

# NEWTON COUNTY BOARD OF COMMISSIONERS

## HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK

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

# BID PACKAGE 5

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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### 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.

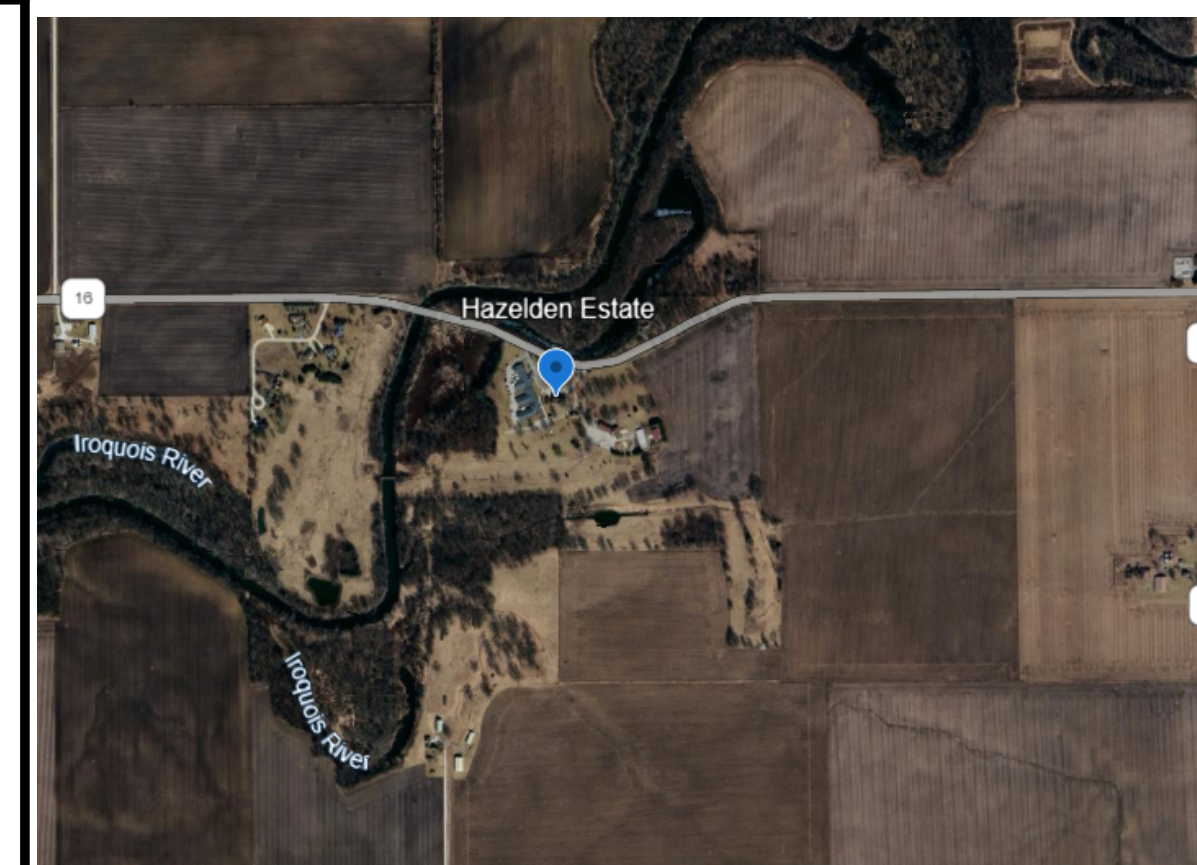
Each Contractor shall refer to the Project Manual for cleaning and disposal requirements.

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.

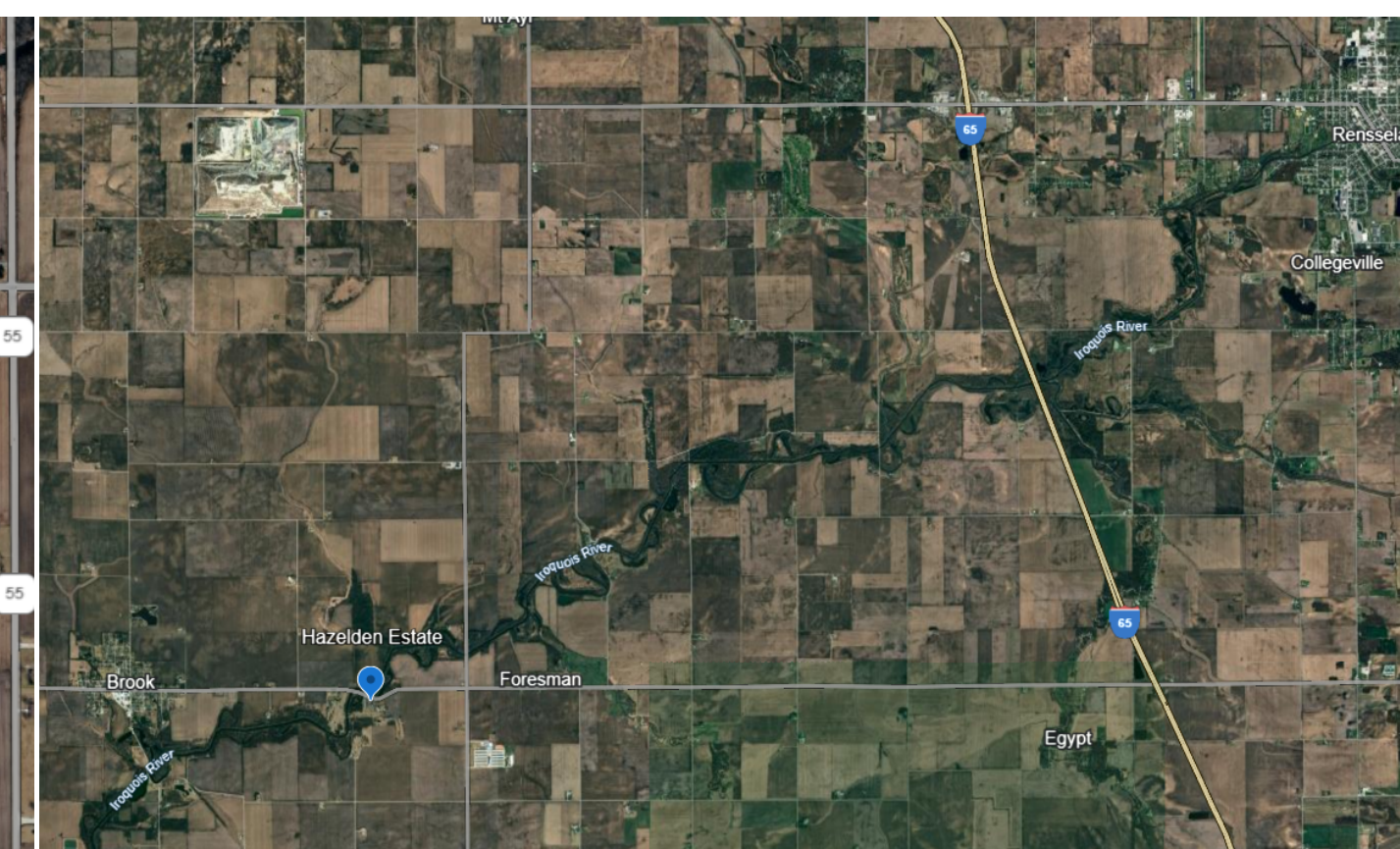
Each Contractor shall coordinate respective cutting and patching Work with the other Prime Contracts.

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



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

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

Professional Architect Seal: Sarah K. Hempstead, No. AR10400134, State of Indiana, Registered Architect.

**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 - SUPPLEMENTAL SITE WORK

G-000.5

# NEWTON COUNTY BOARD OF COMMISSIONERS HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

01.08.2026

2021-036.GAH

## General Notes

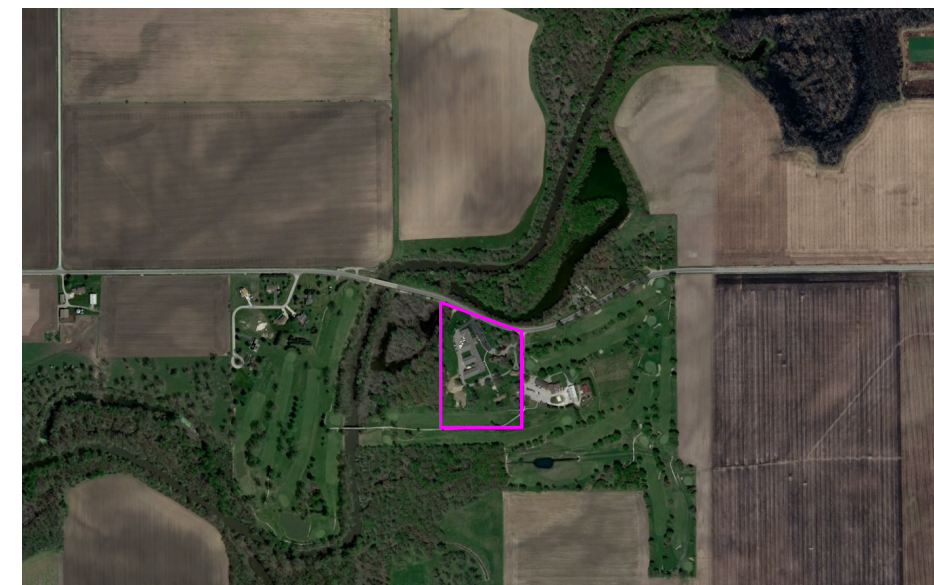
- Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations 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.

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

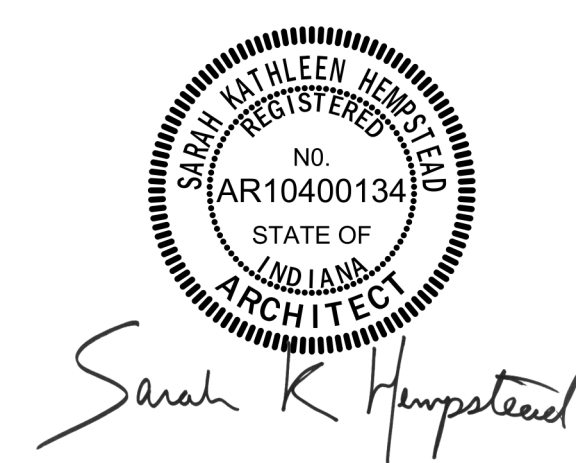
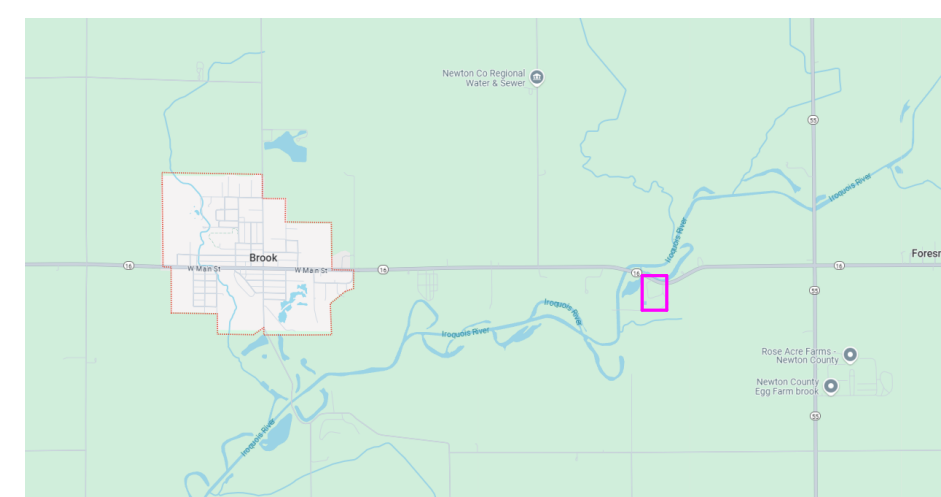
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LP501.5	PLANTING DETAILS

## Vicinity Map



## Thoroughfare Map



*Sarah K. Hempstead*



*Kyle E. Miller*



**SCHMIDT**  
ASSOCIATES

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NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

COVER SHEET

CG-000.5

5

4

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2

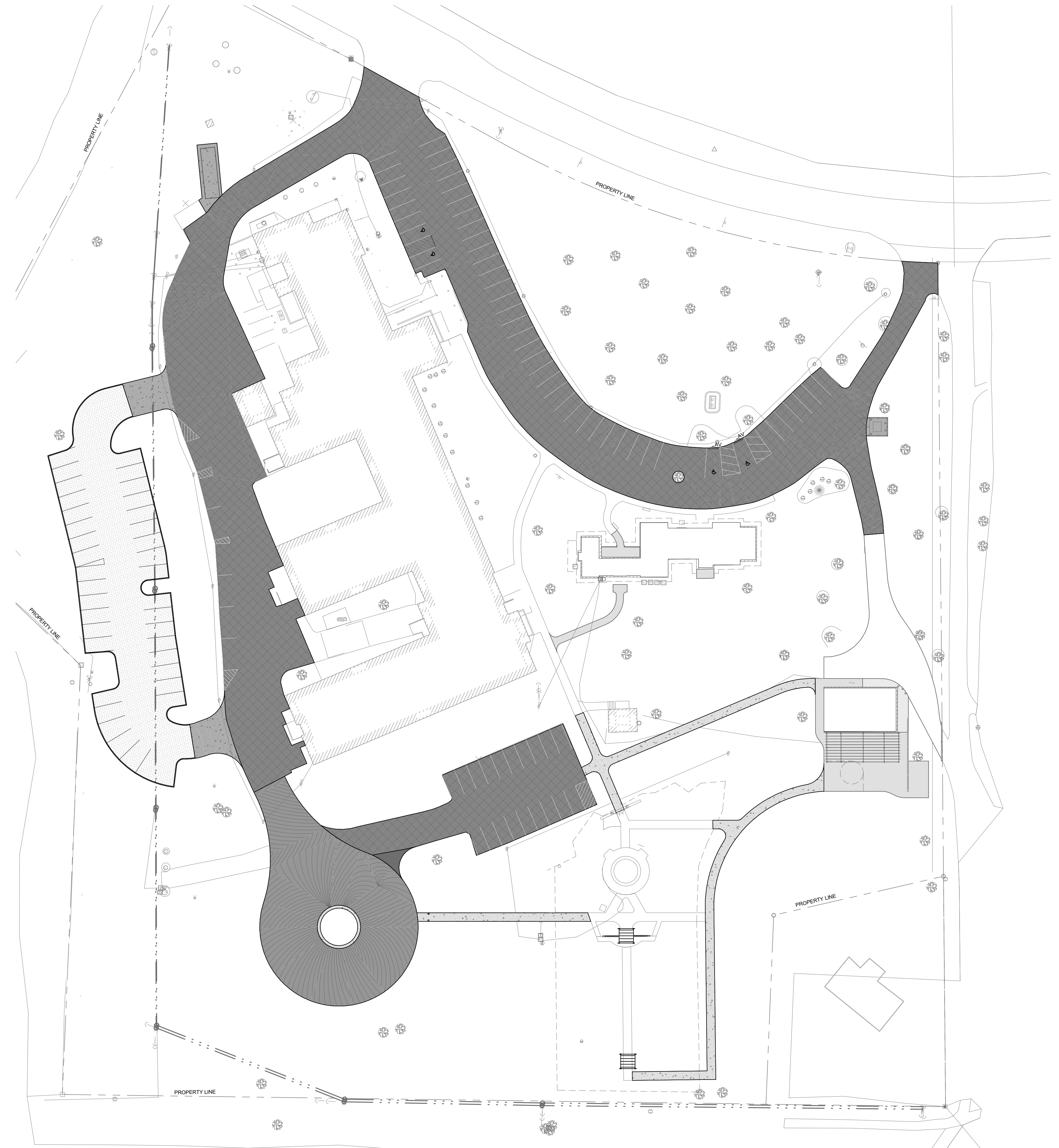
1

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



*Kyle E. Miller*

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#	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
DENO	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



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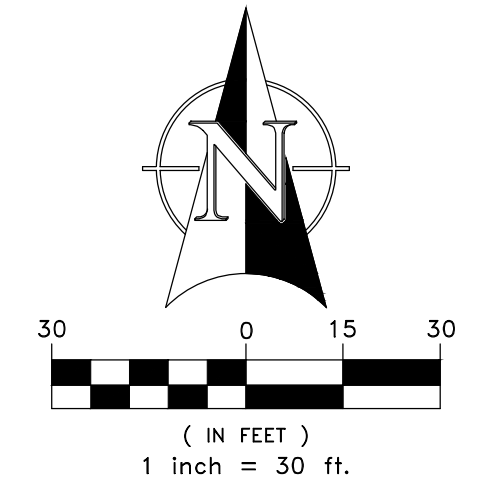
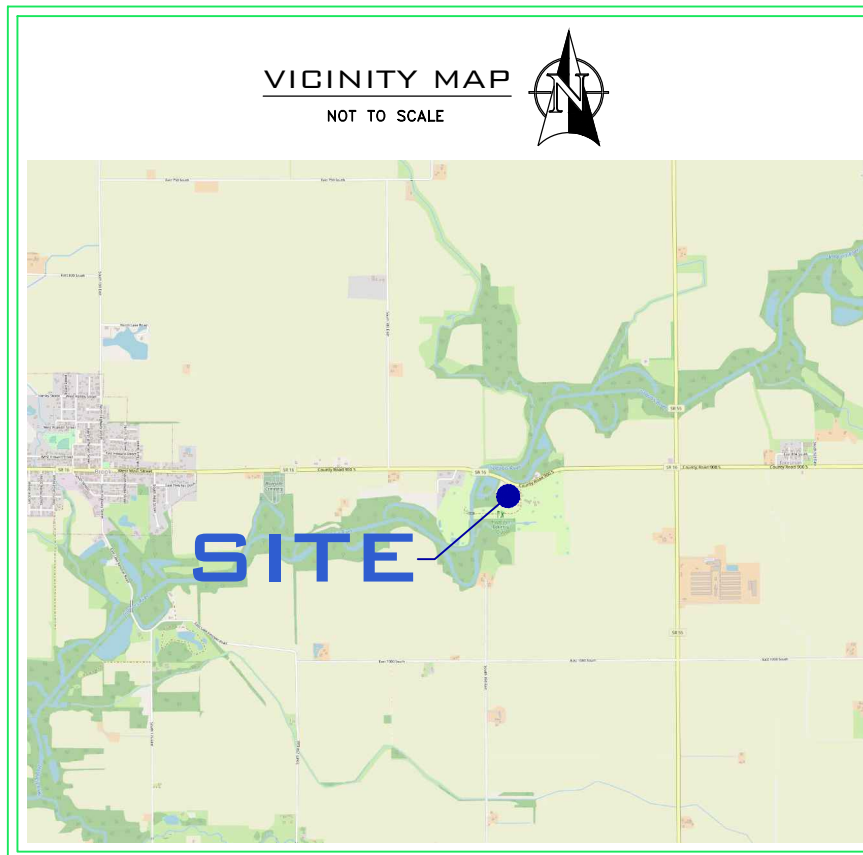
NEWTON  
 COUNTY BOARD  
 OF  
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HAZELDEN ESTATE  
 RESTORATION -  
 SUPPLEMENTAL SITE  
 WORK -  
 BID PACKAGE 5

SITE GENERAL  
 NOTES AND  
 ABBREVIATIONS  
 C-001.5



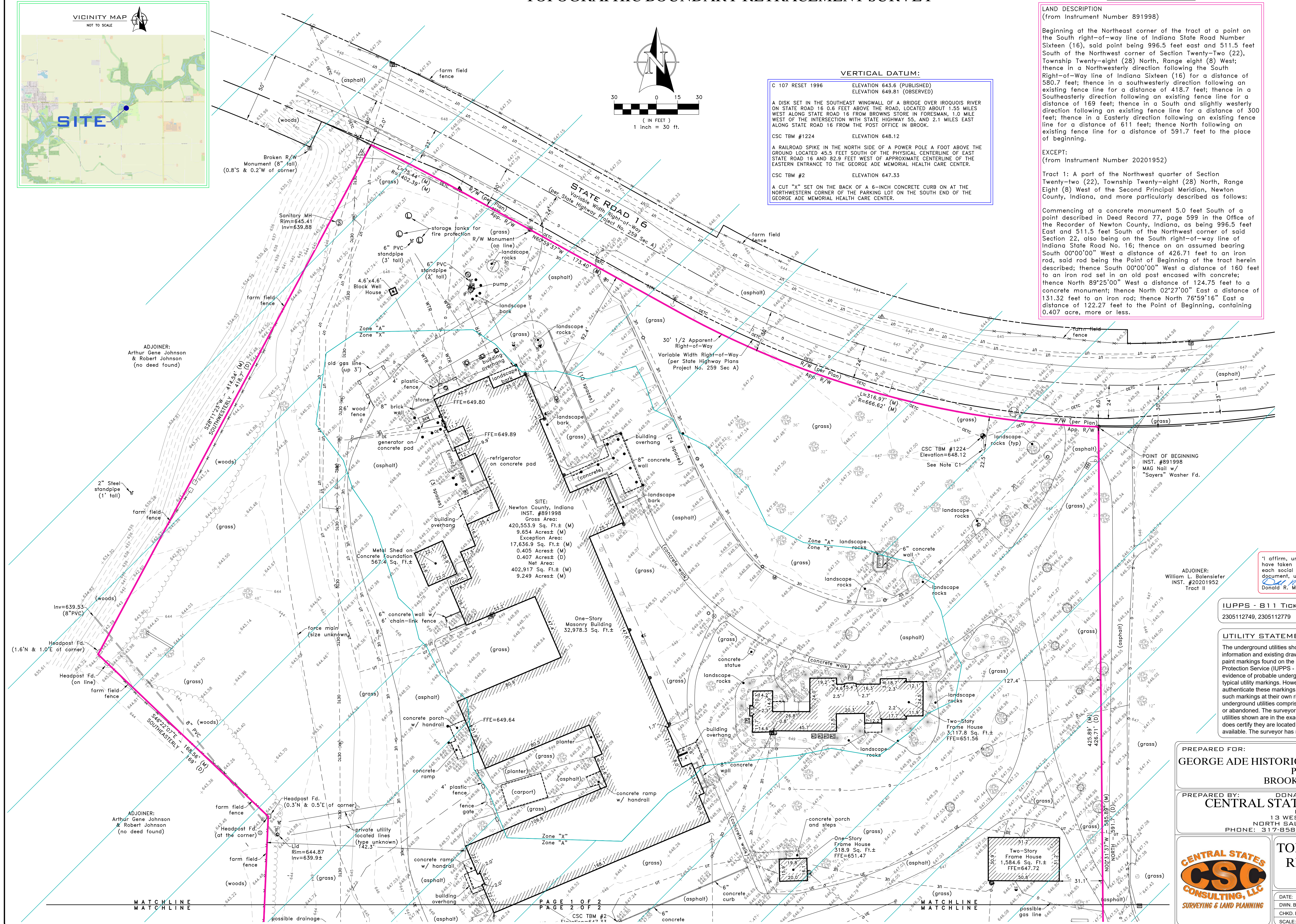
# TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY



**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

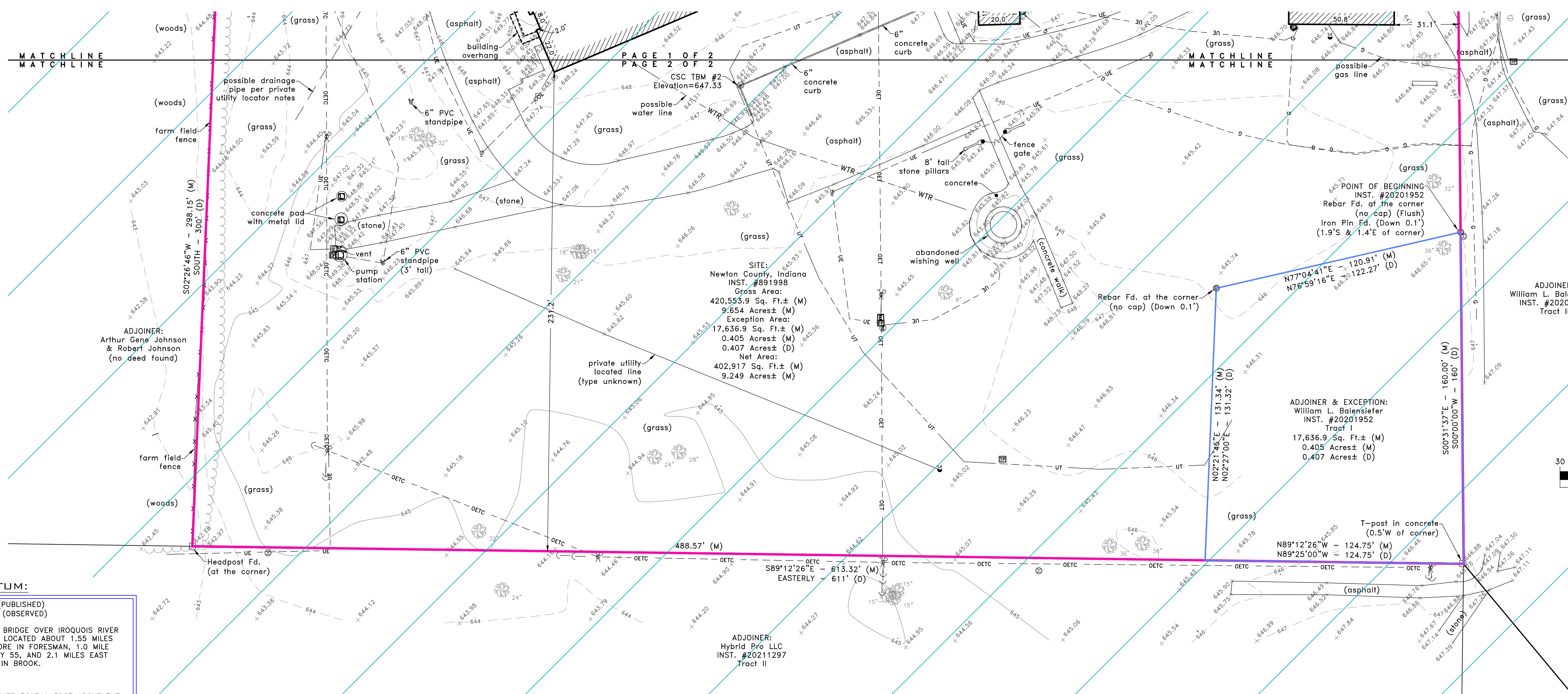
**DATE:** 06-12-2023  
**DWN. BY:** JLM  
**CHKD. BY:** DRM  
**SCALE:** 1" = 30'  
**PROJECT NUMBER:** 23-029  
**SHEET 1 OF 2**

