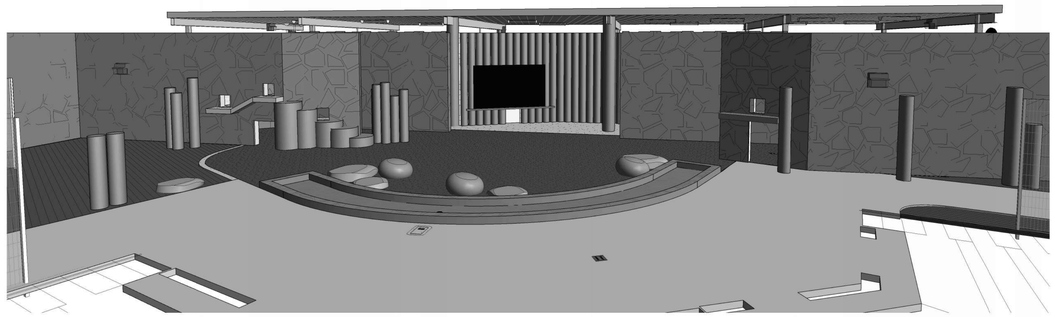


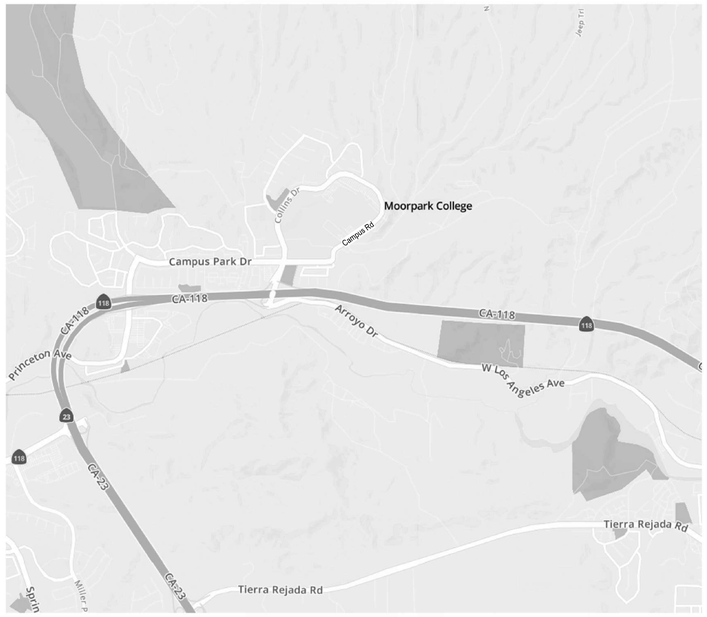


ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER

MOORPARK COLLEGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

VICINITY MAP



NORTH

PROJECT TEAM

OWNER
MOORPARK COMMUNITY COLLEGE
7075 CAMPUS RD.
MOORPARK, CA 93021
(805) 378-1400

CIVIL ENGINEER
ENCOMPASS CONSULTANT GROUP
333 N. LANTANA STREET, SUITE 287
CAMARILLO, CALIFORNIA 93010
(805) 322-4443

ARCHITECT
AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA RD. #203
AGOURA HILLS, CA 91301
(805) 530-3938

LANDSCAPE ARCHITECT
JORDAN, GILBERT & BAIN LANDSCAPE ARCHITECTS, INC.
459 N. VENTURA AVENUE,
VENTURA, CALIFORNIA 93001
(805) 642-3641

STRUCTURAL ENGINEER
ORION STRUCTURAL GROUP, INC.
223 EAST THOUSAND OAKS BLVD., #304
THOUSAND OAKS, CA 91360
(805) 390-9242

MECHANICAL/ PLUMBING ENGINEER
AE GROUP MECHANICAL ENGINEERS, INC.
838 EAST FRONT STREET
VENTURA, CA 93001
(805) 653-1722

ELECTRICAL ENGINEER
LUCCI & ASSOCIATES, INC.
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012
(805) 389-6520

SCOPE OF WORK

BLEACHER AND SHADE STRUCTURE ADDITION:

1. CONSTRUCT 3,000 S.F. ANIMAL SHELTER
2. CONSTRUCT A 471 SEAT, 2,730 S.F. BLEACHER WITH ROOF
3. CONSTRUCT PAVING AND LANDSCAPING OF THE ZOO PRESENTATION AREA
4. PROVIDE IRRIGATION TO LANDSCAPE AREAS
5. PROVIDE EMERGENCY SITE LIGHTING
6. PROVIDE FIRE ALARM

DEFERRED APPROVALS

NOTE: FABRICATION AND INSTALLATION OF ITEMS BELOW SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS OF THE ACTUAL SYSTEM TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. SUCH PLANS AND SPECIFICATIONS SHALL BE SIGNED BY THE ARCHITECT OF RECORD OR USE "STATEMENT FOR PLANS PREPARED BY OTHER DESIGN PROFESSIONALS".

DEFERRED ITEMS ARE:

1. BLEACHERS WITH ROOF

NOTE: IT IS THE ARCHITECT'S RESPONSIBILITY TO SUBMIT DEFERRED SUBMITTAL ITEMS TO DSA FOR APPROVAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TO THE ARCHITECT, ALL REQUIRED INFORMATION FOR THE DEFERRED PERMITS. CONTRACTOR SHALL ALLOW AN ADDITIONAL 60 DAYS IN ADDITION TO THE STANDARD SUBMITTAL PROCESS FOR DSA APPROVAL OF DEFERRED ITEMS.

REFERENCED DSA A#S

A03-111321 EATM BUILDING - RESTROOMS (CLOSED AND CERTIFIED)
A03-121105 TIGER ENCLOSURE - PARKING (CLOSED AND CERTIFIED)

DESIGN CRITERIA - (BLEACHER STRUCTURE)

DESIGN IS BASED ON 2022 CALIFORNIA BUILDING CODE (2022 CBC)

VERTICAL LIVE LOADS:
FLOOR LIVE LOAD: 100 PSF
ROOF LIVE LOAD: 20 PSF

SEISMIC FACTORS:
Ss = 1.99
S1 = 0.733
SITE CLASS: D (DEFAULT)
Fa = 1.0
SDS = 1.592
SEISMIC DESIGN CATEGORY: D
RISK CATEGORY: III

WIND FACTORS:
NOMINAL DESIGN WIND SPEED = 100 MPH
EXPOSURE CATEGORY = C
RISK CATEGORY = III

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS.

THESE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET (AMERICAN MODULAR SYSTEMS DRAWINGS: TS TO P3.0 BY AMERICAN MODULAR SYSTEMS (BASED ON PC 02-115700) 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 (A#04-113721):

1. DESIGN INTENT AND 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 THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" 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
- ☒ SHADE STRUCTURE DRAWINGS: A# 02-121471 PC
- ☒ SOUTHERN BLEACHER DEFERRED APPROVAL ITEM

☒ IS / ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND
☒ HAS / HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE OF THE ARCHITECT
LUCAS G. AMADOR, ARCHITECT
AMADOR WHITTLE ARCHITECTS, INC.

APRIL 14, 2025
DATE

C-37401
LICENSE NUMBER

DECEMBER 31, 2025
EXPIRATION DATE

SHEET INDEX

SHT NO.	TITLE
GENERAL	
G000	TITLE SHEET
G001	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
G002	ACCESSIBILITY DETAILS
G003	SITE EGRESS PLAN
G004	SITE PLAN - LOCAL FIRE AUTHORITY REVIEW
CIVIL	
C100	DEMOLITION PLAN
C101	GRADING PLAN
C102	DETAILS
LANDSCAPE	
L1.1	IRRIGATION PLAN
L1.2	IRRIGATION LEGEND
L1.3	LANDSCAPE DETAILS
L2.1	PLANTING PLAN
L2.2	PLANTING LEGEND
L3.1	PRELIMINARY SHADE PLAN
ARCHITECTURAL	
A101	CAMPUS SITE PLAN
A102	DEMOLITION SITE PLAN
A103	SITE PLAN
A104	ENLARGED SITE PLAN
A105	ENLARGED SITE DIMENSION PLAN
A111	ANIMAL SHELTER FLOOR PLAN
A112	ANIMAL SHELTER & BLEACHER REFLECTED CEILING PLAN
A113	ANIMAL SHELTER & BLEACHER ROOF PLANS
A201	ANIMAL SHELTER EXTERIOR ELEVATIONS
A202	SITE WALLS EXTERIOR ELEVATIONS
A301	ANIMAL SHELTER BUILDING SECTIONS
A302	WALL SECTIONS
A501	DETAILS
A502	DETAILS
A801	SIGNAGE PLAN & SCHEDULE
A802	SIGNAGE DETAILS
STRUCTURAL	
S000	GENERAL NOTES
S001	GENERAL NOTES
S010	TYPICAL DETAILS
S011	TYPICAL DETAILS
S012	TYPICAL DETAILS
S111	FOUNDATION PLAN
PLUMBING	
P101	PLUMBING NOTES & SCHEDULE
P201	PLUMBING DEMOLITION PLAN
P301	PLUMBING PLAN
ELECTRICAL	
E100	GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWNG LIST
E101	OUTDOOR TITLE 24 PAGE 1
E130	ELECTRICAL SITE DEMOLITION PLAN
E140	EXISTING CONDUITS
E141	SITE FA CABLING PLAN
E200	ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULES
E300	LIGHTING FIXTURE SCHEDULE
E300A	LIGHT FIXTURE CUT SHEETS PAGE 1
E300B	LIGHT FIXTURE CUT SHEETS PAGE 2
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E302	PHOTOMETRIC PLAN
E400	POWER PLAN
E410	ENLARGED CONTROL BOOTH PLAN
E500	NEW WORK - FIRE ALARM GNERAL NOTES AND DEVICES LEGEND
E501	FIRE ALARM PLAN
E511	CALCULATIONS
E512	EST 4 EMERGENCY COMMUNICATIONS PLATFORM CUT SHEETS
E513	INTELLIGENT HEAT DETECTORS CUT SHEETS
E514	OUTDOOR RATED HORNS AND HORN STROBES CUT SHEET
E515	OUTDOOR SPEAKERS & SPEAKE STROBES CUT SHEETS
E516	CEILING MOUNT SPEAKERS AND SPEAKER STROBES CUT SHEETS
E517	FIRE ALARM RISER DIAGRAM
E518	FIRE ALARM DETAILS
E600	ELECTRICAL DETAILS
E701	AUDIO PLAN
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BLEACHERS (DEFERRED APPROVAL)	
B1	COVER PAGE
B2	SECTION VIEW
B3	SECTION VIEW
B4	SIGHT LINES
B5	SEATING & FOOTING LAYOUT
SHADE STRUCTURE	
S1	GENERAL NOTES SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET OPTIONS TABLE & SITE SPECIFIC INFORMATION TABLE
S2	FOUNDATION PLAN ROOF FRAMING PLAN SECTION DETAILS
S3	TABLES & DETAILS

TOTAL SHEETS: 76

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT
LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

TITLE SHEET

PROJECT NO: 21-MPC-040
PROJECT ARCH:
DRAWN:
CHECKED:
SHEET NUMBER:

G000

DATE: 6/19/25
SHEET: ___ OF ___

GENERAL NOTES

1. INTERPRETATION OF CONSTRUCTION DOCUMENTS
   A. ALL INFORMATION DEPICTED IN THESE DRAWINGS AND RELATIVE TO EXISTING CONDITIONS IS BASED ON THE BEST AVAILABLE DATA AT THE TIME THESE CONSTRUCTION DOCUMENTS WERE BEING EXCECUTED, BUT WITHOUT GUARANTEE OF ACCURACY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND SHALL REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO COMMENCING ANY WORK.
   B. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED RESULTING FROM THE REMOVAL OR REPLACEMENT OF WORK INSTALLED WITHOUT PROPER COORDINATION TO ALL OTHER TRADES, AND/OR PRIOR TO OBTAINING CLARIFICATION FROM THE ARCHITECT WHERE CONFLICTING INFORMATION EXISTS ON THE DRAWINGS.
   C. THE CONTRACTOR SHALL FURNISH ALL BIDDERS WITH A COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO DRAWINGS, SPECIFICATIONS AND ADDENDUMS.
   D. THE CONTRACTOR IN CONJUNCTION WITH HIS SUBCONTRACTORS SHALL INCLUDE COMPLETE COORDINATION BETWEEN THE VARIOUS DISCIPLINES AS WELL AS ALL OTHER REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CODE AND PUBLIC UTILITY REQUIREMENTS. FURTHER, WHERE THERE ARE CONFLICTING SOLUTIONS IN THE CONSTRUCTION DOCUMENTS, ALL SUCH ITEMS WILL BE CONSIDERED TO INCLUDE THE MOST STRINGENT OF THE POSSIBLE SOLUTIONS DEPICTED IN THE CONSTRUCTION DOCUMENTS.
   E. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND DSA.
2. CONTRACTOR SHALL VISIT THE SITE TO INVESTIGATE AND VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS AT JOB SITE PRIOR TO START OF WORK.
3. ALL DIMENSIONS INDICATED ARE BELIEVED TO BE ACCURATE, BUT ARE NOT GUARANTEED TO BE SO. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. COORDINATE WITH EXISTING CONDITIONS WHERE INSUFFICIENT DETAIL DIMENSIONS ARE AVAILABLE. ALL DIMENSIONS ARE TO FINISHED FACE OF CONSTRUCTION OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. DIMENSIONS NOTED AT "CLR" (CLEAR) ARE NOT ADJUSTABLE WITHOUT ARCHITECT'S APPROVAL.
4. DIMENSIONS SHOWN SHALL HAVE PREFERENCE OVER SCALE. DO NOT SCALE DRAWINGS. DIMENSIONS ARE TAKEN FROM FACE OF EXISTING FINISH SURFACE OR FACE OF NEW STUD, UNLESS NOTED OTHERWISE.
5. **ALL ITEMS INCLUDING BUILDINGS SHOWN ARE NEW UNLESS NOTED EXISTING (E).**
6. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING PIPELINES AND UTILITIES THAT ARE TO REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY THAT THOSE PIPELINES AND UTILITIES TO BE REMOVED HAVE BEEN DISCONNECTED, SHUT DOWN OR ABANDONED PRIOR TO ATTEMPTING REMOVAL OR DEMOLITION IN A MANNER TO AVOID ANY DISRUPTION OF EXISTING FACILITIES.
7. CONTRACTOR SHALL PROTECT ALL SURFACES & FIXTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
8. ALL DAMAGE DONE TO EXISTING CONSTRUCTION AS A RESULT OF DEMOLITION OR INSTALLATION SHALL BE COMPLETELY REPAIRED BY CONTRACTOR AT OR NO COST TO OWNER. REPAIRED WORK SHALL MATCH EXISTING CONSTRUCTION.
9. CONTRACTOR SHALL REPAIR AND PATCH UP ALL DAMAGES TO EXISTING SURFACES CAUSED BY REMOVAL OF EXISTING EQUIPMENT ATTACHED TO EXISTING SURFACES. (CHALKBOARDS, BOOKSHELVES, TACKBOARDS, WALL HEATERS, PIPING, ETC.).
10. WHERE PATCHES ARE REQUIRED IN EXISTING, SURFACES ADJACENT MATERIAL SHALL BE MATCHED IN TEXTURE AND FINISH.
11. "DEMOLISH" AND "REMOVE" SHALL MEAN TO DEMOLISH, REMOVE FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER UNLESS NOTED OTHERWISE. TERMINATE PIPING BELOW SUBSTRATE FOR PATCHING. ELECTRICAL WIRE DISCONNECT SHALL BE AT THE SOURCE OF POWER.
12. **CONTRACTOR TO HAVE ALL SALVAGE RIGHTS TO ALL DEMOLISHED COMPONENTS AND EQUIPMENT. SALVAGE RIGHTS TO BE REFLECTED IN THE BID PROPOSAL TO THE DISTRICT BY WAY OF A BID REDUCTION. THE DISTRICT DOES NOT WANT ANY DEMOLISHED COMPONENTS OR EQUIPMENT BACK.**
13. CONTRACTOR SHALL THOROUGHLY CLEAN AND SECURE THE AREA OF CONSTRUCTION AFTER EACH DAY OF WORK. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS OFF SITE.
14. LOCATIONS OF STRUCTURES, UNDERGROUND PIPELINES AND UTILITIES WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PIPELINES AND UTILITIES BEFORE COMMENCING DEMOLITION, EARTHWORK OR CONSTRUCTION WORK.
15. GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. ALL QUESTIONS SHALL BE SENT TO ARCHITECT.
16. ALL SALVAGEABLE MATERIALS AND EQUIPMENT TO BE REMOVED SHALL REMAIN THE SOLE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL CONSULT WITH THE OWNER CONCERNING STORAGE AND/OR DISPOSAL OF SUCH EQUIPMENT. OWNER HAS FULL SALVAGE RIGHTS. ALL REMOVED MATERIALS OTHER THAN ITEMS TO BE SALVAGED, OR REUSED SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE.
17. ALL WORK, INCLUDING REMOVAL OF EXISTING WORK, SHALL BE PERFORMED IN A MANNER THAT MINIMIZES THE AMOUNT OF NOISE, DUST, TRAFFIC AND/OR OTHER FORMS OF DISTURBANCES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES SO THAT THE PUBLIC, STUDENTS AND STAFF, AS WELL AS OTHER OCCUPIED AREAS OF THE SCHOOL ARE SUBJECTED TO AS LITTLE DISRUPTION AS REASONABLY POSSIBLE.
18. ROUTES OF INGRESS AND EGRESS FOR MATERIALS AND WORKMEN, AND LIMITS OF THE PROJECT AREA MAY BE DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL CONFINE HIS ACTIVITES WITHIN SUCH LIMITS. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ADEQUATE SAFETY AND DUST BARRIERS IN THE SITE, ACROSS CORRIDORS AND ELSEWHERE AS REQUIRED.
19. SHUT DOWN OF EXISTING AND OPERATING PLUMBING, MECHANICAL AND ELECTRICAL SYSTEMS OR PORTIONS THEREOF SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
20. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THE ARCHITECTURAL DRAWINGS WITH THE SPECIFICATIONS AND THE WORK SHOWN ON THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITIING BEFORE PROCEEDING WITH ANY RELATED WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIRE RATING CONTINUITY OF STRUCTURE, WALLS, FLOOR AND CEILINGS INTERRUPTED BY THE WORK OF ALL TRADES. THIS INCLUDES, BUT IS NOT LIMITED TO, FIRE RATED ENCLOSURES AT THE CEILING AND WALLS OF CORRIDORS AND STORAGE ROOMS, AND DUCT SHAFTS.
22. PROVIDE ALL NECESSARY BLOCKING, BACKING AND FRAMING FOR LIGHT FIXTURES, ELECTRICAL UNITS, A/C EQUIPMENT, TOILET FIXTURES & ACCESSORIES, RAILINGS, GRAB BARS, AND ALL OTHERS REQUIRING SAME.
23. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.
24. WHERE NEW WALLS ALIGNS WITH EXISTING WALL, PROVIDE SMOOTH INVISIBLE TRANSITION BETWEEN NEW AND EXISTING.
25. NEW GYPSUM BOARD FINISH SHALL BE 5/8" TYPE 'X' OR AS REQUIRED FOR UL FIRE-RATING AS INDICATED ON DRAWINGS.
26. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY EIGHT (8) FEET HIGH CHAIN LINK FENCE BARRICADES AT WORK AREAS, DISTRICT APPROVED STORAGE AREAS AND WHEREVER NECESSARY TO MAINTAIN A SAFE PASSAGE AND SAFE ENVIRONMENT.
27. BEFORE PROCEEDING WITH THE CORING OR CUTTING OF WALLS AND FLOORS, ETC., THE CONTRACTOR SHALL PREPARE LAYOUT OF CUTTING OR CORING AND SHALL HAVE THE APPROVAL BY THE STRUCTURAL ENGINEER AND THE D.S.A. FIELD DISTRICT ENGINEER IN ORDER TO PROCEED WITH THE CUTTING OR CORING.
28. SAW-CUT EXISTING A.C. PAVING AND/OR CONCRETE FLOOR SLAB AS REQUIRED FOR NEW PIPE INSTALLATION AND NEW DEPRESSED CONCRETE SLAB, AND REPAIR TO MATCH EXISTING.
29. STRENGTH OF CONCRETE:
   A. SLABS ON EARTH, SIDEWALKS AND CURBS: 3,000 PSI AT 28 DAYS
   B. FOUNTATIONS: 3,000 PSI AT 28 DAYS
   C. FILL ON METAL DECK (LIGHTWEIGHT): 3,000 PSI AT 28 DAYS
30. THE CONTRACTOR SHALL NOT COMMENCE THE WORK, IN PART OR IN FULL, PRIOR TO OBTAINING THE NOTICE-TO-PROCEED (NTP) FROM VCCD.
31. IN CASE OF CONFLICT, THE MORE EXPENSIVE CONSTRUCTION MEANS AND METHOD SHALL BE USED.
32. NOT USED.
33. NO DEFERRED SUBMITTAL ITEMS.

HAZARDOUS MATERIALS NOTES

1. THIS PROJECT INCLUDES THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS INCLUDING, BUT NOT LIMITED TO, ASBESTOS AND LEAD BASED PAINT. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF HAZARDOUS MATERIALS IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. A LISTING OF KNOWN HAZARDOUS MATERIALS AS WELL AS A WORK PLAN FOR ITS REMOVAL, PREPARED BY THE OWNER'S SEPARATE CONSULTANT, IS INCLUDED IN THE PROJECT MANUAL.
2. FIREPROOFING: CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL FIREPROOFING REMOVED FROM THE PROJECT AS A HAZARDOUS MATERIAL WITH NEW FIREPROOFING TO ACHIEVE THE REQUIRED HOURLY RATINGS INDICATED IN REMODELED BUILDING CODE ANALYSIS ON SHEET G002.

DSA NOTES

1. ALL WORK SHALL COMPLY WITH THE 2022 EDITION, TITLE 24 CALIFORNIA CODE OF REGULATIONS.
2. A 'DSA CERTIFIED' PROJECT INSPECTOR WITH CLASS 2 CERTIFICATION EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
3. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
4. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
5. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-388, PART 1, TITLE 24.
6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24 , CCR).
7. TESTING:
   A. 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 THE NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
   B. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
   C. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
   D. A LISTING OF CERTIFIED ATT'S CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
   E. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/ INSTALLATION OF THE SPECIFIED SYSTEM CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
   F. PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
   G. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER 'S AGENT.
8. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF CBC AND CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION."

GENERAL REQUIREMENTS

1. THIS PROJECT SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA CODE OF REGULATIONS TITLE 24 WHICH INCLUDES THE 2022 CALIFORNIA BUILDING CODE, THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND THE 2022 CALIFORNIA FIRE CODE BASED ON THE 2018 INTERNATIONAL FIRE CODE, AND ADOPTS THE 2022 IBC, 2022 UMC, 2022 UPC, AND THE 2017 NEC.
2. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
   A. THESE GENERAL NOTES UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS, INTERNATIONAL BUILDING CODE, APPLICABLE EDITION.
   B. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES, LAWS, REGULATIONS AND PROTECTIVE COVENANTS GOVERNING THE SITE OF WORK.
   C. STANDARD SPECIFICATIONS OF ASTM.
   D. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
   E. "OR EQUAL": THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT 'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED.
3. ON SITE VERIFICATION:

   OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS. NOTED DIMENSIONS TAKE PRECEDENT OVER SCALE. EACH CONTRACTOR OR SUB-CONTRACTOR SHALL REPORT TO PROJECT SUPERINTENDENT ALL CONDITIONS WHICH PREVENT THE PROPER EXECUTION OF THEIR WORK.
4. CLIENT'S ARCHITECT AND PROJECT SUPERINTENDENT:

   TO BE NOTIFIED IMMEDIATELY BY CONTRACTOR OR SUB-CONTRACTOR SHOULD ANY DISCREPANCY OR OTHER QUESTION ARISE PERTAINING TO THE WORKING DRAWINGS AND/OR SPECIFICATIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT OF BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.
5. SUB-CONTRACTOR:

   SHALL INSURE THAT ALL WORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTORS' PERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUB-CONTRACTOR WORKMANSHIP WILL BE OF QUALITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS OR ARCHITECT. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMANSHIP AT ANY TIME, AND ANY CORRECTIONS NEEDED TO ENHANCE THE QUALITY OF BUILDING WILL BE DONE IMMEDIATELY. EACH SUB-CONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HIS SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LEFT BY OTHER SUB-CONTRACTORS. CONTRACTOR WILL DETERMINE HOW SOON AFTER SUB-CONTRACTOR COMPLETED EACH PHASE OF HIS WORK THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE.

GREEN BUILDING NOTES

1. ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CGBSC 5.408.1
2. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN FOR APPROVAL BY THE ENFORCEMENT AGENCY THAT: 1. IDENTIFIES THE MATERIALS TO BE DIVERTED FORM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE. 2. DETERMINES IF MATERIALS WILL BE SORTED ON-SITE OR MIXED. 3. IDENTIFIES DIVERSION FACILITIES WHERE MATERIAL COLLECTED WILL BE TAKEN. 4. SPECIFIES THAT THE AMOUNT OF MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH. CGBSC 5.408.2
3. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 5.408.2, ITEMS 1 THRU 4. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY. CGBSC 5.408.2.1
4. RECYCLE AND OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CALCULATE THE AMOUNT OF MATERIALS DIVERTED BY WEIGHT OR VOLUME,BUT NOT BY BOTH. EXCEPTIONS: 1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS 2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST. CGBSC 5.408.4
5. 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.
6. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
7. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
8. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER 'S AGENT.
9. 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.
10. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
11. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

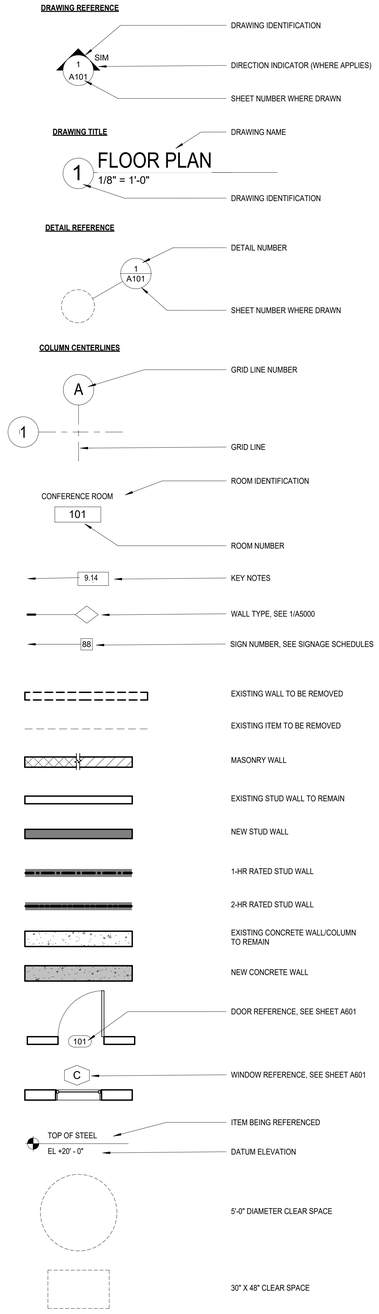
ABBREVIATIONS

&	AND
(E)	EXISTING
@	AT
A.B.	ANCHOR BOLT
A.C.	ASPHALTIC CONCRETE
A.F.F.	ABOVE FINISH FLOOR
A/C	AIR CONDITIONER
ACOUST	ACOUSTICAL
AL.	ALUMINUM
ALUM	ALUMINUM
ANOD	ANODIZED
ARCH	ARCHITECTURAL
BLDG	BUILDING
BLK	BLOCK OR BLOCKING
BOT	BOTTOM
C.I.	CAST IRON
C.J.	CEILING JOIST
C.L.	CHAIN LINK
C.L.F.	CHAIN LINK FENCE
C.M.U.	CONCRETE MASONRY UNIT
CAB	CABINET
CLG	CEILING
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
d	PENNY
D.F	DOUGLAS FIR
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DIA.	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E.J.	EXPANSION JOINT
EA	EACH
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G	FINISH GRADE
F.R.	FIRE RATED, FIRE RESISTANT
FIN	FINISH
FLHT	FULL HEIGHT
FLR	FLOOR
FR.	FRAME
FT	FOOT OR FEET
FTG	FOOTING
G.F.F.	GLASS FIBER FACED
G.I.	GALVANIZED IRON
G.W.B.	GYPSUM WALLBOARD
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GYP	GYPSUM
H.M.	HOLLOW METAL
HDR	HEADER
HI	HIGH

ABBREVIATIONS

HT	HEIGHT
IN	INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
KD	KNOCK DOWN
LBS	POUNDS
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N.I.C.	NOT IN CONTRACT AND NOT PART OF THIS APPLICATION
N.T.S.	NOT TO SCALE
N/A	NOT AVAILABLE
NO., #	NUMBER
O.C.	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
PT	POINT
PWD	PLYWOOD
R	RISER
R.C.P.	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
REF	REFERENCE
REFL	REFLECTED
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION
RM	ROOM
S.C.	SOLID CORE
S.F.	SQUARE FEET
S.S.	STAINLESS STEEL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SQ	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND, SUSPENDED
T & G	TONGUE AND GROOVE
T.	TEMPERED
T.O.C.	TOP OF CURB
T.O.P.	TOP OF PLATE
T.O.P.	TOP OF PARAPET
T.O.W.	TOP OF WALL
TEL	TELEPHONE
THK	THICK
TYP	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
W.H.	WATER HEATER
W.R.	WATER RESISTANCE
W.W.M.	WELDED WIRE MESH
W/	WITH
WD	WOOD
WDW	WINDOW

LEGEND



CODE ANALYSIS

ANIMAL SHELTER - U OCCUPANCY, TYPE V-U-NS CONSTRUCTION, 3,000 S.F.
(BASIC ALLOWABLE TABLE 506.2 - 5,500 S.F.)
MAXIMUM HEIGHT: 1-STORY (TABLE 504.4)

BLEACHERS - 15 OCCUPANCY, TYPE V-A5-NS CONSTRUCTION, 471 OCCUPANTS AND 2,730 S.F.
(BASIC ALLOWABLE TABLE 506.2 - UL S.F.)

ALL STRUCTURES ARE SEPARATED BY MINIMUM 20 FEET

BLEACHERS TO BE DEFERRED APPROVAL

APPLICABLE CODES

LIST OF 2022 CALIFORNIA CODE OF REGULATIONS (C.C.R.): APPLICABLE CODES AS OF JANUARY 1, 2023

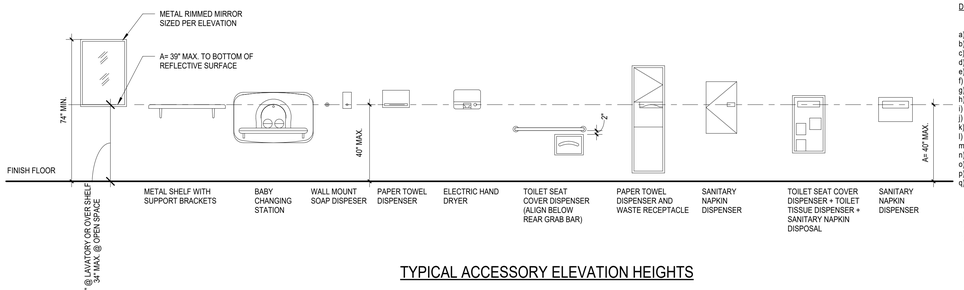
PART 1 -	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2 -	2022 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
PART 3 -	2022 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
PART 4 -	2022 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5 -	2022 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 6 -	2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 7 -	CURRENTLY VACANT
PART 8 -	2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
PART 9 -	2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10 -	2022 CALIFORNIA EXISTING BUILDING CODE (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 11 -	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.
PART 12 -	2022 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2022 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAP. 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2022 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2022 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR F.A. & SIGNAL SYSTEMS	2003 EDITION
UL 1971	SIGNALING DEVICES FOR THE HEARING IMPARED	2002 EDITION
ICC 300	ICC STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS	2017 EDITION

DEPARTMENT OF JUSTICE REGULATIONS FOR TITLE II OF THE AMERICANS WITH DISABILITIES ACT OF 1990 WITH REVISED REG



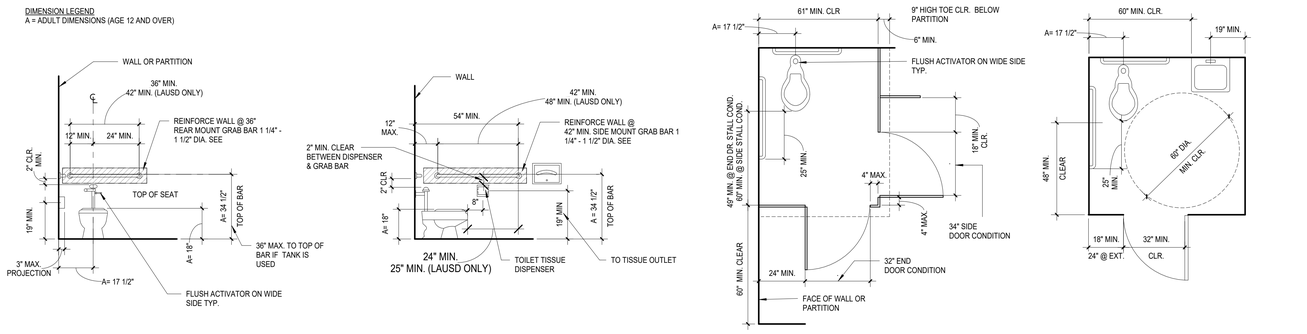
DIMENSIONS IN INCHES

a) TOILET CENTERLINE FROM WALL	17 1/2"
b) TOILET SEAT HEIGHT TO TOP OF SEAT	15"
c) GRAB BAR HEIGHT (TO TOP SURFACE)	34 1/2"
d) TOILET PAPER DISPENSER HEIGHT TO OPNG	19" MIN.
e) TOILET PAPER IN FRONT OF TOILET	8" TO CENTER LINE OF UNIT
f) NAPKIN DISPOSAL HEIGHT TO OPNG	19" MIN. SEE NOTE #1 BELOW
g) DISPENSER HEIGHT	40" MAX.
h) MIRROR HEIGHT (OVER A LAVATORY)	39"
i) MIRROR HEIGHT (ISOLATED MIRROR)	34"
j) LAVATORY/SINK TOP HEIGHT	34" MAX.
k) LAVATORY APRON CLEARANCE	29" MIN.
l) LAVATORY/SINK KNEE CLEARANCE	27" MIN.
m) URINAL LIP HEIGHT	16"
n) URINAL TOILET FLUSH HANDLE HEIGHT	43"
o) DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
p) DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
q) RAMP/STAIR HANDRAIL HEIGHT	32"

NOTES:
1. T LOCATION SHALL COMPLY WITH CBC 11B-604.7.2
2. FOR BACKING, SEE 8/S020

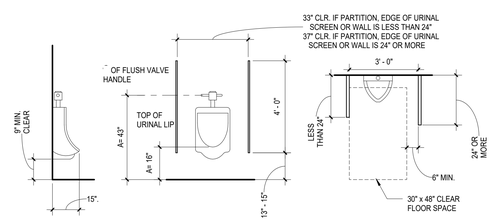
TYPICAL ACCESSORY ELEVATION HEIGHTS

RESTROOM ACCESSORY MOUNTING HEIGHTS | 3/8" = 1'-0" | 1



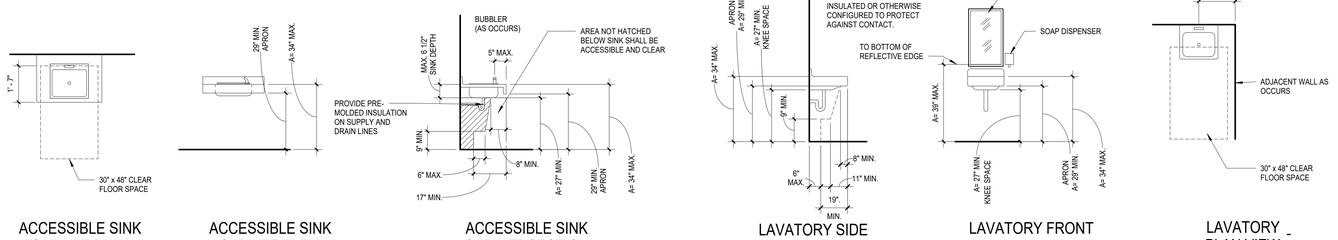
FRONT ELEVATION | SIDE ELEVATION | TOILET STALL PLAN | SINGLE ACCOMODATION TOILET PLAN

TOILET DIMENSIONS | 3/8" = 1'-0" | 2



SIDE ELEVATION | FRONT ELEVATION | PLAN

URINAL DIMENSIONS | 3/8" = 1'-0" | 3



ACCESSIBLE SINK CABINET PLAN | ACCESSIBLE SINK CABINET ELEV. | ACCESSIBLE SINK CABINET SECTION | LAVATORY SIDE ELEVATION | LAVATORY FRONT ELEVATION | LAVATORY PLAN VIEW

LAVATORY DIMENSIONS | 3/8" = 1'-0" | 4

ACCESSIBILITY NOTES

1. SYMBOL OF ACCESSIBILITY
   - A. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USEABLE BY PHYSICALLY DISABLED PERSON AS SET FORTH IN THESE BUILDING STANDARDS AND AS SPECIFICALLY REQUIRED IN THIS SECTION. NOTE: SEE FIGURE 17-6 BELOW.
   - B. COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B. EXCEPTION: THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE SPECIAL SIGNS AND IDENTIFICATION NECESSARY TO COMPLEMENT DECOR OR UNIQUE DESIGN WHEN IT IS DETERMINED THAT SUCH SIGNS AND IDENTIFICATION PROVIDES ADEQUATE DIRECTION TO HANDICAPPED PERSONS.
   - C. CONTRAST OF SYMBOL: CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.



PROPORTIONS

NOTE: POST SIGNAGE AT SIDELIGHT WINDOW TO ALL ENTRANCES RFHSSD 5 x 5 DECAL - POSTED

INTERNATIONAL SYMBOL OF ACCESSIBILITY

FIGURE 17-6

2. ENTRANCES
   - A. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
   - B. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44-INCHES ABOVE THE FLOOR. PANIC HDWR TO BE MOUNTED ABOVE 36" TO 44"
   - C. THE FLOOR LANDING ON EACH SIDE OF AND ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60-INCHES AND THE LENGTH OPPOSITE THE SWING OF 48-INCHES AS MEASURE AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
   - D. THE FLOOR OR LANDING SHALL BE NO MORE THAN 1/2" LOWER THAN THE THRESHOLD OR THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
   - E. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS FOR EXTERIOR DOOR AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OF FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7N).
3. ACCESSIBLE ENTRANCES
   - A. ACCESSIBLE ENTRANCES TO THE BUILDING SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS REFERENCED HEREIN. SIGNS AT ENTRIES SHALL BE LOCATED SUCH THAT THEY ARE VISIBLE FROM THE MAIN APPROACH TO THE ENTRY.
4. SIGNS
   - A. ALL SIGNS (AT MAIN ENTRANCES, TOILETS, PERMANENT ROOMS, ASSISTIVE LISTENING SYSTEMS(S) ETC. SHALL COMPLY WITH TITLE 24 AND SECTION 11B-216 AND 11B-703.
5. PATH OF TRAVEL
   - A. GATES IN PATH OF TRAVEL MUST COMPLY WITH EXIT DOOR REQUIREMENTS. (CBC 11B-206.5, 11B-404 AND ADA STANDARDS FOR ACCESSIBLE DESIGN, DEPARTMENT OF JUSTICE, SECTION 404). GATE HARDWARE SHALL NOT REQUIRE PINCHING, GRASPING, OR TWISTING MOTION TO OPERATE. PROVIDE SOLID KICK PLATES 10" MINIMUM HIGH. CLEAR SPACE BELOW GATE SHALL BE 3" MAXIMUM ABOVE PAVING ON BOTH SIDES OF THE GATE. THE MAXIMUM EFFORT TO OPERATE THE GATES SHALL NOT EXCEED 5 LBS.
   - B. HANDRAILS FOR STAIRS AND RAMPS SHALL BE PER APPROVED PLANS AND MOUNTED 1 1/2" MINIMUM FROM SIDE WALLS. CBC 11B-505. ALL WELDED JOINTS AND SURFACES SHALL BE GROUND SMOOTH, NO SHARP OR ABRASIVE CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAIL SHALL BE SMOOTH. CBC 11B.505.6 TO 11B.505.8.

ACCESSIBLE PLUMBING FIXTURES

NOTES

1. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA AS INDICATED AND 36" MAXIMUM ABOVE FINISH FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUNDS.
2. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
3. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUNDS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
4. A GRAB BAR OR ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
5. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
6. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.
7. THE DRINKING FOUNTAIN SHALL BE ACTIVATED BY A CONTROL WHICH IS EASILY OPERATED BY A DISABLED PERSON SUCH AS A HAND OPERATED LEVER TYPE CONTROL LOCATED WITHIN 6-INCHES OF THE FRONT OF THE DRINKING FOUNTAIN. THE SPOUT SHALL BE LOCATED 15-INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5-INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS AND SHALL BE 36-INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE WATER STREAM FROM THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MIN. AND BE SUBSTANTIALLY PARALLEL TO THE FRONT OF THE DRINKING FOUNTAIN.
8. ROUGH-IN FOR FIXTURES, EQUIPMENT, AND APPLIANCES SHALL BE AS INDICATED ON DRAWINGS AND AS SPECIFIED, INCLUDING THOSE ITEMS INDICATED AS FURNISHED BY OTHERS, FURNISHED BY OWNER, OR FUTURE CAPACITY. WHEN CONNECTIONS TO EQUIPMENT FROM CAPPED OR PLUGGED LINES ARE REQUIRED, CAPS OR PLUGS SHALL BE REMOVED AT TIME EQUIPMENT IS SET AND STOPS OR VALVES INSTALLED AND CONNECTIONS PROVIDED AS SPECIFIED.
9. UNLESS OTHERWISE INDICATED, FIXTURES SHALL BE INSTALLED WITH 5/16" BRASS BOLTS OR SCREWS OF SUFFICIENT LENGTH TO SECURE FIXTURE TO BACKING, WALL OR CLOSET RINGS.
10. FIXTURES INSTALLED AGAINST CONCRETE OR MASONRY WALLS SHALL HAVE THEIR HANGERS FASTENED WITH THE 5/16" BOLTS, PHILIP SHIELD TYPE ANCHORS, OR 2 UNIT CINCH ANCHORS. WOOD OR PLASTIC PLUGS ARE NOT PERMITTED.
11. BACKING FOR HANGING OF PLUMBING FIXTURE AND EQUIPMENT SHALL BE INSTALLED IN SUPPORTING WALL AT TIMES ROUGH PIPING IS INSTALLED.
12. FOR WOOD STUDS USE STEEL PLATE 1/4" THICK, NOT LESS THAN 4 TO 6 INCHES WIDE STEEL PLATE SHALL BE ATTACHED TO STUD AT EACH END OF PLATE TO EACH STUD IT CRESSES. PLATE SHALL HAVE 2 PRE- DRILLED 1/8" HOLES FOR NO. 14 FLAT HEAD SCREWS 2 INCHES IN LEGNTH FROM EACH STUD.
13. FOR METAL STUDS USE STEEL PLATE 1/4" THICK, NOT LESS THAN 4 INCHES WIDE STEEL PLATE SHALL BE ATTACHED TO STUD AT EACH END OF PLATE TO EACH STUD IT CRESSES. PLATE SHALL BE ATTACHED TO METAL STUDS BY BOLTING WITH TWO 1/4" "U BOLTS" PER STUD WITH BOLTS THROUGH PLATE AND AROUND STUD FLANGE OR BY WELDING WITH 1/8" FILLET WELD FULL WIDTH OF STUD FLANGE, TOP AND BOTTOM OF PLATE. SEE 1/A5.06.
14. PIPING SHALL BE STUBBED OUT TO EXACT LOCATION OF FIXTURES AND STUBS SHALL BE INSTALLED SYMMETRICALLY WITH FIXTURES. HOT AND COLD WATER SUPPLIES FOR CENTER SET FAUCETS ON LAVATORIES SHALL BE INSTALLED ON 8 INCH CENTERS, UNLESS OTHER WISE SPECIFIED OR REQUIRED.

ACCESSORIES INFORMATION

1. THE GRAB BAR SHALL NOT PROJECT MORE THAN 3" INTO THE 48" MINIMUM CLEAR SPACE IN FRONT OF THE WATER CLOSET. GRAB BAR AND CONNECTIONS SHALL HAVE STRENGTH TO ALLOW 250 LB HORIZONTAL OR VERTICAL POINT FORCE.
2. TOILET PAPER AND FEMININE NAPKIN DISPOSALS SHALL BE LOCATED AT THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL. THE ACCESSORY SHALL NOT BE LOCATED CLOSER THAN 1 1/2" CLEAR OF THE TANGENT POINT OF THE GRAB BAR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADÖR

amador whittle architects, inc.
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

STAMPS/SEALS



SHEET TITLE:

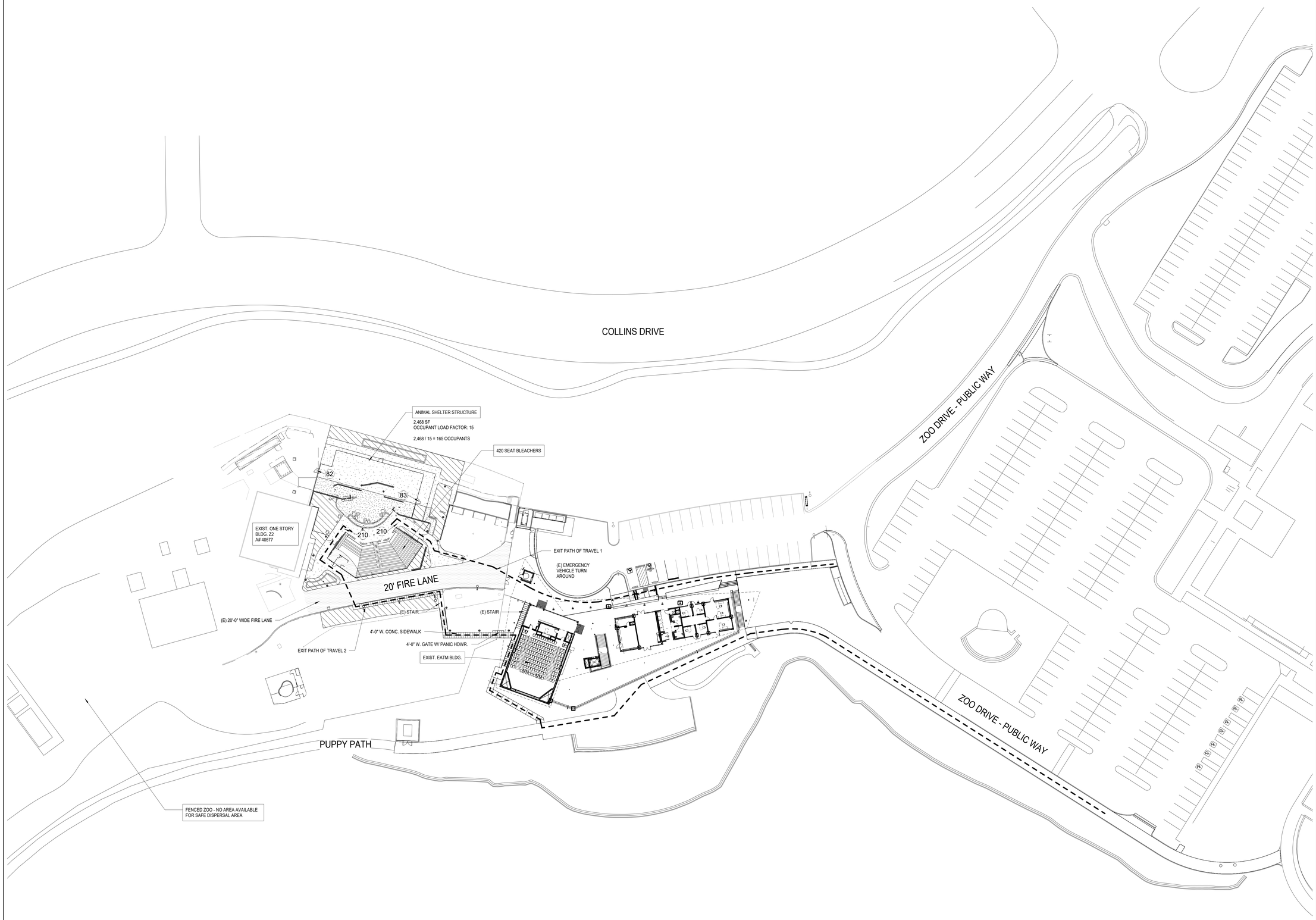
ACCESSIBILITY DETAILS

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: GW	CHECKED:

SHEET NUMBER:

G002

DATE: 6/19/25	SHEET: ___ OF ___



SITE EGRESS LEGEND

EXIT PATH OF TRAVEL

0' 15' 20' 30' 50'

NORTH

SITE EGRESS PLAN | 1/32" = 1'-0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT
LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

SITE EGRESS PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

SHEET NUMBER:

G003

DATE: 6/19/25 | SHEET: ___ OF ___

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:	VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
Project Name/School:	ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
Project Address:	7075 CAMPUS ROAD, MOORPARK, CA 93021

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: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☑

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: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

VENTURA COUNTY FIRE DEPARTMENT

Fire Prevention Bureau
165 Durley Avenue, Camarillo, CA 93010-8586
Office: (805) 389-9738 Fax: (805) 388-4356

FIRE PREVENTION FORM 625
FIRE-FLOW VERIFICATION

SECTION I – PROJECT INFORMATION
(To Be Completed by Applicant)

Project Name: M.C. ANCT Visitor Bleacher and Storage APN: 500-0-281-495
Project Address: 7075 Campus Rd. City: Moorpark

SECTION II – INFORMATION ON FIRE-FLOW AVAILABILITY
(To Be Completed by Water Purveyor)

System Information:
Water Purveyor: Ventura County Waterworks District #1
Size & Location of Main: 8" E of Parcel Distance to Parcel: 251'
Size of Reservoir Serving Test Hydrants: 2.5MG College Reservoir

Hydrant Information:
Location of Residual Hydrant: 120' NE of Teaching Zoo (646) Distance to Parcel: * 500'
Location of Flow Hydrant: Next to Teaching Zoo (H2103) Distance to Parcel: * 370'
Type: Wet Size: 6" # of Outlets: 1 4" 1 2 ½"
* Distance to parcel shall be measured along the vehicular access

Test Result Information:
Method Used to Obtain Results: Hydraulic Model ☐ Flow Test ☑
Date of Test: 10/17/24 Time of Test: 9:40 ☑ AM ☐ PM
Static PSI: 80 Residual PSI: 65 Orifice: 2.5 Pitot: 45
Observed GPM: 1055 Calculated GPM @ 20 psi: 2230 Capacity Duration: 2 hrs

I have witnessed and/or reviewed this water flow information and by personal knowledge and/or on-site observation certify that the above information is correct.
Name: Frank Zablocki
Signature: Frank Zablocki Date: 10/21/2024
Title: Engineer II Company: VC Water and Sanitation
Phone: (805) 378-3021

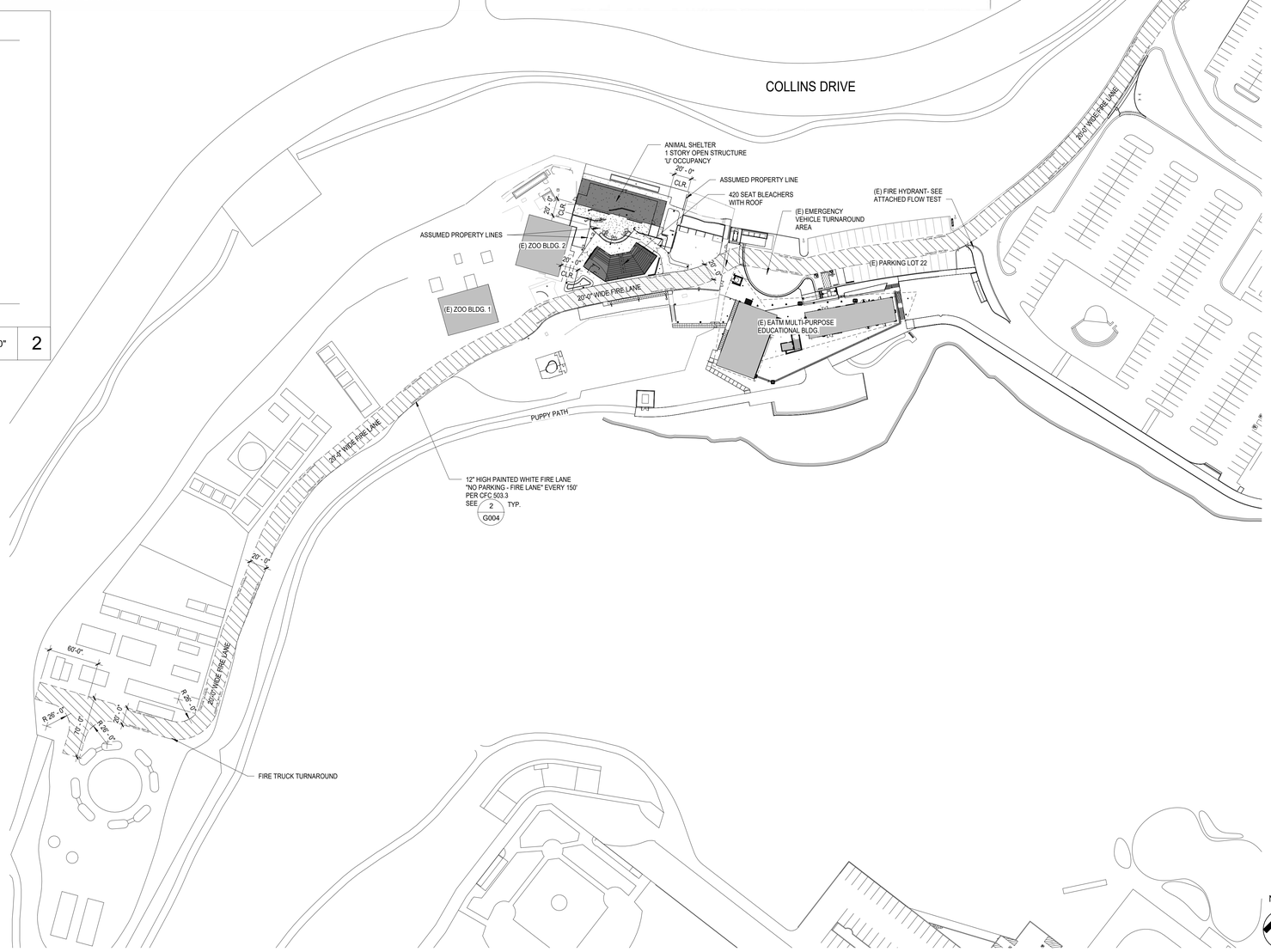
☐ Private on-site water system proposed. Separate plan submittal required.
☐ Water purveyor approves use of private water system. (Purveyor signature required above).

Fire District Record Number: _____

January 1, 2023 **Fire-flow Verification** 625-1



PAINTED FIRE LANE SIGNAGE | 1/4" = 1'-0" | 2



SITE PLAN - LOCAL FIRE AUTHORITY REVIEW | 1" = 60'-0" | 1

FIRE DEPARTMENT NOTES

1. PORTABLE FIRE EXTINGUISHER(S) SHALL BE PROVIDED.
2. MINIMUM 2A:10B:C FIRE EXTINGUISHERS SHALL BE PROVIDED. TRAVEL DISTANCE TO ANY EXTINGUISHER SHALL NOT EXCEED 75 FEET FROM ANY PORTION OF THE BUILDING. EXTINGUISHER(S) SHALL BE HUNG NO HIGHER THAN 44 INCHES MEASURED FROM THE FLOOR TO THE TOP OF THE EXTINGUISHER. SHALL NOT CONTAIN CFC'S OR HALON.
3. CFC 503.1; TITLE 19 DIVISION 1 § 3.05 - MAINTAIN FIRE ACCESS ROUTE(S). PUBLIC STREET ACCESS - PROVIDE SIGN(S) 'NO' PARKING FIRE LANE WITH CALIFORNIA VEHICLE CODE 22500.1' AND DETAIL.
4. CFC 506.1 MAINTAIN / PROVIDE KEY BOXES FOR FIRE DEPARTMENT ACCESS, AS APPROPRIATE.
5. CFC 901.4; 907.8.1 INSTALLATION FIRE PROTECTION SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH ORIGINAL INSTALLATION STANDARDS FOR THAT SYSTEM. REQUIRED SYSTEM SHALL BE EXTENDED, ALTERED OR AUGMENTED AS NECESSARY TO MAINTAIN AND CONTINUE PROTECTION WHENEVER THE BUILDING IS ALTERED, REMODELED OR ADDED TO.
6. TITLE 19 DIVISION 1 § 1.14 - EVERY FIRE ALARM SYSTEM OR DEVICE, SPRINKLER SYSTEM, FIRE EXTINGUISHER, FIRE HOSE, FIRE-RESISTIVE ASSEMBLY OR ANY OTHER FIRE SAFETY ASSEMBLY, DEVICE MATERIAL OR EQUIPMENT INSTALLED AND RETAINED IN SERVICE IN ANY BUILDING OR STRUCTURE SUBJECT TO CALIFORNIA CODE OF REGULATIONS, TITLE 19 DIVISION 1 REGULATIONS SHALL BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 19 DIVISION 1 REGULATIONS AND WITH THEIR INTENDED USE.
7. TITLE 19 DIVISION 1 § 3.24 UPON DISRUPTION OR DIMINISHMENT OF THE FIRE PROTECTIVE QUALITIES OF SUCH EQUIPMENT, MATERIAL OR SYSTEMS IMMEDIATE ACTION SHALL BE INSTITUTED TO EFFECT A REESTABLISHMENT OF SUCH EQUIPMENT MATERIAL OR SYSTEMS TO THEIR ORIGINAL NORMAL OPERATIONAL CONDITION.
8. CFC 901.5.1 IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE REQUIRED FIRE DETECTION, ALARM AND SUPPRESSION SYSTEMS HAS BEEN TESTED AND APPROVED.
9. FIRE ALARM SCOPE REQUIRES DSA APPROVED DRAWINGS FOR REFERENCE OF AREAS IN SCOPE TO INCLUDE COMPLIANT FIRE ALARM COMPONENTS (SMOKE-HEAT-AUDIBLE-VISUAL-MANUAL) . (STATEMENT OF COMPLIANCE PER CFC 901.2.1; 901.6.2.1 & INCORPORATE APPLICABLE SECTIONS PER: 2022 CALIFORNIA REGULATIONS
10. CBC 3301.1 - THE PROVISIONS OF THIS CHAPTER SHALL GOVERN SAFETY DURING CONSTRUCTION AND THE PROTECTION OF ADJACENT PUBLIC PROPERTIES.
11. CBC 3302.3 - FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THIS CODE AND THE APPLICABLE PROVISIONS OF CHAPTER 33 OF CALIFORNIA FIRE CODE.
12. CBC 3309.1 - STRUCTURES UNDER CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NO FEWER THAN ONE APPROVED PORTABLE FIRE EXTINGUISHER IN ACCORDANCE WITH SECTION 906 AND SIZED FOR NOT LESS THAN ORDINARY HAZARD AS FOLLOWS: 1. ONE AT EVERY STORAGE AND CONSTRUCTION SHED. 2. ADDITIONAL PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED WHERE SPECIAL HAZARDS EXIST, SUCH AS THE STORAGE AND USE FLAMMABLE AND COMBUSTIBLE LIQUIDS.
13. INCORPORATE TESTING NOTE: COMPLETION OF CONSTRUCTION SHALL INCLUDE RE-ACCEPTANCE TESTING PROVISION FROM NFPA 72 CHAPTER 14 IN ACCORDANCE WITH CFC 907.7; SMOKE DETECTORS SENSITIVITY AS REQUIRED BY CFC 907.8.3; 907.8.4 & SECTION 14.4.4.3'
14. CFC 1031.1 - THE MEANS OF EGRESS FOR BUILDING OR PORTIONS THEREOF SHALL BE MAINTAINED IN ACCORDANCE WITH THIS SECTION.
15. CFC 1031.2 - REQUIRED ACCESSES, EXITS AND EXIT DISCHARGES SHALL BE CONTINUOUSLY MAINTAIN FREE FROM OBSTRUCTION OR IMPEDIMENTS TO FULL INSTANT USE IN THE CASE OF FIRE OR OTHER EMERGENCY WHERE THE BUILDING AREA SERVED BY THE MEANS OF EGRESS IS OCCUPIED. AN EXIT OR EXIT PASSAGEWAY SHALL NOT BE USED FOR ANY PURPOSE THAT INTERFERES WITH MEANS OF EGRESS.
16. CFC 1031.2.1 - SECURITY DEVICES AFFECTING MEANS OF EGRESS SHALL BE SUBJECT TO APPROVAL OF THE FIRE CODE OFFICIAL.
17. CFC 1031.3 - A MEANS OF EGRESS SHALL BE FREE FROM OBSTRUCTIONS THAT WOULD PREVENT ITS USE, INCLUDING THE ACCUMULATION OF SNOW AND ICE.
18. CFC 1031.4 - EXIT SIGNS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 1013. DECORATIONS, FURNISHING, EQUIPMENT OR ADJACENT SIGNAGE THAT IMPAIRS THE VISIBILITY OF EXISTING SIGNS, CREATES CONFUSION OR PREVENTS IDENTIFICATION OF THE EXIT SHALL NOT BE ALLOWED.
19. EMERGENCY VEHICLE ACCESS ROADWAY SHALL BE IDENTIFIED BY RED CURB MARKING AND ROADWAY SURFACE MARKING. RED CURB MARKING: CURB TOP AND SIDE SHALL BE PAINTED RED, AND THE WORDS, "FIRE LANE" IN WHITE, SHALL BE STENCILED ON THE TOP AND SIDE OF ALL RED CURBS AT A MAXIMUM INTERVAL OF 50 FEET. SUCH MARKINGS SHALL BE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT.

LEGEND

- BLDG — EXISTING BUILDINGS - NOT PART OF SCOPE OF WORK
- BLDG — AREA OF WORK - NEW BLEACHERS AND ANIMAL SHELTER
- 20'-0" WIDE EMERGENCY VEHICLE ACCESS ROADWAY PAINT CONTINUOUS 6" RED STRIPE ON BOTH SIDES OF LANE WITH "NO PARKING - FIRE LANE" EVERY 150' PER CFC 505.3
- (E)FH — (E) FIRE HYDRANT
- ASSUMED PROPERTY LINE

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DATE: 06/19/2025

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PROJECT TITLE AND SCHOOL LOCATION

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CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT
LUCAS A. AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

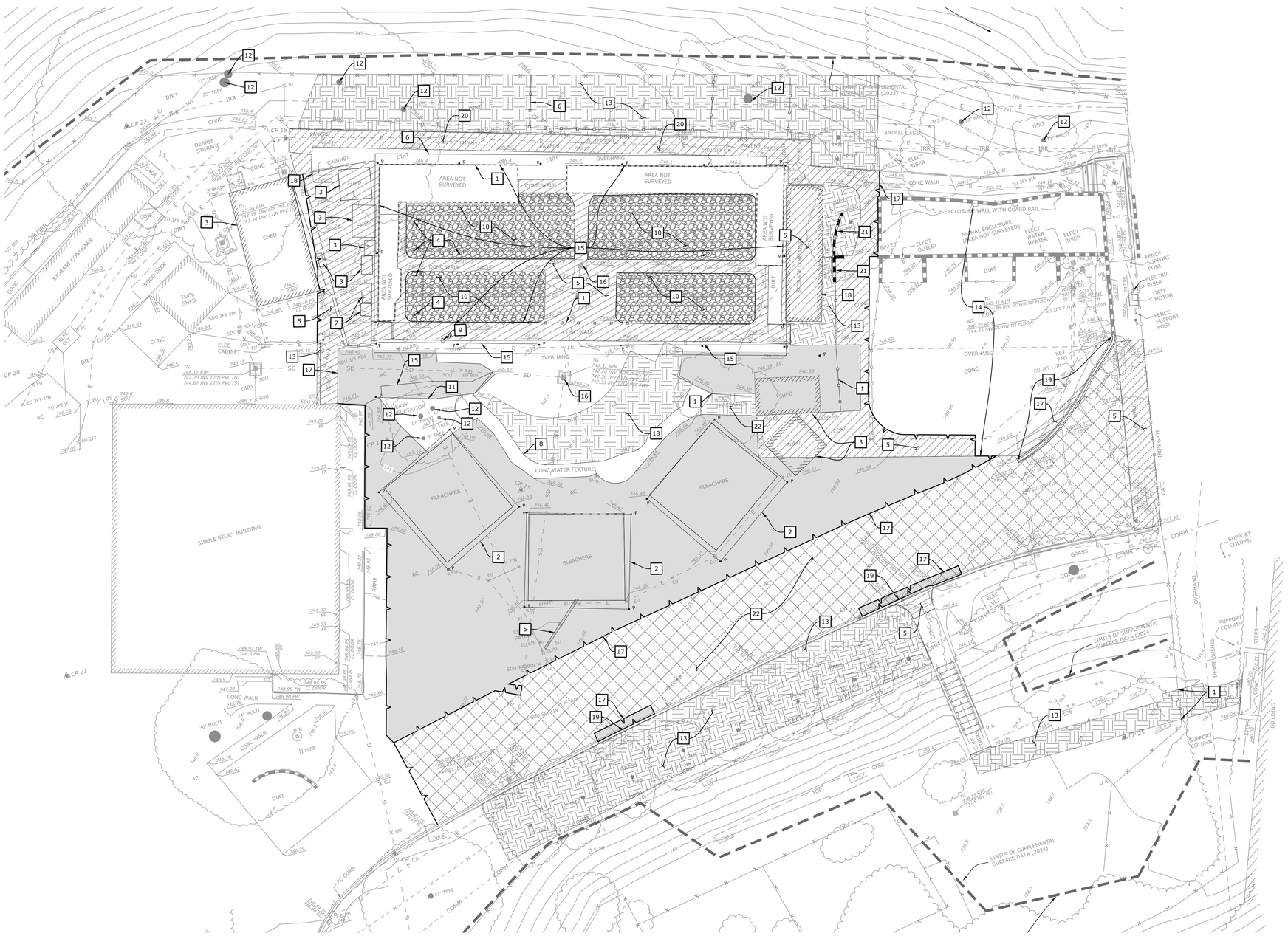
SITE PLAN - LOCAL FIRE AUTHORITY REVIEW

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: GW	CHECKED:

SHEET NUMBER:

G004

DATE: 6/19/25 SHEET: ___ OF ___



DEMOLITION NOTES

1. REMOVE EXISTING FENCE.
2. REMOVE EXISTING TENT STRUCTURE & BLEACHERS.
3. REMOVE EXISTING SHED.
4. REMOVE EXISTING WOOD POST.
5. REMOVE EXISTING CONCRETE PAVEMENT.
6. REMOVE EXISTING PEN.
7. REMOVE AND SALVAGE EXISTING FRIDGE.
8. REMOVE EXISTING WATER FEATURE.
9. REMOVE HOSE BIB.
10. REMOVE EXISTING GRAVEL.
11. REMOVE EXISTING CONCRETE RAMP AND HANDRAIL.
12. PROTECT EXISTING TREE IN PLACE.
13. REMOVE EXISTING LANDSCAPE.
14. PROTECT EXISTING AREA.
15. REMOVE STRUCTURE ROOF, WALLS, POST, ETC.
16. REMOVE EXISTING STORM DRAIN CATCH BASIN.
17. SAWCUT AND REMOVE EXISTING PAVEMENT TO LIMITS SHOWN.
18. REMOVE EXISTING STORAGE CONTAINER.
19. REMOVE CURB TO LIMITS SHOWN.
20. REMOVE EXISTING PAVERS.
21. REMOVE EXISTING WALL.
22. 2" ASPHALT GRIND.

GENERAL NOTES (DEMOLITION PLAN)

1. DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES AND ALL OTHER OBJECTIONABLE MATERIAL FROM THE PROJECT SITE.
2. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE REMOVAL OF MATERIAL FROM THE SITE AND ALL OBJECTIONABLE MATERIALS COVERED BY THESE PLANS. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL CONTINUOUSLY COORDINATE WITH THE DISTRICT'S REPRESENTATIVE TO SALVAGE, RELOCATE, AND/OR PROTECT ANY EXISTING ITEMS OR MATERIALS AS DIRECTED.
3. PRIOR TO COMMENCING DEMOLITION OPERATIONS, THE CONTRACTOR SHALL COORDINATE SEQUENCING OF WORK IN ADVANCE WITH THE DISTRICT'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND REMOVE DEMOLISHED MATERIALS FROM THE SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY ITEMS DAMAGED DURING THE DEMOLITION PROCESS THAT ARE INTENDED TO REMAIN AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS IN THEIR ENTIRETY PRIOR TO PROJECT DEMOLITION. PLAN DISCREPANCIES OR DEFICIENCIES SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
7. ALL EXISTING UTILITIES TO BE PROTECTED IN PLACE UNLESS OTHERWISE SHOWN. CONTRACTOR TO COORDINATE WITH ALL NECESSARY UTILITY COMPANIES.
8. REFER TO LANDSCAPE DRAWINGS FOR ANY REQUIRED PLANTING & IRRIGATION DEMOLITION AND TREE REMOVAL. ALL AREAS TO RECEIVE LANDSCAPING TO BE CLEARED, GRUBBED, AND REMOVE EXISTING IRRIGATION AS NECESSARY.
9. CONCRETE SIDEWALKS WILL BE REMOVED TO THE NEAREST CONSTRUCTION OR EXPANSION JOINT TO THE LIMITS OF REMOVAL AS SHOWN ON THE PLANS. CONTRACTOR TO PROVIDE SAWCUT LOCATION PLAN FOR APPROVAL BY DISTRICT'S REPRESENTATIVE.
10. ADJUST EXISTING UTILITY LIDS, GRATES, COVERS TO FINISHED GRADE.
11. DEMOLITION SHALL BE CONDUCTED TO LIMITS SHOWN & AS REQUIRED FOR NEW WORK.
12. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT AND SUPPORT THE UTILITIES OR SUBSTRUCTURES FOUND AT THE SITE WHETHER OR NOT SHOWN ON THE PLANS OR EXPOSED BY CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK (72-HOURS NOTICE REQUIRED). PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 8-1-1. CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTIES FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL EXISTING SURFACE AND SUBSURFACE FACILITIES DISTURBED BY CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TREES, LANDSCAPING, IRRIGATION, TRAILS, ASPHALT CONCRETE ROAD PAVING, CURB AND GUTTER, CROSS GUTTER, SIDEWALK, AND UTILITIES. POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ADVISE DISTRICT'S REPRESENTATIVE OF CONFLICTS. CONTACT PURVEYORS OF UTILITY SYSTEMS SUCH AS ELECTRIC, TELEPHONE, CABLE TV, GAS OR OTHERS TO RELOCATE FACILITIES TO ALLOW FOR THE CONSTRUCTION SHOWN ON THESE PLANS. EXCEPT AS OTHERWISE SHOWN THE DEPTHS OF UTILITIES ARE NOT KNOWN.
13. UNLESS OTHERWISE NOTED ON DRAWINGS, ALL EXISTING WIRING, CONDUITS, JUNCTION BOXES AND OTHER ELECTRICAL DEVICES IN AREAS WHERE NEW WORK OCCURS SHALL BE REMOVED, EXCEPT WHEN SUCH DEVICES ARE REQUIRED TO MAINTAIN SERVICES TO OTHER AREAS, OR OTHERWISE NOTED. IN SUCH CASES, CONTRACTOR SHALL RELOCATE THESE DEVICES PER INSTRUCTIONS BY DISTRICT'S REPRESENTATIVE.

EXISTING UTILITIES NOTE

EXACT SIZE, DEPTH AND LOCATION OF EXISTING UTILITIES ARE UNKNOWN. CONTRACTOR TO FIELD VERIFY SIZE, DEPTH AND LOCATION OF ALL UTILITIES IN AND AROUND THE CONSTRUCTION AREA AND NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

N

W E

S

SCALE: 1"=10'

0 10 20 30

DEMOLITION LEGEND

- EXISTING CONCRETE OR PAVERS TO BE REMOVED
- SAWCUT
- EXISTING AC PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING LANDSCAPE TO BE REMOVED.
- 2" GRIND

N:\PROJECTS\0075\09 ZOO PRESENTATION ARENA\ENGINEERING\ACAD\IMPROVEMENTS\0075.09 DEMO

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
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CONSULTANT

ECG Encompass Consultant Group
333 N. LANTANA ST, SUITE 287, CAMARILLO, CA 93010
PHONE: 805.322.4443 WEBSITE: WWW.ECGCIVIL.COM

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
GLEN H. PACE
NO 61468
CIVIL
STATE OF CALIFORNIA

Project Status

SHEET TITLE:

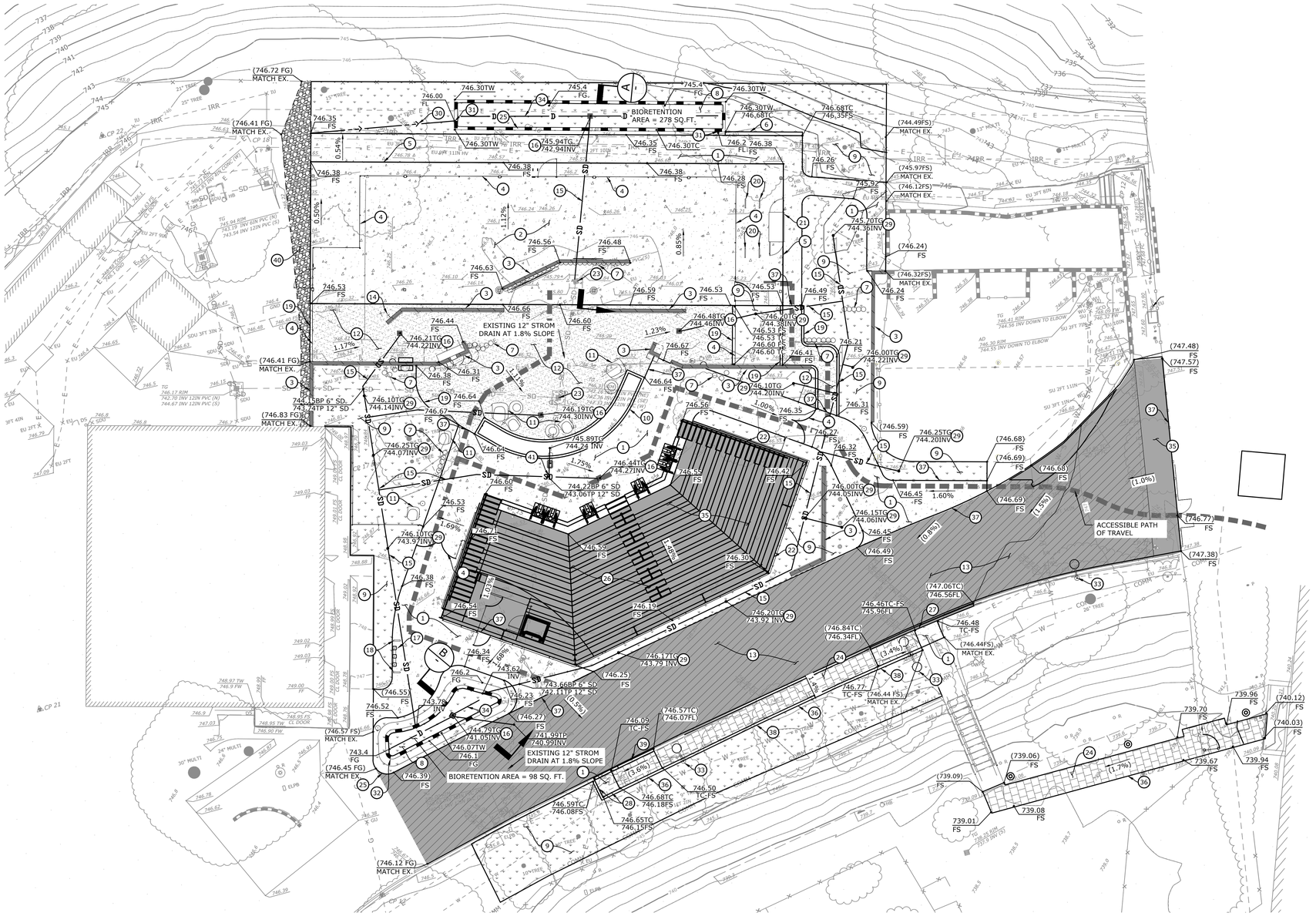
DEMOLITION PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN:	CHECKED:

SHEET NUMBER:

C100

DATE: 03/10/2025 SHEET: ___ OF ___


(746.72 FG)
MATCH EX.
(746.41 FG)
MATCH EX.
(746.41 FG)
MATCH EX.
(746.83 FG)
MATCH EX.
(746.57 FG)
MATCH EX.
(746.45 FG)
MATCH EX.
(746.12 FG)
MATCH EX.
BIORETENTION
AREA = 278 SQ.FT.
EXISTING 12" STROM
DRAIN AT 1.8% SLOPE
EXISTING 12" STROM
DRAIN AT 1.8% SLOPE
BIORETENTION AREA = 98 SQ. FT.
ACCESSIBLE PATH
OF TRAVEL
(744.49FS)
MATCH EX.
(745.97FS)
MATCH EX.
(746.12FS)
MATCH EX.
(746.24)
FS
(746.32FS)
MATCH EX.
(746.44FS)
MATCH EX.
(747.48)
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(10.5%)
1.17%
1.23%
1.75%
1.00%
1.60%
1.69%
0.54%
0.50%
0.85%
11.12%
1.80%
1.48%
1.48%
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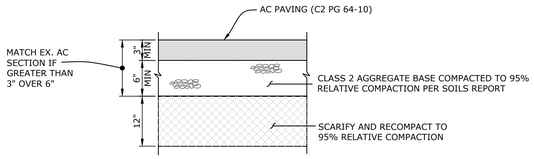
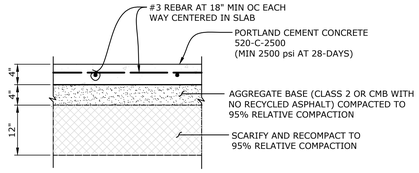
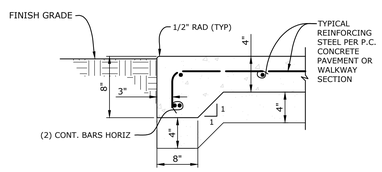


AC PAVEMENT SECTION (A)
SCALE: N.T.S.

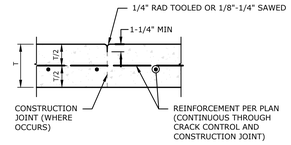


NOTES:
1. CONSTRUCT THICKENED EDGE AT WALKWAY PERIMETER PER DETAIL "C" THIS SHEET
2. SAWCUT OR TOOLED CRACK CONTROL JOINTS AT 8' MAX O.C. E.W. PER DETAIL "D" THIS SHEET
3. CONSTRUCT EXPANSION JOINTS AT ADJACENT STRUCTURES OR EXISTING PAVING PER DETAIL "E" THIS SHEET

PCC WALKWAY PAVEMENT SECTION (B)
SCALE: N.T.S.

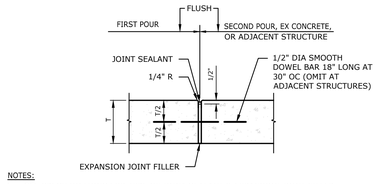


PCC PAVEMENT OR WALKWAY THICKENED EDGE
SCALE: N.T.S.



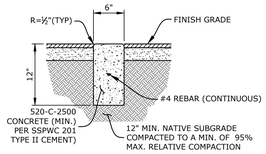
NOTES:
1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT.
2. CONSTRUCTION JOINTS SHALL ONLY BE LOCATED WHERE A CRACK CONTROL JOINT OR OTHER JOINT WOULD OTHERWISE HAVE BEEN REQUIRED.
3. SEE PLAN FOR THICKNESS, T.
4. FOR CRACK CONTROL JOINTS LOCATIONS, SEE ARCH. PLANS.
5. CRACK CONTROL JOINTS TO BE SPACED AT 8' MAX O.C. E.W.

CONSTRUCTION/CRACK CONTROL JOINT (D)
SCALE: N.T.S.



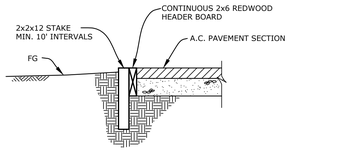
NOTES:
1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT & EXPANSION JOINT FILLER.
2. USE SMOOTH BARS FOR DOWELS COATED TO PREVENT BOND, GREASE ONE END PRIOR TO SECOND POUR.
3. SEE PLAN FOR THICKNESS, T.
4. PROVIDE ADEQUATE SUPPORT FOR DOWELS TO ENSURE THEY REMAIN LEVEL WITH FINISH SURFACE.
5. STOP SLAB REINFORCING AT EXPANSION JOINTS.

EXPANSION JOINT (E)
SCALE: N.T.S.

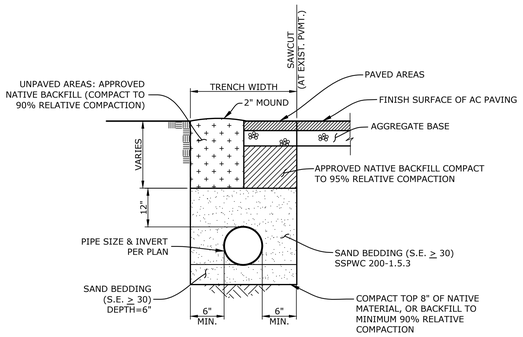


NOTE: 1" DEEP CRACK CONTROL JOINTS TO BE LOCATED WITH A MAXIMUM OF 10' SPACING. TOP OF CURB SHALL HAVE A SMOOTH TROWEL FINISH.

0" CONCRETE CURB (F)
SCALE: N.T.S.

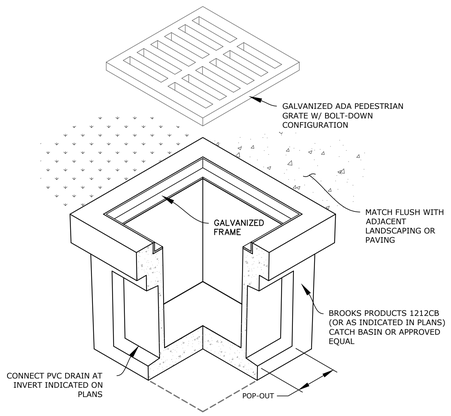


REDWOOD HEADER DETAIL (G)
SCALE: N.T.S.



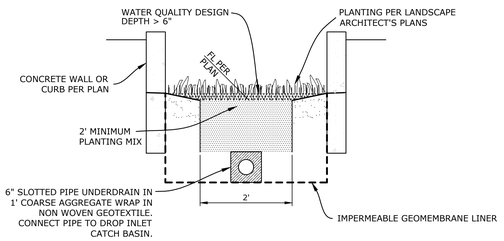
NOTE:
CONTRACTOR SHALL VERIFY EXISTING UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS TO THE UTILITY CONSTRUCTION

TYPICAL TRENCH SECTION (H)
SCALE: N.T.S.



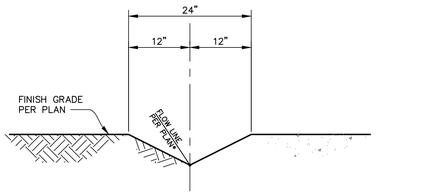
PRECAST CATCH BASIN (I)
SCALE: N.T.S.

TYPICAL CONCRETE WALL (J)
SCALE: N.T.S.

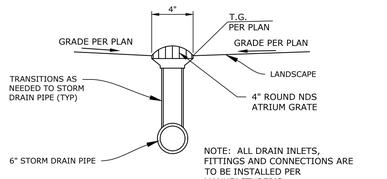


NOTE: AGGREGATE-WRAPPED SLOTTED PIPE UNDERDRAIN SHALL NOT BE CONSTRUCTED FOR SWALES WITH LONGITUDINAL SLOPES GREATER THAN 1%

BIOFILTRATION (K)
SCALE: N.T.S.

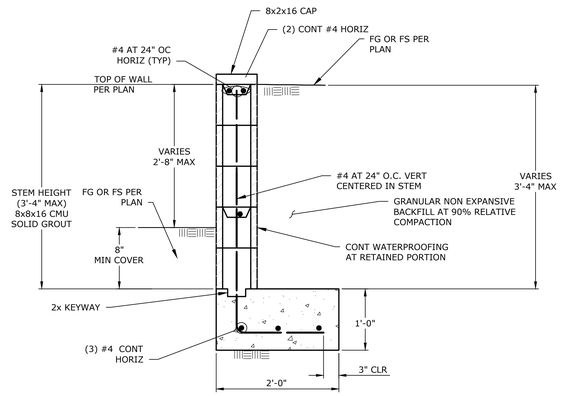


24" GRADED SWALE DETAIL (L)
SCALE: N.T.S.



NOTE: ALL DRAIN INLETS, FITTINGS AND CONNECTIONS ARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ATRIUM DRAIN (M)
SCALE: N.T.S.



WALL DETAIL (N)
N.T.S

N:\PROJECTS\0075\09 ZOO PRESENTATION ARENA\ENGINEERING\ACAD\IMPROVEMENTS\0075.09 DETAILS

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS RD.
MOORPARK, CA 93021

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

ECG Encompass Consultant Group
333 N. LANTANA ST, SUITE 287, CAMARILLO, CA 93010
PHONE: 805.322.4443 WEBSITE: WWW.ECGCIVIL.COM

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
GLEN H. PAGE
NO 61468
CIVIL
STATE OF CALIFORNIA

Project Status

SHEET TITLE:
DETAILS

PROJECT NO.: 21-MPC-040
PROJECT ARCH:
DRAWN:
CHECKED:
SHEET NUMBER:
C102
DATE: 03/10/2025
SHEET: ___ OF ___

BIORETENTION BASIN
3 L-2.2

BLDG Z2

D TWO-WIRE GROUND ROD

C A-5 4.2 1" 270 DRIPLINE

F TWO-WIRE CABLE

G MOISTURE SENSOR

F TWO-WIRE CABLE

E CABLE PULL BOXES

F TWO-WIRE CABLE

C A-4 4.8 1" DRIP

C A-3 6 GPM TEMP. DRIP 3.0 GPM BUBBLER

(E) LIQUIDAMBAR TREES PROTECT IN PLACE (TYPICAL)

(E) TURF EDUCATIONAL LANDSCAPE AREA TO BE RENOVATED AND PROVIDED WITH NEW SPRINKLERS. SEE SPECIFICATIONS FOR TURF RENOVATION INFORMATION.

F TWO-WIRE CABLE

SAW CUT ACROSS ASPHALT DRIVEWAY. COMPACT TRENCH AND ASPHALT PATCH BACK.

INSTALL NEW SPRINKLER HEADS 18" OFFSET FROM EDGE OF (E) METAL FENCING. (TYPICAL)

CABLE PULL BOX E

1.5 SHRUB A-2 1" C

8.2 LAWN SPRAY A-1 1" C

(E) SLOPE

INSTALL NEW SPRINKLER HEADS 18" OFFSET FROM EDGE OF (E) METAL FENCING. (TYPICAL)

LOW METAL FENCE

(E) ELECT. OUTLET

(E) ELECT. PULL BOX

LOW METAL FENCE

E CABLE PULL BOX

TWO-WIRE CABLE F

BIRD HABITAT

(E) SLOPE

LOW METAL FENCE

LOW METAL FENCE

LOW METAL FENCE

TRENCH ACROSS TORTOISE HABITAT B

DG PATHWAY

TWO-WIRE CABLE F

POND

CLARENCE THE TORTOISE HABITAT

TRENCH ACROSS TORTOISE HABITAT B

E CABLE PULL BOX

LOW METAL FENCE

SALVAGE (E) DG PRIOR TO TRENCHING. REPLACE AFTER TRENCH COMPACTION EFFORTS ARE COMPLETED.

(E) JUNIPER

TWO-WIRE CABLE F

DG PATHWAY

(E) 24" WIDE CONC. GUTTER

LOW METAL FENCE

(E) CHAIN LINK FENCE

A IRRIGATION P.O.C.

NOTE:
REMOTE CONTROL STATION NUMBERS IDENTIFIED ON THIS PLAN ARE NOT THE ACTUAL STATION NUMBERS BUT SIMPLY PLACE HOLDERS FOR BIDDING PURPOSES. CONTRACTOR SHALL VERIFY WITH THE MOORPARK COLLEGE REPRESENTATIVE THE SPECIFIC DESIRED VALVE STATION NUMBERS FOR THIS SCOPE OF WORK. PURCHASE AND INSTALL NEW CHRISTY STANDARD YELLOW VALVE I.D. TAGS AND HEAT STAMP THE TOP OF THE VALVE BOX LIDS WITH MOORPARK COLLEGE DESIRED VALVE STATION NUMBERS. NOTE THESE CHANGES ON THE IRRIGATION AS-BUILT DRAWINGS.

EATM MULTI-PURPOSE EDUCATIONAL BLDG.

FOR IRRIGATION LEGEND SEE SHEETS L1.2

0' 5' 10 20' 40'

NORTH

DIVISION OF TH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
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COMMISSIONED ARCHITECT

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CONSULTANT

JORDAN & BAIN
LANDSCAPE ARCHITECTS, INC.
459 NORTH VENTURA AVE., VENTURA CA 93001
(805) 642-3641 FAX (805) 653-7874

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STAMPS/SEALS

REGISTERED LANDSCAPE ARCHITECT
JOHN CHRIS BAIN
No. 3454
RENEWAL DATE
04-30-26
11-01-24
DATE
STATE OF CALIFORNIA

SHEET TITLE:

IRRIGATION PLAN

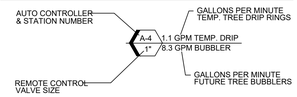
PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: JB	CHECKED:
SHEET NUMBER: L1.1	
DATE: 11/11/24	SHEET: ___ OF ___

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL / REMARKS	DETAIL NO. / SHEET
	SLEEVING	JIM EAGLE	SCH. 40 PVC & CLASS 200 PVC - SOLVENT WELD - 24" BELOW GRADE - SEE SLEEVING SCHEDULE ON THIS SHEET	1 / L1.2
	EXISTING IRRIGATION MAINLINE	UNKNOWN	PVC - SOLVENT WELD PIPING - 24" BELOW GRADE - FIELD VERIFY EXACT SIZE AND DEPTH OF MAINLINE	N.A.
	MAINLINE - 1-1/2" & LESS	JM EAGLE	SCH. 40 PVC - SOLVENT WELD - 24" BELOW GRADE - FITTINGS TO BE SCH. 80 PVC SOLVENT WELD CONNECTIONS	1 / L1.2
	LATERAL	JM EAGLE	SCH. 40 PVC - SOLVENT WELD - 12" BELOW GRADE - FITTINGS TO BE SCH. 40 PVC SOLVENT WELD CONNECTIONS	1 / L3.1
	TWO-WIRE CABLE	RAIN MASTER	TW-CAB-14 - BLUE COLORED JACKET - INSTALLED IN A 1-1/4" SCH. 40 PVC ELECTRICAL CONDUIT 24" BELOW GRADE	1, 8 / L4.0
	FLEXIBLE PVC HOSE	HUNTER	MODEL IH-250 - BROWN COLORED FLEXIBLE PVC HOSE - 3/8" IPS SIZE	11 / L3.1
	DRIPLINE TUBING	HUNTER	MODEL HDL-09-12-100-CV / .9 GPH PRESSURE COMPENSATING EMITTERS SPACED 12" O.C. - BURY TUBING 3" BELOW FINISH GRADE	18, 19, 20 / L3.1
	EX. REMOTE CONTROL VALVE	RAIN BIRD	EFB-CP SERIES - SIZES NOTED - CONNECTED TO EXISTING RAIN MASTER TWO-WIRE SYSTEM - PROTECT IN PLACE	N.A.
	LOW FLOW DRIP REMOTE CONTROL VALVE ASSEMBLY	RAIN BIRD	100-PEBS REMOTE CONTROL VALVE - 1" SIZE - WITH A RAIN BIRD 1" PRESSURE REGULATING BASKET FILTER MODEL PRB-QKCHK-100 AND A 1" BRASS BALL VALVE, NIBCO MODEL T-580 SERIES - COMPLETED ASSEMBLY INSTALLED IN A JUMBO VALVE BOX W/ GREEN LID	7 / L3.1
	REMOTE CONTROL VALVE	RAIN BIRD	EFB-CP SERIES - SIZES NOTED - IN A RECTANGULAR VALVE BOX - GREEN LID	6 / L3.1
	BRASS BALL VALVE	NIBCO	T-580 SERIES - LINE SIZE - IN A RECTANGULAR VALVE BOX - GREEN LID	3 / L3.1
	QUICK COUPLER	RAIN BIRD	44 RC - 1" SIZE - INSTALLED IN A 10" ROUND VALVE BOX	5 / L3.1
	UNIVERSAL AIR RELEASE VALVE	CRISPIN	IC-10A (1" SIZE) - INSTALL AT HIGHEST ELEVATION ON NEW IRRIGATION MAINLINE IN VALVE BOX	4 / L3.1
	PLASTIC WIRE PULL BOX	CARSON / EQ.	1419-12-4B (14"W X 19"L X 12D) - GREEN "T" STYLE LID	8 / L3.1
S	TW-SOIL MOISTURE SENSOR	RAINMASTER	SPLICE SOIL MOISTURE SENSOR TO TWO WIRE CABLE AS PER RAINMASTER SPECIFICATIONS - INSTALL SOIL MOISTURE SENSOR AT SPECIFIC DEPTH WITHIN TREE PLANTING PIT AS DIRECTED BY MOORPARK COLLEGE REPRESENTATIVE	SEE RAINMASTER SPECIFICATIONS
	TWO WIRE GROUNDING DETAIL / LIGHTNING ARRESTOR	RAIN MASTER	DECODER MODEL TW-LA-1 WITH (1) 8'-0" COPPER CLAD GROUNDING ROD WITH COPPER CLAMP. COVER DECODER, TWO WIRE SPLICES AND GROUNDING ROD WITH A STANDARD RECTANGULAR VALVE BOX - HEAT STAMP LID 'GR'	12, 13 / L4.0
	DRIP SYSTEM FLUSH VALVE	SPEARS / EQUAL	3/4" SCH. 40 PVC ECONOMY BALL VALVE IN RECTANGULAR VALVE BOX WITH 3'-0" OF PVC FLEX HOSE	15 / L3.1
	DRIP AIR RELIEF VALVE	HUNTER	MODEL PLD-AVR - INSTALLED ON BURIED TUBING SYSTEM - IN A 6" ROUND VALVE BOX & GRAVEL SUMP	16 / L3.1
	DRIP SYSTEM INDICATOR	HUNTER	MODEL ECO-ID-12 - 12" HIGH POP BODY WITH YELLOW PLASTIC RISER AND FURNISHED - INSTALLED ON END OF DRIPLINE PVC HEADER	17 / L3.1
	(E) AIR RELIEF VALVE	HUNTER	2" SIZE - SALVAGE AND REINSTALL ON SAME MAINLINE SEGMENT AS PER P.O.C. NOTE ON PLANS	N.A.

