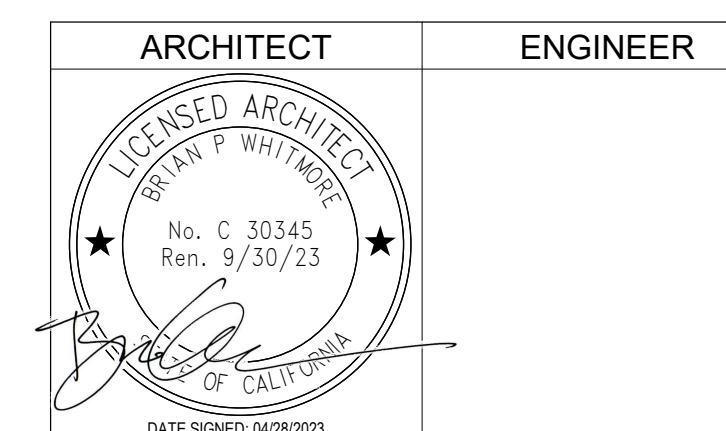




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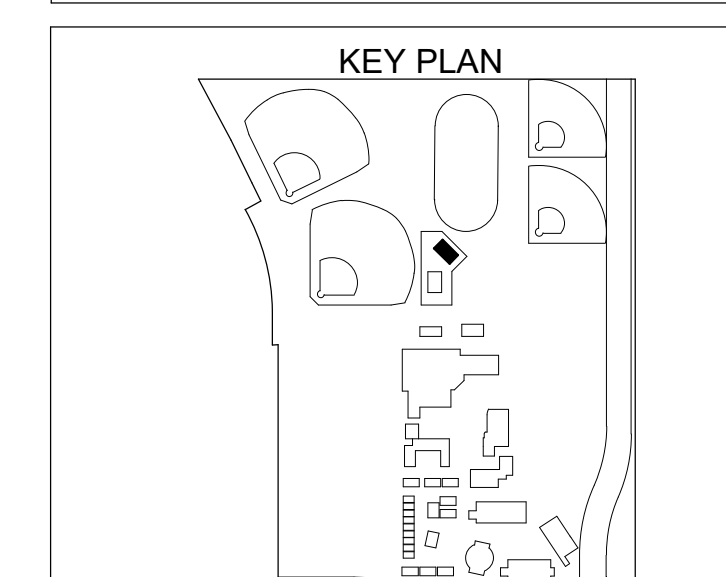
NUSD Natomas HS
BOILER/DHW REPLACEMENT
3301 FONG RANCH ROAD
SACRAMENTO, CA 95834
Natomas Unified School District



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Table with 3 columns: NO., REMARKS, DATE. Revision history section.

DRAWING STATUS
[] DSA PLAN CHECK
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[] CONSTRUCTION



Natomas Unified School District
PROJECT STATUS

NUSD Natomas HS
BOILER/DHW REPLACEMENT
3301 FONG RANCH ROAD
SACRAMENTO, CA 95834

COVER SHEET

Table with 2 columns: Date, Project Number, Application Number, Drawing Number. Values: 04/28/2023, 22033.1, Application Number, Drawing Number A0.1

Main project information table with columns: DEFERRED APPROVALS, PROJECT DESCRIPTION, DRAWING INDEX, PROJECT DIRECTORY, VICINITY MAP. Includes drawing index list, client info, and project status.

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DRAWING DISCIPLINE PREFIX

- A. ARCHITECTURAL
- C. CIVIL
- D. INTERIOR DESIGN / FURNITURE
- E. ELECTRICAL
- FA. FIRE ALARM
- FP. FIRE PROTECTION / SPRINKLER SYSTEM
- FS. FOOD SERVICE
- L. LANDSCAPING
- M. MECHANICAL
- P. PLUMBING
- S. STRUCTURAL
- T. TECHNOLOGY

DRAWING INDEX CODE

- A0. GENERAL INFORMATION
- A1. SITE PLANS
- A2. FLOOR PLANS
- A3. REFLECTED CEILING PLANS
- A4. ROOF PLANS
- A5. EXTERIOR ELEVATIONS
- A6. BUILDING SECTIONS
- A7. ENLARGED PLANS
- A8. INTERIOR ELEVATIONS
- A9. SCHEDULES
- A10. CONSTRUCTION DETAILS

DETAIL DRAWING CODE

A10.8.4

↑ DRAWING NUMBER
 ↑ DIVISION NUMBER PREFIX
 ↑ DRAWING INDEX NUMBER

THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 48 DIVISION GROUPING SYSTEM OF MASTERFORMAT AS PUBLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI) AND SHALL NOT BE SOLELY REPRESENTATIVE OF REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS.

IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

DIVISION NUMBER CODE

- MASTERFORMAT NUMBERS AND TITLES AS PUBLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI).
- DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS
 - DIVISION 01 GENERAL REQUIREMENTS
 - DIVISION 02 EXISTING CONDITIONS
 - DIVISION 03 CONCRETE
 - DIVISION 04 MASONRY
 - DIVISION 05 METALS
 - DIVISION 06 WOODS, PLASTICS, AND COMPOSITES
 - DIVISION 07 THERMAL AND MOISTURE PROTECTION
 - DIVISION 08 OPENINGS
 - DIVISION 09 FINISHES
 - DIVISION 10 SPECIALTIES
 - DIVISION 11 EQUIPMENT
 - DIVISION 12 FURNISHINGS
 - DIVISION 13 SPECIAL CONSTRUCTION
 - DIVISION 14 CONVEYING EQUIPMENT
 - DIVISION 21 FIRE SUPPRESSION
 - DIVISION 22 PLUMBING
 - DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)
 - DIVISION 25 INTEGRATED AUTOMATION
 - DIVISION 26 ELECTRICAL
 - DIVISION 27 COMMUNICATIONS
 - DIVISION 28 ELECTRONIC SAFETY AND SECURITY
 - DIVISION 31 EARTHWORK
 - DIVISION 32 EXTERIOR IMPROVEMENTS
 - DIVISION 33 UTILITIES
 - DIVISION 34 TRANSPORTATION
 - DIVISION 35 WATERWAY AND MARINE CONSTRUCTION
 - DIVISION 40 PROCESS INTERCONNECTIONS
 - DIVISION 41 MATERIAL PROCESSING AND HANDLING EQUIPMENT
 - DIVISION 42 PROCESS HEATING, COOLING, AND DRYING EQUIPMENT
 - DIVISION 43 PROCESS GAS AND LIQUID HANDLING, PURIFICATION, AND STORAGE
 - DIVISION 44 POLLUTION AND WASTE CONTROL EQUIPMENT
 - DIVISION 45 INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT
 - DIVISION 46 WATER AND WASTEWATER EQUIPMENT
 - DIVISION 48 ELECTRICAL POWER GENERATION

GENERAL NOTES

- PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE CONDITIONS UNDER WHICH HE 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. BIDDERS SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS, REQUIREING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
- THERE WILL BE NO SUBSTITUTION FOR SPECIFIED ITEMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE NOTED. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN ACCORDANCE WITH GENERAL CONDITIONS & DIVISION 1.
- THE GENERAL BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED BY GOVERNING AGENCIES IN ORDER TO PERFORM THE WORK.
- THE FINAL LOCATION OF ALL ELECTRICAL AND SIGNAL EQUIPMENT, PANEL BOARDS, FIXTURES, ETC., SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
- DEFINITIONS
 - A. "TYPICAL" MEANS IDENTICAL FOR ALL CONDITIONS, UNLESS OTHERWISE NOTED.
 - B. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATIONS.
 - C. "PROVIDE" MEANS TO FURNISH AND INSTALL.
 - D. "FURNISH" MEANS TO FURNISH AND OTHERS WILL INSTALL.
- DIMENSIONING RULES
 - A. ALL HORIZONTAL DIMENSIONS SHALL BE TO FACE OF STUD OR TO CENTERLINE OF COLUMN GRID LINE, U.O.N
 - B. DIMENSIONS NOTED "CLEAR", "CLR", OR "MINIMUM" MUST BE PRECISELY MAINTAINED.
 - C. DIMENSIONS CAN NOT BE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.
 - D. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB UNLESS OTHERWISE NOTED.
 - E. DO NOT SCALE DRAWINGS. IF ANY ITEM OF WORK CANNOT BE LOCATED, DO NOT PROCEED WITH THE WORK WITHOUT THE ARCHITECT'S APPROVAL.
 - F. DIMENSIONS MARKED "V.I.F." OR "VERIFY" SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 - G. VERIFY ALL ROUGH OPENING DIMENSIONS FOR FABRICATED ITEMS WITH THE MANUFACTURER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- PROVIDE REQUIRED BACKING, BLOCKING, AND BRACING FOR ALL WALL-MOUNTED FIXTURES, ACCESSORIES AND EQUIPMENT.
- VERIFY AND COORDINATE WALLS THAT MAY REQUIRE NON-TYPICAL THICKNESS OR FRAMING DUE TO ELECTRICAL, MECHANICAL, PLUMBING, STRUCTURAL, AND/OR EQUIPMENT REQUIREMENTS.
- ALL GLAZING SHALL CONFORM TO FEDERAL GLAZING REGULATIONS AND CHAPTER 24, CBC.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER MATERIALS, DEBRIS, TOOLS AND EQUIPMENT INVOLVED IN HIS OPERATIONS AT THE CONCLUSION OF THE INSTALLATION. HE SHALL LEAVE ALL AREAS CLEAN AND FREE FROM DUST.
- HAZARDOUS MATERIALS: THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, DISPOSAL, OF OR EXPOSURE OF PERSONS TO ASBESTOS OR HAZARDOUS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. PROFESSIONAL SERVICES RELATED OR IN ANY WAY CONNECTED WITH THE INVESTIGATION, DETECTION, ABATEMENT, REPLACEMENT, USE, SPECIFICATION OF PRODUCTS, OF PRODUCTS, MATERIALS, OR PROCESSES CONTAINING ASBESTOS OR HAZARDOUS OR TOXIC MATERIALS ARE BEYOND THE SCOPE OF THIS AGREEMENT.
- THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWING ARE APPROXIMATE ROUTING LOCATION AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL THE EXISTING UNDERGROUND UTILITIES.
- 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.
- ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIRWATER TIGHT. ALL INTERIOR PENETRATIONS SHALL BE SEALED TO PROVIDE A PROFESSIONAL AND FINISHED APPEARANCE.
- 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 INCREASE IN CONTRACT PRICE OR TIME. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
- ALL WORK SHALL CONFORM TO CALIFORNIA CODES, TRADE STANDARDS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT WITH THIS WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS ATTRIBUTED TO RAIN WATER DAMAGE DURING THE DURATION OF THIS PROJECT.
- 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.
- MAINTAIN EXISTING PEDESTRIAN ACCESS ALONG EXISTING ADJACENT STREETS.
- ALL PUBLIC IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST ADOPTED CITY/COUNTY STANDARDS.
- ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
- 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.
- 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. 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 ARCHITECT FOR REVIEW AND DECISION.
- PROVIDE ACCESS DOORS REQUIRED FOR ACCESS TO CONCEALED MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT.
- ALL NOTED WORK IS UNDERSTOOD TO BE NEW, UNLESS LABELED AS "(E)" OR "EXISTING".

SUPPLEMENTAL GENERAL NOTES

- THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION.
- LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERFERING 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 UNANTICIPATED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONNECTION WITH THE EXECUTION OF THIS WORK.
- THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF STUDIO W ARCHITECTS, AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF STUDIO W ARCHITECTS.
- EACH BIDDER SHALL POSSESS AT THE TIME OF BID, A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.
- FIRE SAFETY DURING CONSTRUCTION & DEMOLITION:
 - A. GENERAL FIRE SAFETY DURING CONSTRUCTION & DEMOLITION SHALL COMPLY WITH 2022 CALIFORNIA FIRE CODE (CFC) CH. 33 (PART 9, TITLE 24 CCR)
 - B. CONSTRUCTION SAFEGUARDS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC 3302.
 - C. DEMOLITION: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC 3303.
 - D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES PER CBC 3308.1.
 - E. MEANS OF EGRESS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC 3310.
 - F. WATER SUPPLY: APPROVED WATER SUPPLY SHALL BE MADE AVAILABLE IN ACCORDANCE WITH CBC 3313.
 - 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 PER CBC 3314.
- 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 FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED IN NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6).
 - A. THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDINGS WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED THEY ARE BUILT IN ACCORDANCE 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.
 - B. ENVELOPE MANDATORY MEASURES:
 - A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
 - 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
 - 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.
 - 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).
 - 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(9)(1).
 - 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 (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.
 - G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).
- PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:
 - A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
 - B. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
 - C. FOR SLEEVE INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.
 - D. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
 - E. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: <https://www.energy.ca.gov/resources-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance>.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

EMERGENCY RESPONDER RADIO COVERAGE

ARCHITECT OF RECORD (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN AND EQUIPMENT SPECIFICATIONS AND TESTING AND ACCEPTANCE CRITERIA. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL / AOR TO SUBMIT PLANS AND REQUESTED DOCUMENTATION, AND APPLICABLE FEES, TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, AND PROOF OF TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT. THE PROJECT INSPECTORS SHALL VERIFY THAT DOCUMENTATION IS PROVIDED TO THE SCHOOL DISTRICTS.

SUPPLEMENTAL GENERAL NOTES

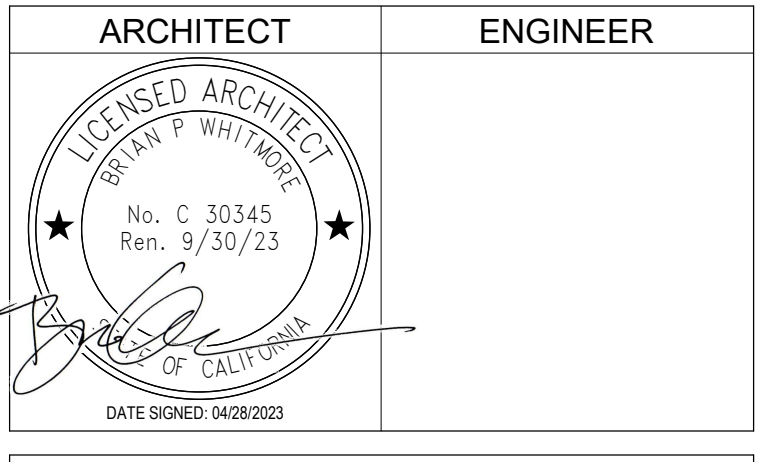
- THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP-IN ANCHORS ARE ONLY TO BE TESTED WITH THIS METHOD.
 - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT, ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.
- TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
- ALL ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULL-OUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT LISTED BELOW UNDER TEST VALUES TABLE) PROOF TESTED IN TENSION OR TORQUE LOADS AS LISTED IN THE TABLE BELOW. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1910A.5, "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE."
- ALL BOLTS MUST HAVE AN ENGINEERING EVALUATION REPORT THAT IS ACCEPTABLE UNDER THE REQUIREMENTS OF DSA INTERPRETATION OF REGULATIONS IR A-5.
- ALL ANCHOR BOLTS OF THE EXPANSION TYPE SHALL BE ONE OF THE FOLLOWING:
 - HILTI KB-T22 ANCHOR ICC NO. ESR 4266

MINIMUM TEST VALUES			
NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE			
ANCHOR	WEDGE		
	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EFFECTIVE MIN. EMBEDMENT
3/8	6,490	30	1 1/2" - 2 1/2"
1/2	11,240	50	1 1/2" - 3 1/4"
5/8	17,535	40	2 3/4" - 4"
3/4	25,335	110	3 1/4" - 4 3/4"

- POWDER-DRIVEN CONCRETE FASTENERS:
 - A. GENERAL USE OF POWDER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILING, DUCT WORK, CONDUIT. ALLOWABLE LOADS: IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR OR FIELD ENGINEER.
 - C. TESTING: THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS, EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.
 - D. ALL POWDER DRIVEN CONCRETE FASTENERS SHALL BE ONE OF THE FOLLOWING: HILTI, INC.
 - 0.145 DIA. PAF X-CR INTO STEEL BASE MATERIAL - ICC NO. ESR 1663
 - 0.138 DIA. PAF X-CR INTO CONCRETE BASE MATERIAL - ICC NO. ESR 1663



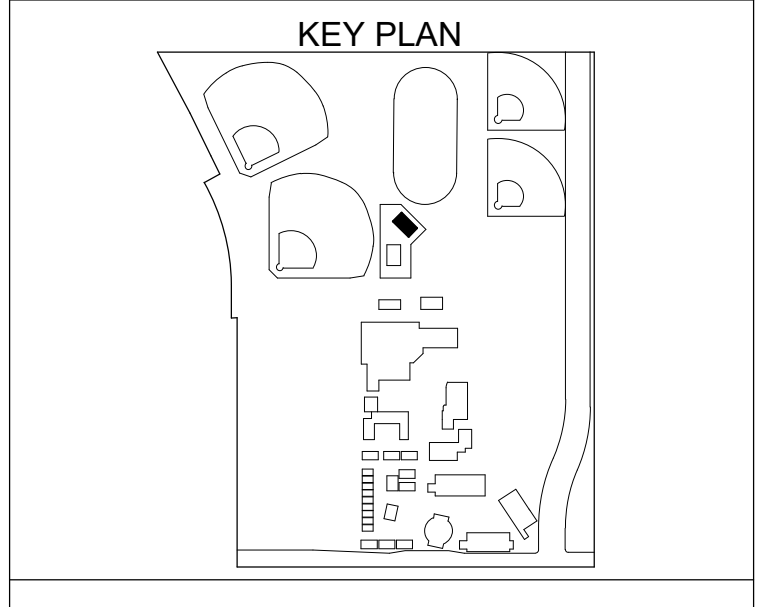
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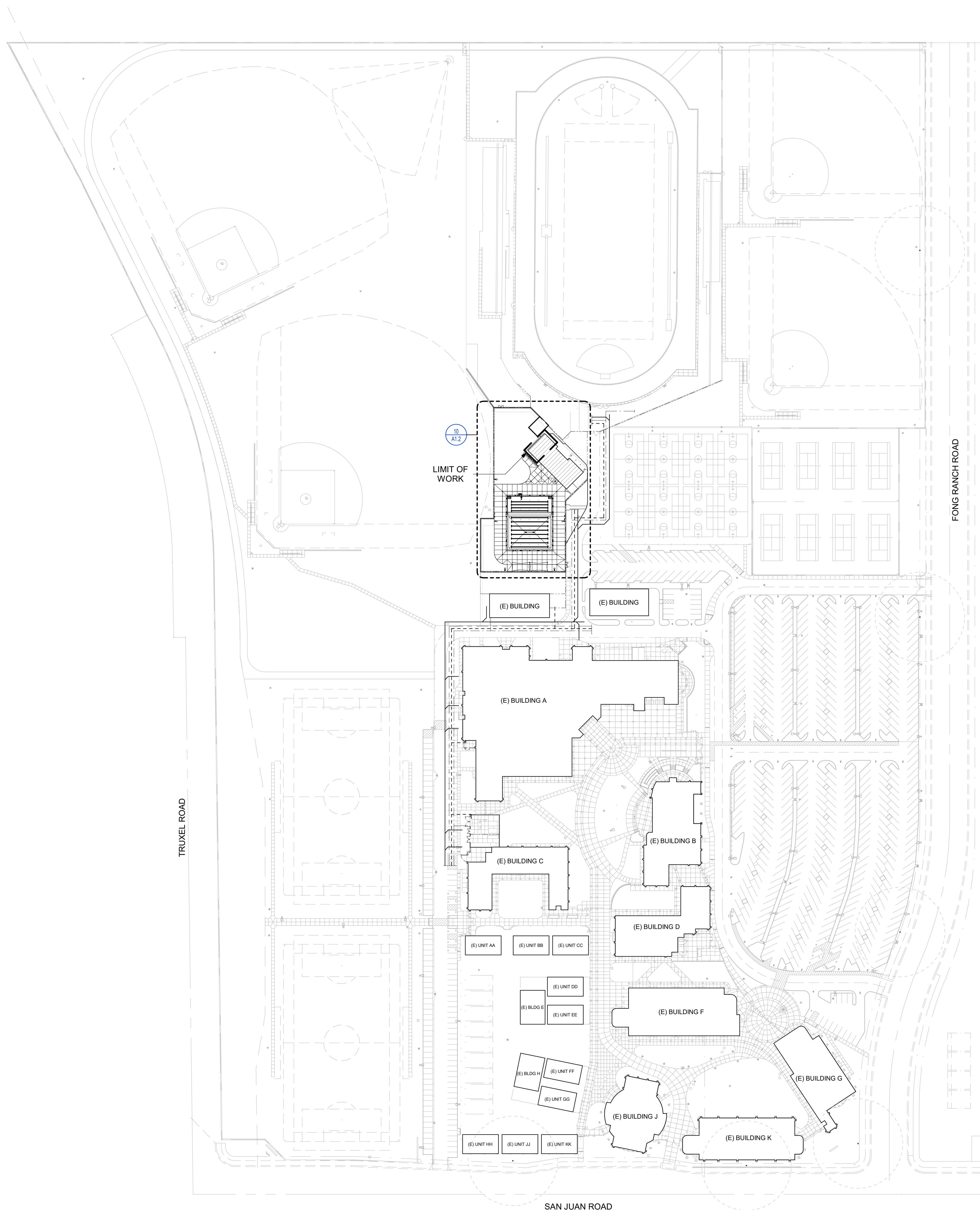
GENERAL NOTES