MATCHLINE

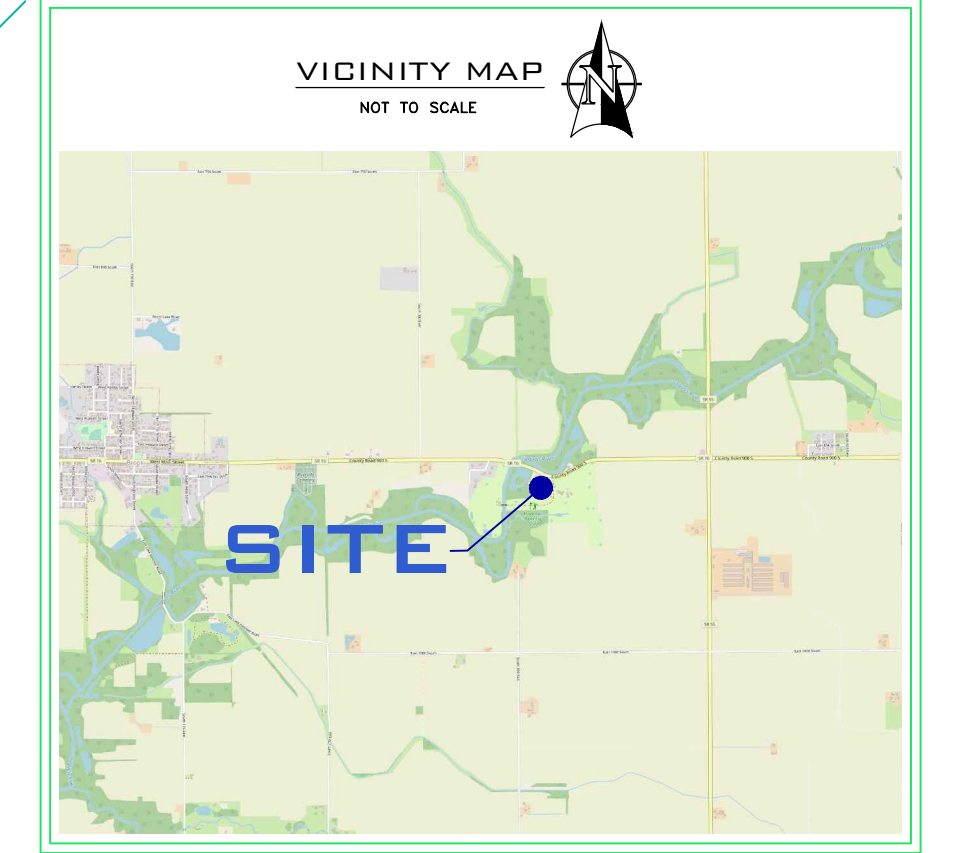
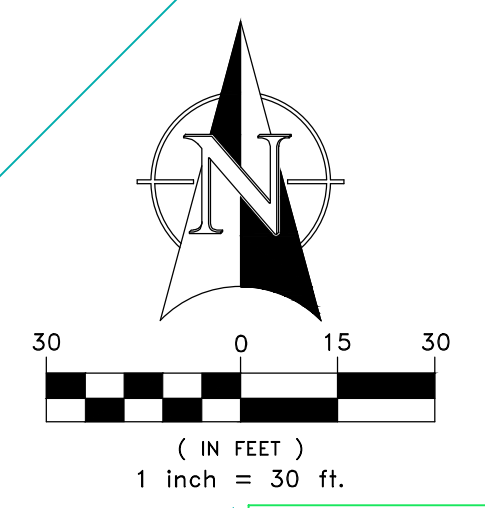
PAGE 1 OF 2  
 PAGE 2 OF 2

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
---	whitified clay pipe
---	reinforced concrete pipe
---	PVC
---	polyethylene coated pipe
---	HDPE
---	high-density polyethylene pipe
---	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



"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 NOTES**

1. REFERENCE C-001 FOR GENERAL DEMOLITION PLAN NOTES.
2. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ALL DEMOLITION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID TO FULLY UNDERSTAND WHAT ITEMS ARE IN THE WAY OF NEW CONSTRUCTION. ONLY THOSE ITEMS UNDERGROUND AND NOT INDICATED ANYWHERE IN CONTRACT DOCUMENTS WILL BE CONSIDERED UNFORESEEN CONDITIONS. CHANGE ORDERS WILL NOT BE ISSUED FOR VISIBLE ITEMS.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL MATERIALS INDICATED ON THE PLAN. DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN ACCORDANCE WITH APPLICANT STATE AND FEDERAL GUIDELINES AND PROCEDURES.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES, PLANTS AND STRUCTURES ON AND AROUND THE SITE.
5. ALL TOPSOIL IN AREAS SUBJECT TO CONSTRUCTION SHALL BE STRIPPED AND STOCKPILED FOR REPLACEMENT DURING FINISH GRADING.

**DEMOLITION LEGEND**

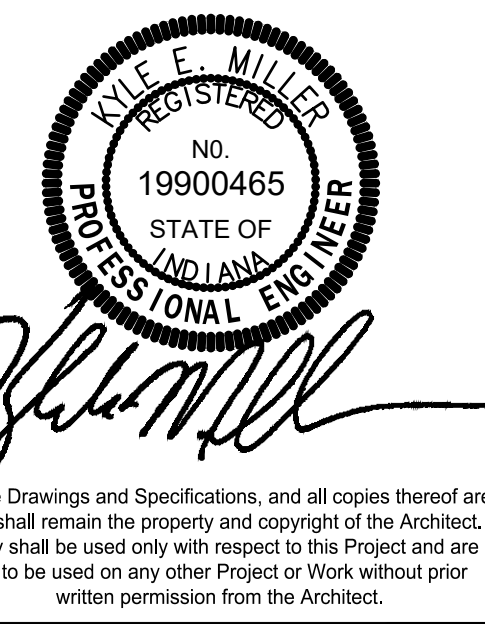
- SAW CUT AND REMOVE CONCRETE PAVEMENT/CURB. TO BE DONE BY COUNTY
- SAW CUT AND REMOVE ASPHALT. TO BE DONE BY COUNTY
- REMOVE STONE PATH. TO BE DONE BY COUNTY

**DEMOLITION KEY NOTES**

- REMOVE TREE IN ITS ENTIRETY
- TRIM BRANCHES WHERE NECESSARY. COORDINATE WITH CL101
- FIELD VERIFY SIDEWALKS AND GARDEN INSTALLED AS PART OF RECENT PROJECT
- VERIFY FORCE MAIN DEPTH AND LOCATION. PROTECT DURING CONSTRUCTION
- REMOVE EXISTING FOUNTAIN'S WATER LINE
- TREE HAS BEEN REMOVED SINCE SURVEY
- REMOVE CURB



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 -  
 SUPPLEMENTAL  
 SITE WORK -  
 BID PACKAGE 5

DEMOLITION PLAN  
 CD101.5

1A DEMOLITION PLAN  
 1" = 30'

5

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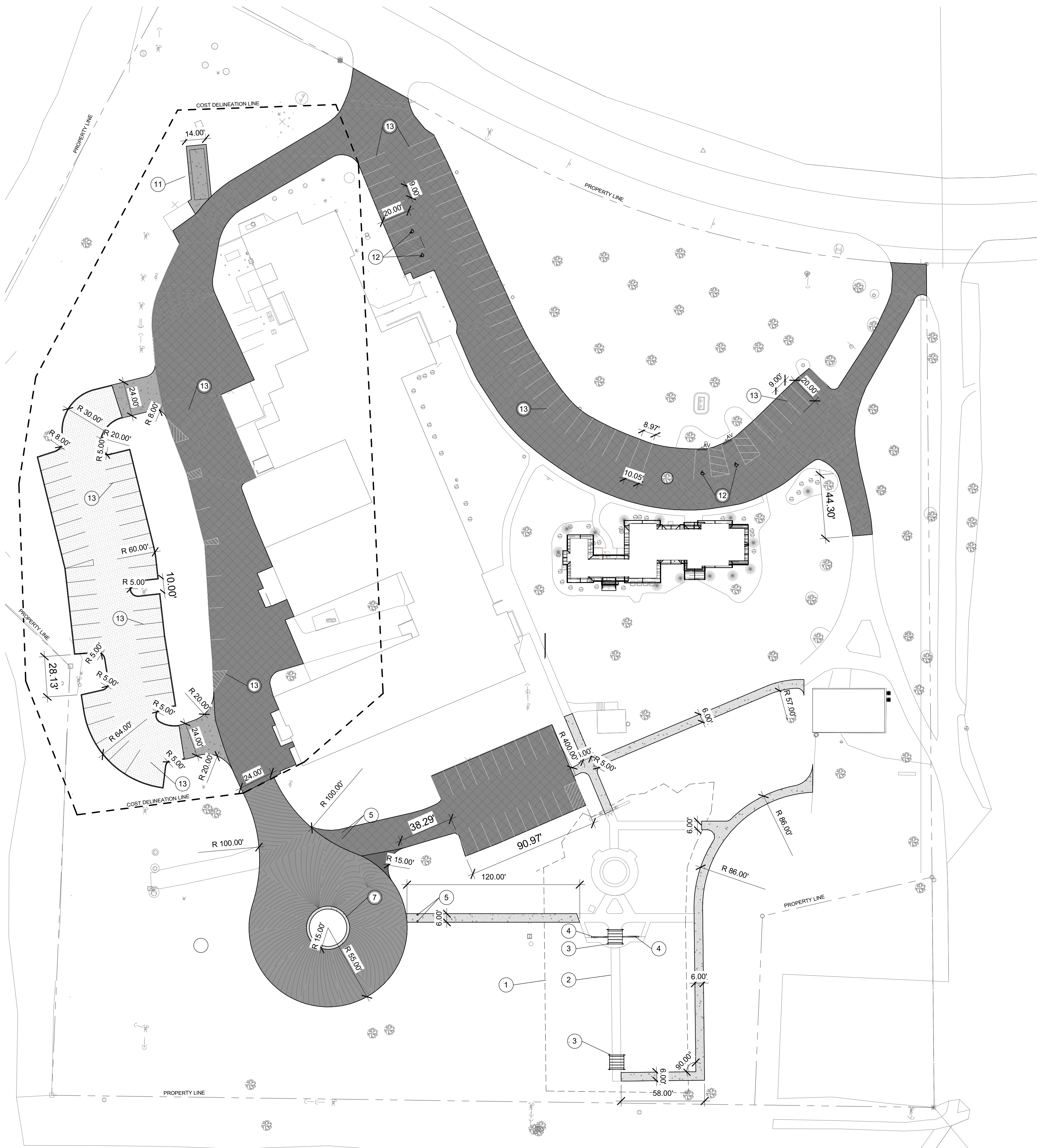
1

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**1 FULL 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

**FULL SITE LAYOUT NOTES**

Key	Note
1	DASH LINE FOR REFERENCE ONLY TO SHOW OUTLINE OF GARDEN PROJECT'S INDIANA
2	GARDEN PROJECT WAS RECENTLY COMPLETED UNDER DIFFERENT CONTRACT. FIELD VERIFY WORK COMPLETED.
3	PERGOLA. SEE SPECS AND DETAIL
4	DECORATIVE SCREEN WALL. SEE SPECS AND DETAIL
5	BOLLARD. SEE DETAIL 2A/501.5 AND SPECS
6	VEHICULAR GATE. SEE SPECS AND DETAIL
7	ROLL CURB. SEE DETAIL 1D/CL501.5 AND SPECS
8	DECORATIVE 6" TALL FENCE. SEE SPECS
9	DECORATIVE 6" TALL 12" WIDE DOUBLE SWING GATE - SEE SPECS
10	DUMPSTER PROVIDED BY OWNER
11	STORAGE CONTAINER PROVIDED BY OWNER
12	ACCESSIBLE PARKING SPACE WITH AISLE. SEE SPECS AND DETAILS 2B/CL501.5 AND 3A/CL501.5
13	PARKING STRIPING. SEE SPECS AND DETAIL 5B/CL501.5



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



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#	Revision	Date

3705 IN-16  
Brook, IN 47922

**NEWTON COUNTY BOARD OF COMMISSIONERS**

HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

SITE LAYOUT PLAN SUPPLEMENTAL SITE WORK  
**CL101.5**

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1



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



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#	Revision	Date

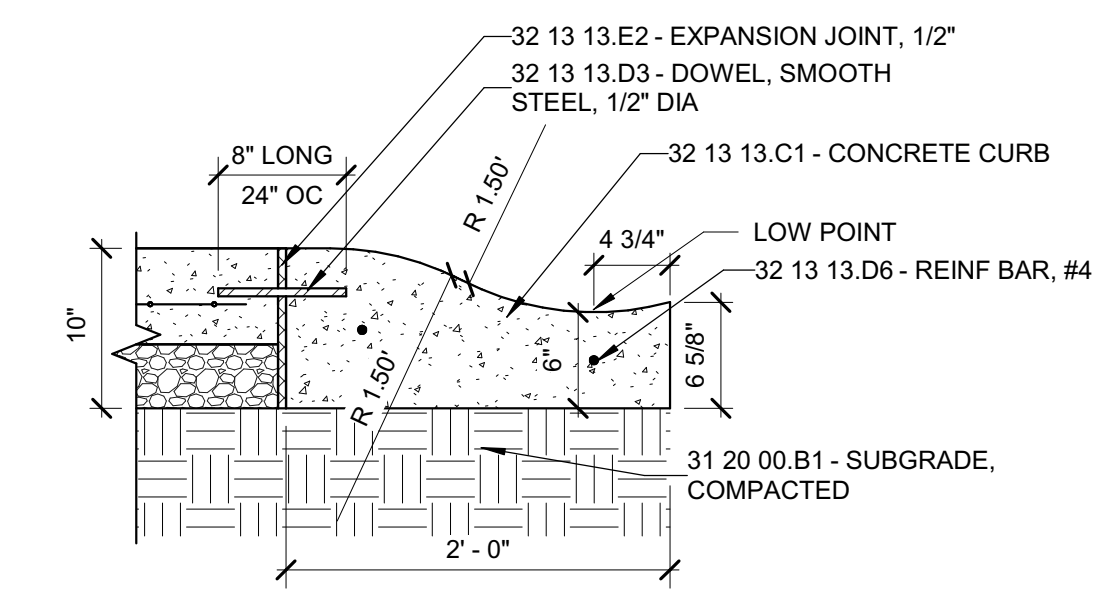
3705 IN-16  
 Brook, IN 47922

**NEWTON COUNTY BOARD OF COMMISSIONERS**

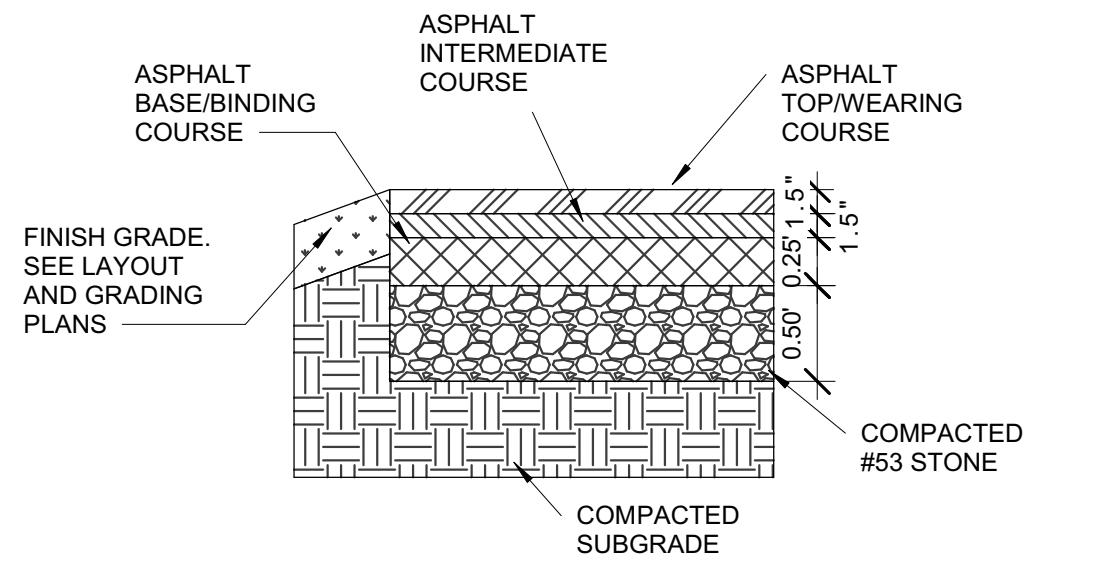
**HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5**

**SUPPLEMENTAL SITE WORK DETAILS**

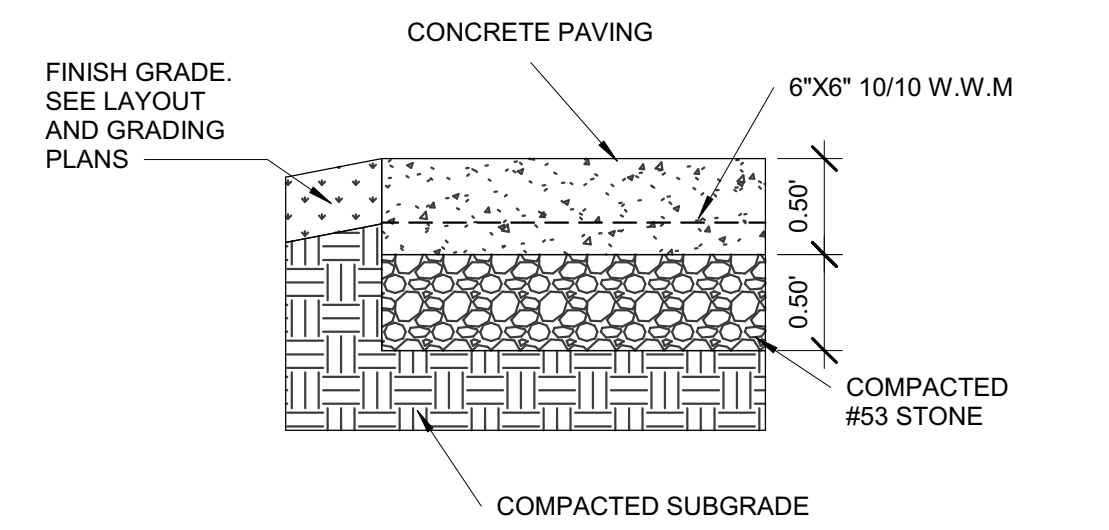
**CL501.5**



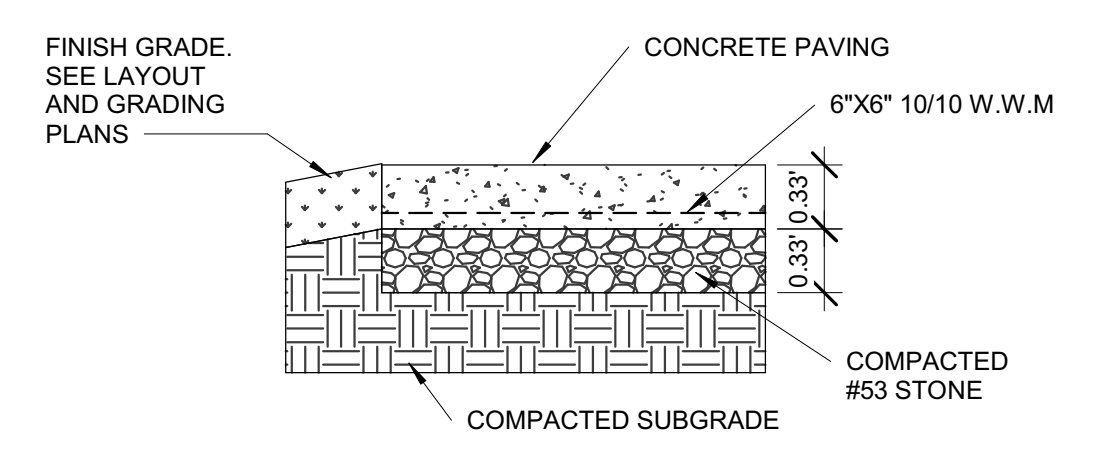
**1D CURB, ROLL**  
 1" = 1'-0"



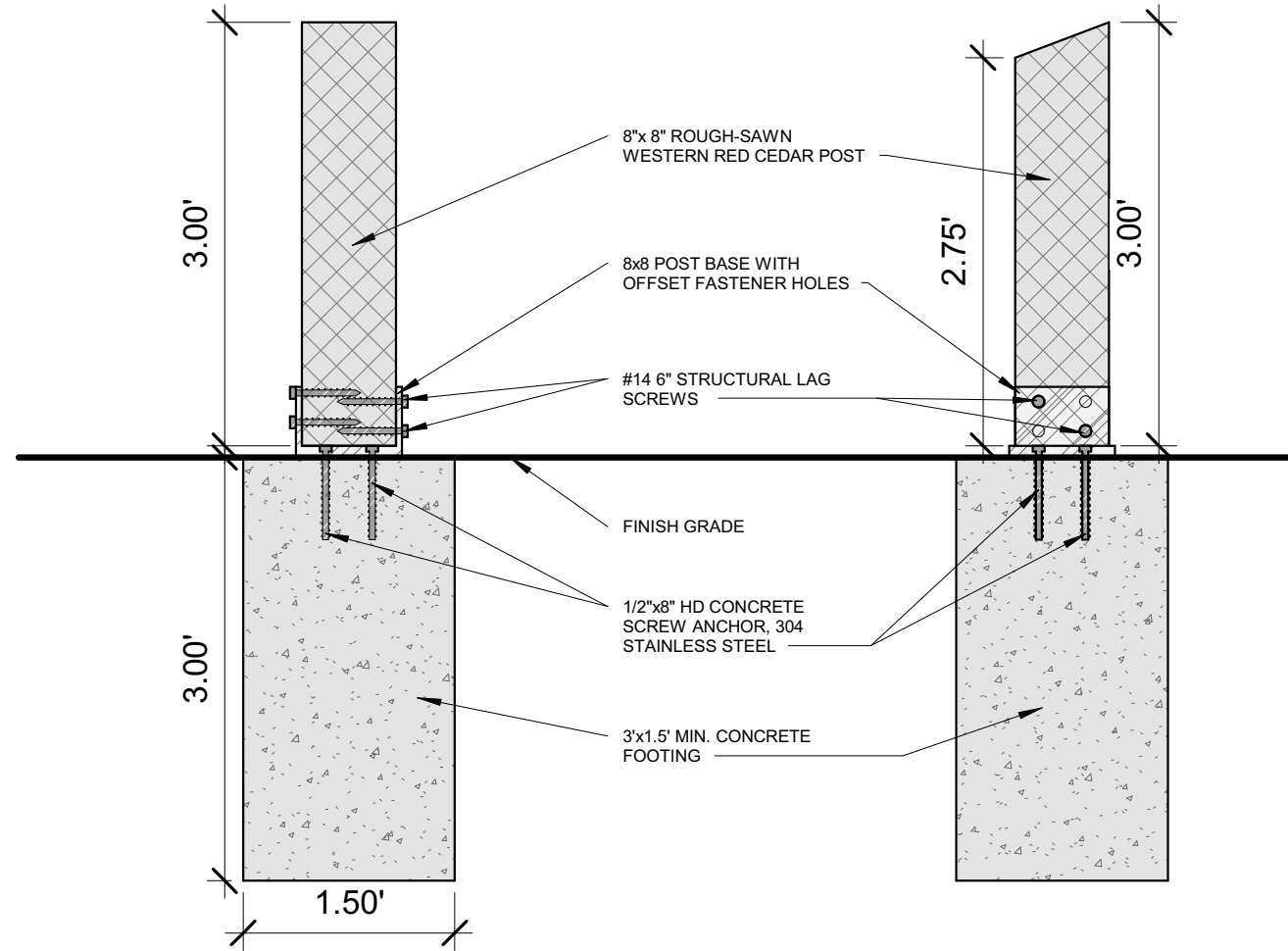
**1C HEAVY DUTY ASPHALT**  
 1" = 1'-0"



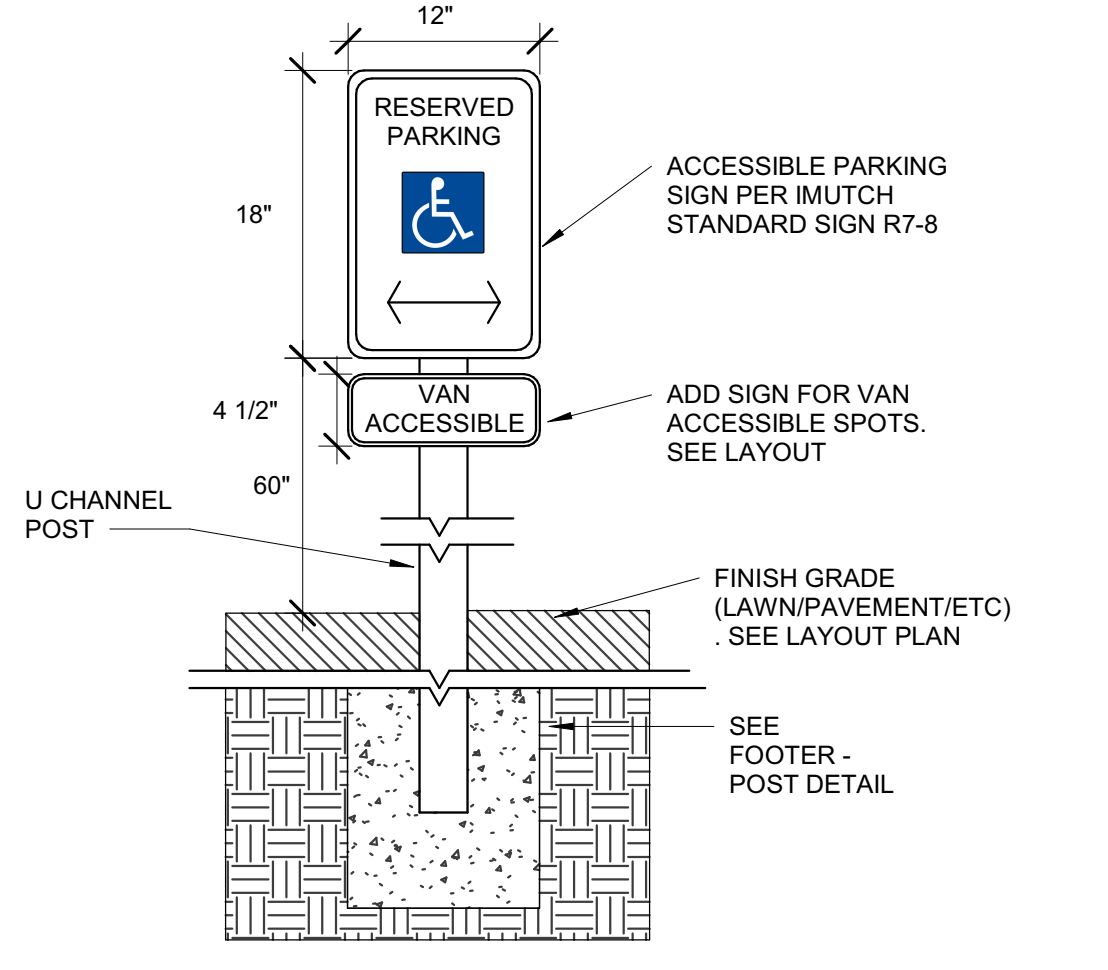
**1B HEAVY DUTY CONCRETE**  
 1" = 1'-0"



