

**T-Mobile**  
Stick Together  
4100 CLARDAM  
SUN VALLEY, CA 91063

PLANS PREPARED BY:  
**CDG**  
CONNELL DESIGN GROUP, LLC  
CONSULTING CIVIL ENGINEERS  
4635 ALACRISTO COURT, SUITE 400, REDWOOD BEACH CA 92060  
(714) 722-8807 OFFICE - (714) 731-4021 FAX  
CDG#: 08-9009

CONSULTING GROUP:  
**SureSite Consulting Group, LLC**  
3659 Green Road, Suite 317  
Cleveland, Ohio 44122

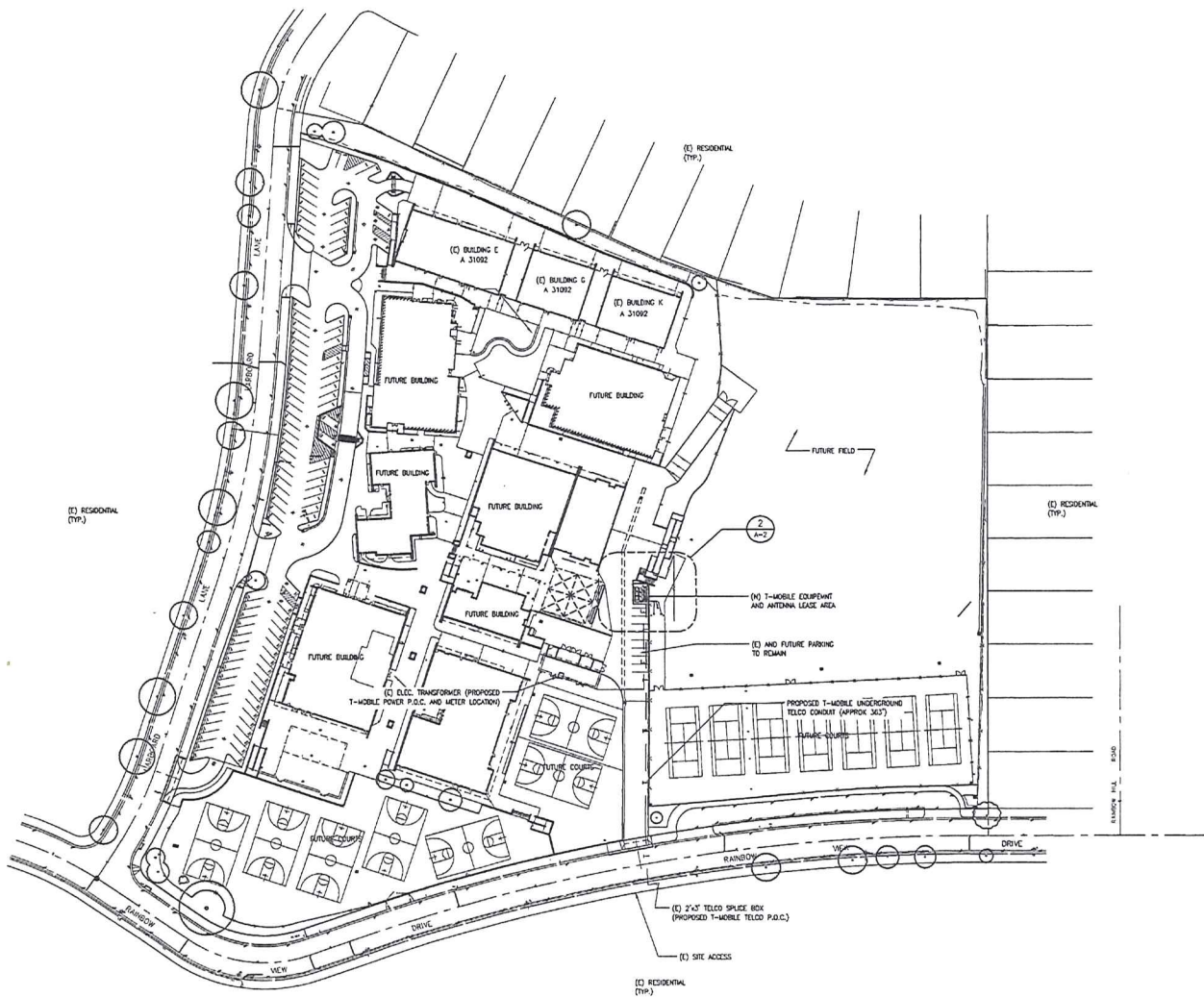
NO.	DATE	DESCRIPTION	BY

SITE INFORMATION:  
**LINDERO MIDDLE SCHOOL**  
**SV01895C**  
5844 LARBOARD LANE  
AGOURA HILLS, CA 91301  
ISSUE DATE: 09/23/08

SEAL:

SHEET TITLE:  
**EXISTING SITE PLAN**

SHEET NUMBER:  
**A-1**



**T-Mobile**  
Stick Together<sup>SM</sup>

4100 GUARDIAN  
2ND VALLEY, CA 95263

PLANS PREPARED BY:

**EDG**  
CONNELL DESIGN GROUP, LLC  
CONSULTING ENGINEERS  
4463 ALACRITY COURT, SUITE 400, RIVERPORT BEACH CA 92689  
(949) 753-8097 OFFICE • (949) 753-4833 FAX  
CDC#: 08-9009

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3659 Green Road, Suite 317  
Cleveland, Ohio 44122

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SEAL:

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SHEET TITLE:

**FUTURE SCHOOL SITE PLAN**

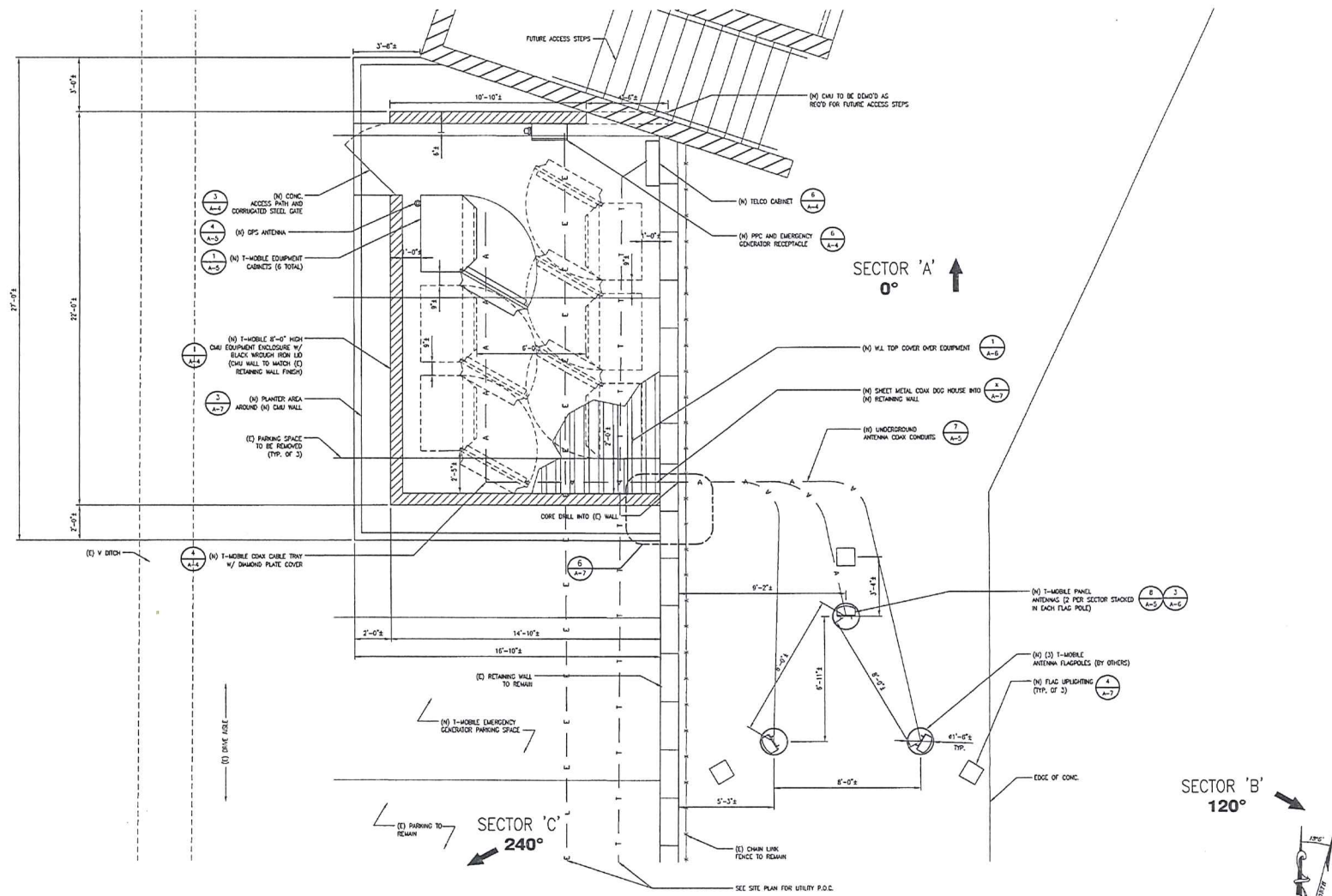
SHEET NUMBER:

**A-1.1**





NOTE:  
UTILITY P.O.D.'S TO BE DETERMINED  
UPON FUTURE SCHOOL RENOVATION.