Date	Project Number
04/28/2023	22033.1
Application Number	Drawing Number
Drawn	Checked
Author	Checker

A0.2

ARCHITECTURAL DRAWING ABBREVIATIONS

#	POUND OR NUMBER	DG	DECOMPOSED GRANITE	HMD	HOLLOW METAL DOOR	PED	PEDESTAL	ST	STREET
&	AND	DH	DOUBLE HUNG	HMF	HOLLOW METAL DOOR AND FRAME	PERF	PERFORATED	STA	STATION
.	ITEMS IDENTIFIED AS "NIC" ARE NOT PART OF THIS DSA APPROVAL	DIA	DIAMETER	HMF	HOLLOW METAL FRAME	PERIM	PERIMETER	STAG	STAGGERED
2X	NOMINAL LUMBER SIZE (4X, 6X, 8X, ETC.)	DIAG	DIAGONAL	HNDRL	HANDRAIL	PERP	PERPENDICULAR	STC	SOUND TRANSMISSION CLASS
@	PERPENDICULAR	DIFF	DIFFUSER	HORIZ	HORIZONTAL	PSDB	PSYCHOBOARD	STD	STANDARD
A		DIM	DIMENSION	HPT	HIGH POINT	PH	PHASE	STG	SEATING
ABC	AIR CONDITIONING	DISP	DISPENSER	HR	HOUR	PHS	PHILLIPS HEAD SCREW	STIF	STIFFENER
AB	ARCHITECT/ENGINEER	DIV	DIVISION	HT	HEIGHT	PI	POINT OF INTERSECTION	STRIP	STRIP
ABAN	ABANDON	DMPP	DAMP/PROOFING	HTG	HEATING	PV	POST INDICATOR VALVE	STL	STEEL
ABC	AGGREGATE BASE COURSE	DMT	DIMOUNTABLE	HVAC	HEATING, VENTILATING, AIR CONDITIONING	PL	PLATE, PROPERTY LINE	STR	STRAIGHT
ABV	ABOVE	DR	DOOR	HWH	HOT WATER HEATER	PLAM	PLASTIC LAMINATE	STRUC	STRUCTURAL
AC	ASPHALTIC CONCRETE	DRB	DRAINBOARD	I		PLYWD	PLYWOOD	STU	STRUCT
ACC	ACCESSIBLE	DRLV	DOOR LOUVER	ID	INSIDE DIAMETER	PM	PRESSED METAL	SUSP	SUSPENDED
ACP	ALUMINUM COMPOSITE PANEL	DS	DRY STANDPIPE	IN	INCH	PMF	PRESSED METAL FRAME	T&B	TONGUE & GROOVE
ACST	ACOUSTICAL	DSP	DRY STANDPIPE	INCL	INCLUDE(D), (ING)	PNEU	PNEUMATIC	TB	THRU BOLT
ACT	ACOUSTICAL CEILING TILE	DT	DRAIN TILE	INFO	INFORMATION	PNL	PANEL	TBE	THREADED BOTH ENDS
AD	AREA DRAIN	DVTL	DOVETAIL	INSTL	INSTALL	PNT	PAINTED	TD	TOWEL DISPENSER/RECEPTACLE
ADD	ADDENDUM	DW	DISHWASHER	INSUL	INSULATE(D), (ION)	POL	POLISHED	TEL	TELEPHONE
ADH	ADHESIVE	DWG	DRAWING	INT	INTERIOR	POLY	POLYETHYLENE	TEMP	TEMPORARY
ADJ	ADJUSTABLE	DWL	DOWEL	INV	INVERT	PORC	PORCELAIN	TER	TERRAZZO
ADJC	ADJACENT	DWR	DRAWER	IPS	IRON PIPE SIZE	PORT	PORTABLE	TF	TO FLOOR ABOVE
AFF	ABOVE FINISH FLOOR	E		ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY	PR	PAIR	TFB	TO FLOOR BELOW
AFG	ABOVE FINISHED GRADE	(E)	EXISTING	J		PRCST	PRESTRESS	THD	THREADED
AGGR	AGGREGATE	(E)	EXISTING	JAN	JANITOR	PREFAB	PREFABRICATED	THERM	THERMAL
AHU	AIR HANDLING UNIT	E	EAST	JST	JOIST	PREFIN	PREFINISHED	THK	THICK
ALS	ASSISTED LISTENING SYSTEM	EA	EACH	JT	JOINT	PRFMD	PREFORMED	THRES	THRESHOLD
ALT	ALTERNATE	EAR	EXHAUST AIR REGISTER	K		PRKG	PARKING	THRU	THROUGH
ALUM/AL	ALUMINUM	EB	EXPANSION BOLT	KIT	KITCHEN	PRMLD	PREMOLDED	TKB	TACKBOARD
ANC	ANCHOR, ANCHORAGE	EE	EACH END	KO	KNOCKOUT	PROJ	PROJECT	TMPO	TEMPERED
APLD	APPLIED	EF	EACH FACE	KPL	KICKPLATE	PROP	PROPERTY	TO	TOP OF
APPRX	APPROXIMATELY	EFS	EXTERIOR FINISH SYSTEM	L		PSCONC	PRESSRESSED CONCRETE	TOB	TOP OF BEAM
ARCH	ARCHITECT(URAL)	EHD	ELECTRIC HAND DRYER	LAD	LADDER	PT	POINT	TOC	TOP OF CURB OR TOP OF CONCRETE
ASC	ABOVE SUSPENDED CEILING	EHS	ELECTRIC HEATING AND FINISH SYSTEM	LAM	LAMINATE	PTD	PAPER TOWEL DISPENSER	TOF	TOP OF FOOTING
ASF	ABOVE STAGE FINISH	EIS	EXTERIOR INSULATION AND FINISH SYSTEM	LAV	LAVATORY	PTDF	PRESSURE TREATED DOUGLAS FIR	TOFF	TOP OF FINISH FLOOR
ASPH	ASPHALT	EJ	EXPANSION JOINT	LBS	POUND(S)	PTN	PARTITION	TOJ	TOP OF JOIST
ASSY	ASSEMBLY	ELAST	ELASTOMERIC	LBL	LABEL	PTN	PARTITION	TOL	TOLERANCE
ASYM	ASYMMETRICAL	ELEC	ELECTRICAL	LBR	LUMBER	PTQ	QUARRY TILE	TOM	TOP OF MASONRY
AUTO	AUTOMATIC	ELEV	ELEVATOR	LDR	LEADER	QTB	QUARRY TILE BASE	TOP	TOP OF PARAPET
AV	AUDIO VISUAL	ELEV	ELEVATOR	LH	LENGTH, LONG	QTF	QUARRY TILE FLOOR	TOPV	TOP OF PAVEMENT
AWG	AMERICAN WIRE GAUGE	EN	EDGE NAILING	LH	LEFT HAND	QTR	QUARTER	TOPW	TOP OF SHEATHING
B		ENCL	ENCLOSURE	LHR	LEFT HAND REVERSE	QTY	QUANTITY	TOSL	TOP OF SLAB
B	BOLT	ENGR	ENGINEER	LKNT	LOCKNUT	R	RISER	TOST	TOP OF TOST
BC	BACK OF CURB	ENTR	ENTRANCE	LKR	LOCKER	RA	RETURN AIR	TOW	TOP OF WALL OR TOP OF WALK
BOARD		EQ	EQUAL	LKWASH	LOCKWASHER	R	RISER	TPD	TOILET PAPER DISPENSER
BITUM	BITUMINOUS	EQUIP	EQUIPMENT	LLH	LONG LEG HORIZONTAL	RA	RETURN AIR	TPTN	TOILET PARTITION
BLDG	BUILDING	ESC	ESCUTCHEON	LLV	LONG LEG VERTICAL	RAB	RABBIT	TRANS	TRANSITION
BLK	BLOCK	ESCL	ESCALATOR	LMST	LUMSTONE	RAD	RADIUS	TS	TUBE STEEL
BLKG	BLOCKING	ESMT	EASEMENT	LNSCP	LANDSCAPE(D)	RBS	RESILIENT BASE	TV	TELEVISION
BLW	BELOW	EW	EACH WAY	LNTL	LINTEL	RBR	RUBBER	TWLB	TOWEL BAR
BLW CLG	BELOW CEILING	EW	ELECTRIC WATER COOLER	LP	LIGHTPROOF	RC	REINFORCED CONCRETE PIPE	TY	TYPICAL
BLW FFLR	BELOW FINISH FLOOR	EW	ELECTRIC WATER HEATER	LPT	LOW POINT	RCV	RECEIVER	UC	UNDERCUT
BM	BENCH MARK	EW	EYE WASH STATION	LQ	LONG LEG	RDV	ROOF DRAIN	UGND	UNDERGROUND
BN	BOUNDARY NAILING	EXC	EXCAVATE	LQ	LONG LEG	RDRY	ROADWAY	UL	UNDERWRITERS LABORATORY
BO	BOTTOM OF	EXH	EXHAUST	LQ	LONG LEG	RFB	ROOF FLASHING	UN	UNLESS OTHERWISE NOTED
BOT	BOTTOM	EXPN	EXPANSION	LV	LOUVER VENT	RFL	REFLECTED	UR	URNAL
BRCC	BRACING	EXT	EXTERIOR	LVL	LEVEL(ER)	REC	RECESSED	URM	UNREINFORCED MASONRY
BRDG	BRIDGING	F	FUTURE	LWC	LIGHTWEIGHT CONCRETE	RECT	RECTANGULAR	UTL	UTILITY
BRG	BRIDGING	(F)	FACE TO FACE	LWIC	LIGHTWEIGHT INSULATING CONCRETE	REF	REFERENCE	VB	VINYL BASE
BRK	BRICK	FA	FACE TO FACE	M	MAINTAINANCE	REFR	REFRIGERATOR	VCT	VINYL COMPOSITION TITLE
BRKT	BRACKET	FAB	FIRE ALARM	MAINT	MAINTAINANCE	REFR	REFRIGERATOR	VER	VERTICAL
BRSS	BRASS	FBD	FIBERBOARD	MAS	MAINTAINANCE	REFIN	REINFORCED	VEST	VESTIBULE
BRZ	BRONZE	FBRK	FIRE BRICK	MATL	MATERIAL	REIN	REINFORCED	VF	VINYL FABRIC
BS	BOTH SIDES	FBRK	FIRE BRICK	MAX	MAXIMUM	REIN	REINFORCED	VFAT	VINYL FACED ACOUSTIC TILE
BSMT	BASEMENT	FCBRK	FACE BRICK	MB	MACHINE BOLT	REMP	REMOVE(ABLE)	VFI	VERIFY IN FIELD
BTWN	BETWEEN	FD	FLOOR DRAIN	MBR	MEMBER	REPL	REPLACE	VJ	V-JOINT(ED)
BUR	BUILT UP ROOFING	FDN	FOUNDATION	MC	MEDICINE CABINET	REQD	REQUIRED	VNR	VENEER
BW	BOTHWAYS	FE	FIRE EXTINGUISHER	MCB	METAL CORNER BEAD	RESIL	RESILIENT	VNR	VAPOR RETARDER
C		FEC	FIRE EXTINGUISHER CABINET	MDO	MEDIUM DENSITY OVERLAD	RET	RETURN	VTR	VENT THROUGH ROOF
C&G	CURB AND GUTTER	FF	FINISH FLOOR	MED	MEDIUM	REV	REVISION(S), REVISED	VWC	VINYL WALL COVERING
CAB	CABINET	FFA	FROM FLOOR ABOVE	MED	MEDIUM	RF	RESILIENT FLOORING	W	WEST
CAD	CADMIUM	FFB	FROM FLOOR BELOW	MEMB	MEMBRANE	RFG	ROOFING	W.O.	WHERE OCCURS
CATN	CATCH BASIN	FFEL	FINISHED FLOOR ELEVATION	MEZZ	MEZZANINE	RFH	ROOF HATCH	W	WITH
CB	CEMENTITIOUS BACKER BOARD	FFL	FINISHED FLOOR LINE	MFD	METAL FLOOR DECKING	RGDINS	RIGID INSULATION	WO	WITHOUT
CB	CALIFORNIA BUILDING CODE	FGL	FIBERGLASS	MFR	MANUFACTURER	RH	RIGHT HAND	WW	WALL TO WALL
CER	CERAMIC	FHC	FIRE HOUSE CABINET	MH	MACHINE	RHS	ROUND HEAD MACHINE SCREW	WBL	WOOD BLOCKING
CER	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	FHM	FLAT HEAD MACHINE BOLT	MH	MINIMUM	RHR	RIGHT HAND REVERSE	WC	WOOD CLOSET
CF	COUNTERFLASHING	FHMS	FLAT HEAD MACHINE SCREW	MIR	MIRROR	RHW	ROUND HEAD WOOD SCREW	WD	WOOD
CFI	CONTRACTOR FURNISHED OWNER INSTALLED	FHWS	FLATHEAD WOOD SCREW	MISC	MISCELLANEOUS	RL	ROOF LEADER	WDL	WOOD PANELING
CG	CORNER GUARD	FIN	FINISHED	ML	METAL LATH	RLG	RAILING	WDW	WINDOW
CHBD	CHALKBOARD	FJ	FLUSH JOINT	MLD	MILLWORK	RM	ROOM	WF	WIDE FLANGE
CHFR	CHAMFER	FLASH	FLASHING	MLWK	MILLWORK	RND	ROUND	WFS	WOOD FURRING STRIP
CI	CAST IRON	FLDG	FOLDING	MO	MASONRY OPENING	RO	ROUGH OPENING	WGL	WIRED GLASS
CIP	CAST IN PLACE	FLG	FLOORING	MOD	MODULE(AR)	ROW	RIGHT OF WAY	WH	WATER HEATER
CIR	CIRCLE	FLR	FLOOR	MR	MOISTURE RESISTANT	RR	RESTROOM	WH	WALL HUNG
CIRC	CIRCULAR, CIRCUMFERENCE	FLOR	FLOOR	MRS	MARBLE	RS	ROUGH SAWN	WI	WROUGHT IRON
CIRC	CIRCULAR, CIRCUMFERENCE	FLOR	FLOOR	MRS	MARBLE	RTF	RUBBER TILE FLOORING	WID	WIDTH, WIDE
CL	CONSTRUCTION JOINT	FN	FIELD NAILING	MRD	METAL ROOF DECKING	RTU	ROOF TOP UNIT	WLD	WELDED
CL	CHAIN LINK OR CENTER LINE	FOB	FACE OF BLOCK	MS	MACHINE SCREW	RV	ROOF VENT	WLM	WIRE MESH
CLG	CEILING	FOC	FACE OF CONCRETE/CURB	MTD	MOUNTED	RVL	REVEAL	WP	WATERPROOFING
CLJ	CONTROL JOINT	FOF	FACE OF FINISH	MTL	METAL	RVS	REVERSE (SIDE)	WPT	WORKING POINT
CLKG	CALLING	FOM	FACE OF MASONRY	MTR	METAL	RVT	RIVET(ED)	WR	WIRE ROPE
CLL	CONTRACT LIMIT LINE	FOS	FACE OF STUD	MULL	MULLION	RWD	REDWOOD	WS	WOOD SCREW
CLOS	CLOSURE	FPL	FACE OF STUD	N	NORTH	RWL	RAIN WATER LEADER	WSCT	WAINSCOT
CLR	CLEAR(ANCE)	FPR	FIREPROOFING	(N)	NORTH	S	SOUTH	WT	WEIGHT
CLRM	CLASSROOM	FRF	FIREPROOFING	(N)	NORTH	S	SOUTH	WWF	WELDED WIRE FABRIC
CLTB	CORRUGATED METAL PANEL	FRM	FRAME(D), (ING)	NAT	NATURAL	S2S	SURFACED TWO SIDES	X	CROSS BRACE
CMPST	COMPOSITION	FRG	FIBERGLASS REINFORCED GYPSUM	NAT	NATURAL	S2S	SURFACED TWO SIDES	XFMR	CROSS TRANSFORMER
CMU	CONCRETE MASONRY UNIT	FRP	FIBERGLASS REINFORCED PLASTIC	NCOMBL	NONCOMBUSTIBLE	S4S	SURFACED FOUR SIDES	XSECT	CROSS SECTION
CNCL	CONCEALED	FRTW	FIRE RETARDANT TREATED WOOD	NC	NOT EXCEEDING	SF	SQUARE FEET	Y	SINGLE
CNR	CORNER	FRZ	FREEZER	NE	NOT EXCEEDING	SHR	SHOWER	YCD	YARD CLEANOUT
CNTR	COUNTER	FRS	FIRE SPRINKLER	NF	NEAR FACE	SHT	SHEET(ING)	YD	YARD
COL	COLUMN	FS	FIRE SPRINKLER	NIC	NOT IN CONTACT	SHTG	SHEATHING		
COM	COMMON	FAR	FAR SIDE	NLB	NON-LOAD BEARING	SHV	SHELVES(ING)		
COMB	COMBINATION	FSTN	FASTEN, FASTENER	NLB	NON-LOAD BEARING	SIM	SIMILAR		
COMP	COMPOSITE	FT	FOOT/FEET	NM	NONMETALLIC	SK	SINK		
COMPT	COMPARTMENT	FTG	FOOTING	NO	NUMBER	SKLT	SKYLIGHT		
CONC	CONCRETE	FURG	FURRED, (ING)	NOMBL	NONCOMBUSTIBLE	SLD	SEALED		
CONF	CONFERENCE	FWC	FABRIC WALL COVERING	NR	NOISE REDUCTION	SLDG	SLIDE(ING)		
CONN	CONNECTION	G		NRC	NOISE REDUCTION COEFFICIENT	SOLDER	SOLDER		
CONSTR	CONSTRUCTION	GA	GAUGE	NRCA	NATIONAL ROOFING CONTRACTOR'S ASSOCIATION	SM	SHEET METAL		
CONT	CONTINUOUS, CONTINUATION	GAL	GALLON	NS	NEAR SIDE	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION		
CONTR	CONTRACT(OR)	GALV	GALVANIZED	NTS	NOT TO SCALE	SMLS	SEAMLESS		
COORD	COORDINATE	GB	GRAB BAR	O	OVER	SMS	SHEET METAL SCREW		
CORR	CORRIDOR	GFR	GLASS FIBER REINFORCED CONCRETE	O	OVER	SND	SANITARY NAPKIN DISPENSER		
CORR	CORRIDOR	GI	GALVANIZED IRON	O/O	OUT TO OUT	SNDINS	SOUND INSULATION		
CPR	COPPER	GL	GLASS	GA	GALVANIZED	SNDINS	SOUND INSULATION		
CPRS	COMPRESSED(ED), (ION), (IBLE)	GLU	GLUE	OB	OBSCURE	P	PAINT		
CPT	CARPET	GLULAM	GLUE LAMINATED	OC	ON CENTER	PA	PUBLIC ADDRESS		
CRS	COLD ROLLED STEEL	GLZ	GLAZING	OCC	OCCUPANTS OR OCCUPANCY	PAR	PARALLEL		
CS	CAST STONE	GLZCMU	GLAZED CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER	PAT	PATTERN		
CSG	CASING	GND	GROUND	OFF	OFFICE	PB	PANIC BAR		
CSK	COUNTERSUNK	OPCI	OWNER FURNISHED CONTRACTOR INSTALLED	OFF	OFFICE	PBD	PARTICLE BOARD		
CSMT	CASEMENT	OPF	OWNER FURNISHED CONTRACTOR INSTALLED	OFI	OWNER FURNISHED CONTRACTOR INSTALLED	PCC	PORTLAND CEMENT		
CSWK	CASEWORK	OFI	OWNER FURNISHED CONTRACTOR INSTALLED	OFI	OWNER FURNISHED CONTRACTOR INSTALLED	PCC	PORTLAND CEMENT		
CT	CERAMIC TILE	OFS	OUTSIDE FACE OF STUD	OFI	OWNER FURNISHED CONTRACTOR INSTALLED	PCP	PORTLAND CEMENT PLASTER		
CTB	CERAMIC TILE BASE	OHS	OVERHEAD WOOD SCREW	OFS	OUTSIDE FACE OF STUD				
CTF	CERAMIC TILE FLOOR	OHS	OVERHEAD WOOD SCREW	OHWS	OVERHEAD WOOD SCREW				
CTG	COATING	OI	OWNER INSTALLED	OHS	OVERHEAD WOOD SCREW				
CTR	CENTER	OPH	OPPOSITE HAND	OI	OWNER INSTALLED				
CURT	CUBIC FOOT	OPG	OPENING	OPH	OPPOSITE HAND				
CUI	CUBIC INCH	OPP	OPPOSITE	OPG	OPENING				
CUST	CUSTODIAN	OPQ	OPAQUE	OPR	OPERABLE				
CUYD	CUBIC YARD	OPR	OPERABLE	ORD	OVERFLOW ROOF DRAIN				
CW	CURTAIN WALL	OSB	ORIENTED STRAND BOARD	OSB	ORIENTED STRAND BOARD				
D		OVFL	OVERFLOW	OVHD	OVERHEAD				
D	DRAIN	H							
d	PENNYWEIGHT (NAILS)	HB	HOSE BIB						
DA	DOUBLE ACTING	HC	HOLLOW CORE						



KEYNOTES

NUMBER	NOTE

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR 6'-0" HIGH TEMPORARY CONSTRUCTION BARRIER WITH VISION SCREEN AT STAGING, STORAGE AND CONSTRUCTION AREA WITH SIGNAGE EVERY 20'-0" TO WARN STUDENTS OF CONSTRUCTION AREA.
- CONTRACTOR SHALL ACCESS THE SITE FROM T.B.D. ANY DAMAGE TO FIRE LANE WILL BE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO BRING IN OFFICE TRAILER TO CONSTRUCTION AREA.
- CONTRACTOR TO REPAIR BACK TO EXISTING CONDITIONS ALL LAYDOWN AREAS AT THE END OF CONSTRUCTION. THIS INCLUDES LANDSCAPE AREAS AND ANY BROKEN SPRINKLERS, VALVE BOXES, CONCRETE, ASPHALT, ETC.
- CONTRACTOR SHALL REPLACE, RECONSTRUCT AND REPAIR ALL EXISTING WORK THAT IS IMPACTED, DAMAGED, OR DESTROYED AS A RESULT OF ANY CONTRACTOR WORK INCLUDING, BUT NOT LIMITED TO, HARDSCAPING, SIDEWALKS, IRRIGATION SYSTEMS, LANDSCAPING, LAWNS, STRUCTURES AND UTILITIES - ALL TO THE SATISFACTION OF THE DISTRICT.
- WHERE ASPHALT OR CONCRETE IS BEING REPAATCHED, CONTRACTOR SHALL PROVIDE EVEN AND STRAIGHT LINE CUTS WITH 2-FOOT STRAIGHT SLURRY SEAL SURFACE PATCH ON BOTH SIDES OF CUT.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ARCHITECT 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 ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
- GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS WITH PROPER LEVER HARDWARE AND KICK PLATES.

