

WALK IN FREEZER REPLACEMENT SOUTH FORTUNA ELEMENTARY SCHOOL 2089 NEWBURG ROAD, FORTUNA, CA 95540 FORTUNA ELEMENTARY SCHOOL DISTRICT				PROJECT SUMMARY AND SCOPE OF WORK		SHEET NOTES			
				THE PROJECT SCOPE HAS BEEN IDENTIFIED TO INCLUDE THE FOLLOWING:  REMOVE EXISTING WALK-IN FREEZER AND REPLACE WITH NEW WALK-IN FREEZER.					
GENERAL NOTES				CODES AND REGULATIONS		SHEET INDEX GRAND TOTAL : 6			
<div><div><div><div><div>1. PRIOR TO SUBMITTING BIDS, BIDDER SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE. HE/SHE SHALL BE FAMILIAR WITH THE CONDITIONS UNDER WHICH HE/SHE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. BIDDER SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS, REQUIREING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.</div><div>2. THERE WILL BE NO SUBSTITUTIONS FOR SPECIFIED ITEMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE NOTED. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN ACCORDANCE WITH SPECIAL CONDITIONS AND DIVISION 1.</div><div>3. THE FINAL LOCATION OF ALL ELECTRICAL AND SIGNAL EQUIPMENT, PANEL BOARDS, FIXTURES, ETC., SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.</div><div>4. DEFINITIONS:<div><div>A. "TYPICAL" MEANS IDENTICAL FOR ALL CONDITIONS, UNLESS OTHERWISE NOTED.</div><div>B. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONITION NOTED. VERIFY DIMENSIONS AND ORIENTATIONS.</div><div>C. "PROVIDE" MEANS TO FURNISH AND INSTALL.</div><div>D. "FURNISH" MEANS TO FURNISH AND OTHERS WILL INSTALL.</div></div></div><div>5. DIMENSIONING RULES:<div><div>A. ALL HORIZONTAL DIMENSIONS SHALL BE FACE OF STUD OR COLUMN GRID LINE, U.O.N.</div><div>B. DIMENSIONS NOTED 'CLEAR', 'CLR' OR 'MINIMUM' MUST BE PRECISELY MAINTAINED.</div><div>C. DIMENSIONS CAN NOT BE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.</div><div>D. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB UNLESS OTHERWISE NOTED.</div><div>E. DO NOT SCALE DRAWINGS. IF ANY ITEM OF WORK CANNOT BE LOCATED, SO NOT PROCEED WITH THE WORK WITHOUT THE ARCHITECT'S APPROVAL.</div><div>F. DIMENSIONS MARKED 'V.I.F.' OR 'VERIFY' SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.</div><div>G. VERIFY ALL ROUGH OPENING DIMENSIONS FOR FABRICATED ITEMS WITH THE MANUFACTURER PRIOR TO PROCEEDING WITH CONSTRUCTION.</div><div>H. DOOR AND WINDOW OPENINGS SHALL BE LOCATED ADJACENT TO PERPENDICULAR WALL UNLESS DIMENSIONED OTHERWISE.</div><div>I. PROVIDE REQUIRED BACKING, BLOCKING, AND BRACING FOR ALL WALL-MOUNTED FIXTURES, ACCESSORIES AND EQUIPMENT.</div><div>J. VERIFY AND COORDINATE WALLS THAT MAY REQUIRE NON-TYPICAL THICKNESS OR FRAMING DUE TO ELECTRICAL, MECHANICAL, PLUMBING, STRUCTURAL AND/OR EQUIPMENT REQUIREMENTS.</div><div>K. ALL GLAZING SHALL CONFORM TO FEDERAL GLAZING REGULATIONS AND CHAPTER 24, CBC.</div><div>L. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.</div></div></div><div><div>11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER MATERIALS, DEBRIS, TOOLS AND EQUIPMENT INVOLVED IN HIS/HER OPERATIONS AT THE CONCLUSION OF THE INSTALLATION. HE/SHE SHALL LEAVE ALL AREAS CLEAN AND FREE FROM DUST.</div><div>12. HAZARDOUS MATERIALS: THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF OR EXPOSURE OF PERSONS TO ASBESTOS OR HAZARDOUS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. PROFESSIONAL SERVICES RELATED TO OR IN ANY CONNECTION WITH THE INVESTIGATION, DETECTION, ABATEMENT, REPLACEMENT, USE, SPECIFICATION, OR REMOVAL OF PRODUCTS, MATERIALS, OR PROCESSES CONTAINING ASBESTOS OR HAZARDOUS OR TOXIC MATERIALS ARE BEYOND THE SCOPE OF THIS AGREEMENT.</div><div>13. THE GENERAL CONTRACTOR &amp; SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING &amp; VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATION AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE CITY SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT REPRESENT ALL EXISTING UNDERGROUND UTILITIES.</div><div>14. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.</div><div>15. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIR/WATER TIGHT. ALL INTERIOR PENETRATIONS SHALL BE SEALED TO PROVIDE A PROFESSIONAL AND FINISHED APPEARANCE.</div><div>16. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER USE, CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, PROVIDE ALL ITEMS WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN CONTRACT PRICE OR TIME.</div><div>17. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS/HER SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.</div><div>18. ALL WORK SHALL CONFORM TO CALIFORNIA CODES, TRADE STANDARDS WHICH GOVERN EACH PHASE OF THE PROJECT, AND ALL APPLICABLE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.</div><div>19. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT PROJECT MANUAL PUBLISHED IN BOOK FORM. COMBINED, THEY ARE THE 'CONTRACT DOCUMENTS'.</div><div>20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.</div><div>21. CONSTRUCTION MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE OR DETERIORATION. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK. SECURITY OF MATERIALS ARE THE SOLE RESPONSIBILITY OF GENERAL CONTRACTOR.</div><div>22. ALL EQUIPMENT/CABINETS SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT WITH THIS WORK.</div><div>23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS ATTRIBUTED TO RAIN WATER DAMAGE DURING THE DURATION OF THIS PROJECT.</div></div></div><div><div>24. PROTECT AREAS FROM DAMAGE WHICH MAY OCCUR DUE TO TEMPERATURES, WIND, DUST, WATER, ETC., PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED DURING CONSTRUCTION.</div><div>25. MAINTAIN EXISTING PEDESTRIAN ACCESS ALONG EXISTING ADJACENT STREETS AND CAMPUS PATHWAYS.</div><div>26. ALL PUBLIC IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST ADOPTED CITY/ COUNTY STANDARDS.</div><div>27. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.</div><div>28. NOTIFY THE ARCHITECT IN WRITING AND SEEK CLARIFICATION IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIAL WORK IF RELATED WORK IS CONTINUED AFTER A DISCREPANCY IS IDENTIFIED.</div><div>29. NEW FINISHES AND CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR FROM POTENTIAL DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. DAMAGE TO FINISHES OR CONSTRUCTION SHALL BE REPAIRED OR REPLACED (OWNER'S DECISION) BY THE CONTRACTOR WITH IDENTICAL MATERIAL AND/OR FINISHES. CONTRACTOR SHALL MAKE AND MAINTAIN A PHOTOGRAPHIC RECORD NOTEBOOK WITH DATED/INDEXED PHOTOGRAPHS.</div><div>30. PATCH AND REPAIR ALL SURFACES ADJACENT TO AREAS AFFECTED BY MODERNIZATION TO MATCH EXISTING, U.O.N.</div><div>31. SEE MECHANICAL &amp; PLUMBING DRAWINGS FOR INFORMATION RELATED TO PLUMBING, HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT. SEE ARCHITECTURAL PLANS, REFLECTED CEILING PLANS AND ELEVATIONS FOR COORDINATED EQUIPMENT LOCATIONS. IF NOT SHOWN, CONTACT THE ARCHITECT FOR REVIEW AND DECISION.</div><div>32. SEE ELECTRICAL DRAWINGS FOR INFORMATION RELATED TO TELECOMMUNICATION EQUIPMENT, POWER AND LIGHTING FIXTURES AND EQUIPMENT. SEE ARCHITECTURAL PLANS, REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATED EQUIPMENT LOCATIONS. IF NOT SHOWN, CONTACT THE ARCHITECT FOR REVIEW AND DECISION.</div><div>33. PROVIDE ACCESS DOORS REQUIRED FOR ACCESS TO CONCEALED MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.</div><div>34. ALL NOTED WORK IS UNDERSTOOD TO BE NEW UNLESS LABELED AS 'E!' OR 'EXISTING'.</div><div>35. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING STRUCTURE AND LANDSCAPE OUTSIDE THE PROJECT AREA OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS ATTRIBUTED TO THESE AREAS.</div></div></div><div><div>APPLICABLE STATE CODES AND REGULATIONS WITH LATEST AMENDMENTS AND SUPPLEMENTS:<div><div>1. 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CBCS</div><div>2. 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CBCS (2015 IBC &amp; CALIFORNIA AMENDMENTS)</div><div>3. 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CBCS (2015 NATIONAL ELECTRICAL CODE &amp; CALIFORNIA AMENDMENTS)</div><div>4. 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CBCS (2015 UNIFORM MECHANICAL CODE &amp; CALIFORNIA AMENDMENTS)</div><div>5. 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CBCS (2015 UNIFORM PLUMBING CODE &amp; CALIFORNIA AMENDMENTS)</div><div>6. 2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CBCS</div><div>7. 2016 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 CBCS</div><div>8. 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CBCS (2015 INTERNATIONAL FIRE CODE &amp; CALIFORNIA AMENDMENTS)</div><div>9. 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CBCS</div><div>10. TITLE 8 C.C.R., CH. 4, SUB-CH. 6 – ELEVATOR SAFETY ORDERS</div><div>11. TITLE 19 C.C.R., PUBLIC SAFETY, SFM REGULATIONS</div><div>12. 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE PART 11, TITLE 24.</div></div></div><div>APPLICABLE FEDERAL CODES AND STANDARDS:<div><div>13. AMERICANS WITH DISABILITIES ACT (ADA), TITLE 11</div><div>14. UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) or ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)</div></div></div><div>APPLICABLE REFERENCED STANDARDS:<div><div>15. NFPA 24, PRIVATE FIRE MAINS, 2016 EDITION</div><div>16. NFPA 72, NATIONAL FIRE ALARM CODE, 2016 EDITION</div><div>17. NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES, 2016 EDITION</div><div>18. NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION</div></div></div><div>REFERENCE CODE SECTION FOR NFPA STANDARDS – 2016 CFC CHAPTER 80, SEE CHAPTER 80 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.</div></div></div><div><div>GENERAL A0.1 COVER SHEET A0.2 SYMBOLS AND ABBREVIATIONS</div><div>ARCHITECTURAL A1.1 SITE PLAN AND ENLARGED PLANS</div><div>STRUCTURAL S0.1 GENERAL NOTES S1.0 PLANS</div><div>CUSTOM COOLER FOR REFERENCE ONLY, DRAWING NO. 19-0173-1</div></div></div>				GRAND TOTAL : 6					
SUPPLEMENTAL GENERAL NOTES						DEFERRED APPROVALS		VICINITY MAP	
<div><div>1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.</div><div>2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.</div><div>3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF BCJA ARCHITECTS, AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF BCJA ARCHITECTS.</div><div>4. EACH BIDDER SHALL POSSESS AT THE TIME OF BID, A CLASS B OR THE APPROPRIATE CLASS C CONTRACTORS LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7026.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.</div><div>5. FIRE SAFETY DURING CONSTRUCTION:<div><div>A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH 2016 CALIFORNIA FIRE CODE (C.F.C.) CALIFORNIA CODE OF REGULATIONS (C.C.R.) TITLE 24, PART 9, CHAPTER 33 – FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.</div><div>B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH SECTION 503.</div><div>C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH SECTION 507.</div><div>D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.</div><div>E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CFC CHAPTER 33.</div><div>F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH CFC CHAPTER 33.</div><div>G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.</div></div></div><div><div>6. PENETRATIONS IN FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER THE FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.</div><div>7. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6): "THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED. IT IS BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE DRAWINGS".</div><div>8. ENVELOPE MANDATORY MEASURES:<div><div>A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.</div><div>B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 719 AND 2603 AND THE INTERNATIONAL BUILDING CODE, SECTIONS 719 AND 2603.</div><div>C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.</div><div>D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).</div><div>E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 116(g)(1).</div><div>F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFR) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.</div><div>G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED GLASS (EXCEPT DOORS).</div></div></div><div><div>9. FOR EXPANSION OR EPOXY TYPE ANCHORS REFER TO S0.1 STRUCTURAL GENERAL NOTES.</div><div>10. SPECIFICATIONS FOR AUTOMATIC END WELDED STUDS:<div><div>A. MATERIAL: AUTOMATIC END WELDED STUDS SHALL BE NELSON GRANULAR FLOW-FILLED SHEAR CONNECTOR OR ANCHOR STUDS (OR APPROVED EQUAL). STUDS SHALL BE MANUFACTURED OF 6-10IS COLD ROLLED STEEL WHICH CONFORMS TO ASTM A108.</div><div>B. INSTALLATION: THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" AND UNDER, AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.</div></div></div></div></div><div><div>1. ALL WORK SHALL CONFORM TO THE 2016 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.).</div><div>2. AS A FACILITY WHICH COMES UNDER THE APPROVAL AND AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT (DSA), THIS PROJECT IS SUBJECT TO DRAWING AND JOB SITE REVIEW BY A REPRESENTATIVE OF DSA.</div><div>3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.</div><div>4. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R.</div><div>5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.</div><div>6. A COPY OF PARTS 1 AND 2 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION.</div><div>7. DSA SHALL BE NOTIFIED OF THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24, C.C.R.</div><div>8. THE DIVISION OF THE STATE ARCHITECT IS EXEMPT FROM ARBITRATION OR MEDIATION PROCEDURES.</div><div>9. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT IS PER SECTION 4-334, PART 1, TITLE 24, C.C.R.</div><div>10. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R.:<div><div>- VERIFIED REPORTS PER SECT 4-336; PART 1, TITLE 24 C.C.R.</div><div>- DUTIES OF ARCHITECT PER SECT 4-331, 4-341; PART 1, TITLE 24 C.C.R.</div><div>- DUTIES OF CONTRACTOR PER SECT. 4-343; PART 1, TITLE 24 C.C.R.</div></div></div><div>11. TESTING AND INSPECTION:<div><div>- INSPECTION APPROVED BY DSA AS PER SECT. 4-333(D); PART 1, TITLE 24, C.C.R.</div><div>- TESTS AND TESTING LABORATORIES PER SECT 4-335</div><div>- SPECIAL INSPECTION PER SECT. 4-333(C)</div></div></div><div>12. CHANGES IN LEVEL FOR FLOOR FINISHES SHALL CONFORM WITH C.B.C. SECTION 118-302 AND 118-303.</div><div>13. ALL TESTS TO CONFORM TO REQUIREMENTS OF SECTION 4-335; PART 1, TITLE 24, C.C.R.</div><div>14. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335; PAT 1, TITLE 24, C.C.R. AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OR RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.</div><div>15. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B).</div><div>16. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, WHEREIN THE FINISH WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.</div><div>17. INSPECTOR OF RECORD REQUIREMENTS:<div><div>A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24; PART 1 AND IN ADDITION, SHALL BE STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IS A-6.</div><div>B. INSPECTOR SHALL BE CERTIFIED AS A CLASS [x confirm class] INSPECTOR THROUGH THE DIVISION OF OF STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.</div></div></div></div></div> <div><div>CLIENT FORTUNA ELEMENTARY SCHOOL DISTRICT 500 9th STREET, FORTUNA, CA 95540 [T] (707) 725-2293 Contact Person: Jeff Northern Superintendent jnorthern@fortunaseds.com</div><div>ARCHITECT Brian Whitmore, Principal, AIA, LEED® AP 980 9th St., Suite 2050 Sacramento, CA 95814 [T] (916) 254-5602 brianw@bcjaarchitects.com</div><div>Contact: Brie Gargano Senior Project Manager [T] (408) 588-3836 brie@bcjaarchitects.com</div><div>STRUCTURAL ENGINEER Kevin O'Keefe Universal Structural Engineers, LLC 1660 S. Amphlett Blvd., Suite #335 San Mateo, CA 94402 [T] (650) 312-9233 ktokeefe@universalstructuralengineers.com</div></div>				PROJECT DIRECTORY					
ADD ALTERNATES						DEFERRED APPROVALS		VICINITY MAP	
1. NOT USED						1. ENTER ANY DEFERED APPROVALS HERE (OR NONE IN N/A)			

