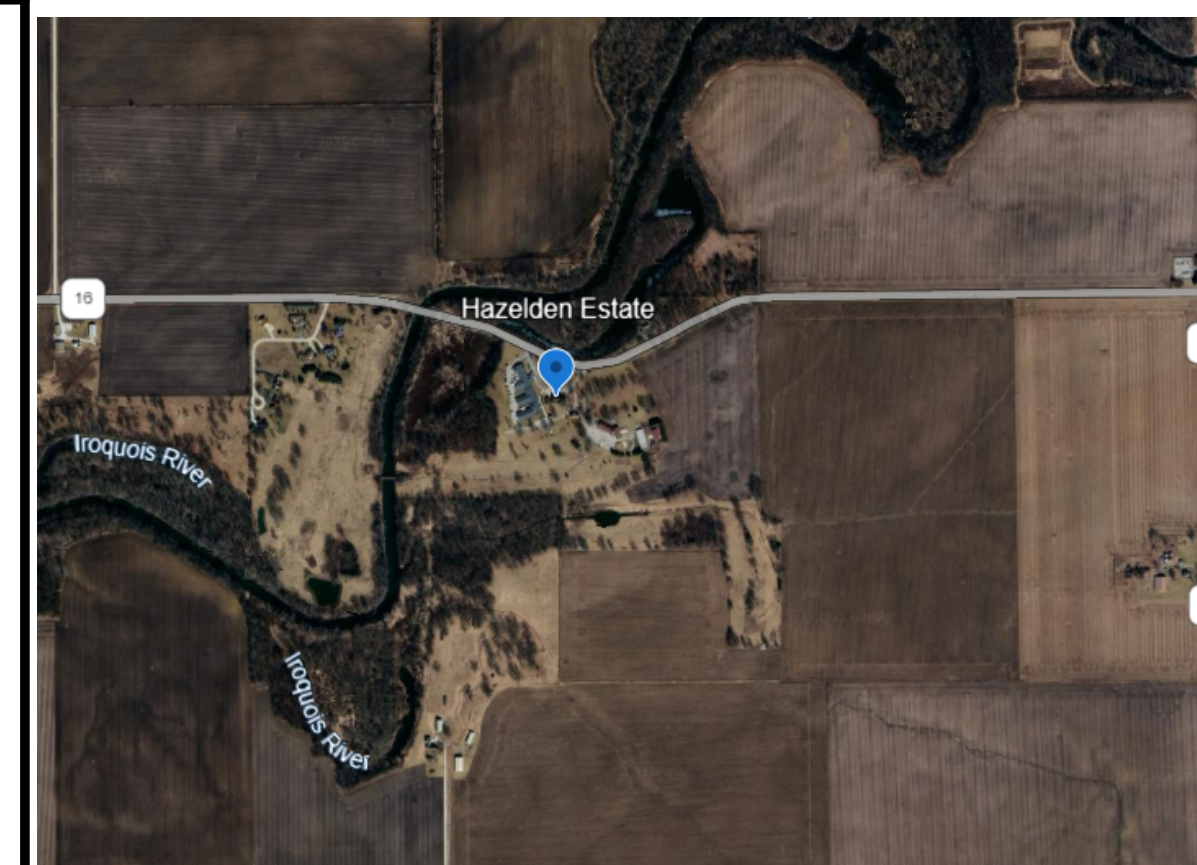
Each Contractor shall refer to the Project Manual for cleaning and disposal requirements.

Each Contractor shall be responsible for the protection of all surfaces and finishes at interior and exterior of building. Damaged surfaces and finishes resulting from the performance of the Work shall be repaired at no cost to the Owner by the responsible Contractor to match existing to the satisfaction of the Owner.

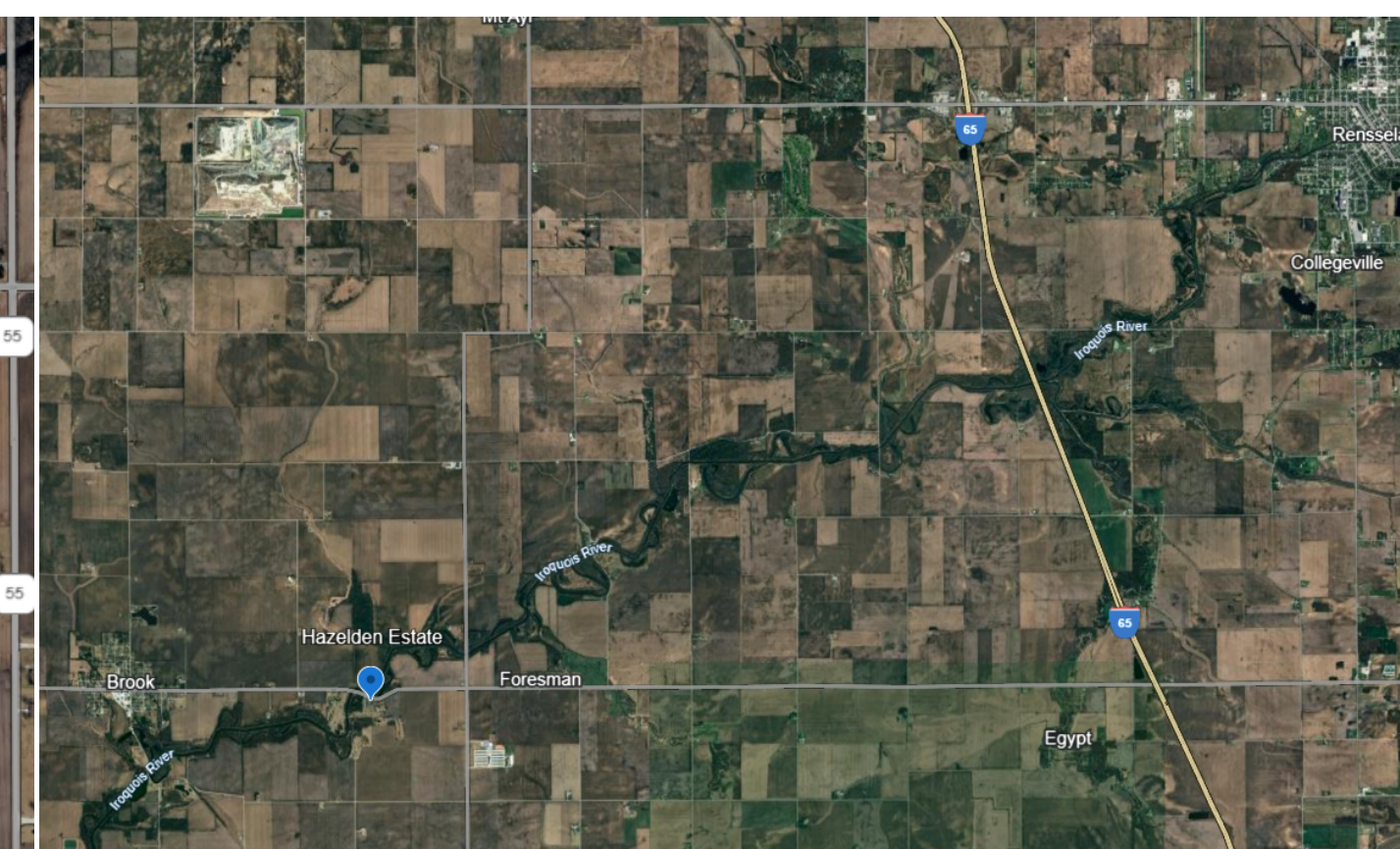
Each Contractor shall coordinate respective cutting and patching Work with the other Prime Contracts.

Each Contractor shall become completely familiar with all aspects of the Work, even those areas designated to be provided by others. This familiarization includes full and complete understanding of the Work described on all Sheets of the Drawings and in all Sections of the Project Manual. Failure by the Contractor to become completely familiar and cognizant of all aspects of the Work shall not relieve the Contractor of the responsibility to provide materials, assemblies, or services indicated in the Contract Documents.

Vicinity Map



Thoroughfare Map



NEWTON COUNTY BOARD OF COMMISSIONERS HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION

Professional Engineer Seal for Robert M. De...
Professional Engineer Seal for E. Miller...
Professional Architect Seal for Sarah K. Hempstead...
Professional Engineer Seal for E. Miller...

SCHMIDT ASSOCIATES
schmidt-arch.com • 317.263.6226
415 Massachusetts Ave., Indianapolis, IN 46204
731 Brent St. #203, Louisville, KY 40204

REITANO DESIGN GROUP

Lynch, Harrison & Brumleve, Inc.

BID PACKAGE SCHEDULE		
BID PACKAGE	PACKAGE DESCRIPTION	ISSUE DATE
1	GARDEN RESTORATION	PREVIOUSLY AWARDED
2	UTILITY SITE PREPARATION	11.21.2025
3	HOUSE RESTORATION	11.21.2025
4	CARRIAGE HOUSE RENOVATION	11.21.2025
5	SUPPLEMENTAL SITE WORK	11.21.2025

NEWTON COUNTY BOARD OF COMMISSIONERS HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2

01.08.2026

2021-036.GAH

General Notes

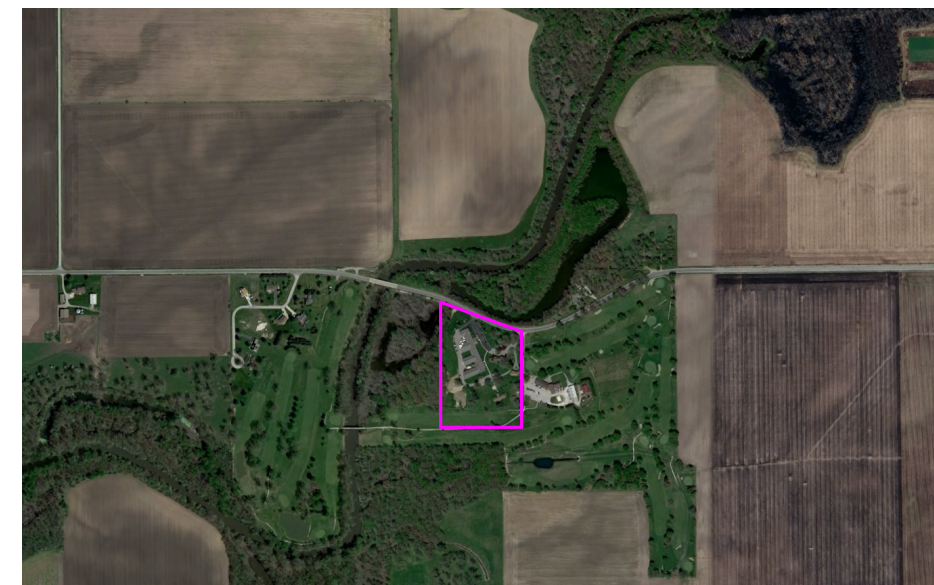
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2021-036.GAH
3705 IN-16
Brook, IN 47922

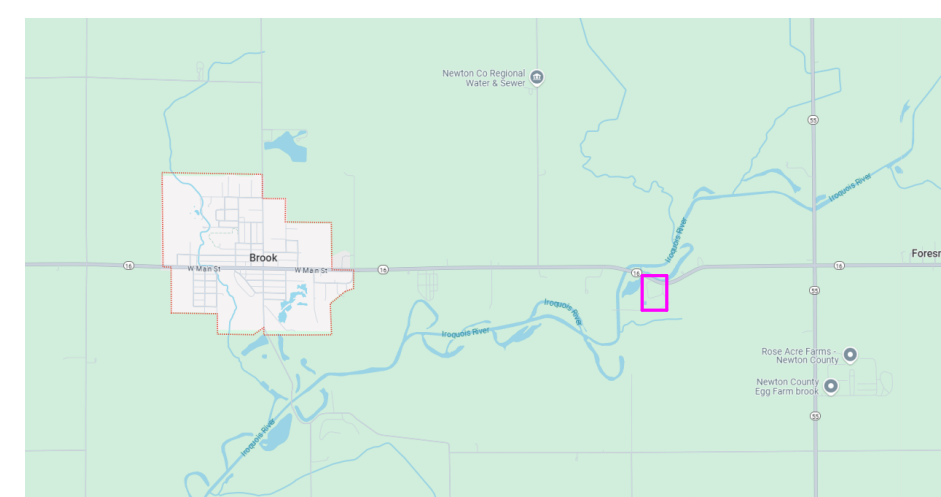
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Vicinity Map



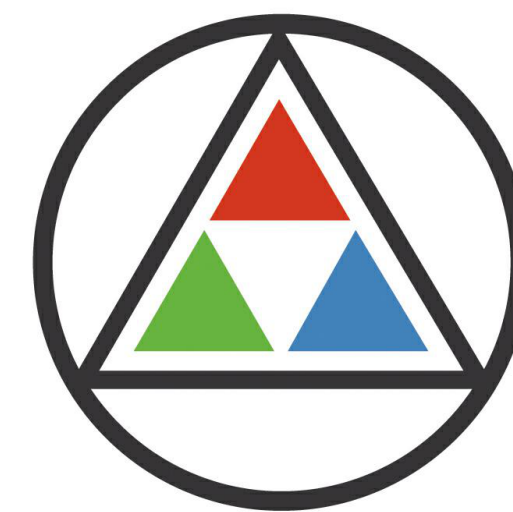
Thoroughfare Map



Sarah K. Hempstead



Kyle E. Miller



SCHMIDT
ASSOCIATES

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415 Massachusetts Ave., Indianapolis, IN 46204
731 Brent St. #203, Louisville, KY 40204

NEWTON COUNTY BOARD OF COMMISSIONERS

Hazelden Estate Restoration - Utility Site Preparation - Bid Package 2

COVER SHEET

CG-000.2

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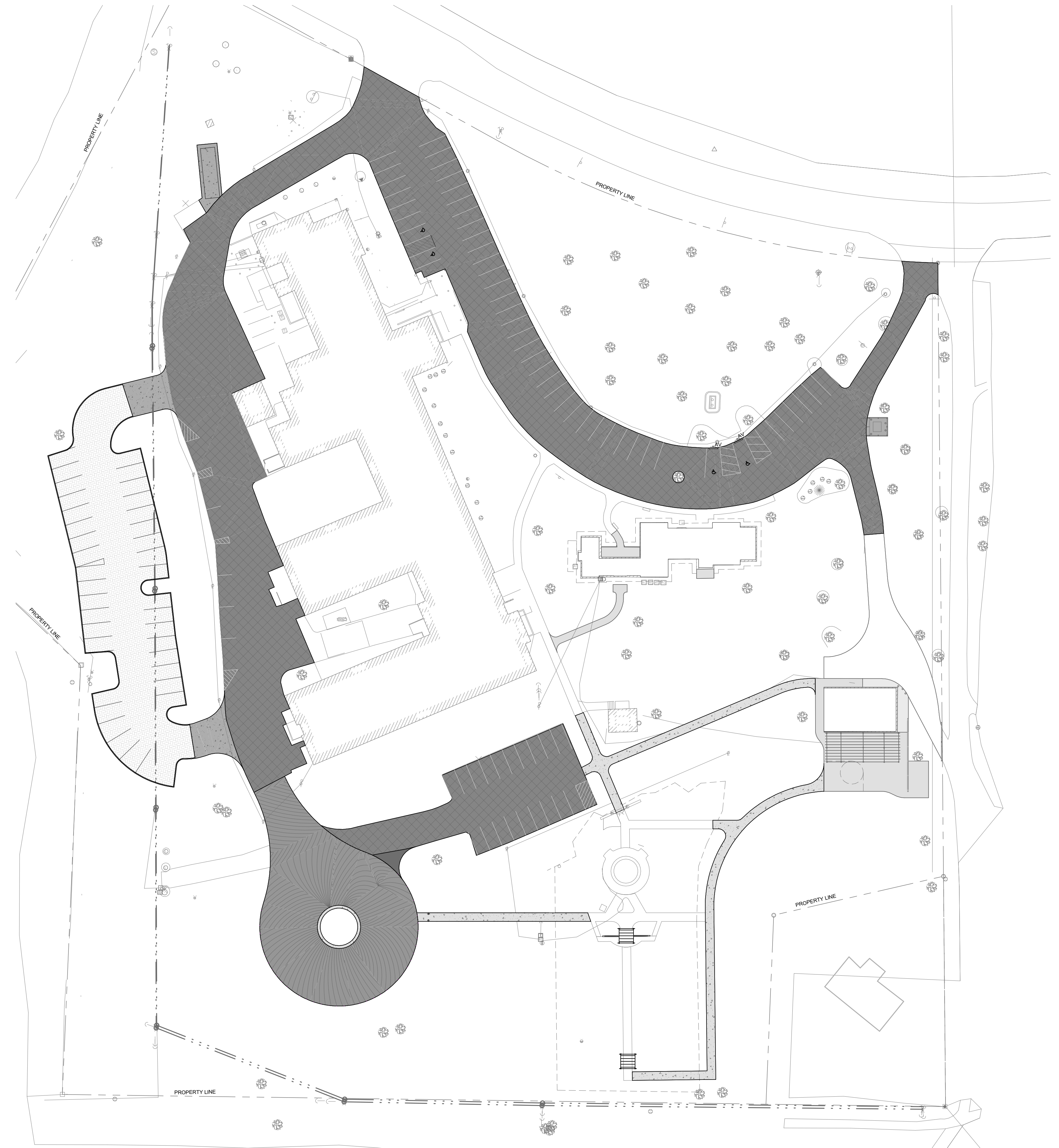
1

D

C

B

A



1 OVERALL SITE LAYOUT PLAN
1" = 40'-0"

GENERAL LAYOUT NOTES

1. REFERENCE C-001 FOR GENERAL LAYOUT PLAN NOTES.
2. NORTHING AND EASTING COORDINATES ARE STATE PLANE COORDINATES BASED ON A TOPOGRAPHIC SURVEY. REFER TO SURVEY DRAWINGS FOR HORIZONTAL CONTROL POINT DATA.
3. ALL EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.

SUPPLEMENTAL SITE WORK LAYOUT LEGEND

	HEAVY DUTY ASPHALT. SEE DETAIL 1C/CL501.5 AND SPECS
	STANDARD DUTY CONCRETE. SEE DETAIL 1A/CL501.5 AND SPECS
	HEAVY DUTY CONCRETE. SEE DETAIL 1B/CL501.5 AND SPECS
	SEAL COAT. SEE SPECS
	PERMEABLE PAVERS. SEE DETAIL 5A/CL501.5 AND SPECS



SCHMIDT ASSOCIATES
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Project No. 2021-036.GAH
Project Date 01.08.2026
Produced SG/CF



Kyle E. Miller

These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Architect.

#	Revision	Date
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#	Revision	Date

3705 IN-16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - COMPOSITE SITE LAYOUT

COMPOSITE SITE LAYOUT

G-001

5

4

3

2

1

General Site Notes

- See Survey sheets for all topographic and survey information. Schmidt Associates, Inc. claims no responsibility for the accuracy of the information provided in these surveys.
- All damages to existing improvements, excavation and/or removal of any and all existing improvements during construction shall be kept to a minimum. Any existing improvements damaged during construction shall be restored, reconstructed or replaced by the Contractor at his expense.
- It is the responsibility of the Contractor to remove all mud, dirt, gravel, and any other materials trucked onto any public or private streets or sidewalks.
- Provide smooth transition from new areas to existing features as necessary.
- The Contractor shall submit samples of materials and finishes to the Landscape Architect/Engineer for approval prior to ordering and installation as outlined in the specifications.
- All areas where proposed asphalt pavement meets the existing pavement, the existing pavement edge shall be properly sealed with a tack coat material.

General Erosion Control Notes

- All erosion and sediment control practices shall be in accordance with the Indiana Handbook for Erosion Control in Developing Areas from the Division of Soil Conservation, Indiana Department of Natural Resources.
- A copy of this Erosion and Sediment Control Plan and the Erosion and Sediment Control Report shall be available at the Project Site throughout the entire construction period.
- The Contractor shall control waste, garbage, debris, wastewater, and other substances on the site so they will not be transported from the site by the action of wind, storm water runoff, or other forces. Proper disposal or management of all wastes and unused building material appropriate to the nature of the waste or material is required.
- Public or private roadways shall be kept clear of accumulated sediment. All sediment that is cleared must be returned to the likely point of origin or other suitable location. Clearing of large amounts of sediment shall not include flushing the area with water.
- Minimize the exposure of bare earth by limiting the work area to that necessary to perform the Work, and by proper scheduling of manpower and equipment.
- All erosion and sediment control measures shall be inspected, cleaned, and maintained following each storm event.
- Wherever possible, maintain existing vegetative cover. Use non-vegetative material including mulch, erosion blankets, or stone to control erosion from disturbed areas.
- All erosion and sediment control measures shown shall be maintained throughout construction. An installed practice shall not be removed until the area of the Work contributing runoff to the practice has been completed and stabilized, or until sufficient additional measures have been installed to provide proper protection to the site and surrounding area from erosion and sedimentation.

