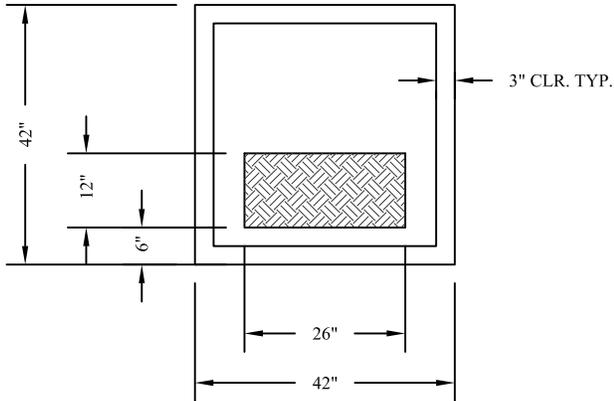


E.5.1 - SINGLE PHASE PAD MOUNTED TRANSFORMER

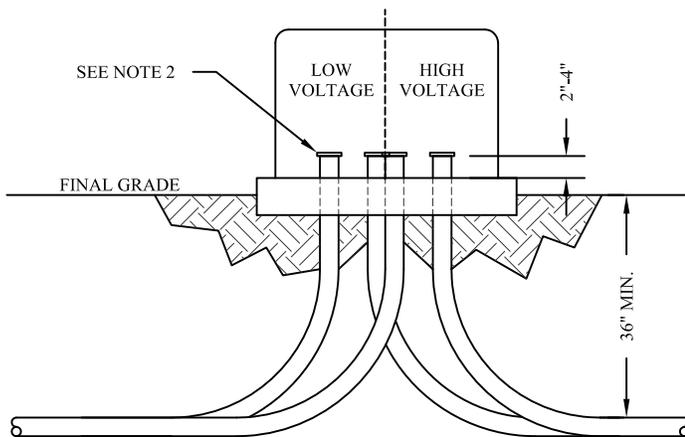
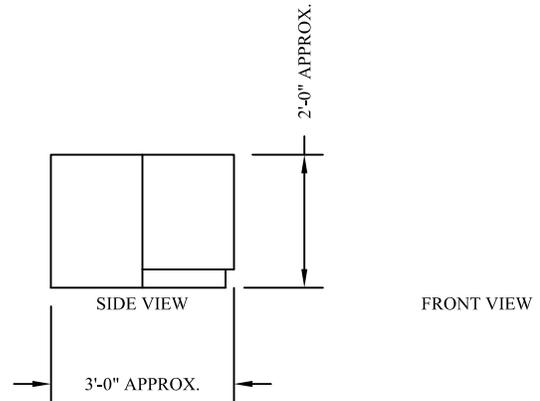
NOTE:

1. DEVELOPER TO SUPPLY TRANSFORMER PADS, GROUND RODS AND CONDUITS.



NOTE:

1. LEHI CITY POWER DEPT. TO SUPPLY TRANSFORMERS AND CONDUCTORS.



NOTES:

1. A CONCRETE TRANSFORMER PAD MAY BE SUBSTITUTED WITH APPROVED PREFABRICATION CONCAST PAD.
2. CONDUIT BONDING BUSHING REQUIRED ON ALL RIGID METALLIC CONDUIT. BONDING BUSHING TO BE PROPERLY GROUNDED WITH 2/O CU.
3. FILL MATERIAL UNDER THE CONCRETE PAD OR BASE SHALL BE ROADBASE MEETING STATE SPEC. AND SHALL BE COMPACTED TO 95%. ROADBASEFILL SHALL EXTEND FROM THE BOTTOM OF THE TRENCH TO THE TRANSFORMER PAD AND SHALL EXTEND 3' ON THE BACK AND SIDES AND 1' ON THE FRONT.



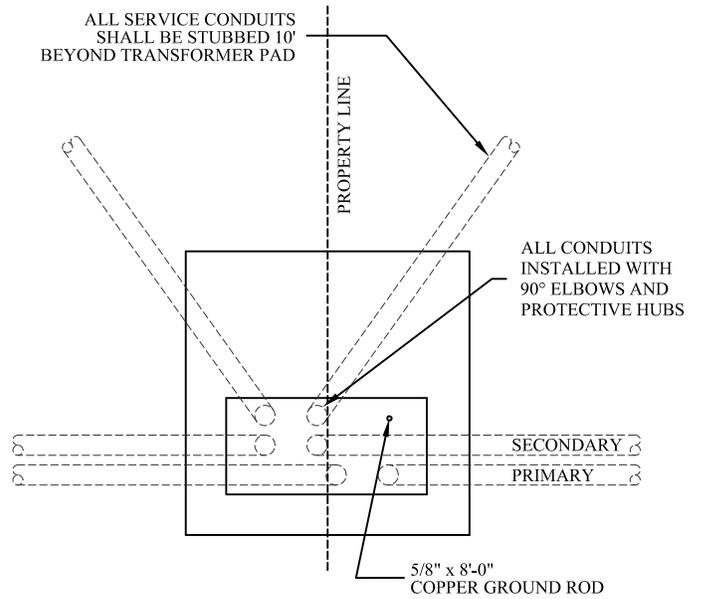
LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL 1 PHASE PAD TRANSFORMER