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GENERAL NOTES

NO. REMARKS DATE

DATE  
05.13.19

● DSA PLAN CHECK

○ DSA BACK CHECK

○ BIDDING

○ CONSTRUCTION

KEY PLAN

FORTUNA ELEMENTARY  
SCHOOL DISTRICT  
500 9th STREET  
FORTUNA, CA 95540

PROJECT PHASE

WALK-IN FREEZER  
REPLACEMENT  
SOUTH FORTUNA  
ELEMENTARY SCHOOL  
2089 NEWBURG ROAD  
FORTUNA, CA 95540

COVER SHEET

Date  
05.13.19

Scale  
AS NOTED

Project Number  
19008

Drawing Number

A0.1



SYMBOLS		ABBREVIATIONS		ARCHITECTURAL DRAWING SYMBOLS and ABBREVIATIONS		DRAWING LEGEND																									
& / AT @ CL C Ø (E) (N) d ⊥ PL #	AND CUBIC INCH CENTERLINE CHANNEL DIAMETER OR ROUND EXISTING NEW PENNY (NAILS) PERPENDICULAR PLATE FOUND OR NUMBER	CTG CTR CUFT CUIN CUST CUYD	COATING CUBIC FOOT CUBIC INCH CUSTODIAN CUBIC YARD	GI GL GLU LAM GLZ GLZCMU	GALVANIZED IRON GLUE GLUE LAMINATED GLAZED GLAZED CONCRETE MASONRY UNITS	N NAT NATURAL NCOMBL NE NIC NLB NO NOM NR NRC NRCA NS NTS	NORTH NOT APPLICABLE NATURAL NONCOMBUSTIBLE NOT EXCEEDING NEAR FACE NOT IN CONTRACT NON-LOAD BEARING NONMETALLIC NUMBER NOMINAL NOISE REDUCTION NOISE REDUCTION COEFFICIENT NATIONAL ROOFING CONTRACTORS ASSOCIATION NEAR SIDE NOT TO SCALE	RL RM RND RO ROW RS RTF RTU RV RVL RVS RYT RWD RWL	ROOF LEADER RAILING ROOM ROUND ROUGH OPENING RIGHT OF WAY ROUGH SAWN RUBBER TILE FLOORING ROOF TOP UNIT ROOF VENT REVEAL REVERSE (SIDE) RIVET(ED) REDWOOD RAIN WATER LEADER	VAR VB VCT VERT VEST VFAT VIF V-JOINT(ED) VNR VR VTR VWC	VARIABLES VINYL BASE VINYL COMPOSITION TILE VERTICAL VESTIBULE VINYL FACED ACOUSTIC TILE VERIFY IN FIELD V-JOINT(ED) VENEER VAPOR RETARDER VENT THROUGH ROOF VINYL WALL COVERING																				
ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS																									
A/C A/E AB	AIR CONDITIONING ARCHITECT/ENGINEER ANCHOR BOLT	ABAN ABC ABV AC ACC ACST AD ADDM ADH ADJ ADJC AFF AFG AGGR AHU AL ALT AN ANC APLD APPRX ARCH ASC ASPH ASSY ASYM AWG	ABANDON AGGREGATE BASE COURSE ABOVE ASPHALTIC CONCRETE ACCESS(BLE) ACOUSTICAL ACOUSTICAL CEILING TILE AREA DRAIN ADDENDUM ADHESIVE ADJUSTABLE ADJACENT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AGGREGATE AIR HANDLING UNIT ALUMINUM ALTERNATE ANODIZED ANCHOR, ANCHORAGE APPLIED APPROXIMATE ARCHITECT(URAL) ABOVE SUSPENDED CEILING ASPHALT ASSEMBLY ASYMMETRICAL AMERICAN WIRE GAGE	BC BD BITUM BLDG BLK BLKG BLW CLG BLW FFLR BLW BM BN BOT BRGG BRIDGING BRG BRK BRKT BRS BRZ BSMT BTWN BUR BW	BACK OF CURB BOARD BITUMINOUS BUILDING BLOCK BLOCKING BELOW CEILING BELOW FINISH FLOOR BELOW BENCH MARK BOUNDARY NAILING BOTTOM BRACING BRIDGING BEARING BRICK BRACKET BRASS BRONZE BOTH SIDES BASEMENT BETWEEN BUILT UP ROOFING BOTH WAYS	C&G CAB CAD CB CBB CEM CER CFCI CFLG CFOI CG CHBD CHFR CI CIR CIRC CJ CL CLG CLJ CLL CLOS CLR CLRM CMPST CMU CNCL CNR CNTR COL COM COMB COMPT CONC CONF CONN CONSTR CONT COORD CORR COPR CPRS CPT CRS CS CSG CSK CSMT CSWK CT CTB CTF	CURB AND GUTTER CABINET CADMIUM CATCH BASIN CEMENTITIOUS BACKER BOARD CEMENT CERAMIC CONTRACTOR FURNISH CONTRACTOR INSTALLED COUNTERFLASHING CONTRACTOR FURNISH OWNER INSTALLED CORNER GUARD CHALKBOARD CHAMFER CAST IRON CIRCULAR, CIRCUMFERENCE CONSTRUCTION JOINT CHAIN LINK CEILING CONTROL JOINT CONTRACT LIMIT LINE CLOSURE CLEAR(ANCE) CLASSROOM COMPOSITION CONCRETE MASONRY UNIT CONCEALED CORNER COUNTER COLUMN COMMON COMBINATION COMPARTMENT CONCRETE CONFERENCE CONNECTION CONSTRUCTION CONTINUOUS (ATION) CONTRACT(OR) COORDINATE CORRIDOR COPPER COMPRESS(ED), (ION), (IBLE) CARPET(ED) COLD ROLLED STEEL CAST STONE CASING COUNTERSUNK CASEMENT CASEWORK CERAMIC TILE CERAMIC TILE BASE CERAMIC TILE FLOOR	D DA DBL DEMO DEP DEPT DET DF DH DIA DIAG DIFF DIM DISP DIV DMPF DMT DN DR DRB DRV DSP DSY DRAIN DVTL DW DWM DOW DWR	DRAIN DOUBLE DEMOLISH, DEMOLITION DEPRESSED DEPARTMENT DETAIL DRINKING FOUNTAIN DOUBLE HUNG DIAMETER DIAGONAL DIFFUSER DIMENSION DISPENSER DIVISION DAMP-PROOFING DEMOUNTABLE DOWN DOOR DRAINBOARD DOOR LOUVER DOWNSPOUT DRY STANDPIPE DRAIN TILE DOVETAIL DISHWASHER DRAWING DOWEL DRAWER	E EACH EAR EAB EAC EAF EFS EHD EIFS EJ EL ELAST ELEC ELEV EMER ENCL ENGR ENTR EP EQ EQUIP ESCU ESCL ESMT EWC EWH EWS EXC EXG EXH EXP EXPN EXSTR EXT	EAST EACH EXHAUST AIR REGISTER EXPANSION BOLT EACH END EACH FACE EXTERIOR FINISH SYSTEM ELECTRIC HAND DRYER EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELEVATION ELASTOMERIC ELECTRIC(AL) ELEVATOR EXPANDED METAL EMERGENCY EDGE NAILING ENCLOSURE(URE) ENGINEER ENTRANCE ELECTRICAL PANELBOARD EQUAL EQUIPMENT ESCUTCHEON ESCALATOR EASEMENT EACH WAY ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EYE WASH STATION EXCAVATE EXISTING EXHAUST EXPOSED EXPANSION EXTRA STRONG EXTERIOR	F/F FAB FBD FBKR FBRK FDN FE FEC FFA FFB FFEL FFL FGL FHC FHMS FIN FJT FLASH FLG FLR FLUORESCENT FLNR FOC FOF FOG FOM FOS FPL PPRF FR FRG FRP FRTW FRZ FS FSTN FTG FUT FUR FWE	FACE TO FACE FIRE ALARM FABRIC FIBERBOARD FIRE BRICK FACE BRICK FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FROM FLOOR ABOVE FROM FLOOR BELOW FINISHED FLOOR ELEVATION FINISHED FLOOR LINE FIBERGLASS FIRE HOSE CABINET FLATHEAD MACHINE SCREW FLATHEAD WOOD SCREW FINISH(ED) FLUSH JOINT FLASH(ING) FOLDING FLOORING FLOOR FLUORESCENT FIELD NAILING FACE OF CONCRETE FACE OF FINISH FACE OF GRID FACE OF MASONRY FACE OF STUDS FIREPLACE FIREPROOF(ING) FRAME(ED), (ING) FIBER REINFORCED GYPSUM FIBERGLASS REINFORCED FIRE RETARDANT TREATED WOOD FREEZER FAR SIDE FASTEN, FASTENER FOOT OR FEET FURRED (ING) FUTURE FABRIC WALL COVERING	GND GPC GR LN GR BM GR GRBD GSB GSS GST GT GVL GYP	GROUND GYPSUM PLASTER CEILING GRADE LINE GRADE BEAM GRADE, (ING) GARBAGE DISPOSER GYPSUM SHEATHING BOARD GALVANIZED STEEL SHEET GLAZED STRUCTURAL TILE GROUT GRAVEL GYPSUM	HB HC HD HD JT HDAS HDR HDW HDWD HEX HHR HLDN HMD HMF HNDRL HORIZ HPT HOUR HT HTG HVAC HWH	HOSE BIBB HOLLOW CORE HEAVY DUTY HEAD JOINT HEADED ANCHOR STUD HEADER HARDWARE HARDWOOD HEXAGONAL HANGER HOLD DOWN HOLLOW METAL HOLLOW METAL DOOR HOLLOW METAL DOOR AND FRAME HOLLOW METAL FRAME HANDRAIL HORIZONTAL HIGH POINT HOUR HEIGHT HEATING HEATING/VENTILATING/ AIR CONDITIONING HOT WATER HEATER	ID INCL INSTL INSUL INT INV IPS	INSIDE DIAMETER INCLUDE(D), (ING) INSTALL INSULATE(D), (ION) INTER INVERT IRON PIPE SIZE	JAN JST JT KIT KO KPL	JANITOR JOIST JOINT KITCHEN KNOCKOUT KICKPLATE	LAB LAD LAM LAV LBL LBR LBS LDR LG LH LHR LKNT LKR LKWASH LLH LLV LMST LNDSCP LNTL LP LPT LQ LTWT LVL LVR LW LWIC	LABORATORY LADDER LAMINATE(D) LAVATORY LABEL LUMBER POUND LEADER LENGTH LEFT HAND LEFT HAND REVERSE LOCKNUT LOCKER LOCKWASHER LONG LEG HORIZONTAL LONG LEG VERTICAL LIMESTONE LANDSCAPE(D) LINET LIGHT LIGHTPROOF LOW POINT LIGHT LIGHT WEIGHT LEVEL(ER) LOUVER LIGHTWEIGHT CONCRETE LIGHTWEIGHT INSULATING CONCRETE	MAINT MAS MBA MAX MBR MC MCB MDO MECH MED MEMB MEZZ MFD MFG MH MIN MIRR MISC ML MLDNG MLWK MO MOD MOR MRB MRD MTD MTL MTR MULL MVLB MWP	MAINTAIN(ANCE) MASONRY MATERIAL MAXIMUM MEDIUM BRONZE ANODIZED MACHINE BOLT MEMBER MEDICINE CABINET METAL CORNER BEAD MEDIUM DENSITY OVERLAD MECHANICAL MEDIUM MEMBRANE MEZZANINE METAL FLOOR DECKING MANUFACTURE(ER) MANHOLE MINIMUM MIRROR MISCELLANEOUS METAL LATH MOLDING MILLWORK MASONRY OPENING MODULE (AR) MOISTURE RESISTANT MARBLE METAL ROOF DECKING MACHINE SCREW MOUNTED METAL MORTAR MULLION MOVABLE MEMBRANE WATER PROOFING	N NAT NATURAL NCOMBL NE NIC NLB NO NOM NR NRC NRCA NS NTS	NORTH NOT APPLICABLE NATURAL NONCOMBUSTIBLE NOT EXCEEDING NEAR FACE NOT IN CONTRACT NON-LOAD BEARING NONMETALLIC NUMBER NOMINAL NOISE REDUCTION NOISE REDUCTION COEFFICIENT NATIONAL ROOFING CONTRACTORS ASSOCIATION NEAR SIDE NOT TO SCALE	RL RM RND RO ROW RS RTF RTU RV RVL RVS RYT RWD RWL	ROOF LEADER RAILING ROOM ROUND ROUGH OPENING RIGHT OF WAY ROUGH SAWN RUBBER TILE FLOORING ROOF TOP UNIT ROOF VENT REVEAL REVERSE (SIDE) RIVET(ED) REDWOOD RAIN WATER LEADER	VAR VB VCT VERT VEST VFAT VIF V-JOINT(ED) VNR VR VTR VWC	VARIABLES VINYL BASE VINYL COMPOSITION TILE VERTICAL VESTIBULE VINYL FACED ACOUSTIC TILE VERIFY IN FIELD V-JOINT(ED) VENEER VAPOR RETARDER VENT THROUGH ROOF VINYL WALL COVERING
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ARCHITECT