# T-Mobile

Stick Together™

4100 GUARDIAN  
SUN VALLEY, CA 90263

PLANS PREPARED BY:

**CONNELL DESIGN GROUP, LLC**  
CONSULTING ENGINEERS  
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(949) 753-8827 OFFICE - (949) 753-8833 FAX  
CDG#: 08-9009

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SEAL:

**ENLARGED SITE PLAN**

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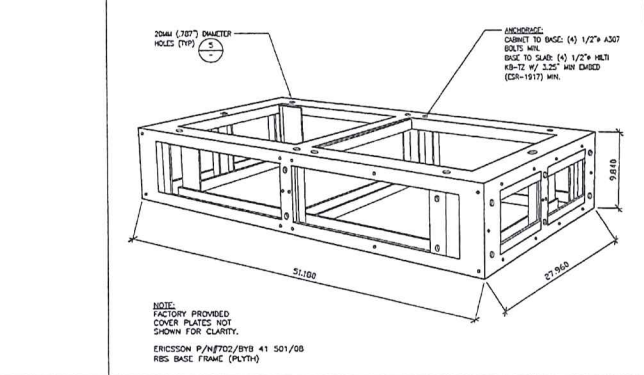
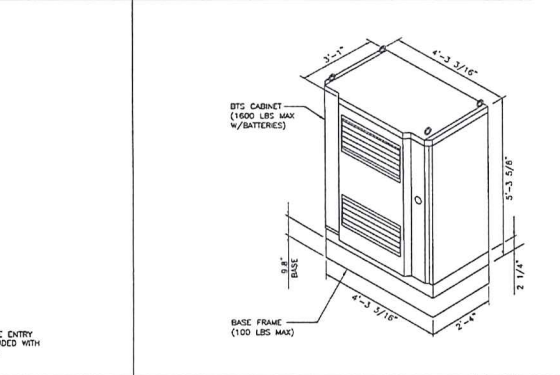
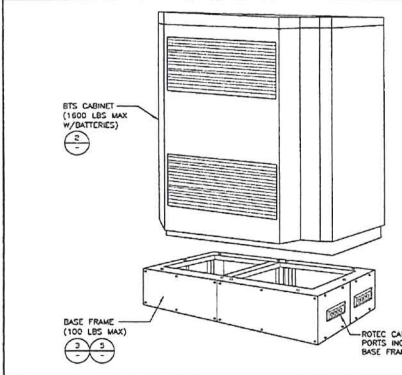
## A-2.1

EQUIPMENT / ANTENNA PLAN AT (E) SITE LAYOUT









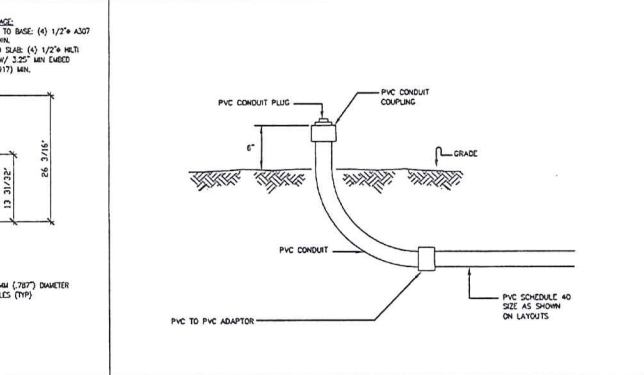
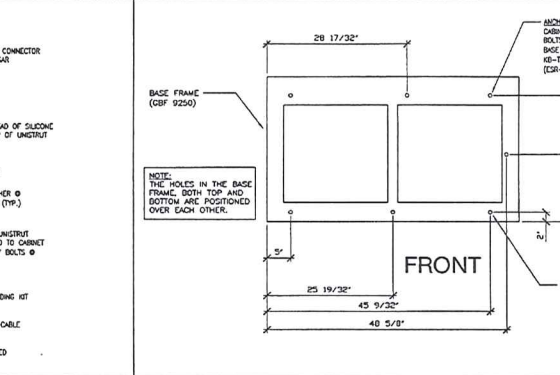
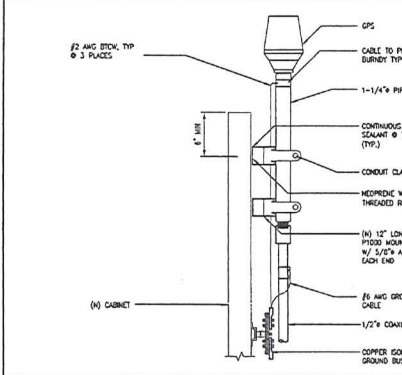
**ERICSSON CABINET W/ BASE FRAME** SCALE: N.T.S. **1**

**CABINET SPECS** SCALE: N.T.S. **2**

**RBS BASE FRAME (PLYTH)** SCALE: N.T.S. **3**

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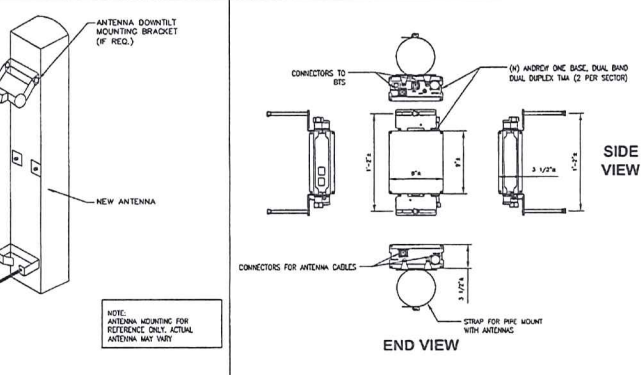
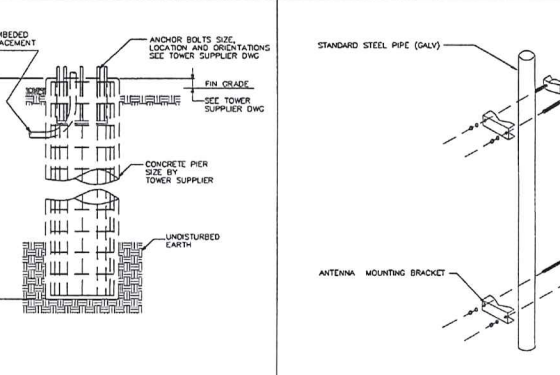
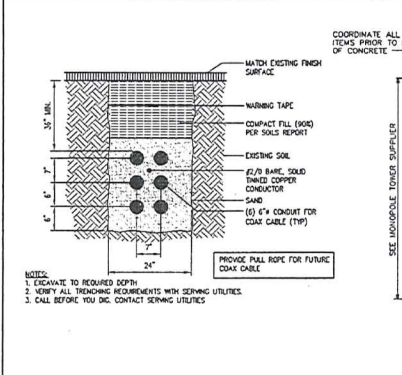


**GPS ANTENNA ON CABINET** SCALE: N.T.S. **4**

**RBS BASE FRAME HOLE PATTERN** SCALE: N.T.S. **5**

**CONDUIT STUB UP AT GRADE** SCALE: N.T.S. **6**

SEAL:  
**ARCHITECTURAL DETAILS**



**COAX TRENCH DETAIL** SCALE: N.T.S. **7**

**ANTENNA MOUNTING BRACKET** SCALE: N.T.S. **8**

**TMA DETAIL** SCALE: N.T.S. **9**

SHEET TITLE:  
**ARCHITECTURAL DETAILS**

SHEET NUMBER:  
**A-5**







**GENERAL STRUCTURE NOTES:**

- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
- NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOB SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC., UNLESS OTHERWISE NOTED. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ABOVEGROUND PIPES, DUCTS, ETC.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL KEEPING, INDEMNIFY AND HOLD HARMLESS AND THE ARCHITECT/ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ARCHITECT/ENGINEER.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND PROTECTRIVES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PROTECTRIVES. ALL CONSTRUCTION SHALL BE TO THE SITE BY THE ARCHITECT/ENGINEER SHALL NOT INFLICT INSPECTION OF SUCH ITEMS.
- ASTM SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOOR OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING/BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PROSECUTION OF THE WORK.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
- THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
- ALL ITEMS REMOVED DURING CONSTRUCTION WORK (E.G., DRYWALL, PLYWOOD, CEILING PANELS, ETC.) SHALL BE REPLACED TO MATCH EXISTING.
- THE FOLLOWING REQUIREMENTS SHALL BE MET FOR SPECIAL INSPECTION:
  - THE SPECIAL INSPECTOR SHALL BE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.
  - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ARCHITECT/ENGINEER, AND OTHER DESIGNATED PERSONS. ALL DEFICIENCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEM IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
  - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT SIGNED BY BOTH HE AND HIS SUPERVISOR STATING WHETHER THE WORK REQUIRES SPECIAL INSPECTION AND IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE "WORKMANSHIP" PROVISIONS OF THE UNIFORM BUILDING CODE.
  - COMPLY WITH ALL USA SPECIAL INSPECTION REQUIREMENTS.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OR MATERIAL FABRICATION. ANY DEFICIENCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- CONTRACTOR TO VERIFY ALL DIMENSIONS, MATERIALS ETC. WITH ARCHITECTURAL BEFORE CONSTRUCTION/FABRICATION.

