HIGHLANDS ES – PORTABLES REPLACEMENT PROJECT, INCREMENT 1

HIGHLANDS ELEMENTARY SCHOOL

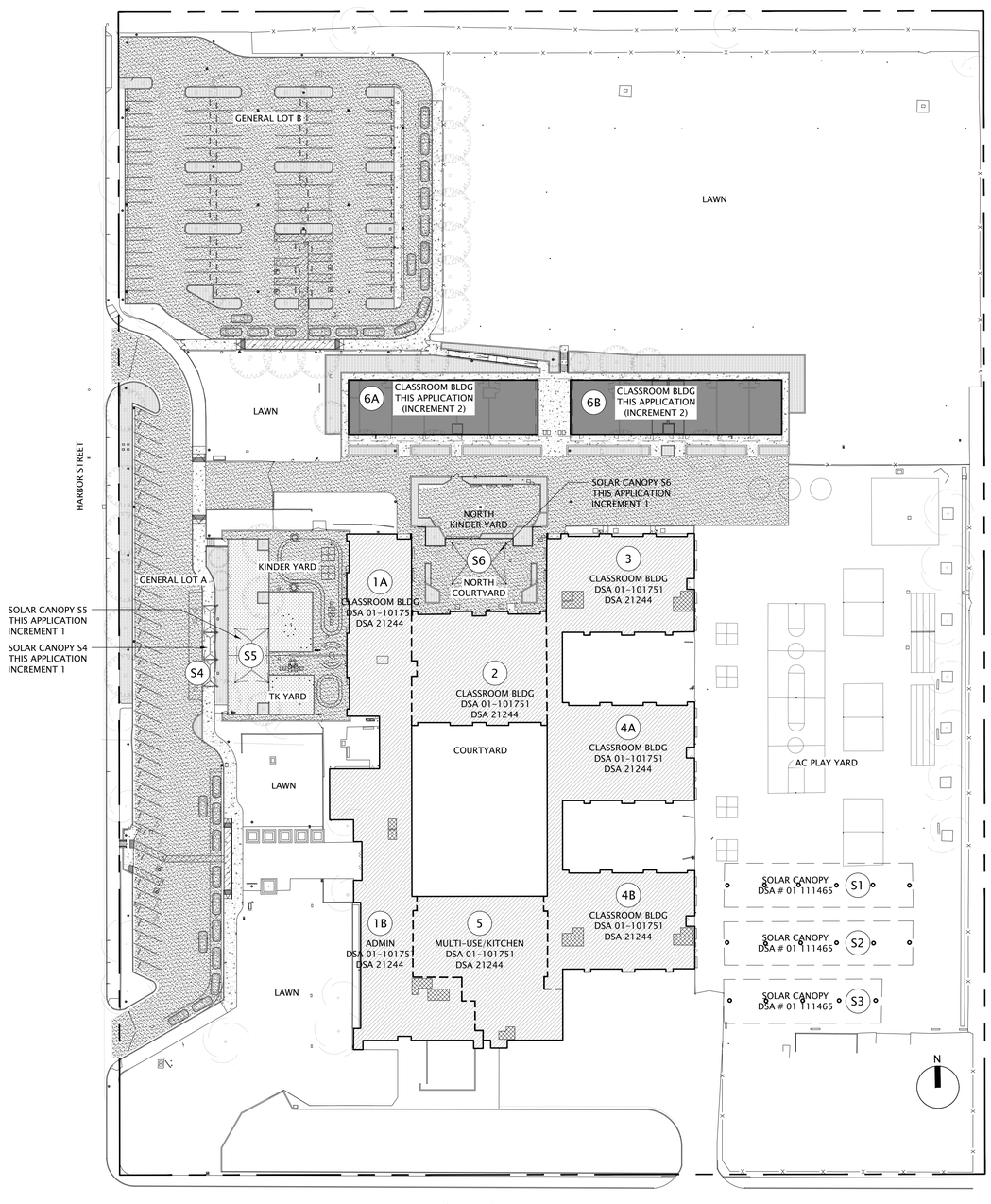
PITTSBURG UNIFIED SCHOOL DISTRICT, PTN:61788-127
4141 HARBOR STREET, PITTSBURG, CA 94565

DSA 01-122869
55 PAGES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

CAMPUS SITE ACCESS PLAN

SCALE: 1'=50'-0"



PROJECT SCOPE OF WORK

THE WORK OF INCREMENT 1 OF THIS CONTRACT AT PITTSBURG USD HIGHLANDS ELEMENTARY SCHOOL CONSISTS OF SITE WORK AND PREPARATION FOR THE REPLACEMENT OF (7) MODULAR CLASSROOM BUILDINGS WITH (2) PERMANENT MODULAR CLASSROOM BUILDINGS, AND REMOVAL AND REPLACEMENT OF EXISTING PARKING AND STUDENT PICKUP/DROP OFF AREAS.

INCREMENT 1 WILL CONSIST OF:

1. EXPANSION & RECONFIGURATION OF EXISTING PARKING LOT A;
2. EXPANSION & RECONFIGURATION OF EXISTING PARKING LOT B;
3. INSTALLATION OF (1) 60x10 GROUPED SHADE CANOPY STRUCTURE AT PARKING LOT A;
4. RE-GRADING AT EXISTING LAWN IN PREPARATION FOR INSTALLATION OF (2) PERMANENT MODULAR CLASSROOM BUILDINGS;
5. RE-GRADING AND REPLACEMENT OF EXISTING NORTH STUDENT COURTYARD;
6. INSTALLATION OF (1) 30X40 SHADE CANOPY AT NORTH STUDENT COURTYARD PER DSA 04-123501;
7. INSTALLATION OF (1) ON-SITE FIRE SERVICE;
8. REMOVAL OF (8) MODULAR CLASSROOM BUILDINGS;
9. REPLACEMENT IN LOCATION OF EXISTING TK & KINDER PLAY YARD PLAY STRUCTURES;
10. INSTALLATION OF (1) 24X40 SHADE CANOPY AT EXISTING TK & KINDER PLAY YARDS PER DSA 04-123501.

INCREMENTAL SUBMITTALS

INCREMENT 1: EARTHWORK, SITE IMPROVEMENTS, REMOVAL OF (7) MODULAR CLASSROOM BUILDINGS & INSTALLATION OF SHADE CANOPIES
INCREMENT 2: CONSTRUCTION OF (2) PERMANENT MODULAR CLASSROOM BUILDINGS PER DSA PC SET.

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (APPLICATION NO. 01-122869, FILE NO. 7-36)

THE DRAWINGS OR SHEETS INDICATED WITH AN ASTERISK (*) HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND 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 ANDS SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

12/12/2025
ROBERTA WAHL — LICENSE C28322 (EXP. 6/30/27)

CALGREEN DECLARATION

I ATTEST THAT PRESCRIPTIVE COMPLIANCE HAS BEEN MET ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 11 (CALGREEN) SECTION 5.409.3 AND PRODUCTS SPECIFIED DO NOT EXCEED THE GLOBAL WARMING POTENTIAL AS SPECIFIED IN CALGREEN TABLE 5.409.3. FURTHERMORE, I WILL ENSURE DURING CONSTRUCTION THAT THE MATERIAL SPECIFICATIONS WILL BE REVIEWED FOR SUBSTANTIAL CONFORMANCE WITH THE GLOBAL WARMING POTENTIAL LIMITS INDICATED ON THE APPROVED DOCUMENTS.

01/22/2026
ROBERTA WAHL — LICENSE C28322 (EXP. 6/30/27)

PROJECT TEAM

OWNER	PITTSBURG UNIFIED SCHOOL DISTRICT 2000 RAILROAD AVENUE PITTSBURG, CA 94565 925-473-2300
ARCHITECT OF RECORD	PLUM ARCHITECTS 870 MARKET STREET, SUITE 878 SAN FRANCISCO, CA 94102 415-837-0900
CIVIL ENGINEER	CLARK CIVIL ENGINEERING P.O.BOX 131 POINT REYES, CA 94956 510-715-6018
ELECTRICAL ENGINEER	O'MAHONY & MYER 4340 REDWOOD HWY, SUITE 245 SAN RAFAEL, CA 94903 415.492.0420
IRRIGATION	ARCHITECTURAL SOLUTIONS

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T2 GENERAL NOTES & ABBREVIATIONS
T3 FIRE ACCESS SITE PLAN
T4 ACCESSIBILITY SITE PLAN

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* C0.02 GRADING SPECIFICATIONS
* C2.00 SITE PLAN, GRADING & UTILITY NOTES
* C2.01 GRADING & DRAINAGE PLAN
* C2.02 GRADING & DRAINAGE PLAN
* C2.03 GRADING & DRAINAGE PLAN
* C2.04 GRADING & DRAINAGE PLAN
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A1.02 PROPOSED SITE PLAN
A1.03 ENLARGED SITE PLAN: HARBOR STREET NORTH
A1.04 ENLARGED SITE PLAN: HARBOR STREET SOUTH
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PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

LICENSED ARCHITECT
ROBERTA ANN WAHL
C28322
Ren.06-30-27
STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511
Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet
TITLE SHEET & GENERAL PROJECT DATA

T1

Date
April 17, 2026

ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
℄	CENTERLINE
∅	DIAMETER or ROUNDED
#	POUND or NUMBER
d	PENNY
A.A.C.	ADHESIVE-APPLIED ACOUSTIC TILE
A.B.	ANCHOR BOLT
ABV.	ABOVE
AC	ASPHALT CONCRETE
ACCS.	ACCESS or ACCESSIBLE
ACOUS.	ACOUSTIC
ACT	ACOUSTICAL TILE
A.D.	AREA DRAIN
A.D.A.	AMERICANS W/ DISABILITIES ACT
ADDN.	ADDITION
ADH.	ADHESIVE
ADJ.	ADJUST or ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
AGGR.	AGGREGATE
AL.	ALUMINUM
ALT.	ALTERNATE
A.P.	ACCESS PANEL
APPO.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
BAL.	BALANCING
BARR.	BARRIER
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK or BLOCKING
B.M.	BENCH MARK
BOT.	BOTTOM
B.O.	BOTTOM OF
BSMT.	BASEMENT
B.U.R.	BUILT-UP ROOFING
C.TO C.	CENTER TO CENTER
CAB.	CABINET
CAP.	CAPACITY
C.B.	CATCH BASIN
CEM.	CEMENT
CER.	CERAMIC
C.G.	CORNER GUARD
CH.	CHANNEL
CH.B.	CHALK BOARD
C.I.	CAST IRON
CITY	CITY OF SAN FRANCISCO
C.J.	CONTROL JOINT
C.L.	CHAIN LINK
CLG.	CEILING
CLKG.	CAULKING
CLOS.	CLOSET
CLR.	CLEAR
C.M.S.	COUNTERSUNK MACHINE SCREW
C.M.U.	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CONST.	CONSTRUCTION
CONTR.	CONTRACTOR
CORR.	CORRIDOR
C.T.	CERAMIC TILE
CTR.	CENTER
CTSK.	COUNTERSINK(SUNK)
DP.	DEEP
D.A.	DOUBLE ACTING
DBL.	DOUBLE
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
∅	DIAMETER
DIAM.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DISP.	DISPENSER
DIV.	DIVISION
DG	DECOMPOSED GRANITE
DN.	DOWN
DO.	DOOR OPENING
DOM.	DOMESTIC
DP.	DAMPROOFING
DR.	DOOR
DS.	DOWNSPOUT
D.S.P.	DRY STANDPIPE
D.S.A.	DIVISION OF STATE ARCHITECT
DWG.	DRAWING
DWR.	DRAWER
(E)	EXISTING
E.	EAST
EA.	EACH
E.B.	EXPANSION BOLT
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
EN.	ENAMEL
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANELBOARD
EQ.	EQUAL
EQ.J.	EARTHQUAKE JOINT
EQUIP.	EQUIPMENT
EST.	ESTIMATE
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EXC.	EXCAVATE(ED)
EXH.	EXHAUST
EXP.	EXPOSED
EXPAN.	EXPANSION
EXT.	EXTERIOR
EXTR.	EXTRUDED
F.A.	FIRE ALARM
FAB.	FABRICATE
F.B.	FLAT BAR
F.A.U.	FORCED AIR UNIT
F.B.O.	FURNISHED BY OTHERS
F.C.	FURRED CEILING
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FEDSPEC	FEDERAL SPECIFICATION
F.F.	FINISHED FLOOR
F.H.	FIRE HYDRANT
F.H.C.	FIRE HOSE CABINET
F.H.S.	FLAT HEAD SCREW
FIN.	FINISH(ED)
F.I.O.	FURNISHED & INSTALLED BY OWNER
F.J.	FORMED JOINT
FLASH.	FLASHING
FLEX.	FLEXIBLE
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.W.	FACE OF WALL
F.O.I.C.	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
F.O.S.	FACE OF STUD
FP.	FIREPROOF
F.S.	FULL SIZE
FT.	FEET or FOOT
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GAL.	GALLON
GALV.	GALVONZIED
G.B.	GRAB BAR
GEN.	GENERAL
GL.	GLASS
GND.	GROUND
GOVT.	GOVERNMENT
GR.	GRADE
G.S.M.	GALVANIZED SHEET METAL
G.S.U.	GLAZED STRUCTURAL UNIT
G.W.B.	GYPSUM WALL BOARD
GYM.	GYMNASIUM
GYP.	GYPSUM
H.	HIGH (DIM)
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDWE.	HARDWARE
HGT.	HEIGHT
H.M.	HOLLOW METAL
HOL.	HOLLOW
HOR.	HORIZONTAL
H.P.	HIGH POINT
HR.	HOUR
HT.	HEIGHT
H.W.H.	HOT WATER HEATER
I.D.	INSIDE DIAMETER
IN.	INCH
INCR.	INCREASE
INFO.	INFORMATION
INS.	INSULATION
INT.	INTERIOR
INV.	INVERT
I.S.A.	INTERNATIONAL SYMBOL OF ACCESSIBILITY
JAN.	JANITOR
JST.	JOIST
JT.	JOINT
K.O.	KNOCK OUT
K.P.	KICK PLATE
L.	LONG (DIM)
LAB.	LABORATORY
LAM.	LAMINATE(ED)
LAV.	LAVATORY
LIN.	LINEAR
LKR.	LOCKER
LT.	LIGHT
LTG.	LIGHTING
MARB.	MARBLE
MAS.	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.C.	MEDICINE CHEST
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MLDG.	MOULDING
M.L.P.	METAL LATH & PLASTER
M.O.	MASONRY OPENING
M.S.	MACHINE SCREW
MTD.	MOUNTED
MTL.	METAL
MUL.	MULLION
(N)	NEW
N.	NORTH
NEG.	NEGATIVE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
O/	OVER
O.A.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.D.	OVERFLOW DRAIN
OFF.	OFFICE
O.F.C.	OVERFLOW SCUPPER
O.H.S.	OVAL HEAD SCREW
OPNG.	OPENING
OPP.	OPPOSITE
O.R.S.	OFFICE OF REGIONAL SERVICES, D.S.A.
O.H.	OVERHEAD
OZ.	OUNCE
PARA.	PARALLEL
PART.	PARTITION
PART.BD.	PARTICLE BOARD
P.B.	PANIC BAR
PC.	PIECE or POINT OF CURVATURE
PERF.	PERFORATED
PERP.	PERPENDICULAR
PL.	PLATE
P.L.	PROPERTY LINE
P-LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLY.	PLYWOOD
PNL.	PANEL
POL.	POLISH(ED
P.O.A.	PATH OF TRAVEL
P.PL.	POLISHED PLATE
PR.	PAIR
PRCST.	PRECAST
PREFAB.	PREFABRICATE(D)
PRELIM.	PRELIMINARY
PROJ.	PROJECT or PROJECTION
PROP.	PROPERTY
P.S.	PIPE STEEL
P.S.I.	POUNDS PER SQUARE INCH
P.S.F.	POUNDS PER SQUARE FOOT
PT.	POINT
P.T.D.	PAPER TOWEL DISPENSER
P.T.D./R.	PAPER TOWEL DISPENSER & RECEPTACLE
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
P.T.R.	PAPER TOWEL RECEPTACLE
Q.T.	QUARRY TILE
QTR.	QUARTER
R.	RISER
RAD.	RADIUS
R.B.	RUBBER BASE
R.C.P.	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
REC.	RECEIVE
REF.	REFERENCE
REFA	REFRIGARATION
REINF.	REINFORCED
REQD.	REQUIRED
RES.	RESILIENT
RET.	RETURN
REV.	REVISED or REVISION
RFG.	ROOFING
RGTR.	REGISTER
RHS.	ROUND HEAD SCREW
R.I.	RIGID INSULATION
R.L.	RAIN LEADER (INTERIOR)
RM.	ROOM
RND.	ROUND
R.O.	ROUGH OPENING
RSP	RESOURCE SPECIALIST CLASSRM
RUB.	RUBBER
RWD.	REDWOOD
RDWD.	REDWOOD
S.	SOUTH
S.&V.	SATIN & VARNISH
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
S.E.D.	SEE ELECTRICAL DWGS.
SCHED.	SCHEDULE(ED)
S.D.	SOAP DISPENSER or STORM DRAIN
S..S.	SELF-DRILLING SCREW
SECT.	SECTION
SH.	SHOWER
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
SL.	SLOPE
S.L.D.	SEE LANDSCAPE DWGS.
S.M.D.	SEE MECHANICAL DWGS.
SMS	SHEET METAL SCREW
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
S.O.G.	SLAB ON GRADE
S.P.D.	SEE PLUMBING DWGS.
SPEC.	SPECIFICATIONS
SQ.	SQUARE
S.S.D.	SEE STRUCTURAL DWGS.
S.	SOUTH
SK.	SINK
S.STL., S.S.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
STER.	STERILIZER
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
STS	SELF-TAPPING SCREW
SUB.	SUBSTITUTE
SUPT.	SUPERINTENDENT
SUSP.	SUSPEND(ED)
SYM.	SYMMETRICAL
SYS.	SYSTEM
T.	TREAD
T&G	TONGUE & GROOVE
T&I	TESTING & INSPECTION
THERM.	THERMOSTAT
TB.	TACKBOARD
TC.	TERRACOTTA
TEL.	TELEPHONE
TEMP.	TEMPORARY or TEMPERATURE
TERR.	TERRAZZO
T.H.B.	TEMPER HARD BOARD
THK.	THICK
THRESH.	THRESHOLD
THRU.	THROUGH
TLT.	TOILET
T.O.	TOP OF
TOP.	TOPPING
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF STEEL
T.M.E.	TO MATCH EXISTING
T.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
T.S.	TUBE STEEL
T.V.	TELEVISION
T.W.	TOP OF WALL
TYP.	TYPICAL
U.H.	UNIT HEATER
UNFIN.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
U.O.S.	UNDERSIDE OF STEEL
UR.	URINAL
U.	UNIT
V.	VENTILATOR
VAR.	VARIES or VARIABLE
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.G.	VERTICAL GRAIN
VOL.	VOLUME
V.S.	VINYL SHEET
W.	WEST
W/	WITH
W/O	WITHOUT
WAIN	WAINSCOT
W.C.	WATER CLOSET
W.C.A.	WHEEL CHAIR ACCESSIBLE
WD.	WOOD
W.F.	WIDE FLANGE (STEEL)
W.GL.	WIRE GLASS
WH.B.	WHITE BOARD
W.I.	WHERE INDICATED
WIND.	WINDOW
W.O.	WHERE OCCURS
W.P.	WATERPROOF
W.S.	WEATHERSTRIP
WT.	WEIGHT
W.W.M.	WELDED WIRE MESH
Y.D.	YARD DRAIN

GENERAL NOTES CON'T.

32. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC & CBC CHAPTER 33, "FIRE LIFE SAFETY DURING CONSTRUCTION AND DEMOLITION", AND THE WRITTEN SITE FIRE SAFETY PLAN.

33. CONTRACTOR SHALL COMPLY WITH CGBC SECTION 5.408 FOR REDIRECTION OF CONSTRUCTION WASTE, WASTE MANAGEMENT PLANS & DOCUMENTATION & RE-USE OF EXISTING SITE SOILS AS DIRECTED BY SPECIFICATIONS, PLANS & DRAWINGS.

34. THE CONTRACT DOCUMENTS, INCLUDING THE SPECIFICATIONS, PLANS, AND DRAWINGS, ARE COMPLEMENTARY AND WHAT IS CALL FOR BY ANY ONE SHALL BE AS BINDING AS IF CALLED FOR BY ALL. IN CASE OF CONFLICT, LARGE SCALE DRAWINGS SHALL GOVERN OVER SMALL-SCALL DRAWINGS, THE SPECIFICATIONS SHALL GOVERN OVER BOTH THE CONSTRUCTION PROCEDURES MANUAL AND THE CONTRACT DRAWINGS EXCEPT AS NOTED HEREIN BELOW, SPECIAL PROVISIONS SHALL GOVERN OVER BOTH THE CONTRACT DRAWINGS AND THE GENERAL CONDITIONS, AND SUBSEQUENT ADDENDA, INTERPRETATIONS, OR CHANGE ORDERS SHALL GOVERN OVER THE ORIGINAL DOCUMENTS, UNLESS A DIFFERENT ORDER OF PRECEDENCE IS NOTED ELSEWHERE IN CONJUNCTION WITH A SPECIFIC PORTION OF THE DOCUMENTS.
    34.1. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE DOCUMENT CONTAINING ADDITIONAL QUANTITIES SHALL GOVERN IN MATTERS OF QUANTITY, THE DOCUMENT REQUIRING A HIGHER DEGREE OF QUALITY SHALL GOVERN IN MATTERS OF QUALITY. IN CASE OF CONFLICT WITHIN THE DRAWINGS INVOLVING QUANTITIES OR WITHIN THE SPECIFICATIONS INVOLVING QUALITY, THE GREATER QUANTITY AND THE HIGHER QUALITY SHALL BE FURNISHED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL SUCH QUANTITY AND QUALITY CONFLICTS AND SHALL AGREE UPON RESOLUTION, IN WRITING, PRIOR TO PROCEEDING.
    34.2. WHERE ON ANY DRAWING A PORTION OF THE WORK IS DRAWN OUT THE REMAINDER IS INDICATED IN OUTLINE, THE DRAWN-OUT PARTS SHALL APPLY TO ALL OTHER LIKE PORTIONS OF THE WORK. WHERE ORNAMENT OR OTHER DETAIL IS INDICATED AS STARTING, SUCH DETAIL SHALL BE CONTINUED THROUGHOUT THE COURSES OR PARTS IN WHICH IT OCCURS AND SHALL ALSO APPLY TO OTHER SIMILAR PARTS IN THE WORK, UNLESS OTHERWISE NOTED.

35. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS, ORDINANCES, AND STATUTES SPECIFIED IN SECTION 11017 OF THE GOVERNMENT CODE. THE CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM ACCUMULATION OF DEBRIS CAUSED BY IT'S OPERATIONS. THE CONTRACTOR SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. CONSTRUCTION DEBRIS AND WASTE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DISPOSE OF AT AN APPROPRIATE SITE. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL CLEAN THE BUILDING.

ADMINISTRATIVE REQUIREMENTS

Chapter 4, Part 1, Title 24, C.C.R. (Partial Listing Only)

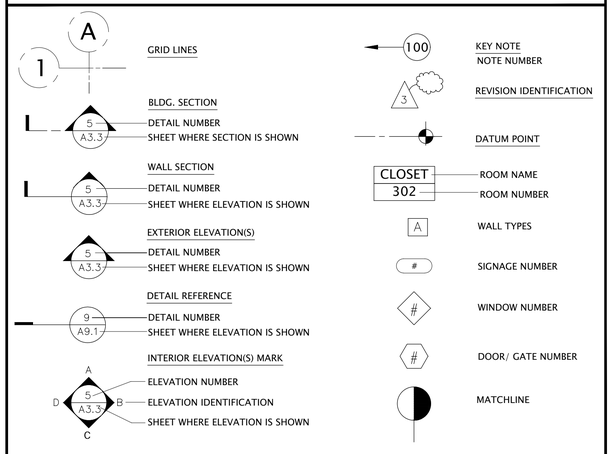
1. A copy of all applicable parts referred to by the plans and specifications of C.C.R Title 24, shall be kept on the job site at all times.
2. All construction change documents and addenda shall be signed by the architect and the owner and approved by DSA. Construction change documents are not valid until approved by DSA per Section 4-338, Part 1, Title 24.
3. All tests shall conform to the requirements of Section 4-335, Part 1, Title 24, and approved T&I sheet.
4. Tests of materials and testing laboratory shall be in accordance with Section 4-335 of Part 1, Title 24 and the district shall employ and pay the laboratory. Costs of re-test may be back charged to the contractor.
5. DSA shall be notified at the start of construction and prior to the placement of concrete per Section 4-331, Part 1, Title 24.
6. Inspector-of-record shall be approved by DSA. Inspection shall be in accordance with Section 4-333(b). The duty of the inspector shall be in accordance with Section 4-342, Part 1, Title 24.
7. Supervision of construction by DSA shall be in accordance with Section 4-334, Part 1, Title 24.
8. Contractor, inspector, architect and engineers shall submit verified reports (DSA 6-AE) in accordance with Section 4-336 and 4-343, Part 1, Title 24.
9. The architect and the structural engineer shall perform their duties in accordance with Section 4-333(a) and 4-341, Part 1, Title 24.
10. The contractor shall perform its duties in accordance with Section 4-343, Part 1, Title 24.
11. The intent of the drawings and specifications is to maintain the school buildings in accordance with Title 24, C.C.R. should any conditions develop not covered by the contract documents wherein the finished work will not comply with said Title 24, C.C.R., a construction change document detailing and specifying the required work shall be submitted to, and approved by, the division of the state architect (DSA) before proceeding with the work.

APPLICABLE CODES

California Code of Regulations Title 24 (CCR):
- 2025 California Administrative Code (CAC), Part 1
- 2025 California Building Code (CBC), Part 2
  (2024 International Building Code, Vol. 1&2 and Amendments/Additions)
- 2025 California Electrical Code (CEC), Part 3
  (NFPA 70, 2023 and Amendments/Additions)
- 2025 California Mechanical Code (CMC), Part 4
  (Uniform Mechanical Code 2024 and Amendments/Additions)
- 2025 California Plumbing Code (CPC), Part 5
  (Uniform Plumbing Code 2024 and Amendments/Additions)
- 2025 California Energy Code (CEnC), Part 6
- 2025 California Wildland-Urban Interface Code (WUI), Part 7
  (International Wildland-Urban Interface Code 2024 (IWUIC 2024) and Amendments/Additions)
- 2025 California Fire Code (CFC), Part 9
  (International Fire Code 2024 (IFC 2024) and Amendments/Additions)
- 2025 California Green Building Standards Code (CALGreen), Part 11
- 2025 California Referenced Standards Code, Part 12
- Title 19, Public Safety, State Fire Marshal Regulations
- 2010 ADA Standards for Accessible Design

2021 NFPA 17 Standard for Dry Chemical Extinguishing Systems
2019 NFPA 24 Standard for the Installation of Private Fire Service Mains and their Appurtenances
2022 NFPA 72 National Fire Alarm and Signaling Code (and CA Amendments)
2003 UL 464 Audible Signaling Devices for Fire Alarm and Signaling Systems Including Accessories
1999 UL 521 Standards for Heat Detectors for Fire Protective Signaling Systems

LEGEND



GENERAL NOTES

1. COORDINATE LAYOUT DIMENSIONS INDICATED ON THE STRUCTURAL, ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS WITH THOSE INDICATED ON THE ARCHITECTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
2. ALL WORK IS SHOWN, DESCRIBED, OR SPECIFIED IN THE DRAWINGS INDEXED ON THE TITLE PAGE (T1) OR IN THE SPECIFICATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS ON THE PROJECT SITE BEFORE THE WORK BEGINS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEMOLITION REQUIREMENTS IN RELATION TO THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES TO THE CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS BEFORE CONSTRUCTIONS BEGINS.
4. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE OBTAINED FROM OWNER-PROVIDED ARCHIVE DRAWINGS. VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ALL DEVIATIONS BEFORE PROCEEDING WITH THE WORK.
5. PLUM ARCHITECTS HAS PREPARED THESE CONSTRUCTION DOCUMENTS ONLY FOR THE IMPROVEMENTS SPECIFIED, DETAILED, INDICATED, OR SHOWN AS NEW WORK AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL, OR EQUIPMENT NOTED, INDICATED, OR SHOWN AS "EXISTING" OR AS "PROVIDED BY OTHERS." UNLESS OTHERWISE INDICATED OR NOTED, PLUM ARCHITECTS HAS NEITHER CHECKED NOR VERIFIED THE STRUCTURAL INTEGRITY, QUALITY OF CONSTRUCTION, ACCESSIBILITY TO, EGRESS FROM, OR DESIGN OF THE EXISTING CONSTRUCTION AND ANY OTHER WORK NOT INCLUDED AS PART OF THE IMPROVEMENTS SPECIFIED, DETAILED, OR SHOWN ON THESE DOCUMENTS.
6. ITEMS INDICATED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH THE WORK. ITEMS ARE ALWAYS TO BE VERIFIED FOR DESIGN INTENT AND COMPATIBILITY WITH APPROPRIATE BUILDING CODES.
7. NOT USED
8. ADEQUATE ENGINEERING OBSERVATION AND TESTING SHALL BE PROVIDED DURING CONSTRUCTION BY INSPECTOR OF RECORD PER TITLE 24.
9. DO NOT SCALE DIMENSIONS FROM DRAWINGS. USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS.
10. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED CONSTRUCTION, UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION.
11. ONLY WORK SO NOTED IS NOT IN CONTRACT. WORK DESCRIBED AS NOT IN CONTRACT SHALL NOT BE CONSTRUED AS DSA-APPROVED AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH CURRENT CODE.
12.
13. ALL ITEMS ARE NEW UNLESS OTHERWISE NOTED.
14. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE CONTRACT DOCUMENTS IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODES OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED THAT IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT AND BY DSA BEFORE PROCEEDING WITH THE WORK.
15. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES, STRUCTURES, AND EQUIPMENT. EXISTING UTILITIES AND IMPROVEMENTS DAMAGED DURING THE COURSE OF THE WORK SHALL BE PROMPTLY REPAIRED. EXISTING UTILITIES AND IMPROVEMENTS DAMAGED FOR WHICH LOCATIONS WERE UNKNOWN, SHALL BE IMMEDIATELY BROUGHT TO THE OWNER'S AND ARCHITECT'S ATTENTION AND PROMPTLY REPAIRED AT HIS/HER DIRECTION. THE WORK REQUIRED TO REPAIR DAMAGED EXISTING UTILITIES AND IMPROVEMENTS FOR WHICH LOCATIONS WERE UNKNOWN WILL BE REVIEWED AND TAKEN UNDER CONSIDERATION AS EXTRA WORK.
16. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND SERVICE NECESSARY FOR ALL WORK SHOWN, PRESCRIBED, OR REASONABLY IMPLIED, BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS. WHERE WORK OR EQUIPMENT IS INDICATED N.I.C. (NOT IN CONTRACT). SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATIONS. ALL REQUESTS FOR CLARIFICATIONS OF THESE DRAWINGS SHALL BE DIRECTED TO PLUM ARCHITECTS. ALL REQUIRED WORK SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES ON THE PROJECT. ANY CHANGES OR DELAYS ARISING FROM CONFLICTS BETWEEN TRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL TRADES COORDINATE INTERFACE BETWEEN THEMSELVES.
17. WORK BY OTHERS, OWNER MAINTENANCE PROJECTS, AND OTHER WORK ON THE SITE MAY OCCUR CONCURRENT WITH THE WORK OF THE CONTRACT. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CONCURRENT WORK ON THE SITE. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS THAT ARISE BETWEEN THE CONTRACT WORK AND THE CONCURRENT WORK ON THE SITE.
18. USE OF MATERIALS CONTAINING ASBESTOS OR OTHER HAZARDOUS MATERIALS IS PROHIBITED.
19. THE TERM "TYPICAL" (TYP) SHALL BE CONSTRUED TO MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS IN THE AREAS WITHIN THE BOUNDARIES OF THIS PROJECT.
20. THE CONTRACTOR SHALL MAINTAIN THE PUBLIC RIGHT OF WAYS, SIDEWALKS, CORRIDORS, ETC., AFFECTED BY THE CONSTRUCTION, AND KEEP THESE AREAS FREE OF ALL SOIL, DEBRIS, TRASH, ETC. ON A DAILY BASIS. CLEAN EGRESS SHALL BE MAINTAINED AT ALL TIMES FOR ALL ADJACENT BUILDING TENANTS, THEIR EMPLOYEES, AND GUESTS. CONSTRUCTION DEBRIS AND WASTE SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM ACCUMULATION OF DEBRIS CAUSED BY IT'S OPERATIONS. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL CLEAN BUILDING AND LEAVE THE WORK "READY FOR MOPPING AND WAXING."
21. NO EXTRA WORK, CHANGES OR DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS SHALL BE MADE UNLESS WRITTEN AND COUNTERSIGNED BY THE ARCHITECT AND OWNER OR WRITTEN ORDER FROM THE ARCHITECT IS OBTAINED. THIS ORDER SHALL STATE THAT THE OWNER HAS AUTHORIZED THE EXTRA WORK OR CHANGE AND NO CLAIM FOR AN ADDITIONAL SUM SHALL BE VALID UNLESS SO PRESENTED AS DESCRIBED ABOVE. THE WRITTEN ORDER IS SUBJECT TO APPROVAL BY THE GOVERNING REGULATORY AGENCIES.
22. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SUPPLY AND DISTRIBUTE ADEQUATE COPIES OF ALL DRAWINGS TO ALL TRADES FALLING UNDER THEIR RESPONSIBILITY AT ALL TIMES DURING THE PROGRESS OF THE JOB (I.E. REVISIONS.)
23. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND APPROVALS OF SUBSTITUTED MATERIALS AS REQUIRED BY THE GOVERNING CODES AND AGENCIES.
24. THE CONTRACTOR SHALL SUBMIT ALL PERTINENT SHOP DRAWINGS AND COLOR SAMPLES FOR THE ARCHITECT'S REVIEW. ALLOWING ADEQUATE TIME FOR REVIEW AND CORRECTIVE ACTION, SHOULD IT BE REQUIRED. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR THEREBY REPRESENTS THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, METHODS OF ACCESS TO THE POINT OF INSTALLATION AND SIMILAR FILED CRITERIA FOR ALL PREFABRICATED ASSEMBLIES OTHER THAN BUILDING STANDARDS WORK. THE ARCHITECTS APPROVAL OF THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS UNLESS HE HAS IN WRITING CALLED THE ARCHITECT'S ATTENTION TO SUCH DEVIATIONS AS THE TIME OF THE SUBMISSION. NOR SHALL IT RELIEVE HIM OF THE RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK MATERIALS IN CONFORMANCE WITH CONTRACT DOCUMENTS AND ANY CODES OF FEDERAL, STATE, COUNTY, OR MUNICIPALITY HAVING JURISDICTION OVER SUCH WORK. ALL APPLICABLE REQUIREMENTS IN THESE REGULATIONS SHALL BE FOLLOWED THE SAME AS IF NOTED ON THE DRAWINGS. CONFLICTS BETWEEN WORK SET FORTH ON THE DRAWINGS AND BUILDING CODES, LAWS, OR REGULATIONS NOTED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
26. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL SUBMIT CERTIFICATES OF INSPECTION OF SATISFACTORY COMPLETION, AND OPERATIONS AND MAINTENANCE INSTRUCTIONS OF ALL EQUIPMENT TO THE OWNER AND TENANT.
27. NOT USED
28. STRUCTURAL DRAWINGS GOVERN FOR SPACING AND SIZING FOR ALL STRUCTURAL MEMBERS, REINFORCING AND INSTALLING DETAILS.
29. NOT USED
30. CONTRACTOR TO REPAIR AND PATCH ALL AREAS DISTURBED DUE TO THIS PROJECTS'S SCOPE OF WORK.
31. ACCESSIBLE ROUTE OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE ROUTE OF TRAVEL SHALL B

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:	Pittsburg Unified School District
Project Name/School:	Highlands Elementary Portables Replacement Project, INC 1
Project Address:	4141 Harbor Street, Pittsburg, CA 94565

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

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

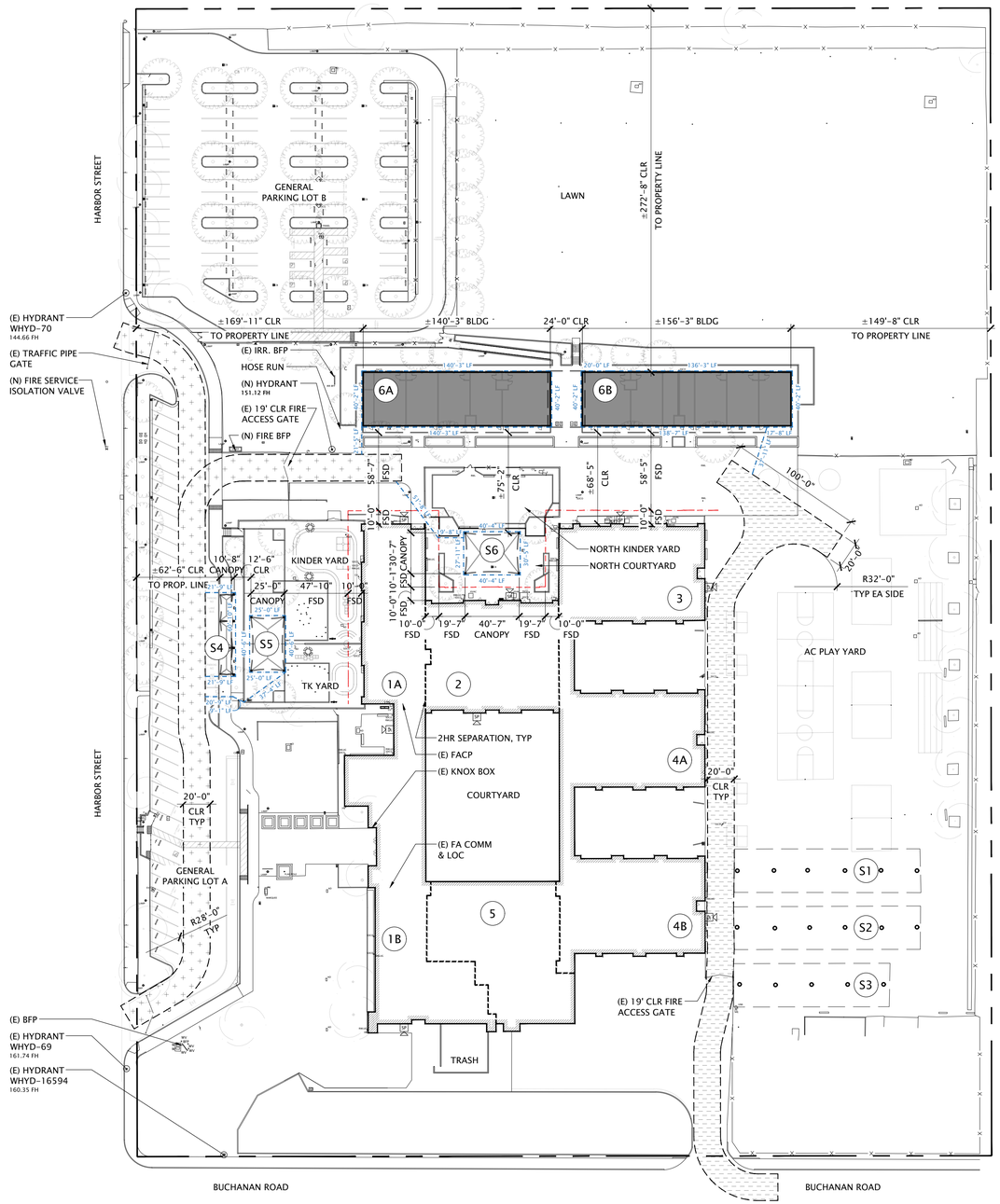
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life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



1 FIRE ACCESS SITE PLAN

SCALE: 1" = 50'-0"

SHEET NOTES

A. FIRE ACCESS ROUTE SHALL EXTEND WITHIN 150' OF PROPOSED SITE BUILDINGS, OR WITHIN 250' OF PROPOSED SITE BUILDINGS FULLY EQUIPPED WITH AUTOMATIC SPRINKLERS PER CFC 903.3.1.1, 903.3.1.2 OR 903.3.1.3, PER CONTRA COSTA COUNTY MUNICIPAL CODE §722-2.004(m), EXCEPTION 1.

B. SEE A1.01 FOR ADDITIONAL APPLICABLE SHEET NOTES

SITE BUILDING KEY

BLDG. ID

- 1A — (E) CLASSROOM BLDG 1, DSA 01-101751
- 1B — (E) ADMIN, DSA 01-101751
- 2 — (E) CLASSROOM BLDG 2, DSA 01-101751
- 3 — (E) CLASSROOM BLDG 3, DSA 01-101751
- 4A — (E) CLASSROOM BLDG 4A, DSA 01-101751
- 4B — (E) CLASSROOM BLDG 4B, DSA 01-101751
- 5 — (E) MULTI-USE BLDG 5, DSA 01-101751
- 6A — CLASSROOM BLDG 6A, THIS APPLICATION, INC 2
- 6B — CLASSROOM BLDG 6A, THIS APPLICATION, INC 2

SOLAR CANOPY ID

- S1 — SOLAR CANOPY, DSA 01-111407
- S2 — SOLAR CANOPY, DSA 01-111407
- S3 — SOLAR CANOPY, DSA 01-111407

SHADE CANOPY ID

- S4 — 10'x60'x8' FULL CANTILEVER HIP JOINED SHADE STRUCTURE PER PC 04-123501, THIS APPLICATION, INC 1
- S5 — 24'-6"x40'x9' HIP SHADE STRUCTURE PER PC 04-12350 THIS APPLICATION, INC 1
- S6 — 30'x40'x9' HIP SHADE STRUCTURE PER PC 04-12350 THIS APPLICATION, INC 1
- C1 — EXISTING SHADE CANOPY

LEGEND

- EXISTING BUILDING TO REMAIN
- FUTURE BUILDING (INCREMENT 2)
- 20'-0" WIDE CLEAR FIRE ACCESS ROUTE TO BE INSTALLED, S.C.D. FOR ADDITIONAL.
- (E) 20'-0" WIDE CLEAR FIRE ACCESS ROUTE PER DSA 01-107814 & 01-116526
- 140'-1" LF — HOSE EXTENSION/RUN FROM HYDRANT & RUN LENGTH
- (E) 2HR FIRE SEPARATION PER DSA#21244
- FIRE SEPARATION LINE/ASSUMED PROPERTY LINE, 10FT CLEAR FROM EXISTING SITE BUILDING STRUCTURES U.O.N.
- 6B — SITE BUILDING IDENTIFIER PER "SITE BUILDING KEY" ABOVE
- S4 — SITE SOLAR OR SHADE CANOPY IDENTIFIER PER "SITE BUILDING KEY" ABOVE
- SP — EXTERIOR WALL-MOUNTED FIRE ALARM SPEAKER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco, CA, 94102
TEL: 415-837-0900

LICENSED ARCHITECT ROBERTA ANN PLUM C28342 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

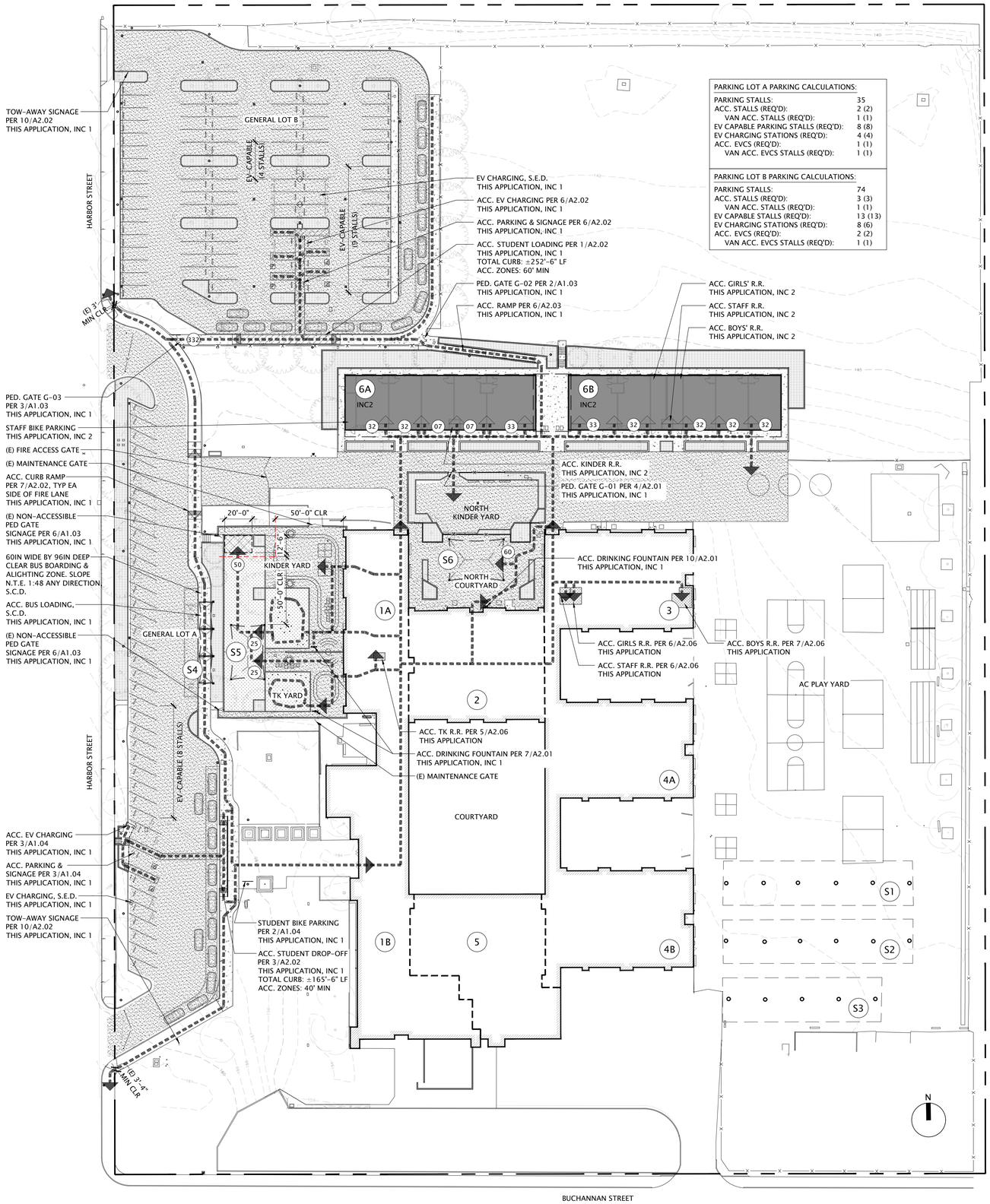
4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

FIRE ACCESS SITE PLAN

T3

Date
April 17, 2026



SITE CODE ANALYSIS

CLIMATE ZONE: 12

BLDG. ID & DSA NO.	AREA	STORIES	HEIGHT	SPRINKLERS	CONST. TYP	OCCUPANCY	OCC. / OLF
1A (E) CLASSROOM BLDG 1 DSA 01-101751	±18,080 S.F.	1	±20'-10"	NONE	III-A	E	NO CHANGE
1B (E) ADMIN DSA 01-101751		1	±20'-10"	NONE		B	NO CHANGE
2 (E) CLASSROOM BLDG 2 DSA 01-101751	±8,112 S.F.	1	±20'-10"	NONE	III-A	E	NO CHANGE
3 (E) CLASSROOM BLDG 3 DSA 01-101751	±8,337 S.F.	1	±20'-10"	NONE	III-A	E	NO CHANGE
4A (E) CLASSROOM BLDG 4A DSA 01-101751	±16,434 S.F.	1	±20'-10"	NONE	III-A	E	NO CHANGE
4B (E) CLASSROOM BLDG 4B DSA 01-101751		1	±20'-10"	NONE		E	NO CHANGE
5 (E) MULTI-USE BLDG 5 DSA 01-101751	± 9,053 S.F.	1	±27'-0"	NONE	III-A	A-2, S	NO CHANGE
6A CLASSROOM BLDG 6A THIS APPLICATION, INC 2	±11,820 S.F.	1	±13'-0"	YES, INC 2	V-B	E, B	97 OCC/CLRM + 14 OCC/ 150 GROSS
6B CLASSROOM BLDG 6A THIS APPLICATION, INC 2		1	±13'-0"	YES, INC 2		E	161 OCC/ CLASSROOMS
SOLAR CANOPY ID & DSA NO.	**AREA**	**STORIES**	**HEIGHT**	**SPRINKLERS**	**CONST. TYP**	**OCCUPANCY**	**OCC. / OLF**
S1 SOLAR CANOPY DSA 01-111407	4,500 S.F.	1	±13'-0"	NONE	II-B	U	NO CHANGE
S2 SOLAR CANOPY DSA 01-111407	4,500 S.F.	1	±13'-0"	NONE	II-B	U	NO CHANGE
S3 SOLAR CANOPY DSA 01-111407	3,800 S.F.	1	±13'-0"	NONE	II-B	U	NO CHANGE
SHADE CANOPY ID & DSA NO.	**AREA**	**STORIES**	**HEIGHT**	**SPRINKLERS**	**CONST. TYP**	**OCCUPANCY**	**OCC. / OLF**
S4 10'x60'x8' FULL CANTILEVER HIP JOINED SHADE STRUCTURE PER PC 04-123501, THIS APPLICATION, INC 1	600 S.F.	1	±10'-3" (7'-6" MIN CLR)	NONE	V-B	A-3	40 OCC/ 15 GROSS
S5 24'-6"x40'x8' HIP SHADE STRUCTURE PER PC 04-12350, THIS APPLICATION, INC 1	1,000 S.F.	1	±12'-2" (7'-6" MIN CLR)	NONE	V-B	E	50 OCC/ 20 GROSS
S6 30'x40'x8' HIP SHADE STRUCTURE PER PC 04-12350, THIS APPLICATION, INC 1	1,200 S.F.	1	±13'-3" (7'-6" MIN CLR)	NONE	V-B	E	60 OCC/ 20 GROSS

SITE EGRESS CALCULATION

NEW SHADE CANOPY S4, INC 1

BUS LOADING, A: 40 OCC, (600 SQFT EA./15 GROSS)

REQ'D GATE WIDTH = 40 OCC. x 0.2IN → 8IN CLR WIDTH
EGRESS DIRECTLY TO PUBLIC RIGHT OF WAY

NEW SHADE CANOPY S5, INC 1

SHADED T-K PLAY AREA, E: 25 OCC, (1,000 SQFT EA./20 GROSS)
SHADED KINDER PLAY AREA, E: 25 OCC, (1,000 SQFT EA./20 GROSS)

AREA OF SAFE DISPERSAL, KINDER & T-K = 50 OCC. x 55QFT/PERSON → 250 SQFT

NEW SHADE CANOPY S6, INC 1

SHADED PLAY AREA, E: 60 OCC, (1,200 SQFT EA./20 GROSS)

REQ'D GATE WIDTH = 60 OCC. x 0.2IN → 12IN CLR WIDTH
PROVIDED GATE WIDTH, GATES G-02 & G-03 = 68IN, SEE GATE SCHEDULE A2.01

NEW CLASSROOM BUILDING 6A & 6B, INC 2

(2 ROOMS) KINDER CLASSROOMS, E: 33 MAX OCC.
(6 ROOMS) ELEMENTARY CLASSROOMS, E: 32 MAX OCC.
(2 ROOMS) OFFICE/ADMINISTRATIVE, B: 14 OCC, (960 SQFT EA./150 GROSS)

REQ'D GATE WIDTH = 272 OCC. x 0.2IN → 54.4IN CLR WIDTH
PROVIDED GATE WIDTH, GATES G-02 & G-03 = 68IN, SEE GATE SCHEDULE A2.01

TOTAL REQUIRED EXIT GATE WIDTH, G-02 & G-03

TOTAL OCCUPANTS = 332 OCC.

REQ'D GATE WIDTH = 332 OCC. x 0.2IN → 66.4IN CLR WIDTH
PROVIDED GATE WIDTH, GATES G-02 & G-03 = 68IN, SEE GATE SCHEDULE A2.01

ACCESSIBLE PATH OF TRAVEL

Path of Travel, Technical Requirements for Accessible Route

Accessible Path of travel as indicated on plan is a barrier-free access route without abrupt level changes exceeding ½" if beveled at 1:2 maximum slope or vertical level changes not exceeding ¼" maximum and at least 48" in width. Surface is stable, firm, and slip-resistant. Cross-slope shall not be steeper than 1:48 and slope in the direction of travel shall not be steeper than 1:20. Accessible path of travel shall be maintained free of overhanging obstructions to 80" minimum and free of objects protruding more than 4" from the wall, above 27" and less than 80" above the floor. Architect shall verify that there are no barriers in the path of travel.

Statement of Responsible Charge

Design Professional in General Responsible Charge Statement: The POT identified in these construction documents meets the requirements of the current applicable California Building Code (CBC) accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be non-compliant with the CBC have been identified and the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are indicated in these construction documents.

During construction, if POT items within the scope of the project represented as CBC compliant are found to be nonconforming beyond reasonable construction tolerances, the items shall be brought into compliance with the CBC as a part of this project by means of a construction change document.

