

SERVICE UPGRADE FOR LODI UNIFIED SCHOOL DISTRICT

CONSTRUCTION RESPONSIBILITIES

Developer Installed Substructures

A. DEVELOPER RESPONSIBILITY (DEVELOPER TO EXECUTE, FURNISH AND INSTALL):

1. THIS PROJECT REQUIRES WORK AROUND LIVE EQUIPMENT (SWITCHES, CONDUITS, TRANSFORMERS ETC.) ENERGIZED AT 12,000V. THIS SHALL OCCUR ONLY WHERE INDICATED BY LODI ELECTRIC, ONLY BY QUALIFIED PERSONS, BY HAND, AND AFTER A USAN MARKING HAS BEEN CALLED FOR AND CONDUCTED, AND SHALL OCCUR ONLY UNDER THE SUPERVISION OF LODI ELECTRIC. DIGGING IN THE VICINITY OF PAD-MOUNTED EQUIPMENT SHALL BE KEPT TO A MINIMUM SO AS NOT TO UNDERMINE THE FOUNDATION. PLEASE CALL 209.333.8877 FOR ASSISTANCE OPENING AND WORKING IN EQUIPMENT, SUPERVISION ADJUDIC CONDUIT TO IT. TO DEENERGIZE THE LIVE INFRASTRUCTURE.

2. Undertaking a project with LEU does not satisfy or eliminate the requirements of the City and other H.M.s to obtain necessary permits. All permits must be obtained prior to starting. These may include encroachment permits (see Public Works Department) for any work on the roadway, right-of-way, etc., various building permits, etc. A permit and inspection of your service panel by the City's Building Inspection Division will be required prior to energization. Costs associated with the permit and inspection process can be obtained by calling the City of Loud, City Hall, at (203) 353-6714. This project shall meet compaction and all other requirements of other departments.
3. The contractor shall do no excavating until all utility agencies have been notified via USAN and have marked their facilities.

4. The developer is responsible for procuring any land-rights necessary for the plan (on and off-site).
5. The developer will procure and install all substructures, including all conduit, valves, boxes, transformer-pads, module-pads, digging/trenching/compaction/backfilling/grading, site prep, foundation, make-ready, concrete, sidewalk, paving, road and other surfaces, all aspects of streetlights and their wiring (contractor shall install all streetlight-wiring including in streetlight-conduits, however, for any City-maintained lights, the UTILITY shall make the final engineering connection to the utility's power), main-panels and any additional work not mentioned in these documents as the Utility's responsibility.
6. Exact location, grade, excavation, backfill, compaction for all substructure, including transformer box pads, pad-mounted equipment, primary junction vaults/boxes, secondary boxes, etc.
7. All transformers, vaults, boxes & modules shall be surveyed and staked by developer.
8. Installation of 12" to 18" of ¾" crushed drain rock below vaults, transformers & primary-junction modules. Hydro hammer is not to be used around substructures.
9. Trenching, backfill and compaction for all primary, secondary and service infrastructure shall be per City specifications.
10. Unless otherwise noted, service trench depth shall be per 2010 California Electrical Code (CEC).
11. Contractor shall compact all trenches, foundations and areas of backfill to the greater of 91% compaction, or the respective City of Lodi Public-Works Department's standard. Contractor to obtain compaction-testing reports and provide to Lodi Electric for review. Contractor is required to receive Lodi Electric's approval of compaction and reports.
12. All conduits, including primary, secondary, service, streetlight, fiber and sub-outs, including to/from vaults, modules, switches, transformers, boxes, main-panels and streetlights, per LEU plans.
13. Conduit stubs for all future services, from take-off point to the back of the PUE.

14. All conduit shall be at a minimum, 1/2" PVC schedule-40 (UL 651, ASTM F 512 and NEMA TC-2, Gray in color), and meet City of Lodi Engineering Standard 906-1000. Conduit sizes and quantities as per listed on Lodi Electric plan.
15. Conduits shall be joined using a medium body, clear, electrical conduit PVC solvent cement approved by Lodi Electric. All PVC couplings shall be long-line couplings.
16. All conduit couplings and fittings shall be sweeptype.
17. Angled/bends shall be kept to a minimum. No more than 270-degrees of bend are allowed in any conduit run.
18. All conduit angles/sweeps/bends shall have a minimum of a 36" radius.
19. Primary elbows shall have concrete-blooding poured on the interior angle (positioned to reinforce the elbows for wire-pulling), with a thin layer of backfill shading between the conduit and concrete, minimally sufficient to keeping the concrete from adhering to the conduit.
20. Conduits entering modules, switches and transformers must arrive at exact location required by utility. Contact Lodi Construction Supervisor at 209.333.8817 to review and discuss Lodi's needs.
21. Trench depth and location may have to be adjusted slightly in the field to avoid existing facilities.

22. Electric conduits may not use angled fittings to adjust depth (including to avoid utility crossings). Necessary depth must be achieved by lowering or raising entire conduit assembly or by deflecting conduits no more than 5° away from vertical.
23. Install Detectable Muletape pull-ropes end-to-end in all conduits (primary, secondary, fiber, & streetlight). Muletape shall terminate on end-caps. Muletape shall be detectable, model # DT1250P or stronger.
24. Conduit shall be free of dirt, rocks or other obstructions which could prevent, hinder or harm the installation of electric cable.
25. Unless otherwise noted, electric conduits must clear other utilities by MIN 6" when crossing, and 12" when paralleling.
26. Unless otherwise noted, primary-conduits must maintain minimum 56" depth below final grade. Secondary conduits must maintain 48" to final grade.
27. All primary vaults and pots shall be set level. Primary-covers shall be adjusted to be flush with, and account for any slope in, finished grade. In landscape areas, primary-covers shall be adjusted to be uniformly 2" above grade.
28. Depending on grade changes and approved depth of conduit, primary-vaults may require the use of one or more extension-grade-rings. For any such needs, see Lot Specifications.
29. Grounding per Electrical Construction Standard 314.1008 at each primary junction box, transformer box pad, primary module enclosure, also at any other locations noted on plans.

30. Installation of minimum 6" layer of ¾" crushed drain rock below all secondary and streetlight boxes.
31. Installation of mark-and-locate marker-balls (marker-balls provided by LEU) a maximum of 3.5' below finished grade, at every conduit stub location.
32. Bonded installation is not anticipated on this project. Ultimate field-conditions may dictate the need for bondants as directed by LEU field-personnel.
33. ALL MAIN-PANELS'S MUST RECEIVE WRITTEN APPROVAL FROM THE UTILITY, AS HAVING MET THE UTILITY'S INTERNAL AND ULDERGIC REQUIREMENTS. PLEASE SUBMIT THE MANUFACTURERS DRAWINGS FOR RECEIVING OUR WRITTEN APPROVAL. For non-residential panels rated less than or equal to 200 amps, the design shall be of the "Safety Socket Box" type (self-contained) meter socket. Please forward panel/switchboard drawings to: Local Section, Metering Section, 1331 S. Heim Lane, Lodi CA 95242-3995.

