

150 E. GAY STREET, 24TH FLOOR COLUMBUS, OH 43215-3192 TELEPHONE: (614) 744-2936 FACSIMILE: (844) 670-6009 http://www.dickinsonwright.com

WILLIAM V. VORYS
WVorys@dickinsonwright.com

January 8, 2017

Ms. Barcy F. McNeal, Secretary Ohio Power Siting Board Docketing Division 180 East Broad Street, 11th Floor Columbus, Ohio 43215

Re: Case Nos. 09-479-EL-BGN, 11-3446-EL-BGA, 16-469-EL-BGA, and 16-2404-EL-BGA

In the Matter of the Application of Hardin Wind Energy LLC for a Certificate of Environmental Compatibility and Public Need for the Hardin Wind Farm.

Notice of Compliance with Certificate Condition #57—Issued for Construction

Drawings for Substation and Point of Interconnection

Dear Ms. McNeal:

Hardin Wind Energy LLC ("Applicant") is certified to construct a wind-powered electric generation facility in Hardin County, Ohio, in accordance with the orders issued by the Ohio Power Siting Board ("OPSB") in the above-referenced cases.

The Applicant is providing this letter to notify the OPSB that the Applicant has provided the attached Issued for Construction drawings for the Hardin Wind Substation and Point of Interconnection in accordance with Condition 57 of the OPSB's order in Case No. 09-479-EL-BGN.

We are available to answer any questions you may have.

Respectfully submitted,

/s/William V. Vorys

William V. Vorys (0093479) Christine M.T. Pirik (0029759) Dickinson Wright PLLC 150 East Gay Street, Suite 2400 Columbus, Ohio 43215

Phone: (614) 744-2936

Email: wvorys@dickinsonwright.com cpirik@dickinsonwright.com

Attorneys for Hardin Wind Energy LLC

Enclosures

COLUMBUS 39579-20 82049v3

ARIZONA FLORIDA KENTUCKY MICHIGAN NEVADA

Issued For Construction

OCTOBER 04, 2017



DRAWING NO.	<u>REV.</u>	ISSUE DATE	DRAWING TITLE
E-1304	0	10/04/17	SITE DIMENSION PLAN; OVERALL STATION LAYOUT
E-1305	0	10/04/17	SITE DIMENSION PLAN; OVERALL ACCESS ROAD
E-1306	0	10/04/17	SITE DIMENSION PLAN; SWITCH STATION LAYOUT
E-1307	0	10/04/17	SITE GRADING PLAN; COLLECTION SUBSTATION LAYOUT
E-1308	0	10/04/17	SITE GRADING PLAN; OVERALL STATION LAYOUT
E-1309	0	10/04/17	SITE GRADING PLAN; MAIN ACCESS ROAD
E-1310	0	10/04/17	SITE GRADING PLAN; SWITCH STATION LAYOUT
E-1311	0	10/04/17	SITE GRADING PLAN; COLLECTION SUBSTATION LAYOUT
E-1312	0	10/04/17	SITE GRADING PLAN; DETENTION POND
E-1313	0	10/04/17	SITE GRADING SECTIONS; ACCESS ROADS
E-1314	0	10/04/17	SITE GRADING SECTIONS; SWITCH STATION
E-1315	0	10/04/17	SITE GRADING SECTIONS; COLLECTION SUBSTATION
E-1316	0	10/04/17	SITE GRADING SECTIONS; DETENTION POND & LANDOWNER PONDS
E-1317	0	10/04/17	GRADING DETAILS; CIVIL DETAILS
E-1318	0	10/04/17	GRADING DETAILS; EROSION MATTING DETAILS
E-1319	0	10/04/17	PROPERTY PLAT; LEGAL DESCRIPTION
E-3380	0	10/04/17	FENCE & SIGN DETAILS; SIGN LOCATION PLAN & ELEVATION
E-3381	0	10/04/17	SIGN STANDARD; DANGER, STICK FIGURE, COPPER-CLAD, STATION, AEP OHIO, PHASE MARKERS

REFERENCE DRAWINGS (FOR REFERENCE ONLY - NOT FOR CONSTRUCTION)

DRAWING NO.	REV.	ISSUE DATE	DRAWING TITLE
E-1300	0P	10/04/17	ONE LINE DIAGRAM
E-2301	0A	10/04/17	ELECTRICAL ASSENBLY; GENERAL ARRANGEMENT
E-3371	0A	10/04/17	MANUFACTURER'S DRAWING; TRENCH PLAN & DETAILS

STANDARD DRAWINGS

DRAWING NO.	REV.	ISSUE DATE	DRAWING TITLE
1LPX001U SH.A	12	10/26/15	FENCE DETAILS; 8'-0" HIGH FENCE, GATES, DRIVE IN GATE HINGE, GATE LATCH, GATE STOP
RCBXURSH I	NΛ	12/06/16	CROLINDING DETAILS: EENCE DETAILS

HARDIN SWITCH STATION

13699 TOWNSHIP ROAD 65 BELLE CENTER, OH 43310-9636

LAT: 40.63236087°

LONG: -83.79310263°

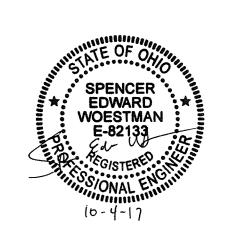
SITE GRADING - FENCING PACKAGE

GENERAL CONSTRUCTION W.O. # 42190512 **PVID: 36671** BPID # P09106001

PROJECT MANAGER: MARK BUELTMANN PROJECT LEAD: SETH OSWALD

KATE McDEVITT (406) 259-9933

GILBERTO ORTEGA (602)997-9933





KENTON **COVER SHEET** SITE GRADING - FENCING PACKAGE WO#: 42190512C1 1 RIVERSIDE PLAZA COLUMBUS, OH 43215 NO. COVE

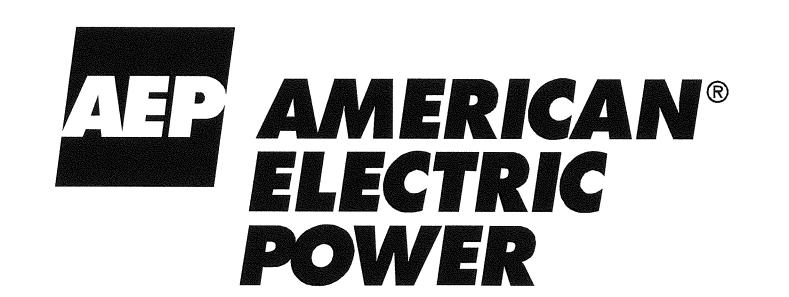
NO DATE

REVISION DESCRIPTION

APPR DR ENG CK ISSUE#

L:\EPC Services\EPCS INVENERGY - HARDIN SWYD\CADD\Working\Civil\SITE-GRADING COVER SHEET.DGN

HARDIN SWITCH STATION



STATION ADDRESS: 13699 TOWNSHIP ROAD 65

BELLE CENTER, OH 43310-9636

LAT: 40.63236087°

LONG: -83.79310263°

DRAWING STATUS ISSUE: Issued for Construction

ISSUE TYPE: Site Grading - Fencing

GENERAL CONSTRUCTION W.O. 42190512 PVID: 36671 BPID # P09106001

NOTES:

PROJECTS THAT ARE ENGINEERED BY AN OEC:

1) FOR PHYSICAL DETAILED DESIGN ISSUES, CONTACT THE OEC STATION LEAD, COPY THE AEP SE LEAD.

2) FOR P&C DETAILED DESIGN ISSUES, CONTACT THE OEC P&C LEAD, COPY THE AEP PCE & SE LEADS.

3) FOR OTHER ISSUES THAT IMPACT COST OR SCHEDULE,

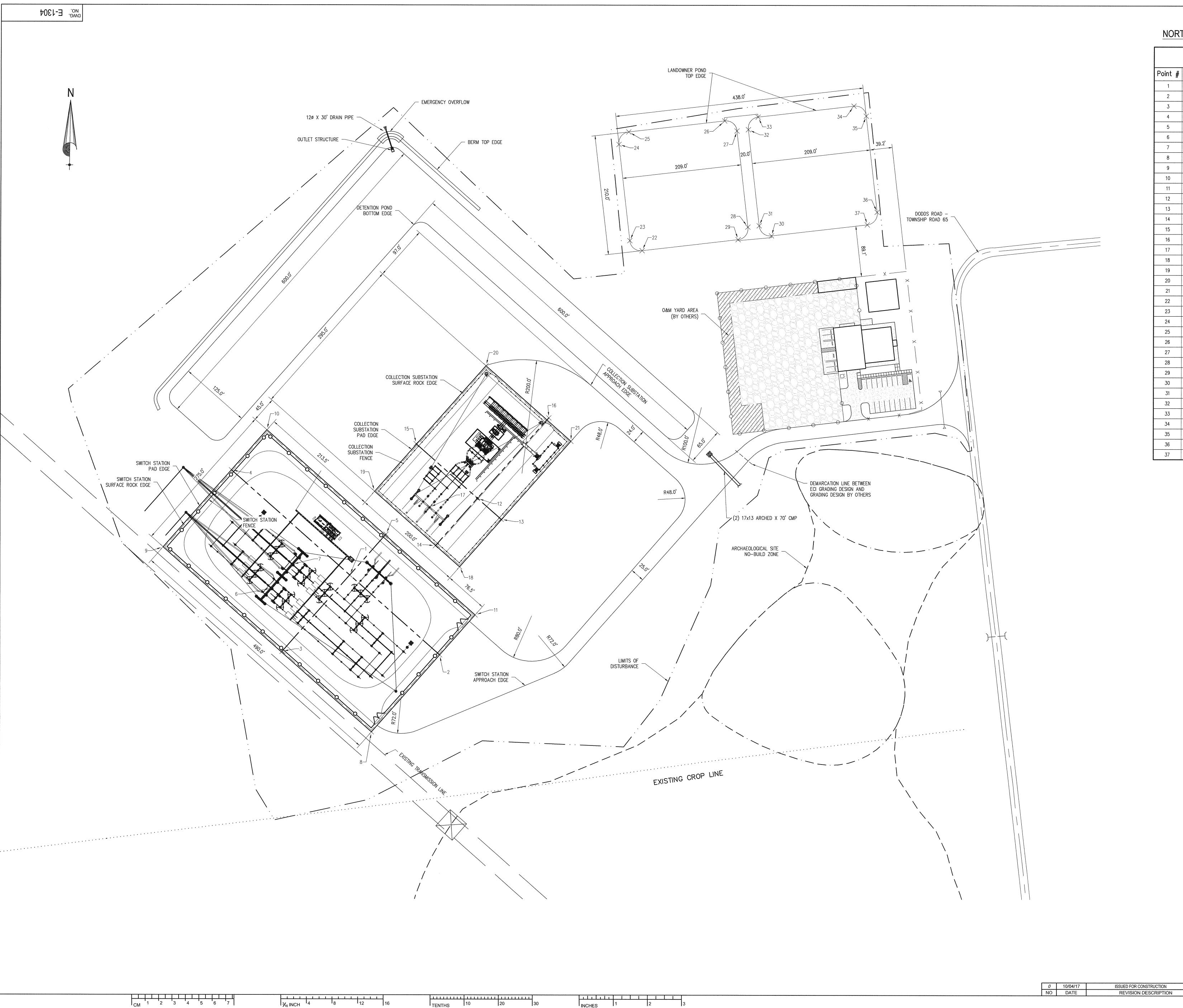
CONTACT THE AEP PROJECT MANAGER, COPY THE AEP SE LEAD.

	OUTSOURCE ENGINEERING COMPANY (OEC) NAME	NAME	WORK PHONE	CELL PHONE	EMAIL
OEC PROJECT MANAGER	ELECTRICAL CONSULTANTS, INC.	VINCE KOPRIVA	(602) 997-9933	(480) 261-3221	VINCE.KOPRIVA@ECIPHX.COM
OEC STATION LEAD	ELECTRICAL CONSULTANTS, INC.	GILBERTO ORTEGA	(602) 997-9933	(480) 316-2243	GILBERTO.ORTEGA@ECIPHX.COM
OEC P&C LEAD	ELECTRICAL CONSULTANTS, INC.	GILBERTO ORTEGA	(602) 997-9933	(480) 316-2243	GILBERTO.ORTEGA@ECIPHX.COM
OEC CIVIL LEAD	ELECTRICAL CONSULTANTS, INC.	KATE McDEVITT	(406) 869-2141	(406) 672-2295	KATE.MCDEVITT@ECIBLGS.COM
OEC STATION DESIGNER	ELECTRICAL CONSULTANTS, INC.	DREW DAVIS	(602) 997-9933	(937) 707-4102	DREW.DAVIS@ECIPHX.COM
OEC P&C DESIGNER	ELECTRICAL CONSULTANTS, INC.	PAM FOUT	(602) 997-9933	N/A	PAMELA.FOUT@ECIPHX.COM



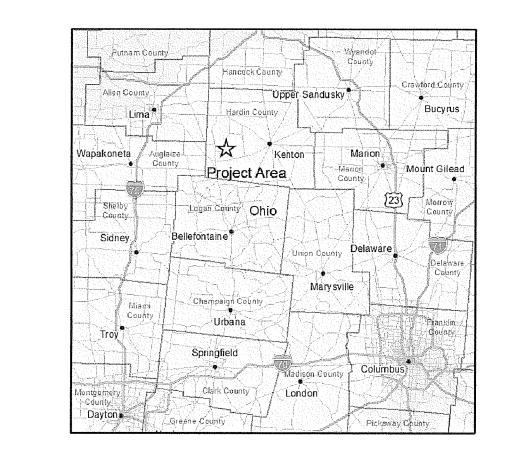
	COMPANY NAME	NAME	WORK PHONE	CELL PHONE	EMAIL
PROJECT MANAGER	AEP	MARK BUELTMANN	(614) 552-1609	N/A	MTBUELTMANN@AEP.COM
STATION ENGINEERING (SE) LEAD	AEP	SETH OSWALD	(614) 552-2144	(614) 286-6619	SMOSWALD@AEP.COM
PROTECTION & CONTROL ENGINEERING (PCE) LEAD	AEP	TYLER BERTON	(614) 552-1724	N/A	TJBERTON@AEP.COM
CIVIL ENGINEERING LEAD	AEP	MATT PANZITTA	(614) 552-1197	(614) 284-9786	MJPANZITTA@AEP.COM
SCADA LEAD	AEP	N/A			
TELECOM LEAD	EASi	BRIAN M. MASON	(614) 552-3050	N/A	BMMASON@AEP.COM
T-LINE LEAD	AEP	RICK OLESKY	(614) 552-1181	N/A	RROLESKY@AEP.COM
TCR					

CONTACT SHEET



NORTHING/EASTING POINT TABLE

Point Table				
Point #	Description	Easting	Northing	
1	AXIS LINE INTERSECTION	1609634.50	354386.29	
2	AXIS LINE END	1609792.88	354246.12	
3	AXIS LINE END	1609515.60	354251.95	
4	AXIS LINE END	1609425.95	354570.87	
5	AXIS LINE END	1609698.03	354458.07	
6	CENTER OF DEAD END	1609496.36	354362.98	
7	CENTER OF DEAD END	1609533.47	354404.92	
8	YARD PAD CORNER	1609672.92	354110.57	
9	YARD PAD CORNER	1609305.99	354435.32	
10	YARD PAD CORNER	1609488.25	354641.25	
11	YARD PAD CORNER	1609855.18	354316.50	
12	BASELINE INTERSECTION	1609858.97	354521.47	
13	BASELINE END	1609900.61	354484.62	
14	BASELINE END	1609785.00	354437.89	
15	BASELINE END	1609750.78	354617.22	
16	BASELINE END	1609984.23	354663.00	
17	CENTER OF DEAD END	1609774.58	354505.33	
18	YARD PAD CORNER	1609827.71	354400.90	
19	YARD PAD CORNER	1609677.95	354533.45	
20	YARD PAD CORNER	1609873.46	354754.36	
21	YARD PAD CORNER	1610023.23	354621.81	
22	EDGE OF LANDOWNER POND	1610147.59	354957.22	
23	EDGE OF LANDOWNER POND	1610125.92	354974.84	
24	EDGE OF LANDOWNER POND	1610106.34	355143.71	
25	EDGE OF LANDOWNER POND	1610123.41	355165.82	
26	EDGE OF LANDOWNER POND	1610292.27	355185.40	
27	EDGE OF LANDOWNER POND	1610313.95	355167.78	
28	EDGE OF LANDOWNER POND	1610333.53	354998.91	
29	EDGE OF LANDOWNER POND	1610316.46	354976.80	
30	EDGE OF LANDOWNER POND	1610375.07	354983.60	
31	EDGE OF LANDOWNER POND	1610353.39	355001.22	
32	EDGE OF LANDOWNER POND	1610333.81	355170.09	
33	EDGE OF LANDOWNER POND	1610350.88	355192.20	
34	EDGE OF LANDOWNER POND	1610519.75	355211.78	
35	EDGE OF LANDOWNER POND	1610541.42	355194.16	
36	EDGE OF LANDOWNER POND	1610561.00	355025.29	
37	EDGE OF LANDOWNER POND	1610543.94	355003.17	



LEGEND:

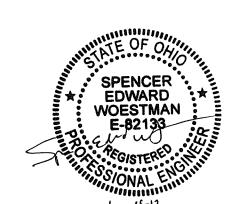
*************************************	SUBSTATION FENCE
	AXIS LINE/BASELINE
-	SWITCH STATION FENCE

GENERAL NOTES:

FOR GENERAL NOTES SEE SHEET E-1308
 COORDINATES ARE NAD83 OHIO STATE PLANE, NORTH ZONE, US FOOT.

