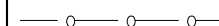
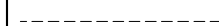
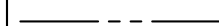
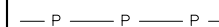
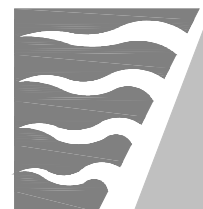


LINE TYPE LEGEND

	CHAIN LINK FENCE
	HIDDEN LINE
	PROPERTY LINE
	POWER CONDUIT



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

510 FALLON ST
OAKLAND, CA 94607

AIR QUALITY MONITORING STATION LANEY COLLEGE

AIR QUALITY MONITORING STATION

LANEY COLLEGE
510 FALLON ST
OAKLAND, CA 94607

ISSUE STATUS

DATE	DESCRIPTION	
07/18/13	CD 90%	C.C.
08/06/13	CLIENT REV	H.H.
08/23/13	CD 100%	J.S.
09/04/13	CLIENT REV	H.H.
09/13/13	CLIENT REV	J.S.
-	-	-

DRAWN BY: C. CODY

CHECKED BY: J. GRAY

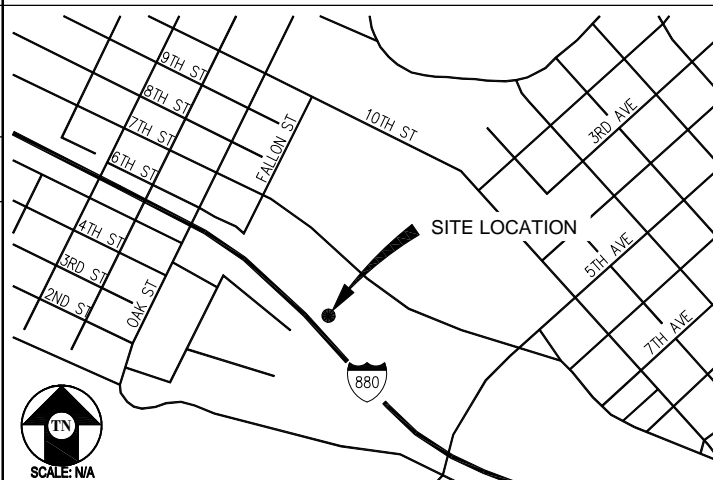
APPROVED BY: J. SPORE

DATE: 09/13/13

PROJECT DESCRIPTION

INSTALLING A (N) AIR QUALITY MONITORING STATION CONSISTING OF ADDING A (N) EQUIPMENT TRAILER, A (N) TESCO PEDESTAL, A (N) SERVICE DISCONNECT ON (N) H-FRAME & A (N) 6" HIGH PERMANENT CURVED-TOP, BLACK STEEL FENCE.

VICINITY MAP



CODE COMPLIANCE

ALL WORK & MATERIALS SHALL BE PERFORMED & INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 2010 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 CALIFORNIA MECHANICAL CODE
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA FIRE CODE
- LOCAL BUILDING CODES
- CITY/COUNTY ORDINANCES
- ANSI/EIA-TIA-222-G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 1134B.2.1, EXCEPTION 4

PROJECT INFORMATION

SITE NAME:	AIR QUALITY MONITORING STATION	SITE #:	LANEY COLLEGE
COUNTY:	ALAMEDA	JURISDICTION:	LANEY COLLEGE
APN:	018-0455-015-02	POWER:	PG&E
SITE ADDRESS:	510 FALLON ST OAKLAND, CA 94607	TELEPHONE:	AT&T
CURRENT ZONING:	OS (RCA)/S-4		
CONSTRUCTION TYPE:	V		
OCCUPANCY TYPE:	U, (UNMANNED COMMUNICATIONS FACILITY)		
PROPERTY OWNER:	PERALTA JUNIOR COLLEGE DISTRICT 333 E 8TH ST OAKLAND, CA 94606		
APPLICANT:	BAY AREA AIR QUALITY DISTRICT 939 ELLIS ST SAN FRANCISCO, CA 94109		
LEASING CONTACT:	ATTN: GLEN COLWELL (415) 740-7557		
ZONING CONTACT:	ATTN: LEAH HERNIKL (408) 799-1182		
CONSTRUCTION CONTACT:	ATTN: LEAH HERNIKL (408) 799-1182		
LATITUDE:	N 37° 47' 40.1" NAD 83		
LONGITUDE:	W 122° 15' 45.6" NAD 83		
AMSL:	±11'		

DRIVING DIRECTIONS

FROM: 939 ELLIS ST, SAN FRANCISCO, CA 94109
TO: 510 FALLON ST, OAKLAND, CA 94607

- HEAD WEST ON ELLIS ST TOWARD FRANKLIN ST 226 FT
- TAKE THE 1ST RIGHT ONTO FRANKLIN ST 338 FT
- TURN RIGHT ONTO O'FARRELL ST 453 FT
- TAKE THE 1ST RIGHT ONTO VAN NESS AVE 1.1 MI
- SLIGHT RIGHT TO MERGE ONTO US-101 S TOWARD INTERSTATE 80 E/OAKLAND/SAN JOSE 0.6 MI
- TAKE THE INTERSTATE 80 EXIT ON THE LEFT TOWARD BAY BRIDGE/OAKLAND 0.3 MI
- MERGE ONTO I-80 E 7.1 MI
- TAKE THE INTERSTATE 580 E EXIT TOWARD CALIFORNIA 24/HAYWARD/STOCKTON 0.2 MI
- CONTINUE STRAIGHT 0.6 MI
- CONTINUE STRAIGHT ONTO I-580 E 0.9 MI
- TAKE THE EXIT TOWARD DOWNTOWN OAKLAND 0.6 MI
- MERGE ONTO I-980 W 1.5 MI
- TAKE THE JACKSON ST EXIT 0.5 MI
- MERGE ONTO 5TH ST 0.2 MI
- TURN LEFT ONTO OAK ST 0.1 MI
- TURN RIGHT ONTO 7TH ST 387 FT
- TAKE THE 1ST RIGHT ONTO FALLON ST 223 FT

END AT: 510 FALLON ST, OAKLAND, CA 94607

ESTIMATED TIME: 23 MINUTES ESTIMATED DISTANCE: 14.2 MILES

SHEET INDEX

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	-
A-1	OVERALL SITE PLAN & SITE PLAN	-
A-2	UTILITY PLAN & EQUIPMENT PLAN	-
A-3	ELEVATIONS	-
A-4	DETAILS	-
A-5	DETAILS	-
E-1	ELECTRICAL PLAN & GROUNDING PLAN	-
E-2	PG&E POWER DESIGN	-

APPROVAL

AQMD
LEASING
ZONING
CONSTRUCTION

Streamline Engineering
and Design, Inc.

