KERN COMMUNITY COLLEGE DISTRICT

Bakersfield College - Pool Equipment Building

MARCH 7, 2025

CONSTRUCTION DOCUMENTS

FILE NO.15-C1
03-124689

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

CIVIL ENGINEER
BLAIR, CHURCH & FLYNN
451 Clovis Avenue
Clovis, CA 93612
TEL (559) 326-1400

STRUCTURAL ENGINEER
JOHN A. MARTIN & ASSOCIATES, INC.
950 South Grand Ave, 4th Floor
Los Angeles, CA 90015
TEL (213) 483-6490

PLUMBING ENGINEER
P2S INC.
5000 East Spring Street, Suite 800
Long Beach, CA 90815
TEL (562) 497-2999

ELECTRICAL ENGINEER
P2S INC.
5000 East Spring Street, Suite 800
Long Beach, CA 90815
TEL (562) 497-2999

AQUATICS ENGINEER
COUNSILMAN-HUNSAKER
12851 Manchester Road, Suite 120
St. Louis, MO 63131
TEL (314) 894-1245

ARCHITECT STAMP	CONSULTANT STAMP
LICENSED ARCHITECT ALAN GLEN KROGER G-22474 REN. 10-31-25 STATE OF CALIFORNIA	

REVISIONS
0

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
COVER SHEET

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
G-000

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:47 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

KERN COMMUNITY COLLEGE DISTRICT

Bakersfield College - Pool Equipment Building

FILE NO.15-C1

03-124689

SYMBOLS

DRAFTING ITEMS

- DATUM - CONTROL POINT
- DIMENSION LINE AND TICK
- MATCHLINE - SEE: 1 / A101
- BREAK LINE
- KEYNOTE (01.23 A)
- PROJECT LEVEL MARKER (Name / Elevation)
- COLUMN GRID MARKER (0)
- REVISION CLOUD
- CMNT # REVISION TAG (1)
- PROJECT NORTH ARROW (PROJECT NORTH)

VIEW REFERENCES

- VIEW REFERENCE / SHEET REFERENCE (1 / A101, SIM)
- DETAIL VIEW (1 / A101, SIM)
- SECTION VIEW (1 / A101, TYP.)
- ENLARGED VIEW (A101, SIM)
- INTERIOR ELEVATION (1A / A-101 / 1A / 1A)
- VIEW REFERENCE / SHEET REFERENCE
- EXTERIOR ELEVATION (99 / A1-100)

ABBREVIATIONS

@	AT	ID	INSIDE DIAMETER
℄	CENTER LINE	INSUL	INSULATION OR INSULATED
d	PENNY	INV	INVERT
#	POUND	LAV	LAVATORY
⊥	PERPENDICULAR	MATL	MATERIAL
∠	ANGLE	MAX	MAXIMUM
AB	ANCHOR BOLT	MB	MACHINE BOLT
AC	ASPHALTIC CONCRETE	MECH	MECHANICAL
ACT	ACOUSTICAL CEILING TILE	MFR	MANUFACTURE OR MANUFACTURER
AFF	ABOVE FINISH FLOOR	MH	MAN HOLE
ALT	ALTERNATE	MIN	MINIMUM
ALUM	ALUMINUM	MISC	MISCELLANEOUS
ANOD	ANODIZED	MO	MASONRY OPENING
APPROX	APPROXIMATE	N	NORTH
ARCH	ARCHITECT OR ARCHITECTURAL	(N)	NEW
BD	BOARD	NIC	NOT IN CONTRACT
BLDG	BUILDING	NO OR #	NUMBER
BLK(G)	BLOCK(ING)	NTS	NOT TO SCALE
BOB	BOTTOM OF BEAM	OC	ON CENTER
BM	BEAM	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OPNG	OPENING
CI	CAST IRON	PL	PLATE OR PROPERTY LINE
CJ	CONSTRUCTION JOINT	PLAM	PLASTIC LAMINATE
CLG	CEILING	PLAS	PLASTER (NUMBER - SEE SPECS)
CLR	CLEAR	PLYWD	PLYWOOD
CMU	CONCRETE MASONRY UNIT	PNT	PAINT (NUMBER - SEE SPECS)
CO	CLEAN OUT	PTDF	PRESSURE TREATED DOUGLAS FUR
COL	COLUMN	QT	QUARRY TILE
CONC	CONCRETE	RD	ROOF DRAIN
CONT	CONTINUOUS	REF	REFRIGERATOR
CSK	COUNTERSINK	REINF	REINFORCE OR REINFORCING
CW	COLD WATER	RH	ROUND HEAD
CH	CHANNEL	RM	ROOM
DBL	DOUBLE	RO	ROUGH OPENING
DEPT	DEPARTMENT	RWD	REDWOOD
DET	DETAIL	S	SOUTH
DF	DRINKING FOUNTAIN	SCH	SCHEDULE
DIA	DIAMETER	SD	STORM DRAIN
DIAG	DIAGONAL	SHR	SHOWER
DN	DOWN	SHT	SHEET
DS	DOWNSPOUT	SHTHG	SHEATHING
DWG	DRAWING	SIM	SIMILAR
E	EAST	SMACNA	SPECHE ARCH SHEET METAL MANUAL
(E)	EXISTING	SQ	SPECIFICATION
EB	EXPANSION BOLT	SSTL	SQUARE
EJ	EXPANSION JOINT	STD	STAINLESS STEEL
ELEV	ELEVATION	STL	STANDARD
ELEC	ELECTRICAL)	SUSP	STEEL
EP	EDGE OF PAVING	SYM	SUSPENDED
EQ	EQUAL	TOB	SYMMETRICAL
EQUIP	EQUIPMENT	TOC	TOP OF BEAM
FD	FLOOR DRAIN	TCB	TOP OF CURB OR TOP OF CONCRETE
FE(C)	FIRE EXTINGUISHER (& CABINET)	TEL	TOP OF CATCH BASIN
FF	FINISHED FLOOR	TEMP	TELEPHONE
FG	FINISHED GRADE	T&G	TEMPERATURE OR TEMPERED
FH	FLAT HEAD OR FIRE HYDRANT	TF	TONGUE & GROOVE
FIN	FINISH	TS	TOP OF PAVING
FL	FLOW LINE	TV	STRUCTURAL TUBING
FLG	FLASHING	TOW	TELEVISION
FLR	FLOOR	TYP	TOP OF WALL
FOC	FACE OF CONCRETE		TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR
FOF	FACE OF FINISH		NOTED OTHERWISE)
FOM	FACE OF MASONRY	UON	UNLESS OTHERWISE NOTED
FOS	FACE OF STUD	VCT	VINYL COMPOSITION TILE
FRP	FIBERGLASS REINFORCED PANEL	VERT	VERTICAL
FT	FOOT OR FEET	VGDF	VERTICAL GRAIN DOUGLAS FIR
FTG	FOOTING	VTR	VENT THRU ROOF
GA	GAUGE	W	WEST
GALV	GALVANIZED	WC	WATER CLOSET
GB	GRAB BAR, GRADE BREAK	W.C.	WHEELCHAIR ACCESSIBLE
GL	GLASS	WD	WOOD
GLB	GLUE LAMINATED BEAM	WF	WIDE FLANGE
GYP	GYPSUM	WH	WATER HEATER
GWB	GYPSUM WALL BOARD	WP	WATERPROOF
HB	HOSE BIBB	WS	WOOD SCREW
HDR	HEADER	WSCT	WAINSCOT
HGT	HEIGHT	WWF	WELDED WIRE FABRIC
HORIZ	HORIZONTAL	W/	WITH
HTR	HEATER	W/O	WITHOUT
HVAC	HEATING/VENTILATING/AIR CONDITIONING		

GENERAL PROJECT NOTES

1. ALL WORK SHALL CONFORM TO THE BUILDING CODES LISTED IN THESE DOCUMENTS AND ALL CURRENT REVISIONS AND REGULATIONS AS INSTITUTED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
2. THE PROJECT MANUAL AND SPECIFICATIONS IN CONJUNCTION WITH THESE DRAWINGS AND REFERENCES SHALL FORM A PART OF THE CONTRACT AND SHALL BE REFERRED TO AS THE "DOCUMENTS." THE DOCUMENTS DEFINE THE WORK TO BE PERFORMED AS AGREED TO IN THE CONTRACT.
3. CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS
4. A DSA CERTIFIED INSPECTOR WITH MINIMUM CLASS 2 SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT.
5. APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
6. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
9. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 3 FOR DSA INSPECTION REQUIREMENTS.
10. ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
11. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
12. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, 2022 CBC SECTION 1616A.1.18 AND ASCE-7 SEC. 13.6. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
13. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA.
14. ALL BRACING OF DUCTS AND PIPES SHALL BE INSTALLED IN ACCORDANCE WITH THE CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30 AS APPROVED BY DSA. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE CODE SECTIONS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD ENGINEER. A COPY OF THE CODE SECTIONS PUBLISHED BY THE CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30 AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
15. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE NEW CONSTRUCTION, ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
16. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
17. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE THOROUGHLY FAMILIARIZE WITH THE DOCUMENTS. ALL DISCREPANCIES, CONFLICTS OR OMISSIONS WITHIN THE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION. FAILURE TO INFORM THE ARCHITECT PRIOR TO THE START OF WORK SHALL CONSTITUTE ACCEPTANCE OF THE DISCREPANCIES, CONFLICTS OR OMISSIONS BY THE CONTRACTOR AND THE WORK SHALL BE COMPLETED AS DEFINED IN THE DOCUMENTS WITHOUT ADDITIONAL COST OR TIME DUE TO THE DISCREPANCIES, CONFLICTS OR OMISSIONS.
18. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE ACQUAINTED WITH THE WORK OF OTHER TRADES WHOSE ACTIVITIES WILL ADJOIN OR BE AFFECTED BY THEIR WORK. THEY SHALL CONSULT WITH THESE OTHER CONTRACTORS OR WORKERS AND STUDY THEIR SHOP DRAWINGS IN ORDER TO COORDINATE THEIR EFFORT TOWARD AVOIDING MISTAKES, OMISSIONS, DISPUTES OR DELAYS.
19. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT AND CONSULTANTS SHALL NOT INCLUDE INSPECTIONS OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURE'S REQUIRED, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
20. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL REVIEW STRUCTURAL, MECHANICAL (HVAC), PLUMBING, ELECTRICAL, AND INTERIOR DRAWINGS FOR CURBS, PADS, WALL OPENINGS, BLOCKING IN WALLS, CEILING OPENINGS AND ROOF OPENINGS FOR SIZE, LOCATION AND APPLICABLE DETAILS. VERIFY FINAL ITEMS WITH SELECTED SUPPLIERS. ALL SUCH WORK IS A PART OF THE WORK.
21. ALL DIMENSIONS SHOWN ARE TAKEN TO CENTERLINE OF COLUMNS, GRID LINES, THE FACE OF STUD, FACE OF MASONRY OR FACE OF CONCRETE UNLESS NOTED OTHERWISE. VERIFY ALL DIMENSIONS AT THE SITE.
22. DO NOT SCALE DRAWINGS, DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE.
23. REFERENCE TO ANY PARTICULAR DETAIL OR DRAWINGS IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWING. NOTES AND DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS NOTED OTHERWISE.
24. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL MAKE FIELD MEASUREMENTS NECESSARY FOR THIS WORK, AND BE RESPONSIBLE FOR THEIR ACCURACY. VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS OF THE WORK BEFORE AND DURING CONSTRUCTION.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL PROTECTIVE WALLS, FENCES AND BARRIERS TO SAFEGUARD THE PUBLIC FROM THE CONSTRUCTION WORK FOR THE ENTIRE TIME THE CONSTRUCTION IS IN PROGRESS.
26. THE LOCATION OF ALL STAGING, PARKING, LOADING AND STORAGE OF MATERIALS, EQUIPMENT AND EMPLOYEES ON THE SITE SHALL BE VERIFIED WITH AND APPROVED IN WRITING BY THE OWNER.
27. THE CONTRACTOR SHALL DETERMINE LOCATION OF UTILITY SERVICES IN THE AREA OF WORK PRIOR TO BEGINNING EXCAVATION.
28. NO PIPES, DUCTS, SLEEVES, CHASES OR CONDUIT SHALL BE PLACED IN CONCRETE SLABS, CONCRETE BEAMS OR CONCRETE BLOCK WALLS UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
29. ALL PIPING, CONDUIT AND DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE, TIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE CEILINGS, WITHIN WALLS OR IN CONCEALED SPACES UNLESS NOTED OTHERWISE.
30. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTS, SLEEVES, CHASES OR CONDUIT UNLESS SPECIFICALLY SHOWN OR NOTED.
31. IF ASBESTOS IS ENCOUNTERED, INFORM OWNER IMMEDIATELY.
32. FACILITIES: THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SANITARY TOILET FACILITIES ON SITE FOR THE ENTIRE TIME THAT CONSTRUCTION IS IN PROGRESS.
33. THE CONTRACTOR SHALL MAINTAIN THE SITE, BUILDING(S) AND ADJACENT STREETS CLEAN AND FREE OF ACCUMULATION OF CONSTRUCTION DEBRIS.
34. MINIMUM R VALUES UNLESS OTHERWISE NOTED
    a. WALLS – R19 CEILINGS – R19 ROOF –R30
35. EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.

PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF A NEW POOL EQUIPMENT BUILDING TO HOUSE ALL NEW AND EXISTING POOL EQUIPMENT AND ASSOCIATED SITE WORK FOR BOTH SWIMMING POOLS ON THE BAKERSFIELD COLLEGE CAMPUS. THE SCOPE OF THE NEW POOL EQUIPMENT BUILDING INCLUDES EQUIPMENT AND STORAGE SPACES FOR THE POOL EQUIPMENT AND POOL CHEMICALS.

SITE WORK INCLUDES UNDERGROUND UTILITIES INCLUDING POOL EQUIPMENT, FENCING AND GATES, WARM-UP POOL DECK (INCLUDING BUT NOT LIMITED TO NEW CONCRETE POOL DECK, REINSTALLATION OF POOL ACCESSORIES, UTILITIES, DEPTH AND SIGNAGE MARKERS, ETC.), AND EXTERIOR LIGHTING.

GENERAL BUILDING AREAS:

BLDG #	NAME	AREA
A	POOL EQUIPMENT BUILDING	1,439 SF

DEFERRED APPROVAL

CONTRACTOR SHALL PROVIDE AND SUBMIT ENGINEERING CALCULATIONS, SHOP DRAWINGS AND OTHER EXHIBITS AND PAY PLAN CHECK FEES REQUIRED FOR DEFERRED SUBMITTAL WORK AND TO OBTAIN PERMITS PRIOR TO COMMENCING INSTALLATION OF THE WORK ON SITE:

A. NONE

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 OF OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDING 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.

APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES
ALL PARTS OF THE TITLE 24 CODE SHOWN BELOW HAVE AN EFFECTIVE DATE OF **JANUARY 1, 2023** EXCEPT:
- CALIFORNIA ADMINISTRATIVE CODE - EFFECTIVE **MARCH 5, 2022**

California Administrative Code (CAC) - CCR, TITLE 24, Part 1

California Building Code (CBC) - CCR, TITLE 24, Part 2
(2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)

California Electrical Code (CEC) - CCR, TITLE 24, Part 3
(2021 National Electrical Code and 2022 California Amendments)

California Mechanical Code (CMC) - CCR, TITLE 24, Part 4
(2021 IAPMO Uniform Mechanical Code and 2022 California Amendments)

California Plumbing Code (CPC) - CCR, TITLE 24, Part 5
(2021 IAPMO Uniform Plumbing Code and 2022 California Amendments)

California Energy Code (CEC) - CCR, TITLE 24, Part 6

California Fire Code (CFC) - CCR, TITLE 24, Part 9
(2021 International Fire Code and 2022 California Amendments)

California Existing Building Code (CEBC) - CCR, TITLE 24, Part 10

California Green Building Standards Code (CALGreen) - CCR, TITLE 24, Part 11

California Referenced Standards Code - CCR, TITLE 24, Part 12
(Public Safety, State Fire Marshal Regulations)

PARTIAL LIST OF APPLICABLE STANDARDS AS OF JANUARY 1, 2023*

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

NFPA 10-21 - Standard for PORTABLE FIRE EXTINGUISHERS

NFPA 12-15 - STANDARD ON CARBON DIOXIDE EXTINGUISHING SYSTEMS

NFPA 12A-18 - STANDARD ON HALON 1301 FIRE EXTINGUISHING SYSTEMS

NFPA 13-22 - Standard for the Installation of Sprinkler Systems (AS AMENDED)

NFPA 14-19 - Standard for the Installation of Standpipe and Hose Systems

NFPA 17-21 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS

NFPA 17A-21 - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS

NFPA 20-19 - Standard for the Installation of Stationary Pumps for Fire Protection

NFPA 24-19 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (AS AMENDED)

NFPA 72-22 - National Fire Alarm and Signaling Code (aS AMENDED)

NFPA 80-19 - Standard for Fire Doors and Other Opening Protectives

UL 464-03 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories

UL 521-99 - Standard for Heat Detectors for Fire Protective Signaling Systems

UL 1971-2002(r2010) - Standard for Signaling Devices for the Hearing Impaired

SHEET INDEX

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1. OVERALL GENERAL INFORMATION	
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G-101	SITE PLAN - FIRE ACCESS DIAGRAM
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G-103	ENLARGED CODE SITE PLAN
G-201	CODE FLOOR PLAN
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C-101	TOPOGRAPHIC SURVEY
C-200	DEMOLITION PLAN
C-300	SITE AND DIMENSION PLAN
C-400	GRADING AND DRAINAGE PLAN
C-500	UTILITY PLAN
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4. ARCHITECTURAL DRAWINGS	
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A-211	REFLECTED CEILING PLAN
A-221	ROOF PLAN
A-251	FINISH PLAN
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A-253	3D VIEWS - EXTERIOR
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A-501	PLAN ENLARGMENTS
A-601	INTERIOR ELEVATIONS
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A-902	WALL & ROOF DETAILS
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ARCHITECTURAL SHEETS TOTAL: 23	
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S-103	TYPICAL DETAILS
S-104	TYPICAL DETAILS
S-105	TYPICAL DETAILS
S-106	TYPICAL DETAILS
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S-108	TYPICAL DETAILS
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S-202	ROOF FRAMING PLAN
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S-501	SECTIONS AND DETAILS
STRUCTURAL SHEETS TOTAL: 17	

SHEET #	SHEET NAME
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E-101	SITE PLAN
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E-202-P	POOL EQUIPMENT BUILDING PHOTOMETRICS PLAN
E-203	POOL EQUIPMENT BUILDING FLOOR PLAN - AUXILIARY
E-501	SINGLE LINE DIAGRAM
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E-701	TITLE 24 - INDOOR LIGHTING
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AQ-300	RENOVATION PLAN
AQ-301	WARM-UP POOL DETAILS
AQ-400	POOL PIPING PLANS
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AQ-600	SURGE TANK PLAN & SECTIONS
AQ-700	POOL MECHANICAL DETAILS
AQ-701	POOL MECHANICAL DETAILS
AQ-702	POOL MECHANICAL DETAILS
AQ-800	POOL SYSTEM SCHEMATICS
AQUATICS SHEETS TOTAL: 13	
OVERALL SHEET TOTAL: 89	

STATEMENT OF GENERAL CONFORMANCE

THE DRAWINGS SHEETS LISTED ON THE SHEET INDEX OF THIS COVER HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT, AND IT APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE *"SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF EDUCATION CODE, AND SECTIONS 4-336, 4-341 AND 4-334 OF TITLE 24, PART 1 (TITLE 24, PART 1, SECTION 4-317 (B)).*

I FIND THAT: ■ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

☐ THIS DRAWING OR PAGE

■ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

■ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

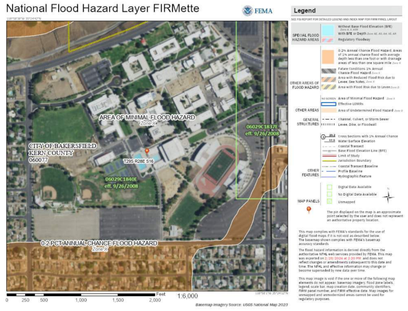
SIGNATURE — MARCH 7, 2025 DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

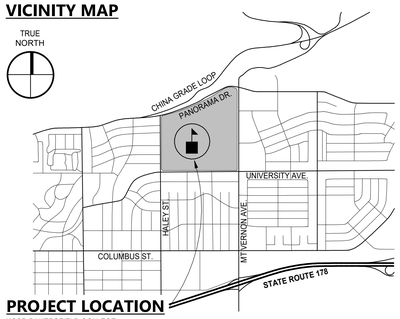
ALAN KROEKER
PRINT NAME

C-22474 — LICENSE NUMBER — 10-31-25 EXPIRATION DATE

National Flood Hazard Layer FIRMette



VICINITY MAP



PROJECT LOCATION

KCCD BAKERSFIELD COLLEGE

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

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AQUATICS ENGINEER
COUNSILMAN-HUNSAKER
12851 Manchester Road, Suite 120
St. Louis, MO 63131
TEL (314) 894-1245

ARCHITECT STAMP

LICENSED ARCHITECT ALAN GLEN KROEKER C-22474 REN. 10-31-25 STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION
	10-04-2024	DSA SUBMITTAL
	03-06-2025	DSA SUBMITTAL - V2

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

TITLE SHEET

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.

G-001

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:48 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

BUILDING INFO NOTES

BLDG ID	BUILDING NAME	DSA A#
1	(E) CHILD DEVELOPMENT CENTER	03-102944, 03-101128
2	(E) FAMILY AND CONSUMER EDUCATION	A-30573, 03-122405, 03-124642
3	(E) HUMANITIES	A-11900, 03-121376, 03-122210, 03-122405
4	(E) GET TRANSIT CENTER	02-111473
5	(E) NORMAN LEVAN CENTER	03-111784
6	(E) BUSINESS	03-118883
7	(E) ADMINISTRATION	02-112107, 03-103434, 03-118883
8	(E) CENTER FOR STUDENT SERVICES	A-11900, A-32686, A-58135, 02-112107, 03-103559, 03-118340, 03-115792, 03-115628
9	(E) PERFORMING ARTS CENTER	02-111686, 03-115372
10	(E) SCIENCE / ENGINEERING	A-11900, A-58135, A-39682, 03-115937, 03-114811, 03-120006, 03-123712
11	(E) GENERAL SCIENCE	A-11714
12	(E) APPLIED SCIENCE & TECHNOLOGY	A-12796, 03-107529, 03-121924, 03-122405
13	(E) HORTICULTURE LAB	03-122237
14	(E) AGRICULTURE	03-122075
15	(E) STEM	A-13466, 03-116091
16	(E) MATH / SCIENCE	A-20984, A-58135, A-59527, 03-108011, 03-115628, 03-121655, 03-120500, 03-122596
17	(E) MEMORIAL STADIUM	A-11440, A-67256, 03-119704, 03-116088, 03-107100, 03-106620, 03-120073, 03-116379, 03-118381, 03-1222905
18	(E) COMBINED GYM & FIELD HOUSE	03-120152
19	(E) GYMNASIUM	A-11714, 03-115566
20	(E) POOL BLDG - DEMO UNDER SEPARATE PERMIT	
21	(E) WARM-UP POOL	A-11714
22	(E) POOL	03-104296
23	(E) FORUM	A-27967
24	(E) LANGUAGE ARTS - SHAFER HALL	A-12796, A-58135, 03-113971, 03-115628, 03-122405
25	(E) CAMPUS CENTER	02-112107, 03-122168, 03-118883
26	(E) BUSINESS SERVICES	03-104504, 03-121587
27	(E) LEVINSON HALL	03-122124
28	(E) MAINTENENCE AND OPERATIONS	03-116132
29	(E) BASEBALL FIELD	03-111011, 03-100486

Hydrant Flow Test Report

Test Date 9/27/2024 **Test Time** 9:15am

Location
BAKERSFIELD COLLEGE - POOL EQUIPMENT
1801 PANORAMA DR.
BAKERSFIELD, CA. 93305

Tested by
JAKE BUSTOS &
HECTOR CONTRERAS
CONTROL FIRE PROTECTION, INC.
1347 OGDEN ST.
BAKERSFIELD, CA. 93305

Notes
HYDRANT A - FLOW
HYDRANT B - STATIC/ RESIDUAL

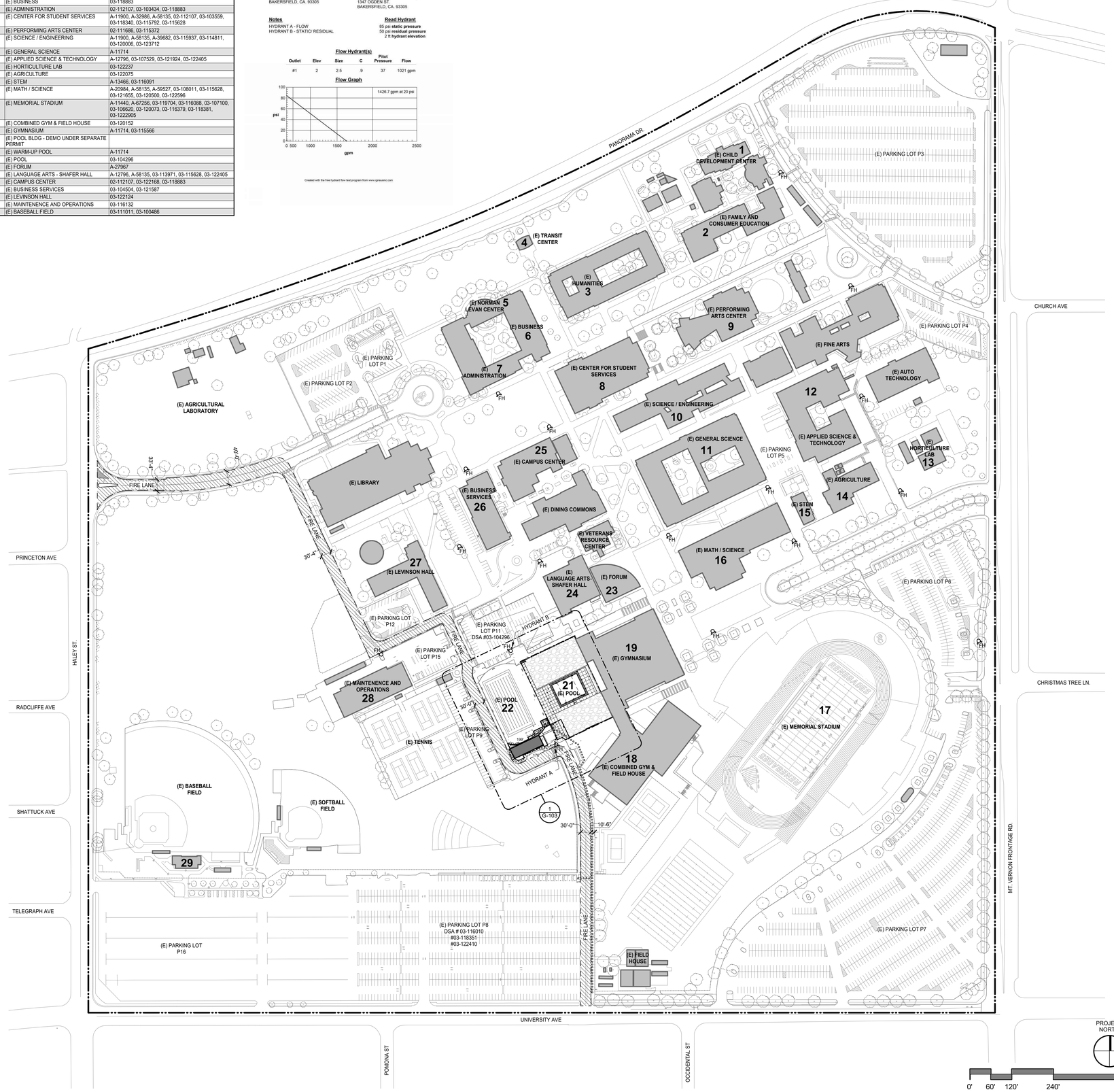
Read Hydrant
85 psi **static pressure**
50 psi **residual pressure**
2 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	2	2.5	.9	37	1021 gpm

Flow Graph

Created with the free hydrant flow test program from www.igeasinc.com



CODE ANALYSIS - SITE PLAN | 1" = 120'-0" | 1

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	Kern Community College District
Project Name/School:	Bakersfield College Pool Equipment Building
Project Address:	1801 Panorama Drive Bakersfield, CA 93305

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: Fire Hazard Severity Zones in State Responsibility Area	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	✓			
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✓	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	✓			
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				✓
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Melissa Thornsberry Title: Chief Financial Officer

Signature: [signature] Date: 08/03/2025

LOCAL FIRE AUTHORITY (LFA) INFORMATION			
LFA Agency Name:	BAKERSFIELD FIRE DEPT.		
LFA Review Official:	ERNIE MEDINA		
Title:	FIRE PLANS EXAMINER	Work Phone:	(661) 326-3682
Work Email:	EMEDINA@BAKERSFIELDFIRE.US		

LFA Reviewer's Signature: [signature] Date: 6/13/25

GENERAL NOTES

1. FIRE LANE TO COMPLY WITH CHAPTER 5.
2. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF ALL FIRE APPARATUS AND SHALL BE SURFACED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. CFC 503.2.3
3. SEE SHEET G-103 FOR KNOX PADLOCK LOCATION(S).

FIRE ACCESS LEGEND

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT BUILDING
- (E) BUILDING
- (E) FIRE ACCESS ROUTE
- (E) FIRE LANE CURB STRIPING
- (E) FENCE LINE
- FIRE HOSE REACH
- (E) ACCESSIBLE EGRESS PATH TO PUBLIC RIGHT OF WAY AND/OR SAFE DISPERSAL AREA
- FH (E) FIRE HYDRANT
- FDC (E) FIRE DEPARTMENT CONNECTION
- BUILDING ENTRANCE

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
802 EAST COTA STREET, SUITE A
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ARCHITECT STAMP

LICENSED ARCHITECT ALAN GLEN KROEBER C-22474 REN. 10-31-25 STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
SITE PLAN - FIRE ACCESS DIAGRAM

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
G-101

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:52 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

BUILDING INFO NOTES

BLDG ID	BUILDING NAME	DSA A#
1	(E) CHILD DEVELOPMENT CENTER	03-102944, 03-101128
2	(E) FAMILY AND CONSUMER EDUCATION	A-30573, 03-122405, 03-124642
3	(E) HUMANITIES	A-11900, 03-121376, 03-122210, 03-122405
4	(E) GET TRANSIT CENTER	02-111473
5	(E) NORMAN LEVAN CENTER	03-111784
6	(E) BUSINESS	03-118883
7	(E) ADMINISTRATION	02-112107, 03-103434, 03-118883
8	(E) CENTER FOR STUDENT SERVICES	A-11900, A-32986, A-58135, 02-112107, 03-103559, 03-118340, 03-115792, 03-115628
9	(E) PERFORMING ARTS CENTER	02-111686, 03-115372
10	(E) SCIENCE / ENGINEERING	A-11900, A-58135, A-39682, 03-115937, 03-114811, 03-120006, 03-123712
11	(E) GENERAL SCIENCE	A-11714
12	(E) APPLIED SCIENCE & TECHNOLOGY	A-12796, 03-107529, 03-121924, 03-122405
13	(E) HORTICULTURE LAB	03-122237
14	(E) AGRICULTURE	03-122075
15	(E) STEM	A-13466, 03-116091
16	(E) MATH / SCIENCE	A-20984, A-58135, A-59527, 03-108011, 03-115628, 03-121655, 03-120500, 03-122596
17	(E) MEMORIAL STADIUM	A-11440, A-67256, 03-119704, 03-116088, 03-107100, 03-106620, 03-120073, 03-116379, 03-118381, 03-1222905
18	(E) COMBINED GYM & FIELD HOUSE	03-120152
19	(E) GYMNASIUM	A-11714, 03-115566
20	(E) POOL BLDG - DEMO UNDER SEPARATE PERMIT	
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25	(E) CAMPUS CENTER	02-112107, 03-122168, 03-118883
26	(E) BUSINESS SERVICES	03-104504, 03-121587
27	(E) LEVINSON HALL	03-122124
28	(E) MAINTENENCE AND OPERATIONS	03-116132
29	(E) BASEBALL FIELD	03-111011, 03-100486

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCOPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHAL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

LEGEND - CODE SITE GENERAL NOTES

1. ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T .
2. ALL LANDSCAPE EDGES ALONG ALL NEW OR EXISTING WALK SURFACES IN P.O.T. SHALL BE PER CIVIL DRAWINGS.
3. FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T., THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
4. NOTE THAT ALL DEMOLITION SHALL COMPLY WITH CHAPTER 33 CFC
5. THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

LEGEND - SITE PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT BUILDING
- (E) BUILDING
- (E) RESTROOMS
- PATH OF TRAVEL (P.O.T.)

- AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE
- IS AT LEAST 48" WIDE.
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL
- THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
- PASSING SPACES (11B-403.2) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART.
- PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART.
- THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
- (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307).
- ARCHITECT SHALL VERIFY PATH OF TRAVEL CONFORMS WITH THE ABOVE.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

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ARCHITECT STAMP

LICENSED ARCHITECT
ALAN GLEN KROOKER
C-22474
REN. 10-31-25
STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
CODE SITE PLAN

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
G-102

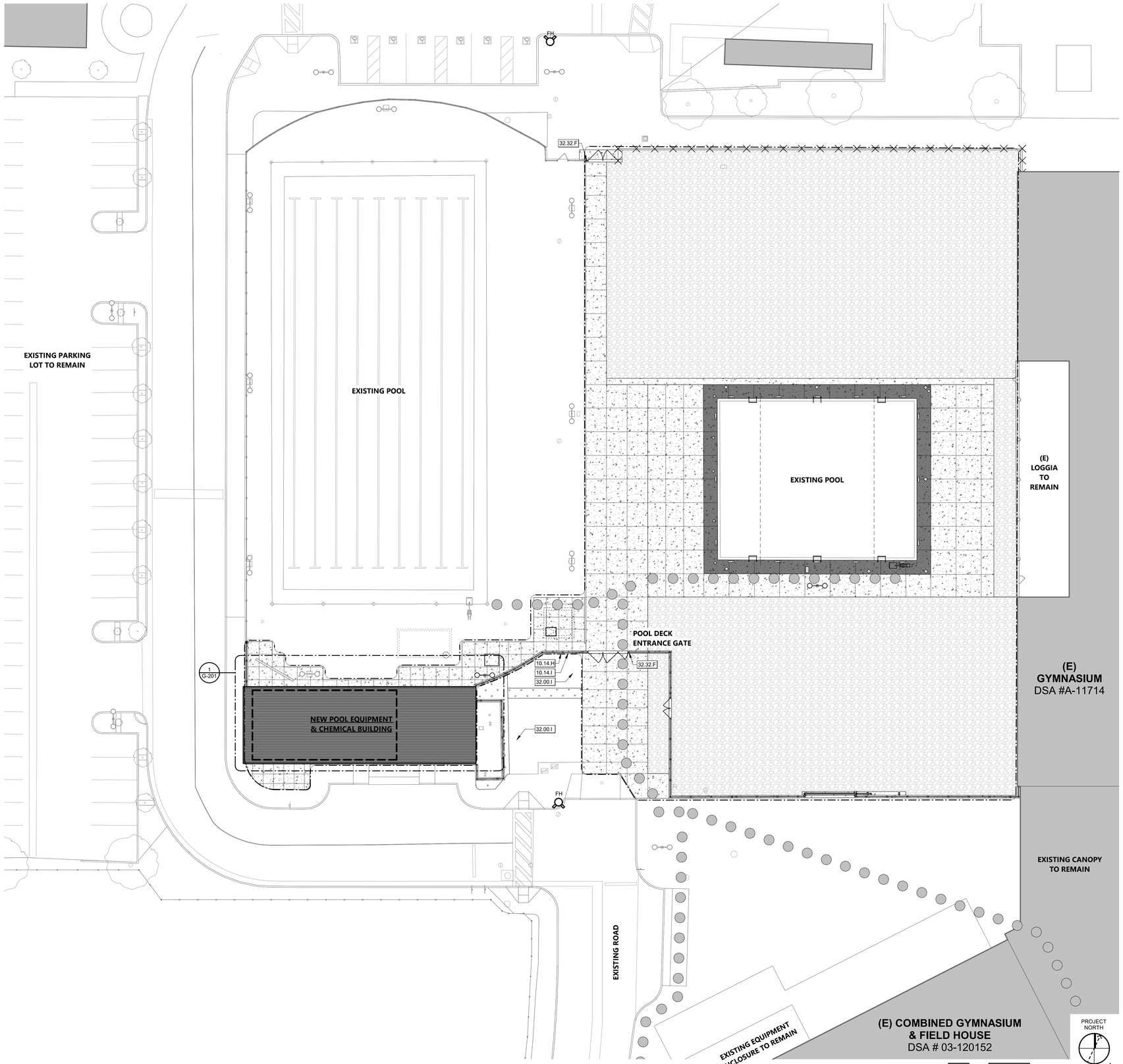
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

CODE ANALYSIS - SITE PLAN | 1" = 120'-0" | 1

DATE PLOTTED: 3/6/2025 11:18:56 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



ENLARGED CODE SITE PLAN | 1/16" = 1'-0" | 1

KEYNOTES

10.14.H	ACCESSIBLE ROUTE SIGN.
10.14.I	REINSTALL (E) SIGNAGE ON FENCE.
32.00.I	(E) ARTIFICIAL TURF TO REMAIN, PROTECT IN PLACE, U.O.N.
32.32.F	PROVIDE AND INSTALL KNOX PADLOCK PER MANUFACTURER'S INSTRUCTIONS.

SITE PLAN GENERAL NOTES

1. ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T.
2. ALL LANDSCAPE EDGES ALONG ALL NEW OR EXISTING WALK SURFACES IN P.O.T. SHALL BE PER CIVIL DRAWINGS
3. FOR GRATES OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T., THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
4. SEE PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS FOR UTILITIES.

LEGEND - SITE PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT BUILDING
- (E) BUILDING
- (N) CONCRETE PAVING PER CIVIL DRAWINGS
  - EXPANSION JOINT PER CIVIL DRAWINGS
  - CONTROL JOINT PER CIVIL DRAWINGS
- (N) COLORED CONCRETE PAVING PER CIVIL DRAWINGS. MATCH (E) COLORED CONCRETE PAVING.
  - EXPANSION JOINT PER CIVIL DRAWINGS
  - CONTROL JOINT PER CIVIL DRAWINGS
- (N) ARTIFICIAL TURF
- (N) GRAVEL
- (N) FENCE LINE
- (E) FENCE LINE
- FH (E) FIRE HYDRANT
- FDC (E) FIRE DEPARTMENT CONNECTION
- PATH OF TRAVEL (P.O.T.)
  - AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE
  - IS AT LEAST 48" WIDE.
  - NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
  - THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
  - PASSING SPACES (11B-403.2) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART.
  - PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART.
  - THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
  - (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307).
  - ARCHITECT SHALL VERIFY PATH OF TRAVEL CONFORMS WITH THE ABOVE.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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REN. 10-31-25
STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
ENLARGED CODE SITE PLAN

DRAWN BY: JOB NUMBER: 23024.02

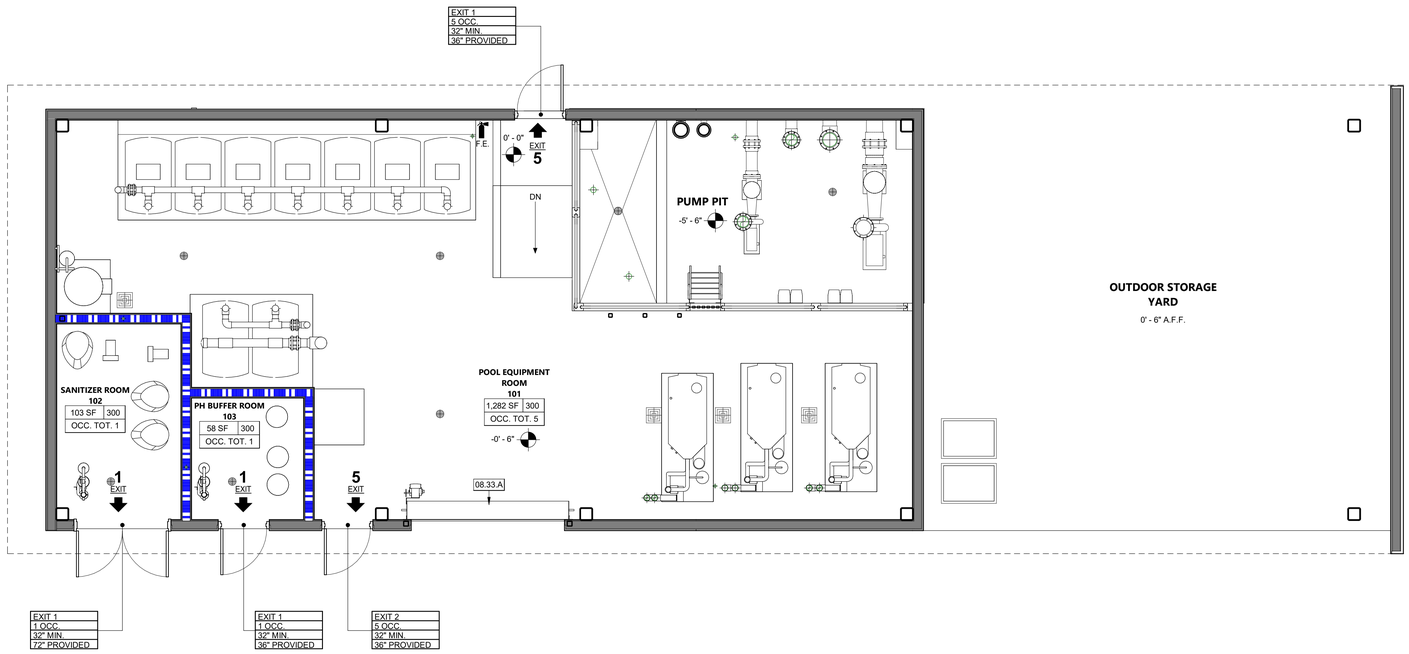
SHEET NO.
G-103

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:59 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



PROJECT NORTH

CODE PLAN - POOL EQUIPMENT BUILDING | 1/4" = 1'-0" | 1

OCCUPANT CHART PER 2022 CBC TABLE 1004.5 FIRST FLOOR

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
101	POOL EQUIPMENT ROOM	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	1,282 SF	300 SF	5	S-1	29	2'-8"	1	1
102	SANITIZER ROOM	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	103 SF	300 SF	1	S-2	29	2'-8"	1	1
103	PH BUFFER ROOM	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	58 SF	300 SF	1	S-2	29	2'-8"	1	1
OCCUPANT TOTAL:					7					

LEGEND - CODE ANALYSIS

1 HR RATED SEPERATION

OCCUPANCY TAG

ROOM NAME
101
150 SF | 15
OCC. TOT. 25

- ROOM NUMBER
- OCCUPANT LOAD FACTOR
- TOTAL OCCUPANCY CALCULATED
- ROOM AREA

EGRESS WIDTH TAG

EXIT 01
123 OCC.
38" MIN.
36" PROVIDED

- EXIT LOCATION
- TOTAL OCCUPANTS CALCULATED
- MINIMUM EXIT WIDTH CALCULATED
- EXIT WIDTH PROVIDED

BUILDING EXIT

FIRE EXTINGUISHER

KEYNOTES

08.33.A MOTOTRIZED OVERHEAD COILING DOOR. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

2022 CALIFORNIA BUILDING CODE

602 CONSTRUCTION TYPE:

■ TYPE V-B

BUILDING SPRINKLER SYSTEM:

■ NS BUILDINGS NOT EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKER SYSTEM

302 OCCUPANCY CLASSIFICATION:

OCCUPANCY TYPE: S

504 ALLOWABLE HEIGHT & STORIES :

OCCUPANCY	SPRINKLERS	CONSTRUCTION	ALLOWABLE	ACTUAL
GROUP S	NS	TYPE V-B	40'-0"	± 14'-10"
			1 STORIES	1 STORIES

506 ALLOWABLE AREA CALCULATIONS:

506.2.1 SINGLE OCCUPANCY, ONE STORY

(EQUATION 5-1) $A_w = A_t + (NS \times I_f)$

FLOOR 1						
OCC. GROUP	A_t (SF)	NS (SF)	I_f	A_w (SF)	ACTUAL (SF)	RATIO
S-1	9,000 SF	9,000 SF	0	9,000 SF	1,278 SF	0.14
S-2	13,500 SF	13,500 SF	0	13,500 SF	161 SF	0.01
AREA (RATIO < 1.0 = OK)					1,439 SF	0.15
TOTAL BUILDING AREA		RATIO= 0.15		< Sa = 1 = OK		1,439 SF

FIRE RESISTANCE RATINGS:

TABLE 601 & **TABLE 602** *FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS*

BUILDING ELEMENT	TYPE V-B	EXTERIOR NON-BEARING	
		FIRE SEPARATION DISTANCE	WALL RATING FOR OCCUPANCY GROUP B
PRIMARY STRUCTURAL FRAME	0 HR		
EXTERIOR BEARING WALL	0 HR		
INTERIOR BEARING WALL	0 HR	X < 5'-0"	0 HR
INTERIOR NONBEARING	0 HR	5'-0" < X < 10'-0"	0 HR
FLOOR & SECONDARY MEMBER	0 HR	10'-0" < X < 30'-0"	0 HR
ROOF & SECONDARY MEMBER	0 HR	30'-0" < X	0 HR

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SHEET TITLE
CODE FLOOR PLAN

DRAWN BY: JOB NUMBER: 23024.02

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CONSTRUCTION DOCUMENTS

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DATE PLOTTED: 3/6/2025 11:19:02 PM
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GENERAL TOPOGRAPHIC SURVEY LEGEND:

(NOT ALL SYMBOLS SHOWN APPEAR ON THE PLANS)

AB	ABUTMENT
AC	ASPHALTIC CONCRETE
ACE	ASPHALTIC CONCRETE EDGE
AD	ASPHALTIC CONCRETE DIKE
AWT	ALL-WEATHER TRACK
BD	BRIDGE DECK
BFC	BOTTOM FACE OF CURB
BGST	STEPS
BGTR	TOP OF ROOF
BGV	BUILDING VENTS
BOD	BOTTOM OF DITCH
BR	BARRICADE
BRK	BRICK
BW	BARRIER WALL
CB	CATCH BASIN
CDA	CONCRETE DRIVE APPROACH
CE	CONCRETE EDGE
CMP	CORRUGATED METAL PIPE
CON	CONCRETE
COTH	COMMUNICATION TRENCH
CR	CROWN OF ROAD
CRQ	QUARTER CROWN
CS	CONCRETE SLAB
CULV	CULVERT
CW	CONCRETE WALL
DD	DOWN DRAIN
DFL	DITCH FLOWLINE
DWY	DRIVEWAY
ECTH	ELECTRICAL TRENCH
EDR	EDGE OF DIRT ROAD
EGR	EDGE OF GRAVEL ROAD
EOD	EDGE OF OILED DIRT
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
ET	EDGE OF TRAVELED WAY
FF	FINISH FLOOR
FOTH	FIBER OPTIC TRENCH
GB	GRADE BREAK
GFL	GUTTER FLOWLINE
GR	GRATE
GRA	GRAVEL SPOT SHOT
GRAE	EDGE OF GRAVEL
GSTH	GAS TRENCH
HDR	WOOD HEADER
HW	HEAD WALL
KR	K-RAIL
LIP	LIP OF GUTTER
LSDE	DECOMPOSED GRANITE EDGE
LSDG	DECOMPOSED GRANITE
LSGC	GROUND COVER
LSGF	GOLF COURSE FAIRWAY
LSGG	GOLF COURSE GREEN
LSGT	GOLF COURSE TEE
LSSA	SAND
LSSP	SLOPE PROTECTION
LSST	GOLF COURSE SAND TRAP
NPTH	NON-POTABLE TRENCH
PA	PATIO
PGTH	PROPANE GAS TRENCH
POS	POINT ON SLOPE
RCP	REINFORCED CONCRETE
RIEL	RIPARIAN EDGE OF LAKE
RIEP	RIPARIAN EDGE OF POND
RIES	RIPARIAN EDGE OF STREAM
RIEW	RIPARIAN EDGE OF WETLAND
RIFL	RIPARIAN FLOWLINE
RIMC	RIPARIAN MISC.
RIP	RIP-RAP SLOPE PROTECTION
RK	ROCK
RW	RETAINING WALL
SB	SPEED BUMP
SDCD	STORM DRAIN CROSS DRAIN
SDFL	STORM DRAIN FLOWLINE
SDGR	STORM DRAIN GRATE
SDMG	STORM DRAIN MANHOLE W/ GRATE
SSFL	SEWER FLOWLINE
SDTH	STORM DRAIN TRENCH
SSGT	STORM DRAIN GREASE TRAP
SSST	SEWER TANK (SEPTIC)
SSTH	SEWER TRENCH
SWK	SIDEWALK
SWL	SWALE
T	TURF
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALK
TF	TOP OF FOOTING
TFC	TOP FACE OF CURB
TFW	TOP FACE OF WALK
TLTH	TELEPHONE TRENCH
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TRDO	TRUNCATED DOMES
TVTH	TV TRENCH
TW	TOP OF WALL
UTH	UNIDENTIFIED TRENCH/SCAR LINE
VGFL	VALLEY GUTTER FLOWLINE
VGR	VALLEY GUTTER
WALBA	BARRIER WALL
WALBW	BLOCK WALL
WALCW	CONCRETE WALL
WALHW	HEAD WALL
WALRW	RETAINING WALL
WALWW	WING WALL
WCR	WHEELCHAIR RAMP
WLPD	WELL PAD
WTTH	WATER TRENCH
WW	WING WALL
(335.21)	EXISTING ELEVATION
AL	ACCENT LIGHT
AV	ALFALFA VALVE
	BACKFLOW ASSEMBLY
	BASKETBALL GOAL
BOV	BLOW-OFF VALVE
	BM=BENCHMARK; OR SBM=SITE BENCHMARK
BO	BOLLARD
CO	CLEANOUT
CPB	COMMUNICATION PULLBOX
CVA	COMMUNICATION VAULT
312.55	SURVEY CONTROL MONUMENT
DF	DRINKING FOUNTAIN
DS	DOORSTOP
DW	DRYWELL
EG	ELECTRICAL GROUND
ELC	ELECTRICAL CONDUIT
EMB	ELECTRICAL METER
EPB	ELECTRICAL PULLBOX
ELV	ELECTRICAL VAULT LID
ETS	GAS ELECTRONIC TESTING STATION
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FP	FENCE POST
FLP	FLAG POLE
GAS	GAS LINE; DIAMETER AS SHOWN
GR	GAS REGULATOR
GAV	IRRIGATION GATE VALVE
GM	GAS METER
GOP	GOAL POST
GP	GUY POLE
GS	GATE STOP
GSR	GAS RISER
GV	GAS VALVE
GRD	GROUNDING ROD
GUY	GUY WIRE
HB	HOSE BIBB
HR	HANDRAIL
ICB	IRRIGATION CONTROLLER
ICM	IRRIGATION DISTRICT MANHOLE
IRA	IRRIGATION REMOTE CONTROL VALVE
ISB	IRRIGATION SPLICE BOX
IHB	IN-GROUND HOSE BIBB
IP	IRON PIPE
JP	JOINT UTILITY POLE
LP	LIGHT POLE
MB	MAIL BOX
MH	MANHOLE
MV	MANUAL IRRIGATION VALVE
PB	PULLBOX
PIV	POST INDICATOR VALVE
	UTILITY STUB
Rm	PARKING METER
POST	POST; DIAMETER AS SHOWN
PP	POWER POLE
PVC	PVC PIPE; DIAMETER AS SHOWN
QC	QUICK COUPLER VALVE
RD	ROOF DRAIN
RDU	ROOF DRAIN UNDERGROUND
RS	ROOF SUPPORT
	STADIUM LIGHT POLE
	STORM DRAIN MANHOLE
	SIGN
PPB	SIGNAL LIGHT PUSH BUTTON
	STREET LIGHT
SLE	PIPE SLEEVE; DIAMETER AS SHOWN
	SLOPE
SLPB	STREET LIGHT PULLBOX
SLV	PIPE SLEEVE; DIAMETER AS SHOWN
	SEWER MANHOLE
SP	SERVICE POLE
SPB	SIGNAL PULLBOX
	SPRINKLER
SPO	STEEL POST; DIAMETER AS SHOWN
SS	SAND SEPARATOR; SIZE AS NOTED
STP	STAND PIPE; DIAMETER AS NOTED
STUMP	TREE STUMP; DIAMETER AS SHOWN
MW	SURVEY MONUMENT WELL
TEL	TELEPHONE; DIAMETER AS SHOWN
	TELEPHONE MANHOLE
TN	TENNIS NET POLE
TP	TELEPHONE POLE
TPB	TELEPHONE PULLBOX
TVPB	TELEVISION PULLBOX
	TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN
	PALM TREE; SPREAD SHOWN GRAPHICALLY
TSB	TELEPHONE SPLICE BOX
	TRAFFIC SIGNAL POLE
TSPB	TRAFFIC SIGNAL PULLBOX
UP	UTILITY POLE
UR	UTILITY RISER
VB	VACUUM BREAKER
VN	VOLLEYBALL NET POST
VP	VENT PIPE; DIAMETER AS SHOWN
WELL	WELL
	WATER METER
WP	WELL PUMP
WPO	CIRCULAR WOOD POST; DIAMETER AS SHOWN
WPO	SQUARE WOOD POST; SIZE AS SHOWN
W	WATER LINE; DIAMETER AS SHOWN
WV	WATER VALVE
	ASPHALT PAVEMENT
	CONCRETE BLOCK WALL
	BUILDING
	CONCRETE
	DETECTABLE WARNINGS
	DG OR GRAVEL
	CHAIN LINK FENCE
	CHAIN LINK ROLL GATE
	EDGE OF ASPHALT PAVEMENT
	WOOD FENCE
	DIRECTION OF FLOW
E	UNDERGROUND ELECTRIC
G	GAS LINE; SIZE AS NOTED
OT	OVERHEAD TELEPHONE
SD	STORM DRAIN LINE; SIZE AS NOTED
S	SEWER LINE; SIZE AS NOTED
T	UNDERGROUND TELEPHONE
W	WATER LINE; SIZE AS NOTED
AG	AGRICULTURAL IRRIGATION LINE; SIZE AS NOTED
A	AIR LINE; SIZE AS NOTED
C	COMMUNICATION LINE
350	MAJOR GRADE CONTOUR LINE
345	MINOR GRADE CONTOUR LINE
CW	CHILLED WATER LINE; SIZE AS NOTED
CWR	CHILLED WATER RETURN LINE; SIZE AS NOTED
CWS	CHILLED WATER SUPPLY LINE; SIZE AS NOTED
	LIMIT OF DIRT
	LIMIT OF TURF
DL	DRAIN LINE; SIZE AS NOTED
EMS	EMERGENCY MANAGEMENT SYSTEM
FA	FIRE ALARM LINE
F	FIRE LINE; SIZE AS NOTED
FO	FIBER OPTIC LINE
	DRAIN TUBE
HW	HOT WATER LINE; SIZE AS NOTED
HWR	HOT WATER RETURN LINE; SIZE AS NOTED
HWS	HOT WATER SUPPLY LINE; SIZE AS NOTED
HYD	HYDRAULIC LINE
ID	IRRIGATION DISTRICT; SIZE AS NOTED
	IRON FENCE
IRR	IRRIGATION MAIN LINE; SIZE AS NOTED
L	IRRIGATION LATERAL LINE; SIZE AS NOTED
ITS	INTELLIGENT TRAFFIC SYSTEM
JT	JOINTLY TRENCHED UTILITIES
OC	OVERHEAD COMMUNICATIONS LINE
OE	OVERHEAD ELECTRIC LINE
OEC	OVERHEAD ELECTRIC AND COMMUNICATION LINE
OET	OVERHEAD ELECTRIC AND TELEPHONE LINE
OETV	OVERHEAD ELECTRIC AND TELEVISION LINE
OETVT	OVERHEAD ELECTRIC, TELEVISION AND TELEPHONE LINE
OTS	OVERHEAD TRAFFIC SIGNAL LINE
OTV	OVERHEAD TELEVISION LINE
OU	OVERHEAD UTILITY LINE
P	PETROLEUM LINE; SIZE AS NOTED
RW	RECYCLED WATER IRRIGATION LINE; SIZE AS NOTED
S&SD	SEWER AND STORM DRAIN LINE; SIZE AS NOTED
SFM	SEWER FORCE MAIN; SIZE AS NOTED
ST	STEAM LINE; SIZE AS NOTED
TFO	TRAFFIC FIBER OPTIC LINE
TS	TRAFFIC SIGNAL LINE
TV	TELEVISION LINE
UNK	UNKNOWN UTILITY LINE
	WIRE FENCE
	PROPERTY LINE
	CITY LIMIT
	EASEMENT 1
	EASEMENT 2
	RIGHT-OF-WAY LINE
	SETBACK LINE

SURVEY NOTES:

1. *THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MARCH 19, 2024.*
2. *UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.*

SITE BENCHMARK:

CHISELED "X" IN CONCRETE WALK APPROXIMATELY 46' SOUTHWEST OF THE SOUTHWEST CORNER OF THE POOL BUILDING SOUTH WING.

ELEV. = 54.68' BAKERSFIELD COLLEGE DATUM

AGENCY APPROVAL DSA # 03-124689

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Bakersfield, CA 93301

BAKERSFIELD COLLEGE POOL EQUIPMENT BUILDING

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SHEET TITLE

TOPOGRAPHIC SURVEY LEGEND AND NOTES

DRAWN BY: SJUE JOB NUMBER: 23024.02

SHEET NO.

C-100

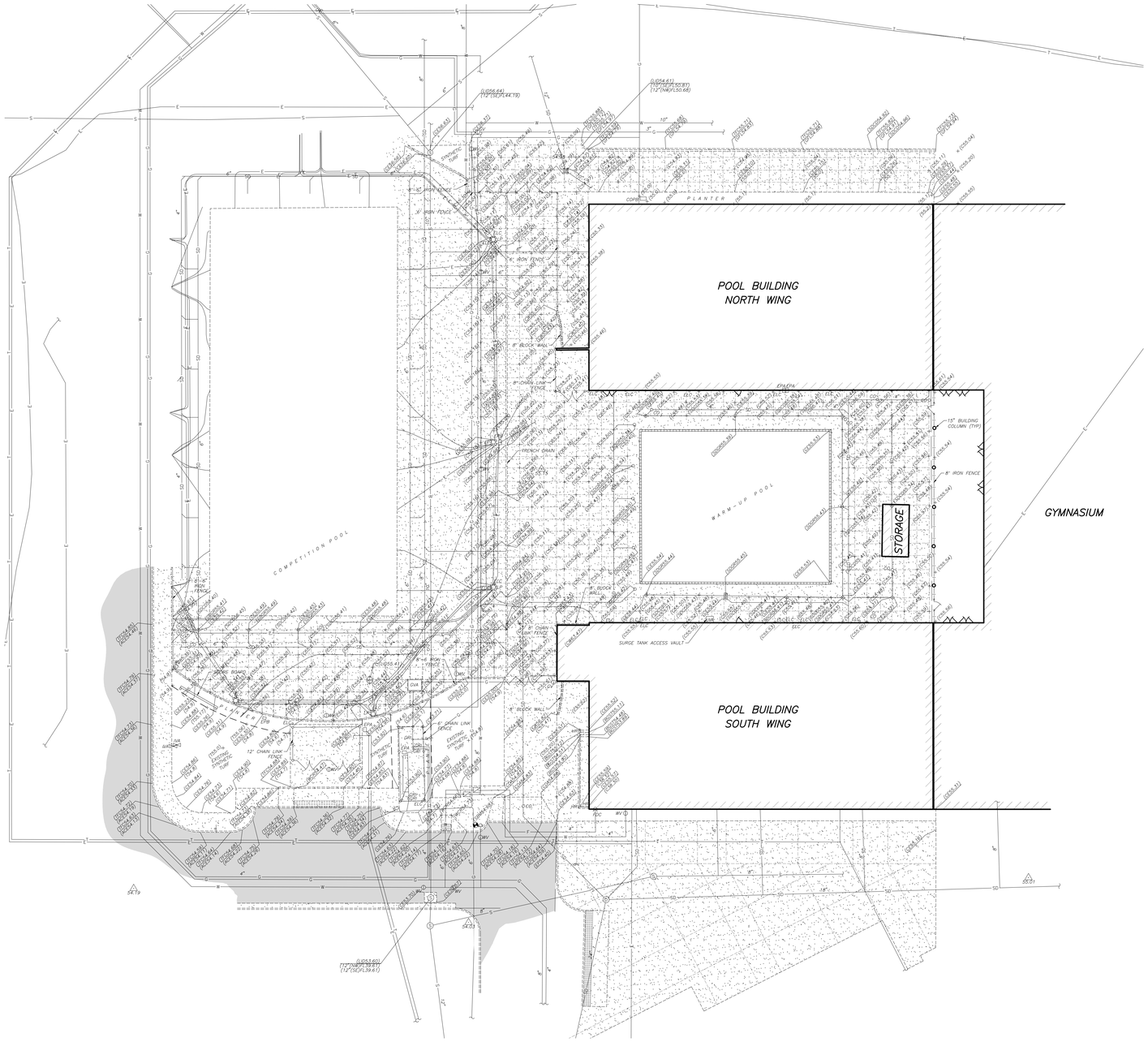
DATE: MARCH 7, 2025

Know what's below. Call before you dig.

DSA APPROVAL SET

PLOT DATE: MAR 04, 2025 - 10:53AM Drawing NAME: P:\23-0444\SITE\Production\Drawings\23444_1502.dwg
PLOT BY: SJUE

ISSUED: SEPTEMBER 9, 2025



SURVEY NOTES:

1. *THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MARCH 19, 2024.*
2. *UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.*

SITE BENCHMARK:

CHISELED "X" IN CONCRETE WALK APPROXIMATELY 46' SOUTHWEST OF THE SOUTHWEST CORNER OF THE POOL BUILDING SOUTH WING.

ELEV.= 54.68' BAKERSFIELD COLLEGE DATUM

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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AGENCY APPROVAL DSA # 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
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DATE: 08/18/2025

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802 EAST COTA STREET, SUITE A
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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
LYNN R. BAKER
No. 47705
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Avenue,
Bakersfield, CA 93301

BAKERSFIELD COLLEGE POOL EQUIPMENT BUILDING

1801 Panorama Dr,
Bakersfield, CA 93305

SHEET TITLE

TOPOGRAPHIC SURVEY

DRAWN BY: SJUE JOB NUMBER: 23024.02

SHEET NO.

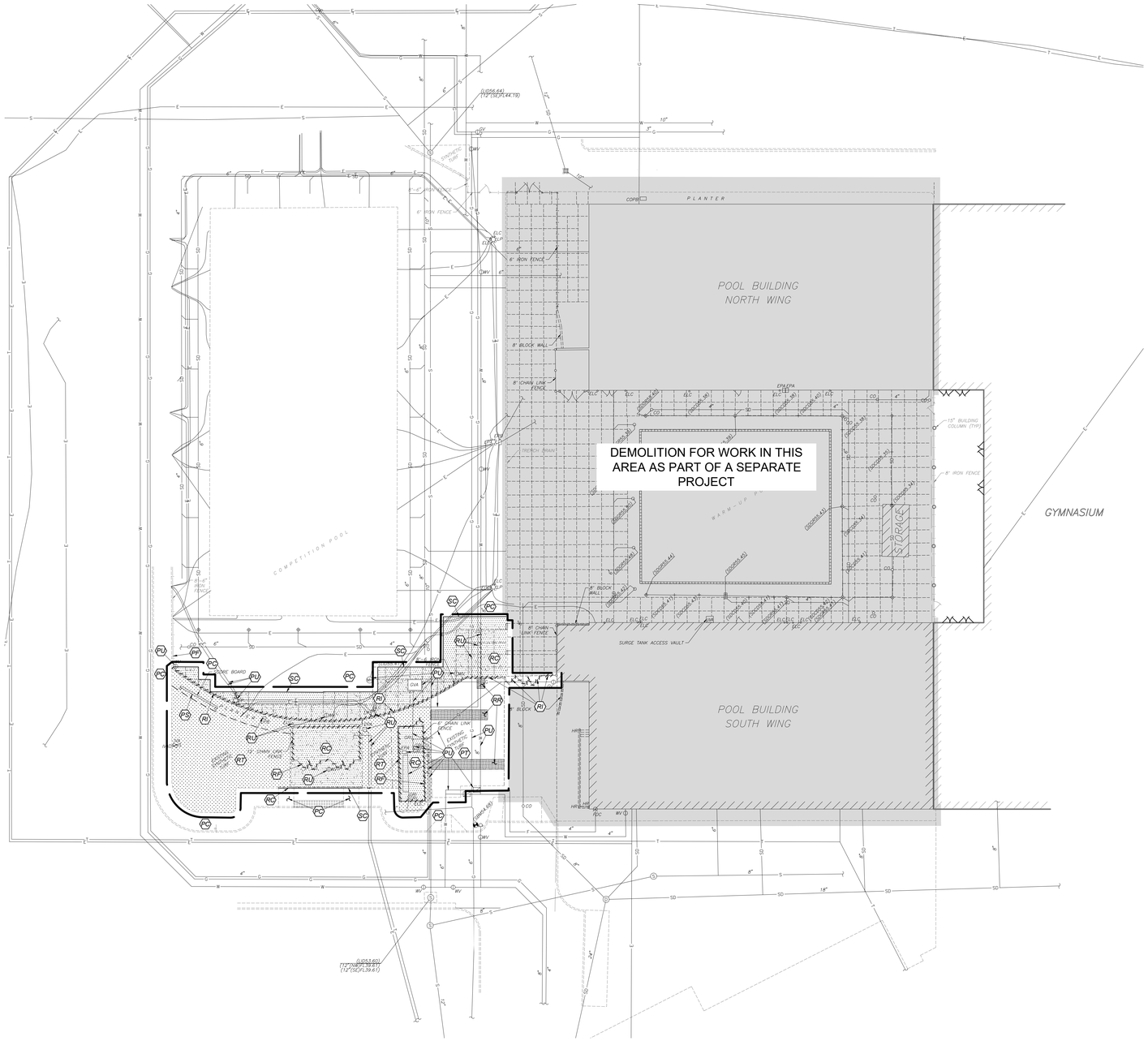
C-101

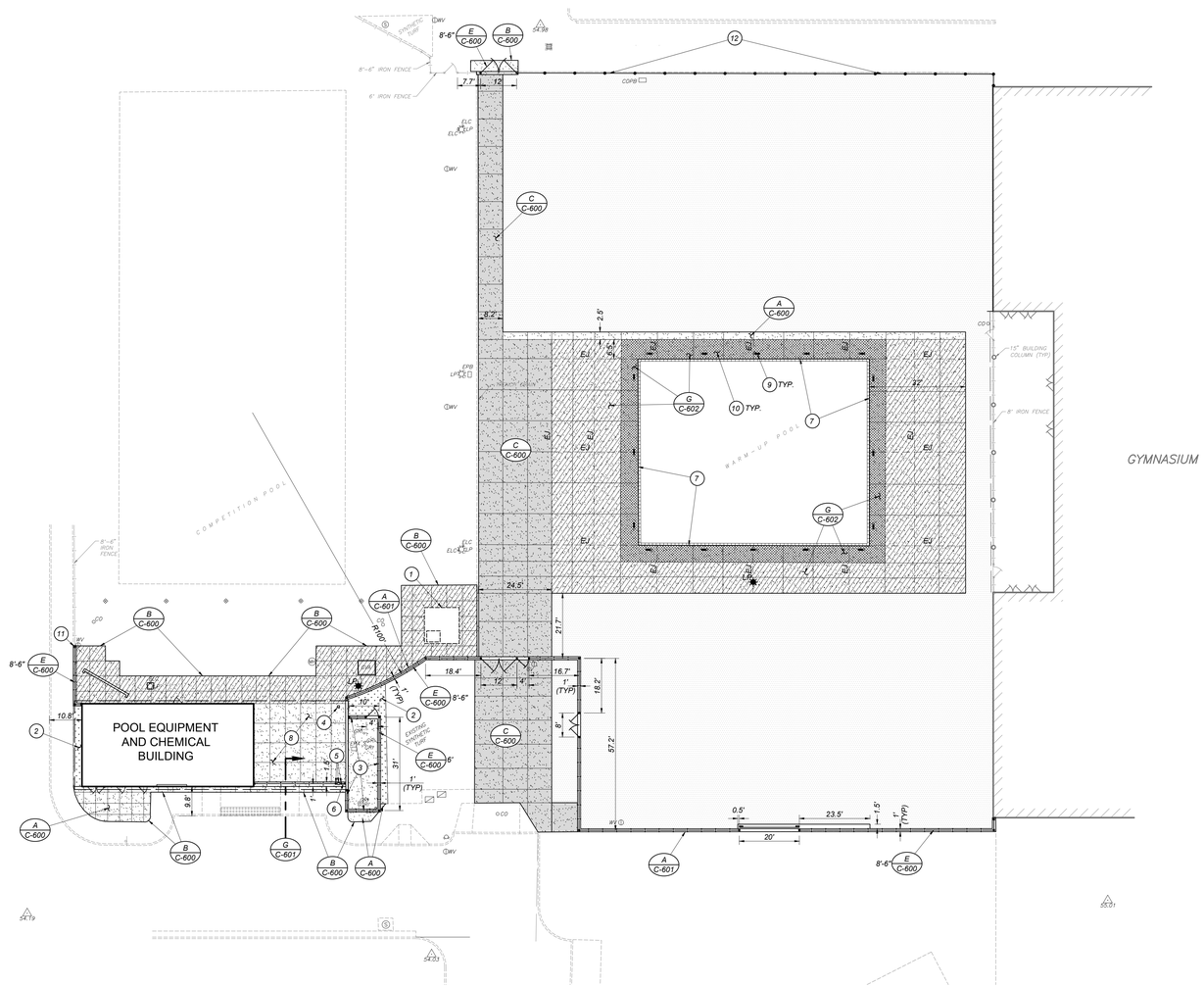
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

PLOT BY: SJUE PLOT DATE: Mar 04, 2025 - 10:54AM Drawing Name: P:\23-SALLI\SITE\Product\ltd\Drawings\23124-ALT02.dwg

ISSUED: SEPTEMBER 9, 2025


POOL BUILDING
NORTH WING
POOL BUILDING
SOUTH WING
COMPETITION POOL
GYMNASIUM
STORAGE
DEMOLITION FOR WORK IN THIS AREA AS PART OF A SEPARATE PROJECT
PLANTER
SURGE TANK ACCESS VAULT
8" BLOCK WALL
8' CHAIN LINK FENCE
6' IRON FENCE
8' IRON FENCE
DIVING BOARD
EXISTING FLAG POLE TO BE REMOVED
EXISTING SHADE STRUCTURE TO BE REMOVED
EXISTING SHADE STRUCTURE TO REMAIN
EXISTING FLAG POLE TO REMAIN
EXISTING SHADE STRUCTURE TO BE REMOVED
EXISTING SHADE STRUCTUR



SITE LEGEND:

- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF POOL DECK CONCRETE IMPROVEMENTS
- LIMITS OF HEAVY DUTY CONCRETE IMPROVEMENTS
- LIMITS OF COLORED CONCRETE PANEL, SEE ARCHITECTURAL PLANS
- LIMITS OF STABILIZED SOIL: FOR POST-CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE EXPOSED SOIL USING GROUND COVER, GRAVEL, OR SOIL BINDER TO ACHIEVE DUST PREVENTION. SEE ARCHITECTURAL PLANS.
- LIMITS OF SYNTHETIC TURF IMPROVEMENTS, SEE ARCHITECTURAL PLANS
- EJ — POOL DECK EXPANSION JOINT PER DETAIL [G/C-602]
- PL — PLANTER
- LP — SITE LIGHTING, SEE ELECTRICAL PLANS
- (1) SURGE TANK, SEE MECHANICAL PLANS
- (2) SYNTHETIC TURF, SEE ARCHITECTURAL PLANS
- (3) FLATTENED EXPANDED METAL 1/2" X 16 GA. SCREEN WELDED TO INSIDE FACE OF FENCE, COLOR OF SCREEN TO MATCH EXISTING FENCE. FOR COLOR REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS.
- (4) ROOF SUPPORT, SEE STRUCTURAL PLANS
- (5) FENCE POSTS ADJACENT TO ROOF SUPPORT POST PER DETAIL [E/C-600]
- (6) CONTRACTOR TO CONNECT TO METAL FENCE POST PER DETAIL [E/C-600]
- (7) CONTRACTOR TO CONSTRUCT NEW POOL DECK AGAINST EXISTING MYRTHA DRAIN PER DETAIL [B/C-602]
- (8) CONCRETE SLAB ON GRADE AT OUTDOOR STORAGE YARD PER STRUCTURAL PLANS
- (9) POOL DEPTH AND WARNING SIGNAGE, SEE AQUATICS PLANS
- (10) COLORED CONCRETE PANEL, SEE ARCHITECTURAL PLANS
- (11) CONNECT NEW FENCE RAILS TO EXISTING FENCE POST PER DETAIL [E/C-600]
- (12) TEMPORARY FENCE, SEE ARCHITECTURAL PLANS

GENERAL SITE NOTES:

1. ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/C-600]
2. INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [B/C-600]
3. NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
4. ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
5. 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
6. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.

GENERAL BONDING NOTES:

THE FOLLOWING NOTES SHALL NOT REPLACE REQUIREMENTS SET FORTH BY THE ELECTRICAL AND/OR AQUATICS PLANS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL AND AQUATICS PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION:

1. CONTRACTOR SHALL VERIFY GROUND CONNECTIONS AND CONTUINITY FOR ALL EXISTING GROUNDING AND BONDING CONDUCTORS ALONG WITH ALL CONDUCTIVE APPURTENANCES.
2. ALL NEW ELECTRICAL INFRASTRUCTURE WITHIN THE VICINITY OF THE POOL SHALL BE BONDED IN ACCORDANCE WITH NEC ARTICLE 250 AND ARTICLE 680.
3. CONTRACTOR SHALL VERIFY ALL WIRING AND BONDING CONNECTIONS OF THE ALL EXISTING ELECTRICAL FIXTURES.
4. STRUCTURAL STEEL IN POOL DECK AND POOL SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
5. BONDING CONNECTOR TO COMMON GRID. (POOL STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
6. GROUND AND BOND IN ACCORDANCE WITH ATRICLE 680 OF THE CALIFORNIA ELECTRICAL CODE (I.E. LADDERS, FENCING, POLE LIGHTS, DIVING, AND STARTING STANCHIONS, DISABLED LIFT, ETC.

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Avenue,
Bakersfield, CA 93301

BAKERSFIELD COLLEGE POOL EQUIPMENT BUILDING
1801 Panorama Dr.
Bakersfield, CA 93305

SHEET TITLE
SITE AND DIMENSION PLAN

DRAWN BY: S.JUE JOB NUMBER: 23024.02

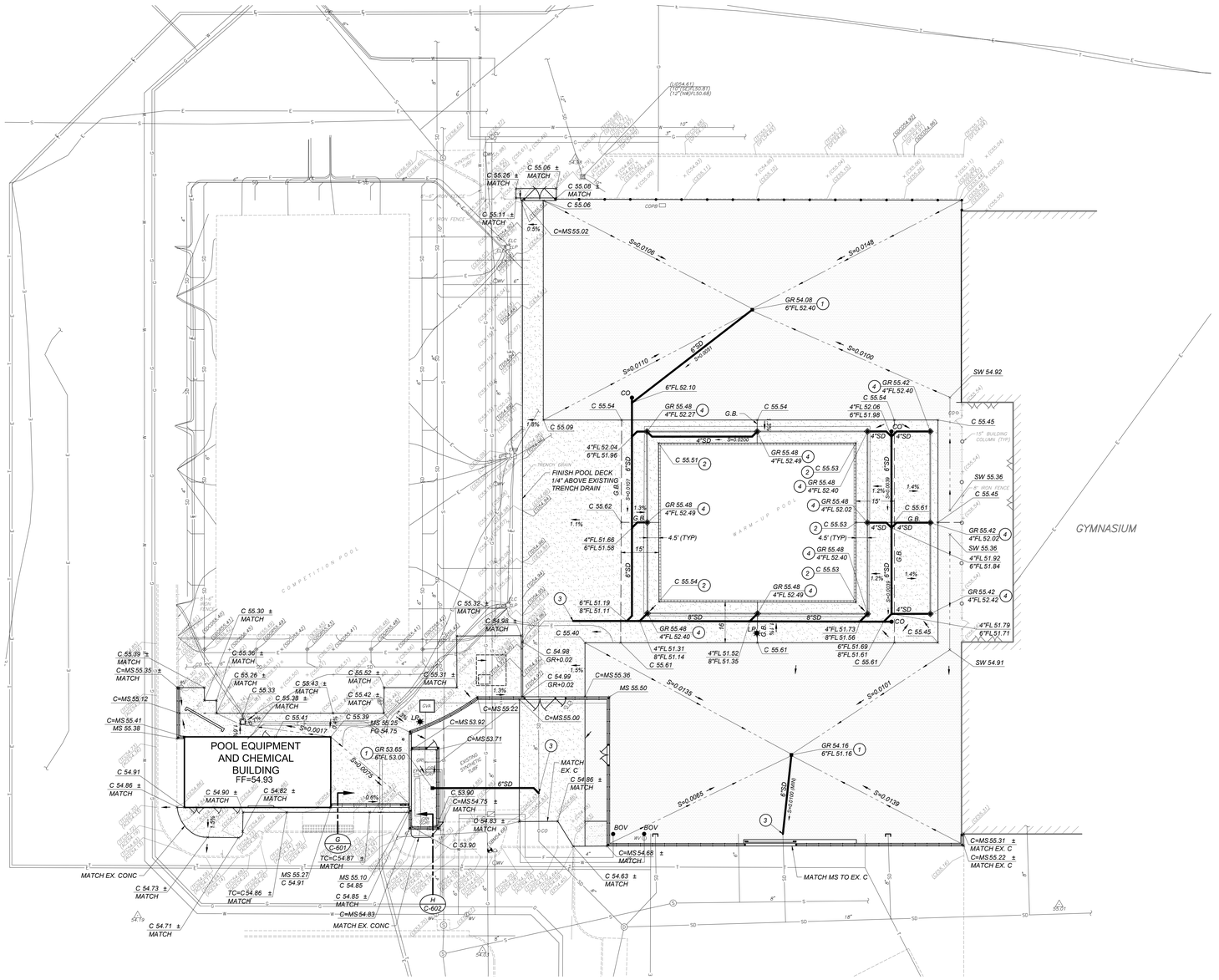
SHEET NO.
C-300

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

PLOT BY: SJUE PLOT DATE: MAR 05, 2025 - 8:03PM DRAWING NAME: P:\23\23-044\SITE\Production\Drawings\23044_ARC.DWG

ISSUED: SEPTEMBER 9, 2025



GRADING AND DRAINAGE LEGEND:

	LIMITS OF STABILIZED SOIL; FOR POST-CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE EXPOSED SOIL USING GROUND COVER, GRAVEL, OR SOIL BINDER TO ACHIEVE DUST PREVENTION. SEE ARCHITECTURAL PLANS.
C	*CONCRETE*
FF	*FINISHED FLOOR*
FL	*FLOWLINE*
G	*GUTTER*
GR	*STORM DRAIN GRATE*
MS	*MOWSTRIP*
P	*PAVEMENT*
SW	*SWALE*
TC	*TOP OF CURB*
(344.9)	*EXISTING ELEVATION*
328.78	*NEW FINISHED GRADE*
	DIRECTION OF SURFACE DRAINAGE
G.B.	*GRADE BREAK*
S=0.0050	*PIPE SLOPE AND DIRECTION OF FLOW*
	SWALE AND DIRECTION OF FLOW
1	*P6 STORM DRAIN INLET PER DETAIL [D/C-601]*
2	*MATCH CONCRETE ELEVATION AT POOL DRAIN TO EXISTING CONCRETE ELEVATION PER DETAIL [B/C-602]*
3	*CONNECT TO EXISTING STORM DRAIN UTILITY WITH WATER-TIGHT CONNECTION; CONTRACTOR TO VERIFY FLOWLINE ELEVATION PRIOR TO CONSTRUCTION AND INFORM THE ENGINEER OF THE FINDINGS*
4	*SLOT DRAIN CONNECTION PER DETAIL [A/C-602]*
CO	*SURFACE CLEANOUT PER DETAIL [F/C-601]*
6"SD	*STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [B/C-601]*
	SLOT DRAIN PER DETAIL [A/C-602]
S=0.0020	*FLOWLINE SLOPE AND DIRECTION OF FLOW*

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. *CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).*
2. *CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:*
   a) *ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%*
   b) *ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%*
   c) *RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%*
   d) *ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH*
   e) *ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   f) *LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   g) *GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%*
3. *CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.*
4. *GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.*
5. *DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.*
6. *ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.*
7. *THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.*
8. *THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE STATE WATER RESOURCES CONTROL BOARD'S CONSTRUCTION GENERAL PERMIT. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.*
9. *AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*
10. *ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [C/C-601]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.*
11. *MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS*

SITE BENCHMARK:

CHISELED "X" IN CONCRETE WALK APPROXIMATELY 46' SOUTHWEST OF THE SOUTHWEST CORNER OF THE POOL BUILDING SOUTH WING.

ELEV.= 54.68' BAKERSFIELD COLLEGE DATUM

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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LANCE R. BAKER
No. 47855
CIVIL
STATE OF CALIFORNIA

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1801 Panorama Dr.
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SHEET TITLE

GRADING AND DRAINAGE PLAN

DRAWN BY: SJUE JOB NUMBER: 23024.02

SHEET NO.

