Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
October 12, 2020

Closing Date:
November 10, 2020

PUBLIC NOTICE

IDEM ID Number:
IWIP 2020-782-38-WRH-A

Corps of Engineers ID Number:
LRL-2020-728-LCL

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **State Isolated Wetland Individual Permit** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for permits required under IC 13-18-22 and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2 and all applicable provisions of IC 13-18-22.

1. Applicant: Aimee Toole
AEP Indiana Michigan Transmission Company, Inc.
8600 Smith's Mill Road
New Albany, Ohio 43054

2. Agent: Jennifer Walker
AEP Indiana Michigan Transmission Company, Inc.
8600 Smith's Mill Road
New Albany, Ohio 43054

3. Project location: Section 9, Township 22 North, Range 12 East, Jay County. The project is located south of W CR 400 S at approximately 40.37852 latitude, -85.19159 longitude.

4. Affected waterbody: Four Class 2 Isolated Wetlands

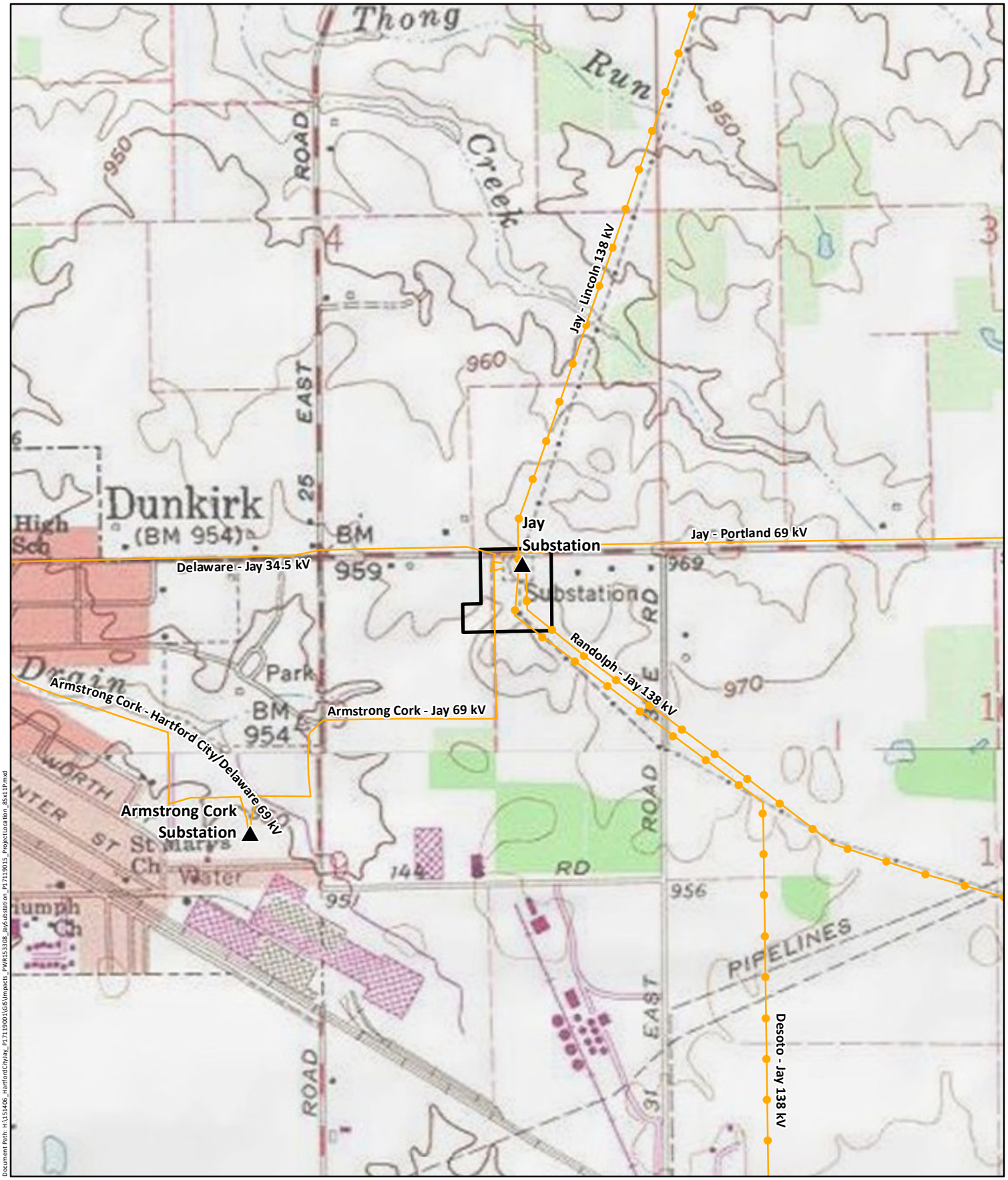
5. Project Description: The project involves filling four class 2 isolated wetlands with clean stone (one emergent wetland totaling 0.44 acre, one scrub shrub wetland totaling 0.07 acre, and two forested wetlands totaling 0.17 acre) for a total of 0.68 acre of wetland fill. The purpose of the project is to expand Jay Substation to accommodate an additional 69 kV transmission line tie-in. As compensatory mitigation, the applicant intends to purchase 1.445 acres of wetland mitigation credit from the Indiana Stream and Wetland Mitigation Program. For more information on the project and its plan details visit https://www.in.gov/idem/6397.htm

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the state isolated wetland permit review.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Wes Hauser, Project Manager, by phone at 317-233-4606 or by e-mail at WHauser@idem.IN.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251 FAX: 317/232-8406



Existing Substation

Existing Transmission Line (69 kV or lower)

Existing Transmission Line (138 kV - 161 kV)

Jay Substation Expansion Area

1 " = 1,000 feet

0 500

Feet

N W E S

State of Indiana
Jay County
Richland Township

NAD 1983 StatePlane Indiana East FIPS 1301 Feet
Projection: Transverse Mercator
Datum: North American 1983

Date: 8/14/2020

OVERVIEW

Author: DHB

Prj: 153308, P17119015, Hartford, Jay

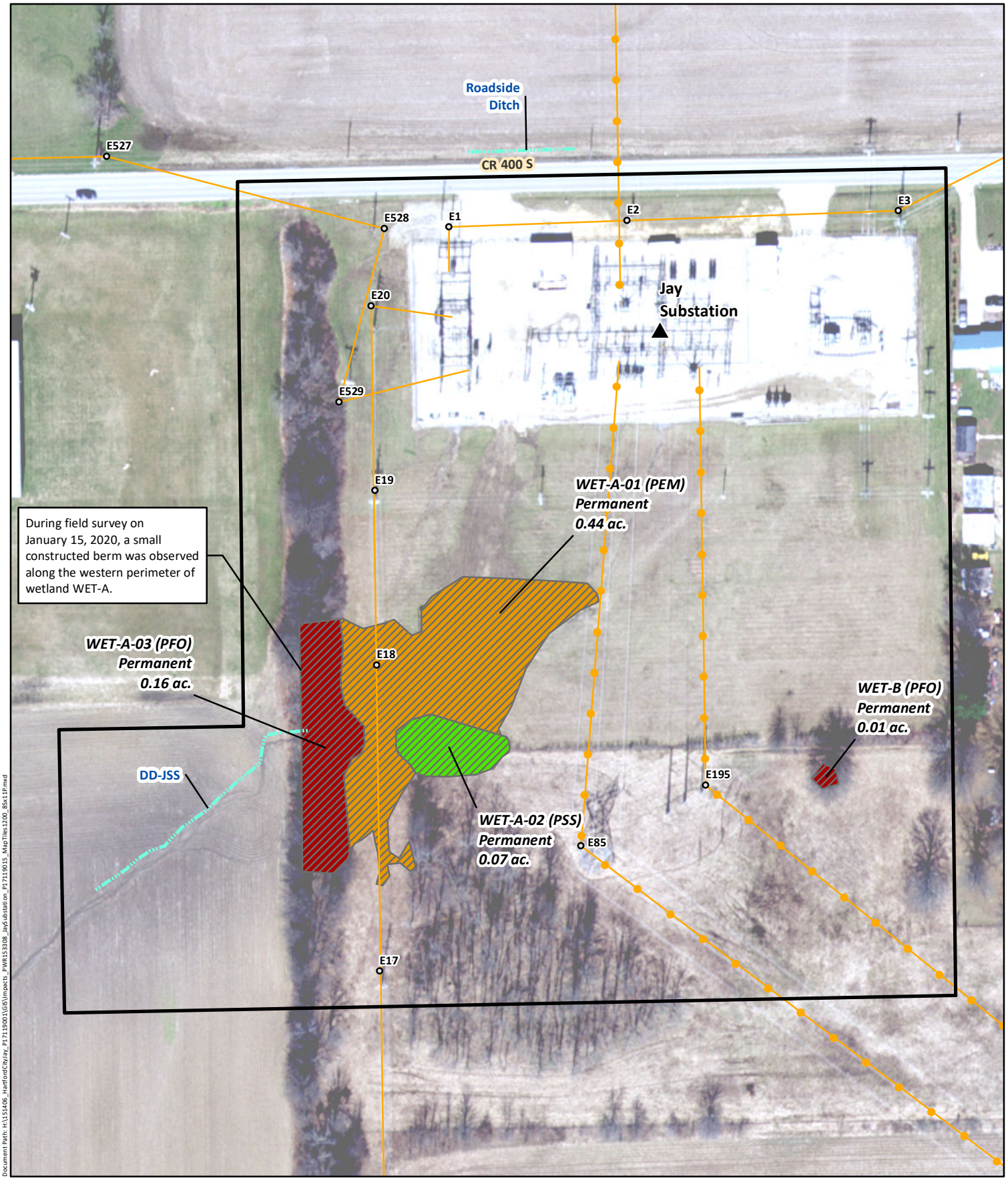
Jay Substation Expansion

Project Location

INDIANA MICHIGAN POWER
An AEP Company
BOUNDLESS ENERGY

POWER ENGINEERS

Document Path: H:\153406_HartfordCityJay_P17119001\GIS\Impacts_PWR153308_JaySubstation_P17119015_ProjectLocation_8x11P.mxd



Existing Substation
Existing Structure
Existing Transmission Line (69 kV or lower)
Existing Transmission Line (138 kV - 161 kV)
Jay Substation Expansion Area
Delineated Drainage Ditch
PEM Impacted Wetland
PFO Impacted Wetland
PSS Impacted Wetland

1 " = 100 feet
0 50
Feet

N W E S

State of Indiana
Jay County
Richland Township

NAD 1983 StatePlane Indiana East FIPS 1301 Feet
Projection: Transverse Mercator
Datum: North American 1983

Date: 8/14/2020
Author: DHB
Prj: 153308, P17119015, Hartford, Jay

Sheet 1 of 1

Jay Substation Expansion

Wetland Impact Locations

INDIANA MICHIGAN POWER
An AEP Company
BOUNDLESS ENERGY

POWER ENGINEERS

Document Path: H:\153406_HartfordCityJay_P17119001\GIS\Impacts_PWR153308_JaySubstation_P17119015_MapTiles1200_8Sx11P.mxd

DWG. NO. E-1211

RICHLAND TOWNSHIP, JAY COUNTY, INDIANA

INDIANA MICHIGAN POWER

JAY STATION

11199 WEST 400 SOUTH
DUNKIRK, INDIANA 47336
2020

HORIZONTAL DATUM: NAD83
INDIANA STATE PLANES, EAST ZONE, US SURVEY FOOT

VERTICAL DATUM: NAVD 88

0 200 300 400
1 inch = 200 ft.