8445 Sierra College Blvd, Suite E Granite Bay, CA 95746
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS ST
SAN FRANCISCO, CA 94109

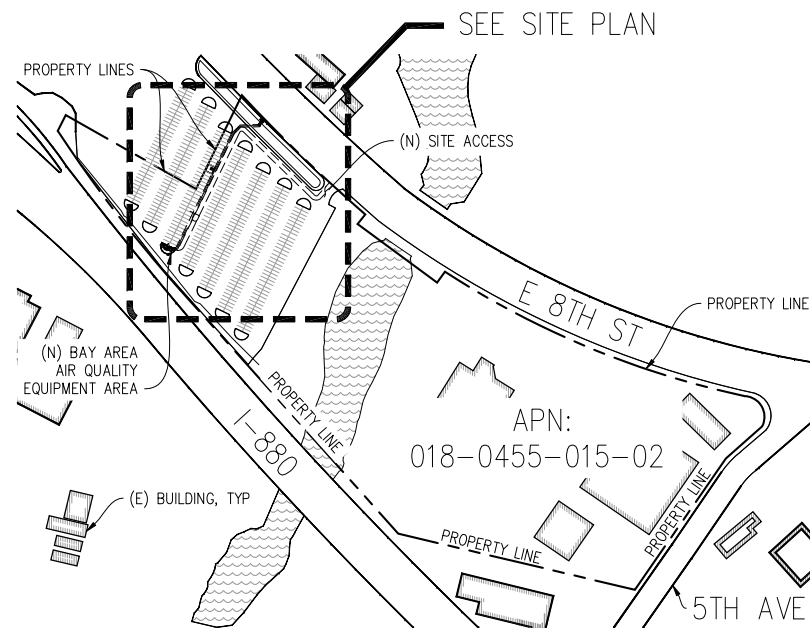
SHEET TITLE:
TITLE
SHEET NUMBER:
T-1

PROJECT GENERAL NOTES

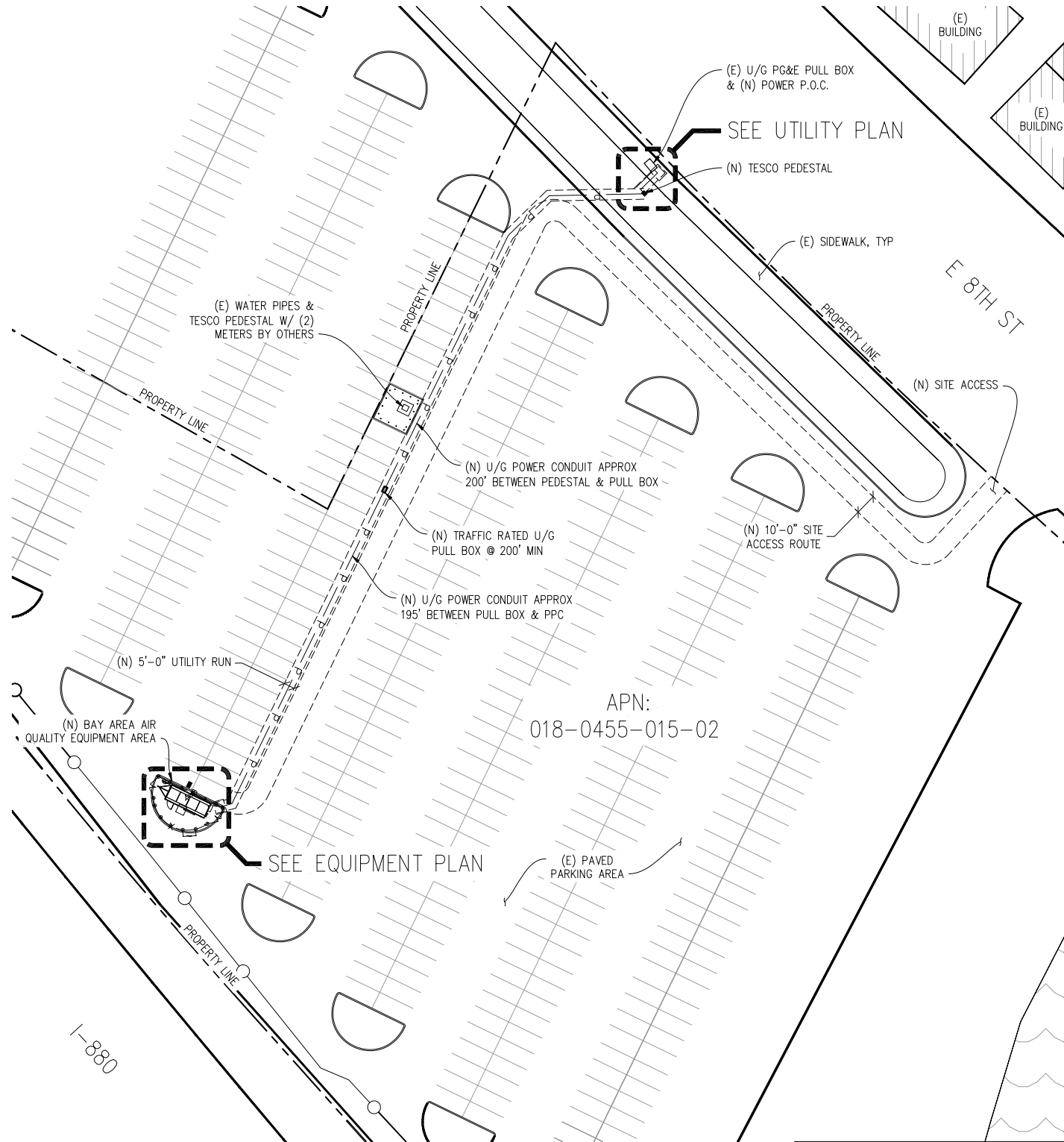
1. THIS FACILITY IS AN UNOCCUPIED AIR QUALITY MEASUREMENT FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.
3. THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR PERMIT FEES, AND TO OBTAIN SAID PERMITS AND TO COORDINATE INSPECTIONS.
6. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
7. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
8. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
9. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
10. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
11. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
15. THE CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.
17. WHERE APPLICABLE, CONTRACTOR SHALL PROVIDE SEPARATE PLANS, SPECIFICATIONS, FEES AND PERMITS FOR ANY REVISION TO ANY FIRE SPRINKLER AND/OR ALARM SYSTEM ON THE PREMISES AS MAY BE NEEDED TO COMPLETE THE WORK DEPICTED HEREIN, USING A C-10 LICENSED SUBCONTRACTOR FOR ALL SUCH WORK.