REFERENCE DRAWINGS:

	SITE DIMENSION PLAN; OVERALL ACCESS ROAD SITE DIMENSION PLAN; SWITCH STATION LAYOUT SITE DIMENSION PLAN; COLLECTION SUBSTATION LAYOUT SITE GRADING PLAN; OVERALL STATION LAYOUT SITE GRADING PLAN; MAIN ACCESS ROAD SITE GRADING PLAN; SWITCH STATION LAYOUT SITE GRADING PLAN; COLLECTION SUBSTATION LAYOUT SITE GRADING SECTIONS; ACCESS ROADS SITE GRADING SECTIONS; SWITCH STATION SITE GRADING SECTIONS; COLLECTION SUBSTATION SITE GRADING SECTIONS; COLLECTION SUBSTATION SITE GRADING SECTIONS; DETENTION POND GRADING DETAILS-CIVIL DETAILS GRADING DETAILS-EROSION MATTING DETAILS	E-1307 E-1308 E-1309 E-1310 E-1311 E-1312 E-1313 E-1314 E-1315 E-1316 E-1317 E-1318
(



KENTON



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SITE DIMENSION PLAN

OVERALL STATION LAYOUT

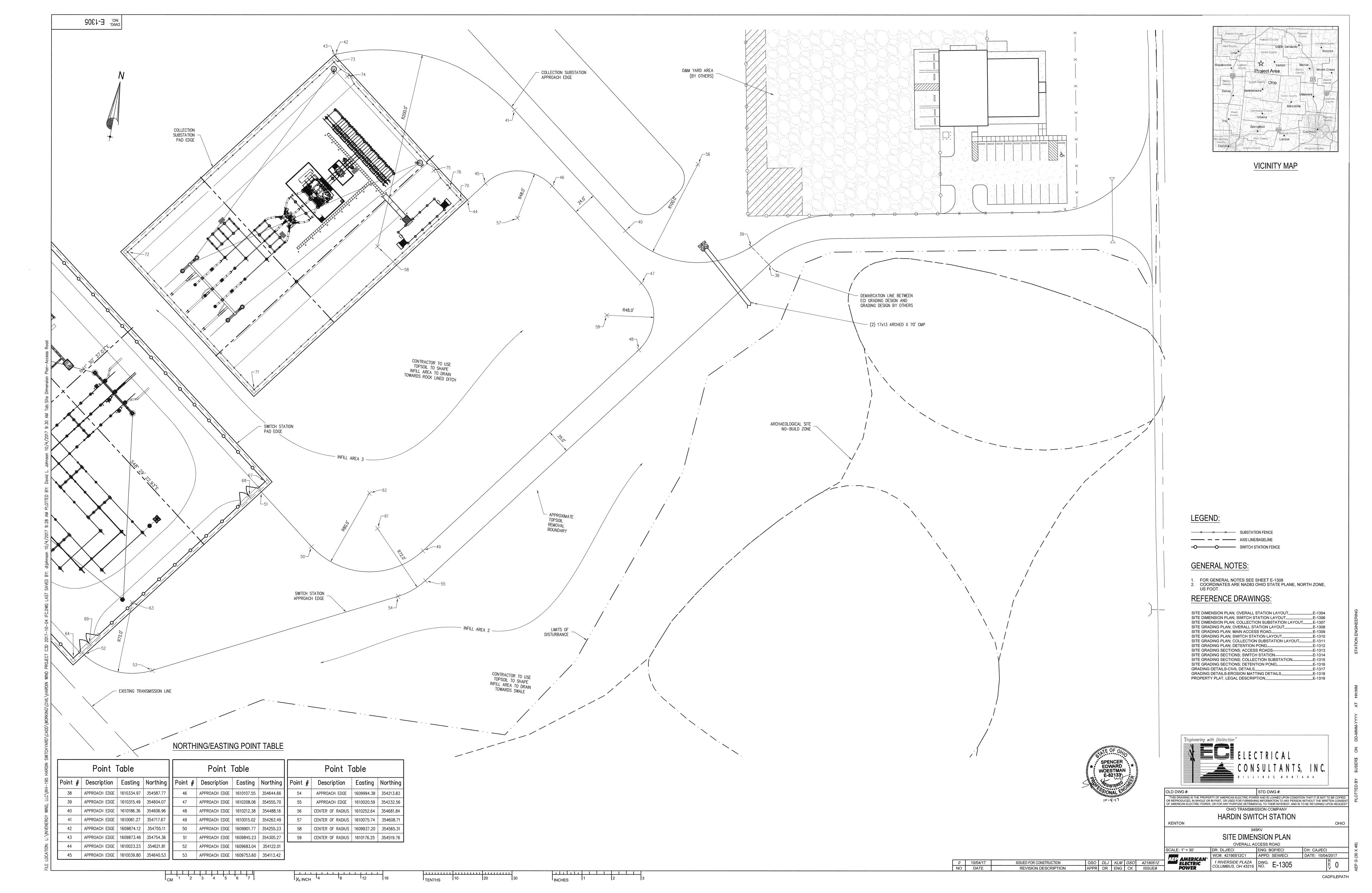
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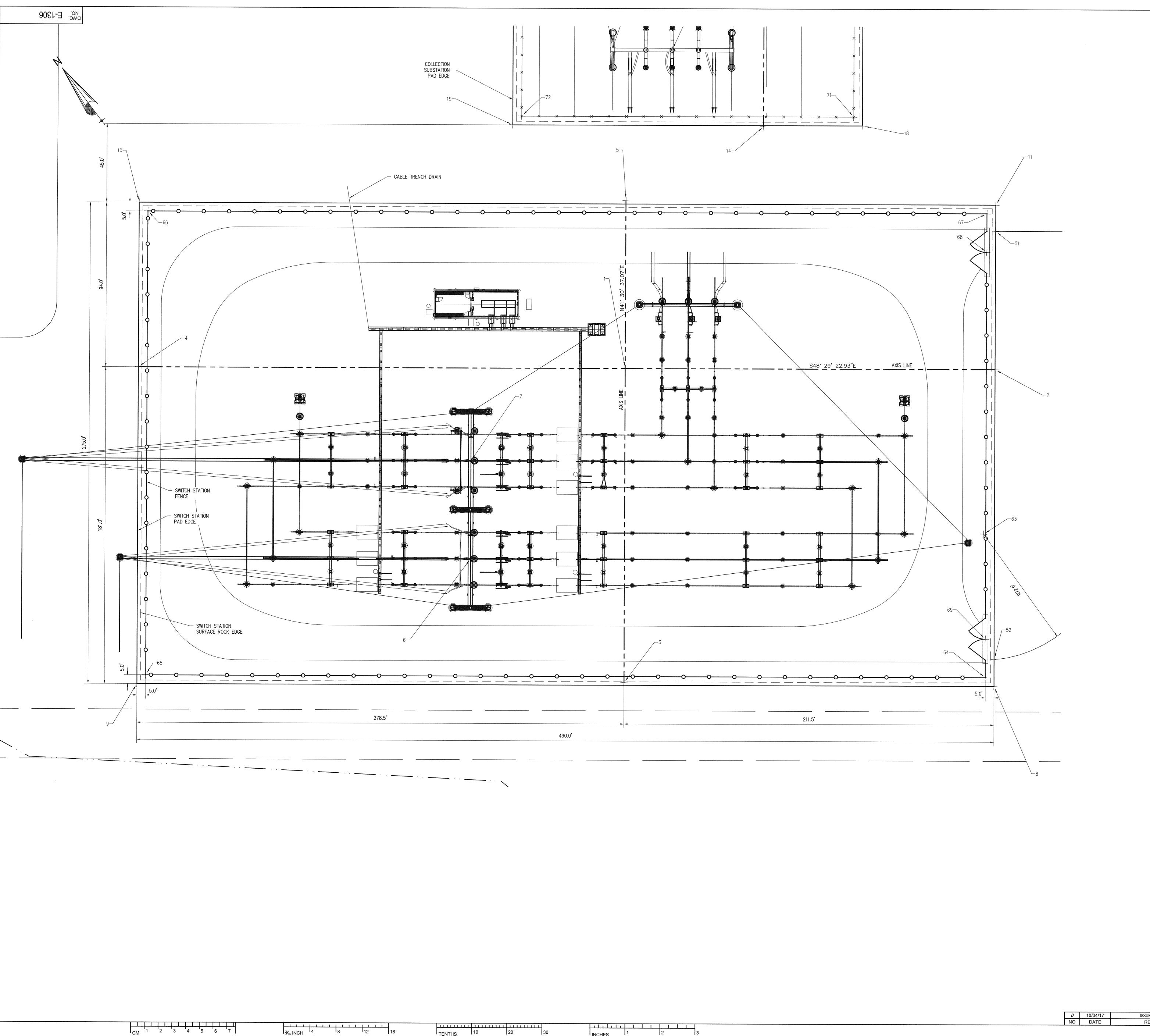
WO#: 42190512C1 APPD: SEW/ECI DATE: 10/04/2017

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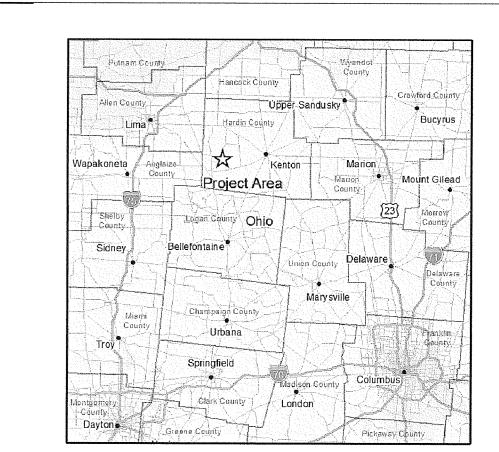
APPR DR ENG CK ISSUE#





NORTHING/EASTING POINT TABLE

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8	YARD PAD CORNER	1609672.92	354110.57	
9	YARD PAD CORNER	1609305.99	354435.32	
10	YARD PAD CORNER	1609488.25	354641.25	
64	SWITCH STATION FENCE CORNER	1609672.49	354117.63	
65	SWITCH STATION FENCE CORNER	1609313.05	354435.75	
66	SWITCH STATION FENCE CORNER	1609488.68	354634.19	
67	SWITCH STATION FENCE CORNER	1609848.12	354316.07	
68	SWITCH STATION GATE CENTER	1609833.54	354299.60	
69	SWITCH STATION GATE CENTER	1609687.07	354134.10	



VICINITY MAP

LEGEND:

SUBSTATION FENCE

AXIS LINE/BASELINE

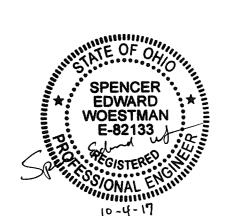
SWITCH STATION FENCE

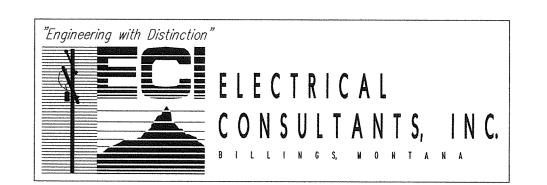
GENERAL NOTES:

 FOR GENERAL NOTES SEE SHEET E-1308
 COORDINATES ARE NAD83 OHIO STATE PLANE, NORTH ZONE, US FOOT.