General Site Demolition Notes

- Removal of existing concrete and asphalt pavement indicated on plans shall include all aggregate base and Subgrade materials. Sawcut all existing paved areas to be removed. All cuts shall be clean, neat and true to line. Where plant material is proposed to replace removed concrete and asphalt, Contractor shall remove all non-organic or toxic matter that would interfere with proposed plant material. Contractor shall dispose of excavated material off-site at approved disposal sites only, unless shown otherwise.
- Demolish and completely remove from site, existing underground utilities indicated to be removed. Coordinate with Utility Companies and Owner for shut-off services, if lines are active. Any Damage to existing utility lines shall be repaired at the expense of the contractor.
- All underground utilities or structures in proposed pavement or building areas requiring removal shall be backfilled completely with approved engineered granular material suitable to the Architect.
- Refer to all other series drawings for site demolition work to be performed by other contractors.
- Contractor shall be responsible for the protection of existing trees and shrubs designated to remain within the Limits of Construction to the extent of the drip lines. Existing trees shall be fenced off and no materials or heavy equipment shall encroach fenced areas during demolition and construction.
- Contractor shall remove and dispose of all debris in a legal manner.
- Contractor shall maintain dust control with water at all times. Meter installation and water costs are the responsibility of the Contractor.
- The use of explosives is prohibited on this project.
- Catch basins, sewer inlets, etc. are to be protected from debris and sedimentation during demolition. Install filter fabric under any inlet castings on or off site that receive storm water from the site before any demolition or earthwork activities commence.
- Verify all trees to be removed with the Architect in field prior to felling.
- If any discrepancies occur between Contract Documents and site condition during demolition, contact Architect immediately.

General Utility Notes

- All known utility locations are approximate. The Contractor shall be responsible for determining the exact location of the existing utilities (public and private) and repairing any damage done to the utilities during probing or construction. To obtain field locations of existing underground utilities, call Indiana Underground Cable locations 1.800.382.5544 / 811 and a private utility locate company.
- The contractor shall notify all appropriate utility companies at least 48 hours prior to the commencement or resumption of work that could potentially disrupt the respective utility service of infrastructure.
- Unless noted otherwise, the contractor is responsible for the relocation of all existing utilities which are in conflict with the proposed site improvements.
- Contractor shall coordinate with Utility Companies for the relocation of utilities on site or crossing the site to service adjacent properties. Do not interrupt existing utilities serving facilities occupied and used by Owner or others, during occupied hours, except when permitted.
- Coordinate all utilities with all other series drawings.
- All costs incurred in coordination of all new utility services shall be the responsibility of the Contractor.
- All connections to existing utilities shall be verified with the Architect and coordinated with respective Utility prior to beginning Work.
- A layer of filter fabric shall be placed under each inlet casting during the construction period.
- Maintain 10 feet (horizontal) and 18 inches (vertical) separation between water mains and storm/sanitary sewers. This measurement shall be outside to outside of pipes.

General Site Staking and Layout Notes

- Do not scale drawing for determining exact layout information.
- Contractor shall stake and verify all dimensions in field prior to initiation of any construction. Review any discrepancies immediately with the Architect for resolution.
- All layout components shall be staked out in the field by the Contractor. Obtain Architect approval before starting construction.
- All dimensions in curbed areas shall be to face of curb. All dimensions in areas without curbing shall be to edge of pavement. All dimensions at integral curb and walk shall be to face of curb. All dimensions from building shall be from face of building.
- All dimensions are parallel and perpendicular to base lines, property lines or building lines unless otherwise noted.
- All radii indicated shall be formed as circular arcs. All curves and arcs shall intersect other curves and lines at points of tangency to form smooth transitions unless clearly shown otherwise.
- Where not shown, sidewalk and retaining wall expansion joints shall be 30'-0" O.C. and control joints 5'-0" O.C. maximum spacing. Curb expansion joints shall be 50'-0" O.C. and control joints shall align with adjacent sidewalk where applicable, otherwise 5'-0" maximum spacing shall be used.
- All walks shall receive medium broom-swept finish perpendicular to direction of traffic flow unless otherwise noted. Coordinate junctions with Landscape Architect/Engineer in field, unless otherwise noted.
- Accessible ramps and signage shall be in accordance with Federal, State, County, City, and Local codes whichever has jurisdiction. See Site Plans for locations and Site Details for specifications.

Abbreviations

ACCEL	acceleration
AD#	addendum
ADJ	adjacent
ALT	alternate
APRX	approximately
A-SERIES	architectural
CAL	caliper
CE	civil engineer
CIP	cast-in-place
CJ	control joint
CL	center line
CLR	clear
CMU	concrete masonry unit
CONC	concrete
DECEL	deceleration
DENM	demolition
DET	detail
DIA	diameter
EJ	expansion joint
EL	elevation
EQ	equal distance
E-SERIES	electrical
FFE	finish floor elevation
FOW	face of wall
FT	foot
GA	gauge
HT	height
HDPE	high-density polyethylene
HORIZ	horizontal
IN/ LN FT	inches per linear foot
ID	inside diameter/ dimension
INV	invert
LA	landscape architect
MAX	maximum
MED	medium
MFG	manufacturer
MIN	minimum
MH	manhole
M-SERIES	mechanical
N/A	not applicable
OA	overall
OC	on center
OD	outside diameter
PED	pedestrian
PERP	perpendicular
POB	point of beginning
PVC	polyvinyl chloride
R	radius
RCP	reinforced concrete pipe
REF	reference
REINF	reinforcing
REQD	required
ROW	right-of-way
SAN	sanitary
SHT	sheet
SIM	similar
SLCPP	smooth lined corrugated plastic pipe
SPECS	specifications
SQ	square
STRM	storm sewer
STRUCT	structure
S-SERIES	structural
THK	thick
TBS	to be selected
TYP	typical
T-SERIES	telecommunications
VERT	vertical
VIF	verify in field
W	width
W/	with
W/O	without
WWF	woven wire fabric
WWM	woven wire mesh

Symbol Legend

TITLE MARK	
DEMOLITION NOTE	
PLANT NOTE	
PLANT TAG	
NORTH ARROW	
ELEVATION TARGET	
PROPOSED CONTOUR	
PROPOSED SPOT ELEVATION NOTE AND MARK	
TOP OF CURB	
EDGE OF PAVEMENT	
TOP OF CURB RIM	
MATCH EXISTING ELEVATION	
STORM STRUCTURE NUMBER	
SANITARY SEWER STRUCTURE NUMBER	
COORDINATE REFERENCE POINT	
REVISION CLOUD	

General Site Grading and Drainage Notes

- Contractor shall verify all existing grades in field and report any discrepancies immediately to the Architect.
- Contractor shall provide positive drainage in all areas. Paving Contractor shall test for any ponding conditions after installation and correct. See specifications.
- Contractor shall coordinate all earth moving activities with all existing and new utilities. Verify cover requirements with Utility Contractors and/or Utility Companies so not to cause damage.
- Contractor shall stabilize all earthen areas disturbed during construction.
- Contractor shall stabilize any stockpiled topsoil against erosion within 15 days of stockpiling.
- Provide smooth transition from new areas to existing features as necessary.
- Prior to finish grading, Contractors shall maintain all water draining off site consistent with Drawings. No water shall be diverted onto adjoining properties during any part of the grading process.

General Traffic Control Notes

- All signs, standards, and barricades shall conform to INDOT Standard Detail Sheets and the Indiana Manual on Uniform Traffic Control Devices.
- It is the responsibility of the Contractor to coordinate planned construction activities with all Highway Departments and Street Departments prior to construction.
- If construction activities are expected to disrupt normal off-site traffic flow, the Contractor shall be responsible for coordinating with all Highway Departments and Street Departments and prepare all maintenance of traffic plans as required.
- Normal site traffic circulation to be maintained during construction. Contractor to erect barricades as needed to protect construction area from normal traffic patterns around the existing facilities.
- If existing traffic circulation patterns around existing facilities must be disrupted or blocked, Contractor shall submit a traffic plan and obtain written approval from Architect before proceeding.



Project No.	2021-036.GAH
Project Date	01.08.2026
Produced	SG



These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Architect.

#	Revision	Date

3705 IN-16
Brook, IN 47922

NEWTON
COUNTY BOARD
OF
COMMISSIONERS

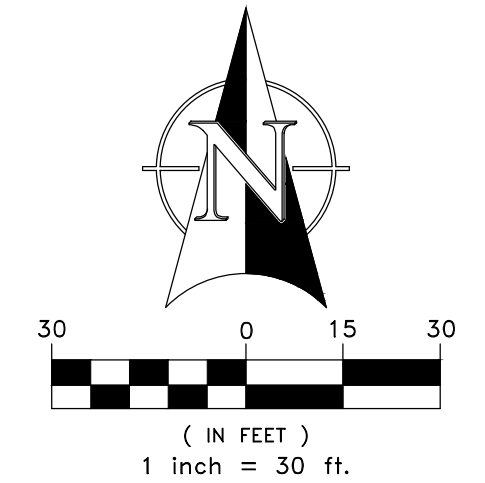
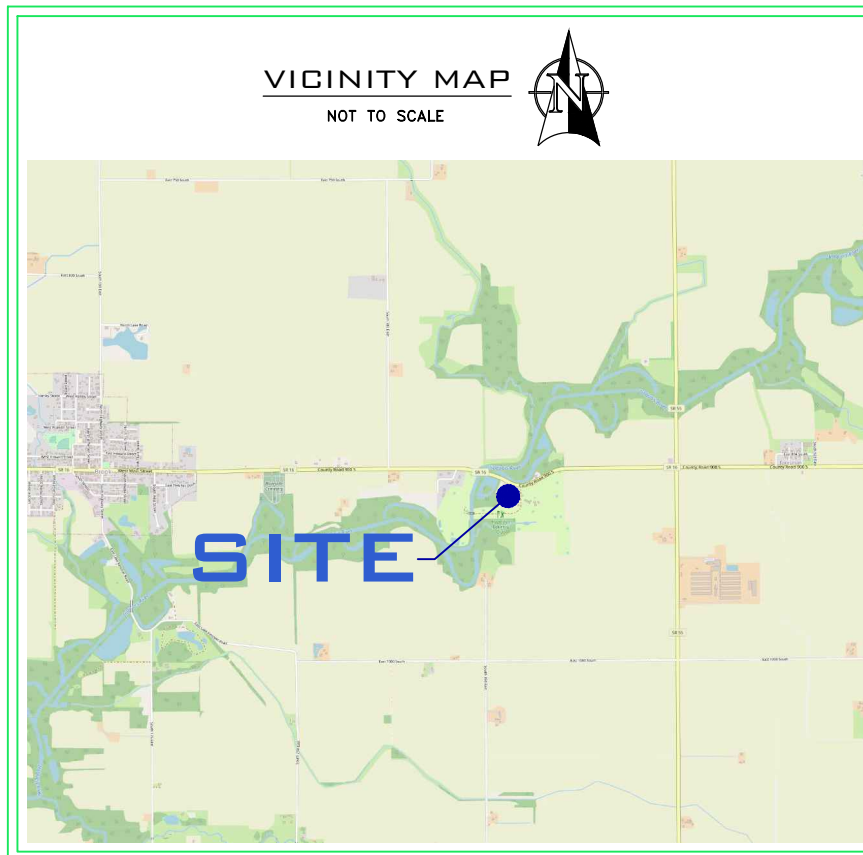
HAZELDEN
ESTATE
RESTORATION -
UTILITY SITE
PREPARATION -
BID PACKAGE 2

SITE GENERAL
NOTES AND
ABBREVIATIONS
C-001.2



Know what's below.
Call before you dig.

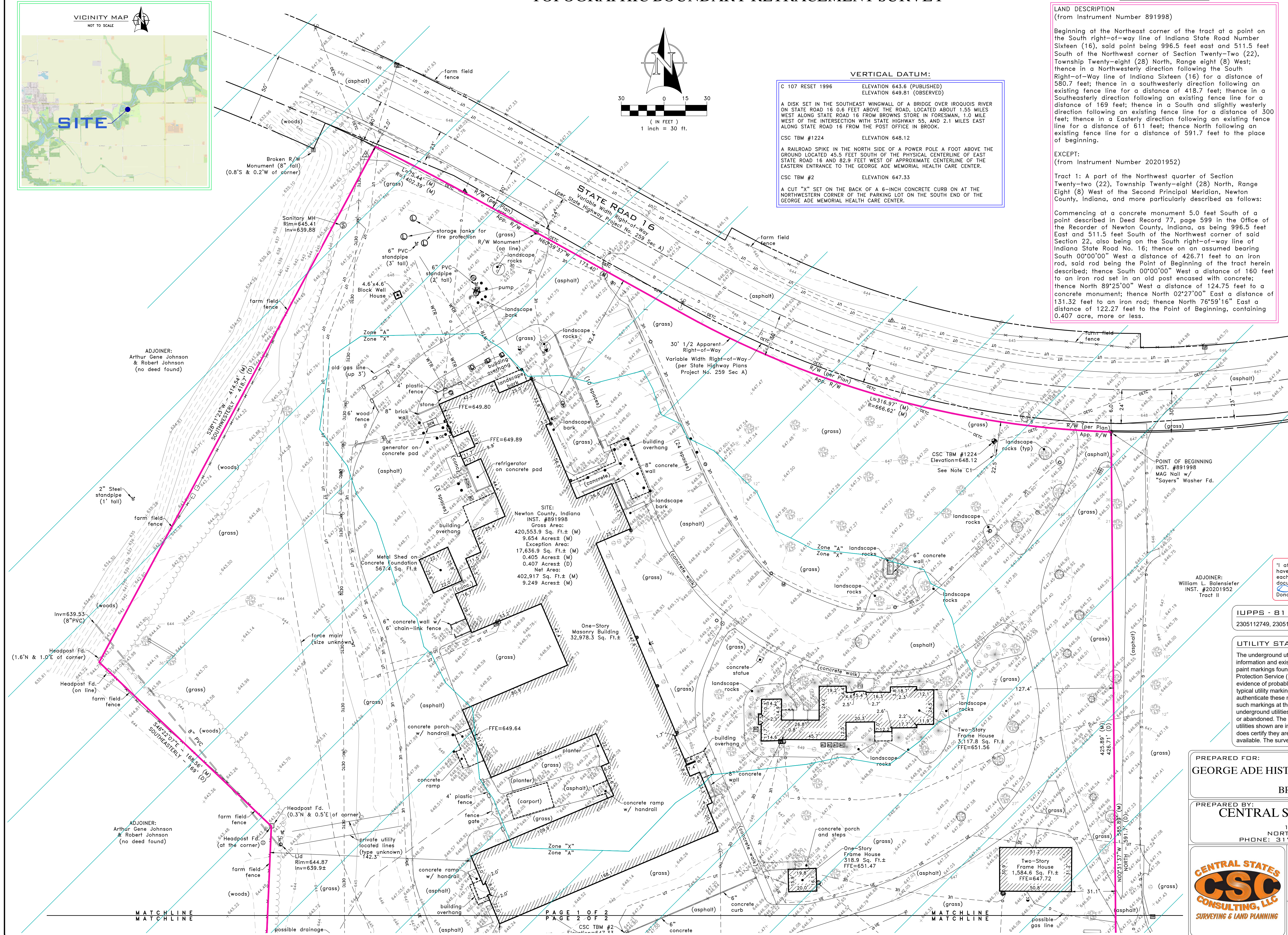
TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY



VERTICAL DATUM:
 C 107 RESET 1996 ELEVATION 643.6 (PUBLISHED)
 ELEVATION 649.81 (OBSERVED)
 A DISK SET IN THE SOUTHEAST WINGWALL OF A BRIDGE OVER IROQUOIS RIVER ON STATE ROAD 16 0.6 FEET ABOVE THE ROAD, LOCATED ABOUT 1.55 MILES WEST ALONG STATE ROAD 16 FROM BROWNS STORE IN FORESMAN, 1.0 MILE WEST OF THE INTERSECTION WITH STATE HIGHWAY 55, AND 2.1 MILES EAST ALONG STATE ROAD 16 FROM THE POST OFFICE IN BROOK.
 CSC TBM #1224 ELEVATION 648.12
 A RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE A FOOT ABOVE THE GROUND LOCATED 45.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF EAST STATE ROAD 16 AND 82.9 FEET WEST OF APPROXIMATE CENTERLINE OF THE EASTERN ENTRANCE TO THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.
 CSC TBM #2 ELEVATION 647.33
 A CUT "X" SET ON THE BACK OF A 6-INCH CONCRETE CURB ON AT THE NORTHWESTERN CORNER OF THE PARKING LOT ON THE SOUTH END OF THE GEORGE ADE MEMORIAL HEALTH CARE CENTER.

LAND DESCRIPTION
 (from Instrument Number 891998)
 Beginning at the Northeast corner of the tract at a point on the South right-of-way line of Indiana State Road Number Sixteen (16), said point being 996.5 feet east and 511.5 feet South of the Northwest corner of Section Twenty-Two (22), Township Twenty-eight (28) North, Range eight (8) West; thence in a Northwesterly direction following the South Right-of-Way line of Indiana Sixteen (16) for a distance of 580.7 feet; thence in a southwesterly direction following an existing fence line for a distance of 418.7 feet; thence in a Southeastery direction following an existing fence line for a distance of 169 feet; thence in a South and slightly westerly direction following an existing fence line for a distance of 300 feet; thence in an Easterly direction following an existing fence line for a distance of 611 feet; thence North following an existing fence line for a distance of 591.7 feet to the place of beginning.
 EXCEPT:
 (from Instrument Number 20201952)
 Tract 1: A part of the Northwest quarter of Section Twenty-two (22), Township Twenty-eight (28) North, Range Eight (8) West of the Second Principal Meridian, Newton County, Indiana, and more particularly described as follows:
 Commencing at a concrete monument 5.0 feet South of a point described in Deed Record 77, page 599 in the Office of the Recorder of Newton County, Indiana, as being 996.5 feet East and 511.5 feet South of the Northwest corner of said Section 22, also being on the South right-of-way line of Indiana State Road No. 16; thence on an assumed bearing South 00°00'00" West a distance of 426.71 feet to an iron rod, said rod being the Point of Beginning of the tract herein described; thence South 00°00'00" West a distance of 160 feet to an iron rod set in an old post encased with concrete; thence North 89°25'00" West a distance of 124.75 feet to a concrete monument; thence North 02°27'00" East a distance of 131.32 feet to an iron rod; thence North 76°59'16" East a distance of 122.27 feet to the Point of Beginning, containing 0.407 acre, more or less.