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

CALL
"CALL BEFORE YOU DIG"
811
NATIONWIDE UNDERGROUND SERVICE ALERT



OVERALL SITE PLAN
1"=200'-0"
0 100' 200' 400' 600' 1,000'



SITE PLAN
1"=30'-0"
0 15' 30' 60' 90' 150'

NOTICE
CONTRACTOR MUST PREPARE & SUBMIT SCALED DRAWINGS TO DEPICT THE PROPOSED ROUTE OF THE BORE & PROVIDE A CROSS-SECTION DEPICTING THE DIMENSIONS OF HTBE CONDUIT & TYPE OF WIRE PROPOSED.

AIR QUALITY MONITORING STATION

LANEY COLLEGE
510 FALLON ST
OAKLAND, CA 94607

ISSUE STATUS

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	08/06/13	CLIENT REV	H.H.
	08/23/13	CD 100%	J.S.
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DRAWN BY: C. CODY
CHECKED BY: J. GRAY
APPROVED BY: J. SPORE
DATE: 09/13/13

Streamline Engineering
and Design, Inc.

8445 Sierra College Blvd, Suite E Granite Bay, CA 95746
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

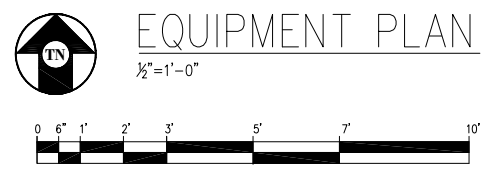
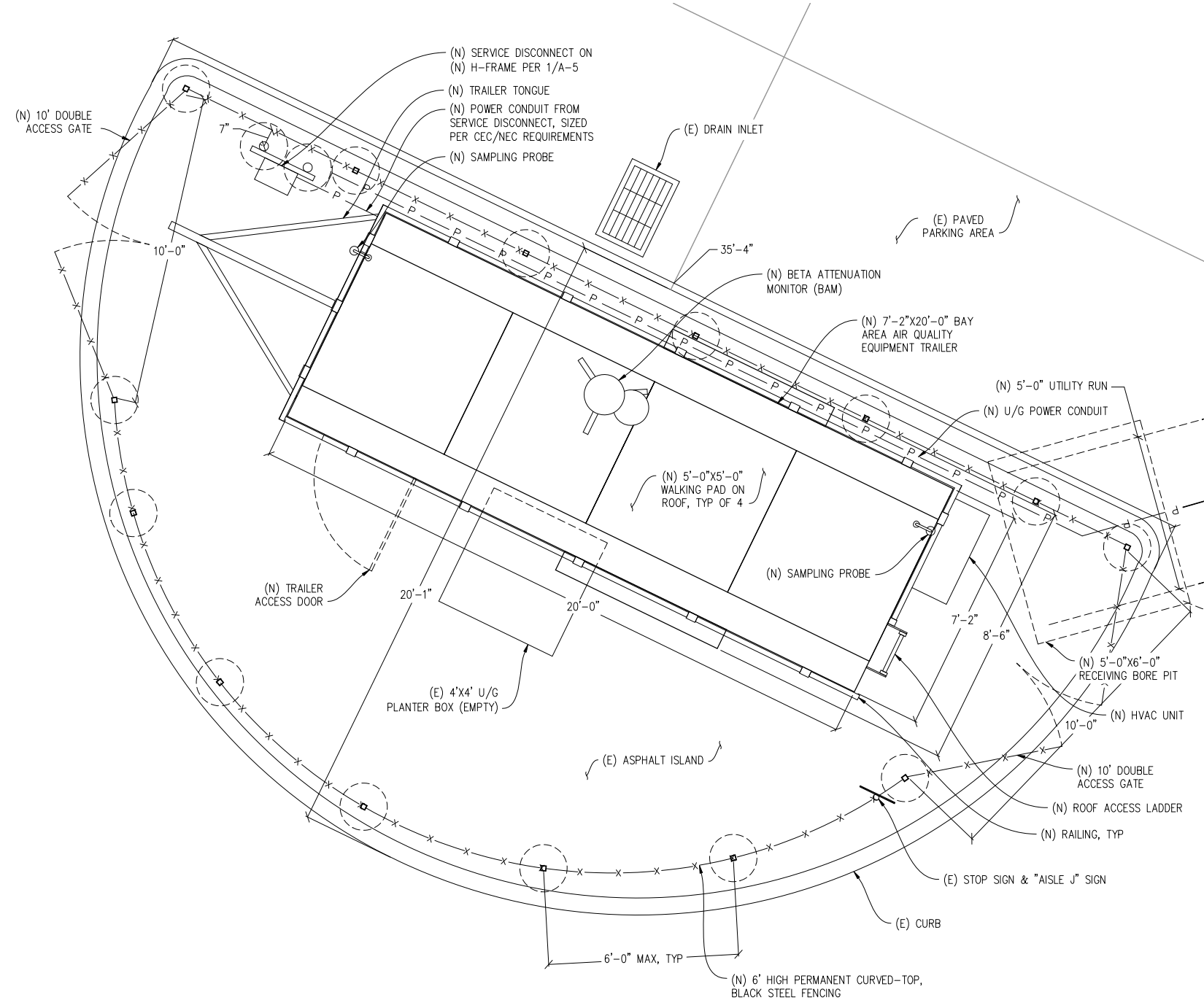
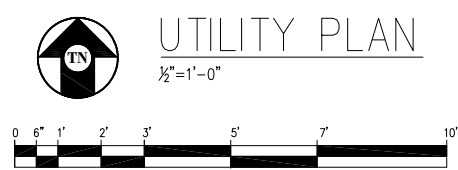
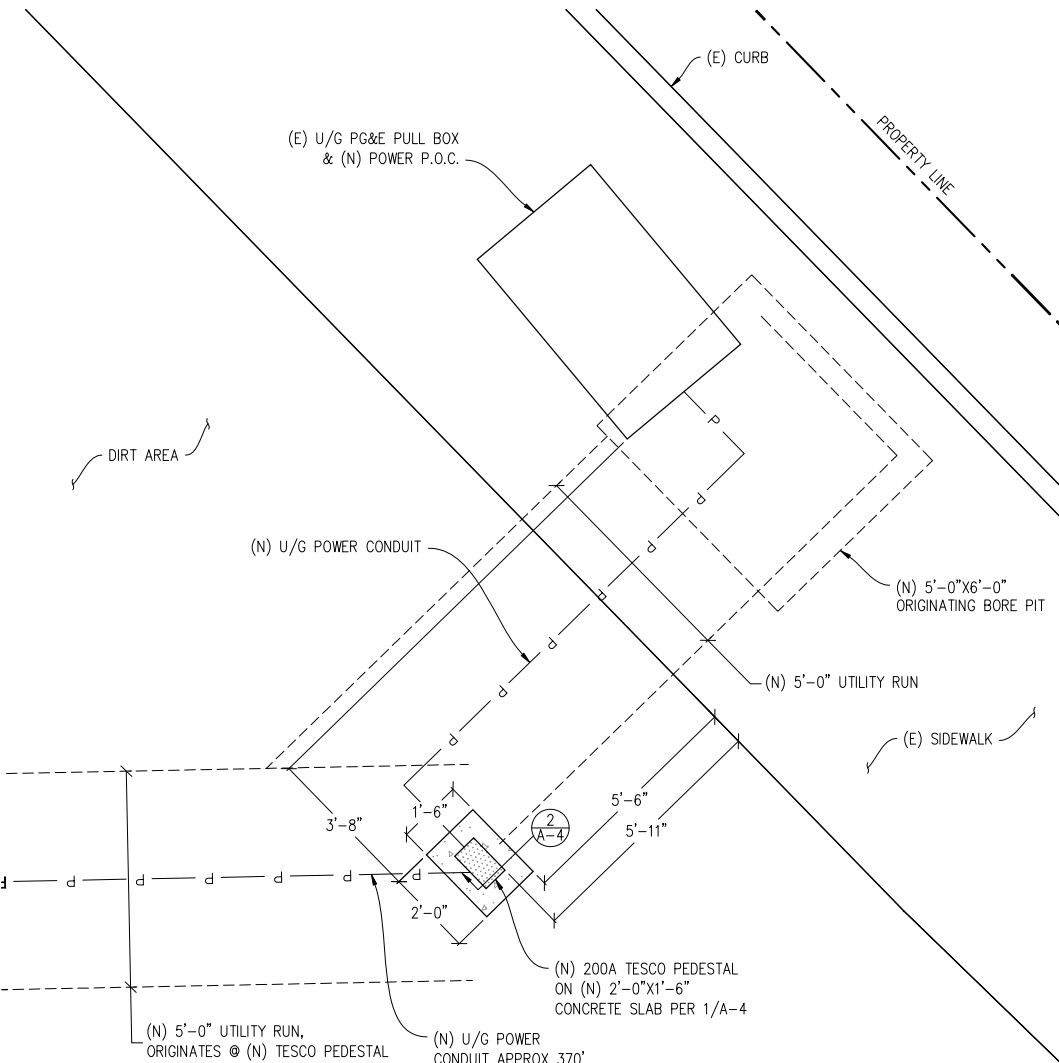
999 ELLIS ST
SAN FRANCISCO, CA 94109