LEGEND

- EXISTING BUILDING TO REMAIN
- FUTURE BUILDING (INCREMENT 2)
- AREA OF CONCRETE PAVING TO BE INSTALLED, S.C.D.
- ACCESSIBLE PATH OF TRAVEL, MIN 48IN WIDE CLEAR PATH FREE OF GRADE CHANGES IN EXCESS OF 1:4IN WITH SLOPES N.T.E. 1:48 EA. DIRECTION U.O.N. BY PROPOSED SITE RAMPS AND CURB RAMPS
- AREA OF ASPHALT PAVING TO BE INSTALLED, S.C.D.
- 05 KEYNOTE, SEE ABOVE
- AREA OF ARTIFICIAL TURF SURFACING TO BE INSTALLED, SEE A2.04 ENLARGED PLAY YARD PLANS
- FIRE SEPARATION LINE/ASSUMED PROPERTY LINE, 50FT CLEAR FROM SITE BUILDINGS & STRUCTURES U.O.N.
- AREA TO RECEIVE 3IN OF NATURAL BARK MULCH, MAHOGANY WOOD CHIP BY VISION RECYCLING, OR EQUAL
- SITE PROPERTY LINE
- 6B SITE BUILDING IDENTIFIER PER "SITE BUILDING KEY" ABOVE
- AREA OF SAFE DISPERSAL
- S4 SITE SOLAR OR SHADE CANOPY IDENTIFIER PER "SITE BUILDING KEY" ABOVE
- 49 TOTAL OCCUPANT LOAD SERVED BY ADJACENT SITE FEATURE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

LICENSED ARCHITECT ROBERTA ANN PLUM C28312 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

ACCESSIBILITY SITE PLAN

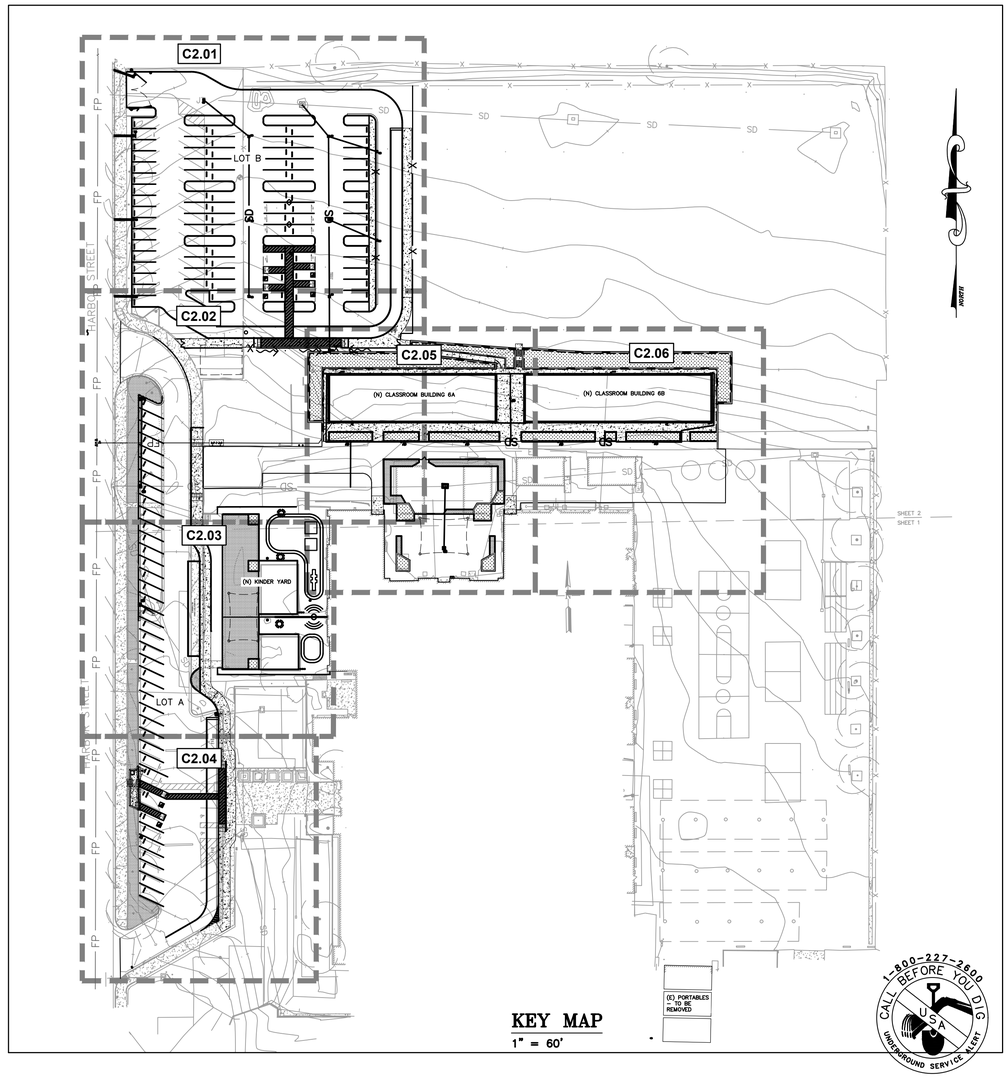
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T4

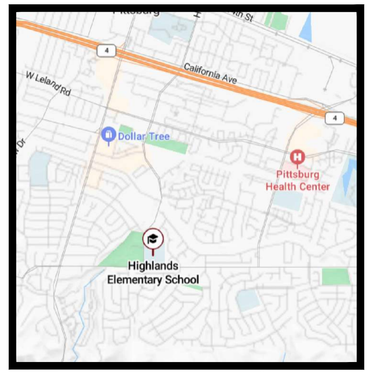
Date
April 17, 2026

HIGHLAND ES PORTABLES REPLACEMENT PROJECT INCREMENT 1

HIGHLAND ES SCHOOL
4141 HARBOR STREET
PITTSBURG, CA, 94565



KEY MAP
1" = 60'



VICINITY MAP
NTS

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		BOUNDARY
		PROPERTY LINE
		RETAINING WALL
		LANDSCAPE RETAINING WALL
		SUBDRAIN LINE
		TIGHTLINE
SD	SD	STORM DRAIN LINE
SS	SS	SANITARY SEWER LINE
W	W	WATER LINE
G	G	GAS LINE
P	P	PRESSURE LINE (LOW PRESSURE WATER/FLUID)
JT	JT	JOINT TRENCH
		SET BACK LINE
		CONCRETE VALLEY GUTTER
		SWALE FLOW DIRECTION
CB	CB	CATCH BASIN
JB	JB	JUNCTION BOX
AD	AD	AREA DRAIN
		SQUARE AREA DRAIN
		CURB INLET
SDMH	SDMH	STORM DRAIN MANHOLE
		FIRE HYDRANT
SSMH	SSMH	SANITARY SEWER MANHOLE
		STREET SIGN
222.57 INV	222.57 INV	SPOT ELEVATION
		FLOW DIRECTION
	D	DEMOLISH/REMOVE
		BENCHMARK
200	200	CONTOURS
XX" TREE		TREE TO BE REMOVED

NOTE:
EXISTING FEATURES SHOWN IN LIGHTER GRAY WHILE BLACK LINEWORK SIGNIFIES NEW DEVELOPMENT– TYP. ALL PLANS

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE
AD	AREA DRAIN
BC	BEGINNING OF CURVE
B & D	BEARING & DISTANCE
BM	BENCHMARK
BW/FG	BOTTOM OF WALL/FINISH GRADE
CB	CATCH BASIN
C & G	CURB AND GUTTER
℄	CENTER LINE
CPP	CORRUGATED PLASTIC PIPE (SMOOTH INTERIOR)
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCT or –TION
CONC COR	CONCRETE CORNER
CY	CUBIC YARD
D	DIAMETER
DI	DROP INLET
DIP	DUCTILE IRON PIPE
EA	EACH
EC	END OF CURVE
EG	EXISTING GRADE
EL	ELEVATIONS
EP	EDGE OF PAVEMENT
EQ	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISHED SURFACE
G	GAS
GA	GAGE OR GAUGE
GB	GRADE BREAK
HDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE
HORIZ	HORIZONTAL
HI PT	HIGH POINT
H&T	HUB & TACK
ID	INSIDE DIAMETER
INV	INVERT ELEVATION
JB	JUNCTION BOX
JT	JOINT TRENCH
JP	JOINT UTILITY POLE
L	LENGTH
LNDG	LANDING
LF	LINEAL FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MON.	MONUMENT
(N)	NEW
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O/	OVER
OMC	OPTIMUM MOISTURE CONTENT
(PA)	PLANTING AREA
PED	PEDESTRIAN
PIV	POST INDICATOR VALVE
PSS	PUBLIC SERVICES EASEMENT
R	PROPERTY LINE
PP	POWER POLE
PUC	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RIM	RIM ELEVATION
RW	RAINWATER
R/W	RIGHT OF WAY
S	SLOPE
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SAN	SANITARY
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
S.L.D.	SEE LANDSCAPE DRAWINGS
SPEC	SPECIFICATION
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST.	STREET
STA	STATION
STD	STANDARD
STRUCT	STRUCTURAL
T	TELEPHONE
TC	TOP OF CURB
TEMP	TEMPORARY
TP	TOP OF PAVEMENT
TW/FG	TOP OF WALL/FINISH GRADE
TYP	TYPICAL
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W/	WITH
W, WL	WATER LINE
WM	WATER METER
WWF	WELDED WIRE FABRIC

NOTES:

1. ALL GENERAL NOTES, SHEET NOTES, AND LEGEND NOTES FOUND IN THESE DOCUMENTS SHALL APPLY. TYPICALLY THROUGHOUT IF INCONSISTENCIES ARE FOUND IN THE VARIOUS NOTATIONS, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING REQUESTING CLARIFICATION.
2. THESE DRAWINGS AND THEIR CONTENT ARE AND SHALL REMAIN THE PROPERTY OF WILLIAM CLARK, P.E. INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY ANY PERSONS ON OTHER PROJECTS OR EXTENSIONS OF THE PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH PPROPRIATE COMPENSATION TO THE ENGINEER.
3. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH PHASE OF WORK INCLUDING, BUT NOT LIMITED TO, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALTRANS STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES AND/OR LEGISLATION.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO CHECK AND VERIFY ALL CONDITIONS, DIMENSIONS, LINES AND LEVELS INDICATED. PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY NOTIFY THE ENGINEER FOR CORRECTION OR ADJUSTMENT THE EVENTOF FAILURE TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERROR.
5. ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE JOB BY EACH SUBCONTRACTOR BEFORE HE/SHE BEGINS HIS/HER WORK. ANY ERRORS, OMISSION, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/CONTRACTOR BEFORE CONSTRUCTION BEGINS.
6. COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS, OR EXISTING ON SITE, WHICH COULD AFFECT THEIR WORK.
7. IF THE CONTRACTOR OBSERVES OR OTHERWISE BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NONCONFORMANCE WITH THE CONTRACT DOCUMENTS, PROMPT WRITTEN NOTICE THEREOF SHALL BE GIVEN BY THE CONTRACTOR TO THE ARCHITECT AND/OR ENGINEER.
8. THE ENGINEER SHALL NOT HAVE CONTROL OF OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR ALL IMPORT AND EXPORT QUANTITIES AND/OR DISPOSAL/IMPORT COSTS

SHEET INDEX

C0.01	TITLE SHEET
C0.02	GRADING SPECIFICATIONS
C2.00	SITE PLAN, GRADING & UTILITY NOTES
C2.01	GRADING & DRAINAGE PLAN
C2.02	GRADING & DRAINAGE PLAN
C2.03	GRADING & DRAINAGE PLAN
C2.04	GRADING & DRAINAGE PLAN
C2.05	GRADING & DRAINAGE PLAN
C2.06	GRADING & DRAINAGE PLAN
C3.01	DETAILS
C3.02	DETAILS
C3.03	DETAILS
C4.01	CONSTRUCTION BEST MANAGEMENT PRACTICES (SWPPP)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

CLARK CIVIL ENGINEERING
DESIGN • CONSULTING • SURVEY
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PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

DESIGN BY: WCC
DRAWN BY: WC, MD
CCE JOB NO: 225064
SIGNATURE DATE 10/24/25

REGISTERED PROFESSIONAL ENGINEER
WILLIAM C. CLARK
No. 65497
Exp. 09-30-27
CIVIL
STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
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Project 2511
Highlands ES Portables Replacement Project Increment 1
4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet
C0.01
TITLE SHEET

Date
April 10, 2026

1-800-227-2600 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

GENERAL SITE NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER AND CIVIL ENGINEER.
4. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBLE OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
5. CONTRACTOR SHALL REPLACE ALL STRUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC.., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
6. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS, CATCH BASIN, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
7. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE CONSULTING ENGINEER.
8. EXISTING PEDESTRIAN WALKWAYS. BIKE PATHS AND ACCESSIBLE PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRUCTION.
9. IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLANS NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
10. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PAVEMENT RECOMENDATIONS BY GEO-ENGINEERING SOLUTIONS, INC PROJECT NO. 70-1198-B, DATED March 24, 2020
11. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS AND COSTS ASSOCIATED WITH SAID PERMITS

TREE/PLANT PROTECTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY, CONFIRM WITH OWNER AND PROTECT EXISTING TREES AND PLANTS DESIGNED AS TO REMAIN.
2. PROVIDE 6 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCTION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNED TO REMAIN.
3. WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM, AVOID UNNECESSARY MOVEMENT OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK ANY VEHICLES UNDER DRIP LINE OR TREES. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN FENCE LINE.
4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT ARE TO REMAIN, CONSULT WITH THE OWNER'S PROJECT MANAGER.
5. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE ARCHITECT / CIVIL ENGINEER.
6. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIALS; AS WELL AS FROM PADDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
7. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATE TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES AND PLANTS DESIGNED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES OR PLANTS THAT DIE DUE TO LACK OF MAINTENANCE.
9. TREE PROTECTION ZONES NEED TO BE SET UP WITH FENCING AROUND TREES TO A MINIMUM DISTANCE OF 10 FEET FROM THE BUTTRESS FLAIR. NO EQUIPMENT, MATERIALS STORAGE, OR DIGGING IS ALLOWED WITHIN THE TREE PROTECTION ZONE WITHOUT WRITTEN AUTHORIZATION FROM THE PROJECT ARBOHIST, ARBOHIST SUPERVISOR OR AUTHORIZED DESIGNATE. ANY AUTHORIZED DIGGING WITHIN THE TREE PROTECTION ZONE MUST BE DONE BY HAND; I.E. PICK AND SHOVEL: CARE MUST BE TAKEN TO AVOID SEVERING ANY STRUCTURAL ROOTS. ANY ROOTS GREATER THAN 2" IN DIAMETER INCIDENTALLY SEVERED, WHETHER INSIDE OR OUTSIDE OF THE TREE PROTECTION ZONE, WILL NEED TO BE BROUGHT TO THE ATTENTION OF AND INSPECTED BY THE PROJECT ARBOHIST, ARBOHIST SUPERVISOR OR AUTHORIZED DESIGNATE; WHO WILL EVALUATE THE TREE IN QUESTION FOR IMPACTS TO BOTH LONG TERM HEALTH AND STABILITY. ANY ROOT SEVERANCE CONCLUDED TO COMPROMISE TREE STABILITY/SAFETY MAY RESULT IN TREE REMOVAL. ANY COSTS RESULTING FROM TREE REMOVALS WILL BE CHARGED TO THE PROJECT IN QUESTION. ANY COSTS FROM TREE REMOVALS RESULTING FROM VIOLATIONS OF THE COUNTY CODES WILL BE ABSORBED BY THE CONTRACTOR UP TO AND INCLUDING ANY FINES LEVIED BY THE COUNTY.

SITE MAINTENANCE:

1. REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
2. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
3. CONTRACTOR SHALL: GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
4. IF THE STREET, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DEBRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASHED WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER, SUBJECT TO THE APPROVAL OF THE OWNER'S PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
5. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIAL USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
6. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
7. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
8. THE ON-SITE STORM DRAIN FACILITIES SHALL BE CLEANED A MINIMUM OF TWICE A YEAR AS FOLLOWS: IMMEDIATELY PRIOR TO OCTOBER 15TH AND ONCE IN JANUARY. ADDITIONAL CLEANING MAY BE REQUIRED IF FOUND NECESSARY BY THE INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COST ASSOCIATED WITH CLEANING.
9. PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
10. PREVENT SEDIMENT LADEN STORM RUN-OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
11. MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THE SHEET.

STORM DRAIN NOTES:

1. ALL STORM DRAIN PIPE SHALL BE PVC PER SECTION 02720, SLOPED AT 2% UNLESS OTHERWISE SPECIFIED ON THE PLANS. PIPE SHALL BE SIZED AS SPECIFIED ON THE PLANS. ALL DIRECTION CHANGES SHALL BE MADE WITH A Y CONNECTION OR LONG SWEEP ELBOWS, REGULAR ELBOWS, AND TEE'S SHOULD BE AVOIDED.
2. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATE 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION- STORM DRAIN LINE BELOW", CALPICO TYPE 2 OR EQUAL.
3. PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THE WORK OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING". WORDING TO BE BLUE 4" HIGH LETTERS ON A PAINTED WHITE BACKGROUND. A " NO DUMPING"
4. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS AND HAVE BOLT DOWN GRATES.
5. ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TEST BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
6. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO TRENCH OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
7. COMPLETE SYSTEMS; ALL UTILITY SYSTEMS ARE DELINEATED IN SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.

DEMOLITION NOTES:

1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
2. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
3. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED CONTRACTOR SHALL PAY DISPOSAL FEES.
6. CONTRACTOR SHALL PAY DISPOSAL FEES.
7. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
8. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SCRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE PLANS AND SPECS.
9. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
10. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION PLAN & DETAILS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
13. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OF ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
14. COORDINATE WITH ELECTRICAL, MECHANICAL, FIRE PROTECTION AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN / DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE OWNER. DO NOT INTERRUPT SERVICES ADJACENT OFF-SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
15. DEMOLITION INCLUDES REMOVAL OF ALL ITEMS ASSOCIATED WITH THE UTILITIES AND SHALL INCLUDE PREPARING THE SITE FOR NEW UTILITIES, BUILDINGS, RETAINING WALLS, ETC.
16. ALL MATERIALS TO BE DEMOLISHED AND REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF-SITE.
17. THE PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMIINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OR WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.

WATER SYSTEM NOTES:

1. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE THE TOP OF THE SANITARY SEWER LINES.
2. WATER LINES ARE SHOWN SCHEMATICALLY; CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/ OR BEND THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN.
3. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE, TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-WATER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
4. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY/TOWN OR APPLICABLE WATER DISTRICT STANDARDS.
5. PUBLIC AND PRIVATE WATER MAIN AND WATER SERVICE LINE 4-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900, RATED FOR 200 PSI CLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS AND FUSION EPOXY COATED GATE VALVES. ALL JOINTS SHALL FACTORY MANUFACTURED WITH BELL AND SPIGOT ENDS AND RUBBER GASKETS. NONMETALLIC WATER LINES HAVE TRACER WIRE INSTALLED.
6. CONNECTION TO THE EXISTING WATER MAIN SHALL BE APPROVED BY WATER COMPANY. THE DISTRICT SHALL PAY THE ACTUAL COSTS OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION PREPARE THE SITE, FURNISH ALL MATERIALS, INSTALL TAPPING TEE VALVE AND ALL THRUST BLOCKS. BACKFILL, RESTORE THE SURFACE, AND CLEANUP. ALL WET TAPS HALL BE APPROVED BY CALIFORNIA WATER COMPANY (CALWATER). NONMETALLIC WATER LINES SHALL HAVE TRACER WIRES INSTALLED.
7. ALL WATER LINES SHALL BE INSTALLED WITH 3' MINIMUM COVER.
8. ALL WATER VALVES SHALL BE PER CITY STANDARD.
9. ALL TEMPORARY AND/OR PERMANENT AIR-RELEASE AND BLOW-OFF VALVES SHALL BE PER CITY STANDARD AND AS DIRECTED BY THE CITY ENGINEER.
10. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, CROSSINGS, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS PER CITY STANDARD. AWWA C600, SECTION 3.8 UNLESS NOTED OTHERWISE.
11. MECHANICALLY RESTRAINED JOINTS SHALL BE INSTALLED AT VERTICAL BENDS IN ACCORDANCE WITH CITY STANDARDS AND AS APPROVED BY THE CITY ENGINEER.
12. ALL WATER VALVES SHALL BE CLUSTERED, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

SANITARY SEWER NOTES:

1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6"-12" BELOW THE SERVICE IN NON-PAVED AREAS, AND AT THE BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN IMPRINTED WITH "CAUTION- SANITARY SEWER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
2. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE CITY/TOWN OR APPROPRIATE SANITARY SEWER DISTRICT.
3. PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH GLUED JOINTS.

SITE FENCING NOTES:

1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
2. FENCE LOCATION MAY BE ADJUSTED FROM TIME TO TIME AS CONSTRUCTION PROCEEDS TO EXCLUDE SOME AREAS WHERE CONSTRUCTION WORK IS NOT BEING DONE AND THE AREA IS NOT OBJECTIONABLE IN VISUAL APPEARANCE, AT THE DISCRETION AND APPROVAL OF THE DISTRICT STAFF.
3. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK FENCE WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
4. CONTRACTOR SHALL REPLACE THE GREEN FABRIC AT LEAST ONCE A YEAR OR AT SUCH A TIME AS IT BECOMES TATTERED AND UNSIGHTLY DUE TO WIND OR CONSTRUCTION ACTIVITIES.

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REGISTERED PROFESSIONAL ENGINEER
WILLIAM C. CLARK
No. 65497
Exp. 09-30-27
CIVIL
STATE OF CALIFORNIA

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Project 2511

Highlands ES Portables Replacement Project Increment 1

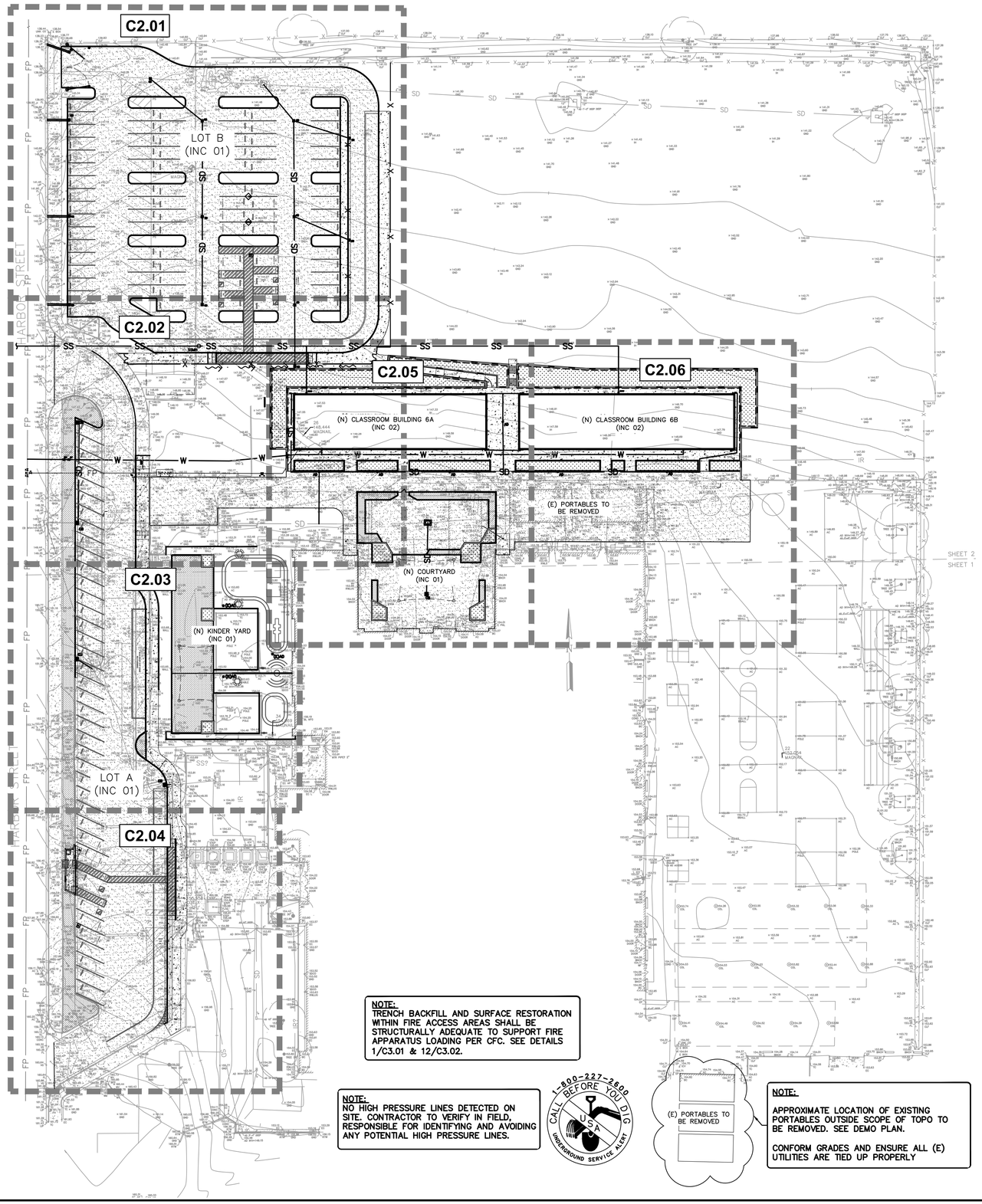
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C0.02

GRADING SPECIFICATIONS

Date
April 10, 2026



0 20 40 80

SCALE: 1" = 40'

GRADING NOTES:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES. UNDERGROUND FACILITIES DAMAGED DURING GRADING SHALL BE REPAIRED AND/OR REPLACED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO CONTRACT. REFER TO TOPOGRAPHIC SURVEY AND UTILITY SURVEY FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE PARTICULATES.

IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE CORONER IMMEDIATELY.

CONTRACTOR VERIFY EXISTING UTILITY STUB LOCATIONS AND DEPTHS PRIOR TO COMMENCING CONSTRUCTION.

FINISHED GRADES SHALL BE SLOPED TOWARD INLETS OR POSITIVE RELEASE AT 0.5% MIN. FOR CONCRETE AND 1% MIN FOR ASPHALT AREAS.

REFER TO ARCHITECTURAL AND/OR LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON FLAT WORK, PAVING TYPE AND SCORING.

REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE PATH OF TRAVEL. GRADES SHALL BE DONE PER FEDERAL AND STATE ACCESSIBILITY REQUIREMENTS. IF CONTRACTOR BECOMES AWARE OF GRADES THAT ARE NOT CONFORMING TO ACCESSIBILITY REQUIREMENTS, HE SHALL BRING THIS TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER.

CUT AND FILL SLOPES AND GRADING TRANSITIONS AT THE OUTER EDGES OF THE PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED AT THREE HORIZONTAL TO ONE VERTICAL (3:1) UNLESS OTHERWISE NOTED.

UTILITY NOTES:

STORM DRAIN PIPING SHALL BE PVC SDR-35 OR BETTER OR DOUBLE WALLED HDPE PIPING ADS N-12 OR APPROVED EQUAL. 6" MIN U.O.N.

CONTRACTOR SHALL VERIFY BUILDING CONNECTIONS AND ELEVATION. THIS INCLUDES RAIN WATER LEADER, SEWER CONNECTION AND WATER CONNECTION. NOTIFY ENGINEER OF ANY CONFLICTS.

DIMENSIONED & PIPE LENGTHS SHOWN ARE NOT MEANT TO PROVIDE BID QUANTITIES FOR CONTRACTOR, SHOWN FOR INFORMATIONAL PURPOSES ONLY.

ALL BUILDING POINTS OF CONNECTION SHALL BE VERIFIED WITH BUILDING PLUMBING DRAWING. NOTIFY ENGINEER OF ANY CONFLICT.

CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE STARTING OF GRADING. NOTIFY THE ENGINEER IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.

THE CONTRACTOR SHALL INCLUDE A PROFESSIONAL UTILITY SURVEY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. UPON COMPLETION, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT AND A COPY SHALL BE GIVEN TO THE DISTRICT AND THE PROJECT ENGINEER.

PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.

ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT, UNLESS NOTED OTHERWISE.

COORDINATE ALL EXISTING AND PROPOSED DRAINAGE SLEEVES, AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.

THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.

CONTRACTOR IS TO ENSURE THAT ALL AREAS ARE GRADED TO PROVIDE POSITIVE DRAINAGE TO IDENTIFIED EXISTING AND PROPOSED DRAIN INLETS.

AREAS OF TRENCHING SHALL BE PATCHED TO MATCH EXISTING CONDITIONS TO LIKE NEW CONDITIONS, INCLUDING BUT NOT LIMITED TO SOD, CONCRETE AND ASPHALT

PHASING:

INCREMENT 1: PARKING LOTS A AND B, KINDER YARD, COURTYARDS, ALL OTHER PAVING, PATHS AND SITE WORK

INCREMENT 2: CLASSROOMS 6A AND 6B

NOTE:
TRENCH BACKFILL AND SURFACE RESTORATION WITHIN FIRE ACCESS AREAS SHALL BE STRUCTURALLY ADEQUATE TO SUPPORT FIRE APPARATUS LOADING PER CFC. SEE DETAILS 1/C3.01 & 12/C3.02.

NOTE:
NO HIGH PRESSURE LINES DETECTED ON SITE. CONTRACTOR TO VERIFY IN FIELD, RESPONSIBLE FOR IDENTIFYING AND AVOIDING ANY POTENTIAL HIGH PRESSURE LINES.

1-800-227-2600 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

(E) PORTABLES TO BE REMOVED

NOTE:
APPROXIMATE LOCATION OF EXISTING PORTABLES OUTSIDE SCOPE OF TOPO TO BE REMOVED. SEE DEMO PLAN.

CONFORM GRADES AND ENSURE ALL (E) UTILITIES ARE TIED UP PROPERLY

NOTE:
EXISTING FEATURES SHOWN IN LIGHTER GRAY WHILE BLACK LINEWORK SIGNIFIES NEW DEVELOPMENT- TYP. ALL PLANS

NOTE:
ANY UTILITIES, CURBS, GUTTERS, UTILITY BOXES & SIDEWALKS TO REMAIN THAT ARE DAMAGED DURING ANY PHASE OF DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO LIKE NEW CONDITION AT THE CONTRACTORS EXPENSE.

NOTE:
PRIOR TO BEGINNING WORK AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES TO THE CIVIL ENGINEER AND ARCHITECT.

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REGISTERED PROFESSIONAL ENGINEER WILLIAM C. CLARK No. 65497 Exp. 09-30-27 STATE OF CALIFORNIA CIVIL

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Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
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C2.00

SITE PLAN
GRADING & UTILITY NOTES

Date
April 10, 2026

NOTE:
EXISTING FEATURES SHOWN IN LIGHTER GRAY WHILE BLACK LINEWORK SIGNIFIES NEW DEVELOPMENT– TYP. ALL PLANS

NOTE:
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ANNOTATION NOTES

1. PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE PER ADA/CBC STANDARDS.
2. MATCH EXISTING ASPHALT OR CONCRETE.
3. FOLLOW GRADES PER CIVIL PLAN. NO SLOPE MAY EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION PER ADA/CBC STANDARDS.
4. FOLLOW GRADES PER CIVIL PLAN. MAX SLOPE OF 5% IN DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE FOR ALL ACCESSIBLE ROUTES.
5. ACCESSIBLE PARKING SIGNAGE, SEE DETAILS 8/A2.02 & 10/A2.02. MAINTAIN 4 FOOT PATH OF TRAVEL WHEN INSTALLING.

SCALE: 1" = 10'

(N) PIPE RAIL GATE
(N) CATCH BASIN TO REPLACE (E) IN LOCATION, CONNECT TO EXISTING THRU CURB DRAINS –TYP
(ALL 4 THRU CURB DRAINS)
CONFORM TO (E) GRADES OF SIDEWALK, PROVIDE SMOOTH TRANSITION
(N) TOW AWAY PARKING SIGNAGE
RE USE EXISTING THROUGH CURB DRAINING– TYP.
(E) CONCRETE SIDEWALK TO REMAIN, SHOWN HATCHED
(N) 6" CURB AND GUTTER
(N) ASPHALT PAVING
(N) BOLLARD–MOUNTED KNOX BOX
COMPACT SPOT DUE TO DRAIN
(N) 4" WHITE PARKING STRIPE. –TYP.
20' – TYP.
9' – TYP.
(N) WHEEL STOPS. –TYP.
8" STORM DRAIN @1% MIN
6" STORM DRAIN @1% MIN
(N) EV CHARGE STATIONS
(N) EV CHARGE STATION
18' – TYP.
2% MAX WITHIN DASHED AREA AS PER ANNOTATION NOTE 3 (DESIGNED TO 1.9% MAX)
(N) ACCESSIBLE PARKING AREA
ACCESSIBLE PARKING SYMBOL– TYP.
(N) ACCESSIBLE SIGN.
(N) RAISED CONCRETE WALKWAY
(N) STRIPING
(N) 4' FENCE
(N) 6" CURB
(N) CONCRETE PAVING
(N) 6" CURB AND GUTTER
MATCH LINE C2.1–C2.2

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C2.01

GRADING & DRAINAGE PLAN

Date
April 10, 2026

ANNOTATION NOTES

1. PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE PER ADA/CBC STANDARDS.
2. MATCH EXISTING ASPHALT OR CONCRETE.
3. FOLLOW GRADES PER CIVIL PLAN. NO SLOPE MAY EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION PER ADA/CBC STANDARDS.
4. FOLLOW GRADES PER CIVIL PLAN. MAX SLOPE OF 5% IN DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE FOR ALL ACCESSIBLE ROUTES.

(N) CLASSROOM BUILDING 6A
FF: 152.29
PAD: 151.29
(INC 02)

SCALE: 1" = 10'

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Highlands ES Portables Replacement Project Increment 1

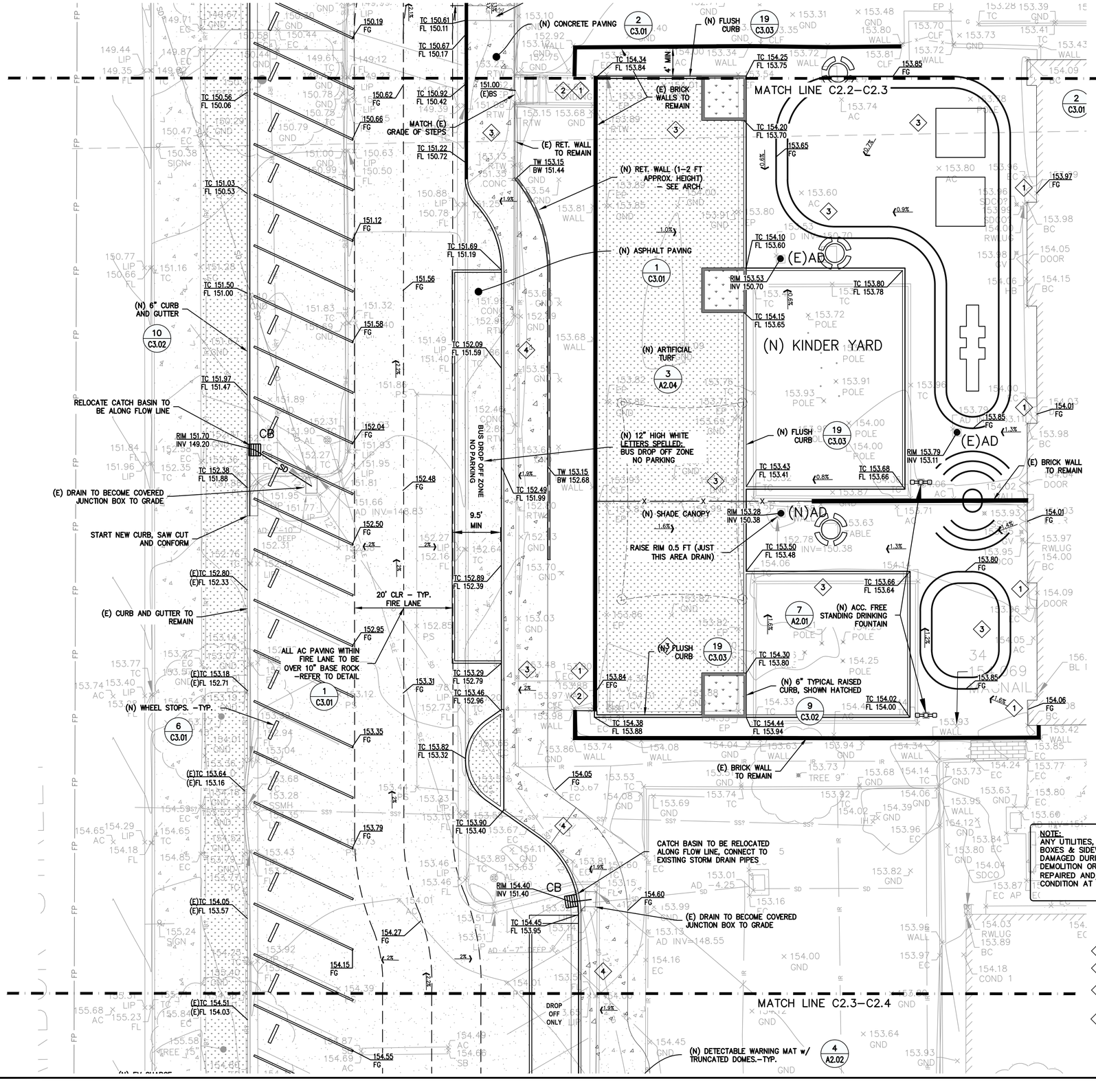
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GRADING & DRAINAGE PLAN

Date
April 10, 2026



0 5 10 20

SCALE: 1" = 10'

NOTE:
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NOTE:
ANY UTILITIES, CURBS, GUTTERS, UTILITY BOXES & SIDEWALKS TO REMAIN THAT ARE DAMAGED DURING ANY PHASE OF DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO LIKE NEW CONDITION AT THE CONTRACTORS EXPENSE.

NOTE:
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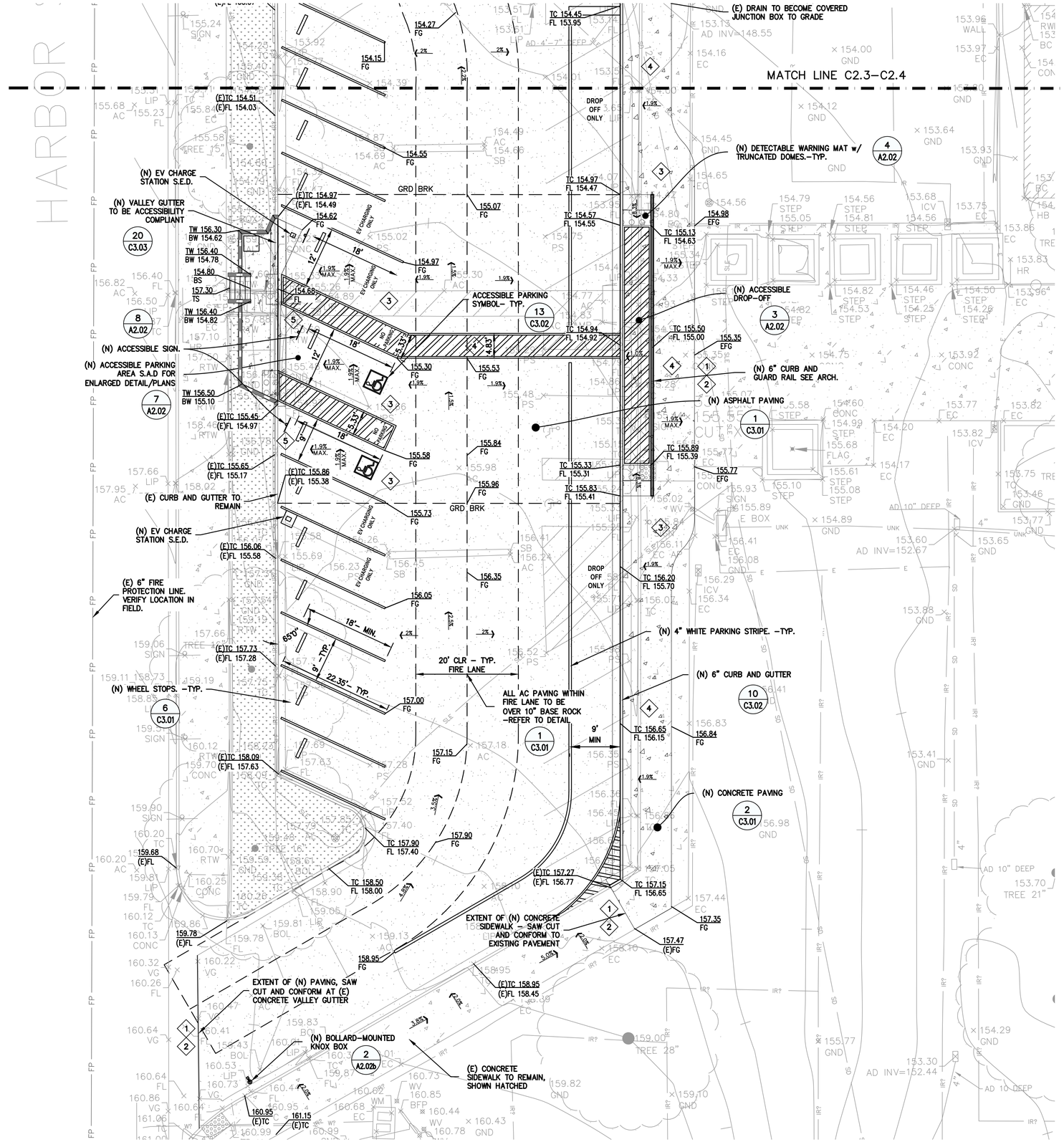
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GRADING & DRAINAGE PLAN

Date
April 10, 2026



0 5 10 20

SCALE: 1" = 10'

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NOTE:
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Project 2511

Highlands ES Portables Replacement Project Increment 1

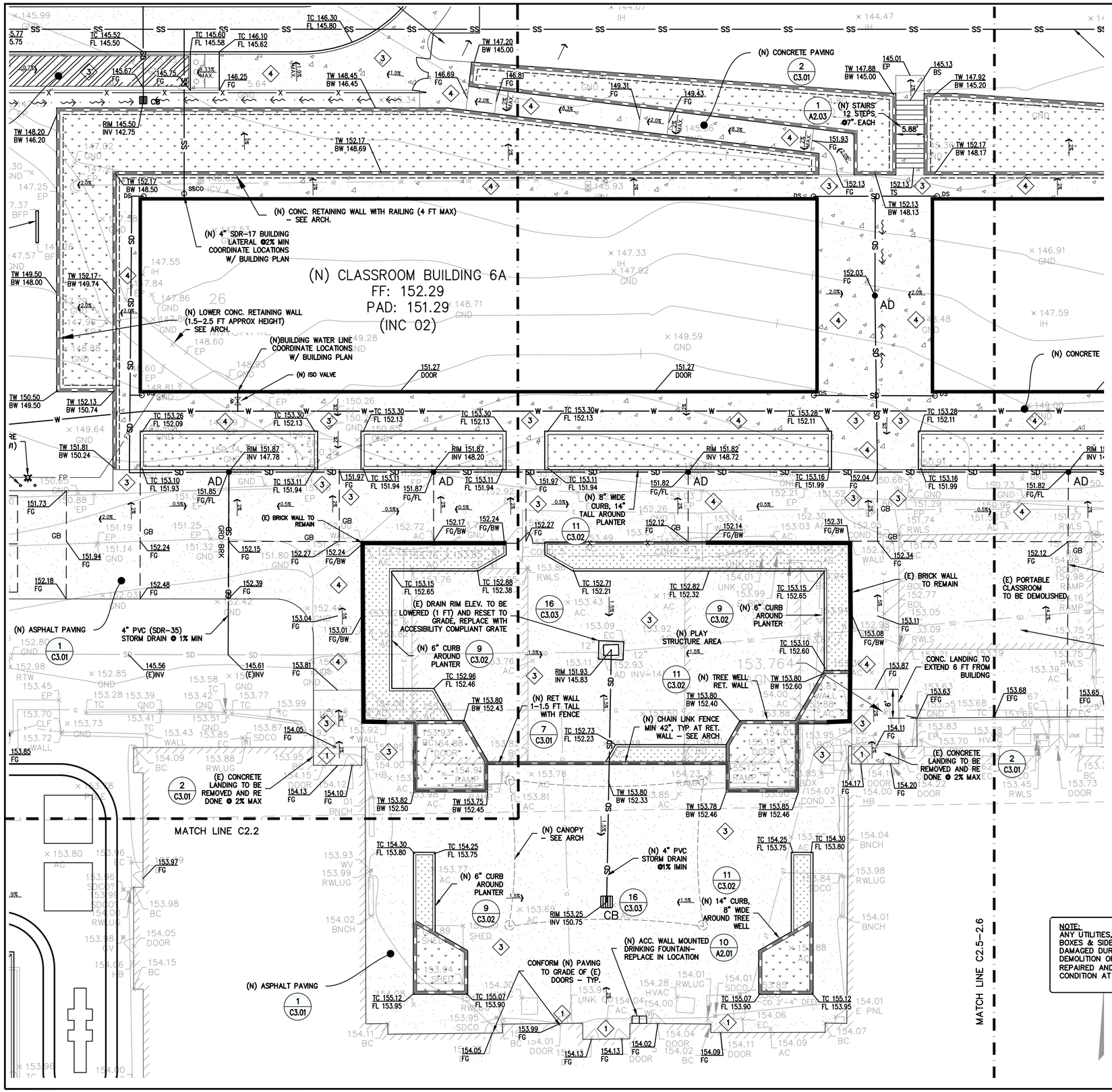
4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

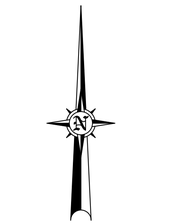
Sheet

C2.04

GRADING & DRAINAGE PLAN

Date
April 10, 2026







EARTHWORK AND SOILS NOTES:

1. ALL EARTHWORK, INCLUDING EXCAVATION, SUBGRADE PREPARATION, FILL PLACEMENT, AND COMPACTION, SHALL CONFORM TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT.
2. SUBGRADE SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO THE REQUIRED RELATIVE COMPACTION. THE CONTRACTOR SHALL MAINTAIN PROPER MOISTURE CONTENT DURING ALL EARTHWORK OPERATIONS.
3. ONLY APPROVED ON-SITE OR IMPORTED SOILS SHALL BE USED. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. CONTRACTOR SHALL INCLUDE IMPORT/EXPORT MATERIAL AND PLACEMENT OF MATERIAL & HAULING WITHIN BID PRICE.

ANNOTATION NOTES

1. PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE PER ADA/CBC STANDARDS.
3. FOLLOW GRADES PER CIVIL PLAN. NO SLOPE MAY EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION PER ADA/CBC STANDARDS.
4. FOLLOW GRADES PER CIVIL PLAN. MAX SLOPE OF 5% IN DIRECTION OF TRAVEL(8.33% MAX SLOPE ALLOWED AT RAMP) AND 2% MAX CROSS SLOPE FOR ALL ACCESSIBLE ROUTES.

NOTE:
ANY UTILITIES, CURBS, GUTTERS, UTILITY BOXES & SIDEWALKS TO REMAIN THAT ARE DAMAGED DURING ANY PHASE OF DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO LIKE NEW CONDITION AT THE CONTRACTORS EXPENSE.

NOTE:
PRIOR TO BEGINNING WORK AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES TO THE CIVIL ENGINEER AND ARCHITECT.

*** BUILDING PAD NOTE:**
ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION AND GEOTECHNICAL REPORT FOR SUBGRADE RECOMMENDATIONS..

NOTE:
EXISTING FEATURES SHOWN IN LIGHTER GRAY WHILE BLACK LINEWORK SIGNIFIES NEW DEVELOPMENT– TYP. ALL PLANS

IDENTIFICATION STAMP
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5500 Nicasio Valley Road, Nicasio, CA
PH: 415-295-4450

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

DESIGN BY: WCC
DRAWN BY: WC, MD
CCE JOB NO: 225064
SIGNATURE DATE 10/24/25

REGISTERED PROFESSIONAL ENGINEER
WILLIAM C. CLARK
No. 65497
Exp. 09-30-27
CIVIL
STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

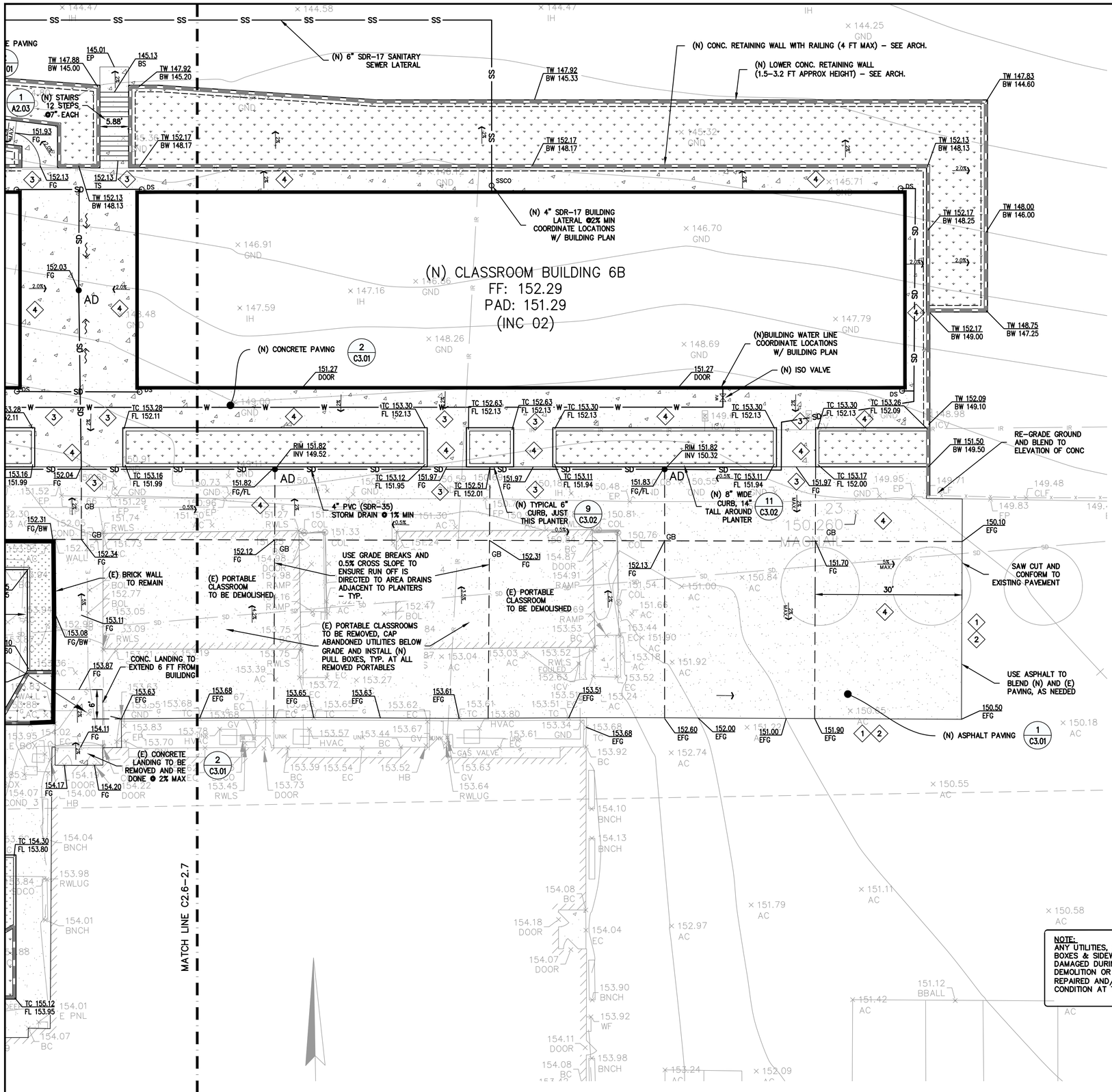
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C2.05

GRADING & DRAINAGE PLAN

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April 10, 2026



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3. ONLY APPROVED ON-SITE OR IMPORTED SOILS SHALL BE USED. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. CONTRACTOR SHALL INCLUDE IMPORT/EXPORT MATERIAL AND PLACEMENT OF MATERIAL & HAULING WITHIN BID PRICE.

ANNOTATION NOTES

1. PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE PER ADA/CBC STANDARDS.
2. MATCH EXISTING ASPHALT OR CONCRETE.
3. FOLLOW GRADES PER CIVIL PLAN. NO SLOPE MAY EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION PER ADA/CBC STANDARDS.
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NOTE:
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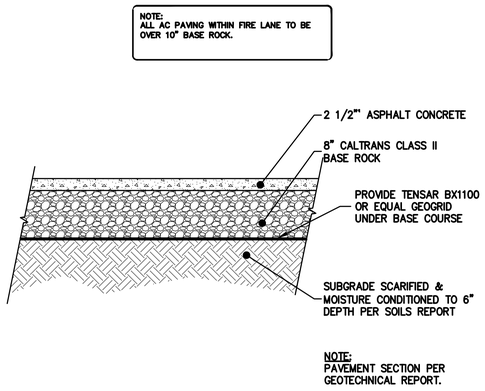
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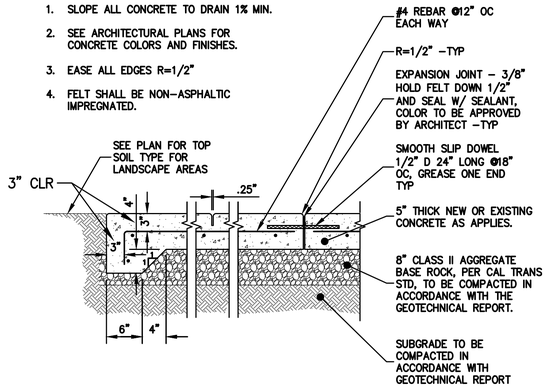
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GRADING & DRAINAGE PLAN

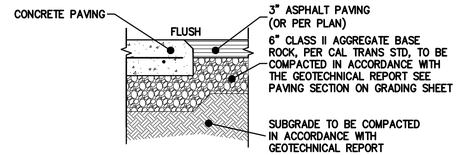
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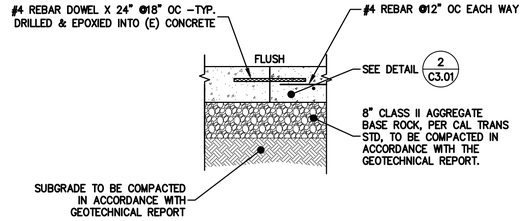
1 C3.01 **ASPHALT SECTION**
NTS



2 C3.01 **CONCRETE PAVING**
NTS

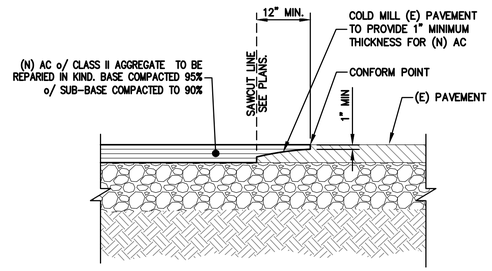


TYP. CONNECTION BETWEEN CONCRETE WALKWAY AND AC PAVING
NTS



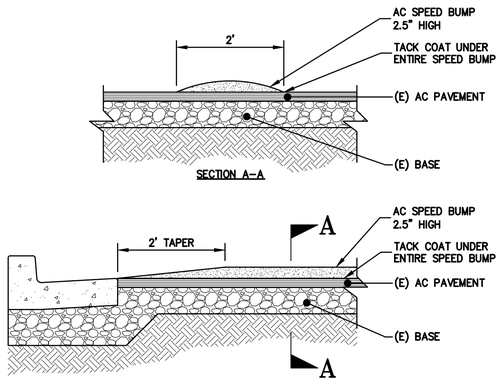
3 C3.01 **CONNECTION (N) TO (E) CONCRETE PAVING**
NTS

NOTE:
REFER TO ARCHITECTURAL PLAN FOR ADDITIONAL INFORMATION ON CONCRETE PAVING.

