SHORT ELEMENTARY SCHOOL
ECE DEVELOPMENT CENTER

SAN RAFAEL CITY SCHOOL DISTRICT

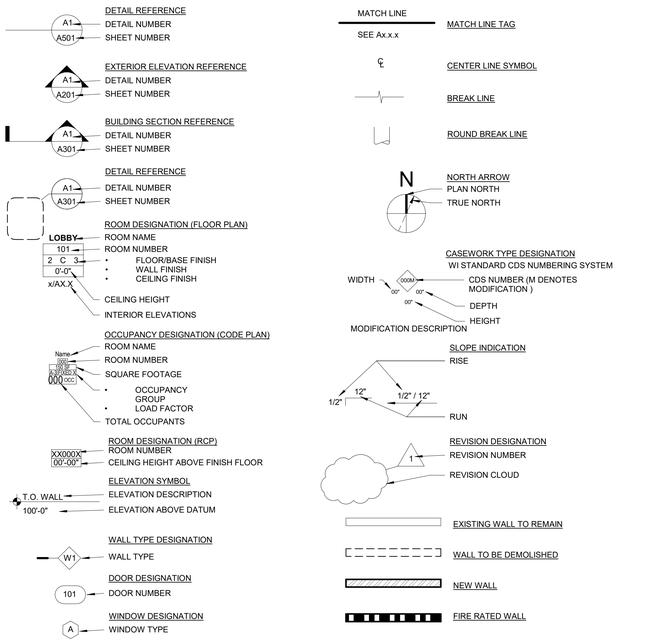
DSA APP: 01-121552 FILE NO: 21-39 PTN: 65458-70

LIST OF ABBREVIATIONS

A		FO	FINISHED OPENING	PLUMB	PLUMBING
A/C	AIR CONDITIONING	FOC	FACE OF CONCRETE	PR	PAIR
AD	AREA DRAIN	FOM	FACE OF MASONRY	PSI	POUNDS PER SQUARE INCH
AFF	ABOVE FINISHED FLOOR	FOS	FACE OF STUD	PSF	POUNDS PER SQUARE FOOT
AHU	AIR HANDLING UNIT	FOW	FACE OF WALL	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	FRG	FIBER REINFORCED GYPSUM		
ANOD	ANODIZED	FSP	FIRE STANDPIPE	**Q**	
ARCH	ARCHITECT	FT	FEET	QT	QUARRY TILE
@	AT	FV	FIELD VERIFY		
				R	
B		**G**		R	RISER OR RADIUS
BD	BOARD	GA	GAUGE	RAD	RADIUS
BLDG	BUILDING	GALV	GALVANIZED	RCP	REFLECTED CEILING PLAN
BO	BOTTOM OF	GFRC	GLASS-FIBER-REINFORCED CONCRETE	RD	ROOF DRAIN
		GFRG	GLASS-FIBER-REINFORCED GYPSUM	REF	REFRIGERATOR
C		GL	GLASS	REQD	REQUIRED
C	CELSIUS	GWB	GYPSUM WALL BOARD	REV	REVISION
CH	COAT HOOK	GYP	GYPSUM		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED			RH	RELATIVE HUMIDITY
		H		RM	ROOM
CG	CORNER GUARD	H	HIGH	RO	ROUGH OPENING
CI	CONTINUOUS INSULATION	HB	HOSE BIBB	RTU	ROOF TOP UNIT
CJ	CONTROL JOINT	HDR	HEADER	RWL	RAIN WATER LEADER
CL	CENTERLINE	HM	HOLLOW METAL		
CLG	CEILING	HPT	HIGH POINT	**S**	
CLO	CLOSET	HR	HOUR	SAM	SMOKE DETECTOR
CLR	CLEAR	HT	HEIGHT		SELF ADHESIVE MEMBRANE
CMU	CONCRETE MASONRY UNIT			SCHED	SCHED SCHEDULE
COL	COLUMN	**I**		SECT	SECTION
CONC	CONCRETE	ID	INSIDE DIAMETER; INSIDE DIMENSION	SIM	SIMILAR
CONT	CONTINUOUS			SPEC	SPECIFICATION
CORR	CORRIDOR	IN	INCH	SS	STAINLESS STEEL
CT	CERAMIC TILE	INFO	INFORMATION	STD	STANDARD
CTJ	CONSTRUCTION JOINT	INT	INTERIOR	STS	SELF TAPPING SCREW
CUH	CABINET UNIT HEATER			STRUCT	STRUCTURAL
		J			
D		JAN	JANITOR	**T**	
D	DEEP			T	TREAD
DEG	DEGREE	**K**	(NOT USED)	TEL	TELEPHONE
DEMO	DEMOLITION			TEMP	TEMPORARY
DF	DRINKING FOUNTAIN			THK	THICK
DIA	DIAMETER	**L**		TOC	TOP OF CONCRETE
DIM	DIMENSION	LAB	LABORATORY	TOM	TOP OF MASONRY
DN	DOWN	LAV	LAVATORY	TOP	TOP OF PARAPET
DS	DOWNSPOUT	LBS	POUNDS	TOS	TOP OF SLAB; TOP OF STEEL
DWGS	DRAWINGS	LLH	LONG LEG HORIZONTAL	TOW	TOP OF WALL
		LLV	LONG LEG VERTICAL	TYP	TYPICAL
E		LPT	LOW POINT	TO	TOP OF
EA	EACH				
EJ	EXPANSION JOINT	**M**		**U**	
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MACH RM	MACHINE ROOM	UL	UNDERWRITER'S LABORATORIES
		MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
EL	ELEVATION	MFR	MANUFACTURER		
ELEC	ELECTRICAL	MECH	MECHANICAL	**V**	
		MEZZ	MEZZANINE	VCT	VINYL COMPOSITE TILE
ELEV	ELEVATOR	MIN	MINIMUM	VERT	VERTICAL
EOS	EDGE OF SLAB	MO	MASONRY OPENING	VEST	VESTIBULE
ERD	EXISTING ROOF DRAIN			VIF	VERIFY IN FIELD
EQ	EQUAL	**N**			
EQUIP	EQUIPMENT	NA	NOT APPLICABLE	**W**	
EWC	ELECTRIC WATER COOLER	NIC	NOT IN CONTRACT	W	WITH
EXIST	EXISTING	NOM	NOMINAL	W/O	WITHOUT
EXP	EXPOSED	NTS	NOT TO SCALE	WD	WOOD
EXT	EXTERIOR			WH	WALL HYDRANT
		O		WP	WORKING POINT
F		OC	ON CENTER	WRB	WEATHER RESISTIVE BARRIER
F	FAHRENHEIT	OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**X,Y,Z**	(NOT USED)
FA	FIRE ALARM				
FACP	FIRE ALARM CONTROL PANEL	OFD	OVERFLOW DRAIN		
FDC	FIRE DEPARTMENT CONNECTION	OH DR	OVERHEAD DOOR		
FD	FLOOR DRAIN	OPH	OPPOSITE HAND		
FEC	FIRE EXTINGUISHER CABINET	OPP	OPPOSITE		
FE	FIRE EXTINGUISHER	ORIG	ORIGINAL		
FG	FINISH GRADE				
FHC	FIRE HOSE CABINET	**P**			
FIN	FINISH	P LAM	PLASTIC LAMINATE		
FLR	FLOOR	PLAS	PLASTER		
FND	FOUNDATION				

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NFP 70 AND 2022 CALIFORNIA AMMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)

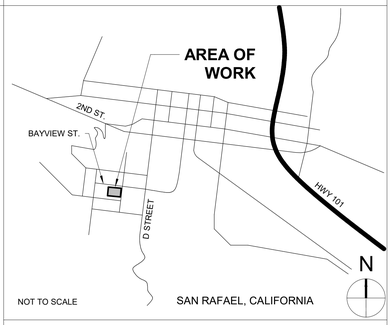
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

VICINITY MAP



SCOPE OF WORK

THE SCOPE OF THIS PROJECT INVOLVES BUT IT'S NOT LIMITED TO:

- THE REPLACEMENT OF (E) PLAY EQUIPMENT NEXT TO THE (E) GRASS AREA WITH (N) EQUIPMENT.

- THE ADDITION OF (N) FABRIC SHADE STRUCTURE

- KIDS RESTROOMS AT B1, G1, B2 AND G2 TO BE UPDATED TO NEW TK HEIGHT ACCESSORIES

- NEW MAINTENACE GATE AND FENCING WORK

- UPDATES TO PATH OF TRAVEL

- PAINT ALL EXISTING CAMPUS BUILDINGS EXTERIORS, INCLUDING PORTABLES. THE SITE WILL BE PROPERLY PREPARED FOR PAINTING WORK INCLUDING SANDING, PATCHING AND POWER WASHING ALL APPROPRIATE SURFACES TO BE PAINTED.

CLIMATE ZONE: 15 & 17

- PROTECT FIRE ALARM DEVICES IN PLACE
- CONTRACTOR TO PROTECT (E) BUILDING NAMES DURING PAINTING

DSA DEFERRED SUBMITTALS

NONE

GENERAL NOTES

1. PROJECT MUST COMPLY WITH TITLE 24, PARTS 1-9 AND 12 IN ACCORDANCE WITH TITLE 24, PART 1, 4-305
2. CONTRACTOR TO BE IN COMPLIANCE WITH CFC CH. 33 - FIRE SAFETY DURING CONSTRUCTION & DEMOLITION.
3. TITLE 24, ALL APPLICABLE PARTS REFFERED TO BY THE PLANS AND SPECIFICATIONS MUST BE KEPT ON THE SITE DURING CONSTRUCTION.
4. CHANGES TO STRUCTURAL, ACCESSIBILITY OR FIRE LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN SECTION 4-338, PART 1, CAC, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.
5. ALL ADDENDA MUST BE STAMPED AND SIGNED BY ARCHITECT/ENGINEER OF RECORD AND DELEGATED DESIGN PROFESSIONAL WHEN APPLICABLE, AND APPROVED BY DSA.
6. ALL SUBSTITUTIONS AND REQUESTS FOR INFORMATION (RFFS) THAT AFFECT STRUCTURAL SAFETY, FIRE LIFE SAFETY, ACCESS COMPLIANCE OR ENERGY (AS APPLICABLE) SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL AS A CONSTRUCTION CHANGE DOCUMENT.
7. PROJECT INSPECTOR AND TESTING LAB MUST BE EMPLOYED BY OWNER AND APPROVED BY A/E OF RECORD AND DSA.
8. PROJECT INSPECTOR SHALL HAVE AND MAINTAIN ON THE JOB AT ALL TIMES, THE EDITION OF TITLE 24, ALL APPLICABLE PARTS REFERRED TO IN THE PLANS AND SPECIFICATIONS PER TITLE 24, PART 1, 4-342. (b)3.
9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE CONSTRUCTION MANAGER BY THE MEANS OF A REQUEST FOR INFORMATION (RFI) OR AS PART OF THE APPLICABLE SHOP DRAWING / SUBMITTAL.
10. CONTRACTOR IS RESPONSIBLE FOR INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND/OR REINSTALLATION OF ALL EXISTING ITEMS, OR PORTIONS OF THE EXISTING CONSTRUCTION WHETHER SHOWN OR NOT.
11. ALL WORK SHALL BE IN COMPLETE CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OR IS OTHERWISE OUTLINED IN THE SPECIFICATIONS.
12. USE OF ANY MATERIALS CONTAINING LEAD OR ASBESTOS IS PROHIBITED.
13. THE TERM "TYPICAL" OR "(TYP.)" SHALL BE CONSTRUED TO MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
14. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY 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, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING & SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.(SECTION 4 - 317 (c), PART 1, TITLE 24, CCR).
15. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
16. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENT AND OR PERSONNEL
17. FIRE SAFETY DURING CONSTRUCTION & DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SAFETY DURING DEMOLITION AND CONSTRUCTION MUST COMPLY WITH CFC CHAPTER 33.