34. All main-panels must have:
- 34.1. Immediate unobstructed 24/7 access for the utility.
- 34.2. Exterior location, per LEU plans (except for panels in utility-approved meter-rooms).
- 34.3. Clear path of travel to the panel.
- 34.4. The minimum clear working-space in the direction of access to live parts of electrical equipment shall not be less than specified in the most-recent California Electrical Code, working-space shall be absent of all obstructions, and shall be free of any other equipment, piping, conduits, or other obstructions.
- 34.5. Per City code 12.01.130, no electric meter shall be enclosed by a fence, gate, shrub or any other type of structure or enclosure and shall be immediately accessible 24/7 by the utility, without any impediments or obstructions.
- 34.6. Meters shall not be in ventilator rooms, stairwells, above doorways, windows, adjacent to sinks, wash basins, within 36" laterally of gas meters, driveways or in any other hazardous location, nor within the radius of a swinging door or window.

35. For buildings with multiple sources (power, e.g., PV systems, generators, EVs, multiple main-panels), each main panel shall have a red & white bimodal/phosphoric sign with min 1" lettering, describing the existence of multiple services and how to find the other disconnected in relation to the present location.
36. Project shall have no trees within 4' of Electric-fencelines.
37. The CPIC and Lot/Electric require transformers and primary modules to have a min 6' clearance-zone in the front and a 3' clearance zone on all remaining sides, free of all objects. There shall be no vegetation, screening or other objects apart from handscaping, in any of these zones. Specific locations and dimensions, may require additional clearance, per EUT plans.
38. Contractor's responsibility to obtain and pass Lot/Electric inspections of all substructures (not limited to: conduit, grounding, foundations, make-ready, electrical-substructures, vaults, primary junction boxes, secondary boxes) for proper installation, prior to backfill of any excavation and upon backfill completion.
39. Developer shall prove all conditions to Lot/Electric's satisfaction, with a mandated provided by Lot/Electric. You may call Lot/Electric at (209) 339-4817 to schedule inspection. The Developer shall notify Lot/Electric two business-days in advance of any inspection requested. Developer shall pay all overtime premiums associated with inspections outside of the normal working (ref. Rules and Regulations 15.0.2.6). Developer to submit completed Compaction Testing report(s) to Lot/Electric Inspector prior to installation of transformer pad. You are advised to receive EUT approval before backfilling, to avoid the possibility of having to uncover items for inspection.

40. ALL UTILITY COOPERATION HAS BEEN AND WILL CONTINUE TO BE HANDLED BY THE DEVELOPER. LODI ELECTRIC HAS RECEIVED NO INFORMATION FROM OTHER UTILITIES AS TO WHAT THEIR NEEDS MIGHT BE OR IF THE WORK PROSCRIBED HERE WILL ADVERSELY IMPACT THEM.
41. Developer is responsible for the condition of all substructures (such as trench settlement, damaged substructures, etc.) until one year after the energization of service. (ref. Rules and Regs 15.0 D.2.)
42. DEVELOPER IS RESPONSIBLE FOR ANY ADDITIONAL WORK NOT SPECIFICALLY MENTIONED HEREIN AS THE UTILITY'S RESPONSIBILITY.
43. The developer is required to obtain certain material and components as part of this plan. Long lead-times are currently plaguing many items. It is the developer's responsibility to account for this, to plan-ahead and obtain all materials and components required for this project. THE UTILITY WILL NOT ACCEPT SUBSTITUTIONS.

B. UTILITY RESPONSIBILITY (CITY OF LODI TO EXECUTE, FURNISH AND/OR INSTALL AT DEVELOPER'S EXPENSE):

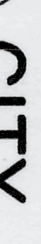
1. Load Electric is responsible, at the developer's expense, for installing primary, secondary and service cable, connectors, terminations, per Load Electric plan, up to the customer's service equipment.
2. Making of the final connection (in box or transformer) to the developer-installed streetlight wiring, to energize streetlight.
3. Setting the transformers (atop pads & foundation installed and made-ready by developer).
4. Setting primary-junction modules (atop pad/foundation installed and made-ready by developer).
5. Installation of electric-meters and CT's.
6. Conducting inspections (after notification by developer) of all foundations, make-ready, electrical substructures etc. prior to backfill. Verification of soil compaction and inspection of transformer pad prior to pouring concrete.
7. Providing marker-stails (material only) for developer's installation at every conduit stub.

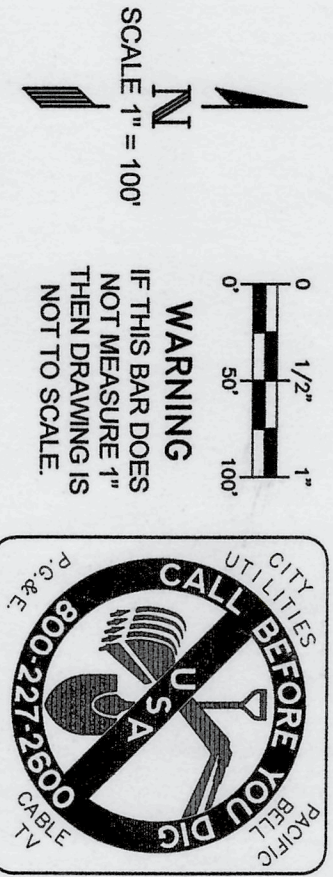
C. GENERAL NOTES

1. These drawings may not be relied upon for extent and location of existing infrastructure nor other buried objects. Existing infrastructure quantities and locations are unknown and non-exact; some known conditions have been moved and removed from drawings for clarity and convenience. Lot assumes no responsibility for the completeness and accuracy of any representation or conveyance of any underground infrastructure. Project must call USAN for mark-and-locate of facilities within scope-of-work. Project shall pit/lope and excavate as needed, to determine actual conditions.
2. Infrastructure is presented schematically. Liberties taken include large bump-outs and wide trench packages often traversing down the middle of roads. Actual routes should minimize bends/angles, being as straight as practicable. Unless otherwise noted, typical distribution trenches are located 3 to 7' behind back-of-walk.

4. Inspectors (such as those by Lodi Electric, Public Works and Building Department personnel) do not relieve the Contractor of his responsibilities for full compliance with ALL requirements herein.
5. Service voltages for the various buildings shall be 4-wires, 3-ph, 208Y/120V, unless otherwise noted on the plans.
6. The Utility may at times require the project's contractors to be available for coordination outside of normal working hours to minimize the effects (such as outages) on other customers.
7. All Public Works standards including those pertaining to roads and compaction remain in effect.
8. In the event of a conflict between these documents, Lodi Electric plans, Lodi Electric specifications, field or other direction or standards, please contact Lodi Electric Engineering for a written response.
8. All power (excepting public-streetlights) must pass through a utility-meter. For any miscellaneous services (e.g. lighted-monument, irrigation, communications-company amplifiers...), please submit approval.
10. LEU is not aware of any removal or relocation of our assets and infrastructure required for this project.
11. The Utility requests an onsite pre-construction meeting with all involved contractors and any other affected utilities present.
12. Contact LEU Construction Supervisor at (209) 333-8817 to discuss the order of work and coordination so as to minimize delays and down-time.