LEGEND:	
SYMBOL	DESCRIPTION:
—/—	SIGN / TWO POST SIGN
⊗	WATER VALVE/FIRE HYD/METER
⊕	TELE/FIBER OPTIC/GAS MARKER
⊙	GAS METER / VALVE
□	CLEAN-OUT
⊞	ELEC. METER BOX/TRANSFORMER
⊞	ELEC. / TELEPHONE PEDESTAL
⊞	GUARD POST/POST WITH LIGHT
⊞	AIR CONDITIONER / GENERATOR
⊞	MAGNAIL SET/FOUND
⊞	REBAR SET/FOUND
⊞	SQUARE / ROUND / CURB INLET
⊞	TRAFFIC/COMBO/ POWER POLE
⊞	LIGHT POLE - SQUARE / ROUND
⊞	CONIFEROUS TREE & SIZE
⊞	DECIDUOUS TREE & SIZE
⊞	DRAINAGE /SANITARY MANHOLE
⊞	COMBINATION/MISC. LID MANHOLE
⊞	BEEHIVE ROUND/SQUARE INLET
⊞	GUY WIRE / ROUND LIGHT
---	UNDG. WATER LINE
---	UNDG. GAS LINE
---	UNDG. TELEPHONE LINE
---	UNDG. ELECTRIC LINE
---	OVERHEAD ELE. & TEL
---	OVERHEAD ELE TEL & CAB
---	OVERHEAD ELECTRIC
---	vitrified clay pipe
---	reinforced concrete pipe
---	polyethylene coated pipe
---	high-density polyethylene pipe
---	ductile iron pipe



"I affirm, under penalties for perjury, I have taken reasonable care to reduce each social security number in this document, unless required by law."
 Donald R. Mossan

IUPPS - B11 TICKET REQUEST NUMBER(S):
 2305112749, 2305112779

UTILITY STATEMENT:
 The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of point markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The point markings shown herein as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

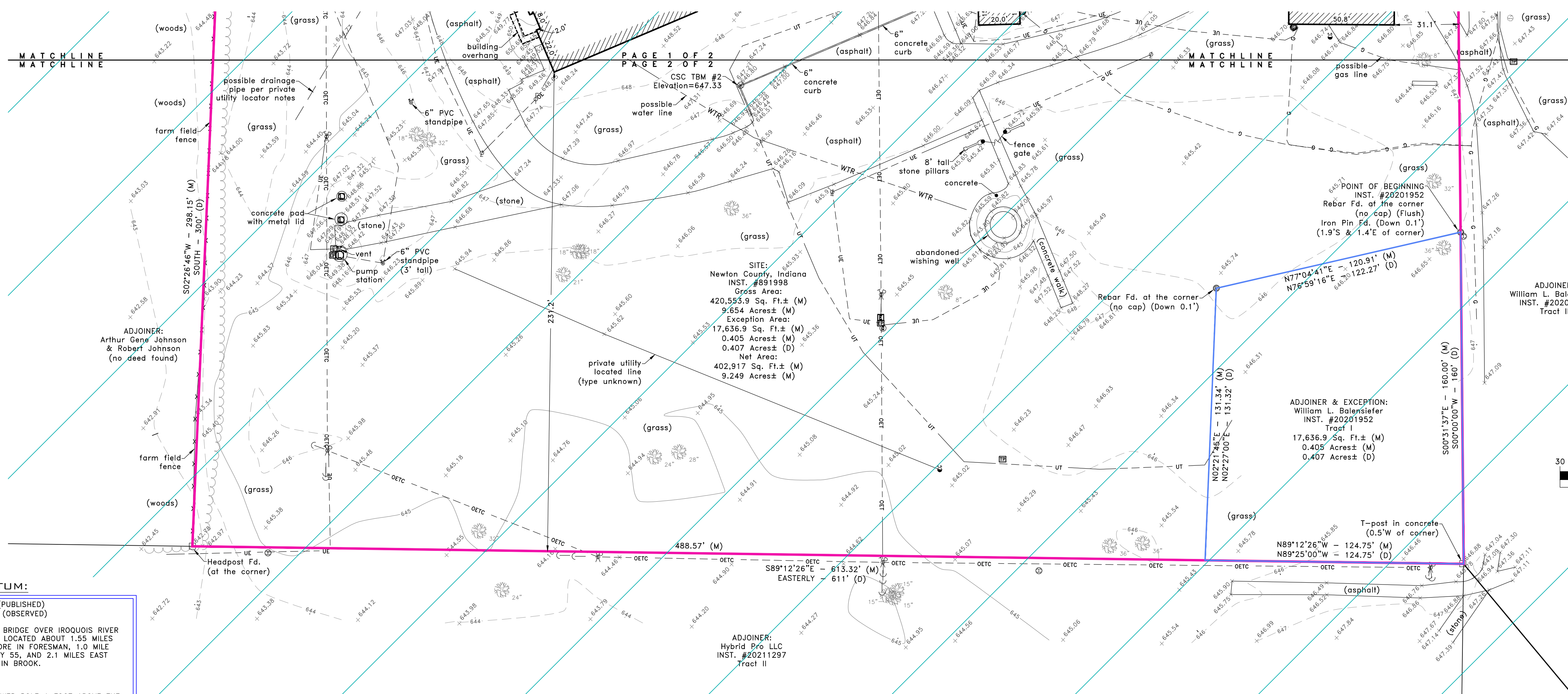
PREPARED FOR:
 GEORGE ADE HISTORIC PRESERVATION COMMISSION
 P.O. BOX 93
 BROOK, INDIANA 47922

PREPARED BY: DONALD R. MOSSAN
CENTRAL STATES CONSULTING, LLC
 13 WEST PEARL STREET
 NORTH SALEM, INDIANA 46165
 PHONE: 317-858-8662 FAX: 317-342-2857

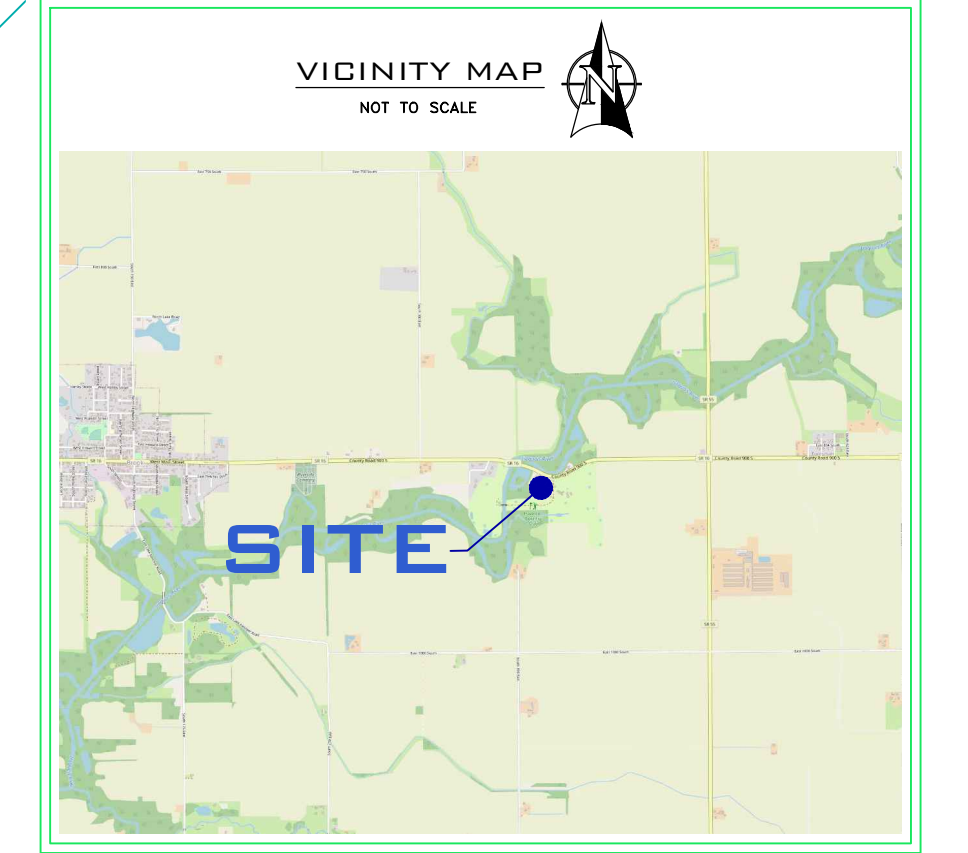
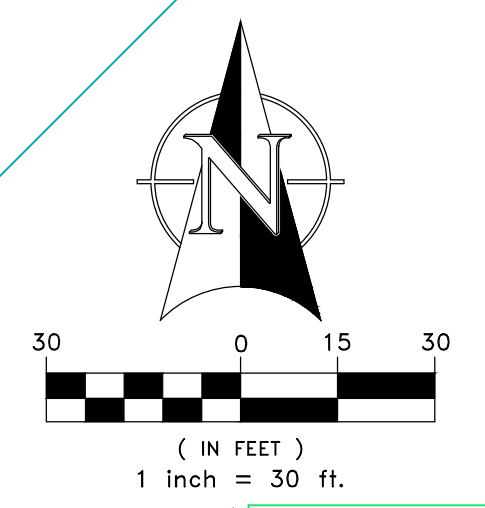
CENTRAL STATES CONSULTING, LLC
TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
 3623 STATE ROAD 16
 BROOK, INDIANA 47922

DATE: 06-12-2023
DWN. BY: JLM
CHKD. BY: DRM
SCALE: 1" = 30'
PROJECT NUMBER: 23-029
SHEET 1 OF 2

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY



LEGEND:	
— / —	DESCRIPTION:
— / —	SIGN / TWO POST SIGN
— / —	WATER VALVE/FIRE HYD/METER
— / —	TELE/FIBER OPTIC/GAS MARKER
— / —	GAS METER / VALVE
— / —	CLEAN-OUT
— / —	ELEC. METER BOX/TRANSFORMER
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— / —	UNDG. TELEPHONE LINE
— / —	UNDG. ELECTRIC LINE
— / —	OVERHEAD ELE. & TEL
— / —	OVERHEAD ELE TEL & CAB
— / —	OVERHEAD ELECTRIC
— / —	VCP
— / —	RCP
— / —	PVC
— / —	HDPE
— / —	DI



VERTICAL DATUM:

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ELEVATION 649.81 (OBSERVED)

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SURVEYOR'S REPORT

In accordance with Title 865, Article 1.1, Chapter 12, Sections 1 through 19 of the Indiana Administrative Code, the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established on this survey as a result of:

- A) Variances in the reference monuments;
- B) Discrepancies in record descriptions and plats;
- C) Inconsistencies in lines of occupation and;
- D) Random errors in measurement (Relative Positional Accuracy)

There may be unwritten rights associated with these uncertainties. The client should assume there is an amount of uncertainty along any line equal in magnitude to the discrepancy in the location of the lines of possession from the surveyed lines.

There may be differences of deed dimensions versus measured dimensions along the boundary lines shown hereon and, likewise, there may be found survey markers near, but not precisely at, some boundary corners, in cases where the magnitude of these differences are less than the Relative Positional Accuracy stated below and less than the uncertainty identified for the reference monumentation (discussed below), the differences may be considered insignificant and are shown only for purposes of mathematical closure. Such differences that are greater than the Relative Positional Accuracy and the uncertainty in reference monumentation should be considered worthy of notice and are therefore further discussed below.

This survey and report are based in part upon opinions formed in accordance with an Indiana Land Surveyor's responsibility to conduct a survey in accordance with "law or a precedent" (865 IAC 1-12-11(5), Rules of the Indiana State Board of Registration for Land Surveyors). Since Indiana has no statutes addressing how to resolve boundary lines, a solution based on principles derived from common law precedent must be relied upon as the basis for a boundary resolution.

Unless otherwise noted or depicted hereon, there is no evidence of occupation along the perimeter lines of the subject tract. All survey monuments set or found this survey are flush with existing grade unless otherwise noted.

A.) This is a retracement survey of the tract of land granted to Newton County, Indiana, in the Quit-Claim Deed recorded as Instrument Number 891998 in the Office of the Recorder of Newton County, Indiana. The herein surveyed property is within the Northwest Quarter of Section 22, Township 28 North, Range 8 West of the Second Principal Meridian, Iroquois Township, Newton County, Indiana.

1.) The Northeast Corner of said Section 22 is a Harrison Monument found at the surface. The Northwest Corner of Section 21, Township 28 North, Range 8 West is a Harrison Monument found at the surface. The aforementioned corners were found by references supplied by the Office of the Surveyor of Newton County, Indiana and accepted as prima facie evidence for purposes of this survey and was used to control the lines of the surveyed parcel. The Northwest Corner of said Section 22 was not found nor was there a reference for this corner. The deed for the surveyed property and its adjoiners all call out commencing at this corner. Since there was no corner found or located, the physical evidence of the property was used and held to determine the property lines.

2.) The centerline of State Road 16 was determined per the State Highway Plans, Project No. 259 Sec. A, dated 1931. The variable width right-of-way as determined per said State Highway Plans and is shown and dimensioned herein. The apparent right-of-way was determined as being 30-feet from the centerline of State Road 16 per physical monuments found along said apparent right-of-way line. The northern boundary of the surveyed property was held along said apparent right-of-way line. This is as much as 6.00 feet of uncertainty in the right-of-way line of thus the northern boundary line of the surveyed property. The State Highway Plans reference the Northwest Corner of said Section 21 and the Northeast Corner of said Section 22. This relationship between these two corners was used to determine the bearing of centerline of State Road 16.

B.) Record descriptions of the site were obtained from the Newton County Recorder's Office (latest research date: May 15, 2023) and mathematically retraced for the purpose of disclosing any gaps and/or overlaps between the lines of these surveyed parcels and their adjoiners. The following observations were found:

- 1.) There appear to be no gaps, gorges, or overlaps in the deeds of the surveyed property and its eastern and southern adjoiners. There was no deed found for the western adjoining property, thus I cannot determine whether a

gap, gorge, or overlap exists between the surveyed property and the western adjoiner.

2.) As previously stated, the northern boundary line of the surveyed property was held along the apparent right-of-way line of State Road 16. In the deed this distance along the right-of-way was stated to be 580.7 feet. I have measured the combined distances along the apparent right-of-way to be 565.81 feet, causing a discrepancy of 14.89 feet.

3.) The northernmost western boundary line of the surveyed property is described as being 418.7 feet along a fence line. I have measured this line to be 414.54 feet along remnants of a farm field fence, causing a discrepancy of 4.16 feet. The distance along this line from the variable width right-of-way line is 416.57 feet.

4.) The western boundary line of the surveyed property is described as being 169 feet along a fence line. I have measured this line to be 168.56 feet along a farm field fence, causing a discrepancy of 0.44 feet.

5.) The southernmost western boundary line of the surveyed property is described as being 300 feet along a fence line. I have measured this line to be 298.15 feet along a farm field fence, causing a discrepancy of 1.85 feet.

6.) The southern line of the surveyed property is described as being 611 feet along a fence line. I have measured this line to be 613.32 feet between a headpost on the western end and passing through a T-post in concrete near the eastern end. There is no longer a fence along this line at the time of the survey.

7.) The eastern boundary line of the surveyed property is described as being 591.7 feet along a fence line. I have measured this line to be 585.89 feet, causing a discrepancy of 5.81 feet. The location of this line was held per existing monumentation found along said line, a rebar found with no cap at the northeastern corner of the 0.407-acre tract and a MAG nail with a "Sayers" washer found on the apparent right-of-way line of State Road 16. The 5.81-foot discrepancy in this line appears to come from the 6.00-foot uncertainty in the location of the right-of-way line along State Road 16.

C.) A significant inconsistency in the lines of occupation was observed during this survey.

1.) There is a power pole with a guy wire and an overhead electric, telephone, and cable line encroaching as much as 22.5 feet onto the surveyed property, as shown herein. I have not been provided with an easement to allow this encroachment.

D) The Relative Positional Accuracy (Due to Random Errors in Measurement) of the corners of the subject tract established by this survey is within the specifications for an Urban Survey (0.07 feet + 50 ppm) as defined in IAC 865.

As a result of the above observations, it is my opinion that the uncertainties in the locations of the lines and corners established on this survey are as follows:

- Due to variances in reference monuments: 6.00 feet;
- Due to discrepancies in the record description: 14.89 feet;
- Due to inconsistencies in lines of occupation: 22.5 feet;
- Due to random errors in measurement: 0.07 feet +/- 50 ppm

Mailing Address of Site: 3623 East State Road 16, Brook, Indiana 47922

Basis of Bearing System: The bearing of the North Line of Section 21, Township 28 North, Range 8 West and the North Line of Section 22, Township 28 North, Range 8 West is North 89 degrees 47 minutes 53 seconds East based upon GPS observations taken at the time of the survey in Indiana State Plane, West Zone, NAD83.

NOTE: This plat of a Boundary Retracement Survey represents the conditions at the date of latest field activity.

NOTE: According to the FEDERAL EMERGENCY MANAGEMENT AGENCY, Flood Insurance Rate Map Number 1811C0280D with an effective date of December 16, 2014, this site lies within Zone "A" (Special flood hazard areas without base flood elevations), and Zone "X" (Areas of 500-year flooding, areas of 100-year flood with average depths of less than 1 foot or with drainage areas of less than 1 square mile; and areas protected by levees from 100-year flood).

Date of Latest Field Activity: May 19, 2023

This Survey was performed without reference to a title company, and it may or may not reveal all of the facts associated with the site.

There are no: (i) encroachments upon the subject property by improvements on adjacent property; (ii) encroachments on adjacent

property, streets or alleys by improvements on the subject property; (iii) no party walls; or (iv) no visible and apparent conflicts or protrusions except as shown herein.

I hereby certify to George Ade Historic Preservation Commission that this survey was conducted under my direct supervision and that, to the best of my knowledge and belief, conforms to the requirements contained within Title 865, Article 1, Chapter 12, of the Indiana Administrative Code for a RETRACEMENT SURVEY.

Date: June 8, 2023

Donald R. Mossion
Donald R. Mossion
State of Indiana
Professional Surveyor No. 9600013



"I affirm, under penalties for perjury, I have taken reasonable care to read each social security number in this document, unless required by law."
Donald R. Mossion

IUPPS - B11 TICKET REQUEST NUMBER(S):
2305112749, 2305112779

UTILITY STATEMENT:

The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of paint markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The paint markings shown hereon as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

PREPARED FOR:
GEORGE ADE HISTORIC PRESERVATION COMMISSION
P.O. BOX 93
BROOK, INDIANA 47922

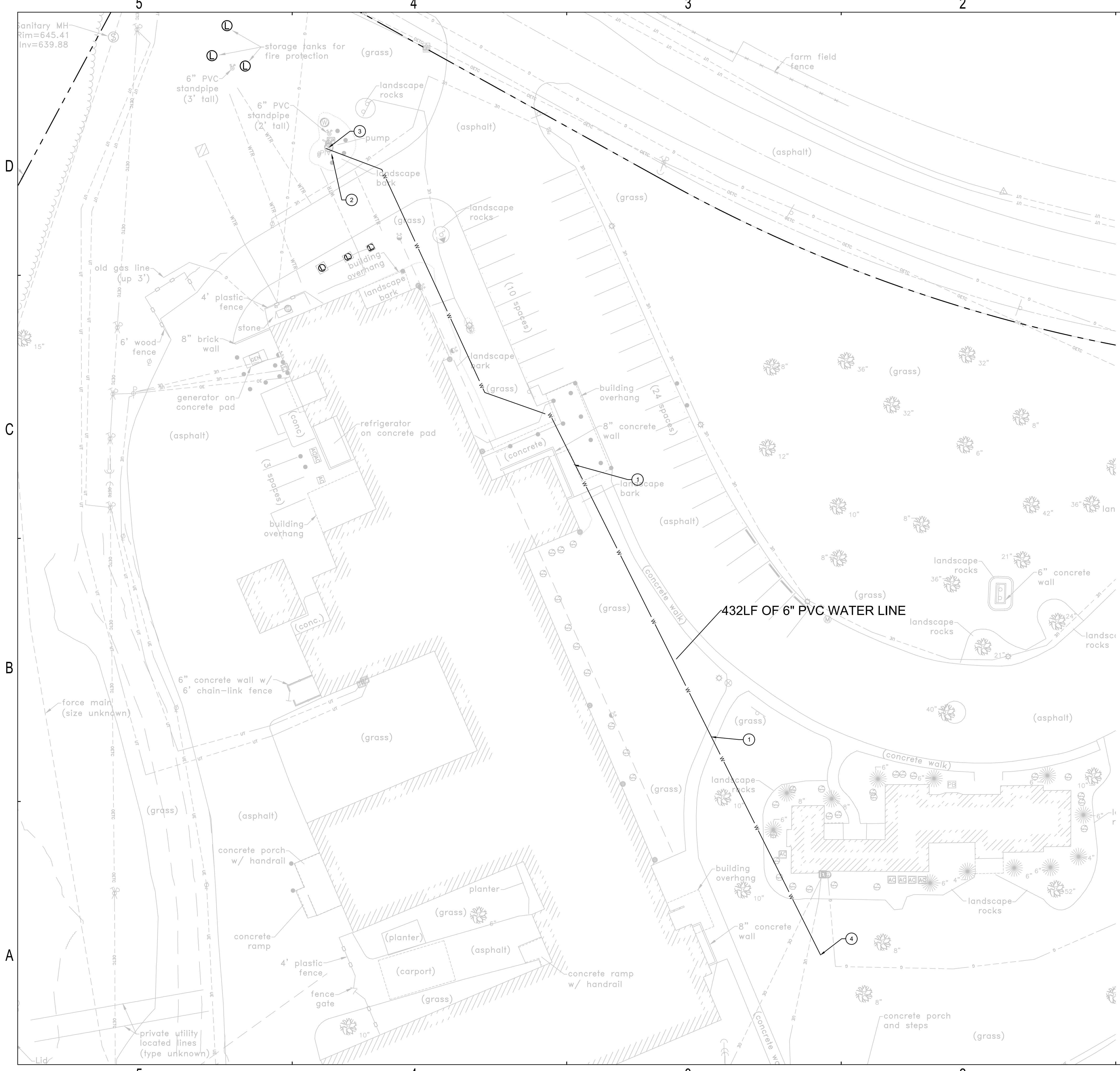
PREPARED BY: DONALD R. MOSSION
CENTRAL STATES CONSULTING, LLC
P.O. BOX 4
13 WEST PEARL STREET
NORTH SALEM, INDIANA 46165
PHONE: 317-858-8662 FAX: 317-342-2857