PROJECT TEAM

OWNER

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SAN RAFAEL, CA 94903

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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. 01-121552 File No. 21-39)

[X] The PC drawings or sheets listed on the cover or index sheet (signed by other than the Architect of Record)

[ ] 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:

[X] All PC drawings listed on the cover or index sheet and not sealed/signed by the AOR

[ ] This drawing or page\

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

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

02/09/24
Signature Date

Architect or Engineer designated to be in general responsible charge

Trent Sommers
Name

C-33589
License Number

January 31, 2025
Expiration Date

SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS [X] FLS [X] ACS [X]
DATE: 2/21/2024

DSA APP. NO: 01-121552

CA+SA STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT TRENT S SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOLS

PROJECT No.: 2023-014

CONSTRUCTION DOCUMENTS

COVER PAGE AND GENERAL INFORMATION

A0.0

SHORT ELEMENTARY SCHOOL
ECE DEVELOPMENT CENTER

PREPARED FOR: SAN RAFAEL CITY SCHOOL DISTRICT

SAN RAFAEL, CALIFORNIA

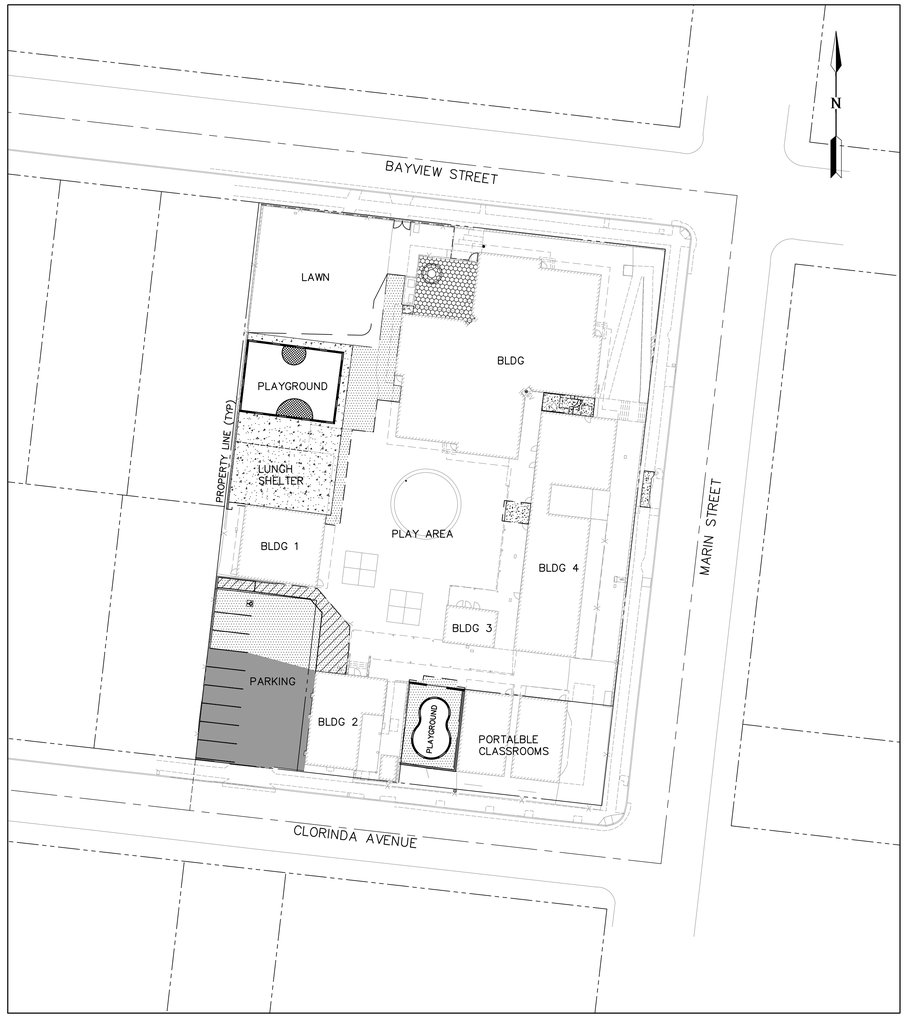
PROJECT NOTES

1. ALL ABANDONED UNDERGROUND PIPELINES EXPOSED SHALL BE REMOVED OR ADEQUATELY PLUGGED UPON CONSULTATION WITH THE PROJECT CIVIL ENGINEER
2. DUST CONTROL AND NOISE CONTROL: AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION, THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON THE SITE, SHALL PREVENT THE FORMATION OF ANY AIRBORNE NUISANCE BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFINE DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTOR'S ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES OR CHARGES RESULTING FROM DUST NUISANCE. IN ADDITION, THE NOISE LEVEL OF THE CONTRACTOR'S OPERATIONS SHALL BE KEPT TO A MINIMUM AS PER CITY OF SAN RAFAEL SPECIFICATIONS.
3. A PRE-CONSTRUCTION MEETING SHALL BE HELD AT THE SITE 48 (FORTY-EIGHT) HOURS PRIOR TO THE START OF WORK WITH THE FOLLOWING PEOPLE PRESENT: OWNER, CONTRACTORS, ARCHITECTS, ENGINEERS AND DISTRICT INSPECTOR.
4. ALL WORK SHALL BE DONE BETWEEN THE HOURS OF 7:00 A.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY, AND SATURDAY FROM 9:00 A.M. TO 6:00 P.M. AND NO CONSTRUCTION ACTIVITY WILL BE ALLOWED ON SUNDAY OR FEDERAL HOLIDAYS.
5. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
6. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE SRCSD, AT THE CONTRACTOR'S SOLE EXPENSE.
7. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
8. TRAFFIC CONTROL MAINTENANCE AND OPERATION SHALL COMPLY WITH THE FOLLOWING STATE STANDARD SPECIFICATIONS: SECTION 7-1.09 "PUBLIC SAFETY", 7-1.08 "PUBLIC CONVENIENCE", AND SECTION 12 "CONSTRUCTION AREA TRAFFIC CONTROL DEVICES".
9. MANHOLES, WATER VALVE BOXES AND CLEAN OUT FRAMES AND COVERS SHALL BE BROUGHT TO FINISHED GRADE BY THE CONTRACTOR AFTER PAVING IS COMPLETED.
10. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO 2022 CALIFORNIA BUILDING CODE, CITY & COUNTY STANDARDS AND STATE STANDARD SPECIFICATIONS (LATEST REVISIONS). NO REVISION OR DEVIATION FROM THESE PLANS WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT U.S.A. (800-642-2444) AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION.
12. ANY UTILITIES THAT MAY HAVE TO BE RELOCATED SHALL BE DONE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE UTILITY AGENCY AND THE ENGINEER.
13. VERIFY ALL GRADES AGAINST EXISTING IMPROVEMENTS, PRIOR TO CONSTRUCTION.
14. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
15. IN THE EVENT OF ANY DISCREPANCY BETWEEN ANY DRAWINGS AND THE FIGURES WRITTEN THEREON, THE FIGURES SHALL BE TAKEN AS CORRECT.
16. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY RISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
17. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY CONDITIONS AT THE PROJECT SITE.
18. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
19. CONTRACTOR SHALL WATER TEST PAVEMENT. ANY "BIRD BATHS" COLLECTING WATER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE, AND RETESTED.

GRADING NOTES

1. ALL GRADING WORK SHALL BE MONITORED AND TESTED BY THE PROJECT SOILS ENGINEER TO BE RETAINED BY THE OWNER.
2. THE SITE SHALL BE CAREFULLY INSPECTED BY THE CONTRACTOR TO DETERMINE THE EXTENT OF THE CLEARING, GRUBBING AND GRADING WORK TO BE DONE.
3. ALL GRADING SHALL BE DONE TO WITHIN ±0.10 FEET TO THE SPECIFIED ELEVATIONS.
4. POSITIVE SOIL STABILIZATION AND EROSION CONTROL MEASURES SHALL BE INSTITUTED BY THE CONTRACTOR AS THE WORK PROGRESSES.
5. ALL SLOPES SHALL BE 3:1 UNLESS OTHERWISE INDICATED. THE TRANSITION FROM CONSTRUCTED SLOPES TO NATURAL GROUND SHALL BE GRADED TO A GENTLY ROUNDED CONTOUR AND NOT LEFT AS AN ABRUPT CHANGE.
6. PRIOR TO THE CONTRACTOR MAKING ANY FIELD CHANGES IN GRADES, HE SHALL HAVE THE APPROVAL OF THE ENGINEER AND OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY OF ANY DIFFERENCES IN TOPOGRAPHY FROM THAT SHOWN ON THIS PLAN WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR EFFECT THE EARTHWORK QUANTITY.
8. THE CONTRACTOR SHALL ESTIMATE THE EARTHWORK QUANTITIES TO HIS/HER SATISFACTION PRIOR TO THE START OF CONSTRUCTION AND SHALL ARRANGE FOR DISPOSAL OF EXCESS MATERIAL OR ACQUISITION OF IMPORT MATERIAL AS REQUIRED TO COMPLETE THE GRADING AS SHOWN ON THIS PLAN. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXPORT OR IMPORT REQUIRED.

SHEET NO.	SHEET INDEX DESCRIPTION
C1.0	TITLE SHEET & NOTES
C2.0	DEMOLITION PLAN
C3.0	GRADING & DRAINAGE PLANS
C4.0	CONSTRUCTION DETAILS
C5.0	EROSION & SEDIMENT CONTROL PLAN



SITE PLAN

SCALE: 1"=30'

VICINITY MAP

LEGEND

PROPOSED		EXISTING	
AB	AGGREGATE BASE		
AC	ASPHALTIC CONCRETE		DRAIN INLET
AD	AREA DRAIN		FIRE HYDRANT
BW	BOTTOM OF WALL		FINISHED FLOOR
CONC	CONCRETE		IRRIGATION CONTROL VALVE
DI	DRAIN INLET		
DS	DOWNSPOUT		
(E)	EXISTING		
EG	EXISTING GRADE		SPOT GRADE
FF	FINISHED FLOOR		POWER POLE
FG	FINISHED GRADE		
FL	FLOW LINE		TREE
GB	GRADE BREAK		
INV	INVERT		SURVEY CONTROL POINT
LF	LINEAR FEET		
PB	PULLBOX		
P.O.T.	PATH OF TRAVEL		FENCE
S	SLOPE		
SD	STORM DRAIN		PROPERTY LINE
S.A.D.	SEE ARCHITECTURAL DRAWINGS		CENTER LINE
TC	TOP OF CURB		
TG	TOP OF GRATE		
TW	TOP OF WALL		
TYP.	TYPICAL		
140	MARIN COUNTY STD DWG #		
	HOT MIX ASPHALT (HMA)		
	PORTLAND CEMENT CONCRETE (PCC)		
	AC REPLACEMENT		

SURVEY NOTES:
THE TOPOGRAPHIC MAP SHOWN HEREON WAS SURVEYED BY KIER+WRIGHT IN DECEMBER 2023.

BENCHMARK: HT1770, LOCATED 140 SOUTHWEST OF THE INTERSECTION OF WEST END AVENUE AND GREENFIELD AVENUE, AT A 2X2-FOOT CATCH BASIN, SET IN THE CONCRETE CURBING ABOVE THE BOX, 18 FEET EAST OF THE CENTERLINE OF THE DRIVEWAY AT 31 GREENFIELD AVENUE, 10.7 FEET NORTH OF A POWERLINE POLE, AND 0.6 FOOT SOUTHEAST OF THE SOUTHEAST CORNER OF THE INLET.