OWNER
American Electric Power
8500 Smith's Mill Road
New Albany, OH 43054

Contact: Christopher Muteithia
Phone: (614) 933-2812
Email: cmmuteithia@aep.com

TCR: FRED BRADFORD
Phone: 765.206.1193

SURVEYOR
Wightman & Associates, Inc.
2303 Pipestone Rd
Benton Harbor, MI 49022

Contact: Brian Lieberg, PS
Phone: 269.201.4557
Email: blieberg@gowightman.com

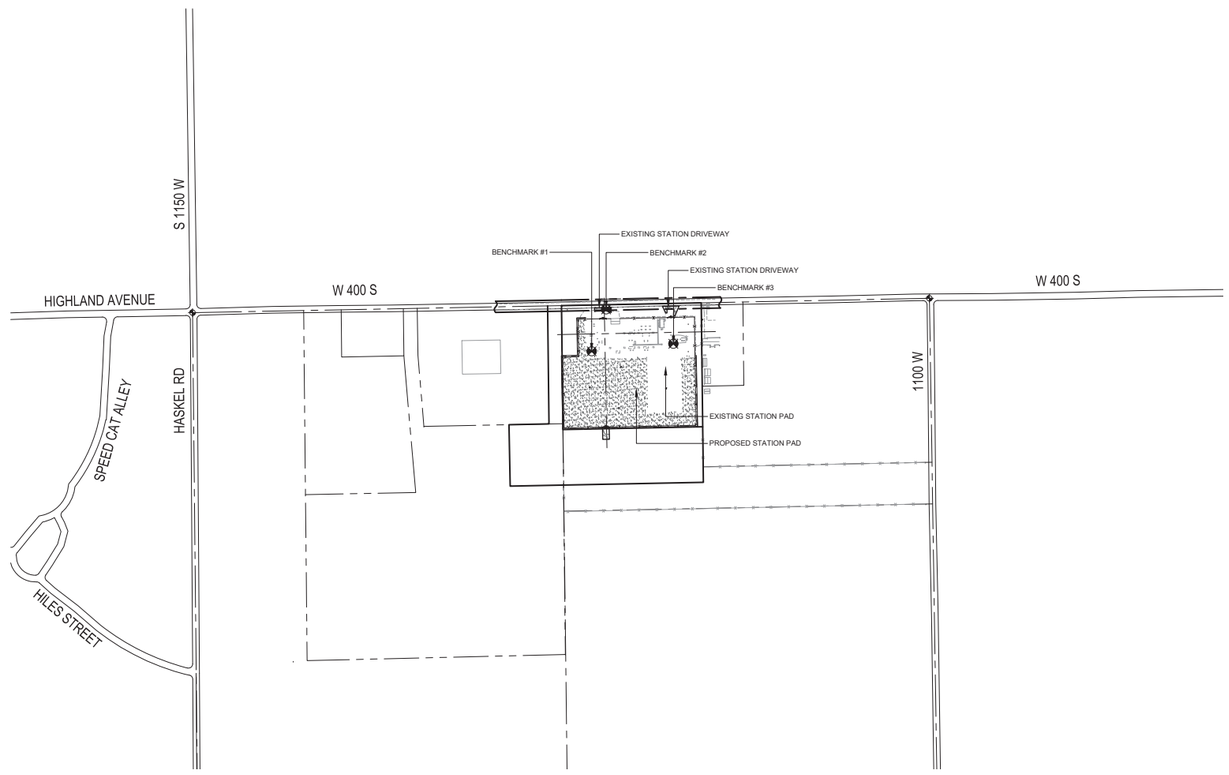
ENGINEER
Wightman & Associates, Inc.
2303 Pipestone Rd
Benton Harbor, MI 49022

Contact: Pete Siglow, PE
Phone: 269.487.9714
Email: psiglow@gowightman.com

SOIL BORINGS
Terracon
800 Morrison Road
Columbus, OH 43230
Phone: (614) 863-3113

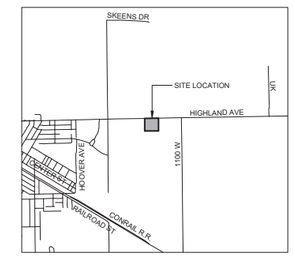
SITE DATA
Total Site Area.....8.93 Ac.
Disturbed Area.....4.33 Ac.
Existing Pad Size.....1.88 Ac.
Pad Addition.....2.38 Ac.
Total Pad Size.....1.88 Ac.

FLOOD ZONE
ENTIRE PARCEL LIES WITHIN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 18075C0114B.
EFFECTIVE DATE: MARCH 17, 2014



LATITUDE: 40.37905946
LONGITUDE: -85.19199636

WO# 42790639



LOCATION MAP
SCALE: NONE

BENCHMARKS

BENCHMARK #1
SOUTHEASTERLY BOLT ON LEG FLANGE
LATITUDE = N40° 22' 43.99"
LONGITUDE = W85° 11' 31.80"
NORTHING = 1869075.208
EASTING = 460278.732
ELEV. = 970.72 (NAVD88)

BENCHMARK #2
SMALL MAG ON SOUTHERLY END OF HEADWALL
LATITUDE = N40° 22' 45.48"
LONGITUDE = W85° 11' 31.12"
NORTHING = 1869226.086
EASTING = 460330.877
ELEV. = 971.54' (NAVD88)

BENCHMARK #3
SOUTHEASTERLY BOLT ON LEG FLANGE
LATITUDE = N40° 22' 44.24"
LONGITUDE = W85° 11' 28.00"
NORTHING = 1869102.156
EASTING = 460572.717
ELEV. = 970.70' (NAVD88)

LEGEND

- OHE = EXISTING ELECTRIC LINE (OVERHEAD)
- E = EXISTING ELECTRIC LINE (UNDERGROUND)
- = EXISTING FENCE
- = EXISTING GUARDRAIL
- = EXISTING MAJOR CONTOUR
- = EXISTING MINOR CONTOUR
- = EXISTING STORM SEWER
- T = EXISTING TELECOMMUNICATIONS
- G = EXISTING GAS MAIN
- = EXISTING WATER MAIN
- = EXISTING CENTER LINE
- = PROPERTY LINE/EASEMENT LINE
- = RIGHT-OF-WAY LINE
- = SECTION LINE
- = EXISTING TREE LINE
- = PROPOSED MAJOR CONTOUR
- = PROPOSED MINOR CONTOUR
- = PROPOSED FENCE
- = PROPOSED GUARDRAIL
- = PROPOSED STORM SEWER
- = PROPOSED GRAVEL EDGE
- = POWER POLE
- = GUY WIRE ANCHOR
- = BENCHMARK

ESTIMATED QUANTITIES

ITEM	QTY.
STATION STONE, 5" (BY OTHERS)	2,357 TON
PAD BASE AGGREGATE, 8" MDOT 22A OR INDOT #73	5,173 TON
DRIVEWAY TOP, 4" MDOT 21AA OR INDOT #53	69 TON
DRIVEWAY BOTTOM, 5" MDOT 4AA OR INDOT #2	86 TON
REINFORCED CONCRETE PIPE, C76 III, 12"	104 FEET
REINFORCED CONCRETE PIPE, C76 IV, 18"	48 FEET
PRECAST CONCRETE FLARED END SECTION, 12"	4 EACH
PRECAST CONCRETE FLARED END SECTION, 18"	2 EACH
STATION FENCE (BY OTHERS)	1,628 FEET
STATION FENCE, 24' GATE	3 EACH
SILT SOCK,12"	1,722 FEET
NATIVE SEEDING AREA	9,475 SYD
MULCH BLANKET	7,817 SYD
TEMPORARY DRIVEWAY AGGREGATE (INDOT #2)	80 TON
TEMPORARY CONSTRUCTION ENTRANCE	1 EACH
CONCRETE WASHOUT	1 EACH
CLEARING AREA	22,330 SYD
FENCE REMOVAL	1,345 FEET
EARTHWORK	
EARTH CUT	3,706 CYD
EARTH FILL, 98% COMPACTION	6,513 CYD
FILL MATERIAL IMPORT (EXCLUDING TOPSOIL)	2,807 CYD
TOPSOIL STRIP (ASSUMED 11" DEPTH)	6,406 CYD
TOPSOIL SPREAD	1,503 CYD
EXCESS TOPSOIL	4,903 CYD
TOTAL DISTURBED AREA	4.33 ACRE

ESTIMATED QUANTITIES ARE PROVIDED FOR REFERENCE ONLY. CONTRACTORS SHALL PERFORM THEIR OWN QUANTITY ESTIMATES.

ASSUMPTIONS:
CUT / FILL FACTOR = 1
EX. TOPSOIL DEPTH = 11"
TOPSOIL SPREAD = 6"

EARTHWORK QUANTITIES DO NOT INCLUDE FOUNDATION SPOILS

SHEET INDEX

COVER SHEET	E-1211
SITE SURVEY	E-1203
SITE SURVEY	E-1204
GRADING PLAN	E-1212
SITE LAYOUT PLAN	E-1213
GRADING PLAN	E-1214
GRADING SECTION VIEWS	E-1215
EROSION & SEDIMENT CONTROL PLAN	E-1216
EROSION & SEDIMENT CONTROL DETAILS	E-1217

PETER J. SIGLOW REGISTERED No. PE10708377 STATE OF INDIANA PROFESSIONAL ENGINEER

WIGHTMAN
2303 Pipestone Road, Benton Harbor, MI 49022 — 269.927.0100
433 East Ransom Street, Kalamazoo, MI 49007 — 269.327.3532
1670 Lincoln Road, Allegan, MI 49010 — 269.673.8465
www.gowightman.com
WAI #180326

OLD DWG #: | STD DWG #:

"THIS DRAWING IS THE PROPERTY OF AMERICAN ELECTRIC POWER AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO ANY PERSON WITHOUT THE WRITTEN CONSENT OF AMERICAN ELECTRIC POWER, OR FOR ANY PURPOSE DETRIMENTAL TO THEIR INTEREST, AND IS TO BE RETURNED UPON REQUEST."

INDIANA MICHIGAN TRANSMISSION COMPANY
JAY STATION
DUNKIRK — INDIANA
138/69/34.5/12KV
COVER SHEET

SCALE: 1" = 200'	DR: NEB	ENG: TWC	CH: PMC
AMERICAN ELECTRIC POWER	WO#: 42790639	APPD: PJS	DATE: 1/15/2020
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1211	REV. 1	

NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#

P:\BENTONHARBOR\180326 AEP - JAY STATION\B) DRAWINGS\B50 AUTOCAD\180326-E1211.DWG

STATION ENGINEERING

PLOTTED BY NOAH BOYD ON 15-07-20 20 AT 12:00

AEP G (30 X 46)

CM 1 2 3 4 5 6 7 | 3/16 INCH 4 8 12 16 | TENTHS 10 20 30 | INCHES 1 2 3

DWG NO E-1203

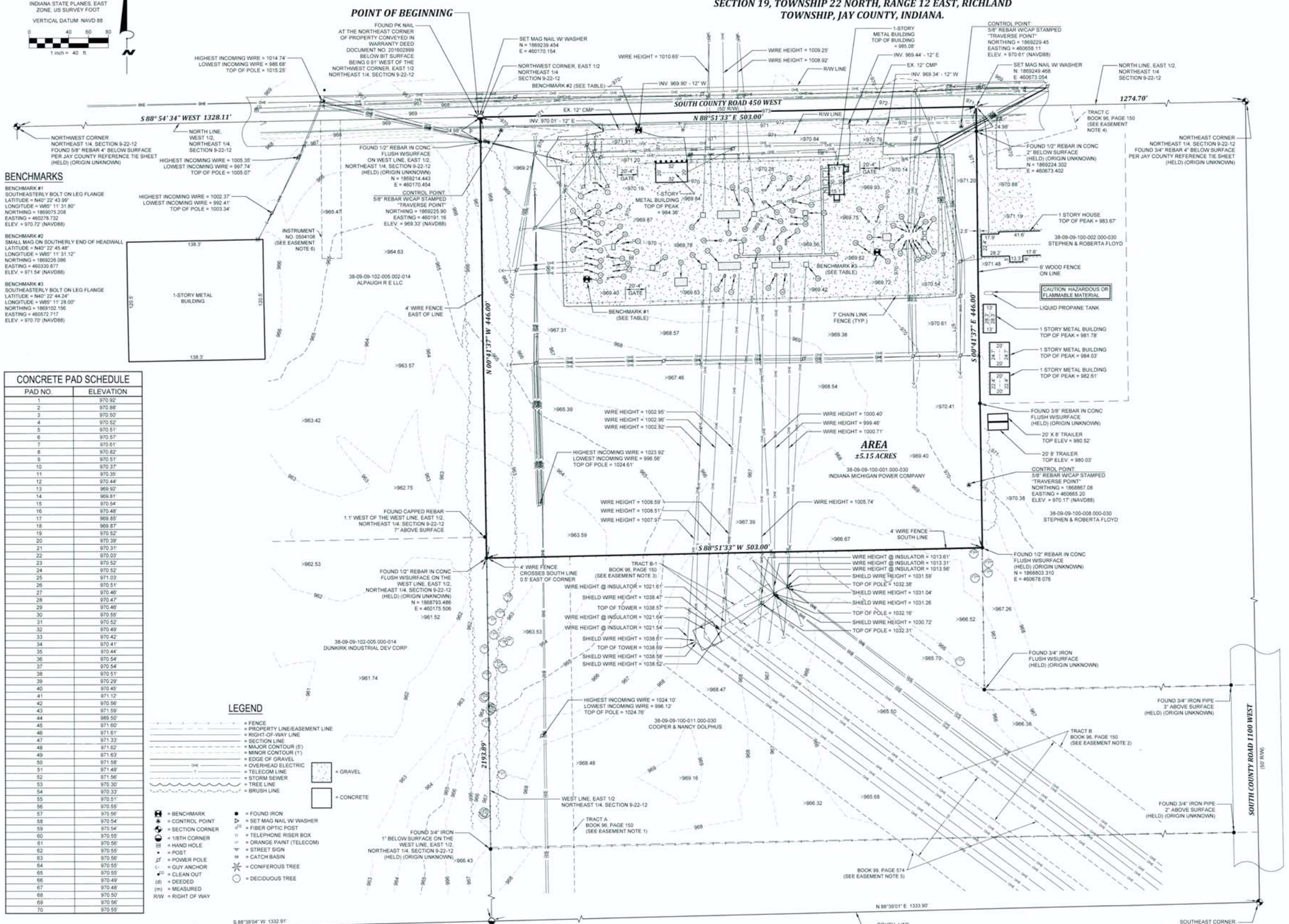
BOUNDARY AND TOPOGRAPHIC SURVEY

IN PART OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 22 NORTH, RANGE 12 EAST, RICHLAND TOWNSHIP, JAY COUNTY, INDIANA.