Q	T	H	F					PSI	RAD	GPM 90°	GPM 120°	GPM 180°	GPM 360°	
◔	◔	◓			POP UP TURF ROTATOR	HUNTER	PROS-06-PRS40-CV-MP1000-90	40	8 -14	0.21	0.32	0.42		
⊕	⊖	⊖			POP UP TURF ROTATOR	HUNTER	PROS-06-PRS40-CV-MP2000-90	40	14-21	0.43	0.60	0.77		
				◆	ROOT ZONE WATERING SYSTEM	HUNTER	RZWS-36-25-CV - 36" LONG ROOT ZONE WATERING SYSTEM WITH .25 BUBBLER INSTALL (3) RZWS-36-25-CV UNITS FOR EACH TREE. REMOVE BUBBLERS FROM ALL (3) ASSEMBLIES AND RETURN TO MOORPARK COLLEGE REPRESENTATIVE. DRILL A 1" DIAMETER HOLE IN THE CENTER OF (1) RZWS TREE GRATE TO ACCESS BUBBLER NIPPLE. INSTALL A 1/2" FEMALE ADAPTER TO BUBBLER NIPPLE. THREAD A UVR TREATED SCH. 40 PVC STREET ELBOW ON TO FEMALE ADAPTER WITH 1/2" FPT OPENING CLEAR OF TOP OF GRATE. THREAD INTO STREET ELBOW A HUNTER MODEL PLD-LOC-050 (1/2" MALE PIPE THREAD X LOC) FITTING TO TRANSITION FROM PVC TO ON GRADE DRIPLINE TUBING. CUT A 6" LONG PIECE OF HUNTER MODEL HDL-CV TUBING WITHOUT EMITTERS TO EXTEND TO EDGE OF TREE ROOTBALL. INSTALL A HUNTER MODEL PLD-LOC-TEE ON END OF TUBE. INSTALL A 9' LOOP OF HUNTER MODEL HDL-09-12-100-CV DRIPLINE TUBING LOOP ALONG THE OUTER EDGE OF THE 24" BOX TREE ROOT BALL. CONNECT BOTH ENDS OF THE TUBING LOOP TO THE PLD-LOC-TEE. SECURE TUBING TO FINISH GRADE USING 6" GALVANIZED STEEL TUBING STAPLES 2'-0" ON CENTER. INSTALL SCH. 40 PVC THREADED CAPS ON TWO REMAINING RZWS ASSEMBLIES TO CAP OFF UNTIL MOORPARK STAFF CONVERTS ALL (3) ASSEMBLIES BACK TO TREE BUBBLERS AFTER TREE ESTABLISHMENT PERIOD ENDS.	30	1				0.25	9,1O / L3.1
				◓	PRESSURE COMPENSATING FLOOD BUBBLER	HUNTER	MODEL PCB-.25 PRESSURE COMPENSATING BLACK COLORED BUBBLER - 1/2" FPT BODY. INSTALL (1) BUBBLER PER EACH SHRUB ON 1/2" IRRIGATION SIZE (3/8" IPS) FLEXIBLE PVC HOSE, HUNTER MODEL IH-250 (BROWN COLORED 3/8" IPS FLEXIBLE PVC HOSE). SOLVENT WELD (2) HUNTER MODEL IH-FIT-3850 BROWN COLORED PVC MALE ADAPTERS TO HOSE ENDS. CUT LENGTH OF FLEXIBLE PVC HOSE STARTING FROM RIGID PVC LATERAL SUPPLY TO LENGTH NEEDED TO INSTALL BUBBLER WITHIN PLANT BASIN AT SITE. USE I.P.S. PIPE PRIMER MODEL 'P-70' AND I.P.S. SOLVENT CEMENT MODEL '795' FOR ALL FLEXIBLE PVC TUBING SOLVENT WELDS TO BROWN COLORED HUNTER MALE ADAPTERS.	30	1				0.25	11 / L3.1
				◓	PRESSURE COMPENSATING FLOOD BUBBLER	HUNTER	MODEL HEB-20-CV PRESSURE COMPENSATING RED COLORED BUBBLER - 1/2" FPT BODY. INSTALL (1) BUBBLER PER EACH SHRUB ON 1/2" IRRIGATION SIZE (3/8" IPS) FLEXIBLE PVC HOSE, HUNTER MODEL IH-250 (BROWN COLORED 3/8" IPS FLEXIBLE PVC HOSE). SOLVENT WELD (2) HUNTER MODEL IH-FIT-3850 BROWN COLORED PVC MALE ADAPTERS TO HOSE ENDS. CUT LENGTH OF FLEXIBLE PVC HOSE STARTING FROM RIGID PVC LATERAL SUPPLY TO LENGTH NEEDED TO INSTALL BUBBLER WITHIN PLANT BASIN AT SITE. USE I.P.S. PIPE PRIMER MODEL 'P-70' AND I.P.S. SOLVENT CEMENT MODEL '795' FOR ALL FLEXIBLE PVC TUBING SOLVENT WELDS TO BROWN COLORED HUNTER MALE ADAPTERS.	30	1				0.03	11 / L3.1

REMOTE CONTROL VALVE SYMBOL



IRRIGATION SLEEVING SCHEDULE

ALL SLEEVES TO BE INSTALLED 24" BELOW GRADE

MAINLINE OR LATERAL PIPE SIZE	SLEEVE SIZE REQUIRED
1/2" SCH. 40 PVC / SCH. 40 PVC	1-1/4" SCH. 40 PVC
3/4" SCH. 40 PVC / SCH. 40 PVC	1-1/2" SCH. 40 PVC
1" SCH. 40 PVC / SCH. 40 PVC	2" SCH. 40 PVC
1-1/4" SCH. 40 PVC / SCH. 40 PVC	2-1/2" SCH. 40 PVC
1-1/2" SCH. 40 PVC / SCH. 40 PVC	3" CLASS 200 PVC
2" C900 PVC / SCH. 40 PVC	4" CLASS 200 PVC
2-1/2" C900 PVC / SCH. 40 PVC	4" CLASS 200 PVC
3" C900 PVC / SCH. 40 PVC	6" CLASS 200 PVC
4" C900 PVC / SCH. 40 PVC	6" CLASS 200 PVC

NOTE:
ALL TWO WIRE CABLE SHALL BE INSTALLED IN A CONTINUOUS 1-1/4" SCH. 40 PVC ELECTRICAL CONDUIT - 24" BELOW GRADE.

IRRIGATION KEY NOTES

SYMBOL — DESCRIPTION

A — IRRIGATION POINT OF CONNECTION 'A'
FIELD VERIFY WITH MOORPARK COLLEGE REPRESENTATIVE THE EXACT LOCATION OF A 2" BRASS MAINLINE AIR RELIEF VALVE INSTALLED AT THE END OF THE (E) REMOTE CONTROL VALVE MANIFOLD. EXCAVATE AROUND THE AIR RELIEF VALVE AND REMOVE THE VALVE BOX AND 2" AIR RELIEF VALVE FROM THE MAINLINE. CUT END OF MAINLINE TO INSTALL A 2" SCH. 80 PVC TEE. ON ONE SIDE OF THE TEE, INSTALL NEW 2" CLASS 315 PVC MAINLINE SEGMENT AND REINSTALL THE (E) 2" AIR RELIEF VALVE TO BE ONCE AGAIN AT THE END OF THE (E) REMOTE CONTROL MANIFOLD. REINSTALL THE SALVAGED VALVE BOX OVER THE REPOSITIONED AIR RELIEF VALVE. REDUCE THE REMAINING OPENING ON THE NEW 2" SCH. 80 PVC TEE TO 1-1/2" SIZE. TRENCH AND INSTALL NEW 1-1/2" SCH. 40 PVC MAINLINE 24" BELOW GRADE. INSTALL A NEW 1-1/2" BRASS BALL VALVE TO USE AS AN ISOLATION VALVE FOR THE NEW 1-1/2" SCH. 40 PVC MAINLINE. FIELD VERIFY THE EXACT LOCATION OF THE (E) RAIN MASTER TWO-WIRE CABLE IN A REMOTE CONTROL VALVE BOX WITH THE VENTURA COLLEGE REPRESENTATIVE. TRENCH AND INSTALL A CONTINUOUS 1-1/4" SCH. 40 PVC ELECTRICAL CONDUIT TO HOUSE THE NEW RAIN MASTER TWO-WIRE CABLE REQUIRED FOR THIS PROJECT. INSTALL 1-1/4" SCH. 40 PVC ELECTRICAL SWEEP ELBOWS INTO AND OUT OF ALL REMOTE CONTROL VALVE BOXES AND CABLE PULL BOXES. SPLICE NEW RAIN MASTER TWO-WIRE CABLE TO (E) CABLE AND TO ALL DECODERS AND VALVE SOLENOIDS USING 3M MODEL DBR-Y6 WATER PROOF WIRES SPLICE CONNECTORS. INSTALL ALL RAIN MASTER EQUIPMENT AS PER MANUFACTURER'S SPECIFICATIONS.

B — TRENCH NEW IRRIGATION MAINLINE AND 1-1/4" TWO-WIRE CONDUIT ACROSS TORTOISE HABITAT
CONTRACTOR SHALL COORDINATE WITH MOORPARK COLLEGE STAFF 48 HOURS IN ADVANCE BEFORE BEGINNING ANY WORK WITHIN THE TORTOISE HABITAT. MOORPARK COLLEGE ZOO STAFF WILL RELOCATE THE TORTOISE OR POSITION IT SO THAT TRENCHING OPERATIONS CAN OCCUR WITHOUT ENDANGERING THE TORTOISE. TRENCHES MUST BE COMPACTED TO 90% RELATIVE COMPACTION WHEN ALL PIPING HAS BEEN INSTALLED. CONTRACTOR SHALL HAND DIG UNDER THE (E) TORTOISE ENCLOSURE FENCING TO ENSURE THAT THE FENCING IS NOT DAMAGED DURING THE TRENCHING OPERATIONS. CONTRACTOR SHALL REVIEW THE COMPLETED WORK WITHIN THE TORTOISE ENCLOSURE TO ENSURE THAT ALL DEBRIS HAS BEEN REMOVED AND THAT THE TRENCH HAS BEEN COMPACTED TO THE SATISFACTION OF THE MOORPARK COLLEGE ZOO STAFF. TRENCHING OPERATIONS ACROSS THE TORTOISE TRENCH MUST BE COMPLETED IN (1) WORK DAY.

C — INSTALL NEW REMOTE CONTROL VALVES WITH SINGLE STATION RAINMASTER TWO-WIRE DECODERS:
INSTALL NEW RAIN BIRD REMOTE CONTROL VALVES IN INDIVIDUAL VALVE BOXES AS PER DETAIL. INSTALL A SINGLE STATION RAIN MASTER TWO-WIRE DECODER FOR EACH REMOTE CONTROL VALVE WITHIN VALVE BOX. SECURE DECODER TO THE INSIDE OF THE VALVE BOX WALL WITH (2) STAINLESS STEEL SCREWS. SPLICE TWO-WIRE CABLE TO SINGLE STATION RAIN MASTER DECODER, MODEL RMD-1, ALONG WITH COMMON AND CONTROL WIRES ATTACHED TO VALVE SOLENOID AS PER RAIN MASTER SPECIFICATIONS. ALL WIRE SPLICE CONNECTORS SHALL BE MADE WITH 3M MODEL DBR-Y6 WATERPROOF WIRE CONNECTORS OR RAIN MASTER WIRE CONNECTORS ONLY.

D — INSTALL LIGHTNING GROUNDING EQUIPMENT ON TWO-WIRE CABLE
INSTALL THE FOLLOWING RAIN MASTER EQUIPMENT ATTACHED TO THE TWO-WIRE CABLE RUN TO GROUND THE CABLE IN THE EVENT OF AN ELECTRICAL SURGE CREATED AS A RESULT OF A LIGHTNING STRIKE. THE CONTRACTOR SHALL INSTALL A STANDARD RECTANGULAR VALVE BOX TO HOUSE A RAIN MASTER LIGHTNING ARRESTOR MODEL TW-LA-1 AS WELL AS A 8'-0" COPPER CLAD GROUNDING ROD IMBEDDED INTO THE SOIL WITH A COPPER CLAMP AND GROUNDING COPPER WIRE. THE TWO-WIRE CABLE SHALL BE CUT AND SPLICED ONTO THE LIGHTNING ARRESTOR AND CONNECTED TO THE GROUNDING ROD AND CLAMP AS PER RAIN MASTER SPECIFICATIONS. THE 8'-0" COPPER CLAD ROD SHALL BE OFFSET FROM THE TWO-WIRE CABLE RUN INSTALLED AS PER RAIN MASTER SPECIFICATIONS. PROVIDE ALL REQUIRED WIRES, WATER TIGHT CONNECTORS, 3M MODEL DBR-Y6 SERIES, AND VALVE BOXES, AS REQUIRED BY RAIN MASTER AND PROJECT SPECIFICATIONS.

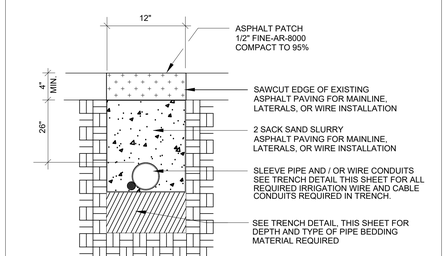
E — TWO-WIRE CABLE PULL BOX OR TWO WIRE CABLE SPLICE BOX
INSTALL STANDARD GREEN COLORED RECTANGULAR VALVE BOXES OVER THE 1-1/4" SCH. 40 PVC GRAY ELECTRICAL TWO-WIRE CABLE CONDUIT. INSTALL SCH. 40 PVC ELECTRICAL SWEEP ELBOWS INTO AND OUT OF ALL VALVE BOXES ON CONDUIT RUN. INSTALL A VALVE BOX AT EVERY CONDUIT DIRECTIONAL CHANGE AS WELL AS AT INTERVALS ALONG THE CONDUIT RUN AS PER PLAN. USE ONLY 3M MODEL DBR-Y6 WATER PROOF WIRE SPLICE CONNECTORS FOR ANY REQUIRED TWO-WIRE CABLE SPLICE CONNECTIONS AS PER RAIN MASTER SPECIFICATIONS.

F — TWO-WIRE CABLE INSTALLED IN 1-1/4" SCH. 40 CONTINUOUS CONDUIT
INSTALL TWO-WIRE CABLE, RAIN MASTER MODEL TW-CAB-14, IN A CONTINUOUS 1-1/4" SCH. 40 PVC ELECTRICAL CONDUIT AT 24" BELOW GRADE. INSTALL 1-1/4" SCH. 40 PVC ELECTRICAL SWEEP ELBOWS INTO AND OUT OF ALL REMOTE CONTROL VALVE BOXES, WIRE PULL BOXES, WIRE SPLICE BOXES, AND ALL LIGHTNING GROUNDING CONNECTIONS. WIRE SHALL BE INSTALL CONTINUOUSLY ALONG MAINLINE RUN WITH ALL SPLICES OCCURRING IN EITHER REMOTE CONTROL VALVE BOXES, LIGHTNING GROUNDING EQUIPMENT VALVE BOXES, OR WIRE SPLICE BOXES ONLY. IN THE EVENT THE CABLE IS SEVERED DURING CONSTRUCTION, A RECTANGULAR VALVE BOX SHALL BE INSTALLED OVER THE WIRE SPLICE AND WIRES SPLICED TOGETHER WITH 3M WATER PROOF WIRE CONNECTORS, MODEL DBR-Y6 SERIES ONLY. THE VALVE BOX LID SHALL BE HEAT STAMPED 'WIRE SPLICE BOX'. ALL WIRE SPLICES AND CONNECTIONS SHALL BE PERFORMED AS PER RAIN MASTER SPECIFICATIONS.

G — INSTALL RAIN MASTER SOIL MOISTURE SENSOR ON TWO-WIRE CABLE - PLACE IN TREE PLANT PIT
INSTALL A RAIN MASTER SOIL MOISTURE SENSOR TO MONITOR TREE ROOT WATER VOLUME. INSTALL A 10" ROUND VALVE BOX IN TREE PLANTING FINGER. INSTALL 1-1/4" SCH. 40 PVC SWEEP ELBOWS INTO AND OUT OF THE 10" ROUND VALVE BOX. PULL TWO-WIRE CABLE INTO VALVE BOX, CUT TWO WIRE CABLE, AND USING 3M MODEL DBR-Y6 WATERPROOF WIRE CONNECTORS, SPLICE SOIL MOISTURE SENSOR ON TO TWO-WIRE CABLE. THE SOIL MOISTURE SENSOR IS FURNISHED WITH (2) 14-GAUGE DIRECT BURY WIRE SEGMENTS, 50' IN LENGTH. TRENCH AND EXTEND THE (2) 14-GAUGE WIRES CONNECTED TO THE SOIL SENSOR TO THE ADJACENT TREE PLANTING PIT. COORDINATED WITH MOORPARK COLLEGE STAFF TO DETERMINE THE SPECIFIC DEPTH THE SOIL MOISTURE SENSOR SHOULD BE INSTALLED WITHIN TREE PLANTING PIT. COMPLY WITH ALL RAIN MASTER INSTALLATION SPECIFICATIONS.

IRRIGATION PROJECT NOTES

1. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR AND THE MOORPARK COLLEGE REPRESENTATIVE SHALL PARTICIPATE IN A THOROUGH IRRIGATION SYSTEM REVIEW OF THE PROJECT SITE. ALL REMOTE CONTROL VALVES SHALL BE TURNED ON AND OBSERVED IN OPERATION BY BOTH THE CONTRACTOR AND MOORPARK COLLEGE REPRESENTATIVE. ANY EXISTING DEFECTS WILL BE LISTED IN DETAIL IDENTIFYING THE SPECIFIC VALVE STATION NUMBER AND DESCRIBING THE EXACT BROKEN OR NON FUNCTIONING IRRIGATION COMPONENT NOTED DURING THE SITE REVIEW. AT THE CONCLUSION OF THE IRRIGATION REVIEW, THE CONTRACTOR SHALL GENERATE A SUMMARY OF THE ITEMS IDENTIFIED BY BOTH PARTIES LISTING ALL REMOTE CONTROL VALVES OPERATED, IDENTIFYING IF THE VALVE PERFORMED WITHOUT ANY DEFECTS OR SPECIFICALLY IDENTIFYING ANY OBSERVED DEFECTS OR NON FUNCTIONING COMPONENTS, SUCH AS BROKEN HEADS, CLOGGED NOZZLES, NON OPERATING VALVE SOLENOID, BROKEN PIPING, OR OTHER NOTED DEFECT. THE COMPLETED SUMMARY OF ITEMS NOTED SHALL BE LISTED ON A DOCUMENT CALLED 'EXISTING IRRIGATION SYSTEM OBSERVATIONS'. THIS DOCUMENT SHALL BE SIGNED BY THE CONTRACTOR AND SUBMITTED TO THE MOORPARK COLLEGE REPRESENTATIVE FOR A CONFIRMING SIGNATURE. THE MUTUALLY SIGNED 'EXISTING IRRIGATION SYSTEM OBSERVATIONS DOCUMENT' SHALL BE SENT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR INSPECTION PURPOSES AT THE CONCLUSION OF THE CONSTRUCTION WORK. IF REQUESTED BY THE MOORPARK COLLEGE REPRESENTATIVE, THE CONTRACTOR SHALL PROVIDE A LIST OF THE EXISTING DEFECTIVE IRRIGATION COMPONENTS NOTED WITH A DETAILED WRITTEN PROPOSAL TO REPAIR EACH ITEM IDENTIFIED ON THE LIST. A COPY OF THIS PROPOSAL WILL BE SENT TO THE LANDSCAPE ARCHITECT. THIS ADDITIONAL WORK PROPOSAL MUST BE REVIEWED AND APPROVED IN WRITING BY THE MOORPARK COLLEGE REPRESENTATIVE AND FORMALLY PRESENTED TO THE GENERAL CONTRACTOR BEFORE THE LANDSCAPE SUB-CONTRACTOR CAN BEGIN ANY ADDITIONAL REPAIR WORK. THE MUTUALLY SIGNED 'EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT' SHALL BE USED AS A GUIDE TO IDENTIFY ANY COLLATERAL DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM AS A RESULT OF NEW CONSTRUCTION PERFORMED ON SITE BY THE CONTRACTORS. ANY DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM NOT SPECIFICALLY IDENTIFIED ON THE 'EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT' SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THAT THE CONTRACTOR DOES NOT PARTICIPATE OR PERFORM THE EXISTING IRRIGATION SITE REVIEW, ANY EXISTING IRRIGATION EQUIPMENT OR COMPONENTS DAMAGED ON THE PROJECT SITE NOTED BY THE LANDSCAPE ARCHITECT DURING THE FINAL IRRIGATION SYSTEM REVIEW SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE TO THE SATISFACTION OF THE MOORPARK COLLEGE REPRESENTATIVE.
2. FIELD VERIFY EXISTING STATIC WATER PRESSURE AND NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY WORK.
3. CONTACT DIG ALERT AT 1-800-227-2600 TO IDENTIFY AND LOCATE ALL ON-SITE UTILITIES PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL COORDINATE WITH THE MOORPARK COLLEGE REPRESENTATIVE AND REVIEW THE EXISTING SITE PRIOR TO BEGINNING WORK TO AVOID CONFLICTS WITH FUTURE CONSTRUCTION.
4. PROTECT IN PLACE AND KEEP IN WORKING CONDITION ALL EXISTING IRRIGATION SYSTEMS NOT A PART OF THIS WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING MAINLINE SEGMENT, LATERAL, IRRIGATION CONTROL WIRE, HYDRAULIC TUBING, REMOTE CONTROL VALVE, VALVE BOX, QUICK COUPLER, OR ANY OTHER IRRIGATION SYSTEM COMPONENT DAMAGED DURING THE RENOVATION PROCESS. ADJACENT FUNCTIONING IRRIGATION SYSTEM COMPONENTS MUST BE KEPT IN WORKING CONDITION TO MAINTAIN THE HEALTH AND VIGOR OF THE EXISTING TURF AND LANDSCAPE PLANTINGS. PROLONGED LACK OF WATER TO THESE PLANTERS AS A RESULT OF NEW CONSTRUCTION WORK THAT RESULTS IN THE LOSS OF TURF OR PLANTS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR COST AND TO THE SATISFACTION OF THE MOORPARK COLLEGE REPRESENTATIVE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCH SETTLING OR IRRIGATION HEAD SETTLING. ALL TRENCHES WILL BE BACK FILLED WITH CLEAN SOIL, COMPACTED TO 90 PERCENT RELATIVE COMPACTION AND PLANTED WITH APPROVED SEED OR PLANT MATERIAL AS PER PLAN. ALL HEADS THAT SETTLE WILL BE RAISED TO 1/2" ABOVE FINISH GRADE OR AS DIRECTED BY EITHER THE LANDSCAPE ARCHITECT OR MOORPARK COLLEGE REPRESENTATIVE. PROVIDE ADDITIONAL SOIL AS NECESSARY AND HAND TAMP AROUND HEAD TO PREVENT FUTURE SETTLING.
6. SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. TWO WIRE CABLE SHALL BE ENCLOSED IN A CONTINUOUS 1-1/4" SCH. 40 PVC ELECTRICAL CONDUIT FURNISHED WITH SWEEP ELBOWS INTO AND OUT OF ALL VALVE BOXES AS WELL AS AT ANY CONDUIT CHANGE OF DIRECTION. MAINLINE SLEEVES SHALL BE SIZED AS PER LEGEND ON PLANS. SEE SPECIFICATIONS AND IRRIGATION SLEEVING SCHEDULE FOR ADDITIONAL INFORMATION.
7. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
8. ALL SPRINKLER HEADS SPECIFIED ON THIS PROJECT ARE EQUIPPED WITH FACTORY INSTALLED CHECK VALVES IN THE SPRINKLER BODY. IN THE EVENT THAT LOW HEAD DRAINAGE STILL OCCURS, THE CONTRACTOR SHALL INSTALL INLINE SWING CHECK OR SPRING LOADED CHECK VALVES ON THE PVC LATERALS TO PREVENT LOW HEAD DRAINAGE. ANY INLINE CHECK VALVE INSTALLED ON PVC LATERALS MUST BE FURNISHED WITH A 10" ROUND PLASTIC VALVE BOX WITH A LOCKING GREEN PLASTIC LID.
9. ALL VALVE BOXES INSTALLED IN CONCRETE OR ASPHALT PAVING SHALL BE TRAFFIC RATED CONCRETE BOXES WITH CONCRETE LIDS. BOXES SHALL BE MANUFACTURED BY OLDCASTLE PRE-CAST, OR CHRISTY CONCRETE BOX EQUIVALENT, SIZED AS PER IRRIGATION PLAN. ALL RECTANGULAR PLASTIC VALVE BOXES SHALL HAVE THE MINIMUM DIMENSIONS OF (14-1/2"W X 19-1/2"L X 12-1/4"H) AND SHALL HAVE GREEN LOCKING PLASTIC LIDS. THE CONTRACTOR SHALL INCLUDE WITH THE COST OF THE PROJECT ANY PLASTIC VALVE BOX EXTENSION THAT MIGHT BE REQUIRED TO COMPLETE THE VALVE INSTALLATION AS PART OF THE BASE BID. PLASTIC BOX MANUFACTURER'S AND MODEL NUMBERS SHALL BE CARSON MODEL 1419-12 WITH 1419-4B 'T-STYLE GREEN LID', APPLIED ENGINEERING PRODUCTS MODEL 1015T-1G2G, OR NDS MANUFACTURING APPROVED EQUAL.
10. USE ONLY SCH. 80 PVC NIPPLES WHEN INSTALLING VALVES REQUIRING THREADED FITTINGS. SCH. 40 PVC MALE ADAPTERS SHALL NOT BE USED ON ANY VALVE ASSEMBLY.
11. MAKE ALL REQUIRED ADJUSTMENTS TO BOTH EXISTING AND NEW SPRINKLER HEADS TO PREVENT ANY IRRIGATION WATER FROM OVER SPRAYING ON TO ADJACENT PAVEMENT OR BUILDINGS. MAKE ANY NOZZLE REPLACEMENTS AS REQUESTED BY EITHER THE LANDSCAPE ARCHITECT OR THE MOORPARK COLLEGE REPRESENTATIVE TO IMPROVE IRRIGATION COVERAGE OR TO BALANCE PRECIPITATION RATE TO LANDSCAPE PLANTER AS PART OF BASE BID.
12. HEAT STAMP OR 'BRAND' INTO THE PLASTIC REMOTE CONTROL VALVE BOX LIDS THE NEW VALVE STATION NUMBER AND RELATED NEW AUTO CONTROLLER LETTER. PROVIDE CHRISTY STANDARD SIZE I.D. TAGS CONNECTED TO ALL NEW REMOTE CONTROL VALVE SOLENOIDS WITH STATION NUMBER AND RELATED EXISTING AUTO CONTROLLER IDENTIFICATION LETTER. VERIFY WITH THE MOORPARK COLLEGE REPRESENTATIVE THE EXACT DESIRED NEW REMOTE CONTROL VALVE STATION NUMBERS PRIOR TO ORDERING CHRISTY VALVE IDENTIFICATION TAGS OR HEAT STAMPING VALVE BOX LIDS.
13. ALL WATER TIGHT CONNECTORS USED TO SPLICE 14 GAUGE WIRES TO REMOTE CONTROL VALVE SOLENOIDS ON THIS PROJECT SHALL BE MANUFACTURED BY 3M, MODEL DBR-Y6. USE 3M COMPANY, MODEL DBR-Y6 SERIES OR RAIN MASTER EQUIVALENT WHEN SPLICING ANY NEW OR EXISTING TWO WIRE CABLES TOGETHER OR ON ALL WIRE CONNECTIONS TO RAINMASTER DECODERS.
14. INSTALL ALL IRRIGATION REMOTE CONTROL VALVES, GATE VALVES, AND QUICK COUPLING VALVES A MINIMUM DISTANCE OF 10'-0" FROM ALL TREE TRUNK LOCATIONS ILLUSTRATED ON PLANTING PLAN. CONFIRM LAYOUT OF EXISTING OR NEW TREE LOCATIONS PRIOR TO INSTALLING ANY VALVE.
15. EXISTING IMPROVEMENTS WITHIN THE WORK AREAS SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
16. UTILITIES MAY HAVE BEEN OMITTED ON THE IRRIGATION SHEETS. REVIEW CIVIL ENGINEER'S DRAWINGS AND EXERCISE CARE IN EXCAVATION WHILE PROTECTING EXISTING UTILITIES IN PLACE.
17. IRRIGATION MAINLINE FITTINGS FOR C900 PIPING AND CLASS 315 PVC PIPING SHALL BE DUCTILE IRON FITTINGS MANUFACTURED BY SMITH-BLAIR, LEEMCO, OR APPROVED EQUAL. MAINLINE FITTINGS FOR PIPE SIZES 1-1/2" SIZE OR LESS SHALL BE SCH. 80 PVC SOLVENT WELD. ALL SCH. 40 PVC LATERAL PIPING SHALL BE FURNISHED WITH SCH. 40 PVC SOLVENT WELD FITTINGS.



1 TRENCH SECTION THROUGH ASPHALT — N.T.S.

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CONSULTANT

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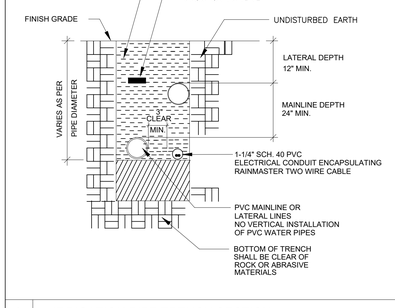
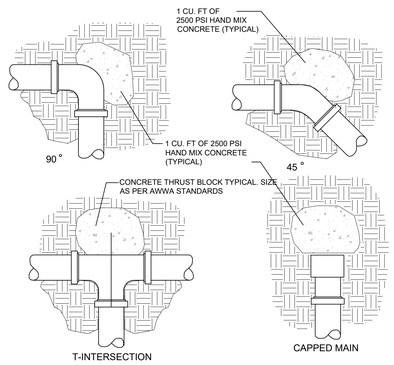
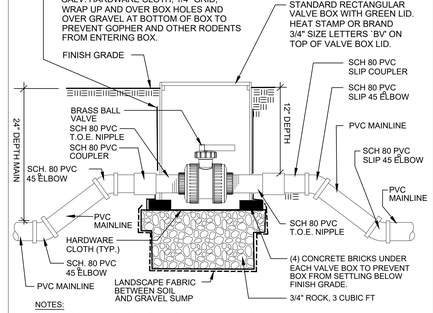


1 IRRIGATION PIPE TRENCH SECTION N.T.S.

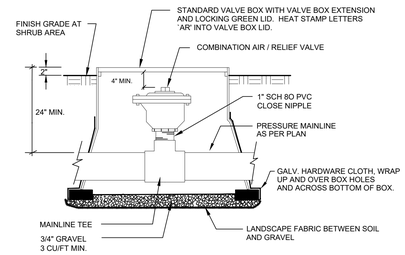


2 IRRIGATION MAINLINE THRUST BLOCK N.T.S.



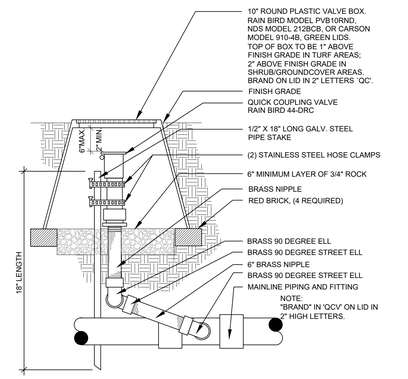
NOTES:
1. BOX TO BE INSTALLED AS TO ALLOW FOR PROPER OPERATION OF BALL VALVE INSTALL AT RIGHT ANGLE TO HARDSCAPE EDGE. INSTALL VALVE IN CENTER OF BOX.
2. INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.
3. HARDWARE CLOTH: GALVANIZED WELDED STEEL, MESH SHAPE SQUARE 1/4" x 1/4" IN SIZE, GAUGE 23 (MINIMUM THICKNESS SIZE).

3 BRASS BALL VALVE ON MAINLINE N.T.S.

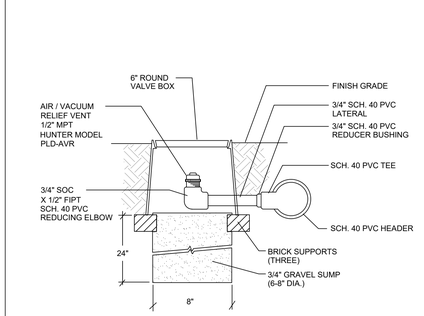


NOTES:
1. INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO CREATE SOIL RETENTION AROUND VALVE BODY AND PIPING TO MAIN LINE DEPTH.
2. HARDWARE CLOTH: GALVANIZED WELDED STEEL, MESH SHAPE SQUARE 1/4" x 1/4" IN SIZE, GAUGE 23 (MINIMUM THICKNESS SIZE).

4 MAINLINE UNIVERSAL AIR RELEASE VALVE N.T.S.

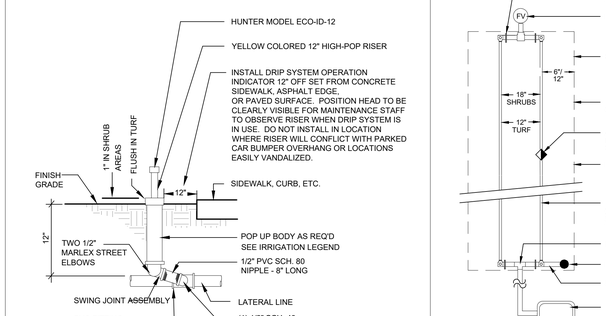


5 QUICK COUPLER N.T.S.



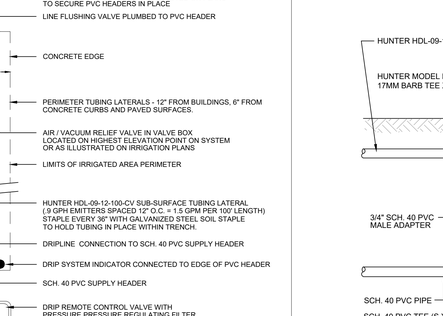
NOTES:
1. PRIOR TO BEGINNING TRENCHING OPERATIONS, LAYOUT NEW MAINLINE AND VALVE LOCATIONS USING MARKING FLAGS OR TEMPORARY PAINT AND OBTAIN APPROVAL FROM C.V.U.S.D. REPRESETATIVE.
2. EQUIPMENT SHALL BE INSTALLED SUCH THAT THERE IS NO LEVERAGE OR STRESS ON THE VALVE ASSEMBLY. PIPE SHALL NOT COME INTO CONTACT WITH VALVE BOX.
3. USE A NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS.
4. HARDWARE CLOTH: GALVANIZED WELDED STEEL, MESH SHAPE SQUARE 1/4" x 1/4" IN SIZE, GAUGE 23 (MINIMUM THICKNESS SIZE).
5. ONCE WIRES HAVE BEEN PULLED THROUGH CONDUIT, SEAL ENDS OFF WITH WATER PROOF CONDUIT SEALER TO PREVENT WATER COLLECTION INTO CABLE / WIRE CONDUIT.

6 REMOTE CONTROL VALVE N.T.S.



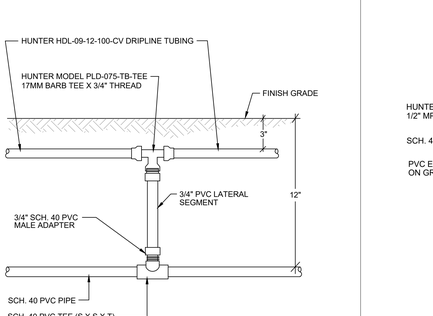
NOTES:
1. PRIOR TO BEGINNING TRENCHING OPERATIONS, LAYOUT NEW MAINLINE AND VALVE LOCATIONS USING MARKING FLAGS OR TEMPORARY PAINT AND OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE.
2. EQUIPMENT SHALL BE INSTALLED SUCH THAT THERE IS NO LEVERAGE OR STRESS ON THE VALVE ASSEMBLY. PIPE SHALL NOT COME INTO CONTACT WITH VALVE BOX.
3. USE A NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS.
4. HARDWARE CLOTH: GALVANIZED WELDED STEEL, MESH SHAPE SQUARE 1/4" x 1/4" IN SIZE, GAUGE 23 (MINIMUM THICKNESS SIZE).
5. ONCE WIRES HAVE BEEN PULLED THROUGH CONDUIT, SEAL ENDS OFF WITH WATER PROOF CONDUIT SEALER TO PREVENT WATER COLLECTION INTO CABLE / WIRE CONDUIT.

7 DRIP REMOTE CONTROL VALVE ASSEMBLY N.T.S.

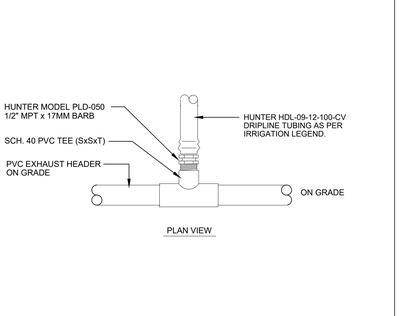


NOTES:
1. HARDWARE CLOTH: GALVANIZED WELDED STEEL, MESH SHAPE SQUARE 1/4" x 1/4" IN SIZE, GAUGE 23 (MINIMUM THICKNESS SIZE).
2. ONCE WIRES HAVE BEEN PULLED THROUGH CONDUIT, SEAL ENDS OFF WITH WATER PROOF CONDUIT SEALER TO PREVENT WATER COLLECTION INTO CABLE / WIRE CONDUIT.

8 TWO-WIRE CABLE PULL BOX N.T.S.



9 ROOT ZONE WATERING SYSTEM N.T.S.



10 DRIPLINE TREE RING FROM RZWS - SCHEMATIC N.T.S.

11 SHRUB BUBBLER ON PVC FLEXIBLE PVC HOSE N.T.S.

NOTES:
1. HARDWARE CLOTH: GALVANIZED WELDED STEEL, MESH SHAPE SQUARE 1/4" x 1/4" IN SIZE, GAUGE 23 (MINIMUM THICKNESS SIZE).
2. ONCE WIRES HAVE BEEN PULLED THROUGH CONDUIT, SEAL ENDS OFF WITH WATER PROOF CONDUIT SEALER TO PREVENT WATER COLLECTION INTO CABLE / WIRE CONDUIT.

12 TWO-WIRE GROUND ROD ARRESTOR FOR GROUND ROD N.T.S.

NOTE:
HARDWARE CLOTH: GALVANIZED WELDED STEEL, MESH SHAPE SQUARE 1/4" x 1/4" IN SIZE, GAUGE 23 (MINIMUM THICKNESS SIZE).

13 TWO WIRE CABLE GROUND ROD N.T.S.

14 POP UP LAWN ROTATOR SPRAY N.T.S.

15 DRIP SYSTEM FLUSH VALVE N.T.S.

16 DRIPLINE TUBING SYSTEM - AIR / VACUUM RELIEF VALVE N.T.S.

17 DRIP SYSTEM OPERATION INDICATOR N.T.S.

SCHEMATIC LAYOUT

NOTE:
FOR DRIP LINE SPACING REFER TO THE IRRIGATION PLAN.

18 SUB-SURFACE TUBING SCHEMATIC N.T.S.

19 DRIPLINE CONNECTION SECTION (PVC TO TUBING) N.T.S.

20 DRIPLINE TUBING CONNECTION TO PVC HEADER N.T.S.

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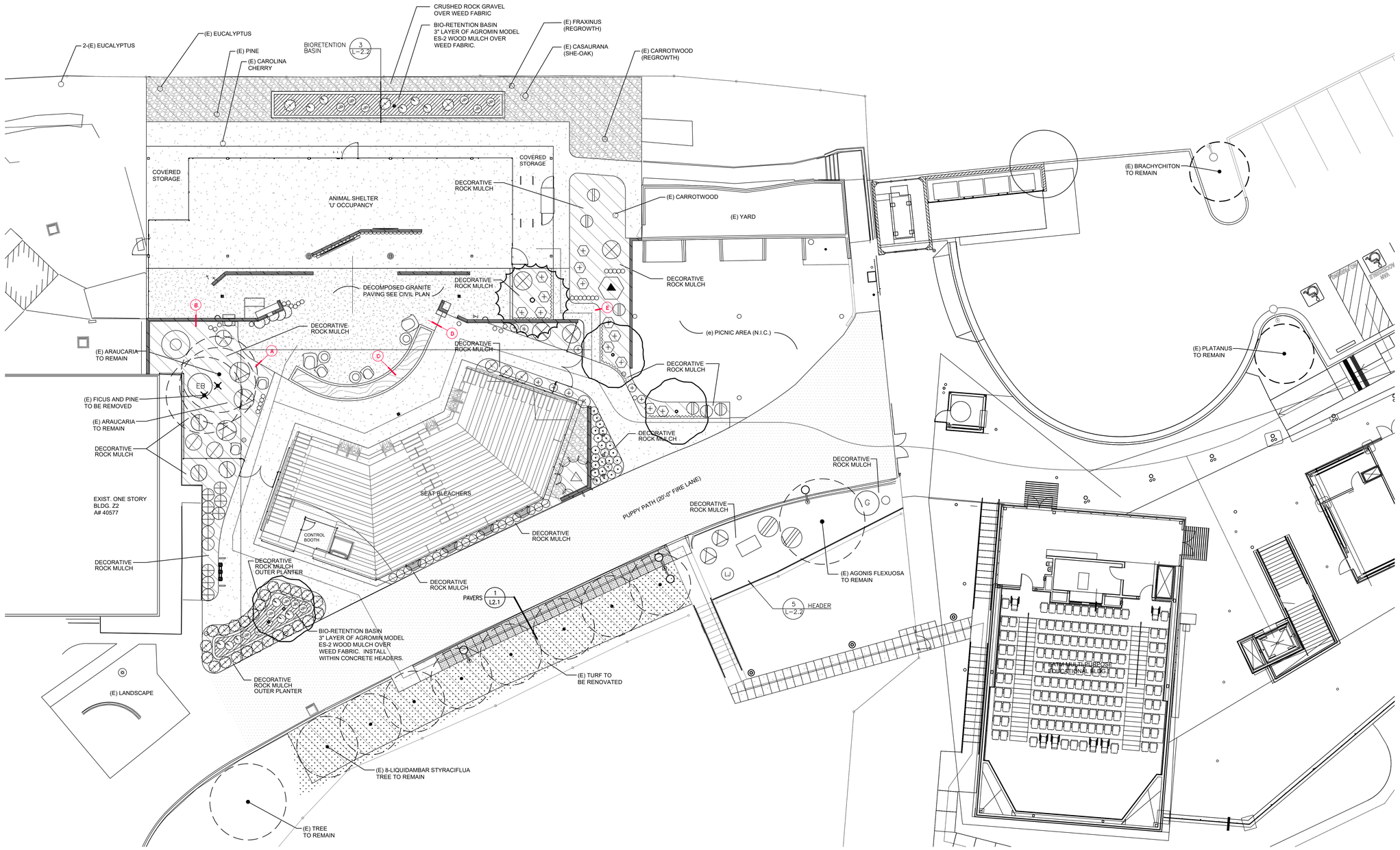
STAMPS/SEALS

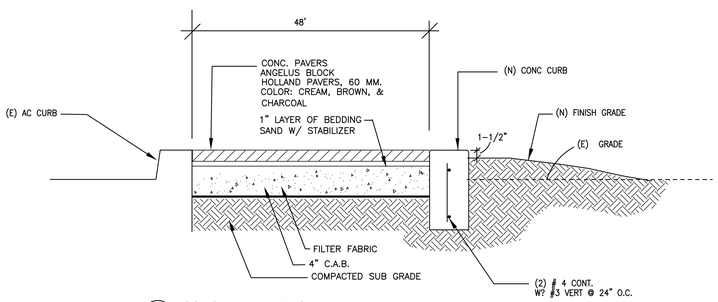
REGISTERED LANDSCAPE ARCHITECT
JAMES BAIN
No. 2492
RENEWAL DATE
11-01-24
STATE OF CALIFORNIA

SHEET TITLE:

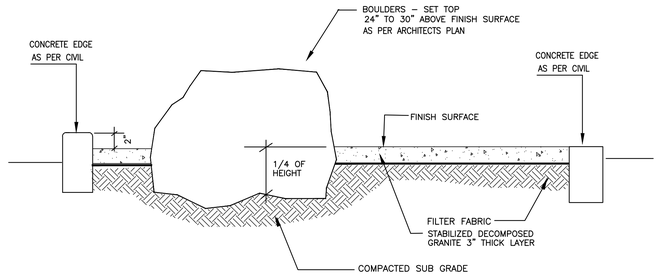
LANDSCAPE DETAILS

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: JB	CHECKED:
SHEET NUMBER: L1.3	
DATE: 11/11/24	SHEET: ___ OF ___





1 L2.1 CONCRETE PAVERS
SCALE: 1" = 1'-0"



2 L2.1 DECOMPOSED GRANITE PAVING
SCALE: 1" = 1'-0"

FOR PLANT LEGEND SEE SHEET L2.2

0' 5' 10 20' 40'

NORTH

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

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(805) 642-3641 FAX (805) 653-7874

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STAMPS/SEALS

REGISTERED LANDSCAPE ARCHITECT PAUL JORDAN 4001 02/2026 RENEWAL 24 11/04 STATE OF CALIFORNIA

SHEET TITLE:

PLANTING PLAN

PROJECT NO: 21-MPC-040
PROJECT ARCH:
DRAWN: PJ
CHECKED:
SHEET NUMBER: **L2.1**
DATE: 11/11/24
SHEET: ___ OF ___

PLANT LEGEND SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME	SIZE	QUANTITY	DETAIL REF.	WUCOLS NORTH CENTRAL COAST NO. 1
	AGAPANTHUS AFRICANUS AFRICAN LILY	5 GAL	3	2/L-2.2	LOW
	ALYOGYNE HAKEIFOLIA BLUE HIBISCUS	5 GAL	3	2/L-2.2	LOW
	ANIGOZANTHOS HYBRIDS KANGAROO PAW	1 GAL	9	2/L-2.2	LOW
	ARCTOSTAPHYLOS 'UVA-URSI' RADIANT KINNIKINNICK BEARBERRY	5 GAL	4	2/L-2.2	LOW
	ARCTOTIS ACULIS 'BIG MAJENTA' AFRICAN DAISY	1 GAL	24	2/L-2.2	LOW
LJ	CALLISTEMON V. 'LITTLE JOHN' DWARF CALLISTEMON	5 GAL	1	2/L-2.2	LOW
	CAREX PRAEGRACILIS CALIFORNIA FIELD SEDGE	1 GAL	28	2/L-2.2	LOW
	CORREA 'DUSKY BELLS' NATIVE FUSCHIA	1 GAL	2	2/L-2.2	LOW
	CORREA PULCHELLA SALMON CORREA	5 GAL	2	2/L-2.2	LOW
	DARWINIA TAXIFOLIA NCN	1 GAL	5	2/L-2.2	LOW
	DIANELLA PRUNINA 'RAINBOW TWIST' NCN	1 GAL	2	2/L-2.2	LOW
	DIETES BICOLOR AFRICAN IRIS	5 GAL	8	2/L-2.2	LOW
	EREMOPHILA BIGNONIFOLIA X POLYCLADA	1 GAL	1	2/L-2.2	LOW
EB	EREMOPHILA GLABRA 'KALGOORLIE' GOLD EMU BUSH	1 GAL	1	2/L-2.2	LOW
	EREMOPHILA NIVEA SILKY EREMOPHILA	1 GAL	1	2/L-2.2	LOW
	EUPHORBIA INGENS CANDELABRA TREE	15 GAL	1	2/L-2.2	LOW
	FRANGULA C. 'MOUND SAN BRUNO' COFFEEBERRY	1 GAL	1	2/L-2.2	LOW
	GAZANIA HYBRID (MIXED COLORS) GAZANIA	6" POTS	18	2/L-2.2	LOW
G	GREVILLEA 'BONFIRE' BONFIRE GREVILLEA	1 GAL	1	2/L-2.2	LOW
	GREWIA CAFFRA STAR FLOWER	15 GAL (ESPALIER)	4	2/L-2.2	LOW
JP	JUNCUS PATENS COMMON RUSH	1 GAL	12	2/L-2.2	LOW
K	KNIPHOFIA GALIPINII TORCH LILY	5 GAL	1	2/L-2.2	LOW
	PENSTEMON HETEROPHYLLUS FOOTHILL PENSTEMON	1 GAL	13	2/L-2.2	LOW
	SALVIA 'CLEVELANDII' CALIFORNIA BLUE SAGE	1 GAL	6	2/L-2.2	LOW
	STIPA (NASSELLA) TENUISSIMA MEXICAN FEATHERGRASS	1 GAL	11	2/L-2.2	LOW

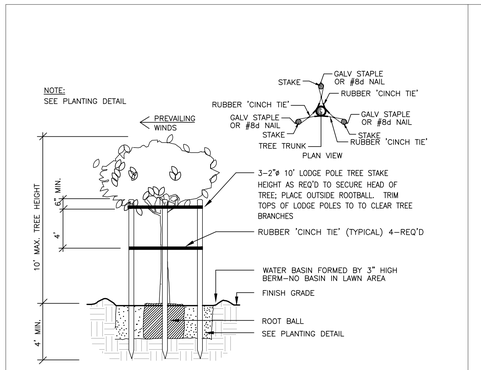
GROUND COVER

SYMBOL	DESCRIPTION	WUCOLS RATING	DETAILS REF.
	RENOVATED LAWN SEE SPECIFICATIONS	HIGH	N/A
	CRUSHED ROCK GRAVEL OVER WEED FABRIC	N/A	4/L-2.2
	DECORATIVE ROCK MULCH 3/8" DEL RIO STONE OVER WEED FABRIC	N/A	N/A
	3" THICK LAYER OF AGROMIN "COVER MULCH" OVER WEED FABRIC	N/A	N/A

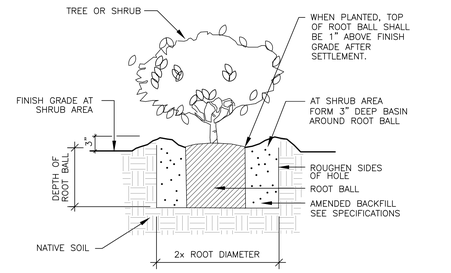
PLANT LEGEND – TREES

SYMBOL	BOTANICAL NAME COMMON NAME QUANTITY SIZE WUCOLS RATING	DETAIL REF.
	(e) TREE REMOVAL	2
	(e) TREE	N/A
	AURCARIA HETEROPHYLLA NORFOLK ISLAND PINE 24" BOX 1 M	1/L-2.2
	CERCIS OCCIDENTALIS WESTERN REDBUD 24" BOX 3 M	1/L-2.2

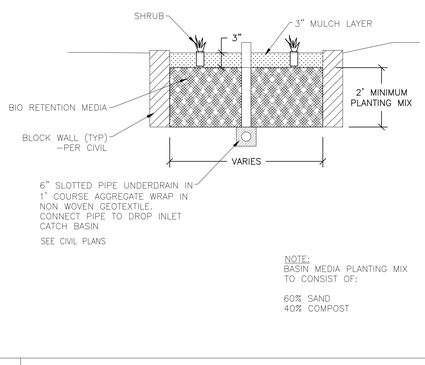
ROOT BARRIER



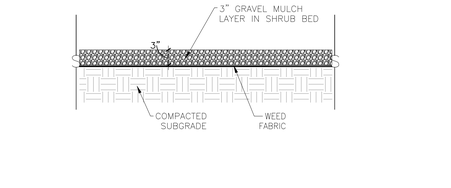
1 TREE STAKING NTS



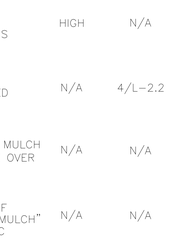
2 SHRUB PLANTING NTS



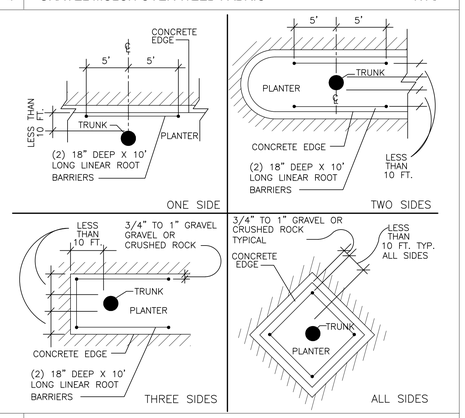
3 BIO-RETENTION BASIN W/ MULCH NTS



4 GRAVEL MULCH OVER WEED FABRIC NTS



5 2X4 HEADER BOARD NTS



6 ROOT BARRIER

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MOORPARK COLLEGE

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PROJECT TITLE AND SCHOOL LOCATION

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STAMPS/SEALS

REGISTERED LANDSCAPE ARCHITECT
PAUL J. JORDAN
No. 2001
02/29/08
RENEWAL DATE
11/01/24
STATE OF CALIFORNIA

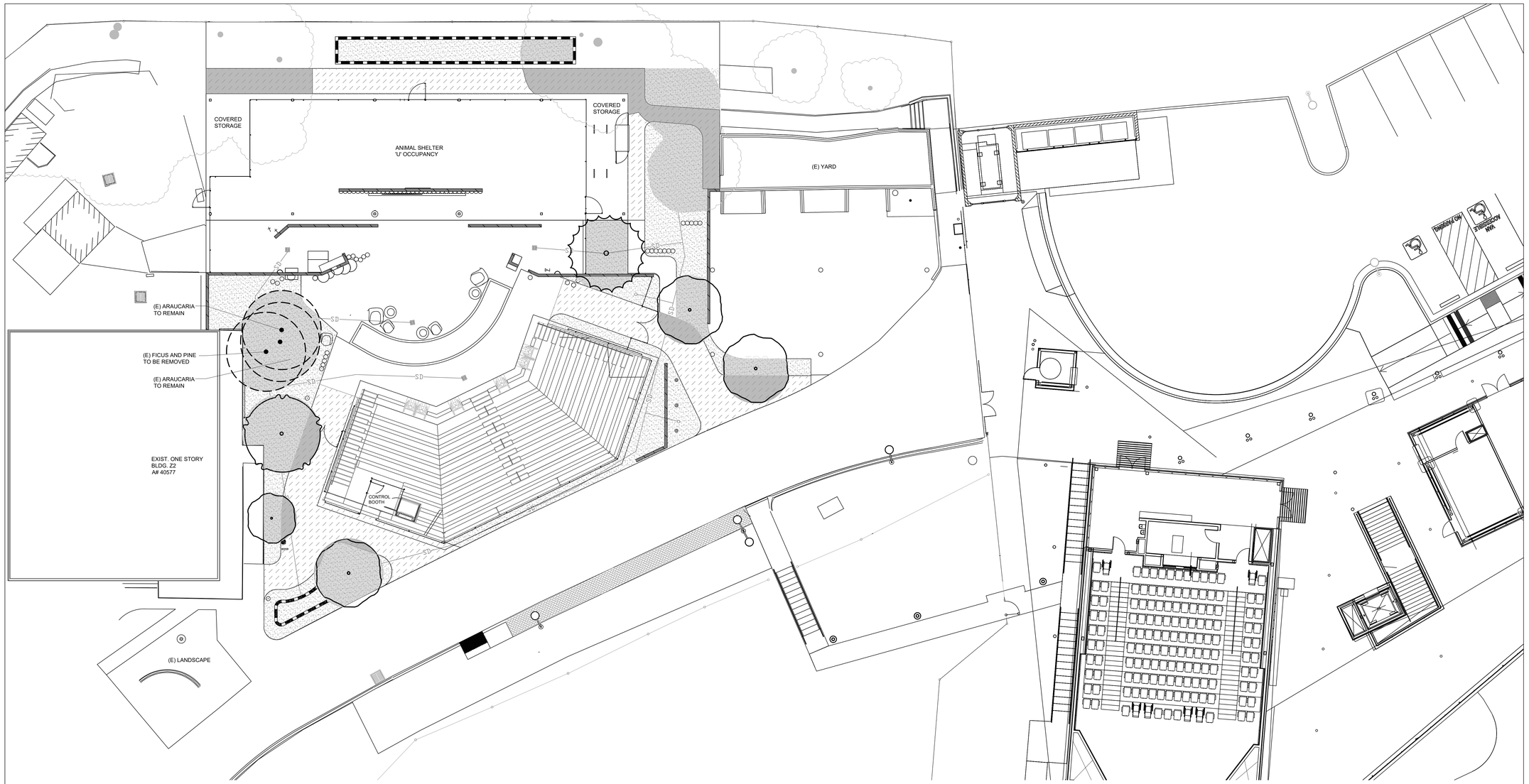
SHEET TITLE:

PLANTING LEGEND

PROJECT NO: 21-MPC-040
PROJECT ARCH:
DRAWN: PJ
CHECKED:
SHEET NUMBER:

L2.2

DATE: 11/11/24
SHEET: ___ OF ___



SHADE PLAN | 1" = 10'-0" | 1

NEW CONCRETE PAVING (2,205 S.F.)

TREE SHADE - AT NEW CONCRETE PAVING

TREE SHADE - AT NEW PLANTING AREA

SHADE TREES [DSA-AA] - CALGREEN CODE 5.106.12

PAVING AREA SHADE CALCULATIONS

TOTAL NEW PAVING (CONCRETE) = 2,205 sf

SHADE COVERAGE (TREE CANOPY) = 698 sf

TOTAL SHADE= 698 sf

32% SHADE COVERAGE (TREE CANOPY ONLY)
20% REQUIRED (SHADE MET)

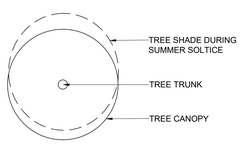
LANDSCAPE AREA SHADE CALCULATIONS

TOTAL NEW LANDSCAPING AREA = 3,149 sf
SHADE = 1,556 sf

49% SHADE COVERAGE
20% REQUIRED (SHADE MET)

NOTE:

ACTIVE SPORTS FIELDS ARE EXEMPT FROM SHADE CALCULATIONS PER CAL GREEN STANDARDS



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PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

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MOORPARK, CA 91320

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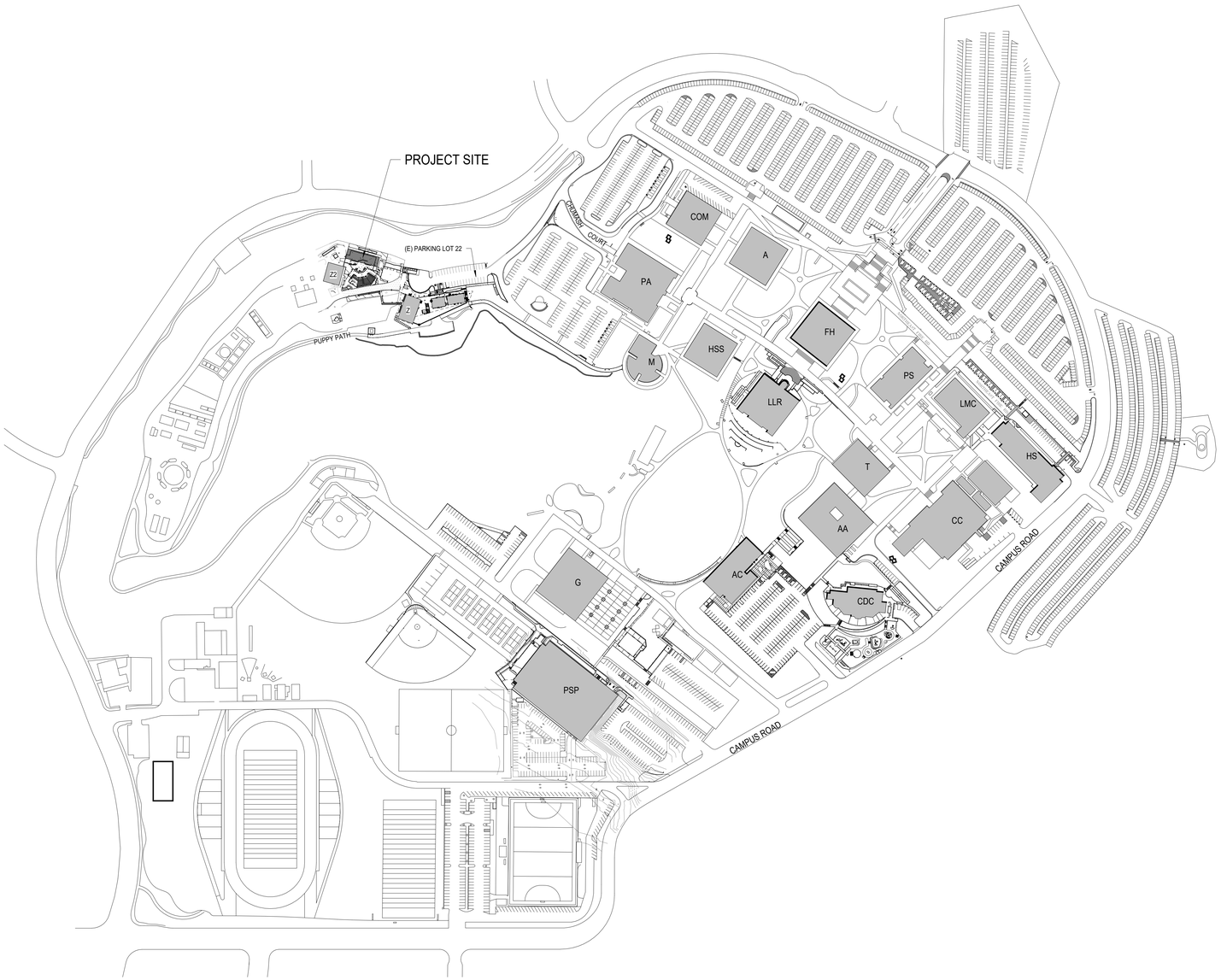
STAMPS/SEALS

REGISTERED LANDSCAPE ARCHITECT PAUL JOSEPH 4343 12/2026 RENEWAL DATE STATE OF CALIFORNIA

SHEET TITLE:

PRELIMINARY SHADE PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: PJ	CHECKED:
SHEET NUMBER: L3.1	
DATE: 11/11/24	SHEET: ___ OF ___



NORTH

CAMPUS SITE PLAN | 1" = 160'-0" | 1

BUILDINGS LEGEND

BUILDING	A#	CERTIFICATION DATE
A – ADMINISTRATION	A#27079	01/23/1979
AA – APPLIED ARTS	A#27214	01/20/1969
AC – ACADEMIC CENTER	A#03-110305	01/05/2015
CC – CAMPUS CENTER	A#27214	01/20/1969
CDC – CHILD DEVELOPMENT CENTER	A#03-107539	07/29/2010
COM – COMMUNICATIONS	A#51411	02/09/1995
FH – FOUNTAIN HALL	A#03-108616	07/03/2013
HS – HEALTH SCIENCE	A#03-111305	12/12/2012
HSS – HUMANITIES / SOCIAL SCIENCE	A#35424	02/05/1976
LLR – LIBRARY / LEARNING SOURCES	A#03-104726	11/20/2012
LMC – LIFE / MATH / COMPUTER SCIENCE	A#27214	01/20/1969
M – MUSIC	A#35424	02/05/1976
MO – MAINTENANCE / OPERATIONS	A#27079	01/23/1969
O – OBSERVATORY	A#47124	04/05/1989
PA – PERFORMING ARTS	A#57288	08/08/1999
PS – PHYSICAL SCIENCE	A#27214	01/20/1969
SS – STUDENT SERVICES	A#40577	12/12/1978
T – TECHNOLOGY / BUSINESS	A#31714	06/16/1971
G – GYMNASIUM	A#27349	08/21/1968
Z – ZOO (EATM)	A#03-111321	05/23/2013
Z2- EATM	A#40577	
PSP – PARKING STRUCTURE / POLICE STATION	A#03-114024	11/15/2016

LEGEND

- ACCESSIBLE PATH OF TRAVEL LEADING TO THE PUBLIC WAY- SEE GENERAL NOTE #2
- EGRESS (NON ACCESSIBLE) PATH OF TRAVEL TO SAFE DISPERSAL AREA
- CONCRETE SIDEWALK
- DECOMPOSED GRANITE (DG) WITH STABILIZER
- TRUNCATED DOMES MAT, SEE 13/A501
- PLANTER, SEE LANDSCAPE DWGS.
- (E)FH (E) FIRE HYDRANT
- BLDG EXISTING BUILDINGS - NOT PART OF SCOPE OF WORK
- STRUCTURE AREA OF WORK
- ASPHALT PAVING
- CHAIN LINK FENCE
- WIRE MESH FENCE
- 27 BOULDER DIAMETER OF BOULDER
- LIGHT STANDARDS, SEE E301

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PROJECT TITLE AND SCHOOL LOCATION

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MOORPARK, CA 91320

COMMISSIONED ARCHITECT

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LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

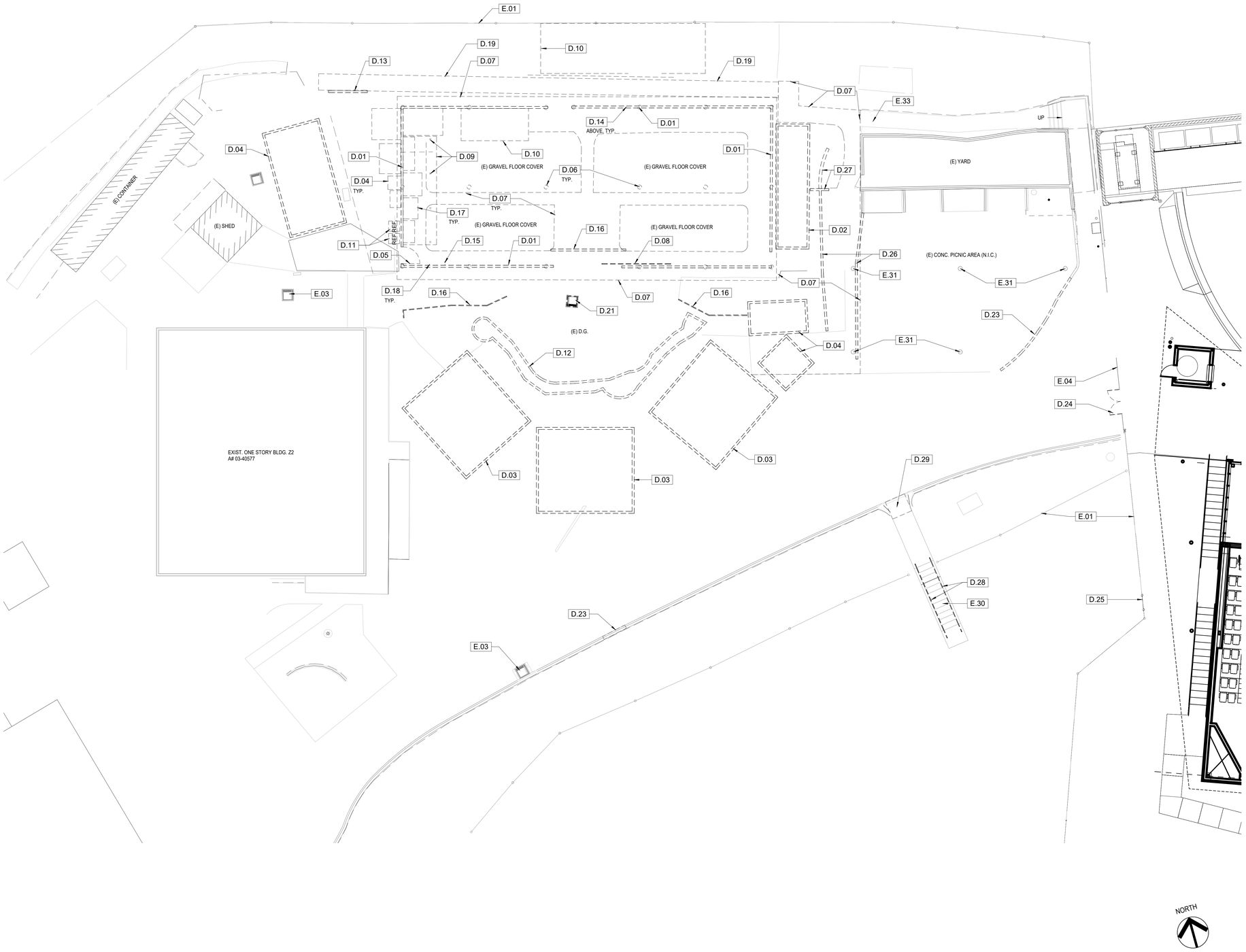
SHEET TITLE:

CAMPUS SITE PLAN

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: GW | CHECKED:
SHEET NUMBER:

A101

DATE: 6/19/25 | SHEET: ___ OF ___



KEYNOTES

D.01	DEMOLISH (E) WOOD BOARDS & SLAT SIDING, COLUMNS, BEAMS & WD. SLAT ROOFING
D.02	REMOVE (E) CONTAINER
D.03	DEMOLISH (E) TENT STRUCTURE, POSTS & BLEACHERS
D.04	DEMOLISH (E) SHED
D.05	DEMOLISH (E) WOOD GATE
D.06	DEMOLISH (E) WOOD POST
D.07	DEMOLISH (E) CONCRETE SIDEWALK
D.08	DEMOLISH (E) SLIDING WOOD GATE
D.09	DEMOLISH (E) WOOD POSTS, STRUCTURE AND CORRUGATED FIBERGLASS COVER
D.10	DEMOLISH (E) PEN
D.11	REMOVE AND SALVAGE (E) REFRIGERATOR
D.12	DEMOLISH (E) CONC. WATER FEATURE
D.13	DEMOLISH (E) STORAGE RACKS
D.14	DEMOLISH (E) LIGHT FIXTURES THROUGHOUT
D.15	DEMOLISH (E) HOSE BIB
D.16	DEMOLISH (E) WALL
D.17	DEMOLISH (E) ANIMAL ENCLOSURES
D.18	DEMOLISH (E) ELEC. CONDUITS
D.19	DEMOLISH (E) PAVERS
D.21	DEMOLISH (E) DRAINAGE GRATE, SEE CIVIL DWGS.
D.23	DEMOLISH PORTION OF (E) CONC. CURB
D.24	REMOVE (E) GATES AND REVERSE SWING TOWARDS PARKING LOT
D.25	DEMOLISH PORTION OF (E) CHAIN LINK FENCE TO INSTALL SIDEWALK
D.26	DEMOLISH (E) WOOD FENCE
D.27	DEMOLISH (E) CMU WALL
D.28	DEMOLISH (E) STL. RAILINGS
D.29	DEMOLISH PORTION OF (E) CONC. CURB AND SIDEWALK
E.01	(E) CHAIN LINK FENCE
E.03	(E) CATCH BASIN
E.04	(E) STEEL FENCE AND GATES
E.30	(E) CONC. STAIR
E.31	(E) WOOD POST
E.33	(E) CONC. SIDEWALK

DEMOLITION NOTES:

1. ALL EXISTING FURNITURE, FIXTURES AND EQUIPMENT SHALL BE REMOVED AND STORED AS REQUIRED TO ACCOMODATE THE NEW IMPROVEMENTS. COORDINATE REMOVAL WITH THE VCCC PROJECT MANAGER.
2. EXECUTE ALL DEMOLITION REQUIRED FOR COMPLETION OF THE WORK. CONFORM WITH CBC/CFC CHAPTER 33 PROVISIONS.
3. REMOVE OR RELOCATE EXISTING POWER, TELECOM, DATA ETC. AS REQUIRED TO ACCOMODATE THE NEW IMPROVEMENTS - SEE ELECTRICAL DRAWINGS FOR SCOPE OF ELECTRICAL DEMOLITION WORK.
4. SEE MECHANICAL PLANS FOR SCOPE OF MECHANICAL DEMOLITION WORK.
5. REMOVE EXISTING FLOOR AND WALL FINISHES. PATCH AS REQUIRED TO ACCOMMODATE NEW IMPROVEMENTS.
6. REMOVE EXISTING SPRAY APPLIED FIREPROOFING AT ALL BEAMS.
7. CAREFULLY REMOVE EXISTING EXAM ROOM ACCESSORIES (SHARPS DISPENSER, PAPER TOWEL DISPENSERS, ETC.) AND REINSTALL IN NEW EXAM ROOMS.

DEMOLITION LEGEND

- EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING MORTAR SETTING BED TO BE DEMOLISHED
- EXISTING CONC. CURB TO BE DEMOLISHED
- AREA OF EXISTING 5/8" DEPRESSED SLAB
- EXISTING VINYL ASBESTOS TO BE DEMOLISHED

HAZARDOUS MATERIALS NOTES

1. THIS PROJECT INCLUDES THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS INCLUDING, BUT NOT LIMITED TO, ASBESTOS AND LEAD BASED PAINT. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF HAZARDOUS MATERIALS IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. A LISTING OF KNOWN HAZARDOUS MATERIALS AS WELL AS A WORK PLAN FOR ITS REMOVAL, PREPARED BY THE OWNER'S SEPARATE CONSULTANT, IS INCLUDED IN THE PROJECT MANUAL.
2. FIREPROOFING: CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL FIREPROOFING REMOVED FROM THE PROJECT AS A HAZARDOUS MATERIAL WITH NEW FIREPROOFING TO ACHIEVE THE REQUIRED HOURLY RATINGS INDICATED IN REMODELED BUILDING CODE ANALYSIS ON SHEET G002.

DEMOLITION SITE PLAN | 1" = 10'-0" | 1

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C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

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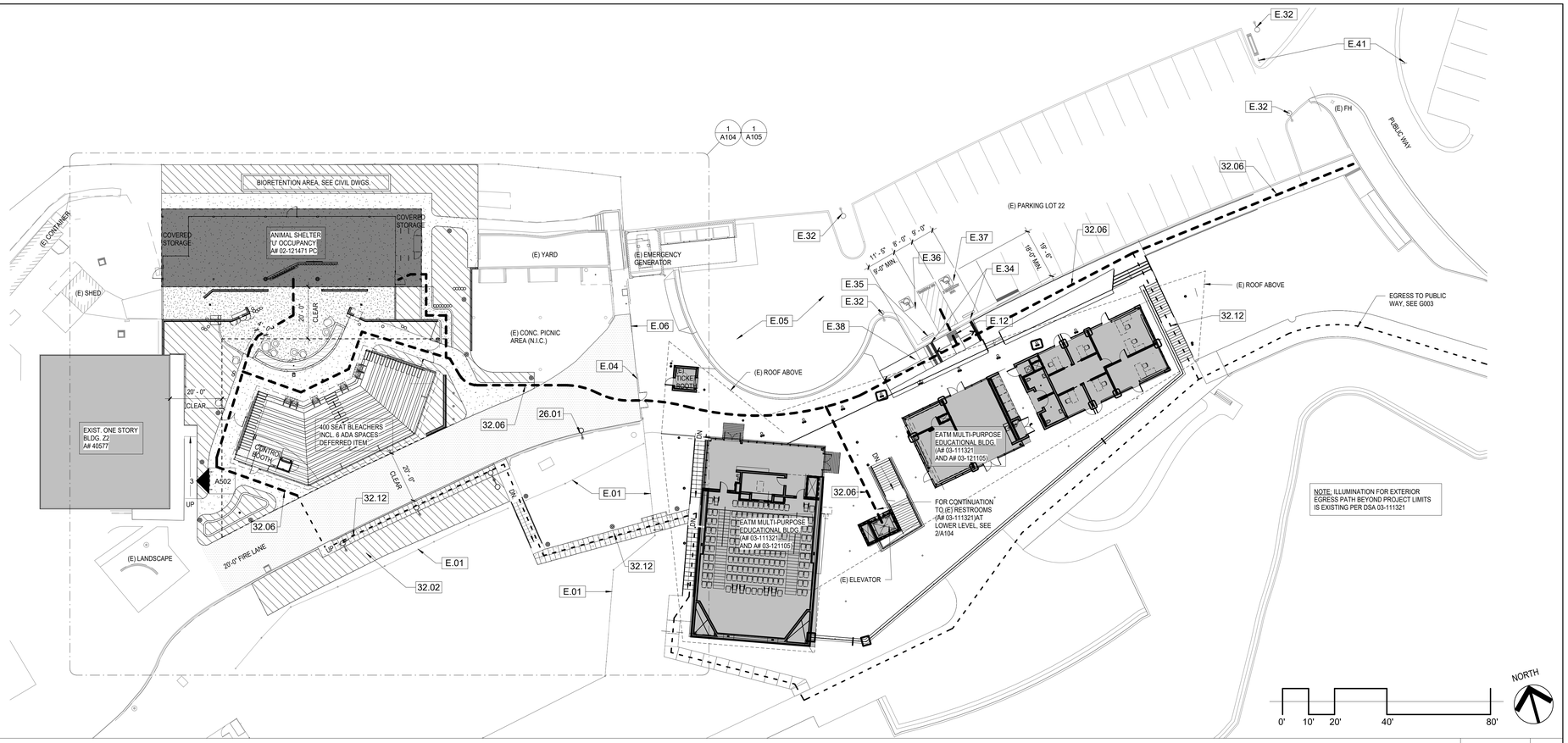
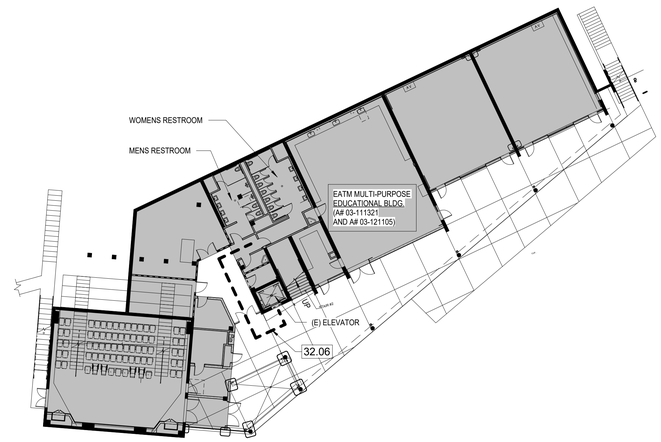
DEMOLITION SITE PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: GW	CHECKED:
SHEET NUMBER: A102	
DATE: 6/19/25	SHEET: ___ OF ___



SITE PLAN | 1" = 20'-0" | 1



(E) EATM MULTI-PURPOSE BLDG. LOWER LEVEL | 1" = 20'-0" | 2

CODE ANALYSIS

ANIMAL SHELTER - U OCCUPANCY, TYPE V-U-NS CONSTRUCTION, 3,000 S.F.
(BASIC ALLOWABLE TABLE 506.2 - 5,500 S.F.)
MAXIMUM HEIGHT: 1-STORY (TABLE 504.4)

BLEACHERS - 15 OCCUPANCY, TYPE V-AS-NS CONSTRUCTION, 471 OCCUPANTS AND 2,730 S.F.
(BASIC ALLOWABLE TABLE 506.2 - UL S.F.)

ALL STRUCTURES ARE SEPARATED BY MINIMUM 20 FEET

BLEACHERS TO BE DEFERRED APPROVAL

PARKING CALCS.

TABLE 11B-208.2 (2022 CBC)

EXISTING PARKING LOT ANALYSIS:

TOTAL PARKING SPACES	35
TOTAL ACCESSIBLE REQUIRED	1
TOTAL ACCESSIBLE PROVIDED	2
TOTAL VAN REQUIRED	1
TOTAL VAN PROVIDED	1

BICYCLE PARKING

STUDENTS:	
REQUIRED	PROVIDED
(4) 2 BIKE CAPACITY RACKS	(4) 2 BIKE CAPACITY RACKS
STAFF:	
REQUIRED	PROVIDED
2 BIKE COVERED ENCLOSURE	2 BIKE COVERED ENCLOSURE

LEGEND

- ACCESSIBLE EGRESS PATH OF TRAVEL & ACCESSIBLE PATH OF TRAVEL LEADING TO THE PUBLIC WAY- SEE GENERAL NOTE #2
- EGRESS (NON ACCESSIBLE) PATH OF TRAVEL TO SAFE DISPERSAL AREA
- CONCRETE SIDEWALK
- DECOMPOSED GRANITE (DG) WITH STABILIZER
- TRUNCATED DOMES MAT, SEE 13/A501
- PLANTER, SEE LANDSCAPE DWGS.
- (E)FH (E) FIRE HYDRANT
- BLDG EXISTING BUILDINGS - NOT PART OF SCOPE OF WORK
- STRUCTURE AREA OF WORK
- ASPHALT PAVING
- CHAIN LINK FENCE
- WIRE MESH FENCE
- 27 BOULDER DIAMETER OF BOULDER
- LIGHT STANDARDS, SEE E301

NOTES

1. ALL ITEMS SHOWN ARE NEW UNLESS NOTED AS EXISTING.
2. PATH OF TRAVEL (P.O.T.) AND ACCESSIBLE ROUTE OF TRAVEL AS INDICATED IS A COMMON BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE. EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. THE SURFACE SHALL BE SLIP RESISTANT, STABLE AND FIRM. PASSING SPACES AT LEAST 60" x 60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS CROSS-SLOPE GREATER THAN 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL. SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (2016 CBC 11B-405.2). THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDING. PROVIDE 6" HIGH WARNING CURB IF HIGHER THAN 4". P.O.T. SHALL BE MAINTAINED FREE OF OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-403.
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4. CMU SHALL BE ANGELUS BLOCK, COLOR: TAN

KEYNOTES

26.01	LIGHT STANDARD, SEE E301
32.02	PLANTING AREA, SEE L2.1
32.06	ACCESSIBLE PATH OF TRAVEL
32.12	EGRESS (NON-ACCESSIBLE) PATH OF TRAVEL
E.01	(E) CHAIN LINK FENCE
E.04	(E) STEEL FENCE AND GATES
E.05	(E) A/C PAVING
E.06	(E) ROLLING GATE
E.12	(E) TACTILE WARNING STRIP
E.32	(E) LIGHT STANDARD
E.34	(E) ACCESSIBLE PARKING SIGN
E.35	(E) CONC. WHEEL STOP
E.36	(E) ACCESSIBLE PARKING SPACE
E.37	(E) VAN ACCESSIBLE PARKING SPACE
E.38	(E) CONC.RAMP W/ 1:12 SLOPE MAX.
E.41	(E) ACCESSIBLE TOW AWAY SIGN, SEE 4/A802

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APP: 03-124777 INC:
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DATE: 06/19/2025

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ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
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CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT — LUCAS A. AMADOR — C 37401 — 12-31-2025 RENEWAL DATE — STATE OF CALIFORNIA

SHEET TITLE:

SITE PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: GW	CHECKED:
SHEET NUMBER: A103	
DATE: 6/19/25	SHEET: ___ OF ___



KEYNOTES

3.01	CONCRETE SIDEWALK, SEE CIVIL DWGS.
3.02	CONCRETE SLAB. SEE C101
3.03	CONCRETE PAVER CURB CUT W/ LESS THAN 5% SLOPE MAX.
3.05	CONCRETE PAVERS, SEE 1/L2.1
3.06	CONCRETE LANDING
3.07	CONCRETE CURB, SEE CIVIL DWGS.
3.08	6" W. CONCRETE EDGE FLUSH W/ DG, SEE F/C102
4.01	8" THK. CMU WALL W/ "STONE VENEER" ON (1) SIDE, SEE 6/S012
4.04	8" THK. x 6'-0" HIGH CMU WALL W/ "STONE VENEER" ON BOTH SIDES, SEE 6/S012
4.05	8" THK. CMU WALL, SEE 6/S012
5.02	6'-0" STEEL MESH FENCE, SEE 6, 7/A502
5.06	MTL. ROOF, SEE SHADE STRUCTURE MFR. DWGS.
5.08	DRINKING FOUNTAIN WING GUARDS, BOTH SIDES OF D.F.
5.09	PROVIDE STL. RAILINGS AT (E) STAIR
5.11	STEEL MESH FENCE TO UNDERSIDE OF BLEACHERS
6.01	DECORATIVE WOOD POST, SEE 9/A502
6.03	1'-6" DIA. WOOD SURROUND
6.04	FAUX STONE FINISH SHELVES, STEPS AND WALL FINISH
6.05	12" DIA. DECORATIVE HALF-ROUND WOOD POSTS ATTACHED TO CMU WALL
6.06	
8.04	3'-0" x 7'-0" CHAIN LINK GATE WITH PANIC HARDWARE & ALARM, SEE 9/A501
8.06	PAIR 8'-0" x 7'-0" STEEL MESH GATES WITH PANIC HARDWARE, SEE 14/A501
8.07	RE-USE AND REINSTALL (E) STEEL GATES TO SWING TOWARDS EXIT PATH; PROVIDE PANIC HARDWARE, SEE 14/A501
11.02	LARGE SCREEN EXTERIOR RATED MONITOR; OWNER FURNISHED/ OWNER INSTALLED
11.03	FLAT SCREEN EXTERIOR RATED MONITOR; OWNER FURNISHED/ OWNER INSTALLED
12.02	BLEACHERS BY BLEACHER MFR.
12.03	BICYCLE RACK W/ CROSS BAR, STANDARD BLACK PLASTISOL, IN GROUND MOUNT MODEL #12727
12.04	BICYCLE STORAGE UNIT; ECOPARK STANDARD MODEL, 2 DOOR, SANDSTONE, RAL 1018, T-HANDLE, KEYED
14.01	ACCESSIBLE LIFT TO CONTROL BOOTH (PART OF BLEACHER DEFERRED APPROVAL); SEE 2,3/A105 FOR ACCESSIBLE CLEARANCES
22.01	HOSE BIB. SEE P301
22.02	TRIPLE FREE STANDING DRINKING FOUNTAIN W/ HI-LO & BOTTLE FILLER
22.03	FILL & DRAIN VALVE, SEE PLUMB. DWGS.
22.04	WATER FEATURE DRAIN, SEE PLUMB. DWGS.
26.01	LIGHT STANDARD, SEE E301
26.02	IN GRADE UPLIGHTS, SEE E301
26.05	STEP LIGHT, SEE E301
26.07	ELEC. PANEL, SEE 1/E410
32.02	PLANTING AREA, SEE L2.1
32.03	WATER FEATURE, SEE 5/A502
32.04	BOULDER, SEE 2/L2.1
32.05	DECOMPOSED GRANITE (DG), SEE 2/L2.1
32.07	RESURFACE (E) FIRE LANE
32.08	PROVIDE A/C PAVING UNDER ENTIRE BLEACHER STRUCTURE, SEE C101
32.09	8" THK. CMU WALL, SEE N/C102
32.14	CONC. WALL AT BIORETENTION AREA, SEE J/C102
33.01	CATCH BASIN, SEE I/C102
33.02	YARD BOX
E.01	(E) CHAIN LINK FENCE
E.03	(E) CATCH BASIN
E.30	(E) CONC. STAIR
E.31	(E) WOOD POST
E.33	(E) CONC. SIDEWALK
E.39	(E) CONC. LANDING
E.40	(E) CONC. CURB
E.42	(E) ROLLING GATE- EMERGENCY ACCESS AND SERVICE VEHICLES

LEGEND

- ACCESSIBLE PATH OF TRAVEL LEADING TO THE PUBLIC WAY- SEE GENERAL NOTE #2
- EGRESS (NON ACCESSIBLE) PATH OF TRAVEL TO SAFE DISPERSAL AREA
- CONCRETE SIDEWALK
- DECOMPOSED GRANITE (DG) WITH STABILIZER
- TRUNCATED DOMES MAT, SEE 13/A501
- PLANTER, SEE LANDSCAPE DWGS.
- (E)FH (E) FIRE HYDRANT
- BLDG EXISTING BUILDINGS - NOT PART OF SCOPE OF WORK
- STRUCTURE AREA OF WORK
- ASPHALT PAVING
- CHAIN LINK FENCE
- WIRE MESH FENCE
- 27 BOULDER DIAMETER OF BOULDER
- LIGHT STANDARDS, SEE E301

NOTES

1. ALL ITEMS SHOWN ARE NEW UNLESS NOTED AS EXISTING.
2. PATH OF TRAVEL (P.O.T.) AND ACCESSIBLE ROUTE OF TRAVEL AS INDICATED IS A COMMON BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. THE SURFACE SHALL BE SLIP RESISTANT, STABLE AND FIRM. PASSING SPACES AT LEAST 60" x 60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS CROSS-SLOPE GREATER THAN 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL. SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (2016 CBC 11B-405.2). THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDING. PROVIDE 6" HIGH WARNING CURB IF HIGHER THAN 4". P.O.T. SHALL BE MAINTAINED FREE OF OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-403.
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4. CMU SHALL BE ANGELUS BLOCK, COLOR: TAN

BICYCLE PARKING

STUDENTS:

REQUIRED	PROVIDED
(4) 2 BIKE CAPACITY RACKS	(4) 2 BIKE CAPACITY RACKS

STAFF:

REQUIRED	PROVIDED
2 BIKE COVERED ENCLOSURE	2 BIKE COVERED ENCLOSURE

CODE ANAYLYSIS:
OCCUPANCY TYPE: A-5
CONSTRUCTION TYPE: V-B
ALLOWABLE HEIGHT: 40' (TABLE 504.3)
ACTUAL HEIGHT: 24'
ALLOWABLE AREA: UL (TABLE 506.2)
ACTUAL AREA: 2,497 SF (INCLUDING ROOF OVERHANG)

BLEACHER CODE ANALYSIS PER 1CC 300 - 2017
420 OCCUPANT AT 18" PER OCCUPANT
TWO EXITS REQUIRED (ICC 300, 404.1)
AISLE WIDTH REQUIRED 420 X 0.080 = 33.6" (ICC 300, 404.5(3))
AISLE WIDTH PROVIDED = 144"
GATE WIDTH REQUIRED = 420 X 0.060 = 25.2" (ICC 300, 404.5(3))
GATE WIDTH PROVIDED = 126"

UPPER LEVEL BLEACHER PLAN

NORTH

0 4' 8' 16'

ENLARGED SITE PLAN | 1/8" = 1'-0" | 1

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CONSULTANT

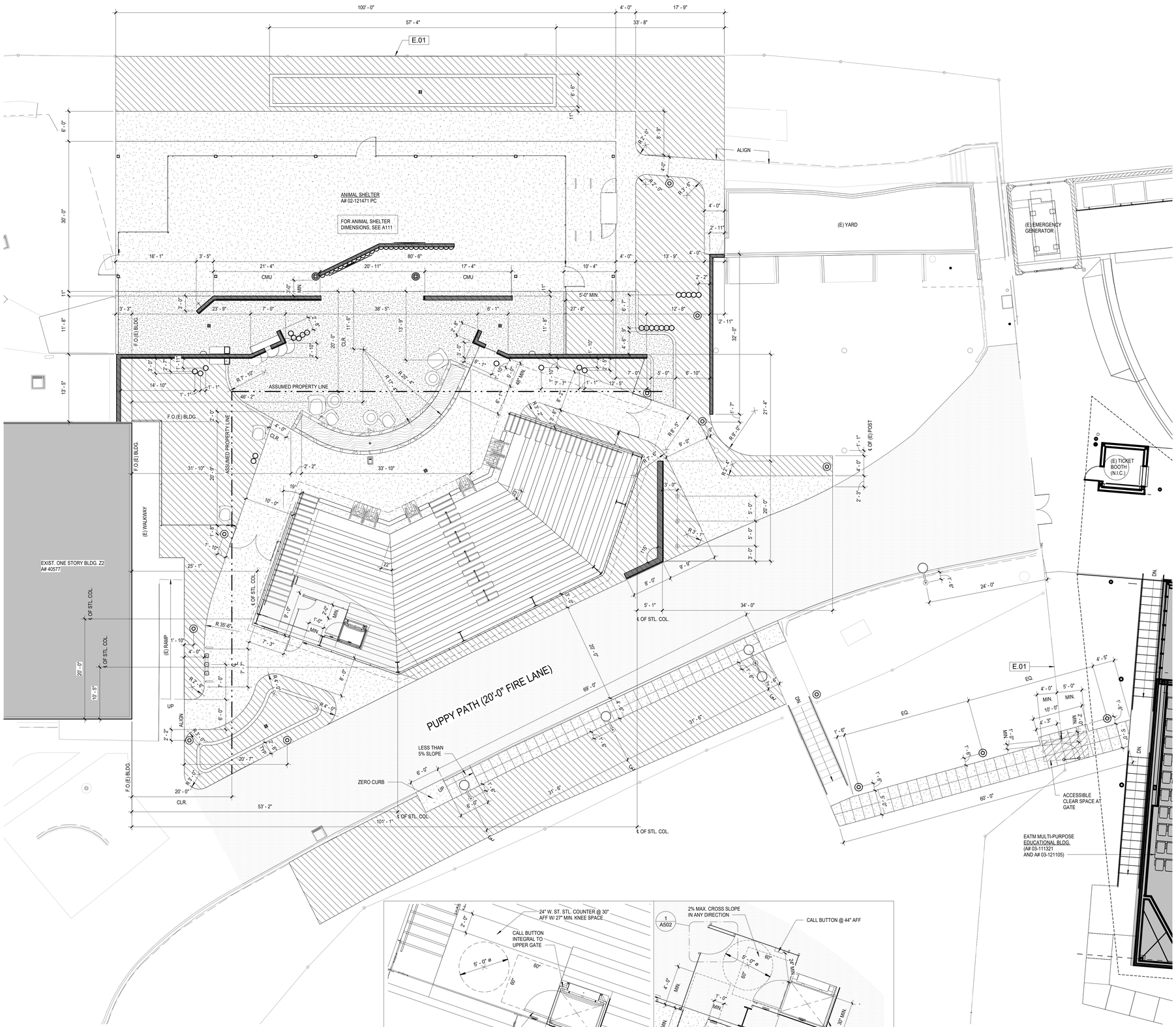
STAMPS/SEALS

LICENSED ARCHITECT
NICHOLAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

ENLARGED SITE PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN:	CHECKED:
SHEET NUMBER: A104	
DATE: 6/19/25	SHEET: ___ OF ___



UPPER LEVEL ACCESSIBLE PLATFORM PLAN | 1/4" = 1'-0" | 3

LOWER LEVEL ACCESSIBLE PLATFORM PLAN | 1/4" = 1'-0" | 2

ENLARGED SITE DIMENSION PLAN | 1/8" = 1'-0" | 1

KEYNOTES

E.01 (E) CHAIN LINK FENCE

LEGEND

- ACCESSIBLE PATH OF TRAVEL LEADING TO THE PUBLIC WAY- SEE GENERAL NOTE #2
- EGRESS (NON ACCESSIBLE) PATH OF TRAVEL TO SAFE DISPERSAL AREA
- CONCRETE SIDEWALK
- DECOMPOSED GRANITE (DG) WITH STABILIZER
- TRUNCATED DOMES MAT, SEE 13/A501
- PLANTER, SEE LANDSCAPE DWGS.
- (E)FH (E) FIRE HYDRANT
- BLDG EXISTING BUILDINGS - NOT PART OF SCOPE OF WORK
- STRUCTURE AREA OF WORK
- ASPHALT PAVING
- CHAIN LINK FENCE
- WIRE MESH FENCE
- 27 BOULDER DIAMETER OF BOULDER
- LIGHT STANDARDS, SEE E301

WHEELCHAIR LIFT NOTES

1. LOWER CALL BUTTON SHALL BE AT LEAST 24" FROM ANY MOVING PARTS.
2. CONFIRM THAT A 32" x 48" CLEAR FLOOR SPACE IS AVAILABLE AT EACH CALL BUTTON.
3. CONFIRM THAT BOTH THE UPPER AND LOWER GATES HAVE AN 18" PULL SIDE CLEARANCE.
4. CONFIRM THAT THERE IS A 60" x 60" MINIMUM CLEAR FLOOR SPACE AT BOTH THE LOWER AND UPPER LANDINGS.
5. IF ENCLOSURE WALLS ARE PROVIDED, CONFIRM THERE IS A MINIMUM OF 2" AND A MAXIMUM OF 3" CLEARANCE BETWEEN THE LIFT AND SIDE WALLS. IF CLEARANCE IS GREATER THAN 3", IT MUST BE GREATER THEN 12" - SIDE WALL CLEARANCE CANNOT BE BETWEEN 3" AND 12".
6. IF HOISTWAY ENCLOSURE WALLS ARE PROVIDED, CONFIRM THERE ARE NO OBSTRUCTIONS WITHIN 12" OF THE PLATFORM LIFT ENCLOSURE IN ANY POSITION ALONG ITS VERTICAL RISE; THAT PRESENT A PINCHING, SHEARING OR CRUSHING HAZARD.
7. CONFIRM THERE IS A MAXIMUM DISTANCE OF 2 1/2" BETWEEN THE LIFT AND END WALL (OPPOSITE OF LIFT LOWER ENTRANCE).
8. CONFIRM THAT THE LOWER CALL BUTTON IS NOT ATTACHED TO THE LIFT. IT MUST BE ATTACHED TO AN ADJACENT WALL, NO HIGHER THAN 47" AFF, MEASURED TO THE TOP OF THE SINGLE-GANG HANDY BOX.
9. CONFIRM THAT THE UPPER LEVEL LANDING GATE IS UNOBSTRUCTED AND HAS AN INTEGRAL CALL BUTTON.
10. CONFIRM PROPER OPERATION OF SELF-CLOSING GATES. OPENING FORCE SHALL NOT EXCEED 5 LBS. AND GATE LATCHES SECURELY.
11. CONFIRM THAT THE PASSENGER CONTROL STATION INSIDE THE PLATFORM LIFT DOES NOT REQUIRE A KEY FOR OPERATION BY THE PASSENGER.
12. CONFIRM THAT THE LIFT HAS EMERGENCY PIT SWITCH FOR USE BY MAINTENANCE PERSONNEL (ROCKER SWITCH ON THE UNDERSIDE OF PLATFORM, RIGHT HAND CORNER).
13. IDENTIFY THE TYPE OF EMERGENCY LOWERING DEVICE.
14. CONFIRM PLATFORM LIFT IS ANCHORED TO THE CONCRETE SLAB.
15. AT LOWER LANDING, ON ALL OPEN SIDES OF THE LIFT, PROVIDE A REFLECTIVE RED PAINTED 2" WIDE SAFETY LINE THREE INCHES AWAY FROM THE LIFT.
16. CONFIRM UPS (UNINTERRUPTED POWER SOURCE) BATTERY BACKUP FOR EMERGENCY POWER WAS SHIPPED WITH THE LIFT UNIT.
17. OBSTRUCTIONS OR SURFACES THAT PRESENT A PINCHING, SHEARING, OR CRUSHING HAZARD; EXTENDING FROM THE LOWER LANDING TO A MINIMUM HEIGHT OF 42" ABOVE THE UPPER LANDING, ARE NOT PERMITTED WITHIN 12" OF THE PLATFORM.
18. INSTALL A 12" x 12" x 6" DEEP NEMA 3R BOX WITH A HINGED DOOR AND CAT 6D LOCK IN THE VICINITY OF THE LIFT MANUALS AND LOG BOOK. THE FOLLOWING ITEMS SHALL BE STORED IN THE BOX:
    - A. CONTRACTOR LOG BOOK. LOG BOOK SHALL INCLUDE SERVICE, MAINTENANCE, REPAIRS AND INSPECTION VISITS.
    - B. INSTRUCTION AND SERVICE MANUALS.
    - C. HANDLES FOR THE MANUAL LOWERING DEVICE.
    - D. USB FLASH DRIVE OF RECORDED OPERATIONAL TRAINING.
19. CONFIRM THAT A CERTIFICATE FRAME HAS BEEN INSTALLED ON AN EXPOSED SIDE OF THE LIFT FOR THE PURPOSE OF POSTING THE STATE ISSUED OPERATING PERMIT.
20. ARRANGE FOR A TWO-HOUR INSTRUCTION PERIOD IN OPERATING THE EQUIPMENT CORRECTLY AND SAFELY. PROVIDE VIDEO RECORDING OF THE TRAINING. THE RECORDING SHALL BE PLACED ON A USB FLASH DRIVE. PROVIDE ONE USB DRIVE TO THE SCHOOL ADMINISTRATOR AND PROVIDE A SECOND. USB DRIVE IN THE LOG BOX.