CENTRAL STATES CONSULTING, LLC
SURVEYING & LAND PLANNING

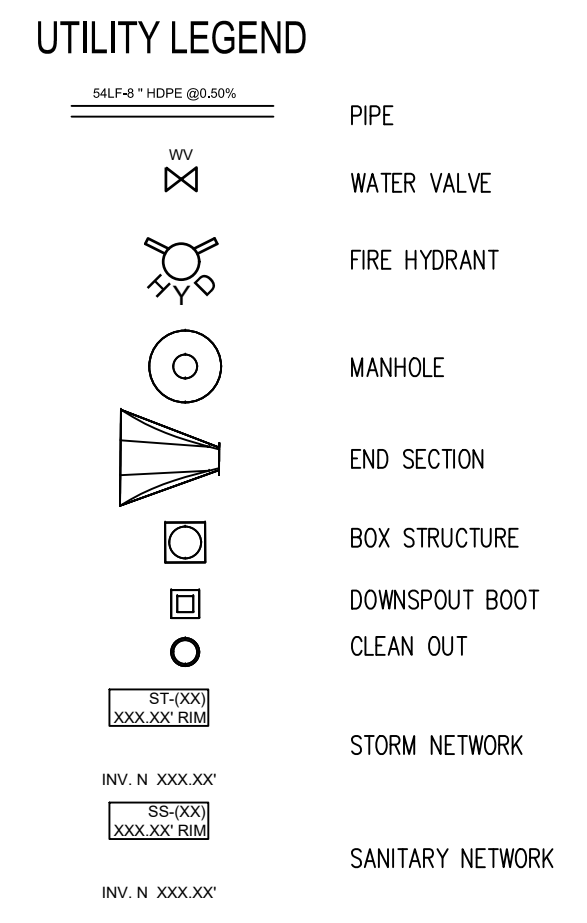
TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
3623 STATE ROAD 16
BROOK, INDIANA 47922

DATE: 06-12-2023
DWN. BY: JLM
CHKD. BY: DRM
SCALE: 1" = 30'

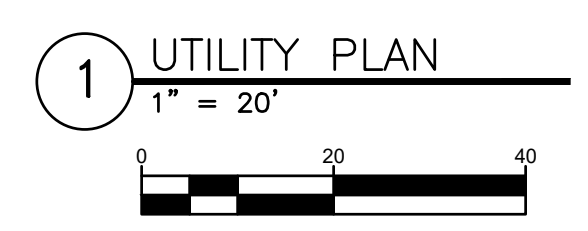
PROJECT NUMBER: 23-029
SHEET 2 OF 2



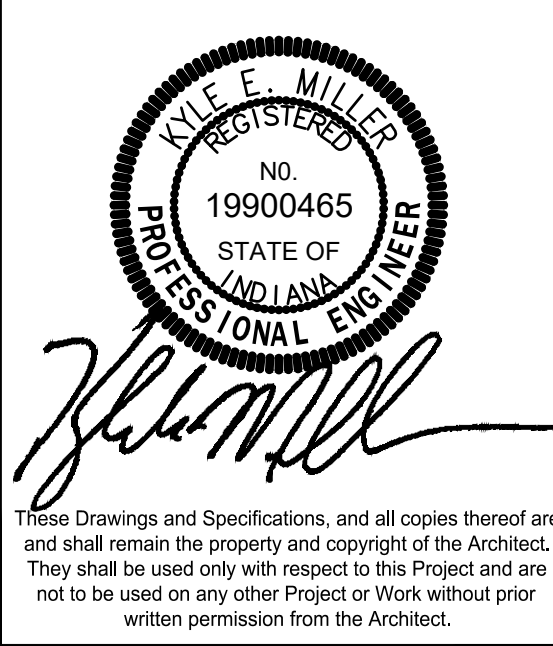
- GENERAL UTILITIES NOTES**
- IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
 - ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
 - COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER PAVED AREAS. SEE SPECIFICATIONS.
 - PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
 - ALL EXISTING PIPES INVERTS ARE APPROXIMATE. VERIFY ALL INVERTS IN FIELD. IF INVERTS DO NOT MATCH THE PLAN, CONTACT THE ARCHITECT.



- UTILITIES KEY NOTES**
- BORE WATER LINE UNDER ALL EXISTING PAVEMENT
 - INSTALL VALVE ON EXISTING WATER LINE
 - WET TAP EXISTING WATER LINE. FIELD VERIFY EXISTING LINE SIZE AND LOCATION
 - INSTALL VALVE FOR FUTURE CONNECTION



Project No. 2021-036.GAH
Project Date 01.08.2026
Produced TP



#	Revision	Date

3705 IN-16
Brook, IN 47922

KEY PLAN

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN ESTATE
RESTORATION -
UTILITY SITE
PREPARATION -
BID PACKAGE 2

UTILITY PLAN
CU101.2

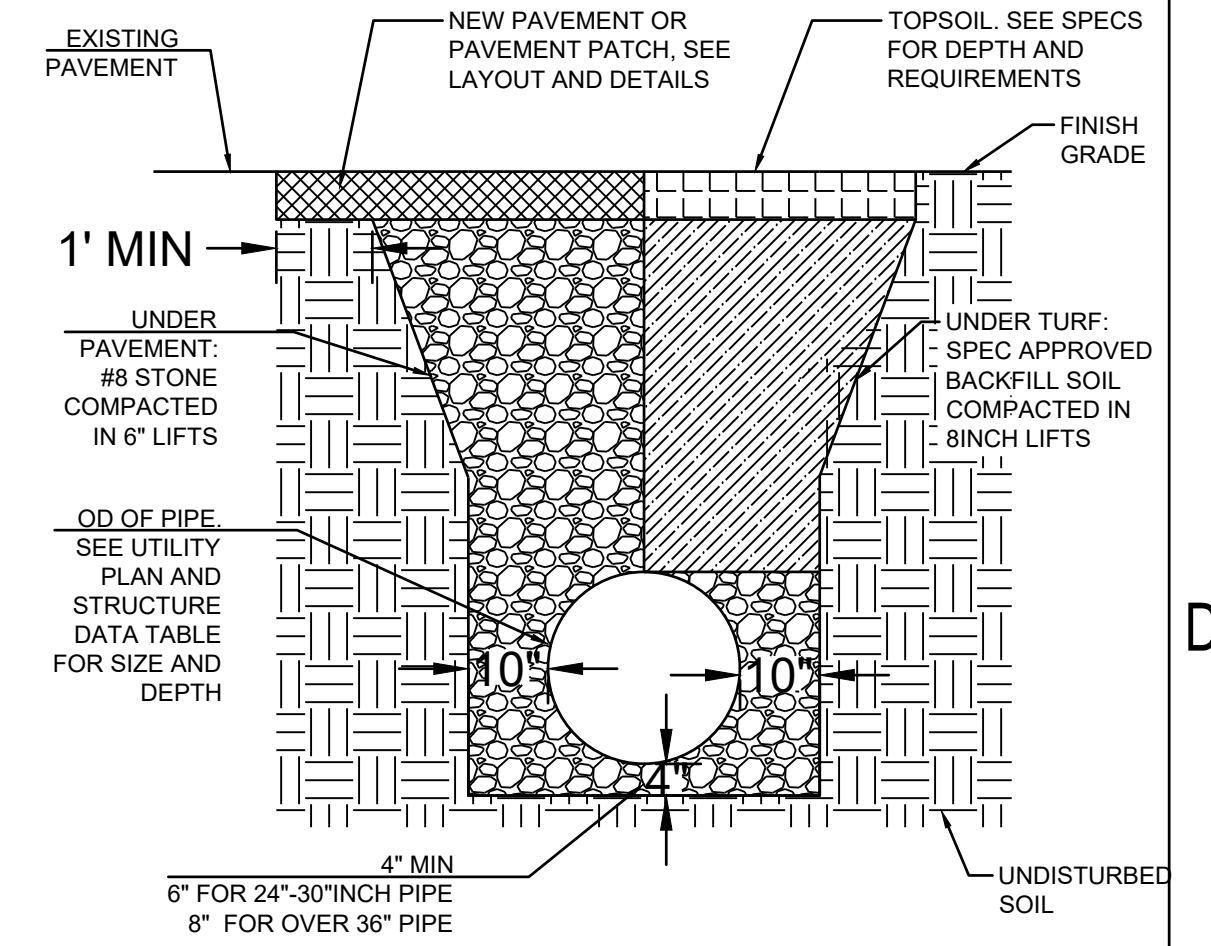
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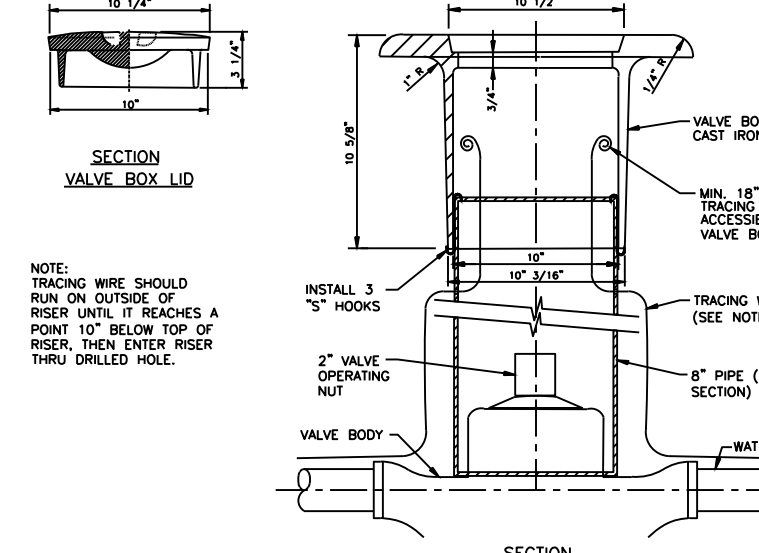
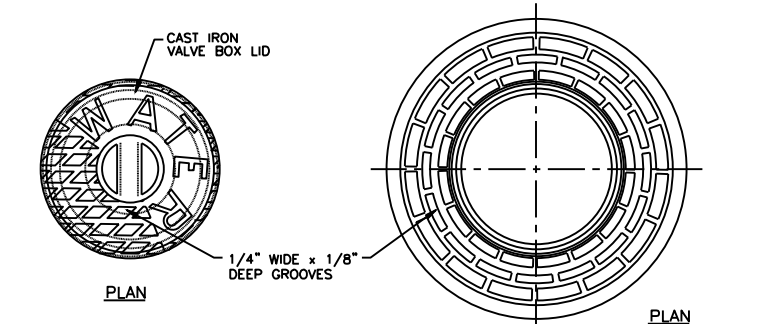
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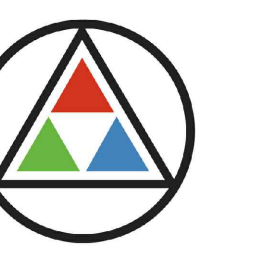
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1D SDR35, HDPE, RCP PIPE BEDDING
1" = 2'



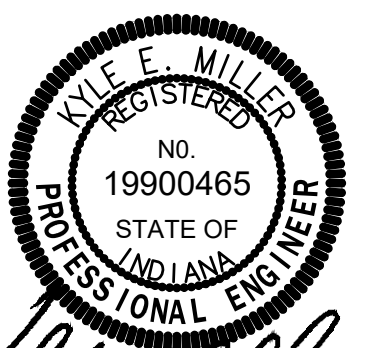
1C WATER VALVE
NTS



SCHMIDT ASSOCIATES

415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-036.GAH
Project Date 01.08.2026
Produced TP



Kyle E. Miller

These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Architect.

#	Revision	Date

3705 IN-16
Brook, IN 47922

KEY PLAN

NEWTON COUNTY
BOARD OF
COMMISSIONERS

HAZELDEN ESTATE
RESTORATION -
UTILITY SITE
PREPARATION -
BID PACKAGE 2

UTILITY DETAILS

CU501.2

D

C

B

A

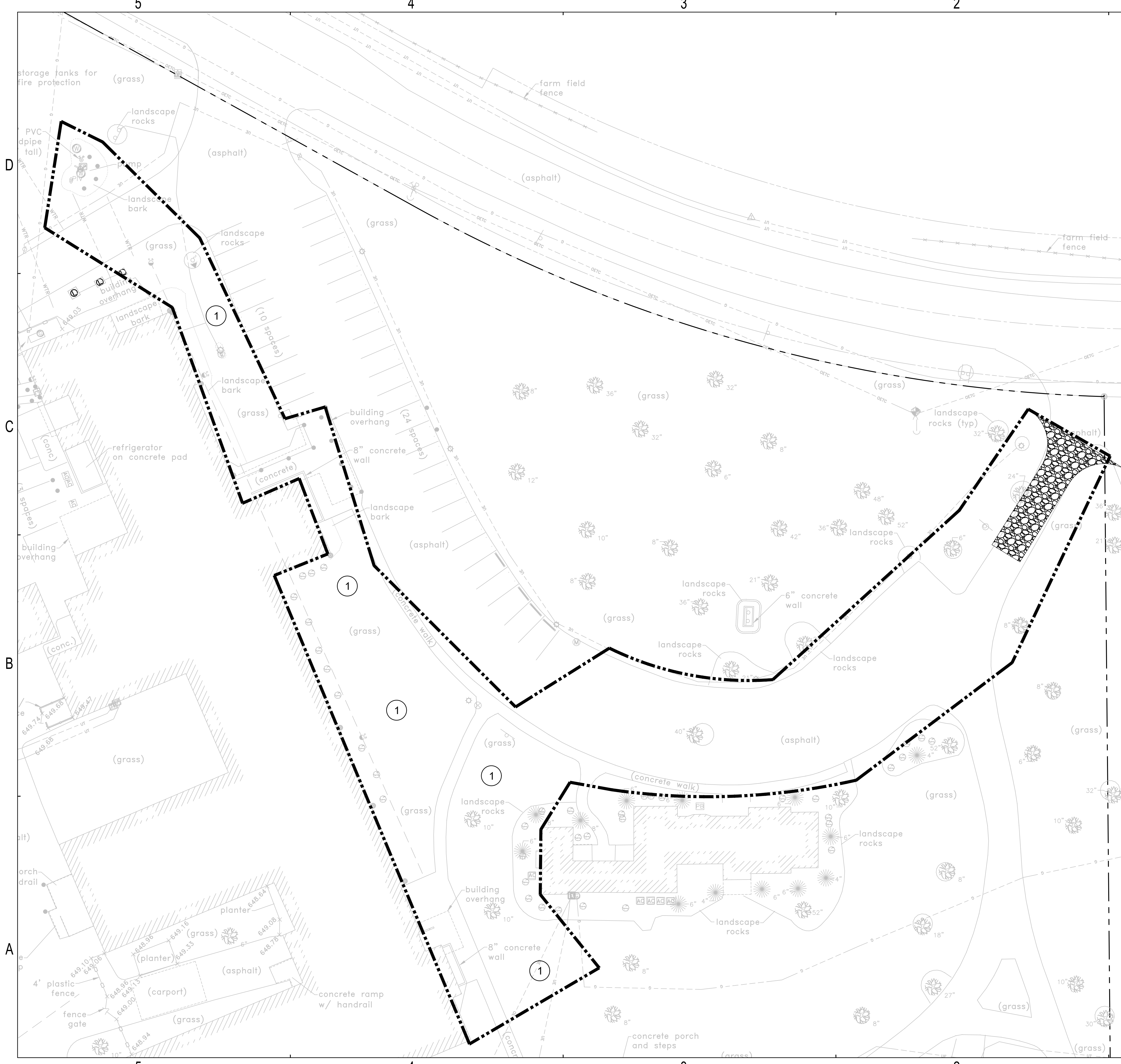
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4

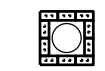

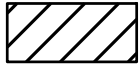




3

2

1



EROSION CONTROL LEGEND

-  INLET PROTECTION, SEE DETAILS
-  CONSTRUCTION ENTRANCE, SEE DETAILS
-  EROSION CONTROL BLANKET
-  CONSTRUCTION LIMITS LINE
-  SILT FENCE
-  CW CONCRETE WASHOUT, SEE DETAILS
-  SP STOCK PILE (SEE DETAILS)

CONTACT PERSON
 KRISTINE WRIGHT - DIRECTOR
 100 W MAIN ST, BROOK IN
 kwright@brook.lib.in.us
 219-275-2471


EROSION CONTROL NOTES

- ① SEED ALL DISTURBED AREAS



SCHMIDT ASSOCIATES
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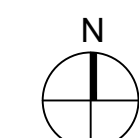


Kyle E. Miller

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#	Revision	Date

3705 IN-16
 Brook, IN 47922


KEY PLAN 

NEWTON COUNTY
 BOARD OF
 COMMISSIONERS

HAZELDEN ESTATE
 RESTORATION -
 UTILITY SITE
 PREPARATION -
 BID PACKAGE 2

STORMWATER POLLUTION
 PREVENTION PLAN (SWPPP)
CE101.2

① **EROSION CONTROL PLAN**
 1" = 20'



A-Construction Plan Elements

- A1. INDEX SHOWING LOCATIONS OF REQUIRED PLAN ELEMENTS: SEE SHEET G-001
- A2. VIGNET MAP: SEE SHEET G-001
- A3. NARRATIVE DESCRIBING THE NATURE AND PURPOSE OF THE PROJECT: THE PROJECT INVOLVES A PARKING LOT ADDITION, NEW SIDEWALK, NEW PATIO FOR THE CARRIAGE HOUSE, PERMEABLE PAVERS, CUT AND FILL
- A4. LATITUDE AND LONGITUDE: SEE COVER SHEET G-001. LATITUDE: 40.86402506G LONGITUDE: -87.323457 DEG
- A5. LEGAL DESCRIPTION OF THE PROJECT SITE: SECTION 22, 28N, 8W RE, NEWTON COUNTY, INDIANA.
- A6. 11X17 PLAT SHOWING LOCATIONS: SEE SHEET CL101.
- A7. BOUNDARIES OF 100YR FLOODWAY/FRINGES, AND FLOODPLAINS: SEE SURVEY SHEETS
- A8. LAND US OF ALL ADJACENT PROPERTIES: SEE SURVEY SHEETS.
- A9. IDENTIFICATION OF US EPA APPROVED OR ESTABLISHED TMDL: NO EPA APPROVED OR ESTABLISHED TMDL.
- A10. NAME OF RECEIVING WATERS: IROQUOIS RIVER
- A11. IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303 LIST OF IMPAIR WATERS AND THE POLLUTANTS FOR WHICH IT IS IMPAIRED:
- A12. SOIL MAP: SEE CE501
- A13. IDENTIFICATION AND LOCATION OF ALL KNOWN WETLAND LAKES AND WATER COURSES ON ADJACENT TO THE PROJECT SITE: SEE SURVEY SHEETS.
- A14. IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATION THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES:
- A15. IDENTIFICATION AND DELINEATION OF EXISTING COVER INCLUDING NATURAL BUFFERS: SEE SURVEY SHEETS.
- A16. EXISTING TOPOGRAPHY AT A CONTOUR INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS: SEE SURVEY SHEETS
- A17. LOCATION OF WHERE RUNOFF ENTERS THE PROJECT SITE: SEE CG101.
- A18. LOCATION OF WHERE RUNOFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE: SEE SURVEY SHEETS
- A19. LOCATION OF ALL EXISTING STRUCTURE ON THE PROJECT SITE: SEE SURVEY SHEETS.
- A20. EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT. SEE SURVEY SHEETS.
- A21. LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUNDWATER, SUCH AS ABANDONED WELLS, SINKHOLES OR KARST FEATURES.
- A22. SIZE OF PROJECT AREA IN ACRES: 6.85 ACRES
- A23. TOTAL EXPECTED LAND DISTURBANCES IN ACRES: 1.85 ACRES
- A24. PROPOSED FINAL TOPOGRAPHY: SEE CG101 SHEETS
- A25. LOCATION AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS: SEE CL101 SHEETS.
- A26. LOCATION SIZE AND DIMENSION OF ALL STORMWATER DRAINAGE SYSTEM. SEE CU101 SHEETS
- A27. LOCATION OF SPECIFIC POINT WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE. SEE CU101 SHEETS
- A28. LOCATION OF ALL PROPOSED SITE IMPROVEMENTS: SEE CL101 SHEETS
- A29. LOCATION OF ALL ONSITE SOIL STOCKPILES AND BORROW AREAS. SEE CE101 SHEETS.
- A30. CONSTRUCTION SUPPORT ACTIVITIES: NONE
- A31. LOCATION OF ANY IN-STREAM ACTIVITIES: NONE

