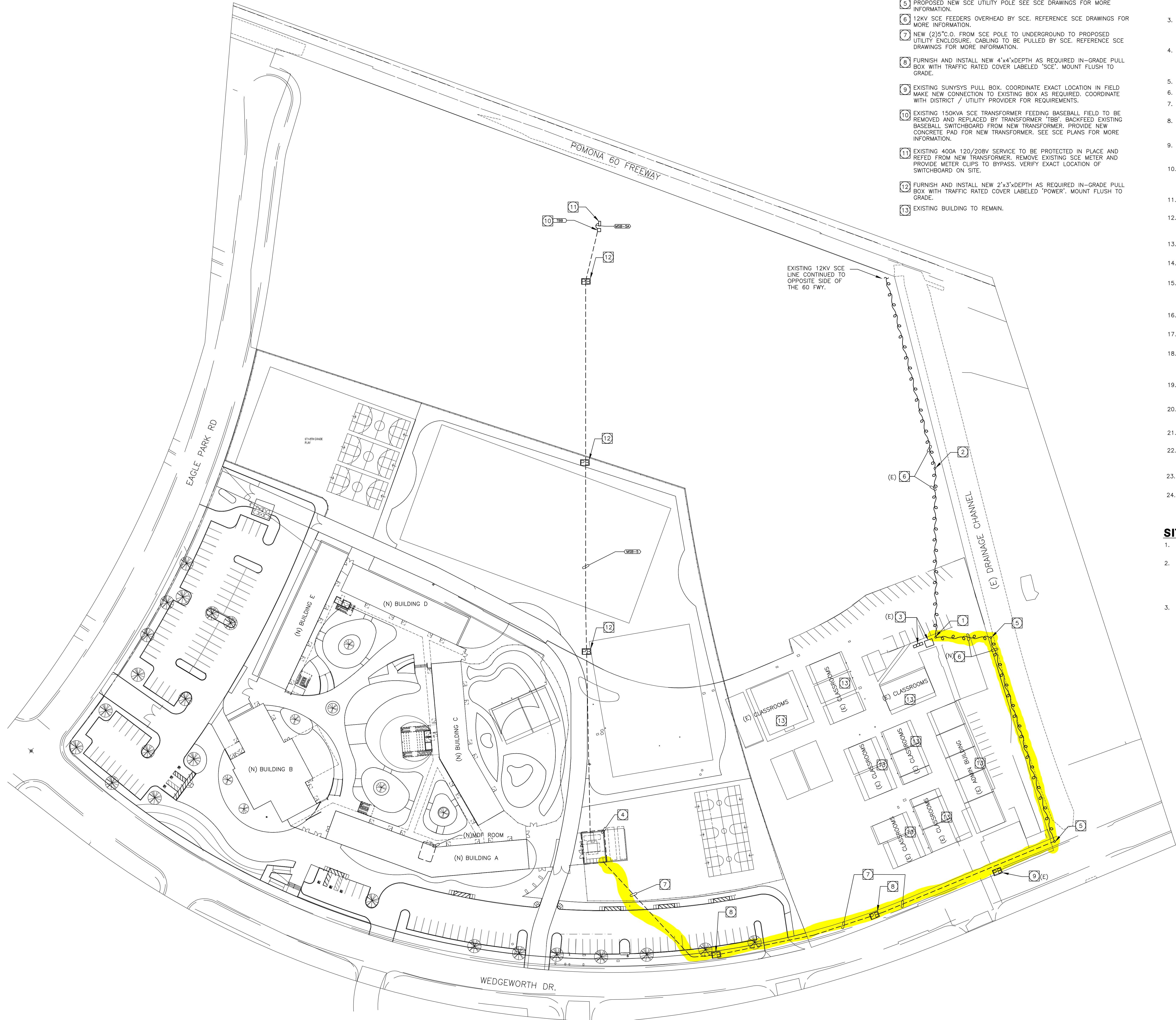


Appendices

Appendix K Utilities Plan

Appendices

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PLAN NOTES:

- EXISTING SCE UTILITY POLE TO BE MODIFIED TO EXTEND OVERHEAD LINES TO NEW CAMPUS. REFERENCE SCE DRAWINGS FOR MORE INFORMATION.
- EXISTING SCE UTILITY POLE TO BE PROTECTED IN PLACE.
- EXISTING SCE TRANSFORMER AND EXISTING SCHOOL SWITCHBOARD TO BE PROTECTED IN PLACE.
- NEW SCE UTILITY ENCLOSURE AND MAIN SWITCHBOARD 'MSB' FOR NEW CAMPUS SERVICE. REFERENCE E1.00 FOR MORE INFORMATION.
- PROPOSED NEW SCE UTILITY POLE SEE SCE DRAWINGS FOR MORE INFORMATION.
- 12KV SCE FEEDERS OVERHEAD BY SCE. REFERENCE SCE DRAWINGS FOR MORE INFORMATION.
- NEW (2)5'C.O. FROM SCE POLE TO UNDERGROUND TO PROPOSED UTILITY ENCLOSURE. CABLING TO BE PULLED BY SCE. REFERENCE SCE DRAWINGS FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW 4'x4'xDEPTH AS REQUIRED IN-GRADE PULL BOX WITH TRAFFIC RATED COVER LABELED 'SCE'. MOUNT FLUSH TO GRADE.
- EXISTING SUNY'S PULL BOX. COORDINATE EXACT LOCATION IN FIELD MAKE NEW CONNECTION TO EXISTING BOX AS REQUIRED. COORDINATE WITH DISTRICT / UTILITY PROVIDER FOR REQUIREMENTS.
- EXISTING 150KVA SCE TRANSFORMER FEEDING BASEBALL FIELD TO BE REMOVED AND REPLACED BY TRANSFORMER 'TBB'. BACKFEED EXISTING BASEBALL SWITCHBOARD FROM NEW TRANSFORMER. PROVIDE NEW CONCRETE PAD FOR NEW TRANSFORMER. SEE SCE PLANS FOR MORE INFORMATION.
- EXISTING 400A 120/208V SERVICE TO BE PROTECTED IN PLACE AND REFEED FROM NEW TRANSFORMER. REMOVE EXISTING SCE METER AND PROVIDE METER CLIPS TO BYPASS. VERIFY EXACT LOCATION OF SWITCHBOARD ON SITE.
- FURNISH AND INSTALL NEW 2'x3'xDEPTH AS REQUIRED IN-GRADE PULL BOX WITH TRAFFIC RATED COVER LABELED 'POWER'. MOUNT FLUSH TO GRADE.
- EXISTING BUILDING TO REMAIN.

SITE UTILITY PLAN CONSTRUCTION NOTES:

- THESE NOTES ESTABLISH MINIMUM QUALITY LEVELS AND COORDINATION REQUIREMENTS. RESPECTIVE UTILITY COMPANY PLANS AND REQUIREMENTS TAKE PRECEDENCE OVER THESE NOTES. WITH REGARD TO RESPECTIVE UTILITY COMPANY CONDUIT AND UNDERGROUND STRUCTURE SYSTEMS.
- CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
 - COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
 - VAULTS, MAINTENANCE HOLES (MH's), FORMERLY KNOWN AS MANHOLES, AND CONDUITS SHALL MAINTAIN A MINIMUM COVER OF 24" BELOW FINAL SURFACE AT ALL CONDITIONS. INCLUDE ALL COSTS IN BASE BID TO MEET UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS.
 - VAULTS, MH's AND PULLBOXES (PB's) SHALL BE EQUIPPED WITH KNOCKOUT PANELS OR PRE-CAST INDIVIDUAL CONDUIT OPENINGS. CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER AND EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
 - CUT DUCTS FLUSH WITH INTERIOR VAULT/MH/PB WALL.
 - GROUT AROUND DUCT ENTRANCES ON VAULT/MH/PB WALLS.
 - SLURRY BACKFILL AROUND DUCTS WITHIN 5 FEET OF VAULT/MH/PB TO PREVENT SHEARING.
 - CONDUITS PASSING UNDER THE BUILDING PERIMETER SHALL BE ENCASED IN LIGHTWEIGHT CONCRETE OR WATER-IMPERVIOUS CLAY TO PREVENT WATER INFILTRATION. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - CONDUIT BEND RADIUS FOR BUILDING ENTRANCES AND AT POLES SHALL BE A MINIMUM OF 24" FOR CONDUITS WITH LESS THAN 2" INTERNAL DIAMETER AND A MINIMUM OF 48" FOR CONDUITS WITH MORE THAN 2" INTERNAL DIAMETER.
 - PREFERRED CONDUIT SWEEP RADIUS BETWEEN VAULTS IS 25 FEET. UNDER NO CIRCUMSTANCES SHALL THE CONDUIT SWEEP RADIUS BE LESS THAN 12.5 FEET. MAXIMUM OF 90 DEGREES PER SWEEP AND LIMITED TO NO MORE THAN (2) 90 DEGREE SWEEPS BETWEEN VAULTS.
 - VAULTS/MH's/PB's ARE TO BE EQUIPPED WITH RACKING, GROUNDING LUGS, AND BOLT-DOWN LIDS UNLESS OTHERWISE NOTED.
 - VAULTS AND MH's TO BE EQUIPPED WITH ROUND COVERS, EXTENSION RINGS AS REQUIRED, LADDERS AND (3) SEGMENTS OF 6 FOOT HIGH CABLE RACKING PER EACH LONG WALL.
 - LABEL ALL NON-UTILITY COMMUNICATION VAULT/MH/PB COVERS WITH "COMMUNICATIONS" UNLESS OTHERWISE NOTED ON PLANS.
 - COORDINATE FINAL VAULT/MH/PB OPENING HEIGHT WITH G.C. PRIOR TO ROUGH-IN TO ENSURE FINAL GRADE DOES NOT SLOPE INTO VAULT/MH/PB OPENING.
 - CONTRACTOR TO PROVIDE A MINIMUM OF 8" DEEP COMPACTED 1/2" DIAMETER GRAVEL, UNDER ALL VAULTS, MH's OR PB's TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON THE FLOOR AND BE ABLE TO DISSIPATE WATER OUT OF THE VAULT, MH OR PB.
 - ALL VAULTS/MH's/PB's WITHOUT GROUNDING LUGS SHALL HAVE AN 8' x 3/4" COPPER GROUND ROD DRIVEN THRU THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN.
 - ALL VAULTS/MH's/PB's SHALL BE PROVIDED WITH TRAFFIC RATED COVERS WHEN LOCATED IN PAVED AREAS UTILIZED FOR VEHICLE TRAFFIC.
 - IF THE WATER OR MOISTURE BARRIER ON OR NEAR THE FOUNDATION OF A BUILDING IS DISTURBED IN ANY MANNER BY EXCAVATION OR OTHER CONSTRUCTION WORK, THE MOISTURE BARRIER MUST BE REPAIRED FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ORIGINAL BARRIER PRODUCT.
 - THE CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS TO COMPLY WITH ALL REQUIREMENTS FOR CONFINED SPACE ENTRY PER THE OSHA REQUIREMENTS 29 CFR-1910.146, 29 CFR-1910.268, ETC. DURING ANY CONFINED SPACE ENTRY.
 - ANY DUCTS LEAVING A VAULT, MH OR PB ROUTED INTO A FACILITY SHALL BE PLUGGED AT EACH END USING REMOVEABLE MECHANICAL PLUGS DESIGNED TO PREVENT WATER AND GAS FROM ENTERING THE FACILITY.
 - SEE ELECTRICAL SPECIFICATIONS AND PLAN DETAILS FOR ADDITIONAL REQUIREMENTS REGARDING UNDERGROUND CONDUITS AND IN-GRADE VAULT/MH/PB/JUNCTION BOXES.
 - UNDERGROUND ELECTRICAL CONDUITS SHALL BE CONCRETE ENCASED TO 3 INCHES ABOVE CONDUIT. BACKFILL WITH NATIVE SOIL AND PROVIDE RED METALLIC WARNING TAPE 12" BELOW GRADE.
 - ELECTRICAL DUCT-BANKS SHALL BE INSTALLED WITH SPACER RACKS TO PROVIDE 3" SEPARATION OF CONDUITS.
 - CONTRACTOR SHALL PROVIDE PULLBOXES AS REQUIRED TO COMPLETE RUNS TO DESIGNATED LOCATIONS. COORDINATE ANY ADDITIONAL PULLBOX LOCATIONS WITH OTHER TRADES AND VERIFY LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL.

SITE UTILITY PLAN NOTES:

- UTILITY POINTS OF SERVICE AND WORK/MATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASEMENT OF CONDUITS, TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING AND BACKFILL, AND PAY ALL UTILITY CO. FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
- LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.