ELECTRIC 5.1
1 PHASE PAD TRANSFORMER
SCALE: NONE
DATE: 7.22.06
REV: A
REV DATE: 7.22.06

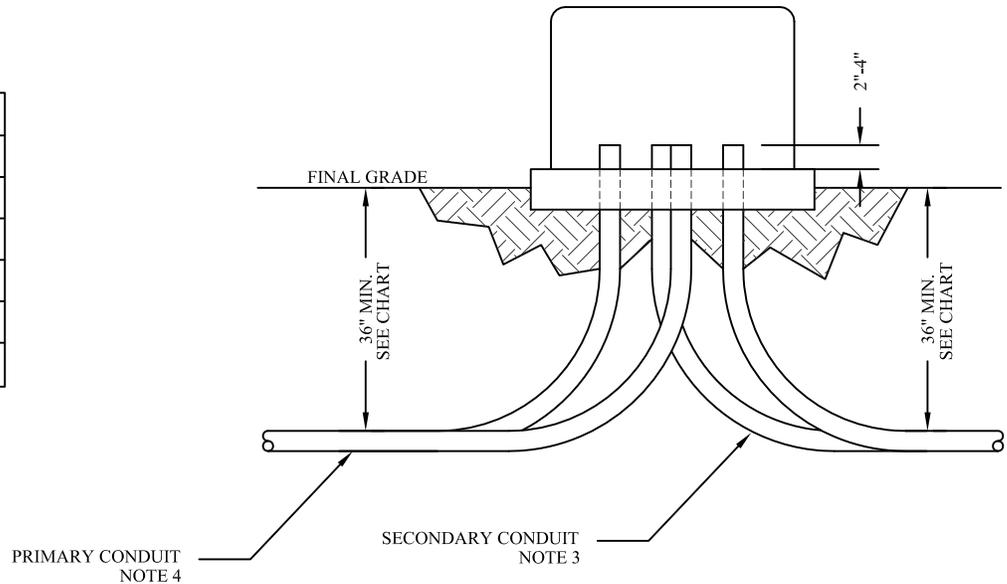
E.5.2 - SINGLE PHASE TYPICAL CONDUIT INSTALLATION FOR RESIDENTIAL SUBDIVISION

NOTES:

1. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF SUFFICIENT QUALITY OF CONDUITS.
2. ALL STUB OUTS MUST POINT IN THE GENERAL DIRECTION OF THE FRONT CORNER OF BUILDING AND MUST EXTEND BEYOND PROPERTY LINE OF THE LOT BEING SERVED.
3. FOR RESIDENTIAL SERVICES USE 3" CONDUIT TO RESIDENT AND 3" CONDUIT TO SECONDARY JUNCTION DOME.
4. PRIMARY CABLE CONDUIT SHALL BE A MINIMUM OF 3", THE DEVELOPER IS REQUIRED TO COORDINATE WITH THE POWER DEPT. FOR SPECIFIC CONDUIT SIZES REQUIRED.
5. CONDUITS MUST BE BURIED 1' DEEP FOR EACH INCH IN CONDUIT DIAMETER. (SEE CHART BELOW).
6. ALL CONDUITS SMALLER THAN 6" SHALL USE PVC 90'S AND FITTINGS. RIGID SHALL BE USED ON RISER POLES OR WHERE OTHERWISE SPECIFIED BY THE LEHI POWER DEPT.
7. ALL 6" CONDUITS SHALL USE RIGID STEEL 90'S AND FITTINGS AND MUST BE PVC WRAPPED.
8. ALL SERVICE CONDUITS SHALL BE STUBBED 10' BEYOND TRANSFORMER PAD



