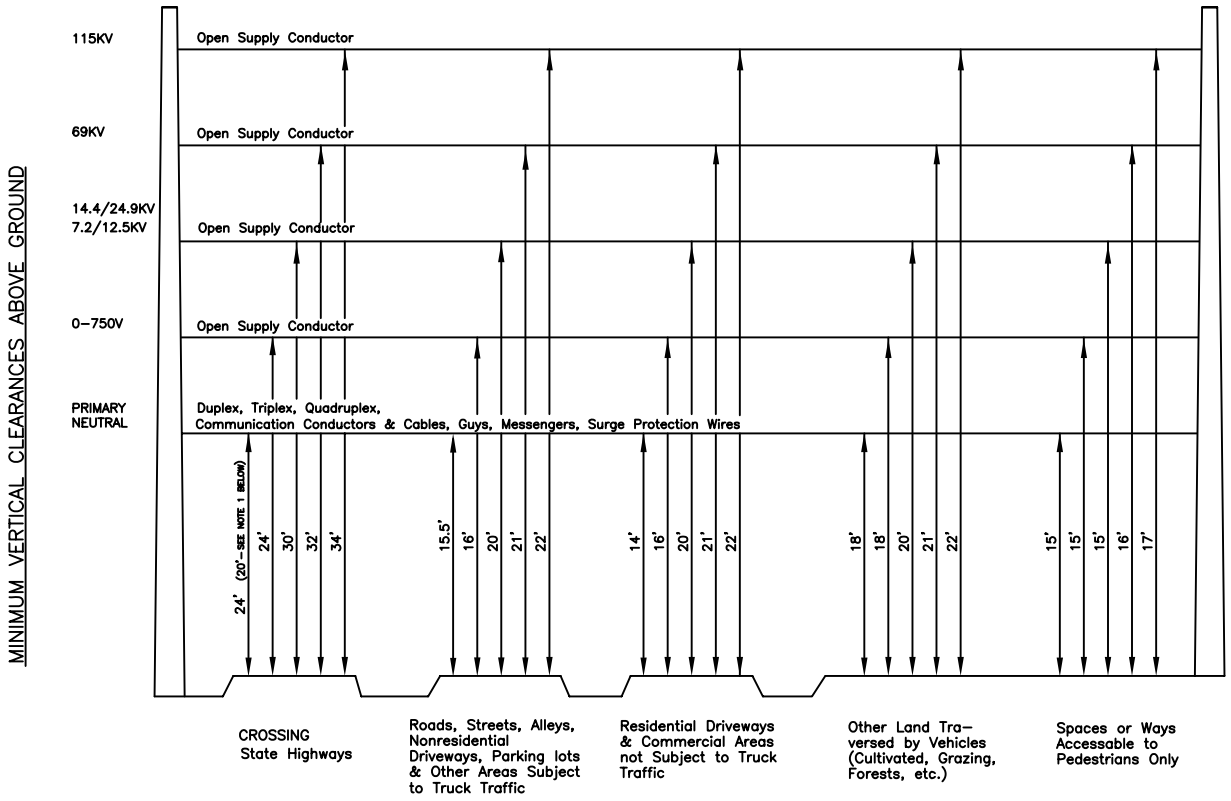
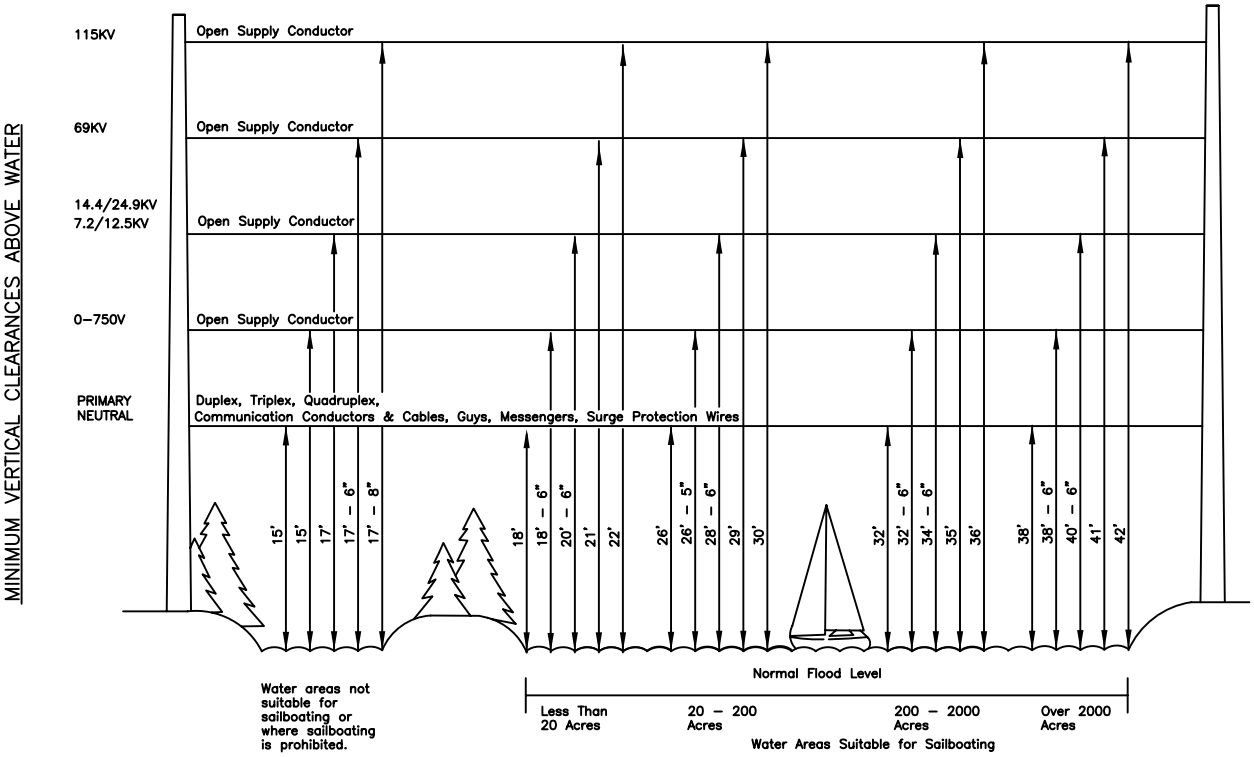


NOTES:

1. 20'= COMMUNICATIONS AND/OR CABLE TELEVISION JOINT USAGE WITH ELECTRICAL PER WAC 468–34–290



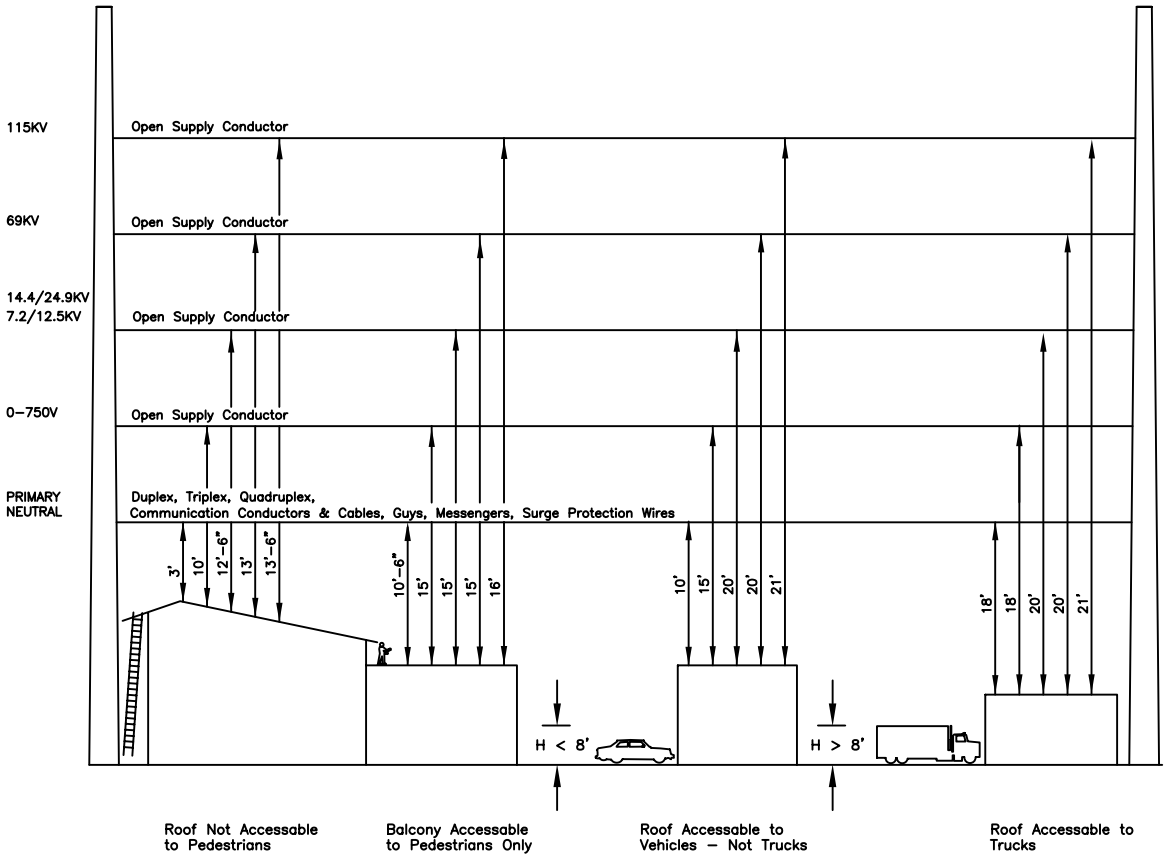
DATE: 08/20/04
REV: 09/23/07
DRAWN: JK/DT
CHK: JP
PG 1 OF 1
FILE: H:\ENGSTANDARDS\05 SPEC\2000\DET 1A