ELEVATION: 73.78 FEET (NAVD88)

BASIS OF BEARING: THE BEARING OF SOUTH 06°30'00" WEST TAKEN ON THE WESTERLY RIGHT OF WAY LINE OF CLARK STREET AS SHOWN ON THAT CERTAIN RECORD OF SURVEY FILED FOR RECORD ON JULY, 1967, IN BOOK 6 OF MAPS AT PAGE 81, OFFICIAL RECORDS OF MARIN COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.

30 0 15 30

1 inch = 30 ft.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

DSA APP. NO: 01-121552

CA SA STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT TRENT S SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

CHAUDHARY & ASSOCIATES, INC.
ENGINEERS SURVEYORS INSPECTORS
211 GATEWAY ROAD WEST, SUITE 204
NAPA, CALIFORNIA 94558
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WWW.CHAUDHARY.COM

LICENSED PROFESSIONAL ENGINEER
RAKEEN E. BRIEF
C 94100
CIVIL
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE: FEB. 9, 2024

PROJECT No.: 2023-014

DSA SUBMITTAL

TITLE SHEET & NOTES

C-1.0

(E) FENCING TO REMAIN (TYP)

(E) RAISED PLANTER TO BE REMOVED. CONTRACTOR TO VERIFY NO INFRASTRUCTURE EXISTS BENEATH COVER AND REPORT FINDINGS TO ENGINEER AND ARCHITECT.

REMOVE SECTION OF (E) RETAINING WALL

PROTECT FACE OF (E) BLDG (TYP)

(E) AC PAVEMENT TO BE REMOVED
(E) AB TO REMAIN

AC PAVEMENT AND AB TO REMAIN, AREA FOR SEALCOATING

BUILDING C

(E) PLAY AREA TO BE REMOVED

Play Area Structures

PROTECT (E) TREES TO REMAIN (TYP).

LAWN

BASKETBALL POLE TO BE REMOVED.

(E) PULL BOXES TO REMAIN (TYP)

BUILDING D

(E) FENCE & GATES TO REMAIN (TYP)

BASKETBALL POLE TO BE RELOCATED

(E) CONC DOOR LANDING TO REMAIN

(E) EQUIPMENT ENCLOSURE TO REMAIN

(E) 12" TREE AND TREE WELL TO REMAIN

REMOVE & SALVAGE (E) PAVERS FOR REUSE

AC PLAY AREA

(E) CONCRETE RETAINING WALLS TO REMAIN

PROTECT (E) TREES TO REMAIN (TYP).

REMOVE (E) WOODEN RETAINING WALL

(E) PLAY AREA TO BE REMOVED

CLORINDA AVENUE

BAYVIEW STREET

RESTROOMS

BUILDING A

PROTECT (E) COLUMN TO REMAIN

(E) CONC DOOR LANDINGS TO REMAIN

PORTABLE CLASSROOM

PORTABLE CLASSROOM

BUILDING B

PROTECT FACE OF (E) BLDG (TYP)

REMOVE (E) GATE

REMOVE DAMAGED SECTION OF (E) SIDEWALK

PROTECT (E) TREE TO REMAIN (TYP).

MARIN STREET

DEMOLITION LEGEND

- REMOVE (E) AC PAVEMENT/CONCRETE/SURFACING
- REMOVE (E) CURB/GUTTER/FEATURE
- REMOVE (E) TREE

CONTRACTOR MUST ALSO REFERENCE ARCHITECTURAL SITE PLAN AND DETAILS.

10 0 5 10
1 inch = 10 ft.

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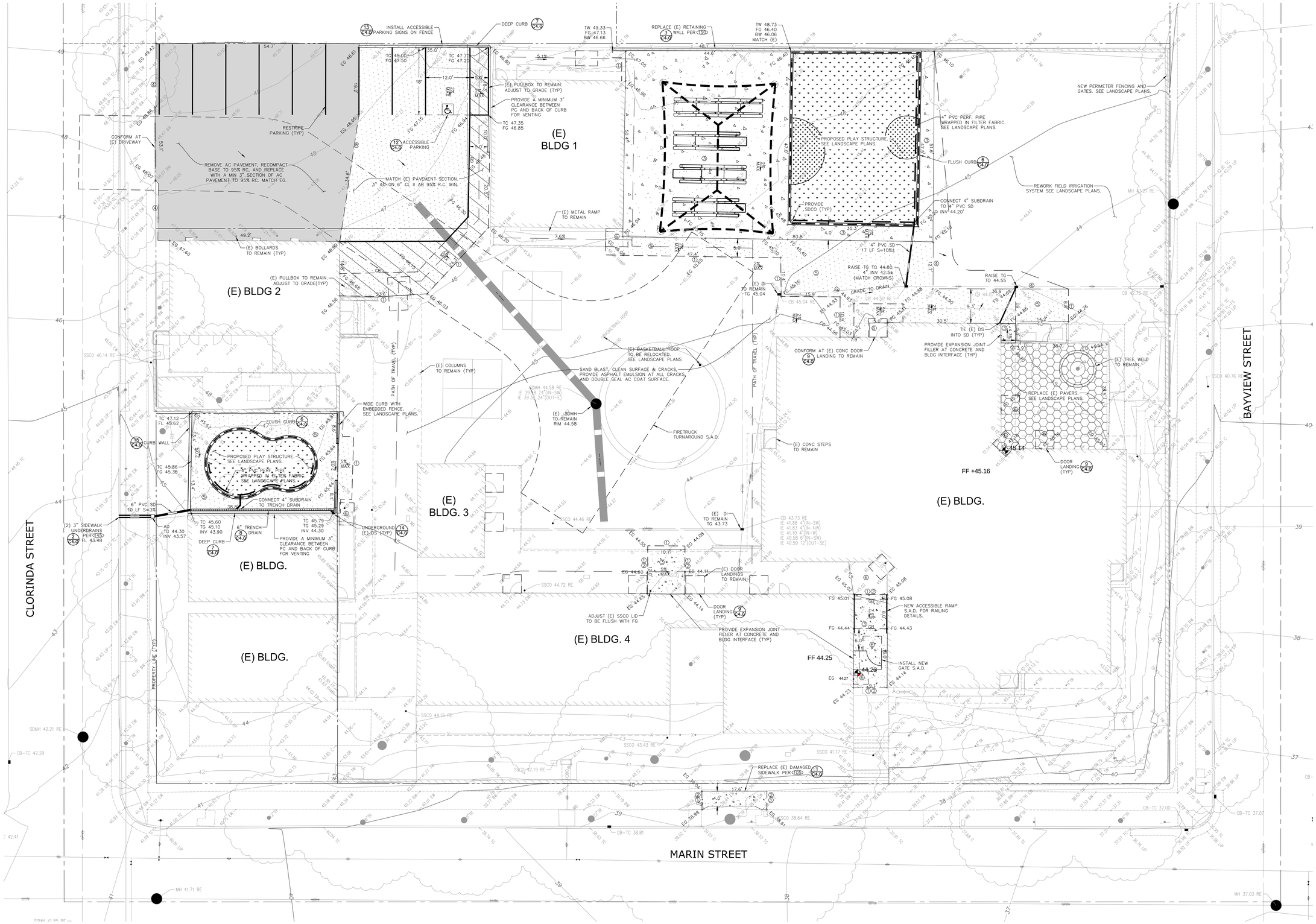
DEMOLITION PLANS

C-2.0



(E) PAVERS TO BE REPLACED

(N) CONCRETE PATH

(N) SEALCOATING

(N) GRASS AREA

REMOVE (E) AC PAVEMENT, RECOMPACT BASE TO 95% RC AND REPLACE WITH A (N) 3" AC PAVEMENT TO 95% RC. MATCH EG.

CONSTRUCTION NOTES:

1. SAWCUT & CONFORM
2. PROVIDE REBAR DOWELING PER DETAIL 4 SHEET C4.0.
3. INSTALL 4" PCC ON 4" CLASS 2 AB COMPACTED TO 95% RELATIVE COMPACTION. PROVIDE #4 REBAR 24" O.C. EACH WAY.
4. PROVIDE PAVEMENT EDGE PROTECTION PER DETAIL 5 SHEET C4.0
5. INSTALL 2" AC ON 6" CLASS 2 AB 95% RELATIVE COMPACTION MIN
6. LANDINGS SHALL BE 2% MAX SLOPE IN ANY DIRECTION.

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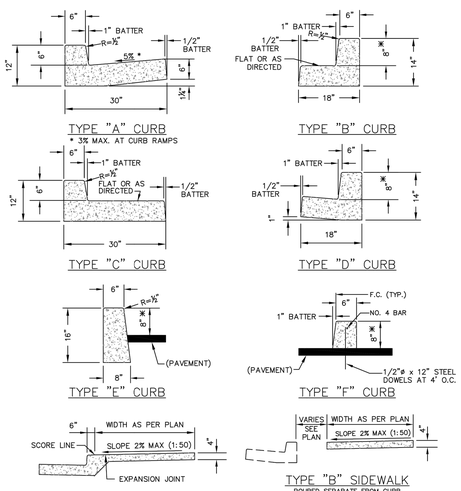
GRADING PLANS

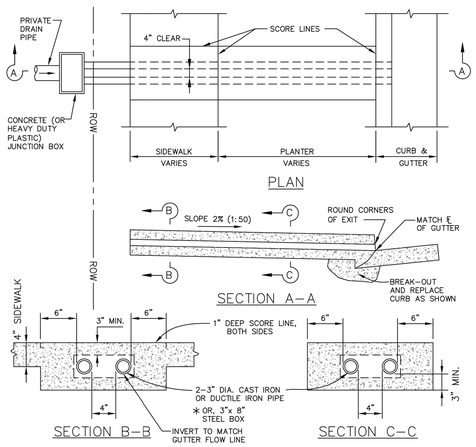
C-3.0



NOTES:

1. SEE DRAWING NO. 100 FOR GENERAL REQUIREMENTS.
2. *8" CURB HEIGHT UNLESS 6" HEIGHT APPROVED BY AGENCY ENGINEER.

105 - CURB, GUTTER, & SIDEWALK (1)
NO SCALE

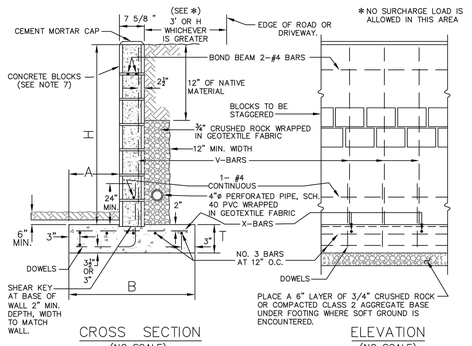


NOTE:

1. CONCRETE SHALL BE CLASS "B" (5 SACK MIX).
2. PLASTIC PIPE IS NOT ALLOWED.
3. WHERE UNDERDRAINS ARE INSTALLED AT LOCATIONS WHERE CURB, GUTTER AND SIDEWALK IS EXISTING, REMOVE 20" OF CURB AND 1 SQUARE OF SIDEWALK BETWEEN SAW-CUTS. REPLACE CURB AS SHOWN IN SECTION A-A ABOVE.
4. NO CONCRETE SHALL BE PLACED PRIOR TO FORM INSPECTION BY THE AGENCY ENGINEER.
5. ALL CONCRETE SHALL BE BROOM FINISHED.