LEGEND

	(E) BUILDING, PART OF SCOPE
	(E) BUILDING, NOT IN SCOPE
	LIMIT OF WORK
	PROPERTY LINE
	(E) FENCING
	SS
	F
	MP GAS
	CW

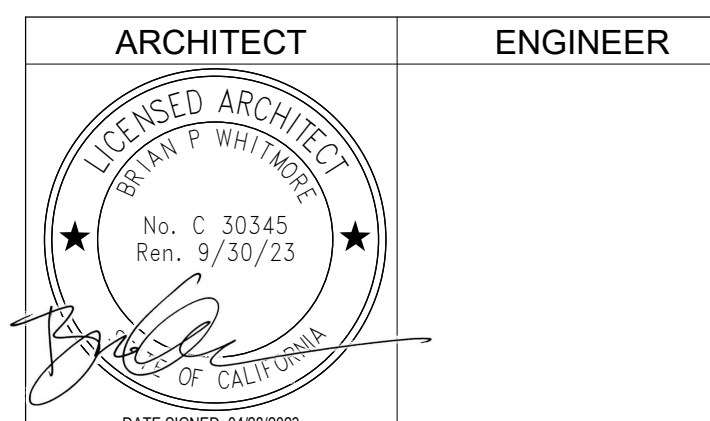
SITE PLAN 1" = 80'-0" 10

DSA STAMP



STUDIO W
ARCHITECTS

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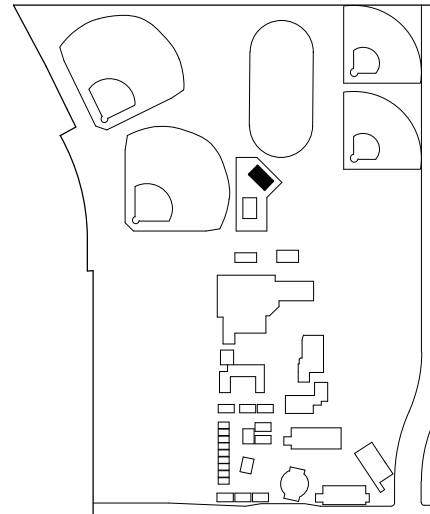


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NO.	REMARKS	DATE

- REVISION HISTORY
- | NO. | REMARKS | DATE |
|-----|---------|------|
| | | |
| | | |
- DRAWING STATUS
- DSA PLAN CHECK
 - DSA BACK CHECK
 - BIDDING
 - CONSTRUCTION

KEY PLAN



Natomas Unified School District

PROJECT STATUS

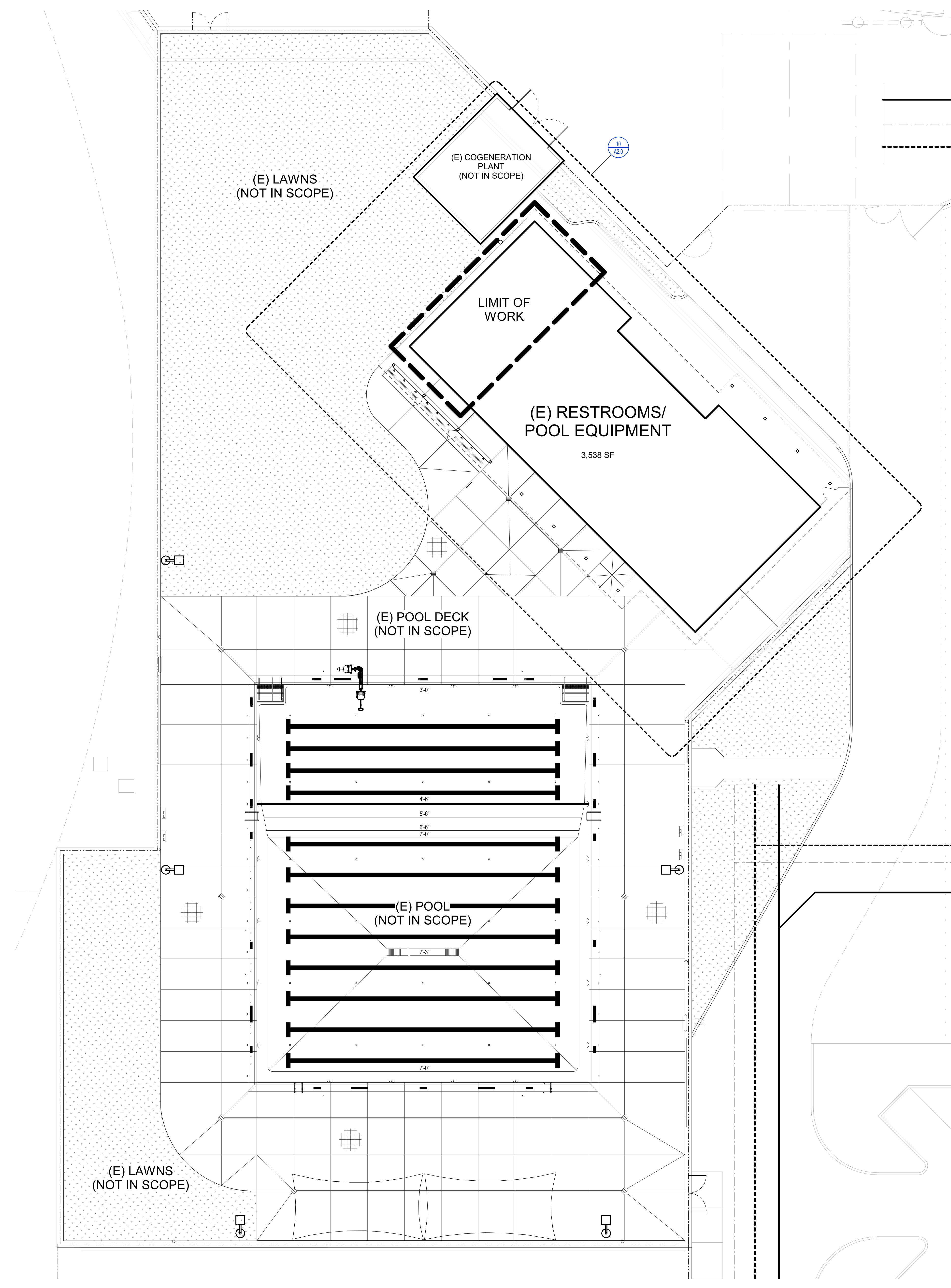
**NUSD Natomas HS
BOILER/DHW REPLACEMENT
3301 FONG RANCH ROAD
SACRAMENTO, CA 95834**

SITE PLAN OVERALL

Date 04/28/2023	Project Number 22033.1
Application Number --	Drawing Number A1.1
Drawn RR	Checked CG

PRINT DATE: 4/28/2023 12:01:53 PM
 FILE PATH: C:\Users\smof\Documents\220331 NUSD Natomas HS Pool EQ REPLACE.dwg

REF: 10 / A1.1



KEYNOTES

NUMBER NOTE

GENERAL NOTES

DSA STAMP



STUDIO W
ARCHITECTS

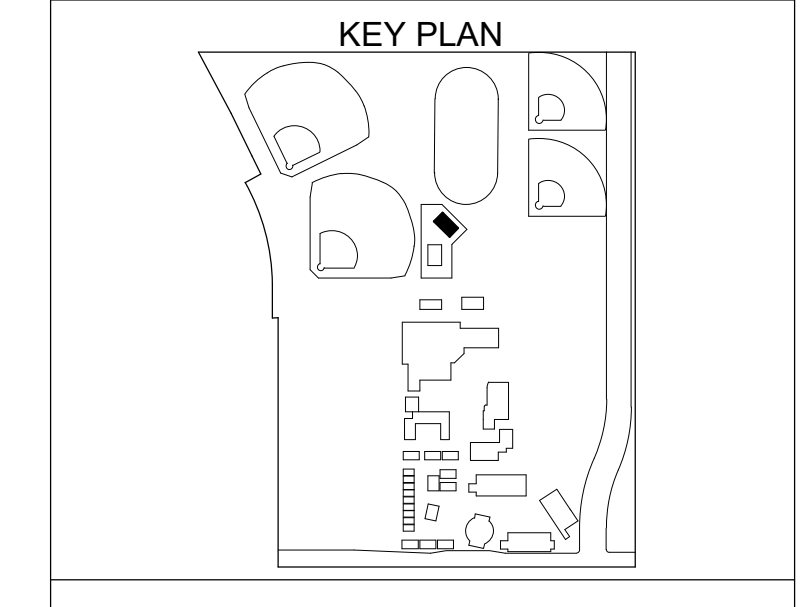
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ARCHITECT	ENGINEER

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NO.	REMARKS	DATE

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



Natomas Unified School District

PROJECT STATUS

NUSD Natomas HS
 BOILER/DHW REPLACEMENT
 3301 FONG RANCH ROAD
 SACRAMENTO, CA 95834

SITE PLAN ENLARGED

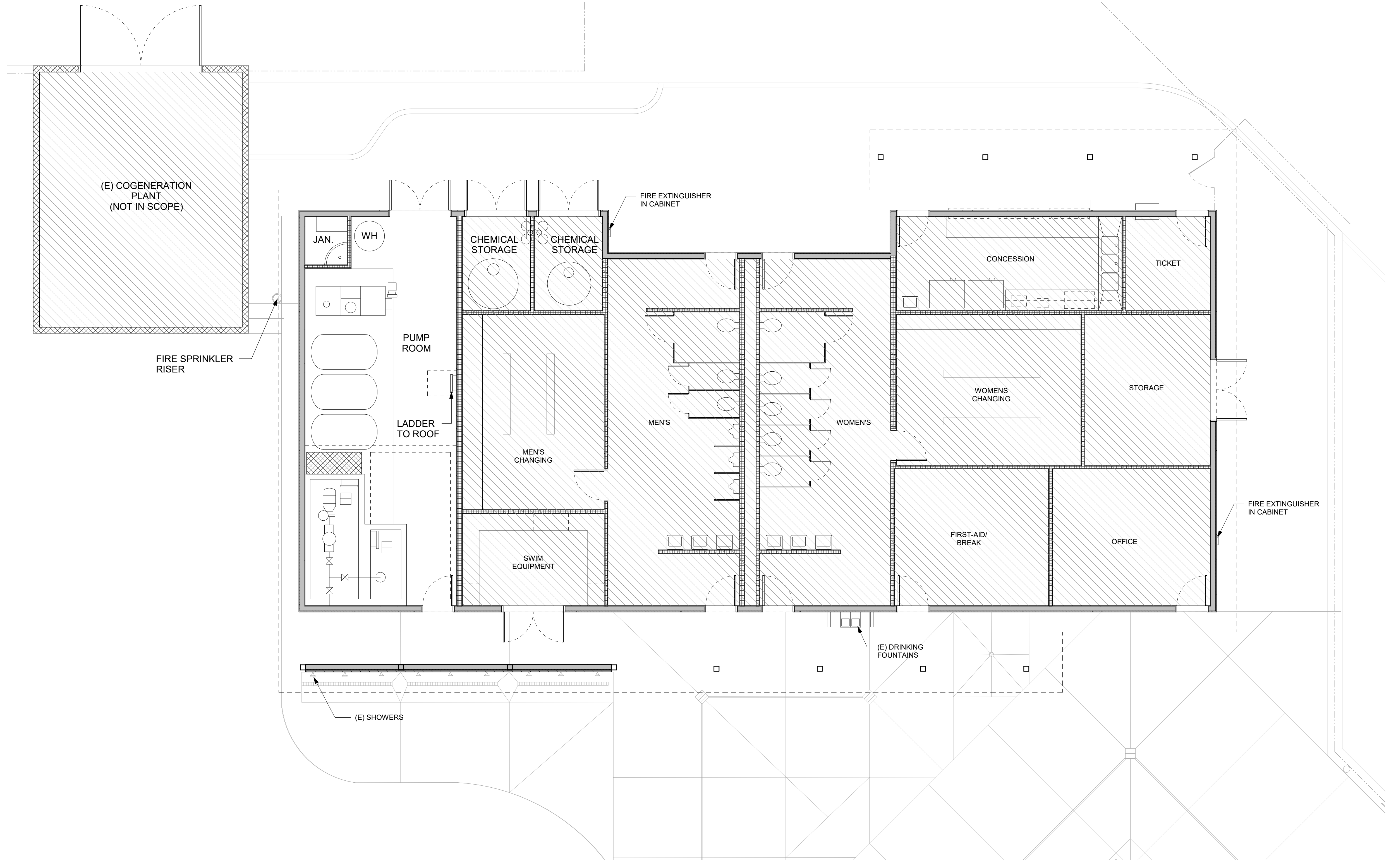
Date	Project Number
04/28/2023	22033.1
Application Number	Drawing Number
Drawn	Checked
Author	Checker

A1.2

ENLARGED SITE PLAN 3/32" = 1'-0" 10

PRINT DATE: 4/26/2023 12:01:54 PM
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KEYNOTES

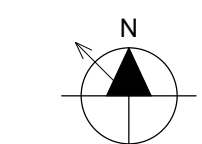
NUMBER	NOTE

GENERAL NOTES

- ALL DEMOLITION WORK SHALL COMPLY WITH CFC CHAPTER 33 OF THE FIRE CODE AND CBC CHAPTER 33 OF THE BUILDING CODE FOR SAFETY DURING CONSTRUCTION AND DEMOLITION AND CALIFORNIA EXISTING BUILDING CODE (PART 10) FOR EXISTING STRUCTURES.
- ALL DIMENSIONS SHOWN ON THIS SHEET ARE EXISTING AND APPROXIMATE.
- VERIFY IN FIELD.
- VERIFICATION OF EXISTING CONDITIONS:
 A. IN THE REMODELING OF AN EXISTING BUILDING CERTAIN ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE BUILDING. NOTIFY THE ARCHITECT IMMEDIATELY FOR GUIDANCE ON HOW TO PROCEED WHEN CONDITIONS ARE DISCOVERED DURING CONSTRUCTION WHICH DIFFER FROM THOSE INDICATED ON THE DRAWINGS.
- SEE HAZARDOUS MATERIALS REPORT FOR ABATEMENT REQUIREMENTS DURING DEMOLITION.
 NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

LEGEND

	(E) AREA NOT UNDER SCOPE OF WORK
	(E) TYP. 6" EXTERIOR STUCCO WALLS
	(E) TYP. 6" 1 HR. RATED WALL
	(E) TYP. 6" INTERIOR WALL
	(E) TYP. 6" INTERIOR FURRING WALL
	(E) TYP. 4" INTERIOR WALL
	(E) TYP. 4" INTERIOR FURRING WALL
	(E) 8" CMU WALL



DSA STAMP



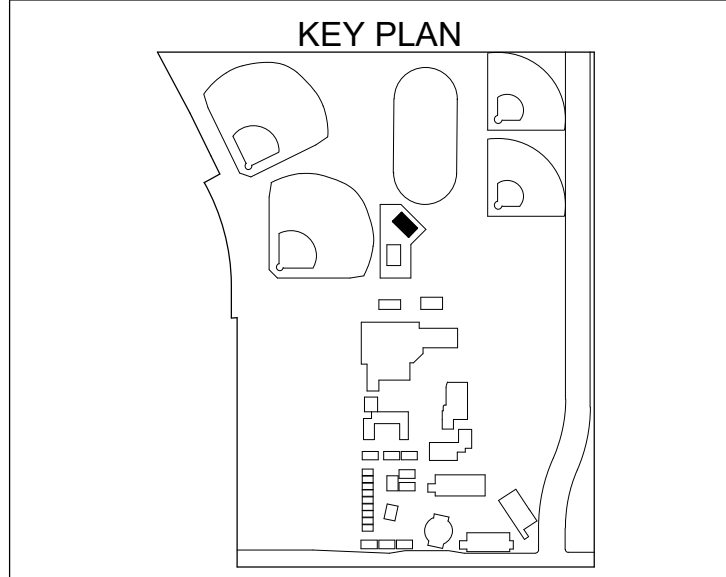
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ARCHITECT	ENGINEER

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NO.	REMARKS	DATE

DATE



Natomas Unified School District

PROJECT STATUS

NUSD Natomas HS
 BOILER/DHW REPLACEMENT
 3301 FONG RANCH ROAD
 SACRAMENTO, CA 95834

**FLOOR PLAN - (E)
 RESTROOM/ POOL
 EQUIPMENT**

Date	04/28/2023	Project Number	22033.1
Application Number		Drawing Number	
Drawn	RR	Checked	CG

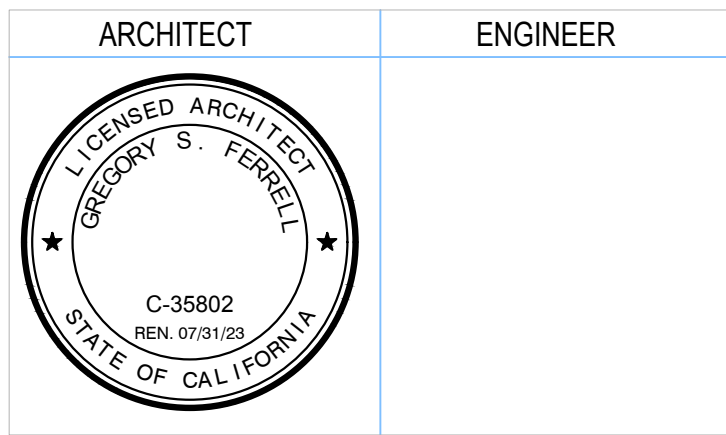
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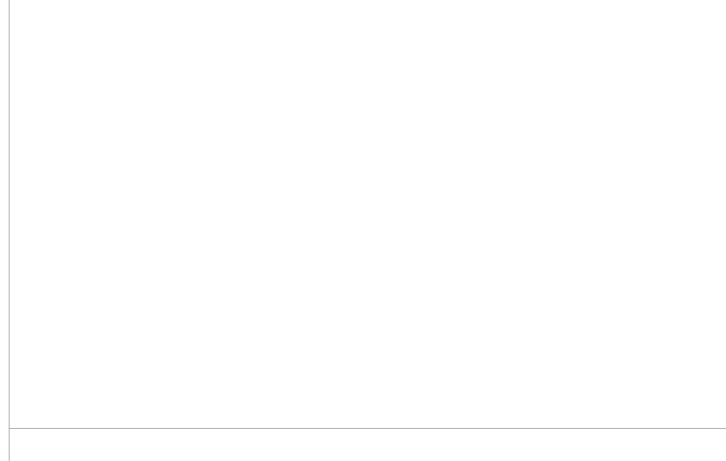


