

ABBREVIATIONS

A/C	air conditioning	G.L.B.	glue laminated beam	RESIL.	resilient
A.C.	asphaltic concrete	G.A.	gauge	RET.	retaining
A.F.F.	above finish floor	GALV.	galvanized	REV.	revision
ACCESS	accessible	GL.	glass	RM.	room
ACOUS.	acoustical	GND.	ground	SAD	see architectural drawings
ADJ.	adjustable	GYP.	gypsum	S.C.	solid core
AGG.	aggregate	H.B.	hose bib	SCD	see civil drawings
AL.	aluminum	H.C.	hollow core	S.D.	soap dispenser
ALT.	alternate	H.M.	hollow metal	SED	see electrical drawings
ANC.	anchor	H.V.A.C	heating, ventilating, air conditioning	S.F.	square foot/feet
APPROX.	approximate			SFSD	see food service drawings
ARCH.	architect(ural)	HDW.	hardware	SLD	see landscape drawings
AUTO.	automatic	HDWD.	hardwood	SMD	see mechanical drawings
ABV.	above	HORIZ.	horizontal	S.N.D.	sanitary napkin dispenser
BD.	board	HR.	hour	S.N.R.	sanitary napkin receptacle
BTWN.	between	HT.	height	S.O.G.	slab on grade
BIT.	bituminous	HTR.	heater	SPD	see plumbing drawings
BLDG.	building	I.D.	inside diameter	S.S.	stainless steel
BLKG	blocking	IN.	inch	SSD	see structural drawings
BM.	beam	INCL.	include	S.Y.	square yard
BOT.	bottom	INSUL.	insulation	SAN.	sanitary
C.B.	catch basin	INT.	interior	SCHED.	schedule
C.I.	cast iron	INV.	invert	SECT.	section
C.I.P.	cast in place	JAN.	janitor	SHT.	sheet
C.J.	control joint	L.P.	low point	SHTG.	sheathing
CAB.	cabinet	LAB.	laboratory	SIM.	similar
CEM.	cement	LAM.	laminated	SPAC.	spacing
CER.	ceramic	LAV.	lavatory	SPEC(S).	specification(s)
CLG.	ceiling	LB.	pound	SO.	square
CLR.	clear	LOC.	location	STD.	standard
COL.	column	LT.	light	STL.	Steel
CONC.	concrete	M.H.	manhole	STOR.	storage
CONSTR.	construction	MACH.	machine	STRUCT.	structural
CONT.	continuous	MATL.	material	SUSP.	suspended
COORD	coordinate	MAX.	maximum	SYM. SYS.	symmetrical system
CTR.	center	MECH.	mechanical	T.	tread
CTSK.	countersunk	MED.	medium	T&B	top and bottom
D.F.	drinking fountain	MEMBR.	membrane	T.C.	top of curb
DBL.	double	MEZZ.	mezzanine	T&G	tongue and groove
DET.	detail	MFGR.	manufacturer	T.O.	top of
DIA.	diameter	MIN.	minimum	T.O.C.	top of concrete
DIAG.	diagonal	MISC.	miscellaneous	T.O.S.	top of sheathing
DIM.	dimension	MTD.	mounted	T.O.W.	top of wall
DISP.	dispenser	MTL./MET.	metal	T.P.	top of pavement
DN.	down	N.I.C.	not in contract	T.P.D.	toilet paper dispenser
DWG(S)	drawing(s)	N.T.S.	not to scale	T.S.C.D.	toilet seat cover dispenser
(E)	existing	NO.	number	T.V.	television
E.S.	each side	NOM.	nominal	TEL.	telephone
E.W.	each way	O/	over	TEMP.	temperature
EA.	each	O.C.	on center	TER.	terrazzo
EL.	elevation	O.D.	outside diameter	THK.	thick
ELEC.	electrical	O.F.C.I.	owner furnish, contractor install	TYP.	typical
ELEV.	elevator			U.O.N.	unless otherwise noted
EMER.	emergency	O.H.	overhead	UR.	urinal
ENCL.	enclosure	OPNG.	opening	V.C.P.	vitreous clay pipe
ENGR.	engineer	OPP.	opposite	V.C.T.	vinyl composition tile
EQ.	equal	P.LAM	plastic laminate	V.I.F.	verify in field
EQUIP.	equipment	P.V.C.	polyvinyl chloride	V.T.R.	vent through roof
ETC.	et cetera	PERF.	perforated	V.W.C.	vinyl wall covering
EXP.	expansion	PLAS.	plaster	VERT.	vertical
EXT.	exterior	PLBG.	plumbing	VEST.	vestibule
F.A.	fire alarm	PLYWD.	plywood	W/	with
F.D.	floor drain	PR.	pair	W.C.	water closet
F.E.	fire extinguisher	PREFAB.	prefabricated	W/O	without
F.H.	flat head	PROJ.	projection	W/P	waterproof
F.O.C.	face of concrete	PT.	point	W.W.F.	welded wire fabric
F.O.F.	face of finish	Q.T.	quarry tile	WD.	wood
F.O.S.	face of stud	R.C.P.	reflected ceiling plan	WDW.	window
FDN.	foundation	R.A.	roof drain	WSC.T.	wainscot
FIN.	finish	R.D.O	roof drain overflow	WT.	weight
FLR.	floor	R.O.	rough opening		
FLUOR.	fluorescent	R.W.L.	rain water leader		
FT.	foot or feet	RAD.	radius		
FTG.	footing	REF.	reference		
FUR.	furring	REFL.	reflected		
G.B.	grab bar	REFR.	refrigerator		
G.C.	general contractor	REINF.	reinforce(d) (ing).(ment)		
G.I.	galvanized iron	REQD.	required		

PIEDMONT MIDDLE SCHOOL

CONDUIT RACEWAY PROJECT

955 PIEDMONT ROAD SAN JOSE, CA 95132

STATE AGENCY REQUIREMENTS

- All numbers refer to Part 1, Title 24, CCR of the 2019 CBC..
1. Addenda and CCD's shall be processed per section 4-338.
Any condition encountered that is not covered by DSA approved documents shall be detailed and submitted and approved by DSA prior to execution of the work.
- A DSA certified project Inspector employed by the District (Owner) and shall be certified and approved by DSA. The project Inspector shall provide continuous inspection of work per section 4-333(b) & 4-342.
- Tests and testing laboratory per section 4-335 (employed by owner), shall be accepted by DSA and conduct all the required tests and inspections for the project.
- Provide special inspection per section 4-333(c).
- Contractor, Inspector, Architect and Engineer shall submit verified reports per section 4-336 & 4-343(c).
- Administration of construction per Part 1, Title 24, CCR
a. Duties of Architect, Structural Engineer, or professional engineer per section 4-333(a) & 4-341.
b. Duties of contractor per section 4-343
c. Verified reports per section 4-336 & 4-343(c)
- Governing Codes: Title 24, CCR.
- A copy of Part 1, Part 2 & Part 5 of Title 24 shall be kept and available in field during construction.
- DSA shall be notified on start of construction per section 4-331.
- Supervision by the Division of the State Architect (DSA) per section 4-334.
- Separate application may be required for all N.I.C. items not part of DSA approval.
- Refer to the DSA-103 form of required structural tests and special inspections.
- DSA is not subject to arbitration.
- Changes or revisions which affect access compliance are required to be submitted to DSA for approval.
- Substitutions affecting DSA-regulated items shall be submitted as Construction Change Documents or Addenda and shall be approved by DSA prior to fabrication and installation.

GOVERNING CODES

2019 California Code of Regulations
2019 California Building Standards Administration Code, Part 1, Title 24, C.C.R.
2019 California Building Code (CBC), Part 2, Title 24, C.C.R.
2019 California Electrical Code (CEC), Part 3, Title 24, C.C.R.
2019 California Mechanical Code (CMC), Part 4, Title 24, C.C.R.
2019 California Plumbing Code (CPC), Part 5, Title 24, C.C.R.
2019 California Energy Code (CEC), Part 6, Title 24, C.C.R.
2019 California Fire Code (CFC), Part 9, Title 24, C.C.R.
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 C.C.R.
2019 California Referenced Standards Code, Part 12, Title 24, C.C.R.
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2010 ADA Standards for accessible design

GENERAL CONSTRUCTION NOTES

- All work shall be performed in conformance with local, county, state and federal codes, laws, and regulations applicable to this work, including CCR Title 19, and CBC 2019.
- Existing construction data shown on the drawings was obtained from available drawings. The contractor shall verify all existing conditions and shall notify the architect of all exceptions before proceeding with the work.
- All discrepancies between drawings shall be clarified with the architect prior to proceeding with the work.
- In the event that certain features of the construction are not fully shown or detailed on the drawings or called for in the general notes, then their construction shall be of the same character as similar conditions shown or called for.
- Verify electrical, mechanical, fire alarm, telephone and security requirements before construction begins.
- Any item identified to be demolished, removed, or relocated is to be completely removed, including but not limited to any concealed items (pipes, curbs, framing, beams, fasteners, etc.). All items within a demolished area that must be rerouted in order to maintain continuity shall be done so in accordance with appropriate specification sections in the project manual at no additional cost. If no specification can be found within the project manual, then continuity shall be maintained by current standard methods for construction but not lesser in quality then existing. Any area of demolition or removal shall be left in a completely finished condition as outlined in the project manual.
- Contractor to coordinate with District prior to beginning work.
- The intent of these drawings and specifications is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, California Code of Regulations. Should any existing conditions such as deterioration or noncomplying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a change order, or a separate set of plans and specifications, detailing and specifying the required repair work shall be submitted to and approved by DSA before proceeding with the repair work.
- Compliance with CFC Chapter 14, fire safety during construction and demolition and CBC Chapter 33, safety during construction will be enforced.
- Per CBC 11B-104.1, all dimensions are subject to conventional industry tolerances except where the requirement is stated as a range with specific minimum and maximum end points.

SHEET INDEX

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Regulatory Agency Approval

DSA: 01 -xxxxxx / File: 43-7



BID SET

Engineer Seal

Architect Seal



Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
CONDUIT RACEWAY PROJECT

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT RD
SAN JOSE, CA 95132

No

Revisions/Submissions

Date

Drawing Title

TITLE SHEET

Project No.