SHEET TITLE:
OVERALL SITE PLAN & SITE PLAN

SHEET NUMBER:
A-1

CONSTRUCTION NOTES

- EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
- THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2010 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2010 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
- ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
- IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
- ALL WEATHER PROOFING, INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
- ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.



AIR QUALITY MONITORING STATION
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	-	-	-

DRAWN BY: C. CODY
CHECKED BY: J. GRAY
APPROVED BY: J. SPORE
DATE: 09/13/13

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Contact: Kevin Sorensen Phone: 916-660-1930
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SHEET TITLE:
UTILITY PLAN & EQUIPMENT PLAN
SHEET NUMBER:
A-2

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

CALL "CALL BEFORE YOU DIG" B1
NATIONWIDE UNDERGROUND SERVICE ALERT

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BAY AREA AIR QUALITY
MANAGEMENT DISTRICT

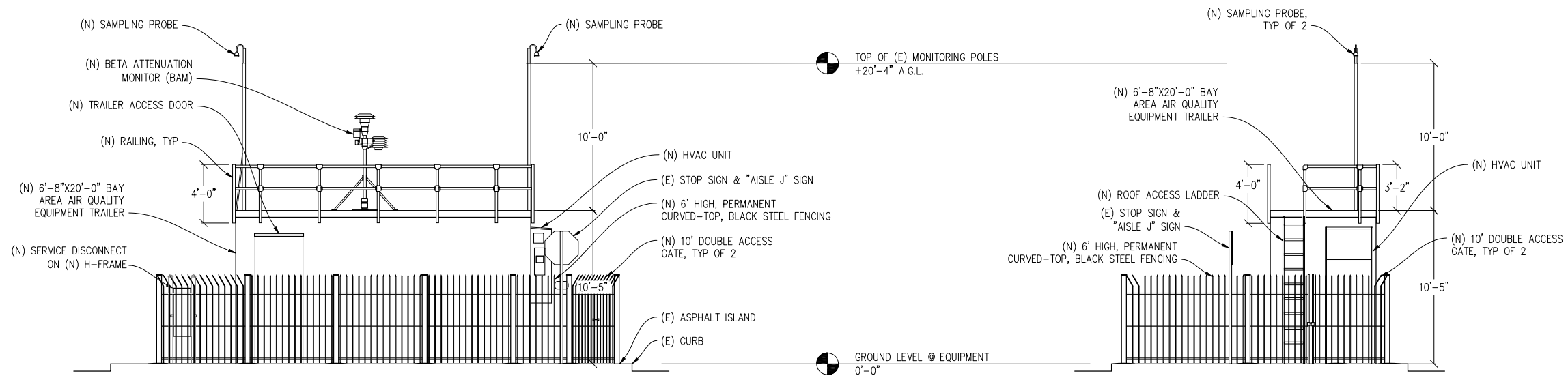
939 ELLIS ST
SAN FRANCISCO, CA 94109

SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

A-3



SOUTH ELEVATION
1/4"=1'-0"