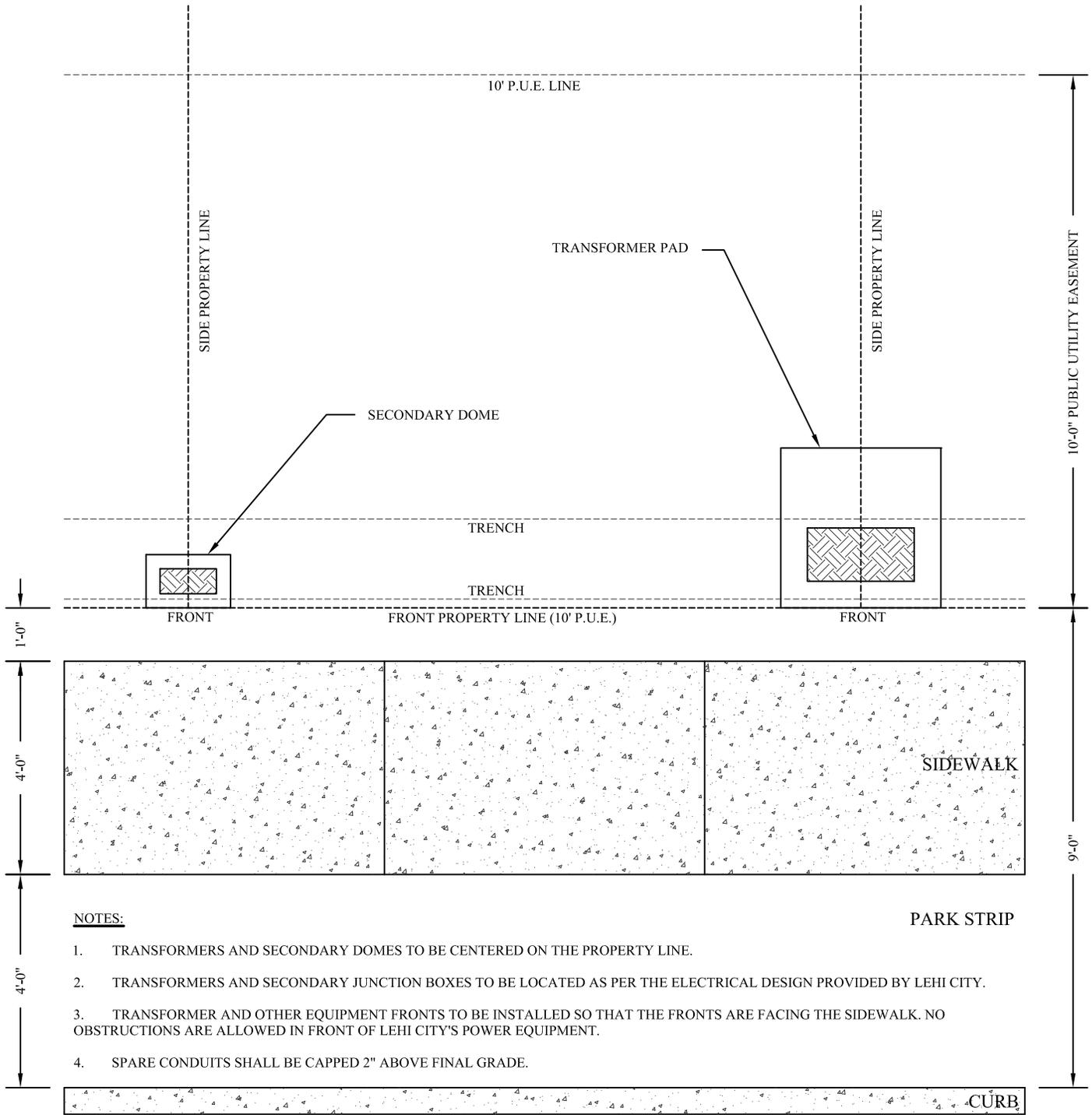
CONDUIT SIZES AND DEPTHS:	
CONDUIT SIZE	DEPTH
2"	2'-0"
3"	3'-0"
4"	4'-0"
5"	5'-0"
6"	6'-0"



LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL 1 PHASE CONDUIT INSTALLATION

ELECTRIC 5.2
1 PHASE CONDUIT INSTALLATION
SCALE: NONE
DATE: 7.22.06
REV: A
REV DATE: 7.22.06

E.5.3 - SINGLE PHASE TRANSFORMER PAD OR SECONDARY DOME LOCATION WITH PLANTER AND SIDEWALK



NOTES:

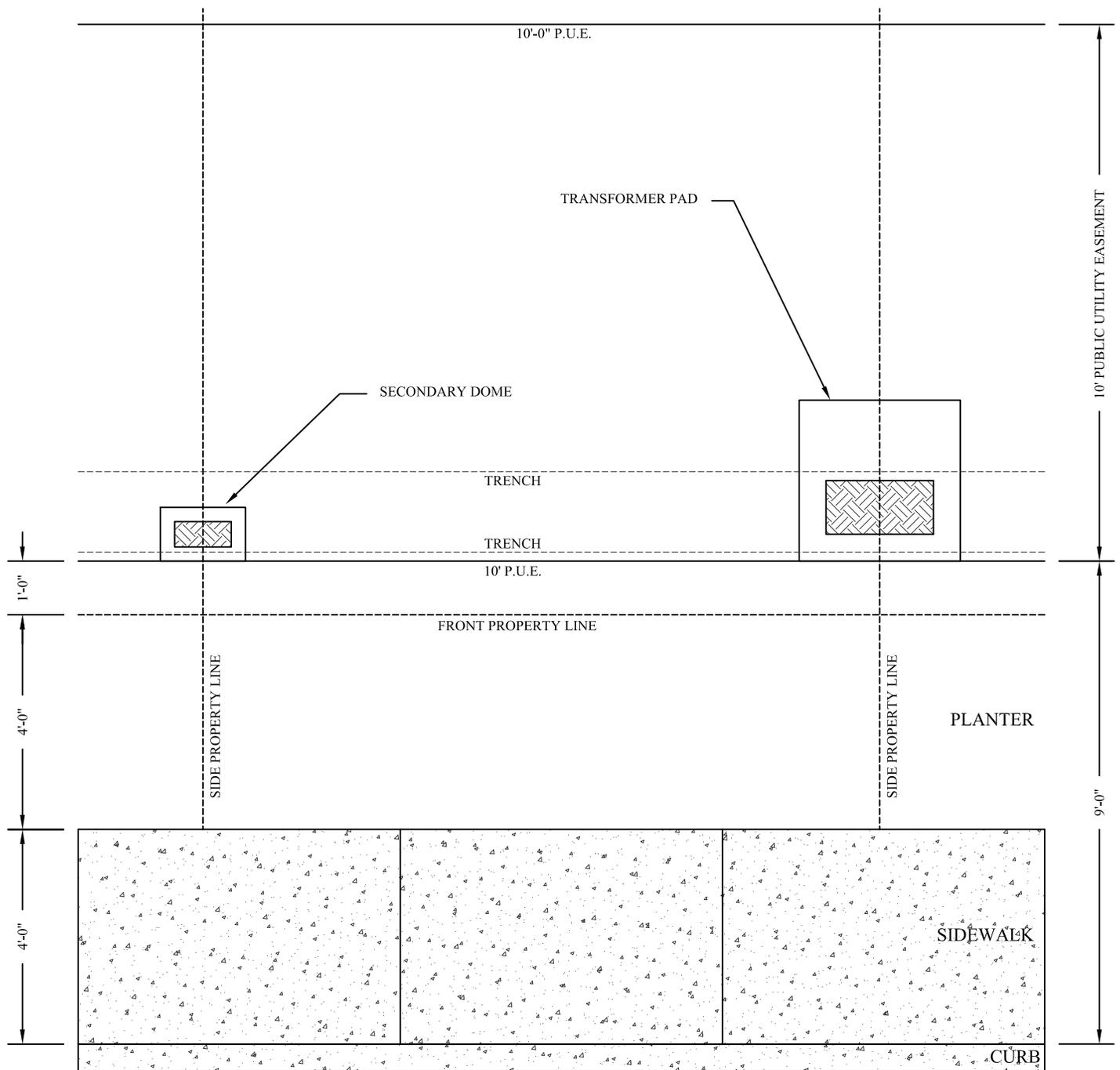
1. TRANSFORMERS AND SECONDARY DOMES TO BE CENTERED ON THE PROPERTY LINE.
2. TRANSFORMERS AND SECONDARY JUNCTION BOXES TO BE LOCATED AS PER THE ELECTRICAL DESIGN PROVIDED BY LEHI CITY.
3. TRANSFORMER AND OTHER EQUIPMENT FRONTS TO BE INSTALLED SO THAT THE FRONTS ARE FACING THE SIDEWALK. NO OBSTRUCTIONS ARE ALLOWED IN FRONT OF LEHI CITY'S POWER EQUIPMENT.
4. SPARE CONDUITS SHALL BE CAPPED 2" ABOVE FINAL GRADE.
5. TO LOCATE PROPERTY LINE USE THE PROPERTY MARKER PINS IN THE FRONT CURB AND THE PROPERTY STAKES LOCATED IN THE BACK.
6. ALL EQUIPMENT SUCH AS DOMES, TRANSFORMERS, SWITCHES, ETC. SHALL BE PLACED WITHIN ONE FOOT (1') OF THE SIDEWALK. (EXCEPTION) IN DEVELOPMENTS WHERE THERE IS A CURB ONLY WITH NO SIDEWALK OR A MEANDERING SIDEWALK, ALL ELECTRICAL EQUIPMENT SHALL BE PLACED ONE FOOT BEHIND THE CURB.



LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL EQUIPMENT LOCATION SPEC.

ELECTRIC 5.3
1 PHASE TRANSFORMER PAD
SCALE: NONE
DATE: 7.22.06
REV: B
REV DATE: 1.10.10

E.5.4 - SINGLE PHASE TRANSFORMER PAD OR SECONDARY DOME LOCATION WITH SIDEWALK AND PLANTER



NOTES:

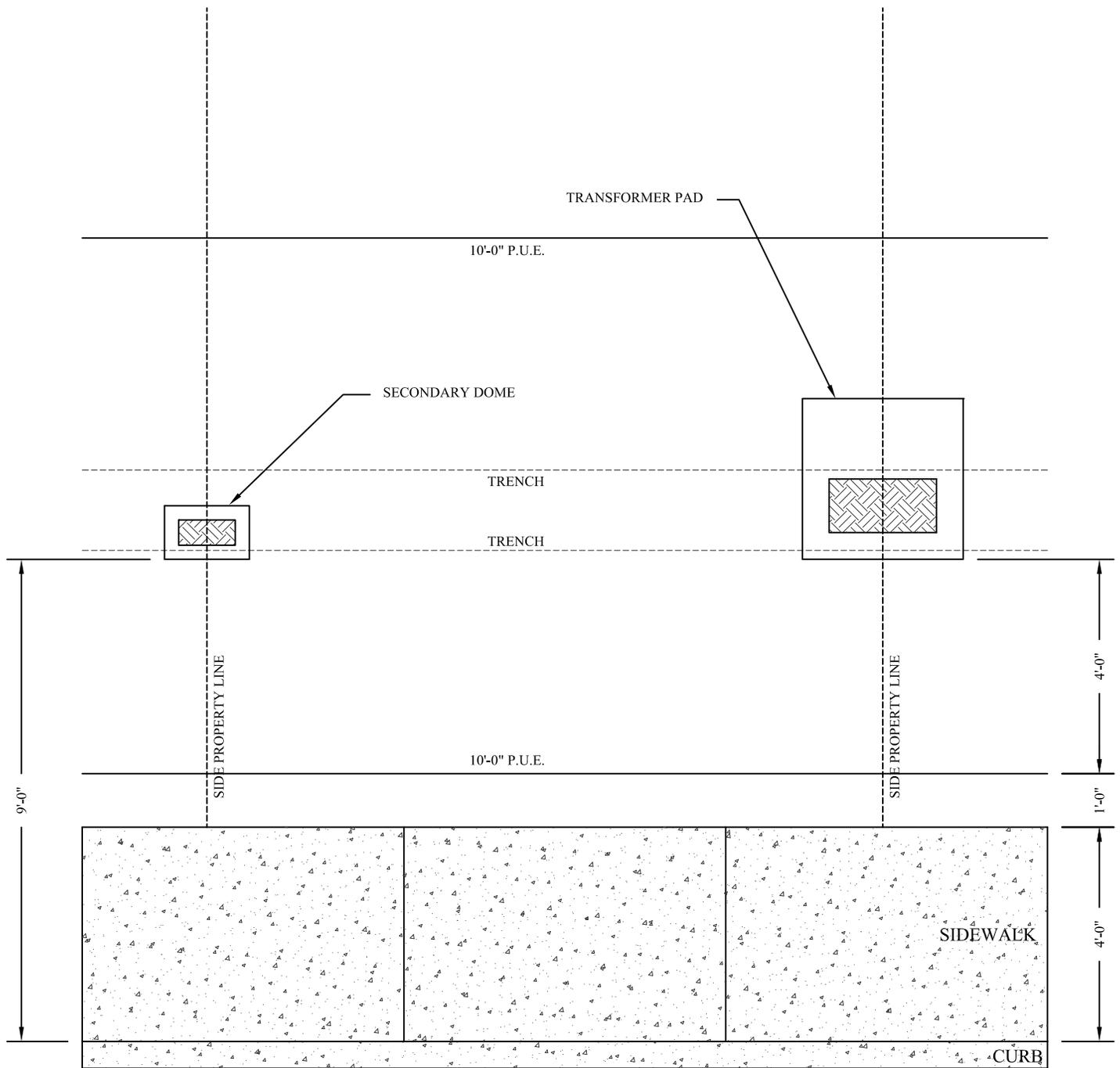
1. TRANSFORMERS AND SECONDARY DOMES TO BE CENTERED ON THE PROPERTY LINE.
2. TRANSFORMERS AND SECONDARY JUNCTION BOXES TO BE LOCATED AS PER THE ELECTRICAL DESIGN PROVIDED BY LEHI CITY.
3. TRANSFORMER AND OTHER EQUIPMENT FRONTS TO BE INSTALLED SO THAT THE FRONTS ARE FACING THE SIDEWALK. NO OBSTRUCTIONS ARE ALLOWED IN FRONT OF LEHI CITY'S POWER EQUIPMENT.
4. SPARE CONDUITS SHALL BE CAPPED 2" ABOVE FINAL GRADE.



LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL EQUIPMENT LOCATION SPEC.

ELECTRIC 5.4
1 PHASE TRANSFORMER PAD
SCALE: NONE
DATE: 7.22.06
REV: A
REV DATE: 7.22.06

E.5.5 - SINGLE PHASE TRANSFORMER PAD OR SECONDARY DOME LOCATION WITH SIDEWALK AND NO PLANTER



NOTES:

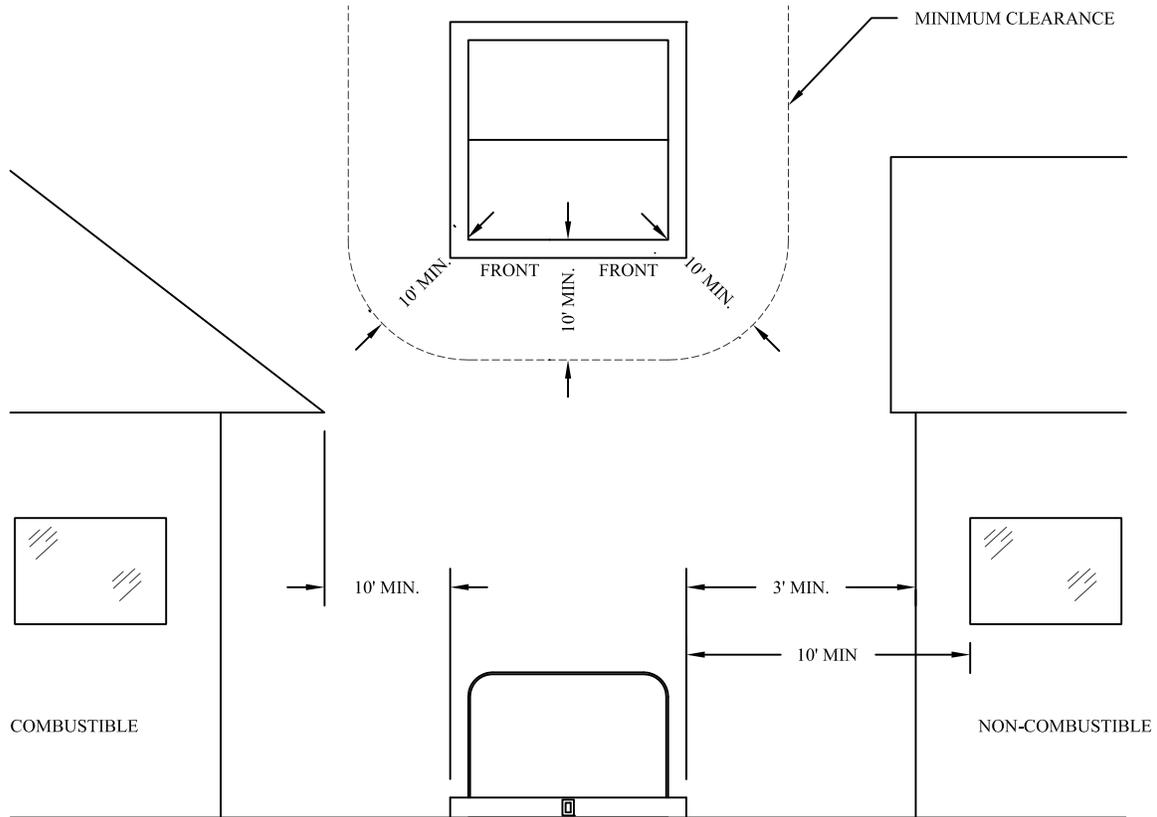
1. TRANSFORMERS AND SECONDARY DOMES TO BE CENTERED ON THE PROPERTY LINE.
2. TRANSFORMERS AND SECONDARY JUNCTION BOXES TO BE LOCATED AS PER THE ELECTRICAL DESIGN PROVIDED BY LEHI CITY.
3. TRANSFORMER AND OTHER EQUIPMENT FRONTS TO BE INSTALLED SO THAT THE FRONTS ARE FACING THE SIDEWALK. NO OBSTRUCTIONS ARE ALLOWED IN FRONT OF LEHI CITY'S POWER EQUIPMENT.
4. SPARE CONDUITS SHALL BE CAPPED 2" ABOVE FINAL GRADE.



LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL EQUIPMENT LOCATION SPEC.

ELECTRIC 5.5
1 PHASE TRANSFORMER PAD
SCALE: NONE
DATE: 7.22.06
REV: A
REV DATE: 7.22.06

E.5.6 - SINGLE PHASE AND THREE PHASE PAD MOUNTED TRANSFORMER CLEARANCES



10' CLEAR AREA IN FRONT OF EQUIPMENT TO ALLOW FOR THE USE OF HOT STICKS (NOTE 2)

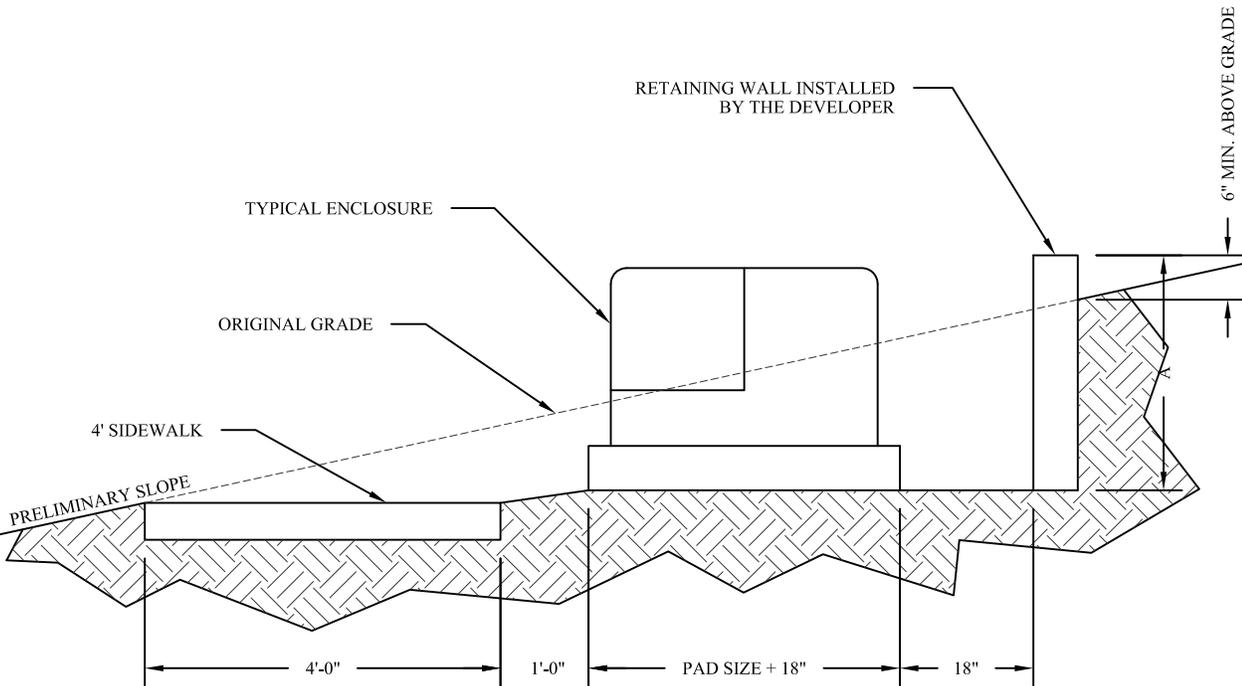
10' CLEARANCE FROM ANY TRANSFORMER SURFACE IF STRUCTURE IS OF COMBUSTIBLE MATERIAL

3' CLEARANCE TO ANY NON-COMBUSTIBLE BUILDING SURFACES THAT DO NOT HAVE ANY OPENINGS CLOSER THAN 10'

NOTES:

1. CONSULT NATIONAL ELECTRIC SAFETY CODE, NEC, STATE AND LOCAL BUILDING AND FIRE CODES FOR ADDITIONAL REQUIREMENTS.
2. FRONT OF PAD MOUNTED TRANSFORMER TO BE LOCATED AWAY FROM BUILDING WALLS OR OTHER BARRIERS TO ALLOW FOR SAFE WORKING PRACTICES.
3. CONSULT LEHI POWER DEPT. FOR ADDITIONAL CLEARANCES THAT MEY BE REQUIRED FOR DOORS, WINDOWS, FIRE ESCAPES, AIR VENTS, ETC.
4. WHEN PAD MOUNTED TRANSFORMERS OR OTHER EQUIPMENT IS INSTALLED WHERE IT MAY BE STRUCK BY A MOTORIZED VEHICLE THE CUSTOMER WILL INSTALL AND MAINTAIN LEHI POWER DEPT. APPROVED BARRIER POST TO PROTECT THE EQUIPMENT.