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LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

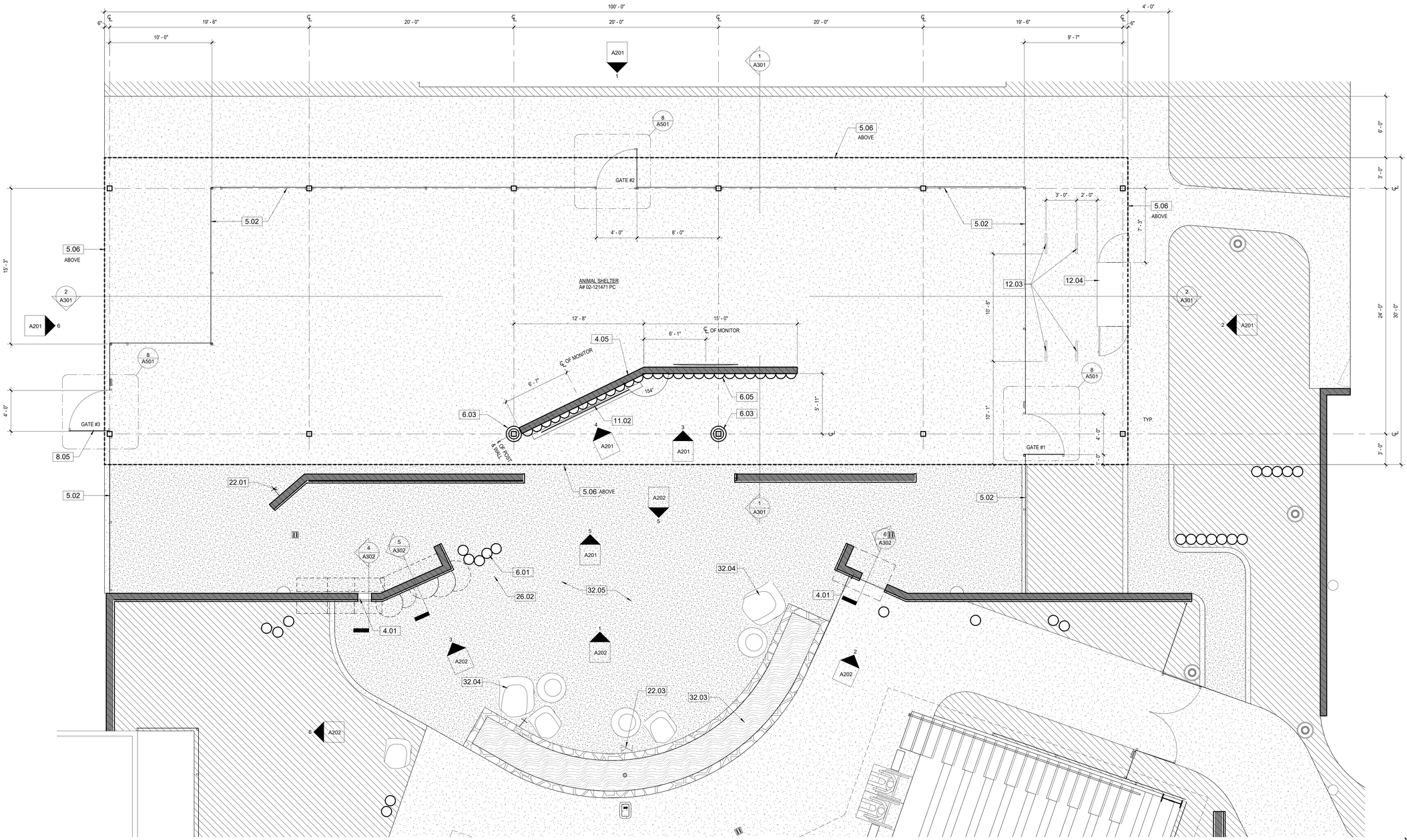
ENLARGED SITE DIMENSION PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

SHEET NUMBER:

A105

DATE: 6/19/25 | SHEET: ____ OF ____



ANIMAL SHELTER FLOOR PLAN | 1/4" = 1'-0" | 1

NOTES:

MINIMUM MANUEVERING CLEARANCES AT GATES SHALL BE LEVEL AND CLEAR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF THE DOOR SWING OF AT LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION. CBC 11B-404.2.4.

LEGEND

- EXISTING PARTITION
- MASONRY WALL
- STUD PARTITION
- LOW PARTITION
- CONCRETE TOPPING INFILL, SEE 5/A502 U.N.O.
- (#) PARTITION TYPE, SEE SHEET A502
- CG WALL CORNER GUARD, SEE 3/A502
- CERAMIC TILE ON MORTAR SETTING BED ON 2" DEPRESSED SLAB

KEYNOTES

4.01	8" THK. CMU WALL W/ "STONE VENEER" ON (1) SIDE, SEE 6/S012
4.05	8" THK. CMU WALL, SEE 6/S012
5.02	8'-0" STEEL MESH FENCE, SEE 6, 7/A502
5.06	MTL. ROOF, SEE SHADE STRUCTURE MFR. DWGS.
6.01	DECORATIVE WOOD POST, SEE 9/A502
6.03	1'-6" DIA. WOOD SURROUND
6.05	12" DIA. DECORATIVE HALF-ROUND WOOD POSTS ATTACHED TO CMU WALL
8.05	4'-0" x 7'-0" STEEL MESH GATE W/ PANIC HARDWARE, SEE 1/A502
11.02	LARGE SCREEN EXTERIOR RATED MONITOR; OWNER FURNISHED/ OWNER INSTALLED
12.03	BICYCLE RACK W/ CROSS BAR, STANDARD BLACK PLASTISOL, IN GROUND MOUNT MODEL #12727
12.04	BICYCLE STORAGE UNIT; ECOPARK STANDARD MODEL, 2 DOOR, SANDSTONE, RAL 1019, T-HANDLE, KEYED
22.01	HOSE BIB, SEE P301
22.03	FILL & DRAIN VALVE, SEE PLUMB. DWGS.
26.02	IN GRADE UPLIGHTS, SEE E301
32.03	WATER FEATURE, SEE 5/A502
32.04	BOULDER. SEE 2/L2.1
32.05	DECOMPOSED GRANITE (DG), SEE 2/L2.1

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LUCAS J. AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

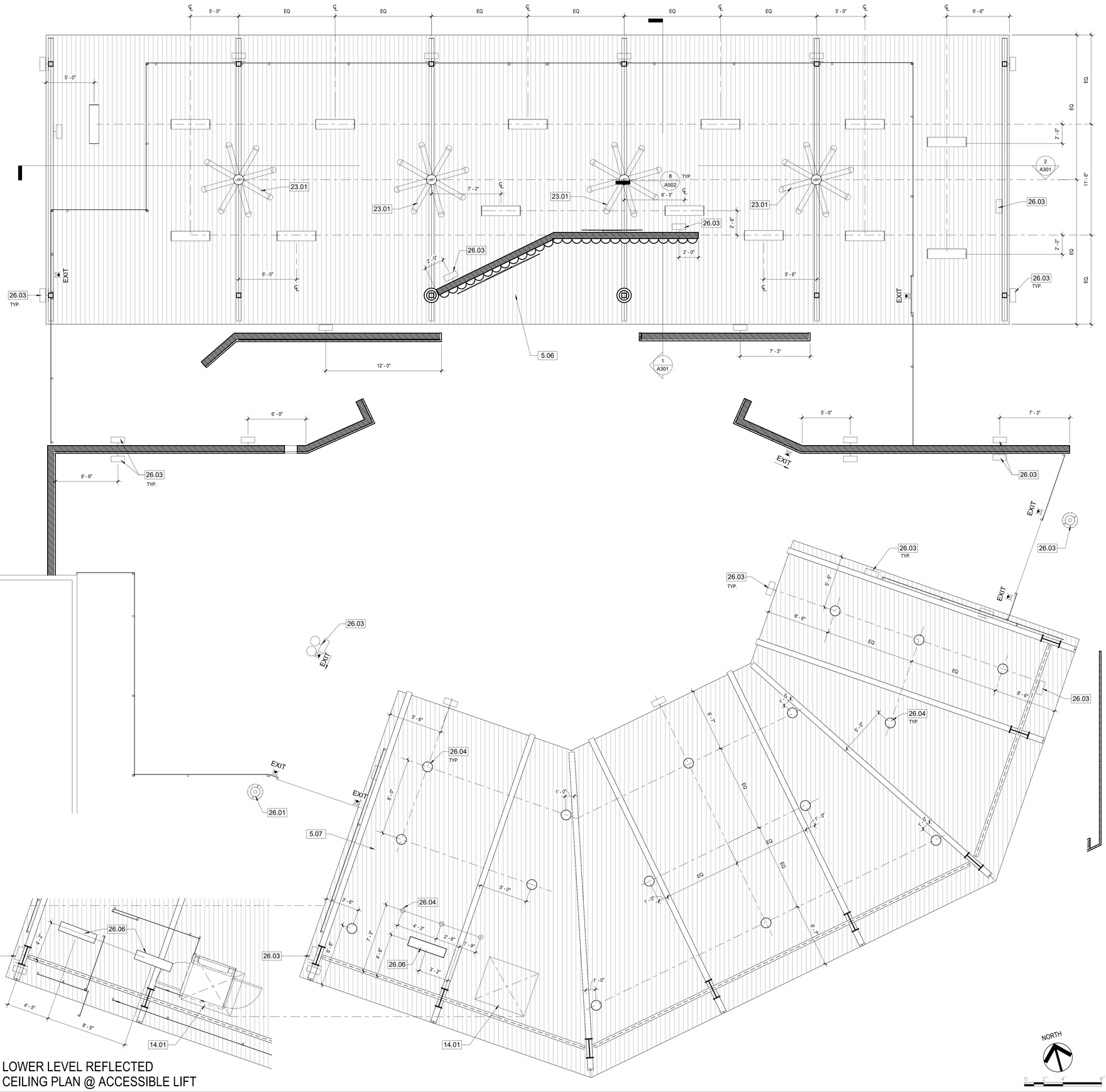
SHEET TITLE:

ANIMAL SHELTER FLOOR PLAN

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: GW | CHECKED:
SHEET NUMBER:

A111

DATE: 6/19/25 | SHEET: ___ OF ___



LOWER LEVEL REFLECTED CEILING PLAN @ ACCESSIBLE LIFT

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

KEYNOTES

5.06	MTL. ROOF, SEE SHADE STRUCTURE MFR. DWGS.
5.07	MTL. ROOF, SEE BLEACHER MFR. DWGS.
14.01	ACCESSIBLE LIFT TO CONTROL BOOTH (PART OF BLEACHER DEFERRED APPROVAL); SEE 2.9A105 FOR ACCESSIBLE CLEARANCES
23.01	8'-0" DIA. OVERHEAD FANS ATTACHED TO STL. CHANNEL BEAMS- MAX. WT. = 90 LBS., SEE 8/A502
26.01	LIGHT STANDARD, SEE E301
26.03	SURFACE MOUNTED LIGHT, SEE E301
26.04	DOWNLIGHT, SEE E301
26.06	SUSPENDED LIGHT FIXTURE, SEE E301

CEILING LEGEND

- SUSPENDED LIGHT FIXTURE, SEE ELEC. DWGS.
- EXIT — ILLUMINATED EXIT LIGHT, SEE ELEC. DWGS.
- SUSPENDED DOWNLIGHT FIXTURE, SEE ELEC. DWGS.
- SECURITY CAMERA
- LIGHT STANDARD, SEE E301
- LIGHT STANDARD, SEE E301
- SURFACE MOUNTED LIGHT FIXTURE, SEE E301
- OVERHEAD FAN

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PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

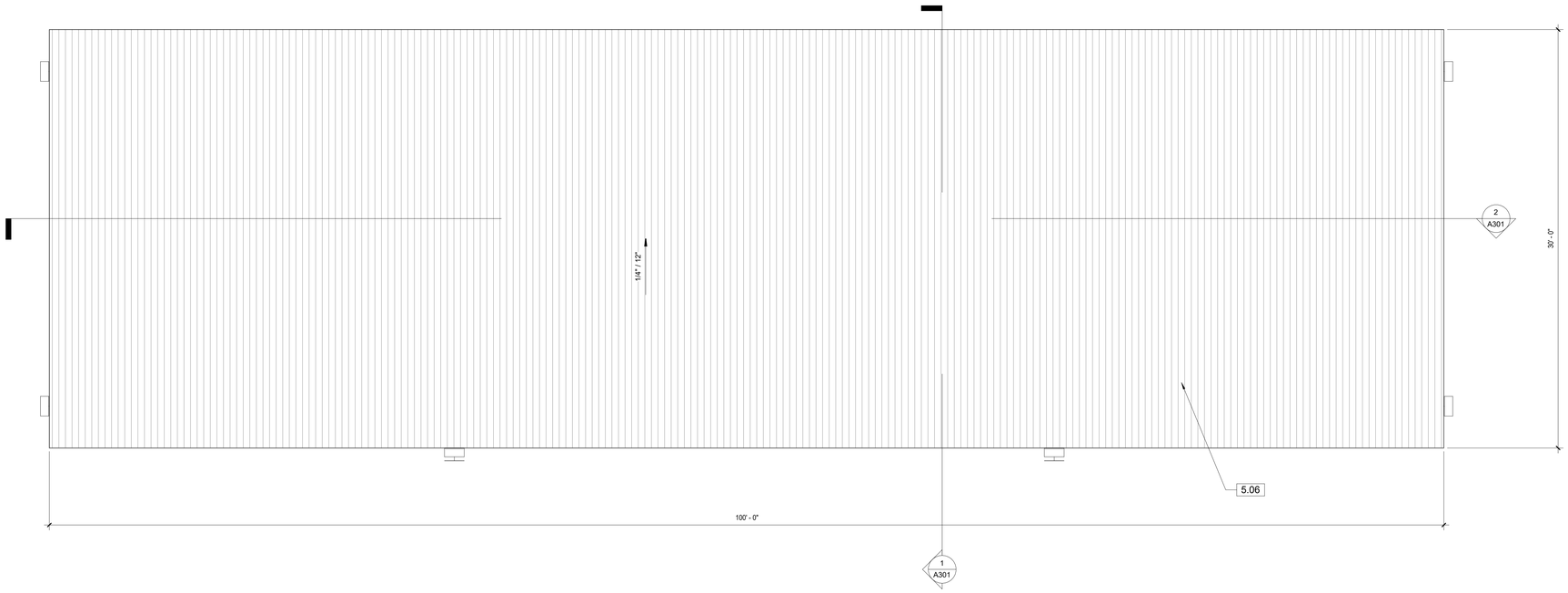
STAMPS/SEALS

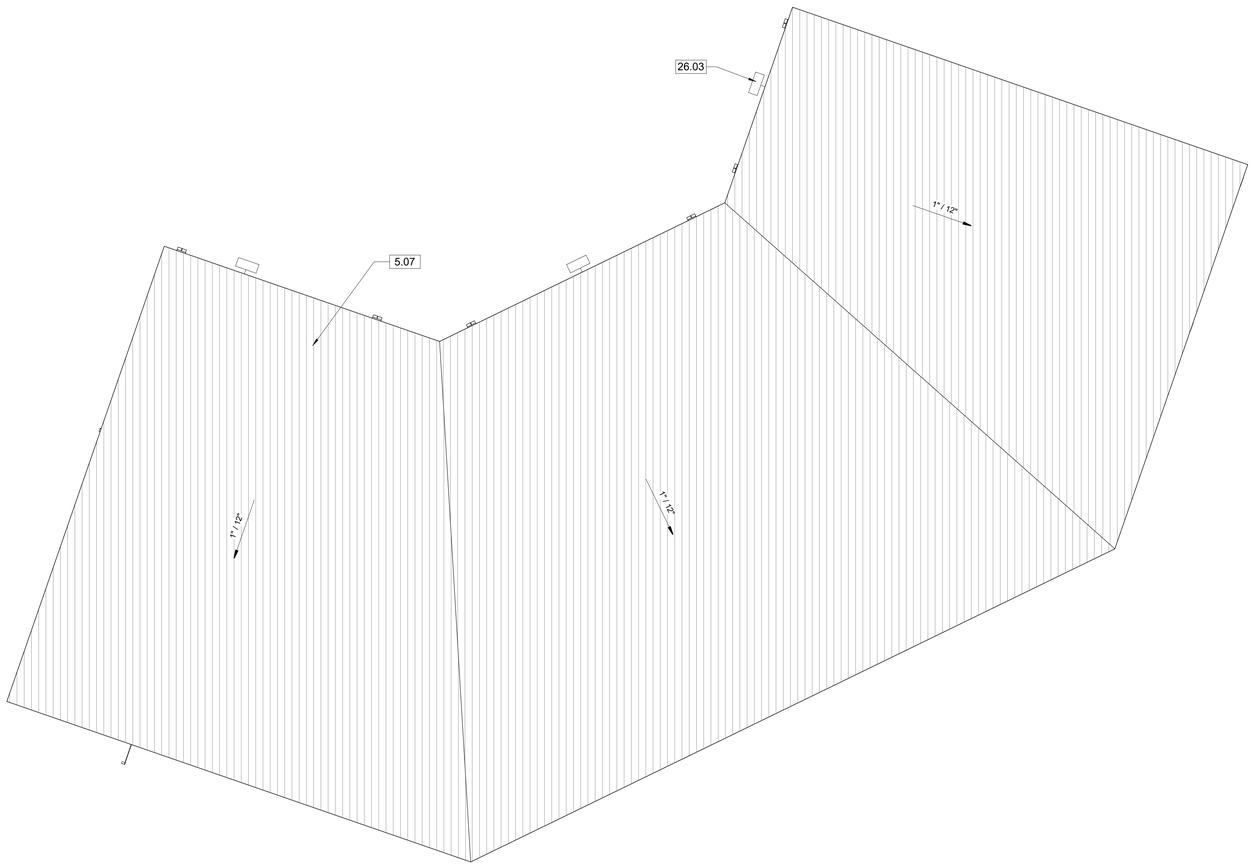
LICENSED ARCHITECT
LUCAS, AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

ANIMAL SHELTER & BLEACHER REFLECTED CEILING PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: GW	CHECKED:
SHEET NUMBER: A112	
DATE: 6/19/25	SHEET: ___ OF ___





NORTH

0 2' 4' 8'

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

KEYNOTES

5.06	MTL. ROOF, SEE SHADE STRUCTURE MFR. DWGS.
5.07	MTL. ROOF, SEE BLEACHER MFR. DWGS.
26.03	SURFACE MOUNTED LIGHT, SEE E301

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

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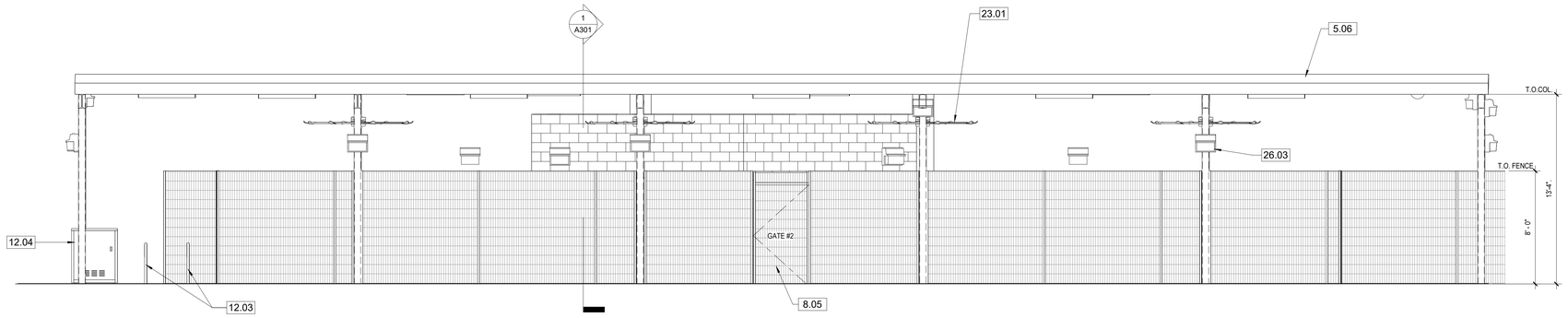
STAMPS/SEALS

LICENSED ARCHITECT
LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

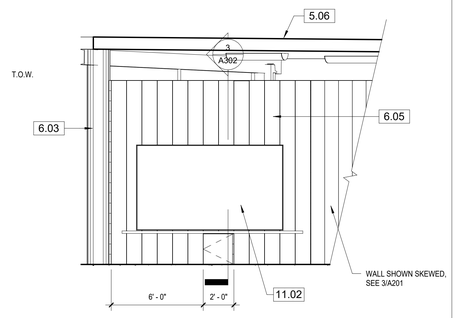
SHEET TITLE:

ANIMAL SHELTER & BLEACHER ROOF PLANS

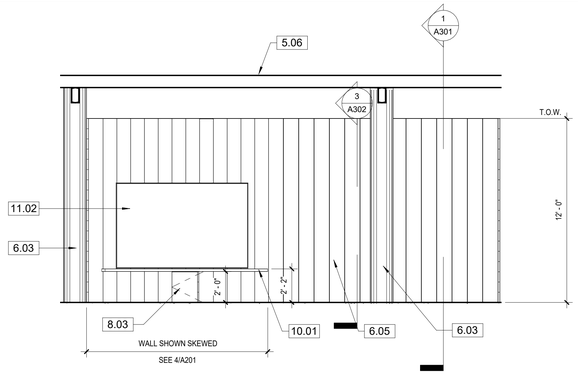
PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: GW	CHECKED:
SHEET NUMBER: **A113**	
DATE: 6/19/25	SHEET: ___ OF ___



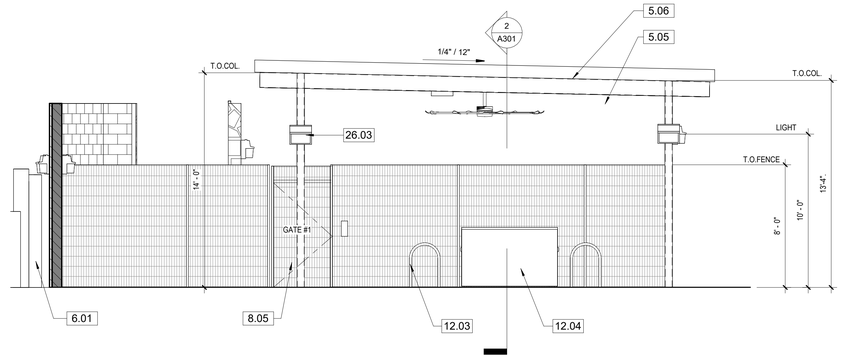
NORTH ELEVATION | 1/4" = 1'-0" | 1



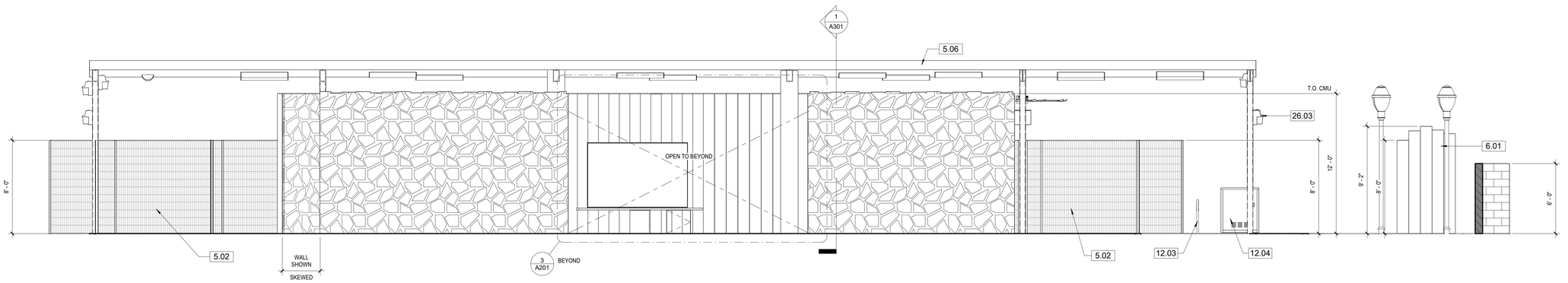
FRONT WALL ELEVATION | 1/4" = 1'-0" | 4



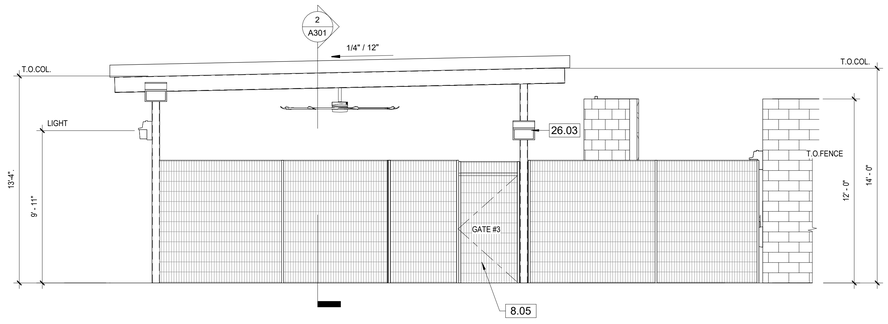
FRONT WALL ELEVATION | 1/4" = 1'-0" | 3



EAST ELEVATION | 1/4" = 1'-0" | 2



SOUTH ELEVATION | 1/4" = 1'-0" | 5



WEST ELEVATION | 1/4" = 1'-0" | 6

0 2' 4' 8'

KEYNOTES

5.02	8'-0" STEEL MESH FENCE, SEE 6, 7/A502
5.05	STEEL C BEAM, SEE SHADE STRUCTURE MFR. DWGS.
5.06	MTL. ROOF, SEE SHADE STRUCTURE MFR. DWGS.
6.01	DECORATIVE WOOD POST, SEE 9/A502
6.03	1'-6" DIA. WOOD SURROUND
6.05	12" DIA. DECORATIVE HALF-ROUND WOOD POSTS ATTACHED TO CMU WALL
8.03	2'-0" x 2'-0" WOOD ANIMAL ACCESS DOOR
8.05	4'-0" x 7'-0" STEEL MESH GATE W/ PANIC HARDWARE, SEE 1/A502
10.01	SHELF
11.02	LARGE SCREEN EXTERIOR RATED MONITOR; OWNER FURNISHED/ OWNER INSTALLED
12.03	BICYCLE RACK W/ CROSS BAR, STANDARD BLACK PLASTISOL, IN GROUND MOUNT MODEL #12727
12.04	BICYCLE STORAGE UNIT; ECOPARK STANDARD MODEL, 2 DOOR, SANDSTONE, RAL 1019, T-HANDLE, KEYED
23.01	8'-0" DIA. OVERHEAD FANS ATTACHED TO STL. CHANNEL BEAMS- MAX. WT. = 90 LBS., SEE 8/A502
26.03	SURFACE MOUNTED LIGHT, SEE E301

IDENTIFICATION STAMP
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APP: 03-124777 INC:
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DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

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CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT
LUCAS AMADOR WHITTLE
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

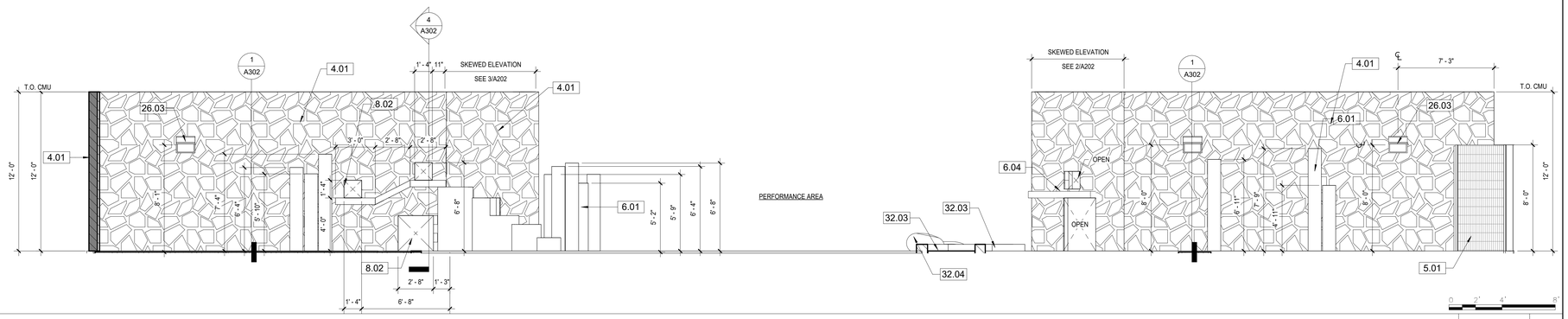
ANIMAL SHELTER
EXTERIOR ELEVATIONS

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: GW	CHECKED:

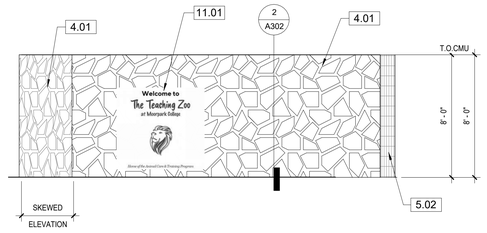
SHEET NUMBER:

A201

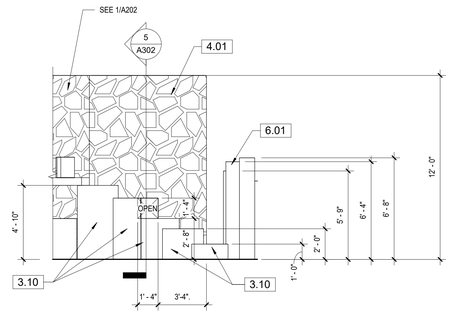
DATE: 6/19/25 | SHEET: ___ OF ___



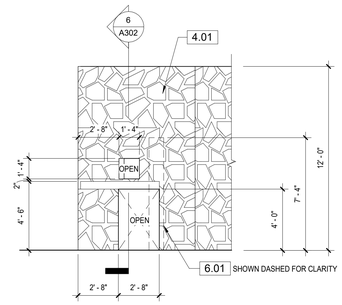
SOUTH ELEVATION AT STAGE | 1/4" = 1'-0" | 1



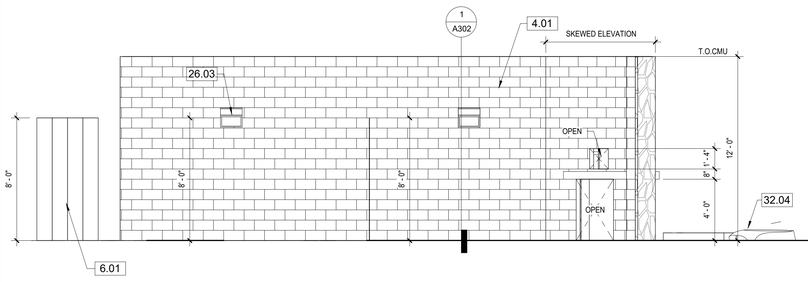
EAST ELEVATION AT SIGN WALL | 1/4" = 1'-0" | 4

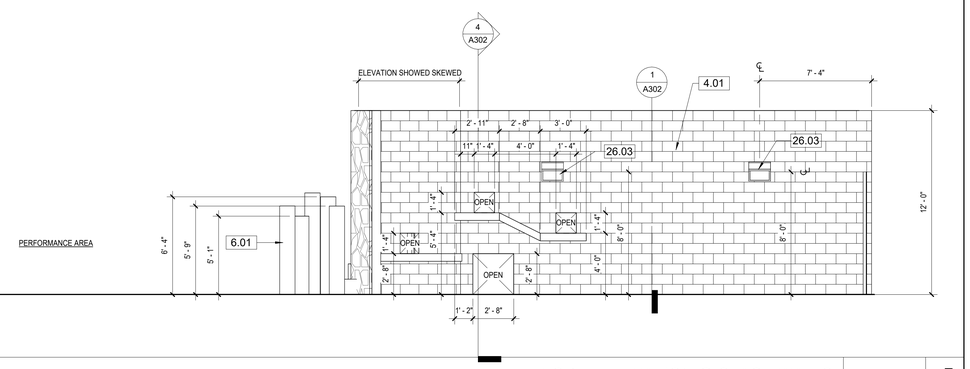


PARTIAL SOUTH ELEVATION AT STAGE | 1/4" = 1'-0" | 3

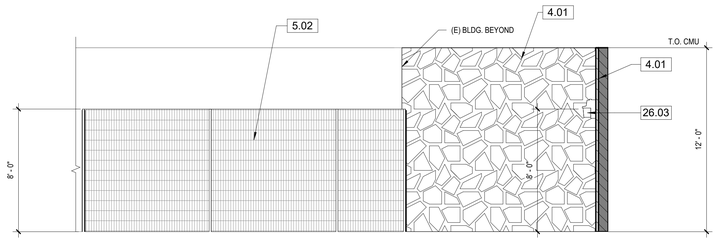


PARTIAL SOUTH ELEVATION AT STAGE | 1/4" = 1'-0" | 2





NORTH ELEVATION @ STAGE WALLS | 1/4" = 1'-0" | 5



EAST ELEVATION AT SITE WALL | 1/4" = 1'-0" | 6

KEYNOTES

3.10	RADIUSED CONC. OVER FOAM FORM WITH FAUX WOOD FINISH
4.01	8" THK. CMU WALL W/ "STONE VENEER" ON (1) SIDE, SEE 6/S012
5.01	8'-0" CHAIN LINK FENCE WITH SLATS
5.02	8'-0" STEEL MESH FENCE, SEE 6, 7/A502
6.01	DECORATIVE WOOD POST, SEE 9/A502
6.04	FAUX STONE FINISH SHELVES, STEPS AND WALL FINISH
8.02	PASS-THRU OPENING IN WALL
11.01	SIGNAGE- OWNER FURNISHED/ OWNER INSTALLED
26.03	SURFACE MOUNTED LIGHT, SEE E301
32.03	WATER FEATURE, SEE 5/A502
32.04	BOULDER, SEE 2/L2.1

IDENTIFICATION STAMP
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APP: 03-124777 INC:
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DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

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CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT
LUCAS AMADOR WHITTLE
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

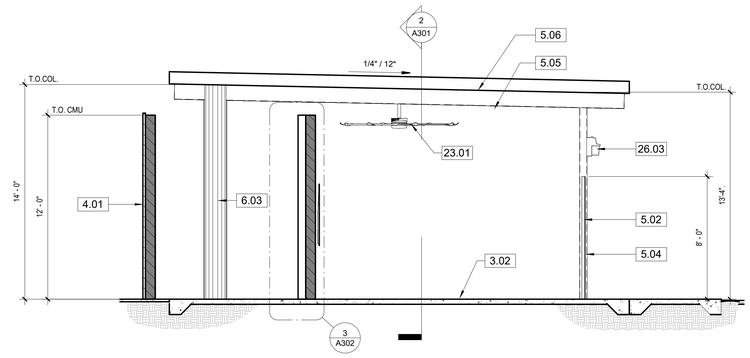
SITE WALLS EXTERIOR ELEVATIONS

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

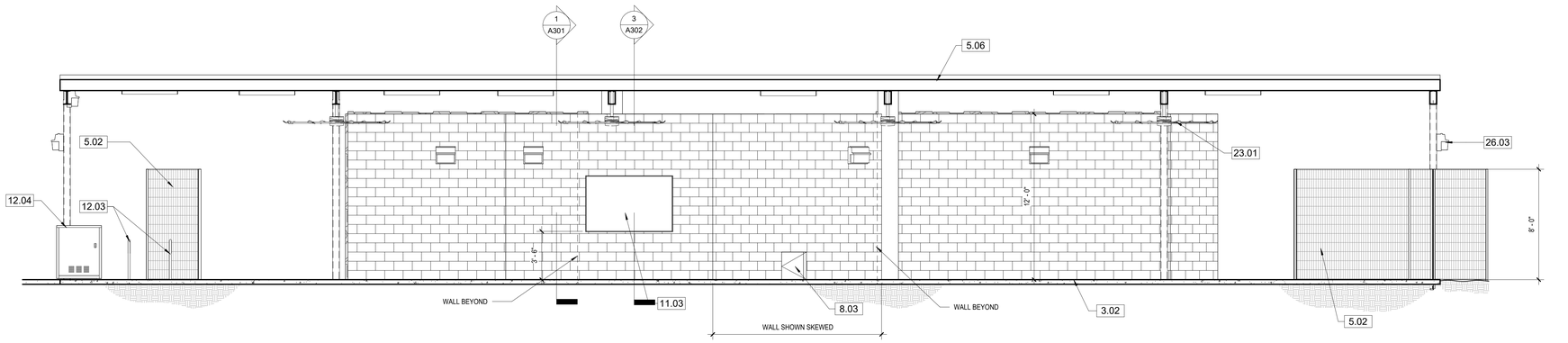
SHEET NUMBER:

A202

DATE: 6/19/25 | SHEET: ___ OF ___



CROSS SECTION THRU ANIMAL SHELTER | 1/4" = 1'-0" | 1



LONGITUDINAL SECTION THRU ANIMAL SHELTER | 1/4" = 1'-0" | 2

KEYNOTES

3.02	CONCRETE SLAB, SEE C101
4.01	8" THK. CMU WALL W/ "STONE VENEER" ON (1) SIDE, SEE 6/S012
5.02	8'-0" STEEL MESH FENCE, SEE 6, 7/A502
5.04	STEEL COLUMN, SEE SHADE STRUCTURE MFR. DWGS.
5.05	STEEL C BEAM, SEE SHADE STRUCTURE MFR. DWGS.
5.06	MTL. ROOF, SEE SHADE STRUCTURE MFR. DWGS.
6.03	1'-6" DIA. WOOD SURROUND.
8.03	2'-0" x 2'-0" WOOD ANIMAL ACCESS DOOR
11.03	FLAT SCREEN EXTERIOR RATED MONITOR; OWNER FURNISHED/ OWNER INSTALLED
12.03	BICYCLE RACK W/ CROSS BAR, STANDARD BLACK PLASTISOL, IN GROUND MOUNT MODEL #12727
12.04	BICYCLE STORAGE UNIT; ECOPARK STANDARD MODEL, 2 DOOR, SANDSTONE, RAL 1019, T-HANDLE, KEYED
23.01	8'-0" DIA. OVERHEAD FANS ATTACHED TO STL. CHANNEL BEAMS- MAX. WT. = 90 LBS., SEE 8/A502
26.03	SURFACE MOUNTED LIGHT, SEE E301

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PROJECT TITLE AND SCHOOL LOCATION

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LICENSED ARCHITECT
LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

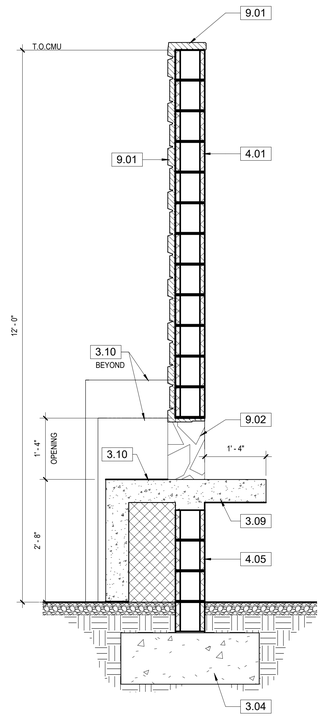
ANIMAL SHELTER BUILDING SECTIONS

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

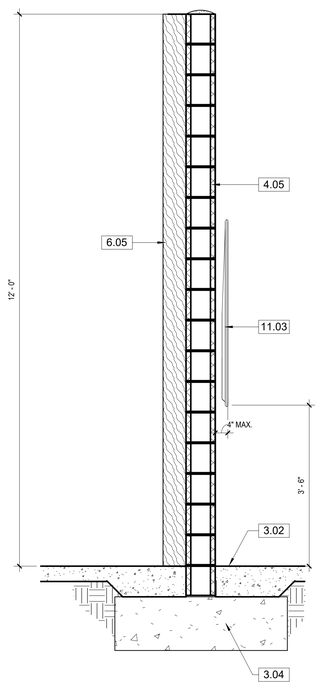
SHEET NUMBER:

A301

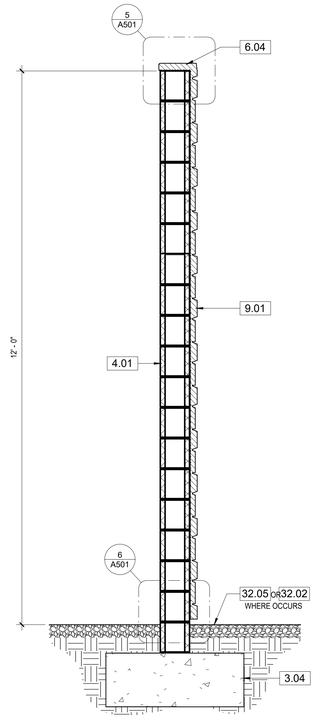
DATE: 6/19/25 | SHEET: ___ OF ___



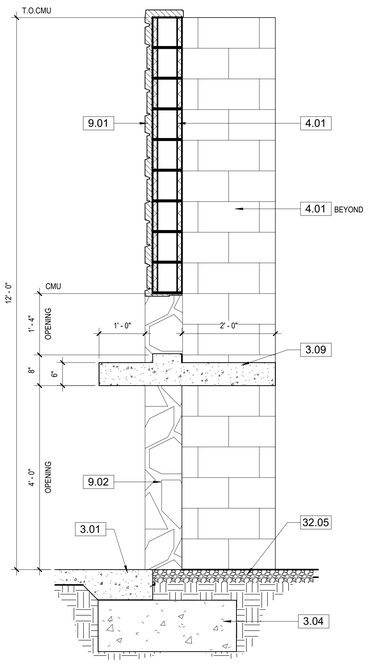
WALL SECTION THRU STAGE WALL | 3/4" = 1'-0" | 5



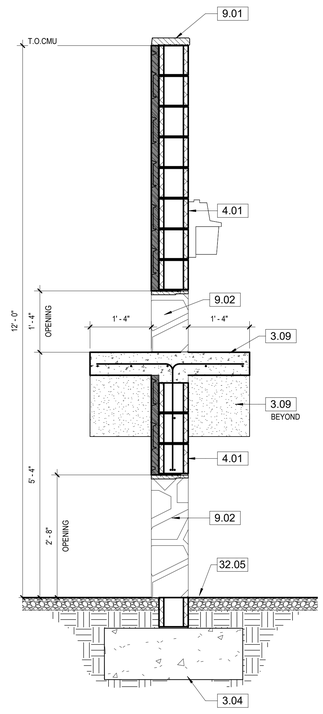
WALL SECTION THRU SCREEN WALL | 3/4" = 1'-0" | 3



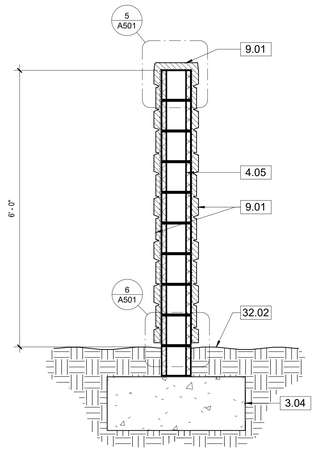
WALL SECTION | 3/4" = 1'-0" | 1



WALL SECTION THRU STAGE WALL | 3/4" = 1'-0" | 6



WALL SECTION THRU STAGE WALL | 3/4" = 1'-0" | 4



WALL SECTION THRU SIGN WALL | 3/4" = 1'-0" | 2

0 1/2" 1" 2"

KEYNOTES

3.01	CONCRETE SIDEWALK, SEE CIVIL DWGS.
3.02	CONCRETE SLAB, SEE C101
3.04	CONCRETE FOOTING, SEE 6/S012
3.09	CONCRETE LEDGE/ RAMP SYSTEM FOR ANIMALS
3.10	RADIUSED CONC. OVER FOAM FORM WITH FAUX WOOD FINISH
4.01	8" THK. CMU WALL W/ "STONE VENEER" ON (1) SIDE, SEE 6/S012
4.05	8" THK. CMU WALL, SEE 6/S012
6.04	FAUX STONE FINISH SHELVES, STEPS AND WALL FINISH
6.05	12" DIA. DECORATIVE HALF-ROUND WOOD POSTS ATTACHED TO CMU WALL
9.01	FAUX STONE FINISH PLASTER OVER MTL. LATH 0.75" MIN. TO 2.5" MAX.
9.02	WRAP STONE FINISH PLASTER AROUND END OF WALL
11.03	FLAT SCREEN EXTERIOR RATED MONITOR; OWNER FURNISHED/ OWNER INSTALLED
32.02	PLANTING AREA, SEE L2.1
32.05	DECOMPOSED GRANITE (DG), SEE 2/L2.1

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LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

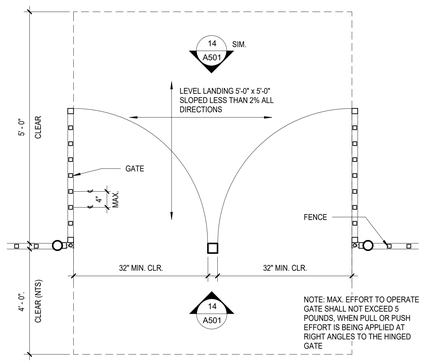
SHEET TITLE:

WALL SECTIONS

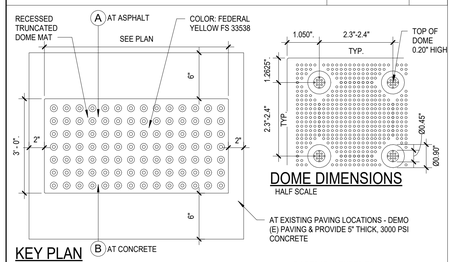
PROJECT NO: 21-MPC-040 | PROJECT ARCH: Designer
DRAWN: GW | CHECKED: Checker
SHEET NUMBER:

A302

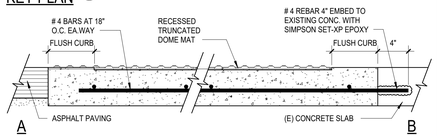
DATE: 6/19/25 | SHEET: ____ OF ____



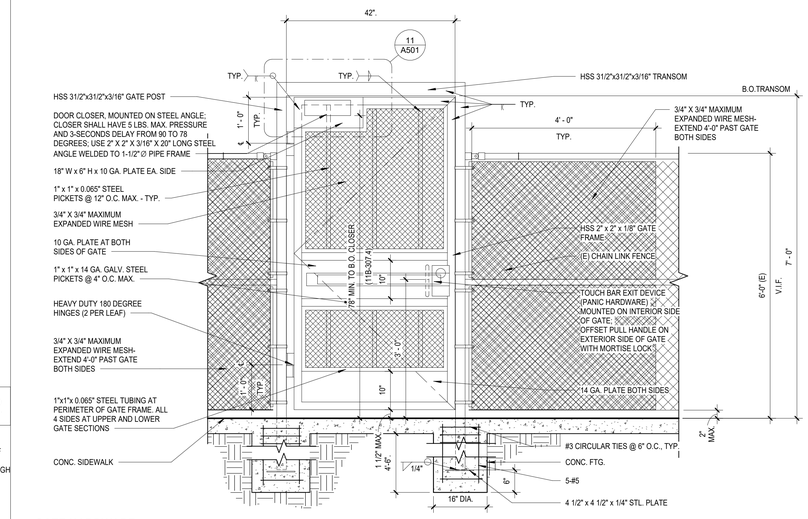
DOUBLE GATE PLAN | 3/4" = 1'-0" | 12



DOME DIMENSIONS
HALF SCALE



TACTILE WARNING SURFACE MAT | 1 1/2" = 1'-0" | 13



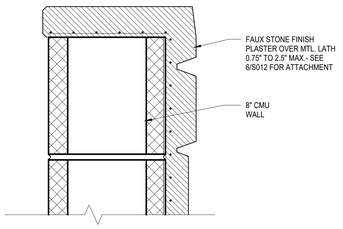
GATE HARDWARE :

1. EXIT DEVICE:
   PANIC HARDWARE ON PUSH SIDE
   PRECISION 2108 x V4908A x 630 x 48"
   MORTISE LOCK W/ LEVER HANDLE ON PUSH & PULL SIDE
   SCHLAGE L-9070 x 32D W/ 06 N TRIM
2. DOOR CLOSER:
   120-DEGREE, DELAYED ACTION
   PULL SIDE: LCN 4040 W/ RW/PA ARM KIT
   PUSH SIDE: LCN 4040 XP W/ EDA ARM
   GATE CLOSER PLATE - SEE 4/A501
3. WELDABLE GATE BOX:
   KEEDEX KBX-MOR1 10G
4. HINGES:
   D&D TECHNOLOGIES VERSAWELDC13950 (SQUARE POSTS)
   D&D TECHNOLOGIES SURECLOSE 75108113M-75108114M-75108124M
   (2) HINGES MAX. PER EA. ADA PEDESTRIAN SWING GATE W/ BOTH HINGES SUPPORTING THE WEIGHT OF THE GATE, TYP.
   APPROVED EQUAL ALT: BROOKFIELD INDUSTRIES W500-HD STANDARD SERIES-W
   NOTE: ALL HINGES LISTED ABOVE ARE WELD ON
5. POSTS & FRAMES:
   PIPE: ASTM A53 (Fy=35 ksi)
   HSS: ASTM A500 GRADE B (Fy=42 ksi)
6. PLATES: ASTM A36
7. WELDING ELECTRODES: E70XX
8. CONCRETE: fc'=3 ksi IN 28 DAYS
   fc'=60 ksi (ASTM A615)
9. GATE ACCESSIBLE SIGN:
   EACH CORNER SHALL USE A 1/4" x 20 BOLT, NUT & LOCK WASHER TO SECURE TO DEBURRED TENSION BARS HORIZONTALLY BEHIND SIGN, TENSION BARS TO BE WEAVED INTO CHAIN LINK FABRIC & SHALL NOT EXTEND BEYOND THE SIGN

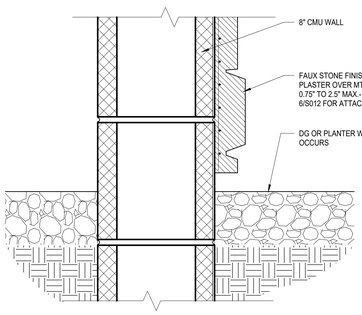
NOTES :

1. ENTIRE ASSEMBLY TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. PERFORATED GALVANIZED METAL FABRIC TO BE INSTALLED AFTER HOT DIPPED GALVANIZING. RIVET PERFORATED TO 1"X1" PICKETS USING 3/16" DIAMETER x 5/16" GRIP-RANGE STEEL RIVETS, SPACED AT A MAXIMUM OF 12". START AND END FABRIC ON PICKETS TO ELIMINATE EXPOSED EDGES.
2. FIELD WELDS AND SHARP EDGES ON FENCING AND GATES SHALL BE DEBURRED TO A SMOOTH FINISH. WELDS TO BE CLEANED OF ALL SPLATTER. COVER ALL EXPOSED SURFACES WITH TWO THOROUGH COATS OF COLD GALVANIZED PAINT.
3. FOR GATE AND FENCE POST/FOOTING. SEE DETAIL 13/A-3
4. GATES AND FENCES ARE NOT PART OF DSA APPROVAL SSS APPROVAL.
5. PROVIDE 3/4" x 3/4" EXPANDED WIRE MESH SECURITY SCREENS 4'-0" WIDE x FENCE HEIGHT ADJACENT TO GATES ON BOTH SIDES

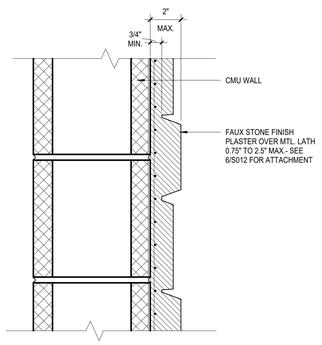
EMERGENCY EGRESS PEDESTRIAN GATE | 3/4" = 1'-0" | 9



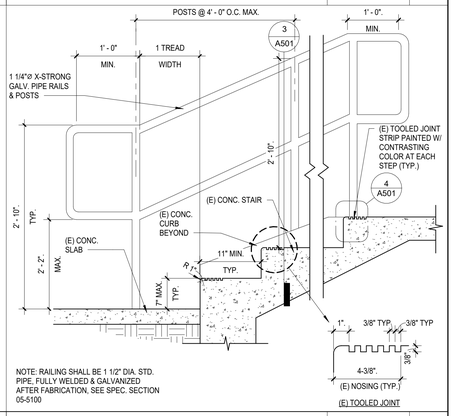
TOP OF WALL | 3" = 1'-0" | 5



WALL BASE | 3" = 1'-0" | 6

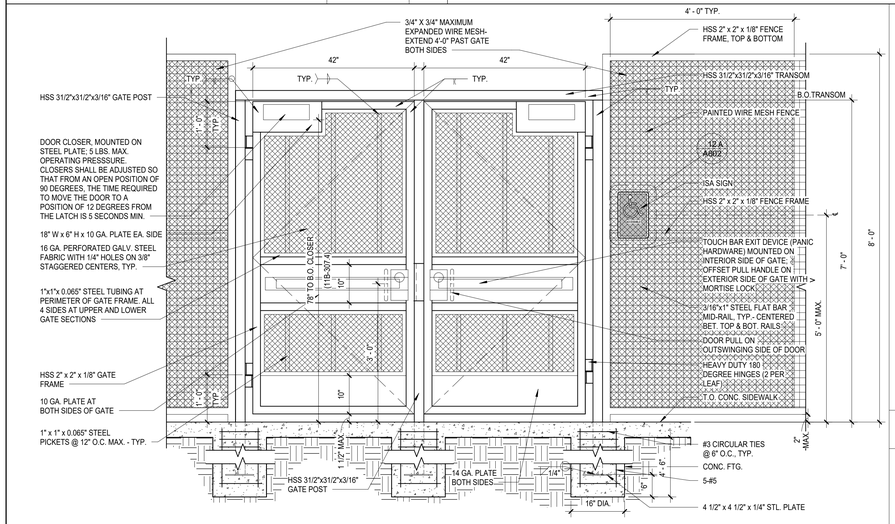


STONE VENEER | 3" = 1'-0" | 1



NOTE: RAILING SHALL BE 1 1/2" DIA. STD. PIPE, FULLY WELDED & GALVANIZED AFTER FABRICATION, SEE SPEC. SECTION 05-5100

EXTERIOR STAIR SECTION | 1" = 1'-0" | 2



GATE HARDWARE :

1. EXIT DEVICE:
   PANIC HARDWARE ON PUSH SIDE
   PRECISION 2108 x V4908A x 630 x 48"
   MORTISE LOCK W/ LEVER HANDLE ON PUSH & PULL SIDE
   SCHLAGE L-9070 x 32D W/ 06 N TRIM
2. DOOR CLOSER:
   120-DEGREE, DELAYED ACTION
   PULL SIDE: LCN 4040 W/ RW/PA ARM KIT
   PUSH SIDE: LCN 4040 XP W/ EDA ARM
   GATE CLOSER PLATE - SEE 4/A501
3. WELDABLE GATE BOX:
   KEEDEX KBX-MOR1 10G
4. HINGES:
   D&D TECHNOLOGIES VERSAWELDC13950 (SQUARE POSTS)
   D&D TECHNOLOGIES SURECLOSE 75108113M-75108114M-75108124M
   (2) HINGES MAX. PER EA. ADA PEDESTRIAN SWING GATE W/ BOTH HINGES SUPPORTING THE WEIGHT OF THE GATE, TYP.
   APPROVED EQUAL ALT: BROOKFIELD INDUSTRIES W500-HD STANDARD SERIES-W
   NOTE: ALL HINGES LISTED ABOVE ARE WELD ON
5. POSTS & FRAMES:
   PIPE: ASTM A53 (Fy=35 ksi)
   HSS: ASTM A500 GRADE B (Fy=42 ksi)
6. PLATES: ASTM A36
7. WELDING ELECTRODES: E70XX
8. CONCRETE: fc'=3 ksi IN 28 DAYS
   fc'=60 ksi (ASTM A615)
9. GATE ACCESSIBLE SIGN:
   EACH CORNER SHALL USE A 1/4" x 20 BOLT, NUT & LOCK WASHER TO SECURE TO DEBURRED TENSION BARS HORIZONTALLY BEHIND SIGN, TENSION BARS TO BE WEAVED INTO CHAIN LINK FABRIC & SHALL NOT EXTEND BEYOND THE SIGN

NOTES :

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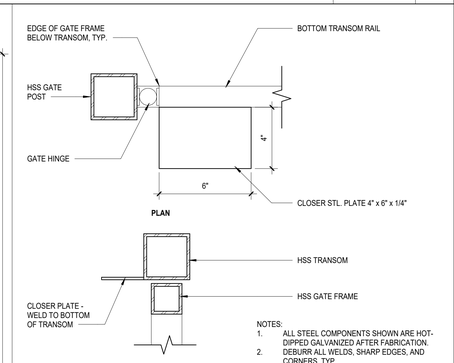
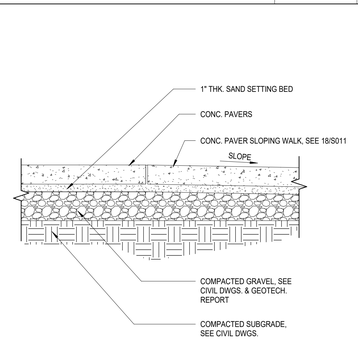
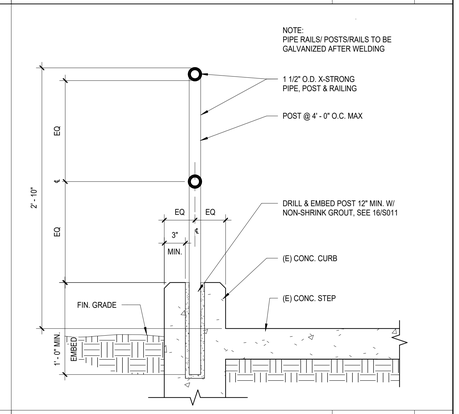
ACCESSIBLE PEDESTRIAN GATE - PAIR | 3/4" = 1'-0" | 14



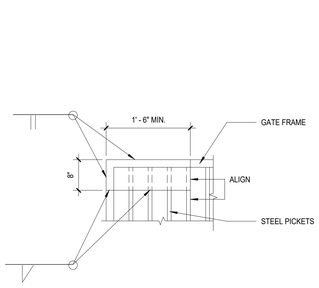
GATE CLOSURE PLATE | 3" = 1'-0" | 10



CONCRETE PAVERS | 1 1/2" = 1'-0" | 7

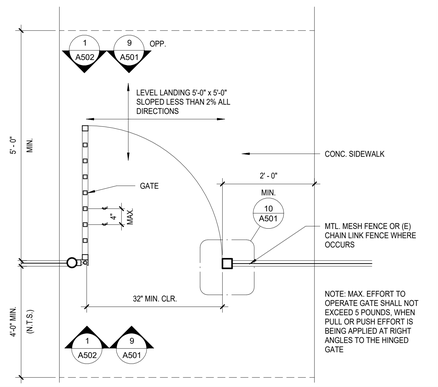


HANDRAIL AT (E) STAIR | 1 1/2" = 1'-0" | 3

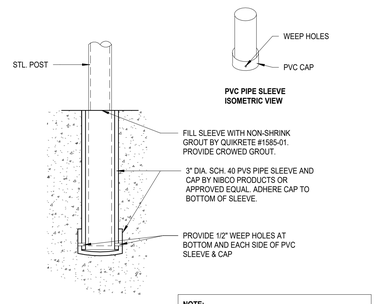


NOTE: WELD TO FRAME AND PICKETS - TYP. AT 14 GA PLATES

CLOSER PLATE DETAIL | 3/4" = 1'-0" | 11



SINGLE GATE PLAN | 3/4" = 1'-0" | 8



NOTE:
CONTRACTOR TO PROVIDE A CONTROL JOINT INTO THE CONCRETE ON BOTH SIDES FOR EACH POST. CONTRACTOR TO FOLLOW SOLVENT WELDING INSTRUCTIONS PER MANUFACTURER'S SPECIFICATIONS WHEN ADHERING PVC CAP TO BOTTOM OF SLEEVE.

TYP. POST EMBED | 3" = 1'-0" | 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
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COMMISSIONED ARCHITECT

AMADÖR

amador whittle architects, inc.
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

STAMPS/SEALS



SHEET TITLE:

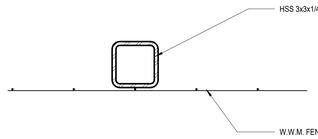
DETAILS

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

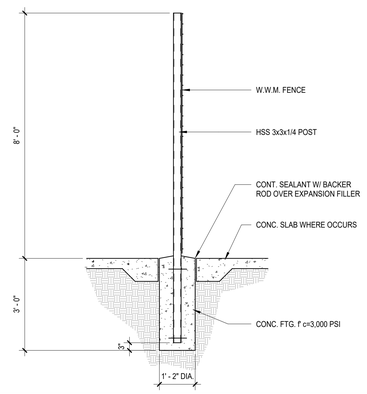
SHEET NUMBER:

A501

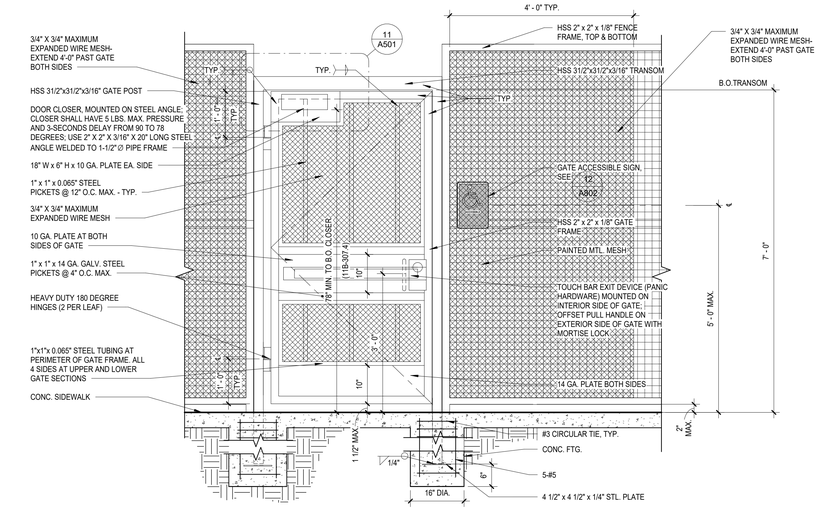
DATE: 6/19/25 | SHEET: ____ OF ____



TYPICAL FENCE POST | 3" = 1'-0" | 6



FENCE FOOTING | 1/2" = 1'-0" | 7



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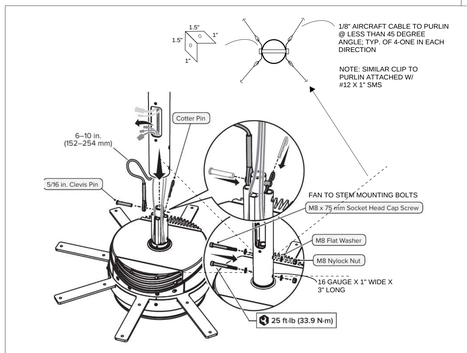
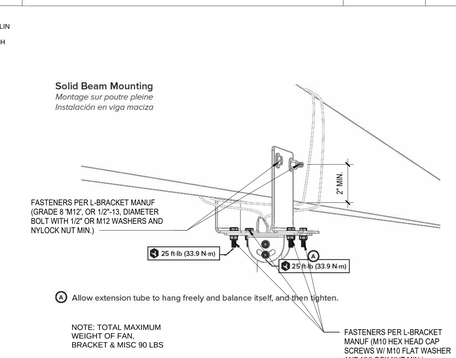
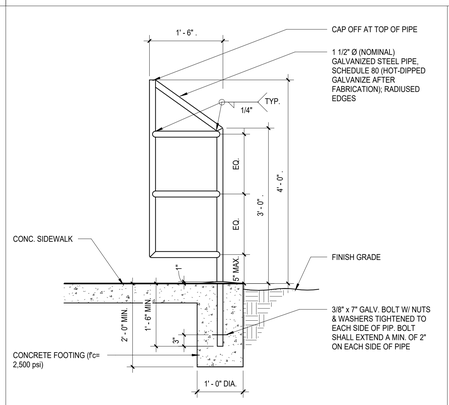
ORNAMENTAL FENCING LESS THAN 8 FEET TALL NOT PART OF DSA SSS APPROVAL. STRUCTURAL STEEL WELDING EXEMPT FROM TESTING AND SPECIAL INSPECTION (PER DSA 103 FORM)

PEDESTRIAN GATE | 3/4" = 1'-0" | 1

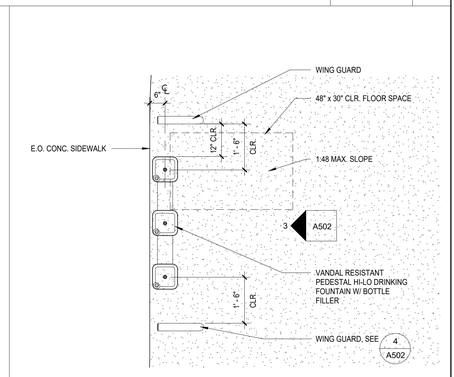


FAN ATTACHMENT | 12" = 1'-0" | 8

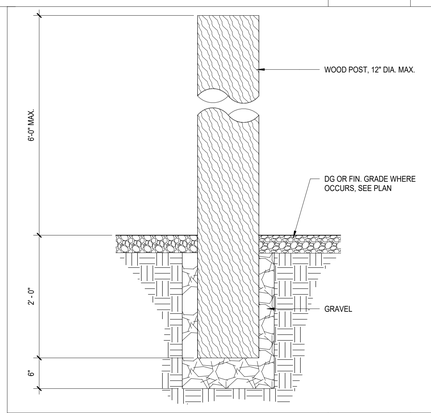




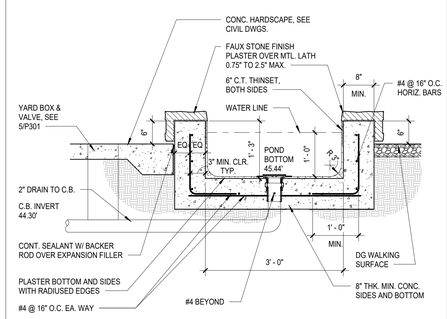
DRINKING FOUNTAIN WING GUARD | 3/4" = 1'-0" | 4



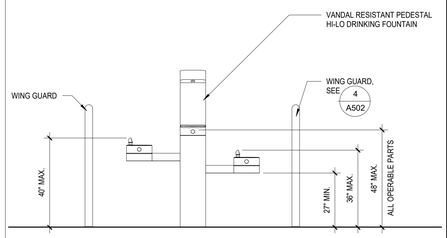
HI-LO DRINKING FOUNTAIN PLAN | 1/2" = 1'-0" | 2



DECORATIVE WOOD POST | 1" = 1'-0" | 9



WATER FEATURE SECTION | 3/4" = 1'-0" | 5



DRINKING FOUNTAIN ELEVATION | 1/2" = 1'-0" | 3

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PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
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MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT
LUCAS AMADOR WHITTLE
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

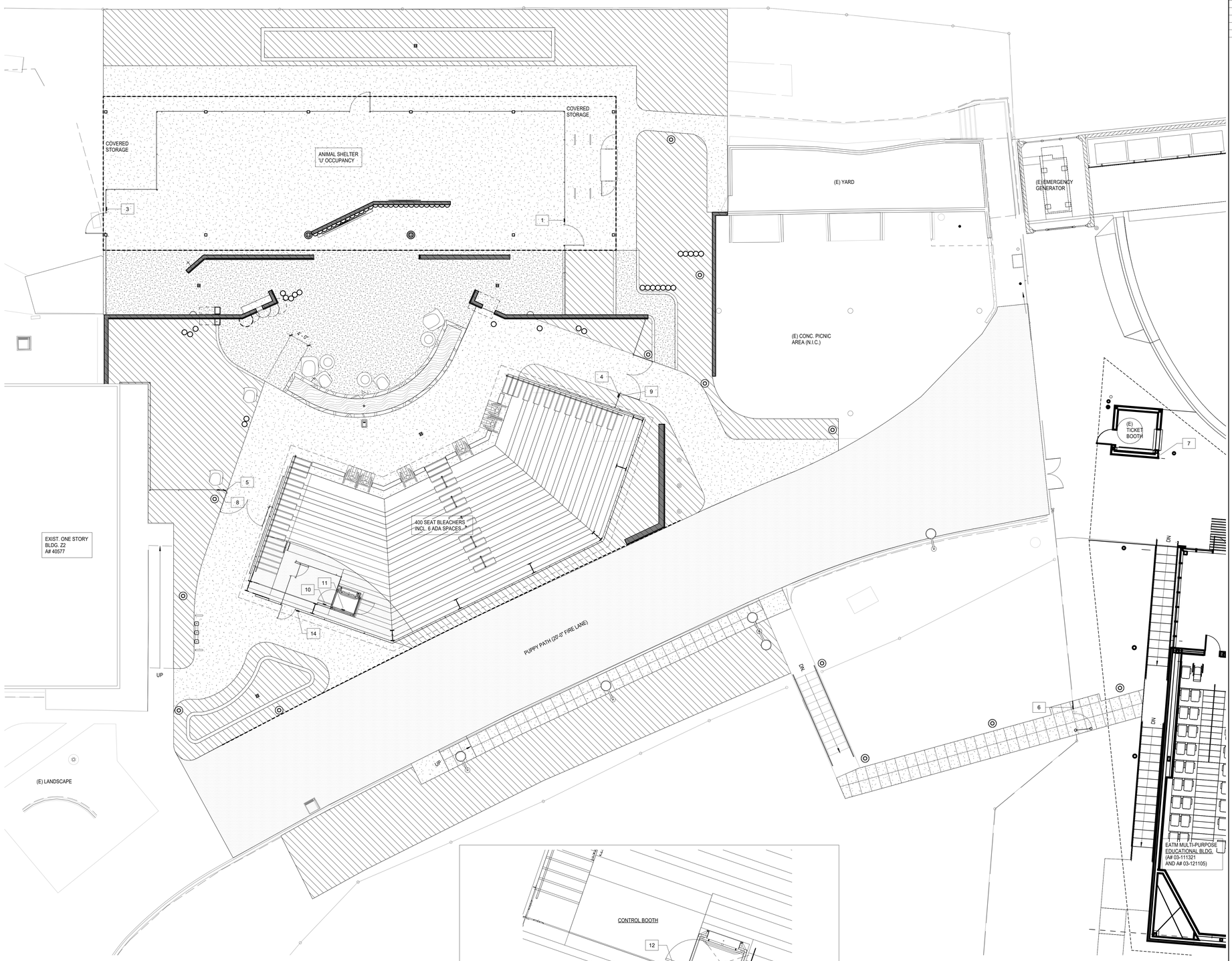
DETAILS

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

SHEET NUMBER:

A502

DATE: 6/19/25 | SHEET: ____ OF ____



UPPER LEVEL ACCESSIBLE PLATFORM PLAN SIGNAGE | 1/4" = 1'-0" | 2

SIGNAGE PLAN | 1/8" = 1'-0" | 1

SIGNAGE SCHEDULE

SIGN NO.	SIGN - TEXT	DETAIL
1	EXIT	8,13/A802
3	EXIT	8,13/A802
4	EXIT	8,13/A802
5	EXIT	8,13/A802
6	EXIT	8,13/A802
7	ASSISTED LISTENING	14/A802
8	ASSISTED LISTENING	14/A802
9	ASSISTED LISTENING	14/A802
10	NO FREIGHT AT ACCESSIBLE LIFT	15/A802
11	NO FREIGHT AT ACCESSIBLE LIFT	15/A802
12	NO FREIGHT AT ACCESSIBLE LIFT	15/A802
13	NO FREIGHT AT ACCESSIBLE LIFT	15/A802
14	NO FREIGHT AT ACCESSIBLE LIFT	15/A802

LEGEND

X — SIGN NUMBER

SIGN

NOTES

1. SEE SHEET A802 FOR SIGNAGE DETAILS INCLUDING CHARACTERS & BRAILLE SIGN DETAIL.
2. SEE GENERAL ACCESSIBILITY NOTES ON SHEET G002 FOR ADDITIONAL REQUIREMENTS.
3. SIGNS SHALL BE LOCATED ADJACENT TO EXIT ACCESS DOORS UNLESS NOTED OTHERWISE.
4. WHEN SIGNS ARE USED TO IDENTIFY PERMANENT ROOMS AND SPACES OF BUILDINGS, BRAILLE MUST BE INCLUDED AS PART OF THAT SIGNAGE AS REQUIRED BY CBC 11B-216.2

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LICENSED ARCHITECT
LUCAS AMADOR
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

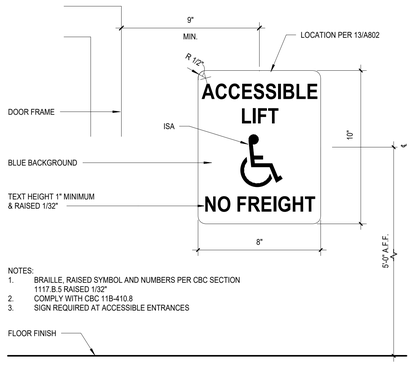
SIGNAGE PLAN & SCHEDULE

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

SHEET NUMBER:

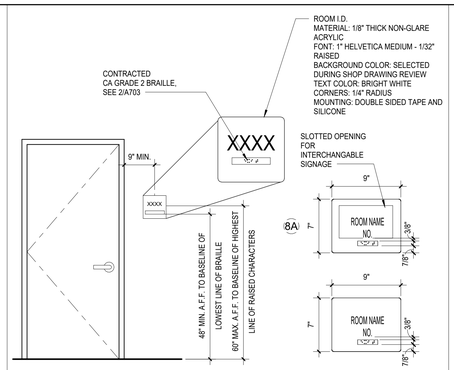
A801

DATE: 6/19/25 | SHEET: ___ OF ___

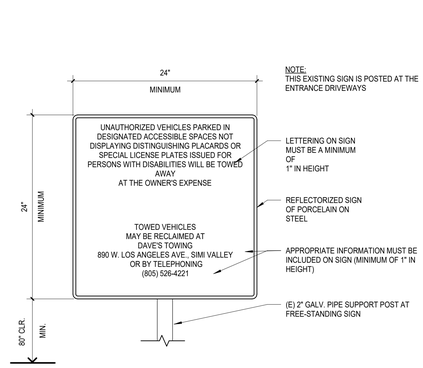


WHEELCHAIR LIFT SIGN | 3" = 1'-0" | 15

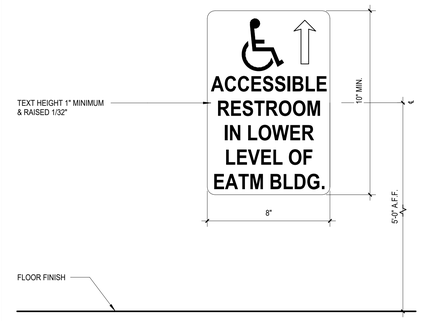
NOT USED



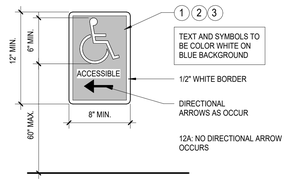
ROOM I.D. SIGN | 1 1/2" = 1'-0" | 7



(E) VEHICLE TOW AWAY SIGN | 1 1/2" = 1'-0" | 4



ACCESSIBLE RR DIRECTIONAL SIGN | 3" = 1'-0" | 1

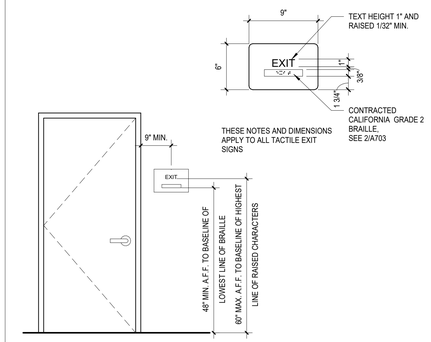


KEYNOTES:

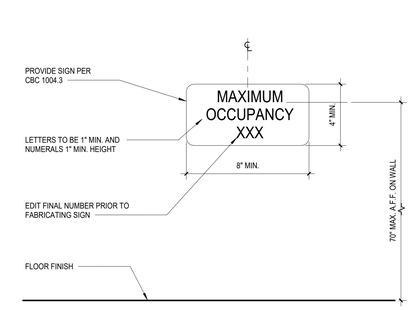
1. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND(MINIMUM 70%), EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPER CASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPER CASE LETTER "I" AND A STROKE THICKNESS OF THE UPPER CASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
3. VISUAL CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEW DISTANCE FROM WHICH THEY ARE TO BE READ, THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE I. LOWERCASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH CBC TABLE 11B-703.5.5, THE MINIMUM CHARACTER HEIGHT SHALL BE 5/8" (15.9MM). REFER TO ACCOMPANYING DETAILSFOR CHARACTER HEIGHT.

NOTES:
1. SIGN TO CONFORM TO ALL CURENT, FEDERAL, STATE, LOCAL CODES AND/ OR REGULATIONS.
2. ARROW SHALL POINT IN THE DIRECTION OF THE PATH OF TRAVEL.
3. PROVIDE 1/2" DIA. HOLES AT EACH CORNER FOR MOUNTING SIGNS TO CHAIN-LINK FENCE WITH FENCE CLIPS @ SCREWS WALL MOUNTING USING GALVANIZED WASHERS, EXPANSION SHIELDS AND VANDAL-PROOF SCREWS.

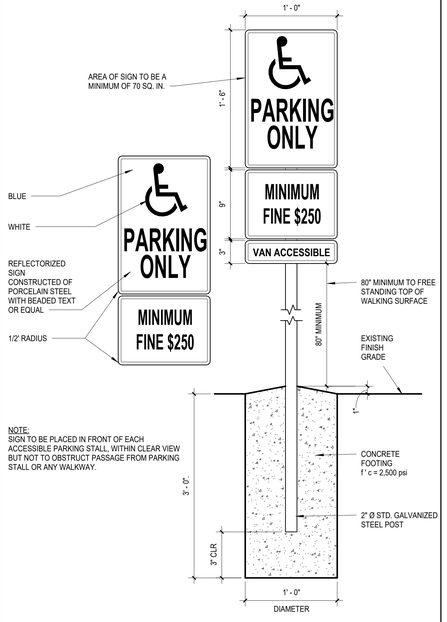
DIRECTIONAL SIGN | 1 1/2" = 1'-0" | 12



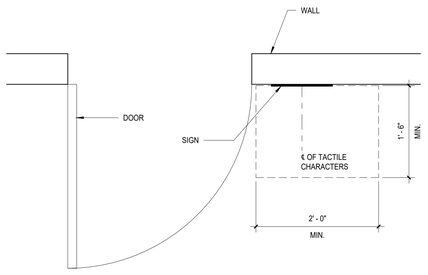
TACTILE EXIT SIGN | 1 1/2" = 1'-0" | 8



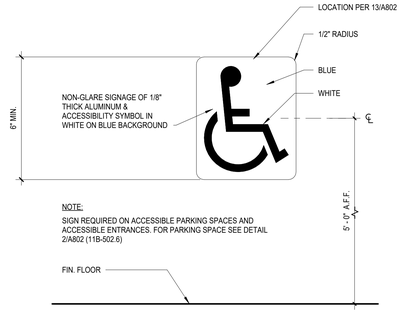
OCCUPANT LOAD SIGN | 3" = 1'-0" | 5



(E) ADA PARKING STALL SIGN | 1 1/2" = 1'-0" | 2



SIGN AT GATE | 1" = 1'-0" | 13



INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) SIGN | 3" = 1'-0" | 9

A. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE E BELOW). CBC 11B-703.2

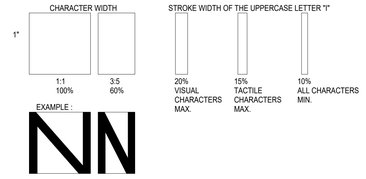
B. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9 MM) AND A MAXIMUM OF 2 INCHES (51 MM) HIGH BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC 11B-703.2.5

C. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, PICTOGRAMS, SYMBOLS AND THEIR BACKGROUND MUST HAVE A NON-GLARE FINISH. CHARACTERS, PICTOGRAMS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. CBC 11B-703.5.1, 11B-703.6.2, 11B-703.7.1

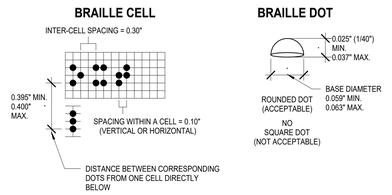
D. PROPORTIONS: CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 % MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". CBC 11B-703.2.4, 11B-703.5.4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER FOR RAISED CHARACTERS AND 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER FOR VISUAL CHARACTERS. CBC 11B-703.2.6, 11B-703.5.7

AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS "I" AND "O" AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE "O". IF THE CHARACTER IS NOT WIDER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 15% OR 10% RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AND THE 10% RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

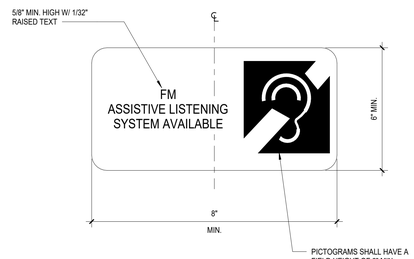


E. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.5 MM) ON CENTERS IN EACH CELL WITH 0.30 INCH (7.6 MM) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 MM) ABOVE THE BACKGROUND AND 0.037" MAXIMUM. CBC 11B-703.3

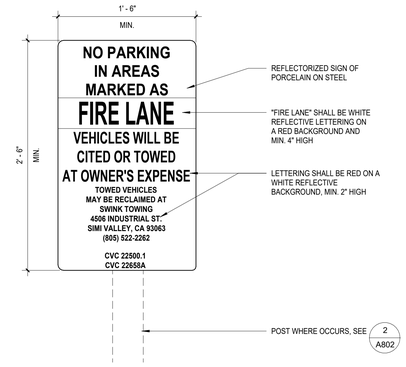


INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT & SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED & FLAT TOPPED. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

CHARACTERS & BRAILLE SIGN DETAIL | 6" = 1'-0" | 6



ASSISTIVE LISTENING SYSTEM SIGN | 6" = 1'-0" | 14



(E) FIRE LANE SIGN AT ENTRY | 1 1/2" = 1'-0" | 10



ISA PARKING STALL PAINTED SYMBOL | 3/4" = 1'-0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & ANIMAL SHELTER
7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

STAMPS/SEALS

LICENSED ARCHITECT
LUCAS AMADOR WHITTLE
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

SHEET TITLE:

SIGNAGE DETAILS

PROJECT NO: 21-MPC-040	PROJECT ARCH: Designer
DRAWN: Author	CHECKED: Checker

SHEET NUMBER:

A802

DATE: 6/19/25 | SHEET: ____ OF ____

ABBREVIATIONS

A.B.	ANCHOR BOLTS	PLT.	PLATE / PROPERTY LINE
ARCH.	ARCHITECT OR ARCHITECTURAL	PLY.	PLYWOOD
B.N.	BOUNDARY NAILING	REINF.	REINFORCEMENT
BLK'G.	BLOCKING	REQ'D.	REQUIRED
BM.	BEAM	S.A.D.	SEE ARCHITECTURAL DRAWINGS
CONN.	CONNECTION	S.O.G.	SLAB ON GRADE
CONT.	CONTINUOUS	SCHED.	SCHEDULE
DWG'S.	DRAWINGS	SHT'G	SHEATHING
E.A.	EACH	SIM.	SIMILAR
E.N.	EDGE NAIL	S.M.S.	SHEET METAL SCREWS
F.N.	FINISH NAIL	STAGG.	STAGGERED
FTG.	FOOTING	T&B	TOP & BOTTOM
GLB.	GLUE-LAMINATED BEAM	TYP.	TYPICAL
L.W.	L.IGHTWEIGHT	U.N.O.	UNLESS NOTED OTHERWISE
M.B..	MACHINE BOLTS	U.S.P.	UNDER SEPARATE PERMIT
MAX.	MAXIMUM	VI.F.	VERIFY IN FIELD
MIN.	MINIMUM	WD.	WOOD
O.C.	ON CENTER	W.N.S.	WELDED NELSON STUDS
P.T.	PRESSURE TREATED	W.T.S.	WELDED TREADED STUDS

FOUNDATIONS

1. THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE CRITERIA AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT BY GEOTECHNIQUES, 1645 DONION ST, STE 107, VENTURA , CA. 93003. DATED 6/14/2024, PROJECT NO. 1003.049.

