



Public Notice

**US ARMY CORPS
OF ENGINEERS**
St. Louis District
Gateway to Excellence

Reply To:
U.S. Army Corps of Engineers
Attn: CEMVS-OD-R
1222 Spruce Street
St. Louis, Missouri 63103-2833

Permission No.
OD-R 21-029
Public Notice Date
September 23, 2022

Expiration Date
October 22, 2022

Postmaster, Please Post Conspicuously Until:

REQUEST FOR PERMISSION TO MODIFY A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work near federally constructed flood protection projects of the United States, as described below and shown on the attached maps.

COMMENTS AND ADDITIONAL INFORMATION: Comments on the described work should reference the U.S. Army Corps of Engineers Public Notice number shown above and must reach this office no later than the above expiration date of the Public Notice to become part of the record and be considered in the decision. Comments should be mailed to the following address:

U.S. Army Corps of Engineers
Readiness Branch
1222 Spruce Street
St. Louis, Missouri 63103-2833
ATTN: Jeffrey Wells, P.E.
or Jeffrey.M.Wells@usace.army.mil

REQUESTER: Wood PLC. On behalf of Ameren Illinois Company Attention: Mr. Randy Cook Jr.

LOCATION: Ameren Illinois Company is requesting the replacement of an existing transmission line in Jackson County Illinois. The site is located perpendicular to and crossing the Grand Tower Levee District in the vicinity of Grand Tower, Illinois at approximate levee station 945+00, adjacent to the Big Muddy River.

PROPOSED ACTION: The applicant is requesting to make alterations to the Grant Tower Levee. The proposed alterations include the replacement of structures 36 and 37 which are approximately 145 feet landside and 605 feet riverside of the levee centerline respectively. A new transmission line will be suspended between the new structures with an approximate clearance of 40 feet over the levee crown.

LOCATION MAPS AND DRAWINGS: See Attachment

ADDITIONAL INFORMATION: Additional information may be obtained by contacting Jeffrey Wells, P.E., St. Louis District 408 Coordinator, U.S. Army Corps of Engineers, at (314)-331-8568. Your inquiries may also be sent by e-mail to Jeffrey.M.Wells@usace.army.mil.

REGULATORY AUTHORITY: The St. Louis District Regulatory Branch has conducted a preliminary review of the proposed project. Based upon review of the project activity description, as well as the location of the work, the Regulatory Branch determined that this activity does not trigger the need for a Department of the Army Permit under Section 404 of the Clean Water Act. If additional infrastructure plans are developed that include impacts to Waters of the U.S., then a permit application would need to be submitted to the Regulatory Branch. It should be noted that although this proposal does not need a Section 404 permit based on submitted plans, any revisions to the applicant's proposal may be subject to permitting.

EVALUATION: The decision whether to grant the requested permission for project modification under Section 408 will be based on several factors. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. Review of the requests for modification will be reviewed by a U.S. Army Corps of Engineers technical review team considering the following factors:

1. **Impair the Usefulness of the Project Determination.** The review team will determine if the proposed alteration would limit the ability of the project to function as authorized, or would compromise or change any authorized project conditions, purposes, or outputs. The decision whether to approve a request for modification would be based on a determination of no impairments.
2. **Injurious to the Public Interest Determination.** Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the U.S. Army Corps of Engineers project may have on the public interest requires a careful weighing of all those factors that are relevant in each case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.
3. **Environmental Compliance.** A decision on a Section 408 request is a federal action and is therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the St. Louis District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. NEPA and other analysis completed to comply with the other environmental statutes (e.g. Endangered Species Act) should be commensurate with the scale and potential effects of the activity that would alter the US Army Corps of Engineers project. The scope of analysis for the NEPA and

environmental compliance evaluations for the Section 408 review is limited to the area of alteration and those adjacent areas that are directly or indirectly affected by the alteration. The proposed project is not expected to involve significant impacts to endangered species, important fish and wildlife resources, water quality, floodplains, or other natural and cultural resources. The environmental effects of this project are minor. In compliance with Section 7(c) of the Endangered Species Act of 1973, as amended, lists of species and critical habitat were acquired from the USFWS Information for Planning and Conservation (IPaC) website for the east Proposed Action Area on 05 August 2022 (Project Code: 2022-0071772). The listed species included Gray Bat, Indiana Bat, Northern Long-eared Bat, and Monarch Butterfly. A “may affect, not likely to adversely affect” determination was made for the three bat species and a “not likely to jeopardize” determination was made for the candidate Monarch Butterfly. The USFWS was asked to provide concurrence for these species’ determinations on 19 September 2022 but a response has not been received yet. The IL DNR reviewed the project and concluded that adverse effects are unlikely and terminated consultation on 09 August 2022.

St. Louis District Archaeologists conducted a Historic Property Preliminary Review on 31 May 2022. This review determined that the project was limited to the replacement of existing poles and for these reasons, the USACE – St. Louis District has made a “No Historic Properties or Structures Affected” determination for the project. A coordination letter was sent to the IL SHPO on 07 September 2022 and a response is expected 30 days from that date.

4. All actions taken would be in accordance with the National Historic Preservation Act of 1966, as amended (NHPA). In the unlikely event that, earthmoving activities associated with the proposed work did impact potentially significant archeological/historic remains, all construction activities and earthmoving actions in the immediate vicinity of the remains would be held in abeyance until the potential significance of the remains could be determined. The precise nature of such investigations would be developed by the Saint Louis District in concert with the professional staff of the Illinois SHPO.
5. Environmental Impact Statement. A preliminary determination has been made that an environmental impact statement is not required for the proposed work.
6. Technical Analysis. The St. Louis District is working closely with the requestor to ensure that all technical plans, maps, drawings, specifications are provided and complete. A District-led Technical Review is being conducted to determine any potential adverse impacts to the US Army Corps of Engineers flood protection system.

SOLICITATION OF COMMENTS: The U.S. Army Corps of Engineers is soliciting comments from the public; Federal, State, and Local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are taken into consideration in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

SUMMARY: It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to obtain materials under FOIA or make an appointment to view the project file at the St. Louis District Corps of Engineers, Office of Counsel.

Interested parties wishing to comment on the proposed activity must do so in writing no later than **October 22, 2022**. It is presumed that all parties receiving this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply Corps of Engineers endorsement of the project as described.