PD #1 of Skagit County

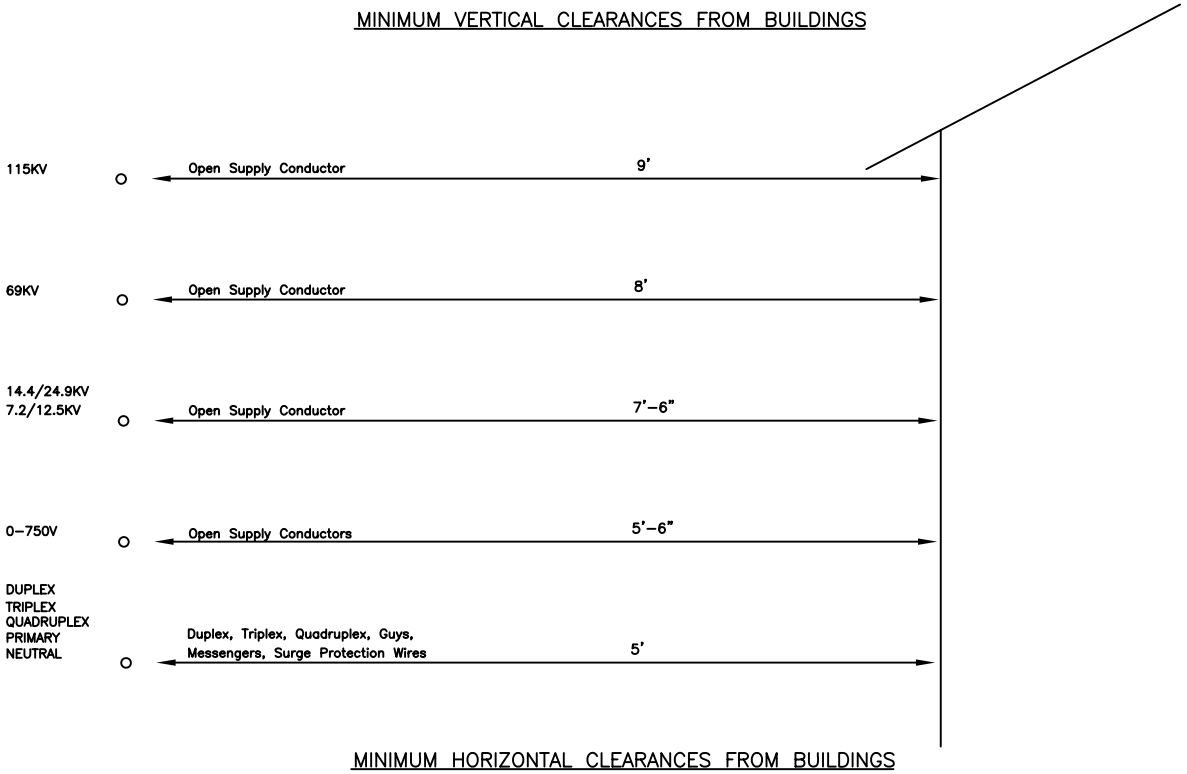
INSTALLATION SPECIFICATIONS
CLEARANCES, VERTICAL

Drawing #1a

2000



MINIMUM VERTICAL CLEARANCES FROM BUILDINGS



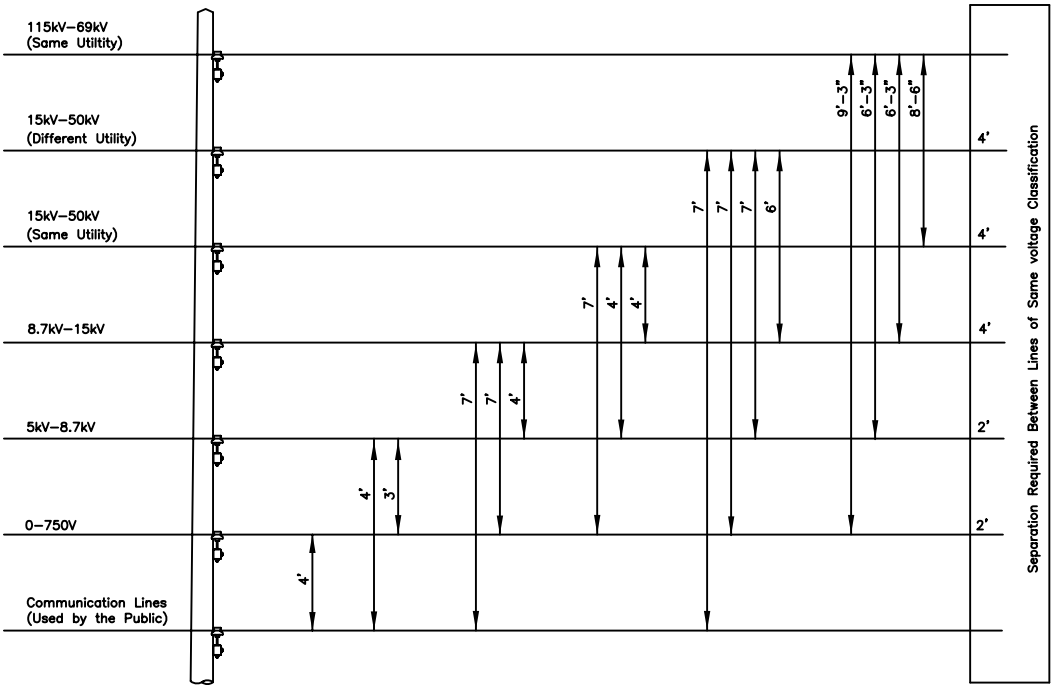
MINIMUM HORIZONTAL CLEARANCES FROM BUILDINGS