REFERENCE DRAWINGS:

SITE DIMENSION PLAN; OVERALL STATION LAYOUTSITE DIMENSION PLAN; OVERALL ACCESS ROADSITE DIMENSION PLAN; COLLECTION SUBSTATION LAYOUTSITE GRADING PLAN; MAIN ACCESS ROADSITE GRADING PLAN; SWITCH STATION LAYOUTSITE GRADING PLAN; COLLECTION SUBSTATION LAYOUTSITE GRADING PLAN; DETENTION PONDSITE GRADING SECTIONS; ACCESS ROADS	E-1305 E-1307 E-1308 E-1309 E-1310 E-1311 E-1312
SITE GRADING SECTIONS; SWITCH STATION SITE GRADING SECTIONS; COLLECTION SUBSTATION SITE GRADING SECTIONS; DETENTION POND GRADING DETAILS-CIVIL DETAILS GRADING DETAILS-EROSION MATTING DETAILS PROPERTY PLAT, LEGAL DESCRIPTION	——E-1314 ——E-1315 ——E-1316 ——E-1317





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OHIO TRANSMISSION COMPANY

HARDIN SWITCH STATION

| SCALE: 1" = 20' | DR: DLJ/ECI | ENG: BGP/ECI | DATE: 10/04/2017

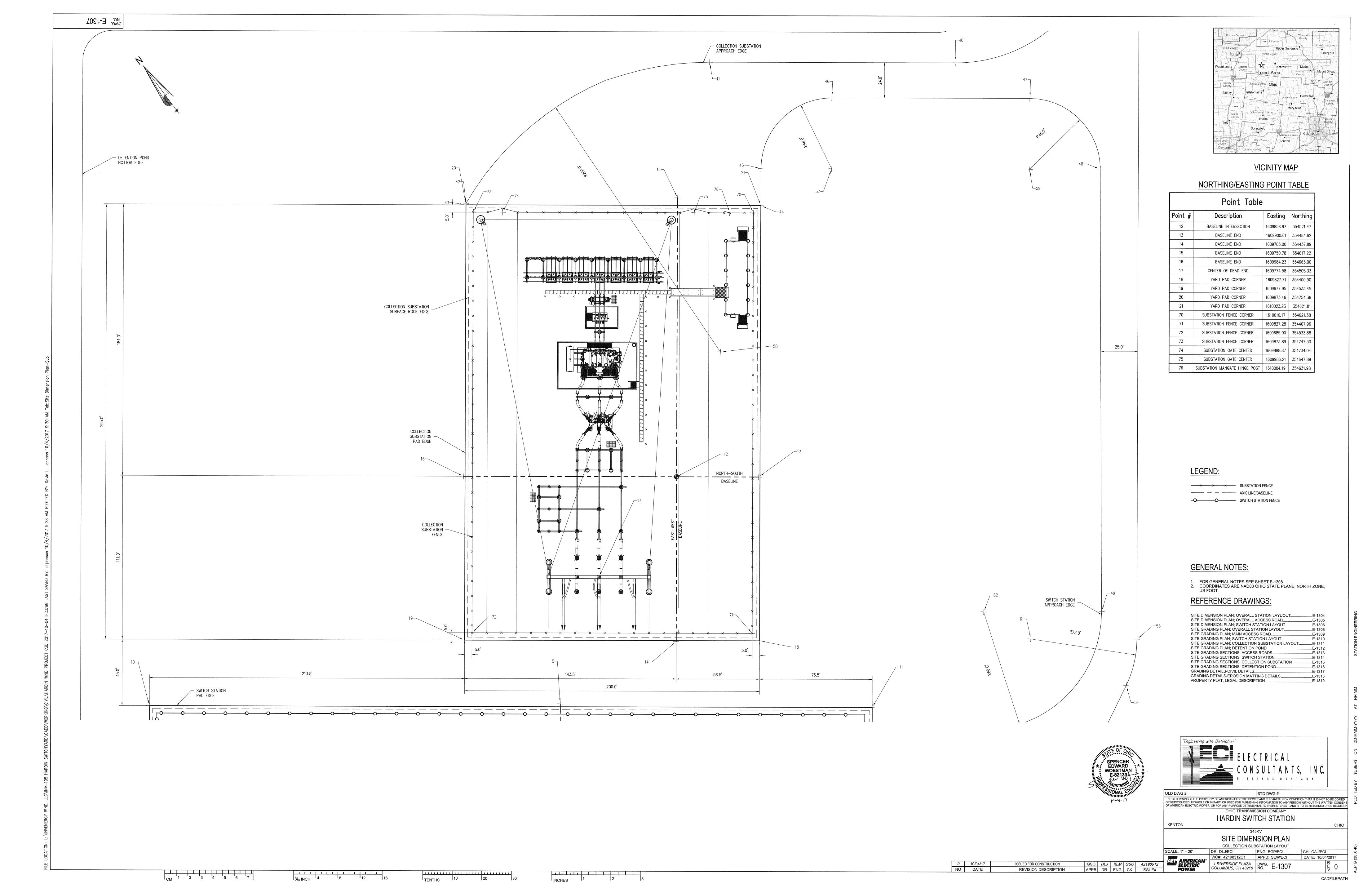
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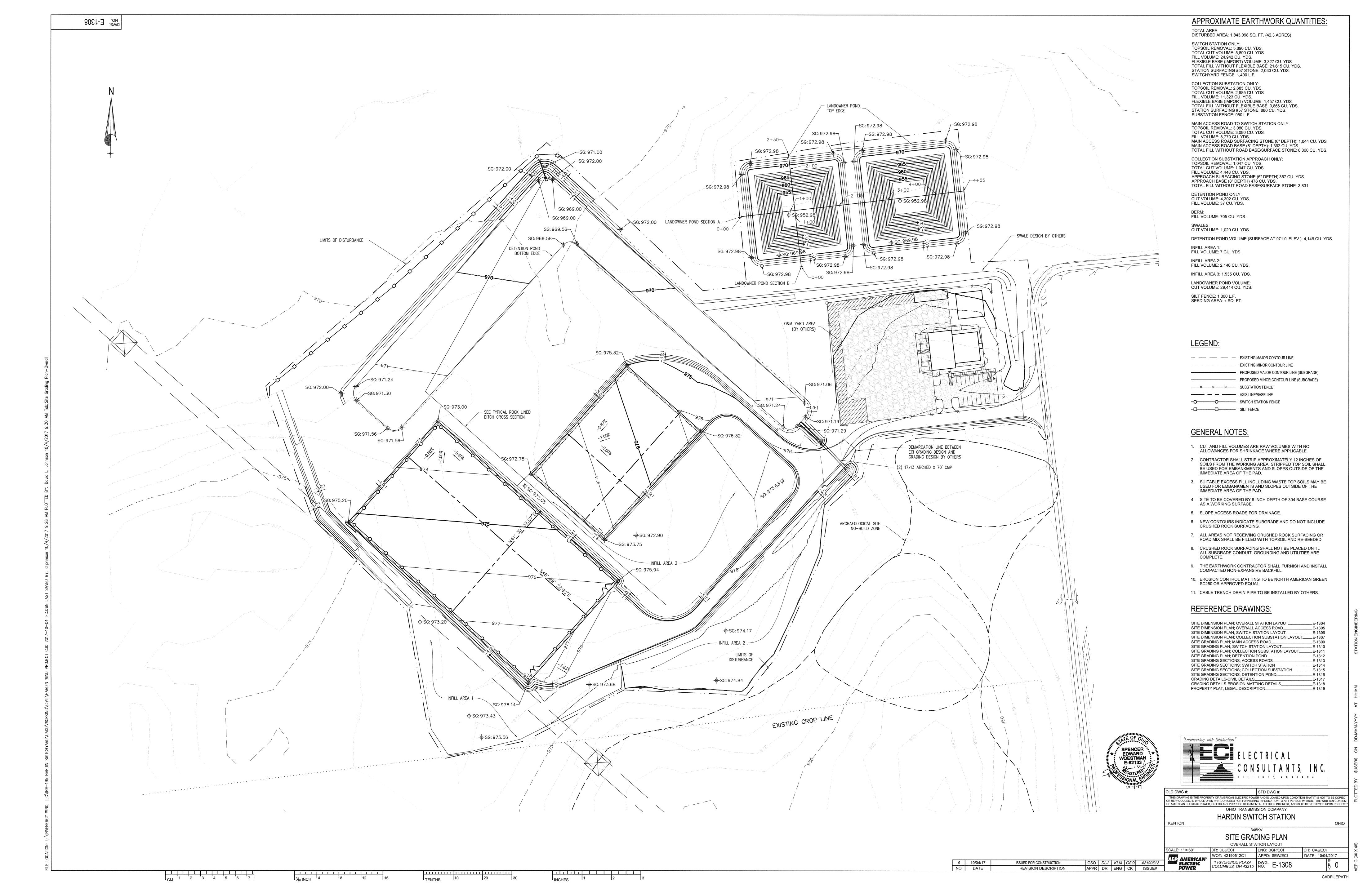
AFP AMERICAN*
ELECTRIC
POWER

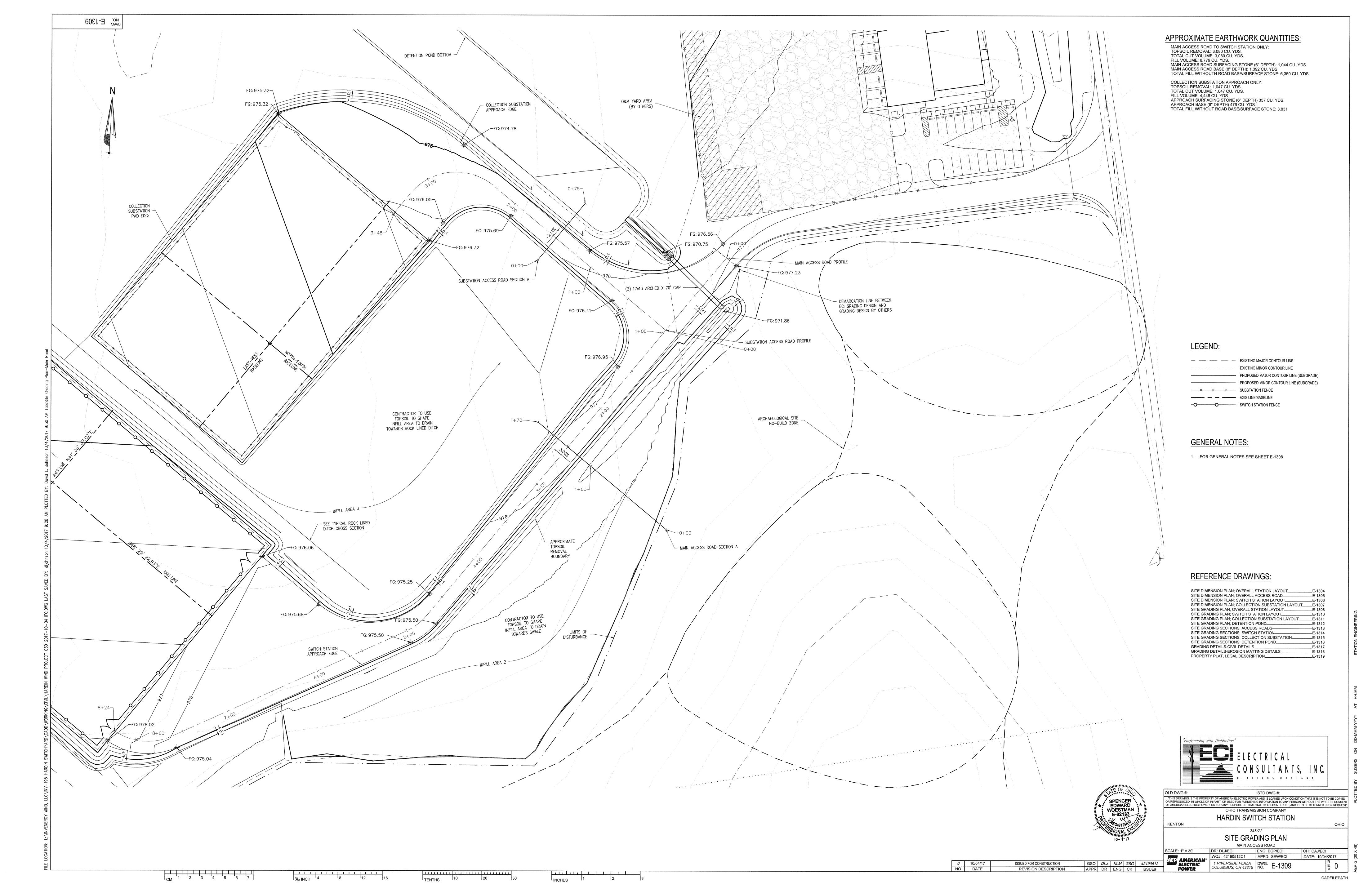
DR: DLJ/ECI ENG: BGP/ECI CH: CAJ/E

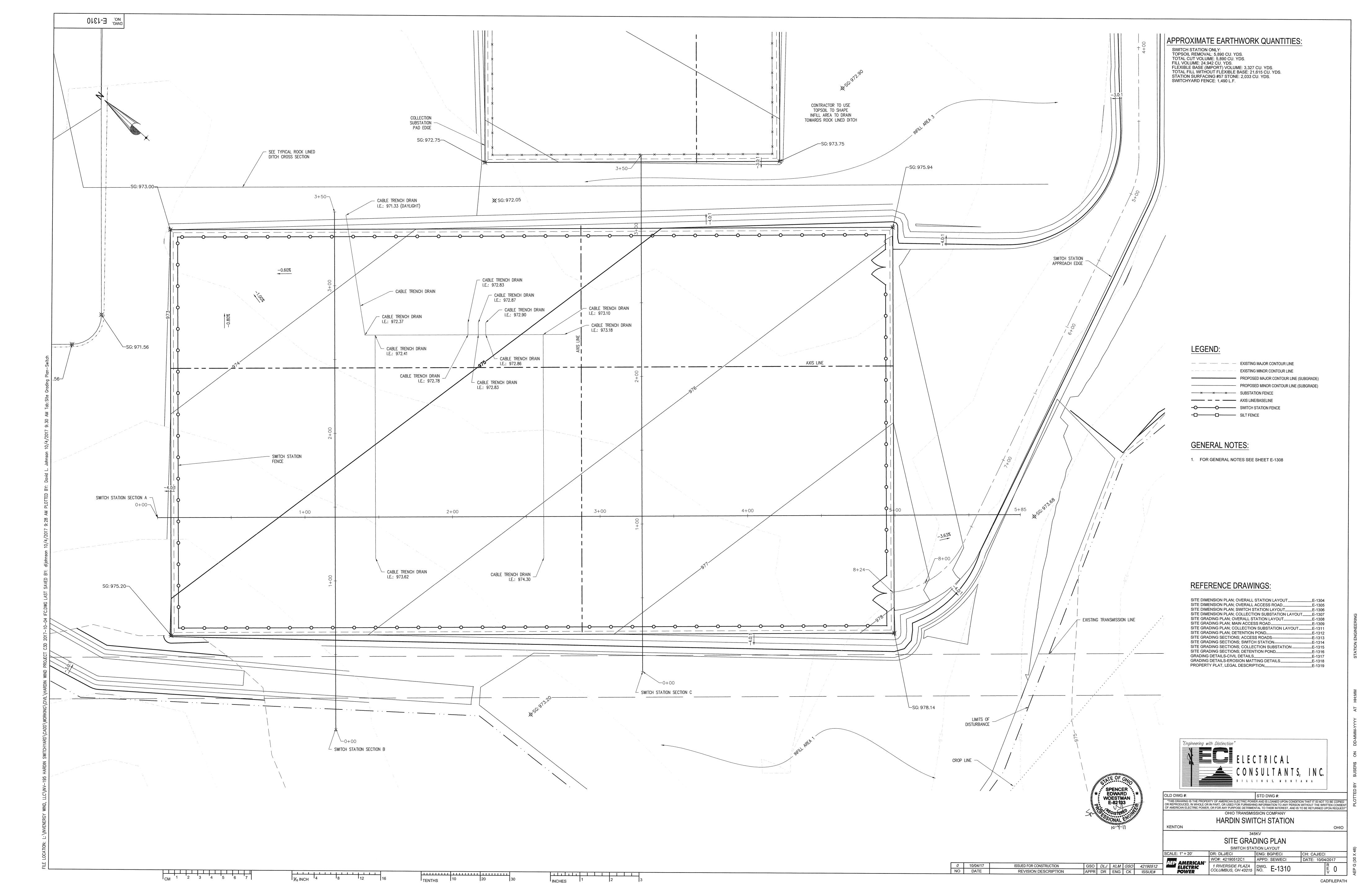
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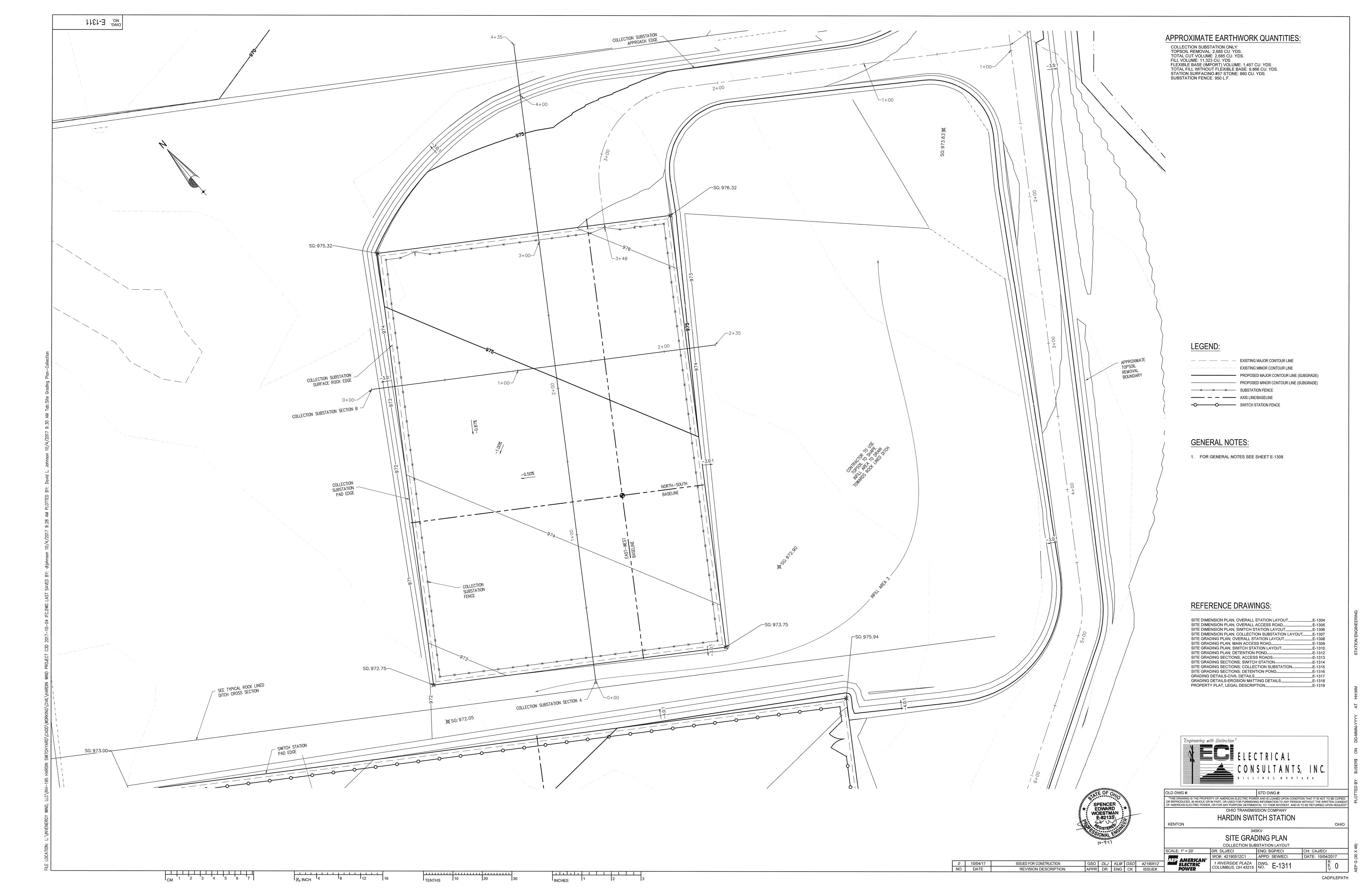
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215 NO. E-1306