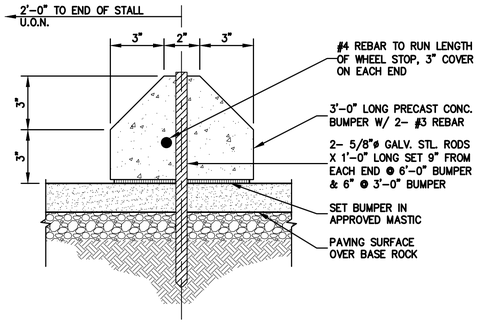


NOTES:
1. TIE-IN PAVEMENT SECTION AS SHOWN ON PLANS.
2. TIE-IN OF ASPHALT CONCRETE SHALL EXTEND TO AT LEAST THE BOTTOM OF EXISTING ASPHALT CONCRETE.

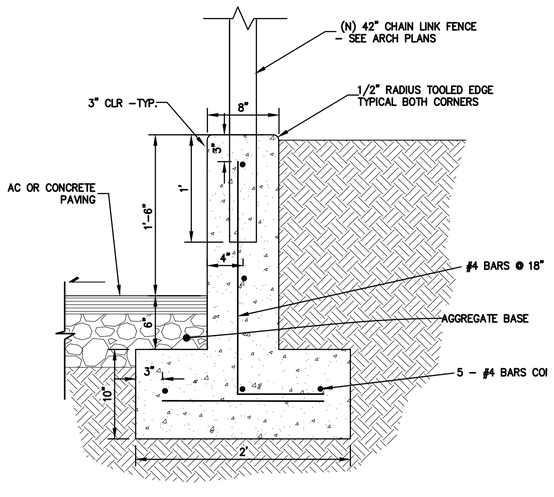
4 C3.01 **PAVEMENT TIE-IN**
NTS



5 C3.01 **SPEED BUMP**
NTS



6 C3.01 **WHEEL STOP**
NTS



7 C3.01 **1.5 FT RET. WALL W/ FENCE**
NTS

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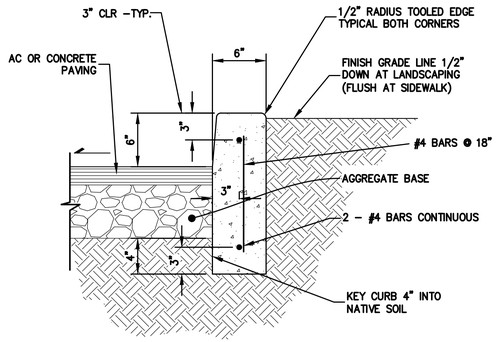
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C3.01

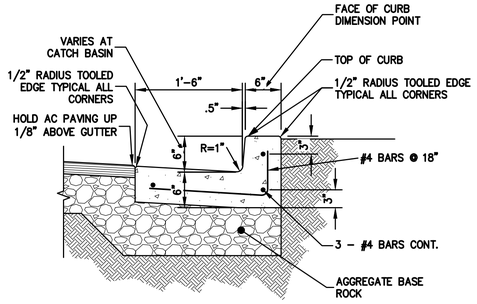
DETAILS

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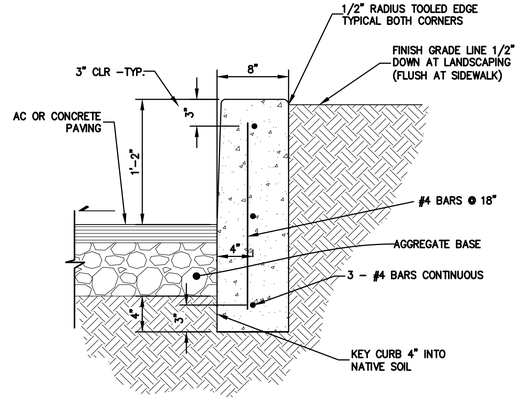
NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS AT 15" O.C.

9 C3.02 **TYPICAL CURB**
NTS



NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS @ 15'-0" O.C.

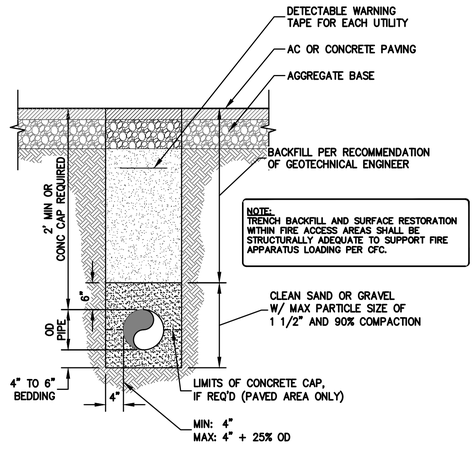
10 C3.02 **CURB AND GUTTER DETAIL**
NTS



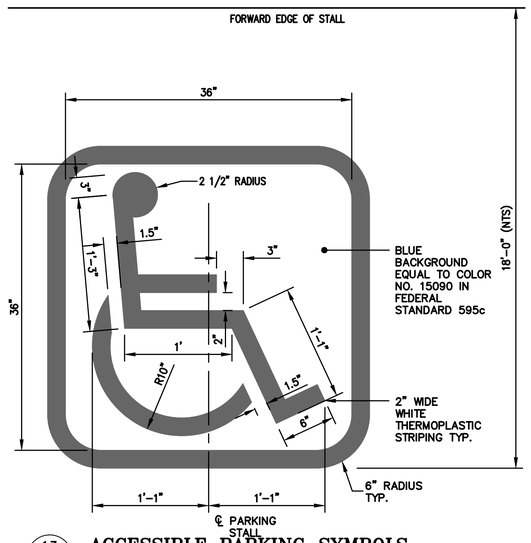
NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS AT 15" O.C.

11 C3.02 **14" CURB**
NTS

NOTE:
- ALL FIRE HYDRANTS SHALL HAVE A 3-FOOT CIRCUMFERENCE OF CLEAR SPACE AND AN 18 INCH CLEARANCE FROM THE CENTER OF THE 4½" DISCHARGE TO FINISHED GRADE LEVEL. CFC 507.5.5
- THE POST INDICATOR VALVES (PIV) SHALL BE SET SO THAT THE TOP OF THE POST WILL BE 32" TO 40" ABOVE FINISHED GRADE. NFPA 24, 6.3.1
- ALL FIRE HYDRANTS SHALL BE INSTALLED WITH BREAK-OFF BOLTS AND/OR BREAK-OFF SPOOLS.
- ALL MECHANICAL JOINTS ON FIRE SERVICE LINES AND FIRE SPRINKLER LATERALS SHALL BE CLEANED AND THOROUGHLY COATED WITH CORROSION RETARDING MATERIAL. NFPA 24, 10.4.1.1



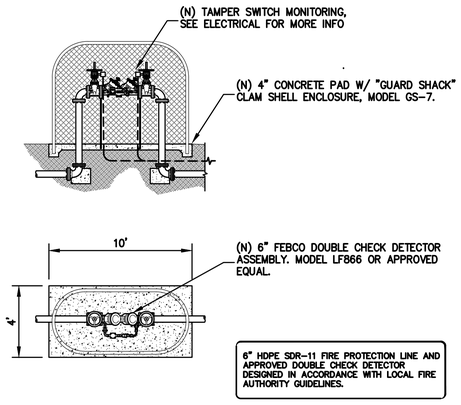
12 C3.02 **TRENCHING / PIPELINE BACKFILL**
NTS



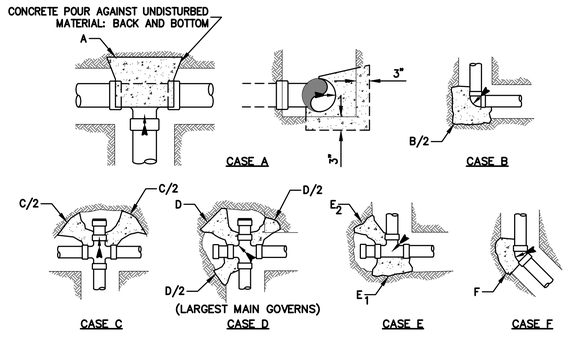
13 C3.02 **ACCESSIBLE PARKING SYMBOLS**
NTS

NOTE:
PROVIDE PERMANENT SIGNAGE IDENTIFYING FIRE SERVICE COMPONENTS AND VALVE FUNCTIONS. ALL VALVES SHALL BE CLEARLY LABELED.

NOTE:
ALL CONTROL VALVES SHALL BE PROVIDED WITH SUPERVISORY TAMPER SWITCHES AND CONNECTED TO THE FIRE ALARM SYSTEM.



14 C3.02 **DOUBLE CHECK DETECTOR**
NTS



NOTES:
1. CASE "A" IS TYPICAL FOR ALL.
2. ALL BLOCKS TO BE KEPT CLEAR OF LUGS.
3. UNSUPPORTED SURFACES TO BE FORMED.
4. ARROWS ON CASE "A", "C" & "E" INDICATE MAINS WHICH DETERMINE BEARING AREA.
5. BASED ON 150 PSI PRESSURE, 1,000 PSF SOIL BEARING.
6. CONCRETE SHALL BE CLASS B PER STANDARD SPECIFICATIONS.

REQUIRED BEARING AREAS-SQ.FT.							
	A	B	C	D	E_1	E_2	F
4"	2	3	3	3	2	3	2
6"	5	6	7	7	5	7	4
8"	8	12	11	11	8	11	6
10"	12	18	17	17	12	17	8
12"	17	24	24	24	17	24	12

15 C3.02 **THRUST BLOCK DETAIL**
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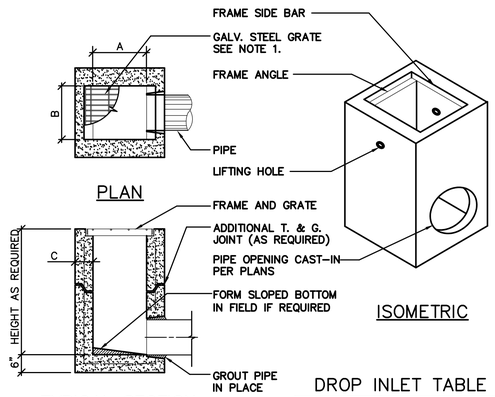
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C3.02

DETAILS

Date
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TYPICAL SECTION

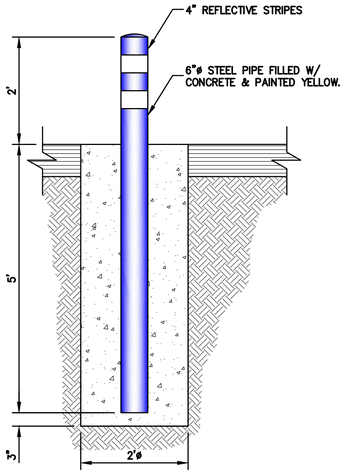
NOTES:

1. ADA COMPLIANT GRATE TO HAVE A 1/2" GAP MAXIMUM IN ANY DIRECTION.
2. FRAMES AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR H20 TRAFFIC LOADING. ALL GRATES ARE BICYCLE PROOF. OPTIONAL GRATE LOCKING DEVICE AVAILABLE ON REQUEST SEE DRAWING "LOCK" ON PAGE 1-7. CLOSED- MESH GRATES OR CAST IRON FRAME AND GRATES ARE AVAILABLE ON REQUEST.
3. FOR SURFACE AND DISCHARGE OPTIONS AVAILABLE SEE DRAWING NO. "DI-30" PAGE 1-6 AND "DI-00" PAGE 1-5.
4. FRAMES AND GRATES DETAILS SEE PAGES 1-8, 1-9, AND 1-10.
5. WALL THICKNESSES ON ALL D.I.S. CAN BE CHANGED UPON REQUEST.
6. 18" WIDE D.I.'S REPLACE THE OLD 16" WIDE BOX 8K & 1K.

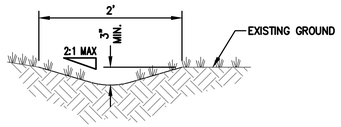
DROP INLET TABLE

MODEL No.	CPC MODEL NAME	A		B		C	
		IN	MM	IN	MM	IN	MM
CP1212	EK	12	300	12	300	4	100
CP1818	CK	18	450	18	450	5	125
CP1824	1K*	18	450	24	600	5	125
CP2424	2K	24	600	24	600	5	125
CP2430	3K	24	600	30	750	5	125
CP3030	5K	30	750	30	750	6	150
CP2436	1L	24	600	36	900	6	150
CP3636	1M	36	900	36	900	6	150
CP2448	3L	24	600	48	1200	6	150
CP3648	3M	36	900	48	1200	6	150
CP4848	1R	48	1200	48	1200	6	150

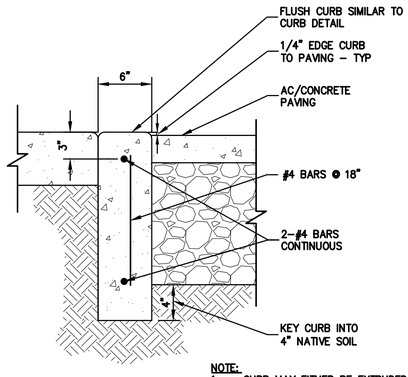
16 / C3.03 **CENTRAL PRECAST CATCH BASIN DETAIL**
NTS



17 / C3.03 **BOLLARD**
NTS



18 / C3.03 **EARTHEN SWALE DETAIL**
NTS

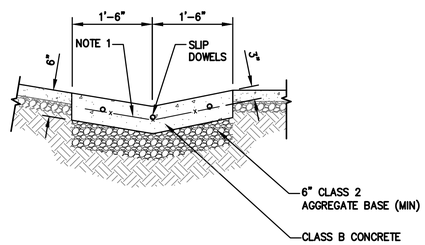


NOTE:
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
2. PROVIDE EXPANSION JOINTS @ 15'–0" O.C.

19 / C3.03 **FLUSH CURB**
NTS

NOTES:

1. REINFORCEMENT SHALL CONSIST OF 6"X6" –6GA. WELDED WIRE FABRIC.
2. APRONS SHALL BE POURED MONOLITHIC WITH ADJACENT CURB AND GUTTER.
3. CONCRETE VALLEY GUTTER AND APRONS SHALL BE INSTALLED PRIOR TO PAVING.
4. PLACE 1/2" DIAMETER X 18" LONG DOWELS, AT EXPANSION JOINTS, AS SHOWN.
5. PLACE 1/4" THICK EXPANSION JOINTS FULL WIDTH 20' ON CENTER. DEEP SCORE AT 10' INTERVALS BETWEEN EXPANSION JOINTS.



20 / C3.03 **CONCRETE VALLEY GUTTER**
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SIGNATURE DATE 10/24/25

REGISTERED PROFESSIONAL ENGINEER
WILLIAM C. CLARK
No. 65497
Exp. 09-30-27
STATE OF CALIFORNIA
CIVIL

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

C3.03

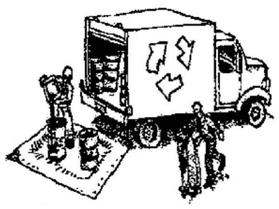
DETAILS

Date
April 10, 2026

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ❑ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ❑ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ❑ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ❑ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ❑ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ❑ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ❑ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ❑ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ❑ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ❑ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ❑ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



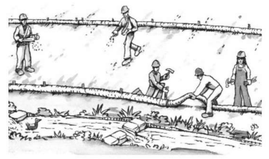
Maintenance and Parking

- ❑ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ❑ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ❑ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ❑ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, steam cleaning equipment, etc.

Spill Prevention and Control

- ❑ Keep spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ❑ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ❑ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ❑ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthwork & Contaminated Soils



Erosion Control

- ❑ Schedule grading and excavation work for dry weather only.
- ❑ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ❑ Seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.

Sediment Control

- ❑ Protect storm drain inlets, gutters, ditches, and drainage courses with appropriate BMPs, such as gravel bags, fiber rolls, berms, etc.
- ❑ Prevent sediment from migrating offsite by installing and maintaining sediment controls, such as fiber rolls, silt fences, or sediment basins.
- ❑ Keep excavated soil on the site where it will not collect into the street.
- ❑ Transfer excavated materials to dump trucks on the site, not in the street.
- ❑ Contaminated Soils
- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
  - ■ Unusual soil conditions, discoloration, or odor.
  - ■ Abandoned underground tanks.
  - ■ Abandoned wells
  - ■ Buried barrels, debris, or trash.

Paving/Asphalt Work



- ❑ Avoid paving and seal coating in wet weather, or when rain is forecast before fresh pavement will have time to cure.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ❑ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

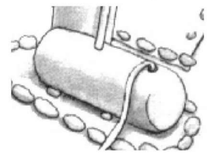
- ❑ Completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ❑ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ❑ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



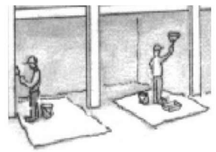
- ❑ Store concrete, grout and mortar under cover, on pallets and away from drainage areas. These materials must never reach a storm drain.
- ❑ Wash out concrete equipment/trucks offsite or in a contained area, so there is no discharge into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ❑ Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal offsite.

Dewatering



- ❑ Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Divert run-on water from offsite away from all disturbed areas or otherwise ensure compliance.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine whether testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Painting & Paint Removal



Painting cleanup

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or surface waters.
- ❑ For water-based paints, paint out brushes to the extent possible. Rinse to the sanitary sewer once you have gained permission from the local wastewater treatment authority. Never pour paint down a drain.
- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of residue and unusable thinner/solvents as hazardous waste.

Paint removal

- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyltin must be disposed of as hazardous waste.
- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.

Landscape Materials



- ❑ Contain stockpiled landscaping materials by storing them under tarps when they are not actively being used.
- ❑ Stack erodible landscape material on pallets. Cover or store these materials when they are not actively being used or applied.
- ❑ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

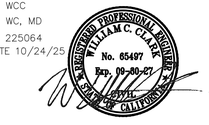
Storm drain polluters may be liable for fines of up to $10,000 per day!

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

CLARK CIVIL ENGINEERING
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DESIGN BY: WCC
DRAWN BY: WC, MD
CCE JOB NO: 225064
SIGNATURE DATE 10/24/25



Revisions	
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Project 2511

Highlands ES Portables Replacement Project Increment 1

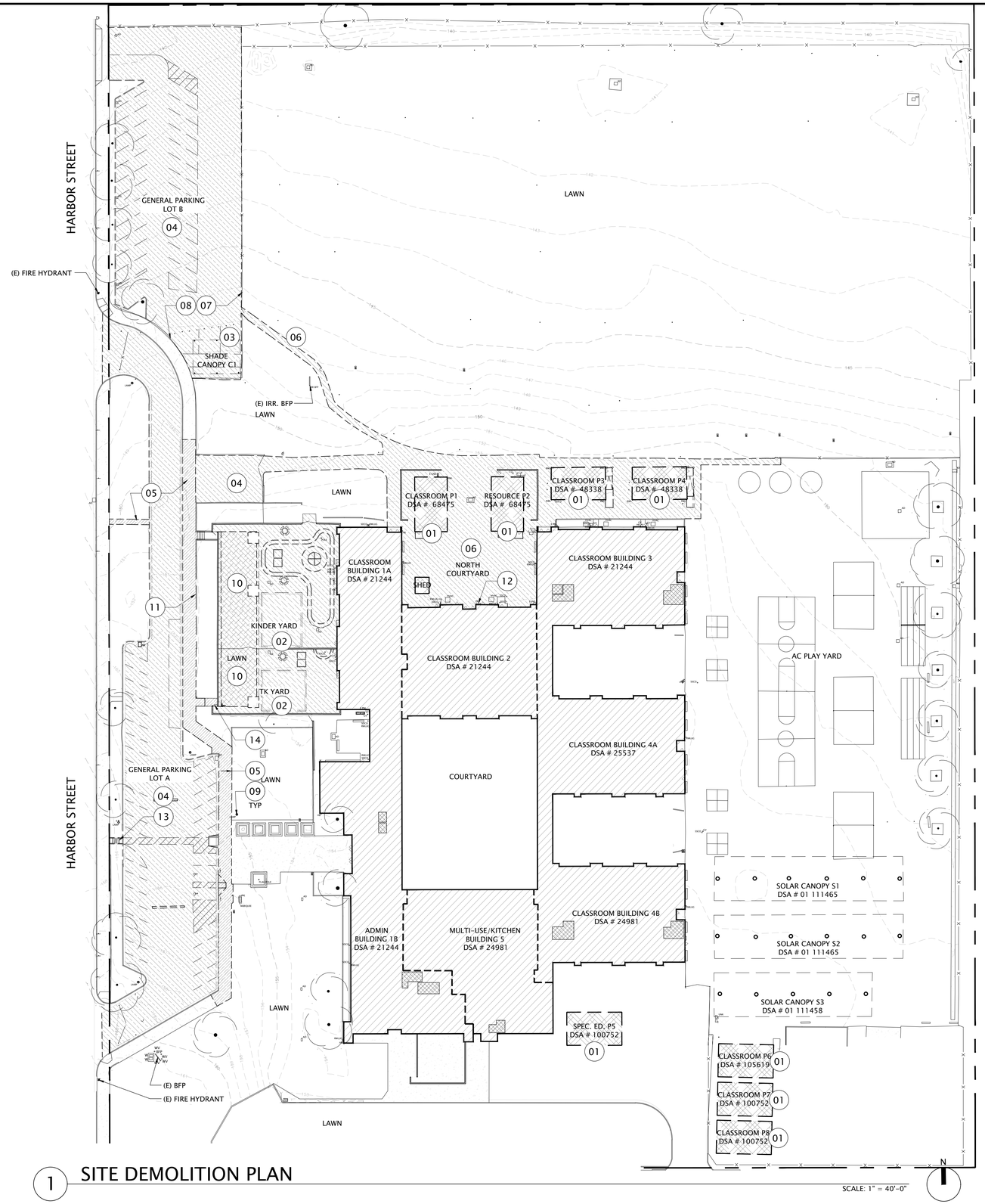
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Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

C4.01

CONSTRUCTION BEST MANAGEMENT PRACTICES
(SWPPP)

Date
April 10, 2026



1 SITE DEMOLITION PLAN

SHEET NOTES

A. FOR EARTHWORK, UTILITIES & SITEWORK FINDINGS & RECOMMENDATIONS SEE "GEOTECHNICAL ENGINEERING AND GEOLOGIC HAZARDS STUDY, HIGHLANDS ELEMENTARY SCHOOL NEW CLASSROOM BUILDINGS 4141 HARBOR STREET, PITTSBURG, CALIFORNIA 94565" DATED OCTOBER 8, 2025, BY GEO-ENGINEERING SOLUTIONS, INC AND REVISIONS. ALL REFERENCES TO "GEOTECHNICAL (OR GEOTECH) REPORT" SHALL BE REFERRING TO THIS INVESTIGATION REPORT.
B. FOR RELATED WORK SEE CIVIL, ELECTRICAL, IRRIGATION & PLANTING DRAWINGS.
C. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ENGAGE A CALIFORNIA REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR TO PERFORM FIELD ENGINEERING AND THOROUGHLY REVIEW "TOPOGRAPHIC SURVEY, HIGHLANDS ELEMENTARY SCHOOL" PREPARED BY CARROLL ENGINEERING ENGINEERS & SURVEYORS DATED AUGUST 21, 2025." NOTIFY ARCHITECT OF DISCREPANCIES.
D. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, LOCATE AND IDENTIFY (E) UNDERGROUND UTILITIES & SUBSTRUCTURES. PROTECT SAME FROM DAMAGE & DISLODGEMENT. NOTIFY ARCHITECT OF UNFORESEEN CONDITIONS IN CONFLICT WITH NEW WORK FOR RESOLUTION; PRIOR TO COMMENCEMENT OF DEMOLITION.
E. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, CLEAR AREA OF EXISTING VEGETATION, ORGANIC LADEN SOILS, BUILDING MATERIALS, LOOSE SOIL, PAVEMENT SECTIONS & DEBRIS. HAZARDOUS MATERIALS MITIGATION REQUIREMENTS ARE PER PUSD GENERAL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL AND RECORDING OF DEBRIS PER STATE & LOCAL ORDINANCES.
F. EXISTING UNDERGROUND UTILITIES INDICATED TO BE ABANDONED OR REMOVED SHALL BE CUT & REMOVED FROM AREA OF WORK, CAP ENDS OF (E) UTILITIES. BACK FILL WITH APPROVED COMPACTED FILL. S.C.D., S.E.D, & S.IR.D.
G. FURNISH & INSTALL DESIGN-BUILD, ENGINEERED, TEMPORARY SHORING WHERE REQUIRED TO RETAIN (E) SURROUNDING ELEMENTS. PERFORM TEMPORARY EXCAVATIONS PER GEOTECH REPORT AND REVISIONS.
H. STOCKPILE ON SITE SOIL GENERATED FROM CUT AREAS FOLLOWING CLEARING & GRUBBING THAT IS FREE OF EXCESS ORGANIC MATERIAL OR DEBRIS FOR USE AS STRUCTURAL FILL IN TRENCHES. IMPORT FILL AS REQUIRED AND FOR ALL LANDSCAPING. OFFHAUL AND DISPOSE OF UNUSED EXCAVATION SOIL. ALL ITEMS SHOULD BE IN ACCORDANCE WITH GEOTECH REPORT.
I. SUBGRADE SOILS IN AREAS TO RECEIVE ENGINEERED FILL SHOULD BE SCARIFIED MINIMUM SIX (6) INCHES; MOISTURE CONDITIONED TO TWO (2) PERCENT OVER OPTIMUM MOISTURE CONTENT AND COMPACTED TO THE RECOMMENDATIONS GIVEN IN ENGINEERING FILL PLACEMENT AND COMPACTION OF GEOTECH REPORT. UTILITY TRENCHES: CONSTRUCTION PER GEOTECH REPORT, TRENCH FILL PLACEMENT AND COMPACTION AS INDICATED.
J. TEMPORARY PROTECTION: PROTECT EXISTING TREES, FENCE, GATES, STRIPING, ASPHALT AND FLATWORK, CURBS, WALLS, UTILITIES & OTHER ELEMENTS INDICATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION. REMOVE TEMPORARY PROTECTION AT END OF CONSTRUCTION. RESTORE EXISTING SURROUNDING ELEMENTS AS REQUIRED.
K. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
L. CONTRACTOR SHALL REPLACE IN KIND ALL LANDSCAPE AND MIN. 6" SUBGRADE WITHIN EXISTING LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION
M. CONTRACTOR SHALL EXTEND IRRIGATION SYSTEM TO ALL PLANTING AREAS. REPAIR CONCRETE WALKWAYS, CURBS AND ASPHALT TO MATCH (E) ADJACENT WHERE REMOVED FOR TRENCHING. S.C.D. & S.IR.D.
N. CONTRACTOR SHALL OBTAIN ALL UTILITY AND/OR ENCROACHMENT PERMITS.
O. CONTRACTOR SHALL REPLACE IN KIND ALL PLAY STRIPING AREAS AT EXISTING TK/KINDER YARD DISTURBED DURING CONSTRUCTION.
P. CONTRACTOR SHALL COORDINATE IRRIGATION WITH OTHER UTILITY WORK PER DRAWINGS.
Q. FOR EXCAVATION DEPTH AT TREE WELLS, SEE 11&12/A3.03 & PLANTING KEY, A3.02. FOR PLANTING, SEE PLANTING PLANS A3.02.

KEYNOTES

01 REMOVE EXISTING PORTABLE CLASSROOM, RAMP, AND FOUNDATIONS. CAP UTILITIES AT GRADE IN TRAFFIC-RATED PULL-BOXES, S.C.D.
02 REMOVE & REPLACE EXISTING PLAY EQUIPMENT & SURFACING IN LOCATION.
03 REMOVE EXISTING SHADE CANOPY AND ADJACENT TRAFFIC BOLLARDS.
04 REMOVE EXISTING ASPHALT DRIVE AISLE AND PARKING AREAS, S.C.D.
05 REMOVE EXISTING CONC. SIDEWALK, CURB AND GUTTER, S.C.D.
06 REMOVE EXISTING ASPHALT PAVING, WALKWAYS AND SHED AT NORTH COURTYARD. PROTECT EXISTING BRICK SITE WALLS IN PLACE, S.C.D.
07 REMOVE FENCING, POSTS AND FOOTINGS BETWEEN GENERAL PARKING LOT B AND CAMPUS/FIELD.
08 REMOVE SEGMENT(S) OF EXISTING FENCING FOR INSTALLATION OF NEW PEDESTRIAN GATE, S.C.D.
09 REMOVE EXISTING LAMP, POLE AND FOUNDATION, TYP OF (5) AT GENERAL PARKING LOT A.
10 CLEAR EXISTING LAWN AREA AND EXCAVATE PER 4/A2.04 AND GEOTECHNICAL RECOMMENDATIONS FOR INSTALLATION OF ARTIFICIAL TURF.
11 REMOVE EXISTING CONCRETE RETAINING WALL. PROTECT ADJACENT BRICK SITE WALL IN PLACE, S.C.D.
12 REMOVE & REPLACE EXISTING WALL-MOUNTED DRINKING FOUNTAIN IN PLACE.
13 REMOVE & REPLACE EXISTING CONC. SITE STAIR IN KIND.
14 REMOVE & REPLACE EXISTING PEDESTRIAN GATE IN LOCATION. PROTECT (E) POSTS TO REMAIN.

LEGEND

EXISTING BUILDING TO REMAIN
EXISTING BUILDING TO BE REMOVED
EXISTING ITEM TO BE REMOVED
EXISTING CONCRETE PAVING TO BE REMOVED
EXISTING ASPHALT PAVING TO BE REMOVED
AREA OF EXISTING PLAY SURFACING, ASPHALT BASE PAVING AND SUBSURFACE TO BE REMOVED
AREA OF EXISTING GRASS LAWN TO BE REMOVED, CLEARED AND EXCAVATED FOR INSTALLATION OF ARTIFICIAL TURF FIELD
05 KEYNOTE, SEE ABOVE

IDENTIFICATION STAMP
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DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

LICENSED ARCHITECT ROBERTA ANN PLUM C28332 Ren.06-30-27 STATE OF CALIFORNIA

Revisions

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Project 2511

Highlands ES Portables Replacement Project Increment 1

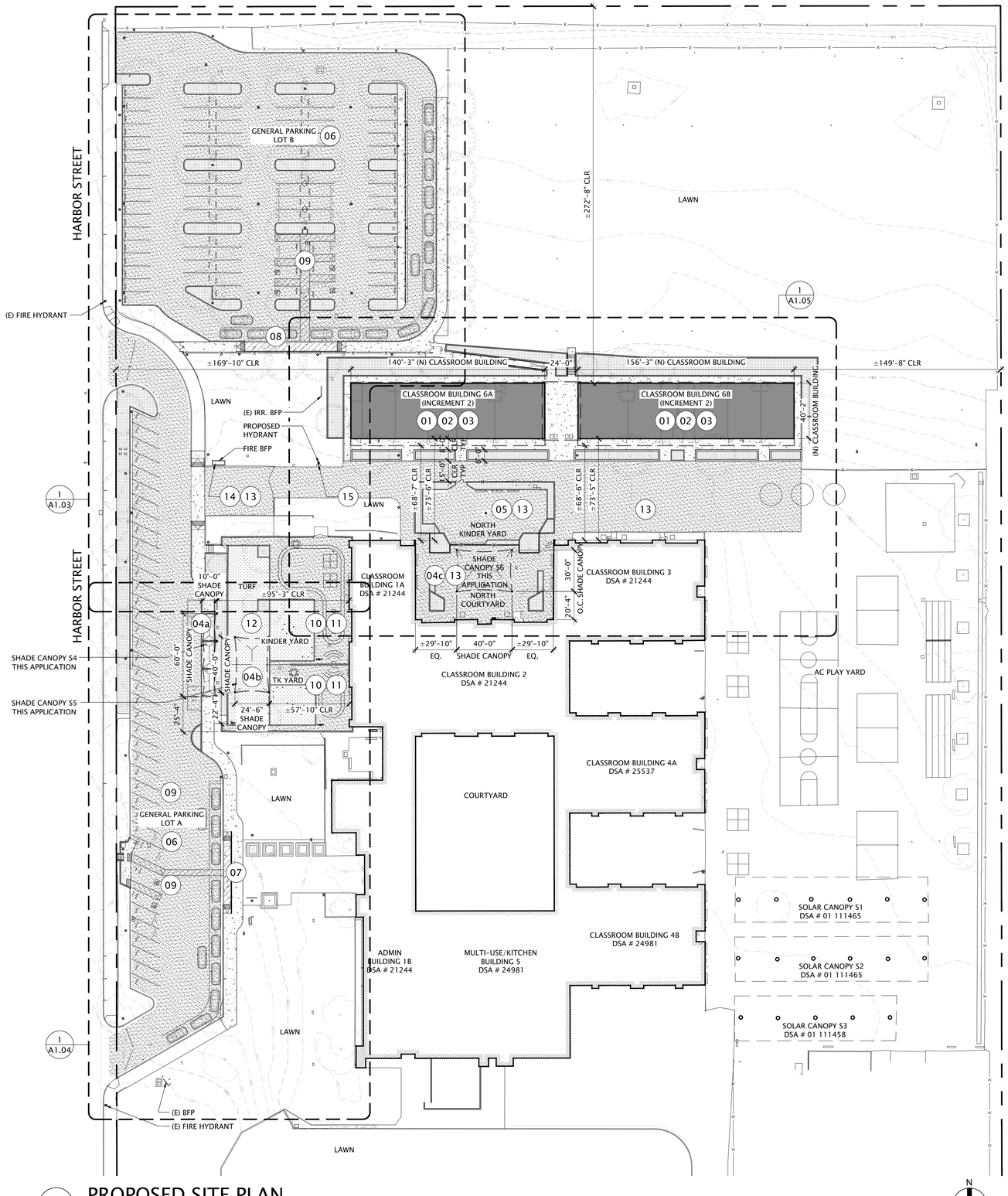
4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

SITE DEMOLITION PLAN

A1.01

Date
April 17, 2026



1 PROPOSED SITE PLAN

SCALE: 1" = 40'-0"

SHEET NOTES

(SEE A1.01 FOR APPLICABLE SHEET NOTES)

KEYNOTES

01 INFILL AND RE-GRADE EXISTING LAWN IN PREPARATION FOR INSTALLATION OF (2) CLASSROOM BUILDINGS PER DSA PC SET, S.C.D.

02 PROVIDE AND INSTALL CONC. RETAINING WALLS WITH SLOPED LANDSCAPING AT RE-GRADED BUILDING FOUNDATION. GRADING AT PLANTERS SHALL NOT EXCEED 1:2 SLOPE, S.C.D. FOR ADDN'L.

03 EXTEND UTILITIES FROM ON SITE AND/OR PUBLIC CONNECTIONS TO NEW CLASSROOM BUILDINGS, S.C.D., S.E.D., S.IR.D. FOR ADDITIONAL.

04 PROVIDE & INSTALL SHADE CANOPY PER DSA 04-123501.
- a. 10'x60'x8' FULL CANTILEVER HIP JOINED SHADE STRUCTURE
- b. 25'x40'x9' HIP SHADE STRUCTURE
- c. 30'x40'x9' HIP SHADE STRUCTURE

05 LOWER GRADE & PROVIDE FENCED ENCLOSURE AT REMOVED CLASSROOMS.

06 EXTEND & RECONFIGURE EXISTING PARKING LOT, S.C.D.

07 PROVIDE & INSTALL ACCESSIBLE DROP-OFF AT SCHOOL ENTRY PER 3/A2.02.

08 PROVIDE & INSTALL ACCESSIBLE PASSENGER LOADING PER 1/A2.02.

09 PROVIDE & INSTALL ACCESSIBLE & EV PARKING FACILITIES, S.E.D.

10 PROVIDE & INSTALL PLAY EQUIPMENT, FOOTINGS, ARTIFICIAL TURF AND BASE IN LOCATION. SEE A2.04 ENLARGED PLAY YARD PLANS FOR ADDITIONAL.

11 PROVIDE & INSTALL ASPHALT PAVING AND SUB BASE AND PLAY MARKINGS, S.C.D.

12 PROVIDE & INSTALL ARTIFICIAL TURF OVER COMPACTED SUB BASE PER 4/A2.04 , S.C.D.

13 REPLACE EXISTING ASPHALT PAVING & SUB BASE, S.C.D.

14 PROVIDE & INSTALL BACKFLOW PREVENTOR, CONCRETE HOUSEKEEPING PAD AND ENCLOSURE FOR INSTALLATION OF NEW FIRE WATER SERVICE TO CLASSROOM BUILDINGS, S.C.D. FOR ADDN'L.

15 PROVIDE & INSTALL NEW ON SITE HYDRANT, S.C.D.

LEGEND

- EXISTING BUILDING TO REMAIN
- FUTURE BUILDING (INCREMENT 2)
- AREA OF CONCRETE PAVING TO BE INSTALLED, S.C.D.
- AREA OF ASPHALT PAVING TO BE INSTALLED, S.C.D.
- AREA OF ARTIFICIAL TURF SURFACING TO BE INSTALLED, SEE A2.04 ENLARGED PLAY YARD PLANS
- AREA TO RECEIVE 3IN OF NATURAL BARK MULCH, MAHOGANY WOOD CHIP BY VISION RECYCLING, OR EQUAL
- 05 KEYNOTE, SEE ABOVE

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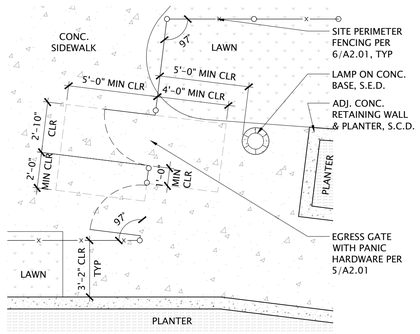
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PROPOSED SITE PLAN

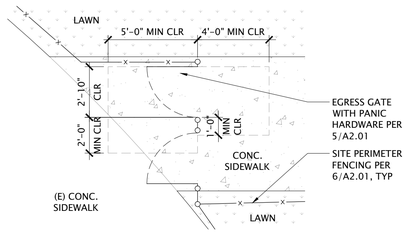
A1.02

Date
April 17, 2026



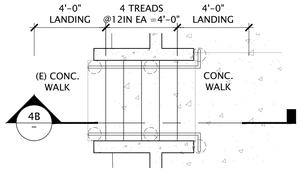
2 ENLARGED ACC. EXIT GATE PLAN

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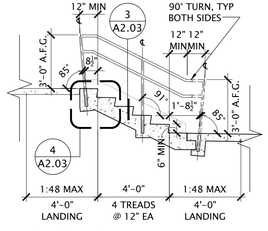


3 ENLARGED ACC. EXIT GATE PLAN

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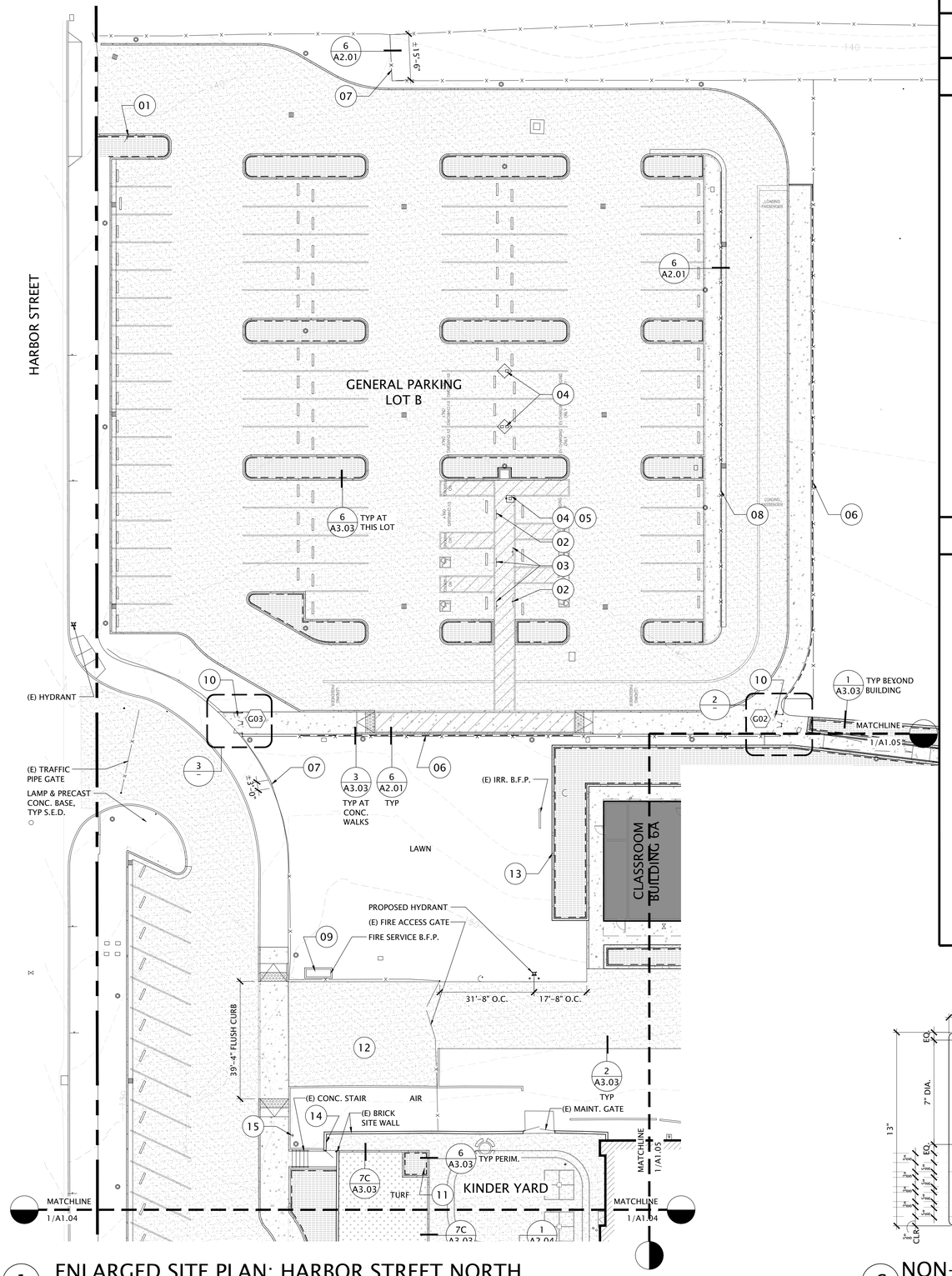
A: PLAN



B: SECTION

5 EXTERIOR STAIR

det_ramp.dwg SCALE: 1/4" = 1'-0"



1 ENLARGED SITE PLAN: HARBOR STREET NORTH

SCALE: 1" = 20'-0"

SHEET NOTES

(SEE A1.01 FOR APPLICABLE SHEET NOTES)

KEYNOTES

01 PROVIDE & INSTALL TOW-AWAY SIGNAGE PER 10/A2.02.

02 PROVIDE & INSTALL VAN ACCESSIBLE PARKING SIGNAGE PER 9/A2.02.

03 PROVIDE & INSTALL ACCESSIBLE PARKING SIGNAGE PER 8/A2.02.

04 PROVIDE & INSTALL EV BOLLARD-MOUNTED CHARGING STATION & FOOTING, S.E.D.

05 PROVIDE & INSTALL 6IN DIA. TRAFFIC BOLLARD AT NEWLY INSTALLED EV CHARGING EQUIPMENT, S.C.D. 17/C3.03.

06 PROVIDE & INSTALL CHAINLINK FENCING TO MATCH EXISTING ADJACENT.

07 INFILL CHAINLINK FENCING BETWEEN EXISTING POSTS, SEE 6/A2.01 FOR SIM.

08 PROVIDE & INSTALL 42IN HIGH CHAINLINK FENCE BETWEEN CONC. WALK AND ADJACENT DRIVE AISLE WITH CURB-MOUNTED FOOTINGS PER 11/A2.01 . SPACE POSTS EQUALLY BETWEEN LAMPS.

09 PROVIDE CONC. HOUSEKEEPING PAD AT BACKFLOW PREVENTOR PER 3/A2.01, S.C.D. FOR ADDN'L.

10 PROVIDE & INSTALL PEDESTRIAN GATE WITH PANIC HARDWARE PER 5/A2.01. SEE A2.01 FOR GATE SCHEDULE.

11 PROVIDE & INSTALL 6IN CURBED PLANTER AT PROPOSED TREEWELL PER 6/A3.03, S.C.D.

12 REPLACE EXISTING ASPHALT PAVING, S.C.D.

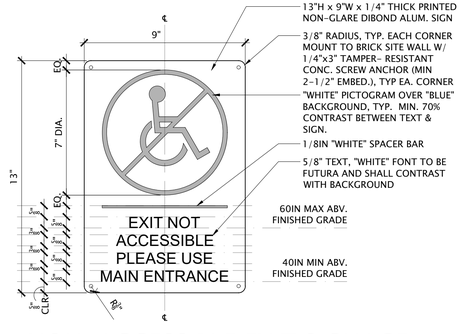
13 PROVIDE & INSTALL 8IN CONC. RETAINING WALL BEYOND RE-GRADED BUILDING PAD, S.C.D.

14 PROVIDE & INSTALL NON-ACCESSIBLE EXIT SIGNAGE PER 6/- AT EXISTING BRICK SITE WALL.

15 PROVIDE & INSTALL NON-ACCESSIBLE ENTRY SIGNAGE PER 6/-, POST-MOUNTED PER 2/A2.02 . SIGN SHALL REPLACE WORD "EXIT" WITH "ENTRY" AT BRICK WALL EXTERIOR.

LEGEND

- EXISTING BUILDING TO REMAIN
- FUTURE BUILDING (INCREMENT 2)
- AREA OF CONCRETE PAVING TO BE INSTALLED, S.C.D.
- AREA OF ASPHALT PAVING TO BE INSTALLED, S.C.D.
- AREA OF ARTIFICIAL TURF SURFACING TO BE INSTALLED, SEE A2.04 ENLARGED PLAY YARD PLANS
- AREA TO RECEIVE 3IN OF NATURAL BARK MULCH, MAHOGANY WOOD CHIP BY VISION RECYCLING, OR EQUAL
- ROOT BARRIER TO BE INSTALLED PER 10/A3.03
- 1A BUILDING DESIGNATION
- G01 GATE PER SCHEDULE
- 05 KEYNOTE, SEE ABOVE



6 NON-ACCESSIBLE EXIT SIGNAGE

site_signage.dwg SCALE: 3" = 1'-0"

IDENTIFICATION STAMP
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APP: 01-122869 INC: 01
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LICENSED ARCHITECT ROBERTA ANN PLUM C28312 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

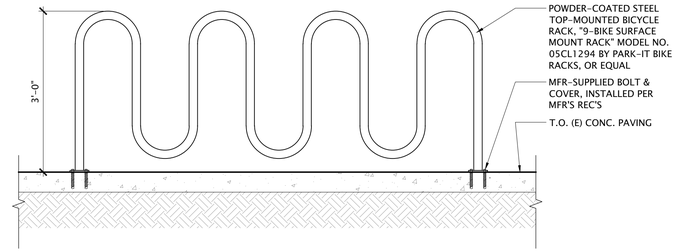
4141 Harbor Street
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Pittsburg Unified School District

Sheet

ENLARGED SITE PLAN: HARBOR STREET NORTH

A1.03

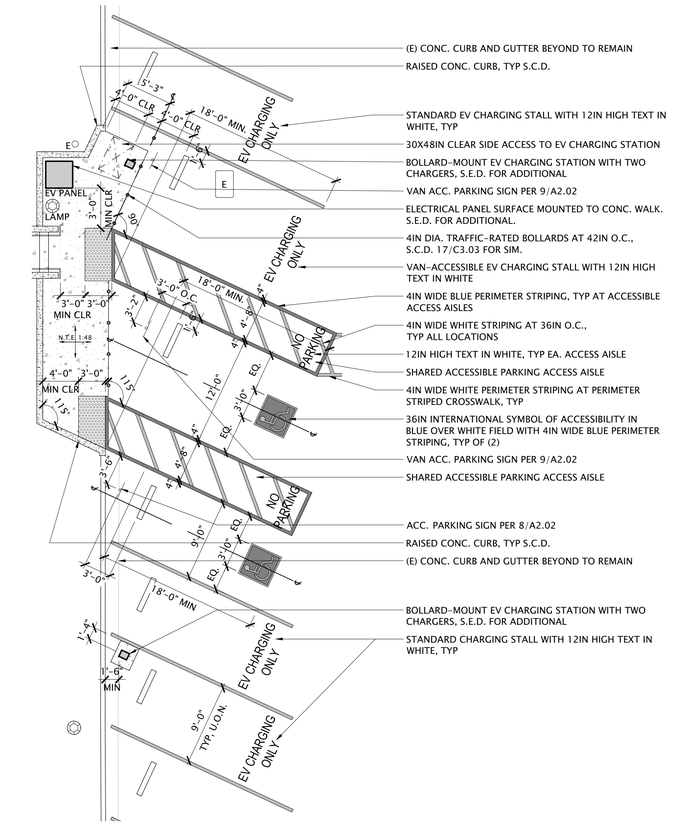
Date
April 17, 2026



2 OUTDOOR BICYCLE RACK

bike rack.dwg

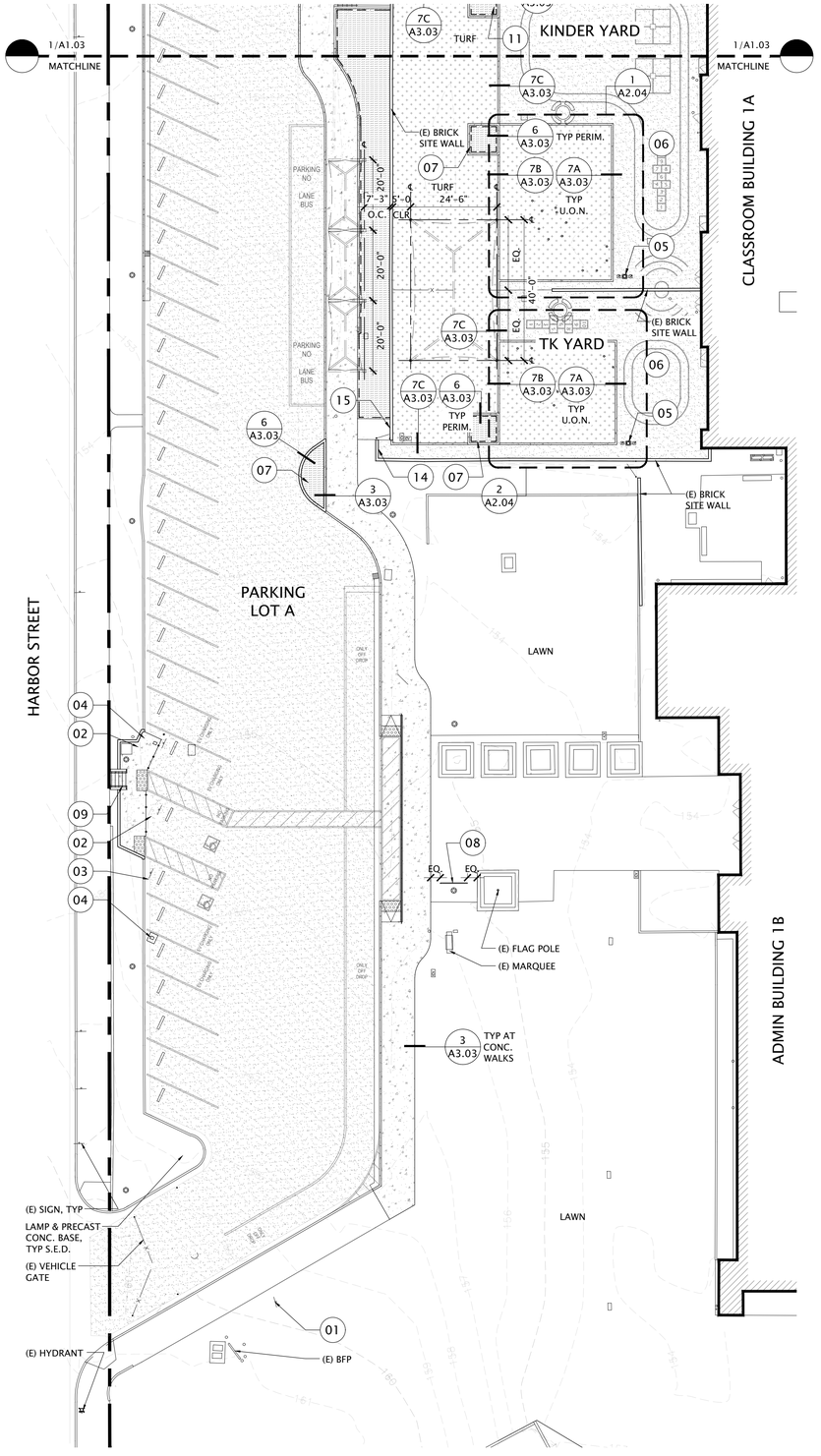
SCALE: 3/4" = 1'-0"



3 ACCESSIBLE PARKING PLAN

det_acc-parking.dwg

SCALE: 1/8" = 1'-0"



1 ENLARGED SITE PLAN: HARBOR STREET SOUTH

SCALE: 1" = 20'-0"

SHEET NOTES

(SEE A1.01 FOR APPLICABLE SHEET NOTES)

KEYNOTES

01 PROVIDE & INSTALL TOW-AWAY SIGNAGE PER 10/A2.02.

02 PROVIDE & INSTALL VAN ACCESSIBLE PARKING SIGNAGE PER 9/A2.02.

03 PROVIDE & INSTALL ACCESSIBLE PARKING SIGNAGE PER 8/A2.02.

04 PROVIDE & INSTALL EV CHARGING STATION, S.E.D.

05 PROVIDE & INSTALL FREE-STANDING HI-LO FOUNTAIN ON CONC. BASE PER 7/A2.01.

06 PROVIDE & INSTALL NEW PLAY STRIPING AT REPLACED ASPHALT PLAY YARD, S.C.D.

07 PROVIDE & INSTALL 6IN CURBED PLANTER AT PROPOSED TREEWELL PER 6/A3.03, S.C.D.

08 PROVIDE & INSTALL TOP-MOUNTED BICYCLE RACK AT EXISTING CONC. WALK PER 2/-.

09 REPLACE EXISTING CONC. SITE STAIR IN-KIND PER 5/A1.03.

14 PROVIDE & INSTALL NON-ACCESSIBLE EXIT SIGNAGE PER 6/A1.03 AT EXISTING BRICK SITE WALL.

15 PROVIDE & INSTALL NON-ACCESSIBLE ENTRY SIGNAGE PER 6/A1.03 AT EXISTING BRICK SITE WALL. SIGN SHALL REPLACE WORD "EXIT" WITH "ENTRY" AT BRICK WALL EXTERIOR.