B-SWPPP-EROSION CONTROL

- B1. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES: SILT AND SEDIMENT FROM EXPOSED SOILS, LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, TRASH, DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH, FERTILIZERS, HERBICIDES, PESTICIDES, ACID RAIN, LIME DUST AND CONCRETE WASHOUT.
- B2. STABLE CONSTRUCTION ENTRANCE LOCATION AND SPECS: SEE CE101 AND CE501 SHEETS
- B3. SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION: SEE CHART: Sectional Soil Protection Chart:

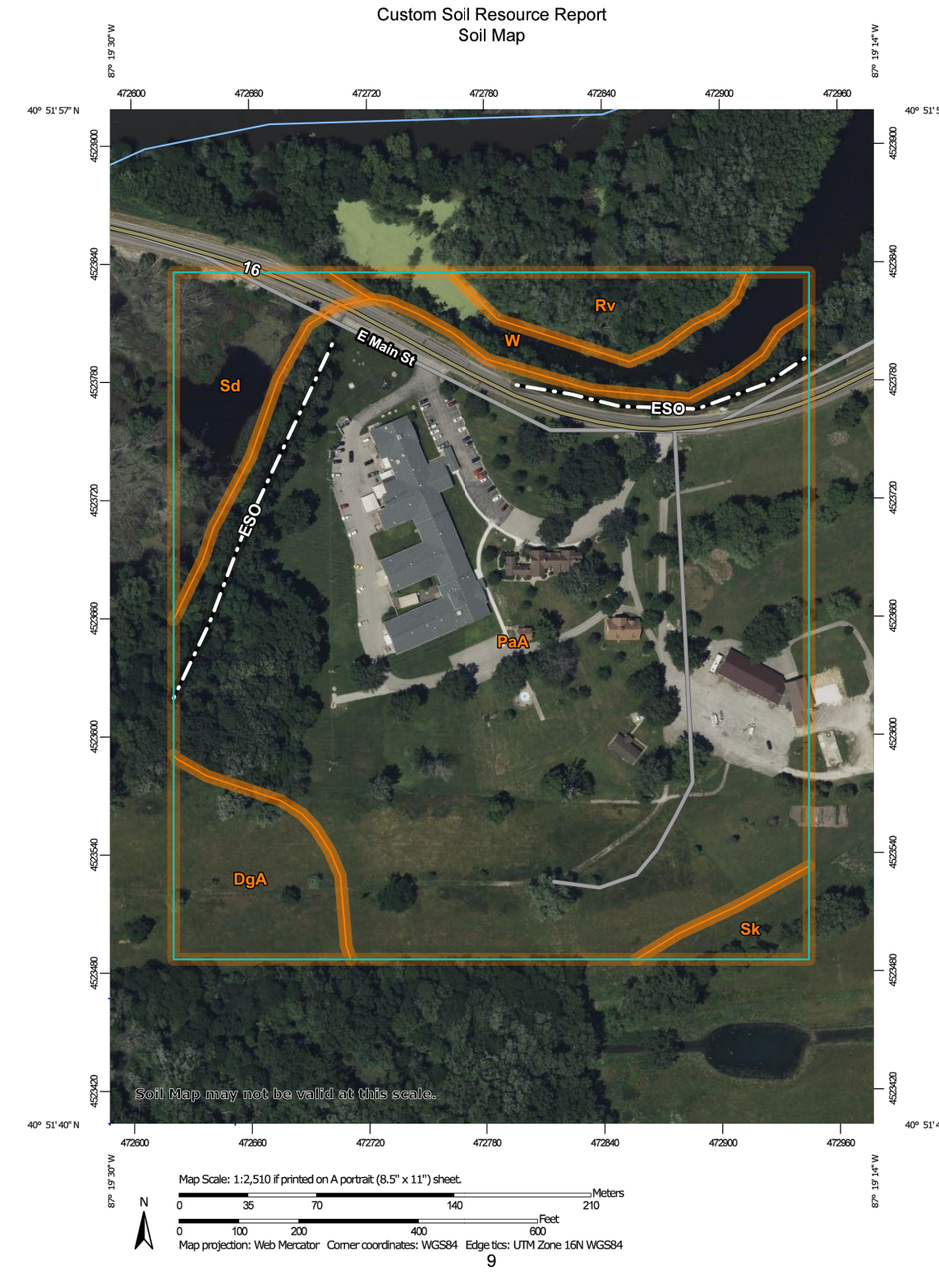
Stabilization practice	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1. Mulch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2. Straw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3. Hay	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4. Geotextile	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5. Erosion control blanket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6. Silt fence	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7. Sediment trap	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8. Silt fence with straw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9. Silt fence with hay	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10. Silt fence with geotextile	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11. Silt fence with erosion control blanket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
- B4. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS: SEE SHEET CE101
- B5. SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS: SEE SHEET CE101.
- B6. RUNOFF CONTROL MEASURES: SEE SHEET CE101.
- B7. STORMWATER OUTLET AND PROTECTION LOCATIONS AND SPECS: SEE SHEET CE101.
- B8. GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECS: SEE SHEET CE101
- B9. DRAINAGE APPLICATIONS AND MANAGEMENT METHODS: NONE
- B10. MEASURES UTILIZED FOR WORK WITHIN WATERBODIES: NONE.
- B11. MAINTENANCE GUIDELINES FOR EACH PROPOSED TEMPORARY STORMWATER QUALITY MEASURE. PER IDEM STORMWATER QUALITY MANUAL AND BELOW.
 - SILT FENCE MAINTENANCE REQUIREMENTS**
 1. Inspect the silt fence periodically and after each storm event
 2. If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
 3. Remove deposited sediment when it reaches half the height of the fence or its lowest point or is causing the fabric to bulge.
 - TEMPORARY SLOPE PROTECTION MAINTENANCE REQUIREMENTS**
 1. Inspect temporary inlet after each storm event and immediately repair any erosion and piping holes.
 2. Inspect vegetation and re-seed if necessary.
 3. If fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
 4. Remove deposited sediment when it reaches half full.
 - EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS**
 1. During vegetative establishment, inspect after each storm event for any erosion below the blanket.
 2. If any areas show erosion, pull back that portion of the blanket covering it, reseed the area and relay and staple the blanket.
 3. After vegetative establishment check the treated area periodically.
 - TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS**
 1. Inspect entrance pad and sediment disposal area weekly and after storm events or heavy use.
 2. Reshape as needed for drainage and runoff control.
 3. Topdress with clean stone as needed.
 4. Immediately remove mud and sediment tracked or washed onto streets by brushing or sweeping.
 - TEMPORARY CONCRETE WASHOUT MAINTENANCE REQUIREMENTS**
 1. Clean concrete washout daily when used.
 2. Dispose of concrete per local requirements.
- B12. PLANNED CONSTRUCTION SEQUENCE DESCRIBING THE RELATIONSHIP BETWEEN IMPLEMENTATION OF STORMWATER QUALITY MEASURE IN REACTION TO LAND DISTURBANCE.
 1. Conduct preconstruction meeting with soil and water
 2. Call the Indiana Underground Plant Protection systems, Inc. ("Village Mole") at 811 to check the location of any existing utilities. They should be notified two working days before construction takes place.
 3. Post 1 silt fence shall be installed at the edges of the project site where there is potential for any stormwater runoff.
 4. Inlet protection shall be installed.
 5. Evaluate, mark and protect important trees and associated root zones. Evaluate existing vegetation suitable
 6. A construction entrance shall be placed per the plan location
 7. Establish construction staging area for equipment and vehicles
 8. Establish onsite location for approved plans/SWPPP plans and postings.
 9. Establish SWPPP documents and reports
 10. Once erosion and sediment control measures are in place, begin land clearing followed immediately by rough grading. Do not leave large areas unprotected for more than 7 days.
 11. Conduct SWPPP inspections
 12. After grading, seed all disturbed areas
 13. Install utilities including Storm sewers, etc
 14. Install inlet protections on new storm structures
 15. Final Grade and Final Seed all areas.
- B13. PROVISION FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT. NONE
- B14. MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENT IN 327 IAC2-5-1
 1. IF ANY SPILL EXCEEDS THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT LEVELS, THE CONTRACTOR SHALL ENGAGE A QUALIFIED ENVIRONMENTAL CLEAN UP CONTRACTOR TO DISPOSE OF CONTAMINATED AREAS AS REQUIRED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. ALL CLEAN OUT OF CONCRETE TRUCKS SHALL ALSO BE DONE A MINIMUM OF 50 FEET FROM ANY STORM INLET, DRAINAGE SWALE OR EXCAVATED POND. ALL CONCRETE CLEAN OUT SHALL BE IN AN EXCAVATED SEDIMENT BASIN AND THE EXCESS MATERIAL REMOVED AFTER ALL CONCRETE MATERIAL INSTALLATION HAS BEEN COMPLETED ON THE SITE.
 1. Any personnel observing a spill will immediately instigate the following procedure:
 - Dialing "911" from any telephone.
 - Notify the appropriate emergency personnel.
 2. The Emergency Coordinator will then take the following actions:
 - Barricade the area allowing no vehicles to enter or leave the spill zone.
 - Notify the Indiana Department of Environmental Management, Office of Emergency Response by calling the appropriate telephone number: Office: 317-233-7745
 - Notify National Response Center at 800-424-8802
 - Notify bureau of Water Quality - (765)747-4996
- B15. MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY: SEE SHEET CE101

C-SWPPP POST CONSTRUCTION

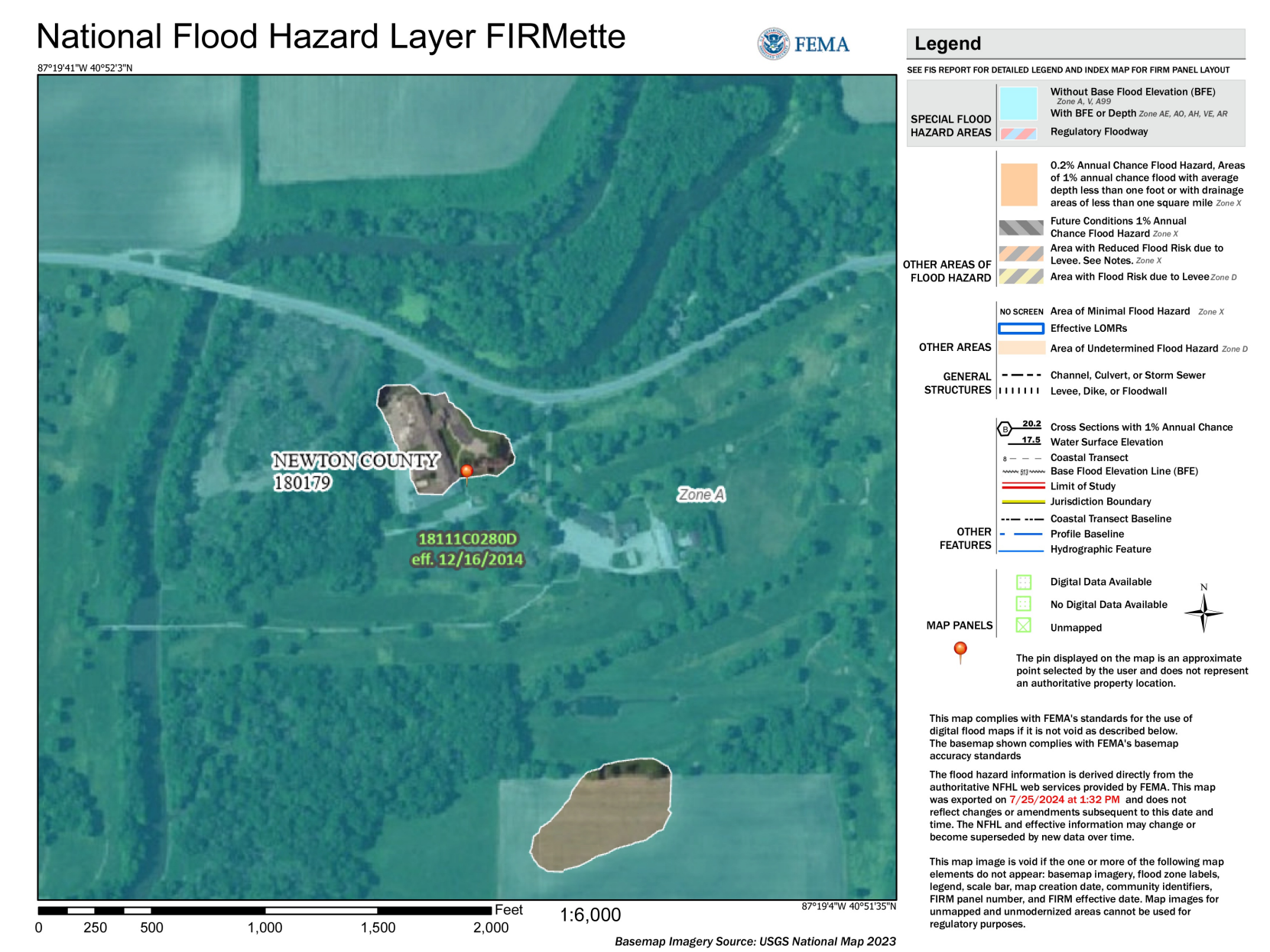
- C1. DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATE WITH THE PROPOSED LAND ACTIVITIES: US SILT AND SEDIMENT FROM EXPOSED SOILS, LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, TRASH, DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH, FERTILIZERS, HERBICIDES, PESTICIDES, ACID RAIN, LIME DUST
- C2. DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER MEASURES
 1. VEGETATED STRIPS AND/OR SWALES
 2. PERMANENT EROSION CONTROL SEEDING AND PLANTINGS
 3. OUTLET PROTECTION & VELOCITY DISSIPATION DEVICES
 4. EARTHEN DIKES, DRAINAGE SWALES AND LINED DITCHES
 5. ROCK SLOPE PROTECTION
 6. MULCHING
- C3. PLAN DETAILS FOR EACH STORMWATER MEASURE: SEE CE501 AND SPECS
- C4. SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION AFTER ALL CONSTRUCTION ACTIVITIES ARE FINISHED, INSTALL ALL PERMANENT VEGETATION.
- C5. MAINTENANCE GUIDELINE FOR PROPOSED POST CONSTRUCTION STORMWATER MEASURES
 1. INSPECT ALL STORM WATER STRUCTURES, FOR DEBRIS QUARTERLY
 2. INSPECT ORIFICE FOR DEBRIS AFTER ALL LARGE RAIN EVENTS AND QUARTERLY
 - 3.
- C6. ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST CONSTRUCTION STORMWATER MEASURES. GEORGE ADE MEMORIAL HEALTH CARE CENTER

L-LOCAL SWPPP

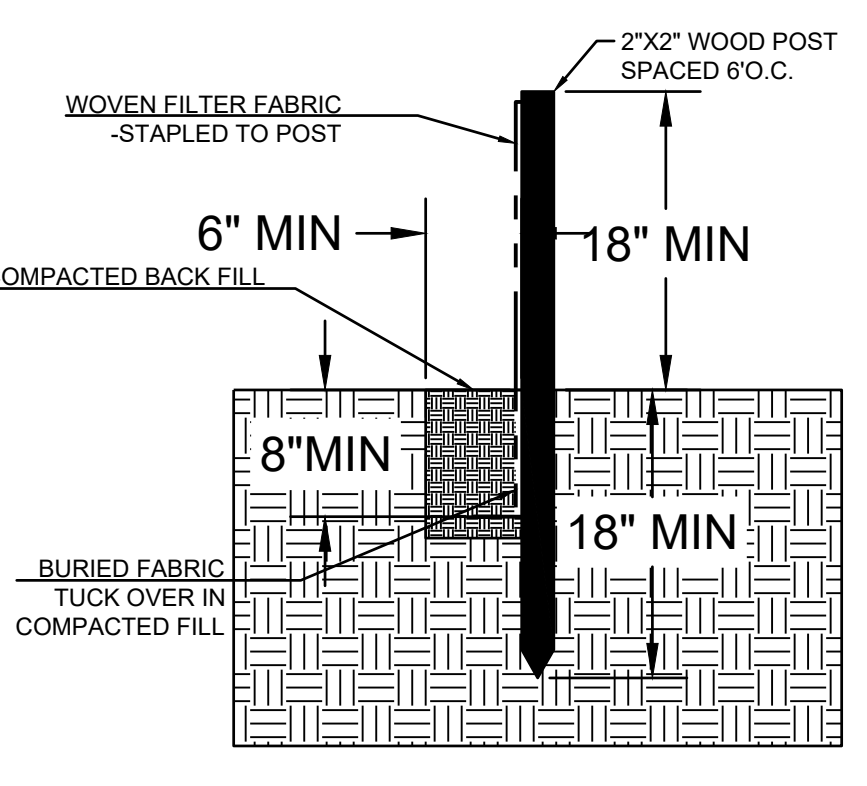
- L1. A SWPP WAS NOT PREPARED AND APPROVED PRIOR TO CONSTRUCTION N/A
- L2. THE SWPPP IDENTIFIES THE LOCATION OF: CHEMICAL STORAGE, STRUCTURE, AND PIPE LISTS, PORTA-LETS, STAGING AREA, FUEL TANKS, AND DUMPSTER PADS. SEE CE101 SHEETS.
- L3. SWPPP SITE DESCRIPTION INCLUDES TOTAL FINAL IMPERVIOUS AREA. SEE CL101 SHEETS.
- L4. SWPPP REFERENCES THE IDEM INDIANA STORMWATER QUALITY MANUAL. SEE B-SWPPP.
- L5. IF A RETAIL GASOLINE OUTLET: THE SWPPP INCLUDES POLLUTION REDUCTION BMPS N/A
- L6. IF RETAIL GASOLINE OUTLET THE SWPPP INCLUDES THE INSTALLATION DETAILS N/A
- L7. IF A RETAIL GASOLINE OUTLET: THE POST CONSTRUCTION AGREEMENT INCLUDES BMPS, DETAILS, AND MAINTENANCE CRITERIA. N/A



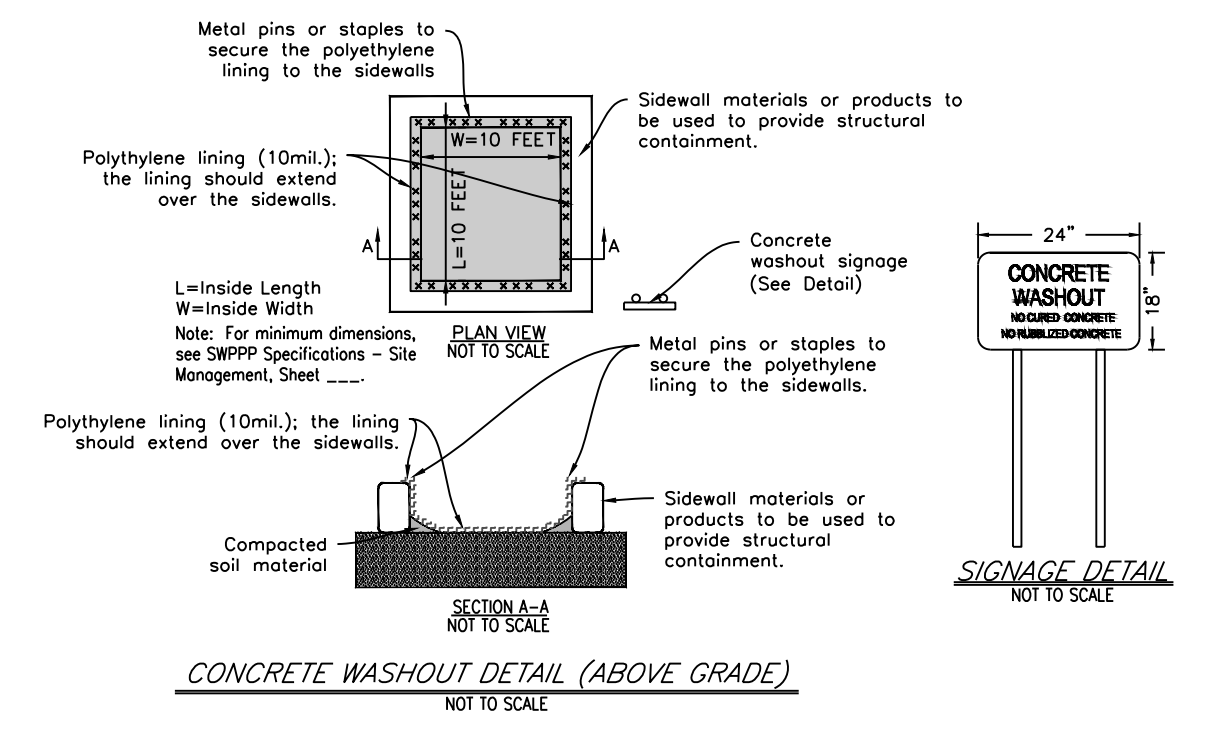
2D NRCS SOIL MAP & DESCRIPTION N.T.S



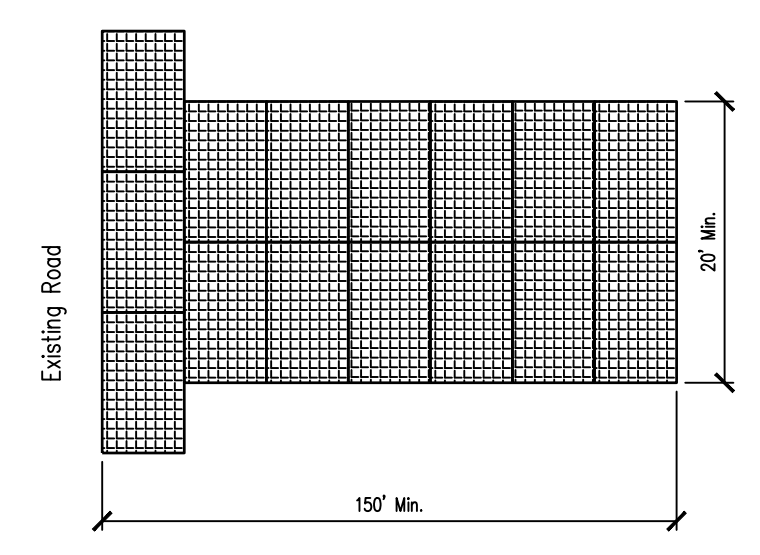
2B ADJACENT FLOODPLAINS & FLOODWAYS MAP N.T.S



3A SILT FENCE 1" = 1'



2A CONCRETE WASHOUT N.T.S



- Maintenance:
1. Use FDS or Shaker plates on existing pavement as the construction entrance.
 2. The mat shall be 12"x3'3" size from FDS LLC 91-844-200-3637, or from SoCal Shaker Plates (951-588-5696)
 3. Inspect daily and after storm events or heavy use.
 4. Reshape as needed for drainage and runoff control.
 5. Immediately remove mud and sediment tracked or washed onto public roads by sweeping or brushing.
 6. Repair any broken pavement immediately.