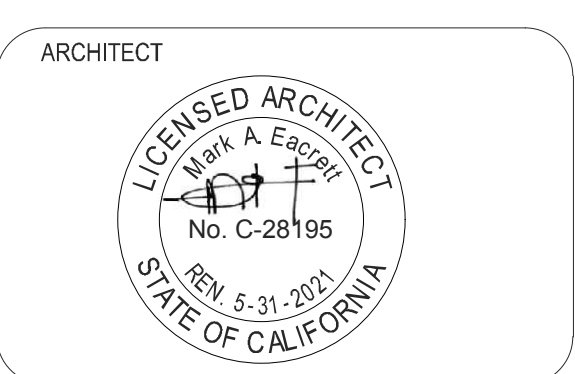
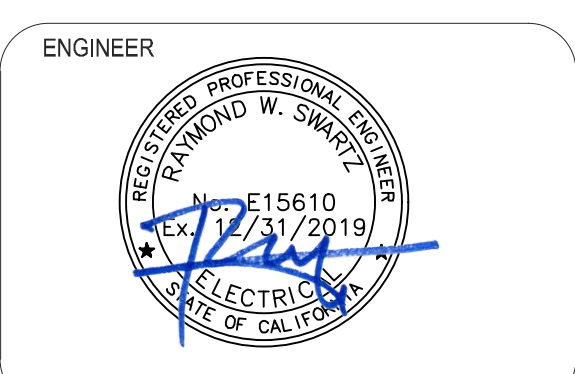
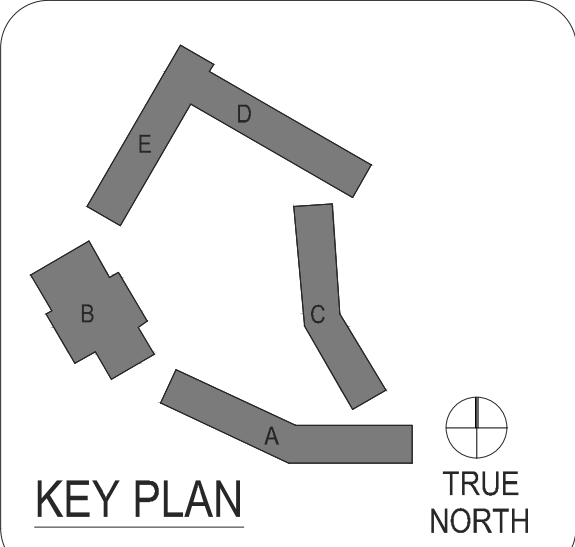


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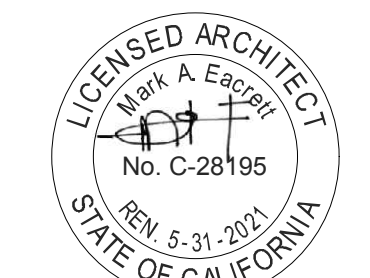
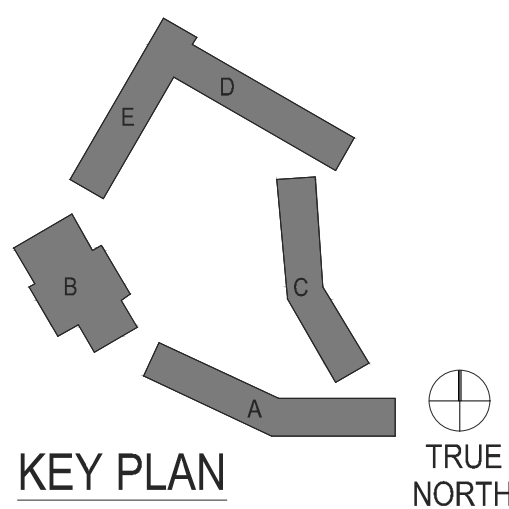
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Tksc Job #: 2018-1005



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THESE NOTES ESTABLISH MINIMUM QUALITY LEVELS AND COORDINATION REQUIREMENTS. RESPECTIVE UTILITY COMPANY PLANS AND REQUIREMENTS TAKE PRECEDENCE OVER THESE NOTES WITH REGARD TO RESPECTIVE UTILITY COMPANY CONDUIT AND UNDERGROUND STRUCTURE SYSTEMS.

1. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
2. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
3. VAULTS, MAINTENANCE HOLES (MH'S), FORMERLY KNOWN AS MANHOLES, AND CONDUITS SHALL MAINTAIN A MINIMUM COVER OF 24" BELOW FINAL SURFACE AT ALL CONDITIONS. INCREASED COVER IS BASED ON CONDUIT SIZE, UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS.
4. VAULTS, MH'S AND PULLBOXES (PB'S) SHALL BE EQUIPPED WITH KNOCKOUT PANELS OF PRE-CAST INDIVIDUAL CONDUIT OPENINGS. CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER AND EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
5. CUT DUCTS FLUSH WITH INTERIOR VAULT/MH/PB WALL.
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13. LABEL ALL NON-UTILITY COMMUNICATION VAULT/MH/PB COVERS WITH "COMMUNICATIONS UNLESS OTHERWISE NOTED ON PLANS.
14. COORDINATE FINAL VAULT/MH/PB OPENING HEIGHT WITH G.C. PRIOR TO ROUGH-IN TO ENSURE FINAL GRADE DOES NOT SLOPE INTO VAULT/MH/PB OPENING.
15. CONTRACTOR TO PROVIDE A MINIMUM OF 8" DEEP COMPACTED 1/2" DIAMETER GRAVEL, UNDER ALL VAULTS, MH'S OR PB'S TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON THE FLOOR AND BE ABLE TO DISSIPATE WATER OUT OF THE VAULT, MH OR PB.
16. ALL VAULTS/MH'S/PB'S WITHOUT GROUNDING LUGS SHALL HAVE AN 8" x 3/4" COPPER GROUND ROD DRIVEN THRU THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN.
17. ALL VAULTS/MH'S/PB'S SHALL BE PROVIDED WITH TRAFFIC RATED COVERS WHEN LOCATED IN PAVED AREAS UTILIZED FOR VEHICLE TRAFFIC.
18. IF THE WATER OR MOISTURE BARRIER ON OR NEAR THE FOUNDATION OF A BUILDING IS DISTURBED IN ANY MANNER BY EXCAVATION OR OTHER CONSTRUCTION WORK, THE MOISTURE BARRIER MUST BE REPAIRED FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ORIGINAL BARRIER PRODUCT.
19. THE CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS TO COMPLY WITH ALL REQUIREMENTS FOR CONFINED SPACE ENTRY PER THE OSHA REQUIREMENTS 29 CFR - 1910.146, AND 29 CFR - 1910.120, ETC. DURING ANY CONFINED SPACE ENTRY.
20. ANY DUCTS LEAVING VAULT, MH OR PB ROUTED INTO A FACILITY SHALL BE PLUGGED AT EACH END USING REMOVABLE MECHANICAL PLUGS DESIGNED TO PREVENT WATER AND GAS FROM ENTERING THE FACILITY.
21. SEE ELECTRICAL SPECIFICATIONS AND PLAN DETAILS FOR ADDITIONAL REQUIREMENTS REGARDING UNDERGROUND CONDUITS AND IN-GRADE VAULT/MH/PB/JUNCTION BOXES.
22. UNDERGROUND ELECTRICAL CONDUITS SHALL BE CONCRETE ENCASED TO 3 INCHES ABOVE CONDUIT, BACKFILL WITH NATIVE SOIL AND PROVIDE RED METALLIC WARNING TAPE 12" BELOW GRADE.
23. ELECTRICAL DUCT-BANKS SHALL BE INSTALLED WITH SPACER RACKS TO PROVIDE 3" SEPARATION OF CONDUITS.
24. CONTRACTOR SHALL PROVIDE PULLBOXES AS REQUIRED TO COMPLETE RUNS TO DESTROYED OR UNKNOWN LOCATION. COORDINATE ANY ADDITIONAL PULLBOX LOCATIONS WITH OTHER TRADES AND VERIFY LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL.

1. UTILITY POINTS OF SERVICE AND WORK/MATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.

2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXISTING WORK/MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLAN. CONDUITS, PIPES, CABLES, PULLBOXES, CONCRETE ENCASEMENT OF CONDUITS, TRANSFORMER PAD, BARRIERS, POLES, RISERS, TRENCHING AND BACKFILL, AND PAY ATTENTION TO CO. FEES AND INJURY TO ADJACENT UTILITIES.
3. LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCT, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO ADJACENT UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF SUBSISTENT UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS ARE NOT TO BE USED FOR ANY OTHER PROJECTS.