**REINFORCING STEEL:**

- DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS (UNLESS OTHERWISE NOTED) MUST FOLLOW THE ACI MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 318, LATEST EDITION.
- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 OR A706 (EPOXYED BARS), NO. 3 BARS - GRADE 40, ALL OTHERS - GRADE 60. REINFORCING TO BE WELDED SHALL CONFORM TO A706.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

NOTE:  
CONTRACTOR TO FIELD VERIFY ALL (E)  
CONSTRUCTION CONDITIONS BEFORE  
SUBMITTAL OF FINAL BIDS, START OF  
CONSTRUCTION AND OR FABRICATION

**CONCRETE NOTES:**

- CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND REVIEWED BY THE ENGINEER. MINIMUM COURSE AGGREGATE SIZE IS 1/2" MAX.
- CEMENT SHALL CONFORM TO ASTM C150.
- ADMITTIVES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMITTIVES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MIN. CEMENT CONTENT. (SULFONIC CHLORIDE SHALL NOT BE USED.)
- ALL CONCRETE TO BE HANDWORK WITH THE FOLLOWING 28 DAY ULTIMATE COMPRESSIVE STRENGTH (F'<sub>c</sub>):
  - 2500 PSL
  - FOOTINGS
- READY MIX CONCRETE SHALL CONFORM TO ASTM-C94
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS. ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED SHALL BE THOROUGHLY CLEANED, LANTANCE AND STANDING WATER SHALL BE REMOVED.
- IF COLUMN AND WALL CONCRETE IS PLACED WITH FLOOR, TWO HOURS MUST ELAPSE BETWEEN END OF COLUMN OR WALL PLACEMENT AND BEGINNING OF FLOOR PLACEMENT.
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS (UNLESS OTHERWISE NOTED):
  - A- CONCRETE AGAINST DARTH (UNFORMED) 3 IN.
  - B- CONCRETE AGAINST EARTH (FORMED OR EXPOSED TO WEATHER):
    - BARS #6 & LARGER 2 IN.
    - BARS #5 & SMALLER 1-1/2 IN.
  - C- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH DARTH:
    - SLABS & WALLS (#11 BARS & SMALLER) 3/4 IN.
    - BEAMS, CEILING TIES, STRIPS, SPIRALS) 1-1/2 IN.
    - UNPROTECTED COLUMNS 2-1/2 IN.
- CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% PERCENT OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCING. UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATION OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
- PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" IN. CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE IF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE A RESIDENT TILE FINISH SHALL BE APPROVED BY THE TILE MANUFACTURER BEFORE USE.
- CONTRACTOR SHALL SUBMIT JOINT LAYOUT FOR CONCRETE WORK FOR APPROVAL OF ENGINEER. REINFORCING FABRICATION SHALL NOT BE DONE PRIOR TO OBTAINING SUCH APPROVAL.
- CONTRACTOR SHALL SUBMIT A REINFORCING PLAN AND OBTAIN APPROVAL BY THE ENGINEER BEFORE REMOVING FORMS.

**CONCRETE MASONRY LIMITS (CI-M)**

- MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530) AND THE 2007 CALIFORNIA BUILDING CODE.
- HOLLOW LOAD BEARING MASONRY UNIT SHALL CONFORM TO ASTM C-90. GRADE M-1 AND BE MADE WITH NORMAL WEIGHT AGGREGATE. THE MINIMUM COMPRESSIVE STRENGTH (F'<sub>m</sub>) SHALL BE 1500 PSI AT 28 DAYS, AS PERMITTED BY THE UNIT STRENGTH METHOD OF ACI 530.1.
- ALL CELLS FULLY WITH GROUT. GROUT SHALL CONFORM TO ASTM C-476 AND SHALL OBTAIN A MIN 28 DAY COMPRESSIVE STRENGTH OF 2500 PSL.
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615 GRADE 60. SHOP FABRICATE REINFORCING BARS WHEN ARE SHOWN TO BE HOLED OR BENT. PROVIDE MINIMUM LAP OF 45 X BAR DIAMETER AT ALL SPLICES UNLESS INDICATED OTHERWISE.
- MORTAR SHALL CONFORM TO ASTM C-270, TYPE S. ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM A-270 AND BE MADE WITH PORTLAND CEMENT/LIME (NON AIR ENTRAINED).
- PROVIDE REBAR DowELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCEMENT SIZE AND SPACING. DowELS SHALL HAVE STANDARD 90° HOOKS AND LAP WITH THE FIRST LEFT OF REINFORCING.
- THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION.
- SPECIAL INSPECTION REQUIRED FOR ALL CMU CONSTRUCTION.

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2ND VALLEY, CA 90293

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CDG#: 08-9009

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Cleveland, Ohio 44122

NO.	DATE	DESCRIPTION	BY:

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**SV01895C**  
5844 LARBOARD LANE  
AGOURA HILLS, CA 91301  
ISSUE DATE: 09/23/08

SEAL:

SHEET TITLE:

**GENERAL NOTES**

SHEET NUMBER:  
**GN-1**

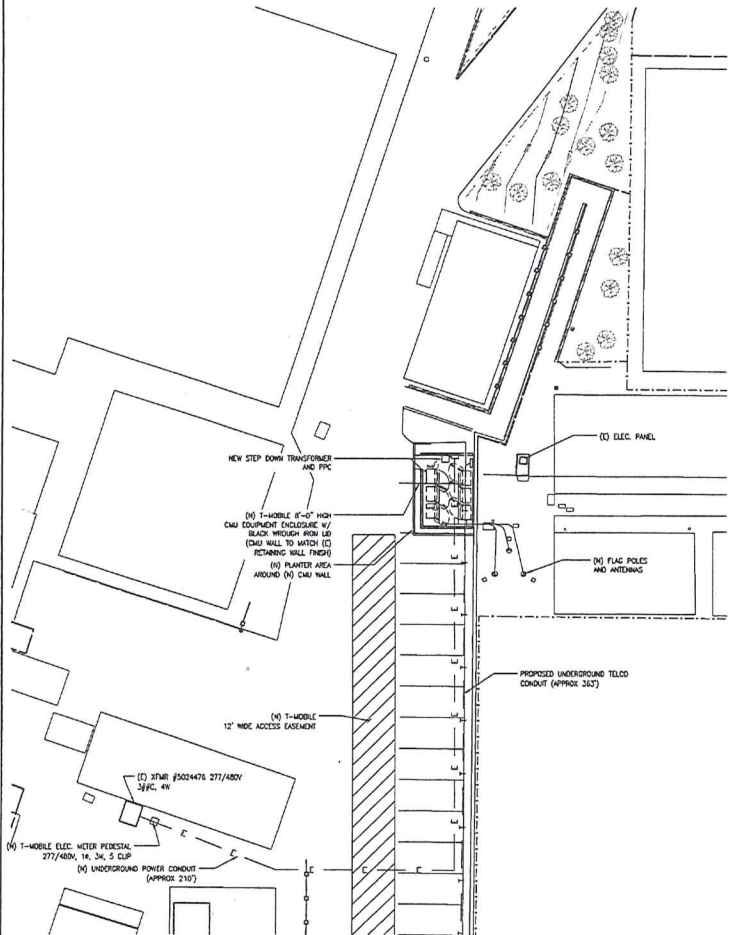
**GENERAL NOTES**



POWER UTILITY CONTACT INFO:  
 COMPANY: SCE  
 CONTACT PERSON: RYAN ROBBINS  
 PHONE: 805-497-5622

TELCO UTILITY CONTACT INFO:  
 COMPANY: AT&T  
 CONTACT PERSON: JACKIE FREEMAN  
 PHONE: 626-308-4996

NOTE:  
 CONCEPTUAL POWER & TELCO ROUTE ONLY.  
 FINAL POWER & TELCO ROUTE MUST BE  
 APPROVED BY EES PRIOR TO ANY CONSTRUCTION.