HORIZONTAL DATUM: NAD83
INDIANA STATE PLANES, EAST ZONE, US SURVEY FOOT

VERTICAL DATUM: NAVD 88

0 40 60 80
1 inch = 40 ft.



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CONCRETE PAD SCHEDULE

PAD NO.	ELEVATION
1	970.92'
2	970.88'
3	970.50'
4	970.52'
5	970.51'
6	970.57'
7	970.61'
8	970.82'
9	970.51'
10	970.37'
11	970.35'
12	970.44'
13	969.92'
14	969.91'
15	970.54'
16	970.48'
17	969.85'
18	969.87'
19	970.52'
20	970.39'
21	970.31'
22	970.03'
23	970.52'
24	970.52'
25	971.03'
26	970.51'
27	970.46'
28	970.47'
29	970.46'
30	970.55'
31	970.52'
32	970.49'
33	970.42'
34	970.41'
35	970.44'
36	970.54'
37	970.54'
38	970.51'
39	970.29'
40	970.45'
41	971.12'
42	970.56'
43	971.59'
44	989.50'
45	971.60'
46	971.61'
47	971.33'
48	971.62'
49	971.63'
50	971.58'
51	971.49'
52	971.56'
53	970.30'
54	970.33'
55	970.51'
56	970.56'
57	970.56'
58	970.54'
59	970.54'
60	970.55'
61	970.56'
62	970.55'
63	970.56'
64	970.55'
65	970.55'
66	970.49'
67	970.48'
68	970.50'
69	970.56'
70	970.55'

LEGEND

- = FENCE
- = PROPERTY LINE/EASEMENT LINE
- = RIGHT-OF-WAY LINE
- = SECTION LINE
- = MAJOR CONTOUR (5')
- = MINOR CONTOUR (1')
- = EDGE OF GRAVEL
- = OVERHEAD ELECTRIC
- = TELECOM LINE
- = STORM SEWER
- = TREE LINE
- = BRUSH LINE
- = GRAVEL
- = CONCRETE
- = BENCHMARK
- = CONTROL POINT
- = SECTION CORNER
- = 1/8TH CORNER
- = HAND HOLE
- = POST
- = POWER POLE
- = GUY ANCHOR
- = CLEAN OUT
- (d) = DEEDED
- (m) = MEASURED
- R/W = RIGHT OF WAY
- = FOUND IRON
- = SET MAG NAIL W/ WASHER
- = FIBER OPTIC POST
- = TELEPHONE RISER BOX
- = ORANGE PAINT (TELECOM)
- = STREET SIGN
- = CATCH BASIN
- = CONIFEROUS TREE
- = DECIDUOUS TREE

EASEMENT NOTES

NOTE 1 TRACT A OF AN EASEMENT CREATED IN WARRANTY DEED FROM INDIANA & MICHIGAN ELECTRIC COMPANY TO ROBERT BAUR AND JOANNE BAUR, HUSBAND AND WIFE AND/OR THEIR ASSIGNS DATED DECEMBER 14, 1955 AND RECORDED DECEMBER 20, 1955 IN BOOK 96, PAGE 150 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA.

NOTE 2 TRACT B OF AN EASEMENT CREATED IN WARRANTY DEED FROM INDIANA & MICHIGAN ELECTRIC COMPANY TO ROBERT BAUR AND JOANNE BAUR, HUSBAND AND WIFE AND/OR THEIR ASSIGNS DATED DECEMBER 14, 1955 AND RECORDED DECEMBER 20, 1955 IN BOOK 96, PAGE 150 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA.

NOTE 3 TRACT B-1 OF AN EASEMENT CREATED IN WARRANTY DEED FROM INDIANA & MICHIGAN ELECTRIC COMPANY TO ROBERT BAUR AND JOANNE BAUR, HUSBAND AND WIFE AND/OR THEIR ASSIGNS DATED DECEMBER 14, 1955 AND RECORDED DECEMBER 20, 1955 IN BOOK 96, PAGE 150 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA.

NOTE 4 TRACT C OF AN EASEMENT CREATED IN WARRANTY DEED FROM INDIANA & MICHIGAN ELECTRIC COMPANY TO ROBERT BAUR AND JOANNE BAUR, HUSBAND AND WIFE AND/OR THEIR ASSIGNS DATED DECEMBER 14, 1955 AND RECORDED DECEMBER 20, 1955 IN BOOK 96, PAGE 150 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA.

EASEMENT NOTES

NOTE 5 TERMS AND PROVISIONS OF DEED OF EASEMENT SET OUT IN AN INSTRUMENT BY AND BETWEEN J. ROBERT BAUR AND JOANNE BAUR, HIS WIFE, OTTIS F. KIRTLEY AND JESSIE A. KIRTLEY, HIS WIFE AND INDIANA & MICHIGAN ELECTRIC COMPANY DATED NOVEMBER 19, 1962 AND RECORDED NOVEMBER 30, 1962 IN BOOK 99, PAGE 574 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA.

NOTE 6 EASEMENT AND ASSOCIATED RIGHTS GRANTED TO INDIANA MICHIGAN POWER BY DUNKIRK INDUSTRIAL DEVELOPMENT CORPORATION IN AN INSTRUMENT DATED SEPTEMBER 9, 2005 AND RECORDED OCTOBER 31, 2005 IN INSTRUMENT NO. 0504108 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA. AFFECTS PARCEL #38-09-09-102-005.002-014.

NOTE 7 TERMS AND PROVISIONS OF TRANSMISSION EASEMENT AGREEMENT SET OUT IN AN INSTRUMENT BY AND BETWEEN DOLPHUS COOPER, A SINGLE MAN AND BITTER RIDGE WIND FARM, LLC DATED MAY 22, 2018 AND RECORDED JULY 30, 2018 IN INSTRUMENT NO. 201802108 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA IS NOT PLOTTABLE AND AFFECTS PARCEL #38-09-09-100-011.000-030.

NOTE 8 EASEMENT AND ASSOCIATED RIGHTS GRANTED TO THE CITY OF DUNKIRK, INDIANA BY KARL ORR AND JEAN ORR, HUSBAND AND WIFE IN AN INSTRUMENT DATED NOVEMBER 10, 1987 AND RECORDED DECEMBER 1, 1987 IN BOOK 154, PAGE 147 IN THE OFFICE OF THE RECORDER OF JAY COUNTY, INDIANA IS NOT PLOTTABLE AND AFFECTS PARCEL #38-09-09-102-005.000-014 AND PARCEL #38-09-09-102-005.002-014.

SURVEYOR'S REPORT

IN ACCORDANCE WITH TITLE 865, ARTICLE 1, CHAPTER 12, SECTION 1 THROUGH 29 OF THE INDIANA ADMINISTRATIVE CODE, THIS RETRACEMENT SURVEY WAS PERFORMED BY OR UNDER THE DIRECTION OF THE REGISTERED LAND SURVEYOR STATED HEREON AND TO THE BEST OF SURVEYOR'S BELIEF WAS EXECUTED ACCORDING TO THE SURVEY REQUIREMENTS OF THIS RULE. FURTHERMORE, 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) AVAILABILITY AND CONDITION OF REFERENCE MONUMENTS:
B) OCCUPATION OR POSSESSION LINES
C) CLARITY OR AMBIGUITY OF THE RECORD DESCRIPTION USED AND OF ADJOINERS' DESCRIPTIONS AND THE RELATIONSHIP OF THE LINES THE SUBJECT TRACT WITH ADJOINER'S LINES
D) RELATIVE POSITIONAL ACCURACY OF THE MEASUREMENTS

THIS SURVEY HAS BEEN PERFORMED UNDER CLASSIFICATION OF A RURAL SURVEY. THE RELATIVE POSITIONAL ACCURACY OF THE MEASUREMENTS AND CORNERS OF THE SUBJECT TRACT ESTABLISHED IN THIS SURVEY ARE WITHIN SPECIFICATIONS FOR A RURAL SURVEY (0.26 FEET PLUS 200 PARTS PER MILLION).

THEORY OF LOCATION

THE PURPOSE OF THE SURVEY IS TO PREPARE A BOUNDARY AND TOPOGRAPHICAL SURVEY FOR THE PARCEL DESCRIBED IN A TITLE COMMITMENT PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26843, EFFECTIVE DATE: JULY 29, 2019.

THE BASIS OF BEARING FOR THIS SURVEY IS THE INDIANA STATE PLANE COORDINATE SYSTEM, EAST ZONE (U.S. SURVEY FEET).

THE FOLLOWING DEEDS, SURVEYS, TITLE COMMITMENTS, AND PLATS WERE REFERENCED FOR THIS SURVEY:

- COMMITMENT FOR TITLE INSURANCE PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26842, EFFECTIVE DATE: JULY 29, 2019
- COMMITMENT FOR TITLE INSURANCE PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26843, EFFECTIVE DATE: JULY 29, 2019
- COMMITMENT FOR TITLE INSURANCE PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26844, EFFECTIVE DATE: JULY 29, 2019
- COMMITMENT FOR TITLE INSURANCE PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26845, EFFECTIVE DATE: JULY 29, 2019
- WARRANTY DEED RECORDED IN BOOK 118, PAGE 14
- WARRANTY DEED RECORDED IN BOOK 135, PAGE 792

COMMENTS/SUMMARY

MONUMENTATION WAS FOUND AT THE FOUR QUARTER CORNERS OF THE NORTHEAST QUARTER OF SECTION 9, TOWNSHIP 22 NORTH, RANGE 12 EAST, RICHLAND TOWNSHIP, JAY COUNTY, INDIANA. THE MONUMENTS FOUND WERE CONSISTENT WITH SECTION CORNER REFERENCE TIES ON FILE AT THE JAY COUNTY SURVEYOR'S OFFICE. THE WEST LINE OF THE EAST HALF OF SAID NORTHEAST QUARTER OF SAID SECTION 9 WAS ESTABLISHED BY HOLDING A FOUND RAILROAD SPIKE AT THE SOUTHWEST CORNER OF SAID EAST HALF AND AN 1/2" REBAR IN CONCRETE FOUND AT THE SOUTH RIGHT OF WAY LINE OF COUNTY ROAD 400 SOUTH. THE BEARING CREATED BY HOLDING THE RAILROAD SPIKE AND NOT THE PK NAIL AT THE SOUTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9 WAS FOUND TO BE REASONABLE AND CONSISTENT WITH RECORD DIMENSIONS AND MONUMENTATION OF THE ADJOINING PARCELS IN SAID EAST HALF. THE NORTHWEST CORNER OF SAID EAST HALF WAS ESTABLISHED BY HOLDING A RAILROAD SPIKE AT THE SOUTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST CORNER OF SAID SECTION 9 AND A 1/2" REBAR IN CONCRETE AT THE NORTHWEST RIGHT OF WAY CORNER OF SURVEYED PARCEL, PROJECTED NORTH TO INTERSECT THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9. A 1/2" REBAR IN CONCRETE FOUND AT THE SOUTHWEST CORNER OF SAID PARCEL DESCRIBED IN A TITLE COMMITMENT PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26843, EFFECTIVE DATE: JULY 29, 2019, AND THE DEEDED DISTANCE EXTENDED NORTHERLY ON SAID WEST LINE OF SAID EAST HALF. THIS LOCATION WAS FOUND TO BE CONSISTENT WITH THE DESCRIPTION CONTAINED IN A COMMITMENT FOR TITLE INSURANCE PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26842, EFFECTIVE DATE: JULY 29, 2019. A MAG NAIL WITH CAPPED WASHER LS-20800148 WAS SET AT THIS CALCULATED LOCATION. THE NORTH LINE OF THE EAST HALF OF SAID NORTHEAST QUARTER WAS ESTABLISHED BY HOLDING THE CALCULATED LOCATION OF SAID NORTHWEST QUARTER (NOW MARKED BY A MAG NAIL WITH WASHER LS-20800148) AND A 3/4" REBAR AT THE NORTHEAST CORNER OF SAID NORTHEAST QUARTER. THE BEARING ON SAID NORTH LINE WAS FOUND TO BE REASONABLE AND CONSISTENT WITH RECORD DIMENSIONS AND MONUMENTATION OF THE ADJOINING PARCELS IN SAID EAST HALF. FROM THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9 A DEEDED DISTANCE OF 503.00 FEET WAS USED GOING EASTERLY ALONG SAID NORTH LINE TO ESTABLISH THE NORTHEAST CORNER OF THE PARCEL. THE EAST LINE OF THE SURVEYED PARCEL WAS ESTABLISHED FROM FOUND MONUMENTATION AND A DISTANCE SOUTH FROM THE NORTHEAST CORNER OF THE PARCEL OF 446.00 FEET. THE SOUTH LINE OF THE PARCEL WAS ESTABLISHED PARALLEL WITH THE NORTH LINE OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9. ALL IRONS ON THE SURVEYED PARCEL WERE FOUND AND CONSISTENT WITH RECORD DIMENSIONS AND MONUMENTATION.