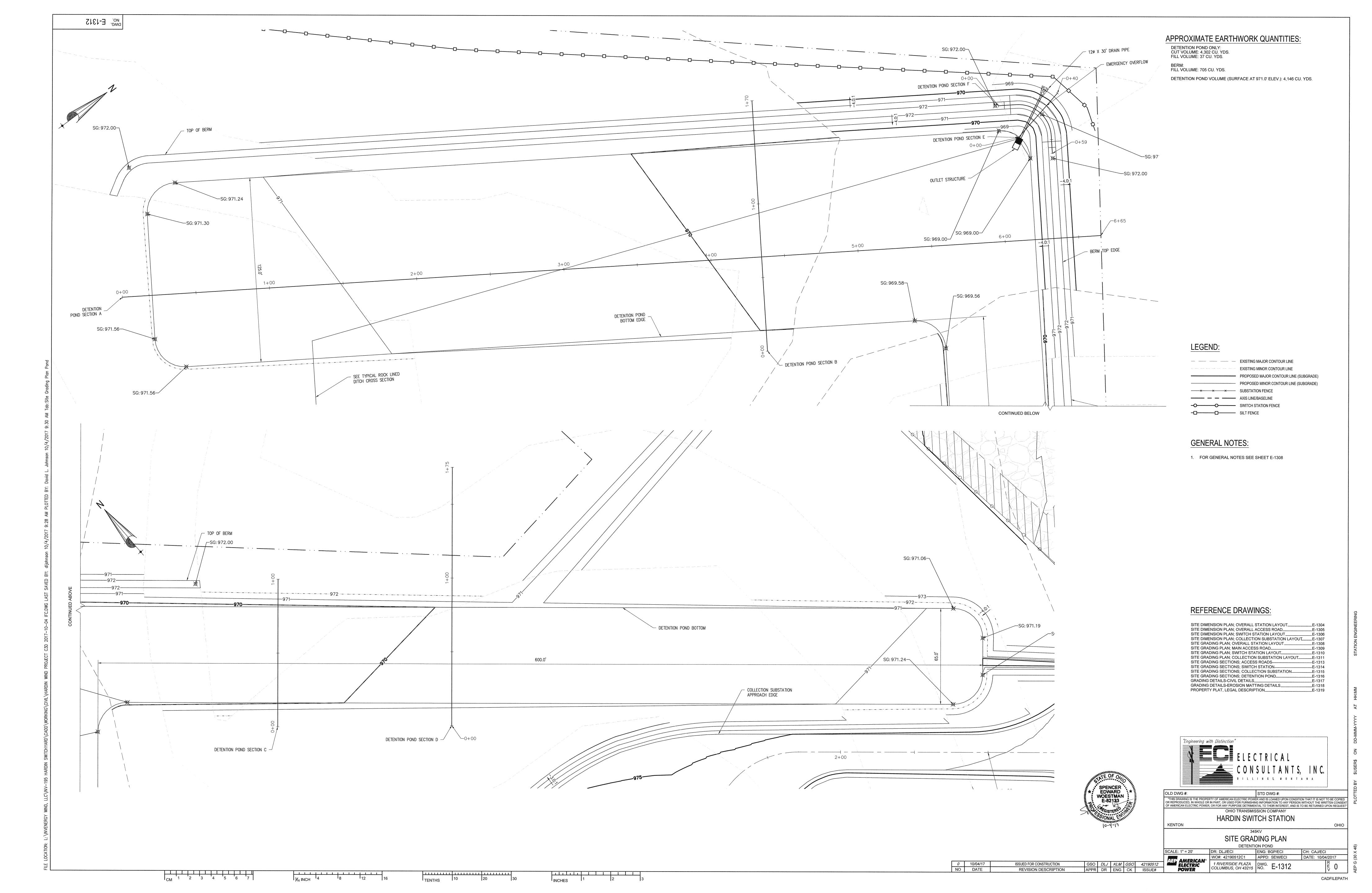


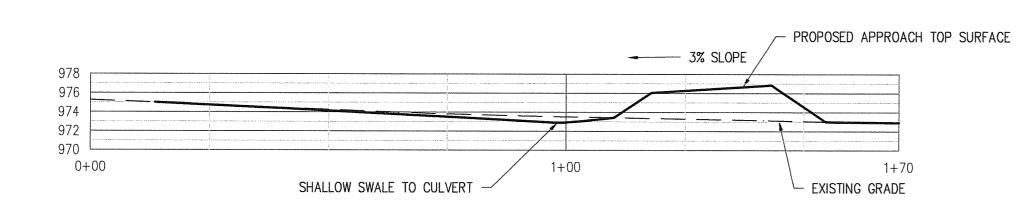




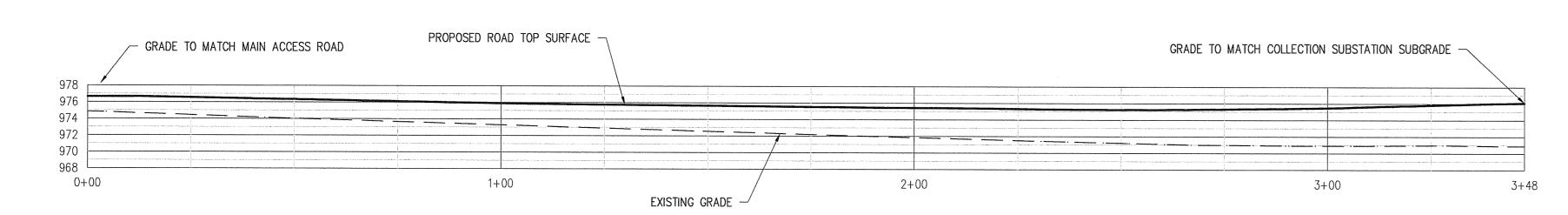




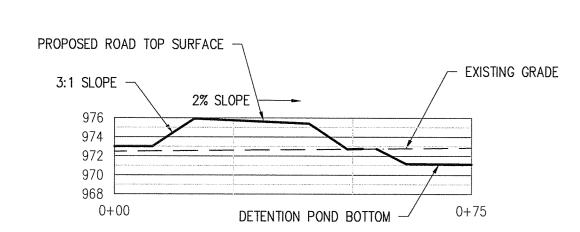




MAIN ACCESS ROAD SECTION A SCALE: 1" = 20' HORIZONTAL 1" = 10' VERTICAL



SUBSTATION ACCESS ROAD PROFILE SCALE: 1" = 20' HORIZONTAL 1" = 10' VERTICAL



SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

CM 1 2 3 4 5 6 7

LEGEND:

— — — EXISTING GRADE

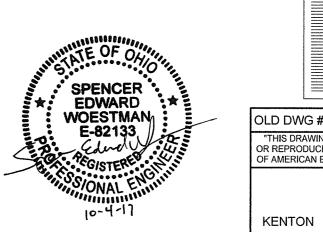
PROPOSED FINISH GRADE

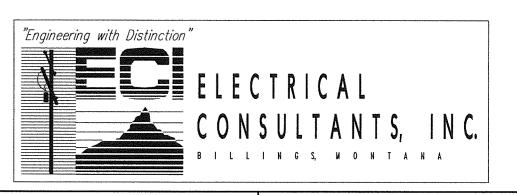
GENERAL NOTES:

1. FOR GENERAL NOTES SEE SHEET E-1308

REFERENCE DRAWINGS:

SITE DIMENSION PLAN; OVERALL STATION LAYOUT	_E-1307 _E-1308 _E-1309
SITE GRADING PLAN; SWITCH STATION LAYOUT SITE GRADING PLAN; COLLECTION SUBSTATION LAYOUT SITE GRADING PLAN; DETENTION POND SITE GRADING SECTIONS; SWITCH STATION SITE GRADING SECTIONS; COLLECTION SUBSTATION SITE GRADING SECTIONS; DETENTION POND GRADING DETAILS-CIVIL DETAILS GRADING DETAILS-EROSION MATTING DETAILS PROPERTY PLAT, LEGAL DESCRIPTION	_E-1311 _E-1312 _E-1314 _E-1315





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OHIO TRANSMISSION COMPANY

HARDIN SWITCH STATION

345KV
SITE GRADING SECTIONS
ACCESS ROADS

STIE GRADING SECTIONS

ACCESS ROADS

SCALE: AS NOTED DR: DLJ/ECI ENG: BGP/ECI CH: CAJ/ECI
WO#: 42190512C1 APPD: SEW/ECI DATE: 10/04/2017

1 RIVERSIDE PLAZA COLUMBUS, OH 43215 NO. E-1313

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 10/04/17
 ISSUED FOR CONSTRUCTION
 GSO
 DLJ
 KLM
 GSO
 42190512

 NO
 DATE
 REVISION DESCRIPTION
 APPR
 DR
 ENG
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 ISSUE#

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%₆ INCH 4 8 12 16 TENTHS 10 20 30 INCHES 1

CADFILEPATH

EXISTING GRADE —

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

— — — EXISTING GRADE

GENERAL NOTES:

1. FOR GENERAL NOTES SEE SHEET E-1308

REFERENCE DRAWINGS:

SITE DIMENSION PLAN; OVERALL STATION LAYOUT	E-1305 E-1306 E-1307 E-1308 E-1309 E-1310 E-1311 E-1312 E-1313 E-1315
SITE GRADING SECTIONS; COLLECTION SUBSTATION	E-1316 E-1317





OLD DWG #:		STD DWG #:	
OR REPRODUCED, IN WHOLE OR I	IN PART, OR USED FOR FURNISHIN		ON THAT IT IS NOT TO BE COPIED WITHOUT THE WRITTEN CONSENT O BE RETURNED UPON REQUEST"
	OHIO TRANSMIS	SION COMPANY	
	HARDIN SWIT	TCH STATION	
KENTON			OHIO
	345	5KV	
SITE GRADING SECTIONS			
SWITCH STATION			
SCALE: AS NOTED	DR: DLJ/ECI	ENG: BGP/ECI	CH: CAJ/ECI
	WO#: 42190512C1	APPD: SEW/ECI	DATE: 10/04/2017
ALE AMERICAN® ELECTRIC POWER	1 RIVERSIDE PLAZA COLUMBUS, OH 43215	DWG. E-1314	R E V

0 10/04/17 NO DATE

CADFILEPATH

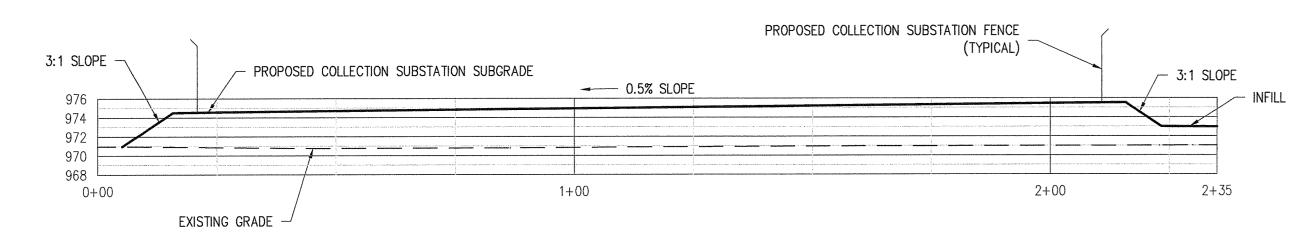
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INCHES 1 2 3

ISSUED FOR CONSTRUCTION
REVISION DESCRIPTION

COLLECTION SUBSTATION SECTION A

SCALE: 1" = 20' HORIZONTAL 1" = 10' VERTICAL



LEGEND:

--- --- EXISTING GRADE PROPOSED SUBGRADE

GENERAL NOTES:

1. FOR GENERAL NOTES SEE SHEET E-1308

REFERENCE DRAWINGS:

SITE DIMENSION PLAN; OVERALL STATION LAYOUT	E-1304
SITE DIMENSION PLAN; OVERALL ACCESS ROAD	E-1305
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SITE GRADING PLAN; MAIN ACCESS ROAD.	E-1309
SITE GRADING PLAN; SWITCH STATION LAYOUT	E-1310
SITE GRADING PLAN; COLLECTION SUBSTATION LAYOUT	E-1311
SITE GRADING PLAN; DETENTION POND	— E-1312
SITE GRADING SECTIONS; ACCESS ROADS	— E-1313
SITE GRADING SECTIONS; SWITCH STATION	E-1314
SITE GRADING SECTIONS; DETENTION POND	E-1316
GRADING DETAILS-CIVIL DETAILS	E-1317
GRADING DETAILS-EROSION MATTING DETAILS	E-1318
PROPERTY PLAT, LEGAL DESCRIPTION	E-1319