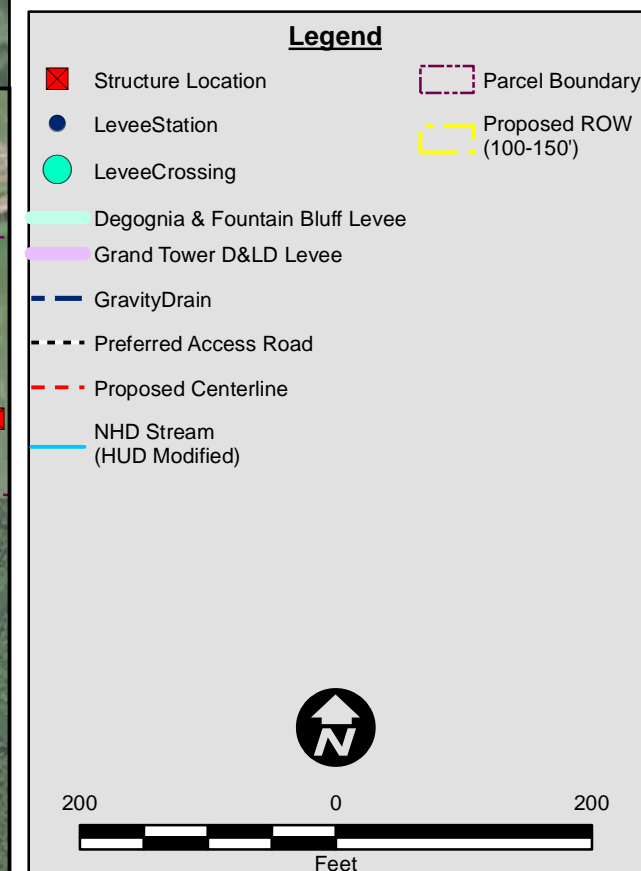
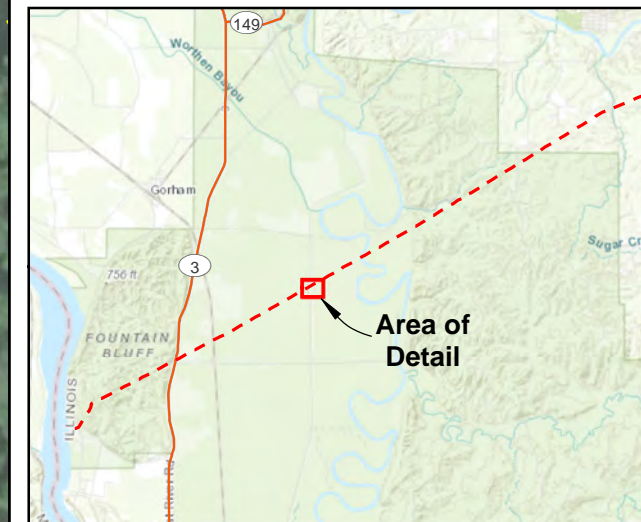
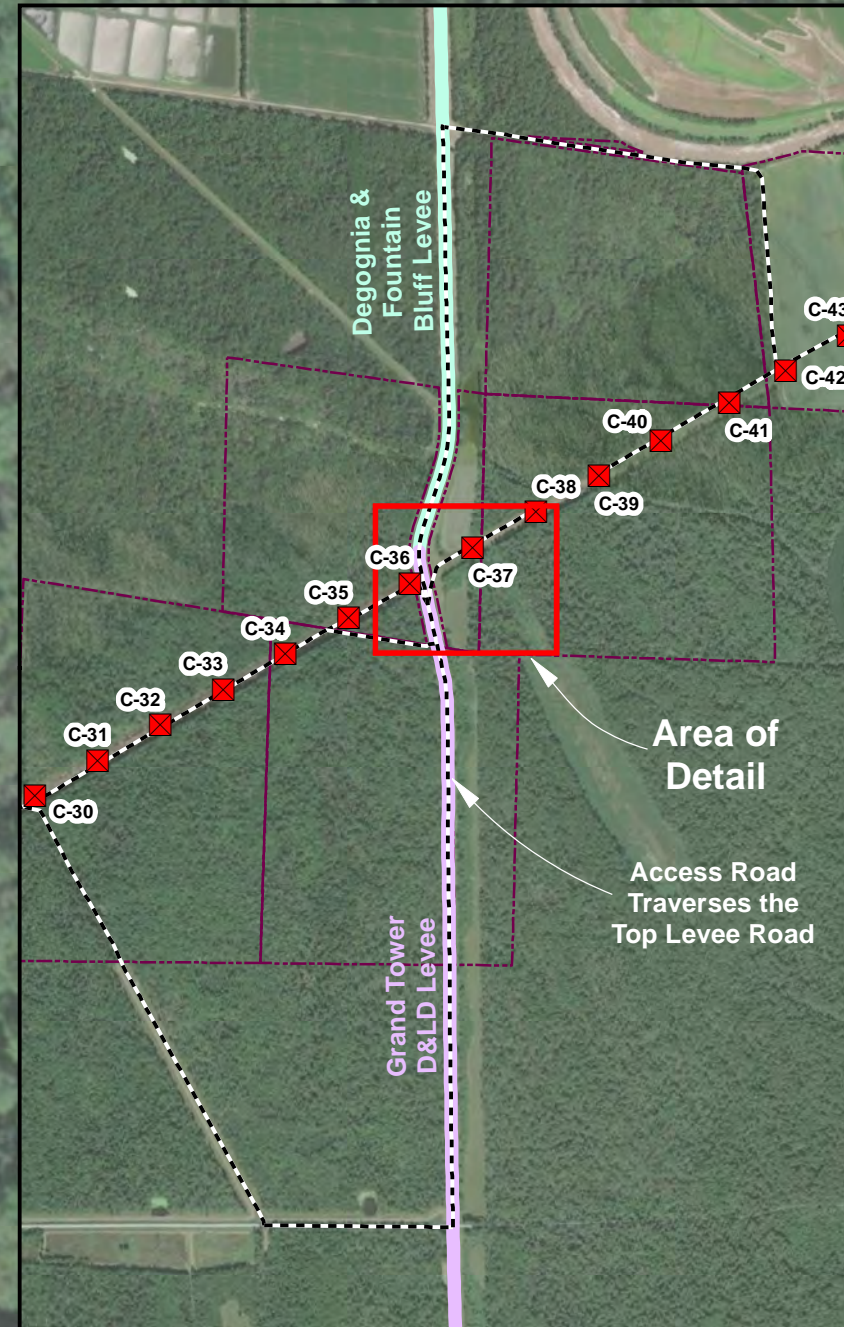
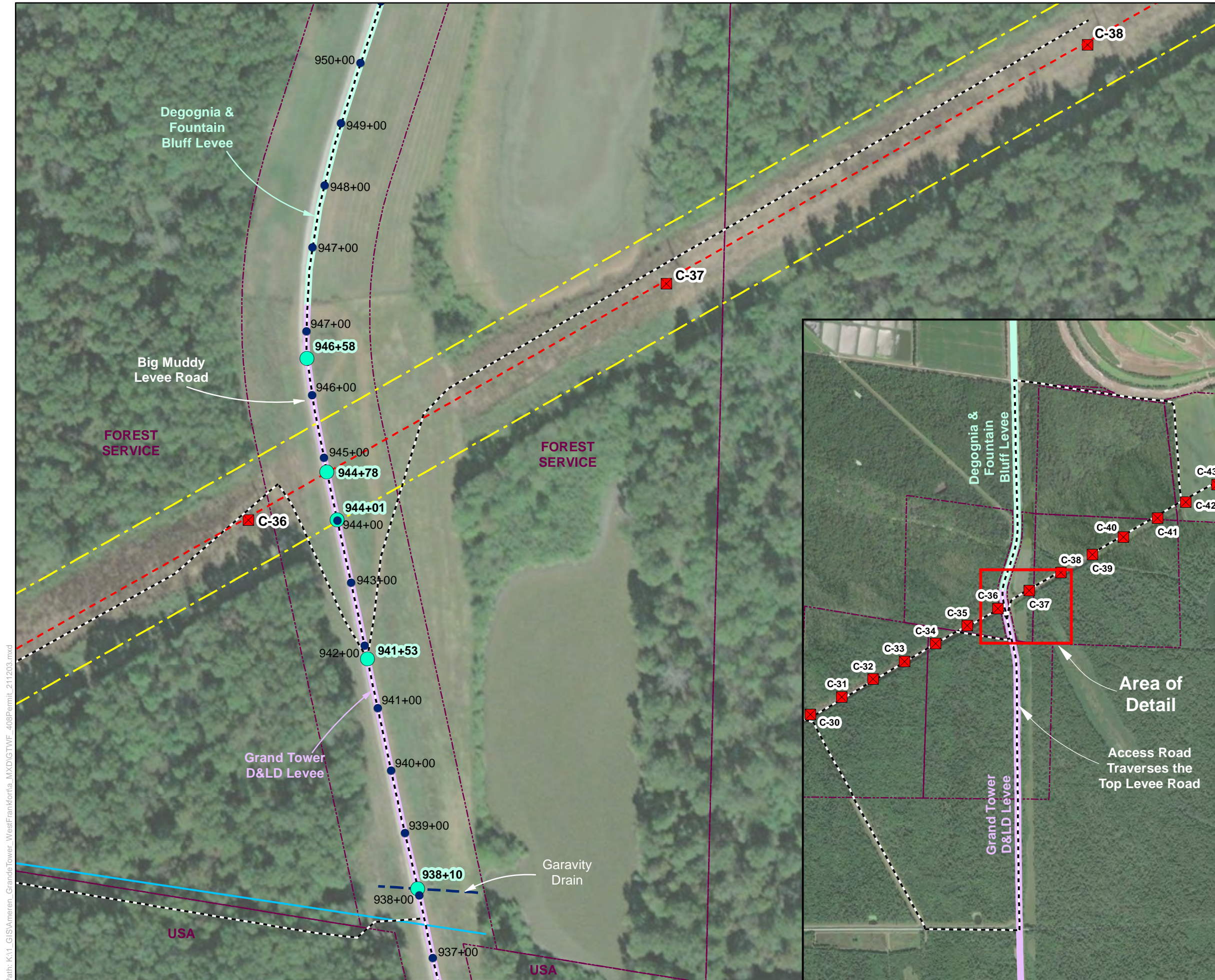
ORIGINAL SIGNED

John L. Osterhage
Chief, Readiness Branch

Attachment

NOTICE TO POSTMASTERS:

It is requested that this notice be conspicuously and continually placed for 30 days from the date of this issuance of this notice.



Project Overview

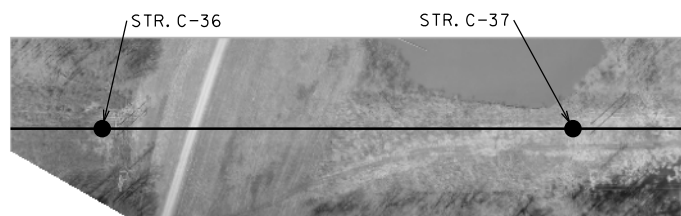


Grand Tower to
West Frankfort
Transmission
Line Project

Job No. 325220171
Drawn By: BSM
Reviewed By: RAC
Date: 12/3/2021



The map shown here has been created with all due and reasonable care and is strictly for use with Wood Projects. This map has not been certified by a licensed land surveyor, and any third party use of this map comes without warranties of any kind. Wood assumes no liability, direct or indirect, whatsoever for any such third party or unintended use.



KEY MAP

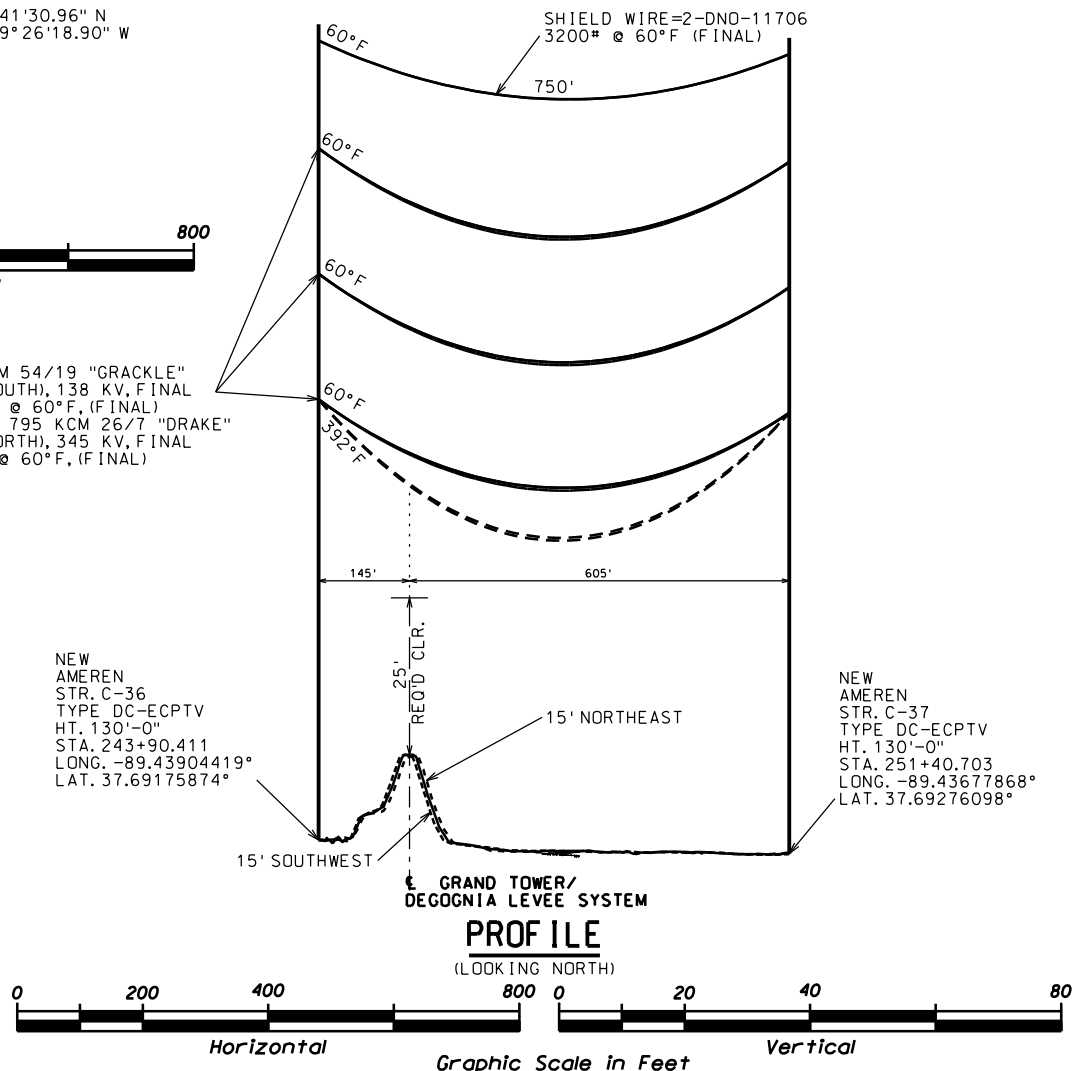


NOTES:

1. THIS CONSTRUCTION HAS BEEN DESIGNED TO MEET REQUIREMENTS OF THE 1983 ILLINOIS ADMINISTRATIVE CODE PART 305, REVISED JUNE 15, 2003.
2. MINIMUM CLEARANCE AS DEPICTED IS BASED ON NESC 2017 FOR 345 KV. CLEARANCE IS 25 FT.

