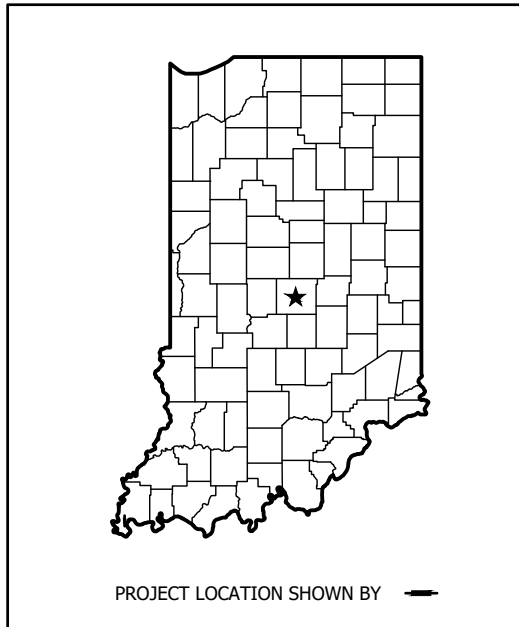


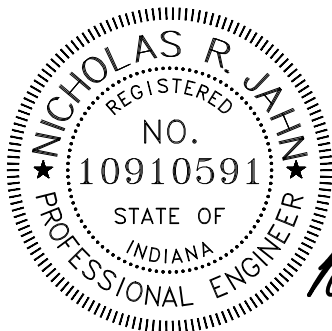
INDIANA DEPARTMENT OF NATURAL RESOURCES  
HOVEY LAKE OFFICE AND VISIOTRS CENTER  
FISH AND WILDLIFE AREA  
POSEY COUNTY



Hovey Lake Visitor's Center and Office  
Paving Improvement  
South Highway 69  
Mt. Vernon, IN

LATITUDE: 37° 54' 58.28" N

LONGITUDE: 87° 56' 42.18" W



[INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2020 TO  
BE USED WITH THESE PLANS]



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Phone: (317) 293-3542

Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT#: 20-4319  
DRAWING: 1

## DRAWING INDEX

NUMBER	DESCRIPTION
1	TITLE SHEET
2	INDEX AND GENERAL NOTES
3	VICINITY MAP
4	EXISTING SITE
5	DEMOLITION PLANS
6	FINE GRADING AND DRAINAGE PLAN
7	PAVING AND PATCHING PLANS
8	STRIPING AND SIGNAGE PLANS
9	EROSION CONTROL BMP'S
10 - 15	SITE DETAILS
16 - 20	TYPE II DRIVEWAY PERMIT DETAILS

### UTILITIES

**ELECTRIC:**

VECTREN ENERGY DELIVERY  
 CONTACT: JODY CHAPMAN  
 1 N. MAIN STREET  
 EVANSVILLE, IN 47711  
 812.491.4765  
 Jody.Chapman@centerpointenergy.com

**WATER:**

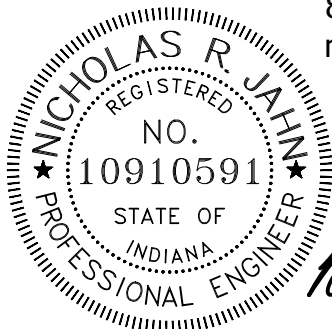
MT. VERNON WATER DEPARTMENT  
 CONTACT: CHARLES GRAY  
 123 COLLEGE AVE  
 MT. VERNON, IN 47620  
 812.838.2136

**COMMUNICATION**

ATT DISTRIBUTION  
 CONTACT: MARC CLARK  
 134 NW 6TH STREET  
 EVANSVILLE, IN 47708  
 812.464.6050  
 mc3429@att.com

**GAS:**

VECTREN ENERGY DELIVERY  
 CONTACT: SHELBY WILLIAMS  
 1 N. MAIN STREET  
 EVANSVILLE, IN 47711  
 812.491.4765  
 Shelby.Williams@centerpointenergy.com



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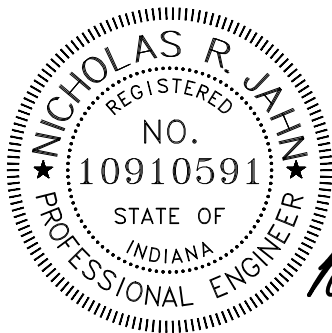
4275 North High School Rd  
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Index  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

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PROJECT#:	20-4319
DRAWING:	2



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**Driving Directions:**

Take IN 37 South, becoming I-69 South. Follow I-69 South to Evansville and take exit 7B for Lloyd Expressway/IN 66. Continue along Lloyd Expressway/IN 66 West to Mt. Vernon. Lloyd Expressway becomes IN -62/Ohio River Scenic Byway. Turn left onto IN 69 South, continue 0.9 miles to Hovey Lake Office, on the right.



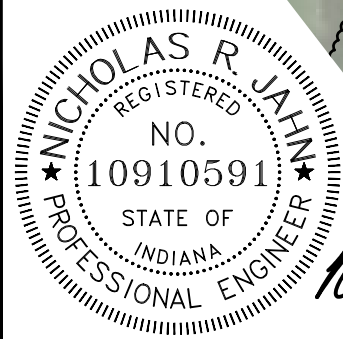
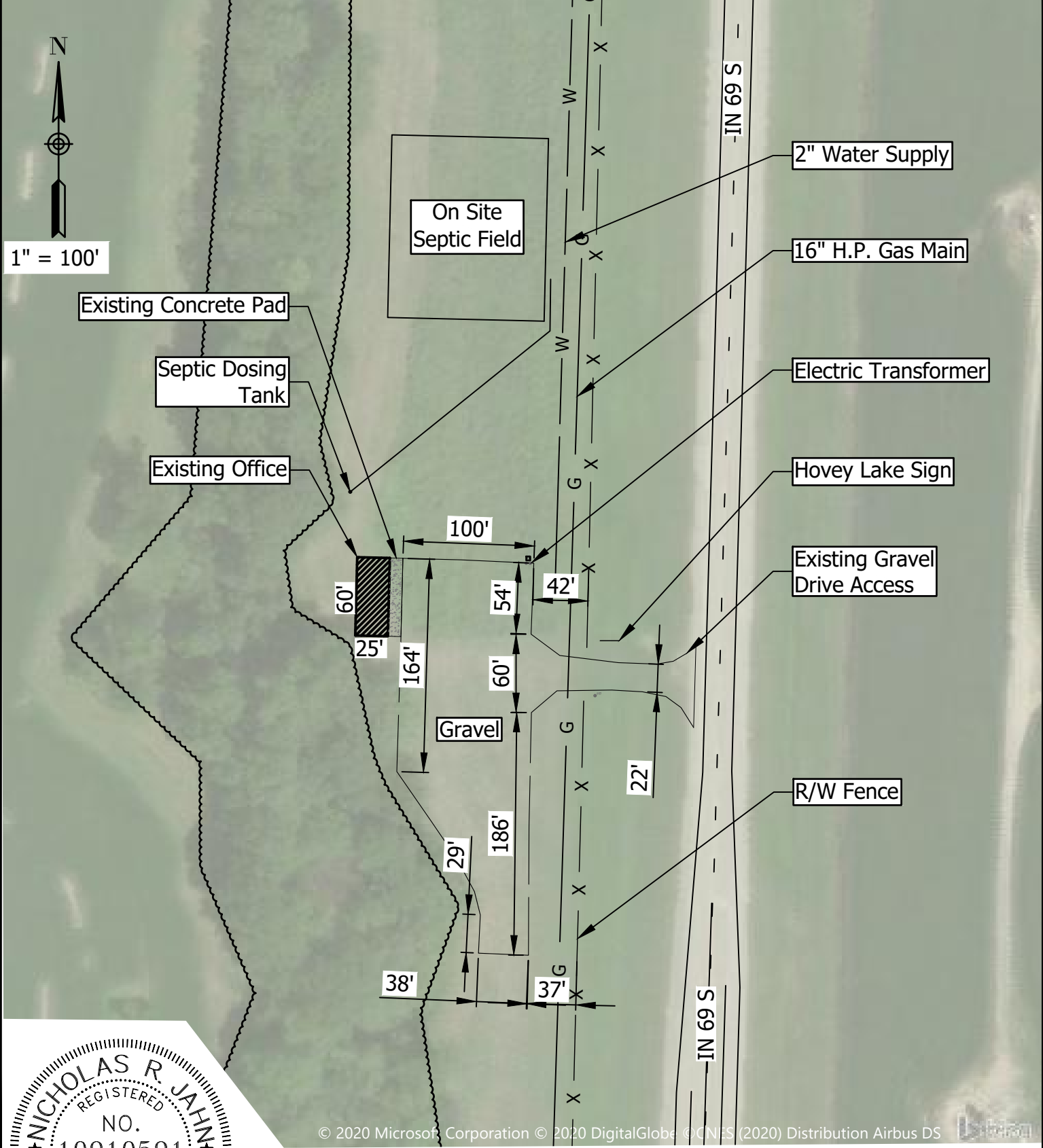
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Vicinity Map  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

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PROJECT#:	20-4319
DRAWING:	3