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NO.	REMARKS	DATE

- DRAWING STATUS
- DSA PLAN CHECK
 - DSA BACK CHECK
 - BIDDING
 - CONSTRUCTION

KEY PLAN



Natomas Unified School District

PROJECT STATUS

NUSD Natomas HS
POOL MODERNIZATION
3301 FONG RANCH ROAD
SACRAMENTO, CA 95834

EXISTING MECHANICAL ROOM LAYOUT PLAN

Date: 03/09/2023
Project Number: 22033
Application Number: XX-XXXXXX
Drawing Number: MR.1
Drawn: NFC
Checked: S/JF

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E), SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) OPM #0043-13

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA - APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.10 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

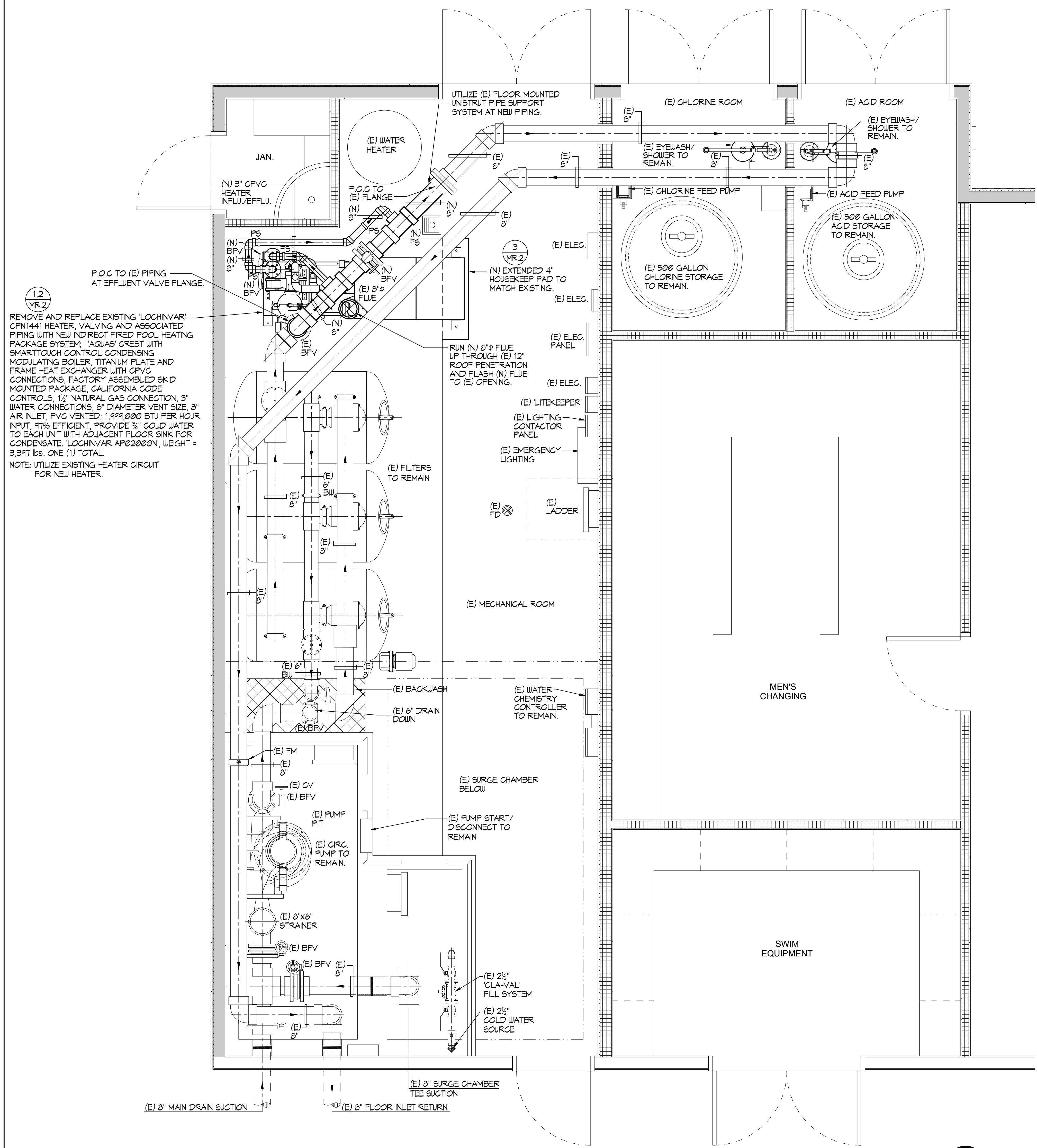
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

MECHANICAL ANCHORAGE

- EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ 2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB TZ 2 (ICC ESR-4561) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOUCEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT WITH CONCRETE STRENGTH EQUAL TO OR GREATER THAN BASE MATERIAL. IF THE ANCHOR OR DOUCEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
- LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
- ANCHORS SHALL BE PROOF-TESTED BY QUINER'S TESTING AND INSPECTION AGENCY.
 - TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
 - APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING LOADING DEVICES, ETC.
 - REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
 - UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.
 - TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE TABLE:
 - HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.
 - IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY. CCD WILL BE REQUIRED.

LEGEND

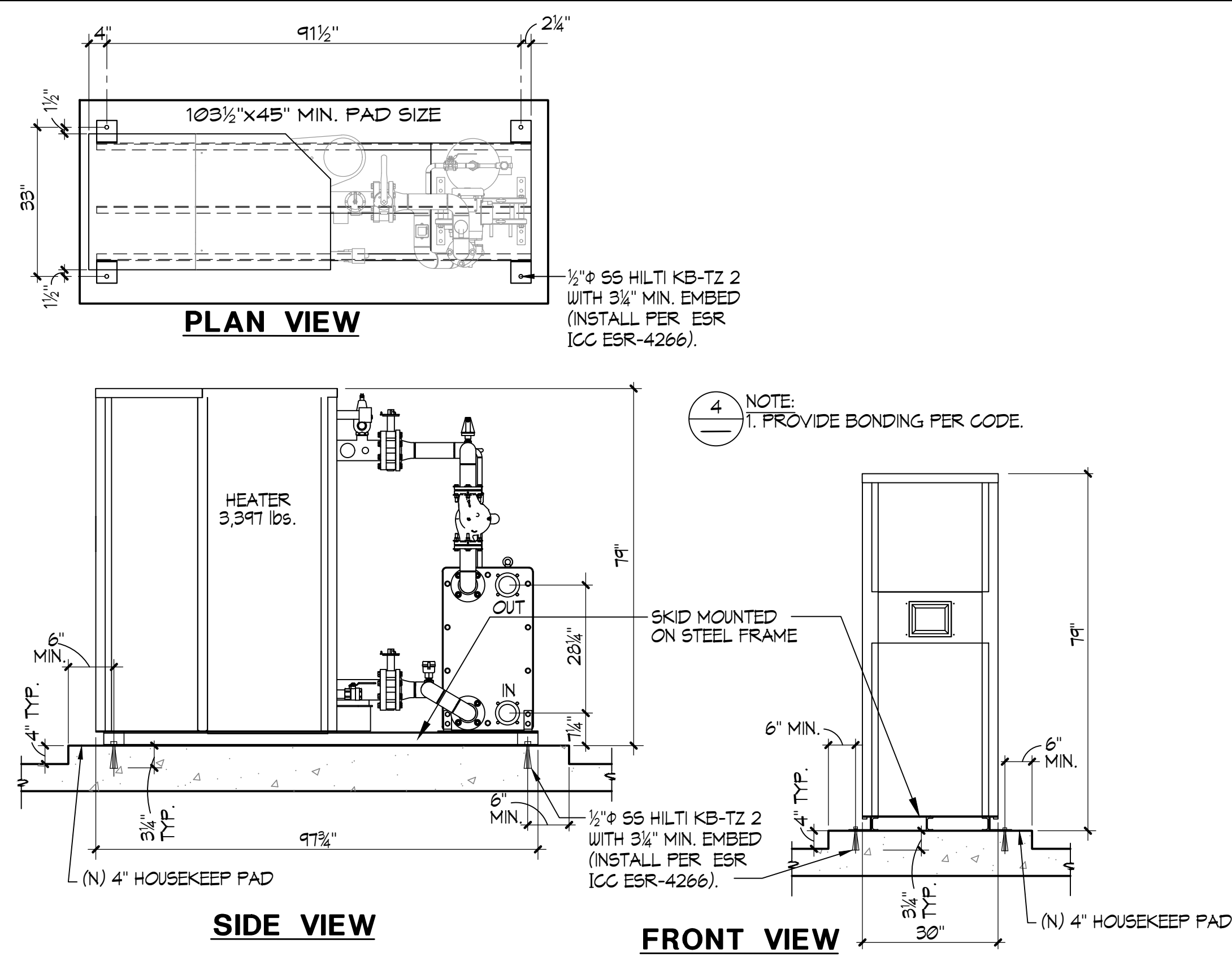
- BFV = BUTTERFLY VALVE
- CV = CHECK VALVE
- FM = FLOWMETER
- BW = BACKWASH
- FS = FLOOR SINK
- (E) = EXISTING
- (N) = NEW
- PS = PIPE SUPPORT (UTILIZE (E) FLOOR MOUNTED UNISTRUT SYSTEM)



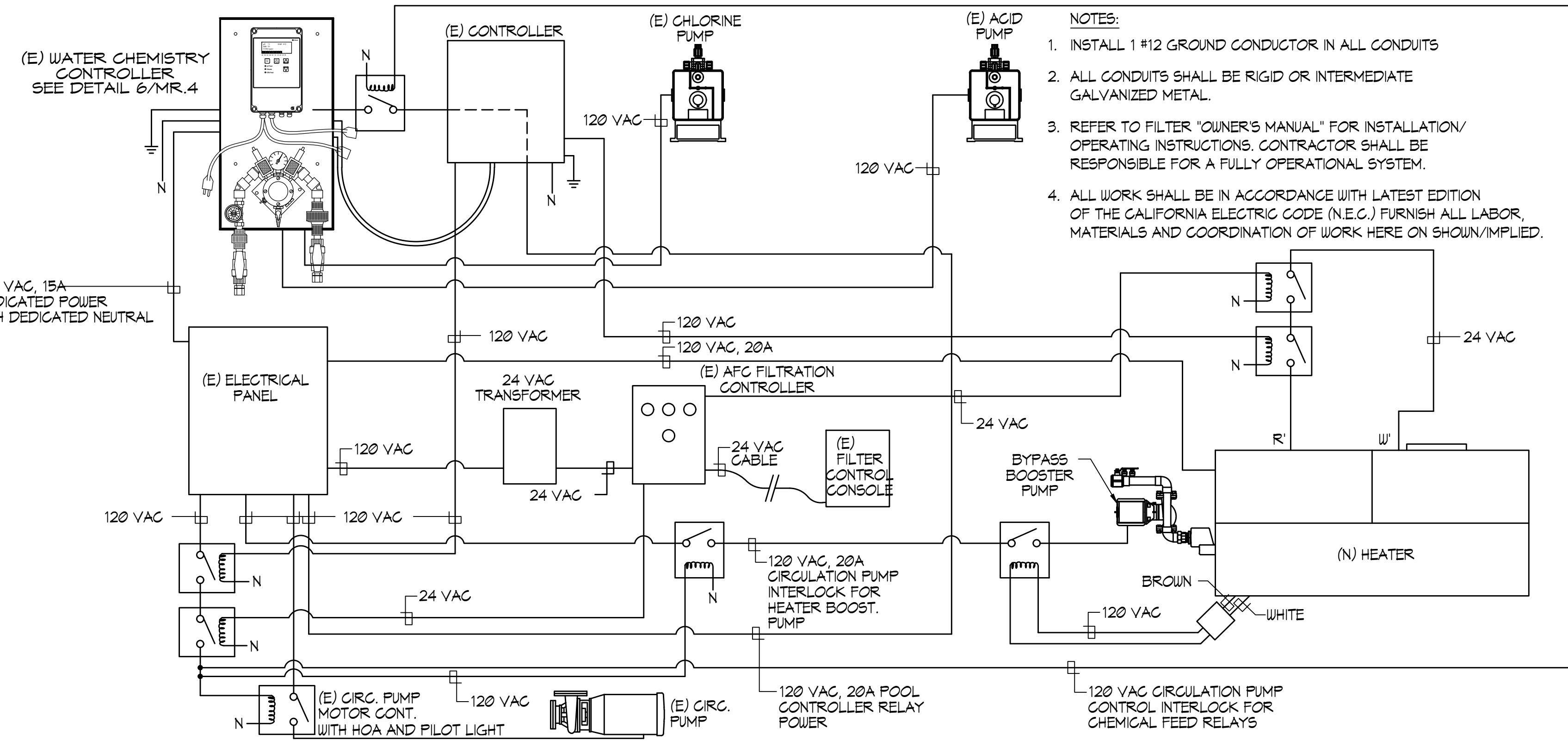
REMOVE AND REPLACE EXISTING 'LOCHINVAR' CPN1441 HEATER, VALVING AND ASSOCIATED PIPING WITH NEW INDIRECT FIRED POOL HEATING PACKAGE SYSTEM. 'AQUAS' CREST WITH SMARTTOUCH CONTROL CONDENSING MODULATING BOILER, TITANIUM PLATE AND FRAME HEAT EXCHANGER WITH CPVC CONNECTIONS, FACTORY ASSEMBLED SKID MOUNTED PACKAGE, CALIFORNIA CODE CONTROLS, 1 1/2" NATURAL GAS CONNECTION, 3" WATER CONNECTIONS, 8" DIAMETER VENT SIZE, 8" AIR INLET, PVC VENTED; 1,999,000 BTU PER HOUR INPUT, 91% EFFICIENT, PROVIDE 3/4" COLD WATER TO EACH UNIT WITH ADJACENT FLOOR SINK FOR CONDENSATE. 'LOCHINVAR' AF02000N, WEIGHT = 3,947 LBS. ONE (1) TOTAL.

NOTE: UTILIZE EXISTING HEATER CIRCUIT FOR NEW HEATER.

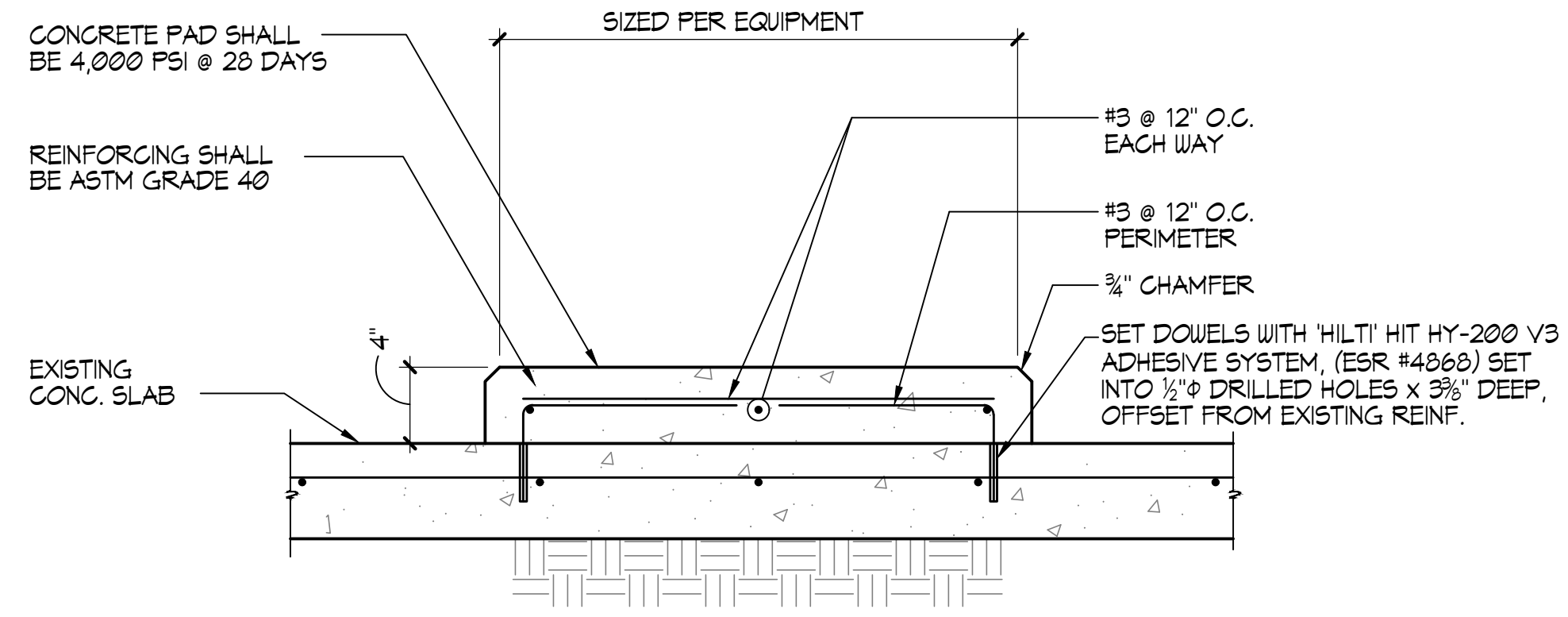
WEDGE, EXPANSION OR ADHESIVE ANCHOR EMBEDMENT DEPTH AND TEST LOAD									
SIZE	MIN. EMBED	HILTI KB TZ 2 (SS) ANCHORS IN CONCRETE		KB TZ 2 (SS) ANCHORS IN CMU		HILTI HIT-HY 200 ADHESIVE ANCHORS IN CONCRETE			
		TENSION LOAD (LBS)	TORQUE LOAD (FT-LBS)	MIN. EMBED	TENSION LOAD (LBS)	TORQUE LOAD (FT-LBS)	MIN. EMBED	FULL TEST LOAD (LBS)	TORQUE LOAD (FT-LBS)
1/4" DIA.	1 1/2"	800	6	1 3/4"	145	6	-	-	-
3/8" DIA.	2 1/2"	1,500	30	3"	590	15	3"	2,910	15
1/2" DIA.	3 1/4"	3,000	40	3 3/4"	640	25	4"	5,165	30
5/8" DIA.	3 1/4"	4,900	60	4 1/2"	940	35	5"	8,245	60
3/4" DIA.	3 3/4"	6,300	125	5 1/2"	1,305	50	6"	10,150	100



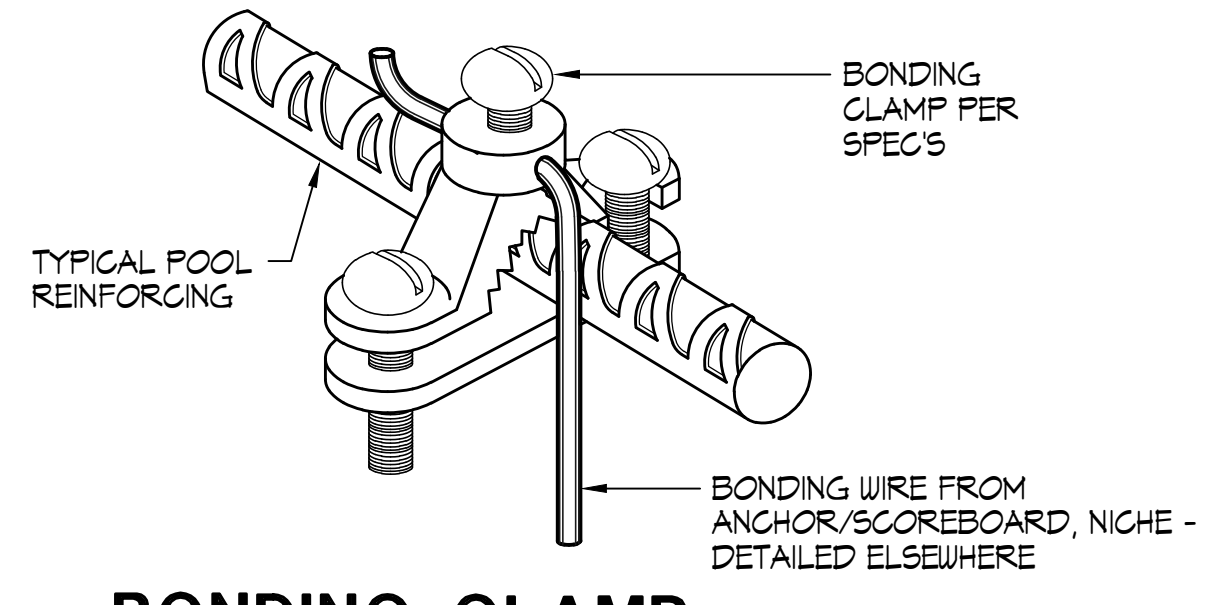
HEATER ANCHORAGE NO SCALE



POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE



RETROFIT MECHANICAL PAD 1/2" = 1'-0"



BONDING CLAMP NO SCALE

BONDING DETAILS NO SCALE

- NOTES:**
1. INSTALL 1 #12 GROUND CONDUCTOR IN ALL CONDUITS
 2. ALL CONDUITS SHALL BE RIGID OR INTERMEDIATE GALVANIZED METAL.
 3. REFER TO FILTER 'OWNER'S MANUAL' FOR INSTALLATION/ OPERATING INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.
 4. ALL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE CALIFORNIA ELECTRIC CODE (N.E.C.) FURNISH ALL LABOR, MATERIALS AND COORDINATION OF WORK HERE ON SHOWN/IMPLIED.