AS A RESULT OF THE ABOVE OBSERVATIONS, IT IS MY OPINION THAT THE UNCERTAINTIES IN THE LOCATIONS OF THE LINES AND CORNERS ON THIS SURVEY ARE AS FOLLOWS:

DUE TO VARIANCES IN THE AVAILABILITY AND CONDITION OF REFERENCE MONUMENTS:
DOUBLE MONUMENTATION AT THE SOUTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9 HAD A VARIANCE OF 0.47' EAST AND WEST AND 0.23' NORTH AND SOUTH.

A FOUND PK NAIL AT THE NORTHEAST CORNER OF THE LAND CONVEYED IN WARRANTY DEED, DOCUMENT NO. 201602999 MAY HAVE BEEN INTENDED TO BE SET AT THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9 BUT IS ACTUALLY 0.91' WEST OF SAID CORNER CREATING A VARIANCE OF 0.91' EAST AND WEST.

DUE TO INCONSISTENCIES IN THE LINES OF OCCUPATION OR POSSESSION:
A FOUND 4' WIRE FENCE ON THE WEST LINE OF THE SURVEYED PARCEL IS RANGES FROM 0.5' AND 0.3' EAST OF THE SURVEYED LINE.

A FOUND 4' WIRE FENCE CROSSES THE SOUTH LINE OF THE SURVEYED PARCEL 0.5' EAST OF THE SOUTHWEST CORNER OF THE SURVEYED PARCEL.

A FOUND 4' WIRE FENCE ON THE SOUTH LINE OF THE SURVEYED PARCEL IS RANGES FROM 0.3' AND 0.8' SOUTH OF THE SURVEYED LINE.

DUE TO DISCREPANCIES OR AMBIGUITY IN THE RECORD OR ADJOINING DESCRIPTIONS:
MONUMENTATION FOUND ON THE ADJOINING PARCEL DESCRIBED IN COMMITMENT FOR TITLE INSURANCE PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26844, EFFECTIVE DATE: JULY 29, 2019, CREATED A POSSIBLE MONUMENTED GAP RANGING FROM 0.91' EAST AND WEST ON THE NORTH AND 1.09' EAST AND WEST ON THE SOUTH BECAUSE THE NORTHEAST CORNER OF THIS PARCEL WAS ALSO REFERRED TO AS THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9. ACTUALLY THIS PARCEL WAS ORIGINALLY DESCRIBED AS AN EXCEPTION FROM A PARENT PARCEL DESCRIBED IN A COMMITMENT FOR TITLE INSURANCE PROVIDED BY MERIDIAN TITLE CORPORATION, FILE NO. 19-26842, EFFECTIVE DATE: JULY 29, 2019. BECAUSE THIS WAS ORIGINALLY DESCRIBED AS AN EXCEPTION, THE DIMENSIONS CALLED FOR IN THE DEED WERE HELD AND NOT THE MORE HISTORICAL LOCATION OF THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9.

THE NEW DESCRIPTION SHOWING THE MEASURED AND DEEDED BEARINGS IS BASED ON OUR SURVEY ROTATED TO THE INDIANA STATE PLANE COORDINATE SYSTEM, EAST ZONE (U.S. SURVEY FEET) AS REQUESTED BY OUR CLIENT.

I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.

SURVEYOR'S NOTES

COORDINATES SHOWN HEREON AT THE PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION LAYOUT. CONTROL POINTS SHOWN HEREON ARE TO BE USED FOR CONSTRUCTION LAYOUT PURPOSES.

HORIZONTAL DATUM: INDIANA STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET.

VERTICAL DATUM: NAVD88

ENTIRE AREA WITHIN SUBSTATION FENCE IS COVERED IN STONE/GRAVEL. GROUND CONTOURS AND SPOT GRADES SHOWN WITHIN THE SUBSTATION FENCE ARE BASED ON EARTH GRADE.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

SURVEYED PARCEL IS LOCATED WITHIN ZONE X, AREA OF MINIMAL FLOOD HAZARD PER FEMA FLOOD INSURANCE RATE MAP NUMBER 18075C0114B, EFFECTIVE DATE 03/17/2014.

FOR ADDITIONAL WIRE AND POLE ELEVATIONS, INSIDE AND AROUND THE STATION, SEE SHEET E-1204

SOUTH COUNTY ROAD 450 WEST (MONUMENTED 50' R/W) & SOUTH COUNTY ROAD 1100 WEST (MONUMENTED 50' R/W) IDENTIFIED AS 40' R/W PER PHONE CONVERSATION WITH DAN WATSON, JAY COUNTY ENGINEER (260) 726-8701 ON 09/04/2019. THIS WAS NOT CONSISTENT WITH THE MONUMENTATION. THE MONUMENTED 50' R/W WAS HELD.

LEGAL DESCRIPTION

THAT PART OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 9, TOWNSHIP 22 NORTH, RANGE 12 EAST, RICHLAND TOWNSHIP, JAY COUNTY, INDIANA, DESCRIBED AS: BEGINNING AT THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9, SAID POINT BEING MARKED BY A SET MAG NAIL WITH WASHER #LS-20800148 BEING 1324.70 FEET SOUTH 88° 51' 33" WEST OF THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MARKED BY A 3/4" IRON ROD. THENCE NORTH 88° 51' 33" EAST ON THE NORTH LINE OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9 A DISTANCE OF 503.00 FEET TO A SET MAG NAIL WITH WASHER #LS-20800148. THENCE SOUTH 00° 41' 37" EAST PARALLEL WITH THE WEST LINE OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 9 A DISTANCE OF 446.00 FEET TO A FOUND 1/2" REBAR IN CONCRETE. THENCE SOUTH 88° 51' 33" WEST PARALLEL WITH SAID NORTH LINE 503.00 FEET TO A FOUND 1/2" REBAR IN CONCRETE ON SAID WEST LINE. THENCE NORTH 00° 41' 37" WEST ON SAID WEST LINE 446.00 FEET TO THE POINT OF BEGINNING. CONTAINING 5.15 ACRES MORE OR LESS.

SUBJECT TO THE RIGHTS OF THE PUBLIC AND OF ANY GOVERNMENTAL UNIT IN ANY PART THEREOF TAKEN, USED, OR DEEDED FOR STREET, ROAD, OR HIGHWAY PURPOSES.

THIS SURVEY DOES NOT COMPLY WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS" OF AN "ALTA/NSPS LAND TITLE SURVEY".

WIGHTMAN
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BRIAN P. LIEBERG — LS-20800148 — 09/11/2019

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INDIANA MICHIGAN TRANSMISSION COMPANY
JAY STATION
DUNKIRK — INDIANA
138/69/34.5/12KV

SITE SURVEY

BOUNDARY AND TOPOGRAPHIC SURVEY

SCALE: 1" = 40'	DR: PMC	ENG:	CH: LFP
	WO#: 42790639	APPD: BPL	DATE: 9/9/2019
AEP AMERICAN ELECTRIC POWER — 1 RIVERSIDE PLAZA, COLUMBUS, OH 43215	DWG. NO. E-1203	REV. 0

NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#

P:\BENTON\HARBOR\180326 AEP - JAY STATION\B) DRAWINGS\B50 AUTOCAD\180326-E1203.DWG

STATION ENGINEERING

PLOTTED BY PATRICK COWGILL ON 10-09-2019 AT 13:35

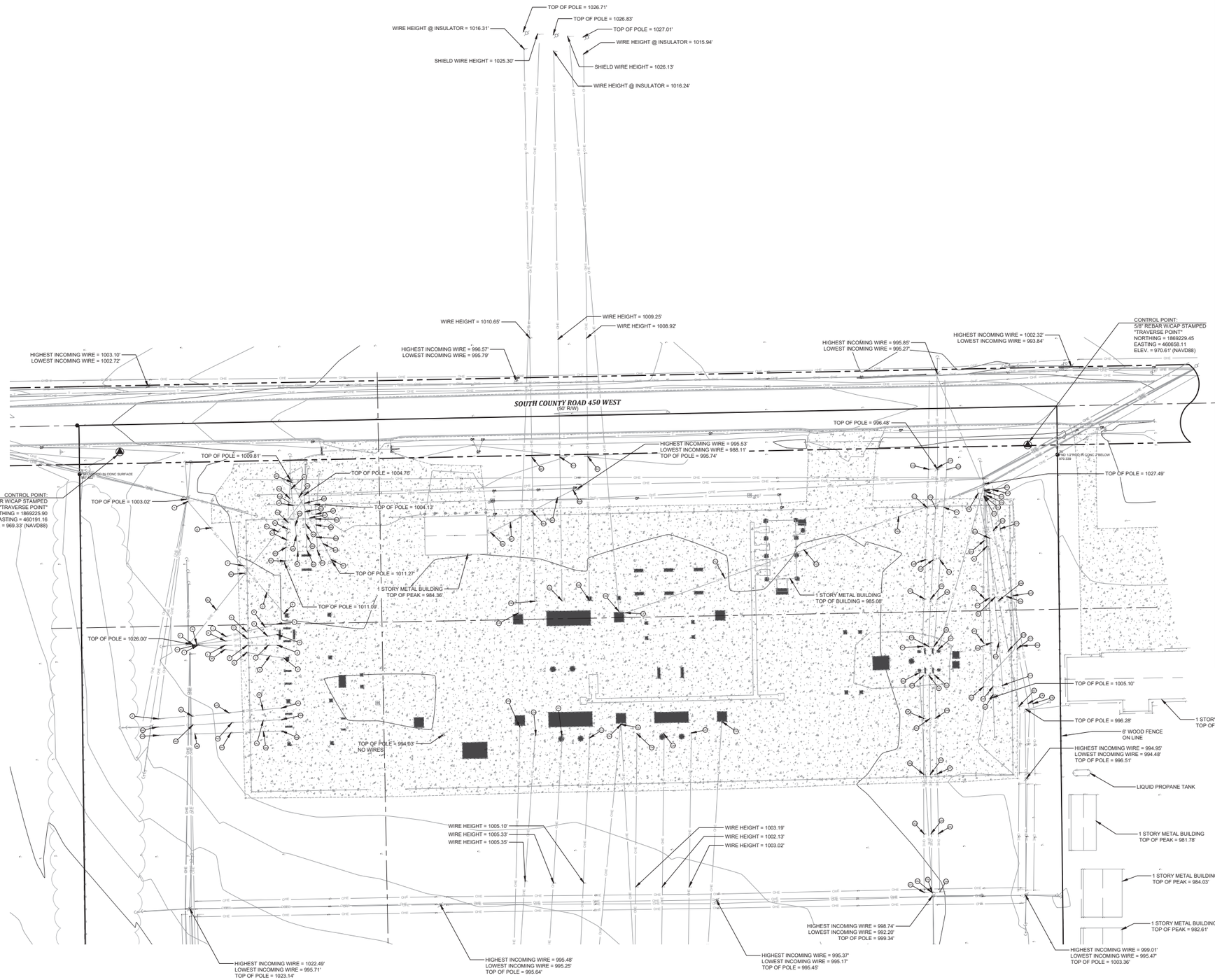
AEP-G (30 X 40)

DWG. NO. E-1204

HORIZONTAL DATUM: NAD83
INDIANA STATE PLANES, EAST ZONE, US SURVEY FOOT

VERTICAL DATUM: NAVD 88

0 20 30 40
1 inch = 20 ft.