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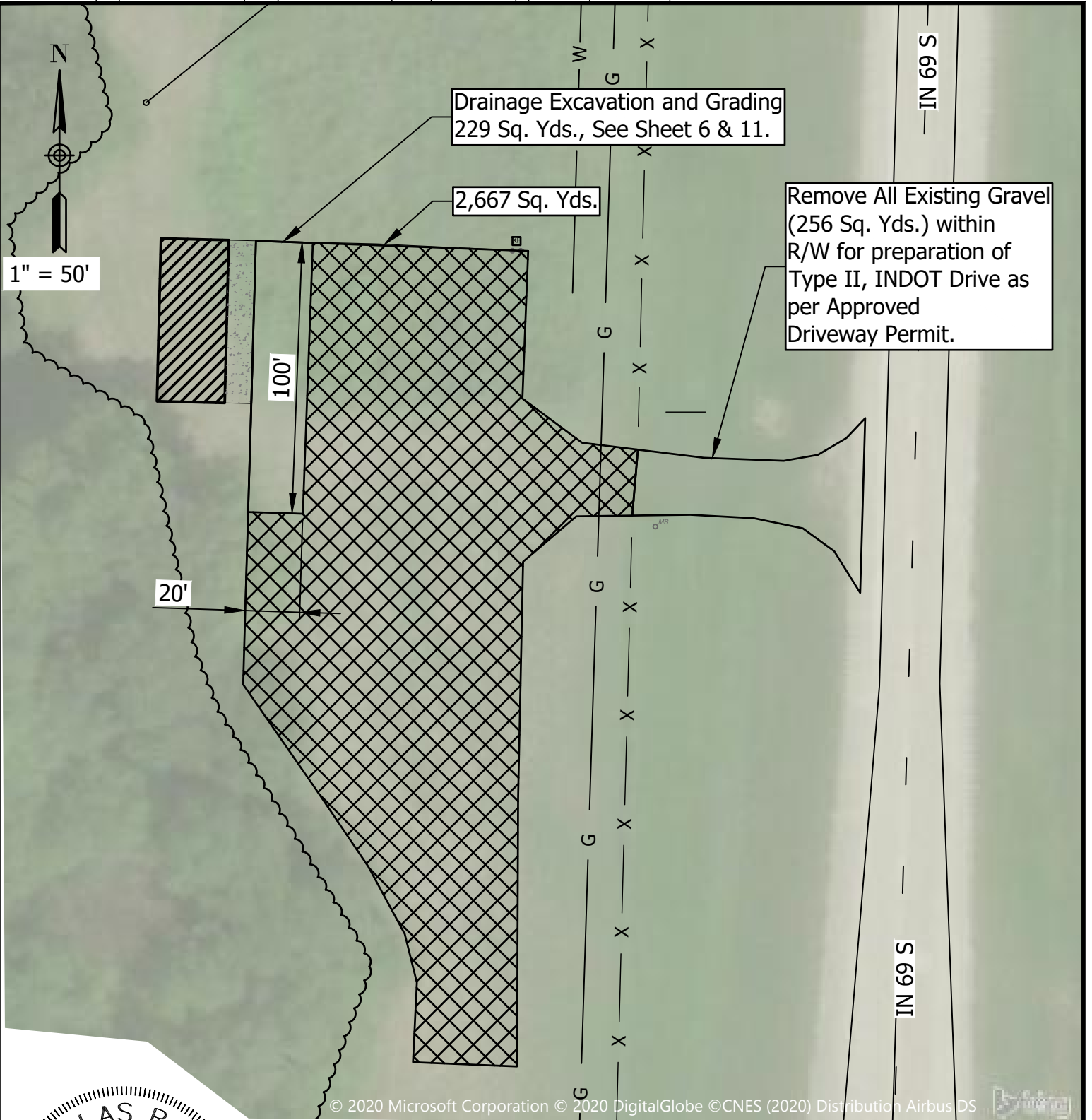
Existing Underground Utility Locations are based on Information Provided by the Owner.

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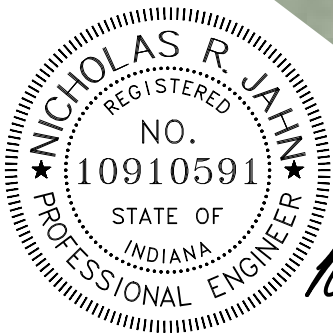
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Existing Site  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

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 PROJECT#: 20-4319  
 DRAWING: 4



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- Gravel Scraping Area
- Gravel Removal Area

**Demolition Notes:**

1. Existing Concrete Pads and Aprons to Remain.
2. Gravel Surface to be Potholed for Total Rock Depth, Scraped a Nominal 1/2" Depth, and Patched Where Necessary Prior to Any HMA Surface Placement. Coordinate with Site Manager for Waste Disposal Area.



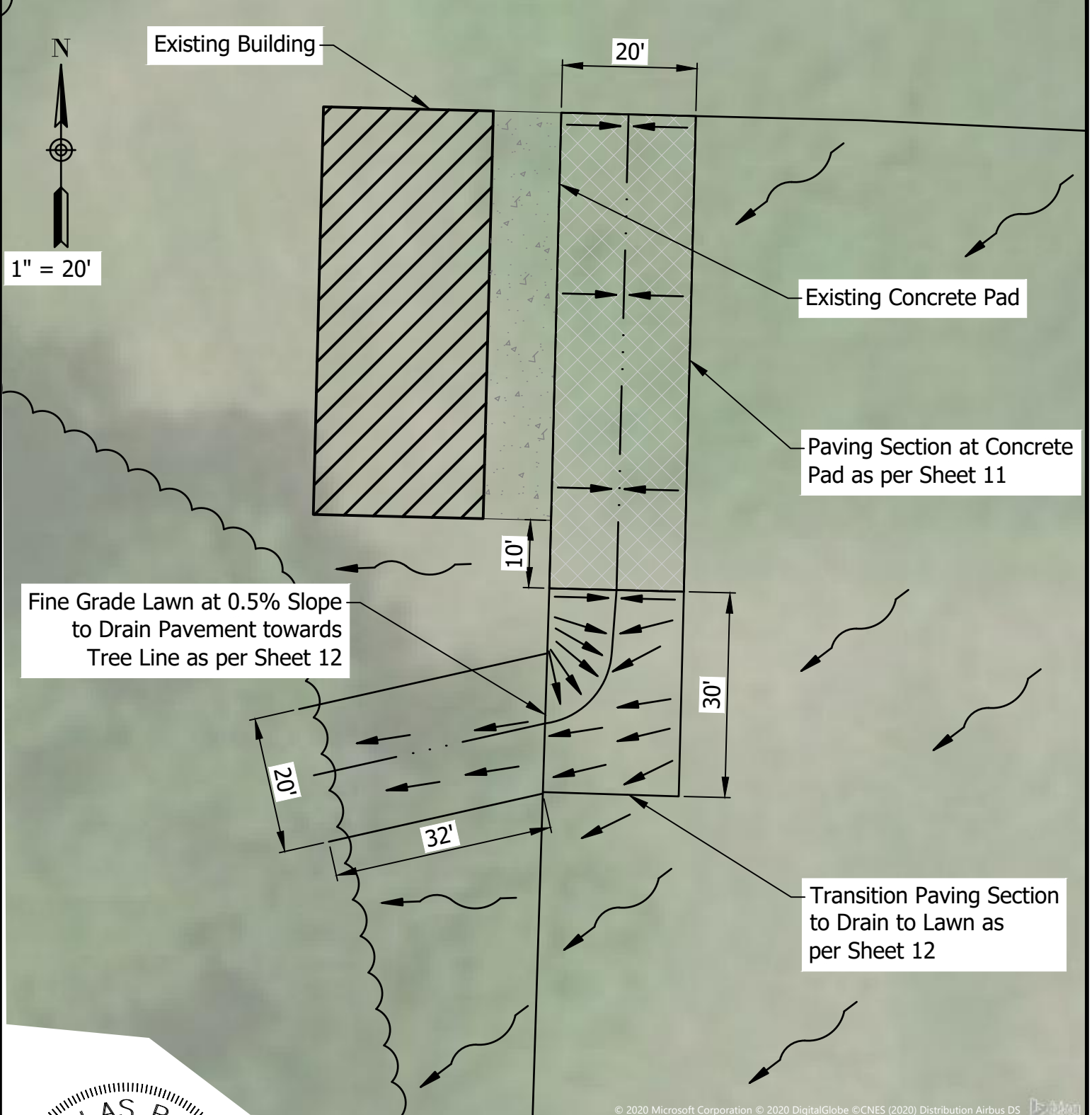
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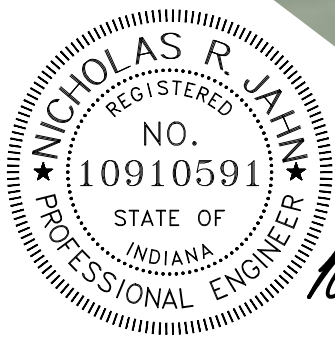
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Demolition Plan  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

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PROJECT#:	20-4319
DRAWING:	5



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- Grading Notes:
- Existing Drainage Pattern, Overland Flow Direction.
  - Proposed Finish Grading Surface Direction.

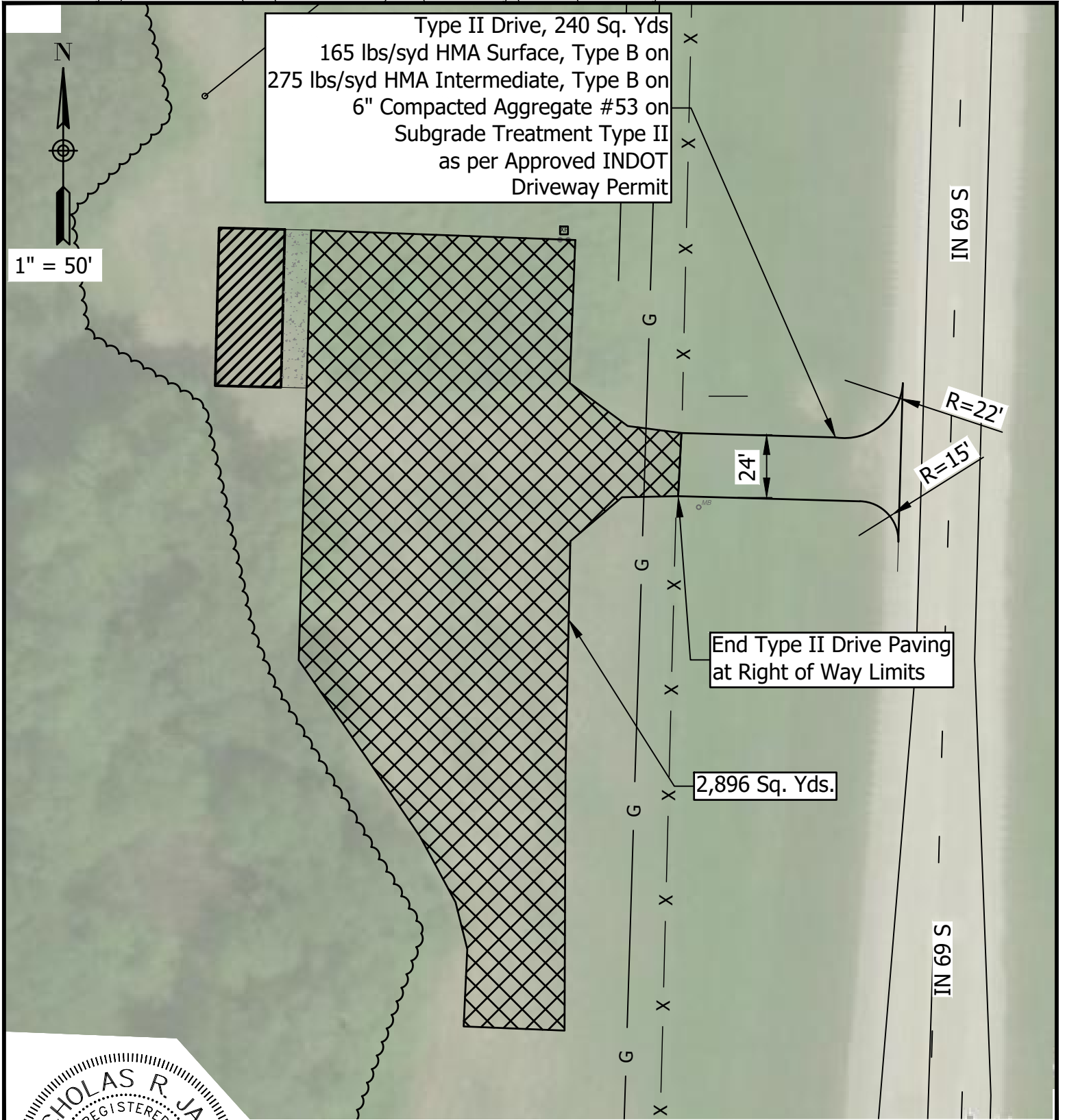
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Phone: (317) 293-3542