13. All work must abide by the Utility's Underground Distribution Specifications and Streetlight Specifications manuals, any other applicable Local Electric Standards, NEC, CEC, CPUC, and all other codes and regulations as well as all field-direction provided by Local Electric personnel.
14. The Electric Underground Distribution Specifications ("Golan Book") and the Streetlight Specifications are available at www.localelectric.com. If you are unable to obtain the specifications online or would like copies of the specifications pertinent to your project please contact LEI at (219) 335-6762.
15. **ELECTRIC UTILITY INSPECTIONS FOR THIS PROJECT WILL VIOLATE THESE PLANS.** Local Electric Utility bears no responsibility for any derivative works (such as joint-trench drawings and other considerations) made from these plans by the applicant. YOU ARE CAUTIONED in making such drawings to AVOID ALTERING any of the information herein. Deviations from Local Electric Utility's plans will result in failed inspections, rework by the applicant, additional Utility labor charges to your project, and delay of your project.

	CITY OF LODI			APPROVED BY: [Signature]	TITLE:	DATE:	DRAWN BY:	CHECKED BY:	DESIGNED BY:	DATE:
	ELECTRIC UTILITY DEPARTMENT				SERVICE UPGRADE FOR LODI UNIFIED SCHOOL DISTRICT 1305 E. VINE ST	W.O. 23077	GRID 36	SCALE N.T.S.	DWG. No. NUMBER	SHEET 1 of 3



1 POLE NO. 360080

DEVELOPER TO SUPPLY AND INSTALL:

3-2" PRIMARY CONDUITS (90 DEGREE ELBOWS AT POLE AND FIRST 10' UP POLE TO BE RIGID STEEL CONDUITS PER EUD STND #285-0320. COORDINATE WITH LODI ELECTRIC UTILITY FOR QUADRANT LOCATION OF THE PRIMARY ELBOWS/CONDUITS) FROM POLE NO. 360080 TO NEW PAD NO. 36-54 PER EUD STND #311-2002.

CITY OF LODI ELECTRIC UTILITY TO SUPPLY AND INSTALL:

- 1-12KV, 3PH, 200A RISER EUD STND #285-1232.
- 1-86" LIGHT DUTY CROSSARM (CUTOUT CROSSARM)
- 3-15KV, 100A LOADBREAK CUTOUTS ON NEW CUTOUT CROSSARM.
- 3-30AMP TYPE K FUSES (ADD FUSE #U-3624)
- 3-CUTOUT COVERS.
- 3-10 EPR AL CABLES FROM POLE NO. 360080 TO NEW PAD NO. 36-54.

2 PAD NO. 36-54

DEVELOPER TO SUPPLY AND INSTALL:

1-7'X7' PRECAST TRANSFORMER PAD WITH WELL BELOW WINDOW PER EUD STND #311-2005, #314-1008, #922-5408.
3-5" SECONDARY CONDUITS FROM TRANSFORMER PAD NO. 36-54 TO NEW 600AMP MAIN SERVICE PANEL, PER EUD STND #311-2002. (Note: 270° maximum angles, not to exceed 3-90° elbows)
PROVIDE BOLLARDS TO TRANSFORMER AT ALL SIDES OF PAD.

CITY OF LODI ELECTRIC UTILITY TO SUPPLY AND INSTALL:

- 1-75KVA, 208Y/120V, 3 PHASE, PAD MOUNT TRANSFORMER.
- DOORS FOR TRANSFORMER TO FACE WEST.
- 3-10 LOAD BREAK ELBOWS.
- 2-750MCM QUAD TO 600AMP, 208Y/120V, 3 PHASE MAIN SERVICE PANEL. (DEVELOPER TO INSTALL 1-5" SPARE SECONDARY CONDUIT FOR A TOTAL OF 3-5" SECONDARY CONDUITS)
- 3-200AMP FAULT INDICATORS.

CITY OF LODI ELECTRIC UTILITY CABLE PULLING

FROM EXISTING POLE NO. 360080 TO NEW PAD NO. 36-54

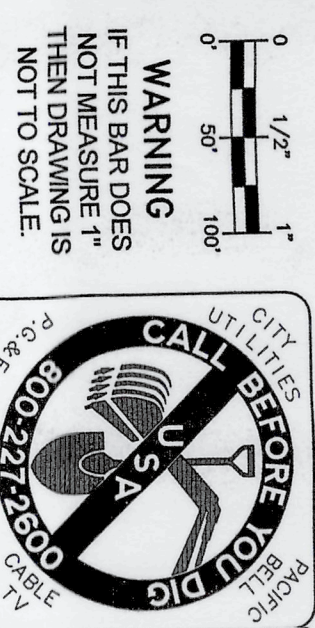
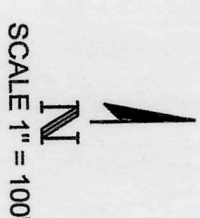
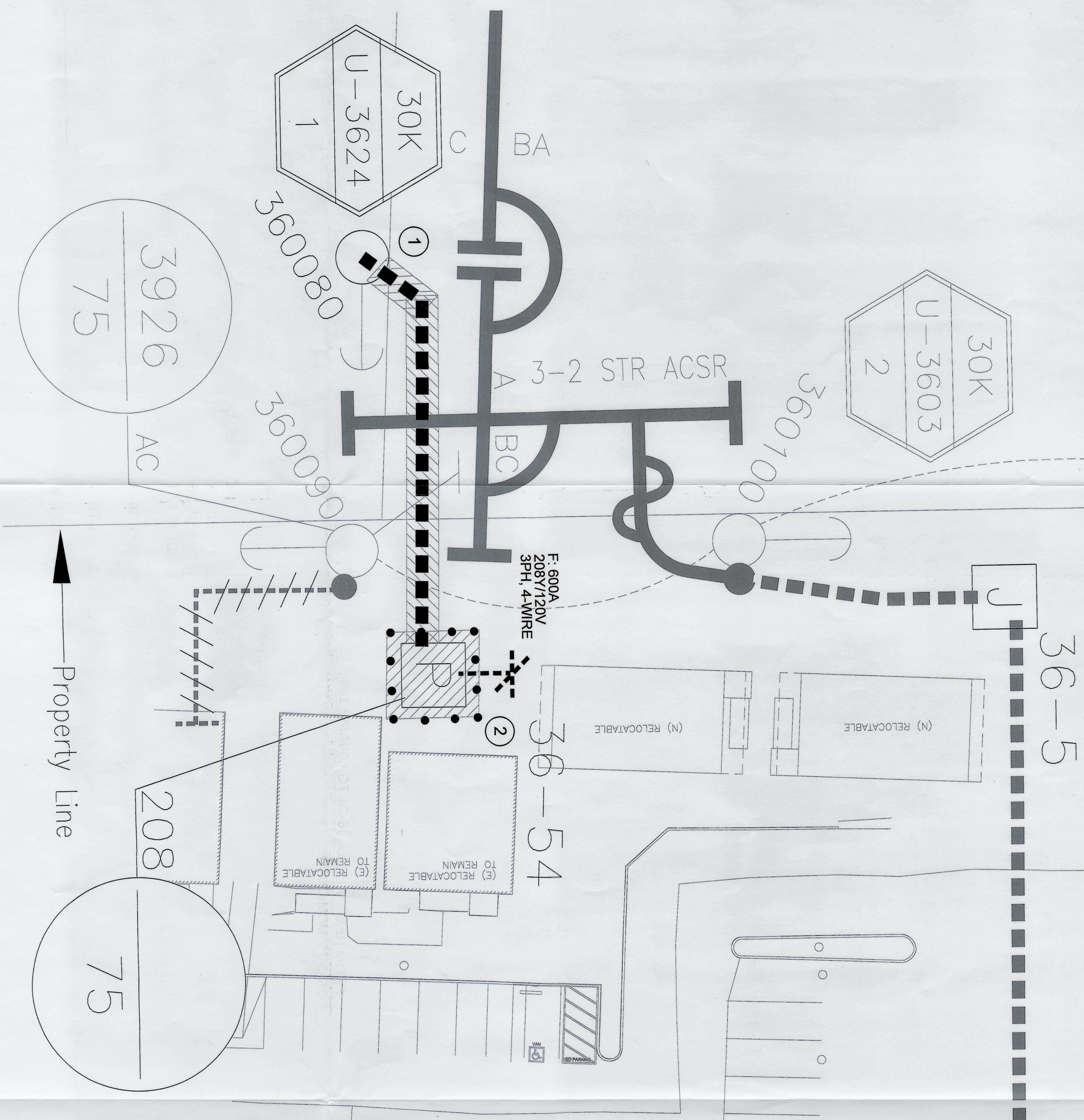
110-3-1/0 EPR AL