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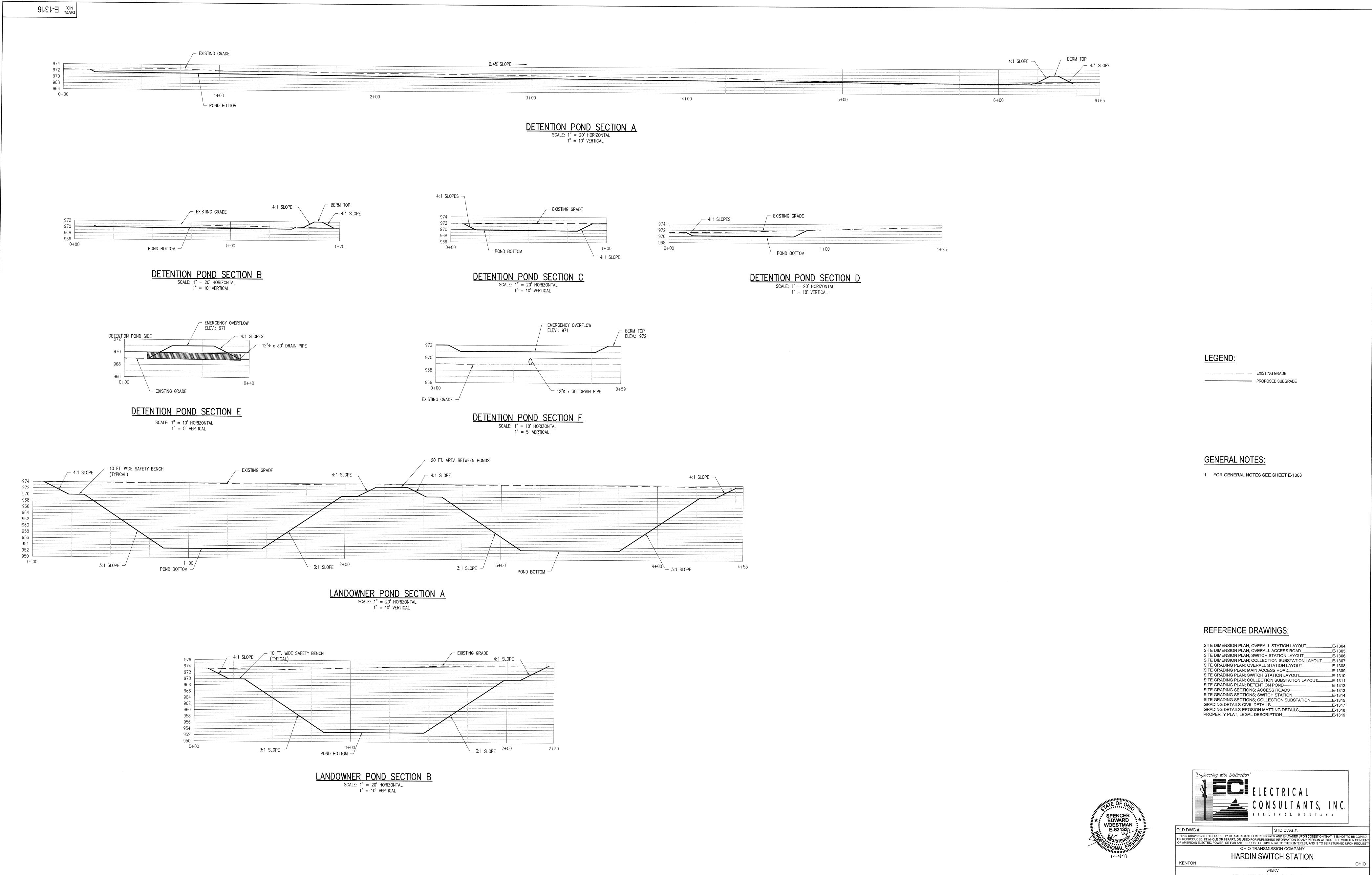
SITE GRADING SECTIONS

0 10/04/17 NO DATE

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REVISION DESCRIPTION

CM 1 2 3 4 5 6 7 ¾₆ INCH 4 8 12 16

CADFILEPATH



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ISSUED FOR CONSTRUCTION

0 10/04/17 NO DATE

GSO *DLJ KLM GSO 42190512*APPR DR ENG CK ISSUE#

SITE GRADING SECTIONS DETENTION POND AND LANDOWER PONDS SCALE: AS NOTED DR: DLJ/ECI ENG: BGP/ECI CH: CAJ/ECI

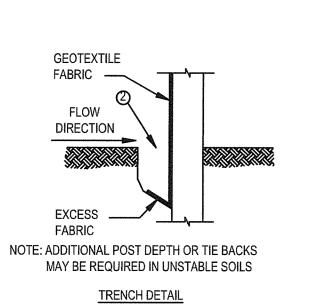
WO#: 42190512C1 APPD: SEW/ECI DATE: 10/04/2017

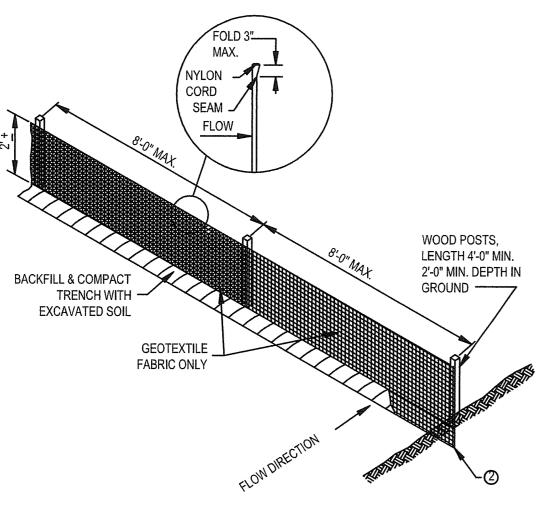
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ELECTRIC POWER

RECOLUMBUS, OH 43215

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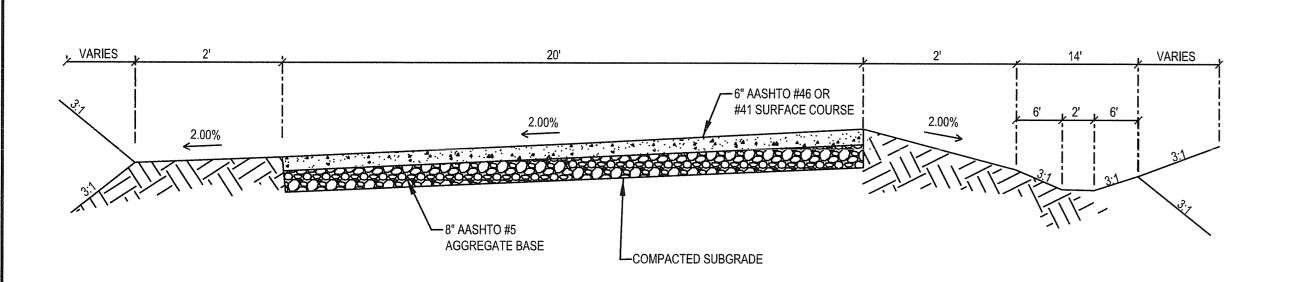
DETAIL OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1 HORIZONTAL BRACE WITH 2" x 4" WOODEN FRAME OR EQUIVALENT AT TOP OF

- ② TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" x 1 1/8" OF OAK OR HICKORY.

BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.

SILT FENCE DETAILS SCALE: N.T.S.

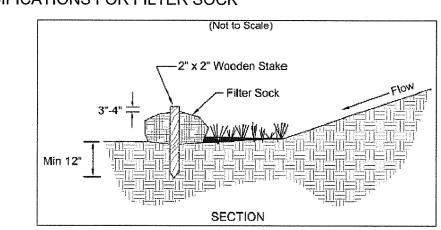


ACCESS ROAD TYPICAL SECTION SCALE: N.T.S.

DESCRIPTION

FILTER SOCKS ARE SEDIMENT-TRAPPPING DEVICES USING COMPOST INSERTED INTO A FLEXIBLE, PERMEABLE TUBE WITH A PNEUMATIC BLOWER DEVICE OR EQUIVALENT. FILTER SOCKS TRAP SEDIMENT BY FILTERING WATER PASSING THROUGH THE BERM AND ALLOWING WATER TO POND, CREATING A SETTLING OF

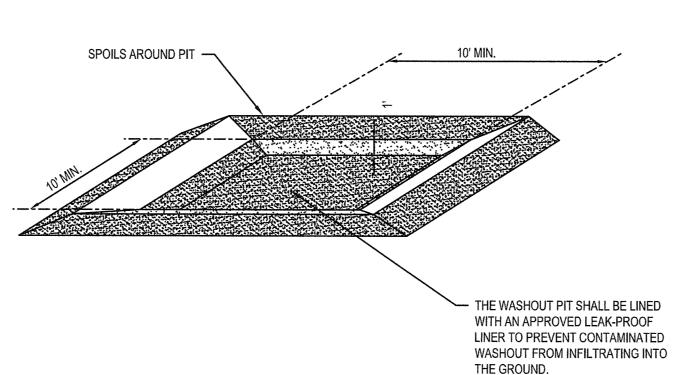
SPECIFICATIONS FOR FILTER SOCK



- 1. MATERIAL COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
- 2. FILTER SOCK SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
- INSTALLATION:
- 3. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
- 4. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
- 5. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
- MAINTENANCE:
- 6. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- 7. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT.
- 8. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- 9. REMOVAL- FILTER SOCKS WILL BE REMOVED WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDLINGS.

FILTER SOCK REQUIREMENTS

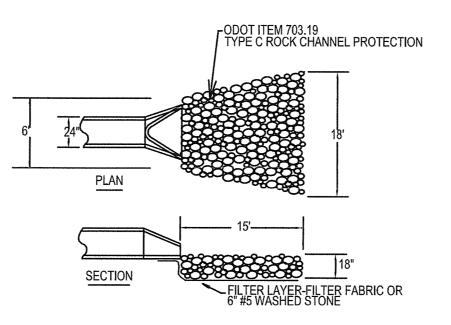
SCALE: N.T.S.



- 1. WASHING OUT OF CONCRETE TRUCKS AND RINSING OF THE CONCRETE TRUCK CHUTES SHALL BE STRICTLY MONITORED TO AVOID THE CONTAMINATION OF ANY SURFACE WATER OR
- 2. A WASHOUT PIT SHALL BE CONSTRUCTED FOR CONCRETE TRUCK WASHING, THE LOCATION SHALL BE COORDINATED WITH THE OWNER PRIOR TO CONSTRUCTION AND SHALL COMPLY TO THE REQUIREMENTS OF THE DEPARTMENT OF ENVIRONMENTAL QUALITY AND DELAWARE COUNTY AND SHALL BE REMOVED AFTER COMPLETION OF THE PROJECT.
- 3. ALL EXCESS WASHOUT AND CONCRETE SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL LOCATION.

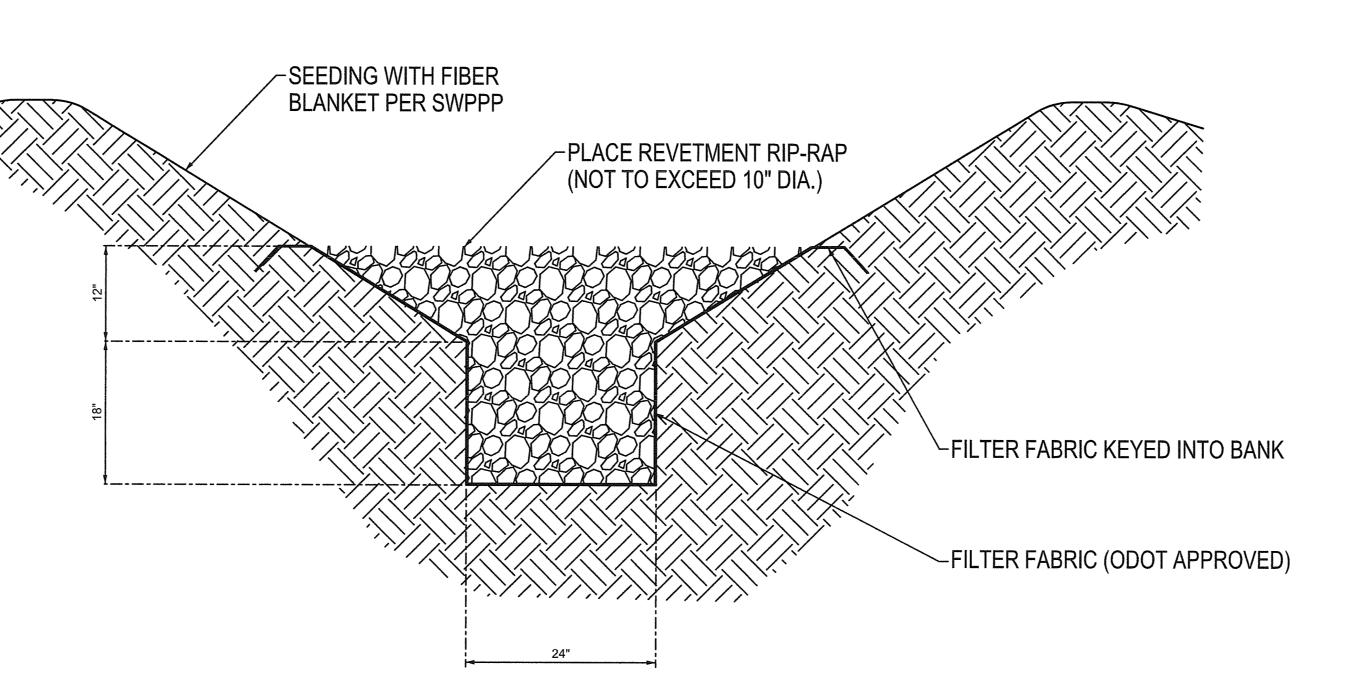
TYPICAL CONCRETE TRUCK WASHOUT PIT

SCALE: N.T.S.



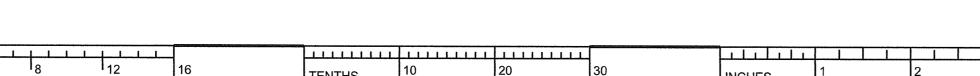
RIP RAP OUTLET PROTECTION

SCALE: N.T.S.



TYPICAL ROCK LINED DITCH CROSS SECTION

SCALE: N.T.S.



NOTES

GENERAL: Catch basin structure shall be a Catch Basin No. 2—2B per Ohio DOT Standard Construction Drawing CB—1.1.

GRATE: Furnish a design essentially the same and equally as strong as the one shown (see Construction Information table), or meet the requirements of CMS 711.14. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

WALLS: Construct brick or cast—in—place walls with a nominal 8" thickness. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and handling without damage.

CONCRETE: Use 4000 psi compressive strength for cast—in—place concrete.