Fine Grading & Drainage Plan  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT#: 20-4319  
DRAWING: 6



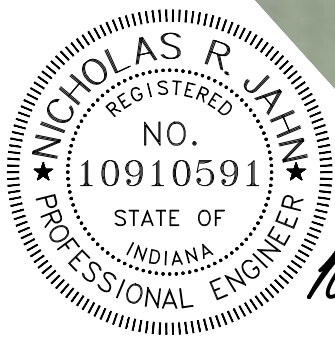


Type II Drive, 240 Sq. Yds  
 165 lbs/syd HMA Surface, Type B on  
 275 lbs/syd HMA Intermediate, Type B on  
 6" Compacted Aggregate #53 on  
 Subgrade Treatment Type II  
 as per Approved INDOT  
 Driveway Permit

1" = 50'

End Type II Drive Paving  
 at Right of Way Limits

2,896 Sq. Yds.



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 HMA Resurfacing Paving

General Notes:

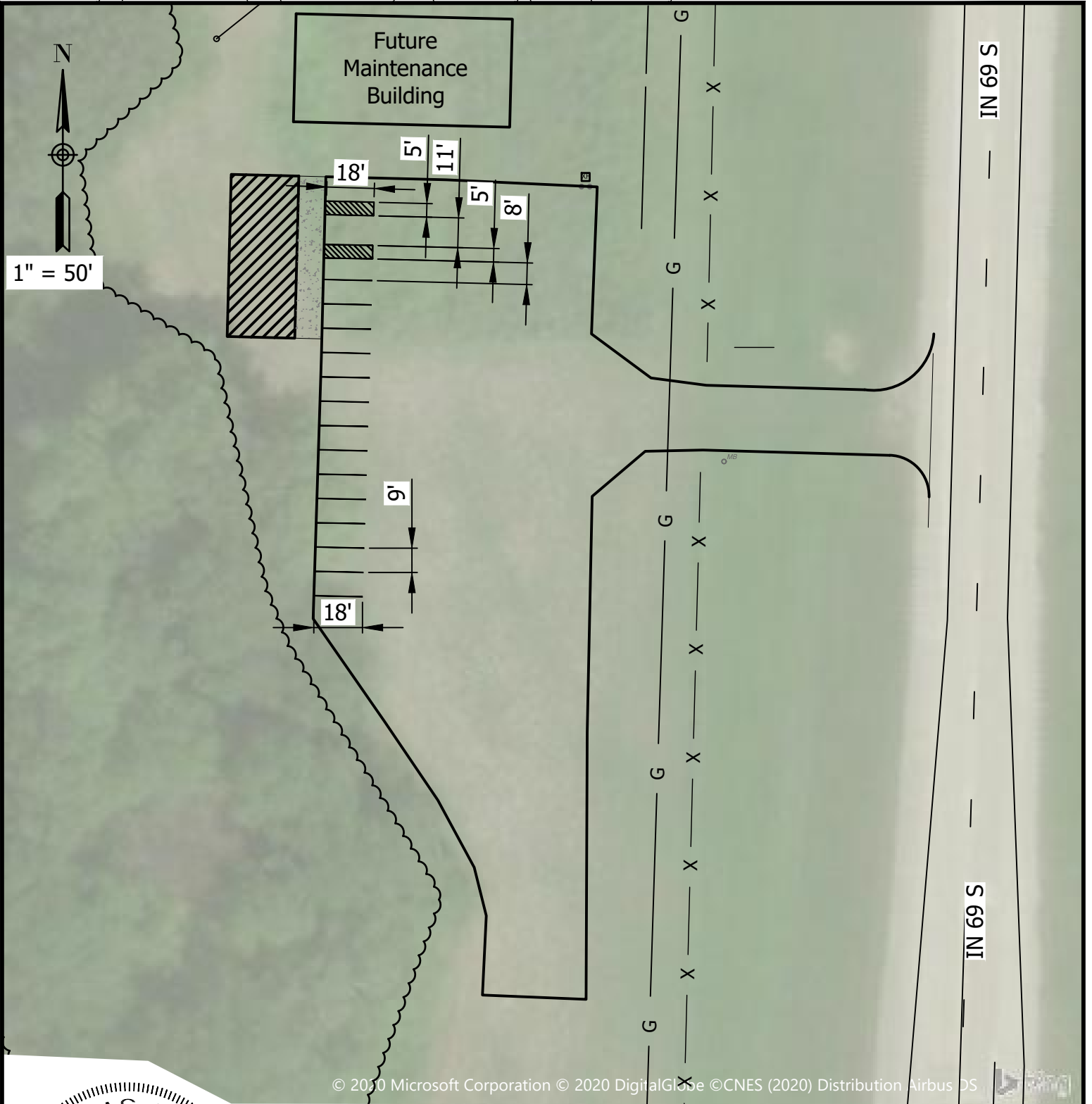
1. Existing Concrete Aprons and Pads to Remain.
2. Match Existing Grades and Drainage Patterns.
3. Provide Perimeter Grading where Necessary to Prevent Water Ponding on Pavement

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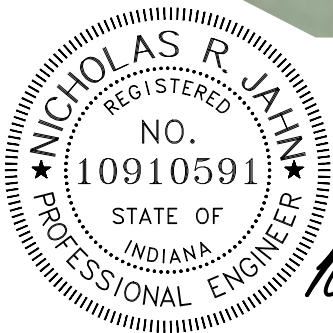
4275 North High School Rd  
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 Phone: (317) 293-3542

Paving and Patching  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

SCALE: As Noted  
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 DRAWN BY: JKS  
 PROJECT#: 20-4319  
 DRAWING: 7



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General Notes:

1. See Sheet 11 for ADA Stall Striping and Signage Requirements.
2. Nominal Parking is 9' Wide by 18' Deep at 90°.



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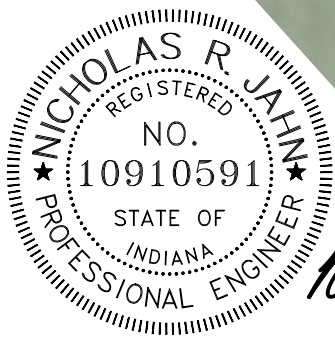
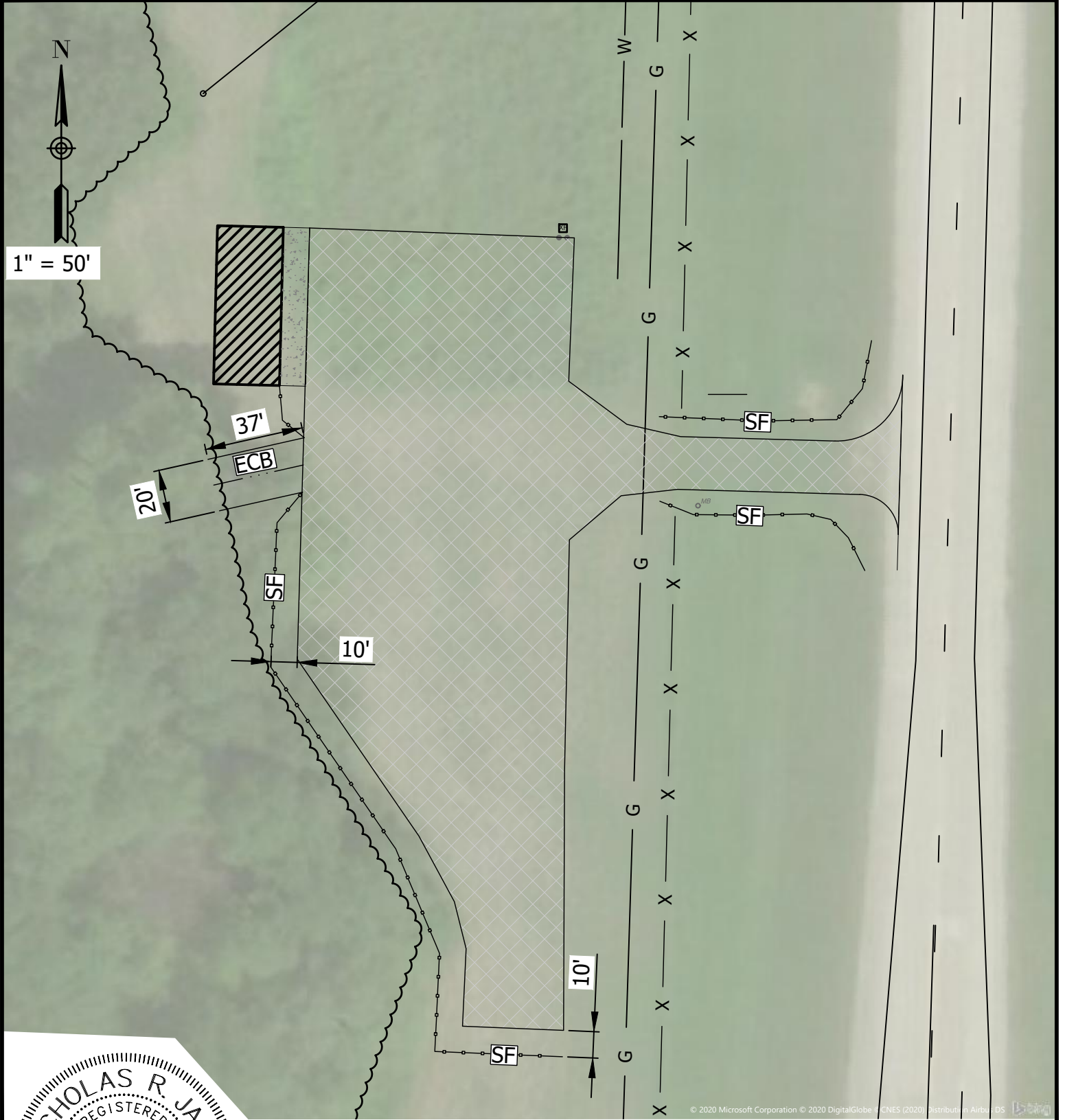
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Pavement Striping and Signage  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