FROM NEW PAD NO. 36-54 TO 600AMP 208Y/120V, 3 PHASE MAIN SERVICE PANEL

25-2-750MCM QUAD

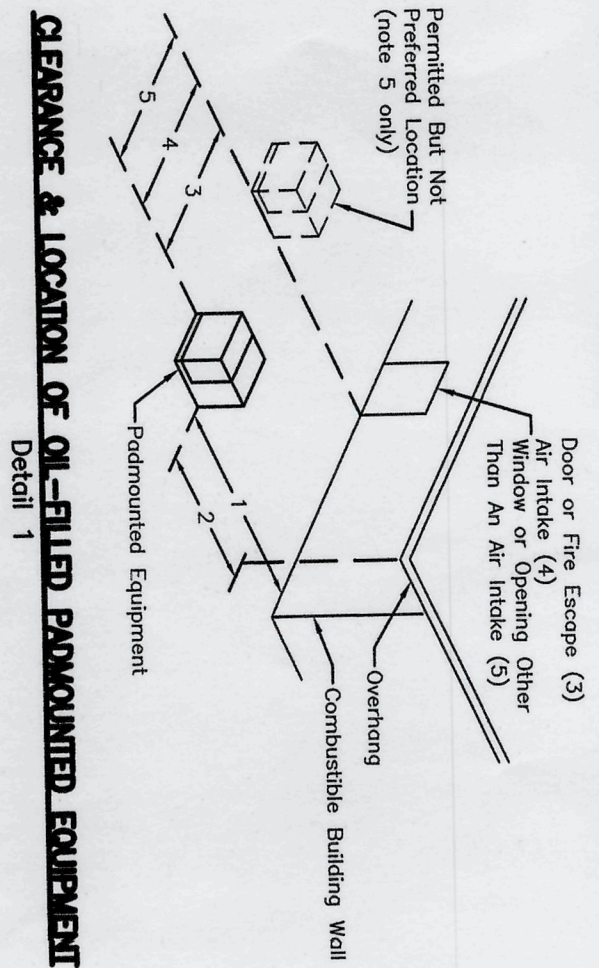
THE HATCHED AREA REPRESENTS LODI ELECTRIC UTILITY REQUIRED EASEMENTS FOR THE NEW ELECTRICAL SERVICE.

- LODI ELECTRIC UTILITY REQUIRES A 5' WIDE EASEMENT (IN ADDITION TO THE EXISTING 16.5' EASEMENT FOR A TOTAL OF 21.5') FROM POLE NO. 360080 TO PROPERTY LINE FOR THE UNDERGROUND PRIMARY CONDUCTORS AND CONDUITS, A 10' WIDE EASEMENT FROM PROPERTY LINE TO NEW PAD NO. 36-54 FOR THE UNDERGROUND PRIMARY CONDUCTORS AND CONDUITS.
- 10' X 10' EASEMENT AROUND TRANSFORMER PAD NO. 36-54.
- PLEASE HAVE YOUR SURVEYOR CONTACT LODI ELECTRIC TO MORE PRECISELY DISCUSS THE AREA WE ARE REQUIREING.
- DEVELOPER TO ENSURE ALL SINGLE PHASE LOAD WILL BE BALANCED ACROSS ALL THREE PHASES.



CITY OF LODI				APPROVED BY:	
ELECTRIC UTILITY DEPARTMENT					
10-17-23	CP	CP	h		
DATE	DESIGNED	DRAWN	CHECKED	AS BUILT	

TITLE:				SERVICE UPGRADE FOR LODI			
				UNIFIED SCHOOL DISTRICT			
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No.				W.O.			
REVISIONS				DATE			
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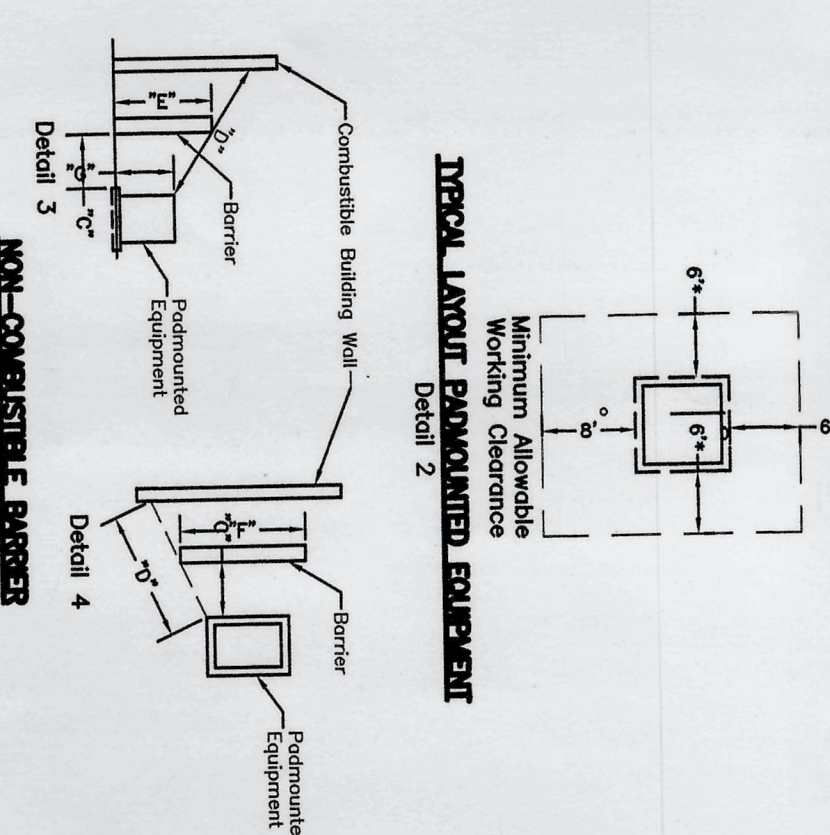