EAST ELEVATION
1/4"=1'-0"

CONCRETE NOTES

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-05. CONCRETE MIX DESIGN SHALL BE REVIEWED BY AN INDEPENDENT TESTING LABORATORY AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
- CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
- ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
- CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
- ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
- MINIMUM LAP SPICE SHALL BE 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.
- CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED NON EXPANSIVE SOIL AT DEPTH SHOWN. WHERE OTHER CONDITIONS ARE ENCOUNTERED DURING EXCAVATION THE ENGINEER SHALL BE NOTIFIED AND REMEDIAL MEASURES PRESCRIBED PRIOR TO PROCEEDING WITH WORK.
- BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL. REMOVE ALL DEBRIS BEFORE PLACING ANY CONCRETE.
- ALL BOLTS & THREADED ROD SHALL BE ASTM A307 MINIMUM UNLESS OTHERWISE NOTED, NEW, & WITHOUT SIGNIFICANT RUST.
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
- REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
- ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

EXPANSION & EPOXY ANCHORS

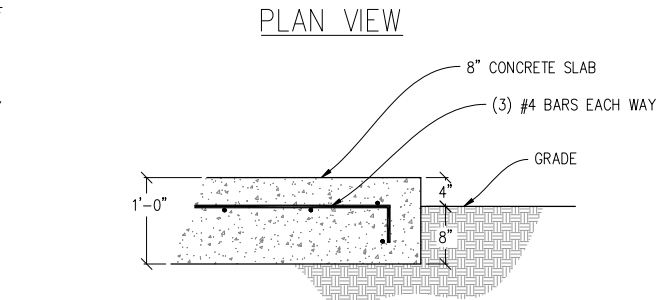
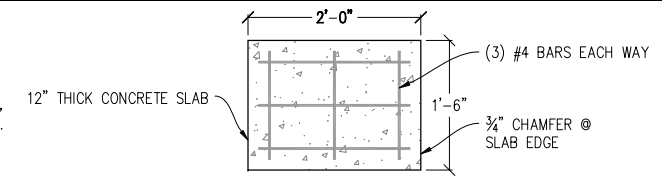
- EXPANSION AND EPOXY ANCHORS SHALL BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE 2010 CALIFORNIA BUILDING CODE (CBC).
- ALL ANCHORS PROVIDED SHALL BE INCLUDED IN EVALUATION REPORTS OF THE INTERNATIONAL CODE COUNCIL (ICC), AND SHALL BE EVALUATED FOR 2006 IBC MINIMUM REQUIREMENTS. IN THE ICC REPORT
- CONCRETE EXPANSION ANCHORS SHALL BE KWIK BOLT TZ BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-1917 OR APPROVED EQUIVALENT.
- CMU EXPANSION ANCHORS SHALL BE KWIK BOLT 3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-1385 OR APPROVED EQUIVALENT. ANCHORS SHALL BE INSTALLED A MINIMUM OF 1 1/2" FROM ANY VERTICAL MORTAR JOINT TYPICAL. ANCHORS TO BE SPACED 8 INCHES ON CENTER MINIMUM AND LIMITED TO ONE ANCHOR PER CELL.
- CONCRETE & GROUT FILLED CMU ADHESIVE EPOXY ANCHORS SHALL BE HIT RE-500SD BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-2322 OR APPROVED EQUIVALENT.
- INSTALL EXPANSION AND EPOXY ANCHORS WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE 2010 CBC, CHAPTER 17, AND ALL REQUIREMENTS OF THE MANUFACTURER, THE MANUFACTURER'S ICC APPROVAL AND THESE DRAWINGS.
- EXPANSION ANCHORS SHALL BE 304/316 STAINLESS STEEL U.O.N.. EPOXY ANCHOR THREADED ROD SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL U.O.N.
- LOCATE AND AVOID REINFORCEMENT AND OTHER EMBEDDED ITEMS WHEN INSTALLING ANCHORS. TYPICAL. SEE CONCRETE CORE DRILLING NOTES FOR ADDITIONAL INFORMATION.
- THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE AND DIMENSIONS, CONCRETE MEMBER THICKNESS, ANCHOR SPACING, EDGE DISTANCES, TIGHTENING TORQUE, HOLE DIAMETER, DEPTH AND CLEANLINESS, ANCHOR EMBEDMENT AND ADHERENCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE NOTE 10 BELOW FOR FREQUENCY OF INSPECTIONS.
- 50% OF ALL ANCHORS, INCLUDING ALTERNATE BOLTS IN A GROUP OF ANCHORS, SHALL BE INSPECTED PER NOTE 9 ABOVE AND TORQUE TESTED PER THE ICC REPORT TEST VALUES.

STRUCTURAL STEEL NOTES

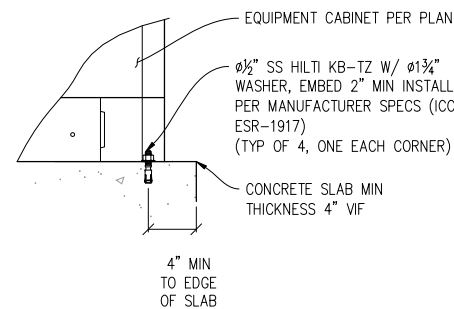
- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2010 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC & AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.

