PIEDMONT MIDDLE SCHOOL

NEW MODULAR GYMNASIUM & SITE WORK

INCREMENT 1

955 PIEDMONT ROAD SAN JOSE, CA 95132

PTN: 69377-121
FILE: 43-7
DSA #: 01-120466

ABBREVIATIONS

A/C	air conditioning	G.L.B.	glue laminated beam	RESIL.	resilient
A.C.	asphaltic concrete	GA.	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,	S.F.	square foot/feet
APPROX.	approximate		air conditioning	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.	laminate	SPAC.	spacing
CER.	ceramic	LAV.	lavatory	SPEC(S).	specification(s)
CLG.	ceiling	LB.	pound	SQ.	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.	terazzo
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.	etcetera	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	WSCT.	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	REQ'D.	required		

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

LEGEND

North Arrow
"N" Shows Project North
Arrow Shows True North

Detail
Section Identification
Sheet Where Detail Can Be Found

Section Cut
Section Identification
Sheet Where Section Can Be Found

Elevation
Section Identification
Sheet Where Elevations Can Be Found
(Shaded area indicates direction of elevation)

Door Callout

Window Callout

Dimension Type 1
Face of framing

+98.22 New Finish Grade
Shown Horizontally

+98.22 Existing Grade
Shown at 45 Degrees

Reference Point
Control Point
Datum Point

Revision
Revision Inside Cloud
Revision Number Shown Inside Triangle

Room Identification
CLASSROOM
109 9'-0"
5&6 / A8.1
Room Name
Ceiling Height from Finish Floor
Room Number
Sheet # Where Interior Elevations are Located

Dimension Type 2
Face of finish - clear dimension

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.
2. 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.
3. 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.
4. Provide special inspection per section 4-333(c).
5. Contractor, Inspector, Architect and Engineer shall submit verified reports per section 4-336 & 4-343(c).
6. 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)
7. Governing Codes: Title 24, CCR.
8. A copy of Part 1, Part 2 & Part 5 of Title 24 shall be kept and available in field during construction.
9. DSA shall be notified on start of construction per section 4-331.
10. Supervision by the Division of the State Architect (DSA) per section 4-334.
11. Separate application may be required for all N.I.C. items not part of DSA approval.
12. Refer to the DSA-103 form of required structural tests and special inspections.
13. DSA is not subject to arbitration.
14. Changes or revisions which affect access compliance are required to be submitted to DSA for approval.
15. 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, Pubic Safety, State Fire Marshal Regulations
2010 ADA Standards for accessible design

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS
(Application No. 01-120466 File No. 43-7)

X The drawings or sheets listed on the cover or index sheet
__This drawing, page of specifications/calculations

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 and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 [b])

I find that ALL consultant drawings or sheets listed on the cover or index sheet:

X is/are in general conformance with the project design, and

X has/have been coordinated with the project plans and specifications.

Kirk McKim — 10.6.2022
Signature — Date

Architect or Engineer designated to be in general responsible charge

Kirk McKim
Print Name

C-25022 — 4/30/23
License Number — Expiration Date

SHEET INDEX - SITE

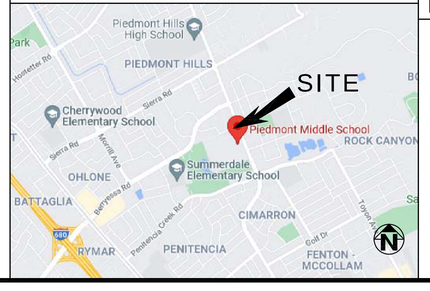
GENERAL CONSTRUCTION NOTES

1. 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.
2. 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.
3. All discrepancies between drawings shall be clarified with the architect prior to proceeding with the work.
4. 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.
5. Verify electrical, mechanical, fire alarm, telephone and security requirements before construction begins.
6. 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.
7. Contractor to coordinate with District prior to beginning work.
8. 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 non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a CCD, 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.
9. Compliance with CFC Chapter 33, fire safety during construction and demolition and CBC Chapter 33, safety during construction will be enforced.
10. Contractor shall review all T-24 Energy Compliance documents and provide all requirements of these documents. Contractor shall provide documentation that all requirements were implemented at the completion of the project.
11. Where CalGreen is noted and required as part of the project the contractor shall provide all requirements of these documents and shall provide documentation that all requirements were implemented at the completion of the project.
12. 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.

PROJECT DIRECTORY

CLIENT	BERRYESSA UNION SCHOOL DISTRICT 1376 PIEDMONT RD. SAN JOSE, CA 95132	ph. (408) 923-1800
ARCHITECT	MCKIM DESIGN GROUP 4595 CHERRY AVE. 1ST FLOOR SAN JOSE, CA 95118 KIRK S. MCKIM	ph. (408) 927-8110
CIVIL ENGINEER	C2G CIVIL CONSULTANTS GROUP, INC. 4444 SCOTTS VALLEY DRIVE, SUITE 6 SCOTTS VALLEY, CA 95006 TODD CREAMER	ph. (831) 438-4420
ELECTRICAL ENGINEER	AURUM CONSULTING ENGINEERS 1798 TECHNOLOGY DRIVE, SUITE 242 SAN JOSE, CA 95110 NAJIB ANWARY	ph. (408) 564-7925
CONSTRUCTION MANAGER	KITCHELL 99 S. ALMADEN BLVD., SUITE 600 SAN JOSE, CA 95113 MARK CASINI	ph. (408) 656-0468

VICINITY MAP



PROJECT SUMMARY

Increment 1: Site work includes, but not limited to site grading, AC and concrete paving, fencing, storm drainage system, bioretension areas and site utilities necessary to complete the Increment 2 gymnasium installation.

Increment 2: The installation of a modular gymnasium building.

DEFERRED APPROVALS

None

ALTERNATES

1. Site concrete bands in AC paving: Alternate to make these bands AC paving with decorative paint striping. Refer to site plans.

2. PGE and associated electrical work: Alternate to install and demolish electrical work associated with the PGE scope of work as noted on the electrical plans.

FLOOD HAZARD ZONE

Flood Zone: X (Area of minimal flood hazard Flood Insurance Rate Map (FIRM))

FIRE ZONE

Per local fire marshal, this site is NOT in a WUI zone. See fire access site plan.

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 47-3

McKim Design Group
4595 Cherry Avenue, First Floor, San Jose, CA 95118
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Engineer Seal

Architect Seal
LICENSED ARCHITECT
KIRK S. MCKIM
No. C-26022
REN. 4-30-23
STATE OF CALIFORNIA

Project Title
PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

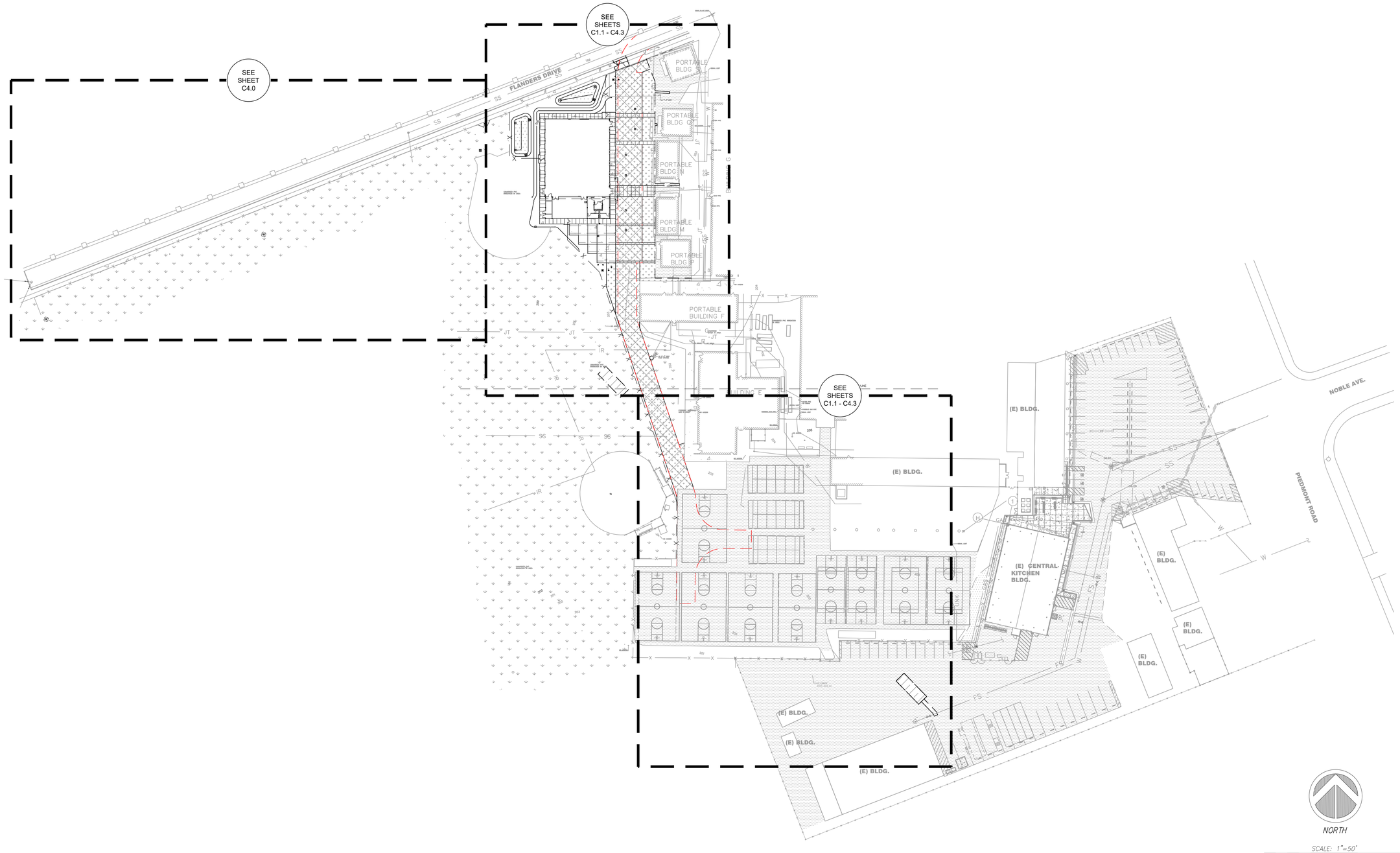
Client
BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT RD
SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title
TITLE SHEET

Project No. 2106
Date September 12, 2022

CD
Drawing Number A-0.1



Regulatory Agency Approval

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DSA: 01-120466 / File: 43-7

McKim Design Group

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4444 Scotts Valley Drive / Suite 6
Scotts Valley, CA 95066
831.438.4420

Engineer Seal

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. 24564
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

Architect Seal

Project Title

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	DSA Submittal V1	10/06/2022

Drawing Title

OVERALL SITE PLAN

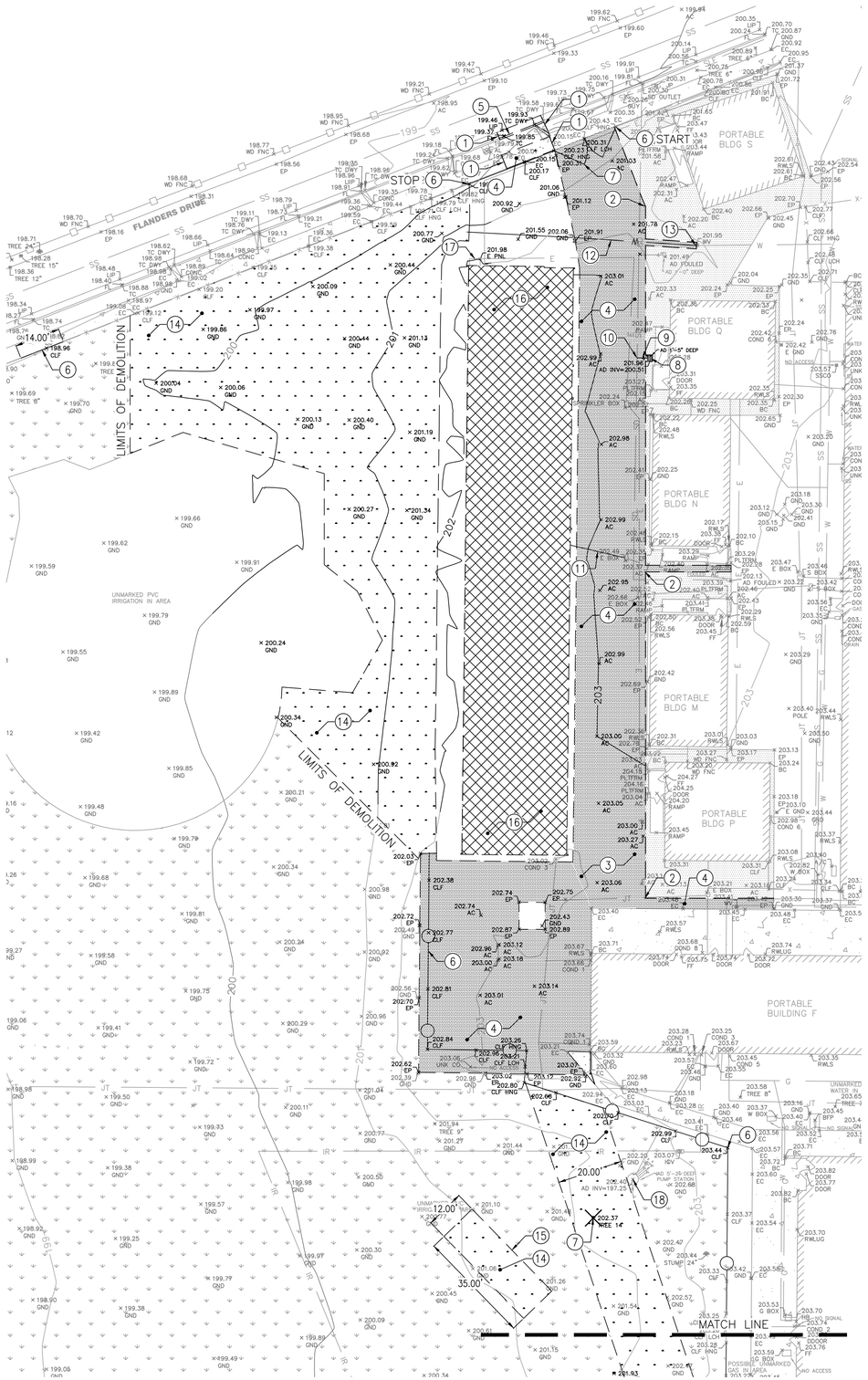
Project No.	Date
2106	September 12, 2022

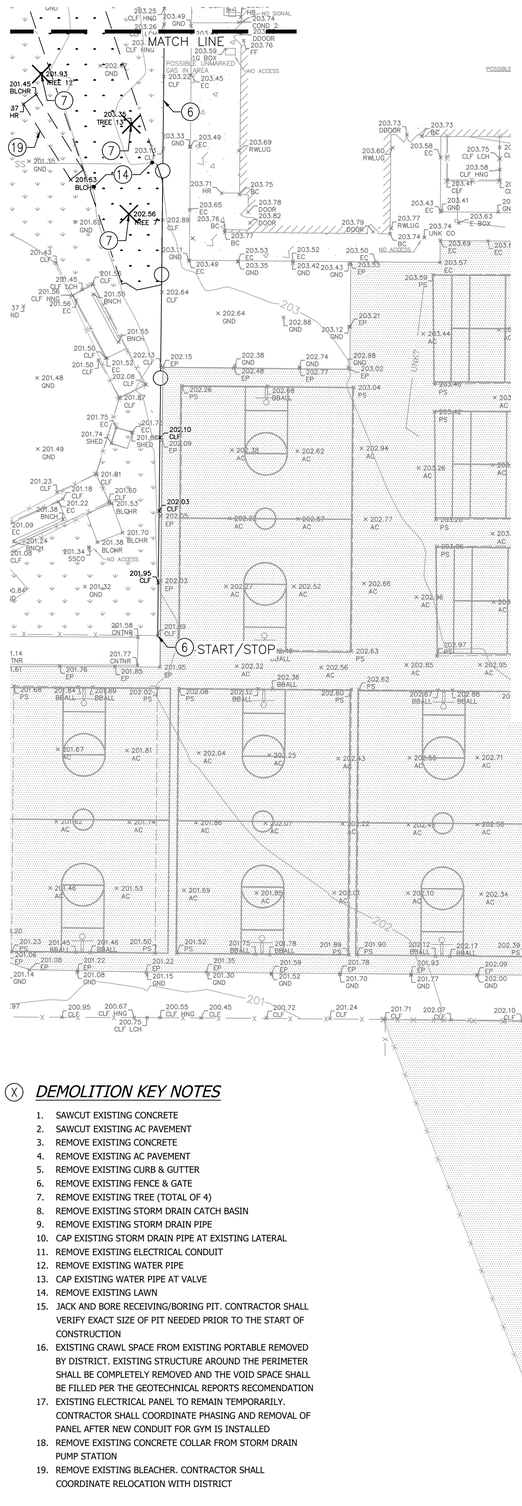
CD

Drawing Number

C0.1

USA NORTH 811
Call 811 Before You Dig





LEGEND

- EXISTING CONCRETE TO REMAIN
- EXISTING AC PAVEMENT TO REMAIN
- EXISTING CONCRETE TO BE REMOVED
- EXISTING ACEPAVMENT TO BE REMOVED
- REMOVE EXISTING TREE

ABBREVIATIONS

AC	ASPHALT CONCRETE
AD	AREA DRAIN
APN	ASSESSORS PARCEL NUMBER
BC	BUILDING CORNER
BFC	BOTTOM FACE OF CURB
BFW	BOTTOM FACE OF WALL
BLDG	BUILDING
CB	CATCH BASIN
CLF	CHAIN LINK FENCE
CO	CLEANOUT
CNDT	CONDUIT
COMM	COMMUNICATION
CONC	CONCRETE
COR	CORNER
DBL	DOUBLE
DIA	DIAMETER
EC	EDGE OF CONCRETE
EL	ELEVATION
ELEC	ELECTRIC
EP	EDGE OF PAVEMENT
EVA	EMERGENCY VEHICLE ACCESS
EX	EXISTING
FH	FIRE HYDRANT
FL	FLOWLINE
FNC	FENCE
FW	FACE OF WALL
HNG	HINGE
HV	HIGH VOLTAGE
IN	INCH
INV	INVERT
LCH	LATCH
LIP	LIP OF GUTTER
MTR	METER
NP	NO PARKING
PS	PARKING STRIPE
SDAD	STORM DRAIN AREA DRAIN
SDDI	STORM DRAIN DROP INLET
SSCO	SANITARY SEWER CLEANOUT
TC	TOP OF CURB
TYP	TYPICAL
WV	WATER VALVE
(ME)	MATCH EXISTING

SITE DEMOLITION & PREPARATION NOTES

1. PRIOR TO THE START OF DEMOLITION CORNERSTONE OR THE PROJECT GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AND BE PRESENT ON AT LEAST A PART-TIME BASIS DURING ALL BACKFILL AND MASS GRADING AS A RESULT OF DEMOLITION.
2. OTHER TYPES OF BURIED STRUCTURES MAY BE FOUND ON SITES WITH PRIOR DEVELOPMENT AND THE PROJECT GEOTECHNICAL ENGINEER SHALL BE CONTACTED TO ADDRESS THESE TYPES OF STRUCTURES ON A CASE-BY-CASE BASIS.
3. THE SITE SHOULD BE CLEARED OF EXISTING STRUCTURES, ABANDONED UTILITIES, VEGETATION, ORGANIC TOPSOIL, DEBRIS, UNDOCUMENTED LOOSE OR SOFT FILL, AND OTHER DELETERIOUS MATERIALS.
4. ALL UNDOCUMENTED FILL ENCOUNTERED PER THE GEOTECHNICAL INVESTIGATION SHALL BE COMPLETELY REMOVED FROM THE NEW BUILDING LOCATION AND TO A LATERAL DISTANCE OF 5-FEET BEYOND THE BUILDING FOOTPRINT OR TO A LATERAL DISTANCE EQUAL TO FILL DEPTH BELOW PERIMETER FOOTING, WHICHEVER IS GREATER.
5. FILL SHOULD BE COMPLETELY REMOVED FROM IMPROVEMENT AREAS FOR THE LIBRARY/KITCHEN BUILDING RENOVATIONS.
6. FILLS LOCATED IN PROPOSED PAVEMENT AND FLATWORK AREA MAT BE LEFT IN PLACE PROVIDED THEY ARE DETERMINED TO BE A LOW RISK FOR FUTURE DIFFERENTIAL SETTLEMENT AND THAT THE UPPER 12 TO 18 INCHES OF FILL BELOW PAVEMENT SUBGRADE IS RE-WORKED AND COMPACTED BE THE "COMPACTION" SECTION PROVIDED IN THE GEOTECHNICAL INVESTIGATION.
7. TO REDUCE THE POTENTIAL FOR SEISMIC/DRY SAND SETTLEMENT TO AND IMPACT THE PROPOSED BUILDING, IT IS RECOMMENDED THE SOIL WITHIN THE NEW GYMNASIUM FOOTPRINT BE OVER-EXCAVATED 3-FEET BELOW EXISTING GRADES, MOISTURE CONDITIONED, AS NEEDED, AND REPLACED IN LIFTS AND COMPACTED AS ENGINEERED FILL. REFER TO THE "COMPACTION" SECTION IN THE GEOTECHNICAL REPORT FOR COMPACTION AND MOISTURE CONDITIONING RECOMMENDATIONS.
8. AFTER SITE CLEARING AND DEMOLITION IS COMPLETE, AND PRIOR TO BACKFILLING THE EXCAVATION SUBGRADE AND SUBGRADE WITHIN AREAS TO RECIEVE ADDITIONAL FILLS, SLAB-ON-GRADE AND/OR PAVEMENTS SHALL BE SCARIFIED TO A DEPTH OF 12-INCHES, MOISTURE CONDITIONED, AND COMPACTED IN ACCORDANCE WITH THE "COMPACTION" SECTION PROVIDED IN THE GEOTECHNICAL INVESTIGATION.
9. THE GEOTECHNICAL ENGINEERS'S REPRESENT SHOULD OBSERVE AND CONFIRM THE ADEQUACY OF SITE CLEARING OPERATIONS DURING CONSTRUCTION PRIOR TO ENGINEERED FILL PLACEMENT.
10. ON-SITE SOILS HAVING AN ORGANIC CONTENT OF LESS THAN 3-PERCENT BY WEIGHT MAY BE USED AS GENERAL FILL. GENERAL FILL SHOULD NOT HAVE LUMPS, CLODS AND COBBLE PIECES LARGER THAN 6-INCHES IN DIAMETER; 85 PERCENT OF THE FILL SHOULD BE SMALLER THAN 2-1/2 INCHES IN DIAMETER.
11. DUE TO THE HIGH CLAY CONTENT AND VARIABLE PLASTICITY INDEX (PI) OF THE ON-SITE SOIL MATERIALS, IT IS NOT LIKELY THAT SUFFICIENT QUANTITIES OF NON-EXPANSIVE FILL WILL BE GENERATED FROM CUT MATERIALS

(X) DEMOLITION KEY NOTES

1. SAWCUT EXISTING CONCRETE
2. SAWCUT EXISTING AC PAVEMENT
3. REMOVE EXISTING CONCRETE
4. REMOVE EXISTING AC PAVEMENT
5. REMOVE EXISTING CURB & GUTTER
6. REMOVE EXISTING FENCE & GATE
7. REMOVE EXISTING TREE (TOTAL OF 4)
8. REMOVE EXISTING STORM DRAIN CATCH BASIN
9. REMOVE EXISTING STORM DRAIN PIPE
10. CAP EXISTING STORM DRAIN PIPE AT EXISTING LATERAL
11. REMOVE EXISTING ELECTRICAL CONDUIT
12. REMOVE EXISTING WATER PIPE
13. CAP EXISTING WATER PIPE AT VALVE
14. REMOVE EXISTING LAWN
15. JACK AND BORE RECEIVING/BORING PIT. CONTRACTOR SHALL VERIFY EXACT SIZE OF PIT NEEDED PRIOR TO THE START OF CONSTRUCTION
16. EXISTING CRAWL SPACE FROM EXISTING PORTABLE REMOVED BY DISTRICT. EXISTING STRUCTURE AROUND THE PERIMETER SHALL BE COMPLETELY REMOVED AND THE VOID SPACE SHALL BE FILLED PER THE GEOTECHNICAL REPORTS RECOMENDATION
17. EXISTING ELECTRICAL PANEL TO REMAIN TEMPORARILY. CONTRACTOR SHALL COORDINATE PHASING AND REMOVAL OF PANEL AFTER NEW CONDUIT FOR GYM IS INSTALLED
18. REMOVE EXISTING CONCRETE COLLAR FROM STORM DRAIN PUMP STATION
19. REMOVE EXISTING BLEACHER. CONTRACTOR SHALL COORDINATE RELOCATION WITH DISTRICT