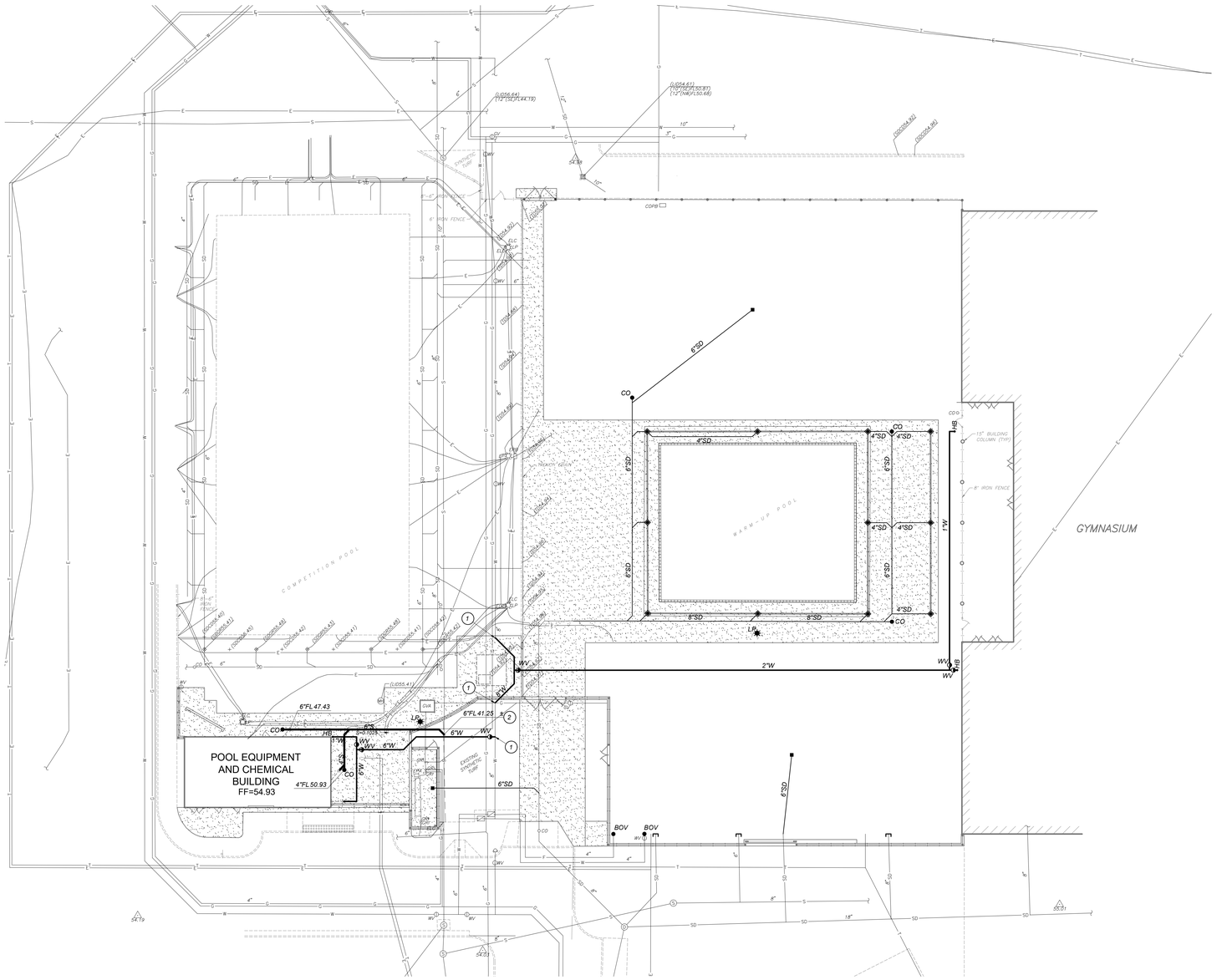
C-400

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

PLOT BY: SJUE PLOT DATE: Mar 06, 2025 - 2:03PM Drawing name: P:\2125-BLLG\SITE\Production\Drawings\23244A_GRDT.dwg

ISSUED: SEPTEMBER 9, 2025



UTILITY LEGEND:

S	SEWER MAIN, SIZE AS NOTED ON PLANS. PIPE BEDDING AND BACKFILL PER DETAIL [B/C-601]
W	WATER MAIN, SIZE AS NOTED ON PLANS, MIN. 30" COVER. PIPE BEDDING AND BACKFILL PER DETAIL [B/C-601]. THRUST BLOCKS PER DETAIL [E/C-602].
SD	STORM DRAIN PIPE, SEE GRADING PLAN
FF	FINISHED FLOOR
FL	FLOWLINE
● BOV	BLOW-OFF VALVE PER [D/C-602]
●CO	SEWER CLEANOUT PER DETAIL [F/C-601]
•HB	HOSE BIBB PER DETAIL [F/C-602]
◑WV	WATER VALVE PER [H/C-601]
⊢	CAP END OF UTILITY LINE.
×---	POINT OF CONNECTION TO EXISTING OR PROPOSED UTILITY, COORDINATE WITH PLUMBING PLANS PRIOR TO CONNECTION.
S=0.0020	FLOWLINE SLOPE AND DIRECTION OF FLOW
1	CONNECT TO EXISTING WATER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
2	CONNECT TO EXISTING SEWER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.

GENERAL SITE UTILITY NOTES:

1. AS FIRST ORDER OF WORK, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF LOCATIONS, SIZE AND DEPTH.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH, AND TYPE OF ALL EXISTING UTILITIES AND INTERFERENCES SITUATED ALONG THE ROUTE OF THE PROPOSED CONSTRUCTION PRIOR TO COMMENCEMENT OF EXCAVATION, FABRICATION, AND INSTALLATION. THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL EXISTING UNDERGROUND UTILITIES AND, IN THE EVENT OF ANY CONFLICTS, SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING.
3. SEE IRRIGATION PLANS FOR PROPOSED IRRIGATION PIPE ALIGNMENT.
4. COORDINATE EXACT POINTS OF CONNECTION TO BUILDING PLUMBING AND NOTIFY THE ENGINEER OF ANY CONFLICT SO THAT ADJUSTMENTS CAN BE MADE IF NEEDED.
5. SAWCUT EXISTING CONCRETE IMPROVEMENTS AS NECESSARY TO INSTALL NEW WATER OR SEWER IMPROVEMENTS. CONSTRUCT NEW CONCRETE IMPROVEMENTS TO MATCH ADJACENT CONCRETE IMPROVEMENTS AND JOIN TOGETHER WITH DOWEL BARS PER DETAIL [B/C-600]
6. INSTALLATION, TYPE, AND MANUFACTURER'S MODELS OF DOMESTIC WATER METERS, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCES OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
7. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, FIXTURES, EQUIPMENT, SUPPORTS, ETC., SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER OR WITH STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL, ARCHITECTURAL OR ANY OTHER ELEMENTS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
8. ANY INSPECTION TO BE MADE BY THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE A MINIMUM OF 24 HOUR NOTICE.
9. PURITY TESTS ARE REQUIRED ON ALL WATER SYSTEM INSTALLATIONS. CONTRACTOR TO COORDINATE WITH THE AUTHORITY HAVING JURISDICTION.
10. IF THE TOP OF THE STEM OF ANY WATER GATE VALVE IS DEEPER THAN 4' BELOW FINISHED PAVEMENT GRADE, THE CONTRACTOR SHALL INSTALL A STEM EXTENSION SO THAT THE TOP OF THE STEM, WITH EXTENSION, SHALL BE NO DEEPER THAN 4' NOR SHALLOWER THAN 2' FROM FINISHED GRADE.
11. BACKFILL UTILITY TRENCHES PER DETAIL [B/C-601]
12. ADJUST EXISTING UTILITY LIDS TO FINISHED GRADE PER UTILITY COMPANY STANDARDS AND DETAIL [C/C-601] AND INSTALL TRAFFIC RATED LIDS WHERE LOCATED IN A TRAFFIC AREA.

SCALE: N 1"=20'

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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER — ERIC R. BLAIR — No. 47033 — CIVIL — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Avenue,
Bakersfield, CA 93301

BAKERSFIELD COLLEGE POOL EQUIPMENT BUILDING

1801 Panorama Dr.
Bakersfield, CA 93305

SHEET TITLE

UTILITY PLAN

DRAWN BY: S.JUE JOB NUMBER: 23024.02

SHEET NO.

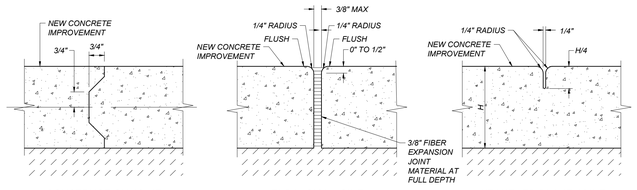
C-500

DATE: MARCH 7, 2025

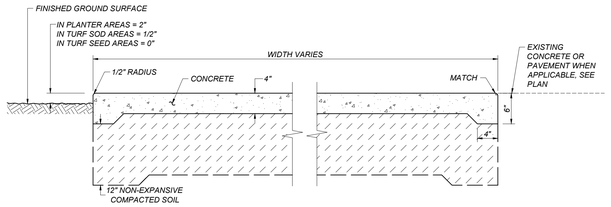
CONSTRUCTION DOCUMENTS

PLOT BY: S.JUE PLOT DATE: Mar 04, 2025 - 10:54am Drawing Name: P:\2023-04\11-SITE\Production\Drawings\23244_UTIL.dwg

ISSUED: SEPTEMBER 9, 2025



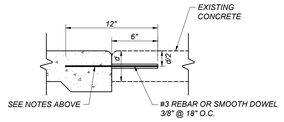
CONSTRUCTION JOINT EXPANSION JOINT WEAKENED PLANE JOINT



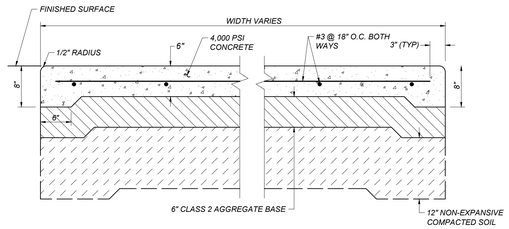
A C-600 REGULAR-DUTY CONCRETE
NOT TO SCALE

NOTES:

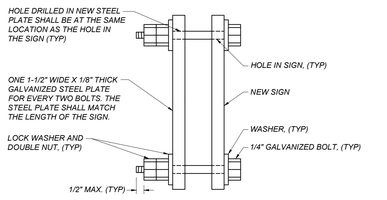
1. DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER.
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.
3. FILL HOLE WITH APPROVED ADHESIVE BEFORE INSERTING DOWEL INTO EXISTING CONCRETE.
4. WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
5. WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.



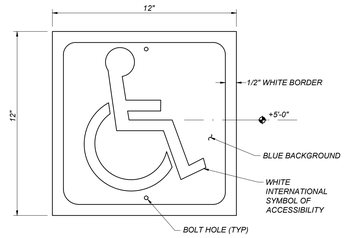
B C-600 DOWEL BAR
NOT TO SCALE



C C-600 HEAVY DUTY CONCRETE PAVEMENT STRUCTURAL SECTION
NOT TO SCALE



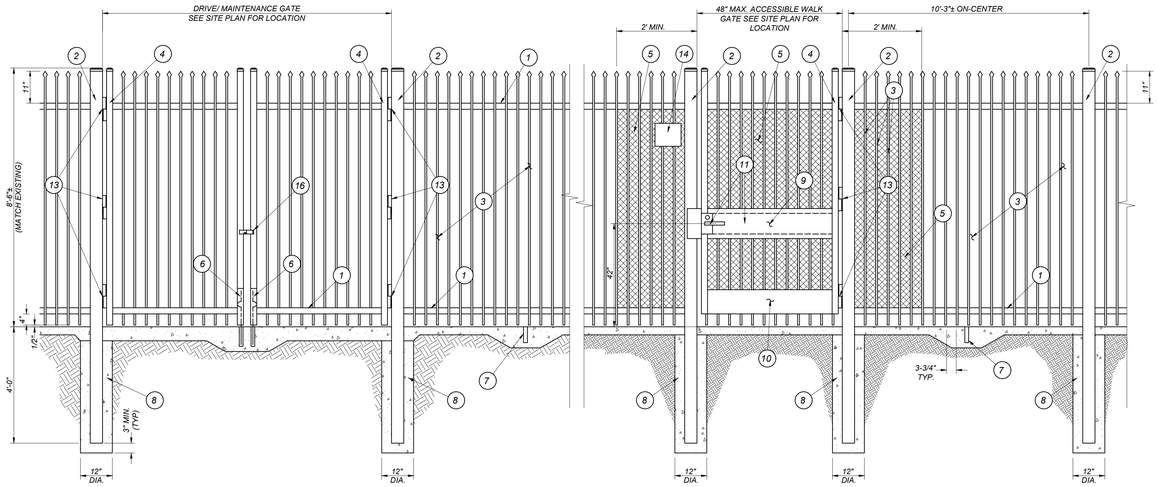
SIGN MOUNTING DETAIL



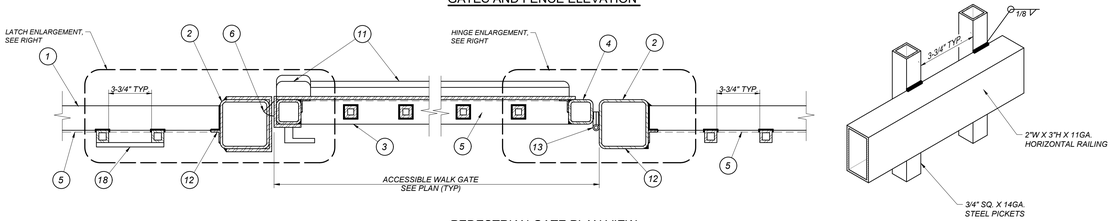
NOTES:

1. SIGN BY "STOP SIGNS AND MORE", MODEL SKU:PAR-1124 WITH WEATHER AND GRAFFITI PROTECTION OR APPROVED EQUAL.
2. BACKING PLATE 12"x12"x16 GAUGE METAL PLATE, SANDWICH METAL PICKETS BETWEEN SIGN AND BACKING PLATE. FASTEN TOGETHER WITH TAMPER RESISTANT THRU BOLTS SIMILAR TO ABOVE.

D C-600 ENTRY ACCESSIBILITY SIGN
NOT TO SCALE



GATES AND FENCE ELEVATION



PEDESTRIAN GATE PLAN VIEW

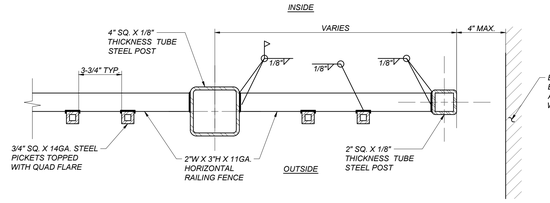
DECORATIVE METAL FENCE AND GATE LEGEND:

1. 2"W x 3"H x 11GA. HORIZONTAL RAILING FENCE
2. 4" SQ. X 1/8" THICKNESS TUBE STEEL POST
3. 3/4" SQ. x 14GA. STEEL PICKETS TOPPED WITH QUAD FLARE ADORNMENTS; CONTRACTOR TO COORDINATE WITH OWNER TO MATCH EXISTING ADORNMENT PRIOR TO CONSTRUCTION
4. 2" SQ. X 1/8" THICKNESS TUBE STEEL METAL GATE FRAME
5. FLATTENED EXPANDED METAL 1/2"X16 GA.
6. STRIKE PLATE
7. INSTALL GATE HOLDBACK FOR ALL GATES DROP ROD PER DETAIL [C/C-603].
8. CONCRETE FOOTING, TYPICAL.
9. 12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES, THE FULL WIDTH OF THE GATE. PROVIDE A WELDED CAP TOP AND BOTTOM TO CLOSE OFF THE CAVITY. THE PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.
10. 10" HIGH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES OF THE GATE AT BOTTOM, FULL WIDTH OF THE GATE. PROVIDE A WELDED CAP TOP AND BOTTOM TO CLOSE OFF THE CAVITY. THE KICK PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.
11. ALL PEDESTRIAN WALK GATES SHALL HAVE ADA/CBC COMPLIANT ACCESSIBLE HARDWARE WHEN LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL. GATE LATCH SHALL REQUIRE A MAXIMUM OF 5 LBS OF PRESSURE TO OPERATE. HARDWARE PER THE SPECIFICATIONS. GATE LATCH PER DETAIL [B/C-603].
12. 1" x 1" x 1/8" METAL ANGLE WELD WITH METAL GATE FRAME
13. HINGES PER THE SPECIFICATIONS
14. ACCESSIBLE GATE SIGN PER DETAIL [D/C-600]

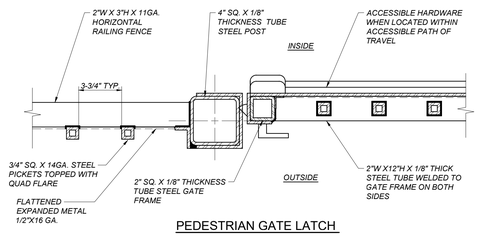
FENCE AND GATE NOTES:

1. CONTRACTOR TO COORDINATE PLACEMENT OF STEEL POSTS FOR FENCING WHICH OCCURS ADJACENT TO BUILDINGS, COLUMNS OR BLOCK WALLS PLACING CONCRETE. VERIFY CLEAR OPENINGS IN FIELD PRIOR TO CONSTRUCTION.
2. FENCE PANEL SYSTEM SHALL BE INDUSTRIAL GRADE.
3. MOWSTRIP THICKNESS AT GATE OPENINGS TO BE 6" THICK.
4. CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.
5. ALL ACCESSIBLE GATES SHALL HAVE:
   a. LEVER TYPE LATCH (HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY ADA. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
   b. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

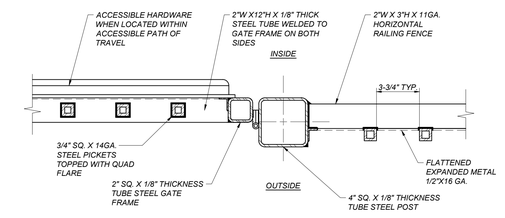
E C-600 8' DECORATIVE METAL FENCE AND GATE
NOT TO SCALE



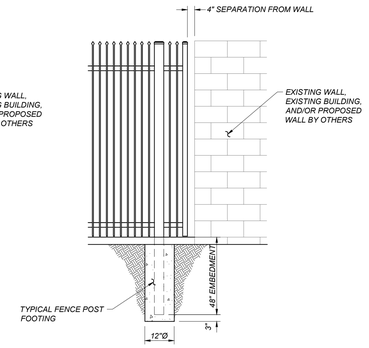
METAL FENCE PANEL AT WALL



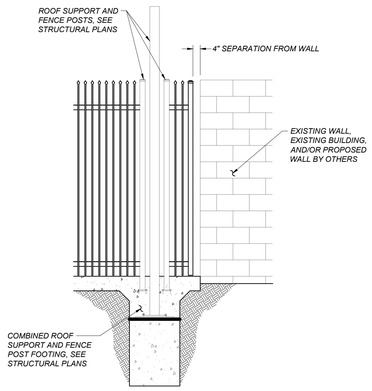
PEDESTRIAN GATE LATCH



PEDESTRIAN GATE HINGE



WALL SEPARATION DETAIL



POOL EQUIPMENT ROOF SUPPORT CONNECTION DETAIL

CONTRACTOR TO MATCH EXISTING PAINTED GALVANIZED STEEL FENCE AND COLOR. FOR COLOR, REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS.

ISSUED: SEPTEMBER 9, 2025

PLOT DATE: Mon Mx. 2025 - 10:54AM Drawing name: P:\223-PLAN\SHEET PRODUCTION\Drawings\223PLAN_SHT01.dwg

PLOT BY: SJUE

AGENCY APPROVAL DSA # 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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BAKERSFIELD COLLEGE POOL EQUIPMENT BUILDING

1801 Panorama Dr.
Bakersfield, CA 93305

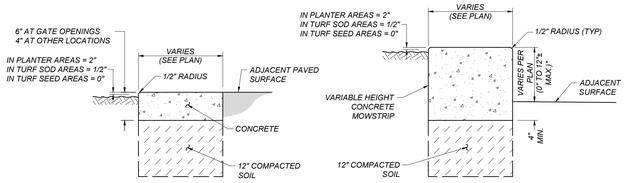
SHEET TITLE
DETAILS

DRAWN BY: SJUE JOB NUMBER: 23024.02

SHEET NO.
C-600

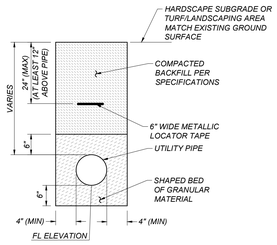
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS



STANDARD MOWSTRIP THICKENED MOWSTRIP

A C-601 CONCRETE MOWSTRIP
NOT TO SCALE



B C-601 TRENCH DETAIL FOR UTILITY LINES
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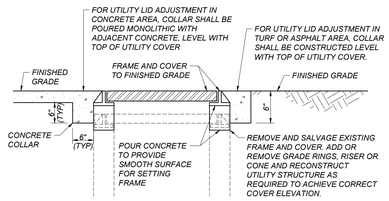

C C-601 ADJUST UTILITY LID
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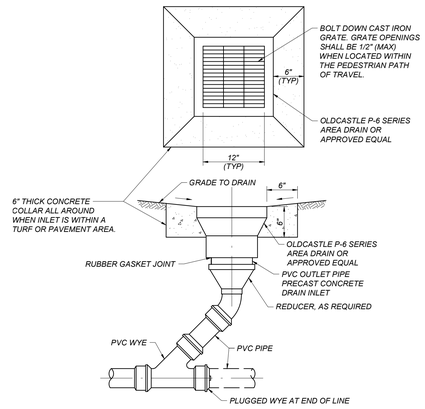

D C-601 P-6 SERIES AREA DRAIN
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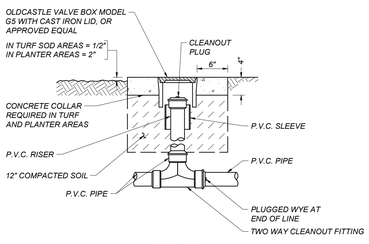
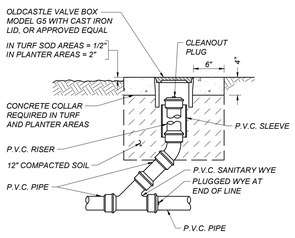


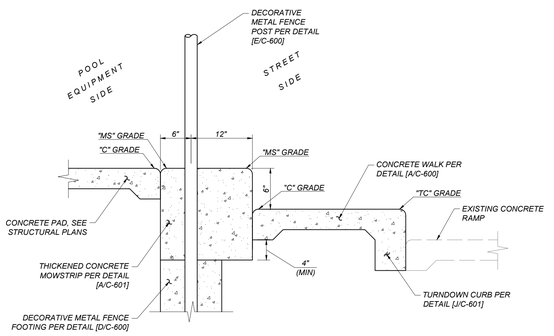
TWO-WAY



ONE-WAY

NOTES:
1. USE ONE-WAY CLEANOUTS AT ALL ANGLE POINTS
2. TWO-WAY CLEANOUTS AT ALL OTHER LOCATIONS
3. 6" THICK CONCRETE COLLAR IN VEHICULAR TRAFFIC AREAS

F C-601 SURFACE CLEANOUT
NOT TO SCALE



G C-601 GRADE DIFFERENTIAL AT POOL EQUIPMENT YARD
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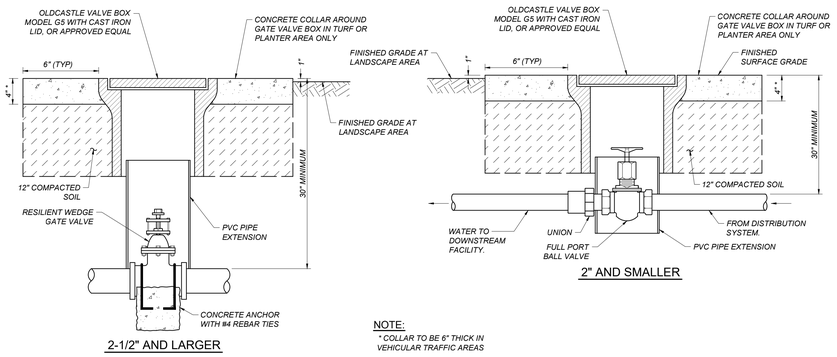
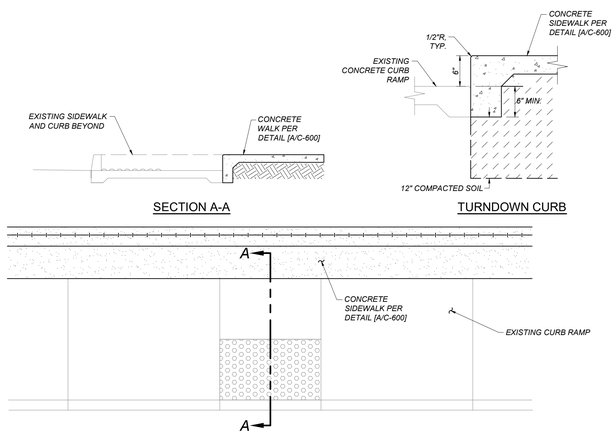


NOTE:
* COLLAR TO BE 6" THICK IN VEHICULAR TRAFFIC AREAS

H C-601 WATER VALVE AND LID
NOT TO SCALE



J C-601 CONCRETE TURNDOWN CURB AT EXISTING RAMP
NOT TO SCALE

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1801 Panorama Dr.
Bakersfield, CA 93305

SHEET TITLE
DETAILS

DRAWN BY: SJUE JOB NUMBER: 23024.02

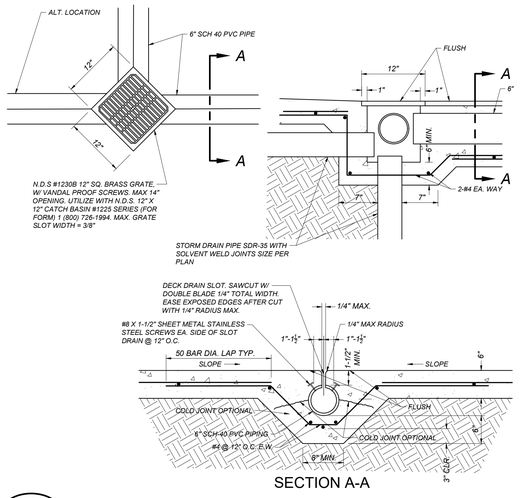
SHEET NO.
C-601

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

PLOT BY: SJUE
PLOT DATE: Mon Oct 06, 2025 - 10:54am
Drawing name: P:\2023\04-Apps\Site\Production\Drawings\23024A4_ARTUI.dwg

ISSUED: SEPTEMBER 9, 2025



A C-602 SLOT DRAIN CONNECTION
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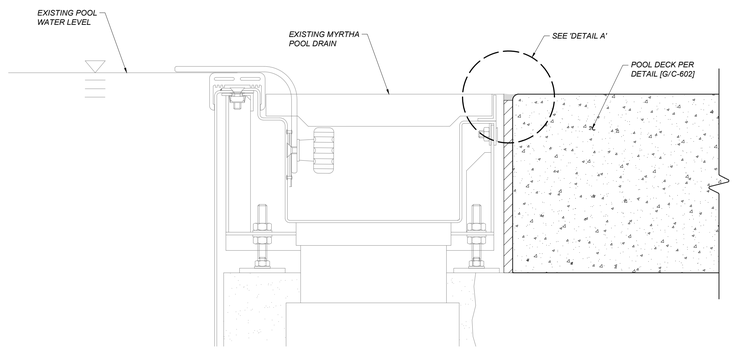

B C-602 POOL DECK AT EXISTING DRAIN DETAIL
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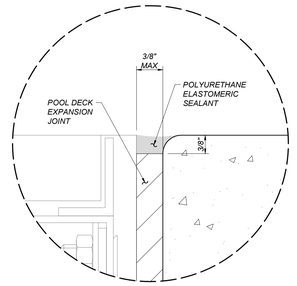
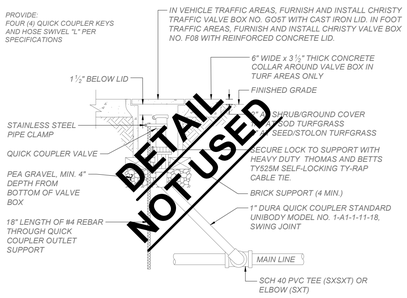


DETAIL A



C C-602 QUICK COUPLER VALVE
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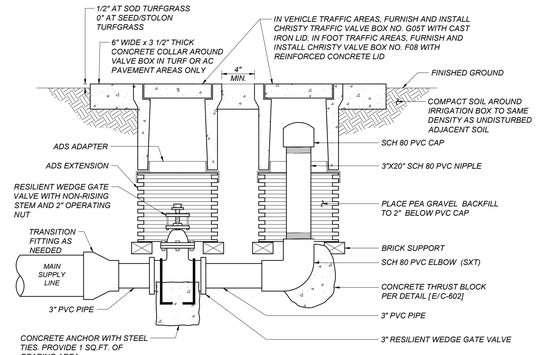

D C-602 BLOW-OFF ASSEMBLY
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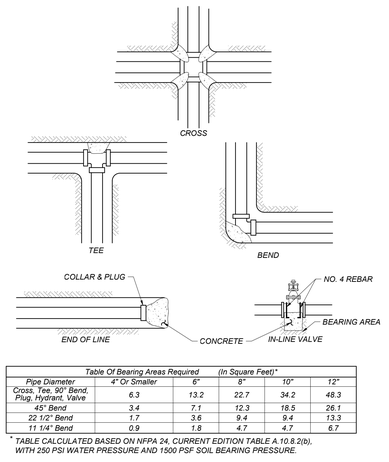
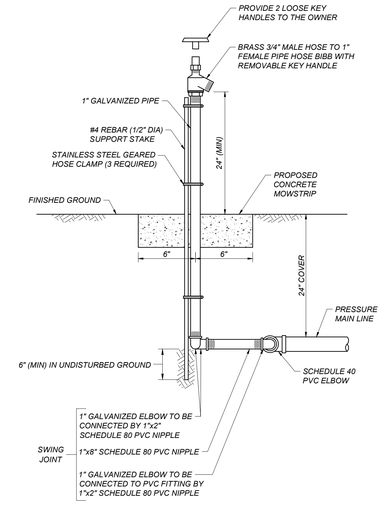


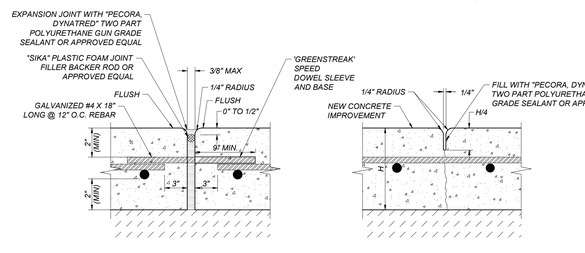
Table Of Bearing Areas Required		(In Square Feet)*			
Pipe Diameter	4" Or Smaller	6"	8"	10"	12"
Cross, Tee, 90° Bend, Plug, Hydrant, Valve	6.3	13.2	22.7	34.2	48.3
45° Bend	3.4	7.1	12.3	18.5	26.1
22 1/2° Bend	1.7	3.6	9.4	9.4	13.3
11 1/4° Bend	0.9	1.8	4.7	4.7	6.7

* TABLE CALCULATED BASED ON NFPA 24, CURRENT EDITION TABLE A.10.8.2(b), WITH 250 PSI WATER PRESSURE AND 1500 PSF SOIL BEARING PRESSURE.

E C-602 CONCRETE THRUST BLOCKS
NOT TO SCALE

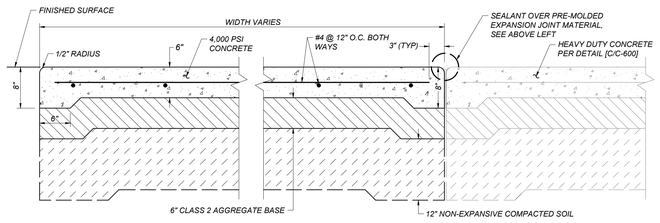


F C-602 HOSE BIBB INSTALLATION
NOT TO SCALE

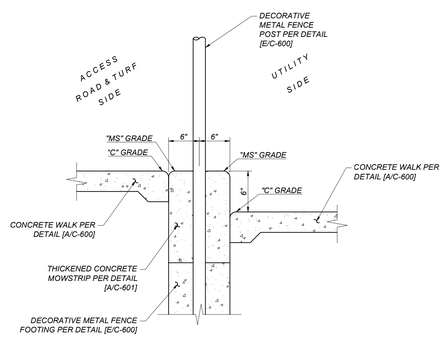


NOTES:

1. ALL EXPANSION JOINTS MUST BE FULL DEPTH OF THE CONCRETE SECTION.
2. PROVIDE 6" OF AGGREGATE BASE COMPACTED TO 95% UNDER ALL POOL DECKS OVER COMPACTED SUBGRADE TYP.
3. SEE SITE PLAN FOR LOCATION OF EXPANSION JOINTS.
4. ALL REBAR REINFORCEMENT IN POOL DECK SHALL BE GALVANIZED.
5. ALL POOL DECK CONCRETE SHALL HAVE A MEDIUM BROOM FINISH WITH GROOVES PERPENDICULAR TO THE POOL DECK SLOT DRAINS.
6. SEE AQUATICS PLANS FOR LOCATIONS WHERE EMBEDDED POOL EQUIPMENT REQUIRE 9" THICK CONCRETE.



G C-602 POOL DECK
NOT TO SCALE



H C-602 GRADE DIFFERENTIAL AT GAS UTILITY ENCLOSURE
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REGISTERED PROFESSIONAL ENGINEER C. LANE R. BAKER No. 47,455 CIVIL STATE OF CALIFORNIA

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Avenue,
Bakersfield, CA 93301

BAKERSFIELD COLLEGE POOL EQUIPMENT BUILDING

1801 Panorama Dr.
Bakersfield, CA 93305

SHEET TITLE
DETAILS

DRAWN BY: SJUE JOB NUMBER: 23024.02

SHEET NO.
C-602
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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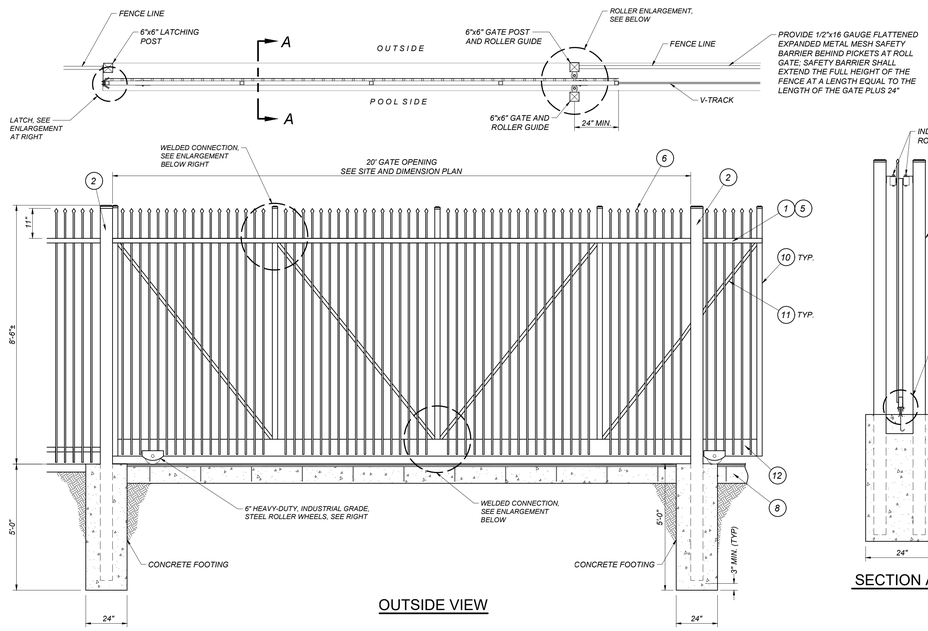
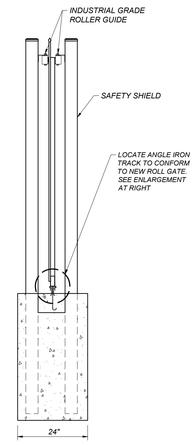
P/OT BY: SJUE

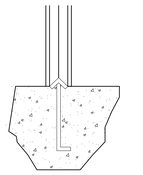
ISSUED: SEPTEMBER 9, 2025



OUTSIDE VIEW

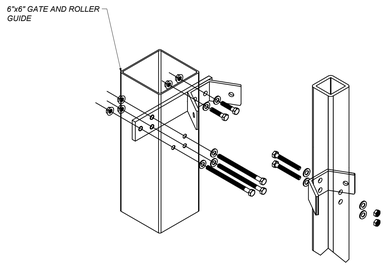


SECTION A-A

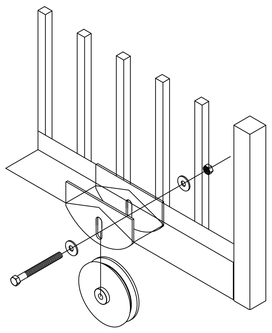


ONE CONTINUOUS LENGTH OF 3/8" THICK 1"X1" STEEL ANGLE WITH 6" LONG 1/2" DIAMETER HOOKED RODS WELDED TO ANGLE IRON AT INTERNALS OF 6" O.C.; HOOKS TO BE PLACED IN ALTERNATING DIRECTION

SECTION B-B



LATCH ASSEMBLY



WHEEL ASSEMBLY

DECORATIVE METAL FENCE AND GATE LEGEND:

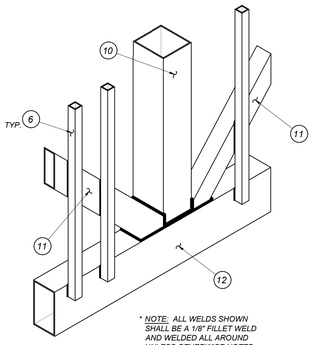
1. 2"W x 3"H x 11GA. HORIZONTAL RAILING FENCE
2. 6" SQ. X 1/8" THICKNESS TUBE STEEL POST
3. 1/2" X 16 GA FLATTENED EXPANDED METAL MESH SAFETY BARRIER BEHIND PICKETS; SAFETY BARRIER SHALL EXTEND THE FULL HEIGHT OF THE FENCE AT A LENGTH EQUAL TO THE LENGTH OF THE GATE PLUS 24"
4. 2" SQ. X 1/8" THICKNESS TUBE STEEL METAL GATE FRAME
5. 4"H X 1/8" THICK FLAT STEEL ACROSS FULL EXTENT OF GATE
6. 3/4" SQ. X 14 GA. STEEL PICKETS TOPPED WITH QUAD FLARE ADONMENTS; CONTRACTOR TO COORDINATE WITH OWNER TO MATCH EXISTING ADORNMENTS PRIOR TO CONSTRUCTION
7. 2"W X 3"H X 11 GA. HORIZONTAL FENCE RAILING
8. CONCRETE FOOTING, TYPICAL.
9. POST CAP
10. 2" SQ X 1/8" THICK TUBE STEEL POST SPACED 9' O.C.
11. 2" SQ X 1/8" THICK TUBE STEEL DIAGONAL BRACE
12. 2"W X 6" HIGH X 3/8" THICK TUBE STEEL BOTTOM RAIL

FENCE AND GATE NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FENCE PARTS AND COORDINATE WITH OWNER TO MATCH. THE CONTRACTOR SHALL REPORT BACK ANY FINDINGS THAT DIFFER FROM THE DETAILS SHOWN.
2. TOP RAIL OF GATE SHALL ALIGN WITH THE TOP RAIL OF THE ADJACENT FENCE.
3. THE DISTANCE BETWEEN THE TOP OF PICKET TO THE TOP OF THE HORIZONTAL TOP RAIL SHALL MATCH THE EXISTING FENCE.
4. FENCE PANEL SYSTEM AND HARDWARE SHALL BE INDUSTRIAL GRADE.
5. ALL WELDS SHOWN SHALL BE A 1/8" FILLET WELD AND WELDED ALL AROUND UNLESS OTHERWISE NOTED.

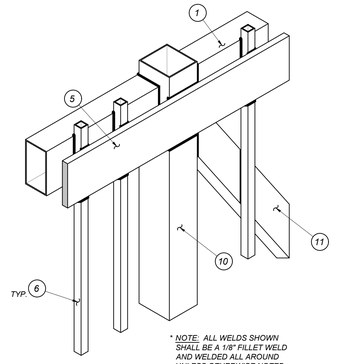
A C-603 TYPICAL DECORATIVE METAL ROLL GATE

NOT TO SCALE



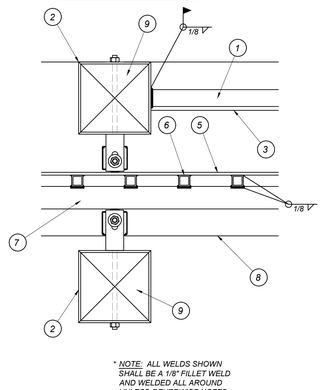
* NOTE: ALL WELDS SHOWN SHALL BE A 1/8" FILLET WELD AND WELDED ALL AROUND UNLESS OTHERWISE NOTED.

WELDED CONNECTION AT MIDSPAN



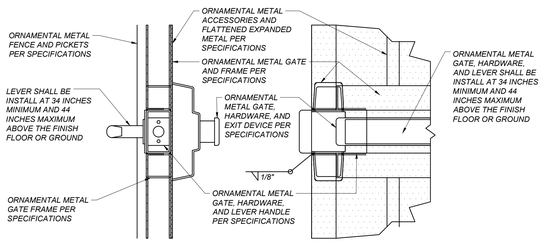
* NOTE: ALL WELDS SHOWN SHALL BE A 1/8" FILLET WELD AND WELDED ALL AROUND UNLESS OTHERWISE NOTED.

WELDED CONNECTION AT TOP RAIL



* NOTE: ALL WELDS SHOWN SHALL BE A 1/8" FILLET WELD AND WELDED ALL AROUND UNLESS OTHERWISE NOTED.

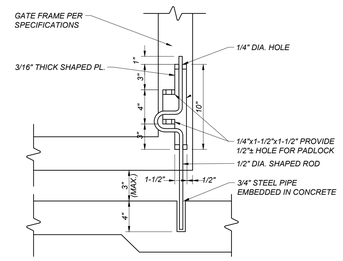
ROLLER GUIDE



OUTSIDE INSIDE

B C-603 GATE LATCH HARDWARE

NOT TO SCALE



C C-603 DROP ROD

NOT TO SCALE

CONTRACTOR TO MATCH EXISTING PAINTED GALVANIZED STEEL FENCE AND COLOR. FOR COLOR, REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS.

ISSUED: SEPTEMBER 9, 2025

PLOT DATE: Mon Oct 06, 2025 - 09:54AM Drawing name: P:\23-24\23-24ALL\SITE\Production\Drawings\23-24ALL_SITE.dwg

PLOT BY: SJUE

AGENCY APPROVAL DSA # 03-124689

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
2100 Chester Avenue,
Bakersfield, CA 93301

BAKERSFIELD COLLEGE POOL EQUIPMENT BUILDING

1801 Panorama Dr.
Bakersfield, CA 93305

SHEET TITLE

DETAILS

DRAWN BY: SJUE JOB NUMBER: 23024.02

SHEET NO.

C-603

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

BUILDING INFO NOTES

BLDG ID	BUILDING NAME	DSA A#
1	(E) CHILD DEVELOPMENT CENTER	03-102944, 03-101128
2	(E) FAMILY AND CONSUMER EDUCATION	A-30573, 03-122405, 03-124642
3	(E) HUMANITIES	A-11900, 03-121376, 03-122210, 03-122405
4	(E) GET TRANSIT CENTER	02-111473
5	(E) NORMAN LEVAN CENTER	03-111784
6	(E) BUSINESS	03-118883
7	(E) ADMINISTRATION	02-112107, 03-103434, 03-118883
8	(E) CENTER FOR STUDENT SERVICES	A-11900, A-32986, A-58135, 02-112107, 03-103559, 03-118340, 03-115792, 03-115628
9	(E) PERFORMING ARTS CENTER	02-111686, 03-115372
10	(E) SCIENCE / ENGINEERING	A-11900, A-58135, A-39682, 03-115937, 03-114811, 03-120006, 03-123712
11	(E) GENERAL SCIENCE	A-11714
12	(E) APPLIED SCIENCE & TECHNOLOGY	A-12796, 03-107529, 03-121924, 03-122405
13	(E) HORTICULTURE LAB	03-122237
14	(E) AGRICULTURE	03-122075
15	(E) STEM	A-13466, 03-116091
16	(E) MATH / SCIENCE	A-20984, A-58135, A-59527, 03-108011, 03-115628, 03-121655, 03-120500, 03-122596
17	(E) MEMORIAL STADIUM	A-11440, A-67256, 03-119704, 03-116088, 03-107100, 03-106620, 03-120073, 03-116379, 03-118381, 03-1222905
18	(E) COMBINED GYM & FIELD HOUSE	03-120152
19	(E) GYMNASIUM	A-11714, 03-115566
20	(E) POOL BLDG - DEMO UNDER SEPARATE PERMIT	
21	(E) WARM-UP POOL	A-11714
22	(E) POOL	03-104296
23	(E) FORUM	A-27967
24	(E) LANGUAGE ARTS - SHAFER HALL	A-12796, A-58135, 03-113971, 03-115628, 03-122405
25	(E) CAMPUS CENTER	02-112107, 03-122168, 03-118883
26	(E) BUSINESS SERVICES	03-104504, 03-121587
27	(E) LEVINSON HALL	03-122124
28	(E) MAINTENENCE AND OPERATIONS	03-116132
29	(E) BASEBALL FIELD	03-111011, 03-100486

DEMO GENERAL NOTES

1. SEE CIVIL, ELECTRICAL, PLUMBING, STRUCTURAL AND AQUATICS DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
2. PROVIDE ADDITIONAL DEMOLITION AS NEEDED TO ACCOMMODATE THE NEW SCOPE OF WORK.
3. PROTECT IN PLACE EXISTING EQUIPMENT, FIXTURES, AND FINISHES THAT ARE TO REMAIN. IF DAMAGED, REPAIR/REPLACE IN KIND.
4. PROTECT AND DELIVER ITEMS TO COLLEGE AS NOTED ON PLANS.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
6. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN CONFINES OF DEMOLITION LIMIT LINE.
7. IDENTIFY ANY UNDOCUMENTED UTILITIES AND BRING TO DISTRICT, CONSTRUCTION MANAGER AND ARCHITECT'S ATTENTION.
8. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS, ORGANIC MATERIALS, AND GRINDING TREE STUMP.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED FOR PRIVATE, LOCAL, AND STATE JURISDICTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
11. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
12. ALL ELEMENTS OF THE STRUCTURE WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST AND TO THE COMPLETE SATISFACTION OF THE OWNER. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO MINIMIZE SUCH DAMAGE.
13. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS, AND STREETS.
14. CONTRACTOR IS RESPONSIBLE FOR DUST CONTAINMENT MEASURES DURING ENTIRE DEMOLITION AND CONSTRUCTION PHASES.
15. DEMOLITION IS LIMITED TO WITHIN LIMIT LINE UNLESS OTHERWISE NOTED.
16. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT TO BE DEMOLISHED, REMOVED, AND DISPOSED OF.
17. DEMOLITION OF ASPHALT SHALL INCLUDE ALL STRIPING.
18. REMOVE ALL OBSTRUCTIONS, RELOCATE EQUIPMENT, PREPARE SITE FOR CONCRETE AND/OR ASPHALT PAVING.
19. DEMOLITION KEYNOTES REFER TO 'COMPLETE' MEANS DEMOLISH, REMOVE, AND CLEAN UP AFFECTED AREA.
20. SAW CUT AND DEMO EXISTING CONCRETE BUILDING FLOOR SLAB AND EXISTING CONCRETE SITE PAVING AS REQUIRED FOR ALL NEW FOOTING EXTENSIONS AND ALL NEW UNDERSLAB UTILITES INCLUDING ELECTRICAL, PLUMBING, AND ALL SITE UTILITIES.
21. ALL EXISTING SIGNAGE TO BE SALVAGED AND HANDED OVER TO DISTRICT FOR REUSE. DIPOSE IF NOT NEEDED BY DISTRICT.
22. NOTE THAT ALL DEMOLITION SHALL COMPLY WITH ARTICLE 33 CFC.

LEGEND - DEMOLITION

- LIMITS OF DEMO WORK
- (E) BUILDINGS (NO WORK TO BE DONE)
- EXTENT OF DEMO WORK (DEMOLISH ALL HARDSCAPE AND LANDSCAPING AND SALVAGE ALL SITE FURNISHINGS AND SIGNAGE AS POSSIBLE) SEE PLAN FOR FURTHER INFORMATION
- (E) BUILDING TO BE DEMOLISHED
- (E) BASEMENT

OVERALL SITE PLAN - DEMOLITION | 1" = 120'-0" | 1

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
OVERALL SITE PLAN - DEMOLITION

DRAWN BY: JOB NUMBER: 23024.02

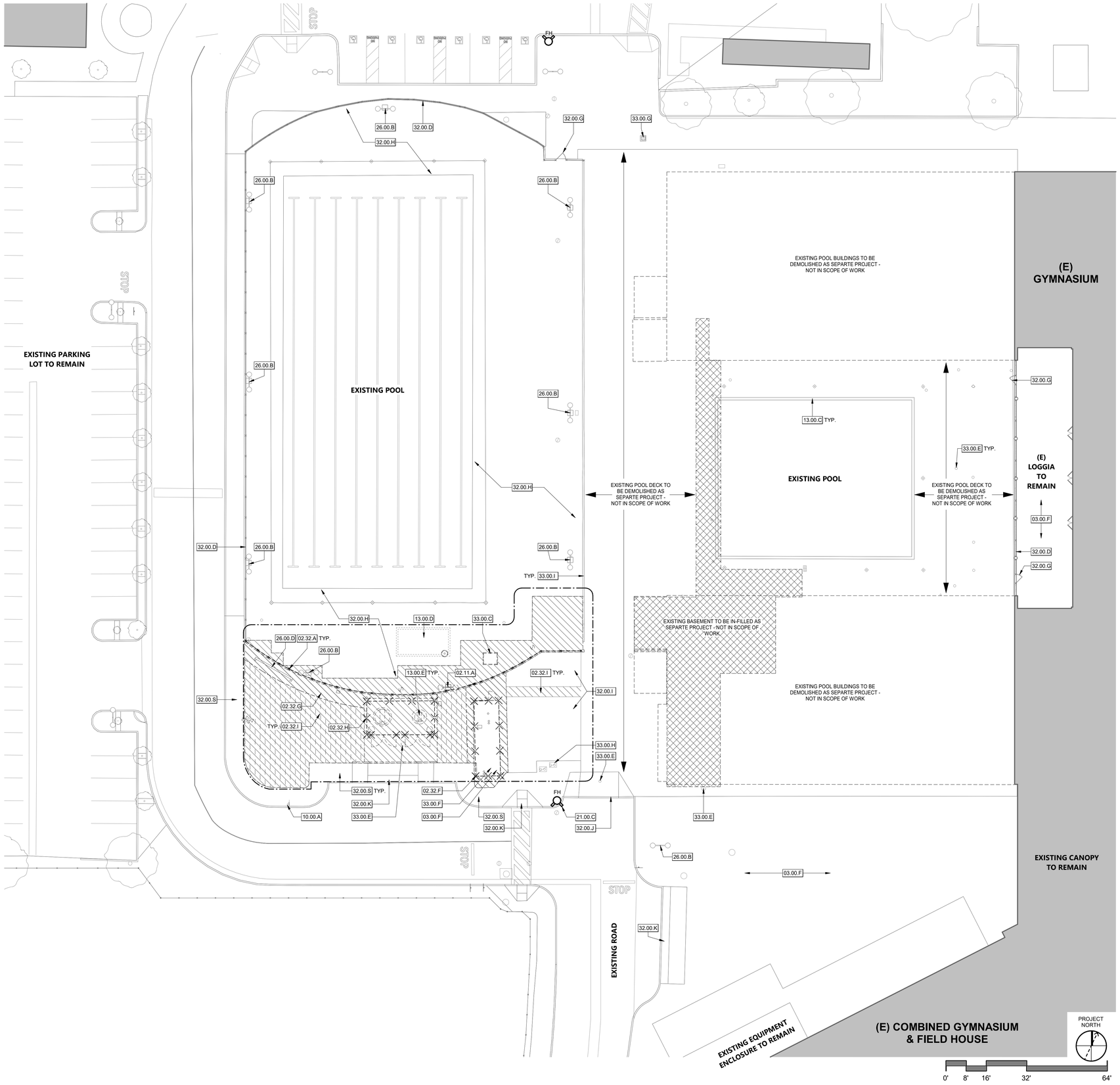
SHEET NO.
A-011

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:15 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



KEYNOTES

02.11.A	REMOVE (E) LIGHT STANDARDS AND SAVE FOR RELOCATION. REPLACE IN KIND IF DAMAGED.
02.32.A	DEMO (E) FENCE AND ASSOCIATED FOOTING.
02.32.F	DEMO (E) CHAIN LINK FENCE AND ASSOCIATED FOOTING.
02.32.G	SHUT-OFF EXISTING IRRIGATION. CLEAR, GRUB, AND REMOVE EXISTING LANDSCAPE, HARDSCAPE, AND OR IRRIGATION. CUT AND CAP ACTIVE OR LIVE IRRIGATION SUPPLY LINES.
02.32.H	DEMO (E) CHAIN LINK POOL STORAGE YARD INCLUDING BUT NOT LIMITED TO CHAIN LINK FENCE, ASSOCIATED FOOTINGS, GATES, AND SIGNAGE.
02.32.I	REMOVE (E) ARTIFICIAL TURF. HAND OVER TO DISTRICT FOR REUSE. DISPOSE OF IF NOT NEEDED.
03.00.F	(E) CONCRETE PAVING TO REMAIN, PROTECT IN PLACE. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
10.00.A	(E) SIGNAGE TO REMAIN, PROTECT IN PLACE.
13.00.C	(E) POOL GUTTER AND GRATE TO REMAIN, PROTECT IN PLACE.
13.00.D	(E) SURGE TANK BELOW DECK TO REMAIN, PROTECT IN PLACE.
13.00.E	REMOVE AND RELOCATE ALL (E) POOL EQUIPMENT AND POOL CHEMICAL UNITS AS IDENTIFIED ON AQUATICS EQUIPMENT DEMOLITION DRAWINGS.
21.00.C	(E) FIRE HYDRANT TO REMAIN, PROTECT IN PLACE.
26.00.B	(E) LIGHT STANDARDS TO REMAIN, PROTECT IN PLACE.
26.00.D	(E) SCOREBOARD TO REMAIN, PROTECT IN PLACE.
32.00.D	(E) ORNAMENTAL FENCE TO REMAIN, PROTECT IN PLACE.
32.00.G	(E) GATE TO REMAIN, PROTECT IN PLACE.
32.00.H	(E) POOL DECK TO REMAIN, PROTECT IN PLACE.
32.00.I	(E) ARTIFICIAL TURF TO REMAIN, PROTECT IN PLACE, U.O.N.
32.00.J	(E) DRIVEWAY RAMP TO REMAIN, PROTECT IN PLACE.
32.00.K	(E) CURB RAMP TO REMAIN, PROTECT IN PLACE.
32.00.S	(E) SIDEWALK TO REMAIN, PROTECT IN PLACE. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
33.00.C	(E) GAS TO REMAIN, PROTECT IN PLACE.
33.00.E	(E) UTILITIES TO REMAIN, PROTECT IN PLACE.
33.00.F	(E) MAIN GAS LINE TO REMAIN, PROTECT IN PLACE.
33.00.G	(E) DRAIN TO REMAIN, PROTECT IN PLACE.
33.00.H	(E) UTILITY BOX. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
33.00.I	(E) TRENCH DRAIN TO REMAIN, PROTECT IN PLACE.

DEMO GENERAL NOTES

1. SEE CIVIL, ELECTRICAL, PLUMBING, STRUCTURAL AND AQUATICS DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
2. PROVIDE ADDITIONAL DEMOLITION AS NEEDED TO ACCOMMODATE THE NEW SCOPE OF WORK.
3. PROTECT IN PLACE EXISTING EQUIPMENT, FIXTURES, AND FINISHES THAT ARE TO REMAIN. IF DAMAGED, REPAIR/REPLACE IN KIND.
4. PROTECT AND DELIVER ITEMS TO COLLEGE AS NOTED ON PLANS.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
6. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN CONFINES OF DEMOLITION LIMIT LINE.
7. IDENTIFY ANY UNDOCUMENTED UTILITIES AND BRING TO DISTRICT, CONSTRUCTION MANAGER AND ARCHITECT'S ATTENTION.
8. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS, ORGANIC MATERIALS, AND GRINDING TREE STUMP.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED FOR PRIVATE, LOCAL, AND STATE JURISDICTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
11. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
12. ALL ELEMENTS OF THE STRUCTURE WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST AND TO THE COMPLETE SATISFACTION OF THE OWNER. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO MINIMIZE SUCH DAMAGE.
13. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS, AND STREETS.
14. CONTRACTOR IS RESPONSIBLE FOR DUST CONTAINMENT MEASURES DURING ENTIRE DEMOLITION AND CONSTRUCTION PHASES.
15. DEMOLITION IS LIMITED TO WITHIN LIMIT LINE UNLESS OTHERWISE NOTED.
16. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT TO BE DEMOLISHED, REMOVED, AND DISPOSED OF.
17. DEMOLITION OF ASPHALT SHALL INCLUDE ALL STRIPING.
18. REMOVE ALL OBSTRUCTIONS, RELOCATE EQUIPMENT, PREPARE SITE FOR CONCRETE AND/OR ASPHALT PAVING.
19. DEMOLITION KEYNOTES REFER TO 'COMPLETE' MEANS DEMOLISH, REMOVE, AND CLEAN UP AFFECTED AREA.
20. SAW CUT AND DEMO EXISTING CONCRETE BUILDING FLOOR SLAB AND EXISTING CONCRETE SITE PAVING AS REQUIRED FOR ALL NEW FOOTING EXTENSIONS AND ALL NEW UNDERSLAB UTILITES INCLUDING ELECTRICAL, PLUMBING, AND ALL SITE UTILITIES.
21. ALL EXISTING SIGNAGE TO BE SALVAGED AND HANDED OVER TO DISTRICT FOR REUSE. DIPOSE IF NOT NEEDED BY DISTRICT.
22. NOTE THAT ALL DEMOLITION SHALL COMPLY WITH ARTICLE 33 CFC.

LEGEND - DEMOLITION

- LIMITS OF DEMO WORK
- (E) BUILDINGS (NO WORK TO BE DONE)
- EXTENT OF DEMO WORK (DEMOLISH ALL HARDSCAPE AND LANDSCAPING AND SALVAGE ALL SITE FURNISHINGS AND SIGNAGE AS POSSIBLE) SEE PLAN FOR FURTHER INFORMATION
- (E) BUILDING TO BE DEMOLISHED
- (E) BASEMENT

DEMO SITE PLAN | 1/16" = 1'-0" | 1

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
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APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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ARCHITECT STAMP

LICENSED ARCHITECT ALAN GLEN KROEGER C-22474 REN. 10-31-25 STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
ENLARGED DEMOLITION SITE PLAN

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-012

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:18 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt
ISSUED: SEPTEMBER 9, 2025

BUILDING INFO NOTES

BLDG ID	BUILDING NAME	DSA A#
1	(E) CHILD DEVELOPMENT CENTER	03-102944, 03-101128
2	(E) FAMILY AND CONSUMER EDUCATION	A-30573, 03-122405, 03-124642
3	(E) HUMANITIES	A-11900, 03-121376, 03-122210, 03-122405
4	(E) GET TRANSIT CENTER	02-111473
5	(E) NORMAN LEVAN CENTER	03-111784
6	(E) BUSINESS	03-118883
7	(E) ADMINISTRATION	02-112107, 03-103434, 03-118883
8	(E) CENTER FOR STUDENT SERVICES	A-11900, A-32986, A-58135, 02-112107, 03-103559, 03-118340, 03-115792, 03-115628
9	(E) PERFORMING ARTS CENTER	02-111686, 03-115372
10	(E) SCIENCE / ENGINEERING	A-11900, A-58135, A-39682, 03-115937, 03-114811, 03-120006, 03-123712
11	(E) GENERAL SCIENCE	A-11714
12	(E) APPLIED SCIENCE & TECHNOLOGY	A-12796, 03-107529, 03-121924, 03-122405
13	(E) HORTICULTURE LAB	03-122237
14	(E) AGRICULTURE	03-122075
15	(E) STEM	A-13466, 03-116091
16	(E) MATH / SCIENCE	A-20984, A-58135, A-59527, 03-108011, 03-115628, 03-121655, 03-120500, 03-122596
17	(E) MEMORIAL STADIUM	A-11440, A-67256, 03-119704, 03-116088, 03-107100, 03-106620, 03-120073, 03-116379, 03-118381, 03-1222905
18	(E) COMBINED GYM & FIELD HOUSE	03-120152
19	(E) GYMNASIUM	A-11714, 03-115566
20	(E) POOL BLDG - DEMO UNDER SEPARATE PERMIT	
21	(E) WARM-UP POOL	A-11714
22	(E) POOL	03-104296
23	(E) FORUM	A-27967
24	(E) LANGUAGE ARTS - SHAFER HALL	A-12796, A-58135, 03-113971, 03-115628, 03-122405
25	(E) CAMPUS CENTER	02-112107, 03-122168, 03-118883
26	(E) BUSINESS SERVICES	03-104504, 03-121587
27	(E) LEVINSON HALL	03-122124
28	(E) MAINTENENCE AND OPERATIONS	03-116132
29	(E) BASEBALL FIELD	03-111011, 03-100486

SITE PLAN GENERAL NOTES

1. ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T.
2. ALL LANDSCAPE EDGES ALONG ALL NEW OR EXISTING WALK SURFACES IN P.O.T. SHALL BE PER CIVIL DRAWINGS
3. FOR GRATES OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T., THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
4. SEE PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS FOR UTILITIES.

LEGEND - SITE PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- (E) BUILDING
- PROJECT BUILDING
- (N) CONCRETE PAVING PER CIVIL DRAWINGS
  - EXPANSION JOINT PER CIVIL DRAWINGS
  - CONTROL JOINT PER CIVIL DRAWINGS
- (N) COLORED CONCRETE PAVING PER CIVIL DRAWINGS. MATCH (E) COLORED CONCRETE PAVING.
  - EXPANSION JOINT PER CIVIL DRAWINGS
  - CONTROL JOINT PER CIVIL DRAWINGS
- (N) GRAVEL
- (N) ARTIFICIAL TURF
- (N) FENCE LINE
- (E) FENCE LINE
- FH (E) FIRE HYDRANT
- FDC (E) FIRE DEPARTMENT CONNECTION

AGENCY APPROVAL DSA# 03-124689

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C-22474
REN. 10-31-25
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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
OVERALL SITE PLAN

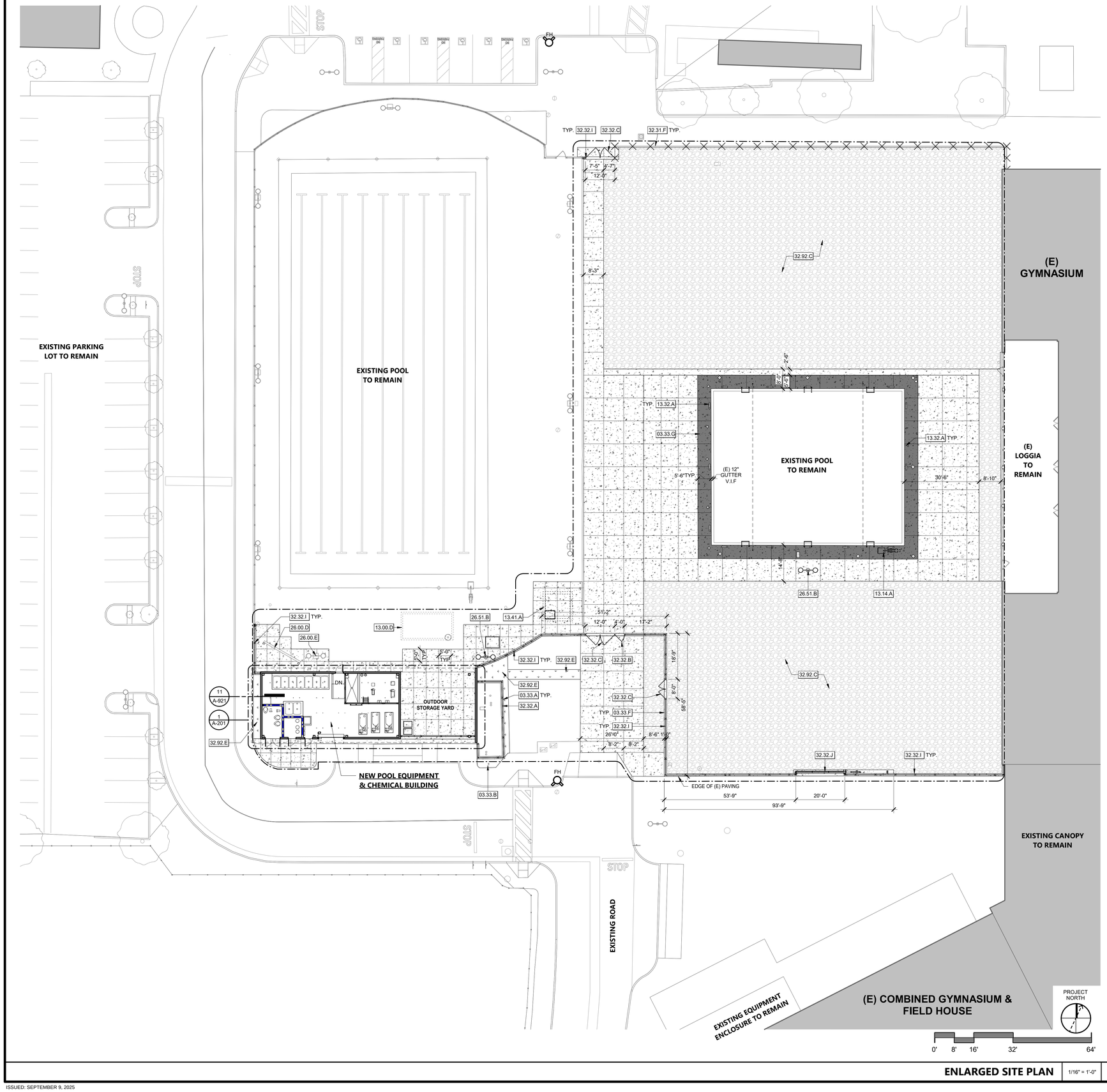
DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-101

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:25 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt
ISSUED: SEPTEMBER 9, 2025



KEYNOTES

03.33.A	CONCRETE CURB. PROVIDE GROUT CLEANED FINISH AT ALL EXPOSED CURBS.
03.33.B	CONCRETE FLATWORK. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
03.33.F	CONCRETE MOW STRIP. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
03.33.G	COLORED CONCRETE PANEL AROUND (E) POOL GUTTER AND (E) POOL. MATCH COLOR TO (E) LAP POOL. SEE AQUATICS DRAWINGS FOR ADDITIONAL POOL DECK REQUIREMENTS.
13.00.D	(E) SURGE TANK BELOW DECK TO REMAIN, PROTECT IN PLACE.
13.14.A	REINSTALL (E) POOL LIFT PER MANUFACTURER'S INSTRUCTIONS.
13.32.A	POOL DEPTH TILE MARKERS AND POOL DECK TILE SIGNAGE. SEE AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION.
13.41.A	SURGE TANK FOR WARM-UP POOL. SEE AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION.
26.00.D	(E) SCOREBOARD TO REMAIN, PROTECT IN PLACE.
26.00.E	(E) LIGHT STANDARDS TO REMAIN, PROTECT IN PLACE.
26.51.B	EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
32.31.F	TEMPORARY CONSTRUCTION FENCING
32.32.A	6'-0" TALL STEEL PICKET FENCE, MATCH EXISTING FENCE. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
32.32.B	SINGLE WIDE GATE, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
32.32.C	DOUBLE WIDE GATE, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
32.32.I	8'-0" TALL STEEL PICKET FENCE, MATCH EXISTING FENCE. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
32.32.J	MANUAL ROLLING GATE. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
32.92.C	3" LAYER OF TYPE 1 COMPACTED BASE GRAVEL OVER SOIL. PROVIDE 90% COMPACTION OF SOIL PRIOR TO PLACING GRAVEL.
32.92.E	ARTIFICIAL TURF, MATCH (E) ARTIFICIAL TURF AND/OR REINSTALL (E) ARTIFICIAL TURF.

SITE PLAN GENERAL NOTES

1. ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T.
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4. SEE PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS FOR UTILITIES.

LEGEND - SITE PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- (E) BUILDING
- PROJECT BUILDING
- (N) CONCRETE PAVING PER CIVIL DRAWINGS
  - EXPANSION JOINT PER CIVIL DRAWINGS
  - CONTROL JOINT PER CIVIL DRAWINGS
- (N) COLORED CONCRETE PAVING PER CIVIL DRAWINGS. MATCH (E) COLORED CONCRETE PAVING.
  - EXPANSION JOINT PER CIVIL DRAWINGS
  - CONTROL JOINT PER CIVIL DRAWINGS
- (N) GRAVEL
- (N) ARTIFICIAL TURF
- (N) FENCE LINE
- (E) FENCE LINE
- FH — (E) FIRE HYDRANT
- FDC — (E) FIRE DEPARTMENT CONNECTION

AGENCY APPROVAL DSA# 03-124689

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DATE: 08/18/2025

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STATE OF CALIFORNIA

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
ENLARGED SITE PLAN

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-102

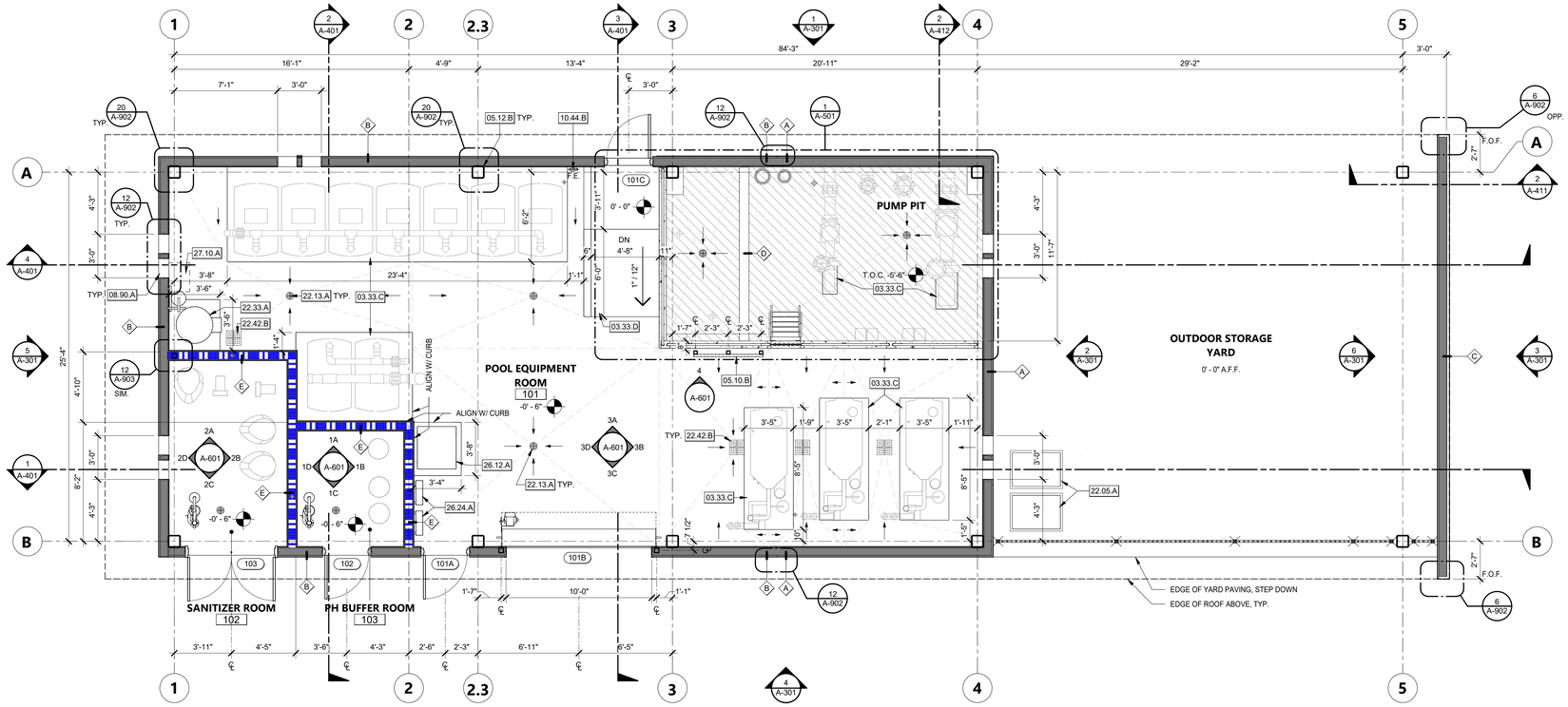
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:08 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

ENLARGED SITE PLAN | 1/16" = 1'-0" | 1



KEYNOTES

03.33.C	CONCRETE EQUIPMENT PAD. SEE STRUCTURAL, ELECTRICAL, PLUMBING, AND AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION.
03.33.D	CAST-IN-PLACE CONCRETE RAMP WITH 6" CONCRETE CURB
05.10.B	EQUIPMENT MOUNTING FRAMING. SEE STRUCTURAL FOR MORE INFO.
05.12.B	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
08.90.A	LOUVER.
10.44.B	SURFACE MOUNTED FIRE EXTINGUISHER.
22.05.A	YARD BOX FOR PLUMBING METERS/VALVES. SEE PLUMBING FOR MORE INFO.
22.13.A	FLOOR DRAIN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
22.33.A	WATER HEATER. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.42.B	FLOOR SINK
26.12.A	TRANSFORMER. SEE ELECTRICAL DRAWINGS FOR MORE INFO.
26.24.A	ELECTRICAL PANELBOARD. SEE ELECTRICAL FOR MORE INFO.
27.10.A	DATA RACK. SEE ELECTRICAL FOR MORE INFO.

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.
2. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS OR OF MISSING DIMENSIONS FOR CORRECTION BEFORE PROCEEDING WITH WORK.
3. ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT.
4. ALL EXPOSED PIPES, STRUCTURE, AND CONDUIT TO BE PAINTED WITH EPOXY PAINT.
5. FOR WALL TYPES SEE SHEET A-901. ALL WALLS TO BE FULL HEIGHT UNLESS OTHERWISE NOTED.
6. ALL THROUGH PENETRATION OF FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH 2022 CBC SECTION 714.4.1.
7. AREA(S) WITH FLOOR DRAINS SHALL HAVE 1.9% MAX. SLOPE IN ALL DIRECTIONS, UNLESS OTHERWISE NOTED.
8. FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS.

LEGEND - FLOOR PLAN

- ROOM NAME / ROOM NUMBER / ROOM AREA
- WALL TYPE TAG SEE SHEET A-901
- DOOR TYPE TAG
- FIRE EXTINGUISHER PER DETAIL 6/A-921
- METAL STUD WALL
- 1HR RATED WALL
- CONCRETE WALL
- SLAB DEPRESSION

POOL EQUIPMENT BUILDING - FLOOR PLAN | 1/4" = 1'-0" | 1

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

FLOOR PLAN

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.

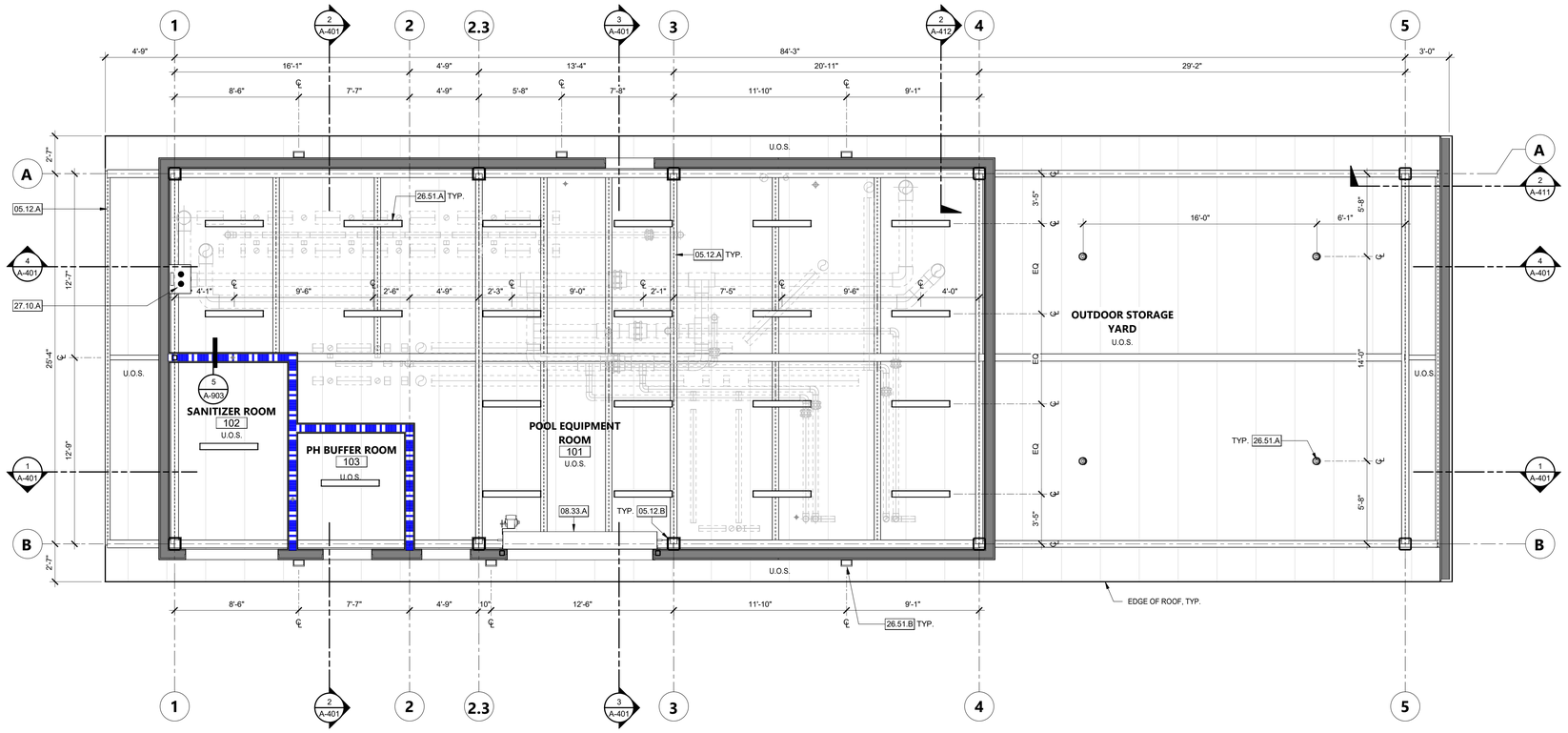
A-201

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



PROJECT NORTH

KEYNOTES

05.12.A	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL ROOF BEAM. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.12.B	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
08.33.A	MOTOTRIZED OVERHEAD COILING DOOR. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
26.51.A	LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26.51.B	EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
27.10.A	DATA RACK. SEE ELECTRICAL FOR MORE INFO.

LEGEND - CEILING GENERAL NOTES

1. ALL EXPOSED DUCTS, PIPES, AND CONDUIT TO BE PAINTED WITH EPOXY PAINT.
2. ALL EXPOSED STEEL STRUCTURE AND DECKING TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT.
3. SEE PLUMBING, ELECTRICAL DWGS. FOR ALL FIXTURES AND EQUIPMENT.
4. LOCATIONS FOR DUCTS, PIPES, AND CONDUITS TO BE COORDINATED WITH PROPOSED CEILINGS BEFORE INSTALLATION. CONTRACTORS TO IDENTIFY AND RESOLVE ANY CONFLICT BETWEEN MULTIPLE TRADES AS NEED.
5. COORDINATE LOCATIONS FOR CEILING MOUNTED FIXTURES BEFORE INSTALLATION WITH THE ARCHITECT.

LEGEND - CEILING

U.O.S.	EXPOSED UNDERSIDE OF STRUCTURE: PAINT ALL EXPOSED STRUCTURE AND DECKING WITH EPOXY PAINT.

NOTE: SYMBOLS SHOWN FOR LOCATION PURPOSES ONLY. SEE ELECTRICAL DRAWINGS FOR DETAILED INFORMATION

CEILING PLAN | 1/4" = 1'-0" | 1

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

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ARCHITECT STAMP

LICENSED ARCHITECT
ALAN GLEN KROEGER
C-22474
REN. 10-31-25
STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

REFLECTED CEILING PLAN

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.