ENGINEER

NO.

REMARKS

DATE

DRAWING STATUS

DSA PLAN CHECK  
DSA BACK CHECK  
BIDDING  
CONSTRUCTION

DATE  
05.13.19

KEY PLAN

FORTUNA ELEMENTARY  
SCHOOL DISTRICT  
500 9th STREET  
FORTUNA, CA 95540

PROJECT PHASE

WALK-IN FREEZER  
REPLACEMENT  
SOUTH FORTUNA  
ELEMENTARY SCHOOL  
2089 NEWBURG ROAD  
FORTUNA, CA 95540

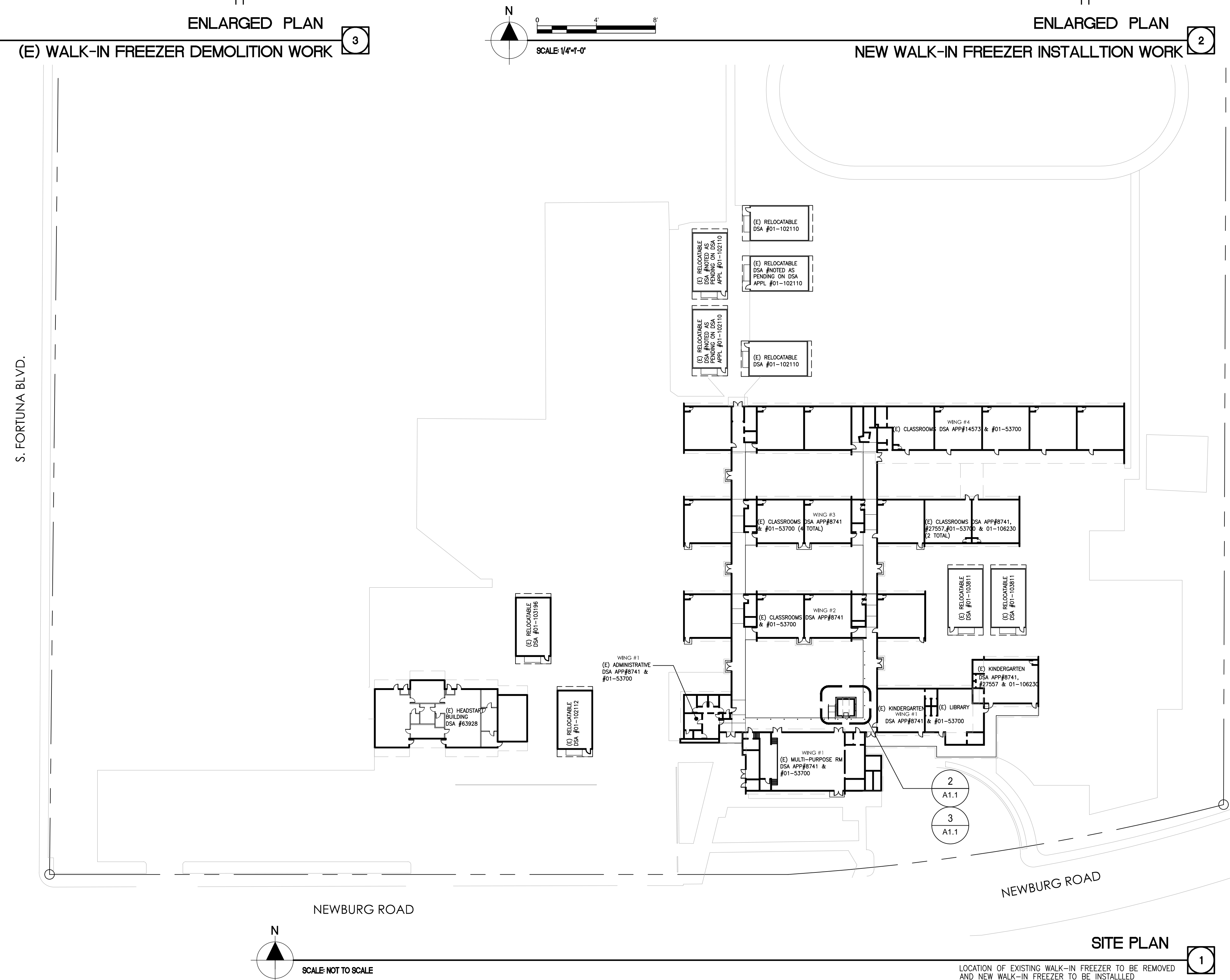
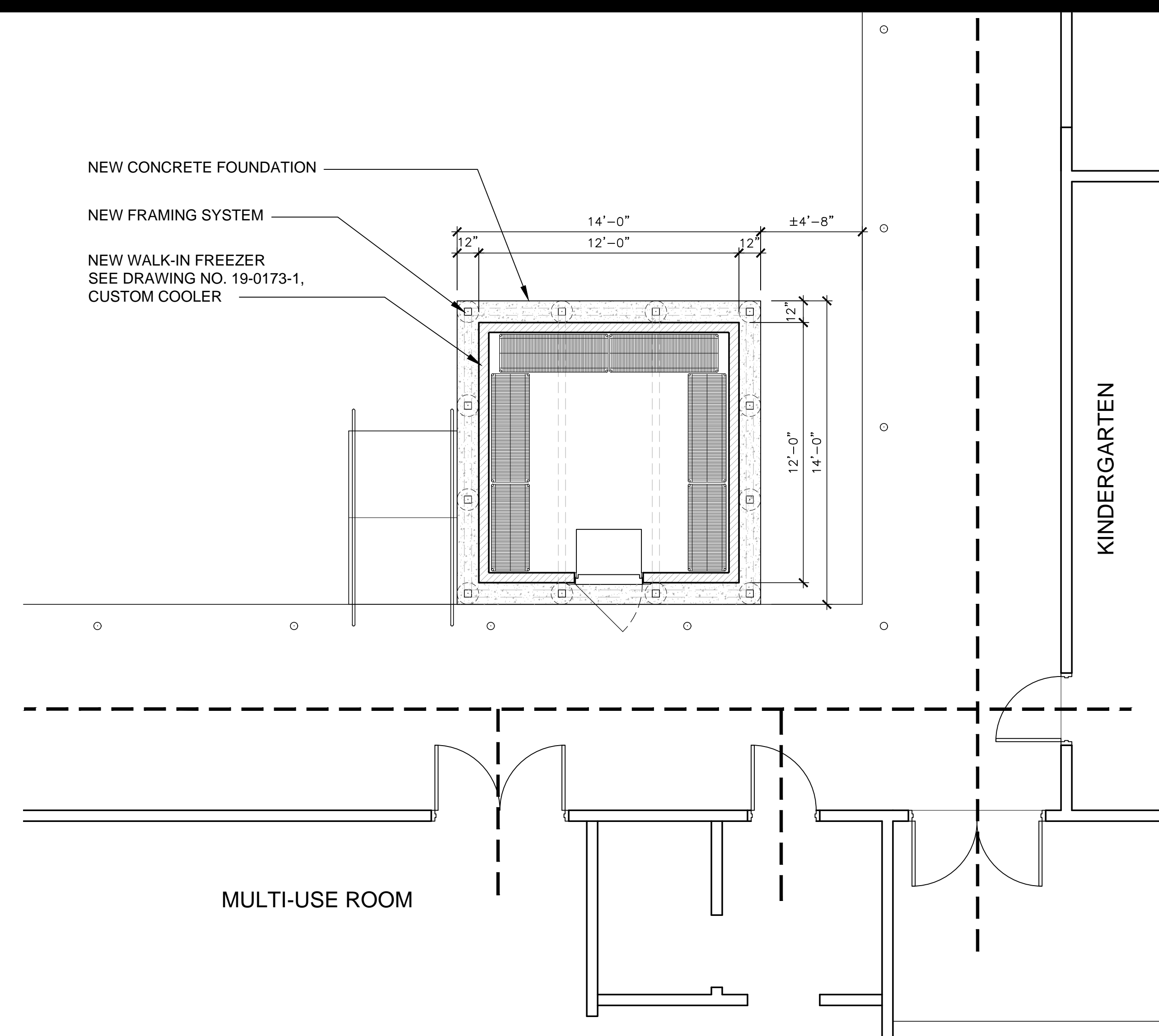
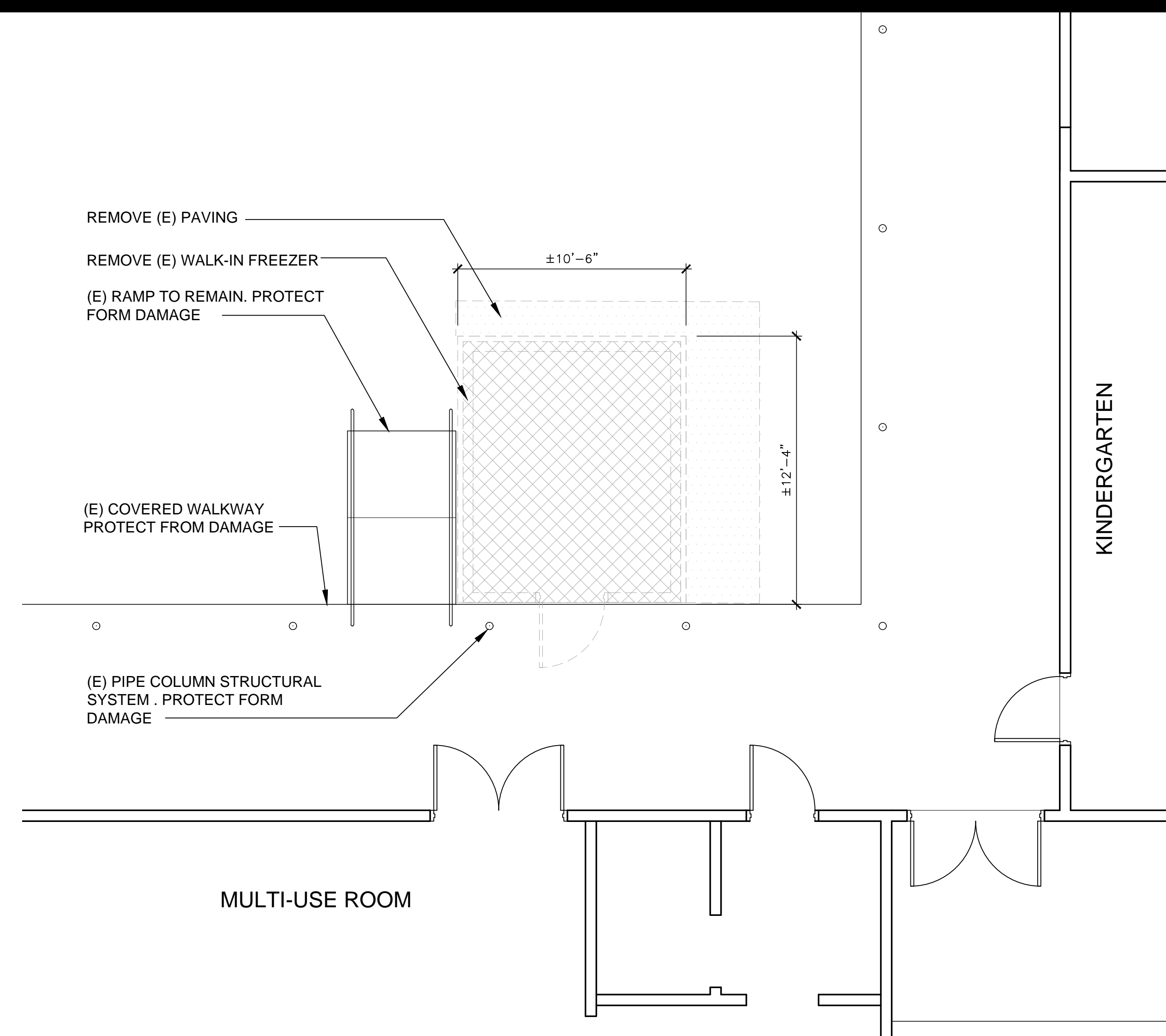
SYMBOLS and  
ABBREVIATIONS