2. THE GEOTECHNICAL INVESTIGATION REPORT AND ITS RECOMMENDATIONS SHALL BE FOLLOWED AND SHALL BE CONSIDERED MINIMUM REQUIREMENTS UNLESS MORE STRINGENT REQUIREMENTS ARE PRESENTED IN THE SPECIFICATIONS OR ON THE DRAWINGS.

3. PER GEOTECHNICAL INVESTIGATION REPORT, THE ALLOWABLE SOIL BEARING PRESSURES ARE AS FOLLOWS:

   A. CONTINUOUS FOOTING: 1,500 PSF (WITH ALLOWABLE ⅓ INCREASE FOR SEISMIC AND WIND LOADS)

   B. ISOLATED SPREAD FOUNDATIONS: 1,500 PSF (WITH ALLOWABLE ⅓ INCREASE FOR SEISMIC AND WIND LOADS)

4. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE. THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE ALL EXCAVATIONS, SOIL COMPACTION WORK PRIOR TO PLACEMENT OF ANY REBAR OR CONCRETE, SHORING INSTALLATIONS, BACKFILL MATERIALS AND BACK FILLING PROCEDURES.

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

6. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.

7. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., ARE FOUND.

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

9. PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH. BRACE BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS AND SLABS ON GRADE ARE COMPLETE AND HAVE ATTAINED FULL DESIGN STRENGTH.

10. THE CONTRACTOR SHALL PROVIDE CARE IN DRILLING, PLACEMENT OF STEEL REINFORCEMENT, AND POURING OF CONCRETE TO AVOID DISTURBANCE OF PILE BORING WALLS. THE STEEL REINFORCEMENT CAGE SHALL BE INSTALLED AND CONCRETE SHALL BE PLACED INTO THE PILE HOLE IMMEDIATELY AFTER THE HOLE IS DRILLED. PILE HOLES SHALL NOT BE LEFT OPEN OVERNIGHT. WHERE PILE SPACING IS LESS THAN THREE DIAMETERS, DRILLING SHALL NOT BE CARRIED OUT BEFORE THE PREVIOUSLY POURED PILE CONCRETE HAS SET FOR AT LEAST TWENTY FOUR HOURS.

11. IN THE EVENT OF SOIL OR WATER SEEPAGE INTO THE PILE EXCAVATION, CASING AND/OR THE USE OF "POLYMER-SLURRY" DRILLING FLUID MAY BE REQUIRED IF CAVING IS ENCOUNTERED BELOW THE WATER SEEPAGE LEVEL. IN ORDER TO ACHIEVE THE REQUIRED DEPTH, AND MAINTAIN AN OPEN EXCAVATION TO ALLOW FOR THE PLACEMENT OF REINFORCING STEEL AND CONCRETE. CASING SHALL BE PULLED AS THE PILE EXCAVATION IS FILLED WITH CONCRETE, MAINTAINING AT LEAST FIVE FEET OF CONCRETE HEAD INSIDE THE CASING. CONCRETE SHALL BE PLACED AND VIBRATED THROUGHOUT THE FULL LENGTH OF THE PILE SO THAT VOIDS DO NOT EXIST IN EITHER THE PILE BASE OR THE SHAFT. PLACEMENT PROCEDURES SHALL BE USED TO ENSURE THAT AGGREGATE SEGREGATION DOES NOT OCCUR.

CONCRETE

1. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS NOTED OTHERWISE. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.

2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AND A MAX WATER CEMENT RATIO AND MAX SLUMP AS FOLLOWS:

   A. ALL CONCRETE U.N.O.: 3000 PSI NORMAL WEIGHT, MAX WATER TO CEMENT RATIO = 0.5, MAX SLUMP = 4"

3. ALL STRUCTURAL CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED LABORATORY AND SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER LICENSED IN CALIFORNIA.

4. CONCRETE MIXES SHALL BE PREPARED WITH TYPE II/V PORTLAND CEMENT CONFORMING TO ASTM C150. CONCRETE MIX DESIGNS CONTAINING FLY ASH MAY BE USED WHERE CONCRETE IS NOT VISUALLY EXPOSED. FLY ASH (CLASS F OR C) SHALL CONFORM WITH ASTM C618 AND MAY REPLACE UP TO 15% PORTLAND CEMENT BY VOLUME.

5. NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33. LIGHT WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330.

6. NO MORE THAN ONE GRADE OF CONCRETE SHALL BE ON THE JOB SITE AT ANY ONE TIME.

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

8. KEY AND DOWEL POUR JOINTS AS SHOWN ON THE PLANS. ANY DEVIATION FROM POUR JOINTS SHOWN ON THE PLANS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.

9. NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.

10. DEFECTIVE CONCRETE (VOIDS, ROCK POCKETS, HONEYCOMBS, CRACKING, ETC.) SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

REINFORCEMENT

1. ALL TYPICAL REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS NOTED OTHERWISE ON THE DRAWINGS (#3 BARS MAY BE GRADE 40 FOR AVAILABILITY)

A. SPIRALS SHALL BE COLD DRAWN BARS CONFORMING TO ASTM A-82. REINFORCING FOR DIAPHRAGMS AND FOUNDATIONS MAY BE GRADE 75 IN LIEU OF GRADE 60, AT THE CONTRACTOR'S OPTION. MAINTAIN OVERALL CAPACITY OF ELEMENTS WHERE GRADE 75 REINFORCING IS PROPOSED FOR USE. IN GENERAL, REDUCE REQUIRED STEEL AREA IN PROPORTION TO RATIO OF YIELD STRENGTH. MAINTAIN BAR SPACING SHOWN ON PLANS, DETAILS, AND SCHEDULES.

A. MOMENT FRAME LONGITUDINAL REBAR, SHEAR WALL VERTICAL REBAR, AND COUPLING BEAM LONGITUDINAL REBAR SHALL BE ASTM A-706 [Fy=60 KSI].

B. SMOOTH DOWELS IN SLAB ON GRADE: ASTM A36, 36 KSI

2. WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE NOT BE DONE UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWINGS, THE FOLLOWING SHALL APPLY:

   A. WELDED REBAR SHALL COMPLY WITH ASTM A-706 [Fy=60 KSI]
   B. WELDING SHALL CONFORM TO AWS D1.4
   C. WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY WELDERS CERTIFIED BY THE CITY OF LA
   D. USE E90XX ELECTRODES

3. WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A-185 [Fy=65 KSI]. MINIMUM LAP AT SPLICES OF 12 INCHES. PROVIDE MESH IN FLAT SHEETS ONLY. ROLLED MESH IS NOT ACCEPTABLE. OFFSET END-LAPS IN ADJACENT SHEETS TO PREVENT CONTINUOUS LAPS.

4. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER. SEE ACI FOR TOLERANCES:

   A. CONCRETE POURED AGAINST EARTH: 3"
   B. FORMED CONCRETE IN CONTACT WITH EARTH: 2"
   C. CONCRETE EXPOSED TO WEATHER (#6 AND LARGER): 2"
   D. CONCRETE EXPOSED TO WEATHER (#5 AND SMALLER): 1½"
   E. SLABS (INCLUDING SLAB SUPPORTING EARTH), WALLS, AND JOISTS NOT EXPOSED TO WEATHER (#11 AND SMALLER): 1"
   F. OTHER CONCRETE NOT EXPOSED TO WEATHER: 1½"

5. #5 AND LARGER REINFORCING BARS SHALL NOT BE SPLICED EXCEPT AS LOCATED AND DETAILED ON THE DRAWINGS. #4 AND SMALLER BARS WITH LENGTHS NOT SHOWN SHALL BE CONTINUOUS. PROVIDE CLASS 'B' SPLICE UNLESS NOTED OTHERWISE. ALL BARS IN MASONRY SHALL BE CONTINUOUS, LAPPING 48 BAR DIAMETERS, 2'-0" MINIMUM. HORIZONTAL WALL SPLICES SHALL BE STAGGERED. VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AT HORIZONTAL SUPPORTS, SUCH AS FLOOR OR ROOF, UNLESS DETAILED OTHERWISE. ALL BARS ENDING AT THE FACE OF A WALL, COLUMN, OR BEAM SHALL EXTEND TO WITHIN 2" OF THE FAR FACE AND HAVE A 90 DEGREE HOOK, UNLESS OTHERWISE SHOWN.

6. BARS SHALL BE FIRMLY SUPPORTED AND ACCURATELY PLACED AS REQUIRED BY THE ACI STANDARDS, USING TIE AND SUPPORT BARS IN ADDITION TO REINFORCEMENT SHOWN WHERE NECESSARY FOR FIRM AND ACCURATE PLACING. PROVIDE DOWELS TO MATCH ALL REINFORCEMENT AT POUR JOINTS, UNLESS SHOWN OR NOTED OTHERWISE. ALL DOWELS AND BOLTS SHALL BE ACCURATELY SET IN PLACE BEFORE PLACING CONCRETE. NO WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE DONE UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. ALL SLAB AND BEAM REINFORCEMENT SHALL BE CHAIRED UP.

7. IN WALL REINFORCING, CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE, VERTICAL BARS SHALL BE PLACED CLOSEST TO THE WALL SURFACE. IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING, THE LAYER WITH THE MOST STEEL SHALL BE PLACED CLOSEST TO THE NEAR SURFACE.

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

9. ALL PRINCIPAL REBAR SHALL TERMINATE WITH A STANDARD HOOK MINIMUM UNLESS SPECIFICALLY DETAILED OTHERWISE. REBAR BENDS SHALL BE MADE COLD. REBAR SHALL NOT BE BENT AFTER ANY PORTION OF THE BAR IS ENCASED IN CONCRETE.

10. ALL LAP SPLICES ARE CLASS 'B' LAP SPLICES UNLESS NOTED OTHERWISE.

11. ALL WALL FOOTING REINFORCEMENT SHALL BEND AROUND ALL CORNERS AND EXTEND 36 BAR DIAMETERS OR 18 INCHES WHICHEVER IS LARGER. UNLESS NOTED OTHERWISE.

12. ALL SLABS ON GRADE LESS THAN 6" IN THICKNESS SHALL BE REINFORCED WITH #4 REBARS AT 16 INCHES ON CENTERS EACH WAY, UNLESS NOTED OTHERWISE. PROVIDE ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC CONTINUOUS FOR EVERY 3" ARCHITECTURAL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB.

13. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS LESS THAN 4" THICK SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC AND HAVE HOOKED DOWELS (#3 AT 12' ON CENTERS) INTO THE STRUCTURAL SLAB. UNLESS NOTED OTHERWISE. FOR PADS GREATER THAN 4 INCHES THICK, USE REINFORCING AS SHOWN IN THE TYPICAL DETAILS.

14. ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AROUND ALL SLAB AND WALL OPENINGS INCLUDING DIAGONAL BARS WITHOUT EXCEPTION.

15. ALL STRUCTURAL CONCRETE ELEMENTS REQUIRE REINFORCEMENT SINCE NO PLAIN CONCRETE ELEMENTS ARE USED. ALL CONCRETE SLABS SHALL HAVE A MINIMUM REINFORCEMENT PERCENTAGE OF 0.0018 EACH WAY CONTINUOUS.

MASONRY

1. BLOCK SHALL BE MEDIUM WEIGHT (115 PCF) CONFORMING TO ASTM- C-90 GRADE N-1. USE UNITS OPEN ONE END, AND BOND BEAM UNITS AT HORIZONTAL REINFORCING. WHEN BLOCKS ARE EXPOSED OBTAIN APPROVAL OF SUBMITTAL FROM ARCHITECT. UNITS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET THE MASONRY COMPRESSIVE STRENGTH OF MASONRY f'm SPECIFIED ON THE PLANS AS FOLLOWS:

   A. 1,900 PSI FOR SPECIFIED f'm UP TO 1,500 PSI
   B. 2,800 PSI FOR SPECIFIED f'm UP TO 2,000 PSI
   C. 3,750 PSI FOR SPECIFIED f'm UP TO 2,500 PSI
   D. 4,800 PSI FOR SPECIFIED f'm UP TO 3,000 PSI

2. MIN. SPECIFIED COMPRESSIVE STRENGTH SHALL BE f'm = 2,000 PSI, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

3. CEMENT: ASTM C-150, LOW ALKALI, TYPE 1 OR 11 PORTLAND CEMENT. (MASONRY CEMENT AND PLASTIC CEMENT SHALL NOT BE USED)

4. MORTAR:
   A. CONFORMING TO ASTM C-270, TYPE [S].
   B. MIX PROPORTIONS SHALL CONFORM TO ASTM C-270.
   C. AGGREGATED SHALL CONFORM TO ASTM C-144.

5. GROUT:
   A. CONFORMING TO ASTM C-476.
   B. ATTAINS THE MASONRY COMPRESSIVE STRENGTH f'm OR 2,000 PSI AT 28 DAYS, WHICHEVER IS GREATER.
   C. MIX PROPORTIONS SHALL CONFORM TO ASTM C-476
   D. AGGREGATES SHALL CONFORM TO ASTM C-404
   E. USE COARSE GROUT IN GROUT SPACES 2 INCHES OR MORE IN WIDTH AND CELLS TO BE GROUTED SOLID.

6. ADMIXTURES: DO NOT USE ANY ADMIXTURES IN MORTAR OR GROUT WITHOUT APPROVAL BY THE ARCHITECT.

7. MEASURE MATERIALS FOR MORTAR AND GROUT IN CALIBRATED DEVICES. SHOVEL MEASUREMENTS ARE NOT ACCEPTABLE.

8. ADJUST THE WATER CONTENT OF THE MORTAR AND GROUT MIXES TO PROVIDE PROPER WORKABILITY UNDER EXISTING FIELD CONDITIONS WITHOUT SEGREGATION.

9. REINFORCING STEEL:
   A. REBAR: ASTM A-615, GRADE 60 (FY=60KSI).
   B. JOINT REINFORCEMENT: ASTM A-951

10. LAP REINFORCING STEEL AT SPLICES WITH A MINIMUM 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE. WHERE CLEAR DISTANCE BETWEEN BARS AT ADJACENT SPICES IS 3 INCHES OR LESS, INCREASE LAP LENGTH 30% UNLESS SPLICES ARE STAGGERED AT LEAST 24 BAR DIAMETERS.

11. DOWELS FOR WALLS AND COLUMNS SHALL MATCH SIZE AND SPACING OF WALL AND COLUMN REINFORCING STEEL.

12. MASONRY WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE LABC. AND THE 2019 MSJC SPECIFICATIONS.

13. CONCRETE BLOCK UNITS ARE TO BE STAGGERED & TO HAVE VERTICAL CONTINUITY OF CELLS UNOBSTRUCTED.

14. IF WORK IS STOPPED AN HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINT BY STOPPING GROUT 1½" BELOW TOP OF MASONRY UNIT.

15. SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY WORK.

16. GROUT ALL MASONRY WALLS SOLID. GROUTING LIFTS SHALL NOT EXCEED 5'-0" IN HEIGHT IN ACCORDANCE WITH 2019 MSJC SPECIFICATIONS.

17. THE CLEAR DISTANCE BETWEEN THE SURFACE OF A BAR AND ANY SURFACE OF A MASONRY UNIT SHALL BE NOT LESS THAN ½" FOR FINE GROUT AND NOT LESS THAN ½" FOR COURSE GROUT.

18. SECURE REBAR AGAINST DISPLACEMENT PRIOR TO GROUTING AT INTERVALS NOT GREATER THAN 200 BAR DIAMETERS.

19. TERMINATE HORIZONTAL BARS WITH A STANDARD HOOK AT THE JAMBS OF WALL OPENINGS.

20. VERIFY SPECIFIED COMPRESSIVE STRENGTH OF MASONRY IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS: MASONRY PRISM TESTING, MASONRY PRISM TEST RECORD OR UNIT STRENGTH METHOD. FIVE MASONRY PRISM TESTS SHALL BE BUILT AND TESTED PRIOR TO CONSTRUCTION. THREE MASONRY PRISM TESTS (PER 5,000 SQ. FT. OF FLOOR AREA, 3 MIN.) SHALL BE BUILT AND TESTED DURING CONSTRUCTION WHEN FULL STRESSES ARE USED IN DESIGN.

GENERAL

1. ALL NEW CONSTRUCTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE 2022 CALIFORNIA BUILDING CODE

2. REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.

3. TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE (U.N.O.)

4. THE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL MEMBERS.

5. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEPRESSIONS, EDGE OF SLAB, OPENINGS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, NON-BEARING PARTITIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, OPENINGS, AND HANGERS FOR PIPES, DUCTS AND EQUIPMENT.

6. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS WHICH IMPACT THE WORK. FIELD VERIFY SIZES, ELEVATIONS, HOLE LOCATIONS, ETC. PRIOR TO FABRICATION.

7. DRAWING DIMENSIONS ARE TO FACE OF STRUCTURE, JOINT CENTERLINE OR COLUMN GRID CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.

8. CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED. 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.

9. EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.

10. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

11. ANY DEVIATION, MODIFICATION & SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS & PRIOR TO PROCEEDING WITH THE WORK.

12. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES, GUYS, HOIST BEAM, 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 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.

13. 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.

14. THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.

15. A COPY OF ANY REQUIRED ICC ESR RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

16. ATTACHMENT OF NON-STRUCTURAL COMPONENTS SPECIFIED BY OTHERS TO STRUCTURAL ELEMENTS SHALL BE SPECIFIED BY THE NON-STRUCTURAL COMPONENT DESIGNER/SPECIFIER/INSTALLER. DESIGNER OF NON-STRUCTURAL ELEMENTS SHALL AT A MINIMUM SPECIFY THE CONNECTION TO THE STRUCTURE INCLUDING BUT NOT LIMITED TO: ANY TYPE OF CONNECTING HARDWARE, WIRE, HANGERS, FASTENERS, CLIPS, UNISTRUT MEMBERS. NON STRUCTURAL ELEMENTS SHALL INCLUDE, BUT NOT LIMITED TO: MEP AND HVAC EQUIPMENT & THEIR SUPPORTING PADS, PLATFORMS, FRAMES, ETC.; DUCTWORK, PIPES, CONDUITS, ARTWORK, GRILLES, GRATING, METAL SCREENS, ELEVATOR RAILS, STONE FINISH TILES, STONE CAPS, BRICK VENEER.

17. ALLOW FOURTEEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS AND SUBMITTALS AFTER RECEIPT.

DESIGN CRITERIA

DESIGN IS BASED ON 2022 CALIFORNIA BUILDING CODE (2022 CBC).

VERTICAL LIVE LOADS:
FLOOR LIVE LOAD: 100 PSF
ROOF LIVE LOAD: 20 PSF

SEISMIC FACTORS:
Ss = 1.99
S1 = 0.733
SITE CLASS: D (DEFAULT)
Fa = 1.0
SDS = 1.592
SEISMIC DESIGN CATEGORY: D
RISK CATEGORY: II

WIND FACTORS:
NOMINAL DESIGN WIND SPEED = 95 MPH
EXPOSURE CATEGORY = C
RISK CATEGORY = II

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
WILL A. LAMBERT
No. 5430
Exp. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

06/13/25

DSA V3

SHEET TITLE:

GENERAL NOTES

PROJECT NO.: 21-MPC-040	PROJECT ARCH: BA
DRAWN: EN	CHECKED: WL

SHEET NUMBER:

S000

DATE: 06/13/25	SHEET: ___ OF ___

STRUCTURAL STEEL WELDING

1. ALL WELDING SHALL BE IN STRICT CONFORMANCE WITH THE LATEST EDITION OF AWS D1.1 AND THE 2022 CALIFORNIA BUILDING CODE.
2. ALL WELDING ELECTRODES (FILLER METAL) SHALL BE E70XX (70 KSI), U.N.O., AND SHALL BE LOW HYDROGEN TYPES. FIELD WELDING OF FULL AND PARTIAL PENETRATION WELDS OF THE STEEL MOMENT FRAME CONNECTIONS BETWEEN MOMENT FRAME BEAMS AND MOMENT FRAME COLUMNS SHALL BE BY SHIELDED METAL ARC PROCESS USING LOW HYDROGEN ELECTRODES
3. ALL WELDS SHALL HAVE A FILLER METAL WITH CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AVERAGE AT -20 DEGREES FAHRENHEIT AND 40 FT/LBS @ 70 DEGREES FAHRENHEIT. CERTIFY CONFORMANCE TO CHARPY V-NOTCH TOUGHNESS REQUIREMENTS WITH TESTS BY AN INDEPENDENT TESTING LABORATORY.
4. LENGTHS OF WELDS ARE EFFECTIVE LENGTHS AS SPECIFIED IN THE APPLICABLE CODE. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE FULL LENGTH OF JOINT. ALL BUTT WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL PROVIDE FIELD WELDING AS REQUIRED FOR CONSTRUCTION. WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.
6. ALL SHOP WELDS SHALL BE PERFORMED BY A LICENSED FABRICATOR.
7. ALL WELDERS SHALL BE QUALIFIED FOR THE WORK THEY WILL BE DOING & SHALL HAVE CURRENT CERTIFICATIONS BY AWS.
8. 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.
9. 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.
10. CLEAN GROOVE PREPARATION THERMAL CUTS BY GRINDING.
11. 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.
12. 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.
13. THE CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURE SPECIFICATIONS (WPS) TO BE USED ON THE PROJECT PER THE LATEST EDITION OF AWS D1.1. THE WPS SHALL INCLUDE ALL MANUFACTURER'S DATA SHEETS FOR ALL WELDING MATERIALS TO BE USED. THE DATA SHEETS SHALL DESCRIBE THE PRODUCTS, LIMITATIONS OF USE, RECOMMENDED WELDING PARAMETERS, AND STORAGE AND EXPOSURE REQUIREMENTS.
14. ELECTRODES SHALL BE RECEIVED AND STORED IN THE ORIGINAL, UNDAMAGED MANUFACTURER PACKAGING, UNTIL READY FOR USE. WHEN WELDING IS TO BE SUSPENDED FOR MORE THAN 8 HOURS, ELECTRODES SHALL BE REMOVED FROM THE MACHINES AND STORED IN AN ELECTRODE WIRE OVEN MAINTAINED AT A TEMPERATURE BETWEEN 250 DEGREES AND 550 DEGREES OR AS RECOMMENDED BY THE MANUFACTURER. ELECTRODES NOT CONSUMED WITHIN 24 HOURS OF ACCUMULATED EXPOSURE OUTSIDE CLOSED OR HEATED STORAGE SHALL NOT BE USED.
15. ALL BOTTOM FLANGE BACKING BARS SHALL BE REMOVED. FOLLOWING REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED UNTIL FLUSH OR WITH SLIGHT REINFORCEMENT. THE SURFACE SHALL BE GROUND SMOOTH TO A SURFACE ROUGHNESS NOT TO EXCEED 500 MICROINCHES.
16. AT GALVANIZED SURFACES, GRIND OFF SURFACE FINISHES BEFORE PERFORMING WELD. SURFACES TO BE PAINTED

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AND THE LATEST EDITION OF AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS. WHERE THE STRUCTURAL STEEL IS EXPOSED, FABRICATION AND ERECTION SHALL ALSO BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION AS INDICATED BELOW (U.N.O.):

A. ALL PLATES & ANGLES	A36
B. PIPE COLUMNS	A53, GRADE B
C. ALL OTHER STRUCTURAL SECTIONS	A572, GRADE 50
D. ANCHOR BOLTS, MACHINE BOLTS, THREADED RODS	GRADE 36 (F1554 GR36, A36, A307-S1)
E. NUTS FOR BOLTS AND MACHINE BOLTS	A563
F. HARDENED WASHERS	F436
G. UNHARDENED WASHERS	F844
H. PLAIN WASHERS	ANSI B18.22.1
I. BEVELED WASHERS	ANSI B18.23.1

3. ALL STEEL SHALL BE PROVIDED BY A LICENSED FABRICATOR.
4. WHEN FABRICATING SIMPLY SUPPORTED BEAMS, PLACE NATURAL CAMBER UP.
5. SPLICE MEMBERS ONLY WHERE INDICATED.
6. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. HIGH STRENGTH BOLTS SHALL BE BEARING TYPE WITH THREADS EXCLUDED FROM THE FROM THE SHEAR PLANES (I.E. A325-X) UNLESS NOTED OTHERWISE.
7. ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS SHOWN OTHERWISE. MINIMUM SIZE OF BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE 3/4" DIA. EXCEPT WHEN OTHERWISE SHOWN OR NOTED.
8. ALL HOLES SHALL BE STANDARD DIAMETER U.N.O.
9. ALL FLANGE STIFFENER PLATES SHALL BE ORIENTED SO THAT ROLLING DIRECTION OF PLATE IS PARALLEL WITH DIRECTION OF PRINCIPAL STRESS.
10. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED FREE OF RUST, LOOSE MILL SCALE AND OIL.
11. PROVIDE FILLS AT SPLICES OF PARTS HAVING MORE THAN 1/8" DIFFERENCE IN THICKNESS.
12. PROVIDE BEVELED WASHERS ON ALL CONNECTIONS WHERE SLOPE SURFACE EXCEEDS 1:20.
13. HEADED ANCHOR STUDS AND THREADED STUDS SHALL BE NELSON GRANULAR FLUX-FILLED, AND SHALL BE MADE FROM COLD FINISHED LOW CARBON STEEL, CONFORMING TO A-108, GRADES 1015 - 1020 WITH A MINIMUM TENSILE STRENGTH OF 60,000 PSI. (COLA RR 2729). STUD WELDING INSPECTION AND TESTING SHALL CONFORM TO AWS D1.1.
14. DEFORMED BAR ANCHOR STUDS SHALL BE NELSON D2L GRANULAR FLUX-FILLED REBAR STUDS OR APPROVED EQUAL, AND SHALL BE MADE OF LOW CARBON COLD ROLLED STEEL WITH A MINIMUM TENSILE STRENGTH OF 80,000 PSI. STUD WELDING INSPECTION AND TESTING SHALL CONFORM TO AWS D1.1.
15. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
16. THE FULL DESIGN AND LOAD CARRYING CAPACITY OF THE STEELWORK SHALL NOT BE IMPAIRED DUE TO FABRICATION, SHIPMENT, OR ERECTION PROCEDURES, THROUGHOUT THE COMPLETE PROCESS. THE STABILITY OF ALL INDIVIDUAL MEMBERS AND ASSEMBLIES SHALL BE MAINTAINED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS AND WELD SHRINKAGE.
18. ALL ADDITIONAL STEEL REQUIRED FOR ERECTION PURPOSES SHALL BE PROVIDED AT NO ADDITIONAL COST AND SHALL BE REMOVED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE IN WRITING.

STATEMENT OF SPECIAL INSPECTION

1. CONTINUOUS AND PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE WORK AS DESCRIBED IN CBC 2022 CHAPTER 17A. SEE INSPECTION SCHEDULE BELOW. ONLY CHECKED ITEMS ARE REQUIRED.
2. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.
3. FOR VERIFICATION AND INSPECTION OF SOILS SEE SOILS REPORT.
4. CONTINUOUS SPECIAL INSPECTION PER AWS D1.1 IS REQUIRED FOR ALL STRUCTURAL STEEL WELDING, EXCEPT FOR SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE. WELDING INSPECTORS SHALL BE AWS Q.C.-1 CERTIFIED.
5. STRUCTURAL WOOD. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLDOWNS. EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM, WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER (O.C.). INSPECTIONS SHALL BE PERFORMED BEFORE COVERING.
6. CONTRACTORS RESPONSIBLE FOR CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THIS STATEMENT OF SPECIAL INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LADBS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH A SYSTEM OR COMPONENT PER SEC 1704A.4.

INSPECTION SCHEDULE

TYPE OF WORK	INSPECTION SCHEDULE	REMARKS	☒
CONCRETE WORK	CBC TABLE 1705A.3		☒
SHOTCRETE WORK	CBC TABLE 1705A.3		☐
REINFORCING STEEL	CBC TBL. 1705A.2.2 & 1705A.3		☒
POST INSTALL ANCHORS	CBC TABLE 1705A.3	SEE ALSO ICC APPROVAL	☐
STRUCTURAL STEEL	CBC TABLE 1705A.2		☐
STRUCTURAL STEEL WELDING	CBC TABLE 1705A.2		☐
HIGH STRENGTH BOLTING	CBC TABLE 1705A.2		☐
MASONRY WORK	CBC TABLE 1705A.4		☒
HIGH LOAD DIAPHRAGMS	CBC TABLE 1705A.5.1		☐
STRUCTURAL WOOD	CBC TABLE 1705A.10.1 & 1705A.11.2	SEE NOTE ABOVE	☐
			☐
COLD FORMED STEEL	CBC TABLE 1705A.10.2 & 1705A.11.3		☐
DRIVEN DEEP FOUND. ELEMENT	CBC TABLE 1705A.7		☐
CAST IN PLACE DEEP FOUND.	CBC TABLE 1705A.8		☐
SOIL CONDITION	CBC TABLE 1705A.6	SEE SOILS REPORT FOR COMPLIANCE	☒

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
WILL A. LAMBERT
No. 5430
Exp. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA
06/13/25

DSA V3

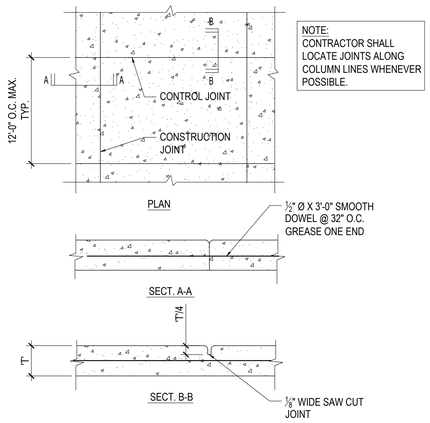
SHEET TITLE:

GENERAL NOTES

PROJECT NO: 21-MPC-040 | PROJECT ARCH: BA
DRAWN: EN | CHECKED: WL
SHEET NUMBER:

S001

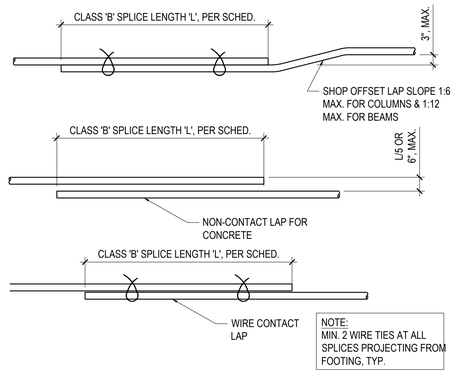
DATE: 06/13/25 | SHEET: ___ OF ___



NOTE:
CONTRACTOR SHALL LOCATE JOINTS ALONG COLUMN LINES WHENEVER POSSIBLE.

TYPICAL SLAB ON GRADE DETAIL

SCALE: 1"=1'-0" | 10



NOTE:
MIN. 2 WIRE TIES AT ALL SPLICES PROJECTING FROM FOOTING, TYP.

NOTES:

1. TOP BARS ARE HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE BELOW BARS.
2. BOTTOM BARS INCLUDE ALL VERTICALS, ALL HORIZONTAL WALL REINFORCING, AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF CONCRETE BELOW BARS.
3. A. USE CLASS B SPLICES U.N.O., ADJACENT BAR SPLICES SHALL BE STAGGERED THE GREATER OF THE LENGTH OF SPLICE OR 2'-0".
   B. USE CLASS C SPLICES WHERE NOTED.
   C. USE CLASS C SPLICES WHERE MORE THAN 49% OF BARS ARE TO BE SPLICED IN ONE LOCATION.
4. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZE BARS.
5. INCREASE SPLICE LENGTH BY 33% FOR LIGHTWEIGHT CONCRETE.

BAR DEVELOPMENT LENGTH (Ld) SCHEDULE

BAR SIZE	f'c = 2500 psi		f'c = 3000 psi		f'c = 4000 psi		f'c = 4500 psi	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	24"	18"	22"	17"	19"	15"	18"	15"
#4	32"	24"	29"	22"	25"	19"	24"	27"
#5	39"	30"	36"	28"	31"	24"	30"	23"
#6	47"	36"	43"	33"	37"	29"	35"	27"
#7	69"	53"	63"	48"	54"	42"	51"	40"
#8	78"	60"	72"	55"	62"	48"	59"	45"
#9	88"	68"	81"	62"	70"	54"	66"	51"
#10	98"	75"	90"	69"	78"	60"	73"	56"
#11	108"	83"	98"	76"	85"	66"	80"	62"

CLASS 'B' SPLICE LENGTH

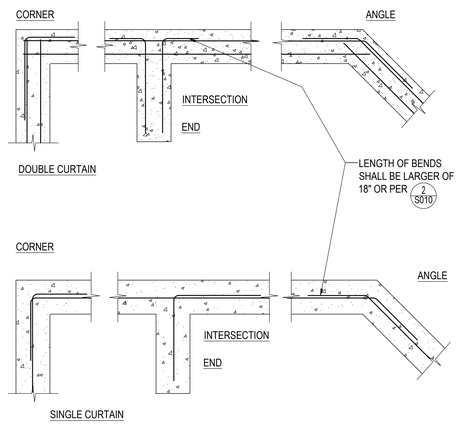
BAR SIZE	f'c = 2500 psi		f'c = 3000 psi		f'c = 4000 psi		f'c = 4500 psi	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	31"	24"	28"	22"	25"	20"	23"	20"
#4	41"	32"	38"	29"	33"	25"	31"	24"
#5	51"	39"	47"	36"	41"	31"	38"	30"
#6	61"	47"	56"	43"	49"	37"	46"	35"
#7	89"	69"	81"	63"	71"	54"	67"	51"
#8	102"	78"	93"	72"	81"	62"	76"	59"
#9	115"	88"	105"	81"	91"	70"	86"	66"
#10	127"	98"	116"	90"	101"	78"	95"	73"
#11	140"	108"	128"	98"	111"	85"	104"	80"

NOTES:

1. MINIMUM SPLICE LENGTH FOR BARS WITH CLASS 'B' SPLICE PER ACI-318-19, SECTION 12.2.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
3. THESE BAR DEVELOPMENT LENGTH APPLY TO REGULAR OR NORMAL WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.33 FOR LIGHT WEIGHT CONCRETE.
4. ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THESE SCHEDULES UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.

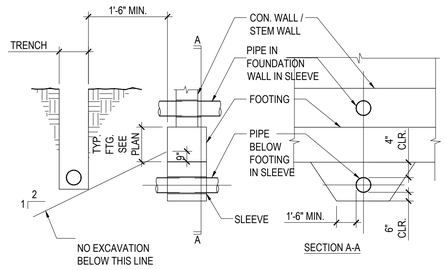
TYP. REINF. DEVELOPMENT LENGTH & LAP SPLICE SCHEDULE

SCALE: 1"=1'-0" | 9



REBAR AT INTERSECTION

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

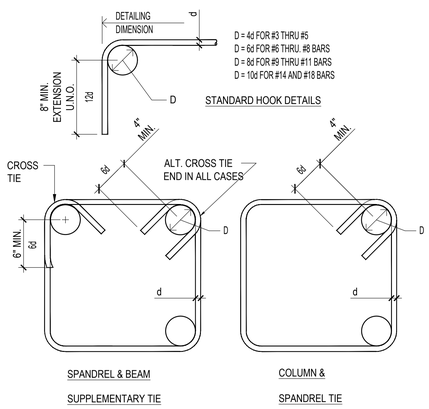


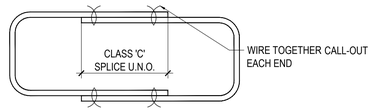
NOTE:

NO PIPE OR CONDUIT SHALL PASS HORIZONTALLY THROUGH FOOTING. PROVIDE SLEEVE MIN. 1" Ø LARGER THAN PIPE OR 1" FOAM WRAP.

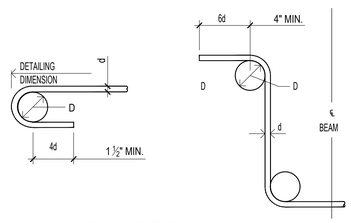
PIPE OR CONDUIT AT FOOTING

SCALE: 1"=1'-0" | 5





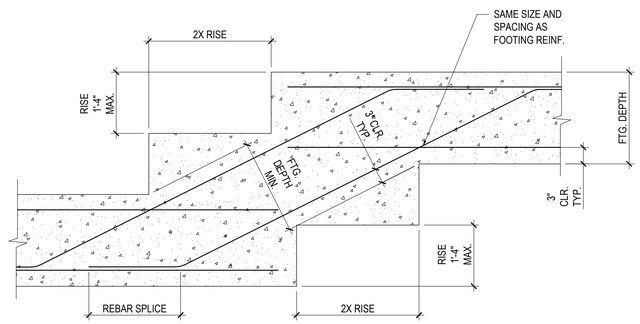
TIE LAP DETAIL



BEAM & JOIST STIRRUP

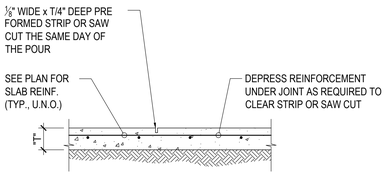
TYPICAL STANDARD HOOK DETAIL

SCALE: 1"=1'-0" | 2

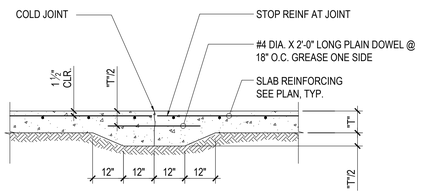


TYPICAL STEPPED FOOTING

SCALE: 1"=1'-0" | 3



CONTROL JOINT (WHERE CONTINOUS POUR IS USED) A



TYPICAL CONSTRUCTION JOINT B

NOTE:

1. CONTROL JOINTS TO BE LOCATED AT COLUMN CENTER LINES AND AT 20'-0" O.C. MAX. AND EVERY 400 SQUARE FEET.
2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR.
3. SEE PLAN FOR "T".

JOINTS AT SLAB ON GRADE

SCALE: 1"=1'-0" | 12

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DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

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AMADOR

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Orion Structural Group, Inc.
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STAMPS/SEALS

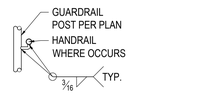
REGISTERED PROFESSIONAL ENGINEER
WILL A. LANGE
No. 5430
Exp. 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA
06/13/25

DSA V3

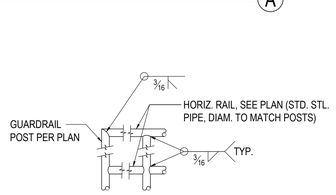
SHEET TITLE:

TYPICAL DETAILS

PROJECT NO: 21-MPC-040 | PROJECT ARCH: BA
DRAWN: EN | CHECKED: WL
SHEET NUMBER: S010
DATE: 06/13/25 | SHEET: ___ OF ___

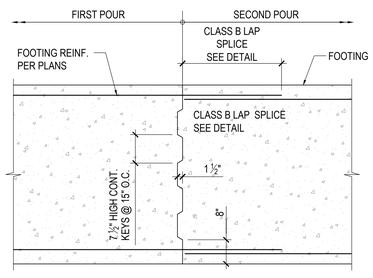


HANDRAIL TO POST (A)



TYPICAL RAILING MEMBER ATTACHMENTS (B)

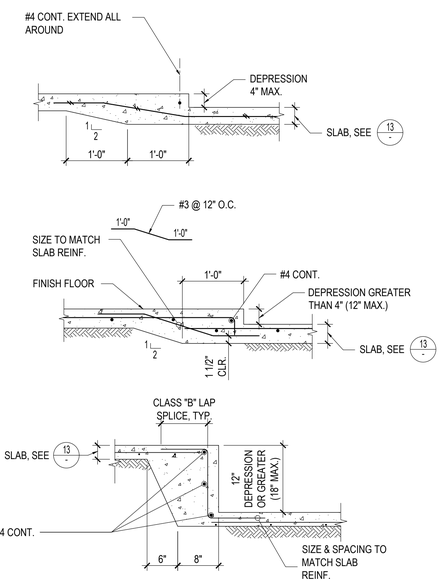
TYPICAL RAILING CONNECTIONS SCALE: 1"=1'-0" 23



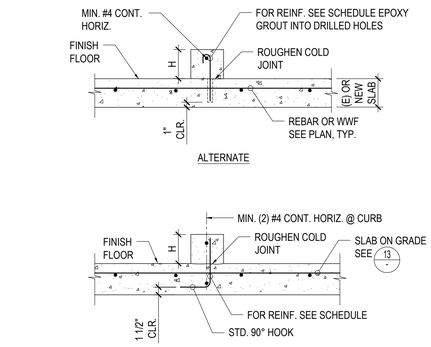
PLAN VIEW

NOTE :
WELDED SPLICES REQUIRED FOR #14 AND LARGER BARS. WHERE CONTINUOUS FOOTING IS UNDER A WALL, LOCATE CONSTRUCTION JOINT AT 1/4 OF THE CLEAR OPENING WIDTH ABOVE FROM FACE OF OPENING, OR IN MIDDLE 1/3 OF THE DISTANCE BETWEEN COLUMNS.

CONT. FTG. CONSTRUCTION JOINT SCALE: 1"=1'-0" 24



SLAB ON GRADE DEPRESSION SCALE: 1"=1'-0" 20

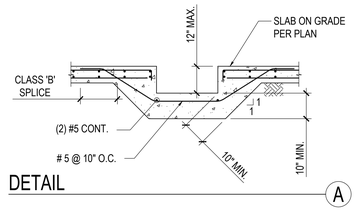


CURB REINFORCING SCHEDULE		
MAX. "H"	VERTICAL	HORIZ.
8"	#3 @ 18"	
18"	#4 @ 18"	
4'-0"	#4 @ 12"	#4 @ 12"

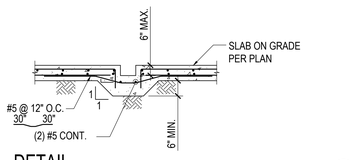
REINF. TO BE PLACED IN CURB WALL &

NOTE:
1. SEE ARCH'L. DWGS FOR CURB LOCATION & SIZE

CONCRETE CURB DETAIL SCALE: 1"=1'-0" 21

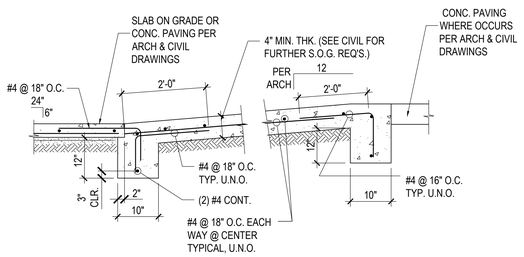


DETAIL (A)



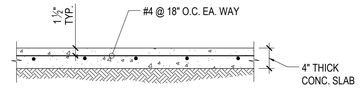
DETAIL (B)

TRENCH DRAIN DETAIL SCALE: 1"=1'-0" 17



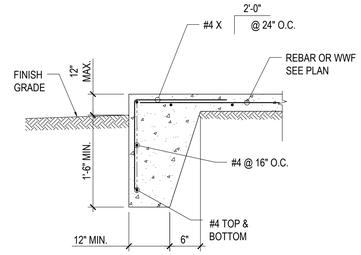
NOTES:
FOR DIMENSIONS AND DETAILS NOT SHOWN, REFER TO ARCHITECTURAL & CIVIL DRAWINGS.

TYPICAL RAMP ON GRADE DETAIL SCALE: 1"=1'-0" 18

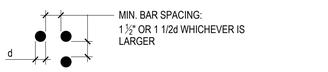


SEE SOILS REPORT FOR SUBGRADE PREPARATION

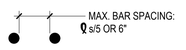
TYPICAL SLAB ON GRADE SCALE: 1"=1'-0" 13



SLAB ON GRADE EDGE DETAIL SCALE: 1"=1'-0" 14



BAR SPACING FOR NON-SPLICED BARS (A)



BAR SPACING FOR BARS SPLICED W/ NON-CONTACT LAP (B)

BAR SPACING SCALE: 1"=1'-0" 15

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TYPICAL DETAILS

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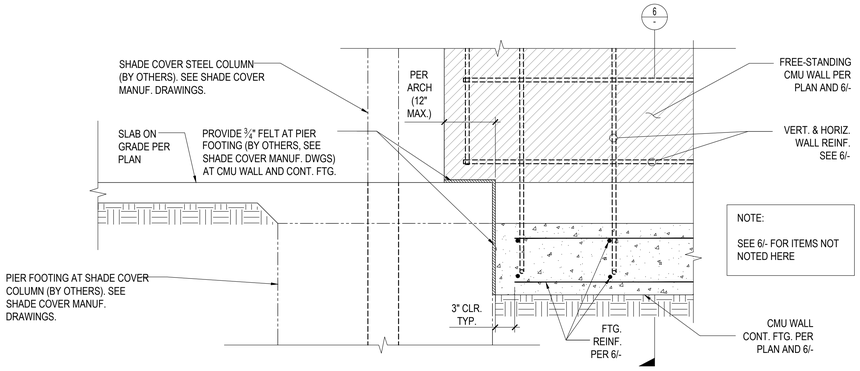
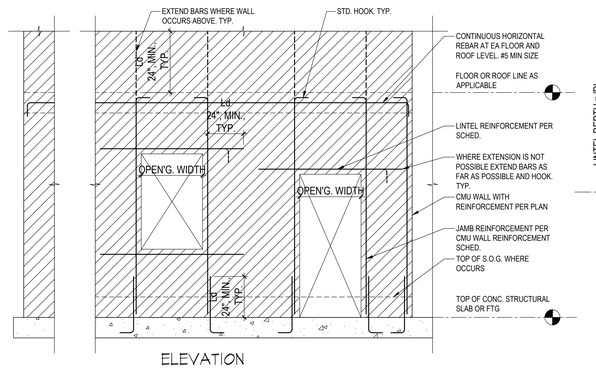
DRAWN: EN | CHECKED: WL
SHEET NUMBER:

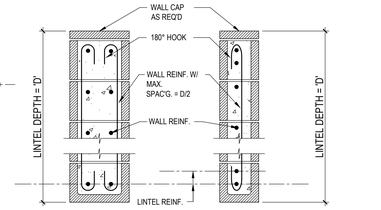
S011

DATE: 06/13/25 | SHEET: __ OF __



FELT JOIST AT CMU WALL AND CONTINUOUS FOOTING AT SHADE COVER PIER FOOTING — NOT TO SCALE — 9





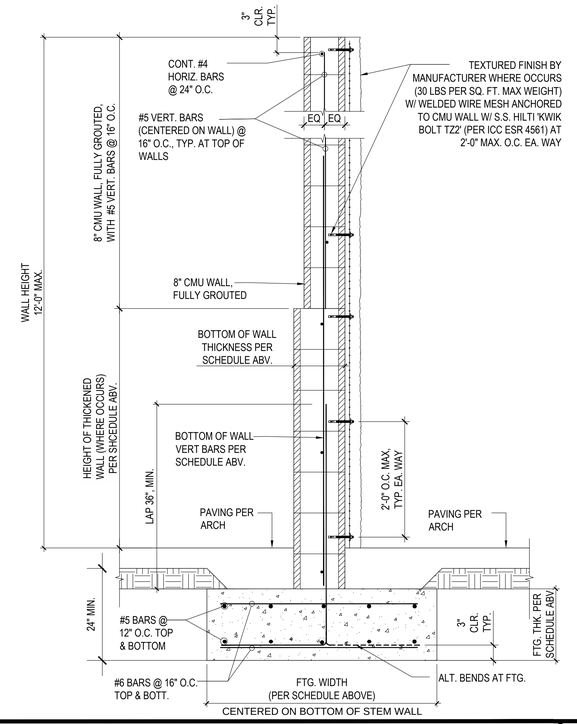
LINTEL REINFORCEMENT SCHEDULE

OPN'G WIDTH	MIN. DEPTH 'D'	REINF.	NOTES
UP TO 5'-0"	18"	2-#4	(2) - #4 BARS AT TOP & BOTT.
5'-1" TO 7'-0"	24"	2-#5	(2) - #5 BARS AT TOP & BOTT.
7'-1" TO 10'-0"	24"	2-#6	(2) - #6 BARS AT TOP & BOTT.

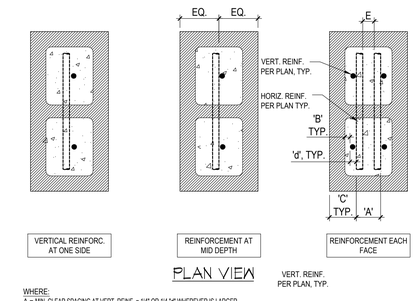
TYPICAL MINIMUM REINF. AT CMU WALL OPENINGS AND LINTELS — NOT TO SCALE — 10

FREESTANDING CMU WALL & FOOTING SCHEDULE

WALL HEIGHT	MIN. HEIGHT OF THICKENED WALL	BOTTOM OF WALL THICKNESS	BOTTOM OF WALL VERT. BARS	FOOTING WIDTH	FOOTING THICKNESS	FTG. REINFORCEMENT
UP TO 6'-0"	N/A	8" MIN.	#5 @ 16" O.C.	4'-1"	14"	#6 @ 16" O.C. EA. WAY AT T&B
6'-1" TO 8'-0"	N/A	8" MIN.	#5 @ 8" O.C.	5'-3"	14"	#6 @ 16" O.C. EA. WAY AT T&B
8'-1" TO 10'-0"	4'-0" MIN.	10" MIN.	#5 @ 8" O.C.	6'-1"	14"	#6 @ 16" O.C. EA. WAY AT T&B
10'-1" TO 12'-0"	6'-0" MIN.	10" MIN.	#7 @ 8" O.C.	7'-8"	18"	#7 @ 16" O.C. EA. WAY AT T&B

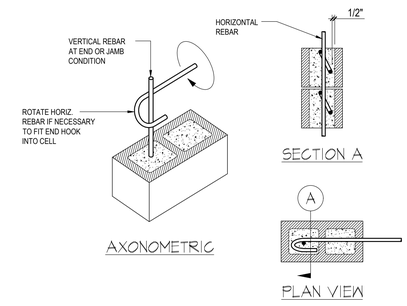


SECTION AT CMU WALL & FOOTING — NOT TO SCALE — 6

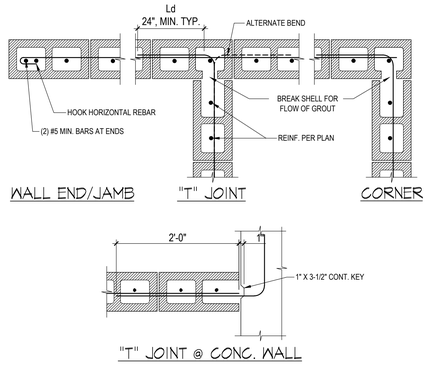


WHERE:
A = MIN. CLEAR SPACING AT VERT. REINF. = 1/4" OR 1/4 "d" WHEREVER IS LARGER
B = 1/4" MIN
C = MIN. CLEAR COVER 1/4" AND 2.5 "d" WHEREVER IS LARGER EXCEPT A MINIMUM OF 2" BELOW GRADE SHALL BE PROVIDED
"d" = DIAMETER OF LARGER BAR
E = MIN. CLEAR SPACING AT HORIZ. REINF. = 1" OR "d" WHEREVER IS LARGER

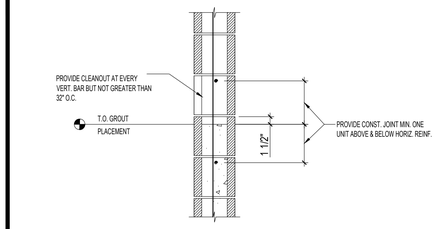
TYPICAL REINF. PLACEMENT IN CMU WALL — NOT TO SCALE — 1



HOOK ARRANGEMENT AT WALL END — NOT TO SCALE — 2

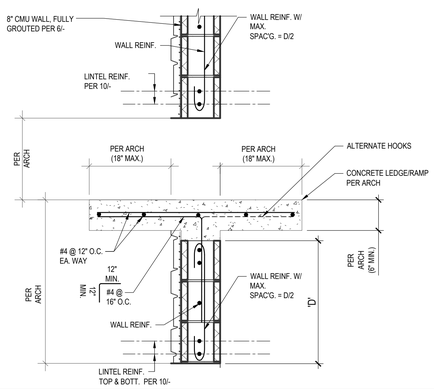


REINF. STEEL AT CMU END AND INTERSECTIONS — NOT TO SCALE — 3

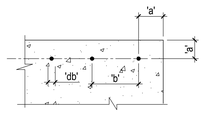


NOTE:
1. PROVIDE CONSTRUCTION JOINTS WHEN GROUTING IS STOPPED FOR MORE THAN 1 HOUR.

TYPICAL HORIZONTAL CONSTRUCTION JOINT — NOT TO SCALE — 11



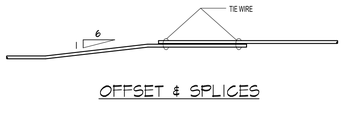
CONCRETE LEDGE AND CMU WALL OPENING DETAIL — NOT TO SCALE — 7

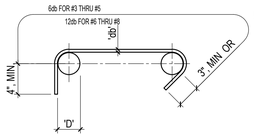


WHERE: 'a' IS THE CLEAR COVER
'b' IS THE CLEAR SPACING
'db' IS THE BAR DIA.

NOTES:
1. LENGTHS SHOWN ARE FOR GRADE 60 UNCOATED BARS.
2. LENGTHS SHOWN ARE IN INCHES.
3. BAR BUNDLES ARE NOT ALLOWED

TENSION LAP SPLICE SCHEDULE

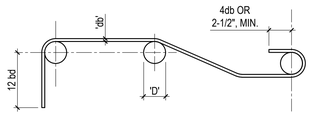




MIN. BEND DIA. (STIRRUPS & TIES)

BAR	D
#3	1 1/2"
#4	2"
#5	2 1/2"
#6	4 1/2"

STANDARD HOOK DETAILS FOR STIRRUPS & TIES



MIN BEND DIA. (PRINCIPAL REINF.)
D = 6db FOR #3 THRU #8
D = 8db FOR #9

STANDARD HOOK DETAILS FOR PRINCIPAL REINFORCEMENT

DEVELOPMENT LENGTH (ld) / LAP SPLICE

BAR SIZE	1500 PSI CMU f'm		2000 PSI CMU f'm		2500 PSI CMU f'm		3000 PSI CMU f'm	
	1-LAYER	2-LAYER	1-LAYER	2-LAYER	1-LAYER	2-LAYER	1-LAYER	2-LAYER
#3	16	16	14	14	12	12	11	12
#4	21	26	18	22	16	20	15	18
#5	26	40	22	35	20	31	18	28
#6	49	74	42	64	38	58	34	53
#7	69	101	60	87	53	78	49	71
#8	108	151	93	131	84	117	76	107
#9	143	193	124	167	111	149	102	136

TYPICAL MASONRY REINF. DETAILS AND TENSION LAP SPLICE SCHEDULE — NOT TO SCALE — 8

NOT TO SCALE — 4

NOT TO SCALE — 15

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — WILL A. LAMBERT — No. 5430 — Exp. 08/30/2026 — STRUCTURAL — STATE OF CALIFORNIA
06/13/25

DSA V3

SHEET TITLE:

TYPICAL DETAILS

PROJECT NO: 21-MPC-040 | PROJECT ARCH: BA
DRAWN: EN | CHECKED: WL
SHEET NUMBER: S012
DATE: 06/13/25 | SHEET: ___ OF ___

EQ EQ

FENCE PER ARCH DRAWINGS

CHAIN LINK GATE PER ARCH DRAWINGS TYP. AT OPENINGS IN FENCE

FENCE POST AND FOOTING PER ARCH DRAWINGS

STEEL COLUMNS & FOOTINGS (BY OTHERS) PER SHADE COVER MANUF. DRAWINGS. TYP.

COVERED STORAGE

CONC. S.O.G. PER TYP. DETAILS (4" MIN. THK. W/ #4 @ 18" O.C. EA. WAY U.N.O.)

COLUMN AND FOOTING BY OTHERS. SEE SHADE COVER MANUF. DRAWINGS. TYP.

PROVIDE ¾" FELT AT RET. WALL & FTG. TO SHADE COVER COLUMN PIER FOOTING (BY OTHERS) PER 9/S012

BACKSTAGE AREA/ ANIMAL SHELTER

COVERED STORAGE

NOTE: NEW PILES TO RECIEVE NEW SURCHARGE FROM ADJACENT FREE-STANDING WALL FOOTING (WHERE OCCURS)

1'-5 31/32"

FENCE PER ARCH DRAWINGS

C.F.

6 S012

9 S012

6 S012

PER 06/S012 TYP.

C.F.

3'-0"

1'-0" MIN. TYP.

8" MIN. THICK FULLY GROUTED CMU WALL PER 06/S012 & TYP. DETAILS, TYP.

PER 06/S012 TYP.

6 S012

C.F.

3" CLR. MIN.

PER 06/S012 TYP.

PER ARCH TYP.

PER ARCH TYP.

PER ARCH TYP.

REINF. AROUND OPENINGS IN WALL PER 10 S012

1'-0" MIN.

C.F.

6 S012

8" MIN. THICK FULLY GROUTED CMU WALL PER 06/S012 & TYP. DETAILS, TYP.

REINF. AROUND OPENINGS IN WALL PER 10 S012

C.F.

6 S012

PER ARCH TYP.

PER 06/S012 TYP.

19 S011 AT (N) FTG. TO (E) FTG.

PAVING PER ARCH. TYP THROUGHOUT

NOTE: NEW PILES TO RECIEVE NEW SURCHARGE FROM ADJACENT FREE-STANDING WALL FOOTING (WHERE OCCURS)

FENCE PER ARCH DRAWINGS

FOOTINGS (DEFERRED APPROVAL ITEM) PER BLEACHER MANUF. DRAWINGS. TYP.

EXIST. ONE STORY BLDG. 22
A# 40577

3" MIN CLR. TYP

1'-0" MIN. TYP.

PER 06/S012 TYP.

6 S012

C.F.

C.F.

8" MIN. THICK FULLY GROUTED CMU WALL PER 06/S012 & TYP. DETAILS, TYP.

3" MIN CLR. TYP

STEEL COLUMNS & FOOTINGS (BY OTHERS) PER SHADE COVER MANUF. DRAWINGS. TYP.

STEEL COLUMNS & FOOTINGS (BY OTHERS) PER SHADE COVER MANUF. DRAWINGS. TYP.

NOTE: NEW PILES TO RECIEVE NEW SURCHARGE FROM ADJACENT FIRE LANE (WHERE OCCURS)

BLEACHERS PER MANUFACTURER'S DRAWINGS

FOUNDATION LEGEND

C.F. — INDICATES CONCRETE CONTINUOUS FOOTING AT PER 06/S012 & TYP. DETAILS

8" MIN. THICK FULLY GROUTED CMU WALL PER 06/S012 & TYP. DETAILS

FOOTING PER SHADE COVER MANUF. DRAWINGS (BY OTHERS) TYP.

FENCE POST FOOTING PER ARCH. DRAWINGS

NOTE: SEE ARCH, MEP, & MANUF. DRAWINGS FOR INFO AND DIMENSIONS NOT SHOWN HERE. MINIMUM FOOTING SIZES PER MANUF. T.B.D. AND WILL BE SHOWN IN FOLLOWING SUBMITTAL AFTER REVIEWING MANUF. DWGS.

NORTH

FOUNDATION PLAN

1/4" = 1'-0"

1

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MOORPARK COLLEGE

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PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
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No. 5430
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STATE OF CALIFORNIA
06/13/25

DSA V3

SHEET TITLE:

FOUNDATION PLAN

PROJECT NO: 21-MPC-040 | PROJECT ARCH: BA
DRAWN: EN | CHECKED: WL

SHEET NUMBER:

S111

DATE: 06/13/25 | SHEET: ___ OF ___

PLUMBING NOTES

1. SCOPE OF WORK: INSTALL ALL PLUMBING FIXTURES AND EQUIPMENT SHOWN ON THE PLUMBING PLANS INCLUDING FURNISHING AND INSTALLING ALL ASSOCIATED PIPING, VALVES, STOPS, TRAPS, DRAINS, ESCUTCHEONS, ETC.. ALSO FURNISH AND INSTALL ALL PIPING AND PLUMBING FIXTURES SHOWN ON THE CIVIL, PLUMBING AND ARCHITECTURAL DRAWINGS AND DESCRIBED IN THESE NOTES AND THE BOOK SPECIFICATIONS. IN CONNECTION WITH THIS WORK, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY LABOR, DEVICES, HARDWARE AND SYSTEMS REQUIRED TO MAKE SAID SYSTEMS PROPERLY AND SAFELY OPERABLE, INCLUDING, BUT NOT LIMITED TO, SAW CUTTING, TRENCHING AND BACKFILL, PATCHING & FILLING OF UNUSED PENETRATIONS, MOUNTING AND SUPPORT HARDWARE, FRAMING, INSULATION, VALVES, AND CLEANOUTS.

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF. BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE OWNER'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT. THE SUBMISSION OF A BID PROPOSAL SHALL BE DEEMED PRIMA FACIE EVIDENCE OF THE BIDDER'S FULL COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION.

3. INTERPRETATION OF DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE OWNER OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION. FAILURE TO REQUEST INTERPRETATION OR CLARIFICATION OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS PURSUANT TO THE FOREGOING SHALL BE DEEMED TO BE A WAIVER OF ANY DISCREPANCY, DEFECT, OR CONFLICT THEREIN.

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER. ALL PLUMBING FIXTURES SHALL BE INSTALLED PER THE DIMENSIONS ON THE ARCHITECTURAL DRAWINGS.

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA PLUMBING CODE, THE 2022 CALIFORNIA MECHANICAL CODE, THE 2022 CALIFORNIA DIVISION OF THE STATE ARCHITECT, AND STANDARD CONSTRUCTION PRACTICES. ALL PLUMBING FIXTURES SHALL BE IN STRICT ACCORDANCE WITH THE FIXTURE SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA, AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND GENERAL CONTRACTOR / OWNER. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN.

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING FIXTURES AND MATERIALS, CONTRACTOR SHALL FURNISH SUBMITTALS OF ALL FIXTURES AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ALL FIXTURES AND MATERIALS SHALL BE INSTITUTIONAL GRADE HEAVY DUTY QUALITY. ORDERING OF FIXTURES AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY ENGINEER / OWNER. COPIES OF ALL OWNER'S MANUALS, WARRANTIES, AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE SUBMITTED TO OWNER.

7. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. TRENCHING: MATERIAL SHALL BE EXCAVATED FROM TRENCHES AND PILED ADJACENT TO THE TRENCH. MATERIAL SHALL BE PILED IN SUCH A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO PUBLIC TRAVEL. ALL ROCK, BOULDERS, AND STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF SIX (6) INCHES UNDER AND AROUND PIPES. EXCAVATIONS SHALL BE KEPT FREE OF WATER. TRENCHES SHALL BE DUG TO TRUE AND SMOOTH BOTTOM GRADES AND IN ACCORDANCE WITH THE LINES INDICATED ON DRAWINGS AND AS DIRECTED. TRENCH WIDTHS SHALL NOT EXCEED 30 INCHES OR 1.5 TIMES OUTSIDE DIAMETER OF THE PIPE PLUS 18 INCHES WHICHEVER IS GREATER. MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF PIPE INSTALLED PLUS 12 INCHES.

DEPTH OF TRENCHING FOR WATER AND GAS PIPING SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 18 INCHES OVER THE TOP OF THE PIPE, DEEPER EXCAVATION MAY BE REQUIRED DUE TO LOCALIZED BREAKS IN GRADE, OR TO INSTALL THE NEW PIPING UNDER EXISTING CULVERTS OR OTHER UTILITIES WHERE NECESSARY.

TRENCHING FOR SEWERS AND DRAINS SHALL BE OF SUFFICIENT WIDTH TO PERMIT PROPER JOINTING OF THE PIPE AND BACKFILLING OF MATERIAL ALONG THE SIDES OF THE PIPE. TRENCH WIDTH AT THE SURFACE OF THE GROUND SHALL BE KEPT TO THE MINIMUM AMOUNT NECESSARY TO INSTALL THE PIPE IN A SAFE MANNER. TRENCHES SHALL BE EXCAVATED BELOW THE BARREL OF THE PIPE A SUFFICIENT DISTANCE TO PROVIDE FOR BEDDING MATERIAL

WHERE THE TRENCH BOTTOM IS IN A MATERIAL WHICH IS UNSUITABLE FOR FOUNDATION OR WHICH WILL MAKE IT DIFFICULT TO OBTAIN UNIFORM BEARING FOR THE PIPE, SUCH MATERIAL SHALL BE REMOVED AND A STABLE FOUNDATION PROVIDED. THIS SHALL INCLUDE THE PREPARATION OF THE NATIVE TRENCH BOTTOM AND/OR THE TOP OF THE FOUNDATION MATERIAL TO A UNIFORM GRADE (2" MIN. THICK SAND) SO THAT THE ENTIRE LENGTH OF PIPE RESTS FIRMLY ON A SUITABLE PROPERLY COMPACTED MATERIAL. GRAVEL TO BE USED FOR FOUNDATION PURPOSES SHALL BE OF A TYPE AND GRADATION TO PROVIDE A SOLID COMPACT BEDDING IN THE TRENCH.

9. BACKFILL: CONTRACTOR SHALL COMPLETE BEDDING AND THEN BACKFILL TO 6 INCHES OVER THE TOP OF THE PIPE WITH SAND BEFORE STARTING BACKFILLING OPERATIONS. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE PIPE FROM DAMAGE, MOVEMENT AND SHIFTING. COMPACTION EQUIPMENT USED ABOVE THE PIPE ZONE SHALL BE OF A TYPE THAT DOES NOT INJURE THE PIPE. WHERE ORIGINAL EXCAVATED MATERIAL IS UNSUITABLE FOR TRENCH BACKFILL, BACKFILL GRAVEL SHALL BE PLACED. UNSUITABLE MATERIAL SHALL BE REMOVED TO A DISPOSAL AREA. WHEREVER A TRENCH IS EXCAVATED IN A PAVED ROADWAY, SIDEWALK OR OTHER AREA WHERE MINOR SETTLEMENTS WOULD BE DETRIMENTAL AND WHERE NATIVE EXCAVATED MATERIAL IS NOT SUITABLE FOR COMPACTION AS BACKFILL, TRENCH SHALL BE BACKFILLED WITH BACKFILL GRAVEL. WARNING TAPE MARKERS AND TRACER WIRES SHALL BE INSTALLED DURING BACKFILL OPERATIONS.

10. WATER PIPING: ALL UNDERGROUND SITE PIPING SHALL BE PVC SCHEDULE 40 WITH SOLVENT WELDED JOINTS. ALL ABOVE GROUND COLD AND HOT WATER PIPES IN BUILDINGS SHALL BE U.S. MANUFACTURED TYPE "L" HARD COPPER WITH (NON-LEAD) SOLDER SWEAT JOINTS. ALL UNDERGROUND WATER PIPING IN BUILDINGS SHALL BE U.S. MANUFACTURED TYPE "K" SOFT COPPER, WITH NO JOINTS ALLOWED UNDER SLABS. UNDERGROUND JOINTS SHALL BE BRAZED.

11. WATER PRESSURE: IF WATER PRESSURE IS IN EXCESS OF 80 PSI, AN APPROVED WATER PRESSURE REGULATOR AND PRESSURE RELIEF VALVE SHALL BE INSTALLED.

12. WASTE PIPING: ALL DRAINS, VENTS, FITTINGS, AND THE BUILDING DRAIN SHALL BE U.S. MANUFACTURED PVC SCH 40 WITH SOLVENT WELDED FITTINGS.

13. CLEANOUTS: CLEANOUTS TO GRADE SHALL BE J.R. SMITH 4253S OR EQUAL WITH BRONZE PLUG AND NON-SKID COVER WITH LIFTING DEVICE SET FLUSH WITH SURFACE FOR PAVED AREAS. NON-TRAFFIC OR NON-SURFACED AREAS SHALL BE INSTALLED WITH CAST IRON CLEANOUT RISERS TERMINATING WITH BRONZE PLUG WITHIN CONCRETE YARD BOX WITH CAST IRON COVER AND THE WORDS "BUILDING SEWER CLEANOUT" MARKED ON COVER.

14. TESTING: ALL PIPING AND FIXTURES INSTALLED SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA PLUMBING CODE AND THE LOCAL JURISDICTION AND COLLEGE DISTRICT STANDARDS.

15. MANDATORY ENERGY MEASURES: PLUMBING EQUIPMENT SUBJECT TO CCR TITLE 24, PART 6, SHALL BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS 111, 113, 114, AND 115. SAID PLUMBING EQUIPMENT SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTION 123.

16. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK THE COLLEGE DISTRICT FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS. IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM THE COLLEGE TO DO SO.

17. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE COLLEGE PRIOR TO ACCEPTANCE OF THE PROJECT.

18. COMPONENT PARTS ARE FULLY FREE FROM DEFECTIVE DESIGN, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF THREE YEARS FROM THE DATE OF FINAL ACCEPTANCE BY THE COLLEGE DISTRICT.

19. CLEANUP: CONTRACTOR SHALL THOROUGHLY CLEAN ENTIRE JOBSITE EVERY DAY OF ALL DEBRIS ASSOCIATED WITH PLUMBING INSTALLATION.

20. COORDINATION: CONTRACTOR SHALL COORDINATE WITH THE COLLEGE'S PROJECT MANAGER AND ALL RELATED TRADES.

FIXTURE SCHEDULE

SYMBOL	WASTE	VENT	CW	HW	DESCRIPTION
HB 1	-	-	3/4	-	HYDRANT, WITH ANTI-SIPHON, VACUUM BREAKER, LOOSE TEE KEY AND HOSE CONNECTION. WOODFORD MODEL 24 OR EQUAL.
DF 1	1-1/4	-	1/2	-	DRINKING FOUNTAIN. ELKAY MODEL LK4430BF1U, OUTDOOR EZH2O BOTTLE FILLING STATION TRI-LEVEL PEDESTAL, NON-FILTERED, NON-REFIGERATED. SEE ARCHITECT FOR HEIGHTS, LOCATION, & COLOR. ANCHOR UNIT TO SLAB.
SOV 1	-	-	-	-	SHUT-OFF VALVE. NIBCO S-685-80-LF. 1/2" THRU 2", BRONZE BALL VALVE, FULL PORT, SOLDER END. BRASS BALL VALVE, FULL PORT, IN CHRISTY YARD BOX.
SOV 1	-	-	-	-	SHUT-OFF VALVE. NIBCO S-685-80-LF. 1/2" THRU 2", BRONZE BALL VALVE, FULL PORT, SOLDER END. BRASS BALL VALVE, FULL PORT, IN CHRISTY YARD BOX.
SOV 2	-	-	-	-	FILL/DRAIN VALVE. U45TB OR EQUAL. SIZE ON PLANS. DOUBLE UNION BALL VALVE. LOCATED IN YARD BOX.
FD 1	2	-	-	-	FLOOR DRAIN. JR SMITH MODEL #2005Y-B-P, ZURN MODEL #415 J OR EQUAL. WITH SQUARE TOP, NO HUB.

ABBREVIATIONS

ABBREV	ABBREVIATIONS
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATILY
BLW	BELOW
BFF	BELOW FINISHED FLOOR
BOT | BTM	BOTTOM
BLDG	BUILDING
CLG	CEILING
CD	CEILING DIFFUSER
CL	CENTERLINE
CONC	CONCRETE
COND	CONDENSATE
CONT	CONTINUATION
COTG	CLEAN-OUT TO GRADE
DIA	DIAMETER
DCW	DOMESTIC COLD WATER
DN | DWN	DOWN
DS	DOWN SPOUT
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC
EL | ELEV	ELEVATION
EQ | EQUIP	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FIN	FINISHED
FLR	FLOOR
FRM	FROM
FU	FIXTURE UNIT
GPM	GALLONS PER MINUTE
GALV	GALVANIZED
GSM	GALVANIZED STEEL METAL
G	GAS
HP	HORSE POWER
HD	HOT DIPPED GALVANIZED
HWR	HOT WATER RETURN (HYDRONIC)
HWS	HOT WATER SUPPLY (HYDRONIC)
LPG	LOW PRESSURE GAS
MAX	MAXIMUM
MPG	MEDIUM PRESSURE GAS
MTL	METAL
MIN	MINIMUM
(N)	NEW
OC	ON CENTER
OVRD	OVERHEAD
PCW	PROCESS COLD WATER
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PSI	POUNDS PER SQUARE INCH
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RD	ROOF DRAIN
RO	ROOF OVERFLOW
SHT	SHEET
SMS	SHEET METAL SCREW
SOV	SHUT-OFF VALVE
SR	SIDEWALL REGISTER
SD	SMOKE DETECTOR
SPEC	SPECIFICATIONS
SS	SANITARY SEWER
STL	STEEL
(TYP)	TYPICAL
UGND	UNDERGROUND
UIW	UNTREATED INDUSTRIAL WASTE
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT TO ROOF
VD	VOLUME DAMPER (LOCKING)
WCO	WALL (OR ON RISER)CLEAN-OUT
W.C.	WATER COLUMN
WFU	WASTE FIXTURE UNITS

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 CHAPTER 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVEABLE 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 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 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 DIRECTION.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE 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

APPENDIX A: TYPICAL MEP DISTRIBUTION SYSTEM NOTE
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, AND 13.6.8; AND 2022 CBC, SECTION 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 AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13. EACH SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER AND COORDINATED WITH THE STRUCTURAL BUILDING DESIGN.

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

MP ☐ MD ☐ PP ☒ E ☐ - IR 16-13 SECTION 2.1: PROJECT-SPECIFIC DESIGN
MP ☐ MD ☐ PP ☐ E ☐ - IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL
MP ☐ MD ☐ PP ☐ E ☐ - IR 16-13 SECTION 2.2.6 DESIGN BASED ON OSHPD OPM, DEFERRED APPROVAL

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

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M030626
Ren. 6/30/2026
MECHANICAL
STATE OF CALIFORNIA

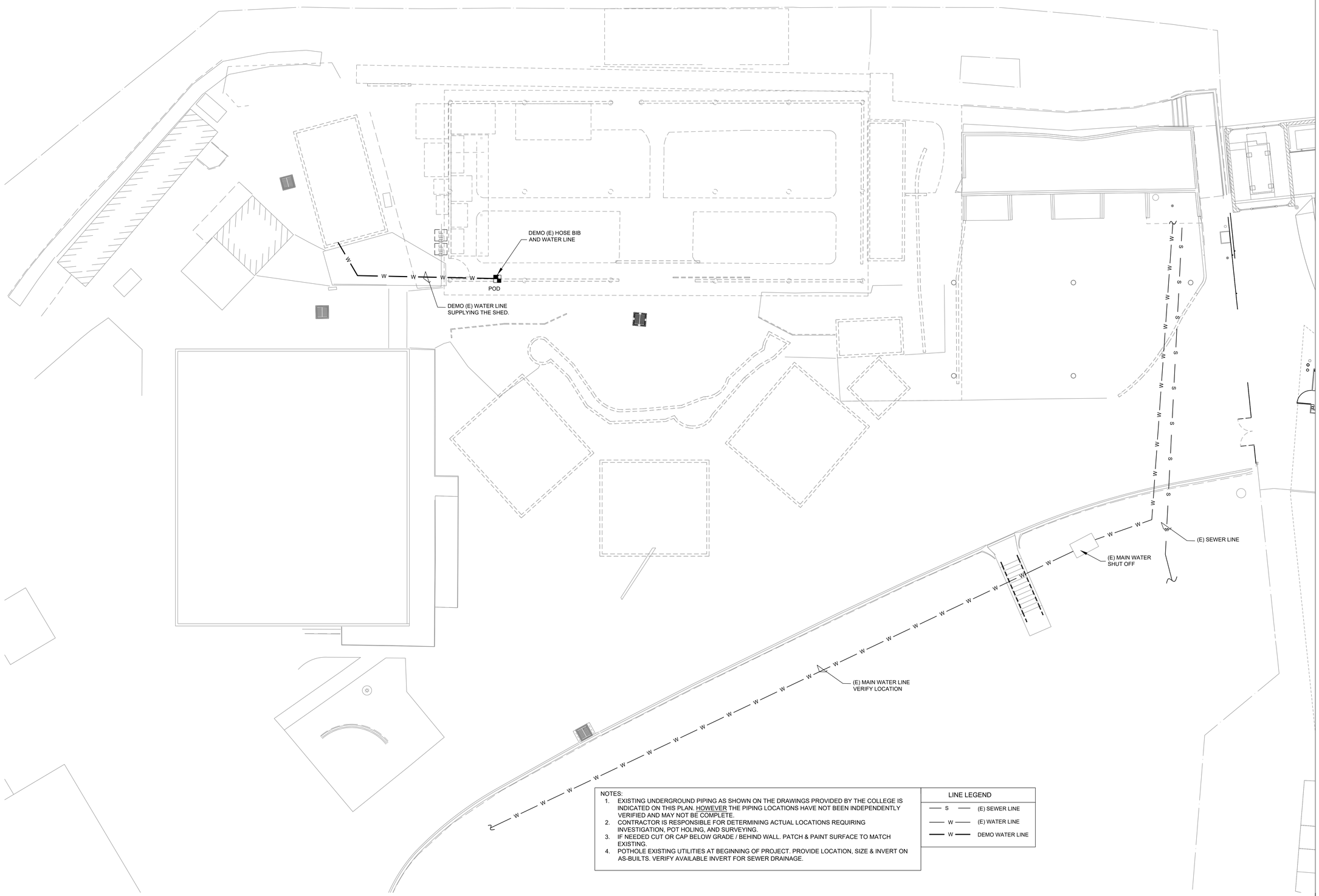
SHEET TITLE:

PLUMBING NOTES & SCHEDULE

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: JS | CHECKED: HM
SHEET NUMBER:

P101

DATE: 03/10/2025 | SHEET: ___ OF ___



NOTES:

1. EXISTING UNDERGROUND PIPING AS SHOWN ON THE DRAWINGS PROVIDED BY THE COLLEGE IS INDICATED ON THIS PLAN. HOWEVER THE PIPING LOCATIONS HAVE NOT BEEN INDEPENDENTLY VERIFIED AND MAY NOT BE COMPLETE.
2. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS REQUIRING INVESTIGATION, POT HOLING, AND SURVEYING.
3. IF NEEDED CUT OR CAP BELOW GRADE / BEHIND WALL. PATCH & PAINT SURFACE TO MATCH EXISTING.
4. POTHOLE EXISTING UTILITIES AT BEGINNING OF PROJECT. PROVIDE LOCATION, SIZE & INVERT ON AS-BUILTS. VERIFY AVAILABLE INVERT FOR SEWER DRAINAGE.

LINE LEGEND

S	(E) SEWER LINE
W	(E) WATER LINE
W	DEMO WATER LINE

1 PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE:

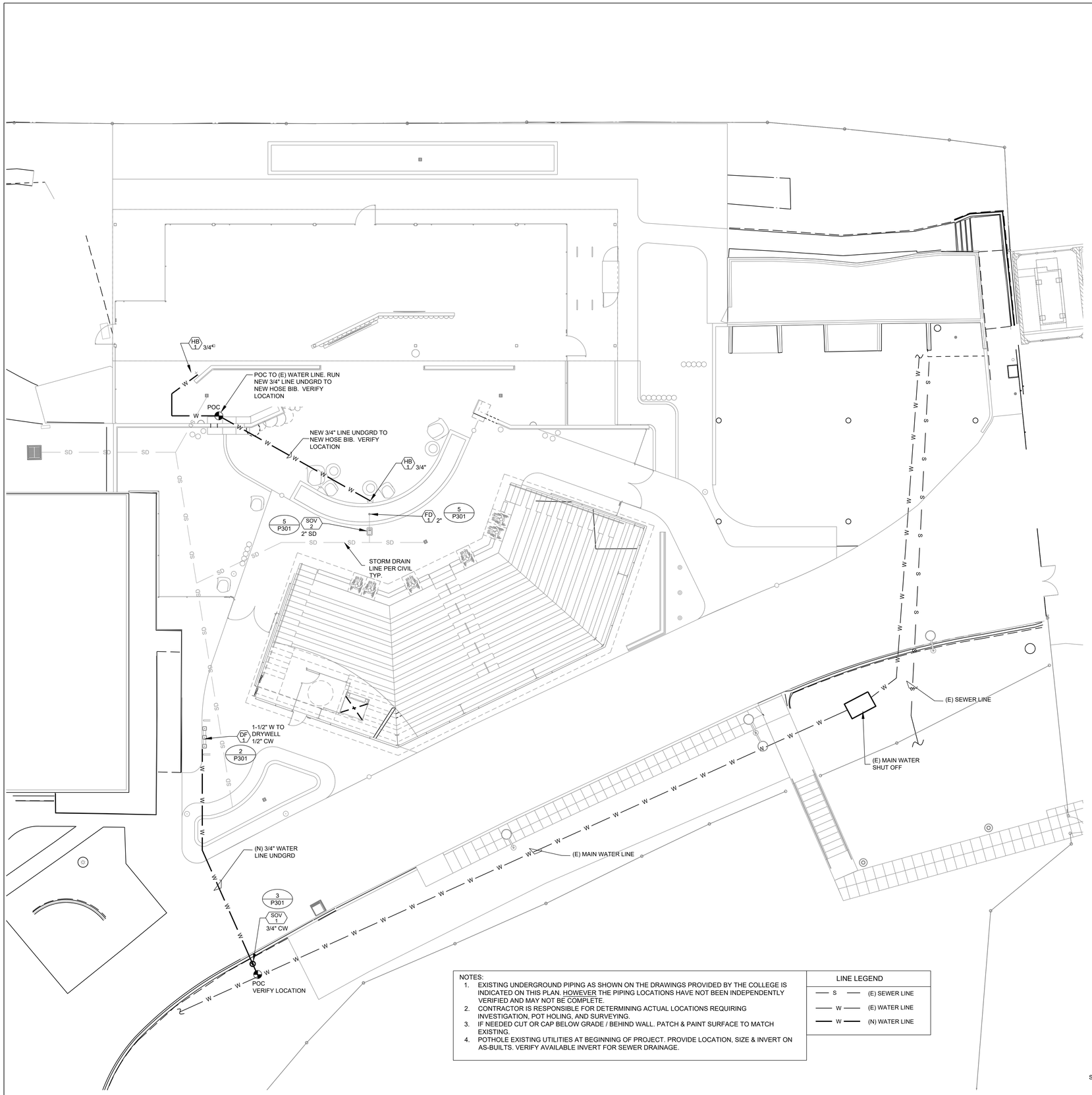
PLUMBING
DEMOLITION
PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: JS	CHECKED: HM

SHEET NUMBER:

P201

DATE: 03/10/2025	SHEET: — OF —



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LINE LEGEND	
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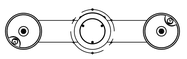
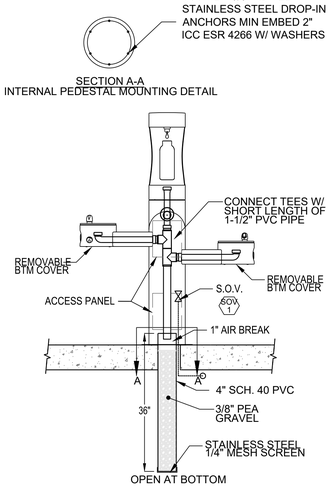
1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"





2 DRINKING FOUNTAIN DETAIL
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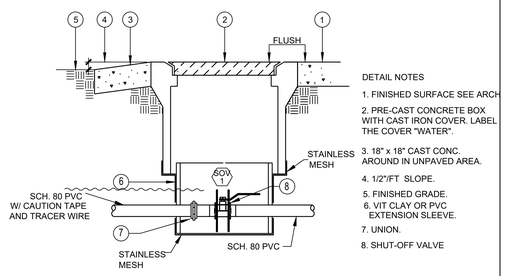
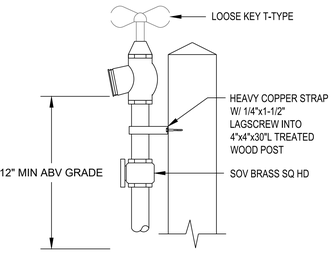
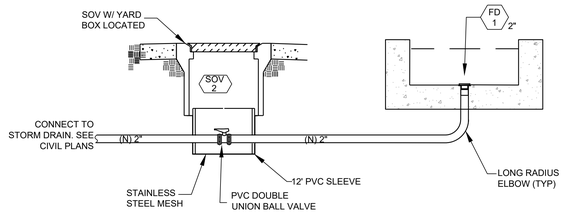


DETAIL NOTES
1. FINISHED SURFACE SEE ARCH
2. PRE-CAST CONCRETE BOX WITH CAST IRON COVER. LABEL THE COVER "WATER".
3. 18" x 18" CAST CONC. AROUND IN UNPAVED AREA.
4. 1/2"/FT SLOPE.
5. FINISHED GRADE.
6. VIT CLAY OR PVC EXTENSION SLEEVE.
7. UNION.
8. SHUT-OFF VALVE

3 WATER SHUT OFF VALVE DETAIL
SCALE: NO SCALE



4 HOSE BIBB DETAIL
SCALE: NO SCALE



5 POND DRAIN DETAIL
SCALE: NO SCALE

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

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PROJECT TITLE AND SCHOOL LOCATION

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REGISTERED PROFESSIONAL ENGINEER HUGH A. MCTERNAN M030626 Ren. 6/30/2026 MECHANICAL STATE OF CALIFORNIA

SHEET TITLE:

PLUMBING PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: JS	CHECKED: HM

SHEET NUMBER:

P301

DATE:	SHEET:
03/10/2025	— OF —

GENERAL NOTES

A. GENERAL

1. SCOPE
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT. ALL ITEMS NOTED ON THE PLAN WHICH ARE NOT EXPLICITLY STATED AS EXISTING SHALL BE NEW.

2. PERMITS AND CHARGES
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

3. REGULATIONS AND CODES
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2022 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

4. VERIFYING EXISTING CONDITIONS
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

5. COORDINATION
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED. SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS. LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID.

6. SERVICE CONTINUITY
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.

7. AS BUILT
PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

8. GUARANTEE
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

9. SHOP DRAWINGS
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL. SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.

10. CONTRACTOR BID
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

B. MATERIAL AND INSTALLATION
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY AN APPROVED TESTING LABORATORY.

1. CONDUITS
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT. ALL CONNECTIONS SHALL BE COMPRESSION & NOT SCREW TYPE.

2. SWITCHES AND RECEPTACLES
PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

3. FEEDERS AND BRANCH CIRCUITS IDENTIFICATION
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.

4. CONDUCTORS
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS) PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED. CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE C INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C) WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a).

5. LIGHTING FIXTURES
PROVIDE LIGHTING FIXTURES WITH ELECTRONIC DRIVERS PER SCHEDULE. NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.

6. PANELBOARDS (BID SQUARE D)
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON-ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME. PROVIDE HINGED PANEL COVERS.

7. STRUCTURAL SUPPORT
EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

8. ELECTRICAL CERTIFICATION
"ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099.

C. DEMOLITION
1. NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

2. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

3. ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

4. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

5. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

6. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

7. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.

8. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

9. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER

10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK

11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

12. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

D. EXECUTION
1. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

2. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

3. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

3. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

4. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

5. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

E. TELEPHONE SYSTEMS
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE TELEPHONE REQUIREMENTS. ALL CAT 6E CABLES SHALL BE TESTED & MEET CURRENT BICSI STANDARDS, A TEST REPORT SIGNED BY A RCCD SHALL BE PROVIDED WITH THE DOCUMENTATION.

F. GROUNDING & BONDING
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

G. INSTALLATION
1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

2. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

3. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

4. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

5. FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

6. DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN..

7. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

8. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

9. ALL RECEPTACLES SHALL BE MOUNTED AT 18" PER ADA REQUIREMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM OF BOX.

10. ALL DISTRIBUTION BOARDS, SWITCHBOARDS AND TRANSFORMERS THAT ARE FLOOR MOUNTED SHALL BE MOUNTED ON 2" THICK HOUSEKEEPING PAD. TRANSFORMER SHALL BE ON VIBRATION ISOLATION PADS AND CONNECTED WITH FLEXIBLE CONDUIT.

11. CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

12. ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY.

13. PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4.

14. PROVIDE 90% COMPACTION OR SAND SLURRY OVER ALL UNDERGROUND CONDUITS, USE ONLY CLEAN FILL.

H. ADDITIONAL NOTES
1. MARKING - UNDERGROUND SYSTEM SHALL BE LEGIBLY MARKED "UNDERGROUND SYSTEM" AT THE SOURCE OR FIRST DISCONNECTING MEANS OF THE SYSTEM. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. (250.21)(C)

2. PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS.

3. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.

4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (210.4)

5. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO THE PARTITION SHALL BE PROVIDED WITH A MEAN TO DISCONNECT SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (605.7)

6. PROVIDE SEPARATE SUBMITTAL; OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND/OR MODIFICATIONS FROM THE FIRE DEPARTMENT.

7. ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.

8. RACEWAY SEALS. CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT EITHER OR BOTH ENDS.

9. ALL 15-20 AMP 120 VOLTS, SINGLE PHASE RECEPTACLES WITHIN KITCHEN AND FOOD PREPARATION AREAS TO BE GFCI PER NEC 210.8.

10. PROVIDE LOCAL DISCONNECTS FOR ALL HARDWIRED EQUIPMENT THAT IS NOT "WITHIN SIGHT" OF THE SOURCE PANEL.

11. MULTIPLE RACEWAYS CONTAINING MORE THAN 3 CURRENT CARRYING CONDUCTORS SHALL COMPLY WITH [2016 CEC, 310.15(B)(2)(A)].

12. THE IDENTIFICATION OF EVERY CIRCUIT OF A PANEL BOARD AND SWITCHBOARD SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE AND SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. 2016 C.E.C 408.4 - PROVIDE MORE DETAIL ON PANEL SCHEDULE CIRCUITS DESCRIPTIONS.

13. A SINGLE RECEPTACLE INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT SHALL HAVE AN AMPERE RATING OF NOT LESS THAN THAT OF THE BRANCH CIRCUIT. INDICATE THE RECEPTACLE RATING. (210.21(B)(1))

14. PROVIDE RECEPTACLE OUTLETS WHEREVER CORD CONNECTED EQUIPMENT WILL BE USED. (210.50(B))

15. WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT DESIGN OR AS A ACCESSORY FEATURE THAT CAN BE INSTALLED ON THE EQUIPMENT. [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION NO. 1, 600.6(A)(2)(3), 620.51(A) EXCEPTION NO. 1, 620.53, 620.55]

16. STANDARD NON-LOCKING STRAIGHT-BLADE RECEPTACLES IN 120- AND 250-VOLT CONFIGURATION AT WET/DAMP LOCATION ARE REQUIRED TO BE LISTED WEATHER-RESISTANT TYPE. [CEC 406.8(A)].

I. FIRE ALARM SYSTEM
1. CONTRACTOR SHALL PROVIDE AND INSTALL A FIRE ALARM SYSTEM FOR THE PROJECT AREA TO INCLUDE:

A) SMOKE DETECTORS IN ALL REQUIRED AREAS
B) HEAT DETECTORS IN ALL REQUIRED AREAS
C) DUCT DETECTORS IN ALL REQUIRED SPACES
D) STROBES/SPEAKERS IN ALL REQUIRED AREAS

FACILITY IS NON SPRINKLERED

2. CONTRACTOR SHALL SUBMIT FOR THE OWNERS SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE ALARM DRAWINGS FOR THE PROJECT SPACE.

3. CONTRACTOR SHALL BE BUILDING STANDARD, EST4.

4. ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHALL APPROVED AND CURRENTLY LISTED.

5. CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS.

6. CONTRACTOR SHALL PROVIDE 6 (SIX) HARD COPY SETS OF FIRE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES IN ADDITION TO 6 (SIX) HARD COPY SETS OF A SYSTEM OPERATIONAL MANUAL TAILORED FOR THE PROJECT SPACE.

7. CONTRACTOR SHALL PROVIDE AN INDIVIDUALLY ADDRESSABLE TOTALLY SUPERVISED SYSTEM WITH BATTERY BACK-UP FOR 24 HOURS OF MONITORING INITIATING CIRCUITS PLUS 30 MINUTES OF ALARM WITH DUAL RATE BATTERY CHARGER.

8. CONTRACTOR SHALL PROVIDE A SATISFACTORY SYSTEM TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION BUREAU AND CONSULTING ENGINEER.