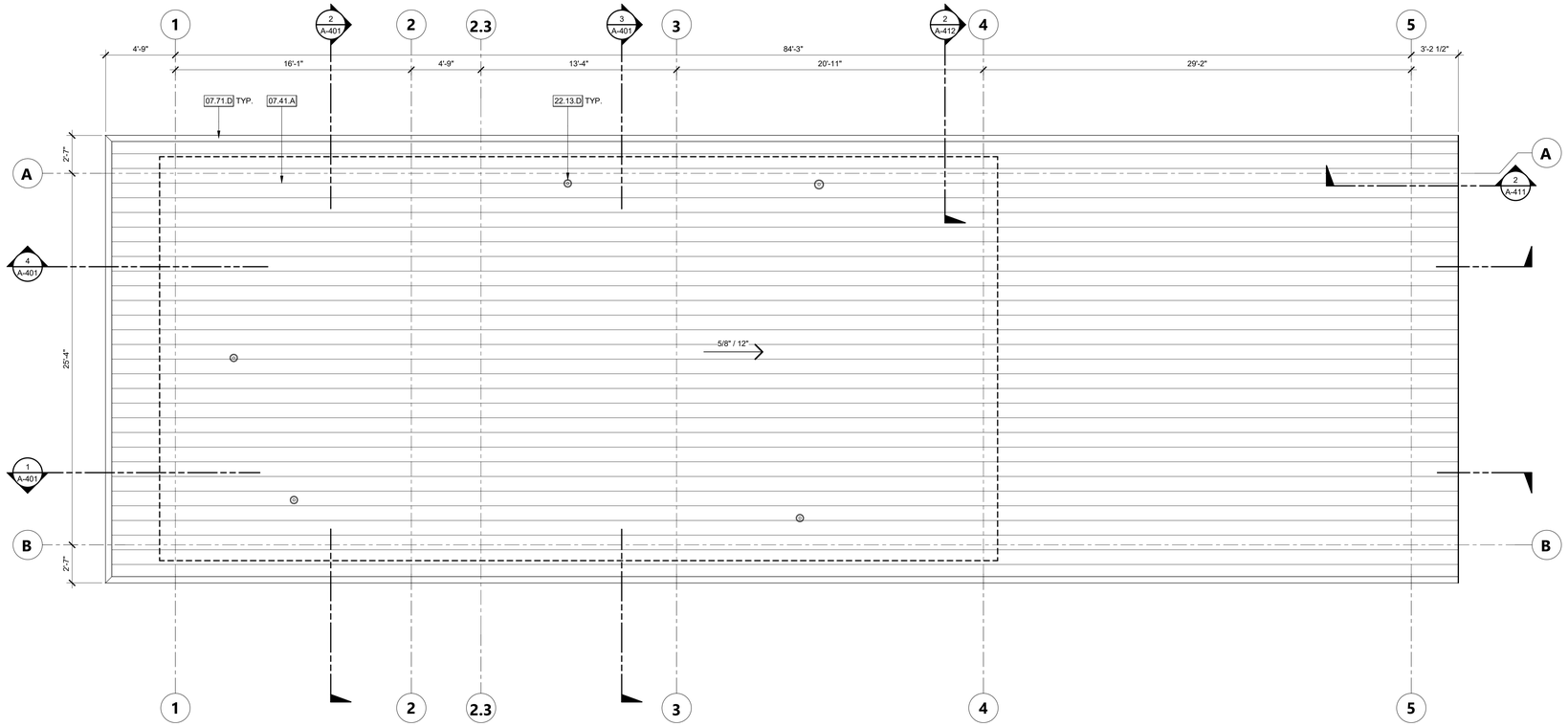
A-211

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:29 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



PROJECT NORTH

KEYNOTES

07.41.A	STANDING-SEAM METAL ROOF.
07.71.D	BONDERIZED PAINTED METAL FASCIA.
22.13.D	ROOF VENT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF GENERAL NOTES

1. NOT USED.

LEGEND - ROOF SYMBOLS

T.O.R. T.O.S.	TOP OF ROOF TOP OF STEEL; UNDERSIDE OF DECK (U.N.O.)
	STANDING SEAM MTL. ROOFING OVER 1/2" CDX PLYWOOD DECKING OVER MTL. DECKING PER STRUCTURAL DWGS.
- - - - -	WALL LINE BELOW

ALL ROOFING SHALL BE CLASS "A"

ROOF PLAN | 1/4" = 1'-0" | 1

AGENCY APPROVAL DSA# 03-124689

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DATE: 08/18/2025

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
ROOF PLAN

DRAWN BY: JOB NUMBER: 23024.02

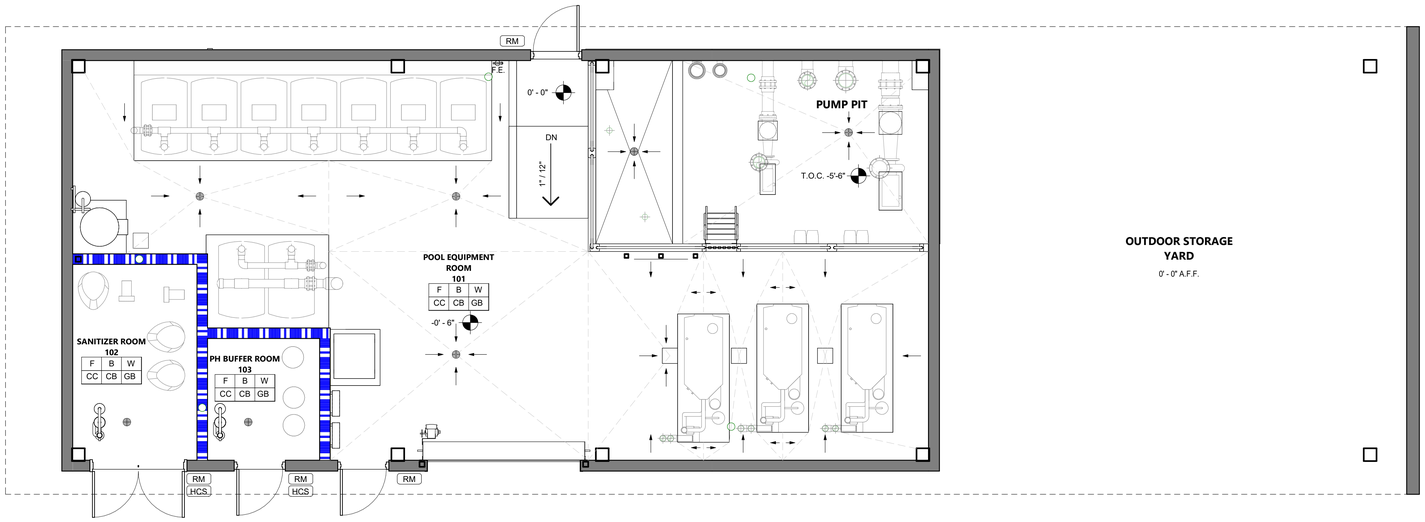
SHEET NO.
A-221

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:29 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



FINISH PLAN | 1/4" = 1'-0" | 1

FLOOR FINISHES (F)

(F)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	COLOR	SPECIFICATION SECTION	REMARKS
CC	CONCRETE FLOOR SLAB	PER SPECIFICATIONS	N/A	N/A	03 30 00	CRYSTALINE WATERPROOFING ADDITIVE IN CONCRETE MIX PER SPEC SECTION 03 05 15

BASE FINISHES (B)

(B)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	COLOR	SPECIFICATION SECTION	REMARKS
CB	CONCRETE CURB	PER SPECIFICATIONS	N/A	N/A	03 30 00	CRYSTALINE WATERPROOFING ADDITIVE IN CONCRETE MIX PER SPEC SECTION 03 05 15

WALL FINISHES (W)

(W)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	PAINT TYPE	SPECIFICATION SECTION	REMARKS
GB	WATER AND MOLD RESISTANT FIBERGLASS MAT GYPSUM WALL BOARD	PER SPECIFICATIONS	5/8" TYPE X	P1		

CEILING FINISHES (C)

(C)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	PAINT TYPE	SPECIFICATION SECTION	REMARK
UOS	EXPOSED STEEL STRUCTURE, UNDERSIDE OF ROOFDECK, EXPOSED PIPES AND CONDUITS	N/A	N/A	P2	N/A	

PAINT (P)

(P)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	COLOR	SPECIFICATION SECTION	REMARK
P-1	CARBOLINE SANTILE 120	DUNN EDWARDS	2K EPOXY	N/A	09 90 00	PRIME COAT
P-1	CARBOLINE SANTILE 555 VOC	DUNN EDWARDS	2K EPOXY	SELECTED BY ARCHITECT	09 90 00	INTERMEDIATE COAT AND TOPCOAT
P-2	CARBOLINE GALSEAL WB	DUNN EDWARDS	2K EPOXY	SELECTED BY ARCHITECT	09 90 00	PRIME COAT
P-2	CARBOLINE CARBOTHANE 133 MC	DUNN EDWARDS	2K EPOXY	N/A	09 90 00	INTERMEDIATE COAT AND TOPCOAT

SIGNAGE KEY

RM ROOM NAME / NUMBER SIGN, SEE DETAILS 2 / A-921

HCS HAZARD SIGN, SEE DETAIL 7 / A-921 5 / A-921

SIGNAGE GENERAL NOTES

1. NOT USED.

FINISHES GENERAL NOTES

1. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING MATERIAL DIMENSIONS AT EACH PARTITION IN THE FIELD AS RELATED TO THE OVERALL FINAL PARTITION DIMENSION, PRIOR TO DOOR AND WINDOW SUBMITTALS.
2. FOR MATERIAL FINISHES AND LOCATION OF FINISHES, REFER TO FINISH PLAN, INTERIOR ELEVATIONS AND FINISH SCHEDULE.
3. SPECIFICATIONS SHALL SUPERCEDE DIMENSIONS IN THIS DETAIL AS NECESSARY; CONTRACTOR TO VERIFY.
4. ALL EXPOSED PIPES, DUCTS, CABLE TRAY, CONDUITS ETC. TO BE PAINTED.
5. CONTRACTOR TO PROVIDE PAINT MOCKS ON SITE IN ADDITION TO BRUSH OUTS PROVIDES AS PART OF SUBMITTAL.
6. COLORS FOR SWITCHPLATES, COVERPLATES AND RECEPTACLES TO BE SELECTED BY THE ARCHITECT.
7. ALL FINISHES ARE TO CLASS A RATED FINISHES.
8. PAINT BOTH SIDES OF CURB UNDER RATED WALLS WITH P1.

PROJECT NORTH

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
802 EAST COTA STREET, SUITE A
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ARCHITECT STAMP

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C-22474
REN. 10-31-25
STATE OF CALIFORNIA

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
FINISH PLAN

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-251

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:31 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

21.12.14 - 00000

SOUTH CORNER PERSPECTIVE VIEW | N.T.S. | **1**

21.12.14 - 00000

NORTH CORNER PERSPECTIVE VIEW | N.T.S. | **2**

FINISH LIST

FINISH KEY	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
PAINT				
2	BONDERIZED PAINTED FASCIA	TERRACOTTA REDISH	09 90 00	
3	METAL COPING, DOORS, FRAMES EXPOSED STEEL,& ROOF DECK	GRAY (TBD)	09 90 00	
ROOF				
M2	STANDING SEAM METAL ROOF	TERRACOTTA REDISH	N/A	
WALL				
1	CEMENT PLASTER	-	N/A	
M1	CORRUGATED METAL WALL PANEL	GALVALUME	N/A	
M3	STAINLESS STEEL WIRE MESH	-	N/A	

AGENCY APPROVAL DSA# 03-124689

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196

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

3D VIEWS - EXTERIOR

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.

A-252

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:32 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

21.12.14 - 00000

WEST CORNER PERSPECTIVE VIEW | N.T.S. | **3**

21.12.14 - 00000

EAST CORNER PERSPECTIVE VIEW | N.T.S. | **4**

FINISH LIST

FINISH KEY	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
PAINT				
2	BONDERIZED PAINTED FASCIA	TERRACOTTA REDISH	09 90 00	
3	METAL COPING, DOORS, FRAMES EXPOSED STEEL & ROOF DECK	GRAY (TBD)	09 90 00	
ROOF				
M2	STANDING SEAM METAL ROOF	TERRACOTTA REDISH	N/A	
WALL				
1	CEMENT PLASTER	-	N/A	
M1	CORRUGATED METAL WALL PANEL	GALVALUME	N/A	
M3	STAINLESS STEEL WIRE MESH	-	N/A	

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
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DATE: 08/18/2025

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ARCHITECT STAMP | CONSULTANT STAMP

LICENSED ARCHITECT
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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
3D VIEWS - EXTERIOR

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-253

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:33 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

21.12.14 - 00000

INTERIOR PERSPECTIVE VIEW | N.T.S. | **1**

21.12.14 - 00000

INTERIOR PERSPECTIVE VIEW | N.T.S. | **2**

FINISH LIST

FINISH KEY	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
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1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

3D VIEWS - INTERIOR

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.

A-254

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:34 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

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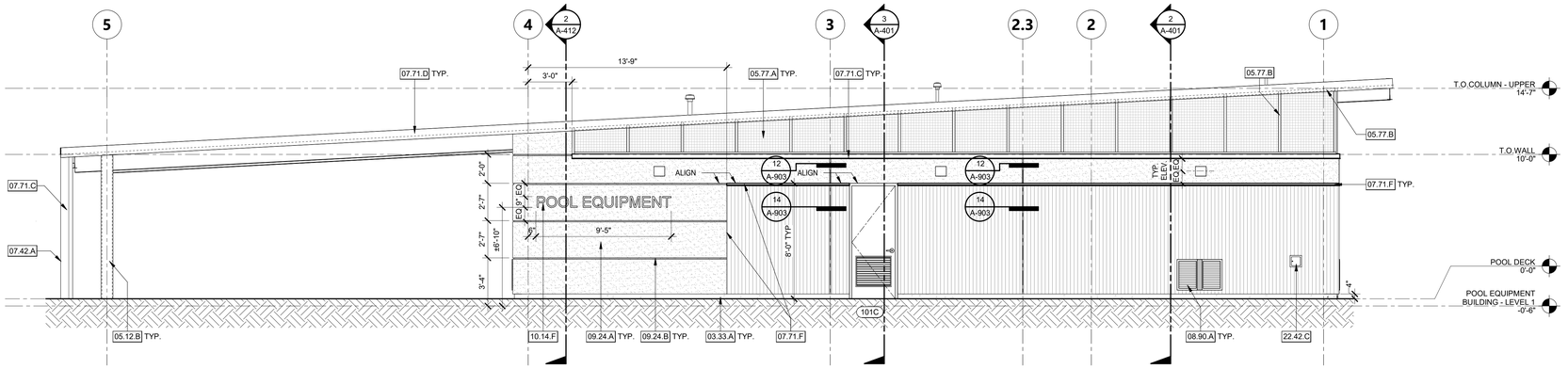
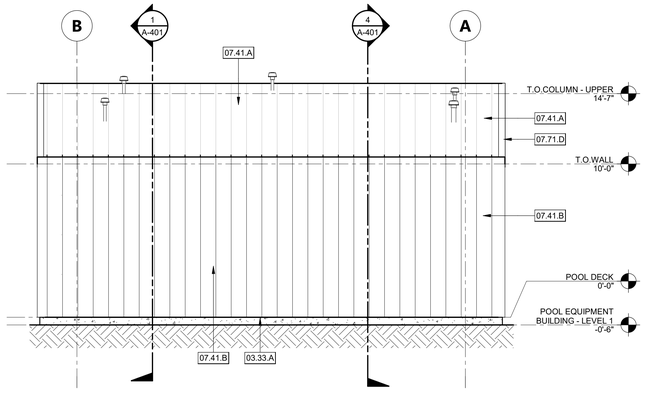
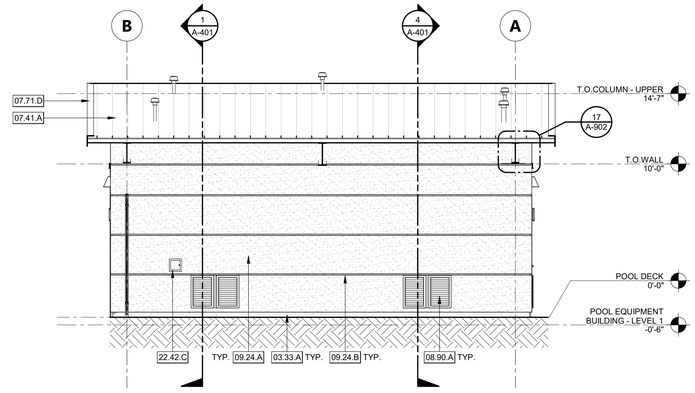


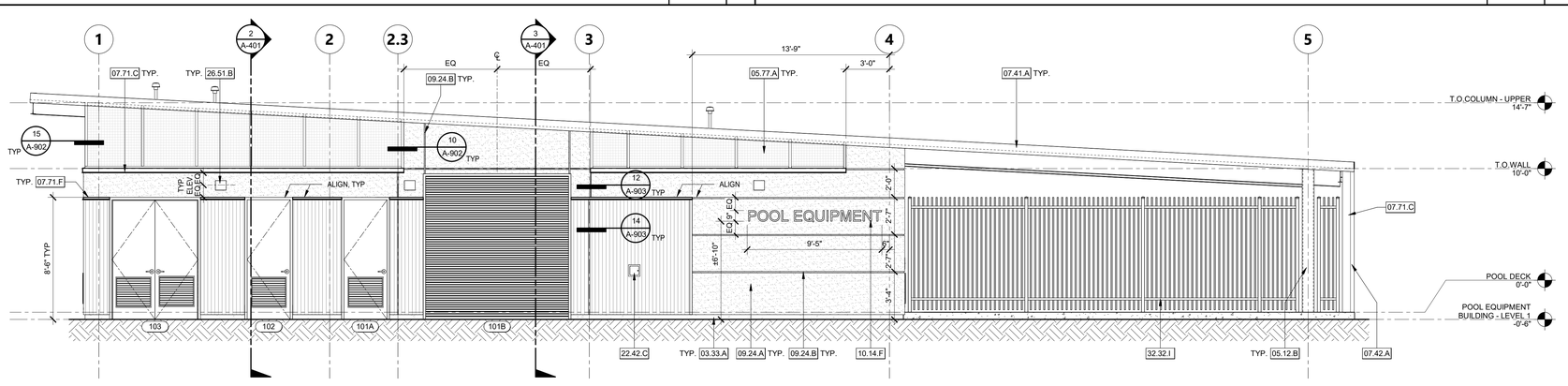
EXTERIOR ELEVATION - NORTH 1/4" = 1'-0" **1**



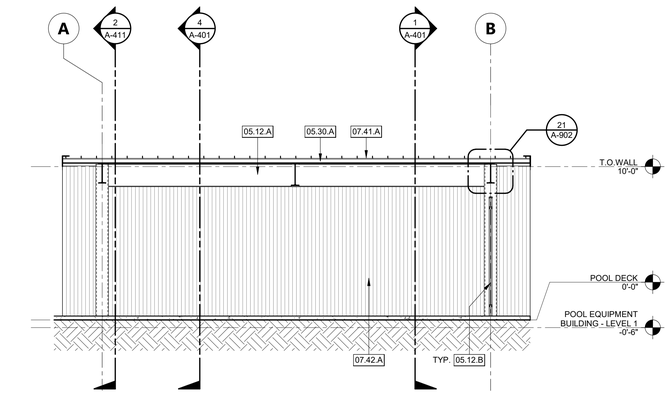
EXTERIOR ELEVATION - EAST A 1/4" = 1'-0" **3**



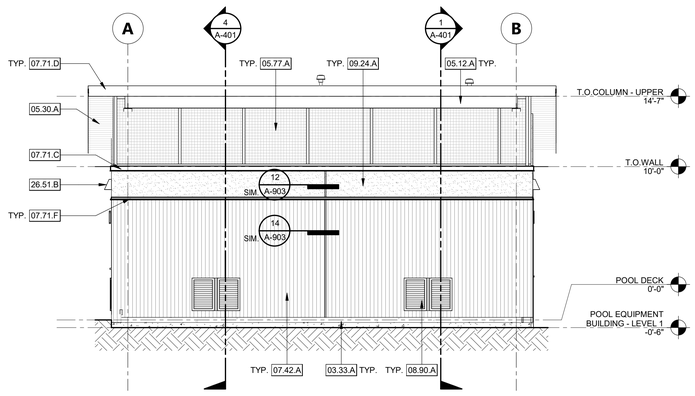
EXTERIOR ELEVATION - EAST B 1/4" = 1'-0" **2**



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



EXTERIOR ELEVATION - WEST A 1/4" = 1'-0" **6**



EXTERIOR ELEVATION - WEST B 1/4" = 1'-0" **5**

KEYNOTES

03.33.A	CONCRETE CURB. PROVIDE GROUT CLEANED FINISH AT ALL EXPOSED CURBS.
05.12.A	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL ROOF BEAM. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.12.B	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.30.A	METAL DECKING UNDERSIDE PAINTED WITH EPOXY PAINT. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.77.A	STAINLESS STEEL WIRE MESH PANELS.
05.77.B	CONTINUOUS 2" WIDE X 1/8" THICK GALVANIZED AND PAINTED FLAT STEEL PLATE OVER S.S. WIRE MESH. SCREW FASTENED TO 2" X 2" GALVANIZED AND PAINTED TUBE STEEL FRAME BEHIND S.S. WIRE MESH WITH STAINLESS STEEL SHEET METAL SCREW AT 8" O.C VERT. & HORZ.
07.41.A	STANDING-SEAM METAL ROOF.
07.41.B	STANDING-SEAM METAL ROOFING AT END WALL.
07.42.A	PAINTED GALVALUME CORRUGATED METAL WALL PANELS.
07.71.C	BONDERIZED PAINTED METAL COPING FLASHING.
07.71.D	BONDERIZED PAINTED METAL FASCIA.
07.71.F	PAINTED GALVALUME FLASHING AT TOP OF CORRUGATED METAL WALL PANELS, TYP. COLOR TO MATCH CORRUGATED PANELS.
08.90.A	LOUVER.
09.24.A	PORTLAND CEMENT PLASTER, PAINTED, TYP.
09.24.B	V-SHAPED PLASTER CONTROL JOINT.
10.14.F	DIMENSIONAL ALUMINUM BLOCK LETTER SIGNAGE, PROVIDE BLOCKING AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
22.42.C	HOSE BIBB. SEE PLUMBING FOR MORE INFO.
26.51.B	EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
32.32.I	8'-0" TALL STEEL PICKET FENCE, MATCH EXISTING FENCE. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

EXTERIOR ELEVATION GENERAL NOTES

1. ALL EXPOSED STEEL AND ROOF DECKING TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT.
2. EXTERIOR CEMENT PLASTER TO BE PAINTED.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
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ARCHITECT STAMP

LICENSED ARCHITECT
ALAN GLEN KROEKER
C-22474
REN. 10-31-25
STATE OF CALIFORNIA

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
EXTERIOR ELEVATIONS

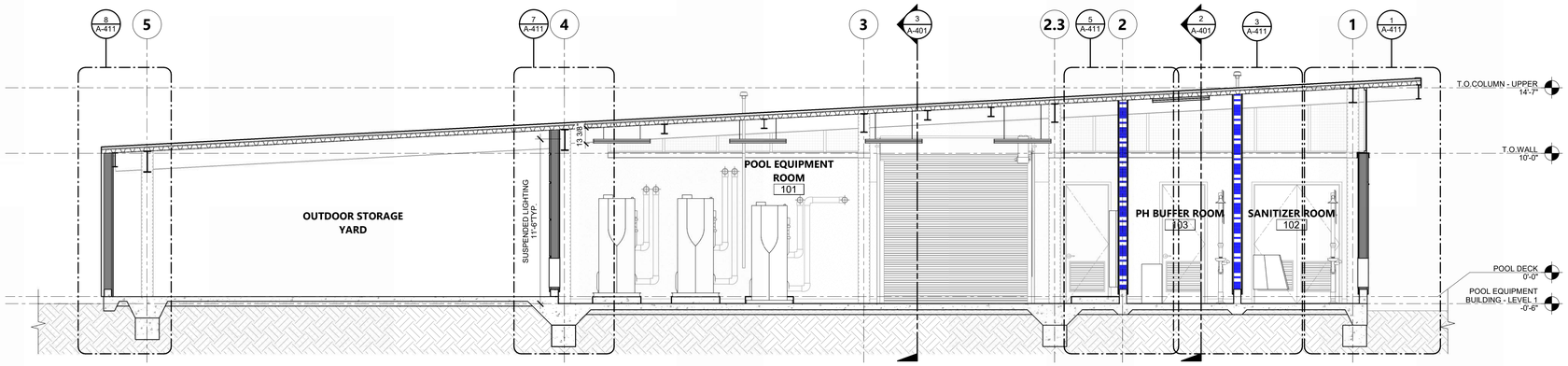
DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-301

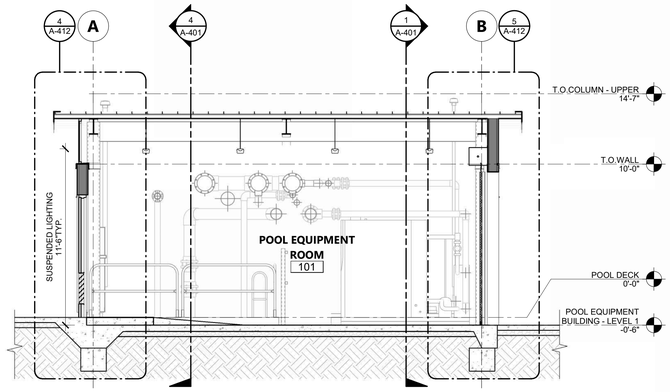
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

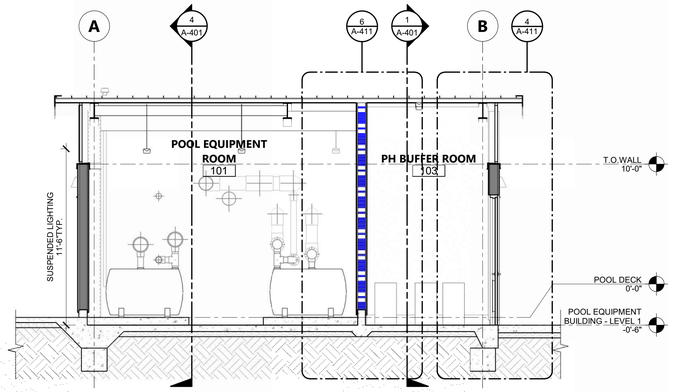
FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt
DATE PLOTTED: 3/6/2025 11:18:35 PM
ISSUED: SEPTEMBER 9, 2025



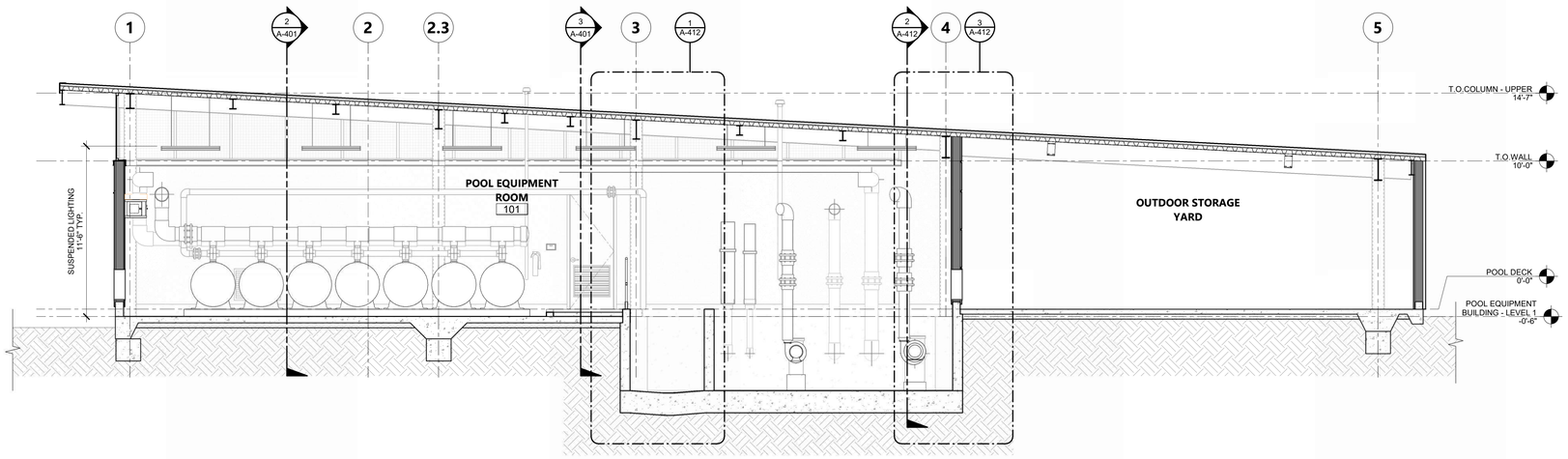
BUILDING SECTION 1/4" = 1'-0" **1**



BUILDING SECTION 1/4" = 1'-0" **3**



BUILDING SECTION 1/4" = 1'-0" **2**



BUILDING SECTION 1/4" = 1'-0" **4**

KEYNOTES

LEGEND - SECTIONS GENERAL NOTES

1. NOT USED.

AGENCY APPROVAL DSA# 03-124689

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KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
SECTIONS

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-401

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt
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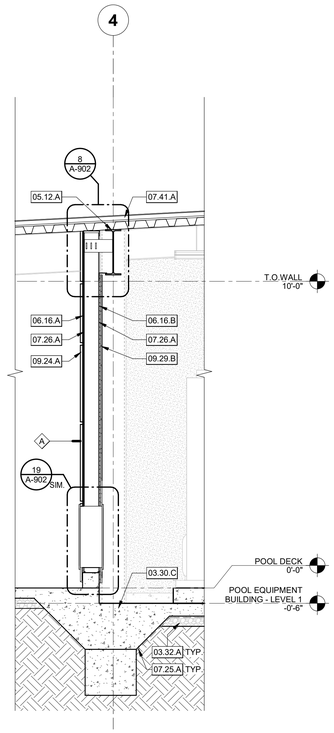
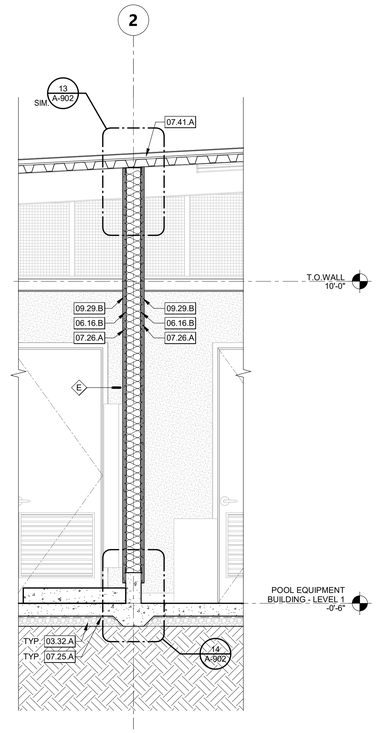
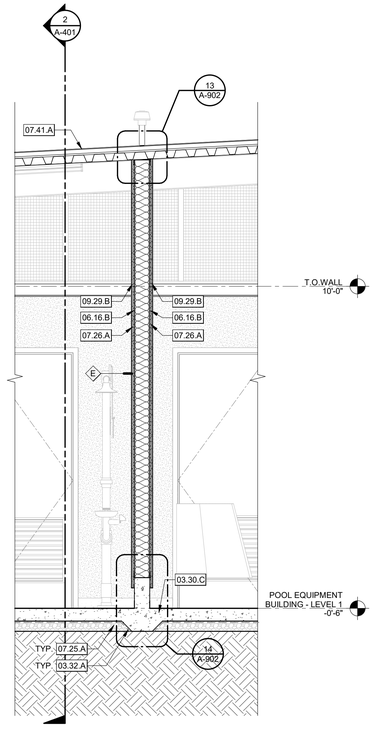


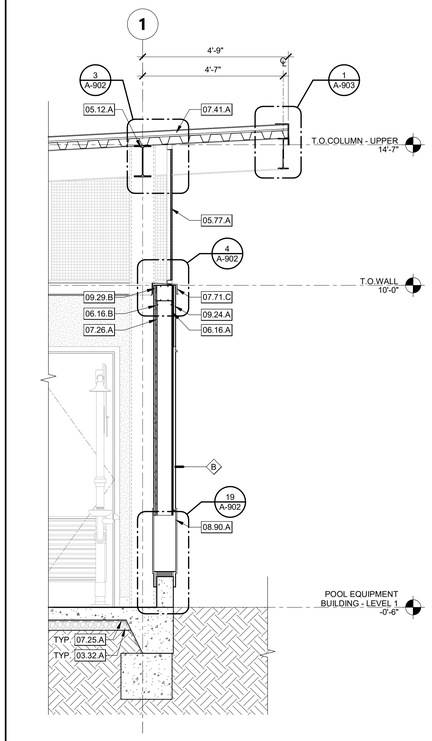
WALL SECTION 1/2" = 1'-0" **7**



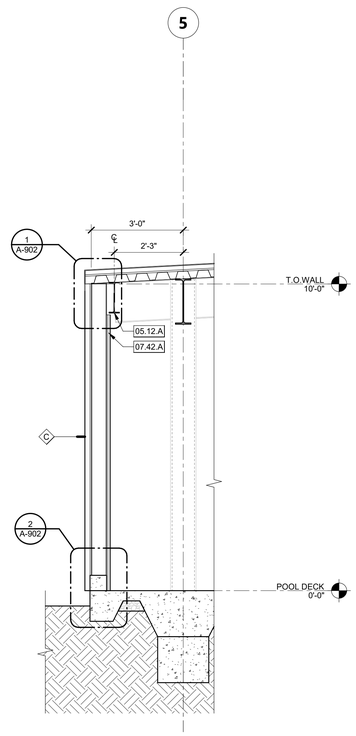
WALL SECTION 1/2" = 1'-0" **5**



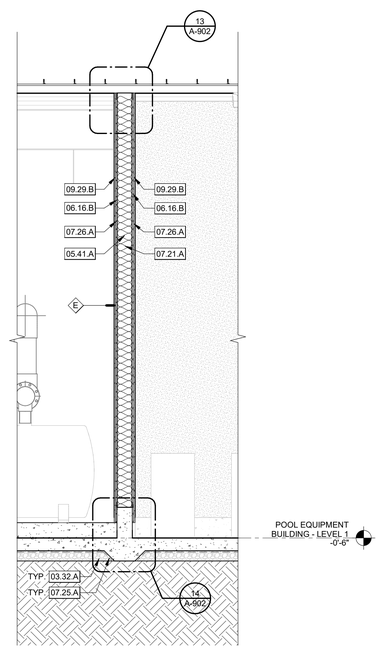
WALL SECTION 1/2" = 1'-0" **3**



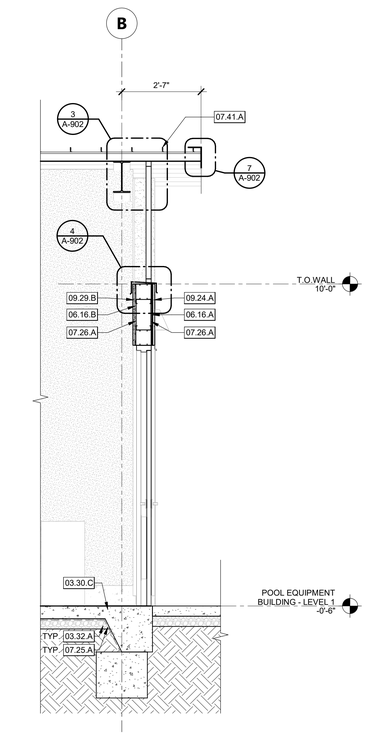
WALL SECTION 1/2" = 1'-0" **1**



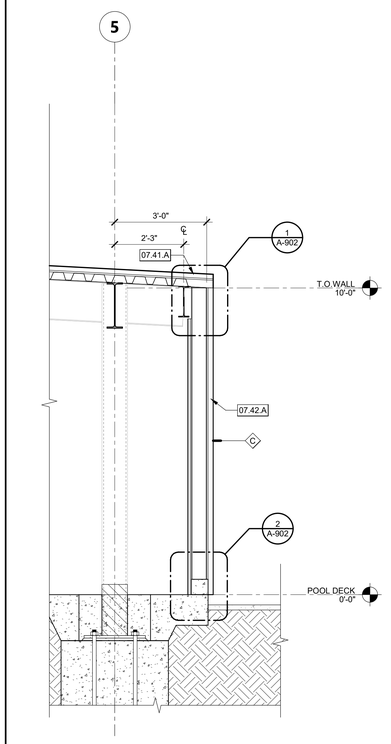
WALL SECTION 1/2" = 1'-0" **8**



WALL SECTION 1/2" = 1'-0" **6**



WALL SECTION 1/2" = 1'-0" **4**



WALL SECTION 1/2" = 1'-0" **2**

KEYNOTES

03.30.C	CONCRETE FLOOR SLAB. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
03.32.A	4" BASE UNDER SLAB ON GRADE.
05.12.A	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL ROOF BEAM. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.41.A	6" METAL STUD. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.77.A	STAINLESS STEEL WIRE MESH PANELS.
06.16.A	15/32" PLYWOOD SHEATHING PER STRUCTURAL DRAWINGS
06.16.B	1/2" FIBERGLASS MAT EXTERIOR GYPSUM SHEATHING.
07.21.A	UNFACED, GLASS-FIBER, BATT/BLANKET INSULATION. R-19 AT WALLS, R-30 AT ROOF/CEILING.
07.25.A	UNDERSLAB VAPOR BARRIER.
07.26.A	WEATHER BARRIER.
07.41.A	STANDING-SEAM METAL ROOF.
07.42.A	PAINTED GALVALUME CORRUGATED METAL WALL PANELS.
07.71.C	BONDERIZED PAINTED METAL COPING FLASHING.
08.90.A	LOUVER.
09.24.A	PORTLAND CEMENT PLASTER, PAINTED, TYP.
09.29.B	5/8" TYPE 'X' MOISTURE & MOLD RESISTANT GYPSUM BOARD, PAINTED

AGENCY APPROVAL DSA# 03-124689

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C-22474
REN. 10-31-25
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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
WALL SECTIONS

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-411

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt
DATE PLOTTED: 3/6/2025 11:18:39 PM
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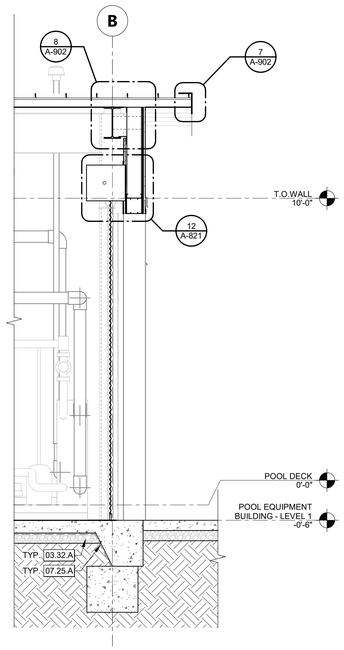
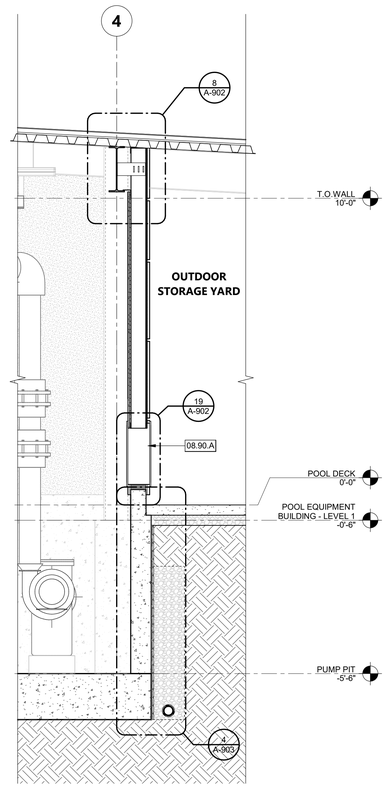
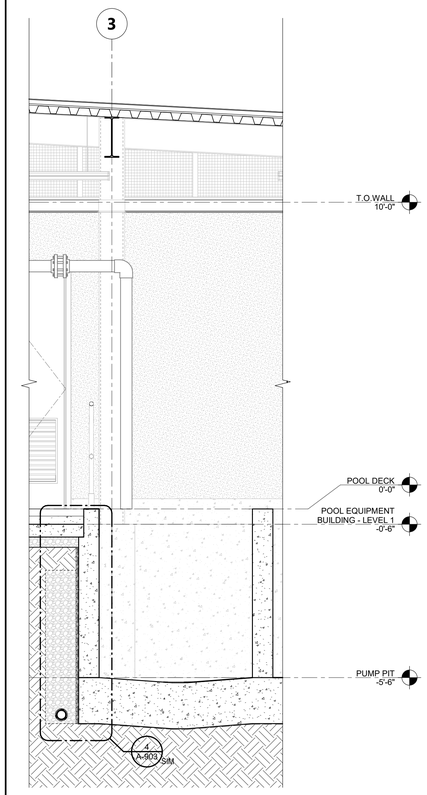


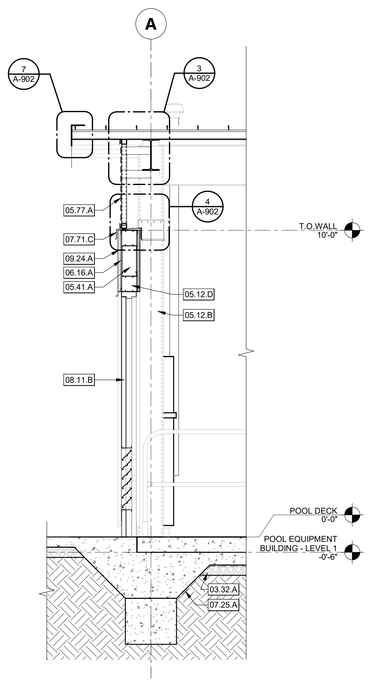
WALL SECTION 1/2" = 1'-0" **5**



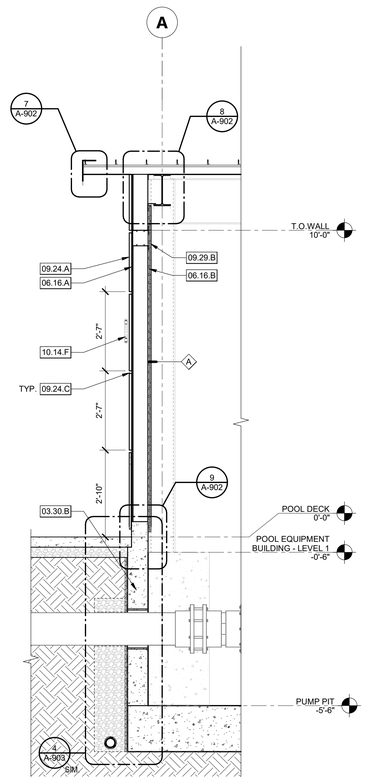
WALL SECTION 1/2" = 1'-0" **3**



WALL SECTION 1/2" = 1'-0" **1**



WALL SECTION 1/2" = 1'-0" **4**



WALL SECTION 1/2" = 1'-0" **2**

KEYNOTES

03.30.B	FOUNDATION WALL. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
03.32.A	4" BASE UNDER SLAB ON GRADE.
05.12.B	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.12.D	METAL STUD HEADER. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.41.A	6" METAL STUD. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.77.A	STAINLESS STEEL WIRE MESH PANELS.
06.16.A	15/32" PLYWOOD SHEATHING PER STRUCTURAL DRAWINGS
06.16.B	1/2" FIBERGLASS MAT EXTERIOR GYPSUM SHEATHING.
07.25.A	UNDERSLAB VAPOR BARRIER.
07.71.C	BONDERIZED PAINTED METAL COPING FLASHING.
08.11.B	HOLLOW METAL DOOR(S) WITH LOUVER(S) AND DOOR FRAME, PAINTED. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
08.90.A	LOUVER.
09.24.A	PORTLAND CEMENT PLASTER, PAINTED, TYP.
09.24.C	1" ALUMINUM REVEAL
09.29.B	5/8" TYPE 'X' MOISTURE & MOLD RESISTANT GYPSUM BOARD, PAINTED
10.14.F	DIMENSIONAL ALUMINUM BLOCK LETTER SIGNAGE, PROVIDE BLOCKING AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

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Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

WALL SECTIONS

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.

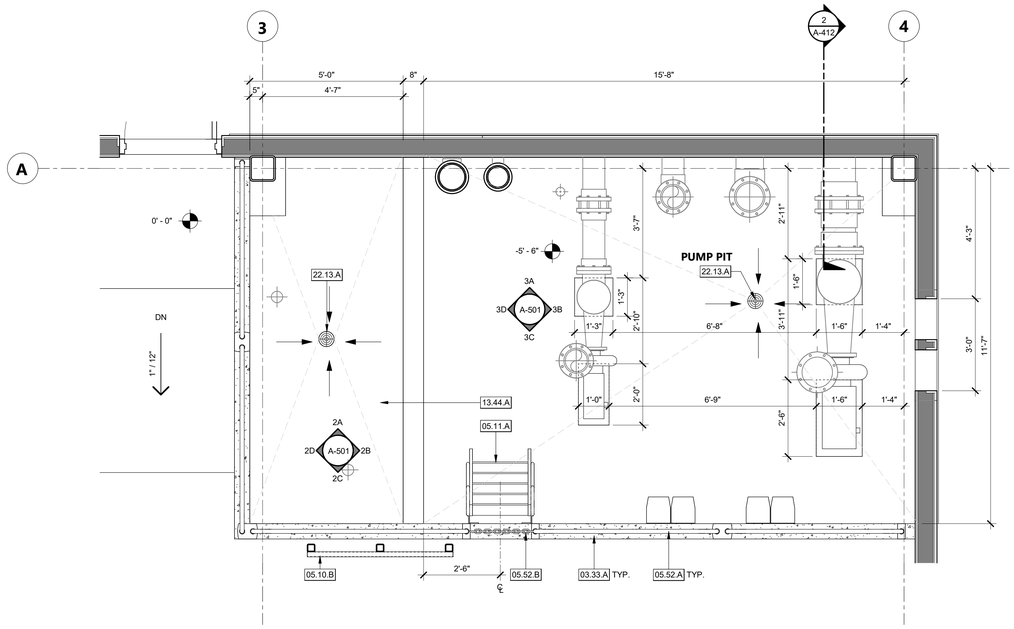
A-412

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

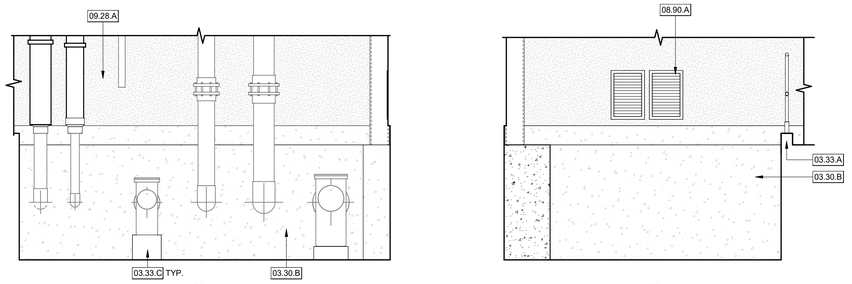
DATE PLOTTED: 3/6/2025 11:18:39 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



PROJECT NORTH

ENLARGED PLAN - POOL EQUIPMENT ROOM | 1/2" = 1'-0" | 1



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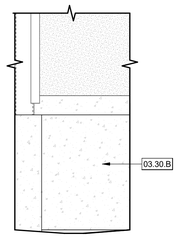

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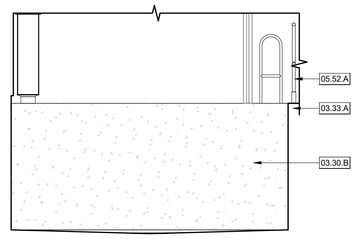

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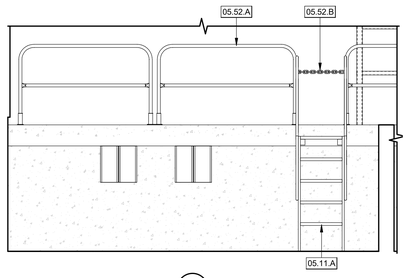

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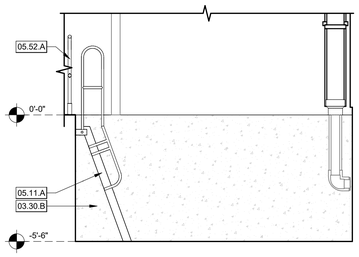

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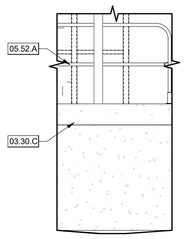

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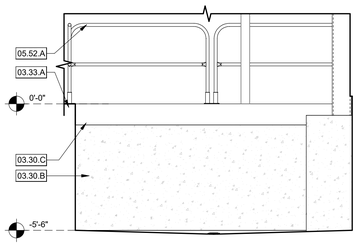

2D

PUMP PIT INTERIOR ELEVATIONS - 101 | 1/4" = 1'-0" | 3

CATCH BASIN INTERIOR ELEVATIONS - 101 | 1/4" = 1'-0" | 2

KEYNOTES

03.30.B	FOUNDATION WALL. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
03.30.C	CONCRETE FLOOR SLAB. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
03.33.A	CONCRETE CURB. PROVIDE GROUT CLEANED FINISH AT ALL EXPOSED CURBS.
03.33.C	CONCRETE EQUIPMENT PAD. SEE STRUCTURAL, ELECTRICAL, PLUMBING, AND AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION.
05.10.B	EQUIPMENT MOUNTING FRAMING. SEE STRUCTURAL FOR MORE INFO.
05.11.A	GALVANIZED STEEL SHIPS LADDER. SEE AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION.
05.52.A	FLOOR MOUNTED REMOVABLE PAINTED GALVANIZED SAFETY GUARDRAIL.
05.52.B	GALVANIZED SAFETY CHAIN.
08.90.A	LOUVER.
09.28.A	5/8" WATER AND MOLD RESISTANT FIBERGLASS GLASS MAT TYPE 'X' GYP. BD., PAINTED WITH EPOXY PAINT.
13.44.A	BACKWASH CATCH BASIN. SEE AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION.
22.13.A	FLOOR DRAIN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.
2. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS OR OF MISSING DIMENSIONS FOR CORRECTION BEFORE PROCEEDING WITH WORK.
3. ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT.
4. ALL EXPOSED PIPES, STRUCTURE, AND CONDUIT TO BE PAINTED WITH EPOXY PAINT.
5. FOR WALL TYPES SEE SHEET A-901. ALL WALLS TO BE FULL HEIGHT UNLESS OTHERWISE NOTED.
6. ALL THROUGH PENETRATION OF FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH 2022 CBC SECTION 714.4.1.
7. AREA(S) WITH FLOOR DRAINS SHALL HAVE 1.9% MAX. SLOPE IN ALL DIRECTIONS, UNLESS OTHERWISE NOTED.
8. FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS.

INTERIOR ELEVATION GENERAL NOTES

1. ALL STEEL TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT.
2. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL AND DATA OUTLETS. COORDINATE EXACT LOCATIONS WITH ARCHITECT AND ENGINEER BEFORE INSTALLATION.

LEGEND - FLOOR PLAN

- ROOM NAME / 101 / 150 SF — ROOM NAME, ROOM NUMBER, ROOM AREA
- A6 — WALL TYPE TAG SEE SHEET A-901
- 101AA — DOOR TYPE TAG
- F.E. — FIRE EXTINGUISHER PER DETAIL 6/A-921
- METAL STUD WALL
- 1HR RATED WALL
- CONCRETE WALL
- SLAB DEPRESSION

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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C-22474
REN. 10-31-25
STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
PLAN ENLARGMENTS

DRAWN BY: JOB NUMBER: 23024.02

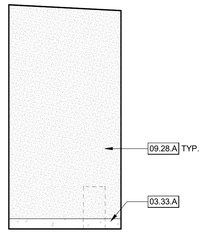
SHEET NO.
A-501

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:40 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



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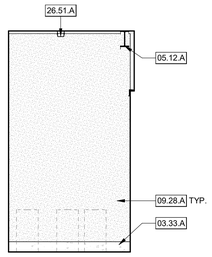

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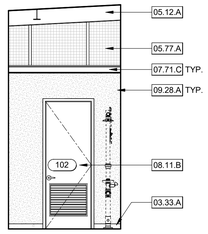

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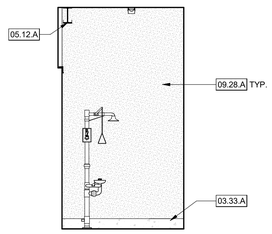

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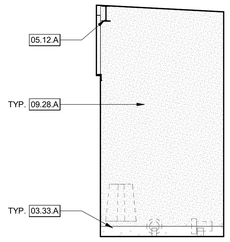
SANITIZER ROOM - 102 — 1/4" = 1'-0" — 1



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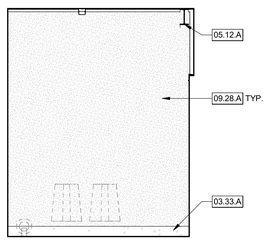

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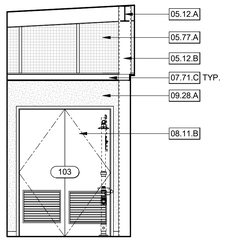

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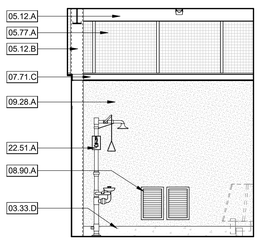
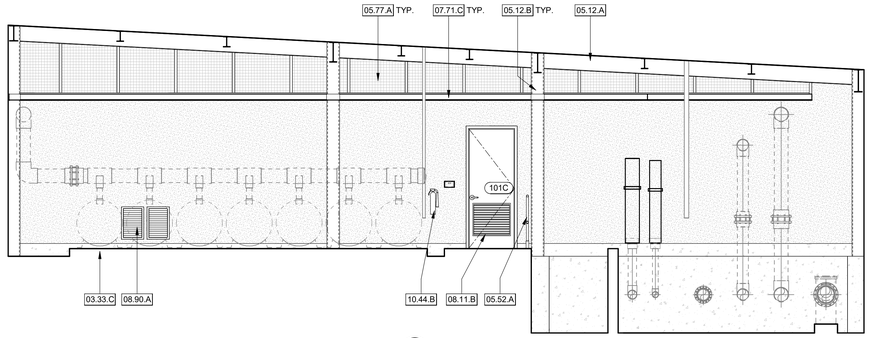


2D

PH BUFFER ROOM - 103 — 1/4" = 1'-0" — 2



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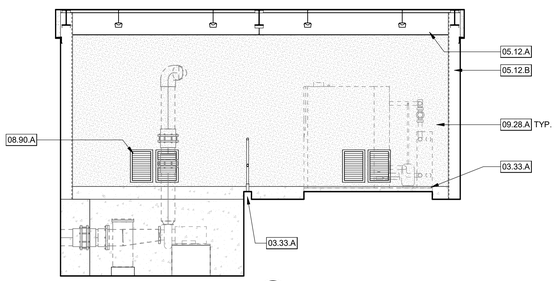

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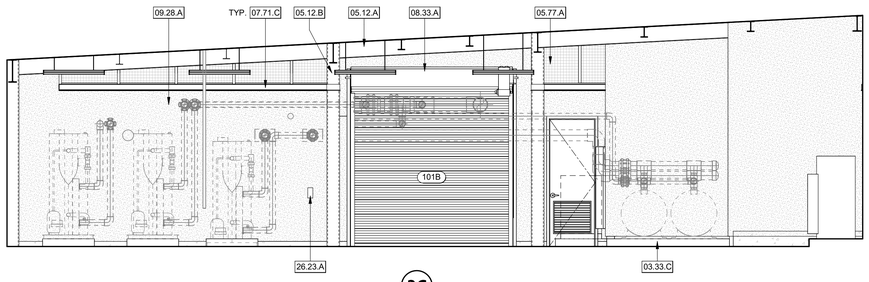

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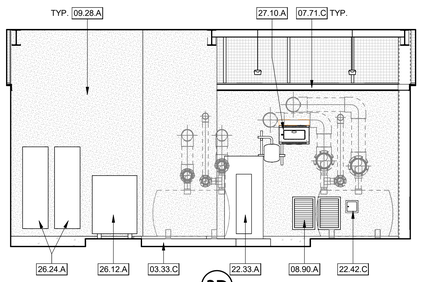

3D

POOL EQUIPMENT ROOM - 101 — 1/4" = 1'-0" — 3

KEYNOTES

03.33.A	CONCRETE CURB. PROVIDE GROUT CLEANED FINISH AT ALL EXPOSED CURBS.
03.33.C	CONCRETE EQUIPMENT PAD. SEE STRUCTURAL, ELECTRICAL, PLUMBING, AND AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION.
03.33.D	CAST-IN-PLACE CONCRETE RAMP WITH 6" CONCRETE CURB
05.10.B	EQUIPMENT MOUNTING FRAMING. SEE STRUCTURAL FOR MORE INFO.
05.12.A	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL ROOF BEAM. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.12.B	EPOXY PAINTED GALVANIZED STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
05.52.A	FLOOR MOUNTED REMOVABLE PAINTED GALVANIZED SAFETY GUARDRAIL.
05.52.B	GALVANIZED SAFETY CHAIN.
05.77.A	STAINLESS STEEL WIRE MESH PANELS.
07.71.C	BONDERIZED PAINTED METAL COPING FLASHING.
08.11.B	HOLLOW METAL DOOR(S) WITH LOUVER(S) AND DOOR FRAME, PAINTED. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
08.33.A	MOTOTRIZED OVERHEAD COILING DOOR. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
08.90.A	LOUVER.
09.28.A	5/8" WATER AND MOLD RESISTANT FIBERGLASS GLASS MAT TYPE 'X' GYP. BD., PAINTED WITH EPOXY PAINT.
10.44.B	SURFACE MOUNTED FIRE EXTINGUISHER.
22.33.A	WATER HEATER. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.42.C	HOSE BIBB. SEE PLUMBING FOR MORE INFO.
22.51.A	EMERGENCY EYEWASH STATION.
26.12.A	TRANSFORMER. SEE ELECTRICAL DRAWINGS FOR MORE INFO.
26.23.A	OVERHEAD COILING DOOR CONTROL SWITCH. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26.24.A	ELECTRICAL PANELBOARD. SEE ELECTRICAL FOR MORE INFO.
26.51.A	LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
27.10.A	DATA RACK. SEE ELECTRICAL FOR MORE INFO.

INTERIOR ELEVATION GENERAL NOTES

1. ALL STEEL TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT.
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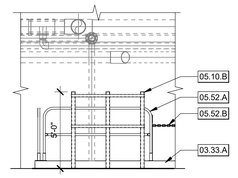

WATER MONITOR EQUIPMENT — 1/4" = 1'-0" — 4

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
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DATE: 08/18/2025

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REVISIONS

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
INTERIOR ELEVATIONS

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-601

DATE: MARCH 7, 2025

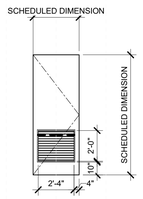
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:45 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

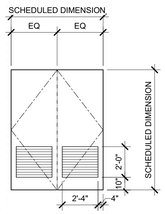
ISSUED: SEPTEMBER 9, 2025

DOOR SCHEDULE

MARK	FIRE RATING	SIZE			DOOR			FRAME			DETAILS			PANIC HARDWARE	HARDWARE GROUP	NOTES
		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
101A		3'-0"	8'-4"	1 3/4"	A	HM	P	A	HM	P	1/A-821	2/A-821	3/A-821	-	1.0	
101B	-	10'-0"	10'-0"		C	STL	MFR.	B	STL	-	12/A-821	14/A-821	-		2.0	
101C	-	3'-0"	7'-10"	1 3/4"	A	HM	P	A	HM	P	1/A-821	2/A-821	3/A-821	-	1.0	
102	-	3'-0"	8'-4"	1 3/4"	A	HM	P	A	HM	P	1/A-821	2/A-821	3/A-821	-	1.0	
103	-	6'-0"	8'-4"	1 3/4"	B	HM	P	A	HM	P	1/A-821	2/A-821	3/A-821	-	3.0	



DOOR TYPE 'A'



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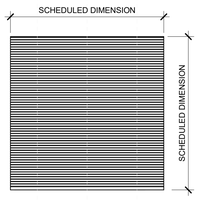

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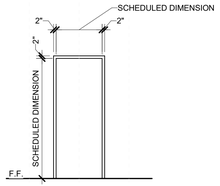
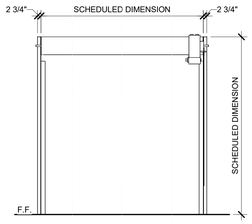


DOOR FRAME 'A'



DOOR FRAME 'B'

LEGEND - DOOR NOTES

1. DOORS SHALL BE 1-3/4" THICK UNLESS NOTED OTHERWISE.
2. THE SYMBOL (P) FOLLOWING THE 'DOOR TYPE' DESIGNATION IN THE DOOR SCHEDULE INDICATES PAIR OF DOORS. BOTH LEAVES ARE THE SAME SIZE, UNLESS NOTED OTHERWISE.
3. SEE REMARKS SECTION OF DOOR SCHEDULE FOR GLASS TYPES.
4. ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING, BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE:
   a. EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
   b. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISH FLOOR.
   c. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
   d. ALL ROOMS SERVING AN OCCUPANCY LOAD OF 50 OR GREATER AND DOORS LOCATED ON THE DISCHARGE OF EXIT CORRIDORS ARE REQUIRED TO BE PROVIDED WITH PANIC HARDWARE (CBC 1008.1.10).
   e. ALL FIRE DOOR LABELS SHALL COMPLY WITH CBC 716.2.9.
5. FIRE ASSEMBLIES REQUIRED TO HAVE A ONE-HOUR FIRE-PROTECTION RATING SHALL BE EITHER AUTOMATIC OR SELF-CLOSING FIRE ASSEMBLIES TO BE ACTIVATED BY AN INCREASE IN TEMPERATURE SHALL HAVE HEAT-ACTIVATING DEVICES INSTALLED ON EACH SIDE OF THE WALL AT THE CEILING HEIGHT WHERE THE CEILING IS MORE THAN 3 FEET ABOVE THE TOP OF THE OPENING OR BY A SINGLE FUSSIBLE LINK IN THE OPENING INCORPORATED IN THE CLOSING DEVICE.
6. ALL FIRE-RESISTIVE ASSEMBLIES FOR PROTECTED OPENING SHOULD COMPLY WITH SECTION 716 CBC.
7. SEE SPECIFICATION SECTION 08 71 00 FOR DOOR HARDWARE INDEX AND DOOR HARDWARE SETS.
8. EXTERIOR: STEELCRAFT "L" SERIES 16 GA HONEYCOMB CORE OR "S" OR "A" SERIES 16 GA TUBULAR FOR FULL GLASS, GALVANIZED, WITH GALVANIZED 14 GA FRAMES. USE MINIMUM 6" WIDE STILE ON ALL STILE & RAIL TYPE DOORS TO ACCOMMODATE EXIT DEVICES.
9. INTERIOR STEEL DOORS: STEELCRAFT "L" SERIES HONEYCOMB CORE, OR "S" OR "A" SERIES FOR FULL GLASS, 18 GA WITH 16 GA FRAMES. USE KNOCKDOWN FRAMES AT INTERIORS. USE MINIMUM 6" WIDE STILE ON ALL STILE & RAIL TYPE DOORS TO ACCOMMODATE EXIT DEVICES.
10. ALL INTERIOR HOLLOW METAL DOOR AND FRAMES TO HAVE JAMB AND HEAD GASKETING. PEMKO 319 OR EQUAL.
11. ALL INTERIOR STORFRONT FRAMES SHOULD PROVIDE GASKETING FOR THE HOLLOW METAL DOORS PER THE DETAILS.
12. PROVIDE ACCESS CONTROL WIRING AND DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
13. PROVIDE DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
14. SEE SHEET A-931 FOR SIGNAGE PLAN.

LEGEND - DOOR MATERIALS

DOOR CONSTRUCTION AND MATERIAL:
HM - GALVANIZED HOLLOW METAL, PAINTED

DOOR FACING AND FINISH:
SP - GALVANIZED STEEL, PAINTED

FRAME MATERIAL:
HM - GALVANIZED HOLLOW METAL, PAINTED
STL - STEEL

FRAME FINISH:
P - PAINTED GALVANIZED STEEL

FRAME TYPES:
A, B

AGENCY APPROVAL DSA# 03-124689

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ARCHITECT STAMP

LICENSED ARCHITECT
ALAN GLEN KROEKER
C-22474
REN. 10-31-25
STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
DOOR SCHEDULE

DRAWN BY: JOB NUMBER: 23024.02

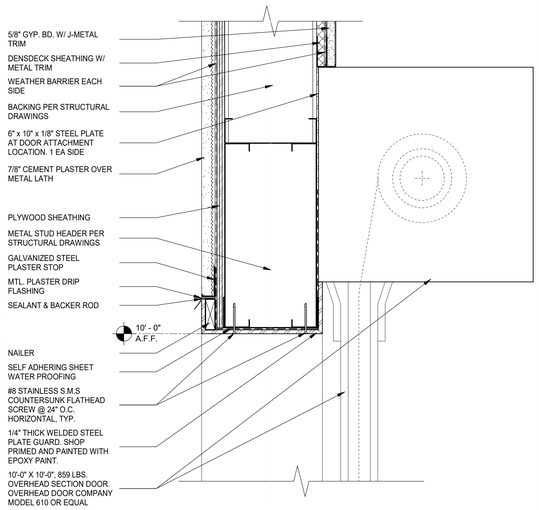
SHEET NO.
A-801

DATE: MARCH 7, 2025

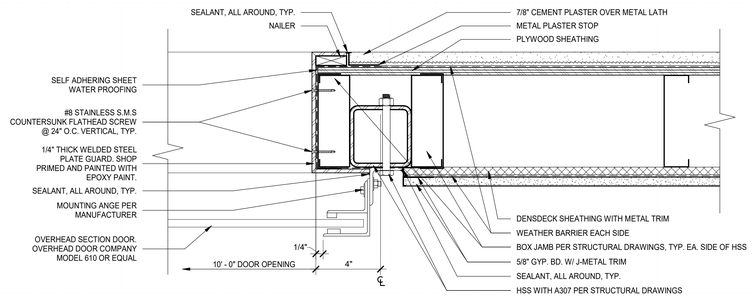
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:46 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

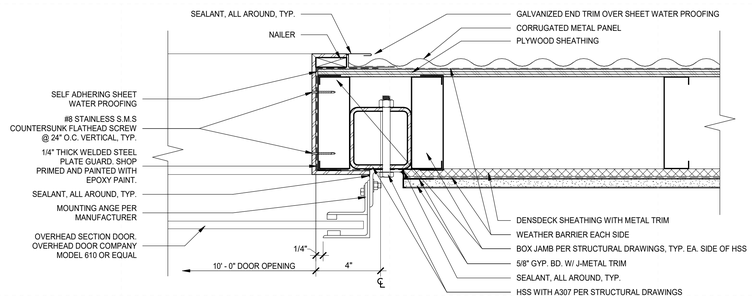
ISSUED: SEPTEMBER 9, 2025



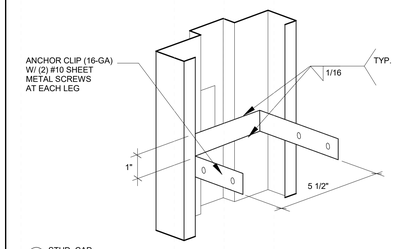
SECTIONAL DOOR HEAD | 3" = 1'-0" | 12



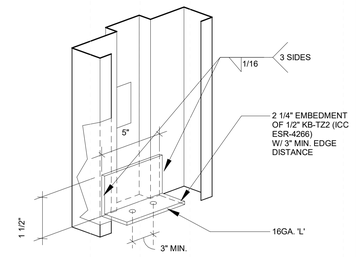
SECTIONAL DOOR JAMB AT PLASTER | 3" = 1'-0" | 13



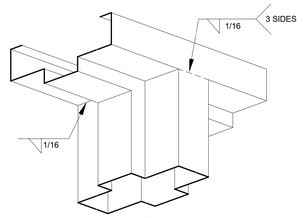
SECTIONAL DOOR JAMB AT MTL. PANEL | 3" = 1'-0" | 14



A STUD CAP

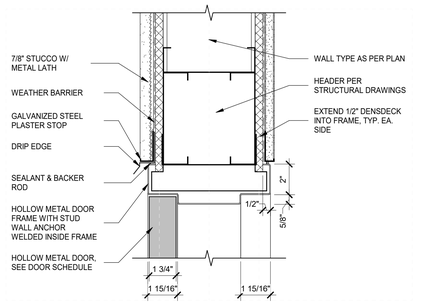


B FLOOR CLIP

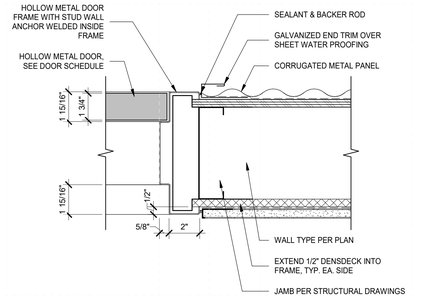


D TYP. MULLION & HEAD WELD

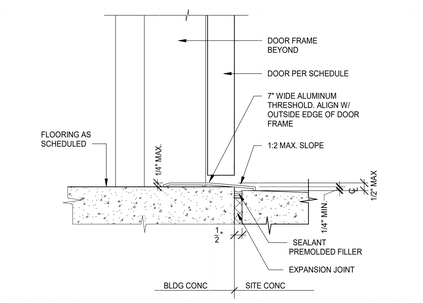
TYP. HM DOOR AND FRAME DETAILS | 3" = 1'-0" | 8



EXT DOOR HEAD | 3" = 1'-0" | 1



EXT DOOR JAMB | 3" = 1'-0" | 2



EXTERIOR DOOR THRESHOLD | 3" = 1'-0" | 3

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
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DATE: 08/18/2025

196

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

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LICENSED ARCHITECT ALAN GLEN KROEKER C-22474 REN. 10-31-25 STATE OF CALIFORNIA

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
DOOR DETAILS

DRAWN BY: JOB NUMBER: 23024.02

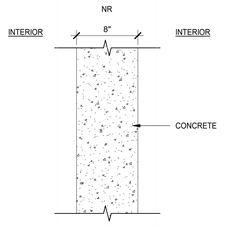
SHEET NO.
A-821

DATE: MARCH 7, 2025

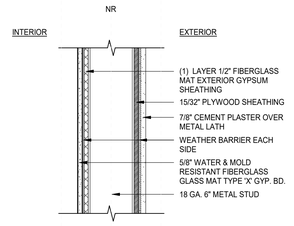
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:46 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

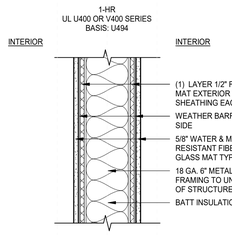


EXTERIOR WALL TYPE D — 1 1/2" = 1'-0" — D



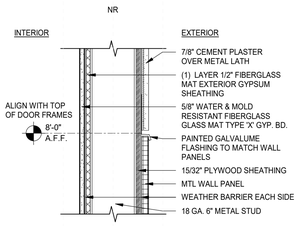
NOTE: SEE STRUCTURAL FOR GA AND SPACING 18 GA 16" O.C. TYP, U.O.N.

EXTERIOR WALL TYPE A — 1 1/2" = 1'-0" — A



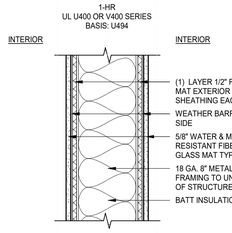
NOTE: SEE STRUCTURAL FOR GA AND SPACING 18 GA 16" O.C. TYP, U.O.N.

INTERIOR WALL TYPE E — 1 1/2" = 1'-0" — E



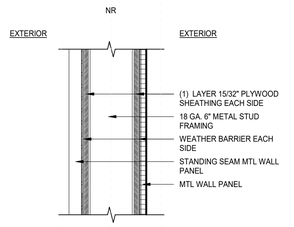
NOTE: SEE STRUCTURAL FOR GA AND SPACING 18 GA 16" O.C. TYP, U.O.N.

EXTERIOR WALL TYPE B — 1 1/2" = 1'-0" — B



NOTE: SEE STRUCTURAL FOR GA AND SPACING 18 GA 16" O.C. TYP, U.O.N.

INTERIOR WALL TYPE F — 1 1/2" = 1'-0" — F



NOTE: SEE STRUCTURAL FOR GA AND SPACING 18 GA 16" O.C. TYP, U.O.N.

EXTERIOR WALL TYPE C — 1 1/2" = 1'-0" — C

AGENCY APPROVAL DSA# 03-124689

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1801 Panorama Dr.
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Bakersfield College - Pool Equipment Building

SHEET TITLE
WALL TYPES

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-901

DATE: MARCH 7, 2025

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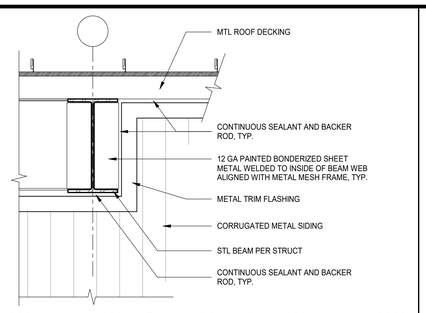
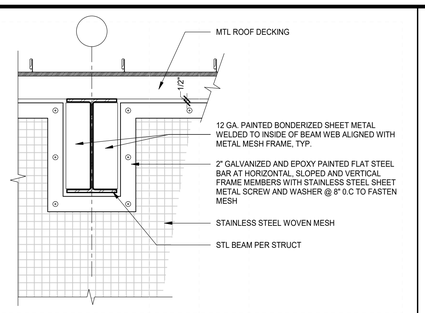
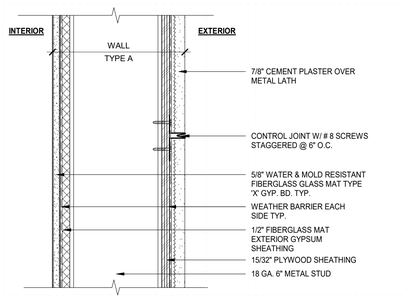


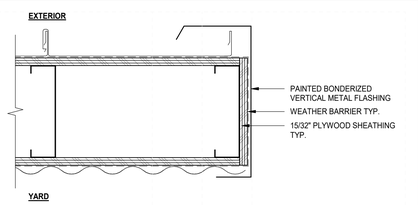
CORRUGATED SIDING @ BEAM | 1 1/2" = 1'-0" | 21



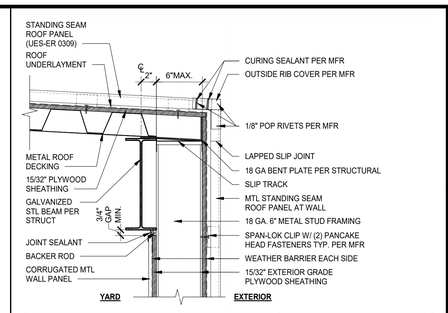
WIRE MESH - BEAM PENETRATION | 1 1/2" = 1'-0" | 16



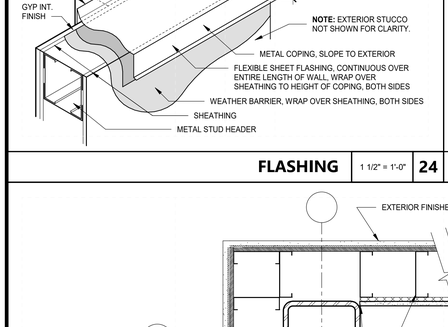
PLASTER - REVEAL | 3" = 1'-0" | 11



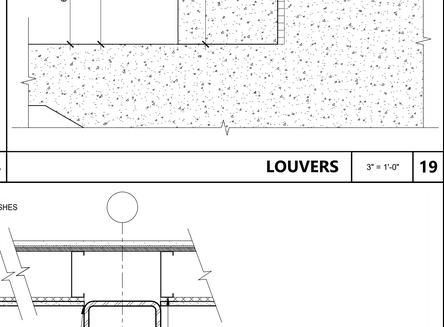
STANDING SEAM WALL - PLAN @ END | 3" = 1'-0" | 6



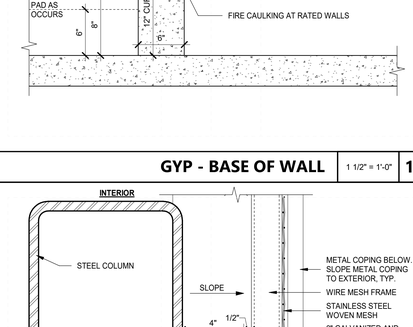
STANDING SEAM ROOF - LOW EAVE | 1 1/2" = 1'-0" | 1



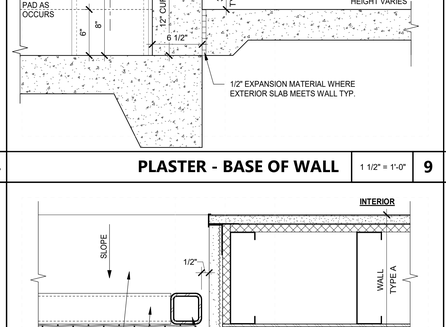
FLASHING | 1 1/2" = 1'-0" | 22



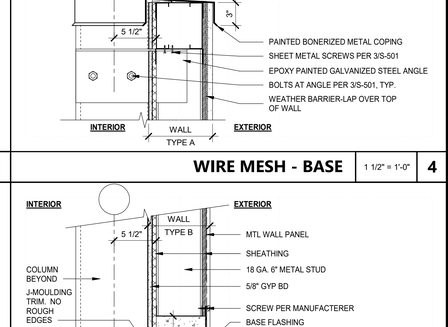
PLASTER - BEAM PENETRATION | 1 1/2" = 1'-0" | 17



MTL. TO STUCCO TRANSITION | 3" = 1'-0" | 12



STANDING SEAM ROOF - RAKE EAVE | 3" = 1'-0" | 7



STANDING SEAM WALL - BASE | 1 1/2" = 1'-0" | 2

FLASHING | 1 1/2" = 1'-0" | 23

LOUVERS | 3" = 1'-0" | 19

GYP - TOP OF WALL | 1 1/2" = 1'-0" | 13

PLASTER - TOP OF WALL | 1 1/2" = 1'-0" | 8

WIRE MESH - TOP | 1 1/2" = 1'-0" | 3

FLASHING | 1 1/2" = 1'-0" | 24

GYP - BASE OF WALL | 1 1/2" = 1'-0" | 14

PLASTER - BASE OF WALL | 1 1/2" = 1'-0" | 9

WIRE MESH - BASE | 1 1/2" = 1'-0" | 4

EXTERIOR WALLS AT COLUMNS | 1 1/2" = 1'-0" | 20

WIRE MESH - CORNER | 3" = 1'-0" | 15

WIRE MESH - JAMB | 3" = 1'-0" | 10

CORRUGATED SIDING - BASE OF WALL | 1 1/2" = 1'-0" | 5

AGENCY APPROVAL DSA# 03-124689

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SHEET TITLE
WALL & ROOF DETAILS

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-902

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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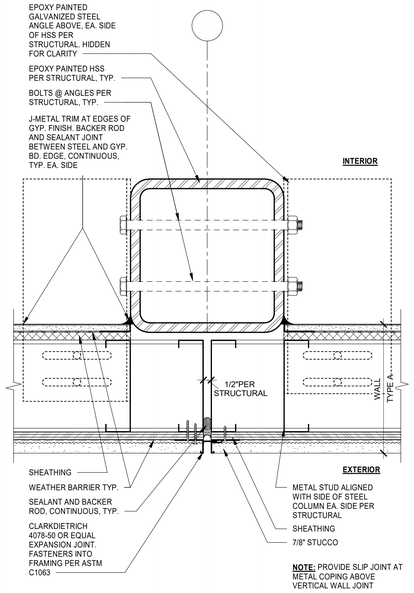
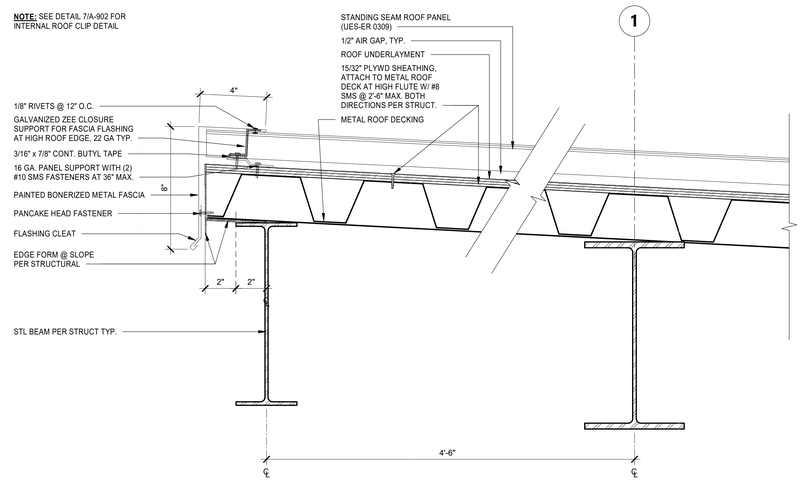
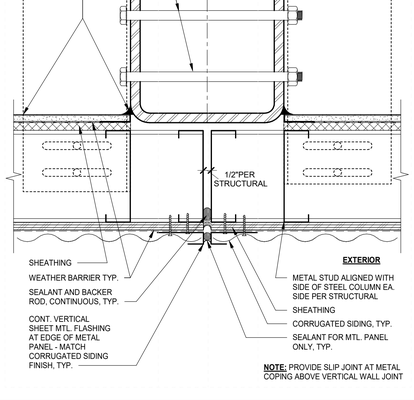


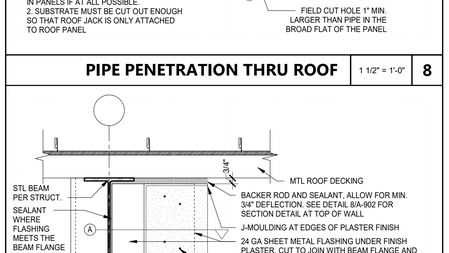
THRU WALL EXPANSION JOINT - PLAN | 3" = 1'-0" | **12**



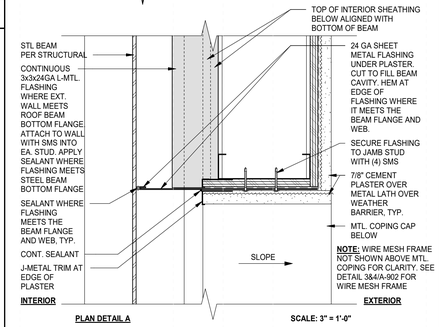
STANDING SEAM ROOF - HIGH EAVE | 3" = 1'-0" | **1**



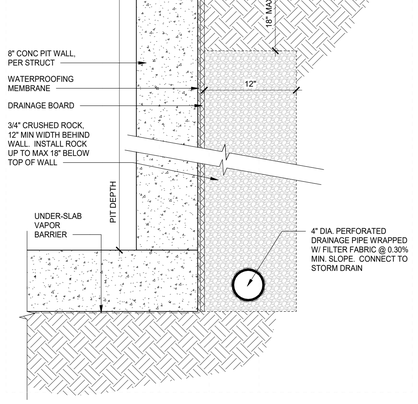
THRU WALL EXPANSION JOINT - PLAN | 3" = 1'-0" | **14**



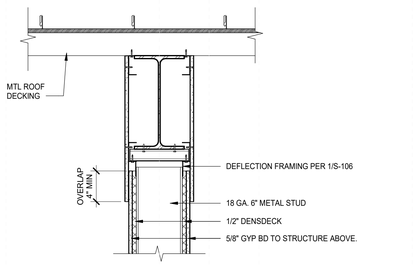
PIPE PENETRATION THRU ROOF | 1 1/2" = 1'-0" | **8**



PLASTER - TOP OF EXT. WALL AT BEAM | 1 1/2" = 1'-0" | **10**



SURGE TANK WATERPROOFING | 1 1/2" = 1'-0" | **4**



GYP - TOP OF WALL BEAM PENETRATION | 1 1/2" = 1'-0" | **5**

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
WALL & ROOF DETAILS

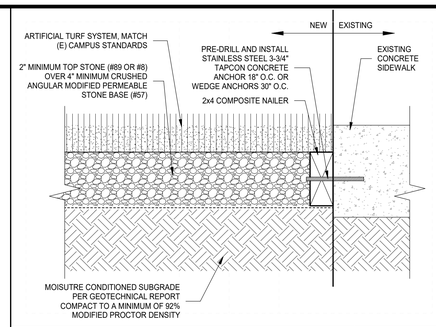
DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-903

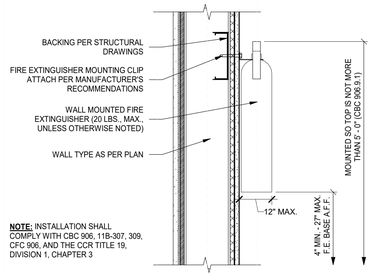
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:47 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt
ISSUED: SEPTEMBER 9, 2025



ARTIFICIAL TURF AT CONC. EDGE | 3" = 1'-0" | 11



NOTE: INSTALLATION SHALL COMPLY WITH CBC 906, 11B-307, 309, CFC 906, AND THE CCR TITLE 19, DIVISION 1, CHAPTER 3

FIRE EXTINGUISHER - WALL HUNG | 1 1/2" = 1'-0" | 6

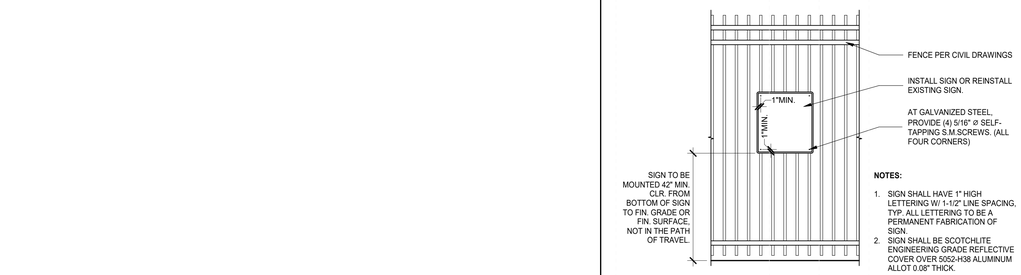
1. PROVIDE SIGNS WHERE INDICATED ON PLANS.
2. RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE.