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PROJECT#:	20-4319
DRAWING:	8





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**General Notes:**

1. Silt Fence (SF) to be Installed Clear of Perimeter Grading.
2. Seed Mix shall be Applied prior to Erosion Control Blanket (ECB) Placement.

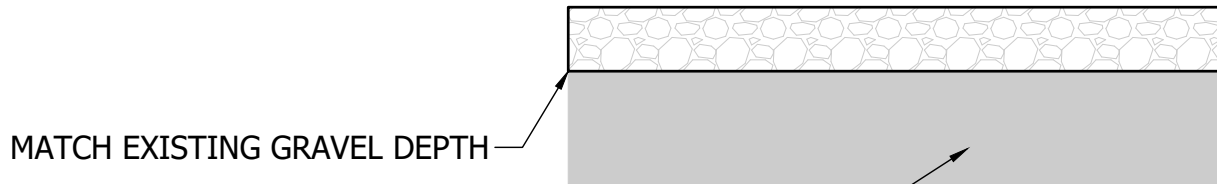


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Erosion Control  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

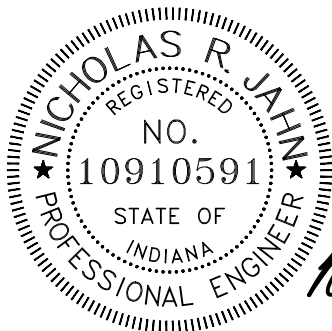
SCALE:	As Noted
DATE:	2020.05.12
DRAWN BY:	JKS
PROJECT#:	20-4319
DRAWING:	9



TYPE II SUBGRADE TREATMENT  
 (6" OF THE SUBGRADE EXCAVATED AND REPLACED  
 WITH COARSE AGGREGATE NO. 53)

## GRAVEL PATCH & REPAIR

NTS



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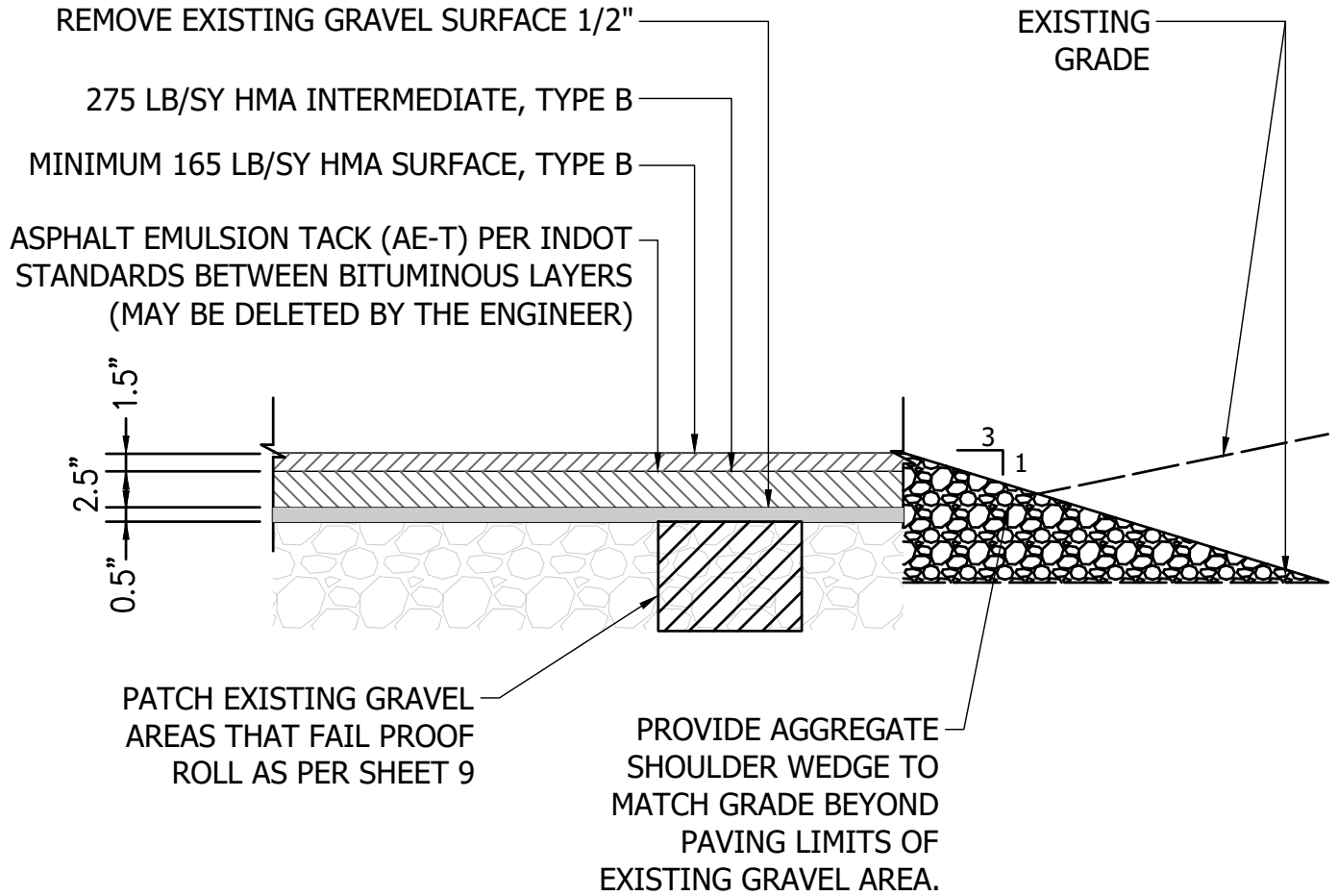
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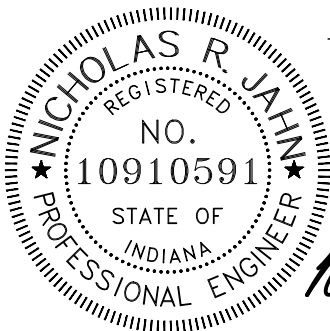
DETAIL SHEET  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