*6. IF REQUIRED BY AGENCY ENGINEER FOR HEAVY FLOWS.

145 - SIDEWALK UNDERDRAIN (2)
NO SCALE

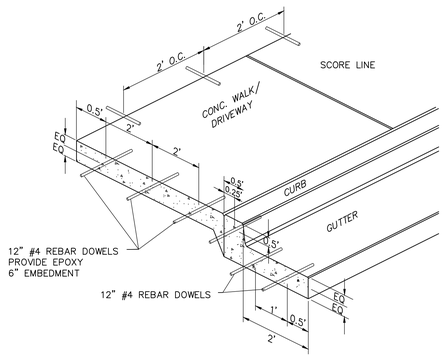


H	A	B	T	V-BARS	X-BARS
FT.-IN.	IN.	FT.-IN.	IN.		
3'-4"	8"	2'-4"	9"	NO. 3 AT 32"	NO. 3 AT 24"
4'-0"	10"	2'-9"	9"	NO. 4 AT 32"	NO. 3 AT 24"

NOTES:

1. CONCRETE FOR FOOTING TO BE CLASS "A" (6 SACK 3000 PSI) WITH 3/4" AGGREGATE AND 4 INCH MAX. SLUMP.
2. FILL ALL CELLS WITH 7 SACK CONCRETE WITH 3/8" AGGREGATE OR 3:1 MORTAR.
3. DOWELS SHALL BE SAME IN SIZE AND SPACING AS V-BARS. THEY SHALL PROJECT 40 BAR DIAMETERS, 24 INCH MIN. INTO THE CELLS AND EXTEND TO THE TOE OF FOOTING. LAPPING BARS SHALL BE TIED.
4. WALLS SHALL NOT BE BACKFILLED UNTIL 7 DAYS AFTER CELLS ARE FILLED.
5. WALLS OVER 100' LONG SHALL HAVE VERTICAL EXPANSION JOINTS. WALLS OVER 50' LONG SHALL HAVE VERTICAL CONTRACTION JOINTS. SEE AGENCY ENGINEER FOR DETAILS.
6. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND STEEL HAVE BEEN INSPECTED AND APPROVED BY THE AGENCY ENGINEER.
7. BLOCKS SHALL BE GRADE N OR BETTER (f'm=1,500 PSI).
8. NO FRONT FACE WEEP HOLES ALLOWED IF SIDEWALK OR PAVEMENT SLOPES AWAY FROM WALL.
9. SUBJECT TO THE APPROVAL OF AGENCY ENGINEER, DESIGN FOR DRAINAGE CONVEYANCE BEHIND WALL MAY BE MODIFIED TO UTILIZE PREFABRICATED DRAINAGE DEVICES.
10. CEMENT MORTAR MUST MEET A MINIMUM COMPRESSIVE STRENGTH OF 1,800 psi IN 28 DAYS. THE USE OF PLASTIC CEMENT IS NOT PERMITTED FOR MORTAR.
11. MATERIALS FOR BRICKS SHALL BE CEMENT BLOCK CONSTRUCTION.

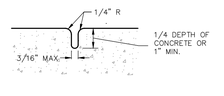
150 - RETAINING WALL (3)
NO SCALE



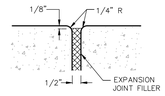
NOTES:

1. DOWELS SHALL BE INSTALLED AS SHOWN BETWEEN NEW SIDEWALK AND EXISTING CURB AND GUTTER, OR VICE VERSA.
2. DOWELS SHALL BE INSTALLED AS SHOWN AT BOTH ENDS OF NEW IMPROVEMENTS AS THEY TIE INTO EXISTING SIDEWALK, AND/OR CURB AND GUTTER.
3. THIS DETAIL SHALL BE USED WHENEVER NEW PCC MEETS EXISTING PCC.

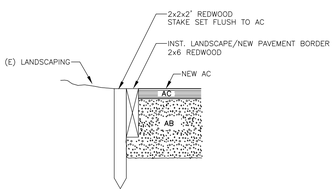
DOWELING DETAIL (4)
NO SCALE



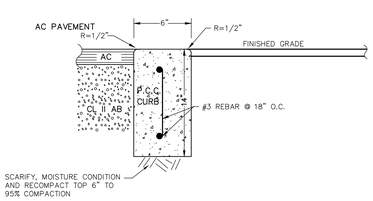
DEEP JOINT DETAIL
CROSS SECTION



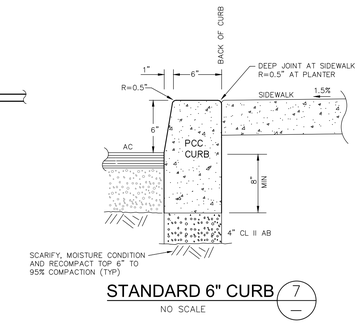
EXPANSION JOINT DETAIL
CROSS SECTION



EDGE PAVEMENT DETAIL (5)
NO SCALE

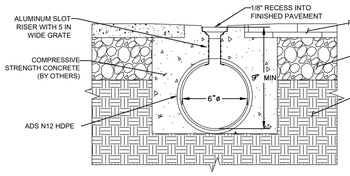


FLUSH CURB (6)
NO SCALE

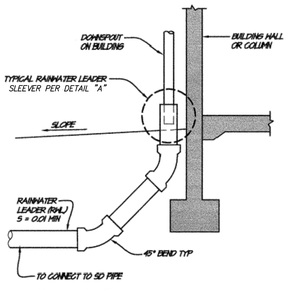


STANDARD 6" CURB (7)
NO SCALE

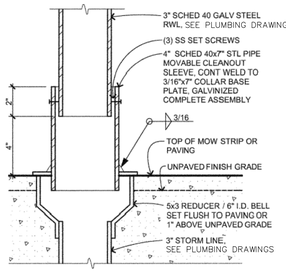
NOTE: THIS DETAIL IS NOT PART OF DSA STRUCTURAL APPROVAL



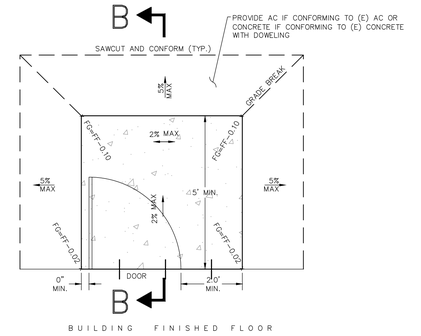
ADS DURASLOT 1460B TRENCH DRAIN W/ ADA GRATE OR APPROVED EQUAL (8)
NO SCALE



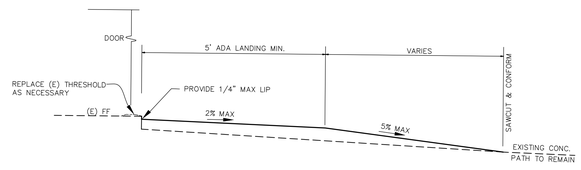
DOWNSPOUT CONNECTION TO SD (14)
NO SCALE



DETAIL "A"

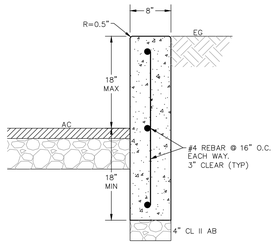


PLAN VIEW

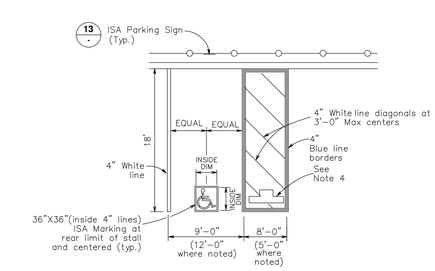


SECTION B-B PROFILE VIEW

TYPICAL LANDING AT ACCESSIBLE DOORS (9)
NO SCALE

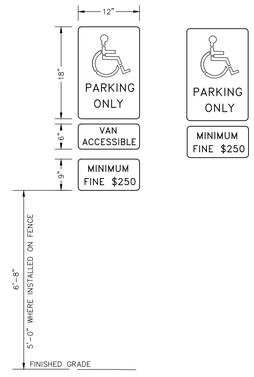


CURB WALL (15)
NO SCALE



1. In each parking stall, a curb or bumper shall be provided and located to prevent encroachment of vehicles over the required width of walkways. Parking stalls shall be so located that persons with disabilities are not compelled to wheel or walk behind parked cars other than their own.
2. Where a van accessible parking space is provided, the loading and unloading access aisle shall be 8'-0" wide minimum, and shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
3. Accessible Parking Only Sign shall be Sign R99C (CA) or Sign R99 (CA) with Plaque R99B (CA). Sign shall be reflectorized.
4. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high and located so that it is visible to traffic enforcement officials. See Revised Standard Plan RSP A90B for details of the "NO PARKING" pavement marking.

ACCESSIBLE PARKING (12 -)
NO SCALE



NOTE: SIGNS SHALL BE REFLECTORIZED AND PER CA MUTCD R99, R99B, & R7-8b.

ACCESSIBLE SIGNAGE (13)
NO SCALE

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CONSTRUCTION DETAILS

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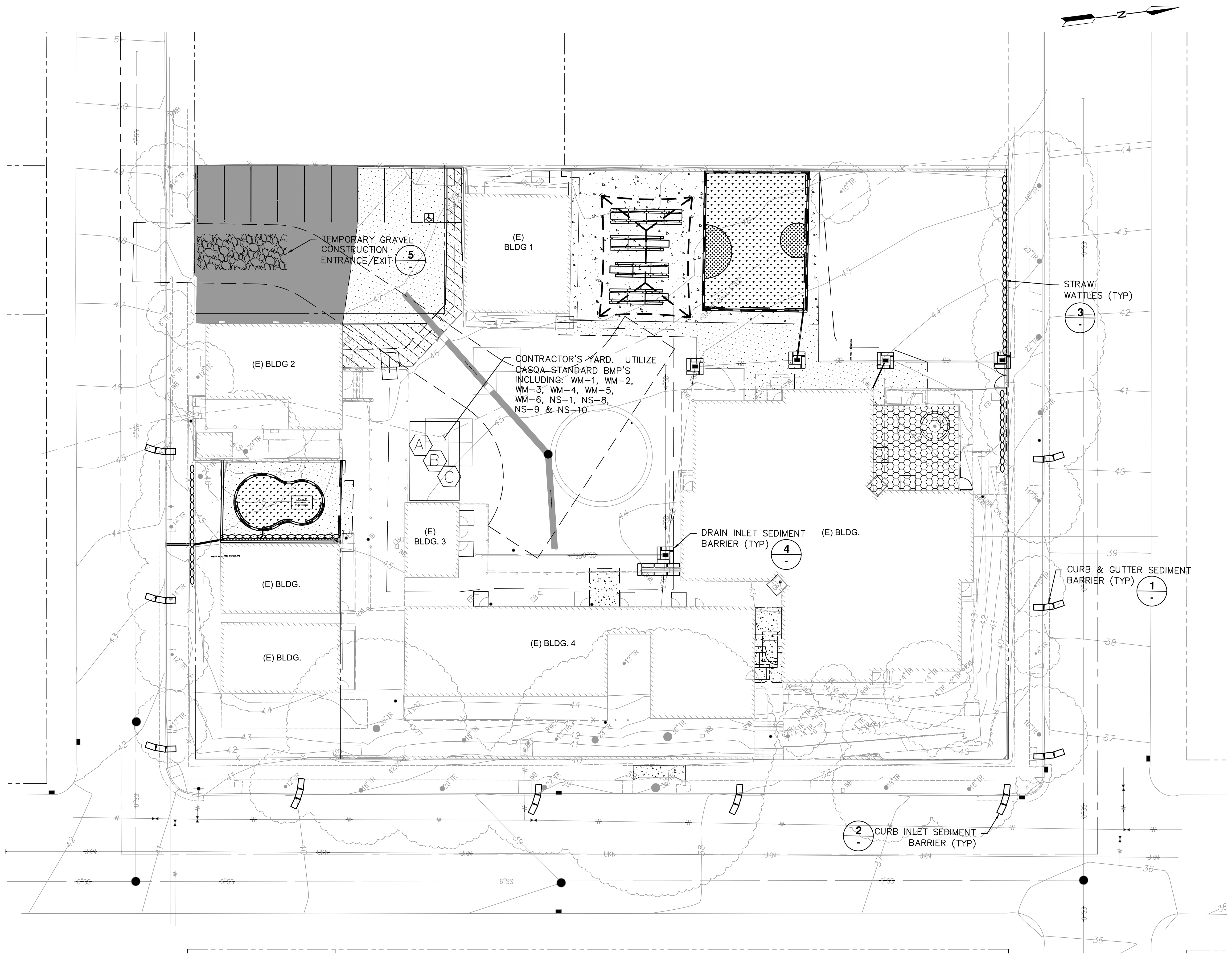
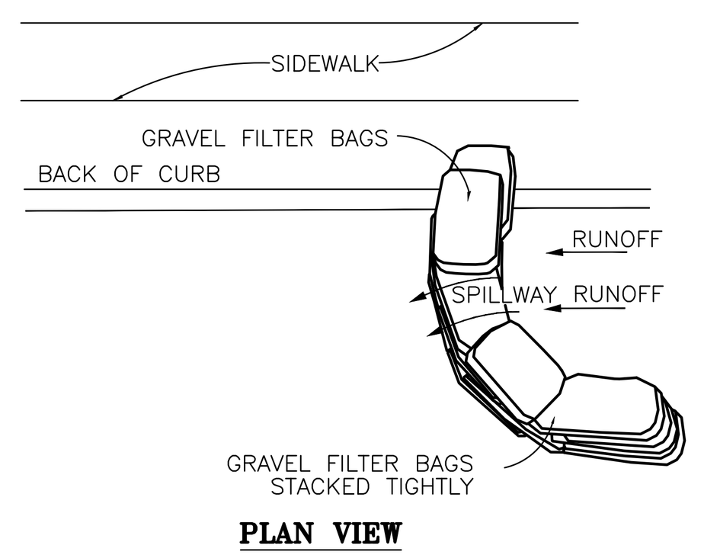


