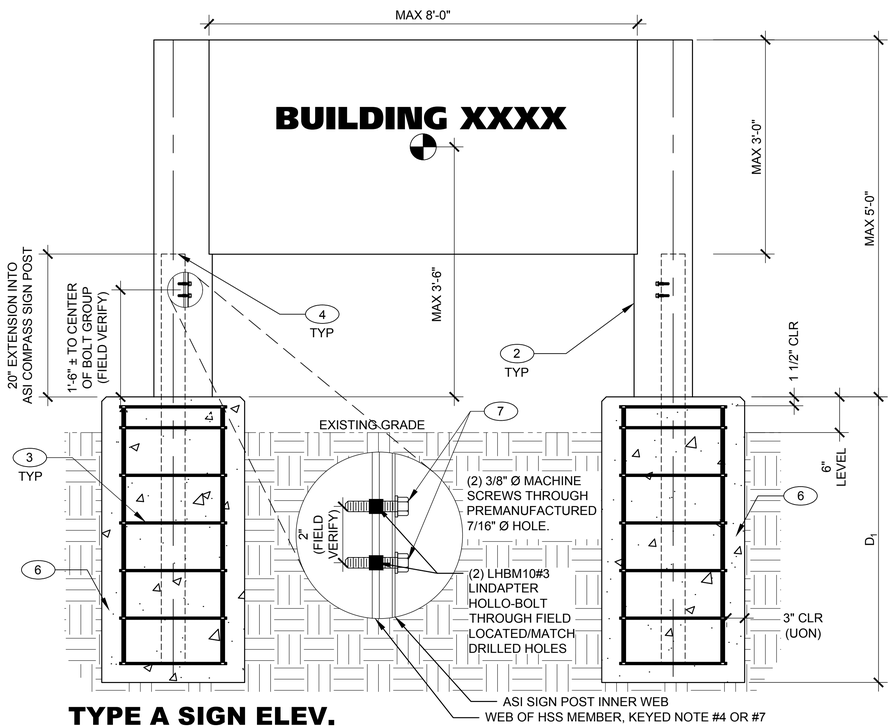
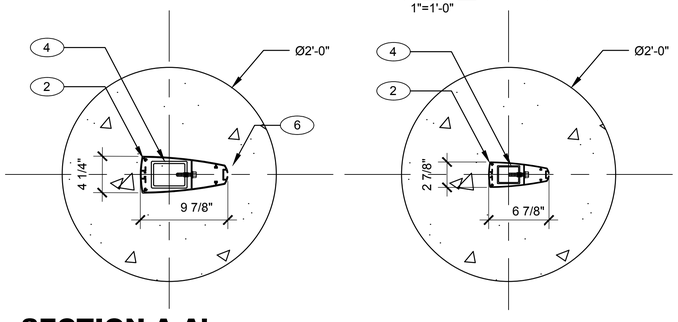


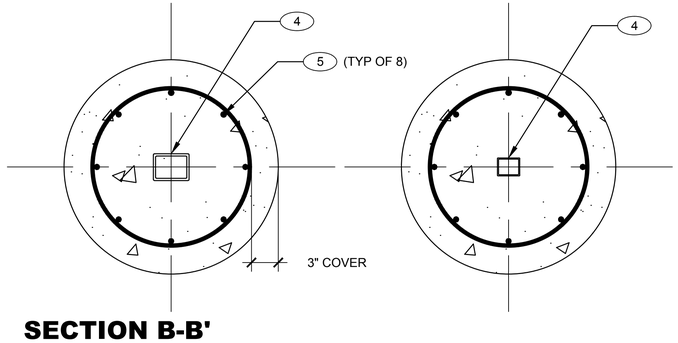
TYPE A SIGN ELEV.