SCALE:	As Noted
DATE:	2020.05.12
DRAWN BY:	JKS
PROJECT#:	20-4319
DRAWING:	10



## HMA SURFACING OF EXISTING AGGREGATE

NTS



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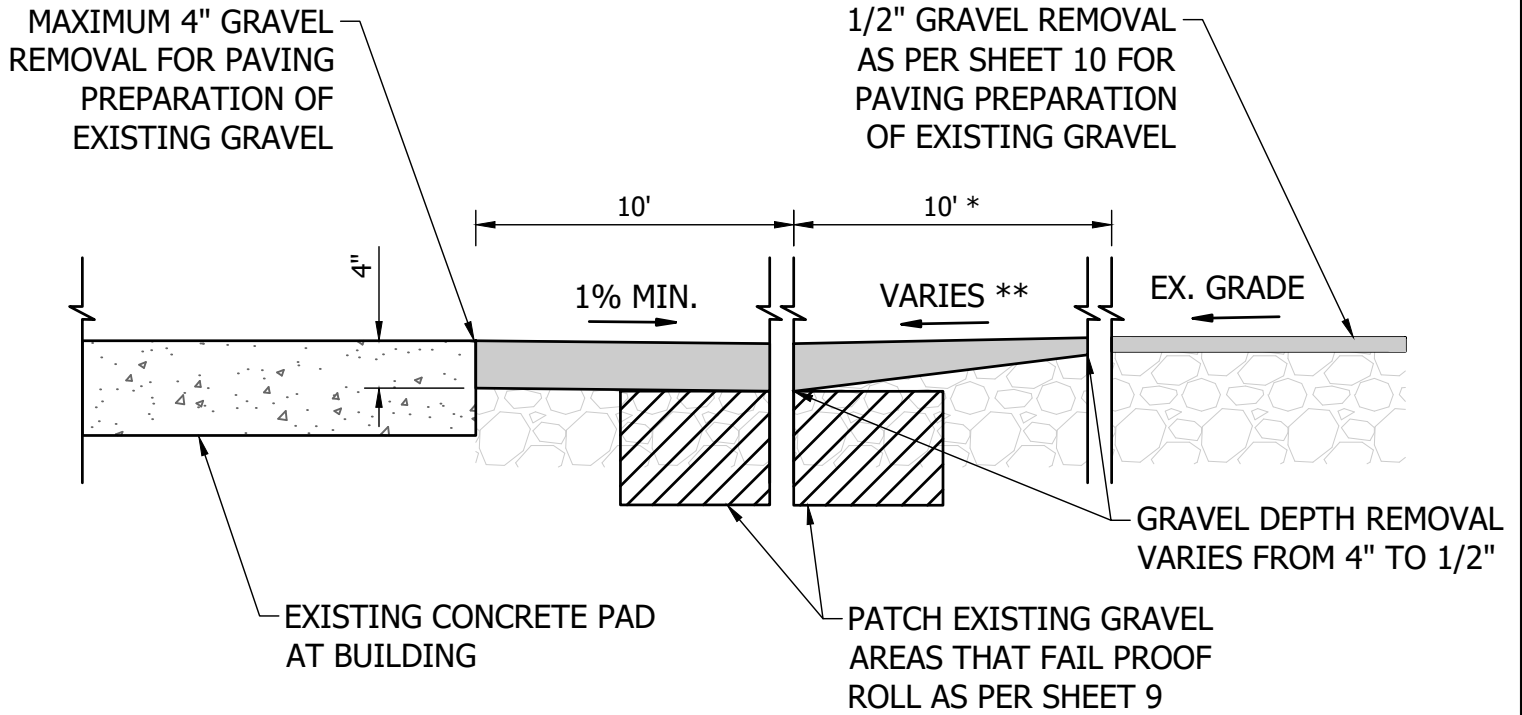
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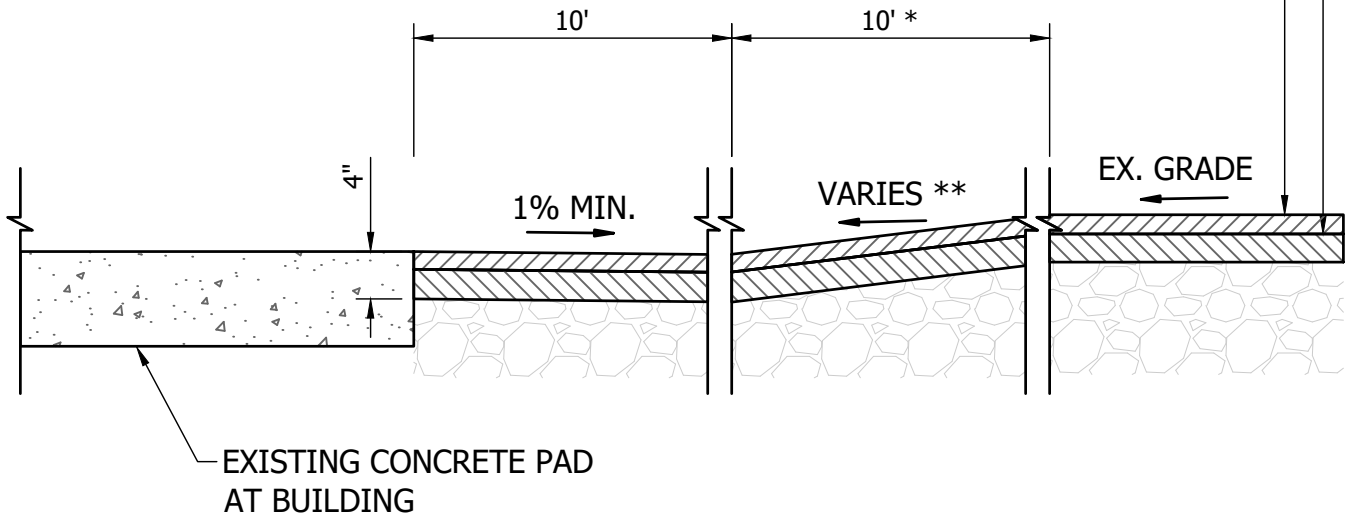
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DETAIL SHEET  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT#: 20-4319  
DRAWING: 11



275 LB/SY HMA INTERMEDIATE, TYPE B  
 MINIMUM 165 LB/SY HMA SURFACE, TYPE B



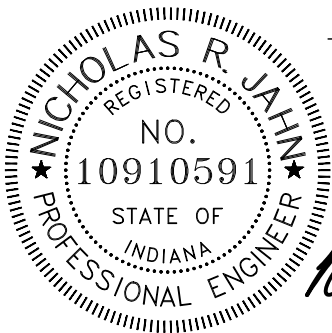
## PARKING PAD GRAVEL REMOVAL AND PAVING

NTS

MAINTAIN EXCAVATION AND PAVING SECTION 10 FEET SOUTH OF CONCRETE PAD AND BUILDING.

\* WIDTH MAY VARY TO ACHIEVE SLOPES AT ADA PARKING STALL AREAS.

\*\* MAXIMUM SLOPE OF 2% IS TO BE USED AT ADA PARKING STALLS, AND 5' BEYOND.



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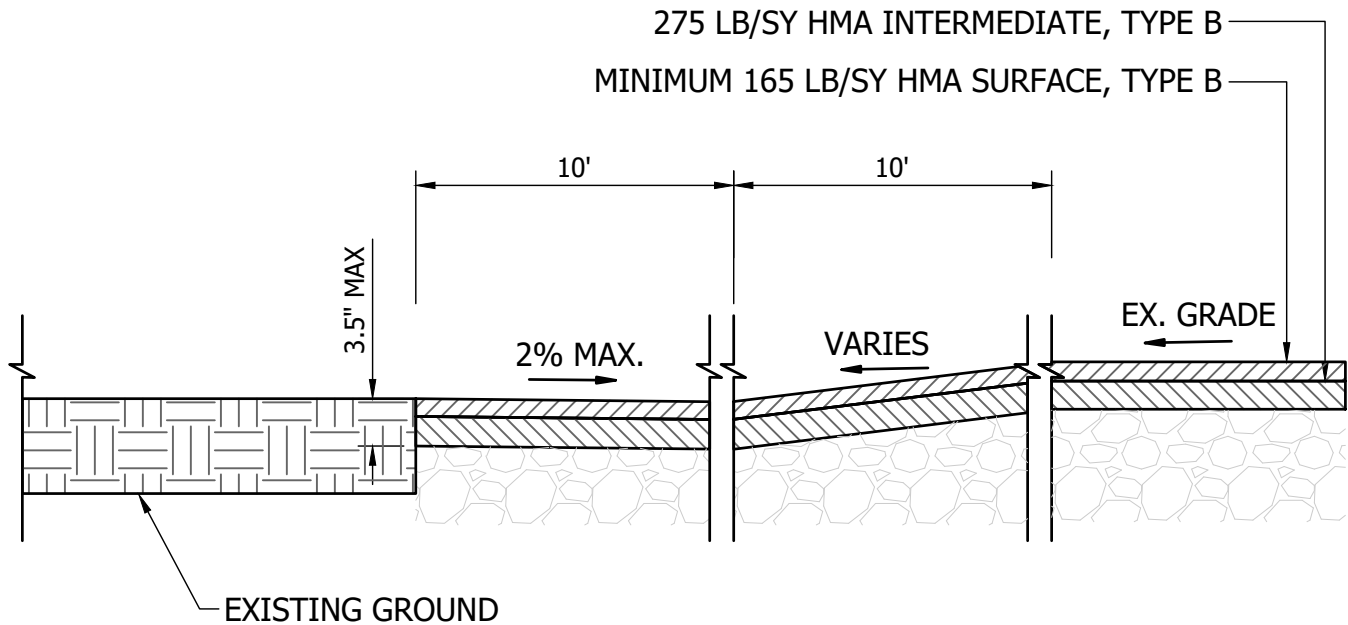
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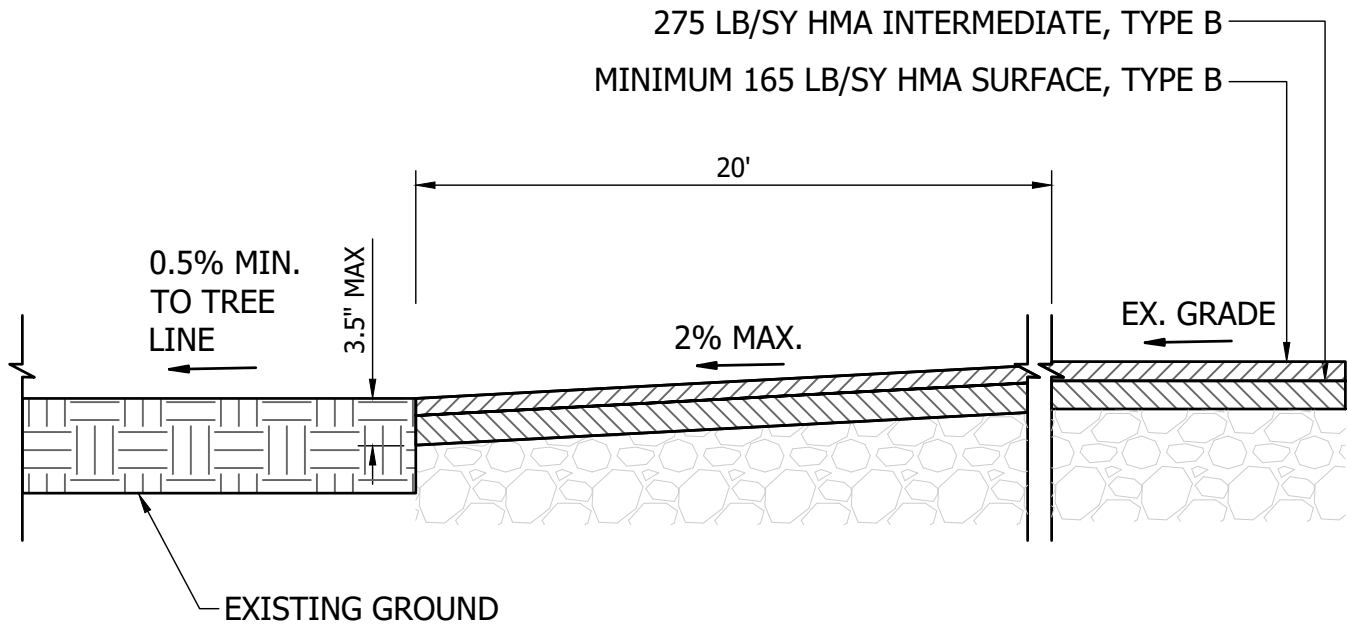
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DETAIL SHEET  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

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 PROJECT#: 20-4319  
 DRAWING: 12



TRANSITION PAVING SECTION 10' SOUTH OF BUILDING

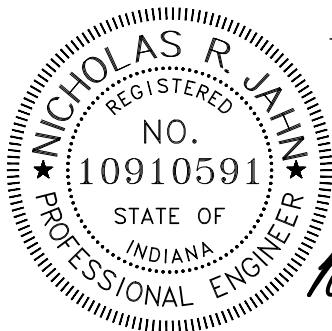


TRANSITION PAVING SECTION 40' SOUTH OF BUILDING

TRANSITION PAVING SECTION TO LAWN AREA

NTS

PROVIDE A MINIMUM OF 0.5" CLEARANCE FROM TOP OF PAVEMENT TO EXISTING GRADE WHERE POSSIBLE.