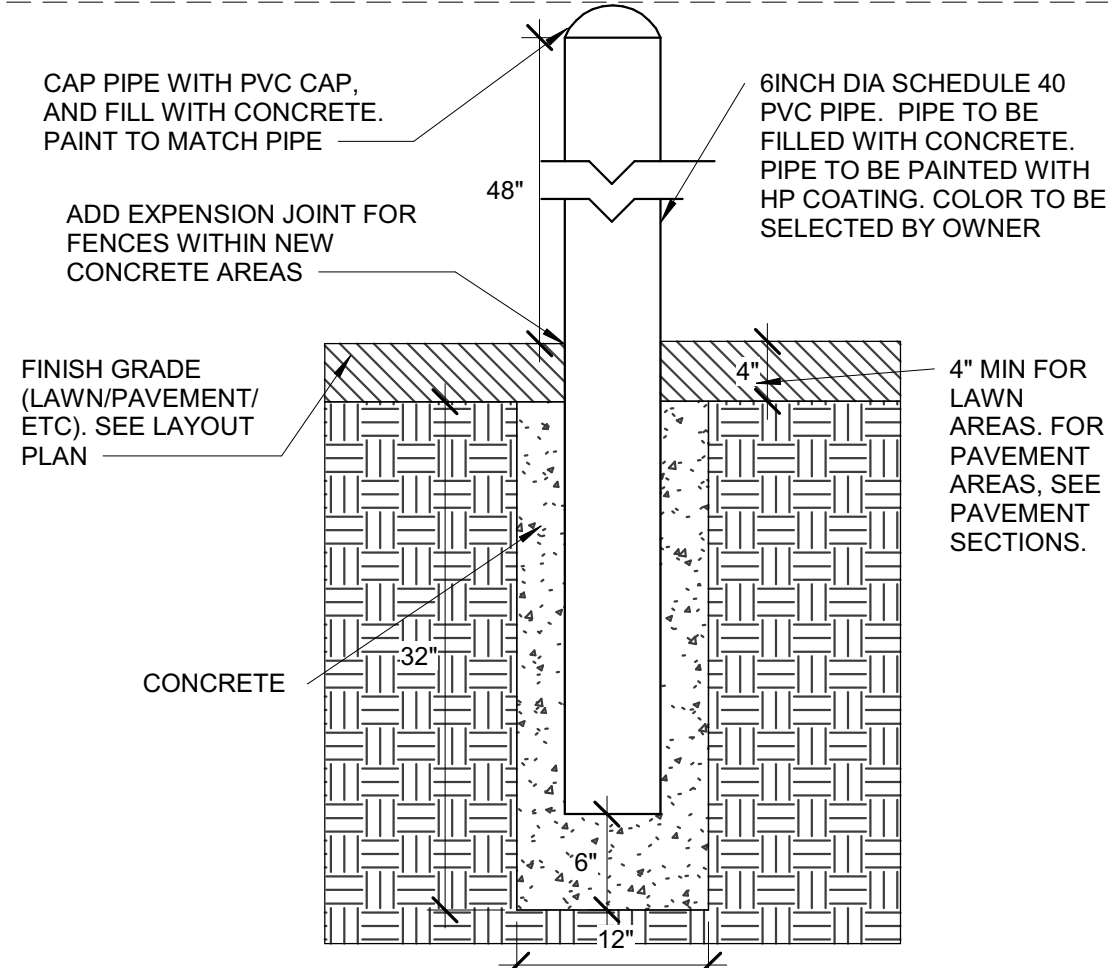
**1A STANDARD CONCRETE PAVING**  
 1" = 1'-0"



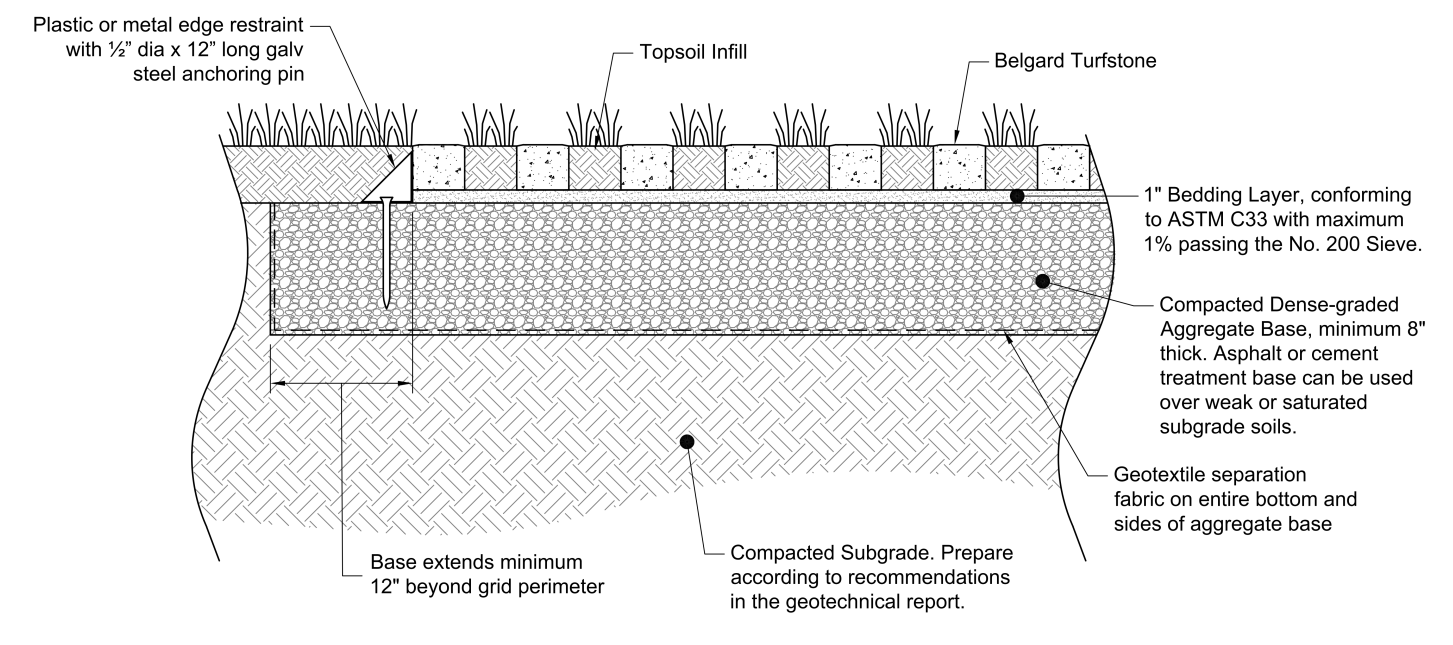
**2C WOODEN BOLLARD**  
 3/4" = 1'-0"



**2B ADA - SIGN DETAIL**  
 1" = 1'-0"



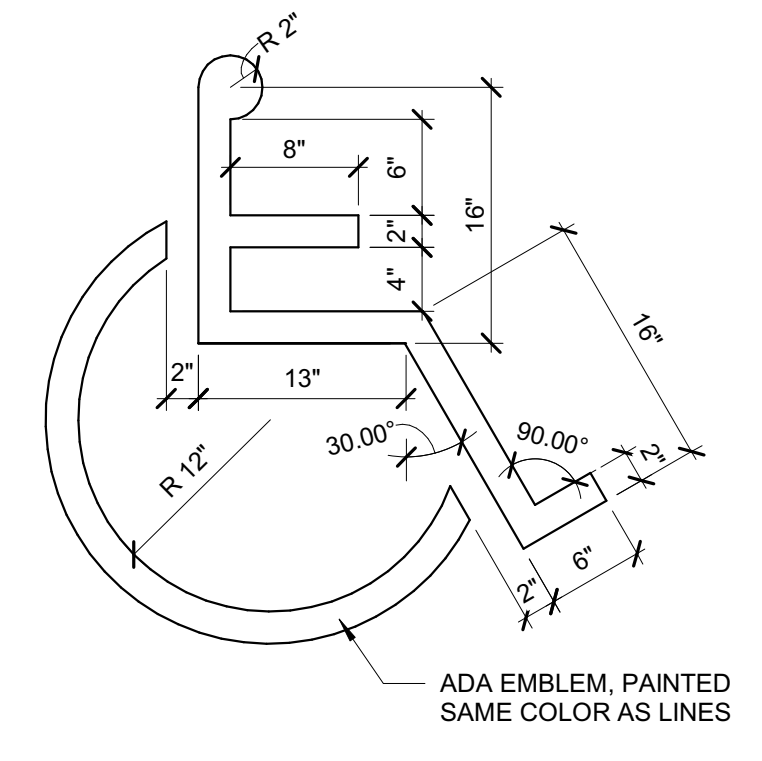
**2A BOLLARD - PVC PIPE**  
 1" = 1'-0"



Design Notes:

- Cross section as shown is suitable for light vehicular applications, including parking lots, emergency access or residential driveways.
- Depth of aggregate base subject to site specific conditions (traffic loading, soil conditions, groundwater levels, climatic conditions).
- An edge restraint for all Turfstone applications is required. Commercial vehicular applications should utilize a 6" wide concrete curb for containment.

**5A Turfstone Grid Paver**  
 1 1/2" = 1'-0"



**3A ADA PARKING EMBLEM**  
 1" = 1'-0"

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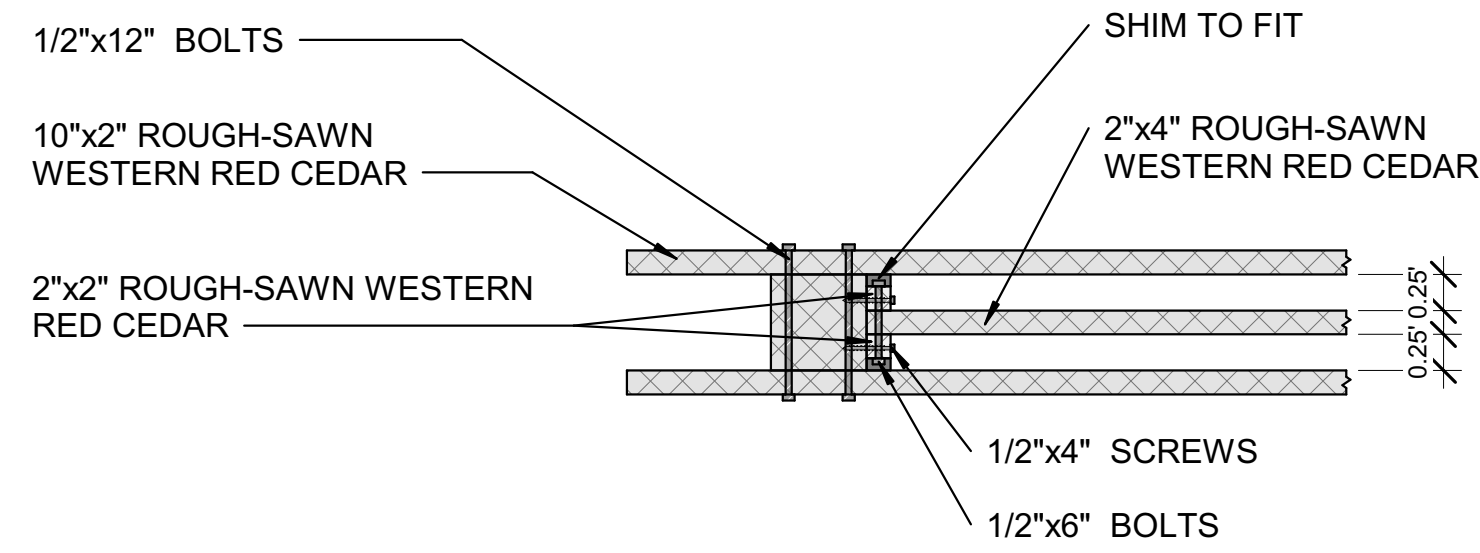
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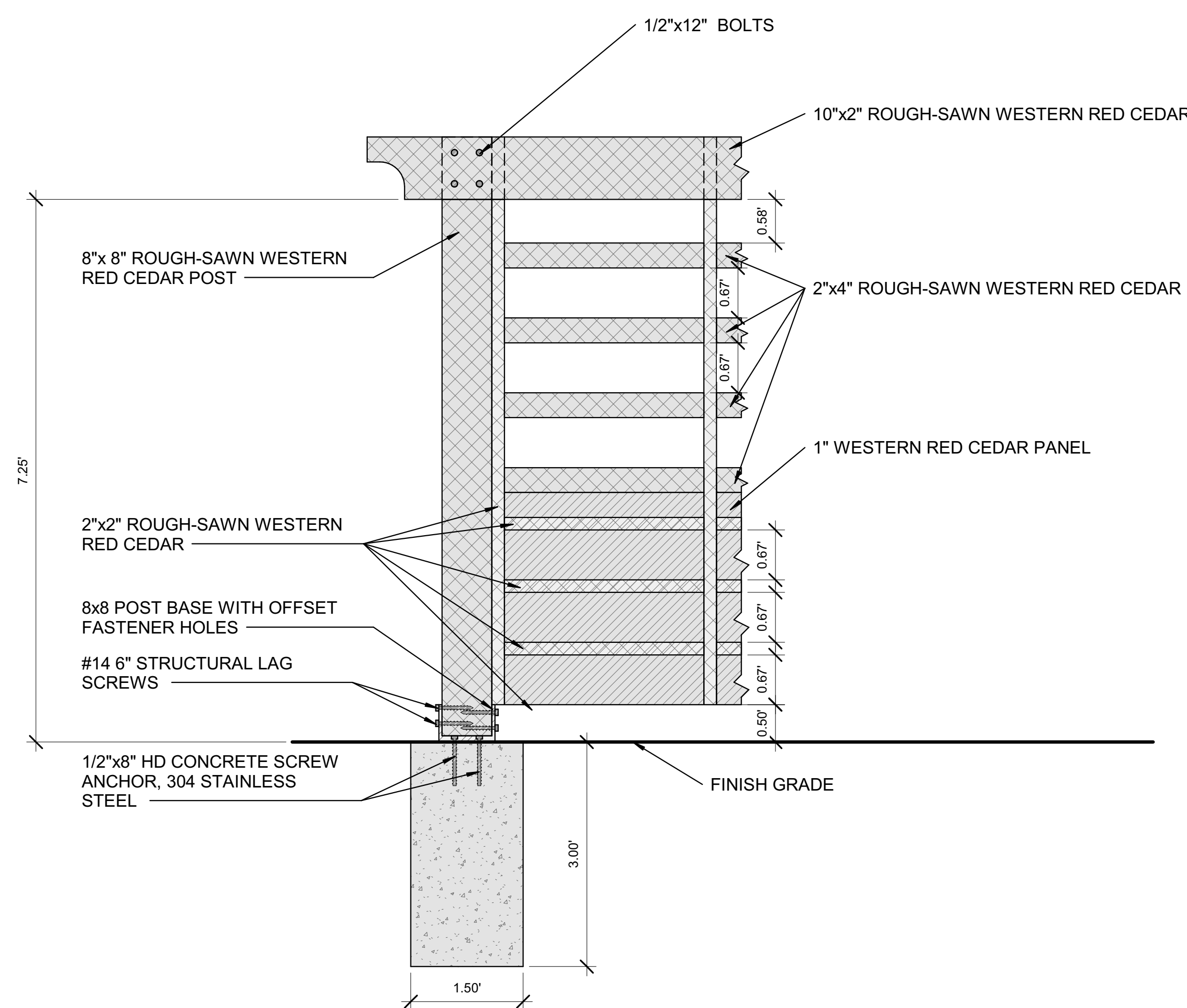
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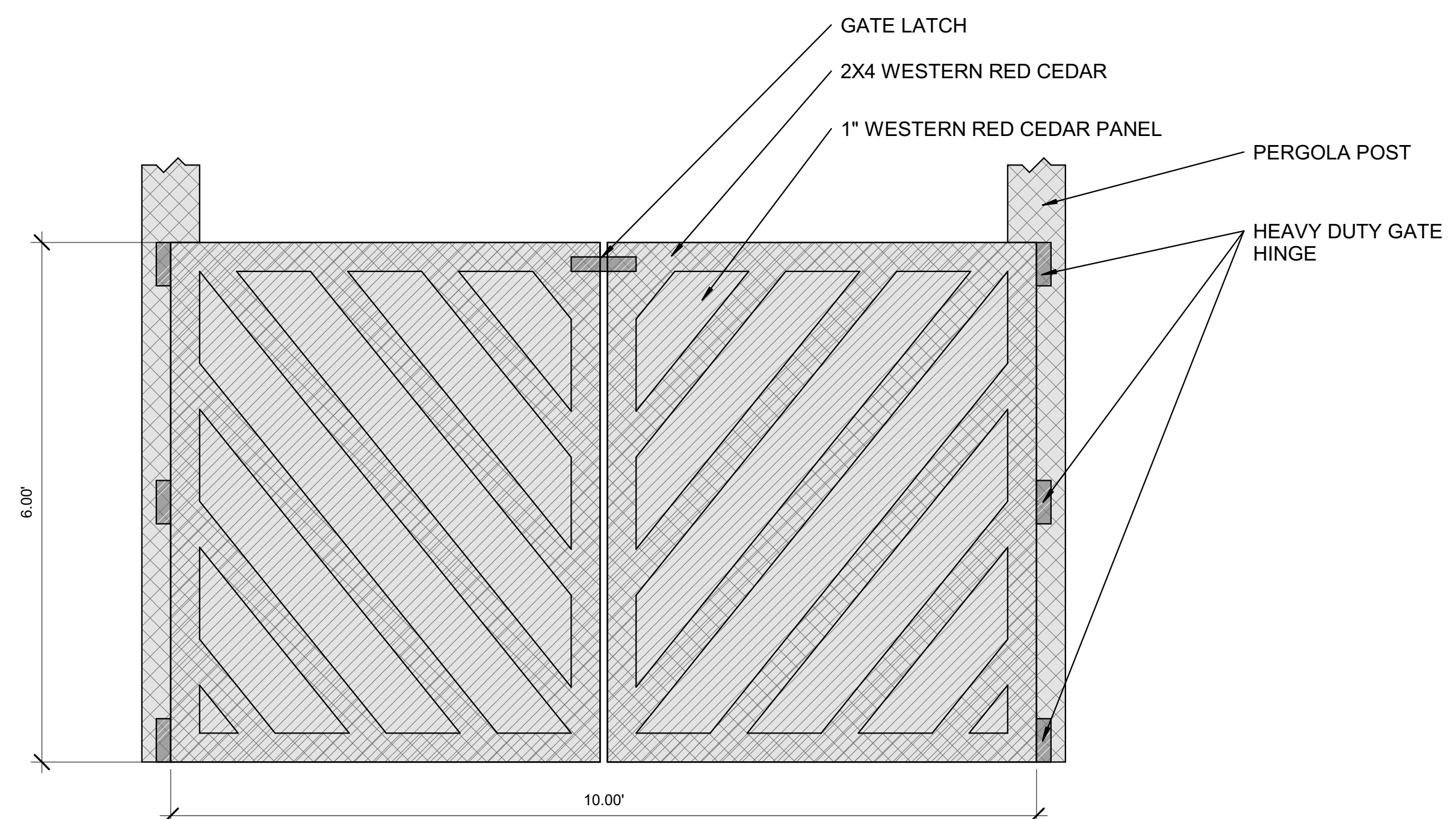
PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

**4 SCREENING WALL PLAN VIEW DETAIL**  
NOT TO SCALE



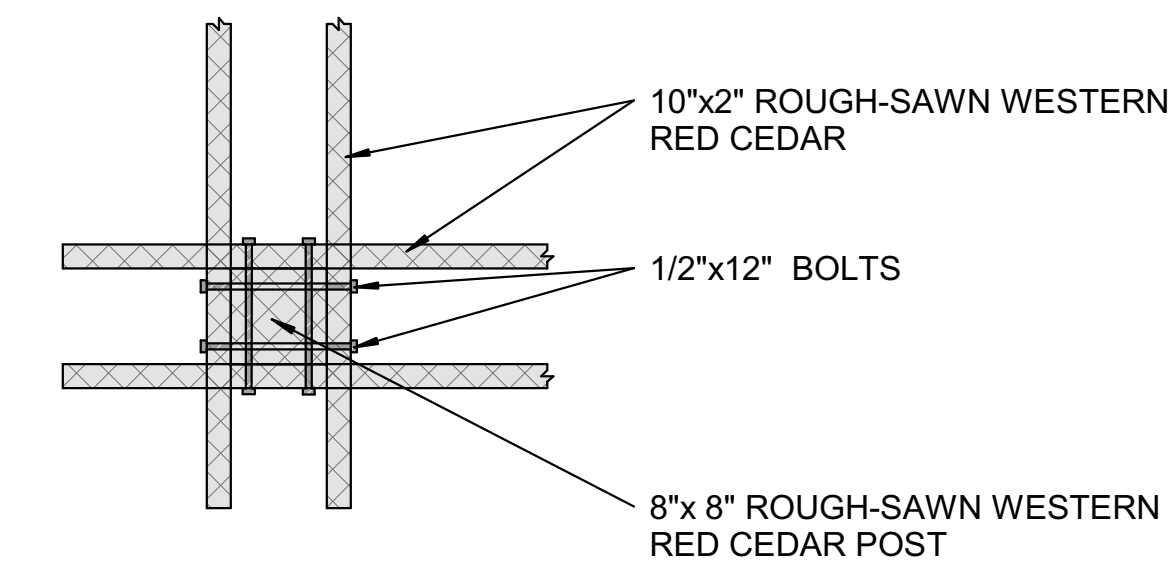
PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

**3 SCREENING WALL ELEVATION DETAIL**  
NOT TO SCALE



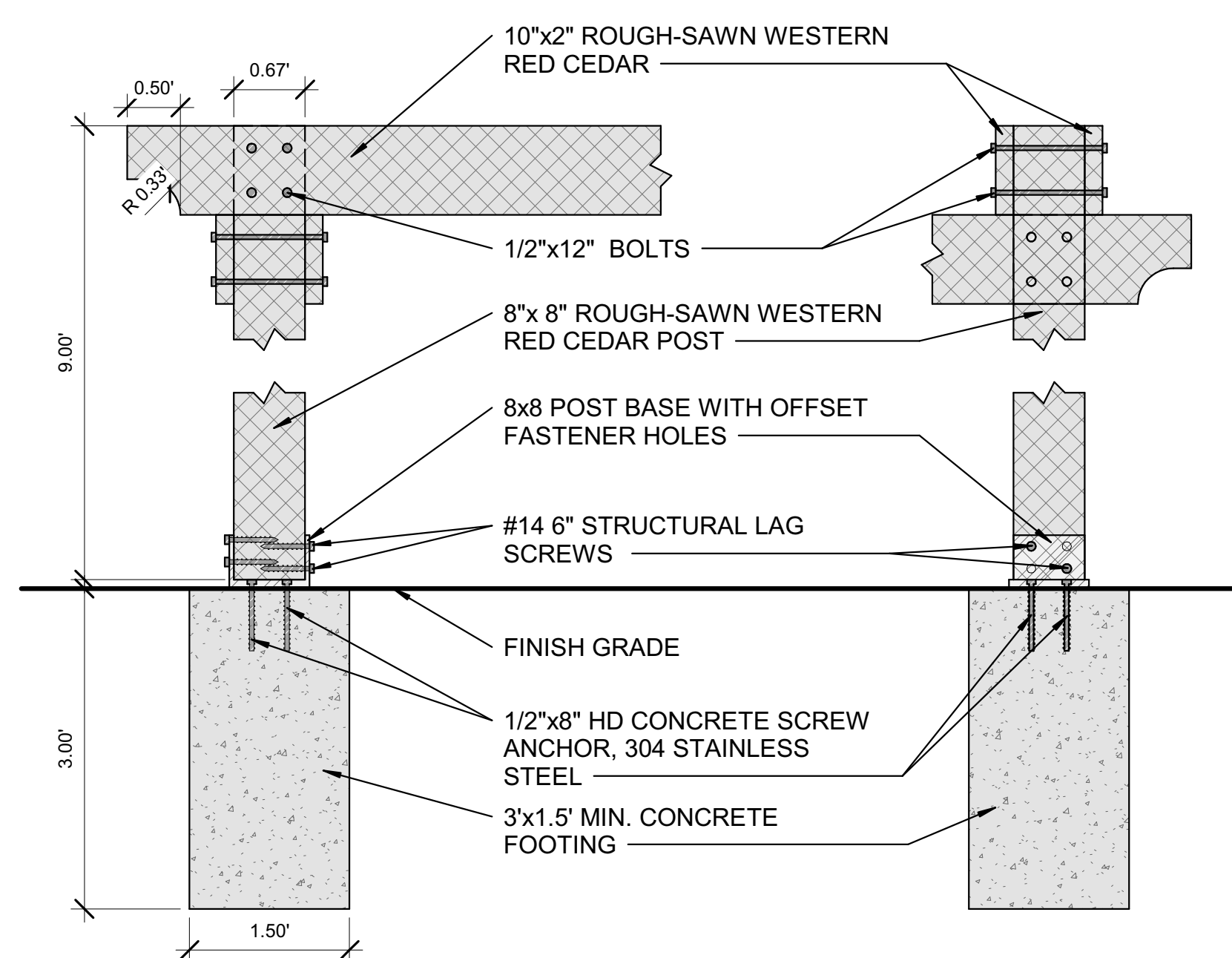
PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