   DEPTH:RAISED CHARACTERS SHALL BE 1/32INCH MINIMUM ABOVE THEIR BACKGROUND
   CASE: CHARACTERS SHALL BE UPPER CASE
   STYLE: CHARACTERS SHALL BE SANS SERIF
   PROPORTIONS: THE WIDTH OF LETTER "O" SHALL BE 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF LETTER "I"
   HEIGHT: 5/8 INCH MINIMUM AND 2 INCHES MAXIUM
3. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 11B-703.3.

   DIMENSIONS: BASE DOT DIAMTER 0.059 INCHES TO 0.063 INCHES
   SPACING IN EACH CELL AT 0.10 INCHES ON CENTER
   SPACING BETWEEN CELLS TO BE 0.30 INCHES
   DOT HEIGHT TO BE BETWEEN 0.025 INCHES TO 0.037 INCHES WITH DOMED TOPS
   POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT
4. CHARACTERS AND SYMBOLS SHALL BE LIGHT-ON-DARK OR DARK-ON-LIGHT CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND.

21.12.14 - 00000

SIGNAGE - GENERAL NOTES | 12" = 1'-0" | 1

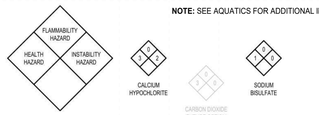


NOTES:

1. SIGN SHALL HAVE 1" HIGH LETTERING W/ 1-1/2" LINE SPACING, TYP. ALL LETTERING TO BE A PERMANENT FABRICATION OF SIGN.
2. SIGN SHALL BE SCOTCHLITE ENGINEERING GRADE REFLECTIVE COVER OVER 5052-H38 ALUMINUM ALLOT 0.08" THICK.

21.12.14 - 00000

SIGNAGE AT FENCE | 1/2" = 1'-0" | 12



NOTE: SEE AQUATICS FOR ADDITIONAL INFORMATION

RATING EXPLANATION GUIDE

RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD
4	CAN BE LETHAL	BELOW 73 DEGREES F	MAY EXPLODE AT NORMAL TEMPERATURES & PRESSURES
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	ABOVE 73 DEGREES, BELOW 100 DEGREES F	MAY EXPLODE AT HIGH TEMPERATURE OR SHOCK
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	ABOVE 100 DEGREES F, BELOW 200 DEGREES F	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES
1	CAN CAUSE SIGNIFICANT IRRITATION	ABOVE 200 DEGREES F	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE
0	NO HAZARD	WILL NOT BURN	STABLE

CONFIRM SIGNAGE WITH LOCAL FIRE MARSHAL AND/OR BUILDING CODES PRIOR TO INSTALLATION.

21.12.14 - 00000

HAZARD SIGNAGE | N.T.S. | 7

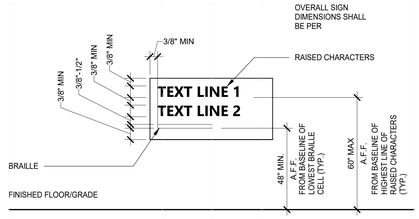
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE 1 / A-921 3 / A-921

NOTE 2: FOR LOCATION AND MOUNTING SEE 4 / A-921

NOTE 3: FOR ROOM NAMES THAT REQUIRE MULTIPLE LINES OF TEXT, EXPAND THE SIGN VERTICALLY TO ACCOMMODATE THE TEXT

21.12.14 - 00000

SIGNAGE - ROOM IDENTIFICATION | 3" = 1'-0" | 2



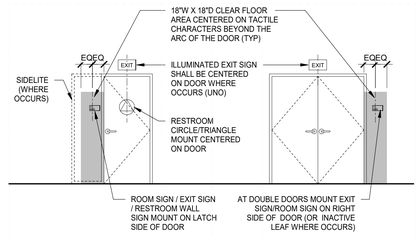
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE 1 / A-921

NOTE 2: FOR LOCATION AND MOUNTING SEE 4 / A-921

NOTE 3: FOR SIGNS WITH ONLY A SINGLE LINE OF TEXT, IT SHALL BE LOCATED AT "TEXT LINE 2"

21.12.14 - 00000

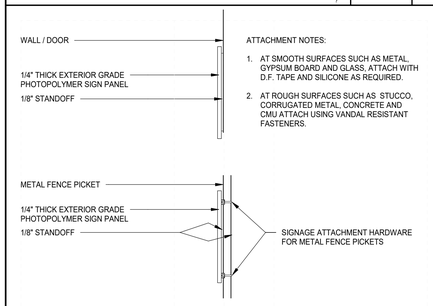
SIGNAGE - CODE DIMENSIONS | 3" = 1'-0" | 3



NOTE 1:
WHERE NO WALL SPACE IS AVAILABLE ON LATCH SIDE FOR SINGLE DOORS OR THE RIGHT SIDE AT DOUBLE DOORS. SIGNS SHALL BE PLACED ON NEAREST ADJACENT WALL, PREFERABLE LATCH SIDE FOR SINGLE DOORS OR THE RIGHT SIDE AT DOUBLE DOORS

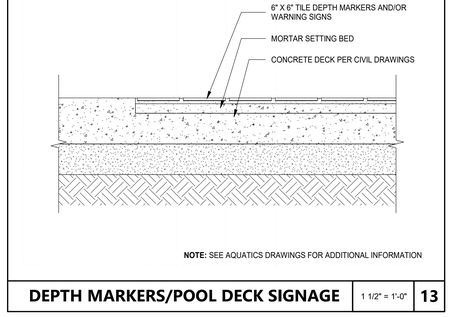
21.12.14 - 00000

SIGNAGE - MOUNTING LOCATIONS | 1/4" = 1'-0" | 4



21.12.14 - 00000

SIGNAGE - MOUNTING | 3" = 1'-0" | 5



NOTE: SEE AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION

DEPTH MARKERS/POOL DECK SIGNAGE | 1 1/2" = 1'-0" | 13

AGENCY APPROVAL DSA# 03-124689

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ARCHITECT STAMP | CONSULTANT STAMP

LICENSED ARCHITECT
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KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
MISC. DETAILS

DRAWN BY: JOB NUMBER: 23024.02

SHEET NO.
A-921

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/6/2025 11:18:47 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

STRUCTURAL ABBREVIATIONS

AR	ANCHOR RODS	JST	JOIST
ABV	ABOVE	JT	JOINT
ADDL	ADDITIONAL		
ALT	ALTERNATE	KSI	KIP PER SQUARE INCH
ANCH	ANCHOR		
&	AND	LBS	POUNDS
ARCH	ARCHITECT(URAL)	LLBB	LONG LEG BACK-BACK
@	AT	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
BF	BRACE FRAME	LONG	LONGITUDINAL
BLDG	BUILDING	LT WT	LIGHT WEIGHT
BLK	BLOCK	LVL	LAMINATED VENEER (LUMBER)
BLKG	BLOCKING	LVL	LEVEL (FLOOR)
BEL	BELOW		
BM	BEAM	MAX	MAXIMUM
BN	BOUNDARY NAILING	MB	MACHINE BOLT
B or BOT	BOTTOM	MECH	MECHANICAL
BRG	BEARING	MEZZ	MEZZANINE
BTWN	BETWEEN	MFR	MANUFACTURER
BU	BUILT-UP	MIN	MINIMUM
BUB	BACK-UP BAR	MISC	MISCELLANEOUS
		MTL	METAL
CAMB(C)	CAMBER(ED)	MS	MIDDLE STRIP
CBC	CALIFORNIA BUILDING CODE		
CG	CENTER OF GRAVITY	(N)	NEW
CIP	CAST IN PLACE	NIC	NOT IN CONTRACT
CJ	CONSTRUCTION JOINT	NO (#)	NUMBER
	OR CONTROL JOINT	NS	NEAR SIDE
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CL(℄)	CENTERLINE	NORM WT	NORMAL WEIGHT
CLG	CEILING		
CLR	CLEAR	OC	ON CENTER (NOT NECESSARY)
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL	COLUMN	OF	OUTSIDE FACE
CONC	CONCRETE	OH	OPPOSITE HAND
CONN	CONNECTION	O-O	OUT TO OUT
CONT	CONTINUOUS	OPNG	OPENING
CS	COLUMN STRIP		
CRC	COLD ROLLED CHANNEL	PARA	PARALLEL
CTR	CENTER(ED)	P/C	PRECAST
CTRSK	COUNTERSINK	PERP	PERPENDICULAR
C-C	CENTER TO CENTER	PJP	PARTIAL JOINT PENETRATION
		PL (|P)	PLATE
d	PENNY(NAILS)	PLY	PLYWOOD
DBL	DOUBLE	PSF	POUNDS PER SQUARE FOOT
DCW	DEMAND CRITICAL WELD	PSI	POUNDS PER SQUARE INCH
DET	DETAIL	PT	PRESSURE TREATED
DF	DOUGLAS FIR	P/T	POSTTENSIONED(PRESTRESSED)
DIA(Ø)	DIAMETER		
DIAG	DIAGONAL	RAD (R)	RADIUS
DIM	DIMENSION	REF	REFERENCE
DN	DOWN	REQ'D	REQUIRED
DO	DITTO (REPEAT)	REINF	REINFORCEMENT(ING)
DP	DEEP	RJ	ROOF JOIST
DWG	DRAWING		
DWL	DOWELS	SC	SLIP CRITICAL
		SEP	SEPARATION
EA	EACH	SCHED	SCHEDULE
EBF	ECCENTRIC BRACE FRAME	SFRS	SEISMIC FORCE RESISTING SYSTEM
EF	EACH FACE	SIM	SIMILAR
EJ	EXPANSION JOINT	SIMP	SIMPSON
ELEC	ELECTRICAL	SHT	SHEET
ELEV	ELEVATION/ELEVATOR	SHTG	SHEATHING
EMBED	EMBEDMENT	SLBB	SHORT LEB BACH-BACK
EN	EDGE NAILING	SLV	SHORT LEB VERTICAL
EQ	EQUAL	SMS	SHEET METAL SCREWS
EQUIP	EQUIPMENT	SOG	SLAB ON GRADE
ES	SIDE EACH	SPECS	SPECIFICATIONS
EW	EACH WAY	SP	SPACE (S)
EXIST(E)	EXISTING	SQ	SQUARE
EXP	EXPANSION	SSC	SINGLE SHEAR CONNECTION
EXT	EXTERIOR	STAGG	STAGGER(ED)
		SS	STAINLESS STEEL
FIN	FINISH(ED)	STD	STANDARD
FLR	FLOOR	STIFF	STIFFENER
FDN	FOUNDATION	STL	STEEL
FLG	FLANGE	STRUC	STRUCTURAL
FN	FIELD NAILING	SYMM	SYMMETRICAL
FOB	FACE OF BLOCK OR BRICK		
FOC	FACE OF CONCRETE	T & B	TOP AND BOTTOM
FO PLY	FACE OF PLYWOOD	T & G	TONGUE AND GROOVE
FOS	FACE OF STUDS	TEMP	TEMPORARY
FMG	FRAMING	THK	THICK(NESS)
FS	FAR SIDE	THRD	THREADED
FT	FOOT	THRU	THROUGH
FTG	FOOTING	TP	TOP OF PARAPET
		T PLY	TOP OF PLYWOOD
GA	GAGE	TRANS	TRANSVERSE
GALV	GALVANIZED	TOC	TOP OF CONCRETE
GB	GRADE BEAM	TOS	TOP OF STEEL
GL	GRID LINE	TSG	TAPERED STEEL GIRDER
GLB	GLUE-LAMINATED BEAM	TOW	TOP OF WALL
		TYP	TYPICAL
HCA	HEADED CONCRETE ANCHOR		
HD	HOLD DOWN	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER		
HGR	HANGER	VERT	VERTICAL
HORIZ	HORIZONTAL		
HSB	HIGH STRENGTH BOLT	W/	WITH
HS	HIGH STRENGTH	WBS	WELDED BEAM SEAT
HT	HEIGHT	WD	WOOD
		WP	WORK POINT
IBC	INTERNATIONAL BUILDING CODE	WPJ	WEAKENED PLANE JOINT
ID	INSIDE DIAMETER	WS	WELDED STUDS
IF	INSIDE FACE	WT	WEIGHT
IN	INCH	WWF	WELDED WIRE FABRIC
INFO	INFORMATION		
INT	INTERIOR		

FOUNDATIONS AND SITE WORK

1. THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE CRITERIA AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED GEOTECHNICAL ENGINEERING / GEO LOGIC HAZARDS INVESTIGATION BY KRAZAN & ASSOCIATES, INC., DATED AUGUST 20, 2024 AND ALL SUBSEQUENT ADDENDA. COPIES SHALL BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

2. FOOTING DESIGN IS BASED ON THE FOLLOWING:

DESCRIPTION		MINIMUM DIMENSION
WIDTH	CONTINUOUS FTG	12 INCHES
	ISOLATED FTG	12 INCHES
THICKNESS		18 INCHES
EMBEDMENT (LOWEST ADJACENT GRADE TO BOTTOM OF FOOTING		18 INCHES

DESCRIPTION		ALLOWABLE CAPACITY	COMMENTS
VERTICAL BEARING PRESSURES	CONTINUOUS FTG	2500 PSF	SEE NOTES A AND B
	ISOLATED FTG	2500 PSF	SEE NOTES A AND B
LATERAL (PASSIVE) BEARING PRESSURE		325 PSF/FT	N/A
COEFFICIENT OF FRICTION		0.35	N/A

A. CAPACITY MAY BE INCREASED BY 1/3 FOR SHORT-TERM WIND OR SEISMIC LOADS

3. ALL EARTHWORK SHALL BE DONE IN ACCORDANCE WITH SOILS REPORT RECOMMENDATIONS.THE GEOTECHNICAL INVESTIGATION REPORT AND ITS RECOMMENDATIONS SHALL BE FOLLOWED AND SHALL BE CONSIDERED MINIMUM REQUIREMENTS UNLESS MORE STRINGENT REQUIREMENTS ARE PRESENTED IN THE CONSTRUCTION DOCUMENTS.

4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.

5. CONTRACTOR SHALL PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE AS REQUIRED. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.

6. EXCAVATION AND COMPACTING IF REQUIRED SHALL BE APPROVED BY THE GOVERNING AGENCY AND THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE GEOTECHNICAL ENGINEER SHALL SUBMIT LETTER OF COMPLIANCE TO THE OWNER'S REPRESENTATIVE.

7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE WALLS HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.

8. FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE FOUNDATION ENGINEER, FOOTING ELEVATIONS SHALL BE ALTERED AS REQUIRED.

9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH SOIL REPORT. FLOODING IS NOT BE PERMITTED.

10. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.

11. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318) AND THE 'MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION' BY THE C.R.S.I. AND THE W.C.R.S.I., OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.

2. REINFORCING BARS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE.

CLASSIFICATION	TYPE
REINFORCING STEEL IN GRAVITY BEAMS, GRAVITY COLUMNS, STIRRUPS, TIES, FOUNDATIONS, PILECAPS, AND GRADE BEAMS (UNO):	ASTM A615, 60 KSI* (#4 AND SMALLER MAY BE GR 40)

* ASTM A706 GR 60 MAY BE CONSIDERED EQUIVALENT TO ASTM A615, BUT ASTM A615 IS NOT EQUIVALENT TO ASTM A706.

3. MECHANICAL COUPLERS: LENTON THREADED COUPLERS BY ERICO, IAPMO UES ER 0129, HRC 500/510 XTENDER BY HEADED REINFORCEMENT CORPORATION, ICC ESR #2764, OR BAR-LOCK BY DAYTON SUPERIOR CORP, IAPMO UES ER 0319). COUPLERS FOR BEAM AND SLAB BARS AT FORMED CONSTRUCTION JOINTS MAY BE LENTON FORM SAVERS BY ERICO, IAPMO UES ER 0129. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICING REINFORCING BARS ONLY WHERE SPECIFICALLY APPROVED BY THE SEOR

4. WELDING OF REINFORCEMENT SHALL BE WITH LOW HYDROGEN E90XX ELECTRODES FOR WELDING ASTM A615 BARS AND E80XX ELECTRODES FOR WELDING ASTM A706 BARS TO OTHER A706 BARS. WELDING OF A706 BARS TO A36 OR A572 STEEL SHALL BE WITH E70XX ELECTRODES ALL WELDING SHALL BE IN CONFORMANCE WITH AMERICAN WELDING SOCIETY, AWS-D1.4. ONLY WELDERS SPECIFICALLY CERTIFIED FOR REINFORCING STEEL AND IN ACCORDANCE WITH AWS D1.4 SHALL PERFORM WELDING OF REINFORCING STEEL.

5. DRAWINGS SHOW TYPICAL REINFORCING CONDITIONS. CONTRACTOR SHALL PREPARE DETAILED PLACEMENT DRAWINGS OF ALL CONDITIONS SHOWING QUANTITY, SPACING, SIZE, CLEARANCES, LAPS, INTERSECTIONS AND COVERAGE REQUIRED BY STRUCTURAL DETAILS, APPLICABLE CODE AND TRADE STANDARDS. CONTRACTOR SHALL NOTIFY REINFORCING DEPUTY INSPECTOR OF ANY ADJUSTMENTS FROM TYPICAL CONDITIONS THAT ARE PROPOSED IN PLACEMENT DRAWINGS TO FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.

6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. RE-BENDING OF REINFORCING IS NOT PERMITTED.

7. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 12 INCHES, OR ONE FULL MESH PLUS TWO INCHES, WHICHEVER IS GREATER.

8. REINFORCING SPLICES SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS.

9. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS NOTED OTHERWISE.

10. DOWELS BETWEEN SLABS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS NOTED OTHERWISE.

11. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.

12. CONTRACTOR SHALL PROVIDE FOR AN ALLOWABLE OF 5 TONS OF REINFORCING TO BE FABRICATED AND PLACED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER. THE UNUSED PORTION SHALL BE CREDITED TO THE OWNER AT THE COMPLETION OF THE CONCRETE WORK.

GENERAL CONTINUED

22. CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS AND SHALL STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE OWNER'S REPRESENTATIVE.

23. ARCHITECT'S / ENGINEER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM CONTRACT DOCUMENTS.

24. SHOP DRAWINGS WILL NOT BE PROCESSED DUE TO INCOMPLETENESS, LACK OF COORDINATION WITH RELEVANT PORTION OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS IF REQUIRED AND WHERE DEVIATIONS, MODIFICATIONS AND SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE.

25. ALLOW SEVEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS OTHER THAN STRUCTURAL STEEL & DESIGN-BUILD ITEMS AFTER RECEIPT BY THE STRUCTURAL ENGINEER. ALLOW FOURTEEN WORKING DAYS FOR PROCESSING STRUCTURAL STEEL & DESIGN-BUILD ITEMS SHOP DRAWINGS. SHOP DRAWINGS AND SUBMITTALS WILL BE REVIEWED A MAXIMUM OF TWO TIMES.

26. ALLOW FIVE WORKING DAYS TO RESPOND TO REQUESTS FOR INFORMATION (RFI'S)

27. DESIGN LOADS:

A. DEAD LOADS: CONSIST OF BUILDING SELF-WEIGHT PLUS SUPERIMPOSED DEAD LOADS. REFER TO COMPLETE SET OF DRAWINGS FOR DETERMINING DEAD LOADS. DESIGN INCLUDES SUPERIMPOSED DEAD LOAD OF 5.0 PSF FOR PHOTOVOLTAIC (PV) ON ROOF.

B. LIVE LOADS:

AREA	DESIGN LIVE LOAD	REMARK
ROOF	20 PSF	REDUCIBLE

C. SEISMIC DESIGN LOADS:

SEISMIC IMPORTANCE FACTOR Ie	= 1.0
RISK CATEGORY	= II
S_S	= 0.905
S_1	= 0.326
SITE CLASS	= D
S_{DS}	= 0.686
S_{D1}	= 0.429
SEISMIC DESIGN CATEGORY	= D
LATERAL LOAD RESISTING SYSTEM	= STEEL SPECIAL CANTILEVER COLUMN SYSTEM
R	= 2.5
Ω_0	= 1.25
C_D	= 2.5
C_S	= 0.29
SEISMIC DESIGN BASE SHEAR	= 15.8 kips (ASD)
ANALYSIS PROCEDURE USED	= ELF

D. WIND DESIGN LOADS:

BASIC WIND SPEED (3 SEC. GUST)	= 94 MPH (ULTIMATE); 73 MPH (ASD)
RISK CATEGORY	= II
WIND EXPOSURE	= C
INTERNAL PRESSURE COEFFICIENT	= 0.55 FOR PARTIALLY ENCLOSED STRUCTURE

STRUCTURAL DRAWING LIST

SHEET NUMBER	SHEET TITLE
S-001	GENERAL NOTES
S-002	GENERAL NOTES
S-003	GENERAL NOTES
S-101	TYPICAL DETAILS
S-102	TYPICAL DETAILS
S-103	TYPICAL DETAILS
S-104	TYPICAL DETAILS
S-105	TYPICAL DETAILS
S-106	TYPICAL DETAILS
S-107	TYPICAL DETAILS
S-108	TYPICAL DETAILS
S-201	FOUNDATION PLAN
S-202	ROOF FRAMING PLAN
S-301	STUD WALL ELEVATIONS
S-401	FOUNDATION SECTIONS AND DETAILS
S-402	FOUNDATION SECTIONS AND DETAILS
S-501	SECTIONS AND DETAILS

GENERAL

1. THE PROJECT SPECIFICATIONS FORM A PART OF THESE GENERAL NOTES.

2. CONTRACTOR SHALL CAREFULLY REVIEW ALL CONTRACT DOCUMENTS TO IDENTIFY THE EXTENT OF THE SCOPE OF WORK. VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE DESIGN TEAM SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

4. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE CONTRACT DOCUMENTS WITH THE DESIGN TEAM BEFORE PROCEEDING WITH THE WORK.

5. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING:

   CALIFORNIA BUILDING CODE, 2022 EDITION AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING BUT NOT LIMITED TO CAL/OSHA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.

6. CODES AND STANDARDS NOTED IN THE CONTRACT DOCUMENTS SHALL BE OF THE LATEST ADOPTED ISSUE, INCLUDING SUPPLEMENTS, UNLESS OTHERWISE NOTED. MATERIAL SPECIFICATIONS SHALL COMPLY WITH ASTM REFERENCED STANDARDS LATEST ADOPTED EDITION.

7. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. DRAWINGS SHALL NOT BE SCALED.

8. DETAILS IN SHEETS TITLED 'TYPICAL DETAILS', TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT SPECIFICALLY REFERENCED WHERE THEY OCCUR.

9. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NOTES AND DETAILS ON DRAWINGS ARE IN CONFLICT WITH GENERAL NOTES, TYPICAL DETAILS, OR PROJECT SPECIFICATIONS THE MOST STRINGENT SHALL APPLY. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR SIMILAR WORK.

10. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
    A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS.
    B. SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
    C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
    D. EXTERIOR WALL SYSTEM.
    E. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS.
    F. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

11. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
    A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL, ROOF AND FLOOR OPENINGS, ETC., NOT SHOWN OR NOTED.
    B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
    C. ANCHORAGE AND BRACING FOR ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT TO THE STRUCTURE.
    D. ANCHOR BOLTS FOR EQUIPMENT MOUNTS.
    E. SIZE, WEIGHT, AND LOCATION OF MACHINE AND EQUIPMENT BASES.

12. ANY DEVIATION FROM THE APPROVED SET OF CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL BEFORE PROCEEDING WITH THE WORK. SUBSTITUTIONS OF PRODUCTS OR MATERIALS SPECIFIED ON THE CONSTRUCTION DOCUMENTS ARE NOT ALLOWED WITHOUT OWNER'S REPRESENTATIVE'S APPROVAL.

13. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE CHECKING AGENCY PRIOR TO THEIR USE. ALL REQUIREMENTS OF THOSE APPROVALS SHALL BE FOLLOWED.

14. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED. SITE VISITS PERFORMED BY THE OWNER'S REPRESENTATIVE DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY CONTRACTOR.

15. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND COMPONENTS, SOILS, OTHER STRUCTURES AND UTILITIES MAY BE SUBJECTED DURING CONSTRUCTION. SHORING SYSTEMS SHALL BE DESIGNED AND STAMPED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.

16. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT SPECIFIED ON THIS SET OF DRAWINGS. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH OR WHERE OVERLOAD IS ANTICIPATED.

17. DO NOT SPLICE STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET OF DRAWINGS. DO NOT PLACE OPENINGS, POCKETS, ETC. IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET OF STRUCTURAL DRAWINGS.

18. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF DRAWINGS BY OTHERS REQUIRE MODIFICATIONS TO STRUCTURAL MEMBERS AS SHOWN IN THIS SET OF STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.

19. UNLESS NOTED OTHERWISE, COLUMNS, WALLS, BEAMS, FOOTINGS, ETC, ARE CENTERED AT GRIDLINES. WHERE BEAM TO BEAM SPACING IS NOT SHOWN, BEAM SHALL BE EQUALLY SPACED BETWEEN GRIDLINES.

20. STRUCTURAL OBSERVATIONS PERFORMED BY THE STRUCTURAL ENGINEER DURING CONSTRUCTION ARE NOT THE REQUIRED CONTINUOUS AND SPECIAL INSPECTION SERVICES AND DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR. OBSERVATIONS ALSO DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196

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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
JOHN ANTHONY MARTIN
No. S4762
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
GENERAL NOTES

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.
S-001

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt
DATE PLOTTED: 3/4/2025 12:11:53 PM
ISSUED: SEPTEMBER 9, 2025

METAL DECK

1. THE STEEL DECKING SHALL BE OF TYPE AND GAUGE AS CALLED FOR ON THE DRAWINGS MANUFACTURED BY ASC STEEL DECK (IAPMO UES ER 0329 AND IAPMO UES ER 0161) OR VERCO DECKING, INC (IAPMO UES ER 2018) OR APPROVED EQUAL. DECKING AND ALL ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS HAVING A MINIMUM YIELD STRENGTH OF AS DEFINED IN THE PRODUCT APPROVAL REPORTS. GALVANIZED DECK SHALL CONFORM TO ASTM A653 OR A1063 AND SHALL BE ZINC-COATED CONFORMING TO ASTM A525, MINIMUM CLASS G60. PAINTED DECKS SHALL CONFORM TO ASTM A1008 OR A1039.

2. DECK LAYOUT SHALL PROVIDE ALL DECK SHEETS OF SUFFICIENT LENGTH TO EXTEND CONTINUOUSLY OVER AT LEAST 3 SPANS WHERE POSSIBLE. DECK SPANNING OVER FEWER THAN 3 SPANS SHALL HAVE THE MINIMUM VERTICAL AND DIAPHRAGM CAPACITY OF THE THREE SPAN CONDITION (INCREASING THE DECK GAUGE OR SHORING THE DECK MAY BE NECESSARY).

3. MINIMUM BEARING OF DECKING ON SUPPORTS SHALL BE 2 INCHES. SHEETS SHALL BE ATTACHED TO ALL SUPPORTING STEEL MEMBERS BY WELDING AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UPON COMPLETION OF ERECTION, ALL WELDS IN EXPOSED DECK AREAS SHALL HAVE TOUCH-UP, DE-SLAG, CLEAN AND PRIME WITH A ZINC RICH PRIMER. DECK WELDING SHALL BE AS NOTED ON PLANS. WHERE NO WELDING IS NOTED, THE SIDE LAP OF EACH PANEL SHALL BE FASTENED BY 1 INCH LONG FILLET WELDS AT 3 FEET ON CENTER MAXIMUM, OR BUTTON PUNCHED AT 18 INCHES ON CENTER.

4. SEE DRAWINGS FOR DETAIL OF REINFORCING OF DECK OPENINGS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL DRAWINGS, ETC., FOR SIZE AND LOCATION F REQUIRED OPENINGS.

5. ALL WELDING OF STEEL DECK SHALL BE IN COMPLIANCE WITH AWS D1.3 AND SHALL BE PERFORMED BY LIGHT GAUGE WELDERS CERTIFIED BY THE GOVERNING JURISDICTION.

6. HANGERS SUPPORTED BY METAL DECKING ONLY OR METAL DECKING WITH INSULATING FILL SHALL BE ATTACHED TO STEEL BARS, 3/8" ROUND X 12" OR 1/8" X 1 1/2" x 12" FLAT, PLACED PERPENDICULAR TO FLUTES. ONLY LIGHT DUCTWORK (12" X 16" MAX.), PIPING (1 1/2" ROUND PIPING MAX), OR CEILINGS MAY BE HUNG FROM SUCH INSTALLATIONS. HANGERS MUST BE TWO FLUTES APART WHERE THEY OCCUR ON THE SAME SPAN.

METAL STUDS

1. FOR NON-LOAD BEARING METAL STUDS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FOLLOWING NOTES APPLY TO METAL STUDS INDICATED ON STRUCTURAL DRAWINGS ONLY.

2. PROVIDE LIGHT GAUGE FRAMING FORMED FROM STANDARD COMMERCIAL STEEL WITH A MINIMUM YIELD AT 33,000 PSI FOR GAUGES 18 AND LIGHTER AND 50,000 FOR GAUGES 16 AND HEAVIER. IN ADDITION, FRAMING SHALL COMPLY WITH ASTM A653 OR A1003 SECTION 2210 OF THE CALIFORNIA BUILDING CODE AND SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS OF AISI, LATEST EDITION. LIGHT GAUGE FRAMING AND ITS INSTALLATION SHALL COMPLY WITH ICC ESR 3064P.

3. WELDING OF LIGHT GAUGE FRAMING SHALL COMPLY WITH ANSI/AWS D1.3. WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY.

4. PROVIDE STUDS COMPLYING WITH ICC ESR 3064P AND MANUFACTURED BY ANY MANUFACTURER APPROVED BY THIS REFERENCED REPORT. PROVIDE STUDS OF THE FOLLOWING SECTION PROPERTIES. UNLESS NOTED OTHERWISE:

4" x 18 GA. STUDS (400S162-43)	Ixx (MIN.) = 0.892 IN^4 Sxx (MIN.)= 0.446 IN^3
6" x 18 GA. STUDS (600S162-43)	Ixx (MIN.) = 2.316 IN^4 Sxx (MIN.)= 0.772 IN^3
6" x 16 GA. STUDS (600S162-54)	Ixx (MIN.) = 2.860 IN^4 Sxx (MIN.)= 0.953 IN^3
8" x 18 GA. STUDS (800S162-43)	Ixx (MIN.) = 4.633 IN^4 Sxx (MIN.)= 1.158 IN^3
8" x 16 GA. STUDS (800S162-54)	Ixx (MIN.) = 5.736 IN^4 Sxx (MIN.)= 1.434 IN^3
10" x 16 GA. STUDS (1000S162-54)	Ixx (MIN.) = 9.950 IN^4 Sxx (MIN.)= 1.990 IN^3

5. PROVIDE UNPUNCHED TRACK WITH THICKNESS TO MATCH STUDS, UNLESS NOTED OTHERWISE, OF DIMENSIONS TO ENSURE PROPER FIT OF STUDS.

4" x 18. GA. TRACK (400T125-43)	Ixx (MIN.) = 0.716 IN^4 Sxx (MIN.)= 0.344 IN^3
6" x 18. GA. TRACK (600T125-43)	Ixx (MIN.) = 1.861 IN^4 Sxx (MIN.)= 0.604 IN^3
6" x 16. GA. TRACK (600T125-54)	Ixx (MIN.) = 2.344 IN^4 Sxx (MIN.)= 0.756 IN^3
8" x 18. GA. TRACK (800T125-43)	Ixx (MIN.) = 3.773 IN^4 Sxx (MIN.)= 0.756 IN^3
8" x 18. GA. TRACK (800T125-43)	Ixx (MIN.) = 3.773 IN^4 Sxx (MIN.)= 0.924 IN^3
8" x 16. GA. TRACK (800T125-54)	Ixx (MIN.) = 4.745 IN^4 Sxx (MIN.)= 1.158 IN^3
10" x 16. GA. TRACK (1000T125-54)	Ixx (MIN.) = 8.333 IN^4 Sxx (MIN.)= 1.634 IN^3

6. CUT FRAMING COMPONENTS, SUCH AS BRACING, SQUARELY OR AT AN ANGLE TO FIT TIGHT AGAINST ABUTTING MEMBERS. HOLD MEMBERS FIRMLY IN POSITION UNTIL PROPERLY FASTENED.

7. SPLICES IN ANY LIGHT GAUGE MEMBERS NOT SPECIFICALLY DETAILED IN THIS SET OF DRAWINGS ARE NOT ALLOWED WITH THE EXCEPTION OF TOP AND BOTTOM TRACKS OF WALLS. REFER TO DETAILS FOR SPLICE REQUIREMENTS OF WALL TRACKS.

8. PREFABRICATED PANELS SHALL BE SQUARED AND BRACED TO AVOID RACKING. LIFT PREFABRICATED PANELS IN A MANNER SO AS NOT TO CAUSE LOCAL DISTORTION OF ANY MEMBER.

9. SUBMIT SHOP DRAWINGS TO THE OWNER'S REPRESENTATIVE FOR REVIEW.

10. ALL SHEET METAL SCREWS INDICATED ON THESE DRAWINGS ARE HILTI SELF-DRILLING/SELF-PIERCING SCREWS (ICC ESR-2196) OR PRO-TWIST MARKER & DOT SELF-DRILLING SCREWS (ICC ESR 1408). INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT AND MANUFACTURER RECOMMENDATIONS

11. WHERE LIGHT GAUGE JOISTS ARE SPECIFIED, REFER TO STUD SECTIONS FOR JOIST PROPERTIES.

12. UTILITY PUNCH HOLES IN STUDS SHALL BE LOCATED AWAY FROM CONNECTIONS.

13. AXIALLY LOADED BEARING STUDS MUST BE FULLY SEATED INTO THE WALL TRACKS.

14. OPENINGS IN STUD WEBS OTHER THAN STANDARD HOLES PUNCHED BY THE MANUFACTURER ARE PROHIBITED UNLESS SPECIFICALLY DETAILED IN THIS SET OF DRAWINGS.

STRUCTURAL STEEL AND MISCELLANEOUS METAL (ALL OTHER STEEL) WELDING

1. ALL WELDING SHALL BE IN STRICT CONFORMANCE WITH THE LATEST EDITION OF AWS D1.1 AND THE CALIFORNIA BUILDING CODE WITH ALL APPLICABLE AMENDMENTS. ALL WELDED JOINTS SHALL BE PRE-QUALIFIED PER THE LATEST EDITION OF AWS D1.1. NON PRE-QUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST & PROCEDURE QUALIFICATION TEST RECORD INCLUDED PER THE LATEST EDITION OF AWS D1.1.

2. WELDING OF SHEET METAL AND METAL STUDS SHALL BE IN ACCORDANCE WITH AWS D1.3.

3. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE FULL LENGTH OF JOINT. ALL BUTT AND GROOVE WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE.

4. ALL WELDING ELECTRODES AND ELECTRODE FLUX COMBINATIONS (FILLER METAL) SHALL BE E7XTX, E7XTXX OR E70XXX (MINIMUM 70 KSI), UNLESS NOTED OTHERWISE, AND SHALL MEET THE REQUIREMENTS FOR H16 PER AISC SEISMIC PROVISIONS.

5. ALL WELDS SHALL HAVE A FILLER METAL WITH CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AVERAGE ZERO DEGREES FAHRENHEIT AND 40FT-LBS AT SEVENTY DEGREES FAHRENHEIT FOR LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) OF +50°F. FOR LAST LESS THAN + 50°F, SEE AWS D1.8 SUBCLAUSE 6.3.6. CERTIFY CONFORMANCE TO CHARPY V-NOTCH TOUGHNESS REQUIREMENTS WITH TESTS BY AN INDEPENDENT TESTING LABORATORY.

6. GMAW AND FCAW-G WELDING PROCESSES SHALL NOT BE PERMITTED WHEN WIND SPEED EXCEEDS 3 MPH.

7. WHERE WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR IDENTIFYING THE METHOD OF FABRICATION.

8. ALL SHOP WELDS SHALL BE PERFORMED BY A FABRICATOR LICENSED BY THE LOCAL JURISDICTION.

9. ALL WELDERS SHALL BE QUALIFIED FOR THE WORK THEY WILL BE PERFORMING AND SHALL HAVE CURRENT VALID CERTIFICATIONS ISSUED BY AWS AND THE GOVERNING JURISDICTION.

10. FACES OF FILLET WELDS EXPOSED TO VIEW SHALL HAVE AS-WELDED SURFACES THAT ARE REASONABLY SMOOTH AND UNIFORM. NO FINISHING OR GRINDING SHALL BE REQUIRED, EXCEPT WHERE CLEARANCES OR FIT OF OTHER ITEMS MAY SO NECESSITATE.

11. ALL PARTIAL AND FULL PENETRATION WELDS WHICH ARE EXPOSED TO VIEW SHALL BE GROUND SMOOTH AND FLUSH WITH FINISH SURFACE OF STEEL. HOLES SHALL BE FILLED WITH WELD METAL OR BODY SOLDER AND SMOOTHED BY GRINDING OR FILING.

12. CLEAN GROOVE PREPARATION THERMAL CUTS BY GRINDING.

13. WELDS SHALL BE TERMINATED AT THE END OF A JOINT IN A MANNER THAT WILL ENSURE SOUND WELDS. WHENEVER NECESSARY THIS SHALL BE DONE BY USE OF EXTENSION BARS AND RUN OFF TABS.

14. A WRITTEN "WELDING PROCEDURE SPECIFICATION" (WPS), PER AWS D1.1, SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR, AND REVIEWED BY THE OWNER'S REPRESENTATIVE AND BUILDING DEPARTMENT. THE WPS SHALL CONTAIN ALL THE NECESSARY INFORMATION REQUIRED BY THE CODE, THE SPECIFICATIONS, AND ANY OTHER INFORMATION NECESSARY TO PRODUCE WELDS THAT ARE IN COMPLIANCE WITH THESE REQUIREMENTS. THE WPS SHALL INCLUDE THE WELDING PARAMETERS RECOMMENDED BY THE ELECTRODE MANUFACTURER. ALL WELDERS AND INSPECTORS SHALL ADHERE TO THE WPS AND SHALL RETAIN A COPY.

15. PROVISION FOR WELDING HEAT EFFECTS: A SEQUENCE OF FIELD WELDING SHALL BE PLANNED TO MINIMIZE LOCKED IN STRESSES AND DISTORTION AND SHALL BE SUBMITTED TO THE ENGINEER AT TIME OF SHOP DRAWING SUBMITTAL. THE OWNER'S REPRESENTATIVE SHALL APPROVE ANY PROPOSED DEVIATIONS FROM THE DETAILS SHOWN ON THE DRAWINGS. THE PROCEDURES AND THE DETAILS USED SHALL RESULT IN COMPLETED CONNECTIONS, WHICH ARE IN FULL COMPLIANCE WITH THE INTENT OF THE DETAILS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. THE SEQUENCE OF FIELD WELDING, BOTH IN THE JOINTS AND FRAMES AS A WHOLE, SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR APPROVAL. NO FIELD WELDING SHALL BE PERFORMED PRIOR TO BUILDING DEPARTMENT APPROVAL.

STRUCTURAL STEEL AND MISCELLANEOUS METAL (ALL OTHER STEEL)

1. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE LATEST EDITION OF AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS. WHERE THE STRUCTURAL STEEL IS EXPOSED AND INDICATED AS 'AESS' ON PLANS OR DETAILS, FABRICATION AND ERECTION SHALL ALSO BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.

2. GENERAL CONTRACTOR TO DETERMINE SCOPE OF WORK FOR BOTH STRUCTURAL STEEL AND MISCELLANEOUS METAL SUBCONTRACTORS (IF MULTIPLE SUBCONTRACTORS ARE USED). THE COMBINED SCOPE OF WORK FOR ALL SUBCONTRACTORS SHALL INCLUDE ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL WORK SHOWN ON THE CONTRACT DRAWINGS.

3. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION AS INDICATED BELOW UNLESS NOTED OTHERWISE:

ALL WIDE FLANGE AND WT SHAPES	A992, GRADE 50
STEEL ANGLES AND CHANNELS	A36 UNO
ALL OTHER STRUCTURAL SECTIONS	A572, GRADE 50
DECK CLOSURE PLATES AND SHIM MATERIALS	A36
BEAM SHEAR PLATES, STIFFENER PLATES ALL OTHER PLATES	A572, GRADE 50 UNO
HSS (RECTANGULAR, SQUARE OR ROUND)	A500, GRADE C
STEEL PIPE (NOT LABELED AS HSS)	A53, GRADE B
STAINLESS STEEL SHAPES, PLATES AND BARS	A276
BOLTS	F3125, GRADE A325 OR GRADE F1852
MACHINE BOLTS (USE ONLY WHERE INDICATED)	A307
ANCHOR BOLTS	F1554, GRADE 55 S1, HEAVY HEX HEAD, UNO SEE COLUMN SCHEDULES AND FRAME ELEVATIONS
THREADED AND HANGER ROD	A36
NUTS FOR BOLTS AND MACHINE BOLTS	A563
HARDENED (FLAT OR BEVELED) WASHERS	F436
PLAIN, UNHARDENED WASHERS	F844

4. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM F3125 BOLTS. HIGH STRENGTH BOLTS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANES (I.E. GRADE A325-N OR F1852-N) UNLESS NOTED OTHERWISE. PROVIDE FRICTION TYPE HIGH STRENGTH BOLTS (I.E. SLIP CRITICAL) ONLY WHERE NOTED ON PLANS

5. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL, MISCELLANEOUS METAL AND FASTENERS THAT ARE EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.

6. WHEN FABRICATING BEAMS, PLACE NATURAL CAMBER UP. PROVIDE UPWARD CAMBER TO ALL MEMBERS SHOWN TO HAVE CAMBER. AMOUNT MEASURED IN THE FIELD PRIOR TO ERECTION SHALL NOT DEVIATE BY MORE THAN ALLOWED BY THE AISC SPECIFICATIONS. DO NOT CAMBER MEMBERS OCCURRING BELOW ELEVATOR ENTRANCE DOORS.

7. SPLICE MEMBERS ONLY WHERE INDICATED.

8. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE REVIEW BEFORE FABRICATION. SUBMITTALS SHALL BE IN SIZES COMMENSURATE WITH A TWO WEEK TURNAROUND TIME. A MAXIMUM OF 250 SHOP DRAWINGS EVERY TWO WEEKS IS PERMITTED UNLESS WRITTEN AUTHORIZATION IS PROVIDED BY THE ARCHITECT TO CHANGE THIS LIMIT.

9. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED FREE OF RUST, LOOSE MILL SCALE AND OIL.

10. BOLT HOLES IN STEEL SHALL BE STANDARD HOLES, 1/16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE FOR 7/8"ø BOLTS AND SMALLER AND 1/8" LARGER IN DIAMETER THAN NOMINAL SIZE FOR 1"ø AND LARGER BOLTS, UNLESS NOTED OTHERWISE. BOLT HOLES IN BASE PLATES MAY BE OVERSIZED PER AISC MANUAL TABLE 14-2 IF WASHERS ARE PROVIDED IN ACCORDANCE WITH THIS TABLE.

11. BOLTS SHALL BE SPACED AT 3" O.C. UNLESS NOTED OTHERWISE. THE DISTANCE FROM THE CENTER OF A STANDARD HOLE TO THE EDGE OF A CONNECTING PART IN ANY DIRECTION SHALL NOT BE LESS THAN 1 1/2" U.N.O. THE EDGE DISTANCE MAYBE 1 1/4" AT THE ENDS OF BEAM CONNECTION ANGLES AND SHEAR END PLATES. THE DISTANCE FROM CENTER OF AN OVERSIZED OR SLOTTED HOLE TO THE EDGE OF A CONNECTING PART SHALL NOT BE LESS THAN THAT REQUIRED FOR A STANDARD HOLE TO THE EDGE OF A CONNECTED PART PLUS THE APPLICABLE INCREMENT C/2 FROM AISC TABLE J3.5.

12. ALL STRUCTURAL STEEL SURFACES TO BE WELDED OR HIGH-STRENGTH BOLTED, TO BE ENCASED IN CONCRETE OR TO RECEIVE SPRAY-APPLIED FIREPROOFING SHALL BE LEFT UNPAINTED.

13. DO NOT PLACE UN-PROTECTED STEEL IN DIRECT CONTACT WITH ANY SOIL OR FILL MATERIAL. STEEL THAT IS TO BE PERMANENTLY PLACED BELOW GRADE OR FILL SHALL BE PROTECTED WITH EITHER A MINIMUM OF 3" OF CONCRETE ENCASEMENT OR A CORROSION-INHIBITING COATING THAT PROVIDES CLASS 1 CORROSION PROTECTION

CONCRETE

1. ALL CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED.

2. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' AND ACI 318 WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.

3. CONCRETE MIXING OPERATION, ETC., SHALL CONFORM TO ASTM C94.

4. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 304 AND CONTRACT DOCUMENTS.

5. STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

LOCATION	STRENGTH (f'c) AT 28 DAYS UNO[A]	EXPOSURE CLASS [B,C]				MAX W/C RATIO	NMAS[D]
FOUNDATIONS	4,000 PSI	F0	S1	W0	C1	0.5	1"
SLAB-ON-GRADE	4,000 PSI	F0	S1	W0	C1	0.45	3/4"
CURBS AND PADS	4,000 PSI	F0	S1	W0	C1	0.45	3/4"
SURGE TANK	5,000 PSI	F0	S1	W2	C2	0.40	3/4"
WALLS	4,000 PSI	F0	S1	W0	C1	N/A	3/4"

A. ALL CONCRETE IS NORMAL WEIGHT UNO. REFER TO NOTE 8 FOR DEFINITION OF NORMAL WEIGHT.
B. EXPOSURE CLASS IS AS DEFINED BY ACI 318 TABLE 19.3.1.1.
C. PROVIDE CEMENTITIOUS MATERIAL TYPES AS LIMITED BY EXPOSURE CLASS PER ACI 318. TABLE 19.3.2.1.
D. NMAS = NOMINAL MAXIMUM AGGREGATE SIZE

6. CONTRACTOR IS RESPONSIBLE FOR CAREFULLY COORDINATING AND ACCURATELY PLACING CONCRETE WHEN MULTIPLE GRADES OF CONCRETE ARE ON THE JOBSITE AT ANY ONE TIME.

7. CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED LABORATORY. THE DESIGN SHALL BE STAMPED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT ALLOWED.

8. NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33. DRY DENSITY OF NORMAL WEIGHT CONCRETE SHALLL NOT EXCEED 145 PCF.

9. NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 6000 PSI. USE "SIKA GROUT 212" OR "MASTERFLOW 928").

10. FORMS FOR CONCRETE SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS SHOWN ON THE DRAWINGS.

11. PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING STRUCTURAL MEMBERS AS REQUIRED TO PREVENT AIR POCKETS AND OR "HONEYCOMB" UNDER OR AROUND THE EXISTING MEMBERS. CONCRETE CAST WITH AIR POCKETS AND OR "HONEYCOMB" UNDER OR AROUND THE MEMBERS IS NOT ACCEPTABLE.

12. REFER TO PROJECT SPECIFICATIONS FOR CONCRETE FINISHING REQUIREMENTS. THE MINIMUM CONCRETE SLAB THICKNESS SHALL BE AS SHOWN ON PLANS. OVERPOUR MAY BE REQUIRED DUE TO FORMING AND STRUCTURE DEFLECTION.

13. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN BEAMS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE CONSTRUCTION DRAWINGS

14. THOROUGHLY CLEAN AND ROUGHEN ALL EXISTING CONCRETE, CONCRETE PREVIOUSLY POURED AND HARDENED AND MASONRY SURFACES TO RECEIVE NEW CONCRETE. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4" UNLESS NOTED OTHERWISE.

15. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT PLACED IN CAST-IN-PLACE OR CONCRETE:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
#5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2"
#6 THROUGH # 18 BARS 2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
BEAMS, COLUMNS AND WALLS:
PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS:
#3 THROUGH #11 1 1/2"

16. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

17. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.

18. CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED ONE THIRD OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.

19. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 IN. CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.

20. CURING COMPOUNDS USED ON CONCRETE TO RECEIVE A FINISH SHALL BE APPROVED BY THE FINISH APPLICATOR BEFORE USE.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
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CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER — JOHN C. FLYNN — No. 17422 — STRUCTURAL — STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
GENERAL NOTES

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.
S-002

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/4/2025 12:11:54 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

ISSUED: SEPTEMBER 9, 2025

INSPECTION / TESTING

1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS SHALL BE RETAINED BY THE OWNER TO PERFORM THE TESTS AND INSPECTION AS REQUIRED BY SECTION 1704/1704A OF THE CALIFORNIA BUILDING CODE. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE SPECIAL INSPECTOR TO THE SITE OR FABRICATION SHOPS AND SHALL FURNISH SAMPLES OF MATERIALS FOR TESTING AS REQUESTED BY THE TESTING AGENCY AND THE GOVERNING CODE.

2. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

3. PROVIDE CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR ITEMS NOTED IN "DSA-103 TEST AND INSPECTION FORM", AS REQUIRED PER THE CHAPTER 17A OF THE CALIFORNIA BUILDING CODE AND ALL APPLICABLE AMENDMENTS, UNLESS NOTED OTHERWISE IN SPECIFICATIONS.

4. SPECIAL INSPECTIONS MAY NOT BE REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL OR GOVERNING AGENCY HAVING JURISDICTION OVER THE PROJECT TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

5. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM ELEMENT SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER'S REPRESENTATIVE, PRIOR TO THE COMMENCEMENT OF THE WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING INFORMATION:

   A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

   B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.

   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSONS EXERCISING SUCH CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.

6. SPECIAL INSPECTIONS FOR THE STRUCTURAL STEEL PORTIONS OF THE LATERAL FORCE RESISTING SYSTEM SHALL ALSO COMPLY WITH THE REQUIREMENTS OF AISC 341.

7. NON-DESTRUCTIVE WELD TESTING: ULTRASONIC TESTING IS REQUIRED FOR ALL (100%) COMPLETE PENETRATION WELDS AND 25% OF PARTIAL PENETRATION WELDS. TESTING SHALL BE PERFORMED 24 HOURS OR MORE AFTER COMPLETION OF WELDING. WELD BACKING REMOVAL AREAS AND FILLET WELDS SHALL BE SUBJECTED TO MAGNETIC PARTICLE EXAMINATION.

8. BASE METAL THICKER THAN 1-1/2", SUBJECTED TO THROUGH THICKNESS WELD SHRINKAGE STRAINS, SHALL BE ULTRASONICALLY TESTED DIRECTLY BEHIND SUCH WELDS 48 HOURS OR MORE AFTER COMPLETION OF WELDING.

9. FOR BOLTED CONNECTIONS NOT USING TC (TWIST OFF) BOLTS OR LOAD INDICATOR WASHERS, TEST BY CALIBRATED TORQUE WRENCH A MINIMUM OF 10% OF HIGH STRENGTH BOLTS (MINIMUM ONE (1) BOLT) AT EACH SHEAR CONNECTION.

10. TEST A MINIMUM OF 25% OF BEAM-TO-COLUMN CJP GROOVE WELDS AND 10% OF ALL OTHER WELDS BY MAGNETIC PARTICLE (ASTM E709) METHOD. MAGNETIC PARTICLE TESTING SHALL ALSO BE PERFORMED AT THE ENDS OF BEAM-TO-COLUMN JOINTS WHERE WELD TABS HAVE BEEN REMOVED. MAGNETIC PARTICLE TESTING OF CONTINUITY PLATE WELD TAB REMOVAL SITES IS NOT REQUIRED.

11. APPROVAL BY THE INSPECTOR OF MATTERS NOT SPECIFICALLY CONSTRUCTED PER THE APPROVED DRAWINGS DOES NOT MEAN THE FAILURE TO COMPLY WITH THE CONSTRUCTION DOCUMENTS HAS BEEN ACCEPTED. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.

12. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER WITHIN SEVEN DAYS OF WHEN THE INSPECTION WAS MADE OR WHEN THE TESTING WAS PERFORMED.

13. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY INSPECTION OR TESTING WHICH DOES NOT COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

ADHESIVE ANCHORS AND DOWELS

1. ANCHORS AND DOWELS INSTALLED INTO CONCRETE. GROUT-FILLED MASONRY (CMU) OR UNREINFORCED BRICK MASONRY (URM) PER SCHEDULES BELOW SHALL BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND PER MANUFACTURER'S RECOMMENDATIONS.

CONCRETE		
MANUFACTURER	ADHESIVE TYPE	
	FAST CURE	SLOW CURE
HILTI	HIT HY-200 V3 (ICC ESR 4868)	HIT RE-500 V3 (ICC ESR 3814)
SIMPSON STRONG-TIE	AT-XP (IAPMO UES ER 263)	SET-3G (ICC ESR 4057)
DEWALT	AC200+ (ICC ESR 4027)	PURE110+ (ICC ESR 3298)

2. MANUFACTURER'S FIELD REPRESENTATIVE SHALL PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK; ONLY PROPERLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION.

3. INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICAL ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 318.

4. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS.

5. 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 DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.

6. CENTER BAR IN THE HOLE AND WEDGE TIGHT WITH WOODEN WEDGES TO HOLD IT IN PLACE UNTIL THE ADHESIVE SETS.

7. PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN APPROVED DETAILS

8. WHERE INSTALLATION IS OBSERVED BY A REGISTERED DEPUTY INSPECTOR, NO FURTHER TESTING IS REQUIRED UNLESS NOTED OTHERWISE ON APPROVED DRAWINGS.

9. WHERE TESTING IS REQUIRED, ANCHORS SHALL BE PROOF TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.

10. UNLESS NOTED OTHERWISE, ANCHOR TEST FREQUENCY SHALL BE AS FOLLOWS:
    A. 10% FOR SILL PLATE ANCHORS
    B. 50% OR ALTERNATE BOLTS IN A GROUP FOR NONSTRUCTURAL COMPONENT ANCHORS
    C. 100% FOR ALL ANCHORS USED IN STRUCTURAL APPLICATIONS

11. TEST ANCHORS IN CONCRETE USING THE 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 SAME TORQUE MEASURED WITH A TORQUE WRENCH, AND THEN APPLY 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. UNLESS NOTED OTHERWISE, TEST ANCHORS PER SCHEDULE BELOW WHERE CONCRETE EDGE DISTANCE IS GREATER THAN 1.5 TIMES EFFECTIVE EMBED AND ANCHOR SPACING IS GREATER THAN 3 TIMES EFFECTIVE EMBED OR UNLESS NOTE OTHERWISE ON APPROVED DRAWINGS:

HILTI HIT HY-200 ADHESIVE EMBED AND TENSION TEST LOAD			
ANCHOR DIAMETER (IN)	EFFECTIVE EMBED (IN)	PULL TEST LOAD (LBS)	
		NWC 4000 PSI	LWC 4000 PSI
3/8	3 3/8	2,330	1,050
1/2	4 1/2	5,060	2,280
5/8	5 5/8	8,160	3,680
3/4	6 3/4	11,480	5,740
7/8	7 7/8	14,120	7,980
1	9	17,490	10,220
1 1/4	11 1/2	25,410	15,290
#3	2 3/4	2,200	990
#4	3 3/8	3,790	1,740
#5	4 1/2	5,960	2,720
#6	4 3/4	8,340	3,910
#7	5 5/8	9,620	4,310
#8	6 3/4	12,500	5,960
#9	10 1/8	17,860	7,820
#10	11 1/2	20,840	10,420

STRUCTURAL OBSERVATION

1. PERIODIC STRUCTURAL OBSERVATION WILL BE PROVIDED BY JOHN A. MARTIN & ASSOCIATES INC., STRUCTURAL ENGINEERS, PER SECTION 1710 OF THE CALIFORNIA BUILDING CODE AND ALL APPLICABLE AMENDMENTS, FOR THE WORK INDICATED BELOW. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS BEFORE REQUIRED OBSERVATIONS. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERING MATERIAL TO FACILITATE OBSERVATION.

   INITIAL PLACING OF CONCRETE
   INITIAL PLACING OF REINFORCING
   INITIAL PLACING OF STRUCTURAL STEEL
   INITIAL PLACING OF METAL DECK
   INITIAL PLACING OF ANCHOR BOLTS
   INITIAL PLACING OF MECHANICAL AND ADHESIVE ANCHORS

2. STRUCTURAL OBSERVATIONS PERFORMED BY JOHN A. MARTIN & ASSOCIATES CONSIST OF THE VISUAL OBSERVATION OF THE MAJOR ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE REQUIREMENT/RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE SPECIAL INSPECTOR.

3. THE ENGINEER OF RECORD SHALL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.

POWDER ACTUATED FASTENERS (SHOT PINS)

1. POWDER ACTUATED FASTENERS INTO STEEL SHALL BE HILTI X-U FASTENERS (ESR-2269), DEWALT POWDER ACTUATED FASTENERS (ESR-2024), OR RAMSET SP FASTENERS (ESR-1799). INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS. FASTENERS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE POINT OF THE PIN PENETRATES THROUGH THE STEEL BASE MATERIAL WHEN CONNECTING TO STEEL LESS THAN 3/4 IN THICKNESS. FASTENERS LENGTH SHALL PROVIDE MINIMUM POINT PENETRATION OF 1/2" WHEN CONNECTING TO STEEL 3/4" OR THICKER IN THICKNESS U.N.O.

2. POWDER ACTUATED FASTENERS INTO CONCRETE SHALL BE HILTI X-U FASTENERS (ESR-2269), DEWALT POWDER ACTUATED FASTENERS (ESR-2024), OR RAMSET SP STEPPED SHANK FASTENERS (ESR-1799). INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE FASTENERS WITH SUFFICIENT LENGTH TO PROVIDE 1-1/2" MINIMUM PENETRATION INTO CONCRETE U.N.O.

3. FASTENERS SHALL NOT BE INSTALLED UNTIL THE CONCRETE HAS REACHED ITS DESIGNATED STRENGTH.

4. FASTENERS SHALL NOT BE INSTALLED IN CONCRETE WITH THICKNESS LESS THAN THREE TIMES THE PENETRATION REQUIRED, EXCEPT 1-1/2" PENETRATION IN 3-1/4" THICK CONCRETE FILL OVER METAL DECK IS ACCEPTABLE.

5. PROVIDE A MINIMUM OF 3" BETWEEN THE EDGE OF CONCRETE TO CENTER OF ANCHOR.

6. FASTENERS IN THE UNDERSIDE OF CONCRETE FILL OVER METAL DECK SHALL BE PLACED IN THE LOW FLUTES ONLY.

7. FASTENERS SHALL BE INSTALLED, BY A PRE-QUALIFIED OPERATOR, ACCORDING TO THE APPLICABLE ICC RESEARCH REPORT AND TESTED AS FOLLOWS: INSPECTOR SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENERS INSTALLATION. A TEST PULL-OUT LOAD OF NOT LESS THAN TWICE THE APPLICABLE ALLOWABLE LOAD PER ICC TABLES SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN (NOT APPLICABLE TO PINS INSTALLED INTO STEEL). RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 20 PINS. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL OF THE INSTALLATIONS MUST BE TESTED AND FAILED PINS REPLACED AT CONTRACTOR'S EXPENSE.

8. WHEN INSTALLING POWDER DRIVEN PINS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.

MECHANICAL ANCHORS

1. 'MECHANICAL ANCHORS' REFER TO POST-INSTALLED EXPANSION, UNDERCUT, HEAVY DUTY SLEEVE, OR SCREW ANCHORS INTO CONCRETE.

2. WHEN A SPECIFIC MECHANICAL ANCHOR PRODUCT, DIAMETER, AND EMBEDMENT IS CALLED OUT ON PLANS/DETAILS, THE CONTRACTOR SHALL PROVIDE AND INSTALL IT IN ACCORDANCE WITH THE LATEST ICC/IAPMO REPORT AND MANUFACTURER RECOMMENDATIONS. CONTRACTOR MAY SUBMIT SUBSTITUTIONS REQUESTS FOR SEOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT. SUBSTITUTION REQUESTS SHALL INCLUDE RELEVENT PRODUCT DATA, CODE APPROVALS, AND CALCULATIONS TO JUSTIFY THAT THE PERFORMANCE OF THE SUBSTITUTE IS EQUAL TO OR BETTER THAN THE ANCHOR BEING SPECIFIED.

3. WHERE THE PLANS/DETAILS GENERICALLY CALL FOR A MECHANICAL ANCHOR WITHOUT MENTION OF A SPECIFIC PRODUCT, AN ANCHOR PRODUCT SHALL BE SELECTED PER SCHEDULE BELOW AND INSTALLED IN ACCORDANCE WITH THE LATEST ICC/IAPMO REPORTS AND MANUFACTURER RECOMMENDATIONS. THE CONTRACTOR SHALL CONFIRM ANCHOR SELECTION, DIAMETER, AND EMBEDMENT WITH SEOR PRIOR TO PROCUREMENT.

CONCRETE		
MANUFACTURER	ANCHOR TYPE	
	EXPANSION	SCREW
HILTI	KB-TZ2 ICC ESR4266	KH-EZ ICC ESR 3027
SIMPSON STRONG-TIE	STRONG BOLT 2 ICC ESR 3037	TITEN HD ICC ESR 2713 IAPMO ER 0493

4. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO MOISTURE. PROVIDE CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.

5. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

6. 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 DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.

7. PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN APPROVED DETAILS

8. WHERE INSTALLATION TORQUE IS PROVIDED BY MANUFACTURER AND INSTALLATION IS OBSERVED BY A REGISTERED DEPUTY INSPECTOR, NO FURTHER TESTING IS REQUIRED UNLESS NOTED OTHERWISE ON PLAN.

9. WHERE TESTING IS REQUIRED, ANCHORS SHALL BE PROOF TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.

10. UNLESS NOTED OTHERWISE, ANCHOR TEST FREQUENCY SHALL BE AS FOLLOWS:
    A. 10% FOR SILL PLATE ANCHORS
    B. 50% OR ALTERNATE BOLTS IN A GROUP FOR NONSTRUCTURAL COMPONENT ANCHORS
    C. 100% FOR ALL ANCHORS USED IN STRUCTURAL APPLICATIONS

11. TEST ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES CALCULATED BELOW:

    A. TORQUE WRENCH METHOD: TEST ANCHORS TO THE INSTALLATION TORQUE LOAD WITHIN ONE-QUARTER TURN OF THE NUT FOR SCREW ANCHORS AND ONE-HALF TURN OF THE NUT FOR ALL OTHER ANCHORS.

HILTI KH-EZ ANCHOR EMBED AND TEST LOADS				
ANCHOR DIAMETER (IN)	NOMINAL EMBED (IN)	EFFECTIVE EMBED (IN)	PULL TEST LOAD (LBS)	INSTALLATION TORQUE (FT-LBS)
			NWC 4000 PSI	NWC 4000 PSI
1/4	1 5/8 2 1/2	1.18 1.92	260 900	18
3/8	1 5/8 2 1/8 2 1/2 3 1/4	1.11 1.54 1.86 2.5	560 1,250 1,660 2,590	40
1/2	2 1/4 3 4 1/4	1.52 2.16 3.22	1,230 2,080 3,785	45
5/8	3 1/4 5	2.39 3.88	2,420 5,005	85
3/4	4 6 1/4	2.92 4.84	3,270 6,975	95

12. 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.

13. 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.

AGENCY APPROVAL DSA# 03-124689

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NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
GENERAL NOTES

DRAWN BY: JAMA JOB NUMBER: 23024.02

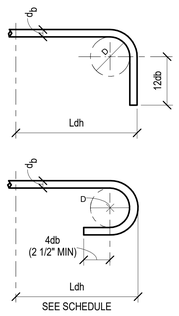
SHEET NO.
S-003

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/4/2025 12:11:55 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

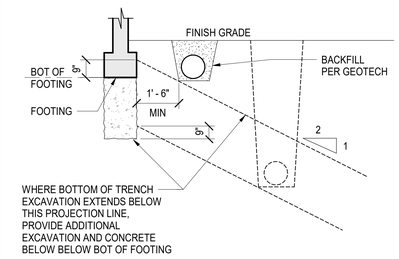
ISSUED: SEPTEMBER 9, 2025



STANDARD HOOK DEVELOPMENT LENGTH (Ldh)		
BAR SIZE	f'c=4000 PSI	f'c=6000 PSI
#3	8	6
#4	10	8
#5	12	10
#6	15	12
#7	17	14
#8	19	16
#9	22	18
#10	25	20
#11	27	22
#14	33	27

NOTES:
1. ALL BENDS SHALL BE MADE COLD
2. DEVELOPMENT LENGTHS SPECIFICALLY NOTED ON PLANS SHALL GOVERN OVE TABULATED VALUES. WHERE NO DEVELOPMENT LENGTH IS SHOWN, THESE TABULATED VALUES MAY BE USED.
3. TABULATED VALUES ARE IN INCHES AND ONLY APPLY TO UNCOATED, GRADE 60 REINFORCING IN NORMAL WEIGHT CONCRETE. FOR ALL OTHER REINFORCING, THE FOLLOWING INCREASES SHALL BE APPLIED CUMMULATIVELY TO THE TABULATED VALUES UNLESS NOTED OTHERWISE ON PLAN:
   A. 1.2 x Ldh FOR EPOXY/ZINC/RESIN COATED BARS
   B. 1.33 x Ldh FOR BARS CAST IN LIGHTWEIGHT CONCRETE
   C. 'fy'/60 x Lhd FOR REBAR OTHER THAN GRADE 60 WHERE 'fy' IS THE MINIMUM YIELD STRESS OF THE BAR
4. HOOKED BARS SHALL BE DEVELOPED, BEYOND THE SCHEDULED MINIMUM, TO THE OPPOSITE FACE OR UNTIL AN OBSTRUCTION IS REACHED UNLESS SPECIFIALLY DETAILED OTHERWISE.
5. "D' SHALL BE COMPUTED AS FOLLOWS:
   #3 TO #8 = 6db
   #9 TO #11 = 8db
   #14 AND #18 = 10db

STANDARD HOOK BAR BEND AND DEVELOPMENT FOR BARS IN TENSION
NTS — 3

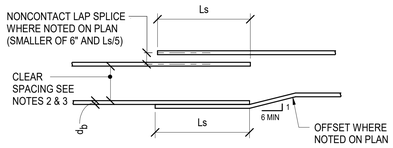


PIPE TRENCHES PARALLEL TO FOOTING
NTS — 1

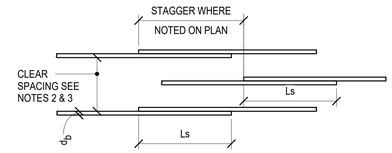
BAR SPLICE LENGTH SCHEDULE (Ls)												
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI		f'c=6000 PSI		f'c=7000 PSI		f'c=8000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	28	22	25	19	22	17	20	16	19	14	18	14
#4	38	29	32	25	29	23	27	21	25	19	23	18
#5	47	36	41	31	36	28	33	25	31	24	29	22
#6	56	43	49	37	44	33	40	31	37	28	35	27
#7	81	63	70	54	63	49	58	45	54	41	50	39
#8	93	72	81	62	72	56	66	51	61	47	57	44
#9	105	81	91	70	81	63	74	57	69	53	64	50
#10	118	91	102	79	92	71	84	64	77	60	72	56
#11	131	101	114	87	102	78	93	71	86	66	80	62
#14	SEE NOTE #12											
#18	SEE NOTE #12											

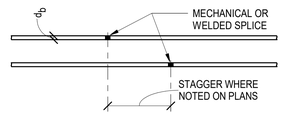
TENSION DEVELOPMENT LENGTH SCHEDULE (Ld)												
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI		f'c=6000 PSI		f'c=7000 PSI		f'c=8000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	22	17	19	15	17	13	16	12	14	12	14	12
#4	29	22	25	19	23	17	21	16	19	15	18	14
#5	36	28	31	24	28	22	26	20	24	18	22	17
#6	43	33	37	29	34	26	31	24	28	22	27	21
#7	63	48	54	42	49	38	45	34	41	32	39	30
#8	72	55	62	48	56	43	51	39	47	36	44	34
#9	81	62	70	54	63	48	57	44	53	41	50	38
#10	91	70	79	61	71	54	64	50	60	46	56	43
#11	101	78	87	67	78	60	71	55	66	51	62	48
#14	121	93	105	81	94	72	86	66	79	61	74	57
#18	161	124	140	108	125	96	114	88	106	81	99	76

NOTES:
1. DEVELOPMENT LENGTHS OR LAP SPLICES, WHEN NOTED ON PLAN, SHALL GOVERN OVER TABULATED VALUES. WHERE NO DEVELOPMENT LENGTH OR LAP LENGTH IS SHOWN, THESE TABULATED VALUES MAY BE USED.
2. TABULATED VALUES ARE IN INCHES AND ONLY APPLY TO UNCOATED, GRADE 60 REINFORCING IN NORMAL WEIGHT CONCRETE MEETING EITHER OF THE FOLLOWING REQUIREMENTS:
   A. CLEAR COVER NOT LESS THAN d_b AND CLEAR SPACING NOT LESS THAN d_b WITH STIRRUPS OR TIES THROUGHOUT L_d
   B. CLEAR COVER NOT LESS THAN d_b AND CLEAR SPACING NOT LESS THAN $2d_b$ WITHOUT STIRRUPS OR TIES.
3. FOR REINFORCING THAT DO NOT MEET THE CONDITIONS OF NOTE #2, THE FOLLOWING INCREASES SHALL BE APPLIED CUMULATIVELY TO THE TABULATED VALUES UNLESS NOTED OTHERWISE ON PLAN:
   A. 1.5 x (Ld AND Ls) FOR CLEAR COVER OR CLEAR SPACING LESS THAN THOSE NOTED
   B. 1.5 x (Ld AND Ls) FOR EPOXY/ZINC/RESIN COATED BARS
   C. 1.33 x (Ld AND Ls) FOR BARS CAST IN LIGHTWEIGHT CONCRETE
   D. 'fy'/60 x (Ld AND Ls) FOR REBAR OTHER THAN GRADE 60 WHERE 'fy' IS THE MINIMUM YIELD STRESS OF THE BAR
4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BARS.
5. OTHER BARS INCLUDE VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BARS.
6. WHEN LAP SPLICING DIFFERENT SIZE BARS, LAP LENGTH FOR THE SMALLER BAR MAY BE USED UNLESS NOTED OTHERWISE ON PLAN.
7. AT CONTRACTOR'S OPTION, A WELDED SPLICE OR APPROVED MECHANICAL COUPLER MAY BE USED IN LIEU OF A LAP SPLICE.
8. LAP SLICES FOR #14 AND #18 BARS ARE NOT PERMITTED. PROVIDE A WELDED SPLICE OR APPROVED MECHANICAL COUPLER.

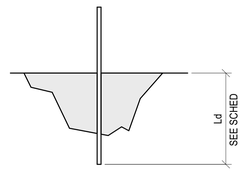


TYPICAL LAP SPLICE



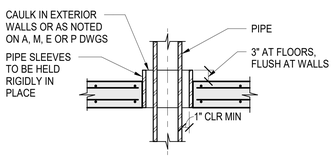


STAGGERED SPLICING

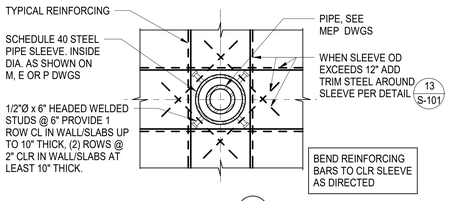


DEVELOPMENT LENGTH
STRAIGHT BAR

CONCRETE REINFORCING DEVELOPMENT LENGTH AND SPLICE LENGTH SCHEDULE
NTS — 11



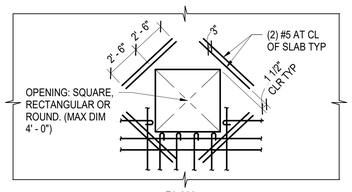
SECTION 14B



PLAN 14A

NOTE:
THIS DETAIL APPLIES TO INDIVIDUAL PIPE SLEEVE LOCATIONS ONLY WHEN SLEEVES ARE LESS THAN 3 SLEEVE DIAMETERS APART AND/OR 2 OR MORE SLEEVES ARE LINED UP, SPECIAL REINFORCING MAY BE NEEDED. SEE OTHER DETAILS OR CONSULT THE ENGINEER. SLEEVES GREATER THAN 12" SHALL BE REINFORCED AS WALL OPENING.

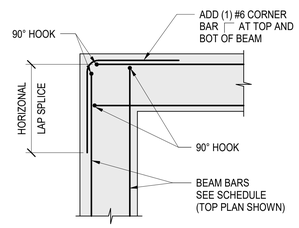
TYP REINFORCING AT WALL AND SLAB PIPE SLEEVE
NTS — 14



PLAN

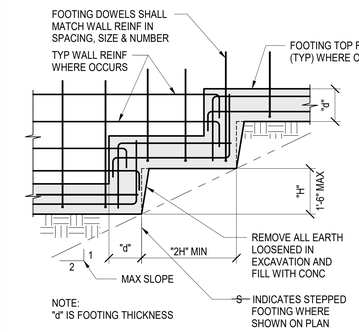
NOTES:
1. ALL TOP AND BOTTOM SLAB BARS INTERRUPTED BY OPENING SHALL BE REPLACED BY ADDITIONAL REINFORCING EQUAL TO THAT INTERRUPTED. PLACE HALF OF THE ADDITIONAL REINFORCING ON EACH SIDE OF OPENING AND EXTEND SAME LENGTH AS REQUIRED FOR BAR LAP OF INTERRUPTED REINFORCING.
2. BOXED OUT OPENINGS, BOXED RECESSES AND PIPE SLEEVE CLUSTERS SHALL BE TREATED AS FRAMED SLAB OPENINGS.

REINFORCING AROUND STRUCTURAL SLAB OPENINGS
NTS — 13



PLAN

REINFORCING AT CORNER FOOTING
NTS — 17



NOTE:
"d" IS FOOTING THICKNESS

TYP STEPPED WALL FOOTING
NTS — 16

AGENCY APPROVAL DSA# 03-124689

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.
S-101
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt
DATE PLOTTED: 3/4/2025 12:11:56 PM
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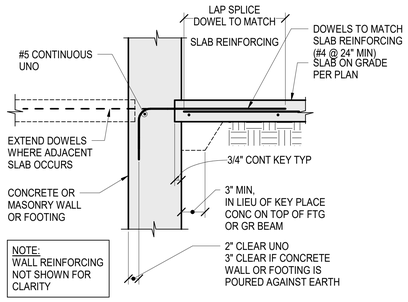
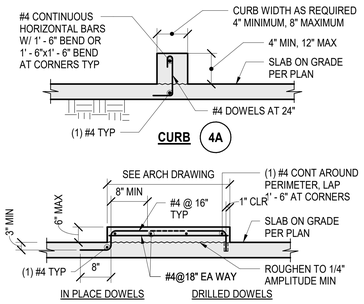


DOWELS FOR SLAB ON GRADE

NTS

5

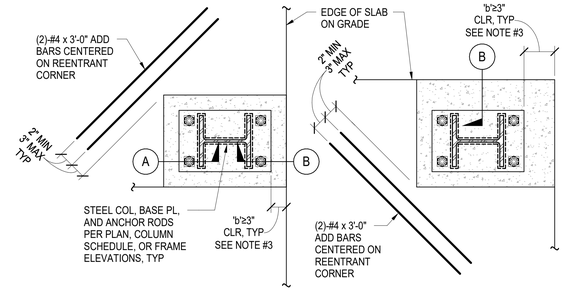


NOTES:
1. SEE ARCH FOR SIZE AND LOCATION OF CURBS
2. PROVIDE INSERTS AS REQUIRED BY ARCH & MECH DRAWINGS
3. SLAB REINFORCING NOT SHOWN.
4. SEE CURB DETAIL FOR #4 HORIZONTAL BAR REQUIREMENTS

CONCRETE CURBS AND ISLANDS

NTS

4

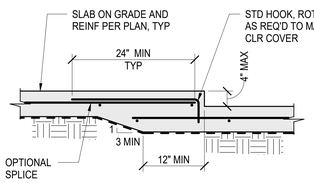


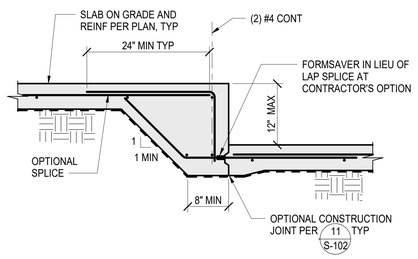
NOTES:
1. FILL BLOCKOUT NO SOONER THAN THE GREATER OF 7 DAYS AFTER SLAB ON GRADE PLACEMENT OR PLACEMENT OF THE FINAL ELEVATED DECK/SLAB. FILL BLOCKOUT USING THE SAME CONCRETE MIX AS SLAB ON GRADE.
2. PRIOR TO SLAB ON GRADE PLACEMENT CONTRACTOR TO COORDINATE WITH ARCHITECTURAL FLOORING DETAILS TO CONFIRM COMPATIBILITY WITH BLOCKOUT SIZES AND/OR JOINT LOCATIONS.
3. WHEN "b"≥6" FORM AND CAST EDGE WITH SLAB-ON-GRADE. WHEN 12"≤"b"≤24" PROVIDE ADDT'L REINF PER DETAIL 'B'. WHEN "b"≥24" PROVIDE TYPICAL SLAB ON GRADE REINFORCING.