USA NORTH 811 Call 811 Before You Dig

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 43-7

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Drawing Title

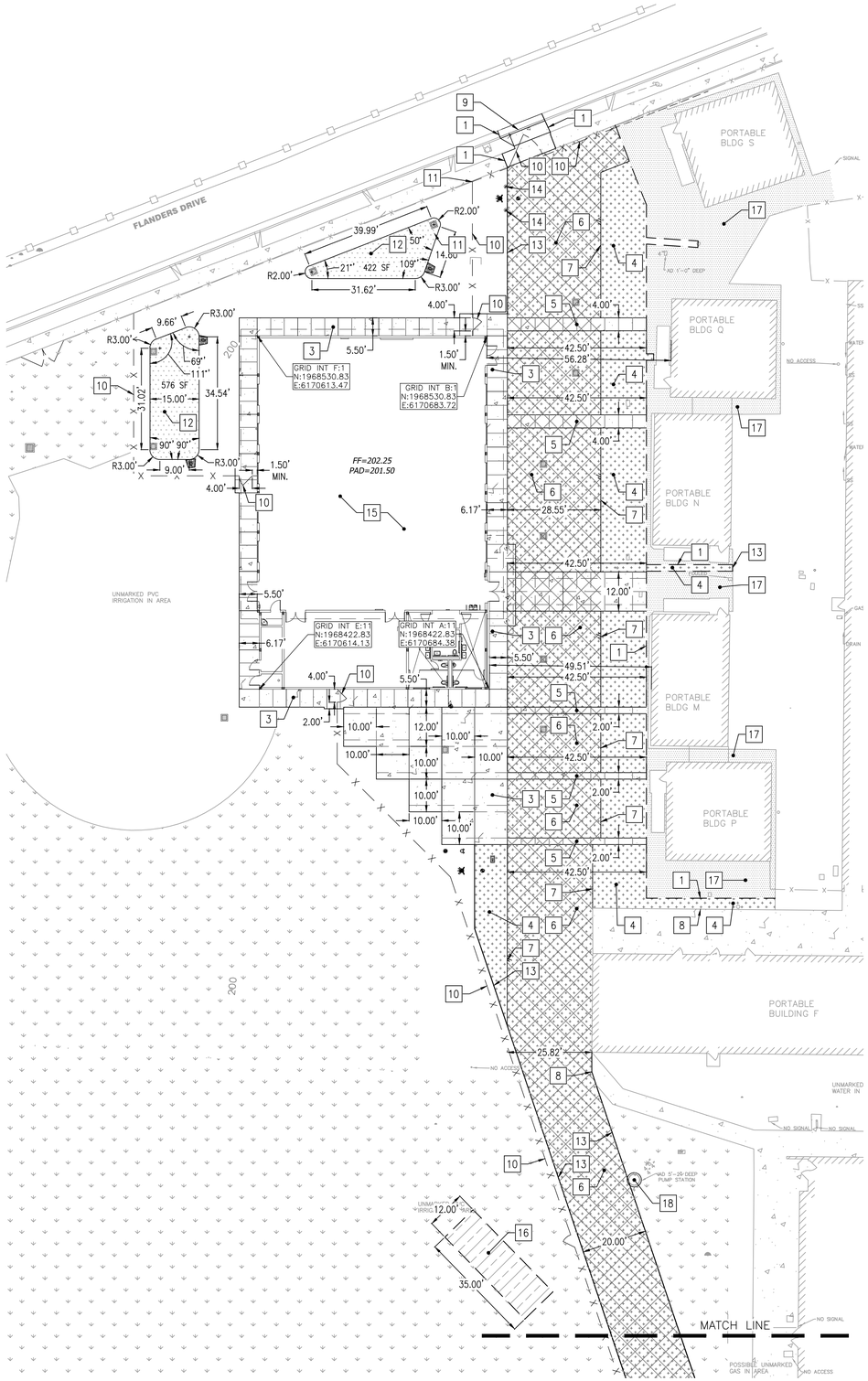
EXISTING SITE & DEMOLITION PLAN

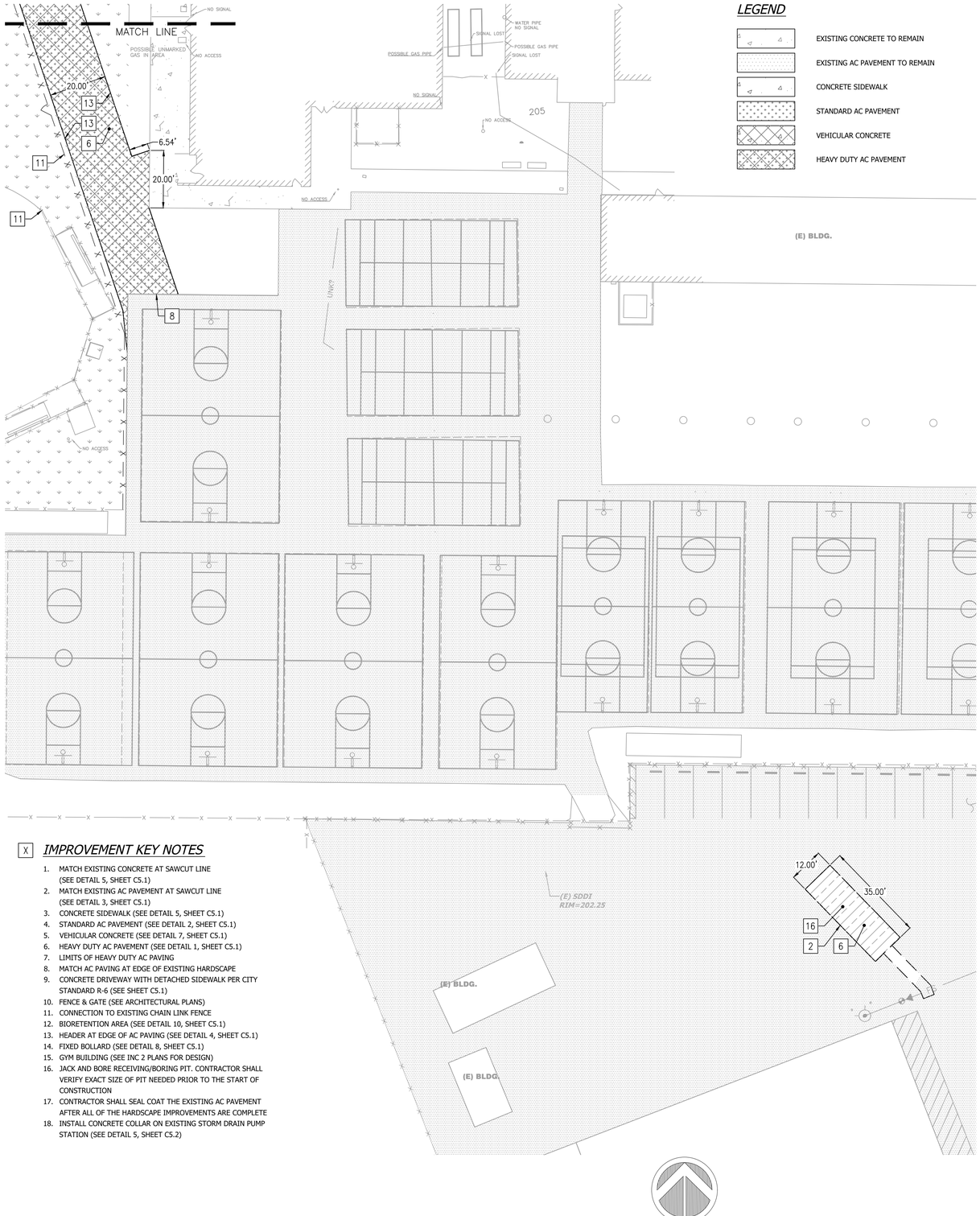
Project No. 2106

Date September 12, 2022

CD

Drawing Number C1.1





LEGEND

- EXISTING CONCRETE TO REMAIN
- EXISTING AC PAVEMENT TO REMAIN
- CONCRETE SIDEWALK
- STANDARD AC PAVEMENT
- VEHICULAR CONCRETE
- HEAVY DUTY AC PAVEMENT

X IMPROVEMENT KEY NOTES

1. MATCH EXISTING CONCRETE AT SAWCUT LINE (SEE DETAIL 5, SHEET C5.1)
2. MATCH EXISTING AC PAVEMENT AT SAWCUT LINE (SEE DETAIL 3, SHEET C5.1)
3. CONCRETE SIDEWALK (SEE DETAIL 5, SHEET C5.1)
4. STANDARD AC PAVEMENT (SEE DETAIL 2, SHEET C5.1)
5. VEHICULAR CONCRETE (SEE DETAIL 7, SHEET C5.1)
6. HEAVY DUTY AC PAVEMENT (SEE DETAIL 1, SHEET C5.1)
7. LIMITS OF HEAVY DUTY AC PAVING
8. MATCH AC PAVING AT EDGE OF EXISTING HARDSCAPE
9. CONCRETE DRIVEWAY WITH DETACHED SIDEWALK PER CITY STANDARD R-6 (SEE SHEET C5.1)
10. FENCE & GATE (SEE ARCHITECTURAL PLANS)
11. CONNECTION TO EXISTING CHAIN LINK FENCE
12. BIORETENTION AREA (SEE DETAIL 10, SHEET C5.1)
13. HEADER AT EDGE OF AC PAVING (SEE DETAIL 4, SHEET C5.1)
14. FIXED BOLLARD (SEE DETAIL 8, SHEET C5.1)
15. GYM BUILDING (SEE INC 2 PLANS FOR DESIGN)
16. JACK AND BORE RECEIVING/BORING PIT. CONTRACTOR SHALL VERIFY EXACT SIZE OF PIT NEEDED PRIOR TO THE START OF CONSTRUCTION
17. CONTRACTOR SHALL SEAL COAT THE EXISTING AC PAVEMENT AFTER ALL OF THE HARDSCAPE IMPROVEMENTS ARE COMPLETE
18. INSTALL CONCRETE COLLAR ON EXISTING STORM DRAIN PUMP STATION (SEE DETAIL 5, SHEET C5.2)

NORTH

SCALE: 1"=20'

0 20 40 60

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Engineer Seal

REGISTERED PROFESSIONAL ENGINEER — TODD R. CREAMER — Exp. 6/30/23 — CIVIL — STATE OF CALIFORNIA

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

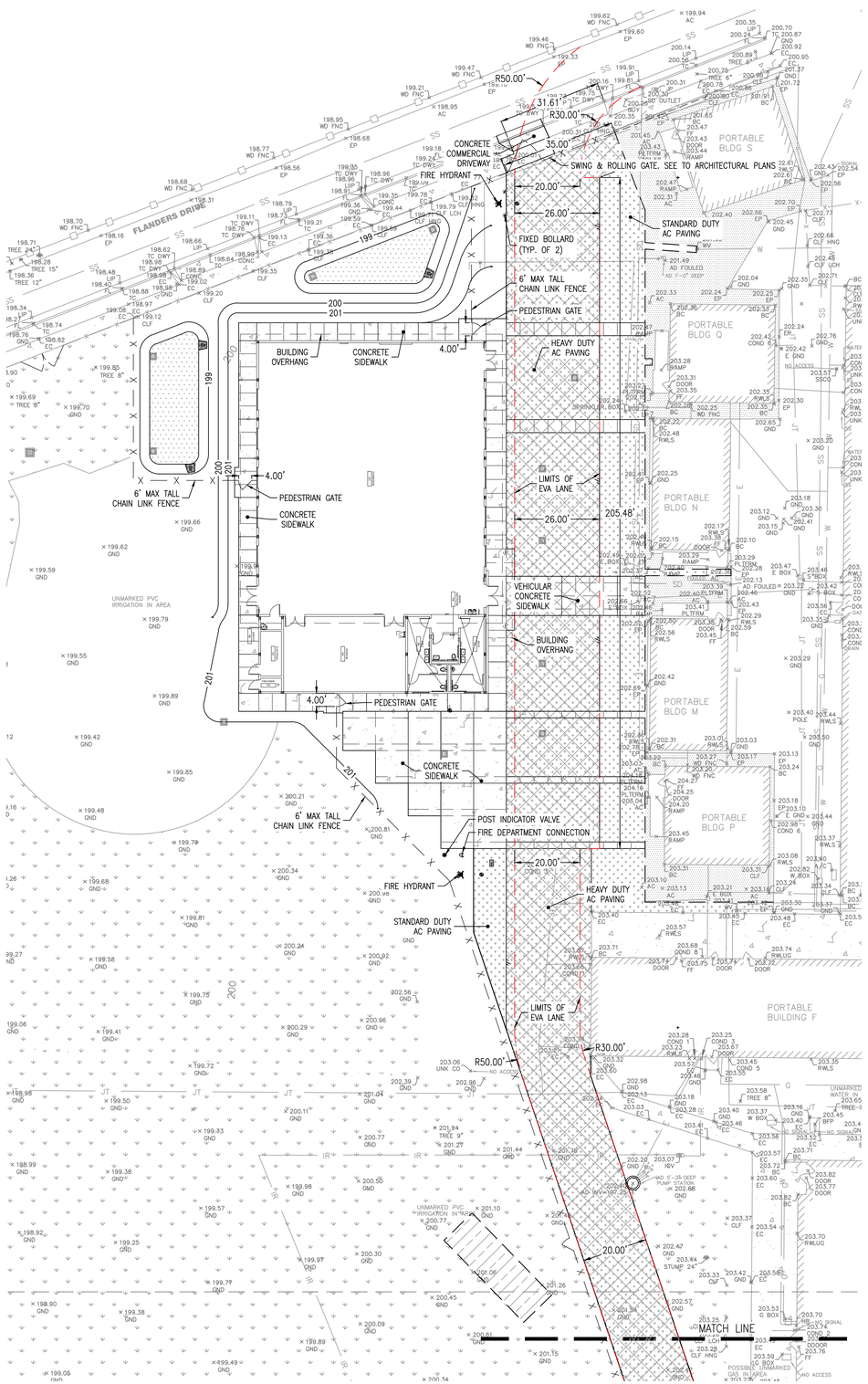
SITE IMPROVEMENT PLAN

Project No. 2106

Date September 12, 2022

CD

Drawing Number C2.1



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No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

FIRE ACCESS SITE PLAN

Project No. 2106

Date September 12, 2022

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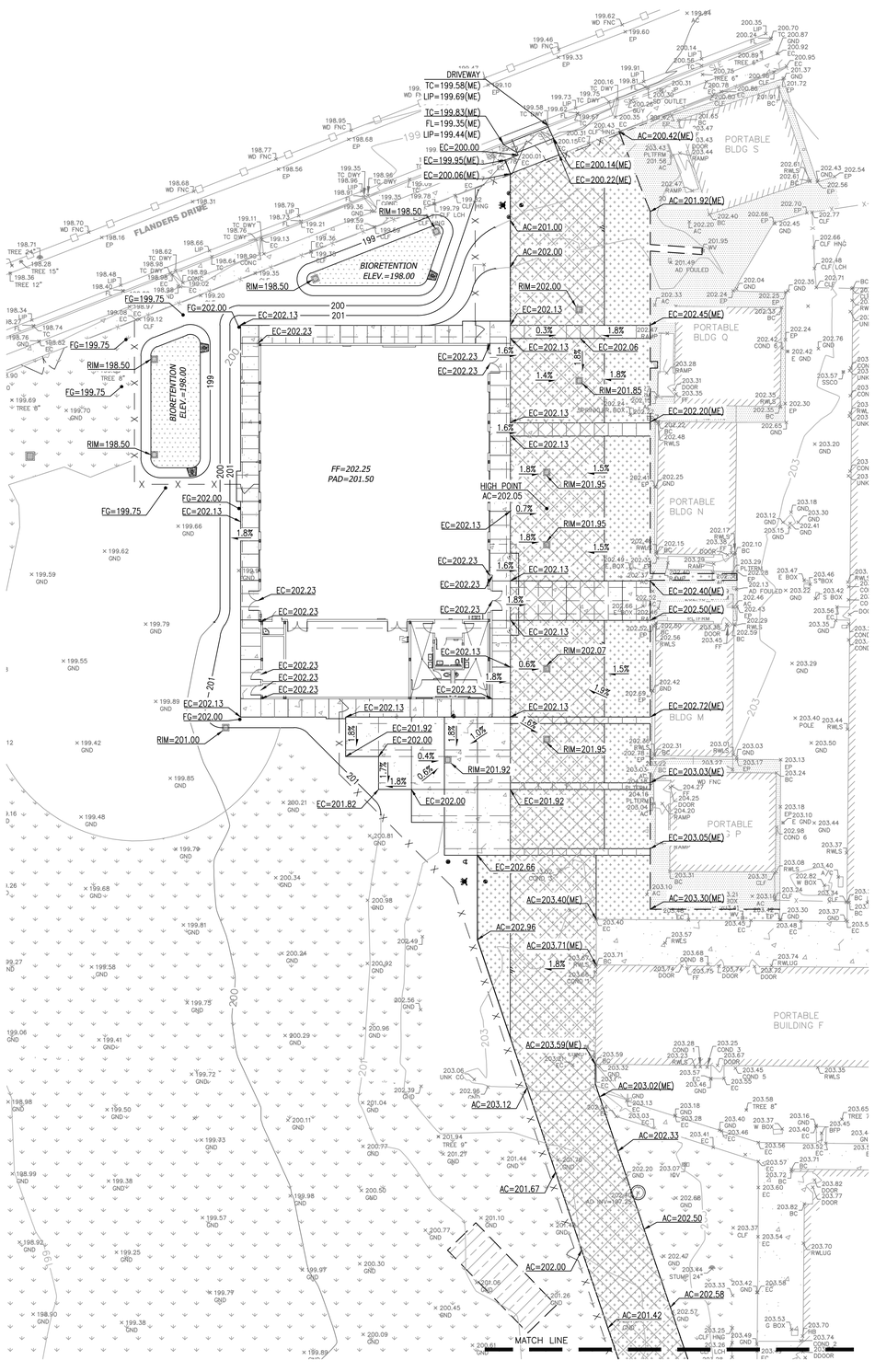
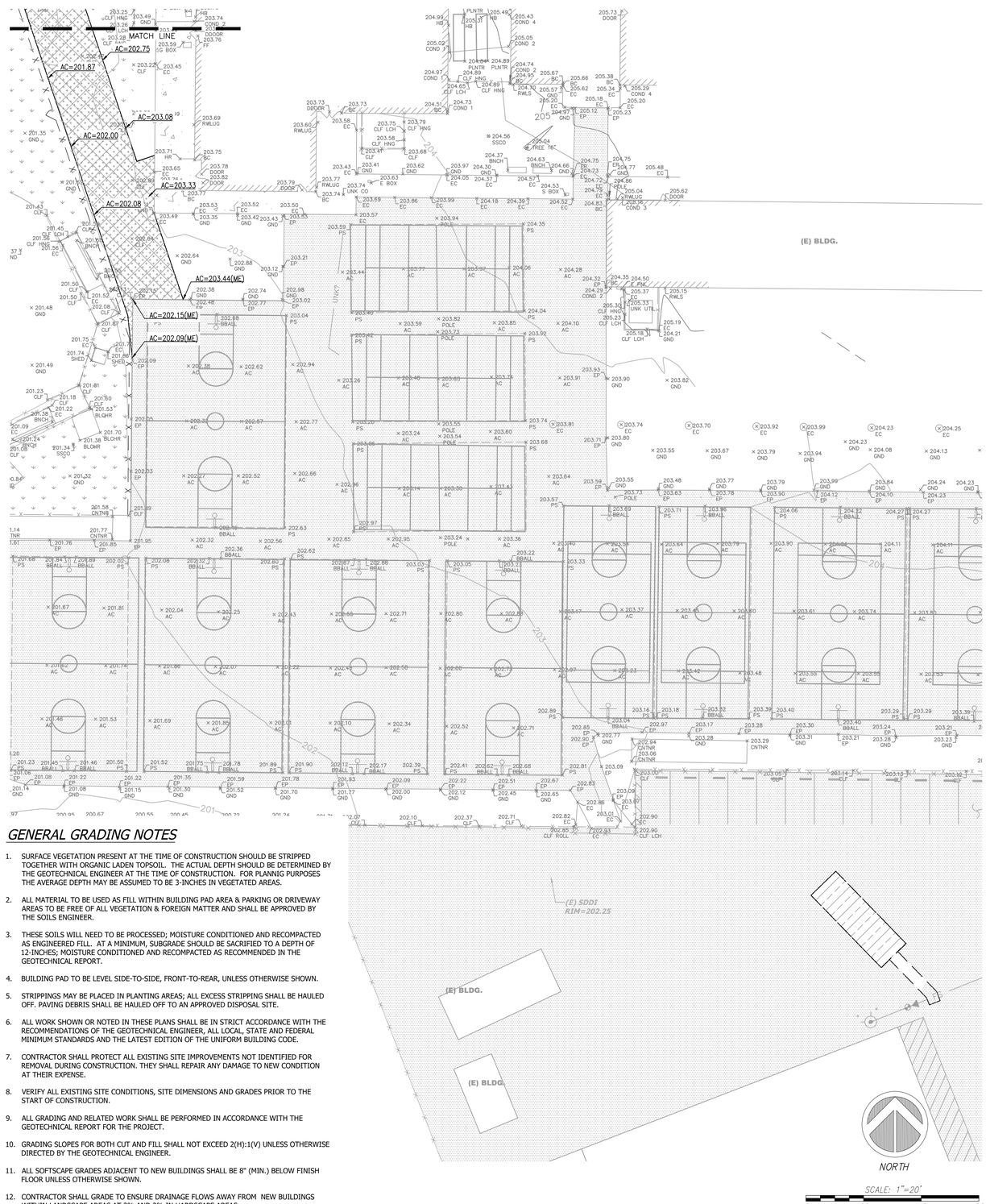
Drawing Number C2.2





GENERAL GRADING NOTES

1. SURFACE VEGETATION PRESENT AT THE TIME OF CONSTRUCTION SHOULD BE STRIPPED TOGETHER WITH ORGANIC LADEN TOPSOIL. THE ACTUAL DEPTH SHOULD BE DETERMINED BY THE GEOTECHNICAL ENGINEER AT THE TIME OF CONSTRUCTION. FOR PLANNIG PURPOSES THE AVERAGE DEPTH MAY BE ASSUMED TO BE 3-INCHES IN VEGETATED AREAS.
2. ALL MATERIAL TO BE USED AS FILL WITHIN BUILDING PAD AREA & PARKING OR DRIVEWAY AREAS TO BE FREE OF ALL VEGETATION & FOREIGN MATTER AND SHALL BE APPROVED BY THE SOILS ENGINEER.
3. THESE SOILS WILL NEED TO BE PROCESSED; MOISTURE CONDITIONED AND RECOMPACTED AS ENGINEERED FILL. AT A MINIMUM, SUBGRADE SHOULD BE SACRIFIED TO A DEPTH OF 12-INCHES; MOISTURE CONDITIONED AND RECOMPACTED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
4. BUILDING PAD TO BE LEVEL SIDE-TO-SIDE, FRONT-TO-REAR, UNLESS OTHERWISE SHOWN.
5. STRIPPINGS MAY BE PLACED IN PLANTING AREAS; ALL EXCESS STRIPPING SHALL BE HAULED OFF. PAVING DEBRIS SHALL BE HAULED OFF TO AN APPROVED DISPOSAL SITE.
6. ALL WORK SHOWN OR NOTED IN THESE PLANS SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, ALL LOCAL, STATE AND FEDERAL MINIMUM STANDARDS AND THE LATEST EDITION OF THE UNIFORM BUILDING CODE.
7. CONTRACTOR SHALL PROTECT ALL EXISTING SITE IMPROVEMENTS NOT IDENTIFIED FOR REMOVAL DURING CONSTRUCTION. THEY SHALL REPAIR ANY DAMAGE TO NEW CONDITION AT THEIR EXPENSE.
8. VERIFY ALL EXISTING SITE CONDITIONS, SITE DIMENSIONS AND GRADES PRIOR TO THE START OF CONSTRUCTION.
9. ALL GRADING AND RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT FOR THE PROJECT.
10. GRADING SLOPES FOR BOTH CUT AND FILL SHALL NOT EXCEED 2(H):1(V) UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER.
11. ALL SOFTSCAPE GRADES ADJACENT TO NEW BUILDINGS SHALL BE 8" (MIN.) BELOW FINISH FLOOR UNLESS OTHERWISE SHOWN.
12. CONTRACTOR SHALL GRADE TO ENSURE DRAINAGE FLOWS AWAY FROM NEW BUILDINGS WITHIN LANDSCAPE AREAS AT 3% AND 2% IN HARDSCAPE AREAS.
13. MINIMIZE GRADING UNDER TREE CANOPIES AND DO NOT EXPOSE EXISTING TREE ROOTS.
14. PONDING SHALL NOT OCCUR ADJACENT TOP BUILDING FOUNDATIONS, SLAB-ON-GRADE, OR PAVED AREAS.
6. CHANGES IN VERTICAL ELEVATION AT GROUND SURFACES SHALL BE MAXIMUM 1/4" (0.02') WITHOUT EDGE TREATMENT (PER CBC 11B-303.2)

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Project Title

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NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

BERRYESSA UNION SCHOOL DISTRICT
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SAN JOSE, CA 95132

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

GRADING PLAN

Project No. 2106

Date September 12, 2022

Drawing Number C3.1

CD

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LEGEND

- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- STORM DRAIN DROP INLET
- STORM DRAIN AREA DRAIN
- BIORETENTION AREA

UTILITY LINES

(E) ELECTRIC	E
(E) GAS	GAS
(E) OVERHEAD	OH
(E) STORM DRAIN	SD
(E) SANITARY SEWER	SS
(E) TELEPHONE	T
(E) WATER	W
(E) IRRIGATION	IRR
ELECTRIC	E
GAS	GAS
OVERHEAD	OH
STORM DRAIN	SD
SANITARY SEWER	SS
TELEPHONE	T
WATER	W
FIRE SUPPRESSION	FS
IRRIGATION	IRR
PERF-PIPE	PERF

UTILITY NOTE

UTILITIES SHOWN HEREON ARE BASED ON SURFACE OBSERVATIONS AND STANDARD ELECTROMAGNETIC LOCATING (EML) METHODS. A DILIGENT EFFORT WAS MADE TO FIND AND MAP ANY AND ALL UNDERGROUND UTILITIES; HOWEVER, DUE TO TECHNICAL REASONS, NO GUARANTEE, EXPRESSED OR IMPLIED, CAN BE MADE. CONTRACTOR SHALL USE APPROPRIATE MEANS TO PERFORM THEIR WORK WITHOUT DAMAGE TO EXISTING UTILITIES.