WIRE SAG HEIGHTS

NO.	ELEVATION
B	1003.95'
C	1002.50'
D	1003.47'
J	1009.20'
K	1006.43'
L	1003.67'
M	1014.37'
N	1004.75'
O	1002.90'
P	1001.39'
Q	1009.85'
R	1001.27'
S	1000.33'
T	999.67'
U	1006.71'
AC	994.08'
AD	994.06'
AE	993.73'
AF	994.60'
AG	994.55'
AH	994.23'
AI	996.84'
AJ	996.71'
AK	996.56'
AQ	1007.62'
AR	1007.00'
AS	1007.50'
AT	1000.90'
AU	1007.33'
AV	1007.49'
AW	1000.13'
AX	1000.18'
AY	1006.80'
AZ	1008.09'
BA	1000.05
BB	999.86'
BC	1008.49'
BD	1008.73'
BJ	989.03'
BK	989.19'
BL	990.45'
BM	1001.05'
BN	1001.33'
BO	1001.52'
BQ	1001.10'
BT	981.37'
BU	982.78'
BV	985.61'
BX	1010.77'
BY	1009.65'
BZ	1009.30'
CT	990.34'
CU	990.80'
CV	990.29'
CW	986.91'
CX	987.47'
CY	986.69'
CZ	987.38'
DA	987.86'
DB	987.21'
DK	990.75'
DL	990.88'
DM	990.85'
DN	991.21'
DO	991.32'
DP	991.27'
DQ	993.81'
DR	993.99'
DS	993.90'
EE	991.70'
EF	991.49'
EG	1001.78'
EH	1010.28'
EI	1016.48'
EJ	1002.37'
EK	1010.33'
EL	997.14'
EM	990.00'
EN	990.44'
EO	990.09'
EP	997.98'
EQ	1006.37'
ER	995.21'
ES	990.96'
ET	991.33'
EU	991.05'
FC	1005.65'
FD	1010.76'
FE	1018.15'

WIRE HEIGHT @ CONNECTION

NO.	ELEVATION
A	1007.10'
E	1005.29'
F	1024.87'
G	1016.91'
H	1012.09'
I	1007.50'
Y	1005.89'
Z	995.54'
AA	995.81'
AB	995.45'
AO	1008.04'
AP	1002.39'
BE	1010.08'
BF	1000.33'
BG	1000.32'
BH	1000.92'
BI	1010.29'
BP	1002.40'
BR	1001.79'
BS	980.91'
BW	988.11'
CA	1030.35'
CE	1030.36'
CF	1000.72'
CG	1030.43'
CK	1030.40'
CL	1030.42'
CP	1035.71'
CQ	996.14'
CR	996.48'
CS	996.24'
DC	991.54'
DD	991.52'
DE	991.49'
DF	989.48'
DG	989.50'
DH	991.67'
DI	991.66'
DJ	991.67'
DT	998.69'
DU	998.67'
DV	992.20'
DW	998.74'
DX	993.64'
DY	1025.15'
DZ	996.85'
EA	993.70'
EB	1006.54'
EC	1012.31'
ED	1018.09'
EV	995.17'
EW	994.77'
EX	1003.77'
EY	994.65'
EZ	994.22'
FA	994.16'
FB	994.17'

WIRE HEIGHT @ INSULATOR

NO.	ELEVATION
V	999.28'
W	999.11'
X	999.02'
AL	998.78'
AM	998.56'
AN	998.51'
CB	1012.77'
CC	1012.32'
CD	1012.34'
CH	1012.74'
CI	1012.68'
CJ	1012.53'
CM	1012.03'
CN	1011.75'
CO	1011.90'

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INDIANA MICHIGAN TRANSMISSION COMPANY

JAY STATION

DUNKIRK INDIANA

138/69/34.5/12KV

SITE SURVEY

DETAILS

SCALE: 1" = 20'	DR: PMC	ENG:	CH: LFP
AMERICAN ELECTRIC POWER	WO#: 42790639	APPD: BPL	DATE: 9/9/2019
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1204	REV. 0	

NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#

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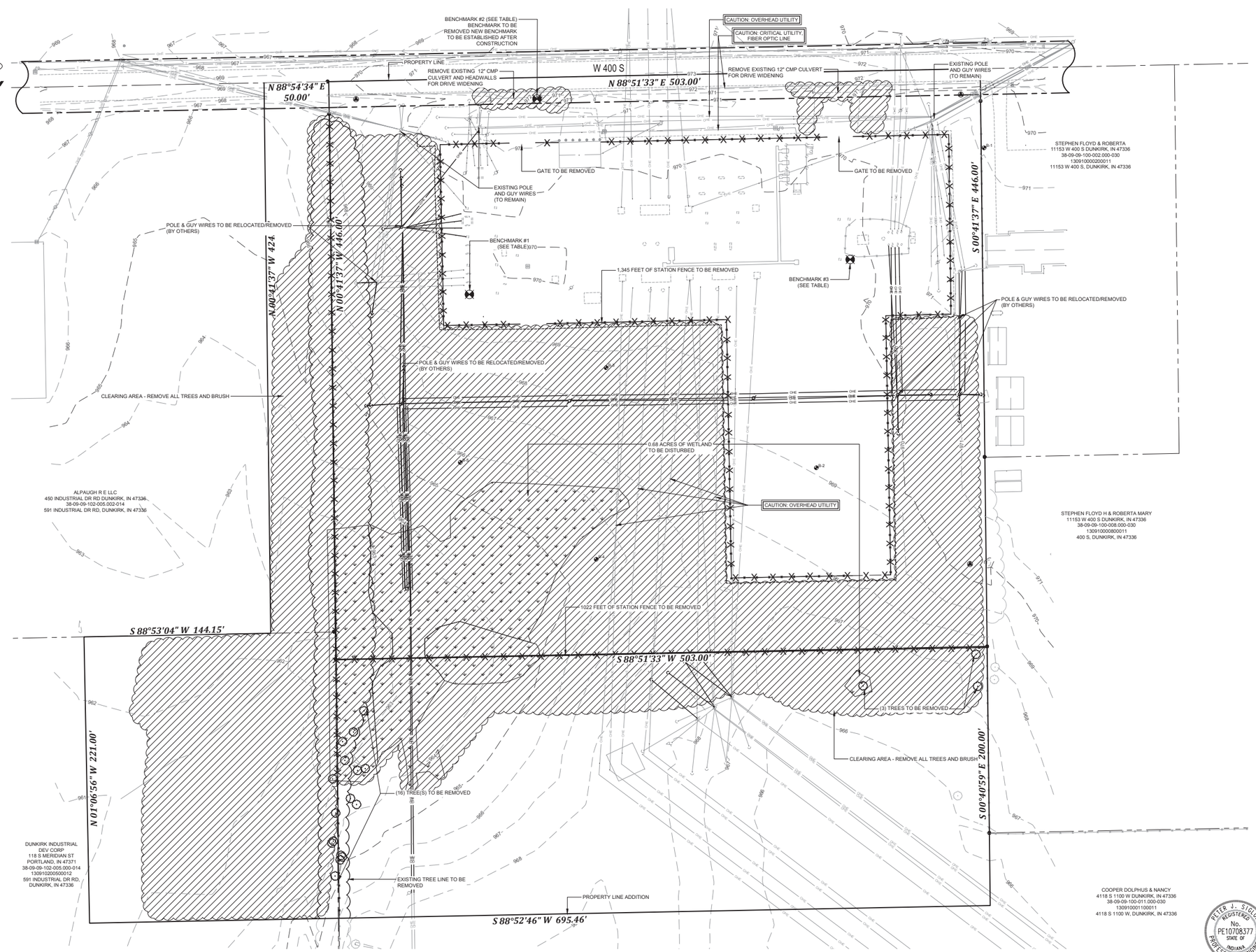
AEP G (30 X 40)

PLOTTED BY NOAH BOYD ON 09-08-2020 AT 08:36

STATION ENGINEERING



LEGEND

- = EXISTING ELECTRIC LINE (OVERHEAD)
- = EXISTING ELECTRIC LINE (UNDERGROUND)
- = EXISTING FENCE
- = EXISTING GUARDRAIL
- = EXISTING MAJOR CONTOUR
- = EXISTING MINOR CONTOUR
- = EXISTING STORM SEWER
- = EXISTING TELECOMMUNICATIONS
- = EXISTING GAS MAIN
- = EXISTING WATER MAIN
- = EXISTING CENTER LINE
- = PROPERTY LINE/EASEMENT LINE
- = RIGHT-OF-WAY LINE
- = SECTION LINE
- = EXISTING TREE LINE
- = EXISTING GRAVEL EDGE
- = EXISTING FENCE TO BE REMOVED
- = POWER POLE
- = GUY WIRE ANCHOR
- = BENCHMARK
- = SOIL BORING LOCATION
- = REMOVAL / CLEARING AREA
- = WETLAND

REFERENCE SHEETS

COVER SHEET	E-1211
SITE SURVEY	E-1203
SITE SURVEY	E-1204
SITE LAYOUT PLAN	E-1213
GRADING PLAN	E-1214
GRADING SECTION VIEWS	E-1215
EROSION & SEDIMENT CONTROL PLAN	E-1216
EROSION & SEDIMENT CONTROL DETAILS	E-1217

PETER J. STELGIN REGISTERED No. PE10708377 STATE OF INDIANA PROFESSIONAL ENGINEER

WIGHTMAN

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INDIANA MICHIGAN TRANSMISSION COMPANY

JAY STATION

DUNKIRK INDIANA

138/69/34.5/12KV

GRADING PLAN

DEMOLITION PLAN

SCALE: 1" = 30' | DR: NEB | ENG: TWC | CH: PMC

AMERICAN ELECTRIC POWER | WO#: 42790639 | APPD: PJS | DATE: 1/15/2020

1 RIVERSIDE PLAZA COLUMBUS, OH 43215 | DWG. NO. E-1212 | REV. 0

NOTIFY UTILITY COMPANIES BEFORE YOU DIG

IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#

P:\BENTONHARBOR\180326 AEP - JAY STATION\B) DRAWINGS\B50 AUTOCAD\180326-E1212.DWG

AEP G (30 X 46) | PLOTTED BY NOAH BOYD ON 15-07-2020 AT 12:27 | STATION ENGINEERING

DWG. NO. E-1212

HORIZONTAL DATUM: NAD83
INDIANA STATE PLANES, EAST
ZONE, US SURVEY FOOT

VERTICAL DATUM: NAVD 88

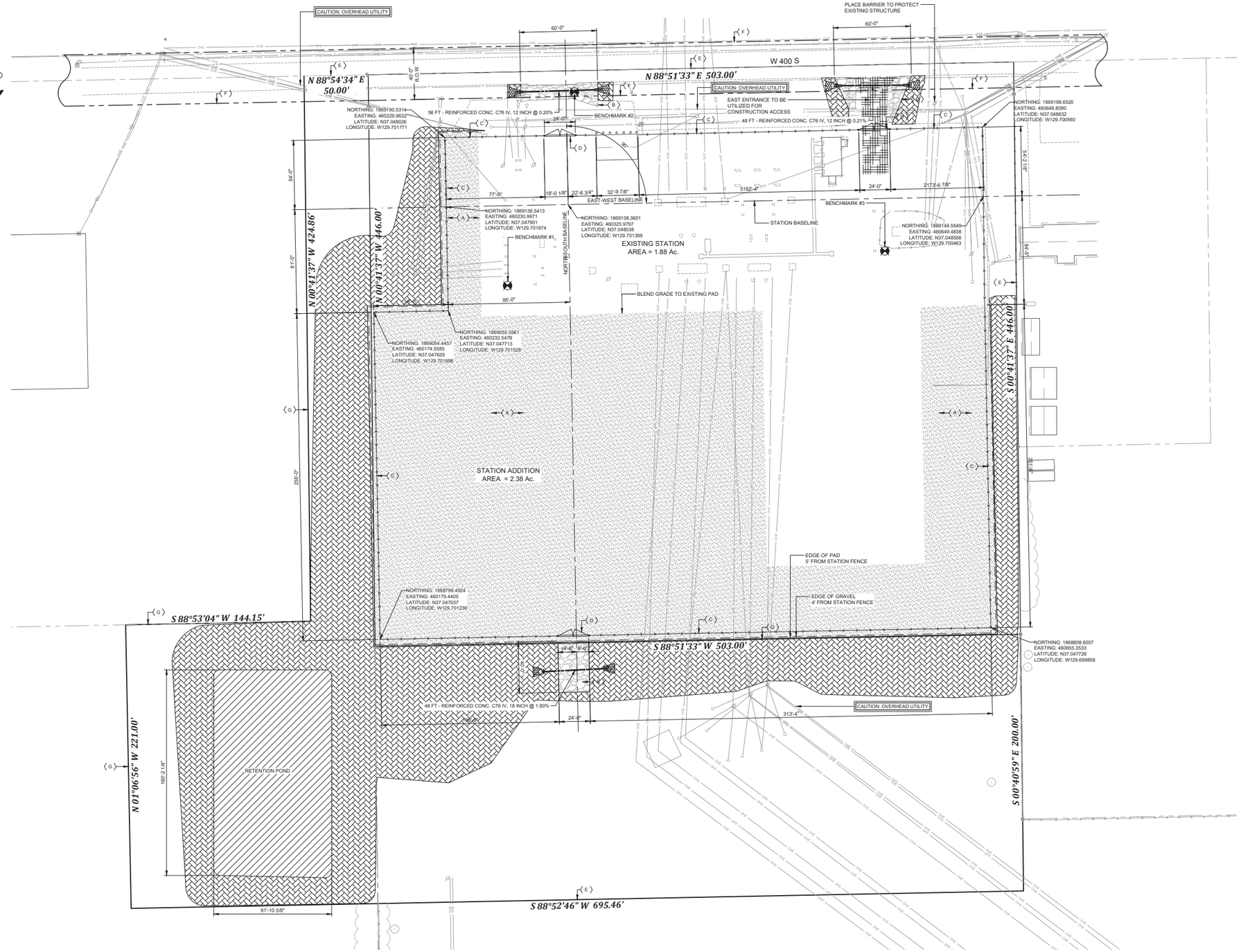
0 30 45 60
1 inch = 30 ft.