1A STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE - PRACTICE 3:01

Project No. 2021-036.GAH
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#	Revision	Date

3705 IN-16
 Brook, IN 47922

KEY PLAN

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2

SWPPP NOTES AND DETAILS

CE501.2

ABBREVIATIONS

Table of abbreviations for electrical symbols, including terms like AMPERE, FEET, FOOT, OVERCURRENT, etc.

ELECTRICAL LEGEND & SYMBOLS LIGHTING

Table of lighting symbols and their descriptions, such as LIGHT FIXTURE, TRACK AND TRACK LIGHT FIXTURE, etc.

POWER DISTRIBUTION

Table of power distribution symbols and their descriptions, including POWER DISTRIBUTION PANELBOARD, BRANCH CIRCUIT PANELBOARD, etc.

CONDUIT & FEEDER

Table of conduit and feeder symbols and their descriptions, such as UNDERGROUND ELECTRICAL SERVICE, OVERHEAD ELECTRICAL SERVICE, etc.

WIRING DEVICES

Table of wiring device symbols and their descriptions, including SIMPLEX RECEPTACLE, DUPLEX RECEPTACLE, etc.

GENERAL ROUGH-IN MOUNTING HEIGHT NOTES

Table of notes for mounting heights, including notes A, B, C, and D regarding ADA standards and specific device heights.

MOUNTING HEIGHTS

Table of mounting height symbols and their descriptions, such as *18" TO CENTER OF RECEPTACLE, *46" ABOVE TOP OF COUNTERTOP, etc.

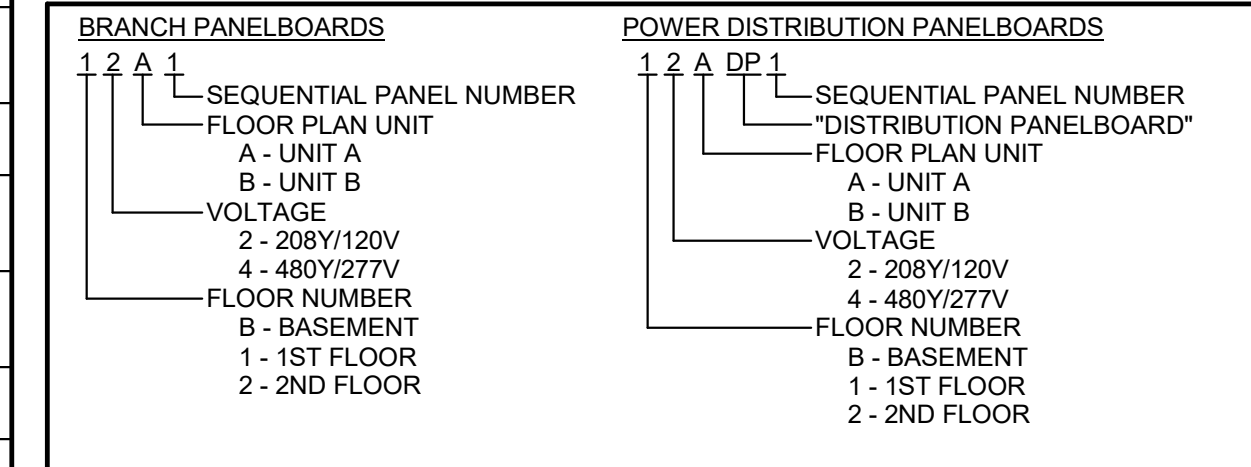
LIGHTING CONTROL DEVICES

Table of lighting control device symbols and their descriptions, including MANUAL SWITCH ON TO SELECTED LIGHT LEVEL, DIMMER, etc.

FIRE ALARM SYSTEM

Table of fire alarm system symbols and their descriptions, such as FIRE ALARM CONTROL UNIT, REMOTE FIRE ALARM CONTROL UNIT, etc.

PANELBOARD NAMING

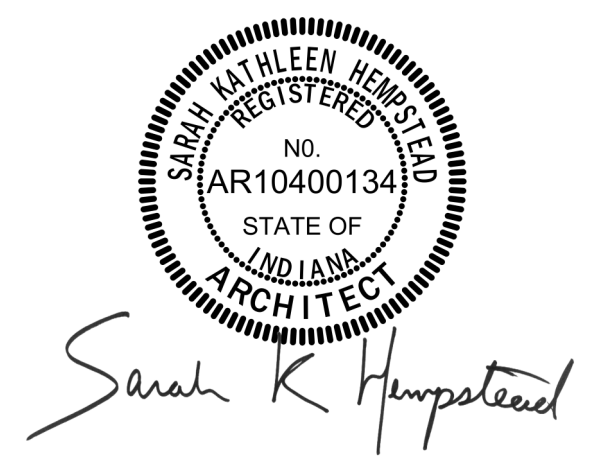


ANNOTATION SYMBOLS

Table of annotation symbols and their descriptions, such as PANEL-CKT, ROOM CIRCUIT TAG.



Project No. 2021-036.GAH
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Table with columns for Revision, Date, and Description, showing revision history.

3705 IN-16 Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2

SYMBOLS & ABBREVIATIONS

MAXIMUM BRANCH CIRCUIT CONDUCTOR LENGTHS (FEET)

Table with columns for Conductor Size, Single Phase Branch Circuit Breaker Size (120V, 208V, 277V, 480V), and Three Phase Branch Circuit Breaker Size (208V, 480V).

NOTES: 1. MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%. ADJUST CONDUCTOR SIZE PER MAXIMUM BRANCH CIRCUIT LENGTH. 2. BRANCH CIRCUIT LENGTHS ARE BASED ON CONDUCTOR DISTANCE FROM PANELBOARD TO LOAD. 3. PROVIDE JUNCTION BOX TO MAKE WIRE TRANSITION FOR FINAL TERMINATION ON DEVICE, FIXTURE, EQUIPMENT, ETC. 4. CALCULATIONS BASED ON COPPER CONDUCTORS, 80% LOADING OF BRANCH CIRCUIT BREAKER, AND 0.95 POWER FACTOR.

FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)

Table with columns for Feeder/Branch Circuit Label, Conduit Size & Quantity, and Conductor Size Per Conduit (Phase & Neutral, Equip/Serv, Ground).

GENERAL FEEDER & BRANCH CIRCUIT SCHEDULE NOTES (COPPER)

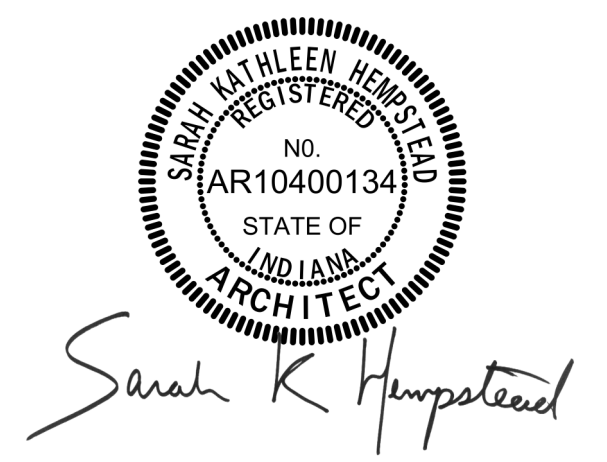
- NOTES: A. PROVIDE BOTH NEW CONDUCTORS AND NEW CONDUIT FOR ALL FEEDERS AND BRANCH CIRCUITS INDICATED WITH A FEEDER/BRANCH CIRCUIT LABEL. B. REUSE ANY EXISTING CONDUCTORS AND/OR CONDUIT UNLESS SPECIFICALLY NOTED ON DRAWINGS, ONE-LINE DIAGRAM, ETC. C. REFER TO SPECIFICATIONS FOR MINIMUM CONDUCTOR AND CONDUIT SIZES. D. REFER TO SPECIFICATIONS FOR TYPE OF RACEWAY. E. FOR ALL NEW AND EXISTING CONDUIT INSTALLATIONS, REFER TO THE NEC FOR CONDUIT AND TUBING FILL TABLES. F. IN LOCATIONS WHERE EXISTING CONDUIT IS PERMITTED TO BE REUSED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDUIT SIZE MEETS THE NEC CONDUIT AND FILL TABLES PRIOR TO BID. G. IF THE CONDUIT DOES NOT MEET THE NEC FILL TABLES, REPLACE THE CONDUIT FOR THE FEEDER AND/OR BRANCH CIRCUIT IN ITS ENTIRETY TO SATISFY THE NEC CONDUIT AND TUBING FILL TABLES. H. ANY CONDUIT AND/OR CONDUCTOR SIZE DEVIATIONS FROM THIS SCHEDULE, OR INDICATED ON DRAWINGS, MUST BE APPROVED BY THE ENGINEER IN WRITING.

GENERAL REQUIREMENTS NOTES (ALL DRAWINGS)

- NOTES: A. APPLICABLE CODE: 2009 INDIANA ELECTRICAL CODE (2008 NEC WITH AMENDMENTS). B. CONNECT ALL LIGHTING FIXTURES WITHIN ROOM TO INDICATED SWITCH AND BRANCH CIRCUIT, U.O.N. C. WHERE MULTIPLE SWITCHES, RECEPTACLES, AND OTHER OUTLETS (EXCEPT PHONES) ARE INDICATED, PROVIDE MULTI-GANG/BACK OUTLET BOXES WITH GANG BARRIERS AND A COMMON FACE PLATE FOR SIMILAR DEVICES. D. WHERE EXIT SIGNS ARE INDICATED ABOVE DOOR, MOUNT AS FOLLOWS: IF THE DISTANCE BETWEEN THE TOP OF THE DOOR FRAME AND THE CEILING IS 24 INCHES OR LESS, CENTER THE EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING. OTHERWISE, MOUNT BOTTOM OF EXIT SIGN 6 INCHES ABOVE TOP OF DOOR FRAME. MOUNT OTHER WALL MOUNTED EXIT SIGNS LOCATED WITHIN THE SAME AREA AT THE SAME HEIGHT. E. WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING HEIGHTS ARE INDICATED SIDE-BY-SIDE, MOUNT THE DEVICES SO THAT THERE IS FOUR INCHES BETWEEN ADJACENT VERTICAL EDGES. F. WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES. G. INSTALL SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL 120V AND 277V CIRCUITS. DO NOT SHARE NEUTRALS. H. ALL EXIT FIXTURES AND FIXTURES INDICATED WITH "NL" SHALL BE UNSWITCHED. I. INSTALL NO MORE THAN THREE PHASE CONDUCTORS (PLUS NEUTRALS AND GROUND) PER CONDUIT UNLESS 1310-15 NEC IS FOLLOWED. J. NUMBER OF WIRES INDICATED ON DRAWINGS, IN PANEL SCHEDULES AND CIRCUIT SIZING SCHEDULES APPLIES TO CURRENT CARRYING CONDUCTORS INCLUDING NEUTRALS. IN ADDITION TO THE NUMBER OF WIRES INDICATED, PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED AS SCHEDULED OR SIZED BY NEC 250. K. UNLESS OTHERWISE NOTED, PROVIDE FEEDERS AND BRANCH CIRCUITS WHICH HAVE AN AMPACITY EQUAL TO OR GREATER THAN THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE RATING SERVING THE CIRCUIT. REFER TO CIRCUIT SIZING SCHEDULE FOR SIZES OF FEEDERS AND BRANCH CIRCUITS. L. COORDINATE LOCATION OF CEILING MOUNTED FIRE ALARM DEVICES WITH OTHER EQUIPMENT TO AVOID INTERFERENCE. LOCATE FIRE ALARM DEVICES AS NEAR TO LOCATION INDICATED WHILE AVOIDING INTERFERENCES. M. MAKE FINAL CONNECTION BETWEEN DISCONNECT AND EQUIPMENT BEING SERVED BY FEEDER OR BRANCH CURRENT. N. DIVISION 26 CONTRACTOR SHALL REFER TO LIFE SAFETY PLAN FOR FIRE-RATING REQUIREMENTS. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE-RATED DEVICES/SEALS AS SHOWN ON ELECTRICAL DRAWINGS AND AS REQUIRED BASED ON LIFE SAFETY PLAN INFORMATION. O. PER NEC ARTICLE 110.26(A) AND 110.26(F) THE DEDICATED ELECTRICAL SPACE INCLUDES THE SPACE DEFINED BY EXTENDING THE FOOTPRINT OF THE ELECTRICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, MOTOR CONTROLLERS) FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE HEIGHT OF THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER. THE DEDICATED ELECTRICAL SPACE MUST BE CLEAR OF ANY PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION. PLUMBING, HEATING, VENTILATION, AND AIR-CONDITIONING PIPING, DUCTS, AND EQUIPMENT MUST BE INSTALLED OUTSIDE THE WIDTH AND DEPTH ZONE. CONTRACTOR SHALL MAKE SURE NO PIPING OR DUCT WORK IS INSTALLED ABOVE THE ELECTRICAL EQUIPMENT. COORDINATE THESE REQUIREMENTS WITH ALL OTHER TRADES PRIOR TO INSTALLATION. P. CONTRACT DOCUMENTS CONSISTS OF BOTH A PROJECT MANUAL AND DRAWINGS. BOTH ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.



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Project Date 01.08.2026
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Table with columns: #, Revision, Date

3705 IN-16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2

GENERAL INFORMATION

E-002.2

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LOCAL UTILITY CONTACT INFORMATION

- WILLIAM N. WARREN
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- (574)583-1640
- NISOURCE

GENERAL SITE NOTES

NOTES

A REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.

B REFER TO LOCAL UTILITIES GUIDE FOR DETAILS, SCHEMATICS, REQUIREMENTS, ETC. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC.

C COORDINATE WITH NISOURCE PRIOR TO BID. VERIFY THE LIMITS OF RESPONSIBILITY WITH RESPECT TO METERING, CONDUIT AND WIRING, TERMINATIONS, CONCRETE PADS, EXCAVATION, ETC. INCLUDE ALL ASSOCIATED COSTS REQUIRED BY THE NISOURCE TO ESTABLISH/UPGRADE SERVICE(S) AS INDICATED ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE REIMBURSED FOR CHANGES IN THE SERVICE INSTALLATION BROUGHT ABOUT DUE TO A FAILURE OF THE CONTRACTOR TO VERIFY ALL THE DETAILS WITH THE NISOURCE.

GENERAL SITE DEMOLITION NOTES

NOTES

A REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.

B THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.

C CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.

D THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.

E THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.

F ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.

G REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.

H COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.

I PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.

K REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

L COORDINATE WITH C-SERIES DRAWINGS FOR ALL OTHER UTILITIES.

SITE DEMOLITION PLAN NOTES

NOTES

1 COORDINATE WITH NISOURCE FOR DISCONNECT AND REMOVAL OF EXISTING METER CABINET AND SERVICE ENTRANCE CONDUCTORS.

2 REMOVE EXISTING WEATHER HEAD AND CONDUIT DOWN TO METER. REMOVE EXISTING METER. REMOVE SERVICE ENTRANCE CONDUCTORS INTO THE BUILDING FROM METER. COORDINATE WITH NISOURCE TO REMOVE EXISTING OVERHEAD LINE TO GEORGE ADE HOME.

3 EXISTING UTILITY POLE(S), TRANSFORMER(S) AND OVERHEAD LINES TO BE REMOVED BY NISOURCE.

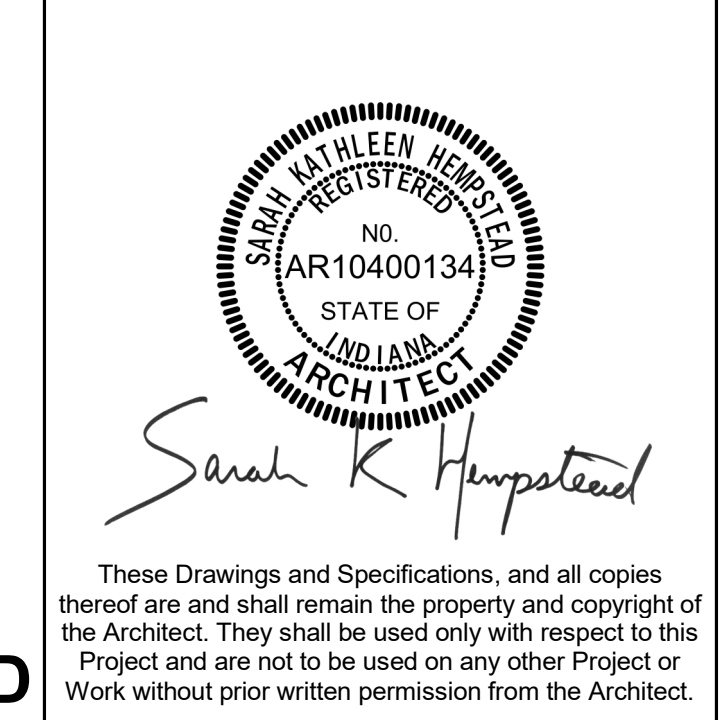
4 DISCONNECT AND REMOVE WIRING TO CARRIAGE HOUSE. REMOVE ALL CONDUIT TO CARRIAGE HOUSE ABOVE GRADE AND REMOVE ALL CONDUIT TO CARRIAGE HOUSE INTO THE GEORGE ADE HOME. ABANDON UNDERGROUND CONDUIT TO CARRIAGE HOUSE IN PLACE. PATCH WALL(S) TO MATCH SURROUNDING.

5 EXISTING POLE AND LIGHTING FIXTURE ARE EXISTING TO REMAIN.

REFER TO E-001 FOR ADDITIONAL INFORMATION.



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HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2

SITE DEMOLITION PLAN
ES101.2



2A SITE DEMOLITION PLAN
 1" = 30'-0"

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HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2
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LOCAL UTILITY CONTACT INFORMATION

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GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEETS E-001 AND E-002 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS, SCHEMATICS, REQUIREMENTS, ETC. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC.
C	COORDINATE WITH NISOURCE PRIOR TO BID. VERIFY THE LIMITS OF RESPONSIBILITY WITH RESPECT TO METERING, CONDUIT AND WIRING, TERMINATIONS, CONCRETE PADS, EXCAVATION, ETC. INCLUDE ALL ASSOCIATED COSTS REQUIRED BY THE NISOURCE TO ESTABLISH/UPGRADE SERVICE(S) AS INDICATED ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE REIMBURSED FOR CHANGES IN THE SERVICE INSTALLATION BROUGHT ABOUT DUE TO A FAILURE OF THE CONTRACTOR TO VERIFY ALL THE DETAILS WITH THE NISOURCE.