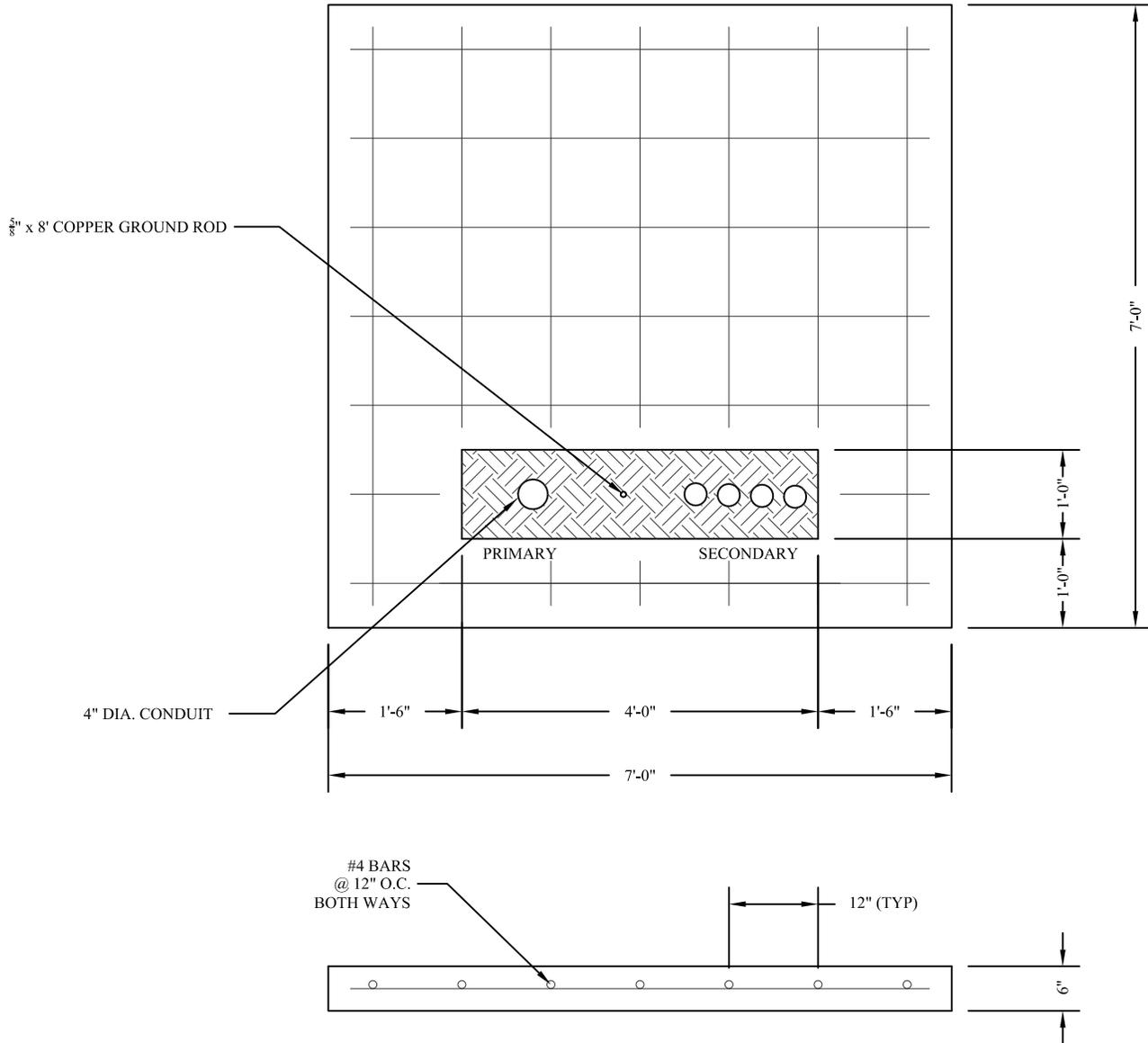
E.5.7 - EQUIPMENT EROSION PREVENTION



NOTES:

1. WHEN IT BECOMES NECESSARY TO NOTCH-OUT OR FILL A SLOPE TO INSTALL AN ENCLOSURE OR TRANSFORMER, THE CLEARED AREA SHOULD BE SUFFICIENT SIZE TO ACCOMMODATE THE ENCLOSURE AND SHORINGS. THE FRONT OF THE PAD SHALL BE PLACED 2" (MAX.) ABOVE THE SIDEWALK.
2. AREA UNDER AND BEHIND PAD MUST BE LEVEL AND COMPACTED AS PER TRENCH SPECIFICATION ???.
3. A RETAINING WALL IS REQUIRED IF DIMENSION "A" IS GREATER THAN 12".
4. SIDE RETAINING WALLS ARE ALSO REQUIRED IF DIMENSION "A" IS GREATER THAN 18". RETAINING WALL SHALL BE 6" ABOVE EXISTING GRADE AND 18" FROM EACH SIDE AND BEHIND ENCLOSURE.
5. ALL GRADING SHALL BE PERFORMED BY DEVELOPER.
6. CONTACT LEHI POWER DEPT. IF ASSISTANCE IS REQUIRED.