**5 PERGOLA GATE DETAIL**  
3/4" = 1'-0"



PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

**2 PERGOLA PLAN VIEW DETAIL**  
NOT TO SCALE



PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION

**1 PERGOLA ELEVATION DETAIL**  
NOT TO SCALE

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2

1

**SCHMIDT ASSOCIATES**  
schmidt-arch.com • 317.263.6226  
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  
REGISTERED  
NO. 19900465  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

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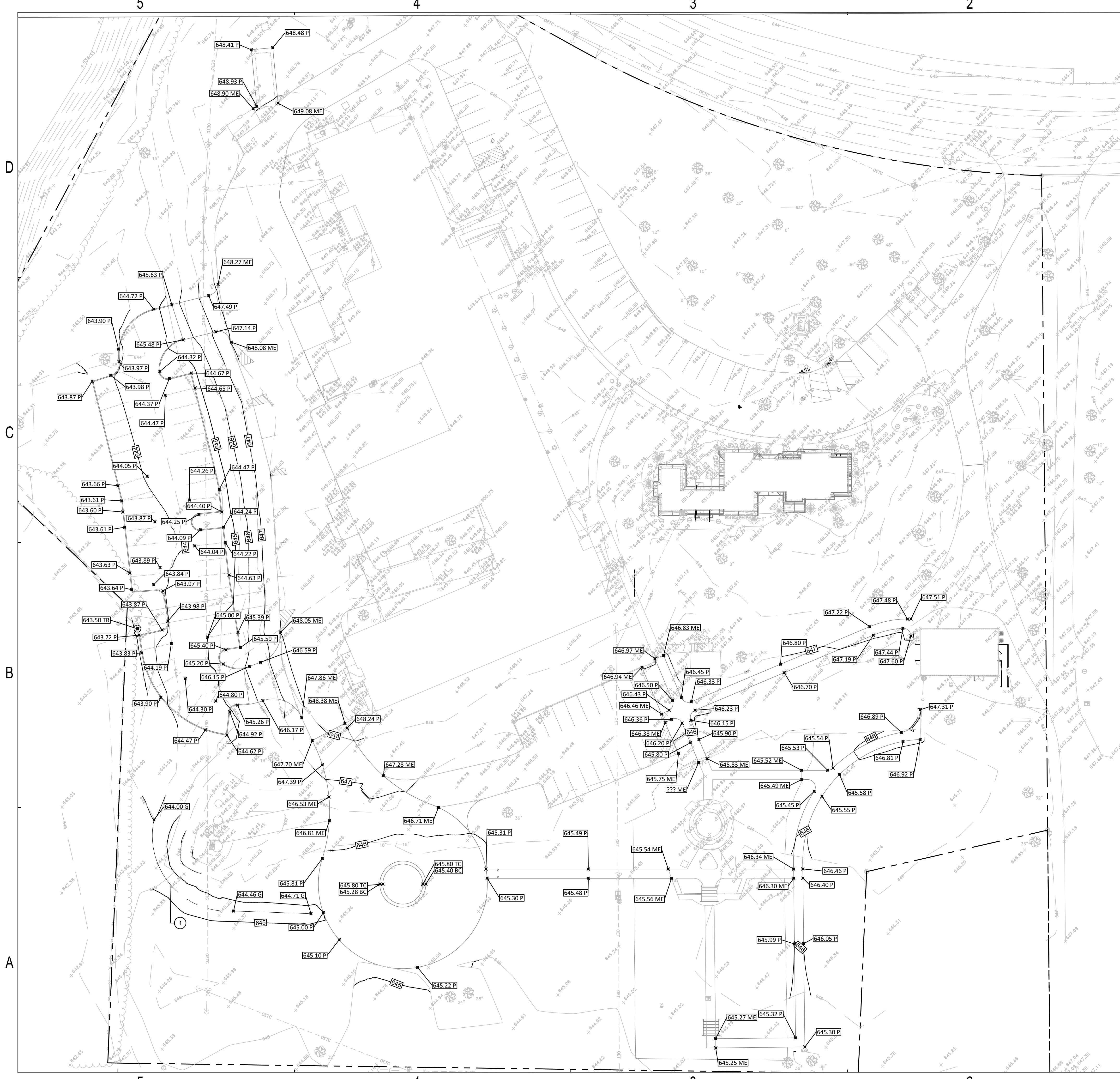
3705 IN-16  
Brook, IN 47922

**NEWTON COUNTY BOARD OF COMMISSIONERS**

HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

SUPPLEMENTAL SITE WORK DETAILS

CL502.5



**GENERAL GRADING NOTES**

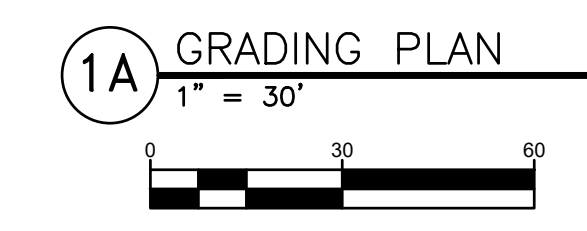
1. IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF SITE CONDITIONS AT THE TIME THIS PROJECT IS BID.
3. ALL TRANSITIONS IN CURB HEIGHTS SHALL BE SMOOTH WITH A CONSISTENT SLOPE.

**GRADING LEGEND**

- 828 --- EXISTING CONTOUR LINE
- 828 — PROPOSED CONTOUR LINE
- 10000.00 PROPOSED ELEVATION
- 10000.00 Ex EXISTING ELEVATION
- 10000.00 ME MATCH EXISTING ELEVATION
- 10000.00 TC TOP OF CURB ELEVATION
- 10000.00 TW TOP OF WALL ELEVATION
- 10000.00 TR TOP OF RIM ELEVATION
- 10000.00 P PAVEMENT ELEVATION
- 10000.00 GU GUTTER ELEVATION
- 10000.00 G GROUND ELEVATION
- 10000.00 FL FLOWLINE ELEVATION
- 10000.00 BC BOTTOM OF CURB ELEVATION
- 10000.00 BW BOTTOM OF WALL ELEVATION
- 1004.50 FFE FINISH FLOOR ELEVATION

**GRADING KEY NOTES**

- ① STORM WATER FLOW LINE



**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  
REGISTERED PROFESSIONAL ENGINEER  
NO. 19900465  
STATE OF INDIANA

*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 - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

GRADING PLAN  
CG101.5

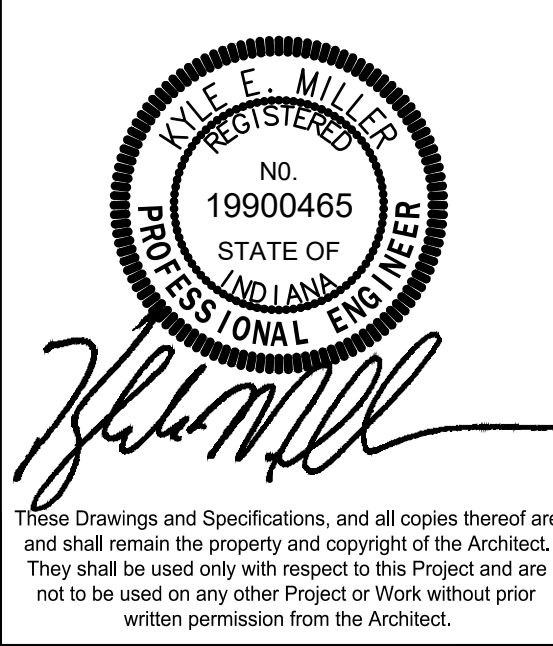


Elevations Table						
Number	Minimum Elevation	Maximum Elevation	Area 2D (ft <sup>2</sup> )	Area 3D (ft <sup>2</sup> )	Volume (ft <sup>3</sup> )	Color
1	-2.000	-1.000	589.24	590.04	2.57	Red
2	-1.000	0.000	52854.48	52903.83	454.73	Orange
3	0.000	1.000	39262.20	39294.24	221.96	Yellow
4	1.000	2.000	7.92	7.93	0.00	Green

**FOR REFERENCE ONLY - FOR DNR PERMITTING**



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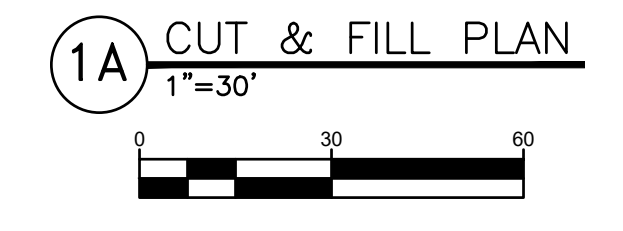
3705 IN-16  
 Brook, IN 47922

**KEY PLAN**

NEWTON COUNTY  
 BOARD OF  
 COMMISSIONERS

HAZELDEN ESTATE  
 RESTORATION -  
 SUPPLEMENTAL  
 SITE WORK -  
 BID PACKAGE 5

CUT & FILL PLAN  
 CG102.5





**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.

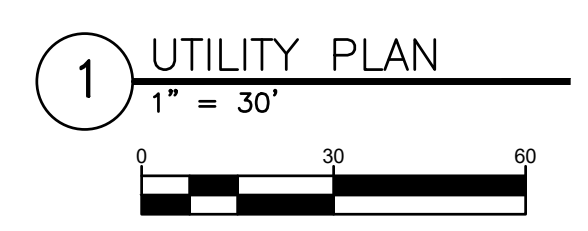
**UTILITY LEGEND**



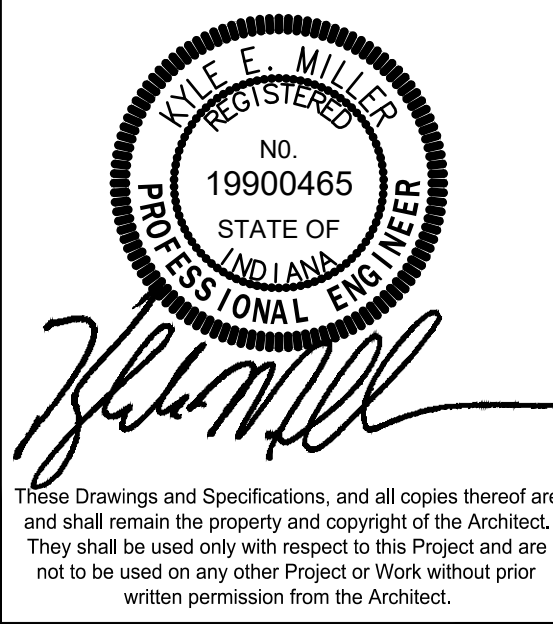
**UTILITIES KEY NOTES**

- CONNECT NEW MANHOLE TO EXISTING PIPE
- BORE WATER LINE UNDER ALL EXISTING PAVEMENT
- NEW WATERLINE FEED TO FOUNTAIN
- CONNECT TO 6INCH WATER LINE. LINE TO BE INSTALLED UNDER DIFFERENT PACKAGE

ST STRUCTURE DATA TABLE				
NUMBER	TYPE	CASTING	RIM ELEVATIONS	INVERTS
ST-(01)	4.00' Manhole	R-2560-G	643.50' RIM	4" INV. S 641.20' 4" INV. N 641.63' 8" INV. NW 639.90'



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UTILITY PLAN  
 CU101.5

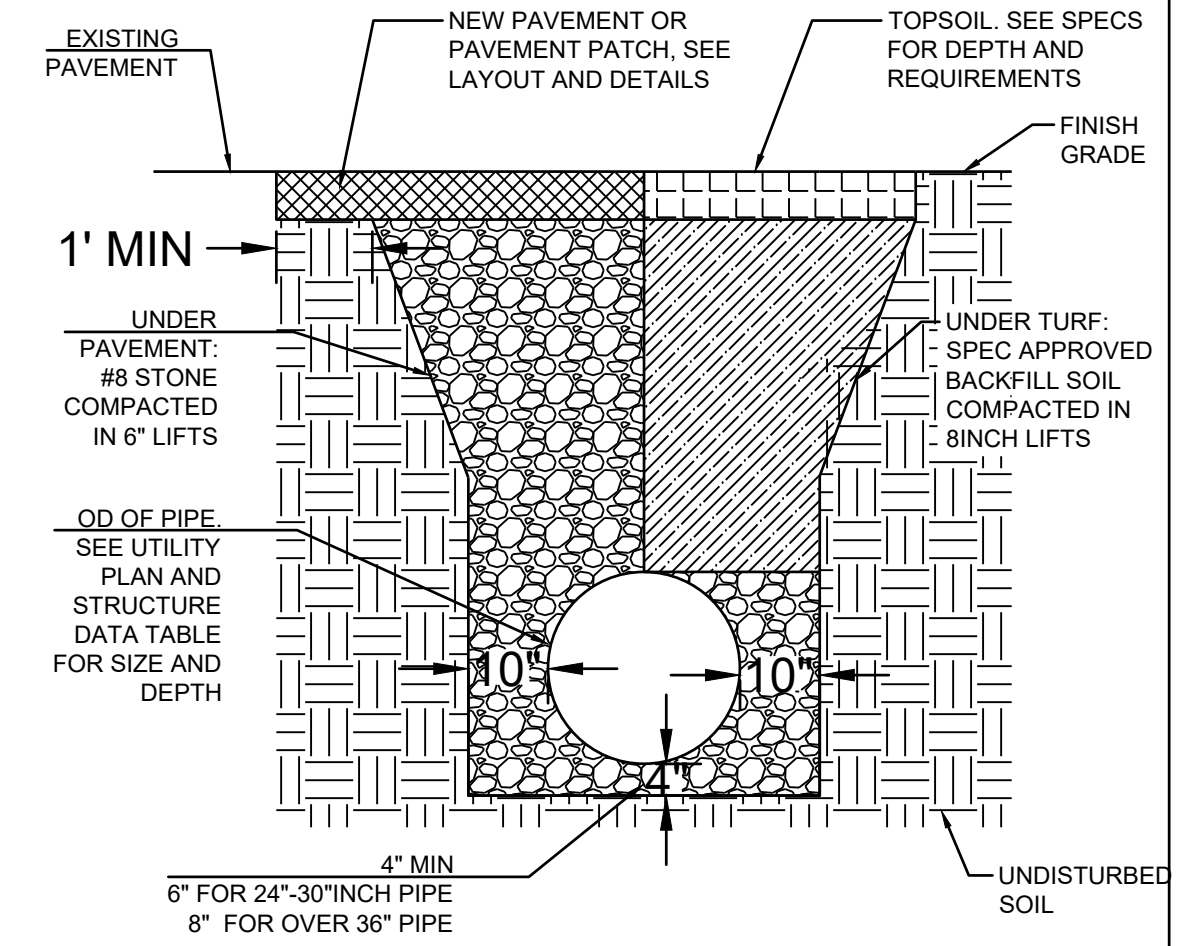
5

4

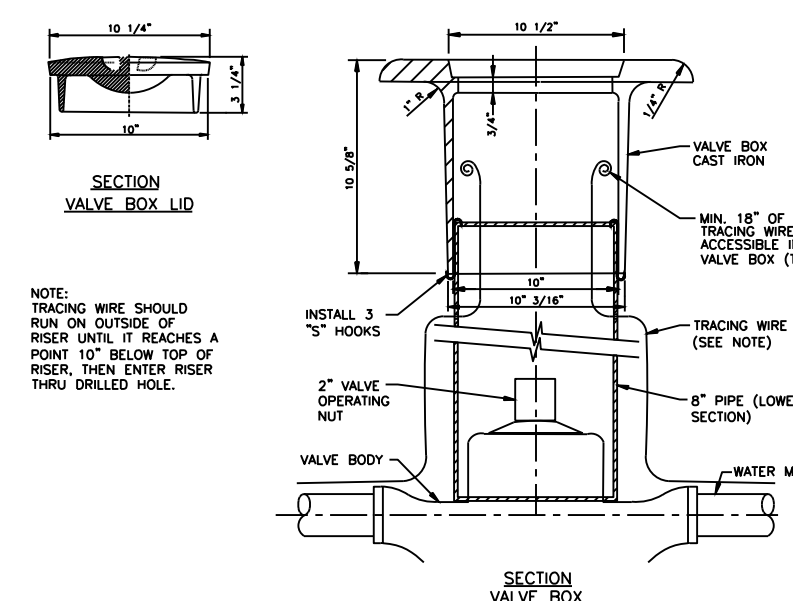
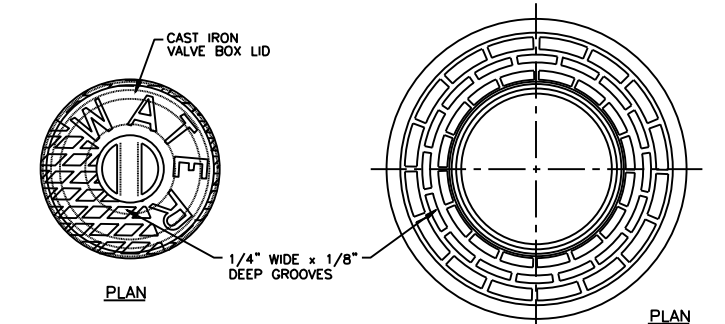
3

2

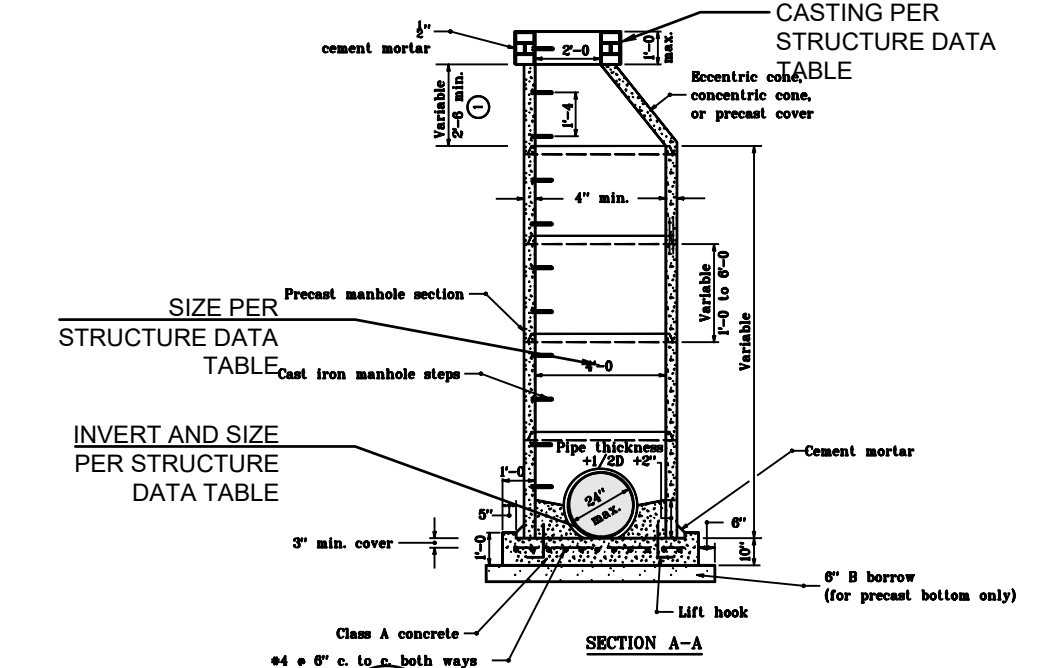
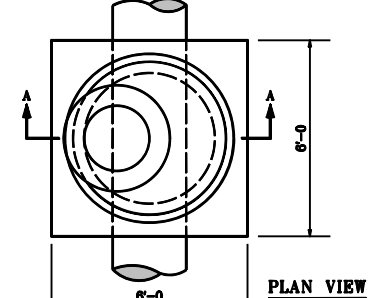
1



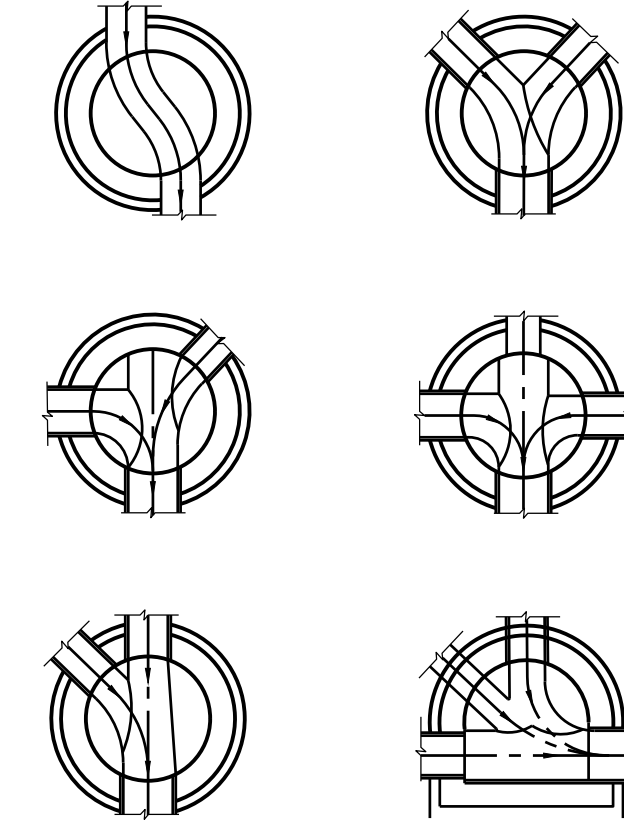
**1D** SDR35, HDPE, RCP PIPE BEDDING  
1" = 2'



**1C** WATER VALVE  
NTS

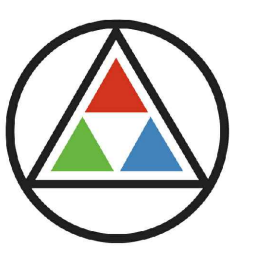


**1B** MANHOLE  
NTS



NOTE:  
Sanitary sewer bench slope at 1/8" per foot.