CLEARANCE & LOCATION OF OIL-FILLED PADMOUNTED EQUIPMENT
Detail 1

- NOTES:**
1. Padmounted Equipment (PME) shall not be located within a Zone extending 6 ft. on either side of the equipment. This clearance may be reduced to 3 ft. if the building wall or border is non-combustible. (See Detail 3 & 4 on sheet 2 of 2) is non-combustible, steel and non-combustible stairs.
 2. PME shall not be located within less than 28 ft. in height.
 3. PME shall not be located within a Zone extending 6 ft. outward and 3 ft. to either side of a building within a Zone extending 6 ft. outward and 10 ft. to either side of an air intake.
 4. PME shall not be located within a Zone extending 6 ft. outward and 10 ft. to either side of a building within a Zone extending 6 ft. outward and 10 ft. to either side of an air intake.
 5. PME shall not be located within a Zone extending 6 ft. outward and 10 ft. to either side of a building within a Zone extending 6 ft. outward and 10 ft. to either side of an air intake.
 6. A clear working space of 8 ft. must be provided in front of all padmounted equipment.
 7. Lifting plates must be trimmed to provide 3 ft. of clearance on the sides and back of all PME. Lifting ground cover, such as manhole covers, must be removed. Lifting plates shall be kept cleared to a distance of 6 ft. this requirement.

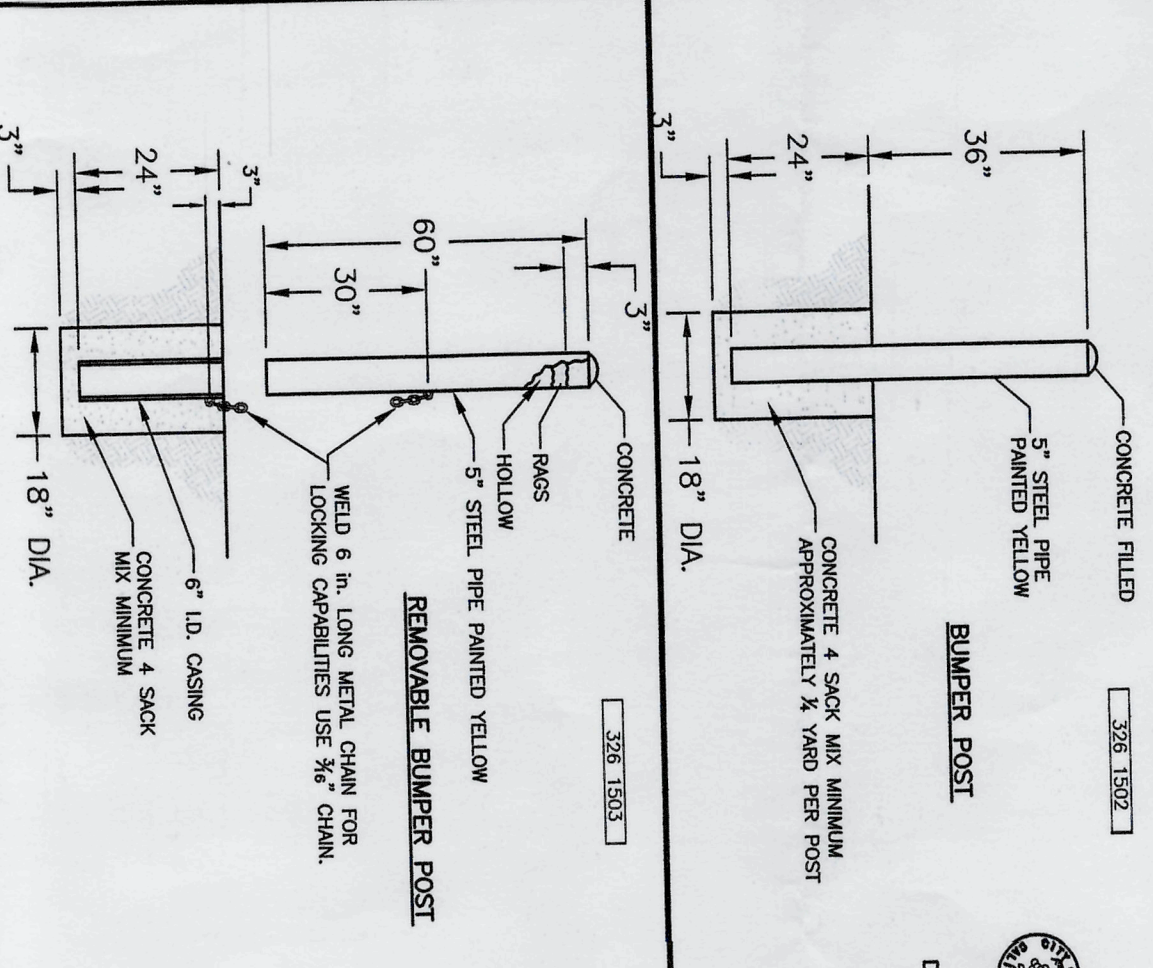
CITY OF LODI		ELECTRIC UTILITY DEPARTMENT		CONSTRUCTION STANDARD	
DATE	5/14/09	REVISION	1	OF	2
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SHEET 1 OF 2		922 5408			