DSA STAMP



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ARCHITECT	ENGINEER

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NO.	REMARKS	DATE

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

KEY PLAN

Natomas Unified School District

PROJECT STATUS

NUSD Natomas HS
POOL MODERNIZATION
3301 FONG RANCH ROAD
SACRAMENTO, CA 95834

DETAILS

Date	03/09/2023	Project Number	22033
Application Number	XX-XXXXXX	Drawing Number	
Drawn	NFC	Checked	S/JF

MR.2

EQUIPMENT ANCHORAGE NOTES

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PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT
 SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL
 (OPM#) #0043-13.

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	TRANSFER AIR	TA
	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	
	GRILLE DESIGNATION NECK SIZE & BLOW (4 UON) FIRE DAMPER WHERE REQ'D	
	ACOUSTIC LINED DUCT	L
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	DUCT RISER	
	DUCT DROP	
	RECTANGULAR TO ROUND FITTING	
	VOLUME CONTROL DAMPER	VD
	FIRE DAMPER W/ ACCESS	FD
	FIRE SMOKE DAMPER W/ ACCESS	FSD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	MOTORIZED DAMPER	
	THERMOSTAT @ +48" AFF	T-STAT
	SENSOR @ +48" AFF	
	TIMECLOCK @ +48" AFF	
	TEMPERATURE CONTROL PANEL	TCP
	DUCT SMOKE DETECTOR	SD
	PIPE RISER/DROP	(R)/(D)
	ABOVE FINISHED FLOOR	AFF
	UNLESS OTHERWISE NOTED	UON
	TYPICAL	(TYP)
	BOTTOM OF DUCT	BOD
	BOTTOM OF PIPE	BOP
	AUTOMATIC AIR VENT	AAV
	MANUAL AIR VENT	MAV
	TEMP. CONTROL CONTRACTOR	TCC
	TEMPERATURE CONTROL VALVE	TCV
	COMBUSTION AIR	CA
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC
	HEATING HOT WATER SUPPLY	HHWS
	HEATING HOT WATER RETURN	HHWR
	2-WAY CONTROL VALVE	
	BACKFLOW PREVENTER	BFP
	BALL VALVE	
	BUTTERFLY VALVE	
	CAP	
	CHECK VALVE	
	AUTOMATIC BALANCE VALVE (B&G ULTRA SET)	ABV
	AUTOMATIC BALANCE VALVE (B&G CIRCUIT SETTER)	ABV
	CONTROL VALVE (2-WAY)	
	FLEX CONNECTOR	FC
	FLOW ARROW	
	GATE VALVE	
	PRESSURE GAUGE	
	PLUG VALVE	
	REDUCER	
	STRAINER	
	TEMPERATURE SENSOR	TS
	TEST PORT (PETE'S PLUG)	PP
	THERMOMETER	
	TRIPLE DUTY VALVE	

MECHANICAL SPECIFICATIONS

- THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
 - 2022 CALIFORNIA BUILDING CODE
 - 2022 CALIFORNIA MECHANICAL CODE
 - 2022 CALIFORNIA PLUMBING CODE
 - 2022 CALIFORNIA ELECTRICAL CODE
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS
 - 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24
 - NATIONAL FIRE PROTECTION ASSOCIATION
 - CALIFORNIA STATE FIRE MARSHAL
- ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.
- CHECK AND VERIFY EXISTING CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE LOCATION AND CONFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRED MUST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER.
- THE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO COORDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER.
- SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, AIR FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.
- ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.
- PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANICAL CONTROL SYSTEM COMPONENTS, FIRE/SMOKE DAMPERS, SMOKE DETECTORS, ETC., OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
- CHECK ALL PIPE AND DUCTWORK FOR LEAKS AND EXCESSIVE AIR LOSS AND NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
- GALVANIZED STEEL DUCTS SHALL BE ASTM A 653/A 653M GALVANIZED STEEL SHEET, FORMING STEEL (FS) DESIGNATION, WITH G90/Z275 ZINC COATING.
- FABRICATE, SUPPORT AND SEAL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR 4" STATIC PRESSURE UPSTREAM OF TERMINAL UNITS (VAV, CAV BOXES) AND 2" STATIC PRESSURE DOWNSTREAM OF TERMINAL UNITS (VAV, CAV BOXES).
- CONSTRUCT DUCTWORK T'S, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE RECTANGULAR ELBOWS MUST BE USED. PROVIDE AIR FOIL TURNING VANES, WHERE ACOUSTICAL LINING IS INDICATED, PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.
- COMBINATION FIRE AND SMOKE DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A, UL 555, UL 555S, AND AS INDICATED. PROVIDE FACTORY SLEEVE AND COLLAR FOR EACH DAMPER.
- ALL INSULATION AND LINER PRODUCTS SURFACE BURNING CHARACTERISTICS: FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255, OR UL 723.

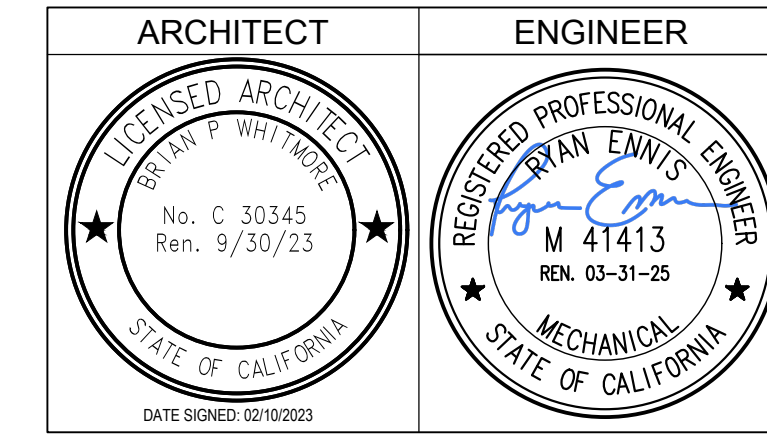
MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M2.0	MECHANICAL SCHEDULES, LEGEND & NOTES
M1.1	MECHANICAL SITE PLAN
M2.0	MECHANICAL DEMO FLOOR PLAN
M2.1	MECHANICAL FLOOR PLAN

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- DATE
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- DSA PLAN CHECK
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 - BIDDING
 - CONSTRUCTION

KEY PLAN

Natomas Unified School District

PROJECT STATUS

NUSD Natomas HS POOL MODERNIZATION
 3301 FONG RANCH ROAD
 SACRAMENTO, CA 95834

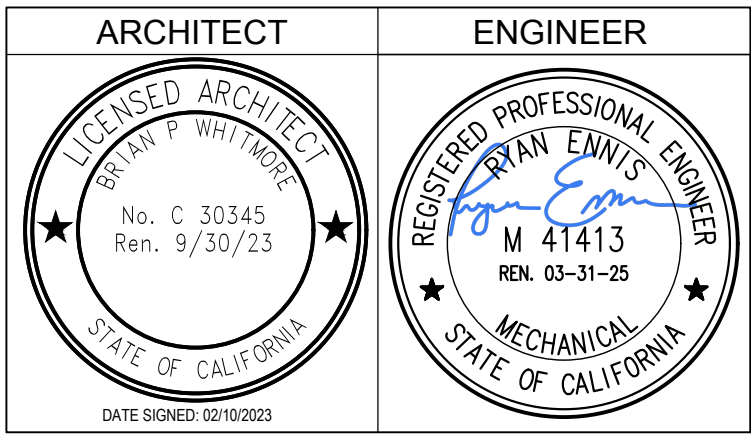
MECHANICAL SCHEDULES, LEGEND & NOTES

Date: 02/10/2023
 Project Number: 22033
 Application Number: XX-XXXXXX
 Drawing Number: MO.0
 Drawn: []
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MECHANICAL SITE PLAN

Date: 02/10/2023 Project Number: 22033

Application Number: XX-XXXXXX Drawing Number: M1.1

Drawn: _____ Checked: _____

Author: _____ Checker: _____



PRINT DATE
FILE PATH

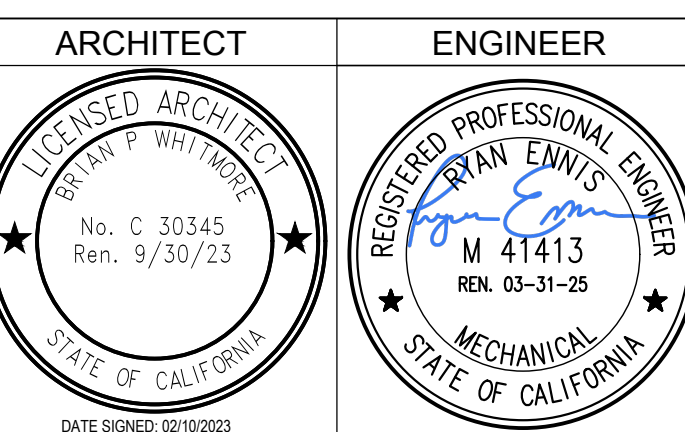
KEY NOTES

- ① REMOVE (E) WATER HEATER FLUE THROUGH ROOF. (E) OPENING TO BE REUSED AND PATCHED FOR (N) CONCENTRIC VENT.
- ② REMOVE (E) POOL BOILER FLUE THROUGH ROOF. SEE POOL EQUIPMENT DRAWINGS FOR NEW WORK.

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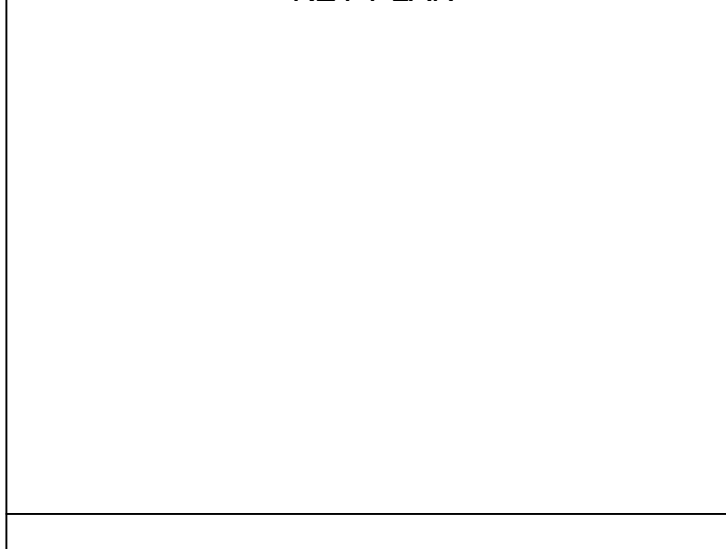
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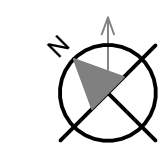
NUSD Natomas HS
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MECHANICAL DEMO FLOOR PLAN

Date 02/10/2023	Project Number 22033
Application Number XX-XXXXXX	Drawing Number M2.0
Drawn Author	Checked Checker



PRINT DATE
FILE PATH



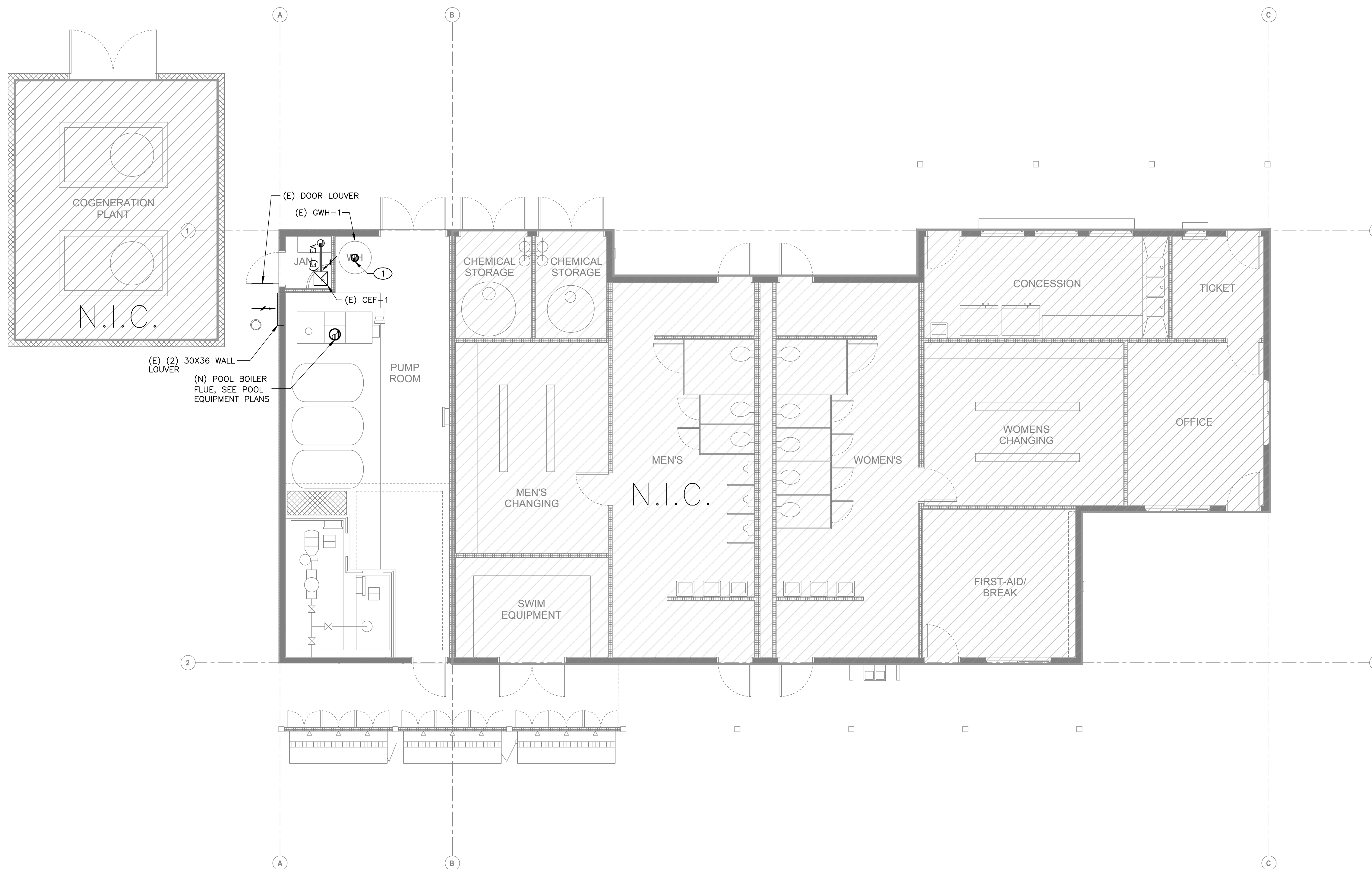
KEY NOTES

- ① INSTALL (N) PVC FLUE AND COMBUSTION AIR WITH CONCENTRIC VENT THROUGH ROOF IN (E) ROOF OPENING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE ARCHITECTURAL DRAWINGS FOR ROOF PATCHING.

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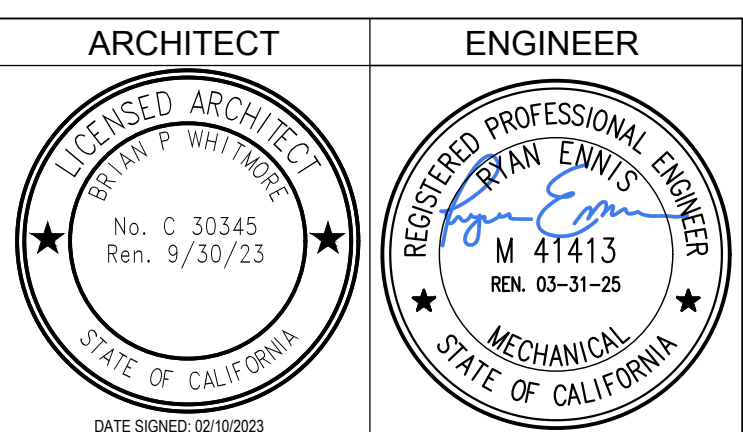


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Natomas Unified School District

PROJECT STATUS

NUSD Natomas HS
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MECHANICAL NEW FLOOR PLAN

