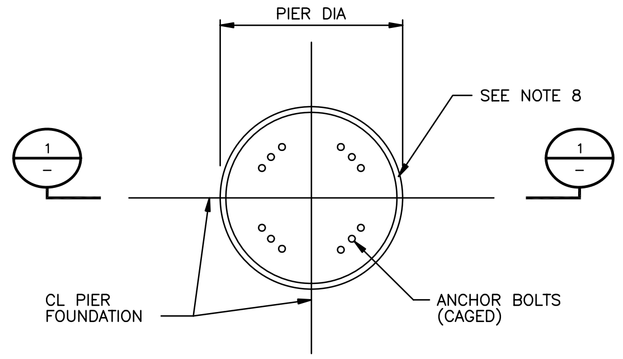
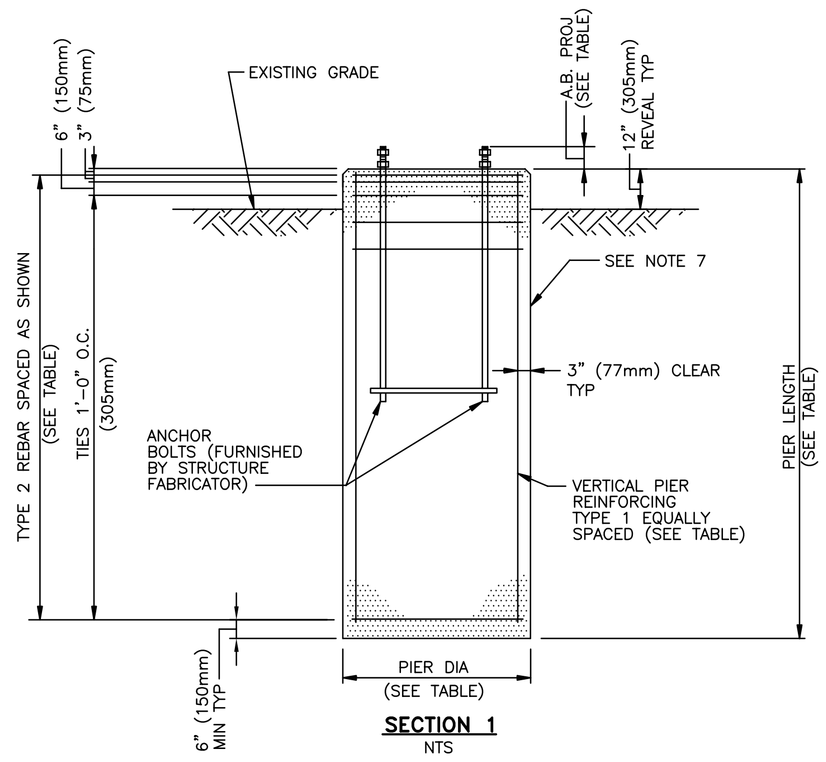


TYPICAL DRILLED PIER FOUNDATION PLAN

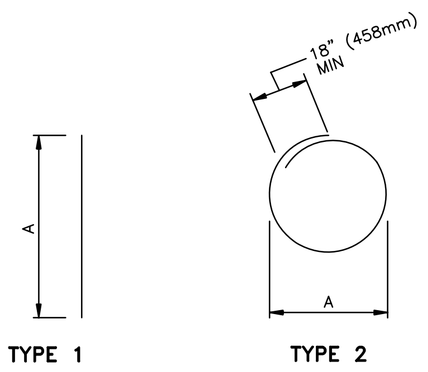
FOR STEEL TRANSITION STRUCTURES

NTS



SECTION 1

NTS



NOTE: DIMENSIONS ARE OUTSIDE TO OUTSIDE.

REINFORCING TYPES

NTS

STEEL STRUCTURE DRILLED PIER FOUNDATION SCHEDULE									DRILLED PIER REINFORCING SCHEDULE					
STR NO.	STR TYPE	STR HEIGHT	PIER SIZE		A.B. LENGTH(mm)	A.B. PROJ	APPROX A.B. CAGE WT	CU METER CONC PER PIER (SEE NOTE 9)	TYPE 1			TYPE 2		
			DIA	LENGTH					A	SIZE	NO/PIER	A	SIZE	NO/PIER
#1–NORTH	TRANSITION	85'–0" (25,908mm)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	N/A	N/A	N/A	N/A
#2–SOUTH	TRANSITION	85'–0" (25,908mm)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)	(LATER)

NOTES:

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, AND ACI 318.
2. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33. CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II. CONCRETE SHALL BE PROTECTED FROM LOSS OF MOISTURE FOR A MINIMUM OF 7 DAYS.
3. FORMED CONCRETE SURFACES WHICH WILL BE EXPOSED ABOVE GRADE SHALL BE CLEANED AND RUBBED TO PRODUCE A SMOOTH, UNIFORM SURFACE FREE OF MARKS, VOIDS, SURFACE GLAZE, AND DISCOLORATIONS.
4. ALL CONCRETE SHALL BE PLACED IN A SINGLE CONTINUOUS OPERATION TO PRODUCE A MONOLITHIC FOUNDATION.
5. ANCHOR BOLT CAGES WILL BE FURNISHED BY THE STRUCTURE FABRICATOR. CONTRACTOR SHALL VERIFY ANCHOR BOLT PROJECTION AND ORIENTATION OF ANCHOR BOLT CAGE WITH FABRICATORS DRAWINGS BEFORE CONSTRUCTION.
6. ANCHOR BOLT ALIGNMENT STAKING SHALL BE DONE BY CONTRACTOR.
7. STEEL CASINGS SHALL BE USED WHERE THE SIDES OF THE EXCAVATION ARE UNSTABLE. CASINGS MAY BE REMOVED AS THE CONCRETE IS PLACED OR LEFT IN PLACE AT THE CONTRACTOR'S OPTION. VOID AREA BETWEEN THE CASING AND THE EXCAVATION WALL SHALL BE FILLED WITH GROUT.
8. ALL ABOVE GRADE FOUNDATION EDGES SHALL HAVE A 3/4" (20mm) CHAMFER UNLESS NOTED OTHERWISE.
9. ALL QUANTITIES AND DIMENSIONS LISTED IN THE DRILLED PIER FOUNDATION AND REINFORCING SCHEDULES ARE BASED ON PRELIMINARY DESIGN INFORMATION AND ARE SUBJECT TO CHANGE.
10. SEE DRAWING 136462 – WSTR – PP01 FOR THE LOCATION OF THE #1 – NORTH TRANSITION STRUCTURE.
11. SEE DRAWING 136462 – WSTR – PP03 FOR THE LOCATION OF THE #2 – SOUTH TRANSITION STRUCUTRE.

KDOT PROJ. NO. 54-87 K-8258-01

Sheet No. 154 of 556

APPROVED FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
1	03/01/06	ISSUED FOR CONSTRUCTION	KDM	RWS	FLR	FLR	–
0	01/31/05	95% REVIEW ISSUE	MRJ	NTH	FLR	FLR	–

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF KANSAS

SIGNED _____

DATE _____ REG NO. _____

BLACK & VEATCH

ENGINEER NTH | DRAWN KDM | CHECKED RWS | DATE 03/01/06

WESTAR ENERGY COMPANY
US HIGHWAY 54/KELLOGG AVENUE PROJECT

69KV UNDERGROUND CABLE PROJECT
TRANSITION STRUCTURE FOUNDATION DETAILS

PROJECT 136462–WSTR–E008 | DRAWING NUMBER | REV 1

CODE

AREA

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