2106

Date

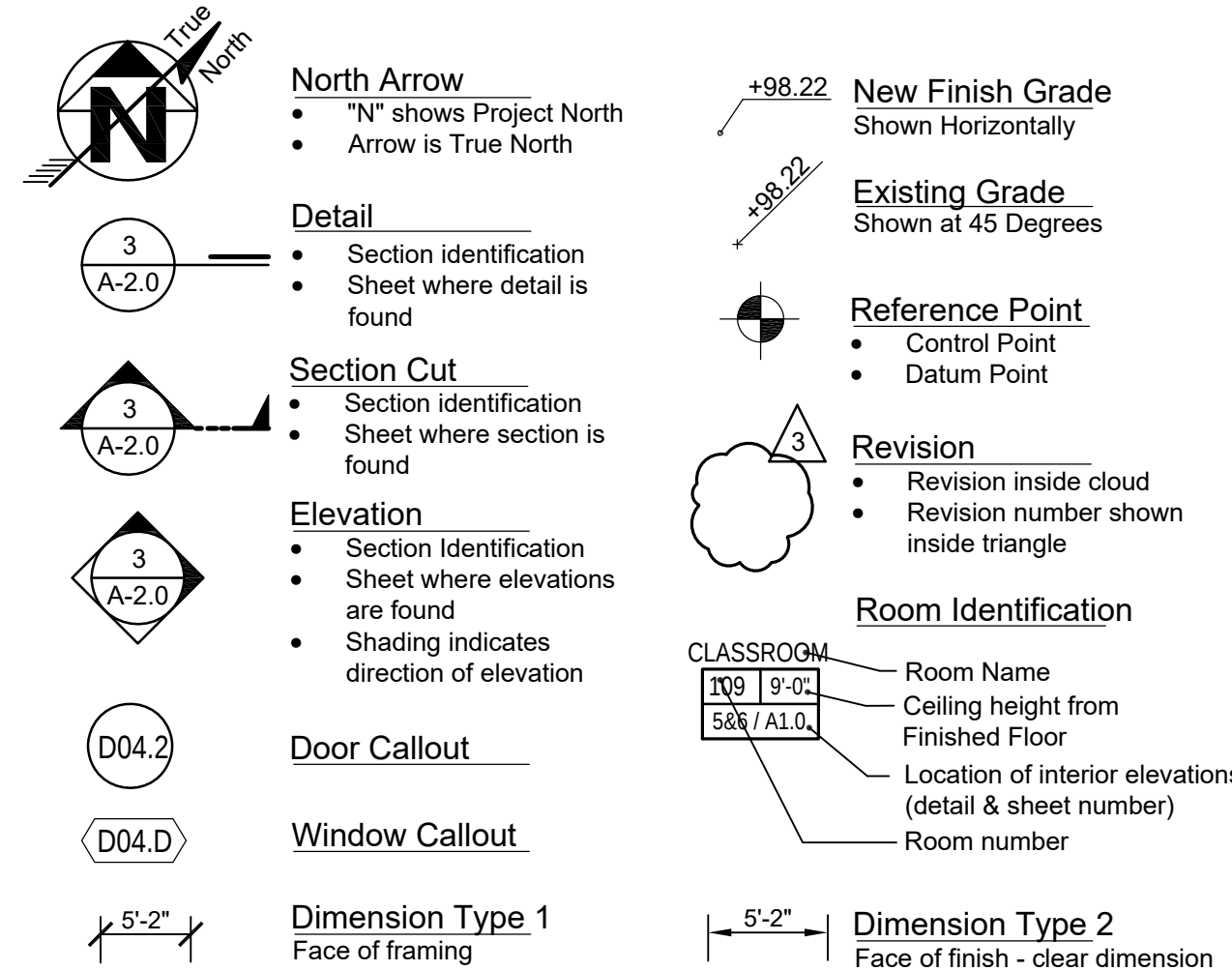
April 28, 2022

CD

Drawing Number

A-0.1

LEGEND



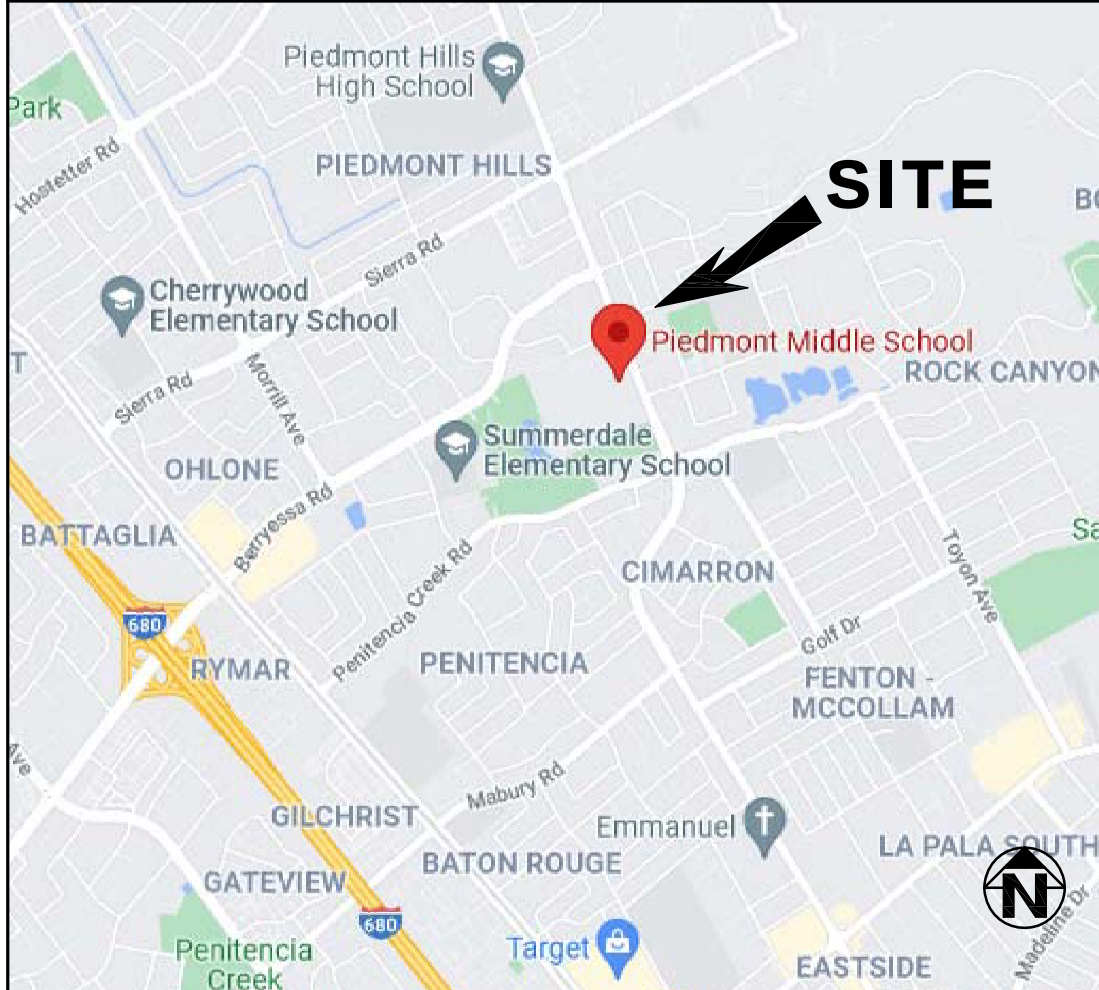
APPLICABLE NFPA STANDARDS

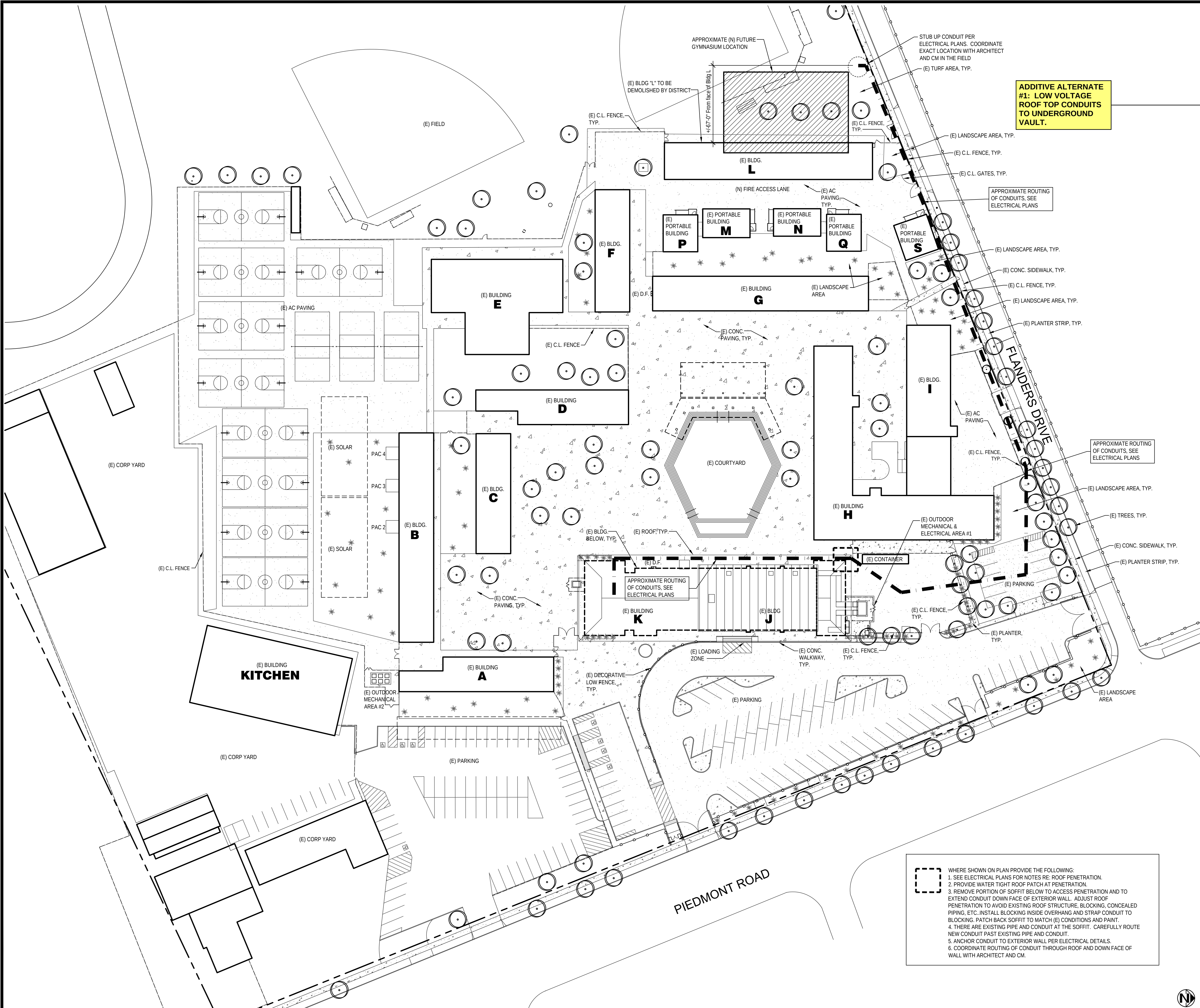
National Reference Standards		
NFPA 13	Automatic Sprinkler Systems	2016 Edition
NFPA 14	Standpipes Systems (CA Amended)	2016 Edition
NFPA 17a	Wet Chemical Extinguishing Systems	2017 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 24	Private Fire Mains (CA Amended)	2016 Edition
NFPA 72	National Fire Alarm Code (CA Amended)	2016 Edition
NFPA 80	Fire Door and Other Opening Protectives	2016 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Edition