Date  
05.13.19


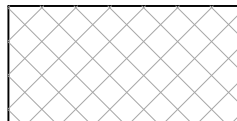
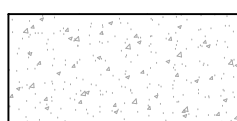
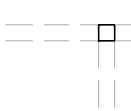



Scale  
AS NOTED

Project Number  
19008

Drawing Number  
A0.2



## SITE LEGEND

	REMOVE A PORTION OF EXISTING PAVING AS REQUIRED AND PREPARE SITE FOR THE INSTALLATION OF NEW FOUNDATION.
	EXISTING WALK-IN FREEZER AND ASSOCIATED CONCRETE FOUNDATION TO BE REMOVED.
	NEW CONCRETE FOUNDATION SEE STRUCTURAL DRAWING
	NEW FRAMING SYSTEM. SEE STRUCTURAL DRAWING
	PROPERTY LINE
	EXISTING ACCESSIBLE P.O.T.
	D&A APPL. #01-103811 5% MAX SLOPE IN THE DIRECTIONS OF TRAVEL AND 2% MAX CROSS SLOPES


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[illegible]

DRAWING STATUS	<input checked="" type="radio"/> DSA PLAN CHECK	DATE 05.13.19
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	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

KEY PLAN

FORTUNA ELEMENTARY  
SCHOOL DISTRICT  
500 9th STREET  
FORTUNA, CA 95540

PROJECT PHASE

WALK-IN FREEZER  
REPLACEMENT  
SOUTH FORTUNA  
ELEMENTARY SCHOOL  
2089 NEWBURG ROAD  
FORTUNA, CA 95540

## SITE PLAN AND ENLARGED PLANS

Date	Drawing Number
05.13.19	A1.1
Scale	
AS NOTED	
Project Number	
19008	



GENERAL NOTES

1. GENERAL

- 1.1. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
- 1.2. ALL CODE OR STANDARDS REFERENCES SHALL BE CONSIDERED TO BE THE MOST RECENT EDITION OF THE CODE OR STANDARD.
- 1.3. THE DESIGN WAS PERFORMED IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE AND LOCAL JURISDICTION. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL JURISDICTION AND STATE BUILDING CODES IN EFFECT AT THE SITE OF THE BUILDING.
- 1.4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES, PROCEDURES, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE TO COMPLETE THE WORK AS SPECIFIED BY THE CONTRACT DOCUMENTS.
- 1.5. BELOW ARE THE DESIGN LOADS AND PARAMETERS THAT WERE USED IN THE DESIGN OF THE STRUCTURE:

BUILDING	DESIGN CATEGORY	SEISMIC DESIGN PARAMETERS						
		I	$\alpha_p$	$R_p$	$Q_0$	SOIL CLASS	$S_Ds$	$S_D1$
FREEZER	D	1.0	2.5	6.0	2.5	D	1.575	1.019

- 1.6. ALL MEMBERS AND CONNECTIONS FOR THE PROJECT, WHICH MAY NOT BE SHOWN OR SHOWN FULLY, SHALL BE CONSTRUCTED IN A MANNER SIMILAR TO THAT USED FOR SIMILAR MEMBERS AND CONNECTIONS.
- 1.7. THE EXISTING MEMBERS, CONNECTIONS AND CONDITIONS SHOWN ON THESE DRAWINGS HAS BEEN DETERMINED BY SOME MINOR FIELD VERIFICATION AND ANY AVAILABLE "RECORD" DRAWINGS MADE AVAILABLE TO THE ENGINEER. THE ENGINEER HAS MADE A GOOD FAITH EFFORT TO DETERMINE THE EXISTING CONSTRUCTION INFORMATION AND TECHNIQUES BUT SHALL NOT BE HELD ACCOUNTABLE FOR THE COMPLETE ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THE PLANS AND DETAILS. THE CONTRACTOR AND SUBCONTRACTORS SHALL MAKE ALLOWANCES AND PROVISIONS IN PRICING AND TIME FRAME FOR ANY FIELD ADJUSTMENTS THAT MAY BE REQUIRED. PRIOR TO THE START OF WORK, THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE AND DETERMINE THE EXISTING CONSTRUCTION AND TECHNIQUES FOR THEMSELVES AND BRING TO THE ATTENTION OF THE ENGINEERS ANY DISCREPANCIES.
- 1.8. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AND SUBCONTRACTOR PRIOR TO THE START OF WORK. ALL DIMENSIONS SHALL BE COORDINATED WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AS WELL AS ALL OTHER DRAWINGS AND SPECIFICATIONS. REPORT ANY AND ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK. FABRICATION OF MEMBERS AND CONNECTIONS SHALL NOT START UNTIL ALL DISCREPANCIES ARE RESOLVED AND THE PROJECT IS READY FOR THE CONDITIONS OF THE JOBSITE REPRESENTING THE SAFETY OF PERSONS AND PROPERTY. ALL NEW AND EXISTING CONSTRUCTION AND MATERIALS SHALL BE PROTECTED BY THE CONTRACTOR FROM ADVERSE CONDITIONS AND DAMAGE.
- 1.9. CONDUCT ALL WORK IN A MANNER WHICH MINIMIZES THE DAMAGE TO THE EXISTING STRUCTURE AND FINISHES.
- 1.10. (N) INDICATES NEW CONSTRUCTION. (E) INDICATES EXISTING CONSTRUCTION.
- 1.11. THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED TO RESIST THE SUPERIMPOSED LIVE LOADS REQUIRED BY THE BUILDING CODE AND FOR ADDITIONAL LOADING DETERMINED BY STANDARD ENGINEERING PRACTICES. NO SPECIAL LOADING CONDITIONS HAVE BEEN CONSIDERED FOR RESISTING CONCENTRATED LOADS FROM STORAGE AND HANDLING OF CONSTRUCTION MATERIALS OR FROM OPERATION OF CONSTRUCTION EQUIPMENT. ALL SCAFFOLDING, BRACING AND SHORING SYSTEMS REQUIRED FOR INSTALLATION, STABILITY, AND SAFETY OF NEW WORK AND PROTECTION REQUIRED FOR THE SAFETY OF PEDESTRIANS AND JOBSITE PERSONNEL SHALL BE PROVIDED BY THE CONTRACTOR.
- 1.12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE FROM ADVERSE CONDITIONS AND DAMAGE.
- 1.12.1. CONCRETE MIX DESIGN.
- 1.12.2. CONCRETE REINFORCING.
- 1.12.3. STRUCTURAL STEEL AND MISCELLANEOUS IRON.

THE PROJECT ENGINEER OF RECORD SHALL STAMP THE SUBMITTAL AS HAVING BEEN REVIEWED OR APPROVED PRIOR TO SUBMITTAL TO THE BUILDING OFFICIAL HAVING JURISDICTION AND DISTRIBUTION TO THE JOBSITE. IF THE SUBMITTAL IS IN PAPER FORM INCLUDE AT LEAST ENOUGH SETS OF PRINTS FOR THE ENGINEER TO RETAIN ONE.

- 1.13. UNLESS SPECIFICALLY STATED IN THE APPROVAL, THE APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTORS FROM COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. DIMENSIONS AND QUANTITIES MAY NOT BE CHECKED BY THE ENGINEER, AND APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER ONLY REPRESENTS THE APPROVAL OF GENERAL FABRICATION.
- 1.14. IN ANY CONDITION WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, WHERE THERE APPEARS TO BE ERRORS IN THE DRAWINGS, DISCREPANCY BETWEEN THE DRAWINGS AND FIELD CONDITION, OR THERE APPEARS TO BE TYPOGRAPHICAL ERRORS IN THE SPECIFICATIONS, NOTIFY THE ENGINEER FOR INSTRUCTIONS ON HOW TO PROCEED. IN THE CASE WHERE THE CONTRACTOR PROCEEDS WITH THE WORK IN QUESTION WITHOUT DIRECTION FROM THE ENGINEER, THE CONTRACTOR OR SUBCONTRACTORS SHALL BE RESPONSIBLE FOR ANY INCORRECT CONSTRUCTION.
- 1.15. IF TWO OR MORE DETAILS APPLYING TO THE SAME PART OF THE WORK ARE IN CONFLICT, THE MOST RESTRICTIVE CONDITION SHALL APPLY UNLESS CLARIFIED OR OTHERWISE APPROVED BY THE ENGINEER.
- 1.16. THE CONDITIONS AFFECTING THE WORK SHALL BE CAREFULLY EXAMINED BY THE CONTRACTOR AND EACH SUBCONTRACTOR BEFORE PROCEEDING AND SHALL REPORT TO THE ENGINEER ANY CONDITIONS WHICH PREVENTS THE PROPER COMPLETION OF THE WORK. FAILURE TO REPORT ANY SUCH UNSUITABLE CONDITION WILL CONSTITUTE ACCEPTANCE OF ALL CONDITIONS BY THE CONTRACTOR OR SUBCONTRACTORS.
- 1.17. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER OF THE STRUCTURE AS REQUIRED BY SECTION 17031A OF THE 2016 CALIFORNIA BUILDING CODE FOR EACH OF THE ITEMS LISTED BELOW:
- 1.17.1. EPOXY OR EXPANSION BOLTS/REBAR/THEADED RODS IN CONCRETE OR MASONRY.
- 1.17.2. STRUCTURAL WELDING.
- 1.17.3. PLACEMENT OF REINFORCING STEEL IN CONCRETE.
- 1.17.4. TAKING OF TEST SPECIMENS AND PLACING OF CONCRETE.
- 1.18. SPECIAL INSPECTION AGENCY AND ALL SPECIAL INSPECTORS SHALL BE RECOGNIZED AND APPROVED BY THE BUILDING OFFICIAL HAVING JURISDICTION OVER THIS PROJECT.