9. CONTRACTOR SHALL PROVIDE A CENTRAL MASTER ANNUNCIATOR PANEL IN THE ELECTRICAL ROOM AND A REMOTE PANEL IN AN AREA PER OWNERS REPRESENTATIVE AND LOCAL FIRE MARSHAL.

10. ANNUNCIATOR PANEL SHALL BE NONGRAPHIC WITH NAMEPLATE AND LED FOR EACH DEVICE ADDRESS, WITH AUDIBLE ALARM AND KEYED SILENCE SWITCH.

11. CONTRACTOR SHALL PROVIDE ALL CONNECTION TO POWER PANELS, CONDUIT AND WIRE AND CONNECTIONS REQUIRED TO PROVIDE AN OPERATIONAL FIRE ALARM SYSTEM.

12. UNIQUELY LABEL ALL ADDRESSABLE DEVICES TO MATCH FIRE ALARM PROGRAMMING & AS BUILTS.

13. FIRE ALARM CONTRACTOR SHALL BE A PREFERRED 'EDWARDS' COMPANY AND SUBMIT QUALS AT BID TIME.

14. PROVIDE FIRE ALARM OPTICAL CABLE (4 STRAND SINGLE MODE) FROM NEW FACP TO LLR EDWARDS FIREWORKS HEAD END UNIT

SYMBOLS

- DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF TO BOTTOM OF DEVICE, NEMA 5-20R U.O.N.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED @ +18"AFF AT BOTTOM OF DEVICE
- (2)DATA OUTLETS, 2 GANG 45D BOX WITH DEVICES AND 4 CAT 6 CABLES FROM JACK TO IDF. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF IF NO CABLE TRAY IS PRESENT.
- (2)DATA OUTLETS, 2 GANG FLOOR BOX WITH DEVICES AND 2 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT.
- J — JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 314
- J — JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 314
- T — TRANSFORMER
- BRANCH CIRCUIT PANELBOARD - 120/208VAC, 3Ø, 4W.
- 4'X8'X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS REPRESENTATIVE.
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS,
- CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND
- 0-10 — LIGHTING CONTROL 0-10V (PURPLE GRAY)
- C5 — LOW VOLTAGE CABLE & CONDUIT 3/4"C-1#CAT5 U.O.N. (PER nLIGHT REQUIREMENTS)
- E — EMERGENCY CIRCUIT
- P — POWER CONDUIT & CONDUCTORS
- FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL EXPOSED AREAS)
- #10 — HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL CONDUITS.)
  WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE #12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE. (3/4" CONDUIT MINIMUM).
- 2LA 1-3-5,7 — INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL.
- 3/4"C-2#12 & 1#12 GND
- 3/4"C-3#12 & 1#12 GND
- 3/4"C-4#12 & 1#12 GND
- 3/4"C-5#12 & 1#12 GND
- #10 3/4"C-2#10 & 1#10 GND
- #10 3/4"C-3#10 & 1#10 GND
- #10 3/4"C-4#10 & 1#10 GND
- #10 3/4"C-5#10 & 1#10 GND

  } 1" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON CIRCUIT HANDLE TIES ON BREAKERS FEEDING THE CIRCUITS)

- 1 — SEE KEY NOTE #1 AS INDICATED ON DRAWING
- $ P — SWITCH WITH PILOT LIGHT @ 42"AFF
- $ 3ab — 3-WAY SWITCH, a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF
- $ — SWITCH MOUNTED @ +42" AFF
- $ M — MOTOR RATED SWITCH
- $ a,b,c,d — CIRCUIT SWITCH LEGS
  WALL SWITCHES
- 60AS, 35AF, 3P — DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U.O.N.
- M — 100A UTILITY METER (OR AS NOTED)
- 3P, 100AS, 60AF — FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE
- 200AF, 150AT, 3P — MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE
- CCTV — CCTV-VER

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
NRCI-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.	art display; storage

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
art display	Videoconferencing Studio	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
storage	Storage - MF common areas	Readily Accessible	Dimmer	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 .

Conditioned 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
art display	Videoconferencing Studio	0.9	1,600	1,440	Yes	No
		TOTALS:	1,600	1,440	See Tables J, or P for detail	

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. 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.

ERAL INFORMATION

01	Project Location (city)	Moorpark	04 Total Conditioned Floor Area (ft²)	2,230
02	Climate Zone	9	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	0

● Classroom ● Theater

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	Area Category Method	2230	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	2230			

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Kenneth Lucci	Documentation Author Signature:
Company: Lucci & Associates	Signature Date: 11-11-2024
Address:	CEA/ HERS Certification Identification (If applicable):
City/State/Zip:	Phone:

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 building provides to the building owner at occupancy.

Responsible Designer Name: Kenneth Lucci	Responsible Designer Signature:
Company: Lucci & Associates	Date Signed: 11-11-2024
Address: 3251 CORTA MALPASO STE 511	License: E 8430
City/State/Zip: CAMARILLO, CA. 930123251 CORTA MALPASO STE 511	Phone: (805) 389-6520

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

All areas indicated in Table I as using an additional allowance using the Area Category Method have been included in this table to calculate the additional allowance per Table 140.6-C /170.2-M

Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Area Description	Primary Function Area	Applicable Qualifying Lighting System from Table 140.6-C	Allowed Density (W/ft² or W/lf or W/unit)	Ltg Area, Length or ATM/Mirror (ft², lf or #)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	Number of Luminaires	Total Design Watts
art display	Videoconferencing Studio	VideoConferencing	1	1600	1600	PL	63	6	378
						PL	63	3	189

Total Design Watts	Calculated Allowance (Watts):	Total Additional Allowance for this area:
567	1600	567
	11	
Total Additional Allowance (Watts) CONDITIONED SPACES		567

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.

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		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)	Adjustments 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		1,440	567		=	2,007	≥ 1,512		=	1512	COMPLIES
Unconditioned					=		≥		=		
								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.

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. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

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.

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: Conditioned 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
RR	Surface mounted LED	No	NA	27	Mfr. Spec	10	No	270	☐	☐
PL	Pendant Lamp	No	NA	63	Mfr. Spec	6	No	378	☐	☐
L1	2 x 4 troffer	No	NA	32	Mfr. Spec	27	No	864	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,512		

[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	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

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APP: 03-124777 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE
7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT
AMADOR
amador whittle architects, inc.
28328 AGOURA RD. 203 | AGOURA HILLS CA. 91301 | 805-558-4334

CONSULTANT
LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
PHONE (805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS



SHEET TITLE:

OUTDOOR TITLE 24
PAGE 1

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E101

DATE: 03/04/25 | SHEET: ___ OF ___

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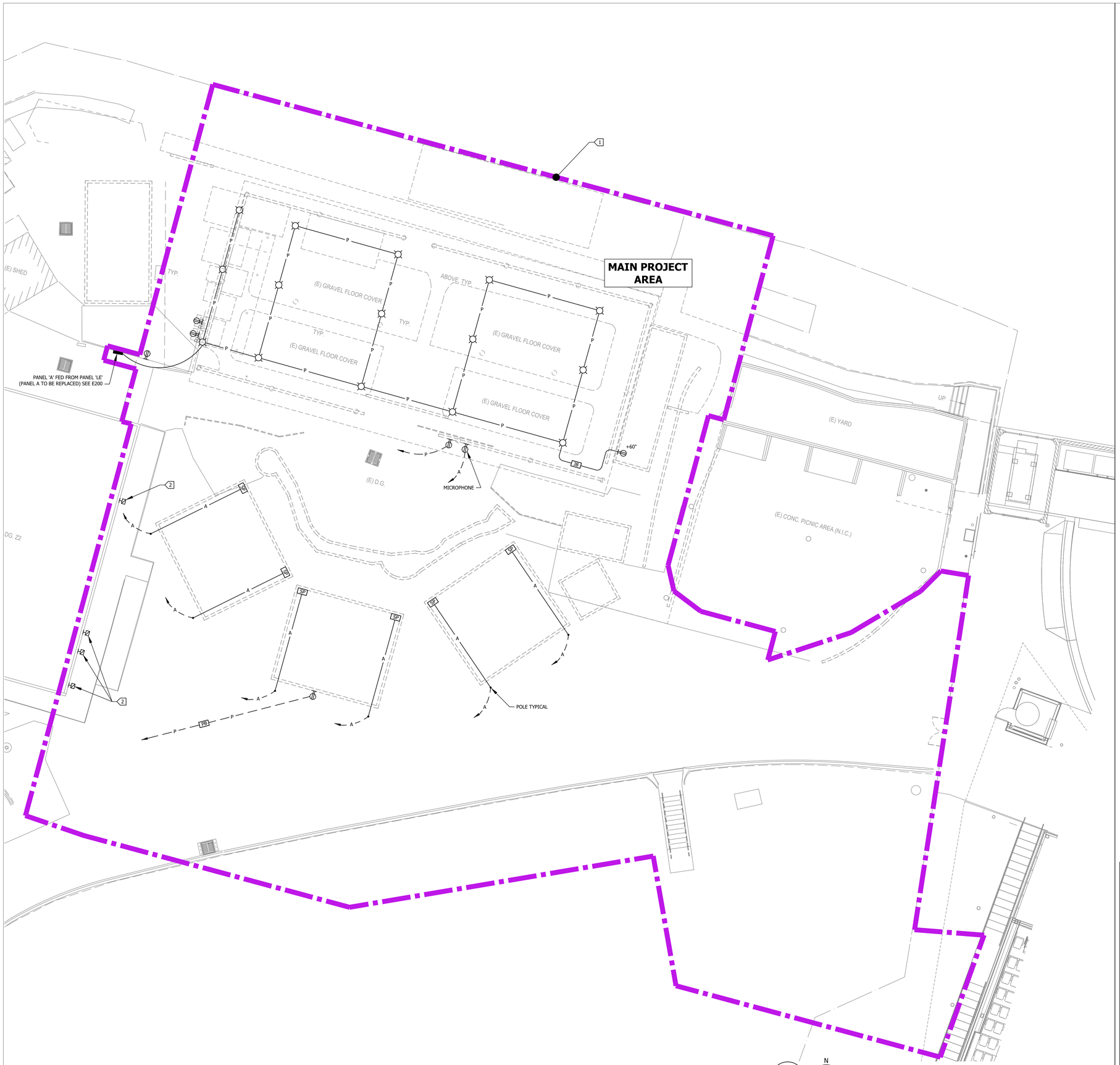


ELECTRICAL SITE DEMOLITION PLAN 1
SCALE: 1/8"=1'-0"

SHEET NOTES:

1. PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. PROVIDE DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT IN THE PROJECT AREA REQUIRED TO COMPLETE THE PROJECT.
3. PREPARE THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
4. DISCONNECT AND RECONNECT ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
5. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
6. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
7. SCHEDULE ALL WORK AND OUTAGES WITH OWNERS WRITTEN APPROVAL.
8. CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

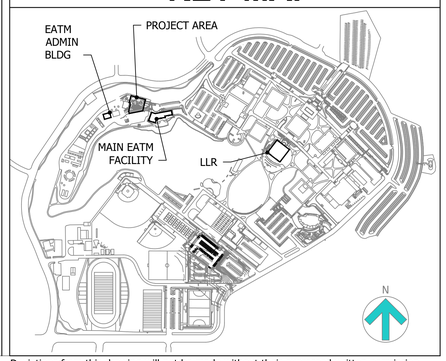
KEY NOTES:

1. REMOVE ALL ELECTRICAL DEVICES (RECEPTACLES, PANELS, LIGHTING, ETC.) TO LAST ACTIVE DEVICE & MAKE SAFE ALL CONNECTIONS. DEVICES POWERED FROM THIS AREA TO ACTIVE EQUIPMENT TO REMAIN ACTIVE. ANY UNDERGROUND CONDUITS CAN REMAIN BUT CONDUCTORS/CABLING TO BE MADE SAFE & REMOVED TO SOURCE. FEEDERS FEEDING THROUGH TO ACTIVE DEVICES SHALL BE MADE TO REMAIN OPERATIONAL.
2. TO BE REPLACED AT SAME LOCATION.

LEGEND

JB	JUNCTION BOX
PB	PULLBOX
SP	SPEAKER MOUNTED @ +14' AFF ON POLE
	WP GFCI RECEPTACLE
HØ	EXISTING WALL MOUNTED LIGHT
	INCANDESCENT LIGHT AT 8'-0" AFF
—A—	AUDIO FEEDER (UNDERGROUND DASHED, ABOVE GROUND SOLID LINE)
—P—	POWER FEEDER UNDER GROUND

KEY MAP



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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
DENNIS T. WU
No. E 20148
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

ELECTRICAL SITE DEMOLITION PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER: E130	
DATE: 03/04/25	SHEET: ___ OF ___

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Plotter: CM01 - G:\24\822\El\Sheets\24-822E130.dwg - DATE: SEP 05, 2024 - TIME: 12:24 PM

LEGEND

P	UNDERGROUND POWER (600 VAC CLASS)
MVP	UNDERGROUND MEDIUM VOLTAGE POWER (4160 VAC)
EM	UNDERGROUND EMERGENCY POWER
C	UNDERGROUND COM
	LIMITS OF CONSTRUCTION
PB	PULLBOX

FOR REFERENCE ONLY -
NO NEW WORK -
VERIFY LOCATION OF ALL UG SYSTEMS
PRIOR TO START OF CONSTRUCTION

MAIN PROJECT AREA

MVP
P
EM
C
PB
(E) CONTAINER
(E) SHED
TYP.
ABOVE, TYP.
REF. REF.
(E) GRAVEL FLOOR COVER
PRESHOW AREA
PANEL A
PRESENTATION AREA (E) D.G.
EXIST. ONE STORY BLDG. ZZ A# 03-40577
(E) YARD
UP
(E) CONC. PICNIC AREA (N.I.C.)
GENSET
(2) 4"C.O. STUBBED OUT 10'
MANHOLE/PULLBOX TYPICAL
(4)4"C
(X) T-14 3'x5' PULL BOX
34:18.088N 118:50.335W AMSL 759'
ENTRY GATE
COM - EXISTING
MAIN ANCT SUBSTATION
RESTROOM & OFFICE TO REMAIN
BLEACHERS
CURB
ANIMAL ENCLOSURE
T-14 3'x5' PULL BOX
34:18.088N 118:50.335W
AMSL 759'
(4) 4" C.O.
(2) 4" C.O. STUBBED OUT 100'
EATM BUILDING
MAIN PROJECT AREA

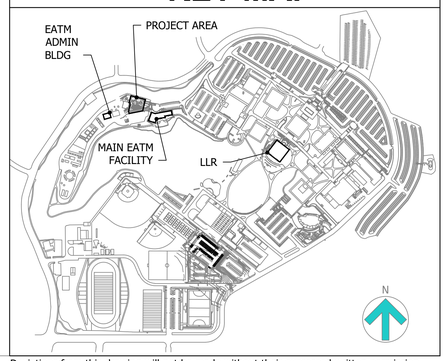
SCALE: 1"=10'
0 10 20

EXISTING UTILITIES
SCALE: 1"=10'-0"

1
E140

N

KEY MAP



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DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
PHONE (805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E-8340
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

SITE
EXISTING UTILITIES - ELECTRICAL

PROJECT NO: 21-MPC-040
PROJECT ARCH:
DRAWN: LK / DS / IT
CHECKED:
SHEET NUMBER:

E140

DATE: 03/04/25
SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

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DRAWING FILENAME: 24-822E140
DRAFTER: CM02
TIME: 8:53 am
DATE: 16 June 2025

Drafter:CM02 - Page Size: 11.0
Date: 6/16/2025 8:53:01 AM
File: 24-822E140.dwg
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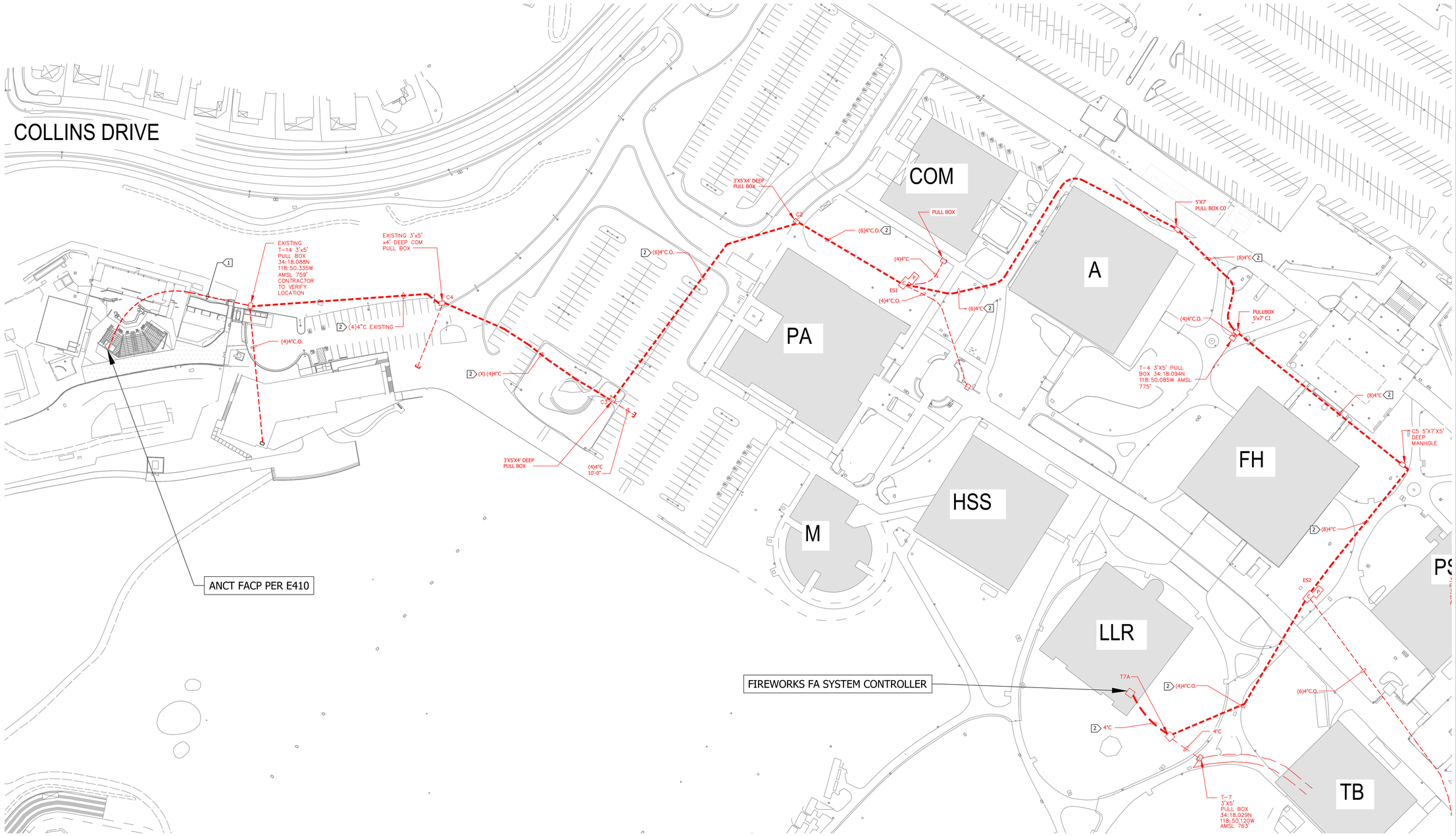
Drafter: CM01 - G:\24\822\ELI\Sheets\24-822E140.dwg - DATE: SEP 05, 2024, TIME: 12:25 PM



KEY NOTES:

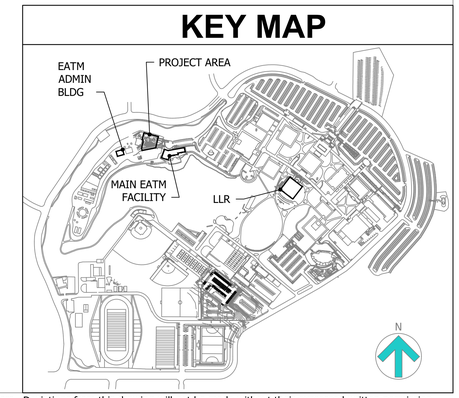
1. NEW 2"C - (2) x4 STRAND SM WET LOCATION OPTICAL FIBER.
2. (2) X4 STRAND SM WET LOCATION OPTICAL FIBER IN EXISTING CONDUIT.

SHEET NOTES:

1. FIELD VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES.

SCALE: 1"=50'
0 50 100

SITE UTILITY PLAN 1
SCALE: 1"=50'-0" - E141



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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER KENNETH M. LUCCI No. E 8348 Exp. 08/30/2026 ELECTRICAL STATE OF CALIFORNIA

SHEET TITLE:

SITE FA CABLING PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER: E141	
DATE: 03/04/25	SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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DRAFTER: CM02 DRAWING FILENAME: 24-822E141 PATHNAME: G:\24\822\EL\Sheets
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Date:6/16/2025 8:53am
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DATE: 16 June 2025 TIME: 8:53 am
PATHNAME: G:\24\822\EL\Sheets
DRAWING FILENAME: 24-822E200
DRAFTER: CM01

EXISTING PANEL TO BE REPLACED WITH NEW

PANEL NUMBER A | VOLTAGE 120/208 | PHASE 3 | WIRE 4
SOURCE LE | A.I.C. 10,000
PANEL LOCATION PER PLAN | BUS AMPERE RATING 100
■ NEMA 3R ■ COPPER BUSS
■ MAIN CIRCUIT BREAKER 100
■ SURFACE MOUNTING

LCL	MISC	RCPT	LITE	CIRCUIT DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	BRKR POLE	BRKR AMP	CKT	PHASE ABC	CKT	BRKR AMP	BRKR POLE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	CIRCUIT DESCRIPTION	MISC	RCPT	LITE	LCL	
				ANIMAL SHELTER LITES	880			1	20	1		2	20		-			HILLSIDE UG BOX TO TORTOISE ENCLOSURE					B
NEW LOAD				ANIMAL SHELTER		520		1	20	3		4		2		-		HILLSIDE UG BOX TO TORTOISE ENCLOSURE					B
				ANIMAL SHELTER			480	1	20	5		6	20	1			-	SPARE ON THIRD					B
				SPARE	-			1	20	7		8	20		-			POLE LIGHT					B
				SPARE		-		1	20	9		10	20			-		REFRIGERATOR					B
				SPARE			-	1	20	11		12	20				500	VIDEO MONITOR					NEW LOAD
B				SPARE TO PULLBOX	-			1	20	13		14	20		-			SPARE TO PULLBOX					B
B				SPARE AT LATH COUNTER		-			20	15		16	20			-		SPARE TO PULLBOX					B
				SPARE			-		20	17		18	20				-	SPARE					
B				LATH LIGHTS WEST	-				20	19		20	20		-			HILLSIDE UG BOX TO AVIARY / SHED					B
B				FRONT STAGE OUTLETS		-			20	21		22	20			-		BUTTERFLY FRII					B
				SPARE			-		20	23		24	20				500	LIGHTING					NEW LOAD
B				VENDING MACHINE	-				20	25		26	20		-			GREENHOUSE					B
B				GREEN HOUSE		-			20	27		28	20			540		RECEPTACLES	3				
				SPARE			-		20	29		30	20				720		4				
B				SPARE AT CENTER	-				20	31		32	20		540				3				
B				LIGHTS WEST		-			20	33		34	20			540			3				
				SPARE			-		20	35		36	20				540		3				NEW LOADS
BACK FED				MAIN	-				100	37		38	20		540				3				
				MAIN		-				39		40	20			360			2				
				MAIN			-	3		41		42	20				540		3				
				TOTALS	880	520	480								1080	1440	2800	TOTALS					

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .

TOTAL VOLT AMPS: 7200 PHASE A 1960 PHASE B 1960 PHASE C 3280

TOTAL AMPS: 20 PHASE A 16 PHASE B 16 PHASE C 27

B EXISTING LOADS TO BE RECONNECTED TO NEW PANEL A

PANEL 'A' SCHEDULE (EXISTING - TO BE REPLACED WITH NEW PANEL AT SAME LOCATION) 3

SCALE: NONE — REUSE EXISTING FEEDER - E200 -

NEW PANEL

PANEL NUMBER LBL | VOLTAGE 120/208 | PHASE 3 | WIRE 4
SOURCE LA | A.I.C. 10,000
PANEL LOCATION PER E400 / E140 | BUS AMPERE RATING 225
■ NEMA 3R ■ COPPER BUSS
■ MAIN CIRCUIT BREAKER 225
■ SURFACE MOUNTING

LCL	MISC	RCPT	LITE	CIRCUIT DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	BRKR POLE	BRKR AMP	CKT	PHASE ABC	CKT	BRKR AMP	BRKR POLE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	CIRCUIT DESCRIPTION	MISC	RCPT	LITE	LCL	
				BLEACHER LIGHTING	900			1	20	1		2	1	20	560			SITE POLE LIGHTING					
				BLEACHER LITES		900		1	20	3		4				560		SITE LIGHTING					
				SITE EGRESS LIGHTING			500			5		6					500	PRESENTATION AREA LIGHT					
				SIGNAGE	200					7		8			500			PRESENTATION AREA LIGHT					
				FLOOD WEST		200				9		10				500		PRESENTATION LIGHT					
				FLOOD CENTER			200			11		12					200	BOOTH/ELEC				3	
				FLOOD EAST	200					13		14			-			SPARE					
				ENTRY LITES		420				15		16				-		SPARE					
				BLEACHER EXT			550			17		18					540	RECEPTACLE BOOTH					
				FAN 1 & 2	600					19		20			540			RECEPTACLE BOOTH					
				FAN 3 & 4		600				21		22				540		RECEPTACLE BOOTH					
				IDF			500			23		24					540	RECEPTACLE ELEC					
				IDF	500					25		26			540			RECEPTACLE					
				RECEPTACLE A/V		540				27		28				540		RECEPTACLE					
				RECEPTACLE A/V			540			29		30					1400	SPECIAL COOLER IDF/FA					
				RECEPTACLE A/V	540					31		32			200			IDF					
				SPARE		-				33		34				100		EXIT SIGNS					LOCK ON
				LIFT POWER			1200			35		36					200	FACP					A
				RECEPTACLE	360					37		38	100			-		SPARE					
				LANDSCAPE CONTROLLER		100				39		40				-		SPARE					
				LCP PANEL			200			41		42		3		-		SPARE					
				TOTALS	3300	2760	3690								2340	2240	3380	TOTALS					

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .

TOTAL VOLT AMPS: 17710 PHASE A 5640 PHASE B 5000 PHASE C 7070

TOTAL AMPS: 49 PHASE A 47 PHASE B 42 PHASE C 59

KEY NOTE:

A DEDICATED RED BREAKER WITH LOCK ON DEVICE

PANEL 'LBL' SCHEDULE 2

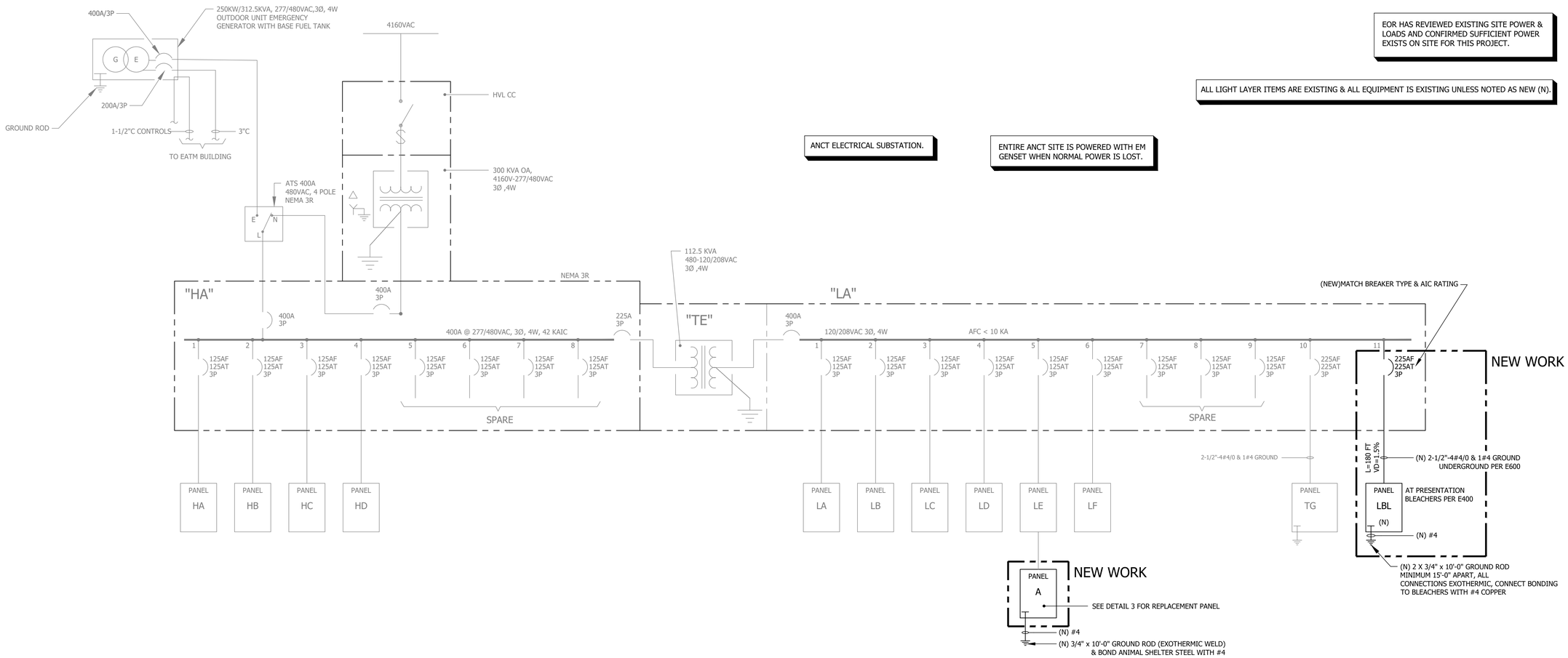
SCALE: NONE — - E200 -

EOR HAS REVIEWED EXISTING SITE POWER & LOADS AND CONFIRMED SUFFICIENT POWER EXISTS ON SITE FOR THIS PROJECT.

ALL LIGHT LAYER ITEMS ARE EXISTING & ALL EQUIPMENT IS EXISTING UNLESS NOTED AS NEW (N).

ANCT ELECTRICAL SUBSTATION.

ENTIRE ANCT SITE IS POWERED WITH EM GENSET WHEN NORMAL POWER IS LOST.



ELECTRICAL SINGLE LINE 1

SCALE: NONE — - E200 -

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — KENNETH M. LUCCI — No. E 8348 — Exp. 09/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

SHEET TITLE:

ELECTRICAL SINGLE DIAGRAM & PANEL SCHEDULES

PROJECT NO.: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER: **E200**	
DATE: 03/04/25	SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

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FRESCO CONTROLS - CONTRACTOR PROVIDED AND INSTALLED/PROGRAMMED - INSTALLED IN BOOTH

OVERVIEW

Fresco is an integrated touchscreen lighting control solution for dynamic spaces such as hotel ballrooms, conference rooms, museums, retail stores, houses of worship and restaurants. Fresco's thin profile and clean design enhances many commercial settings. Its glass-to-the-edge refinement and aluminum frame are a robust and modern improvement to architectural lighting control. Fresco delivers seamless control of traditional line-voltage dimming, switching, 0-10 V, DALI, nLight® and DMX for RGB and tunable white fixtures.

FEATURES

- On screen lighting design and setup, no computer required
- Lighting Control: forward and reverse phase dimming, 0-10 V, DMX (RGB/Tunable White), nLight® enabled luminaires (including nTune™), nLight power packs, and DALI
- 72 individual channels and 36 scenes to control lighting intensity, color and color temperature
- 65,000 zones per Fresco network
- Integral astronomic timeclock and on screen scheduling
- Direct DMX512 fixture control for single universe (optional)
- Automatic wake-up with proximity sensor
- Ethernet connection for remote configuration and control
- Integral Bluetooth® radio for wireless App control
- Partition status control for up to 24 rooms (Roomlink)
- Digital motion sensor, daylight harvesting, RS-232, contact closure and wallstation input from nLight devices
- Compatible with Fresco LMP dimming and switching cabinets (requires DMX option)
- Shade control integration capable (Lutron QS, Somfy, and MechoShade IQ)
- All device settings are stored on-board in non-volatile memory
- Integrates with Building Management Systems (BMS) through BACnet/IP

Government Procurement
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information

Warranty
Two-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

AcuityControls™

Fresco™

FCS Architectural Lighting Control



Fresco Greeting Screen (7" diagonal viewing area)



Fresco Homescreen

BAA BABA

ORDERING INFORMATION

FCS					Example: FCS 7TSN X DBL
FCS		**7TSN**		**Finish**	
Series		**Model**	**Options**		
FCS	Fresco Control System	7TSN 7" touchscreen with nLight port	[blank] nLight only X DMX/RDM control	DBL Black DWH White DNA Natural Aluminum	

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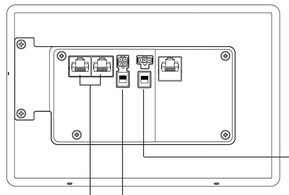
SYSTEM CAPABILITY



DMX512-A/RDM
Controls up to one universe of DMX512-A compatible devices, including those that support RDM configuration. Supported fixture types include RGB and dynamic white. A complete list of compatible luminaires is available from Acuity Controls inside sales and support teams. Also used to connect and control up to 32 Fresco Lighting Management Panels.

Fresco Control Network (FCN)
Extend the network by adding additional Fresco touchscreens and integration devices such as the Fresco AVI for AV and shade control.

nLight®(in/out)
Connect up to 128 nLight devices including nLight-enabled luminaires, nPODMs, nPOD GFX, power packs, occupancy sensors, daylight sensors, nIO devices, and nLight ARP Panels. Two nLight ports each provide 40mA power and communication. Fresco directly configures and manages the nLight devices and does not support nECY/nGWY2 (Controller), nBRG (Bridge) , nPWDMX SNAPSHOT, or SensorView™ Software.

SYSTEM NOTES
- Fresco controls 1 universe of DMX/RDM devices
- Fresco controls 1 zone of nLight with 128 global channels of control
- Fresco touchscreens are connected via the Fresco Control Network
- Fresco Lighting Management Panels use the DMX network for communication

LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
L1 -		83	LED ROUND HIGH BAY - (WT 5LBS)	LED	BOLTED TO STRUCTURE	LITHONIA LIGHTING CPRB-AL013 UVOLT SWW99 80CRI DWH *	DIMMED VIA LCP WITH SAFETY CABLE
L2 -		19	AREA FLOOD (WT= 10.0LBS)	LED	7'-6" AREA WALL MOUNTED	LITHONIA LIGHTING DSXW1-10C-350-40K-T3M-PIR-PE-MVOLT-DWHXD	-
L3 -		15	AREA FLOOD (WT= 13.5LBS)	LED	SURFACE TO EXISTING COLUMNS J-BOX	LITHONIA LIGHTING WDGE2 LED P2T3M 40K 80CRI VW MOLT SRM BRZ PIR	BOLT TO COLUMN ON BOX
L4 -		38	POLE LIGHT FIXTURE WITH 14 FT OVERALL HEIGHT - (WT= 38LBS)	LED	1' POLE SEE (6 E600)	LITHONIA LIGHTING RADPT LED-P2-4K-PATH MVOLT PT4 RSA 14FT 4C PT WITH 14FT POLE (OVERALL HEIGHT)	E300C
-							
L6 -		25	STEP LIGHT	LED	SURFACE	KENALL MS11 EL-PP-DB-10L35-DV	SURFACE ADAPTER
L7 -		120	20 FOOT TALL POLE HEIGHT (OVERALL)	LED	3' POLE BASE (6 E600)	LITHONIA DSX1-LED-P2-40K-T3M-MVOLT-RPA-PIRH-DDBXD	WITH POLE BASE & POLE PER E600
L8 -		197	AREA FLOOD	LED	SURFACE	BEGA #B84553-VRY	DIMMED
L9 -		18	SIGN UPLIGHT	LED	AT GRADE	HYDREL PINE P2-35K-MVOLT-35DCG-FLC-KM-JBA-L2-C3-BL-VET	EXTEND 18" AFG TO TOP OF HEAD
S1 -		42	CONTRACTOR SELECT LED VAPOR TITE, 48" 5000LM, 120-277V, 35K, 80CRI (QTY 2)	LED	MOUNT TO STRUCTURE	LITHONIA CSVT L48 5000 MV 80CRI STSL	0-10 DIMMED
OF -		35	AREA FLOOD, 40K, WITH OCCUPANCY SENSOR & PHOTOCELL	LED	WALL @ 7'-6" AFG	LITHONIA DSX W1 LED 10C 350 40K T3M MVOLT BBW PIR1F3V E 20WC DNATXD	EMERGENCY
Z -		-	EXIT SIGN OUTDOOR RATED	LED	SURFACE	LITHONIA LQMSW3G MOLT 2 SOURCE ELAWG1	EMERGENCY EXTERIOR RATED

*CPRBSMB SURFACE MOUNT GALVANIZED BRACKET

ORDERING INFORMATION

nLight RELAY PANEL						Example: ARP INTENC08 NLT 8FCR MVOLT SC SM
Panel Size		**Relay Quantity**				**Operating Voltage**
ARP INTENC08 NLT	8-Relay Enclosure	4FCR[1]	4-Field Configurable Relays	16FCR[3]	16-Field Configurable Relays	MVOLT 120-277VAC
ARP INTENC16 NLT	16-Relay Enclosure	8FCR[1]	8-Field Configurable Relays	24FCR[3]	24-Field Configurable Relays	CNDV 120-277, 347VAC
ARP INTENC32 NLT	32-Relay Enclosure	12FCR[2]	12-Field Configurable Relays	32FCR[3]	32-Field Configurable Relays	
ARP INTENC48 NLT	48-Relay Enclosure			48FCR[4]	48-Field Configurable Relays	

Voltage Barrier		**Door Type**		**Mounting**		**Clock Option**	
[blank]	No barriers	SC	Screw Cover	SM[6]	Surface Mount	[blank]	No Clock
1VB	1 Voltage Barrier	HLK[5]	Hinge Locking	FM	Flush Mount	DTC	Digital Time Clock
2VB	2 Voltage Barriers						
3VB[1]	3 Voltage Barriers						
4VB[1]	4 Voltage Barriers						

NOTE: If desired, panel enclosure and interior components can be ordered separately (typically for panel enclosure rough-in prior to final wiring and system programming). Contact your Acuity representative for ordering tree information.

1. Only available in 8-Relay Enclosure.
2. Only available in 16-Relay Enclosure.
3. Only available in 32-Relay Enclosure.
4. Only available in 48-Relay Enclosure.
5. Only available in 32 or 48-Relay Enclosure Options.
6. 32/48 Enclosures only available in hinge locking surface mount.

Photosensor Accessories: *Order as separate catalog number.*

Series	Description	Recommended Application
ARPA PC	Simple switching (at ~1-3fc) with mechanically adjustable slide	Outdoor dusk to dawn, On/Off only
ARPA APS OL	Analog sensor (0-100FC) with switching/dimming thresholds remotely adjustable (via SensorView)	Outdoor dusk to dawn lighting, On/Off or On/Off/Dimming (where necessary)

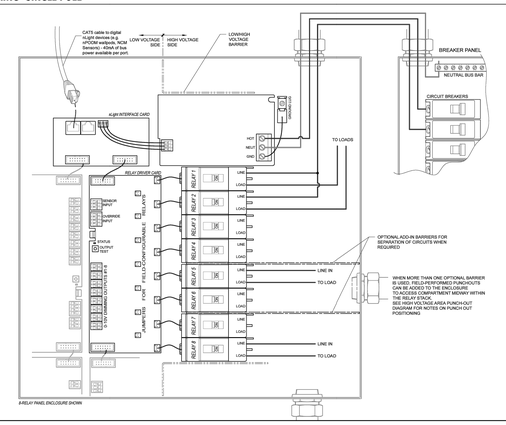
Additional Accessories: *Order as separate catalog number.*

Series	Description
ARP DTC BRKT	Hardware to field install nDTC into nLight relay panel (ARP), nDTC ordered separately
ARP FCR CONFIG HARDWARE BAG	Extra set of hardware to create 2 and 3-pole relays in the field (2x 2-pole relays, 1x 3-pole relay)
ARPA FCR40	Replacement FCR40 Relay
ARP BARRIER REPLACEMENT KIT	Additional voltage barrier for 4/8/12/16 relay panels
ARP32-48 VOLTAGE BARRIER	Additional voltage barrier for 24/32/48 relay panels

16-Relay Enclosure



WIRING - SINGLE-POLE



CONTRACTOR TO PROVIDE, INSTALL, & PROGRAM RELAY PANEL. INSTALLED ADJACENT TO PANEL LBL, INSTALL IN HOFFMAN ENCLOSURE.

Catalog Number: | Date: | Project:

OVERVIEW

The nLight Relay Panel family delivers cost-effective 0-10V dimming and switching for your building design needs. The panel communicates with an nLight network and supports up to 128 digital devices per nLight control zone. Offering a full range of panel sizes, the nLight Relay Panel is ideal for spaces that require full circuit control, with the optional flexibility of configuring single pole relays into a two or three-pole relays in the field.

Also included on each panel is a programmable input that can be connected to a photocell, for example, and a separate dry contact "alarm" input that overrides all relays until the contact is released.

nLIGHT OPERATION

The nLight Relay Panel is nLight-enabled, meaning it has the ability to communicate over an nLight network. When daisy-chain wired with other nLight-enabled sensors, power packs, or WallPods™ using CAT-5e cabling, an nLight control zone is created. Connecting the panel to an nLight network backbone and nLight® ECLYPSE™ system controller enables time-based control, remote programming and monitoring from SensorView™ software, and BMS integration capabilities.

The digital time clock (DTC) option allows for on-screen configuration and control of connected devices, while introducing scheduling to standalone panel. When connected to nLight backbone and nLight ECLYPSE system controllers the panels relinquish all time clock functionality.

FEATURES

- Communicates with an nLight network
- Up to 128 digital devices per nLight control zone - each nLight Relay Panel utilizes 9 device addresses per 8 relays/dimming outputs:
  - 1 address per relay/dimming output
  - 1 address for the programmable input
- All relays include local manual override lever
- All relays are individually programmable
- One 0-10V dimming output per relay
- Create and control up to 32 schedules – Normal & Holiday (DTC version)
- Astronomical Timeclock feature enables +/- Sunset or Sunrise settings and programmable Latitude/ Longitude (DTC version)
- Programmable "dry contact/pull high" input (with provided 24VDC source)
  - Input is programmable to preset/profile scene, photosensor signal, wallpod toggle (maintain or momentary)
- Contact input for "alarm" override (requires maintain contact signal)
- All relays communicate with switch/occupancy/photocell channel 1 out of the box (programmable through SensorView)
- FCR type relays capable of being field configured to 2 and 3-pole relay configurations with included hardware:
  - 4/8 Relay Panel: 2x2-Pole and 1x3-Pole Hardware Included
  - 12/16 Relay Panel: 4x2-Pole and 2x3-Pole Hardware Included
  - 24/32/48 Relay Panel: 6x2-Pole and 3x3-Pole Hardware Included
- Supplies auxiliary 24VDC power and nLight network bus power (40mA per RJ45 port)
- Removable back plate for ease of installation
- UL 924 panel listing for Switching Emergency Circuits
- Optional field installed voltage barrier(s) for normal/emergency use, or mixed voltage use
- Remotely Configurable/Upgradeable
- Programmable return to last state capability

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

nLIGHT

Relay Panel



Buy American Act
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.

Build America Buy America
Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act

Please refer to www.acuitybrands.com/resources/ buy-american for additional information.

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IDENTIFICATION STAMP
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APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
28328 AGOURA RD. 203 | AGOURA HILLS CA. 91301 | 805-558-4334

CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — No. E 23149 — Exp. 08/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

SHEET TITLE:

LIGHTING FIXTURE SCHEDULE

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E300

DATE: 03/04/25 | SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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Drafter: CM02 Paper Size: 11.0 Scale: 1/4"=1'-0" Date: 06/16/2025 08:53:30 am
XREF'D: G:\24\822\ELI\Sheets\24-822E300.dwg

Drafter: CM01; G:\24\822\ELI\Sheets\24-822E300.dwg; DATE: SEP. 09, 2024 TIME: 12:06 PM

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D-Series Size 1
LED Area Luminaire

Catalog Number: DSX1-LED-P2-40K-T3M-MVOLT-RPA-PIRH-DDBXD

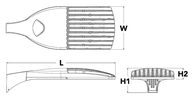
Notes

Type: L7

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	1.01 ft² (0.09 m²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P4 P7 P2 P5 P8 P3 P6 P9 **Rotated optics** P10¹ P12¹ P11¹ P13¹	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T3LG Type III short with low glare shield T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control ² LCCO Left corner cutoff ² MVOLT ³ 120 ⁴ 208 ⁴ 240 ⁴ 277 ⁴ 347 ⁴ 480 ⁴ **Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁵ RPUMBA Round pole universal mounting adaptor ⁵ **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁶

Control options		Other options		Finish (required)
Shipped installed		**Shipped installed**		DDBXD Dark bronze
NLTAIR2 nLight AIR generation 2 enabled ⁷	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 3fc ⁸˒⁹	HS House-side shield ¹⁰		DBLBD Black
PIRHN Network, high/low motion/ambient sensor ⁸	PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3fc ⁸˒⁹	SF Single fuse (120, 277, 347V) ¹¹˒¹²		DNAXD Natural aluminum
PER NEMA twist-lock receptacle only (controls ordered separate) ¹³	PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ⁸˒⁹	DF Double fuse (208, 240, 480V) ¹¹˒¹²		DWHXD White
PERS Five-pin receptacle only (controls ordered separate) ¹³	PIR1FC1V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁸˒⁹	L90 Left rotated optics ¹		DSTXD Textured dark bronze
PER7 Seven-pin receptacle only (controls ordered separate) ¹³	FAO Field adjustable output ¹⁴	R90 Right rotated optics ¹		DBLBXD Textured black
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁵		**Shipped separately**		DNATXD Textured natural aluminum
DS Dual switching ¹²˒¹⁶		BS Bird spikes ¹⁶		DWHGXD Textured white
		EGS External glare shield		

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	32°F 1.02
10°C	50°F 1.01
25°C	68°F 1.00
25°C	**77°F 1.00**
30°C	86°F 1.00
40°C	104°F 0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000 platform in a 25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A) 120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	24 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	74 W	0.69	0.40	0.35	0.30	0.23	0.17

Motion Sensor Default Settings

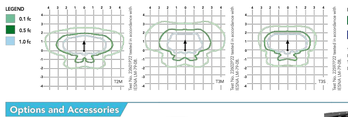
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 3FC	5 min	3 sec	5 min

*For use when motion sensor is used as dusk to dawn control

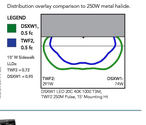
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

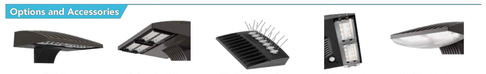
Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide.



Options and Accessories



T3M (left) HS - House-side shields BSW - Bird-deterrent spikes VG - Vandal guard DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

ENTENDED USE
The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION
Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building-mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL
Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L86/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor of >90%, THD <20% and an expected 100kA surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION
Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket weeway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS
CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN
This product is assembled in the USA and meets the Buy American® government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY
Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



D-Series Size 1
LED Wall Luminaire

Catalog Number: DSXW1-10C-350-40K-T3M-MVOLT-PE-PIR-DWHXD

Notes

Type: L2

Hit the Tab key or mouse over the page to see all interactive elements.

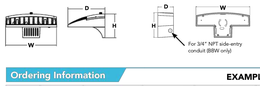
Specifications

Luminaire

Width: 13-3/4" (34.9 cm) Weight: 12 lbs (5.4 kg)
Depth: 10" (25.4 cm)
Height: 6-3/8" (16.2 cm)

Back Box (BBW, E20WC)

Width: 13-3/4" (34.9 cm) BBW Weight: 5 lbs (2.3 kg)
Depth: 4" (10.2 cm) E20WC Weight: 10 lbs (4.5 kg)
Height: 6-3/8" (16.2 cm)



Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines)	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) ¹	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT ² 120 ³ 208 ³ 240 ³ 277 ³ 347 ³˒⁴ 480 ³˒⁴	**Shipped included** (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) ⁵ **Shipped separately** PE Photoelectric cell, button type ⁶ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15 ft mtg ht ⁷˒⁸ PIRH 180° motion/ambient light sensor, 15-30 ft mtg ht ⁷˒⁸ PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 3fc ⁷˒⁸ PIR1FC1V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁷˒⁸ E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant ⁹˒¹⁰

Other Options	Finish (required)
Shipped installed SF Single fuse (120, 277 or 347V) ³˒⁴˒¹¹ DF Double fuse (208, 240 or 480V) ³˒⁴˒¹¹ HS House-side shield ¹² SPD Separate surge protection ¹³	**Shipped separately** ¹⁴ BSW Bird-deterrent spikes VG Vandal guard DDL Diffused drop lens	DDBXD Dark bronze DBLBD Black DNAXD Natural aluminum DWHXD White DSTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum	DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum	DWHGXD Textured white DSSTXD Textured sandstone

Accessories

DSXW1 U House-side shield (one per light engine)
DSXWBSW U Bird-deterrent spikes
DSXWTRU U Vandal guard accessory

NOTES
1. 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
3. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
4. Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
5. Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
6. Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
7. Reference Motion Sensor table on page 3.
8. Same as old ELCW. Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency components not available with PIR or PIRH.
9. Not available with SPD.
10. Not available with E20WC.
11. Also available as a separate accessory; see Accessories information.
12. Not available with E20WC.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Type	3000K (70 CRI) Lumens	B	U	G	4000K (70 CRI) Lumens	B	U	G	5000K (70 CRI) Lumens	B	U	G	Amber (PC) Lumens	B	U	G
10C (10 LEDs)	350mA	13W	T2S	1,415	0	0	1	1,509	0	0	1	1,517	0	0	1	1,518	0	0	1
			T2M	1,349	0	0	1	1,384	0	0	1	1,411	0	0	1	1,458	0	0	1
			T3S	1,398	0	0	1	1,491	0	0	1	1,498	0	0	1	1,513	0	0	1
			T3M	1,385	0	0	1	1,477	0	0	1	1,488	0	0	1	1,497	0	0	1
			T4M	1,357	0	0	1	1,396	0	0	1	1,408	0	0	1	1,467	0	0	1
			TFTM	1,411	0	0	1	1,509	0	0	1	1,515	0	0	1	1,535	0	0	1
	530mA	19W	T2S	2,053	1	0	1	2,188	1	0	1	2,200	1	0	1	2,220	1	0	1
			T2M	1,957	1	0	1	2,102	1	0	1	2,115	1	0	1	2,175	1	0	1
			T3S	2,031	1	0	1	2,181	1	0	1	2,194	1	0	1	2,256	1	0	1
			T3M	2,010	1	0	1	2,159	1	0	1	2,172	1	0	1	2,232	1	0	1
			T4M	1,970	1	0	1	2,115	1	0	1	2,126	1	0	1	2,174	1	0	1
			TFTM	2,047	1	0	1	2,198	1	0	1	2,212	1	0	1	2,260	1	0	1
	700 mA	26W	T2S	2,623	1	0	1	2,816	1	0	1	2,834	1	0	1	2,859	1	0	1
			T2M	2,499	1	0	1	2,684	1	0	1	2,701	1	0	1	2,777	1	0	1
			T3S	2,595	1	0	1	2,786	1	0	1	2,803	1	0	1	2,880	1	0	1
			T3M	2,567	1	0	1	2,757	1	0	1	2,774	1	0	1	2,851	1	0	1
			T4M	2,518	1	0	1	2,705	1	0	1	2,721	1	0	1	2,796	1	0	1
			TFTM	2,614	1	0	1	2,808	1	0	1	2,825	1	0	1	2,903	1	0	1
	1000 mA	39W	T2S	3,695	1	0	1	3,957	1	0	1	3,981	1	0	1	4,016	1	0	1
			T2M	3,512	1	0	1	3,771	1	0	1	3,794	1	0	1	3,901	1	0	1
			T3S	3,644	1	0	1	3,913	1	0	1	3,936	1	0	1	4,045	1	0	1
			T3M	3,601	1	0	1	3,873	1	0	1	3,898	1	0	1	4,007	1	0	1
			T4M	3,534	1	0	2	3,796	1	0	2	3,819	1	0	2	3,925	1	0	2
			TFTM	3,673	1	0	1	3,945	1	0	1	3,969	1	0	1	4,079	1	0	1
20C (20 LEDs)	350mA	23W	T2S	2,826	1	0	1	3,038	1	0	1	3,062	1	0	1	3,147	1	0	1
			T2M	2,698	1	0	1	2,886	1	0	1	2,904	1	0	1	2,984	1	0	1
			T3S	2,799	1	0	1	3,006	1	0	1	3,030	1	0	1	3,114	1	0	1
			T3M	2,767	1	0	1	2,965	1	0	1	2,985	1	0	1	3,067	1	0	1
			T4M	2,716	1	0	1	2,905	1	0	1	2,926	1	0	1	3,007	1	0	1
			TFTM	2,811	1	0	1	3,019	1	0	1	3,041	1	0	1	3,124	1	0	1
	530 mA	35W	T2S	4,079	1	0	1	4,380	1	0	1	4,414	1	0	1	4,535	1	0	1
			T2M	3,887	1	0	1	4,174	1	0	1	4,207	1	0	1	4,324	1	0	1
			T3S	4,033	1	0	1	4,331	1	0	1	4,364	1	0	1	4,484	1	0	1
			T3M	3,991	1	0	2	4,288	1	0	2	4,321	1	0	2	4,440	1	0	2
			T4M	3,912	1	0	2	4,203	1	0	2	4,237	1	0	2	4,354	1	0	2
			TFTM	4,066	1	0	2	4,366	1	0	2	4,399	1	0	2	4,520	1	0	2
	700 mA	46W	T2S	5,188	1	0	1	5,572	1	0	1	5,615	1	0	1	5,770	1	0	1
			T2M	4,945	1	0	2	5,309	1	0	2	5,350	1	0	2	5,498	1	0	2
			T3S	5,131	1	0	2	5,510	1	0	2	5,552	1	0	2	5,704	1	0	2
			T3M	5,078	1	0	2	5,454	1	0	2	5,496	1	0	2	5,648	1	0	2
			T4M	4,975	1	0	2	5,343	1	0	2	5,384	1	0	2	5,533	1	0	2
			TFTM	5,173	1	0	2	5,554	1	0	2	5,597	1	0	2	5,749	1	0	2
	1000 mA	73W	T2S	7,264	1	0	2	7,736	2	0	2	7,796	2	0	2	8,007	2	0	2
			T2M	6,863	1	0	2	7,373	2	0	2	7,430	2	0	2	7,634	2	0	2
			T3S	7,125	1	0	2	7,651	2	0	2	7,710	2	0	2	7,920	2	0	2
			T3M	7,052	1	0	2	7,573	2	0	2	7,632	2	0	2	7,842	2	0	2
			T4M	6,909	1	0	2	7,420	2	0	2	7,478	2	0	2	7,684	2	0	2
			TFTM	7,182	1	0	2	7,712	2	0	2	7,772	2	0	2	7,985	2	0	2

CS CONTRACTOR SELECT

LITHONIA LIGHTING.

Catalog Number: CPRB AL013 UVOLT SWW9 80CRI DWH

Notes

Type: L1

Contractor Select™

COMPACT PRO™
LED Round High Bay



The Compact Pro High Bay (CPRB) is a budget-oriented high bay designed specifically with the contractor in mind. Its compact design makes it easier and quicker to install. Compact Pro is built with quality to last and performance to meet the needs of the job, making it the best choice for affordable and reliable light duty industrial applications like warehouses, gymnasiums, and multiple purpose rooms.

FEATURES:

- Compact design saves time and money during installation.
- Patent pending innovative control lens.
- Robust 6kV surge protection per ANSI standards for Industrial environments.
- Operates up to 55°C ambient.
- Standard with permanently attached die-cast aluminum hook with safety latch. Patent pending. Also includes 3' safety chain.
- 0-10V dimming driver standard for 10% to 100% dimming capabilities.

Catalog number	UPC	Description	Lumens	Input watts	Color temperature	Color rendering	Voltage	Distribution	Pallet Qty.
CPRB 18LM MVOLT 40K 80CRI DWH	00196182615429	LED Round High Bay	18,000	132	4000K	80	120-277	Medium	132
CPRB 24LM MVOLT 40K 80CRI DWH	00196182615498	LED Round High Bay	24,000	175	4000K	80	120-277	Medium	66
CPRB AL013 UVOLT SWW9 80CRI DWH	00196182615023	LED Round High Bay	12000/15000/18000	83/106/132	4000/5000K	80	120-347	Medium	132
CPRB AL013 UVOLT SWW9 80CRI DBL	00196182615054	LED Round High Bay	12000/15000/18000	83/106/132	4000/5000K	80	120-347	Medium	132
CPRB AL014 UVOLT SWW9 80CRI DWH	00196182615061	LED Round High Bay	21000/24000/27000	148/175/195	4000/5000K	80	120-347	Medium	66
CPRB AL014 UVOLT SWW9 80CRI DBL	00196182615078	LED Round High Bay	21000/24000/27000	148/175/195	4000/5000K	80	120-347	Medium	66

Accessories: *Order as separate catalog number.*

Mounting:	
CPRBSMB	Surface mount bracket (galvanized)
JBLMTG ADAPTER M12	3/4" reducer
LPM	Loop, male, damp location
JCBLSC120	10' safety cable
JCBLSC240	20' safety cable

CS CONTRACTOR SELECT

LITHONIA LIGHTING.

Specifications

INTENDED USE:
Ideal one-for-one replacement of conventional lighting systems such as HID and fluorescent. For use in light industrial applications such as, warehousing, gymnasiums, multi-purpose rooms, and other large indoor spaces. **Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**
Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.

CONSTRUCTION:
Cast driver housing gives superior thermal performance. Patent pending polycarbonate lens diffuses light source and reduces glare while protecting LEDs and providing medium distribution. Available in two sizes with optional switchable lumens (12000/15000/18000 or 21000/24000/27000) and color temperatures (4000K/5000K). Static lumen and color temperature versions also available. Field installable sensors available.

FINISH:
Black and white finishes available on switchable units and static available in white only.

ELECTRICAL:
70% lumen maintenance at > 54,000 hours. Thermally protected driver standard with 0-10V dimming allowing for 10% to 100% dimming capability. Fixture comes standard with 6' power cord and 6' low voltage dimming cord. Luminaire surge protection level: designed to withstand up to 6kV/3kA per ANSI C62.77 5-2015 Multi-volt driver, 120-277V standard for static versions. UVOLT driver, 120-347V standard with switchable versions.

INSTALLATION:
Compact Pro™ package includes patent pending permanently attached hook with safety latch safety hook and 7' galvanized safety cable. 3/4" reducer available for stem or hook mounting. Optional surface mount bracket also available.

LISTINGS:
CSA listed. Damp location listed. IP54 rated. Designed for use in ambient temperatures ranging from -40°C to 55°C when suspended 18" off ceiling; with the exception of AL014 which has a -37° C starting temperature.
DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY:
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Dimensions

Lumens package	Length	Width	Depth	Weight
	Dimensions shown in inches (centimeters)			Shown in pounds (kg)
18LM	12.98	12.98	3.36	5
24LM	15.14	15.14	3.35	6.1
AL013	12.98	12.98	3.36	5
AL014	15.14	15.14	3.35	6.1

Field installable sensors*	Utilizes sensor
CPRBSKSR MSD7 DV DWH KIT	MSD-7 WH-DV
CPRBSKSR MSD7 5V DWH KIT	MSD-7 WH-5V
CPRBSKSR MSD7 ADC DV DWH KIT	MSD-7 ADC WH-DV
CPRBSKSR MSD7 ADC 5V DWH KIT	MSD-7 ADC WH-5V
CPRBSKSR MSD ADC DV DWH KIT	MSD ADC WH-DV
CPRBSKSR MSD ADC 5V DWH KIT	MSD ADC WH-5V
CPRBSKSR MSD7 DV DBL KIT	MSD-7 WH-DV
CPRBSKSR MSD7 5V DBL KIT	MSD-7 WH-5V
CPRBSKSR MSD7 ADC DV DBL KIT	MSD-7 ADC WH-DV
CPRBSKSR MSD7 ADC 5V DBL KIT	MSD-7 ADC WH-5V
CPRBSKSR MSD ADC DV DBL KIT	MSD ADC WH-DV
CPRBSKSR MSD ADC 5V DBL KIT	MSD ADC WH-5V
CPRBSKSR RMSD07 DWH KIT	RMSD07 7 ZT EXTD8 900 50FC G2 J100
CPRBSKSR RMSD07 DBL KIT	RMSD07 7 BW ZT EXTD8 900 50FC G2 J100
CPRBSKSR RMSD045 DWH KIT	RMSD045 4.5 ZT EXTD8 900 50FC G2 J100
CPRBSKSR RMSD045 DBL KIT	RMSD045 4.5 BW ZT EXTD8 900 50FC G2 J100
CPRBSKSR RMSD045A DWH KIT	RMSD045A 4.5A WH ZT EXTD8 900 50FC G2 J100
CPRBSKSR RMSD045A DBL KIT	RMSD045A 4.5A BW ZT EXTD8 900 50FC G2 J100

* All sensor kits include sensor mounting plate in white (DWH) or black(DBL) to match your fixture.

ACCESSORIES



LPM 3/4" mounting adapter CPRBSMB

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DATE: 06/19/2025

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PROJECT TITLE AND SCHOOL LOCATION

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 13146 Exp. 09/30/2026 ELECTRICAL STATE OF CALIFORNIA

SHEET TITLE:

LIGHT FIXTURE CUT SHEETS PAGE 1

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

Mounting, Options & Accessories



Motion/Ambient Sensor

D = 7"
H = 9" (Standalone controls)
11" (nLight AIR controls, 2" antenna will be pointing down behind the sensor)
W = 11.5"



PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"
H = 9"
W = 11.5"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"
H = 4.4"
W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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Electrical Load

Performance Package	System Watts	Current (A) 120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	--	--
	9.0	--	--	--	--	0.031	0.021
P1	11.0	0.100	0.064	0.059	0.054	--	--
	14.1	--	--	--	--	0.046	0.031
P2	19.0	0.168	0.106	0.095	0.083	--	--
	22.8	--	--	--	--	0.067	0.050
P3	32.0	0.284	0.163	0.144	0.131	--	--
	37.1	--	--	--	--	0.107	0.079
P4	47.0	0.412	0.234	0.207	0.185	--	--
	53.5	--	--	--	--	0.153	0.112

Lumen Output in Emergency Mode (4000K, 80 CRI, T3M)

Option	Lumens
E10WH	1,358
E20WC	2,230

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

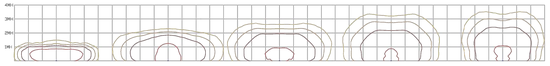
Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).
To calculate TLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.93	>0.87

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND
0.25 fc
0.5 fc
1.0 fc
3.0 fc



MH = 10ft
Grid = 10ft x 10ft

"P3 40K 80CRI T15" "P3 40K 80CRI T2M" "P3 40K 80CRI T3M" "P3 40K 80CRI T4M" "P3 40K 80CRI TFTM"

Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

LITHONIA LIGHTING. COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com WDGE2 LED Rev. 03/01/22
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WDGE2 LED

Architectural Wall Sconce
Precision Refractive Optic

Buy American

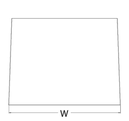
TITLE 20

Catalog Number	WDGE2 LED P2 T3M 40K 80CRI VW MVOLT PIR SRM BRZ
Notes	
Type	L3

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1):	7"
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight: (without options)	13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI) P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0[1]	27K 2700K	70CRI[8]	T1S Type I Short	MVOLT	**Shipped included**
	P1[1]	30K 3000K	80CRI	T2M Type II Medium	347[3]	SRM Surface mounting bracket
	P2[1]	40K 4000K	LW[6] Limited Wavelength	T3M Type III Medium	480[3]	ICW Indirect Canopy/Ceiling Washer bracket (dry/ damp locations only)[4]
	P3[1]	50K 5000K		T4M Type IV Medium		
	P4[1]	AMB[2] Amber		TFTM Forward Throw Medium		

Shipped separately
AWS 3/8inch Architectural wall spacer
PBBW 5 surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options		Finish	
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	**Standalone Sensors/Controls**	
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)	PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	DDBXD Dark bronze
PE[7]	Photocell, Button Type	PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching	DBLXD Black
DMG[4]	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.	DNAXD Natural aluminum
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.	PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	DWHXD White
BAA	Buy America(n) Act Compliant	**Networked Sensors/Controls**	DSSXD Sandstone
		NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.	DDBTXD Textured dark bronze
		NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.	DBLBXD Textured black
		See page 4 for out of box functionality	DNATXD Textured natural aluminum
			DWHGXD Textured white
			DSSTXD Textured sandstone

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PROJECT TITLE AND SCHOOL LOCATION

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STAMPS/SEALS



SHEET TITLE:

LIGHT FIXTURE CUT SHEETS PAGE 2 - L3 & L8

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER: **E300B**
DATE: 03/04/25 | SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

High-performance floodlight · Wide beam · RGBW **BEGA**

Type: L8
BEGA Product:
Project:
Modified:

B84553-VRY

Application
RGBW high-output, yoke mounted floodlight designed to provide the perfect colored light for static or dynamic lighting applications. Due to carefully designed optics and color mixing, the lens aperture exactly matches the effect on the illuminated surface. For use in ambient temperatures that do not exceed 45° C.

Materials
Clear safety glass
Marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Stainless steel mounting yoke
Pure anodized aluminum reflector surface

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 67

Weight: 46.7 lbs.

EPA (Effective projection area): 2.2 sq. ft.

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-40° C
Maximum ambient temperature	45° C
LED module wattage	176.0 W
System wattage	197.0 W
Controllability	DMX and RDM compatible
Color rendering index	Ra > 80
Luminaire lumens	11927 lm
LED service life (L70)	60000 hrs

Dynamic range
RGBW for additive color mixing, standard white color temperature is 4000K

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

Available options
☐ B71101 Glare shield · 180°
☐ CUS Custom finish
☐ FSC Fusing
☐ MGU Marine grade undercoat
☐ RAL RAL finish
☑ VRY Vibration resisting yoke

Available accessories
☐ B70761 Cross beam · 3 floodlights
☐ B70762 Pole cap · 2 floodlights
☐ B70763 Pole cap · 3 floodlights
☐ B70764 Pole cap · 4 floodlights
☐ B70765 Cross beam · 6 floodlights
☐ B79550 Pole mount arm
☐ B79551 Wall mount arm
☐ B79555 Pole-top mounting hub

See individual accessory spec sheet for details.







High-performance floodlight · Wide beam · RGBW

	LED	□	A	B	C
B84553	176.0W	45°	19 7/32	20 3/4	12 1/8

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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Updated 10/25/24

Control / Sensor Options

Motion/Ambient Sensor (PIR_, PIRH_)

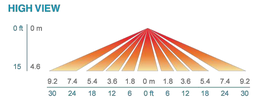
Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

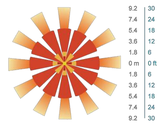
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR

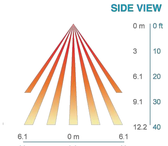
HIGH VIEW



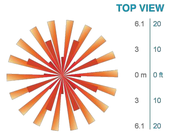


PIRH

SIDE VIEW



TOP VIEW



Option	Dim Level	High Level (when triggered)	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

LITHONIA LIGHTING. COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com WDGE2 LED Rev. 03/01/22
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Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

NOTES
1 P0 option not available with sensors/controls.
2 P1-P4 not available with AMB and LW.
3 AMB and LW always go together.
4 70CRI only available with T3M and T4M.
5 347V and 480V not available with E10WH or E20WC.
6 Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
7 PE not available in 480V or with sensors/controls.
8 DMG option not available with sensors/controls.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI) Lumens	LPW	B	U	G	30K (3000K, 80 CRI) Lumens	LPW	B	U	G	40K (4000K, 80 CRI) Lumens	LPW	B	U	G	50K (5000K, 80 CRI) Lumens	LPW	B	U	G	Amber (Limited Wavelength) Lumens	LPW	B	U	G
P0	7W	T1S	636	92	0	0	0	666	97	0	0	0	699	101	0	0	1	691	100	0	0	1	712	47	0	0	1
		T2M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T3M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T4M	648	94	0	0	0	679	98	0	0	0	712	103	0	0	0	704	102	0	0	0	726	47	0	0	0
		TFTM	652	95	0	0	0	683	99	0	0	0	717	104	0	0	0	708	103	0	0	0	730	48	0	0	1
P1	11W	T1S	1,105	99	0	0	1	1,157	104	0	0	1	1,215	109	0	0	1	1,200	107	0	0	1					
		T2M	1,150	103	0	0	1	1,204	108	0	0	1	1,264	113	0	0	1	1,249	112	0	0	1					
		T3M	1,150	103	0	0	1	1,205	108	0	0	1	1,265	113	0	0	1	1,250	112	0	0	1					
		T4M	1,126	101	0	0	1	1,179	106	0	0	1	1,238	111	0	0	1	1,223	110	0	0	1					
		TFTM	1,133	101	0	0	1	1,186	106	0	0	1	1,245	112	0	0	1	1,230	110	0	0	1					
P2	19W	T1S	1,801	95	1	0	1	1,886	99	1	0	1	1,981	104	1	0	1	1,957	103	1	0	1					
		T2M	1,875	99	1	0	1	1,963	103	1	0	1	2,061	109	1	0	1	2,037	107	1	0	1					
		T3M	1,876	99	1	0	1	1,964	103	1	0	1	2,062	109	1	0	1	2,038	107	1	0	1					
		T4M	1,836	97	1	0	1	1,922	101	1	0	1	2,018	106	1	0	1	1,994	105	1	0	1					
		TFTM	1,847	97	1	0	1	1,934	102	1	0	1	2,030	107	1	0	1	2,006	106	1	0	1					
P3	32W	T1S	2,809	87	1	0	1	2,942	92	1	0	1	3,089	96	1	0	1	3,052	95	1	0	1					
		T2M	2,924	91	1	0	1	3,062	95	1	0	1	3,215	100	1	0	1	3,176	99	1	0	1					
		T3M	2,925	91	1	0	1	3,063	95	1	0	1	3,216	100	1	0	1	3,177	99	1	0	1					
		T4M	2,862	89	1	0	1	2,997	93	1	0	1	3,147	98	1	0	1	3,110	97	1	0	1					
		TFTM	2,880	90	1	0	1	3,015	94	1	0	1	3,166	99	1	0	1	3,128	97	1	0	1					
P4	47W	T1S	3,729	80	1	0	1	3,904	84	1	0	1	4,099	88	1	0	1	4,051	87	1	0	1					
		T2M	3,881	83	1	0	1	4,063	87	1	0	1	4,267	91	1	0	1	4,216	90	1	0	1					
		T3M	3,882	83	1	0	1	4,065	87	1	0	1	4,268	91	1	0	1	4,217	90	1	0	1					
		T4M	3,799	81	1	0	1	3,978	85	1	0	1	4,177	90	1	0	1	4,127	88	1	0	1					
		TFTM	3,822	82	1	0	1	4,002	86	1	0	1	4,202	90	1	0	1	4,152	89	1	0	1					

Performance Package	System Watts	Dist. Type	27K (2700K, 70 CRI) Lumens	LPW	B	U	G	30K (3000K, 70 CRI) Lumens	LPW	B	U	G	40K (4000K, 70 CRI) Lumens	LPW	B	U	G	50K (5000K, 70 CRI) Lumens	LPW	B	U	G
P0	7W	T3M	737	107	0	0	0	763	111	0	0	0	822	119	0	0	0	832	121	0	0	1
		T4M	721	105	0	0	0	746	108	0	0	0	804	117	0	0	1	814	118	0	0	1
P1	11W	T3M	1,280	115	0	0	1	1,325	119	0	0	1	1,427	128	1	0	1	1,445	129	1	0	1
		T4M	1,253	112	0	0	1	1,297	116	0	0	1	1,397	125	0	0	1	1,415	127	0	0	1
P2	19W	T3M	2,087	110	1	0	1	2,160	114	1	0	1	2,327	123	1	0	1	2,357	124	1	0	1
		T4M	2,042	108	1	0	1	2,114	111	1	0	1	2,278	120	1	0	1	2,306	121	1	0	1
P3	32W	T3M	3,254	101	1	0	1	3,369	105	1	0	1	3,629	113	1	0	1	3,675	114	1	0	1
		T4M	3,185	99	1	0	1	3,297	103	1	0	1	3,552	111	1	0	1	3,597	112	1	0	1
P4	47W	T3M	4,319	93	1	0	1	4,471	96	1	0	1	4,817	103	1	0	2	4,878	105	1	0	2
		T4M	4,227	91	1	0	1	4,376	94	1	0	2	4,714	101	1	0	2	4,774	102	1	0	2

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DRAFTER: CM02 DRAWING FILENAME: 24-822E300B PATHNAME: G:\24\822\E\Sheets
DATE: 16 June 2025 TIME: 8:54 am
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LITHONIA LIGHTING®

Catalog Number

Notes

Type

FEATURES & SPECIFICATIONS

INTENDED USE — **These specifications are for USA standards only.** Round Straight Steel is a general purpose light pole for up to 30-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION —

Pole Shaft: The pole shaft is of 0.120" uniform wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 42,000 psi. Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly round in cross-section down length of shaft with no taper. Standard shaft diameters are 3", 4", 4.5" and 5". 6" diameter shaft available by quote. Shaft wall thickness of .180" is available with certain tube diameters.

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable press-fit, black, low density polyethylene top cap.

Handhole: A reinforced handhole with grounding provision is provided at 12" from the base end of the pole assembly on side A. Every handhole incudes a cover and cover attachment hardware. 2.5" x 5" rectangular handhole is provided on pole.

Base Cover: A two-piece ABS round plastic full base cover is provided with each pole assembly. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel or heavy duty two-piece cast aluminum full base cover. All base covers are finished to match pole.

Anchor Base/Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel rod having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

HARDWARE – All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH – Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



Anchor Base Poles

RSS

ROUND STRAIGHT STEEL

Buy American

OUTDOOR

POLE-RSS

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Contact factory for performance data on any configurations not shown here.

Performance Package	Input Wattage	Distribution	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	25	ASY	2,924	2	1	2	115	3,022	2	2	2	119	3,095	2	2	2	122	3,168	2	2	2	125	3,168	2	2	2	125
		PATH	2,529	2	1	2	100	2,613	2	2	2	103	2,676	2	2	2	105	2,739	2	2	2	108	2,739	2	2	2	108
		SYM	3,086	2	1	1	121	3,189	2	1	1	126	3,266	2	1	1	129	3,344	2	1	1	132	3,344	2	1	1	132
P2	38	ASY	4,521	3	2	3	119	4,672	3	2	3	123	4,785	3	2	3	126	4,898	3	2	3	129	4,898	3	2	3	129
		PATH	3,909	2	2	2	103	4,040	2	2	2	106	4,137	2	2	2	109	4,235	3	2	3	111	4,235	3	2	3	111
		SYM	4,772	2	2	1	126	4,931	3	2	1	130	5,050	3	2	1	133	5,169	3	2	1	136	5,169	3	2	1	136
P3	54	ASY	6,387	3	2	3	119	6,600	3	2	3	123	6,760	3	2	3	126	6,919	3	2	3	129	6,919	3	2	3	129
		PATH	5,523	3	2	3	103	5,707	3	2	3	106	5,845	3	2	3	109	5,983	3	2	3	112	5,983	3	2	3	112
		SYM	6,741	3	2	2	126	6,966	3	2	2	130	7,135	3	2	2	133	7,303	3	2	2	136	7,303	3	2	2	136
P4	86	ASY	10,150	4	2	4	118	10,489	4	2	4	122	10,742	4	2	4	125	10,996	4	2	4	128	10,996	4	2	4	128
		PATH	8,777	3	2	3	102	9,070	3	2	3	106	9,289	3	2	3	108	9,509	3	2	3	111	9,509	3	2	3	111
		SYM	10,713	3	2	2	125	11,071	3	2	2	129	11,338	3	2	2	132	11,606	3	2	2	135	11,606	3	2	2	135
P5	123	ASY	14,250	4	2	4	116	14,724	4	2	4	120	15,081	4	3	4	123	15,437	4	3	4	126	15,437	4	3	4	126
		PATH	12,322	4	2	4	101	12,733	4	3	4	104	13,041	4	3	4	106	13,349	4	3	4	109	13,349	4	3	4	109
		SYM	15,040	4	2	3	123	15,541	4	2	3	127	15,917	4	2	3	130	16,293	4	2	3	133	16,293	4	2	3	133

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		LAT Factor
0°C	32°F	1.06
5°C	41°F	1.05
10°C	50°F	1.04
15°C	59°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.96

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **RADPT LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate ILF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Projected LED Lumen Maintenance				
	0	25,000	50,000	100,000
P1	1.00	0.96	0.91	0.82
P2	1.00	0.96	0.91	0.82
P3	1.00	0.96	0.91	0.82
P4	1.00	0.96	0.91	0.82
P5	1.00	0.95	0.89	0.78

Electrical Load

Lumen Package	LED Drive Current	Voltage	Wattage		Current (A)					
					120	208	240	277	347	480
P1	500	42.8	21.4	Input Current	0.22	0.13	0.11	0.1	0.08	0.06
				System Watts	26	26	26	27	25	26
P2	770	43	33.1	Input Current	0.33	0.19	0.16	0.14	0.11	0.08
				System Watts	39	39	39	39	38	38
P3	1100	43.2	47.5	Input Current	0.46	0.26	0.23	0.2	0.16	0.12
				System Watts	55	54	54	54	54	54
P4	900	87.3	78.6	Input Current	0.73	0.42	0.36	0.32	0.25	0.18
				System Watts	87	86	86	86	86	86
P5	1250	88.2	110.2	Input Current	1	0.58	0.5	0.44	0.35	0.25
				System Watts	120	119	119	119	120	120

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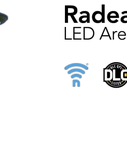


Radean Post Top

LED Area Luminaire

Buy American

Catalog Number: RADPT LED P2 4K PATH MVOLT PT4 DSA 14 FT 4C PT (14' OVERALL HEIGHT)

Notes

Type: L4

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA: 1.02 ft² (0.105 m²)

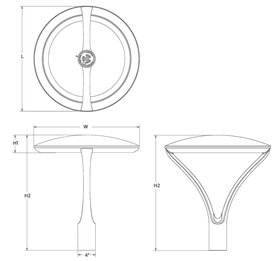
Length: 24" (61cm)

Width: 24" (61cm)

H1 Luminaire Height: 4" (10.16cm)

H2 Luminaire Height: 26" (66.04cm)

Weight: 38lbs (17.24Kg)



Introduction

The architecturally-inspired shape of the RADEAN™ post top area luminaire embodies the grace and strength of the RADEAN family. The twin copper-core cast aluminum arms support the slender superstructure, creating a beautiful sculpture by day transforming into a beacon of comfort by night. Triangular arms redirect reflection maintaining its visually quiet appearance. With sleek lines and simple silhouettes, these LED luminaires use specialized lighting and visual comfort to transform common areas like courtyards, outdoor retail locations, universities and corporate campuses into pedestrian-friendly nighttime environments.

Ordering Information

EXAMPLE: RADPT LED P3 30K SYM MVOLT PT4 PIR DNAXD

RADPT LED									
Series	**Performance package**	**Color temperature**	**Distribution**	**Voltage**		**Mounting** (required)			
RADPT LED	P1 3,000 Lumens	27K 2700K	SYM Symmetric type V	MVOLT[1]	277[1]	PT[4]	Slips inside a 4" OD round metal pole		
	P2 5,000 Lumens	30K 3000K	ASY Asymmetric type IV	120[1]	347	RADPT20	Slips over a 2 3/8" diameter tenon		
	P3 7,000 Lumens	35K 3500K	PATH Pathway type III	208[1]	480	RADPT25	Slips over a 2 7/8" diameter tenon		
	P4 10,000 Lumens	40K 4000K		240[1]					
	P5 15,000 Lumens	50K 5000K							

Control options		Other options		Finish (required)	
Shipped installed		SF Single Fuse[1]	**Shipped installed**	DDBXD Dark bronze	DDBTXD Textured dark bronze
NLTAIR2 nLight AIR 2.0 enabled[1]		DF Double Fuse[1]	HS Houseside shield[10]	DBLXD Black	DBLBXD Textured black
PIR Bi-level motion/sensor (100% to 30%)[4,5,6,7]		R90 Rotated optics[9]		DNAXD Natural aluminum	DNATXD Textured natural aluminum
PE Button photocell[8]				DWHXD White	DWHGXD Textured white
FAO Field adjustable output[6,8]					

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DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
28328 AGOURA RD. 203 | AGOURA HILLS CA. 91301 | 805-558-4334

CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
PHONE (805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER KENNETH M. LUCCI No. E 23460 Exp. 09/30/2026 ELECTRICAL STATE OF CALIFORNIA

SHEET TITLE:

LIGHT FIXTURE CUT SHEETS PAGE 3

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E300C

DATE: 03/04/25 SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

RSS Round Straight Steel Pole

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** RSS 20 4-5B DM19 DDB

RSS					
Series	**Nominal fixture mounting height**	**Nominal shaft base size/wall thickness** [1]	**Mounting** [2]	**Options**	**Finish** [11]
RSS	8' 30 ' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	3B 3" (.120") 4B 4" (.120") 4-5B 4 1/2" (.120") 5B 5" (.120") (See technical information table for complete ordering information.)	Tenon mounting PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) [2] T35 4" O.D. (3-1/2" NPS) [2] KAC/KAD/KSC/KSF/KVB/KVF Drill mounting [3] DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM32 3 at 120° DM49 4 at 90° CSX/DSX/RSX AERIS™/OMERO™/HLA/KAX Drill mounting [3] DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM32AS 3 at 120° DM39AS 3 at 90° DM49AS 4 at 90° RAD drill mounting [3,4] DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90° ESX Drill mounting [3] DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90° AERIS™ Suspend drill mounting [3,5] DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90°	Shipped installed L/AB Less anchor bolts (Include when anchor bolts are not needed) L/FBC Less full base cover (Include to order pole without a base cover) VD Vibration damper [4] TP Tamper resistant handhole cover fasteners HAxy Horizontal arm bracket (1 fixture) [3,8] FDLxy Festoon outlet less electrical [3,9] CPL12/xy 1/2" coupling [7] CPL34/xy 3/4" coupling [7] CPL1/xy 1" coupling [7] NPL12/xy 1/2" threaded nipple [7] NPL34/xy 3/4" threaded nipple [7] NPL1/xy 1" threaded nipple [7] EHHxy Extra handhole [7,10] BAA Buy America(n) Act Compliant [11] IC Interior coating [12] UL UL listed with label (Includes NEC compliant cover) NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) Shipped separately (blank) FBC Full base cover (plastic) (blank) TC Top cap (blank) HHC Handhole cover	Super Durable DDBXD Dark bronze DWHXD White DBLXD Black DMBXD Medium bronze DNAXD Natural aluminum GALV Galvanized finish Classic colors DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue Architectural colors (powder finish) Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available.

NOTES:

1. Wall thickness will be signified with a "B" (11 Gauge) or a "T" (7-Gauge) in nomenclature. "B" - .120" | "T" - .180"
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/ T20. The combination includes a required extra handhole.
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. DM19RAD, DM28RAD and DM32RAD require a minimum top O.D. of 4". DM29RAD, DM39RAD and DM49RAD require a minimum top O.D of 4.25".
5. Insert "1" or "2" to designate fixture size e.g. DM19AST2.
6. VD not available with 3" pole. On 4" and 5" poles, VD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's total height. *Example: Pole height is 25ft, A provision cannot be placed above 16ft.*
7. Specify location and orientation when ordering option.
   For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
   Example: 5ft = 5 and 20ft 3in = 20-3
   For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.
   Example: 1/2" coupling at 5' 8 ", orientation C = CPL12/5-8C
8. Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise. If ordering two horizontal arm at the same height, specify with HAxyy. *Example: HA20D*
9. FDL does not come with additional covering.
10. Combination of tenon-top and drill mount includes extra handhole.
11. Use when mill certifications are required.
12. Provides enhanced corrosion resistance.
13. Finish must be specified. Additional colors available; see Architectural Colors brochure linked here (Form No. 794.3)

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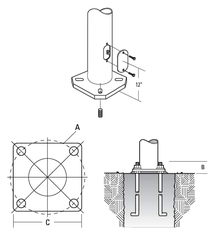
RSS Round Straight Steel Pole

TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust											
Catalog number	**Nominal shaft length (ft)***	**Pole shaft size (in x ft)**	**Wall thickness (in)**	**80 mph**	**Max weight**	**90 mph**	**Max weight**	**100 mph**	**Max weight**	**Bolt size (in. x in. x in.)**	**Approximate ship weight (lbs.)**
RSS B 4-5B	8	4.5 x 8.0	0.120	24.7	630	19.7	495	16.0	430	3/4 x 18 x 3	55
RSS 10 3B	10	3.0 x 10.0	0.120	10.0	250	7.7	190	6.0	175	3/4 x 18 x 3	55
RSS 10 4B	10	4.0 x 10.0	0.120	19.1	480	15	375	12.2	305	3/4 x 18 x 3	70
RSS 10 4-5B	10	4.5 x 10.0	0.120	24.5	615	19.5	490	15.8	395	3/4 x 18 x 3	75
RSS 12 3B	12	3.0 x 12.0	0.120	7.7	195	5.8	145	4.4	130	3/4 x 18 x 3	60
RSS 12 4B	12	4.0 x 12.0	0.120	15.0	390	11.8	300	9.5	240	3/4 x 18 x 3	80
RSS 12 4-5B	12	4.5 x 12.0	0.120	19.8	495	15.7	395	12.7	320	3/4 x 18 x 3	85
RSS 14 3B	14	3.0 x 14.0	0.120	6.0	175	4.4	130	3.3	90	3/4 x 18 x 3	70
RSS 14 4B	14	4.0 x 14.0	0.120	12.2	305	9.4	250	7.6	195	3/4 x 18 x 3	90
RSS 14 4-5B	14	4.5 x 14.0	0.120	16.2	405	12.8	320	10.3	260	3/4 x 18 x 3	95
RSS 15 4-5B	15	4.5 x 15.0	0.120	12.0	300	9.5	250	7.5	200	3/4 x 18 x 3	96
RSS 16 3B	16	3.0 x 16.0	0.120	4.6	125	3.2	100	2.3	60	3/4 x 18 x 3	80
RSS 16 4B	16	4.0 x 16.0	0.120	9.6	250	7.4	185	5.9	150	3/4 x 18 x 3	100
RSS 16 4-5B	16	4.5 x 16.0	0.120	13.1	330	10.2	265	8.2	205	3/4 x 18 x 3	105
RSS 18 3B	18	3.0 x 18.0	0.120	3.4	90	2.3	60	1.4	70	3/4 x 18 x 3	90
RSS 18 4B	18	4.0 x 18.0	0.120	7.6	190	5.7	180	4.5	130	3/4 x 18 x 3	110
RSS 18 4-5B	18	4.5 x 18.0	0.120	10.5	265	8.2	210	6.5	165	3/4 x 18 x 3	115
RSS 20 3B	20	3.0 x 20.0	0.120	2.4	100	1.4	75	--	--	3/4 x 18 x 3	100
RSS 20 4B	20	4.0 x 20.0	0.120	6.0	150	4.45	150	3.45	125	3/4 x 18 x 3	120
RSS 20 4-5B	20	4.5 x 20.0	0.120	8.5	215	6.6	165	5.2	130	3/4 x 18 x 3	130
RSS 20 5B	20	5.0 x 20.0	0.120	11.75	300	9.1	230	7.25	180	3/4 x 18 x 3	145
RSS 22 4-5B	22	4.5 x 22.0	0.120	6.0	150	4.5	125	3.75	100	3/4 x 18 x 3	134
RSS 25 4B	25	4.0 x 25.0	0.120	2.85	100	1.95	75	1.35	75	3/4 x 18 x 3	145
RSS 25 4-5B	25	4.5 x 25.0	0.120	4.8	130	3.6	90	2.7	90	3/4 x 18 x 3	145
RSS 25 5B	25	5.0 x 25.0	0.120	7.25	180	5.5	150	4.25	150	3/4 x 18 x 3	180
RSS 30 4-5B	30	4.5 x 30.0	0.120	2.3	80	1.5	75	1.0	60	3/4 x 18 x 3	185
RSS 30 5B	30	5.0 x 30.0	0.120	4.2	150	3	125	2.25	100	3/4 x 18 x 3	210

NOTE: EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex 20-6 equals 20ft 6in.

BASE DETAIL



POLE DATA					
Shaft base size	**Bolt circle A**	**Bolt projection B**	**Base square C**	**Template description**	**Anchor bolt description**
3"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0
4"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0
4.5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0
5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0

HANDHOLE ORIENTATION



Default DM19 is on side B.

Handhole

IMPORTANT INSTALLATION NOTES:

- **Do not** erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

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Ordering Information

Accessories

Ordered and shipped separately.

RADHS Houseside shield (shield is white)

RADCLDDBXD U Decorative clamshell base for 4" RSS pole (specify finish)

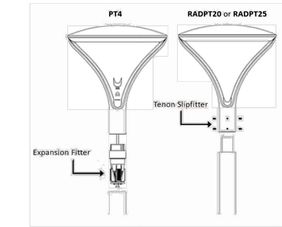
RADFBC DDBXD U Full base cover for 4" RSS pole (specify finish)

For more control options, visit DTL and DTL online.

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
2. Required nominal 4" round straight metal pole.
3. NLTAIR2 not available with PIR, PE or FAO. Must link to external nLight Air network.
4. PIR will work with FAO, if adjustable low-end trim is required.
5. PIR must specify 120V, 277V, 347V or 480V. Not available in MVOLT, 208V or 240V.
6. PE and PIR are available together.
7. PIR for use only on luminaires mounted under 15'.
8. Field adjustable high-end trim.
9. For left rotation, select R90 and rotate luminaire 180° on pole.
10. Also available as a separate accessory; see Accessories information at left. HS not available with R90. Shield is field rotatable shield in 180° increments.

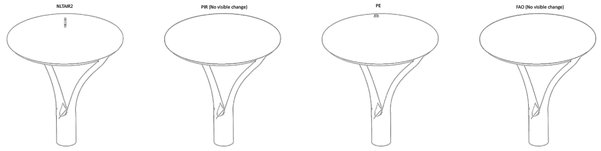
Mounting



Recommended Poles for use with RADEAN RADPT LED luminaires.			
Acuity Part Number	**Description**	**For luminaires**	**Used with Mounting**
RSS 10 4B PT DDBXD	10' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 12 4B PT DDBXD	12' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 14 4B PT DDBXD	14' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 16 4B PT DDBXD	16' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 18 4B PT DDBXD	18' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 20 4B PT DDBXD	20' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 25 4B PT DDBXD	25' Round Straight Steel - 4" O.D. - Open Top	RADPT LED	PT4
RSS 10 4BT20 DDBXD	10' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 12 4BT20 DDBXD	12' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 14 4BT20 DDBXD	14' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 16 4BT20 DDBXD	16' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 18 4BT20 DDBXD	18' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 20 4BT20 DDBXD	20' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20
RSS 25 4BT20 DDBXD	25' Round Straight Steel - 4" O.D. - Tenon Top	RADPT LED	RADPT20

* Customer must verify pole loading per required design criteria and specified wind speed. Consult pole specification sheet for additional details.

Control Options



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LITHONIA LIGHTING®

Catalog Number	CSVT-L48-5000LM-MVOLT-35K-80CRI-STSL
Notes	
Type	S1

Vapor Tight LED Strip Light

CSVT



FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for damp/wet locations such as outdoor venues, canopies and locker rooms. Not for use or installation in direct outdoor sunlight. Must be installed under canopy or covered ceiling. For direct sunlight installations, please refer to the FE8 product family. **Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. **Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.**

CONSTRUCTION
- Light Gray Polycarbonate housing
- Frosted Polycarbonate lens
- Poured in place polyurethane gasket
- Polycarbonate Latches, optional stainless steel latches available.
- Standard 1/2" wet location fitting

ELECTRICAL
- High Efficiency LEDs meet DLC Standard
- MVOLT (120-277V) & 347V
- 0-10V Dimming standard

Luminaire Surge Protection Level: Designed to withstand up to 2.5kV/0.75kA per ANSI C62.77-5-2015. For applications requiring higher level of protection additional surge protection must be provided.