PROJECT SUMMARY

Project consists of installation of conduit, J-boxes and pull strings from the existing MSB to a designated location per the electrical plans.

VICINITY MAP





SCOPE OF WORK

1. Install surface mount and direct burial conduit, j-boxes, Christy boxes, pull strings, etc. as shown and noted on the electrical plans.
2. Some of the conduit runs will occur over existing roofs. Cut and patch (E) roof system as required. All patching shall match the (E) roof system material, shall be water tight and shall carry a 5 year warranty.
3. Some of the conduit runs will occur on the face of existing buildings. Cut and patch (E) wall surface as required. All patching shall match the (E) wall material, shall be water tight.
4. Paint conduit where visible starting at roof overhang down to where it enters a trench.

GENERAL NOTES

1. Contractor shall supply all equipment, labor and materials necessary to perform the work shown on this plan.
2. It shall be the responsibility of the various contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.
3. All workmanship and materials furnished by the contractor shall be the kind and quality described in the specifications and shall be first class throughout. neither final acceptance nor final payment by owner shall relieve the contractor of responsibility for faulty materials or workmanship
4. In the event of any conflict of information shown on these plans or any conflict between these plans and the intent of a consistent and functional product, the contractor shall so notify the owner in writing, upon which notice the owner shall resolve the conflicts by the issuance of a written order, revised plans or both. The contractor shall bear full cost and responsibility for work affected by such conflicts and performed by contractor prior to such notice to the owner and issuance of such order and/or revised plans.
5. Contractor shall provide adequate dust control at all times as required by owner's representative.
6. Contractor shall exercise all necessary caution to avoid damage to any existing trees, or surface improvements or to any existing drainage structure, water structure, sewer cleanouts, manholes, or junction boxes for underground electric, gas, telephone, cable t.v., storm, sanitary, water or other utilities which are to remain in place and shall bear full responsibility for any damage thereto.
7. All existing utility lines are NOT shown, contractor shall exercise all necessary caution to avoid damage to any existing utility lines or facilities to remain in place, whether or not such facilities appear on these plans, and shall bear full responsibility for any damage thereto. Contractor shall request as-built plans from the District or Construction Manager prior to any work to assist in the location of (E) utilities.
8. Contractor shall contact both underground service alert (800-227-2600) and the affected utility company prior to starting work to request and obtain the marking of existing underground facilities.
9. Contractor shall pot hole ALL points of connections to determine location, depth and size of (E) utility prior to commencing of work.
10. Where cutting and patching of (E) concrete paving occurs, saw cut (E) concrete at tooled joints or construction joints and dowel into (E) concrete prior to pouring concrete patch. Refer to details on A-12.2.
11. Where cutting and patching of (E) AC paving occurs, patch back AC paving to match (E) thickness and base rock thickness. If (E) striping occurs over (E) AC paving, restripe area to match (E) conditions. Refer to details on A-12.2.
12. Where trenching occurs near (E) buildings provide enough distance to comply with the trench restriction detail on A-12.2.
13. At the completion of the project the contractor shall provide an accurate as-built drawing of the final routing, depth and sizes of conduits installed. Provide dimensions locating the conduit from various (E) building exterior walls and corners to ensure the most accurate document.

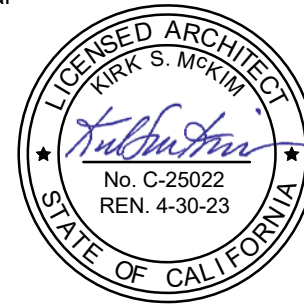
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Date

Drawing Title

SITE PLAN

Project No.

2106

Date

April 28, 2022

CD

Drawing Number

A-1.1

20		16		12	
					(E) CONCRETE PAVING #4 @ 24" O.C. MAX., EPOXY INTO (E) 4" CONCRETE S.O.G. W/#4 @ 18" O.C. EA. WAY, TYP. CLASS II AGG. BASE COMPACTED TO 95% OVER FILL COMPACTED TO 95%, TYP. 6" MIN. NOTE: USE SIMPSON "SET-XP" EPOXY ADHESIVE FOR SECURING DOWELS OR APPROVED EQUAL.
19		15		11	
					CONCRETE PATCH 1 1/2" = 1'-0"
					(E) A.C. PAVING A.C. PAVING PATCH CLASS II BASEROCK COMPACTED TO 95% NATIVE MATERIAL COMPACTED TO 95% PRIME/TACK COAT EDGES AS RECOMMENDED 3" 6"
18		14		10	
					A.C. PAVING PATCH 1 1/2" = 1'-0"
					FOUNDATION GRADE TRENCH PLANE OF INFLUENCE NO TRENCHING INSIDE PLANE OF INFLUENCE PARALLEL TO FOUNDATION
17		13		9	
					TRENCH RESTRICTIONS N.T.S.

Regulatory Agency Approval

DSA: 01 -xxxxxx / File: 43-7



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Drawing Title

SITE DETAILS

Project No.
2106

Date
April 28, 2022

CD

Drawing Number
A-12.2

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL. PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7. CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
15. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT WHERE POSSIBLE.
16. WHERE IT IS NOT POSSIBLE TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
17. EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
19. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
20. WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
21. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ARCHITECT BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE.
22. CONTRACTOR SHALL COORDINATE WITH PG&E & PAY ALL CHARGES FOR TEMPORARY CONSTRUCTION POWER.
23. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND OBTAIN UTILITY COMPANY CONSTRUCTION DOCUMENTS. UTILITY COMPANY CHARGES SHALL BE PAID BY OWNER.

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

	FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE		SECURITY DOOR CONTACTS		PANELBOARD - FLUSH MOUNTED		DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL
	EMERGENCY OR NIGHT LIGHT		SECURITY MOTION DETECTOR		EQUIPMENT PANEL - FLUSH MOUNTED		DETAIL NUMBER DETAIL OR SECTION REFERENCE SHEET NUMBER
	STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE		CCTV CAMERA		PANELBOARD - SURFACE MOUNTED		FEEDER DESIGNATION: SEE ASSOCIATED NOTE ON SAME DETAIL
	LUMINAIRE - RECESSED - SEE SCHEDULE		SECURITY SYSTEM KEYPAD		EQUIPMENT PANEL - SURFACE MOUNTED		
	RECESSED WALL WASHER		DOOR BELL PUSHBUTTON		METER W/ CURRENT TRANSFORMER		
	LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE		DOOR CHIME WITH LED		JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES		
	LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE		RECEPTACLE - DUPLEX *		MOTOR CONNECTION		
	LUMINAIRE - WALL MOUNTED SEE SCHEDULE		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		NON-FUSED DISCONNECT SWITCH		
	BOLLARD OR PATH LIGHT - SEE SCHEDULE		GFCI CONVENIENCE RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA		
	EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE		GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA		
	TRACK LIGHTING - SEE SCHEDULE		RECEPTACLE DOUBLE DUPLEX*		MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED		
	EMERGENCY LIGHT		HALF SWITCHED DUPLEX RECEPTACLE *		CIRCUIT BREAKER		
	DIGITAL DUAL TECHNOLOGY OCC SENSOR		SINGLE RECEPTACLE*		GROUND ROD WITH GROUNDWELL BOX		
	LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED		DUPLEX RECEPTACLE - CEILING MOUNTED		GROUND ELECTRODE		
	DIMMER ROOM CONTROLLER		LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *		NORMALLY OPEN CONTACT		
	PLUG LOAD CONTROLLER		LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *		NORMALLY CLOSED CONTACT		
	ROOM LIGHTING CONTROLLER		FLOOR MOUNTED DUPLEX RECEPTACLE		TRANSFORMER - SEE SINGLE LINE FOR SIZE		
	LIGHTING CONTROL PANEL		FLOOR MOUNTED BOX		PULLBOX		
	DIGITAL DAYLIGHT SENSOR		POWER OUTLET - SEE PLANS FOR NEMA TYPE*		FLEX CONDUIT WITH CONNECTION		
	SINGLE POLE SWITCH ** a = CIRCUIT CONTROLLED		POWER POLE		CONDUIT - UP		
	SINGLE POLE SWITCH,** a = CIRCUIT CONTROLLED		WALL TELEPHONE OUTLET **		CONDUIT - DOWN		
	THREE WAY SWITCH**		VOICE/DATA WALL OUTLET *		CONDUIT EMERGENCY SYSTEM		
	FOUR WAY SWITCH**		VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		LOW VOLTAGE WIRING		
	MANUAL MOTOR STARTER		SURFACE MOUNTED VOICE/DATA WALL OUTLET *		SURFACE METAL OR NON-METALLIC RACEWAY		
	KEY OPERATED SWITCH **		SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		CONDUIT - EXISTING		
	LIGHTING DIMMER **		WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED		CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4" MIN.		
	DIGITAL ON/OFF SWITCH **		WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT		CAPPED OR STUB-OUT CONDUIT		
	DIGITAL DIMMER SWITCH **		VOICE/DATA OUTLET - FLOOR MOUNTED		CONDUIT CONTINUATION		
	DIGITAL MULTI SCENE LIGHTING SWITCH **		TV OUTLET *		CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.		
	DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR **		VOICE/DATA OUTLET - CEILING MOUNTED		SHEET NOTE REFERENCE SYMBOL: SEE ASSOCIATED NOTE ON SAME SHEET		
	WALL OCCUPANCY SENSOR **		INTERIOR SPEAKERS CEILING MOUNTED		SCHEDULE SYMBOL: SEE ASSOCIATED NOTE ON SAME SHEET		
	DOUBLE SWITCHED WALL OCCUPANCY SENSOR **		INTERIOR SPEAKERS WALL MOUNTED				
	DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **		CLOCK *8-0" AFF U.O.N. VERIFY BEFORE INSTALLATION				
	2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **						

ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT INTERRUPTING	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	GFI	GROUND	OAH	OVERALL HEIGHT
ALUM/AL	ALUMINUM	GND, G	GALVANIZED RIGID	OC	ON CENTER
ARCH	ARCHITECT	GRS	STEEL	OH	OVERHEAD
AWG	AMERICAN WIRE		GAUGE	PA	PUBLIC ADDRESS
BKR	BREAKER	HT	HEIGHT	PB	PULL BOX
C	CONDUIT	IC	INTERCOM	PF	POWER FACTOR
CATV	CABLE TV	IDF	INTERMEDIATE DISTRIBUTION FRAME	PH	PHASE
CB	CIRCUIT BREAKER	INCAND	INCANDESCENT	PIR	PASSIVE INFRARED
CCTV	CLOSED CIRCUIT TV	JB	JUNCTION BOX	PNL	PANEL
CKT	CIRCUIT	KV	KILOVOLT	PV	PHOTOVOLTAIC
CL	CENTER LINE	KVA	KILOVOLT AMPERES	PVC	POLYVINYL CHLORIDE
C.O.	CEILING	KW	KILOWATT	PWR	POWER
CLG	CONDUIT ONLY	LCP	LIGHTING CONTROL	(R)	EXISTING TO BE REMOVED
CTR	CENTER	LTG	LIGHTING	(RP)	REMOVABLE POLE
D	DIMMER	LV	LOW VOLTAGE	RECPTS	RECEPTACLES
DIM	DIMENSION	KCM	THOUSAND CIRCULAR MILS	REQD	REQUIRED
DIST	DISTRIBUTION			REQMT'S	REQUIREMENT(S)
(E)	EXISTING	M.B.	MAIN CIRCUIT BREAKER	SHT	SHEET
EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	SLD	SINGLE LINE DIAGRAM
(EL)	EVENING LIGHT	MDF	MAIN DISTRIBUTION FRAME	STC	SYSTEMS TERMINATION
EM	EMERGENCY	MECH	MECHANICAL	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	MH	METAL HALIDE	SWBD	SWITCHBOARD
EQUIP	EQUIPMENT	MLO	MAIN LUGS ONLY	TB	TELEPHONE TERMINAL BACKBOARD
EV	ELECTRICAL VEHICLE	MPOE	MAIN POINT OF ENTRANCE	TYP	TYPICAL
FA	FIRE ALARM	MTD	MOUNTED	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	MOCP	MAXIMUM OVER CURRENT PROTECTION	UG	UNDERGROUND
FC	FINISH	(N)	NEW	V	VOLT
FIN	FLOOR	NIC	NOT IN CONTRACT	VD	VOLTAGE DROP
FL	FULL LOAD AMPS	NIEC	NOT IN ELECTRICAL CONTRACT	W	WATT
FLUOR	FLUORESCENT	(NL)	NIGHT LIGHT	WI	WITH
(F)	FUTURE	NOM	NOMINAL	WP	WEATHERPROOF
GC	GENERAL CONTRACTOR			XFMR	TRANSFORMER

** +15" A.F.F. TO BOTTOM OF BOX, U.O.N.
** +48" A.F.F. TO TOP OF BOX, U.O.N.
[#] NUMBER IN BRACKETS DENOTES NUMBER OF CABLE DROPS WHEN MORE THAN (2).

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 & 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED(e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120 / 220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FEXLIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

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

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 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. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (e.g. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

- MP ☐ MD ☐ PP ☐ E ☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_____.

APPLICABLE CODES & STANDARDS

CODES:

- 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
- 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

STANDARDS:

- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- UNDERWRITER LABORATORIES (UL)
- CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

E0.1	SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX.
E.1.1	ELECTRICAL SINGLE LINE DIAGRAM & DETAILS.
E.2.1	OVERALL ELECTRICAL SITE PLAN.
E.2.2	PARTIAL ELECTRICAL SITE PLAN.

SCOPE OF WORK

INSTALL NEW CONDUITS/UNDERGROUND INFRASTRUCTURE FOR POWER/SYSTEMS FROM EXISTING CAMPUS HEAD-END TO NEARBY LOCATION OF FUTURE MODULAR GYMNASIUM BUILDING.



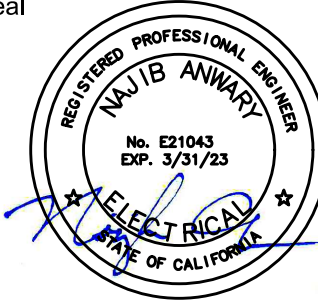
AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.

Project No. 21-519.00

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Engineer Seal



Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
CONDUIT RACEWAY PROJECT

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT RD
SAN JOSE, CA 95132

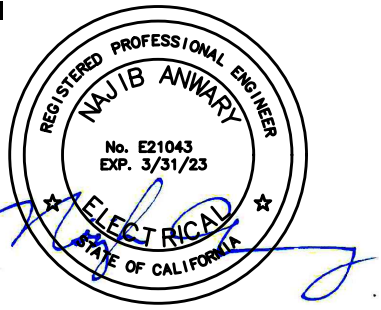
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Drawing Title

SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX

Project No. 2106 Date April 28, 2022

Drawing Number
CD E0.1

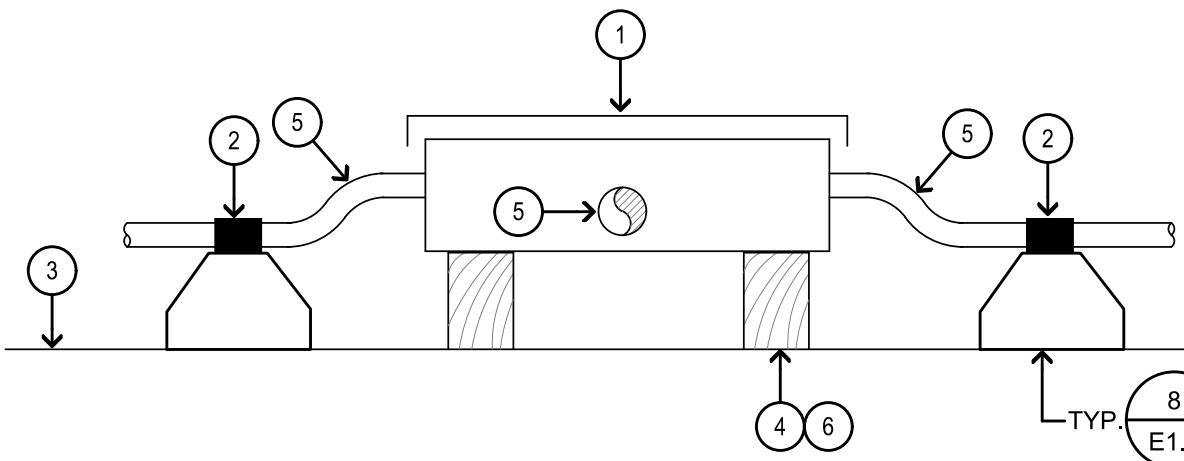


PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
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CONDUIT RACEWAY PROJECT

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No	Revisions/Submissions	Date

**ELECTRICAL SINGLE LINE
DIAGRAM & DETAILS**

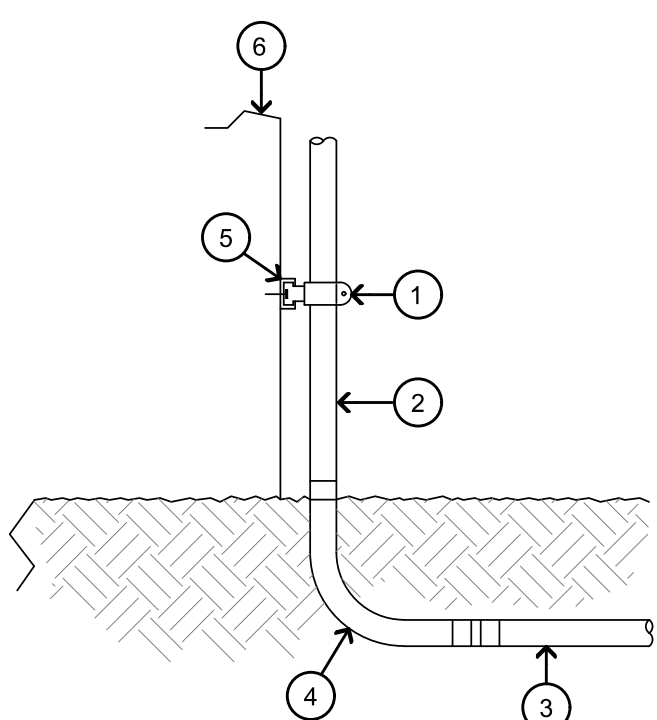


DETAIL NOTES:

1. PULLCAN, NEMA 4 LOCKABLE.
2. CONDUIT STRAP.
3. FINISHED ROOF.
4. 4 x 4 SLEEPER, SET IN MASTIC.
5. RIGID STEEL CONDUITS.
6. PRESSURE TREATED LUMBER.