LEGEND

- EXISTING BUILDING TO REMAIN
- FUTURE BUILDING (INCREMENT 2)
- AREA OF CONCRETE PAVING TO BE INSTALLED, S.C.D.
- AREA OF ASPHALT PAVING TO BE INSTALLED, S.C.D.
- AREA OF ARTIFICIAL TURF SURFACING TO BE INSTALLED, SEE A2.04 ENLARGED PLAY YARD PLANS
- AREA TO RECEIVE 3IN OF NATURAL BARK MULCH, MAHOGANY WOOD CHIP BY VISION RECYCLING, OR EQUAL
- ROOT BARRIER TO BE INSTALLED PER 10/A3.03
- 1A BUILDING DESIGNATION
- G01 GATE PER SCHEDULE
- 05 KEYNOTE, SEE ABOVE

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DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

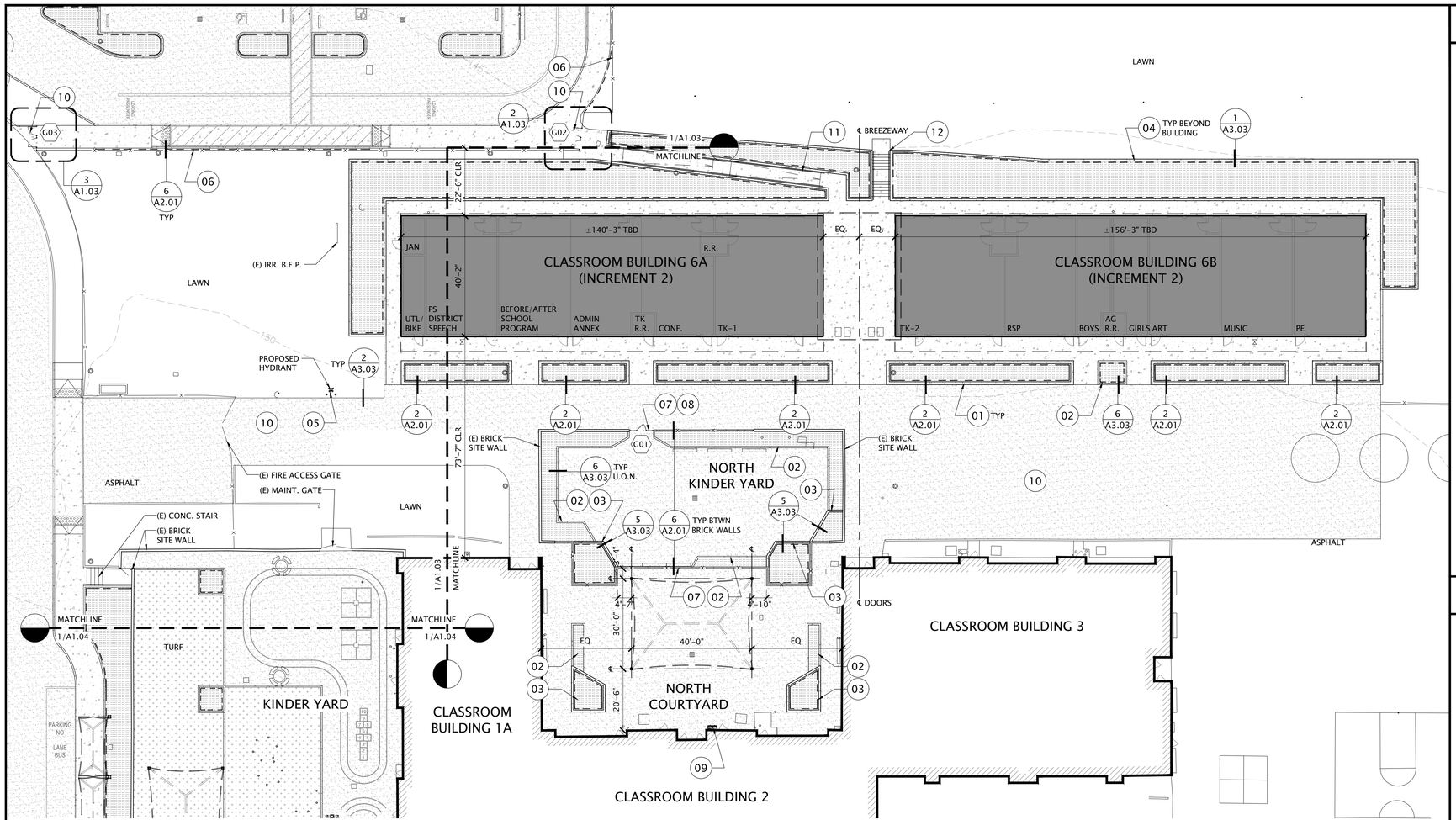
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Pittsburg Unified School District

Sheet

ENLARGED SITE PLAN: HARBOR STREET SOUTH

A1.04

Date
April 17, 2026



1 ENLARGED SITE PLAN: CLASSROOM BUILDINGS & NORTH COURTYARD

SCALE: 1" = 20'-0"

SHEET NOTES

A. NOTED ITEMS ARE INTENDED TO SHOW THE GENERAL EXTENT OF DEMOLITION. HOWEVER, SOME ITEMS MAY BE COVERED OR OTHERWISE NOT INDICATED. REMOVE ALL ITEMS WHETHER SHOWN OR NOT, AS NECESSARY TO ACCOMMODATE INSTALLATION OF NEW CONSTRUCTION. THESE ITEMS MAY INCLUDE FRAMING MEMBERS, BLOCKING, ELECTRICAL, MECHANICAL AND PLUMBING FIXTURES, CONDUITS AND PIPING, MISCELLANEOUS CONNECTORS, FINISHES, EQUIPMENT, ETC. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, AND DEMOLITION REQUIRED TO FACILITATE THE PROPER INSTALLATION OF ALL NEW CONSTRUCTION.

B. G.C. TO PROTECT ALL EXISTING AREAS TO REMAIN FROM DAMAGE, DUST, DEBRIS, ETC. DURING CONSTRUCTION.

C. WHERE ACCESSORIES, FIXTURES, WALLS ETC. HAVE BEEN REMOVED OR MOVED, PATCH NEWLY EXPOSED AREA TO MATCH (E) ADJACENT UNLESS OTHERWISE NOTED

D. FOR DEMOLITION, RELOCATION AND/OR INSTALLATION OF NEW PLUMBING FIXTURES THE SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO: REMOVE FIXTURE, DISCONNECT PIPING, REMOVE FINISHES, INSTALL BLOCKING, INSTALL NEW CARRIERS, EXTEND PLUMBING LINES, PATCH & REPAIR, INSTALL NEW FIXTURES, CONNECT TO PIPING, SEAL AND PATCH AREA. CAP ALL ABANDONED PLUMBING IN WALL OR BELOW SLAB.

E. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING AT THE CONTRACTOR'S EXPENSE ANY EXISTING ITEMS DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS.

F. WHEN DEMOLITION OCCURS WHICH AFFECTS LOCATION OF EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS NOT INDICATED TO BE REMOVED (PIPING, DUCTS, OUTLETS, SWITCHES, ETC.) CONTRACTOR TO REMOVE AND/OR RE-ROUTE OR RELOCATE AS NECESSARY TO ACCOMMODATE INSTALLATION OF NEW CONSTRUCTION.

G. G.C. SHALL REMOVE ALL ABANDONED CONDUITS, RACEWAYS,DUCTS, PIPES FANS, ETC. AND PATCH WALL TO MATCH EXISTING FINISH SURFACE.

H. EXISTING FLOOR & WALL FINISHES TO REMAIN U.O.N. PATCH & REPAIR ANY DRY ROT DAMAGED SHEATHING OR FRAMING WHERE PRESENT.

I. CONTRACTOR TO PROVIDE BONDING FOR WATER AND GAS PIPING.

J. G.C. TO VERIFY THAT INSTALLATION OF ALL SINK PLUMBING VENTS WILL MEET NOTCHING & BORING REQUIREMENTS OF CBC 2308.9.10 & 11; PROVIDE INFORMATION TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO CLOSE-IN.

K. MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS ARE DESIGN BUILD. CONTRACTOR IS RESPONSIBLE FOR RELOCATING, REROUTING, OR FURNISH & INSTALLATION OF COMPLETE AND FUNCTIONING SYSTEMS WHERE IMPACTED BY SCOPE.

L. MOUNTING HEIGHTS FOR STUDENT RESTROOMS SHALL BE PER 5/A2.06 UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS FOR STAFF RESTROOMS SHALL BE PER 6/A2.06,

M. SEE A1.01 FOR ADDITIONAL APPLICABLE SHEET NOTES)

KEYNOTES

01 PROVIDE & INSTALL CONCRETE BENCH PLANTERS 14IN MAX ABV. GRADE, S.C.D.

02 PROVIDE & INSTALL 6IN CURBED PLANTER, S.C.D.

03 PROVIDE & INSTALL 8IN CURBED PLANTER, HEIGHT TO MATCH T.O. ADJACENT RETAINING WALL, S.C.D.

04 PROVIDE & INSTALL 8IN CONC. RETAINING WALL BEYOND RE-GRADED BUILDING PAD, S.C.D.

05 PROVIDE & INSTALL HYDRANT AND 6IN DIA. TRAFFIC BOLLARDS BEYOND, S.C.D. 17/C3.03.

06 PROVIDE & INSTALL CHAINLINK FENCING TO MATCH EXISTING ADJACENT.

07 PROVIDE & INSTALL 48IN HIGH CHAINLINK FENCING & GATE AT NORTH KINDER YARD PERIMETER BETWEEN EXISTING BRICK SITE WALLS. FOR FENCE FOOTINGS AT TOP OF CURB, SEE 8/A2.01.

08 PROVIDE & INSTALL PEDESTRIAN GATE WITH PANIC HARDWARE PER 4/A2.01. SEE A2.01 FOR GATE SCHEDULE.

09 PROVIDE & INSTALL HI-LO FOUNTAIN AT REMOVED FOUNTAIN PER 10/A2.01.

10 REPLACE EXISTING ASPHALT PAVING, S.C.D.

11 CONC. ACCESSIBLE RAMP PER 5/A2.03.

12 CONC. STAIR PER 1/A2.03.

LEGEND

- EXISTING BUILDING TO REMAIN
- FUTURE BUILDING (INCREMENT 2)
- AREA OF CONCRETE PAVING TO BE INSTALLED, S.C.D.
- AREA OF ASPHALT PAVING TO BE INSTALLED, S.C.D.
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- AREA TO RECEIVE 3IN OF NATURAL BARK MULCH, MAHOGANY WOOD CHIP BY VISION RECYCLING, OR EQUAL
- ROOT BARRIER TO BE INSTALLED PER 10/A3.03
- 1A BUILDING DESIGNATION
- G01 GATE PER SCHEDULE
- 05 KEYNOTE, SEE ABOVE

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Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

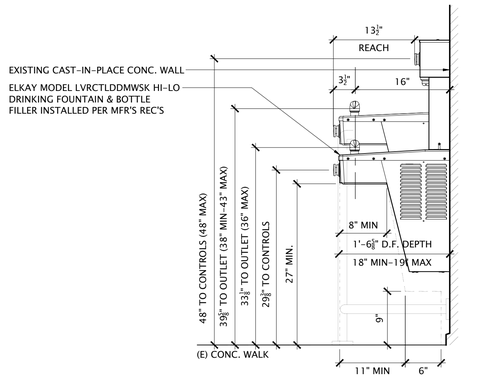
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Pittsburg Unified School District

Sheet

ENLARGED SITE PLAN: CLASSROOM BUILDING & NORTH COURTYARD

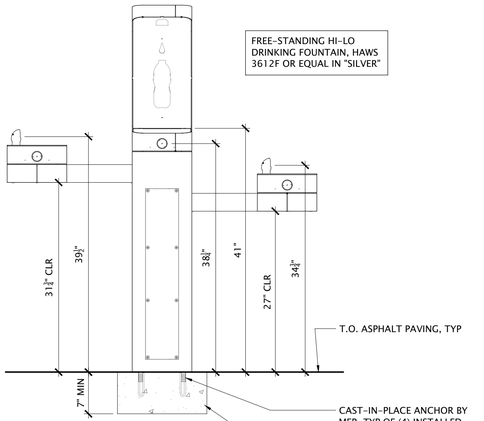
A1.05

Date
April 17, 2026

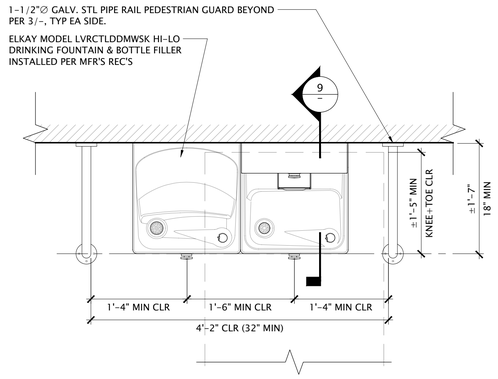


9 DRINKING FOUNTAIN & FILLER SECTION

access_newDF_wallmt.dwg — SCALE: 1" = 1'-0"



A: ELEVATION



B: PLAN

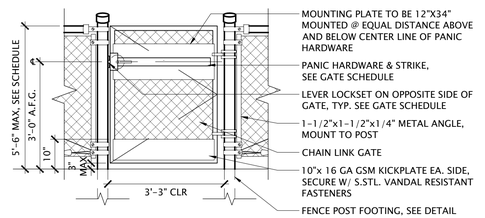
10 DRINKING FOUNTAIN & FILLER PLAN

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7 DRINKING FOUNTAIN & FILLER

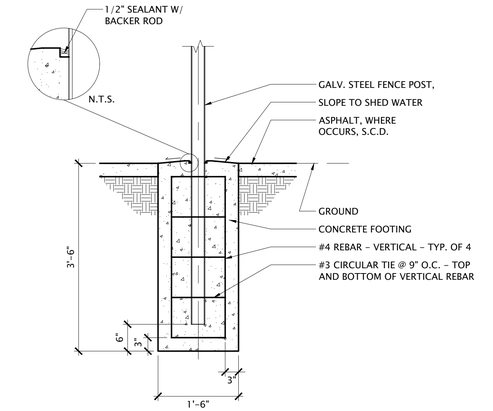
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DOOR #	LOCATION	DETAIL	HARDWARE SET NO.	PANIC HARDWARE	SIZE
G-01	NORTH KINDER YARD	4/-	01	NO	36x48
G-02	PARKING LOT B	5/-	02	YES	(PR) 34x80
G-03	PARKING LOT B	5/-	02	YES	(PR) 34x80
G-04	TK YARD	4/- (SIM)	03	YES	36x66



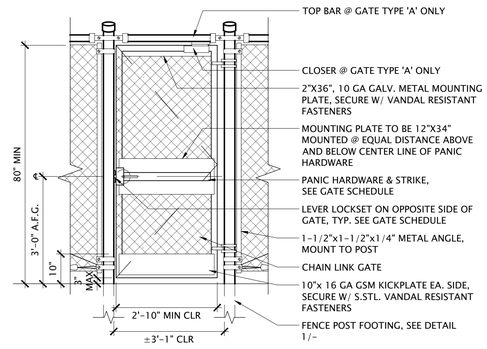
4 CHAINLINK GATE PANIC HARDWARE SIDE

site-railings.dwg — SCALE: 1/2" = 1'-0"



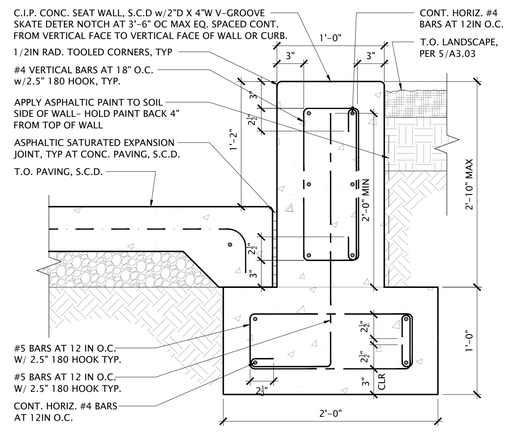
1 TYP. FENCE FOOTING

SCALE: 3/4" = 1'-0" — SCALE: 3/4" = 1'-0"



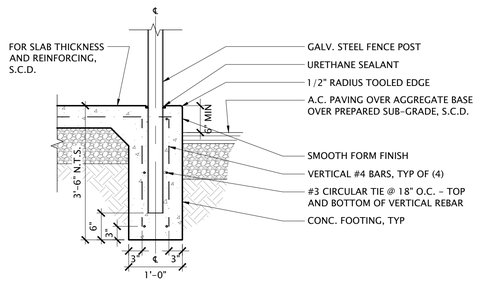
5 ACC. CHAINLINK GATE PANIC HARDWARE SIDE

site-railings.dwg — SCALE: 1/2" = 1'-0"



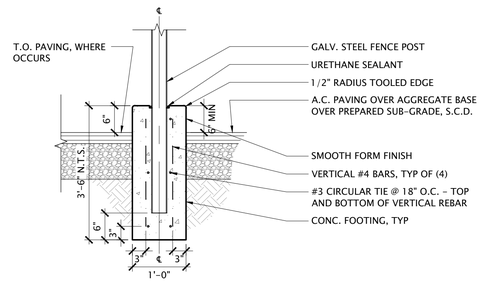
2 CONCRETE BENCH WALL

concrete seat wall.dwg — SCALE: 1-1/2" = 1'-0"



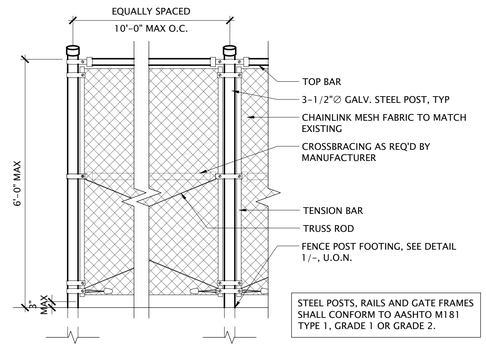
11 FENCE FOOTING AT CONC. CURB

conc curb with post.dwg — SCALE: 3/4" = 1'-0"



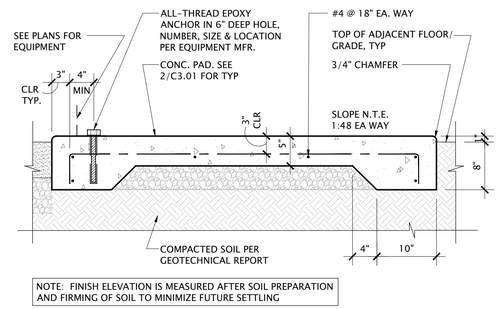
8 FENCE FOOTING AT CONC. CURB

conc curb with post.dwg — SCALE: 3/4" = 1'-0"



6 CHAINLINK FENCE

site-railings.dwg — SCALE: 1/2" = 1'-0"



NOTE: FINISH ELEVATION IS MEASURED AFTER SOIL PREPARATION AND FIRMING OF SOIL TO MINIMIZE FUTURE SETTLING

3 CONCRETE EQUIPMENT PAD

SCALE: 1" = 1'-0"

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DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

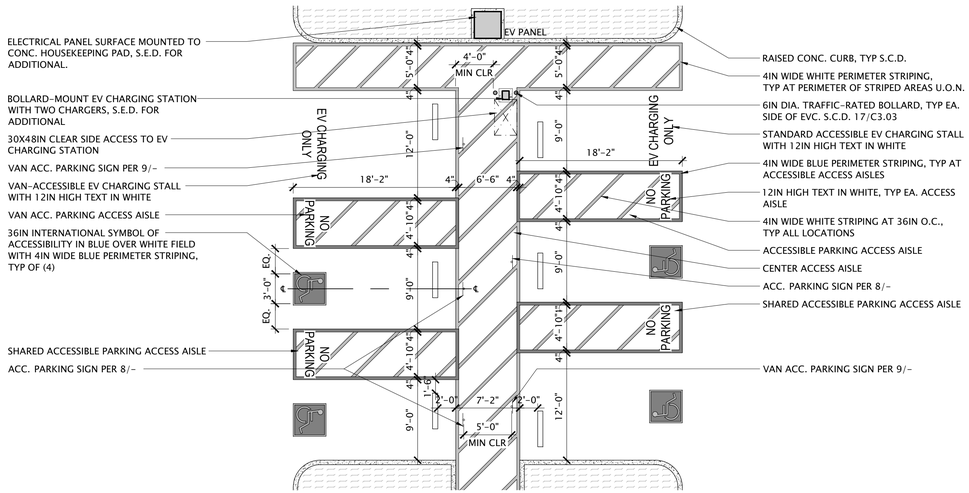
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Pittsburg Unified School District

Sheet

EXTERIOR DETAILS

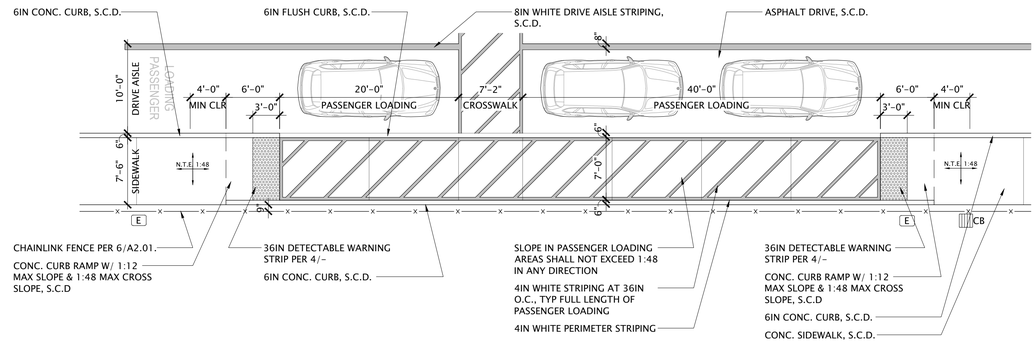
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Date
April 17, 2026



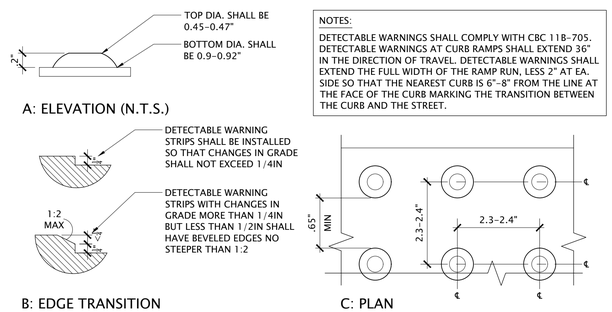
6 ACCESSIBLE PARKING PLAN

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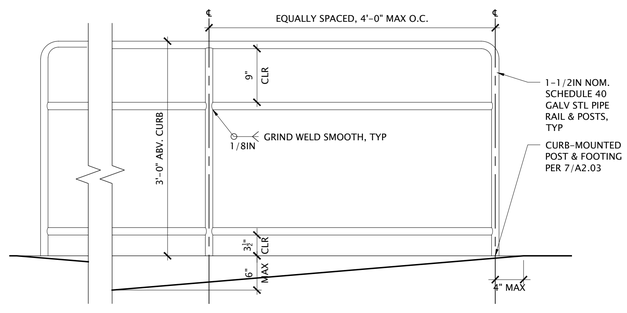
1 ENLARGED PICK-UP PLAN

det_passenger-loading.dwg — SCALE: 1/8" = 1'-0"



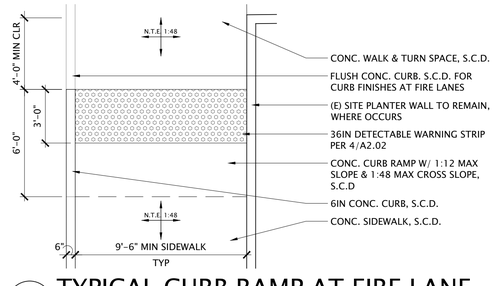
4 TRUNCATED DOMES

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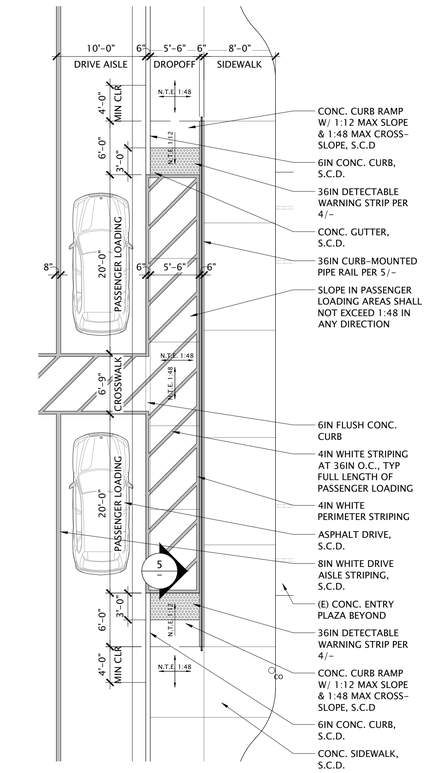
5 GUARDRAIL AT DROP-OFF

site-railings.dwg — SCALE: 1" = 1'-0"



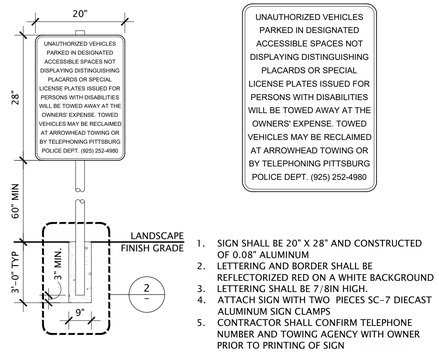
7 TYPICAL CURB RAMP AT FIRE LANE

det_curbramp.dwg — SCALE: 1/4" = 1'-0"



3 ENLARGED DROP-OFF PLAN

det_passenger-loading.dwg — SCALE: 1/8" = 1'-0"

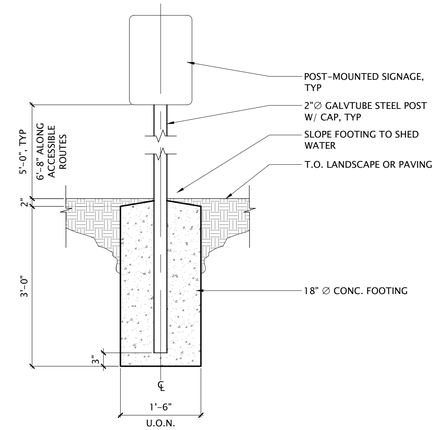


UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNERS' EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT ARROWHEAD TOWING OR BY TELEPHONING PITTSBURG POLICE DEPT. (925) 252-4980

1. SIGN SHALL BE 20" X 28" AND CONSTRUCTED OF 0.08" ALUMINUM
2. LETTERING AND BORDER SHALL BE REFLECTORIZED RED ON A WHITE BACKGROUND
3. LETTERING SHALL BE 7/8IN HIGH.
4. ATTACH SIGN WITH TWO PIECES SC-7 DIECAST ALUMINUM SIGN CLAMPS
5. CONTRACTOR SHALL CONFIRM TELEPHONE NUMBER AND TOWING AGENCY WITH OWNER PRIOR TO PRINTING OF SIGN
6. PROVIDE 2" DIAMETER GALVANIZED POST

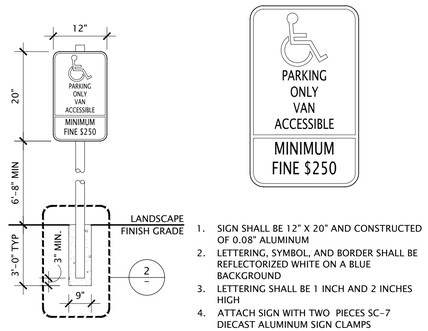
10 TOWAWAY SIGNAGE

accessible parking sign.dwg — N.T.S.



2 TYPICAL SIGN FOOTING

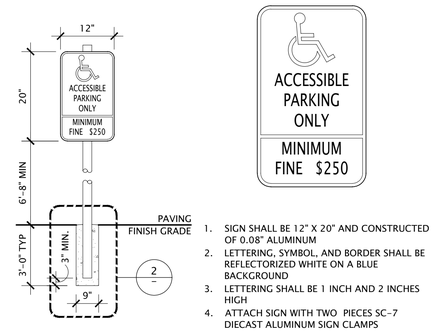
SITE-POST-FOOTING.DWG — SCALE: 3/4" = 1'-0"



1. SIGN SHALL BE 12" X 20" AND CONSTRUCTED OF 0.08" ALUMINUM
2. LETTERING, SYMBOL, AND BORDER SHALL BE REFLECTORIZED WHITE ON A BLUE BACKGROUND
3. LETTERING SHALL BE 1 INCH AND 2 INCHES HIGH
4. ATTACH SIGN WITH TWO PIECES SC-7 DIECAST ALUMINUM SIGN CLAMPS
5. PROVIDE 2" DIAMETER GALVANIZED POST

9 VAN ACC. PARKING SIGN

tow away sign.dwg — N.T.S.



1. SIGN SHALL BE 12" X 20" AND CONSTRUCTED OF 0.08" ALUMINUM
2. LETTERING, SYMBOL, AND BORDER SHALL BE REFLECTORIZED WHITE ON A BLUE BACKGROUND
3. LETTERING SHALL BE 1 INCH AND 2 INCHES HIGH
4. ATTACH SIGN WITH TWO PIECES SC-7 DIECAST ALUMINUM SIGN CLAMPS
5. PROVIDE 2" DIAMETER GALVANIZED POST

8 ACC. PARKING SIGN

tow away sign.dwg — N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

LICENSED ARCHITECT ROBERTA ANN PLUM C28312 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

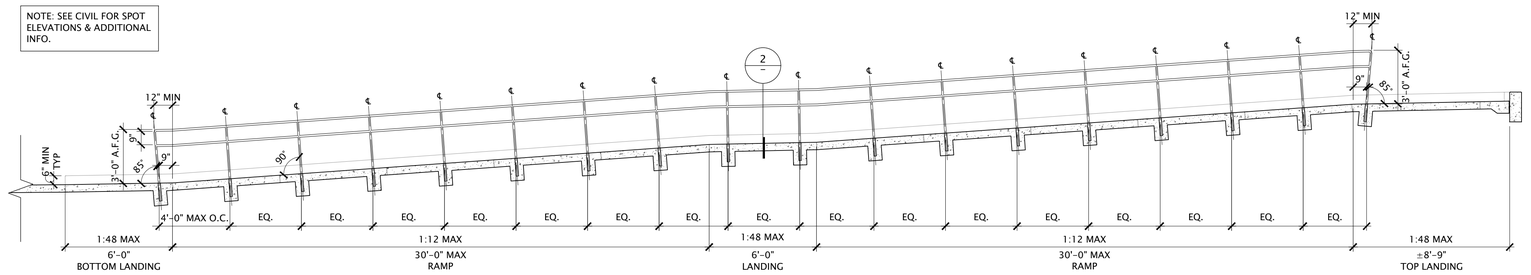
4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

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SITE ACCESS DETAILS

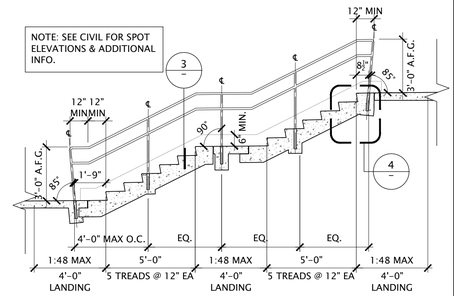
A2.02

Date
April 17, 2026



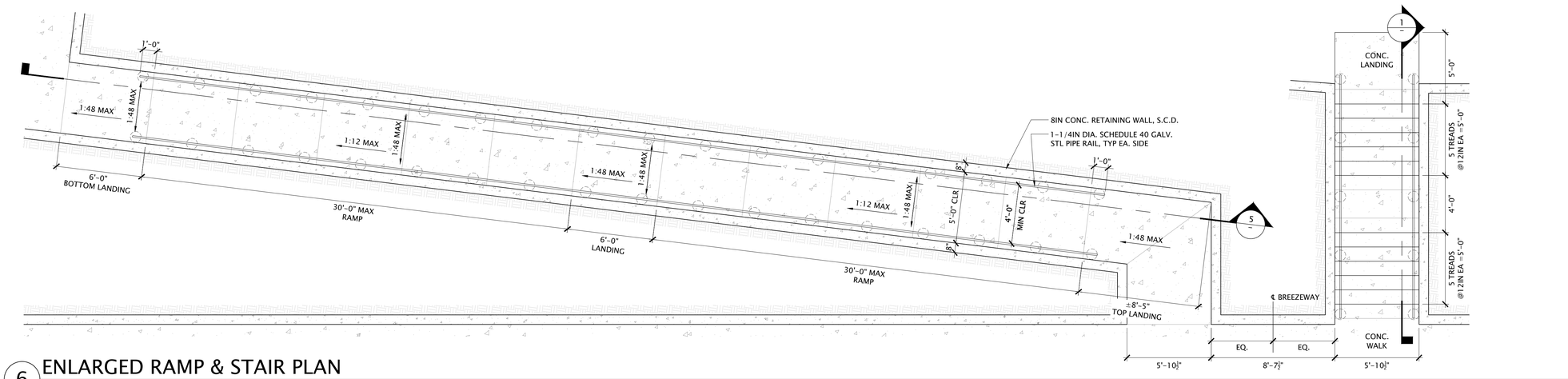
5 EXTERIOR RAMP SECTION

det_ramp.dwg SCALE: 1/4" = 1'-0"



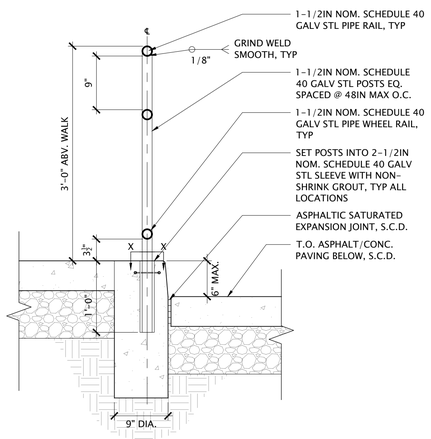
1 EXTERIOR STAIR SECTION

det_ramp.dwg SCALE: 1/4" = 1'-0"



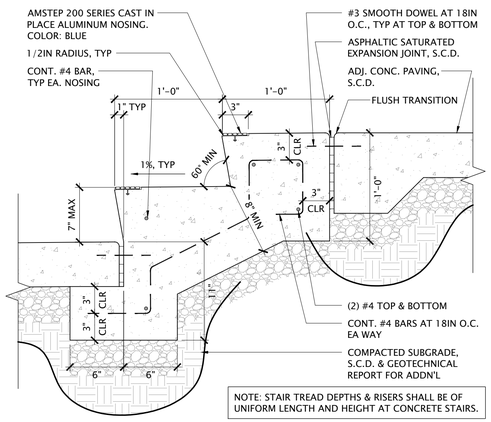
6 ENLARGED RAMP & STAIR PLAN

det_ramp.dwg SCALE: 1/4" = 1'-0"



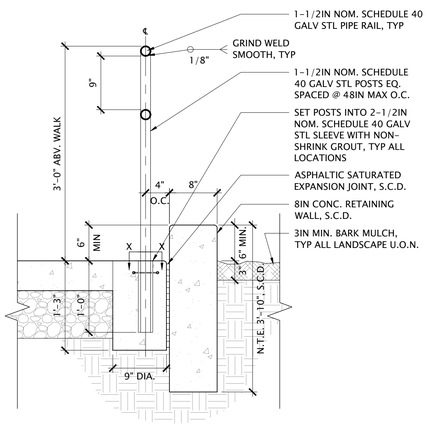
7 POST FOOTING AT CURB

det_rail sect.dwg SCALE: 1" = 1'-0"



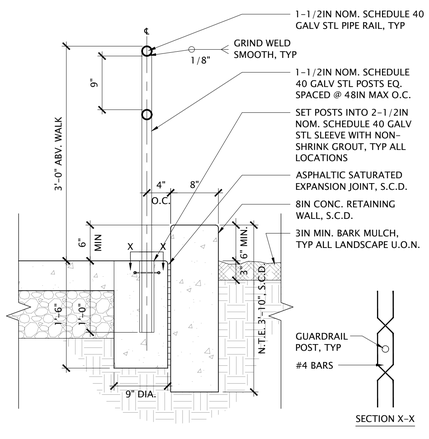
4 CONCRETE STAIR NOSING

det_conc stair.dwg SCALE: 1-1/2" = 1'-0"



3 HANDRAIL AT STAIR

det_rail sect.dwg SCALE: 1" = 1'-0"



2 HANDRAIL AT RAMP

det_rail sect.dwg SCALE: 1" = 1'-0"

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DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

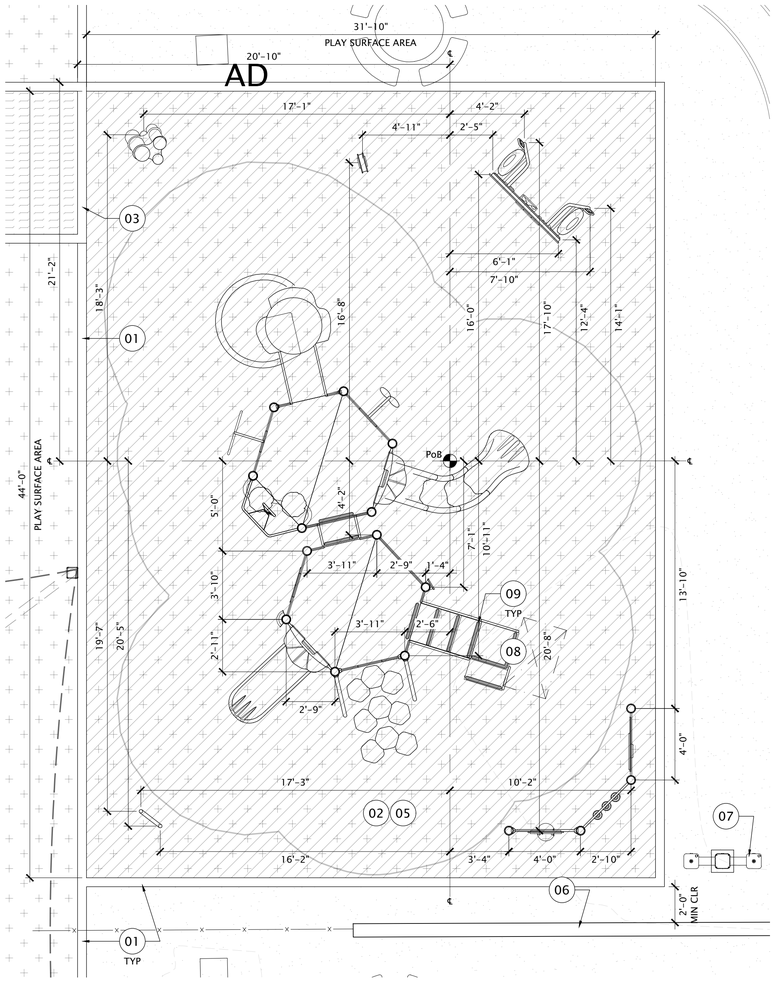
4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

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ENLARGED RAMP & STAIR PLANS

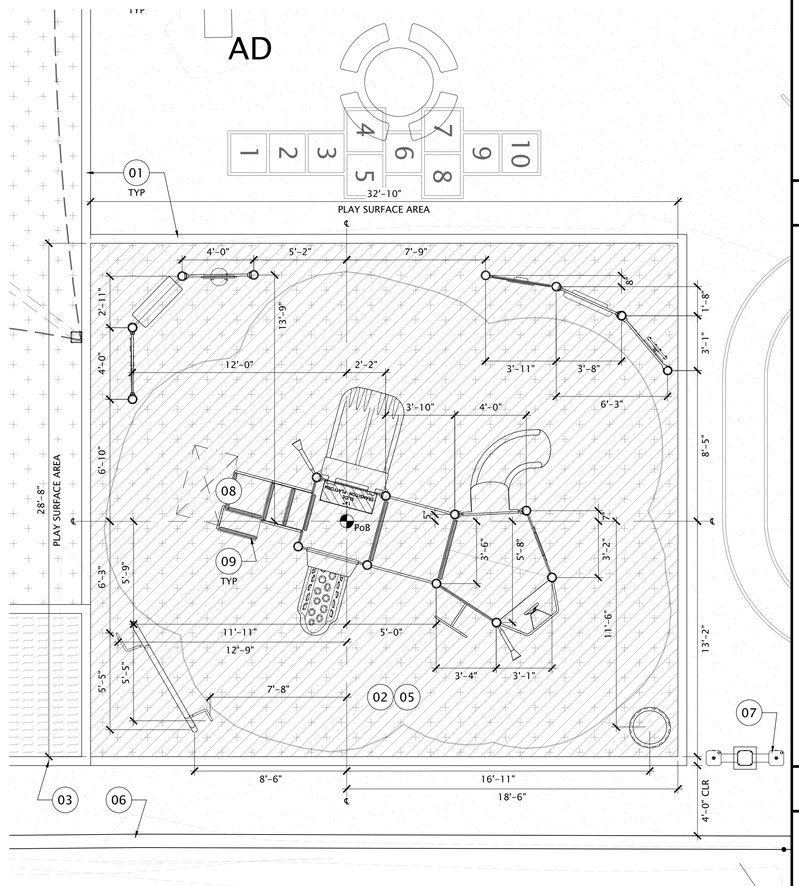
A2.03

Date
April 17, 2026



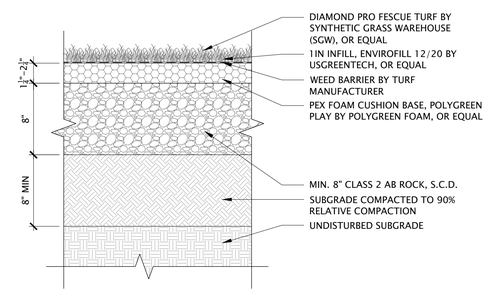
1 ENLARGED KINDER PLAY YARD FOOTING PLAN

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



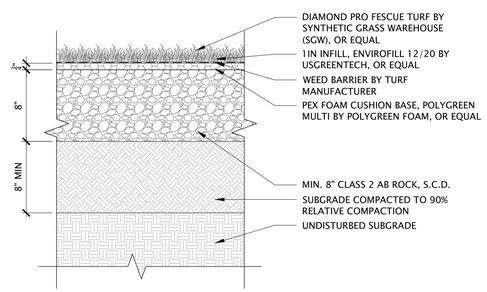
2 ENLARGED TK PLAY YARD FOOTING PLAN

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



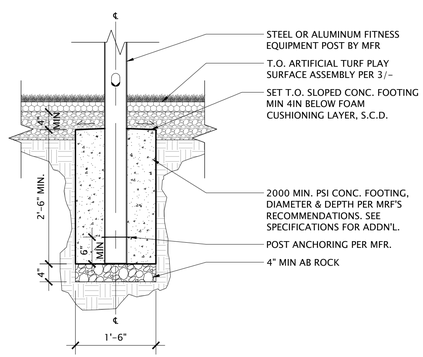
3 ARTIFICIAL TURF AT PLAY YARD

det_pavingsections.dwg SCALE: 1-1/2" = 1'-0"



4 ARTIFICIAL TURF LAWN

det_pavingsections.dwg SCALE: 1-1/2" = 1'-0"



5 TYP FITNESS EQUIPMENT FOOTING

playequip_footing.dwg SCALE: 3/4" = 1'-0"

SHEET NOTES

A. SEE 7/A3.03 FOR CURB TRANSITIONS BETWEEN ASPHALT PLAY AREAS AND TURF SURFACING.

B. SEE SPECIFICATIONS FOR FOOTING REQUIREMENTS FOR LOCATION.

C. TRANSFER STEPS TO BE STRIPED PER 11B-504.4.1

D. USE ZONES FINISH SURFACE OF PLAYGROUND COMPLIES WITH ASTM F1292-99.

E. GROUND SURFACING COMPLIES WITH ASTM 1951-99

F. PLAYGROUND EQUIPMENT SHALL COMPLY WITH ASTM F1487-98.

G. THIS PLAY AREA MEETS CBC SECTION 11B-1008.

H. FOR ACCESSIBLE ROUTES AT EACH PLAY YARD, SEE A2.05.

I. SEE A1.01 FOR ADDITIONAL SHEET NOTES

KEYNOTES

01 PROVIDE & INSTALL 6IN FLUSH CURB AT PERIMETER OF PLAY AREAS, S.C.D.

02 PROVIDE AND INSTALL ARTIFICIAL TURF SURFACING OVER 1.25IN FOAM CUSHIONING PER 3/-, TYP AT PLAY EQUIPMENT INTERIOR, S.C.D.

03 RAISED 6IN CONC. CURB PER 6/A3.03, TYPICAL AT TREE WELLS.

04 PROVIDE & INSTALL PLAY EQUIPMENT, POST AND FOOTINGS. SEE 5/- FOR TYPICAL FOOTINGS.

05 PROVIDE AND INSTALL ARTIFICIAL TURF SURFACING OVER 2.25IN FOAM CUSHIONING PER 3/-, TYP AT PLAY EQUIPMENT INTERIOR, S.C.D.

06 PROTECT EXISTING BRICK SITE WALL AND FOOTINGS IN PLACE.

07 FREE-STANDING HI-LO DRINKING FOUNTAIN AND BOTTLE FILLER ON CONC. BASE PER 7/A2.01.

08 ACCESSIBLE TRANSFER PLATFORM AND CLEAR AREA.

09 PROVIDE AND INSTALL 2IN YELLOW CONTRAST STRIPING AT EACH STEP, 3/4IN MAX FROM EDGE OF NOSING, TYP.

PLAY FEATURE SUMMARY

TK PLAY STRUCTURES

PLAY AREA - AGE APPROPRIATE 2-5 YEARS:	CAPACITY: 65-70 CHILDREN		
ELEVATED PLAY ACTIVITIES (TOTAL)	7		
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER:	7	REQ'D:	4
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP:	0	REQ'D:	0
GROUND LEVEL ACTIVITY TYPE:	4	REQ'D:	2
GROUND LEVEL ACTIVITY QUANTITY:	8	REQ'D:	2

CRITICAL FALL HEIGHT: 3'-1"

KINDER PLAY STRUCTURES

PLAY AREA - AGE APPROPRIATE 2-12 YEARS:	CAPACITY: 83-88 CHILDREN		
ELEVATED PLAY ACTIVITIES (TOTAL)	9		
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER:	9	REQ'D:	5
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP:	0	REQ'D:	0
GROUND LEVEL ACTIVITY TYPE:	4	REQ'D:	3
GROUND LEVEL ACTIVITY QUANTITY:	11	REQ'D:	3

CRITICAL FALL HEIGHT: 6'-2"

LEGEND

- AREA OF ASPHALT PAVING, S.C.D.
- AREA OF ARTIFICIAL TURF SURFACING TO BE INSTALLED AT PLAY AREA PER 3/-
- AREA OF ARTIFICIAL TURF SURFACING TO BE INSTALLED AT LAWN AREA PER 4/-
- AREA OF BARK MULCH TO BE INSTALLED
- 30X48 ACCESSIBLE CLEAR TRANSFER SPACE WITH LESS THAN 2% SLOPE EA. DIRECTION
- 05 KEYNOTE, SEE ABOVE

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DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
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LICENSED ARCHITECT ROBERTA ANN PLUM C28312 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

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Pittsburg Unified School District

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ENLARGED PLAY YARD FOOTING PLANS

A2.04

Date
April 17, 2026

KINDER PLAY YARD RENDERING

SCALE: N/A



Colors shown in rendering are for illustrative purposes only. Actual color and pattern may vary slightly.

12/10/2025
25-8463_Highlands ES TKKinder_003

Creating Fun Play Environments to Enrich Communities

ENLARGED KINDER PLAY YARD ACCESS PLAN

SCALE:AS NOTED

PLAY AREA - AGE APPROPRIATE 2-12 YEARS; CAPACITY: 83-88 CHILDREN

NOTES:
1. TRANSFER STEPS TO BE STRIPED PER 11B-504.4.1
2. USE ZONES FINISH SURFACE OF PLAYGROUND COMPLIES WITH ASTM F1292-99.
3. GROUND SURFACING COMPLIES WITH ASTM 1951-99
4. PLAYGROUND EQUIPMENT SHALL COMPLY WITH ASTM F1487-98.
5. THIS PLAY AREA MEETS CBC SECTION 11B-1008.

A. LIST OF ELEVATED PLAY COMPONENTS

ELEVATED PLAY ACTIVITIES (TOTAL):	9	
ELEVATED PLAY ACTIVITIES ACCESSIBLE VIA TRANSFER:	9	REQ'D: 5
ELEVATED PLAY ACTIVITIES ACCESSIBLE VIA RAMP:	0	REQ'D: 0

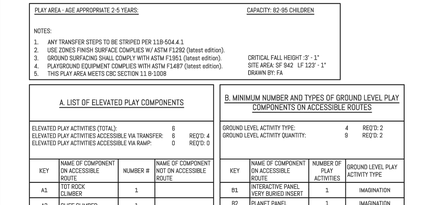
KEY	NAME OF COMPONENT ON ACCESSIBLE ROUTE	NUMBER #	NAME OF COMPONENT NOT ON ACCESSIBLE ROUTE
A1	TYPHOON 270° DOMED	1	
A2	SPIDER CLIMBER	1	
A3	OBSERVATION DECK WITH STEERING WHEEL	1	
A4	VERTICAL CARGO CLIMBER	1	
A5	GROOVE II SLIDE VORTEX	1	
A6	POD HOPPER	2	
A7	CHAMELEON II	1	
A8	VINE CLIMBER	1	

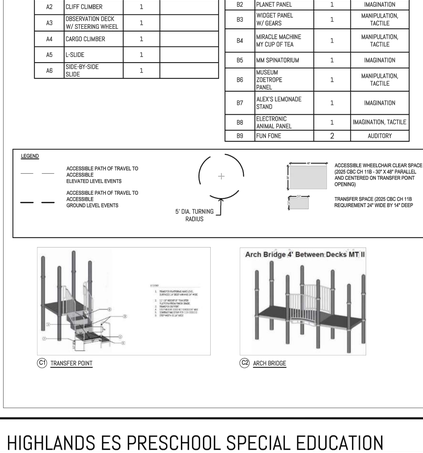
B. MINIMUM NUMBER AND TYPES OF GROUND LEVEL PLAY COMPONENTS ON ACCESSIBLE ROUTES

GROUND LEVEL ACTIVITY TYPE:	4	REQ'D: 3
GROUND LEVEL ACTIVITY QUANTITY:	11	REQ'D: 3

KEY	NAME OF COMPONENT ON ACCESSIBLE ROUTE	NUMBER OF PLAY ACTIVITIES	GROUND LEVEL PLAY ACTIVITY TYPE
B1	TRUCK	1	IMAGINATION, MANIPULATIVE
B2	TRAFFIC LIGHT	1	IMAGINATION
B3	CONCERTO 3-CONGAS	1	AUDITORY
B4	DOUBLE STUMP SEAT	1	IMAGINATION
B5	CRUNCH STATION	1	UPPER BODY
B6	VERY BURIED PANEL	1	IMAGINATION
B7	TIC TAC TOE PANEL	1	MANIPULATIVE
B8	ELECTRONIC PIANO PANEL	1	AUDITORY
B9	HOW TALL RU	1	IMAGINATION

LEGEND
- ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE ELEVATED LEVEL EVENTS
- ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE GROUND LEVEL EVENTS
- 5' DIA. TURNING RADIUS
- ACCESSIBLE WHEELCHAIR CLEAR SPACE (2025 CBC CH 118 REQUIREMENT - 30" X 48" PARALLEL AND CENTERED ON TRANSFER POINT OPENING)
- TRANSFER SPACE (2025 CBC CH 118 REQUIREMENT 24" WIDE BY 14" DEEP





C1 TRANSFER POINT
C2 ADA STAIRS

HIGHLANDS ES TK/KINDER

PITTSBURG, CA

PERIMETER:	151-7	VERSION 3	
SITE AREA:	1399 SF	DATE:	04/20/2025
CRITICAL FALL HEIGHT:	6' - 2"	DRAWN BY:	FA/LDL
DESIGN CONCEPT		FILE: 25-8463_HIGHLANDS ES TKKINDER_003.DWG	

ALL DRAWINGS ARE SUBJECT TO CHANGE AND SHOULD BE REVIEWED BEFORE FINAL SALE. ALL SITE DIMENSIONS WILL NEED TO BE VERIFIED PRIOR TO SALE AND INSTALLATION.

TK PLAY YARD RENDERING

SCALE: N/A



Color Used In Rendering

Royal Blue Decks | Blue | Yellow

Colors shown in rendering are for illustrative purposes only. Actual color and pattern may vary slightly.