DATE: 08/20/04
REV: 09/23/07
DRAWN: JK/DT
CHK: JP
PG 1
OF 1
FILE: H:\ENGSTANDARDS\05 SPEC\2000\DET 1B

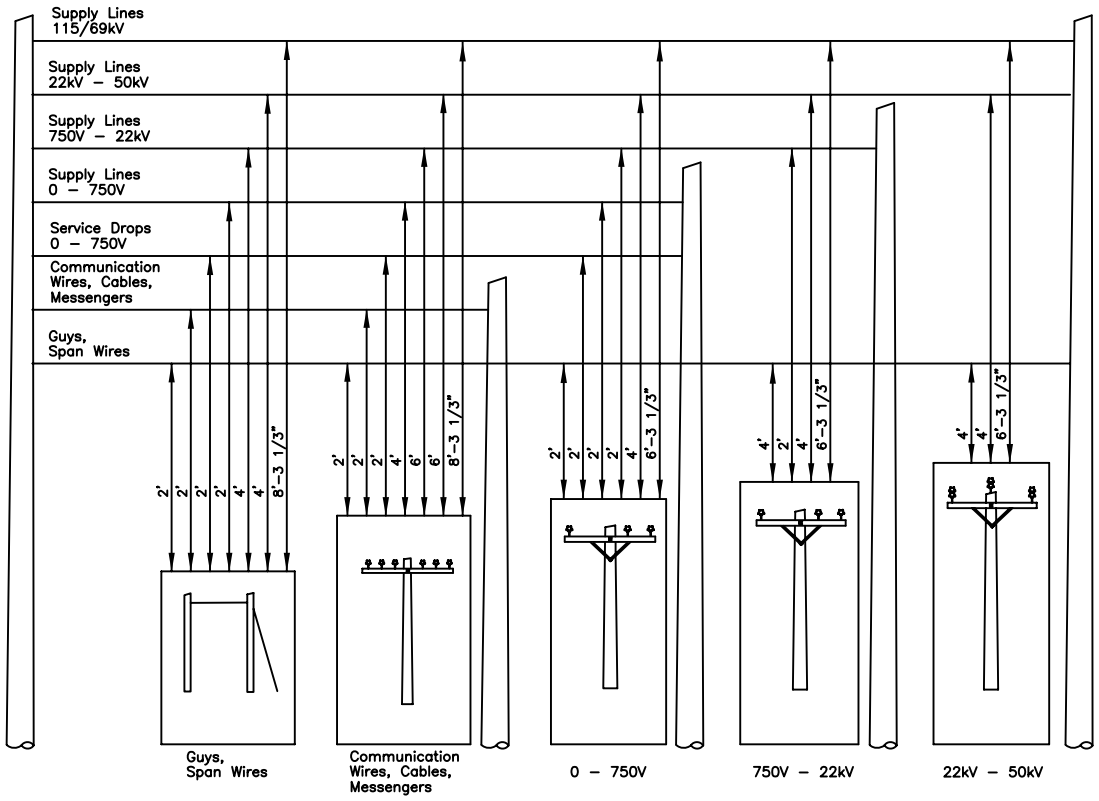
PD #1 of Gladwin County

INSTALLATION SPECIFICATIONS
CLEARANCES, VERTICAL AND HOROZONTAL TO BUILDINGS

Drawing #1b



MINIMUM VERTICAL CLEARANCES AT SUPPORTS BETWEEN LINE CONDUCTORS



MINIMUM VERTICAL CLEARANCE BETWEEN WIRES ON DIFFERENT SUPPORTS

VOLTAGES ARE PHASE TO PHASE

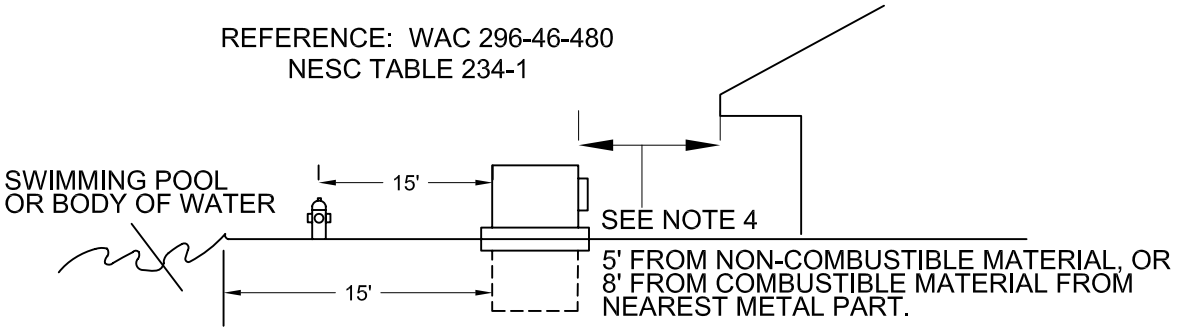
DATE: 08/20/04
REV: 09/23/07
DRAWN: JK/DT
CHK: JP
PG 1
OF 1
FILE: H:\ENGSTANDARDS\05 SPEC\2000\DETAIL 1C