3 PULLCAN AT ROOF DETAIL

NO SCALE



DETAIL NOTES:

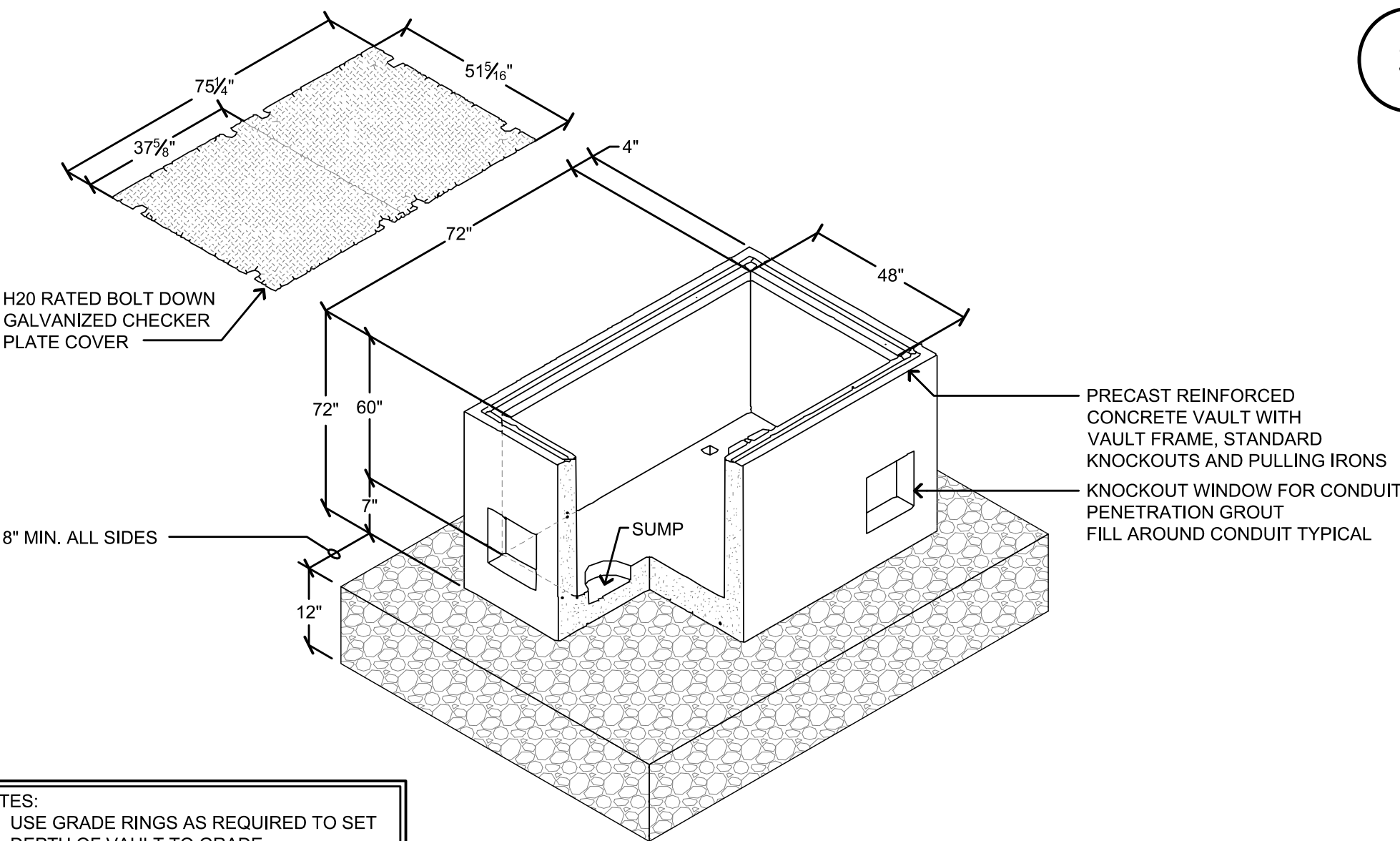
1. UNISTRUT BRACKET.
2. GALVANIZED RIGID STEEL CONDUIT.
3. SCHEDULE 40 PVC.
4. WRAPPED GALVANIZED RIGID STEEL ELBOW AND UNDERGROUND RISER.
5. UNISTRUT CHANNEL.
6. LOCATE EXISTING STUDS TO ANCHOR UNISTRUT CHANNEL. IF NOT POSSIBLE, REMOVE PORTION OF EXISTING WOOD SIDING AND VERTICAL TRIM AND INSTALL 4x6 BLOCKING WITH A35 CLIPS TOP AND BOTTOM BOTH ENDS. BLOCKING SHALL OCCUR NEAR TOP PLATES, MID SPAN AND NEAR SILL PLATES. INSTALL PLYWOOD AND TRIM OVER BLOCKING AND PAINT SURFACES TO MATCH EXISTING COLOR AND THEN INSTALL UNISTRUT TO BLOCKING. INSTALL WOOD SHIM PIECES BEHIND UNISTRUT TO LEVEL SURFACE WITH VERTICAL TRIM PIECES. USE 3/4" DIA. LAG SCREWS INTO BLOCKING AND PENETRATION SHALL BE 2" MINIMUM.

GENERAL NOTES:

- A. FOR WOOD STUD WALL:
USE 3/4" LAG BOLT WITH MIN. 2" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
- B. FOR CONCRETE WALL:
USE 3/4" WEDGE ANCHOR WITH MIN. 2 1/2" EMBEDMENT INTO CONCRETE WALL. (ONE AT EACH END OF BRACKET)

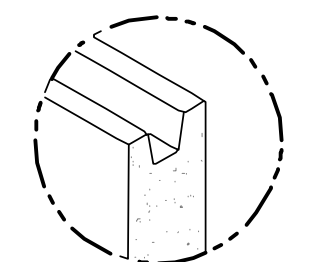
2 UNDERGROUND CONDUIT RISER DETAIL

NO SCALE



NOTES:

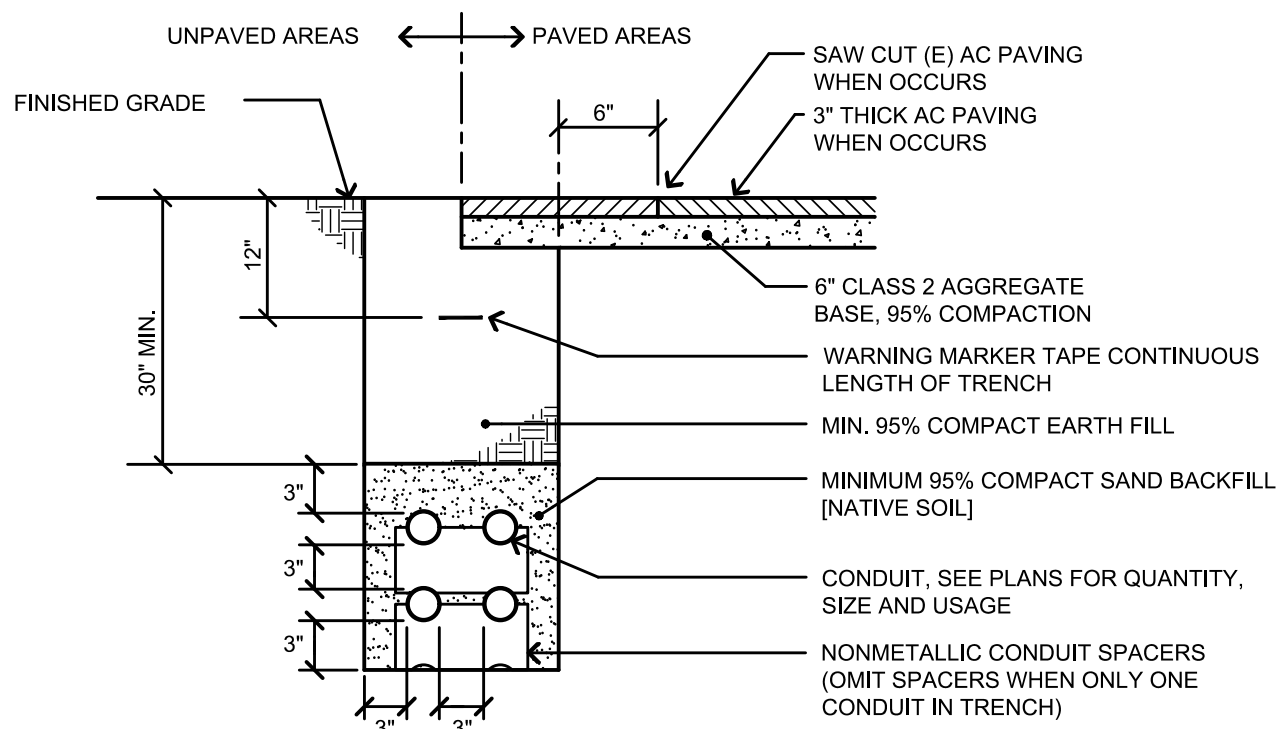
1. USE GRADE RINGS AS REQUIRED TO SET DEPTH OF VAULT TO GRADE.
2. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION. A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.