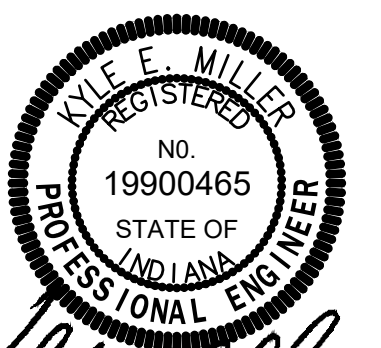
**1A** Sanitary Manhole Benches  
Not to Scale



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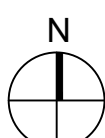
*Kyle E. Miller*

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Brook, IN 47922

KEY PLAN



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RESTORATION -  
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SITE WORK -  
BID PACKAGE 5

UTILITY DETAILS

CU501.5

D

C

B

A

D

C

B

A

5

4

3

2

1

5

4

3

2

1

D

C

B

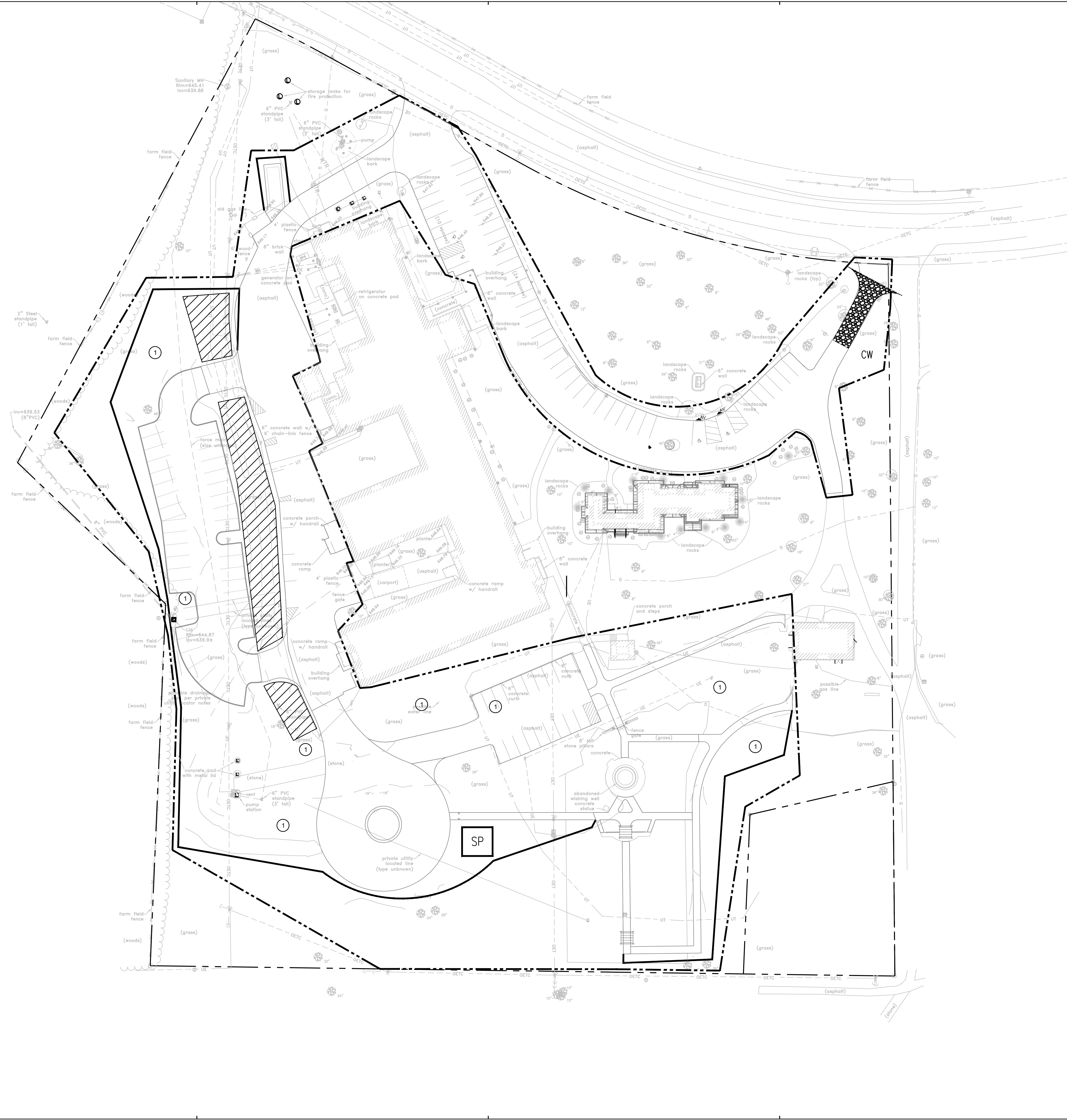
A

D

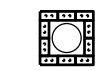
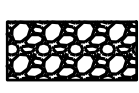
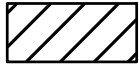



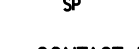
C

B

A



**EROSION CONTROL LEGEND**

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

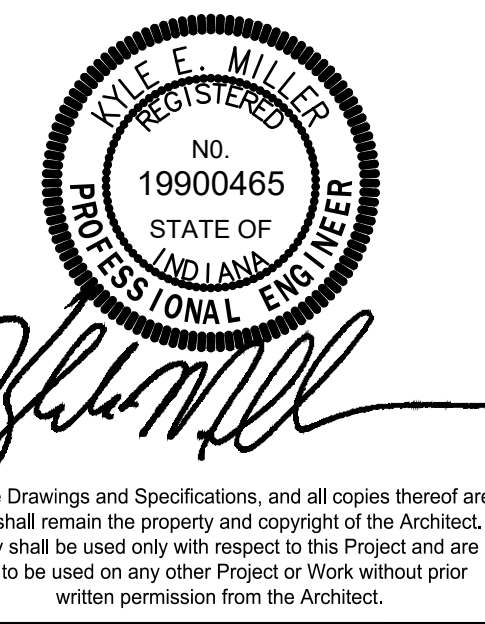
**CONTACT PERSON**  
 KRISTINE WRIGHT-DIRECTOR  
 100 W MAIN ST, BROOK IN  
 kwright@brook.lib.in.us  
 219-275-2471

**EROSION CONTROL NOTES**

- ① SEED ALL DISTURBED AREAS



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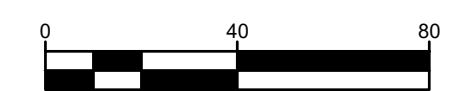
**KEY PLAN** 

NEWTON COUNTY  
 BOARD OF  
 COMMISSIONERS

HAZELDEN ESTATE  
 RESTORATION -  
 SUPPLEMENTAL  
 SITE WORK -  
 BID PACKAGE 5

STORMWATER POLLUTION  
 PREVENTION PLAN (SWPPP)  
**CE101.5**

① EROSION CONTROL PLAN  
 1" = 40'



### 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 PERMEABLE PAVERS PARKING LOT ADDITION, NEW SIDEWALK, CUT AND FILL WORK, NEW WATER LINES, PLANTINGS, AND MORE.
- A4. LATITUDE AND LONGITUDE: THE PROJECT INVOLVES A PERMEABLE PAVERS PARKING LOT ADDITION, NEW SIDEWALK, CUT AND FILL WORK, NEW WATER LINES, PLANTINGS, AND MORE. 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 LOT: 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 WILL BE DIRECTLY DISCHARGED INTO GROUNDWATER, SUCH AS ABANDONED WELLS, SINKHOLES OR KARST FEATURES.
- A22. SIZE OF PROJECT AREA IN ACRES: 5.15 ACRES
- A23. TOTAL EXPECTED LAND DISTURBANCES IN ACRES: 1.88 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

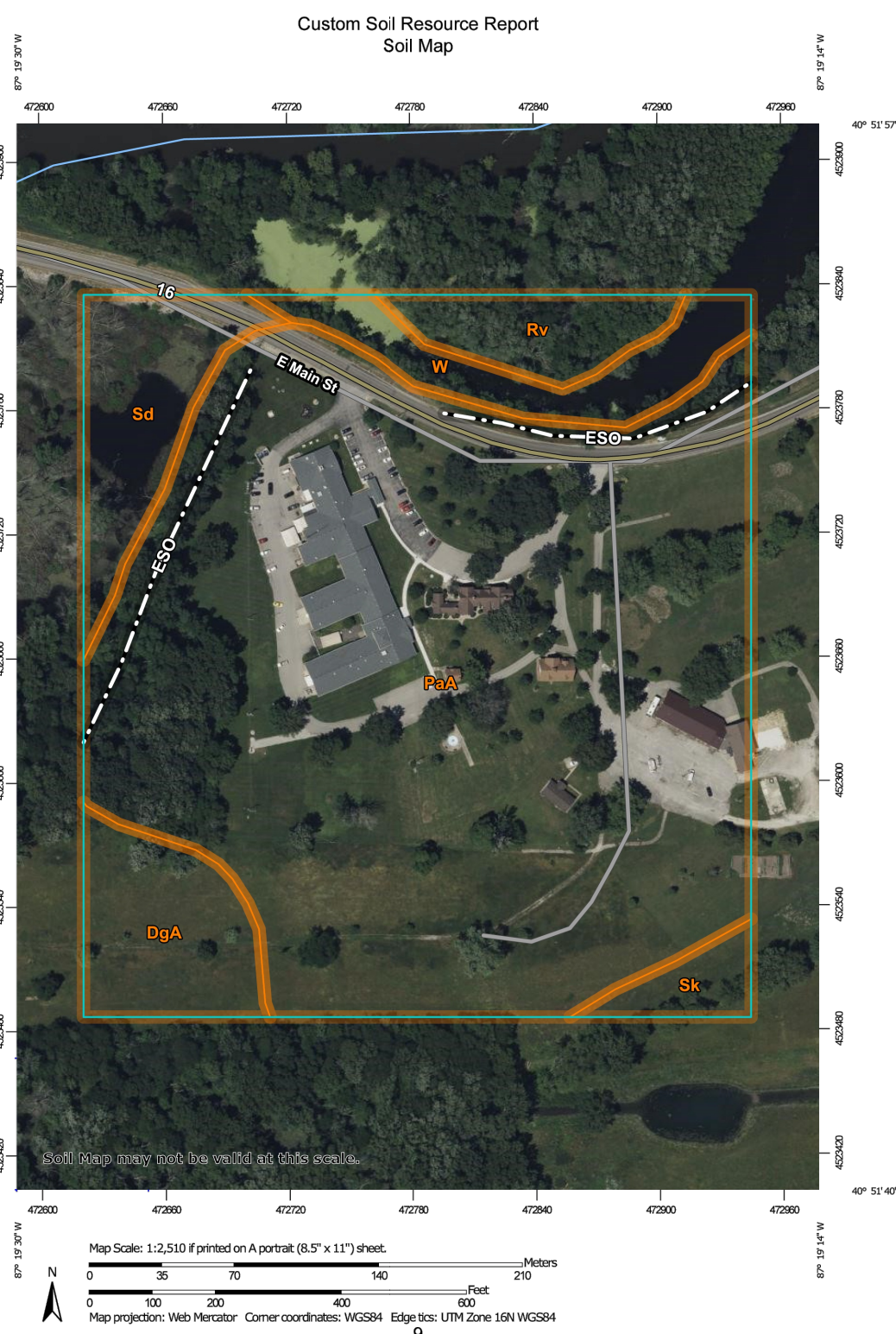
### B-SWPPP-EROSION CONTROL

- 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: Seasonal Soil Protection Chart:
 

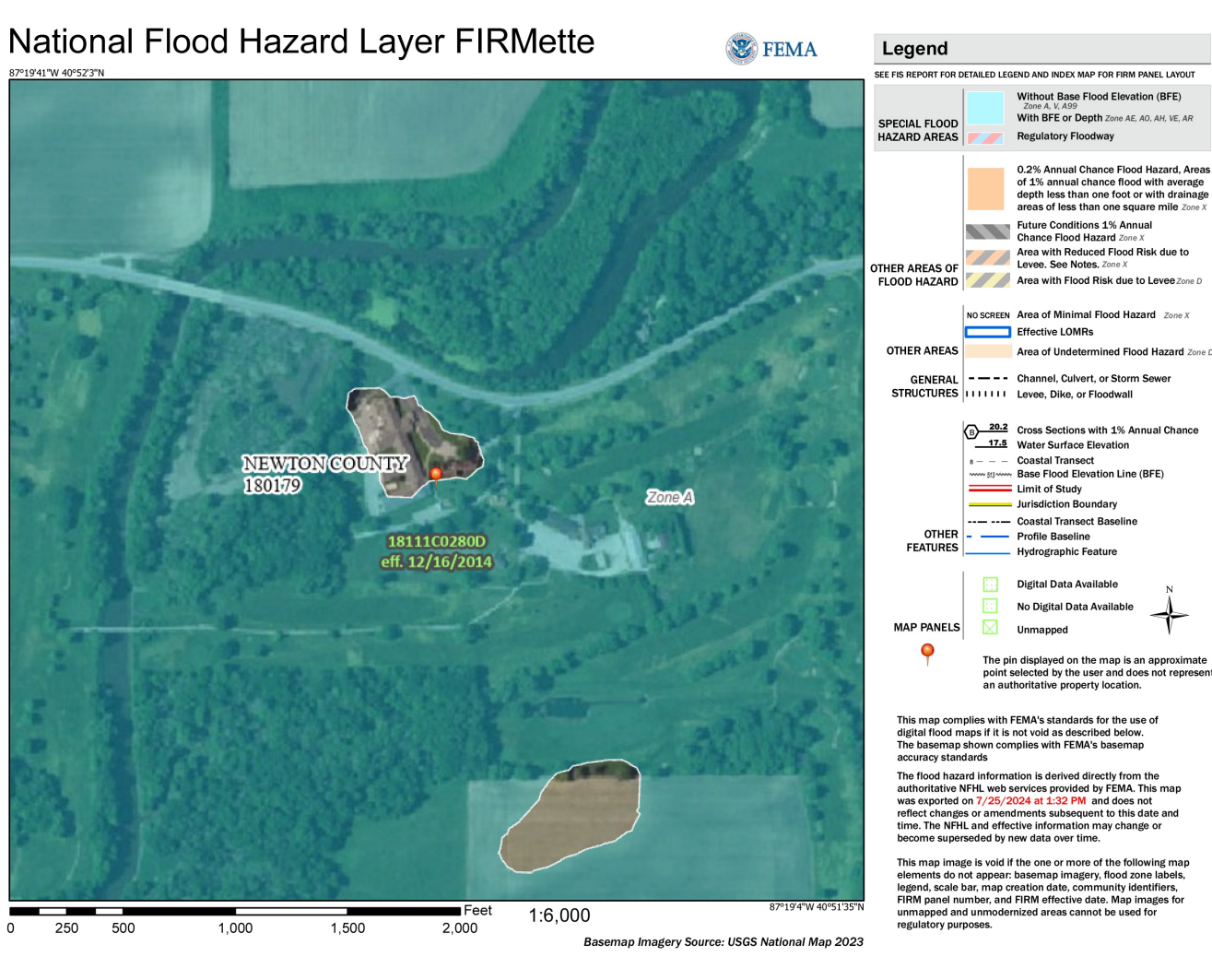
Stabilization practice	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Approved	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Temporary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
- B4. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS: SEE SHEET CE101
- B5. SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS: SEE SHEET CE101.
- B6. 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. DEWATER 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**
    - Inspect the silt fence periodically and after each storm event
    - If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
    - Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
  - TEMPORARY INLET PROTECTION MAINTENANCE REQUIREMENTS**
    - Inspect temporary inlet after each storm event and immediately repair any erosion and piping holes.
    - Inspect vegetation and re-seed if necessary.
    - If fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
    - Remove deposited sediment when it reaches half full.
  - EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS**
    - During vegetative establishment, inspect after each storm event for any erosion below the blanket.
    - If any areas show erosion, pull back that portion of the blanket covering it, reseed the area and relay and staple the blanket.
    - After vegetative establishment check the treated area periodically.
  - TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS**
    - Inspect entrance post and sediment disposal area weekly and after storm events or heavy use.
    - Reshape as needed for drainage and runoff control.
    - Topdress with clean stone as needed.
    - Immediately remove mud and sediment tracked or washed onto streets by brushing or sweeping.
  - TEMPORARY CONCRETE WASHOUT MAINTENANCE REQUIREMENTS**
    - Clean concrete washout daily when used.
    - Dispose of concrete per local requirements.
- B12. PLANNED CONSTRUCTION SEQUENCE DESCRIBING THE RELATIONSHIP BETWEEN IMPLEMENTATION OF STORMWATER QUALITY MEASURE IN REACTION TO LAND DISTURBANCE.
  - Conduct preconstruction meeting with soil and water
  - Call the Indiana Underground Plant Protection systems, Inc. ("Holey Moley") at 811 to check the location of any existing utilities. They should be notified two working days before construction takes place.
  - post 1 silt fence shall be installed at the edges of the project site where there is potential for any stormwater runoff.
  - Inlet protection shall be installed.
  - Evaluate, mark and protect important trees and associated root zones. Evaluate existing vegetation suitable
  - A construction entrance shall be placed per the plan location
  - Establish construction staging area for equipment and vehicles
  - Establish onsite location for approved plans/SWPPP plans and postings.
  - Establish SWPPP documents and reports
  - 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.
  - Conduct SWPPP inspections
  - After grading, seed all disturbed areas
  - Install utilities including storm sewers, etc
  - Install inlet protections on new storm structures
  - 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.
  - 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.
    - Any personnel observing a spill will immediately instigate the following procedure:
      - Calling 911 from any telephone.
      - Notify the appropriate emergency personnel.
    - 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 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
  - VEGETATED STRIPS AND/OR SWALES
  - PERMANENT EROSION CONTROL SEEDING AND PLANTINGS
  - OUTLET PROTECTION & VELOCITY DISSIPATION DEVICES
  - EARTHEN DIKES, DRAINAGE SWALES AND LINED DITCHES
  - ROCK SLOPE PROTECTION
  - 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
  - INSPECT ALL STORM WATER STRUCTURES, FOR DEBRIS QUARTERLY
  - INSPECT ORIFICE FOR DEBRIS AFTER ALL LARGE RAIN EVENTS AND QUARTERLY
  - INSPECT ORIFICE FOR DEBRIS AFTER ALL LARGE RAIN EVENTS AND QUARTERLY
- C6. ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST CONSTRUCTION STORMWATER MEASURES. GEORGE ADE MEMORIAL HEALTH CARE CENTER



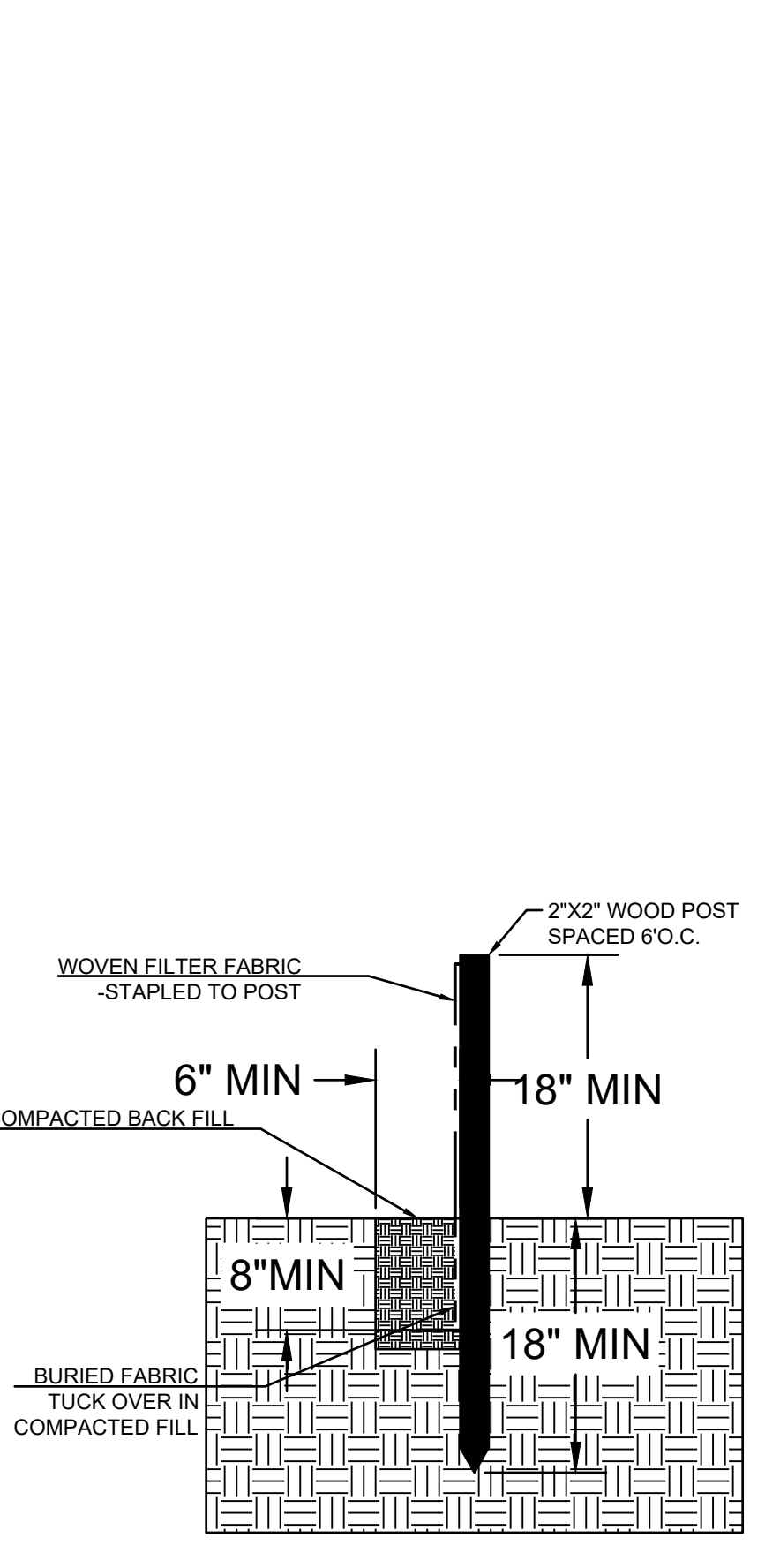
2C NRCS SOIL MAP & DESCRIPTION N.T.S



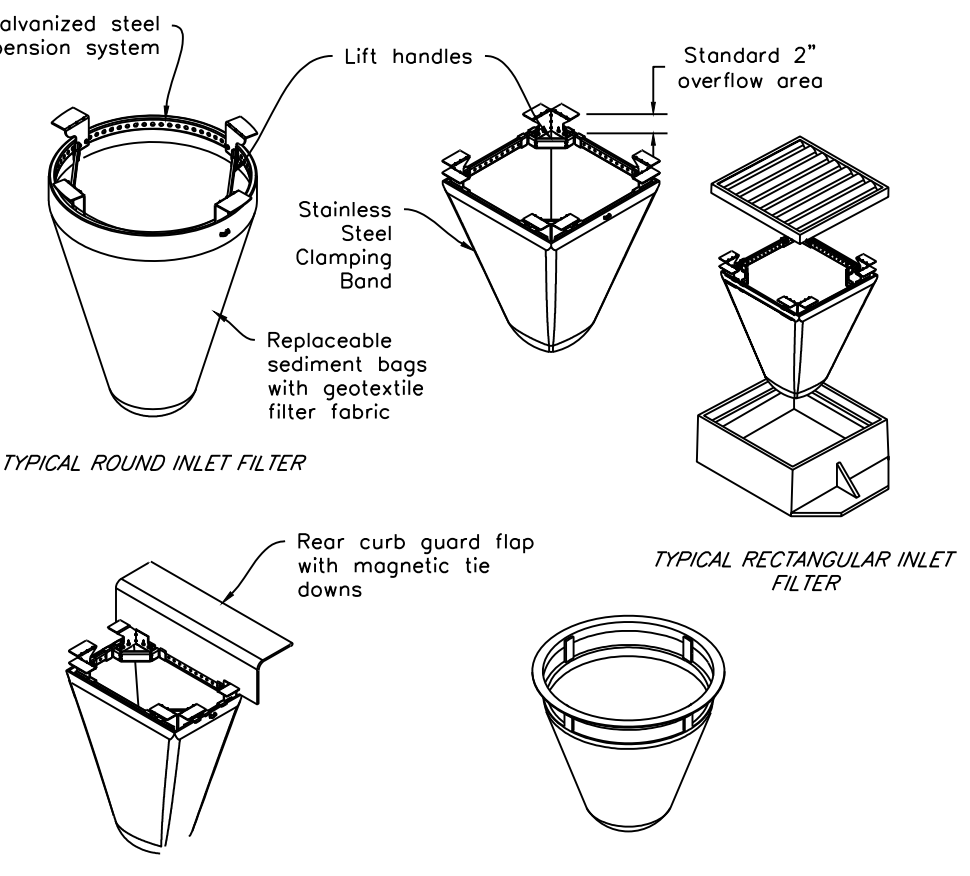
1C ADJACENT FLOODPLAINS & FLOODWAYS MAP N.T.S

- 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.

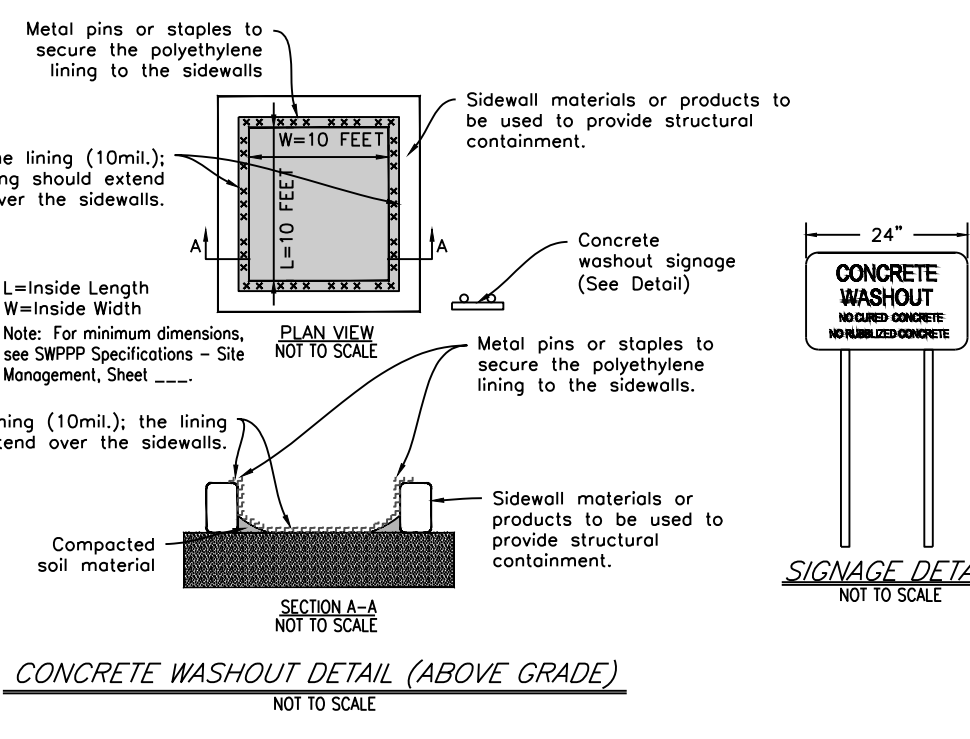
- A32. CONSTRUCTION SUPPORT ACTIVITIES: NONE.
- A33. LOCATION OF ANY IN-STREAM ACTIVITIES: NONE.