BENCHMARKS

BENCHMARK #1
SOUTHEASTERLY BOLT ON LEG FLANGE
LATITUDE = N40° 22' 43.99"
LONGITUDE = W85° 11' 31.80"
NORTHING = 1869075.208
EASTING = 460278.732
ELEV. = 970.72' (NAVD88)

BENCHMARK #2
SMALL MAG ON SOUTHERLY END OF HEADWALL
LATITUDE = N40° 22' 45.48"
LONGITUDE = W85° 11' 31.12"
NORTHING = 1869226.086
EASTING = 460330.877
ELEV. = 971.54' (NAVD88)

BENCHMARK #3
SOUTHEASTERLY BOLT ON LEG FLANGE
LATITUDE = N40° 22' 44.24"
LONGITUDE = W85° 11' 28.00"
NORTHING = 1869102.156
EASTING = 460572.717
ELEV. = 970.70' (NAVD88)



KEYNOTES

(A) SUBSTATION PAD (8" AGGREGATE BASE)
(B) DRIVEWAY (SEE SHEET E-1214)
(C) NEW SUBSTATION FENCE PER AEP STANDARD SHEETS L1PX001U SH. A - L1PX001U SH. D
(D) 24' STATION GATE PER AEP STANDARD SHEETS L1PX001U SH. A - L1PX001U SH. D
(E) PROPERTY LINE
(F) R.O.W. LINE
(G) INTERIOR PROPERTY LINE

LEGEND

= EXISTING ELECTRIC LINE (OVERHEAD)
= EXISTING ELECTRIC LINE (UNDERGROUND)
= EXISTING FENCE
= EXISTING GUARDRAIL
= EXISTING MAJOR CONTOUR
= EXISTING MINOR CONTOUR
= EXISTING STORM SEWER
= EXISTING TELECOMMUNICATIONS
= EXISTING GAS MAIN
= EXISTING WATER MAIN
= EXISTING CENTER LINE
= PROPERTY LINE/EASEMENT LINE
= RIGHT-OF-WAY LINE
= SECTION LINE
= EXISTING TREE LINE
= PROPOSED MAJOR CONTOUR
= PROPOSED MINOR CONTOUR
= PROPOSED FENCE
= PROPOSED GUARDRAIL
= PROPOSED STORM SEWER
= PROPOSED GRAVEL EDGE
= POWER POLE
= GUY WIRE ANCHOR
= BENCHMARK
STATION STONE (BY OTHERS)
DRIVEWAY (SEE SHEET E-1213 FOR DETAILS)
NATIVE SEEDING (POND BOTTOM)
AREAS RECEIVING MULCH BLANKET SEEDING
TEMPORARY CONSTRUCTION ENTRANCE
RIP-RAP

REFERENCE SHEETS

COVER SHEET	E-1211
SITE SURVEY	E-1203
SITE SURVEY	E-1204
GRADING PLAN	E-1212
GRADING PLAN	E-1214
GRADING SECTION VIEWS	E-1215
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PETER J. SIGLER REGISTERED No. PE10708377 STATE OF INDIANA PROFESSIONAL ENGINEER

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INDIANA MICHIGAN TRANSMISSION COMPANY
JAY STATION
DUNKIRK INDIANA
138/69/34.5/12KV
SITE LAYOUT PLAN

SCALE: 1" = 30' | DR: NEB | ENG: TWC | CH: PMC
WO#: 42790639 | APPD: PJS | DATE: 1/15/2020
AMERICAN ELECTRIC POWER — 1 RIVERSIDE PLAZA COLUMBUS, OH 43215
DWG. NO. E-1213 | REV 0

NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#

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AEP G (30 X 48)

PLOTTED BY NOAH BOYD ON 15-07-2020 AT 14:38

STATION ENGINEERING

DWG. NO. E-1213

HORIZONTAL DATUM: NAD83
INDIANA STATE PLANES, EAST ZONE, US SURVEY FOOT

VERTICAL DATUM: NAVD 88

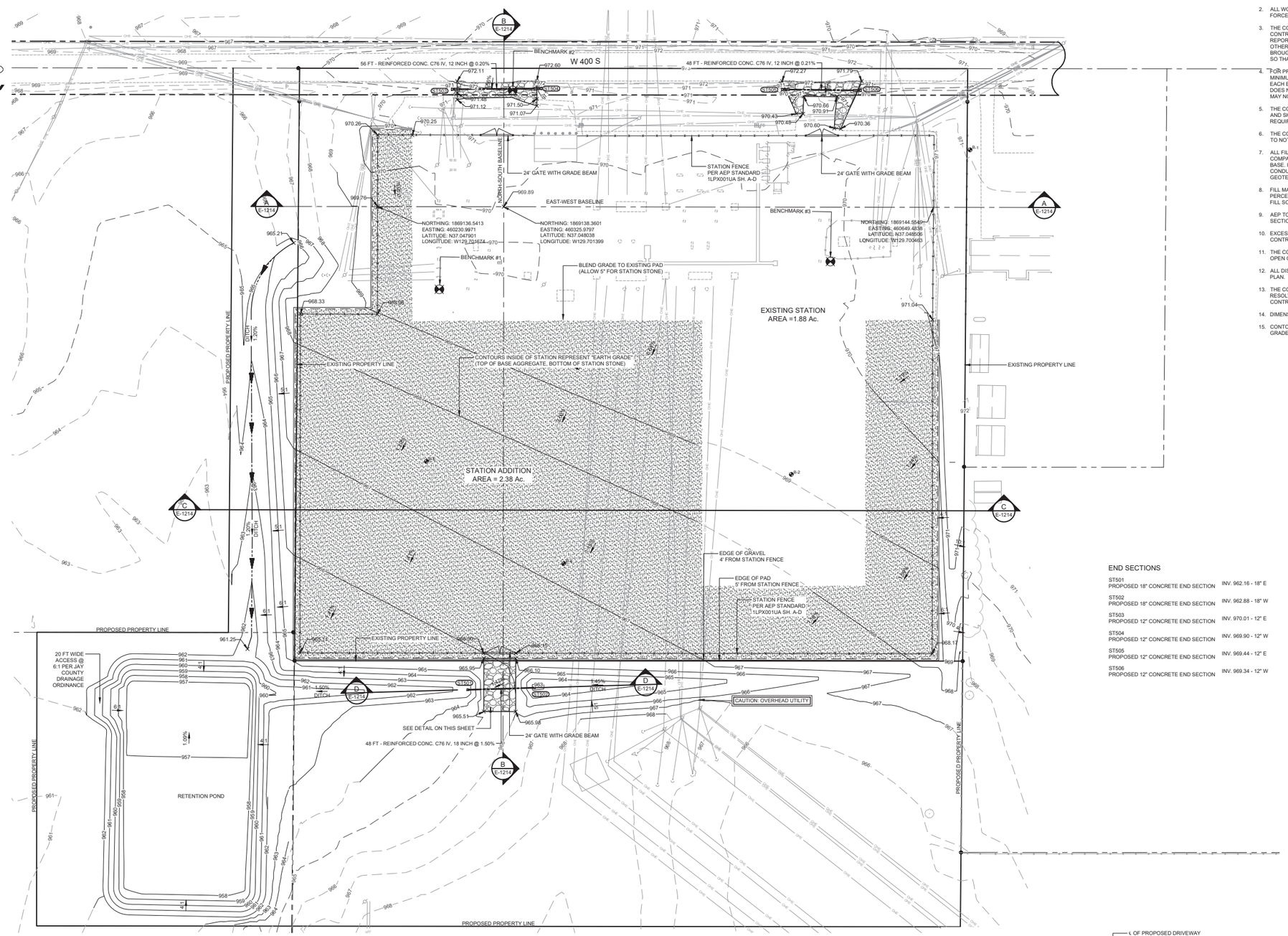
0 15 30 45 60
1 inch = 30 ft.

BENCHMARKS

BENCHMARK #1
SOUTHEASTERLY BOLT ON LEG FLANGE
LATITUDE = N40° 22' 43.99"
LONGITUDE = W85° 11' 31.80"
NORTHING = 1869075.208
EASTING = 460278.732
ELEV. = 970.72' (NAVD88)

BENCHMARK #2
SMALL MAG ON SOUTHERLY END OF HEADWALL
LATITUDE = N40° 22' 45.48"
LONGITUDE = W85° 11' 31.12"
NORTHING = 1869226.086
EASTING = 460330.877
ELEV. = 971.54' (NAVD88)

BENCHMARK #3
SOUTHEASTERLY BOLT ON LEG FLANGE
LATITUDE = N40° 22' 44.24"
LONGITUDE = W85° 11' 28.00"
NORTHING = 1869102.156
EASTING = 460572.717
ELEV. = 970.70' (NAVD88)



1. CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE AEP "TECHNICAL SPECIFICATION FOR SUBSTATION AND SWITCHING STATION CONSTRUCTION" (SS-160102) AND THE AEP "SITE PREPARATION GUIDELINES" (SS-710000), AND WHERE NOT COVERED BY THE AEP STANDARDS, THE 2020 "STANDARD SPECIFICATIONS" FOR CONSTRUCTION BY THE INDIANA DEPARTMENT OF TRANSPORTATION .
2. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND/OR PLANS PREPARED BY OTHERS. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
4. FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CONTACT "INDIANA811" A MINIMUM OF 72 HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "INDIANA811" ALERT SYSTEM.
5. THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE JAY COUNTY SURVEYOR'S OFFICE, TO NOTIFY THEM THAT WORK IS COMMENCING.
7. ALL FILL MATERIAL SHOULD BE AT APPROXIMATELY THE OPTIMUM MOISTURE CONTENT DURING COMPACTION. FURTHERMORE, FILL MATERIAL SHOULD NOT BE FROZEN NOR BE PLACED ON A FROZEN BASE. IT IS RECOMMENDED THAT ALL EARTHWORK AND SITE PREPARATION ACTIVITIES BE CONDUCTED UNDER ADEQUATE SUPERVISION AND PROPERLY CONTROLLED IN THE FIELD BY A GEOTECHNICAL ENGINEERING TESTING FIRM.
8. FILL MATERIAL CONTAINING COHESIVE SOIL SHALL HAVE A PLASTICITY INDEX BETWEEN 7 AND 20 PERCENT PER ASTM D 4318 AND MEET ALL OTHER REQUIREMENTS OF AEP SPECIFICATION SS-160102. FILL SOILS ARE TO BE APPROVED BY THE TCR OR ENGINEER.
9. AEP TO PERFORM COMPACTION TESTING AND SUPPLY RESULTS TO CONTRACTOR PER SS-160102 SECTION 4.6.
10. EXCESS FILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT, AS REQUIRED.
12. ALL DISTURBED LAWN AREAS SHALL BE RESTORED PER THE STORM WATER POLLUTION PREVENTION PLAN.
13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS, AND SHALL RESOLVE ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH MAY RESULT FROM THE CONTRACTOR'S ACTIVITIES.
14. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
15. CONTOURS AND SPOT ELEVATIONS INSIDE OF STATION FENCE REPRESENT "EARTH GRADE" (FINISH GRADE MINUS 5" OF STATION STONE).

LEGEND

- = EXISTING ELECTRIC LINE (OVERHEAD)
- = EXISTING ELECTRIC LINE (UNDERGROUND)
- = EXISTING FENCE
- = EXISTING GUARDRAIL
- = EXISTING MAJOR CONTOUR
- = EXISTING MINOR CONTOUR
- = EXISTING STORM SEWER
- = EXISTING TELECOMMUNICATIONS
- = EXISTING GAS MAIN
- = EXISTING WATER MAIN
- = EXISTING CENTER LINE
- = PROPERTY LINE/EASEMENT LINE
- = RIGHT-OF-WAY LINE
- = SECTION LINE
- = EXISTING TREE LINE
- = PROPOSED MAJOR CONTOUR
- = PROPOSED MINOR CONTOUR
- = PROPOSED FENCE
- = PROPOSED GUARDRAIL
- = PROPOSED STORM SEWER
- = PROPOSED GRAVEL EDGE
- = POWER POLE
- = GUY WIRE ANCHOR
- = BENCHMARK
- = SOIL BORING

END SECTIONS

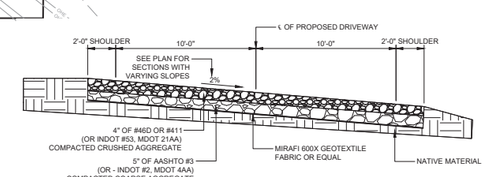
ST501 PROPOSED 18" CONCRETE END SECTION	INV. 962.16 - 18" E
ST502 PROPOSED 18" CONCRETE END SECTION	INV. 962.88 - 18" W
ST503 PROPOSED 12" CONCRETE END SECTION	INV. 970.01 - 12" E
ST504 PROPOSED 12" CONCRETE END SECTION	INV. 969.90 - 12" W
ST505 PROPOSED 12" CONCRETE END SECTION	INV. 969.44 - 12" E
ST506 PROPOSED 12" CONCRETE END SECTION	INV. 969.34 - 12" W

STATION PAD TO BE BUILT UP WITH SITE MATERIAL EXCEPT FOR TOP 8" TO BE MDOT 22A OR INDOT #73 TO REACH "EARTH GRADE". STATION TOP STONE TO BE A MINIMUM 5" OF WASHED CRUSHED LIMESTONE MEETING THE REQUIREMENTS OF ASTM C33 FOR A NO. 57 AGGREGATE. SEE ARTICLE 12 OF SS-160102.