LEGEND

- NEW STRUCTURE
 === BIG MUDDY LEVEE RD.
 — £ TRANSMISSION

[illegible]

CROSSING PERMIT: PROPOSED DBL CIRCUIT
3 PHASE 138KV AND 3 PHASE 345 KV CROSSING
GRAND TOWER/DECOGNIA LEVEE SYSTEM; SECTION 33,
T-9-S, R-3-W, OF THE THIRD P.M., JACKSON COUNTY

GRAND TOWER - WEST FRANKFORT



XXX100

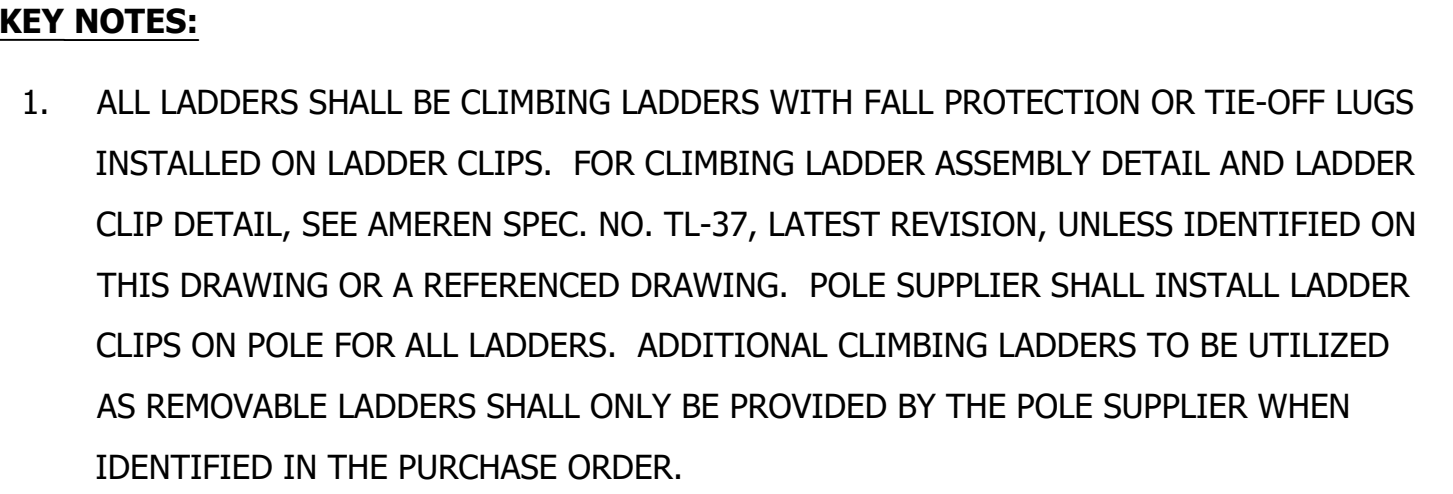
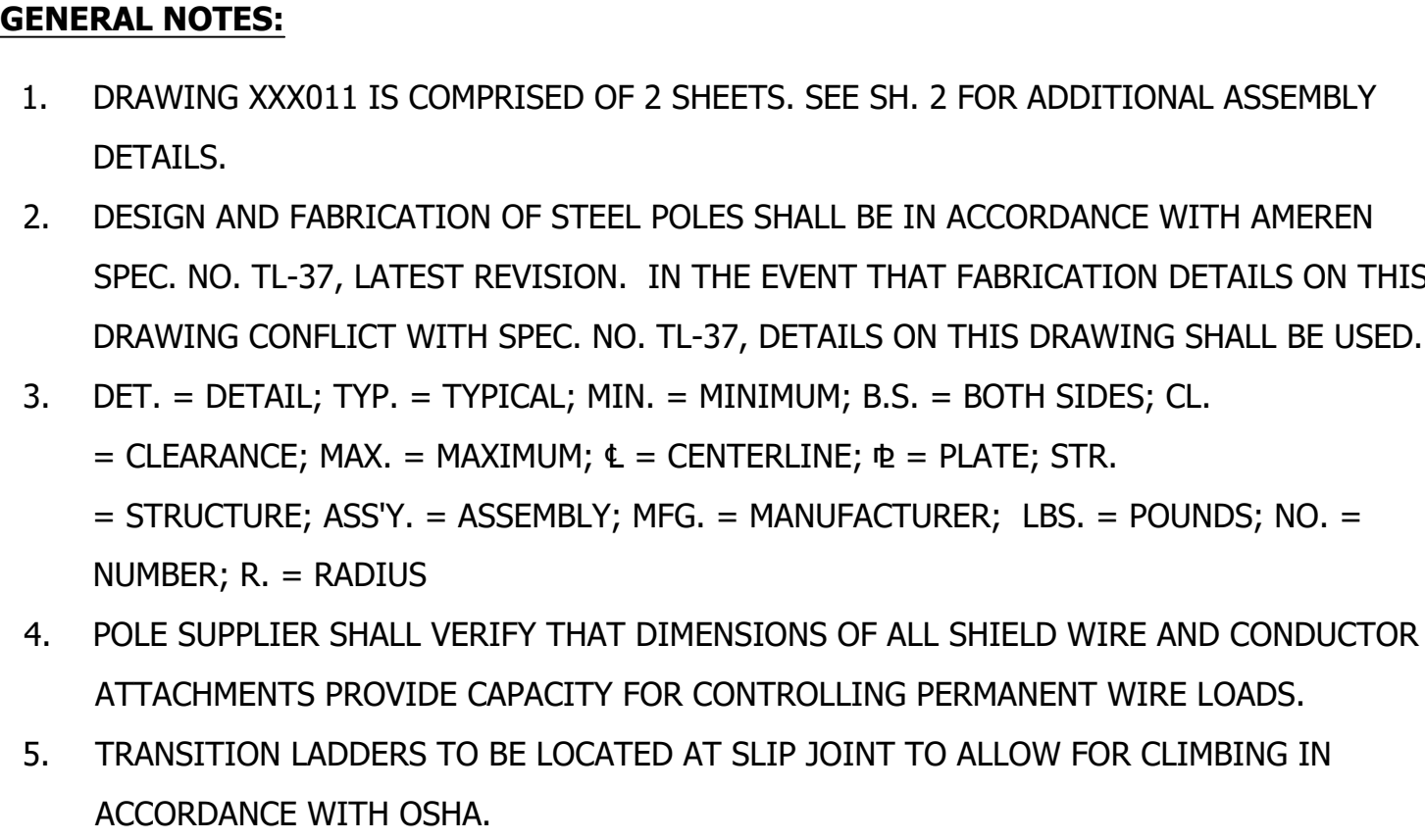
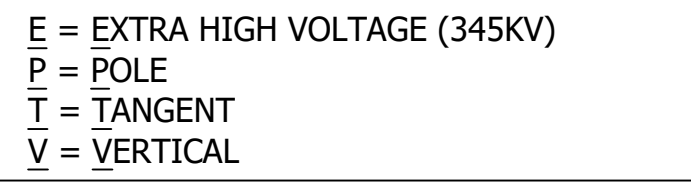
REV
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1522

8.5X11

NOTICE OF LIMITED RESPONSIBILITY



THE RESPONSIBILITY OF THE UNDERSIGNED ENGINEER IS LIMITED TO THE DESIGN WORK SHOWN ON PROJECT DRAWINGS AND DOCUMENTS BEARING HIS/HER SEAL SIGNATURE OR INITIALS. HE/SHE DOES NOT HAVE AUTHORITY OVER THE PROJECT AS A WHOLE, NOR DOES HE/SHE ASSUME ANY LIABILITY FOR WORK DONE UNDER SUBSEQUENT REVISIONS AND ANY OTHER DOCUMENTS ASSOCIATED WITH THE PROJECT, WHICH DO NOT BEAR HIS/HER SEAL SIGNATURE OR INITIALS.

SCALE RATIO = 1"=200'-0"