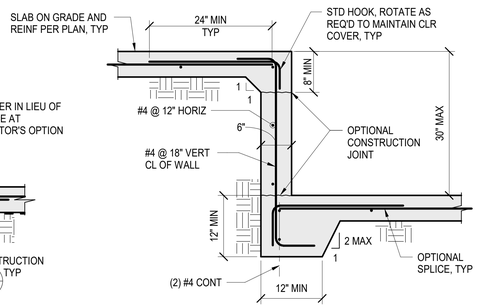
STEEL COLUMN ISOLATION JOINT

NTS

1





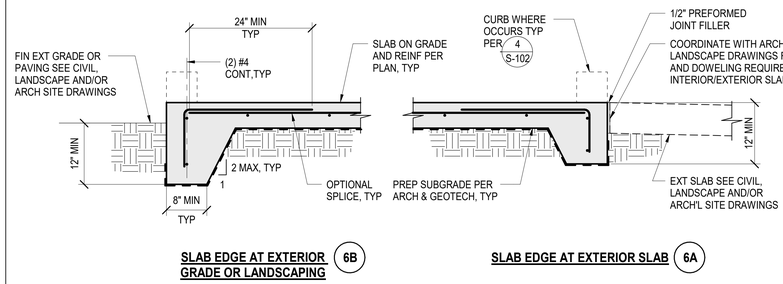


NOTE:
1. REFER TO ARCH DRAWINGS FOR LOCATION AND HEIGHT OF STEPS

STEPS IN SLAB ON GRADE

NTS

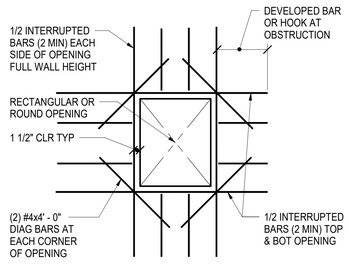
8



EDGE OF SLAB-ON-GRADE

NTS

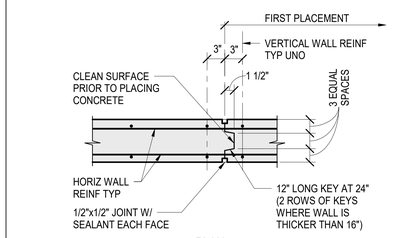
6



TYP MINIMUM REINFORCING AT CONCRETE WALL OPENING UP TO 48"x48"

NTS

15

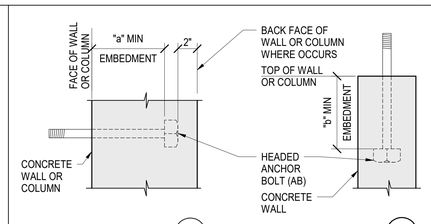


NOTE:
1. PROVIDE CONSTRUCTION JOINT AT 60'-0" MAXIMUM.
2. LOCATION AND DETAIL OF JOINTS SHALL BE APPROVED BY ARCH PRIOR TO CONSTRUCTING FORMS.

VERTICAL WALL CONSTRUCTION JOINT

NTS

14



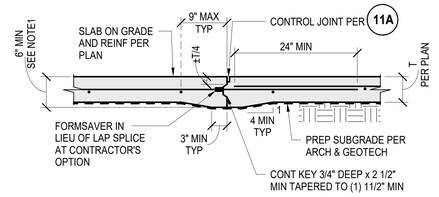
AB / ROD SIZE	EMBEDMENT "a"	EMBEDMENT "b"
1/2"	4"	10"
5/8"	5"	10"
3/4"	5"	10"
7/8"	7"	11"
1"	8"	12"

NOTE:
DIMENSION OF HEX HEAD SHALL CONFORM TO ANSI/ASME B18.2.1

BOLT EMBEDMENT SCHEDULE

NTS

13

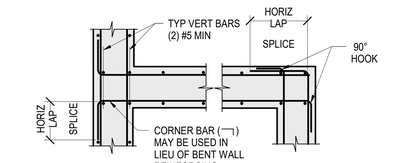


NOTE:
1. THICKENED SLAB AT CONSTRUCTION JOINT IS NOT REQUIRED FOR T≥6"
2. PROVIDE CONTROL JOINTS AT 16'-0" MAX UNO
3. HAND TOOLED JOINTS MAY BE USED IN LIEU OF SAW-CUT ONLY WHEN APPROVED BY THE ARCHITECT FOR SLABS W/ T≤5". TOOLED JOINTS SHALL BE AT LEAST T/4 DEEP WITH A 1/8" MIN RADIUS.
4. AT EXPOSED SLABS CONTRACTOR SHALL REVIEW AND CONFIRM JOINT PLACEMENT WITH ARCHITECT PRIOR TO CONCRETE PLACEMENT
5. DO NOT OVERCUT AT CONSTRUCTION JOINT INTERSECTIONS AT EXPOSED SLABS
6. FILL CONTROL JOINT WITH SEALANT WHERE SLAB IS EXPOSED TO WATER

JOINTS IN SLAB ON GRADE

NTS

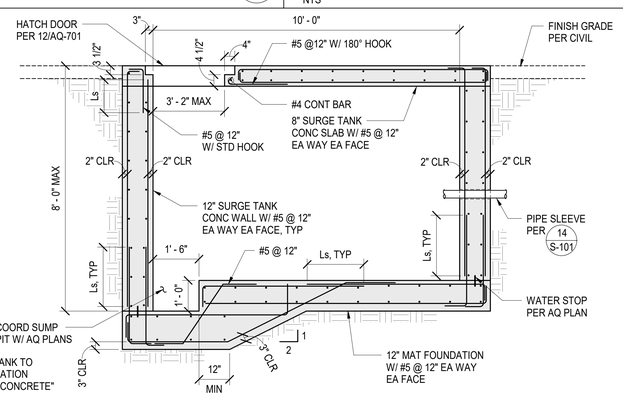
11



REINFORCING AT WALL INTERSECTIONS

NTS

19

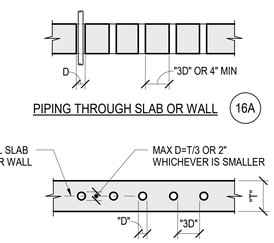


NOTE:
ALL CONCRETE FOR SURGE TANK TO BE PREPARED PER CLASSIFICATION ON GENERAL NOTE 5 UNDER "CONCRETE" FOR CONCRETE DESIGN

SECTION AT SURGE TANK

NTS

17



NOTE:
WHERE CLEAR DISTANCE BETWEEN SLEEVES IS IMPOSSIBLE, THIS AREA SHALL BE TREATED AS A SLAB OPENING PER 15 S-102

PIPE AND CONDUIT IN OR THROUGH STRUCTURAL SLAB OR CONCRETE WALL

NTS

16

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
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ARCHITECT STAMP

CONSULTANT STAMP
REGISTERED PROFESSIONAL ENGINEER
No. 47012
CIVIL
STATE OF CALIFORNIA
DATE SIGNED: 02/07/25

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

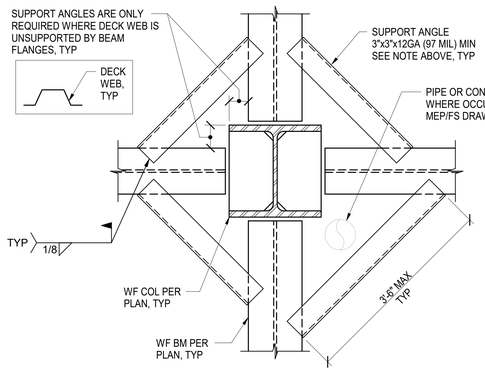
SHEET NO.
S-102

DATE: MARCH 7, 2025

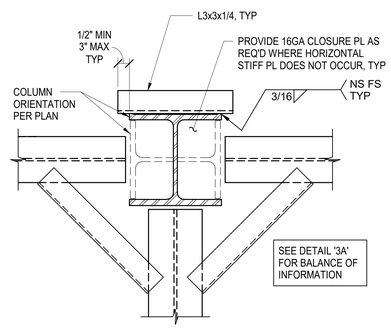
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/4/2025 12:11:57 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

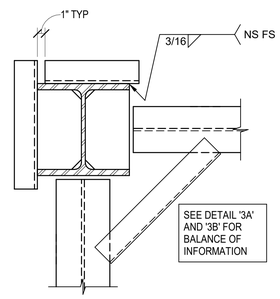
ISSUED: SEPTEMBER 9, 2025



BEAM ON ALL SIDES (3A)



BEAM ON 3 SIDES (3B)

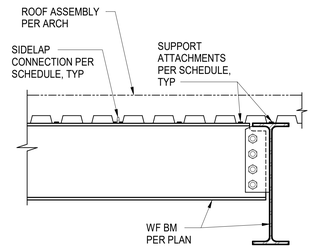


BEAM ON 2 SIDES (3C)

METAL DECK SUPPORT AT STEEL COLUMNS

NTS

3



UNTOPPED (BARE) METAL ROOF DECK

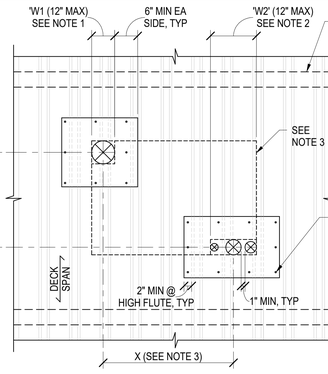
NOTES:

1. DECK SUPPORT ATTACHMENTS:
   - A. NO ATTACHMENTS ARE PERMITTED IN MOMENT FRAME BEAM PROTECTED ZONES.
   - B. POWDER DRIVEN FASTENERS SHALL BE HILTI X-HSN-24 FOR SUPPORTS LESS THAN 1/4" THICK AND HILTI X-ENP-19 L15 FOR SUPPORTS 1/4" AND THICKER AND INSTALLED PER ICC ESR 2197 (OR EQUAL)
   - C. 1/2" EFF Ø ARC SPOT WELDS MAY BE USED IN LIEU OF POWDER DRIVEN FASTENERS AT CONTRACTOR'S OPTION
2. DECK SIDELAP CONNECTIONS:
   - A. VSC (OR EQUAL) MAY BE USED AT SIDELAPS IN LIEU OF BUTTON PUNCH CONNECTIONS
   - B. 1 1/2" LONG TOP SEAM WELDS MAY BE USED AT SIDELAPS IN LIEU OF BUTTON PUNCH OR VSC CONNECTIONS
3. MAX SPANS:
   - A. CONTRACTORS SHALL PROVIDE SHORING AS REQUIRED WHERE DECK SPANS EXCEED THE SCHEDULED MAXIMUM SPANS AT CONCRETE TOPPED METAL DECKS
   - B. UNTOPPED (BARE) METAL ROOF DECK SPANS SHALL NOT EXCEED THE SCHEDULED MAXIMUM SPANS. NOTIFY SEOR WHERE UNTOPPED DECKS CANNOT BE INSTALLED TO MEET THE SCHEDULE MAXIMUMS.
4. CAREFULLY REVIEW METAL DECK GENERAL NOTES FOR ADDITIONAL REQUIREMENTS

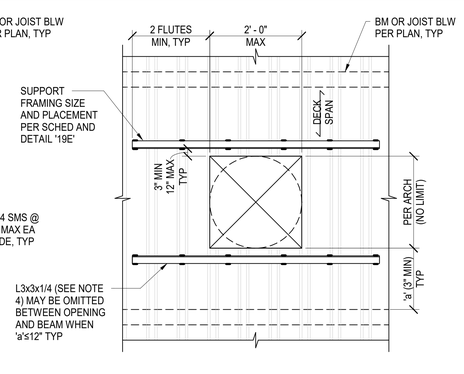
TYPICAL METAL DECK SCHEDULE AND ATTACHMENTS

NTS

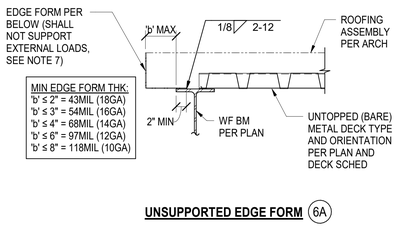
1



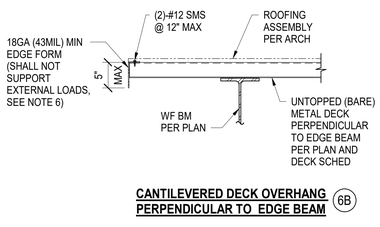
OPENINGS AND OPENING GROUPS ≤12" (19A)



OPENINGS AND OPENING GROUPS ≤24" (19B)



UNSUPPORTED EDGE FORM (6A)



CANTILEVERED DECK OVERHANG PERPENDICULAR TO EDGE BEAM (6B)

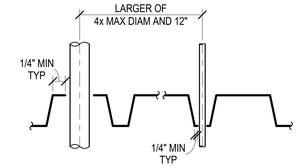
NOTES:

1. EDGE FORMS ARE ONLY DESIGNED TO SUPPORT A 20PSF ROOF LIVE LOAD. DO NOT STAND ON OR PLACE CONSTRUCTION MATERIALS ON CLOSURE PLATE.
2. EXTERNAL LOADING' REFERS TO ANY ELEMENT THAT IS ATTACHED DIRECTLY TO AND RELIES ON THE STRENGTH OF THE LIGHT GAUGE EDGE FORM FOR SUPPORT AND STABILITY. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO METAL STUD FRAMING, CURTAIN WALL CLIPS, GUARDRAIL POSTS, ELEVATOR SILLS ANGLES, ETC THAT ARE ATTACHED DIRECTLY TO THE LIGHT GAUGE EDGE FORM.

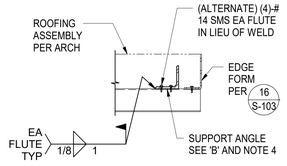
LIGHT GAUGE EDGE CLOSURE AT UNTOPPED METAL DECK (NO EXTERNAL LOADING)

NTS

6



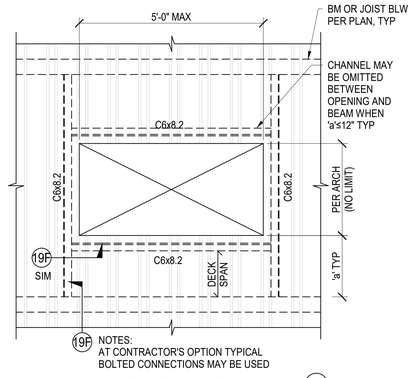
UNREINFORCED OPENING IN BARE METAL DECK (19D)



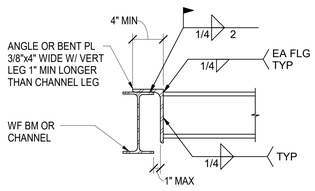
ANGLE TO DECK INSTALLATION (19E)

NOTES:

1. DECK STRENGTHENING IS NOT REQUIRED FOR A SINGLE PENETRATION SIZED PER DETAIL 'D'
2. DIMENSION 'W2' DENOTES A GROUP OF ROUND PENETRATIONS ≤4" DIAM SPACED CLOSER THAN THE LARGER OF 4x DIAM AND 12" WHICH SHALL BE CONSIDERED A SINGLE COMBINED OPENING AS SHOWN ABOVE. SEE DETAILS 'B' AND 'C' FOR WIDER PENETRATION GROUPS.
3. IF BOTH DIMENSIONS 'X' AND 'Y' ARE LESS THAN THE LARGER OF (4x 'W1'), (4x 'W2'), OR 32" THE OPENINGS SHALL BE TREATED AS A SINGLE LARGER OPENING AND SHALL BE FRAMED AS REQUIRED FOR LARGER OPENINGS.
4. WHERE INSULATION THICKNESS IS LESS THAN 3" INSTALL ANGLE ON UNDERSIDE OF DECK. OTHERWISE UNDERSIDE INSTALLATION IS AT CONTRACTOR'S OPTION.
5. SEE PLANS FOR FRAMING AROUND OPENINGS LARGER THAN 5'-0"
6. WHERE FRAMING IS SHOWN ON PLAN FOR OPENINGS ≤5'-0" THE LARGER MEMBER SIZES WILL GOVERN
7. REFER TO ARCH'L AND MEP DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS AND PIPE/CONDUIT PENETRATIONS.



OPENINGS AND OPENING GROUPS ≤5'-0" (19C)

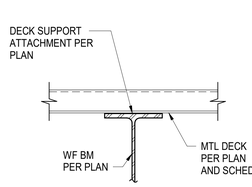


TYPICAL SECTION AT CHANNEL FRAMING (19F)

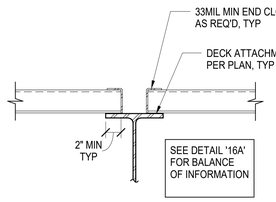
OPENINGS IN UNTOPPED METAL DECK

NTS

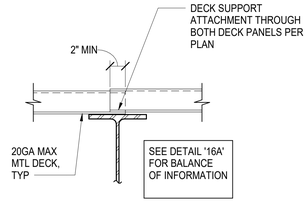
19



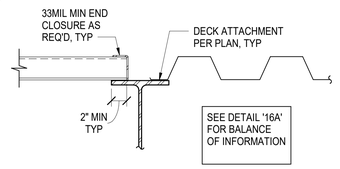
DECK CONTINUOUS OVER BEAM (16A)



DECK SPLICE OVER BEAM (16B)

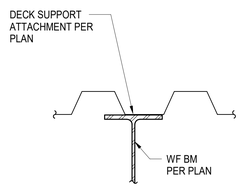


(ALTERNATE) DECK SPLICE OVER BEAM FOR TWO (2) LAYERS OF 20GA OR THINNER MTL DECK (16C)

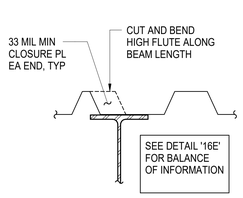


CHANGE IN DECK DIRECTION (16D)

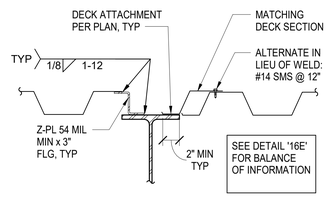
DECK PERPENDICULAR TO SUPPORT



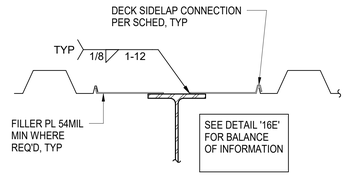
LOW FLUTE OVER BEAM (16E)



CUT/BEND HIGH FLUTE OVER BEAM (16F)



DECK PANEL TRANSITION WITHIN 3" OF SUPPORT (16G)



DECK PANEL TRANSITION WITHIN 8" OF SUPPORT (16H)

DECK PARALLEL TO SUPPORT

NOTES:

1. FOR DECK PARALLEL TO SUPPORTS (DETAILS '16E' '16F' '16G' OR '16H') CONTRACTOR SHALL SELECT THE MOST APPROPRIATE DETAIL DEPENDING ON RELATIVE LOCATION OF HIGH/LOW FLUTE TO SUPPORT
2. THIS DETAIL MAY BE APPLIED SIMILARLY AT THE FOLLOWING CONDITIONS:
   - A. OTHER STRUCTURAL STEEL BEAM SHAPES SUPPORTING METAL DECK SHOWN ON PLAN INCLUDING BUT NOT LIMITED TO CHANNELS, ANGLES, HSS, AND WT'S
   - B. PERIMETER BEAMS SIM WHERE ONE SIDE IS REPLACED BY CLOSURE PLATE
   - C. LEDGER ANGLES AND TOP OF WALL SUPPORTS WHERE OCCURS
   - D. UNTOPPED METAL DECK WHERE OCCURS

METAL DECK SUPPORT AT STEEL BEAMS

NTS

16

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER JOHN S. FITZGERALD NO. M 27 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS

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KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE

TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.

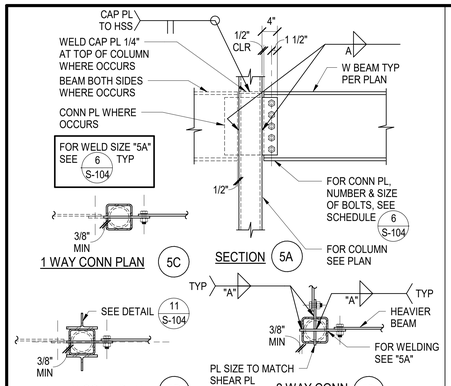
S-103

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

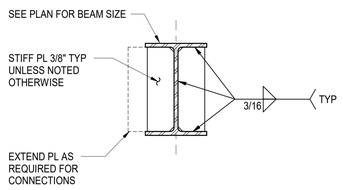
DATE PLOTTED: 3/4/2025 12:11:58 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

ISSUED: SEPTEMBER 9, 2025



WF BEAM TO HSS AND PIPE COLUMN 5

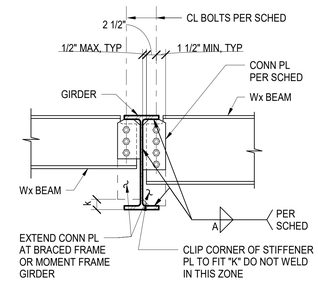
NTS



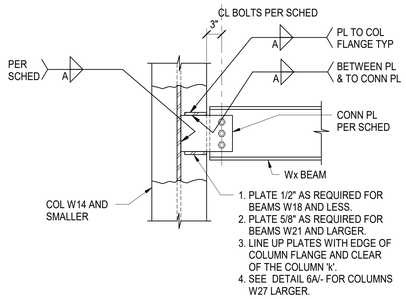
USE LARGER PL AND WELD AS MAY BE REQUIRED BY BEAM CONNECTION SCHEDULE

STIFFENER PLATES 10

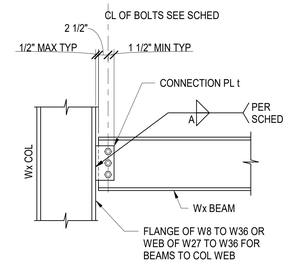
NTS



TYPICAL BEAM 6C



BEAM TO COLUMN WEB 6B

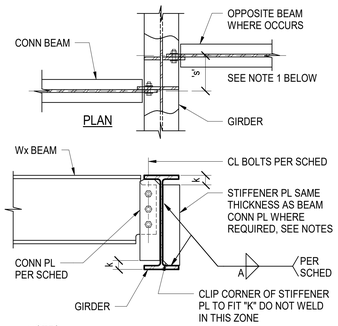


BEAM TO COLUMN FLANGE OR DEEP COLUMN WEB 6A

SIMPLE BEAM CONNECTION SCHEDULE			
SHEAR PL CONNECTION			
MEMBER (DEPTH)	# OF BOLTS	CONNECTION PLATE t	WELD SIZE A
< 8"	2	5/16"	1/4"
8" - 10"	2	5/16"	1/4"
12" - 14"	3	5/16"	1/4"
15" - 16"	4	3/8"	5/16"
18"	5	3/8"	5/16"
20" & 21"	5	3/8"	5/16"

NOTES:

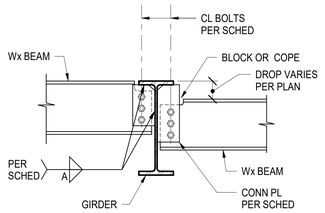
1. FILLET WELD SIZE SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY AISC TABLE J2.4
2. ALL BOLTS ARE 7/8"Ø (UNLESS NOTED OTHERWISE) AND ARE TO BE F3125 GRADE A325-N BOLTS, FULLY PRETENSIONED PER AISC REQUIREMENTS
3. PROVIDE SLIP CRITICAL CONNECTIONS AT ALL SEISMIC FORCE RESISTING ELEMENTS NOTED ON PLANS
4. BOLT SPACING TO BE 3" MINIMUM, TYPICAL UNLESS NOTED OTHERWISE.



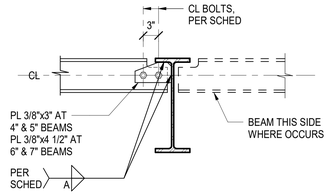
NOTES:

1. OPPOSITE BEAM DOES NOT OCCUR OR IS OFFSET BY 'S' ≥ 12" BRACED FRAME / MOMENT FRAME GIRDERS OR WHERE EXTERIOR SKIN ATTACHES TO GIRDER

ONE SIDED BEAM CONNECTION 6E



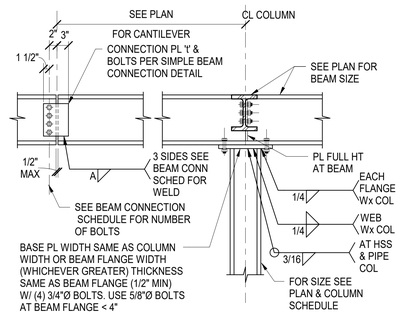
DROPPED BEAM 6D



BEAM 4" TO 7" 6F

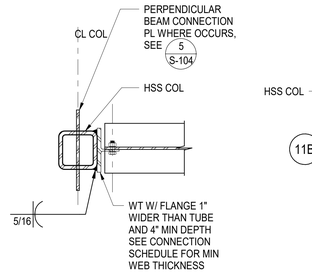
SIMPLE BEAM CONNECTION DETAILS 6

NTS



TYP CANTILEVER BEAM DETAIL 13

NTS



PLAN SECTION 11B ELEVATION 11A

ACCEPTABLE WT's FOR CONNECTIONS		
COLUMN	BEAM DEPTHS	
	W8 TO W14	W16 TO W27
HSS4x4 HSS5x5	WT5x15	WT5x22.5
HSS6x6 HSS7&x7	WT5x22.5	
HSS8x8 HSS9x9 HSS10x10	WT6x24.5	WT6x26.5
HSS12x12	WT7x45	W17x45

WF BEAM TO SQUARE OR RECTANGLE HSS COLUMN 11

NTS

AGENCY APPROVAL DSA# 03-124689

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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. MARTIN No. 41102 CIVIL STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

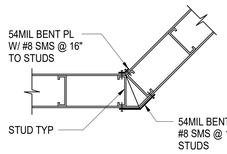
SHEET NO.
S-104

DATE: MARCH 7, 2025

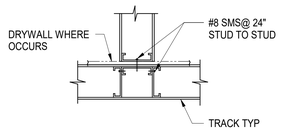
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/4/2025 12:11:59 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

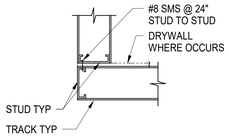
ISSUED: SEPTEMBER 9, 2025



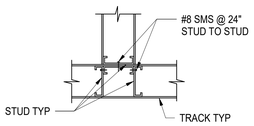
PLAN@ ANGLED WALL 4E



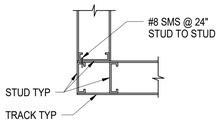
PLAN @ INTERSECTION 4B



PLAN @ CORNER 4A



PLAN @ INTERSECTION 4D

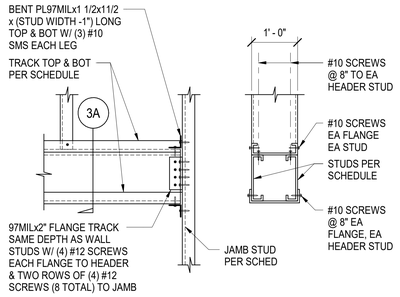


PLAN @ CORNER 4C

WALL INTERSECTIONS

NTS

4



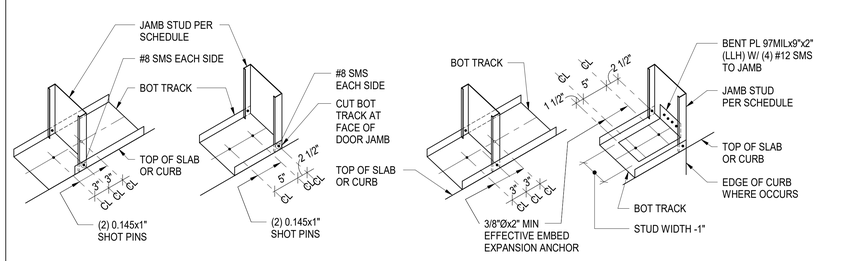
SECTION 3B

SECTION 3A

HEADER

NTS

3



CONT TRACK INTERIOR WALL 1D

END OF TRACK INTERIOR WALL 1C

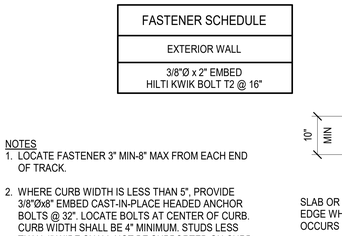
CONT TRACK EXTERIOR WALL 1B

END OF TRACK EXTERIOR WALL 1A

JAMB BASE

NTS

1



SILL

NTS

8

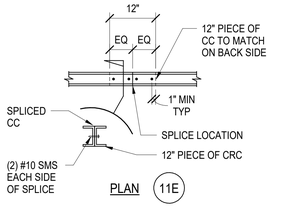
HEADER JAMB AND SILL SCHEDULE			
OPENING WIDTH	HEADER	JAMB	SILL
	INTERIOR NON-BEARING WALL	INTERIOR NON-BEARING WALL	INTERIOR NON-BEARING WALL
'W' ≤ 4'-0"	(2) 600S162-43 & (2) XXXT150-43	XXXS162-54	XXXT150-43
4'-0" < 'W' ≤ 10'-0"	(2) 600S162-43 & (2) XXXT150-43	XXXS162-68	XXXT150-54

NOTES:
1. HEADER AND JAMB THICKNESS SHALL BE IN ACCORDANCE WITH THE SCHEDULE OR TYPICAL WALL STUD THICKNESS WHICHEVER IS GREATER
2. XXX = WALL STUD WIDTH

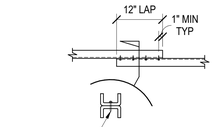
STUD WALL FRAMING SCHEDULE

NTS

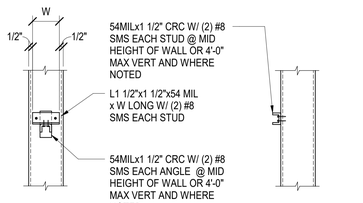
6



PLAN 11E



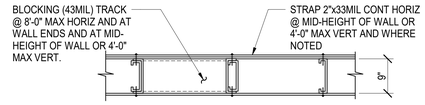
ALTERNATE 11F



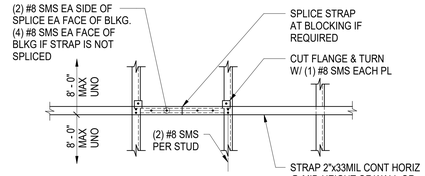
ALTERNATE 11D

ALTERNATE 11C

NOTE:
1. PLACE STRAP AND/OR CRC ON SIDE(S) WHERE SHEATHING DOES NOT OCCUR.
2. FOR CRC SPLICE SEE 11E



PLAN 11A



ELEVATION 11B

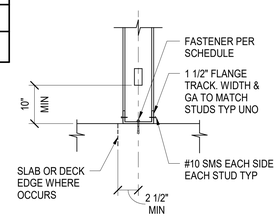
BRIDGING DETAIL

NTS

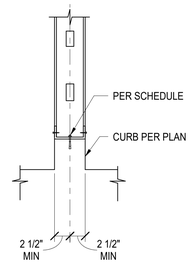
11

FASTENER SCHEDULE
EXTERIOR WALL
3/8"Ø x 2" EMBED HILTI KWIK BOLT T2 @ 16"

NOTES
1. LOCATE FASTENER 3" MIN-8" MAX FROM EACH END OF TRACK.
2. WHERE CURB WIDTH IS LESS THAN 5", PROVIDE 3/8"Øx8" EMBED CAST-IN-PLACE HEADED ANCHOR BOLTS @ 32". LOCATE BOLTS AT CENTER OF CURB. CURB WIDTH SHALL BE 4" MINIMUM. STUDS LESS THAN 4" WIDE SHALL NOT BE SUPPORTED ON CURB UNLESS CURB IS 4" WIDE (MIN) AND BOLTS ARE CENTERED ON CURB.



WALL ON SLAB 17B

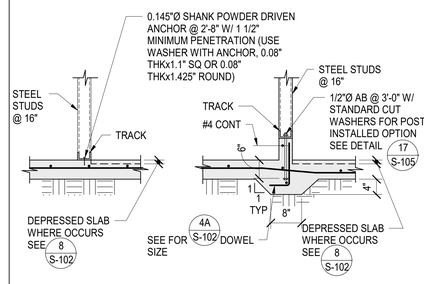


WALL ON CURB 17A

EXTERIOR WALL BASE

NTS

17



TYPICAL 16B

AT CURB 16A

INTERIOR NON-BEARING STUD WALL

NTS

16

AGENCY APPROVAL DSA# 03-124689

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STRUCTURAL
STATE OF CALIFORNIA
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1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE

TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.

S-105

DATE: MARCH 7, 2025

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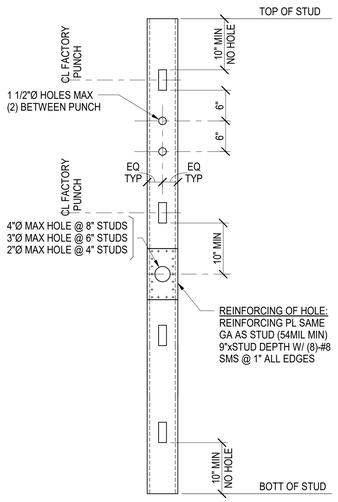
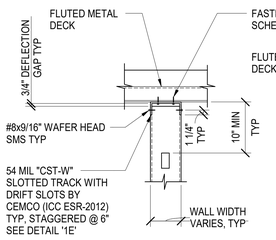
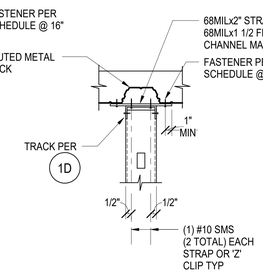


STUD PUNCHOUT/HOLES DETAIL 10

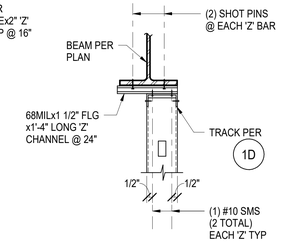
NTS



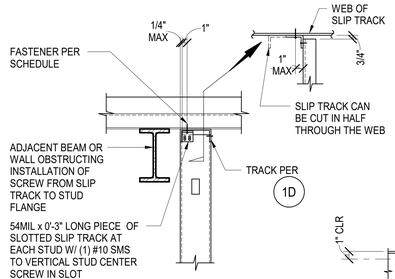
WALL PERPENDICULAR TO METAL DECK 1D



WALL PARALLEL TO METAL DECK 1C

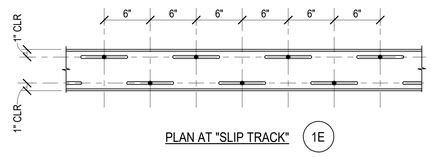


WALL TO STEEL BEAM 1B



WALL ADJ TO OBSTRUCTION 1A

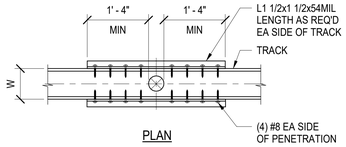
FASTENER SCHEDULE	
DECK WITHOUT STRUCTURAL CONC FILL OR DECK W/INSULATING CONC FILL	#10 SMS CENTERED IN SLOTS IN "SLIP TRACK"



PLAN AT "SLIP TRACK" 1E

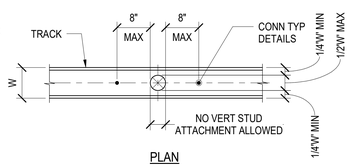
NON BEARING STUD WALL TERMINATING UNDER DECK AND BEAM 1

NTS



PLAN

PENETRATION > 1/2'W' PENETRATION W/REINFORCING REQUIRED 6A



PLAN

PENETRATION < 1/2'W' PENETRATION W/REVISED ATTACHMENT TO BLDG 6B

TRACK DESIGNATION	'W'	1/2 'W'	1/4 'W'
250TXXX-XX	2 1/2"	1 1/4"	3/4"
400TXXX-XX	4"	2"	1"
600TXXX-XX	6"	3"	1 1/2"
800TXXX-XX	8"	4"	2"

MAX PENETRATION THRU TRACKS (TOP OR BOT) 6

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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER — JOSEPH A. FITZPATRICK — NO. M 21 — CIVIL — STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

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TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.
S-106

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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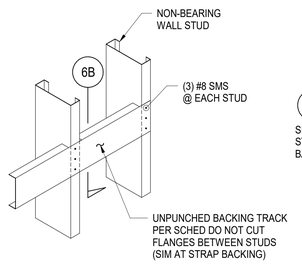
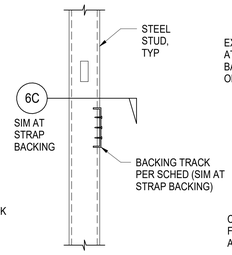
ISSUED: SEPTEMBER 9, 2025

BACKING SCHEDULE				
TYPE	ID	SIZE	MAX ALLOWABLE LOAD ON BACKING (LBS)	
			VERTICAL	HORIZONTAL
STRAP BACKING	SB1	6"x33MIL PL	10	5
	SB2	6"x54MIL PL	40	20
BACKING TRACKS	BT1	600T100-33	80	40
	BT2	600T100-54	300	150
	BT3	600T150-54	400	200
	BT4	600T100-68	500	250
	BT5	600T150-68	600	300
	BT6	600T100-97	600	300

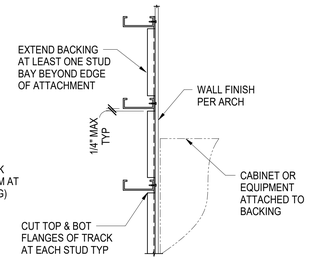
NOTES:
1. SB1 BACKING OR BETTER SHALL BE USED AS DETAILED OR FOR THE FOLLOWING:
   A. DRY ERASE / CHALK / BULLETIN BOARDS
   B. SURFACE MOUNTED MIRRORS
   C. FLAT SIGNAGE
2. SB2 BACKING SHALL BE USED AS DETAILED OR FOR THE FOLLOWING
   A. RESTROOM ACCESSORIES
   B. DOOR STOPS / HOLDERS
   C. WALL MOUNTED EQUIPMENT ≤ 20 LBS
3. BT2 BACKING SHALL BE USED AS DETAILED OR FOR THE FOLLOWING:
   A. CASEWORK (UPPER, LOWER, TALL)
4. FOR ALL OTHERS BACKING SIZES PROVIDE AS DETAILED.
5. WHERE BACKING SIZE SPECIFIED ON ANCHORAGE DETAIL CONFLICTS WITH NOTES 1-3 PROVIDE THE MORE STRINGENT OF THE TWO.



A BACKING ISOMETRIC VIEW

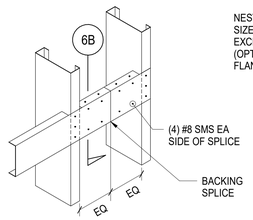


B SECTION

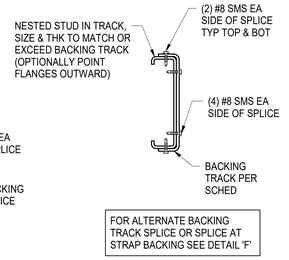


C PLAN

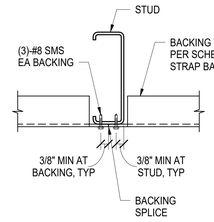
TYPICAL BACKING DETAILS



D BACKING SPLICE BETWEEN STUDS



E SECTION - BACKING SPLICE BETWEEN STUDS



F PLAN - ALTERNATE BACKING SPLICE AT STUD

TYPICAL BACKING SPLICE DETAILS

TYPICAL BACKING DETAILS
NTS

6

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER — JOSEPH A. FITZPATRICK — NO. 47102 — ELECTRICAL — STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

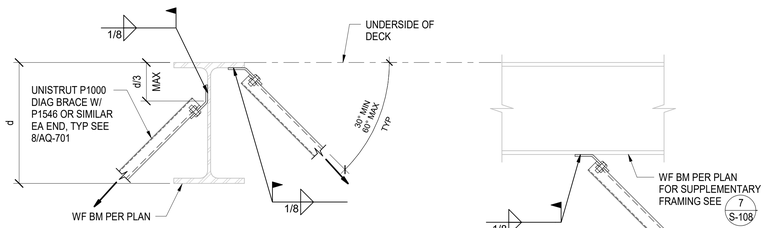
SHEET NO.
S-107

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/4/2025 12:12:01 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

ISSUED: SEPTEMBER 9, 2025



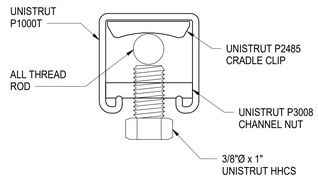
NOTES:
1. SEE DETAIL A FOR BALANCE OF INFO
2. * INDICATES THAT FORCE SHALL BE DIVIDED BY 0.7 TO CONVERT TO LRFD LEVEL

(A) ATTACHMENT TO PERPENDICULAR STEEL BEAM

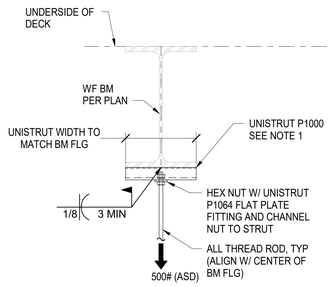
(B) ATTACHMENT TO PARALLEL STEEL BEAM

UNISTRUT BRACE ATTACHMENT TO STEEL BEAM
NTS — 4

ROD SIZE (IN)	TYPICAL BOLT SPACING (IN)	DESIGN LOAD (LBS-ASD)
3/8	9	730
1/2	12	1350
5/8	15	2160



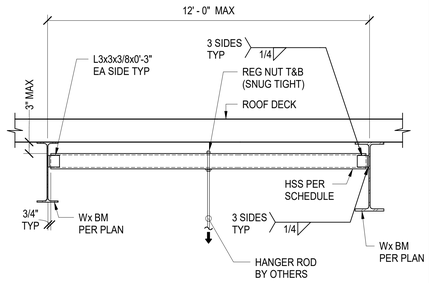
UNISTRUT CRADLE CLIP ASSEMBLY
NTS — 3



(A) ATTACHMENT TO STEEL BEAM

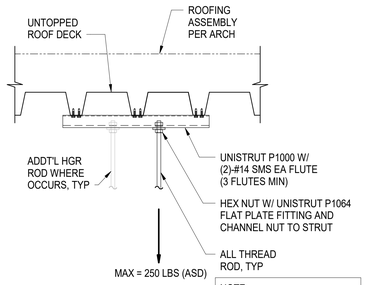
NOTE:
1. AT CONTRACTOR'S OPTION USE UNISTRUT P1001
2. UNISTRUT CAN BE SUBSTITUTED WITH EQUIVALENT STRUT PRODUCTS ONLY UPON REVIEW AND APPROVAL OF SEOR

HANGER ROD ATTACHMENT TO STEEL BEAM
NTS — 1



MAX TOTAL LOAD TO HSS (HANGER & BRACE) LBS	HSS SIZE
500 LBS (ASD)	HSS3x3x3/16
1,000 LBS (ASD)	HSS4x4x3/16
2,000 LBS (ASD)	HSS4x4x1/4

SUPPLEMENTAL FRAMING FOR MEP HANGER
NTS — 7



UNISTRUT ATTACHMENT TO UNTOPPED ROOF DECK

NOTE:
WHERE ADDITIONAL HANGER RODS OCCUR, THE TOTAL LOAD SHALL NOT EXCEED 250 LBS.

HANGER ROD ATTACHMENT TO BARE METAL DECK
NTS — 6

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DATE: 08/18/2025

196

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CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER — JOHN ANTHONY FIFFICK — NO. 41762 — STRUCTURAL — STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
TYPICAL DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

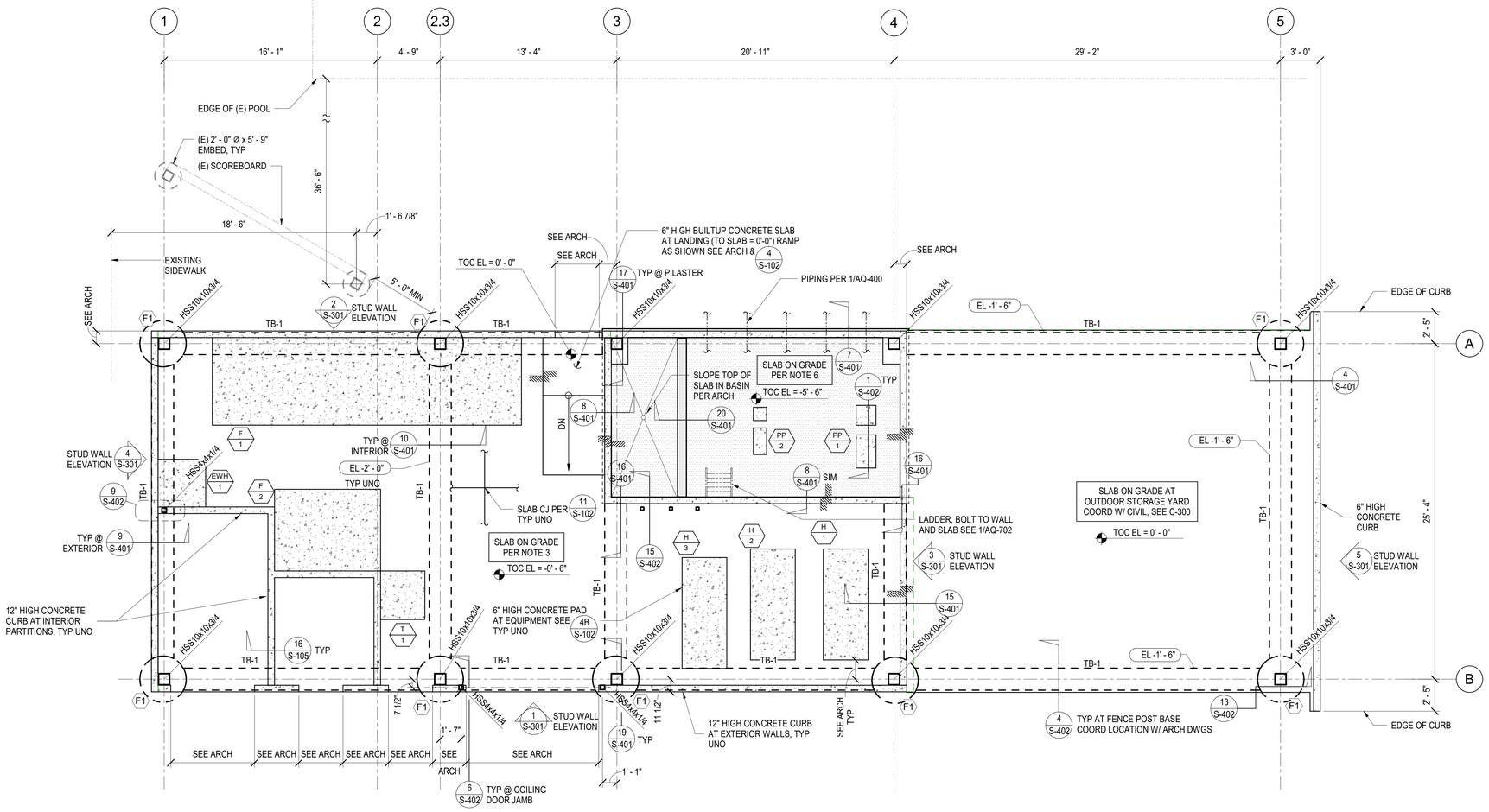
SHEET NO.
S-108

DATE: MARCH 6, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/29/2025 1:16:43 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

ISSUED: SEPTEMBER 9, 2025



FOUNDATION PLAN
1/4" = 1'-0"

PLAN NOTES:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. FOR GENERAL NOTES AND TYPICAL DETAILS, SEE SHEETS S-001 THRU S-108.
3. SLAB ON GRADE: 5" THICK WITH #4@18". EACH WAY TOP OVER SUB-GRADE PER SOILS ENGINEER.
4. TOP OF PILECAP SHALL BE 1'-6" BELOW LOWEST ADJACENT FINISHED GRADE. U.N.O
5. FOR CURBS AND HOUSEKEEPING PADS SEE DETAILS 4/S-102. SEE ARCHITECTURAL MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATIONS, SIZES, AND DIMENSIONS OF ALL CURBS AND HOUSEKEEPING PADS.
6. DEPRESSED SLAB AT SUMP PIT: 18" THICK WITH #6@12" EACH WAY TOP AND BOTTOM.

PLAN LEGEND:

- FX — INDICATES PIER FOUNDATION MARK. SEE SCHEDULE ON 11/S-401 FOR INFORMATION.
- TB-X — INDICATES TIE BEAM, SEE SCHEDULE ON 10/S-401.
- TOC EL = — INDICATES BASIC TOP OF CONCRETE SLAB ON GRADE ELEVATION. SEE ARCHITECTURAL DRAWINGS FOR EXACT ELEVATION.
- -XX'-X" — INDICATES TOP OF FOOTING OR GRADE BEAM ELEVATIONS FROM TOP OF FINISHED FLOOR OR LOWEST ADJACENT GRADE.
- INDICATES STUD WALL WITH 600S162-43 @ 16" (6" x 18 GA) , TYPICAL UNO.
- INDICATES UNDERGROUND UTILITIES SHOWN FOR CONVENIENCE ONLY, COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING SUBCONTRACTORS. STEP BOTTOM OF FOOTING AS REQUIRED PER 19/S-101.
- INDICATES DEPRESSION, SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
- INDICATES CONCRETE EQUIPMENT PAD COORDINATE WITH ARCH DRAWINGS FOR EXACT LOCATION, SIZE AND DIMENSIONS, SEE 4B/S-102 FOR DETAIL.
- INDICATES CONCRETE CURB SHOWN ONLY TO ALERT CONTRACTOR. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND EXTENT OF CURBS, SEE 4A/S-102. TYPICAL INTERIOR METAL STUDS SHALL BE 600S162-43 @ 16" UNO.
- XX / X — INDICATES MECHANICAL UNIT TYPE. SEE SCHEDULE ON THIS SHEET FOR EQUIPMENT WEIGHTS, COORDINATE WITH MEP DRAWINGS, TYPICAL.

EQUIPMENT WEIGHT SCHEDULE	
UNIT MARK	MAX OPERATING WEIGHT (LBS)
CF-1	220
CF-2	220
CF-3	87
CF-4	87
CF-5	87
EWH-1	1480
F-1	32112
F-2	9212
H-1	2458
H-2	2458
H-3	4025
PP-1	1750
PP-2	750
T-1	620

AGENCY APPROVAL DSA# 03-124689

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DATE: 08/18/2025

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REGISTERED PROFESSIONAL ENGINEER JAMES A. FITZPATRICK No. 19,852 STRUCTURAL STATE OF CALIFORNIA
DATE SIGNED: 02/07/25

REVISIONS

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
FOUNDATION PLAN

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.
S-201

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 3/4/2025 12:12:02 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt
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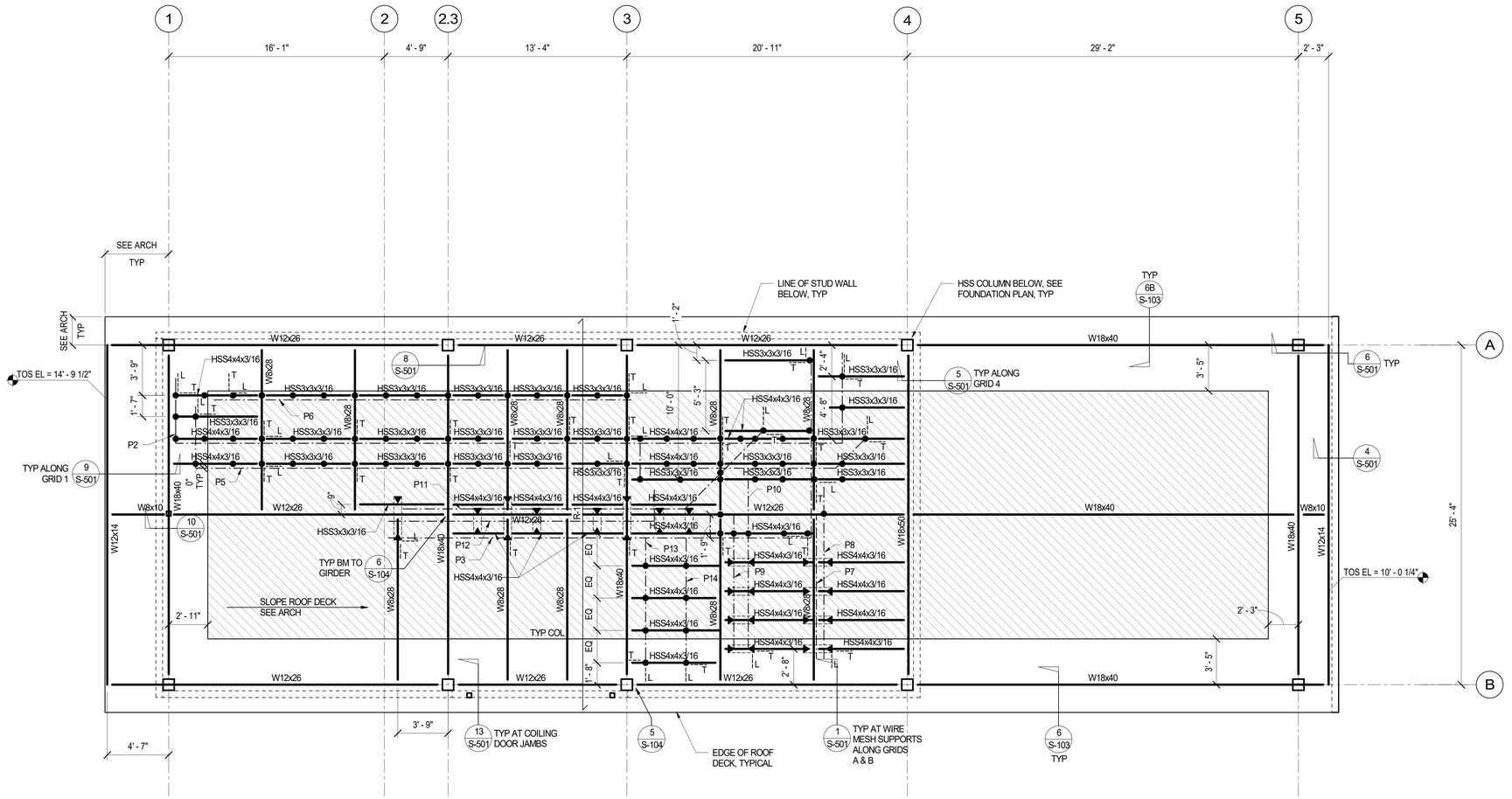

ROOF FRAMING PLAN
1/4" = 1'-0"

PLAN NOTES:

1. REFER TO AND CHECK WITH ARCHITECTURAL DRAWING, DIMENSION FOR ROOF SLOPE. GUTTERS, VENTS, DRAINS, SADDLES, ETC., AND DIMENSIONS NOT SHOWN. REFER TO AND CHECK WITH MECHANICAL DRAWING, FOR DUCTS OPENING, EQUIPMENT SIZE AND LOCATION ETC. LOCATE SUPPORTS MEMBER ACCORDINGLY.
2. FOR GENERAL NOTES AND TYPICAL DETAILS, SEE SHEETS S-001 THRU S-108.
3. VERIFY ALL FINISH ROOF ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
4. Wx BEAM WEBS TO BE PERPENDICULAR TO DECK (UNO).
5. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL THAT ARE EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
6. FOR SUPPLEMENTAL FRAMING AT MEP HANGERS/BRACES, SEE TYPICAL DETAIL 13/S-108.

PLAN LEGEND:

INDICATES CANTILEVERED BEAM CONNECTION, SEE CONNECTION DETAIL 13/S-104.

R-1

INDICATES VERCO PLN3CD-32 3" x 18GA GALVANIZED METAL ROOF DECK (2 SPAN MIN, SINGLE SHEET, NO SPLICES) SEE 1/S-103.
SUPPORT ATTACHMENT: (4) 5/8"Ø PUDDLE WELDS PER SHEET AT EACH SUPPORT.
SIDELAP CONNECTION: VSC2 @ 18"
MAXIMUM SPANS: SINGLE = 9' - 6", DOUBLE = 13' - 6" AND TRIPLE = 14' - 6"

INDICATES FUTURE ROOFTOP PV. SUPERIMPOSED DEAD LOAD OF 5.0 PSF HAS BEEN INCLUDED IN DESIGN. INSTALLATION OF FUTURE SOLAR PV SYSTEMS REQUIRE A SEPARATE DSA APPLICATION.

INDICATES 7/8"Ø ASTM A36 HANGER ROD W/ STIFFENER CLAMP PER 5/AQ-701 SEE 1/S-108 FOR HANGER TO Wx CONNECTION & 12/S-107 FOR HANGER TO HSS CONNECTION. REFER TO 2/AQ-500 FOR DIMENSIONS.

INDICATES 5/8"Ø ASTM A36 HANGER ROD W/ STIFFENER CLAMP AS REQUIRED PER 8/AQ-701, SEE 1/S-108 FOR HANGER TO Wx CONNECTION.

INDICATES BRACING ORIENTATION PER 5/AQ-701. & 8/AQ-701
T= TRANSVERSE BRACE
L= LONGITUDINAL BRACE

PIPE SUPPORT SCHEDULE

PIPE ID	PIPE SIZE	PIPE WT (INCLUDES WATER WT)	MAX HANGER SPACING	MAX SEISMIC BRACING SPACING
P2	10"Ø SCH 80 PVC	45 PLF	5'	10'
P3	8"Ø SCH 80 PVC	30 PLF	5'	10'
P5	10"Ø SCH 80 PVC	45 PLF	5'	10'
P6	4"Ø SCH 80 PVC	12 PLF	5'	10'
P7	4"Ø SCH 80 PVC	12 PLF	5'	10'
P8	4"Ø SCH 80 PVC	12 PLF	5'	10'
P9	4"Ø SCH 80 PVC	12 PLF	5'	10'
P10	4"Ø SCH 80 PVC	12 PLF	5'	10'
P11	8"Ø SCH 80 PVC	30 PLF	5'	10'
P12	4"Ø SCH 80 PVC	12 PLF	5'	10'
P13	4"Ø SCH 80 PVC	12 PLF	5'	10'
P14	4"Ø SCH 80 PVC	12 PLF	5'	10'

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ARCHITECT STAMP

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REGISTERED PROFESSIONAL ENGINEER
JOSEPH S. FITZPATRICK
No. M 28
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 02/07/25

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1801 Panorama Dr.
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BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
ROOF FRAMING PLAN

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.
S-202

DATE: MARCH 6, 2025

CONSTRUCTION DOCUMENTS

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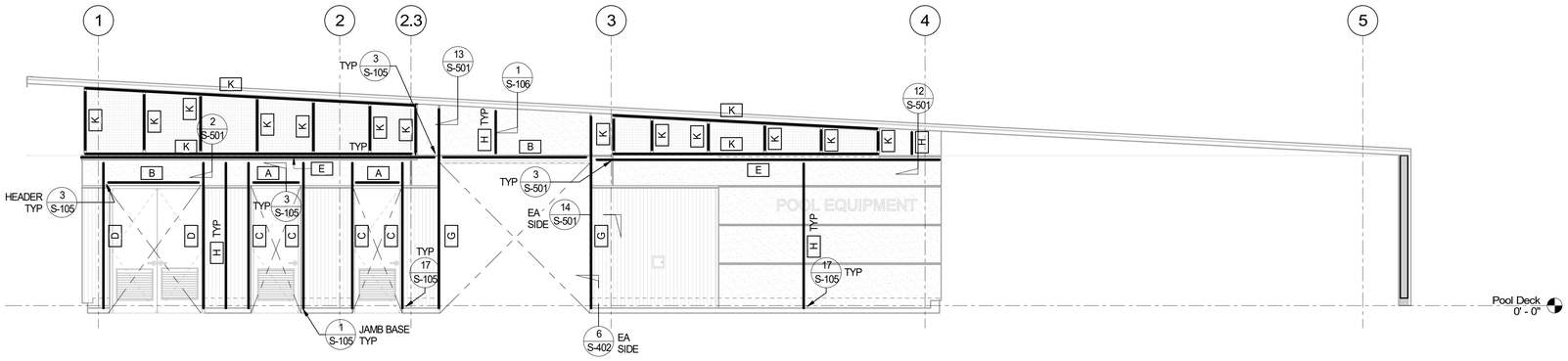
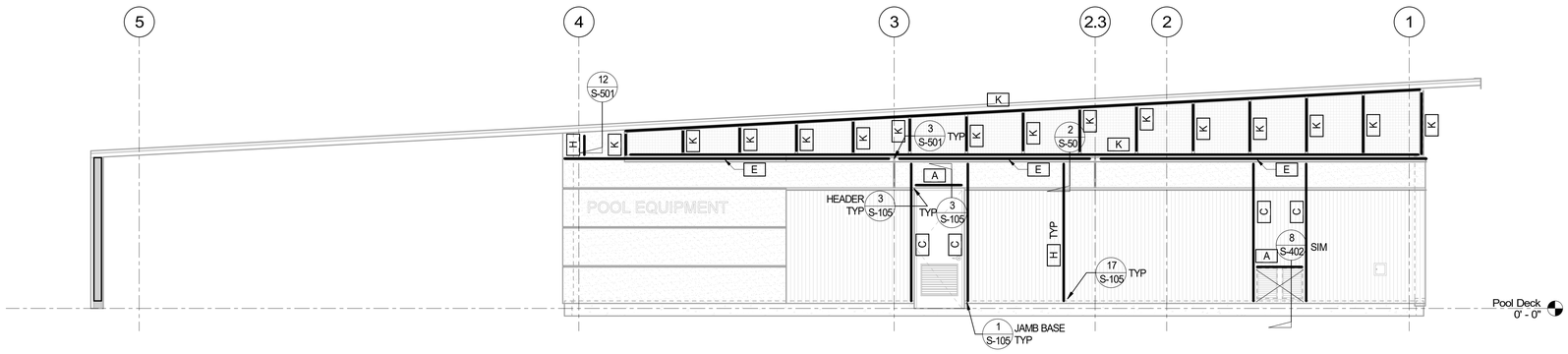


STUD WALL ELEVATION ALONG GRID LINE B

1/4" = 1'-0"

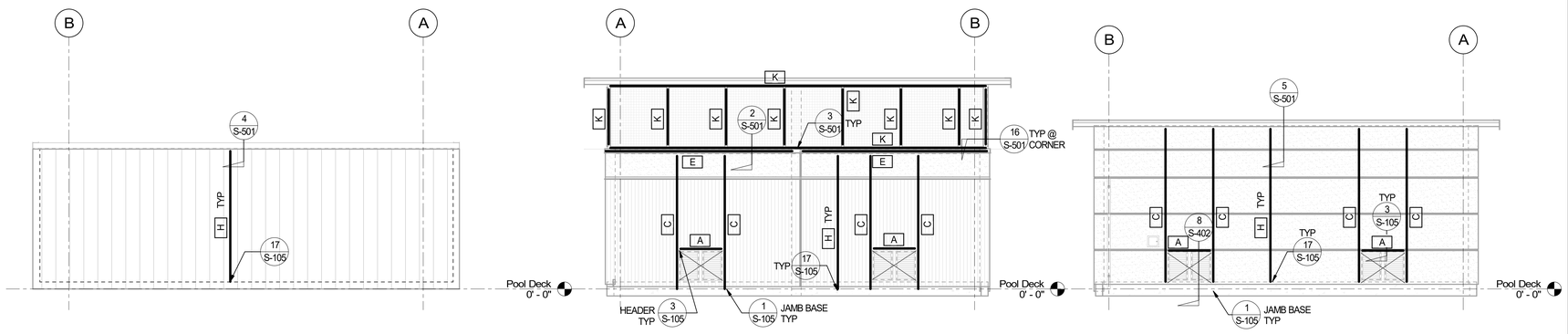
1



STUD WALL ELEVATION ALONG GRID LINE A

1/4" = 1'-0"

2



STUD WALL ELEVATION ALONG GRID LINE 4

1/4" = 1'-0"

5

STUD WALL ELEVATION ALONG GRID LINE 1

1/4" = 1'-0"

4

STUD WALL ELEVATION ALONG GRID LINE 4

1/4" = 1'-0"

3

EXTERIOR STUD WALL SCHEDULE				
MARK	HEADER	JAMB	SILL	STUD
A	(2) 600S162-43 & (2) 600T150-43		600T150-43	
B	(2) 1200S162-54 & (2) 600T150-54		600T150-68	
C		600S162-54		
D		600S200-97		
E	(2) 1200S162-68 & (2) 600T200-68			
F	(2) 1200S162-97 & (2) 600T150-97			
G		600S200-97 W /600T150-68		
H				600S162-43@16"
J				400S162-43@16"

STEEL FRAMING				
K	HSS2x2x3/16			

NOTE:

1. FOR BOX JAMB G, SEE 15/S-501 FOR ASSEMBLY. BOX JAMB SHALL BE LOCATED ON EACH SIDE OF HSS POST, SEE 14/S-501.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196

250 EAST RINCON STREET, SUITE 204
CORONA, CA 92879
TEL (951) 444-5456

CONSULTANTS

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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES A. FLYNN No. 46170 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE

STUD WALL ELEVATIONS

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.

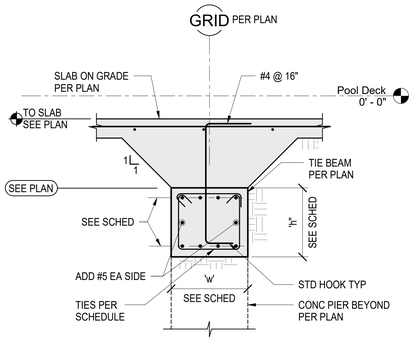
S-301

DATE: MARCH 6, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 6/24/2025 5:54:11 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

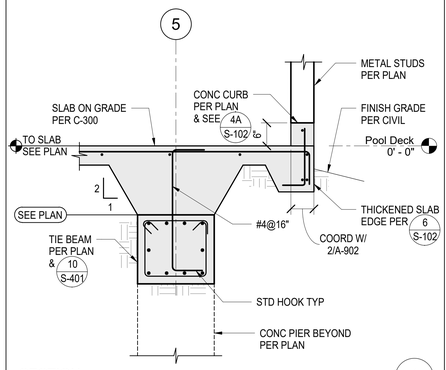
ISSUED: SEPTEMBER 9, 2025



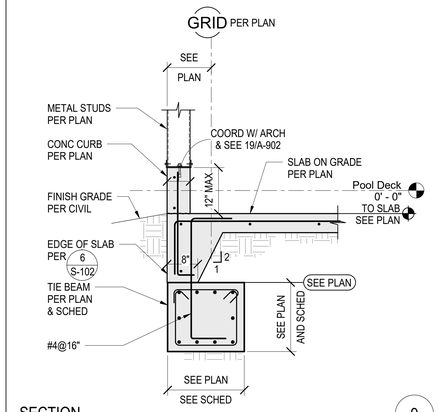
TIE BEAM SCHEDULE			
MARK	SIZE ('w' x 'h')	REINFORCING	REMARKS
TB-1	20" x 18"	(4) #7 T&B & #4 TIES @ 8"	LONG REINF SHALL BE SPLICED AT THE CENTER. WITHIN 3FT AT EACH BM END, ADD ADDL TIE FOR AN EFFECTIVE SPACING OF 4"

NOTES:
1. THE SLAB ON GRADE AREA SHALL BE EXCAVATED/SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES, WORKED UNTIL UNIFORM AND FREE FROM LARGE CLODS, MOISTURE-CONDITIONED TO A MINIMUM OF 2% OF ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY BASED ON ASTM TEST METHOD D1557.
2. THE UPPER 12" INCHES OF SOIL WITHIN SLAB ON GRADE ARE SHALL CONSIST ON NON-EXPANSIVE OR LIME-TREATED ENGINEERING FILL.
3. THE NON-EXPANSIVE FILL MATERIAL SHALL BE A WELL-GRADED SILTY SAND OR SANDY SILT SOIL.
4. IMPORTED FILL SHOULD BE APPROVED BY THE SOILS ENGINEER PRIOR TO PLACEMENT.

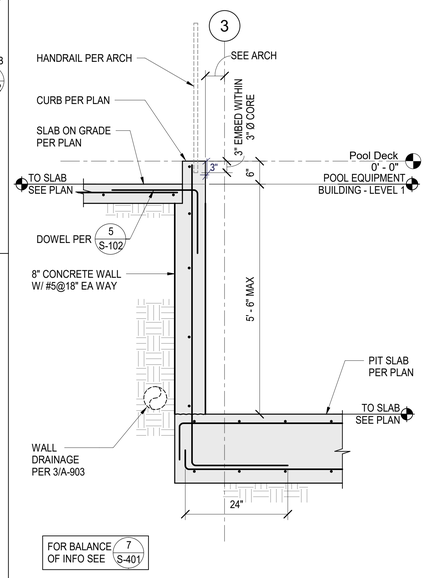
SECTION AT TIE BEAM — 10
3/4" = 1'-0"



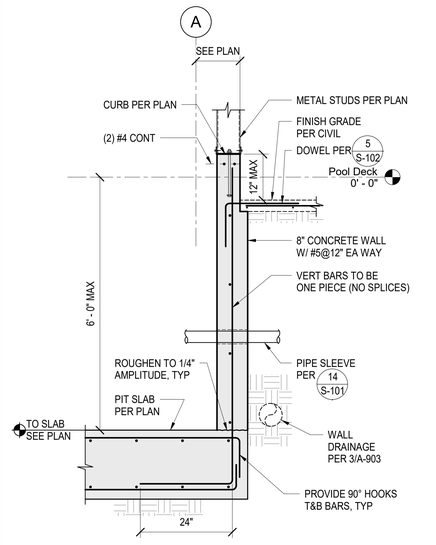
SECTION — 4
3/4" = 1'-0"



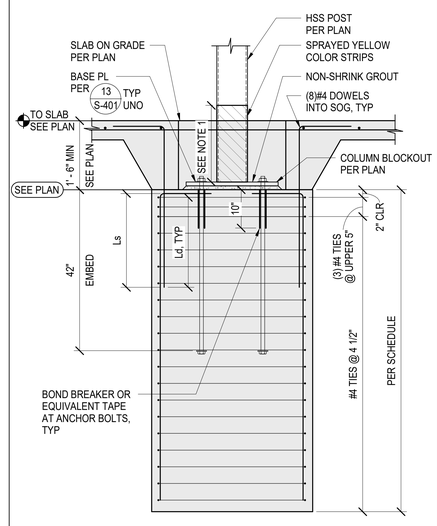
SECTION — 9
3/4" = 1'-0"

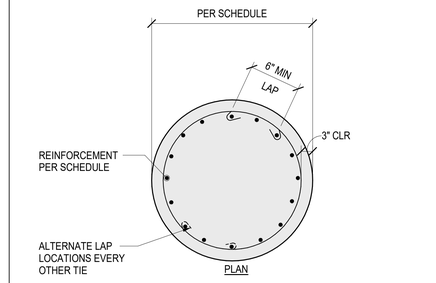


SECTION — 8
3/4" = 1'-0"

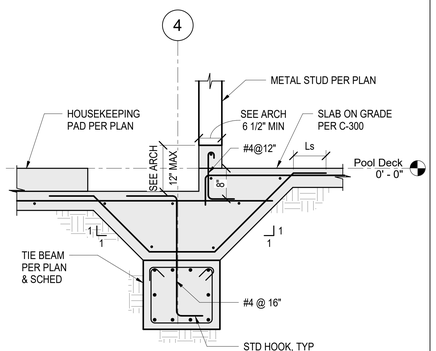


SECTION — 7
3/4" = 1'-0"

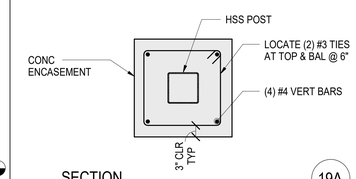




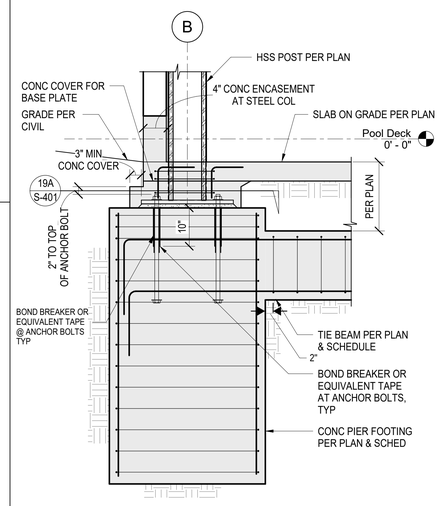
NOTE:
1. 20" PROTECTED ZONE, NO CONNECTION THAT PENETRATE STEEL SURFACE, INCLUDING BOLTS, HOLES, SCREWS, SHOT PINS, WELDS, AND TACK WELDS (PERMANENT OR TEMPORARY) ARE PROHIBITED WITHIN THE REGION SHOWN WITH YELLOW STRIPS. IT IS VIOLATION OF THE CODE TO MAKE SUCH CONNECTIONS.
2. PILES CENTER SHALL ALIGN WITH COLUMN ABOVE.



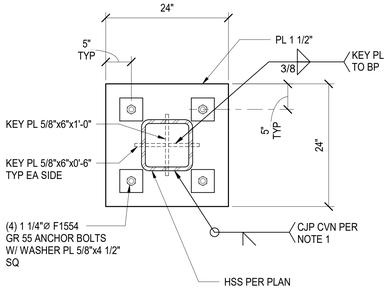
SECTION — 15
3/4" = 1'-0"



SECTION — 19A
3/4" = 1'-0"

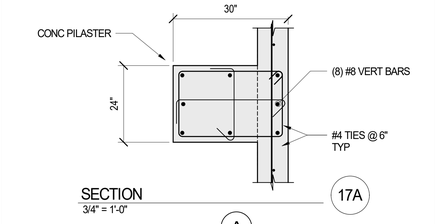


SECTION — 19
3/4" = 1'-0"

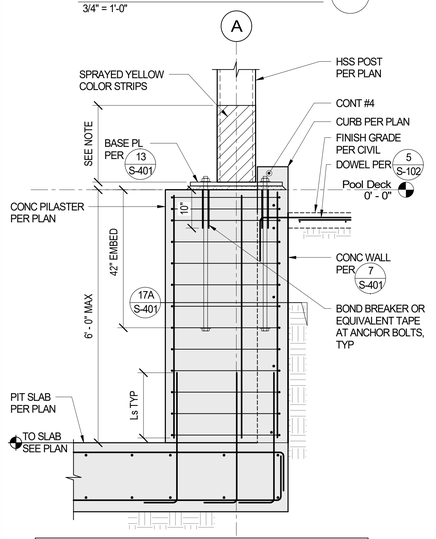


NOTE:
1. ALL GROOVE WELDS: ELECTRODES ARE DEMAND CRITICAL AND MUST BE RATED FOR CVN OF AT LEAST 20 FT-LBS AT -0 DEGREES FAHRENHEIT AND 40 FT-LBS AT +70 DEGREES FAHRENHEIT.

BASE PLATE DETAIL — 13
1" = 1'-0"



SECTION — 17A
3/4" = 1'-0"

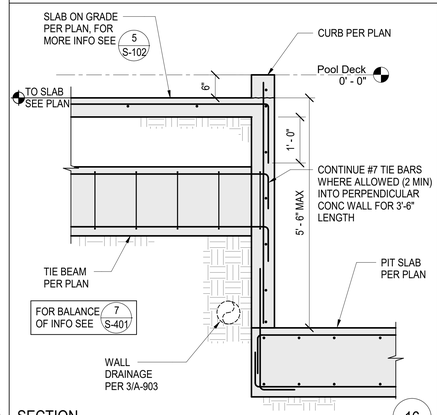


NOTE:
20" PROTECTED ZONE, NO CONNECTION THAT PENETRATE STEEL SURFACE, INCLUDING BOLTS, HOLES, SCREWS, SHOTPINS, WELDS, TACK WELDS (PERMANENT OR TEMPORARY) ARE PROHIBITED WITHIN THE REGION SHOWN WITH YELLOW STRIPS. IT IS A VIOLATION OF THE CODE TO MAKE SUCH CONNECTIONS.

SECTION — 17
3/4" = 1'-0"

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F1	42"Ø x 6' - 0" DEEP	(16) #6 VERTS	ALTERNATE HOOKED BARS EA ROW OF TIES

PIER FOOTING SCHEDULE — 11
3/4" = 1'-0"



SECTION — 16
3/4" = 1'-0"

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
250 EAST RINCON STREET, SUITE 204
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12851 Manchester Road, Suite 120
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ARCHITECT STAMP

CONSULTANT STAMP
REGISTERED PROFESSIONAL ENGINEER
JAMES A. FITZPATRICK
No. 47762
CIVIL
STATE OF CALIFORNIA
DATE SIGNED: 02/07/25

REVISIONS

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

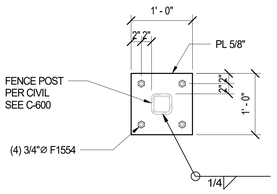
SHEET NO.
S-401

DATE: MARCH 6, 2025

CONSTRUCTION DOCUMENTS

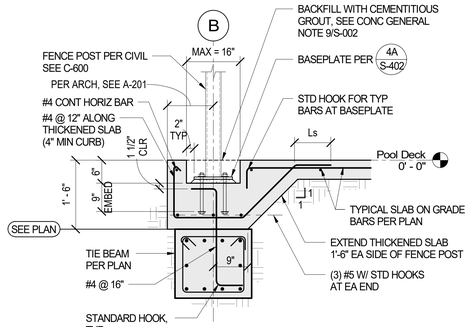
DATE PLOTTED: 7/29/2025 1:16:44 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

ISSUED: SEPTEMBER 9, 2025



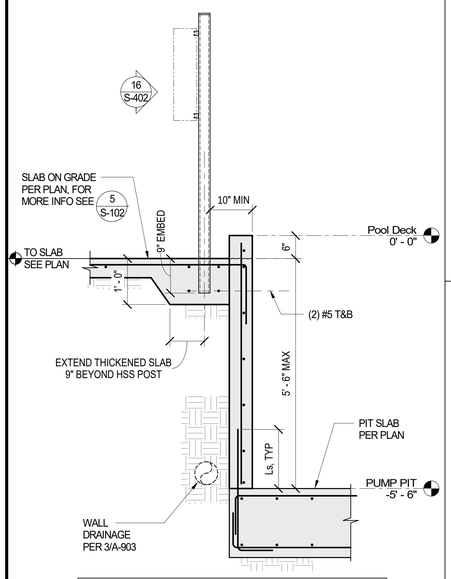
BASE PLATE DETAIL
1" = 1'-0"

4A



TYPICAL FENCE POST
3/4" = 1'-0"

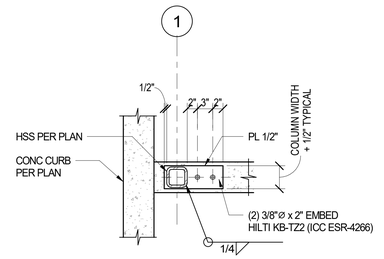
4



NOTES:
1. HSS TUBES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
2. FOR BALANCE OF INFO SEE 7 S-401

SECTION
3/4" = 1'-0"

15

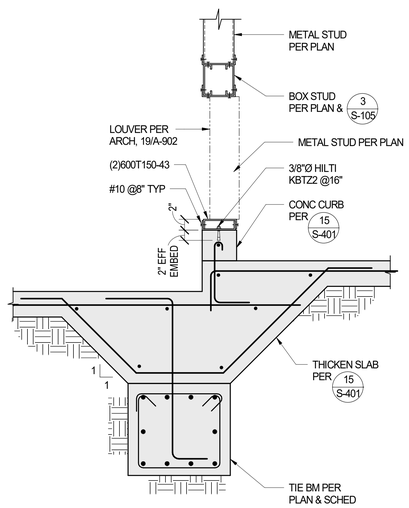


PLAN VIEW

NOTE:
SHORE POST UNTIL DETAIL 10/S-501 HAS BEEN INSTALLED.