12/11/2025
25-8462_Highlands ES
Preschool_001_12/11/2025

Creating Fun Play Environments to Enrich Communities

ENLARGED TK PLAY YARD ACCESS PLAN

SCALE:AS NOTED

PLAY AREA - AGE APPROPRIATE 2-5 YEARS: CAPACITY: 82-95 CHILDREN

NOTES:
1. ANY TRANSFER STEPS TO BE STRIPED PER 11B-504.4.1
2. USE ZONES FINISH SURFACE COMPLIES W/ ASTM F1292 (latest edition).
3. GROUND SURFACING SHALL COMPLY WITH ASTM F1951 (latest edition).
4. PLAYGROUND EQUIPMENT COMPLIES WITH ASTM F1487 (latest edition).
5. THIS PLAY AREA MEETS CBC SECTION 11 B-1008

CRITICAL FALL HEIGHT-3' - 1"
SITE AREA- SF 942 LF 122' - 1"
DRAWN BY: FA

A. LIST OF ELEVATED PLAY COMPONENTS

ELEVATED PLAY ACTIVITIES (TOTAL):	8	
ELEVATED PLAY ACTIVITIES ACCESSIBLE VIA TRANSFER:	8	REQ'D: 4
ELEVATED PLAY ACTIVITIES ACCESSIBLE VIA RAMP:	0	REQ'D: 0

KEY	NAME OF COMPONENT ON ACCESSIBLE ROUTE	NUMBER #	NAME OF COMPONENT NOT ON ACCESSIBLE ROUTE
A1	TOT ROCK CLIMBER	1	
A2	CLIFF CLIMBER	1	
A3	OBSERVATION DECK W/ STEERING WHEEL	1	
A4	CARGO CLIMBER	1	
A5	L-SLIDE	1	
A6	SIDE-BY-SIDE SLIDE	1	

B. MINIMUM NUMBER AND TYPES OF GROUND LEVEL PLAY COMPONENTS ON ACCESSIBLE ROUTES

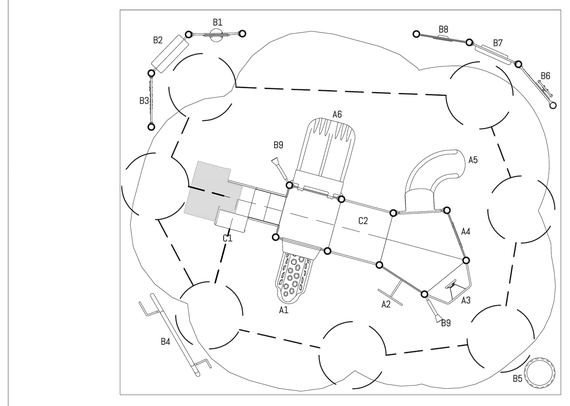
GROUND LEVEL ACTIVITY TYPE:	4	REQ'D: 2
GROUND LEVEL ACTIVITY QUANTITY:	9	REQ'D: 2

KEY	NAME OF COMPONENT ON ACCESSIBLE ROUTE	NUMBER OF PLAY ACTIVITIES	GROUND LEVEL PLAY ACTIVITY TYPE
B1	INTERACTIVE PANEL VERY BURIED INSERT	1	IMAGINATION
B2	PLANET PANEL	1	IMAGINATION
B3	WIDGET PANEL W/ GEARS	1	MANIPULATION, TACTILE
B4	MIRACLE MACHINE W/ CUP OF TEA	1	MANIPULATION, TACTILE
B5	MM SPINATORIUM	1	IMAGINATION
B6	MUSEUM ZOETROPE PANEL	1	MANIPULATION, TACTILE
B7	ALEX'S LEMONADE STAND	1	IMAGINATION
B8	ELECTRONIC ANIMAL PANEL	1	IMAGINATION, TACTILE
B9	FUN FONE	2	AUDITORY

LEGEND
- ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE ELEVATED LEVEL EVENTS
- ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE GROUND LEVEL EVENTS
- 5' DIA. TURNING RADIUS
- ACCESSIBLE WHEELCHAIR CLEAR SPACE (2025 CBC CH 118 - 30" X 48" PARALLEL AND CENTERED ON TRANSFER POINT OPENING)
- TRANSFER SPACE (2025 CBC CH 118 REQUIREMENT 24" WIDE BY 14" DEEP

C1 TRANSFER POINT

C2 ARCH BRIDGE



NORTH

0 4' 8' 12'

HIGHLANDS ES PRESCHOOL SPECIAL EDUCATION

PITTSBURG, CA

PERIMETER:	123 - 1	VERSION 1	
SITE AREA:	942 SF	DATE:	04/20/2026
CRITICAL FALL HEIGHT:	3' - 1"	DRAWN BY:	FA
ACCESSIBLE PATH OF TRAVEL		FILE: 25-8462_HIGHLANDS ES PRESCHOOL_001.DWG	

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Project 2511

Highlands ES Portables Replacement Project Increment 1

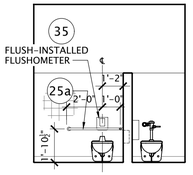
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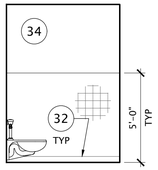
ENLARGED PLAY YARD ACCESS PLANS

A2.05

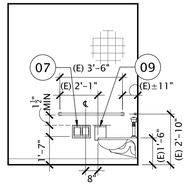
Date
April 17, 2026



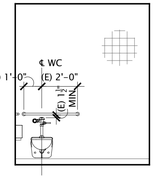
A – NORTH INTERIOR



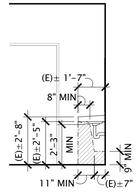
B – EAST INTERIOR



A – SOUTH INTERIOR



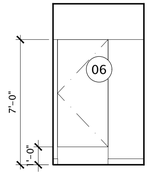
B – WEST INTERIOR



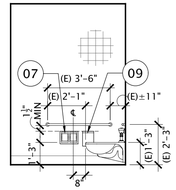
C – (E) LAV.

1 STAFF RR 78: INTERIOR ELEVATIONS

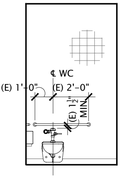
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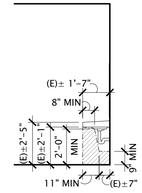
A – EAST INTERIOR



B – SOUTH INTERIOR



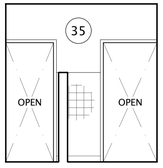
C – WEST INTERIOR



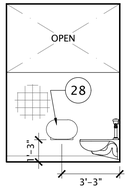
D – (E) LAV.

2 GIRLS RR 79 (AGES 6–11): INTERIOR ELEVATIONS

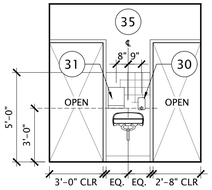
SCALE: 1/4" = 1'-0"



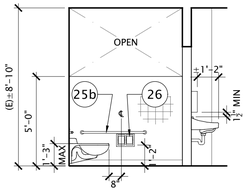
C – SOUTH INTERIOR



D – EAST INTERIOR



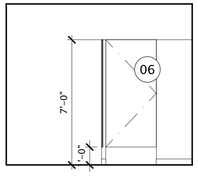
E – NORTH EXTERIOR



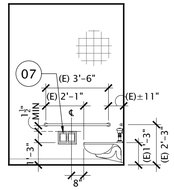
F – EAST INTERIOR

3 T-K RESTROOMS 37 (AGES 4–5): INTERIOR ELEVATIONS

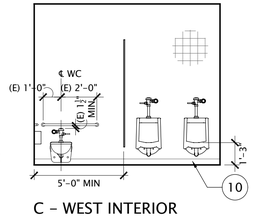
SCALE: 1/4" = 1'-0"



A – EAST INTERIOR



B – SOUTH INTERIOR



C – WEST INTERIOR

4 BOYS RR 83 (AGES 6–11): INTERIOR ELEVATIONS

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

5 T-K RESTROOMS 37 (AGES 4–5) ENLARGED PROPOSED PLAN

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

6 RESTROOMS 78 & 79: ENLARGED PROPOSED PLAN

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

7 RESTROOMS 83: ENLARGED PROPOSED PLAN

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

8 TK RESTROOMS 37: ENLARGED DEMO PLAN

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

9 RESTROOMS 78 & 79: ENLARGED DEMO PLAN

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

10 RESTROOMS 83: ENLARGED DEMO PLAN

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

SHEET NOTES

(SEE A1.05 FOR APPLICABLE SHEET NOTES)

KEYNOTES

01 REMOVE EXISTING FLOOR-MOUNTED TOILET PARTITION & DOOR.

02 REMOVE EXISTING WALL-MOUNTED TOILET TISSUE DISPENSER.

03 REMOVE EXISTING URINAL PRIVACY PARTITION.

04 REMOVE EXISTING WALL-HUNG URINALS AND FITTINGS.

05 REMOVE & REPLACE EXISTING 2X STUD PARTITION AS REQUIRED FOR INSTALLATION OF NEW FIXTURES.

06 PROVIDE & INSTALL FLOOR-MOUNTED TOILET PARTITIONS (BOBRICK DuraLineSeries CGL 1081, FINISH "Graphite Grafix") PER MFR'S RECOMMENDATIONS. PROVIDE IN-WALL BLOCKING PER 4/A2.07 AT WALL CONNECTIONS AND (2) 3/8IN DIA. S.S. R.H.M.S. INTO EXPANSION ANCHORS W/ MIN. 3IN EMBEDMENT TO CONC. SLAB BELOW.

07 PROVIDE & INSTALL BOBRICK SURFACE-MOUNTED TOILET TISSUE DISPENSER (B-3588) W/ IN-WALL BLOCKING PER 4/A2.07.

08 PROVIDE & INSTALL WALL-HUNG URINAL (SLOAN ST-2459) & IN-WALL CARRIER PER 6/A2.07 WITH MANUAL FLUSHOMETER (SLOAN REGAL 186-0.125-XL-CP).

09 PROVIDE & INSTALL BOBRICK WALL-MOUNTED SANITARY DISPOSAL (B-270) W/ IN-WALL BLOCKING PER 4/A2.07.

10 PROVIDE & INSTALL 4IN RUBBER BASE AT NEWLY INSTALLED/MODIFIED WALL.

11 PROTECT EXISTING FIRE ALARM HORN AND STROBE IN PLACE.

21 REMOVE EXISTING BATHROOM PARTITIONS, DOORS & FRAMING, PARTIAL-HEIGHT WALLS, PLUMBING FIXTURES, FITTINGS AND FINISHES.

22 REMOVE EXISTING WALL-HUNG SINK, FITTINGS, AND ADJACENT ACCESSORIES.

23 PROVIDE & INSTALL PARTIAL-HEIGHT 2X PARTITION W/ CT CAP. SEE 3/A2.07 FOR SIM.

24 PROVIDE & INSTALL WALL-HUNG WATER CLOSET (SLOAN ST-2469 W/ AMERICAN STANDARD 5001G055.020 COVER) & IN-WALL CARRIER WITH MANUAL FLUSHOMETER (SLOAN CX 158-1.28-CP).

25 PROVIDE & INSTALL GRAB BAR WITH IN-WALL BLOCKING PER 4/A2.07
a. 36IN (B-5806X36)
b. 42IN (B-5806X42)

26 PROVIDE & INSTALL BOBRICK RECESSED TOILET TISSUE DISPENSER (B-35883).

27 PROVIDE & INSTALL WALL-HUNG WATER CLOSET (SLOAN ST-2459 W/ AMERICAN STANDARD 5001G055.020 COVER) & IN-WALL CARRIER WITH MANUAL FLUSHOMETER (SLOAN ROYAL 111-1.28-CP).

28 PROVIDE & INSTALL BOBRICK TOILET TISSUE DISPENSER (B-2892) W/ IN-WALL BLOCKING PER 4/A2.07.

29 PROVIDE & INSTALL WALL-HUNG LAVATORY, CARRIER, AND P-TRAP COVER (AMERICAN STANDARD 0355012.020 W/ 6114117.002) PER MFR'S RECOMMENDATIONS & 6.A2.07. PROVIDE IN-WALL BLOCKING PER 4/A2.07.

30 PROVIDE & INSTALL BOBRICK SURFACE-MOUNTED SOAP DISPENSER (B-2111) W/ IN-WALL BLOCKING PER 4/A2.07. SEE 6/A2.07 FOR INSTALL HEIGHTS.

31 PROVIDE & INSTALL BOBRICK SURFACE-MOUNTED PAPER TOWEL DISPENSER (B-262) W/ IN-WALL BLOCKING PER 4/A2.07. SEE 6/A2.07 FOR INSTALL HEIGHTS.

32 PROVIDE & INSTALL 4IN RUBBER BASE, TYP ALL LOCATIONS.

33 PROVIDE & INSTALL FULL-HEIGHT 2X PARTITION PER 3/A2.07.

34 PROVIDE & INSTALL FRAMED DOOR OPENING.

35 PROVIDE & INSTALL PAINTED 5/8IN TYPE-X WP GWB ABOVE TILE WAINSCOAT.

36 PROTECT EXISTING FA HORN IN PLACE. RELOCATE STROBE TO NEW WALL AS REQUIRED.

37 EXISTING DOOR & STRIKE SIGNAGE TO REMAIN PER DSA 01-101751.

LEGEND

- EXISTING 2X STUD WALL TO REMAIN
- EXISTING PRECAST CONC. WALL TO REMAIN
- EXISTING 2X STUD WALL TO BE REMOVED
- FULL-HEIGHT 2X PARTITION
- PARTIAL-HEIGHT 2X PARTITION WITH CT CAP. SEE 3/A2.07 FOR SIMILAR
- DALTILE COLOR WHEEL CERAMIC 4X4 WALL TILE IN "BISCUIT K175," TYP ALL WALLS U.O.N.
- 30x48 ACCESSIBLE CLEAR FLOOR SPACE
- T-SHAPED TURNING SPACE
- 60IN DIA. TURNING RADIUS
- A — WALL TYPE PER 3/A2.07
- 05 — KEYNOTE, SEE ABOVE

IDENTIFICATION STAMP
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APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

LICENSED ARCHITECT ROBERTA ANN PLUM C28332 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

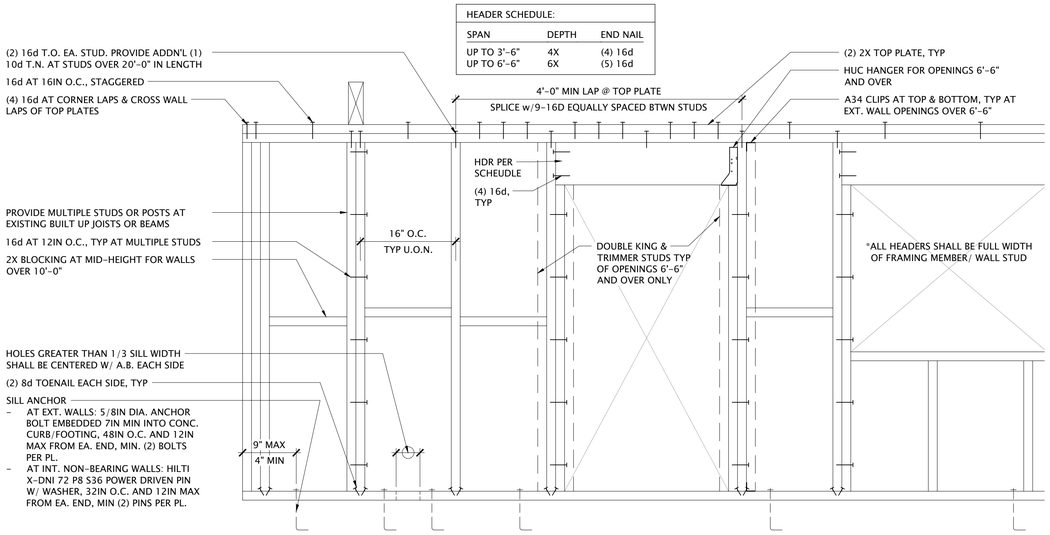
4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS

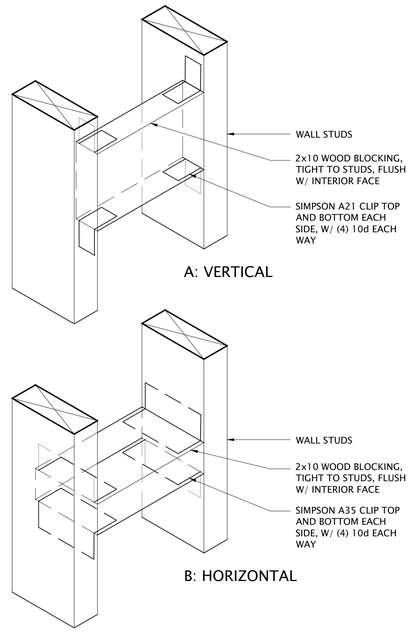
A2.06

Date
April 17, 2026



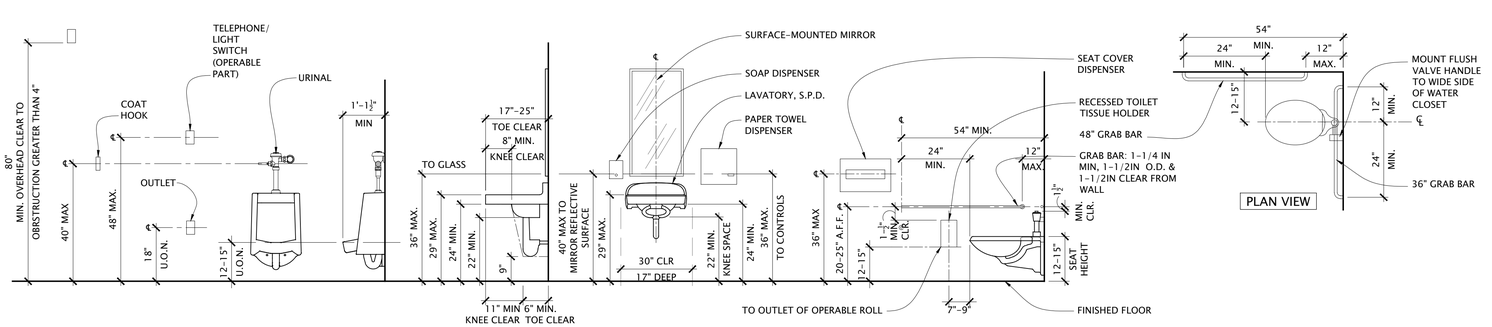
5 TYPICAL NON-BEARING STUD WALL

DET_TypWDFraming.dwg — SCALE: 1" = 1'-0"



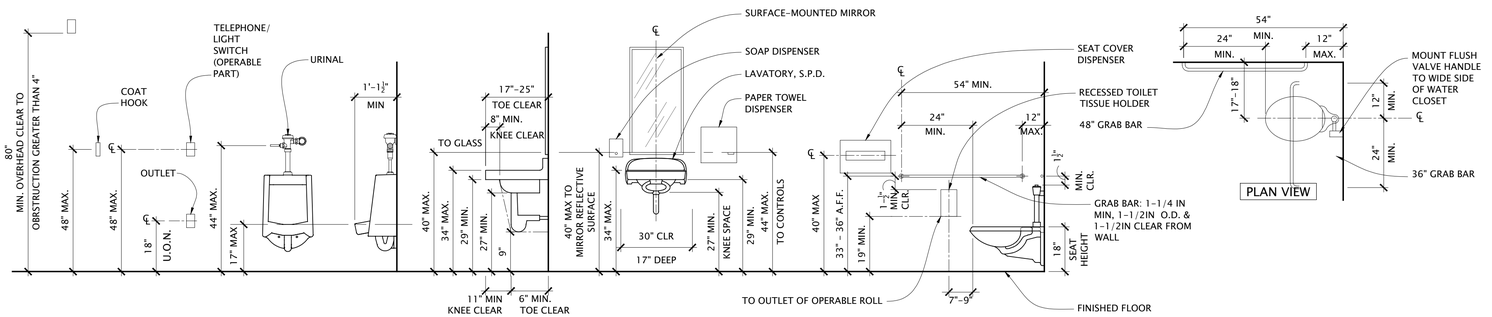
4 BLOCKING @ WD STUD WALL

Wall-blocking-wd.dwg — N.T.S.



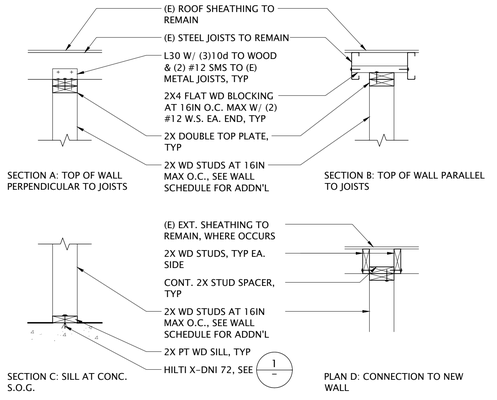
6 STANDARD ACCESSIBLE MOUNTING HEIGHTS/CLEARANCES: AGES 5-8

Restroom Fixtures_Standard Hts_Adult_Stacked.dwg — SCALE: 1/2" = 1'-0"



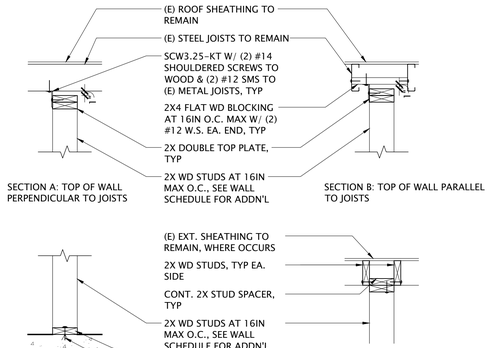
7 STANDARD ACCESSIBLE MOUNTING HEIGHTS/CLEARANCES: ADULT

Restroom Fixtures_Standard Hts_Adult_Stacked.dwg — SCALE: 1/2" = 1'-0"



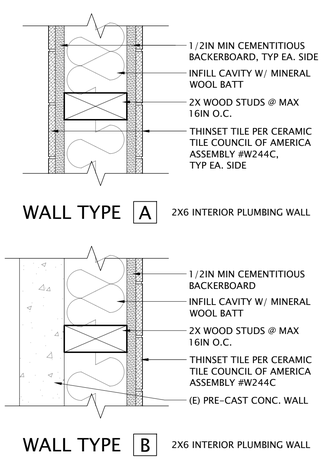
1 TYPICAL FRAMING CONNECTIONS

DET_TypWDFramingCNX.dwg — SCALE: 3/4" = 1'-0"



2 TYPICAL INT. FRAMING CONNECTIONS

DET_TypWDFramingCNX.dwg — SCALE: 3/4" = 1'-0"



3 TYPICAL NON-BEARING WALL

DET_Wall-Types.dwg — SCALE: 3" = 1'-0"

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LICENSED ARCHITECT ROBERTA ANN PLUM C28312 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
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Pittsburg Unified School District

Sheet

INTERIOR DETAILS

A2.07

Date
April 17, 2026



1 PROPOSED SITE PLANTING PLAN

SCALE: 1" = 40'-0"

PLANTING SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	PLANT TYPE
	"INSTALL SIZE" to mature to "HEIGHT x WIDTH," QTY (#); ADDN'L NOTES		
AS	Platanus occidentalis	American Sycamore	Tree
	36" box to mature to 75'H x 60'W, QTY(7); *standard*		
CM	Lagerstroemia indica 'Biloxi'	Biloxi Crape Myrtle	Tree
	24" box to mature to 30'H x 20'W, QTY(27); *standard*		
CP	Pistacia chinensis	Chinese Pastiche	Tree
	36" box to mature to 50'H x 30'W, QTY(7); *standard*		
GB	Gingko biloba	Maidenhair Tree	Tree
	36" box to mature to 40'H x 35'W, QTY(13); *standard*		
MG	Magnolia grandiflora	Southern Magnolia	Tree
	36" box to mature to 60'H x 40'W, QTY(10); *standard*		
Mpl	Acer buergerianum	Trident Maple	Tree
	36" box to mature to 20'H x 20'W, QTY(19); *standard*		
PT	Pinus thunbergii	Japanese Black Pine	Tree
	36" box to mature to 30'H x 30'W, QTY(11); *standard*		

GENERAL PLANTING SHEETNOTES

A. CONTRACTOR SHALL SPACE PLANTING AS SHOWN ON PLAN AND PER THE SPACING BY SPECIES IDENTIFIED IN THE PLANTING LEGEND.

B. TREES AND SHRUBS SHALL BE PLANTED SO THAT AT MATURITY ROOTS ARE A MINIMUM 5FT FROM WATER LINES AND 10FT FROM SANITARY SEWER LINES.

C. CONTRACTOR SHALL SPACE PLANTINGS SO AS TO MAINTAIN ±10FT∅ OF CLEAR SPACE AROUND EXISTING AND INSTALLED TREE TRUNKS.

D. CONTRACTOR SHALL PROVIDE MINIMUM 3IN OF MULCH ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS. SEE A1.02 FOR EXTENT OF MULCHED AREAS.

E. CONTRACTOR SHALL PROVIDE AND INSTALL 90/10 FESCUE/BLUE BLEND (10 LBS/1000 SQFT; 32.72% UNITUS TALL FESCUE, 32.68% CAYENNE TALL FESCUE, 24.07% GUARDIAN 41 TALL FESCUE, 9.92% SR2100 KENTUCKY BLUEGRASS HYDROSEED MIX AT LAWN AREA(S) IMPACTED BY SCOPE OF WORK.

CALGREEN SHADE TREE CALCULATIONS

SURFACE PARKING AREA, PARKING LOT A

TOTAL PARKING AREA	±8,865 SQFT
TOTAL REQ'D SHADE AREA (50%)	4,433 SQFT
TOTAL PROVIDED SHADE TREES	±4,841 SQFT

SURFACE PARKING AREA, PARKING LOT B

TOTAL PARKING AREA	±16,466 SQFT
TOTAL REQ'D SHADE AREA (50%)	8,233 SQFT
TOTAL PROVIDED SHADE TREES	±16,462 SQFT

LANDSCAPE AREA, PARKING LOT A

TOTAL LANDSCAPE AREA	±1,163 SQFT
TOTAL REQ'D SHADE AREA (20%)	233 SQFT
TOTAL PROVIDED SHADE TREES	±1,215 SQFT

LANDSCAPE AREA, NEW CLASSROOM BUILDING 6A & 6B

TOTAL LANDSCAPE AREA	±6,760 SQFT
TOTAL REQ'D SHADE AREA (20%)	1,352 SQFT
TOTAL PROVIDED SHADE TREES	±6,476 SQFT

HARDSCAPE AREA, TK YARD

TOTAL LANDSCAPE AREA	±4,260 SQFT
TOTAL REQ'D SHADE AREA (20%)	924 SQFT
TOTAL PROVIDED SHADE TREES	690 SQFT
TOTAL PROVIDED SHADE CANOPY	±600 SQFT

HARDSCAPE AREA, KINDER YARD

TOTAL LANDSCAPE AREA	±8,152 SQFT
TOTAL REQ'D SHADE AREA (20%)	1,631 SQFT
TOTAL PROVIDED SHADE TREES	1,742 SQFT
TOTAL PROVIDED SHADE CANOPY	±600 SQFT

HARDSCAPE AREA, NORTH COURTYARD

TOTAL LANDSCAPE AREA	±3,300 SQFT
TOTAL REQ'D SHADE AREA (20%)	XX SQFT
TOTAL PROVIDED SHADE TREES	±915 SQFT
TOTAL PROVIDED SHADE CANOPY	±1,200 SQFT

HARDSCAPE AREA, NORTH KINDER YARD

TOTAL LANDSCAPE AREA	±3,200 SQFT
TOTAL REQ'D SHADE AREA (20%)	640 SQFT
TOTAL PROVIDED SHADE TREES	±915 SQFT

LEGEND

EXISTING BUILDING TO REMAIN

OUTLINE OF PROPOSED CLASSROOM BUILDING, INCREMENT 2

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Project 2511

Highlands ES Portables Replacement Project Increment 1

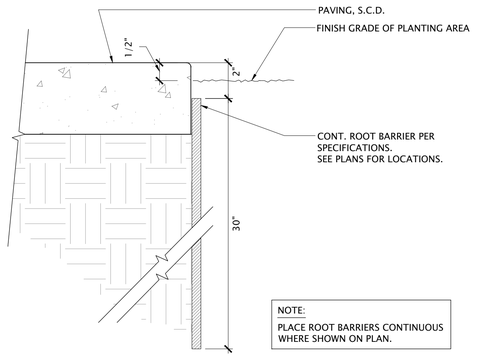
4141 Harbor Street
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Pittsburg Unified School District

Sheet

PROPOSED SITE PLANTING PLAN

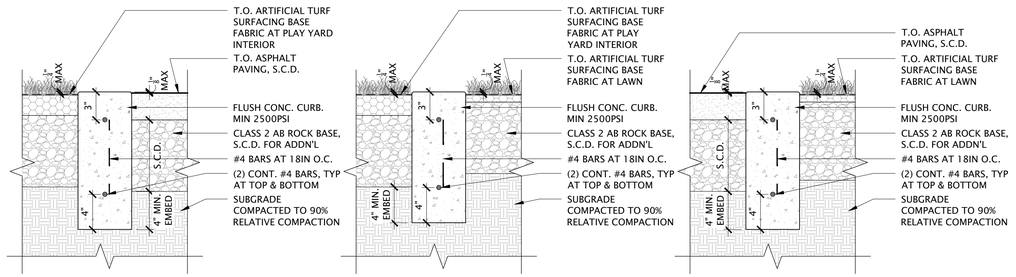
A3.02

Date
April 17, 2026



10 ROOT BARRIER

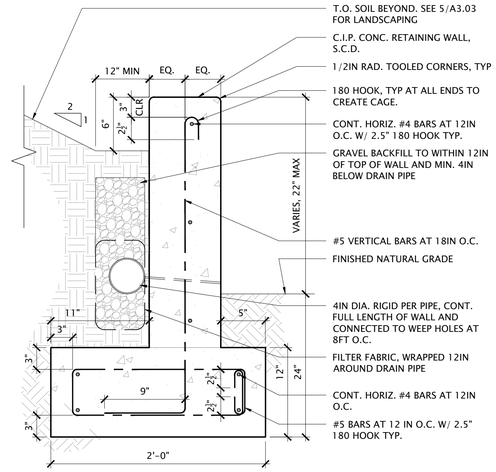
root barrier.dwg — SCALE: 3" = 1'-0"



A: ASPHALT TO PLAY YARD — B: LAWN TO PLAY YARD — C: ASPHALT TO LAWN

7 TK/KINDER YARD EDGE TRANSITIONS

det_pavingsections.dwg — SCALE: 1-1/2" = 1'-0"



1 CONCRETE RETAINING WALL

concrete seat wall.dwg — SCALE: 1-1/2" = 1'-0"

NOTE: TREES NOT IN WIDE HOLES WILL BE REPLANTED. FILL PLANTING HOLE WITH WATER PRIOR TO PLANTING.

11 PLANTING SECTION: TREE & 2 STAKES

site_landscape_shrub.dwg — SCALE: 1/2" = 1'-0"

8 IMPORTED TOPSOIL: SOIL AMENDMENT SECTION

site_soil-amendment.dwg — SCALE: N.T.S.

5 PLANTER EDGE AT RAISED CURBS

site_landscape edge.dwg — SCALE: 2" = 1'-0"

2 GRADE AT EDGE OF AC PAVING

site_landscape edge.dwg — SCALE: 2" = 1'-0"

12 PLANTING SECTION: 1-5 GAL SHRUB

site_landscape_shrub.dwg — SCALE: 1/2" = 1'-0"

9 ON-SITE TOPSOIL: SOIL AMENDMENT SECTION

site_soil-amendment.dwg — SCALE: 3" = 1'-0"

6 PLANTER EDGE AT CURB

site_landscape edge.dwg — SCALE: 2" = 1'-0"

3 GRADE AT EDGE OF PAVING

site_landscape edge.dwg — SCALE: 2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
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LICENSED ARCHITECT ROBERTA ANN PLUM C28312 Ren.06-30-27 STATE OF CALIFORNIA

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
DSA BACKCHECK SUBMITTAL	04/02/26
DSA BACKCHECK SUBMITTAL	04/20/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

LANDSCAPE DETAILS

A3.03

Date
April 17, 2026

HIGHLANDS ES PORTABLES REPLACEMENT – 225064\CAD\INC 1

ELECTRICAL EQUIPMENT ANCHORAGE

ELECTRICAL ANCHORAGE NOTES:

ALL 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 2025 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, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

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

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

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 2025 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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

ELECTRICAL DISTRIBUTION SYSTEMS ARE:
[X] - OPTION 1: PROJECT-SPECIFIC DESIGN
[ ] - OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
[ ] - OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

LIGHT FIXTURES:

ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS, AND EXISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING CONDITIONS IS THE RESULT OF VISUAL FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED, HOWEVER, AS A GUIDE FOR USE IN CONTRACTOR VERIFICATION ONLY .
2. FOR ANY EXISTING ELECTRICAL EQUIPMENT OR DEVICES IN THE AREA OF NEW CONSTRUCTION, IF THE DISPOSITION OF SUCH ITEMS ARE NOT SHOWN ON THE PLANS, THE CONTRACTOR SHALL DOCUMENT SUCH CONDITIONS AND SUBMIT TO THE PROJECT MANAGER FOR DETERMINATION OF REQUIRED ACTION.
3. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL (OR SOURCE) SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL (OR SOURCE) SHALL BE MARKED "SPARE" OR AS APPROPRIATE. THIS APPLIES TO POWER, LIGHTING, FIRE ALARM AND OTHER LOW VOLTAGE SYSTEMS EQUIPMENT, CONDUIT, AND WIRING.
4. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE OTHER EXISTING EQUIPMENT IN USE, WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO POWER, LIGHTING, FIRE ALARM AND OTHER LOW VOLTAGE SYSTEMS EQUIPMENT, CONDUIT, AND WIRING.
5. WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING ELECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE WITH MINIMUM INTERRUPTIONS OF POWER.
6. CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
7. ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE OR PANEL.
8. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE SOME SPECIAL CONSIDERATIONS.
9. WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL EXISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REQUIRED, THESE SAME BRANCH CIRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO BOTH POWER, LIGHTING, FIRE ALARM AND OTHER LOW VOLTAGE SYSTEMS EQUIPMENT, CONDUIT, AND WIRING.
10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
11. REMOVE ALL ABANDONED CONDUIT AND WIRING, EITHER EXPOSED AND/OR IN CONCEALED AREAS (INCLUDING ABOVE CEILINGS OR IN ATTIC AND CRAWL SPACES).
12. WHEN ELECTRICAL EQUIPMENT OR DEVICES ARE REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN, PATCH AND PAINT ABANDONED OPENINGS TO MATCH EXISTING FINISH.
13. EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED, SHALL BE COMPLETELY REMOVED (INCLUDING CONDUIT AND WIRING BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC., OR SOURCE), UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR, PRIOR TO DEMO.
14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE OR SOURCE.
15. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS.
16. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
17. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED.
18. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT. EQUIPMENT TO BE TEMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED, RE-INSTALLED, AND RECONNECTED IN ITS ORIGINAL CONDITION.
19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

SYMBOLS LIST

- H — FIRE ALARM SYSTEM MAGNETIC DOOR HOLD-OPEN
- S — WALL-MOUNTED BEAM SMOKE DETECTOR - TRANSMITTING UNIT; MOUNT 18" BELOW CEILING LEVEL, U.O.N.
- S — WALL-MOUNTED BEAM SMOKE DETECTOR - RECEIVING UNIT; MOUNT IN EXACT HORIZONTAL & VERTICAL ALIGNMENT WITH CORRESPONDING TRANSMITTING UNIT
- S — CEILING-MOUNTED BEAM SMOKE DETECTOR - TRANSMITTING UNIT
- S — CEILING-MOUNTED BEAM SMOKE DETECTOR - RECEIVING UNIT; MOUNT IN EXACT HORIZONTAL & VERTICAL ALIGNMENT WITH CORRESPONDING TRANSMITTING UNIT
- FIRE ALARM SYSTEM END-OF-LINE RESISTOR
- FSD — FIRE SMOKE DAMPER BY MECHANICAL. COORDINATE WITH MECHANICAL FOR MONITORING TO FIRE ALARM SYSTEM (INCLUDING SMOKE DETECTOR PROVISIONS). CONTROL OF DAMPER TO BE BY MECHANICAL, U.O.N. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- WEATHERPROOF ENCLOSURE
- CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
- CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND
- CONDUIT AND WIRE RUN EXPOSED
- CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, NO HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.
- GROUND WIRE
- (#10) — WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE, THROUGHOUT THE COMPLETE CIRCUIT
- FLEXIBLE METALLIC CONDUIT
- HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
- COMPLETE CONNECTION OF EQUIPMENT
- CONDUIT STUBBED OUT, CAPPED AND MARKED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- G — #4/0 COPPER GROUNDING ELECTRODE CONDUCTOR, U.O.N.
- AC-1 — MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS
- 3 / E-5 — DETAIL DESIGNATION - SEE DETAIL 3, SHEET E-6
- 1 — NUMBERED SHEET NOTE
- 2 — NUMBERED SHEET NOTE THAT REFERS TO TYPICAL ITEMS ON SHEET
- M — UTILITY METER
- CT'S — CURRENT TRANSFORMERS
- 30A 3P — CIRCUIT BREAKER. NUMBER INDICATES 30A 3-POLE
- 1504N — FEEDER SIZE - SEE POWER SINGLE LINE DIAGRAMS & FEEDER SCHEDULE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CATV	CABLE TV
CO	CONDUIT ONLY
CU	COPPER
E.C.	ELECTRICAL CONTRACTOR
E	EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER, SWITCHABLE, U.O.N.
EM	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE
EMS	ENERGY MANAGEMENT SYSTEM
(E)	EXISTING
EQPT	EQUIPMENT
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
EXT	EXTERIOR
FMC	FLEXIBLE METALLIC CONDUIT
FTL	FEED THROUGH LUGS
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
L	LOCKABLE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU	NEUTRAL
N.I.E.C.	NOT IN ELECTRICAL CONTRACT
O.A.H.	OVERALL HEIGHT
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PA	PUBLIC ADDRESS
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
STC	SIGNAL TERMINAL CABINET
TC	INDICATES FIXTURES ON TIMECLOCK CONTROL
TELE	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
U.O.N.	UNLESS OTHERWISE NOTED
VAV	VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
WP	WEATHER PROOF, NEMA 3R
WPIU	WEATHER PROOF WHILE IN USE
(2)	NUMBER INDICATES QUANTITY

SYMBOLS LIST

- MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP
- SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP
- FUSED EQUIPMENT DISCONNECT SWITCH WITH FUSE SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER
- MOTOR DISCONNECT SWITCH; HORSEPOWER RATED, NON FUSE
- COMBINATION MAGNETIC MOTOR STARTER & MOTOR CIRCUIT PROTECTOR
- MAGNETIC MOTOR STARTER
- VFD — VARIABLE FREQUENCY DRIVE, FURNISHED BY MECHANICAL, INSTALLED & CONNECTED COMPLETE BY ELECTRICAL
- MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION
- MOTOR WITH FLEXIBLE CONDUIT CONNECTION AND DISCONNECT
- $m — LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN
- T — TRANSFORMER
- EV — ELECTRIC VEHICLE CHARGER
- CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE
- COPPER GROUND ROD
- FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.
- FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
- J — JUNCTION BOX FLUSH FLOOR MOUNTED
- 20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, WEATHERPROOF, UP 18" U.O.N.
- GFI — 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N.
- IG — 20A 3PG 125V DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- 20A 3PG 125V SINGLE RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V SINGLE TWISTLOCK RECEPTACLE, NEMA L5-20R, UP 18" U.O.N.
- SPECIAL RECEPTACLE AS INDICATED ON PLANS
- HALF CONTROLLED AND IDENTIFIED DUPLEX RECEPTACLE WIRED THROUGH LOCAL PLUG-LOAD CONTROLLER FOR ONE HALF OF DUPLEX, UP 18" U.O.N.
- FLUSH IN FLOOR OUTLET BOX WITH QUANTITY OF 20A 3PG 125V DUPLEX RECEPTACLES AS INDICATED ON PLANS
- FLUSH CEILING MTD. DUPLEX OUTLET, 20A 3PG
- LINE VOLTAGE THERMOSTAT, FURNISHED BY MECHANICAL & INSTALLED BY ELECTRICAL, INCLUDING WIRING
- SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON PLANS
- TERMINAL MOUNTING BACKBOARD, 3/4" PLYWOOD, DIMENSIONS AS NOTED ON PLANS, PAINT TO MATCH ADJACENT WALL SURFACE, MAINTAINING UL FIRE LABEL VISIBLE
- TELEPHONE OUTLET, UP 18" U.O.N.
- W — TELEPHONE OUTLET, UP 48" U.O.N.
- 2D — COMBINED TELEPHONE/DATA OUTLET, UP 18" U.O.N.
- NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS
- COMBINED VOICE/DATA OUTLET, MOUNTED ABOVE COUNTER U.O.N.
- INTERCOM HANDSET, UP 48" U.O.N.
- WAP — WIRELESS ACCESS POINT (WAP) W/CAT6 CABLE/JACKS AT CEILING
- WALL MOUNTED SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
- TV — WALL MOUNTED VIDEO OUTLET, UP 18" U.O.N.
- FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N.
- FLUSH WALL MOUNTED OUTDOOR WEATHERPROOF PUBLIC ADDRESS SPEAKER
- FLUSH CEILING MOUNTED INDOOR PUBLIC ADDRESS SPEAKER
- FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER & SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
- F — FIRE ALARM SYSTEM MANUAL PULL STATION, UP 48" U.O.N.
- F 110 — FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- F 110 — WEATHERPROOF FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- H 110 — FIRE ALARM SYSTEM HORN/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- S 110 — FIRE ALARM SYSTEM STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- 110 — FIRE ALARM SYSTEM STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- H — WEATHERPROOF FIRE ALARM SYSTEM HORN, UP 90" U.O.N.
- V 110 — FIRE ALARM SYSTEM SPEAKER/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- H 110 — FIRE ALARM SYSTEM SPEAKER/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- S — FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
- S — WEATHERPROOF FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
- FIRE ALARM SYSTEM SPEAKER, CEILING MOUNTED
- HD — WALL MOUNTED ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE, FURNISHED BY DIV. 8, INSTALLED & CONNECTED COMPLETE TO FIRE ALARM SYSTEM BY DIV. 28
- FS — FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
- FS — FIRE ALARM SYSTEM SPRINKLER VALVE SUPERVISORY SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
- FIV — POST INDICATING VALVE. PROVIDE MONITOR MODULE. SEE CIVIL DRAWINGS
- SPRINKLER FLOW ALARM (PROVIDE BY SPRINKLER CONTRACTOR). CONNECT COMPLETE VIA WATER FLOW SWITCH AUX. CONTACTS. SEE FIRE PROTECTION DRAWINGS
- FIRE ALARM SYSTEM SMOKE DETECTOR
- E — FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR PROGRAMMED FOR AUTOMATIC RECALL OF ELEVATOR
- FIRE ALARM SYSTEM HEAT DETECTOR
- FIRE ALARM SYSTEM HVAC DUCT MOUNTED SMOKE DETECTOR. COORDINATE WITH MECHANICAL FOR SUPPLY, INSTALL AND COMPLETE CONNECTION (INCLUDING CONTROL OF HVAC EQUIPMENT) - SEE SPECIFICATIONS
- FIRE ALARM SYSTEM MONITOR MODULE
- FIRE ALARM SYSTEM CONTROL MODULE
- FIRE ALARM SYSTEM RELAY MODULE
- FIRE ALARM SYSTEM CEILING MOUNTED CARBON MONOXIDE DETECTOR WITH SOUNDER BASE
- FIRE ALARM SYSTEM CEILING MOUNTED AIR SAMPLING PORT

SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.

- AA1 — INDICATES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE
- RECESSED 2'x2', 2'x4' OR 1'x4' LUMINAIRE, FULLY LENSED
- RECESSED 2'x2', 2'x4' LUMINAIRE WITH DECORATIVE ARTICULATED OPTICAL SHIELD
- EM / EMN / EMS — INDICATES EMERGENCY LUMINAIRE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
- SUSPENDED LINEAR LUMINAIRE
- INDICATES AIRCRAFT CABLE SUPPORT POINT (VERIFY WITH MANUFACTURER)
- INDICATES COMBINATION AIRCRAFT CABLE/ELECTRICAL FEED POINT (VERIFY WITH MANUFACTURER)
- SURFACE CEILING, WALL OR COVE MOUNTED LUMINAIRE
- UNDER CABINET LUMINAIRE
- SURFACE OR SUSPENDED STRIP LUMINAIRE
- SURFACE CEILING MOUNTED LUMINAIRE
- PENDANT MOUNTED LUMINAIRE
- DECORATIVE CEILING MOUNTED LUMINAIRE
- SURFACE MOUNTED LIGHTING TRACK WITH TRACK LUMINAIRES
- RECESSED ADJUSTABLE ACCENT LUMINAIRE. ARROW INDICATES AIMING DIRECTION
- RECESSED DOWNLIGHT LUMINAIRE
- RECESSED WALLWASH LUMINAIRE. UNSHADED SIDE INDICATES DIRECTION OF WALL TO BE ILLUMINATED
- RECESSED DOWNLIGHT WITH DECORATIVE TRIM
- RECESSED OR SURFACE MOUNTED LINEAR WALLWASH LUMINAIRE. UNSHADED SIDE INDICATES DIRECTION OF WALL TO BE ILLUMINATED
- RECESSED DOWNLIGHT WITH DECORATIVE TRIM
- WALL MOUNTED LUMINAIRE
- STEPLIGHT RECESSED FLUSH IN WALL
- POLE ARM-MOUNTED AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION WHEN NOT PARALLEL TO ARM ORIENTATION
- POLE ARM-MOUNTED PEDESTRIAN-SCALE WALKWAY OR AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- POST-TOP PEDESTRIAN-SCALE AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- BOLLARD LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT, NON-ADJUSTABLE AIMING
- FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT WITH ADJUSTABLE AIMING FEATURE; ARROW INDICATES AIMING DIRECTION
- FLUSH IN-GROUND WALLWASH UPLIGHT; OPEN AREA INDICATES DIRECTION OF ILLUMINATION
- STEM MOUNTED SIGN LIGHT
- WALL MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
- CEILING MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
- LOW LEVEL WALL MOUNTED EXIT SIGN
- WALL MOUNTED EMERGENCY BATTERY EGRESS LUMINAIRE WITH NUMBER OF ADJUSTABLE LAMP HEADS INDICATED
- $a — LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
- $2 — LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N.
- $3 — LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N.
- $k — LINE VOLTAGE KEY OPERATED TOGGLE SWITCH
- $p — LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N.
- Sab — LOW VOLTAGE MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
- kSab — LOW VOLTAGE KEYED MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
- DIMMER SWITCH
- aOS2 — WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
- aOS2 — WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
- WALL MOUNTED DIGITAL DUAL TECHNOLOGY DIMMING OCCUPANCY SENSOR
- Sa — WALL MOUNTED DIGITAL SWITCH, UP 48" U.O.N.; LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED
- 2Da,b — WALL MOUNTED SINGLE OR MULTI-ZONE DIGITAL DIMMER SWITCH, UP 48" U.O.N.; LOWER CASE LETTERS ADJACENT INDICATE RESPECTIVE ZONES TO BE SIMULTANEOUSLY MANUALLY CONTROLLED; NUMERAL DESIGNATES NUMBER OF ZONES ASSIGNED TO THE DEVICE
- CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
- WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
- LOW VOLTAGE COLD TEMPERATURE PIR OCCUPANCY SENSOR
- CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR
- Z3,Z4 — SINGLE OR MULTI-ZONE SWITCHING OR DIMMING OPEN LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
- Z1 — SINGLE ZONE SWITCHING OR DIMMING CLOSED LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT

HIGHLANDS ES PORTABLES REPLACEMENT – 225064\CAD\INC 1

LUMINAIRE SCHEDULE

TYPE	MOUNTING	DESCRIPTION	MANUFACTURER CATALOG #	LIGHT SOURCE	POWER SUPPLY	VOLTS	INPUT WATTS
BA1	POLE MOUNTED IN LANDSCAPE	POLE MOUNTED SINGLE HEAD LED AREA LUMINAIRE; DIE CAST ALUMINUM HOUSING NOM. 15" W X 22" L X 4" H WITH 7" MOUNTING ARM; TYPE 4 OPTICS WITH BACKLIGHT CONTROL; STANDARD 2200K COLOR TEMPERATURE. POLE MOUNTED TO NOMINAL 18' HIGH ROUND STRAIGHT ALUMINUM POLE MOUNTED IN LANDSCAPE; LUMINAIRE AND HEAD IN MATCHING 'COASTAL CLIMATE' FINISH AS SELECTED BY THE ARCHITECT. LUMINAIRE HEAD: 50LBS	MCGRAW EDISON GALN-SA-1-A-722-U-T4BC-(FINISH) POLE: RSA-4-T-18-A-(FINISH)-(MOUNTING)-1	2200K LED 70 CRI 4600 LM	NON- DIM	UNV	33 W
BA2	POLE MOUNTED IN LANDSCAPE NEAR DRIVE AISLE OR PARKING	SAME AS BA1 EXCEPT 13' POLE MOUNTED ON 18"D X 3'H RAISED POLE BASE IN LANDSCAPE	MCGRAW EDISON GALN-SA-1-A-722-U-T4BC-(FINISH) POLE: RSA-4-T-15(FACTORY CUT TO 13')-A-(FINISH)-(MOUNTING)-1	2200K LED 70 CRI 4600 LM	NON- DIM	UNV	33 W
BA3	POLE MOUNTED IN LANDSCAPE NEAR DRIVE AISLE OR PARKING AND NORTHERN RESY AREA	SAME AS BA1 EXCEPT 9' POLE MOUNTED ON 18"D X 3'H RAISED POLE BASE POLE TO BE 9'H MOUNTED IN LANDSCAPE	MCGRAW EDISON GALN-SA-1-A-722-U-T4BC-(FINISH) POLE: RSA-4-T-10(FACTORY CUT TO 9')-A-(FINISH)-(MOUNTING)-1	2200K LED 70 CRI 4600 LM	NON- DIM	UNV	33 W
BA4	POLE MOUNTED IN LANDSCAPE	SIMILAR TO TYPE BA1 EXCEPT DOUBLE HEAD MOUNTED AT 180° AND WITH TYPE 4 FORWARD THROW OPTICS, PERIMETER FENCE CONTROL TO BE USED WHERE PLACED IN PLAN AND REMAINING SIDE FENCES TO BE STORED AND INSTALLED AS NEEDED IF GLARE BECOMES AN ISSUE IN THE FUTURE . POLE TO BE 16'H MOUNTED IN LANDSCAPE	MCGRAW EDISON GALN-SA1A-722-U-T4FT(x2)-(FINISH) ACCESSORIES: PFS PERIMETER FENCE STYLE SHIELD. (REFER TO PLANS REGARDING WHERE EXTERIOR OPTICS ARE PLACED) POLE: RSA-4-T-18(FACTORY CUT TO 16')-A-(FINISH)-(MOUNTING)-1	2200K LED 70 CRI 4600 LM/HEAD	NON- DIM	UNV	33W/HEAD
BA5	POLE MOUNTED IN ASPHALT WITH RAISED POLE BASE	SIMILAR TO TYPE BA1 EXCEPT T5 OPTICS, , PERIMETER FENCE CONTROL TO BE USED WHERE PLACED IN PLAN AND REMAINING SIDE FENCES TO BE STORED AND INSTALLED AS NEEDED IF GLARE BECOMES AN ISSUE IN THE FUTURE . AND 13' POLE MOUNTED ON 18"D X 3'H RAISED POLE BASE MOUNTED IN ASPHALT	MCGRAW EDISON GALN-SA1A-722-U-5MQ-(FINISH) ACCESSORIES: PFS PERIMETER FENCE STYLE SHIELD. (REFER TO PLANS REGARDING WHERE EXTERIOR OPTICS ARE PLACED) POLE: RSA-4-T-15(FACTORY CUT TO 13')-A-(FINISH)-(MOUNTING)-1	2200K LED 70 CRI 4600 LM	NON- DIM	UNV	33 W
BB1	POLE IN LANDSCAPE	ROUND AREA LIGHT SIDE ARM MOUNT; CONSTRUCTED OF DIE CAST ALUMINUM ALLOY; NOM. 14.0" H X 18.5" D; ANNODIZED ALUMINUM REFLECTOR, SILICONE GASKET AND MECHANICALLY CAPTIVE STAINLESS STEEL FASTENERS. UV STABELIZED ACRYLIC DIFFUSSER TYPE 2 OPTICAL DISTRIBUTION. MOUNTED ON 10' POLE IN LANDSCAPE; WET LOCATION IP65 RATED. STANDARD FINISH AS SELECTED BY THE ARCHITECT WEIGHT - 50 LBS	INVUE MSA-SA1A-722-U-T2-(FINISH) POLE: RSA-4-T-10-A-(FINISH)-(MOUNTING)-1	2200K LED; 70+ CRI 4031 LM	NON- DIM	UNV	34W
BB2	SURFACE IN ASPHALT	SAME AS BB1 EXCEPT WITH T5 OPTICS; MOUNTED ON 10' POLE IN ASPHALT	INVUE MSA-SA1A-722-U-5MQ-(FINISH) POLE: RSA-4-T-10-A-(FINISH)-(MOUNTING)-1	2200K LED; 70+ CRI 4,353 LM	NON- DIM	UNV	34W
BB3	SURFACE IN LANDSCAPE	SAME AS BB1 EXCEPT WITH T5 OPTICS	INVUE MSA-SA1A-722-U-5MQ-(FINISH) POLE: RSA-4-T-10-A-(FINISH)-(MOUNTING)-1	2200K LED; 70+ CRI 4,353 LM	NON- DIM	UNV	34W
BB4	SURFACE IN LANDSCAPE	SAME AS BB1 EXCEPT WITH T4 OPTICS	INVUE MSA-SA1A-722-U-T4W-(FINISH) POLE: RSA-4-T-10-A-(FINISH)-(MOUNTING)-1	2200K LED; 70+ CRI 4,660 LM	NON- DIM	UNV	34W
BC1	SURFACE MOUNT ON CANOPY POST	SMALL-SCALE ADJUSTABLE ACCENT WITH WIDE FLOOD OPTICS. DIE CASE ALUMINUM HOUSING 5-1/8" W X 9-1/8" H X 5-3/8" D; STANDARD MOD FOR 2200K.. ATTACHMENT FOR UPRIGHT MOUNTING ON SUPPORTING POLE. SUITABLE FOR WET LOCATIONS. STANDARD FINISH AS SELECTED BY THE ARCHITECT 3.42 LBS.	ERCO 35574-023 / 34953.00 (MOD) 2200K LED	2200K LED; 90+ CRI 717 LM	NON- DIM	UNV	7.8W
BD1	SURFACE MOUNT ON CANOPY BEAM	LINEAR WET LABEL LUMINAIRE EXTRUDED ALUMINUM CONSTRUCTION NOM. NOMINAL 3 3/4"W X 5 1/8"H PROFILE BY 5'. SEEMLESS LENS. STANDARD FINISH AS SELECTED BY THE ARCHITECT 3.5 LBS/FT	PRUDENTIAL WETBPRO3-LIN-FLSH-TU2-LO-5'-(FINISH)-SAL-SC-UNV-WMC-SUR-ND-(MOD) 2200 KELVIN	2200K LED; 90+ CRI 475 LM PER FOOT	NON- DIM	UNV	19W
BE1	SURFACE WALL	LARGE SCALE SURFACE WEDGE WITH T3 OPTICS. MARINE GRADE EXTRUDED & LM6 ALUMINUM HOUSING 1 1/2" W X 8"H X 4" D; MEMORY RETENTIVE SILICONE GASKET UV STABELIZED 4.9MIL THICK POWDER COATPAINT; CLEAR LOW IRON TEMPERED GLASS LENS; STANDARD MOD FOR 2200K.. IP65 SUITABLE FOR WET LOCATIONS; IK07 IMPACT RESISTANT. STANDARD FINISH AS SELECTED BY THE ARCHITECT 5 LBS.	LIGMAN ULEW-30021-20LED-T3-W20-(MOD 2200 KELVIN)-(FINISH)-120/277	2200K LED; 80+ CRI 2494 LM	NON- DIM	UNV	20W

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Revisions

SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
BACKCHECK SUBMITTAL	03/20/25

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

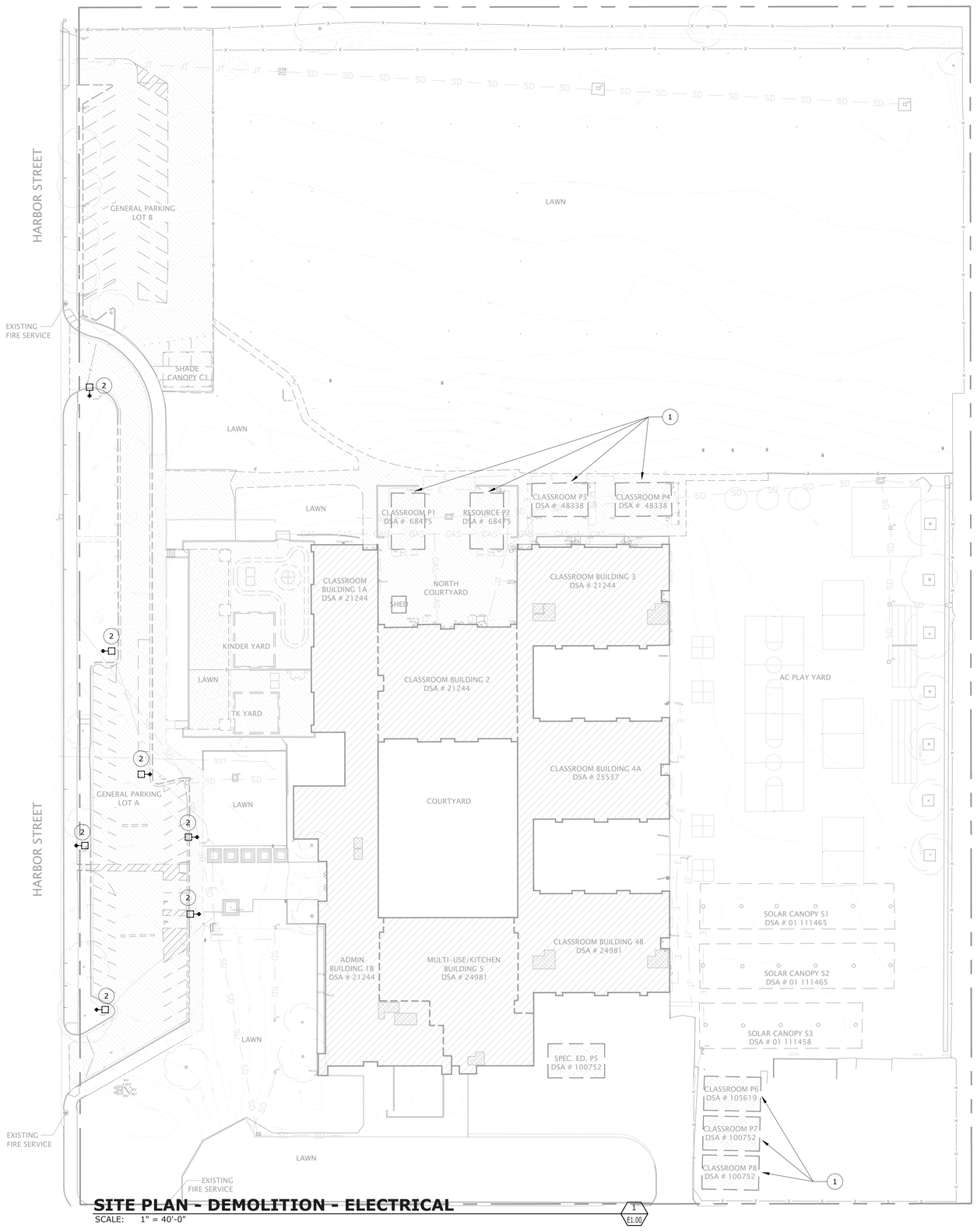
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LUMINAIRE SCHEDULE

E0.02

Date
March 20, 2026

HIGHLANDS ES PORTABLES REPLACEMENT – 225064\CAD\INC 1



SITE PLAN - DEMOLITION - ELECTRICAL
SCALE: 1" = 40'-0"

1 E1.00

NUMBERED SHEET NOTES

1. (E) PORTABLE BUILDING TO BE REMOVED - SEE ARCHITECTURAL PLANS. DISCONNECT AND REMOVE EXISTING SITE ELECTRICAL AND LOW-VOLTAGE CONNECTIONS, INCLUDING ALL EXPOSED CONDUIT BACK TO SOURCE. CUT AND CAP UNDERGROUND CONDUIT FLUSH WITH SURFACE AND ABANDON IN PLACE. SEE GENERAL DEMO NOTES, SHEET E0.01.
2. EXISTING POLE MOUNTED LIGHTING TO BE REMOVED. DEMO COMPLETE INCLUDING POLE AND POLE BASE. REMOVE EXISTING CONDUCTORS BACK TO NEAREST OUTLET TO REMAIN.