GENERAL NOTES FOR EROSION CONTROL & WATER POLLUTION PREVENTION

1. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
2. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
3. AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS-FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTER LINE OF A CROWNED STREET.
4. EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FORECAST OF RAIN PROBABILITY 50% OR GREATER.
5. HYDROSEED ALL FILL AND CUT SLOPES AS APPROVED BY CITY GUIDELINES AND/OR ORDINANCES.
6. SANDBAGS SHALL BE STOCKPILED ADJACENT TO EACH POINT TO USE AS SHOWN ON THE EROSION CONTROL PLAN, READY TO BE PLACED IN POSITION WHEN THE RAIN FORECAST IS 50% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR.
7. SANDBAGS REFERRED TO IN THE PRECEDING ITEM MUST BE FULL. APPROVED SANDBAG MATERIALS ARE SAND DECOMPOSED GRANITE, AND/OR GRAVEL OR OTHER MATERIALS APPROVED BY INSPECTOR.
8. THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE OPERABLE THROUGHOUT THE CONSTRUCTION SEASON.
9. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLANS TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE DISTRICT INSPECTOR OR ENGINEER.
10. ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF ENTERS THE STORM DRAINAGE SYSTEM.
11. AS STORM DRAIN IMPROVEMENTS ARE CONSTRUCTED, ALL STRUCTURES AND INLET PIPES SHALL BE PROTECTED FROM INFLOW OF SILT BY STRAW WATTLE BARRIERS PER DETAILS.
12. CONTRACTOR SHALL HAVE TOOLS, EQUIPMENT, AND MATERIALS TO PROVIDE EROSION CONTROL MEASURES MADE NECESSARY BY A CONSTRUCTION OPERATION, ON THE JOB SITE BEFORE BEGINNING THAT OPERATION.
13. ADJACENT PROPERTIES SHALL BE PROTECTED FROM STORM WATERS, MUD, SILT, ETC.
14. THE PROJECT WORK AREA SHALL BE GRADED TO AVOID PONDING OR UNCONTROLLED CHANNELING OF STORM WATER.
15. PERIMETER SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ADDITIONAL BMP'S ARE TO BE IMPLEMENTED THROUGHOUT THE DURATION OF CONSTRUCTION AS APPROPRIATE FOR EACH PHASE OF THE PROJECT.
16. AREAS EXPOSED TO EXCESSIVE WIND AND/OR VEHICLE TRAFFIC SHOULD BE INSPECTED DAILY FOR DUST CONTROL. SPRINKLE THE EXPOSED AREA WITH WATER OR APPLY NON-TOXIC STABILIZERS AT APPROPRIATE INTERVALS BASED ON NEED. DO NOT SPRINKLE EXCESSIVELY AND CAUSE NON-STORM WATER DISCHARGE FROM THE SITE.
17. INSPECT ALL SEDIMENT BARRIERS, INLET PROTECTION DEVICES AND OTHER STORM WATER QUALITY BMP'S BEFORE AND AFTER RAINFALL EVENTS AND WEEKLY THROUGHOUT THE DURATION OF THE PROJECT. DURING EXTENDED RAINFALL EVENTS, INSPECT INLET PROTECTION DEVICES AT LEAST ONCE EVERY 24 HOURS. PROPERLY REPAIR OR REPLACE ANY BMP'S THAT ARE NOT FUNCTIONING PROPERLY, DISPOSE OF ACCUMULATED SEDIMENT AND STABILIZE ALL DAMAGED AREAS PROMPTLY.
18. WASTE COLLECTION AREAS SHALL BE LOCATED AWAY FROM WATER COURSES AND STORM WATER CONVEYANCE SYSTEM.
19. DUMPSTERS SHALL BE SECURELY COVERED AT NIGHT AND DURING WET WEATHER. DUMPSTERS SHALL BE INSPECTED FREQUENTLY FOR LEAKS. ANY LEAKING MATERIAL FROM DUMPSTER SHALL BE COLLECTED AND PROPERLY DISPOSED OF. CONTRACTOR SHALL ARRANGE FOR ADEQUATE DEBRIS DISPOSAL SCHEDULES TO ENSURE DUMPSTERS DO NOT OVERFLOW.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND SWEEPING ROADWAYS AND PAVED AREAS WHERE WORK IS BEING CONDUCTED ANYTIME THERE IS VISIBLE EVIDENCE OF SOIL ON A PAVED AREA. SWEEPING IS NOT EFFECTIVE IF SEDIMENT IS WET OR CAKED. WET OR CAKED SEDIMENT SHALL BE SCRAPED.
21. CONTRACTOR SHALL ROUTINELY POLICE THE CONSTRUCTION SITE FOR LITTER AND DEBRIS.
22. ANY HAZARDOUS WASTE GENERATED FROM THE SITE SHALL BE PROPERLY LABELED AND SHALL BE DISPOSED OF AT AUTHORIZED TREATMENT, STORAGE AND DISPOSAL FACILITIES.
23. TEMPORARY HAZARDOUS WASTE MATERIAL STORAGE CONTAINERS SHALL BE LOCATED AWAY FROM ALL WATER COURSES AND STORM WATER CONVEYANCE SYSTEMS.
24. HAZARDOUS WASTE MATERIALS SHALL BE STORED IN AREAS NOT SUSCEPTIBLE TO RAIN AND CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT IN CASE OF SPILL OR LEAKS.
25. IN THE EVENT OF A HAZARDOUS SPILL OR LEAK, CONTRACTOR SHALL NOTIFY THE STATE OFFICE OF EMERGENCY SERVICES (800) 852-7550.
26. ALL SPILLS SHALL BE IMMEDIATELY CLEANED UP AND CONTAMINATED SOILS AND CLEAN UP MATERIALS SHALL BE DISPOSED OF PROPERLY. DRY SPILLS SHALL BE SWEPT NOT WASHED OR HOSED. WET SPILLS ON IMPERMEABLE SURFACES SHALL BE ABSORBED AND ABSORBENT MATERIALS SHALL BE PROPERLY DISPOSED OF OFF SITE. WET SPILL ON SOIL SHALL BE DUG UP AND ALL CONTAMINATED SOILS SHALL BE PROPERLY DISPOSED OF OFF SITE.
27. MAJOR MAINTENANCE/REPAIR AND WASHING OF CONSTRUCTION EQUIPMENT SHALL OCCUR OFF SITE.
28. CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED REGULARLY AND INSPECTED FREQUENTLY FOR DAMAGED HOSES, LEAKY GASKETS OR OTHER SERVICE PROBLEMS.
29. CONTRACTOR SHALL VERIFY WEEKLY THAT SUFFICIENT SPILL CONTROL AND CLEAN UP MATERIALS ARE LOCATED NEAR MATERIAL STORAGE, UNLOADING AND USE AREAS.
30. CONTRACTOR SHALL UPDATE ONSITE SPILL PREVENTION AND CONTROL PLANS AND STOCK APPROPRIATE CLEAN UP MATERIALS WHENEVER CHANGES OCCUR ON SITE.
31. CONTRACTOR IS RESPONSIBLE FOR TRAINING EMPLOYEES AND SUBCONTRACTORS ON CONSTRUCTION SITE MANAGEMENT AND BEST MANAGEMENT PRACTICES.

LEGEND

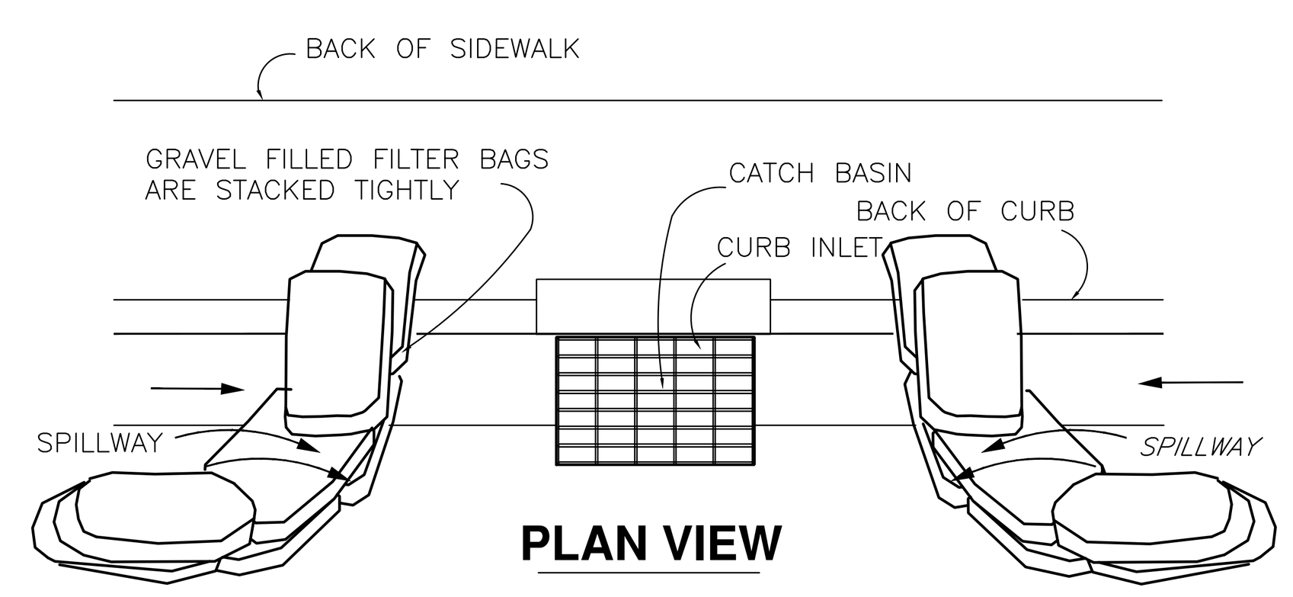
(straw wattle symbol)	STRAW WATTLE – NO PLASTIC NETTING ALLOWED
(sediment barrier symbol)	SEDIMENT BARRIER (GRAVEL GRAVEL BAGS)
(drain inlet symbol)	DRAIN INLET SEDIMENT BARRIER
A	MATERIAL STORAGE
B	CONCRETE WASHOUT AREA
C	VEHICLE & EQUIPMENT STORAGE, SERVICE & REFUEL AREA