ELECTRICAL SITE PLAN

SCALE:  
 N.T.S. 1

POWER PLAN

- G — GROUNDING WIRE, DASHED LINE INDICATES UNDERGROUND
- E — POWER LINE, DASHED LINE INDICATES UNDERGROUND, 3/4" TC-2#12&#1120ND, UND
- T — TELEPHONE LINE, DASHED LINE INDICATES UNDERGROUND
- A — COAXIAL CABLE, DASHED LINE INDICATES UNDERGROUND
- (2) — DETAIL REFERENCE DETAIL NO. 2 ON SHEET E3
- ⊗ — GROUND ROD
- ⊕ — GROUND ROD WITH ACCESS
- ⊞ — FUSED DISCONNECT SWITCH, 240V, 2P, 20A, WEATHERPROOF
- ⊞ — UTILITY METER
- ⊞ — CIRCUIT BREAKER
- ⊞ — FLUSE
- ⊞ — DUPLEX RECEPTACLE WITH GFCI IN WEATHERPROOF ENCLOSURE
- ⊞ — SWITCH, 120VAC, 20A
- ⊞ — SWITCH LEG
- M — MANUAL MOTOR STARTER
- — CLAMP OR DOUBLE HOLE LUG TYPE GROUND CONNECTION
- — EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION CONNECTION TO GROUND HALO

- AWG — AMERICAN WIRE GAUGE
- AFC — AVAILABLE FAULT CURRENT
- BTC — BARE TRINED COPPER WIRE
- BT — BASE TRANSMISSION SYSTEM
- C — CONDUIT
- CB — CIRCUIT BREAKER
- CO — CONDUIT ONLY
- DO — DOWNING
- DMC — ELECTRICAL METALLIC TUBING
- (E) DR EX — EXISTING
- (F) — FUTURE EQUIPMENT
- GEN — GENERATOR
- GFI — GROUND FAULT CIRCUIT INTERRUPTER
- GND — GROUND
- KAC — THOUSAND AMPS INTERRUPTING CAPACITY
- NEMA — NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- (N) — NEW (PROVIDE AND INSTALL UNLESS NOTED OTHERWISE)
- P — PIVOT
- P.O.C. — POINT OF CONNECTION
- PVC — POLYVINYL CHLORIDE CONDUIT
- (R) — REPLACE OR REPAIR WITH AS EXISTING
- RGS — RIGID GALVANIZED STEEL
- TEL — TELEPHONE
- TYP. — TYPICAL
- U.C. — UNDERGROUND UNLESS NOTED OTHERWISE
- UND — UNDERGROUND
- W — WIRE
- WP — WEATHERPROOF EQUIPMENT

SYMBOLS

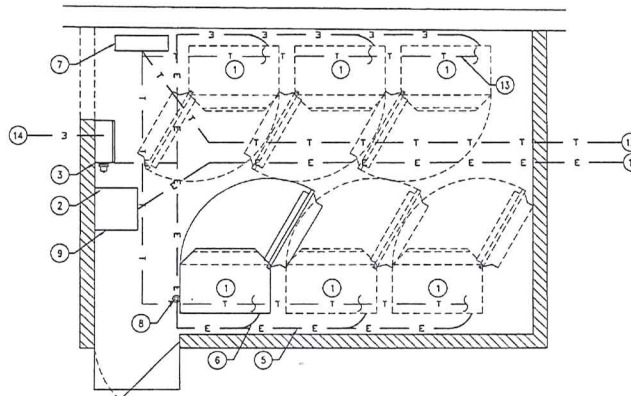
SCALE:  
 N.T.S. 2

ABBREVIATIONS

SCALE:  
 N.T.S. 3

CONSTRUCTION KEY NOTES:

- 1 NEW T-MOBILE (6) ERICSSON RGS 2106 EQUIPMENT CABINETS
- 2 NEW T-MOBILE EMERGENCY GENERATOR RECEPTACLE
- 3 NEW T-MOBILE POWER PROTECTION CABINET (PANEL 'A')
- 4 NOT USED
- 5 3/4" RGS CONDUIT FOR POWER (TYP EACH CABINET)
- 6 FROM RGS CONDUIT USE FLEX TO BACK OF PEDESTAL (HIPPLE), THEN CONTINUE FLEX TO EQUIPMENT (TYP)
- 7 NEW AT&T TELCO CABINET
- 8 NEW GPS ANTENNA
- 9 NEW T-MOBILE STEP DOWN TRANSFORMER (277/480V-120/240V)
- 10 NOT USED
- 11 NEW T-MOBILE U.G. POWER RUN (SEE SITE PLAN)
- 12 NEW T-MOBILE U.G. TELCO RUN (SEE SITE PLAN)
- 13 MULTIPLE TELCO CABLES ROUTED THRU BASE PEDESTALS
- 14 TO FLAG POLE UPLIGHTING



SCALE:  
 3/8"=1'-0" 4

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SEAL:  
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SHEET TITLE:  
**ELECTRICAL SITE PLAN, POWER & RF CONFIGURATION**

SHEET NUMBER:  
**E-1**

1. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION ACCEPTABLE BY THE JURISDICTION OF THE NATIONAL ELECTRICAL CODE, CALIFORNIA ELECTRICAL CODE, STATE FIRE MARSHALL REGULATIONS, AND ALL OTHER STATE AND LOCAL CODES, LAWS, AND ORDINANCES PERTAINING TO THE SUBJECT MATTER ALBET NOT SHOWN ON DRAWINGS OR SHOWN OTHERWISE.
2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION REQUIREMENTS.
3. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN HIS BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH INTENT OF THE ELECTRICAL DRAWINGS, SPECIFICATIONS, SERVING UTILITY COMPANY'S REQUIREMENTS AND ALL APPLICABLE CODES. SUBMITTAL OF BID INDICATES CONTRACTOR IS COORDINATOR OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT BEFORE SUBMITTING BID. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, POWER AND TELEPHONE SERVICE REQUIREMENTS WITH UTILITY SERVICE PLANNER AND THE EXACT SERVING UTILITY POINTS OF CONNECTION AND PROVIDE ALL SERVICE RELATED EQUIPMENT AND INSTALLATION IN BID. UTILITY SERVICE REQUIREMENTS SHOWN ON THE DRAWINGS ARE BASED ON PRELIMINARY SITE VISIT AND INFORMATION AVAILABLE AT THE TIME OF VISIT AND ARE NOT GUARANTEED BY ENGINEER OR SERVING UTILITY COMPANY. REFER TO ARCHITECTURAL DRAWINGS AND VISIT SITE PRIOR TO BID TO REVIEW EXISTING TOPOGRAPHY MAPS, LANDSCAPING AND CONSTRUCTION TO BECOME FAMILIAR WITH SLOPS, CONDITIONS AND EXISTING CONSTRUCTION AND LANDSCAPING. ADJUST CONDUIT ROUTING INDICATED TO AVOID DISTURBING EXISTING CONDITIONS WHERE POSSIBLE. SAVOUR EXISTING SURFACE WHERE REQUIRED FOR CONDUIT AND STRUCTURE INSTALLATION AND PATCH TO MATCH EXISTING. REPAIR OR REPLACE ALL SOO. LANDSCAPING, SPRINKLER SYSTEMS, CONDUITS AND WIRING, PIPING ETC. ALTERED BY THE ELECTRICAL WORK TO MATCH EXISTING AND TO MAKE SYSTEMS OPERABLE.

4. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NECA MANUAL OF GOOD WORKMANSHIP (STANDARD OF INSTALLATION).
5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, INCLUDING BUT NOT LIMITED TO COMPLETE ELECTRICAL SYSTEMS, POWER AND LIGHTING, CONTROL SYSTEMS, SIGNAL SYSTEMS, PANELBOARDS(S), CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC. FOR A COMPLETE AND PROPERLY OPERATING SYSTEM, ENERGIZED THROUGHOUT AND AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.

6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT EACH GROUP OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE APPROVAL LABEL, BE SUBJECT TO SIGN APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NECA, AND NFPA.
7. IF SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND CONDITIONS. HE SHALL ISSUE A WRITTEN NOTICE OF ALL FININGS TO THE ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.

8. ALL WIRING SHALL BE IN METALLIC CONDUIT. RIGID GALVANIZED CONDUIT SHALL BE USED IN OR UNDER CONCRETE SLABS ON GRADE FIVE FEET BEFORE STIRRING UP, WHERE EXPOSED TO WEATHER, AND WHERE SUBJECT TO MECHANICAL DAMAGE. FLEXIBLE CONDUIT SHALL BE USED UNDER CONCRETE OR BARRER UNDERGROUND. EMT CONDUITS SHALL BE USED INSIDE STRUCTURE OR BUILDINGS. FLEXIBLE CONDUIT SHALL BE USED WHERE THE STRUCTURAL CONDITIONS MAKE THE USE OF RIGID CONDUIT IMPRACTICAL, AND FOR SHORT CONNECTIONS TO VIBRATING EQUIPMENT. USE NEOPRENE JACKETED FLEXIBLE CONDUIT AND FITTINGS WHERE EXPOSED TO WEATHER.

9. ALL WIRING SHALL BE CONCEALED IN FINISHED AREAS. INSTALL EXPOSED RACEWAYS PARALLEL TO AND PERPENDICULAR TO THE LINES OF BUILDING. CONDUITS TO MATCH METALLIC PROTECTIONS OF ALL WALLS OR CEILING SHALL BE SEALED AND FIVE RATING MAINTAINED IN ACCORDANCE WITH NFPA 70. ALL WIRING AND ALL LOCAL AND NATIONAL ELECTRICAL CODES. PENETRATE OR RUN CONDUITS IN AND OUT OF RATED CORRIDOR OR STAIRWELL ENCLOSURE FOR CIRCUITS NOT INTENDED TO SERVE THE EQUIPMENT WITHIN THE ENCLOSURE. CONDUIT MUST BE RUN OUTSIDE OF RATED ENCLOSURE ENVELOPES.
10. ALL CONDUCTORS SHALL BE COPPER AND RATED 600 VOLTS. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 75C RATED COPPER TYPIC "DUAL RATED THIN/WALL" #12 & #10 SDO. #8 AND LARGER STRANDED. CONTROL AND SIGNAL WIRING SHALL BE STRANDED.