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DETAIL SHEET  
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Hovey Lake FWA  
Office & Visitor Center Improvement Project

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PROJECT#: 20-4319  
DRAWING: 13



R7-8  
12"X18"



12"X6"

MOUNT BENEATH R7-8a FOR VAN ACCESSIBLE SPACES

NOTE:

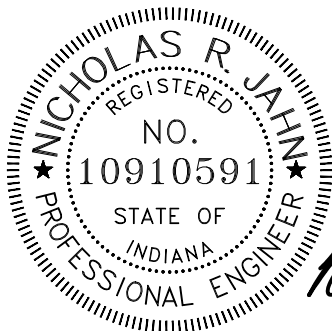
1. REFLECTIVE BLUE BACKGROUND WHITE LETTERING AND SYMBOL LETTERING MINIMUM 1" HEIGHT.
2. SIGN TO BE MOUNTED ON 2" METAL POST.
3. ONE SIGN PER ACCESSIBLE SPACE.
4. VAN ACCESSIBLE SIGN TO BE MOUNTED BELOW STANDARD ACCESSIBLE SIGN WHERE SPECIFIED ON PLANS. COLORING TO MATCH.
5. SEE DETAIL SHEET 12 FOR ADA SIGN MOUNTING

### ADA PARKING SIGN (TYP.)

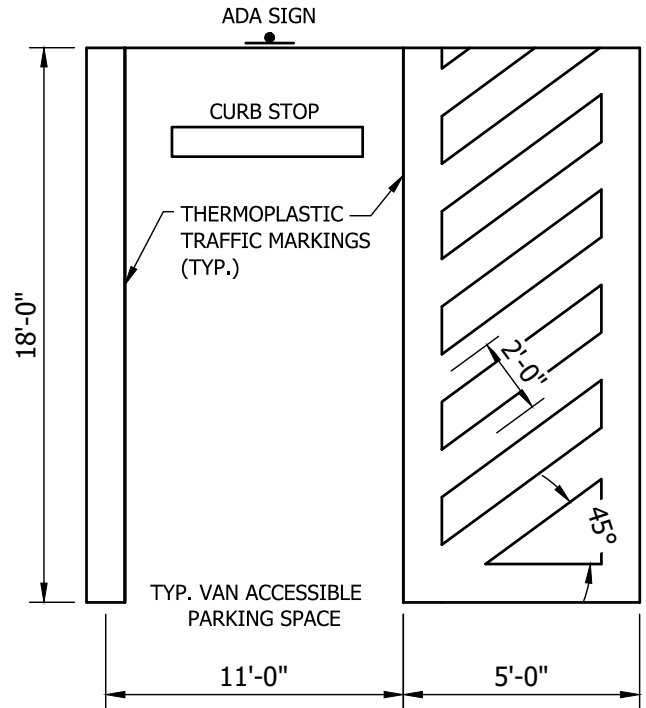
NTS

GENERAL NOTES:

1. PAVEMENT MARKINGS ARE TYPICAL 4" WIDTH FOR STRIPING AND ADA SYMBOL.
2. TRAFFIC MARKING APPLICATIONS SHALL BE THERMOPLASTIC.
3. ADA STRIPING SHALL BE BLUE AS PER IAC 5-16-9. ALL OTHER ON-SITE STRIPING SHALL BE WHITE.
4. PASSENGER VEHICLES MAY SHARE THE VAN LOADING ACCESS AISLE WHEN ADJACENT TO EACH OTHER.
5. SLOPES WITHIN THE PARKING STALL, ACCESS AISLE, AND PATH OF TRAVEL SHALL NOT EXCEED 2.0% SLOPES. RAMPS SHALL NOT EXCEED 12:1 SLOPES WITH A MAXIMUM DISTANCE OF 6'-0".



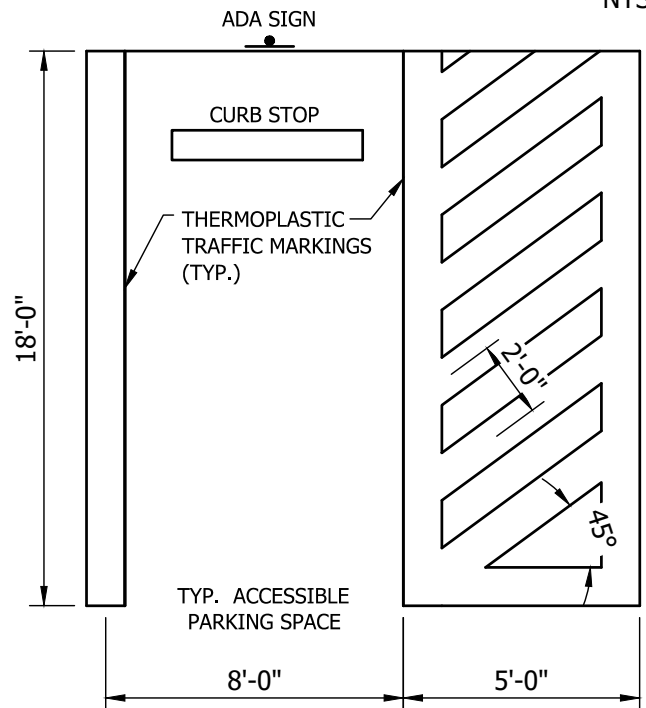
*Nicholas R. Jahn*



CURB STOPS 2.5' OFF OF EDGE OF PAVEMENT (TYP.)

### ADA PARKING STALL (VAN)

NTS



CURB STOPS 2.5' OFF OF EDGE OF PAVEMENT (TYP.)

### ADA PARKING STALL (CAR)

NTS



### VS ENGINEERING, INC.

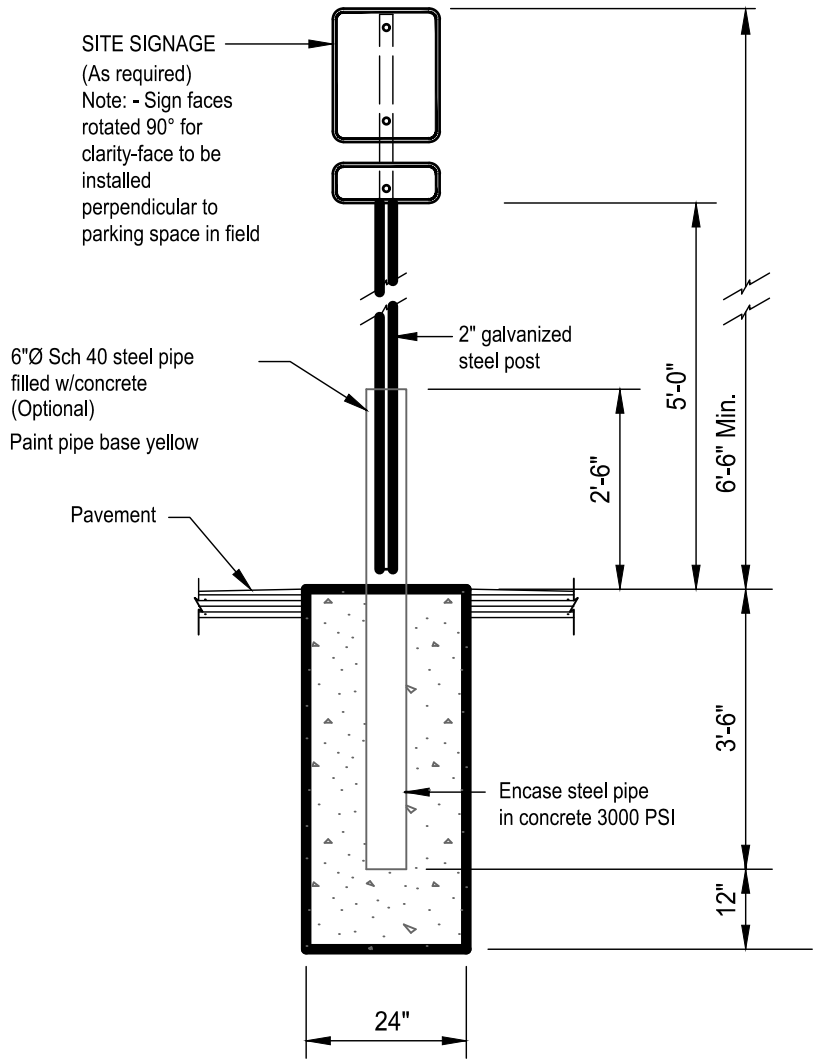
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DETAIL SHEET  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

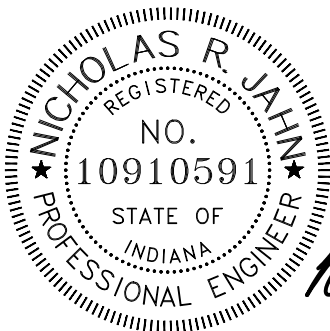
SCALE: As Noted  
DATE: 2020.05.12  
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DRAWING: 14





### SIGN POST MOUNTING (TYP.)

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DETAIL SHEET  
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Hovey Lake FWA  
Office & Visitor Center Improvement Project

SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT#: 20-4319  
DRAWING: 15

INDEX	
SHEET NO.	SUBJECT
1	Drawing Index and General Notes
2	Class I Drive (Residential) Plan
3	Class II Drive (Residential) Plan
4	Class III Drive (Commercial) Plan
5	Class IV Drive (Commercial) Plan
6	Class V Drive (Field Entrance) Plan and Section
7	Class VI Drive (Industrial) Plan and Section
8	Class VII Drive (Industrial) Plan
9	Class I and Class III Drives Approach Grades
10	Class II and Class IV Drives Sections
11	Class II, IV & V Drives Approach Grades
12	Class VI Drive Approach Grades
13	Class VII Drive Approach Grades
14	Joint Placement, Corner Reinforcing, Monolithic Curb, and Concrete Curb and Gutter Details
15	Private Drive Crossover Plans
16	Private and Commercial Drive Crossover Sections
17	Commercial Drive Crossover Plans
18	Pavement Wedge and Pay Limits for Class II, IV and VII Drives

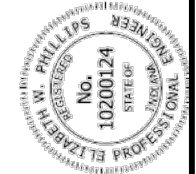
**GENERAL NOTES**

- When the maximum approach grade of  $\pm 10\%$  does not meet the grade of the existing drive before the R/W line, the approach grade of  $\pm 10\%$  shall extend beyond the R/W to the point of intersection with the existing driveway grade. Construction beyond the R/W line shall be done in temporary R/W.
- The appropriate pipe end treatment should be provided for pipes located either inside the clear zone or outside the clear zone.
- The minimum driveway pavement sections for Class III, IV, VI and VII Drives have been designed for 400 trucks per day. If the truck traffic count is greater than 400 per day, the required pavement section shall be as shown elsewhere on the plans.
- For Class III, IV, VI and VII Drives, if length of the driveway is more than 15 feet, then D-1 contraction joints are required in transverse direction. Spacing shall be 1/2 the length of the driveway or 15 feet max.
- Embankment slopes within the mainline clear zone for new construction/reconstruction projects or within the obstruction-free zone for 3R projects should be as shown in the table on Standard Drawing E 610-PRAP-01. Outside the clear zone or the obstruction-free zone, the embankment slopes should desirably be 4:1 but not steeper than 3:1.

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX  
GENERAL NOTES AND LEGEND  
SEPTEMBER 2019

STANDARD DRAWING NO. E 610-DRIV-01



5/1/2019 DATE  
DESIGN STANDARDS ENGINEER  
6/5/2019 DATE  
CHIEF ENGINEER



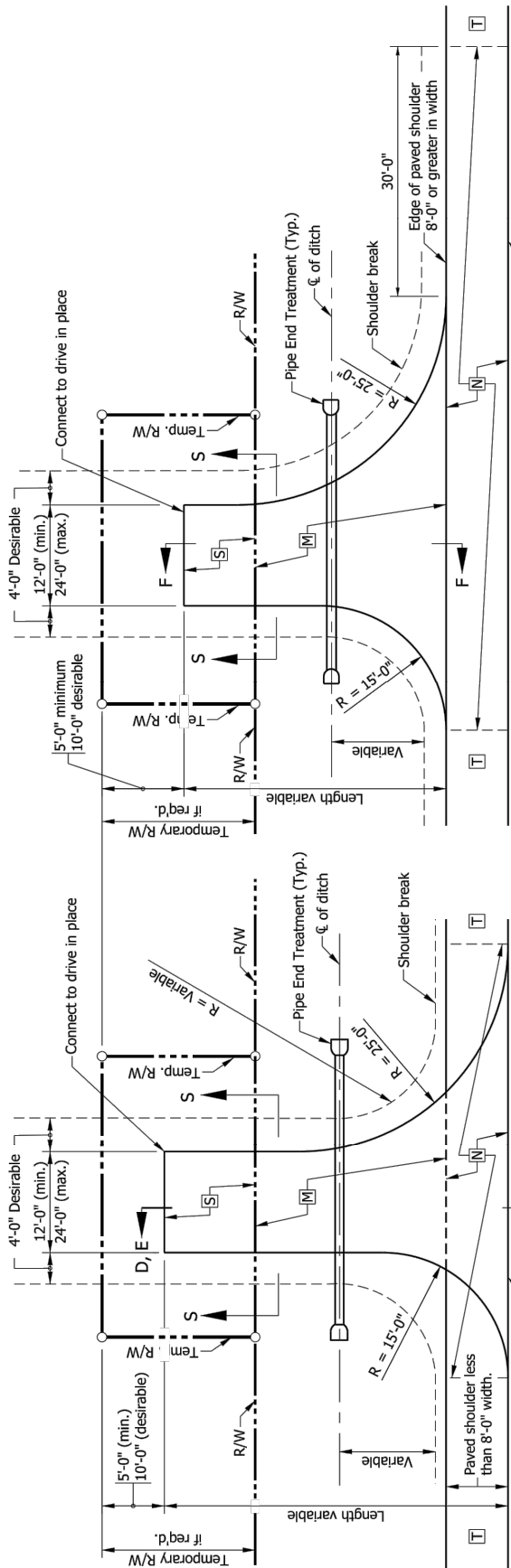
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Indianapolis, Indiana 46254  
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Phone: (317) 293-3542

INDOT Type II Driveway Details  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT #: 20-4319  
DRAWING: 16



PLAN VIEW

(PAVED SHOULDER LESS THAN 8'-0" IN WIDTH OR UNPAVED SHOULDER)

PLAN VIEW

(PAVED SHOULDER 8'-0" OR GREATER IN WIDTH)

**NOTES:**

1. See Standard Drawing E 610-DRIV-10 for Section S-S.
2. See Standard Drawing E 610-DRIV-11 for Sections D-D, E-E and F-F for approach grades.
3. The radii for PCCP Class II drives shall be constructed using corner reinforcement as detailed in Standard Drawing E 610-DRIV-14.
4. For PCCP Drives see Standard Drawing E 610-DRIV-14 for joint placement details.

**LEGEND**

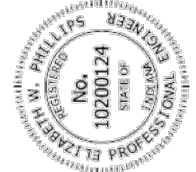
- [M] HMA for Approaches, Type B  
165#/syd HMA Surface Type B on  
275#/syd HMA Intermediate Type B on  
6" Compacted Aggregate No. 53, on  
Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)  
or  
PCCP for Approaches, 6 in., on  
Dense Graded Subbase, 6 in., on  
Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- [N] The greater thickness of either the drive [M]  
or the paved shoulder [T] section.
- [S] For type and thickness equivalent  
to surface in place, see plans.
- [T] Plan shoulder section.

INDIANA DEPARTMENT OF TRANSPORTATION

CLASS II DRIVE  
(RESIDENTIAL)

SEPTEMBER 2019

STANDARD DRAWING NO. E 610-DRIV-03



DESIGN STANDARDS ENGINEER  
DATE 5/1/2019

CHIEF ENGINEER  
DATE 6/5/2019



**VS ENGINEERING, INC.**

203 Main Street  
Evansville, Indiana 47708  
Phone: (812) 401-3030  
www.vsengineering.com

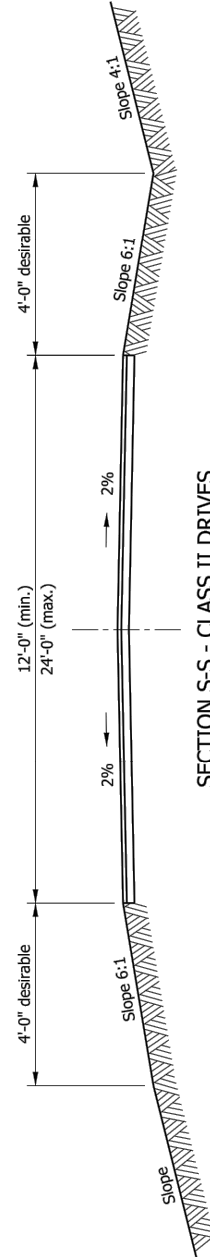
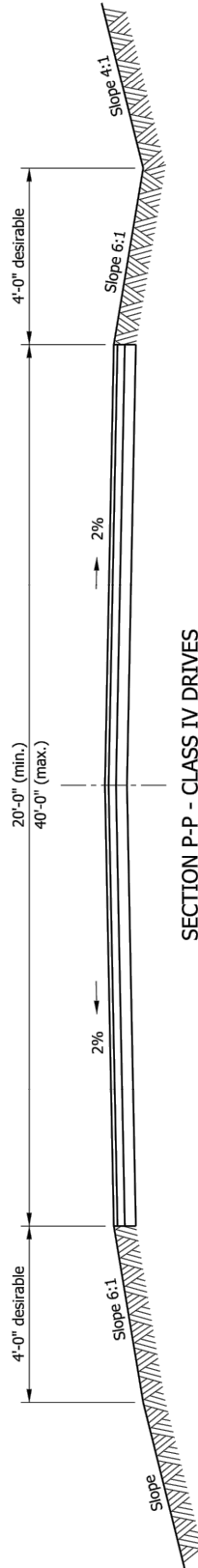
4275 North High School Rd  
Indianapolis, Indiana 46254  
Fax: (317) 293-4737  
Phone: (317) 293-3542

INDOT Type II Driveway Details  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT #: 20-4319  
DRAWING: 17

**NOTES:**

1. See Standard Drawing E 610-DRIV-03 for Class II Drive details.
2. See Standard Drawing E 610-DRIV-05 for Class IV Drive details.