TEMPORARY CURB AND GUTTER SEDIMENT BARRIER (GRAVEL BAGS) 1

NO SCALE

PER CASQA BMP SE-10

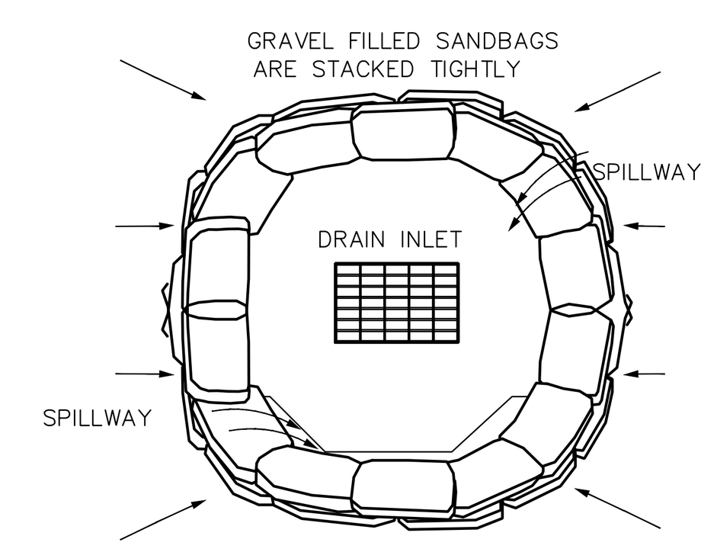


NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. FILTER BAGS, OF WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

TEMPORARY CURB INLET SEDIMENT BARRIER (FOR PAVED AREAS) 2

NO SCALE

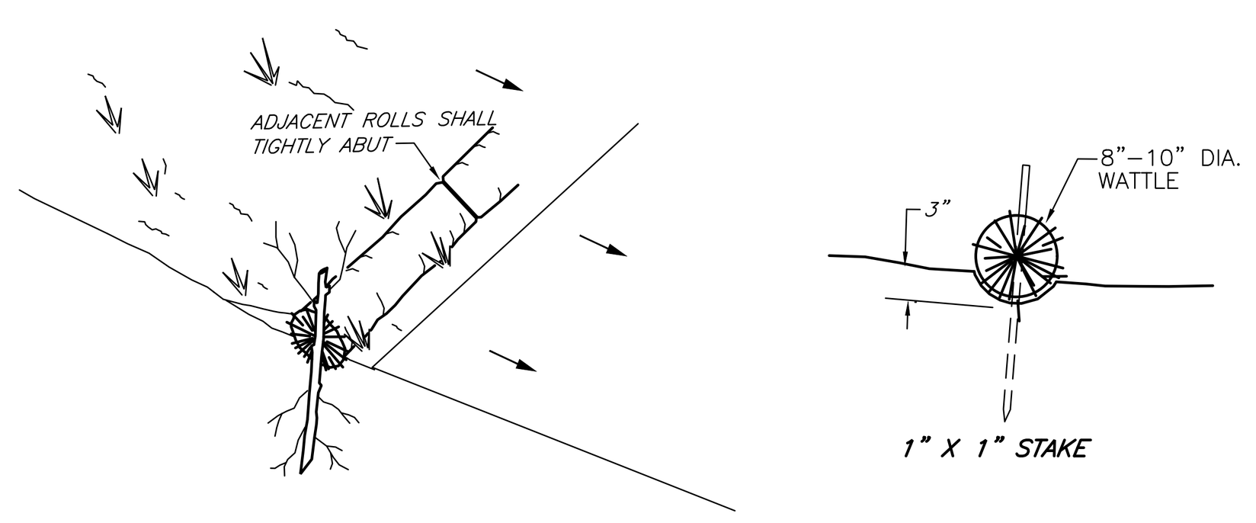
PER CASQA BMP SE-10



NOTES:
1. SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
2. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

TEMPORARY DRAINAGE INLET SEDIMENT BARRIER (GRAVEL BAGS) 4

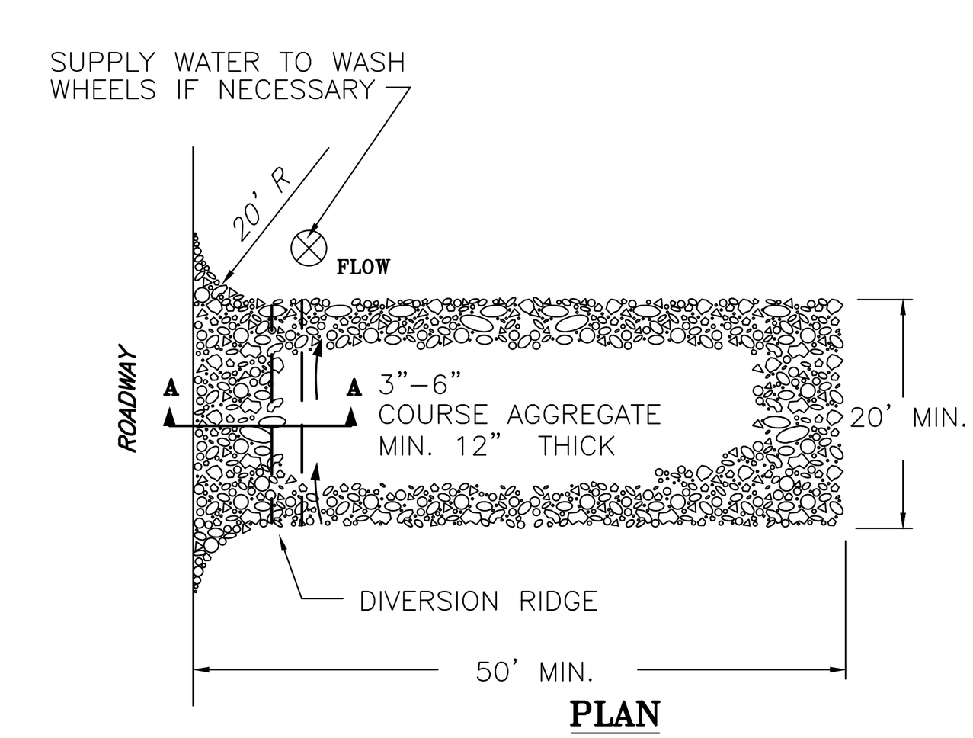
NO SCALE

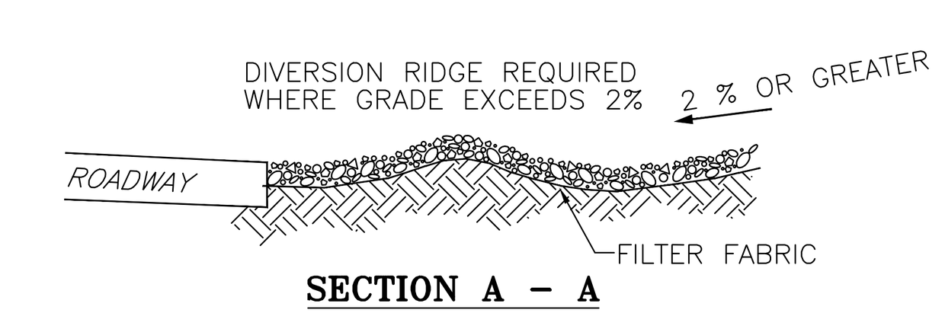


NOTE:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"–5" (75–125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER, AROUND OR OVER ROLL.

TEMPORARY STRAW WATTLES 3

NO SCALE





NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT 5

NO SCALE

PER CASQA BMP TC-1

1 inch = 20 ft.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
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DATE: 2/21/2024

DSA APP. NO: 01-121552

CA SA+ STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT TRENT S. SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

CHAUDHARY & ASSOCIATES, INC.
ENGINEERS SURVEYORS INSPECTORS
211 GATEWAY ROAD WEST, SUITE 204
NAPA, CALIFORNIA 94558
TEL: (707) 255-2729 FAX: (707) 255-5021
WWW.CHAUDHARY.COM

LICENSED PROFESSIONAL ENGINEER
C 94100
CIVIL
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