NOTE

1. SEE SHEET C4.1 FOR ADDITIONAL STORM DRAIN AND SANITARY SEWER IMPROVEMENTS
2. SEE SHEETS C4.2 & C4.3 FOR DOMESTIC WATER AND FIRE SUPPRESSION IMPROVEMENTS

STORM DRAIN NOTES (X)

1. P.O.C. TO EX. SDMH. CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATION PRIOR TO THE START OF CONSTRUCTION.
2. STORM DRAIN MANHOLE (SEE DETAILS 5 & 6, SHEET C5.2)
3. TRENCHING SHALL OCCUR OUTSIDE TREE DRIPLINE AND BE PER DETAIL 1 ON SHEET C5.2
4. CONTRACTOR SHALL REPLACE EXISTING CURB & GUTTER PER EXISTING CONDITIONS, BUT AT A MINIMUM PER CITY OF SAN JOSE STANDARD DETAIL R-1 ON SHEET C5.1

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Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

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Drawing Title

OVERALL SITE UTILITY PLAN

Project No. 2106

Date September 12, 2022

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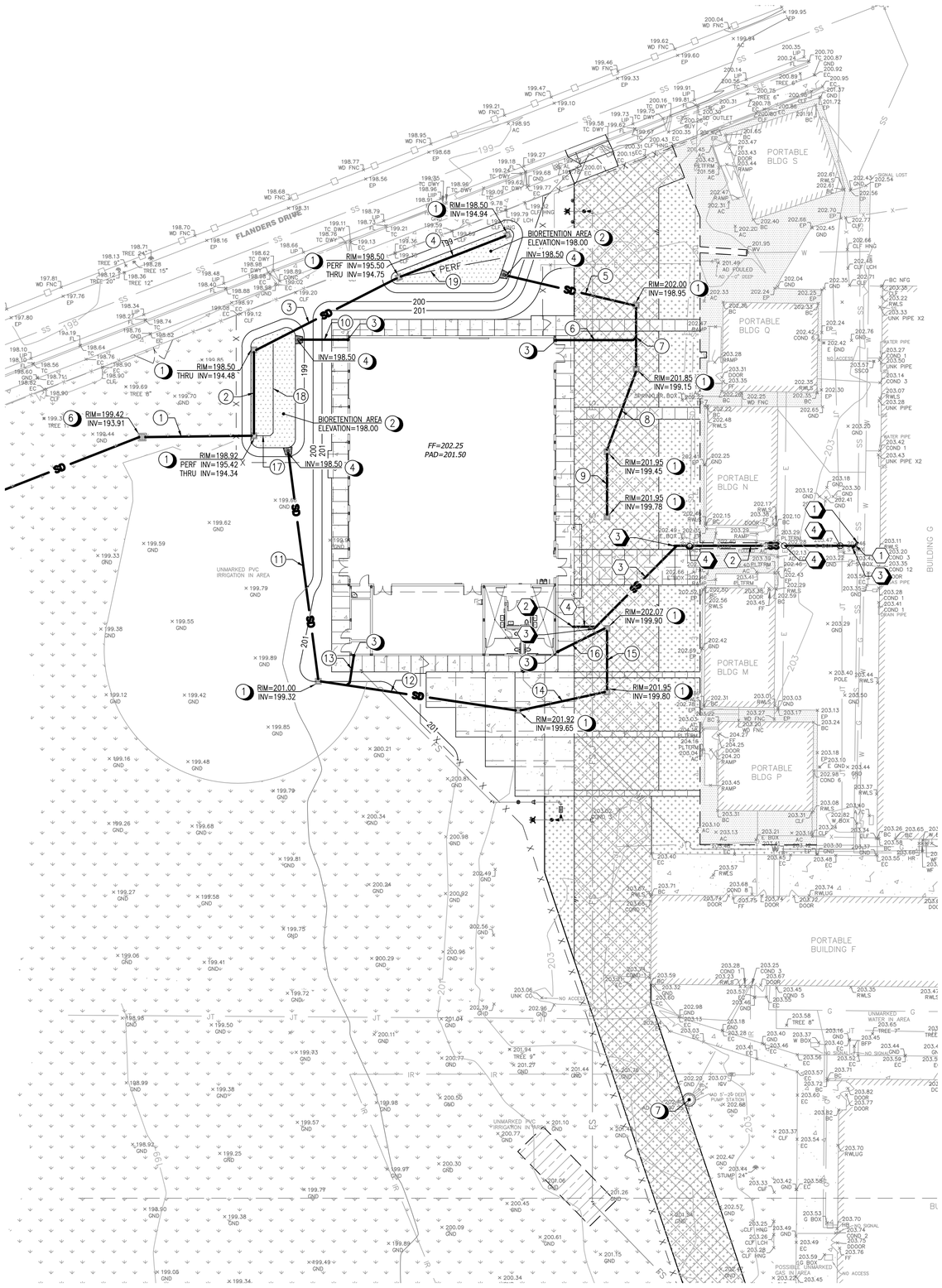
Drawing Number C4.0



STORM DRAIN PIPE DATA (X)

1. 36 LF OF 10"ø HDPE @ 1.2% SLOPE
2. 28 LF OF 8"ø HDPE @ 0.5% SLOPE
3. 54 LF OF 8"ø HDPE @ 0.5% SLOPE
4. 38 LF OF 6"ø HDPE @ 0.5% SLOPE
5. 45 LF OF 8"ø HDPE @ 0.5% SLOPE
6. 28 LF OF 4"ø HDPE @ 2.0% SLOPE MIN.
7. 21 LF OF 6"ø HDPE @ 0.5% SLOPE
8. 29 LF OF 6"ø HDPE @ 0.5% SLOPE
9. 21 LF OF 6"ø HDPE @ 0.5% SLOPE
10. 16 LF OF 4"ø HDPE @ 2.0% SLOPE MIN.
11. 77 LF OF 8"ø HDPE @ 1.1% SLOPE
12. 67 LF OF 8"ø HDPE @ 0.5% SLOPE
13. 11 LF OF 4"ø HDPE @ 2.0% SLOPE MIN.
14. 30 LF OF 6"ø HDPE @ 0.5% SLOPE
15. 20 LF OF 6"ø HDPE @ 0.5% SLOPE
16. 18 LF OF 4"ø HDPE @ 2.0% SLOPE MIN.
17. 7 LF OF 4"ø PERF-PIPE @ 0.35% SLOPE
18. 30 LF OF 4"ø PERF-PIPE @ 0.35% SLOPE
19. 34 LF OF 4"ø PERF-PIPE @ 0.35% SLOPE

SANITARY SEWER PIPE DATA (X)

1. 3 LF OF 6"ø SDR-35 @ 1.0% SLOPE MIN.
2. 61 LF OF 6"ø SDR-35 @ 1.0% SLOPE MIN.
3. 40 LF OF 6"ø SDR-35 @ 1.0% SLOPE MIN.
4. 8 LF OF 6"ø SDR-35 @ 1.0% SLOPE MIN.

BIORETENTION SOIL REQUIREMENTS

1. BIORETENTION SOIL MIX SHALL MEET THE REQUIREMENTS AS OUTLINED IN APPENDIX C OF THE C.3 STORM WATER HANDBOOK AND SHALL BE A MIXTURE OF FINE SAND AND COMPOST MEASURED ON A VOLUME BASIS OF 60-70% SAND AND 30-40% COMPOST. CONTRACTOR TO REFER TO APPENDIX C FOR SAND AND COMPOST MATERIAL SPECIFICATIONS. CONTRACTOR MAY OBTAIN A COPY OF THE C3 HANDBOOK AT : HTTPS://CLEANWATER.SCCGOV.ORG/SITES/G/FILES/EXICPB461/FILES/SCVURPPP_C.PDF
2. PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

BIORETENTION NOTES

1. SEE SITE IMPROVEMENT PLAN & GRADING PLAN FOR BASIN FOOTPRINT AND DESIGN ELEVATIONS.
2. PLACE 3 INCHES OF COMPOSTED, NON-FLOATABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS.
3. SEE LANDSCAPE PLAN FOR MULCH, PLANT MATERIALS AND IRRIGATION REQUIREMENTS
4. A MINIMUM 0.2' DROP BETWEEN STORM WATER ENTRY POINT (I.E. CURB OPENING, FLUSH CURB, ETC.) AND ADJACENT LANDSCAPE FINISHED GRADE.
5. DO NOT COMPACT NATIVE SOIL / SUBGRADE AT BOTTOM OF BASIN. LOOSEN SOIL TO 18" DEPTH.

ROUTINE MAINTENANCE ACTIVITIES FOR BIORETENTION AREAS

NO.	MAINTENANCE TASK	FREQUENCY OF TASK
1	REMOVE OBSTRUCTIONS, WEEDS, DEBRIS AND TRASH FROM BIORETENTION AREA AND ITS INLETS AND OUTLETS; AND DISPOSE OF PROPERLY.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
2	INSPECT BIORETENTION AREA FOR STANDING WATER. IF STANDING WATER DOES NOT DRAIN WITHIN 2-3 DAYS, TILL AND REPLACE THE SURFACE BIOTREATMENT SOIL WITH THE APPROVED SOIL MIX AND REPLANT.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
3	CHECK UNDERDRAINS FOR CLOGGING. USE THE CLEANOUT RISER TO CLEAN ANY CLOGGED UNDERDRAINS.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
4	MAINTAIN THE IRRIGATION SYSTEM AND ENSURE THAT PLANTS ARE RECEIVING THE CORRECT AMOUNT OF WATER (IF APPLICABLE).	QUARTERLY
5	ENSURE THAT THE VEGETATION IS HEALTHY AND DENSE ENOUGH TO PROVIDE FILTERING AND PROTECT SOILS FROM EROSION. PRUNE AND WEED THE BIORETENTION AREA. REMOVE AND/OR REPLACE ANY DEAD PLANTS.	ANNUALLY, BEFORE THE WET SEASON BEGINS
6	USE COMPOST AND OTHER NATURAL SOIL AMENDMENTS AND FERTILIZERS INSTEAD OF SYNTHETIC FERTILIZERS, ESPECIALLY IF THE SYSTEM USES AN UNDERDRAIN.	ANNUALLY, BEFORE THE WET SEASON BEGINS
7	CHECK THAT MULCH IS AT APPROPRIATE DEPTH (2 - 3 INCHES PER SOIL SPECIFICATIONS) AND REPLENISH AS NECESSARY BEFORE WET SEASON BEGINS. IT IS RECOMMENDED THAT 2" – 3" OF ARBOR MULCH BE REAPPLIED EVERY YEAR.	ANNUALLY, BEFORE THE WET SEASON BEGINS
8	INSPECT THE ENERGY DISSIPATION AT THE INLET TO ENSURE IT IS FUNCTIONING ADEQUATELY, AND THAT THERE IS NO SCOUR OF THE SURFACE MULCH. REMOVE ACCUMULATED SEDIMENT.	ANNUALLY, BEFORE THE WET SEASON BEGINS
9	INSPECT OVERFLOW PIPE TO ENSURE THAT IT CAN SAFELY CONVEY EXCESS FLOWS TO A STORM DRAIN. REPAIR OR REPLACE DAMAGED PIPING.	ANNUALLY, BEFORE THE WET SEASON BEGINS
10	REPLACE BIOTREATMENT SOIL AND MULCH, IF NEEDED. CHECK FOR STANDING WATER, STRUCTURAL FAILURE AND CLOGGED OVERFLOWS. REMOVE TRASH AND DEBRIS. REPLACE DEAD PLANTS.	ANNUALLY AT THE END OF THE RAINY SEASON, AND/OR AFTER LARGE STORM EVENTS
11	INSPECT BIORETENTION AREA USING THE ATTACHED INSPECTION CHECKLIST.	ANNUALLY, BEFORE THE WET SEASON

STORM DRAIN NOTES (X)

1. V64 DROP INLET (SEE DETAIL 3, SHEET C5.2)
2. BIORETENTION AREA (SEE DETAIL 10, SHEET C5.1)
3. P.O.C. TO RWL. (SEE INC 2 PLUMBING PLANS FOR EXACT LOCATION AND DEPTH)
4. ANGLED STORM DRAIN OUTLET WITH GROUNDED RIP-RAP (SEE DETAIL 4, SHEET C5.2)
5. STORM DRAIN MANHOLE (SEE DETAILS 5 & 6, SHEET C5.2)
6. U21 DROP INLET (SEE DETAIL 7, SHEET C5.2)
7. INSTALL CONCRETE COLLAR ON EXISTING STORM DRAIN PUMP STATION (SEE DETAIL 5, SHEET C5.2)

SANITARY SEWER NOTES (X)

1. P.O.C. TO (E) SS MAIN. CONTRACTOR SHALL POT HOLE TO VERIFY EXACT LOCATION, DEPTH, SIZE, AND MATERIAL PRIOR TO THE START OF CONSTRUCTION
2. P.O.C. TO BUILDING SEWER LATERAL (SEE INC 2 PLUMBING PLANS FOR EXACT DEPTH AND LOCATION)
3. SSCO (SEE DETAIL 2, SHEET C5.2)
4. UTILITY CROSSING. CONTRACTOR SHALL POT HOLE PRIOR TO THE START OF CONSTRUCTION TO VERIFY EXACT DEPTH AND SIZE OF UTILITY

LEGEND

- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- STORM DRAIN DROP INLET
- STORM DRAIN AREA DRAIN
- STORM DRAIN MANHOLE (SDMH)
- BIORETENTION AREA

UTILITY LINES

(E) ELECTRIC	E
(E) GAS	GAS
(E) OVERHEAD	OH
(E) STORM DRAIN	SD
(E) SANITARY SEWER	SS
(E) TELEPHONE	T
(E) WATER	W
(E) IRRIGATION	IRR
ELECTRIC	E
GAS	GAS
OVERHEAD	OH
STORM DRAIN	SD
SANITARY SEWER	SS
TELEPHONE	T
WATER	W
FIRE SUPPRESSION	FS
IRRIGATION	IRR
PERF-PIPE	PERF

UTILITY NOTE

UTILITIES SHOWN HEREON ARE BASED ON SURFACE OBSERVATIONS AND STANDARD ELECTROMAGNETIC LOCATING (EML) METHODS. A DILIGENT EFFORT WAS MADE TO FIND AND MAP ANY AND ALL UNDERGROUND UTILITIES; HOWEVER, DUE TO TECHNICAL REASONS, NO GUARANTEE, EXPRESSED OR IMPLIED, CAN BE MADE. CONTRACTOR SHALL USE APPROPRIATE MEANS TO PERFORM THEIR WORK WITHOUT DAMAGE TO EXISTING UTILITIES.

NOTE

SEE SHEET C4.2 FOR DOMESTIC WATER AND FIRE SUPPRESSION IMPROVEMENTS

NORTH

SCALE: 1"=20'

0 20 40 60

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Regulatory Agency Approval

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No	Revisions/Submissions	Date
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Drawing Title

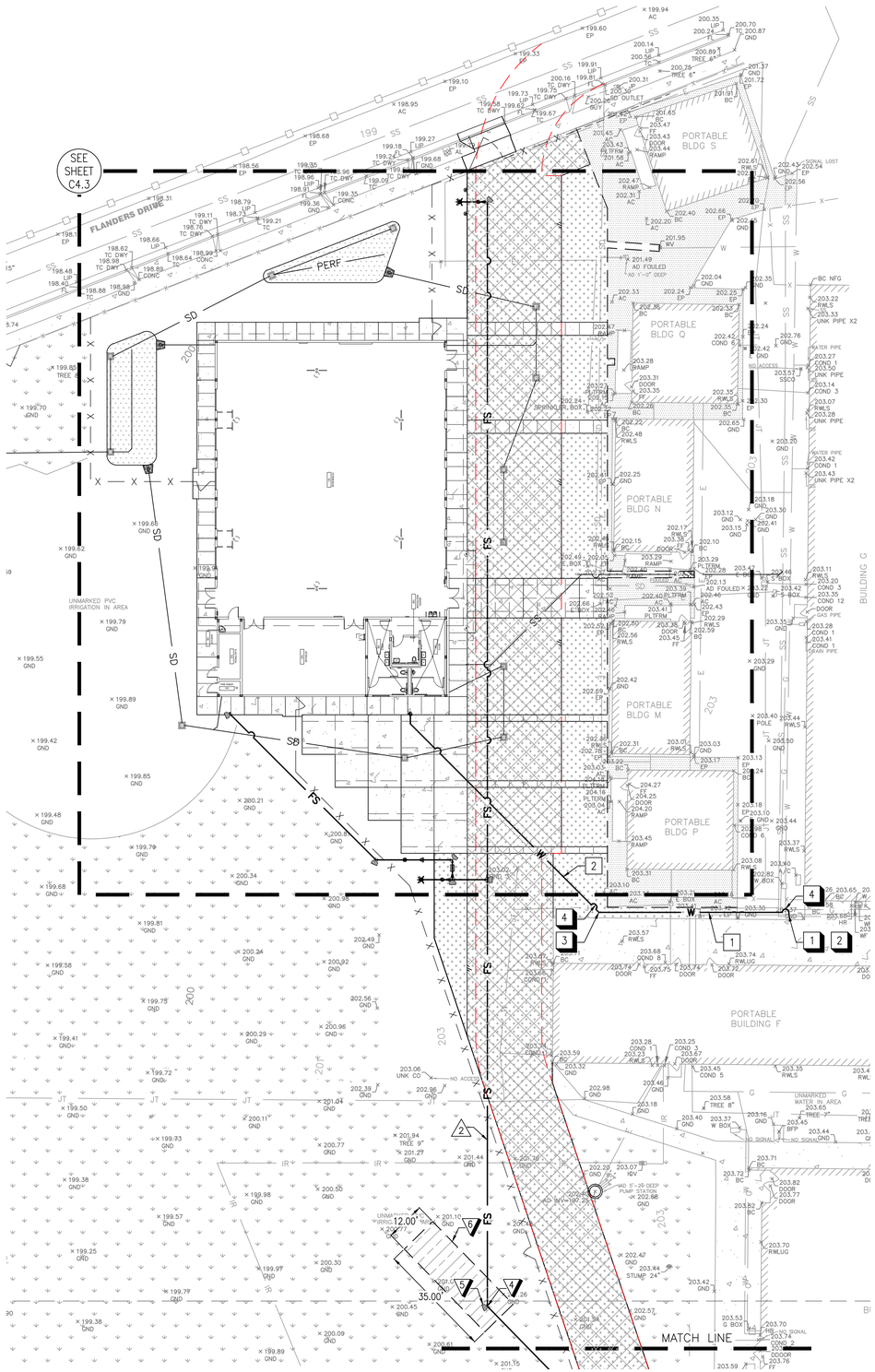
UTILITY PLAN

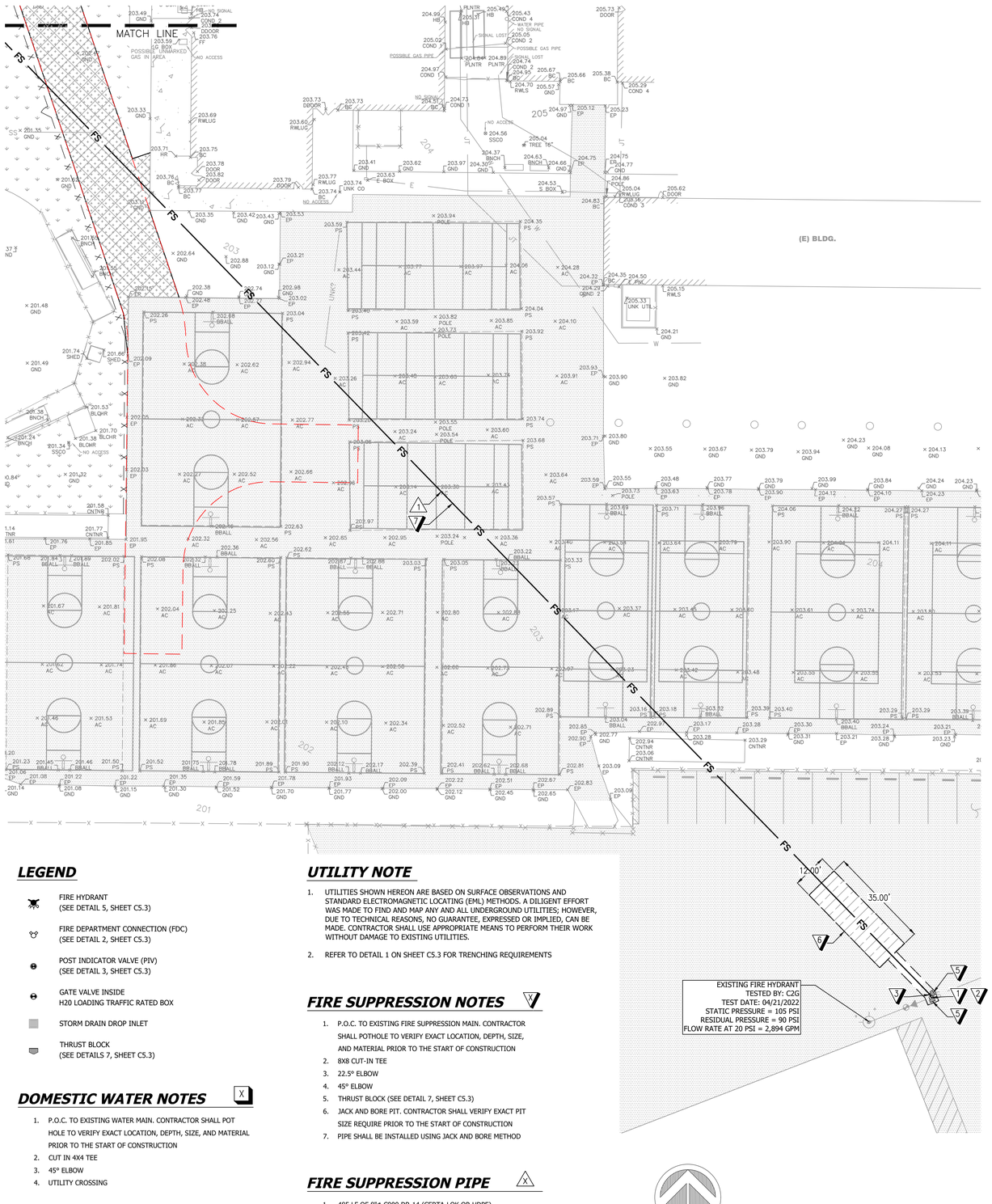
Project No. 2106

Date September 12, 2022

CD

Drawing Number C4.1





LEGEND

- FIRE HYDRANT (SEE DETAIL 5, SHEET C5.3)
- FIRE DEPARTMENT CONNECTION (FDC) (SEE DETAIL 2, SHEET C5.3)
- POST INDICATOR VALVE (PIV) (SEE DETAIL 3, SHEET C5.3)
- GATE VALVE INSIDE H20 LOADING TRAFFIC RATED BOX
- STORM DRAIN DROP INLET
- THRUST BLOCK (SEE DETAILS 7, SHEET C5.3)