BASE PLATE DETAIL
1" = 1'-0"

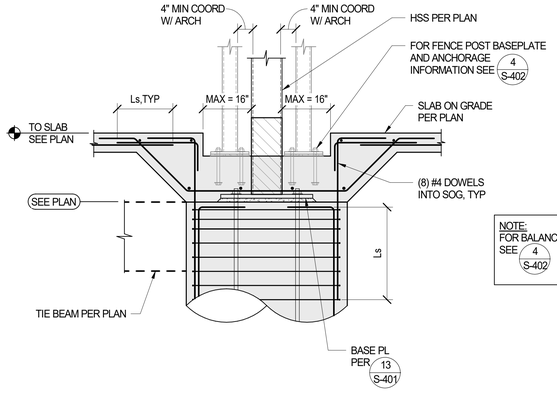
9



NOTE:
FOR BALANCE OF INFO SEE 15 S-401

SECTION
1" = 1'-0"

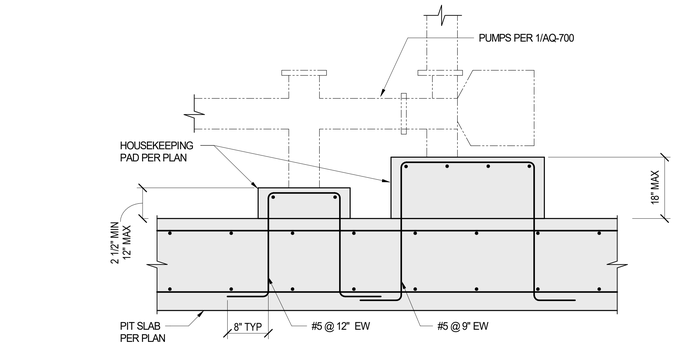
8



NOTE:
FOR BALANCE OF INFO SEE 4 S-402

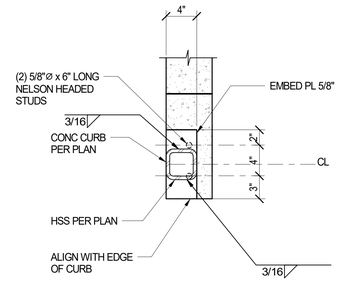
SECTION
3/4" = 1'-0"

13



TYPICAL PUMP DETAIL
1" = 1'-0"

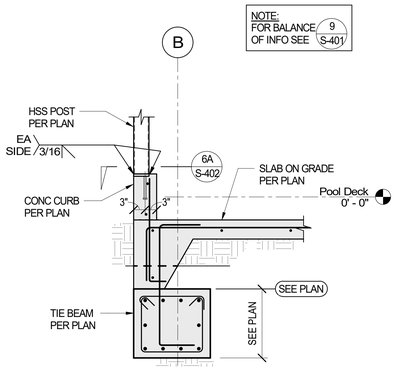
1



NOTE:
METAL STUDS NOT SHOWN FOR CLARITY. FOR MORE INFO SEE 14 S-501

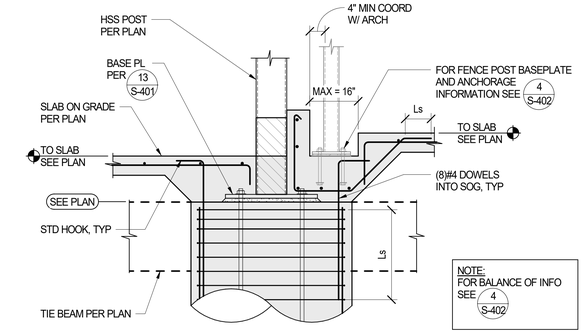
BASE PLATE DETAIL
1 1/2" = 1'-0"

6A



SECTION
3/4" = 1'-0"

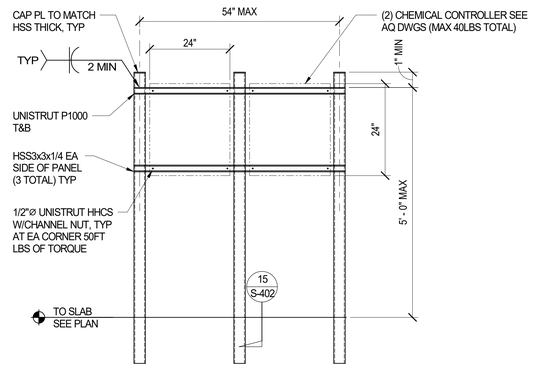
6



NOTE:
FOR BALANCE OF INFO SEE 4 S-402

SECTION
3/4" = 1'-0"

11



SECTION

16

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
JOHN A. MARTIN
No. 4760
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS
1 #

NO.	DATE	DESCRIPTION

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BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

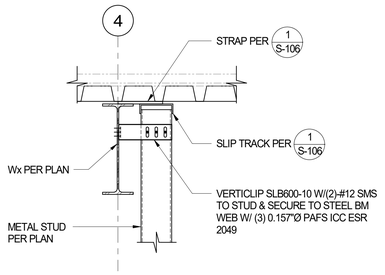
SHEET NO.
S-402

DATE: MARCH 6, 2025

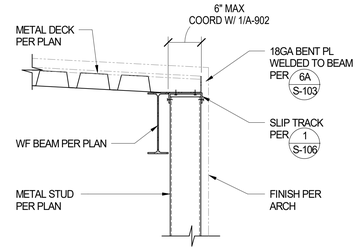
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 6/25/2025 8:30:52 AM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

ISSUED: SEPTEMBER 9, 2025

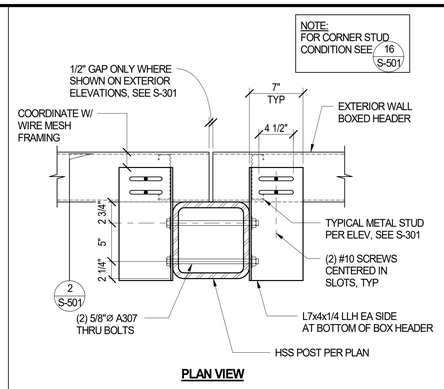


TYPICAL TOP OF EXTERIOR PARTIAL HEIGHT WALL 5
1" = 1'-0"



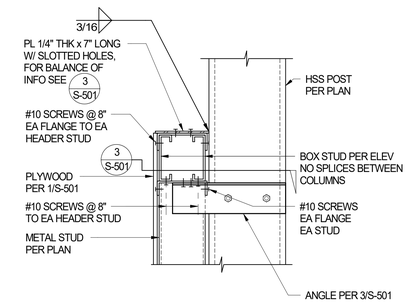
NOTE:
HOT DIP GALVANICE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL THAT ARE EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.

SECTION 4
1" = 1'-0"

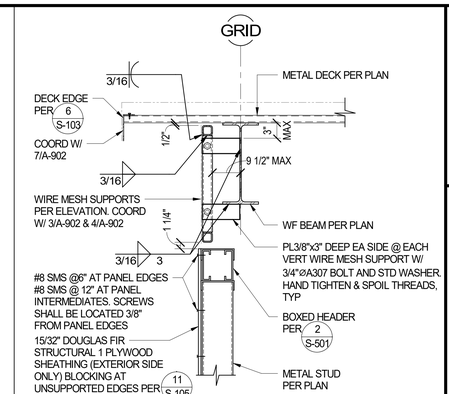


PLAN VIEW

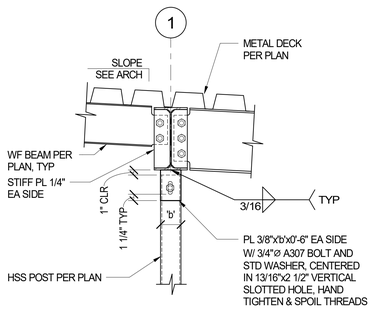
CONNECTION DETAIL 3
1 1/2" = 1'-0"



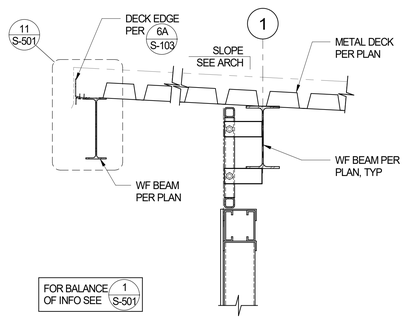
BOXED HEADER CONNECTION DETAIL 2
1 1/2" = 1'-0"



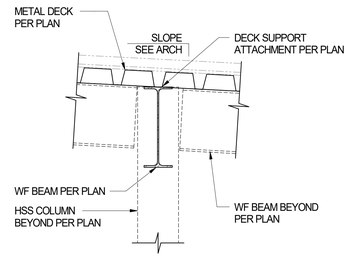
TYPICAL TOP OF EXTERIOR WALL 1
1" = 1'-0"



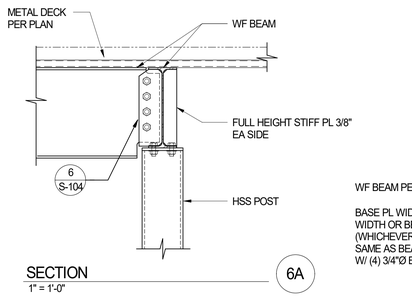
SECTION 10
1" = 1'-0"



SECTION 9
1" = 1'-0"

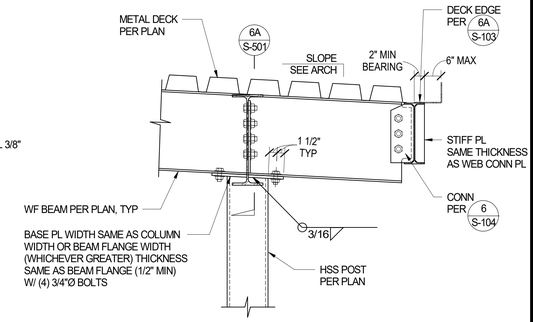


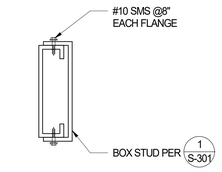
TYPICAL SLOPED ROOF AT WF BEAM 8
1" = 1'-0"



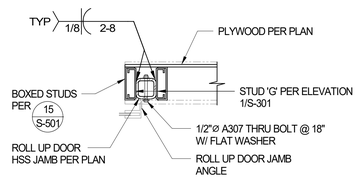
SECTION 6A
1" = 1'-0"

SECTION 6
1" = 1'-0"

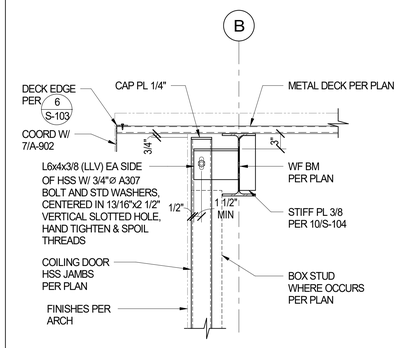




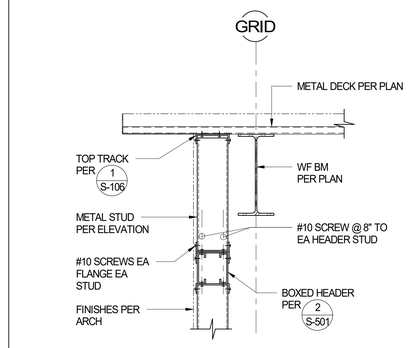
BOX JAMB DETAIL 15
3" = 1'-0"



PLAN - SECTION 14
1" = 1'-0"



SECTION 13
1" = 1'-0"



SECTION 12
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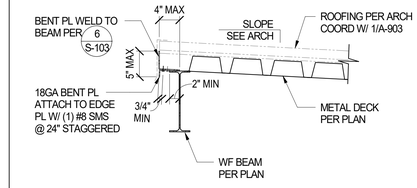
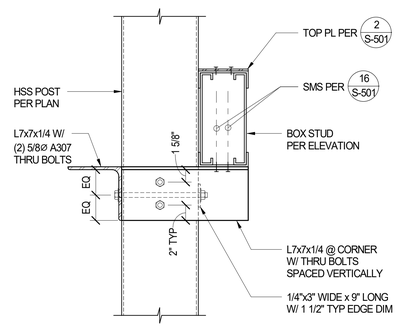
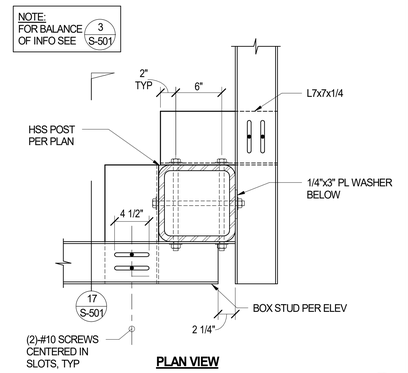


SECTION 11
1" = 1'-0"



SECTION 17
1" = 1'-0"



PLAN VIEW

CONNECTION DETAIL 16
1 1/2" = 1'-0"

AGENCY APPROVAL DSA# 03-124689

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REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. FITZPATRICK
No. 41702
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 02/07/25

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

BAKERSFIELD COLLEGE - POOL EQUIPMENT BLDG.

SHEET TITLE
SECTIONS AND DETAILS

DRAWN BY: JAMA JOB NUMBER: 23024.02

SHEET NO.
S-501

DATE: MARCH 6, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 6/25/2025 8:30:53 AM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/KCCD_BC POOL BLDG_ST_R24.rvt

ISSUED: SEPTEMBER 9, 2025

DSA NOTES

1. 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.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. 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.

3. 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:

A. 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.

B. 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 THE 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 THE ABOVE REQUIREMENTS.

2. MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK AND ELECTRICAL CONDUIT:

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

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHOD IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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.

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	PLUMBING FIXTURE CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
	EQUIPMENT CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
4" CHWR	NEW PIPE (SIZE-SERVICE)
	EXISTING PIPE/EQUIPMENT
	DEMOLISHED PIPE/EQUIPMENT
	SANITARY VENT
	DOMESTIC / INDUSTRIAL HOT WATER RETURN
	DOMESTIC / INDUSTRIAL HOT WATER SUPPLY
	DOMESTIC / INDUSTRIAL COLD WATER
	VALVE AT DROP
	VALVE AT RISE
	ELBOW DOWN
	PIPE TEE UP & DOWN OR ELBOW UP
	PIPE TEE DOWN
	PIPE TEE UP
S	SOLENOID VALVE
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE, SWING
	PLUG VALVE
	STRAINER, Y-TYPE
FM	FLOW METER
	BACKFLOW PREVENTER
	HOSE BIBB
	FLOOR DRAIN
	FLOOR SINK, 1/2 GRATE
	AREA DRAIN / INDUSTRIAL RECEPTOR
	SHUT-OFF VALVE IN YARDBOX
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	WALL CLEANOUT
	WATER HAMMER ARRESTOR
	TRAP PRIMER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
@	AT
A/C	ABOVE CEILING
ABV	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFSR	AUTOMATIC FIRE SPRINKLER RISER
B/F	BELOW FLOOR
B/G	BELOW GRADE
BEL	BELOW
BFP	BACKFLOW PREVENTER
BTM	BOTTOM
BV	BALL VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CLG	CEILING
COTG	CLEAN-OUT TO GRADE
CU	CUBIC
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING(S)
EQUIP	EQUIPMENT
EWC	ELECTRICAL WATER COOLER
EXIST / (E)	EXISTING
F/A	FROM ABOVE
F/B	FROM BELOW
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FM	FORCE MAIN
FS	FLOOR SINK
FT	FEET
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
H&CW	HOT AND COLD WATER
H/L	HIGH LEVEL
HDR	HEADER
IN	INCHES
L or LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
MTD	MOUNTED
NTS	NOT TO SCALE
OS & Y	OPEN SCREW AND YOKE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RI & C	ROUGH-IN AND CONNECT
SOV	SHUT-OFF VALVE
SQ	SQUARE
SS	SERVICE SINK
T/A	TO ABOVE
T/B	TO BELOW
TP	TRAP PRIMER
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VTR	VENT THRU ROOF
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR

PIPE SYSTEM ABBREVIATIONS

ABBREVIATION	DESCRIPTION
CD	CONDENSATE DRAIN
CW	DOMESTIC COLD WATER
F	FIRE PROTECTION WATER SUPPLY
G	LOW PRESSURE NATURAL GAS
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
IHWR	INDUSTRIAL HOT WATER RETURN
IW	INDIRECT WASTE
MPG	MEDIUM PRESSURE GAS
OD	OVERFLOW DRAIN
S	SANITARY
SD	STORM DRAIN
SSD	SUB SOIL DRAINAGE
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
V	VENT
W	WASTE

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2022 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN. YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).

2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.

3. WHERE USED, THE TERM 'PROVIDE' SHALL MEAN "FURNISH AND INSTALL".

4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.

5. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.

6. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL PLUMBING SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.

7. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD OR REVIT.

8. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE FACILITY TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL, OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE FACILITY INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.

9. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND / OR ADDITIONS.

10. PIPING THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. W1001. SEE ARCHITECTURAL PLANS FOR ALL WALL LOCATIONS.

11. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

12. ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.

13. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.

14. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

15. ALL SOIL, WASTE, STORM DRAIN, ACID WASTE, GREASE WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.

16. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIXTURES. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.

17. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, ROOF, OVERFLOW DRAINS AND FLOOR SINKS.

18. PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN THE FOLLOWING LOCATIONS (ONLY NON-FERROUS ARRESTORS MAY BE INSTALLED IN ANY WATER SYSTEM):

   A. WATER LINES TO LAVATORY HEADERS, WATER CLOSET AND URINAL HEADERS, SERVICE SINKS, KITCHEN SINKS, WASH FOUNTAINS, DRINKING FOUNTAINS, LABORATORIES WITH MEDICAL TYPE FAUCETS AND ON WASH SINKS HAVING 3 OR MORE STATIONS AND ALL OTHER QUICK CLOSING FIXTURE SUCH AS CLOTHES WASHERS, AS CLOSE TO FIXTURE AS POSSIBLE.

   B. BETWEEN LAST 2 FIXTURES WHEN 3 OR MORE FIXTURES, OTHER THAN THOSE LISTED IN "A" ABOVE, ARE SERVED BY A COMMON HEADER.

   C. WHEN ARRESTOR SHALL BE INSTALLED IN WALL OR FURRING, FURNISH WITH AN ACCESS PLATE LARGE ENOUGH TO PERMIT REMOVAL OF ARRESTOR. ACCESS PLATE SHALL BE A MINIMUM OF 2 INCHES LARGER IN EACH DIRECTION THAN ARRESTOR AND MINIMUM 12" X 12"

19. CLEANOUTS SHALL BE PROVIDED PER 2022 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING LOCATIONS:

   D. AT EACH BASE OF ROOF DRAIN DOWNSPOUTS.

   E. AT EACH BASE OF WASTE STACK.

   F. AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING .

   G. AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.

   H. AT EACH HORIZONTAL DRAINAGE PIPE UPPER TERMINAL

   I. ABOVE EACH URINAL.

   J. BELOW EACH SINK.

20. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET CALGREEN MANDATORY REQUIREMENT OF 20% REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3.

21. UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO STRUCTURAL ELEMENTS BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO START WORK.

SHEET INDEX

SHEET	DESCRIPTION
P-001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
P-002	SCHEDULES
P-101	SITE PLAN
P-301	ENLARGED PLUMBING PLAN
P-302	ENLARGED PLUMBING PLAN
P-601	DETAILS
P-602	DETAILS
P-603	DETAILS

AGENCY APPROVAL DSA# 03-124689

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REGISTERED PROFESSIONAL ENGINEER — JOSE BAZTELICA — No. 21308 — STATE OF CALIFORNIA
SIGNED: 02/28/2025

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
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Bakersfield College - Pool Equipment Building

SHEET TITLE
GENERAL NOTES, LEGEND, ABBREVIATIONS & SHEETS INDEX

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.
P-001

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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ISSUED: SEPTEMBER 9, 2025

FIXTURE LOAD CALCULATION -POOL BLDG

BASIS: 2022 CPC APPENDIX "A" TABLE A-2 (WATER SUPPLY FIXTURE UNITS) & CHAPTER 7 TABLE 702.1 (DRAINAGE FIXTURE UNIT VALUES). VOLUME BASED ON "PUBLIC" VALUES

FIXTURE	QTY. @ 1ST FLR.	QTY. @ ROOF	QTY. TOTAL	COLD WATER		HOT WATER		SANITARY DRAINAGE/WASTE	
				FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU
EMERGENCY EYE/SHOWER	2		2	18	36.0	15	30.0	2.0	4.0
FLOOR DRAIN	7		7					2.0	14.0
FLOOR SINK	4		4					2.0	8.0
HOSE BIBB (1st)	1		1	2.5	2.5				
HOSE BIBB (each additional)	3		3	1.0	3.0				
TOTAL FIXTURE UNITS					41.5		30.0		26.0
CONTINUOUS FLOW (GPM)					285		0.0		0.0
TOTAL DEMAND - GPM					315		28		52

DOMESTIC WATER CALCULATION - POOL BLDG.

PRESSURE AVAILABLE :

MINIMUM	= 65 PSI	MAX. VELOCITY	= 8	F/S (COLD)	
MAXIMUM	= 75 PSI	MAX. VELOCITY	= 5	F/S (HOT)	
DOMESTIC WATER DEMAND :	= 315 GPM (TOTAL BUILDING DEMAND)				
WATER PRESSURE INFO OBTAINED BY: -					

PRESSURE LOSS

1	PRESSURE REQUIRED AT THE FARTHEST FIXTURE	25	PSI
2	PRESSURE LOSS DUE TO METER LOSS @ CAMPUS MAIN	6	PSI
3	PRESSURE LOSS THRU BACKFLOW DEVICE @ CAMPUS MAIN	10	PSI
4	PRESSURE LOSS THRU PRESSURE REDUCING VALVE @ BLDG. SUPPLY	7	PSI
5	STATIC HEAD LOSS	5	PSI
6	TOTAL PRESSURE LOSS	53	PSI
	LOSS AVAILABLE FOR FRICTION		
7	MIN PRESSURE AVAILABLE - ITEM 6	12	PSI
	LENGTH OF RUN FROM METER TO FARTHEST FIXTURE		
	OUTSIDE BUILDING	250	FT
	INSIDE BUILDING	50	FT
8	TOTAL LENGTH	300	FT
	EQUIVALENT LENGTH OF RUN		
9	ITEM 8 + 15%	345	FT
	ALLOWABLE FRICTION LOSS		
10	ITEM 7 X 100 / ITEM 8	3.48	PSI/100 FT

PIPE SIZE CHART FOR COLD WATER SIZING AT 8 F/S MAX VELOCITY

PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2 1/2	3	4
GPM	1	5	10	17	28	58	100	165	290
FU (FT)	0	6	13	24	49	165	380	719	1668
FU (FV)	0	0	0	0	11	69	245	666	1668
VEL (FPS)	1.63	3.63	4.09	4.44	5.08	5.92	6.54	7.49	7.40

PIPE SIZE CHART FOR HOT WATER SIZING AT 5 F/S MAX VELOCITY

PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
GPM	1	5	10	17	27	48	74	105	185
FU (FT)	0	6	13	24	46	119	245	406	840
VEL (FPS)	1.63	3.63	4.09	4.44	4.90	4.90	4.84	4.77	4.72

GAS LOAD - POOL EQUIP. BLDG.

SYSTEM PRESSURE: 8"w.c. DOWNSTREAM OF THE GAS REGULATOR ASSEMBLY. TOTAL DEVELOPED LENGTH: 50 FT. (INCLUDES 20% FOR FITTINGS)

DESCRIPTION	QTY.	CFH	TOTAL (CFH)
POOL EQUIPMENT - REFER TO AQUATIC CONSULTANT SHEET MR.1			
POOL BOILERS (H-1 & H-2)	2	1750	3500
POOL BOILER (H-3)	1	2000	2000
TOTAL			5500

NATURAL GAS SIZING TABLE-LPG

BASED ON 2022 CPC, TABLE 1216.2(1) - (<2 PSI PRESSURE) DOWNSTREAM OF GAS PRESSURE REGULATOR

TOTAL PIPE LENGTH (FT.) = 40	
PIPE SIZE	MAX. CFH
1/2"	81
3/4"	170
1"	320
1-1/4"	657
1-1/2"	985
2"	1900
2-1/2"	3020
3"	5350
4"	10900
6"	19700

FIXTURE SCHEDULE

PLUMBING FIXTURE TAG	FIXTURE	MINIMUM PLUMBING ROUGH-INS						FLOW RATE	REMARKS
		CW	HW	S / W	V	AW	GAS		
FD-1	FLOOR DRAIN	1/2"	-	3"	2"	-	-	-	WATTS MODEL FD-1100-A EPOXY COATED CAST IRON DRAIN WITH ROUND STAINLESS STEEL STRAINER, CLAMPING COLLAR, TRAP PRIMER CONNECTION AND P-TRAP. PROVIDE WATTS MODEL FD-100-H WITH ELASTOMERIC FLANGE FOR ALL EPOXY FLOOR CONDITIONS.
FD-2	FLOOR DRAIN	1/2"	-	6"	3"	-	-	-	WATTS MODEL FD-1100-A EPOXY COATED CAST IRON DRAIN WITH ROUND STAINLESS STEEL STRAINER, CLAMPING COLLAR, TRAP PRIMER CONNECTION AND P-TRAP. PROVIDE WATTS MODEL FD-100-H WITH ELASTOMERIC FLANGE FOR ALL EPOXY FLOOR CONDITIONS.
FS-1	FLOOR SINK	1/2"	-	3"	2"	-	-	-	WATTS MODEL FS-740. COMPLETE WITH DEEP CAST IRON DRAIN, ACID-RESISTANT PORCELAIN ENAMEL COATED INTERIOR, NICKEL BRONZE FRAME/GRATE, HALF GRATE, TRAP PRIMER CONNECTION AND P-TRAP. DIMENSIONS: 12" x 12" x 8" DEEP. REFER TO DETAIL 2/P6.01.
HB-1	HOSE BIBB RESTROOM (RECESSED)	3/4"	-	-	-	-	-	-	ACORN HOSE BIBB MODEL NO. #8151-SSLF, SINGLE TEMPERATURE WITH VACUUM BREAKER, LEAD FREE STAINLESS STEEL RECESSED HOSE BOX SINGLE TEMPERATURE, 3/4" SUPPLY CONNECTION.
ETP-1	TRAP PRIMER (ELECTRONIC TYPE)	1/2"	-	-	-	-	-	-	P.P.P. PRIME-TIME MODEL PT-4, 4 OPENING MANIFOLD THRU PT-6, 6 OPENING MANIFOLD AS REQUIRED. FLUSH MOUNT CABINET CONFIGURATION. COMPLETE WITH ATMOSPHERIC VACUUM BREAKER, PRESET 24 HOUR CLOCK, 120V/220V SOLENOID VALVE AND STAINLESS STEEL COVER. 1/2" OUTLET COMPRESSION FITTING. PROVIDE COPPER TYPE "L" LINE TO RECEPTORS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. (120V/60H/1PH)
EEW-1	EMERGENCY EYE WASH/SHOWER	1-1/2"	-	-	-	-	-	-	HAWS MODEL NO. #8336, EYE/FACE WASH, CORROSION RESISTANT PVC PLASTIC COMBINATION SHOWER AND EYE/FACE WASH.COMPLETE WITH THERMOSTATIC MIXING VALVE MODEL #9201E AND SHOWER HEAD MODEL #SP829SS STAINLESS STEEL SHOWERHEAD WITH INTEGRAL 20 GPM FLOW CONTROL.
BFP-1	BACKFLOW PREVENTER	1"	-	-	-	-	-	-	ZURN MODEL 975XL2, LOW LEAD CAST BRONZE ASTM B 584, MAXIMUM WORKING PRESSURE 175 PSI AND MAXIMUM WORKING TEMPERATURE 180°F. REFER TO DETAIL 2/P-602.
BFP-2	BACKFLOW PREVENTER	6"	-	-	-	-	-	-	ZURN MODEL 375AST, LEAD-FREE, STAINLESS STEEL BODY, MAXIMUM WORKING PRESSURE 175 PSI AND MAXIMUM WORKING TEMPERATURE 140 DEGREE FAHRENHEIT. REFER TO DETAIL 1/P-602.
WM-1	WATER METER	6"	-	-	-	-	-	-	BADGER WATER METER TFX-5000, FLOW METER, OUTDOOR BELOW GRADE IN YARD BOX INSTALLATION, 6" IN PIPE SIZE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENT.
WM-2	WATER METER	6"	-	-	-	-	-	-	BADGER WATER METER M2000, INLINE FLOW METER, WALL MOUNTED, STAINLESS STEEL TUBE LINED WITH A NON CONDUCTIVE MATERIAL, 6" IN PIPE SIZE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENT.

NOTE:

A. ALL FIXTURES SHALL BE PROVIDED WITH MINIMUM ROUGH-IN CONNECTIONS AS INDICATED IN THIS SCHEDULE OR PER MANUFACTURERS RECOMMENDATIONS. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES. PLUMBING CONTRACTOR SHALL FURNISH AND SHALL ALL TRIMS, FLUSH VALVES, TAILPIECES, STRAINERS, P-TRAPS, TRAP ARMS, HOT & COLD WATER STOPS AND FAUCETS AS REQUIRED.

B. OPENINGS IN GRATINGS OR STRAINERS LOCATED IN PEDESTRIAN WAYS OR IN PATH OF TRAVEL (P.O.T.) SHALL NOT ALLOW PASSAGES OF A SPHERE MORE THAN 1/2" DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL IN COMPLIANCE WITH SECTION 11B-302.3.

C. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND SPECIFICATION SECTION 22 1000.

PIPING MATERIALS

1.	DRAIN PIPING SANITARY AND SEWER WASTE BELOW GRADE:	CAST IRON 'NO-HUB' PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND HEAVY DUTY, SHIELDED, STAINLESS-STEEL 4 OR 6 BAND COUPLINGS. PIPE WRAP ALL UNDERGROUND PIPING.
2.	DRAIN PIPING SANITARY AND SEWER WASTE ABOVE GRADE:	CAST IRON 'NO-HUB' PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND HEAVY DUTY, SHIELDED, STAINLESS-STEEL 4 OR 6 BAND COUPLINGS.
3.	VENT PIPING FOR SEWER WASTE ABOVE GRADE:	CAST IRON 'NO-HUB' PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND STANDARD, SHIELDED, STAINLESS-STEEL 2 OR 4 BAND COUPLINGS.
4.	DOMESTIC WATER PIPING BELOW GRADE:	TYPE 'K' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER FITTINGS AND LEAD-FREE BRAZED JOINTS. AVOID UNNECESSARY JOINTS BELOW SLAB. PIPE WRAP ALL UNDERGROUND PIPING.
5.	DOMESTIC WATER PIPING ABOVE GRADE:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD-FREE SOLDER JOINTS.
6.	EXTERIOR EXPOSED PIPING:	TYPE 316L STAINLESS STEEL CHEMICAL WASTE PIPE WITH TYPE 316L STAINLESS STEEL PRESS FITTING, MARKED WITH MANUFACTURER'S IDENTIFICATION AND FITTINGS. MANUFACTURERS REPRESENTATIVE SHALL INSTRUCT INSTALLERS AND CERTIFY THEM FOR JOINT INSTALLATION. PIPING SYSTEM SHALL BE PROVIDED WITH A FIVE-YEAR MANUFACTURER'S MATERIAL WARRANTY.
7.	INSULATION OF DOMESTIC HOT/TEMPERED/TEPID WATER PIPING:	GLASS FIBER PIPE INSULATION WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547. 1-INCH THICK FOR PIPE SIZES 1" & SMALLER. 1½-INCH THICK FOR PIPE SIZES 1¼" INCHES & LARGER. SEAL ALL JOINTS WITH THE FACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS. JOHNS MANVILLE MICRO-LOK HP OR EQUAL.
8.	PIPE PROTECTION: ALL UNDERGROUND METALLIC PIPE WETHER BURIED OR ENCASED SHALL BE WRAPPED WITH ANTI-CORROSIVE 20 MIL PVC TAPE AND PRIMED OR INSTALLED IN 8 MIL POLYETHYLENE SLEEVE CONFORMING TO ASTM D-1248 AND/OR ANSI/AWWA C105/A21.5.	
9.	PIPE PROTECTION: PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS. LEAD FREE BRASS UNIONS WITH 6-INCH LEAD FREE BRASS NIPPLE.	
10.	TRACER WIRE: ALL UNDERGROUND PLASTIC PIPE SHALL BE INSTALLED WITH BARE COPPER WIRE, TYPE TW, SIZE AWG#12 PLACED AND SECURED ON TO THE TOP OF THE MAINS AND BRANCHES WITH ALL WIRE TO WIRE CONNECTIONS SOLDERED FOR CONTINUITY.	
11.	QUALITY ASSURANCE: THE PIPING SYSTEMS SHALL BE CONSTRUCTED FROM MATERIALS EXTRUDED AND MOLDED USING THE SAME COMPOUND MANUFACTURER.	
12.	QUALITY ASSURANCE: BOTH THE PIPE AND FITTINGS SHALL BE MANUFACTURED IN AMERICA AND MEET OR EXCEED THE REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61.	

DOMESTIC EXPANSION TANK SCHEDULE

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	TANK VOLUME (GAL.)	ACCEPT. VOLUME (GAL.)	CHARGING PRESSURE (PSIG)	WORKING PRESSURE (PSIG)	OPER. TEMP. (°F)	TANK SIZE		SYSTEM CONN. SIZE (NPT)	OPER. WEIGHT (LBS)	REF. DETAIL (DWG)	REMARKS
										DIA. (IN)	HGT. (IN)				
DET-1	AMTROL THERM-X-TROL MODEL ST-12-C	POOL EQUIPMENT RM - 101	IN-LINE	EWH-1	6.4	3.2	40	150	200	12	13-3/8	3/4"	71	4/P-601	CONSTRUCTION PER ASME BOILER PRESSURE VESSEL CODE STEEL CONSTRUCTION. PRE-CHARGED 55 PSIG. PROVIDE AMTROL FILL-TROL VALVE AS PART OF THE INSTALLATION. TANK PRESSURE SHALL BE SET TO MATCH INCOMING SUPPLY PRESSURE TO BUILDING.

ELECTRIC WATER HEATER

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	STORAGE CAPACITY	RECOVERY @ 60 ° Δ (GPH)	INLET TEMP °F	OUTLET TEMP °F	ELECTRICAL			OPER. WEIGHT (LBS)	REF. DETAIL (DWG)	REMARKS
								KW	VOLT	PH			
EWH-1	BRADFORD WHITE MODEL CEHD-120(A)143*CF	POOL EQUIPMENT RM - 101	TANK TYPE	119 GALLONS	93	60	120	14	480	3	1,480	5/P-601	LIGHT DUTY, COMMERCIAL, ASME RATED TEMP. & PRESS. RELIEF VALVE & DRAIN VALVE. PROVIDE WITH REQUIRED ELECTRICAL CONVERSION KIT. 1-1/2" WATER CONNECTIONS. PROVIDE FACTORY WALL BRACKET FOR MOUNTING AND INSTALL AS HIGH AS POSSIBLE IN ROOM. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.

THERMOSTATIC MIXING VALVE

MARK	MANUFACTURER & MODEL	LOCATION	INSTALLATION	TYPE	SERVICE	FLOW RATE (GPM)	MAXIMUM PRESS. DROP (PSI)	INLET SIZE (IN)	OUTLET SIZE (IN)	CABINET DIMENSIONS			REF. DETAIL (DWG)	REMARKS
										WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)		
TMV-1	BRADLEY HL45 S59-3200-P	POOL EQUIPMENT RM - 101	WALL MTD.	THERMOSTATIC HIGH-LOW	120°F HW GENERAL AREAS	60	5.0	2	2	16-1/4	13	5-1/4	6/P-601	LEAD-FREE BRASS DESIGN WITH LIQUID FILLED THERMOSTAT, INTEGRAL STRAINER CHECKSTOPS, PIPED ASSEMBLY WITH INLET AND OUTLET SHUT-OFFS. PROVIDE TEMPERATURE GAUGE ON OUTLET PIPE. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND MANUFACTURERS PIPING DIAGRAMS.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196

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REGISTERED PROFESSIONAL ENGINEER
JOSE RAMIREZ
No. M31308
MECHANICAL
STATE OF CALIFORNIA
SIGNED: 02/28/2025

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

SCHEDULES

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

P-002

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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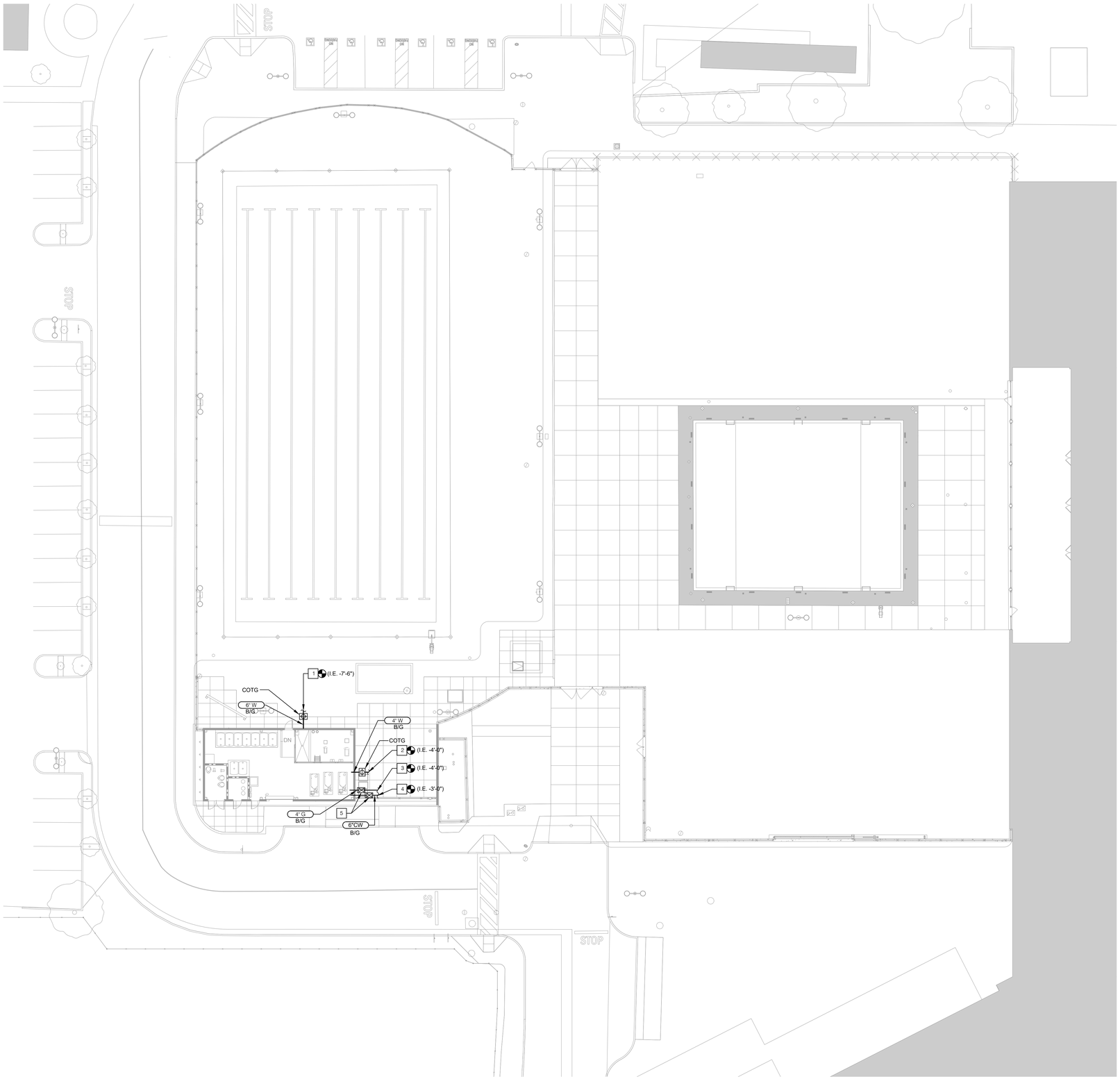

NOTES

1. POINT OF CONNECTION OF 6" SEWER TO EXISTING SEWER BELOW GRADE. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION. VERIFY EXACT LOCATION IN FIELD
2. POINT OF CONNECTION OF 4" SEWER TO EXISTING SEWER BELOW GRADE. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION. VERIFY EXACT LOCATION IN FIELD
3. POINT OF CONNECTION OF 4" GAS TO EXISTING GAS BELOW GRADE. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION. VERIFY EXACT LOCATION IN FIELD
4. POINT OF CONNECTION OF 4" CW TO EXISTING CW BELOW GRADE. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION. VERIFY EXACT LOCATION IN FIELD
5. PROVIDE COLD WATER AND GAS SHUTOFF VALVE IN YARD BOX.

SCALE: 1/16" = 1'-0"
0 16

AGENCY APPROVAL DSA# 03-124689

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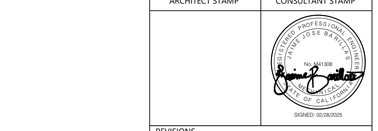

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Bakersfield College - Pool Equipment Building

SHEET TITLE

SITE PLAN

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

P-101

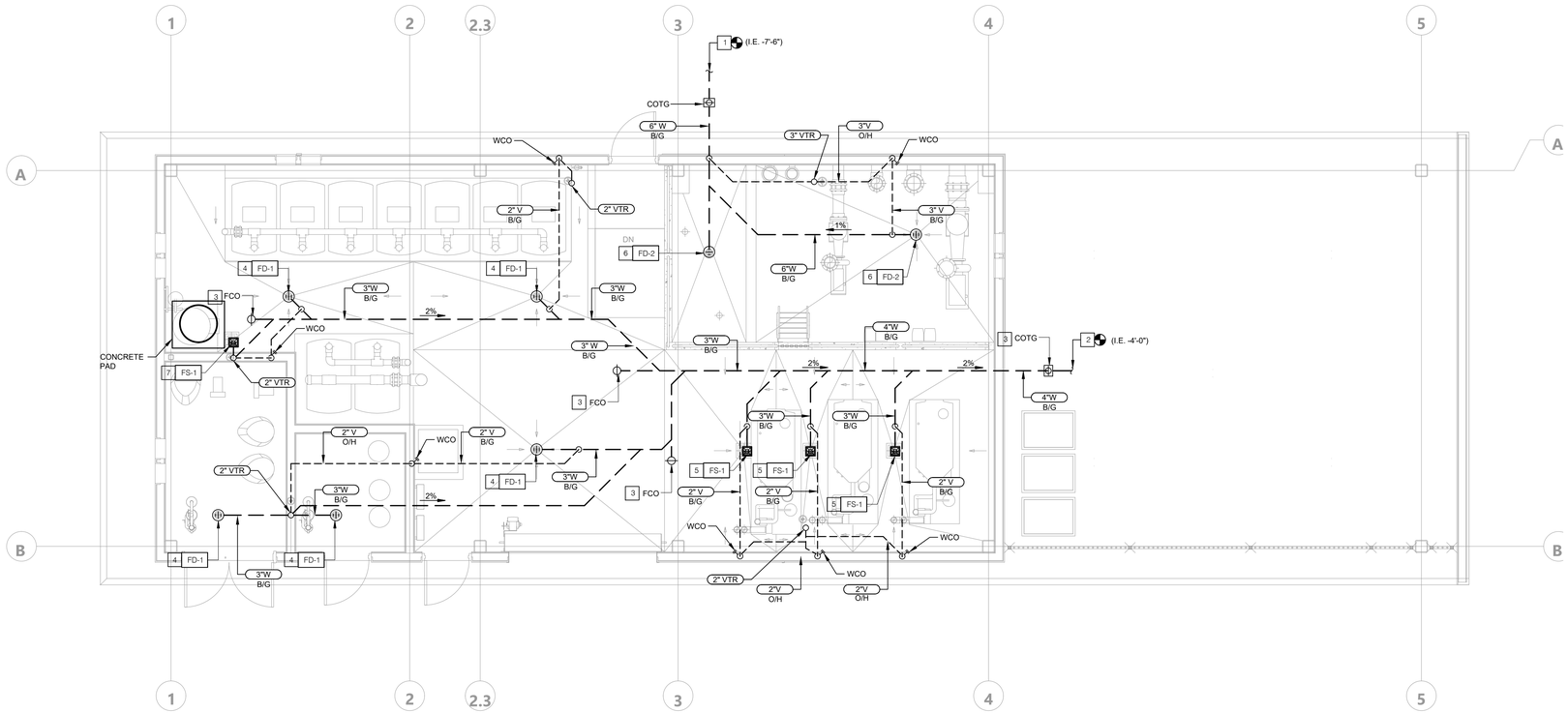
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

ISSUED: SEPTEMBER 9, 2025

NOTES

1. POINT OF CONNECTION OF 6" SEWER TO EXISTING SEWER BELOW GRADE. REFER TO SHEET P-101.
2. POINT OF CONNECTION OF 4" SEWER TO EXISTING SEWER BELOW GRADE. REFER TO SHEET P-101.
3. FLOOR CLEAN OUT AND CLEANOUT THROUGH GRADE. REFER TO DETAIL 3/P-601.
4. PROVIDE 3" SEWER DOWN AND 2" VENT UP TO SERVE FLOOR DRAIN (FD-1). REFER TO DETAIL 1/P-601
5. PROVIDE 3" SEWER DOWN AND 2" VENT UP TO SERVE FLOOR SINK (FS-1). REFER TO DETAIL 2/P-601
6. PROVIDE 6" SEWER DOWN AND 3" VENT UP TO SERVE FLOOR DRAIN (FD-2). REFER TO DETAIL 3/P-601
7. PROVIDE 3" SEWER DOWN AND 2" VENT UP TO SERVE FLOOR SINK (FS-1). 3/4" CONDENSATE DRAIN DISCHARGE FROM WATER HEATER TO FLOOR SINK VIA 6" AIR GAP.



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

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ENLARGED PLUMBING PLAN

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

P-301

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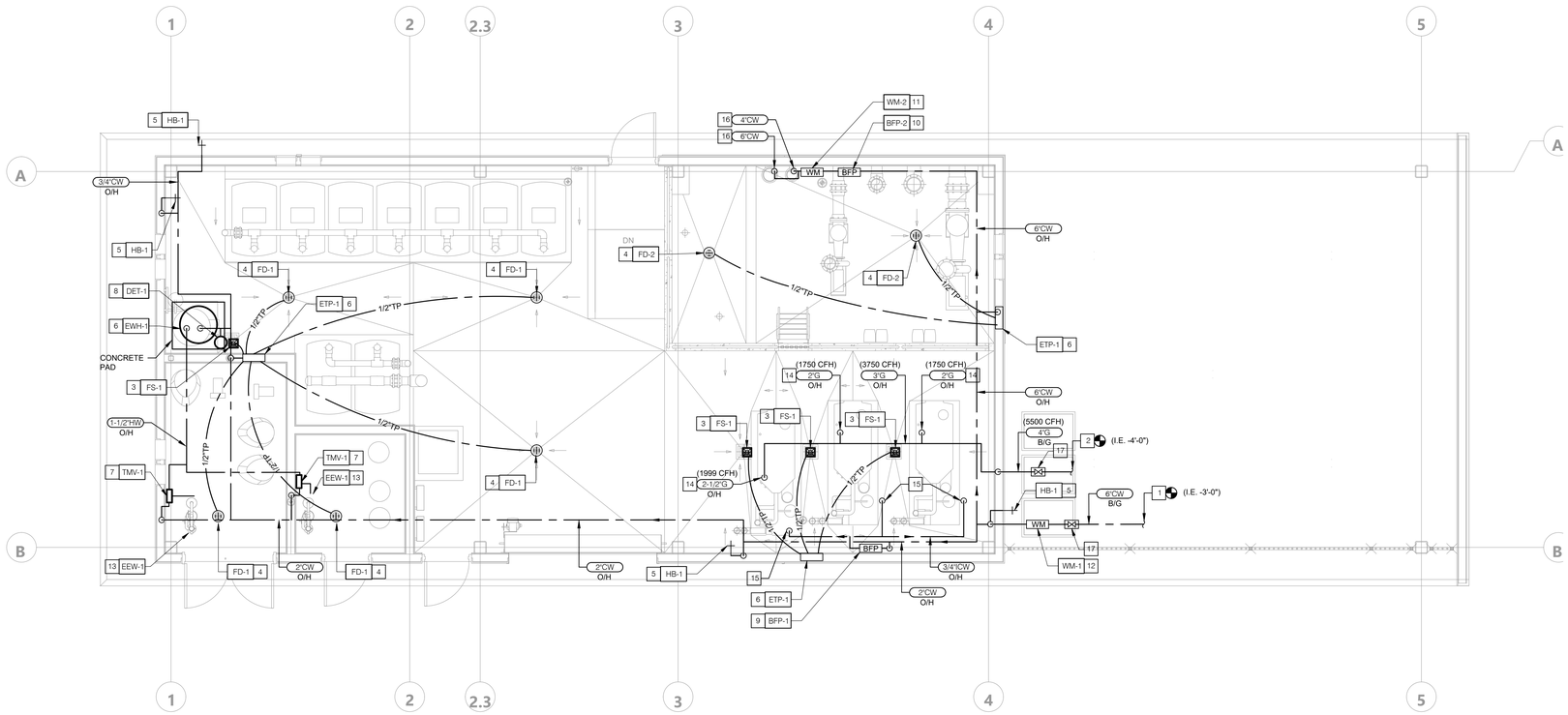
ISSUED: SEPTEMBER 9, 2025

NOTES

1. POINT OF CONNECTION OF 6" CW TO EXISTING CW BELOW GRADE. VERIFY EXACT LOCATION IN FIELD
2. POINT OF CONNECTION OF 4" GAS TO EXISTING GAS BELOW GRADE. VERIFY EXACT LOCATION IN FIELD
3. PROVIDE 1/2" TP BELOW FLOOR FROM TRAP PRIMER (ETP-1) TO SERVE FLOOR SINK (FS-1). REFER TO DETAIL 2/P-601 AND 5/P-602.
4. PROVIDE 1/2" TP BELOW FLOOR FROM TRAP PRIMER (ETP-1) TO SERVE FLOOR SINK (FD-1). REFER TO DETAIL 1/P-601 AND 5/P-602.
5. PROVIDE 3/4" CW TO SERVE HOSE BIBB (HB-1). REFER TO DETAIL 6/P602.
6. PROVIDE 1-1/2" CW AND HW CONNECTION TO ELECTRIC WATER HEATER (EWH-1) WITH SHUT OFF VALVE ON THE RISER. REFER TO DETAIL 5/P601.
7. PROVIDE 1-1/2" CW AND HW CONNECTION TO THERMOSTATIC MIXING VALVE (TMV-1) AND 1-1/2" TEMPERED WATER CONNECTION TO EMERGENCY EYEWASH AND SHOWER. PROVIDE SHUT OFF VALVE. REFER TO DETAIL 6/P-601.
8. EXPANSION TANK WALL MOUNTED. REFER TO DETAIL 4/P-601.
9. PROVIDE 1" COLD WATER CONNECTION TO WALL MOUNTED BFP-1. REFER TO DETAIL 1/P-602.
10. PROVIDE 6" COLD WATER CONNECTION TO WALL MOUNTED BFP-1. REFER TO DETAIL 1/P-602.
11. PROVIDE WATER METER ON THE WALL.
12. PROVIDE WATER METER IN THE YARD BOX.
13. PROVIDE 1-1/2" TEMPERED WATER CONNECTION TO EMERGENCY EYEWASH AND SHOWER STATION.
14. CONNECT GAS TO POOL HEATER WITH SHUT OFF VALVE. REFER TO FLOOR PLAN FOR SIZES. COORDINATE EXACT LOCATION WITH POOL EQUIPMENT CONTRACTOR.
15. PROVIDE 3/4" MAKE UP WATER CONNECTION WITH SHUT OFF VALVE TO POOL HEATER. COORDINATE EXACT LOCATION WITH POOL EQUIPMENT CONTRACTOR.
16. PROVIDE COLD WATER CONNECTION TO FILL FUNNEL VIA 6" AIR GAP. SEE FLOOR PLAN FOR SIZES.
17. COLD WATER AND GAS SHUT OFF VALVE IN THE YARD BOX.



196

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

CONSULTANTS

CIVIL ENGINEER
BLAIR, CHURCH & FLYNN
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CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
JOSE BALTAZAR
No. M31308
CIVIL
STATE OF CALIFORNIA
SIGNED: 08/28/2025

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

ENLARGED PLUMBING PLAN

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

P-302

DATE: MARCH 7, 2025

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

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 5/23/2024 2:31:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

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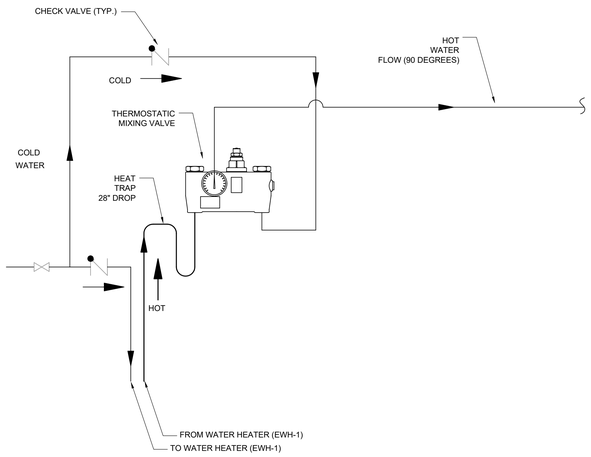
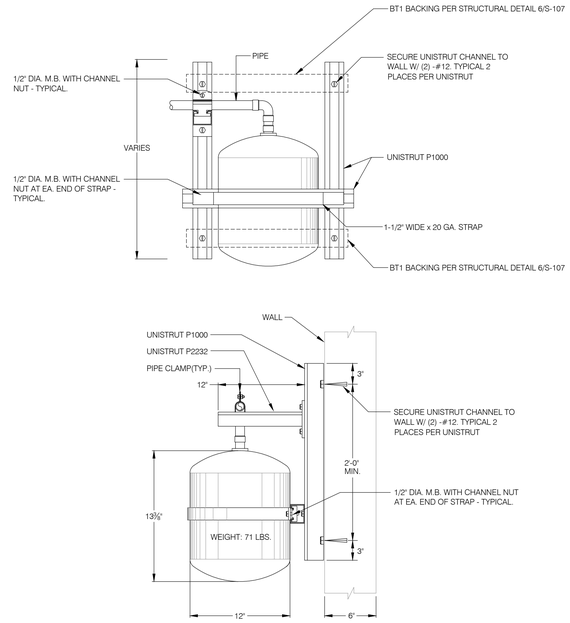


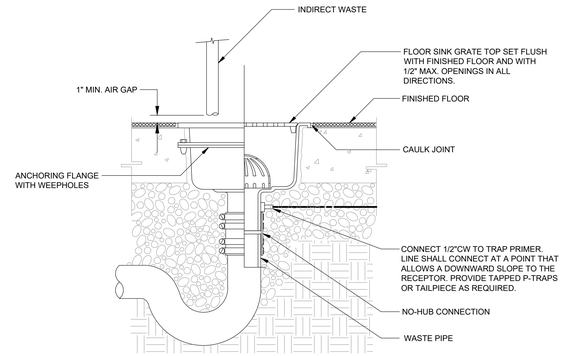
6 THERMOSTATIC MIXING VALVE PIPING DIAGRAM (TMV-1)

NO SCALE



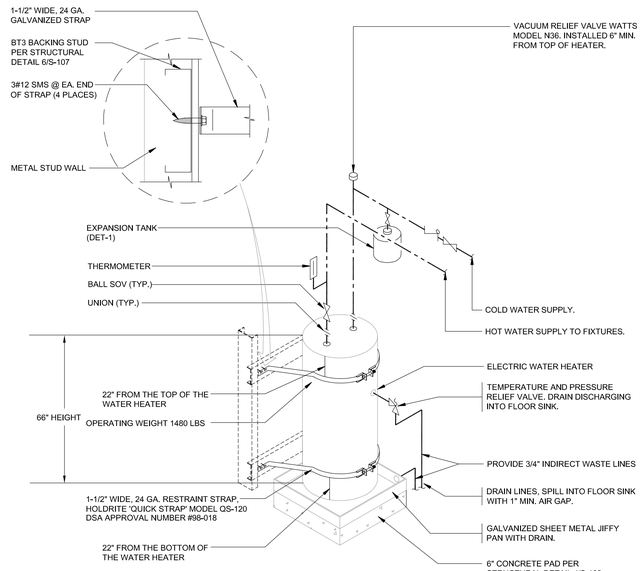
4 EXPANSION TANK DETAIL (DET-1)

NO SCALE



2 FLOOR SINK INSTALLATION DETAIL (FS-1)

NO SCALE

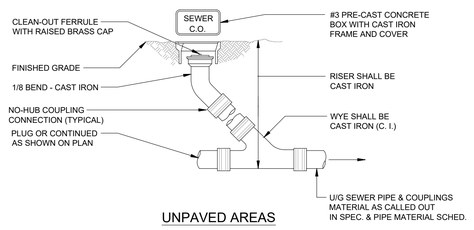


DETAIL NOTES:

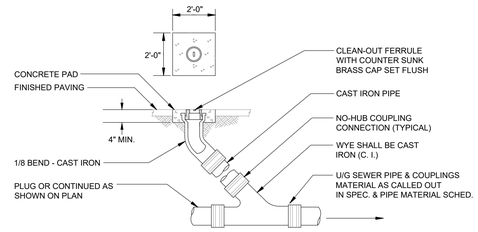
1. INSTALL UPPER RESTRAINT 9" BELOW THE TOP OF WATER HEATER AND LOWER RESTRAINT 4" ABOVE THE TOP OF THE CONTROLS.
2. ANCHOR ONE END OF EACH LENGTH OF THE STRAP (4 TOTAL) TO A SUPPORT STUD/BACKING WITH A #12 SMS. WRAP THE STRAP AROUND THE WATER HEATER AND PULL THE STRAP TIGHTLY AGAINST THE SUPPORT STUD ON THE OPPOSITE WALL.
3. SECURE EACH LENGTH OF THE STRAP (4 TOTAL) AT THE SUPPORT STUD AT THE OPPOSITE WALL WITH A SHEET METAL SCREW.
4. INSTALL WATER HEATER IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION/OPERATING MANUAL.

5 ELECTRIC WATER HEATER (EWH-1)

NO SCALE



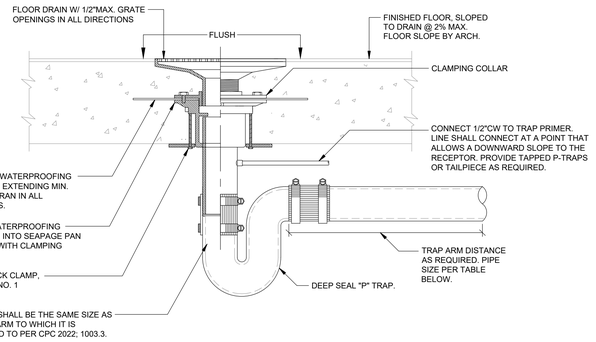
UNPAVED AREAS



PAVED AREAS

3 CLEANOUT TO GRADE DETAIL (FCO/COTG)

NO SCALE



DETAIL NOTES:

1. PROVIDE UNDER DECK CLAMP ON THIN SLAB INSTALLATIONS OF 5" OR LESS (WHERE REQUIED). SECURE CLAMP TO DRAIN.

HORIZONTAL LENGTH OF TRAP ARMS		
1-1/4"	2-1/2"	30"
1-1/2"	3"	42"
2"	4"	60"
3"	6"	72"
4"	8"	120"

PER TABLE 1002.2, 2022 CPC.

1 FLOOR DRAIN INSTALLATION DETAIL (FD-1 & FD-2)

NO SCALE

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Bakersfield College - Pool Equipment Building

SHEET TITLE

DETAILS

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

P-601

DATE: MARCH 7, 2025

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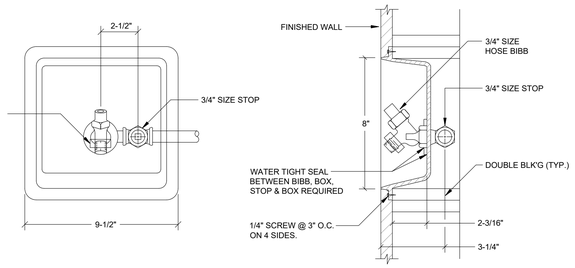
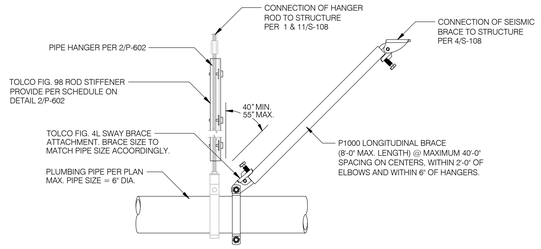


RECESSED IN CABINET

6 HOSE BIBB DETAIL (HB-1)

NO SCALE

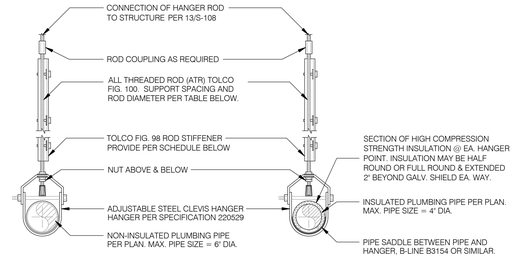


DETAIL NOTES:

1. REFER TO SPECIFICATION SECTION 220548 FOR ADDITIONAL INFORMATION.
2. GAS PIPES WITH DIAMETER GREATER THAN 1" REQUIRES SEISMIC BRACING, NOT EXEMPTED

4 LONGITUDINAL SEISMIC BRACE TO STRUCTURE

NO SCALE



PIPE HANGER SUPPORT SCHEDULE FOR PLUMBING PIPE

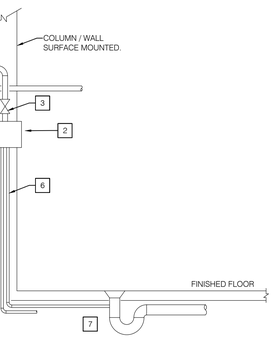
NOMINAL PIPE SIZE	MAX. HANGER SPACING	ROD SIZE DIA.	MAX. ROD LENGTH WITHOUT STIFFNER
1/2" THRU 3/4"	5'-0"	3/8"	18"
1" THRU 2"	8'-0"	1/2"	25"
2 1/2" THRU 3"	8'-0"	1/2"	25"
4" THRU 5"	8'-0"	5/8"	31"
6" THRU 8"	10'-0"	3/4"	37"

DETAIL NOTES:

1. PROVIDE PLASTIC COATED OR FELT LINED HANGERS FOR NON-INSULATED METALLIC PIPES.

2 TYPICAL SINGLE PIPE HANGER SUPPORT

NO SCALE

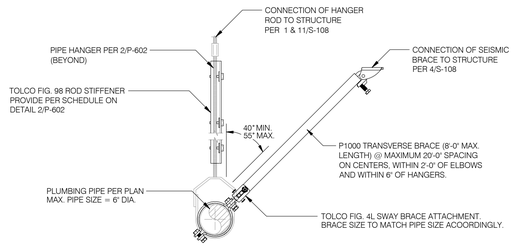


NOTES

1. MAIN COLD WATER PIPE.
2. ACCESSIBLE ACCESS PANEL IF INSTALLED IN WALL.
3. PROVIDE TOP CONNECTION FOR 1/2" COLD WATER SUPPLY PIPE WITH SHUT-OFF VALVE FROM MAIN COLD WATER PIPE.
4. REFER TO MANUFACTURERS INSTALLATION RECOMMENDATIONS FOR SPECIFIC REQUIREMENTS.
5. MI-100 SURFACE MOUNTED ENCLOSURE ELECTRONIC TRAP SEAL PRIMER SYSTEM, MULTI-PORT DISTRIBUTION UNIT.
6. COPPER TYPE 'L" 1/2" COLD WATER TRAP PRIMER PIPE IN WALL AND ROUTED TO FLOOR DRAINS OR FLOOR SINKS PLUMBING CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROTECT PIPE WHEN COVERING WITH CONCRETE, ETC.
7. FLOOR DRAIN OR FLOOR SINK WITH TRAP.

5 ELECTRONIC TRAP PRIMER (ETP-1)

NO SCALE

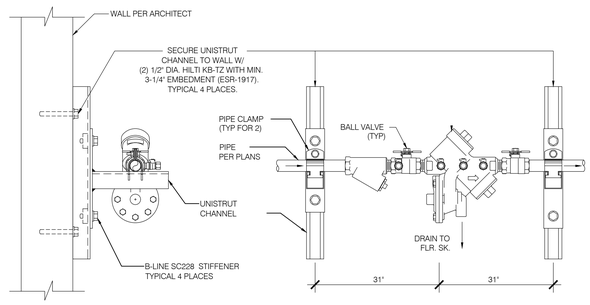


DETAIL NOTES:

1. REFER TO SPECIFICATION SECTION 220548 FOR ADDITIONAL INFORMATION.
2. GAS PIPES WITH DIAMETER GREATER THAN 1" REQUIRES SEISMIC BRACING, NOT EXEMPTED

3 TRANSVERSE SEISMIC BRACE TO STRUCTURE

NO SCALE



ELEVATION

DETAIL NOTES:

1. BFP-1 OPERATING WEIGHT 14 LBS
2. BFP-2 OPERATING WEIGHT 346 LBS

1 TYPICAL BACKFLOW PREVENTER DETAIL (BFP-1&BFP-2)

NO SCALE

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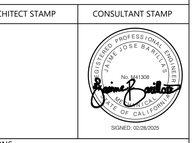

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SHEET TITLE

DETAILS

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

P-602

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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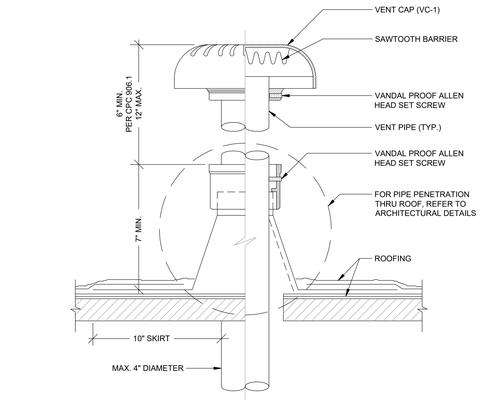
6 NOT USED
NO SCALE

5 NOT USED
NO SCALE

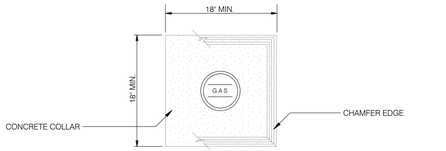


DETAIL NOTE:

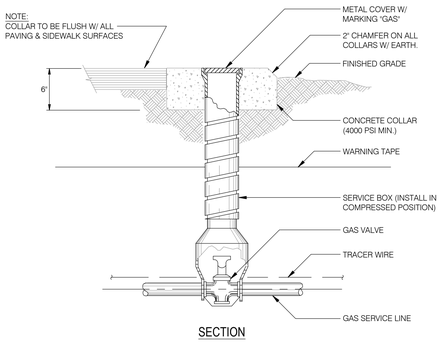
A. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOF CONSTRUCTION, PENETRATION AND FLASHING.

B. VENTS SHALL TERMINATE NOT LESS THAN 10 FT. AWAY FROM AC UNIT FRESH AIR INTAKES.

4 VENT THRU ROOF DETAIL (VTR)
NO SCALE

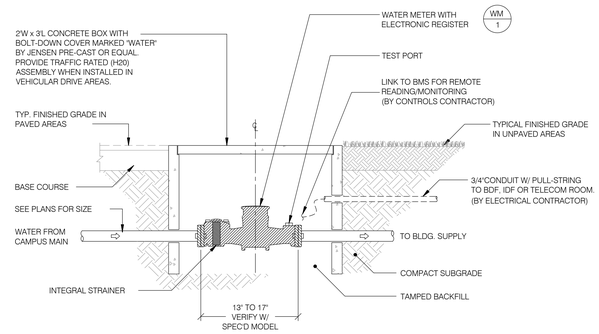


TOP VIEW



SECTION

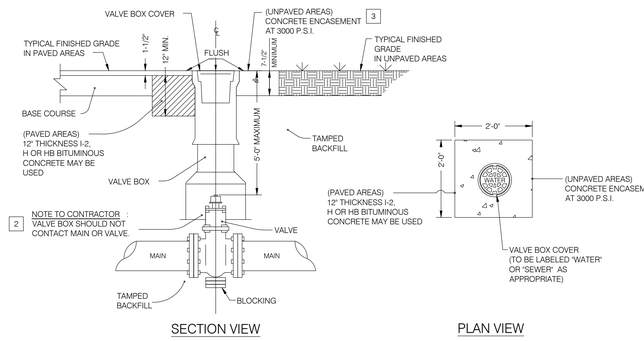
3 GAS VALVE BOX DETAIL
NO SCALE



DETAIL NOTES:

1. VERIFY COMMUNICATION PROTOCOL PRIOR TO ORDERING METER.
2. COORDINATE WITH CONTROLS CONTRACTOR FOR CONNECTION OF METER TO BMS FOR DATA TRANSFER. ALL WIRING TO BE INSTALLED BY CONTROLS CONTRACTOR.
3. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND CONDUIT ROUTING. ALL CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

2 WATER METER (WM-1)
NO SCALE



SECTION VIEW PLAN VIEW

DETAIL NOTES

1. ONLY MANUFACTURED VALVE BOX EXTENSIONS SHALL BE ALLOWED.
2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5' (ft.) FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
3. PRECAST CONCRETE ENCASEMENT IS ALLOWED OUTSIDE OF PAVED AREAS.

1 DOMESTIC WATER SERVICE SOV IN YARDBOX
NO SCALE

ISSUED: SEPTEMBER 9, 2025

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SHEET NO.

P-603

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	FEEDER CALLOUT
	EXISTING FEEDER CALLOUT
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLISHED LINEWORK
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT EXPOSED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
	CONDUIT EMERGENCY
W W	MULTI-CHANNEL RACEWAY
	CONDUIT TURNED UP
	CONDUIT CAPPED
A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
	3/4" CONDUIT, TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE - DIAGONAL DENOTES GROUND WIRE
G	GENERATOR
	SWITCH
	CIRCUIT BREAKER
	2-WAY SWITCH, TRANSFER SWITCH
	FUSE
	TRANSFORMER
	GROUND CONNECTION
M	MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER
M	METER
ECM	ELECTRONIC CIRCUIT MONITOR
	480V DRAWOUT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
	PANEL
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	COMBINATION STARTER/DISCONNECT SWITCH
M	SWITCH MOTOR RATED
	SPLICE
	TERMINATION
	EXISTING TERMINATION
52	MEDIUM VOLTAGE - AIR CIRCUIT BREAKER DRAWOUT BREAKER
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH
	MEDIUM VOLTAGE MODULAR SPLICE
	MEDIUM VOLTAGE EXISTING MODULAR SPLICE
X / y	2X4 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X4 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X / y	2X2 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X2 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X / y	LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X / y	LINEAR PENDANT LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X / y	TRACK LIGHTING - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X / y	UNDERCABINET / COVE FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X / y	LED STRIP LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.

SYMBOL	DESCRIPTION
X / y	DOWNLIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X / y	EMERGENCY DOWNLIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X / y	PENDANT LUMINAIRE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X / y	WALLWASH LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X / y	WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY WALL MOUNTED LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
	BOLLARD LUMINAIRE
	POST TOP LUMINAIRE
	POLE MOUNTED LUMINAIRE, SINGLE HEAD
	POLE MOUNTED LUMINAIRE, DOUBLE HEAD
	POLE MOUNTED LUMINAIRE, TRIPLE HEAD
	POLE MOUNTED LUMINAIRE, QUAD HEAD
	IN GRADE LUMINAIRE
	PATHWAY LUMINAIRE
	LANDSCAPE FIXTURE
	EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. SHADED SIDE DENOTES NUMBER OF FACES
J	JUNCTION BOX
PC	PHOTOCELL FOR EXTERIOR APPLICATIONS
DS	DAYLIGHT SENSOR - CEILING MOUNTED
R	RELAY
EM	EMERGENCY RELAY UL 924 COMPLIANT
M	MOTION SENSOR - CEILING MOUNTED
M	MOTION SENSOR - CORNER OR WALL MOUNTED
M	MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
MS	COMBINATION MOTION AND DAYLIGHT SENSOR
N	LIGHTING CONTROL NETWORK DEVICE
TM	DIGITAL TIMER SWITCH
MS	MOTION SENSOR SWITCH
LV	LOW VOLTAGE SWITCH
DM	DIMMER MASTER SWITCH
D	DIGITAL DIMMING SWITCH
TS	GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
T	THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
	MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
	MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
	MODULAR FURNITURE - POWER POLE FEED CONNECTION
	20A, 125V MODULAR FURNITURE RECEPTACLE (TO BE PROVIDED AS PART OF THE FURNITURE)
	20A, 125V MODULAR FURNITURE RECEPTACLE (HALF) CONTROLLED RECEPTACLE (TO BE PROVIDED AS PART OF THE FURNITURE)
	LIGHTING CONTROL PANEL - SURFACE MOUNTED
	PANELBOARD - RECESSED MOUNTED
	PANELBOARD - SURFACE MOUNTED
	DISTRIBUTION PANEL/ BOARD
	SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE.
3	SWITCH 3-WAY (48" AFF MAXIMUM)
T	TIMER SWITCH (48" AFF MAXIMUM)
ab	DUAL SWITCH (48" AFF MAXIMUM)
	PUSHBUTTON SWITCH
	RECESSED ON WALL — G=GFI, WP=WEATHERPROOF SURFACE — G=GFI, WP=WEATHERPROOF FLOOR OR CEILING — C=CEILING
	20A, 125V DUPLEX RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V QUAD RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V DUPLEX RECEPTACLE RECEPTACLE ON DEDICATED CIRCUIT
	20A, 125V CONTROLLED DUPLEX RECEPTACLE
	20A, 125V QUAD RECEPTACLE (HALF) CONTROLLED RECEPTACLE
	SPECIAL RECEPTACLE REFER TO DRAWINGS FOR NEMA CONFIGURATION
	JUNCTION BOX
	RECESSED POKE-THROUGH RECESSED POKE-THROUGH - POWER/TEL/DATA RECESSED FLOOR BOX - POWER/TEL/DATA
	20A, 125V DUPLEX RECEPTACLE FIRE RATED TYPE
	20A, 125V QUAD RECEPTACLE FIRE RATED TYPE
	DATA OUTLET, INSTALL A NEMA 5S BOX WITH VERTICAL ORIENTED SINGLE-GANG RING AND 1" EMT FROM EACH BOX. EACH OUTLET CONSISTS OF (3) CAT6A CABLES TERMINATED ON RJ-45 JACKS AT THE FACEPLATE AND RJ-45 PATCH PANEL IN THE DATA CABINET.

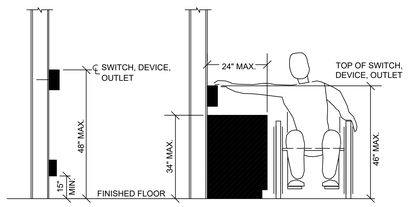
ABBREVIATIONS

ABBREVIATION	DESCRIPTION
1/C	SINGLE CONDUCTOR
&	AND
@	AT
A OR AMP	AMPERES
ABV	ABOVE
A.C.	ASPHALT CONCRETE
AF	AMPERE FUSE RATING
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT; ARCHITECTURAL
AS	AMPERE SWITCH RATING
ASCC	AVAILABLE SHORT CIRCUIT CURRENT
ATC	AIR TERMINAL CHAMBER
ATO	AUTOMATIC THROW-OVER (SWITCH)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BEL	BELOW
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
B.S.	BARE STRANDED
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CONSTANT CURRENT
CEC	CALIFORNIA ELECTRICAL CODE
CF	CUBIC FEET
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
C.O.	CONDUIT ONLY WITH PULL WIRE
COL	COLUMN
CP	COMMUNICATION PROCESSOR
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CSFD	COMBINATION SMOKE FIRE DAMPER
CT	CURRENT TRANSFORMER
CW	COLD WATER
CU	COPPER
DIAG	DIAGRAM
DIST.	DISTANCE
DL	DAMP LOCATION LISTING
DM	DIGITAL METER
DMM	DIGITAL METER MODULE
DP	DISTRIBUTION PANEL
DIST.	DISTANCE
DWG	DRAWING
DWP	DEPARTMENT OF WATER & POWER
EA	EACH
ECM	ELECTRONIC CIRCUIT MONITOR
ELEC.	ELECTRICAL
EM	EMERGENCY
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
ER	EXISTING TO BE REMOVED
ERR	EXISTING TO BE RELOCATED AND - RECONNECTED
EXIST/(E)	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FFE	FINISHED FLOOR ELEVATION
FIN.	FINISH
FIP.	FIELD INTERFACE PANEL
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FT	FEET
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OBTIC
FTG	FOOTING
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GG	GREEN GROUND
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HTR	HEATER
HZ	HERTZ
ICON	INTEGRATED COMMUNICATIONS OPTICAL - NETWORK
IE	INVERT ELEVATION
IED	INTELLIGENT ELECTRONIC DEVICES
IMC	INTERMEDIATE METAL CONDUIT
ISC	SHORT CIRCUIT CURRENT
INCAND	INCANDESCENT
J, JB, J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES

ABBREVIATION	DESCRIPTION
KW	KILOWATT
LF	LINEAR FEET
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LGST	LARGEST
LIS	LOAD INTERRUPTER SWITCH
LOC.	LOCATION
LOTO	LOCK-OUT & TAG-OUT
LSI	LONG TERM, SHORT TERM, INSTANTANEOUS
LSIG	LONG TERM, SHORT TERM, INSTANTANEOUS GROUNDING
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MAX	MAXIMUM
MCA	MAXIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFGR, MFR	MANUFACTURER
MH	MANHOLE
MI.	MECHANICAL INTERLOCK
MRCT	MULTI-RATIO CURRENT TRANSFORMER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTTB	MAIN TELEPHONE TERMINAL BOARD
MV	MEDIUM VOLTAGE
N	NORTH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT- 24HRS ON
NO.	NUMBER
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRICAL
OFC	OIL FUSED CUTOUT
OH	OVERHEAD
OL	OIL LEVER SWITCH
P	POLE
PAC	PROGRAMMABLE AUTOMATION CONTROLLER
PB	PULL BOX
PC	PHOTOCELL
PCB	POLYCHLORINATED BIPHENYL
PDS	PRESSURE DIFFERENTIAL SWITCH
PF	POWER FACTOR
PH OR Ø	PHASE
PILC	PAPER INSULATED, LEAD COVER
PIV	POST INDICATING VALVE
PL	PLATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
POC	POINT OF CONNECTION
PREF.	PREFERRED
PRI.	PRIMARY
PVC	POLY-VINYL CHLORIDE
PWR	POWER
REC/RECEPT	RECEPTACLE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METAL CONDUIT
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RM	ROOM
RTAC	REAL TIME AUTOMATION CONTROLLER
SCCR	SHORT CIRCUIT CURRENT RATING
SCE	SOUTHERN CALIFORNIA EDISON
SF	SQUARE FEET
SHT	SHEET
SIG.	SIGNAL
SP	SPARE
SPECS	SPECIFICATIONS
ST	STREET
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SWST	SWITCHING STATION
TB	TERMINAL BLOCK
TEL./TELE	TELEPHONE
TMH	TELEPHONE MANHOLE
T.O.D.	TOP OF DUCTBANK
T.O.M.	TOP OF MANHOLE
TPS	TWISTED SHIELDED PAIR
TRANSF.XFMR	TRANSFORMER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
VB	VIBRATION SWITCH
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
W/O	WITHOUT
WCR	WITHSTAND CLOSE-ON RATING
WP	WEATHERPROOF
Z	IMPEDANCE

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

MOUNT HEIGHT OVER OBSTRUCTION



GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL AND STATE. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.

3. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.

4. MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:

   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.1.18 THROUGH 1617A.1.26 ASCE 7-16 CHAPTERS 13, 26, AND 30:

   A. ALL PERMANENT EQUIPMENT AND COMPONENTS.

   B. 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.

   C. 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:

   A. 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.

   B. 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 THE 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.

5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

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

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

   MP☐ MD☐ PP☐ E☒ - OPTION 1: PROJECT-SPECIFIC DESIGN.
   MP☐ MD☐ PP☐ E☐ - OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.
   MP☐ MD☐ PP☐ E☐ - OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

SHEET INDEX

SHEET	DESCRIPTION
E-001	GENERAL NOTES, LEGEND AND SHEET INDEX
ED-101	SITE DEMO PLAN
E-101	SITE PLAN
E-201	POOL EQUIPMENT BUILDING FLOOR PLAN - POWER
E-202	POOL EQUIPMENT BUILDING RCP PLAN - LIGHTING
E-202-P	POOL EQUIPMENT BUILDING PHOTOMETRICS PLAN
E-203	POOL EQUIPMENT BUILDING FLOOR PLAN - AUXILIARY
E-501	SINGLE LINE DIAGRAM
E-601	DETAILS
E-602	DETAILS
E-701	TITLE 24 - INDOOR LIGHTING
E-702	TITLE 24 - OUTDOOR LIGHTING

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196

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ARCHITECT STAMP

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER WEST MEVORAH — No. E-23024 — STATE OF CALIFORNIA
SIGNED: 09/30/2024

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
GENERAL NOTES, LEGEND AND SHEET INDEX

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.
E-001
DATE: MARCH 7, 2025

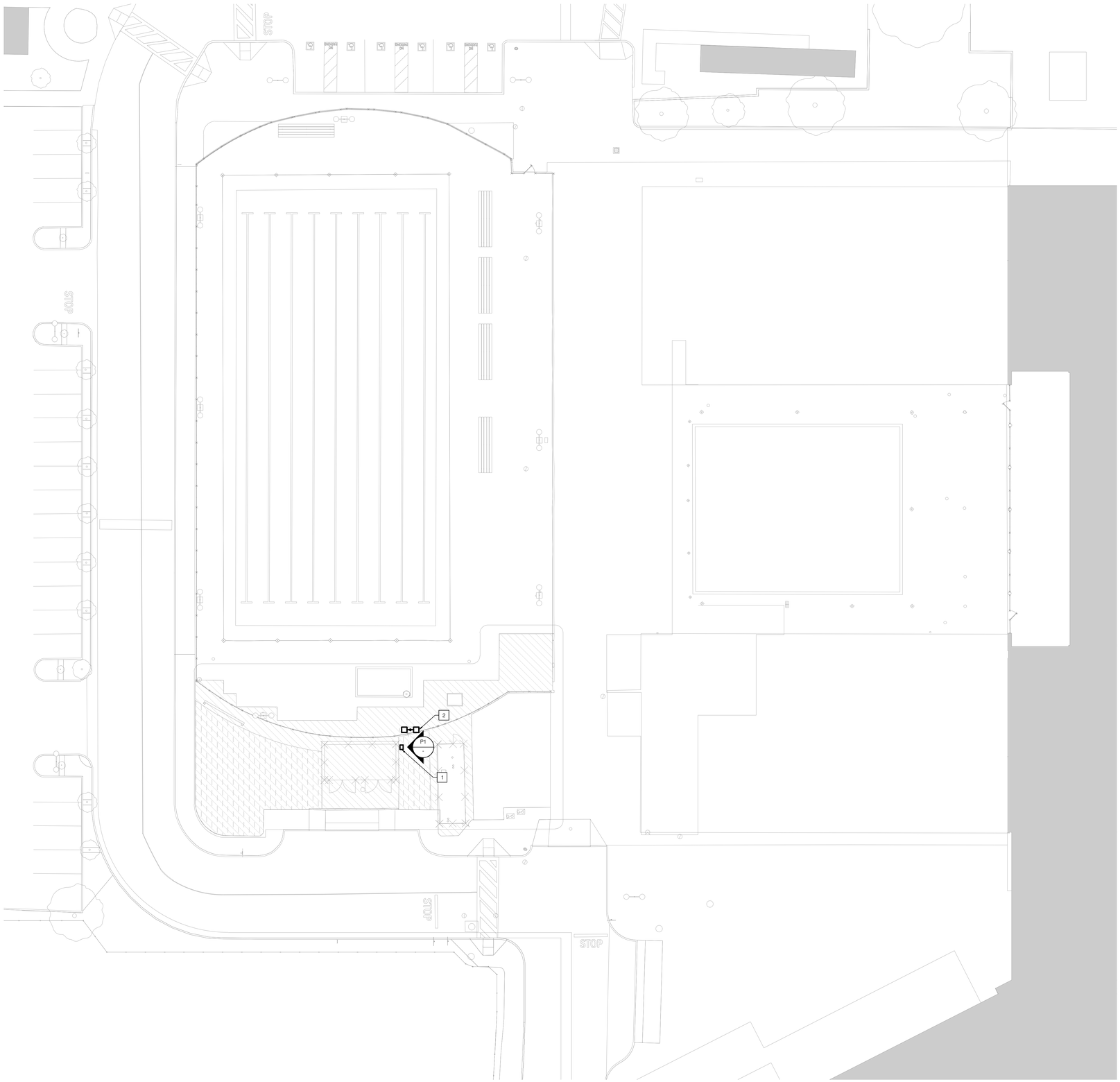
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 5/23/2024 2:31:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

NOTES

1. DISCONNECT AND REMOVE PANELBOARD ALONG WITH ALL ASSOCIATED ACCESSORIES AS SHOWN.
2. DISCONNECT AND REMOVE EXISTING POLE LIGHT FIXTURE ALONG WITH POLE AND BASE. PROTECT FIXTURE AND POLE FOR REINSTALLATION IN NEW LOCATION. REFER TO RENOVATION SITE PLAN FOR NEW LOCATION OF POLE LIGHT.