SITE POWER PLAN NOTES

#	NOTES
1	TRENCH (1) 4" EMPTY PVC CONDUIT FROM NISOURCE PAD-MOUNT TRANSFORMER TO NISOURCE LUG CABINET. PROVIDE LONG SWEEPING ELBOWS AT EACH END. PROVIDE PULL STRING FOR CONDUIT. COORDINATE WITH NISOURCE FOR NISOURCE WIRE INSTALLATION.
2	TRENCH (1) 4" EMPTY PVC CONDUIT FROM NISOURCE LUG CABINET TO NEW NISOURCE METER SERVING GEORGE ADE HOME. PROVIDE LONG SWEEPING ELBOWS AT EACH END. PROVIDE PULL STRING FOR CONDUIT. COORDINATE WITH NISOURCE FOR NISOURCE WIRE INSTALLATION.
3	BORE 4" CONDUIT UNDER EXISTING PAVEMENT.
4	TRENCH (1) 3" EMPTY PVC CONDUIT FROM NISOURCE LUG CABINET TO EXISTING NISOURCE METER SERVING 12G1. PROVIDE LONG SWEEPING ELBOWS AT EACH END. PROVIDE PULL STRING FOR CONDUIT. COORDINATE WITH NISOURCE FOR NISOURCE WIRE INSTALLATION.

REFER TO E-601 FOR ADDITIONAL INFORMATION.



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SITE POWER PLAN

ES102.2



2A SITE LIGHTING PLAN
 1" = 30'-0"

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6 5 4 3 2 1

TELECOMMUNICATIONS DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

ACCEPTANCE TEST - A TEST OR SET OF TESTS PERFORMED TO DEMONSTRATE SATISFACTORY COMPLETION OF A PREDETERMINED TASK OR GROUP OF TASKS ON WHICH ACCEPTANCE IS DEPENDANT.

ACCESS POINT (AP) - THE CENTRAL OR CONTROL POINT IN A WIRELESS CELL THAT ACTS AS A LINK FOR TRAFFIC TO AND FROM WIRELESS DEVICES IN THE CELL. THE AP ALSO CONNECTS WIRELESS DEVICES TO THE WIRED PORTION OF THE NETWORK.

ACTIVE CIRCUIT - A VOICE/DATA/VIDEO CHANNEL CONNECTED TO A CIRCUIT.

ACTIVE EQUIPMENT - ENERGIZED EQUIPMENT USED FOR RECEIVING OR TRANSMITTING ANALOG OR DIGITAL SIGNALS.

ADMINISTRATION - THE METHODOLOGY DEFINING THE DOCUMENTATION REQUIREMENTS OF A CABLING SYSTEM AND ITS CONTAINMENT, THE LABELING OF FUNCTIONAL ELEMENTS AND THE PROCESS BY WHICH MOVES, ADDS, AND CHANGES ARE RECORDED. (ISO)

ALIEN CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS IN A GIVEN CABLE TO OTHER CIRCUITS IN ANOTHER CABLE.

ATTENUATION - THE DECREASE IN MAGNITUDE OF TRANSMISSION SIGNAL STRENGTH BETWEEN POINTS. EXPRESSED IN DB AS THE RATIO OF OUTPUT TO INPUT SIGNAL LEVEL.

ATTENUATION-TO-CROSSTALK RATION (ACR) - THE RATIO OBTAINED BY SUBTRACTING INSERTION LOSS (ATTENUATION [DB]) FROM NEAR-END CROSSTALK (DB). ACR IS NORMALLY STATED AT A GIVEN FREQUENCY. SEE SIGNAL-TO-NOISE RATIO.

BACKBONE - A FACILITY (E.G. PATHWAY, CABLE, OR CONDUCTORS) BETWEEN ANY OF THE FOLLOWING SPACES: TELECOMMUNICATIONS ENCLOSURES, TELECOMMUNICATIONS ROOMS, EQUIPMENT ROOMS, AND ENTRANCE FACILITIES.

BACKBONE BONDING CONDUCTOR - A COPPER CONDUCTOR EXTENDING FROM THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TO THE FARTHEST FLOOR TELECOMMUNICATIONS GROUNDING BUSBAR. (TIA)

BALANCED TWISTED-PAIR CABLE - A MULTI-CONDUCTOR CABLE COMPRISING TWO OR MORE COPPER CONDUCTORS TWISTED IN A MANNER DESIGNED TO CANCEL ELECTRICAL INTERFERENCE.

BANDWIDTH - A MEASURE OF THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. TYPICALLY EXPRESSED IN HERTZ. IT IS USED TO DENOTE THE POTENTIAL TRANSMISSION CAPACITY OF THE MEDIUM, DEVICE, OR SYSTEM.

BEND RADIUS - 1. MAXIMUM RADIUS THAT A CABLE CAN BE BENT TO AVOID PHYSICAL OR ELECTRICAL DAMAGE OR CAUSE ADVERSE TRANSMISSION PERFORMANCE. 2. RADIUS OF CURVATURE THAT A MEDIA CAN BEND WITHOUT SIGNAL DEGRADATION.

BICSI - AN INTERNATIONAL TELECOMMUNICATIONS ASSOCIATION.

BONDING - THE PERMANENT JOINING OF METALLIC PARTS TO FORM AN ELECTRICALLY CONDUCTIVE PATH THAT WILL ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY CURRENT LIKELY TO BE IMPOSED. (TIA)

BONDING CONDUCTOR (BC) - A CONDUCTOR USED SPECIFICALLY FOR THE PURPOSE OF BONDING.

BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BC-T) - A CONDUCTOR THAT INTERCONNECTS THE BUILDINGS SERVICE EQUIPMENT (POWER) GROUND TO THE TELECOMMUNICATIONS GROUNDING SYSTEM.

BORING - A METHOD TO DISPLACE EARTH UNDER THE GROUND WITHOUT BREAKING THE GROUND SURFACE (TRENCHING) OR CUTTING GROUND SURFACES (E.G. SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND ROAD SURFACES). NORMALLY, AS DIRT IS DISPLACED OR REMOVED, CONDUIT IS INSERTED.

CABLING SYSTEM - A SPECIFIC SYSTEM OF TELECOMMUNICATIONS CABLES, EQUIPMENT/PATCH CORDS, CONNECTING HARDWARE, AND OTHER COMPONENTS THAT IS SUPPLIED AS A SINGLE ENTITY.

CARD READER - A SECURITY SYSTEM DEVICE THAT READS CODED CARDS.

CATEGORY - A RATING THAT DEFINES THE PERFORMANCE OF CABLING COMPONENTS AND SYSTEMS.

CELL - THE FIXED AREA IN WHICH A WIRELESS DEVICES OPERATES.

COMMUNICATIONS - SEE TELECOMMUNICATIONS.

CROSS-CONNECT - A FACILITY ENABLING THE TERMINATION OF CABLE ELEMENTS AND THEIR INTERCONNECTION OR CROSS-CONNECTION. (TIA)

CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS TO OTHER CIRCUITS.

CUTOVER - THE PROCESS OF SWITCHING FROM OLD NETWORK COMPONENTS TO NEW NETWORK COMPONENTS.

DAISY-CHAIN TOPOLOGY - DEVICES ARE CONNECTED IN SERIES, ONE AFTER THE OTHER, AND THE TRANSMITTED SIGNALS GO TO THE FIRST DEVICES, THEN THE SECOND, ETC.

DATA - ELECTRONICALLY ENCODED INFORMATION. (TIA)

DATA COMMUNICATION - THE TRANSMISSION AND RECEPTION OF ELECTRONICALLY CODED INFORMATION.

DATA NETWORK - AN INTERCONNECTED SYSTEM OF COMPUTERS, PERIPHERALS, AND SOFTWARE OVER WHICH COMMANDS, FILES, AND MESSAGES ARE SENT AND RECEIVED.

DECIBEL (DB) - A LOGARITHMIC UNIT FOR MEASURING THE RELATIVE POWER OR STRENGTH OF A SIGNAL.

DELAY SKEW - THE DIFFERENCE IN PROPAGATION DELAY BETWEEN ANY TWO PAIRS WITHIN THE SAME CABLE SHEATH. (TIA)

DEMARICATION POINT (DP) - 1. A POINT WHERE THE OPERATIONAL CONTROL OR OWNERSHIP CHANGES. (TIA) 2. THE POINT OF INTERFACE BETWEEN SERVICE PROVIDERS AND CUSTOMER FACILITIES.

DI-ELECTRIC - 1. THE NONCONDUCTIVE PROPERTIES OF AN INSULATING MATERIAL THAT RESISTS THE PASSAGE OF ELECTRIC CURRENT. THE INSULATION SURROUNDING A COPPER CONDUCTOR IS KNOWN AS A DIELECTRIC. 2. A MATERIAL THAT IS NONMETALLIC AND NONCONDUCTIVE. 3. A NONCONDUCTOR OF DIRECT ELECTRIC CURRENT.

DIRECT-BURIED CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH, IN DIRECT CONTACT WITH THE SOIL. (TIA)

ELECTROMAGNETIC INTERFERENCE (EMI) - RADIATED OR CONDUCTED ELECTROMAGNETIC ENERGY THAT HAS AN UNDESIRABLE EFFECT ON ELECTRONIC EQUIPMENT OR SIGNAL TRANSMISSIONS. (TIA)

EQUAL LEVEL FAR-END CROSSTALK (ELFEXT) - CROSSTALK MEASURED AT THE OPPOSITE END FROM WHICH THE DISTURBING SIGNAL IS TRANSMITTED, NORMALIZED BY THE ATTENUATION CONTRIBUTION OF THE CABLE OR CABLING.

FAR-END CROSSTALK (FEXT) LOSS - A MEASURE OF THE UNWANTED SIGNAL COUPLING FROM A TRANSMITTER AT THE NEAR END INTO ANOTHER PAIR MEASURED AT THE FAR END, AND RELATIVE TO THE TRANSMITTED SIGNAL LEVEL. ALSO CALLED INPUT/OUTPUT FAR END CROSSTALK LOSS. (TIA)

FAULT TOLERANCE - THE ABILITY OF A SYSTEM TO CONTINUE OPERATIONS AFTER THE FAILURE OF ONE OR MORE COMPONENTS.

FIBER OPTICS - A COMMUNICATION SYSTEM THAT USES OPTICAL FIBER AS ITS MEDIUM.

GIGABIT PER SECOND (GB/S) - A TRANSMISSION RATE DENOTING ONE BILLION BITS PER SECOND.

GIGAHERTZ (GHZ) - A UNIT OF FREQUENCY DENOTING ONE BILLION CYCLES PER SECOND (HERTZ).

HERTZ (HZ) - 1. A UNIT OF MEASURE USED TO EXPRESS THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. THIS RANGE IS ALSO CALLED BANDWIDTH. 2. A UNIT OF FREQUENCY EQUAL TO ONE CYCLE PER SECOND.

HOME RUN - A PATHWAY OR CABLE BETWEEN TWO LOCATIONS WITHOUT A SPLICE OR INTERMEDIATE TERMINATIONS POINTS IN BETWEEN.

HORIZONTAL CABLE - 1. A PERMANENT ELEMENT OF THE HORIZONTAL CABLING THAT CONNECTS THE TELECOMMUNICATIONS OUTLET/CONNECTOR AT THE WORK AREA AND THE FIRST PIECE OF CONNECTING HARDWARE IN THE HORIZONTAL OR MAIN CROSS-CONNECT. 2. FOUR PAIR 24 AWG UNSHIELDED TWISTED PAIR (UTP).

HORIZONTAL CROSS-CONNECT - A GROUP OF CONNECTORS THAT ALLOWS EQUIPMENT AND BACKBONE CABLING TO BE CROSS-CONNECTED.

INNERDUCT - A NONMETALLIC RACEWAY, USUALLY CIRCULAR, PLACED WITHIN A LARGER PATHWAY. (TIA)

INTERMEDIATE CROSS-CONNECT (IC) - THE CONNECTION POINT BETWEEN A BACKBONE CABLE THAT EXTENDS FROM THE MAIN CROSS-CONNECT AND THE BACKBONE CABLE FROM THE HORIZONTAL CROSS-CONNECT.

LATENCY - THE TIME IT TAKES FOR A SIGNAL TO PASS THROUGH A DEVICE OR NETWORK.

LOW-VOLTAGE CABLING/CABLING SYSTEM - TELECOMMUNICATIONS SIGNALING (INCLUDES BUILDING AUTOMATION SIGNALING) VOLTAGE LEVELS ARE TYPICALLY POWER-LIMITED WHEN COMPARED TO ELECTRICAL POWER CIRCUITS THAT CAN VARY FROM 100 VOLTS ALTERNATING CURRENT (AC) TO 240 VOLTS AC IN COMMERCIAL BUILDINGS. CIRCUITS TYPICALLY USE AN INHERENTLY LIMITED POWER SOURCE WITHOUT OVER-CURRENT PROTECTION OR A NONINHERENTLY LIMITED POWER SOURCE WHERE OVERCURRENT PROTECTION IS REQUIRED. SINCE TELECOMMUNICATIONS CABLING SYSTEMS ARE NOT USED TO DISTRIBUTE ELECTRICAL POWER, THE SIGNALING THAT OCCURS ON THESE COPPER-BASED SYSTEMS IS GENERALLY DESCRIBED AS LOW VOLTAGE.

MAIN CROSS-CONNECT (MC) - THE CROSS-CONNECT NORMALLY LOCATED IN THE (MAIN) TELECOMMUNICATIONS EQUIPMENT ROOM (ER) FOR CROSS-CONNECTION AND INTERCONNECTION OF ENTRANCE CABLES, FIRST-LEVEL BACKBONE CABLES, AND EQUIPMENT CABLES.

NEAR-END CROSSTALK (NEXT) LOSS - 1. THE UNWANTED SIGNAL COUPLING BETWEEN PAIRS. IT IS MEASURED AT THE END OF A CABLE NEAREST THE POINT OF TRANSMISSION. CONTRAST WITH FAR-END CROSSTALK. 2. THE SIGNAL TRANSFER BETWEEN CIRCUITS AT THE SAME (NEAR) END OF THE CABLE.

NETWORK - A GROUP OF THREE OR MORE NODES THAT CAN COMMUNICATE WITH EACH OTHER, EITHER DIRECTLY THROUGH CABLING OR INDIRECTLY THROUGH REPEATERS TO SEPARATE CABLING.

OUTSIDE PLANT (OSP) - TELECOMMUNICATIONS INFRASTRUCTURE DESIGNED FOR INSTALLATION EXTERIOR TO BUILDINGS.

PAIR - TWO INSULATED WIRES TWISTED AROUND EACH OTHER.

PAIR TWIST - THE UNIFORM TWIST OF AN INSULATED COPPER PAIR THAT HELPS TO REDUCE THE NEGATIVE EFFECTS OF CAPACITANCE IMBALANCE AND ELECTROMAGNETIC INDUCTION.

PATCH CORD - A LENGTH OF CABLE WITH A PLUG ON ONE OR BOTH ENDS.

PATCH PANEL - A CONNECTING HARDWARE SYSTEM THAT FACILITATES CABLE TERMINATION AND CABLING ADMINISTRATION USING PATCH CORDS.

PATHWAY - 1. A SEQUENCE OF CONNECTIONS THAT PROVIDES THE CONNECTIVITY BETWEEN DEVICES ON A NETWORK OR BETWEEN NETWORKS ON AN INTERNETWORK. 2. THE VERTICAL AND HORIZONTAL ROUTE OF THE TELECOMMUNICATIONS CABLE. 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA) 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA)

POWER SUM - USED TO SPECIFY A COMBINATION CROSSTALK FROM MULTIPLE SOURCES.

POWER SUM ATTENUATION-TO-CROSSTALK RATIO - A RATIO IN DB, DETERMINED BY SUBTRACTING THE INSERTION LOSS FROM TH EPOWER SUM NEAR-END CROSSTALK LOSS. (TIA)

POWER SUM EQUAL LEVEL FAR-END CROSSTALK (PSELFEXT) - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE FAR-END, AND NORMALIZED TO THE RECEIVED SIGNAL LEVEL. (TIA)

POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE NEAR-END. (TIA)

PULL TENSION - THE PULLING FORCE THAT CAN BE APPLIED TO A CABLE. (TIA)

PUNCH DOWN - THE PROCESS OF TERMINATING COPPER CABLE CONDUCTORS ON INSULATION DISPLACEMENT CONNECTION TERMINALS BY USE OF A HANDHELD TOOL.

QUEUEING - A TECHNIQUE THAT REDUCES TRANSMISSION DELAYS BY CLASSIFYING AND SORTING DATA PRIOR TO PROCESSING BY THE TRANSMITTING DEVICE.

RACEWAY - ANY ENCLOSED CHANNEL DESIGNED FOR HOLDING WIRES OR CABLES. (TIA)

RADIO FREQUENCY INTERFERENCE - ELECTROMAGNETIC INTERFERENCE WITHIN THE FREQUENCY BAND FOR RADIO TRANSMISSION.

RETURN LOSS - A RATIO, EXPRESSED IN DB, OF THE POWER OF THE OUTGOING SIGNAL TO THE POWER OF THE REFLECTED SIGNAL. (TIA)

REVERSED PAIR - A CONDITION IN WHICH THE CONDUCTORS IN A PAIR ARE TERMINATED IN THE WRONG SEQUENCE.

DEFINITIONS (CONTINUED)

RIBBON CABLE - AN ASSEMBLY OF CONDUCTORS LAID SIDE BY SIDE IN A GEOMETRIC PLANE AND FASTENED TOGETHER.

SCALABILITY - THE ABILITY OF A NETWORK TO GROW WITHOUT DEGRADATION OF QUALITY.

SERVICE LOOP - A SURPLUS OF CABLE AT THE POINT OF TERMINATION TO FACILITATE POTENTIAL FUTURE CHANGES.

SHIELDED ENCLOSURE CABINET - A METAL ELECTRONICS CABINET CONSTRUCTED WITH WELDED SEAMS AND CONDUCTIVE GASKETS ON THE DOORS THAT SERVE AS AN EFFECTIVE SHIELD AGAINST ELECTROMAGNETIC RADIATION.

SPLIT PAIR - TRANSPOSITION OF TWO CONDUCTORS OF SEPARATE PAIRS.

STAR TOPOLOGY - A NETWORK TOPOLOGY IN WHICH SERVICES ARE DISTRIBUTED FROM A CENTRAL POINT.

STRUCTURED CABLING SYSTEM - THE COMPLETE COLLECTIVE CONFIGURATION OF TELECOMMUNICATIONS CABLING AND ASSOCIATED HARDWARE AT A GIVEN LOCATION.

SWEEP - BEND THAT HAS A GENTLE ARC RATHER THAN A SHARP BEND.

TELECOMMUNICATIONS - ANY TRANSMISSION, EMISSION, AND RECEPTION OF SIGNS, SIGNALS, WRITINGS, IMAGES, AND SOUNDS. THAT IS, INFORMATION OF ANY NATURE BY CABLE, RADIO, OPTICAL, OR OTHER ELECTROMAGNETIC SYSTEMS. (TIA)

TELECOMMUNICATIONS BONDING BACKBONE - A CONDUCTOR THAT INTERCONNECTS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) TO THE TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). (TIA)

TELECOMMUNICATIONS EQUIPMENT ROOM - A CONDUCTOR INSTALLED FROM EACH PIECE OF EQUIPMENT TO THE TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.

TELECOMMUNICATIONS CABINET - AN ENCLOSURE USED FOR TERMINATING TELECOMMUNICATIONS CABLES, WIRING, AND CONNECTION DEVICES WITH A HINGED COVER, USUALLY FLUSH-MOUNTED IN THE WALL. (TIA)

TELECOMMUNICATIONS ENCLOSURE - A CASE OR HOUSING FOR TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS ENTRANCE FACILITY - AN ENTRANCE TO A BUILDING FOR BOTH PUBLIC AND PRIVATE NETWORK SERVICE CABLES (INCLUDING WIRELESS) INCLUDING THE ENTRANCE POINT AT THE BUILDING WALL AND CONTINUING TO THE ENTRANCE ROOM OR SPACE. (TIA) 2. A FACILITY THAT PROVIDES ALL NECESSARY MECHANICAL AND ELECTRICAL SERVICES, THAT COMPLIES WITH ALL RELEVANT REGULATIONS, FOR THE ENTRY OF TELECOMMUNICATIONS CABLES INTO A BUILDING. (ISO)

TELECOMMUNICATIONS EQUIPMENT ROOM - AN ENVIRONMENTALLY CONTROLLED CENTRALIZED SPACE FOR TELECOMMUNICATIONS EQUIPMENT THAT USUALLY HOUSES A MAIN OR INTERMEDIATE CROSS-CONNECT. (TIA)

TELECOMMUNICATIONS GROUNDING BUSBAR - A COMMON POINT OF CONNECTION FOR TELECOMMUNICATIONS SYSTEM AND EQUIPMENT BONDING TO GROUND, AND LOCATED IN THE TELECOMMUNICATIONS ROOM OR EQUIPMENT ROOM.