DOMESTIC WATER NOTES

1. P.O.C. TO EXISTING WATER MAIN. CONTRACTOR SHALL POT HOLE TO VERIFY EXACT LOCATION, DEPTH, SIZE, AND MATERIAL PRIOR TO THE START OF CONSTRUCTION
2. CUT IN 4X4 TEE
3. 45° ELBOW
4. UTILITY CROSSING

DOMESTIC WATER PIPE

1. 58 LF OF 4"ø PVC C900 DR14
2. 81 LF OF 4"ø PVC C900 DR14

UTILITY NOTE

1. UTILITIES SHOWN HEREON ARE BASED ON SURFACE OBSERVATIONS AND STANDARD ELECTROMAGNETIC LOCATING (EML) METHODS. A DILIGENT EFFORT WAS MADE TO FIND AND MAP ANY AND ALL UNDERGROUND UTILITIES; HOWEVER, DUE TO TECHNICAL REASONS, NO GUARANTEE, EXPRESSED OR IMPLIED, CAN BE MADE. CONTRACTOR SHALL USE APPROPRIATE MEANS TO PERFORM THEIR WORK WITHOUT DAMAGE TO EXISTING UTILITIES.
2. REFER TO DETAIL 1 ON SHEET C5.3 FOR TRENCHING REQUIREMENTS

FIRE SUPPRESSION NOTES

1. P.O.C. TO EXISTING FIRE SUPPRESSION MAIN. CONTRACTOR SHALL POTHOLE TO VERIFY EXACT LOCATION, DEPTH, SIZE, AND MATERIAL PRIOR TO THE START OF CONSTRUCTION
2. 8X8 CUT-IN TEE
3. 22.5° ELBOW
4. 45° ELBOW
5. THRUST BLOCK (SEE DETAIL 7, SHEET C5.3)
6. JACK AND BORE PIT. CONTRACTOR SHALL VERIFY EXACT PIT SIZE REQUIRE PRIOR TO THE START OF CONSTRUCTION
7. PIPE SHALL BE INSTALLED USING JACK AND BORE METHOD

FIRE SUPPRESSION PIPE

1. 485 LF OF 8"ø C900 DR-14 (CERTA-LOK OR HDPE)
2. 130 LF OF 8"ø PVC C900 DR14

NORTH

SCALE: 1"=20'

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DOMESTIC WATER & FIRE SUPPRESSION PLAN

Project No. 2106

Date September 12, 2022

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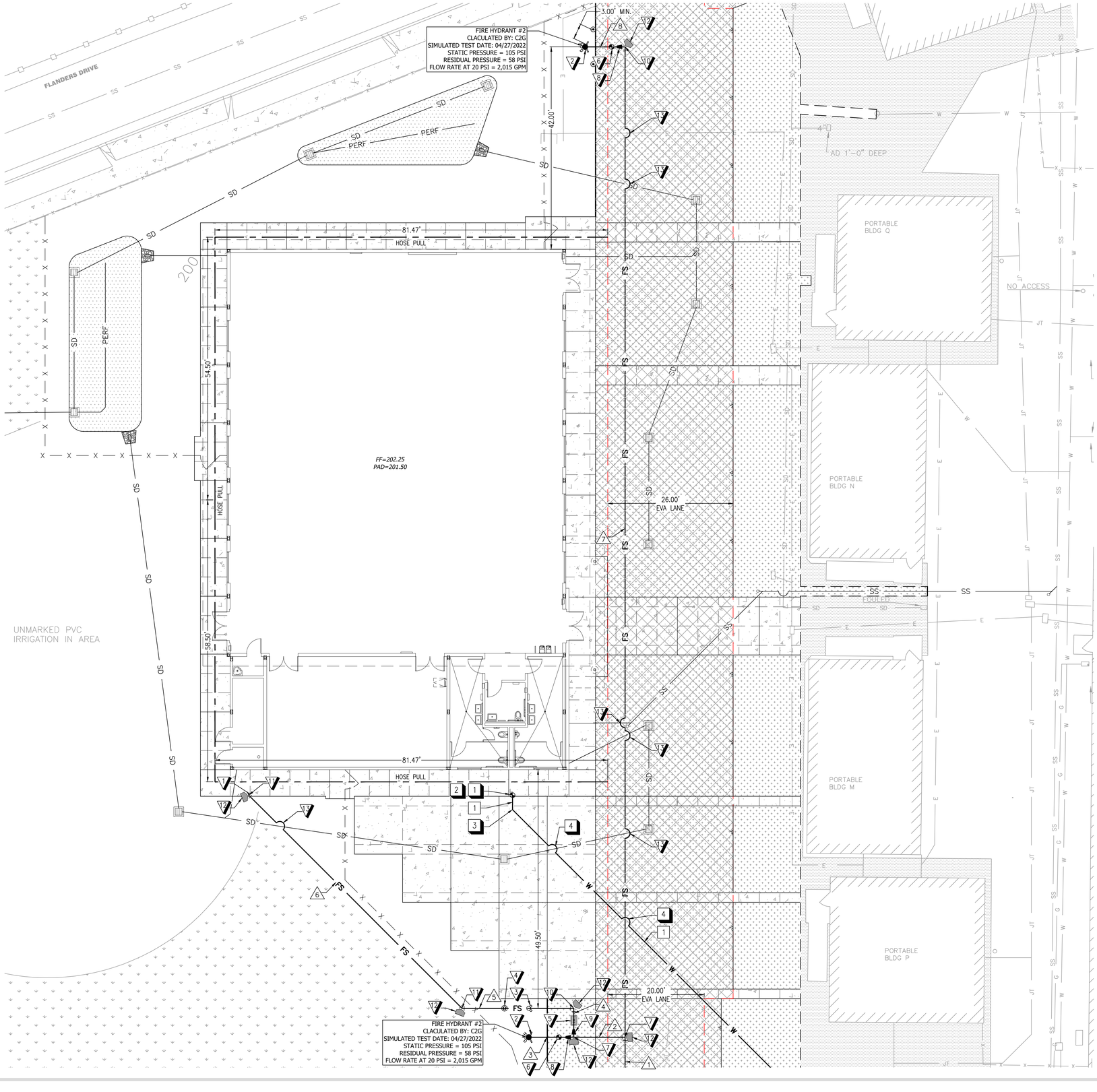

PRIVATE HYDRANTS, SPRINKLERS, AND UNDERGROUND PIPING NOTES

1. Prior to installation, all plans and specifications shall be approved by DSA. Refer to DSA IR A-25 for design, installation and maintenance general requirements
2. Inspections are required: 1) prior to pouring thrust blocks. 2) for hydrostatic testing, and 3) for flush.
3. Installation, inspection, and testing shall conform to 2019 editions CFC, NFPA 13, and NFPA 24.
4. Private fire hydrants shall be approved wet barrel style with a minimum of one 2 1/2" and one 4" outlet. The 4" outlet shall face the fire department access road. All outlets shall be provided with National Standard Threads (NST). NFPA 24, 7.1.1.2.
5. Fire hydrant supply piping shall be a minimum of six inches in diameter. The center of the hose outlet shall be not less than 18" above final grade or, where located in a hose house, 12" above the floor. NFPA 24, 7.1.1 & 7.3.3.
6. Fire hydrants shall be a minimum of 40 feet from all structures. NFPA 24, 7.2.3.
7. A keyed gate valve shall be provided for each hydrant in an accessible location. Valves shall not be located in parking stalls. NFPA 24, 7.1.1.1.
8. All piping shall be listed for use in fire protection service and comply with AWWA Standards (Class 150 minimum) Class 200 pipe shall be used where the pressure may exceed 150 psi. NFPA 24, 10.1.1.
9. All bolted joints shall be cleaned and thoroughly coated with asphalt or other corrosion retarding material after installation. NFPA 24, 10.4.1.1.
10. Backfill shall be well tamped layers to consist of 6" minimum bed of clean fill sand or pea gravel below and 12" above the pipe (total 18" minimum). NFPA 24, 10.9.1.
11. Fittings shall be of an approved type. NFPA 24, 10.2.1.
12. A minimum of 30" of cover, from finish grade to the top of the pipe, shall be provided. When surface loads are expected, a minimum of 36" cover shall be provided. NFPA 24, 10.4.2.2.2 & .3
13. Thrust blocks, or other approved method of thrust restraint, shall be provided wherever pipe changes direction. Back-fill between the joints to prevent movement of the pipe. Provide details and calculations for sizing thrust blocks base on actual soil conditions. NFPA 24, 10.6.
14. A hydrostatic test (200 psi for two hours or 50 psi over maximum static pressure, whichever is greater) shall be performed. NFPA 24, 10.10.2.2.1.
15. The system shall be thoroughly flushed before connection is made to overhead piping. Flow shall be through a minimum of 4" hose of pipe. NFPA 24, 10.10.2.1.
16. All control valves shall be locked in the open position. Valves shall be monitored if they serve 6 or more sprinkler heads. CBC/CFC 903.4.
17. All control valves shall be listed indicating type unless a non-indicating valve, such as an underground gate valve with approved roadway box complete with T-wrench, is acceptable to Authority Having Jurisdiction (AHJ). NFPA 24, 6.1.1.
18. Post indicating valves (PIV) shall be tested to insure that the "targets" (OPEN, CLOSED) are clearly identified when valve is opened and closed. NFPA 24, 10.10.1 & 14.1.
19. Tests shall be made by the installing contractor in the presence of the (AHJ). Provide a completed Contractor's Material and Test Certificate for Underground Piping to DSA. NFPA 24, 10.10.1 & 14.1, CFC 901.5 & 6.

LEGEND

- FIRE HYDRANT (SEE DETAIL 5, SHEET C5.3)
- FIRE DEPARTMENT CONNECTION (FDC) (SEE DETAIL 2, SHEET C5.3)
- POST INDICATOR VALVE (PIV) (SEE DETAIL 3, SHEET C5.3)
- GATE VALVE INSIDE H20 LOADING TRAFFIC RATED BOX
- STORM DRAIN DROP INLET
- THRUST BLOCK (SEE DETAILS 7, SHEET C5.3)

UTILITY NOTE

1. UTILITIES SHOWN HEREON ARE BASED ON SURFACE OBSERVATIONS AND STANDARD ELECTROMAGNETIC LOCATING (EML) METHODS. A DILIGENT EFFORT WAS MADE TO FIND AND MAP ANY AND ALL UNDERGROUND UTILITIES; HOWEVER, DUE TO TECHNICAL REASONS, NO GUARANTEE, EXPRESSED OR IMPLIED, CAN BE MADE. CONTRACTOR SHALL USE APPROPRIATE MEANS TO PERFORM THEIR WORK WITHOUT DAMAGE TO EXISTING UTILITIES.
2. REFER TO DETAIL 1 ON SHEET C5.3 FOR TRENCHING REQUIREMENTS

DOMESTIC WATER NOTES [X]

1. P.O.C. TO BUILDINGS WATER SERVICE (SEE INC 2 PLUMBING PLANS FOR EXACT LOCATION AND DEPTH)
2. GATE VALE
3. 45° ELBOW
4. UTILITY CROSSING

FIRE SUPPRESSION NOTES [V]

1. P.O.C. TO BUILDING FIRE SPRINKLER RISER (SEE INC 2 PLUMBING PLANS FOR CONTINUATION)
2. FIRE HYDRANT - (SEE DETAIL 5, SHEET C5.3)
3. FIRE DEPARTMENT CONNECTION (FDC) - (SEE DETAIL 2, SHEET C5.3)
4. POST INDICATOR VALE (PIV) - (SEE DETAIL 3, SHEET C5.3)
5. CHECK VALVE WITH UTILITY BOX- (SEE DETAIL 4, SHEET C5.3)
6. GATE VALVE INSIDE H20 LOADING TRAFFIC RATED BOX
7. 8X8 TEE
8. 8X6 REDUCER
9. 8X4 REDUCER
10. 90° ELBOW
11. 45° ELBOW
12. THRUST BLOCK (SEE DETAIL 7, SHEET C5.3)
13. UTILITY CROSSING. CONTRACTOR SHALL POTHOLE PRIOR TO THE START OF CONSTRUCTION TO VERIFY EXACT DEPTH AND SIZE OF UTILITY

DOMESTIC WATER PIPE [X]

1. 81 LF OF 4"ø PVC C900 DR14
2. 3 LF OF 4"ø PVC C900 DR14

FIRE SUPPRESSION PIPE [X]

1. 130 LF OF 8"ø PVC C900 DR14
2. 11 LF OF 8"ø PVC C900 DR14
3. 10 LF OF 6"ø PVC C900 DR14
4. 6 LF OF 4"ø PVC C900 DR14
5. 24 LF OF 4"ø PVC C900 DR14
6. 63 LF OF 4" PVC C900 DR14
7. 206 LF OF 8" PVC C900 DR14
8. 9 LF OF 6" PVC C900 DR14

NORTH

SCALE: 1"=10'

0 10 20 30

USA NORTH 811 Call 811 Before You Dig

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 43-7

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Engineer Seal

REGISTERED PROFESSIONAL ENGINEER
RICHARD R. CREAMER
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

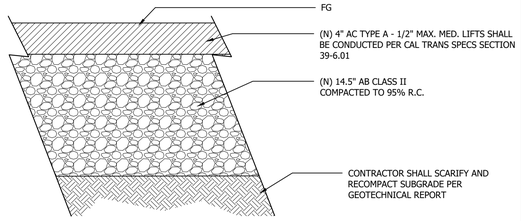
DOMESTIC WATER & FIRE SUPPRESSION PLAN

Project No. 2106

Date September 12, 2022

Drawing Number C4.3

CD



1 "HEAVY DUTY" VEHICULAR AC PAVEMENT SECTION

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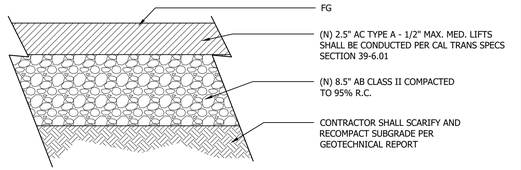

2 STANDARD AC PAVEMENT SECTION

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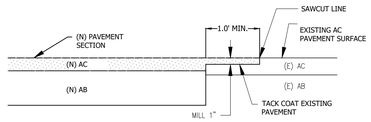
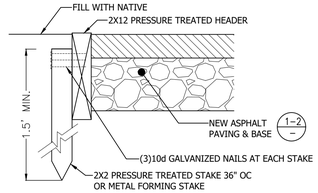


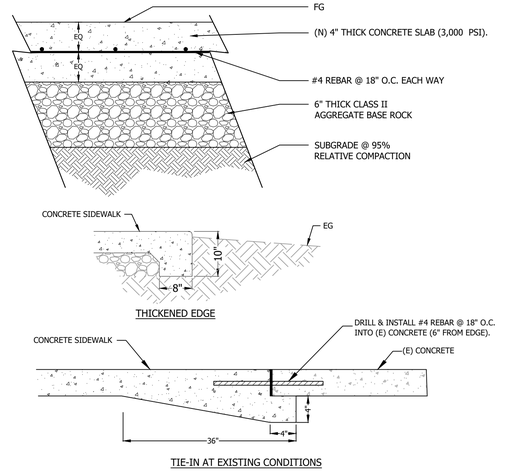
3 ASPHALT TIE-IN DETAIL

Scale: NTS



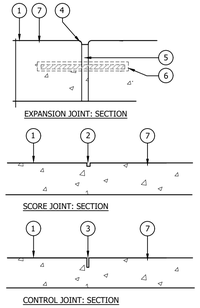
4 PRESSURE TREATED WOOD HEADER DETAIL

SCALE: NTS



5 CONCRETE SIDEWALK SECTION

Scale: NTS



LEGEND

1. FINISH SURFACE OF PAVING.
2. SCORE JOINT, TOOLED, 1/4" WIDE AND 3/8" DEEP.LOCATE PER PLAN.
3. CONTROL JOINT, TOOLED, 1/4" WIDE; DEPTH TO EQUAL 1/3 OF SLAB THICKNESS. (INCLUDING WHERE SLABS THICKEN) LOCATE PER PLAN.
4. 1/2" TOOLED EDGE AT CONCRETE PAVING.
5. 1/2" THICK EXPANSION JOINT FILLER SHALL BE ASPHALT IMPREGNATED FELT. DEPTH TO MATCH SLAB THICKNESS.
6. DOWEL ¾" SMOOTH REBAR X 12" LONG @ 18" O.C. AND 6" CLEAR FROM EDGE OF SLAB, SLIP ONE END. WHERE ABUTTING EXISTING CONCRETE, DRILL AND EPOXY DOWEL INTO EXISTING CONCRETE AND SLIP ONE END.
7. CONCRETE PAVING.

NOTES

A. CONTROL JOINTS SHALL OCCUR WHERE SHOWN ON PLAN.

B. EXPANSION JOINTS SHALL BE LOCATED WHERE CONCRETE PAVING MEETS THE BACK OF CURBS, FACE OF BUILDING OR SITE WALLS, AND WHERE SHOWN ON PLAN.

C. AT A MAXIMUM CONTROL JOINTS SHALL BE PLACED 2-FEET IN EACH DIRECTION FOR EVERY 1-INCH OF CONCRETE THICKNESS

6 JOINTS AT CONCRETE PAVING

Scale: NTS

NOTE:
1. TYPE OF CONCRETE: CLASS A
2. MINIMUM 6" CLASS 2 AB, COMPACTED PER GEOTECHNICAL REPORT.
3. SEE LANDSCAPE PLAN FOR LOCATION OF SCORING AND EXPANSION JOINTS.
4. DOWEL WITH #4 BARS, 24" LONG, AT 18" ON CENTERS, EMBEDDED 12" WITH EPOXY IN EDGE OF EXISTING CONCRETE.
5. DOWELING & REINFORCING TO BE PROVIDED AT JOINTS. SEE LANDSCAPE PLANS
6. REFER TO DETAIL 5/50.12 FOR CONCRETE REINFORCEMENT DETAILS & DEVELOPMENT LENGTHS

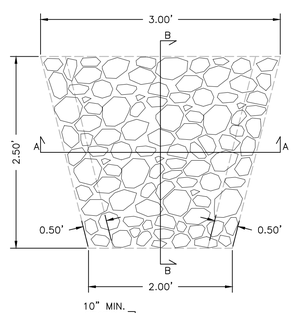
7 VEHICULAR CONCRETE

Scale: NTS

NOTES:
1. BOLLARD SHALL BE FABRICATED FROM GALVANIZED IRON PIPE (GIP), SCH. 40 STEEL PIPE OR DUCTILE IRON PIPE;
2. BOLLARD SHALL BE A MINIMUM OF 4"ø INSIDE DIAMETER
3. BOLLARDS SHALL BE PROVIDED WITH A STANDARD, MALLEABLE IRON POST TOP;
4. BOLLARD SHALL BE SET A MINIMUM OF 36" INTO CONCRETE POST FOOTING;
5. BOLLARD SHALL BE FILLED WITH CONCRETE PRIOR TO INSTALLING POST CAP. REMOVABLE BOLLARDS SHALL NOT BE CONCRETE FILLED;
6. CONCRETE SHALL BE CLASSED AS MINOR CONCRETE IN ACCORDANCE WITH SECTION 90-1.01, "DESCRIPTION" OF THE CALTRANS STANDARD SPECIFICATIONS.
7. BOLLARD SHALL BE PAINTED OSHA SAFETY YELLOW IN ACCORDANCE WITH WY'EAST ENGINEERING STANDARD PLAN 2-01, "UTILITY MARKING SYSTEMS";
8. WHERE PROVIDED FOR IN THE CONTRACT DOCUMENTS, THE BOLLARD SHALL BE COATED WITH A REFLECTIVE COATING OTHERWISE CONFORMING WITH SAID STANDARD PLAN 2-01;
9. ALTERNATIVELY, WHERE PROVIDED FOR IN THE CONTRACT DOCUMENTS, A RETROREFLECTIVE STRIPE SHALL BE PLACED AROUND THE TO BOLLARD WITHIN 4-INCHES OF THE CAP OF THE COLOR PROVIDED FOR;

8 FIXED BOLLARD

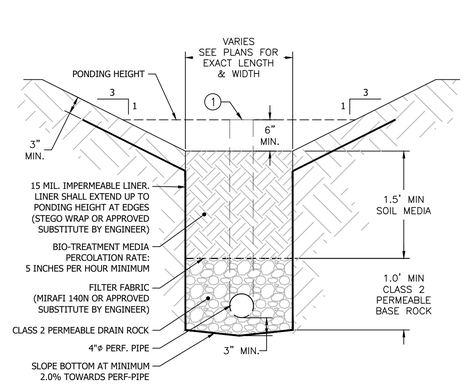
Scale: NTS



NOTE:
1. STONE TO BE 4"–8" DIAMETER RIP-RAP.
2. STONES SHALL BE CLEANED AND SOAKED IN WATER PRIOR TO INSTALLATION.
3. STONES AND NON-SHRINK GROUT SHALL BE INSTALLED OVER COMPACTED SUBGRADE.
4. NON-SHRINK GROUT SHOULD NOT BE ACTING AS A CONCRETE SLAB.
5. NON-SHRINK GROUT SHALL BE PLACED TO ALLOW STONE TO CONFORM TO SUBGRADE.
6. TOP SURFACE OF STONES SHALL NOT BE UNIFORM AND SHALL BE PLACED WITH ENOUGH SURFACE DIFFERENTIAL IN HEIGHT TO SLOW AND DISPERSE RAINWATER DISCHARGING INTO PLANTING AREA SO AS NOT TO CAUSE EROSION OF SOIL AND/OR BARK MULCH.
7. LIGHTLY SPRAY SURFACE TO CLEAN AND REMOVE FOREIGN GROUT MATERIAL FROM STONE SURFACE.