P1 (E) PANEL 'CS'
NO SCALE

SCALE: 1/16" = 1'-0"
0 16

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

SITE DEMO PLAN

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

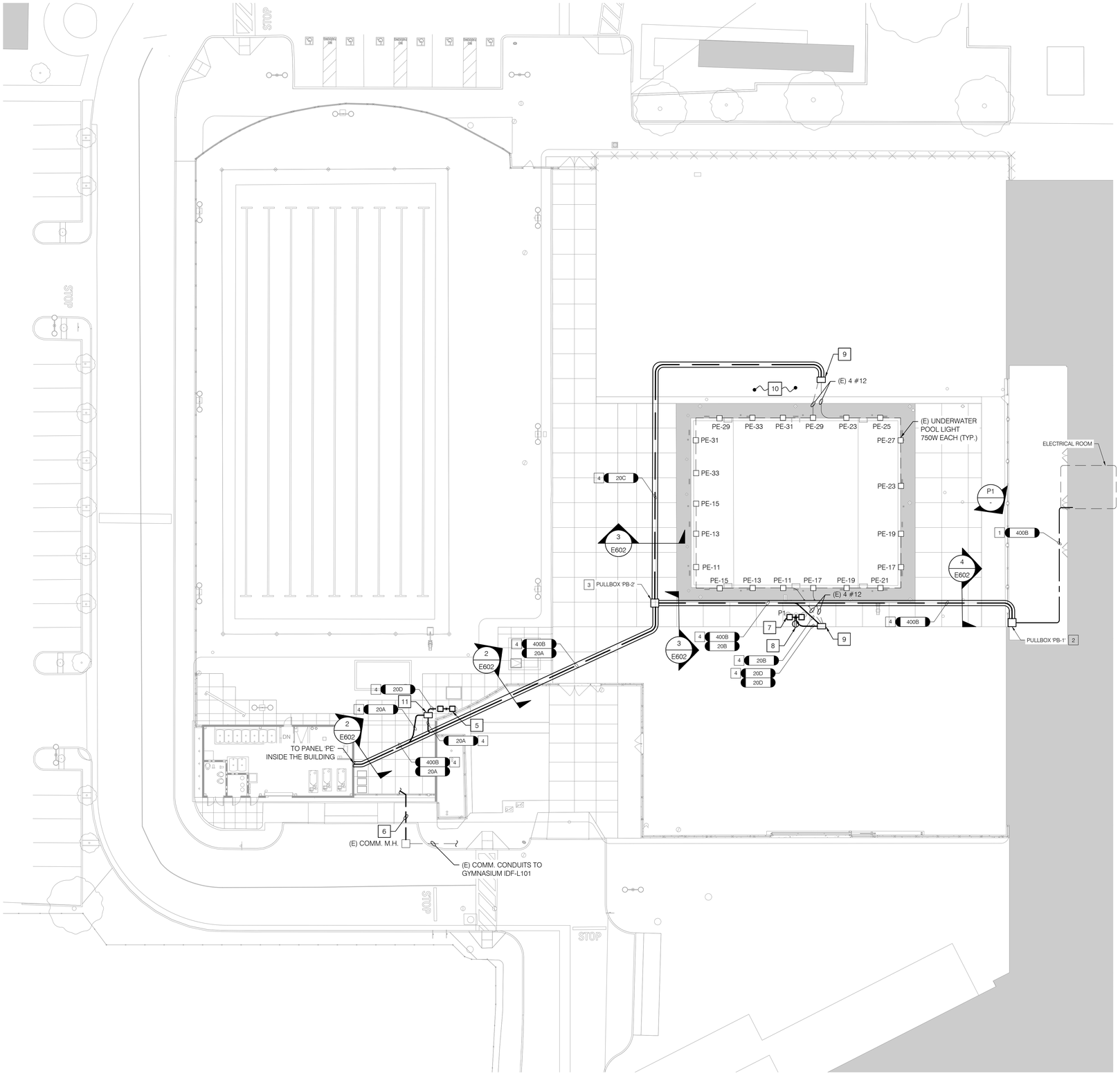
ED-101

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 5/23/2024 2:31:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

CIVIL ENGINEER
BLAIR, CHURCH & FLYNN
451 Clovis Avenue
Clovis, CA 93612
TEL (559) 326-1400

STRUCTURAL ENGINEER
JOHN A. MARTIN & ASSOCIATES, INC.
950 South Grand Ave. 4th Floor
Los Angeles, CA 90015
TEL (213) 483-6490

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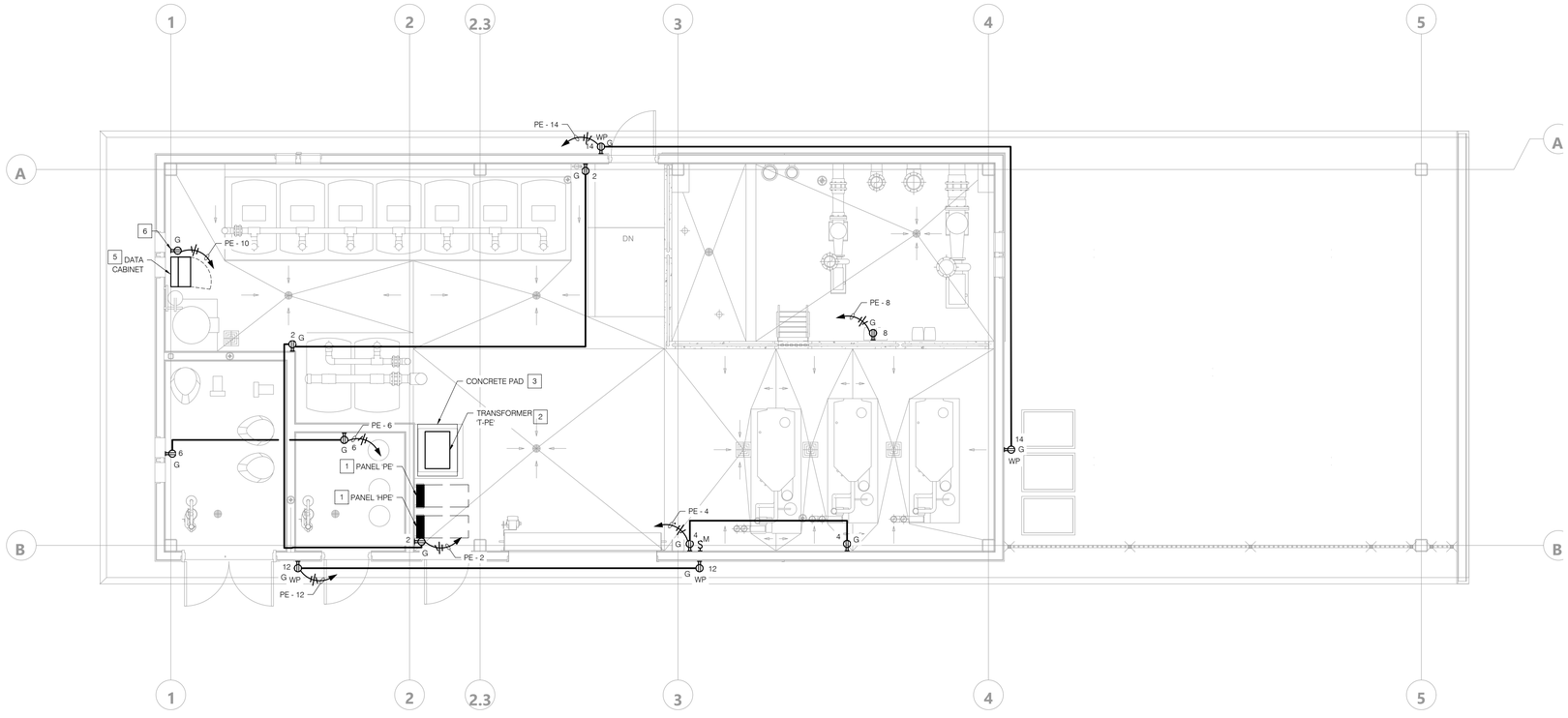
AQUATICS ENGINEER
COUNSILMAN-HUNSAKER
12851 Manchester Road, Suite 120
St. Louis, MO 63131
TEL (314) 894-1245

REGISTERED PROFESSIONAL ENGINEER
STEPHEN MICHAEL MEYER
No. E24721
ELECTRICAL
STATE OF CALIFORNIA
SIGNED: 09/30/2024

ISSUED: SEPTEMBER 9, 2025

MARCH 7, 2025



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REGISTERED PROFESSIONAL ENGINEER
STEVEN MEVORACH
ELECTRICAL
STATE OF CALIFORNIA
No. 15470
Mevorach
SIGNED: 09/30/2024

ISSUED: SEPTEMBER 9, 2025

MARCH 7, 2025

LIGHTING CONTROLS

DEVICE	ROOM NO	ROOM NAME	SWITCH ID	OCC SENSOR	PHOTOCELL	DAYLIGHTING ZONE	SWITCHING TYPE	PANEL	CIRCUIT	NOTES
nPP16-D-EFP	101	POOL EQUIPMENT ROOM	p1	CEILING O.S.	N/A	N/A	DIMMING	PE	3	-
nPP16-D-EFP	103	PH BUFFER ROOM	b1	WALL O.S.	N/A	N/A	ON/OFF	PE	3	-
nPP16-D-EFP	102	SANITIZER ROOM	s1	WALL O.S.	N/A	N/A	ON/OFF	PE	3	-
nPP16-D-EFP	N/A	EXTERIOR WALLS	e1	N/A	N/A	N/A	ON/OFF	PE	7	-
nPP16-D-EFP	101	EXTERIOR CANOPY	e2	N/A	YES	N/A	ON/OFF	PE	9	-

LIGHT FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION	MANUFACTURER & MODEL	TOTAL V-A	LAMP TYPE	LUMENS	COLOR TEMP	CRI	VOLTAGE	MTG	NOTES
L1	SUSPENDED STRIP LIGHT	METALUX #4APVTLD-SL3C3-AYC-CHAIN/SET-U	32	LED	4452	3500K	82	120	P	3
L1E	SUSPENDED STRIP LIGHT WITH BATTERY PACK	METALUX #4APVTLD-SL3C3-EL10W-AYC-CHAIN/SET-U	32	LED	4452	3500K	82	120	P	3
L2	SURFACED STRIP LIGHT	METALUX #4APVTLD-SL3C3	32	LED	4452	3500K	82	120	S	
P1	POLE LIGHT	LITHONIA LIGHTING #DSX1 LED-P5-40K-80CRI-T4M-MVOLT-RPA-NLTAIR2 -PIRHN-DWHXD	276	LED	35786	4000K	80	120	PO	1, 2
W1	WALL MOUNTED LIGHT	LITHONIA LIGHTING #WDGE1LED-P2-CCT-80CRI-VF-MVOLT-SRM-FINISH	15	LED	1806	3000K	80	120	W	

NOTES:

1. PROVIDE LITHONIA LIGHTING, #RSS 24 4-5B DWHXD STEEL 24' ROUND POLE.
2. REFER TO DETAIL 4/E-601 FOR LIGHT POLE FOOTING DETAIL.
3. MOUNT LIGHTS AT 11'-6" A.F.F.

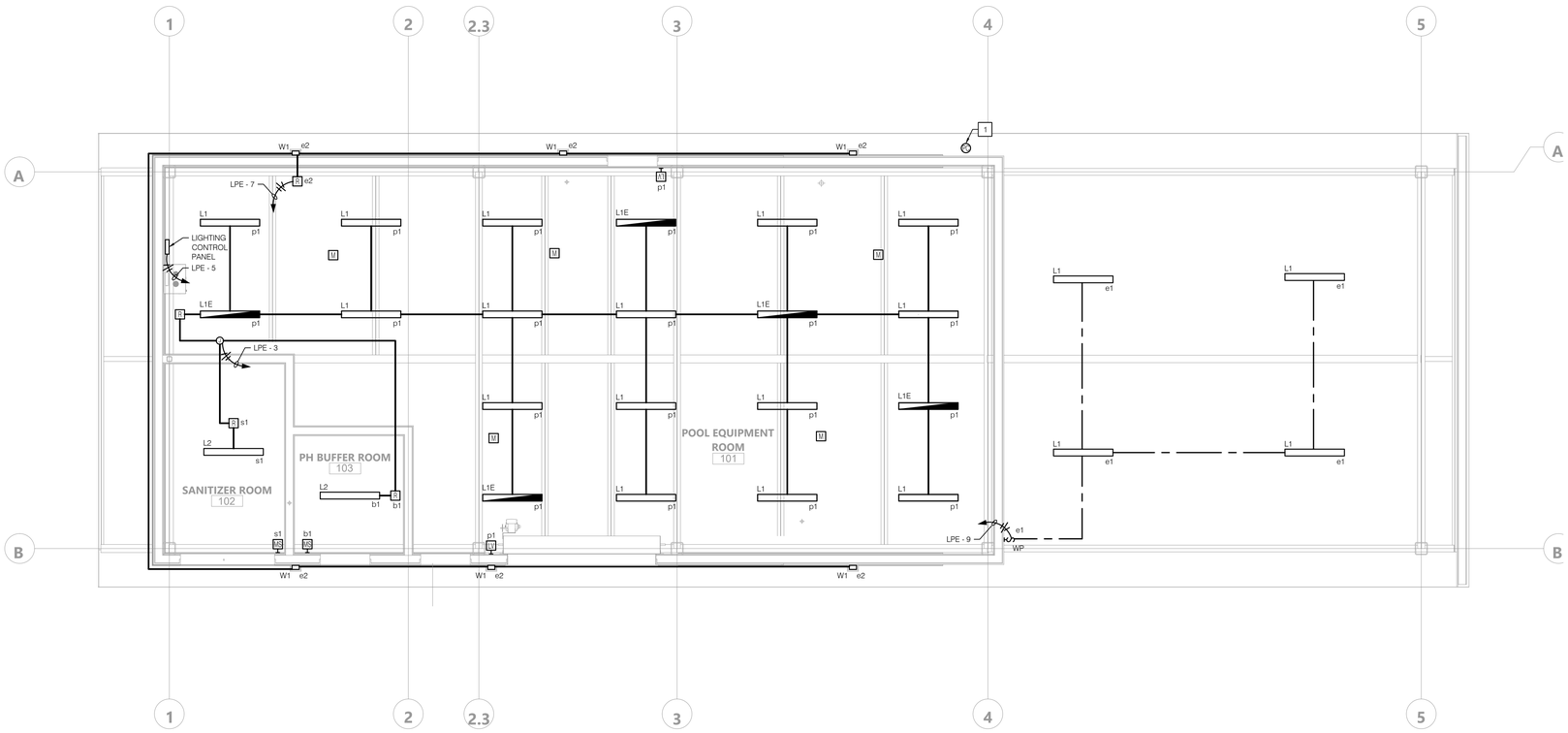
MOUNTING ABBREVIATIONS:
B = BOLLARD
P = PENDANT
PO = POLE
R = RECESSED
S = SURFACE
T = TAPE LIGHT
W = WALL

NOTES

1 PROVIDE DIGITAL OUTDOOR PHOTOSENSOR AS SHOWN(CAT: LSA-APS-OL) MOUNTED IN JUNCTION BOX MINIMUM 6' HIGH ABOVE THE BUILDING HEIGHT. PHOTOSENSOR SHALL BE INSTALLED FACING NORTH. PHOTOSENSOR SHALL CONTROL ALL OUTDOOR LIGHT FIXTURES.

GENERAL NOTES

A. REFER TO LIGHTING FIXTURE SCHEDULE ON THIS SHEET FOR LIGHT FIXTURE AND LAMP DETAILS.



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AGENCY APPROVAL DSA# 03-124689

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APP: 03-124689 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

ARCHITECT STAMP | CONSULTANT STAMP

SIGNED: 06/30/2024

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
POOL EQUIPMENT BUILDING RCP PLAN - LIGHTING

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.
E-202

DATE: MARCH 7, 2025

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

CONSTRUCTION DOCUMENTS

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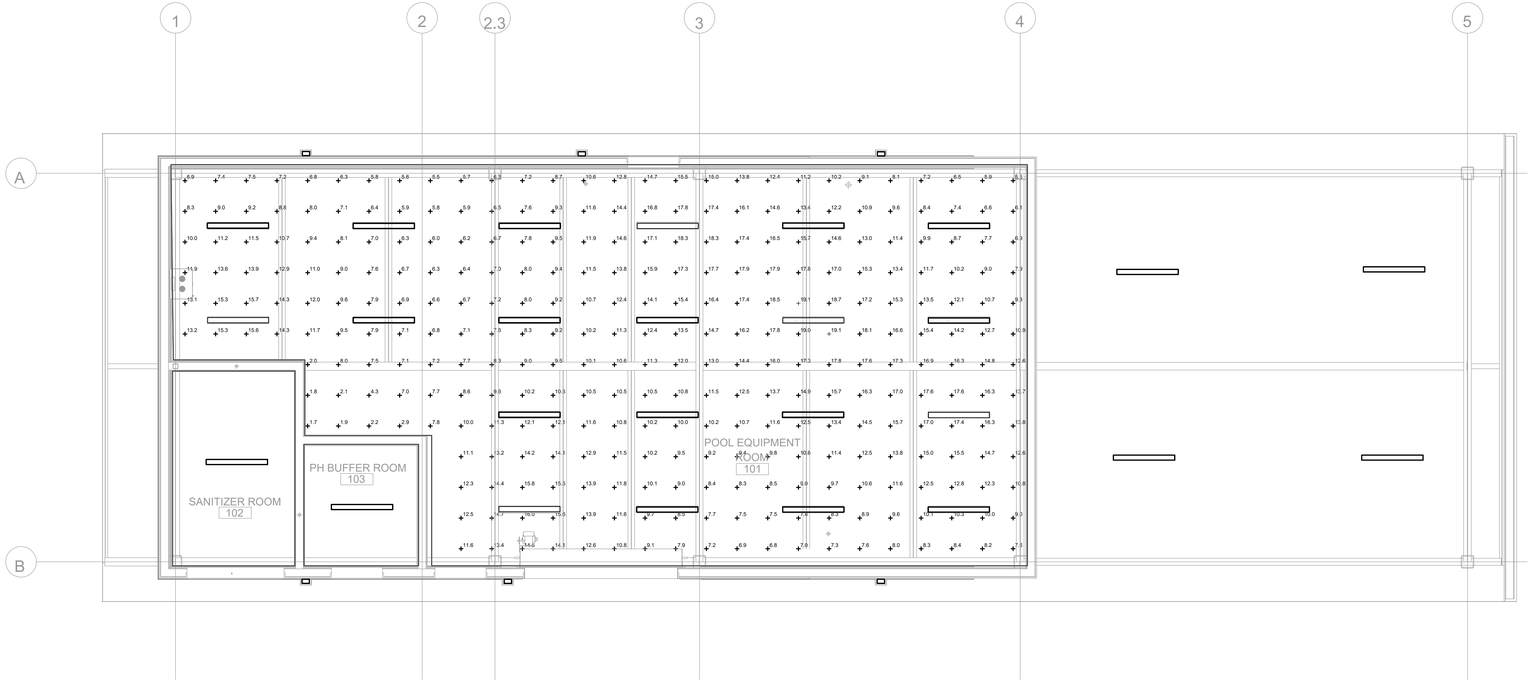

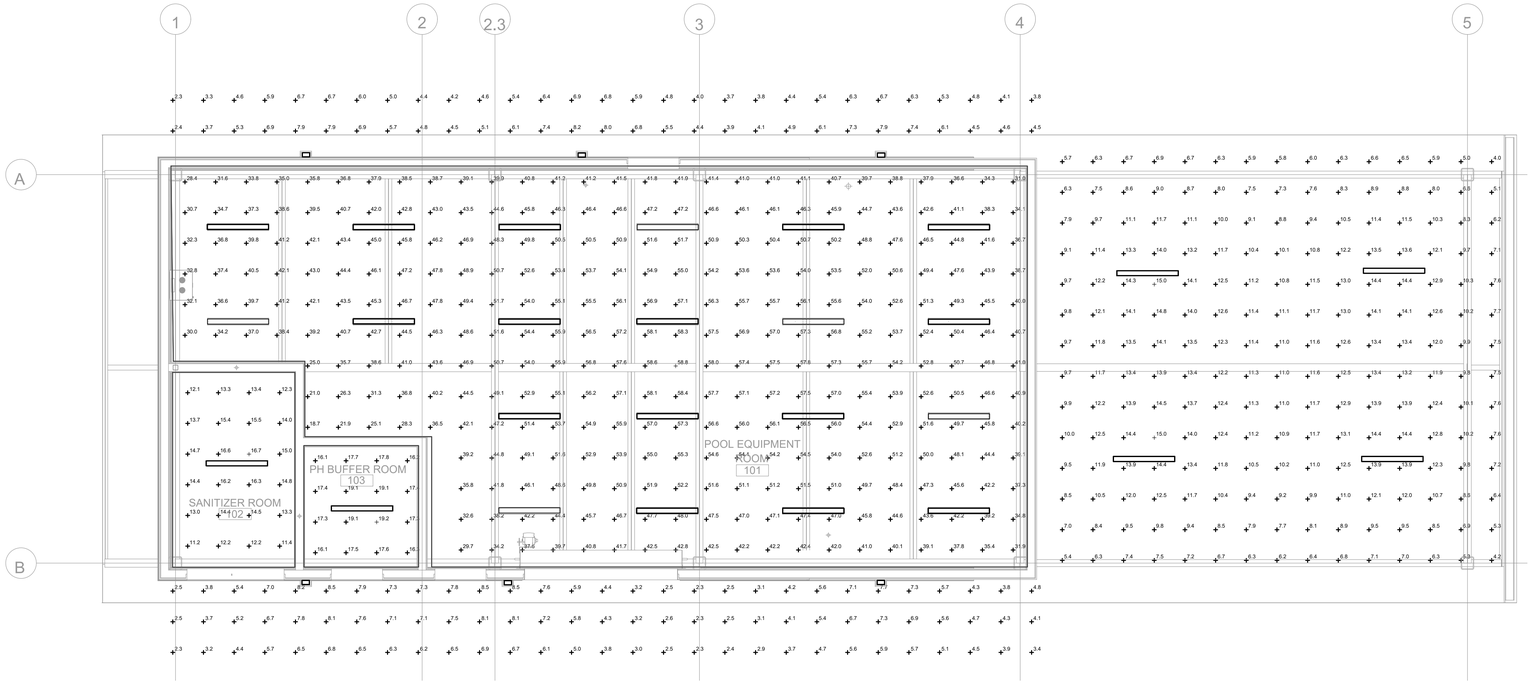

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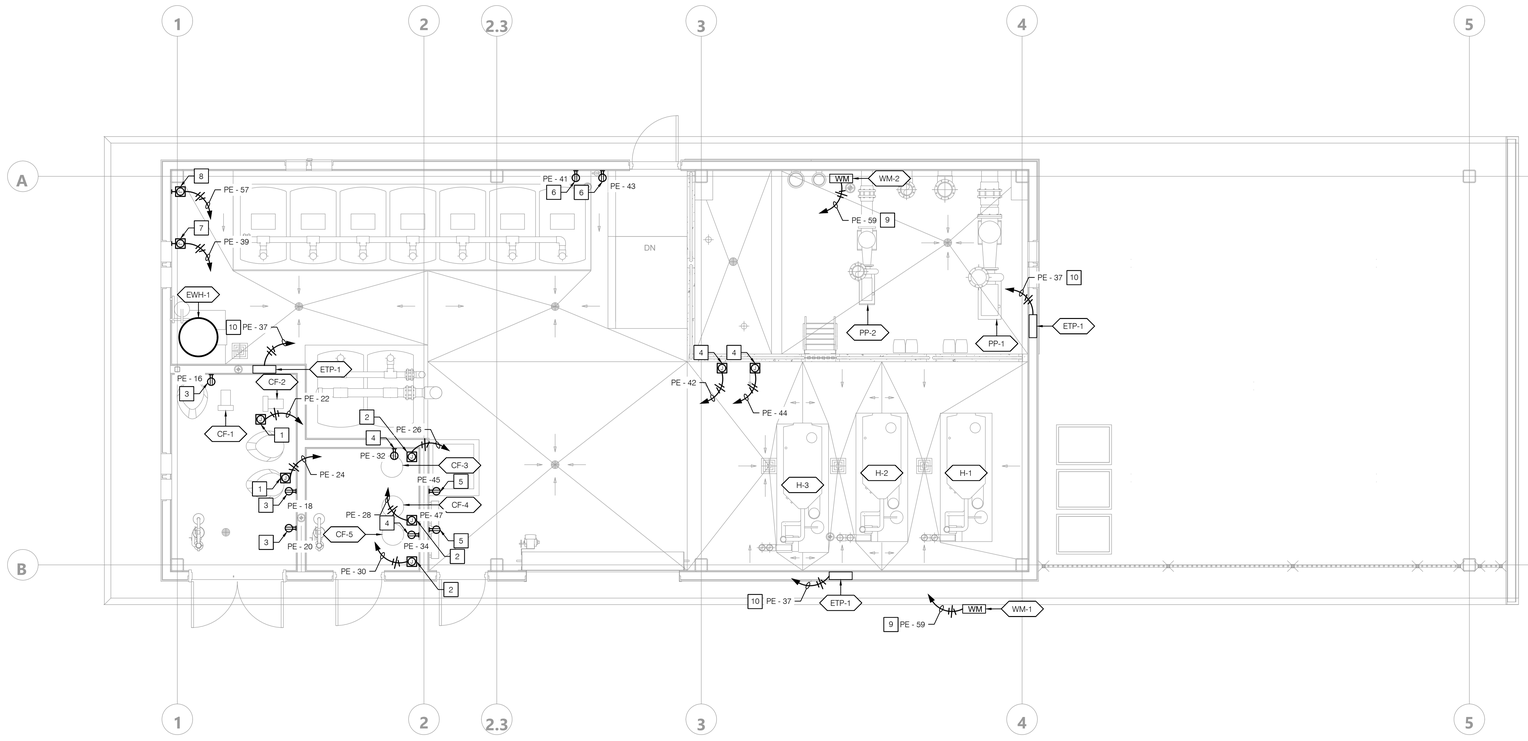

196

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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER M. MEIER
No. E24721
ELECTRICAL
STATE OF CALIFORNIA

SIGNED: 09/30/2024

ISSUED: SEPTEMBER 9, 2025

MARCH 7, 2025

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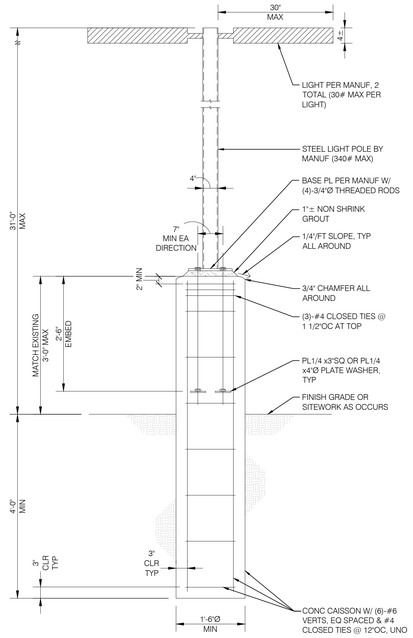


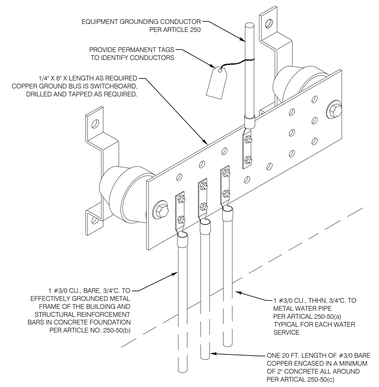
TYPE A

GENERAL NOTES

A. NOT PART OF DSA SS REVIEW AND APPROVAL PER DSA IR A-22, APPENDIX ITEM #1"

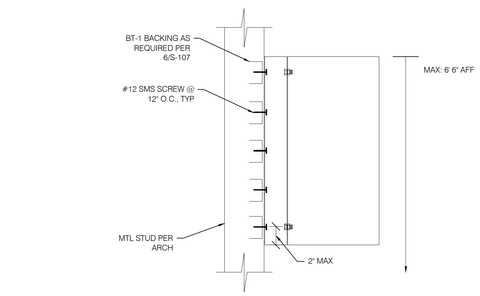
4 FOOTING DETAIL

NO SCALE



2 GROUNDING BUS BAR

NO SCALE



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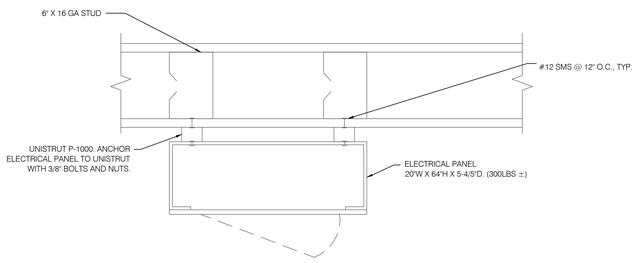
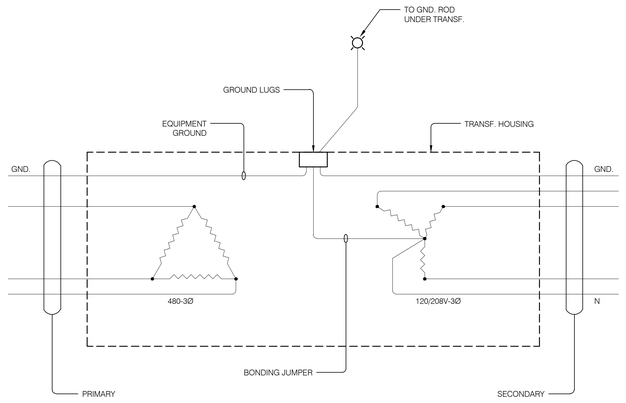


PLAN

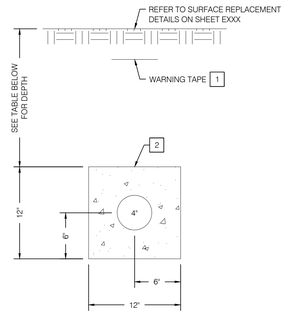
5 SURFACE MOUNTED PANELBOARD

NO SCALE



3 TRANSFORMER GROUNDING

NO SCALE



VOLTAGE	DUCTBANK DEPTH
ABOVE 600V	36" MINIMUM
BELOW 600V	24" MINIMUM

NOTES

1. WARNING TAPE FOR MEDIUM VOLTAGE DUCTBANKS ONLY.
2. RED CONCRETE ENCASEMENT CONSISTING OF 3 SACK OF CEMENT AND 10 LBS OF RED OXIDE (OR 1 GALLON OF RED COLOR) PER CUBIC YARD OF SAND FOR MEDIUM VOLTAGE DUCTBANKS ONLY.

1 DUCTBANKS - 4" CONDUIT

NO SCALE

AGENCY APPROVAL DSA# 03-124689

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

DETAILS

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

E-601

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 5/23/2024 2:31:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

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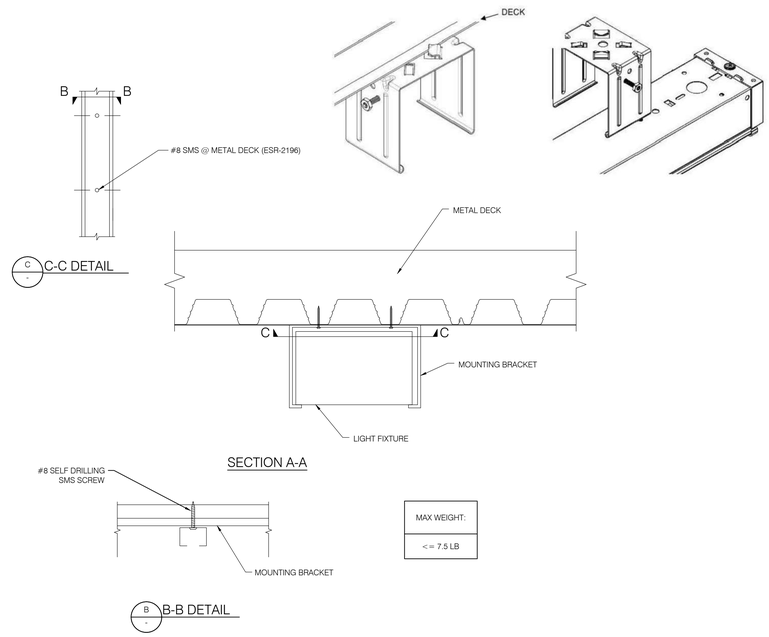
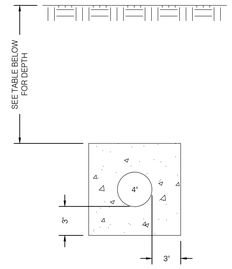


6 SURFACE MOUNTED LIGHT FIXTURE - METAL CEILING

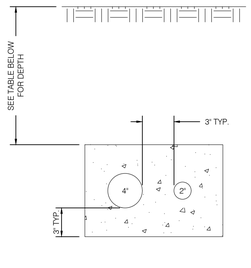
NO SCALE



VOLTAGE	DUCTBANK DEPTH
ABOVE 600V	36" MINIMUM
BELOW 600V	24" MINIMUM

4 DUCTBANK - 1 CONDUIT

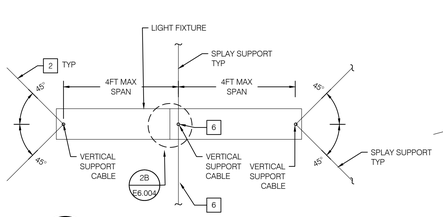
NO SCALE



VOLTAGE	DUCTBANK DEPTH
ABOVE 600V	36" MINIMUM
BELOW 600V	24" MINIMUM

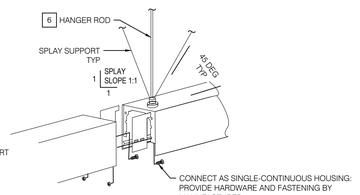
2 DUCTBANK - 2 CONDUITS

NO SCALE



2A SPLAY BRACING

NO SCALE



2B INTERCONNECTION

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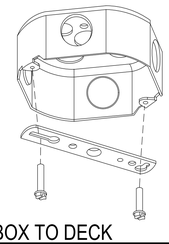
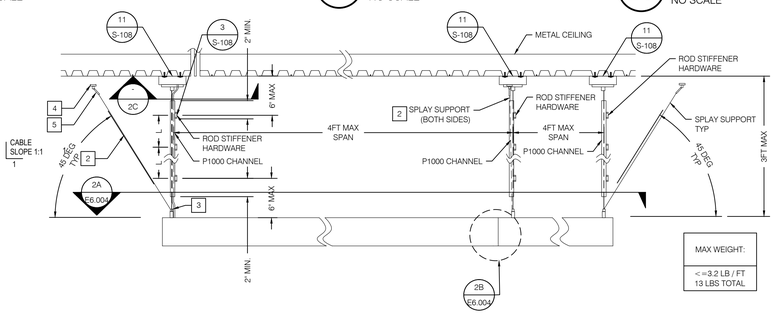


2C JBOX TO DECK

NO SCALE



NOTES

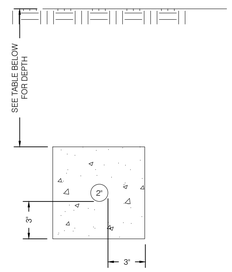
1. LINEAR LIGHT FIXTURE.
2. DIAGONAL #12 GA SPLAY WIRE. AS-REQUIRED
3. V-HOOK SYSTEM TO LOCK CABLE, CORD AND SEISMIC SWAY CABLE.
4. REFER TO SHEET 6 & 9/S-108 FOR CABLE ATTACHMENT TO STRUCTURE.
5. CABLE CLAMP
6. VERTICAL 3/8"Ø HANGER ROD. CONNECTION TO STRUCTURE PER 11/S-108.

GENERAL NOTES

1. PROVIDE ALL CODE-COMPLIANT SEISMIC BRACING SYSTEM COMPONENT WHERE MOVEMENT OF PENDANT FIXTURE CANNOT SWING FREE A MINIMUM OF 45 DEGREE IN ALL DIRECTION.
2. REFER TO STRUCTURAL SHEET S-108 FOR ATTACHMENTS TO STRUCTURE.

5 PENDANT LIGHT FIXTURE MOUNTING - METAL CEILING

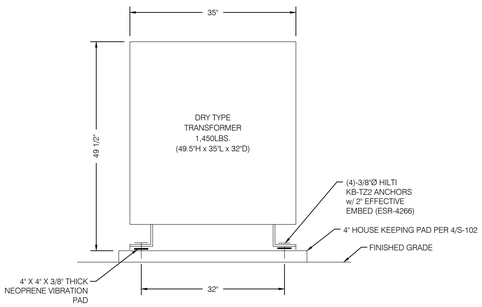
NO SCALE



VOLTAGE	DUCTBANK DEPTH
ABOVE 600V	36" MINIMUM
BELOW 600V	24" MINIMUM

3 DUCTBANK - 1 CONDUIT

NO SCALE



NOTES

1. SPECIAL INSPECTION OF EXPANSION ANCHOR INSTALLATION IS REQUIRED.
2. EXPANSION ANCHORS SHALL BE HILTI KB-TZ2 (ICC ESR 4266).
3. MINIMUM 12 BOLT DIAMETERS SHALL BE MAINTAINED FROM BOLT TO EDGE OF HOUSE KEEPING PAD.

1 DRY TYPE TRANSFORMER (75KVA TO 300KVA)

NO SCALE

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
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St. Louis, MO 63131
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ARCHITECT STAMP

CONSULTANT STAMP

SIGNED: 09/30/2024

REVISIONS
#

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

DETAILS

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.

E-602

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 5/23/2024 2:31:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTI-01-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies in low-rise multifamily mixed-use buildings. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Bakersfield College Swimming Pool Equipment Building	**Report Page:** (Page 1 of 7)
Project Address: 1801 Panorama Dr., Bakersfield, CA 93305	**Date Prepared:** 02/27/2025

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	2,422.5
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	N/A	0	Area Category Method	2422.5
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)			2422.5	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTI-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building	**Report Page:** (Page 2 of 7)
	Date Prepared: 02/27/2025

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07 Adjustments		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)		**Total Allowed** (Watts)	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned					=				=		
Unconditioned		969			=	969	832		=	832	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTI-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building	**Report Page:** (Page 3 of 7)
	Date Prepared: 02/27/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
L1	Suspended Strip Light	No	NA	32	Mfr. Spec	21	No	672	☐	☐
L1E	Suspended Strip Light	No	NA	32	Mfr. Spec	5	No	160	☐	☐
							Total Designed Watts: UNCONDITIONED SPACES	832		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTI-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building	**Report Page:** (Page 4 of 7)
	Date Prepared: 02/27/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Pool Equipment Building	All Other Space Types	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Pool Equipment Building	All Other Space Types	0.4	2,422.5	969	No	No
	TOTALS:		2,422.5	969	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTI-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building	**Report Page:** (Page 5 of 7)
	Date Prepared: 02/27/2025

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTI-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building	**Report Page:** (Page 6 of 7)
	Date Prepared: 02/27/2025

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
LMCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pool Equipment Building

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTI-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building	**Report Page:** (Page 7 of 7)
Project Address: 1801 Panorama Dr., Bakersfield, CA 93305	**Date Prepared:** 02/27/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Christian Canedo	Christian Canedo
Company: P2S LP	Signature Date: 03/05/2025
Address: 5000 E Spring St 8th Floor	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Long Beach/CA/90815	Phone: (562) 497-2999

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature: Mevan Fernando
Company: P2S LP	Date Signed: 03/05/2025
Address: 5000 E Spring St 8th Floor	License: E24721
City/State/Zip: Long Beach/CA/90815	Phone: (562) 497-2999

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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ARCHITECT STAMP

CONSULTANT STAMP
STATE OF CALIFORNIA — MEVAN FERNANDO — No. E-24721 — PROFESSIONAL ENGINEER
SIGNED: 06/30/2024

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
TITLE 24 - INDOOR LIGHTING

DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.
E-701

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 5/23/2024 2:31:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTO-01-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies in low-rise multifamily mixed-use buildings. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for low-rise multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Bakersfield College Swimming Pool Equipment Building Outdoor	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:**

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Illuminated Hardscape Area (ft²)	20947.04
02	Climate Zone	13			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
•	All Other Occupancies				

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ◯ Yes ◯ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Low-rise Multifamily Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 229186-0924-0002 Report Generated: 2024-09-26 17:09:48

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTO-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building Outdoor	**Report Page:** (Page 2 of 7)
	Date Prepared:

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv											Compliance Results	
01		02		03		04		05		06	07	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	= **Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,048.55	+	---	+	---	+	---	+	---	OR	---	= 1,048.55	≥	978	COMPLIES
Shielding Compliance (See Table G for Details)														N/A
Controls Compliance (See Table H for Details)														COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Low-rise Multifamily Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 229186-0924-0002 Report Generated: 2024-09-26 17:09:48

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTO-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building Outdoor	**Report Page:** (Page 3 of 7)
	Date Prepared:

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
P1	Pole Light	☐ Linear	276	Mfr. Spec	3	New	☐	828	NA: < 6200 lumens	☐	☐
W1	Wall Mounted Light	☐ Linear	15	Mfr. Spec	6	New	☐	90	NA: < 6200 lumens	☐	☐
G1	Canopy Downlight	☐ Linear	12	Mfr. Spec	5	New	☐	60	NA: < 6200 lumens	☐	☐
							Total Design Watts:	978			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Low-rise Multifamily Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 229186-0924-0002 Report Generated: 2024-09-26 17:09:48

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTO-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building Outdoor	**Report Page:** (Page 4 of 7)
	Date Prepared:

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
College Sports Pool Area: "P1"	Astronomical Timer	Provided	NA: >=24 ft	☐	☐
College Sports Pool Area: "W1"	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
College Sports Pool Area: "G1"	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Low-rise Multifamily Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 229186-0924-0002 Report Generated: 2024-09-26 17:09:48

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTO-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building Outdoor	**Report Page:** (Page 5 of 7)
	Date Prepared:

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
		"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
College Sports Pool Area	33450	0.019	635.55	1420	0.15	213	848.55
Initial Wattage Allowance for Entire Site (Watts):							200
Instances of Initial Wattage Allowance (LZ 0 only)[1]							
Total General Hardscape Allowance (Watts):							1048.55

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Low-rise Multifamily Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 229186-0924-0002 Report Generated: 2024-09-26 17:09:48

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTO-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building Outdoor	**Report Page:** (Page 6 of 7)
	Date Prepared:

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
LMCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	College Sports Pool Area: "P1"; College Sports Pool Area: "W1"; College Sports Pool Area: "G1"

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Low-rise Multifamily Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 229186-0924-0002 Report Generated: 2024-09-26 17:09:48

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-LTO-01-E
Project Name: Bakersfield College Swimming Pool Equipment Building Outdoor	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:**

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Jose Toledo	Jose Toledo
Company: P2S Inc	Signature Date: 09.30.24
Address: 5000 E Spring St 8th floor	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Long Beach/CA/ 90815	Phone: 562.497.2999

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mevan Fernando	Responsible Designer Signature: Mevan Fernando
Company: P2S Inc	Date Signed: 09.30.24
Address: 5000 E Spring St 8th floor	License: E24721
City/State/Zip: Long Beach/CA/ 90815	Phone: 562.497.2999

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Low-rise Multifamily Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 229186-0924-0002 Report Generated: 2024-09-26 17:09:48

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

196
802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
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St. Louis, MO 63131
TEL (314) 894-1245

ARCHITECT STAMP | CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
Mevan Fernando
No. E24721
ELECTRICAL
STATE OF CALIFORNIA
SIGNED: 09/30/2024

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
TITLE 24 - OUTDOOR LIGHTING

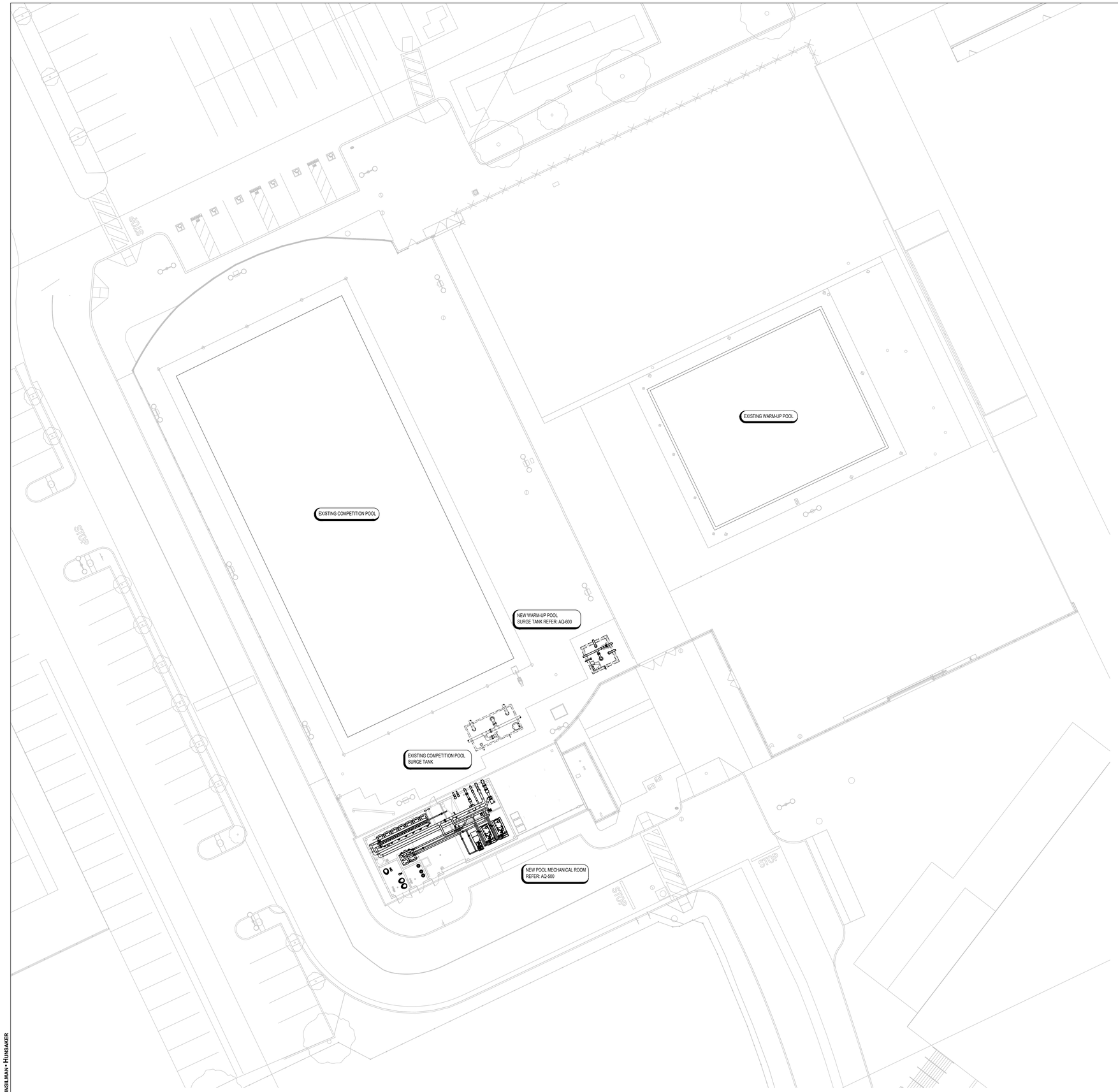
DRAWN BY: XX JOB NUMBER: 23024.02

SHEET NO.
E-702
DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 5/23/2024 2:31:27 PM FILE LOCATION: Autodesk Docs://23024.02_KCCD - Bakersfield College/23024.02_KCCD_BC POOL BUILDING PH1_A24_CD.rvt

ISSUED: SEPTEMBER 9, 2025



1 AQ-000 POOL REFERENCE PLAN
1/16" = 1'-0"

N

EXISTING POOLS DESIGN DATA

	UNITS	COMPETITION POOL [50M]	WARM-UP POOL [25YD]
LENGTH	FT.	164'-1 1/2"	75'-1"
WIDTH	FT.	75'-1"	60'-0"
WATER SURFACE AREA	SQ. FT.	12,309	4,505
PERIMETER	FT.	478	270
VOLUME	GALLONS	643,900	152,091
RECIRCULATION SYSTEM			
POOL TURNOVER RATE	HOURS	6.00	4.86
RECIRCULATION RATE	GPM	1,788	522
SURGE CAPACITY	GALLONS	14,457	5,236
SEWER CAPACITY	GPM	REFER TO PLUMBING	REFER TO PLUMBING
BATHER LOAD	PERSONS	492	300

GENERAL POOL NOTES

1. ⌀ DENOTES WATER DEPTH FROM WATER LEVEL.
2. TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
3. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL DIMENSIONS RELATING TO THE THICKNESS OF THE NEW WARM-UP POOL SURGE TANK SHELL AND CONCRETE CURING METHODS.
4. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MUST NOT EXCEED 25'-0" APART FROM EACH OTHER, AND MUST BE PLACED AT EVEN FOOT INTERVALS PER LOCAL CODE.
5. ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MUST BE SUBMITTED FOR APPROVAL.
6. SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
7. REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
8. ALL SURFACE WATER MUST DRAIN AWAY FROM THE POOL.
9. REFER TO ELECTRICAL FOR GFI OUTLETS ON POOL DECK.
10. ELECTRICAL INSPECTOR MUST APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
11. NO GROUND WATER MUST BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
12. ALL EXISTING WARM-UP POOL STRUCTURAL SHELL REINFORCING STEEL, RENOVATED STAINLESS STEEL MYRTHA GUTTER, METAL FITTINGS, EQUIPMENT WITHIN 5'-0" OF POOL EDGE AND ANY METAL PARTS OF POOL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION SYSTEM MUST BE BONDED PER NEC 680. REFER: 2/AQ-702
13. CONTRACTOR TO PROVIDE CHEMICAL QUANTITIES PER CONTRACTOR SUPPLIED POOL CHEMICAL SCHEDULE AFTER INITIAL WATER BALANCE IS REACHED PRIOR TO OWNER TURNOVER.
14. THE NEW WARM-UP POOL SURGE TANK MUST BE WATER TESTED IN ACCORDANCE TO THE HYDROSTATIC TIGHTNESS TESTING OF AN OPEN CONCRETE CONTAINMENT STRUCTURE AS REQUIRED BY THE AMERICAN CONCRETE INSTITUTE (ACI) 350.1-10 SECTION 2. REFER TO SPECIFICATIONS. REFER: 3-4/AQ-702

DRAWING INDEX

SHEET	DESCRIPTION
AQ-000	POOL REFERENCE PLAN
AQ-101	POOL MECHANICAL ROOM DEMO. PLAN (FOR REFERENCE ONLY)
AQ-200	POOL SITE RENOVATION PLAN
AQ-300	RENOVATION PLAN
AQ-301	WARM-UP POOL DETAILS
AQ-400	POOL PIPING PLANS
AQ-500	POOL MECHANICAL ROOM PLAN
AQ-501	POOL MECHANICAL ROOM SECTIONS
AQ-600	SURGE TANK PLAN & SECTIONS
AQ-700	POOL MECHANICAL DETAILS
AQ-701	POOL MECHANICAL DETAILS
AQ-702	POOL MECHANICAL DETAILS
AQ-800	POOL SYSTEM SCHEMATICS

CONTRACTOR SUPPLIED POOL CHEMICALS

DESCRIPTION	AMOUNT
CALCIUM HYPOCHLORITE	FULL FEEDER(S) + 350 LBS
SODIUM BISULFATE	FULL FEEDER(S) + 150 LBS
SODIUM BICARBONATE	200 LBS
CALCIUM CARBONATE	100 LBS
SODIUM THIOSULFATE	50 LBS

APPLICABLE CODE: 2022 CBC

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.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. 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.
3. 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:

A. 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.

B. 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 THE 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 THE ABOVE REQUIREMENTS.

APPLICABLE CODE: 2022 CBC

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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐MD☐PP☐E☐OPTION 1: PROJECT-SPECIFIC DESIGN.

MP☒MD☐PP☐E☐OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

MP☐MD☐PP☐E☐OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

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ISSUED: SEPTEMBER 9, 2025

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
JEFFREY J. NOSSETT
No. 32290
MECHANICAL
STATE OF CALIFORNIA

REVISIONS
⌀

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

POOL REFERENCE PLAN

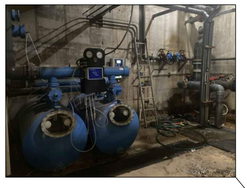
DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

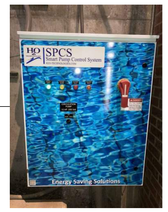
AQ-000

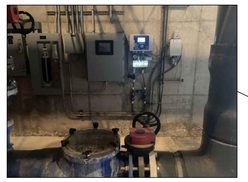
DATE: March 06, 2025

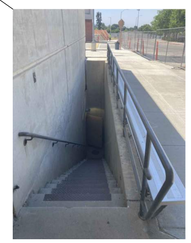
100% CONSTRUCTION DOCUMENTS

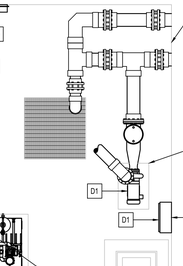


AIRWAY
OPEN TO ABOVE









EXISTING
WARM-UP POOL
SURGE TANK

1 AQ-101 POOL MECHANICAL ROOM DEMOLITION PLAN
1/4" = 1'-0"

GENERAL POOL DEMOLITION AND RENOVATION NOTES

1. COORDINATE ALL DEMOLITION PLANS AND WORK WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO THE START OF DEMOLITION.
2. REVIEW RECORD DOCUMENTS OF EXISTING CONSTRUCTION PROVIDED BY THE OWNER. NEITHER THE OWNER NOR ENGINEER MAKES ANY GUARANTEE THAT THE EXISTING CONDITIONS REFLECT THOSE INDICATED IN THE RECORD DOCUMENTS. CONTRACTOR TO PROVIDE NOTIFICATION OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH DEMOLITION.
3. CONTRACTOR TO SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR TO RECORD EXISTING CONDITIONS WITH DETAILED PRECONSTRUCTION PHOTOGRAPHS.
4. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF THE CONTRACTOR.
5. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RECYCLED, REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM. OWNER HAS THE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION MATERIALS.
6. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY THE OWNER AND ENGINEER.
7. INDICATE RECEIPT AND ACCEPTANCE OF ANY HAZARDOUS WASTES BY A LANDFILL FACILITY LICENSED TO ACCEPT SUCH HAZARDOUS WASTES.
8. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. REFER TO OTHER TRADES FOR COORDINATION.
9. ELECTRICIAN MUST VERIFY EXISTING BOND GRID. ALL NEW EMBEDS AND MECHANICAL EQUIPMENT MUST BE BONDED PER NEC ARTICLE 680.
10. ALL EXISTING BELOW GRADE POOL PIPING SYSTEMS MUST BE HYDROSTATICALLY (WATER) PRESSURE TESTED FOR LEAKS BEFORE THE START OF CONSTRUCTION TO VERIFY WATER TIGHTNESS. PNEUMATIC (AIR) TESTING IS NOT PERMITTED. REPORT TEST RESULTS TO THE ENGINEER TO REVIEW. REFER TO THE SWIMMING POOL SPECIFICATION FOR TESTING REQUIREMENTS.
11. PROTECT ALL EXISTING POOL FINISHES, GUTTERS, MAIN DRAINS, AND ANY OTHER POOL RELATED APPURTENANCES DURING CONSTRUCTION.
12. ALL EXISTING BELOW GRADE PIPING MUST BE PROTECTED DURING CONSTRUCTION. REFER TO PIPING SCHEMATICS FOR SPECIFIC PIPING RUNS TO BE REPLACED/RELOCATED AS A PART OF THE RENOVATION.
13. THE CONTRACTOR MUST BE RESPONSIBLE FOR CONTINUOUSLY MONITORING GROUNDWATER LEVELS ON THE SITE DURING ANY AND ALL PERIODS WHEN THE SWIMMING POOL IS NOT FULL OF WATER. PROTECTION OF THE EXISTING POOL STRUCTURE FROM DAMAGE DUE TO HYDROSTATIC PRESSURE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
14. CONTRACTOR TO PROVIDE AND EXECUTE APPROVED DUST CONTROL PLAN.
15. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS FOLLOWING DEMOLITION OPERATIONS. CONTRACTOR TO RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE THE START OF DEMOLITION OPERATIONS.

POOL MECHANICAL DEMOLITION KEYNOTES

COORDINATE ALL DEMOLITION PLANS WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO DEMOLITION

D1	REMOVE EXISTING WARM-UP POOL RECIRCULATION PUMP AND ITS CORRESPONDING MOTOR STARTER/VFD.
D2	REMOVE EXISTING COMPETITION POOL RECIRCULATION PUMP AND ITS CORRESPONDING MOTOR STARTER/VFD.
D3	REMOVE COMPETITION POOL FILTERS & PIPING MANIFOLD. PROTECT FOR RELOCATION & REUSE.
D4	REMOVE WARM-UP POOL FILTERS & PIPING MANIFOLD. PROTECT FOR RELOCATION & REUSE.
D5	REMOVE EXISTING COMPETITION POOL HEATERS. DISCONNECT PIPING, VENTING, AND GAS/ELECTRIC CONNECTIONS FOR RELOCATION & REUSE.
D6	REMOVE EXISTING WARM-UP POOL HEATER. DISCONNECT PIPING, VENTING, AND GAS/ELECTRIC CONNECTIONS. CONTRACTOR TO COORDINATE DISPOSAL.
D7	REMOVE EXISTING WARM-UP POOL CHEMICAL CONTROLLER. PROTECT FOR RELOCATION & REUSE.
D8	REMOVE EXISTING COMPETITION POOL CHEMICAL CONTROLLER. PROTECT FOR RELOCATION & REUSE.

AGENCY APPROVAL DSA# 03-124689

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124689 INC:
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DATE: 08/18/2025

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REGISTERED PROFESSIONAL ENGINEER
JEFFREY J. ROGERS
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REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

POOL MECHANICAL ROOM DEMO. PLAN

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

AQ-101

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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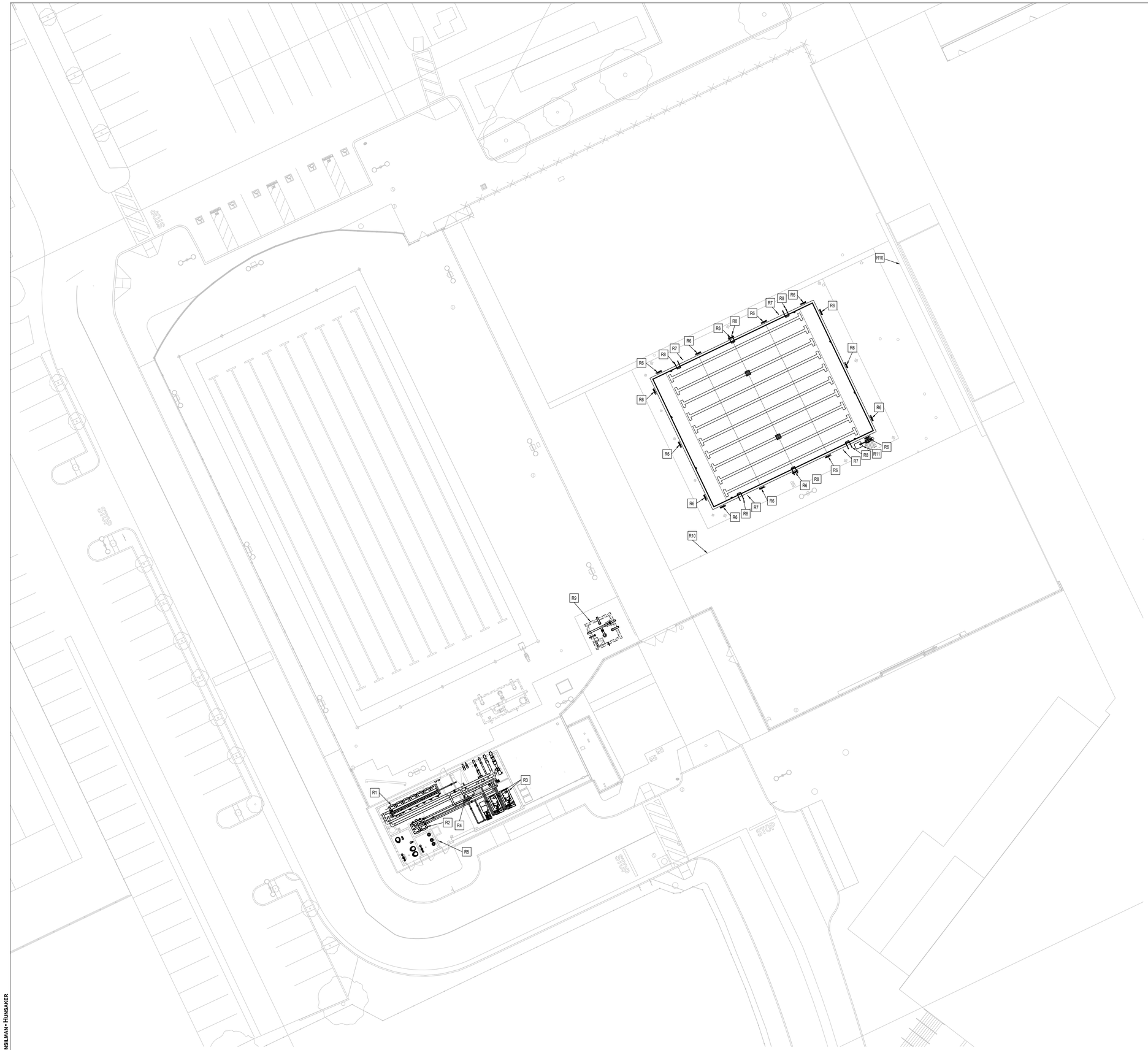
ISSUED: SEPTEMBER 9, 2025



1 AQ-200 POOL SITE RENOVATION PLAN

1/16" = 1'-0"

GENERAL POOL DEMOLITION AND RENOVATION NOTES

1. COORDINATE ALL DEMOLITION PLANS AND WORK WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO THE START OF DEMOLITION.
2. REVIEW RECORD DOCUMENTS OF EXISTING CONSTRUCTION PROVIDED BY THE OWNER. NEITHER THE OWNER NOR ENGINEER MAKES ANY GUARANTEE THAT THE EXISTING CONDITIONS REFLECT THOSE INDICATED IN THE RECORD DOCUMENTS. CONTRACTOR TO PROVIDE NOTIFICATION OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH DEMOLITION.
3. CONTRACTOR TO SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR TO RECORD EXISTING CONDITIONS WITH DETAILED PRECONSTRUCTION PHOTOGRAPHS.
4. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF THE CONTRACTOR.
5. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RECYCLED, REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM. OWNER HAS THE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION MATERIALS.
6. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY THE OWNER AND ENGINEER.
7. INDICATE RECEIPT AND ACCEPTANCE OF ANY HAZARDOUS WASTES BY A LANDFILL FACILITY LICENSED TO ACCEPT SUCH HAZARDOUS WASTES.
8. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. REFER TO OTHER TRADES FOR COORDINATION.
9. ELECTRICIAN MUST VERIFY EXISTING BOND GRID. ALL NEW EMBEDS AND MECHANICAL EQUIPMENT MUST BE BONDED PER NEC ARTICLE 680.
10. ALL EXISTING BELOW GRADE POOL PIPING SYSTEMS MUST BE HYDROSTATICALLY (WATER) PRESSURE TESTED FOR LEAKS BEFORE THE START OF CONSTRUCTION TO VERIFY WATER TIGHTNESS. PNEUMATIC (AIR) TESTING IS NOT PERMITTED. REPORT TEST RESULTS TO THE ENGINEER TO REVIEW. REFER TO THE SWIMMING POOL SPECIFICATION FOR TESTING REQUIREMENTS.
11. PROTECT ALL EXISTING POOL FINISHES, GUTTERS, MAIN DRAINS, AND ANY OTHER POOL RELATED APPURTENANCES DURING CONSTRUCTION.
12. ALL EXISTING BELOW GRADE PIPING MUST BE PROTECTED DURING CONSTRUCTION. REFER TO PIPING SCHEMATICS FOR SPECIFIC PIPING RUNS TO BE REPLACED/RELOCATED AS A PART OF THE RENOVATION.
13. THE CONTRACTOR MUST BE RESPONSIBLE FOR CONTINUOUSLY MONITORING GROUNDWATER LEVELS ON THE SITE DURING ANY AND ALL PERIODS WHEN THE SWIMMING POOL IS NOT FULL OF WATER. PROTECTION OF THE EXISTING POOL STRUCTURE FROM DAMAGE DUE TO HYDROSTATIC PRESSURE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
14. CONTRACTOR TO PROVIDE AND EXECUTE APPROVED DUST CONTROL PLAN.
15. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS FOLLOWING DEMOLITION OPERATIONS. CONTRACTOR TO RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE THE START OF DEMOLITION OPERATIONS.

POOL RENOVATION KEYNOTES

COORDINATE ALL RENOVATION PLANS WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO RENOVATION

R1	REINSTALL EXISTING COMPETITION POOL FILTER SYSTEM.
R2	REINSTALL EXISTING LEISURE POOL FILTER SYSTEM.
R3	REINSTALL EXISTING COMPETITION POOL HEATERS.
R4	REINSTALL EXISTING COMPETITION POOL CHEMICAL CONTROLLER.
R5	REINSTALL EXISTING WARM-UP POOL CHEMICAL CONTROLLER.
R6	INSTALL NEW DEPTH MARKERS & WARNING SIGNS. REFER TO AQ-300 FOR DEPTH MARKER & WARNING SIGN LOCATIONS.
R7	INSTALL NEW STANCHION POST ANCHORS. REFER TO AQ-300 FOR STANCHION POST ANCHOR LOCATIONS.
R8	INSTALL NEW WEDGE ANCHORS AT ALL EXISTING REMOVABLE LADDER LOCATIONS. REFER TO AQ-300 FOR WEDGE ANCHOR LOCATIONS.
R9	CONSTRUCT NEW WARM-UP POOL SURGE TANK IN ACCORDANCE WITH AQ-600.
R10	REPLACE ALL REQUIRED EXISTING POOL SIGNAGE. REFER TO AS-BUILTS & ARCHITECTURAL.
R11	RELOCATE AND REINSTALL EXISTING POOL LIFT.

POOL SAFETY/SIGNAGE KEYNOTES

PER CODE CBC/CCR SECTION 3120B: SALVAGE OR REPLACE ALL EXISTING POOL SIGNAGE. SIGNS MUST BE CLEARLY LEGIBLE NOT LESS THAN 4" HIGH, AFFIXED TO A WALL, POLE, GATE OR SIMILAR LOCATION PERMANENT AND IN A VISIBLE LOCATION TO THE POOL USERS.

- POOL USER CAPACITY SIGN (NUMBER OF USERS FOR POOL)
- NO DIVING SIGN
- NO LIFEGUARD ON DUTY SIGN, INCLUDING: CHILDREN UNDER THE AGE OF 14 SHALL NOT USE POOL WITHOUT A PARENT OR ADULT GUARDIAN IN ATTENDANCE
- ARTIFICIAL RESPIRATION & CARDIOPULMONARY RESUSCITATION SIGN
- EMERGENCY SIGN
- 911
- NEAREST EMERGENCY SERVICES
- NAME AND STREET ADDRESS OF THE POOL FACILITY
- IF WARM-UP POOL WILL NOT BE USED AFTER DARK:
- PROVIDE A "NO USE OF POOL ALLOWED AFTER DARK" SIGN AT POOL ENTRANCE/GATE.
- KEEP GATE CLOSED OR KEEP DOOR CLOSED SIGNS SHOULD BE ON EXTERIOR SIDE OF GATES AND DOORS
- DIARRHEA SIGN

PER CODE CBC/CCR SECTION 6554D: SALVAGE OR REPLACE EXISTING SAFETY & FIRST AID EQUIPMENT AS REQUIRED INCLUDING BUT NOT LIMITED TO:

- LIFE RING & THROW ROPE
- 12' MINIMUM FIXED-LENGTH RESCUE POLE WITH PERMANENTLY ATTACHED BODY HOOK
- FIRST AID KIT, SPINEBOARD W/HEAD IMMOBILIZER, TELEPHONE.

NOTE: COORDINATE/CONFIRM FINAL LOCATIONS WITH ARCHITECT/OWNER PRIOR TO OPERATION.

AGENCY APPROVAL DSA# 03-124689

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NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

POOL SITE RENOVATION PLAN

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

AQ-200

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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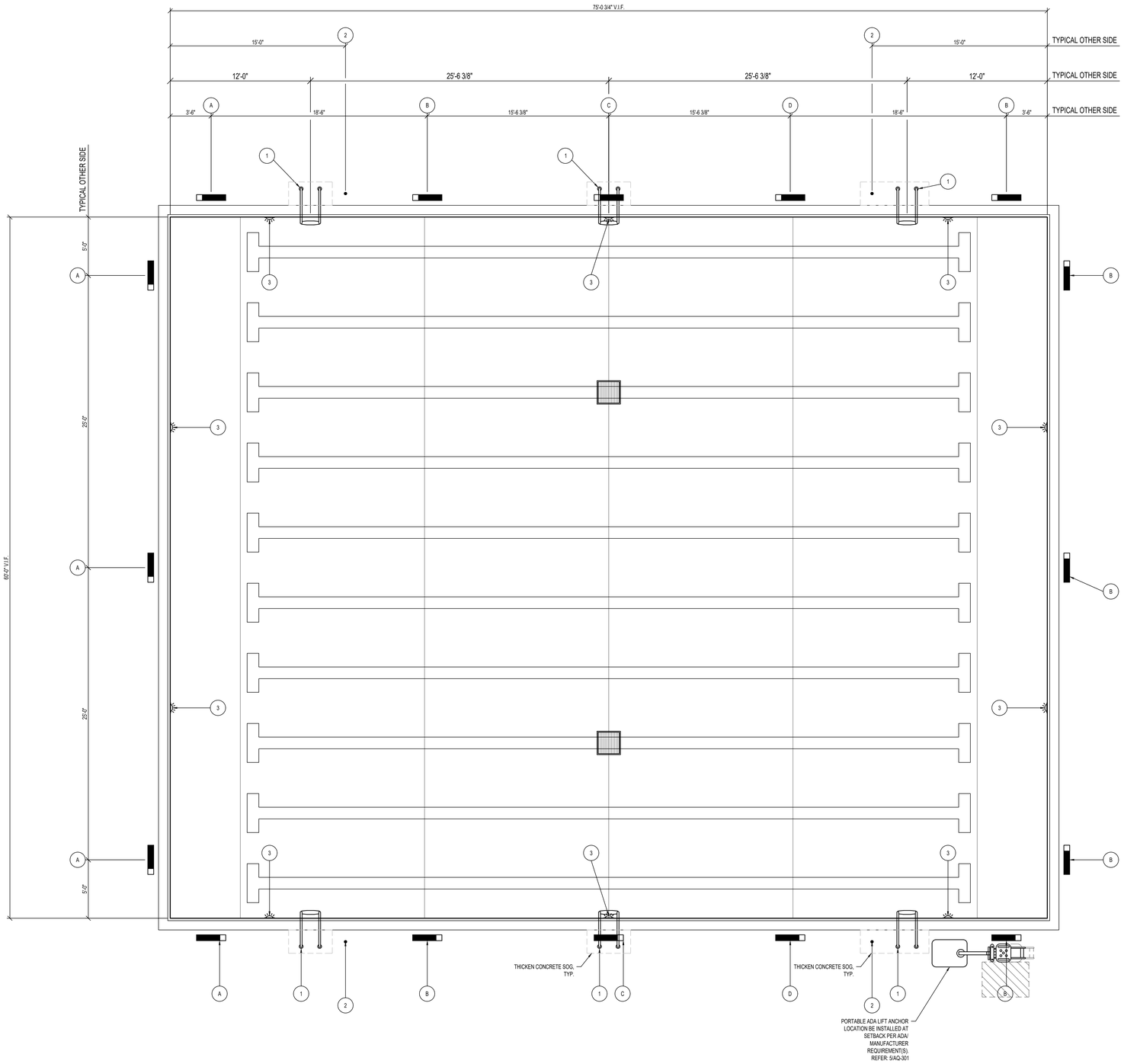
ISSUED: SEPTEMBER 9, 2025



1 AQ-300 RENOVATION PLAN

1/4" = 1'-0"

DEPTH & WARNING SIGNAGE SCHEDULE

ID	SIGNAGE
A	3 FT 6 IN
B	4 FT 6 IN
C	5 FT 0 IN
D	4 FT 9 IN

NOTE:
REFER: 1/AQ-301 FOR DETAIL.

EQUIPMENT SCHEDULE

ID	ITEM
1	EXISTING REMOVABLE LADDER REFER: 4/AQ-301
2	EXISTING STANCHION POST & ANCHOR REFER: 2/AQ-301
3	EXISTING UNDERWATER LIGHT

AGENCY APPROVAL DSA# 03-124689

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

RENOVATION PLAN

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

AQ-300

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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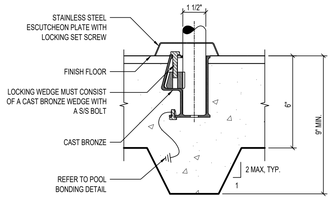
ISSUED: SEPTEMBER 9, 2025

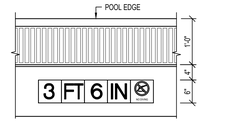
PLAN



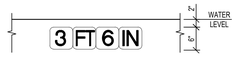
SECTION

3 AQ-301 **WEDGE ANCHOR**

3" = 1'-0"



DEPTH MARKER & WARNING SIGN PLAN

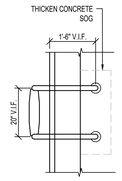


DEPTH MARKER ELEVATION

NOTE:
1. ALL HORIZONTAL TILE DEPTH MARKERS AND WARNING SIGNS MUST BE PROVIDED AS 6"x6" TILES WITH MINIMUM 4" TALL CONTRASTING LETTERS AND NUMBERS. COLOR BY ARCHITECT.
2. ALL VERTICAL TILE DEPTH MARKERS MUST BE PROVIDED AS 6"x6" VINYL STICKON WITH MINIMUM 4" TALL CONTRASTING LETTERS AND NUMBERS. COLOR BY ARCHITECT.
3. PROVIDE NO DIVING WARNING SIGNS WITH 6"x6" TILE DISPLAYING INTERNATIONAL NO DIVING SYMBOL.
4. ALL HORIZONTAL TILE INSTALLATIONS MUST HAVE A SLIP RESISTANT FINISH.

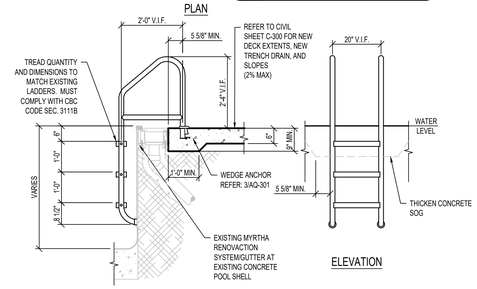
1 AQ-301 **DEPTH MARKERS & WARNING SIGNS**

3/4" = 1'-0"



PLAN

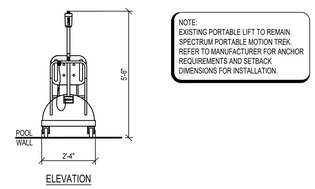
NOTE:
1. CONTRACTOR TO VERIFY EXISTING REMOVABLE LADDERS AND REPLACE DECK ANCHORS IN-KIND TO MATCH S.S. TUBE DIAMETER AND DIMENSIONS.
2. REFER TO AS-BUILTS, SHEET AQ-1B DETAIL B, FOR ORIGINAL LADDER & ANCHOR DIMENSIONS/SPECS.
3. 3111B.2: LADDERS SHALL BE CORROSION RESISTANT AND SHALL BE EQUIPPED WITH SLIP-RESISTANT TREAD SURFACES. LADDERS SHALL BE RIGIDLY INSTALLED AND SHALL PROVIDE A CLEARANCE OF NOT LESS THAN 3 INCHES (76 MM) OR MORE THAN 5 INCHES (127 MM) BETWEEN ANY PART OF THE LADDER AND THE POOL WALL.
4. 3111B.4 LADDER TREADS AND RECESSED STEPS SHALL HAVE A MINIMUM TREAD OF 5 INCHES (127 MM) AND A WIDTH OF 14 INCHES (356 MM) AND SHALL BE DESIGNED TO BE READILY CLEANED. STEP RISERS SHALL BE UNIFORM AND SHALL NOT EXCEED 12 INCHES (305 MM) IN HEIGHT. THE FIRST RISER SHALL BE MEASURED FROM THE DECK.



SECTION

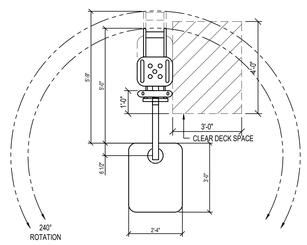
4 AQ-301 **EXISTING REMOVABLE LADDER**

1/2" = 1'-0"



ELEVATION

NOTE:
EXISTING PORTABLE LIFT TO REMAIN. SPECTRUM PORTABLE MOTION TREK. REFER TO MANUFACTURER FOR ANCHOR REQUIREMENTS AND SETBACK DIMENSIONS FOR INSTALLATION.