11. OUTLET BOXES SHALL BE CAST FERROUS METAL WITH WATERIGHT GASKETED CAST FERROUS COVERS, THREADED HUBS, AND STAINLESS STEEL SCREWS. USE CROSS-HANDS OR APFLATION TYPE FS OR FD BOXES OR APPROVED EQUAL BY ENGINEER.
12. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS WITH CONSTRUCTION MANAGER BEFORE ROUGH-IN.

13. ELECTRICAL LAYOUT DRAWINGS ARE DIMONAMATIC. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH STRUCTURES OR OTHER SYSTEMS.
14. ALL SURFACE-MOUNTED ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROPERLY SECURED. PROVIDE STRUCTURAL SUPPORT AS NECESSARY FOR MOUNTING EQUIPMENT.
15. CONTRACTOR SHALL LABEL THE COVER PLATE OF EACH ELECTRICAL OUTLET AND JUNCTION BOX WITH INDULIBLE INK FELT PEN THE LABEL SHOULD SHOW PANEL AND CIRCUIT NUMBER CONTAINED IN THE BOX.

16. GROUP CONDUITS TOGETHER AND SUPPORT WITH UNDRINTR.
17. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS. ALL EQUIPMENT AND STUB-UP LOCATIONS SHALL BE VERIFIED WITH ENGINEER BEFORE ROUGH-IN.
18. PROVIDE SEPARATE GROUND WIRE IN ALL FLEXIBLE AND PVC CONDUITS.
19. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM.

20. TEST THE ENTIRE SYSTEM TO DEMONSTRATE THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY, INCLUDING BUT NOT LIMITED TO INSULATION AND GROUNDING TESTS. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION.
21. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
22. AT COMPLETION OF THE JOB, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH SPARE PARTS, ALL THE EQUIPMENT MANUALS, SPARE PARTS LIST AS RECOMMENDED BY THE MANUFACTURER, EQUIPMENT REPRESENTATIVE ADDRESS AND PHONE NUMBER. FURNISH ONE (1) COMPLETED SET OF "AS-BUILT" ELECTRICAL PLANS SHOWING LOCATIONS OF OUTLETS, CONDUIT ROUTING, PANELBOARDS, CIRCUIT NUMBERS. ELECTRICAL CONTRACTOR SHALL PROVIDE ACCURATE DIRECTIONS IN PANELBOARD FRONTS AS TO LOCATION OF D.O.S.-OUT. PANELBOARD DIRECTORIES SHALL INCLUDE THE EQUIPMENT SERVED AND WATTAGE.

23. REFER TO T-MOBILE'S STANDARD SPECIFICATIONS AS PART OF THIS CONSTRUCTION DOCUMENT. ANY CONFLICT BETWEEN THESE DRAWING, T-MOBILE'S STANDARD SPECIFICATIONS, AND APPLICABLE CODES, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL.
24. ALL WORK TO BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
25. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, UNLESS NOTED OTHERWISE AND COORDINATED WITH THE GENERAL CONTRACTOR.
26. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:
  - FIXED EQUIPMENT ON GRADE 33% OF OPERATING WEIGHT
  - FIXED EQUIPMENT ON STRUCTURE 30% OF OPERATING WEIGHT
  - EMERGENCY POWER & COMMUNICATION EQUIPMENT ON GRADE 30% OF OPERATING WEIGHT
  - EMERGENCY POWER & COMMUNICATION EQUIPMENT ON STRUCTURE 75% OF OPERATING WEIGHT
 FOR FLEXIBILITY OF MOUNTED EQUIPMENT USE 2X THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE 1/3X HORIZONTAL FORCE.
27. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT AT ALL TIME. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

**CONDUITS:**  
 1. 1"-2" MINIMUM DIAMETER DUCT OF APPROVED MATERIAL.  
 WITHIN OR ON BUILDINGS-RIGID GALVANIZED STEEL (WHEN REQUIRED), OR ELECTRO-METALLIC TUBING(EMT).  
 IN UNDERGROUND - PVC SCHEDULE 40 OR EQUIVALENT FOR STRAIGHT SECTIONS, BENDS SHALL BE PVC SCHEDULE 80.  
 PULL ROPES IN ALL DUCTS (MIN. 3/8" POLY PULL ROPE) AND A MEASURING TAPE MUST BE IN PLACE TO DETERMINE "AS-BUILT" CONDUIT LENGTH; BOTH MUST BE IN ONE CONTINUOUS PIECE.  
 2) WITHIN BUILDINGS  
 ELECTRICAL LET'S AND CONDUITS ARE ALL ACCEPTABLE AS PULL BOXES.  
 NO 90 DEGREE TRANSITIONS AT OR IN PULL BOXES (UNLESS A 10" BENDING RADIUS CAN BE MAINTAINED)  
 IN-LINE PULL BOX MINIMUM DIMENSIONS = 24" X 6" X 6". 30% X 6" X 6" PREFERRED.  
 PULL BOXES MUST BE EASILY ACCESSIBLE (TELEPHONE COMPANY WILL NOT REMOVE CORKING TEES).  
 VERTICAL SECTIONS OF CONDUIT WILL REQUIRE A PULL BOX EVERY 100 FEET AND APPROVED RESTRAINTS.  
 MAXIMUM OF 300 FEET HORIZONTAL BETWEEN PULL-BOXES.  
 MAXIMUM OF 2-90 DEGREE BENDS BETWEEN PULL-BOXES.  
 MINIMUM CONDUIT BEND RADIUS OF 10 CABLE DIAMETERS (12").  
 FIRE STOPPING REQUIRED WHEN OPENINGS ARE MADE IN ANY FIRE RATED BARRIER  
 ALL EXTERNAL CONDUIT TERMINATIONS SHALL BE WEATHER TIGHT.  
 3) IN UNDERGROUND CONSTRUCTION  
 CONDUIT LENGTH MAXIMUM OF 300 FEET BETWEEN PULL BOXES.  
 CONDUIT BENDS MUST HAVE A RADIUS 10 TIMES CONDUIT SIZE (20").

**TRENCHING:**

1. MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY - 18" UNDER CONCRETE SURFACE OR AS SPECIFIED BY PERMITTING OWNER/AGENT.
2. MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY - 24" UNDER DIRT SURFACE OR AS SPECIFIED BY PERMITTING OWNER/AGENT.
3. MINIMUM COVERAGE OF DUCT IN PUBLIC R/W - 30" BELOW GUTTER GRADE OR AS SPECIFIED BY PERMITTING AGENT.
4. MINIMUM 12" SEPARATION IN JOINT TRENCH BETWEEN POWER AND TELCO.
5. PULL BOXES - MINIMUM 17" W X 30" L.
6. SPLICE BOXES WILL BE SIZED BY SERVING TELEPHONE COMPANY; DETAILS WILL BE PROVIDED BY TELEPHONE COMPANY OR INTERCONNECT ENGINEER.

**BONDING & GROUNDING:**

- 1) # 6 AWG SOLID COPPER INSULATED GROUND WIRE (2X" COILED IN TELCO SERVICE BOX) WITH BONDING CLAMPS IN PLACE. THE TELEPHONE GROUND MUST BE BONDED TO THE POWER GROUND. THE TELEPHONE SERVICE CABINET MUST BE BONDED TO THE TELEPHONE GROUND WIRE. ANY QUESTIONS REGARDING TELEPHONE GROUNDS SHOULD BE REFERRED TO THE INTERCONNECT ENGINEER.
- 2) 3/4" PLYWOOD BACKBOARD MOUNTED IN SERVICE BOX.  
 36" CLEARANCE FROM GROUND LEVEL TO BOTTOM OF SERVICE BOX PREFERRED.  
 FULL ACCESS FROM FRONT OF BOX; MINIMUM 36" WORKING SPACE IN FRONT AND 36" IN WIDTH.  
 BOX MUST BE WATER RESISTANCE, NECA 4, GALVANIZED STEEL BOX PAINTED INSIDE AND OUT AND WITH HASP AND PADLOCK.