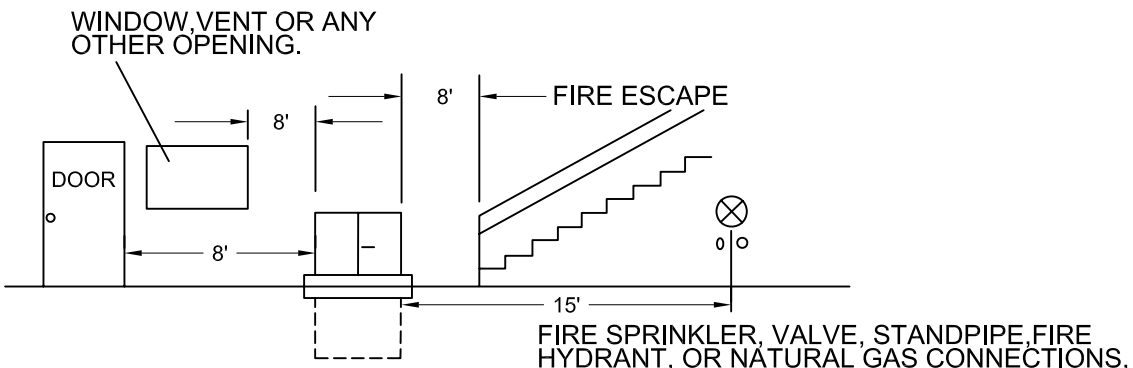
PD #1 of Gladwin County

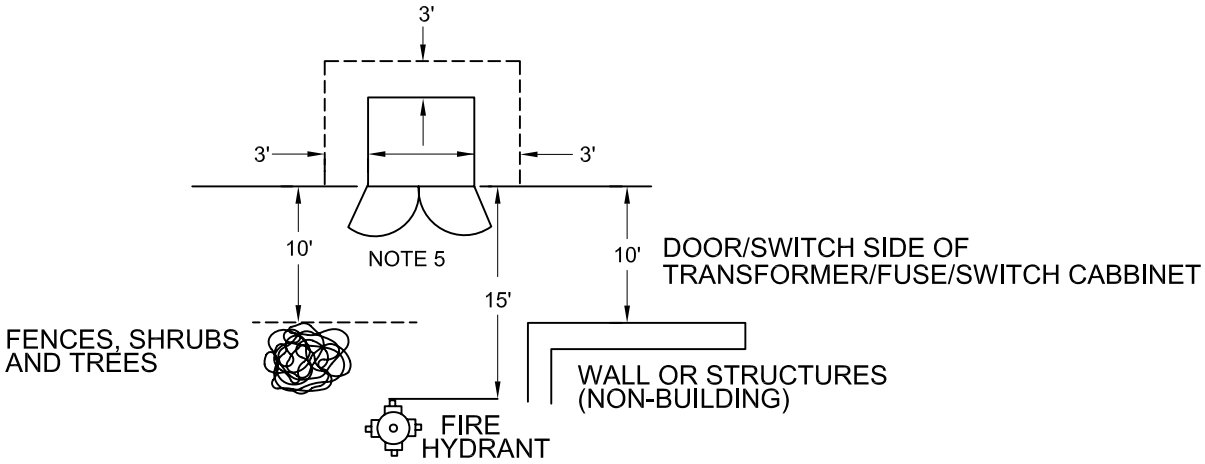
INSTALLATION SPECIFICATIONS
CLEARANCES BETWEEN CONDUCTORS AND WIRES

Drawing #1c

REFERENCE: WAC 296-46-480
NESC TABLE 234-1





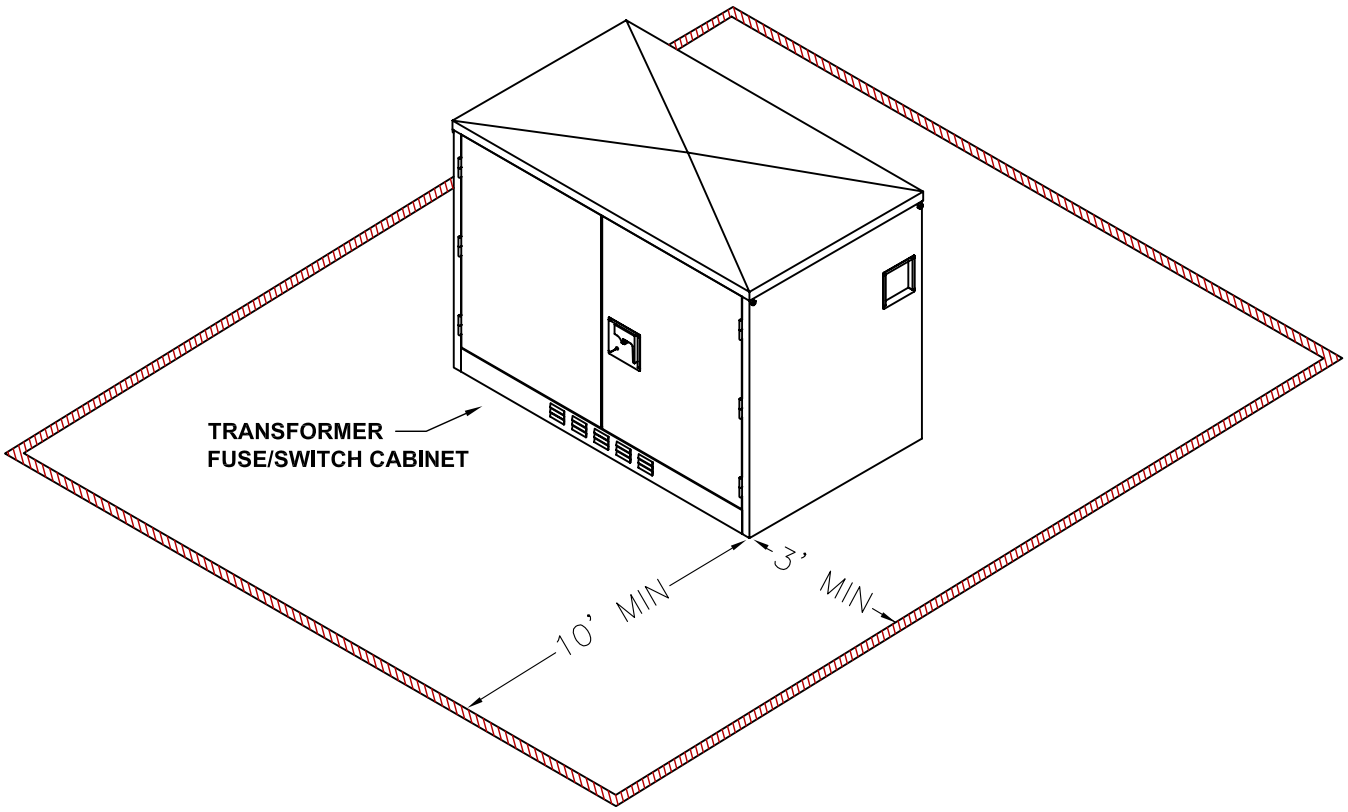


Notes:

1. ALL MEASUREMENTS FROM NEAREST METAL PART OF THE TRANSFORMER.
2. MINIMUM 20' CLEARANCE FROM COMBUSTIBLE FUEL STORAGE TANKS.
3. PADMOUNT EQUIPMENT SHALL BE NOT MORE THAN 15' FROM ACCESS ROAD OR DRIVEWAY.
4. NON-COMBUSTIBLE: BRICK, CONCRETE, STEEL AND STONE.
5. LANDSCAPING WHICH DOES NOT INTERFERE WITH OPERATION AND MAINTENANCE OF THE TRANSFORMER IS ALLOWED.
6. GROUND MUST SLOPE AWAY FROM BUILDING FOR TRANSFORMER INSTALLATION SHOWN.

DATE: 08/20/04 REV: 02/06/05 DRAWN: JK/DT CHK: RA/DP PG 1 OF 1 FILE: H:\ENGSTANDARDS\05 SPEC\2000\CABINET-CLEARANCE	**GROUP:** INSTALLATION SPECIFICATIONS **DETAIL:** PADMOUNT CLEARANCE	
	DIMENSIONS:	**Drawing #2**

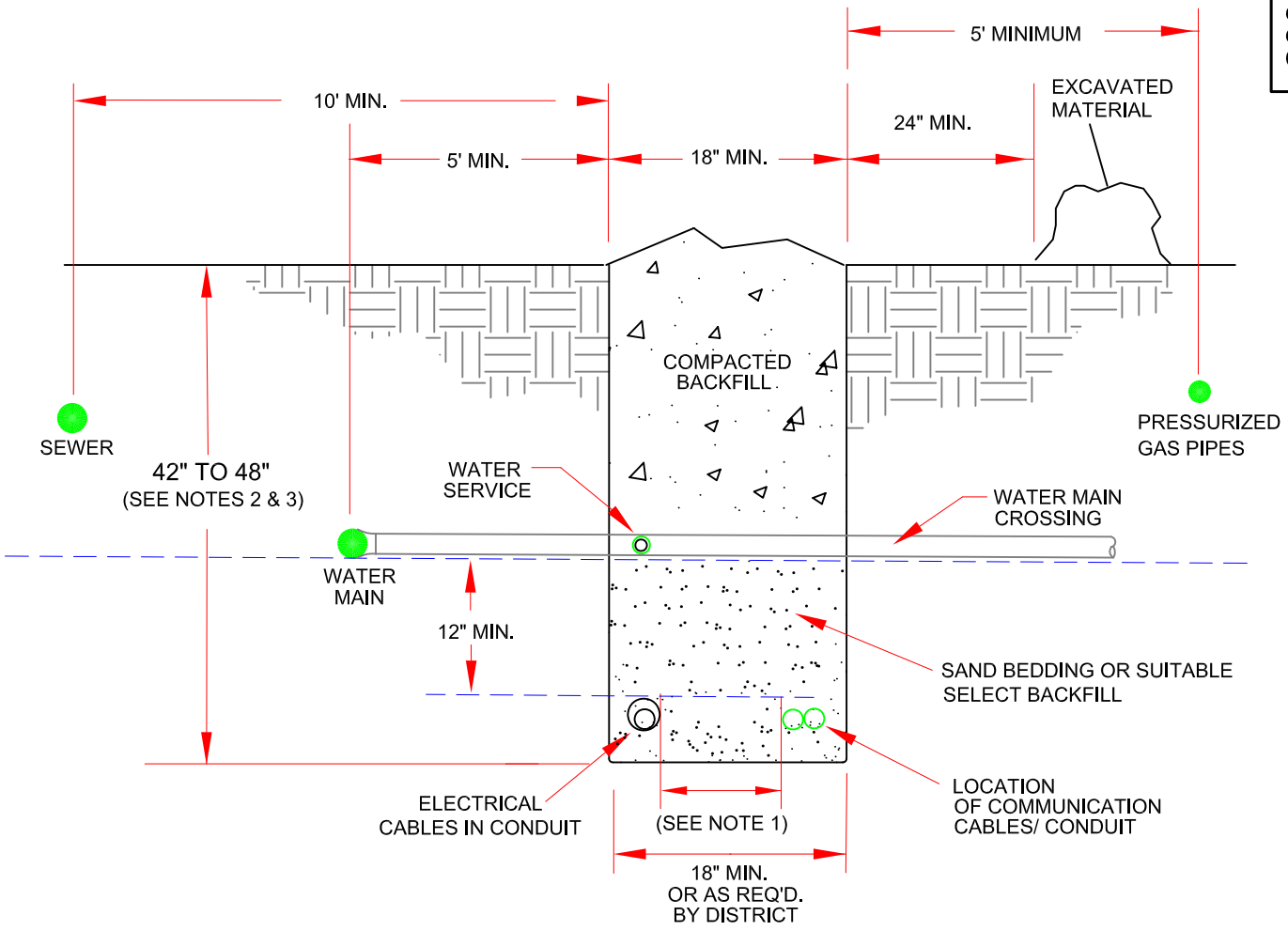
2000



KEEP THIS AREA CLEAR - WE NEED ROOM TO WORK SAFELY ON THIS EQUIPMENT

DATE: 08/20/04 REV: 02/06/05 DRAWN: JK/DT CHK: RA/DP PG 1 OF 1 FILE: H:\ENGSTANDARDS\05 SPEC\2000\CABINET-CLEARANCE	**GROUP:** INSTALLATION SPECIFICATIONS **DETAIL:** VAULT CLEARANCE	
	DIMENSIONS:	**Drawing #2A**

2000



PRIMARY OR SERVICE TRENCH

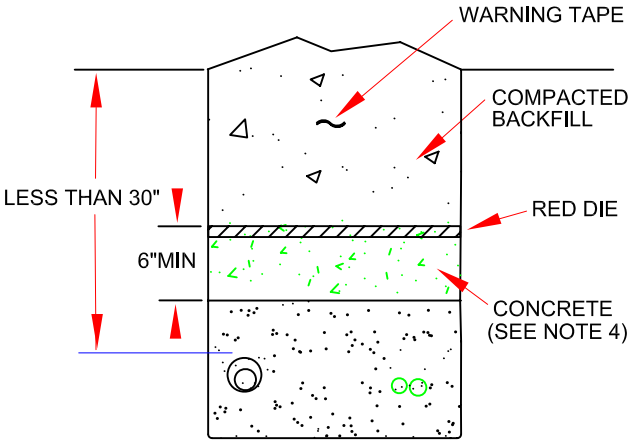
NOTES:

1. 12–INCH MINIMUM RADIAL SEPARATION IS REQUIRED EXCEPT WHERE RANDOM SEPARATION IS PERMITTED IN ACCORDANCE WITH NESC SECTION 354.