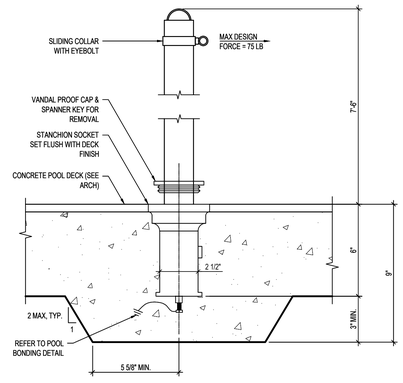


PLAN

5 AQ-301 **EXISTING PORTABLE POOL LIFT (FOR REFERENCE ONLY)**

3/8" = 1'-0"

PLAN



SECTION

2 AQ-301 **EXISTING STANCHION POST & ANCHOR**

3" = 1'-0"

AGENCY APPROVAL DSA# 03-124689

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PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

WARM-UP POOL DETAILS

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

AQ-301

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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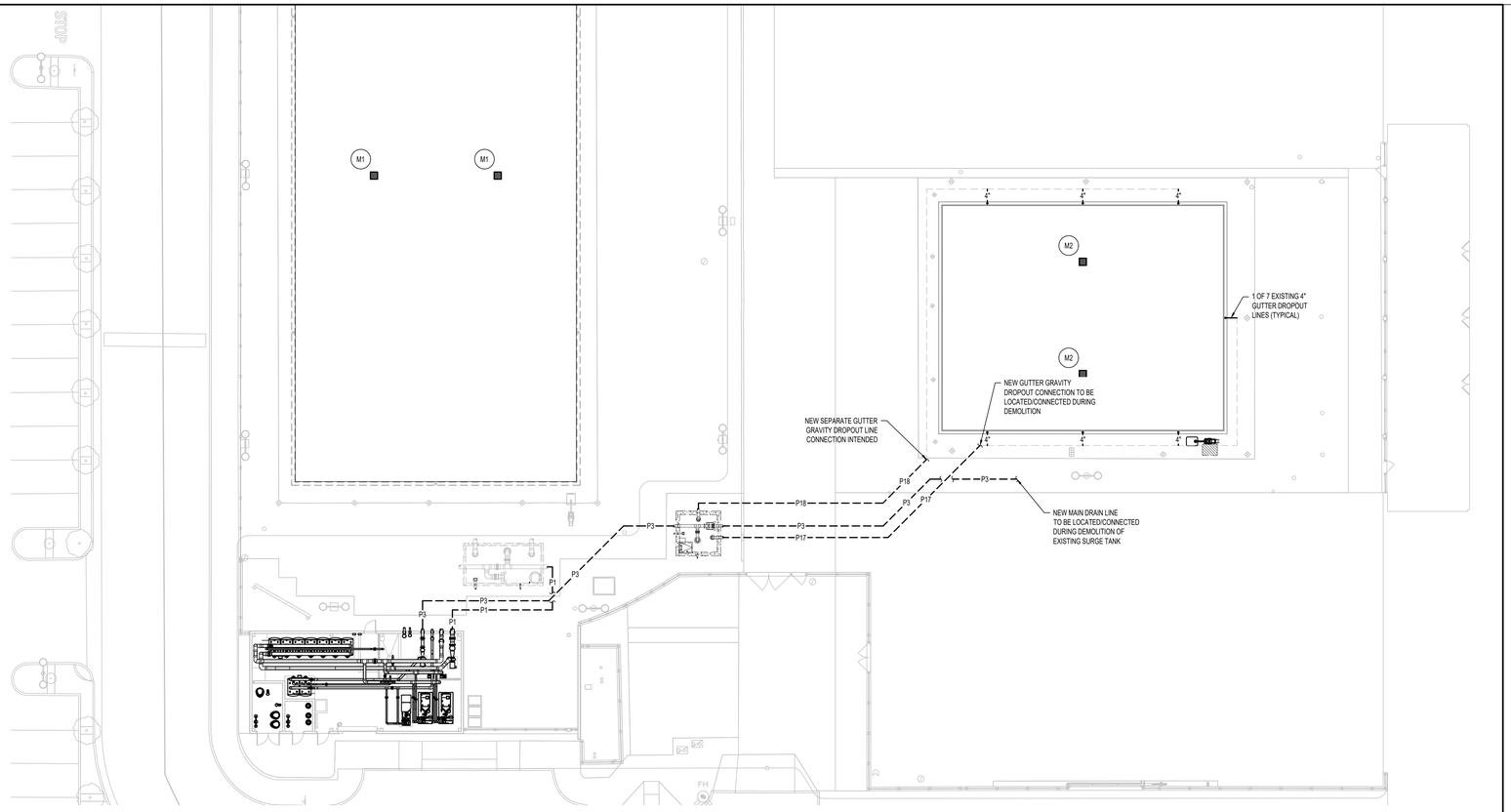
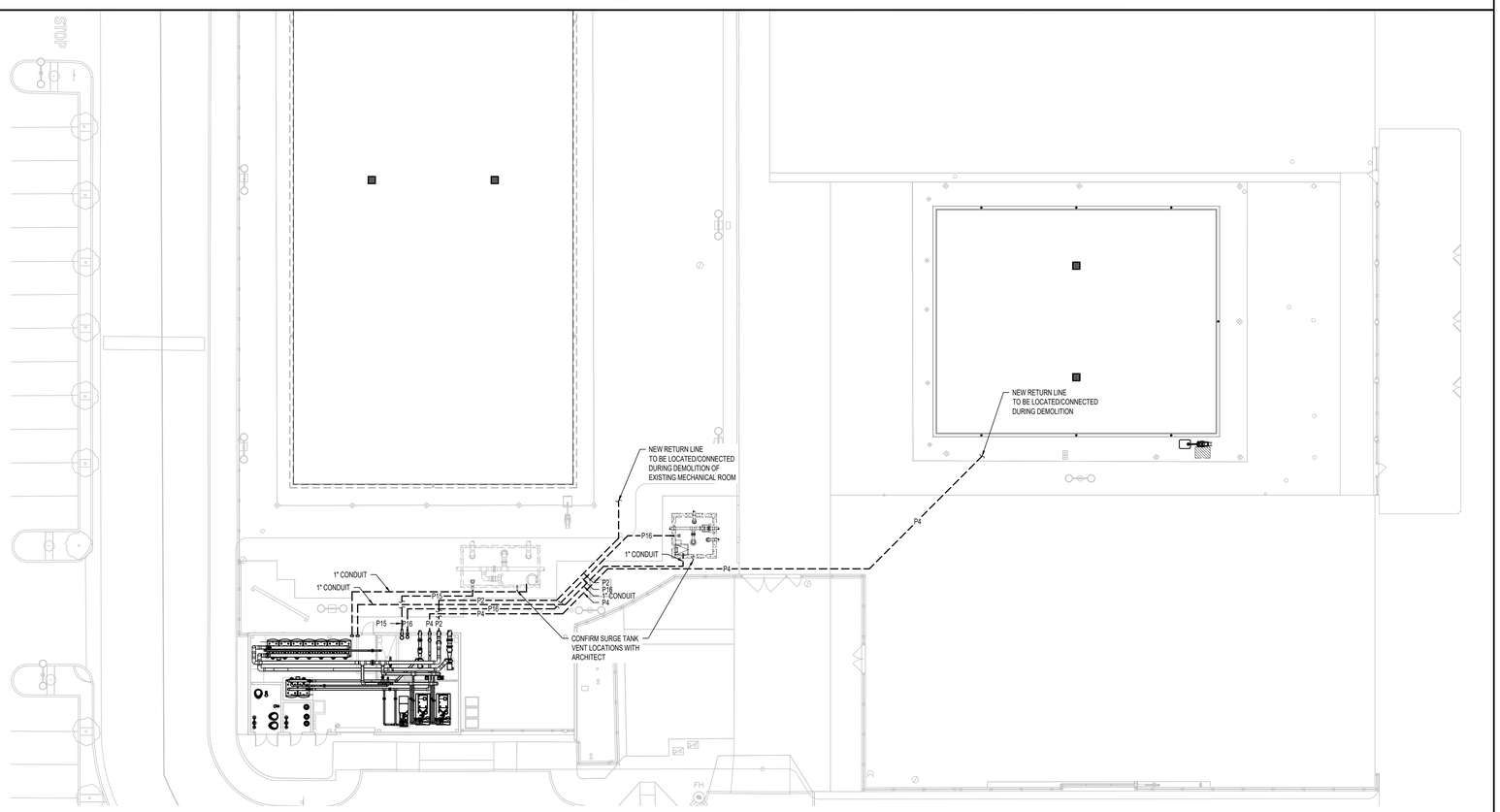
ISSUED: SEPTEMBER 9, 2025



1 AQ-400 POOL SUCTION PIPING PLAN

1/16" = 1'-0"



2 AQ-400 POOL RETURN PIPING PLAN

1/16" = 1'-0"

GENERAL PIPING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. PIPE SIZES INDICATED ARE NOMINAL, I.P.S.
3. UNLESS OTHERWISE NOTED, ALL OVERHEAD PIPING MUST BE TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB.
4. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
5. ALL PIPING WORK MUST BE COORDINATED WITH ALL TRADES AND SITE CONDITIONS. OFFSETS, EXPANSION LOOPS, OR TRANSITIONS IN PIPING AROUND OBSTRUCTIONS MUST BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
6. ALL PIPING INDICATED MUST BE CONSIDERED DIAGRAMMATIC.
7. ALL UNDERGROUND OR EXPOSED SWIMMING POOL PIPING MUST BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. CONTRACTOR MUST REFER TO PLANS AND SPECIFICATIONS FOR ANY SPECIFIC REQUIREMENTS REGARDING PLACEMENT AND BACKFILLING OF BELOW GRADE POOL PIPE.
8. ALL DIMENSIONS ARE INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCES.
9. THE CHEMICAL SENSOR LINE MUST BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO ITS RESPECTIVE FILL FUNNEL AND THE BACKWASH CATCH BASIN OR PUMP SUCTION.
10. ALL FLOOR INLETS MUST BE ADJUSTED TO ACHIEVE AN EVEN FLOW DISTRIBUTION THROUGHOUT SYSTEMS.
11. ALL PIPE TEES MUST BE SIZED FOR LARGEST PIPE CONNECTION.
12. SURGE TANK VENT PIPING TO ATMOSPHERE.

EXISTING MAIN DRAIN SCHEDULE

ID	DESCRIPTION	SIZE	QTY	DESIGN FLOW (GPM)	DESIGN VELOCITY (FPS)	MANUFACTURER	NOTES
M1	COMPETITION POOL	24X24	2	1,800	1.5 MAX	MYRTHA	1-4
M2	WARM-UP POOL	24X24	2	500	1.5 MAX	MYRTHA	1-4

NOTE:
1. MAXIMUM FACE VELOCITY MUST NOT EXCEED 1.5 FEET PER SECOND.
2. FASTEN MAIN DRAIN COVER TO SUMP WITH S/S TAMPER PROOF FASTENERS AT A SPACING NO GREATER THAN 24" O.C. REFER TO SUMP AND GRATE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. CONTRACTOR TO VERIFY THE LIFE OF THE EXISTING MAIN DRAIN COVERS. REPLACE IF NEEDED.
4. CONFIRM HYDROSTATIC RELIEF VALVE IS INSTALLED IN EACH MAIN DRAIN.

PIPE SCHEDULE

ID	DESCRIPTION
P1	12" FROM M1 TO PP1
P2	10" FROM F1 TO COMPETITION POOL INLETS
P3	8" FROM M2 TO PP2
P4	6" FROM F2 TO WARM-UP POOL INLETS
P5	10" FROM PP1 TO F1
P6	4" FROM F1 TO BACKWASH CATCH BASIN
P7	4" FROM P2 FROM H1
P8	4" FROM H1 FROM P2
P9	4" FROM P2 TO H2
P10	4" FROM H2 TO P2
P11	8" FROM PP2 TO F2
P12	4" FROM F2 TO BACKWASH CATCH BASIN
P13	4" FROM P4 TO H3
P14	4" FROM H3 TO P4
P15	6" FROM L1 TO COMPETITION POOL SURGE TANK
P16	4" FROM L2 TO WARM-UP POOL SURGE TANK
P17	8" FROM WARM-UP POOL GUTTER DROPOUTS TO SURGE TANK
P18	8" FROM WARM-UP POOL GUTTER DROPOUTS TO SURGE TANK
P19	3" SURGE TANK VENT LINE
P20	4" FROM P5 TO BACKWASH CATCH BASIN
P21	4" FROM P11 TO BACKWASH CATCH BASIN

NOTE:
REFER TO 9/AQ-701 FOR SEISMIC BRACING DETAIL.

PIPING LEGEND

LEGEND	QTY.	ITEM
COMPETITION POOL		
	2	EXISTING MAIN DRAIN
WARM-UP POOL		
	7	GUTTER DROPOUT BOX REFER: 8/AQ-702
	2	EXISTING MAIN DRAIN
COMBINED		
	N/A	BELOW GRADE PIPING

AGENCY APPROVAL DSA# 03-124689

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SS ☑ FLS ☑ ACS ☑
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NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

WARM-UP POOL PLAN

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

AQ-400

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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ISSUED: SEPTEMBER 9, 2025

EXISTING FILTER SCHEDULE

ID	POOL	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ. FT)	DESIGN FILTRATION RATE (GPM/SQ.FT.)	REQUIRED FILTRATION AREA (SQ. FT.)	DESIGN FILTRATION AREA (SQ. FT.)	FILTER BACKWASH RATE (GPM/SQ. FT.)	BACKWASH FLOW RATE PER FILTER (GPM)	MAX WEIGHT (LB)
F1	COMPETITION	EPD USA	ST10	7	HRS	20.0	15.58	90.0	115.5	15.0	247	32,112
F2	WARM-UP	EPD USA	S206	2	HRS	20.0	16.66	27.5	33.0	15.0	247	9,212

NOTE:
1. BACKWASH METHOD MUST BE SEMI-AUTOMATIC.
2. ALL FILTER SUPPORTS MUST BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.
3. FILTER MANUFACTURER MUST CERTIFY FILTER MEDIA.
4. THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH CATCH BASIN OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.
5. FILTER TANK ASSEMBLIES MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE 20 GPM PER SQUARE FOOT OF FILTER MEDIA.
6. THE BACKWASH THROTTLING VALVE(S) HANDLE MUST BE REMOVED AND TURNED OVER TO THE OWNER ONCE THE BACKWASH FLOW RATE(S) HAVE BEEN TESTED, ADJUSTED AND BALANCED.
7. PROVIDE 1" DIAMETER, SCHEDULE 80 PIPE FROM THE AUTOMATIC AIR VENT ON EACH OF THE FILTER VESSEL TO THE NEAREST FLOOR DRAIN OR BACKWASH CATCH BASIN. THE VENT PIPE MUST BE SLOPED TO THE DRAIN.
8. VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
9. VESSEL MUST BE BACKWASHED AT NO LESS THAN 15.0 GPM/SF.
10. PROVIDE MILLED ANGULAR SHAPED PARTICLES OF SILICA QUARTZ FOR FILTER MEDIA. PARTICLE SIZE MUST BE BETWEEN 0.45MM AND 0.55MM AND HAVE A MAXIMUM UNIFORMITY COEFFICIENT OF 1.53.
11. PUMP VFD/CHEMICAL CONTROLLER TO BE CONFIGURED FOR AUTOMATIC FILTER BACKWASH CONTROL. SMART PUMP CONTROL SYSTEM (SPCS) BY H2O TECHNOLOGIES IS CONSIDERED EQUAL.
12. REFER TO S-10/AQ-702 FOR ANCHORAGE DETAIL.

FILL SCHEDULE

ID	POOL	FRESH WATER SUPPLY GPM (MIN.)	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO POOL SURGE TANK	DESIGN FILL TIME (HOURS)
L1	WARM-UP	106	8"	8"X4"	6"	4"	24
L2	FUTURE COMPETITION FILL FUNNEL	179	10"	10"X6"	8"	6"	60

NOTE:
REFER: 11/AQ-700

PUMP SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	MAX WEIGHT	HAIR & LINT			NOTES
										MAKE	SIZE	WEIGHT	
PP1	COMPETITION POOL RECIRCULATION PUMP REFER: 1/AQ-700	PACO	60123 LC	8X6	1,800	77	50	11.51	755 LB	MERMADE	12X8	110 LB	1-9
PP2	WARM-UP POOL RECIRCULATION PUMP REFER: 1/AQ-700	PACO	40957 LC	5X4	550	70	15	8.23	363 LB	MERMADE	8X5	85 LB	1-9

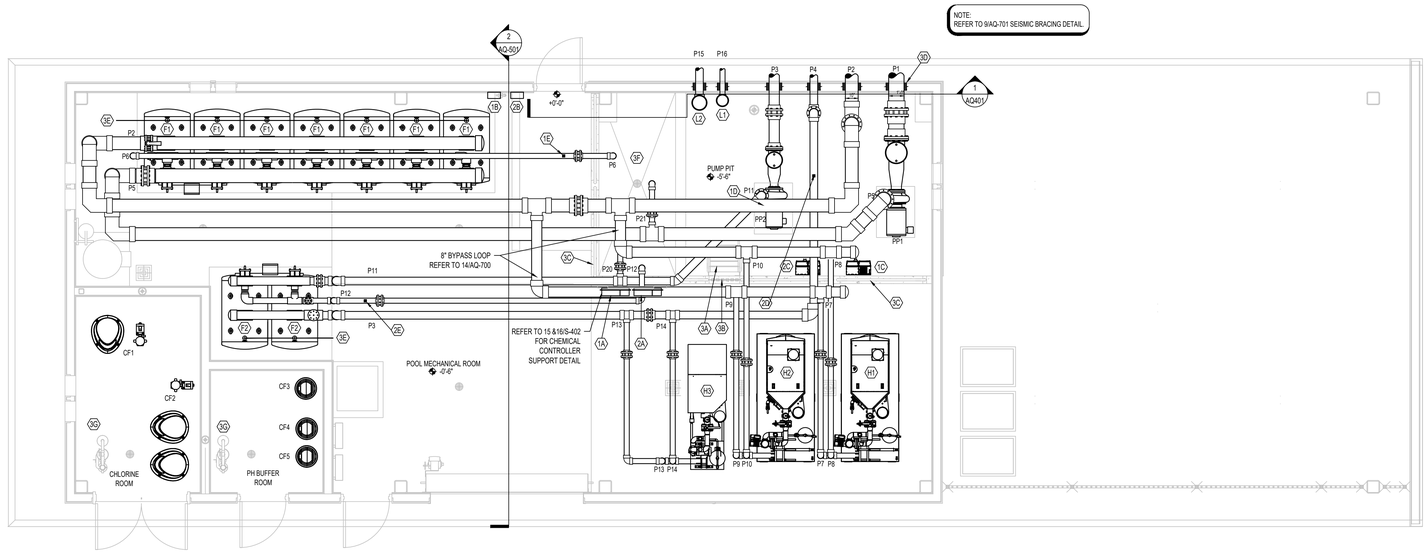
NOTE:
1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN. PUMP MANUFACTURERS: GRISWOLD, HERBORNER, PACO OR AURORA MUST BE CONSIDERED EQUAL PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS.
2. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
3. PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG / 0-60 PSI.
4. PROVIDE WITH 460 VOLT, 3 PHASE, 60HZ, 1750 RPM MOTOR.
5. PROVIDE WITH CHECK VALVE.
6. PROVIDE VARIABLE FREQUENCY DRIVE AND BYPASS.
7. VFD/CHEMICAL CONTROLLER TO BE CONFIGURED FOR AUTOMATIC FILTER BACKWASH CONTROL. SMART PUMP CONTROL SYSTEM (SPCS) BY H2O TECHNOLOGIES IS CONSIDERED EQUAL.
8. PROVIDE SPARE RECIRCULATION PUMP FOR EACH POOL (ATTIC STOCK).
9. REFER 7-8/AQ-702 FOR ANCHORAGE DETAIL.

HEATER SCHEDULE

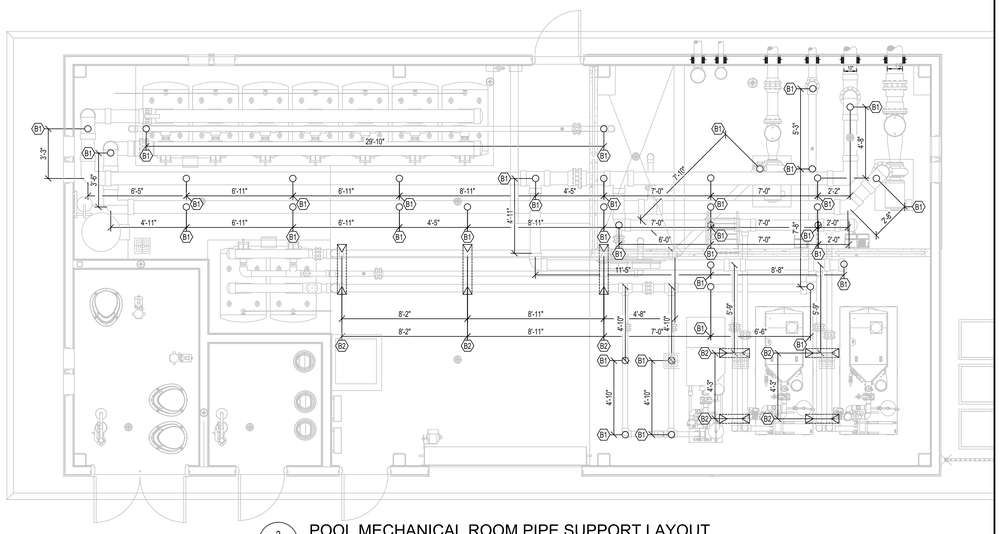
ID	POOL	MAKE	MODEL	BOILER EFF (%)	INPUT (MBH) NAT. GAS	MAKEUP WATER SIZE	PIPE SIZE (IN/OUT)	AIR INLET SIZE (INCHES)	VENT SIZE (INCH)	MAX WEIGHT (LB)	ELECTRICAL DATA (2 REQUIRED CONNECTIONS PER HEATER)			
											V	PH	HZ	AMP
H1	EXISTING COMPETITION POOL HEATER	LOCHINVAR	FBN1751	96	1,750,000	3/4"	4"	8"	8"	2,458	120	1	60	10
H2	EXISTING COMPETITION POOL HEATER	LOCHINVAR	FBN1751	96	1,750,000	3/4"	4"	8"	8"	2,458	120	1	60	10
H3	NEW WARM-UP POOL HEATER	LOCHINVAR	APO2000	96	1,999,000	1/2"	4"	8"	8"	3,397	120	1	60	22

NOTE:
1. THE BASIS OF DESIGN MANUFACTURER IS LOCHINVAR, ALTERNATE MANUFACTURER: RAYPACK OR APPROVED EQUAL.
2. HEATERS MUST BE INSTALLED ON HOUSEKEEPING PADS. REFER TO 4B/S-102 FOR DETAIL.
3. REFER TO 13-14/AQ-700 FOR HEATER PIPING SCHEMATIC.
4. REFER TO 11-12/AQ-702 FOR ANCHORAGE DETAIL.

NOTE:
REFER TO 9/AQ-701 SEISMIC BRACING DETAIL



1 AQ-500 POOL MECHANICAL ROOM PLAN
1/4" = 1'-0"



2 AQ-500 POOL MECHANICAL ROOM PIPE SUPPORT LAYOUT
1/4" = 1'-0"

				TRANSVERSE & LONGITUDINAL BRACING				
PIPE	DESCRIPTION	HANGER ATTACHMENT TYPE	HANGER ATTACHMENT DETAIL	SPACING	BRACE ANGLE (MEASURED FROM HORIZ. PLANE)	BRACE ATTACHMENT TYPE (MEASURED FROM HORIZ. PLANE)	BRACE ATTACHMENT DETAIL	NOTES
P1, P5	INDIVIDUALLY SUSPENDED 10" PVC PIPE	50D	1, 6, & 7/S-108	11 FT MAX	30 ° MIN, 60 ° MAX	50D	4 & 7/S-108	1-2
P13, P14	INDIVIDUALLY SUSPENDED 4" PVC PIPE	50D	1, 6, & 7/S-108	11 FT MAX	30 ° MIN, 60 ° MAX	50D	4 & 7/S-108	1-2
P7, P8, P9, P10	TRAPEZE (2) 4" CPVC PIPES	50D	1, 6, & 7/S-108	16 FT MAX	30 ° MIN, 60 ° MAX	50D	4 & 7/S-108	1, 3
P3, P11, P12	TRAPEZE (2) 6" & (1) 4" PVC PIPE	50D	1, 6, & 7/S-108	11 FT MAX	30 ° MIN, 60 ° MAX	50D	4 & 7/S-108	1, 3

NOTE:
1. REFER TO DETAIL 9/AQ-701 FOR HANGER ATTACHMENT TYPE AND BRACING ATTACHMENT TYPE.
2. REFER TO 5/AQ-701 FOR CLEVIS PIPE HANGER DETAIL.
3. REFER TO 8/AQ-701 FOR TRAPEZE HANGER DETAIL.

GENERAL POOL MECHANICAL ROOM NOTES

1. EQUIPMENT ROOM FLOOR AND PUMP PIT FLOOR MUST SLOPE 1/4" TO 1/2" PER FOOT TO FLOOR DRAINS OR SUMP PIT. REFER TO PLUMBING.
2. PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS.
3. THE INSIDE SURFACES OF THE BACKWASH CATCH BASIN MUST BE WATERPROOFED. REFER TO STRUCTURAL / SPECIFICATIONS.
4. VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
5. THE FOLLOWING INFORMATION MUST BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM. BACKWASH PROCEDURE, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS, AND POOL SYSTEMS SCHEMATICS.
6. REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.
7. REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, AND REMOVABLE RAILING AT PUMP PIT.
8. THE NOISE LEVEL FROM THE POOL EQUIPMENT LOCATED LESS THAN 10 FEET FROM A PROPERTY LINE OF AN ADJOINING PROPERTY MUST NOT EXCEED AMBIENT NOISE LEVEL BY MORE THAN FIVE (5) DECIBELS.

PIPING AND VALVING

1. MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.
2. PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
3. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
4. ALL FLOW METERS MUST BE SIZED TO MATCH THE PIPE ON WHICH IT IS INSTALLED. PROVIDE PRESSURE GAUGES ON INFLUENT AND EFFLUENT SIDE OF EACH FILTRATION SYSTEM AND A FULL LINE SIZE FLOW METER ON FILTER RETURN.
5. HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.
6. REFER TO DETAILS 5-10 ON DRAWING AQ-701 FOR INSTALLATION OF PIPE SUPPORTS.
7. ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDELINES. REFER: 2/AQ-701
4. ALL BALANCING VALVES AND BUTTERFLY VALVES MUST BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
5. ALL VALVES MUST BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
6. PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR; CHAIN MUST EXTEND TO 7'-0" ABOVE FINISHED FLOOR LEVEL.
7. ALL PIPING ROUTED THROUGH THE CHEMICAL ROOM WALLS INTO THE MAIN MECHANICAL ROOM MUST BE PROPERLY SEALED AND FIREPROOFED PER THE FIRE RATING OF THE ROOM. REFER TO ARCHITECT.

CHEMICAL TREATMENT

1. CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON AQ-700.
2. INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S) AND HEATER(S).
3. PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER: 8/AQ-700
4. SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PROVIDE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
5. WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
6. SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE PIPED PER THE SYSTEMS SCHEMATIC. BYPASS PIPING MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
7. PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS AND COORDINATE INTERFACE TO BUILDING MANAGEMENT SYSTEM. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.
8. INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT ON FILTERED WATER RETURN PIPE. CHEMICAL INJECTION POINTS MUST BE LOCATED DOWNSTREAM OF ALL OTHER EQUIPMENT/SYSTEMS IN THE POOL MECHANICAL ROOM AT A MAXIMUM HEIGHT OF 7'-0" ABOVE FINISHED FLOOR. REFER: 7/AQ-700

ELECTRICAL

1. GFCI'S PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
2. POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
3. CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.
4. MECHANICAL ROOM CONTROLLER MUST CONTROL OPERATIONS OF THE POOL RECIRCULATION PUMP PER THE ELECTRICAL DRAWINGS.
5. PROVIDE ELECTRICAL CONNECTION TO POOL HEATERS. REFER TO ELECTRICAL.
6. PROVIDE ELECTRICAL CONNECTION ADJACENT TO FILTER SYSTEM FOR FILTER BACKWASH CONTROLLER. REFER TO ELECTRICAL.

CHEMICAL FEED SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	HP	FLOW	MAX WEIGHT	NOTES
CF1	WARM-UP POOL CHLORINATION BOOSTER PUMP REFER: 4/AQ-700	PULSAR	PRECISION	1	189 LBS/DAY	37 LBS	1-3
CF2	COMPETITION POOL CHLORINATION BOOSTER PUMP REFER: 5/AQ-700	PULSAR	PRECISION DUO	2	378 LBS/DAY	37 LBS	1-3
CF3	WARM-UP POOL ACID FEED PUMP REFER: 3/AQ-700	PULSAR	ACID PLUS	N/A	60 LBS/DAY	37 LBS	1-3
CF4	COMPETITION POOL ACID FEED PUMP REFER: 3/AQ-700	PULSAR	ACID PLUS	N/A	60 LBS/DAY	37 LBS	1-3
CF5	COMPETITION POOL ACID FEED PUMP REFER: 3/AQ-700	PULSAR	ACID PLUS	N/A	60 LBS/DAY	37 LBS	1-3

NOTE:
1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN. ALTERNATE MANUFACTURER: ACCUTAB OR APPROVED EQUAL.
2. PROVIDE WITH 120 VOLT, SINGLE PHASE, ADJUSTABLE FEED.
3. INTERLOCK WITH POOL RECIRCULATION PUMP.

EQUIPMENT SCHEDULE

ID	ITEM
	COMPETITION POOL
1A	CHEMICAL CONTROLLER REFER: 2/AQ-700
1B	WATER LEVEL CONTROLLER REFER: 12/AQ-700
1C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
1D	FLOW METER SENSOR REFER: 9/AQ-700
1E	IMPACT FLOW METER REFER: 10/AQ-700
	WARM-UP POOL
2A	CHEMICAL CONTROLLER REFER: 2/AQ-700
2B	WATER LEVEL CONTROLLER REFER: 12/AQ-700
2C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
2D	FLOW METER SENSOR REFER: 9/AQ-700
2E	IMPACT FLOW METER REFER: 10/AQ-700
	COMBINED
3A	SHIPS LADDER REFER: 1/AQ-702
3B	SAFETY CHAIN
3C	REMOVABLE RAILING
3D	LINK SEAL (TYPICAL) REFER: 3/AQ-701
3E	HARD PIPE TO DRAIN
3F	12'-0"x5'-0"x5'-0" DEEP BACKWASH CATCH BASIN
3G	EMERGENCY EYEWASH & SHOWER STATION REFER TO PLUMBING

PIPE SCHEDULE

ID	DESCRIPTION
P1	12" FROM M1 TO PP1
P2	10" FROM F1 TO COMPETITION POOL INLETS
P3	8" FROM M2 TO PP2
P4	6" FROM F2 TO WARM-UP POOL INLETS
P5	10" FROM PP1 TO F1
P6	4" FROM F1 TO BACKWASH CATCH BASIN
P7	4" FROM P2 FROM H1
P8	4" FROM H1 FROM P2
P9	4" FROM P2 TO H2
P10	4" FROM H2 TO P2
P11	8" FROM PP2 TO F2
P12	4" FROM F2 TO BACKWASH CATCH BASIN
P13	4" FROM P4 TO H3
P14	4" FROM H3 TO P4
P15	6" FROM L1 TO COMPETITION POOL SURGE TANK
P16	4" FROM L2 TO WARM-UP POOL SURGE TANK
P17	8" FROM WARM-UP POOL GUTTER DROPOUTS TO SURGE TANK
P18	8" FROM WARM-UP POOL GUTTER DROPOUTS TO SURGE TANK
P19	3" SURGE TANK VENT LINE
P20	4" FROM P5 TO BACKWASH CATCH BASIN
P21	4" FROM P11 TO BACKWASH CATCH BASIN

NOTE:
REFER TO 9/AQ-701 FOR SEISMIC BRACING DETAIL.

PIPE HANGER SCHEDULE

ID	ITEM
B1	CLEVIS PIPE HANGER REFER: 5/AQ-701
B2	TRAPEZE PIPE HANGER REFER: 8/AQ-701

NOTE:
REFER TO SHEET S-202 FOR TRANSVERSE AND LONGITUDINAL BRACING LOCATIONS AT EACH PIPE HANGER.

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ISSUED: SEPTEMBER 9, 2025

AGENCY APPROVAL DSA# 03-124689

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

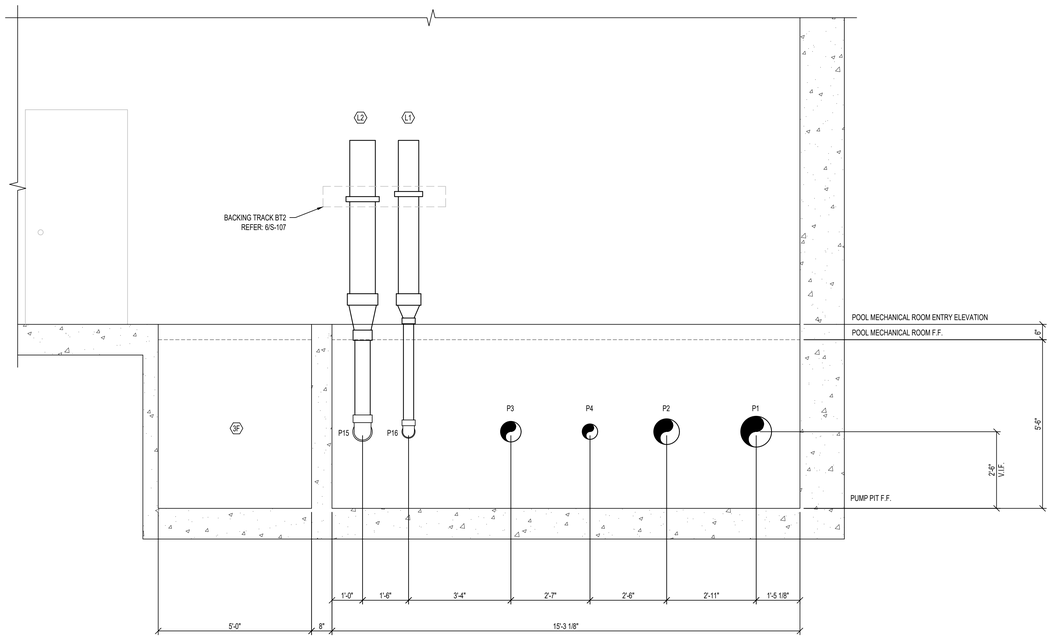
SHEET TITLE
POOL MECHANICAL ROOM PLAN

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.
AQ-500

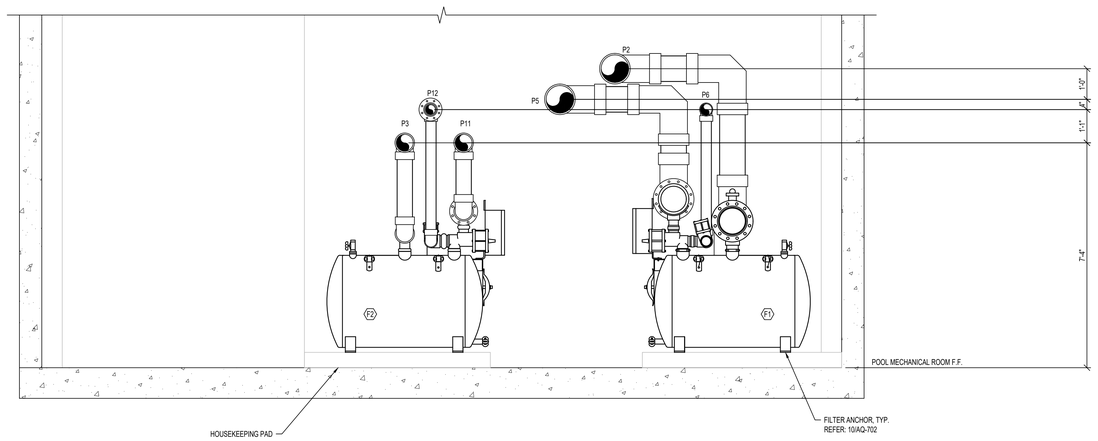
DATE: March 06, 2025

100% CONSTRUCTION DOCUMENTS



1 AQ-501 POOL MECHANICAL ROOM SECTION

1/2" = 1'-0"



2 AQ-501 POOL MECHANICAL ROOM SECTION

1/2" = 1'-0"

EQUIPMENT SCHEDULE

ID	ITEM
	COMPETITION POOL
1A	CHEMICAL CONTROLLER REFER: 2/AQ-700
1B	WATER LEVEL CONTROLLER REFER: 12/AQ-700
1C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
1D	FLOW METER SENSOR REFER: 9/AQ-700
1E	IMPACT FLOW METER REFER: 10/AQ-700
	WARM-UP POOL
2A	CHEMICAL CONTROLLER REFER: 2/AQ-700
2B	WATER LEVEL CONTROLLER REFER: 12/AQ-700
2C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
2D	FLOW METER SENSOR REFER: 9/AQ-700
2E	IMPACT FLOW METER REFER: 10/AQ-700
	COMBINED
3A	SHIPS LADDER REFER: 1/AQ-702
3B	SAFETY CHAIN
3C	REMOVABLE RAILING
3D	LINK SEAL (TYPICAL) REFER: 3/AQ-701
3E	HARD PIPE TO DRAIN
3F	12'-0"x5'-0"x5'-0" DEEP BACKWASH CATCH BASIN
3G	EMERGENCY EYEWASH & SHOWER STATION REFER TO PLUMBING

PIPE SCHEDULE

ID	DESCRIPTION
P1	12" FROM M1 TO PP1
P2	10" FROM F1 TO COMPETITION POOL INLETS
P3	8" FROM M2 TO PP2
P4	6" FROM F2 TO WARM-UP POOL INLETS
P5	10" FROM PP1 TO F1
P6	4" FROM F1 TO BACKWASH CATCH BASIN
P7	4" FROM P2 FROM H1
P8	4" FROM H1 FROM P2
P9	4" FROM P2 TO H2
P10	4" FROM H2 TO P2
P11	8" FROM PP2 TO F2
P12	4" FROM F2 TO BACKWASH CATCH BASIN
P13	4" FROM P4 TO H3
P14	4" FROM H3 TO P4
P15	6" FROM L1 TO COMPETITION POOL SURGE TANK
P16	4" FROM L2 TO WARM-UP POOL SURGE TANK
P17	8" FROM WARM-UP POOL GUTTER DROPOUTS TO SURGE TANK
P18	8" FROM WARM-UP POOL GUTTER DROPOUTS TO SURGE TANK
P19	3" SURGE TANK VENT LINE
P20	4" FROM P5 TO BACKWASH CATCH BASIN
P21	4" FROM P11 TO BACKWASH CATCH BASIN

NOTE:
REFER TO 9/AQ-701 FOR SEISMIC BRACING DETAIL.

AGENCY APPROVAL DSA# 03-124689

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APP: 03-124689 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/18/2025

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STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE
POOL MECHANICAL ROOM SECTIONS

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.
AQ-501

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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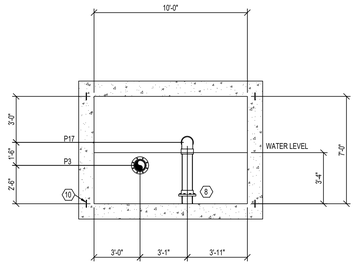
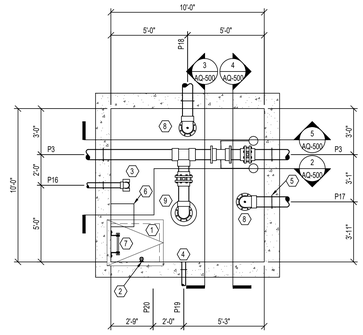
ISSUED: SEPTEMBER 9, 2025



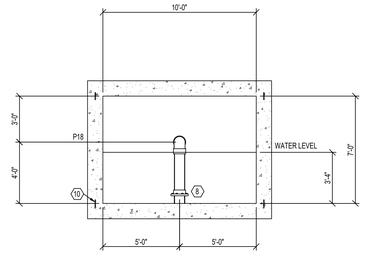
4 AQ-600 SURGE TANK SECTION

1/4" = 1'-0"



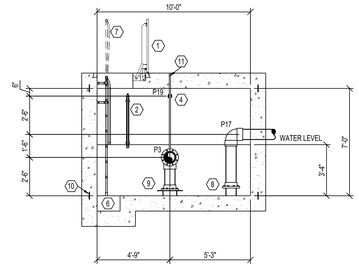
1 AQ-600 SURGE TANK PLAN

1/4" = 1'-0"



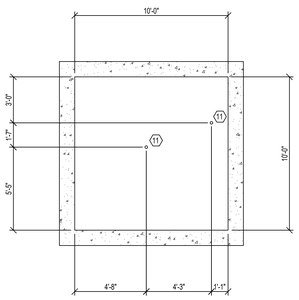
5 AQ-600 SURGE TANK SECTION

1/4" = 1'-0"



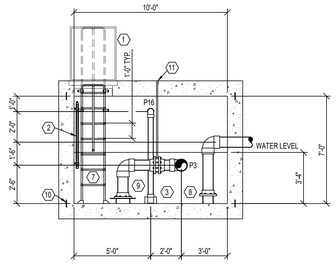
2 AQ-600 SURGE TANK SECTION

1/4" = 1'-0"



6 AQ-600 VALVE EXTENSION PLAN

1/4" = 1'-0"



3 AQ-600 SURGE TANK SECTION

1/4" = 1'-0"

SURGE TANK NOTES

1. ALL INTERIOR SURFACES OF SURGE TANK INCLUDING LID MUST BE WATERPROOFED. REFER TO STRUCTURAL / SPECIFICATIONS.
2. PROVIDE WATER TIGHT PIPE PENETRATIONS AND INTERFACES WITHIN THE SURGE TANK.
3. REFER TO BUILDING STRUCTURAL DRAWINGS FOR SURGE TANK STRUCTURAL SHELL DESIGN.
4. SLEEVES IN SLAB OVER SURGE TANK FOR VALVE EXTENSIONS POSITIONED DIRECTLY ABOVE SURGE TANK VALVES BELOW MUST BE COORDINATED.
5. DRILL 1" DIAMETER HOLE ON TOP OF ELBOW. TYPICAL ALL GUTTER DROPOUT LINES.
6. POLYPROPYLENE LADDER WITH PULL-UP HANDRAIL MUST BE PROVIDED.
7. REFER TO BUILDING STRUCTURAL DRAWINGS FOR WATER STOPS.
8. PVC ANTI-VORTEX PLATE MUST BE MINIMUM 2.5 TIMES CONNECTING PIPE DIAMETER UP TO 24" AND 4" A.F.F.
9. SUPPORT FLANGE WITH FOUR (4) LEGS EQUAL TO NOMINAL PIPE DIAMETER, BUT NOT LESS THAN 6" A.F.F.
10. PROVIDE 18"x18"x12" DEEP SUMP LOCATED NEAR ACCESS HATCH.

EQUIPMENT SCHEDULE

ID	ITEM
1	ACCESS HATCH REFER: 12/AQ-701
2	WATER LEVEL CONTROLLER(S) REFER: 12/AQ-700
3	SUPPORT TEE REFER: 16/AQ-701
4	SURGE TANK VENT REFER: 14/AQ-701
5	WATER SEAL (TYPICAL) REFER: 4/AQ-701
6	SUMP
7	SURGE TANK LADDER REFER: 13/AQ-701
8	SUPPORT FLANGE
9	ANTI-VORTEX PLATE
10	WATERSTOP (TYPICAL)
11	VALVE EXTENSION REFER: 15/AQ-701

PIPE SCHEDULE

ID	DESCRIPTION
P1	12" FROM M1 TO PP1
P2	10" FROM F1 TO COMPETITION POOL INLETS
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P4	6" FROM F2 TO WARM-UP POOL INLETS
P5	10" FROM PP1 TO F1
P6	4" FROM F1 TO BACKWASH CATCH BASIN
P7	4" FROM P2 FROM H1
P8	4" FROM H1 FROM P2
P9	4" FROM P2 TO H2
P10	4" FROM H2 TO P2
P11	8" FROM PP2 TO F2
P12	4" FROM F2 TO BACKWASH CATCH BASIN
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KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

SHEET TITLE

SURGE TANK PLAN & SECTIONS

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

AQ-600

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS

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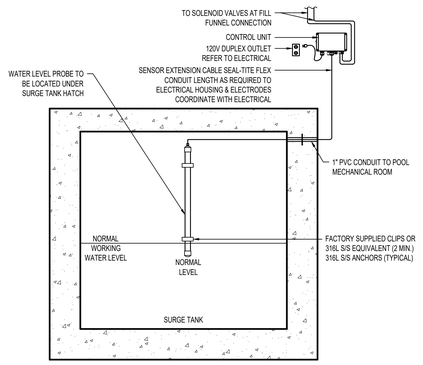
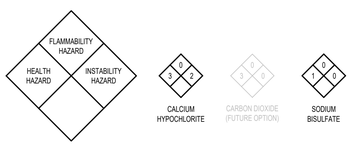
ISSUED: SEPTEMBER 9, 2025



12 AQ-700 **WATER LEVEL CONTROLLER**
1" = 1'-0"

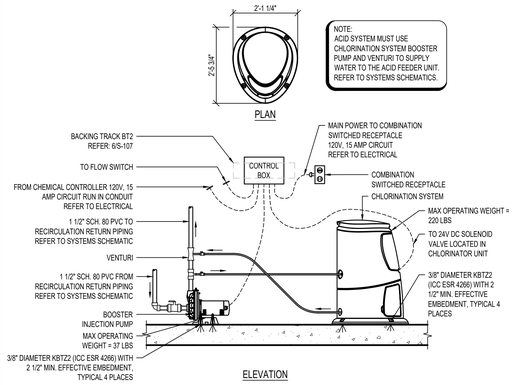


RATING EXPLANATION GUIDE

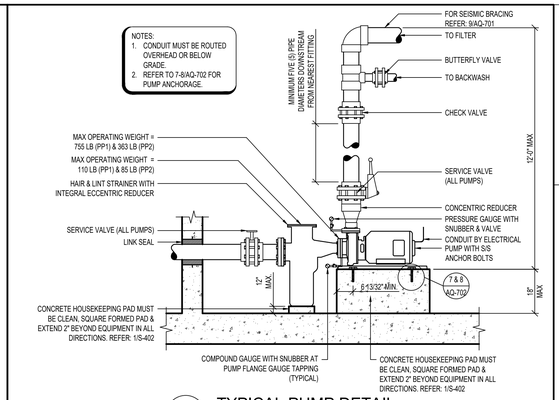
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD
4	CAN BE LETHAL	BELOW 73 DEGREES F	MAY EXPLODE AT NORMAL TEMPERATURES & PRESSURES
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	ABOVE 73 DEGREES, BELOW 100 DEGREES F	MAY EXPLODE AT HIGH TEMPERATURE OR SHOCK
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	ABOVE 100 DEGREES F, BELOW 200 DEGREES F	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES
1	CAN CAUSE SIGNIFICANT IRRITATION	ABOVE 200 DEGREES F	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE
0	NO HAZARD	WILL NOT BURN	STABLE

CONFIRM SIGNAGE WITH LOCAL FIRE MARSHAL AND/OR BUILDING CODES PRIOR TO INSTALLATION.

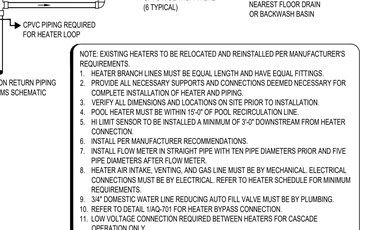
8 AQ-700 **HAZARD SIGNAGE**
NTS



4 AQ-700 **WARM-UP POOL CHLORINATION SYSTEM**
1/2" = 1'-0"

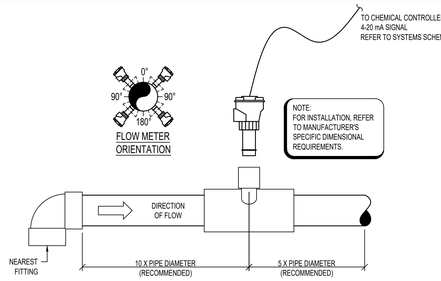


1 AQ-700 **TYPICAL PUMP DETAIL**
1/2" = 1'-0"

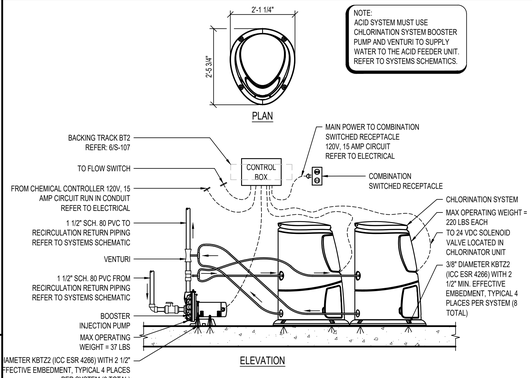


NOTE:
1. HEATER BRANCH LINES MUST BE EQUAL LENGTH AND HAVE EQUAL FITTINGS.
2. PROVIDE ALL NECESSARY SUPPORTS AND CONNECTIONS DEEMED NECESSARY FOR COMPLETE INSTALLATION OF HEATER AND PIPING.
3. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
4. POOL HEATER MUST BE WITHIN 15'-0" OF POOL RECIRCULATION LINE.
5. HI LIMIT SENSOR TO BE INSTALLED A MINIMUM OF 3'-0" DOWNSTREAM FROM HEATER CONNECTION.
6. INSTALL PER MANUFACTURER RECOMMENDATIONS.
7. INSTALL FLOW METER IN STRAIGHT PIPE WITH TEN PIPE DIAMETERS PRIOR AND FIVE PIPE DIAMETERS AFTER FLOW METER.
8. HEATER AIR INTAKE, VENTING, AND GAS LINE MUST BE BY MECHANICAL. ELECTRICAL CONNECTIONS MUST BE BY ELECTRICAL. REFER TO HEATER SCHEDULE FOR MINIMUM REQUIREMENTS.
9. 1/2" DOMESTIC WATER LINE TO PRESSURE REDUCING AUTO FILL VALVE MUST BE BY PLUMBING.
10. REFER TO DETAIL 1/AQ-701 FOR HEATER BYPASS CONNECTION.

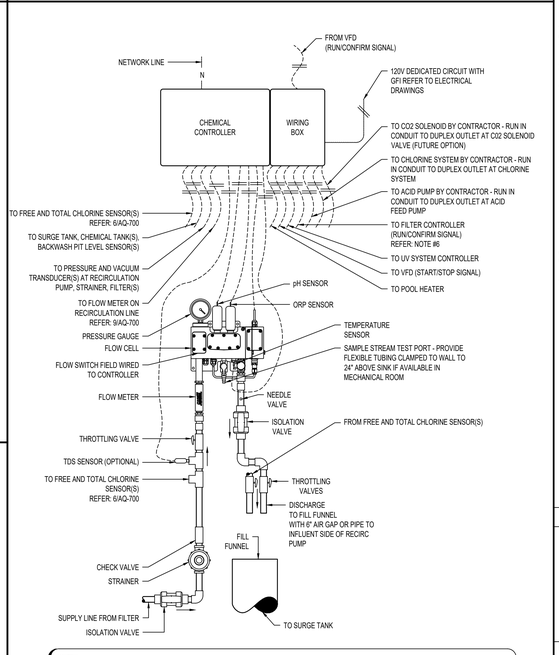
13 AQ-700 **NEW WARM-UP POOL HEATER PIPING**
NTS



9 AQ-700 **FLOW METER SENSOR**
3/4" = 1'-0"



5 AQ-700 **COMPETITION POOL CHLORINATION SYSTEM**
1/2" = 1'-0"

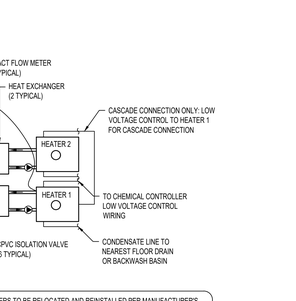


NOTES:
1. INTERLOCK WITH RECIRCULATION PUMP OCCURS INSIDE THE WIRING BOX.ON BECS CONTROLLERS. CONTRACTOR TO PROVIDE FIELD WIRE INTERLOCK EXTERNAL TO THE CONTROLLER IF A BECS CONTROLLER IS NOT USED.
2. DRAWING IS FOR REFERENCE ONLY. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PIPE RUN FROM RECIRCULATION PIPE TO SAMPLE CELL TO BE 50 FEET OR LESS.
4. SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
5. PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS AND COORDINATE INTERFACE TO BUILDING MANAGEMENT SYSTEM. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.
6. FILTER BACKWASHING OPTION: INCLUDED WITH EXISTING CONTROLLERS/BASIS OF DESIGN. WITH FLOW RATE SENSOR FOR ADVANCED VFD RECIRCULATION PUMP CONTROL FOR AUTOMATIC FILTER BACKWASHING. SPCS BY H2O TECHNOLOGIES OR APPROVED EQUAL.
7. REFER TO 7/AQ-702 FOR CHEMICAL CONTROLLER ANCHORAGE.

FOR REGENERATIVE MEDIA (DEFENDER) FILTERS (FUTURE OPTION)

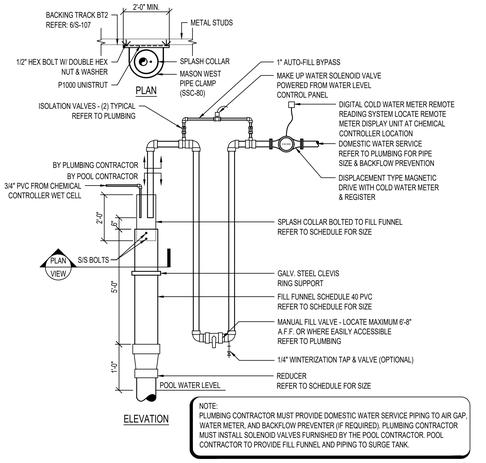
8. TO ALLOW THE FILTER CONTROLLER TO TURN OFF/ON THE RECIRCULATION PUMP, ROUTE THE "VFD (START/STOP SIGNAL)" THROUGH THE FILTER CONTROLLER PRIOR TO THE VF DRIVE.
9. TO ALLOW THE FILTER CONTROLLER TO TURN OFF/ON THE POOL HEATER, ROUTE THE "TO POOL HEATER" SIGNAL THROUGH THE FILTER CONTROLLER PRIOR TO THE POOL HEATER.

2 AQ-700 **CHEMICAL CONTROLLER**
NTS



NOTE: EXISTING HEATERS TO BE RELOCATED AND REINSTALLED PER MANUFACTURER'S REQUIREMENTS.
1. HEATER BRANCH LINES MUST BE EQUAL LENGTH AND HAVE EQUAL FITTINGS.
2. PROVIDE ALL NECESSARY SUPPORTS AND CONNECTIONS DEEMED NECESSARY FOR COMPLETE INSTALLATION OF HEATER AND PIPING.
3. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
4. POOL HEATER MUST BE WITHIN 15'-0" OF POOL RECIRCULATION LINE.
5. HI LIMIT SENSOR TO BE INSTALLED A MINIMUM OF 3'-0" DOWNSTREAM FROM HEATER CONNECTION.
6. INSTALL PER MANUFACTURER RECOMMENDATIONS.
7. INSTALL FLOW METER IN STRAIGHT PIPE WITH TEN PIPE DIAMETERS PRIOR AND FIVE PIPE DIAMETERS AFTER FLOW METER.
8. HEATER AIR INTAKE, VENTING, AND GAS LINE MUST BE BY MECHANICAL. ELECTRICAL CONNECTIONS MUST BE BY ELECTRICAL. REFER TO HEATER SCHEDULE FOR MINIMUM REQUIREMENTS.
9. 3/4" DOMESTIC WATER LINE REDUCING AUTO FILL VALVE MUST BE BY PLUMBING.
10. REFER TO DETAIL 1/AQ-701 FOR HEATER BYPASS CONNECTION.
11. LOW VOLTAGE CONNECTION REQUIRED BETWEEN HEATERS FOR CASCADE OPERATION ONLY.

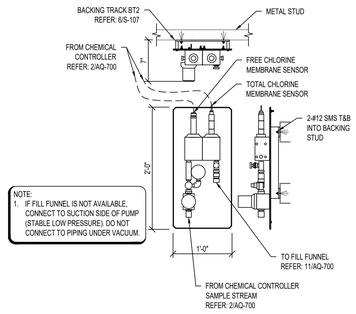
14 AQ-700 **EXISTING COMPETITION POOL HEATER PIPING**
NTS



10 AQ-700 **IMPACT FLOW METER SENSOR**
3/4" = 1'-0"

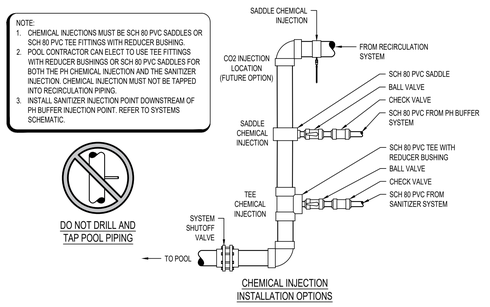
NOTE: PLUMBING CONTRACTOR MUST PROVIDE DOMESTIC WATER SERVICE PIPING TO AIR GAP, WATER METER, AND BACKFLOW PREVENTER (IF REQUIRED). PLUMBING CONTRACTOR MUST INSTALL SOLENOID VALVES FURNISHED BY THE POOL CONTRACTOR. POOL CONTRACTOR TO PROVIDE FILL FUNNEL AND PIPING TO SURGE TANK.

11 AQ-700 **FILL FUNNEL**
3/8" = 1'-0"



NOTE:
1. IF FILL FUNNEL IS NOT AVAILABLE, CONNECT TO SUCTION SIDE OF PUMP (STABLE LOW PRESSURE). DO NOT CONNECT TO PIPING UNDER VACUUM.

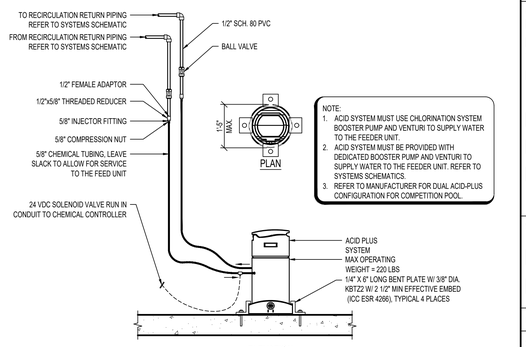
6 AQ-700 **FREE AND TOTAL CHLORINE SENSOR**
NTS



NOTE:
1. CHEMICAL INJECTIONS MUST BE SCH 80 PVC SADDLES OR SCH 80 PVC TEE FITTINGS WITH REDUCER BUSHING.
2. POOL CONTRACTOR CAN ELECT TO USE TEE FITTINGS WITH REDUCER BUSHINGS OR SCH 80 PVC SADDLES FOR BOTH THE PH CHEMICAL INJECTION AND THE SANITIZER INJECTION. CHEMICAL INJECTION MUST NOT BE TAPPED INTO RECIRCULATION PIPING.
3. INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT. REFER TO SYSTEMS SCHEMATIC.

DO NOT DRILL AND TAP POOL PIPING

7 AQ-700 **CHEMICAL INJECTION**
1/2" = 1'-0"



NOTE:
1. ACID SYSTEM MUST USE CHLORINATION SYSTEM BOOSTER PUMP AND VENTURI TO SUPPLY WATER TO THE FEEDER UNIT.
2. ACID SYSTEM MUST BE PROVIDED WITH DEDICATED BOOSTER PUMP AND VENTURI TO SUPPLY WATER TO THE FEEDER UNIT. REFER TO SYSTEMS SCHEMATICS.
3. REFER TO MANUFACTURER FOR DUAL ACID-PLUS CONFIGURATION FOR COMPETITION POOL.

3 AQ-700 **ACID SYSTEM**
1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER JEFFREY J. NOONEY No. 32290 ELECTRICAL STATE OF CALIFORNIA

REVISIONS

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KERN COMMUNITY COLLEGE DISTRICT
1801 Panorama Dr.
Bakersfield, CA 93305

Bakersfield College - Pool Equipment Building

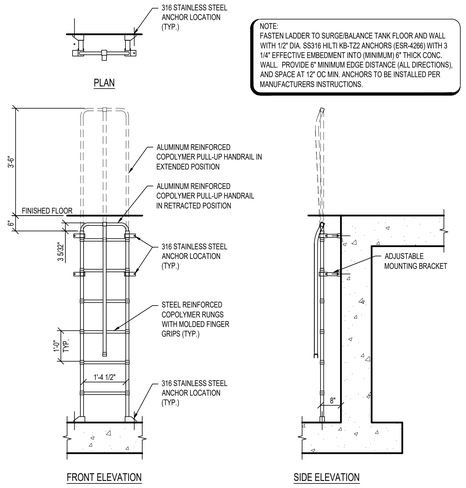
SHEET TITLE
POOL MECHANICAL DETAILS

DRAWN BY: PET JOB NUMBER: 23024.02

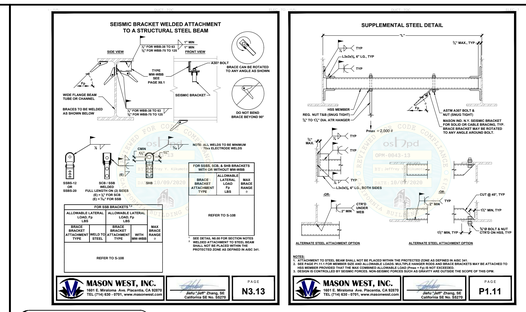
SHEET NO.
AQ-700

DATE: MARCH 7, 2025

CONSTRUCTION DOCUMENTS



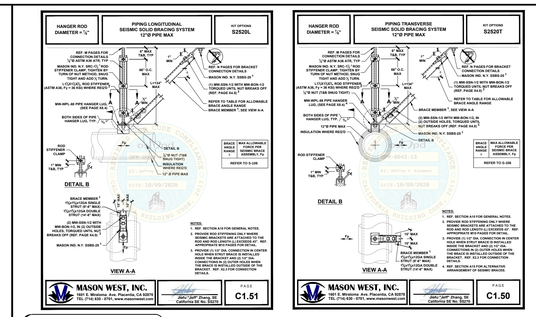
14 AQ-701 SURGE TANK LADDER
1/2" = 1'-0"



NOTE:
1. MAXIMUM ALLOWABLE LOADS MUST BE LIMITED TO VALUES INDICATED IN THE DETAILS ON SHEET S-108.
2. MAXIMUM ALLOWABLE BRACE ANGLE MUST BE LIMITED TO VALUE INDICATED IN THE DETAILS ON SHEET S-108
3. REFER TO 2/AQ-500 FOR THE TRANSVERSE AND LONGITUDINAL BRACE SPACING.

9 AQ-701 SEISMIC BRACING DETAIL
NTS

NOTE:
REFER TO DETAILS 4 & 7/S-108 FOR BAL OF INFO



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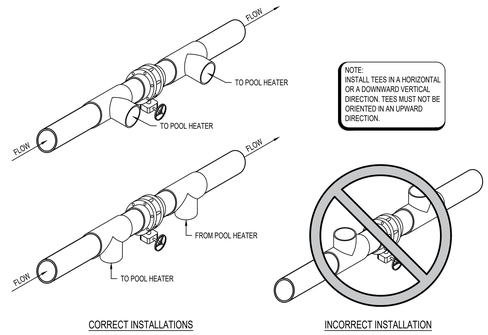
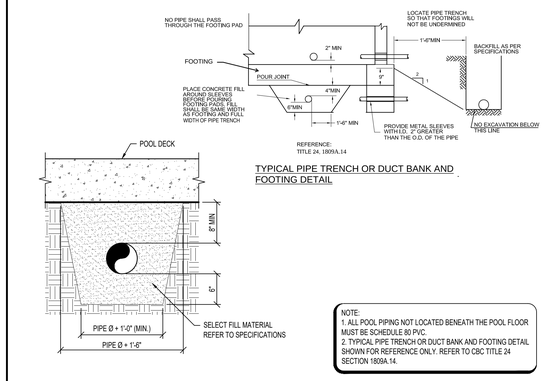
5 AQ-701 CLEVIS PIPE HANGER
NTS

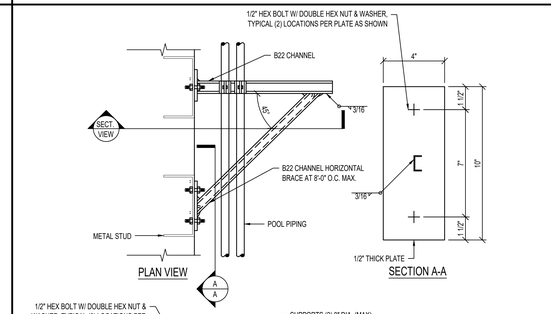


1 AQ-701 PIPING BYPASS
1/2" = 1'-0"



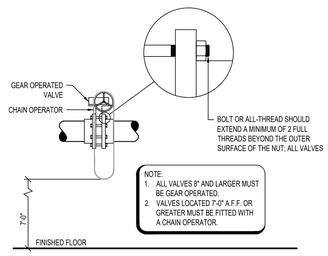
NOTE:
1. ALL POOL PIPING NOT LOCATED BENEATH THE POOL FLOOR MUST BE SCHEDULE 80 PVC.
2. TYPICAL PIPE TRENCH OR DUCT BANK AND FOOTING DETAIL SHOWN FOR REFERENCE ONLY. REFER TO CBC TITLE 24 SECTION 1809A.14.

11 AQ-701 BELOW GRADE PIPING
1" = 1'-0"

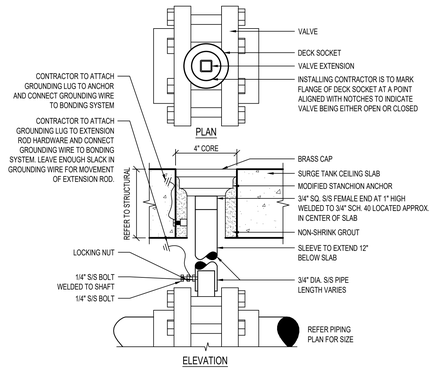


NOTE:
1. SHALL BE FIGURE B3064 BY B-LINE OR EQUAL.
2. BRACKET SHALL HAVE AN ELECTRO-PLATED FINISH.
3. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR MAX LOADING AND ATTACHMENT REQUIREMENTS.
4. MAX SPACING OF SUPPORT BRACKET = 4'-0" ON CENTER.
5. REFER TO PIPING DISTRIBUTION SYSTEM BRACING NOTE ON A500 FOR SEISMIC BRACING.

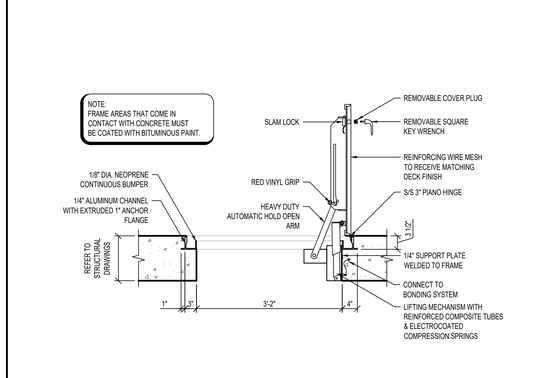
6 AQ-701 ADJUSTABLE STRUT BRACKET
3" = 1'-0"



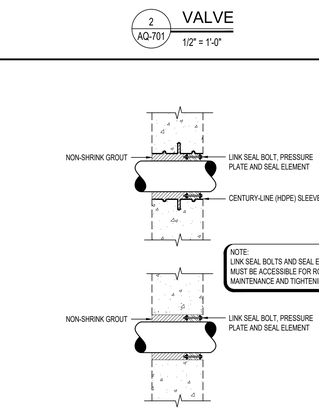
2 AQ-701 VALVE
1/2" = 1'-0"



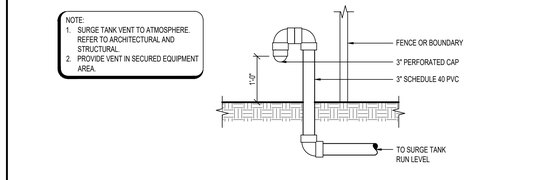
16 AQ-701 SUPPORT TEE
3/4" = 1'-0"



12 AQ-701 SURGE TANK ACCESS HATCH
3/4" = 1'-0"

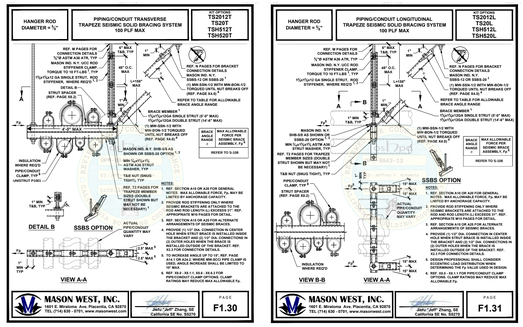


3 AQ-701 LINK SEAL
3/4" = 1'-0"



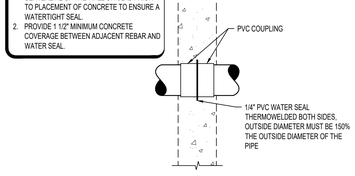
16 AQ-701 SUPPORT TEE
3/4" = 1'-0"

13 AQ-701 SURGE TANK VENT
3/4" = 1'-0"



NOTE:
1. REFER TO SHEET S-202 FOR STEEL SUPPORT LOCATIONS. MAX SPACING OF TRAPEZE SUPPORTS = 8' ON CENTER. TOTAL NUMBER OF PIPES ON TRAPEZE SHALL NOT EXCEED A LOADING OF 100 PLF. FOR REFERENCE:
12" DIA PIPE = 60 PLF
10" DIA PIPE = 45 PLF
6" - 8" DIA PIPE = 30 PLF
5" OR LESS DIA PIPE = 12 PLF
*ALL LISTED WEIGHTS INCLUDES THE WEIGHT OF WATER
2. MAXIMUM ALLOWABLE LOADS MUST BE LIMITED TO VALUES INDICATED IN THE DETAILS ON SHEET S-108.
3. MAXIMUM ALLOWABLE BRACE ANGLE MUST BE LIMITED TO VALUE INDICATED IN THE DETAILS ON SHEET S-108
4. REFER TO 2/AQ-500 FOR TRANSVERSE AND LONGITUDINAL BRACE SPACING.

8 AQ-701 TRAPEZE HANGER
3" = 1'-0"



4 AQ-701 WATER SEAL
1" = 1'-0"

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ISSUED: SEPTEMBER 9, 2025

AGENCY APPROVAL DSA# 03-124689

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Bakersfield College - Pool Equipment Building

SHEET TITLE

POOL MECHANICAL DETAILS

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

AQ-701

DATE: MARCH 7, 2025

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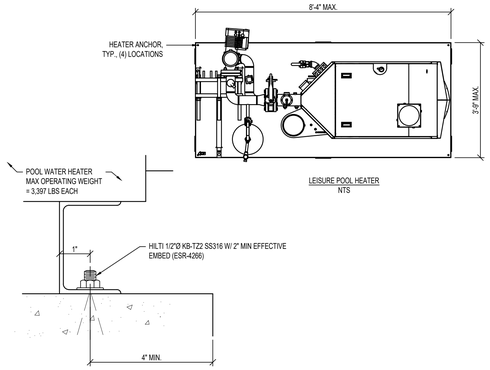
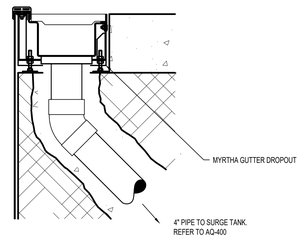


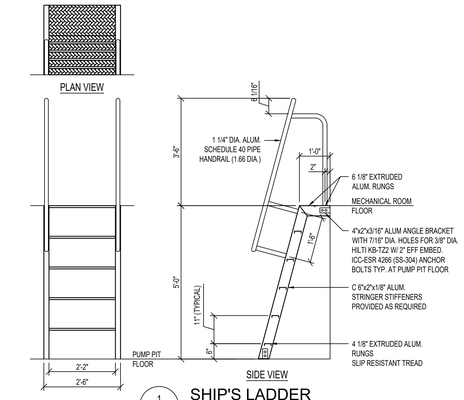
11 AQ-702 WARM-UP POOL HEATER ANCHOR

6" = 1'-0"



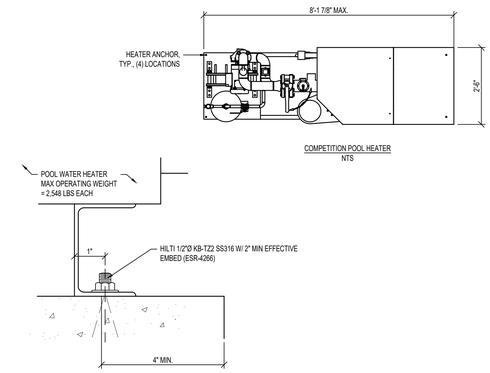
5 AQ-702 GUTTER DROPOUT BOX

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



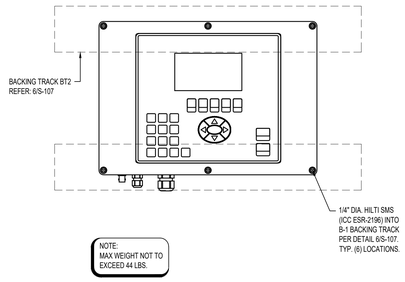
1 AQ-702 SHIP'S LADDER

1/2" = 1'-0"



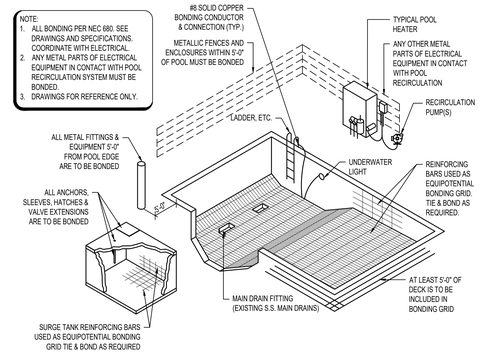
12 AQ-702 COMPETITION POOL HEATER ANCHOR

6" = 1'-0"



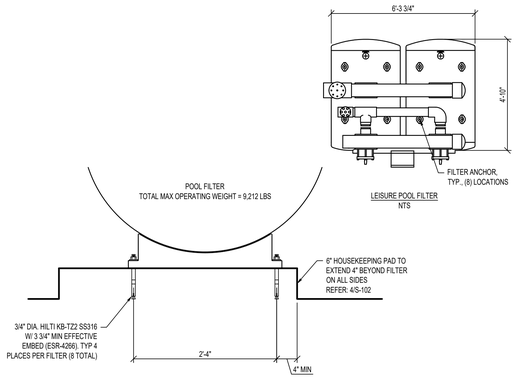
6 AQ-702 CHEMICAL CONTROLLER ANCHOR

3" = 1'-0"



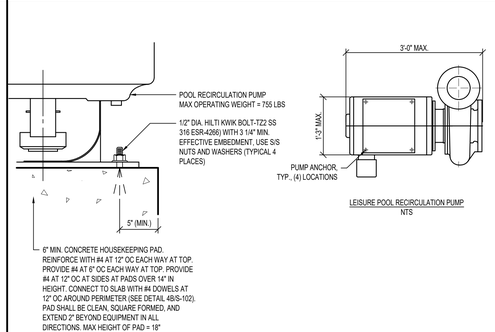
2 AQ-702 TYPICAL POOL BONDING DETAIL

NTS



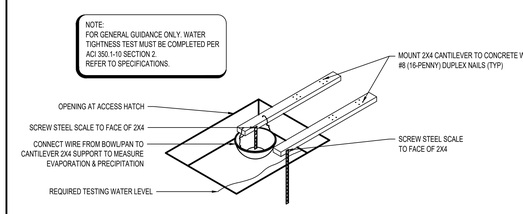
9 AQ-702 WARM -UP POOL FILTER ANCHOR

1" = 1'-0"



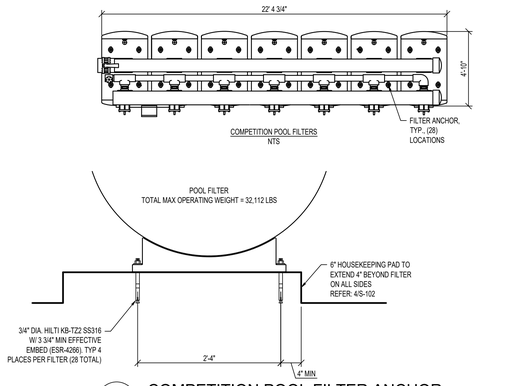
7 AQ-702 WARM-UP POOL PUMP ANCHOR

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



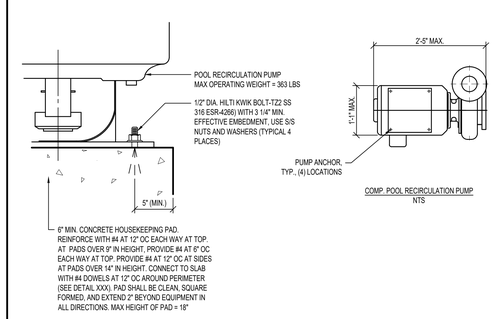
3 AQ-702 WATER TEST SET-UP (SURGE TANK)

NTS



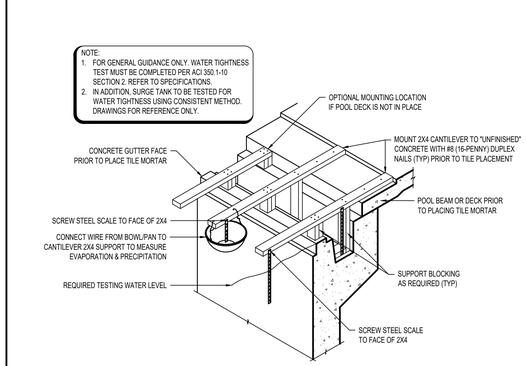
10 AQ-702 COMPETITION POOL FILTER ANCHOR

1" = 1'-0"



8 AQ-702 COMPETITION POOL PUMP ANCHOR

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



4 AQ-702 WATER TEST SET-UP (POOL GUTTER)

NTS

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SHEET TITLE

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DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.

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DATE: MARCH 7, 2025

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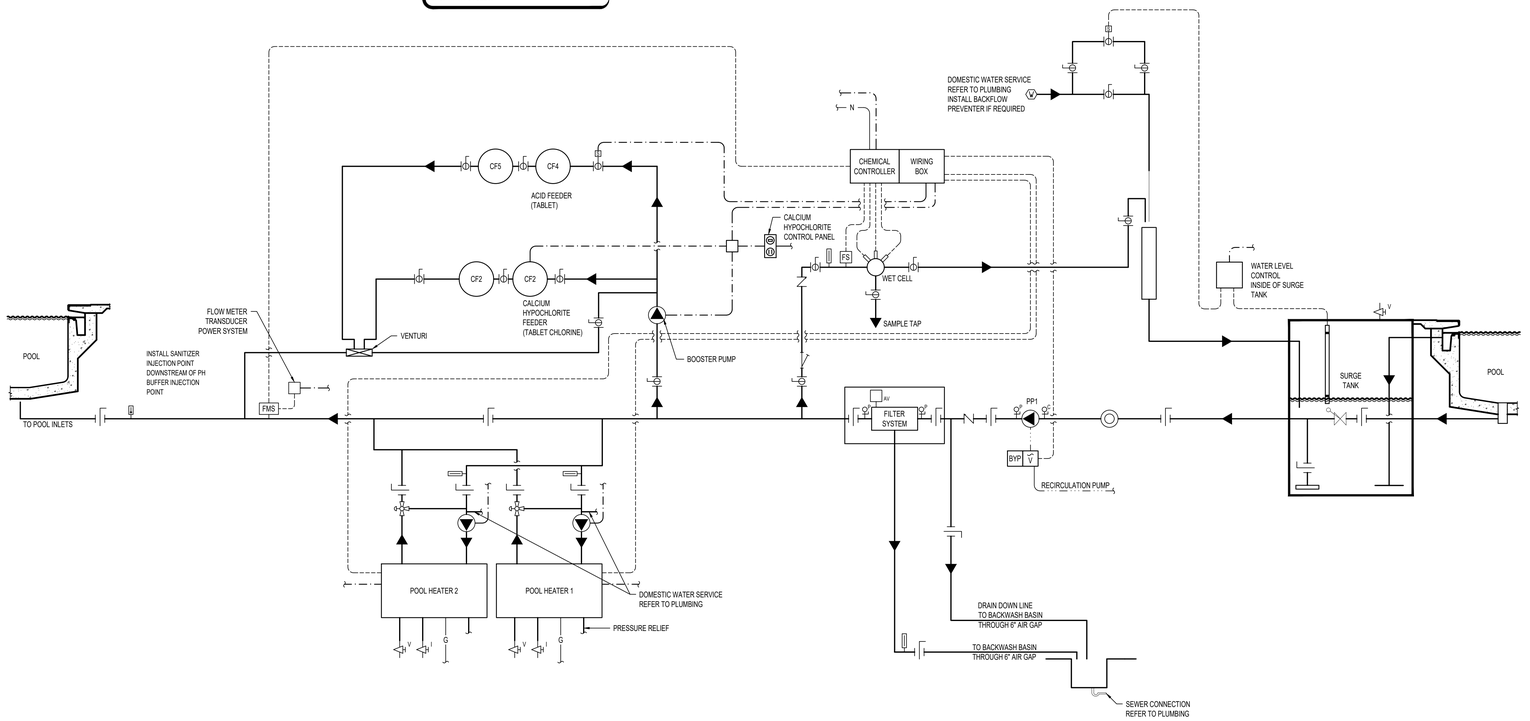

1 AQ-800 COMPETITION POOL SYSTEMS SCHEMATIC
NTS

NOTE:
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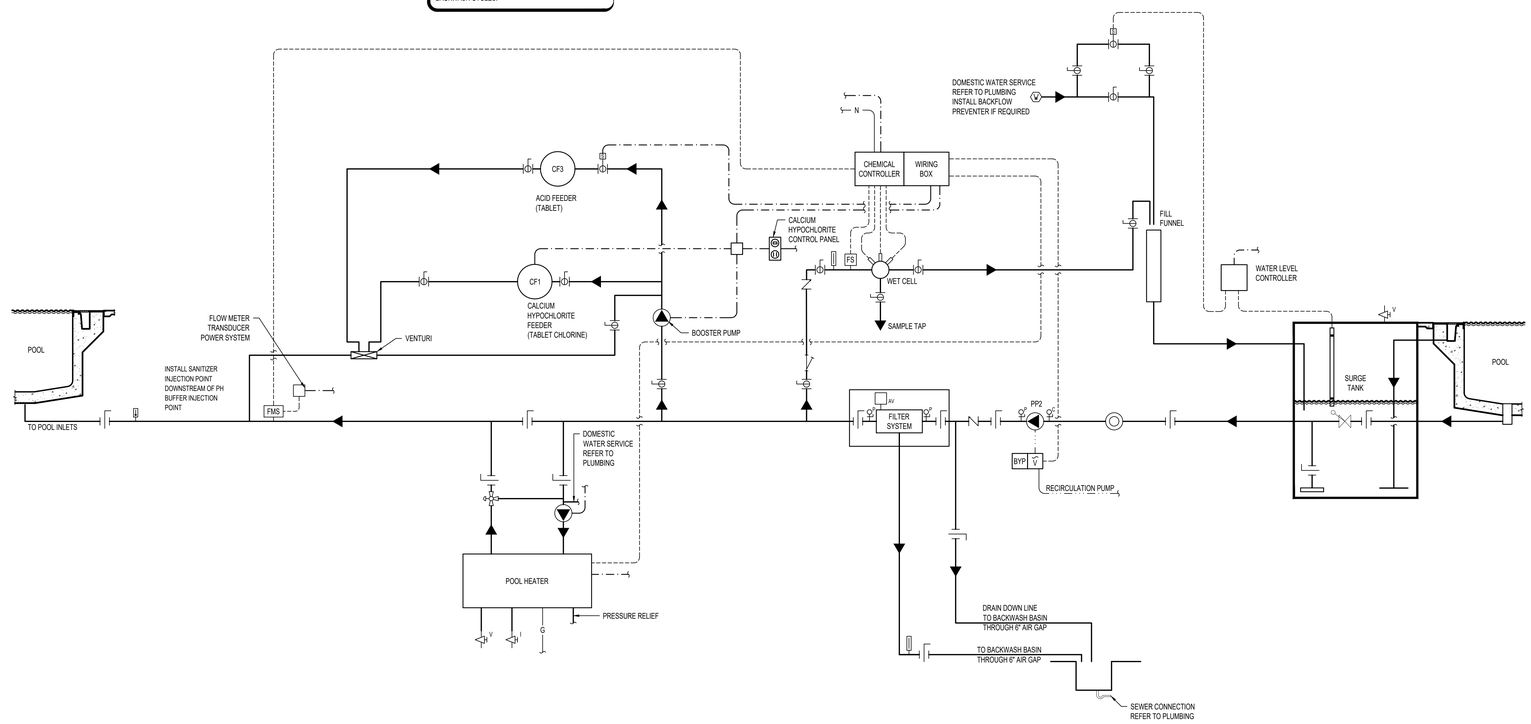

2 AQ-800 WARM-UP POOL SYSTEMS SCHEMATIC
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SHEET TITLE
POOL SYSTEM SCHEMATICS

DRAWN BY: PET JOB NUMBER: 23024.02

SHEET NO.
AQ-800

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