CONCRETE CORE/DRILLING NOTES

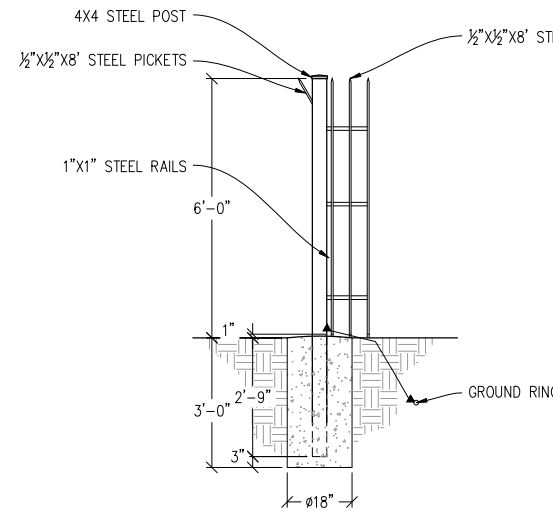
- WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED OR POST-TENSIONED REINFORCED CONCRETE (MILD REINFORCED), USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. WHEN INSTALLING THEM INTO (E) PRE-STRESSED OR POST-TENSIONED CONCRETE LOCATE THE PRE-STRESSED OR POST-TENSIONED TENDONS BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, AT POINT OF PENETRATION. PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- WHEN CORING EXISTING REINFORCED CONCRETE OF ANY CONSTRUCTION TYPE (PRE-STRESSED, POST-TENSIONED OR MILD REINFORCED), LOCATE THE EXISTING REINFORCING BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, PRIOR TO CORING. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING ANY REINFORCING DURING CORING. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE CORE. THE MAXIMUM SIZE OF ANY CORE IS TO BE 6" DIAMETER AND THE MINIMUM SPACING BETWEEN CORES IS TO BE TWICE THE CORE DIAMETER (I.E. 12" SPACING FOR A 6" DIAMETER CORE).
- INSPECTOR IS TO BE PRESENT DURING ALL CORE DRILLING OPERATIONS TO VERIFY THAT NO REINFORCING CABLES, TENDONS, OR REBAR HAVE BEEN CUT. (SEE NOTE 5 BELOW)
- THE INSPECTOR SHALL SUBMIT A WRITTEN REPORT TO THE OWNER.
- THE INSPECTIONS INDICATED IN NOTES 3 AND 4 ABOVE ARE NOT REQUIRED FOR A CONCRETE FILL OVER METAL DECK APPLICATION WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.



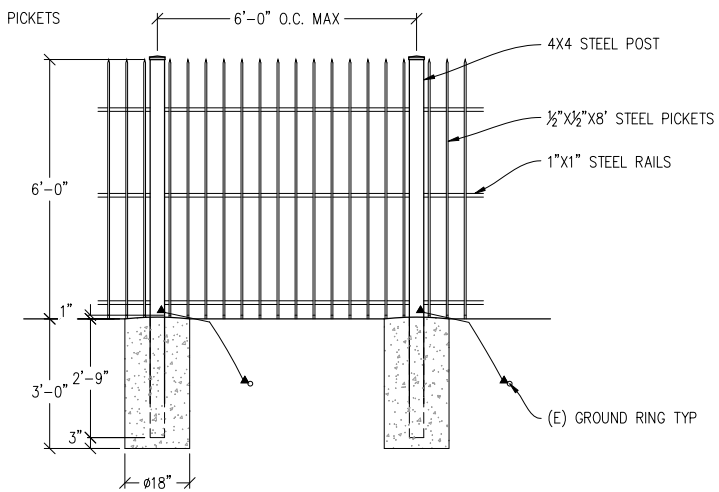
1 SLAB @ SERVICE PEDESTAL DETAIL
1/2" = 1'-0"



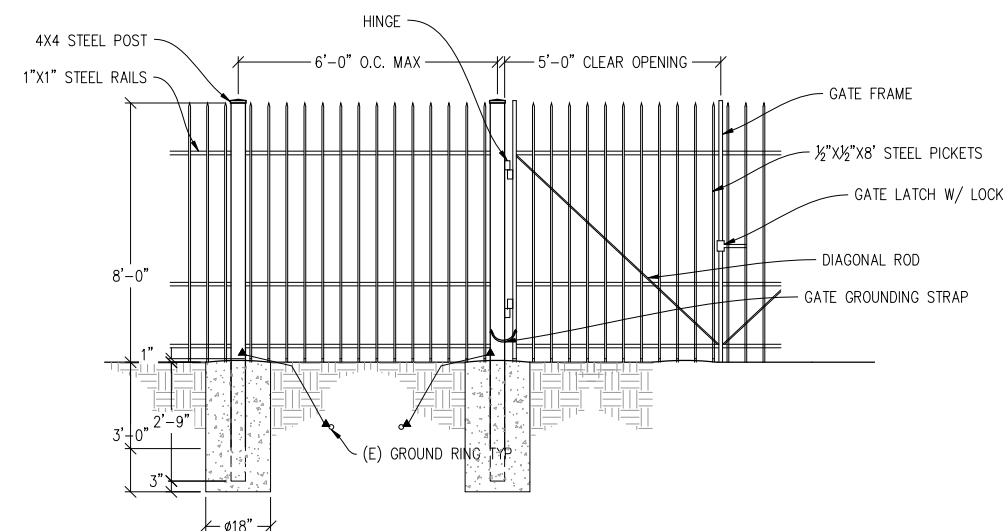
2 CABINET TO CONC
1/2" = 1'-0"



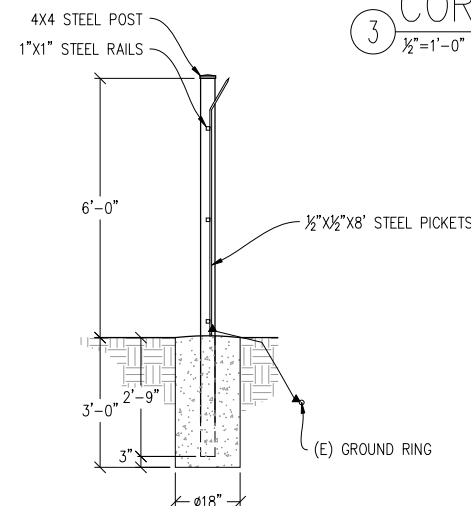
3 CORNER POST DETAIL
1/2" = 1'-0"



4 LINE POST DETAIL
1/2" = 1'-0"



5 STEEL FENCE GATE DETAIL
1/2" = 1'-0"



6 SECTION DETAIL
1/2" = 1'-0"

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	08/23/13	CD 100%	J.S.
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	09/13/13	CLIENT REV	J.S.
	-	-	-

DRAWN BY: C. CODY

CHECKED BY: J. GRAY

APPROVED BY: J. SPORE

DATE: 09/13/13

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SHEET TITLE:

DETAILS

SHEET NUMBER:

A-4

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.
CALL
"CALL BEFORE YOU DIG"
811
NATIONWIDE UNDERGROUND SERVICE ALERT