2. FOUNDATIONS

- 2.1. EXCAVATIONS CAST WITHOUT FORMING IN EARTH TRENCHES SHALL BE COMPLETED AS STRAIGHT, CLEAN AND DEEP AS POSSIBLE TO THE REQUIRED SIZE AND SHAPE OF THE FOOTINGS. ALL EXCAVATIONS SHALL BE BACKFILLED WITH CONCRETE OR COMPACTED SOIL/GRAVEL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. REFER ALSO TO THE GEOTECHNICAL REPORT FOR FURTHER INSTRUCTIONS. IF FOUNDATION CONCRETE IS NOT POURED DIRECTLY AGAINST UNDISTURBED SOIL DUE TO FORM WORK, THE VOIDS CREATED FROM THE FORM WORK SHALL BE BACKFILLED WITH CONCRETE OR SOIL/GRAVEL MATERIAL COMPACTED TO AT LEAST 90% OF ITS RELATIVE COMPACTION.
- 2.2. NO GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT. USE ALLOWABLE SOIL BEARING VALUES PER TABLE 1806.2 OF THE 2016 CALIFORNIA BUILDING CODE.
- 2.3. ALLOWABLE SOIL PRESSURES:
- 1500 LBS/SQ. FT. FOR DEAD LOADS.
- 1500 LBS/SQ. FT. FOR COMBINED DEAD AND LIVE LOADS
- 2000 LBS/SQ. FT. FOR COMBINED DEAD, LIVE AND SEISMIC LOADS

3. CONCRETE

- 3.1. CONCRETE MATERIALS:
- 3.1.1. CEMENT: ASTM C 150 TYPE II, THROUGHOUT THE PROJECT CEMENT OF THE SAME BRAND, TYPE AND SOURCE SHALL BE USED. USE LOW ALKALI CEMENT IN ANY CASE WHERE THE AGGREGATES ARE POTENTIALLY REACTIVE.
- 3.1.2. AGGREGATES: ASTM C 33 AND C 88. THE AGGREGATES USED SHALL BE CONSTANT AND FROM A SOURCE WITH A PROVEN HISTORY OF SUCCESSFUL USE. IF THE SOURCE IS NOT CONSTANT, 10 DAYS PRIOR NOTICE IS REQUIRED FOR APPROVAL OF NEW SOURCE AFTER RECHECK OF MIX DESIGN.
- 3.1.2.1. FINE AGGREGATE SHALL BE SAND FROM SOURCES APPROVED BY THE STRUCTURAL ENGINEER.
- 3.1.2.2. COARSE AGGREGATE SHALL BE COARSE LESTONE OR GRANITE AGGREGATE, FROM SOURCES APPROVED BY STRUCTURAL ENGINEER.
- 3.1.3. CONCRETE MIXES SHALL CONFORM TO ALL APPLICABLE CALIFORNIA BUILDING CODE AND ACI 318 REQUIREMENTS REGARDLESS OF OTHER MINIMUM REQUIREMENTS SPECIFIED HEREIN OR ON THE DRAWINGS. THE CONCRETE DESIGN MIX MUST BE COMPLETED BY A TESTING LABORATORY THAT IS APPROVED BY THE ENGINEER AND THE GOVERNING AGENCY BEFORE USE. ALL MIX DESIGNS MUST SUBMITTED TO AND APPROVED BY THE ENGINEER. THE PROPORTION OF CEMENT, AGGREGATES (FINE AND COARSE), WATER, AND GRADATION OF COMBINED AGGREGATES SHALL BE SHOWN IN THE DESIGN.
- 3.1.4. THE CONCRETE MIX DESIGN SHALL AT MINIMUM MEET THE REQUIREMENTS AS INDICATED BELOW. THE CEMENT CONTENT MAY BE INCREASED BEYOND THE SPECIFIED AMOUNT IF REQUIRED TO ACHIEVE THE NECESSARY COMPRESSIVE STRENGTH IN A GIVEN TIME FRAME.

SCHEDULE OF CONCRETE MIXES:

MIX NO.	LOCATION	28 DAY COMPRESSIVE STRENGTH	MIN. CEMENT CONTENT (SACKS)	SLUMP RANGE	MAX. AGGREGATE SIZE
1	FOUNDATIONS	3000 psi	5	3"-4"	1"
2	SLAB ON GRADE	3000 psi	5½	3"-4"	1"

- 3.2. REINFORCING BARS SHALL BE INTERMEDIATE GRADE ASTM A615, GRADE 60, TYPICAL, UNLESS OTHERWISE NOTED.
- 3.3. PROVIDE CONCRETE COVER PROTECTION FOR REINFORCEMENT PER THE FOLLOWING:
- 3.3.1. SURFACES POURED AGAINST EARTH 3"
- 3.3.2. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
- 3.3.2.1. NO. 5 BARS, W31 OR D31 WIRE AND SMALLER 1½"
- 3.3.3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
- 3.3.3.1. SURFACES OF SLABS, WALLS, AND JOISTS ¾"
- 3.3.3.1.1. NO. 11 BAR AND SMALLER ¾"
- 3.4. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾" CHAMFER, UNLESS OTHERWISE SHOWN.

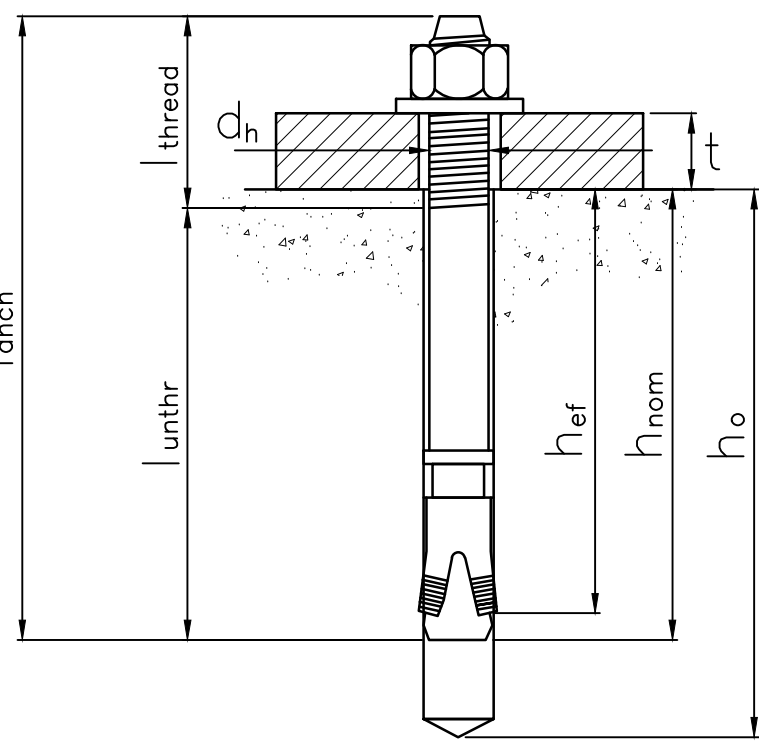
- 3.5. PRIOR TO POURING CONCRETE, RIGIDLY SECURE ALL REINFORCING, ANCHOR BOLTS, INSERTS, ETC.
- 3.6. HORIZONTAL REINFORCING SHALL BE SUPPORTED ON GALVANIZED CHAIRS (EXCEPT AT FOOTINGS OR SLABS-ON-GRADE MORTAR BLOCKS OR OTHER APPROVED METHOD OF SUPPORT MAY BE USED).
- 3.7. EDGE OF SLAB FORM WORK MAY BE REMOVED AFTER A MINIMUM OF 24 HOURS. FORM WORK FOR WALLS 4'-0" TALL OR LESS MAY BE AFTER 36 HOURS. ALL OTHER REMOVAL OF FORM WORK, SHORING AND RESHORING SCHEDULES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 3.8. HOOKS SHALL BE STANDARD HOOKS PER ACI 318 UNLESS OTHERWISE NOTED.
- 3.9. LAP CONTACT SPICES, HOOK EMBEDMENT, AND DEVELOPMENT LENGTHS SHALL BE PER ACI 318 UNLESS OTHERWISE NOTED. LAP SPICES SHALL BE STAGGERED WHERE POSSIBLE.
- 3.10. ALL REINFORCEMENT IS TO BE COLD BENT. HEATING OF REINFORCEMENT IS NOT ALLOWED.
- 3.11. FORM AND SHORING REMOVAL SHALL NOT INJURE OR OVERSTRESS COMPLETE OR PARTIALLY COMPLETE STRUCTURAL ELEMENTS. TIME OF FORM OR SHORE REMOVAL SHALL BE IN ACCORDANCE WITH ACI 347.

4. STRUCTURAL STEEL

- 4.1. ALL STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL CONFORM TO AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICES. AWS SPECIFICATIONS APPLY TO ALL WELDING.
- 4.2. STRUCTURAL STEEL SHALL BE PER THE SCHEDULE BELOW:

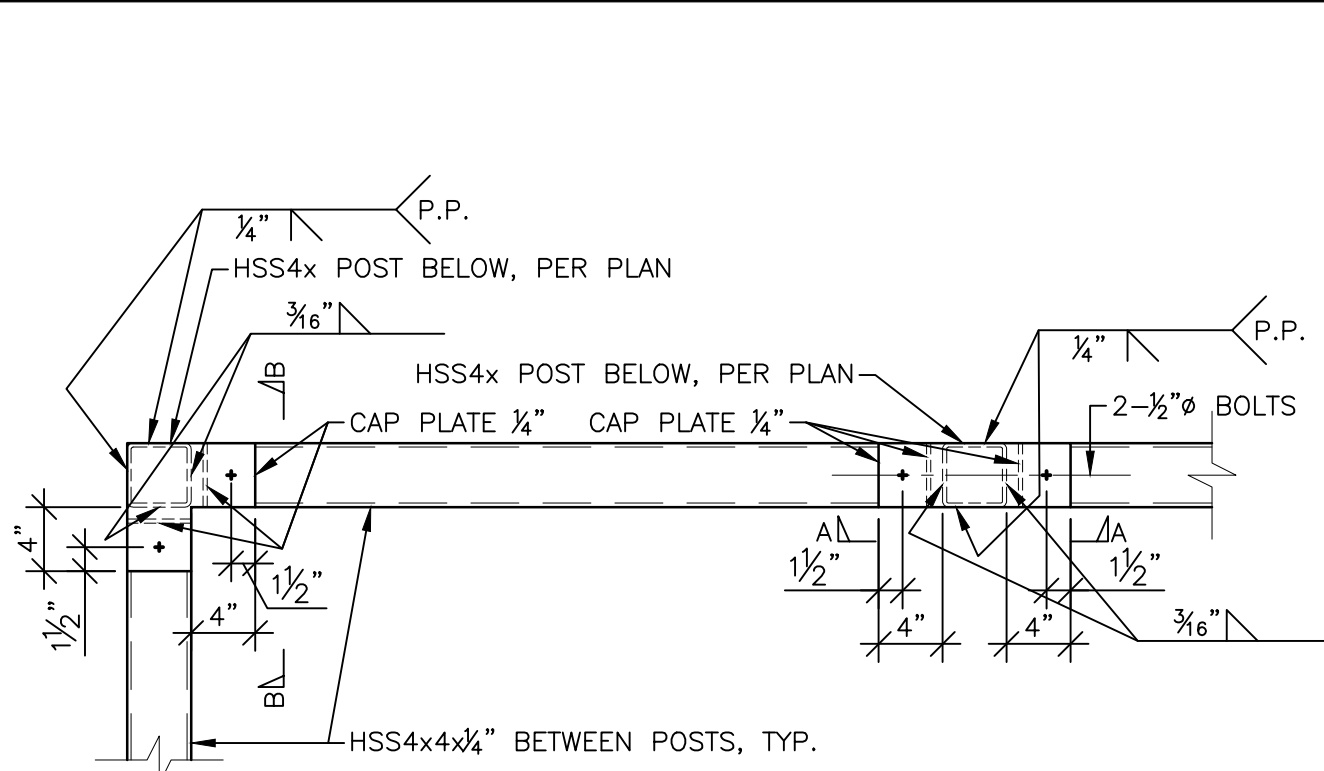
STEEL SPECIFICATION SCHEDULE	
STEEL	SPECIFICATION
ANGLES	ASTM A36
MISCELLANEOUS PLATES	ASTM A36
MACHINE BOLTS (M.B.)	ASTM A307
THREADED RODS	ASTM A36
HSS TUBE STEEL	ASTM A500 GRADE B
WELDING ELECTRODES	E70XX