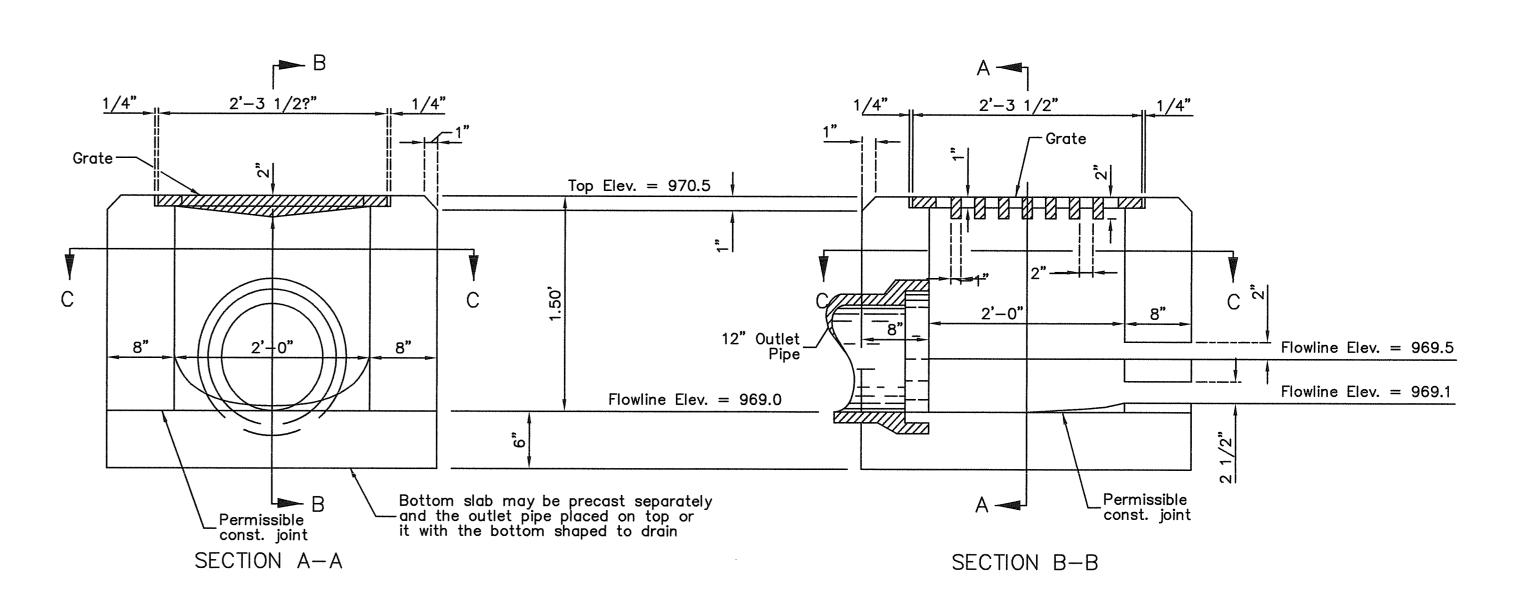
Meet the requirements of CMS 706.13 for all precast concrete and mark with the catch basin number.

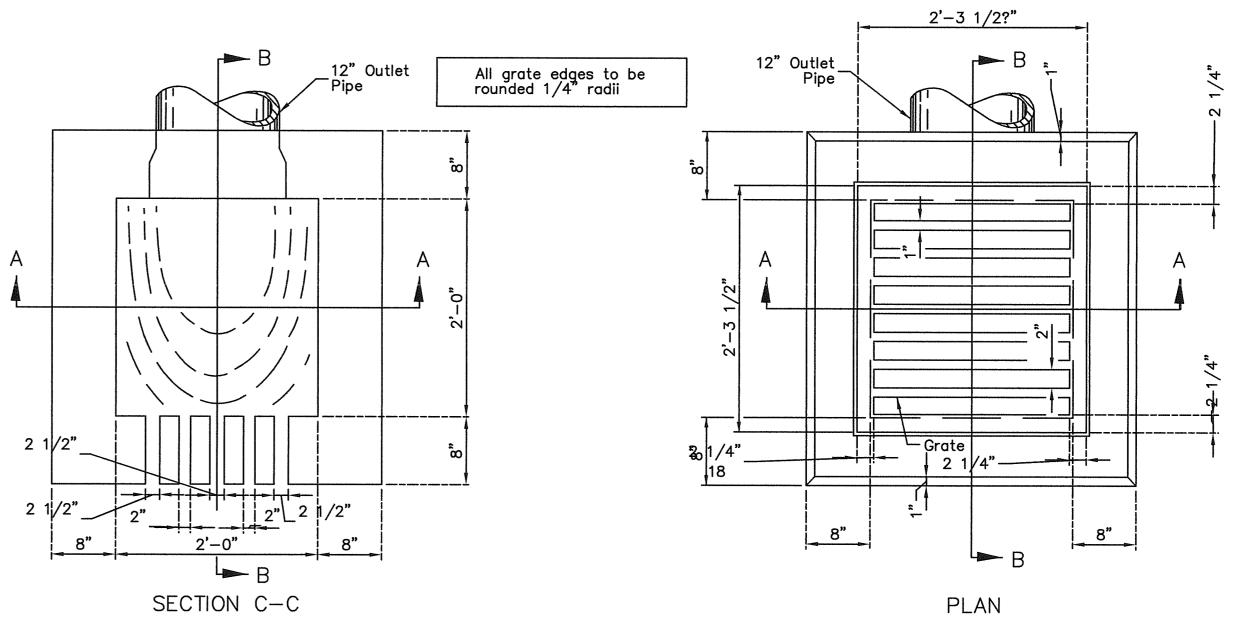
PRECAST BASE: If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

LOCATION AND ELEVATION: When given on the plans, location and elevation are at the top center of the grate. When side openings are provided, the elevation is at the flow line of the side inlet.

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per C&MS 611.

CONSTRUCTION INFORMATION Minimum weight of grate, 120 lbs.





OUTLET STRUCTURE

SCALE: N.T.S.

NO DATE



REFERENCE DRAWINGS:	
SITE DIMENSION PLAN; OVERALL STATION LAYOUT. SITE DIMENSION PLAN; OVERALL ACCESS ROAD. SITE DIMENSION PLAN; SWITCH STATION LAYOUT. SITE DIMENSION PLAN; COLLECTION SUBSTATION LAYOUT. SITE GRADING PLAN; OVERALL STATION LAYOUT. SITE GRADING PLAN; MAIN ACCESS ROAD. SITE GRADING PLAN; SWITCH STATION LAYOUT. SITE GRADING PLAN; COLLECTION SUBSTATION LAYOUT. SITE GRADING PLAN; DETENTION POND. SITE GRADING SECTIONS; ACCESS ROADS. SITE GRADING SECTIONS; SWITCH STATION. SITE GRADING SECTIONS; COLLECTION SUBSTATION. SITE GRADING SECTIONS; COLLECTION SUBSTATION. SITE GRADING SECTIONS; DETENTION POND.	E-1305 E-1306 E-1307 E-1308 E-1310 E-1311 E-1312 E-1313 E-1314
GRADING SECTIONS, DETENTION FOND GRADING DETAILS-EROSION MATTING DETAILS PROPERTY PLAT, LEGAL DESCRIPTION	E-1318
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	HARDIN SWITCH STATION			
KENTON				OHIO
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GRADING DETAILS				
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REVISION DESCRIPTION APPR DR ENG CK ISSUE#

1. THE SITE SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STIONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING AND CAKING. FILL ANY VOIDS AND VERIFY THE SLOPE IS COMPACTED PROPERLY.

2. APPLY SOIL AMENDMENTS AS NECESSARY TO PREPARE SOIL BED. PLACE FERTILIZER, WATER, AND SEED IN ACCORDANCE WITH MANUFACTURER, LOCAL/STATE REGULATIONS, OR ENGINEER/SPECIFIER REQUIREMENTS.

A. RECPS SHOULD BE PLACED IN THE CHANNEL BOTTOM FIRST. SECURE THE RECP AT THE BEGINNING OF THE CHANNEL, BY DIGGING AN ANCHOR TRENCH 6 INCHES DEEP BY SIX INCHES WIDE PERPENDICULAR TO THE DIRECTION OF WATER. EXTEND THE RECP PAST THE TRENCH SO THAT RECP OVERLAP EXTENDS PAST THE TRENCH A MINIMUM OF 6". STAKE OR STAPLE THE RECP IN THE TRENCH ON 12-INCH CENTERS. BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE SEED OVER THE COMPACTED SOIL IF NECESSARY. COVER THE COMPACTED SOIL WITH THE REMAINING 12 INCHES OF THE TERMINAL END OF THE RECP. STAPLE OR STAKE TERMINAL END DOWN SLOPE OF THE ANCHOR TRENCH ON 12-INCH CENTERS.

B. RECPS SHOULD BE UNROLLED IN THE DIRECTION OF WATER FLOW AND ORIENTED TO MINIMIZE THE NUMBER OF SEAMS ON THE BOTTOM OF THE CHANNEL. WHEN INSTALLING TWO RECPS SIDE BY SIDE IN A WATERWAY THE CENTER OF THE RECP SHOULD BE CENTERED IN THE AREA OF CONCENTRATED WATER FLOW. INSTALL ADJOINING RECPS AWAY FROM THE CENTER OF THE CHANNEL BOTTOM. FOLLOW MANUFACTURERS RECOMMENDATIONS WHEN ABUTTING RECP PANELS, IF AN OVERLAP IS SUGGESTED IT WILL GENERALLY BE TWO TO FOUR INCHES. CONTINUE TO INSTALL A COMMON ROW OF STAPLES AT TWO-FOOT MINIMUMS ALONG THE LENGTH OF THE OFFSET CENTER OVERLAP.

4. AS THE RECP IS UNROLLED CHECK SLOTS SHALL BE PLACED AT 25-FOOT INTERVALS. A CHECK SLOT IS CONSTRUCTED BY INSTALLING A DOUBLE ROW OF STAPLES OR STAKES STAGGERED AND SPACED FOUR INCHES APART. PLACE THE FIRST ROW OF STAPLES OR STAKES FOUR INCHES ON CENTER. CONTINUE ROLLING THE RECP DOWNSTREAM OVER THE COMPLETED CHECK SLOT.

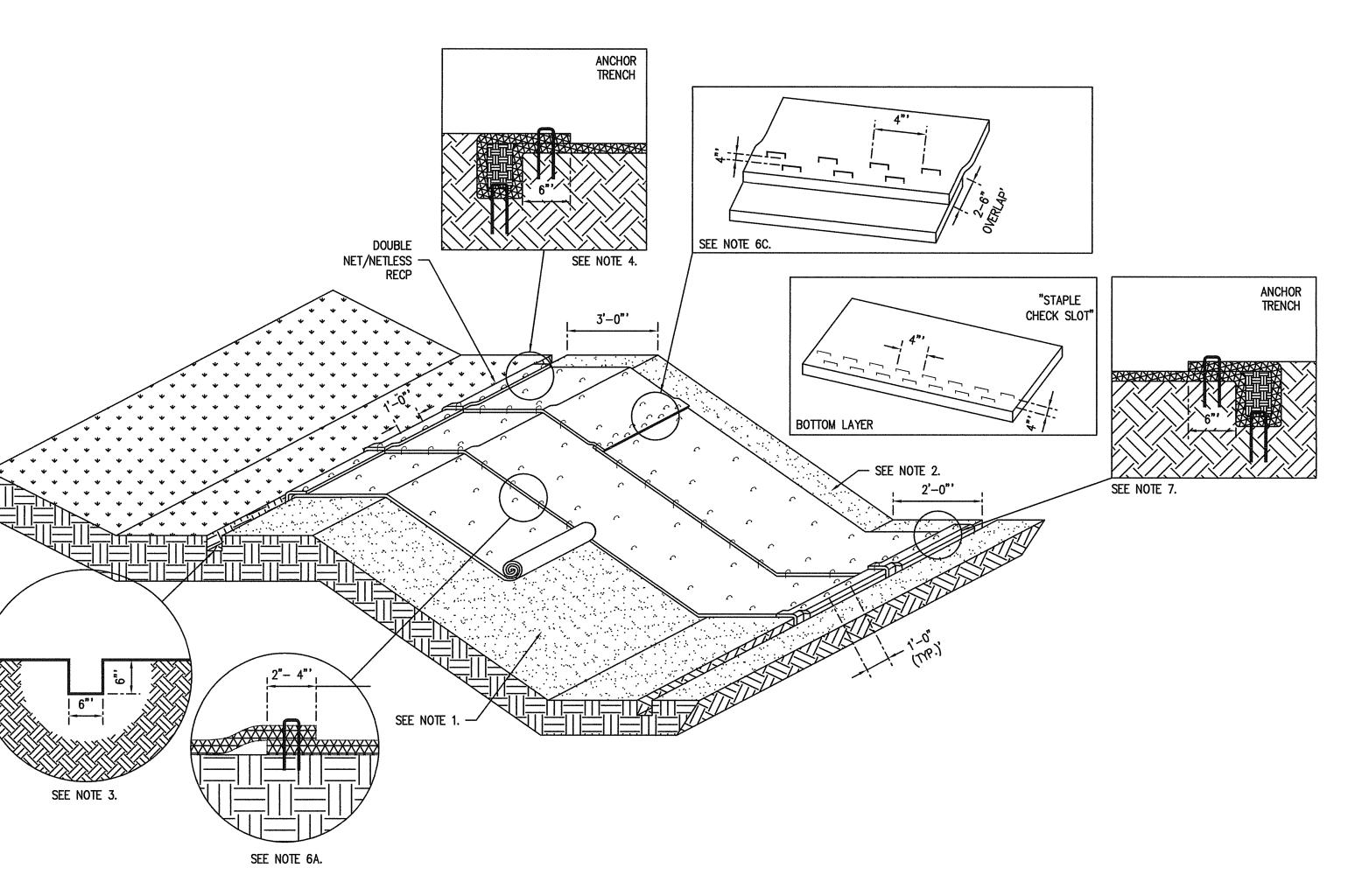
5. CONTINUE TO ROLL THE RECP ALONG THE CHANNEL BOTTOM AND SIDE SLOPES IN THE DIRECTION OF THE WATER FLOW.

A. AS THE RECP IS INSTALLED FROM THE CHANNEL BOTTOM UP THE SLOPE A SHINGLE TYPE INSTALLATION IS RECOMMENDED WITH THE UP-SLOPE RECP OVERLAPPING THE LOWER RECP APPROXIMATELY TWO INCHES TO FOUR INCHES. ANCHOR THE RECPS WITH A MINIMUM STAPLE PATTERN OF ONE STAPLE EVERY 24 INCHES ACROSS THE WIDTH AND ONE STAPLE EVERY 36 INCHES DOWN ITS LENGTH.

B. IF THE RECP NEEDS TO BE SPLICED, BE SURE THE RECP IS "SHINGLED" WITH THE UP-STREAM RECP OVERLAPPING THE DOWN-STREAM RECP. THERE SHOULD BE FOUR INCHES OF OVERLAP IN A SPLICE. USE A STAPLE CHECK SLOT TO SECURE THE OVERLAP.

C. ANCHOR THE RECP PLACED AT THE TOP OF THE CHANNEL SLOPE IN THE SAME MANNER AS DESCRIBED IN THE SLOPE SECTION.

6. SECURE THE RECP AT THE TERMINAL END OF THE CHANNEL WITH A CHECK SLOT SIMILAR TO THE ONE MADE AT THE BEGINNING OF THE CHANNEL.



TYPICAL SWALE MATTING DETAIL

TYPICAL SLOPE MATTING DETAIL

"Engineering with Distinction"

ELECTRICAL

CONSULTANTS, INC.

INSTALLATION GUIDELINES OF RECPS DURING SLOPE APPLICATIONS

1. THE SITE SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS,

CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING AND CAKING. FILL ANY VOIDS AND VERIFY THE SLOPE IS COMPACTED PROPERLY.

2. APPLY SOIL AMENDMENTS AS NECESSARY TO PREPARE SOIL BED. PLACE FERTILIZER, WATER, AND SEED IN ACCORDANCE WITH MANUFACTURER, LOCAL/STATE REGULATIONS, OR ENGINEER/SPECIFIER REQUIREMENTS.