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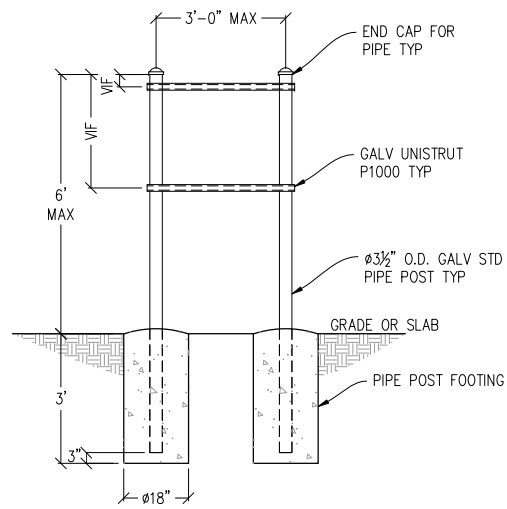
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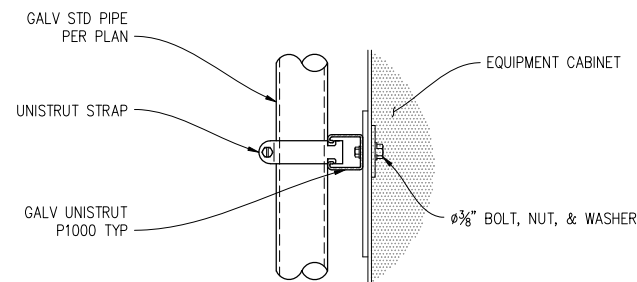
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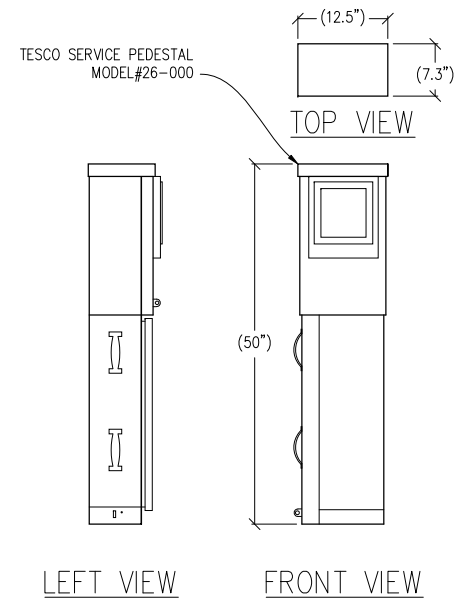
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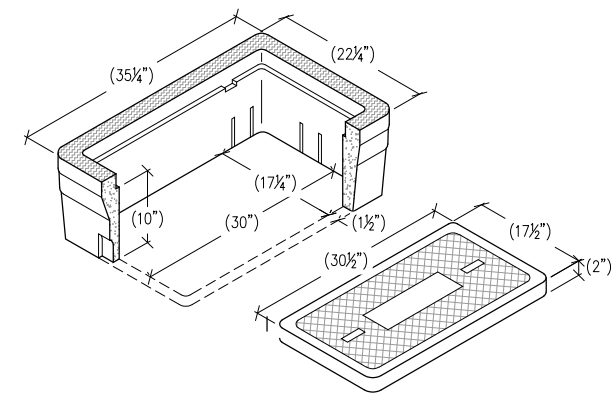
1 H-FRAME DETAIL
½"=1'-0"



3 EQUIPMENT MOUNTING DETAIL
3"=1'-0"



4 SERVICE PEDESTAL DETAIL
1"=1'-0"



5 P36 SPLICE BOX
1"=1'-0"

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DETAILS

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A-5

UTILITY SERVICE NOTE

CONTRACTOR SHALL COORDINATE NEW ELECTRICAL SERVICE DROP TO SITE COMPLETE FROM SERVICE APPLICATIONS TO TURN ON OF (N) SERVICES, INCLUDING PROVISION & INSTALLATION OF ALL CUSTOMER-PROVIDED MATERIALS & INSTALLATIONS, INSPECTIONS BY UTILITIES AND/OR JURISDICTIONS, ETC. NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES WITH THESE PLANS AS SOON AS POSSIBLE.

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE CEC AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
- ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- ELECTRICAL WIRING SHALL BE COPPER #12 MIN WITH TYPE XHHW, THWN, OR THHN INSULATION UNLESS OTHERWISE SPECIFIED.
- ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT OR DIRECTIONAL BORE HDPE CONDUIT UNLESS OTHERWISE NOTED.
- A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.
- WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQ'TS INCLUDING SERVICE VOLTAGE, METER LOCATION, MAIN DISCONNECTING MEANS, AND AIC BRACING REQ'T, AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.

GROUNTING NOTES

- GROUNTING SHALL COMPLY WITH NEC ART. 250.
- USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNTING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNTING AS INDICATED ON THE DRAWING.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNTING CONNECTIONS BELOW GRADE.
- EXPOSED GROUNTING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
- CONNECTIONS TO EQUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
- APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
- ROUTE GROUNTING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNTING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
- THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING FOUR OPTIONS:
 - CONNECT TO EXISTING GROUNTING SYSTEMS
 - CONNECT TO BUILDING STEEL COLUMNS
 - INSTALL A NEW GROUNTING SYSTEM

UPON COMPLETION OF THE GROUNTING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED 3RD PARTY TO CONDUCT A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL TO EITHER THE OWNER OR CONSTRUCTION MANAGER.