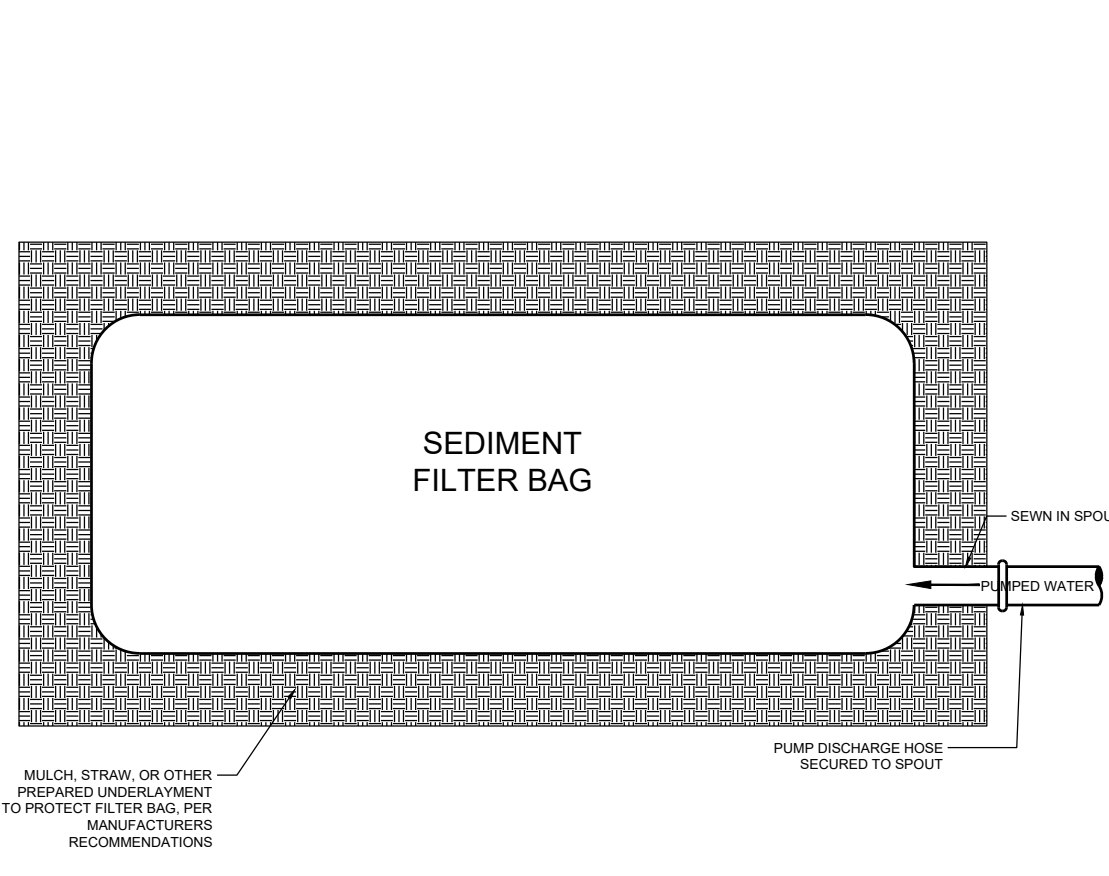
3A SILT FENCE 1" = 1'



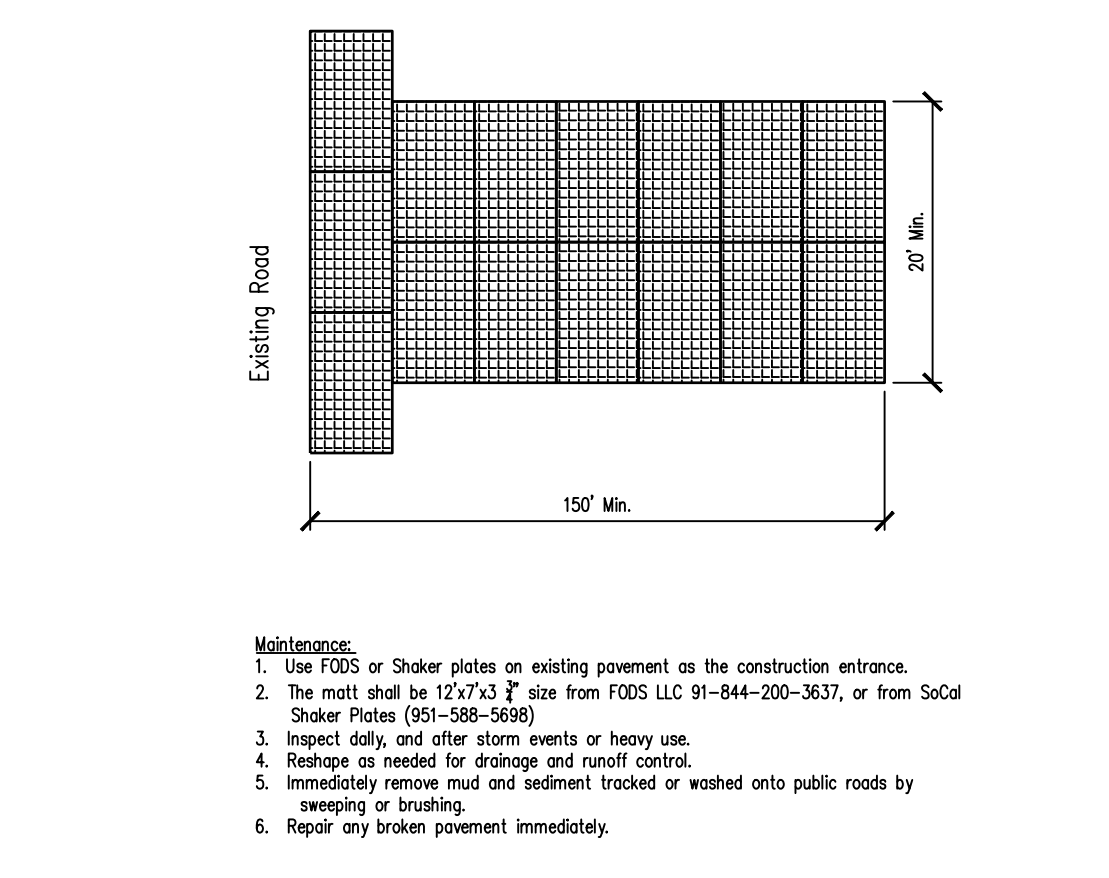
2B INLET PROTECTION N.T.S



2A CONCRETE WASHOUT N.T.S



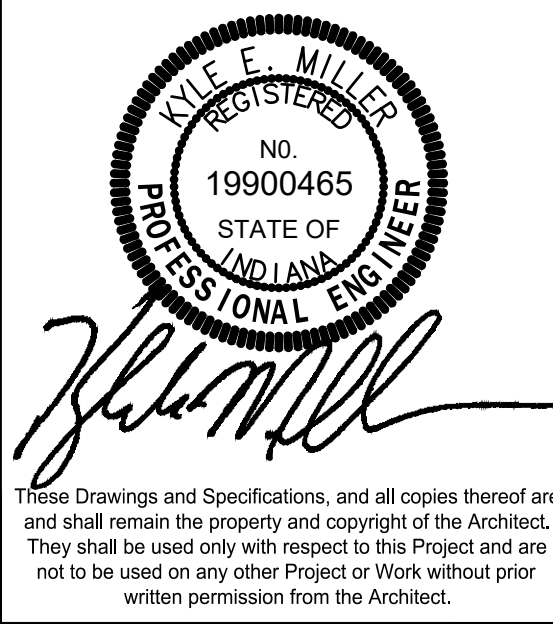
1B DEWATERING SEDIMENT BAG N.T.S



1A STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE - PRACTICE 3.01



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



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#	Revision	Date
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3705 IN-16  
 Brook, IN 47922

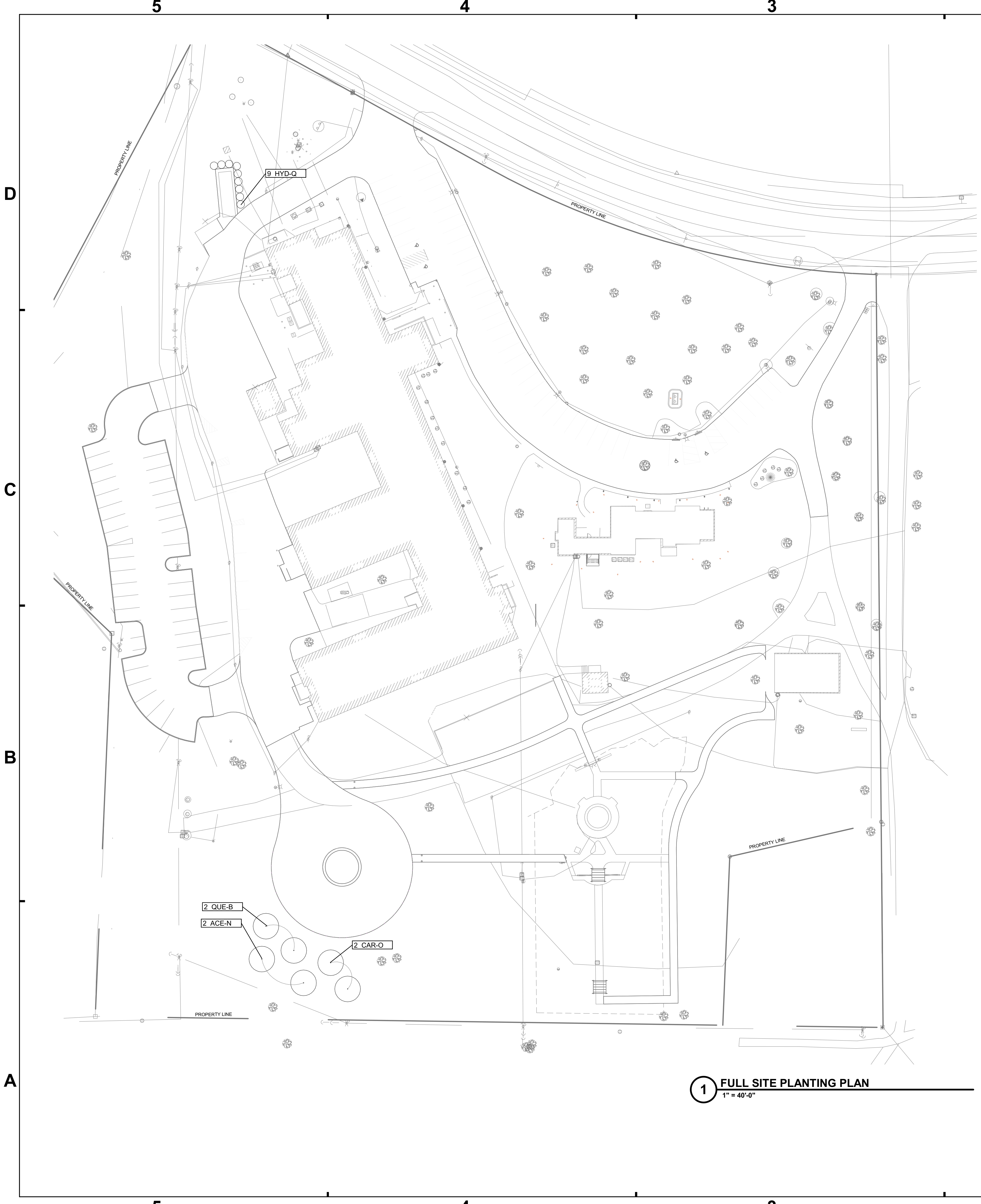
KEY PLAN

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

SWPPP NOTES AND DETAILS

CE501.5



**GENERAL PLANTING NOTES**

1. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PERMANENTLY SEEDED UNLESS INDICATED OTHERWISE ON THIS PLAN.
2. ALL EXISTING LANDSCAPING ON AND ADJACENT TO PROJECT SITE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
3. PLANT QUANTITIES LISTED IN THE TABLE ARE FOR CONTRACTOR CONVENIENCE ONLY. IN THE EVENT OF DISCREPANCY BETWEEN STATED AMOUNT AND WHAT IS GRAPHICALLY SHOWN ON PLAN, THE PLAN QUANTITY SHALL DICTATE.
4. ESTABLISH TURF GRASS ABOVE NATIVE AREA PRIOR TO SEEDING NATIVES TO PREVENT CONTAMINATION OF THE NATIVES. IN THE EVENT PRIOR ESTABLISHMENTS IS NOT FEASIBLE, UTILIZE SILT FENCE OR OTHER CONTROL SYSTEM TO PREVENT CROSS CONTAMINATION.

**LANDSCAPE LEGEND**

	PROPOSED CANOPY TREE
	PROPOSED EVERGREEN TREE
	PROPOSED SHRUB
	STONE AGGREGATE MULCH
	PENNINGTON SIGNATURE SERIES, ELITE TURF TYPE TALL FESCUE BLEND, INCLUDING AT LEAST (3) NTEP TRIAL HIGH PERFORMING TURF TYPE TALL FESCUE VARIETIES: REBEL IV, JUSTICE, REBAL EXEDA, OR SIMILAR, SEED AT A RATE OF 5-8 LBS/ 1000 SF.
	DOUBLE SHREDDED HARDWOOD MULCH, SEE

**FULL SITE PLANTING SCHEDULE**

Count	Key	Scientific Name	Common Name	Size	Condition
Shade Trees					
2	ACE-N	Acer nigrum	Black Maple	2" cal.	B&B
2	CAR-O	Carya ovata	Shagbark Hickory	2" cal.	B&B
2	QUE-B	Quercus bicolor	Swamp White Oak	2" cal.	B&B
Shrubs					
9	HYD-Q	Hydrangea quercifolia	Oakleaf Hydrangea	3 Gal, 24" min Ht	Cont.



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



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#	Revision	Date

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**NEWTON COUNTY BOARD OF COMMISSIONERS**

HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

FULL SITE PLANTING PLAN

LP101.5

**1 FULL SITE PLANTING PLAN**  
 1" = 40'-0"



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



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#	Revision	Date

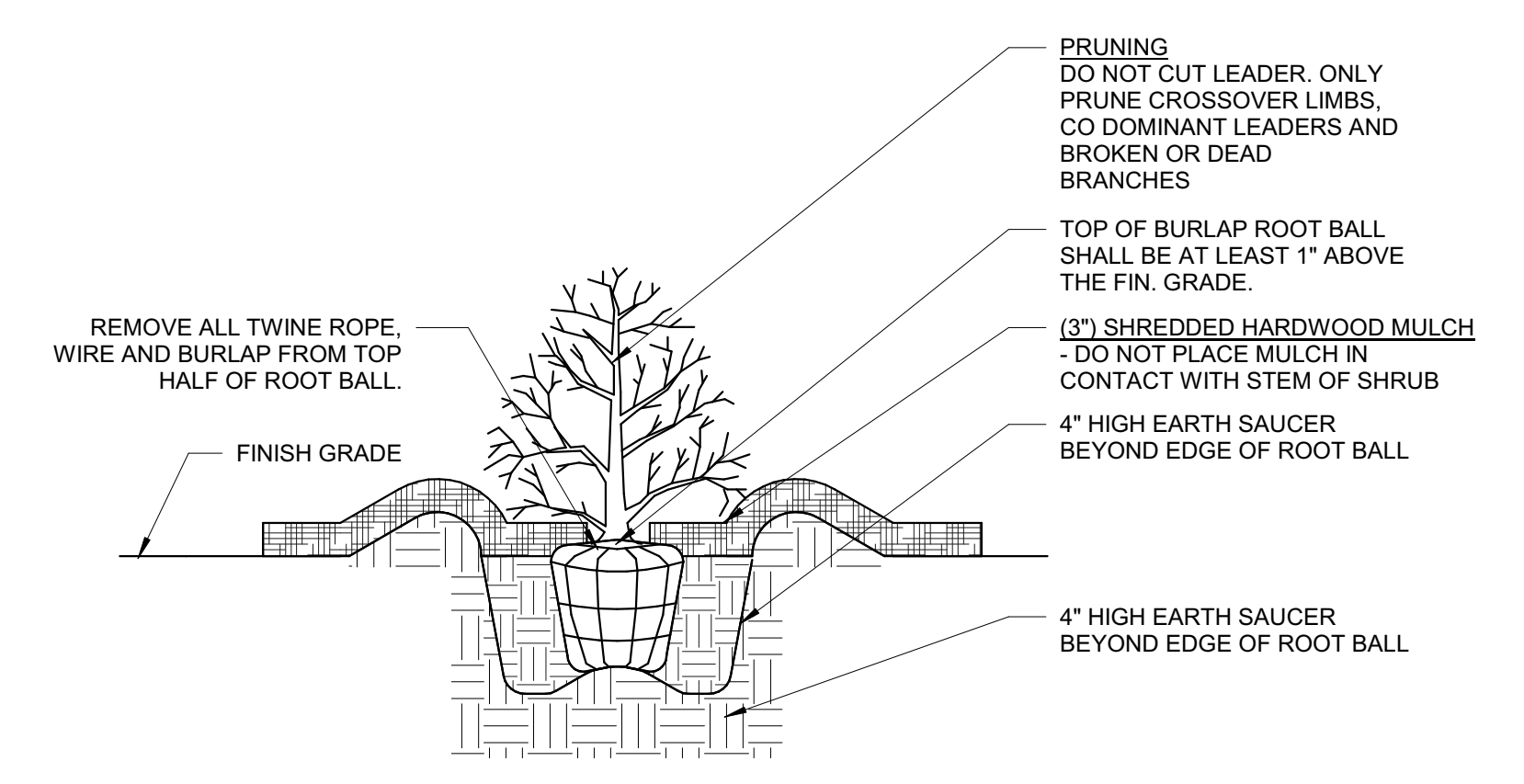
3705 IN-16  
 Brook, IN 47922

**NEWTON COUNTY BOARD OF COMMISSIONERS**

**HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5**

PLANTING DETAILS

LP501.5



**1A PLANTING, SHRUB**  
 3/4" = 1'-0"

D  
C  
B  
A

5  
4  
3  
2  
1

# ABBREVIATIONS

A	AMPERE	FT	FEET, FOOT	OC	OVERCURRENT
AC	ALTERNATING CURRENT; ARMORED CABLE	FTL	FEED THROUGH LUGS	OD	OUTSIDE DIAMETER
AF	AMP SIZE OF CIRCUIT BREAKER FRAME/FUSED SWITCH	FURN	FURNISHED	OH	OVERHEAD
AFC	ABOVE FINISHED COUNTERTOP	FVNR	FULL VOLTAGE NON-REVERSING	OL	OVERLOAD
AFCI	ARC FAULT CIRCUIT INTERRUPTER				
AFB	ABOVE FINISHED FLOOR	G/ND	GROUND	P	POLE
AFG	ABOVE FINISHED GRADE	GA	Gauge	PB	PULL BOX; PUSH BUTTON
AHU	AIR HANDLING UNIT	GALV	GALVANIZED	PC	PHOTOCELL; PLUMBING CONTRACTOR (DIVISION 22)
AIC	AMPERE INTERRUPTING CAPACITY	GC	GENERAL CONTRACTOR	PE	PEDESTAL
AL	ALUMINUM	GD	GARBAGE DISPOSAL	PF	POWER FACTOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GEN	GENERATOR	PHØ	PHASE
ASYM	ASYMMETRICAL	GFEP	GROUND FAULT EQUIPMENT PROTECTION	PV	POST INDICATOR VALVE
AT	AMP TRIP SIZE CIRCUIT BREAKER/FUSED SWITCH	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PL	PILOT LIGHT
ATS	AUTOMATIC TRANSFER SWITCH	POS	POSITIVE (+)		
AUX	AUXILIARY	H	HIGH	FRI	PRIMARY
AVG	AVERAGE	HD	HEAVY DUTY	PSF	POUNDS PER SQUARE FOOT
AWG	AMERICAN WIRE GAUGE	HDPE	HIGH-DENSITY POLYETHYLENE CONDUIT	PSI	POUNDS PER SQUARE INCH
		HOA	HAND-OFF-AUTO	PT	POTENTIAL TRANSFORMER
BATT	BATTERY	HORIZ	HORIZONTAL	PUH	PROPPELLER UNIT HEATER
BCP	BRANCH CIRCUIT PANELBOARD	HP	HORSEPOWER	PVC	POLYVINYL CHLORIDE CONDUIT
BKR	BREAKER	HR	HR	PWR	POWER
BPS	BOLTED PRESSURE SWITCH	HT	HT		
		HTP	HEAT PUMP	QTY	QUANTITY
C	CONDUIT; CELSIUS	HTR	HEATER		
CAB	CABINET	HZ	HERTZ	R	RESISTANCE
CB	CIRCUIT BREAKER			RECEPT	RECEPTACLE
C/C	CENTER TO CENTER	ID	INSIDE DIAMETER	REF	REFERENCE
CD	CANDELA	IEEE	INSTIT. OF ELECTRICAL AND ELECTRONICS ENGINEERS	REFR	REFRIGERATOR
CF	CUBIC FEET	IG	ISOLATED GROUND	REQD	REQUIRED
CL	CENTERLINE	IMC	INTERMEDIATE METAL CONDUIT	RLA	RUNNING LOAD AMPS
CLG	CEILING	IMP	IMPEDANCE	RMC	RIGID METAL CONDUIT
CMU	CONCRETE MASONRY UNIT	IN	INCH	RM	ROOM
COL	COLUMN	INSUL	INSULATED; INSULATION	RT	RAINTIGHT
COMB	COMBINATION	INT	INTERIOR, INTERNAL	RTU	ROOF TOP UNIT
CONC	CONCRETE	INV EL	INVERTED ELEVATION	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
COND	CONDUCTOR				
CONN	CONNECTION	J	JOULE	SCCR	SHORT-CIRCUIT CURRENT RATING
CONT	CONTINUOUS, CONTINUED	JB	JUNCTION BOX	SCHED	SCHEDULE
CONST	CONSTRUCTION	J	JUNCTION BOX	SCCR	SHORT CIRCUIT RATING
CP	CONTROL PANEL	K	THOUSAND	SEC	SECONDARY
CPT	CONTROL POWER TRANSFORMER	KCMIL	THOUSAND CIRCULAR MILS	SF	SUPPLY FAN
CT	CURRENT TRANSFORMER	KK	KIRK KEY	SFB	SUB-FEED CIRCUIT BREAKER
CU	COPPER; CONDENSING UNIT	KO	KNOCKOUT	SFL	SUB-FEED LUGS
CUH	CABINET UNIT HEATER	KP	KEYPAD	SN	SOLID NEUTRAL
CYL	CYLINDER	KV	KILOVOLTS	SP	SINGLE-POLE
		KVA	KILOVOLT-AMPERES	SPD	SURGE PROTECTION DEVICE
D	DEEP, DEPTH	KVAR	KILOVOLT-AMPERES REACTIVE	SPDT	SINGLE-POLE, DOUBLE-THROW
DB	DIRECT BURIED	KW	KILOWATTS	SPEC	SPECIFICATION
DC	DIRECT CURRENT	KWHR	KILOWATT-HOURS	SPST	SINGLE-POLE, SINGLE-THROW
DED	DEDICATED DEVICE ON INDIVIDUAL BRANCH CIRCUIT			SQ	SQUARE
DEMO	DEMOLISH; DEMOLITION	L	LENGTH, LONG	SQ FT	SQUARE FEET
DIA	DIAMETER	LA	LIGHTNING ARRESTOR	SQ IN	SQUARE INCH
DIAG	DIAGONAL	LB	POUND	SQ YD	SQUARE YARD
DISC	DISCONNECT	LCP	LIGHTING CONTROL RELAY PANEL	SS	STAINLESS STEEL
DISTR	DISTRIBUTION	LED	LIGHT EMITTING DIODE	S/S	START-STOP
DN	DOWN	LF	LINEAR FEET	ST	SHUNT TRIP
DPROT	DOUBLE-POLE, DOUBLE-THROW	LFM	LIQUDTIGHT FLEXIBLE METAL CONDUIT	STD	STANDARD
DPST	DOUBLE-POLE, SINGLE-THROW	LM	LUMEN	STP	SHIELDED TWISTED PAIR
DW	DISHWASHER	LOTO	LOCK-OUT TAG-OUT	SURF	SURFACE
DWG	DRAWING	LRA	LOCKED ROTOR AMPS	SW	SWITCH
		LSI	LONG-SHORT-INSTANTANEOUS	SWBD	SWITCHBOARD
EA	EACH	LSIG	LONG-SHORT-INSTANTANEOUS-GROUND FAULT	SYM	SYMMETRICAL
EC	ELECTRICAL CONTRACTOR, DIVISIONS 26-28	LT	LIGHT, LIQUDTIGHT		
EF	EXHAUST FAN	LTG	LIGHTING	T	TEMPERATURE, TRANSFORMER
EGB	ELECTRICAL GROUND BAR	LV	LOW VOLTAGE	TB	TERMINAL BLOCK
EGC	ELECTRICAL GROUNDING CONDUCTOR			TC	TIME CLOCK
EHD	ELECTRIC HAND DRYER	MAN	MANUAL	TCO	TEMPERATURE CONTROL CONTRACTOR
ELEC	ELECTRICAL	MAT	MATERIAL	TCP	TEMPERATURE CONTROL PANEL
ELEV	ELEVATOR; ELEVATION	MAX	MAXIMUM	TD	TIME DELAY
EM	EMERGENCY	MC	MECH. CONTRACTOR (DIV. 23); METAL CLAD CABLE	TR	TAMPER-RESISTANT
EMT	ELECTRICAL METALLIC TUBING	MCA	MINIMUM CIRCUIT AMPACITY	TS	TAMPER SWITCH
ENCL	ENCLOSURE	MCB	MAIN CIRCUIT BREAKER	TYP	TYPICAL
ENG	ENGINE	MCC	MOTOR CONTROL CENTER		
EO	ELECTRICALLY OPERATED	MCCB	MOLDED CASE CIRCUIT BREAKER	UC	UNDERCOUNTER; UNDERCABINET
EPO	EMERGENCY POWER OFF	MCP	MAIN DISTRIBUTION PANELBOARD	UG	UNDERGROUND
EQ	EQUAL	MECH	MECHANICAL	UL	UNDERWRITERS LABORATORY
EQUIP	EQUIPMENT	MED	MEDIUM	UNFN	UNFINISHED
ERM	ENERGY REDUCTION MAINTENANCE SWITCH	MEGB	MAIN ELECTRICAL GROUND BAR	UNO	UNLESS NOTED OTHERWISE
EST	ESTIMATED	MFG	MANUFACTURING	UTIL	UTILITY
ETR	EXISTING TO REMAIN	MFR	MANUFACTURER	UTP	UNSHIELDED TWISTED PAIR
EWC	ELECTRIC WATER COOLER	MFS	MAIN FUSED SWITCH	UV	UNIT VENTILATOR
EWH	ELECTRIC WATER HEATER	MH	MAN-HOLE; MOUNTING HEIGHT		
EXP	EXPOSED	MIN	MINIMUM	V	VOLT
EX	EXISTING	MISC	MISCELLANEOUS	VA	VOLT AMPERES
EXT	EXTERIOR	MLO	MAIN LUGS ONLY	VAR	VOLT AMPERES REACTIVE
		MOCP	MAXIMUM OVERCURRENT PROTECTION	VERT	VERTICAL
F	FUSED; FAHRENHEIT	MSB	MAIN SWITCHBOARD	VFD	VARIABLE FREQUENCY DRIVE
FA	FIRE ALARM	MTD	MOUNTED	VG	VANDAL GUARD
FAA	FIRE ALARM ANNUNCIATOR	MTG	MOUNTING	VIF	VERIFY IN FIELD
FACU	FIRE ALARM CONTROL UNIT	MTS	MANUAL TRANSFER SWITCH	VM	VENDING MACHINE
FB	FLOOR BOX	MV	MEDIUM VOLTAGE	VP	VANDAL PROOF
FC	FOOT-CANDLE	MVA	MEGAVOLT AMPERES	VR	VANDAL RESISTANT
FCU	FAN COIL UNIT	MVAR	MEGAVOLT AMPERES REACTIVE	VUV	VERTICAL UNIT VENTILATOR
FD	FUSED DISCONNECT	MW	MEGAWATTS; MICROWAVE OVEN		
FDN	FOUNDATION	N	NEUTRAL	W	WIDE, WIRE, WATT
FDR	FEEDER	N/A	NOT APPLICABLE	WO	WITHOUT
FIN	FINISHED	NC	NORMALLY CLOSED	WG	WIRE GUARD
FIXT	FIXTURE	NEG	NEGATIVE (-)	WP	WEATHERPROOF
FLA	FULL LOAD AMPS	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	WT	WATERTIGHT; WEIGHT
FLX	FLEXIBLE	NF	NON-FUSED DISCONNECT SWITCH		
FLR	FLOOR	NIC	NOT IN CONTRACT	XFER	TRANSFER
FM	FACTORY MUTUAL	NL	NIGHT LIGHT	XFMR	TRANSFORMER
FMC	FLEXIBLE METAL CONDUIT	NM	NON-METALLIC SHEATHED CABLE		
FPB	FAN POWERED BOX	NO	NORMALLY OPEN; NUMBER	Y	WYE
FS	FLOW SWITCH	NTS	NOT TO SCALE		
FTL	FEED THROUGH LUGS				

# ELECTRICAL LEGEND & SYMBOLS

## LIGHTING

SUBSCRIPTS FOR LIGHTING FIXTURES INDICATE THE FOLLOWING, U.O.N.  
NL - NIGHT LIGHT, PANEL SWITCHED, U.O.N.