3. AT THE TOP OF THE SLOPE DIG AN ANCHOR TRENCH 6 INCHES DEEP BY SIX INCHES WIDE. THE RECP WILL BE ANCHORED INTO THE TRENCH BY STAPLES. ALLOW AT LEAST 3 FEET FROM THE CREST OF THE SLOPE TO THE ANCHOR TRENCH. STAPLES SHOULD BE INSTALLED ON THE TOP OF THE RECP ONE FOOT ON CENTER ALONG THE OUTSIDE PARAMETER OF THE RECP.

4. BEGIN RECP PLACEMENT PAST THE ANCHOR TRENCH. EXTEND THE RECP PAST THE ANCHOR TRENCH SO THAT RECP OVERLAP EXTENDS PAST TRENCH A MINIMUM OF 6". RUN THE RECP DOWN THE ANCHOR TRENCH. ANCHOR THE RECP WITH STAPLES IN THE ANCHOR TRENCH. BE SURE TO DRIVE STAPLES OR STAKES FLUSH WITH THE SOIL SURFACE, CONSULT WITH ENGINEER FOR STAKE/STAPLE SIZE.

SECURE THE ANCHOR TRENCH USING SINGLE NET RECP - BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE SEED OVER THE COMPACTED SOIL. COVER THE COMPACTED SOIL WITH THE REMAINING 12 INCHES

OF THE TERMINAL END OF THE RECP. STAPLE OR STAKE TERMINAL END DOWN SLOPE OF THE ANCHOR

5. RECPS ARE TYPICALLY UNROLLED PARALLEL TO THE PRIMARY DIRECTION OF FLOW. STARTING AT THE CREST OF THE SLOPE, ROLL THE RECP DOWN THE SLOPE IN A CONTROLLED MANNER. APPROXIMATELY EVERY 20-25 FEET PULL THE RECP TO TAKE OUT ANY EXCESS SLACK. THE GOAL IS TO HAVE THE RECPS CONTOUR AND HAVE INTIMATE CONTACT WITH THE SOIL. DO NOT STRETCH OR ALLOW MATERIAL TO BRIDGE OVER SURFACE INCONSISTENCIES.

6. A. SECURE THE OVERLAP OR THE EDGES WITH STAPLES, FOLLOW MANUFACTURER RECOMMENDATIONS FOR EDGE JOINTS. THE TYPICAL INSTALLATION WILL REQUIRE ONE PLACED AT THREE TO FIVE FEET INTERVALS ALONG THE VERTICAL LENGTH OF THE RECPS. STAPLES SHOULD BE STAGGERED EVERY 18 TO 24 INCHES HORIZONTALLY ACROSS THE RECP.

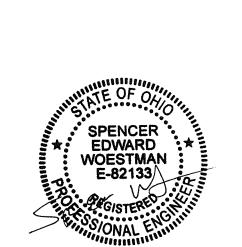
B. IT IS RECOMMENDED THAT ALL RECP MATERIALS BE SECURELY ANCHORED AT AN APPROXIMATE RATE OF 1.5 STAPLES OR STAKES PER SQUARE YARD. HOWEVER, SOIL TYPES AND OTHER SITE CONDITIONS MAY REQUIRE ADDITIONAL STAPLING. FOLLOW MANUFACTURER AND ENGINEER RECOMMENDATIONS.

C. IF THE RECP NEEDS TO BE SPLICED IN THE MIDDLE OF A SLOPE BE SURE THE RECP IS "SHINGLED" WITH UP-SLOPE RECP OVERLAPPING THE DOWN-SLOPE RECP. THERE SHOULD BE FOUR INCHES OF OVERLAP IN A SPLICE. USE A STAPLE CHECK SLOT TO SECURE THE OVERLAP. A STAPLE CHECK SLOT IS MADE BY PLACING A ROW OF STAPLES FOUR INCHES ON CENTER AND THEN PLACING A SECOND ROW OF STAPLES FOUR INCHES ON CENTER, STAGGERED FROM THE FIRST ROW.

7. ROLL THE RECP TWO FEET PAST THE TOE OF THE SLOPE. SECURE WITH STAPLES OR STAKES ONE FOOT ON CENTER ACROSS THE RECP.

*NOTE: ON SHORT SLOPES SOME MANUFACTURES ALLOW FOR A HORIZONTAL INSTALLATION METHOD TO AVOID EXTRA HANDLING, IN THESE SITUATIONS FOLLOW ENGINEER AND MANUFACTURER RECOMMENDATIONS.

REFERENCE DRAWINGS:



REVISION DESCRIPTION APPR DR ENG CK ISSUE#

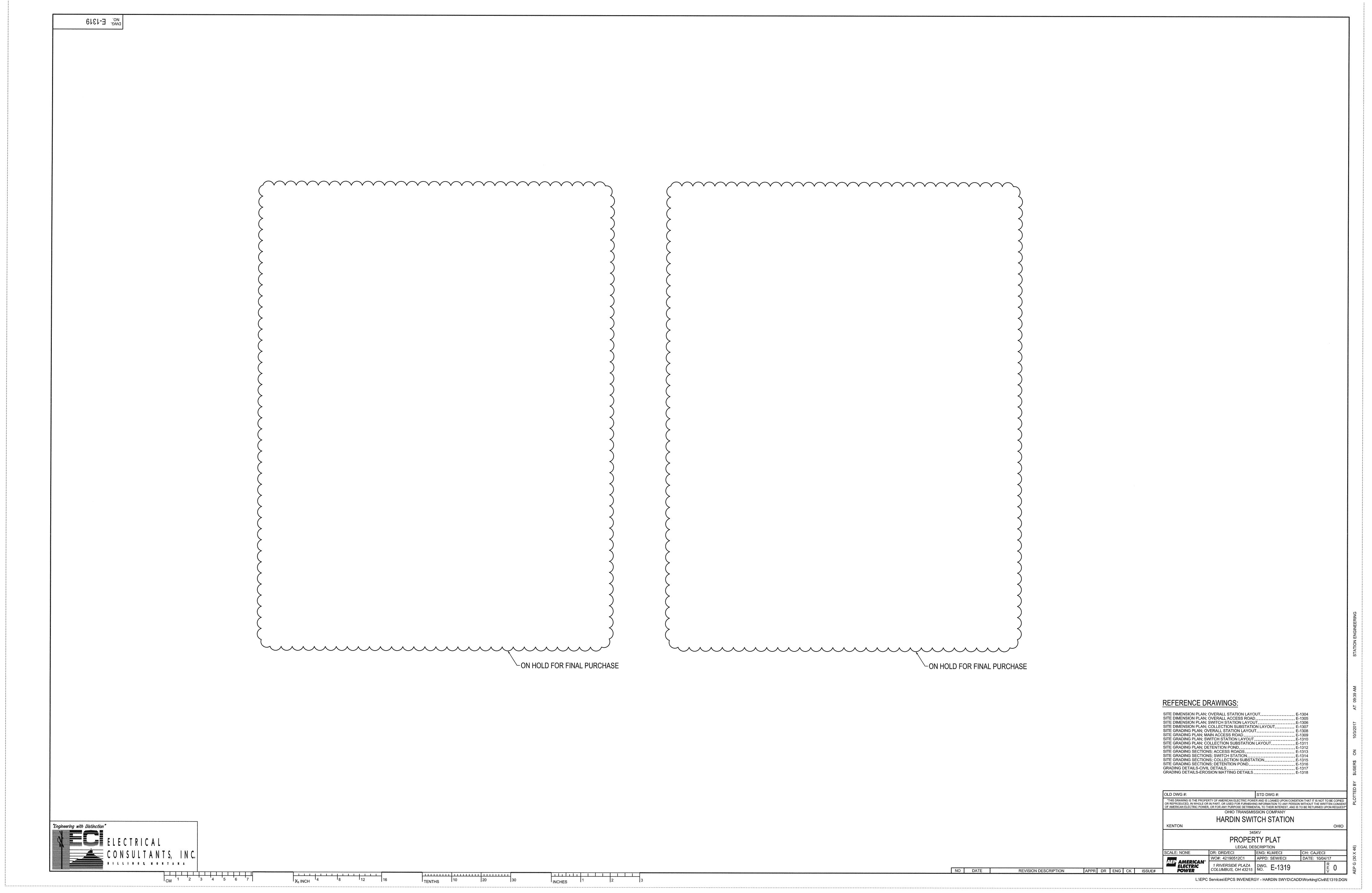
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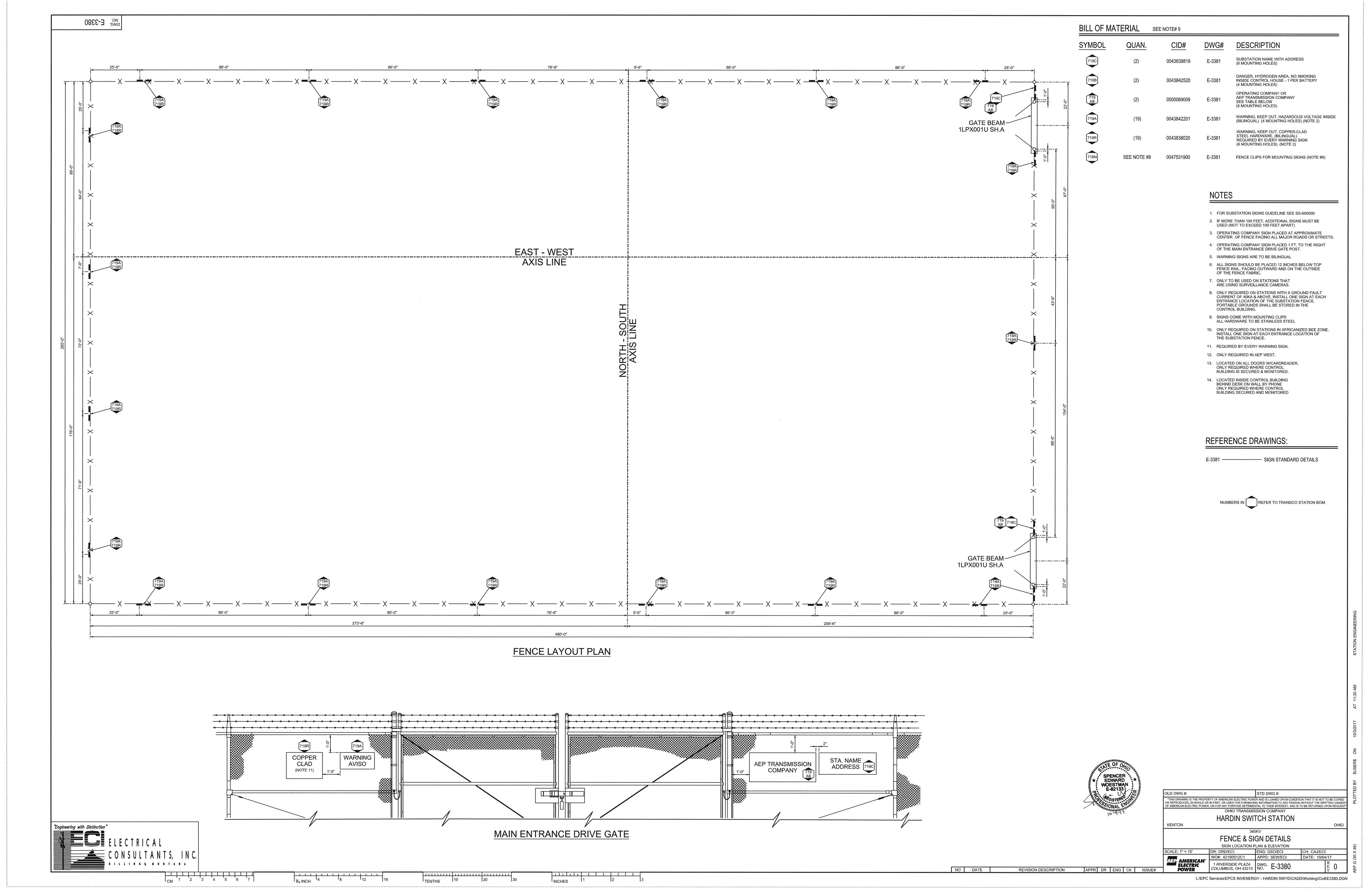
TRENCH ON 12-INCH CENTERS.

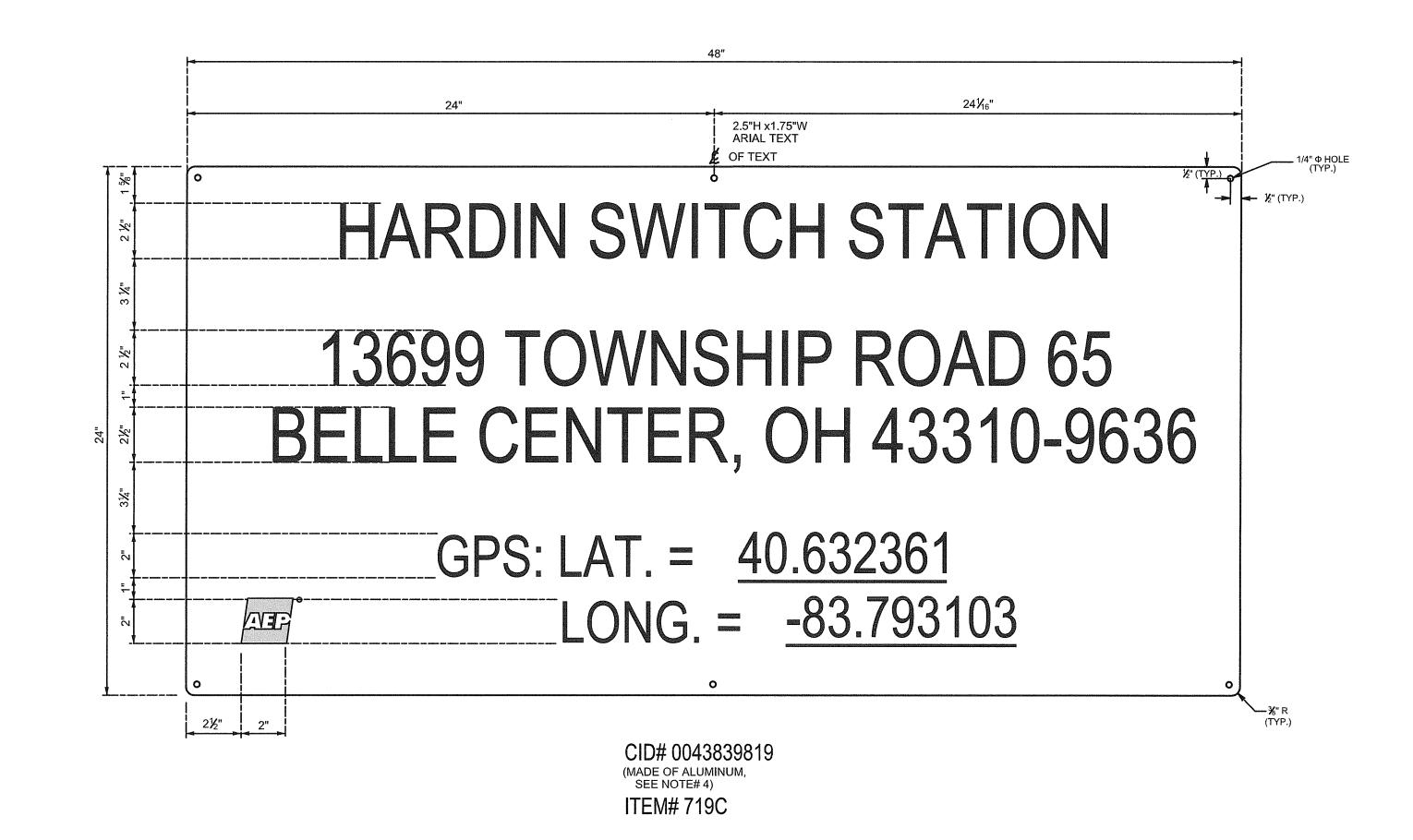
SITE DIMENSION PLAN; OVERALL STATION LAYOUT	E-1304
SITE DIMENSION PLAN; OVERALL ACCESS ROAD	E-1305
SITE DIMENSION PLAN; SWITCH STATION LAYOUT	E-1306
SITE DIMENSION PLAN; COLLECTION SUBSTATION LAYOUT	E-1307
SITE GRADING PLAN; OVERALL STATION LAYOUT	
SITE GRADING PLAN; MAIN ACCESS ROAD	E-1309
SITE GRADING PLAN; SWITCH STATION LAYOUT	
SITE GRADING PLAN; COLLECTION SUBSTATION LAYOUT	E-1311
SITE GRADING PLAN; DETENTION POND	E-1312
SITE GRADING SECTIONS; ACCESS ROADS	E-1313
SITE GRADING SECTIONS; SWITCH STATION	
SITE GRADING SECTIONS; COLLECTION SUBSTATION	
SITE GRADING SECTIONS; DETENTION POND	
GRADING DETAILS-CIVIL DETAILS	E-1317
PROPERTY PLAT, LEGAL DESCRIPTION	