INSTALLATION
- Surface (wall, ceiling) using standard brackets (301 stainless steel) includes bail for chain hanging
- Suspended (chain, cable) using standard brackets (301 stainless steel)

LISTINGS
- CSA Certified to UL & C-UL Standards for wet location
- IP65, IP66 rated per IEC60529
- NSF Splash zone rated
- FCC Title 47, Part 15 Subpart B compliant
- 2.5kV/0.75kA Surge Rated per ANSI C82-77-5-2015
- CSA Ambient Listings on Page 3
- Lumen Maintenance Listed on Page 3

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** CSVT L48 AL03 MVOLT SWW3 80CRI

Series	Length	Lumen Output	Voltage	Color temperature	Color rendering index
CSVT Linear LED Vapor Tight	L48 48"	3000LM 3,000 lumens ‡	MVOLT 120-277V	35K 3500K ‡	80CRI 80 CRI
		4000LM 4,000 lumens ‡	347 347V	40K 4000K ‡	
		5000LM 5,000 lumens ‡		50K 5000K ‡	
		6000LM 6,000 lumens ‡		SWW3 Switchable white, 35K / 40K / 50K	
		AL03 Switchable lumens, 3000LM / 4000LM / 5000LM			
	L96 96"	6000LM 6,000 lumens ‡			
		8000LM 8,000 lumens ‡			
		10000LM 10,000 lumens ‡			
		12000LM 12,000 lumens ‡			
		AL04 Switchable lumens, 6000LM, 8000LM, and 10000LM			

Options

STSL	Stainless steel latches	Individual Controls ‡	
IE7WCP	Emergency battery pack, 7W, CA Title 20 Noncompliant ‡	SBOR10	360° integral low mount motion sensor (standard on/off operation)
IE7WCPHE	Emergency battery pack, 7W, Certified in CA Title 20 MAEDBS ‡	SBOR10 D 3V	360° integral low mount motion sensor with dimming (low trim set at 30%)
WLFEND2	Wet location fitting (fittings out both ends) ‡	SBOR10 P	360° integral low mount motion sensor with photocell
		nLight Wireless Controls ‡	
		NLTAIR2 RSBOR10	nLight (wireless) gen 2 low mount occupancy & daylight sensor

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart.

‡ Option Value Ordering Restrictions	
Option value	**Restriction**
35K, 40K, 50K	Not available with ALO lumen packages.
3000LM, 4000LM, 5000LM, 6000LM, 8000LM, 10000LM, 12000LM	Not available with SWW3.
CSVT STSL LATCH	Requires two for L96.
IE7WCP, IE7WCPHE	Not available with 347V.
Individual Controls	Not available with WLFEND2 option.
nLight Wireless Controls	Not available with WLFEND2 option.
WLFEND2	Not available with cord set or sensor options.

Accessories: *Order as separate catalog number.*

CSVT STSL LATCH	Stainless steel latch kit (Set of 10) ‡
CSVTRMBA	Angle mount bracket (QTY of 2) (316 stainless steel)
CSVTRMBU	Rigid mount U-bolt bracket (QTY of 2) (316 stainless steel)
CSVTRMBX	Rigid mount bracket (QTY of 2) (316 stainless steel)
CSVTSMB	Replacement standard mounting brackets (QTY of 2) (301 stainless steel)
MHCH36SS	36" stainless steel chain (QTY of 2)

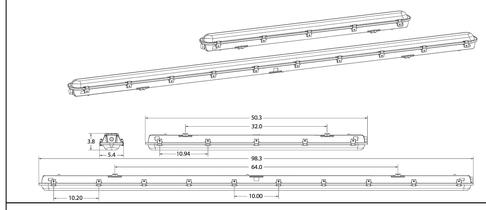
How to Estimate Delivered Lumens in Emergency Mode
Use the formula below to estimate the delivered lumens in emergency mode:
Delivered Lumens = 1.25 × P x LPW
P = Output power of emergency driver. P = 10W for IE10WCPHE
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. The LPW rating is also available at Designlight Consortium.

DIMENSIONS

All dimensions are shown in inches unless otherwise noted.

Length	Width	Height	Length	Approximate weight	Fixtures per pallet
L48	5.4	3.8	50.3	5 lbs	70
L96	5.4	3.8	98.3	10 lbs	70

*Weights will vary slightly with added options.



CSVT Vapor Tight LED Strip Light

OPERATIONAL DATA

Length	Package	Voltage	Watts	3500 K Lumens	3500 K LPW	4000 K Lumens	4000 K LPW	5000 K Lumens	5000 K LPW	Comparable Lightsource
L48	3000LM	MVOLT	24	3033	125	3106	128	3134	129	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
		347	28		108		110		111	
	4000LM	MVOLT	34	4065	119	4163	122	4200	123	2-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
		347	40		102		105		106	
	5000LM	MVOLT	42	4829	115	4946	118	4989	119	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
		347	49		99		101		102	
	6000LM	MVOLT	49	6066	125	6213	128	6268	129	2-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
		347	56		42		110		111	
	AL03 (3000LM)	MVOLT	24	3019	124	3106	128	3141	129	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
		347	28		107		110		111	
	AL03 (4000LM)	MVOLT	34	4046	118	4163	122	4210	123	2-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
		347	40		102		105		106	
	AL03 (5000LM)	MVOLT	42	4806	114	4946	118	5001	119	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
		347	49		98		101		102	
L96	6000LM	MVOLT	49	6066	125	6213	128	6268	129	2-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
		347	56		108		110		111	
	8000LM	MVOLT	68	8130	119	8326	122	8400	123	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
		347	80		102		105		106	
	10000LM	MVOLT	84	9658	115	9891	118	9979	119	4-lamp 32W T8, 2-lamp 54W T5HO, 150W HID
		347	98		99		101		102	
	12000LM	MVOLT	103	12133	118	12425	121	12535	122	4-lamp 32W T8, 3-lamp 54W T5HO, 150W HID
		347	120		101		104		105	
	AL04 (6000LM)	MVOLT	49	6038	124	6213	128	6283	129	2-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
		347	56		107		110		111	
	AL04 (8000LM)	MVOLT	68	8092	118	8326	122	8420	123	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
		347	80		102		105		106	
	AL04 (10000LM)	MVOLT	84	9613	114	9891	118	10003	119	4-lamp 32W T8, 2-lamp 54W T5HO, 150W HID
		347	98		98		101		102	

*All values are typical and are at 25C. Actual performance may vary and is dependent on operating environment.

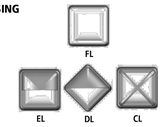
MILLENIUM™ SQUARE

MS11 SERIES – LOW PROFILE HOUSING

PROJECT INFORMATION

Job Name	
Fixture Type	L6
Catalog Number	MS11EL-PP-DB10L35K-DV
Approved by	

PRODUCT FEATURES:
- Surface mount – ceiling (FL & CL only) or wall mount; 12"Wx12"Hx4"D (CL, EL, FL) 15"Wx15"Wx4"D (DL)
- Peace of Mind Guarantee®
- Dust and water protected to IP64 standards
- ADA compliant



SPECIFICATIONS

BASEPLATE: Marine-grade die-cast aluminum. Integral heat sinks. Baseplate flange interlocks and wraps around lens base producing maximum moisture deflection and resistance to prying. Baseplate provided with four-point mounting holes and one wireway hole. Standard matte black, dark bronze or matte white exterior TGIC polyester powder coat – 5-step pre-treatment. See Ordering Information for optional finishes.

REFLECTOR: Full reflector/wire cover – 92% reflectivity.

LENS: UV-stabilized, high impact resistant, virgin injection molded polycarbonate. High efficiency blondel fluted lens maximizes uniformity. Lens secured with four concealed captive Torx® with center pin fasteners. Exclusive water channeling lens design provides 360° ingress protection.

LENS BASE/GRILLE: High impact resistant, injection molded matte black, dark bronze or matte white polycarbonate. Optional Light Gray, Silver, Forest Green or Custom Color (see Ordering Information below) are chemically bonded, impact resistant finishes.

GASKETING: Die-cut, closed cell EPDM self adhesive gasket seals baseplate to mounting surface. Closed cell, silicone "O" ring gaskets positioned and friction secured in gasket channels of lens base, baseplate and optional surface adapter.

HARDWARE: Four stainless steel Torx® T-20 with center pin fasteners.

ELECTRICAL: Available in 3500K, 4000K, and 5000K color temperatures, 80 CRI. 120-277VAC, 50/60Hz electrical input with high power factor electronic, constant-current driver (> 90 PF). Standard 0-10V dimming with 1-100% range; maximum driver source of 200 µA.

SENSOR & CONTROLS: Optional sensor available with compatible third party controls. To see the full list of compatible controls, click here.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty. Peace of Mind Guarantee against breakage.

LISTINGS: Luminaire is certified to UL Standards by either Underwriters Laboratory or Intertek Testing Laboratory for Wet Location (listing includes Emergency Battery Pack "EL" option). UL certified IP64 per IEC 60598. ADA Compliant. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.

ORDERING INFORMATION (Ex: MS11DL-PP-MW-20L40K-DV)

Model | Lens Type | Finish | Lamp Type | Voltage | Options | Accessories

PP

Model
- **MS11CL** Crossbar
- **MS11DL** Diamond Eyelid
- **MS11EL** Eyelid
- **MS11FL** Full Face

Lens Type
- **PP** Pearlescent Polycarbonate

Finish
- **DB** Dark Bronze
- **FG** Forest Green
- **LG** Light Gray
- **MB** Matte Black
- **MW** Matte White
- **SL** Silver
- **CC** Custom Color (Consult factory)

Lamp Type
- **10L35K** 10 Watt 3500K LED
- **10L40K** 10 Watt 4000K LED
- **10L50K** 10 Watt 5000K LED
- **20L35K** 20 Watt 3500K LED
- **20L40K** 20 Watt 4000K LED
- **20L50K** 20 Watt 5000K LED

Voltage
- **120** 120 Volts
- **277** 277 Volts
- **347**† 347 Volts
- **DV**† 120-277 Volts

Options
- **LEL-SA*** LED Emergency Battery Backup with Die-cast Surface Adapter (SA) - Non ADA (n/a with 347V)
- **BPC-SA*** Photo Control – Shielded Button Type with Die-cast Surface Adapter (SA) - Non ADA (120V or 277V only)
- **FS** Single Fuse & Holder
- **NAT** Natatorium Environment Option

Accessories
- **SA** Die-Cast Surface Adapter (Non ADA)

† n/a with BPC
* LEL-SA and BPC-SA n/a in conjunction

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MS11_L-041724

MILLENIUM™ SQUARE

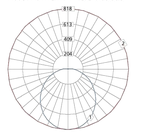
MS11 SERIES – LOW PROFILE HOUSING

PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens @ 25°C (lm)	Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)
MS11FL	10L35K	1,307	102	13	94	130,000
	10L40K	1,307	102	13	94	130,000
	10L50K	1,425	111	13	94	130,000
	20L35K	2,523	106	24	94	130,000
	20L40K	2,523	106	24	94	130,000
	20L50K	2,750	116	24	94	130,000
MS11CL	10L35K	1,050	82	13	94	130,000
	10L40K	1,050	82	13	94	130,000
	10L50K	1,144	89	13	94	130,000
	20L35K	2,026	85	24	94	130,000
	20L40K	2,026	85	24	94	130,000
	20L50K	2,208	93	24	94	130,000
MS11DL	10L35K	1,070	84	13	54	130,000
	10L40K	1,070	84	13	54	130,000
	10L50K	1,167	91	13	54	130,000
	20L35K	2,067	87	24	94	130,000
	20L40K	2,067	87	24	94	130,000
	20L50K	2,253	95	24	94	130,000
MS11EL	10L35K	1,023	80	13	94	130,000
	10L40K	1,023	80	13	94	130,000
	10L50K	1,116	87	13	94	130,000
	20L35K	1,975	83	24	94	130,000
	20L40K	1,975	83	24	94	130,000
	20L50K	2,153	91	24	94	130,000

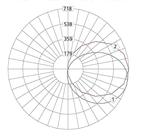
Info subject to change. Visit www.kenall.com for IES files and additional information.

Model: MS11FL-PP-MW-20L40K-DCC-DV



Max Candela = 818 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: MS11EL-PP-MW-20L40K-DCC-DV



Max Candela = 718 Located At Horizontal Angle = 0, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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MS11_L-041724

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

Wet Location Exit Sign

WLTE



Specifications
Length: 12-1/2 (31.8)
Depth: 2-1/2 (6.4)
Height: 8-1/8 (20.6)
Weight: 4.1 lbs (1.9 kg)



All dimensions are inches (centimeters) unless otherwise indicated.

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for wet location areas requiring exit signs for AC only or battery back-up power that are subject to saturation with non-mechanically delivered water.

CONSTRUCTION — White, compact, contemporary design. Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. Universal directional Chevron inserts are easily removed and reinserted. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources. Rugged, heavy-duty, polycarbonate clear housing lens. Housing also available in black or gray. Letters 6" high with 3/4" stroke, with 100 ft. viewing distance rating, based upon UL924 standards.

OPTICS — Low energy consumption — fewer than 5 watts. The typical life of the exit LED lamp is 10 years, based on continuous operation.

ELECTRICAL — Dual voltage input capacity (120/277V).

Battery: (EL Option) – Sealed, maintenance free nickel-cadmium battery delivers 90 minutes rated capacity. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Self-diagnostic testing (SD Option Only) for 30 seconds every 30 days, 30 minutes every 180 days and a 90-minute annual test. Diagnostic evaluation of LED light source, charging and battery condition.

INSTALLATION — Universal mounting canopy for top or end mount. Back mount standard for single face only. Junction box hole pattern for 4" octagon mounting. Flexible conduit entry.

LISTINGS — UL listed. Wet location listed. Standard cold temperature rating -4°F to 122°F (-20°C to 50°C). Meets UL 924, NFPA 101 (current Life Safety Code) and NFPA 70-NEC, Meets all applicable FCC Title 47, Part 15, Subpart B requirements.

WARRANTY — 5-year limited warranty. (Battery is prorated.) This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** WLTE W 1 R EL

WLTE Series	Housing color	Number of faces	Letter color	Operation	Options
WLTE	W White	1 Single face	R Red	(blank) AC only	TP Tamper-resistant screw hardware
	B Black	2 Double face	G Green	EL Nickel-cadmium battery	SD Self-diagnostics[1]
	GY Gray				

Accessories: *Order as separate catalog number.*[2]	
ELA WG1	Wireguard (back mount only)

Notes
1 Only available with EL option.
2 See spec sheet ELA-WG.

WLTE Wet Location Exit Sign

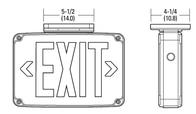
SPECIFICATIONS

ELECTRICAL				
Primary circuit				
Type[1]	**Typical LED life**[2]	**AC volts**	**Input watts**	**Max. amps**
Red LED	10 years	120	2.7	0.03
		277	2.7	0.02
Green LED	10 years	120	3.3	0.03
		277	3.4	0.02

BATTERY				
Ni-Cad				
Voltage	**Shelf life**[3]	**Typical life**[3]	**Maintenance**[4]	**Temperature range**[5]
4.8	3 years	7-9 years	none	-4° – 122°F (-20° – 50°C)

Notes
1 LED lamps operate in normal (AC input) and emergency (DC input) modes.
2 Based on continuous operation. The typical life of the exit LED lamp is 10 years.
3 At 77°F (25°C).
4 All life safety equipment, including emergency lighting for path of egress, must be maintained, serviced and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service or testing could jeopardize the safety of occupants and will void all warranties.
5 Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.

MOUNTING



Specifications
Length: 12-1/2 (31.8)
Depth: 2-1/2 (6.4)
Height: 8-1/8 (20.6)
Weight: 4.1 lbs (1.9 kg)

All dimensions are inches (centimeters) unless otherwise indicated.

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DATE: 06/19/2025

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TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E-8348
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

LIGHT FIXTURE CUT SHEETS PAGE 4

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER: E300D	
DATE: 03/04/25	SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

Drafter: LCM2 Paper Size: 12.3
Last Plot: 3/4/2025 10:44:24 -8:00 EDT
By: LK, DS, IT, ES, KL
WBFS: G:\24\822\ELS\Sheets\24-822E300D.dwg
TIME: 8:54 am
DATE: 16 June 2025
PATHNAME: G:\24\822\ELS\Sheets
DRAWING FILENAME: 24-822E300D
DRAFTER: CM02

PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1	33	15DEG	29	29	15	15	28,641	3,016	91	29,711	3,129	95	30,247	3,185	97	31,317	3,298	100	32,388	3,410	103
		20DEG	44	44	21	21	12,598	2,857	87	13,069	2,964	90	13,305	3,017	91	13,776	3,124	95	14,247	3,231	98
		25DEG	43	43	23	23	12,945	2,904	88	13,429	3,012	91	13,671	3,067	93	14,155	3,175	96	14,639	3,284	100
		30DEG	55	55	30	30	7,910	2,855	87	8,206	2,961	90	8,353	3,015	91	8,649	3,121	95	8,945	3,228	98
		35DEG	56	54	36	33	6,927	2,976	90	7,186	3,088	94	7,316	3,143	95	7,574	3,254	99	7,833	3,366	102
		40DEG	64	63	40	39	5,609	2,963	90	5,818	3,074	93	5,923	3,129	95	6,133	3,240	98	6,343	3,351	102
		45DEG	74	73	44	43	4,401	2,870	87	4,566	2,977	90	4,648	3,030	92	4,813	3,138	95	4,977	3,245	98
		50DEG	86	86	51	51	3,429	2,861	87	3,557	2,968	90	3,621	3,021	92	3,749	3,128	95	3,877	3,235	98
		55DEG	94	94	54	53	2,982	2,863	87	3,093	2,970	90	3,149	3,024	92	3,260	3,131	95	3,372	3,238	98
P2	53	15DEG	29	29	15	15	35,517	3,740	71	36,845	3,880	73	37,508	3,950	75	38,836	4,089	77	40,164	4,229	80
		20DEG	44	44	21	21	15,623	3,543	67	16,207	3,675	69	16,499	3,742	71	17,083	3,874	73	17,667	4,006	76
		25DEG	43	43	23	23	16,053	3,601	68	16,653	3,736	70	16,953	3,803	72	17,553	3,938	74	18,153	4,072	77
		30DEG	55	55	30	30	9,809	3,540	67	10,176	3,672	69	10,359	3,739	71	10,726	3,871	73	11,092	4,003	76
		35DEG	56	54	36	33	8,590	3,691	70	8,911	3,829	72	9,072	3,898	74	9,393	4,036	76	9,714	4,174	79
		40DEG	64	63	40	39	6,955	3,674	69	7,215	3,812	72	7,345	3,880	73	7,605	4,018	76	7,865	4,155	78
		45DEG	74	73	44	43	5,458	3,559	67	5,662	3,692	70	5,764	3,758	71	5,968	3,891	73	6,172	4,024	76
		50DEG	86	86	51	51	4,252	3,548	67	4,411	3,680	69	4,490	3,747	71	4,649	3,879	73	4,808	4,012	76
		55DEG	94	94	54	53	3,697	3,551	67	3,836	3,684	70	3,905	3,750	71	4,043	3,883	73	4,181	4,015	76

CRI SCALING	Multiplier
90CRI	0.83

EXTERNAL CAP	Multiplier
C2	0.70
C3	0.965

LED LIFE: L70@> 60,000 hours

OPERATING TEMPERATURE: -20°C through 45°C (P1 Performance Package)
-20°C through 30°C (P2 Performance Package)

PHOTOMETRIC DIAGRAMS

To see complete photometric reports or download .ies files for this product, visit www.hydrel.com

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CATALOG NUMBER

NOTES

TYPE



Specifications

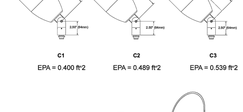
Weight:	10 lbs
H:	9.07" (230mm) w/C1
	11.07" (281mm) w/C2
	14.88" (378mm) w/C3

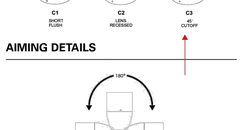
PINE
MVOLT LED

HIGHLIGHTS

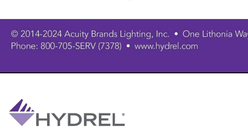
- The Pine Series accent light is suitable for a variety of mounting applications including ground, wall, tree, sign and architectural accents
- Suitable for wet locations
- TRIAC (forward-phase or leading-edge) and ELV (reverse phase or trailing-edge)
- Available in 80CRI and 90CRI
- 4,200lm

DIMENSIONS





AIMING DETAILS



LUMEN PACKAGES

	15DEG	20DEG	25DEG	30DEG	35DEG	40DEG	45DEG	50DEG	55DEG
Delivered Lumens	3,299	3,124	3,175	3121	3254	3240	3138	3128	3131
Watts	33	33	33	33	33	33	33	33	33
LPW	100	95	96	95	99	98	95	95	95
Peak Candela	31,317	13,776	14,155	8649	7574	6133	4813	3749	3260

Note: Information based on 4000K @ P1, 80CRI, 120 Volt with C1 cap and FLC lens

STANDARD DISTRIBUTION



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ORDERING INFORMATION

EXAMPLE: PINE P1 90CRI 27K MVOLT 15DEG WSL KM JBA IHL C2 BL

PINE

Series*	Performance Packages*	CRI*	LED Color*	Voltage*	Distribution*	Lens*	Mounting*	Mounting Accessories *Optional*
PINE	P1	80CRI	27K	MVOLT 120-277VAC	15DEG 15°	FLC Flat Clear	KM Knuckle Mount	**Independent Mounting**
	P2	90CRI	30K		20DEG 20°	WSL Watershed		JBA Aluminum J-Box
			35K[1]		25DEG 25°			ARJB J-Box, Aluminum
			40K		30DEG 30°			WMSA Wall Mount with Splice Access
			50K[1]		35DEG 35°			PM60C Post Mount with Conduit
					40DEG 40°			*Note: Aluminum or Bronze Stake Mounted J-Box (SBA_ or SBB_) is available in 12" or 18" and can be ordered separately, please see below and spec sheet for options.*
					45DEG 45°			
					50DEG 50°			
					55DEG 55°			

Options *Optional*			External Caps*	Finish*	
Internal Louver	**Internal Filters[3]**		C1 Short Flush	**All Material**	**All Material**
IHL Honeycomb Louver	FA Amber		C2 Recessed Lens	BL Black Textured	DNA Natural Aluminum
Internal Accessory	FG Green		C3 45° Angle Cut	BRS Bronze Smooth	NBS[4] Natural Bronze Smooth
L1 Prismatic Lens	FGD Green Dichroic			BRT Bronze Textured	STG Steel Gray
L2 Linear Spread Lens	FLB Light Blue			DBL Black Smooth	VET Verde Textured
L3 Softening Lens	FM Mercury Vapor			DDB Designer Bronze	WH White Textured
	FMB Medium Blue				WHS White Smooth
	FMBD Medium Blue Dichroic				CF Custom Finish
	FR Red				_Z[5] Zinc Undercoat (i.e.BLZ)
	FRD Red Dichroic				RALTBD RAL Paint Finishes
					Note: RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.
					Note: Zinc Undercoat provides corrosion protection for Marine Environment and Natatorium Construction

*Required Fields
Notes:
1. 80CRI Only.
2. Up to 2 options can be specified.
3. Only available with P1.
4. NBS paint uses specialty pigments to give a natural appearance that may vary by fixture.
5. Zinc undercoat for harsh environments

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DATE: 06/19/2025

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MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 8340
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

LIGHT FIXTURE CUT SHEETS PAGE 5

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E300E

DATE: 03/04/25 | SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

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DATE: 16 June 2025
TIME: 8:54 am

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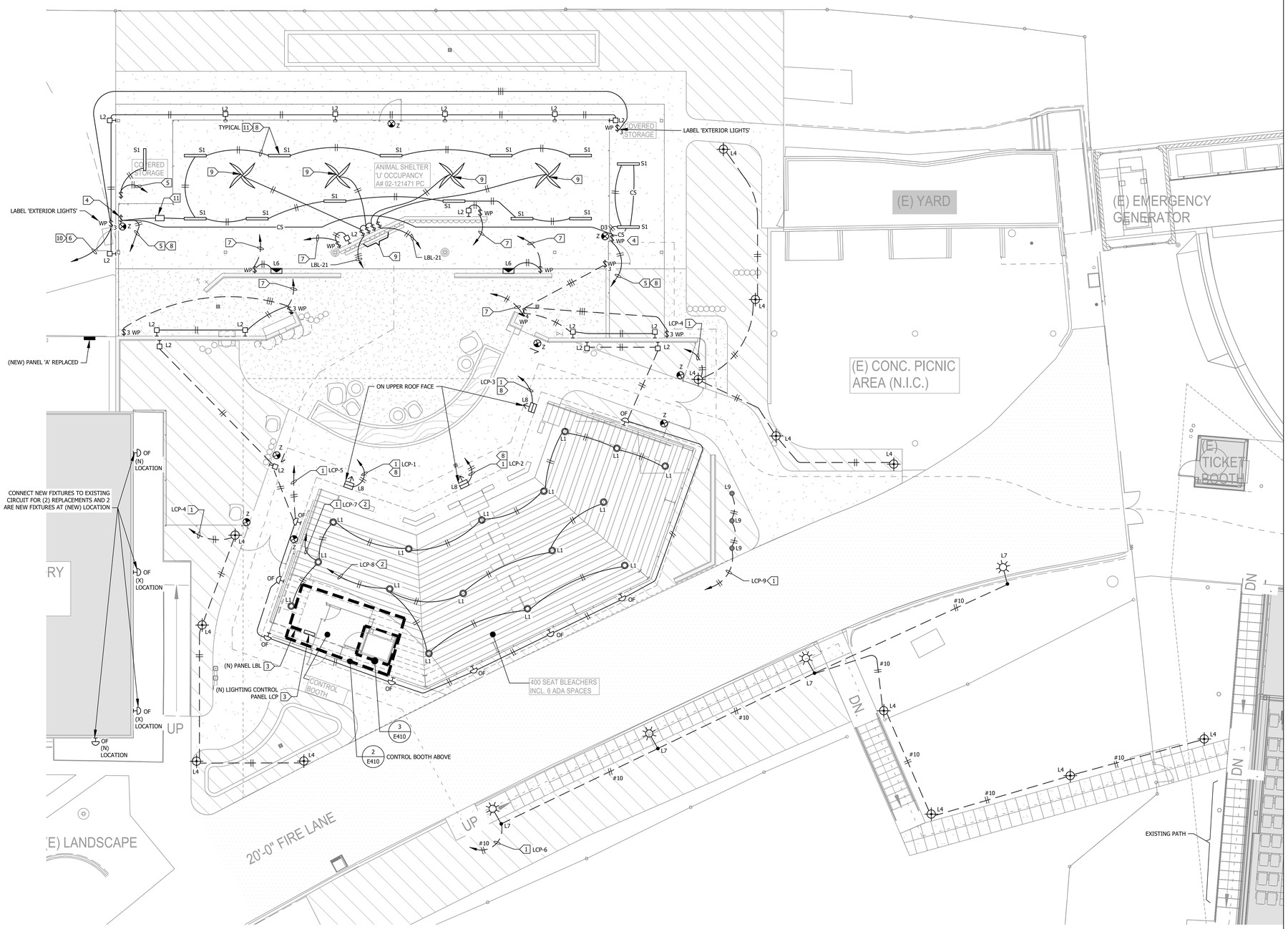

SCALE: 1/8"=1'-0"

0 4' 8' 16'

LIGHTING PLAN

SCALE: 1/8"=1'-0"

1 / E301

N

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1"C UNDERGROUND.
5. ALL SUSPENDED LIGHTING FIXTURES AND AUDIO SPEAKERS SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.

ALL EXIT SIGNS 'Z' SHALL BE FED FROM LBL-34.

SEE ARCHITECTURAL PLANS & LANDSCAPE PLANS FOR LOCATIONS, VERIFY MOUNTING HEIGHTS WITH PROJECT MANAGER

KEY NOTES:

1. HOMERUN TO LIGHTING CONTROL PANEL, CIRCUIT AS NOTED.
2. PROVIDE WITH 0-10 PURPLE GRAY DIMMING TO LCP FOR ENTIRE CIRCUIT.
3. LOCATED AT GRADE UNDER BLEACHERS.
4. 0-10 DIMMING SWITCH, nLIGHT NPODDM.
5. A-1.
6. A-3.
7. A-5.
8. PROVIDE 0-10 DIMMING FOR ALL S1/L8 FIXTURES & 0-10 PURPLE GRAY.
9. FAN PER ARCH PLANS, PROVIDE WP WIRED SPEED CONTROL STATION FOR EACH FAN, ADD CONTROL WIRING PER MFG.
10. CONNECT POWER INPUT TO PHOTOCELL.
11. nLIGHT NPP16D, PROVIDE 0-10 DIMMING & POWER TO ALL S1 FIXTURES.

LCP - LIGHTING CONTROL PANEL		
LCP-1	LEFT FLOOD	LBL-9
LCP-2	CENTER FLOOD	LBL-11
LCP-3	RIGHT FLOOD	LBL-13
LCP-4	WEST & EAST ENTRY	LBL-15
LCP-5	BLEACHER PERIMETER	LBL-17
LCP-6	EGRESS & ROAD WAY LIGHTS	LBL-5
LCP-7	BLEACHER LITES	LBL-1
LCP-8	BLEACHER LITES	LBL-3
LCP-9	SIGN @ ENTRY	LBL-7
LCP-10 TO 16	SPARES	

ALL ITEMS SHOWN ARE NEW UNLESS OTHERWISE NOTED AS (X) OR (E) FOR EXISTING

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TEL: (805) 378 - 1400

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E-8340 Exp. 08/30/2026 STATE OF CALIFORNIA ELECTRICAL

SHEET TITLE:

LIGHTING PLAN

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E301

DATE: 03/04/25 | SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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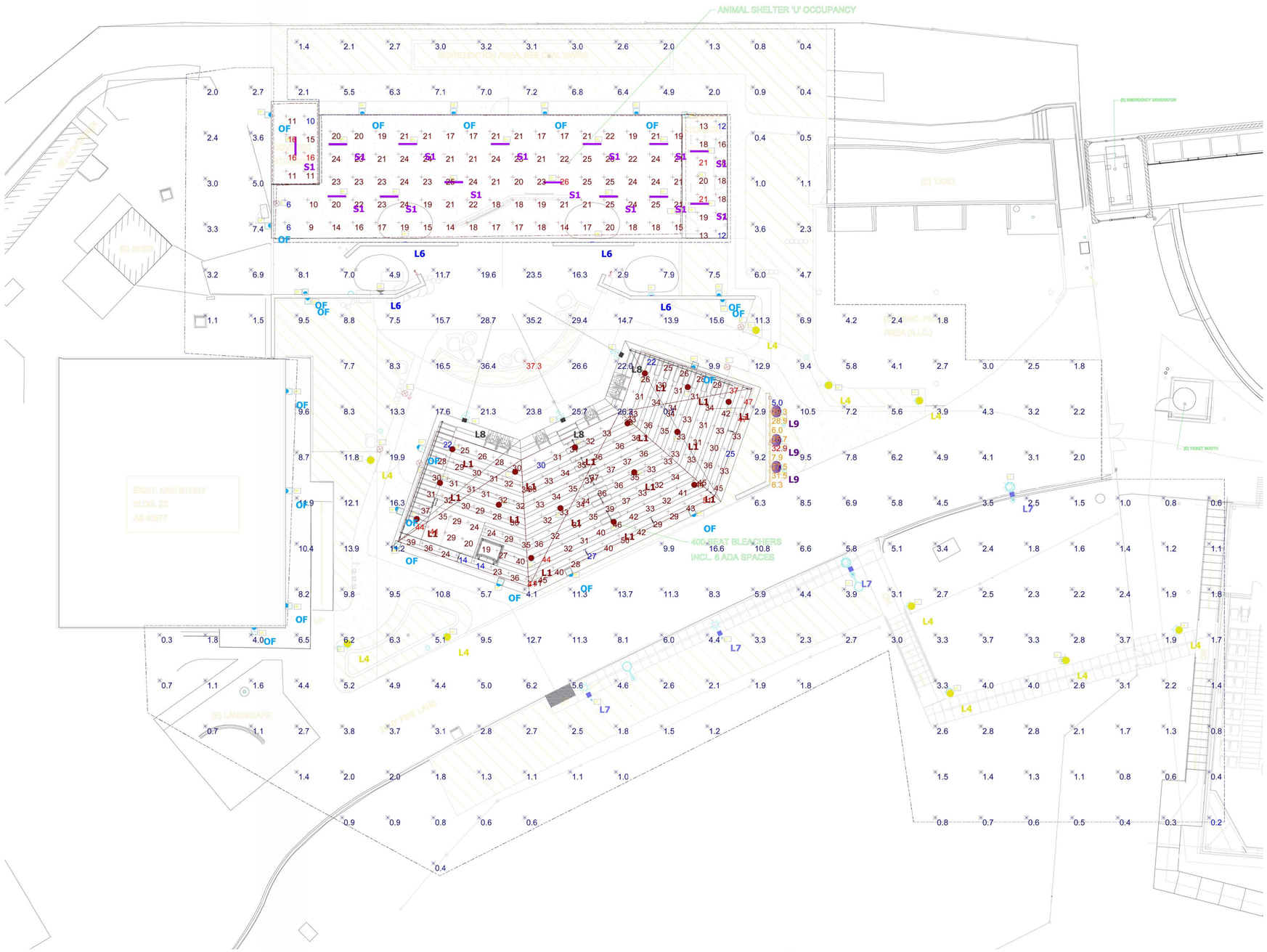
STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG
COVERED STORAGE	+	13 fc	16 fc	10 fc	1.6:1	1.3:1	1.5
COVERED STORAGE 2	+	17 fc	21 fc	12 fc	1.8:1	1.4:1	1.4
SEATING	+	31 fc	44 fc	22 fc	2.0:1	1.4:1	1.3
SEATING	+	29 fc	41 fc	14 fc	2.9:1	2.1:1	1.7
SEATING	+	30 fc	37 fc	22 fc	1.7:1	1.4:1	1.3
SEATING	+	36 fc	47 fc	25 fc	1.9:1	1.4:1	1.4
SEATING	+	37 fc	51 fc	27 fc	1.9:1	1.4:1	1.5
SEATING	+	34 fc	44 fc	30 fc	1.5:1	1.1:1	1.2
SIGN		20.1 fc	32.9 fc	5.0 fc	6.6:1	4.0:1	-1.0
SITE LIGHTING	✕	5.9 fc	37.3 fc	0.2 fc	186.5:1	29.5:1	38.0
COVERED STAGE	+	20 fc	26 fc	6 fc	4.3:1	3.3:1	1.9

LIGHTING SCHEDULE

Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lamp Output	LLF	Input Power	Distribution
	L4	10	Lithonia Lighting	RADPT P2 40K PATH	RADEAN Post-Top with P2 4000K Pathway distribution	LED 4000K 80CRI	1	4009	0.92	38.01	TYPE III, SHORT, BUG RATING: B4 - U2 - G4
	L7	4	Lithonia Lighting	DSX0 LED P2 40K 80CRI T2M	D-Series Size 0 Area Luminaire P2 Performance Package 4000K CCT 80 CRI Type 2 Medium	LED 4000K 80CRI	1	5606	0.92	45.14	TYPE III, MEDIUM, BUG RATING: B1 - U0 - G2
	OF	21	Lithonia Lighting	DSXW1 LED 20C 350 40K T3M MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T3M OPTIC, 4000K, @ 350mA.	LED 4000K 80CRI	1	2965	0.92	23.3	TYPE IV, MEDIUM, BUG RATING: B1 - U0 - G1
	S1	14	Lithonia Lighting	CSVT L48 5000LM MVOLT 3500K 80CRI	Contractor Select LED Vapor Tite, 48", 5000LM, 120-277V,3500K, 80 CRI	LED 3500K 80CRI	1	4829	0.92	41.99	DIRECT, SC-0=1.27, SC-90=1.31
	S1E	0	Lithonia Lighting	CSVT L48 5000LM MVOLT 3500K 80CRI	Contractor Select LED Vapor Tite, 48", 5000LM, 120-277V,3500K, 80 CRI	LED 3500K 80CRI	1	4829	0.92	41.99	DIRECT, SC-0=1.27, SC-90=1.31
	L6	4	BEGA-US	33054K4 XXXX	RECESSED LED STEPLIGHT	LED 4000K 80CRI	1	342	0.92	8	
	L9	3	BEGA-US	77 023K4 XXXX	INGRADE WALL WASH	LED 4000K 80CRI	1	769	0.92	13.32	
	L8	3	BEGA	84553 RGBW	FLOOD LIGHT RGBW	LED 176W	1	11874	0.92	197	
	L1	16	Lithonia Lighting	CPRB ALO13 (12000LM) UVOLT SWW9 (40K) 80CRI DWH	Compact Pro LED Round High bay, ALO13 (12,000 lumens), 120-347, Switchable (40 K), 80CRI, Gloss white		1	12489	0.92	83.08	DIRECT, SC-0=1.29, SC-90=1.27



PHOTOMETRIC PLAN 1
SCALE: NTS - E302

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TEL: (805) 378 - 1400

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH M. LUCCI
No. E-8548
Exp. 08/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

PHOTOMETRIC PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER: **E302**	
DATE: 03/04/25	SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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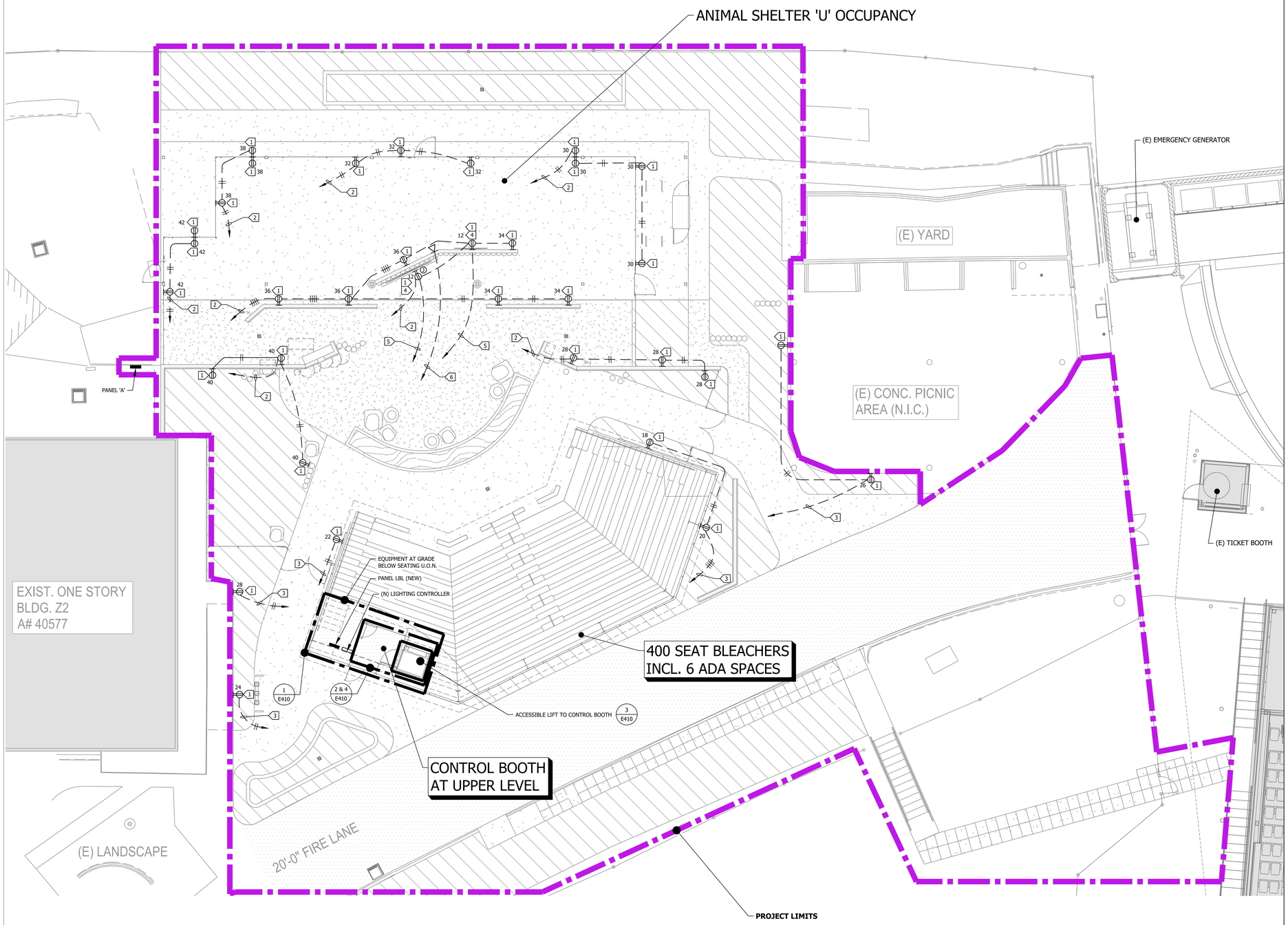

SCALE: 1/8"=1'-0"
0 4' 8' 16'

POWER PLAN 1
SCALE: 1/8"=1'-0" GRADE LEVEL - E400 -

N

SHEET NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U.O.N., 1"C MINIMUM UNDERGROUND.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

1"C MINIMUM UNDERGROUND.

KEY NOTES:

1. WP GFCI RECEPTACLE.
2. HOME RUN (1"C) TO PANEL A, CIRCUITS AS NOTED.
3. HOME RUN (1"C) TO PANEL LBL CIRCUITS AS NOTED.
4. POWER FOR VIDEO MONITORS.
5. 1-1/4"C TO VIDEO RACK.
6. 1-1/4"C - (2) CAT6E GEL FILLED TO IDF.

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DATE: 06/19/2025

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH M. LUCCI
No. E-8548
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

POWER PLAN

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER: **E400**
DATE: 03/04/25 | SHEET: ___ OF ___

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Drafter: CM02 Paper Size: 12.5
Date: 16 June 2025 Time: 8:55 am
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XREF'd: G:\24\822\E\Xref\Roof Plan.dwg
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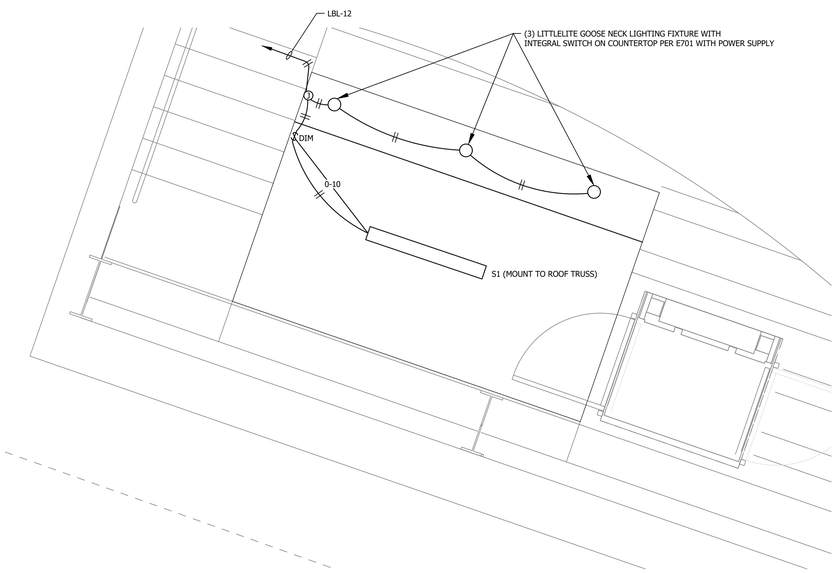
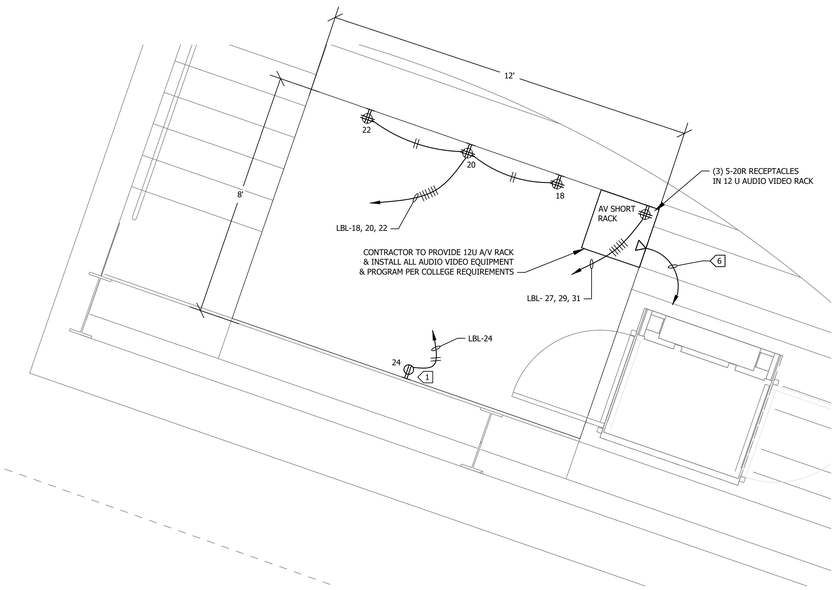


1/2" - 1'-0"
0 1' 2' 4'

ENLARGED CONTROL BOOTH LIGHTING PLAN 4

SCALE: 1/2"=1'-0" UPPER LEVEL - E410 -



1/2" - 1'-0"
0 1' 2' 4'

ENLARGED CONTROL BOOTH POWER PLAN 2

SCALE: 1/2"=1'-0" UPPER LEVEL - E410 -

SHEET NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U.O.N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

1. GFCI RECEPTACLE.
2. (1) x 1.25"C - 18 #10 & 1 #8 GND, LENGTH LESS THAN 24" CKTS LBL - 1, 3, 5, 7, 9, 11, 13, 15, 17 WITH DEDICATED NEUTRALS, AND 1.25"C SPARE.
3. CONNECT VIA 1.25"C TO FRESCO CONTROLLER IN BOOTH WITH (2) CAT6A. PROVIDE 1"C TO IDF IN HOFFMAN CABINET.
4. PROVIDE (2) 1-1/4"C TO ADMIN IDF. PROVIDE 4 SM OPTICAL OM3 FIBER TO ADMIN & INSTALL 6-PORT MEDIA CONVERTER IN ONE CONDUIT WITH THE OTHER SPARE.
5. PROVIDE 4 SM OSP FIBER FROM THE FACP TO THE MAIN EATM FACILITY COM ROOM WITH 20 FOOT LOOP FOR FUTURE CONNECTION AND ROUTE THIS 4 STRAND SM OPTICAL FIBER TO BUILDING LLR MASTER FA SYSTEM (FIREWORKS)-SEE KEY MAP.
6. 1-1/4"C - 2 CAT6E TO IDF.



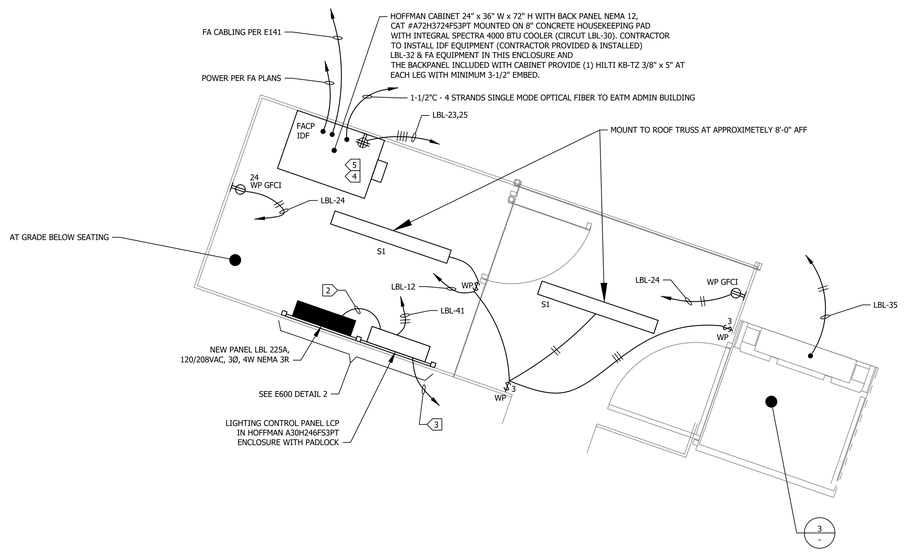
1/2" - 1'-0"
0 1' 2' 4'

ACCESIBLE LIFT 3

SCALE: NONE - E410 -

PROVIDE 36" CLEAR IN FRONT OF ELECTRICAL EQUIPMENT PER NEC-ARTICLE 110-26 & 6'-8" HIGH

DO NOT ENTER TOP OF HOFFMAN CABINET WITH CONDUITS

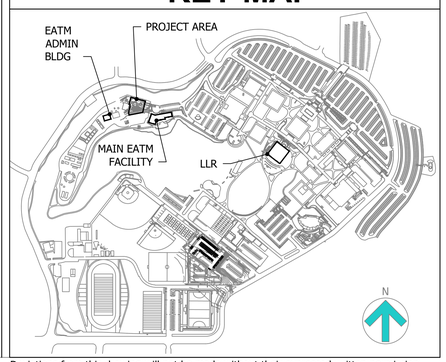


1/2" - 1'-0"
0 1' 2' 4'

ELECTRICAL AREA UNDER BLEACHERS 1

SCALE: 1/2"=1'-0" GROUND LEVEL - E410 -

KEY MAP



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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — KENNETH W. LUCCI — No. E-8340 — Exp. 09/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

SHEET TITLE:

ENLARGED CONTROL BOOTH PLAN

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:

SHEET NUMBER:

E410

DATE: 03/04/25 SHEET: ___ OF ___

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PATHNAME: G:\24\822\ELS\Sheets
DRAWING FILENAME: 24-822E410
DRAFTER: CM02
DATE: 16 June 2025 TIME: 8:55 am
Drafter.CM02 - Revit Ver: 23.3
Last Print Date: 6/16/2025 8:55:04 AM
Current Time: 8:55:04 AM
Model Path: G:\24\822\ELS\Sheets\24-822E410.rvt
Central Model Path: C:\Users\CM02\Documents\24-822E410.rvt
WARNING: Detached and Worksharing Enabled
Export Layer Overrides: C:\Users\CM02\Documents\Revit Export Layer Overrides.txt

DEVICE LEGEND (SEE BOOK CSFM & DESCRIPTION)

SYMBOL	MODEL	MAKE	DESCRIPTION	CSFM #	MOUNTING
	4CPU	EST	MAIN CPU EST4	7170-1657:0508	.
	4-NET-TP	EST	TWISTED PAIR SFP NETWORK CONTROLLER	7170-1657:0508	.
	3-SSDC2	EST	SIGNATURE DUAL DRIVER CONTROLLER (LRM)	7170-1657:0508	.
	4-FWAC1	EST	FIREWALL IP CONNECTION	7170-1657:0508	.
	4-LCDLE	EST	DISPLAY,MAIN LCD MODULE	7170-1657:0508	.
	4-24LL2S	EST	CNTRL DISPLAY,24 LED,12 SWITCH	7170-1657:0508	.
	4-FIL	EST	BLANK FILLER	7170-1657:0508	.
FACP	4-AUDTELS	EST	AUDIO IO AND TELEPHONE RISER SOURCE MODULE	7170-1657:0508	.
	4-MIC	EST	PAGING MICROPHONE	7170-1657:0508	.
	3-ZA40A	EDWARDS	40 WATT ZONED AMPLIFIER, CLASS B/A, 25 OR 70VRMS	7170-1657:0508	.
	3-CAB14B	EST	BACK BOX /W 14 LRM SPACE W/O DOOR	7170-1657:0508	.
	BCA-SSU005501	EST	BATTERY CABINET - SPACE AGE MFG.	7300-0553:0111	3-RCC-Z1R
	4-PPS/M	EST	PRIMARY POWER SUPPLY 120V	7300-1657-0519	.
	12V65A	EST	65 AH BATTERY	N/A	.
XW SP Xcd	WG4WF-SVMC	EDWARDS	-SPEAKER/STROBE 15 CANDELA	7320-1657:0289	-4"SQUARE BOX WITH SINGLE GANG RING
	WG4WF-SVMC	EDWARDS	-SPEAKER/STROBE 29 CANDELA	7320-1657:0289	-4"SQUARE BOX WITH SINGLE GANG RING
	74347U	EDWARDS	SURFACE MT BX, 4" SQURE, OUTDOOR RTD		WEATHER PROOF BOX
	WG4WF-SVMC	EDWARDS	-SPEAKER/STROBE 70 CANDELA	7320-1657:0289	-4"SQUARE BOX WITH SINGLE GANG RING
	WG4WF-SVMC	EDWARDS	-SPEAKER/STROBE 87 CANDELA	7320-1657:0289	-4"SQUARE BOX WITH SINGLE GANG RING
1W SP WP	SPWK	SYSTEM SENSOR	-SPEAKER (EXTERIOR WITH W/P BACKBOX)	7320-1653:0201	WEATHER PROOF BOX
SV C	GCS	EDWARDS	-SPEAKER STROBE CEILING 15, 29, 70 CANDELA	7320-1657:0516	-4"SQUARE BOX WITH SINGLE GANG RING
AOM	SIGA-CR	EST	-ADDRESSABLE CONTROL RELAY	7300-1657:0121	-SINGLE GANG RING
	PAM-1	AIRPRODUCTS	-MULTI VOLTAGE RELAY	7300-1004:0101	-SINGLE GANG RING
H	SIGA-HRD	EDWARDS	-SIGA HEAT DETECTOR (HRD)	7270-1657:0333	-4" SQ. BOX WITH 3" "O" RING
J	N/A	BY OTHERS	-JUNCTION BOX	N/A	
CT	SIGA-CT1	EST	-ADDRESSABLE INPUT TRANSPONDER	7300-1657:0121	-4" SQUARE BOX WITH SINGLE GANG RING

SEQUENCE OF OPERATION

DEVICE \ ACTION	THROUGHOUT BUILDING SOUND GENERAL ALARM	SOUND TROUBLE BUZZER	ANNUNCIATE AT PANEL	TRANSMIT TROUBLE SIGNAL FOR ALL APPLICABLE COMPONENTS TO SUPERVISING STATION	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	ACTIVE REMOTE POWER SUPPLY PANEL	SPEAKERS & VISUAL ALARMS FROM F.A. SYSTEM
INDICATING CIRCUIT FAILURE		●	●				
INITIATING CIRCUIT FAILURE		●	●				
AC / BATTERY FAILURE		●	●		●		
F.A. SYSTEM LOW BATTERY		●	●				
HEAT DETECTORS	●		●		●	●	●
ISOLATOR LINE TROUBLE		●	●				
EARTH GROUND FAULT		●		●			

FIRE ALARM ADDRESSABLE DEVICE IDENTIFICATION KEY

d-15 (IDENTIFICATION MATCHES ACTUAL LED DISPLAY IN "FACP" OR "ANN")

- 1 OR 2 DIGIT NUMBER OF ADDRESSABLE DEVICE
- "d" DESIGNATED ADDRESSABLE "DEVICE"

FIRE ALARM N.A.C. DEVICE NUMBERING KEY

S OR V - X

- NUMBER OF DEVICE IN CIRCUIT.
- NOTIFICATION APPLIANCE CIRCUIT TYPE (S=SPEAKER, V=VISUAL/STROBE)

MONITOR MODULES SHALL BE INSTALLED WITHIN 36" OF MONITORED DEVICE.

SCOPE OF WORK

PROVIDE A NEW ADDRESSABLE FIRE ALARM SYSTEM FOR BUILDING, AUTOMATIC TYPE FOR COMPLETE BUILDING INCLUDING VOICE EVACUATION & CONNECT TO CAMPUS WIDE SYSTEM.

FIRE ALARM ZONE SCHEDULE

THE NEW FIRE ALARM SYSTEM IS A EST4 EDWARD ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

F.A. RACEWAY

MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER AND SHALL NOT EXCEED 40% FILL. ALL FA CONDUITS SHALL BE RED IN COLOR

PROJECT NOTES

GENERAL NOTES

1. ALL WIRE SHALL BE IN CONDUIT PER CFC ARTICLE 907.
2. MANUAL PULL STATIONS TO BE MOUNTED AT 48 IN. ABOVE FLOOR SURFACE TO THE CENTER OF THE STATION.
3. MOUNT AUDIO VISUAL 80 IN. ABOVE FINISHED FLOOR TO THE BOTTOM OF THE LIGHT OR 6" FROM BELOW CEILING WHICH EVER IS LOWEST. PER NFPA 72 CHAPTER 18, CFC 907.1.2.
4. MAINTAIN CFC WIRING COLOR CODES.
5. ALL WIRING TO BE AS CALLED FOR IN N.E.C. ARTICLE 760 & CFC 907.
6. IDENTIFY THE FIRE ALARM CIRCUIT AT THE ELECTRICAL PANEL IN RED, PROVIDE A BREAKER LOCK-ON DEVICE. CFC 907.6
7. DEVICE TYPES AND LOCATIONS ARE SHOWN AS CALLED FOR ON THE BID DOCUMENTS.

CODE ANALYSIS

ANIMAL SHELTER - U OCCUPANCY CONSTRUCTION - TYPE - V - U - NS
SF=3,000SF

BLEACHERS - 15 OCCUPANCY TYPE - V - AS - NS CONSTRUCTION 471 OCCUPANTS
2,700SF

ALL STRUCTURES ARE SEPARATED A MINIMUM OF 20 FEET

NON-SPRINKLERED BUILDING.

ABBREVIATIONS

BP	BACKFLOW PREVENTER	FPL	FIRE-POWER LIMITED
CSFD	COMBINATION SMOKE / FIRE DAMPER	FPLP	FIRE-POWER LIMITED PLENUM
EOL	END-OF-LINE RESISTOR	FPLR	FIRE-POWER LIMITED RISER
ER	EXISTING DEVICE TO BE REMOVED	TP	TWISTED PAIR
ERN	EXISTING DEVICE TO BE REMOVED AND REPLACED WITH NEW	TSP	TWISTED SHIELDED PAIR
ERR	EXISTING DEVICE TO BE REMOVED AND REINSTALLED	THHN	"T" THERMOPLASTIC INSULATED CABLE "HH" MEANS THAT THE WIRE IS HEAT RESISTANT AND CAN WITHSTAND A HIGHER TEMPERATURE (UP TO 194° F) "N" NYLON COATING THAT COVERS WIRE INSULATION
EX	EXISTING DEVICE TO REMAIN		
FACP	FIRE ALARM CONTROL PANEL		
FATC	FIRE ALARM TERMINAL CABINET	THWN	"T" THERMOPLASTIC INSULATED CABLE "H" MEANS WIRE IS HEAT RESISTANT "W" MEANS WIRE IS APPROVED FOR DAMP/WET LOCATIONS "N" NYLON COATING THAT COVERS WIRE INSULATION
LRM	LOCAL RAIL MODULE		
N	NEW DEVICE		
PIV	POST INDICATOR VALVE		
RR	EXISTING DEVICE TO BE REMOVED AND RELOCATED	WP	WEATHERPROOF DEVICE

WIRE LEGEND

CALLOUT	USAGE	TYPE
A	ADDRESSABLE CIRCUIT	2#18 FPLR (UNSHIELDED) TWISTED-PAIR, SOLID
S	SPEAKER CIRCUIT	2#16 FPLR (UNSHIELDED) TWISTED-PAIR, SOLID
V	STROBE CIRCUIT	2#14 THHN (UNSHIELDED) STRANDED

USE TYPE AQ (AQUASEAL) FOR ALL UG/WET LOCATION CONDUITS

CONDUIT WIRE FILL CHART

CONDUIT SIZE INCHES	MAXIMUM CONDUCTORS #18 AWG	#16 AWG	#14 AWG
1/2"	19	15	13
3/4"	34	26	24
1"	55	43	39
1 1/4"	97	76	69
1 1/2"	132	104	94
2"	216	169	154

* RECOMMENDATION FOR CONDUIT SIZE BY C.E.C

BOX SIZE VS. NUMBER OF WIRES PER C.E.C.

J-BOXES	#14	#12
3-1/4X1-1/2 OCTAGON	5	4
3-1/2X1-1/2 OCTAGON	5	5
4X1-1/2 OCTAGON	8	7
4X1-1/8 OCTAGON	11	10
4X4X1-1/2	11	10
4X4X2-1/8	15	14
4X2-1/8X1-1/2	3	3
4X2-1/8X1-7/8	5	4
4X2-1/2X2-1/2	5	5

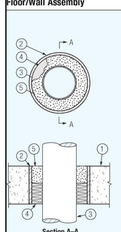
MAXIMUM NUMBER OF CONDUCTORS IN ELECTRICAL METALLIC TUBING

TYPE LETTERS	CONDUCTOR SIZE AWG/KCMIL	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	14	22	35	61	84	138	241	364	476	608
	12	16	26	45	61	101	176	266	347	443
THWN	10	10	16	28	38	63	111	167	219	279
	8	6	9	16	16	36	64	96	126	161

PERCENT AREA OF CONDUIT			PERCENT REDUCTION PER - NUMBER 18AWG TWISTED SHIELDED PAIRS							
TRADE SIZE INCHES	INTERNAL DIAMETER INCHES	TOTAL AREA- 100% SQ. IN.	OVER 2 WIRES 40% SQ. IN.	1	2	3	4	5	6	7	8
3/4	0.824	0.533	0.213	19%	38%	57%	76%	95%	X	X	X
1	1.049	0.864	0.346	12%	24%	36%	48%	6%	72%	84%	96%
1 1/4	1.380	1.496	0.598	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.036	0.814	5%	10%	15%	20%	25%	30%	35%	40%
2	2.067	3.356	1.342	3%	3%	9%	12%	15%	18%	21%	24%

Caulk-Type Materials

Fire Tests	UL System	Test Criteria	Description
Floor/Wall Assembly	C-AJ-1020[a]		



F-Rating 3 Hr.

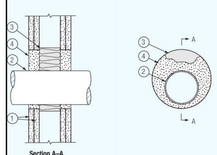
T-Rating 1 Hr.

1. Concrete floor or wall assembly, minimum 4-1/2" thickness floor/minimum 6-1/2" wall.
2. Steel sleeve (optional).
3. Metallic pipe:
   - A Steel pipe: 6" diameter (or smaller) Schedule 10 (or heavier) steel pipe.
   - B Conduit: 4" diameter (or smaller) electrical metallic tubing (EMT) or 6" diameter rigid steel conduit.
4. Forming material: Mineral wool insulation[a] (minimum 4.0 pcf) firmly packed into the opening as a permanent form; see table below for minimum required thickness.
5. Type AS or Type SS: Minimum thickness of sealant as specified in the table below, applied within the opening, flush with the top surface of the floor or both surfaces of the wall.

Maximum Pipe Diameter (IN.)	Maximum EMT	Annular Space (in.)	Forming Material Thickness (in.)	Minimum Sealant Thickness (in.)	F Rating (hours)	T Rating (hours)
1-1/2	—	3/8 to 2-1/8	2-1/2	2	3	1
6	4	3/8 to 3/4	3-1/2	1	3	0
6	4	3/8 to 1	2-1/2	2	3	0

Mortar-Type Materials

Fire Tests	UL System	Test Criteria	Description
Wall Assembly	W-L-1027[a]		



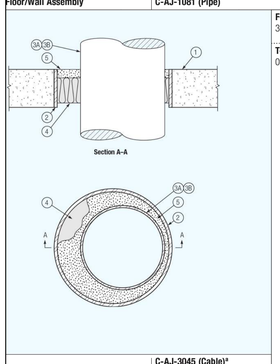
F-Rating 2 Hr.

T-Rating 0 Hr.

1. Gypsum wallboard/stud wall assembly.
2. Metallic pipe:
   - A Conduit: 4" diameter (or smaller) electrical metallic tubing (EMT) or steel conduit. A minimum 1/4" to maximum 2-1/4" annular space between pipe and periphery of opening is required.
   - B Copper tubing: 6" diameter (or smaller) Type M (or heavier) copper tubing. A minimum 1" to maximum 1-5/8" annular space between pipe and periphery of opening is required.
   - C Steel pipe: 4" diameter (or smaller) schedule 10 (or heavier) steel pipe. A minimum 1/4" to maximum 2-1/4" annular space between pipe and periphery of opening is required.
   - D Steel pipe: 6" diameter (or smaller) schedule 10 (or heavier) steel pipe. A minimum 1" to maximum 1-5/8" annular space between pipe and periphery of opening is required.
3. Forming material: Minimum 2-1/2" thick mineral wool insulation[a] (minimum 3.5 pcf) firmly packed into the opening as a permanent form.
4. Type FC: Minimum 1" thick compound applied within opening, flush with both surfaces of the wall.

Mortar-Type Materials

Fire Tests	UL System	Test Criteria	Description
Floor/Wall Assembly	C-AJ-1081 (Pipe)		

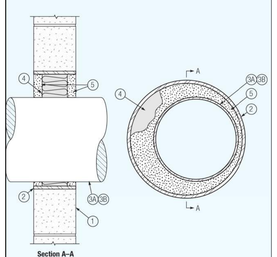


F-Rating 3 Hr.

T-Rating 0 Hr.

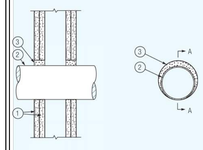
1. Concrete floor or wall assembly, minimum 4-1/2" thickness floor, minimum 6-1/2" wall. The annular space range shall be minimum 1/4" to maximum 4" for 10" diameter steel pipe, 4" or 6" diameter conduit, 4" diameter copper tubing, or cables. The annular space range shall be minimum 1/4" to maximum 1-15/16" for 24" diameter steel pipe, and minimum 1/4" to maximum 1-13/16" for 6" diameter copper tubing or copper pipe.
2. Steel sleeve (optional).
3. Metallic pipe:
   - A Steel pipe: 24" diameter (or smaller) schedule 10 (or heavier) steel pipe.
   - B Conduit: 4" diameter (or smaller) electrical metallic tubing (EMT) or 6" steel conduit.
   - C Copper tubing: 6" diameter (or smaller) Type M (or heavier) copper tubing.
   - D Cables: 100-pair 24 AWG with PVC insulation minimum 10 to 40% maximum fill.
4. Forming material: Minimum 3" of mineral wool insulation[a] (minimum 3.5 pcf) firmly packed into the opening as a permanent form.
5. Type FC or RFC: Minimum 1" thick compound applied within the opening, flush with the top surface of the floor or both surfaces of the wall.

Fire Tests	UL System	Test Criteria	Description
	C-AJ-3045 (Cable)[a]		



Mortar-Type Materials

Fire Tests	UL System	Test Criteria	Description
Wall Assembly	W-L-1063[a]		



F-Rating 2 Hr.

T-Rating 0 Hr.

1. Gypsum wallboard/stud wall assembly. The annular space range shall be minimum 1/4" to maximum 1-5/8".
2. Metallic pipe:
   - A Steel pipe: 3-1/2" diameter (or smaller) Schedule 10 (or heavier) steel pipe.
   - B Conduit: 3-1/2" diameter (or smaller) electrical metallic tubing (EMT) or steel conduit.
   - C Copper tubing: 4" diameter (or smaller) Type M (or heavier) copper tubing.
3. Type FC or RFC: Minimum 1" thick compound applied within opening, flush with both surfaces of the wall.

REQUIRED NOTES

THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS. INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA DEPT. OF THE STATE ARCHITECT'S FIRE MARSHAL.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE BY INSTALLATION TECHNICIAN PER CFC 901.2.1, PROVIDE STATEMENT OF COMPLIATION WHEN WITNESSING FOR THE FINAL TEST BY IOR & LOCAL AHJ. IN THE PRESENCE OF THE LOCAL AHJ IOR SSS FIELD ENGINEER, OWNER AND ENGINEER OF RECORD.

A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.

ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND RETAINED ON SITE/PREMISES FOR 5 YEARS PER CFC 901.6.2 / TITLE 19 USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE DSA FLS.

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE, OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY AND DSA VIA THE PROJECT INSPECTOR.

GENERAL NOTES

1. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH C.E.C. ARTICLE 760, POWER LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS.
2. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST WITHIN THE SCOPE OF WORK AS SHOWN ON THIS SUBMITAL PACKAGE SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL.
3. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE FIRE MARSHAL.
4. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
5. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
6. FIRE ALARM DEVICES SHALL BE INSTALLED PER N.F.P.A. 72.
7. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION.
8. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT AT EACH DEVICE.
9. ALL WIRING TO BE INSTALLED IN CONDUIT. CONDUIT SIZE TO BE 3/4" MINIMUM UNLESS OTHERWISE NOTED.
10. ALL CONDUCTORS ARE COPPER.
11. SYSTEM IS POWER LIMITED.
12. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
13. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURERS SPECIFICATIONS.
14. TO ENSURE THAT AUDIBLE PUBLIC MODE SIGNALS ARE CLEARLY HEARD, UNLESS OTHERWISE PERMITTED BY 18.4.3.2 THROUGH 18.4.3.5, THEY SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FT (1.5 m) ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (dBA) PER NFPA 72 SECTION 18.4.3.1.
15. AREAS HAVING MORE THAN TWO STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED 2022 NFPA 72 18.5.5.4.2
16. SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
17. WALL-MOUNTED STROBES SHALL HAVE THEIR BOTTOMS NOT LESS THAN 80 INCHES ABOVE FINISHED FLOOR AND NO GREATER THAN 96 INCHES ABOVE FINISHED FLOOR.
18. THE RECORD OF COMPLETION DOCUMENTATION SHALL BE COMPLETED BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE CONCLUSION OF THE JOB. THE RECORD OF COMPLETION DOCUMENTATION SHALL BE PERMITTED TO BE PART OF THE WRITTEN STATEMENT REQUIRED IN 7.5.2 AND PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 7.5.8. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE DOCUMENTATION FOR WHICH THAT CONTRACTOR HAS RESPONSIBILITY. 2016 NFPA 72 7.5.6.2.
19. FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
20. POWER FOR THE FIRE ALARM CONTROL PANEL IS TO BE PROVIDED BY A DEDICATED CIRCUIT BREAKER. INDICATE LOCATION OF THIS BREAKER AT THE FACP. BREAKER TO BE RED AND LABELED "FIRE ALARM CONTROL DISCONNECT".
21. THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AS TO ITS PURPOSE IN ACCORDANCE WITH THE FOLLOWING: (1) "FIRE ALARM" FOR FIRE ALARM SYSTEMS; (2) "EMERGENCY COMMUNICATIONS" FOR EMERGENCY COMMUNICATIONS SYSTEMS; (3) "FIRE ALARM/ECS" FOR COMBINATION FIRE ALARM AND EMERGENCY COMMUNICATIONS SYSTEMS. FOR FIRE ALARM AND/OR SIGNALING SYSTEMS, THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING. THE RED MARKING SHALL NOT DAMAGE THE OVERCURRENT PROTECTIVE DEVICES OR OBSCURE THE MANUFACTURER'S MARKINGS. THE CIRCUIT DISCONNECTING MEANS SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. 2022 NFPA 72 10.6.5.1-5.

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
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CONSULTANT

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8340 Exp. 09/30/2026 ELECTRICAL STATE OF CALIFORNIA

SHEET TITLE:

NEW WORK - FIRE ALARM GENERAL NOTES AND DEVICES LEGEND

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER:	

E500

DATE: 03/04/25	SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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DATE: 16 June 2025
TIME: 8:55 am
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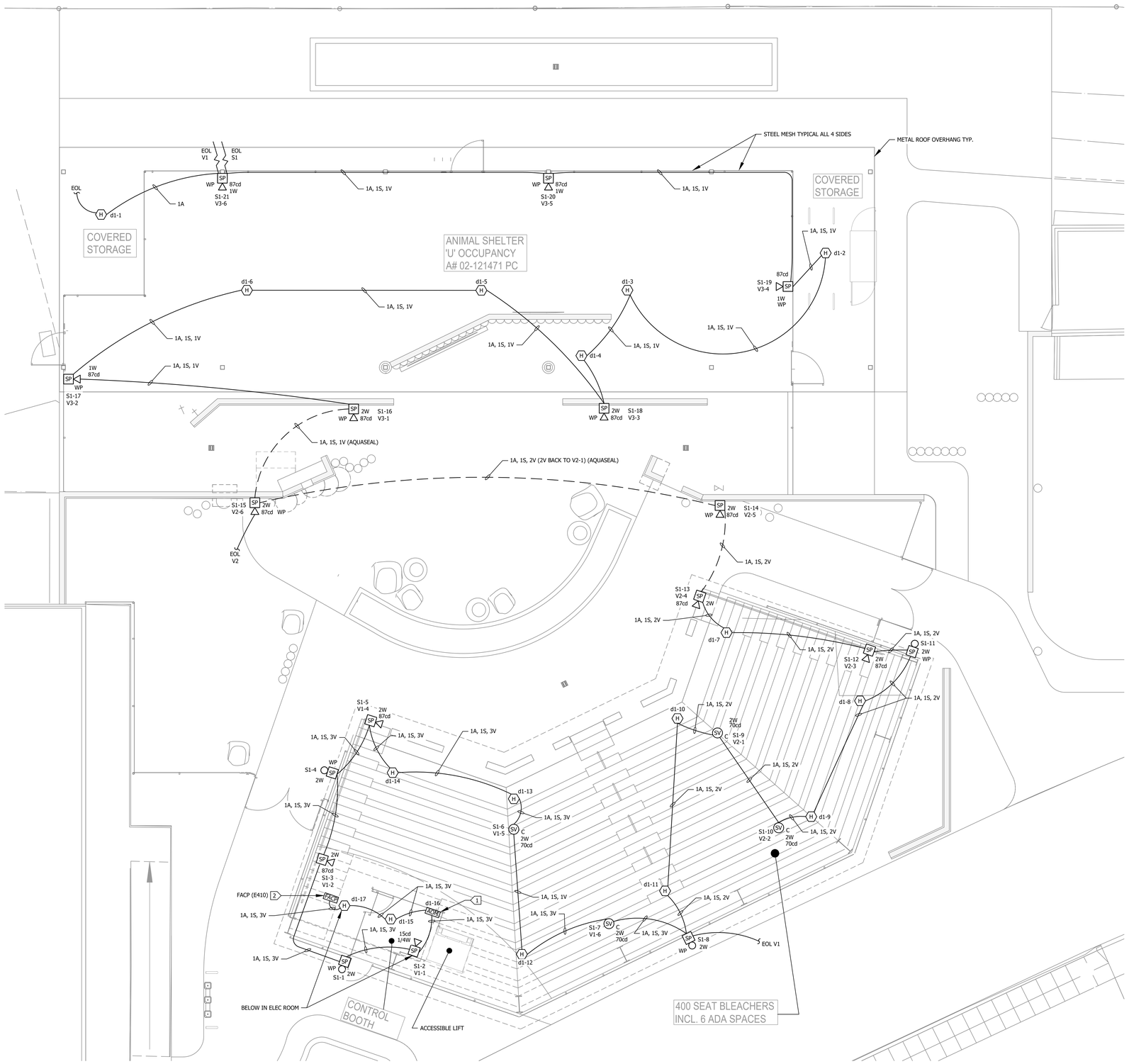


3/16" = 1'-0"

0 1' 4' 8' 12'

FIRE ALARM PLAN 1
SCALE: 3/16"=1'-0" E501

N

SHEET NOTES:

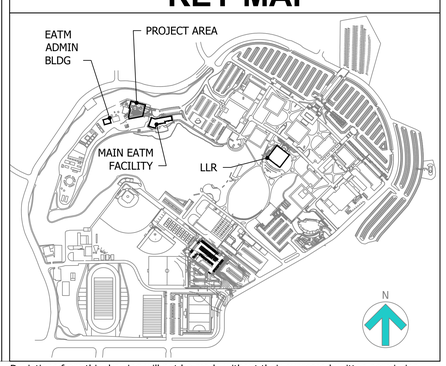
1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.
7. FIRE ALARM CABLING SHALL BE RED IN COLOR.

SHEET NOTES:

1. CONNECT AOM TO SHUT DOWN AV SYSTEM DURING FA CONDITION.
2. INSTALL IN ENCLOSURE PER E500/E410.

ALL CABLING (FA) BELOW GRADE SHALL BE TYPE AQ AQUASEAL CABLING OR THWN/THHN RATED FOR WET LOCATIONS.

KEY MAP



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DATE: 06/19/2025

MOORPARK COLLEGE

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PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 9346
Exp. 08/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

FIRE ALARM PLAN

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E501

DATE: 03/04/25 | SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

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Drafter:CM02 Paper Size: 12.0
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Plotted: 2/27/2025 02:19:03 PM By: Christopher Mendoza
Drafter: CM02 - Date: FEB 27, 2025 - Time: 2:19 PM

VOLTAGE DROP CALCULATIONS - SPEAKER APPLIANCE CIRCUITS (70V CONDUITS)

PANEL ID	CKT #	1/4 WATT 0.007 QTY.	AMP	1/2 WATT 0.034 QTY.	AMP	1 WATT 0.025 QTY.	AMP	2 WATT 0.045 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	(I) TOTAL CURRENT	x	LENGTH FT.	x	21.6	÷	CIR MILS 16awg	=	VOLTS DROPPED	÷	70(V)	x	100	% VOLTAGE DROP
AMP	S1	1	0.007		0.000	6	0.150	14	0.630		0.000		0.000		0.000		0.000		0.000	0.787	x	560	x	21.6	÷	2580	=	3.690	÷	70	x	100	5.3

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.

I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620

VOLTAGE DROP CALCULATIONS - VISUAL APPLIANCE CIRCUITS

PANEL ID	CKT #	15cd STROBE 0.280 QTY.	AMP	30cd STROBE 0.280 QTY.	AMP	75cd STROBE 0.280 QTY.	AMP	110cd STROBE 0.280 QTY.	AMP	15cd STROBE 0.280 QTY.	AMP	30cd STROBE 0.280 QTY.	AMP	75cd STROBE 0.280 QTY.	AMP	110cd STROBE 0.280 QTY.	AMP	102cd STROBE 0.000 QTY.	AMP	(I) TOTAL CURRENT	x	LENGTH FT.	x	21.6	÷	CIR MILS 14awg	=	VOLTS DROPPED	÷	24(V)	x	100	% VOLTAGE DROP
FACP	V1	1	0.280		0.000		0.000	6	1.680		0.000		0.000		0.000		0.000		0.000	1.960	x	360	x	21.6	÷	4110	=	1.480	÷	24	x	100	6.2
FACP	V2		0.000		0.000		0.000	6	1.680		0.000		0.000		0.000		0.000		0.000	1.680	x	310	x	21.6	x	4110	=	1.680	÷	24	x	100	7.0
FACP	V3		0.000		0.000		0.000	6	1.680		0.000		0.000		0.000		0.000		0.000	1.680	x	320	x	21.6	x	4110	=	1.700	÷	24	x	100	7.1

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.

I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580

BATTERY SIZING CALCULATIONS

Project Name:	Moorpark College ANCT ZOO			Panel Name:	FACP	
				Area Served:	Entire TECH Bldg	
Requirement for standby current (hours):		24	hrs.	Design Supervison Current =		15.74 amp-hr
Requirement for alarm current (minutes):		15	min.	Design Alarm Current =		0.81 amp-hr
Spare Battery Capacity (percentage):		25%	%	Additional Capacity Current =		4.14 amp-hr
				Battery AH requirement =		20.69 amp-hr
				Battery Provided		12V65A 65AH BATTERY = 65AH

PANEL EQUIPMENT

Quantity	Device	Standby (ma) Current	Alarm (ma) Current	TOTAL (ma) Standby Current	TOTAL (ma) Alarm Current
1	4-CPU/3-PPS/4-PPS	230	230	230	230
1	4-AUDTELS	85	101	85	101
	4-ANNCPU	145	145	0	0
	4-ANNAUDTEL	98	98	0	0
	4-CPUGRPH	123	123	0	0
1	4-PPS/M configured as BPS	45	45	45	45
	4-PPS/M configured as BBC	45	45	0	0
	3-BPS 10A	50	50	0	0
	3-BBC/M	70	70	0	0
	4-24L series	4	10	0	0
	3-xx series	2	2	0	0
	3-LDSM	5	5	0	0
1	4-LCDLE	50	110	50	110
	4-LCDAUDTEL	50	110	0	0
	4-3LCD	40	93	0	0
1	4-NET-TP(-HC)	32	32	32	32
	4-NET-CAT/4-FWAL-CAT	27	27	0	0
	4-NET-SM/4-FWAL-SM	35	35	0	0
	4-NET-MM/4-FWAL-MM	35	35	0	0
	4-NET-SMH/4-FWAL-SMH	35	35	0	0
	4-NET-SMU/4-FWAL-SMU	35	35	0	0
	4-NET-SMD/4-FWAL-SMD	35	35	0	0
	4-FWAL-1/2/3/4	130	130	0	0
	4-ASDCPU	130	130	0	0
	4-USBHUB	44	44	0	0
	4-NET-AD	130	130	0	0
	4-NET-XT	110	110	0	0
1	4-MIC	8	38	8	38
	4-FT	9	168	0	0
	4-COMREL	0	8	0	0
1	3-SSDC1, 3-SSDC2	144	204	144	204
	3-SDDC1, 3-SDDC2	264	336	0	0
	3-HDB/4	48	1568	0	0
	3-OPS	53	147	0	0
	3-MODCOM	60	95	0	0
	3-MODCOMP	60	95	0	0
	CDR-3	60	100	0	0
	3-ZA20B/A	62	1120	0	0
1	3-ZA40B/A	62	2480	62	2480
	3-ZA95	85	5540	0	0
	3-BPS/M	50	50	0	0
	3-BBC/M	70	70	0	0
	Remote Annunciators			0	0
	4-ANNCPU	145	145	0	0
	4-LCDANN	50	110	0	0
	4-24L	4	10	0	0
	4-24L12S	4	10	0	0
	4-24L18S	4	10	0	0
	4-24L24S	4	10	0	0
	4-2ANN	195	255	0	0
	4-4ANN	145	145	0	0
	4-6ANN	145	145	0	0
	4-8ANN	145	145	0	0
	4-16ANN	145	145	0	0
	4-24ANN	145	145	0	0
	4-ANNAUDTEL	98	98	0	0
	4-FT	9	168	0	0
	4-NET-CAT	27	27	0	0
	4-NET-TP	32	32	0	0
	4-NET-TP-HC	32	32	0	0
	4-NET-MM	35	35	0	0
	4-NET-SM	35	35	0	0
	4-NET-SMD	35	35	0	0
	4-NET-SMH	35	35	0	0
	4-NET-SMU	35	35	0	0
	PANEL TOTALS			656	3240

FIELD EQUIPMENT

1	BC-1R
1	4-CAB5B
4	FIL

	FIELD TOTALS	0	0
		Standby	Alarm
	GRAND TOTALS (field & panel)	656	3240

Formula: [(A + B) x C] + [(D + E) x F] x G = Minimum Amp-Hour Battery Capacity

Where:
A = Internal panel standby current (amps).
B = External device standby current (amps).
C = Duration panel must remain operational (hours).
D = Alarm current (amps).
E = External device alarm current (amps).
F = Duration panel must remain in alarm after standby period ends (hours).
G = Spare battery capacity (percentage).

FIRE ALARM ZONE SCHEDULE

THE NEW FIRE ALARM SYSTEM IS A EST4 EDWARD ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

BPS-10A (RATED 10A OUTPUT)

STANDBY	24 HOURS
ALARM	15 MINUTES

DESCRIPTION	LOAD SUPERVISORY	ALARM
BPS-10A	.070A	.270A
CKT V1		.787A
TOTALS	.070A	1.057A

CALCULATIONS
STANDBY FOR 24 HRS = 1.68AH
15 MINUTES OF ALARM = .395AH
TOTAL AH = 2.075 AH
REQD SIZE: 1.25 x 2.075 = 2.59 AH
BATTERY SIZE REQD-2 x 7.2AH BATTERIES

AMPLIFIER SPEAKER CALCULATION

LOCATION	SPEAKER SIRCUIT	QUANTITY OF SPEAKERS	LOAD PER SPEAKER	TOTAL WATTS PER CIRCUIT
BLEACHER	S1	1	.25 WATTS	.25
		14	2 WATTS	28
		6	1 WATTS	6
			TOTAL WATTS	34.25
			AMPLIFIER PROVIDED	40
			SPARE WATTAGE	5.75

Operating current

Strobes

Strobe setting	16 to 33 VDC	16 to 33 VFWR
15, 30, 75, 110	28 mA	38 mA

Note: Current draw is the same for all candela settings

Sound Level Output

Voltage setting	Wattage setting	Reverberant (UL 1480)	Anechoic (CAN/ULC-S541)
25V / 70V	¼W	78	78
	½W	81	81
	1W	84	84
	2W	87	87

CALCULATIONS 1
SCALE: NONE - E511
-

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — KENNETH W. LUCCI — No. E-8340 — Exp. 09/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

SHEET TITLE:

CALCULATIONS
FIRE ALARM

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E511

DATE: 03/04/25 | SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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Exported By: CMOORE
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Plot By: CHRISTOPHER MARTIN
Plot File: G:\24\822\ELS\Sheets\24-822E512.dwg
Plot Style: LUCCI.ctb
Layout: E512
Xref: G:\24\822\ELS\Xrefs\24-822E512-dwg
Xref: G:\24\822\ELS\Xrefs\24-822E5-dwg

System design benefits greatly from this huge capacity. Minimal cabling requirements take scalability a step further. With EST4 a single copper pair or single fiber supports panel network data, audio data, as well as telephone data. This cuts cable counts by up to 75 per cent. Meanwhile, multiple firefighter's telephones risers are accommodated on the network, which allows them to be deployed at much further distances compared with analog audio transmission methods.

Reduced network cabling not only boosts system efficiency by requiring fewer physical connections, it also saves money by reducing material and labor costs. This means that new EST4 installations benefit from lower cable counts, while retrofits may be able to be upgraded to support audio and telephones without the need to pull additional cable.

For new installations EST4 delivers flexibility. It can use twisted pair wire, Multi-mode fiber, Single Mode fiber, and even CAT5 cable. In fact CAT5 is not restricted to Class N applications. It also meets the stringent requirements of Class A, Class B, and Class X. When using CAT5, distances are not limited to 328 ft. (100 m). EST4's CAT5 support includes a solution that allow up to 3,280 ft. (1 km) of cable length.

Cybersecurity

The security and integrity of the EST4 network is paramount to its ability to maintain systems operations in the face of outside threats. The most vulnerable point of contact for any integrated building system is where it meets the facility owner's existing TCP/IP network. Ironically it is this gateway, which enhances and expands system capability beyond the communications network, that also exposes the system to some of its most critical vulnerabilities.

To combat outside threats, every EST4 panel can deploy proxy firewalls that effectively insulate the internal fire network from external Intranet or internet connections and the malware, ransom ware, and denial-of-services attacks that may be raging beyond. The EST4 proxy firewall uses Advanced Encryption Standard (AES) encryption and secure protocols making it FIPS Pub 197 certified. The FIPS, Federal Information Processing Standards, are the most current and most advanced encryption protocols administered by the National Institute of Standards and Technology (NIST).

EDWARDS recommends the installation of robust commercial firewall between the facilities intra-net and the Internet. To further enhance network security, an optional tamper switch may be installed on EST4 cabinet doors. This alerts the system when equipment enclosures are accessed.

Programming

EST4 is an open book for authorized programmers. Configuration data travels in both directions: it can be downloaded to the panel and uploaded to a laptop. This two-way movement of configuration files allows technicians to upload and backup programming before making changes to the system. By doing so, the tech ensures that trustworthy restore points are available at all times. Also, should the building owner change service companies, up-to-date system programming data can be retrieved with proper authorization, from the panel by the new maintenance personnel in minutes.

Adding to the integrity of panel configuration is an advanced data transfer routine that does not compromise or interrupt normal system operation. This keeps the system fully functional during configuration data exchange – logging events and executing programming during the entire process.

EST4's high-performance Configuration Utility (CU) depicts the system in a graphical tree view, which matches the system's physical layout. This provides a familiar format in which to find programming for specific devices, and also does away with the need for look-up lists when, for example, devices need to be taken out of service because of site specific activities. The programming tool also features a context-sensitive Intellisense rule editor, which checks for syntax and semantic programming errors in real time.

The EST4 Configuration Utility (CU) also makes short work of configuration downloads to the control panel. It does this through a single firmware download for all modules, and a single database download for all node databases.

EST4's on-board USB ports also make it easy to connect with external devices. The USB ports do away with special cables and RS232-to-USB conversion dongles. It allows direct high-speed connection with laptops for the exchange of configuration data at transfer rates of up to 480 Mbps. Printers can be connected to panels or remote annunciators for on-site event and report printouts.

Audio

Nothing informs building occupants better than the spoken word, and EST4's highly intelligible voice audio ensures that those words are heard loud and clear. This high fidelity messaging, across EST4's impressive capacity of 100 channels, provides the flexibility that responders need to get messages out clearly and concisely.

EST4 live paging capabilities ensure that those messages reach the right people at the right time. In addition to standard paging functions (Page to Evacuation, Page to Alert, All Call, and All Call Minus), EST4 introduces Page to Other and Page to Emergency.

Page to Other is a quick way to reach people in stairwells and elevators, while Page to Emergency is for Mass Notification purposes. This added live paging capability allows responders to reach occupants based not only on their proximity to danger, but also based on their potential to move inadvertently towards specific danger points.

EST4 live paging also lets responders select individual paging groups as well as combinations of groups. This allows them to reach people in Alert and Evacuation zones simultaneously without having to page one group, and then page the other.

EDWARDS
United Technologies
LIFE SAFETY & INCIDENT MANAGEMENT

EST4

Emergency Communications Platform



7165-1657
0508

Overview

EST4 is the premier emergency communications system from EDWARDS. Though it represents a small change in name from its predecessor, EST4's leap forward in capability is anything but diminutive. This exciting flagship system features a whole new network architecture that makes fire alarm, mass notification, and building integration easy to implement, quick to service, and secure in the face of today's cyberthreats.

From its thoughtfully-crafted interface to its advanced connectivity and extensive system capacity, EST4 demonstrates that form and function are inseparable elements of good system design. It provides systems engineers with the tools they need to create projects that exceed expectations and have plenty of room to grow, all while respecting facility budgets and construction schedules. The net result is an emergency communications system equally suited to new and retrofit projects; a platform that keeps property safe and steers people clear of danger.

Features

- **Investment-forward Platform Designed for the Future**
  Protects the past with backwards compatibility for EST3 retrofits, flexible feature set.
- **On-board Webserver**
  Remote device-independent access to system status reports.
- **Built-in E-mail and E-mail-to-SMS Messaging**
  Instant notification of specific event types sent to appropriate personnel.
- **Large Full-color LCD Touch Screen with Tactile Buttons**
  Fast, intuitive access to service and responder functions.
- **Five-color LED Indicators**
  System status at a glance, select the color needed during programming, reduces replacement part inventory, maximizes use of available infrastructure.
- **Network data, audio data, and telephone data share a single twisted pair or single fiber strand**
  Up to 75 percent less cabling, substantial cost savings in material and labor.
- **Backwards Compatibility with EST3**
  Wiring, devices, and most local rail modules are backward compatible, providing easy migration paths, economical transition to new technology.
- **Existing Systems Supporting only Network Data can also Support Voice Audio**
  Upgrades add value and extend capabilities in retrofit situations.

continued on next page...

Reporting System Snapshots

EST4 can generate an abundance of stock reports, and users may also design their own within the configuration utility. Printed reports can be generated locally at any control panel, node, or annunciator. Familiar USB connections allow for quick uploading to laptops or transfer to locally-connected printers. Reports can also be sent from any of these locations to system printers elsewhere on the network.

EST4 allows the selection of report data right down to the device level by means of pre-built templates, custom reports, or even on-the-fly using the CU configuration tool. Report content is information rich, detailed, and meaningful. This meticulous report formatting and organization results in highly understandable system overviews and useful deep dives into underlying system configuration data.

Event History Timelines

While system status reports are invaluable for generating snapshots of important data, EST4's event history can paint a vivid picture of the system over time. A giant 20,000-event repository comprises EST4's history, which could span back as far as the system's commissioning. Half of the history can be set aside exclusively for Alarms, ensuring that records of the most important events are preserved. To support forensic investigations, up to 10,000 events can be locked and preserved so as not to be overwritten.

A large variety of pre-built history reports are available for quick access to vital records filtered by day, week, month or year. Custom reports help pinpoint records by date, time, location, device type and more. Together EST4's large history capacity and flexible history reporting serve to create vital timelines that aid in system maintenance and forensic investigations.

Value-added Forward Migration

Easy migration paths ensure an economical transition from EST3 platforms to EST4's next-generation technology. To start, configuration data is easily transferable from an existing EST3 project to an EST4 upgrade. Hardware is also easy to migrate: all Signature Series devices, modules, and service tools are fully supported by EST4, as are Genesis series notification appliances – no rewiring is required.

Existing network cabling is also reusable for upgrades. EST4 even supports network messaging plus live paging with legacy wiring. In fact, simple twisted pair wiring, previously useable only for panel-to-panel data communications can, with EST4, support panel data, paging, as well as telephone. This means that voice audio capability may be added to a system originally wired only for network panel to panel communications – without pulling any additional wire.

EST4 also employs EST3 power supplies, audio amplifiers, MNEC equipment, CAB Series wallboxes, and most local rail modules. This makes the move to EST4 a cost-effective choice for existing installations, and new projects alike. It is a move that will benefit system efficiency and scalability now and for many years into the future.