E.5.8 - THREE PHASE TRANSFORMER CONCRETE PAD WITHOUT CT RACK



NOTES:

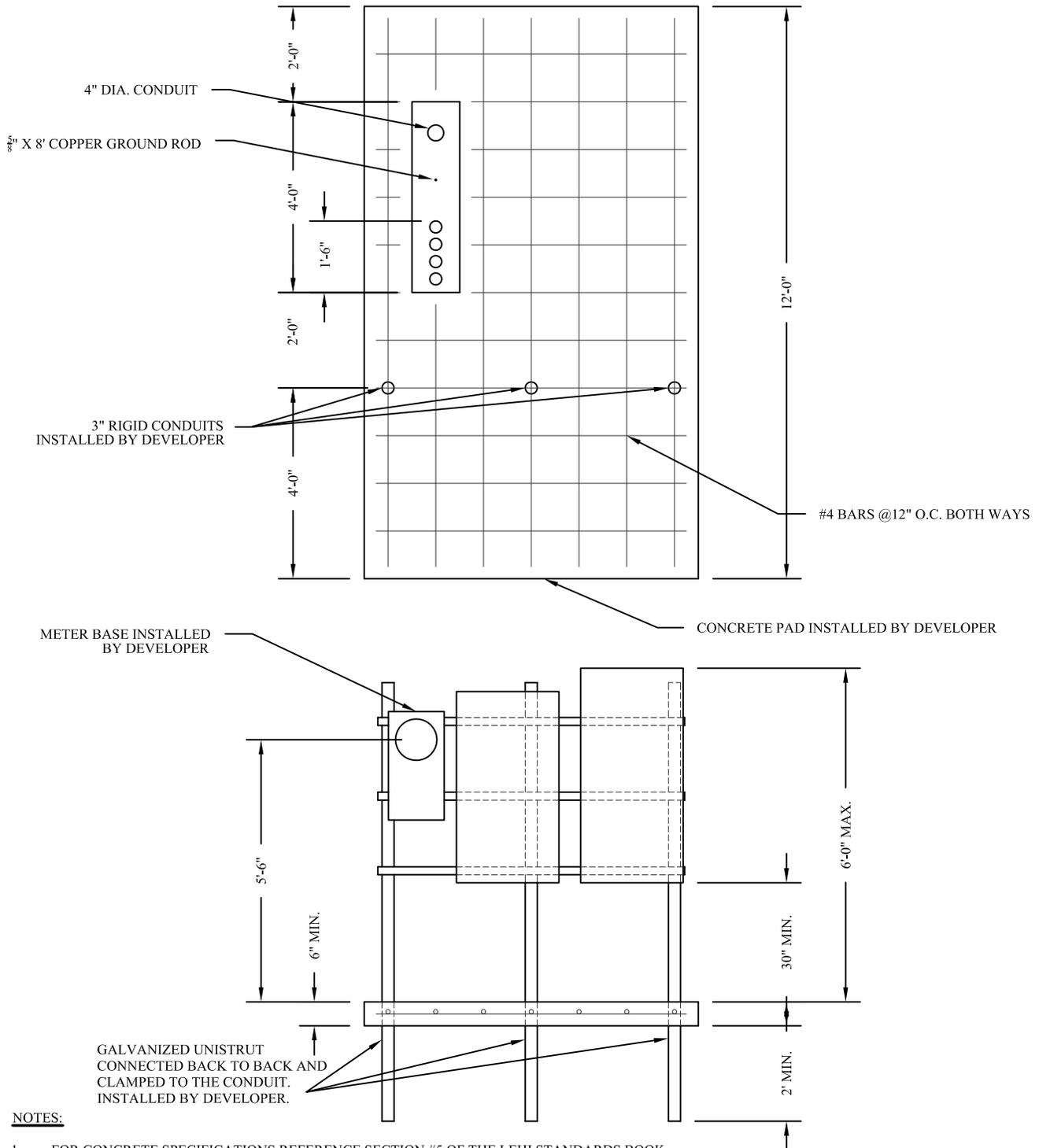
1. CONCRETE SPECIFICATION REFERENCE SECTION #5 OF THE LEHI STANDARDS BOOK WITH CLASS "B" CONCRETE MINIMUM.



LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL THREE PHASE TRANS. PAD

ELECTRIC 5.8
THREE PHASE CONCRETE PAD
SCALE: 1/2"=1'-0"
DATE: 7.22.06
REV: A
REV DATE: 7.22.06

E.5.9 - THREE PHASE TRANSFORMER PAD WITH METERING STATION



NOTES:

1. FOR CONCRETE SPECIFICATIONS REFERENCE SECTION #5 OF THE LEHI STANDARDS BOOK.
2. LEHI CITY WILL NOT PULL OR TERMINATE COMMERCIAL SERVICES FROM SECONDARY SIDE OF TRANSFORMER.
3. DEVELOPER SHALL TERMINATE ALL CABLES FROM THE CT CANS IN.
4. CONTRACTOR SHALL TERMINATE ALL CABLES THEY RUN.



LEHI CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL 3 PHASE TRANSFORMER PAD

ELECTRIC 5.9
3 PHASE TRANSFORMER PAD
SCALE: NONE
DATE: 7.22.06
REV: A
REV DATE: 1.11.10