2. AN EXCEPTION TO MINIMUM TRENCH DEPTH MAY BE PERMITTED BY AUTHORIZED PERSONNEL DUE TO OBSTRUCTIONS OR ROCK SUBGRADE. IF DEPTH OF CONDUIT COVER IS LESS THAN 30–INCHES, THE CONDUIT SHALL BE PROTECTED BY A 6–INCH MINIMUM CONCRETE CAP AS SHOWN. (SEE DETAIL A & NOTE 4)

3. SEE WAC 296–155–657 FOR EXCAVATION, TRENCHING AND SHORING REQUIREMENTS.

4. MIMIMUM 2,500 PSI STRENGTH CONCRETE WITH RED DYE IDENTIFIER TO A DEPTH OF 1–INCH AND/OR WARNING TAPE LOCATED ALONG TRENCH CENTERLINE, 12–INCHES ABOVE CONCRETE. (SEE DETAIL A)

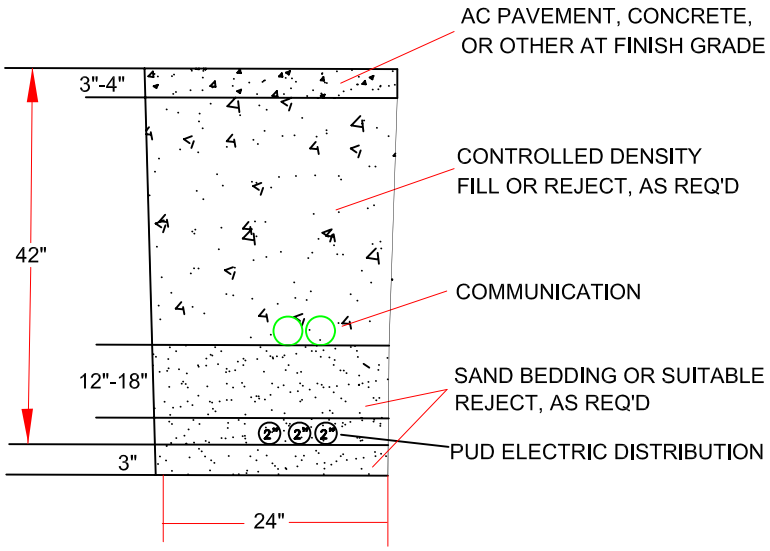


DETAIL A

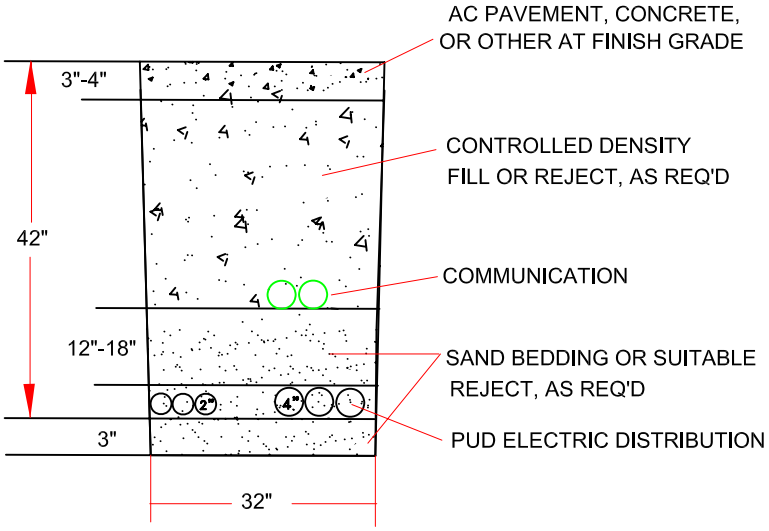
DATE: 08/20/04
REV: 09/23/07
DRAWN: JK/DT
CHK: JP
PG 1 OF 1
FILE: H:\ENGSTANDARDS\05 SPEC\2000\TRECN DETAIL