	• LIGHT FIXTURE • TYPE AS INDICATED
	• WALL MOUNTED FIXTURE • TYPE AS INDICATED
	• LIGHTING FIXTURE • TYPE AS INDICATED
	• POLE MOUNTED LIGHT FIXTURE • TYPE AS INDICATED
	• TRACK AND TRACK LIGHT FIXTURE
	• EMERGENCY BATTERY WALL PACK • TYPE AS INDICATED
	• SHADING INDICATES EMERGENCY FIXTURE CONNECTED TO BATTERY INVERTER OR GENERATOR • CONNECT BATTERY INVERTER TO UNSWITCHED SOURCE IN ADDITION TO SWITCHING INDICATED
	• EXIT SIGN • DIRECTIONAL ARROWS AS INDICATED • SHADING INDICATES ILLUMINATED FACE • CONNECT TO UNSWITCHED BRANCH CIRCUIT INDICATED • END / WALL / CEILING

## POWER DISTRIBUTION

	• POWER DISTRIBUTION PANELBOARD • 480Y/277V, 3Ø, 4W • FLOOR / SURFACE
	• POWER DISTRIBUTION PANELBOARD • 2Ø8Y/12ØV, 3Ø, 4W • FLOOR / SURFACE
	• BRANCH CIRCUIT PANELBOARD • 2Ø8Y/12ØV OR 48ØY/277V, 3Ø, 4W • FLUSH / SURFACE
	• TERMINAL CABINET, TYPE AS NOTED ON DRAWINGS • FLUSH / SURFACE
	• DRY, TYPE TRANSFORMER, RATING AS INDICATED • HOUSEKEEPING PAD
	• SWITCHBOARD W/MAIN CIRCUIT BREAKER SECTION • HOUSEKEEPING PAD
	• AUTOMATIC TRANSFER SWITCH
	• WORKING CLEARANCE ABOUT ELECTRICAL EQUIPMENT
	• ELECTRIC MANHOLE
	• GROUND ROD
	• MOTOR - "M" INDICATES HORSEPOWER
	• HEAVY-DUTY, FUSED DISCONNECT SWITCH (DS-#)
	• HEAVY-DUTY, NON-FUSED DISCONNECT SWITCH (DS-#)
	• COMBINATION MOTOR STARTER AND DISCONNECT SWITCH (MS-#)
	• VARIABLE FREQUENCY DRIVE (MS-#)
	• FRACTIONAL HORSEPOWER MANUAL CONTROLLER WITH THERMAL OVERLOADS (MS-#)
	• EMERGENCY POWER OFF BUTTON
	• PUSH BUTTON CONTROL STATION

## CONDUIT & FEEDER

	• UNDERGROUND ELECTRICAL SERVICE
	• OVERHEAD ELECTRICAL SERVICE
	• CONDUIT - TURNED UP
	• CONDUIT - TURNED DOWN
	• HOME RUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED
	• GROUND CONDUCTOR
	• PHASE CONDUCTOR
	• NEUTRAL CONDUCTOR
	• ONE-LINE DIAGRAM • EXISTING FEEDER & CONDUIT
	• ONE-LINE DIAGRAM • DEMOLISHED FEEDER & CONDUIT
	• ONE-LINE DIAGRAM • NEW (NORMAL) FEEDER & CONDUIT
	• ONE-LINE DIAGRAM • NEW (EMERGENCY) FEEDER & CONDUIT
	• ONE-LINE DIAGRAM & FLOOR PLANS • NEW FEEDER & CONDUIT SIZE • REFER TO FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER) OR FEEDER SCHEDULE (ALUMINUM) BASED ON SPECIFICATIONS AND PROVIDE BOTH FEEDER AND CONDUIT SIZE INDICATED

## WIRING DEVICES

SUBSCRIPTS FOR RECEPTACLES, JUNCTION BOXES AND OTHER DEVICES INDICATE THE FOLLOWING, U.O.N.

	• SIMPLEX RECEPTACLE • NEMA 5-2ØR, 125V, 2ØA
	• DUPLEX RECEPTACLE • NEMA 5-2ØR, 125V, 2ØA
	• DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE • NEMA 5-2ØR, 125V, 2ØA
	• DUPLEX RECEPTACLE • EMERGENCY CIRCUIT • NEMA 5-2ØR, 125V, 2ØA
	• DUPLEX RECEPTACLE • SPLIT-WIRE • NEMA 5-2ØR, 125V, 2ØA
	• DUPLEX RECEPTACLE • PLUG-LOAD CONTROLLED • NEMA 5-2ØR, 125V, 2ØA
	• DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE • PLUG-LOAD CONTROLLED • NEMA 5-2ØR, 125V, 2ØA
	• SPECIAL RECEPTACLE • NEMA CONFIGURATION AS INDICATED ON DRAWING
	• JUNCTION BOX
	• DIRECT CONNECTION TO EQUIPMENT
	• PULLBOX • PROVIDE ADDITIONAL PULLBOXES AS A MINIMUM • PROVIDE ADDITIONAL PULLBOXES, SIZED PER NEC, AS REQUIRED
	• FLUSH JUNCTION BOX WITH FURNITURE FEED ADAPTING CONNECTOR MOUNTED AT 8" A.F.F.
	• SURFACE-MOUNTED RACEWAY • RECEPTACLES IN LOCATIONS INDICATED
	• WIREWAY • WALL MOUNTED U.O.N.
	• FLOOR BOX
	• SINGLE-POLE SWITCH
	• THREE-WAY SWITCH
	• FOUR-WAY SWITCH
	• SINGLE-POLE SWITCH W/ PILOT LIGHT
	• THREE-WAY SWITCH WITH PILOT LIGHT
	• KEY OPERATED SINGLE-POLE SWITCH
	• KEY OPERATED THREE-WAY SWITCH

## GENERAL ROUGH-IN MOUNTING HEIGHT NOTES

#	NOTES
A	COMPLETE COMPLIANCE WITH ALL ASPECTS OF ADA STANDARDS FOR ACCESSIBLE DESIGN AND ICC/ANSI A117.1 IS REQUIRED OF ALL PROJECTS AND ACTIVITIES.
B	MOUNTING HEIGHTS INDICATED ARE FOR TYPICAL DEVICES, UNLESS NOTED OR SPECIFIED OTHERWISE.
C	COORDINATE MOUNTING HEIGHTS OF ANY DEVICES WHICH ARE NOT INDICATED BY ARCHITECT OR AN/IOB ENGINEER.
D	REFERENCE DIVISIONS 8, 10, 14, 22, 23, AND 27 FOR ADDITIONAL MOUNTING HEIGHTS.

## MOUNTING HEIGHTS

SYMBOL	MOUNTING HEIGHT ABOVE FINISHED FLOOR (U.O.N.)
	• +18" TO CENTER OF RECEPTACLE
	• +6" ABOVE TOP OF COUNTERTOP TO BOTTOM OF RECEPTACLE
	• +18" TO CENTER OF RECEPTACLE
	• +6" ABOVE TOP OF COUNTERTOP TO BOTTOM OF RECEPTACLE
	• FLUSH TO CEILING
	• +46" TO CENTER OF LIGHT SWITCH / CONTROLS
	• +46" TO CENTER OF DIMMER / CONTROLS
	• COORDINATE MOUNTING HEIGHT WITH EQUIPMENT IF NOT INDICATED ON DRAWING
	• +46" TO CENTER OF EMERGENCY SHUT-OFF
	• +80" TO BOTTOM OF WALL MOUNTED FIRE ALARM DEVICE
	• +46" TO CENTER OF MANUAL PULL STATION
	• REFER TO SPECIFICATIONS AND GENERAL SYMBOLS & ABBREVIATIONS NOTES (ALL DRAWINGS)
	• +90" TO TOP OF POWER DISTRIBUTION PANELBOARD'S TRIM
	• +72" TO TOP OF PANELBOARD'S TRIM
	• +72" TO TOP OF EQUIPMENT
	• +72" TO TOP OF EQUIPMENT
	• +46" TO CENTER OF MOTOR STARTER TOGGLE SWITCH

## LIGHTING CONTROL DEVICES

SYMBOL	MOUNTING	DIMMING TYPE	OCCUPANCY SENSOR TYPE	SWITCH BUTTONS	CONTROL DESCRIPTION
	WALL	0-10V	N/A	(1)	• (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL) OFF • (1) MANUAL LIGHT LEVEL WITH SLIDER
	WALL	0-10V	DUAL TECH.	(1)	• (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL) OFF • (1) MANUAL LIGHT LEVEL WITH SLIDER • MANUAL ON / AUTO OFF
	WALL	LINE VOLT.	N/A	(1)	• (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL) OFF • (1) MANUAL LIGHT LEVEL WITH SLIDER
	WALL	DMX	N/A	MULTI.	• DMX COLOR CHANGING CONTROLLER • NICOLAUDIE STICK-CU4
	WALL	N/A	DUAL TECH.	(1)	• (1) MANUAL SWITCH ON/OFF • MANUAL ON / AUTO OFF
	WALL	N/A	DUAL TECH.	(2)	• (2) MANUAL SWITCH ON/OFF • MANUAL ON / AUTO OFF
	WALL	N/A	DUAL TECH.	(1)	• (1) MANUAL SWITCH ON/OFF • AUTO ON / AUTO OFF
	CEILING	N/A	DUAL TECH.	N/A	• MANUAL CONTROLS & AUTO-ON / AUTO-OFF • 1000 SQFT COVERAGE • TWO RELAYS IN POWER PACK
	CEILING	N/A	DUAL TECH.	N/A	• MANUAL CONTROLS & AUTO-ON / AUTO-OFF • 1000 SQFT COVERAGE • TWO RELAYS IN POWER PACK • PLUG-LOAD CONTROL OF RECEPTACLES INDICATED IN ROOM, U.O.N.
	CEILING	N/A	PIR	N/A	• MANUAL CONTROLS & AUTO-ON / AUTO-OFF • TWO RELAYS IN POWER PACK • HIGH-BAY COVERAGE
	CEILING	N/A	N/A	N/A	• DAY-LIGHT HARVESTING CONTROLLER W/AUTO DIMMING

## FIRE ALARM SYSTEM

SUBSCRIPTS FOR FIRE ALARM SYSTEM DEVICES INDICATE THE FOLLOWING, U.O.N.

SYMBOL	MOUNTING	DESCRIPTION
	WALL	• FIRE ALARM CONTROL UNIT • FLUSH / SURFACE
	WALL	• REMOTE FIRE ALARM CONTROL UNIT • FLUSH / SURFACE
	WALL	• FIRE ALARM ANNUNCIATOR UNIT • FLUSH / SURFACE
	WALL	• MANUAL PULL STATION
	WALL	• SPEAKER • WALL / CEILING
	WALL	• SPEAKER/STROBE • WALL / CEILING
	WALL	• HORN • WALL / CEILING
	WALL	• HORN/STROBE • WALL / CEILING
	WALL	• VISUAL STROBE • WALL / CEILING
	WALL	• BELL WITH VISUAL INDICATOR • WALL
	WALL	• SMOKE DETECTOR • CEILING
	WALL	• HEAT DETECTOR • CEILING
	WALL	• COMBINATION SMOKE /

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)

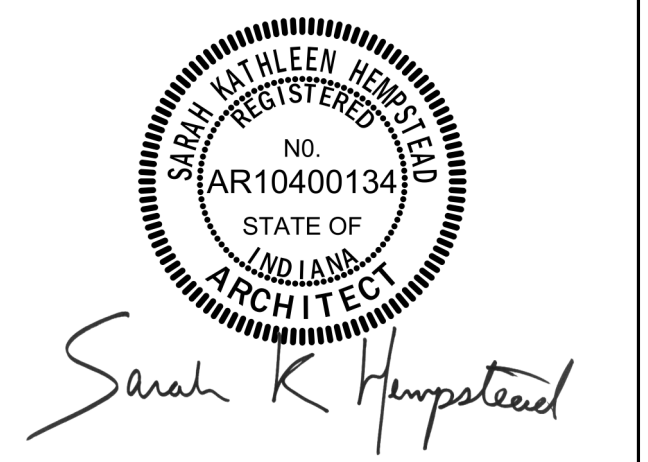
- NOTES: A. PROVIDE BOTH NEW CONDUCTORS AND NEW CONDUIT FOR ALL FEEDERS AND BRANCH CIRCUITS INDICATED WITH A FEEDER/BRANCH CIRCUIT LABEL. B. REUSE ANY EXISTING CONDUCTORS AND/OR CONDUIT UNLESS SPECIFICALLY NOTED ON DRAWINGS, ONE-LINE DIAGRAM, ETC. C. REFER TO SPECIFICATIONS FOR MINIMUM CONDUCTOR AND CONDUIT SIZES. D. FOR ALL NEW AND EXISTING CONDUIT INSTALLATIONS, REFER TO THE NEC FOR CONDUIT AND TUBING FILL TABLES. E. 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. 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. L. COORDINATE LOCATION OF CEILING MOUNTED FIRE ALARM DEVICES WITH OTHER EQUIPMENT TO AVOID INTERFERENCE. 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. 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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Table with columns for Revision and Date.

3705 IN-16
Brook, IN 47922

NEWTON COUNTY BOARD OF COMMISSIONERS

HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5

GENERAL INFORMATION

E-002.5

6 5 4 3 2 1

**LOCAL UTILITY CONTACT INFORMATION**  
 • WILLIAM N. WARREN  
 • williamwarren@nisource.com  
 • (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.

**SITE LIGHTING PLAN NOTES**

#	NOTES
1	REUSE CONDUIT AND BOXES IN GARDEN FOR NEW LIGHTING WIRING.
2	DISCONNECT AND REMOVE EXISTING POLE FIXTURE. REMOVE CONCRETE BASE. REMOVE WIRING. ABANDON CONDUIT IN PLACE AND PROVIDE END CAP.
3	REFER TO DETAIL 1AE-501.5 AND 3AE-501.5.
4	EXISTING POLE AND LIGHTING FIXTURE IS EXISTING TO REMAIN.
5	REFER TO DETAIL 1CE-501.5.



**SCHMIDT ASSOCIATES**  
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*Sarah K. Hempstead*  
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**SITE LIGHTING PLAN**  
 ES101.5



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

6 5 4 3 2 1

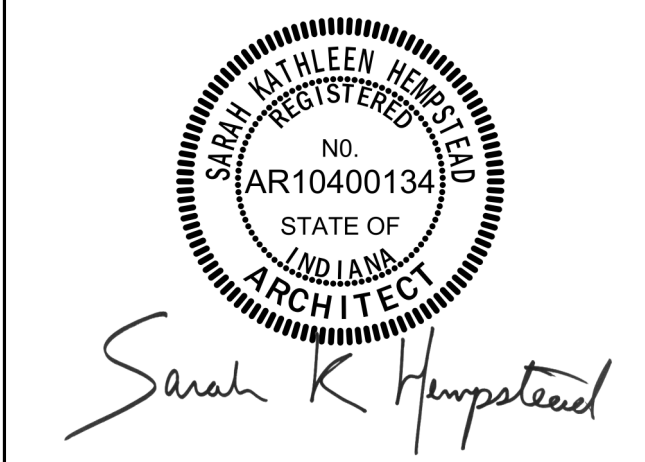
DATE: 01.08.2026  
 PROJECT: HAZELDEN ESTATE RESTORATION - SUPPLEMENTAL SITE WORK - BID PACKAGE 5  
 DRAWING: ES101.5  
 SHEET: 2A  
 SCALE: 1" = 30'-0"

### GENERAL LIGHT FIXTURE SCHEDULE NOTES

#	NOTES
A	PROVIDE ALL FIXTURES AND FIXTURE INSTALLATIONS IN ACCORDANCE WITH NEC, NFPA, AND LOCAL CODES. PROVIDE UL LISTED FIXTURES AND INSTALL IN ACCORDANCE WITH THE LISTING.
B	COORDINATE ALL FIXTURE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC. REQUIRED FOR A COMPLETE UL LISTED INSTALLATION.
C	PROVIDE ALL DRIVERS, LED MODULES, LENSES, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL LIGHTING UNIT.
D	BID ONLY THE LIGHTING MANUFACTURERS/SERIES SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. A DOCUMENTED PRE-BID SUBMITTAL MUST BE APPROVED BY THE ENGINEER OF THE PROJECT FOR ANY ADDITION/SUBSTITUTION OF THE MANUFACTURERS LISTED DURING BIDDING. APPROVED MANUFACTURERS WILL BE ADOPTED UNLESS OTHERWISE NOTED BY ADDENDUM.
E	COORDINATE LIGHTING SYSTEM REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, THE LIGHT FIXTURE SCHEDULE, PLANS, PLAN NOTES, DETAILS, SCHEMATICS, SPECIFICATIONS, ETC.
F	REFER TO LIGHT FIXTURE SCHEDULE, LIGHTING PLANS, AND ARCHITECTURAL REFLECTED CEILING FIXTURES FOR ALL CEILING TYPES, FINAL LOCATIONS, ELEVATIONS, AND FIXTURE LENGTHS REQUIRED.
G	LUMEN VALUES LISTED IN THE LIGHT FIXTURE SCHEDULE ARE THE MINIMUM DELIVERED LUMENS ALLOWED. PROVIDE LIGHT FIXTURES EQUAL TO OR EXCEEDING THE LISTED VALUES.
H	COORDINATE AND PROVIDE LIGHTING/DIMMING CONTROLS COMPATIBLE WITH ALL FIXTURES, DRIVERS, LED MODULES, ETC.
I	PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL EMERGENCY FIXTURES (EXIT SIGNS, WALL PACKS, INVERTERS, ETC.).
J	PROVIDE A MINIMUM OUTPUT OF 900 LUMENS FOR POINT SOURCE FIXTURES AND 1,200 LUMENS FOR LINEAR FIXTURES ON ALL FIXTURES DESIGNED AS EMERGENCY (CONTAINING INTERNAL BATTERY INVERTERS). PROVIDE ILLUMINATION LASTING A MINIMUM OF 90 MINUTES.
K	VERIFY THE VOLTAGE OF ALL FIXTURES. REFER TO PLANS FOR SPECIFIC VOLTAGE REQUIREMENTS.
L	PROVIDE FACTORY INSTALLED DISCONNECTING MEANS FOR EACH FIXTURE WITH SERVICEABLE COMPONENTS.
M	THE ENGINEER RESERVES THE RIGHT TO SELECT FROM ALL AVAILABLE STANDARD COLORS FOR FIXTURES, POLES, MOUNTING ACCESSORIES, ETC. DURING SUBMITTAL REVIEW.
N	PROVIDE FIXTURES WITH CUSTOM COLORS/FINISH AS SELECTED BY THE ENGINEER WHERE INDICATED.
O	PAINT AFTER FABRICATION WITH NO SHARP EDGES FOR ALL LIGHT FIXTURES.
P	PROVIDE APPROPRIATE SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS REQUIRED FOR THE CEILING TYPE.
Q	PROVIDE SPRING-LOADED CAM LATCHES FOR ALL LINEAR FIXTURES UTILIZING A HINGED DOOR.
R	PROVIDE VIBRATION DAMPERS FOR ALL ALUMINUM & STEEL POLES 20'-0" AND ABOVE.
S	PROVIDE UL 1449, 20KV SURGE PROTECTION DEVICES FOR ALL EXTERIOR FIXTURES. PROVIDE IN-LINE FUSES WITH 600 VOLT LAMP HOLDERS FOR ALL POLE-MOUNTED FIXTURES.



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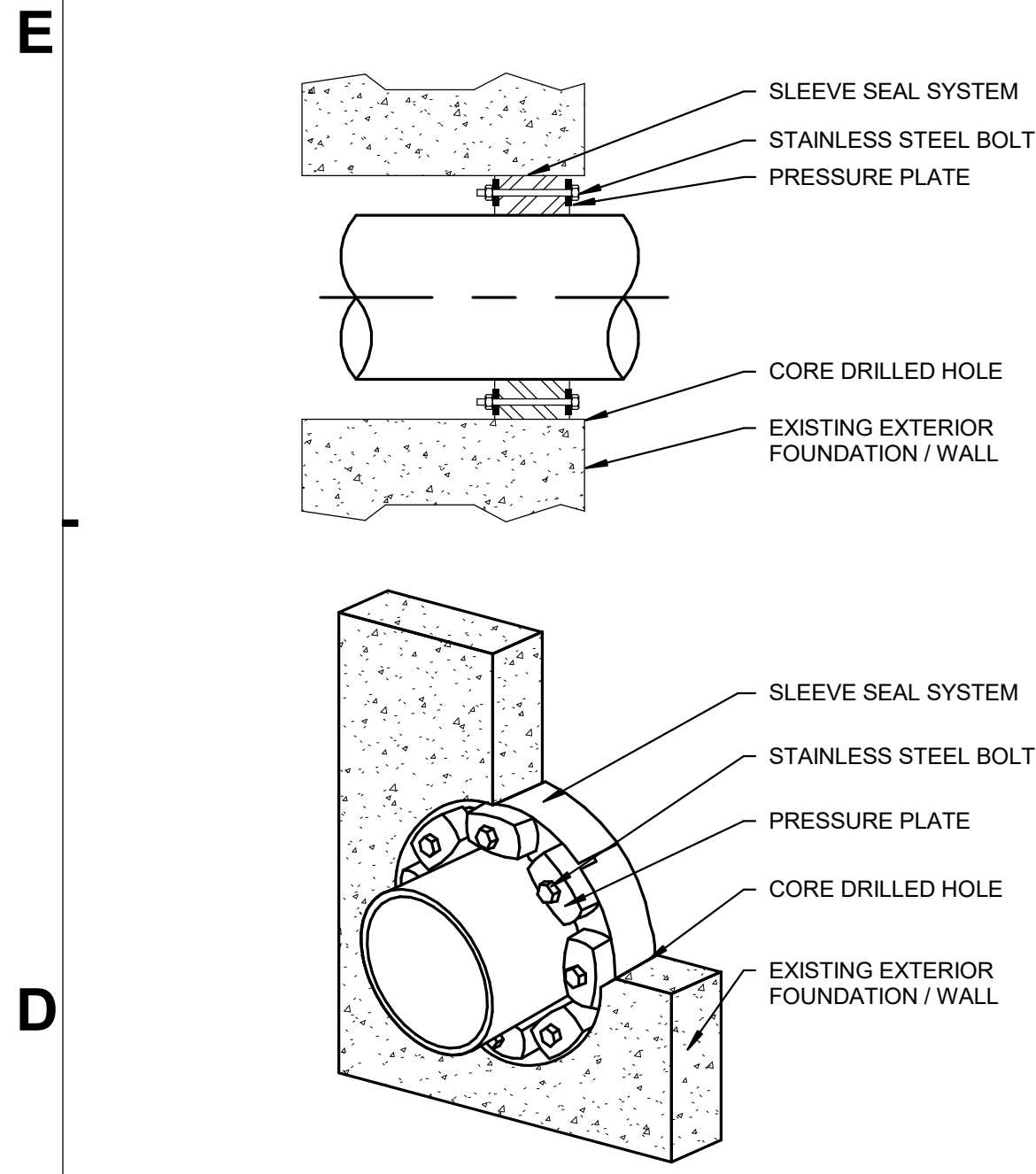
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### 265119/265619/26213.1 - INTERIOR/EXTERIOR/EMERGENCY & EXIT LIGHT FIXTURES SCHEDULE