GROOVED TO RECEIVE
TONGUE OF GRADE RINGS

5 4' x 6' x 6' UTILITY VAULT

NO SCALE

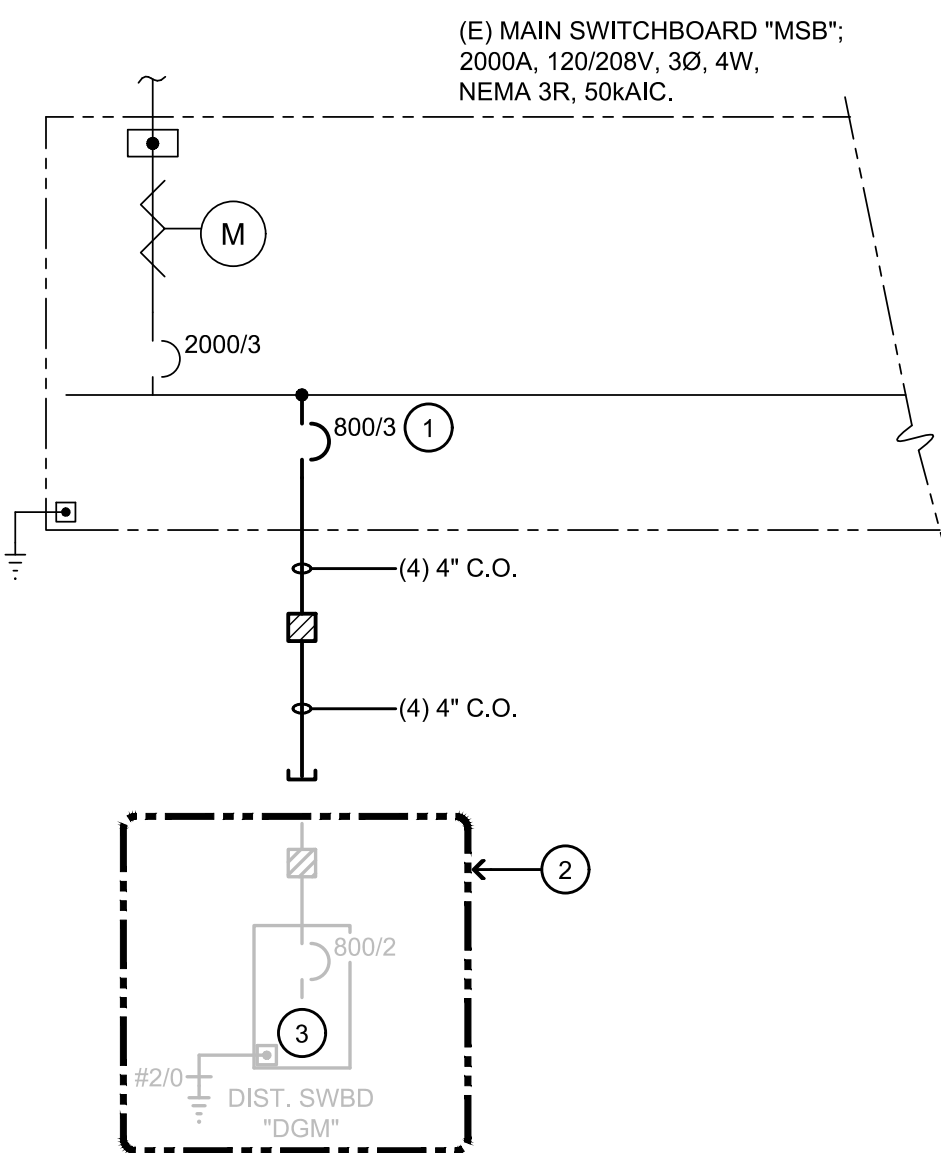


NOTES:

1. SAW CUT, TRENCH & BACKFILL FOR NEW CONDUITS. PATCH WALKWAY TO MATCH (E) SURROUNDING SURFACES. CARE SHALL BE TAKEN TO PROTECT EXISTING TREES. RESEED OR RESOD (E) DISTURBED PLANTED AREAS TO ARCHITECT'S SATISFACTION.
2. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION. A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.

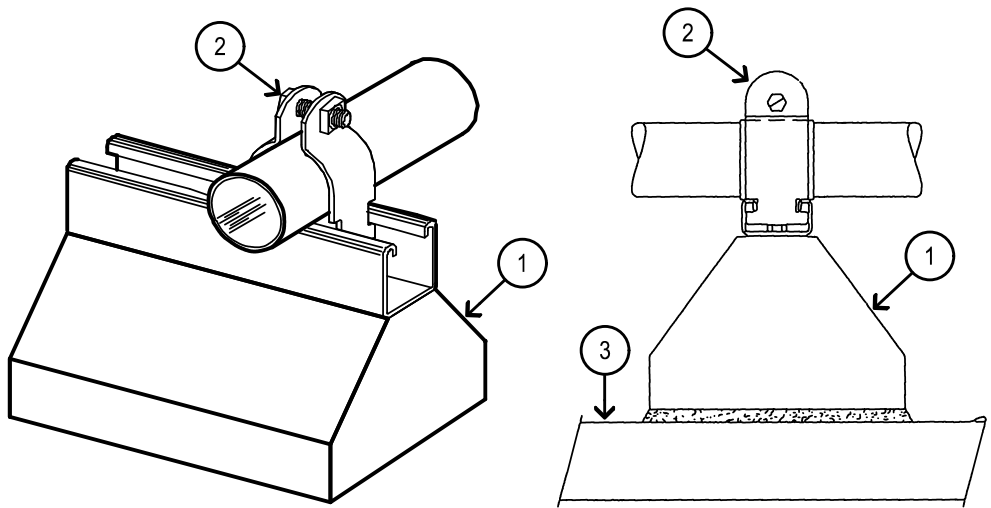
4 TYPICAL TRENCH SECTION

NO SCALE



1 ELECTRICAL SINGLE LINE DIAGRAM

NO SCALE



DETAIL NOTES:

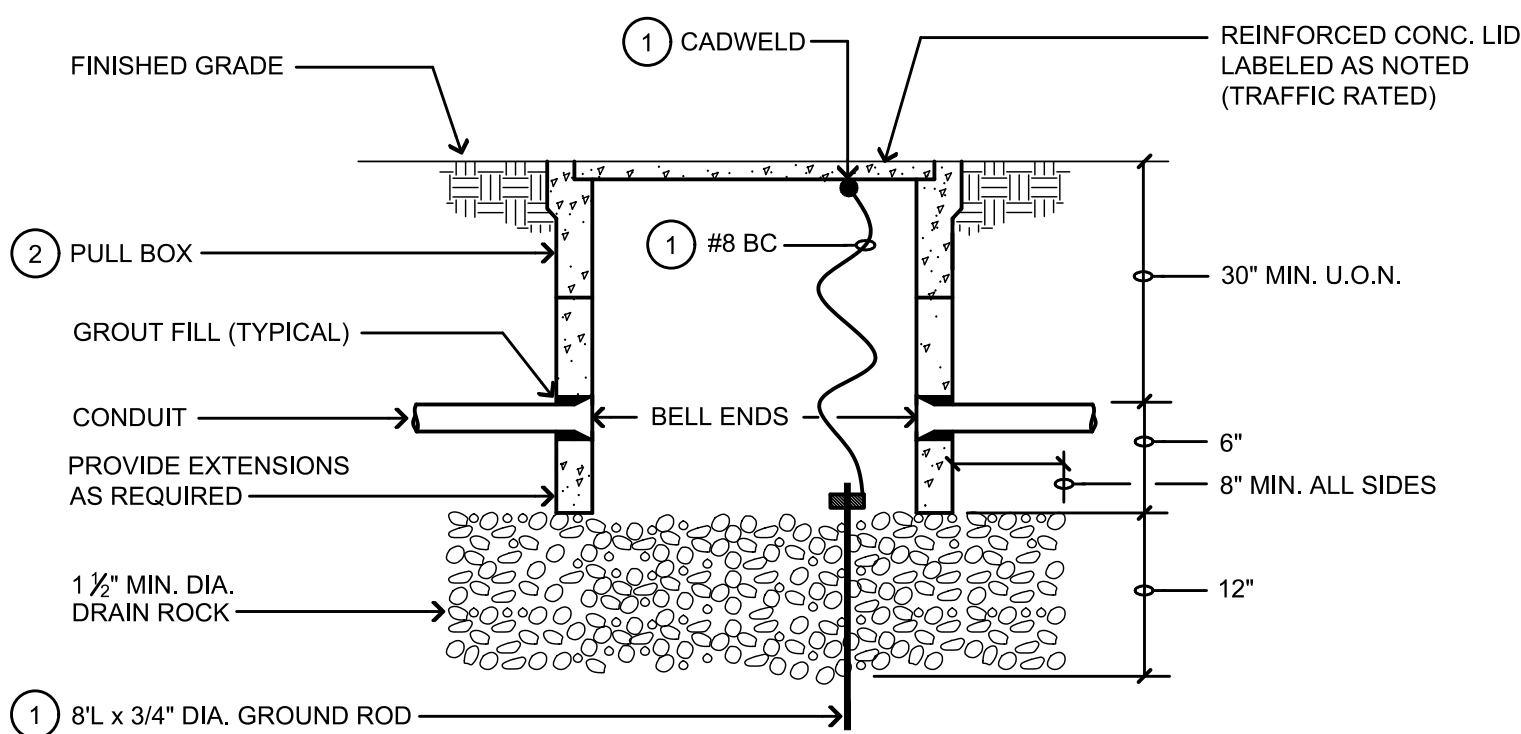
1. ROOF TOP CONDUIT SUPPORT: 5" x 6" x 9.5" WITH 1" HIGH 14 GA. GALVANIZED CHANNEL STRUT. COOPER B-LINE "DB" SERIES.
2. 14 GA. RIGID CONDUIT CLAMP WITH RECESS HEX HEAD MACHINE SCREW AND SQUARE NUT COMBINATION. COOPER B-LINE B2000 SERIES.
3. CLEAN (E) ROOF AREA AS REQUIRED.