1' 9" 6" 3" 0 1'
1"=1'-0"



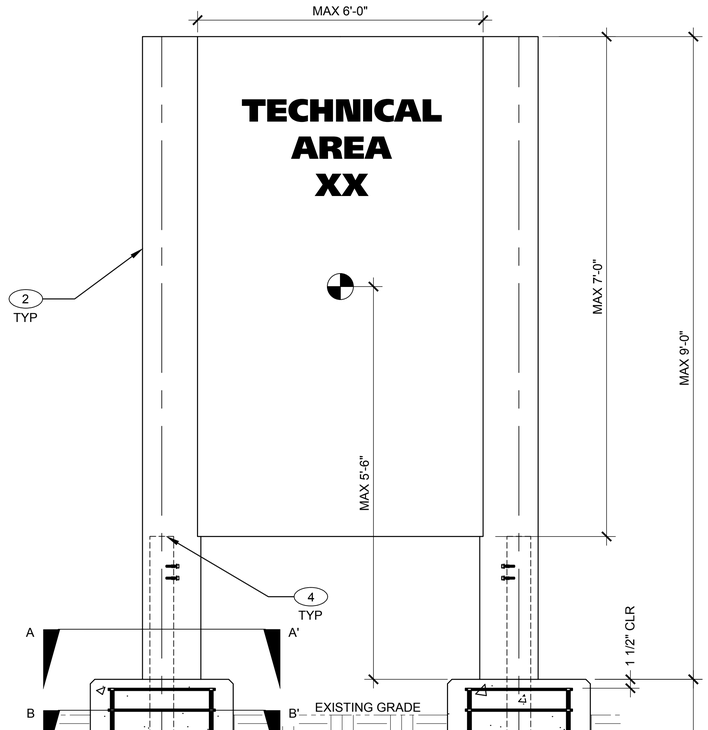
SECTION A-A'

4" 0 6" 1'
1 1/2"=1'-0"



SECTION B-B'

4" 0 6" 1'
1 1/2"=1'-0"



TYPE B SIGN ELEV.

1' 9" 6" 3" 0 1'
1"=1'-0"

SIGN PIER DEPTH (DEPTH OF CONCRETE)

SOIL CLASSIFICATION	$K_{ZT} \le 2.96$		$K_{ZT} \le 2.73$		$K_{ZT} \le 2.05$		$K_{ZT} \le 1.50$		$K_{ZT} = 1.00$	
	D_1	D_2	D_1	D_2	D_1	D_2	D_1	D_2	D_1	D_2
TUFF	3'-3"	4'-3"	3'-3"	4'-3"	2'-9"	3'-9"	2'-6"	3'-3"	2'-3"	3'-0"
SANDY GRAVEL/GRAVEL	4'-3"	5'-6"	4'-0"	5'-6"	3'-9"	4'-9"	3'-3"	4'-3"	2'-9"	3'-9"
SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, AND CLAYEY GRAVEL	4'-9"	6'-3"	4'-6"	6'-0"	4'-0"	5'-6"	3'-9"	4'-9"	3'-0"	4'-0"
CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, AND SANDY SILT	5'-6"	7'-3"	5'-6"	7'-0"	4'-9"	6'-3"	4'-3"	5'-6"	3'-9"	4'-9"

GENERAL NOTES

1. THIS MOUNTING DETAIL IS TO BE USED FOR SIGNS PLACED A MINIMUM OF 30 FT FROM EDGE OF ESTABLISHED ROADS.
2. THE 6-7/8" X 2-7/8" ASI COMPASS SIGN POST IN KEYED NOTE #2 SHALL ONLY BE USED FOR FREESTANDING BUILDING SIGNS. WHEREAS THE 9-7/8" X 4-1/4" POST MAY BE USED FOR BOTH FREESTANDING TECHNICAL AREA SIGNS AND FREESTANDING BUILDING SIGNS.