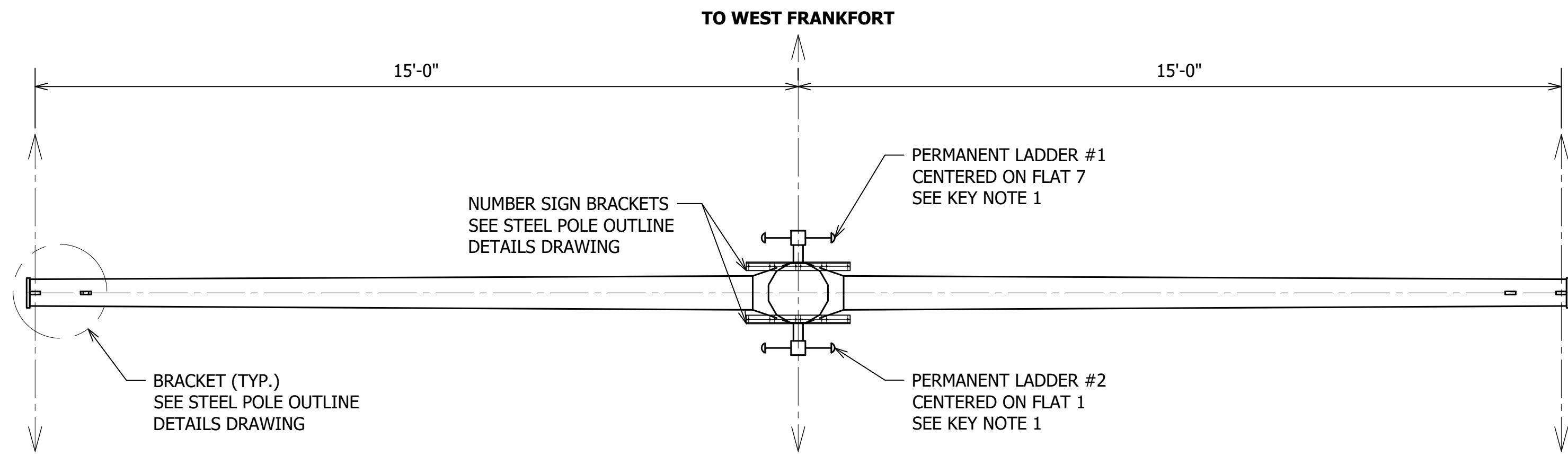


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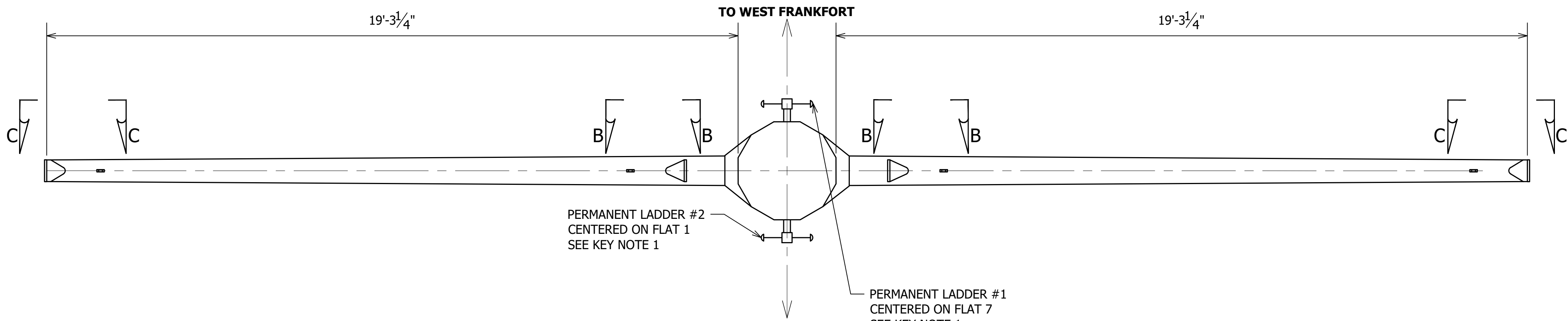
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STAKING DATA DETAILS	XXXXXX
HARDWARE ASSEMBLY LOCATION DRAWING	XXXXXX
GROUNDING & SIGN MOUNTING DETAILS	XXXXXX
DAMPER & SPLICE ASSEMBLY DETAILS	XXXXXX
HARDWARE ASSEMBLY DETAILS	XXXXXX
OPGW HARDWARE ASSEMBLY DETAILS	XXXXXX
STEEL POLE OUTLINE DETAILS	XXX012
FOUNDATION DRAWING	XXXXXX
LOAD TREE DRAWING	XXX026

 ILLINOIS REGISTRATION: 184-002365	LOAD TREE DRAWING XXX011										SHEET 1 OF 2	
	REV	DATE	DRF	DESCRIPTION	ENG	RWV	APPD		LINE CONSTRUCTION - 345/138 KV STEEL POLE OUTLINE TYPE DC-EPTV TANGENT STRUCTURE (0°-1°)			
B	07/19/2021	CCB	ISSUED FOR QUOTE	E125560	RMA	CDD	CDD					
C	08/27/2021	KPK	ISSUED FOR FABRICATION	E125560	RMA	CDD	CDD					
<p><u>NOTICE OF LIMITATION OF LIABILITY</u></p> <p>THE RESPONSIBILITY OF THE UNDERSIGNED ENGINEER IS LIMITED TO THE DESIGN WORK SHOWN ON PROJECT DRAWINGS AND DOCUMENTS BEARING HIS/HER SIGNATURE OR INITIALS. HE/SHE DOES NOT HAVE AUTHORITY OVER THE PROJECT AS A WHOLE. THE UNDERSIGNED EXPRESSLY DISCLAIMS ANY LIABILITY OR RESPONSIBILITY FOR ANY WORK DONE IN ANY SUBSEQUENT REVISIONS AND FOR ANY OTHER DOCUMENTS ASSOCIATED WITH THE PROJECT WHICH DO NOT BEAR HIS/HER SEAL, SIGNATURE OR INITIALS, OR ANY COMBINATION THEREOF. ALL RIGHTS RESERVED. THIS DRAWING MAY NOT BE REPRODUCED, USED OR ALTERED IN ANY WAY, IN WHOLE OR IN PART, WITHOUT THE PRIOR EXPRESS WRITTEN CONSENT OF AMEREN. COPYRIGHT 2019 AMEREN</p>								GRAND TOWER - WEST FRANKFORT			LO	
<p>DFR: CCB ENG: RMA RWV: CDD APPD: CDD</p>								DATE: 08/27/2021	SCALE: NONE	SUB CLASS:	DRAWING NUMBER XXX011	REV C

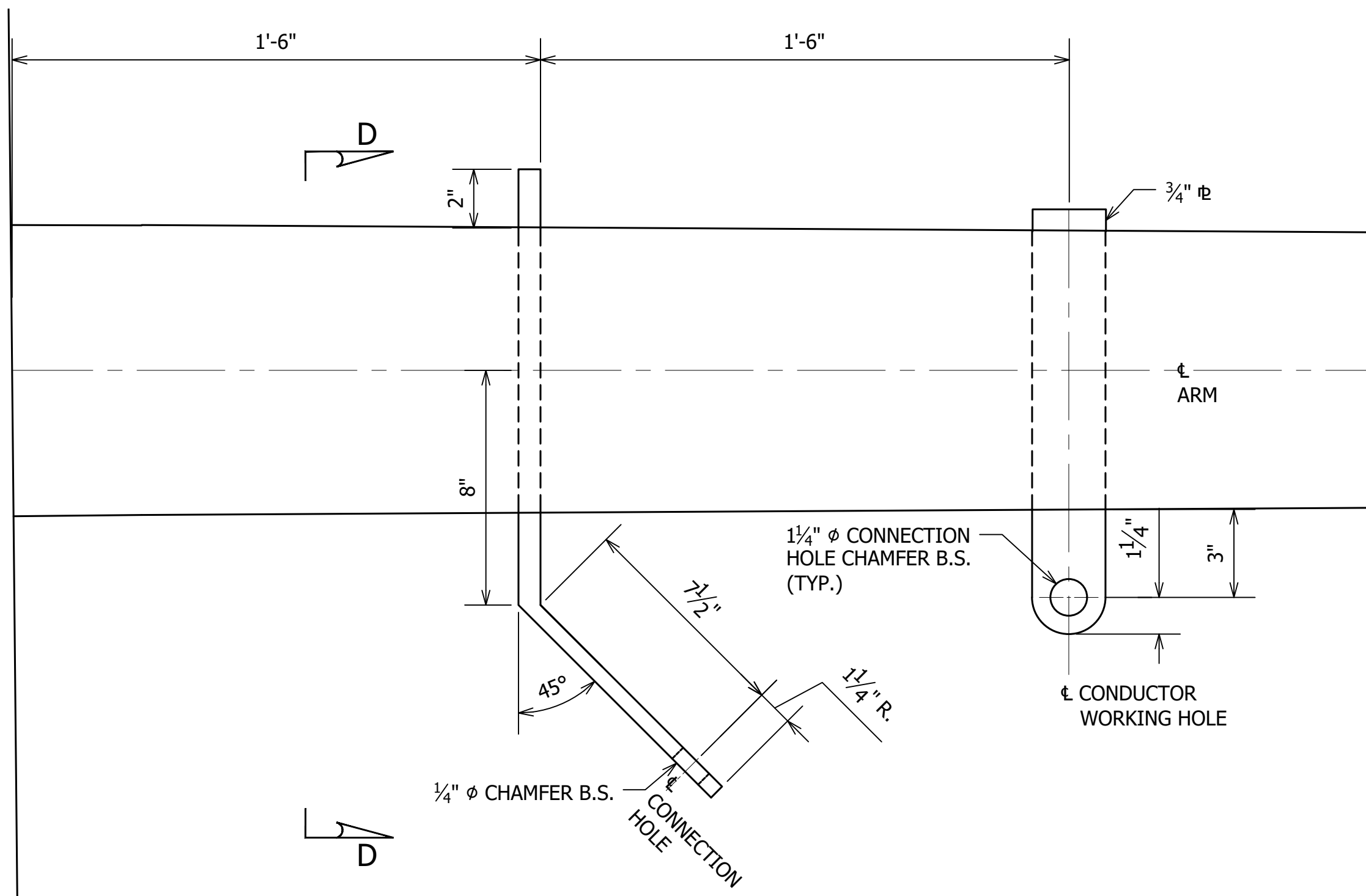
24 x 36 (inches)



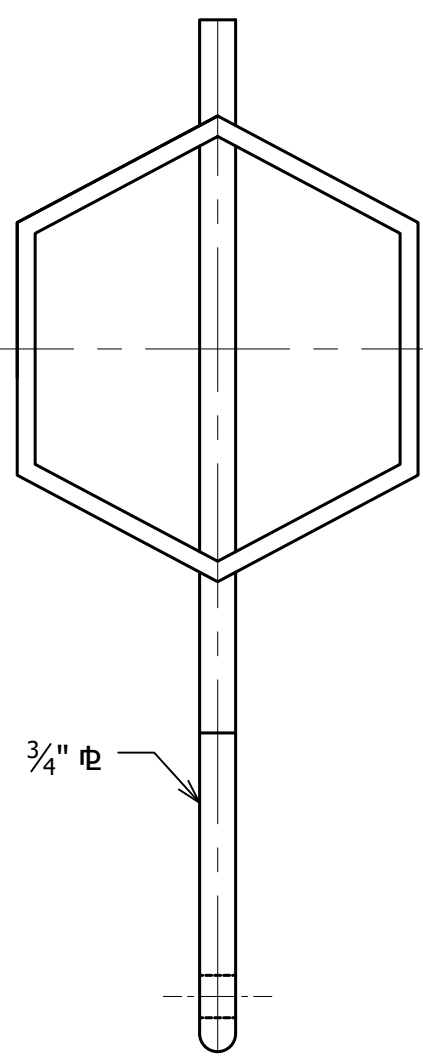
TO WEST FRANKFORT
PLAN @ LEVEL "A"
SEE KEY NOTE 2