9 GROUTED RIP-RAP

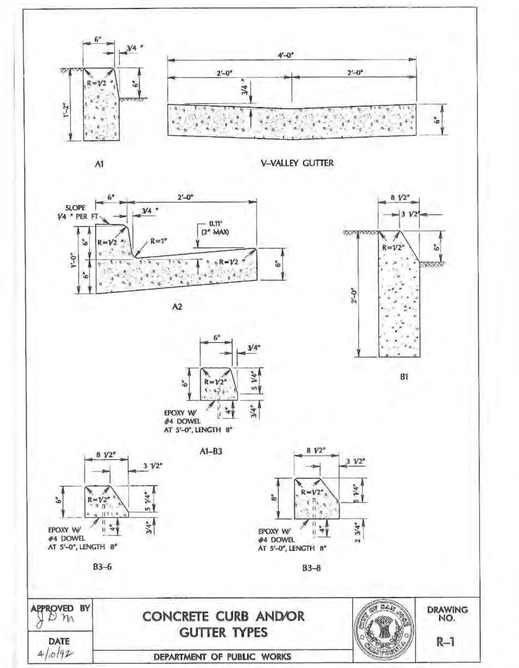
Scale: NTS



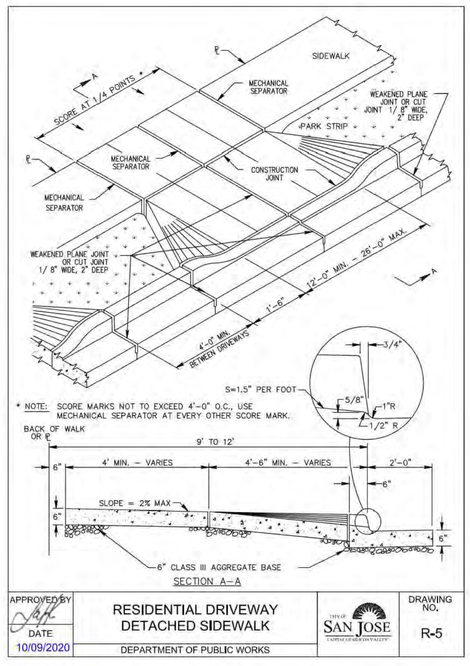
NOTES:
1. INSTALL OVERFLOW DRAIN PIPE CONNECTED TO STORM DRAINAGE SYSTEM. SEE PLANS FOR SPECIFIC STRUCTURE

10 BIORETENTION SECTIONS

Scale: NTS



APPROVED BY: JDM
DATE: 4/0/12
CONCRETE CURB AND/OR GUTTER TYPES
DEPARTMENT OF PUBLIC WORKS
DRAWING NO. R-1



* NOTE: SCORE MARKS NOT TO EXCEED 4'-0" O.C., USE MECHANICAL SEPARATOR AT EVERY OTHER SCORE MARK.

SECTION A–A

APPROVED BY: Jeff
DATE: 10/09/2020
RESIDENTIAL DRIVEWAY DETACHED SIDEWALK
DEPARTMENT OF PUBLIC WORKS
DRAWING NO. R-5

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 43-7

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Engineer Seal

REGISTERED PROFESSIONAL ENGINEER
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Exp. 6/30/23
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STATE OF CALIFORNIA

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

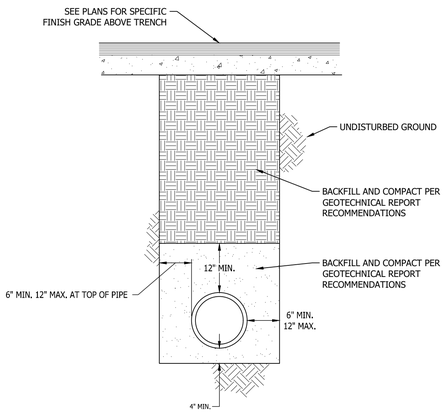
Drawing Title

CONSTRUCTION DETAILS

Project No. 2106

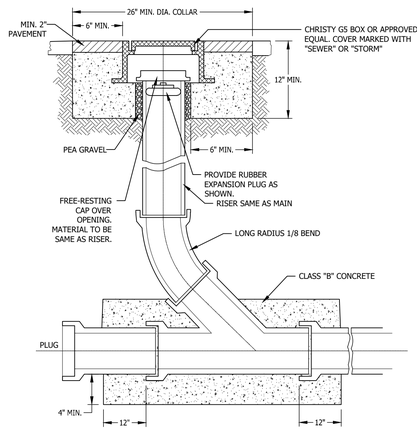
Date September 12, 2022

Drawing Number CD C5.1



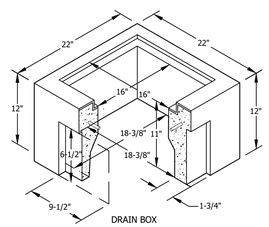
1 STANDARD TRENCH INSTALLATION

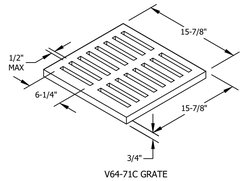
Scale: NTS



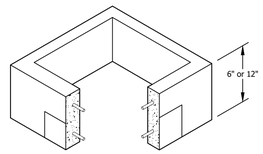
2 STORM DRAIN/SANITARY SEWER CLEANOUT

Scale: NTS





GRATE OPENING NOTE:
GRATES LOCATED IN THE PEDESTRIAN WAY SHALL HAVE MAXIMUM 1/2-INCH WIDE OPENINGS AND NOT ALLOW PASSAGE OF 1/2" DIAMETER SPHERE.

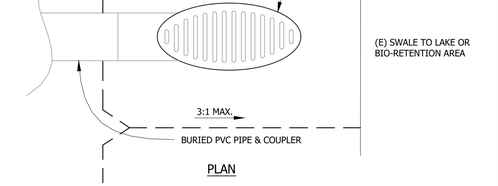


NOTE:
1. THIS CONCRETE DRAIN BOX HAS A CAST-IN GALVANIZED FRAME AND IS SPECIFICALLY ENGINEERED FOR DRAINAGE IN MEDIUM AREAS SUCH AS PARKING LOTS, SCHOOL GROUNDS, WALKWAYS, ETC. ITS DESIGN PERMITS FINAL GRADING MATERIAL TO "LOCK IN" & FINISH CLEAN. KNOCK-OUTS ACCOMMODATE UP TO 8" O.D. PIPE. APPROXIMATE DIMENSIONS SHOWN.
2. INLETS LOCATED IN HARDSCAPE SHALL HAVE MAXIMUM ½" WIDE OPENINGS
3. CONTRACTOR SHALL POUR CONCRETE BASE WHEN NOT PROVIDED BY MANUFACTURER. BASE SHALL BE MINIMUM 4" (0.33') THICK AND EXTEND 4" (0.33') FROM OUTER EDGE OF THE STRUCTURE

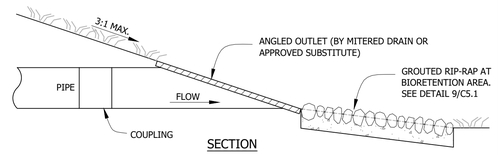
CHRISTY ORDERING CODE	ITEM	DESCRIPTION
V64BOX	Drain Box	V64 Drain Box (18-3/8"x 18-3/8")-12 per pallet
V64-71C	Grate	Cast Iron Grate - ADA Compliant available upon request
V64X6	Extension	6" Reinforced Concrete - 24 per pallet
V64X12	Extension	12" Reinforced Concrete - 12 per pallet

3 V64 CHRISTY BOX 22"x22" STORM DRAIN INLET

Scale: NTS



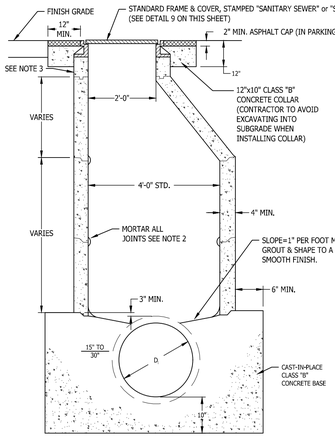
PLAN

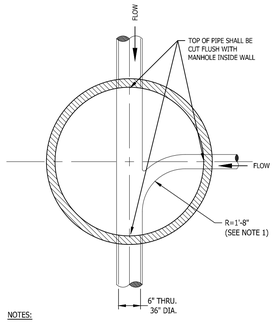


SECTION

4 ANGLED STORM DRAIN OUTLET

Scale: NTS





NOTES:

1. PRECAST CONCRETE PIPE SECTIONS, ADJUSTMENT RINGS AND TAPERED SECTIONS SHALL CONFORM TO CLASS II REINFORCED CONCRETE PIPE (ASTM C 76).

2. ALL RAMNECK JOINTS SHALL BE SMOOTHLY FINISHED WITH WATER PROOF MORTAR.

3. THE USE OF MORE THAN 12" OF ADJUSTING RINGS TO CONFORM TO GRADE SHALL NOT BE PERMITTED.

4. CONCENTRIC MANHOLES MAY BE USED WHEN A UTILITY CONFLICT OCCURS OR WHEN APPROVED BY THE CITY ENGINEER.

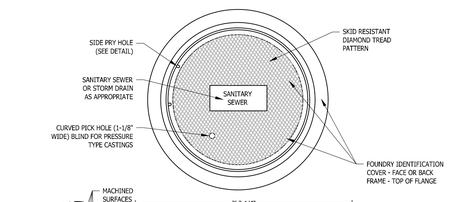
5. ALL INCOMING LINES TO BE SET TO MATCH CROWNS WITH OTHER PIPES IN MANHOLE, OR AS DIRECTED BY THE ENGINEER.

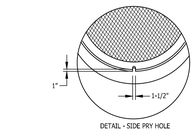
5 SANITARY SEWER MANHOLE

Scale: NTS

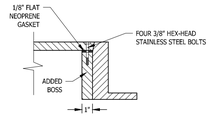
NOTES:

1. MANHOLE FRAME AND COVER SHALL BE PHOENIX IRON WORKS P-1001 OR AN APPROVED EQUAL WHICH MEETS MINIMUM SET WEIGHT.
2. CASTING SHALL BE DIPPED IN ASPHALT PAINT.
3. MINIMUM WEIGHT OF SET 290 LBS.
4. CAST IRON SHALL CONFORM TO ASTM A 48 CLASS 35B.
5. WHERE BOLT DOWN COVERS ARE CALLED FOR ON THE PLANS, ADD BOSSES TO FRAME (FOUR EA. @ 90°). SEE DETAIL.
6. MANUFACTURER SHALL CERTIFY MATERIAL, WEIGHT AND DIMENSIONS.
7. MANUFACTURER TO CERTIFY THAT FRAME AND COVER MEET ALL LOAD REQUIREMENTS FOR H-20 HIGHWAY LOADING.

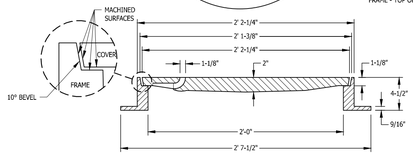




DETAIL - SIDE PRY HOLE



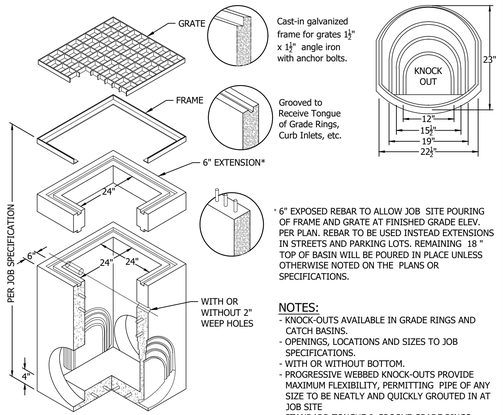
DETAIL - NOTE 5



MINIMUM SET WEIGHT	
FRAME	125 LBS.
COVER	165 LBS.
TOTAL	290 LBS.

6 STANDARD FRAME & COVER

Scale: NTS



* 6" EXPOSED REBAR TO ALLOW JOB SITE POURING OF FRAME AND GRATE AT FINISHED GRADE ELEV. PER PLAN. REBAR TO BE USED INSTEAD EXTENSIONS IN STREETS AND PARKING LOTS. REMAINING 18 " TOP OF BASIN WILL BE POURED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS.

NOTES:
- KNOCK-OUTS AVAILABLE IN GRADE RINGS AND CATCH BASINS.
- OPENINGS, LOCATIONS AND SIZES TO JOB SPECIFICATIONS.
- WITH OR WITHOUT BOTTOM.
- PROGRESSIVE WEBBED KNOCK-OUTS PROVIDE MAXIMUM FLEXIBILITY, PERMITTING PIPE OF ANY SIZE TO BE NEATLY AND QUICKLY GROUTED IN AT JOB SITE
- STANDARD TONGUE & GROOVE GRADE RINGS AVAILABLE IN 6" INCREMENTS UP TO 4' HIGH.
- ALL REINFORCING STEEL MEETS ASTM SPECIFICATIONS AS REQUIRED.

7 U21 - 2' x 2' WITH 4" WALLS

Scale: NTS

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 43-7

McKim Design Group
4595 Cherry Avenue, First Floor, San Jose, CA 95118
ph. (408) 927-8110 fax (408) 927-8112

C2G /CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
4444 Scotts Valley Drive / Suite 6
Scotts Valley, CA 95066
831.438.4420

Engineer Seal

REGISTERED PROFESSIONAL ENGINEER — MARK R. CREAMER — No. 45564 — Exp. 6/30/23 — CIVIL — STATE OF CALIFORNIA

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

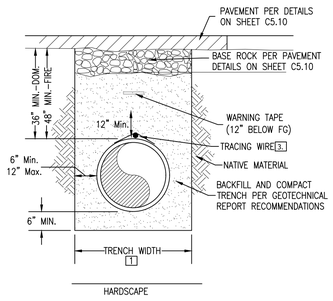
Drawing Title

CONSTRUCTION DETAILS

Project No.	Date
2106	September 12, 2022

CD

Drawing Number
C5.2

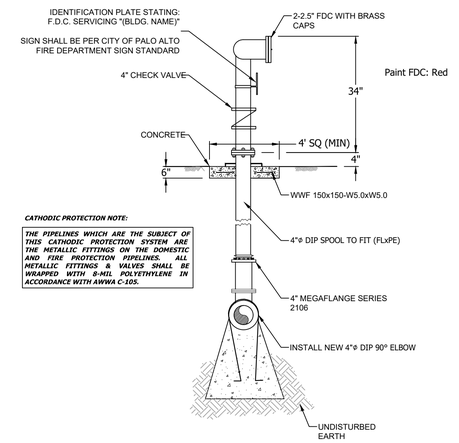


NOTES:

1. TRENCH WIDTH DETERMINED BY PIPE DIAMETER.
2. ALL DUCTILE IRON FITTINGS AND PIPE SHALL BE PROPERY PROTECTED AGAINST CORROSION.
3. 12 AWG INSULATED COPPER LOCATOR WIRE TAPED TO PIPE

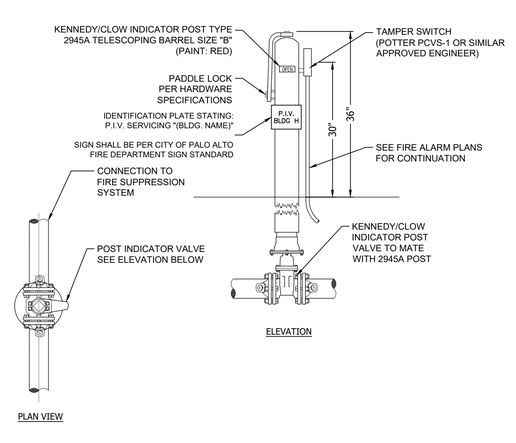
1 WATER MAIN INSTALLATION

Scale: NTS



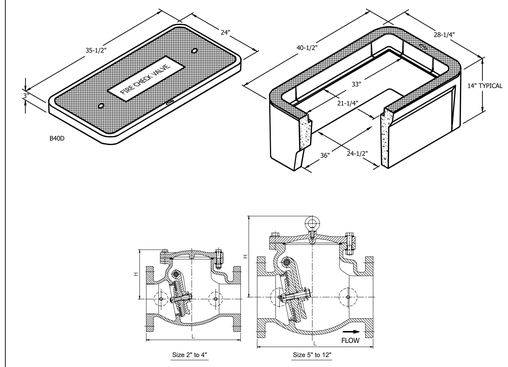
2 FIRE DEPTARTMENT CONNECTION (FDC)

Scale: NTS



3 POST INDICATOR VALVE

Scale: NTS



Dimensionsmmiitch( )								
Size		2"	2.5"	3"	4"	5"	6"	8"
L	mm	203	254	279	330	356	406	495
	inch	8	10	11	13	14	16	1912-/
H	mm	132	145	150	175	298	300	352
	inch	5316-/	51118-	578-/	678-/	1134-/	111318-	1378-/
WeightLBS( )		25	29	375.	55	88	110	129

4 SWING CHECK VALVE w/ N36 CHRISTY BOX

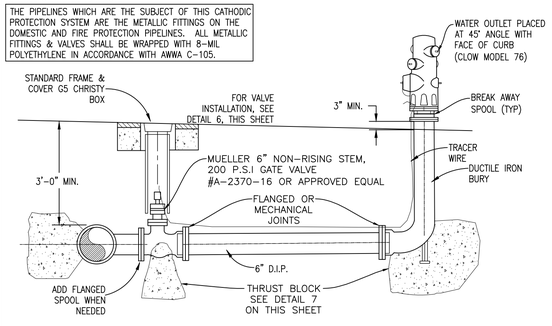
Scale: NTS

NOTES:

1. FIRE HYDRANTS SHALL HAVE A MINIMUM OF TWO (2) 2–1/2" OUTLETS AND ONE (1) 4–1/2" OUTLET WITH NATIONAL STANDARD HOSE THREADS (NSHT). THE HYDRANT SHALL BE LOCATED ON A FLANGE AT A HEIGHT PROVIDING AT LEAST 2½" OF CLEARANCE FROM FINAL GRADE TO THE BOTTOM OF THE CONNECTION FLANGE. THE CENTERLINE OF THE 4–1/2" CONNECTION SHALL ALWAYS BE LOCATED BETWEEN 18" AND 24" ABOVE FINAL GRADE.
2. ON–SITE HYDRANTS SHALL BE LOCATED SO THAT THEY ARE WITHIN TWO FEET OF THE CURB AND SO THAT SUCTION LINES WILL REACH FROM THE HYDRANT TO THE FIRE ENGINE (4–1/2" PUMPER CONNECTION FACING THE STREET OR AS OTHERWISE DIRECTED BY THE CITY OF PALO ALTO DEPARTMENT OR DSA).
3. ALL HYDRANTS SHALL BE LOCATED AT LEAST 40 FEET FROM BUILDINGS AND 10 FEET AWAY FROM THE RETURN OF A DRIVEWAY.
4. THE SHUT–OFF VALVE FOR THE HYDRANT SHALL BE LOCATED AT LEAST 10 FEET AWAY FROM THE HYDRANT AND A MINIMUM 3 FEET CLEARANCE SHALL BE MAINTAINED AROUND AND TO THE HYDRANT AT ALL TIMES.
5. ALL HYDRANTS (AND BOLLARDS/GUARD POSTS IF NEEDED) SHALL BE PAINTED "CHROME YELLOW".
6. AT EACH HYDRANT LOCATION, A BLUE REFLECTOR SHALL BE INSTALLED IN THE ACCESS ROAD PERPENDICULAR TO THE HYDRANT
7. FIRE HYDRANT SHALL BE CLOW MODEL 76

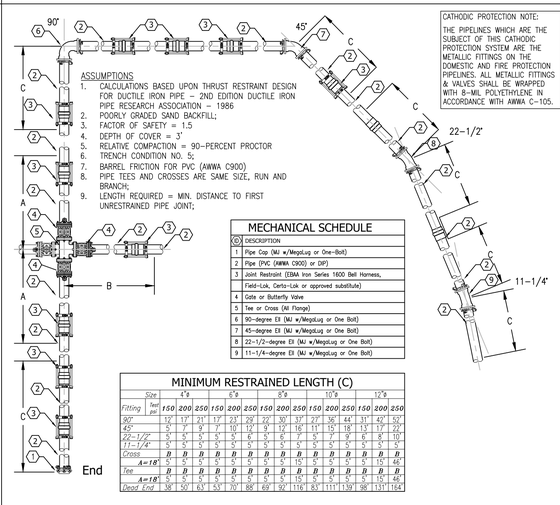
CATHODIC PROTECTION NOTE:

THE PIPELINES WHICH ARE THE SUBJECT OF THIS CATHODIC PROTECTION SYSTEM ARE THE METALLIC FITTINGS ON THE DOMESTIC AND FIRE PROTECTION PIPELINES. ALL METALLIC FITTINGS & VALVES SHALL BE WRAPPED WITH 8–MIL POLYETHYLENE IN ACCORDANCE WITH AWWA C–105.



5 FIRE HYDRANT

Scale: NTS



ASSUMPTIONS

1. CALCULATIONS BASED UPON THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE – 2ND EDITION DUCTILE IRON PIPE RESEARCH ASSOCIATION – 1986
2. POORLY GRADED SAND BACKFILL;
3. FACTOR OF SAFETY = 1.5
4. DEPTH OF COVER = 3'
5. RELATIVE COMPACTION = 90–PERCENT PROCTOR
6. TRENCH CONDITION NO. 5;
7. BARREL FRICTION FOR PVC (AWWA C900)
8. PIPE TEES AND CROSSES ARE SAME SIZE, RUN AND BRANCH;
9. LENGTH REQUIRED = MIN. DISTANCE TO FIRST UNRESTRAINED PIPE JOINT;

CATHODIC PROTECTION NOTE:

THE PIPELINES WHICH ARE THE SUBJECT OF THIS CATHODIC PROTECTION SYSTEM ARE THE METALLIC FITTINGS ON THE DOMESTIC AND FIRE PROTECTION PIPELINES. ALL METALLIC FITTINGS & VALVES SHALL BE WRAPPED WITH 8–MIL POLYETHYLENE IN ACCORDANCE WITH AWWA C–105.

MECHANICAL SCHEDULE

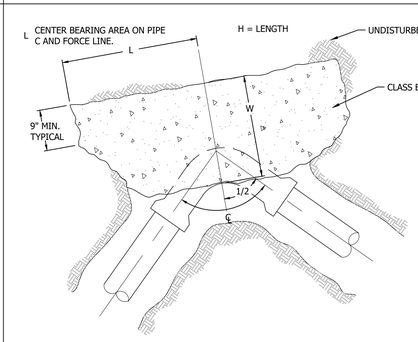
ⓚ	DESCRIPTION
1	Pipe Cap (MJ w/MegaLug or One–Bolt)
2	Pipe (PVC (AWWA C900) or DIP)
3	Joint Restraint (EBAA Iron Series 1600 Bell Harness, Field–Lok, Certa–Lok or approved substitute)
4	Gate or Butterfly Valve
5	Tee or Cross (All Flange)
6	90–degree Ell (MJ w/MegaLug or One Bolt)
7	45–degree Ell (MJ w/MegaLug or One Bolt)
8	22–1/2–degree Ell (MJ w/MegaLug or One Bolt)
9	11–1/4–degree Ell (MJ w/MegaLug or One Bolt)

MINIMUM RESTRAINED LENGTH (C)

Size		4"ø			6"ø			8"ø			10"ø			12"ø		
Fitting	feet psi	150	200	250	150	200	250	150	200	250	150	200	250	150	200	250
90°		12'	17'	21'	17'	23'	29'	22'	30'	37'	27'	36'	44'	31'	42'	53'
45°		5'	7'	9'	7'	10'	12'	9'	12'	16'	11'	15'	18'	13'	17'	22'
22–1/2°		3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'
11–1/4°		3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'
Cross		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	A=18"	3'	3'	3'	3'	3'	3'	3'	3'	3'	15'	3'	3'	3'	15'	46'
Tee		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	A=18"	3'	3'	3'	3'	3'	3'	3'	3'	3'	15'	3'	3'	3'	15'	46'
Dead End		38'	50'	63'	53'	70'	88'	69'	92'	116'	83'	111'	139'	98'	131'	164'

6 MECHANICAL RESTRAINT DETAIL

Scale: NTS



NOTES:

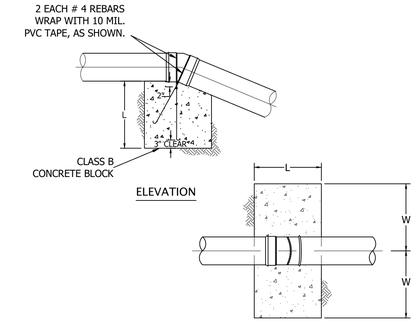
1. CONCRETE SHALL BE KEPT CLEAR OF FLANGES, BOLTS AND NUTS.
2. CENTER OF H COINCIDES WITH CENTERLINE OF PIPE.