INSTALLATION SPECIFICATIONS
TRENCH DETAIL

Drawing #3



1/0 - 3Ø CONSTRUCTION



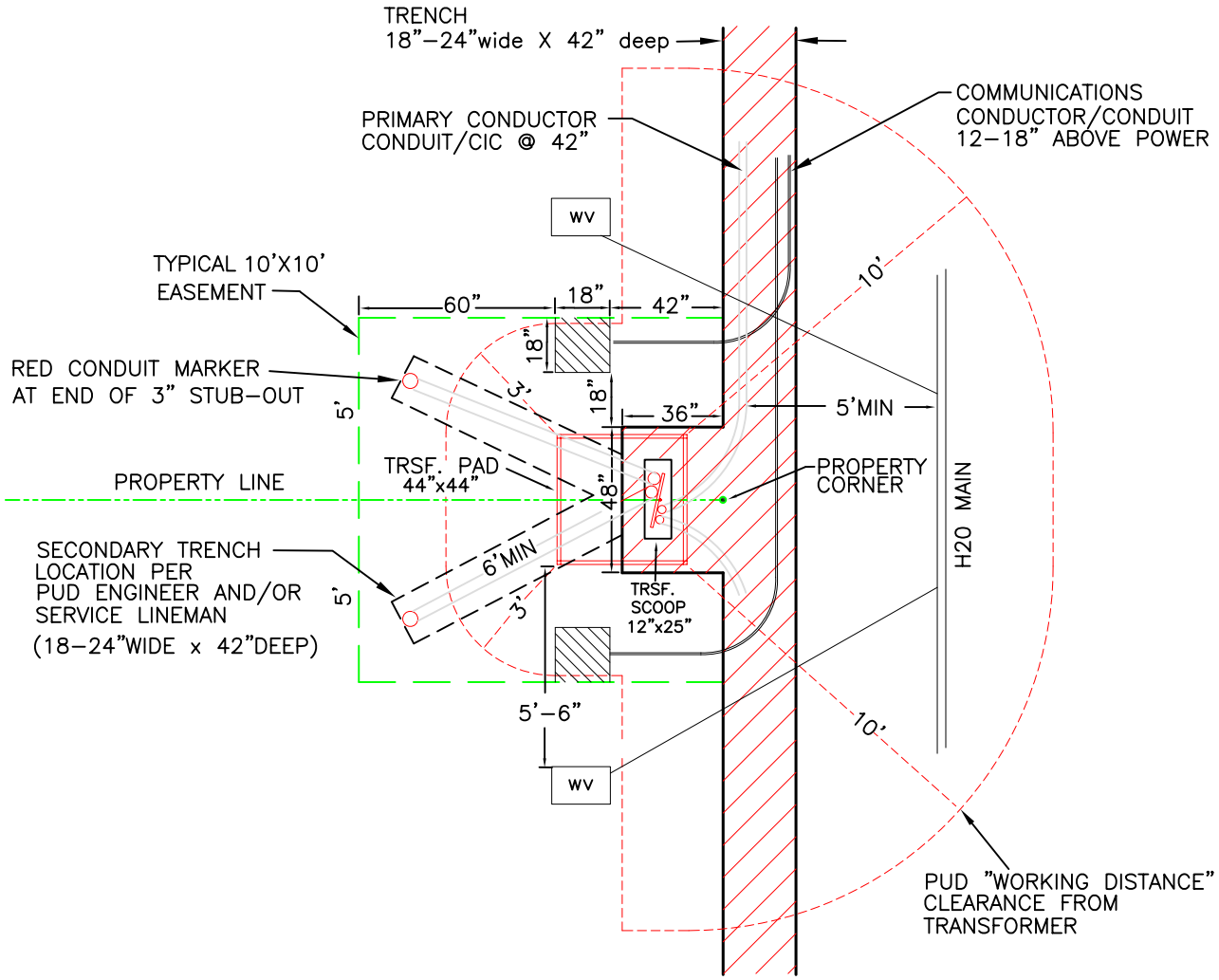
750MCM with 1/0 - 3Ø CONSTRUCTION

DATE: 08/20/04
REV: 11/17/05
DRAWN: JK/DT
CHK: RA/DP
PG 1
OF 1
FILE: H:\ENGSTANDARDS\05 SPEC\2000\TRECN DETAIL

INSTALLATION SPECIFICATIONS
3Ø TRENCH DETAIL

Drawing #4

2000



PRIMARY TRENCH – (18"–24" WIDE x 42" DEEP)
36"x48" AREA CLEARED FOR TRSF. SCOOP

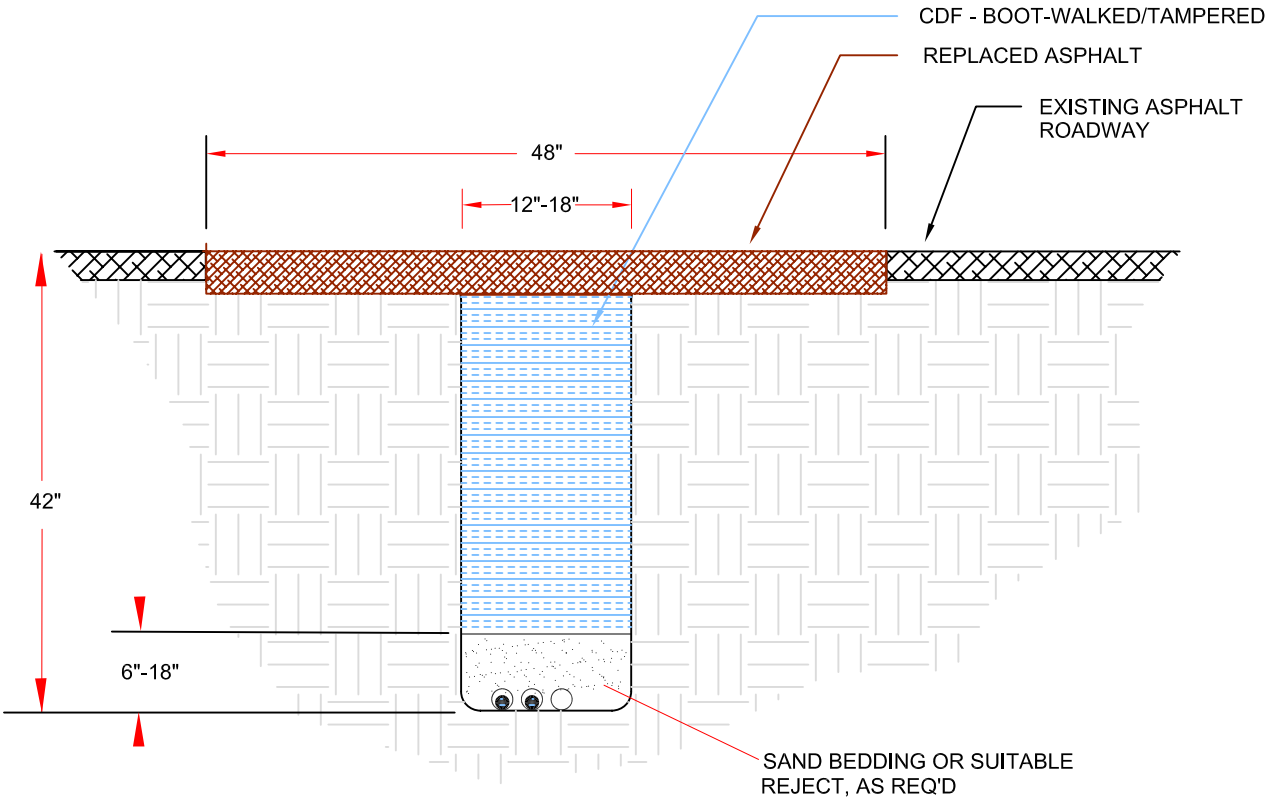
PEDESTAL LOCATION FOR TV/TELE/COMM.

WV — WATER METER – SVC BOX
5.5–FEET ADJACENT FROM SIDE OF TRANSFORMER

DATE: 08/20/04
REV: 11/17/05
DRAWN: JK/DT
CHK: RA/DP
PG 1
OF 1
FILE: H:\ENGSTANDARDS\05 SPECBOOK\2000\DET4B\TRENCHING

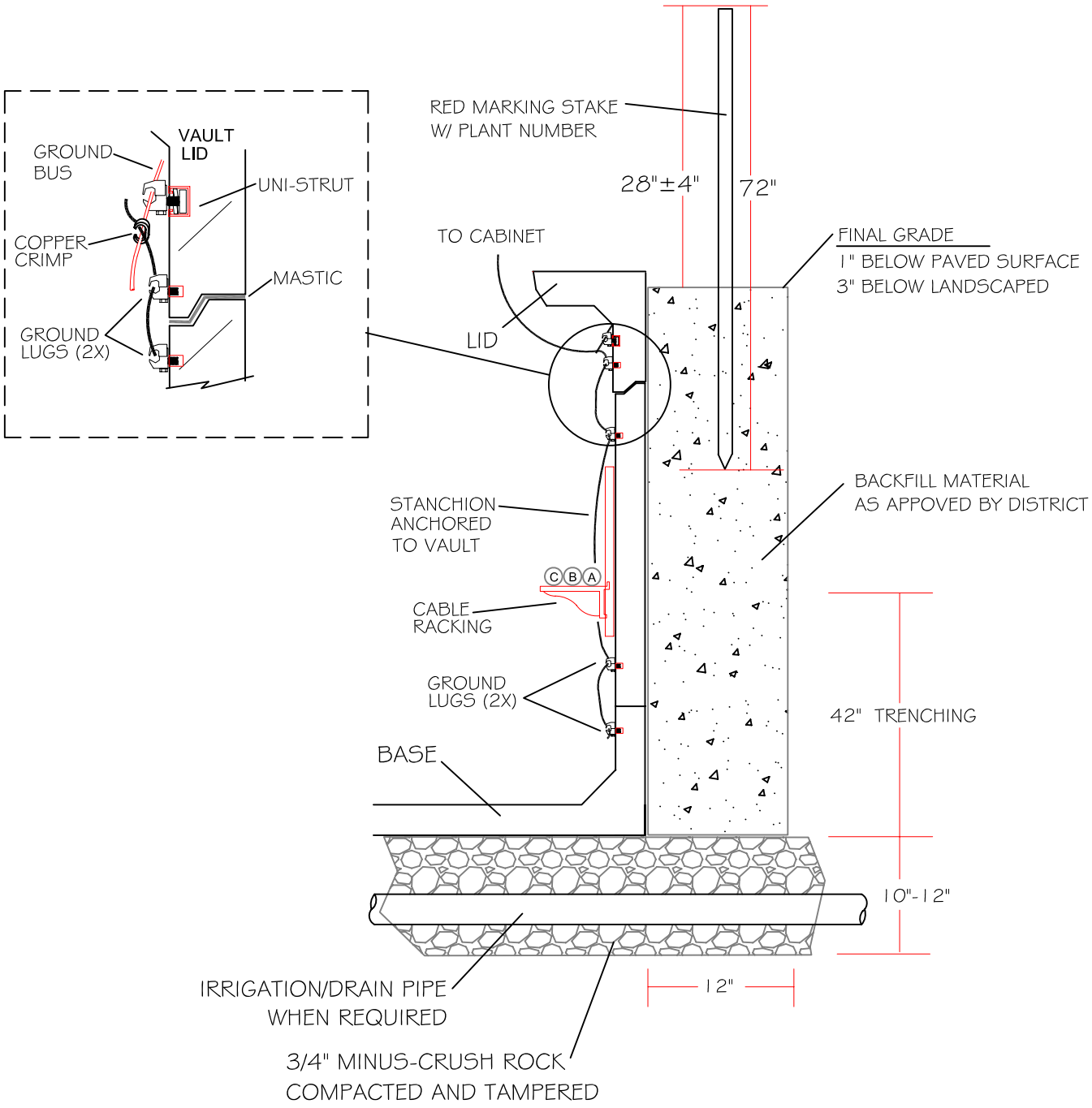
INSTALLATION SPECIFICATIONS
SECTION 5 - TRENCHING

DRAWING #4B



1. SAW CUT EXISTING ROADWAY 24" EACH SIDE OF PROPOSED TRENCH CENTERLINE.
2. TRENCH WITH 12" BUCKET TO A DEPTH OF 42".
3. INSTALL CONDUIT(S) AS REQUIRED PLUS ONE ADDITIONAL 2" CONDUIT AS A SPARE.
4. BACKFILL TRENCH WITH CDF. BOOT-WALK TO FILL VOIDS. COVER WITH STEEL PLATES.
5. EXCAVATE CDF TO 1.5 TIMES DEPTH OF EXISTING ROADWAY AND PATCH WITH CLASS "B" ASPHALT AS SOON AS POSSIBLE.
6. SEAL CRACKS WITH HOT TAR.