Date: 02/10/2023
Application Number: XX-XXXXXX
Drawn: Author
Checked: Checker

Project Number: 22033
Drawing Number: M2.1

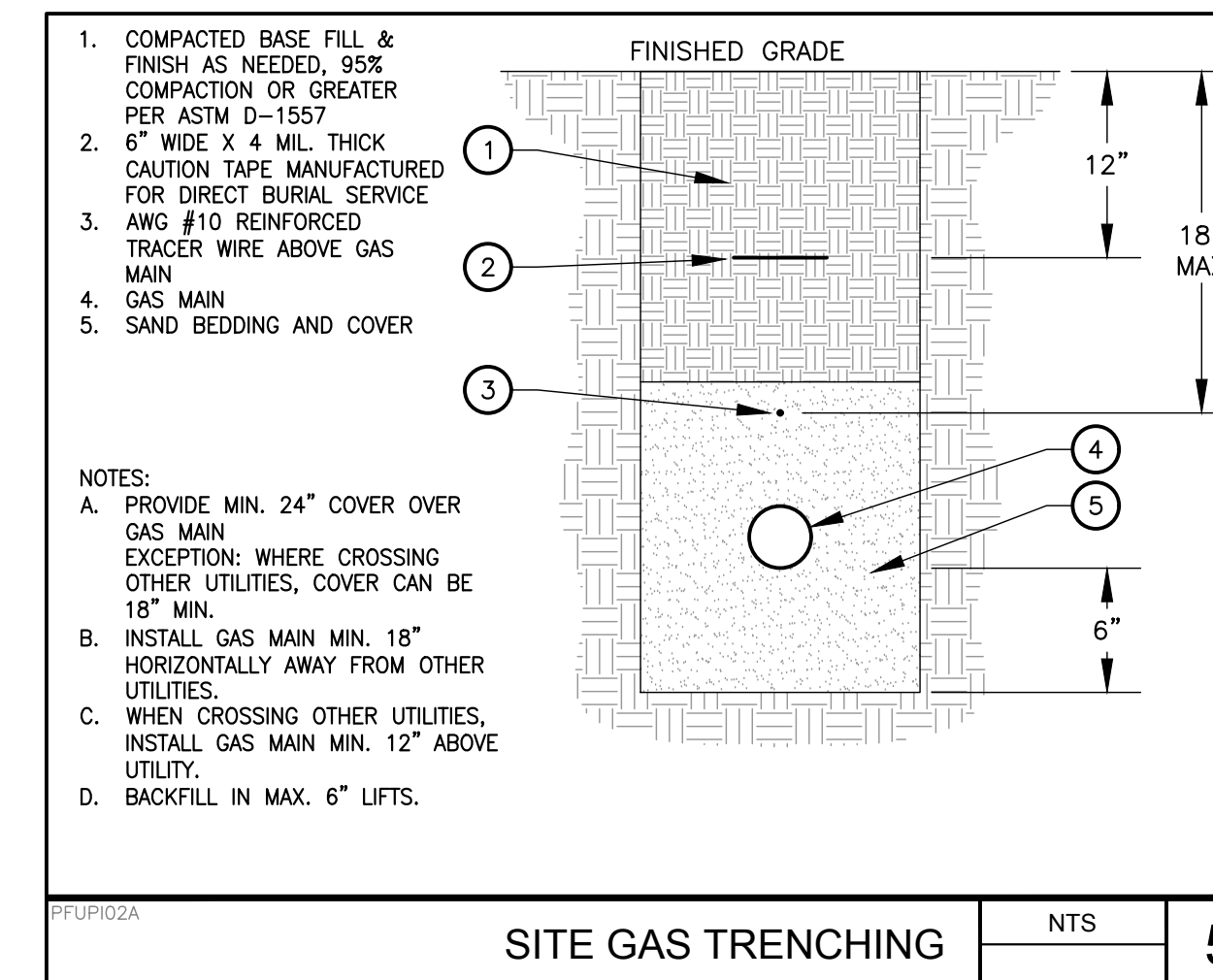


FIGURE 2A SITE GAS TRENCHING NTS 5

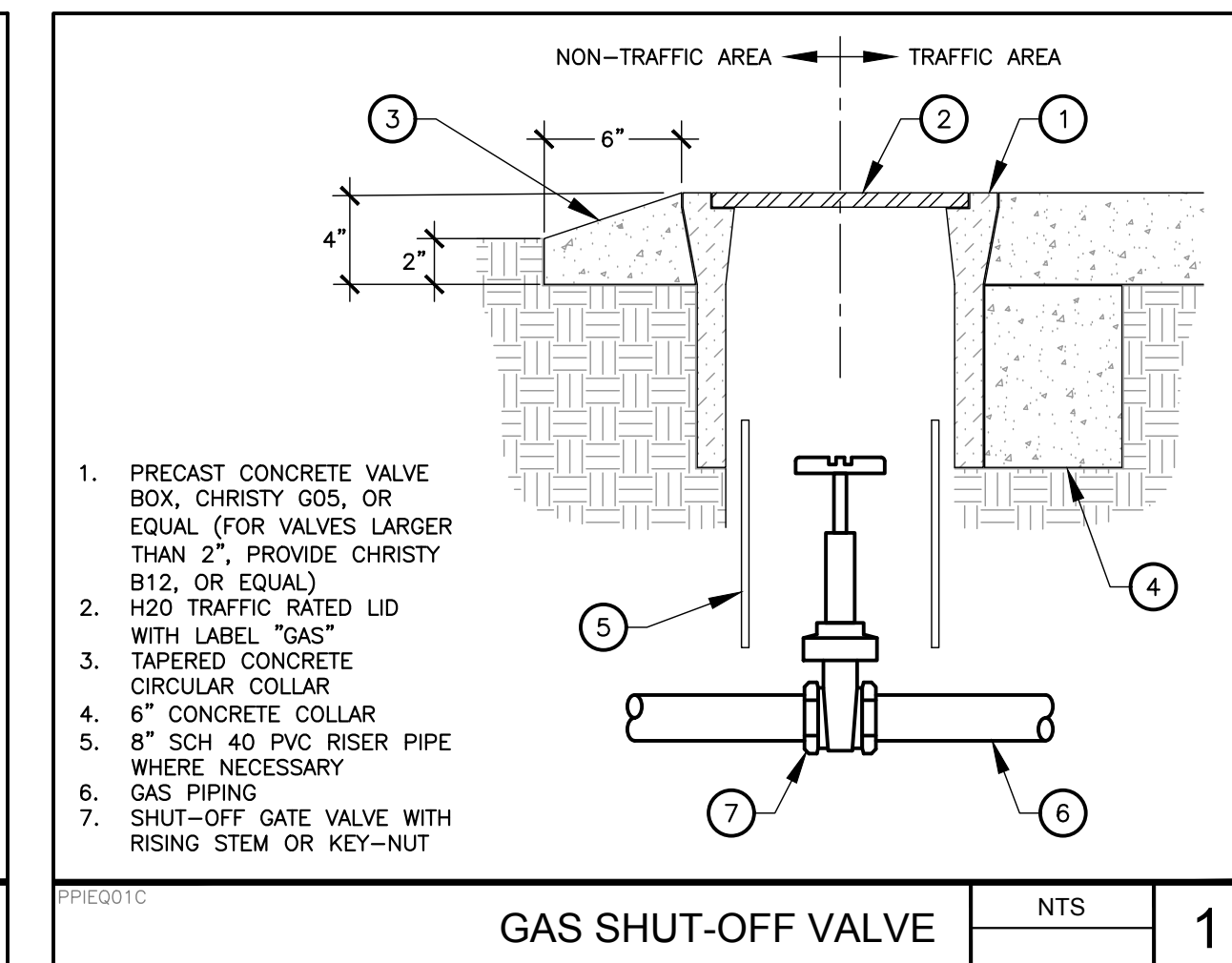
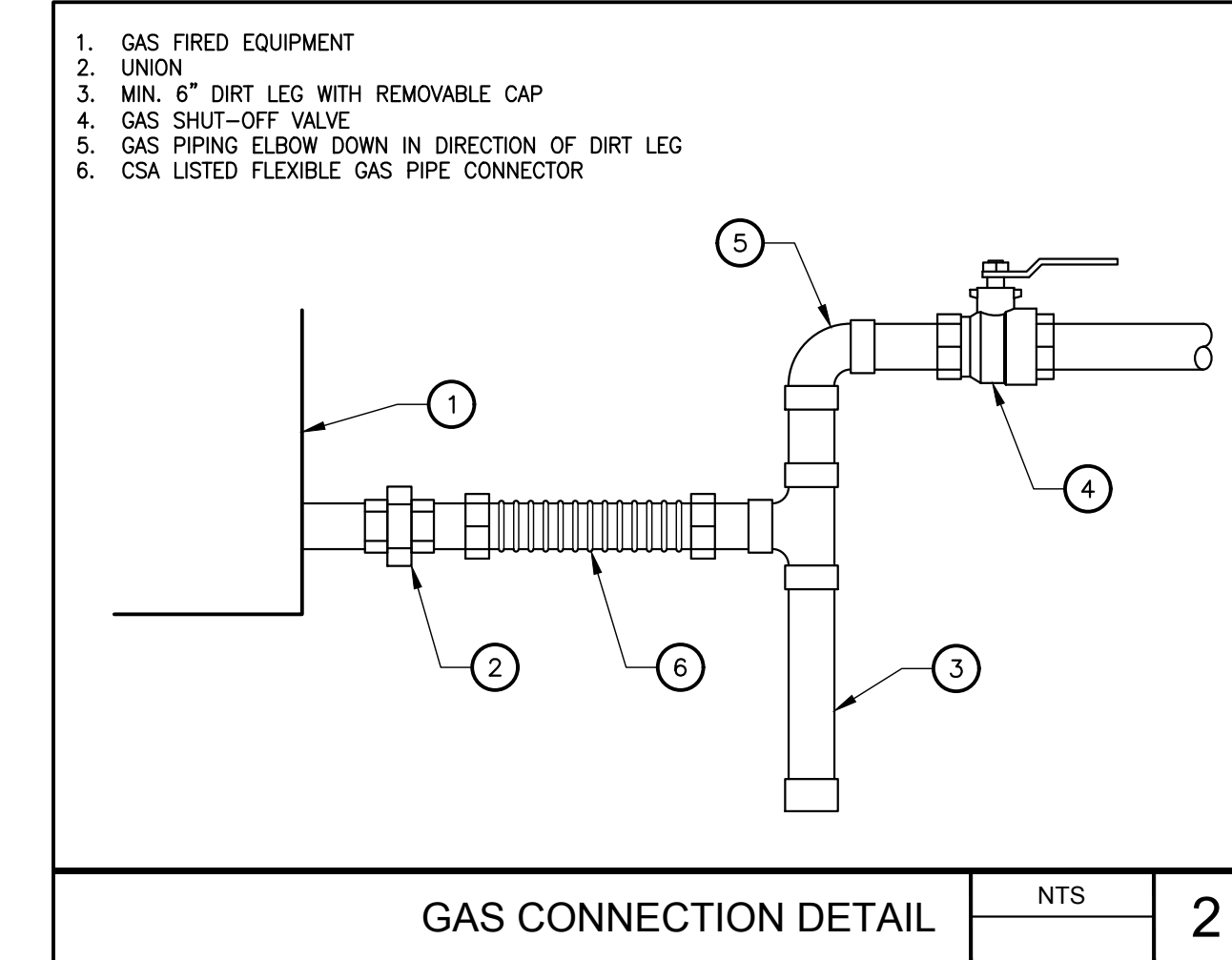


FIGURE 1 GAS SHUT-OFF VALVE NTS 1



GAS CONNECTION DETAIL NTS 2

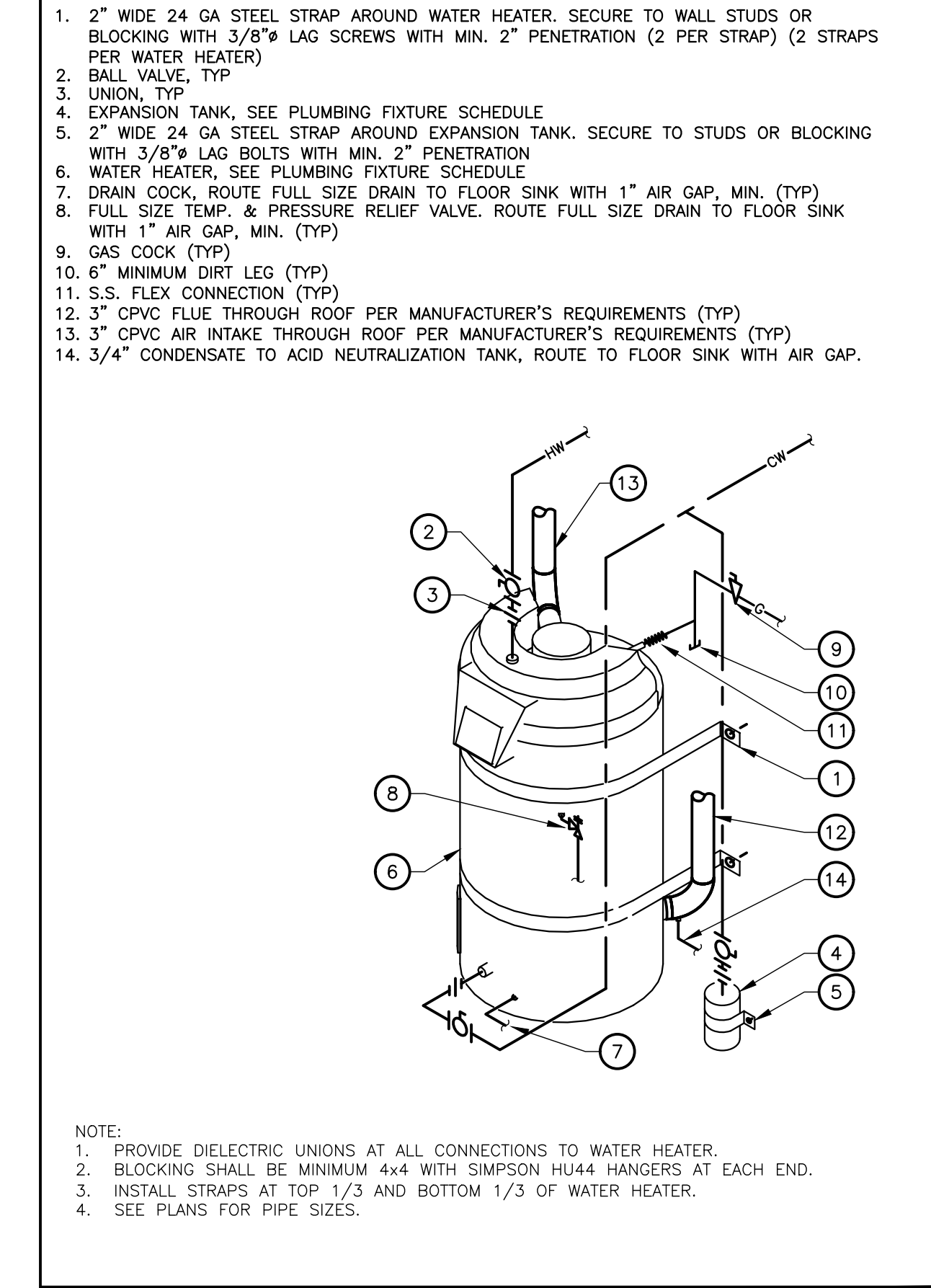


FIGURE 2B GAS WATER HEATER DETAIL NTS 3

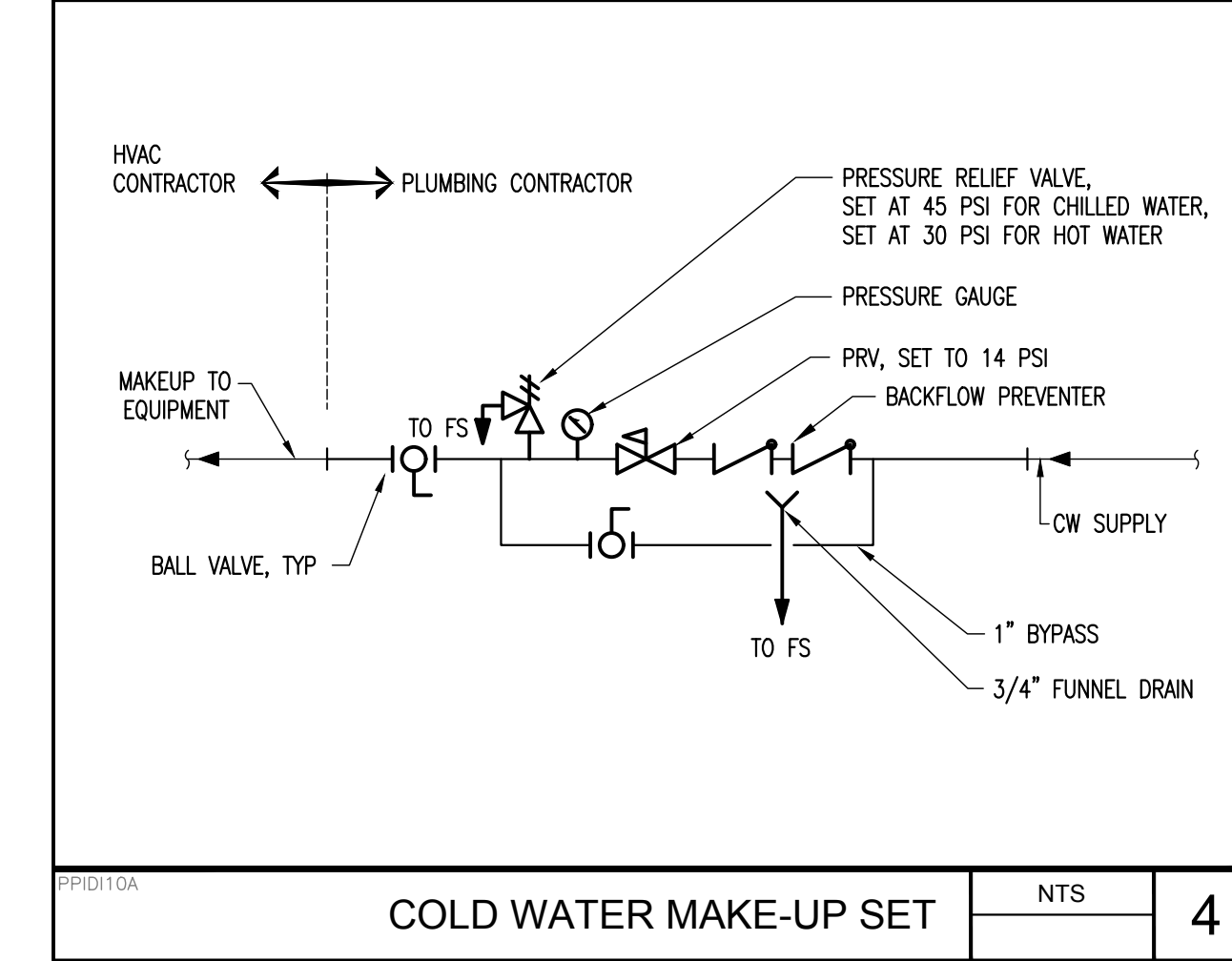
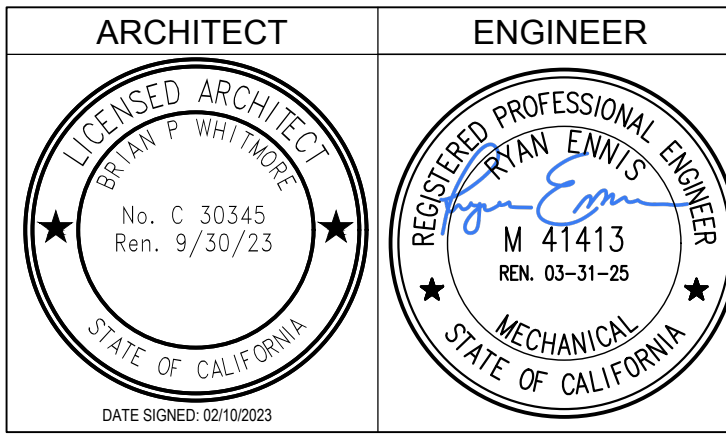


FIGURE 1A COLD WATER MAKE-UP SET NTS 4



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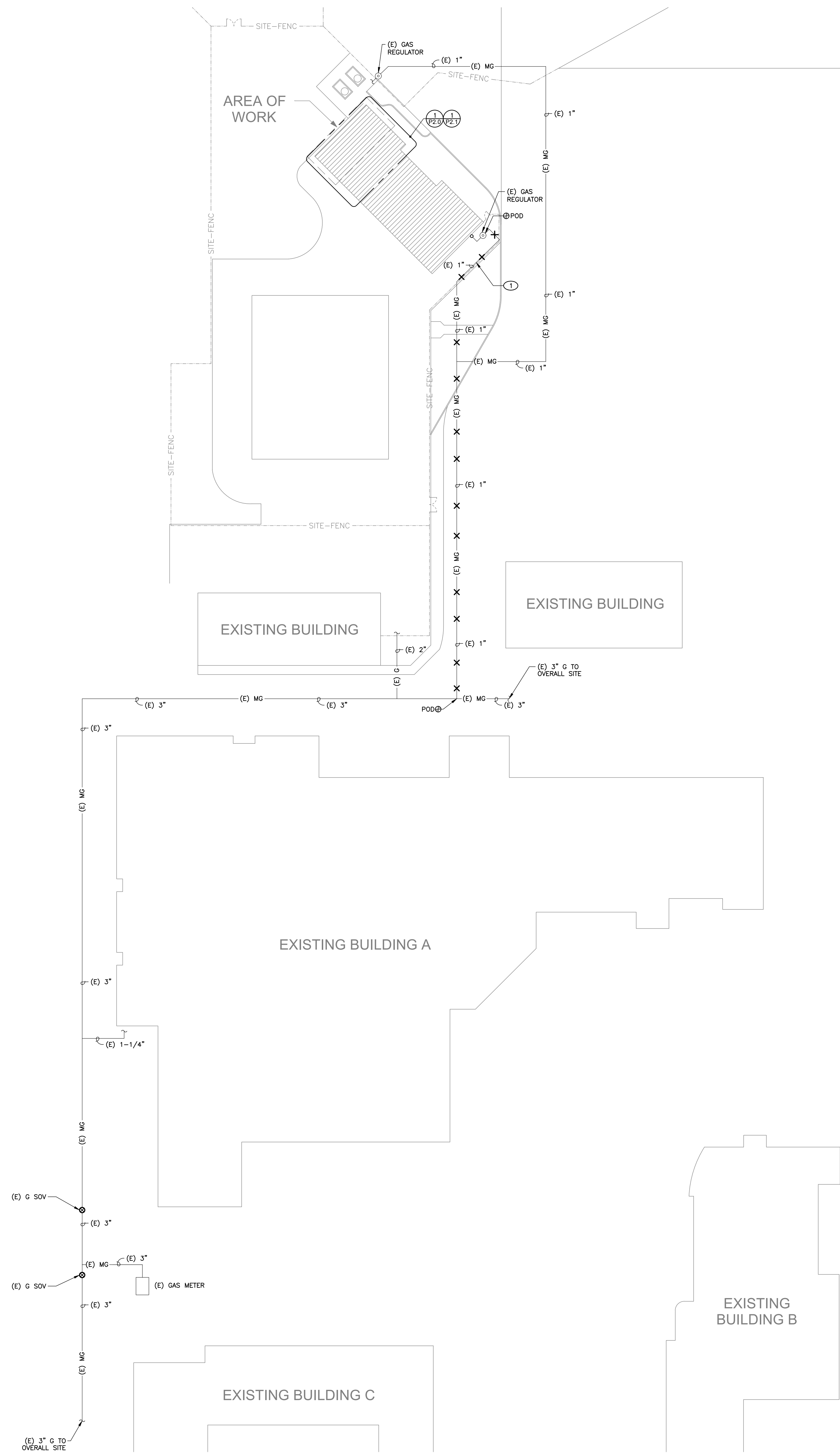
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PLUMBING DETAILS

Date: 02/10/2023
Project Number: 22033
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Drawing Number: P0.1
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Checked: []
Author: []
Checker: []



KEY NOTES

- ① REPLACE EXISTING PIPING SHOWN HATCHED BACK TO POD.