- ① PROPOSED NEW SCE TRANSFORMER. VERIFY LOCATION WITH SCE DRAWINGS.
- ② PROPOSED SCE SWITCH LOCATION. VERIFY LOCATION WITH SCE DRAWINGS.
- ③ FURNISH AND INSTALL NEW 4"x4"DEPTH AS REQUIRED IN-GRADE PULL BOX WITH TRAFFIC RATED COVER LABELED "POWER". MOUNT FLUSH TO GRADE.
- ④ FURNISH AND INSTALL NEW 4"x4"DEPTH AS REQUIRED IN-GRADE PULL BOX WITH TRAFFIC RATED COVER LABELED "LOW VOLTAGE". MOUNT FLUSH TO GRADE.
- ⑤ PROVIDE (1)4"C.O. TO TELEPHONE UTILITY COMPANY AND (1)4"C.O. FROM CABLE TV UTILITY COMPANY TO NEW MDF ROOM. VERIFY POINT OF CONNECTION WITH UTILITY COMPANIES.
- ⑥ PROVIDE (2)5"C. FROM POINT OF CONNECTION TO CONNECTION. VERIFY POINT OF CONNECTION WITH UTILITY COMPANIES. REFERENCE SCE DRAWINGS FOR MORE INFORMATION.
- ⑦ PROVIDE THE FOLLOWING SIGNAL SYSTEM CONDUITS WITH SPECIFIED SYSTEM CONDUCTORS, U.O.N.:
 - (1)4"C. DATA/VOIP/IFP CLOACK
 - (1)4"C. TELEPHONE/COPPERS
 - (1)3"C. FIRE ALARM
 - (1)3"C. PUBLIC ADDRESS
 - (1)3"C. SECURITY
 - (2)2"C.O. SPARE

- 6 ACCESS CONTROL CONNECTIONS VERIFY WITH EQUIPMENT INSTALLATION INSTRUCTIONS. PROVIDE 1" TO NEAREST IDF ROOM.
- 9 CONNECT ALL REQUIRED FIRE ALARM DEVICES TO FIRE WATER LINE DRY/SPRINK/DOUBLE BACK CHECK VALVES ETC. TO FIRE ALARM SYSTEM. VERIFY 3/4"TC WITH REQUIRED CONDUITORS. SEE FIRE ALARM SYSTEM SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. VERIFY EXACT LOCATION WITH CIVIL AND ARCHITECT PRIOR TO TRENCHING OR ROUGH-IN.
- 10 PROVIDE (6)4"x(6) AND (2)2"x(6) FOR FUTURE.
- 11 PROVIDE 1"TC POWER AND 1"TC DATA FOR CAMERA LOCATION. CONDUIT AND CABLEING SHALL BE CONCEALED WITHIN LIGHT POLE.
- 12 FURNISH AND INSTALL 2"x3"xDEPTH AS REQUIRED FLUSH-IN-GRADE PULL BOX WITH TRAFFIC RATED COVER LABELED "TELCO" AND 2"x3"xDEPTH AS REQUIRED IN-GRADE PULL BOX WITH TRAFFIC RATED COVER LABELED "SURVEILLANCE". MOUNT BOXES FLUSH TO GRADE. COORDINATE FINAL LOCATION IN FIELD.
- 13 PROVIDE 2"x3"xDEPTH AS REQUIRED, FLUSH-IN-GRADE PULL BOX WITH BOLT DOWN TRAFFIC RATED COVER. PULLBOX SHALL BE IMMEDIATELY SURVEILLANCE. SIGNAGE PROVIDED. 1" CONDUIT FROM PULL BOX TO LIGHT POLE FOR OWNER FURNISHED OWNER INSTALLED PTZ SURVEILLANCE CAMERA. REFER TO LAN NETWORK BLOCK DIAGRAM FOR REQUIRED CABLES AND CONDUITS.
- 14 OWNER FURNISHED OWNER INSTALLED PTZ SURVEILLANCE CAMERA LOCATION, SHOWN FOR REFERENCE ONLY.
- 15 PROVIDE 2-2"x3"CONDUITS FOR CCTV SURVEILLANCE CAMERA CABLES.
- 16 PROVIDE 2-3"x3"CONDUITS FOR CCTV SURVEILLANCE CAMERA CABLES.
- 17 PROVIDE NOTED CONDUIT SIZE AND WIRE SIZE FOR ENTIRE LENGTH OF CIRCUIT.