8 ROOF MOUNTED CONDUIT SUPPORT DETAIL

NO SCALE

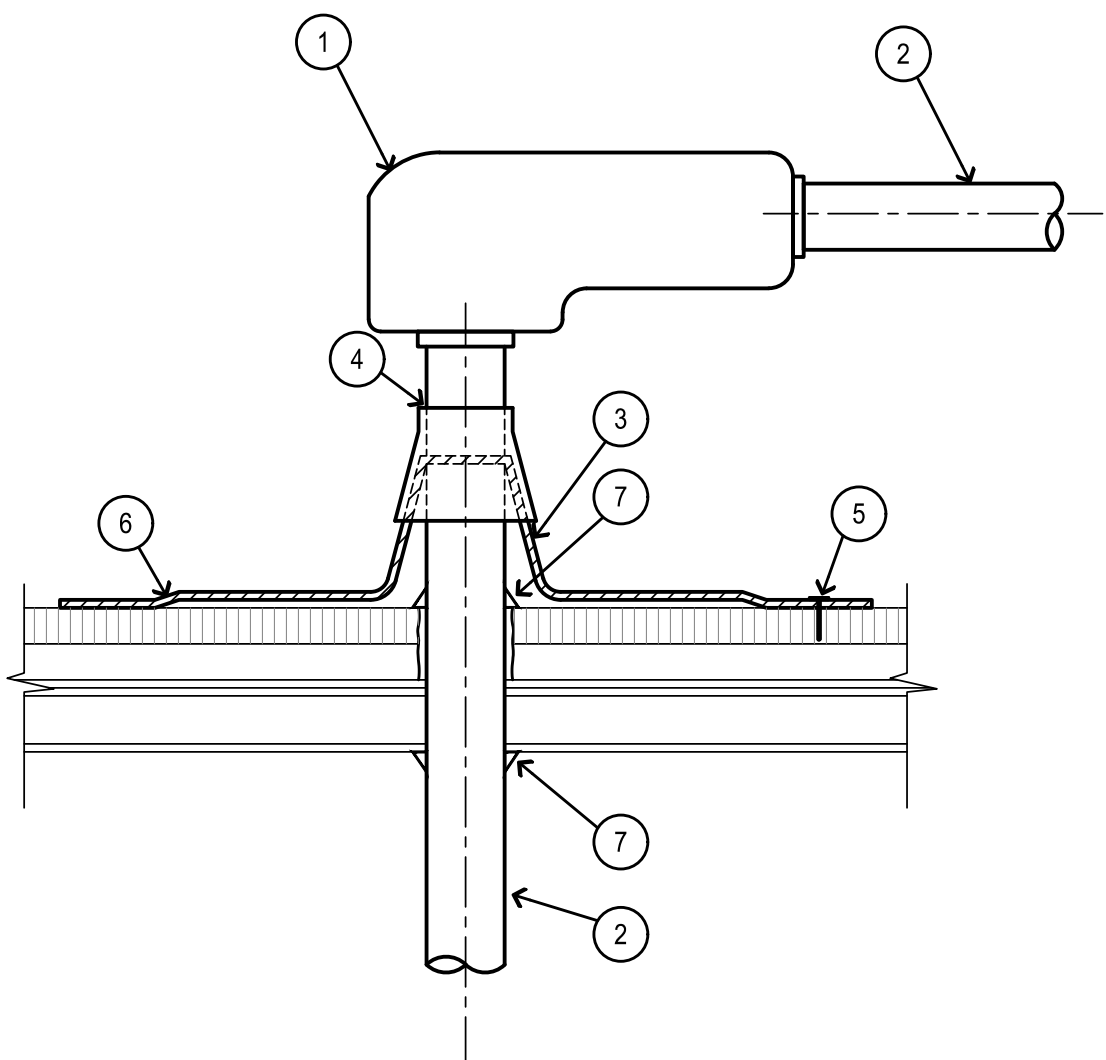
DETAIL NOTES:

1. FOR BOXES WITH METAL LIDS ONLY, PROVIDE GROUND ROD W/BC CABLE. PROVIDE ENOUGH SLACK TO ALLOW FOR REMOVAL OF LID (120/208 & 277/480V ONLY)
2. SIZE(S) & MFG. AS NOTED ON [PULLBOX SCHEDULE] [DRAWINGS].



7 TYPICAL PULLBOX DETAIL

NO SCALE

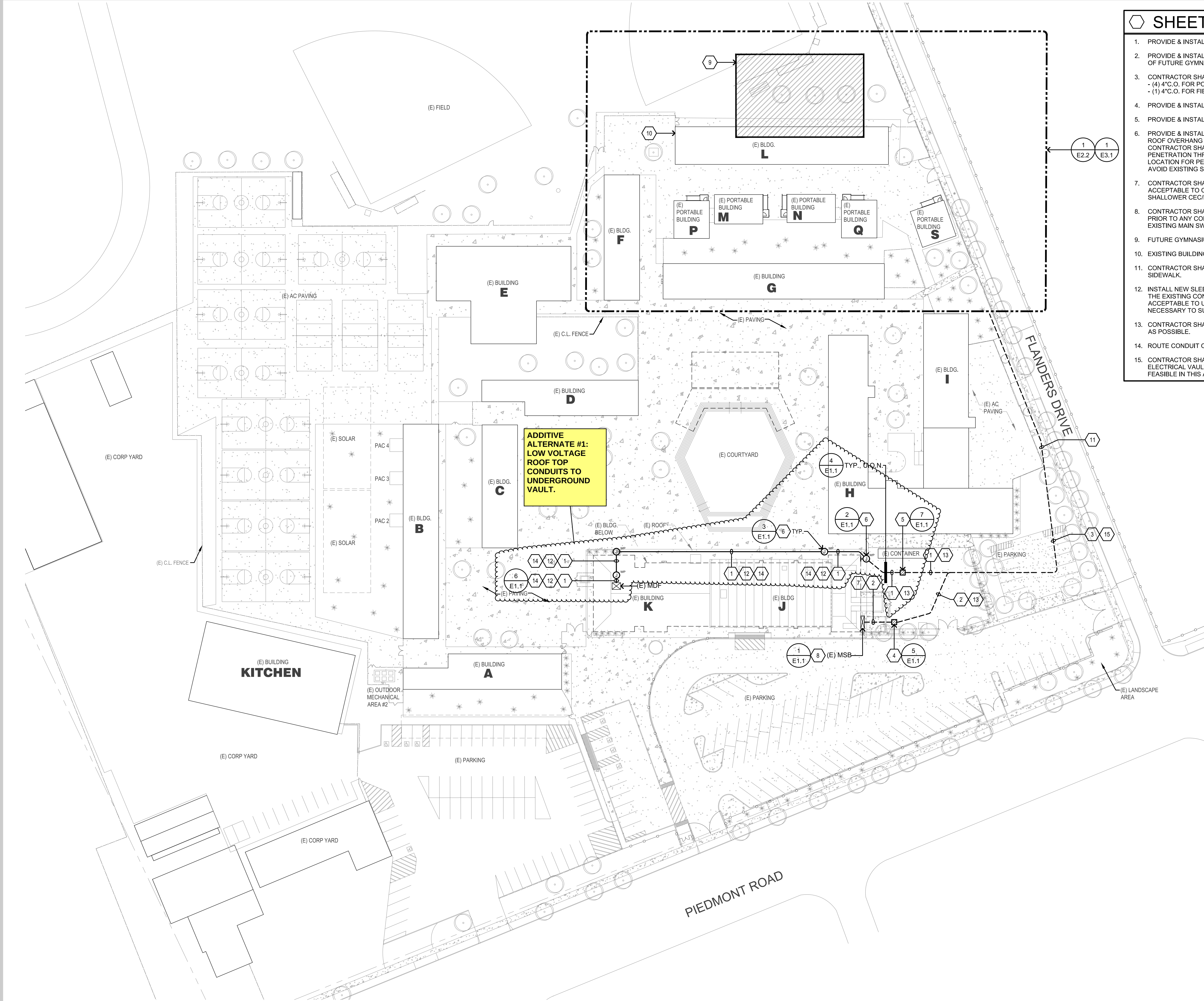


DETAIL NOTES:

1. WEATHERPROOF CONDULET.
2. CONDUIT PER DRAWINGS.
3. PENETRATION FLASHING ("ROOF JACK") SET IN PREHEATED SURFACE.
4. 3" WIDE ELASTOMERIC FLASHING STRIP OR NON-HARDENING MASTIC.
5. STAGGERED NAILING.
6. MOPPED HOT TAR.
7. PROVIDE FIRE STOPPING MATERIAL SIMILAR TO U.L. FC 1002 REQUIREMENTS.

6 CONDUIT PENETRATION

NO SCALE



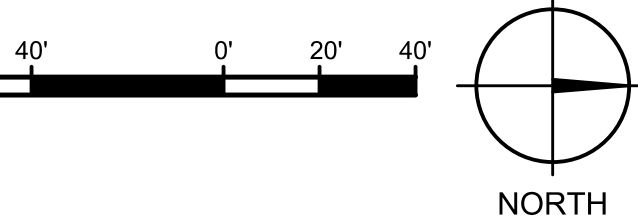
SHEET NOTES

1. PROVIDE & INSTALL (1) 4" C.O. FOR FIBER OPTIC CABLE.
2. PROVIDE & INSTALL (4) 4"C.O. FROM EXISTING MAIN SWITCHBOARD "MSB" TO NEARBY LOCATION OF FUTURE GYMNASIUM.
3. CONTRACTOR SHALL DIRECTIONAL BORE FOR:
 - (4) 4"C.O. FOR POWER
 - (1) 4"C.O. FOR FIBER OPTIC.
4. PROVIDE & INSTALL 4' x 6' IN-GRADE VAULT WITH TRAFFIC RATED LID LABELED "ELECTRICAL".
5. PROVIDE & INSTALL CHRISTY #B2436 PULLBOX WITH TRAFFIC RATED LID LABELED "SYSTEMS".
6. PROVIDE & INSTALL 36" SQ. x 8' DEEP, NEMA 3R PULLCAN, ROUTE CONDUIT THROUGH THE ROOF OVERHANG DOWN THE EXTERIOR WALL OF EXISTING BUILDING INTO THE PULLCAN. CONTRACTOR SHALL AVOID EXISTING JOISTS AND STRUCTURAL COMPONENTS AT PENETRATION THROUGH OVERHANG. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION FOR PENETRATION OF OVERHANG TO ALLOW FOR NEW CONDUIT INSTALL AND AVOID EXISTING SURFACE CONDUITS/BOXES PRESENT ALONG THE BUILDING EXTERIOR WALL.
7. CONTRACTOR SHALL MAINTAIN MINIMUM CEC/NEC DEPTHS. WHERE NECESSARY, IT IS ACCEPTABLE TO CONCRETE SLURRY OVER NEW FEEDER CONDUITS TO MAINTAIN A SHALLOWER CEC/NEC ALLOWED DEPTH.
8. CONTRACTOR SHALL CORE THROUGH EXISTING MAIN SWITCHBOARD CONCRETE PAD, X-RAY PRIOR TO ANY CORE THROUGH PAD. NEW 4"C.O. SHALL BE INSTALLED OUT/UNDER THE EXISTING MAIN SWITCHBOARD.
9. FUTURE GYMNASIUM BUILDING (N.I.C).
10. EXISTING BUILDING TO BE DEMOLISHED IN FUTURE (N.I.C).
11. CONTRACTOR SHALL ENSURE DIRECTIONAL BORE TO OCCUR IN DIRT AREA, NOT UNDER OR IN SIDEWALK.
12. INSTALL NEW SLEEPER AS NOTED FOR CONDUIT SUPPORT. WHERE CONTRACTOR OBSERVES THE EXISTING CONDUIT SUPPORTS ON ROOF IS FEASIBLE FOR USE/SUPPORTING NEW 4"C., IT IS ACCEPTABLE TO USE EXISTING SUPPORTS AND INSTALL ADDITIONAL CONDUIT STRAPS AS NECESSARY TO SUPPORT NEW CONDUIT.
13. CONTRACTOR SHALL DIRECTIONAL BORE WHERE FEASIBLE AND AS CLOSE TO BUILDING/MSB AS POSSIBLE.
14. ROUTE CONDUIT OVER MAIN ROOF/LOWER ROOF ALONG EXISTING CONDUIT PATH.
15. CONTRACTOR SHALL ACCOUNT FOR AS PART OF BASE BID ADDITIONAL SYSTEMS AND ELECTRICAL VAULTS/BOXES AS NECESSARY WHERE DIRECTIONAL BORE SWEEP IS NOT FEASIBLE IN THIS AREA.