TABLE NOTES:

1. THRUST BLOCK SIZING IS BASED UPON 2019 NFPA 24 SECTION 10.6.1.
2. THRUST BLOCK SIZES HAVE BEEN CALCULATED BASED UPON WORKING PRESSURE OF 80 PSI AND SITE SOIL BEARING CAPACITY OF 2,000 LBS/FT²
3. AT A MINIMUM THRUST BLOCKS SHALL BE CONSTRUCTED PER NFPA 24 TABLE A10.6.1(b).

HORIZONTAL THRUST BLOCK

	11.25°					22.5°					45°					90°				
	B. AREA		L' x W'			B. AREA		L' x W'			B. AREA		L' x W'			B. AREA		L' x W'		
4"	0.21	SF	0.46	X	0.46	0.42	SF	0.65	X	0.65	0.82	SF	0.91	X	0.91	1.52	SF	1.23	X	1.23
6"	0.44	SF	0.66	X	0.66	0.87	SF	0.93	X	0.93	1.71	SF	1.31	X	1.31	3.16	SF	1.78	X	1.78
8"	0.76	SF	0.87	X	0.87	1.50	SF	1.23	X	1.23	2.94	SF	1.72	X	1.72	5.44	SF	2.33	X	2.33
10"	1.14	SF	1.07	X	1.07	2.26	SF	1.50	X	1.50	4.44	SF	2.11	X	2.11	8.20	SF	2.86	X	2.86
12"	1.61	SF	1.27	X	1.27	3.20	SF	1.79	X	1.79	6.28	SF	2.51	X	2.51	11.60	SF	3.41	X	3.41



VERTICAL THRUST BLOCK

	11.25°					22.5°				
	B. AREA		L' x W'			B. AREA		L' x W'		
4"	0.21	SF	0.46	X	0.46	0.42	SF	0.65	X	0.65
6"	0.44	SF	0.66	X	0.66	0.87	SF	0.93	X	0.93
8"	0.76	SF	0.87	X	0.87	1.50	SF	1.23	X	1.23

7 ELBOW THRUST BLOCK - HORIZONTAL/VERTICAL THRUSTS

Scale: NTS

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 43-7

McKim Design Group
4595 Cherry Avenue, First Floor, San Jose, CA 95118
ph. (408) 927-8110 fax (408) 927-8112

C2G /CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
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Scotts Valley, CA 95066
831.438.4420

Engineer Seal

REGISTERED PROFESSIONAL ENGINEER TODD R. CREAMER Exp. 6/30/23 CIVIL STATE OF CALIFORNIA

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

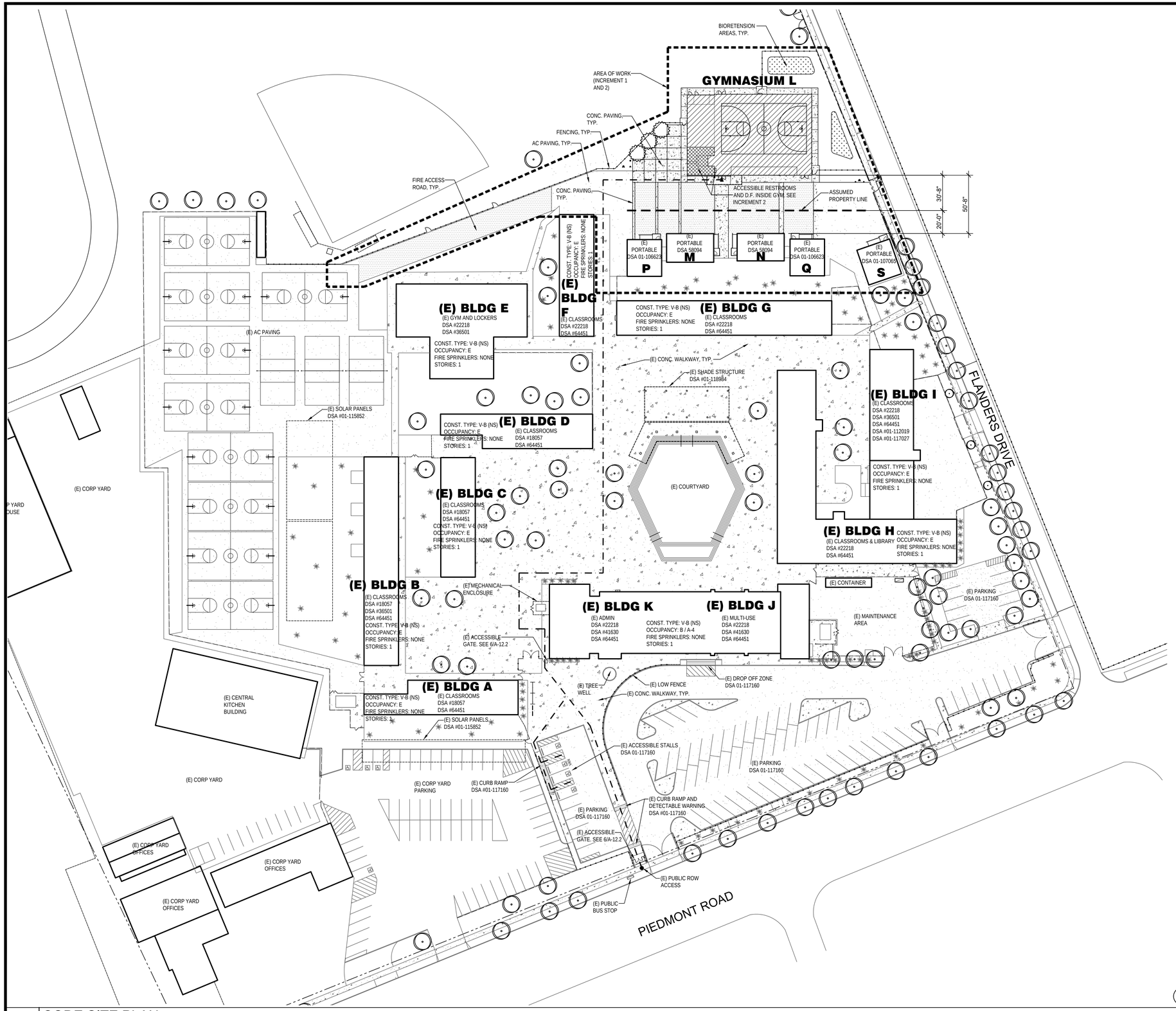
Drawing Title

CONSTRUCTION DETAILS

Project No. 2106

Date September 12, 2022

Drawing Number CD C5.3



1 CODE SITE PLAN

1" = 40'-0"

BUILDING CODE ANALYSIS

GYMNASIUM L
Use: Gymnasium
Type of Construction: V-B (S1)
Occupancy: A-4
Fire sprinkler: Yes
Stories: 1

Building Area Calculations:
7,596 sf gross

Allowable Area:
Per 2019 CBC non-separated uses (CBC 508.3 and Table 506.2)
A-4 = 24,000 sf
E = 38,000 sf
S-1 = 36,000

Most restrictive shall apply which is A-4. Therefore, 24,00 sf > 7,596 sf = OK

Gymnasium is also 50'-8" away from (E) nearest buildings. Assumed property line is greater than 20', therefore no fire ratings required and the gymnasium location does not impact the nearest building areas.

Other Information
WUI Zone: No
Flood Zone: No, Zone X

PARKING REQUIREMENTS

(E) Parking Lot:

(E) Standard Stalls	= 77
(E) Accessible Stalls	= 03
(E) Van Accessible Stalls	= 01
Total	= 81

Per CBC Table 11B-208.2, (4) accessible stalls are required of which (1) shall be van accessible. Provided is (4) accessible stalls, one of which is Van Accessible, Therefore the parking lot complies.

GENERAL NOTES / LEGEND

Accessible path of travel (hereafter, P.O.T) 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% (1:48) and slope in the direction of travel is less than 5% (1:20) unless otherwise indicated. Accessible P.O.T shall be maintained free of overhanging obstructions to 80" minimum, and protruding objects greater than 4" projection from wall and above 27" and less than 80". Architect shall verify that there are no barriers in the P.O.T.. Accessible path of travel shown on plans can be negotiated by a person with a disability using a wheelchair, and that is also safe for and usable by persons with other disabilities. IOR shall verify that there are no barriers in the P.O.T..

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
The POT identified in these construction documents is compliant with the current applicable California Building Code 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 noncompliant 1) have been identified and 2) the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any 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 so indicated in these construction documents. During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as part of this project by means of a construction change document.

Accessible path of travel as shown on the plans can be negotiated by a person with a disability using a wheelchair, and is also safe for and useable by persons with other disabilities.

Existing accessible routes to all facilities and buildings that are operational during construction phase shall remain unobstructed, safe and useable by people with disabilities.

At accessible door locations shown along the POT, adjust door closers to 5 lbs max pressure.

(E) PROPERTY LINE
ACCESSIBLE PATH OF TRAVEL
(E) 1:20 MAX. P.O.T.
ACCESSIBLE ENTRANCE
ACCESSIBLE DRINKING FOUNTAIN
ACCESSIBLE RESTROOMS
AREA OF WORK

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 47-3

McKim Design Group
4595 Cherry Avenue, First Floor, San Jose, CA 95118
ph. (408) 927-8110 fax (408) 927-8112

Engineer Seal

Architect Seal

LICENSED ARCHITECT KIRK S. McKIM No. C-25022 REN. 4-30-23 STATE OF CALIFORNIA

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

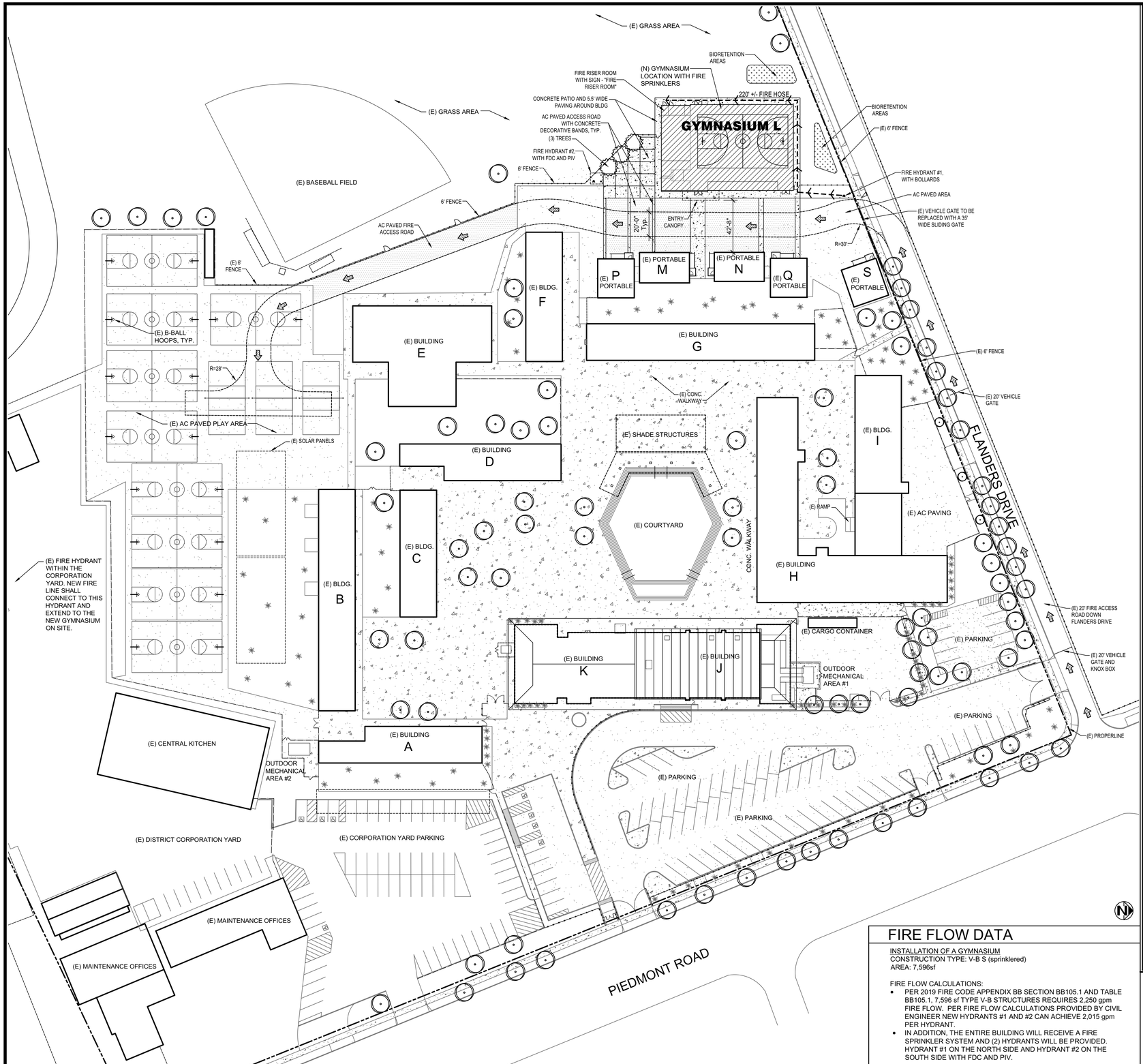
CODE SITE PLAN

Project No. 2106

Date September 12, 2022

CD

Drawing Number A-0.2



FIRE FLOW DATA

INSTALLATION OF A GYMNASIUM
CONSTRUCTION TYPE: V-B S (sprinklered)
AREA: 7,596sf

FIRE FLOW CALCULATIONS:

- PER 2019 FIRE CODE APPENDIX BB SECTION BB105.1 AND TABLE BB105.1, 7,596 sf TYPE V-B STRUCTURES REQUIRES 2,250 gpm FIRE FLOW. PER FIRE FLOW CALCULATIONS PROVIDED BY CIVIL ENGINEER NEW HYDRANTS #1 AND #2 CAN ACHIEVE 2,015 gpm PER HYDRANT.
- IN ADDITION, THE ENTIRE BUILDING WILL RECEIVE A FIRE SPRINKLER SYSTEM AND (2) HYDRANTS WILL BE PROVIDED. HYDRANT #1 ON THE NORTH SIDE AND HYDRANT #2 ON THE SOUTH SIDE WITH FDC AND PIV.

1 FIRE ACCESS SITE PLAN

1" = 40'-0"

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:	Berryessa Union School District
Project Name/School:	Piemont M.S. New Gymnasium
Project Address:	955 Piedmont Road, San Jose, CA 95132

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

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			X	
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.			X	
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.			X	
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.			X	
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:	San Jose Fire Department, Bureau of Fire Prevention
LFA Review Official:	Nic Lagman
Title: Associate Engineer	Work Phone: (408) 535-7701
Work Email:	nic.lagman@sanjoseca.gov

LFA Reviewer's Signature: _____ Date: _____

(E) FENCES AND GATES
C.L. FENCES AND GATES
FIRE HYDRANT
20' WIDE FIRE ACCESS ROAD
FIRE HOSE ACCESS
AREA OF WORK

SJFD Plan Check # 2022 673659

APPROVED

These plans meet requirements of the San Jose Fire Department as noted.

By *Nicasio Lagman* Date 10/5/2022

SAN JOSE FIRE PREVENTION BUREAU

Nicasio Lagman
Associate Engineer
Office: 408-535-7701
E-mail: Nic.Lagman@sanjoseca.gov

SITE REVIEW ONLY

Regulatory Agency Approval

DSA: 01-120466 / File: 43-7

McKim Design Group
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Engineer Seal

Architect Seal

LICENSED ARCHITECT
KIRK S. MCKIM
No. C-25022
REN. 4-30-23
STATE OF CALIFORNIA

Project Title

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NEW MODULAR GYMNASIUM & SITE WORK
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No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

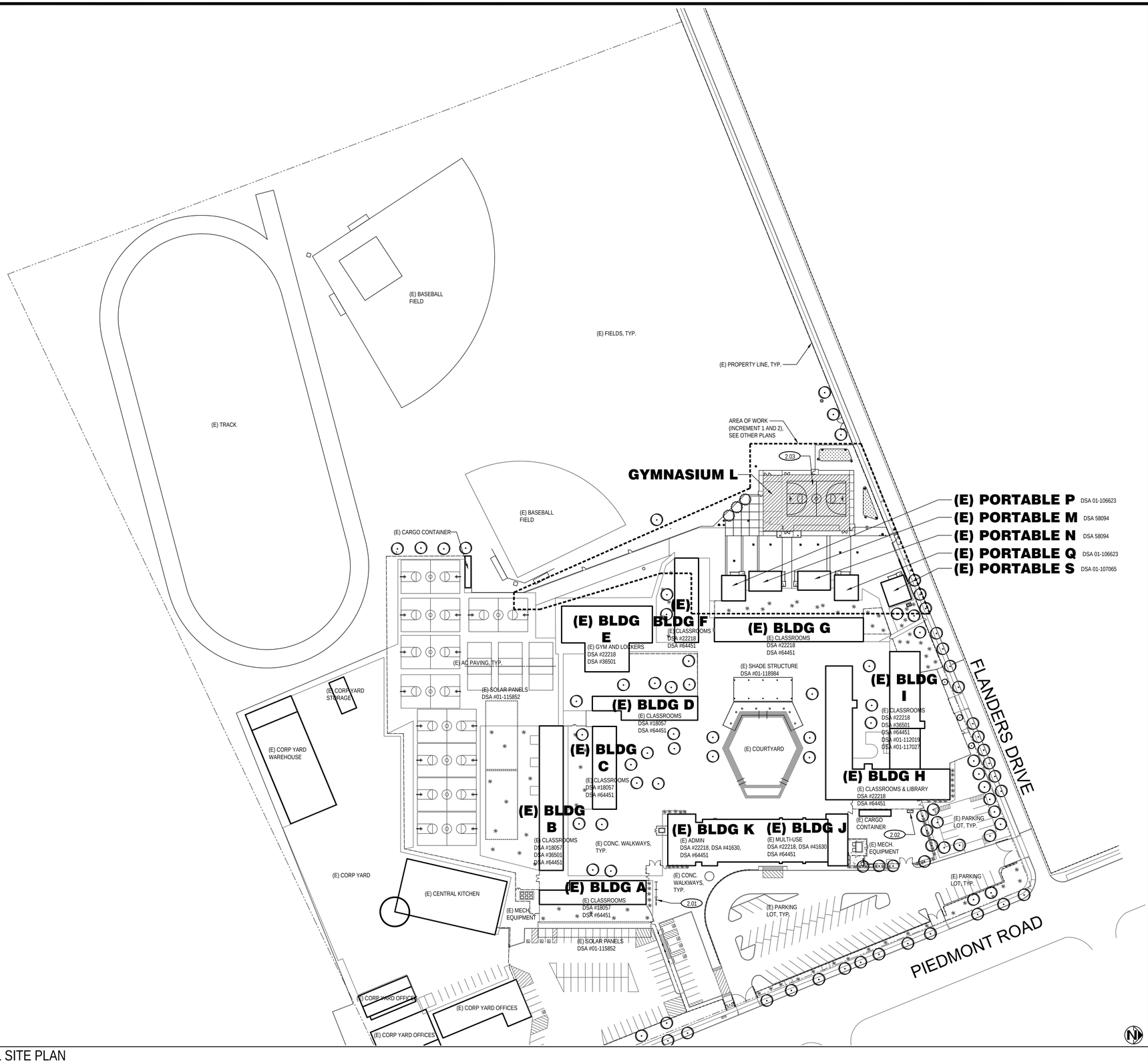
FIRE ACCESS SITE PLAN

Project No. 2106

Date September 12, 2022

CD

Drawing Number A-0.3



1 OVERALL SITE PLAN

1" = 60'-0"

9.10 DSA GL-4 SITE PLAN KEYNOTES

2.01 Student bicycle rack location. Provide (2) 4-bike capacity loop racks anchored to (E) concrete walkway, next to (E) bike racks, per the manufacturers requirements. Model 398-8003 from the The Park and Facilities catalog or approved equal. Comply with DSA GL-4 5.106.4.2.1.

2.02 Staff bicycle locker location. Provide (1) 2-bike capacity floor mounted bike locker anchored to a concrete pad per the manufactures requirements. Locker shall be Cyclocker #2176-2-C, powdercoat finish, color to be selected by Architect, available through Park Pacific 888-460-7275. Comply with DSA GL-4 5.106.4.2.2. See 4/A-12.2.

2.03 Gymnasium shall receive a district supplied recycle bin. Recycling is collected each day by site custodian and deposited into the on-site recycle bin. Comply with DSA GL-4 5.410.1.

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 47-3

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Engineer Seal

Architect Seal

LICENSED ARCHITECT KIRK S. MCKIM No. C-25022 REN. 4-30-23 STATE OF CALIFORNIA

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

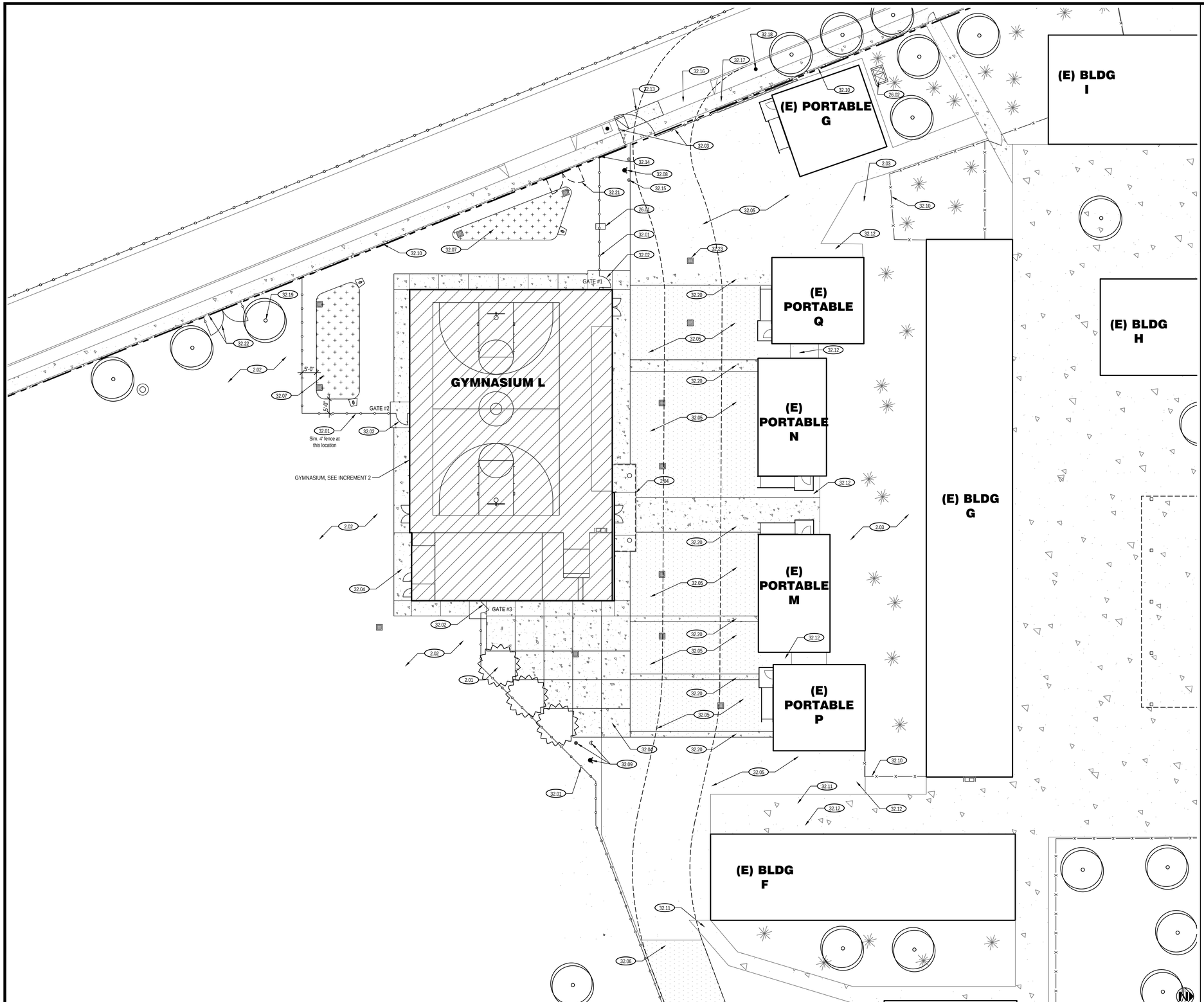
OVERALL SITE PLAN

Project No. 2106

Date September 12, 2022

CD

Drawing Number A-1.1



1 ENLARGED SITE PLAN

1/16" = 1'-0"

GENERAL NOTES

1. It shall be the responsibility of the various contractors, including modular manufacturer and site contractor and their sub-contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.
2. 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.
3. 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 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.
4. Contractor shall provide adequate dust control at all times as required by owner's representative.
5. 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.
6. Contractor shall pot hole ALL points of connections to determine location, depth and size of (E) utilities prior to commencing of work shown on civil and electrical plans. Contractor shall expose and verify location and elevation of existing utilities, including sanitary and storm sewers, and water lines before constructing new facilities. Trenching and construction of new facilities shall start at the downstream connection and work upstream. Verify there are no conflicts on the line before backfilling trench.
7. See civil and electrical plans for trenching requirements and all other scope of work
8. Where trenching occurs for utilities patch to match (E) surface material. This includes concrete paving, AC paving, grass, etc.
9. Paint all new exposed conduit or shrouds to match adjacent building color.
10. Coordinate with the district, site and construction manager for lay laid area.
11. School may be in session during the course of construction. Provide fencing where required to separate construction from students and staff. Do not leave trenches open at the end of each work day. Cover trenches with steel plates or other approved material.
12. Contractor is to protect all existing items to remain. Apply and maintain protective barriers around items to remain where construction occurs.
13. Repair any damage that occurs to existing surfaces, equipment, etc. due to the scope of work or contractor damage.