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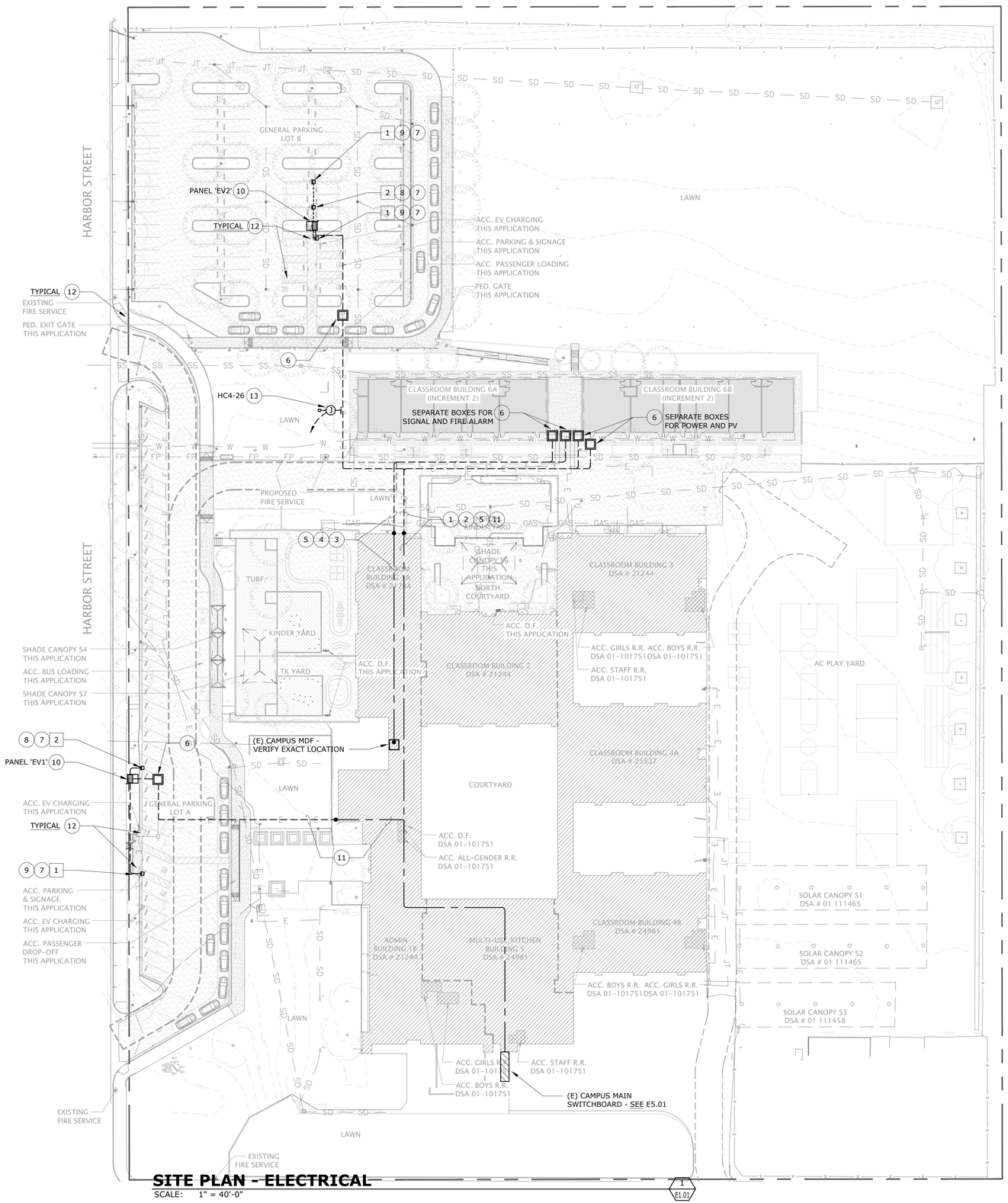
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SITE PLAN - DEMOLITION - ELECTRICAL

E1.00

Date
March 20, 2026

HIGHLANDS ES PORTABLES REPLACEMENT – 225064\CAD\INC 1



SITE PLAN - ELECTRICAL
SCALE: 1" = 40'-0"

1 E1.01

NUMBERED SHEET NOTES

1. PROVIDE (1) 2"C. AND (1) 1"C. FROM MAIN SWITCHBOARD TO (N) BUILDINGS FOR FUTURE PV SYSTEM.
2. PROVIDE (2) 5"C. FROM MAIN SWITCHBOARD TO (N) BUILDINGS FOR FUTURE POWER CONNECTION.
3. PROVIDE (2) 2"C. FROM MDF TO (N) BUILDINGS FOR FUTURE SIGNAL CONNECTIONS.
4. PROVIDE (1) 1"C. FROM MAIN FIRE ALARM PANEL (LOCATED IN MDF) TO (N) BUILDINGS FOR FUTURE FIRE ALARM CONNECTIONS.
5. ROUTE CONDUITS ON SLEEPERS ON ROOF OF BUILDING, THEN TRANSITION TO UNDERGROUND - COORDINATE EXACT ROUTING IN THE FIELD AND WITH EXISTING UTILITIES TO REMAIN.
6. PROVIDE (N) PULLBOX AS SHOWN. PULLBOXES SHALL BE IN-GRADE CHRISTY (OR EQUAL), SIZED TO ACCOMMODATE ALL CONDUIT CALLED OUT ON DRAWINGS. PULLBOX COVER SHALL BE LABELED TO INDICATE SYSTEM SERVED. WHERE LOCATED IN TRAFFIC AREAS, BOXES SHALL BE 'TRAFFIC RATED' REINFORCED CONCRETE WITH STEEL FRAME AND STEEL COVER. WHERE LOCATED ELSEWHERE, BOXES SHALL BE REINFORCED CONCRETE AND COMPOSITE COVER. ALL PULLBOX LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT.
7. PROVIDE AND INSTALL CONCRETE BASE FOR EACH CHARGER - SEE 1/E7.01.
8. PROVIDE AND INSTALL (2) 208V/1PH, 40A BRANCH CIRCUIT HOMERUNS FROM EACH DUAL-CIRCUIT CHARGING STATION TO NEAREST EV PANEL - (4)#8 & (2)#10G IN 1"C. CONNECT CIRCUITS COMPLETE TO PARKING EQUIPMENT.
9. PROVIDE AND INSTALL (1) 208V/1PH, 40A BRANCH CIRCUIT HOMERUN FROM EACH SINGLE-PORT CHARGING STATION TO NEAREST EV PANEL - (2)#8 & (1)#10G IN 1"C. CONNECT CIRCUIT COMPLETE TO PARKING EQUIPMENT.
10. NEW EV PANEL IN WEATHERPROOF NEMA 3R ENCLOSURE SERVICE PEDESTAL, WITH MAIN BREAKER AND DISTRIBUTION BREAKERS AS NEEDED TO SUPPORT EQUIPMENT SHOWN. SEE ELEVATION 2/E5.01. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
11. IN ADDITION TO CONDUITS CALLED OUT IN NOTES ABOVE, PROVIDE (N) FEEDERS FROM MAIN SWITCHBOARD TO (N) EV PANELS - SEE E5.01 FOR FEEDER SIZES, TYP. ROUTE CONDUIT EXPOSED ON SLEEPERS ON ROOF, THEN TRANSITION TO UNDERGROUND AT EDGE OF BUILDING AS SHOWN - COORDINATE EXACT ROUTE IN THE FIELD.
12. EXIT DISCHARGE PATH.
13. IRRIGATION CONTROLLER - VERIFY EXACT LOCATION WITH CIVIL PRIOR TO ROUGH-IN. PROVIDE (N) 20A/1P BREAKER IN (E) SPACE IN PANEL 'HC4' IN MDF ROOM AND CONNECT COMPLETE.

EV CHARGER LEGEND

1	PROVIDE AND INSTALL LEVEL 2 SINGLE PORT EV CHARGING STATION. THE CHARGER SHALL BE CHARGE POINT TYPE, CT4000 FAMILY, SINGLE PORT, BOLLARD MOUNT CT4011, WITH INTEGRAL GATEWAY MODEM-USA TYPE GW1, WITH SINGLE PORT 3 YEAR WARRANTY CT4010-EXW3. INPUT VOLTAGE 208VOLT, SINGLE PHASE, AMPERAGE 30AMPS PER CHARGER. CHARGER TO BE PROVIDED WITH ONE INDEPENDENT CIRCUIT. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
2	PROVIDE AND INSTALL LEVEL 2 DUAL PORT EV CHARGING STATION. THE CHARGER SHALL BE CHARGE POINT TYPE, CT4000 FAMILY, DUAL PORT, BOLLARD MOUNT CT4021, WITH INTEGRAL GATEWAY MODEM-USA TYPE GW1, WITH DUAL PORT 3 YEAR WARRANTY CT4020-EXW3. INPUT VOLTAGE 208VOLT, SINGLE PHASE, AMPERAGE 30AMPS PER CHARGER. CHARGER TO BE PROVIDED WITH TWO INDEPENDENT CIRCUITS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

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Revisions	
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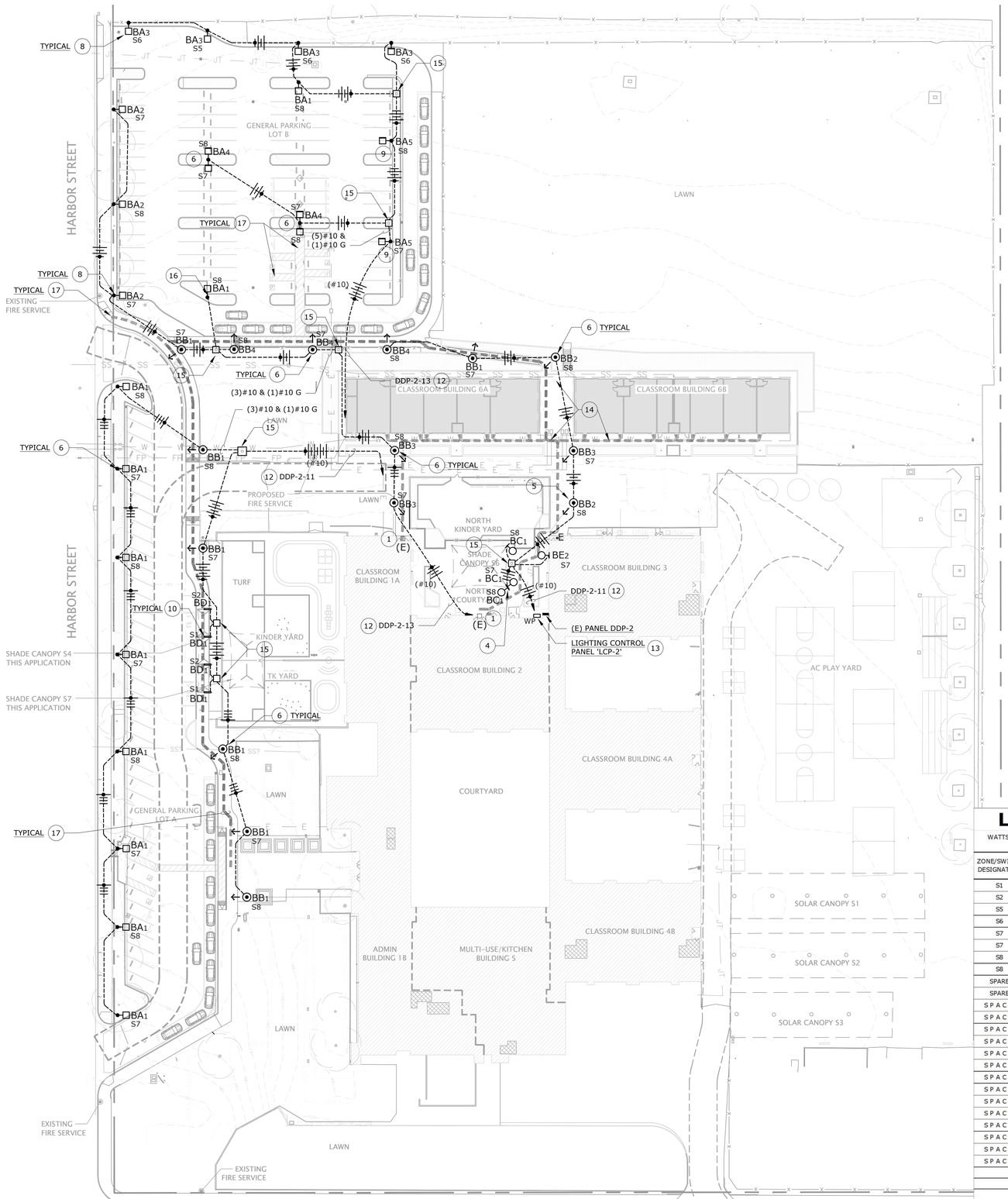
Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
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Pittsburg Unified School District

Sheet
SITE PLAN - ELECTRICAL

E1.01

Date
March 20, 2026



SITE PLAN - LIGHTING

SCALE: 1" = 40'-0"

1 / E1.02

NUMBERED SHEET NOTES

1. EXISTING LIGHTING TO REMAIN, PROTECT IN PLACE.
2. NOT USED.
3. 35° TILT FORWARD BASED ON A 8' MOUNTING HEIGHT.
4. MOUNTED TO SHADE CANOPY COLUMN. 35° TILT TOWARD EGRESS EXIT BASED ON A 8' MOUNTING HEIGHT, TILT AND AIM TO ACHIEVE A MINIMUM OF 1FC AS DRAWING INDICATES.
5. SEE DETAIL 1/E7.02.
6. SEE DETAIL 2/E7.02.
7. NOT USED.
8. SEE DETAIL 4/E7.02.
9. SEE DETAIL 5/E7.02.
10. MOUNT AT 8' A.F.G.
11. NOT USED.
12. ROUTE CIRCUIT HOME VIA LIGHTING CONTROL PANEL LCP-2 ADJACENT ELECTRICAL PANEL DDP-2. SUPPLY NEW LIGHTS FROM EXISTING SPARE CIRCUIT BREAKERS IN PANEL DDP-2.
13. WATTSTOPPER RELAY PANEL, SEE SCHEDULE ON THIS SHEET. PROVIDE AND INSTALL NEMA 3R ENCLOSURE WITH HINGED, LOCKABLE DOOR. MOUNT WATTSTOPPER RELAY CABINET INSIDE WEATHERPROOF ENCLOSURE.
14. ALL PATH OF TRAVEL AND EGRESS LIGHTING MOUNTED ON BUILDINGS IN THIS AREA TO BE EXTERIOR WALL MOUNTED, SPECIFIED BY OTHERS IN FUTURE INCREMENT.
15. FLUSH-IN-GROUND CONCRETE PULLBOX, CHRISTY N09BOX WITH N06R LID, OR EQUAL.
16. MOUNT CENTER OF POLE AT 3' AWAY FROM ALL CURBS.
17. EXIT DISCHARGE PATH.

LIGHTING CONTROL PANEL 'LCP-2'

WATTSTOPPER LMCP24-115/277-10-115, WITH LENC24S SURFACE-MOUNT ENCLOSURE. (ELECTRICAL CONTRACTOR TO PROVIDE NEMA 3R ENCLOSURE)

ZONE/SWITCH DESIGNATION	RELAY	CIRCUIT NUMBER	ROOM NAME / FIXTURE TYPE	CIRCUIT VOLTAGE	1-10V DIMMING REQUIRED
S1	1	DDP-2-11	SITE LIGHTING	120	NO
S2	2	DDP-2-11	SITE LIGHTING	120	NO
S5	3	DDP-2-13	SITE LIGHTING	120	NO
S6	4	DDP-2-13	SITE LIGHTING	120	NO
S7	5	DDP-2-11	SITE LIGHTING	120	NO
S7	6	DDP-2-13	SITE LIGHTING	120	NO
S8	7	DDP-2-11	SITE LIGHTING	120	NO
S8	8	DDP-2-13	SITE LIGHTING	120	NO
SPARE	9			120	NO
SPARE	10			120	NO
SPACE	11				
SPACE	12				
SPACE	13				
SPACE	14				
SPACE	15				
SPACE	16				
SPACE	17				
SPACE	18				
SPACE	19				
SPACE	20				
SPACE	21				
SPACE	22				
SPACE	23				
SPACE	24				
	NOTES:	PROVIDE (10) RELAYS			

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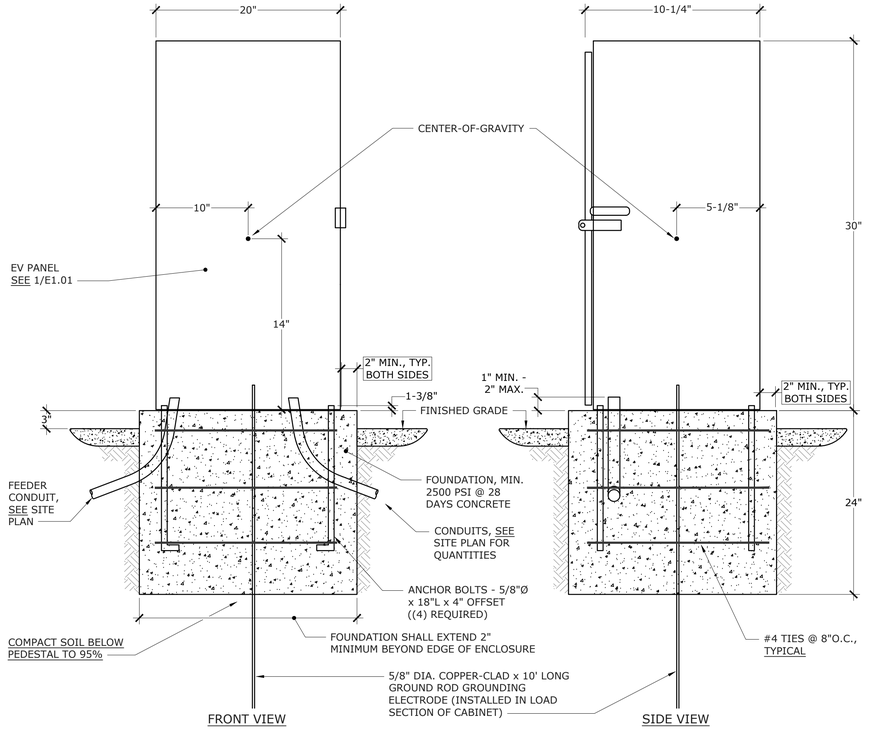
Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
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Sheet
SITE PLAN - LIGHTING

E1.02

Date
March 20, 2026



MAX WEIGHT: 400LBS.

NOTE:
1. SERVICE PEDESTAL SHALL BE TESCO TYPE #27-000UM, OR EQUAL.

EV PANEL ELEVATION (TYPICAL OF 2)
SCALE: NOT TO SCALE
2 / E5.01

NUMBERED SHEET NOTES

1. EXISTING CAMPUS MAIN SWITCHBOARD (SQUARE D) WITH EXISTING INCOMING UNDERGROUND PG&E SERVICE - USE FOR (N) FEEDS TO (N) EQUIPMENT AS SHOWN. PROTECT IN PLACE ALL EXISTING EQUIPMENT TO REMAIN.
2. NEW PEDESTAL-MOUNTED NEMA 3R PANEL WITH 200A MCB AND DISTRIBUTION BREAKERS AS NOTED ON E1.01 - SEE 2/E5.01.
3. (N) SPARE CONDUITS FOR FUTURE SYSTEMS - SEE SITE PLANS FOR EXACT QUANTITIES, SIZES, AND STUB-OUT LOCATIONS.

GENERAL NOTES

A. PER CEC 110.06 PROVIDE AND INSTALL ELECTRIC ARC FLASH WARNING SIGNS ON ALL SWITCHBOARDS, PANELBOARDS, CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROLS.

B. UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER CEC 230.8.

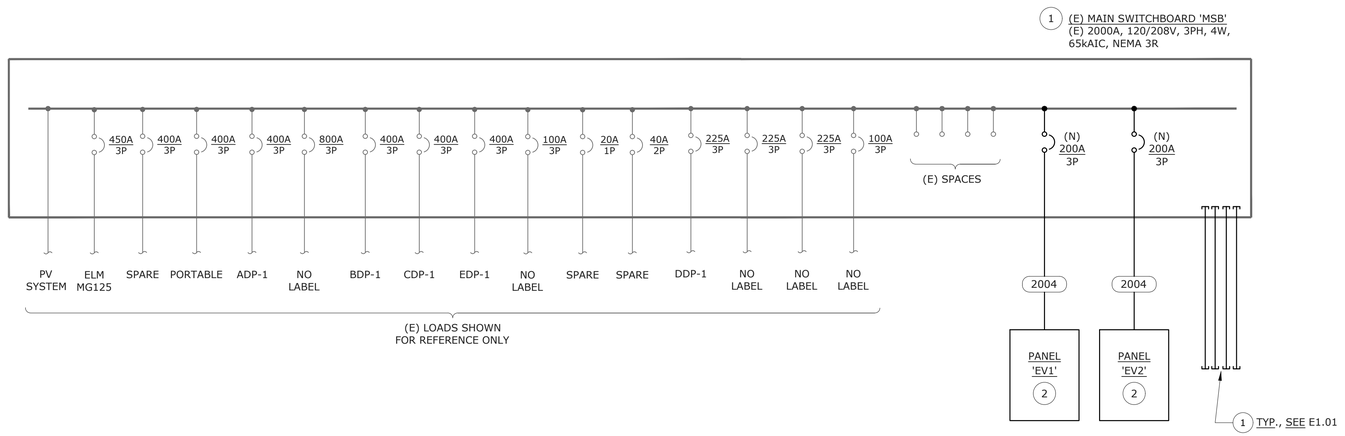
COPPER FEEDER SCHEDULE

FEEDER	CONDUIT	CONDUCTORS
2004	(1) 2"	(4)#3/0 & (1)#4 G.
1753	(1) 2"	(3)#2/0 & (1)#6 G.

FEEDER TAG KEY

400 4 N
- 400 — FEEDER AMPACITY
- 4 — WIRE QUANTITY
- N — INDICATES DOUBLE NEUTRAL

NOTE: NOT ALL FEEDERS ON THIS SCHEDULE ARE NECESSARILY USED ON THIS PROJECT.



SINGLE LINE DIAGRAM
SCALE: NONE
1 / EA5.1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

REGISTERED PROFESSIONAL ENGINEER
GRAHAM O'MAHONY
No. 18393
Exp. 6/30/26
ELECTRICAL
STATE OF CALIFORNIA

O'MAHONY & MYER
ELECTRICAL ENGINEERING and LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 491-0420/FAX (415) 479-9662
www.ommconsulting.com

Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
BACKCHECK SUBMITTAL	03/20/25

Project 2511

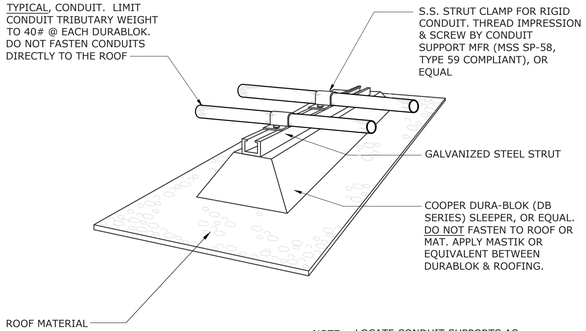
Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet
SINGLE LINE DIAGRAM - ELECTRICAL

E5.01

Date
March 20, 2026

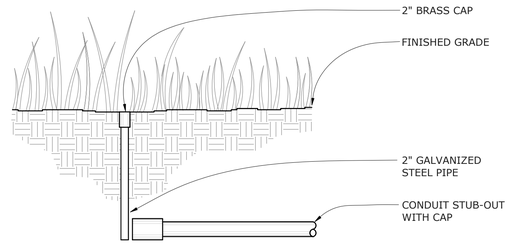


NOTE: LOCATE CONDUIT SUPPORTS AS REQUIRED BY CODE REQ'D SUPPORTS BUT NOT MORE THAN 10' -0" ON CENTER & 36" MAX. FROM TERMINATION ENDS OR CHANGE IN DIRECTION.

ROOF MOUNTED CONDUITS

SCALE: NONE
FILE: L:\DETAILS\POWER\CONDUIT\PCOND012B

5 E7.01



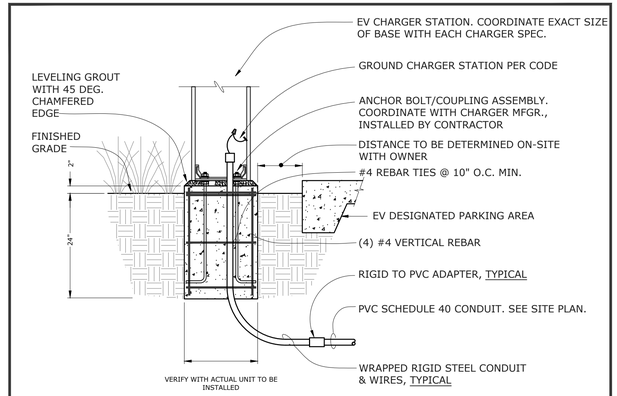
NOTES:

1. ENGRAVE BRASS CAP INDICATING FUNCTION & FINAL DESTINATION
2. RECORD ALL ACTUAL STUB-OUT LOCATIONS ON AS-BUILT DRAWINGS

CONDUIT STUB-OUT

SCALE: NOT TO SCALE
FILE: L:\DETAILS\POWER\CONDUIT\PCOND005

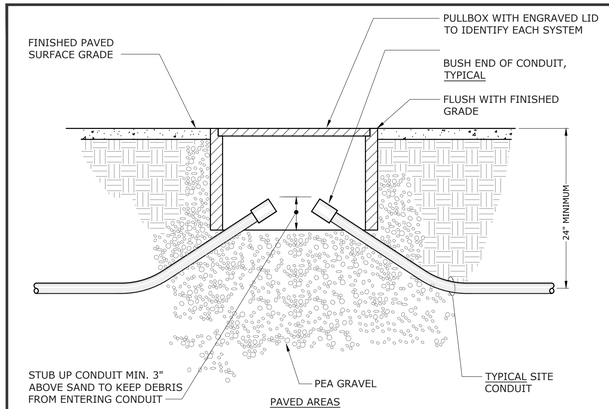
4 E7.01

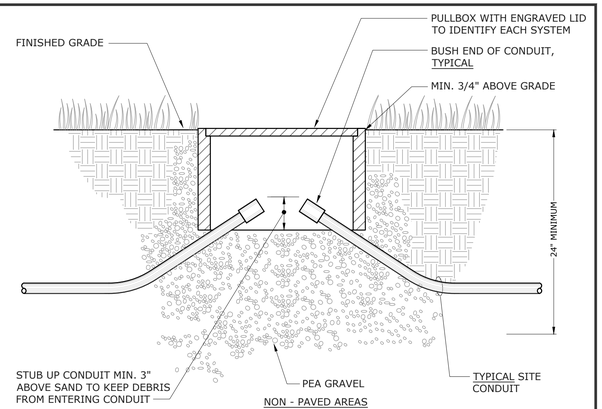


EV CHARGER STATION

SCALE: NONE
FILE:

1 E7.01

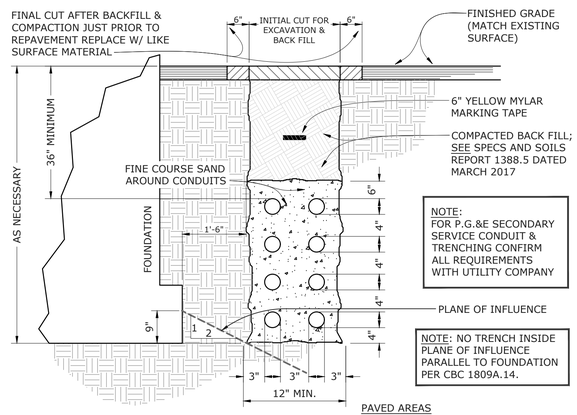


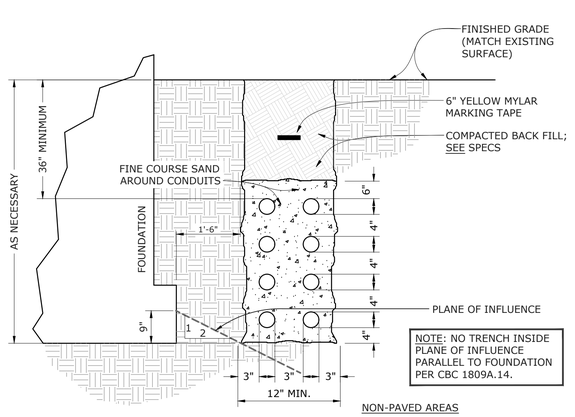


TYPICAL PULLBOX DETAILS

SCALE: NOT TO SCALE
FILE: L:\DETAILS\POWER\UG-PULLBOX\PUGP007

2 E7.01





TYPICAL TRENCH SECTIONS

SCALE: NONE
FILE: L:\POWER\TRENCH\PTREN005A (MODIFIED FOR 225064)

3 E7.01

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APP: 01-122869 INC: 01
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DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
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BACKCHECK SUBMITTAL	03/20/25

Project 2511

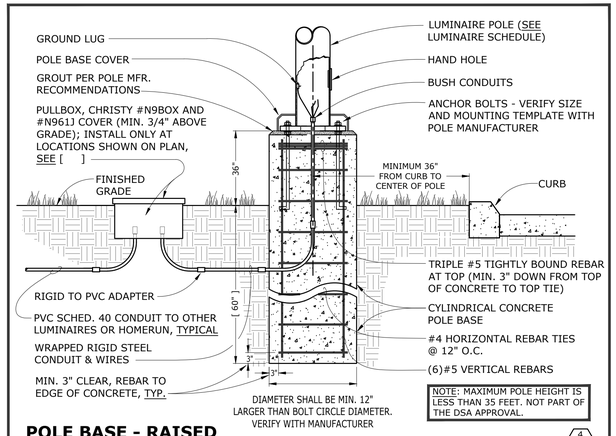
Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet
DETAILS

E7.01

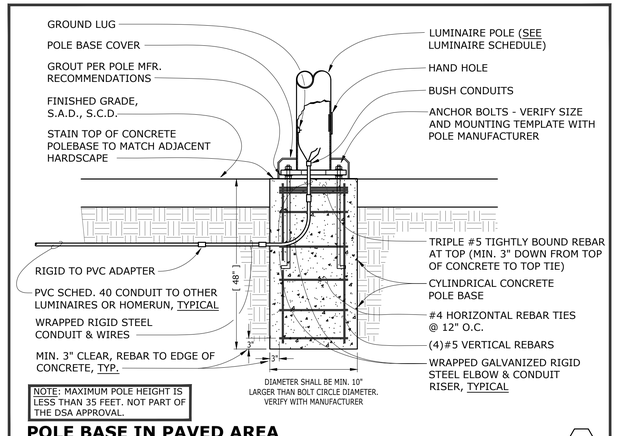
Date
March 20, 2026



POLE BASE - RAISED

SCALE: NOT TO SCALE
FILE: L:\DETAILS\LIGHT\POLEBASE\LPOLE016 (MODIFIED - 225064)

4 E7.02



POLE BASE IN PAVED AREA

SCALE: NOT TO SCALE
FILE: L:\DETAILS\LIGHT\POLEBASE\LPOLE001A

POLE BASE - RAISED

SCALE: NOT TO SCALE
FILE: L:\DETAILS\LIGHT\POLEBASE\LPOLE012

5 E7.02



POLE BASE IN PLANTERS

SCALE: NONE
FILE: L:\DETAILS\LIGHT\POLEBASE\LPOLE010A (MODIFIED FOR223096)

2 E7.02

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APP: 01-122869 INC: 01
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SS ☑ FLS ☑ ACS ☑
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BACKCHECK SUBMITTAL	03/20/25

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet
DETAILS

E7.02

Date
March 20, 2026

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Highlands ES Portables INC 1	**Report Page:** (Page 7 of 9)
	Date Prepared: 1/22/2026

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B /Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft^2)[1]	Allowed Density (W/ft^2)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Canopy	NonSalesCanopy	1409	0.3	380.4	BD1	15.2	12	182.4	182.4
							Total Design Watts for this Area:	182.4	
							Total Allowance (Watts) All Areas:		182.4

[1] *FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft^2 for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Highlands ES Portables INC 1	**Report Page:** (Page 8 of 9)
	Date Prepared: 1/22/2026

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Automotive; Pedestrian; Canopy;

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Outdoor Lighting
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Highlands ES Portables INC 1	**Report Page:** (Page 9 of 9)
Project Address: 4141 Harbor St	**Date Prepared:** 1/22/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Galway O'Mahony	Documentation Author Signature: Galway O'Mahony
Company: O'Mahony & Myer	Signature Date: 2026-01-22
Address: 4340 Redwood Hwy STE 245	CEA/AEA/ECC Certification Identification (if applicable): E18393
City/State/Zip: San Rafael CA 94903	Phone: 415-492-0420

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 applicaton.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Galway O'Mahony	Responsible Person Signature: Galway O'Mahony
Responsible Person Scope: Galway O'Mahony	
Company: O'Mahony and Myer	Date Signed: 2026-01-22
Address: 4340 Redwood Hwy Ste 245	License: E18393
City/State/Zip: San Rafael CA 94903	Phone: 415-492-0420

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Highlands ES Portables INC 1	**Report Page:** (Page 5 of 9)
	Date Prepared: 1/22/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2I, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
BC1	BC1-Surface	☐ Linear	12	Mfr. Spec	2	New	☐	24	NA: < 6200 lumens	☐	☐
BD1	BD1-Canopy	☐ Linear	15.2	Mfr. Spec	12	New	☐	182.4	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1510			

[1] *NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)/ §160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Highlands ES Portables INC 1	**Report Page:** (Page 6 of 9)
	Date Prepared: 1/22/2026

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1 / §160.5(c)	Auto-Schedule §130.2(c)2 / §160.5(c)	Motion Sensor §130.2(c)3 / §160.5(c)	Field Inspector	
				Pass	Fail
Automotive	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
Pedestrian	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
Canopy	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Highlands ES Portables INC 1	**Report Page:** (Page 6 of 9)
	Date Prepared: 1/22/2026

I. LIGHTING POWER ALLOWANCE (per §140.7 /§170.2(e))

This table includes areas using allowance calculations per §140.7 /§170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01			
	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Automotive	27491	0.021	577.3	1193	0.2	238.6	816
Pedestrian	41283	0.021	866.9	1637	0.2	327.4	1194
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		2260

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Highlands ES Portables INC 1	**Report Page:** (Page 1 of 9)
Project Address: 4141 Harbor St	**Date Prepared:** 1/22/2026

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e)6, §180.1(a) and §180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Pittsburg	04	Total Illuminated Hardscape Area (ft^2)	68774
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
● Office					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 / §170.2(e)6 or §141.0(b)2I, / § 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from §140.7 / §170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv												Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance §140.7(d)1 / §170.2(e)6 (See Table I)	+	Per Application §140.7(d)2 / §170.2(e)6 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 / §170.2(e)6 (See Table L)	+	Per Specific Area §140.7(d)2 / §170.2(e)6 (See Table M)		Existing Power Allowance §141.0(b)2L / § 180.2(b)4Bv (See Table N)		**Total Allowed** (Watts)		**Total Actual** (Watts)	**07 must be >= 08**
2,260	+	---	+	---	+	---	+	182.4	OR	---	=	2,443	≥	1,510	COMPLIES
								Shielding Compliance (See Table G for Details)							N/A
								Controls Compliance (See Table H for Details)							COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

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	Date Prepared: 1/22/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per §140.7(a) / §170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) /§160.5(c)1 [4]	Field Inspector	
										Pass	Fail
BA1	BA1-Area	☐ Linear	33	Mfr. Spec	9	New	☐	297	NA: < 6200 lumens	☐	☐
BA2	BA2-Area	☐ Linear	33	Mfr. Spec	3	New	☐	99	NA: < 6200 lumens	☐	☐
BA3	BA3-Area	☐ Linear	33	Mfr. Spec	3	New	☐	99	NA: < 6200 lumens	☐	☐
BA4	BA4-Area	☐ Linear	33	Mfr. Spec	5	New	☐	165	NA: < 6200 lumens	☐	☐
BA5	BA5-Area	☐ Linear	33	Mfr. Spec	2	New	☐	66	NA: < 6200 lumens	☐	☐
BB1	BB1-Round	☐ Linear	34	Mfr. Spec	7	New	☐	238	NA: < 6200 lumens	☐	☐
BB2	BB2-Round	☐ Linear	34	Mfr. Spec	4	New	☐	136	NA: < 6200 lumens	☐	☐
BB3	BB3-Round	☐ Linear	34	Mfr. Spec	3	New	☐	102	NA: < 6200 lumens	☐	☐
BB4	BB4-Round	☐ Linear	34	Mfr. Spec	3	New	☐	102	NA: < 6200 lumens	☐	☐

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PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

REGISTERED PROFESSIONAL ENGINEER
GALWAY O'MAHONY
No. 18393
Exp. 6/30/26
ELECTRICAL
STATE OF CALIFORNIA

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ELECTRICAL ENGINEERING and LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662
www.ommconsulting.com

Revisions

SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26
BACKCHECK SUBMITTAL	03/20/25

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 95565
Pittsburg Unified School District

Sheet

TITLE 24 DOCUMENTATION

E8.01

Date
March 20, 2026

IRRIGATION NOTES:

POINT OF CONNECTION (P.O.C).

1. CONNECT IRRIGATION MAINLINE TO MAIN WATER SUPPLY (SEE CIVIL OR ARCHITECTURAL DRAWINGS FOR LOCATION). LANDSCAPE CONTRACTOR TO VERIFY LOCATION, SIZE, FLOW AND PRESSURES AVAILABLE AND TO NOTIFY LANDSCAPE ARCHITECT OF ANY NECESSARY CHANGES NEEDED TO BE MADE SO THAT THE IRRIGATION SYSTEM PERFORMS TO AN IRRIGATION EFFICIENCY OF A MINIMUM OF 81 PERCENT.
2. SYSTEM MAXIMUM OPERATING PRESSURES. 80 PSI (AT P.O.C) INSTALL PRESSURE REDUCER IF PRESSURES EXCEED EQUIPMENT MANUFACTURERS SUGGESTED MAXIMUM OPERATING PRESSURES.

IRRIGATING AROUND EXISTING TREES.

ANY IRRIGATION (MAINLINE OR LATERALS) WITH IN DRIP LINES OF EXISTING TREES SHALL BE FIELD APPROVED BY CONSULTING ARBORIST AND OR LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING WORK COMMENCES. HAND TRENCH AND OR FOLLOW ALL ARBORISTS/LANDSCAPE ARCHITECTS RECOMMENDATIONS.

DO NOT STACK OR STORE ANY MATERIALS, EQUIPMENT OR MACHINERY UNDER DRIP LINE OF EXISTING TREES.

MWELO NOTES

CERTIFICATION OF COMPLETION REQUIREMENTS

1. UPON COMPLETION OF LANDSCAPE AND IRRIGATION INSTALLATION THE LANDSCAPE CONTRACTOR SHALL SUBMIT THE FOLLOWING AS REQUIRED BY CALIFORNIA MODEL CERTIFICATION FROM LANDSCAPE ARCHITECT FOR INSTALLATION ACCORDING TO THE APPROVED LANDSCAPE DOCUMENTATION PACKAGE.
2. SOIL MANAGEMENT REPORT AND RECEIPTS FOR SOIL IMPROVEMENT PRODUCTS.
3. LANDSCAPE MAINTENANCE MANAGEMENT REPORT.
4. IRRIGATION MAINTENANCE MANAGEMENT REPORT.
5. IRRIGATION SCHEDULE FOR NEW AND ESTABLISHED PLANT MATERIALS
6. AN IRRIGATION AUDIT REPORT INDICATING SITE IRRIGATION EFFICIENCY SHALL BE COMPLETED BY A CERTIFIED IRRIGATION AUDITOR AT THE TIME OF FINAL INSPECTION AND SUBMIT TO THE CITY OR COUNTY DEPARTMENT OF AUTHORITY
7. CERTIFICATE OF COMPLETION (COC) FORM SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS OR THE LICENESED LANDSCAPE CONTRACTOR
8. AN AS BUILT DIAGRAM OF TEH INSTALLED IRRIGATION SYSTEM SHOWING HYDROZONES AND MAINLINE LAYOUT SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.

CONTACT LOCAL ENFORCING AGENCY FOR APPROVED SUBMITTAL FORMS AND PROCEDURES.

"A LANDSCAPE IRRIGATION AUDIT IS REQUIRED. THIS AUDIT MUST BE COMPLETED BY A CERTIFIED LANDSCAPE IRRIGATION AUDITOR, NOT THE DESIGNER OR INSTALLER. THE AUDIT MUST BE SUBMITTED TO THE BUILDING DEPARTMENT, WITH A CERTIFICATE OF COMPLETION (APPENDIX C) AS REQUIRED BY THE DEPARTMENT OF WATER RESOURCES, PRIOR TO SCHEDULING A FINAL INSPECTION OF THE WATER EFFICIENT LANDSCAPE PERMIT."

LANDSCAPE IRRIGATION AUDITOR Certified

WATER EFFICIENT LANDSCAPE ORDINANCE
NOTIFICATION OF COMPLIANCE
REQUIRED OF IRRIGATION CONTRACTORS

THE IRRIGATION CONTRACTOR IS REQUIRED TO FULLY COMPLY WITH THE IRRIGATION PLANS DURING INSTALLATION OF THE IRRIGATION SYSTEM. ALL FIELD CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT/LANDSCAPE IRRIGATION AUDITOR. ANY WORK NOT INSTALLED IN STRICT CONFORMANCE WITH THE LANDSCAPE IRRIGATION AUDITORS REQUIREMENTS SHALL BE REMOVED AND REINSTALLED AT THE CONTRACTORS EXPENSE. THE CONTRACTOR AND OWNER SHALL REFER TO THE IRRIGATION NOTES SHEET FOR IRRIGATION CONTRACTOR'S WORK RESPONSIBILITIES AND THE LANDSCAPE ARCHITECT'S REQUIRED FIELD OBSERVATION SCHEDULE.

4Binc Select Certified IRRIGATION ASSOCIATION Experienced professionals. Efficient solutions. LIC# 1012730—IA CERTIFICATION # 57436

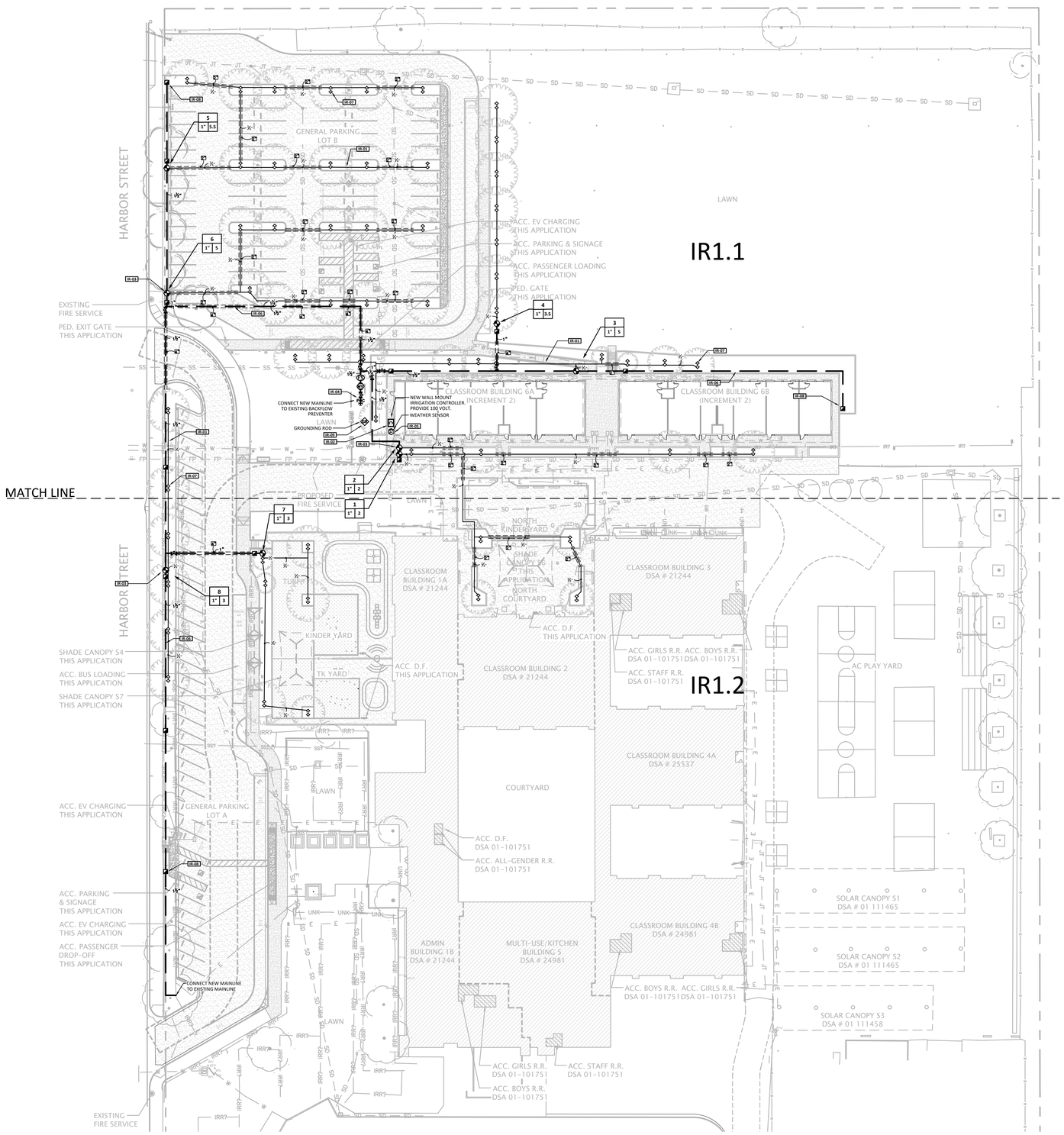
ASIC PROFESSIONAL MEMBER

811 Know what's below. Call before you dig.

"I have complied with the criteria of the Model Water Efficient Landscape Ordinance and have applied them for the efficient use of water in the Irrigation Design Plan."