Agency Approvals

UL864 10th edition - UOJZ, UUKL, SYZV, UOQY

UL2017 2nd edition - FSZI

UL2572 2nd edition - PGWM

ULC-S527-11 3rd edition - UOJZ, UULK7, SYXV7

ULC-S576-14 1st edition - PGWM7

ULCS-S559-13 2nd edition - DYR7

Application

From the moment the control panel is powered up it is apparent that EST4 is designed for ease of use. Its powerful user interface bears this out by allowing operators to use the system with a level of fluidity that naturally guides them through high and low level system operations with efficiency and confidence.

EST4 does this by combining the simplicity of color LCD touchscreen technology with at-a-glance programmable color display strips and tactile direct-access control buttons. These input points, together with meticulously-engineered responder and service functionality, allow EST4's interface to provide clear navigation paths, instant-access shortcuts, and context-sensitive display screens. This means that responders have quick access to vital system event information and control functions, while service personnel can dive deeply into system programming unencumbered by complicated operational routines.

EST4's LCD large touch-screen display is the window into system operation and maintenance functions. It is large enough to support a graphical tree view of the system. The tree closely matches the system's physical layout, so there's no need for look-up tables to find specific devices. This is invaluable to technicians and building service personnel who can pinpoint the location of an off-normal device with a glance at the on-screen tree.

The EST4 LCD is capable of displaying 262,144 colors, EST4's LCD display screen will display eight events without scrolling. In addition to touch-screen capability, the display assembly includes four dedicated easy-access rubber buttons for control functions most needed for emergency response.

Up to 576 tactile switches and 576 LED indicators may be mounted in a single EST4 cabinet for control and annunciation purposes. Control Display Modules (CDMs), comprise a column of programmable buttons accompanied by one or two LED indicator positions per button. Indicator-only modules comprise up to 24 indicators. Switch and indicator module LEDs can be set to any of five colors, providing an additional level of feedback.

Print-anywhere slide-in label inserts give control/display strips context with color-coded shading and other effects. They can be localized for regional language requirements, and printed on-the-fly to accommodate system changes as they are implemented.

Features (continued from page 1)

- **Self-configuring Network**
  No intervention by system admin personnel required.
- **Hot Swappable Network Connections**
  Change from copper to fiber with no system down-time.
- **480 Mbps USB Ports on Panels**
  Fast configuration updates, local printing.
- **Advanced Upload/download Protocol**
  No system down-time during updates.
- **Firewalls meet the latest Advanced Encryption Standards**
  Front-line defense against threats carried by outside networks. NIST - AES Validation #4806.
- **Extended Paging Groups**
  Audio reaches occupants based on location and movement.
- **Local and Remote Reporting**
  Generate reports on-site, at system printers, or remotely via webserver.
- **20,000-event History**
  Invaluable timeline data for service and investigative purposes.
- **Cabinet Doors may be used for Nodes and Annunciators**
  Cabinet Doors may be used for Panels and Annunciators giving a consistent appearance, fewer cabinet parts.

Remote access and notification

System access to EST4 doesn't end when the cabinet door swings shut. A webserver in each EST4 panel allows authenticated users to gain access to day-to-day reporting. EST4 webservices are device-independent and support all major browsers on PC and MAC operating systems, including mobile platforms – without the need for special apps or other software. Users can log into the secure EST4 webserver and run system reports. Like any web page, system reports can be copied, printed, saved, and e-mailed. The system report data can also be saved in XML form and used in external spreadsheet applications for further processing.

EST4 keeps up with the fast pace of mobile computing with its built-in e-mail services and e-mail-to-text-message capabilities. These ensure that key personnel receive instant notification of relevant changes of system state. Technicians can be dispatched to the site within minutes of a service event, while safety and security personnel can arrive concurrently with first responders should the system go into alarm.

Networking

Supporting these important interface developments is a robust system underpinned by solid networking and exceptional security. Thanks to its self-configuring network, EST4 easily deploys and configures without intervention by network administration personnel. It adapts to a wide range of network configurations, including rings, stars, redundant segment, and full mesh topology. The network even allows changes in the physical layer from copper to fiber, and employs hot-swappable network connections at control panels and annunciators. All this improves network reliability and saves money at installation time and throughout the equipment's life cycle.

The advanced technology behind EST4's network is powerful enough to drive the biggest installations viable today. It pushes wire runs into miles, and addressable points into the many of thousands. A single IPv6 or mesh network, for example, can support copper wire runs of nearly a mile between nodes puts detection, alarm, notification, and audio into the furthest reaches of the tallest buildings and broadest campuses. Fiber optic cable handles multiple miles between nodes, while carrying all system data on a single fiber strand.

DIVISION OF THE STATE ARCHITECT

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DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 8340
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

EST4 EMERGENCY COMMUNICATIONS PLATFORM CUT SHEETS

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E512

DATE: 03/04/25 | SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING & INVESTIGATIONS DIVISION
BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No.:	7270-1657:0333
CATEGORY:	7270 - HEAT DETECTOR
LISTEE:	EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL, 34202 Contact: Rodgers, Teresa (941) 739-4225 Email: teresa.rodgers@carrier.com
DESIGN:	Models SIGA-HFD, SIGA-HRD, SIGA-H2D, SIGI-HFD, SIGI-HRD, *SIGA-HFD-NL, *SIGA-HRD-NL, *SIGA-H2D-NL, KI-HFD, KI-HRD, KIR-HD, and KI-H2D Analog Addressable Heat Detectors. Model SIGA-HFD is a 135°F fixed temperature heat detector. Model SIGA-HRD is a combination 15°F rate of rise/135°F fixed temperature heat detector. Models SIGI-HFD and SIGI-HRD are similar to Models SIGA-HFD and SIGA-HRD except for isolation circuitry. Models KI-HFD and KI-HRD are identical to Models SIGA-HFD and SIGA-HRD except for trade name. Model KIR-HD is similar to Model SIGA-HFD except for control panel compatibility. Model SIGA-H2D is similar to Model SIGA-HFD except has a programmable threshold. Model KI-H2D is identical to model SIGA-H2D except for the trade name and installation sheet. *Models SIGA-HFD-NL, SIGA-HRD-NL, and SIGA-H2D-NL are identical to the Models SIGA-HFD, SIGA-HRD, and SIGA-H2D respectively, except to signify no logo on the nameplate label Refer to listee's data sheet for detailed product description and operational considerations.
RATING:	15.2-19.95 Vdc
INSTALLATION:	In accordance with listee's printed installation instructions, NFPA 72 and applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, model number, electrical rating and UL label. Models SIGA-HFD, SIGA-HRD, SIGA-H2D, SIGI-HFD, SIGI-HRD, *SIGA-HFD-NL, *SIGA-HRD-NL, and *SIGA-H2D-NL are under the Edwards brand. Models KI-HFD, KI-HRD, KIR-HD, and KI-H2D are under the Kidde brand.
APPROVAL:	Listed as analog addressable heat detectors. Models KI-HFD and KI-HRD are for use with listee's Models VS1, VS2 and VS4 (CSFM No. 7165-1657:0244); VM-1 (CSFM No. 7165-1657:0309) fire alarm control units. Models SIGA-HFD, SIGA-HRD, SIGA-H2D, SIGI-HFD, SIGI-HRD, *SIGA-HFD-NL, *SIGA-HRD-NL, and *SIGA-H2D-NL are for use with listee's Models EST3 (CSFM No. 7165-1657:0186); iO64, iO500 and iO1000 (CSFM No. 7165-1657:0244); EST3X (CSFM No. 7165-1657:0306) fire alarm control units. Model KIR-HD is for use with listee's Models FX-64, FX-254 and FX-1000 (CSFM No. 7165-1657:0244) fire alarm control unit. Models SIGA-HFD, SIGA-HRD, SIGA-H2D, *SIGA-HFD-NL, *SIGA-HRD-NL, and *SIGA-H2D-NL are for use with listee's bases; Models SIGA-SB, -SB4, -RB, -RB4, -IB, -IB4 (CSFM No. 7300-1657:0120); SIGA-AB4G (CSFM No. 7300-1657:0222); SIGA-AB4GT (CSFM No. 7300-1657:0307) and SIGA-AB4G-LF (CSFM No. 7300-1657:0322). Models SIGI-HFD and SIGI-HRD are for use with listee's bases; Models SIGI-AB4G (CSFM No. 7300-1657:0222); SIGI-AB4GT (CSFM No. 7300-1657:0307) and SIGI-AB4G-LF (CSFM No. 7300-1657:0322). Models KI-HFD, KI-HRD and KIR-HD are for use with listee's bases; Models KI-ABST (CSFM No. 7300-1657:0222), KI-ABDT (CSFM No. 7300-1657:0307) and KI-ABLT (CSFM No. 7300-1657:0322). Model KI-H2D is for use with listee's base; Models KI-ABST (CSFM No. 7300-1657:0222). Authority having jurisdiction should be consulted prior to installation. Refer to listee's Installation Instruction Manual for details. Models comply with the applicable requirements in UL 521, 7th Edition.
NOTES:	

02-02-24 MH

This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: 05/22/2025 **Listing Expires: 06/30/2026**

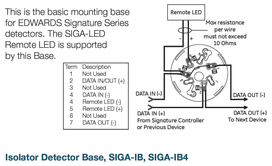
Authorized By: **Michael Huang**, Program Coordinator
Fire Engineering & Investigations Division

Typical Wiring

The detector mounting bases accept #18 AWG (0.75mm²), #16 (1.0mm²), #14 AWG (1.5mm²), and #12 AWG (2.5mm²) wire sizes. Sizes #16 AWG (1.0mm²) and #18 AWG (0.75mm²) are preferred for ease of installation.

Standard Detector Base, SIGA-SB, SIGA-SB4

This is the basic mounting base for EDWARDS Signature Series detectors. The SIGA-LED Remote LED is supported by this Base.



Term	Description
1	Not Used
2	DATA IN/OUT (+)
3	Not Used
4	DATA IN (-)
5	Remote LED (-)
6	Not Used
7	DATA OUT (-)

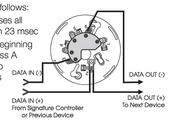
Isolator Detector Base, SIGA-IB, SIGA-IB4

This base includes a built-in line fault isolator for use on Class A circuits. A detector must be installed for it to operate. The isolator base does not support the SIGA-LED Remote LED.

The isolator operates as follows:

- a short on the line causes all isolators to open within 23 msec
- at 10 msec intervals,beginning on one side of the Class A circuit nearest the loop controller, the isolators close to provide the next isolator down the line with power
- when the isolator next to the short closes, it reopens within 10 msec.

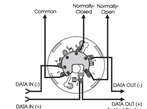
The process repeats beginning on the other side of the loop controller.



Term	Description
1	Not Used
2	DATA IN/OUT (+)
3	DATA IN (-)
4	Not Used
5	Not Used
6	DATA OUT (-)
7	Not Used

Relay Detector Base, SIGA-RB, SIGA-RB4

This base includes a relay. Normally Open or Normally Closed operation is selected during installation. The dry contact is rated for 1 amp (pilot duty) @ 30 Vdc. The relay's position is supervised to avoid accidentally jarring it out of position. The SIGA-RB can be operated as a control relay if programmed to do so at the control panel. The relay base does not support the SIGA-LED Remote LED.

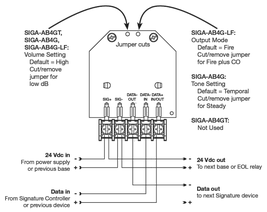


CONTACT RATING
1.0 Amp @ 30 VDC
(Pilot Duty)

Term	Description
1	Normally Open
2	DATA IN/OUT (+)
3	Common
4	DATA IN (-)
5	Not Used
6	Normally Closed
7	DATA OUT (-)

Audible Sounder Bases, Fire Mode

AB4GT, AB4G, AB4G-LF sounder bases



EDWARDS
LIFE SAFETY & INCIDENT MANAGEMENT

Contact us...
Email: edwards.fire@fs.utc.com
Web: edwards-fire.com

1016 Corporate Park Drive
Mebane, NC 27302

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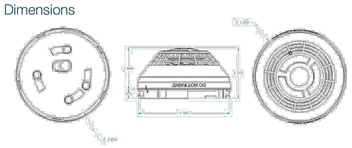
Dimensions



Specifications

	SIGA- HRD	SIGA-HFD
Operating voltage	15.20 to 19.95 VDC	
Normal operating current	51 µA	
Alarm current	68 µA	
Vibration level	10 to 35 Hz, with an amplitude of 0.01 in.	
Rate-of-rise rating	15°F/min (8°C/min)	NA
Fixed temperature rating	135°F (57.2°C). Actual alarm point 129 to 141°F (53.9 to 60.6°C).	
Maximum spacing	50 ft. (15.2 m) centers	
Factory Mutual rating	Ultra-fast	Special
Compatible bases	See Ordering Information	
Compatible detector testers	Testfire 1000, Testfire 2000	Testfire 2000
Operating environment	32 to 100°F (0 to 38°C), 0 to 93% RH, noncondensing	
Construction	High Impact Engineering Polymer, White	
Storage temperature	-4 to 140°F (-20 to 60°C)	
Agency Listings	UL521, CAN/UL-S530, CSFM, FM approved	

Ordering Information

Catalog Number	Description	Ship Wt. lbs (kg)
SIGA-HRD	Intelligent fixed temperature/Rate-of-rise heat detector	0.4 (0.16)
SIGA-HFD	Intelligent fixed temperature heat detector	

Compatible Bases		
SIGA-SB	Detector Mounting Base - Standard	0.2 (.09)
SIGA-SB4	4-inch Detector Mounting Base c/w Trim Skirt	
SIGA-RB	Detector Mounting Base w/Relay	
SIGA-RB4	4-inch Detector Mounting Base w/Relay, c/w Trim Skirt	
SIGA-IB	Detector Mounting Base w/Fault Isolator	
SIGA-IB4	4-inch Detector Mounting Base w/ Fault Isolator, c/w Trim Skirt	
SIGA-AB4G	Audible (Sounder) Base for Fire Detectors	0.3 (0.15)
SIGA-AB4G-LF	Low Frequency Audible (Sounder) Base for CO and Fire Detectors	
SIGA-AB4GT	Audible (Sounder) Base for CO and Fire Detectors	
SIGA-LED	Remote Alarm LED (not for EN54 applications)	0.1 (0.04)
SIGA-TS4	Trim Skirt (supplied with 4-inch bases)	
SIGA-TS	Trim Skirt (optional for non 4-inch bases)	
SIGA-RTA	Detector Removal Tool	

EDWARDS
United Technologies
LIFE SAFETY & INCIDENT MANAGEMENT

Intelligent Heat Detectors

SIGA-HRD, SIGA-HFD



UL S853
FM

Overview

The Signature Series smoke detectors bring advanced sensing technology to a practical design that increases efficiency, saves installation time, cuts costs, and extends property protection capabilities. Continuous self-diagnostics ensures reliability over the long-haul, while the latest thermister technology makes these detectors ideal wherever dependable heat detection is required.

The SIGA-HRD is an intelligent fixed temperature/rate-of-rise fire detector. It monitors the temperature of the surrounding air and analyzes the data from the sensor to determine whether to initiate an alarm. The rate-of-rise heat function quickly detects a fast, flaming fire. The fixed-temperature heat function detects fire when the air temperature near the detector exceeds the alarm point.

The SIGA-HFD is an intelligent fixed-temperature heat detector that contains a fixed-temperature heat sensor rated at 135 °F (57.2 °C). It does not have a rate-of-rise function. The heat sensor monitors the temperature of the air in its surroundings and the detector analyzes the data to determine when the air temperature near the detector exceeds the device's alarm point.

Standard Features

***Note:** Some features described here may not be supported by all control systems. Check your control panel's Installation and Operation Guide for details.*

- Next Generation Heat Sensing Technology
- 135 °F (57 °C) fixed temperature alarm point (HRD and HFD)
- 15 °F (9 °C) per minute rate-of-rise alarm point (HRD)
- Uses existing wiring
- Automatic device mapping
- Sensor Markings Provide Easy Testing Identification
- Up To 250 Total Signature Devices Per Loop
- Non-volatile memory
- Electronic addressing
- Bicolor (green/red) status LED
- Standard, relay, fault isolator, and audible mounting bases
- 50 foot (15.2 meter) spacing

Application

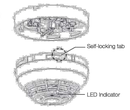
The SIGA-HRD combination fixed temperature/rate-of-rise heat detector provides a 15 °F (9 °C) per minute rate-of-rise heat sensor for the detection of fast-developing fires, as well as a 135°F (57°C) fixed temperature sensor for slow building-fires. The SIGA-HFD fixed temperature detector provides a 135°F (57°C) fixed temperature sensor for slow building-fires.

Compatibility

Signature Series heat detectors are compatible only with the Signature Loop Controller.

Installation

Signature Series detectors mount to North American 1-gang boxes, 3-1/2 inch or 4 inch octagon boxes, and to 4 inch square electrical boxes 1-1/2 inches (38 mm) deep. They mount to European BESA and 1-gang boxes with 60.3 mm fixing centers. See mounting base installation and wiring for more information.



Sensing and reporting technology

The microprocessor in each detector provides additional benefits – Self-diagnostics and History Log, Automatic Device Mapping, and Fast, Stable Communication.

Self-diagnostics and History Log - Each Signature Series detector constantly runs self-checks to provide important maintenance information. The results of the self-check are automatically updated and permanently stored in the detector's non-volatile memory.

Automatic Device Mapping - The loop controller learns where each device's serial number address is installed relative to other devices on the circuit. The mapping feature provides supervision of each device's installed location to prevent a detector from being reinstalled (after cleaning etc.) in a different location from where it was originally.

Fast Stable Communication - On-board intelligence means less information needs to be sent between the detector and the loop controller. Other than regular supervisory polling response, the detector only needs to communicate with the loop controller when it has something new to report.

Accessories

Detector mounting bases have wiring terminals that are accessible from the "room-side" after mounting the base to the electrical box. The bases mount to North American 1-gang boxes and to 3½ inch or 4 inch octagon boxes, 1½ inches (38 mm) deep. They also mount to European BESA and 1-gang boxes with 60.3 mm fixing centers. The SIGA-SB4, SIGA-RB4, and SIGA-IB4 mount to North American 4 inch sq. electrical boxes in addition to the above boxes. They include the SIGA-TS4 Trim Skirt, which is used to cover the "mounting ears" on the base. The SIGA-AB4G mounts to a 4 inch square box only.



Remote LED SIGA-LED - The remote LED connects to the SIGA-SB or SIGA-SB4 Standard Base only. It features a North American size 1-gang plastic faceplate with a white finish and red alarm LED.

SIGA-TS4 Trim Skirt - Supplied with 4 inch bases, it can also be ordered separately to use with the other bases to help hide surface imperfections not covered by the smaller bases.

Sounder Bases - Signature Series sounder bases are designed for use where localized or group alarm signaling is required.

- **SIGA-AB4G** bases provide sounder capability to Signature Series to heat and smoke detectors. They are not intended for use with combination carbon monoxide detectors in Fire-plus-CO mode.
- **SIGA-AB4GT** bases provide sounder capability to Signature Series smoke and heat detectors, as well as carbon monoxide detectors when used with a SIGA-TCDR Temporal Pattern Generator.
- **SIGA-AB4G-LF** bases provide 520 Hz low frequency sounder capability to Signature Series smoke and heat detectors, as well as carbon monoxide detectors when used with a SIGA-TCDR Temporal Pattern Generator. The SIGA-AB4G-LF is suitable for applications requiring low frequency audible tones.

Warnings & Cautions

- This detector does not operate without electrical power. As fires frequently cause power interruption, discuss further safeguards with the local fire protection specialist.
- This detector does not sense fires in areas where heat cannot reach the detector. Heat from fires in walls, roofs, or on the opposite side of closed doors may not reach the detector.
- This heat detector by itself does not provide life safety protection Use this detector with ionization and/or photoelectric smoke detectors.
- This detector does not detect oxygen levels, smoke, toxic gases, or flames. Use this device as part of a broad-based life safety program which includes a variety of information sources pertaining to heat and smoke levels, extinguishment systems, visual and audible devices, and other safety measures.
- Independent studies indicate that heat detectors should only be used when property protection alone is involved. Never rely on heat detectors as the sole means of fire protection.

8121-SW

INTELLIGENT HEAT DETECTORS CUT SHEETS
SCALE: NONE

1
E513

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

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7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

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CONSULTANT

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH M. LUCCI
No. E-8340
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

INTELLIGENT HEAT DETECTORS CUT SHEETS

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E513

DATE: 03/04/25 | SHEET: ___ OF ___

DATE: 16 June 2025 TIME: 8:55 am
PATHNAME: G:\24\822\EL\Sheets
DRAWING FILENAME: 24-822E513
DRAFTER: CM02

Drafter:CM02 - Page Size: 11.0
Scale: 1.0000 Plotted: 16/06/2025 08:55:11
Dwg Units: Inches
XREF:G:\24\822\EL\xrefs\24-822E513.dwg

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING & INVESTIGATIONS DIVISION
BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No.:	7320-1657:0289
CATEGORY:	7320 - SPEAKERS
LISTEE:	EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL, 34202 Contact: Rodgers, Teresa (941) 739-4225 Email: teresa.rodgers@carrier.com
DESIGN:	Models WG4RF-S, WG4RN-S, WG4WA-S, WG4WF-S, WG4WN-S Speakers. Models WG4WA-SVMA, WG4WN-SVMA, WG4WA-SVMHA, WG4WN-SVMHA, WG4RF-SVMC, WG4RN-SVMC, WG4WA-SVMC, WG4WF-SVMC, WG4WN-SVMC, WG4RF-SVMHC, WG4RN-SVMHC, WG4WA-SVMHC, WG4WF-SVMHC, WG4WN-SVMHC Speaker/Strobes. Models WG4RTS and WG4WTS Speaker/Strobe Accessories. Refer to listee's data sheet for detailed product description and operational considerations.
RATING:	25 Vrms or 70 Vrms 1/4 W, 1/2 W, 1W, or 2W
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name model number, electrical/candela rating and UL label.
APPROVAL:	Listed as speakers and speaker/strobes for use with separately listed compatible fire alarm control unit. Speakers with strobes are suitable for the hearing impaired. For indoor/outdoor wet installations when installed with a listed Model 449 backbox. If the distinctive three-pulse Temporal Pattern Fire Alarm Evacuation signal (for total evacuation) in accordance with NFPA 72, 2002 Edition is required, the appliance must be used with a fire alarm control unit that can generate the temporal pattern signal. Refer to listee's Installation Instruction Manual for details.
NOTES:	

04-07-11 fm

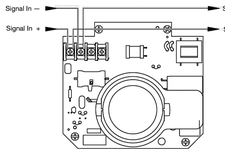
This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: 05/21/2025 **Listing Expires: 06/30/2026**

Authorized By: **Michael Huang**, Program Coordinator
Fire Engineering & Investigations Division

Wiring

Field wiring is connected to WG4 notification appliances with terminals that accommodate #18 to #12 AWG (0.75 mm² to 2.5 mm²) wiring.



–/+ designations indicate the signal polarity required to activate the device.

Specifications

Horns and Horn-strobes

Operating voltage	24 VDC, 24 VFWR nominal
Dimensions (W × H × D)	5.6 × 8.5 × 1.4 in. (142 × 216 × 36 mm)
Horn tone	3.2 kHz
Wire size	12 to 18 AWG (0.75 to 2.50 mm²)
Compatible electrical box	
Outdoor	Model 449 or 74347U
Indoor	4 in. square by 1.5 in. deep box
Operating environment	
Temperature	-40 to 151°F (-40 to 66°C)
Relative humidity	0 to 95% noncondensing

Compatible Synchronization Sources

Horn-strobes

Auto-sync Output Modules	SIGA-CC1S, SIGA-CC2A, SIGA-MCC1S, SIGA-MCC2A
Genesis Signal Master	G1M-RM
Booster & Auxiliary Power Supplies	APS6A, APS10A, BPS6A, BPS10A
Control Panels with Genesis Synchronization built-in	FireShield Plus, iO Series, EST3X

Sound Output

Horns and Horn-strobes (dBA)

Volume Setting	16V		24V		33V	
	UL 464	ULC-S525	UL 464	ULC-S525	UL 464	ULC-S525
Continuous High	89.7	94.0	94.7	99.6	97.4	102.9
Continuous Low	85.4	92.8	89.5	97.2	92.5	98.6
Temporal High	84.2	96.5	90.5	100.5	93.5	104.2
Temporal Low	81.7	90.3	85.4	94.2	88.1	97.0

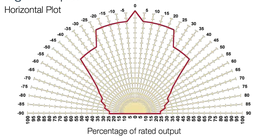
dBA = Decibels, A-weighted.

UL 464: Sound level output measured in a reverberant room at 10 ft. (3.05m).

CAN/ULC-S525: Sound level output measured in an anechoic room at 10ft (3.05m).

Light Output

Horizontal Plot



Standard Candela Horn-strobes

Standard/rating		Strobe Switch Position			
		D	C	B	A
UL 1971	Indoor	15 cd	29 cd	70 cd	87 cd
UL 1638	Outdoor @ -35°C	6 cd	12 cd	28 cd	35 cd
CAN/ULC-S526	Outdoor @ -40°C	1 cd	3 cd	8 cd	10 cd

High Candela Horn-strobes

Standard/rating		Strobe Switch Position			
		D	C	B	A
UL 1971	Indoor	102cd	123cd	147cd	161cd
UL 1638	Outdoor @ -35°C	41cd	50 cd	60 cd	65 cd
CAN/ULC-S526	Outdoor @ -40°C	11 cd	14 cd	17 cd	18 cd

Operating Current

(UL specifies current ratings at 16 volts)

Standard Candela Horn-strobes in RMS (mA), continuous

Input Voltage	Strobe Switch Position			
	D	C	B	A
16 VDC	127	168	297	351
16 VFWR	218	239	393	422
24 VDC	107	130	210	238
24 VFWR	190	222	325	356

High Candela Horn-strobes in RMS (mA), continuous

Input Voltage	Strobe Switch Position			
	D	C	B	A
16 VDC	342	408	517	526
16 VFWR	447	502	614	679
24 VDC	240	271	327	365
24 VFWR	390	400	486	540

Horn only models (mA)

Setting	16V RMS, continuous		24V, typical	
	High dB	Low dB	High dB	Low dB
VDC	69.1	41.2	49.0	32.3
VFWR	135	91.3	99.1	67.1

EDWARDS

LIFE SAFETY & INCIDENT MANAGEMENT

Outdoor Rated Horns and Horn-Strobes

Genesis WG4 Series



Overview

Genesis WG4 Series horns and horn-strobe appliances are among the most versatile emergency appliances of their kind. Rated for indoor or outdoor use, they are suitable for a wide range of wet and harsh environments with a listed operating temperature range of as low as -40 °F to as high as 151 °F (-40 °C to 66 °C).

Field-configurable light and sound output settings add to their on-site flexibility, while optional FIRE markings make them ideal for fire alarm applications.

These appliances are suitable for indoor and outdoor applications, and are ideal for challenging conditions such as parking garages and process areas. They are available for mounting on the ceiling or the wall, and thanks to an ingenious optional full backplane sealing gasket, can be installed to recessed (in-the-pour/block) electrical boxes. WG4 notification appliances also mount to suitable surface boxes. Optional color-matched trim skirts provide a clean, finished appearance. All appliance wiring is accomplished room-side for easy installation.

WG4 Series appliances feature an efficient and powerful piezo sounder. The multi-candela strobes are available with clear lenses in two output categories – standard and high-output. They are precision-timed to meet UL 1971 synchronization standards, and field-configurable for one of four candela intensities. Candela settings are viewable even after installation through an innovative sealed viewport display.

Standard Features

- Outdoor and indoor rated
- Low-profile design
- Wall or ceiling mount
- Room-side wiring accepts 18 to 12 AWG (0.75 to 2.5 mm²)
- Wide operating temperature range
- Field-selectable settings
- Fully-compatible with Genesis synchronization protocols
- Standard and high-output strobe intensities
- Horn only and horn-strobe options

EDWARDS

LIFE SAFETY & INCIDENT MANAGEMENT

Contact us
Phone: 800-655-4497 (Option 4)
Email: edwards.fire@carrier.com
Website: edwardsfiresafety.com

8985 Town Center Pkwy
Bradenton, FL 34202

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Ordering Information



Model	Housing	Marking	Strobe Output	Ship Wt.
WG4RF-HVMC	Red	FIRE	Selectable standard candela output	1.5 lbs. (0.68 kg)
WG4WF-HVMC	White			
WG4RN-HVMC	Red	None		
WG4WN-HVMC	White			
WG4RF-HVMHC	Red	FIRE	Selectable high candela output	
WG4WF-HVMHC	White			
WG4RN-HVMHC	Red	None		
WG4WN-HVMHC	White			
WG4RF-H	Red	FIRE	Horn Only	
WG4WF-H	White			
WG4RN-H	Red	None		
WG4WN-H	White			

Accessories

WG4WTS	Surface Skirt for Genesis WG4 appliance family, white.
WG4RTS	Surface Skirt for Genesis WG4 appliance family, red.
WG4GSKT	Full Body Mounting Gasket for smooth surfaces, WG4 appliance family
74347U	Surface mount box, outdoor rated, red
449	Surface mount box, outdoor rated, gray

(RC-21-01)

Application

Horns

Genesis horn output reaches as high as 97 dBA in accordance with UL 464 (104 dBA in accordance with ULC-S525) and features a unique frequency tone that results in excellent sound penetration and an unmistakable warning of danger. Horns may be configured for either coded or non-coded notification circuits. They can also be set for low dB output with a jumper cut that reduces horn output by about 5 dB.

The suggested sound pressure level for each notification zone used with alarm notification appliances is at least 15 dB above the average ambient sound level, or 5 dB above the maximum sound level having a duration of at least 60 seconds, whichever is greater, measured 5 feet (1.5 m) above the floor. The average ambient sound level is A-weighted (fast response) sound pressure measured over a 24-hour period.

Doubling the distance from the notification appliance to the ear will theoretically result in a 6 dB reduction of the received sound pressure level. The actual effect depends on the acoustic properties of materials in the space. A 3 dBA difference represents a barely noticeable change in volume.

Strobe Application

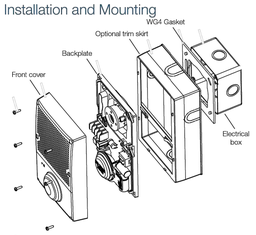
Genesis clear-lensed strobes are UL 1971-listed for use indoors as wall- or ceiling-mounted public-mode notification appliances for the hearing impaired, and UL 1638-listed for outdoor applications. Prevailing codes require strobes to be used where ambient noise conditions exceed specified levels, where occupants use hearing protection, and in areas of public accommodation.

Visible appliance synchronization is required to avoid causing issues with people who have Photosensitive Epilepsy (PSE). Notification appliance synchronization is also generally required when more than two strobe appliances are in the same field of view from any one location. All Genesis strobes meet UL synchronization requirements (within 10 milliseconds over a two-hour period) when used with a synchronization source.

WARNING: These devices will not operate without electrical power. As fires frequently cause power interruptions, we suggest you discuss further safeguards with your local fire protection specialist.

EDWARDS recommends that these devices always be installed in accordance with the latest recognized edition of national and local codes. Refer to the appropriate codes and standards for mounting height information.

Installation and Mounting

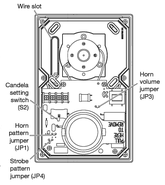


WG4 notification appliances are rated for outdoor use and are suitable for indoor or outdoor applications on walls or ceilings. For surface-mounting in outdoor or wet applications, appliances must be mounted to a 449 or 74347U electrical box. In dry conditions, they are compatible with standard 4-inch square by 1½-inch deep electrical boxes. When using the optional WG4WTS or WG4RTS trim skirt, a 449 or 4-inch square by 2-1/8" deep box must be used.

The Genesis WG4 horn and horn-strobe may be wall- or ceiling-mounted, and may be placed in one of four positions: strobe above, strobe below, and strobe to either side. The shallow depth of Genesis devices leaves room behind the appliance for extra wiring.

Field Configuration

Horn pattern: Audible output for WG4 horns and horn-strobes is factory set to to sound in a three-pulse temporal pattern. Units may be configured for use with coded systems by cutting a JP1 on the circuit board. This results in a steady output that can be turned on and off (coded) as the system applies and removes power to the notification circuit. A Genesis Signal Master is required when horn-strobe models are configured for coded systems.



Horn output: Horns and horn-strobes are factory set for high dB output. Low dB output may be selected by cutting a jumper on the circuit board. This reduces the output by about 5 dB.

Strobe pattern: Genesis WG4 horn-strobes are factory set for use as UL 1971 compliant notification appliances for public mode operation. These notification appliances may be configured for temporal flash by cutting JP4 on the circuit board. This battery-saving feature is intended for private mode signaling only.

Strobe output: Genesis WG4 horn-strobes may be set for one of four output intensities.The output setting is changed by simply opening the device and sliding the switch to the desired setting. The device does not have to be removed to change the output setting. The setting remains visible after the cover is closed through a small window on the front of the device.

OUTDOOR RATED HORNS AND HORN STROBES CUT SHEETS

SCALE: NONE

1 - E514 -

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DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
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APP: 03-124777 INC:
REVIEWED FOR
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DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

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CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — KENNETH M. LUCCI — No. E 8346 — Exp. 09/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

SHEET TITLE:

OUTDOOR RATED HORNS AND HORN STROBES CUT SHEETS

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER: **E514**
DATE: 03/04/25 | SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

DATE: 16 June 2025 TIME: 8:56 am
PATHNAME: G:\24\822\EL\Sheets
DRAWING FILENAME: 24-822E514
DRAFTER: CM02

Drafter:CM02 - Paper Size: 12.0
Scale: 1.0000 - Plotted:6/16/2025 8:56:43 AM
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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING & INVESTIGATIONS DIVISION
BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No.:	7320-1653:0201
CATEGORY:	7320 - SPEAKERS
LISTEE:	System Sensor, Unincorporated Div of Honeywell Int'l Inc. 3825 Ohio Ave, St. Charles, IL, 60174 Contact: Brant, Lisa 2034846105 Email: lisa.brant@honeywell.com
DESIGN:	Models SPR,SPW,SPRV, and SPWV SpectrAlert Speakers - Rectangular enclosure. Models SPCW, SPCR, SPCWV, and SPCRV SpectrAlert Speakers with round enclosure. Models SPSR, SPSRH, SPSW, SPSW-ALERT, SPSW-CLR-ALERT, *SPSWK-CLR-ALERT, SPSWH, SPSRV, and SPSWV SpectrAlert Speaker/Strobe with rectangular enclosure. Models SPSCR, SPSCRH, SPSCW, *SPSCWK-CLR-ALERT, SPSCWH, SPSCRV, SPSCRVH, SPSCWV, and SPSCWVH SpectrAlert Speaker/Strobe with round enclosure. Model SPSCW-CLR-ALERT Speaker/Strobe. Model SPSW-ALERT has amber lens and is intended for non-fire use. All models identified are intended for indoor use mounted on the wall or ceiling. Models with a "K" in the suffix are suitable for indoor or outdoor use with an operating temperature rating of -40°C to +66°C (-40°F to +151°F) and have a NEMA 4X enclosure rating when used with models PWBB, PWBBW (wall) or the model PWBBCW (ceiling) plastic weatherproof back boxes or with Model MWBBW (Wall), MWBB (Wall) or MWBBCW (Ceiling) metal weatherproof back boxes. Models with a "- P" in the suffix have plain housings with no lettering on the enclosure. Models not containing "- P", in the suffix have English lettering reading "FIRE" on the housing. Refer to listee's data sheet for additional detailed product description and operational considerations.
RATING:	Nominal Voltage: 25 Vrms or 70 Vrms Power Settings: ¼, ½, 1, 2 Watts Frequency Range: 400 - 4000 Hz
INSTALLATION:	In accordance with listee's printed installation instructions, NFPA 72, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, model number, electrical rating and UL label.
APPROVAL:	Listed as speaker/strobes when used with separately listed compatible fire alarm control units. Suitable for wall or ceiling mount. These speaker/strobes do not generate a distinctive three-pulse temporal code pattern (for total evacuation) as required per NFPA 72, 2010 edition. If required, the appliances must be used with a fire alarm control unit that can generate the temporal pattern signal.
NOTES:	

*Corrected 02-06-12 bh

This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: 04/30/2025 **Listing Expires: 06/30/2026**

Authorized By: **Michael Huang**, Program Coordinator
Fire Engineering & Investigations Division

UL Current Draw Data

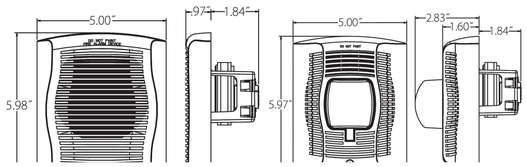
UL Max. Strobe Current Draw (mA RMS)		8 to 17.5 Volts		16 to 33 Volts	
	Candela	DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258
Sound Output					
UL Reverberant (dBA @ 10 ft.)		2W	1W	½ W	¼ W
Outdoor Speaker		90	87	84	81
Outdoor Speaker/Strobe		89	86	83	80

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Strobe Output (cd)	
Listed Candela	Candela rating at –40°F
15	Do not use below 32°F
15/75	
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

Dimensions

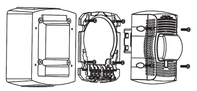


Wall-Mount Outdoor Speaker

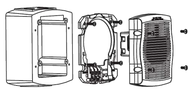
Wall-Mount Outdoor Speaker Strobe

AVDS11301

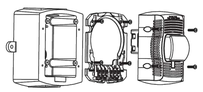
Surface Mounting



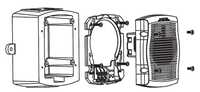
Wall-Mount Speaker Strobe with Plastic Weatherproof Back Box



Wall-Mount Speaker with Plastic Weatherproof Back Box



Wall-Mount Speaker Strobe with Metal Weatherproof Back Box



Wall-Mount Speaker with Metal Weatherproof Back Box

Ordering Information for SpectrAlert® Advance Outdoor Speakers and Speaker Strobes

Wall Mount		
White	Red	Description
SPWK	SPRK	Outdoor Speaker (includes plastic weatherproof back box)
SPWK-R	SPRK-R	Outdoor Speaker (does not include plastic weatherproof back box)
SPSWK	SPSRK	Outdoor Speaker Strobe, Standard cd (includes plastic weatherproof back box)
SPSWK-P	SPSRK-P	Plain Outdoor Speaker Strobe, Standard cd(includes plastic weatherproof back box)
SPSWK-R	SPSRK-R	Outdoor Speaker Strobe, Standard cd(does not include weatherproof back box)
SPSWK-CLR-ALERT	—	Outdoor Speaker Strobe, Standard cd, Clear Lens, ALERT Printed (includes plastic weatherproof back box)
—	SPSRHK	Outdoor Speaker Strobe, High cd (135,150,177,185) (includes plastic weatherproof back box)
Accessories		
White	**Red**	**Description**
MWBBW	MWBB	Wall, Metal Weatherproof Back Box

Notes:
All -P models have a plain housing (no "FIRE" marking on cover)
"Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. **When replacing standard outdoor units, both the device and back box must be replaced.**

SYSTEM SENSOR

3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

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Product specifications subject to change without notice. Visit systemsensor.com for current product information, including the latest version of this data sheet.
AVDS11301 • 09/12

SYSTEM SENSOR

Outdoor, Selectable-Output Speaker Strobes and Dual-Voltage Evacuation Speakers for Wall Applications

SpectrAlert® Advance outdoor, selectable-output speaker strobes and dual-voltage evacuation speakers meet virtually any outdoor application requirement.



SPECTRAlert ADVANCE

SpectrAlert Advance offers the broadest line of outdoor speakers and speaker strobes in the industry. From metal and plastic outdoor back boxes, to white and red plastic housings, to wall and ceiling mounting options, SpectrAlert Advance can meet virtually any application requirement.

Wall-mount outdoor speakers and speaker strobes can be used indoors or outdoors in wet or dry applications, and can provide reliable operation from –40°F to 151°F. These speakers provide a broad frequency response range, low harmonic distortion and maintain a high sound pressure level at all tap settings to provide accurate and intelligible broadcast of evacuation messages.

Like the entire SpectrAlert Advance line, wall-mount outdoor speakers and speaker strobes include a variety of features that increase application flexibility and simplify installation. First, field-selectable settings, including candela, speaker voltage and power settings, and automatic selection of 12- or 24-volt operation enable installers to easily adapt devices to meet requirements.

Next, these devices use a universal mounting plate with an onboard shorting spring that ensures wiring continuity before devices are installed, so installers can verify proper wiring without mounting the devices and exposing them to potential construction damage. Once the plates are mounted, all SpectrAlert Advance devices utilize a plug-in design with a single captured screw to speed installation and virtually eliminate costly ground faults.

Outdoor devices ship with weatherproof plastic back boxes (metal back boxes are available separately) that accommodate in-and-out wiring for daisy chaining devices. Plastic back boxes feature removable side flanges and improved resistance to saltwater corrosion. Knock-outs located on the back eliminate the need to drill holes for screw-in mounting. Plastic and metal weatherproof back boxes come with ¾-inch top and bottom conduit entries and ¾-inch knock-outs at the back. A screw-in NPT plug with an O-ring gasket for a watertight seal is included with each back box.

Features

- Weatherproof per NEMA 4X, IP56
- Rated from -40°F to 151°F
- Plug-in design reduces ground faults
- Universal mounting plate with onboard shorting spring that tests wiring continuity before devices are installed
- Field-selectable candela settings: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Rotary switch for speaker voltage (25 and 70.7 Vrms) and power settings (1/4, 1/2, 1 and 2 watts)
- Compatible with System Sensor synchronization protocol and legacy SpectrAlert products
- Tamper-resistant construction
- Listed for ceiling or wall mounting

Agency Listings

SIGNALING UL LISTED 7030 · FM APPROVED 7320-1653:201 · MEA approved 10-08-E

SpectrAlert® Advance Outdoor Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General
SpectrAlert Advance outdoor speakers and speaker strobes shall mount to a weatherproof back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance speaker strobes, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Outdoor SpectrAlert Advance products shall operate between –40°F and 151°F from a regulated DC, or full-wave rectified, unfiltered power supply.

Speaker
Speaker shall be a System Sensor SpectrAlert Advance Model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. Speaker shall be listed to Underwriters Laboratories Standard S4048 for outdoor fire protective signaling systems. Speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature from –40°F to 150.8°F. Speaker shall have power taps and wattage settings that are selected by rotary switches. The speaker must be installed with its weatherproof back box in order to remain outdoor approved per UL listing S4048. The speaker shall be suitable for use in air handling spaces and wet environments.

Speaker Strobe Combination
The speaker strobe shall be a System Sensor Model _____ listed to UL 1638 and UL 1480 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms and shall have a frequency range of 400 to 4,000 Hz. Speaker shall have power taps that are selected by rotary switch. The strobe shall consist of a xenon flash tube with associated lens/reflector system and operate on either 12 or 24 volts. The strobe shall also feature selectable candela output, providing options for 15 or 15/75 candela when operating on 12 volts and 15, 15/75, 30, 75, 110, 115, 135, 150, 177 or 185 candela when operating on 24 volts. The strobe shall comply with the Americans with Disabilities Act requirement for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The speaker strobe must be installed with its weatherproof back box in order to remain outdoor approved per UL. The speaker strobe shall be suitable for use in wet environments.

Physical Specifications	
Operating Temperature	–40°F to 151°F (–40°C to 66°C)
Dimensions, Wall-Mount	
SPS Speaker Strobe	6.0˝L × 5.0˝W × 4.7˝D (including lens and speaker)
SP Speaker	6.0˝L × 5.0˝W × 2.9˝D
Dimensions, Wall-Mount Weatherproof Back Box	6.5˝L × 5.5˝H × 2.9˝D
Electrical/Operating Specifications	
Nominal Voltage (speakers)	25 V or 70.7 V (nominal)
Maximum Supervisory Voltage (speakers)	50 VDC
Strobe Flash Rate	1 flash per second
Nominal Voltage (strobes)	Regulated 12 VDC/FWR or regulated 24 DC/FWR
Operating Voltage Range (includes fire alarm panels with built in sync)	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Operating Voltage with MDL3 Sync Module	8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal)
Frequency Range	400 to 4,000 Hz
Power	¼, ½, 1, 2 watts

AVDS11301

OUTDOOR SPEAKERS & SPEAKER STROBES CUT SHEETS
SCALE: NONE

DIVISION OF THE STATE ARCHITECT

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APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

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MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

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28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER · KENNETH M. LUCCI · No. E-8340 · Exp. 09/30/2026 · ELECTRICAL · STATE OF CALIFORNIA

SHEET TITLE:

OUTDOOR SPEAKERS & SPEAKER STROBES CUT SHEETS

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER: E515	
DATE: 03/04/25	SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING & INVESTIGATIONS DIVISION
BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No.:	7320-1657:0516
CATEGORY:	7320 - SPEAKERS
LISTEE:	EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL, 34202 Contact: Rodgers, Teresa (941) 739-4225 Email: teresa.rodgers@carrier.com
DESIGN:	Edwards Models G4S, G4SRF, G4SWF, G4SRN, G4SWN, G4SRF-FR, G4SWF-FR, G4SRF-SP, G4SWF-SP, G4SWA, G4SxxxN, G4SxxxF, and G4SxxxA Genesis Wall Speakers. Edwards Models G4SV, G4SVRF, G4SVWF, G4SVRN, G4SVWN, G4SVRF-FR, G4SWF-FR, G4SVRF-SP, G4SVWF-SP, G4SVWA, G4SVxxxN, G4SVxxxF, and G4SVxxxA Genesis Wall Speaker/Strobes. Edwards Models G4SVWA-A, G4SVWA-R, G4SVWA-B, G4SVWA-G, G4SVWN-A, G4SVWN-R, G4SVWN-B, G4SVWN-G, G4SVRA-A, G4SVxxxA-A, G4SVxxxA-R, G4SVxxxA-B, G4SVxxxA-G, G4SVxxxN-A, G4SVxxxN-R, G4SVxxxN-B, and G4SVxxxN-G Genesis Wall Speaker/Strobes. Edwards Models GCS, GCSRF, GCSWF, GCSRN, GCSWN, GCSRF-FR, GCSWF-FR, GCSRF-SP, GCSWF-SP, GCSWA, GCSxxxN, GCSxxxF, and GCSxxxA Genesis Ceiling or Wall Speakers. Edwards Models GCSV, GCSVRF, GCSVWF, GCSVRN, GCSVWN, GCSVRF-FR, GCSVWF-FR, GCSVRF-SP, GCSVWF-SP, GCSVWA, GCSVxxxN, GCSVxxxF, and GCSVxxxA Genesis Ceiling or Wall Speaker/Strobes. Edwards Models GCSVWA-A, GCSVWA-R, GCSVWA-G, GCSVWA-B, GCSVWN-A, GCSVWN-R, GCSVWN-G, GCSVWN-B, GCSVRA-A, GCSVxxxA-A, GCSVxxxA-R, GCSVxxxA-B, GCSVxxxA-G, GCSVxxxN-A, GCSVxxxN-R, GCSVxxxN-B, and GCSVxxxN-G Genesis Ceiling or Wall Speaker/Strobes. *Edwards Models GCSVHRF, GCSVHRF-FR, GCSVHRF-SP, GCSVHWF, GCSVHWF-FR, GCSVHWF-SP, GCSVHRN, GCSVHWN, GCSVHWA, GCSVH*F, GCSVH*F-FR, GCSVH*F-SP, GCSVH*N, and GCSVH*A Ceiling or Wall Speaker/Strobes *Kidde Models EGCSVHRF, EGCSVHRN, EGCSVHWF, EGCSVHWN, EGCSVHWA, EGSVH*F, EGCSVH*N, and EGCSVH*A Ceiling or Wall Speaker/Strobes Kidde Models EG4S, EG4SRF, EG4SWF, EG4SRN, EG4SWN, EG4SWA, EG4SxxxN, EG4SxxxF, and EG4SxxxA Genesis Wall Speakers. Kidde Models EG4SV, EG4SVRF, EG4SVWF, EG4SVRN, EG4SVWN, EG4SVWA, EG4SVxxxN, EG4SVxxxF, and EG4SVxxxA Genesis Wall Speaker/Strobes. Kidde Models EGCS, EGCSRF, EGCSWF, EGCSRN, EGCSWN, EGCSWA, EGCSxxxN, EGCSxxxF, and EGCSxxxA Genesis Ceiling or Wall Speakers. Kidde Models EGCSV, EGCSVRF, EGCSVWF, EGCSVRN, EGCSVWN, EGCSVWA, EGCSVxxxN, EGCSVxxxF, and EGCSVxxxA Genesis Ceiling or Wall Speaker/Strobes. Edwards Models G4TR, G4TW, G4T+, GCTR, GCTW, and GCT+ Trim Plates. Kidde Models EG4TR, EG4TW, EG4T+, EGCTR,EGCTW, and EGCT+ Trim Plates. Model GRSW Wiring/Mounting Plate. Models G4WSB, G4RSB, G4xxxSB, EG4WSB, EG4RSB, and EG4xxxSB Surface Backboxes. Model GOCT Octagon Adapter Plate. The xxx can be any 3 numeric digit code used to designate custom cover color options other than red or white. The + can be any 3 digit alphanumeric or all numeric characters used to designate custom cover color option other than red or white. Models with suffixes -A, -G, -B, and -R employ colored lenses and do not have a candela selector. For models with an Asterisk "*": The * can be any 3 digit alphanumeric or all numeric characters used to designate custom cover color option other than red or white. Refer to listee's data sheet for detailed product description and operational considerations.
RATING:	25 or 70 Vrms; 1/4 W, 1/2 W, 1 W, or 2 W Models G4SV and EG4SV (without suffixes) Candela: 15, 30, 75, or 110cd selectable Models GCSV (without suffixes) and EGCSV Candela: 15, 30, 75 or 115cd selectable *Models GCSVH and EGCSVH Candela: 135, 150, 177, or 185cd selectable
INSTALLATION:	In accordance with listee's printed installation instructions, NFPA 70, NFPA 72, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, model number, electrical and candela rating, and UL label.
APPROVAL:	Listed as speakers or speaker/strobes when used with separately listed compatible fire alarm control unit. Models G4SV and GCSV without suffixes are suitable for the hearing impaired. The lights are only considered synchronized when used in conjunction with Model G1M-RM sync module (CSFM Listing No. 7300-1657:0201) or Model SIGA-CC1S auto-sync output module (CSFM Listing No. 7300-1657:0121). For indoor use only. Models complies with the applicable requirements in UL 1480, 6th Edition. Models G4SV and GCSV also complies with the applicable requirements in UL 1638, 5th Edition. Models G4SV and GCSV without suffixes also complies with the applicable requirements in UL 1971, 3rd Edition. If the distinctive three-pulse Temporal Pattern Fire Alarm Evacuation signal (for total evacuation) in accordance with NFPA 72 is required, the appliance must be used with a fire alarm control unit that can generate the temporal pattern signal. If the distinctive three-pulse Temporal Pattern Fire Alarm Evacuation signal (for total evacuation) in accordance with NFPA 72 is required for sleeping areas, the appliance must be used with a fire alarm control unit that can generate the low frequency signal. Refer to listee's Installation Instruction Manual for details.
NOTES:	

02-06-24 MH

This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: 05/21/2025 **Listing Expires: 06/30/2026**

Authorized By: **Michael Huang**, Program Coordinator
Fire Engineering & Investigations Division

Ordering Information

Notification Appliances	Color	Marking
Speakers	GCSRF	Red	FIRE
	GCSRF-FR	Red	FEU
	GCSRF-SP	Red	FUEGO
	GCSRN	Red	None
	GCSWF	White	FIRE
	GCSWF-FR	White	FEU
	GCSWF-SP	White	FUEGO
	GCSWN	White	None
	GCSWA	White	ALERT
Speaker-strobes	GCSVRF	Red	FIRE
	GCSVRF-FR	Red	FEU
	GCSVRF-SP	Red	FUEGO
	GCSVRN	Red	None
	GCSVWF	White	FIRE
	GCSVWF-FR	White	FEU
	GCSVWF-SP	White	FUEGO
	GCSVWN	White	None
	GCSVWA	White	ALERT

Replacement Appliance Covers	Color	Marking
Speaker Covers	GCSRA-CVR	Red	ALERT
	GCSRF-CVR	Red	FIRE
	GCSRF-FR-CVR	Red	FEU
	GCSRF-SP-CVR	Red	FUEGO
	GCSRN-CVR	Red	None
	GCSWA-CVR	White	ALERT
	GCSWF-CVR	White	FIRE
	GCSWF-FR-CVR	White	FEU
	GCSWF-SP-CVR	White	FUEGO
	GCSWN-CVR	White	None
Speaker-strobe Covers	GCSVRA-CVR	Red	ALERT
	GCSVRF-CVR	Red	FIRE
	GCSVRF-FR-CVR	Red	FEU
	GCSVRF-SP-CVR	Red	FUEGO
	GCSVRN-CVR	Red	None
	GCSVWA-CVR	White	ALERT
	GCSVWF-CVR	White	FIRE
	GCSVWF-FR-CVR	White	FEU
	GCSVWF-SP-CVR	White	FUEGO
	GCSVWN-CVR	White	None

Accessories

GRSW-10	Room Side Wiring Plate 10 pack (required, ordered separately)	GCTR	Trim plate, GC Series, red	GCTW	Trim plate, GC Series, white
		27193-21	Two-gang surface mount box, red	27193-26	Two-gang surface mount box, white

Model Number Syntax, Appliances

GCSVRF
- Genesis Series: **GCS** = Ceiling mount appliances
- Housing Color: **R** = Red, **W** = White
- Housing Marking: **N** = None, **F-FR** = FEU, **F-SP** = FUEGO, **F** = FIRE, **A** = ALERT*
- Functions: **S** = Speaker only, **V** = Strobe only, **SV** = Speaker-Strobe

* ALERT Marking available on white strobe model only. See replacement covers for more options.

Model Number Syntax, Replacement Covers

GCSVRF-CVR
- Genesis Series: **GCS** = Ceiling mount appliances
- Housing Color: **R** = Red, **W** = White
- Cover Designation
- Cover Marking: **N** = None, **F-FR** = FEU, **F-SP** = FUEGO, **F** = FIRE, **A** = ALERT
- Functions: **S** = Speaker only, **V** = Strobe only, **SV** = Speaker-Strobe

EDWARDS
LIFE SAFETY & INCIDENT MANAGEMENT

Contact us
Phone: 800-655-4497 (Option 4)
Email: edwards.fire@carrier.com
Website: edwardsfiresafety.com

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Bradenton, FL 34202

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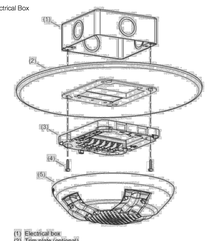
Specifications

Strobe operating voltage	16 to 33 VDC, 16 to 33 VFWR
Speaker operating voltage	25VRMS of 70VRMS (selectable)
Speaker frequency response	400Hz-4,000Hz
Light output	15, 30, 75, or 115 candela
Strobe flash rate	1 fps (flash per second) approx.
Synchronization	20 Ω max. between any two devices. To determine allowed wire resistance, refer to these specifications, and the specifications for the synchronized signal source.
Synchronization Sources	Edwards CC Series Signal Modules, Booster and Auxiliary Power Supplies, Intelligent and Conventional Control Panels
Wire size	12 to 18 AWG (0.75 to 2.50 mm²)
Dimensions (Ø x D)	6.8 x 1.82 in (17.27 x 4.62 cm)
Strobe-to-box center offset	-1.70 inches (-4.32 cm)
Compatible electrical boxes [1]	2-gang, 4-inch square
Trim plates	GCTR, GCTW 10.6 x 0.3 in. (26.92 x 0.76 cm)
Operating environment Temperature Relative humidity	 32 to 122°F (0 to 50°C) 0 to 93% noncondensing
Storage Temperature	-40 to 158 F (-40 to 70 C)
RAL Color	Red=RAL 3013 White=RAL 9002

[1] Electrical boxes must be at least 1-1/2 in. (3.81 cm) deep.
(2) Recommend electrical boxes be mounted at 81 inches AFF

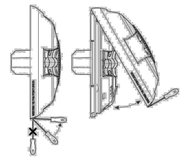
Installation

Electrical Box

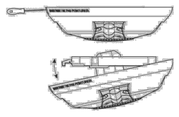


(1) Electrical box
(2) Trim plate (optional)
(3) Wiring plate (required, ordered separately)
(4) Machine screw (2X, supplied with wiring plate)
(5) Notification appliance

Removing Cover

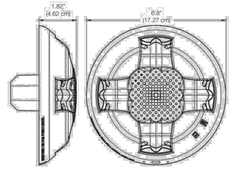


Removing Device

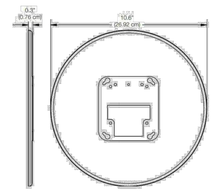


Dimensions

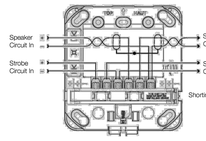
GCS Notification Appliances



GCT Trim Plate (optional)



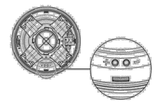
Wiring



Test points indicated above are used to validate the Notification Appliance Circuit and verify device function.

Diagnostics

Strobe Circuit Test Points



Speaker Circuit Test Points



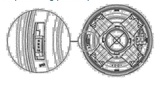
Field Configuration

Genesis LED speakers are capable of both 25V and 70V operation depending on the system. The voltage is set via a switch under the cover. Speakers also may be set for ¼, ½, 1, or 2 watt operation. The wattage setting is visible through a small window on the side of the device and is changed by simply sliding the switch under the cover until the desired setting appears in the window. The speaker does not have to be removed to change the wattage, only the cover skin.

Genesis LED clear strobes and speaker-strobes may be set for 15, 30, 75, or 115 candela output. The output setting is changed by simply removing the cover and sliding the candela switch to the desired setting. The device does not have to be removed from the wall to change the output setting. The setting remains visible through a small window on the left-hand side of the device after the cover is closed.

Light and Sound Output Settings

Light Output Setting (Candela)



Sound Settings (Watts and Volts)



Operating current

Strobes

Strobe setting	16 to 33 VDC	16 to 33 VFWR
15, 30, 75, 115	35 mA	45 mA

Note: Current draw is the same for all candela settings

Sound Level Output

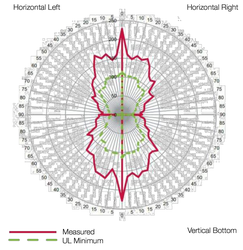
Voltage setting	Wattage setting	Reverberant (UL 1480)	Anechoic (CAN/ULC-S541)
25V / 70V	¼W	78	77
	½W	81	80
	1W	84	83
	2W	87	86

Sound Output

Sound pattern (ULC)

Axis	Angle	Change in output
Horizontal	120° and 60°	–3 dBA
	140° and 40°	–6 dBA
Vertical	120° and 60°	–3 dBA
	145° and 40°	–6 dBA

Light Distribution



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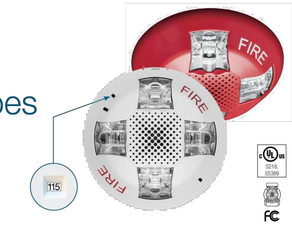
Ceiling Mount Speakers and Speaker-Strobes

Genesis LED GCS Series



Overview

Genesis LED GCS Series speakers and speaker-strobes combine high performance output with a sleek low profile design and energy-efficient technology that makes them less expensive to install and operate. High performance LEDs require fewer power supplies, backup power, and batteries. These new appliances are designed with energy-efficiency, and life safety in mind.

Speakers feature selectable wattage taps, while speaker-strobes allow for both wattage and light output levels to be configured in the field. Both settings remain clearly visible — even after final installation. Speakers are also capable of both 25V and 70V and voltage in a single model with a field selectable switch. All this flexibility allows devices to be easily fine-tuned to exactly how they're needed to perform. All Genesis speakers include a DC blocking capacitor to allow electrical supervision of the audio distribution circuit.

Genesis LED GCS Series uses high efficiency optics, combined with patented electronics, to deliver a highly controlled and efficiently focused light distribution pattern in exchange for lower current requirements. Strobes feature field-selectable 15, 30,75, or 115 cd light output.

Compared with Xenon-type strobes, Genesis LED GCS Series appliances offer greatly reduced current draw which provides benefits in longer circuit lengths, more devices per circuit, smaller wire gauge and reduced power supply quantities for an installation. They are also backwards compatible with legacy strobes, so there's no need to replace all your existing devices to upgrade to new LED technology. In fact, GCS strobes can be mixed on the same circuit and used in the same field of view as Xenon-based strobes. This makes Genesis LED GCS Series ideal for new installations and retrofits alike.

Field-configurable sound output levels provide the flexibility modern life safety projects demand, while the Genesis LED control protocol keeps multiple strobes on compatible NAC circuits synchronized to well within NFPA 72 requirements. They also meet NFPA and UL 520Hz requirements for sleeping areas making them ideal for new construction or retrofits.

GCS Series speakers produce crisp, clear voice audio output that is highly intelligible over large areas. In an emergency, intelligibility is critical to life safety. Understanding the content of the message is as important as knowing there is an emergency. Intelligibility is measured in Speech Transmission Index and anything above .76 is considered excellent. GCS Series speakers deliver audio with an STI of .81 ensuring the message is clear.

Serviceability is another area where GCS Series appliances shine. The universal room side wiring plate allows for pre-installation and electrical wiring as well as checking continuity with the included diagnostics check bar. GCS Series devices can then be easily snapped into place with the confidence of knowing the wiring is correct. The innovative under-cover diagnostic test points provide easy access to device circuit testing while mounted.

Standard Features

- **High Fidelity performance with excellent STI**
  - Increased sound fidelity and audio intelligibility with an STI rating of .81 (More than .76 is excellent)
- **Low Frequency (520Hz) capable**
  - Low frequency output meets NFPA standards for newly constructed commercial sleeping areas
- **High Performance LED Strobe Technology**
  - Ultra low device current consumption allows:
    - More devices per circuit
    - Ability to use lower gauge wire
    - Longer wire runs
    - Fewer booster power supplies
  - High efficiency optics
  - Selectable 15, 30, 75, or 115 cd light output
  - LED devices may be mixed with legacy Xenon strobes on the same circuit and in the same field of view
- **Field flexibility**
  - Speakers are also capable of both 25V and 70V and voltage in a single model with a field selectable switch
  - Speakers feature selectable wattage taps for ¼W, ½W, 1W, and 2W to configure sound output levels in the field
- **Low-profile Design**
  - Ultra-slim... protrudes about 1.5" from the mounting surface
  - Attractive appearance... no visible mounting screws
- **Multiple "FIRE" Marking Options**
  - Order English, French, Spanish or no FIRE markings
  - Change markings at any time with replaceable quick-swap covers
- **Easy to Install**
  - Pre-install and pre-wire with convenient universal room side wiring plate
  - Check electrical continuity on room side wiring plate with included diagnostics check bar
  - Diagnostics port streamlines device circuit testing
  - Fits 2-gang and 4-inch square electrical boxes
  - Optional red and white trim plates available
  - Slide switches for field configuration
  - 12 to 18 AWG in-out screw terminals for quick wiring
- **Current draw is the same for all candela output settings**
  - Easier for new system design
  - Flexible for future changes in light output needs

Application

Strobes

Genesis GCS Series strobes are UL 1971-listed for use indoors as wall or ceiling public-mode notification appliances for the hearing impaired. Prevailing codes require strobes to be used where ambient noise conditions exceed 105 dBA (87 dBA in Canada), where occupants use hearing protection, and in areas of public accommodation as defined in the *Americans with Disabilities Act*.

Synchronization is important in order to avoid triggering seizures in people with photosensitive epilepsy. All Genesis strobes exceed UL synchronization requirements (within 10 milliseconds over a two-hour period) when used with a synchronization source. See the specifications table for a list of compatible sources.

Speakers

The suggested sound pressure level for each signaling zone used with alert or alarm signals is a minimum of 15 dB above the average ambient sound level or 5 dB above the maximum sound level having a duration of at least 60 seconds, whichever is greater. This is measured 5 feet (1.5 m) above the floor.

Doubling the distance from the signal to the ear will theoretically cause a 6 dB reduction in the received sound pressure level. The actual effect depends on the acoustic properties of materials in the space. Doubling the power output of a device (e.g.: a speaker from 1W to 2W) will increase the sound pressure level by 3dBA.

High Fidelity Sound

Genesis LED GCS Series High Fidelity appliances feature 87dB of sound output along with a highly intelligible Speech Transmission Index (STI) rating of .81. An STI rating above .76 is considered excellent for speech intelligibility They are also effective in areas subject to high levels of ambient noise.

These appliances are ideal for hotels, dormitories and other residential occupancies that have sleeping areas that require 520Hz tones. In sleeping areas, always ensure that the wattage tap of the speaker is set sufficiently high so that the sound pressure reaches at least 75 dBA at the pillow.

These appliances are part of an end-to-end audio system approved for use in sleeping areas when used in conjunction with approved audio hardware and a factory-supplied 520 Hz tone. Check the System Compatibility List for other 520 Hz signaling requirements.

Installation

Genesis GCS speakers and speaker-strobes mount to the required GRSW room side wiring plate. The GRSW mounting plate is ordered separately from the GCS device in packs of 10 (GRSW-10) for convenient pre-installing and pre-wiring. The device can be removed easily from the room side wiring plate by pushing up with a screwdriver. The cover can also be removed from the device easily with a screwdriver to access the light and sound output settings and a diagnostics test port for voltage testing.

Genesis LED GCS Series speakers and speaker-strobes mount to any standard two-gang and 4-inch square electrical box. Matching optional GCT trim rings are available to cover oversized openings. Optional color matched double-gang surface boxes are also available.

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PROJECT TITLE AND SCHOOL LOCATION

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7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

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amador whittle architects, inc.
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — DENETH W. LUCCI — No. E 8346 — Exp. 08/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

SHEET TITLE:

CEILING MOUNT SPEAKERS AND SPEAKER STROBES CUT SHEETS

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:
SHEET NUMBER: E516	
DATE: 03/04/25	SHEET: ___ OF ___

L.A.I.# 24-822 PAPER SIZE 42"x30"

CEILING MOUNT SPEAKERS AND SPEAKER STROBES CUT SHEETS
SCALE: NONE
1 - E516 -

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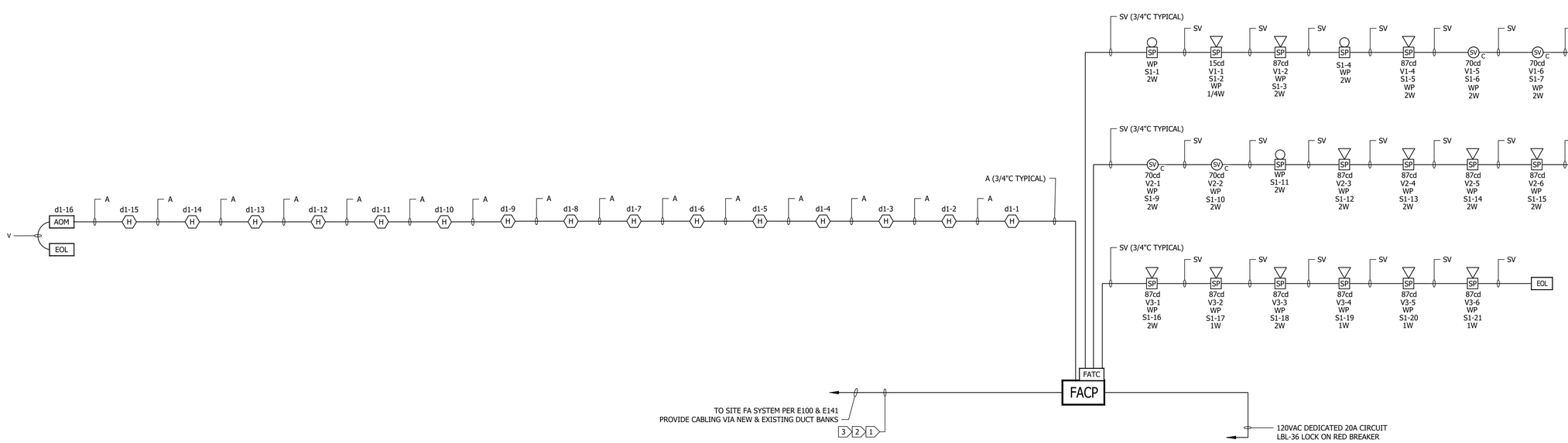
Last Saved: 6/16/2025 8:55:00 AM
Current User: mwilson
Central File: G:\24\822\ELS\Sheets\24-822E516.dwg

SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
2. 3/4" RED CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1"C UNDER GROUND.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

KEY NOTES:

1. VERIFY WITH MANUFACTURER.
2. SITE CABLE TO SITE FA SYSTEM.
3. 4 STRAND SM OPTICAL FIBER.



FIRE ALARM RISER DIAGRAM — 1
SCALE: NONE — E517

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APP: 03-124777 INC:
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DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

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28328 AGOURA RD. 203 | AGOURA HILLS CA. 91301 | 805-558-4334

CONSULTANT

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CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — ERIC T. WU — No. E 8348 — Exp. 09/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

SHEET TITLE:

FIRE ALARM RISER DIAGRAM

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E517

DATE: 03/04/25 | SHEET: ___ of ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

DRAFTER: CM02 DRAWING FILENAME: 24-822E517 PATHNAME: G:\24\822\ELI\Sheets DATE: 16 June 2025 TIME: 8:56 am

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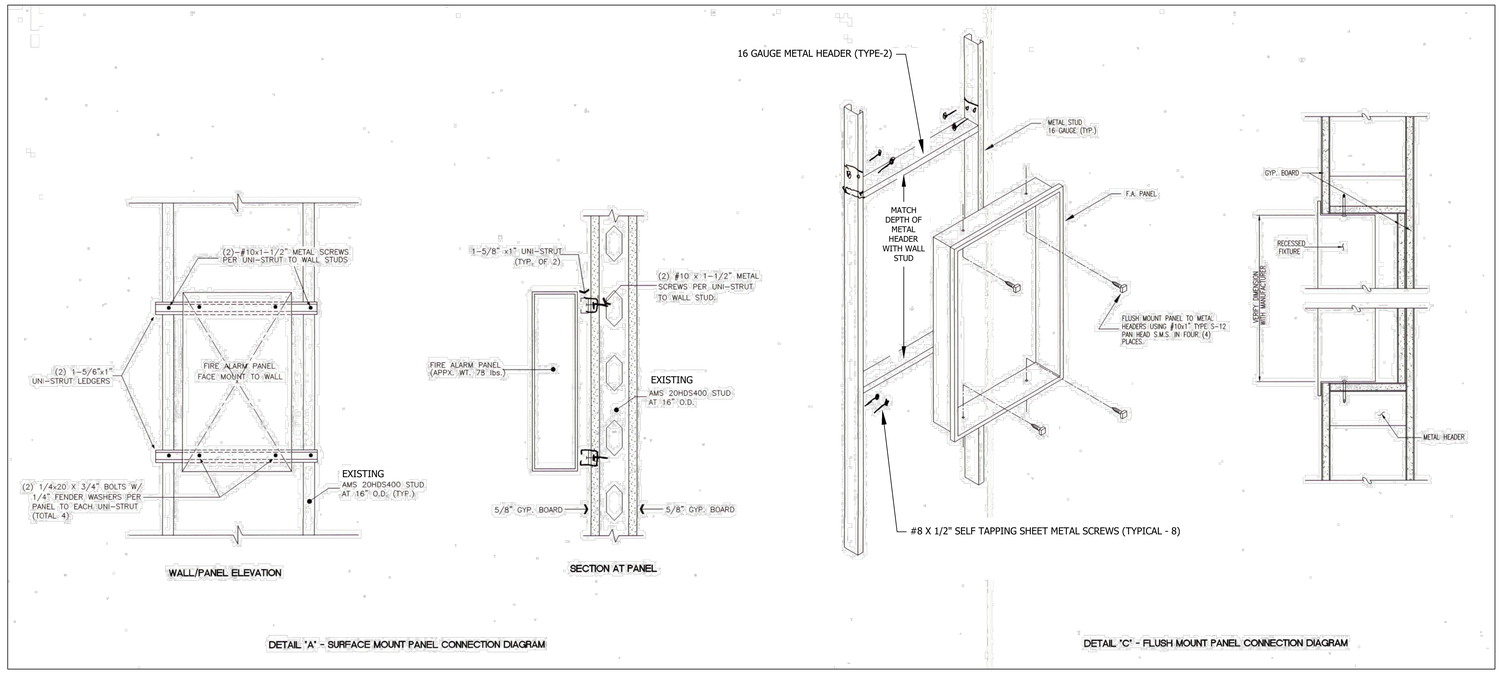

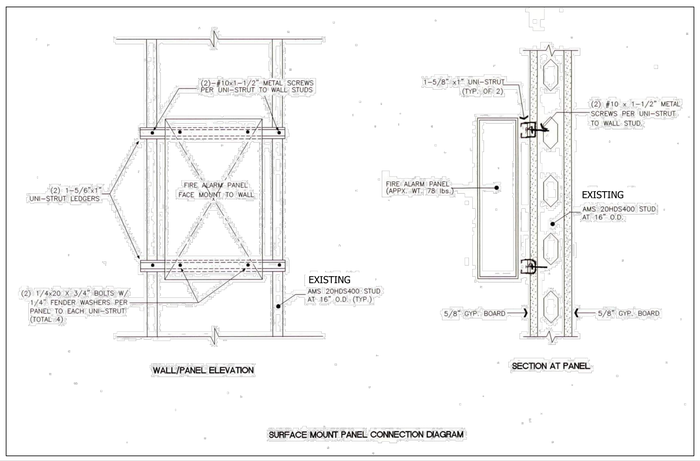

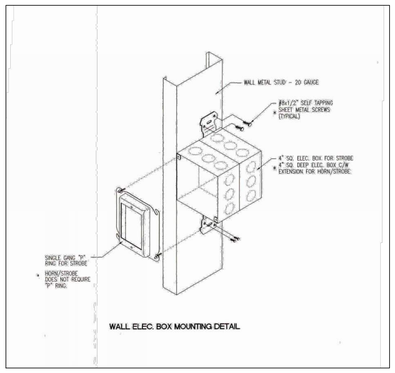

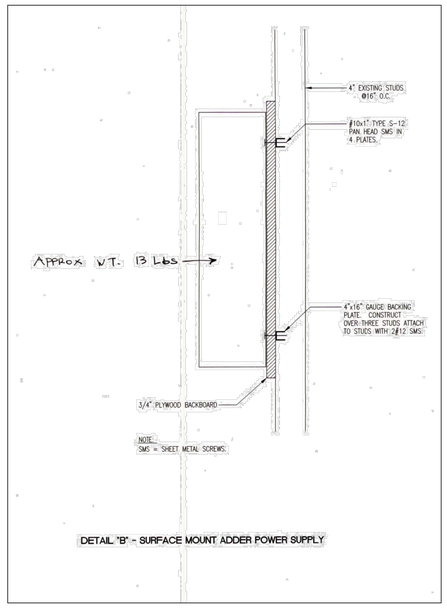

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER KENNETH M. LUCCI No. E 9346 Exp. 08/30/2026 ELECTRICAL STATE OF CALIFORNIA

SHEET TITLE:

FIRE ALARM DETAILS

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:

SHEET NUMBER:

E518

DATE: 03/04/25 SHEET: ___ OF ___

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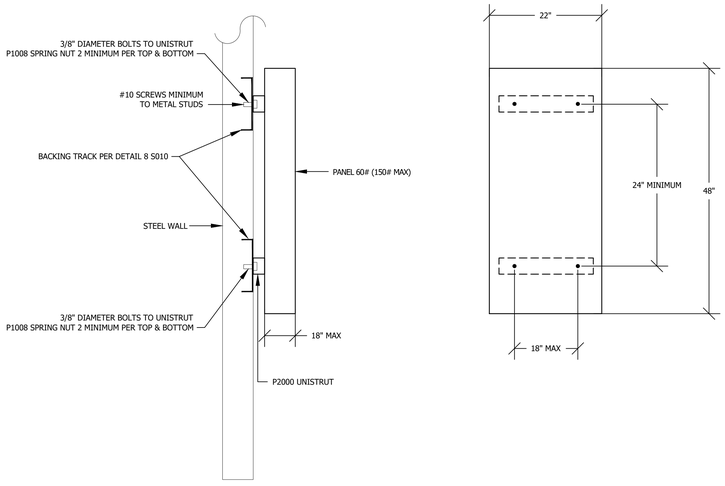
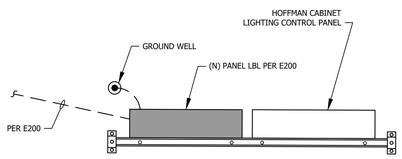


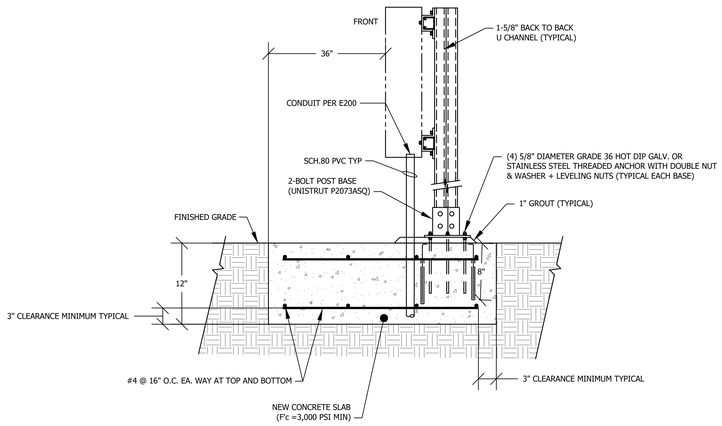
SIDE VIEW FRONT VIEW

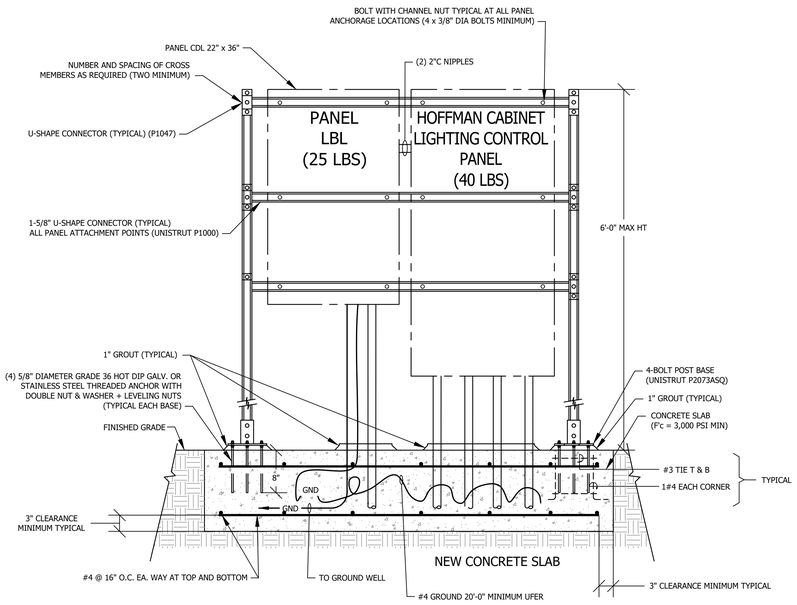
WALL MOUNT PANEL INSTALLATION- METAL 4

SCALE: NONE - E600 -



PLAN VIEW



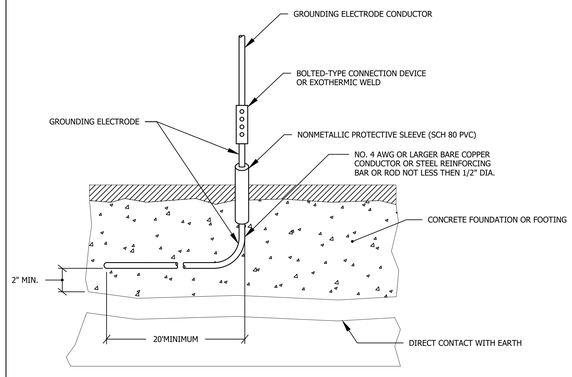


EQUIPMENT RACK MOUNTING DETAILS 2

SCALE: - E600 -

DETAIL NOTES:

1. CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES (50.8MM) OF CONCRETE. LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET (6.1 M) OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH (12.7 MM) DIAMETER, OR CONSISTING OF AT LEAST 20 FEET (6.1 M) OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4, SEE PLANS FOR SIZE OF CONDUCTOR IF GREATER THEN #4.

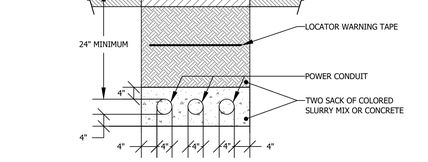


UFER GROUND DETAIL 3

SCALE: NONE - E600 -

DETAIL NOTES:

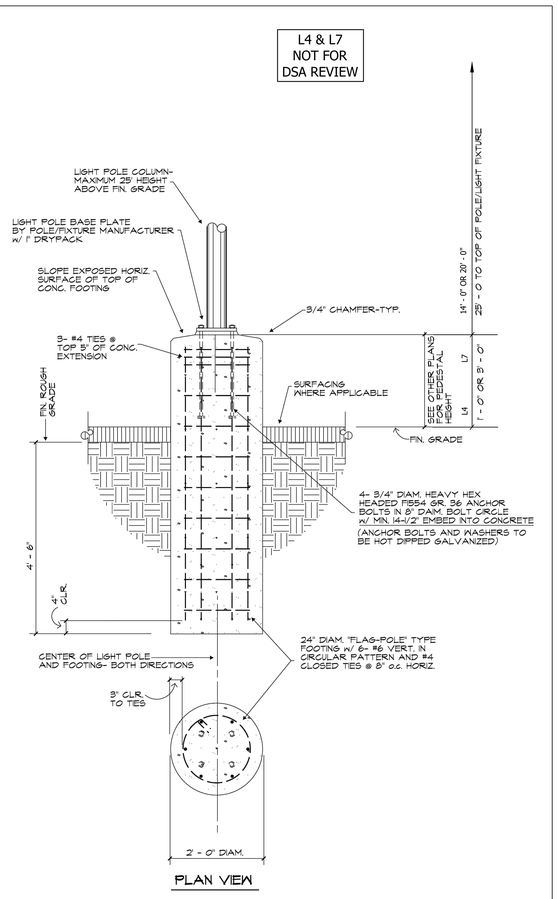
1. ALL CONDUITS TO BE PROVIDED WITH METERED 3/16 PULLSTRINGS OR MULE TAPE THEIR ENTIRE LENGTH.
2. ALL CONDUITS BENDS SHALL BE FACTORY BENDS WITH MINIMUM 12 TIMES DIAMETER BEND RADIUS.
3. ALL FEEDERS TO BE PER ELECTRICAL SINGLE LINE.



TYPICAL TRENCH DETAIL 5

SCALE: NTS VERIFY WITH SCE - E600 -

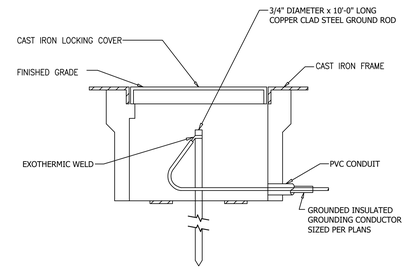
L4 & L7
NOT FOR
DSA REVIEW



PLAN VIEW

20' & 14' HIGH LIGHT POLE - FOOTING DETAIL 6

SCALE: 3/4" = 1'-0"



GROUND WELL DETAIL 1

SCALE: NONE - E600 -

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PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

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MOORPARK, CA 91320

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KENNETH M. LUCCI
No. E4348
Exp. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE:

ELECTRICAL DETAILS

PROJECT NO: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:

SHEET NUMBER:

E600

DATE: 03/04/25 SHEET: ___ OF ___

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Date: 6/16/2025
WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS

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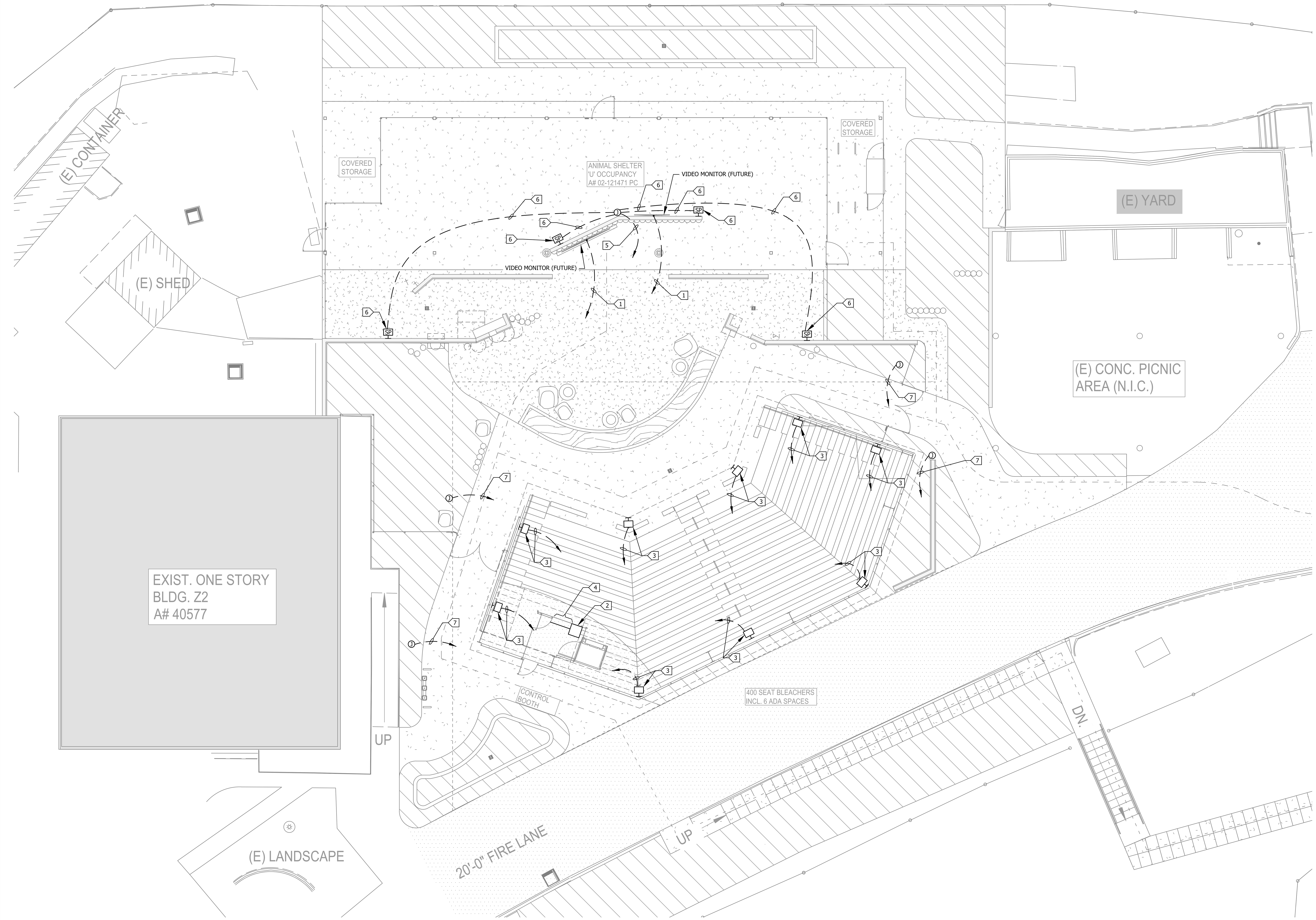

SCALE: 1/8"=1'-0"
0 4' 8' 16'

AUDIO PLAN 1
SCALE: 1/8"=1'-0" E701

N

ASSISTIVE LISTENING SYSTEM

HEARING ASSISTANCE SYSTEM: FM HEARING ASSISTANCE SYSTEM SHALL BE AS MANUFACTURED BY PHONIC EAR, WILLIAMS SOUND, OR EQUAL, AND SHALL BE FURNISHED WITH THE FOLLOWING COMPONENTS:

A. NO. PPA 375 BASE STATION MOUNTED IN A 19-INCH RACK INSTALLED AND CONNECTED TO THE EXISTING PA RACK IN THE STORES ROOM. THE BASE STATION SHALL OPERATE IN 72 MHZ - 76 MHZ BAND AND SHALL BE FURNISHED WITH REMOTE-MOUNTED ANTENNA TO COVER A MINIMUM OF 500 FEET.
B. NO. PPA-R35 SINGLE CHANNEL RECEIVER FOR USE BY THE LISTENER WITH STANDARD HEADSET CONNECTION INCLUDING HEADPHONES. RECEIVER SHALL BE CAPABLE OF BEING CLIPPED TO A POCKET OR BELT. UNIT SHALL BE FURNISHED WITH TWO AA RECHARGEABLE NICKEL METAL HYDRIDE BATTERIES WITH RECEIVERS FURNISHED AT 100:4 RATIO OF SEATS IN THE BLEACHER TO RECEIVERS PROVIDED (17 RECEIVERS). DELIVER RECEIVERS TO THE OWNER BEFORE SUBSTANTIAL COMPLETION.
C. NO. CHG-3512 BATTERY CHARGER ORGANIZER. UNIT SHALL BE CAPABLE OF STORING OR RECHARGING UP TO 12 RECEIVERS AT ONE TIME. THE CHARGER SHALL BE CAPABLE OF RECHARGING THE NICKEL METAL HYDRIDE BATTERIES WITHOUT REMOVING THE BATTERIES FROM THE RECEIVER. BATTERY CHARGERS SHALL BE FURNISHED IN SUFFICIENT QUANTITY TO CHARGE PROVIDED RECEIVERS SIMULTANEOUSLY, AND TRANSMITTED TO THE OWNER BEFORE SUBSTANTIAL COMPLETION.

SHEET NOTES:

1. PROVIDE A COMPLETE FUNCTIONAL AND OPERATIONAL SYSTEM FOR A/V. THIS IS A PERFORMANCE BASED SPECIFICATION AND ONLY APPROVED BY THE EOR SUBSTITUTIONS WILL BE PERMITTED.

KEY NOTES:

1. PROVIDE A 1.25" CONDUIT WITH 4K HDMI CABLE TO AV EQUIPMENT IN THE CONTROL BOOTH FROM VIDEO MONITOR, PROVIDE MFG RECOMMENDED CABLES BOTH ENDS
2. PROVIDE AND INSTALL UNDER THE CONTROL BOOTH COUNTER, A SHORT RACK TO SUPPORT ALL A/V EQUIPMENT. INCLUDE IN THIS RACK A MINIMUM OF 6 RECEPTACLES FED FROM 3 SEPARATE 120VAC CIRCUITS WITH DEDICATED NEUTRALS. CONTRACTOR SHALL PROVIDE,INSTALL, AND MAKE FUNCTIONALLY OPERATIONAL THE FOLLOWING COMPONENTS IN THE RACK:
   - VIDEO SWITCHER CONNECTING THE VIDEO MONITORS WITH THE PTZ CAMERA
   - SHURE ULX-D4 4-CHANNEL WIRELESS RECEIVER AND (6) L50A WIRELESS MICROPHONES AND PROGRAM THEM
   - PURE RESONANCE AUDIO RMA500BT 5-CHANNEL 500W RACK MOUNT AMPLIFIER WITH BLUE TOOTH 4 OHM/70V
   - PROVIDE (2) 1.25" CONDUITS WITH ONE POPULATED WITH (3) CAT6A CABLES TO THE A/V RACK AND ONE WITH (3) CAT 6A CABLES TO COM/DATA JACKS UNDER THE BOOTH COUNTER TOP.
3. PROVIDE/INSTALL JBL#AWC82 LOUDSPEAKERS (WEIGHT 31 POUNDS) AT LOCATIONS SHOWN. ATTACH THE SPEAKERS TO THE UNDERSIDE OF THE ROOF STRUCTURE WITH BEAM CLAMPS AND STAINLESS STEEL SAFETY CABLES (1/8" DIAMETER) LOOPED THRU PERMANENT STRUCTURAL ELEMENTS. FROM EACH SPEAKER BACK TO THE AUDIO AMPLIFIER IN THE BOOTH PROVIDE A .75" CONDUIT WITH ONE WEST PENN# 226. CABLING MAY BE COMBINED BUT DO NOT EXCEED 30% CABLE FILL IN ANY CONDUIT.
4. PROVIDE (3) LITTLITE GEN-V LED LIGHTS ON THE TOP OF THE BOOTH CONSOLE FOR TASK LIGHTING. EACH SHALL BE INDIVIDUALLY POWERED/CONTROLLED AND ALL ARE CONNECTED TO THE SAME LIGHTING CIRCUIT.
5. 1-1/4"C. & 4 WEST PENN AQ226 FROM J-BOX TO AUDIO AMPLIFIER IN BOOTH.
6. JBL CONTROL X SPEAKER WITH LOCAL VOLUME CONTROL (WP) & WEST PENN AQ226 TO AUDIO AMPLIFIER IN BOOTH.
7. 1"C.O. FROM JBOX TO AUDIO AMPLIFIER IN BOOTH.