TYPICAL LAYOUT PADMOUNTED EQUIPMENT
Detail 2

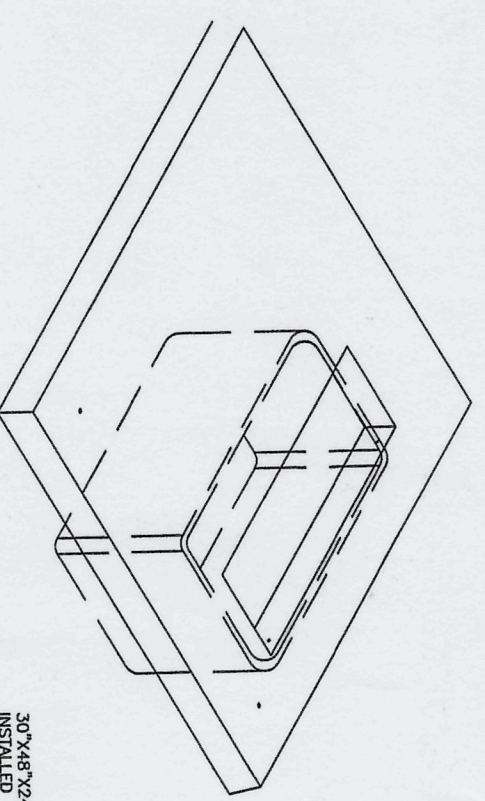


- NOTES:**
1. Required clearance between combustible building wall and pad.
 2. PME shall not be located within a Zone extending 6 ft. outward and 3 ft. to either side of a building within a Zone extending 6 ft. outward and 10 ft. to either side of an air intake.
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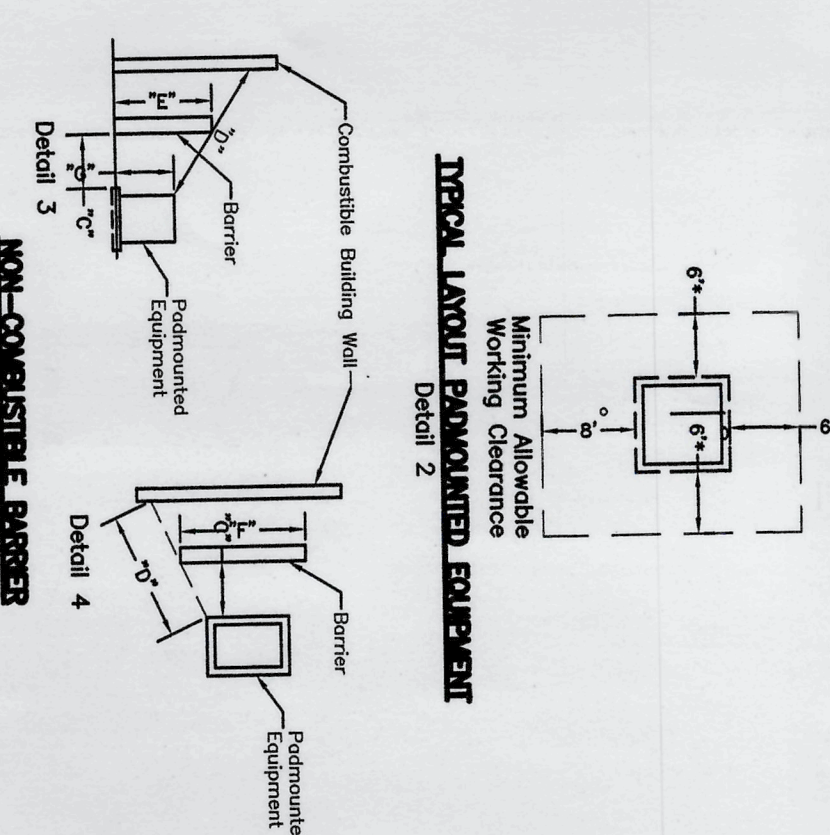


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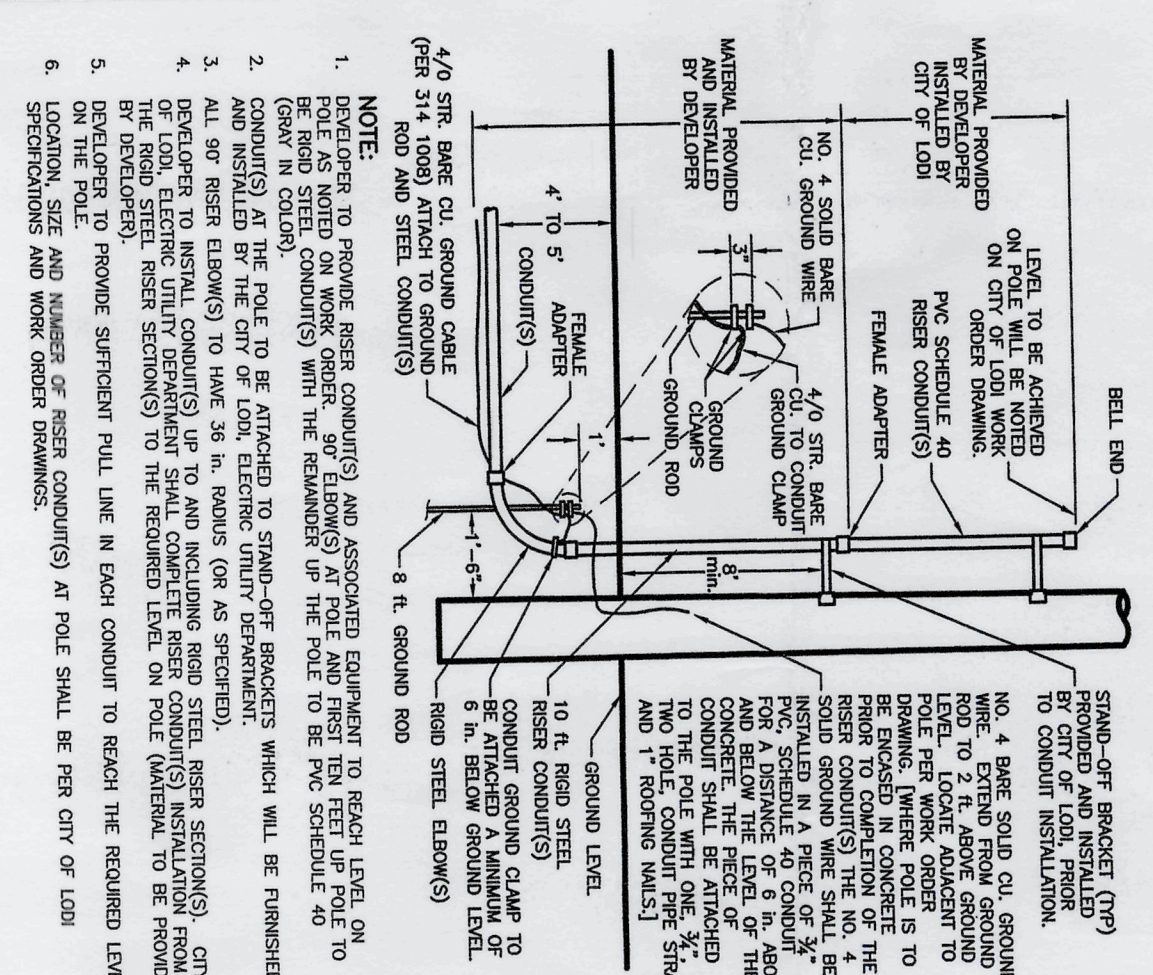
CABLE WELL INSTALLED BENEATH 3-PH XMR PAD