- 4.2.1. DO NOT USE E70-T4 OR NS-3M ELECTRODES.
- 4.3. ONLY STEEL SURFACES EXPOSED TO WEATHER REQUIRE SHOP PAINTING. ALL STEEL SURFACES REQUIRING PAINTING SHALL BE THOROUGHLY CLEANED. ONE COAT OF RUST INHIBITIVE PAINT CONFORMING TO FEDERAL SPECIFICATION TT-P-86, TYPE II SHALL BE EVENLY AND COMPLETELY APPLIED. ANY CHIPS OR ABRASIONS SHALL BE TOUCHED UP IN THE SHOP. AFTER ERECTION APPLY ANOTHER COAT USING THE SAME PAINT.
- 4.4. USE HOT DIPPED GALVANIZED STEEL IN COMPLIANCE WITH ASTM A153, CLASS C OR D. REPAIR MINOR FIELD DAMAGE TO GALVANIZING WITH GALVANIZING PAINT.
5. EXPANSION ANCHORS
- 5.1. EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KWIK BOLT TZ PER ESR-1917 BY HILTI, INC. OR APPROVED EQUAL.
- 5.2. ALL SUBSTITUTIONS AS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO USE TO BE CONSIDERED FOR APPROVAL AS AN EQUAL PRODUCT.
- 5.3. NOTIFY ENGINEER PRIOR TO STARTING WORK TO ARRANGE FOR SPECIAL INSPECTION. TWENTY FIVE PERCENT (25%) OF ALL BOLTS AND DOWELS ARE REQUIRED TO BE VISUALLY INSPECTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE INSTALLED BY THE SAME TRADE AND NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL FREQUENCY. DURING THE INSTALLATION, THE SPECIAL INSPECTOR SHALL BE AT THE JOBSITE PERIODICALLY VERIFYING THE INSTALLATION IS IN COMPLIANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE ESR REPORT WHICH INCLUDES BUT IS NOT LIMITED TO HOLE CLEANING PROCEDURE, HOLE DIMENSIONS, ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING, ANCHOR EMBEDMENT, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, CONCRETE THICKNESS, EDGE DISTANCES, AND TIGHTENING TORQUE.
- 5.4. DIMENSIONS FOR HILTI KWIK BOLT TZ ARE AS FOLLOWS:

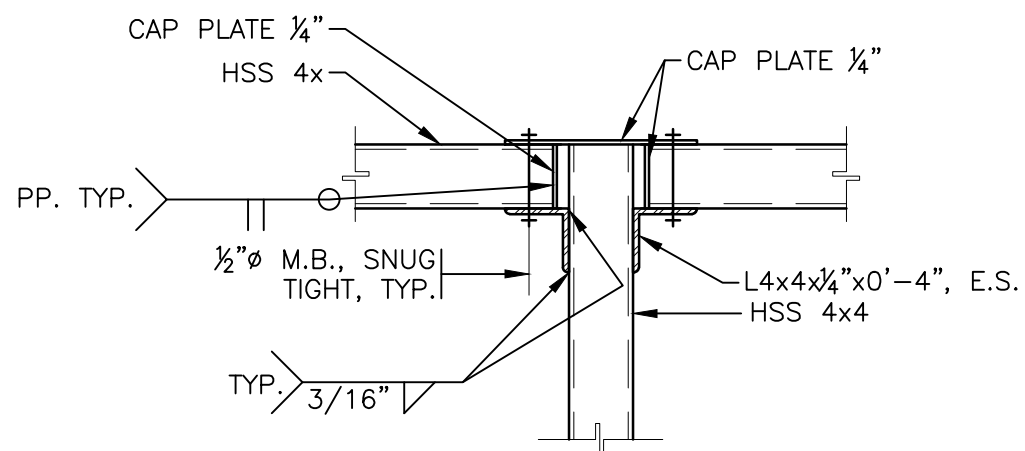


6. INSTALLATION OF ADHESIVE ANCHORS, EXPANSION ANCHORS AND POWER DRIVEN PINS

- 6.1. EXERCISE CARE AND CAUTION TO AVOID DAMAGING OR CUTTING EXISTING REINFORCING BARS WHEN INSTALLING DRILLED IN ANCHORS OR POWER DRIVEN PINS INTO EXISTING NON-PRESTRESSED REINFORCED CONCRETE. WHEN INSTALLING SUCH ANCHORS OR PINS INTO EXISTING PRESTRESSED CONCRETE OR PRE/POST TENSIONED CONCRETE LOCATE THE PRESTRESSED TENDONS WITH A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXTREME CARE AND CAUTION SHALL BE TAKEN TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. A MINIMUM CLEARANCE OF ONE INCH SHALL BE MAINTAINED BETWEEN THE EXISTING REINFORCING TENDONS AND THE NEW DRILLED IN ANCHOR AND/OR PIN.

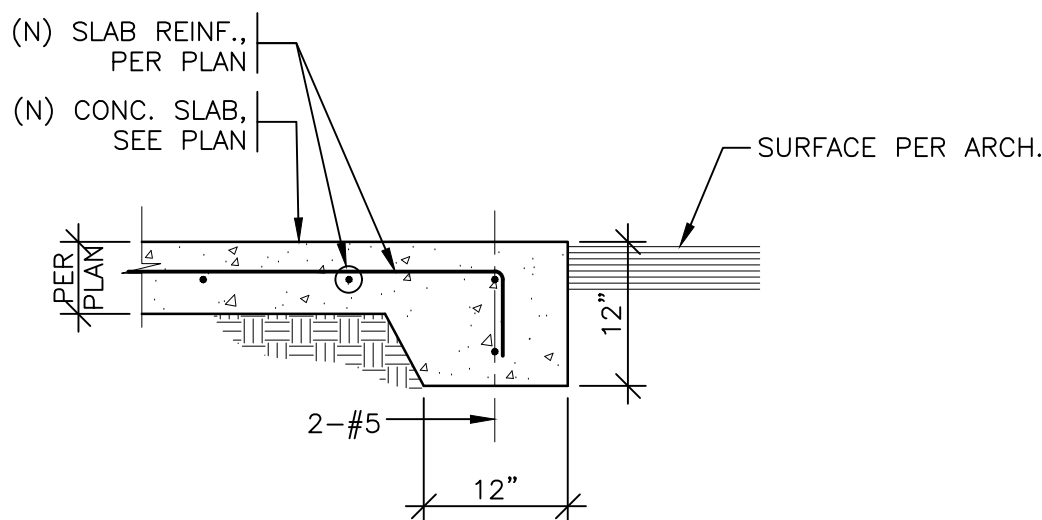
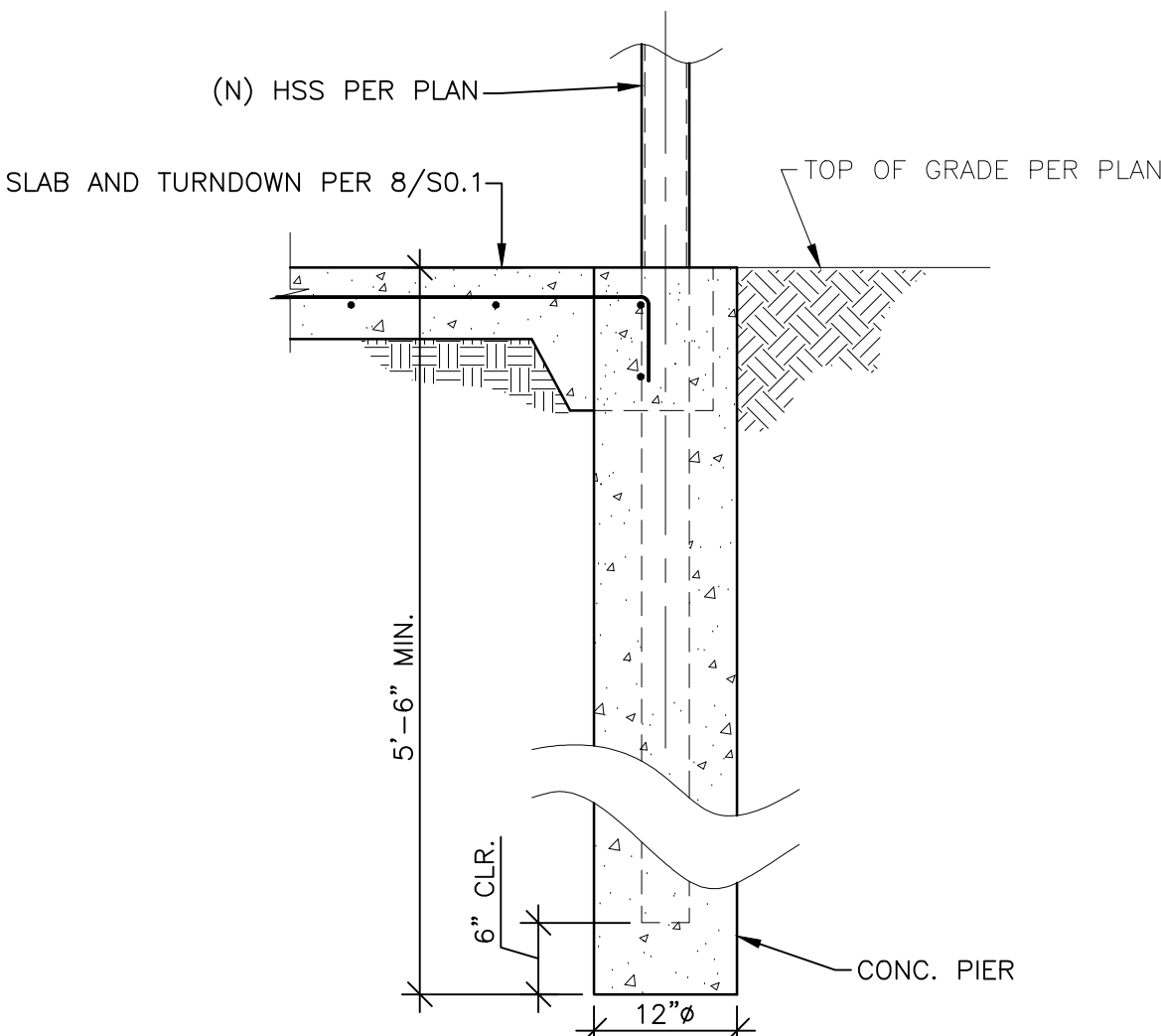
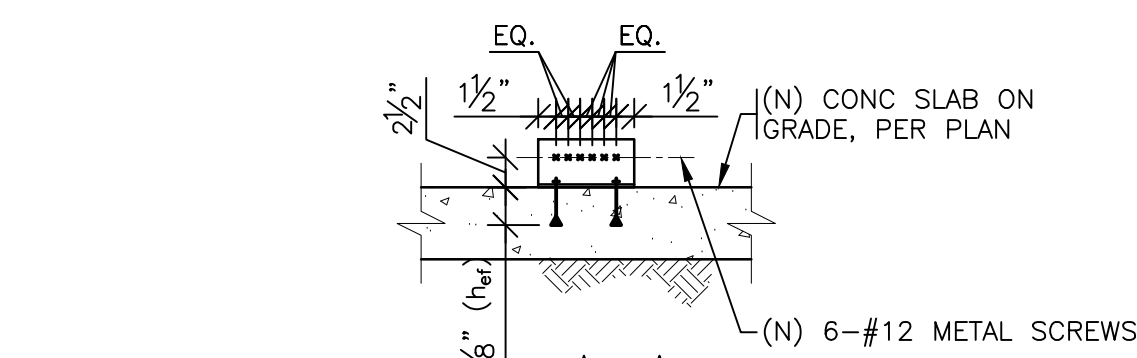
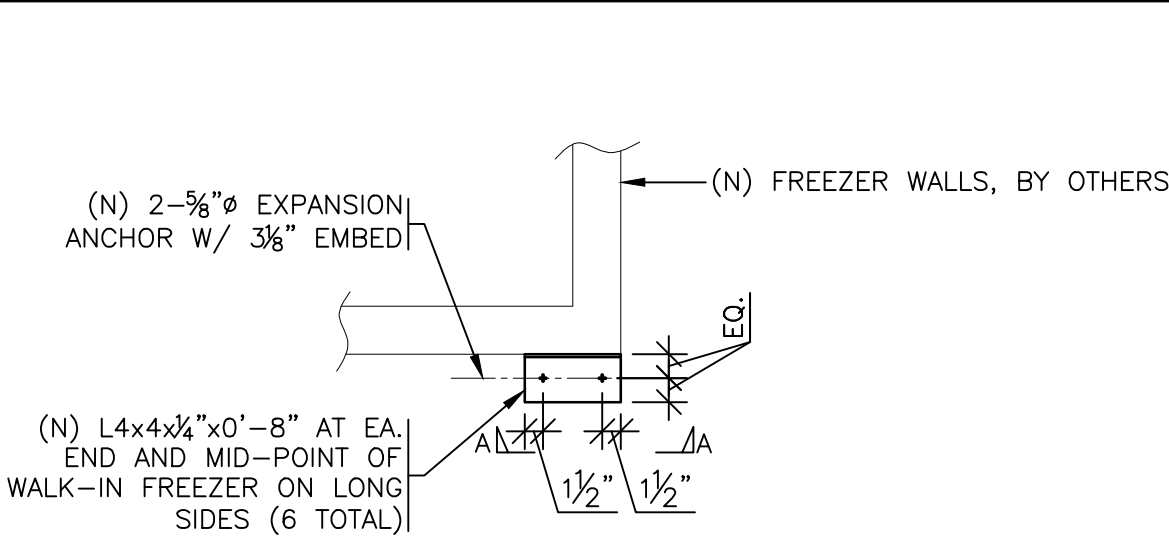