GRAVEL DRIVE AGGREGATE SHALL BE A MINIMUM OF 5" INDOT #2 SUBBASE MATERIAL AND 4" OF INDOT #53. SEE DETAIL ON SHEET THIS SHEET FOR SPECIFICATIONS.

REFERENCE SHEETS

COVER SHEET	E-1211
SITE SURVEY	E-1203
SITE SURVEY	E-1204
GRADING PLAN	E-1212
SITE LAYOUT PLAN	E-1213
GRADING SECTION VIEWS	E-1215
EROSION & SEDIMENT CONTROL PLAN	E-1216
EROSION & SEDIMENT CONTROL DETAILS	E-1217



DRIVEWAY SECTION
SCALE: NONE

PETER J. SIGLOW REGISTERED No. PE10708377 STATE OF INDIANA PROFESSIONAL ENGINEER

WIGHTMAN
BENTON HARBOR 269.927.0100 | KALAMAZOO 269.327.3532 | ALLEGAN 269.673.8465 | ROYAL OAK 248.791.1371
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INDIANA MICHIGAN TRANSMISSION COMPANY
JAY STATION
DUNKIRK INDIANA
138/69/34.5/12KV
GRADING PLAN
SITE GRADING

SCALE: 1" = 30'	DR: NEB	ENG: TWC	CH: PMC
	WO#: 427900639	APPD: PJS	DATE: 1/15/2020
AMERICAN ELECTRIC POWER	1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1214	REV. 0

NO.	DATE	REVISION DESCRIPTION	APPR.	DR.	ENG.	CK.	ISSUE#

STATION ENGINEERING

PLOTTED BY NOAH BOYD ON 15-07-2020 AT 14:39

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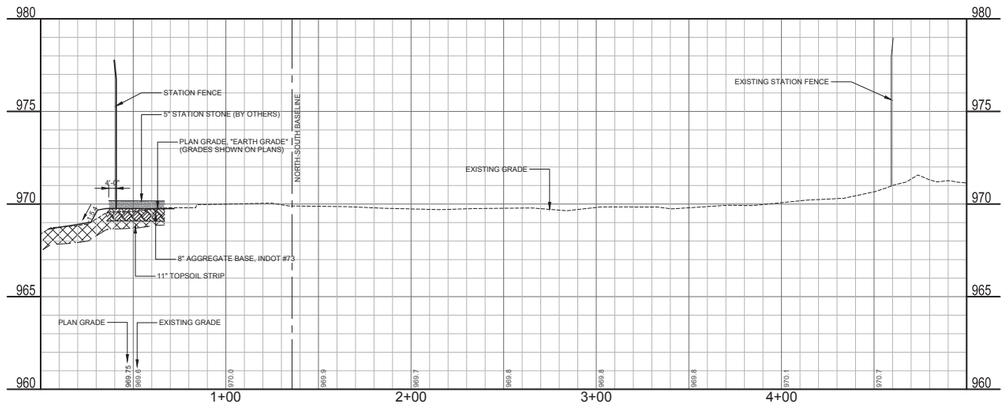
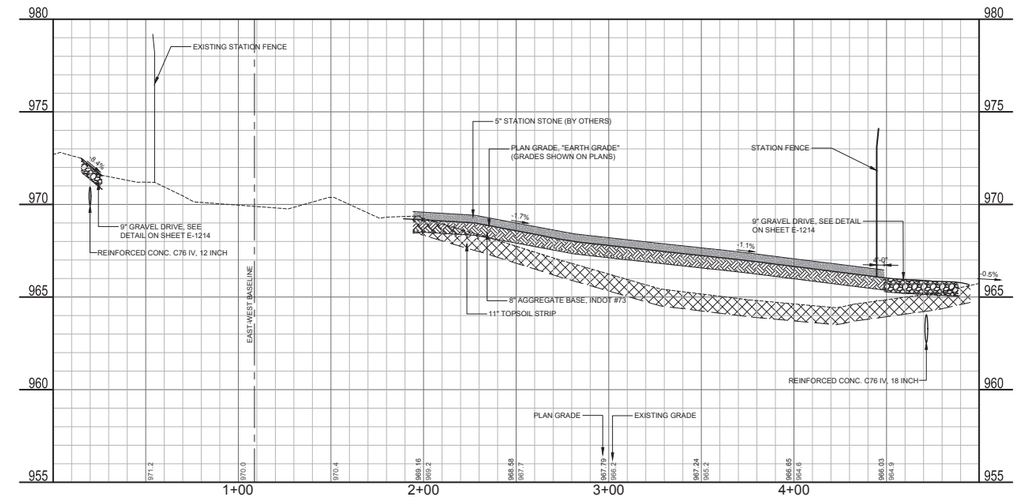
AEP G (30 X 46)

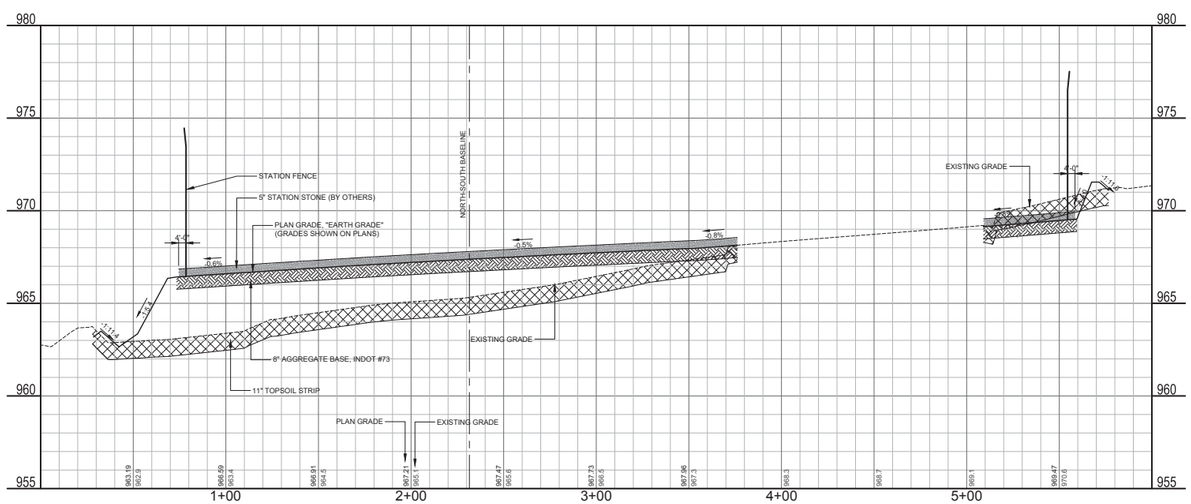
CM 1 2 3 4 5 6 7 | 1/16 INCH 4 8 12 16 | TENTHS 10 20 30 | INCHES 1 2 3



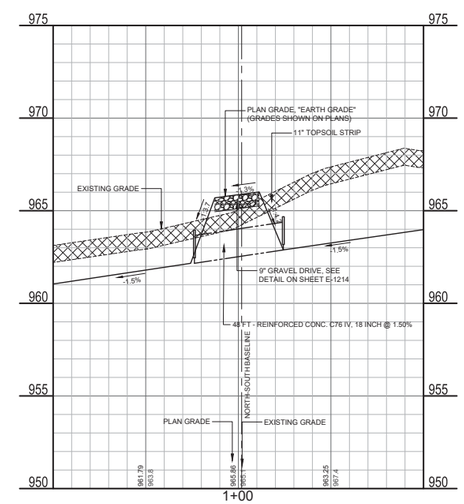
SECTION A-A
SCALE: 1" = 30' H, 3' V



SECTION B-B
SCALE: 1" = 30' H, 3' V



SECTION C-C
SCALE: 1" = 30' H, 3' V



SECTION D-D
SCALE: 1" = 30' H, 3' V

LEGEND

- AGGREGATE BASE
- STATION STONE
- TOPSOIL STRIP

REFERENCE SHEETS

COVER SHEET	E-1211
SITE SURVEY	E-1203
SITE SURVEY	E-1204
GRADING PLAN	E-1212
SITE LAYOUT PLAN	E-1213
GRADING PLAN	E-1214
EROSION & SEDIMENT CONTROL PLAN	E-1216
EROSION & SEDIMENT CONTROL DETAILS	E-1217

PETER J. SIGLOW REGISTERED No. PE10708377 STATE OF INDIANA PROFESSIONAL ENGINEER

WAI #180326

WIGHTMAN

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INDIANA MICHIGAN TRANSMISSION COMPANY

JAY STATION

DUNKIRK INDIANA

138/69/34.5/12KV

GRADING SECTION VIEWS

SECTIONS AND DETAILS

SCALE: AS NOTED	DR: NEB	ENG: TWC	CH: PMC
AMERICAN ELECTRIC POWER	WO#: 42790639	APPD: PJS	DATE: 1/15/2020
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1215	REV. 0	

NO.	DATE	REVISION DESCRIPTION	APPR	DR	ENG.	CK	ISSUE#

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STATION ENGINEERING

PLOTTED BY PATRICK COWGILL ON 17-07-2020 AT 08:41

AEP G (30 X 48)

DWG. NO. E-1215

HORIZONTAL DATUM: NAD83
INDIANA STATE PLANES, EAST
ZONE, US SURVEY FOOT

VERTICAL DATUM: NAVD 88

0 30 45 60
1 inch = 30 ft.

BENCHMARKS

BENCHMARK #1
SOUTHEASTERLY BOLT ON LEG FLANGE
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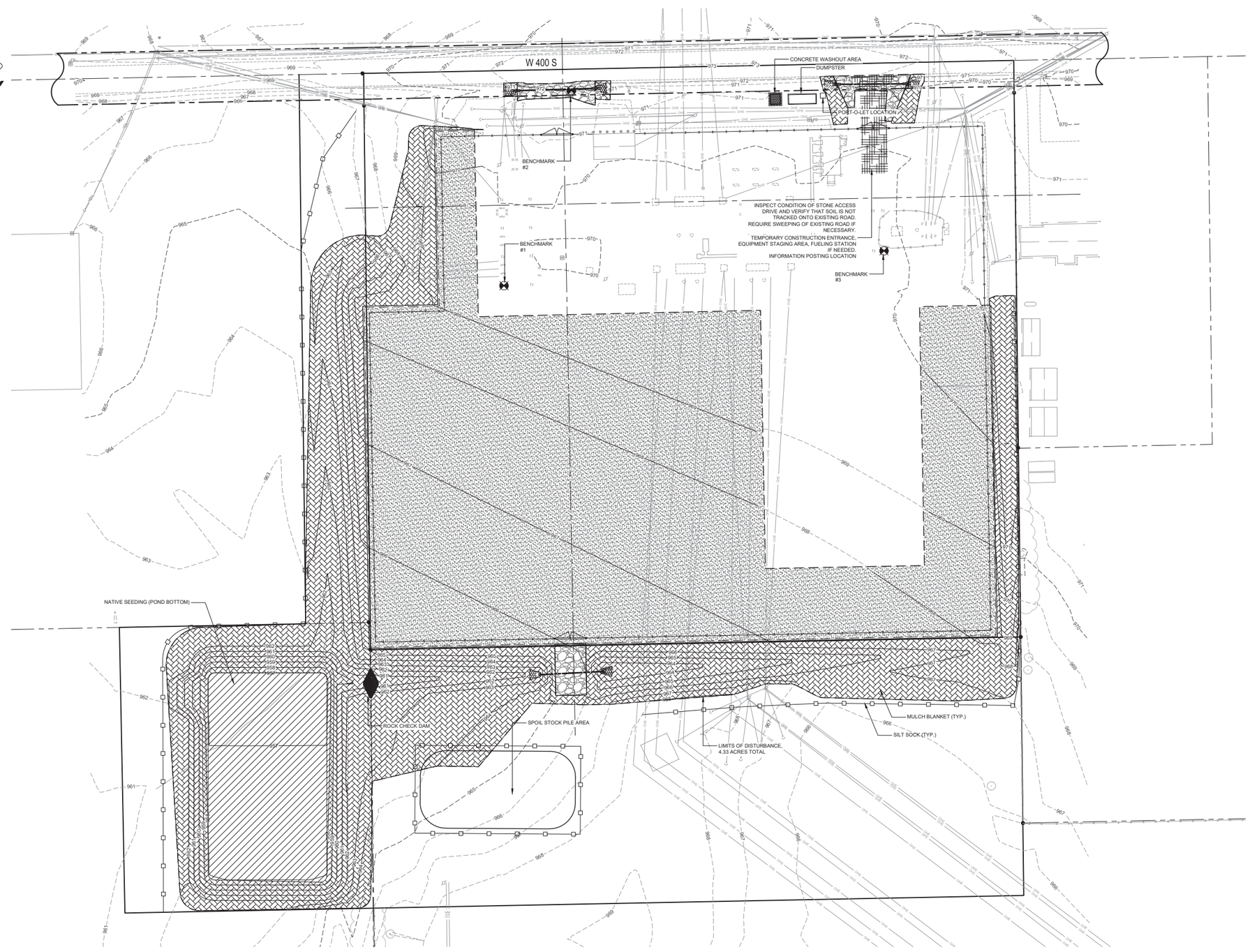

RESTORATION AND SEEDING NOTES

ALL DISTURBED AREAS NOT SCHEDULED FOR GRAVEL OR PAVEMENT SHALL BE RESTORED WITH A MINIMUM 4" OF TOPSOIL SURFACE, SEEDED AND MULCHED PER AEP TECHNICAL SPECIFICATION SS-160102 SECTION 3.