TYPICAL LAYOUT PADMOUNTED EQUIPMENT
Detail 3

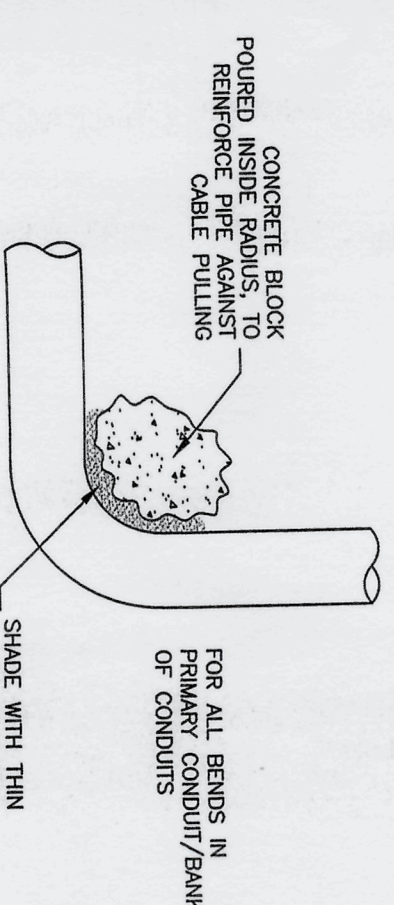


- NOTES:**
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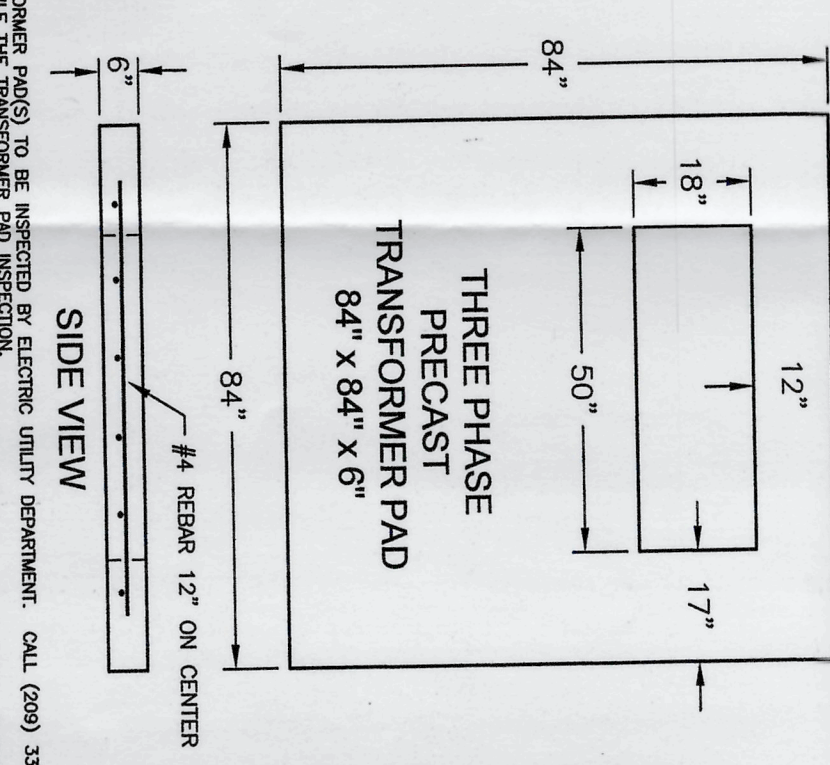


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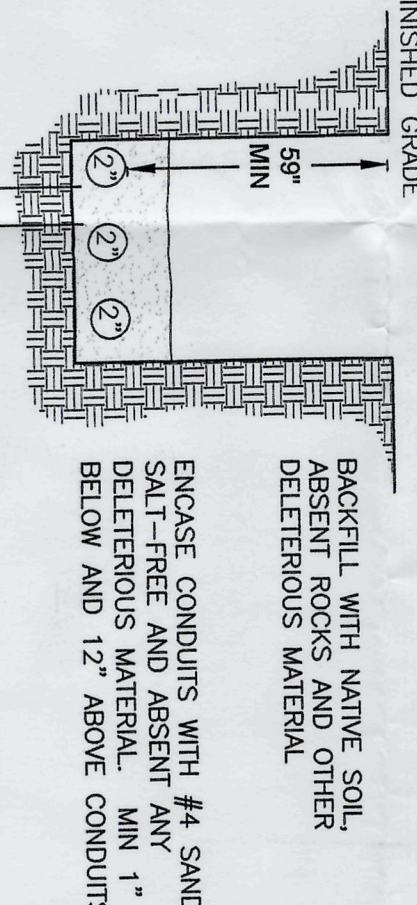
CONCRETE PROTECTION FOR ALL PRIMARY BENDS

THREE PHASE PRECAST TRANSFORMER PAD
84\"/>

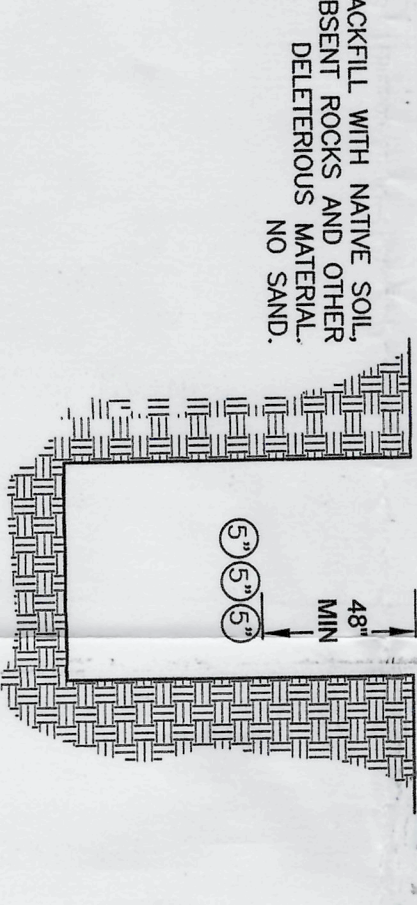


- NOTES:**
1. Transformer pads shall be designed by Electric Utility Department. Call (209) 333-8811 to design transformer pads.
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 13. Transformer pads shall be designed by Electric Utility Department. Call (209) 333-8811 to design transformer pads.