DATED:01/16/2026

BY: Andrew Bolt



1 OVERALL IRRIGATION PLAN

Scale 1" - 40'-0"

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Revisions	
SCHEMATIC DESIGN	10/30/25
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DSA 01-122869 INTAKE	01/22/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
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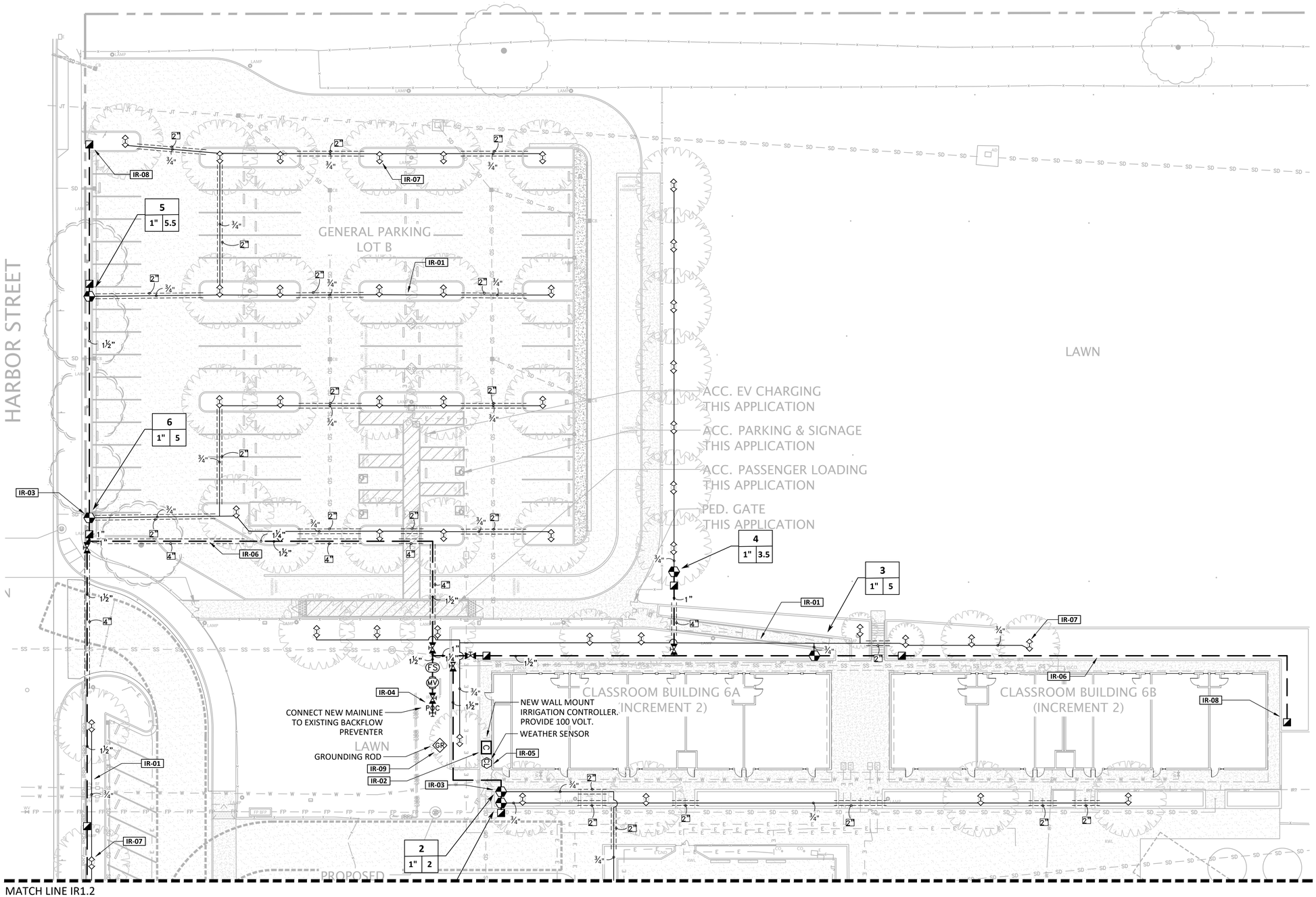
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PROPOSED SITE IRRIGATION PLAN

IR1.0

Date
March 21st, 2026

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1 IRRIGATION PLAN

Scale 1" - 20'-0"

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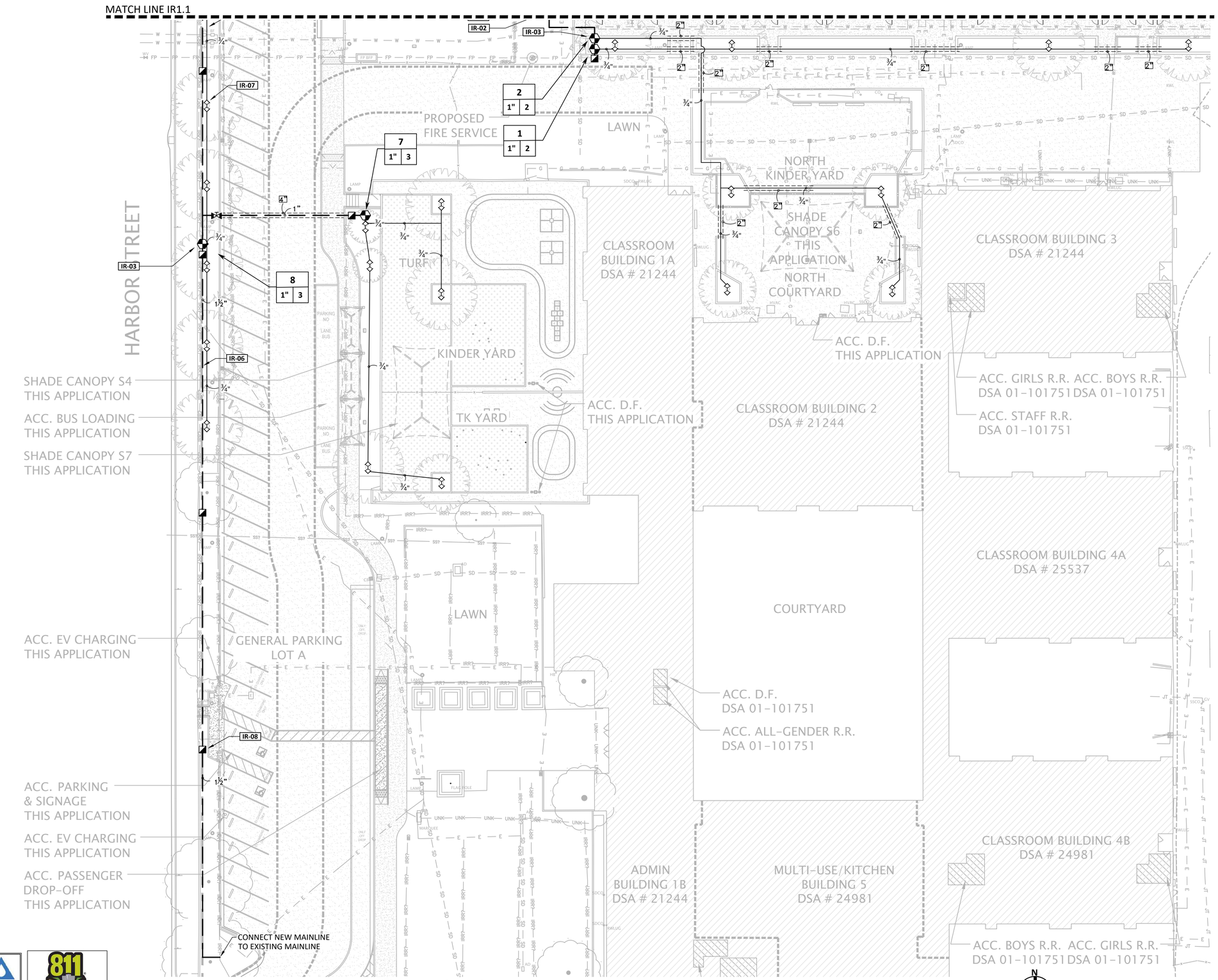
PROPOSED SITE IRRIGATION PLAN

IR1.1

Date
March 21st, 2026

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LIC# 1012730—IA CERTIFICATION # 57436
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1 IRRIGATION PLAN

Scale 1" - 20'-0"

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Highlands ES Portables Replacement Project Increment 1

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Sheet

PROPOSED SITE IRRIGATION PLAN

IR1.2

Date
March 21st, 2026

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REFERENCE NOTES

CODE	DESCRIPTION	DETAIL

IRRIGATION REFERENCE NOTES

IR-01	LATERAL LINES- ALL LATERALS ARE SIZED 3/4" UNLESS OTHERWISE NOTED.
IR-02	CONTROLLER LOCATION- INSTALL CONTROLLER ON EXTERIOR WALL AND HARDWIRE TO 110 VOLT. CONNECT CONTROLLER THROUGH WIRELESS CONNECTION TO WEATHER SENSOR
IR-03	SCHEMATIC VALVE LOCATION- INSTALL ALL VALVES IN PLANTER AREAS AND SET BACK 5 FEET FROM ANY PATHS, PATIO OR OTHER HARDSCAPE AREAS.
IR-04	POINT OF CONNECTION- CONTRACTOR TO CONFIRM POC LOCATION, SIZE OF CONNECTION, STATIC PRESSURE AND FLOWS AVAILABLE. IF LOCATION IS DIFFERENT INDICATE ON AS BUILT PLANS.
IR-05	WEATHER BASED SENSOR LOCATION- INSTALL WEATHER SENSOR ON SW SIDE OF BUIDLING WITH NO OVERHANG OBSTRUCTIONS.
IR-06	MAIN LINE- INSTALL MAIN LINE IN PLANTER AREAS WITHIN THE SITES PROPERTY BOUNDARIES AND SET BACK 2 FEET FROM ANY PATHS, ROADS OR OTHER HARDSCAPE AREAS. THE PROPOSED MAIN LINE LOCATION(S) IS DIAGRAMMATIC.
IR-07	TREE BUBBLER- FOR PROPOSED TREES
IR-08	QUICK COUPLER - INSTALL IN ROUND 9" VALVE BOX AS PER APPROVED DETAIL
IR-09	GROUNDING - GROUND CONTROLLER AND TWO WIRE PATH AS PER MANUFACTURERS RECOMMENDATIONS

CRITICAL ANALYSIS

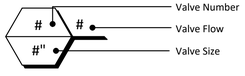
Generated:	2026-01-16 17:21
P.O.C. NUMBER: 01	
Water Source Information:	POC located for clarity only.
FLOW AVAILABLE	
Point of Connection Size:	3"
Flow Available	220.07 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Pressure Available:	65 PSI
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	30 GPM
Flow Available at POC:	220.07 GPM
Residual Flow Available:	190.07 GPM
Critical Station:	4
Design Pressure:	30 PSI
Friction Loss:	1.3 PSI
Fittings Loss:	0.13 PSI
Elevation Loss:	0 PSI
Loss through Valve:	1.71 PSI
Pressure Req. at Critical Station:	33.1 PSI
Loss for Fittings:	0 PSI
Loss for Main Line:	4.63 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Loss for Master Valve:	0.67 PSI
Critical Station Pressure at POC:	38.4 PSI
Pressure Available:	65 PSI
Residual Pressure Available:	26.6 PSI

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
25Q 50Q 50H 10H 10F 20F	HUNTER PROS-PRS30-06-MSBN MULTI-STREAMER BUBBLER, 6IN. POP-UP, 25=.25GPM, 50=0.5GPM, 10=1.0GPM, 20=2.0GPM.	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD PEB-PRS-D 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.
	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
	LEEMCO LMV-LGT-X 1IN.-4IN. STAINLESS STEEL GATE VALVE WITH CROSS TOP. SAME SIZE AS MAINLINE PIPE. INSTALL IN 9" ROUND VALVE BOX.
MV	SUPERIOR 3300 1-1/2" NORMALLY OPEN BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE, WHICH ENSURES RELIABLE OPENING AND CLOSING OF THE VALVE IN EXTREME HIGH OR LOW FLOW SCENARIOS. AVAILABLE IN 1-1/2IN., 2IN., 2-1/2IN. AND 3IN..
C	IRRITROL EGP8-S 8 STATION STAINLESS STEEL WALL MOUNT CONTROLLER. EXPANDABLE TO 48 STATIONS USING STATION MODULE EGP8-OPB STATION OUTPUT BOARDS.
CL	IRRITROL CL-100-WIRELESS WIRELESS WEATHER SENSING SYSTEM. 100-RECEIVE AND TRANSMITTER KIT. OUTDOOR SENSOR, AND RECEIVER ATTACHES TO IRRITROL CONTROLLER. COMPATIBLE WITH RAIN DIAL-R, TOTAL CONTROL-R, KD2, AND MC-E CONTROLLERS. MONITORS WEATHER DATA FOR WATERING ADJUSTMENTS AND PROVIDES RAIN-FREEZE SHUT-DOWN.
FS	FLOMEC QS200-15 1-1/2" 1-1/2IN. INSERTION FLOWMETER, SCHEDULE 80 PVC HOUSING. .55 GPM-82 GPM RANGE, MAX. OPERATING PRESSURE 150 PSI. 2-WIRE CONNECTOR W/ LED INDICATORS FOR POWER AND PULSE. STORAGE TEMPS -20 F TO +160 F.
GR	GROUNDING ROD 10 FOOT COPPER GROUNDING ROD INSTALLED IN RAIN BIRD 10" ROUND LOCKING VALVE BOX A MINIMUM OF 10 FEET FROM TWO WIRE PATH. INDICATE ALL GROUNDING ROD LOCATIONS ON AS BUILT PLAN SETS
POC	POINT OF CONNECTION 2" POC LOCATED FOR CLARITY ONLY. EXISTING BACKFLOW PREVENTER
	IRRIGATION LATERAL LINE: PVC SCH 40 INSTALL ALL LATERAL LINES A MINIMUM OF 12" DEEP
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40

Valve Callout



1 IRRIGATION LEGEND

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Project 2511

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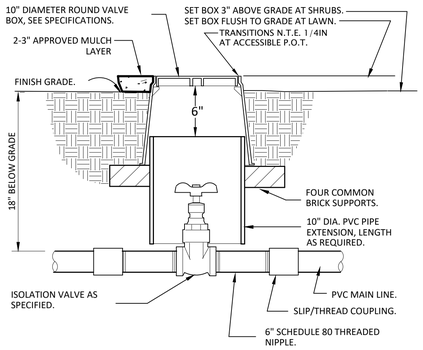
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PROPOSED SITE IRRIGATION LEGEND

IR1.3

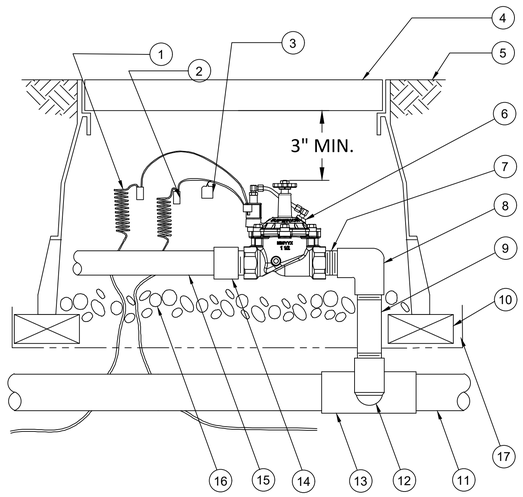
Date
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1 BRASS "T" ISOLATION VALVE

NTS 201501-01



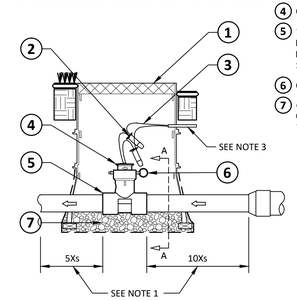
1. 30-INCH LINEAR LENGTH WIRE, COILED
2. WATERPROOF CONNECTION 3M DBYR
3. CHRISTY ID TAG
4. VALVE BOX WITH COVER
5. FINISH GRADE/TOP OF 3" MULCH LAYER
6. CONTROL VALVE: SUPERIOR 3200 SERIES VALVE
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (AS REQD LENGTH)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. WIRE MESH

2 BUCKNER SUPERIOR 3300 MASTER VALVE

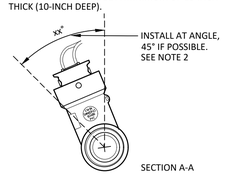
1" = 1" 2003-03

INSTALLATION NOTES:

1. 5Xs MEANS 5 TIMES PIPE'S INNER DIAMETER AND 10Xs MEANS 10 TIMES PIPE'S INNER DIAMETER.
2. FOR 1-INCH THROUGH 4-INCH PIPE INSTALLATIONS, THIS ANGLE IS ESPECIALLY IMPORTANT AND SHOULD BE SET AT 45 DEGREES FOR MOST ACCURATE QS200 OPERATION.
3. BURIED CABLE EN-ROUTE TO IRRIGATION CONTROLLER.

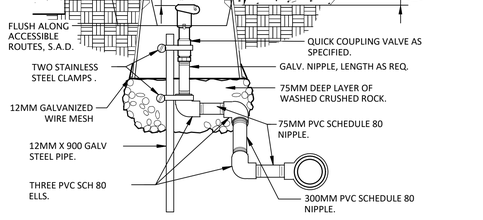


1. PLASTIC VALVE BOX TO PROVIDE ACCESS.
2. 3M DBR/Y-6 SPLICE KIT OR EQUIVALENT DIRECT BURIAL SPLICE KIT.
3. DIRECT BURIAL 1 PAIR, TWISTED SHIELDED CABLE. RECOMMENDED MINIMUM CONDUCTER SIZE 18 AWG. RATED FOR DISTANCES UP TO 2,000 FT (610 M). ENSURE A SERVICE LOOP (EXTRA WIRE LENGTH) IS PROVIDED AT THE FLOW SENSOR IN CASE MAINTENANCE IS NEEDED.
4. QS200 ULTRASONIC FLOWMETER.
5. TEE COMPATIBLE WITH QS200 (FLOWMEC QS200 TEE RECOMMENDED FOR BEST RESULTS0. SELECT TEE SIZE PER APPLICATION FLOW RATES REQ'D (SEE DATA SHEET).
6. QUICK RELEASE PIN.
7. GRAVEL - GRAVEL SHALL BE PLACED AT BOTTOM OF QS200 TEE AND SHALL BE A MINIMUM OF 10-INCH THICK (10-INCH DEEP).



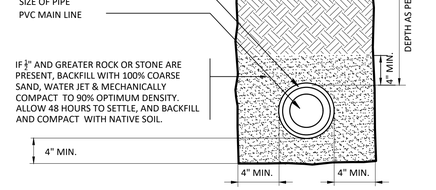
3 QS200 FLOMEC FLOWSENSOR

N.T.S. 2014-15



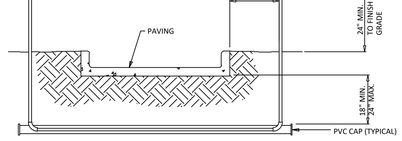
4 QUICK COUPLER DETAILS

NTS 2004-05



5 MAINLINE INSTALLATION

NTS 2006-01



1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. ALL PVC IRRIGATION SLEEVES TO BE SCH 40 PVC PIPE.
4. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
5. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24" MINIMUM ABOVE FINISH GRADE.
6. MECHANICALLY TAMP TO 95% PROCTOR.

6 SLEEVING DETAIL

NTS 2006-02

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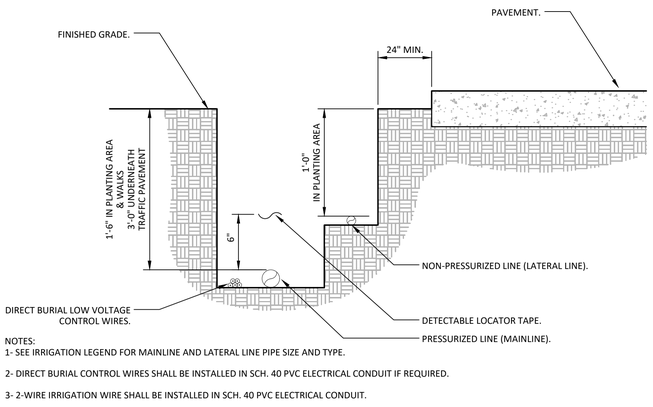
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IRRIGATION DETAILS

IR1.4

Date
March 21st, 2026

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NOTES:
1- SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.

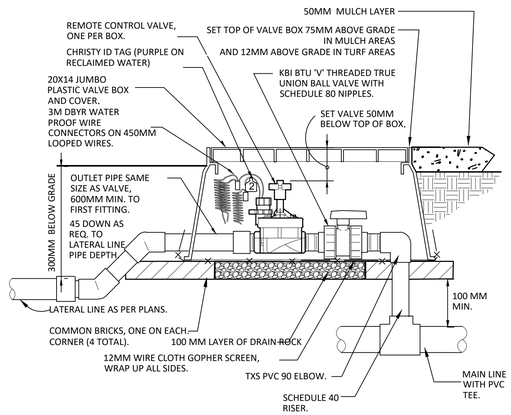
2- DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.

3- 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.

4- DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

1 IRRIGATION TRENCHING

NTS 2006-03



2 REMOTE CONTROL VALVE DETAIL

NTS 2002-02

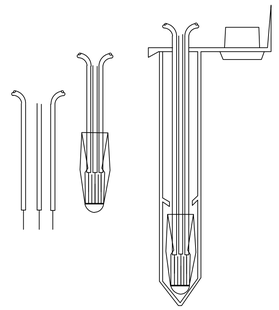
STEP 1: STRIP WIRES 12.7MM FROM ENDS.

STEP 2: APPLY SIZED WIRE NUT AND TURN CLOCKWISE DIRECTION.

STEP 3: INSERT SPLICE INTO 3M GEL FILLED CLEAR TUBE. PUSH SO THAT THE WIRE NIT MAKES CONTACT WITH END OF TUBE.

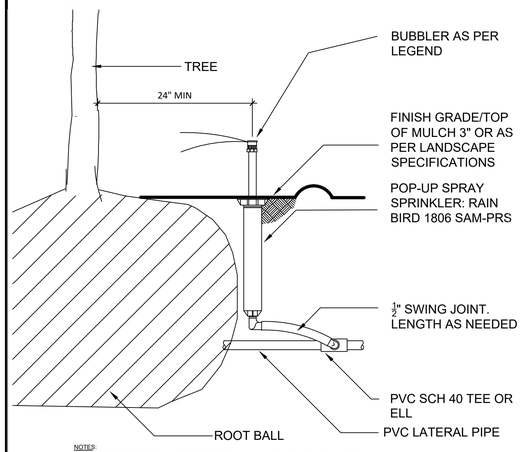
STEP 4: POSITION WIRES IN CHANNELS AND CLOSE TUBE COVER.

NOTE:MAXIMUM WIRES PER CONNECTOR ARE THREE EACH # 14's OR TWO EACH # 12's.



3 3M-DBYR CONNECTORS

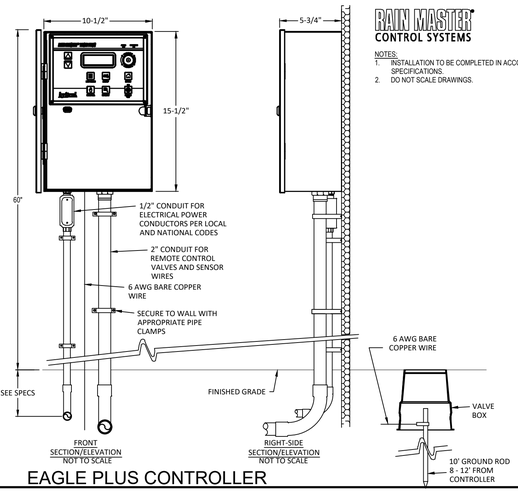
NTS 2002-01



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.

4 TREE BUBBLER ON 6" POP UP

NTS 2010-02



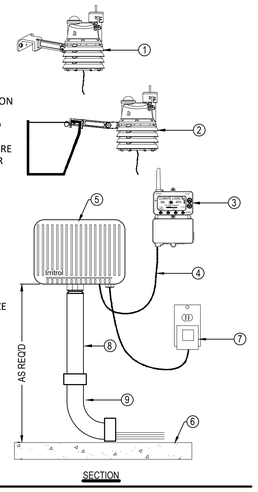
RAIN MASTER CONTROL SYSTEMS

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.

5 EAGLE PLUS CONTROLLER

NTS EXTERIOR WALL-MOUNT CONTROLLER 201304-04

LEGEND:
① CLIMATE LOGIC™ WEATHER SENSOR MOUNTED OUTDOORS ON FLAT SURFACE USING SCREWS.
② CLIMATE LOGIC™ WEATHER SENSOR MOUNTED ON A RAIN GUTTER USING QUICKCLIP™ GUTTEMOUNT.
③ CLIMATE LOGIC™ RECEIVER MODULE MOUNTED INDOORS NEAR THE COMPATIBLE CONTROLLER. MOUNT WITH SCREWS AT EYE LEVEL OR IF IN A SECURE AREA, MOUNT ON HOOK AND LOOP TYPE STRIPS FOR DISMOUNTING AND HANDHELD PROGRAMMING UTILIZING THE SLACK IN THE CORD.
④ SINGLE CONNECTION CORD PLUGGED INTO CONTROLLERS REMOTE PORT.
⑤ IRRITROL AUTOMATIC SPRINKLER CONTROLLER (INTERIOR WALL MOUNT WITH EXTERNAL TRANSFORMER).
⑥ FINISH SURFACE OF INTERIOR SPACE WHERE CONTROLLER IS LOCATED.
⑦ EXTERNAL PLUG-IN TRANSFORMER (PROVIDED WITH CONTROLLER).
⑧ PVC SCHEDULE 40 CONTROL WIRE CONDUIT (SIZE AS REQUIRED).
⑨ PVC SWEEP ELL (PROTECTING LOW VOLTAGE CONTROL WIRES TO THE ELECTRIC VALVES).



6 IRRITROL CL100

1/2" = 1'-0" 201309-03

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DATE: 04/29/2026

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Revisions	
SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

IRRIGATION DETAILS

IR1.5

Date
March 21st, 2026

File Path: C:\Users\abolt\OneDrive\Desktop\2026 Design Clients\Andrew Projects\Highland ES Portables\Irrigation DWG\P1\SD Highland ES_Irrigation Plan Set 12112025.dwg - Save Date: March 21, 2026 - Saved By: Abolt

SUBMITTALS

A. SEE THE CONTRACT GENERAL CONDITIONS FOR POLICY AND PROCEDURES RELATED TO SUBMITTALS.

B. PRODUCT DATA

1. SUBMIT A MINIMUM OF (3) COMPLETE LISTS OF ALL IRRIGATION EQUIPMENT TO BE USED, MANUFACTURER'S BROCHURES, MAINTENANCE MANUALS, WARRANTEES AND OPERATING INSTRUCTIONS, WITHIN 15 DAYS AFTER THE NOTICE TO PROCEED.

A. THIS SUBMISSION MAY BE DONE DIGITALLY AND ALL DOCUMENTS SHALL BE SUBMITTED IN ONE PDF DOCUMENT.

2. THE SUBMITTALS SHALL BE PACKAGED AND PRESENTED IN AN ORGANIZED MANNER, IN THE QUANTITY DESCRIBED IN DIVISION 1 OF THE SPECIFICATIONS. PROVIDE A TABLE OF CONTENTS OF ALL SUBMITTED ITEMS.

3. CLEARLY IDENTIFY ON EACH SUBMITTED SHEET BY UNDERLINING OR HIGHLIGHTING (ON EACH COPY) THE SPECIFIC PRODUCT BEING SUBMITTED FOR APPROVAL. FAILURE TO CLEARLY IDENTIFY THE SPECIFIC PRODUCT BEING SUBMITTED WILL RESULT IN A REJECTION FOR THE ENTIRE SUBMITTAL. NO SUBSTITUTIONS OF MATERIAL OR PROCEDURES SHALL BE MADE CONCERNING THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF AN ACCEPTED EQUIVALENT BY THE OWNER'S REPRESENTATIVE.

4. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE, MAY BE REJECTED BY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR SHALL BE REQUIRED TO REMOVE SUCH MATERIALS FROM THE SITE AT THEIR OWN EXPENSE.

AS BUILT RECORD SET OF DRAWINGS

A. IMMEDIATELY UPON THE INSTALLATION OF ANY BURIED PIPE OR EQUIPMENT, THE CONTRACTOR SHALL INDICATE ON THE PROGRESS RECORD DRAWINGS THE LOCATIONS OF SAID PIPE OR EQUIPMENT. THE PROGRESS RECORD DRAWINGS SHALL BE MADE AVAILABLE AT ANY TIME FOR REVIEW BY THE OWNER'S REPRESENTATIVE.

B. BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL PROVIDE AN AS BUILT RECORD SET OF DRAWINGS SHOWING THE IRRIGATION SYSTEM WORK AS BUILT. THE DRAWINGS SHALL BE TRANSMITTED TO THE OWNER'S REPRESENTATIVE IN PAPER FORMAT AND AS A PDF FILE OF EACH DOCUMENT ON COMPACT DISK OR FLASH DRIVE. THE DRAWINGS SHALL INCLUDE ALL INFORMATION SHOWN ON THE ORIGINAL CONTRACT DOCUMENT AND REVISED TO REFLECT ALL CHANGES IN THE WORK. THE DRAWINGS SHALL INCLUDE THE FOLLOWING ADDITIONAL INFORMATION

1. ALL VALVES SHALL BE NUMBERED BY STATION AND CORRESPONDING NUMBERS SHALL BE SHOWN ON THE AS BUILT RECORD SET OF DRAWINGS.

2. ALL MAIN LINE PIPE OR IRRIGATION EQUIPMENT INCLUDING SLEEVES, VALVES, CONTROLLERS, IRRIGATION WIRE RUNS WHICH DEVIATE FROM THE MAINLINE LOCATION, BACKFLOW PREVENTERS, REMOTE CONTROL VALVES, GROUNDING RODS, SHUT-OFF VALVES, RAIN SENSORS, WIRE SPLICE LOCATIONS, AND QUICK COUPLING VALVES SHALL BE LOCATED BY TWO (2) MEASURED DIMENSIONS, TO THE NEAREST ONE-HALF FOOT. DIMENSIONS SHALL BE GIVEN FROM PERMANENT OBJECTS SUCH AS BUILDINGS, SIDEWALKS, CURBS, WALLS, STRUCTURES AND DRIVEWAYS. ALL CHANGES IN DIRECTION AND DEPTH OF MAIN LINE PIPE SHALL BE NOTED EXACTLY AS INSTALLED. DIMENSIONS FOR PIPES SHALL BE SHOWN AT NO GREATER THAN A 50 FT. MAXIMUM INTERVAL.

3. AS BUILT RECORD SET OF DRAWINGS SHALL BE SIGNED AND DATED BY THE CONTRACTOR ATTESTING TO AND CERTIFYING THE ACCURACY OF THE AS BUILT RECORD SET OF DRAWINGS. AS BUILT RECORD SET OF DRAWINGS SHALL HAVE "AS BUILT RECORD SET OF DRAWINGS", COMPANY NAME, ADDRESS, PHONE NUMBER AND THE NAME OF THE PERSON WHO CREATED THE DRAWING AND THE CONTACT NAME (IF DIFFERENT).

C. THE OWNER SHALL MAKE THE ORIGINAL CONTRACT DRAWING FILES AVAILABLE TO THE CONTRACTOR.

CONTROLLER CHARTS:

A. PROVIDE ONE CONTROLLER CHART FOR EACH AUTOMATIC CONTROLLER INSTALLED.

1. ON THE INSIDE SURFACE OF THE COVER OF EACH AUTOMATIC CONTROLLER, PREPARE AND MOUNT A COLOR-CODED CHART SHOWING THE VALVES, MAIN LINE, AND SYSTEMS SERVICED BY THAT PARTICULAR CONTROLLER. ALL VALVES SHALL BE NUMBERED TO MATCH THE OPERATION SCHEDULE AND THE DRAWINGS. ONLY THOSE AREAS CONTROLLED BY THAT CONTROLLER SHALL BE SHOWN. THIS CHART SHALL BE A PLOT PLAN, ENTIRE OR PARTIAL, SHOWING BUILDING, WALKS, ROADS AND WALLS. THE PLAN, REDUCED AS NECESSARY AND LEGIBLE IN ALL DETAILS, SHALL BE MADE TO A SIZE THAT WILL FIT INTO THE CONTROLLER COVER. THIS PRINT SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE AND SHALL BE PROTECTED IN LAMINATED IN A PLASTIC COVER AND BE SECURED TO THE INSIDE BACK OF THE CONTROLLER CABINET DOOR.

2. THE CONTROLLER CHART SHALL BE COMPLETED AND APPROVED PRIOR TO ACCEPTANCE OF THE WORK.

GENERAL IRRIGATION NOTES

EQUIPMENT

1. ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN SHRUB OR GROUNDCOVER AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS 2" ABOVE FINISH GRADE.
2. ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN TURF AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS FLUSH WITH ADJACENT SIDEWALK OR CURB.
3. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
4. ALL SPRINKLERS SHALL BE INSTALLED WITH A 'CHECK VALVE' TO PREVENT DRAINAGE FROM SPRINKLER HEAD WHEN THE SPRINKLER IS OFF. DRAINAGE OF IRRIGATION WATER THROUGH SPRINKLER HEADS WILL NOT BE ALLOWED.
5. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM EQUIPMENT OPERATING PRESSURE OF 40 PSI AND THE MAXIMUM FLOW OF XX GPM AS SHOWN ON THE IRRIGATION DRAWINGS AT THE METER OR POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
6. 120 VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER.
7. WHERE APPLICABLE-TWO WIRE SYSTEM - ALL TWO WIRE DECODERS TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS AND GROUNDED AS PER MANUFACTURER REQUIREMENTS. CONTACT MANUFACTURER REPRESENTATIVE FOR APPROVAL OF GROUNDING AND DECODER INSTALLATION AND SIGN OFF.

a. WHERE APPLICABLE-INSTALL ADDITIONAL TWO WIRE IN EACH VALVE BOX SO THAT WIRE CAN BE PULLED OUT OF VALVE BOX (A MINIMUM OF 24") FOR SPLICE AND DECODER SERVICING.

8. ALL MASTER VALVES/FLOW SENSORS MUST BE SET UP PRIOR TO IRRIGATION CONTROLLER CERTIFICATION.
9. WHERE APPLICABLE-BOOSTER PUMP - CONTACT BARRETT ENGINEERED PUMP REPRESENTATIVE FOR PUMP START UP AND CERTIFICATION. DURING START UP TESTING PUMP MUST BE RAN AT MAXIMUM FLOW AND PRESSURES AS REPRESENTED ON THE APPROVED IRRIGATION PLANS FOR A MINIMUM OF 30 MINUTES AND MUST BE OPERATIONAL FROM THE CONTROLLER VIA PUMP START AND NOT FLOW START.
10. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
11. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER-SPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
12. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
13. INSTALL ALL DRIP FLUSH VALVES AND DRIP INDICATORS AT HIGHEST POINT IN DRIP SYSTEM TO AVOID LOW HEAD DRAINAGE.
14. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN THE DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL PVC MALE PIPE THREADS ON ALL SPRINKLER SWING JOINT AND VALVE ASSEMBLIES.
15. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB- CONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.
16. IN ADDITION TO THE CONTROL WIRE SLEEVES SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONTROL WIRE SLEEVES OF SUFFICIENT SIZE UNDER ALL OTHER PAVED AREAS.
17. CONTRACTOR SHALL PROGRAM IRRIGATION CONTROLLER TO OPERATE AS FOLLOWS POST-CONSTRUCTION: SPRAY VALVES SHALL ONLY BE TURNED ON BETWEEN THE HOURS OF 08:00 P.M. AND 6:00 A.M. BUBBLER AND DRIP VALVES CAN OPERATE AT ANY TIME.

IRRIGATION/WATERING RESPONSIBILITY

1. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR TO OPERATE THE IRRIGATION SYSTEM IN AN EFFICIENT MANNER AND TO MINIMIZE WATER WASTE. IT IS THE MAINTENANCE CONTRACTOR'S RESPONSIBILITY TO ADJUST THE SYSTEM TO APPLY WATER IN ACCORDANCE WITH PLANT REQUIREMENTS BASED ON WEATHER, SOIL, AND SITE CONDITIONS. THE IRRIGATION PROGRAM SHALL BE SCHEDULED TO MINIMIZE WATER WASTE THROUGH RUNOFF, EXCESSIVE IRRIGATION RUN TIMES, UTILIZE CYCLE SOAK SCHEDULING WHEN APPLICABLE. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR TO OPERATE THE IRRIGATION SYSTEM BASED ON LOCAL MUNICIPAL GUIDELINES.

IRRIGATION ACTIVATION

1. ACTIVATE IRRIGATION SYSTEM IN SPRING (OR WHEN WEATHER PERMITS). CHARGE MAINLINE IN FEBRUARY OR MARCH TO CHECK FOR LEAKS AND/OR MALFUNCTIONING VALVES.
2. TURN ON BACKFLOW PREVENTERS, OPEN GATE VALVES AND ACTIVATE BOOSTER PUMPS IF INSTALLED.
3. THE IRRIGATION CONTROLLER TO RUN MODE AND VERIFY THAT ALL PROGRAMS ARE ACTIVATED AND SET UP TO BE RUN IN SELF ADJUSTED MODE.
4. VERIFICATION AND ADJUSTMENTS. THIS INCLUDES TURNING ON EACH ZONE, MONITORING FOR LEAKS OR MALFUNCTIONING PARTS, CUTTING GRASS AWAY FROM SPRINKLER HEADS AND ADJUSTING SPRINKLERS FOR PROPER ARC AND MAXIMUM EFFICIENCY.
5. VERIFY THAT DRIP IRRIGATION IS FUNCTIONAL AND THAT DISTRIBUTION TUBING HAS NOT BEEN CUT OR BROKEN DURING NON OPERATIONAL PERIOD.
6. SERVICE, CLEAN AND ADJUST AND WEATHER SENSOR SYSTEM. THIS IS CRITICAL FOR ALL SELF ADJUSTING CONTROLLERS.
7. IF APPLICABLE SERVICE IRRIGATION BOOSTER PUMP, THIS NEED TO BE COMPLETED BY THE MANUFACTURERS CERTIFIED TECHNICIAN.
8. IRRIGATION MONITORING/LANDSCAPE WATERING
9. CHECK THE ET/WEATHER BASED SELF ADJUSTING SYSTEM PROGRAMMING, FLOW SENSOR AND MASTER VALVE OPERATION AND PROGRAMMING; ADJUST AS REQUIRED TO ENSURE PROPER OPERATION.
10. ALL BACKFLOW PREVENTION DEVICES ARE TO BE MAINTAINED AS PER LOCAL CITY OR COUNTY CODES.
11. ALL TURF AREAS SHALL BE MONITORED TO DETERMINE THE NEED FOR SUPPLEMENTAL IRRIGATION. FREQUENCY AND DURATION OF EACH WATERING WILL BE DEPENDENT ON LOCAL WEATHER CONDITIONS. TO DETERMINE THE NEED FOR WATERING, LANDSCAPE MAINTENANCE CONTRACTOR SHALL USE A SOIL PROBE TO EXAMINE THE FIRST 6-12" OF THE SOIL PROFILE. IF THE SOIL IS COOL, DAMP AND HOLDS ITS SHAPE, WATERING IS NOT NECESSARY. PLANT MATERIAL ROOTS SHOULD BE ENCOURAGE TO ROOT AS DEEP AS POSSIBLE, THIS IS ACCOMPLISHED BY DEEP ROOT WATERING, LONGER IRRIGATION RUN TIMES AND UTILIZING CYLCE SOAK METHOD. FREQUENT SHALLOW IRRIGATION SCHEDULING IS INEFFECTIVE AND WILL ONLY PROMOTE SHALLOW ROOTING AND REQUIRE EXCESSIVE WATER WASTE.
12. GROUNDCOVER AND SHRUB BEDS SHALL BE WATERED USING AN AUTOMATIC IRRIGATION SYSTEM. THE ENTIRE GROUNDCOVER/SHRUB BED SHALL BE SOAKED TO A DEPTH TO MAXIMIZE HEALTHY PLANT ROOT GROWTH. IRRIGATION RUN TIME TO BE BASED ON IRRIGATION DEVICE PRECIPITATION RATE (NOT FLOW RATE) AND PLANT MATERIAL IRRIGATION DEMAND. (USE WUCOLS REFERENCE FOR PLANT WATERING NEEDS). IN THE EVENT OF ESTABLISHING PLANTS, OR COMPROMISED SOIL PROFILE, WATERING FREQUENCIES MAY BE ADJUSTED.
13. ESTABLISH TIME SETTINGS AND INTERVALS OF IRRIGATION WATER APPLICATION FOR EACH VALVE OF ALL IRRIGATION ZONES. MAKE ADJUSTMENTS WHEN NECESSARY TO CORRESPOND TO VARIABLE WATERING REQUIREMENTS. CHECK FOR COVERAGE AND PLUGGED EMISSION/NOZZLE DEVICES. CLEAN DEVICES AND ADJUST DEVICES WHILE MAINTAINING THE SYSTEM IN PROPER WORKING ORDER.
14. ALL AUTOMATIC CONTROLLERS WILL BE PROGRAMMED TO APPLY WATER DURING HOURS AS PERMITTED BY LOCAL TOWN, CITY OR COUNTY ORDINANCES.

IRRIGATION SYSTEM REPAIR

1. CLEANING AND ADJUSTING THE SPRINKLERS HEADS ARE THE MAINTENANCE CONTRACTOR'S RESPONSIBILITY. REPAIR AND/OR REPLACEMENT OF ANY VANDALIZED OR MALFUNCTIONING COMPONENT BEYOND MAINTENANCE CONTRACTOR'S CONTROL IS THE RESPONSIBILITY OF THE OWNER/AGENT. ANY DAMAGE CAUSED BY MAINTENANCE CONTRACTOR WILL BE REPAIRED BY MAINTENANCE CONTRACTOR AT NO COST TO THE OWNER/AGENT.
2. ALL IRRIGATION REPAIRED OR REPLACED MUST BE IN ACCORDANCE WITH THE ORIGINAL IRRIGATION DESIGN, LOCAL CITY OR COUNTY GUIDELINES AND MUST PROVIDE THE MAXIMUM EFFICIENCY AS POSSIBLE SO AS NOT TO WASTE WATER.
3. ALL DRIP SYSTEMS ARE TO BE MANUALLY FLUSHED A MINIMUM ONE TIME PER YEAR AND FILTERS TO BE CLEANED ON A REGULAR BASIS.
4. ALL DAMAGED AND REPAIRED PIPE MUST BE FLUSHED OF ALL DEBRIS. MAINTENANCE CONTRACTOR TO GUARANTEE FULL OPERATIONAL AND EFFICIENT PERFORMANCE OF REPAIRED SYSTEMS.
5. OREPAIRS TO BACKFLOW PREVENTION DEVICES MUST BE CONDUCTED BY A TRAINED CERTIFIED BACKFLOW TECHNICIAN.
6. OIT IS RECOMMENDED THAT ALL IRRIGATION MAINTENANCE AND REPAIR BE PERFORMED BY CALIFORNIA LICENSED AND/OR CERTIFIED CONTRACTOR. NOT MAINTAINING IRRIGATION SYSTEMS IN AN EFFICIENT MANNER WILL RESULT IN PLANT AND LANDSCAPE DEGRADATION AND ADDITIONAL MAINTENANCE COSTS.
7. IRRIGATION SYSTEM WINTERIZATION
8. WHERE APPLICABLE, SHUT OFF AND DRAIN IRRIGATION SYSTEM(S) AT THE END OF THE IRRIGATION SEASON. TURN OFF ALL MAIN SUPPLY VALVES, OPEN ALL MANUAL DRAIN VALVES, AND BLEED VALVES ON BACKFLOW PREVENTION DEVICES. PERFORM WINTERIZATION PRIOR TO NOVEMBER 1ST.
9. IRRIGATION START UP
10. FLUSH ALL DRIP LINES AT FLUSH POINTS.
11. REMOVE AND CLEAN ALL FILTERS AND REPLACE ANY DAMAGED FILTERS.
12. CHECK THAT ALL WEATHERS SENSORS ARE FUNCTIONING AND REPLACE BATTERIES AS NEEDED.

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Project 2511

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IRRIGATION NOTES

IR1.6

Date
March 21st, 2026

File Path: C:\Users\aboit\OneDrive\Desktop\2026 Design Clients\Andrew Projects\Highland ES Portables\Irrigation DWG\PUSD Highland ES_ Irrigation Plan Set 12112025.dwg - Save Date: March 21, 2026 - Saved By: Aboit

- Irrigation/Watering Responsibility
  - It is the responsibility of the Maintenance Contractor to operate the irrigation system in an efficient manner and to minimize water waste. It is the Maintenance Contractor's responsibility to adjust the system to apply water in accordance with plant requirements based on weather, soil, and site conditions. The irrigation program shall be scheduled to minimize water waste through runoff, excessive irrigation run times, utilize CYCLE SOAK scheduling when applicable. It is the responsibility of the Maintenance Contractor to operate the irrigation system based on local municipal guidelines.
- Irrigation Activation
  - Activate irrigation system in spring (or when weather permits). Charge mainline in February or March to check for leaks and/or malfunctioning valves.
  - Turn on backflow preventers, open gate valves and activate booster pumps if installed.
  - Set the irrigation controller to RUN MODE and verify that all programs are activated and set up to be run in Self Adjusted mode.
  - Site verification and adjustments. This includes turning on each zone, monitoring for leaks or malfunctioning parts, cutting grass away from sprinkler heads and adjusting sprinklers for proper arc and maximum efficiency.
  - Verify that drip irrigation is functional and that distribution tubing has not been cut or broken during non operational period.
  - Service, clean and adjust and weather sensor system. This is critical for ALL self adjusting controllers.
  - If applicable service irrigation booster pump, this need to be completed by the manufacturers certified technician.
- Irrigation Monitoring/Landscape Watering
  - Check the ET/Weather Based self adjusting system programming, Flow Sensor and Master Valve operation and programming; adjust as required to ensure proper operation.
  - ALL Backflow Prevention Devices are to be maintained as per Local city or county codes.
  - All turf areas shall be monitored to determine the need for supplemental irrigation. Frequency and duration of each watering will be dependent on local weather conditions. To determine the need for watering, Landscape Maintenance Contractor shall use a soil probe to examine the first 6-12" of the soil profile. If the soil is cool, damp and holds its shape, watering is not necessary. Plant material roots should be encourage to root as deep as possible, this is accomplished by deep root watering, longer irrigation run times and utilizing CYLCE SOAK method. Frequent shallow irrigation scheduling is ineffective and will only promote shallow rooting and require excessive water waste.
  - Groundcover and shrub beds shall be watered using an automatic irrigation system. The entire groundcover/shrub bed shall be soaked to a depth to maximize healthy plant root growth. Irrigation run time to be based on irrigation device precipitation rate (not flow rate) and plant material irrigation demand. (Use WUCOLS reference for plant watering needs). In the event of establishing plants, or compromised soil profile, watering frequencies may be adjusted.
  - Establish time settings and intervals of irrigation water application for each valve of all irrigation zones. Make adjustments when necessary to correspond to variable watering requirements. Check for coverage and plugged emission/nozzle devices. Clean devices and adjust devices while maintaining the system in proper working order.
  - ALL automatic controllers will be programmed to apply water during hours as permitted by local town, city or county ordinances.
- Irrigation System Repair
  - Cleaning and adjusting the sprinklers heads are the Maintenance Contractor's responsibility. Repair and/or replacement of any vandalized or malfunctioning component beyond Maintenance Contractor's control is the responsibility of the Owner/Agent. Any damage caused by Maintenance Contractor will be repaired by Maintenance Contractor at no cost to the Owner/Agent.
  - All irrigation repaired or replaced MUST be in accordance with the original irrigation design, local city or county guidelines and must provide the maximum efficiency as possible so as NOT to waste water.
  - ALL Drip systems are to be manually flushed a minimum one time per year and filters to be cleaned on a regular basis.
  - All damaged and repaired pipe MUST be flushed of all debris. Maintenance Contractor to guarantee full operational and efficient performance of repaired systems.
  - Repairs to Backflow Prevention Devices must be conducted by a trained certified backflow technician.
  - It is recommended that ALL irrigation maintenance and repair be performed by California Licensed and/or Certified contractor. Not maintaining irrigation systems in an efficient manner will result in plant and landscape degradation and additional maintenance costs.
- Irrigation System Winterization
  - Where applicable, shut off and drain irrigation system(s) at the end of the irrigation season. Turn off all main supply valves, open all manual drain valves, and bleed valves on backflow prevention devices. Perform winterization prior to November 1st.
- Irrigation Start up
  - Flush all drip lines at flush points.
  - Remove and clean all filters and replace any damaged filters.
  - Check that all weathers sensors are functioning and replace batteries as needed.

IRRIGATION MAINTENANCE

EMITTER COUNT FOR 1" VALVE

GPM	GPH	GPH	GPM	DEVICES / 1" VALVE	FLOW GPM
0.25	15	0.5	0.01	1700	14.2
0.5	30	1	0.02	850	14.2
1	60	5	0.08	180	15.0
2	120	7	0.12	100	11.7
4	240	10	0.17	90	15.0
6	360	12	0.2	75	15.0
8	480	18	0.3	50	15.0
10	600	24	0.4	37	14.8
		30	0.5	30	15.0
		60	1	15	15.0
				1" VALVE BASED ON 15 GPM MAX	

DRIP LINE CHART

GPH	GPM	SPACING	SQUARE FOOTAGE	FLOW GPM	PRECIP RATE
0.27	0.0045	12x12	100	0.44	0.42
0.27	0.0045	12x18	100	0.29	0.28
0.27	0.0045	12x24	100	0.22	0.21
0.27	0.0045	18x18	100	0.19	0.19
0.27	0.0045	18x24	100	0.13	0.14
0.27	0.0045	24x24	100	0.11	0.1
0.4	0.066	12x12	100	0.65	0.64
0.4	0.066	12x18	100	0.43	0.43
0.4	0.066	12x24	100	0.33	0.32
0.4	0.066	18x18	100	0.29	0.29
0.4	0.066	18x24	100	0.20	0.21
0.4	0.066	24x24	100	0.16	0.16
0.6	0.01	12X12	100	0.99	0.96
0.6	0.01	12X18	100	0.66	0.64
0.6	0.01	12X24	100	0.50	0.48
0.6	0.01	18X18	100	0.44	0.43
0.6	0.01	18X24	100	0.33	0.32
0.6	0.01	24x24	100	0.25	0.24
0.9	0.015	12X12	100	1.48	1.44
0.9	0.015	12X18	100	0.99	0.96
0.9	0.015	12X24	100	0.75	0.72
0.9	0.015	18X18	100	0.66	0.64
0.9	0.015	18X24	100	0.50	0.48
0.9	0.015	24X24	100	0.38	0.36

INLINE FORMULA
PR= 231.1 x Emitter Flow /Emitter Spacing x Row Spacing

DRIP PRECIPITATION RATES

GPH	GPM	Wr	Cr	# Devices	WA	Precip Rate
1	0.017	1	1	1	3.1	0.51
2	0.033	1.5	1	1	7.1	0.45
5	0.083	2	1	1	12.6	0.64
7	0.117	2.5	1	1	19.6	0.57
10	0.167	3	1	1	28.3	0.57
12	0.2	3.5	1	1	38.5	0.50
18	0.3	4	1	1	50.2	0.58
24	0.4	4.5	1	1	63.6	0.61
30	0.5	5	1	1	78.5	0.61
60	1	7	1	1	153.9	0.63

WETTED AREA OF SOIL TYPES

SOIL TYPE	Cr (FT)	SOIL TYPE	Cr (FT)
CLAY	1.0	LOAM	0.7
CLAY LOAM	1.0	LOAMY SAND	0.4
COURSE SAND	0.2	SANDY LOAM	0.6
FINE SAND	0.3	SILT LOAM	0.9

LEGEND

Cr	Soil Coefficient
TWr	Total Wetted Area
WA	Wetted Area

BASIC INTAKE RATE

SOIL TYPE	BASIC INFILTRATION RATE
SANDY	Less than 1.5"/hr
SANDY LOAM	.75 - 1.25"/hr
LOAM	.75"/hr
CLAY LOAM	.40"/hr
CLAY	.20"/hr

TREE RINGS 12" O.C EMITTER SPACING. MIN 3 RINGS PER TREE

RADIUS	CIRCUMF	TOTAL LF	FLOW RATE	TOTAL FLOW	PRECIP RATE	TOTAL FLOW/RING COUNT
18"	3.14*DIA	9.42	0.6 GPH	5 GPH	0.96"/HR	3 RINGS@ .6 GPH = 29 GPH
30"	3.14*DIA	15.7	0.6 GPH	9 GPH	0.96"/HR	4 RINGS@ .6 GPH = 47 GPH
48"	3.14*DIA	25.12	0.6 GPH	15 GPH	0.96"/HR	
60"	3.14*DIA	31.4	0.6 GPH	18 GPH	0.96"/HR	
18"	3.14*DIA	9.42	0.9 GPH	7.5 GPH	1.44"/HR	3 RINGS@ .9 GPH = 42.5 GPH
30"	3.14*DIA	15.7	0.9 GPH	13 GPH	1.44"/HR	4 RINGS@ .9 GPH = 69.5 GPH
48"	3.14*DIA	25.12	0.9 GPH	22 GPH	1.44"/HR	
60"	3.14*DIA	31.4	0.9 GPH	27 GPH	1.44"/HR	

Formula A 96.25 x GPH / 60 /Wetted Area*Cr
Formula B 1.605 x GPH / Wetted Area *Cr

PRECIPITATION RATES & SOIL INTAKE RATES

Job Name: HIGHLAND ES PORTABLES

Date: 03/21/2026

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ETo): 49.2 — Project Type: Non Residential — 0.45
Rain Fall (Inches) — Usable Rain Fall (Inches): 0

Zone#	Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[c]	Irrigation Efficiency (IE)[d]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[e]	Gallons Per Minute GPM	% Landscape Area
	Regular Landscape Areas									
1	TREES	0.3	BUBBLERS	0.81	0.37	27164	10061	306893	0.00	87%
2	TREES	0.5	BUBBLERS	0.581	0.86	4235	3645	111174	0.00	13%
					Totals	31399	13705	418067	0.00	100%
	Special Landscape Areas									
	[redacted]				1	0	0	0		0%
					1	0	0	0		0%
					1	0	0	0		0%
					1	0	0	0		0%
					Totals	0	0	0		0.00%
							ETWU Total	418067		
							Maximum Allowed Water Allowance (MAWA)[f]	431008		100.00%

[a] Adjsutment Factor — Residential 0.55 — Non Residential 0.45
[b] Hydrozone # / Planting Description e.g.
1.) Front lawn
2.) Low water use planting
3.) Medium water use planting
[c] Irrigation Method
1.) Overhead Spray (Rotors, Spray, Precision Nozzles, Rotator Nozzles)
2.) Drip (Point Source, Bubblers, Inline)
[d] Irrigation Efficiency
1.) 0.75 for Overhead Spray
2.) 0.81 for Drip
[e] ETWU (Annual Gallons Required) =
Eto x 0.62 x ETAF x Area
Where 0.62 is a conversion factor to change acre-inches per acre per year to gallons per square foot per year
[f] MAWA (Annual Gallons Allowed) =
(Eto-EPPT)X (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]
Where 0.62 is a conversion factor to change acre-inches per acre per year to gallons per square foot per year, LA is the total regular landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential areas and 0.45 for non-residential areas

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	13705
Total Area	31399
Average ETAF	0.44

All Landscape Areas

Total ETAF x Area	13705
Total Area	31399
Average ETAF	0.44

Average ETAF for Regular landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

ETWU ACRE FEET	1.283001
MAWA ACRE FEET	1.322714
% ETWU OF MAWA	0.97
PASS:	YES

Site Adjustment Factor

Residential	0.55
Non Residential	0.45

0.81	Drip
0.81	Bubblers
0.81	Micro Spray
0.75	Spray
0.75	Rotary Nozzle
0.75	Rotor

SUMMARY HYDROZONE

HYDROZONE	AREA SQ FEET
HIGH WATER USE	
MODERATE WATER USE	4,235.00
LOW WATER USE	27,164.00
SLA	
TOTAL SF	31,399.00

MWELO CALCULATIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

PLUM | architects
870 Market St, Ste 878, San Francisco CA, 94102
TEL: 415-837-0900

Revisions

SCHEMATIC DESIGN	10/30/25
DESIGN DEVELOPMENT	11/17/25
50% CD SUBMITTAL	12/15/25
DSA 01-122869 INTAKE	01/22/26

Project 2511

Highlands ES Portables Replacement Project Increment 1

4141 Harbor Street
Pittsburg, CA 94565
Pittsburg Unified School District

Sheet

IRRIGATION WATER USE

IR1.7

Date
March 21st, 2026

File Path: C:\Users\jabolt\OneDrive\Desktop\2026 Design Clients\Andrew Projects\Highland ES Portables\Irrigation DWG\PUSD Highland ES_Irrigation Plan Set 12112025.dwg - Save Date: March 21, 2026 - Saved By: Abolt

USASHADE & Fabric Structures, Inc.