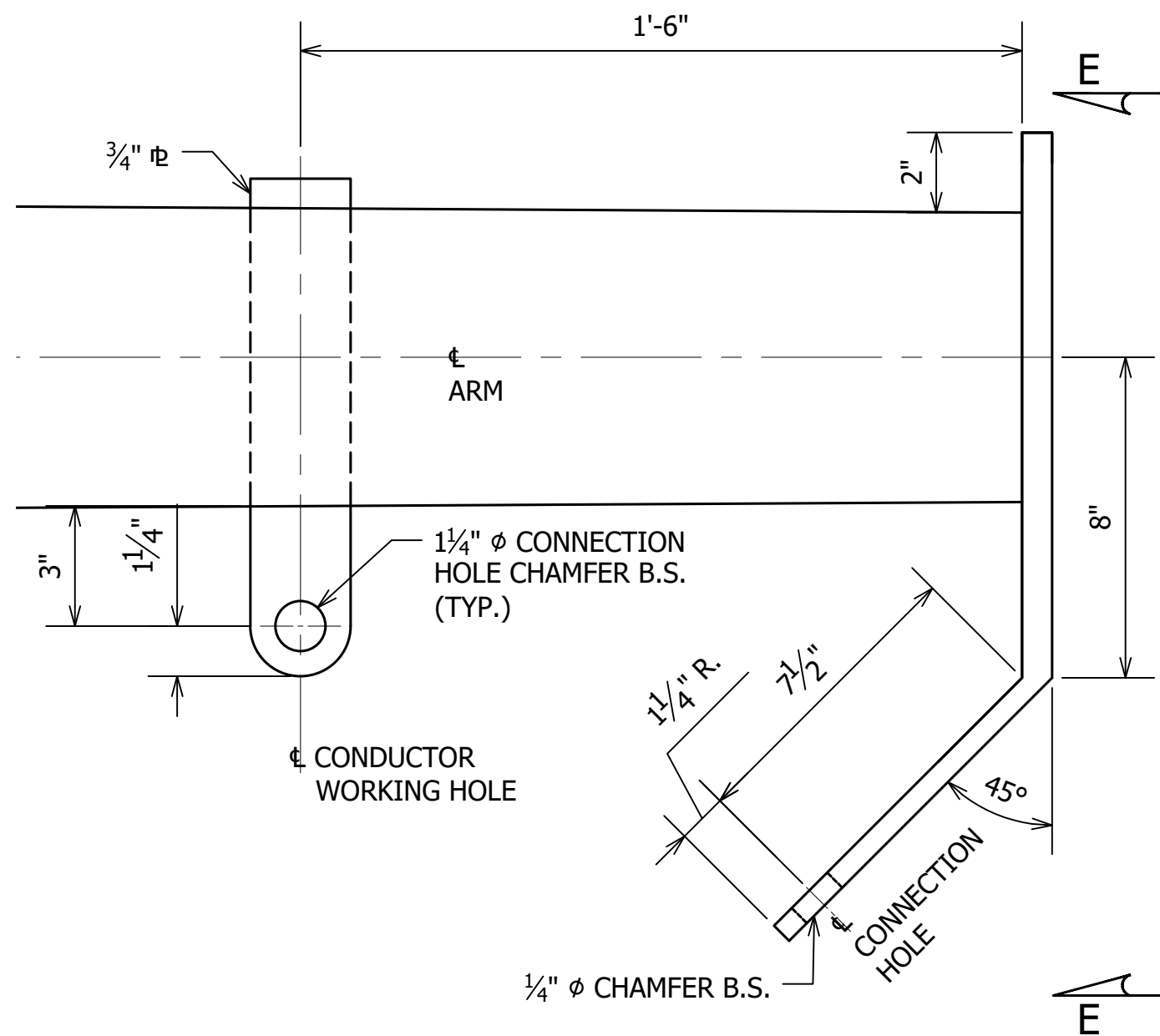
TO WEST FRANKFORT
PLAN @ LEVELS "B", "C" & "D"
SEE KEY NOTE 2



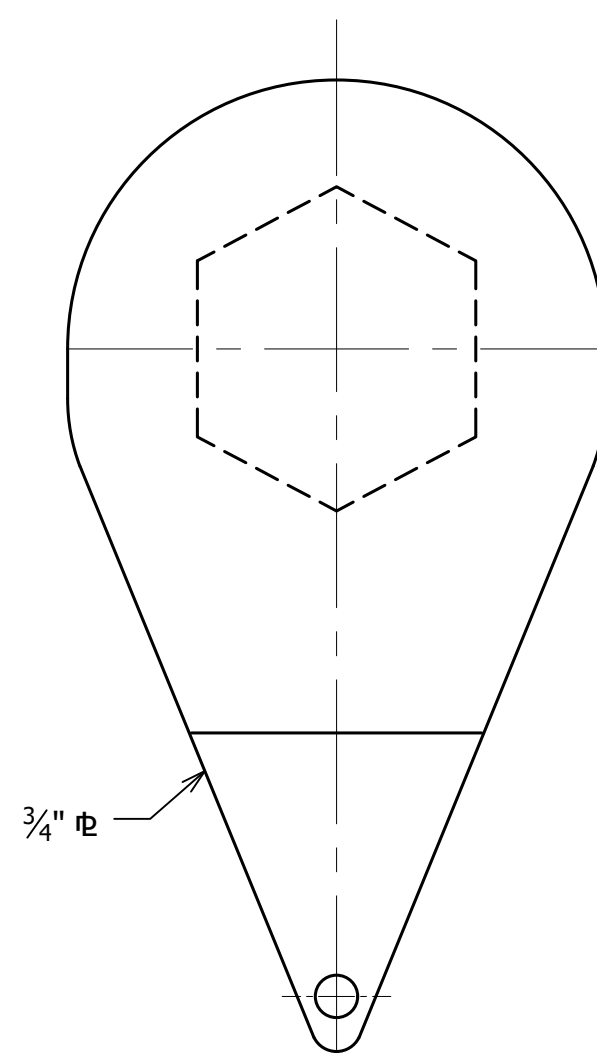
SECTION B-B



SECTION D-D



SECTION C-C



SECTION E-E

STRUCTURE TYPE: DC-EPTV	
POLE HEIGHTS	AMOUNTS
100	3
105	3
110	36
115	41
120	37
125	43
130	17
135	11
140	22
145	0
150	1
160	0

*These amounts are not official

GENERAL NOTES:

- DRAWING XXX011 IS COMPRISED OF 2 SHEETS. SEE SH. 1 FOR STRUCTURE ELEVATION.
- CONDUCTOR AND POST INSULATOR ATTACHMENT STEEL TO BE ASTM A572, GRADE 65.
- WORKING HOLES SHALL BE DESIGNED FOR EQUAL LOADS AS THE CORRESPONDING ATTACHMENT HOLE.
- ATTACHMENT VANGS SHALL BE DESIGNED FOR ± 10° FROM THE PULL OFF ANGLE.
- POLE SUPPLIER SHALL VERIFY THAT DIMENSIONS OF ALL SHIELD WIRE AND CONDUCTOR ATTACHMENTS PROVIDE CAPACITY FOR CONTROLLING PERMANENT WIRE LOADS.

KEY NOTES:

- ALL LADDERS SHALL BE CLIMBING LADDERS WITH FALL PROTECTION OR TIE-OFF LUGS INSTALLED ON LADDER CLIPS. FOR CLIMBING LADDER ASSEMBLY DETAIL AND LADDER CLIP DETAIL, SEE AMEREN SPEC. NO. TL-37, LATEST REVISION, UNLESS IDENTIFIED ON THIS DRAWING OR A REFERENCED DRAWING. POLE SUPPLIER SHALL INSTALL LADDER CLIPS ON POLE FOR ALL LADDERS. ADDITIONAL CLIMBING LADDERS TO BE UTILIZED AS REMOVABLE LADDERS SHALL ONLY BE PROVIDED BY THE POLE SUPPLIER WHEN IDENTIFIED IN THE PURCHASE ORDER.
- ATTACHMENT VANGS SHALL BE DESIGNED FOR ± 10° FROM THE PULL OFF ANGLES.

REFERENCE DRAWINGS:

STRUCTURE DATA SHEETS	XXXXXX
STAKING DATA DETAILS	XXXXXX
HARDWARE ASSEMBLY LOCATION DRAWING	XXXXXX
GROUNDING & SIGN MOUNTING DETAILS	XXXXXX
DAMPER & SPICE ASSEMBLY DETAILS	XXXXXX
HARDWARE ASSEMBLY DETAILS	XXXXXX
OPGW HARDWARE ASSEMBLY DETAILS	XXXXXX
STEEL POLE OUTLINE DETAILS	XXX012
FOUNDATION DRAWING	XXXXXX
LOAD TREE DRAWING	XXX026

SHEET 2 OF 2



POWER ENGINEERS
ILLINOIS REGISTRATION: 184-002365

REV	DATE	DRF	DESCRIPTION	ENG	R/VW	APPD
B	07/19/2021	CCB	ISSUED FOR QUOTE	E125560	RMA	CDD
C	08/27/2021	KPK	ISSUED FOR FABRICATION	E125560	RMA	CDD

NOTICE OF LIMITATION OF LIABILITY
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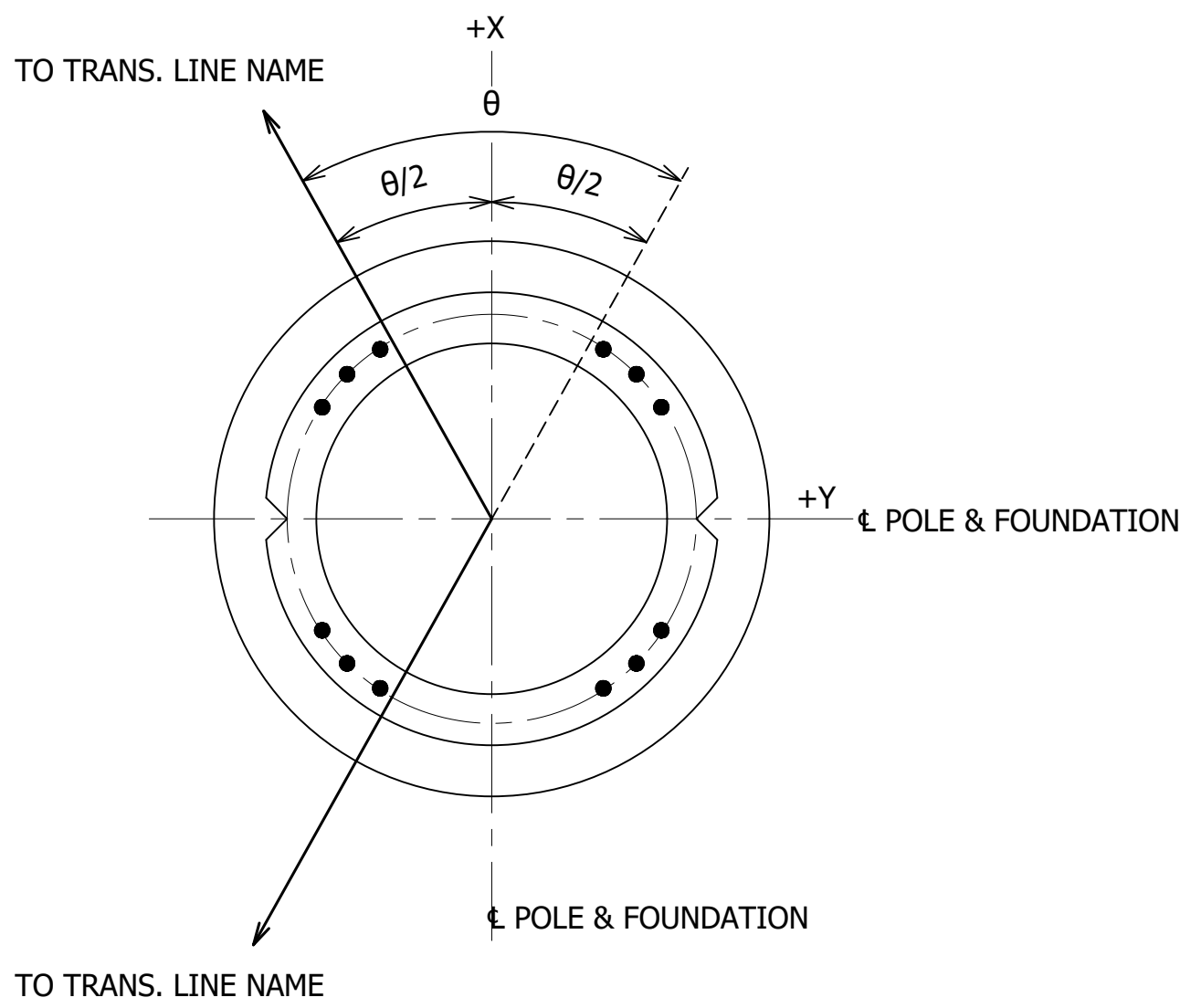
LINE CONSTRUCTION - 345/138 KV
STEEL POLE OUTLINE
TYPE DC-EPTV
TANGENT STRUCTURE (0°-1°)