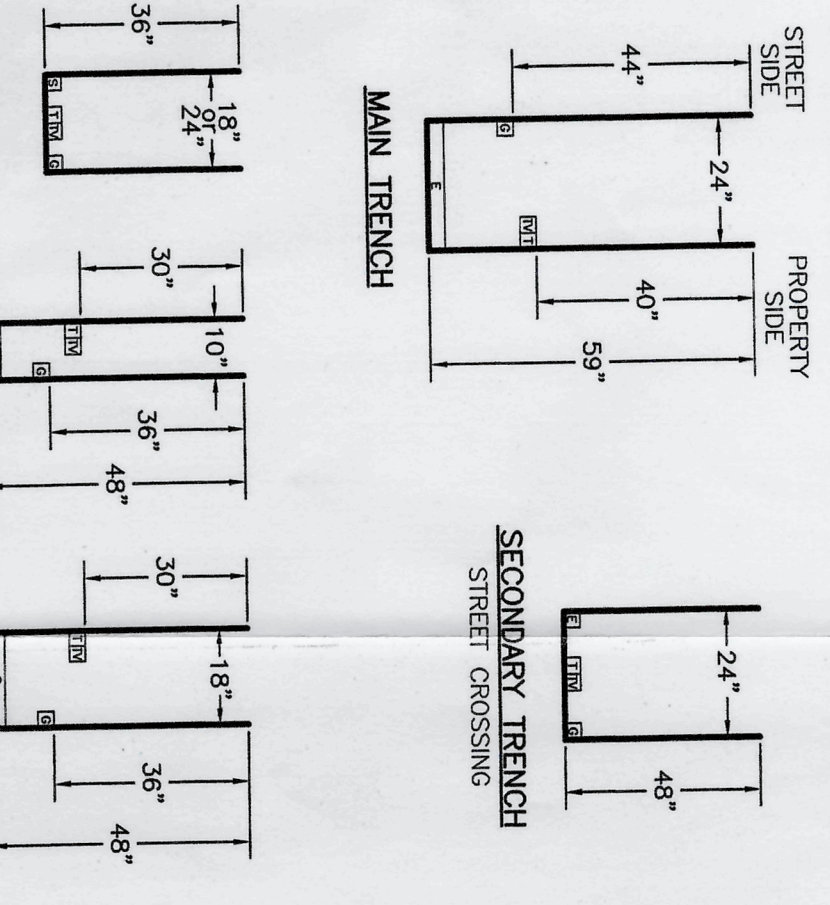
CITY OF LODI		ELECTRIC UTILITY DEPARTMENT		CONSTRUCTION STANDARD	
DATE	5/14/09	REVISION	1	OF	1
DESIGNED	BA	CHECKED	DC	APPROVED	MS
DRAWN	BA	DESIGNED	DC	APPROVED	MS
SHEET 1 OF 1		311 2005			



P.R.I. TRENCH SECTION
NO SCALE

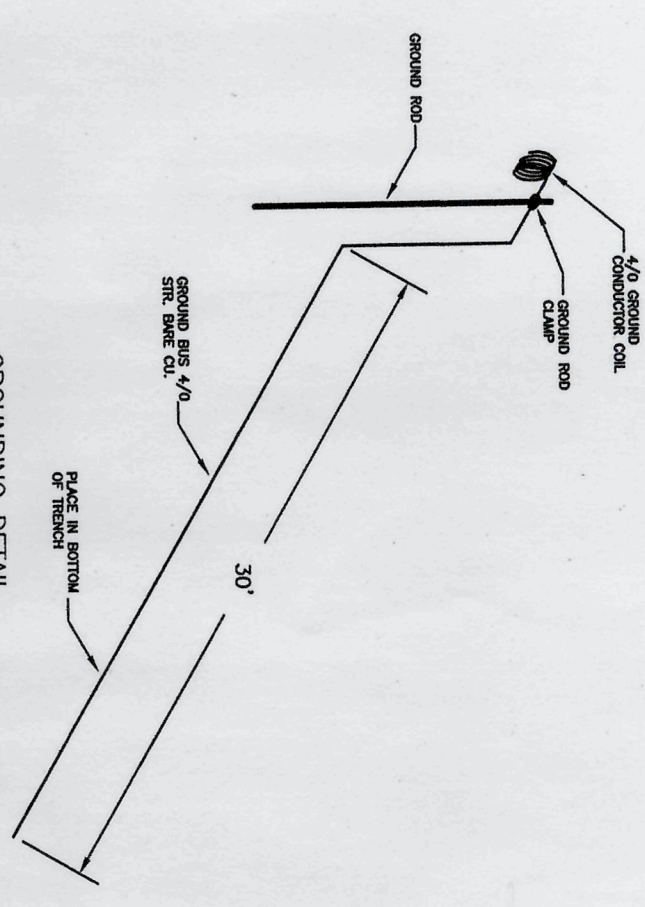


SEC. TRENCH SECTION
NO SCALE



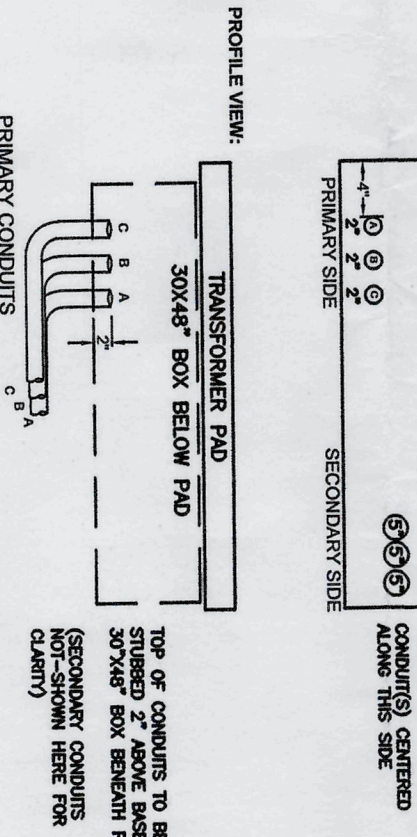
- LEGEND:**
1. GROUND BUS IS TO BE INSTALLED AT PRIMARY WALT.
 2. WHERE GROUND BUS IS TO BE INSTALLED AT PRIMARY WALT.
 3. THE GROUND ROD SHALL BE GALVANIZED STEEL OR COPPER CLAD STEEL NOT LESS THAN 3/8\"/>

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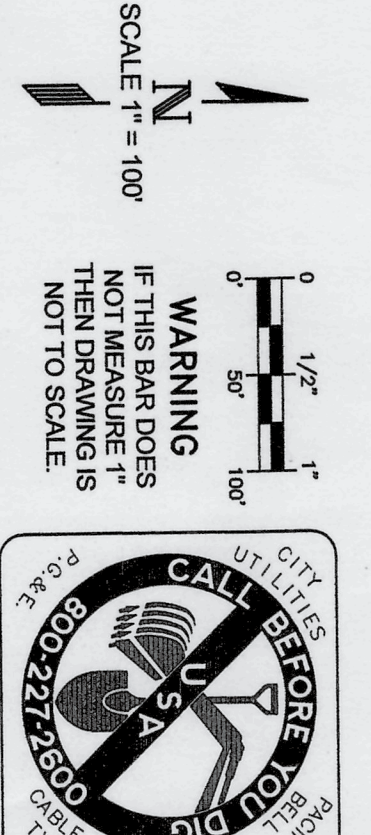


- NOTE:**
1. A COIL OF GROUND CONDUCTOR SHALL BE LEFT BEHIND THE GROUND ROD. THE COIL OF GROUND CONDUCTOR SHALL BE PLACED INSIDE THE VAULT THROUGH A SCALED OPENING IN THE VAULT (GPE).
 2. WHERE GROUND BUS IS TO BE INSTALLED AT PRIMARY WALT.
 3. THE GROUND ROD SHALL BE GALVANIZED STEEL OR COPPER CLAD STEEL NOT LESS THAN 3/8\"/>

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3 PHASE XMR PAD, PRIMARY CONDUIT LAYOUT



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