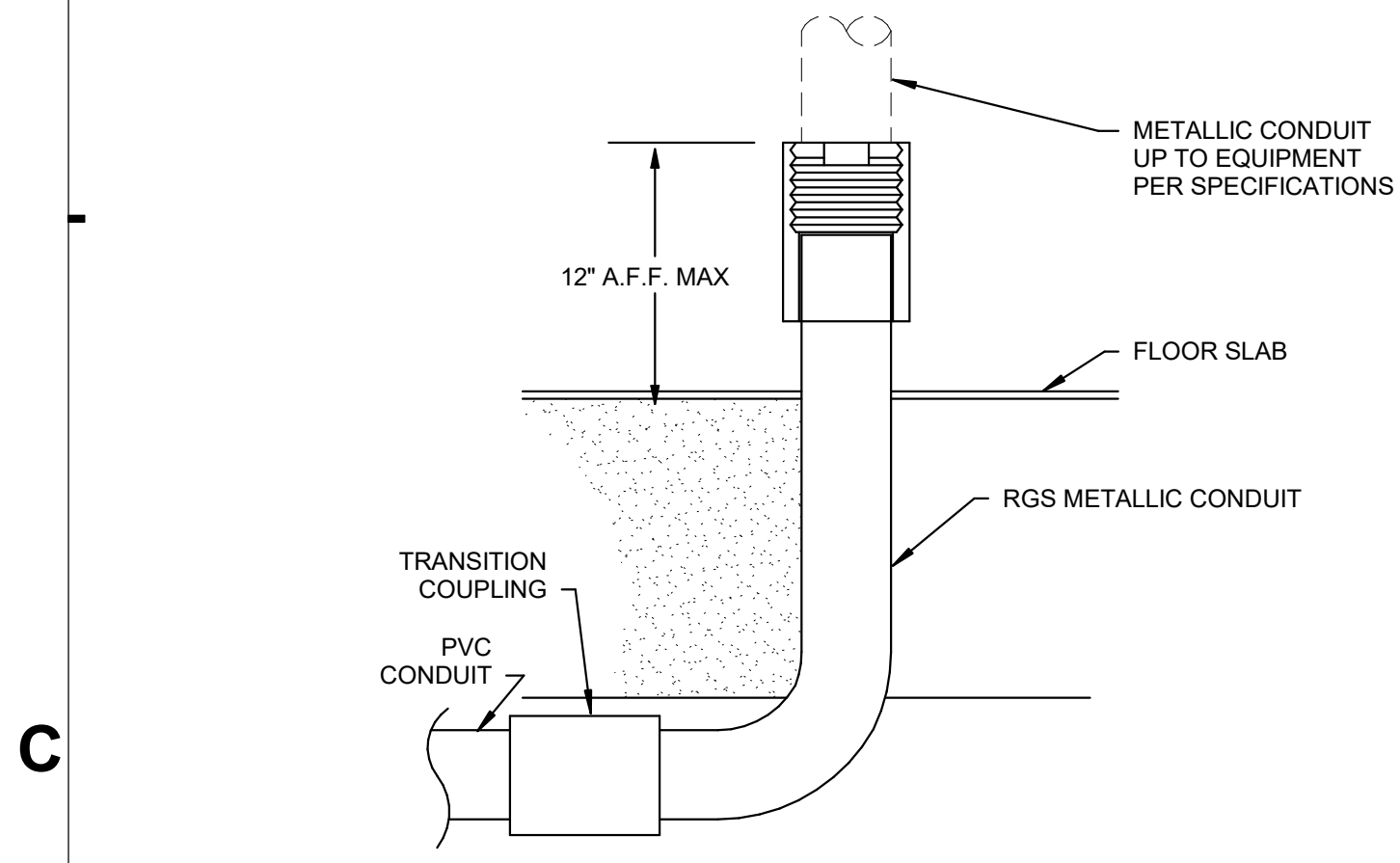
LABEL	DESCRIPTION	VOLTAGE	TYPE	SOURCE			MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	LABEL
				LUMENS	WATTS	CCT					
S1	LED SITE FIXTURE WITH STRAIGHT EDGE ALUMINUM SHADE. SINGLE-PIECE ALUMINUM DRIVER HOUSING. SHEPARD HOOK ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL. POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	240 V	LED	10,000 LM	90 W	3000 K	15' POLE WITH CONCRETE BASE	DIFFUSED ACRYLIC	N/A	STERNBURG GALLERY-R2-BIRMINGHAM	S1
S2	GROUND MOUNTED EXTERIOR FLOOD LIGHT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. MEDIUM FLOOD. 3000K. 0-10V DIMMING.	120 V	LED	2,000 LM	62 W	3000 K	PROVIDE CONCRETE BASE ACCORDING TO MANUFACTURER	CLEAR ACRYLIC	N/A	VISTA 1045	S2
S3	WALK & DRIVE-OVER SEMI-RECESSED INGROUND MARKER LIGHT. STAINLESS STEEL HOUSING. INTEGRAL 10KV SURGE SUPPRESSOR. IP67 RATING FOR WET LOCATIONS. IK10 RATING FOR IMPACT RESISTANCE.	120 V	LED	220 LM	8 W	3000 K	PROVIDE CONCRETE BASE ACCORDING TO MANUFACTURER	CLEAR ACRYLIC	N/A	LIGMAN MASK	S3
S4	LED SITE FIXTURE WITH STRAIGHT EDGE ALUMINUM SHADE. SINGLE-PIECE ALUMINUM DRIVER HOUSING. SHEPARD HOOK ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL. POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (4) HEADS, 90° APART.	240 V	LED	40,000 LM	360 W	3000 K	15' POLE WITH CONCRETE BASE	DIFFUSED ACRYLIC	N/A	STERNBURG GALLERY-R2-BIRMINGHAM	S4

### 262913.1 - LIGHTING CONTACTORS SCHEDULE

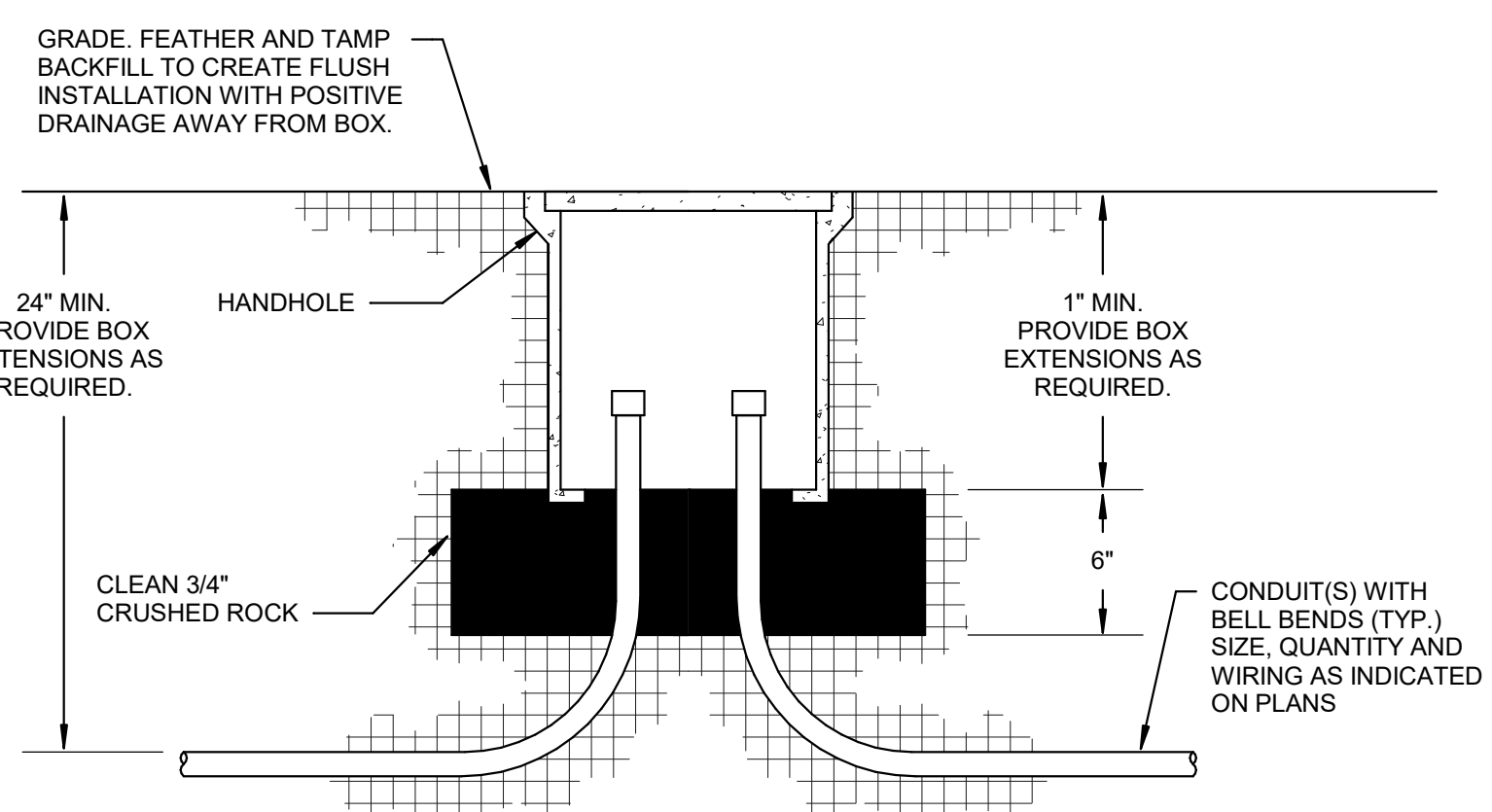
LABEL	LOCATION		EQUIPMENT RATINGS				COIL CIRCUIT			CONTROL	CIRCUIT(S) CONTROLLED	REMARKS	
	NUMBER	NAME	VOLTAGE	AMPERAGE	POLES	NEMA ENCL.	ACCESSORIES	VOLTAGE	PANEL				CIRCUIT
LC-2			120 V	30 A	6	NEMA 3R	H-3-A PILOT LIGHT	120 V	12G1	3	TIME CLOCK MOUNTED ON STRUT	12G1-3,5,7	



**6D SLEEVE SEAL SYSTEM WITH SLEEVE DETAIL**  
NOT TO SCALE



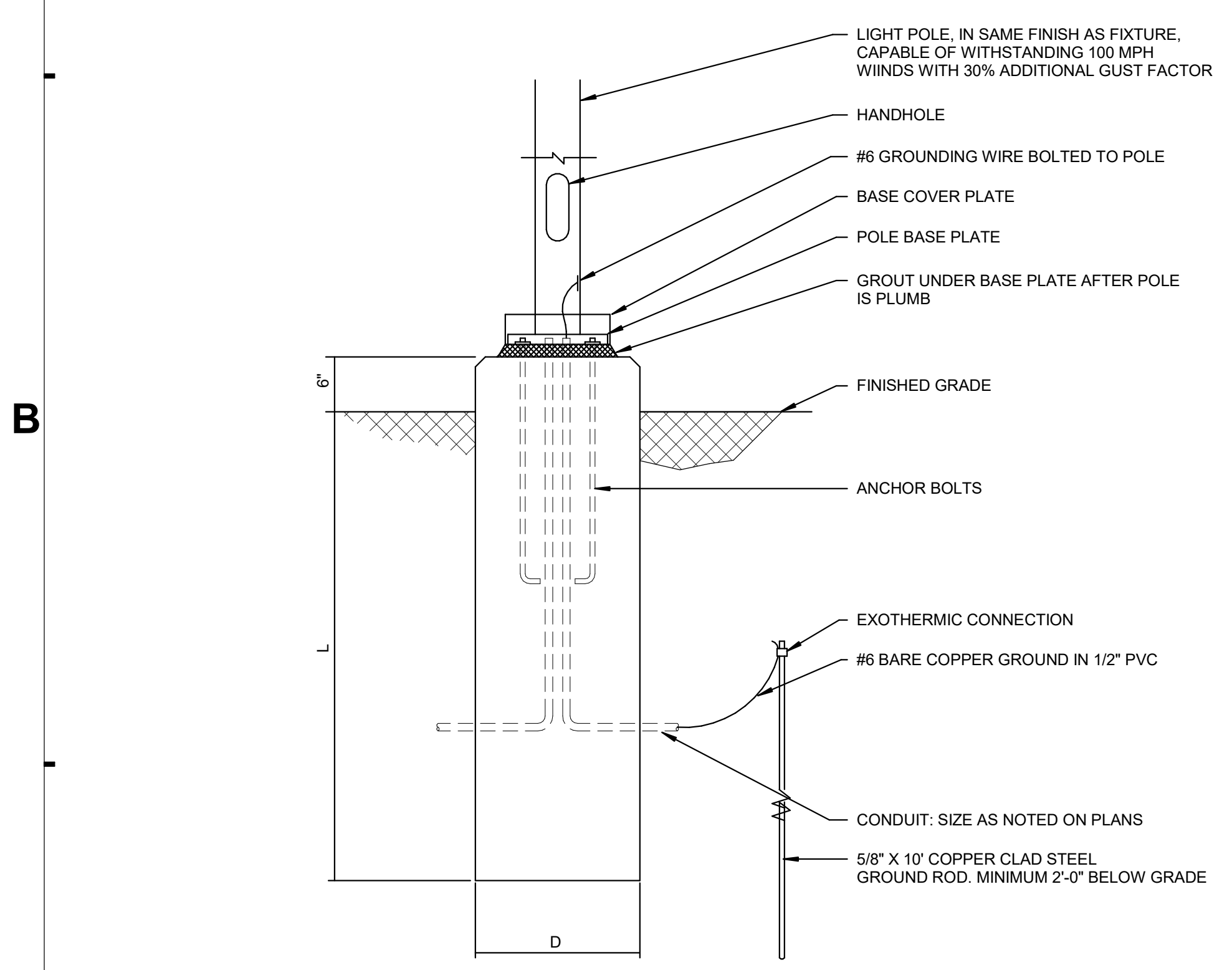
**6C PVC TO ABOVE GROUND CONDUIT STUB-UP DETAIL**  
NOT TO SCALE



**4C CONCRETE HANDHOLE QUAZITE BOX DETAIL**  
NOT TO SCALE



**1 PANEL 12G1**  
NOT TO SCALE

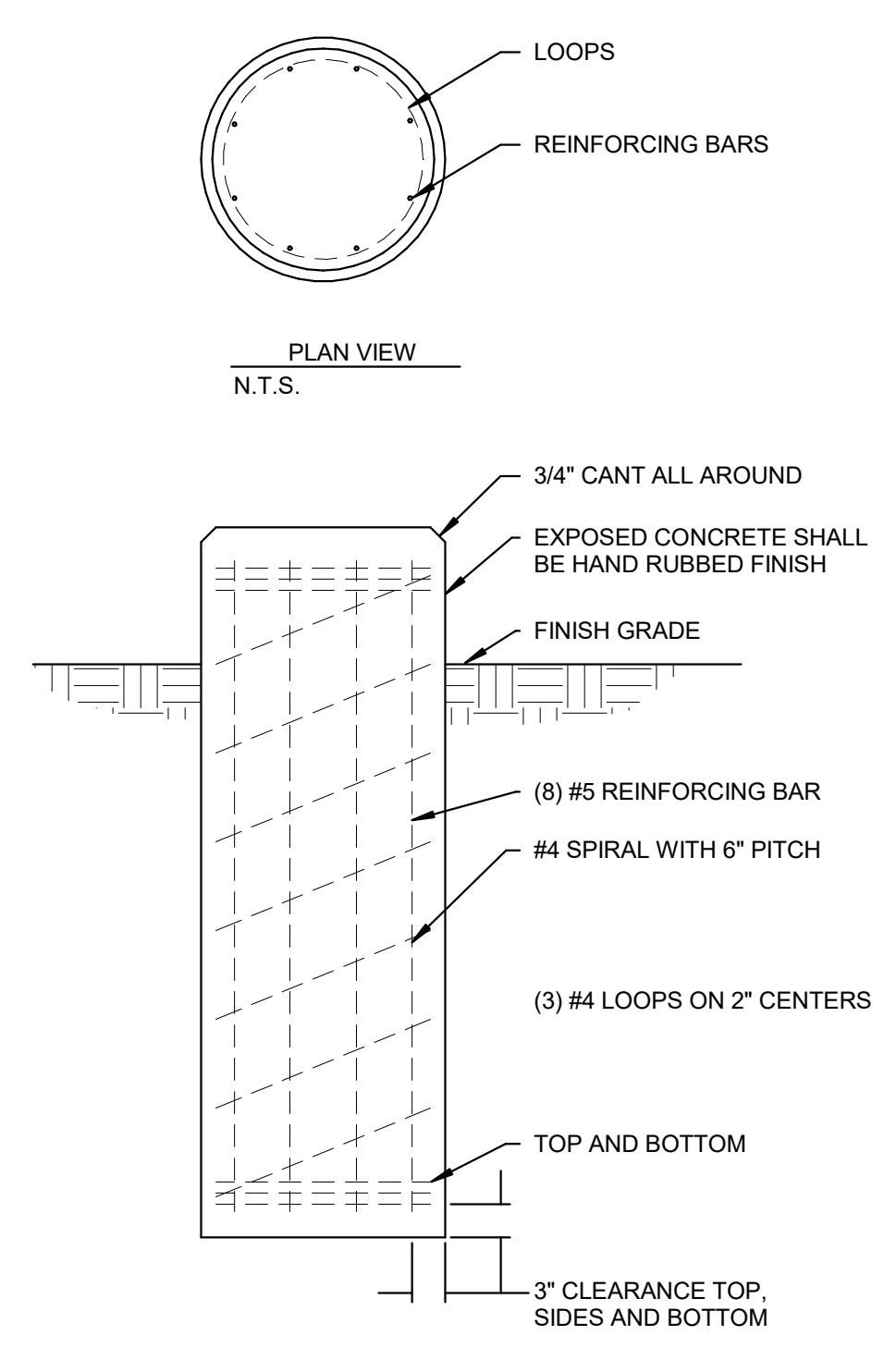


#### DIMENSIONS

POLE HEIGHT	L	D
0'-0" < POLE HEIGHT ≤ 12'-0"	4'-6"	1'-6"
12'-0" < POLE HEIGHT ≤ 20'-0"	5'-0"	2'-0"
20'-0" < POLE HEIGHT ≤ 30'-0"	6'-0"	2'-6"
30'-0" < POLE HEIGHT ≤ 40'-0"	7'-0"	3'-0"

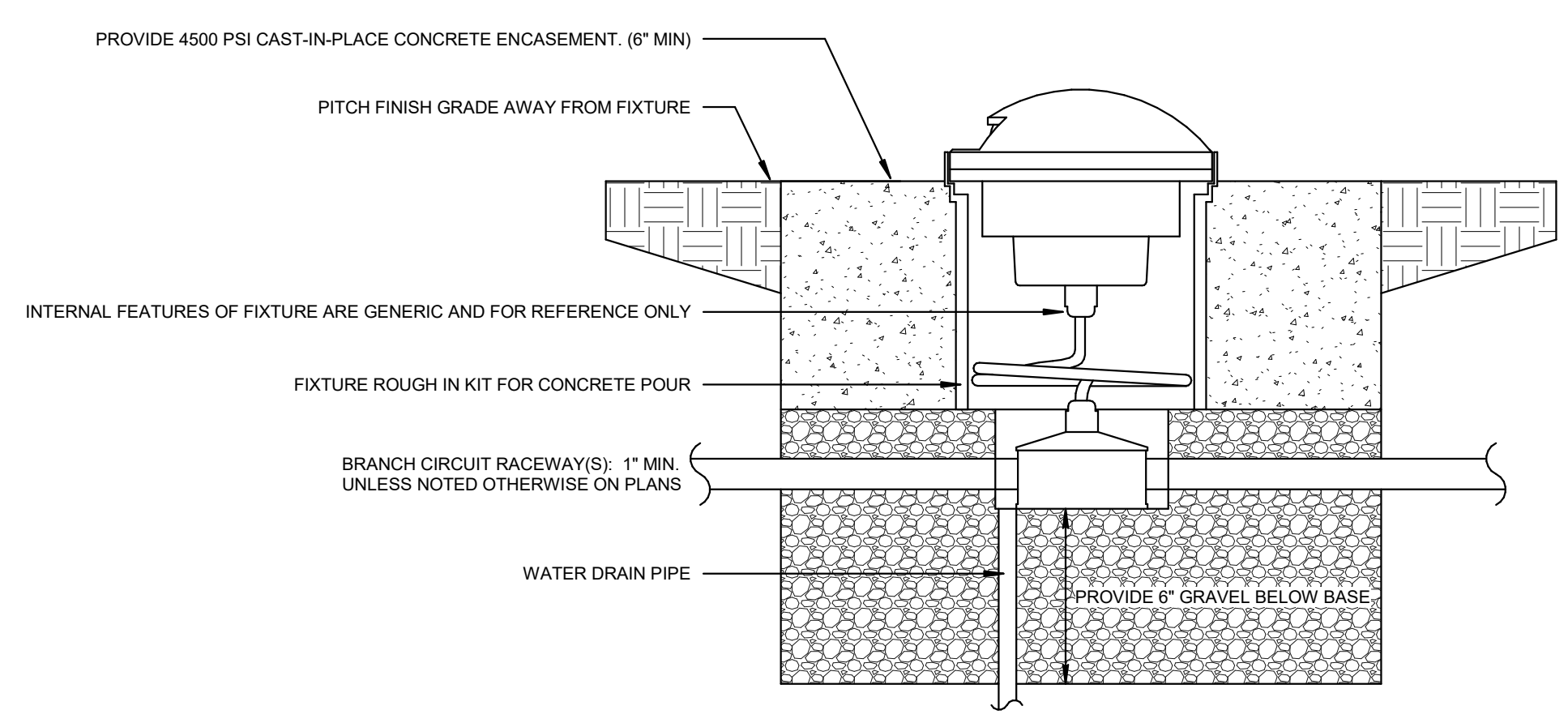
- NOTES:
- VERIFY ANCHOR BOLT LOCATIONS WITH MANUFACTURER'S TEMPLATE PRIOR TO BASE CONSTRUCTION
  - REFER TO POLE BASE CONCRETE AND REINFORCING DETAIL 3 FOR ADDITIONAL REQUIREMENTS
  - THIS POLE BASE SHALL BE USED WHERE POLE IS IN GRASSY AREA PROTECTED BY CURB OR OTHER BARRIER

**5A POLE BASE - 6"**  
NOT TO SCALE



- NOTES:
- USE 4000 PSI 28 DAY STRENGTH CONCRETE FOR POLE BASE
  - PLACE CONCRETE THE SAME DAY BASE IS DRILLED
  - USE SONOTUBE FORM ABOVE GRADE AND EXTEND TO 6" BELOW GRADE
  - REFER TO POLE BASE DETAIL FOR DIMENSIONS

**4A POLE BASE CONCRETE AND REINFORCING DETAIL**  
NOT TO SCALE



**2A In-Grade Light Fixture Detail**  
NOT TO SCALE

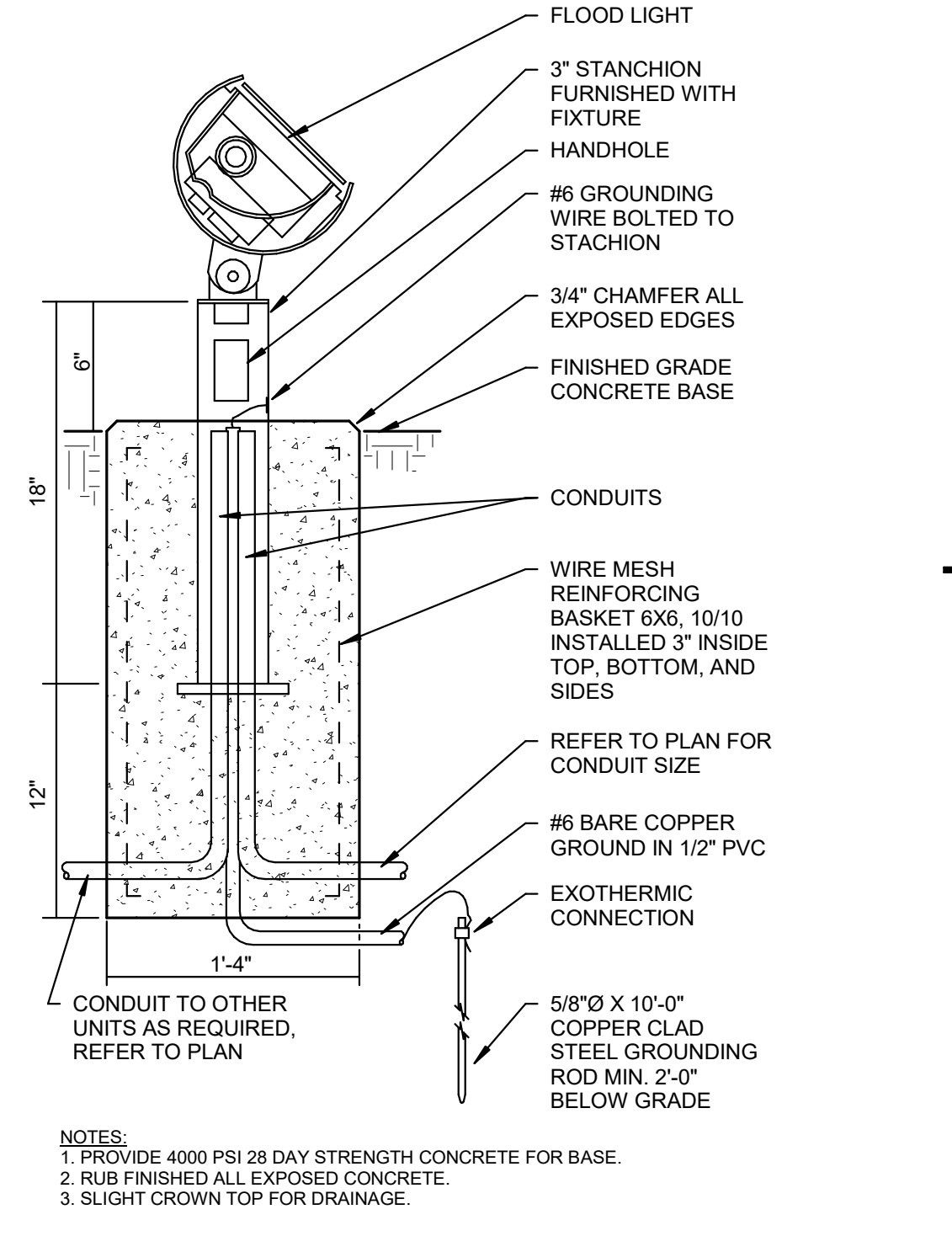
### GENERAL SWITCHBOARD/PANELBOARD NOTES

#	NOTES
A	VERIFY SIZE AND QUANTITY OF LUGS REQUIRED PER ONE-LINE DIAGRAM.
B	VERIFY PANEL / LUG SIZE REQUIRED FOR FEEDERS INDICATED ON ONE-LINE DIAGRAM. MODIFY AS REQUIRED FOR LARGER FEEDERS.
C	VERIFY CONDUIT ENTRY LOCATION ON EACH PANEL.
D	CONFIRM FINAL ROOM NAMES AND NUMBERS WITH OWNER PRIOR TO CREATING FINAL PANELBOARD DIRECTORIES.
E	MODIFY AIC RATINGS INDICATED ON SCHEDULES, AS REQUIRED, PER SPECIFICATION SECTION 260574.99.

### SWITCHBOARD/PANELBOARD NOTES

#	NOTES
1	PROVIDE NEW 20A, 1 PHASE BREAKER FOR NEW LIGHTING CIRCUIT. VERIFY BREAKER IS COMPATIBLE WITH PANELBOARD PRIOR TO ORDER.

**1 FLOODLIGHT STANCHION BASE DETAIL**  
NOT TO SCALE



**1A FLOODLIGHT STANCHION BASE DETAIL**  
NOT TO SCALE

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DETAILS & SCHEDULES