DETAIL B (HSS4x4 AT CORNER)



DETAIL A (HSS4x4 BOTH SIDES)

SCALE: 1" = 1'-0"



REINFORCEMENT BAR LAP SPICE (L <sub>s</sub> ) FOR NORMAL WEIGHT CONCRETE (CLASS "B" SPLICE)					
LOCATION	CONC. F'c (psi)	STEEL Fy (ksi)	BAR SIZE		L <sub>s</sub> = LAP SPLICE (in)
			4	5	
TOP	3000	60	37	47	
OTHER	3000	60	29	36	

- NOTES:
1. LAP LENGTHS SHOWN IN THE SCHEDULE ARE CLASS B LAP SPICES PER THE ACI 318-14, 25.5 FOR ASTM 615, GRADE 60 REBAR.
2. LAP LENGTH, L<sub>s</sub>, IS BASED ON CASE 1 REINFORCEMENT BAR DEVELOPMENT LENGTH l<sub>d</sub> PER ACI 318-14, 25.4.2.2. FOR OTHER CASES, REFER TO NOTES ON THE DEVELOPMENT LENGTH TABLE.
3. L<sub>s</sub> SHALL BE INCREASED BY 33% FOR LIGHT WEIGHT CONCRETE.

6

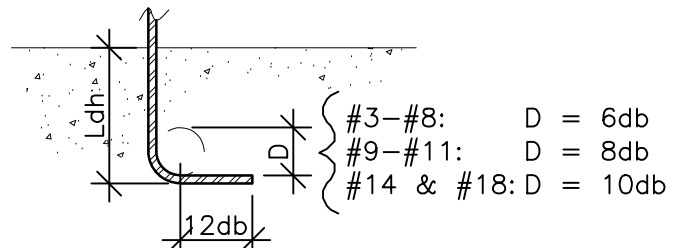
REINFORCEMENT BAR DEVELOPMENT LENGTH (l <sub>d</sub> ) FOR NORMAL WEIGHT CONCRETE					
LOCATION	CONC. F'c (psi)	STEEL Fy (ksi)	BAR SIZE		l <sub>d</sub> = DEVELOPMENT LENGTH (in)
			4	5	
TOP	3000	60	29	36	
OTHER	3000	60	22	28	

- NOTES:
1. DEVELOPMENT LENGTHS SHOWN IN THE SCHEDULE ARE CASE 1 LENGTHS PER ACI 318-14, 25.4.2.2 FOR ASTM 615, GRADE 60 REBAR. THE MINIMUM CLEAR CONCRETE COVER MUST BE GREATER THAN d<sub>b</sub> AND THE CLEAR SPACING OF BARS MUST BE GREATER THAN 2d<sub>b</sub> WHERE "d<sub>b</sub>" IS THE NOMINAL BAR DIAMETER.
2. BARS NOT MEETING CASE 1 REQUIREMENTS SHALL BE PER ACI 318-14 SECTION 25.4.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR.
4. DEVELOPMENT LENGTH SHALL BE INCREASED BY 33% FOR LIGHT WEIGHT CONCRETE.

7

REINFORCEMENT BAR DEVELOPMENT (L <sub>dh</sub> ) FOR STANDARD HOOKS IN NORMAL WEIGHT CONCRETE GENERAL USE (NOT FOR FRAME JOINTS)					
CONC. F'c (psi)	STEEL Fy (ksi)	BAR SIZE		L <sub>dh</sub> = DEVELOPMENT LENGTH (in)	
		4	5		
3000	60	8	10		

- NOTES:
1. SIDE COVER MUST BE GREATER THAN OR EQUAL TO 2½"
2. END COVER MUST BE GREATER THAN OR EQUAL TO 2"
3. HOOK DEVELOPMENT LENGTH SHALL BE INCREASED BY 33% FOR LIGHT WEIGHT CONCRETE.
4. TABLE APPLIES TO ASTM 615, GRADE 60 REBAR.



STANDARD 90° END HOOK

NOTE: 180° AND 135° HOOKS SIMILAR

8

TYPICAL EXPANSION BOLT TEST VALUES

TYPICAL EXPANSION BOLTS ARE HILTI KWIK-BOLTS TZ CS

DIAM.	MIN. EMBEDMENT	ALLOWABLE SHEAR	ALLOWABLE TENSION	TENSION TEST VALUE
¾"	3½"	5521#	1922#	3845#

- NOTES:
- ALLOWABLE LOAD WITH F'c=3000 PSI (NORMAL WEIGHT CONCRETE)
- LOADS FROM HILTI PROFIS PROGRAM WHICH REFERENCES ICC-ES ESR-1917

1

2

3

4

DSA STAMP

BCA

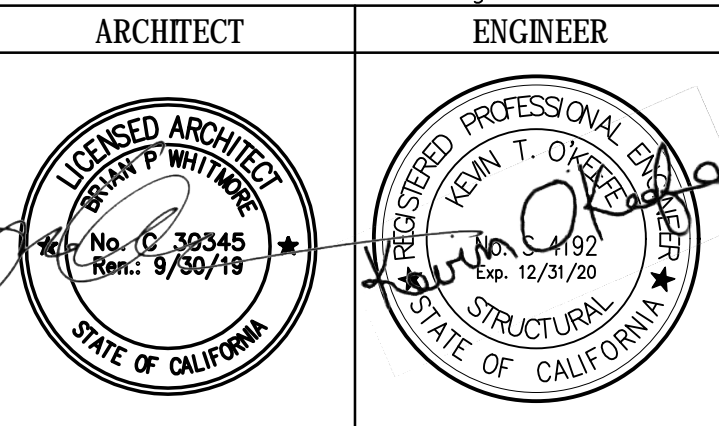
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
<input checked="" type="radio"/> DSA PLAN CHECK	05.13.19
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

KEY PLAN

FORTUNA ELEMENTARY  
SCHOOL DISTRICT  
500 9th STREET  
FORTUNA, CA 95540

PROJECT PHASE

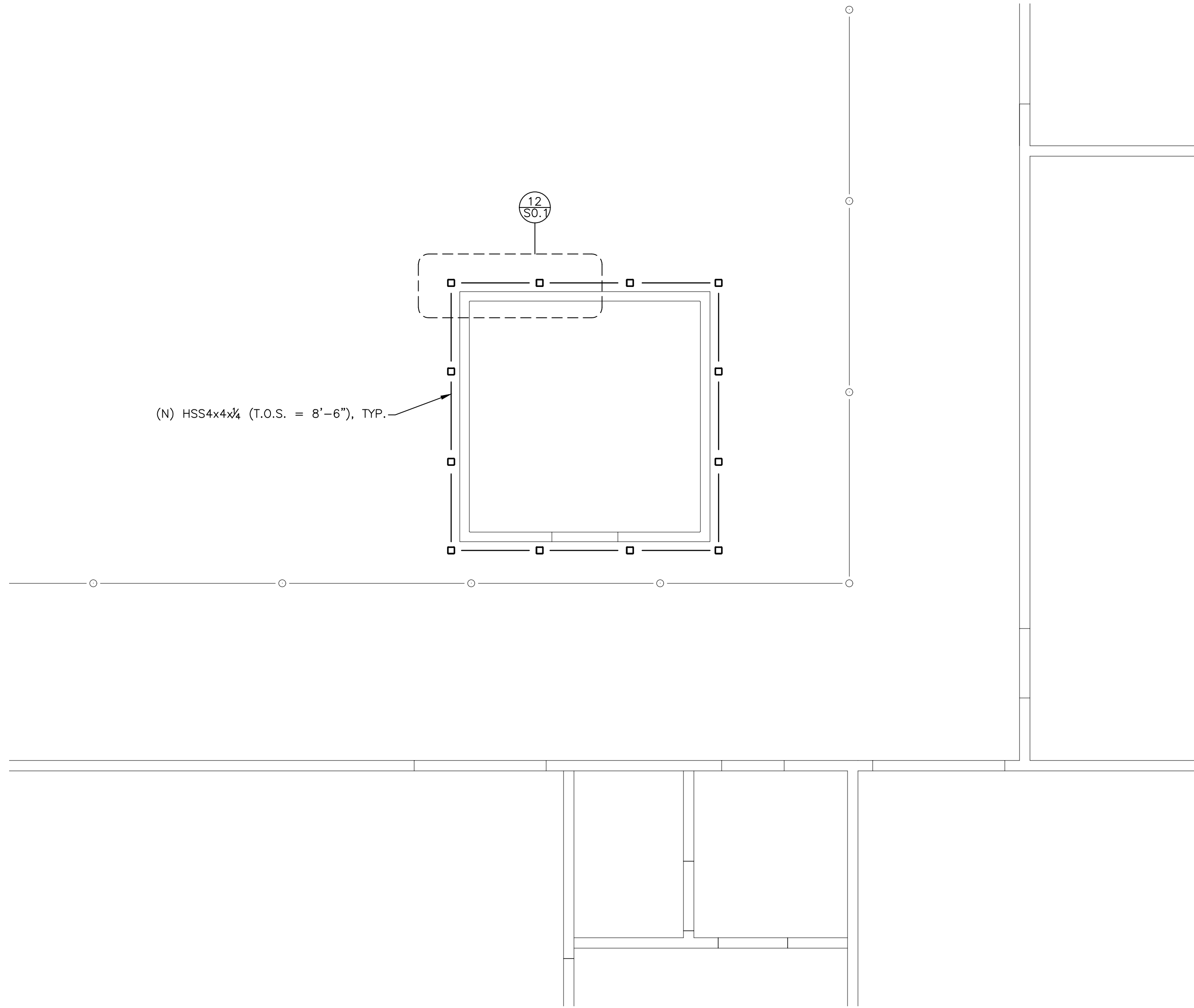
WALK-IN FREEZER  
REPLACEMENT  
SOUTH FORTUNA  
ELEMENTARY SCHOOL  
2089 NEWBURG ROAD  
FORTUNA, CA 95540