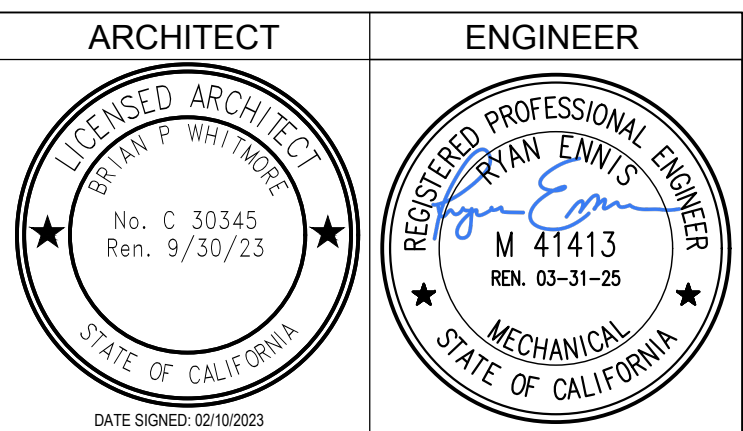
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KEY PLAN

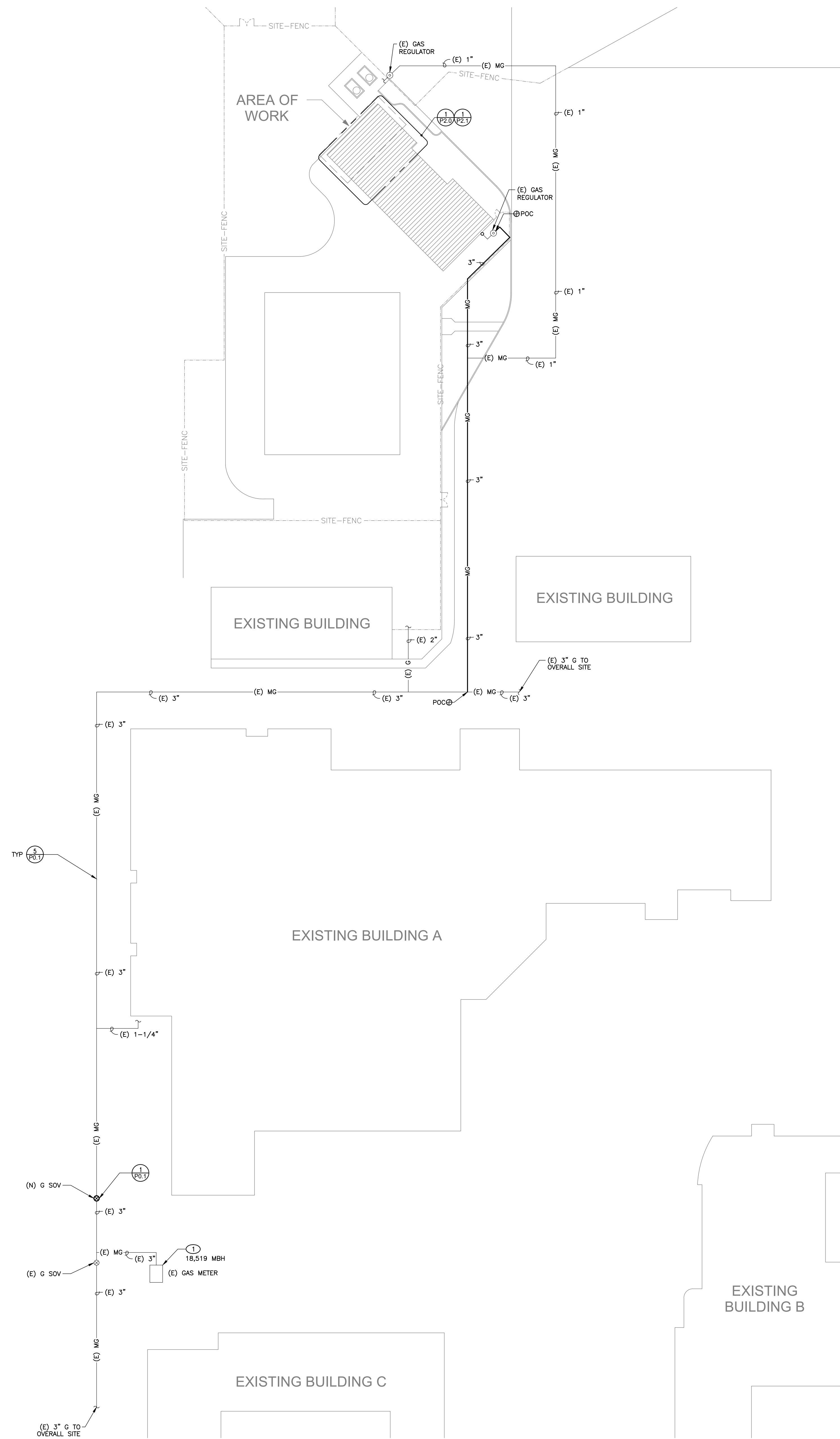
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PLUMBING DEMO
 SITE PLAN

Date 02/10/2023	Project Number 22033
Application Number XX-XXXXXX	Drawing Number P1.1
Drawn Author	Checked Checker



KEY NOTES

① COORDINATE NEW TOTAL GAS LOAD AT MAIN GAS METER WITH UTILITY COMPANY.

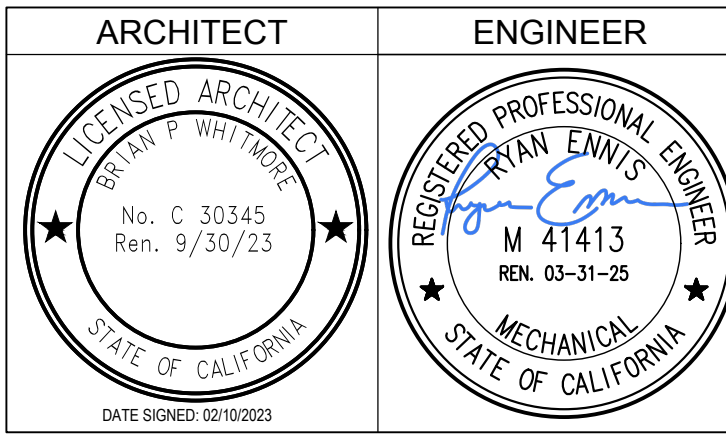
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PLUMBING SITE PLAN

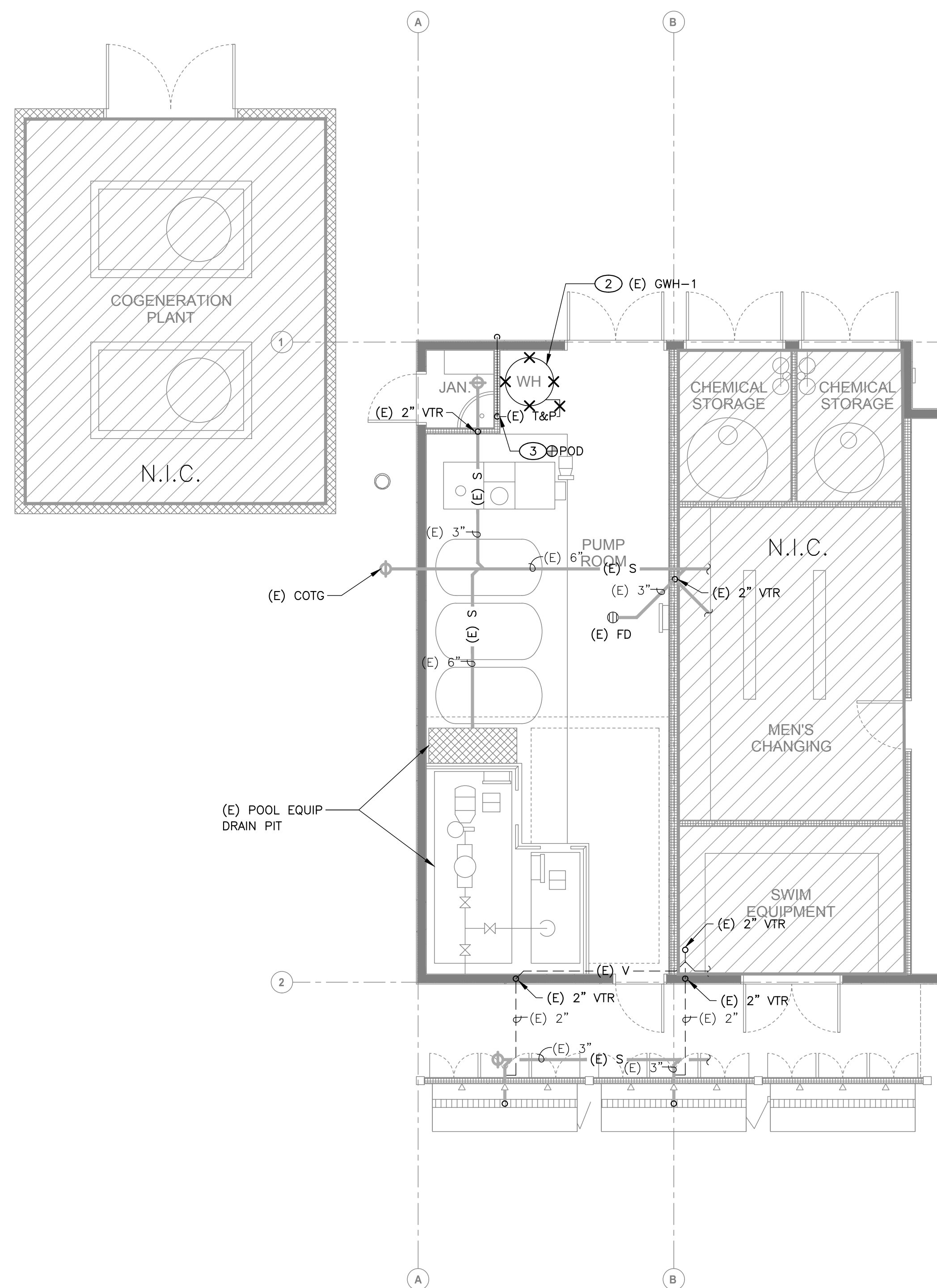
Date: 02/10/2023 Project Number: 22033
 Application Number: XX-XXXXXX Drawing Number: P1.1
 Drawn: Author Checked: Checker

KEY NOTES

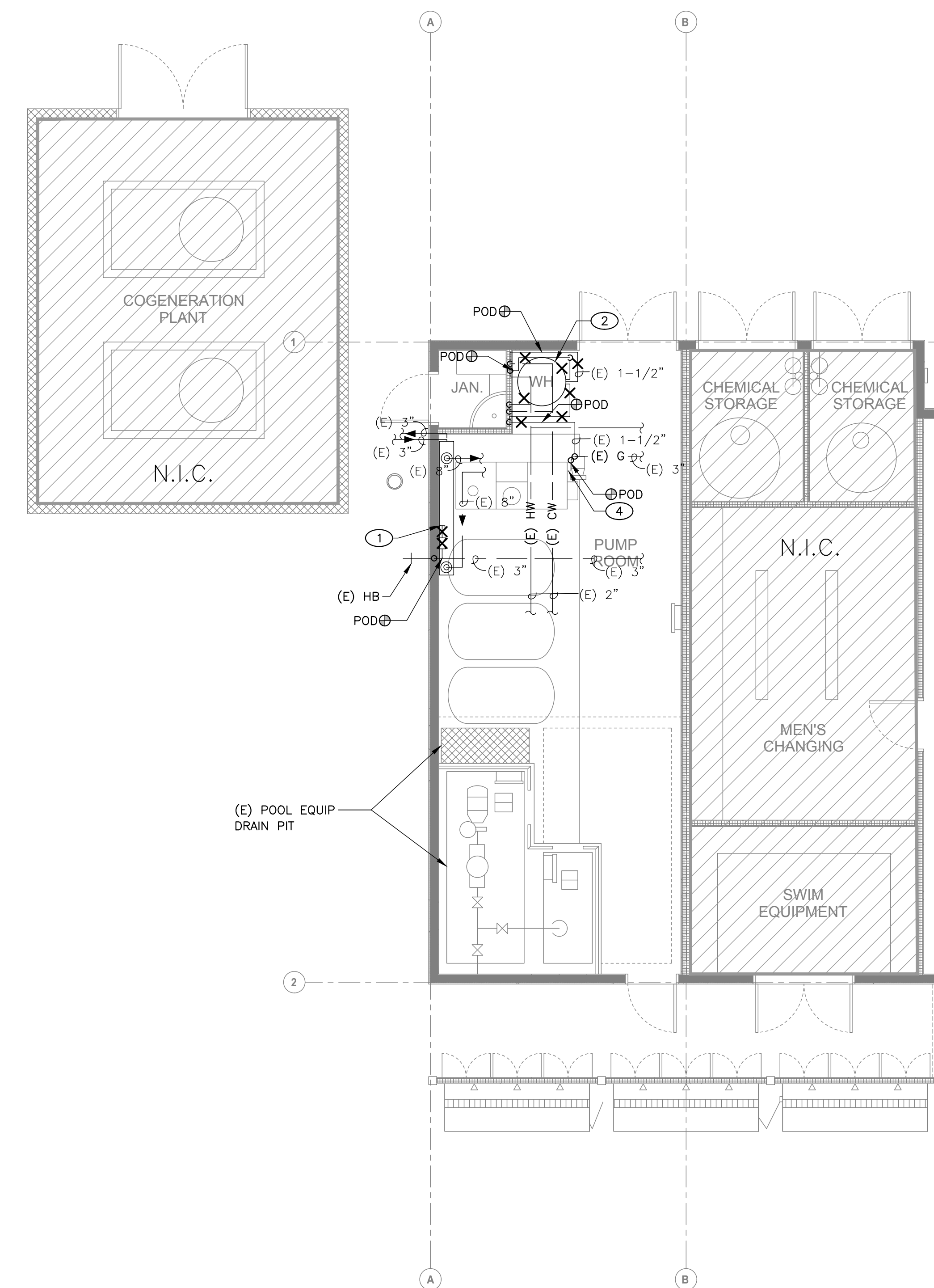
- ① REMOVE (E) CW MAKE-UP CONNECTION TO (E) POOL BOILER WITH BACKFLOW BACK TO POD.
- ② REMOVE (E) WATER HEATER SHOWN HATCHED.
- ③ REMOVE (E) WATER HEATER T&P RELIEF UP TO POD FOR CONNECTION TO (N) WATER HEATER.
- ④ REMOVE (E) 3" GAS CONNECTION TO POOL BOILER UP TO POD AT RISER. COORDINATE GAS LOCATION WITH (N) POOL BOILER.

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PLUMBING DEMO WASTE & VENT FLOOR PLAN | 3/16" = 1'-0" | ②

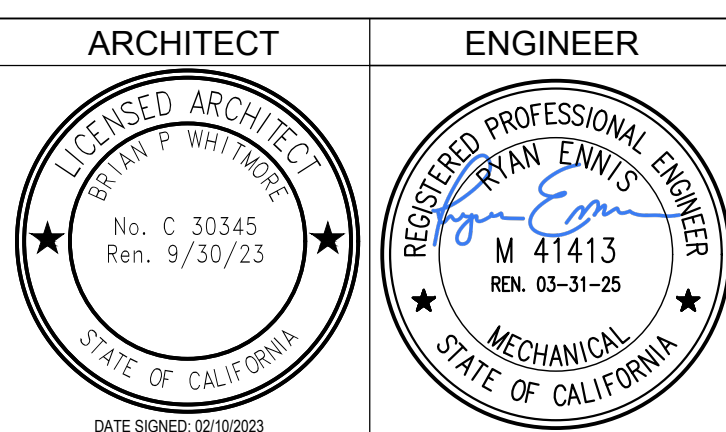


PLUMBING DEMO WATER & GAS FLOOR PLAN | 3/16" = 1'-0" | ①

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PLUMBING DEMO FLOOR PLAN

Date 02/10/2023	Project Number 22033
Application Number XX-XXXXXX	Drawing Number P2.0
Drawn Author	Checked Checker

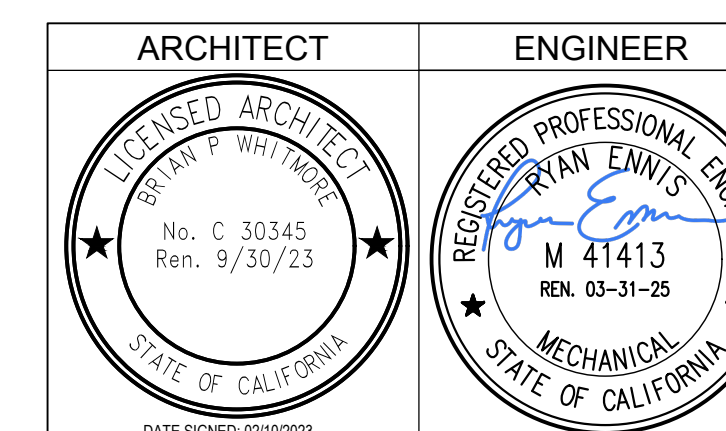
KEY NOTES

- ① ROUTE CONDENSATE DRAIN FROM WATER HEATER WITH ACID NEUTRALIZER TO FLOOR SINK WITH MIN. 1" AIRGAP.
- ② PROVIDE 3/4" CW MAKE-UP SET FOR CONNECTION TO POOL BOILER SYSTEM. COORDINATE WITH POOL EQUIPMENT CONTRACTOR FOR CONNECTION.
- ③ CONNECT (N) T&P RELIEF PIPING TO EXISTING CONNECTION IN WALL WITH DISCHARGE TO ABOVE GRADE OUTSIDE.
- ④ ROUTE FULL SIZE CONDENSATE DRAIN PIPING FROM POOL BOILER TO FLOOR SINK WITH MIN. 1" AIRGAP. COORDINATE WITH POOL EQUIPMENT CONTRACTOR FOR CONNECTION.
- ⑤ CONNECT (N) 3" GAS TO (N) POOL BOILER WITH SOV. COORDINATE WITH POOL EQUIPMENT CONTRACTOR FOR CONNECTION.

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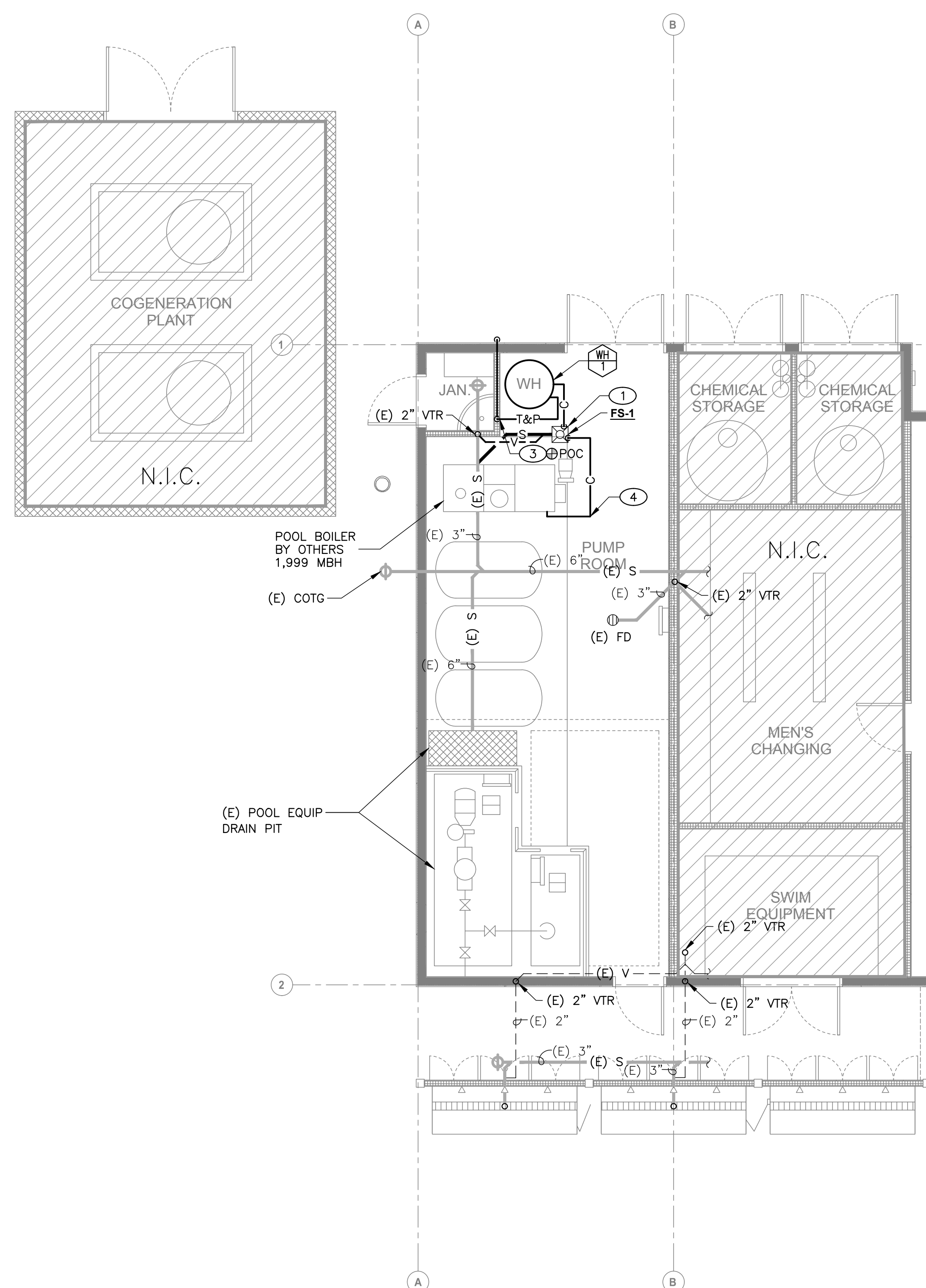
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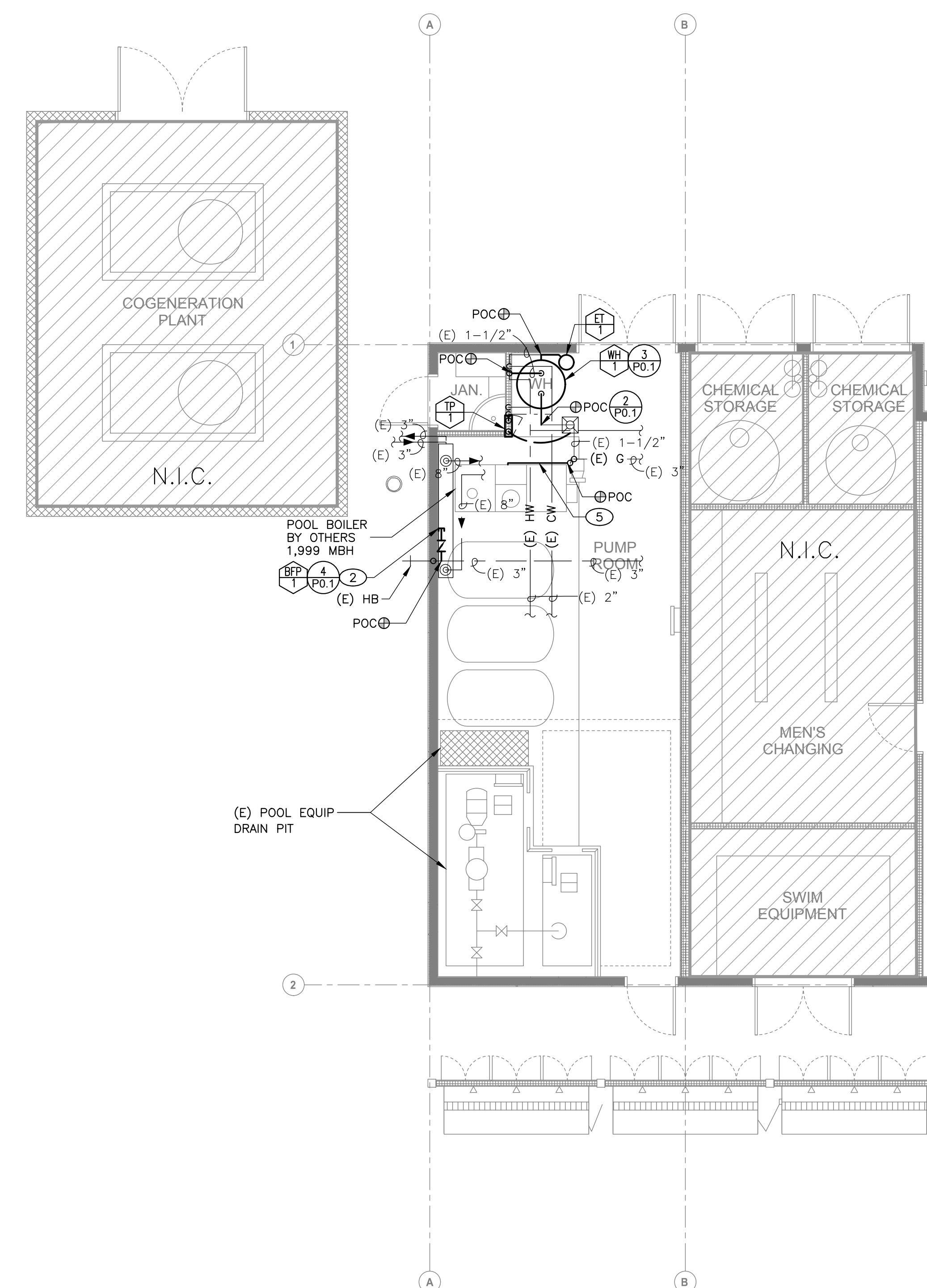
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PLUMBING NEW WASTE & VENT FLOOR PLAN | 3/16" = 1'-0" | 2