PERMANENT SEEDING
95 LBS (56%) KENTUCKY 31 FESCUE
65 LBS (38%) PERENNIAL RYEGRASS
10 LBS (6%) JASPER RED FESCUE

APPLICATION RATE: 170 LBS PURE LIVE SEED / ACRE

APPLY CHEMICAL FERTILIZER:
12-12-12 UNIFORMLY AT 800 LBS / ACRE

APPLY STRAW MULCH AT A RATE OF 2 TONS / ACRE, OR MULCH BLANKET IN AREAS AS SPECIFIED ON THE PLAN.

TEMPORARY SEEDING
50% ANNUAL RYE
50% SPRING OATS

APPLICATION RATE: 100 LBS PURE LIVE SEED / ACRE

NATIVE SEEDING (POND BOTTOM)
6" TOPSOIL
CARDNO JFNEW SEED MIX "STORMWATER" OR SIMILAR
100 LBS PURE LIVE SEED / ACRE
FERTILIZE AND MULCH SAME AS PERMANENT SEED AREAS

EROSION CONTROL LEGEND

- SEEDING WITH FIBER BLANKET NORTH AMERICAN GREEN S150BN
- TEMPORARY CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- CONSTRUCTION DUMPSTER
- PORT-O-LET
- RIP-RAP OUTFLOW FLARED END SECTION W/RIP-RAP
- ROCK CHECK DAM
- SILT SOCK
- NATIVE SEEDING (POND BOTTOM)
- RIP-RAP

LEGEND

- = EXISTING ELECTRIC LINE (OVERHEAD)
- = EXISTING ELECTRIC LINE (UNDERGROUND)
- = EXISTING FENCE
- = EXISTING GUARDRAIL
- = EXISTING MAJOR CONTOUR
- = EXISTING MINOR CONTOUR
- = EXISTING STORM SEWER
- = EXISTING TELECOMMUNICATIONS
- = EXISTING GAS MAIN
- = EXISTING WATER MAIN
- = EXISTING CENTER LINE
- = PROPERTY LINE/EASEMENT LINE
- = RIGHT-OF-WAY LINE
- = SECTION LINE
- = EXISTING TREE LINE
- = PROPOSED MAJOR CONTOUR
- = PROPOSED MINOR CONTOUR
- = PROPOSED FENCE
- = PROPOSED GUARDRAIL
- = PROPOSED STORM SEWER
- = PROPOSED GRAVEL EDGE
- = SILT SOCK
- = ORANGE BARRIER FENCE (SNOW FENCE)
- = LIMITS OF DISTURBANCE
- = POWER POLE
- = GUY WIRE ANCHOR
- = BENCHMARK

REFERENCE SHEETS

COVER SHEET	E-1211
SITE SURVEY	E-1203
SITE SURVEY	E-1204
GRADING PLAN	E-1212
SITE LAYOUT PLAN	E-1213
GRADING PLAN	E-1214
GRADING SECTION VIEWS	E-1215
EROSION & SEDIMENT CONTROL DETAILS	E-1217

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INDIANA MICHIGAN TRANSMISSION COMPANY

JAY STATION

DUNKIRK INDIANA

138/69/34.5/12KV

EROSION & SEDIMENT CONTROL PLAN

SITE SWPPP

SCALE: 1" = 30'	DR: NEB	ENG: TWC	CH: PMC
	WO#: 42790639	APPD: PJS	DATE: 1/15/2020
AMERICAN ELECTRIC POWER	1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1216	REV. 0

NO	DATE	REVISION DESCRIPTION	APPR	DR	ENG	CK	ISSUE#

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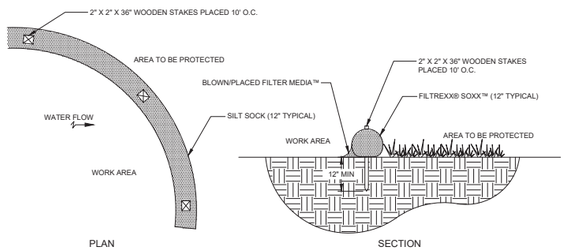
AEP G (30 X 46)

PLOTTED BY NOAH BOYD ON 15-07-2020 AT 1501

STATION ENGINEERING

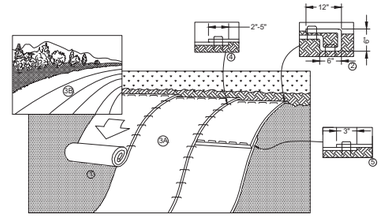
CM 1 2 3 4 5 6 7 | 1/16 INCH 4 8 12 16 | TENTHS 10 20 30 | INCHES 1 2 3

DWG. NO. E-1217



SILT SOCK DETAIL

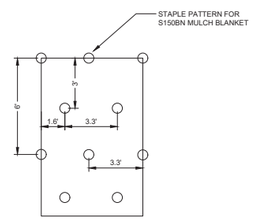
SCALE: NONE



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's) WITH TOPSOIL AND FERTILIZER PER RESTORATION AND SEEDING NOTES, AND AEP STANDARD SPECIFICATION SS-160102.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH. NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

MULCH BLANKET SLOPE PATTERN

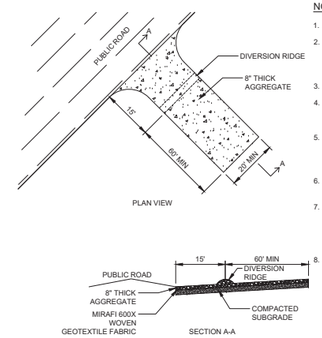
SCALE: NONE



1.15 STAPLES PER SQ. YD.
(1.35 STAPLES PER SQ. M.)

MULCH BLANKET STAPLE PATTERN

SCALE: NONE

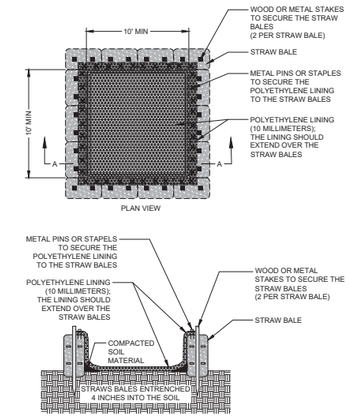


NOTES

1. UTILIZE EXISTING DRIVEWAY AND ADD STONE AS REQUIRED WHEN POSSIBLE.
2. ACCEPTABLE AGGREGATE
   a. ASTM D48 SIZE #1 (2" TO 3" DIA.)
   b. INDOT COARSE AGGREGATE NO. 2
   c. MDOT COARSE AGGREGATE 3x1 (3/4" TO 3" DIA.)
3. PLACE GEOTEXTILE OVER ENTIRE AREA PRIOR TO AGGREGATE PLACEMENT.
4. SURFACE WATER TO BE ROUTED AROUND CONSTRUCTION ENTRANCE WITH CULVERT UNDER ENTRANCE OR MOUNTABLE BERM AROUND ENTRANCE.
5. THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC ROAD. PERIODIC PLACEMENT OF ADDITIONAL AGGREGATE MAY BE REQUIRED.
6. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROAD SHALL BE REMOVED IMMEDIATELY.
7. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING PUBLIC ROADS. IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
8. PROVIDE PERIODIC INSPECTION AND MAINTENANCE, INCLUDING AFTER EACH RAIN EVENT.

TEMPORARY CONSTRUCTION ENTRANCE

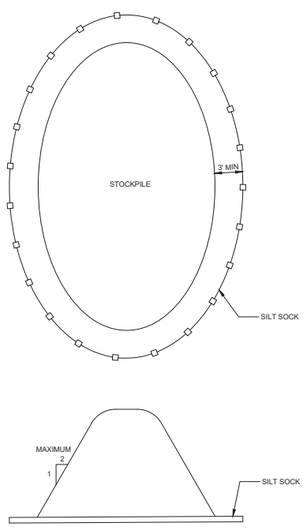
SCALE: NONE



1. CONCRETE WASHOUT SYSTEM WILL CONTAIN WASHOUT WATER WHEN CHUTES & HOPPERS ARE RINSED FOLLOWING CONCRETE DELIVERY TO THE CONSTRUCTION SITE.
2. SCRAP AS MUCH MATERIAL FROM CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
3. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE, IT SHOULD BE RESTRICTED TO PLANT.
4. DO NOT USE ADDITIVES WITH WASH WATER. DO NOT USE ACID OR SOLVENTS.
5. FURNISH A SIGNAGE FOR THE CONCRETE WASHOUT AREA.
6. FURNISH ORANGE SAFETY FENCING OR EQUAL.

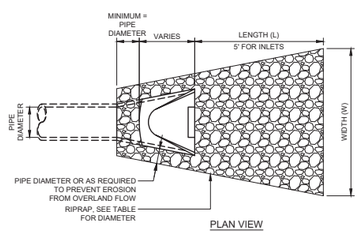
CONCRETE WASHOUT DETAIL

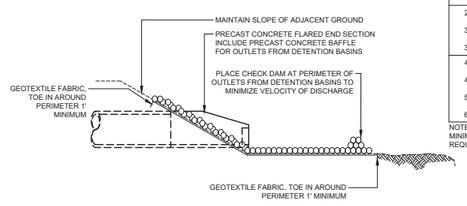
SCALE: NONE



TEMPORARY STOCKPILE AREA DETAIL

SCALE: NONE





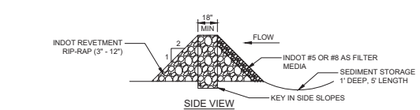
TYPICAL END SECTION DETAIL

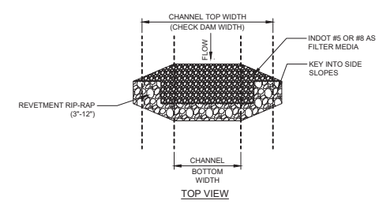
SCALE: NONE

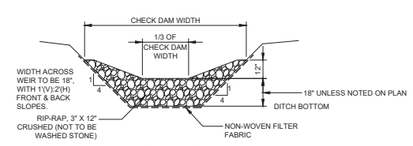
RIPRAP TABLE

PIPE DIA	LENGTH (FT)	WIDTH (FT)	RIPRAP Ø (IN)
12" 15" 18	5'	8'	8" - 16" (PLAIN)
24" 30" 36"	10'	14'	8" - 16" (PLAIN)
42" 48" 54" 60"	15'	20'	GREATER THAN 16" (HEAVY)

NOTE: THE ABOVE RIP-RAP DIMENSIONS ARE A MINIMUM. SEE PLAN FOR LOCATIONS REQUIRING ADDITIONAL RIP-RAP.







PERMANENT ROCK CHECK DAM

SCALE: NONE

REFERENCE SHEETS

COVER SHEET	E-1211
SITE SURVEY	E-1203
SITE SURVEY	E-1204
GRADING PLAN	E-1212
SITE LAYOUT PLAN	E-1213
GRADING PLAN	E-1214
GRADING SECTION VIEWS	E-1215
EROSION & SEDIMENT CONTROL PLAN	E-1216

PETER J. SIGLER REGISTERED No. PE10708377 STATE OF INDIANA PROFESSIONAL ENGINEER

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OLD DWG #: STD DWG #:

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138/69/34.5/12KV

EROSION & SEDIMENT CONTROL DETAILS

SCALE: AS NOTED	DR: NEB	ENG: TWC	CH: PMC
AMERICAN ELECTRIC POWER	WO#: 42790639	APPD: PJS	DATE: 1/15/2020
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. NO. E-1217	REV. 0	

NO.	DATE	REVISION DESCRIPTION	APPR.	DR.	ENG.	CK.	ISSUE#

STATION ENGINEERING

PLOTTED BY NOAH BOYD ON 15-07-2020 AT 15:03

AEP G (30 X 46)

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