OPEN-CUT TRENCH

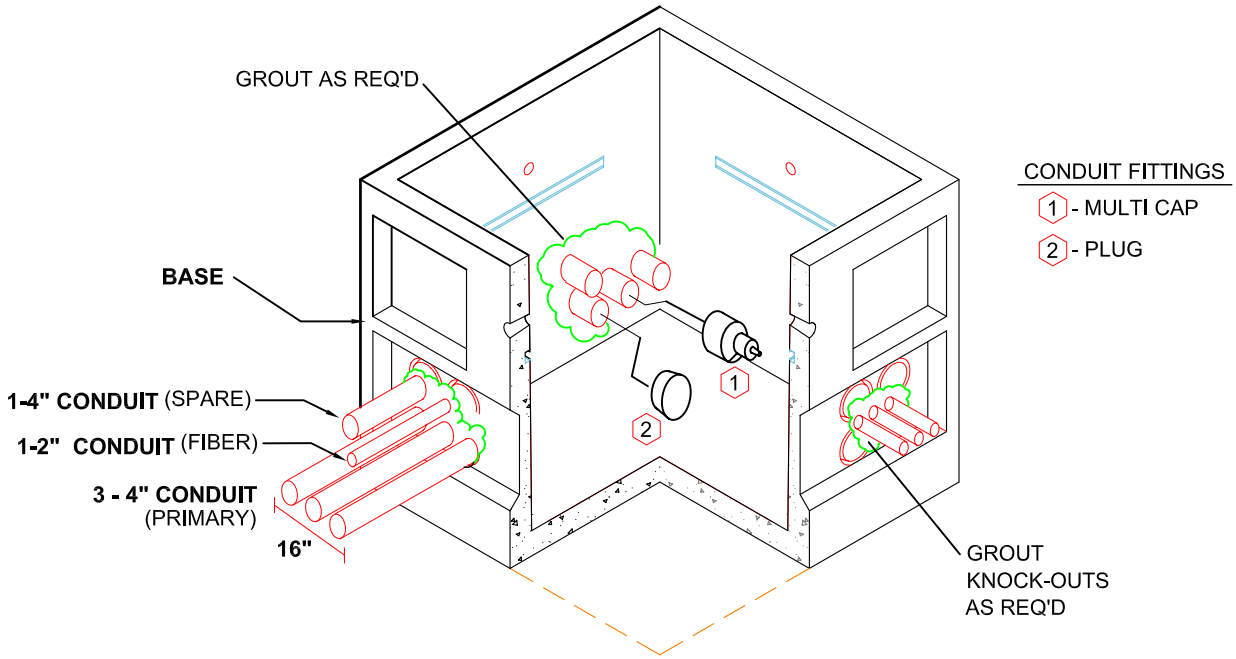


DATE: 08/20/04
REV: 11/17/06
DRAWN: JK/DT
CHK: RA/DP
PG 1 OF 1
FILE: H:\ENGSTANDARDS\05 SPECBOOK\2000\DET6

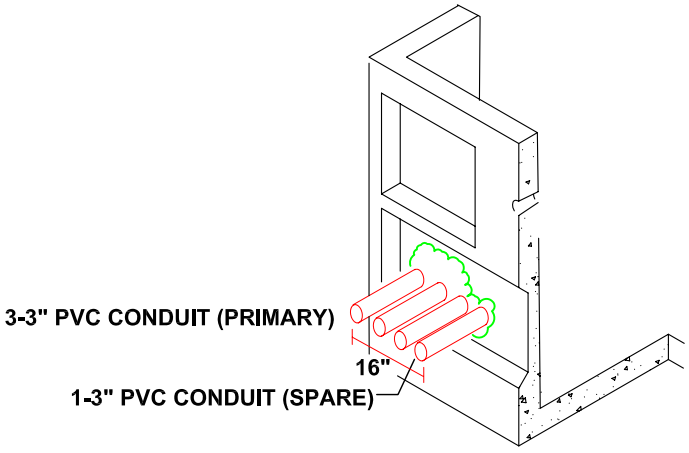
INSTALLATION SPECIFICATION
VAULT ASSEMBLY

SIZE:

Drawing #6



4" CONDUIT (PVC - HDPE)



3" CONDUIT (PVC - HDPE)

DATE: 08/20/04
REV: 11/17/06
DRAWN: JK/DT
CHK: RA/DP
FILE: H:\ENGSTANDARDS\05 SPECBOOK\2000\DET6

PD #1 of Baldwin County

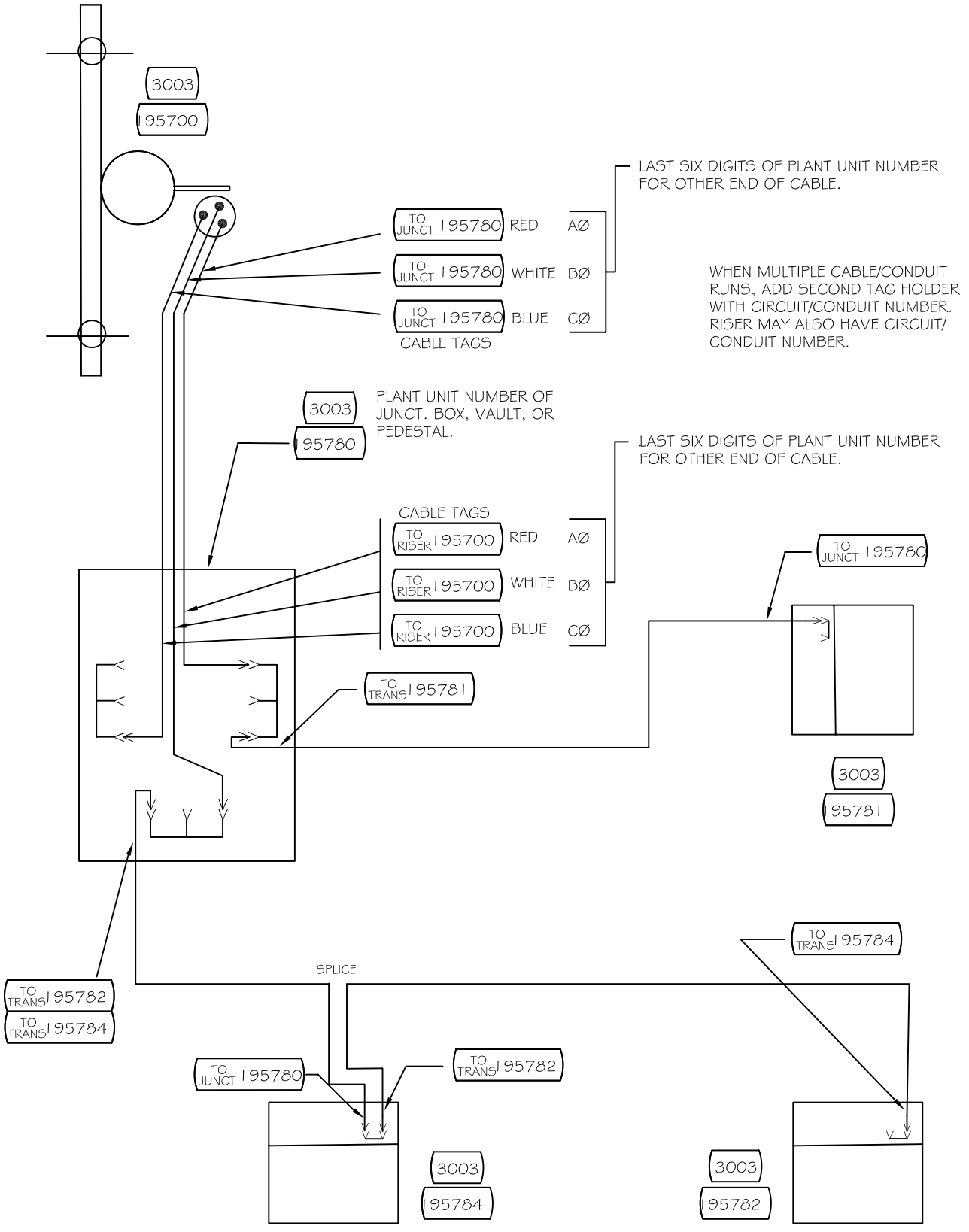
PG 1
OF 1

INSTALLATION SPECIFICATION
VAULT ASSEMBLY

DETAIL: CONDUIT ENTRY

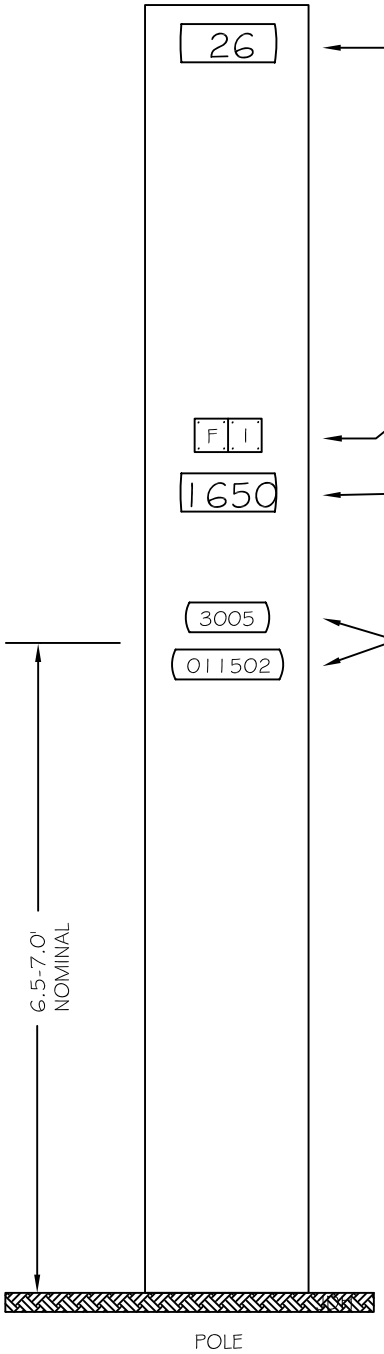
Drawing #6b

2000



DATE: 08/20/04 REV: 11/01/06 DRAWN: JK/DT CHK: RA/DP PG 1 OF 1 FILE: H:\ENGSTANDARDS\05 SPEC\100-GENERAL\130-LB1	**GROUP** Specifications **DETAIL** LABELING & IDENTIFICATIONS	
	CABLE MARKING	**Drawing #7a**

2000



STRUCTURE NUMBERS

3" ALUMINUM - BLACK ON YELLOW IN ALUMINUM HOLDERS.