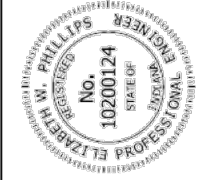


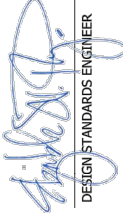
INDIANA DEPARTMENT OF TRANSPORTATION

CLASS II AND CLASS IV DRIVE SECTIONS

SEPTEMBER 2019

STANDARD DRAWING NO. E 610-DRIV-10



  
 DESIGN STANDARDS ENGINEER  
 DATE 5/1/2019  
 CHIEF ENGINEER  
 DATE 6/5/2019



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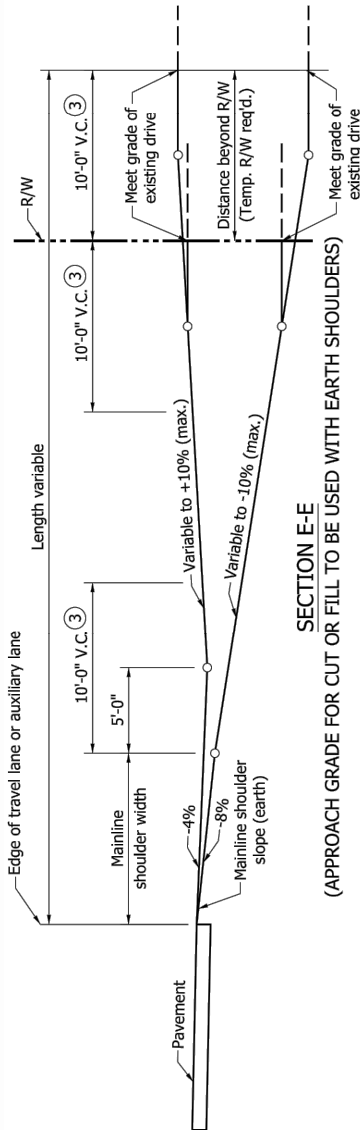
4275 North High School Rd  
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INDOT Type II Driveway Details  
 Indiana Dept. of Natural Resources  
 Hovey Lake FWA  
 Office & Visitor Center Improvement Project

SCALE: As Noted  
 DATE: 2020.05.12  
 DRAWN BY: JKS  
 PROJECT#: 20-4319  
 DRAWING: 18

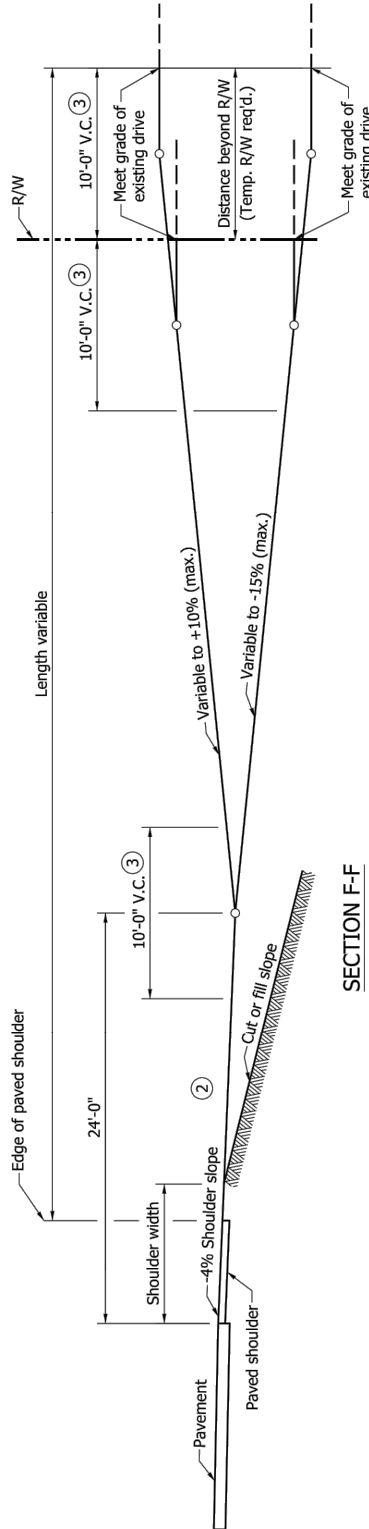
**NOTES:**

1. See Standard Drawing E 610-DRIV-03, -05 and -06 for location of Sections D-D, E-E and F-F.
2. Where physical restrictions limits the space available for the construction of a drive from a roadway in an embankment section, the downgrade breakpoint of the drive may begin at the edge of the shoulder without a crest vertical curve. The algebraic difference in grades shall not exceed 11%.
3. The maximum algebraic difference shall not exceed 11% for crested grade and 1.4% for sagged grades.



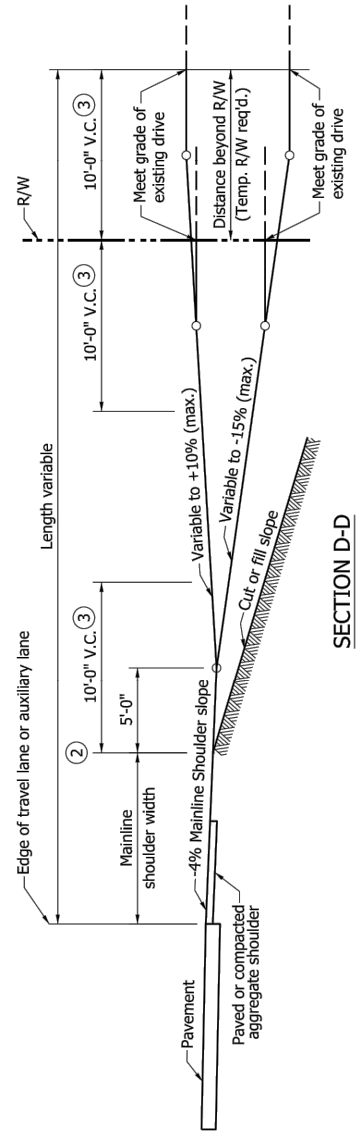
**SECTION E-E**

(APPROACH GRADE FOR CUT OR FILL TO BE USED WITH EARTH SHOULDERS)



**SECTION F-F**

(APPROACH GRADE FOR CUT OR FILL TO BE USED WITH PAVED SHOULDER 8'-0" OR WIDER)



**SECTION D-D**

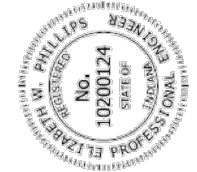
(APPROACH GRADE FOR CUT OR FILL TO BE USED WITH LESS THAN 8'-0" WIDTH PAVED OR COMPACTED AGGREGATE SHOULDERS)

INDIANA DEPARTMENT OF TRANSPORTATION

CLASS II, IV & V DRIVES  
APPROACH GRADES

SEPTEMBER 2019

STANDARD DRAWING NO. E 610-DRIV-11



DESIGN STANDARDS ENGINEER  
5/1/2019  
DATE

CHIEF ENGINEER  
6/5/2019  
DATE



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INDOT Type II Driveway Details  
Indiana Dept. of Natural Resources  
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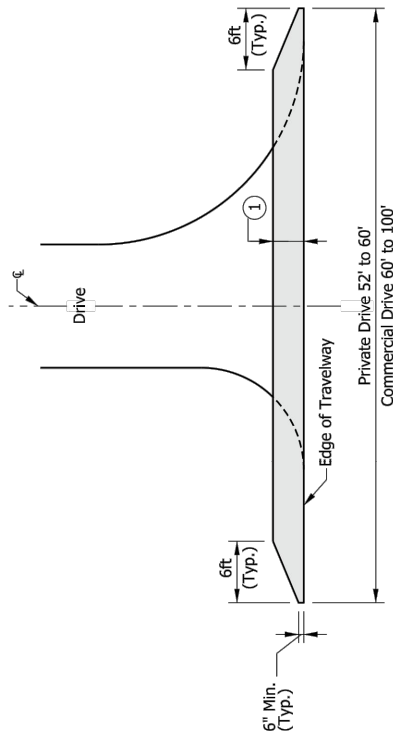
SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT #: 20-4319  
DRAWING: 19

**NOTES:**

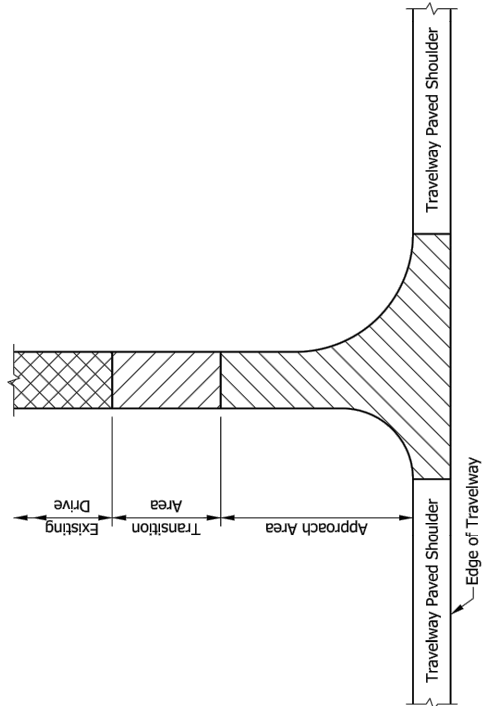
1. 3 ft or wider as necessary to feather to existing grade.
2. Pavement wedge to be centered on centerline of drive.
3. The pay limits shown herein generally apply to Class II, IV, and VI Drives.
4. Approach Area - HMA for Approaches or PCCP for Approaches. This area typically extends from the edge of an 8 foot or wider paved travelway shoulder to the right of way or property line or within a few feet of the right of way or property line where the new drive meets the grade of the existing drive, depending on the site-specific conditions. Where the travelway paved shoulder width is less than 8 feet, this area will be measured from the edge of travelway.
5. Transition Area - an equivalent pavement section to the existing drive. This area typically extends from the right of way or property line to a point on the property owner's drive where the new drive grade can match the existing drive grade.

**LEGEND**



 Drive area to be treated with HMA for Approaches

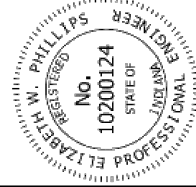


**PAVEMENT WEDGE PLAN VIEW**



**PAY LIMITS FOR CLASS II, IV, AND VI DRIVES**

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT WEDGE AND PAY LIMITS FOR CLASS II, IV, AND VI DRIVES	
SEPTEMBER 2019	
STANDARD DRAWING NO. E 610-DRIV-18	
	5/29/2019 DATE
DESIGN STANDARDS ENGINEER	
	6/5/2019 DATE
CHIEF ENGINEER	



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INDOT Type II Driveway Details  
Indiana Dept. of Natural Resources  
Hovey Lake FWA  
Office & Visitor Center Improvement Project

SCALE: As Noted  
DATE: 2020.05.12  
DRAWN BY: JKS  
PROJECT#: 20-4319  
DRAWING: 20