TELECOMMUNICATIONS INFRASTRUCTURE - A COLLECTION OF THOSE TELECOMMUNICATIONS COMPONENTS, EXCLUDING EQUIPMENT, THAT TOGETHER PROVIDE THE BASIC SUPPORT FOR THE DISTRIBUTION OF ALL INFORMATION WITHIN A BUILDING OR CAMPUS.

TELECOMMUNICATIONS MAINTENANCE HOLE - A VAULT LOCATED IN THE GROUND OR EARTH AS PART OF A UNDERGROUND DUCT SYSTEM AND USED TO FACILITY PLACING, CONNECTORIZATION, AND MAINTENANCE OF CABLES AS WELL AS THE PLACING OF ASSOCIATED EQUIPMENT, IN WHICH IT IS EXPECTED THAT A PERSON WILL ENTER TO PERFORM WORK. (TIA)

TELECOMMUNICATIONS MEDIA - WIRE, CABLE, OR CONDUCTORS USED FOR TELECOMMUNICATIONS. (TIA)

TELECOMMUNICATIONS OUTLET/CONNECTOR - A CONNECTING DEVICE IN THE WORK AREA ON WHICH HORIZONTAL CABLE OR OUTLET CABLE TERMINATES.

TELECOMMUNICATION ROOM - AN ENCLOSED ARCHITECTURAL SPACE FOR HOUSING TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS SPACE - AN AREA USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE (E.G., COMMON EQUIPMENT ROOMS, EQUIPMENT ROOMS, COMMON TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ROOMS, WORK AREAS, MAINTENANCE HOLES/HANDHOLES). (TIA)

TRANPOSED PAIRS - WHEN TWO PAIRS OF CONDUCTORS ARE TERMINATED IN EACH OTHER'S LOCATION.

UNDERGROUND - REFERS TO CONDUIT AND MAINTENANCE HOLES SYSTEMS INSTALLED BELOW THE SURFACE OF THE GROUND.

UNDERGROUND CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH IN A TROUGH OR DUCT THAT ISOLATES THE CABLE FROM DIRECT CONTACT WITH THE SOIL. (TIA)

UTILITY COLUMN - AN ENCLOSED PATHWAY EXTENDING FROM THE CEILING TO FURNITURE OR TO THE FLOOR THAT FORMS A PATHWAY FOR ELECTRICAL WIRING, TELECOMMUNICATIONS CABLE, OR BOTH. (TIA)

WORK AREA (WORK STATION) - A BUILDING SPACE WHERE THE OCCUPANTS INTERACT WITH TELECOMMUNICATIONS TERMINAL EQUIPMENT. (TIA)

WORK AREA CABLE (CORD) - A CABLE CONNECTING THE TELECOMMUNICATIONS OUTLET/CONNECTOR TO THE TERMINAL EQUIPMENT.

WORK AREA OUTLET - A CONNECTING DEVICE FOR TERMINATION OF HORIZONTAL MEDIA.

ABBREVIATIONS

- 8P8C - EIGHT PIN, EIGHT CONNECTOR UTP CABLE TERMINATION
- ACR - ATTENUATION-TO-CROSSTALK RATIO
- ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
- AWG - AMERICAN WIRE GAUGE
- BAS - BUILDING AUTOMATION SYSTEM
- BC - BONDING CONDUCTOR
- BCT - BONDING CONDUCTOR FOR TELECOMMUNICATIONS
- BICSI - BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
- CO-OSP - CUSTOMER-OWNED OUTSIDE PLANT
- DB - DECIBEL
- DEMARC - DEMARICATION POINT
- DPS - DOOR POSITION SWITCH
- EAC - ELECTRONIC ACCESS CONTROL
- EF - ENTRANCE FACILITY
- EIA - ELECTRONIC INDUSTRIES ALLIANCE
- EMI - ELECTROMAGNETIC INTERFERENCE
- ER - TELECOMMUNICATIONS EQUIPMENT ROOM
- FCC - FEDERAL COMMUNICATIONS COMMISSION
- GB - GIGABIT
- GHZ - GIGAHERTZ
- HC - HORIZONTAL CROSS-CONNECT
- HZ - HERTZ
- IBC - INTERCONNECTING BONDING CONDUCTOR
- IC - INTERMEDIATE CROSS-CONNECT
- IDC - INSULATION DISPLACEMENT CONNECTION (OR)
- IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
- KB - KILOBIT
- KB - KILOBYTE
- KHZ - KILOHERTZ
- KM - KILOMETER
- LEC - LOCAL EXCHANGE CARRIER
- LAN - LOCAL AREA NETWORK
- LASER - LIGHT AMPLIFICATION BY STIMULATED EMISSION OF RADIATION
- LED - LIGHT-EMITTING DIODE
- MB - MEGABIT
- MC - MAIN CROSS-CONNECT
- MH - AMERICAN NATIONAL STANDARDS MAINTENANCE HOLE
- MHZ - MEGAHERTZ
- MUTO - MULTI-USER TELECOMMUNICATIONS OUTLET
- MUTOA - MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
- NOS - NETWORK OPERATING SYSTEM
- NEC - NATIONAL ELECTRIC CODE
- NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
- NTS - NETWORK TRANSPORT SYSTEMS
- OS - OPERATING SYSTEM
- PSACR - POWER SUM ATTENUATION TO CROSSTALK RATIO
- PSELFEXT - POWER SUM EQUAL LEVEL FAR-END CROSSTALK
- QOS - QUALITY-OF-SERVICE
- RCDD - REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
- RFI - RADIO FREQUENCY INTERFERENCE
- RFID - RADIO FREQUENCY IDENTIFICATION
- RGB - RED, GREEN, BLUE
- SOMET - SYNCHRONOUS OPTICAL NETWORK
- SPOOL - SIMULTANEOUS PERIPHERAL OPERATION ONLINE
- TBB - TELECOMMUNICATIONS BONDING BACKBONE
- TDMM - TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
- TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
- TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION
- TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
- TR - TELECOMMUNICATIONS ROOM
- UTP - UNSHIELDED TWISTED PAIR
- VCSEL - VERTICAL CAVITY SURFACE EMITTING LASER
- VGA - VIDEO GRAPHICS ARRAY
- VOD - VIDEO-ON-DEMAND
- VOIP - VOICE OVER INTERNET PROTOCOL
- WAP - WIRELESS ACCESS POINT
- WLAN - WIRELESS LOCAL AREA NETWORK
- X - CROSS-CONNECT

TELECOMMUNICATIONS SYS.

		SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
	TELECOMMUNICATIONS OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	PROVIDE SINGLE REDUCER
	TELECOMMUNICATIONS COUNTERTOP OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	2" ABV. BACKSPASH TO BOTTOM	PROVIDE SINGLE REDUCER ALIGN WITH POWER RECEPTACLE
	TELECOMMUNICATIONS AUDIO / VIDEO OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(2) 1-1/4" CONDUITS, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	--
	WIRELESS ACCESS POINT OUTLET (CEILING MOUNTED)	CABLING (UTP)	--	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	--
	CABLE TRAY	CABLE TRAY AND ASSOCIATED HARDWARE	--	+96" A.F.F. TO BOTTOM	REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
	TELECOMMUNICATIONS CABINET	CABINET (AS SPECIFIED)	--	FLOOR MOUNTED	--
	TELECOMMUNICATIONS RACK	RACK (AS SPECIFIED)	--	FLOOR MOUNTED	--

SOUND SYSTEMS

		SCOPE OF WORK	ROUGH-IN INFORMATION	MOUNTING HEIGHT	NOTES
	INTERCOM SPEAKER (CEILING MOUNTED)	CABLING SPEAKER	--	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	--
	INTERCOM SPEAKER (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	--
	INTERCOM SPEAKER HORN (CEILING MOUNTED)	CABLING SPEAKER	--	CEILING MOUNTED SEE T-SERIES DRAWINGS	--
	INTERCOM SPEAKER HORN (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	--
	MICROPHONE OUTLET (# INDICATES JACK QTY.)	ROUGH-IN CABLING MIC CONNECTOR	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+18" A.F.F. WALL MTD.	--
	VOLUME CONTROL	ROUGH-IN CABLING, VOLUME CONTROL	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	--
	LOCAL SOUND REINFORCEMENT SPEAKER (CEILING MOUNTED)	CABLING SPEAKER	--	CEILING MOUNTED SEE RCP	--
	LOCAL SOUND REINFORCEMENT SPEAKER (WALL MOUNTED)	ROUGH-IN CABLING SPEAKER	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	--
	SOUND SYSTEM CENTRAL EQUIPMENT CABINET	ROUGH-IN CABLING CABINET	--	WALL MOUNTED	--
	CALL-IN BUTTON	ROUGH-IN CABLING BUTTON DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	--
	BUTTON	ROUGH-IN CABLING BUTTON DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	--
	WALL MOUNTED CLOCK	ROUGH-IN CABLING CLOCK	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	--
	RINGER / BELL DEVICE	ROUGH-IN CABLING BELL DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	--

SECURITY SYSTEMS

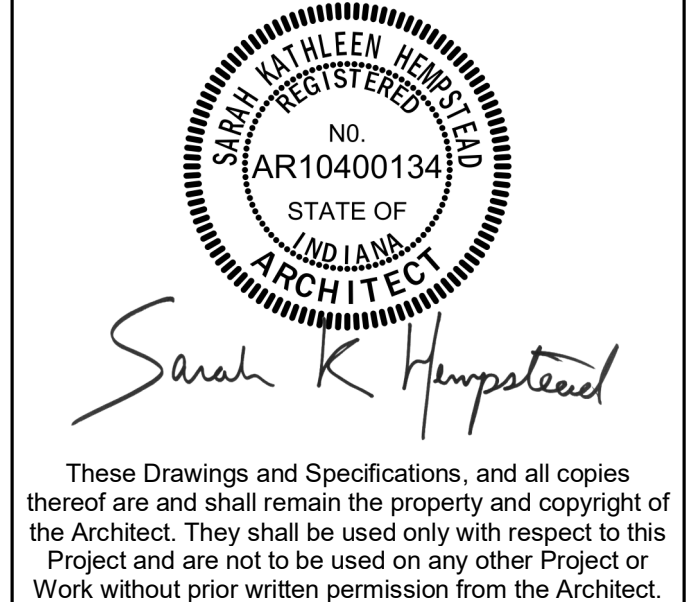
		SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
	SURVEILLANCE CAMERA (CEILING MOUNTED)	UTP CABLING,	--	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	--
	SURVEILLANCE CAMERA (WALL MOUNTED)	ROUGH-IN, UTP CABLING,	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+96" A.F.F. WALL MTD.	--
	CARD READER	ROUGH-IN CABLING	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	--
	ELECTRONIC ACCESS CONTROL INTERFACE	CABLING CONTROL MODULE	--	ABOVE ACCESSIBLE CEILING	SEE EAC DOOR SCHEMATIC DIAGRAM
	ACCESS CONTROL	ROUGH-IN CABLING CONTROL DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	--
	SECURITY CONTROL	ROUGH-IN CABLING CONTROL DEVICE	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+46" A.F.F. WALL MTD.	--

VIDEO SYSTEMS

		SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
	CEILING MOUNTED DISPLAY MONITOR	MOUNT, CABLING,	--	AS NOTED ON PLANS	--
	WALL- MOUNTED DISPLAY MONITOR	ROUGH-IN, MOUNT CABLING,	(2) 1 1/4" CONDUIT, (1) 2-GANG BOX	AS NOTED ON PLANS	--
	CEILING-MOUNT PROJECTOR	ROUGH-IN, MOUNT, CABLING, PROJECTOR	PROJECTOR CEILING PAN	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	SEE PROJECTOR PAN DETAIL
	WALL-MOUNT PROJECTOR	ROUGH-IN, MOUNT CABLING, PROJECTOR	(2) 1 1/4" CONDUIT, (1) 2-GANG BOX	--	--



Project No. 2021-036.GAH
Project Date 01.08.2026
Produced JLB



#	Revision	Date
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3705 IN-16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2

SYMBOLS & ABBREVIATIONS

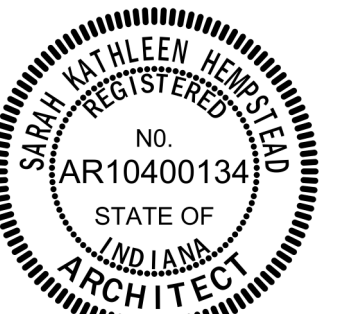
T-001.2



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Sarah K. Hempstead

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3705 IN-16
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**NEWTON COUNTY
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**HAZELDEN
ESTATE
RESTORATION -
UTILITY SITE
PREPARATION -
BID PACKAGE 2**

**TELECOMMUNICATIONS
SCHEMATICS**

T-602.2

SIZING OF THE TBB	
TBB LENGTH (FEET)	TBB SIZE (AWG)
LESS THAN 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 kcmil
126-150	300 kcmil
151-175	350 kcmil
176-250	500 kcmil
251-300	600 kcmil
Greater than 301	750 kcmil
CONFIRM ALL SIZING WITH J-STD-607-A	

ABBREVIATIONS:
 MC - MAIN CROSS-CONNECT
 HC - HORIZONTAL CROSS-CONNECT
 ER - EQUIPMENT ROOM
 TR - TELECOMMUNICATIONS ROOM
 TBB - TELECOMMUNICATIONS BONDING BACKBONE
 TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
 TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
 BC - TELECOMMUNICATIONS BONDING CONDUCTOR

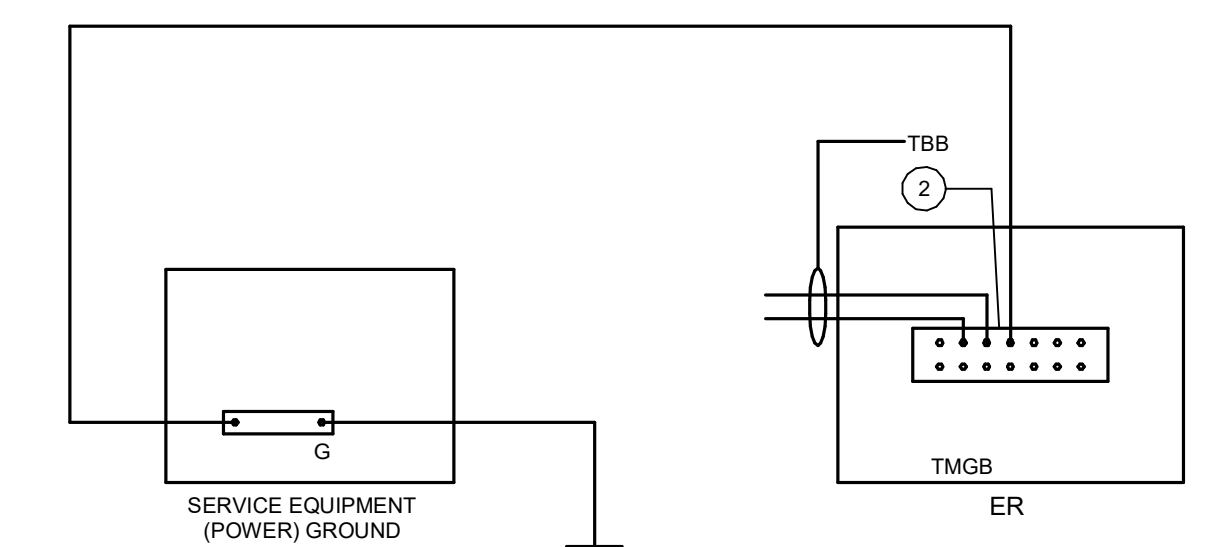
DRAWING NOTES:

1. PROVIDE TELECOMMUNICATIONS BACKBONE CABLING AND GROUNDING / BONDING TBB BETWEEN THE MC AND EACH HC/IC AS FOLLOWS:
 FIBER OPTIC CABLING (FOI)
 TBB SIZED PER STANDARDS
2. WITHIN THE TELECOMMUNICATIONS EQUIPMENT ROOM (ER) AND EACH TELECOMMUNICATIONS ROOM (TR) BOND THE TMGB AND EACH TGB TO THE FOLLOWING:
 - STRUCTURAL STEEL
 - ALL METALLIC MATERIAL
 - CABLE TRAY
 - EQUIPMENT CABINETS AND RACKS

GENERAL NOTES:

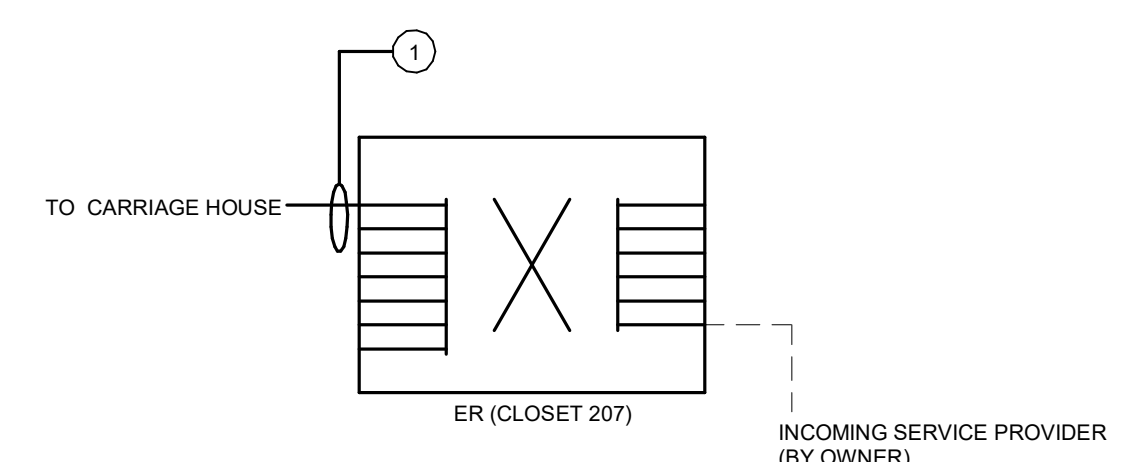
1. ALL WORK INDICATED SHALL BE FULLY COMPLIANT WITH THE FOLLOWING STANDARDS.
 A. ANSI / TIA / EIA - 568 - B COMMERCIAL BUILDING TELECOMMUNICATIONS STANDARD PART 1, PART 2 AND PART 3 INCLUDING ALL SUB-PARTS AND ADDENDUMS.
 B. TIA - 569 - B COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES INCLUDING ALL SUB-PARTS AND ADDENDUMS.
 C. ANSI / TIA / EIA - 509 - A ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING ALL SUB-PARTS AND ADDENDUMS.
 D. ANSI - J - STD - 607 - A COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
2. ROUTE ALL TBB ALONG PRIMARY PATHWAY WITH TELECOMMUNICATIONS CABLING.
3. COORDINATE SPECIFIC EQUIPMENT ELEVATIONS WITH ARCHITECT ENGINEER.

1A BACKBONE / GROUNDING SCHEMATICS
NOT TO SCALE



IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE TELECOMMUNICATIONS MANAGER.
PROVIDE THE ABOVE LABEL ON ALL TMGB / TGB

GROUNDING



BACKBONE

HAZELDEN ESTATE RESTORATION - UTILITY SITE PREPARATION - BID PACKAGE 2
TELECOMMUNICATIONS SCHEMATICS
T-602.2
DATE: 01/08/2026
DRAWN BY: JLB
CHECKED BY: JLB
PROJECT NO: 2021-036.GAH



GENERAL SITE NOTES	
#	NOTES
A	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS, SCHEMATICS, REQUIREMENTS, ETC. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC.

TELECOMMUNICATIONS SITE PLAN NOTES	
#	NOTES
1	PROVIDE 2" UNDERGROUND CONDUIT AS SPECIFIED.

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TELECOMMUNICATIONS SITE PLAN
TS101.2

THIS IS A TELECOMMUNICATIONS SITE PLAN. IT IS NOT A CONSTRUCTION DOCUMENT. CONSULT THE ARCHITECT FOR MORE INFORMATION. THE ARCHITECT'S OFFICE SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE ARCHITECT'S OFFICE SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.