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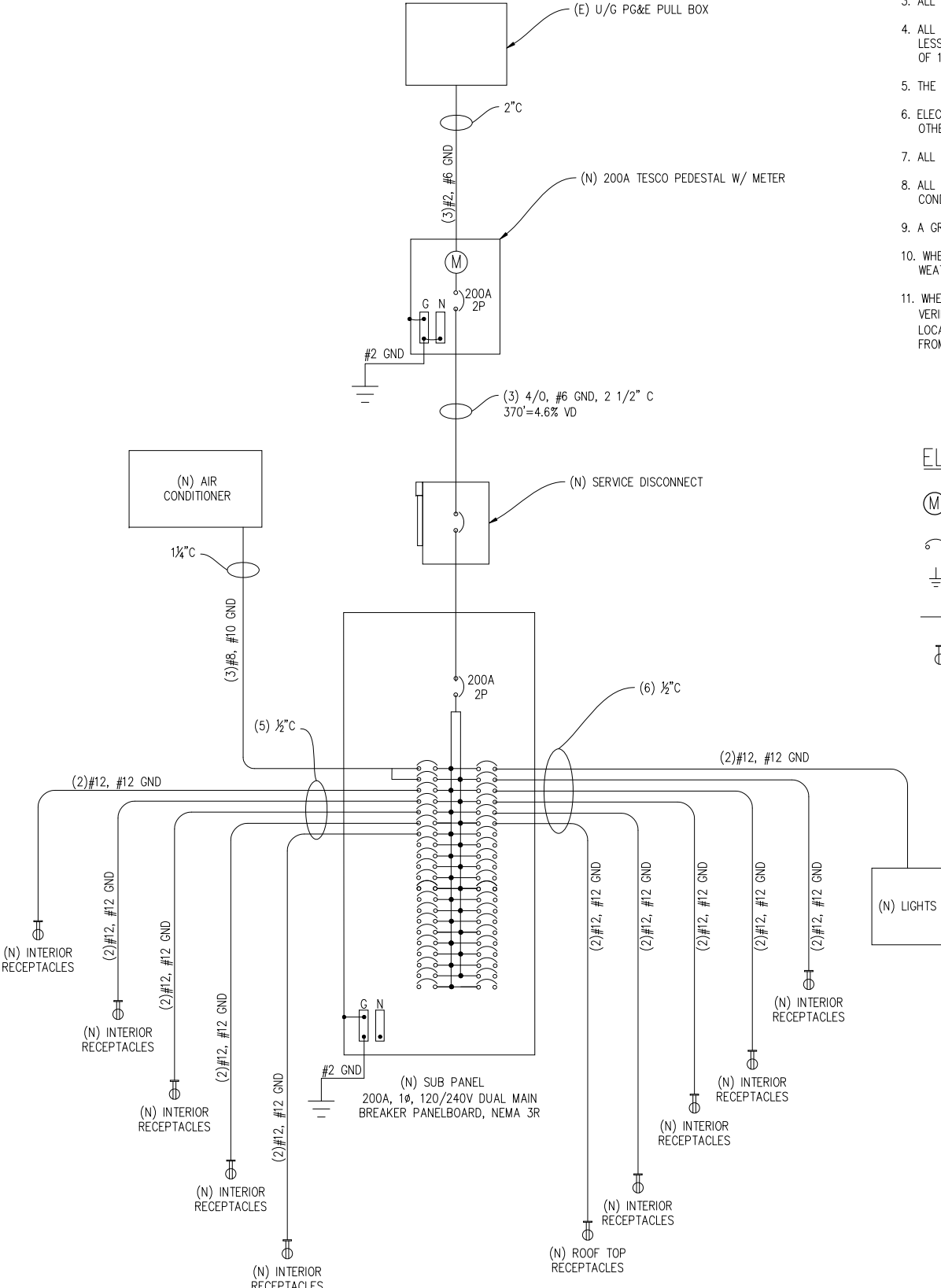
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APPROVED BY: J. SPORE
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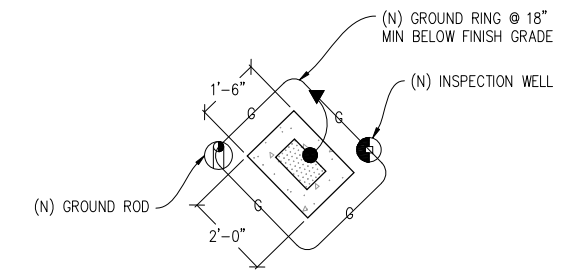
SINGLE LINE DIAGRAM

ELECTRIC LEGEND

- (M) METER
- (C) CIRCUIT BREAKER
- (SG) SERVICE GROUND
- (WC) WIRED CONNECTION
- (GFI) GFI OUTLET, WATERPROOF

GROUNTING LEGEND

- (●) MECHANICAL CONNECTION
- (▲) EXOTHERMIC CADWELD
- (⊕) TYP. CADWELD INSPECTION WELL
- (G) TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
- (⊖) TYP 5/8" DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN BELOW FINISH GRADE



GROUNTING PLAN
1/2"=1'-0"

PANEL SCHEDULE

NAMEPLATE : PANEL A		SC LEVEL : 10,000		VOLTS: 120V/240V, 1Ø				
LOCATION : INSIDE		MOUNTING : WALL		BUS AMPS: 200A				
ØA	ØB	LOAD DESCRIPTION	BKR AMP/POLE	CIRCUIT NO	BKR AMP/POLE	LOAD DESCRIPTION	ØA	ØB
2100		(N) HVAC #1	35/2	1 2	15/1	LIGHTS	450	
	2100	(N) INTERIOR RECEPTACLES	20/1	3 4	20/1	(N) INTERIOR RECEPTACLES	180	180
180		(N) INTERIOR RECEPTACLES	20/1	5 6	20/1	(N) INTERIOR RECEPTACLES	180	
	180	(N) INTERIOR RECEPTACLES	20/1	7 8	20/1	(N) INTERIOR RECEPTACLES	180	180
180		(N) INTERIOR RECEPTACLES	20/1	9 10	20/1	(N) INTERIOR RECEPTACLES	180	
	180	(N) INTERIOR RECEPTACLES	20/1	11 12	20/1	(N) ROOF TOP RECEPTACLES	180	180
180		(N) INTERIOR RECEPTACLES	20/1	13 14	-	SPARE		
		SPARE	-	15 16	-	" "		
		" "	-	17 18	-	" "		
		" "	-	19 20	-	" "		
		" "	-	21 22	-	" "		
		" "	-	23 24	-	" "		
		" "	-	25 26	-	" "		
		" "	-	27 28	-	" "		
		" "	-	29 30	-	" "		
		" "	-	31 32	-	" "		
		" "	-	33 34	-	" "		
		" "	-	35 36	-	" "		
		" "	-	37 38	-	" "		
		" "	-	39 40	-	" "		
		" "	-	41 42	-	" "		
2640	2460	PHASE TOTALS				PHASE TOTALS	810	540
TOTAL VA =	6450	TOTAL AMPS =	27					

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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SHEET TITLE:
ELECTRICAL PLAN & GROUNTING PLAN
SHEET NUMBER:
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PG&E
POWER DESIGN
SHEET NUMBER:
E-2