9.10 SITE PLAN KEY NOTES

2.01 (3) trees to be selected by district. Provide design-build irrigation system to each tree. See specifications.
2.02 (E) turf area to remain. See civil for extent of grading area. Re-route (E) irrigation system to accommodate the scope of work. Seed area after construction and maintain area for 60 days. This includes proper watering, moving, etc...
2.03 (E) dirt area to remain.
2.04 Entry canopy, see Increment 2 plans.

26.01 (E) supported electrical panel, see electrical.
26.02 MSB electrical panel. Locate behind (E) portable +/-5'-6'. Field verify exact location with engineer and AOR. Locate unit away from (E) trees and roots. See electrical plans and 1/A-12.2.

32.01 6' Tall C.L. fence fence, typ. See civil for exact locations. Extend fencing along fire road and connect to (E) fencing near (E) baseball field and AC playground area. See 2/A-12.2
32.02 4' Wide C.L. fence gate, typ. See 3, 8, 10 and 11/A-12.2.
32.03 +/-24' C.L. sliding gate and 11' C.L. swinging gate. Demolish portion of (E) fence and extend sliding gate between (E) portable and (E) fence. See 7 & 9/A-12.2.
32.04 Concrete paving, typ. See civil.
32.05 AC paving and (E) AC paving and header boards, typ. see civil.
32.06 AC paved fire road and header boards, see civil.
32.07 Bioretention areas, see civil.
32.08 Fire hydrant located in dirt area, see civil.
32.09 Fire hydrant, PIV and valve located in dirt area, see civil and electrical.
32.10 (E) c.l. fencing to remain, typ. Height varies by location.
32.11 (E) concrete walkway to remain, typ.
32.12 Extend AC paving or seal coats between (E) portables, see civil.
32.13 Demolish and extend curb cut, see civil.
32.14 Connect c.l. fence to (E) c.l. fence with line post.
32.15 Bollards and footing, see civil.
32.16 (E) curb cut to remain, modify per notes.
32.17 (E) sidewalk, typ.
32.18 (E) telephone pole to remain.
32.19 (E) trees to remain, protect, typ.
32.20 Concrete paving bands, typ. See civil. (Alternate 1 to make these bands AC paving with decorative paint. Paint pattern to be provided by AOR during construction.)
32.21 Demolish (E) c.l. gates and infill with c.l. fencing material to match (E) conditions and height. This includes posts, footings, rails, fabric, etc.
32.22 Demolish portion of (E) c.l. fence and install a pair of 6' wide c.l. gates. Match (E) +/-4' height. Install gate posts, conc. footings, etc..Locate gates between (E) trees for district vehicle access to turf area. Provide all material, hardware, etc...per specifications. See 7/A-12.2.
32.23 Storm drains, see civil, typ.

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Drawing Title

ENLARGED SITE PLAN

Project No. 2106

Date September 12, 2022

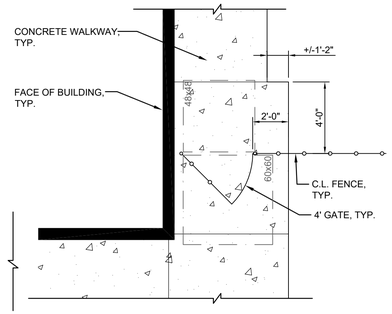
CD

Drawing Number A-1.2

20

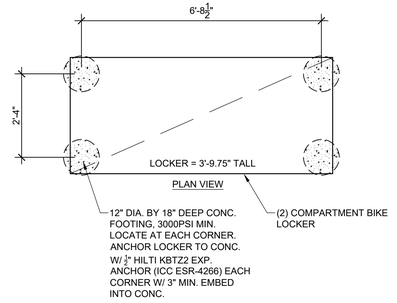
16

12



8 ACCESSIBLE CLEARANCE AT GATE #1

1/4" = 1'-0"



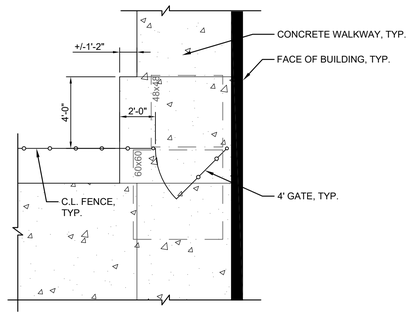
4 STAFF BIKE LOCKER ANCHORAGE

1/2 "= 1'-0"

19

15

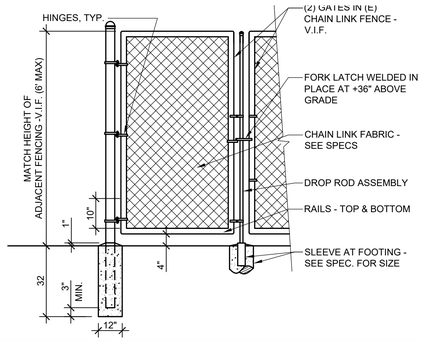
11



ACCESSIBLE CLEARANCE AT GATE #3

1/4" = 1'-0"

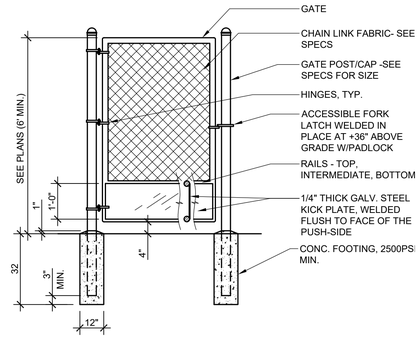
7



CHAIN-LINK VEHICLE GATE @ (E) CHAIN-LINK FENCE

1/2 "= 1'-0"

3



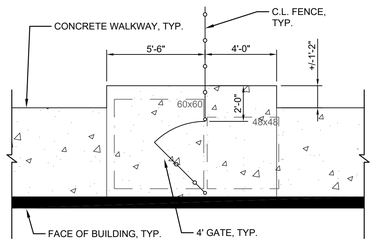
CHAIN-LINK FENCE - GATE W/ KICKPLATE

1/2 "= 1'-0"

18

14

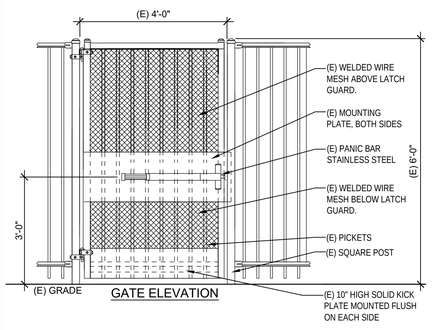
10



ACCESSIBLE CLEARANCE AT GATE #2

1/4" = 1'-0"

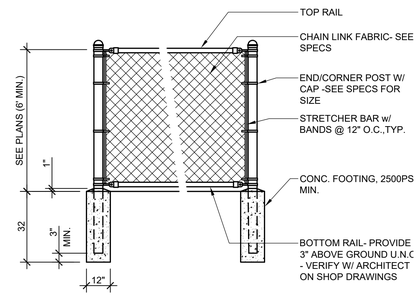
6



(E) ACCESSIBLE GATE WITH PANIC BAR

N.T.S.

2



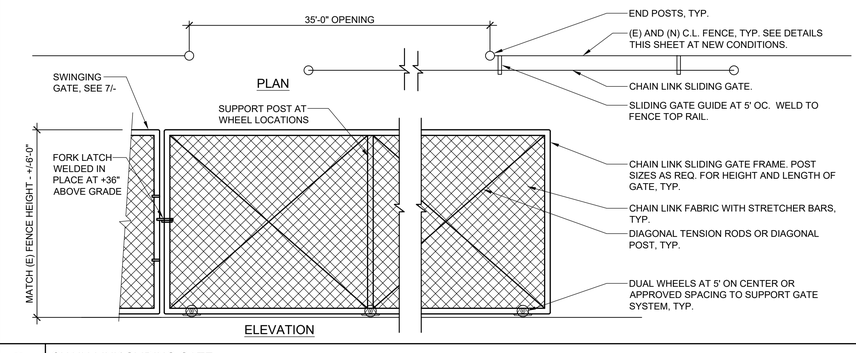
CHAIN-LINK FENCE

1/2 "= 1'-0"

17

13

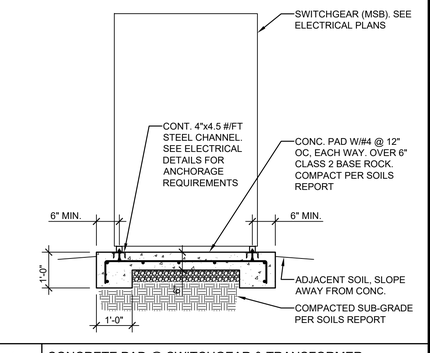
9



CHAIN-LINK SLIDING GATE

1/2 "= 1'-0"

1



CONCRETE PAD @ SWITCHGEAR & TRANSFORMER

1/2" = 1'-0"

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Drawing Title

SITE DETAILS

Project No. 2106

Date September 12, 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
- EMERGENCY OR NIGHT LIGHT
- STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE
- LUMINAIRE - RECESSED - SEE SCHEDULE
- RECESSED WALL WASHER
- LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE
- LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE
- LUMINAIRE - WALL MOUNTED SEE SCHEDULE
- BOLLARD OR PATH LIGHT - SEE SCHEDULE
- EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE
- TRACK LIGHTING - SEE SCHEDULE
- EMERGENCY LIGHT
- DIGITAL DUAL TECHNOLOGY OCC. SENSOR
- LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED
- DRC — DIMMER ROOM CONTROLLER
- PC — PLUG LOAD CONTROLLER
- RC — ROOM LIGHTING CONTROLLER
- LCP — LIGHTING CONTROL PANEL
- OL — DIGITAL DAYLIGHT SENSOR
- $ — SINGLE POLE SWITCH ★★
- $a — SINGLE POLE SWITCH, ★★ a = CIRCUIT CONTROLLED
- $3 — THREE WAY SWITCH★★
- $4 — FOUR WAY SWITCH★★
- $M — MANUAL MOTOR STARTER
- $K — KEY OPERATED SWITCH★★
- $D — LIGHTING DIMMER★★
- $ — DIGITAL ON/OFF SWITCH ★★
- $DD — DIGITAL DIMMER SWITCH ★★
- $M# — DIGITAL MULTI SCENE LIGHTING SWITCH ★★
- $OS — DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR ★★
- WALL OCCUPANCY SENSOR ★★
- $2 — DOUBLE SWITCHED WALL OCCUPANCY SENSOR ★★
- DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR ★★
- $2 — 2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR ★★

- SECURITY DOOR CONTACTS
- MD — SECURITY MOTION DETECTOR
- SC — CCTV CAMERA
- KP — SECURITY SYSTEM KEYPAD
- DOOR BELL PUSHBUTTON
- DC — DOOR CHIME WITH LED
- RECEPTACLE - DUPLEX ★
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- GFCI CONVENIENCE RECEPTACLE - DUPLEX★
- GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- RECEPTACLE DOUBLE DUPLEX★
- HALF SWITCHED DUPLEX RECEPTACLE ★
- SINGLE RECEPTACLE★
- DUPLEX RECEPTACLE - CEILING MOUNTED
- HC — LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE ★
- C — LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE ★
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED BOX
- POWER OUTLET - SEE PLANS FOR NEMA TYPE★
- POWER POLE
- WALL TELEPHONE OUTLET ★★
- [#] — VOICE/DATA WALL OUTLET ★
- [#] — VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- [#] — SURFACE MOUNTED VOICE/DATA WALL OUTLET ★
- [#] — SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED
- WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT
- [#] — VOICE/DATA OUTLET - FLOOR MOUNTED
- TV OUTLET ★
- [#] — VOICE/DATA OUTLET - CEILING MOUNTED
- S — INTERIOR SPEAKERS CEILING MOUNTED
- HS — INTERIOR SPEAKERS WALL MOUNTED
- HC — CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION

- PANELBOARD - FLUSH MOUNTED
- EQUIPMENT PANEL - FLUSH MOUNTED
- PANELBOARD - SURFACE MOUNTED
- EQUIPMENT PANEL - SURFACE MOUNTED
- M — METER W/ CURRENT TRANSFORMER
- J/HJ — JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA
- COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA
- MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED
- CIRCUIT BREAKER
- GROUND ROD WITH GROUNDWELL BOX
- GROUND ELECTRODE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- TRANSFORMER - SEE SINGLE LINE FOR SIZE
- PULLBOX
- FLEX CONDUIT WITH CONNECTION
- CONDUIT - UP
- CONDUIT - DOWN
- E — CONDUIT EMERGENCY SYSTEM
- LV — LOW VOLTAGE WIRING
- SURFACE METAL OR NON-METALLIC RACEWAY
- CONDUIT - CONCEALED IN WALLS OR CEILING
- CONDUIT - EXISTING
- CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.
- E — CAPPED OR STUB-OUT CONDUIT
- CONDUIT CONTINUATION
- #10 — 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.
- 2 — SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET
- 3 — SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET

- 2 — DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL
- F301 — FEEDER DESIGNATION; SEE ASSOCIATED NOTE ON SAME DETAIL
- 1 / E3.0 — DETAIL NUMBER; DETAIL OR SECTION REFERENCE; SHEET NUMBER
- 1 / 2 — INDICATES QUANTITY OF TELEPHONE OUTLETS; INDICATES QUANTITY OF DATA OUTLETS

ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	GFI	INTERRUPTING	OAH	OVERALL HEIGHT
ALUM/AL	ALUMINUM	GND, G	GROUND	OC	ON CENTER
ARCH	ARCHITECT	GRS	GALVANIZED RIGID STEEL	OH	OVERHEAD
AWG	AMERICAN WIRE GAUGE	HT	HEIGHT	PA	PUBLIC ADDRESS
BKR	BREAKER	IC	INTERCOM	PB	PULL BOX
C	CONDUIT	IDF	INTERMEDIATE DISTRIBUTION FRAME	PF	POWER FACTOR
CATV	CABLE TV	INCAND	INCANDESCENT	PH	PHASE
CB	CIRCUIT BREAKER	JB	JUNCTION BOX	PIR	PASSIVE INFRARED
CCTV	CLOSED CIRCUIT TV	KV	KILOVOLT	PNL	PANEL
CKT	CIRCUIT	KVA	KILOVOLT AMPERES	PV	PHOTOVOLTAIC
CL	CENTER LINE	KW	KILOWATT	PVC	POLYVINYL CHLORIDE
CLG	CEILING	LCP	LIGHTING CONTROL PANEL	PWR	POWER
C.O.	CONDUIT ONLY	LTG	LIGHTING	(R)	EXISTING TO BE REMOVED
CTR	CENTER	LV	LOW VOLTAGE	(RP)	REMOVABLE POLE
D	DIMMER	KCM	THOUSAND CIRCULAR MILS	RECPT'S	RECEPTACLES
DIM	DIMENSION	M.B.	MAIN CIRCUIT BREAKER	REQD	REQUIRED
DIST	DISTRIBUTION	MCA	MINIMUM CIRCUIT AMPS	REQMT'S	REQUIREMENT(S)
(E)	EXISTING	MDF	MAIN DISTRIBUTION FRAME	SHT	SHEET
EC	ELECTRICAL CONTRACTOR	MECH	MECHANICAL	SLD	SINGLE LINE DIAGRAM
(EL)	EVENING LIGHT	MH	METAL HALIDE	STC	SYSTEMS TERMINATION CABINET
EM	EMERGENCY	MLO	MAIN LUGS ONLY	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	MPOE	MAIN POINT OF ENTRANCE	SWBD	SWITCHBOARD
EQUIP	EQUIPMENT	MTD	MOUNTED	TTB	TELEPHONE TERMINAL BACKBOARD
EV	ELECTRICAL VEHICLE	MTG	MOUNTING	TYP	TYPICAL
FA	FIRE ALARM	MOCP	MAXIMUM OVER CURRENT PROTECTION	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	(N)	NEW	UG	UNDERGROUND
FC	FOOT CANDLE	NIC	NOT IN CONTRACT	V	VOLT
FIN	FINISH	NIEC	NOT IN ELECTRICAL CONTRACT	VD	VOLTAGE DROP
FL	FLOOR	(NL)	NIGHT LIGHT	W	WATT
FLA	FULL LOAD AMPS	NO.	NUMBER	W/	WITH
FLUOR	FLUORESCENT	NOM	NOMINAL	WP	WEATHERPROOF
(F)	FUTURE			XFMR	TRANSFORMER
GC	GENERAL CONTRACTOR				

★ +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:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. 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.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. 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.

B. 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:

1. 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
2. 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
4. 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
5. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
7. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
9. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
11. NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

STANDARDS:

1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
6. UNDERWRITER LABORATORIES (UL)
7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

SCOPE OF WORK

INSTALL NEW CONDUITS/UNDERGROUND INFRASTRUCTURE FOR POWER/SYSTEMS UNDER INCREMENT 1 FROM EXISTING CAMPUS HEAD-END TO NEARBY LOCATION OF MODULAR GYMNASIUM BUILDING PER INCREMENT 2.

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 47-3

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Engineer Seal

REGISTERED PROFESSIONAL ENGINEER — ALAN B. ANWAYA — No. E21043 EXP. 3/31/23 — ELECTRICAL — STATE OF CALIFORNIA

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

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

Project No.	Date
2106	September 12, 2022

CD

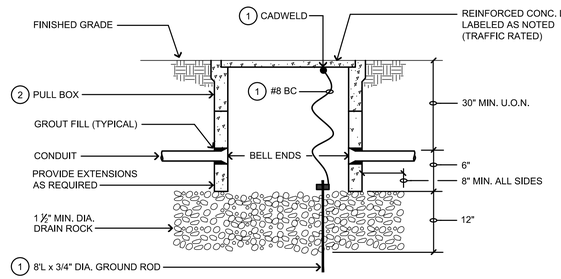
Drawing Number E0.1

CONTRACTOR RESPONSIBILITY MATRIX

		Building				Site			
System	Design	Rough-in	Wiring	Furnishing of Equipment / Devices	Installation of Equipment / Devices	Rough-in	Wiring	Furnishing of Equipment / Devices	Installation of Equipment / Devices
Electrical - building	JLC	JLC	JLC	JLC	JLC				
Electrical - Site	District/JLM					Site Contractor	JLC		
MSB breaker								JLC	JLC
Fire Alarm	JLC	JLC	JLC	JLC	JLC	Site Contractor	Site Contractor	Site Contractor	Site Contractor
Clock/Speaker System	JLC	JLC	JLC	JLC	JLC	Site Contractor	Fiber*	Fiber*	Fiber*
Tel-Data Outlets	JLC	JLC	JLC	JLC	JLC	Site Contractor	Fiber*	Fiber*	Fiber*
AV	JLC	JLC	Future	Future	Future	Site Contractor	Fiber*	Fiber*	Fiber*
Intrusion Alarm	JLC	JLC	District	District	District	Site Contractor	District	District	District
Security Cameras	JLC	JLC	JLC	JLC	JLC	Site Contractor	Fiber*	Fiber*	Fiber*
Energy Control System		District	District	District	District	Site Contractor	District	District	District

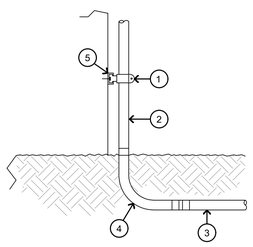
(1) DETAIL NOTES:

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) & MFGR. AS NOTED ON [PULLBOX SCHEDULE] [DRAWINGS].



3 TYPICAL PULLBOX DETAIL

NO SCALE



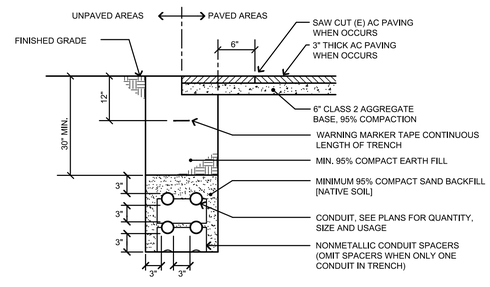
(1) DETAIL NOTES:

1. UNISTRUT BRACKET.
2. GALVANIZED RIGID STEEL CONDUIT. SEE PLANS FOR QUANTITY.
3. SCHEDULE 40 PVC.
4. WRAPPED GALVANIZED RIGID STEEL ELBOW AND UNDERGROUND RISER.
5. UNISTRUT CHANNEL.

GENERAL NOTES:
A. FOR WOOD STUD WALL:
USE ⅜" LAG BOLT WITH MIN. 2" EMBEDMENT INTO STUDS.
(ONE AT EACH END OF BRACKET)

2 UNDERGROUND CONDUIT RISER DETAIL

NO SCALE

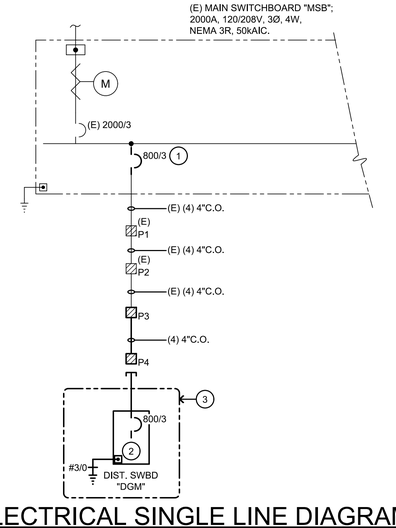


NOTES:

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) DETAIL NOTES:

1. BUILDING CONTRACTOR SHALL COORDINATE SHUT-DOWN WITH PG&E/DISTRICT TO MINIMIZE DOWNTIME. SEE INCREMENT 2 FOR WORK.
2. PROVIDED AS PART OF MODULAR GYM BUILDING. BUILDING CONTRACTOR SHALL TERMINATE FEEDERS AT MAIN BREAKER AND PROVIDE & INSTALL GROUND ROD CONNECTIONS. SEE INCREMENT 2 FOR WORK.
3. BUILDING CONTRACTOR SHALL TERMINATE ELECTRICAL FEEDERS AT SWITCHBOARD. SEE INCREMENT 2 FOR WORK.

GENERAL NOTES:
A. REFER TO CONTRACTOR RESPONSIBILITY MATRIX ON THIS SHEET FOR DESIGNATED WORK OF CONTRACTOR.