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8340 Exp. 09/30/2026 ELECTRICAL STATE OF CALIFORNIA

SHEET TITLE:

AUDIO PLAN

PROJECT NO.: 21-MPC-040	PROJECT ARCH:
DRAWN: LK / DS / IT	CHECKED:

SHEET NUMBER:

E701

DATE: 03/04/25	SHEET: ____ OF ____

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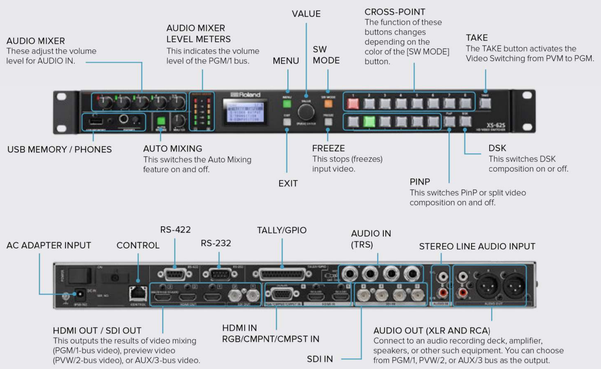
Drafter: CM01: G:\24\822\EL\Sheets\24-822E701.dwg: DATE: SEP 05, 2024 TIME: 1:23 PM

XS-62S | HD VIDEO SWITCHER VER 2.5



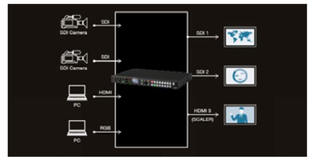
Rackmount Switcher for Live Production and Fixed Installations with PTZ Camera Control

- 4 SDI Inputs (with de-interlacer)
- 2 HDMI Inputs (scaled)
- RGB/COMPONENT/COMPOSITE input (scaled) – shared with HDMI input 6
- 2 SDI Outputs – assignable to PGM, PVW, AUX
- 2 HDMI Outputs – assignable to PGM, PVW, AUX
- 1 HDMI Output (scaled / multi-view) – multi-view or scaled output
- TALLY/GPIO
- RS-232 – Remote control
- RS-422 – PTZ Control (VISCA)
- LAN – Remote control and Smart Tally (PTZ Control (VISCA)

WUXGA 1080p/60p | 4K 2160p/30p | AUDIO EMBEDDING | SMART TALLY

MATRIX Mode

Individual video input signals can be output to three different destinations on three buses. This mode is effective for routing signals and is ideal for events and using multiple screens. A black background is displayed when switching feeds.



PGM / PST Mode

PGM/PST Mode operates as a traditional video switcher complete with video compositions that enable grouping multiple images on one screen. You can create compositions by combining DSK for layering titles and graphics as well PinP inset of video. Compositions can be previewed before sending to Program on the Preview output and can be sent to Program by pressing the TAKE button.

DISSOLVE Mode

Video switching and composition with cross dissolve to the PGM bus are possible in Dissolve Mode. Dissolve Mode is easily operated from the front panel and is suitable for a system where the user directly operates the main unit in a meeting space or event.

FEATURES



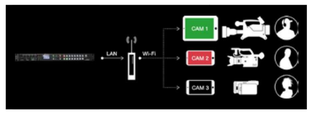
PTZ Control

Achieve multiple camera angles for fixed installations by controlling up to six PTZ cameras using VISCA protocol. Save and recall seven position settings for each camera.

XS-62S System Program Ver 2.5

The Ver.2.5 update supports JVC, Panasonic PTZ and Canon camcorder control, audio effect preset, adds PNG still image format, improves User interface, and more.

Smart Tally



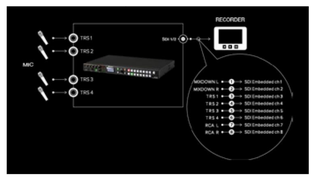
Roland's unique and proprietary wireless tally system uses a wireless LAN router connected to the XS-62S to send tally information to iOS or Android devices on the network.

Remote Control

An easy-to-use software application XS-62S RCS for Mac or PC provides setup and control information for the Roland XS-62S through a network port. Copy, store and recall memory (backup) and preset settings. The XS-62S is equipped with an RS-232 and LAN port for control and operation remotely from a touch panel or other programmable interface device.

Discrete Multi-channel Audio Embedding

Assign up to eight analog audio inputs a separate audio embed channel on SDI 1 and 2 outputs to ensure a separate mix pre-effect (dry) or post-effect (wet) for correcting audio problems post live event. This feature is also useful for multi-language events to record the voice-over or language translation on its own audio channel to a separate master.



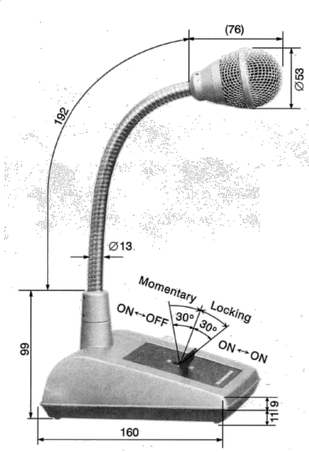
BRC-X400 SONY CAMERA



NDI® | HX capable 1/2.5-type Exmor R CMOS-equipped IP 4K remote camera

- This video camera features a 1/2.5-type Exmor R CMOS 4K image sensor and integrated swivel base.
- It supports 4K format.
- It comes with an SDI/HDMI/IP output as standard equipment.
- Clear Image Zoom enables 30x zoom when shooting in 4K and 40x zoom when shooting in HD. Tele Convert Mode enables a maximum equivalent of 80x telephoto zoom performance when shooting in HD.
- This single camera covers a shooting range from wide angle (approx. 70°) to telephoto.
- PoE+ (IEEE802.3at) support enables power supply via a network cable.
- It is NDI® | HX capable and can be used to build live system with NDI® compatible devices.
- Equipped with Genlock and a tally light.
- Audio input to the audio input connector can be superimposed on the IP output for transmission.

DIMENSIONS



DESCRIPTION

The Pure Resonance Audio PTT1 provides excellent performance and reliability from a desktop push to talk microphone for paging, announcements, general public address, and communication applications. The PTT1 features a uni-directional dynamic gooseneck microphone, table-stand, momentary locking switch, 5-foot cable, and three-pin male XLR connector. The durable gooseneck and metal table-stand ensure the PTT1 paging microphone can withstand even the toughest daily use in commercial environments.

FEATURES

1. Reliable and durable to withstand daily commercial use
2. Ideal for paging and announcements
3. Uni-directional dynamic gooseneck microphone
4. Die-cast zinc alloy metal table-stand
5. Dual momentary and locking push to talk switch
6. Three-pin male XLR connector

SPECIFICATIONS

Microphone Type	Dynamic
Polar Pattern	Uni-directional
Frequency Response	80~12,000Hz
Impedance	600Ω±30%
Sensitivity	-72dB±3dB
Connector	3-pin male XLR
Housing	Die-Cast Zinc
Cable	1.5M (approx. 5')
Dimension	6.38" (162mm) x 4.8" (122mm) x 14.49" (368mm)
Weight	1.87 lbs (0.85 kg) (Without Cable)

JBL PROFESSIONAL

AWC82

All-Weather Compact 2-Way Coaxial Loudspeaker with 8" LF

Professional Series



Key Features:

- Highly weather-resistant IP56 rating.
- Consistent 120° x 120° broadband pattern control.
- Components:
  - 200 mm (8 in) woofer with Kevlar-reinforced cone and 50 mm (2 in) voice coil.
  - 25 mm (1 in) exit compression driver with unique patented design and high temperature polymer diaphragm.
- Extraordinary clarity for speech, with extended frequency response for music.
- Advanced high-slope crossover network for constant coverage and smooth, natural midrange.
- 250 Watt power handling (average continuous pink noise) with high sensitivity provides high SPL capability.
- High-power passive crossover network.
- Overload protection.
- 80 Hz – 20 kHz frequency response.
- 200 Watt 70V/100V multi-tap (built-in transformer) or direct 8Ω low-impedance.

Applications:

The AWC82 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system which is ideal for speech and music-fill in a wide variety of applications, including sports facilities, racetracks, stadiums, fairgrounds, rodeos, skating rinks, themed entertainment venues, water parks, outdoor background music/paging systems, swimming pools, and a wide variety of other outdoor or indoor venue types.

The AWC82 is comprised of a high-power coaxial 200 mm (8 in) low frequency driver and 25 mm (1 in) high frequency compression driver. The co-axial design utilizes a unique tapered pole-piece design and transitions to the cone of the low frequency driver as a large diameter pattern control horn for the high frequencies, both eliminating high-frequency beaming which is common among this category of speaker and extending pattern control to the lowest possible frequencies. The result is a coaxial speaker with wide, extremely consistent 120° coverage on a broadband basis.

Component features include a Kevlar-reinforced low frequency cone for reliability, well-damped surround for smooth frequency response, high temperature voice coil and a reduced distortion design through saturated-gap magnet geometry. The high frequency compression driver features a unique patented design, high temperature polymer diaphragm, and fluid-cooling for high output levels with low distortion.

The paintable enclosure is constructed of thick, ABS plus fiberglass and is heavily braced to maximize low-frequency performance. The corrosion-resistant zinc-rich extra-thick powder coated steel grille is backed with open cell foam and high thread-count mesh, providing excellent protection in the harshest environments. The system is rated IP-56, per IEC529 when installed at minimum 5° down-tilt.

The system is equipped with a 200W 70V/100V multi-tap transformer. Connection is made via outdoor-rated terminals in a recessed terminal cup. A protective terminal compartment cover is included, along with gland nut, which forms a water-tight seal with round-jacketed cable having outside diameter between 4 mm (0.16 in) and 9 mm (0.36 in).

A heavy-duty weather-capable zinc-rich, thick powder coated U-type mounting bracket is included.

Specifications:

System:	
Frequency Range (-10 dB)[1]:	80 Hz – 20 kHz
Frequency Response (±3 dB)[1]:	100 Hz – 20 kHz
Coverage Pattern[2]:	120° x 120°
Directivity Factor:	8.1 (1 k – 16 kHz)
Directivity Index (DI):	7.9 dB (1 k – 16 kHz)
Long-Term System Power Rating (IEC)[3]:	250 W 2 hrs. 200 W 100 hrs.
Sensitivity (2.83V @ 1m):	94 dB (Ave. 100 Hz – 20 kHz)
Maximum SPL[4]:	Direct 8Ω: 118 dB (peaks of 124 dB) 200 W Tap: 117 dB
Crossover Network:	1.8 kHz, 3rd-order (18 dB/oct) high-pass plus conjugate to HF, 2nd-order low-pass to LF
Nominal Impedance:	8 ohms
Transformer Taps:	70V: 200W, 100W, 50W, 25W 100V: 200W, 100W, 50W
Transducers:	
Low Frequency Driver:	Kevlar-reinforced cone with weather treatment, 50 mm (2 in) voice coil.
High Frequency Driver:	25 mm (1 in) diaphragm and voice coil diameter, high temperature polymer diaphragm, patented design, fluid-cooling.
HF Driver Protection:	Minimum audibility SonicGuard™ HF overload protection
Physical:	
Enclosure:	ABS with Glass enclosure
Attachment:	Two M10 (fine-thread) points for included U-bracket. Reference torque 15 ft·lb (20 N·m). M6 secondary safety attachment point on back panel.
Grille:	Corrosion-resistant zinc-rich extra-thick powder coated steel grille, 3-layer assembly with foam and woven poly mesh backing.
Input Connection:	CE-compliant covered barrier strip terminals. Barrier terminals accept up to 8 mm outside-6 mm inside-open-lug (#6 or #8) plus bare wire up to 2.5 mm2 (12 AWG) wire or spade lugs. Terminal compartment cover equipped with gland nut that forms water-tight seal with round-jacketed cables with outside diameters between 4.0 mm (0.16") and 9.0 mm (0.36").
Environmental:	IP56 per IEC529, with a minimum 5° downward aiming angle. Exceeds Mil Spec 810 for humidity, salt spray, temperature & UV, and ASTM G85 for acid-air/salt-spray (336 hrs).
Dimensions:	300 x 300 x 305 mm (11.8 x 11.8 x 12.0 in), cabinet 331 mm (13.0 in) including gland nut 359 mm (14.2 in) including bracket extending to back
Colors:	Available in gray (similar to Pantone 420C) and black (-BK)
Net Weight:	9.8 kg (21.5 lb); 11.6 kg (25.5 lb) with U-bracket
Shipping Weight:	14.1 kg (31.0 lb)
Included Accessories:	U-bracket, matches loudspeaker color (gray or black), zinc-rich extra thick powder coated, steel.

[1] Full-space (free-field)
[2] Average 1 kHz to 10 kHz
[3] IEC standard, full bandwidth pink noise with 6 dB crest factor.
[4] Calculated based on power rating and measured full-space sensitivity.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

PURE RESONANCE AUDIO®

RMA500BT

5-Channel 500W Commercial Rack Mount Mixer Amplifier with Bluetooth 4 Ohm/70V



DESCRIPTION:

The Pure Resonance Audio RMA500BT 5-channel 4 Ohm/70V commercial rack mount mixer amplifier provides quick and easy Bluetooth connection and 500 watts of high-performance Class D power encased in a slim and lightweight space-saving design. With the forced air-cooling fan and emergency priority capabilities, this compact and affordable mixer amplifier perfectly accommodates any commercial business or public address application making it ideal for your office, school, restaurant, retail store, or any background music, paging or announcement complete audio system.

FEATURES:

- 1 RU chassis, high-efficiency, and lightweight design
- MP3 media player supports USB, TF, Bluetooth and FM tuner
- Supports 1 emergency channel input, 2 AUX inputs, and 4 MIC inputs
- Bass and treble tone controls
- Level, overload, and protection light indicators provide short circuit, overload, and overheating protection
- Advanced high-performance power amplifier circuit
- 4 - 16 Ohm/70V speaker output
- 500W rated output power
- Forced air-cooling fan from front to back, starts up in a uniform speed rotation and then speeds up when the temperature increases to meet long working hours
- Remote control with replaceable CR2025 3V lithium battery

PRODUCT SPECIFICATIONS:

Rated Power Output	500W
Speaker Outputs	4-16Ω / 70V
Input Sensitivity	MIC: 5mV÷1mV LINE: 350mV÷20mV AUX: 350mV÷20mV EMC: 775mV÷40mV
Output Sensitivity	MIX OUT: 1000mV/470Ω
Tones	Low frequency: ± 10 dB at 100Hz High frequency: ± 10 dB at 10kHz
Frequency Response	80Hz ~ 16kHz +/- 3 dB
S/N Ratio	MIC1, 2, 3: 65 dB; AUX1, 2: 85 dB
THD	0.05%
Indicator	Power indicator
Cooling Mode	Forced fan with variable speed cooling with side entry airflow
Protection Mode	Overheat/Short-circuit
Operation Temperature	+5°C ~ +40°C
Storage Temperature	-20°C ~ 70°C
Relative Humidity	<95% (No condensation)
Voltage	110 - 120V 60Hz
Power Consumption	650W
Dimensions (H x W x D)	1.73 x 19.05 x 12.4" (44 x 484 x 315 mm)
Weight	9.48 lbs (4.3 kg)
Shipping Weight	14 lbs (6.35 kg)

Specifications may change without notice.

PURE RESONANCE AUDIO®
(866) 676-7804
sales@pureresonanceaudio.com
www.PureResonanceAudio.com

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

MOORPARK COLLEGE

7075 CAMPUS RD
MOORPARK, CA 93021
TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION

ANCT ZOO VISITOR BLEACHERS & STORAGE

7075 CAMPUS ROAD
MOORPARK, CA 91320

COMMISSIONED ARCHITECT

AMADOR

amador whittle architects, inc.
28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

CONSULTANT

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
PHONE (805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER LUCCI No. E 8348 Exp. 08/30/2026 ELECTRICAL STATE OF CALIFORNIA

SHEET TITLE:

AUDIO EQUIPMENT

PROJECT NO: 21-MPC-040 | PROJECT ARCH:
DRAWN: LK / DS / IT | CHECKED:
SHEET NUMBER:

E702

DATE: 03/04/25 | SHEET: ___ OF ___

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L.A.I.# 24-822 PAPER SIZE 42"x30"

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DATE: 06/19/2025

MOORPARK COMMUNITY COLLEGE
ANCT BLEACHERS
MOORPARK, CALIFORNIA

GENERAL REQUIREMENTS:

1. CONFLICTS: NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT.
2. CODES: ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 2022 CALIFORNIA BUILDING CODE (CBC) & 2017 ICC 300.
3. SIMILAR WORK: WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.
4. EXCAVATIONS: OWNER TO LOCATE AND PROTECT UNDERGROUND OR CONCEALED CONDUIT, PLUMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED.

DESIGN CRITERIA

1. DEAD LOADS:
   - BLEACHERS (INCLUDES GIRDERS)..... 10 PSF
2. LIVE LOADS:
   - LIVE LOAD..... 100 PSF
   - SEATS..... 120 PLF
   - FOOTBOARDS..... 100 PSF
   - SWAY (PERPENDICULAR)..... 10 PLF
   - SWAY (PARALLEL)..... 24 PLF
   - GUARDRAILS AND HANDRAILS*..... 50 PLF
     - * OR A 200 POUND CONCENTRATED LOAD APPLIED TO RAIL AT ANY POINT IN ANY DIRECTION.

PRESS BOX:
- DEAD LOADS
  - FLOOR..... 15 PSF
  - ROOF..... 15 PSF
- LIVE LOADS
  - FLOOR/ROOF..... 100 PSF

COLD FORMED MEMBERS (PRESS BOX):

MATERIALS:

STEEL PROPERTIES			
TUBE	4" SQUARE X 11 GA. TUBE	A500 GRADE B	Fy = 46ksi, MIN.
DIAGONAL ANGLE	L2 X 2 X 3/16"	A572 / A529	Fy = 50ksi, MIN.
BELLY PAN ANGLE	L2 X 2 X 1/8"	A572 / A529	Fy = 50ksi, MIN.
CEES	4 X 2 1/2 X 14 GA.	A1011 / A653	Fy = 55ksi, MIN.
FLAT STRAP	4" X 14 GA.	A1011 / A653	Fy = 55ksi, MIN.
ROOF PLATE	11GA. OR 1/8"	A1011 / A653 / A786	Fy = 27ksi, MIN.

1. CODES AND FABRICATION: STEEL STUD MANUFACTURER'S ASSOCIATION ICC ESR 3064P OR APPROVED EQUAL.
2. COLD FORMED SHAPES SHALL BE LIMITED TO A THICKNESS OF 11 GAGE OR THINNER.

ALUMINUM:

1. MATERIALS: ALUMINUM
   - SHAPES.....ALLOY 6061-T6 OR 6005-T5 (Fy = 35 KSI)
   - PLANKING.....ALLOY 6063-T6 (Fy = 25 KSI)
2. DISSIMILAR MATERIALS: WHERE ALUMINUM SURFACES ARE IN CONTACT WITH STEEL, THE STEEL SHALL BE GALVANIZED.
3. MILL FINISHED ALUMINUM WILL BECOME DISCOLORED DUE TO OXIDATION WHICH IS A NATURAL PHENOMENON & SHOULD BE EXPECTED.
4. ANODIZED ALUMINUM HANDRAIL IS 1 1/4" PIPE SIZE.
5. ALUMINUM TO CONFORM TO 2020 ALUMINUM DESIGN MANUAL.
6. WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH AWS A5.10. WELDS ARE ALL AROUND WITH TYPE 5356 FILLER METAL. O.N.O.

STRUCTURAL STEEL:

1. CODES: AISC SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS; MANUAL OF STEEL CONSTRUCTION (15TH EDITION); STRUCTURAL WELDING CODE AWS D1.1 AND AWS D1.4. PIPES SHALL BE IDENTIFIED WITH MILL IDENTIFICATION IN ACCORDANCE WITH ASTM A-53 AND TUBE SHAPES IN ACCORDANCE WITH ASTM A-500.
2. IDENTIFICATION: ROLLED STRUCTURAL STEEL SHAPES SHALL BE IDENTIFIED WITH MILL IDENTIFICATION MARKS IN CONFORMANCE WITH ASTM A6.
3. MATERIALS:
   - STRUCTURAL SHAPES
   - WIDE FLANGE..... ASTM A992/A572, Fy = Gr. 50 (Fy = 50 ksi Min.), UNO
   - CHANNELS AND ANGLES..... ASTM A529, Fy = Gr. 50 (Fy = 50 ksi Min.), UNO
   - SWAYRODS..... ASTM A529, Fy = Gr. 50 (Fy = 50 ksi Min.), UNO
   - HSS SHAPES (TUBE COLUMNS)..... ASTM A-500 GRADE B - 46 KSI
   - PLATES $\frac{3}{4}$" THICK OR LESS..... ASTM A36 Gr. 36 (Fy = 36 ksi Min.), UNO
   - PLATES GREATER THAN $\frac{3}{4}$" THICK.... ASTM A572 Gr. 50 (Fy = 50 ksi Min.), UNO
   - BOLTS..... ASTM A-307, A325N TYPICAL U.N.O (HOT DIP GALVANIZED)
   - NUTS..... HEAVY HEX (HOT DIP GALVANIZED)
   - NON-SHRINK GROUT..... ASTM C-1107 5,000 PSI (NON-METALLIC)
   - ANCHOR BOLTS..... ASTM F1554 Gr. 55 (Fy=55 ksi Min.) (HOT DIP GALVANIZED)
4. WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.1. WELDS ARE ALL AROUND WITH TYPE ER70S-6 WIRE MIG U.N.O.
5. ALL STEEL SHALL BE HOT DIP GALVANIZED TO CURRENT A.S.T.M. A-123.
6. ALL FIELD CONNECTIONS ARE NON-SLIP CRITICAL U.N.O. ALL CONNECTIONS ARE DESIGNED TO UTILIZE A307 BOLTS. IT IS ACCEPTABLE TO USE A325N BOLTS IN LIEU OF THE A307 BOLTS WITHOUT NEEDING THE TESTS AND SPECIAL INSPECTIONS FOR HIGH STRENGTH BOLTS. THE INSTALLATION OF THESE BOLTS ARE TO BE TIGHTENED A SNUG TIGHT CONDITION AS SPECIFIED BY AISC. BOLT HOLES IN STANDARD CONNECTIONS SHALL BE STANDARD WITH 1/16" OVER SIZING FROM BOLT DIAMETER AND 1/8" OVERSIZED FOR ANCHORAGE LOCATIONS.
7. SWAYROD THREADS SHALL BE PINGED WITH A HAMMER TO ELIMINATE REMOVAL OF NUT, AFTER FINAL TIGHTENING.

SHEET TITLE	PAGE #
COVER PAGE	B1 OF B5
HOME	
SECTION VIEW	B2 OF B5
SECTION VIEW	B3 OF B5
SIGHT LINES	B4 OF B5
SEATING & FOOTING LAYOUT	B5 OF B5

OWNER/REPRESENTATIVE/ARCHITECTURAL REVIEW

PLEASE REVIEW THE DRAWINGS FOR COMPLIANCE WITH YOUR ORDER. PLEASE INDICATE ANY CHANGES OR COMMENTS ON THE DRAWINGS.

☐ APPROVED

☐ APPROVED AS NOTED

☐ REVISE AND RE-SUBMIT

SIGNATURE

TITLE

DATE

AWS CWF CERTIFIED WELDING FABRICATOR®

AISC CERTIFIED FABRICATOR

Southern® BLEACHER COMPANY
GRANDSTANDS ▪ BLEACHERS ▪ STADIUMS

LICENSED ARCHITECT — LUCAS AMMERT — C 37401 — 12-31-2025 RENEWAL DATE — STATE OF CALIFORNIA

PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365

Established 1946

GENERAL INFORMATION

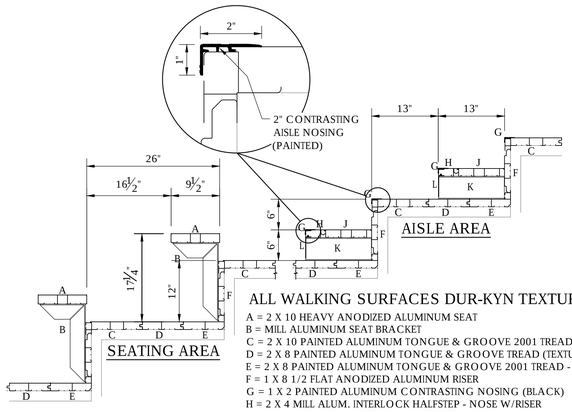
	RISE	TREAD	ROWS	LENGTH	SEAT COUNT
MITER STAND	12"	26"	11	96' +/-	1628

DATE: 03/19/2025
JOB # 24SD050R3
MOORPARK COMMUNITY COLLEGE
ANCT BLEACHERS
MOORPARK, CALIFORNIA

SHEET B1 OF B5

REF:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

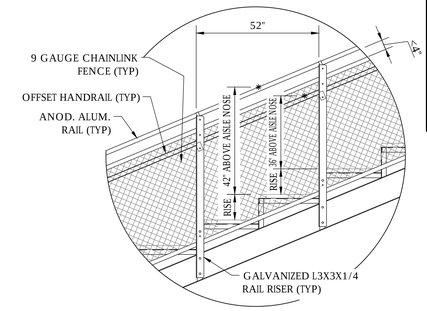


ALL WALKING SURFACES DUR-KYN TEXTURE GRAY

A = 2 X 10 HEAVY ANODIZED ALUMINUM SEAT
B = MILL ALUMINUM SEAT BRACKET
C = 2 X 10 PAINTED ALUMINUM TONGUE & GROOVE 2001 TREAD - NOSE (TEXTURE GRAY)
D = 2 X 8 PAINTED ALUMINUM TONGUE & GROOVE TREAD (TEXTURE GRAY)
E = 2 X 8 PAINTED ALUMINUM TONGUE & GROOVE 2001 TREAD - HEEL (TEXTURE GRAY)
F = 1 X 8 1/2 FLAT ANODIZED ALUMINUM RISER
G = 1 X 2 PAINTED ALUMINUM CONTRASTING NOSING (BLACK)
H = 2 X 4 MILL ALUM. INTERLOCK HALFSTEP - NOSE W/RISER
J = 2 X 9 MILL ALUM. INTERLOCK HALFSTEP - DECK
K = 4 1/2" MILL ALUMINUM HALFSTEP BRACKET
L = 4 1/2" ANODIZED ALUMINUM INTERLOCK STEP RISER

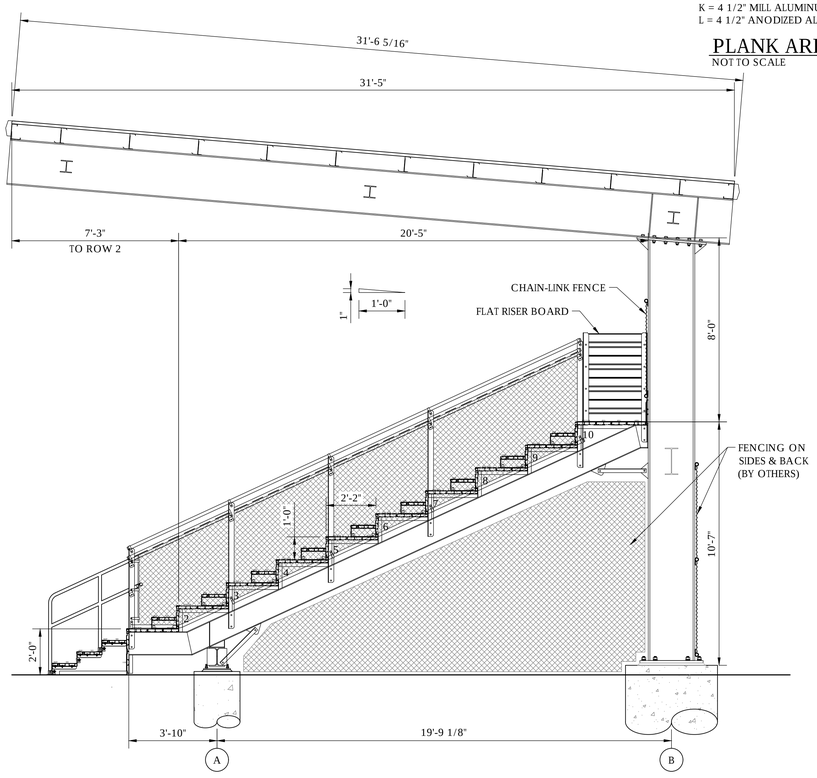
PLANK ARRANGEMENT

NOT TO SCALE 12" X 26"



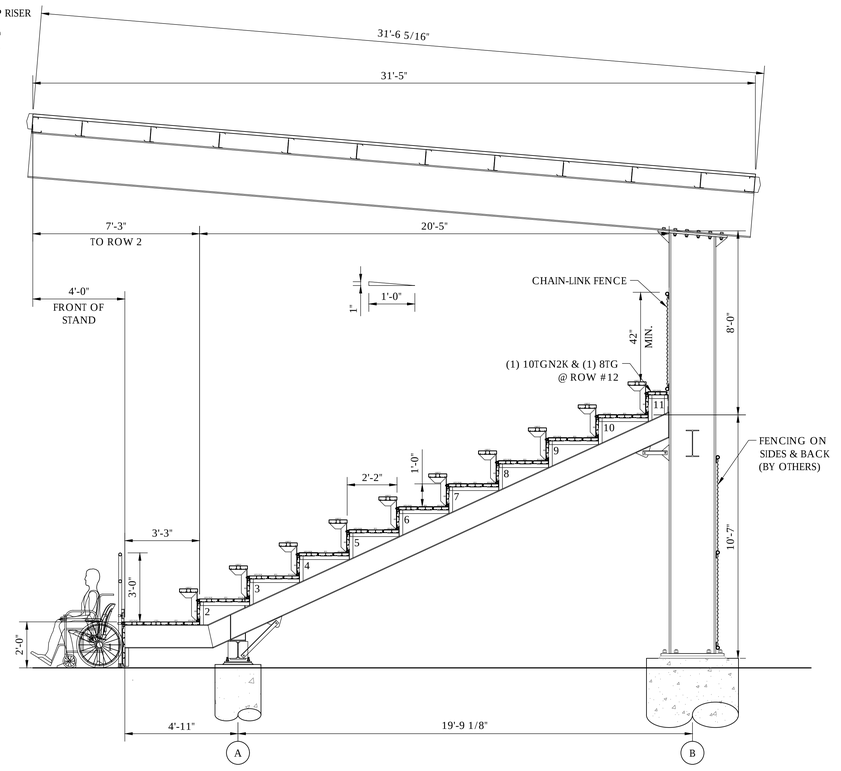
SIDE RAILING @ END AISLE

SCALE:1/2"=1'-0"



SECTION VIEW

SCALE:3/8"=1'-0"



SECTION VIEW

SCALE:3/8"=1'-0"

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Southern® BLEACHER COMPANY
GRANDSTANDS • BLEACHERS • STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

LICENSED ARCHITECT
THOMAS KIMBALL CRAWFORD
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

REV	DESCRIPTION	DATE	BY

DATE	DRAWN	CHECKED
03/19/2025	JOA	DMC

JOB NUMBER: #24SD050R3

SHEET B2 OF B5

SECTION VIEWS
12" RISE X 26" TREAD / 96" +/- (11 ROWS)

MOORPARK COMMUNITY COLLEGE
ANCT BLEACHERS
MOORPARK, CALIFORNIA

22" X 34" (1:1x17 = 1/2 indicated scale)

24SD050R3

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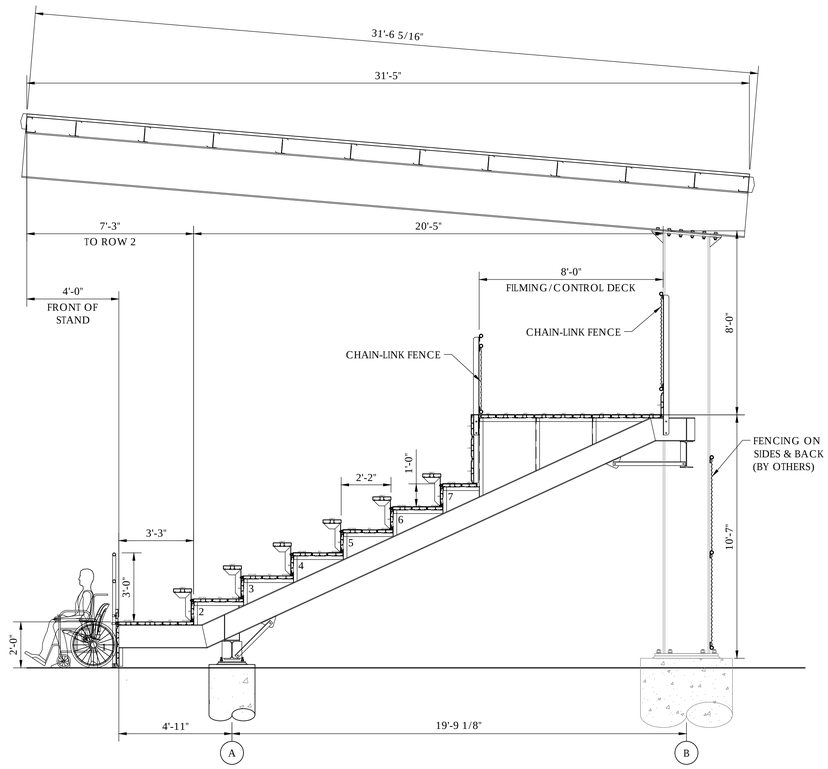
DATE: 06/19/2025



SECTION VIEW
SCALE:3/8"=1'-0"

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GRANDSTANDS • BLEACHERS • STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street
Phone: 940-549-0733 Fax: 940-549-1365
Established 1946

LICENSED ARCHITECT
THOMAS JOHNSON
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

REV	BY	DATE	DESCRIPTION

DATE	DRAWN	CHECKED
03/19/2025	JOA	DMC

JOB NUMBER
#24SD050R3

SHEET B3 OF B5

TITLE: SECTION VIEWS
12" RISE X 26' TREAD / 96' +/- (11 ROWS)

JOB: MOORPARK COMMUNITY COLLEGE
ANCT BLEACHERS
MOORPARK, CALIFORNIA

22" X 34" (11x17 = 1/2 indicated scale)

24SD050R3

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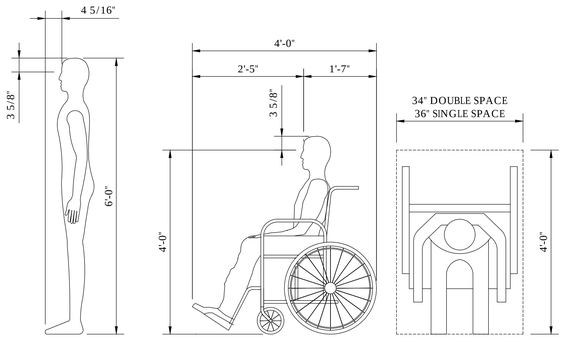
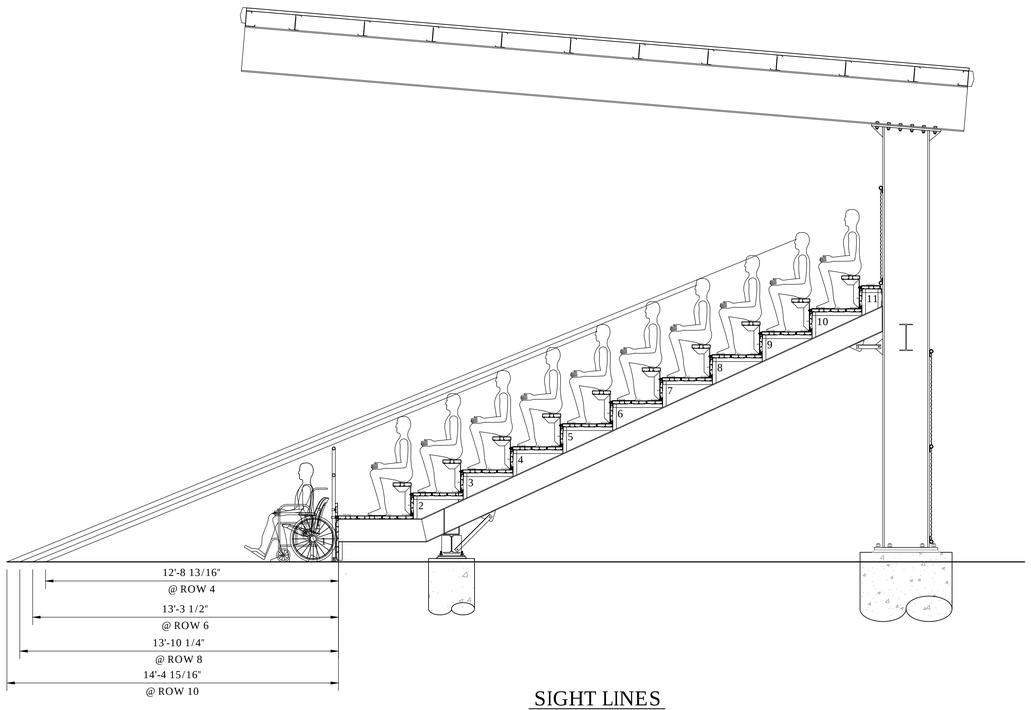


SIGHT LINE PARAMETERS

SCALE: 3/4"=1'-0"



SIGHT LINES

SCALE:3/8"=1'-0"

THIS DRAWING AND ALL INFORMATION THEREIN IS THE PROPERTY OF THE SOUTHERN BLEACHER COMPANY. DESIGN IDEAS AND CONFIDENTIAL AND MUST NOT BE MADE PUBLIC OR COPIED. THIS DRAWING IS LOANED SUBJECT TO RETURN UPON DEMAND AND, IS NOT TO BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS.

NOT FOR CONSTRUCTION

Southern® BLEACHER COMPANY
GRANDSTANDS • BLEACHERS • STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street
Phone: 940-549-0733 Fax: 940/549-1365
Established 1946

LICENSED ARCHITECT
THOMAS JOSEPH ANDRE
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE	BY
1	SIGHT LINES		
2	12" RISE X 26" TREAD / 96" +/- (11 ROWS)		

MOORPARK COMMUNITY COLLEGE
ANCT BLEACHERS
MOORPARK, CALIFORNIA

DATE	DRAWN	CHECKED
03/19/2025	JOA	DMC

JOB NUMBER #24SD050R3

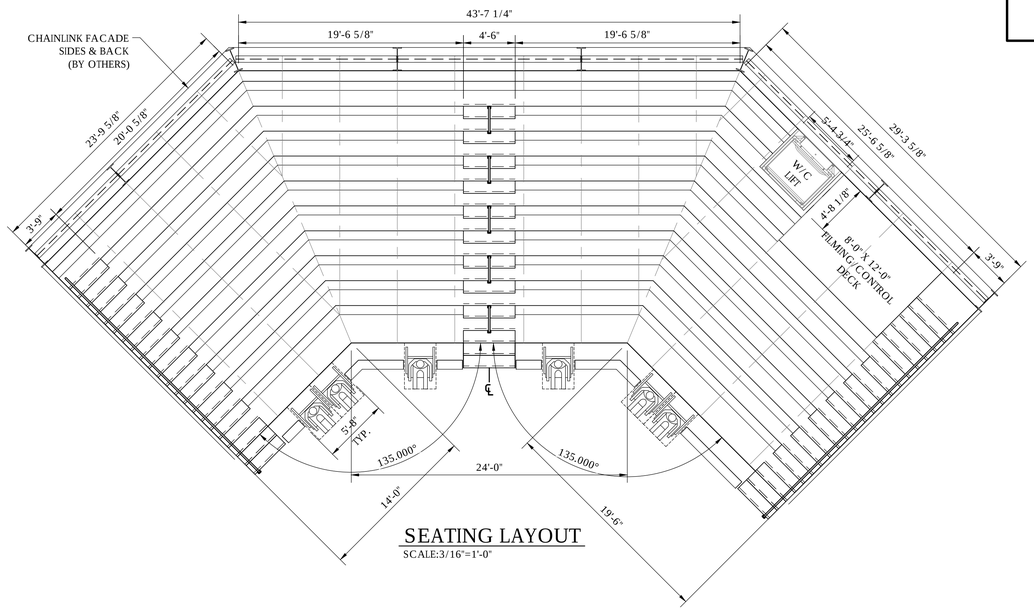
SHEET	OF
B4	B5

22" X 34" (11x17 = 1/2 indicated scale)

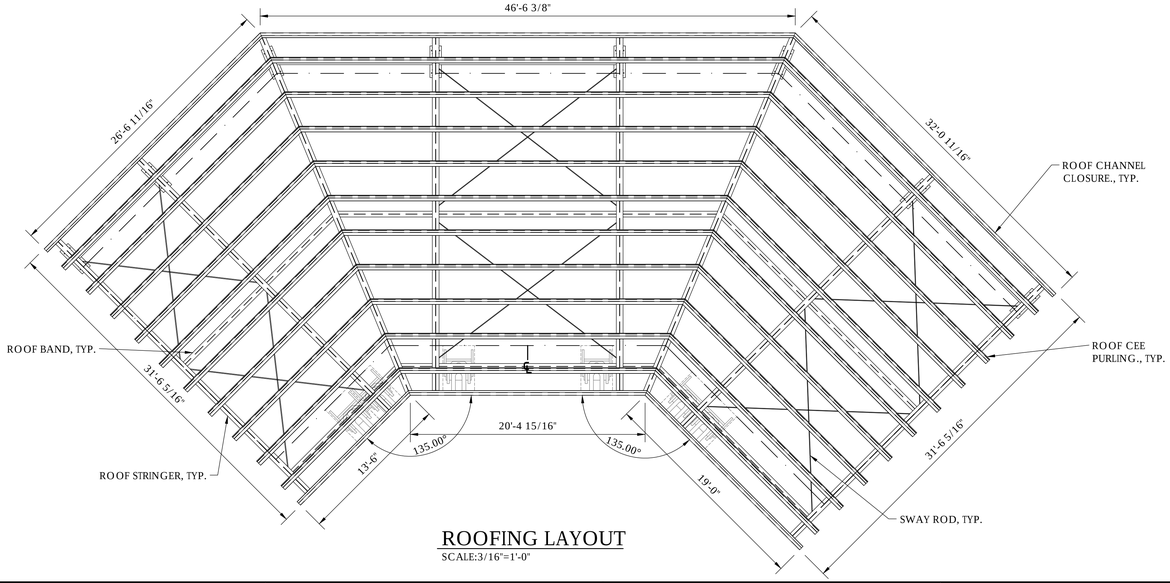
24SD050R3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

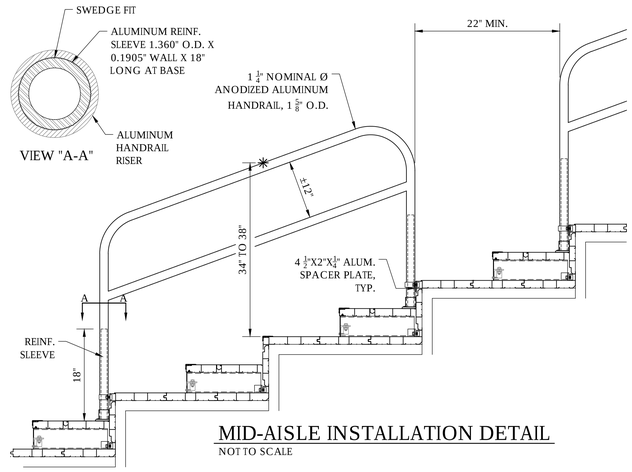
394 TOTAL NET 18" SEATS
6 TOTAL NET 33" WHEELCHAIR SPACES
400 TOTAL SEATING CAPACITY



SEATING LAYOUT
SCALE:3/16"=1'-0"



ROOFING LAYOUT
SCALE:3/16"=1'-0"



MID-AISLE INSTALLATION DETAIL
NOT TO SCALE

THIS DRAWING AND ALL INFORMATION THEREIN IS THE PROPERTY OF THE SOUTHERN BLEACHER COMPANY, INC. IS STRICTLY CONFIDENTIAL AND MUST NOT BE MADE PUBLIC OR COPIED. THIS DRAWING IS LOANED SUBJECT TO RETURN UPON DEMAND AND, IS NOT TO BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS.

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PO Box One, Graham, Texas 76450
801 Fifth Street
Phone: 940-549-0733 Fax: 940-549-1365
Established 1946

LICENSED ARCHITECT
THOMAS A. MAWSON
C 37401
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE	BY
	SEATING & ROOF LAYOUT		
	12" RISE X 26" TREAD / 96" +/- (11 ROWS)		

MOORPARK COMMUNITY COLLEGE
ANCT BLEACHERS
MOORPARK, CALIFORNIA

DATE	DRAWN	CHECKED
03/19/2025	JOA	DMC

JOB NUMBER: #24SD050R3

SHEET B5 OF B5

22" X 34" (11x17 = 1/2 indicated scale)

24SD050R3

GENERAL NOTES

1. ALL DIMENSIONS, CONDITIONS AND ELEVATIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK OR FABRICATION. IF ANY DISCREPANCIES ARE FOUND OR IF ANY CONDITION EXISTS NOT AS SHOWN ON THE DRAWINGS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

2. THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ENGINEER, AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO ARISE FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS.

3. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.

4. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE.

5. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER OR HIS REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER OF MATERIAL OR WORK AND WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATION, BUT THEY DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

6. ANY CHANGES TO THE APPROVED SET OF PLANS WITHOUT NOTIFYING THE ENGINEER PRIOR TO SUCH CHANGES ABSOLVES SAID ENGINEER FROM ANY AND ALL RESPONSIBILITY WITH RESPECT TO LIABILITY, DAMAGE OR EXTRA WORK RESULTING FROM SAID CHANGES.

7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.

8. THE TYPICAL DETAILS SHOWN ON THESE SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.

9. DESIGN LOADS: RISK CATEGORY II OR RISK CATEGORY III
ROOF LIVE LOAD: 20 PSF REDUCIBLE ROOF DEAD LOAD: 3 PSF
SNOW LOAD: $P_g = P_f = 20$ PSF & 30.0 PSF $C_e = 1.1$ $C_t = 1.2$ $C_s = 1.0$
$I_s = 1.0$ RISK CATEGORY II $I_s = 1.1$ RISK CATEGORY III ICE LOAD = 0 PSF

SEISMIC: $I_E = 1.0$ AT RISK CATEGORY II OR $I_E = 1.25$ AT RISK CATEGORY III

SEISMIC DESIGN CATEGORY = E $\rho = 1.0$

STRUCTURE IS A STEEL ORDINARY CANTILEVERED COLUMN SYSTEM (G2 PER ASCE7-16)
R = 1.25/0.7 (FOR WORKING STRESS)
C_d = 1.25 C_d = 1.25
SOIL SITE CLASS = D
FOR 12.5' COLUMN HEIGHT T = 0.49
T > 0.5 SEC. FOR COLUMN HEIGHTS > 12.5'

BASE SHEAR: V = ρ x C_S x W
RISK CATEGORY II V = 0.56W (ASD) FOR S_{DS} = 1.0
RISK CATEGORY II V = 0.69W (ASD) FOR S_{DS} = 1.75
RISK CATEGORY III V = 0.70W (ASD) FOR S_{DS} = 1.00
RISK CATEGORY III V = 1.75W (ASD) FOR S_{DS} = 2.5

WIND LOAD: 110 MPH, EXPOSURE C RISK CATEGORY II OR RISK CATEGORY III
Kd = 0.85 Kz = 0.90 Kzt = 1.0 Kh = 1.00

qh = 14.33 (qh = 0.00256 x Kz x Kzt x V^2 x 0.6 (FOR WORKING STRESS)) STRUCTURE IS DESIGNED FOR CLEAR & OBSTRUCTURED WIND FLOW.
MAXIMUM BASIC WIND LOAD FOR PROJECT LOCATED IN SPECIAL WIND REGIONS SHALL BE EQUAL TO OR LESS THAN 135 mph AND CONFORM WITH THE ADOPTED ORDINANCE OF THE CITY, COUNTY OR CITY AND COUNTY IN WHICH THE PROJECT SITE IS LOCATED AND SHALL BE APPROVED BY DSA-SS.

10. GOVERNING CODE: 2022 CBC

11. ALLOWABLE SOIL BEARING IS BASED ON 1500 PSF & 100 PCF×2 PASSIVE PRESSURE PER CBC TABLE 1806A.2 & SECTION 1806A.3.4. SKIN FRICTION IS PER 1810A.3.3.1.4 & IS EQUAL TO 1500/5=300 PSF. FOR UPLIFT SKIN FRICTION SHALL BE 125 PSF (S.F. OF 2). 1/3 INCREASE NOT USED FOR ANY SOIL VALUES.

12. ALL WORK TO BE PERFORMED UNDER THE CONTINUOUS INSPECTION OF A D.S.A. APPROVED INSPECTOR.

13. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

14. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND THE ENGINEER.

15. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

FOUNDATION NOTES

1. ALL FOOTINGS SHALL EXTEND TO FIRM BEARING IN UNDISTUBED SOIL OR ENGINEERED FILL.

2. NOMINAL TOP OF FLOOR SLAB ELEVATION = DATUM +0'-0" UNLESS OTHERWISE NOTED.

3. ANY EXISTING FILL AT THE BUILDING PAD SHALL MEET THE 92% COMPACTION REQUIREMENTS. ALL ORGANIC MATERIAL, RUBBLE, OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE.

4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR WALKWAYS.

5. ALL REINFORCING STEEL, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED IN THE FORMS PRIOR TO POURING OF CONCRETE.

6. SHORING AND BRACING: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORM WORK AS REQUIRED FOR THE CONSTRUCTION OF THIS BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS ELEMENTS IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

7. EXCAVATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

8. BACKFILL: DO NOT BACKFILL AROUND THE EXTERIOR PERIMETER WALL UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. IF THE FLOOR SLABS ARE CONCRETE, DO NOT BACKFILL UNTIL 7 DAYS MINIMUM AFTER COMPLETION OF THE FLOOR SLABS. DO NOT BACKFILL UNTIL AFTER COMPLETION AND INSPECTION OF DAMP-PROOFING.

CONCRETE NOTES

1. ALL MOLDS, ORNAMENTS, GROOVES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.

2. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER EMBEDS SHALL BE IN PLACE AND SECURED TO FORM WORK PRIOR TO POURING OF CONCRETE.

3. REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF PLUMBING FIXTURES.

4. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE WALLS OR STRUCTURAL SLABS UNLESS SPECIFICALLY DETAILED.

5. CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRANSFER OF SHEAR AND OTHER FORCES THROUGHOUT THE JOINTS. THE CONTRACTOR SHALL OBTAIN THE ARCHITECTS APPROVAL OF CONSTRUCTION JOINT LOCATION IN ALL STRUCTURAL SLAB, BEAMS AND SHEAR WALLS.

6. SIDES OF FOOTINGS MAY BE POURED AGAINST STABLE EARTH.

7. THE QUALITY AND DESIGN OF CONCRETE SHALL COMPLY WITH TITLE 24 PART 2 EXCEPT ITEMS NOT SPECIFICALLY ADDRESSED THEREIN SHALL CONFORM TO ACI 318.

8. ALL REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615.

A. #4 BARS AND SMALLER..... GRADE 40 OR 60
B. #5 BARS AND LARGER.....GRADE 60
C. SEPARATE BARS 1-1/2 DIAMETERS CLEAR OR 1-1/2" CLEAR, WHICHEVER IS LARGER.

9. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
CAST AGAINST EARTH (EXCEPT SLABS ON GRADE).....3"
SLABS ON GRADE.....1-1/2"
EXPOSED TO EARTH OR WEATHER
#5 BARS AND SMALLER.....1-1/2"
#6 BARS AND LARGER.....2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
SLABS, WALLS, JOISTS
#11 BARS AND SMALLER.....3/4"
#14 AND #18 BARS.....1-1/2"
BEAMS, GIRDERS, COLUMNS
PRINCIPAL REINFORCING, TIES
STIRRUPS, OR SPIRALS.....1-1/2"
SHELLS AND FOLDED PLATE MEMBERS
#5 BARS AND SMALLER.....1/2"
#6 BARS AND LARGER.....3/4"

10. CONCRETE SHALL HAVE FOLLOWING MINIMUM REQUIREMENTS FOR THE FOLLOWING EXPOSURE CATEGORIES & CLASSES:
F0– 3000 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.5.
F2– 4500 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.45 & VERIFY COMPLIANCE W/ ACI TABLE 19.3.3.1.

11. THE ENGINEER DOES NOT PROVIDE CONTRACT ADMINISTRATION FOR THE PROJECT, INCLUDING REVIEW OF CONCRETE MIXES.

12. PER ACI SECTION 19.3.2.1, FOOTING SHALL NOT BE EXPOSED TO FREEZING AND THAWING CYCLES, SHALL NOT BE EXPOSED TO WATER-SOLUBLE SULFATE IN SOIL BY PERCENT OF MASS 20.10%, SHALL NOT BE EXPOSED TO EXTERNAL SOURCE OF CHLORIDES.

13. CEMENT SHALL COMPLY W/ ASTM C150 AND AGGREGATE SHALL COMPLY W/ ASTM C33.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL EXCEPT W SHAPES SHALL CONFORM TO ASTM A-36 AND SHALL BE FABRICATED AND ERECTED AS PER AISC SPECIFICATIONS FOR BUILDINGS. W SHAPES SHALL CONFORM TO ASTM A992.

2. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE "B" AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500 GRADE "B", F_y=46KSI.

3. ALL LIGHT GAGE STEEL TO CONFORM TO ASTM A653 GRADE 55 FOR ALL STRUCTURAL SHAPES, A653 GRADE 33 FOR ALL BLOCKING, FLASHINGS, MISCELLANEOUS CONNECTION PLATES, AND ANGLES.

4. ALL UNFINISHED BOLTS SHALL BE ASTM A-307 UNLESS NOTED OTHERWISE.

5. USE AISC USUAL GAGES FOR BOLT HOLES IN ALL STEEL SECTIONS UNLESS OTHERWISE NOTED.

6. THE STEEL FABRICATOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ERECTION.

7. ALL BOLT HOLES ARE TO BE 1/16" OVERSIZED. ALL BOLTS SHALL HAVE WASHERS INSTALLED UNDER BOTH HEAD & NUT. SELF DRILLING SCREWS SHALL BE PER ESR-1976 OR EQUAL.

8. ALL STEEL SHALL BE PROTECTED FROM WEATHER AS FOLLOWS: STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153, CLASS D) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD-FORMED STEEL MEMBERS SHALL BE G90 ALUMINUM-ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION.

ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM), OR PROTECTED WITH CORROSION-PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT. (EXAMPLE PROPRIETARY COATINGS THAT DO COMPLY WITH THE 1,000 HOUR REQUIREMENT INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: QUIK GUARD BY SIMPSON, KWIK-COTE BY HILTI, STALGARD BY ELCO, VISTACORR BY SFS INTEC, ETC.)

GOVERNING CODES:

1. 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
2. 2022 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2 (PART 2, TITLE 24, CCR).
3. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
4. 2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR).

NOTES

1. COVERS ARE NOT DESIGNED TO BE ENCLOSED OR FOR STORAGE OF COMBUSTIBLE MATERIALS.
2. WALKWAY COVER HAS BEEN CHECKED FOR CLEAR & OBSTRUCTED WIND FLOW CONDITION & CAN BE WITHIN 6" MIN. FROM AN EXISTING BUILDING.
3. WALKWAY PIER FOOTING HAS BEEN CHECKED FOR D.S.A. BULLETIN 09-06 REV..
4. ALL WORK SHALL COMPLY WITH C.F.C. CHAPTER 33 DURING CONSTRUCTION.

TESTING & INSPECTIONS REQUIRMENTS

1. INSPECTOR CLASS (MINIMUM REQUIREMENTS)
CLASS 2
2. SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY
BY THE SCHOOL DISTRICT AND APPROVED BY D.S.A., A/E OF RECORD AND STRUCTURAL ENGINEER
3. COST OF THE PROJECT INSPECTOR (CA ADMIN. CODE 4-333(B) AND TESTING AGENCY (CA ADMIN. CODE 4-335)
BY THE SCHOOL DISTRICT
4. COPIES OF THE REPORT TO
ARCHITECT; STRUCTURAL ENGINEER; SCHOOL DISTRICT; D.S.A. (ORIGINAL); IOR; MANUFACTURER

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316 (D & E) OF THE CALIFORNIA CODE OF REGULATIONS, THE DISTRICT SHALL HIRE AN ARCHITECT OR STRUCTURAL ENGINEER TO BE IN GENERAL RESPONSIBLE CHARGE OF SITE SPECIFIC PROJECT.
2. FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR A PORTION OF THE PROJECT AS DESIGNED BY THE ARCHITECT FOR INCORPORATION INTO THE PROJECT.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GERARD HOMER & ASSOCIATES RESPONSIBILITY FOR SITE SPECIFIC PROJECT.

SHADE STRUCTURE TESTING & INSPECTION GUIDELINE

THE DSA-103 GUIDELINES SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

DSA 103-22 LIST OF STRUCTURAL TESTS & SPECIAL INSPECTIONS – 2022 CBC

IMPORTANT: THIS FORM IS ONLY A SUMMARY LIST OF STRUCTURAL TESTS AND SOME OF THE SPECIAL INSPECTIONS REQUIRED FOR THE PROJECT. GENERALLY, THE STRUCTURAL TESTS AND INSPECTIONS NOTED ON THIS FORM ARE THOSE THAT WILL BE PERFORMED BY THE GEOTECHNICAL ENGINEER OR RECORD LABORATORY OF RECORD, OR SPECIAL INSPECTOR. THE ACTUAL COMPLETE TEST AND INSPECTION PROGRAM MUST BE PERFORMED AS DETAILED ON THE DSA APPROVED DOCUMENTS. THE APPROVAL AT THE BOTTOM OF THIS FORM CONSTITUTES ONLY NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING. THE PROJECT INSPECTOR IS RESPONSIBLE FOR PROVIDING INSPECTION OF ALL FACETS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, STEEL, INSPECTIONS NOT LISTED ON THIS FORM SUCH AS: WELDING, HIGH-STRENGTH BOLTING, ANCHORAGE OF NON-STRUCTURAL COMPONENTS, ETC., PER TITLE 24, PART 2, CHAPTER 17A (2022 CBC).

**NOTE: UNDEFINED SECTION & TABLE REFERENCES FOUND IN THIS DOCUMENT ARE FROM THE CBC, OR CALIFORNIA BUILDING CODE.

NOTE: REFERENCES ARE TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) UNLESS OTHERWISE NOTED.

TEST OR SPECIAL INSPECTION
SOILS
S1. GENERAL:
e. VERIFY THAT: SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF CONTROLLED FILL AND/OR EXCAVATIONS FOR FOUNDATIONS. FOUNDATION EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS);
e. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER.
b. VERIFY PIER LOCATIONS, DIAMETERS, PLUMBNESS & LENGTHS. RECORD CONCRETE OR GROUT VOLUMES.
c. CONCRETE PIERS
CONCRETE
C1. CAST IN PLACE CONCRETE
MATERIAL VERIFICATION AND TESTING:
a. VERIFY USE OF REQUIRED DESIGN MIX.
b. IDENTIFY, SAMPLE & TEST REINFORCING STEEL.
c. DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, SLUMP & AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
d. TEST CONCRETE (COMPRESSION), f'c
e. BATCH PLANT INSPECTION – PERIODIC, DESIGN COMPLIES WITH 1705A.3.3.1 ITEM 2.
STEEL
S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL & ALUMINUM USED FOR STRUCTURAL PURPOSES
MATERIAL VERIFICATION & TESTING:
a. VERIFY IDENTIFICATION OF ALL MATERIALS AND: – MILL CERTIFICATES INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS. – MATERIAL SIZES, TYPES AND GRADES COMPLY WITH REQUIREMENTS.
b. TEST UNIDENTIFIED MATERIALS
c. EXAMINE SEAM WELDS OF HSS SHAPES
INSPECTION:
d. VERIFY AND DOCUMENT STEEL FABRICATION PER DSA-APPROVED CONSTRUCTION DOCUMENTS.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO APPROVAL OF INSPECTION QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORTS FOR COMPLETED WORK. GERARD HOMER & ASSOCIATES SHALL NOT BE LISTED ON THE DSA 1 OR BE REQUIRED TO SIGN A DSA 1.DEL.
6. GERARD HOMER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER OF THE PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.
7. THE ARCHITECT OR DSA SHALL NOT ADD TO OR CHANGE THIS PC WITHOUT PERMISSION FROM GERARD HOMER & ASSOCIATES.

SHEET INDEX

S1 GENERAL NOTES, SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET, OPTIONS TABLE & SITE SPECIFIC INFORMATION TABLE
S2 FOUNDATION PLAN, ROOF FRAMING PLAN, SECTION, DETAILS
S3 TABLES & DETAILS

BUILDING DATA

A-2 FOR LUNCH SHELTER
A-3 OCCUPANCY FOR GENERAL ASSEMBLY
II-B CONSTRUCTION
ALLOW. AREA = 9500 SQ.FT.
HEIGHT = 8'-0" MIN. TO 16'-0" MAX. COLUMN HEIGHT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER GERARD HOMER EXP. 3-31-24 52373 STRUCTURAL STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT
CODE: 2022 C.B.C.
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

PROJECT:
SINGLE SLOPE (DOUBLE POST) SCHOOL LUNCH SHELTER
VALLEY SCHOOL SHELTERS

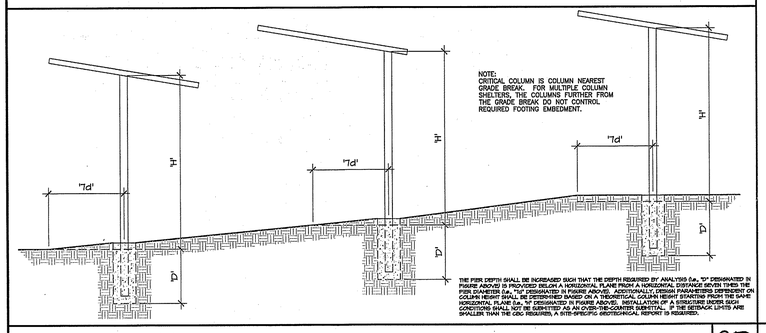
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124777 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ OS ☑
DATE: 9/25/2023

Gerard Homer and Associates
STRUCTURAL ENGINEERS
16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
PH: (559) 734-6675
Email: ghomersse@gmail.com

DWN BY: B.S.H.	CHKD BY: G.B.H.
DATE: 9/20/23	
PROJECT NO: 23014 24SS42 24LG2	
DRAWING TITLE	
GENERAL NOTES SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET OPTIONS TABLE & SITE SPECIFIC INFORMATION TABLE	
SHEET NUMBER	
S1	
OF 3 SHEETS	

NOTES FOR ACHITECT TO VERIFY & COMPLY

1. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY.
2. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 336(C) PART 1, TITLE 24 CCR.
3. LOCATION OF ELECTRICAL COMPONENTS MOUNTED TO COLUMNS SHALL COMPLY WITH ASCE 24-14, SECTION 7.2.
4. THE ARCHITECT SHALL VERIFY COMPLIANCE W/ RD/S1 (IR PC-7, SECTION 5.8) IF COVER IS NEAR A SLOPE AND NOTIFY THE F.C. ENGINEER. IF COVER IS NEAR A SLOPE, THE INSTALLATION OF THIS STRUCTURE SHALL NOT BE SUBMITTED AS OVER-THE-COUNTER.



NOTE:
CRITICAL COLUMN IS COLUMN NEAREST GRADE BREAK. FOR MULTIPLE COLUMN SHELTERS, THE COLUMNS FURTHER FROM THE GRADE BREAK DO NOT CONTROL REQUIRED FOOTING EMBEDMENT.

THE PIER DEPTH SHALL BE INCREASED SUCH THAT THE DEPTH REQUIRED BY ANALYSIS (i.e., "D" DESIGNATED IN FIGURE ABOVE) IS PROVIDED BELOW A HORIZONTAL PLANE FROM A HORIZONTAL DISTANCE SIX (6) TIMES THE DIAMETER OF THE PIER (i.e., "7d" DESIGNATED IN FIGURE ABOVE) MEASURED FROM THE SURFACE OF EARTH ON COLUMN HEIGHT SHALL BE DETERMINED BASED ON A THEORETICAL COLUMN HEIGHT STARTING FROM THE SAME HORIZONTAL PLANE (i.e., "H" DESIGNATED IN FIGURE ABOVE). INSTALLATION OF A STRUCTURE UNDER SUCH CONDITIONS SHALL NOT BE SUBMITTED AS AN-OVER-THE-COUNTER SUBMITTAL. IF THE SETBACK LIMITS ARE SMALLER THAN THE CBC REQUIRES, A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED.

SLOPED SITE FIGURE — SCALE: NONE — 8D

SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET — 4K

SINGLE SLOPE LUNCH SHELTER OPTIONS TABLE

ROOF PANEL OPTION	3 P.S.F. MISCELLANEOUS DEAD LOAD
☐ ABP SPAN HR-36	
☒ McELROY MEGA-RIB	☒ YES ☐ NO

NUMBER OF BAYS			
☐ ONE	☐ THREE	☒ FIVE	
☐ TWO	☐ FOUR	☐ SIX	

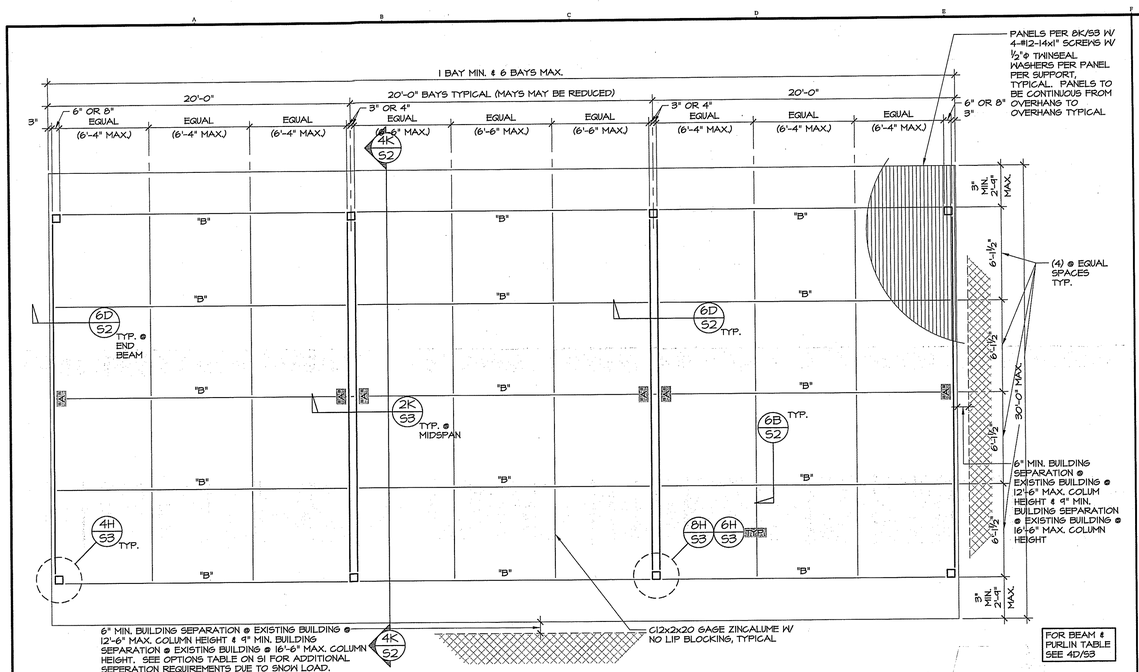
LOADING	WIND SPEED (1)			SEISMIC	MAXIMUM COLUMN HEIGHT
☐ 20 PSF SL	M.P.H.	R.C.	PITCH		
☐ 20 PSF SL	≤ 116	II	1.5 IN 12 OR LESS	LOWER SEISMIC $S_{DS} \leq 1.0$	12'-6"
☐ 30 PSF SL	≤ 129	II	1 IN 12 MAX.	HIGHER SEISMIC $S_{DS} \leq 1.75$	14'-6"
	≤ 121	III	0.5 IN 12 MAX.	LOWER SEISMIC R.C. III $S_{DS} \leq 1.00$	16'-6"
	☒ ≤ 138	III	1.5 IN 12 OR LESS	HIGHER SEISMIC R.C. III $S_{DS} \leq 2.5$	

R.C. II $S_{DS} > 1.75$ REDUCE BAY SPACING
R.C. III $S_{DS} > 2.5$ REDUCE BAY SPACING

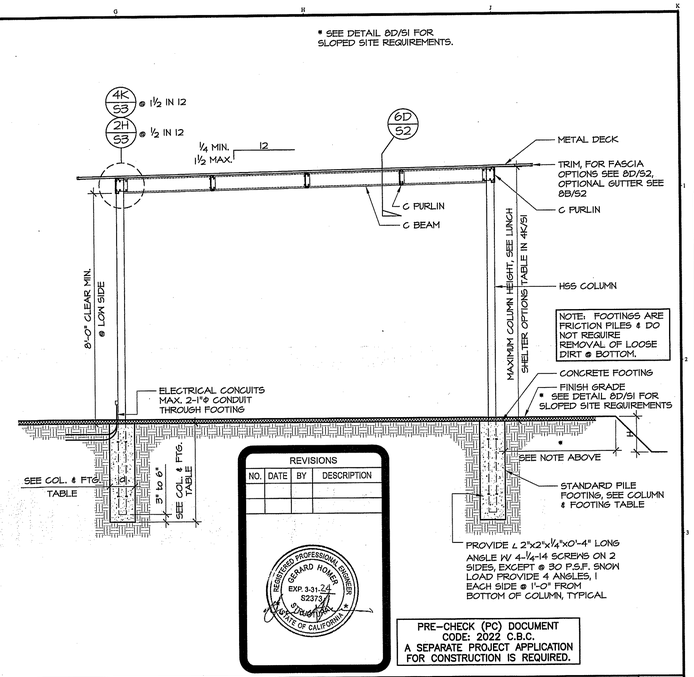
NOTES
SEE SK/S9 FOR ROOF DECK PROFILES & SECTION PROPERTIES. ALL PANELS CAN BE USED WITH ALL LOADING OPTIONS.
1. ROOF FRAMING MEMBERS DEPENDENT ON WIND SPEED, RISK CATEGORY AND PITCH. THE MORE WIND SPEED, THE LESS PITCH IS ALLOWED AT RISK CATEGORY II ROOF FRAMING. ROOF FRAMING MEMBERS AT RISK CATEGORY III DESIGNED FOR BOTH MAX. WIND LOAD AND PITCH.
2. 30 PSF FRAMING REQUIRED W/ 9 P.S.F. OPTIONAL MISC. DEAD LOAD + 20 P.S.F. LL OR SNOW LOAD.
3. 9 P.S.F. OPTIONAL MISC. DEAD LOAD NOT ALLOWED WITH 30 P.S.F. SNOW LOAD.
4. FOR SNOW LOAD: IF THE HORIZONTAL SEPARATION DISTANCE BETWEEN ADJACENT STRUCTURES, e, IS LESS THAN 20 FT. (6.1 M) AND LESS THAN SIX TIMES THE VERTICAL SEPARATION DISTANCE (w6h), THEN THE REQUIREMENTS FOR THE LEEWARD DRIFT OF SECTION 7.7.1 SHALL BE USED TO DETERMINE THE DRIFT LOAD ON THE LOWER STRUCTURE. IF THE SNOW DRIFT ANALYSIS IS REQUIRED IT SHALL BE PROVIDED BY THE PC APPLICANT & THE SITE APPLICATION IS NOT ELIGIBLE FOR OVER THE COUNTER SUBMITTAL.
5. MISC. DEAD LOAD CAN INCLUDE SPRINKLERS OR SOLAR PANELS. BOTH ARE NOT ELIGIBLE FOR OVER THE COUNTER PLAN CHECK. LOADS CAN NOT BE SUPPORTED BY THE ROOF PANELS, ONLY THE BEAMS & PURLINS CAN SUPPORT MISC. DEAD LOADS.

SITE SPECIFIC INFORMATION TABLE

1.991	SEISMIC COEFFICIENT, Ss	1.1	~~SEISMIC COEFFICIENT, Sds~~	SELECT OCCUPANT LOAD FACTOR (OLF)	HIGH SEISMIC DESIGN ADJUSTMENT
0.731	SEISMIC COEFFICIENT, S1 ②	100	WIND SPEED (3 SEC. GUST) ❶ MPH	☒ ASSEMBLY–CONCENTRATED (CHAIRS NON–FIXED) 7 S.F./OCCUPANT	FOR RISK CATEGORY II WITH S_{DS} > 1.75
1.2	SEISMIC COEFFICIENT, Fa	C	WIND EXPOSURE CATEGORY	☐ ASSEMBLY–NONCONCENTRATED (FIXED TABLES & CHAIRS) 15 S.F./OCCUPANT	20' BAYS x 1.75 / ACTUAL S_{DS} = ☐ MAXIMUM BAY SPACING IN FEET ***
1.7	SEISMIC COEFFICIENT, Fv	30	WIDTH OF COVER AREA IN FT.	129 DETERMINE OCCUPANT LOAD = AREA/OLF	
2.389	SEISMIC COEFFICIENT, Sms	100	LENGTH OF COVERED AREA IN FT.	DETERMINE RISK CATEGORY	FOR RISK CATEGORY III WITH I_E = 1.25 & S_{DS} > 2.5
1.864	SEISMIC COEFFICIENT, Sm1 ①	3000	AREA IN SQ. FT.	RISK CATEGORY II OCCUPANTS ≤ 300	20' BAYS x 2.5 / ACTUAL S_{DS} x 1.25 = ☐ MAXIMUM BAY SPACING IN FEET ***



ROOF FRAMING PLAN — SCALE ¼" = 1'-0" — 4F



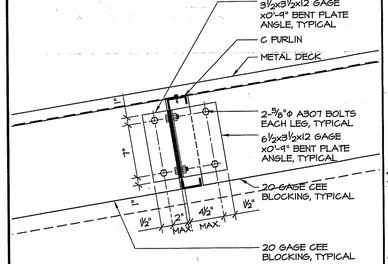
REVISIONS

NO.	DATE	BY	DESCRIPTION

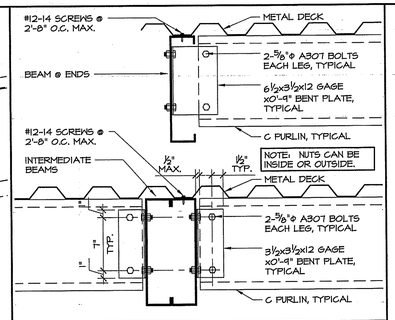
REGISTERED PROFESSIONAL ENGINEER — GERARD HOMER — EXP. 3-31-24 — 52373 — STRUCTURAL — STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT CODE: 2022 C.B.C. A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

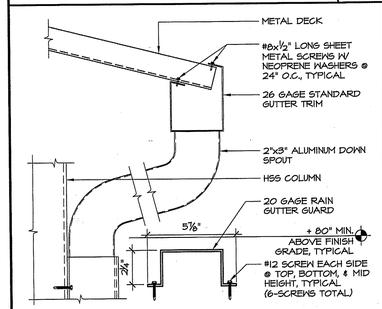
SECTION — SCALE ¼" = 1'-0" — 4K



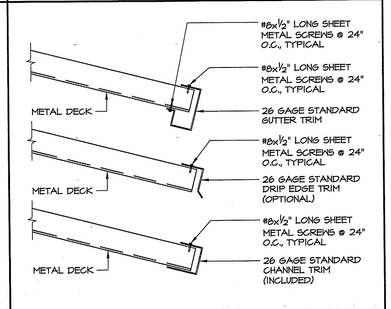
BLOCKING TO PURLIN — SCALE 1½" = 1'-0" — 6B



PURLIN TO BEAM — SCALE 1½" = 1'-0" — 6D

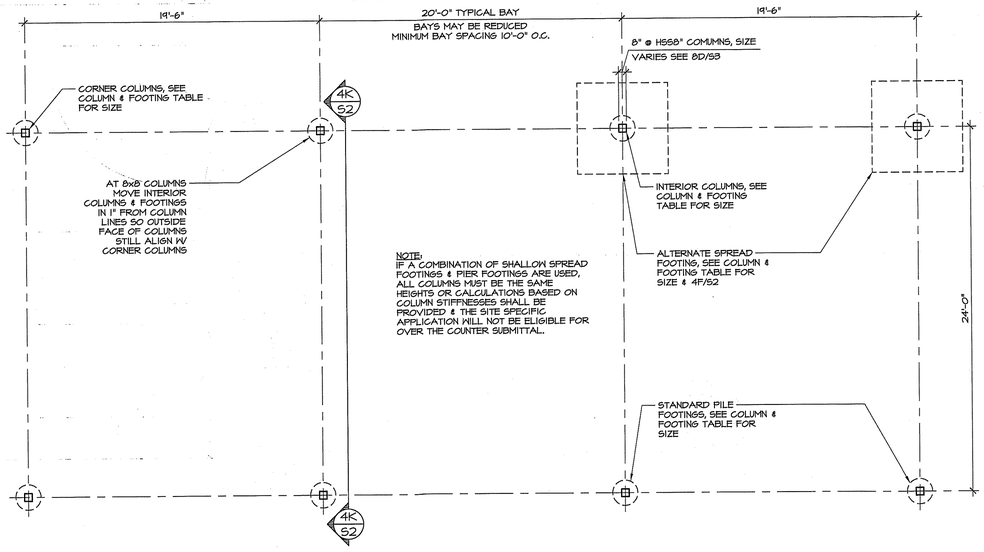


BOX GUTTER — SCALE 3" = 1'-0" — 8B



FASCIA OPTIONS — SCALE 3" = 1'-0" — 8D

SEE SITE SPECIFIC TABLE FOR MAX. BAY SPACING IN HIGH SEISMIC AREAS. MINIMUM BAY SPACING IS 10'-0". MINIMUM PIER SPACING IS 3 DIAMETERS PER CBC 1810A2.5.



NOTE:
IF A COMBINATION OF SHALLOW SPREAD FOOTINGS & PIER FOOTINGS ARE USED, ALL COLUMNS MUST BE THE SAME HEIGHTS OR CALCULATIONS BASED ON COLUMN STIFFNESSES SHALL BE PROVIDED & THE SITE SPECIFIC APPLICATION WILL NOT BE ELIGIBLE FOR OVER THE COUNTER SUBMITTAL.

FOUNDATION PLAN — SCALE ¼" = 1'-0" — 8K

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

PROJECT:
SINGLE SLOPE (DOUBLE POST) SCHOOL LUNCH SHELTER
VALLEY SCHOOL SHELTERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121477 CPC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CGS ☐
DEPARTMENT OF GENERAL SERVICES
DATE: 9/25/2023

16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
Gerard Homer and Associates
STRUCTURAL ENGINEERS
PH.: (559) 734-8675
Email: ghomerse@gmail.com

DWN BY: B.G.H.	CHKD BY: G.B.H.
DATE: 9/20/23	
PROJECT NO: 23014 24-168	

DRAWING TITLE
FOUNDATION PLAN
ROOF FRAMING PLAN
SECTION
DETAILS

SHEET NUMBER
S2
OF 3 SHEETS

BEAM & PURLIN TABLE

(RISK CATEGORY)	LOADNG	BEAM "A"	PURLIN "B"
(RISK CATEGORY II) SEE NOTE 3	20 PSF LL/SL	C18x3x12 GAGE	C12x2½x14 GAGE
	30 PSF SL	C18x3x10 GAGE	C12x2½x12 GAGE
(RISK CATEGORY III) SEE NOTE 3	20 PSF LL/SL	C18x3x12 GAGE	C12x2½x12 GAGE
	30 PSF SL	C18x3x10 GAGE	C12x2½x12 GAGE

NOTES:

1. RISK CATEGORY IS PER CBC 1604A.5.
2. SEE 8K/S3 FOR SECTION PROPERTIES OF BEAMS.
3. SEE SITE SPECIFIC TABLE TO DETERMINE RISK CATEGORY.

BEAM & PURLIN TABLE 4D

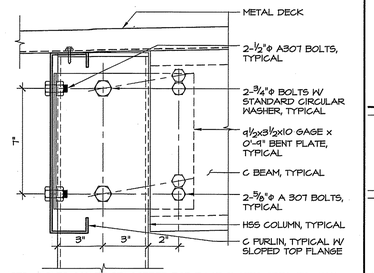
REVISIONS

NO.	DATE	BY	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER GERARD HOMER EXP. 3-31-24 STATE OF CALIFORNIA

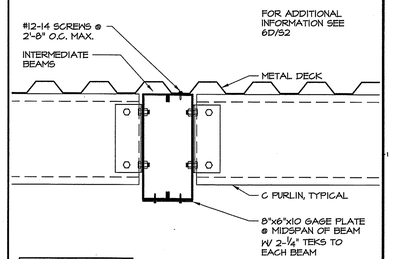
PRE-CHECK (PC) DOCUMENT
CODE: 2022 C.B.C.
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED.

STAMPS 4F



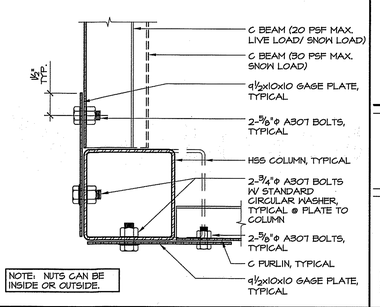
NOTE: HOLES CAN BE STAGGERED FOR ROOF SLOPES GREATER THAN ¾ IN 12 SLOPE.

BEAM TO COLUMN SCALE 3" = 1'-0" 2H



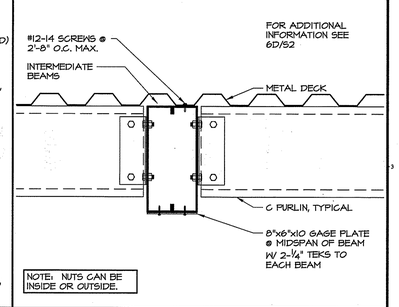
NOTE: NUTS CAN BE INSIDE OR OUTSIDE.

BEAM TIE @ MIDSPAN SCALE 1½" = 1'-0" 2K



NOTE: NUTS CAN BE INSIDE OR OUTSIDE.

BEAM TO COLUMN @ CORNER SCALE 3" = 1'-0" 4H



NOTE: NUTS CAN BE INSIDE OR OUTSIDE.

BEAM TO COLUMN SCALE 1½" = 1'-0" 4K

PROJECT:
SINGLE SLOPE (DOUBLE POST) SCHOOL LUNCH SHELTER VALLEY SCHOOL SHELTERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124777 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/19/2025

COLUMN & FOOTING TABLE

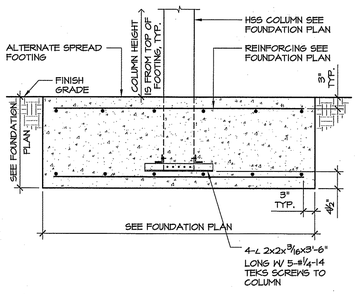
(RISK CATEGORY)	COLUMN HEIGHT	LOADING	LOWER SEISMIC (S_{DS} ≤ 1.0) COLUMN	LOWER SEISMIC (S_{DS} ≤ 1.0) PILE FOOTING	LOWER SEISMIC (S_{DS} ≤ 1.0) 1 & 10 ALTERNATE SPREAD FOOTING	HIGHER SEISMIC (S_{DS} ≤ 1.75 MAX.) (15) COLUMN	HIGHER SEISMIC (S_{DS} ≤ 1.75 MAX.) (15) PILE FOOTING	HIGHER SEISMIC (S_{DS} ≤ 1.75 MAX.) (15) 1 & 10-ALTERNATE SPREAD FOOTING
(RISK CATEGORY II)	12'-6"	20 PSF LL	HSS6x6x3/16	1'-6"Øx1'-0"	6'-4" SQx2'-0"(6)		1'-6"Øx1'-4"	7'-0" SQx2'-4"(9)
		20 PSF SL		1'-6"Øx1'-4"				
		30 PSF SL	HSS8x6x3/16(4)	1'-6"Øx1'-8"		HSS8x6x1/4(5)	1'-6"Øx1'-8"	
		OPTIONAL MISC DEAD LOAD	HSS6x6x3/16	1'-6"Øx1'-3"	7'-0" SQx2'-4"(9)		1'-6"Øx1'-4"	7'-9" SQx2'-4"(9)
	14'-6"	20 PSF LL	HSS6x6x1/4	1'-6"Øx1'-3"	6'-4" SQx2'-0"(8)	HSS6x6x3/16(5)	1'-6"Øx1'-2"	7'-3" SQx2'-4"(9)
		20 PSF SL		1'-6"Øx1'-4"				
		30 PSF SL	HSS8x6x3/16(4)	1'-6"Øx1'-8"			1'-6"Øx1'-8"	
		OPTIONAL MISC DEAD LOAD	HSS6x6x1/4	1'-6"Øx1'-6"	7'-0" SQx2'-4"(9)	HSS6x6x3/16(6)	1'-6"Øx1'-9"	8'-2" SQx2'-4"(9)
	16'-6"	20 PSF LL	HSS6x6x1/4	1'-6"Øx1'-6"	6'-4" SQx2'-0"(8)	HSS6x6x1/4(5)	1'-6"Øx1'-6"	7'-6" SQx2'-4"(9)
		20 PSF SL		1'-6"Øx1'-4"				
		30 PSF SL	HSS8x6x3/16(4)	1'-6"Øx1'-8"			1'-6"Øx1'-8"	
		OPTIONAL MISC DEAD LOAD	HSS6x6x1/4	1'-6"Øx1'-9"	7'-0" SQx2'-4"(9)	HSS6x6x3/16(6)	1'-6"Øx1'-0"	8'-6" SQx2'-4"(10)
			LOWER SEISMIC (S_{DS} ≤ 1.0)			HIGHER SEISMIC (S_{DS} ≤ 2.5 MAX.)		
(RISK CATEGORY III)	12'-6"	20 PSF LL	HSS6x6x3/16	1'-6"Øx1'-4"	6'-10" SQx2'-0"(8)	HSS6x6x3/16(5)	1'-6"Øx1'-3"	9'-0" SQx2'-4"(10)
		20 PSF SL		1'-6"Øx1'-4"				
		30 PSF SL	HSS8x6x1/4(5)	1'-6"Øx1'-8"				
		OPTIONAL MISC DEAD LOAD	HSS8x6x3/16	1'-6"Øx1'-0"	7'-6" SQx2'-4"(9)	HSS6x6x1/2(7)	1'-6"Øx1'-3"	9'-10" SQx2'-6"(11)
	14'-6"	20 PSF LL	HSS6x6x1/4	1'-6"Øx1'-0"	6'-10" SQx2'-0"(8)	HSS6x6x3/16(6)	1'-6"Øx1'-8"	9'-3" SQx2'-4"(10)
		20 PSF SL		1'-6"Øx1'-4"				
		30 PSF SL	HSS8x6x1/4(5)	1'-6"Øx1'-4"				
		OPTIONAL MISC DEAD LOAD	HSS8x6x1/4	1'-6"Øx1'-3"	7'-6" SQx2'-4"(9)	HSS6x6x3/16(6)	1'-6"Øx1'-8"	10'-4" SQx2'-6"(11)
	16'-6"	20 PSF LL	HSS6x6x5/16	1'-6"Øx1'-3"	6'-10" SQx2'-0"(8)	HSS6x6x1/2(6)	1'-6"Øx1'-0"	9'-8" SQx2'-4"(10)
		20 PSF SL		1'-6"Øx1'-4"				
		30 PSF SL	HSS8x6x5/16(5)	1'-6"Øx1'-4"				
		OPTIONAL MISC DEAD LOAD	HSS6x6x5/16	1'-6"Øx1'-0"	7'-6" SQx2'-4"(9)	HSS6x6x1/2(7)	2'-0"Øx1'-6"	10'-10" SQx2'-6"(11)

MOVE COLUMN & FOOTINGS IN 1" FROM COLUMN LINE SO OUTSIDE FACE OF COLUMN STILL ALIGN W/ CORNER COLUMN

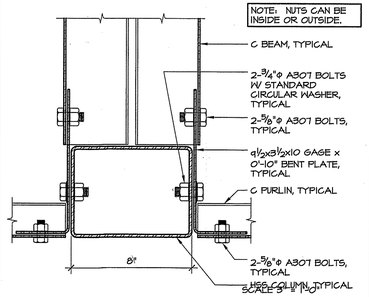
NOTES:

1. ALTERNATE SPREAD FOOTINGS ARE OPTIONAL FOOTINGS @ AN ADDITIIONAL COST.
2. NO SNOW LOAD ALLOWED W/ 3 P.S.F. MISCELLANEOUS DEAD LOAD.
3. COLUMN EMBEDMENT OF PILE FOOTING TO EXTEND INTO FOOTING 6" MAX. FROM BOTTOM, SEE SECTION 4K/S2.
4. AT CORNER COLUMN MAY USE HSS6x6x3/16.
5. AT CORNER COLUMN MAY USE HSS8x6x3/16
6. AT CORNER COLUMN MAY USE HSS8x6x1/4.
7. AT CORNER COLUMN MAY USE HSS8x6x5/16.
8. USE 6-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING W/ 3" MIN. COVER. KEEP COLUMN 4½" CLEAR FROM BOTTOM OF FOOTING.
9. USE 8-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTINGS W/ 3" MIN. COVER. KEEP COLUMN 4½" CLEAR FROM BOTTOM OF FOOTING.
10. USE 10-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING W/ 3" MIN. COVER. KEEP COLUMN 4½" CLEAR FROM BOTTOM OF FOOTING.
11. USE 12-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING W/ 3" MIN. COVER. KEEP COLUMN 4½" CLEAR FROM BOTTOM OF FOOTING.
12. USE 4-L 2x2x5/16x3'-6" LONG ANGLES @ BOTTOM OF COLUMN, EACH W/ 5-¼-14 TEKS SCREWS TO COLUMN, SEE 8F/S3.
13. IF SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED ON THIS P.C., SEE GENERAL NOTES NUMBER 11.
14. MINIMUM PIER SPACING IS 3 DIAMETERS PER CBC 1810A.2.5.
15. Sds MAXIMUM OR REDUCE BAY SPACING, SEE SITE SPECIFIC INFORMATION TABLE ON SHEET S1.

COLUMN & FOOTING TABLE 8D

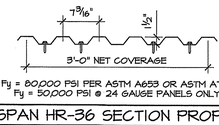


OPTIONAL SPREAD FOOTING @ ADDITIONAL COST SCALE ¾" = 1'-0" 8F



SCALE 3" = 1'-0"

BEAM TO COLUMN @ INTERMEDIATE LOCATION (30 PSF MAX. SNOW LOAD) 8H



Fy = 80,000 PSI PER ASTM A653 OR ASTM A792
Fy = 50,000 PSI @ 24 GAUGE PANELS ONLY

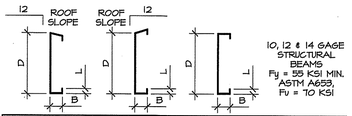
AEP SPAN HR-36 SECTION PROPERTIES

GAUGE	Wt. (lbs./ft.²)	I+ (in.⁴/ft.)	S+ (in.³/ft.)	I- (in.⁴/ft.)	S- (in.³/ft.)
24	1.2	0.1116	0.1234	0.1141	0.1156
26	0.98	0.0825	0.0845	0.0838	0.0834

McELROY MEGA-RIB SECTION PROPERTIES

GAUGE	Wt. (lbs./ft.²)	I+ (in.⁴/ft.)	S+ (in.³/ft.)	I- (in.⁴/ft.)	S- (in.³/ft.)
24	1.22	0.1038	0.1228	0.1038	0.1228
26	0.98	0.0761	0.0841	0.0761	0.0841

SECTION PROPERTIES ARE EFFECTIVE SECTION PROPERTIES TYP.



CEE SECTION PROPERTIES

SECTION DxB	GAUGE	WEIGHT lb/ft.	Ae in.²	AXIS X-X Ix in.⁴	AXIS X-X Sx in.³	AXIS Y-Y Iy in.⁴	AXIS Y-Y Sy in.³	L in.
C12x2¼	14	4.28	0.629	24.153	3.524	0.807	0.469	1.081
C12x2¼	12	6.43	1.134	35.934	5.989	1.2	0.705	1.166
C17x3	12	8.57	1.185	83.417	8.887	2.32	0.961	0.916
C17x3	10	10.98	1.762	119.65	12.834	2.98	1.242	0.984
C10x3	12	9.02	1.256	98.643	9.909	2.5	1.035	1.042

MATERIAL PROPERTIES TABLES 8K

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124747 (PC)
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CDS ☐
DATE: 9/25/2023

16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
PH.: (559) 734-6575
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Gerard Homer and Associates
STRUCTURAL ENGINEERS

DWN BY: B.G.H.	CHKD BY: G.B.H.

DATE: 9/20/23

PROJECT NO: 23014

DRAWING TITLE
TABES & DETAILS

SHEET NUMBER
S3
OF 3 SHEETS