FABRIC SHADE STRUCTURE

DSA P.C. 04-123501

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
3. SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.
4. PRIOR TO SUBMITTAL ARCHITECT OF RECORD SHALL IDENTIFY PC MODEL(S) SELECTED BY END USER ON SHEETS T-1.0 AND T-2.0 BY CHECKING THE APPROPRIATE BOX ASSOCIATED WITH SELECTED PC MODEL(S). EXCLUDE SHEETS FOR MODELS NOT SELECTED.

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

1. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF THE SHADE STRUCTURE(S).
2. PROVIDE A CODE ANALYSIS, INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTIONS (V-B). INDICATE OCCUPANT LOAD FACTOR (2022 CBC, SECTION 1004).
3. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
4. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
5. INDICATE LOCATIONS OF FIRE EXTINGUISHERS WITHIN 75 FEET.
6. SHOW LOCATION OF AUDIBLE FIRE ALARM.
7. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B, & C", RESPECTIVELY, IN ASCE/SEI 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
8. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORTS REQUIREMENTS SHALL COMPLY WITH DSA IR A-4.
9. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.

FOR SNOW LOAD MODELS ONLY:

10. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20'-0" FOR SNOW LOAD MODEL (ASCE 7-16).
11. ACTUAL SITE ELEVATION (FEET) TO DETERMINE IF THE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16.

P.C. NOTES

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

LIST OF APPLICABLE CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

APPLICABLE CODES

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFFESIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SEISMIC

SELECT ONE

- ☐ DESIGN BASED ON SITE CLASS $D_{default}$
  NO GEOTECHNICAL INVESTIGATION REQUIRED
  Ss = _____ Fa = 1.2
- ☒ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
  GEOTECHNICAL INVESTIGATION PROVIDED
  SITE CLASS: ☐ C ☒ D
  Ss = 2.07 Fa = N/A PER ASCE 7-16 SUPPL 3, TABLE 11.4-1
- ☐ DESIGN BASED ON SITE CLASS SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
  SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
  CGS APPROVAL REQUIRED
  NOT ELIGIBLE FOR OTC REVIEW
  SITE CLASS: ☐ C ☐ D

S_{DS} = 2/3 Fa Ss = 1.5 ≤ 2.0

Cs = 1.6 USED IN DESIGN

SEISMIC DESIGN CATEGORY: ☒ D ☐ E

CODE ANALYSIS

OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (ft^2)

SHADE CANOPY ID & DSA NO.	AREA	OCCUPANCY	OCC. / OLF
S4 10'x60'x8' FULL CANTILEVER HIP JOINED SHADE STRUCTURE PER PC 04-123501, THIS APPLICATION, INC 1	600 S.F.	A-3	40 OCC/ 15 GROSS
S5 24'-6"x40'x8' HIP SHADE STRUCTURE PER PC 04-12350, THIS APPLICATION, INC 1	1,000 S.F.	E	50 OCC/ 20 GROSS
S6 30'x40'x8' HIP SHADE STRUCTURE PER PC 04-12350, THIS APPLICATION, INC 1	1,200 S.F.	E	60 OCC/ 20 GROSS

SITE SPECIFIC PARAMETERS

MANUFACTURER:

USA SHADE & FABRIC STRUCTURES
2580 ESTERS BOUVLEVARD, SUITE 100
DFW AIRPORT, TEXAS 75261
PH. 800-966-5005
W. www.usa-shade.com

ARCHITECT:

HIGGINSON ARCHITECTS, INC.
DAVID HIGGINSON, AIA, PRINCIPAL ARCHITECT
34247 YUCAIPA BOULEVARD, SUITE D
YUCAIPA, CALIFORNIA 92399
PH. 909-499-0058
E. dhiggInson@hIggInsonarchitects.com
W. www.hIggInsonarchitects.com

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA

8/19/24

STRUCTURAL ENGINEER:

MARK LOWE, S.E.
c/o USA SHADE AND FABRIC STRUCTURES

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT LOWE No. 3693 STRUCTURAL STATE OF CALIFORNIA

8/23/2024

ARCHITECT / ENGINEER

✓	SHEET NO.	SHEET DESCRIPTION	UNIT STRUCTURE TYPE	MAX. UNIT SIZE	UNIT MODEL NUMBER
X	T-1.0	TITLE SHEET			
X	T-2.0	UNIT SELECTION			
X	T-3.0	T&I FORMS			
	1.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 15'	DSA4012030-22
	1.2-2000	REACTIONS	HIP	20' x 30' x 15'	DSA4012030-22
	2.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 15'	DSA4013030-22
	2.2-2000	REACTIONS	HIP	30' x 30' x 15'	DSA4013030-22
	3.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 15'	DSA4013040-22
	3.2-2000	REACTIONS	HIP	30' x 40' x 15'	DSA4013040-22
	4.1-1000	PRODUCT INFORMATION	HIP	40' x 40' x 15'	DSA4014040-22
	4.2-2000	REACTIONS	HIP	40' x 40' x 15'	DSA4014040-22
	5.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 12'	DSA401203012-22
	5.2-2000	REACTIONS	HIP	20' x 30' x 12'	DSA401203012-22
	6.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 12'	DSA401303012-22
	6.2-2000	REACTIONS	HIP	30' x 30' x 12'	DSA401303012-22
X	7.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 12'	DSA401304012-22
X	7.2-2000	REACTIONS	HIP	30' x 40' x 12'	DSA401304012-22
	8.1-1000	PRODUCT INFORMATION	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	8.2-2000	REACTIONS	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	9.1-1000	PRODUCT INFORMATION	JOINED HIPS	VARIES	DSA401J-22
	9.2-1001	DETAILS	JOINED HIPS	VARIES	DSA401J-22
	9.3-2000	REACTIONS	JOINED HIPS	VARIES	DSA401J-22
	10.1-1000	PRODUCT INFORMATION	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.2-1001	DETAILS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.3-2000	REACTIONS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	11.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	11.2-2000	REACTIONS	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
X	12.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
X	12.2-2000	REACTIONS	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	13.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	13.2-2000	REACTIONS	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	14.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	14.2-2000	REACTIONS	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	15.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	15.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	16.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	16.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	17.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	17.2-2000	REACTIONS	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	18.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	18.2-2000	REACTIONS	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	19.1-1000	PRODUCT INFORMATION	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	19.2-2000	REACTIONS	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	20.1-1000	PRODUCT INFORMATION	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	20.2-2000	REACTIONS	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	21.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	21.2-2000	REACTIONS	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	22.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	22.2-2000	REACTIONS	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	23.1-1000	PRODUCT INFORMATION	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	23.2-2000	REACTIONS	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	24.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	24.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	25.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	25.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	26.1-1000	PRODUCT INFORMATION	TRIANGLE	25' x 25' x 15'	DSA30125-22
	26.2-2000	REACTIONS	TRIANGLE	25' x 25' x 15'	DSA30125-22
	27.1-1000	PRODUCT INFORMATION	TRIANGLE	40' x 40' x 15'	DSA30140-22
	27.2-2000	REACTIONS	TRIANGLE	40' x 40' x 15'	DSA30140-22
	28.1-1000	PRODUCT INFORMATION	HEXAGON	Ø40' X 15'	DSA60340-22
	28.2-2000	REACTIONS	HEXAGON	Ø40' X 15'	DSA60340-22
	29.1-1000	PRODUCT INFORMATION	HEXAGON	Ø60' X 15'	DSA60360-22
	29.2-2000	REACTIONS	HEXAGON	Ø60' X 15'	DSA60360-22

TOTAL SHEET COUNT: 63 SHEETS

SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

USASHADE & Fabric Structures®
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Pittsburg U.S.D.

PROJECT NAME:
Highlands Elementary

LOCATION:
4141 Harbor Street
Pittsburg, CA 94565

MODEL NUMBER:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	**DWH**	**8/19/23**
Design By :	**DWH**	**8/19/23**
Approved By :	**DWH**	**8/19/23**

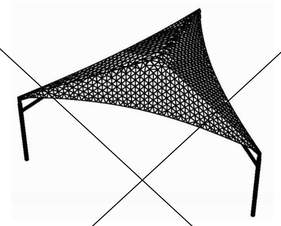
DRAWING DESCRIPTION:

DWG.
TITLE SHEET

SHEET
T-1.0

REV.

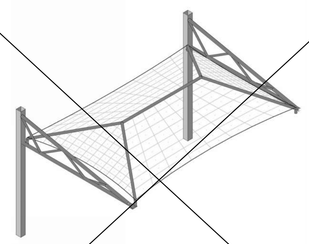
TRIANGLE



STRUCTURE MODEL:	DSA30125-22	SEE SHEET 26.1-1000
MAX. SIZE:	25' x 25' x 15'	
MAX. AREA:	277 SQ. FT.	
MAX. OCCUPANCY:	18 PERSONS	
STRUCTURE MODEL:	DSA30140-22	SEE SHEET 27.1-1000
MAX. SIZE:	40' x 40' x 15'	
MAX. AREA:	692 SQ. FT.	
MAX. OCCUPANCY:	46 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

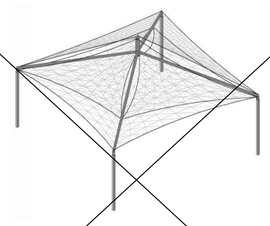
TRI-TRUSS HIP SINGLE WIDE



STRUCTURE MODEL:	DSA2062030-22	SEE SHEET 21.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

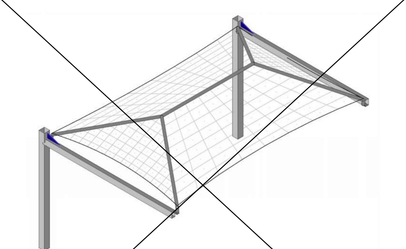
MARINER PEAK



STRUCTURE MODEL:	DSA4073030-22	SEE SHEET 17.1-1000
MAX. SIZE:	30' x 30' x 15'	
MAX. AREA:	900 SQ. FT.	
MAX. OCCUPANCY:	60 PERSONS	
STRUCTURE MODEL:	DSA4073040-22	SEE SHEET 18.1-1000
MAX. SIZE:	30' x 40' x 15'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

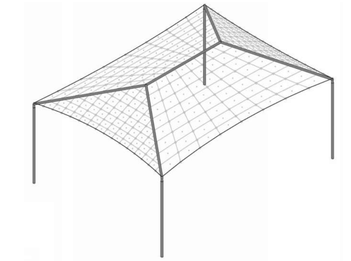
FULL CANTILEVER HIP SINGLE



STRUCTURE MODEL:	DSA2022030-22	SEE SHEET 11.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

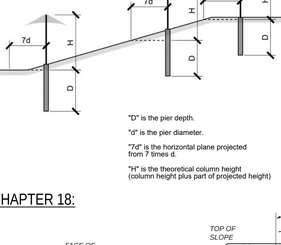
HIP



	STRUCTURE MODEL: DSA4012030-22 (MAX. SIZE: 20' x 30' x 15', MAX. AREA: 600 SQ. FT., MAX. OCCUPANCY: 40 PERSONS)	SEE SHEET 1.1-1000
	STRUCTURE MODEL: DSA4013030-22 (MAX. SIZE: 30' x 30' x 15', MAX. AREA: 900 SQ. FT., MAX. OCCUPANCY: 60 PERSONS)	SEE SHEET 2.1-1000
	STRUCTURE MODEL: DSA4013040-22 (MAX. SIZE: 30' x 40' x 15', MAX. AREA: 1,200 SQ. FT., MAX. OCCUPANCY: 80 PERSONS)	SEE SHEET 3.1-1000
	STRUCTURE MODEL: DSA4014040-22 (MAX. SIZE: 40' x 40' x 15', MAX. AREA: 1,600 SQ. FT., MAX. OCCUPANCY: 106 PERSONS)	SEE SHEET 4.1-1000
	STRUCTURE MODEL: DSA401203012-22 (MAX. SIZE: 20' x 30' x 12', MAX. AREA: 600 SQ. FT., MAX. OCCUPANCY: 40 PERSONS)	SEE SHEET 5.1-1000
	STRUCTURE MODEL: DSA401303012-22 (MAX. SIZE: 30' x 30' x 12', MAX. AREA: 900 SQ. FT., MAX. OCCUPANCY: 60 PERSONS)	SEE SHEET 6.1-1000
X	STRUCTURE MODEL: DSA401304012-22 (MAX. SIZE: 30' x 40' x 12', MAX. AREA: 1,200 SQ. FT., MAX. OCCUPANCY: 80 PERSONS)	SEE SHEET 7.1-1000
	STRUCTURE MODEL: DSA401S2030-22 (20 psf SNOW LOAD) (MAX. SIZE: 20' x 30' x 15', MAX. AREA: 600 SQ. FT., MAX. OCCUPANCY: 40 PERSONS)	SEE SHEET 8.1-1000

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

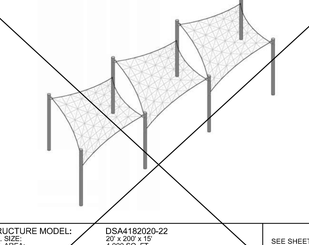
HEXAGON



STRUCTURE MODEL:	DSA60340-22	SEE SHEET 28.1-1000
MAX. SIZE:	Ø40' x 15'	
MAX. AREA:	1,040 SQ. FT.	
MAX. OCCUPANCY:	69 PERSONS	
STRUCTURE MODEL:	DSA60360-22	SEE SHEET 29.1-1000
MAX. SIZE:	Ø60' x 15'	
MAX. AREA:	2,338 SQ. FT.	
MAX. OCCUPANCY:	156 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

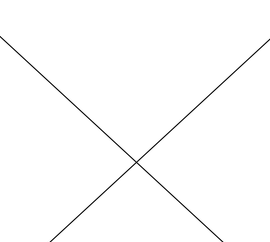
TRI-TRUSS HIP JOINED



STRUCTURE MODEL:	DSA3052060-22	SEE SHEET 22.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

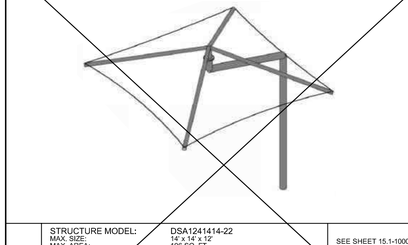
MARINER PEAK JOINED



STRUCTURE MODEL:	DSA407J3060-22	SEE SHEET 19.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

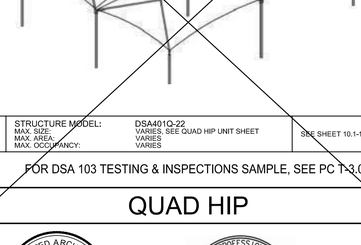
FULL CANTILEVER HIP JOINED



X	STRUCTURE MODEL:	DSA3022060-22	SEE SHEET 12.1-1000
	MAX. SIZE:	20' x 200' x 15'	
	MAX. AREA:	4,000 SQ. FT.	
	MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

JOINED HIP

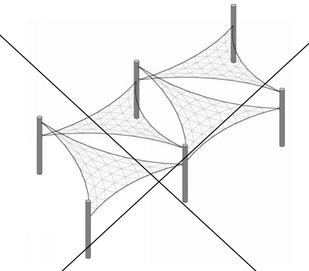


STRUCTURE MODEL:	DSA401J-22	SEE SHEET 9.1-1000
MAX. SIZE:	VARIES, SEE JOINED HIP UNIT SHEET	
MAX. AREA:	VARIES	
MAX. OCCUPANCY:	VARIES	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

NOT USED

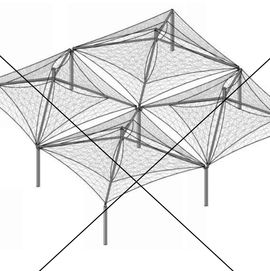
TENSIONS SAILS THREE-POINT



STRUCTURE MODEL:	DSA30730-22	SEE SHEET 23.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

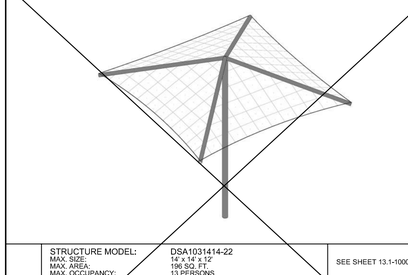
MARINER PEAK QUAD



STRUCTURE MODEL:	DSA407Q6060-22	SEE SHEET 20.1-1000
MAX. SIZE:	60' x 60' x 15'	
MAX. AREA:	3,600 SQ. FT.	
MAX. OCCUPANCY:	240 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

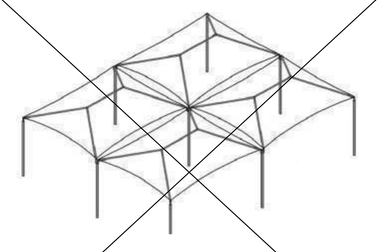
SINGLE POST PYRAMID



STRUCTURE MODEL:	DSA1031414-22	SEE SHEET 13.1-1000
MAX. SIZE:	14' x 14' x 12'	
MAX. AREA:	196 SQ. FT.	
MAX. OCCUPANCY:	13 PERSONS	
STRUCTURE MODEL:	DSA1032020-22	SEE SHEET 14.1-1000
MAX. SIZE:	20' x 20' x 12'	
MAX. AREA:	400 SQ. FT.	
MAX. OCCUPANCY:	26 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

QUAD HIP



STRUCTURE MODEL:	DSA401Q-22	SEE SHEET 10.1-1000
MAX. SIZE:	VARIES, SEE QUAD HIP UNIT SHEET	
MAX. AREA:	VARIES	
MAX. OCCUPANCY:	VARIES	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

PC SLOPE DESIGN PARAMETERS

PER IR-PC4:

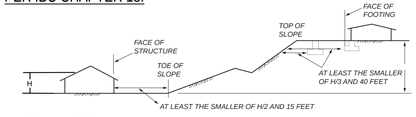
"D" is the pier depth.

"d" is the pier diameter.

"7d" is the horizontal plane projected from 7 times d.

"H" is the theoretical column height (column height plus part of projected height)

PER IBC CHAPTER 18:



H is mean roof height

TENSIONS SAILS FOUR-POINT

STRUCTURE MODEL:	DSA4182020-22	SEE SHEET 24.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	
STRUCTURE MODEL:	DSA4183030-22	SEE SHEET 25.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

NOT USED

SINGLE POST PYRAMID CANTILEVER

STRUCTURE MODEL:	DSA1241414-22	SEE SHEET 15.1-1000
MAX. SIZE:	14' x 14' x 12'	
MAX. AREA:	196 SQ. FT.	
MAX. OCCUPANCY:	13 PERSONS	
STRUCTURE MODEL:	DSA1242020-22	SEE SHEET 16.1-1000
MAX. SIZE:	20' x 20' x 12'	
MAX. AREA:	400 SQ. FT.	
MAX. OCCUPANCY:	26 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

USA SHADE & Fabric Structures®

CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428

CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Pittsburg U.S.D.

PROJECT NAME:
Highlands Elementary

LOCATION:
4141 Harbor Street
Pittsburg, CA 94565

MODEL NUMBER:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	DWH	8/19/23
Design By :	DWH	8/19/23
Approved By :	DWH	8/19/23

DRAWING DESCRIPTION:

DWG.
UNIT SELECTION

SHEET
T-2.0

REV.

LICENSED ARCHITECT
DAVID HIGGINSON
C19168
10-31-25
RENEWAL DATE
STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER
MARK ALBERT LOWE
No. 3693
STRUCTURAL
STATE OF CALIFORNIA
8/23/2024

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

General

Application Number: 04-123501
School Name: PCC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140
Increment Number:
Date Created: 2024-08-06 15:16:59

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 special inspections noted on this form are those that will be performed by the Geotechnical Engineer of 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 appendix at the bottom of this form identifies work 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, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required **Periodic –** Indicates that a periodic special inspection is required **Test –** Indicates that a test is required	**GE (Geotechnical Engineer) –** Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR (Laboratory of Record) –** Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. **PI (Project Inspector) –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI (Special Inspection) –** Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-123501
School Name: PCC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140
Increment Number:
Date Created: 2024-08-06 15:16:59

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	S1. GENERAL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** 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 must not contain loose material, mud, organic silt, organic clays, or peat.	**See Notes**	**PI**	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations and/or within the building envelope is not permitted without a geotechnical report.

	S2. SOIL COMPACTION AND FILL:	see T&I Note #7 for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Perform classification and testing of fill materials.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
☐	**b.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	**Continuous**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☐	**c.** Compaction testing.	**Test**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	S3. DRIVEN DEEP FOUNDATIONS (PILES):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify pile materials, sizes and lengths comply with the requirements.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-123501
School Name: PCC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140
Increment Number:
Date Created: 2024-08-06 15:16:59

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**b.** Determine capacities of test piles and conduct additional load tests as required.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
☐	**c.** Inspect driving operations and maintain complete and accurate records for each pile.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**d.** Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**e.** Steel piles.	Provide tests and inspections per STEEL section below.		
☐	**f.** Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	**g.** For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	see T&I Note #8 for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Note**
☑	**a.** Inspect drilling operations and maintain complete and accurate records for each pier.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Verify pier locations, diameters, plumbness and lengths.Record concrete or grout volumes.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**c.** Concrete piers.	Provide tests and inspections per CONCRETE section below.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-123501
School Name: PCC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140
Increment Number:
Date Created: 2024-08-06 15:16:59

	S5. RETAINING WALLS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Placement, compaction and inspection of backfill.	**Continuous**	**GE***	**1705A.6.1.** * By geotechnical engineer or his or her qualified representative. (See section S2 above).
☐	**b.** Placement of soil reinforcement and/or drainage devices.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.** Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
☐	**d.** Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	**e.** Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

	S6. OTHER SOILS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Soil improvements	**Test**	**GE***	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	**b.** Inspection of Soil Improvements	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.**			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-123501
School Name: PCC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140
Increment Number:
Date Created: 2024-08-06 15:16:59

	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of required design mix.	**Continuous**	**SI**	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identify, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2;** ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	**c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 Item 6**; ACI 318-19 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'c).	**Test**	**LOR**	**1905A.1.17;** ACI 318-19 Section 26.12.
☑	**e.** Batch plant inspection: **Not Required**	**See Notes**	**SI**	Default of '**Continuous**' per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to '**Periodic**' subject to requirements in Section **1705A.3.3.1.**, or not required per **1705A.3.3.2.** See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	**f.** Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

	C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Sample and test prestressing tendons and anchorages.	**Test**	**LOR**	**1705A.3.4, 1910A.3**
☐	**b.** Inspect placement of prestressing tendons.	**Periodic**	**SI**	**1705A.3.4, Table 1705A.3 Items 1 & 9.**

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-123501
School Name: PCC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140
Increment Number:
Date Created: 2024-08-06 15:16:59

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	**Periodic**	**SI**	**Table 1705A.3 Item 13.** Special inspector to verify specified concrete strength test prior to stressing.
☐	**d.** Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	**Continuous**	**SI**	**1705A.3.4, Table 1705A.3 Item 9**; ACI 318-19 Section 26.13 Appendix (end of this form) for exemptions.)

	C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect fabrication of precast concrete members.	**Continuous**	**SI**	ACI 318-19 Section 26.13, and PCI MNL-128 and -130.
☐	**b.** Inspect erection of precast concrete members.	**Periodic**	**SI***	**Table 1705A.3 Item 10.** * May be performed by PI when specifically approved by DSA.
☐	**c.** For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	**Continuous**	**SI**	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
☐	**d.** Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	**Periodic**	**SI**	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect shotcrete placement for proper application techniques.	**Continuous**	**SI**	**1705A.2.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3.** See ACI 506.2-13 Section 3.4; ACI 506R-16.
☐	**b.** Sample and test shotcrete (f'c).	**Test**	**LOR**	**1908A.2, 1705A.3.9**

	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-19 Section 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix (end of this form) for exemptions.)

	C6. OTHER CONCRETE:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. •Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c**, 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
☐	**e.** Buckling restrained braces.	**Test**	**LOR**	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS:	see Testing Matrix table for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	**Periodic**	**SI**	**Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	**b.** Test high-strength bolts, nuts and washers.	**Test**	**LOR**	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	**c.** Bearing-type ("snug tight") connections.	**Periodic**	**SI**	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9
☑	**d.** Pretensioned and slip-critical connections.	*	**SI**	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9 *"Continuous" or "Periodic" depends on the tightening method used.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	**d.** Verification of reinforcing steel weldability other than ASTM A706.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**e.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4**; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5**; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	**Periodic**	**SI**	**2213A.2**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	**d.** Inspect floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.3 DSA IR 17-3.
☐	**e.** Inspect welding of structural cold-formed steel.	**Periodic**	**SI***	**1705A.2.5; AWS D1.3; DSA IR 17-3.** The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	**f.** Inspect welding of stairs and railing systems.	**Periodic**	**SI***	**1705A.2.1**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	**g.** Verification of reinforcing steel weldability.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**h.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**c.**	**Test**	**LOR**	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	**Continuous**	**SI**	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A9. ANCHOR BOLTS AND ANCHOR RODS:	see T&I Note #9 for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Anchor Bolts and Anchor Rods	**Test**	**LOR**	Identify, sample and test anchor bolts and anchor rods **not** meeting exemptions identified in Section 1 of IR 17-11.
☑	**b.** Threaded rod not used for foundation anchorage.	**Test**	**LOR**	Identify, sample and test threaded rods **not** meeting exemptions identified in Section 1 of IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	**Periodic**	**SI**	Table 1705A.13.7
☐	**b.** Fabricated storage rack elements.	**Periodic**	**SI**	1704A.2.5; Table 1705A.13.7

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A11. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

GENERAL DSA-103 NOTES:

1. THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
2. A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

TESTING AND INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. THE SITE PROJECT INSPECTOR SHALL BE CLASS 2. IF THE TOTAL AREA OF THE SHADE STRUCTURE(S) IS LESS THAN 2,000 SQ. FT. WITH NO FIELD WELDING OR HIGH-STRENGTH FASTENERS THEN THE SITE PROJECT INSPECTOR MAY BE A CLASS 3.
3. THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
4. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
5. THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
6. PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
   - 6.1. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   - 6.2. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, IT'S LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.
7. INCLUDE SECTION S2 - SOIL COMPACTION AND FILL WHEN OVER-EX AND RE-COMPACTING OCCURS.
8. S4 - CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): NOT REQUIRED IF SPREAD FOOTING OPTION IS CHOSEN.
9. S/A9 - ANCHOR BOLT AND ANCHOR ROD: NOT REQUIRED IF EMBEDDED BASE PLATE OPTION IS CHOSEN.

HIGH-STRENGTH BOLTS (S/A2) SPECIAL INSPECTIONS TESTING MATRIX FOR SPECIFIC MODELS

✓	MODEL	SHEET	HIGH STRENGTH BOLTS	PRETENSIONED / SLIP-CRITICAL CONNECTIONS
	DSA2022030-22	11,1-1000	YES	-
X	DSA3022060-22	12,1-1000	YES	-
	DSA1031414-22	13,1-1000	YES	YES
	DSA1032020-22	14,1-1000	YES	YES
	DSA1241414-22	15,1-1000	YES	YES
	DSA1242020-22	16,1-1000	YES	YES
	DSA2062030-22	21,1-1000	YES	-
	DSA3052060-22	22,1-1000	YES	-

DSA 103 (SAMPLE) - STATEMENT OF STRUCTURAL TESTS AND INSPECTIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

GENERAL NOTES

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2022(CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500 GRADE C, IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE GRADE C 50,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
ROUND PIPE 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 2, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CW1. REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).

12.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

13.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

14.- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, 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.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE Fy= 60000 PSI , MIN. GR. 60.

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329).
ANCHOR BOLT'S DIAMETER NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø 1 1/4"

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6.- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=4909 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

CBC PC DESIGN NOTES

BUILDING CODE	CBC 2022 (BASED ON IBC 2021)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	RLL 5 PSF

ALLOWABLE SOIL PRESSURE:

DL + LL (CONC FTG)	1500 PSF
DL + LL + SEISMIC (CONC FTG)	1500 PSF
LATERAL BEARING DESIGN VALUE	100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD	5 PSF
ICE LOAD	ZERO PSF
FLOOD HAZARD AREA	ZONE X

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION

-BASIC DESIGN WIND SPEED (3 SEC GUST)	V	115 MPH
-ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4)	V_{ASD}	90 MPH
-WIND EXPOSURE FACTOR	C	
-TOPOGRAPHIC FACTOR	Kzt	1
-RISK CATEGORY	II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.85
-VELOCITY PRESSURE	qz	24.46 PSF

SEISMIC DESIGN:

-SITE CLASS		D
NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.		
	SS	3.00g
	S1	1.389g
-SPECTRAL RESPONSE COEFFICIENTS	SDS	2.00
	SD1	1.39
-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.		
-SEISMIC IMPORTANCE FACTOR	Ie	1.0
-DESIGN BASE SHEAR AT BASE	V	3072 LB
-SEISMIC RESPONSE COEFFICIENTS	Cs	1.6
-RESPONSE MODIFICATION FACTOR	R	1.25
-ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE
-RISK CATEGORY		II
-SEISMIC DESIGN CATEGORY		E
-SITE COEFFICIENT CATEGORY	Fa	1.2
	Fv	1.5
-REDUNDANCY FACTOR	ρ	1.3

GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

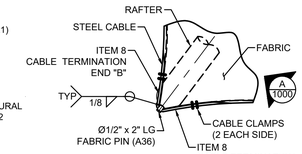
ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

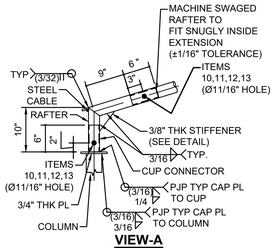
MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 14 FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)

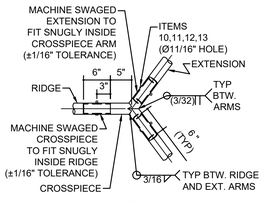
-K-12:	250 PERSONS
-PUBLIC ASSEMBLY:	300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE:	500 PERSONS



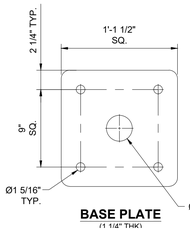
DETAIL 1
REFER TO TOP VIEW



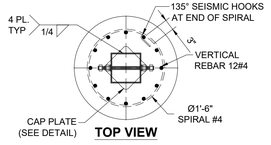
VIEW-A
REFER TO DETAIL-1



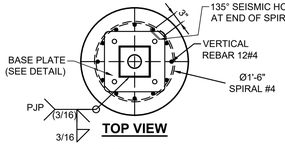
DETAIL-2
REFER TO TOP VIEW



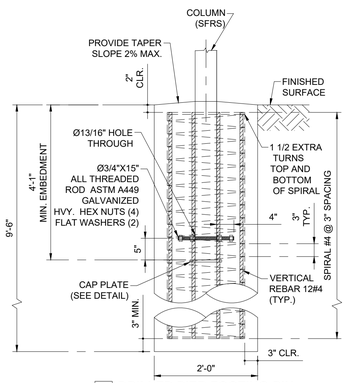
BASE PLATE
(1 1/4" THK)



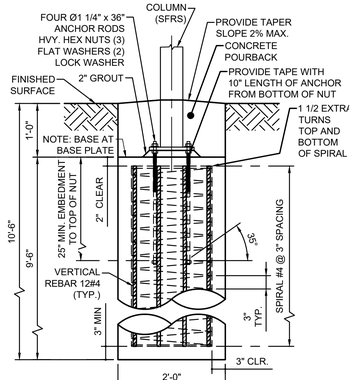
TOP VIEW



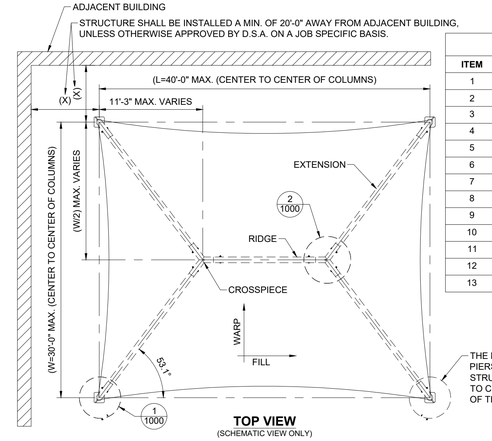
TOP VIEW



DRILLED PIER FOOTING-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)



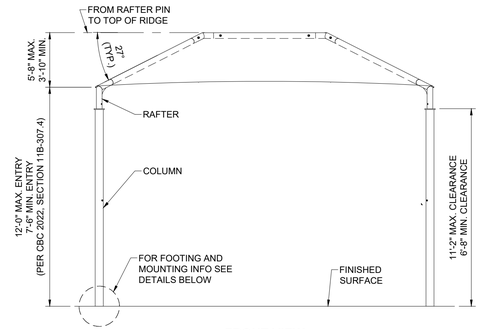
DRILLED PIER FOOTING-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)



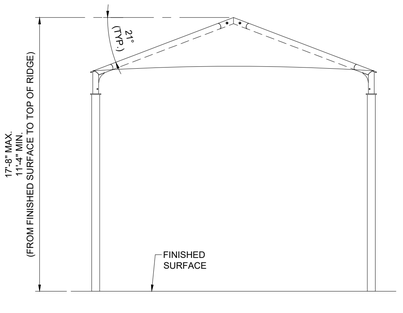
TOP VIEW
(SCHEMATIC VIEW ONLY)

LIST OF MATERIALS

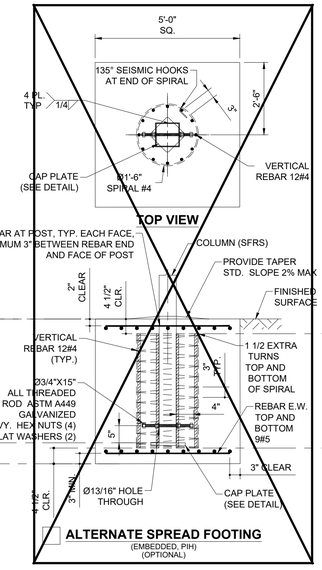
ITEM	QTY	DESCRIPTION	MATERIAL
1	4	COLUMN	HSS 7.0 x 7.0 x 0.250
2	4	CUP CONNECTOR (6" LG)	HSS 4.5 x 0.375
3	4	RAFTER (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (HSS 5.0 x 0.188)
4	4	EXTENSION (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (HSS 5.0 x 0.188)
5	2	CROSSPIECE (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (HSS 5.0 x 0.188)
6	1	RIDGE (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (HSS 5.0 x 0.188)
7	1	FABRIC TOP	FR COLOURSHADE 190/F5
8	1	Ø3/8" CABLE	GALVANIZED STEEL
9	4	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
10	14	Ø5/8"-11NC x 6 1/2" HEX BOLT (ST)	316 SS
11	14	Ø5/8"-11NC HEX NUT	316 SS
12	28	Ø5/8" FLAT WASHER	316 SS
13	14	Ø5/8" SPLIT LOCK WASHER	316 SS



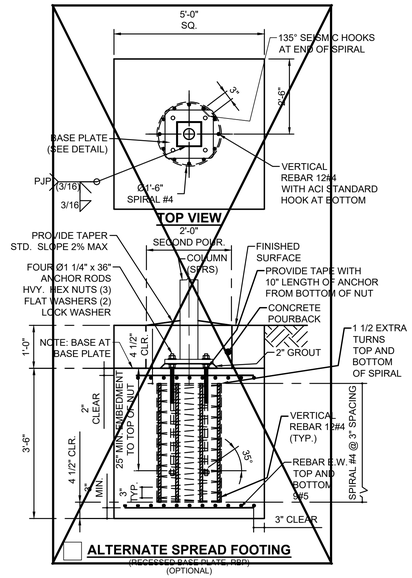
FRONT VIEW
(SCHEMATIC VIEW ONLY)



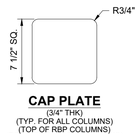
SIDE VIEW
(SCHEMATIC VIEW ONLY)



ALTERNATE SPREAD FOOTING
(EMBEDDED, PIH)
(OPTIONAL)



ALTERNATE SPREAD FOOTING
(RECESSED BASE PLATE, RBP)
(OPTIONAL)



CAP PLATE
(3/4" THK)
(TYP. FOR ALL COLUMNS)
(TOP OF RBP COLUMNS)
(TOP & BOT. OF PIH COLUMNS)
(A572 GR. 50)

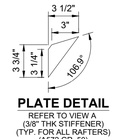


PLATE DETAIL
REFER TO VIEW A
(3/8" THK STIFFENER)
(TYP. FOR ALL RAFTERS)
(A572 GR. 50)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Pittsburg U.S.D.

PROJECT NAME:
Highlands Elementary

LOCATION:
4141 Harbor Street
Pittsburg, CA 94565

MODEL NUMBER:
DSA401304012-22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:
HIP
DSA

SIZE: MAXIMUM
30' x 40' x 12'e MAX.

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG.
DSA401304012-22

SHEET
7.1-1000

REV.
NC

LICENSED ARCHITECT
DAVID HIGGINSON
C19168
10-31-25
RENEWAL DATE
STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER
MARK BERGEVE
No. 3693
STRUCTURAL
STATE OF CALIFORNIA
6/28/2024

Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.



7 x 19

7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400

Multiknit INTERNATIONAL

190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85		185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	86	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
				110 LB		159 LB		3258 PSF	

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

Notes:
- 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested. Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

PP
Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd

CAL FIRE SINCE 1885

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:

MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA, ,

Issue Date : 05/08/2023
Expiration Date : 06/30/2024

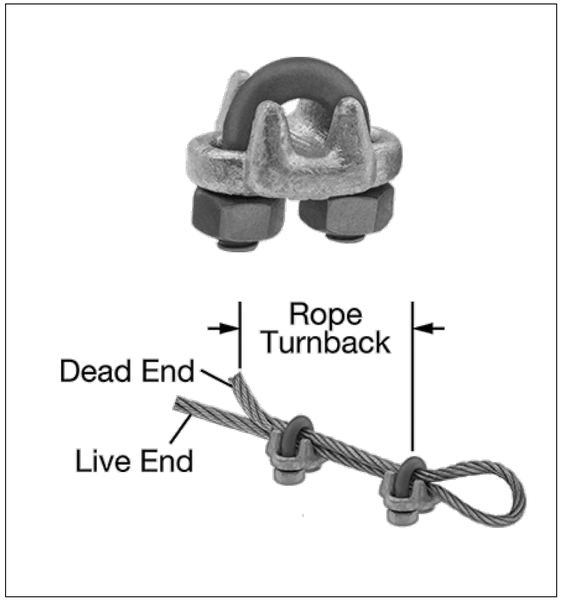
This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

CWalker
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE



FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 × 19
ATTACHMENT TYPE: LOOP
CLAMP:WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"
REQUIRED INSTALLATION TOOL TORQUE WRENCH
REQUIRED TORQUE 45 FT.-LBS.
CAPACITY 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT CLARK No. 3693 STRUCTURAL STATE OF CALIFORNIA
6/28/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

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CUSTOMER:
Pittsburg U.S.D.

PROJECT NAME:
Highlands Elementary

LOCATION:
4141 Harbor Street
Pittsburg, CA 94565

MODEL NUMBER:
DSA401304012-22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:
H I P
DSA

SIZE: MAXIMUM
30' x 40' x 12'e MAX.

SCALE : NONE

DRAWING SIZE: **D**

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
SPECIFICATIONS

DWG. **DSA401304012-22**

SHEET **7.2-2000**

REV. **NC**

GENERAL NOTES

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500 GRADE C, IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE GRADE C 50,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
ROUND PIPE 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 2, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CW1, REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS, ITEM 11, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST)..

12.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM F3125 GRADE A325 N (GALVANIZED). ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436. HIGH STRENGTH BOLTS, ITEM 15, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST) WITH DOUBLE NUTS. ALL NUTS SHALL BE LUBRICATED WITH A LUBRICANT CONTAINING A VISIBLE DYE SO A VISUAL CHECK CAN BE MADE FOR THE LUBRICANT AT THE TIME OF THE FIELD INSTALLATION. WASHERS SHALL BE GALVANIZED PER ASTM F2329.

13.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

14.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

15.- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, 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.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE Fy= 60000 PSI , MIN. GR. 60.

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329).
ANCHOR BOLT'S DIAMETER NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4"

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6.- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD, WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=4909 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)

-K-12:	250 PERSONS
-PUBLIC ASSEMBLY:	300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE:	500 PERSONS

CBC PC DESIGN NOTES

BUILDING CODE	CBC 2022 (BASED ON IBC 2021)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	RLL 5 PSF

ALLOWABLE SOIL PRESSURE:

DL + LL (CONC FTG)	1500 PSF
DL + LL + SEISMIC (CONC FTG)	1500 PSF
LATERAL BEARING DESIGN VALUE	100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD	5 PSF
ICE LOAD	ZERO PSF
FLOOD HAZARD AREA	ZONE X

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION

-BASIC DESIGN WIND SPEED (3 SEC GUST)	V	115 MPH
-ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4)	V_{ASD}	90 MPH
-WIND EXPOSURE FACTOR	C	
-TOPOGRAPHIC FACTOR	Kzt	1
-RISK CATEGORY	II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.88
-VELOCITY PRESSURE	qz	25.32 PSF

SEISMIC DESIGN:

-SITE CLASS		D
-SPECTRAL RESPONSE COEFFICIENTS	SS	3.00g
	S1	1.389g
	SDS	2.00
	SD1	1.39

NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

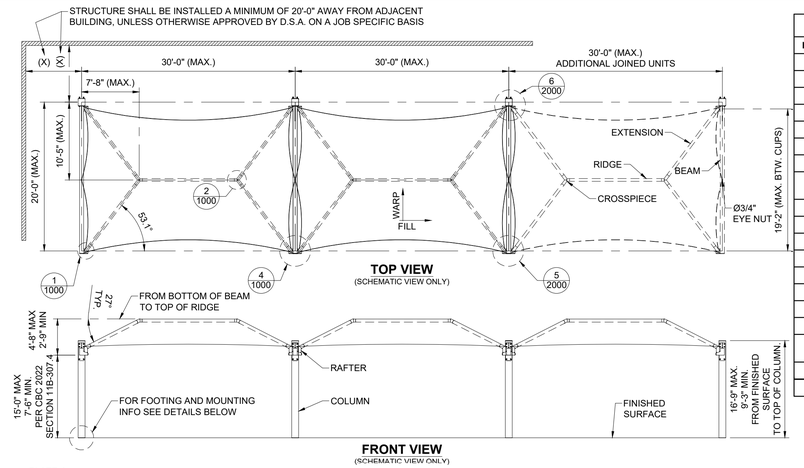
-SEISMIC IMPORTANCE FACTOR	Ie	1.0
-DESIGN BASE SHEAR AT BASE	V	25358 LB
-SEISMIC RESPONSE COEFFICIENTS	Cs	1.6
-RESPONSE MODIFICATION FACTOR	R	1.25
-ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE
-RISK CATEGORY		II
-SEISMIC DESIGN CATEGORY		E
-SITE COEFFICIENT CATEGORY	Fa	1.2
	Fv	1.5
-REDUNDANCY FACTOR	ρ	1.3

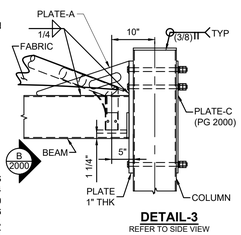
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

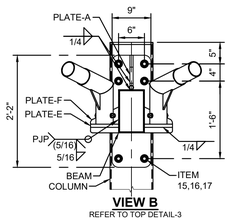
ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

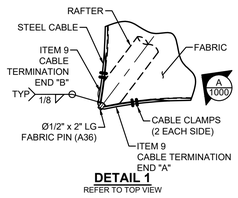
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

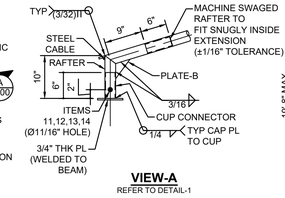
MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 17'-6" THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

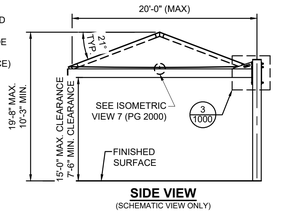


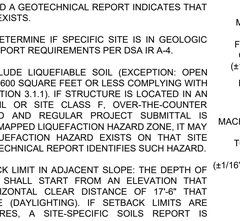


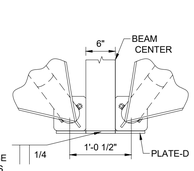








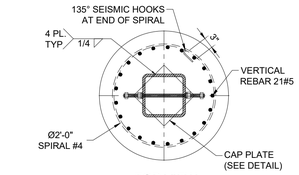


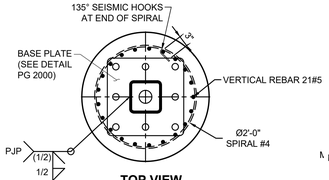


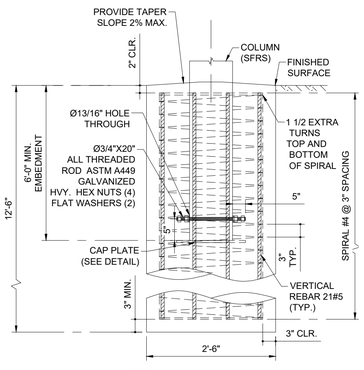
FOOTPRINT CONFIGURATION

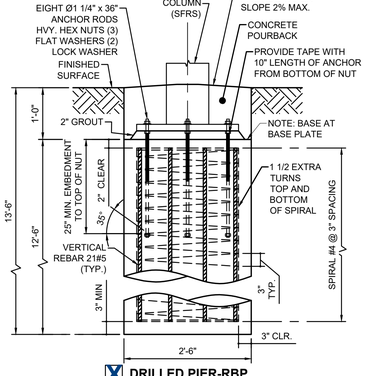
1.- THE STRUCTURE CAN BE PLACED FOLLOWING A CURVED CONFIGURATION AS LONG AS THE MAXIMUM DIMENSIONS ARE NOT EXCEEDED.

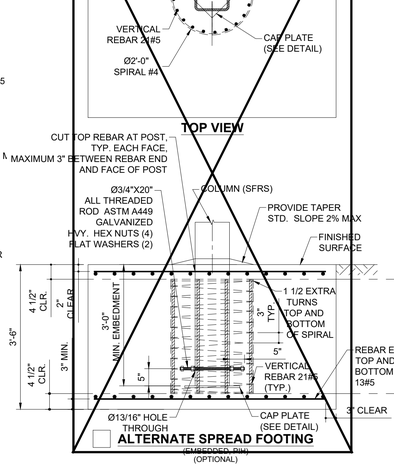
NOTE: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.

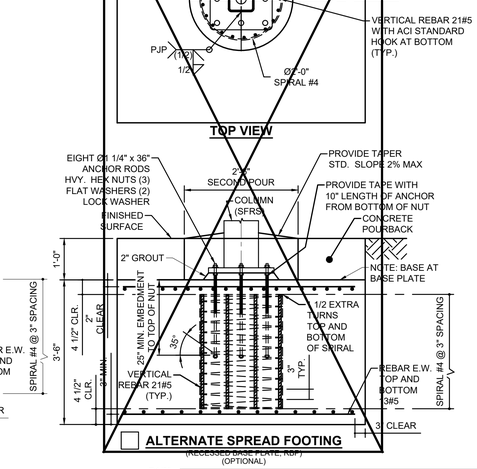


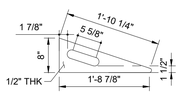


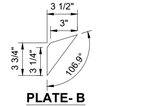














IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USA SHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD, SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Pittsburg U.S.D.

PROJECT NAME:
Highlands Elementary

LOCATION:
4141 Harbor Street
Pittsburg, CA 94565

MODEL NUMBER:
DSA3022060-22

STRUCTURE TYPE:
FULL CANTILEVER HIP JOINED - DSA

SIZE: MAXIMUM
20' x 200' x 15'e MAX.

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG.
DSA3022060-22

SHEET
12.1-1000

REV.
NC

LIST OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL
1	TBD	COLUMN	HSS 10 x 10 x 0.625
2A	TBD	BEAM LEFT	HSS 10 x 6 x 0.375
2B	TBD	BEAM RIGHT	HSS 10 x 6 x 0.375
2C	TBD	BEAM CENTER	HSS 10 x 6 x 0.375
3	TBD	CUP CONNECTOR (6" LG)	HSS 4.0 x 0.25
4	TBD	RAFTER (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
5	TBD	EXTENSION (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
6	TBD	CROSSPIECE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
7	TBD	RIDGE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
8	TBD	FABRIC TOP	FR COLOURSHADE 190/F5
9	TBD	Ø3/8" CABLE	GALVANIZED STEEL
10	TBD	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
11	TBD	Ø5/8"-11NC x 6" HEX BOLT (ST)	316 SS
12	TBD	Ø5/8"-11NC HEX NUT	316 SS
13	TBD	Ø5/8" FLAT WASHER	316 SS
14	TBD	Ø5/8" SPLIT LOCK WASHER	316 SS
15	TBD	Ø1"-8NC x 14 1/2" FULLY THREADED HEX BOLT (ST)	ASTM F3125 GRADE A325, GALVANIZED
16	TBD	Ø1"-8NC HEX NUT	ASTM A563DH GALVANIZED
17	TBD	Ø1" FLAT WASHER	ASTM F436 GALVANIZED

8/19/24



6/28/2024

190/F5 Fire rated specifications

Multiknit INTERNATIONAL

Standard range

Revision 0 28-Oct-12

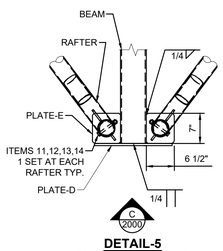
Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85		185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	86	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
				110 LB		159 LB		3258 PSF	

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

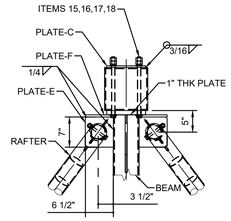
Notes:
- 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.
Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

pp
Deon Joubert
General Manager - Multiknit (Pty) Ltd

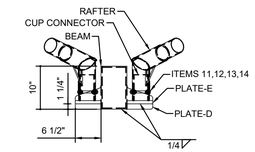
Tommy Rogers
Managing Director - Multiknit (Pty) Ltd



DETAIL-5
REFER TO TOP VIEW PG 1000



DETAIL-6
REFER TO TOP VIEW PG 1000



VIEW C
REFER TO DETAIL-5

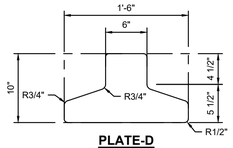
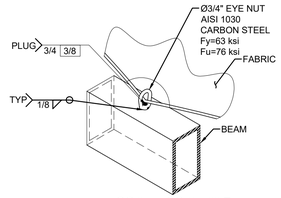


PLATE-D
REFER TO DETAIL-5
(1/2" THK PLT.)
(TYP. END OF CENTER BEAM)
(A572 GR.50)



ISOMETRIC VIEW 7
REFER TO SIDE VIEW PG 1000

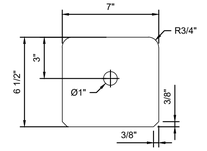


PLATE-E
REFER TO VIEW-B PG 2000
(3/4" THK PLATE)
(A572 GR.50)

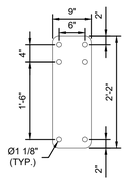
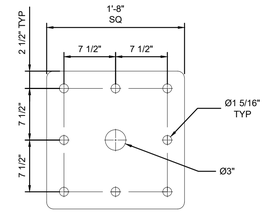


PLATE-C
REFER TO DETAIL-3 PG 1000
(3/8" THK PLATE)
(A572 GR.50)



BASE PLATE
(1 1/4" THK)
(TYP. FOR RBP COLUMNS)

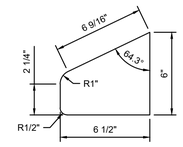
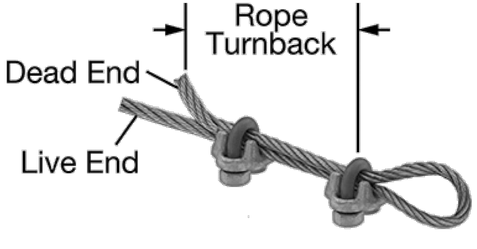


PLATE-F
REFER TO DETAIL-6
(1/2" THK PLATE)
(A572 GR.50)





FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 × 19
ATTACHMENT TYPE: LOOP
CLAMP:WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"
REQUIRED INSTALLATION TOOL TORQUE WRENCH
REQUIRED TORQUE 45 FT.-LBS.
CAPACITY 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450

Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.



7 x 19

7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:
MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA, ,

Issue Date : 05/08/2023
Expiration Date : 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122869 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/29/2026

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Pittsburg U.S.D.

PROJECT NAME:
Highlands Elementary

LOCATION:
4141 Harbor Street
Pittsburg, CA 94565

MODEL NUMBER:
DSA3022060-22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:
FULL CANTILEVER HIP JOINED - DSA

SIZE: MAXIMUM
20' x 200' x 15'e MAX.

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
SPECIFICATIONS

DWG. DSA3022060-22

SHEET 12.2-2000

REV. NC

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER MARK LIBERT No. 3693 STRUCTURAL STATE OF CALIFORNIA
6/28/2024