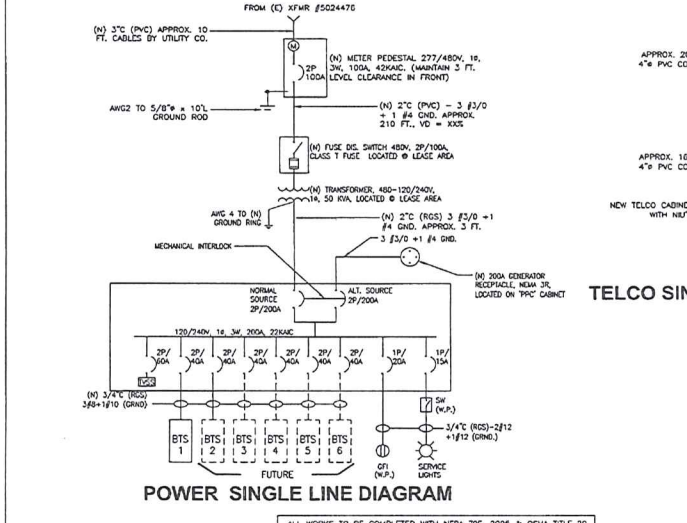
120/240V, 1Ø, 3Ø MAIN CB : 2P/200A BUS : 200A												MOUNTING : SURFACE NEMA : 3P A.I.C. : 22KA											
VOLT AMPS				P O L L				P O L L				VOLT AMPS											
PHASE	PHASE	DESCRIPTION	QTY	PHASE	PHASE	DESCRIPTION	QTY	PHASE	PHASE	DESCRIPTION	QTY	PHASE	PHASE										
A	B			A	B			A	B			A	B										
-	-	TVSS	2 60 1					2 20 1															
		BTS #1	-					4 15 1				180											
		3070	-										100										
		BTS #2 (FUTURE)	2 40 9																				
		3070	-																				
		BTS #3 (FUTURE)	2 40 11																				
		3070	-																				
		BTS #4 (FUTURE)	2 40 17																				
		3070	-																				
		BTS #5 (FUTURE)	2 40 21																				
		3070	-																				
		BTS #6 (FUTURE)	2 40 25																				
		3070	-																				
		SPACE	28																				
18,420 18,420 VA/LINE												180 100											
PHASE A = 18,600												PHASE B = 18,520											
TOTAL CONNECTED LOAD = 37.1 KVA												37.1 + 1.5 = 38.6 KVA											
TOTAL DESIGN LOAD = 150.0A												150.0A											
TOTAL DESIGN AMP = 150.0A												150.0A											

**PANEL SCHEDULE**

**SINGLE LINE DIAGRAM NOTES:**

1. MAXIMUM AVAILABLE FAULT SERVING UTILITY COMPANY'S STANDARD INDICATES THAT THE MAXIMUM AVAILABLE FAULT WILL NOT EXCEED 42 KA. CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL AVAILABLE FAULT AT THE TIME OF CONSTRUCTION WITH SERVING UTILITY CO.
2. ALL CURRENT CARRYING DEVICES SHALL BE U.L LISTED AND BRACED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT AT ITS TERMINALS.
3. SERIES/COMBINATION SHORT CIRCUIT RATINGS MAY BE USED WHEN OVERCURRENT DEVICE COMBINATIONS ARE LISTED UNDER UL 67 STANDARD AND INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (N.E.C.) ARTICLE 110-9, 110-22 AND OTHER APPLICABLE SECTIONS.
4. APPLICABLE SERIES/COMBINATION RATED EQUIPMENT LOCATIONS SHALL BE CLEARLY MARKED "CAUTION - SERIES RATED SYSTEM" IN COMPLIANCE WITH 2002 NEC SECTION 110-22. END-USE EQUIPMENT SHALL ALSO BE MARKED WITH THE HIGHER SERIES COMBINATION INTERRUPTING RATING AS PER 2002 NEC AND 2004 CEC.
5. POWER TO EQUIPMENT SHALL BE 200A, 240V, 1Ø, 3Ø, OR 2Ø8 VOLTS.
6. PROVIDE A MIN. 36" WORK CLEARANCE IN FRONT OF PANELS/ELECTRICAL EQUIPMENT.
7. ALL WIRING SHALL BE COPPER TYPE THIN/WALL RATED FOR 75° C.
8. CONDUIT REQUIREMENTS (TYP. U.L.O.): UNDERGROUND: PVC (SCHED. 40 OR 80) INDOOR: EMT (RVS IN TRAFFIC AREAS) OUTDOOR (ABOVE GRADE): RGS (ADJUST CONDUIT FILL FOR SCHEDULE 80 PVC CONDUITS)
9. CABINET CIRCUIT BREAKERS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
10. PROVIDE A WHITE PHONOLIC SIGN WITH 3/4" RED ENGRAVED LETTERING ON PANEL "A" DOOR THAT READS "DISCONNECT GROUND TO NEUTRAL BONDING AT THE PORTABLE EMERGENCY GENERATOR PRIOR TO CONNECTION."
11. DO NOT INSTALL THE OPTIONAL NEUTRAL TO GROUND BONDING JUMPER PROVIDED WITH THE PPC. PPC SHALL NOT BE USED AS THE MAIN SERVICE EQUIPMENT (PER T-MOBILE STANDARD).
12. T-MOBILE REQUIRES A MAIN SERVICE RATED BRACKER IN ALL METER BOXES

SCALE: 2 N.T.S.



**POWER SINGLE LINE DIAGRAM**

**GENERAL NOTES & SPECIFICATIONS**

SCALE: 1 N.T.S.

**POWER & TELCO SINGLE LINE DIAGRAM**

SCALE: 3 N.T.S.

**T-Mobile**  
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 SHIM VALLEY, CA 90263  
**PLANS PREPARED BY:**  
**CDG**  
**CONNELL DESIGN GROUP, LLC**  
 CONSULTING CIVIL ENGINEERS  
 1403 MACARTHUR COURT, SUITE 400, WESTPORT BEACH CA 92680  
 (949) 751-8887 OFFICE - (415) 751-8833 FAX  
 CDG#: 08-9009

**CONSULTING GROUP:**  
**SureSite Consulting Group, LLC**  
 3659 Green Road, Suite 317  
 Cleveland, Ohio 44122

NO.	DATE	DESCRIPTION	BY:

**SITE INFORMATION:**  
**LINDERO MIDDLE SCHOOL**  
**SV01895C**  
 5844 LARBOARD LANE  
 AGOURA HILLS, CA 91301  
**ISSUE DATE: 09/23/08**

SCALE: N.T.S.

**TELCO SINGLE LINE DIAGRAM**

**TELCO SERVICE BOX**  
 FROM (C) 21" SPLICE BOX  
 APPROX. 200' OF 4" PVC CONDUIT  
 APPROX. 162' OF 4" PVC CONDUIT  
 NEW TELCO CABINET WITH H&P'S  
 NEW 17"30" HAND HOLE  
 NEW 17"30" HAND HOLE OUTSIDE LEASE AREA

**SHEET TITLE:**  
**GENERAL NOTES, PANEL SCHEDULE, AND SINGLE LINE DIAGRAM**

**SHEET NUMBER:**

**E-2**



**KEY NOTES**

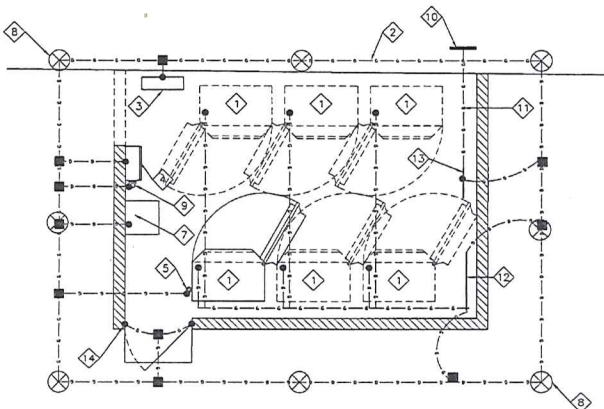
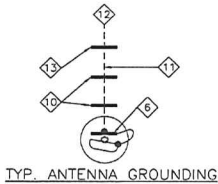
- 1 (N) T-MOBILE EQUIPMENT CABINETS (6 TOTAL)
- 2 (N) GROUND RING AWG #2 INSULATED COPPER GROUND WIRE BURIED 30" BELOW GRADE
- 3 (N) TELCO CABINET
- 4 (N) PPC CABINET
- 5 (N) GPS ANTENNA
- 6 ANTENNA GROUND BUS BAR @ EACH SECTOR
- 7 NEW STEP DOWN TRANSFORMER
- 8 GROUND ROD (B L-5)
- 9 EMERGENCY GENERATOR RECEPTACLE
- 10 ANTENNA GROUND BUS BAR AT BOTTOM OF (N) POLE
- 11 AWG 2 INSULATED COPPER GROUND WIRE TO ANTENNA GROUND BUS BAR AT LEASE AREA. (FOLLOW COAX ROUTING)
- 12 MASTER GROUND BUS @ EQUIPMENT (L-5)
- 13 ANTENNA GROUND BUS BAR IN LEASE AREA
- 14 GATE GROUNDING (D L-5)

**LEGEND**

- MECHANICAL CONNECTION
- EXOTHERMIC WELD (CADWELD/THERMOWELD) CONNECTION.
- ⊗ 5/8" x 10'-0" COPPER, OR COPPER CLAD STEEL GROUND ROD AT 10'-0" O.C. (MAX)
- G— #2 AWG INSULATED, COPPER WIRE (UNLESS OTHERWISE SPECIFIED).
- S.O.H. S.O.H. SECONDARY OVERHEAD