FAULT INDICATOR TAGS

SWITCHING OR PROTECTIVE EQUIPMENT NUMBERS.

3" ALUMINUM - BLACK ON YELLOW IN ALUMINUM HOLDERS.

TRANSMISSION - DISTRIBUTION, SECTIONALIZING AND RECLOSER DEVICES.

TRANSMISSION	-	XXXX
DISTRIBUTION	-	D-XXXX - SWITCHES, S.B. DISC., CUTOUTS.
	-	D-XXXR - RECLOSERS
	-	D-XXXS - SECTIONALIZERS

PLACE ABOVE PLANT UNIT AND STRUCTURE NUMBER.

PLANT UNIT NUMBERS

1" ALUMINUM - BLACK ON YELLOW IN BLACK PLASTIC HOLDERS.

TOWNSHIP/RANGE

SECTION/GRID COORDINATES/CLASSIFICATION

INSTALL NUMBERS FACING MOST LOGICAL APPROACH TO POLE.

FORKS, CLALLAM BAY SERVICE AREAS:

PLACE DISTRICT PLANT UNIT NUMBER ABOVE SIX DIGIT TELEPHONE CO. NUMBERS.

DATE: 08/20/04
REV: 11/01/06
DRAWN: JK/DT
CHK: RA/DP
PG 1 OF 1
FILE: H:\ENGSTANDARDS\05 SPEC\100-GENERAL\130-LB1

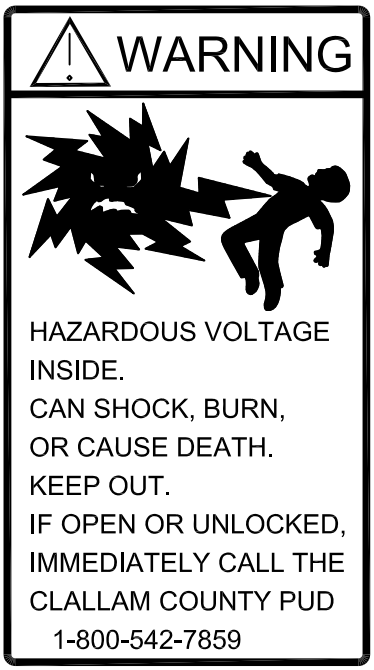
PD #1 of Clallam County

Specifications
LABELING & IDENTIFICATIONS

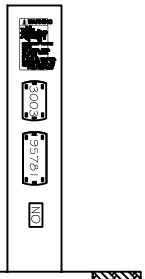
PLANT, STRUCTURE, EQUIPMENT

Drawing #7b

2000



COMPOSITE MARKER
42" X 3-3/4"
FOR:
GROUND LINE VAULT
CONCRETE "J" BOX
SCOOPS

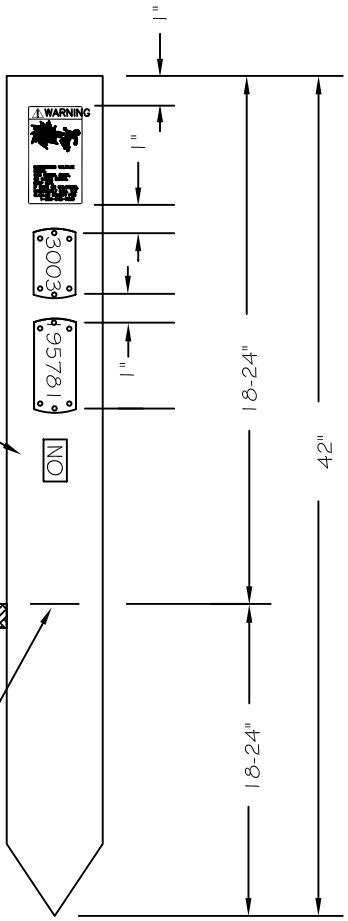


PROFILE
GROUND LINE VAULT
OR SCOOP

WARNING

IF SCOOP, PLANT UNIT
NUMBERS ARE ATTACHED
TO CABLES UNTIL
TRANSFORMER INSTALLED.

"NORMAL OPEN"
(WHERE APPROPRIATE)



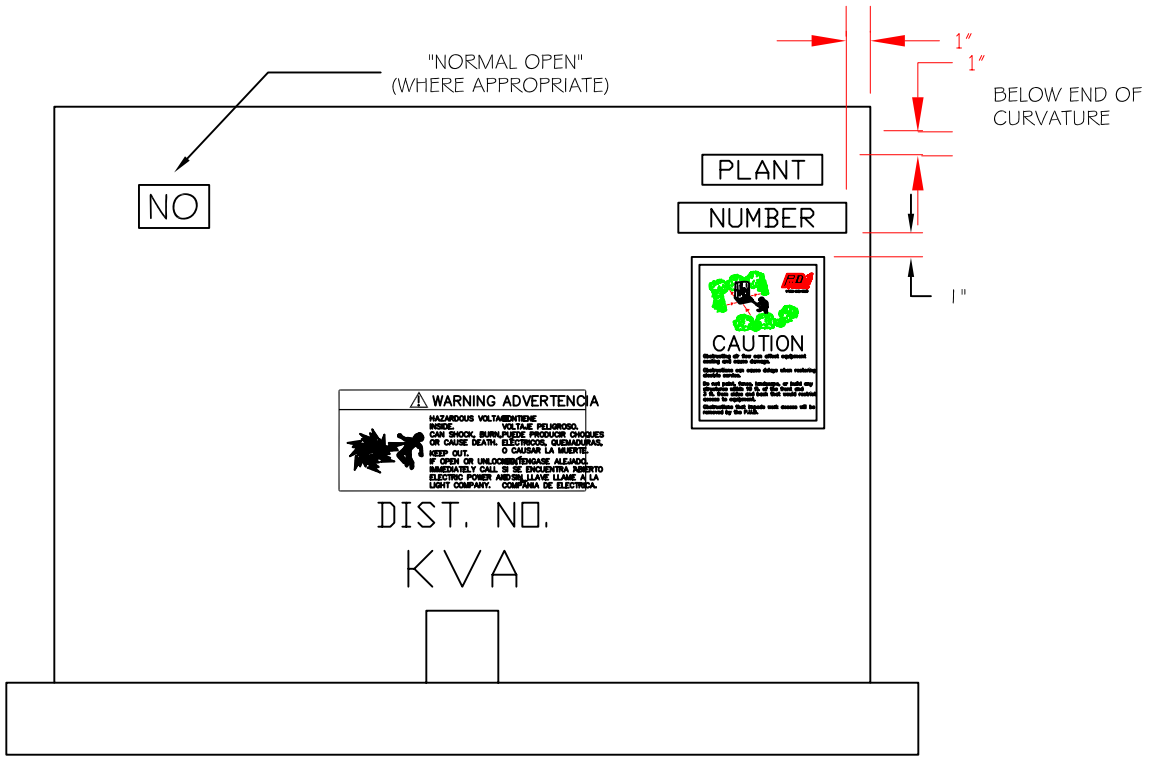
POSITION MARKER AT
RIGHT REAR CORNER

DEPTH MARK
AT 18".

PLAN VIEW
GROUND LINE VAULT
OR SCOOP

FRONT

DATE: 08/20/04 REV: 11/01/06 DRAWN: JK/DT CHK: RA/DP PG 1 OF 1 FILE: H:\ENGSTANDARDS\05 SPEC\100-GENERAL\130-LB1	Specifications LABELING & IDENTIFICATIONS	
	VAULT MARKER	**Drawing #7c**



FRONT
PAD MOUNT TRANSFORMER, PRIMARY PEDESTAL, OR EQUIPMENT CABINET