GRAND TOWER - WEST FRANKFORT

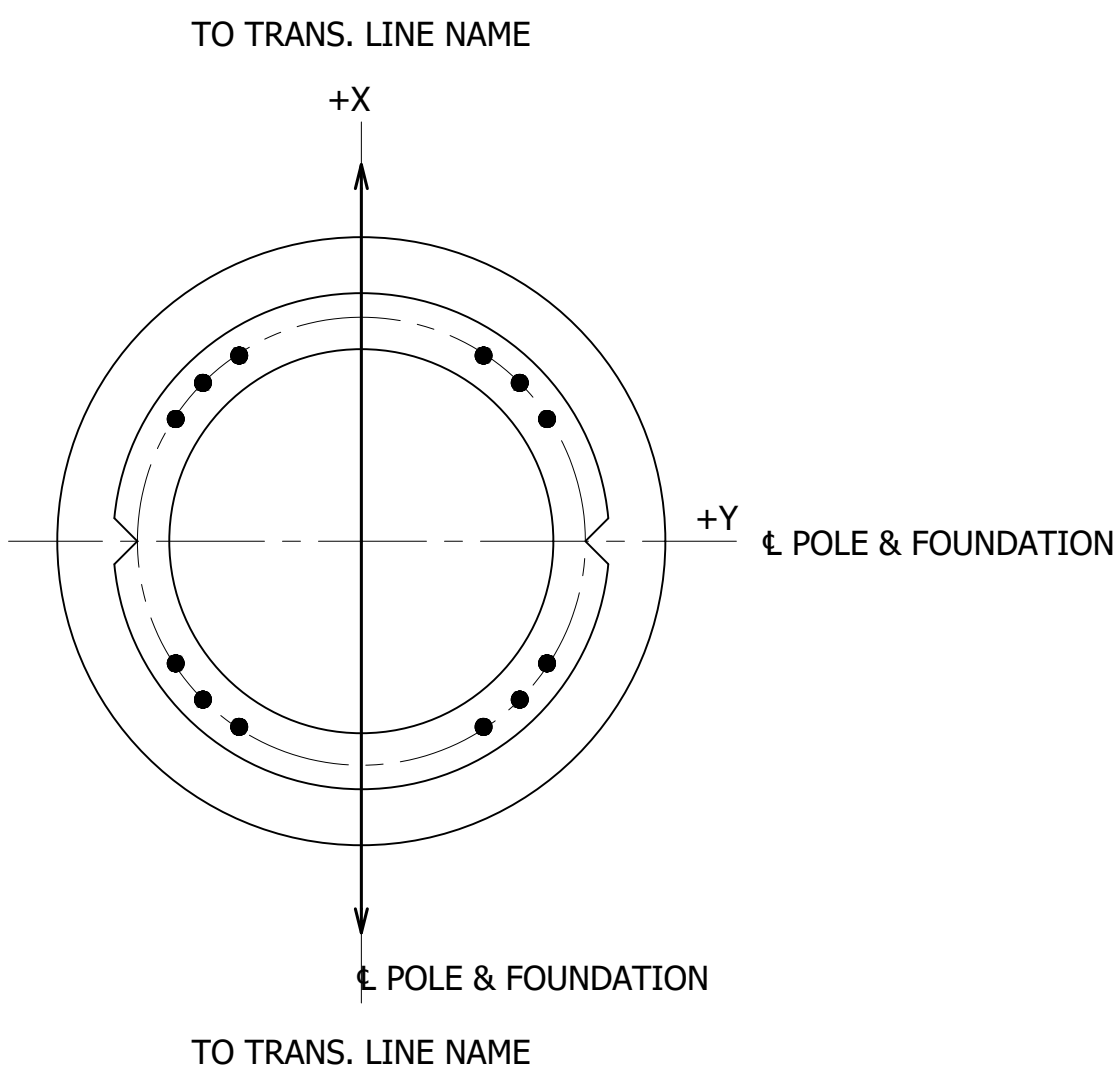
DFR: CCB	DATE: 08/27/2021	SCALE: NONE	SUB CLASS:
ENG: RMA	DRAWING NUMBER		REV
R/VW: CDD	XXX011		C
APPD: CDD			