**GENERAL NOTES:**

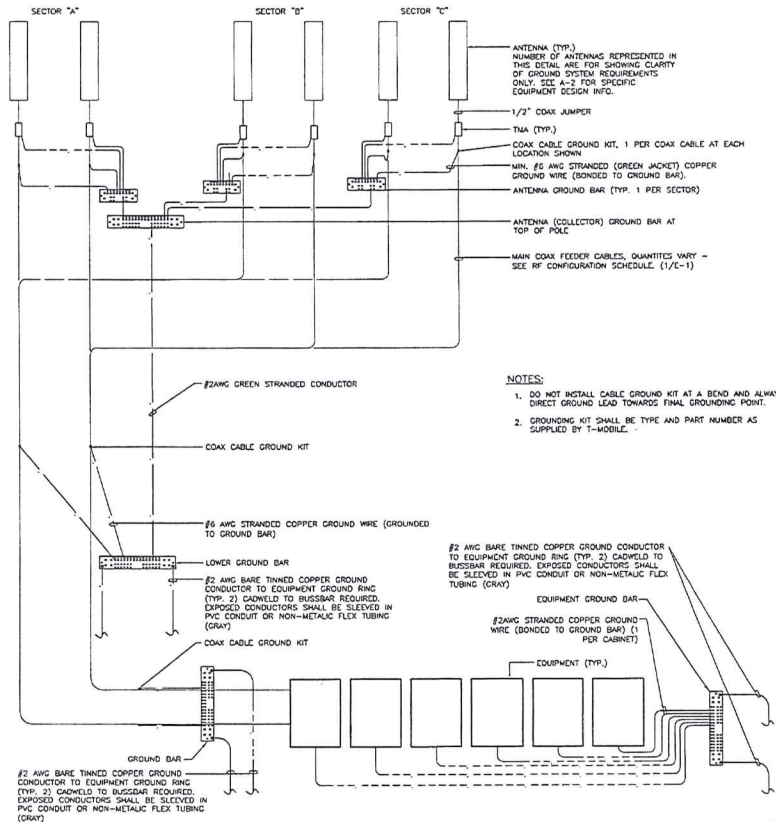
- PLAN DRAWINGS SHOWN HEREIN ARE DIAGRAMMATIC AND DOES NOT NECESSARILY DEPICT THE EXACT EQUIPMENT QUANTITIES, LOCATION, LAYOUT AND CONFIGURATION. REFER TO ARCHITECTURAL PLANS FOR EXACT EQUIPMENT LOCATION, LAYOUT AND CONFIGURATION.
- PLAN DRAWINGS SHOWN HEREIN DO SHOW THE NECESSARILY DEPICT ELECTRICAL REQUIREMENTS OF INDIVIDUAL EQUIPMENT AND DEVICES SUCH AS THE EQUIPMENT GROUNDING REQUIREMENTS, POWER REQUIREMENTS AND TELCO RACEWAY REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF POWER AND TELCO POINT OF CONNECTIONS, THE DISTANCE OF THE RUN AND THE SUGGESTED CONDUIT ROUTING. FIELD VERIFY EXISTING CONDITIONS SPECIFICALLY FOR CONDUIT ROUTING PRIOR TO BID.



**GROUNDING PLAN**

SCALE: 1  
3/8"=1'-0"

**GROUNDING NOTES**



**COAX CABLE GROUNDING SCHEMATIC DIAGRAM**

SCALE: 3  
N.T.S.

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4100 GUARDIAN  
SMB VALLEY, CA 90263

PLANS PREPARED BY:  
**EDG**  
CONNELL DESIGN GROUP, LLC  
ENGINEERING & DESIGN  
4451 MARGARET BL. COVING, SUITE 400, WESTPORT BEACH CA 92060  
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CDG#: 08-9009

CONSULTING GROUP:  
**SureSite Consulting Group, LLC**  
3659 Green Road, Suite 317  
Cleveland, Ohio 44122

NO.	DATE	DESCRIPTION	BY:

SITE INFORMATION:  
**LINDERO MIDDLE SCHOOL**  
SV01895C  
5844 LARBOARD LANE  
AGOURA HILLS, CA 91301  
ISSUE DATE: 09/23/08

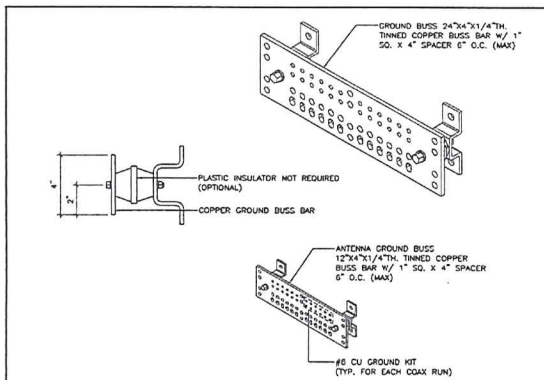
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SHEET TITLE:  
**GROUNDING PLAN, GROUNDING NOTES, AND COAX CABLE GROUNDING SCHEMATIC DIAGRAM**

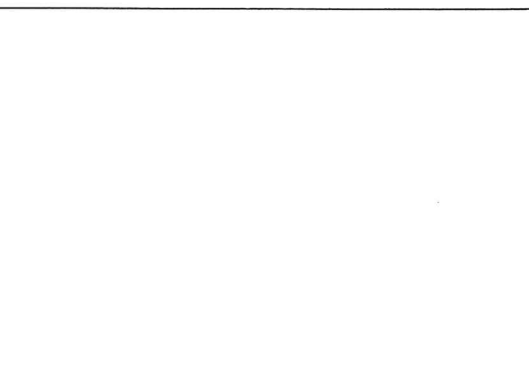
SHEET NUMBER:  
**E-3**



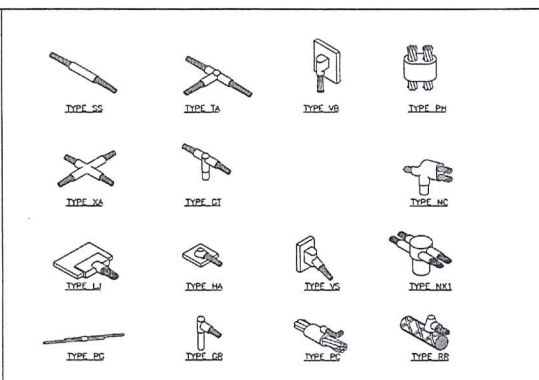
<p>NTI/EMERSON P/N# CAC-PED1 PPC (MHO) T-MOBILE SAP# NOT ISSUED UL LISTED # E299771</p>	<p>RIGHT SIDE VIEW REAR VIEW BOTTOM VIEW</p>	<p>NORTHERN TECHNOLOGIES, INC. LIBERTY LAKE, WA 99019 UL FILE# E299771</p> <ul style="list-style-type: none"> <li>• 200 OR 100 AMP 240 VOLTS, AC, SINGLE PHASE ALTERNATING CURRENT CIRCUIT ONLY.</li> <li>• SUITABLE FOR USE IN ACCORDANCE WITH ARTICLE 702 OF THE NATIONAL ELECTRIC CODE.</li> <li>• SERVICED NEUTRAL WHEN INSTALLED AS SHOWN ON WIRING DIAGRAM.</li> <li>• DO NOT PAD MOUNT TO CONCRETE WITHOUT OPTIONAL PAD MOUNTING BASE.</li> <li>• USE COPAL WIRE 50-75 C.</li> <li>• 200 AMP SERIES EQUIPPED WITH SQUARE D BREAKERS</li> <li>• REPLACE LOAD CENTER BREAKERS USE ONLY SQUARE D 400 TYPES OF THE SAME RATING.</li> <li>• WHEN RECEIVING BREAKERS TURN TO OFF POSITION, THEN TO ON POSITION.</li> <li>• WARNING: MAKE CONTINUITY CHECK WITH OHM METER TO VERIFY CORRECT PHASING AND GROUNDING CONNECTIONS.</li> </ul> <p>GENERATOR RECEPTACLE UTILITY BREAKER LOAD CENTER SQUARE D 400 TYPE 30 POSITION NEUTRAL-GROUND ON-GO BONDING JUMPER (CUSTOMER INSTALLED IF REQUIRED)</p> <p>GROUND ROD TO BE INSTALLED BY LOCAL CONTRACTOR WHEN REQUIRED</p>	<p>Stick Together™</p> <p>4100 GUARDIAN SUN VALLEY, CA 90263</p> <p>PLANS PREPARED BY: <b>EDG</b> CONNELL DESIGN GROUP, LLC CONSULTING CIVIL ENGINEERS 463 MACARTHUR COURT, SUITE 404 NEWPORT BEACH CA 92660 (949) 753-4937 OFFICE - (949) 733-4813 FAX CDG#: 08-9009</p> <p>CONSULTING GROUP: <b>SureSite Consulting Group, LLC</b> 3659 Green Road, Suite 317 Cleveland, Ohio 44122</p>
<p>PPC CABINET (PANEL 'BTS')</p>	<p>PPC CABINET (HOLE LAYOUT)</p>	<p>PPC CABINET (WIRING DIAGRAM)</p>	<p>NO. DATE DESCRIPTION BY:</p>
<p>NOT USED</p>	<p>NTI/EMERSON P/N# 0704002-03 45° ELBOW WITH MOUNTING BOX T-MOBILE SAP# NOT ISSUED</p>	<p>WIRING SAFE WITH TRAPEZOIDAL VENT EXISTING FRESH GRADE MATCH EXISTING FRESH GRADE COMPACTED BACK FILL (105 MIN.) UNDISTURBED NATIVE SOIL TELCO CONDUIT (SEE PLAN) ELECTRICAL POWER CONDUIT (SEE PLAN) COMPACTED SAND BEDDING (4" MIN.)</p>	<p>SITE INFORMATION: <b>LINDERO MIDDLE SCHOOL</b> <b>SV01895C</b> 5844 LARBOARD LANE AGOURA HILLS, CA 91301 ISSUE DATE: 09/23/08</p>
<p>NOT USED</p>	<p>RECEPTACLE REMOTE MOUNTING BOX</p>	<p>UTILITY CONDUIT TRENCH DETAIL</p>	<p>SEAL:</p>
<p>EMERGENCY GENERATOR RECEPTACLE TELCO BOX FOR AT&amp;T PPC CABINET (N) UNISTRUT P1000 (N) CONDUITS (S) SLAB</p>	<p>METERING COMPARTMENT CUSTOMER DISTRIBUTION SECTION PADLOCKING PROVISION 8" CONCRETE EQUIPMENT PAD EXIST. GRADE SERVICE GROUND ROD WITH INSPECTION WELL 1"Ø-1 #2</p>	<p>17.5"Ø CONCRETE PULL BOX WITH COVER FLUSH WITH GRADE NEW TELCO/ELECTRIC CONDUIT - 8 WIRES PER PLAN FROM PAGE 3/4" CRUSHED GRAVEL 3' Ø 11' (N) CONDUIT PER PLAN TO PFC ROCK BELOW BOX TO PROVIDE BRIDGE SUPPORT &amp; DRAINAGE</p>	<p>SHEET TITLE: <b>ELECTRICAL DETAILS</b></p> <p>SHEET NUMBER: <b>E-4</b></p>
<p>PPC, EGR &amp; TELCO CABINET DETAIL</p>	<p>METER PEDESTAL</p>	<p>PULL BOX DETAIL</p>	