SINGLE LINE DIAGRAM LEGEND

(EXISTING)
(NEW)
(E) FLOOR/PAD MOUNTED EQUIPMENT

1 ELECTRICAL SINGLE LINE DIAGRAM

NO SCALE

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 47-3

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Engineer Seal

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

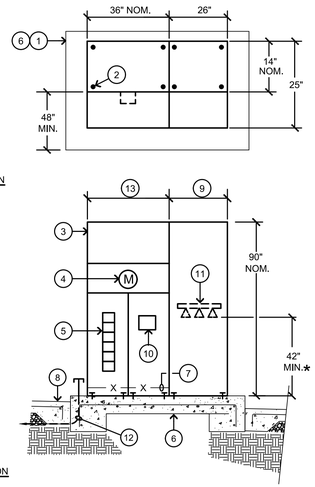
ELECTRICAL SINGLE LINE DIAGRAM, DETAILS & CONTRACTOR RESP. MATRIX

Project No.	Date
2106	September 12, 2022

CD

Drawing Number
E1.1

ADD
ALTERNATE #2



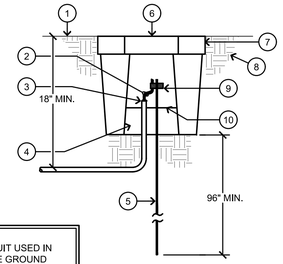
★ PER PG&E RULES, REGULATIONS & STANDARDS.

DETAIL NOTES:

1. 3" SIDES & BACK.
2. 5/8" DIA. HILTI KBTZ2-STAINLESS STEEL EXPANSION ANCHOR (ICC ESR-4266) EACH CORNER OF EACH SECTION WITH MIN. 2 3/4" EMBED INTO CONCRETE PAD. AND MIN. 6" EDGE DISTANCE. SEE ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS.
3. NEMA 3R ENCLOSURE (NOT SHOWN FOR CLARITY). MAXIMUM WEIGHT OF SWITCHBOARD IS 1000lbs.
4. PG&E METER & C.T.'S.★
5. FEEDER BREAKER (SEE SINGLE LINE FOR SIZES AND QUANTITIES).
6. CONCRETE PAD, SEE ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS.
7. FULL LENGTH CU. GND. BUS.
8. FINISHED GRADE WITH 95% COMPACT SOIL AND A CRUSHED ROCK BASE.
9. UNDERGROUND PULL SECTION.
10. MAIN BREAKER.
11. LANDING LUGS. ★
12. ¾"C.O. TO TELEPHONE TERMINAL BOARD. ★
13. METER/MAIN AND DISTRIBUTION SECTION. ★

4 MAIN SWITCHBOARD ELEVATION - "MSB"

NO SCALE



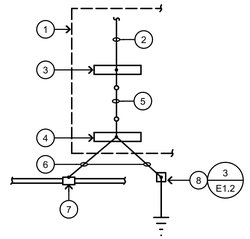
GENERAL NOTE:
WHERE METAL CONDUIT USED IN LIEU OF PVC, PROVIDE GROUND BUSHINGS & BONDS PER CODE

DETAIL NOTES:

1. FINISHED GRADE
2. GROUND CONDUCTOR
3. SEAL CONDUIT WATERTIGHT
4. GROUT BOTTOM MINIMUM 3"
5. ¾" x 10'-0" COPPER CLAD GROUND ROD
6. LID LABELED "GROUND ROD"
7. CHRISTY "F8" GROUND ROD BOX
8. UNDISTURBED EARTH
9. GROUND CLAMP
10. COAT ALL INSIDE SURFACES W/SEALANT

3 GROUND ROD BOX DETAIL

NO SCALE



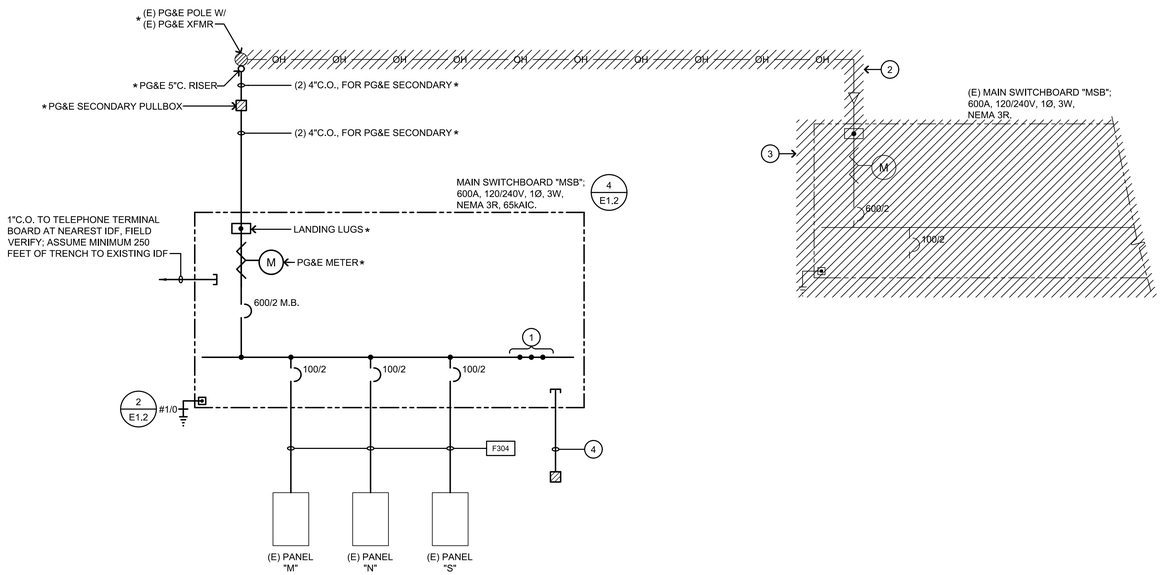
GENERAL NOTE:
IF AVAILABLE ON THE PREMISES AT EACH BUILDING OR STRUCTURE SERVED EACH OF THE FOLLOWING SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM:
a. METAL WATER PIPE,
b. METAL FRAME OF BUILDING,
c. GROUND RING,
d. OTHER ELECTRODES PER CEC 250-50

DETAIL NOTES:

1. MAIN ELECTRICAL SERVICE SWITCHBOARD.
2. INCOMING NEUTRAL.
3. SERVICE NEUTRAL LANDING LUG/NEUTRAL BUS.
4. GROUND BUS.
5. REMOVABLE MAIN SERVICE BONDING JUMPER FURNISHED WITH SWITCHBOARD CONNECTED BY CONTRACTOR.
6. 1" PVC WITH BARE COPPER GROUNDING ELECTRODE CONDUCTOR, SEE 1/E1.2 FOR REQUIREMENTS.
7. COLD WATER PIPE IN THE BUILDING WITHIN 5' OF ENTRANCE OF BUILDING THAT MEETS REQUIREMENTS OF CEC 250.52 (A)(1).
8. SERVICE GROUND ROD.

2 ELECTRICAL SERVICE GROUND

NO SCALE



DETAIL NOTES:

1. PROVIDE SWITCHBOARD WITH ADDITIONAL SPACE FOR (2) 200/2, (4) 100/2, (2) 60/2, AND (2) 20/2 BREAKERS.
2. PER GENERAL DEMOLITION NOTES ON SHEET E3.1; CONTRACTOR SHALL DEMOLISH EXISTING PG&E SECONDARY FEEDER AND CONDUITS COMPLETE. COORDINATE WITH DISTRICT TO MINIMIZE DOWNTIME. COORDINATE WITH PG&E FOR OVERHEAD PG&E SECONDARY AND PG&E METER REMOVAL.
3. PER GENERAL DEMOLITION NOTES ON SHEET E3.1; CONTRACTOR SHALL DEMOLISH EXISTING MAIN SWITCHBOARD "MSB" AND ASSOCIATED FEEDERS/BREAKERS/BRANCH CIRCUITS COMPLETE (INCLUDING UNDERGROUND CONDUITS/FEEDERS LEAVING SWITCHBOARD).
4. STUB (3) 3"C.O. AND (2) 2"C.O. OUT FROM MAIN SWITCHBOARD TO PULLBOX. SEE 1/E2.2 FOR PULLBOX LOCATION.

FEEDER SCHEDULE

DESIGNATION	AMPACITY	CONDUIT & CONDUCTORS SIZES
F304	100	1 1/4" C., 3 #2 & 1 #8 GND.
F313	600	(2) 3" C., EACH W/3 #350kcm & 1 #1/0 GND (PARALLEL).

SINGLE LINE DIAGRAM LEGEND

- (DEMOLISH)
- (EXISTING)
- (NEW)
- (E) FLOOR/PAD MOUNTED EQUIPMENT
- (N) FLOOR/PAD MOUNTED EQUIPMENT

1 ELECTRICAL SINGLE LINE DIAGRAM

★ PER PG&E RULES, REGULATIONS, AND STANDARDS

NO SCALE

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 47-3

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Engineer Seal

REGISTERED PROFESSIONAL ENGINEER
MATTHEW ANHORT
No. E21043
EXP. 3/31/23
ELECTRICAL
STATE OF CALIFORNIA

Architect Seal

Project Title

PIEDMONT MIDDLE SCHOOL
955 PIEDMONT ROAD
SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

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

No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

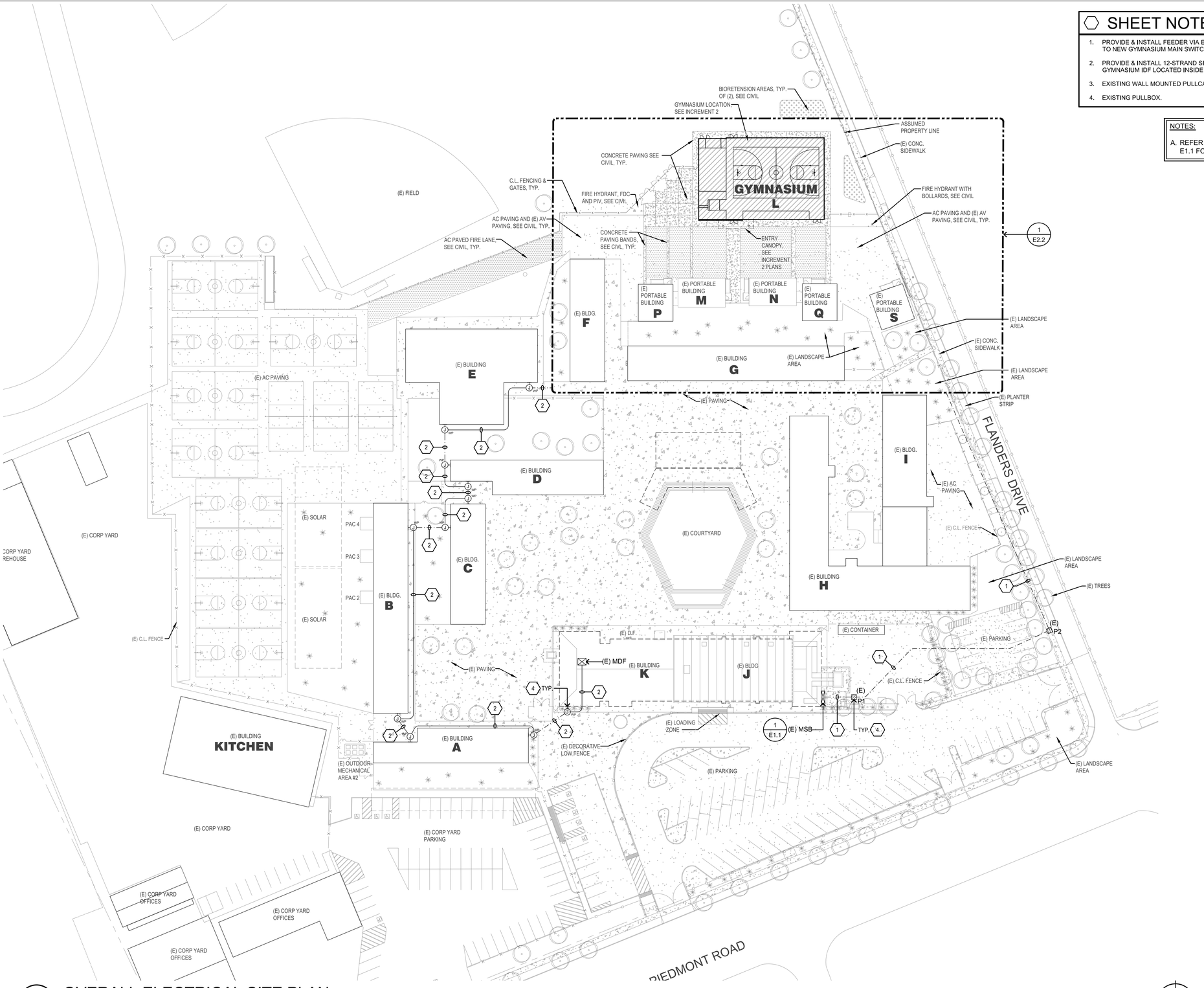
ELECTRICAL SINGLE LINE DIAGRAM & DETAILS

Project No. 2106

Date September 12, 2022

CD

Drawing Number E1.2



1 OVERALL ELECTRICAL SITE PLAN

SCALE: 1"=40'-0"

40' 0' 20' 40'

NORTH

SHEET NOTES

1. PROVIDE & INSTALL FEEDER VIA EXISTING (4) 4"C. FROM EXISTING MAIN SWITCHBOARD "MSB" TO NEW GYMNASIUM MAIN SWITCHBOARD IN ELECTRICAL ROOM.
2. PROVIDE & INSTALL 12-STRAND SINGLE MODE FIBER OPTIC CABLE FROM EXISTING MDF TO NEW GYMNASIUM IDF LOCATED INSIDE ELECTRICAL ROOM AND ROUTE VIA EXISTING 2" CONDUIT.
3. EXISTING WALL MOUNTED PULLCAN.
4. EXISTING PULLBOX.

NOTES:

A. REFER TO CONTRACTOR RESPONSIBILITY MATRIX ON SHEET E1.1 FOR DESIGNATED WORK OF CONTRACTOR.

Regulatory Agency Approval

BID SET

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Engineer Seal

REGISTERED PROFESSIONAL ENGINEER NAJIB ANWARY No. E21043 EXP. 3/31/23 ELECTRICAL STATE OF CALIFORNIA

Architect Seal

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No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

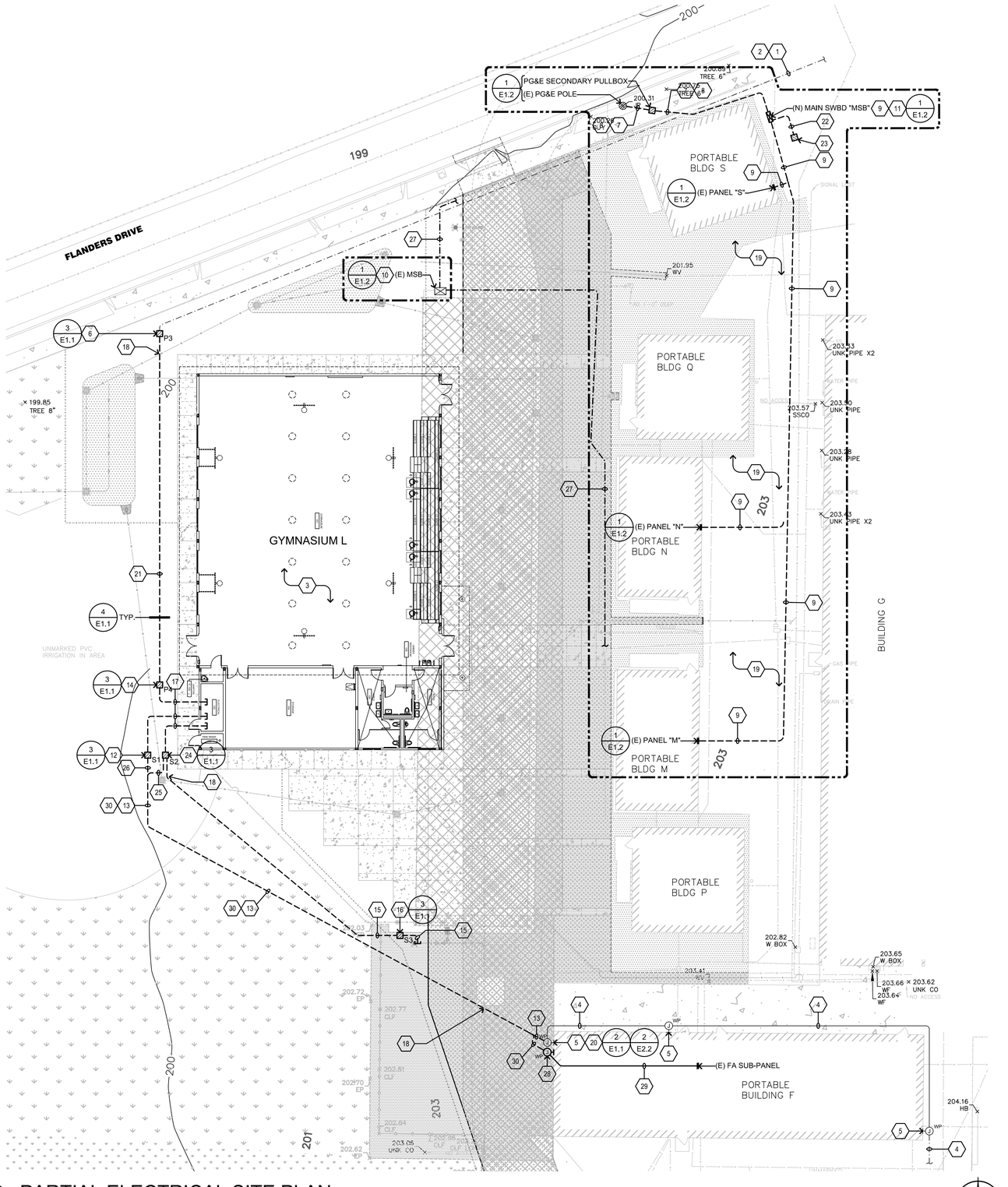
OVERALL ELECTRICAL SITE PLAN

Project No. 2106

Date September 12, 2022

CD

Drawing Number E2.1



1 PARTIAL ELECTRICAL SITE PLAN

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

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

NORTH

SHEET NOTES

1. SEE 1/E2.1 FOR CONTINUATION.
2. PROVIDE & INSTALL FEEDER VIA EXISTING (4) 4"C. FROM EXISTING MAIN SWITCHBOARD "MSB" TO NEW PULLBOX LOCATED NEAR EXTERIOR OF GYMNASIUM ELECTRICAL ROOM. SEE INCREMENT 2 FOR TERMINATION OF FEEDER.
3. NEW GYMNASIUM BUILDING; SEE INCREMENT 2 FOR WORK AND COORDINATION.
4. PROVIDE & INSTALL 12-STRAND SINGLE MODE FIBER OPTIC CABLE FROM EXISTING MDF TO NEW GYMNASIUM IDF LOCATED IN ELECTRICAL ROOM AND ROUTE VIA EXISTING 2" CONDUIT.
5. EXISTING WALL MOUNTED PULLCAN.
6. PROVIDE & INSTALL IN-GRADE CHRISTY #N52 PULLBOX WITH LID LABELED "ELECTRICAL". CONTRACTOR SHALL TERMINATE EXISTING STUBBED UP CONDUIT AT NEW PULLBOX. FIELD COORDINATE FOR EXACT LOCATION OF EXISTING STUBBED CONDUIT.
7. PER PG&E RULES, REGULATIONS, AND STANDARDS.
8. PROVIDE & INSTALL PG&E SECONDARY TO NEW MAIN SWITCHBOARD "MSB". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.2 FOR REQUIREMENTS.
9. PROVIDE & INSTALL FEEDER FROM NEW MAIN SWITCHBOARD "MSB" TO EXISTING PORTABLE PANELS. SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.2 FOR FEEDER QUANTITY, SIZE, AND REQUIREMENTS.
10. EXISTING MAIN SWITCHBOARD TO BE DEMOLISHED AFTER PG&E AND NEW MSB WORK.
11. NEW MAIN SWITCHBOARD TO BE INSTALLED TO REPLACE EXISTING SWITCHBOARD.
12. PROVIDE & INSTALL IN-GRADE CHRISTY #N30 PULLBOX WITH LID LABELED "SYSTEMS".
13. PROVIDE & INSTALL:
    - (1) 2"C.O. FOR FIBER OPTIC CABLE
    - (1) 2"C.O. FOR SECURITY CABLES.
14. PROVIDE & INSTALL IN-GRADE CHRISTY #N52 PULLBOX WITH LID LABELED "ELECTRICAL".
15. PROVIDE & INSTALL 1"C. FOR FIRE ALARM CABLES FOR PIV. CONTRACTOR SHALL TERMINATE FIRE ALARM CABLES AT PIV.
16. PROVIDE & INSTALL IN-GRADE CHRISTY #N09 PULLBOX WITH LID LABELED "FIRE ALARM".
17. CONTRACTOR SHALL STUB SYSTEM/ELECTRICAL CONDUITS IN ELECTRICAL ROOM. SEE INCREMENT 2 PLANS FOR WORK.
18. CONTRACTOR SHALL COORDINATE WHERE UNDERGROUND UTILITY INSTALLATION OCCURS (SEE CIVIL PLANS) AND ENSURE MINIMUM 12" SEPARATION BETWEEN WET UTILITIES AND ELECTRICAL/TELECOM CONDUITS.
19. CONTRACTOR SHALL MAINTAIN CLEARANCE FROM WET UTILITY AND TAKE CARE OF EXISTING ~~UNDERGROUND INFRASTRUCTURE. CONTRACTOR SHALL EXPOSE CABLE AS NEEDED~~ CONFLICT.
20. CONTRACTOR SHALL ENCASE EXPOSED CONDUITS IN METAL SHROUD.
21. PROVIDE & INSTALL (4) 4"C.O. FOR ROUTING OF FEEDERS. CONTRACTOR SHALL ROUTE CONDUIT AWAY FROM BIORETENTION AREA AND MODULAR GYMNASIUM. FEEDER INSTALLATION BY OTHERS. SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR REQUIREMENTS.
22. PROVIDE & INSTALL CONDUIT ONLY AND STUB AT PULLBOX LOCATION. SEE ELECTRICAL SINGLE LINE DIAGRAM ~~4/E1.2~~ FOR NUMBER OF CONDUITS.
23. PROVIDE & INSTALL IN-GRADE CHRISTY #N52 PULLBOX WITH LID LABELED "ELECTRICAL".
24. PROVIDE & INSTALL IN-GRADE CHRISTY #N16 PULLBOX WITH LID LABELED "FIRE ALARM".
25. PROVIDE & INSTALL (1) 2"C. FOR FIRE ALARM CABLES.
26. PROVIDE & INSTALL:
    - (1) 2"C.O. FOR FIBER OPTIC CABLE
    - (1) 2"C.O. FOR SECURITY CABLES
    - (1) 2"C.O. FOR SPARE.
27. EXISTING ELECTRICAL TRENCH LINE. CONTRACTOR SHALL PROTECT WIRES/CONDUIT DURING NEW WORK. SEE CIVIL PLANS FOR COORDINATION.
28. PROVIDE & INSTALL 18" SQ. x 6" DEEP, NEMA 3R PULLCAN.
29. PROVIDE & INSTALL (1) 1"C. WITH (2) #12 FIRE ALARM CABLES.
30. PROVIDE & INSTALL (1) 2"C. FOR FIRE ALARM CABLES AND (1) 2"C.O. FOR SPARE.

NOTES:

A. REFER TO CONTRACTOR RESPONSIBILITY MATRIX ON SHEET E1.1 FOR DESIGNATED WORK OF CONTRACTOR.

B. 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.

C. 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.

D. CONTRACTOR SHALL REPAIR/REFINISH SURFACE WHERE TRENCHING OCCURS TO EQUAL OR BETTER THAN EXISTING CONDITIONS.

E. 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.

LEGEND

ADD ALTERNATE #2

Regulatory Agency Approval

BID SET

NOT FOR CONSTRUCTION

DSA: 01-120466 / File: 47-3

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Project Title

PIEDMONT MIDDLE SCHOOL
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SAN JOSE, CA 95132
NEW MODULAR GYMNASIUM & SITE WORK
INCREMENT 1

Client

BERRYESSA UNION SCHOOL DISTRICT
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No	Revisions/Submissions	Date
	DSA Submittal V1	10/06/2022

Drawing Title

PARTIAL ELECTRICAL SITE PLAN

Project No. 2106

Date September 12, 2022

CD

Drawing Number E2.2