NOTES:

- A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.
- B. ALL UTILITIES (PG&E, AT&T AND CATV) ARE SHOWN IN SCHEMATIC FORM ONLY. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH UTILITY COMPANY ENGINEERED DRAWINGS PRIOR TO START OF CONSTRUCTION AND PROVIDE FACILITIES ACCORDINGLY.
- C. CONTRACTOR SHALL REPAIR/REFINISH SURFACE WHERE TRENCHING OCCURS TO EQUAL OR BETTER THAN EXISTING CONDITIONS.
- D. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.
- E. CONTRACTOR SHALL REPAIR EXISTING LANDSCAPE AND HARDSCAPE SURFACES TO EQUAL OR BETTER THAN EXISTING CONDITION FOR ALL NEW TRENCH WORK.
- F. CONTRACTOR SHALL BORE AND AVOID EXISTING TREE ROOTS AS NECESSARY TO AVOID ANY DAMAGE TO EXISTING TREE ROOTS.

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



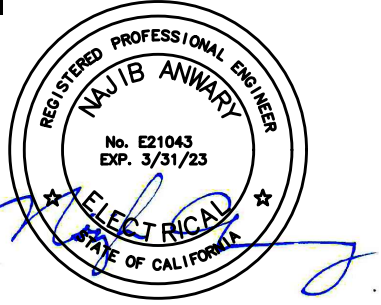
Regulatory Agency Approval

DSA: 01 -xxxxxx / File: 43-7



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Engineer Seal



Architect Seal

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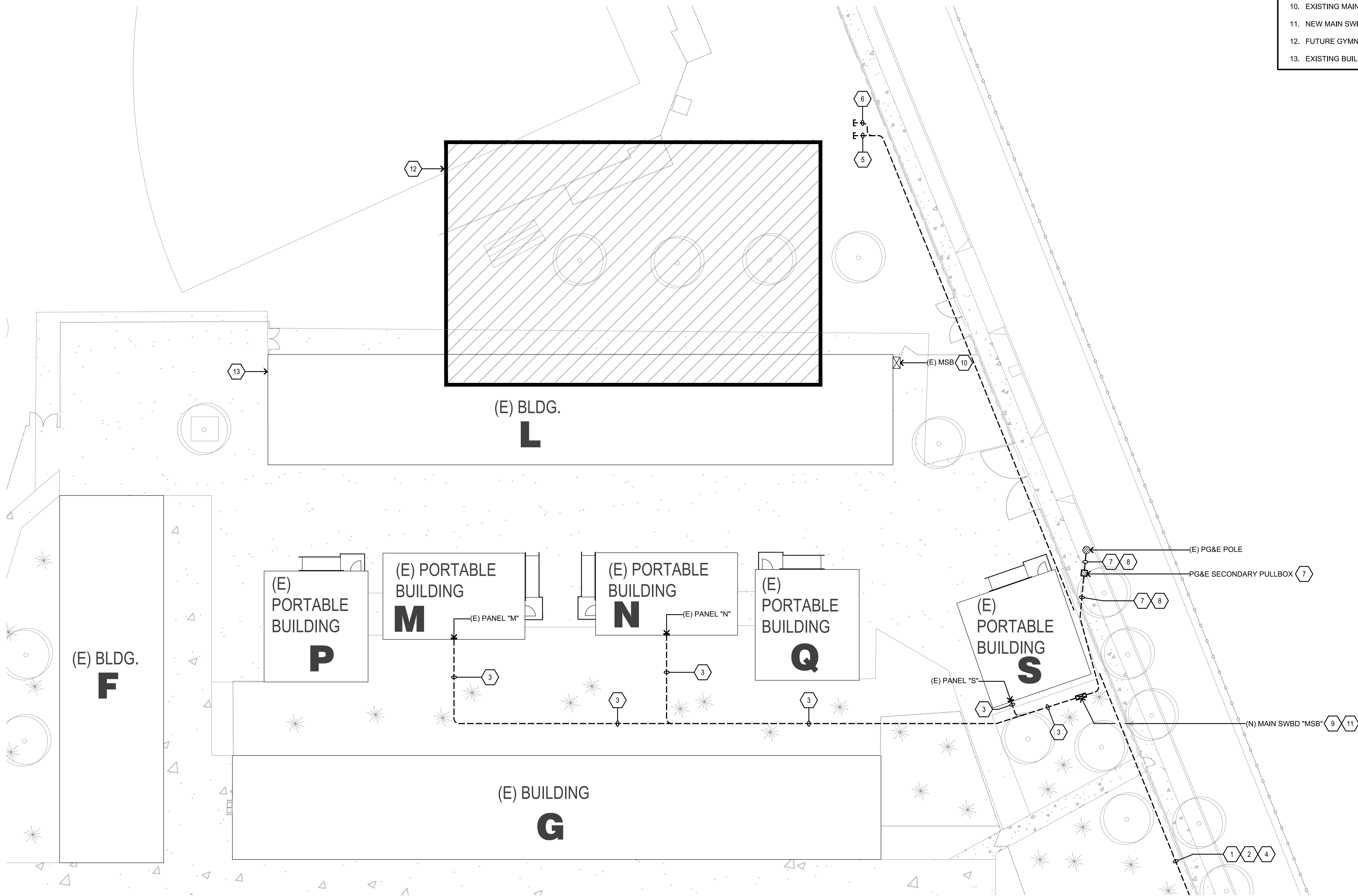
No	Revisions/Submissions	Date

Drawing Title

OVERALL ELECTRICAL SITE PLAN

Project No. 2106 Date April 28, 2022

CD Drawing Number E2.1



SHEET NOTES

- SEE 1/E2.1 FOR CONTINUATION.
- CONTRACTOR SHALL DIRECTIONAL BORE FOR:
 - (4) 4" C.O. FOR POWER
 - (1) 4" C.O. FOR FIBER OPTIC.
- PROVIDE & INSTALL FEEDER FROM NEW MAIN SWITCHBOARD "MSB" TO EXISTING PORTABLE PANELS (N.I.C).
- CONTRACTOR SHALL ENSURE DIRECTIONAL BORE TO OCCUR IN DIRT AREA, NOT UNDER OR IN SIDEWALK.
- CONTRACTOR SHALL DIRECTIONAL BORE FOR (4) 4" C.O. FOR POWER, STUB UP CONDUIT OUT OF GROUND AND TAG/CAP FOR FUTURE EXTENSION.
- CONTRACTOR SHALL DIRECTIONAL BORE FOR (1) 4" C.O. FOR FIBER OPTIC, STUB UP CONDUIT OUT OF GROUND AND TAG/CAP FOR FUTURE EXTENSION.
- PER PG&E RULES, REGULATIONS, AND STANDARDS (N.I.C).
- PROVIDE & INSTALL PG&E SECONDARY TO NEW MAIN SWITCHBOARD "MSB" (N.I.C).
- PROVIDE & INSTALL FEEDER FROM NEW MAIN SWITCHBOARD "MSB" TO EXISTING PORTABLE PANELS (N.I.C).
- EXISTING MAIN SWITCHBOARD TO BE DEMOLISHED IN FUTURE WORK (N.I.C).
- NEW MAIN SWITCHBOARD TO BE INSTALLED TO REPLACE EXISTING IN FUTURE WORK (N.I.C).
- FUTURE GYMNASIUM BUILDING (N.I.C).
- EXISTING BUILDING TO BE DEMOLISHED IN FUTURE WORK (N.I.C).

NOTES:

- A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.
- B. ALL UTILITIES (PG&E, AT&T AND CATV) ARE SHOWN IN SCHEMATIC FORM ONLY. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH UTILITY COMPANY ENGINEERED DRAWINGS PRIOR TO START OF CONSTRUCTION AND PROVIDE FACILITIES ACCORDINGLY.
- C. CONTRACTOR SHALL REPAIR/REFINISH SURFACE WHERE TRENCHING OCCURS TO EQUAL OR BETTER THAN EXISTING CONDITIONS.
- D. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.
- E. CONTRACTOR SHALL REPAIR EXISTING LANDSCAPE AND HARDSCAPE SURFACES TO EQUAL OR BETTER THAN EXISTING CONDITION FOR ALL NEW TRENCH WORK.
- F. CONTRACTOR SHALL BORE AND AVOID EXISTING TREE ROOTS AS NECESSARY TO AVOID ANY DAMAGE TO EXISTING TREE ROOTS.

Regulatory Agency Approval

DSA: 01 -xxxxxx / File: 43-7

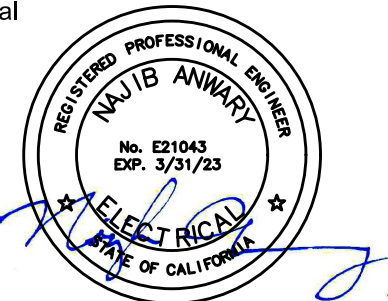


Project No. 21-519.00

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Engineer Seal



Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
CONDUIT RACEWAY PROJECT

Client

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT RD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date

Drawing Title

PARTIAL ELECTRICAL SITE PLAN

Project No.
2106

Date
April 28, 2022

CD

Drawing Number

E2.2

1

PARTIAL ELECTRICAL SITE PLAN

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

16' 0' 4' 8' 12' 16'