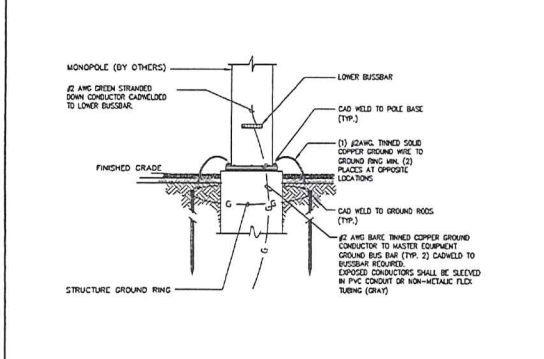
**GROUND BAR** SCALE: N.T.S. **1**



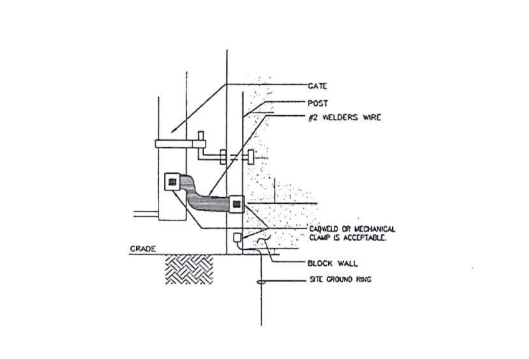
**NOT USED** SCALE: N.T.S. **2**



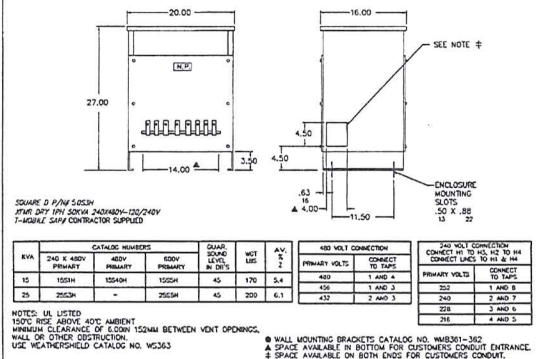
**CADWELDED CONNECTIONS** SCALE: N.T.S. **3**



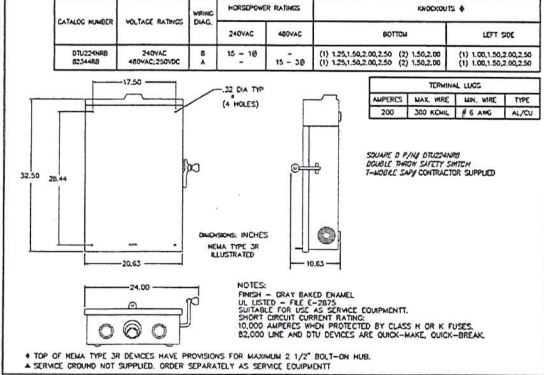
**POLE BASE GROUNDING** SCALE: N.T.S. **4**



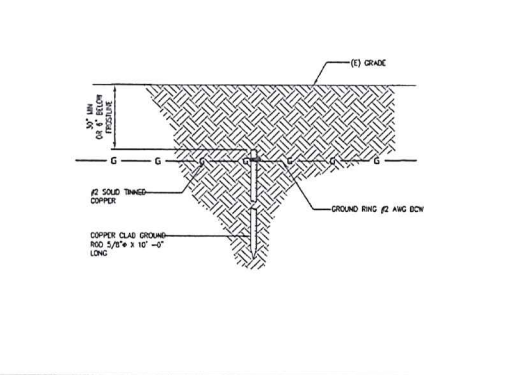
**ACCESS GATE GROUNDING** SCALE: N.T.S. **5**



**XFMR DRY 1PH 50KVA 240X480V-120/240V** SCALE: N.T.S. **6**



**DOUBLE THROW SAFETY SWITCH** SCALE: N.T.S. **7**



**GROUND ROD DETAILS** SCALE: N.T.S. **8**



**NOT USED** SCALE: N.T.S. **9**

4100 GUARDIAN  
SMI VALLEY, CA 90263

PLANS PREPARED BY:  
**CDG**  
CONNELL DESIGN GROUP, LLC  
CONSULTING CIVIL ENGINEERS  
9465 MACARTHUR BLVD, SUITE 400, NEWPORT BEACH, CA 92660  
(949) 753-8887 OFFICE - (949) 753-8833 FAX  
CDG#: 08-9009

CONSULTING GROUP:  
**SureSite Consulting Group, LLC**  
3659 Green Road, Suite 317  
Cleveland, Ohio 44122

NO.	DATE	DESCRIPTION	BY:

SITE INFORMATION:  
**LINDERO MIDDLE SCHOOL**  
**SV01895C**  
8844 LARBOARD LANE  
AGOURA HILLS, CA 91301  
ISSUE DATE: 09/23/08

SHEET TITLE:  
**ELECTRICAL DETAILS**

SHEET NUMBER:  
**E-5**



LOCATION

Microsoft® Virtual Earth™



EXISTING



PROPOSED



**SV01895C**  
Lindero Canyon Middle School

5844 Larboard Lane  
Agoura Hills, CA 91301

**VIEW 1**

**APPLICANT**

T-Mobile  
Barbara Saito  
4100 Guardian Street Suite 101  
Simi Valley, CA 93063

**CONTACT**

SureSite Consulting Group, LLC  
Courtney Schmidt  
3659 Green Road, Suite 317  
Cleveland, OH 44122  
p 310.645.5687



**BLUE WATER DESIGN**

1741 Tustin Ave. 19A  
Costa Mesa, CA 92627  
bluewater-design.net  
michelle@bluewater-design.net  
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LOCATION

Microsoft® Virtual Earth™



EXISTING



PROPOSED



**SV01895C**  
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**VIEW 2**

APPLICANT

T-Mobile  
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CONTACT

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LOCATION

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EXISTING



PROPOSED



# SV01895C

## Lindero Canyon Middle School

5844 Larboard Lane  
Agoura Hills, CA 91301

### VIEW 3

**APPLICANT**

T-Mobile  
Barbara Saito  
4100 Guardian Street Suite 101  
Simi Valley, CA 93063

**CONTACT**

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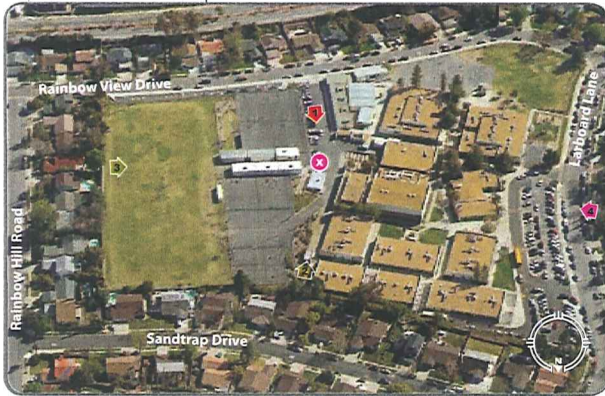
**BLUE WATER DESIGN**

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LOCATION

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PROPOSED



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Agoura Hills, CA 91301

**VIEW 4**

APPLICANT

T-Mobile  
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CONTACT

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CONDITIONAL USE PERMIT CASE NO. 07-CUP-007 (T-MOBILE)