GENERAL NOTES AND  
DETAILS

Date	Drawing Number
05.13.19	S0.1
Scale	¾" = 1'-0", U.O.N.
Project Number	201939

20

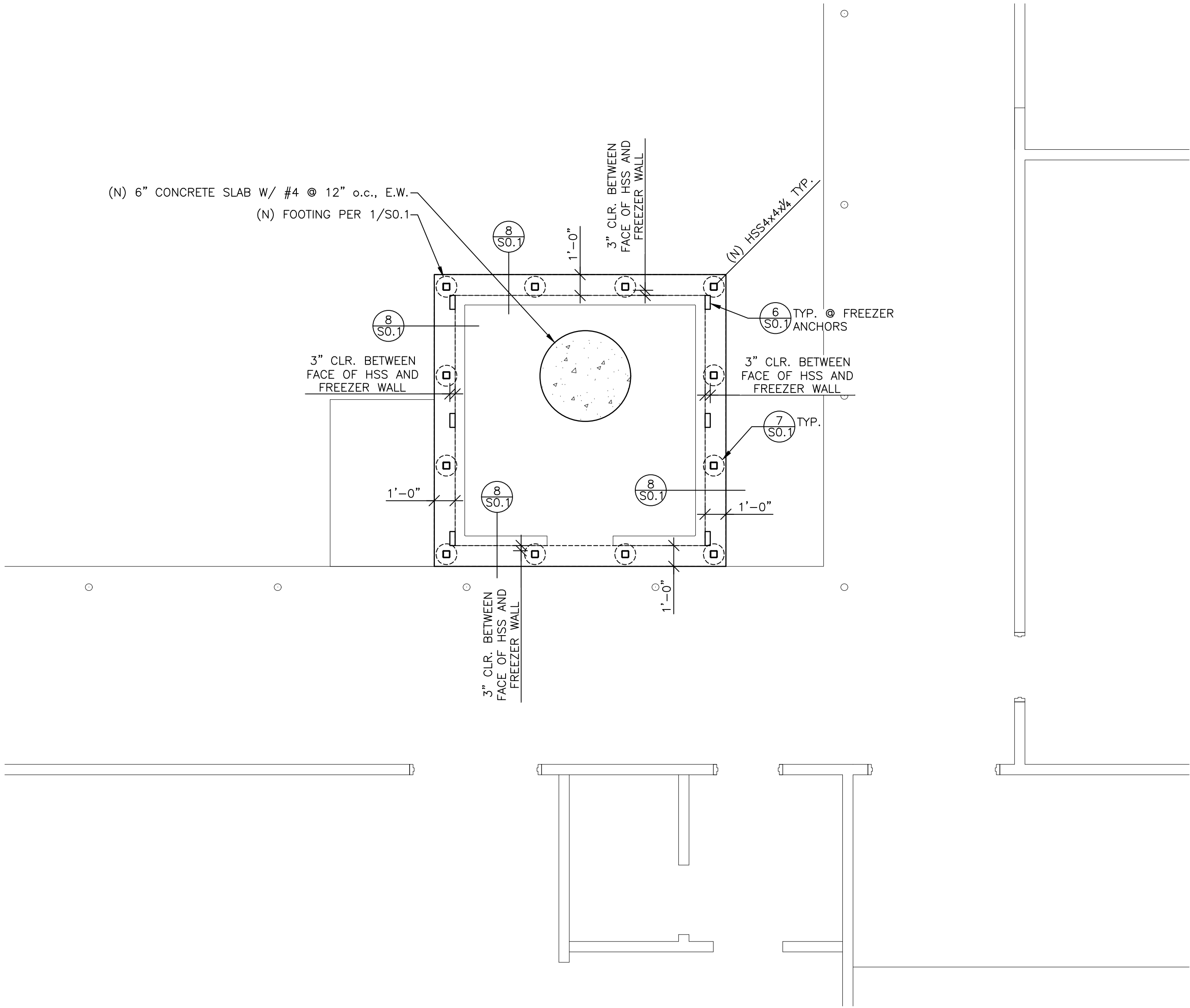




FREEZER ROOF FRAMING PLAN

NOTES:  
SEE SO.1 FOR GENERAL NOTES.

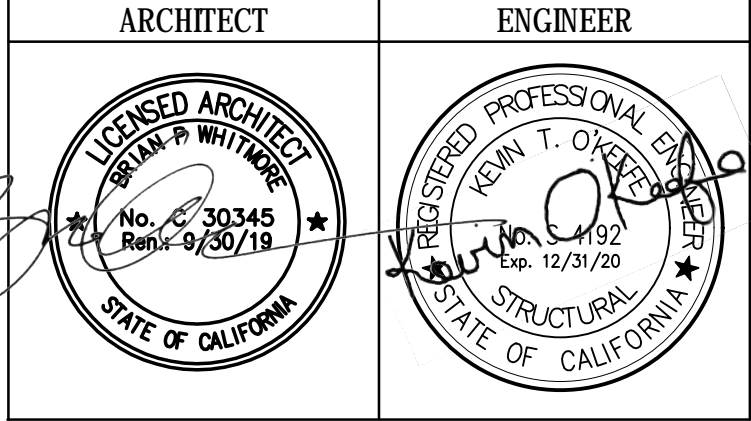
SCALE: 1/4" = 1'-0"



FREEZER FOUNDATION PLAN

NOTES:  
SEE SO.1 FOR GENERAL NOTES.

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



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NO.	REMARKS	DATE

DRAWING STATUS

DATE 05.13.19

☒ DSA PLAN CHECK

☐ DSA BACK CHECK

☐ BIDDING

☐ CONSTRUCTION

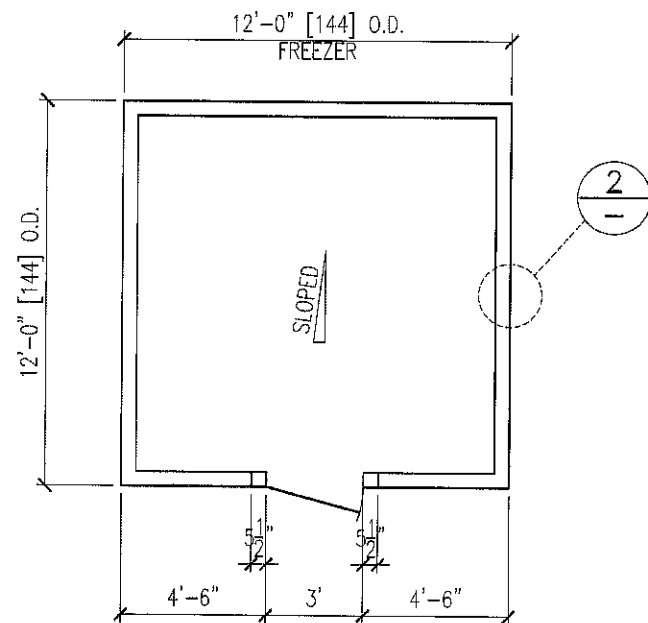
KEY PLAN

FORTUNA ELEMENTARY  
SCHOOL DISTRICT  
500 9th STREET  
FORTUNA, CA 95540

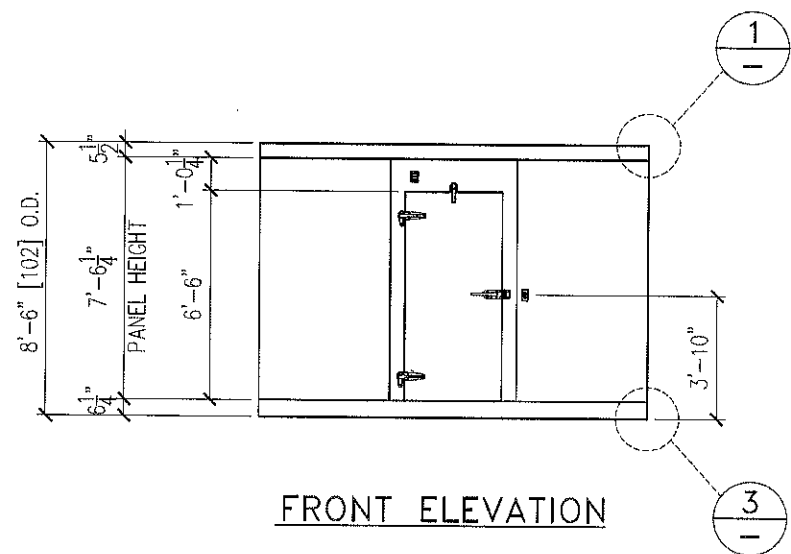
PROJECT PHASE

WALK-IN FREEZER  
REPLACEMENT  
SOUTH FORTUNA  
ELEMENTARY SCHOOL  
2089 NEWBURG ROAD  
FORTUNA, CA 95540

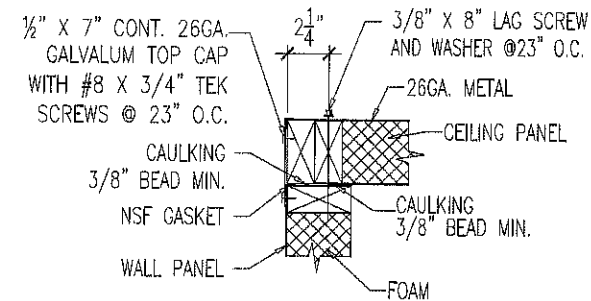
PLANS



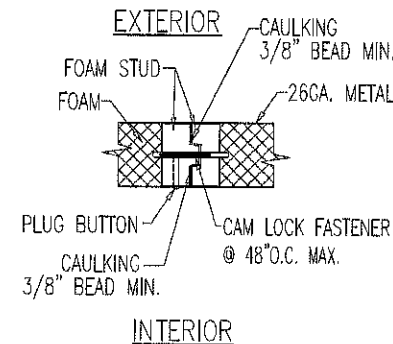
PLAN VIEW



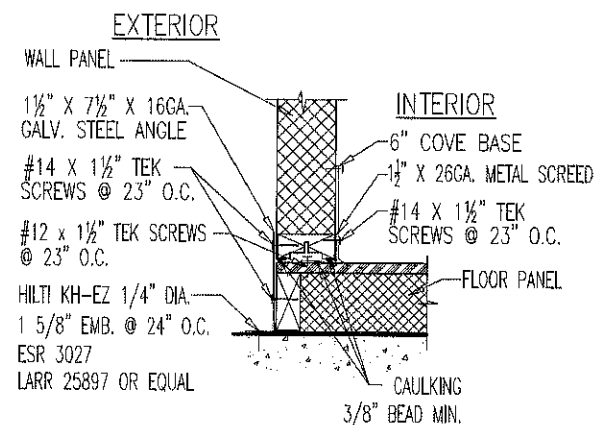
FRONT ELEVATION



1 CEILING TO WALL



2 PANEL TO PANEL



3 WALL TO PRE-FAB FLOOR

## SPECIFICATIONS

### CONSTRUCTION:

WALL: 5 1/2" FOAM-FRAME, POLYURETHANE, F-I-P (R-45)  
 CEILING: 5 1/2" FOAM-FRAME, POLYURETHANE, F-I-P (R-45)  
 FLOOR: 5 1/2" FOAM-FRAME, POLYURETHANE, F-I-P (R-45)  
 ONE (1) LAYER OF 3/4" PLYWOOD (BUILT-IN) ON TOP

### FINISH:

WALL: 26GA. STUCCO-GALVALUM INTERIOR  
 26GA. STUCCO-WHITE EXTERIOR  
 CEILING: 26GA. STUCCO-GALVALUM INTERIOR  
 26GA. STUCCO-GALVALUM EXTERIOR  
 FLOOR: .050" SMOOTH-ALUM. INTERIOR W/ NON-SKID STRIP  
 26GA. STUCCO-GALVALUM EXTERIOR

### ACCESSORIES:

- 1 EA. - 36" X 78" HINGED FREEZER DOOR  
 SELF CLOSING  
 HEATED FRAME, BELLY HEATER & HEATED SWEEP  
 KEY LOCKING HANDLE  
 22GA. SST. JAMB (MAGNETIC)
- 2 EA. - KASON LED LIGHT FIXTURE #1808
- 1 EA. - LIGHT SWITCH W/ DIGITAL TM.
- 1 EA. - HEATED AIR VENT #1825
- 1 LOT - 16GA. FLOOR ANGLE EXTERIOR
- 1 LOT - DUROLAST ROOF MATERIAL OVER TAPERED FOAM
- 1 EA. - 36" X 84" (6" STRIP), 6602LT STRIP CURTAIN
- 1 EA. - WEATHERHOOD

NOTE: LAG DOWN CEILING  
 THE CEILING IS DESIGNED FOR "NO STORAGE"

SECTION 2603.4.1.2 COMPLIANCE DATA	
COMPOSITE PANEL- SURFACE BURNING CHARACTERISTICS:	
FLAME SPREAD:	20
SMOKE DEVELOPED:	250-400
CORE FLASH IGNITION TEMPERATURE:	896°F
CORE SELF-IGNITION TEMPERATURE:	914°F
VALUES ARE REPORTED BY UNDERWRITERS LABORATORIES FILE NO. 25285 AND SV18788	
SPRINKLER SYSTEMS ARE UNDER SEPARATE PERMIT	

SUBMITTAL DRAWING  
 MUST BE SIGNED & RETURNED BY \_\_\_\_\_  
 TO BE DELIVERED ON \_\_\_\_\_

☐ NOT APPROVED - REVISE AND RESUBMIT  
☐ APPROVED AS NOTED - MANUFACTURE AS NOTED  
☐ APPROVED AS IS - MANUFACTURE AS DRAWN

DELIVERY DATE: \_\_\_\_\_

DATE \_\_\_\_\_ SIGN \_\_\_\_\_

REV.	DATE	DESCRIPTION	REV. BY
<div> <p>420 E. ARROW HIGHWAY SAN DIMAS, CA 91773 TEL: (909) 582-1111 FAX: (909) 599-8225</p> </div> <div> <p>1005 SIGMAN ROAD NE CONYERS, GA. 30013 TEL: (678) 712-8856</p> </div>			
JOB: FORTUNA ELEMENTARY FORTUNA, CA		CUSTOMER: DESIGN AIR HEATING & SHEET METAL	
DRAWN BY: PHAT		DRAWING NO.: 19-0173-1	
DATE: 01/30/19		SHEET 1 OF 1	
SCALE: 1/4"=1'-0"		OUTDOOR FREEZER	

CUSTOM COOLER PRODUCTS COMPLY WITH THE "R" VALUE REQUIREMENTS OF SECTION 340 OF THE ENERGY POLICY AND CONSERVATION ACT (42 U.S.C. 6311) AND CALIFORNIA TITLE 20 AND TITLE 24.

FOR REFERENCE ONLY