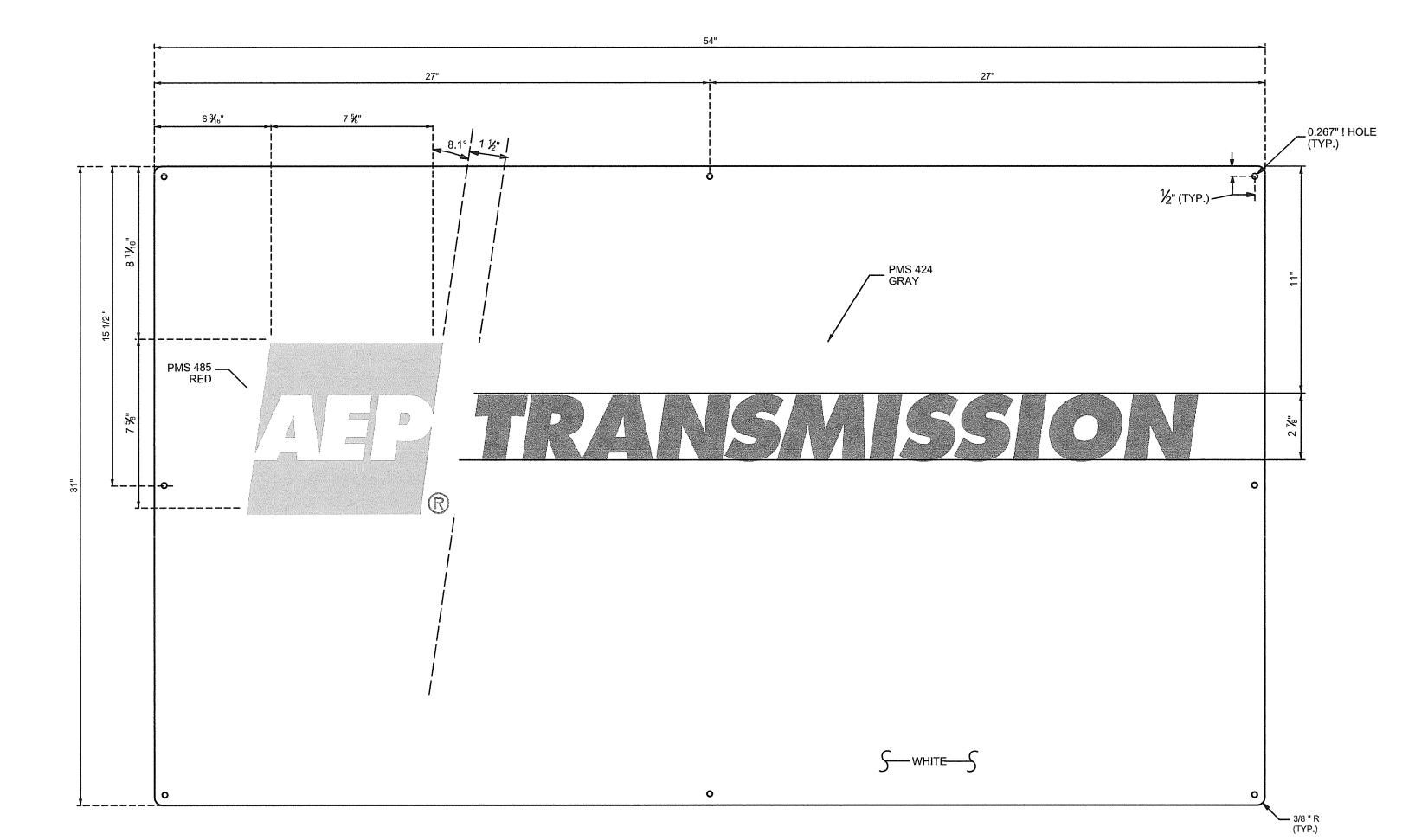
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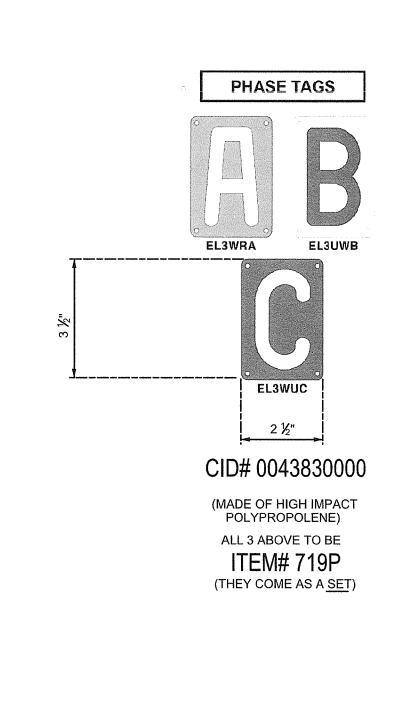
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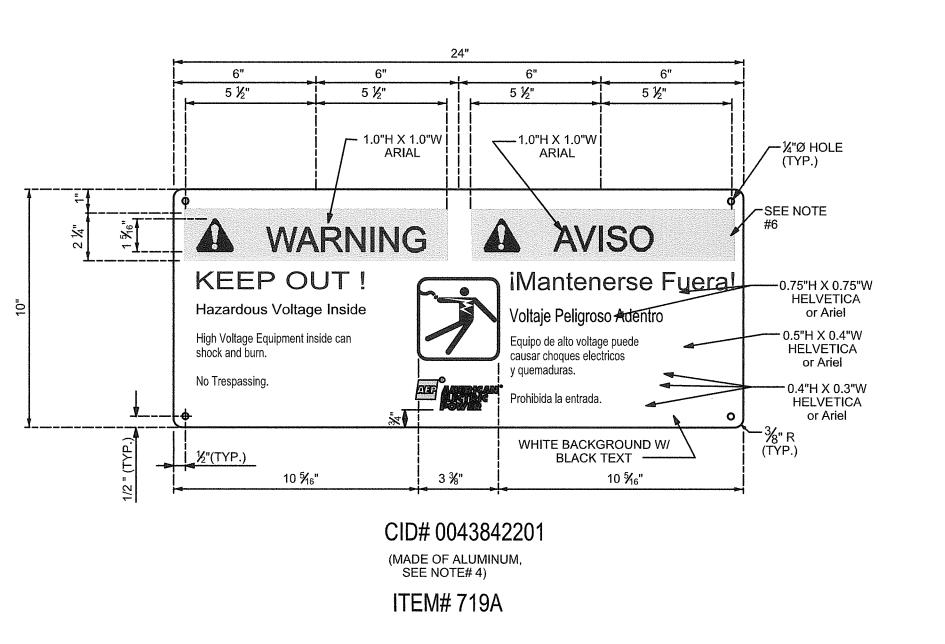






CID# 0500069009 (MADE FROM ALUMINUM, SEE NOTE# 1) ITEM# 719AB

3/₆ INCH 4 8 12 11



REFERENCE DRAWING

E-3380 FENCE & SIGN DETAILS

1) THE SIGN SHALL COMPLY WITH ANSI Z535.1-Z535.5 (LATEST REVISION).

2 THE SYMBOL/PICTORIAL PANEL SHALL BE SQUARE WITH A BLACK SYMBOL OF A BODY WITH WIRE AND LIGHTNING BOLT ON A WHITE

3) SIGN SHALL BE FABRICATED USING ACRYLIC MODIFIED POLYESTER RESIN REINFORCED WITH CHOPPED STRAND FIBERGLASS, MINIMUM OF 28%. FIBERTEC IS NON-STATIC AND IMAGES ARE EMBEDDED SUBSURFACE IN THE MATERIAL TO PROTECT THEM ON BOTH SIDES. THE NOMINAL THICKNESS OF A STANDARD FIBERTEC

4) SIGNS SHALL BE MANUFACTURED FROM AN 80 MIL ALUMINUM SHEET, TYPE 3003 H-14 COATED FRONT AND BACK WITH AN ACRYLIC ENAMEL. ALL SHARP EDGES AND BURRS SHALL BE REMOVED. THE SIGNS SHALL HAVE A THICKNESS OF 0.080". THE MOUNTING HOLES SHALL BE PROTECTED BYBRASS FERRULES.

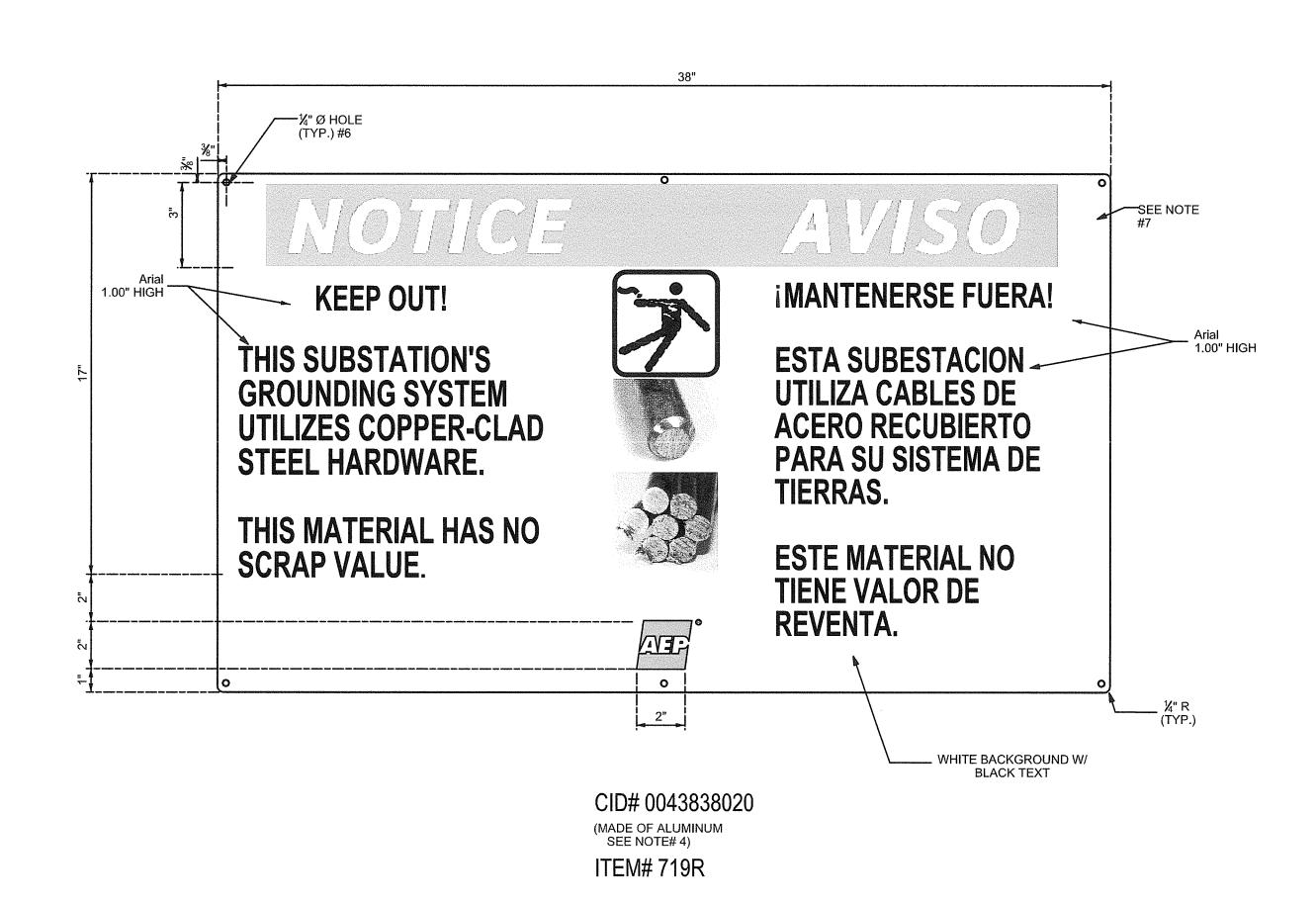
5) THE SIGNAL WORD "WARNING" SHALL BE IN BLACK LETTERS ON A RECTANGULAR ANSI SAFETY ORANGE BACKGROUND. THE SAFETY ALERT SHALL BE AN ORANGE EXCLAMATION MARK ON A BLACK EQUILATERAL TRIANGLE.

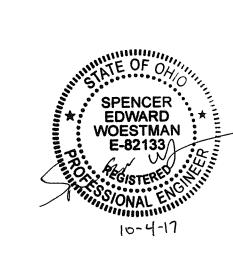
6) THE SIGNAL WORD "DANGER" SHALL BE IN WHITE LETTERS ON A RECTANGULAR ANSI SAFETY RED BACKGROUND. THE SAFETY ALERT SYMBOL SHALL BE A RED EXCLAMATION MARK ON A WHITE EQUILATERAL TRIANGLE. 7) THE SIGNAL WORD "NOTICE" "AVISO" AND "NOTICE" SHALL BE WHITE LETTERS ON A RECTANGULAR ANSI SAFETY BLUE

STICK FIGURE LIMB ANGLES

NOT TO SCALE

3 ¾"





STD DWG #: 1LPX002U SH, A "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 CONSEN OF AMERICAN ELECTRIC POWER, OR FOR ANY PURPOSE DETRIMENTAL TO THEIR INTEREST, AND IS TO BE RETURNED UPON REQUEST OHIO TRANSMISSION COMPANY HARDIN SWITCH STATION KENTON SIGN STANDARD DANGER, STICK FIGURE, COPPER-CLAD, STATION, AEP OHIO, PHASE MARKERS

1 RIVERSIDE PLAZA DWG. E-3381 COLUMBUS, OH 43215 NO. L:\EPC Services\EPCS INVENERGY - HARDIN SWYD\CADD\Working\Civil\E3381.DGN

REVISION DESCRIPTION APPR DR ENG CK ISSUE#

This foregoing document was electronically filed with the Public Utilities

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1/8/2018 4:11:24 PM

in

Case No(s). 09-0479-EL-BGN, 11-3446-EL-BGA, 16-0469-EL-BGA, 16-2404-EL-BGA

Summary: Notice of Compliance with Certificate Condition #57 - Issued for Construction Drawings for Substation and Point of Interconnection electronically filed by Mr. William V Vorys on behalf of Hardin Wind Energy LLC