KEYED NOTES:

1. 1/2" Ø ASTM A36 THREADED ROD W/ ASTM A563 HEX NUTS AND ASTM A36 WASHERS, 10" EMBED. (TYP OF 8)
2. 6-7/8" X 2-7/8" OR 9-7/8" X 4-1/4" ASI COMPASS SIGN POST
3. #4 TIES (ASTM A615, GRADE 60) AT 8" O.C.
4. CONCRETE-FILLED, ASTM A500 GRADE B HSS 4X3X1/4 FOR LARGER ASI COMPASS SIGN POSTS AND HSS 2-1/2X2X1/4 FOR SMALLER POSTS.
5. (8) #4 VERTICAL REBAR (ASTM A615, GRADE 60) , EQUALLY SPACED, 3" CLEAR COVER
6. 5000 PSI (28 DAY) CONCRETE PIER, RADIAL 3/4" CHAMFER
7. AFTER INSTALLING MACHINE SCREWS, PLUG/SEAL OUTER MOST PRE-MANUFACTURED HOLES (*i.e.,* THE HOLES ON THE EXTERIOR OF THE ASI POST)

LEGEND

GEOMETRIC CENTER

NOTES TO EOR:

(DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.
2. COORDINATE WITH LANL MASTER SPECIFICATION 10 1405.
3. SIGNS INSTALLED WITHIN 30 FT OF EDGE OF HIGHWAY PAVEMENT SHALL BE DESIGNED W/ BREAKAWAY MOUNTINGS IN ACCORDANCE WITH HIGHWAY CODES AND STANDARDS.
4. SIGN TYPES:
   - FACE AREA* ≤ 24 SF & SIGN GEOMETRIC CENTER ≤ 3'-6" ABOVE BASE. (EX: FREESTANDING BUILDING SIGN - VARIES DEPENDING ON SIGN TEXT AND LAYOUT)
   - FACE AREA* ≤ 42 SF & SIGN GEOMETRIC CENTER ≤ 5'-6" ABOVE BASE. (EX: FREESTANDING TECHNICAL AREA SIGN - VARIES DEPENDING ON SIGN TEXT AND LAYOUT).

   * FACE AREA SHALL BE DETERMINED BY THE GEOMETRY OF THE NON-STRUCTURAL ROLL-FORMED SIGN FACE.
5. PIER DEPTH, CORRESPONDING TO THE PROJECT-SPECIFIC K_{ZT} (DETERMINED PER ASCE 7) AND SOIL CLASS, SHALL BE SELECTED FROM THE TABLE HEREIN.
6. DRAWING DEVELOPED FOR:
   - ML-3/ML-4 PROJECTS.
   - FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED.
7. SUPPORTING CALCULATION:
   - CAL-012-03-1414-0012-S-R1

00% REVIEW
NOT FOR CONSTRUCTION

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
3	8/6/18	UNCLASS	DY	REVISED TO MEET ESM CHAPTER 5, SECTION II, REV 10; UPDATED TO MEET CSM, SECTION 200, REV 5.	BDW	BDW	GJP	SCR	THO
2	11/17/14	U	EJS	CHANGED GRADE 40 REBAR TIES TO GRADE 60 & CLARIFIED INSTALLATIONS NEAR ROADS	SR	SR	ES	DC	TO
1	8/30/12	U	EJS	REVISED NOTES TO DESIGNER	SR	SR	RT	DC	TO

ENGINEERING STANDARDS

ARCHITECTURAL

SIGN BASE DETAIL & ALTERNATIVE

TA-XX BLDG XXXX

DRAWN	R.PEARSON
DESIGN	S.RICHARDSON
CHECKED	R.TROUT
DATE	5-17-04

SUBMITTED
DISCIPLINE POC: S.RICHARDSON

APPROVED FOR RELEASE
STANDARDS MANAGER: TOBIN ORUCH

Los Alamos NATIONAL LABORATORY
PO Box 1663
Los Alamos, New Mexico 87545

SHEET 9 OF 9

D.C.: U REVIEWER: ED SEAWALT DATE:

PROJECT ID: CHAPTER 4
DRAWING NO: ST-G2040-4
REV: 3