XXX011

INSERT TABLE HERE. IF
TABLE IS TOO LARGE TO
FIT IN THIS AREA, MOVE
TO SHEET 2

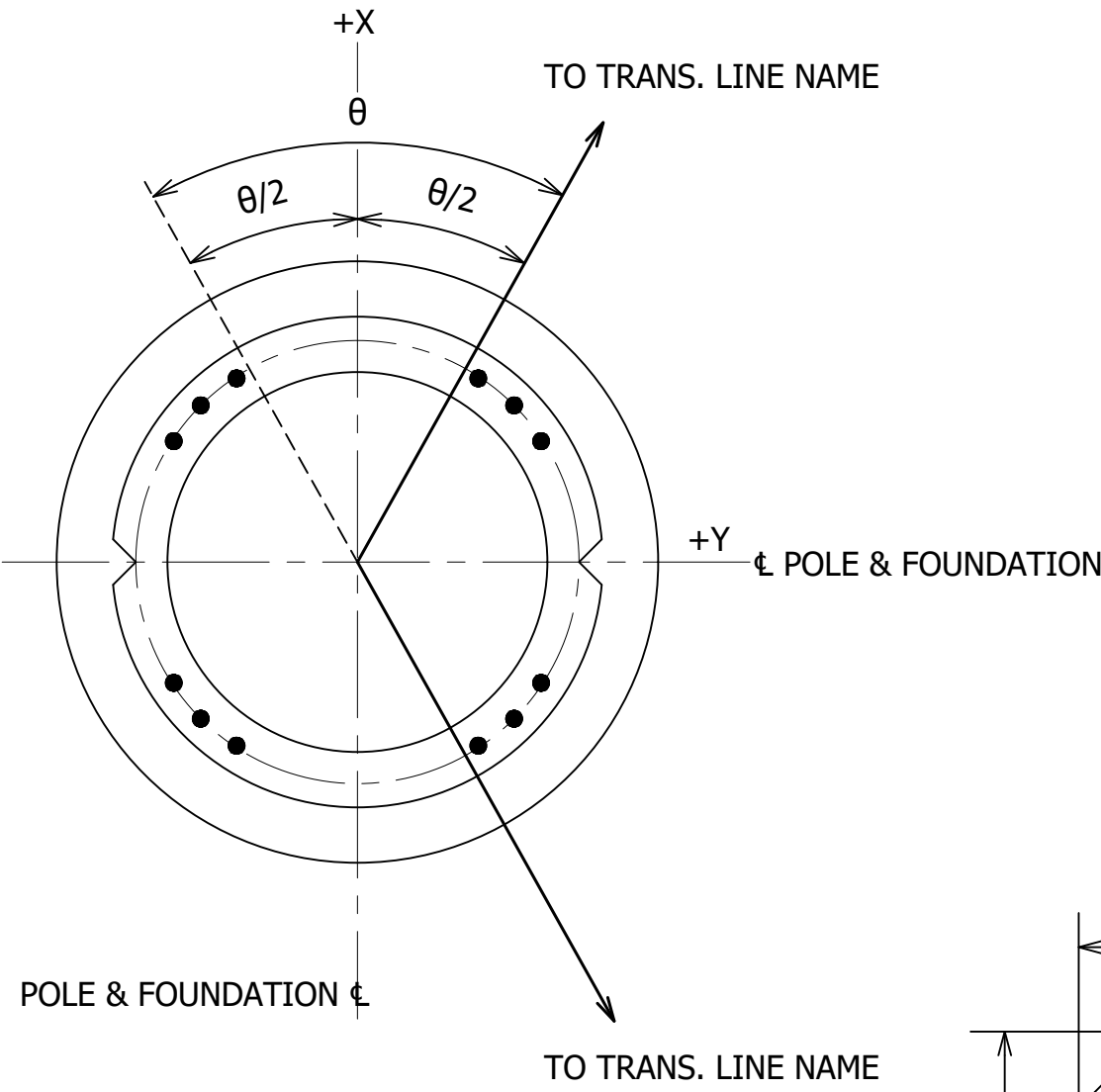


LEFT ANGLE DETAIL

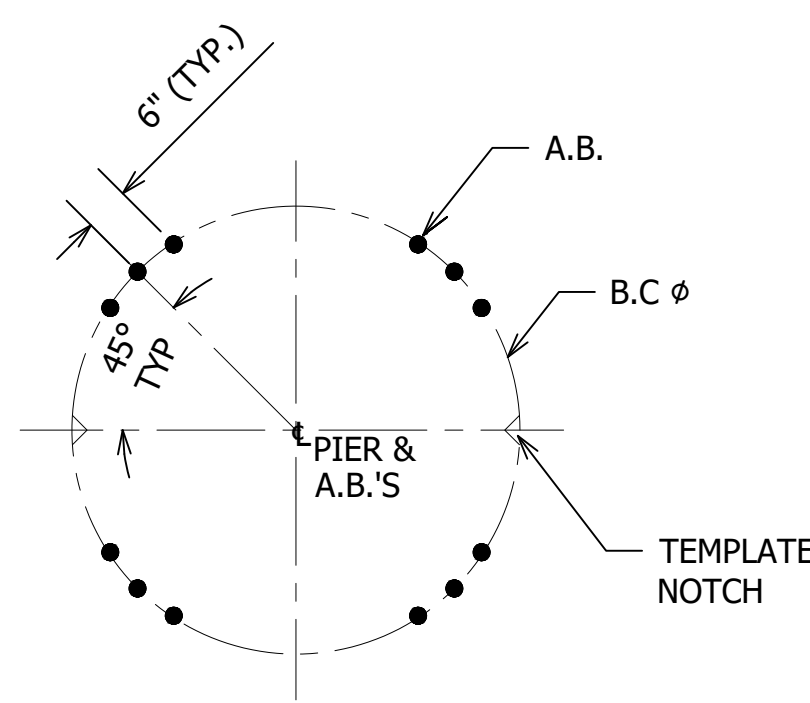


TANGENT DETAIL
TYPICAL FOUNDATION & POLE ORIENTATION PLANS

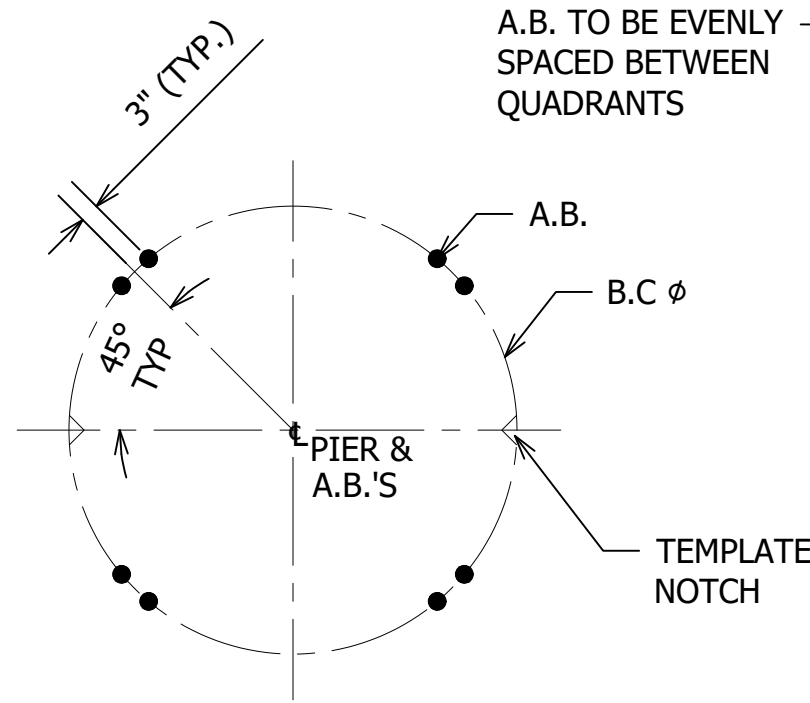
N.T.S.



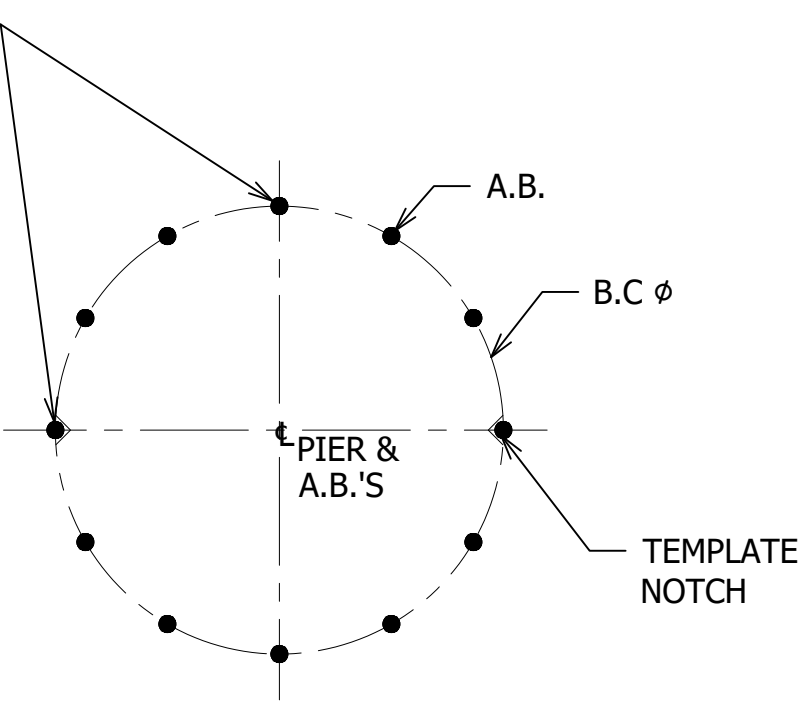
RIGHT ANGLE DETAIL



DETAIL 1
FOR ODD NUMBER DIVISIONS
OF ANCHOR BOLT PLACEMENTS



DETAIL 2
FOR EVEN NUMBER DIVISIONS
OF ANCHOR BOLT PLACEMENTS



DETAIL 3
FOR EQUALLY SPACED ANCHOR
BOLT PLACEMENTS

KEY NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH AMEREN SPECIFICATION TX-XXXX.
- CONCRETE TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI @ 28 DAYS, UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL BE DEFORMED BARS PER ASTM A615 GRADE 60.
- CONCRETE COVER OVER REINFORCING SHALL BE 4" UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE EQUALLY SPACED UNLESS OTHERWISE NOTED.
- ALL TIE LAPS (38 BAR DIAMETER MINIMUM) SHALL BE 180 DEGREES APART ALONG THE LENGTH OF THE PIERS.
- AS A MINIMUM, ALL TIES SHALL BE TIED OFF TO ALTERNATING REINFORCING BARS.
- REINFORCING CAGES SHALL BE SUPPORTED TO PROVIDE A 2" CLEAR COVER (4" MAXIMUM) TO TOP OF CONCRETE. CLEAR COVER AT BOTTOM OF REINFORCING CAGE TO BE 3" MINIMUM.
- REINFORCING CAGES SHALL BE PROVIDED A MINIMUM OF 1'-6" LONGER THAN THEORETICALLY REQUIRED, UNLESS OTHERWISE NOTED. EXTRA LENGTH OF THE CAGE SHALL BE SUPPLIED WITH TIES AT THE "T1" TIE SPACING. THESE EXTRA TIES ARE INCLUDED IN THE FOUNDATION SUMMARY TABLE.
- IF ROCK IS ENCOUNTERED AT A DIFFERENT ELEVATION THAN NOTED ($\pm 1'$), DRILLING SHALL CONTINUE AND A STRUCTURAL ENGINEER FROM AMEREN SHALL BE CONTACTED IMMEDIATELY FOR FURTHER GUIDANCE.
- MECHANICAL SPLICES TO BE LOCATED 2' OR GREATER BELOW ANCHOR BOLT CAGE.
- IF PROJECTION FORM IS LARGER THAN DESIGN PIER DIAMETER BY MORE THAN 1'-0", CONTACT AMEREN ENGINEER FOR INSTRUCTIONS ON EXTRA REINFORCEMENT REQUIREMENTS.
- ALL CONCRETE POURS SHALL BE MONOLITHIC. USE THE CONSTRUCTION KEY DETAIL ONLY WHEN A COLD JOINT IS UNAVOIDABLE DUE TO AN EMERGENCY.
- PROVIDE A $\frac{3}{4}$ " CHAMFER ON ALL EXPOSED EDGES.
- ANCHOR BOLTS ARE FURNISHED BY STRUCTURAL STEEL SUPPLIER.
- CORRUGATED METAL PIPE MAY BE USED AS PERMANENT CASING FOR THE UPPER SECTION PIER. A FLOWABLE MATERIAL SHALL BE PLACED BETWEEN THE SOIL AND THE CORRUGATED METAL PIPE. HOWEVER, CORRUGATED METAL PIPE SHALL BE CUT OFF 2'-0" BELOW GROUND LEVEL AND REMOVABLE CIRCULAR SMOOTH STEEL FORMS SHALL BE USED TO FORM THE PIER PROJECTION. THE USE OF PERMANENT CASING SHALL BE LIMITED TO 10' BELOW GRADE.
- LINE ANGLES IN THE TABLE ARE APPROXIMATE AND SHALL BE USED FOR REFERENCE ONLY. AMEREN TO PROVIDE FINAL STAKING IN THE FIELD.

REFERENCES:

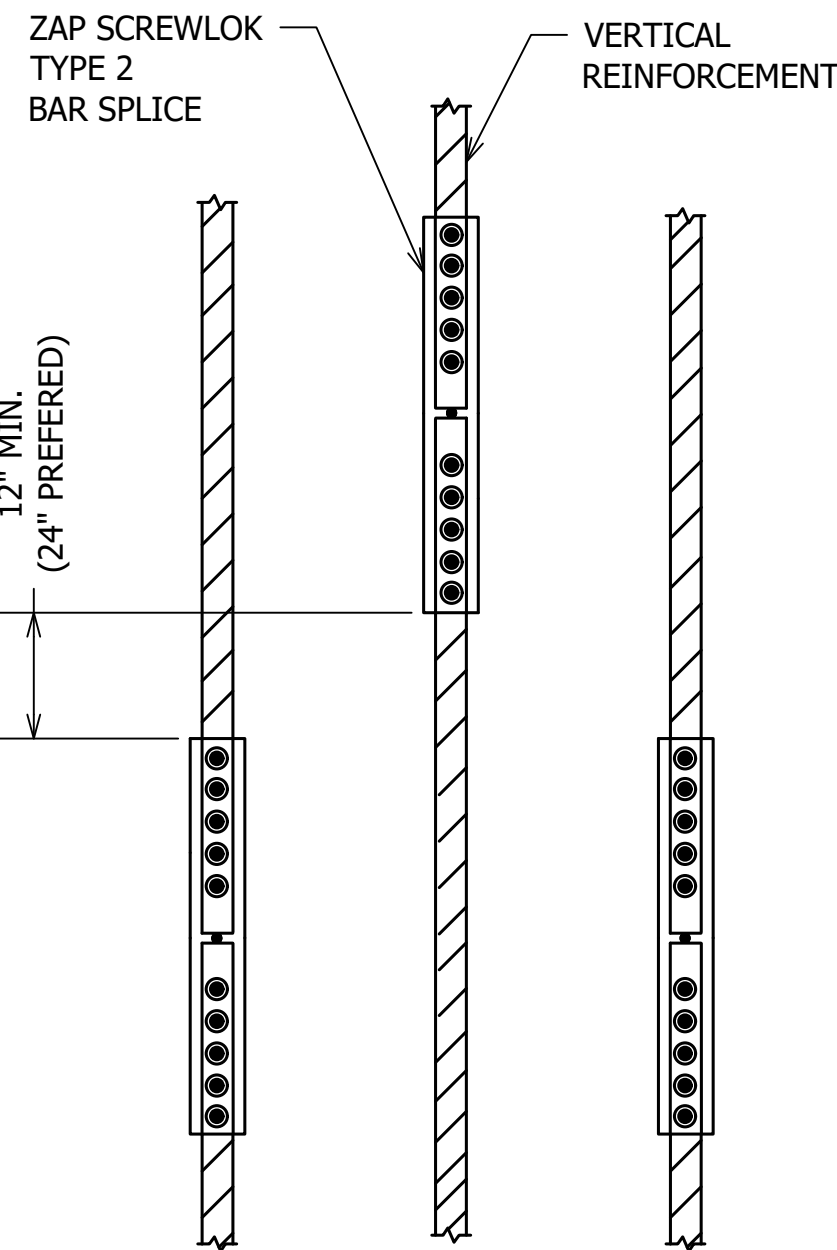
POLE OUTLINE DRAWING.....
LOAD TREE DRAWING.....

STANDARD DRAWING NUMBERS
TO BE MADE JOB SPECIFIC

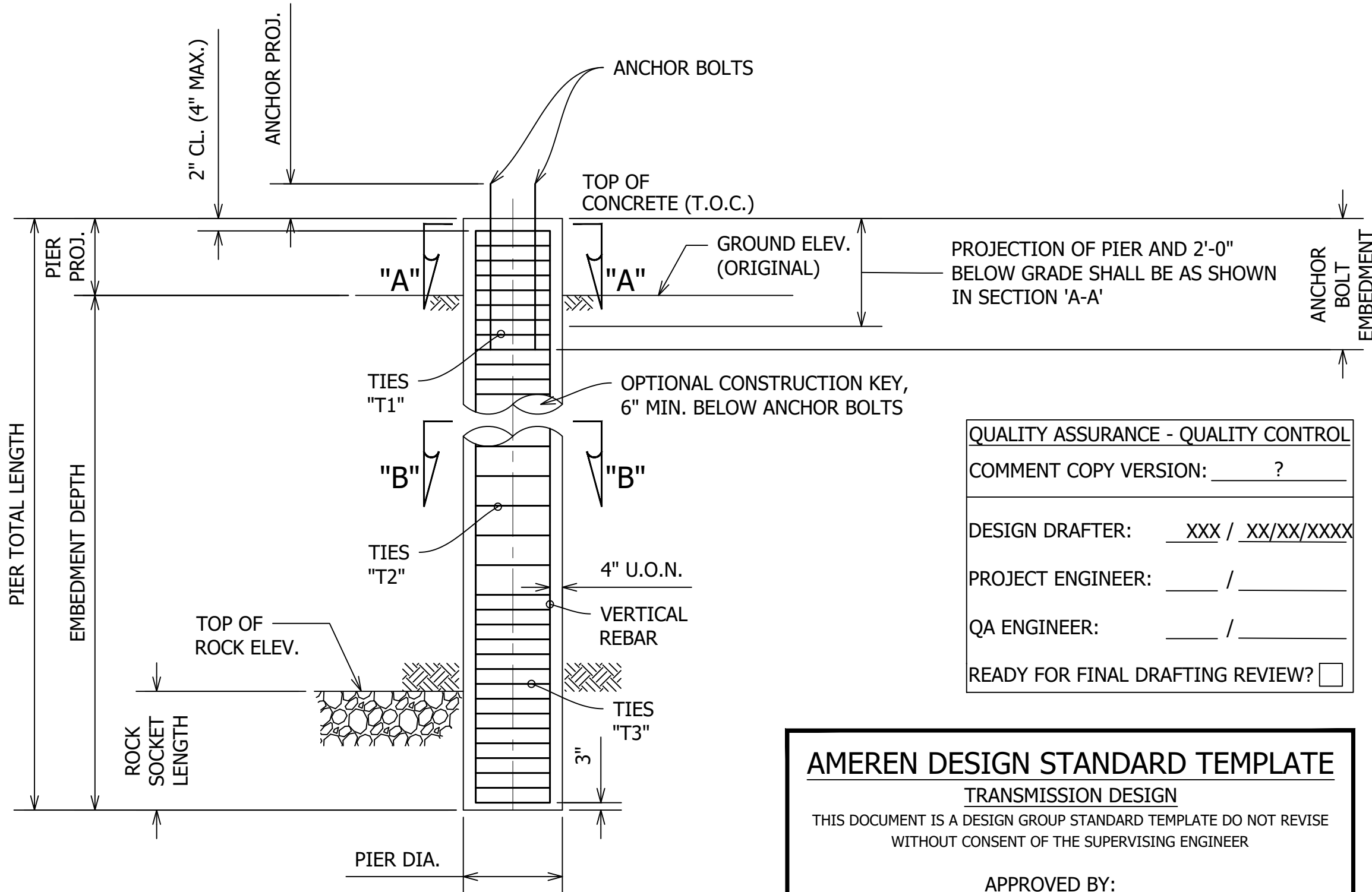
ENGINEER TO VERIFY VOLTAGE
USED PER PROJECT

ENGINEER TO VERIFY NUMBER OF
SHEETS USED PER PROJECT

SHEET 1 OF 2



MECHANICAL SPLICE OPTION
(INSTALL SPLICE PER MANUFACTURERS INSTRUCTIONS)
SEE NOTE 11 FOR LOCATION



FOUNDATION ELEVATION
N.T.S.

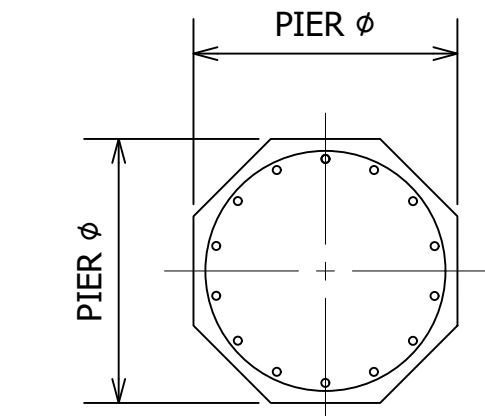
QUALITY ASSURANCE - QUALITY CONTROL	
COMMENT COPY VERSION:	?
DESIGN DRAFTER:	XXX / XX/XX/XXXX
PROJECT ENGINEER:	___ / ___
QA ENGINEER:	___ / ___
READY FOR FINAL DRAFTING REVIEW?	<input type="checkbox"/>

AMEREN DESIGN STANDARD TEMPLATE
TRANSMISSION DESIGN

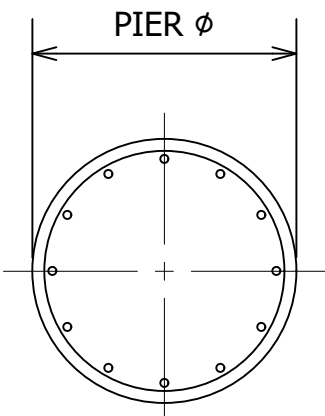
THIS DOCUMENT IS A DESIGN GROUP STANDARD TEMPLATE DO NOT REVISE
WITHOUT CONSENT OF THE SUPERVISING ENGINEER



APPROVED BY:
S. MILETIC 04/07/2021
MANAGER
TRANSMISSION DESIGN
DATE
S. BECK 04/07/2021
SUPERVISING OR SENIOR ENGINEER
TRANSMISSION DESIGN
DATE

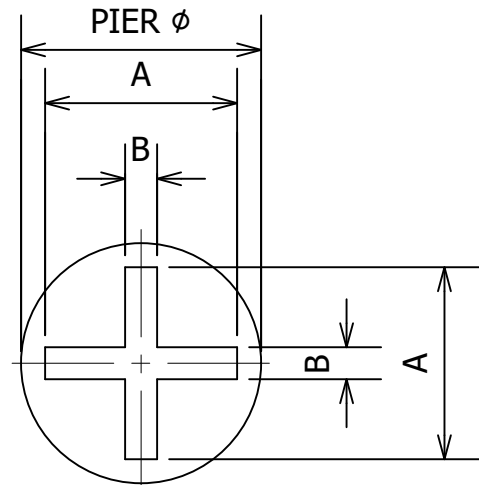


OCTAGONAL PIER OPTION



CIRCULAR PIER OPTION

SECTION 'A-A'



SECTION 'B-B'
(OPTIONAL)

CONSTRUCTION KEY DETAIL
(REQUIRED FOR ALL POURS
THAT ARE NOT MONOLITHIC)

CONSTRUCTION KEY TABLE			
PIER DIAMETER	DIM. A	DIM. B	DEPTH OF KEY
6'-0" OR 6'-6"	3'-6"	1'-2"	0'-8"
7'-0" OR 7'-6"	4'-0"	1'-4"	0'-8"
8'-0" OR 8'-6"	4'-6"	1'-6"	0'-8"
9'-0" OR 9'-6"	5'-0"	1'-8"	0'-8"
10'-0" OR 10'-6"	5'-6"	1'-10"	0'-8"
11'-0" OR 11'-6"	6'-0"	2'-0"	0'-8"
12'-0" OR 12'-6"	6'-6"	2'-0"	0'-8"

REV	DATE	DRF	DESCRIPTION	ENG	RVW	APPD
000	06/19/2020	EBS	FIRST ISSUE	E/J/S	ECP	AJM
001	04/07/2021	EBS	DETAIL MODIFICATIONS	E/J/S	SEB	BLC
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NOTICE OF LIMITATION OF LIABILITY			
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FOUNDATIONS CONCRETE -138/161/345 KV
POLE FOUNDATIONS
DRILLED PIERS

STANDARD				LOC
DFR: EBS	DATE: 06/19/2020	SCALE: NONE	SUB CLASS: 6700	
ENG: ECP	DRAWING NUMBER			REV
RVW: SEB	STND-M-000057			001
APPD: BLC				

STND-M-000057
2 x 3 1/2 (inches)