PLUMBING NEW WATER & GAS FLOOR PLAN | 3/16" = 1'-0" | 1



NO.	REMARKS	DATE

DATE

NO.	REMARKS	DATE

KEY PLAN

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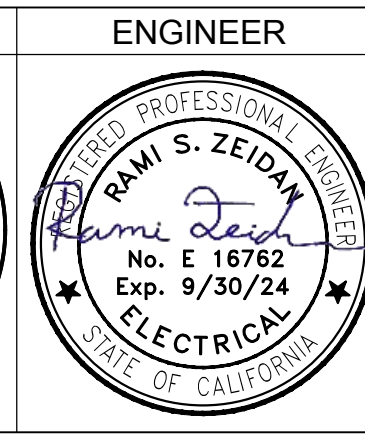
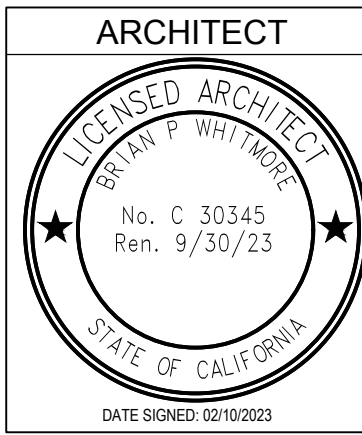
PLUMBING NEW FLOOR PLAN

Date 02/10/2023	Project Number 22033
Application Number XX-XXXXXX	Drawing Number P2.1
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ELECTRICAL OVERALL SITE PLAN

Date: 02/10/2023 Project Number: 22033

Application Number: XX-XXXXXX Drawing Number: E1.1

Drawn: _____ Checked: _____

Author: _____ Checker: _____



KEY NOTES

- ① DEMOLISHED GAS WATER HEATER; PROTECT AND RESERVE ASSOCIATED (E) 120V, 20A POWER CIRCUIT(S) FOR RECONNECTION TO (N) GAS WATER HEATER. SEE SHEET E2.1.
- ② DEMOLISHED GAS POOL HEATER; PROTECT AND RESERVE ASSOCIATED (E) 120V, 20A POWER CIRCUIT(S) FOR RECONNECTION TO (N) GAS POOL HEATER. SEE SHEET E2.1
- ③ (E) ELECTRICAL PANEL TO REMAIN.

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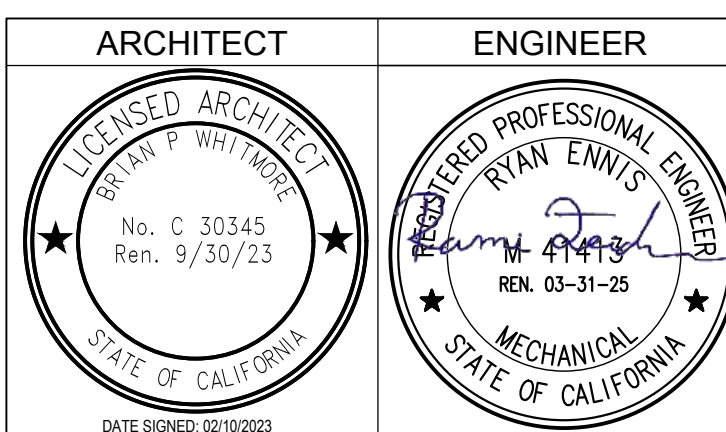


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ELECTRICAL DEMO FLOOR PLAN

Date 02/10/2023	Project Number 22033
Application Number XX-XXXXXX	Drawing Number E2.0
Drawn Author	Checked Checker

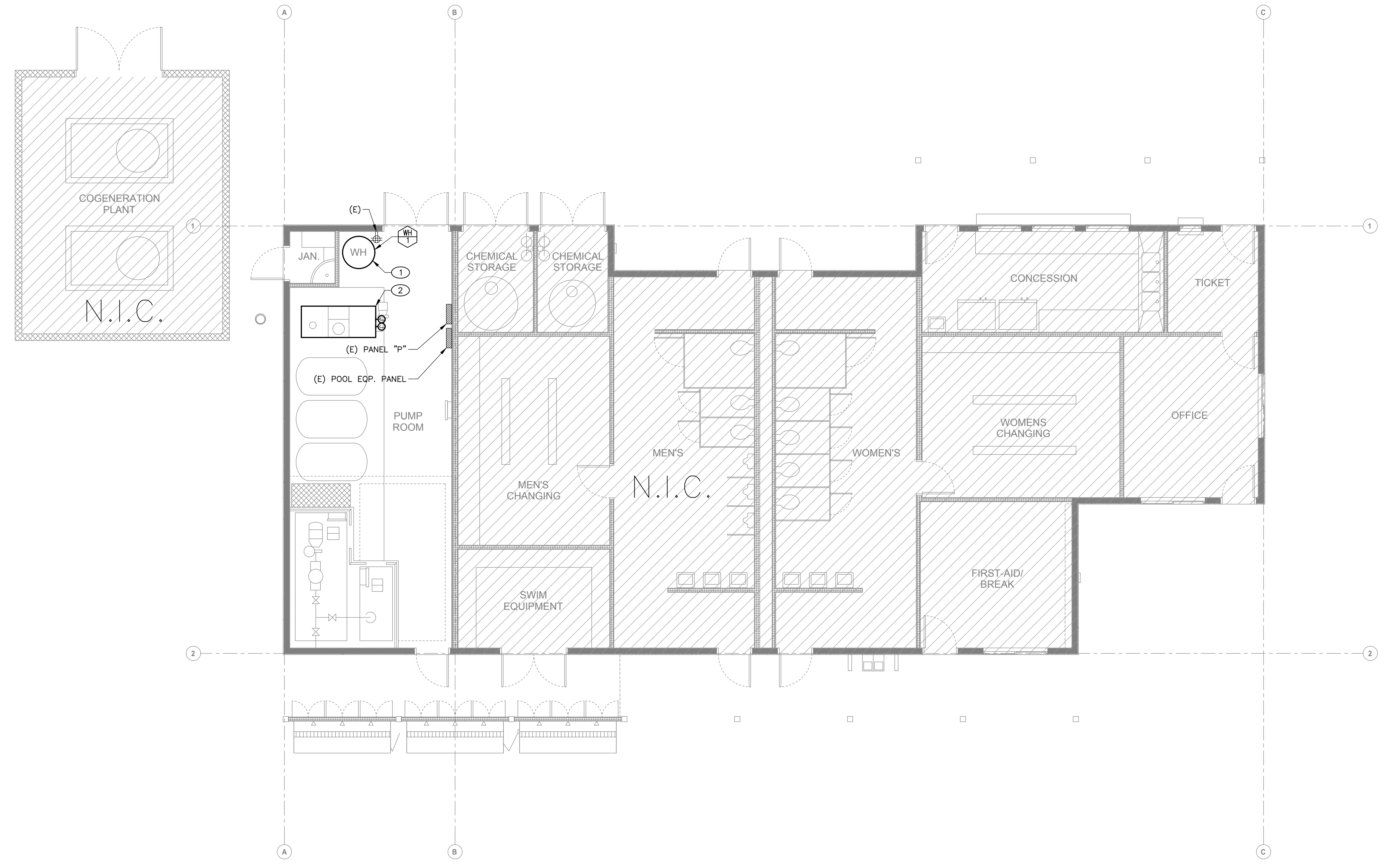
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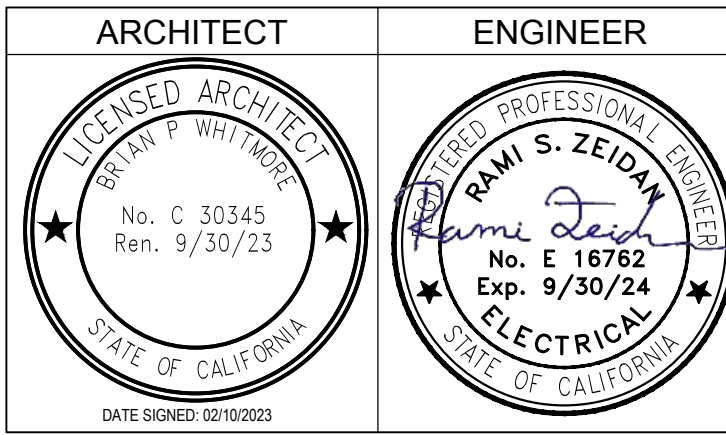
KEY NOTES

- ① (N) GAS WATER HEATER; RECONNECT BLOWER, IGNITION AND POWER VENT TO (E) 120V, 20A POWER CIRCUIT(S). EXTEND THE CIRCUIT(S) IF REQUIRED. VERIFY (E) CIRCUIT(S) CONDITION; IF (E) CIRCUIT(S) ARE NOT IN APPROPRIATE CONDITION PROVIDE (N) CIRCUIT(S) TO GAS WATER HEATER FROM (E) PANEL "P", AND DEMOLISH (E) CIRCUIT. SEE MECHANICAL DRAWINGS FOR MORE INFO.
- ② (N) GAS POOL HEATER; RECONNECT (E) 120V, 20A POWER CIRCUIT(S). EXTEND THE CIRCUIT(S) IF REQUIRED. VERIFY (E) CIRCUIT(S) CONDITION; IF (E) CIRCUIT(S) ARE NOT IN APPROPRIATE CONDITION PROVIDE (N) CIRCUIT(S) TO GAS POOL HEATER FROM (E) POOL EQUIPMENT PANEL "P", AND DEMOLISH (E) CIRCUIT(S). SEE POOL EQUIPMENT DRAWINGS FOR MORE INFO.



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ELECTRICAL FLOOR PLAN

Date 02/10/2023	Project Number 22033
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Drawn Author	Checked Checker

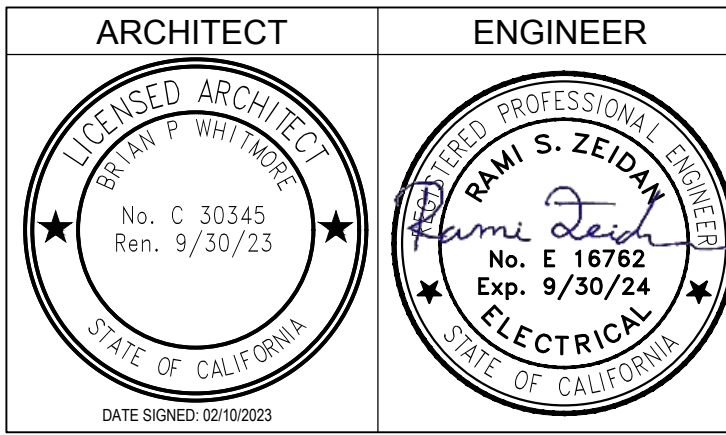
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(E) PANEL "P"
120/208 Volt, 3 Phase, 4 Wire
400 Amp BUS CU.
Amp MCB
400 Amp MLO
A.I.C. : 10000 A
PHASE SUMMARY (WATTS)
CTKT BKR (E) EXTERIOR LIGHTING 600
3 20/1 (E) PUMPS/MENS LIGHTING 1,400
5 20/1 (E) OFFICE/WOMENS LIGHTING 1,500
7 20/1 (E) PUMP RM. JAN CLOSET RECEPT. 1,300
9 20/1 (E) MISC. RECEPT 400
11 20/1 (E) FIRT AID/OFFICE RECEPT. 700
13 20/1 (E) STORAGE RM/TICKET RECEPT. 900
15 20/1 (E) POLE LIGHT GF/CI RECEPT. 600
17 20/1 (E) EXTERIOR LIGHTING 600
19 20/1 (E) CO-GEN PLANT
21 20/1 (E) SPARE
23 20/1 (E) SPARE
25 20/1 (E) SPARE
27 20/1 (E) REF-1 600
29 20/1 (E) EF-1 900
31 20/3 (E) AC-1 3,500
33 - - 3,500
35 - - 3,500
37 200/3 (E) POOL EQUIPMENT PANEL 25,000
39 - - 25,000
41 - - 25,000
PHASE TOTALS
A B C
37,500 38,400 40,700
DESCRIPTION BKR CKT
(E) LOC 20/1 2
(E) ITB RECEIPT 20/1 4
(E) MEN CHANGE RECEIPT 20/1 6
(E) MEN CHANGE RECEIPT 20/1 8
(E) MEN RESTRM. RECEIPT 20/1 10
(E) WOMEN RESTRM. RECEIPT 20/1 12
(E) WOMEN CHANGE RECEIPT 20/1 14
(E) WOMEN CHANGE RECEIPT 20/1 16
(E) WOMEN CHANGE RECEIPT 20/1 18
(E) CONCESSION RECEIPT 20/1 20
(E) CONCESSION RECEIPT 20/1 22
(E) CONCESSION RECEIPT 20/1 24
(E) CONCESSION RECEIPT 20/1 26
(E) CONCESSION RECEIPT 20/1 28
(E) CONCESSION RECEIPT 20/1 30
(E) FABP 20/1 32
(E) CHAIRLIFT PUMP 20/1 34
(E) SUMP/JUMP RECEIPT 20/1 36
(E) IRRIGATION CONTROL 20/1 38
(E) EXTERIOR POLE LIGHTS/EM 20/1 40
(E) EXTERIOR POLE LIGHTS/EM 20/1 42
DEMAND LOADS
LIGHTING / CONTINUOUS LOAD x 125% 5,125 Watts
RECEPTACLES / OTHER x 100% 112,500 Watts
LARGEST MOTOR x 25% 875 Watts
TOTAL DEMAND LOADS 118,500 Watts
TOTAL DEMAND AMPS 329 AMPS

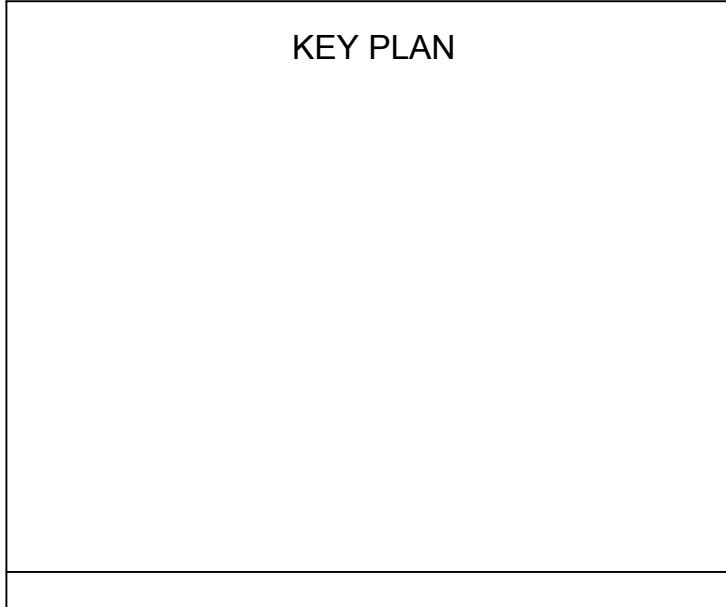
(E) POOL EQUIPMENT PANEL
120/208 Volt, 3 Phase, 4 Wire
200 Amp BUS CU.
Amp MCB
200 Amp MLO
A.I.C. : 22000
PHASE SUMMARY (WATTS)
CTKT BKR (E) POOL LIGHT 1,900
3 20/1 (E) POOL LIGHT 1,900
5 20/1 (E) POOL LIGHT 1,900
7 100/3 (E) CIRCULATION PUMP 8,400
9 - (E) CIRCULATION PUMP 8,400
11 - (E) CIRCULATION PUMP 8,400
13 20/1 (E) PRESS. AMP. PUMP 1,900
15 20/1 (E) CONTRACTOR CONTROL 1,900
17 20/1 (E) SPARE
19 20/1 (E) SPARE
21 20/1 (E) HEATER BYPASS PUMP 1,900
23 20/1 (E) SPARE
25 20/1 (E) SPARE
27 20/1 (E) SPARE
29 20/1 (E) SPARE
31 20/1 (E) SPARE
33 20/1 (E) SPARE
35 20/1 (E) SPARE
37 20/1 (E) SPARE
39 20/1 (E) SPARE
41 20/1 (E) SPARE
PHASE TOTALS
A B C
16,000 17,900 14,100
DESCRIPTION BKR CKT
(E) POOL LIGHT 20/1 2
(E) POOL LIGHT 20/1 4
(E) POOL LIGHT 20/1 6
(E) CHEMICAL CONTROLLER 20/1 8
(E) HEATER 20/1 10
(E) LIGHT CONTACTOR 20/1 12
(E) SPARE 20/1 14
(E) SPARE 20/1 16
(E) SPARE 20/1 18
(E) SPARE 20/1 20
(E) SPARE 20/1 22
(E) SPARE 20/1 24
(E) SPARE 20/1 26
(E) SPARE 20/1 28
(E) SPARE 20/1 30
(E) SPARE 20/1 32
(E) SPARE 20/1 34
(E) SPARE 20/1 36
(E) SPARE 20/1 38
(E) SPARE 20/1 40
(E) SPARE 20/1 42
DEMAND LOADS
LIGHTING / CONTINUOUS LOAD x 125% 16,625 Watts
RECEPTACLES / OTHER x 100% 34,700 Watts
LARGEST MOTOR x 25% 2,100 Watts
TOTAL DEMAND LOADS 53,425 Watts
TOTAL DEMAND AMPS 148 AMPS



- GENERAL NOTES
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REVISION HISTORY table with columns: NO., REMARKS, DATE

DRAWING STATUS: DSA PLAN CHECK, DSA BACK CHECK, BIDDING, CONSTRUCTION



Natomas Unified School District

PROJECT STATUS
NUSD Natomas HS POOL MODERNIZATION
3301 FONG RANCH ROAD
SACRAMENTO, CA 95834

ELECTRICAL PANEL SCHEDULES

Date: 02/10/2023, Project Number: 22033, Application Number: XX-XXXXXX, Drawing Number: E4.1