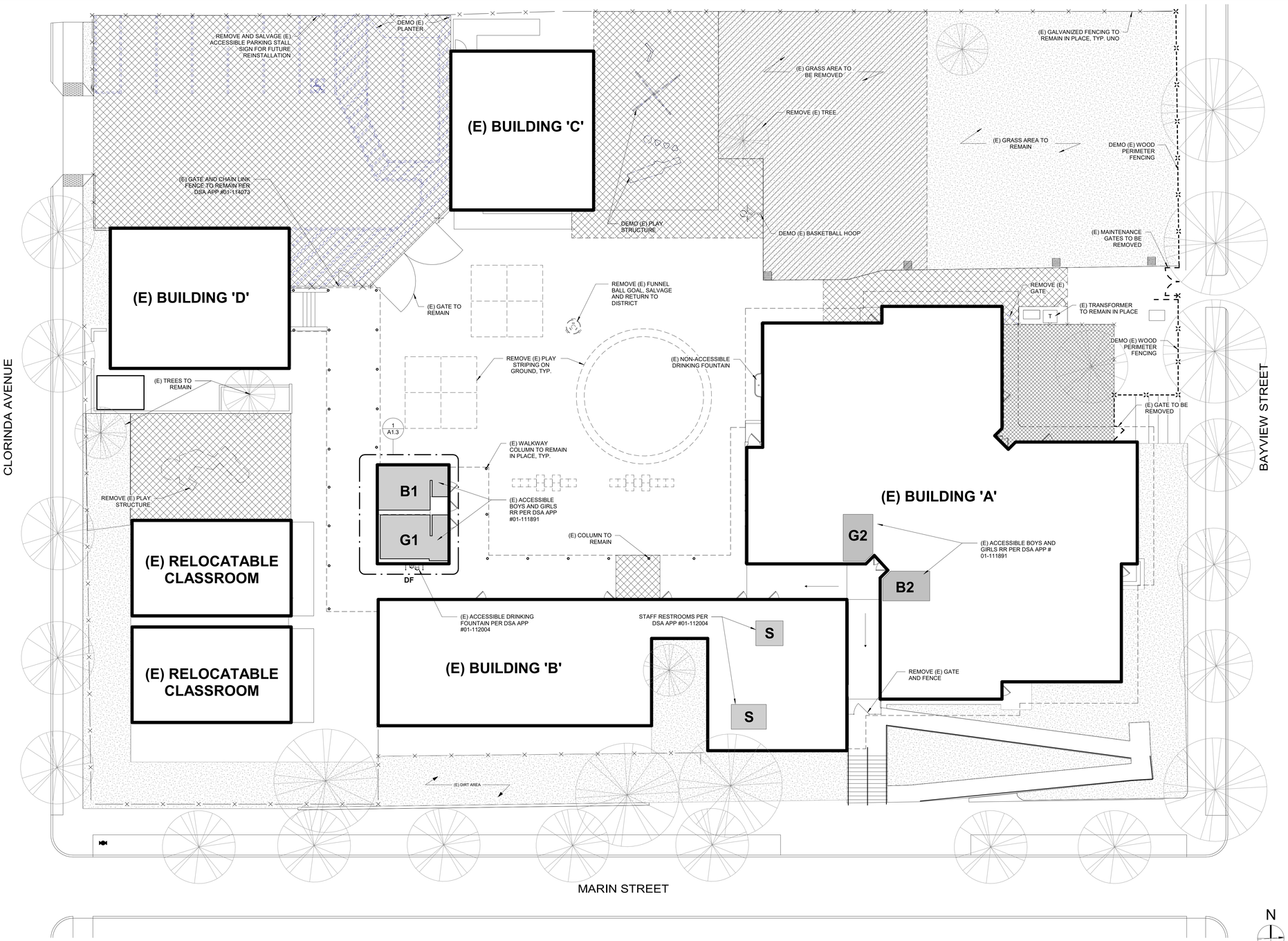
SAN RAFAEL CITY SCHOOL DISTRICT

DATE:	FEB. 9, 2024
PROJECT No.:	2023-014

DSA SUBMITTAL

EROSION & SEDIMENT CONTROL PLAN

C-5.0



DEMO SITE PLAN — 3/32" = 1'-0" — 1

- REMOVE (E) PAVING, REFER TO CIVIL DRAWINGS
- (E) GRASS TO BE REMOVED
- (E) UNIT PAVERS TO BE REMOVED, REFER TO LANDSCAPE DRAWINGS
- (E) ACCESSIBLE RESTROOMS
- (E) FENCING
- (E) FENCING TO BE REMOVED

1. ALL ITEMS NOT SPECIFICALLY SHOWN TO BE DEMOLISHED, REPLACED OR MODIFIED ARE TO REMAIN IN PLACE , UNDISTURBED IN WORKING CONDITION.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND RESTORATION OF IRRIGATION SYSTEMS WHERE OCCURS, INCLUDING LOCATING AND SECURELY CAPPING LINES SERVING SPRINKLER HEADS WITHIN FIVE FEET OF BUILDINGS OR PAVED AREAS. OPERATIONAL TESTING OF IRRIGATION SYSTEMS SHALL BE A CONDITION OF FINAL ACCEPTANCE OF WORK

3. CONTRACTOR WILL BE RESPONSIBLE FOR RESTORATION OF DISTURBED AREAS AND EQUIPMENT TO FULL FUNCTION, INCLUDING LEVELING AND RE-SEEDING OF DISTURBED TURF AREAS. UNDERGROUND UTILITIES DAMAGED BY CONSTRUCTION SHALL BE FULLY RESTORED.

4. CONTRACTOR TO RE-ESTABLISH ALL EXISTING UTILITY BOXES, MANHOLES, CLEANOUTS, ETC., IN AREAS OF WORK TO FINISH GRADE

5. NO DEMOLITION SHALL BEGIN UNTIL PLANS, INCLUDING THE DEMOLITION WORK, HAVE BEEN APPROVED BY DSA.

DEMO LEGEND & NOTES — 1/8" = 1'-0" — 2

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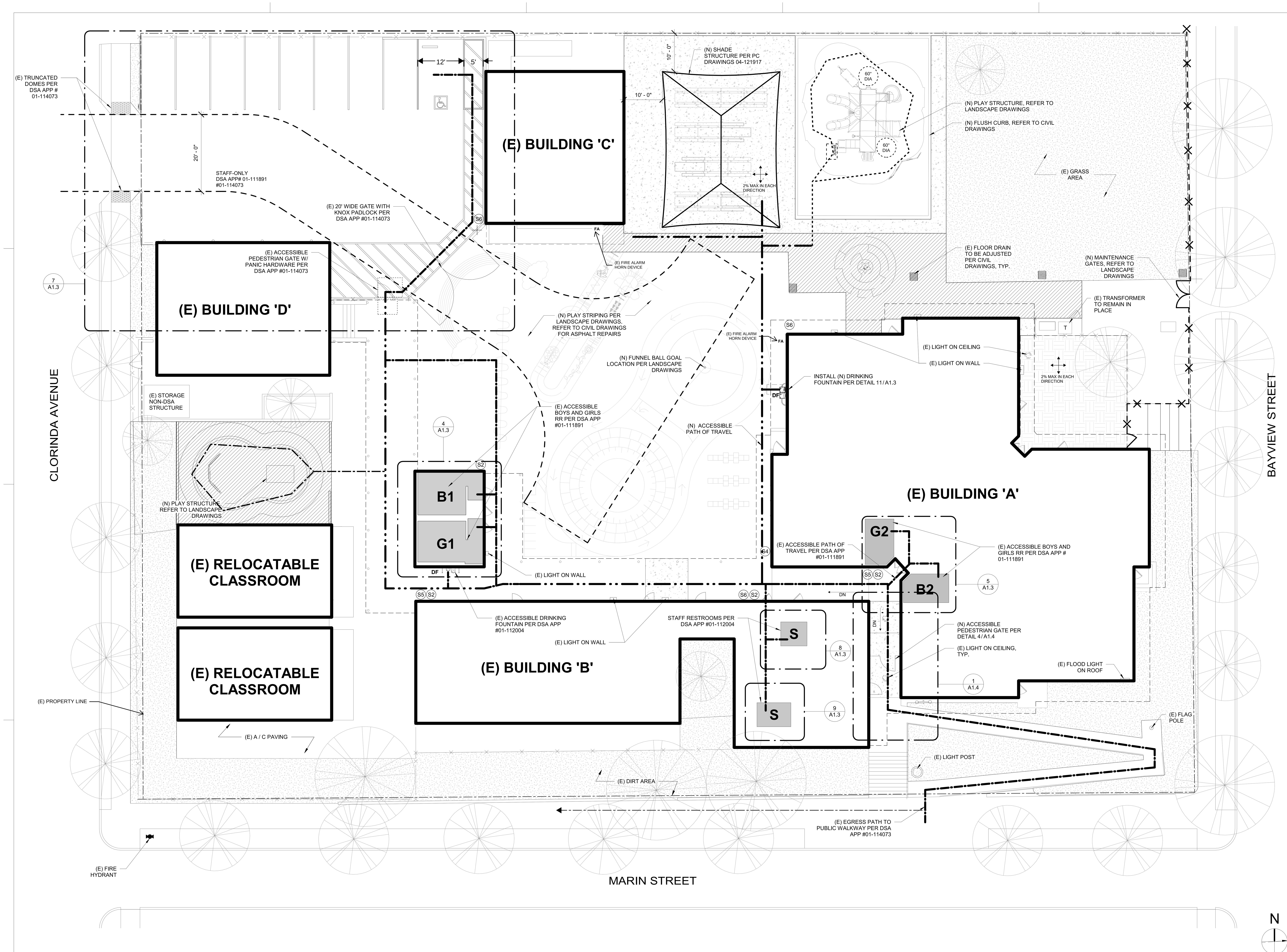
PROJECT No.: 2023-014

CONSTRUCTION DOCUMENTS

DEMO SITE PLAN

A1.1



SITE PLAN — 3/32" = 1'-0" — 1

DSA CAMPUS SUMMARY

BLDG. ID	BLDG. USE	OCCUPANCY	CONST. TYPE	PAST DSA APPLICATIONS
(E) BUILDING A	ADMINISTRATION	E	TYPE V-B	#5979, #01-112004, # 01-111891
(E) BUILDING B	CLASSROOMS	E	TYPE V-B	#31657, #01-112004, #01-111891
(E) BUILDING C	CLASSROOMS	E	TYPE V-B	#01-114073
(E) RELOCATABLE CLASSROOMS	CLASSROOMS	E	TYPE V-B	#01-113209
(E) BUILDING D	CLASSROOMS	E	TYPE V-B	#5979

LEGEND

- (N) AC PAVING, REFER TO CIVIL DRAWINGS
- (N) CONCRETE PAVING, REFER TO CIVIL DRAWINGS
- UNIT PAVERS PER LANDSCAPE DRAWINGS
- (E) ACCESSIBLE RESTROOMS
- (N) FIRE LANE
- (E) FENCING TO REMAIN IN PLACE
- (N) VINYL CLAD CHAIN LINK FENCING PER LANDSCAPE DRAWINGS
- (E) PATH OF TRAVEL PER DSA APP#01-114073
- (N) PATH OF TRAVEL
- (E) FIRE HYDRANT PER DSA APP#01-114073
- S# DIRECTIONAL SIGNAGE TO ACCESSIBLE RESTROOMS. SEE DETAIL 2/ A1.2

PARKING ANALYSIS

TOTAL PARKING STALLS: 9 SPACES 1 ACCESS TOTAL

REQ'D NO. OF ACCESSIBLE PARKING STALLS PER CBC TABLE 11B-208.2 = 1

NO. OF ACCESSIBLE PARKING PROVIDED = 1 TOTAL

ACCESS COMPLIANCE STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATES:

THE PATH OF TRAVEL (POT) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF POT THAT WERE DETERMINED TO BE NONCOMPLIANT HAVE:

1. BEEN IDENTIFIED ON THESE PLANS
2. THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THE PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATION 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 CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE ROUTE COMPONENTS INCLUDE BUT ARE NOT LIMIT TO:

- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE;
- WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4";
- WITH A FIRM, STABLE AND SLIP RESISTANT WALKING SURFACE;
- WITH A RUNNING SLOPE OF 1:20 OR LESS;
- WITH RUNNING SLOPE OF CODE COMPLIANT RAMPS, NOT TO EXCEED 8.33% (1:12), (RAMPS COMPLY WITH 11B-405);
- WITH REQUIRED LANDINGS AND LEVEL AREAS WITH SLOPE 1:48 (1/4"/FT.) OR LESS;
- WITH A CROSS SLOPE OF 1:48 (1/4"/FT.) OR LESS;
- WITH OPENINGS IN DRAINS AND GRATING NOT TO EXCEED ½" IN PREDOMINANT DIRECTION OF TRAVEL;
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE; AND
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE

ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL

CODE ANALYSIS

SHADE STRUCTURE AREA:
(N) 30'X40'x1'1200 SF
SUBTOTAL 1200 SF

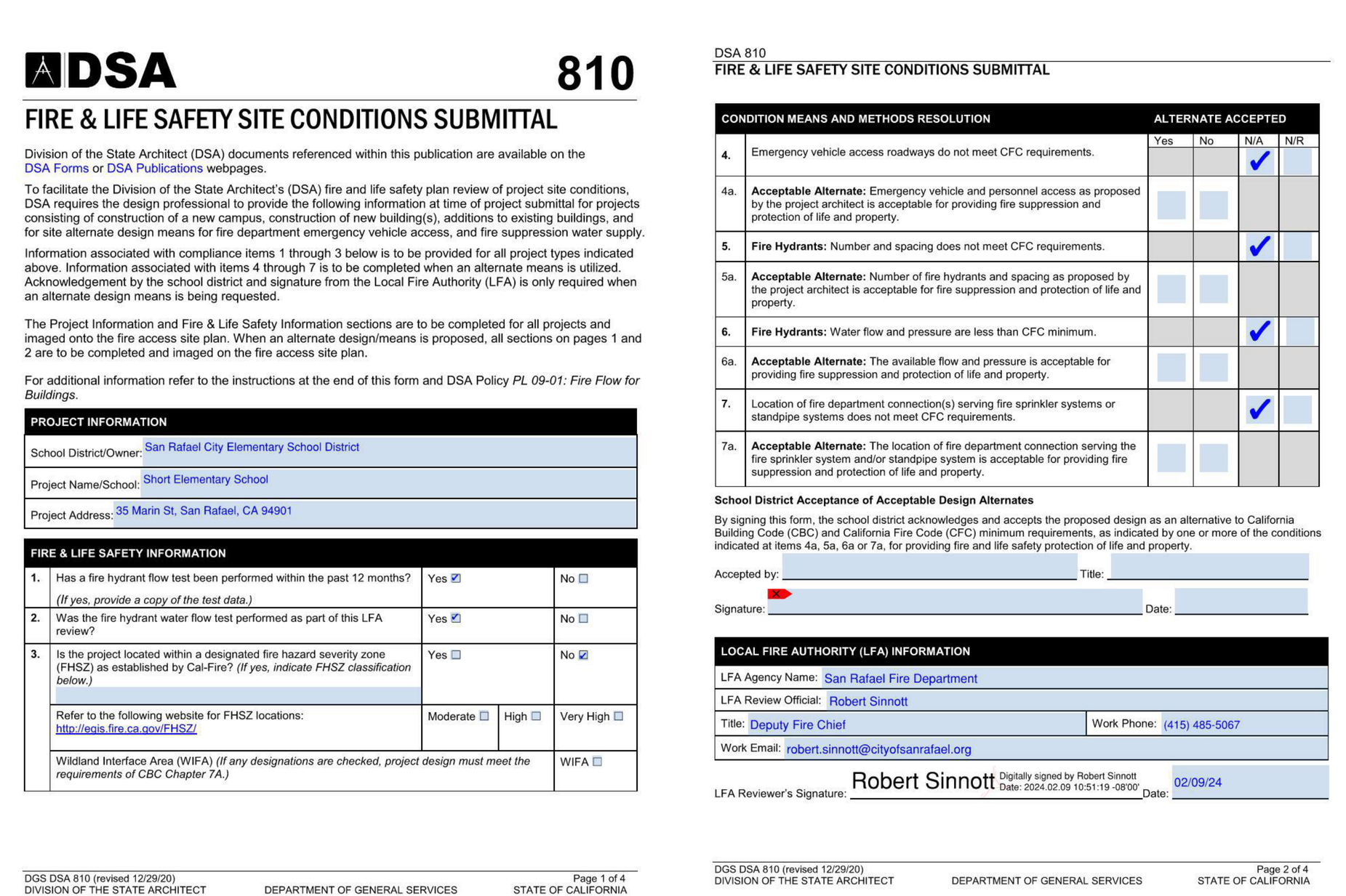
CONSTRUCTION TYPE: II-B
GROUP: A-2

1200 SF < 9,500 SF THEREFORE O.K.
BASIC ALLOWABLE AREA BASED ON CBC 2022, TABLE 506.2: 9,500 SF - SINGLE STORY

OCCUPANT LOAD FACTORS - PER CBC TABLE 1004.1.1 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

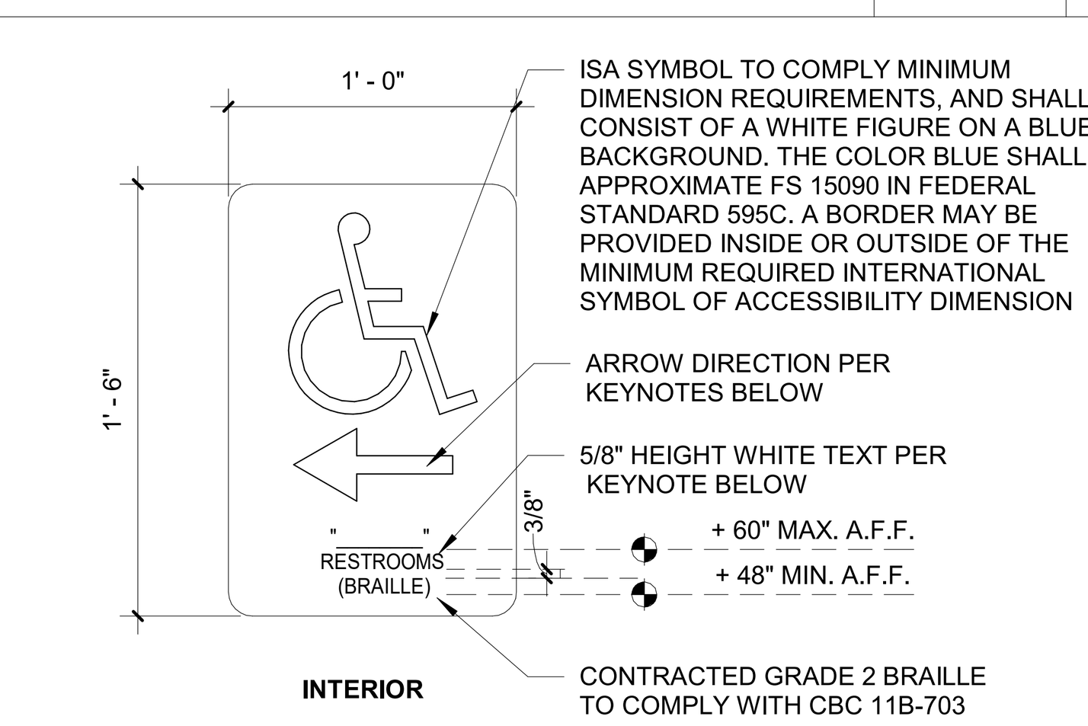
SHADE STRUCTURE ASSEMBLY - AREA PER OCCUPANT 15 SF:

(N) 30'X40' FABRIC SHADE STRUCTURE, TOTAL= 1200 SF / 15 SF = 80 OCC.



NOTE:

1. RAISED CHARACTERS SHALL COMPLY WITH **CBC SECTION 11B-703.2**: CHARACTERS SHALL BE RAISED 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND, SHALL BE SANS SERIF UPPERCASE LETTERS, AND SHALL BE DUPLICATED IN BRAILLE.
2. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTER SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. CBC SECTION 11B-703.5.1
3. ALL INTERIOR SIGNS SHALL BE OF ENGRAVED LAMINATED ACRYLIC.



S1 = CHILDREN →
S2 = CHILDREN ←
S3 = CHILDREN ↑
S4 = UNISEX →
S5 = UNISEX ←
S6 = UNISEX ↑

ACCESSIBLE RESTROOM DIRECTIONAL SIGNAGE — 1 1/2" = 1'-0" — 2

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SAN RAFAEL CITY SCHOOLS

PROJECT No.: 2023-014

CONSTRUCTION DOCUMENTS

CAMPUS SITE PLAN

A1.2

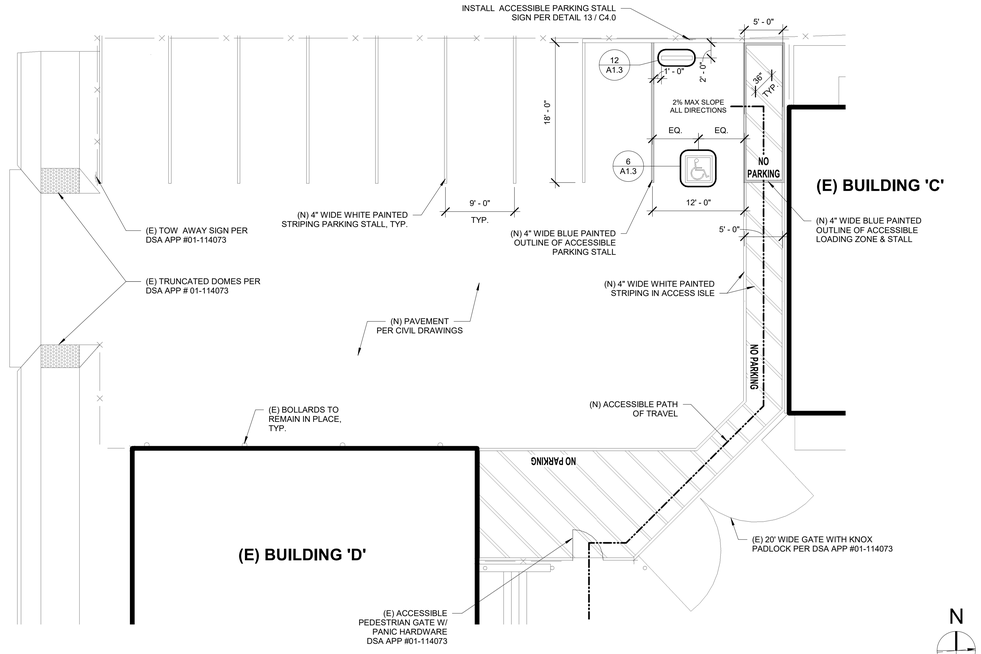
NOT USED

NOT USED

NOT USED

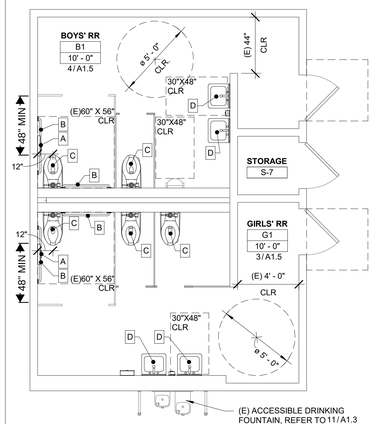
NOT USED

NOT USED



SITE PLAN - ENLARGED PARKING PLAN

1/8" = 1'-0" | 7



RESTROOM ACCESSORIES KEYNOTE LEGEND

ADJUST THE FOLLOWING ACCESSORIES TO COMPLY WITH DETAIL 10 / A1.3

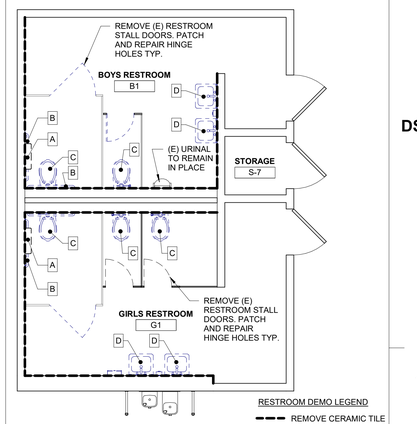
A. (N) TOILET PAPER DISPENSER
B. (N) 36" / 42" GRAB BAR PER DETAIL, REFER TO DETAIL 13 / A1.3
C. (N) WC AT 12" FROM ADJACENT WALL TO CENTERLINE
D. (N) SINK AT, REFER TO DETAIL 3 / A1.3
E. (N) PAPER TOWEL DISPENSER
F. (N) SOAP DISPENSER
G. (N) MIRROR MAX WEIGHT 20LBS.
H. (N) TOILET SEAT COVER DISPENSER

NOTE: ACCESSIBLE RESTROOMS PER DSA APP#01-111891

N

B1 AND G1 RR ENLARGED PLAN

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



RESTROOM DEMO LEGEND

REMOVE CERAMIC TILE ALONG WALLS WHERE PLUMBING FIXTURES AND ACCESSORIES ARE GETTING REMOVED.

RESTROOM ACCESSORIES KEYNOTE LEGEND

REMOVE THE FOLLOWING ACCESSORIES:

A. REMOVE (E) TOILET PAPER DISPENSER AND RETURN TO DISTRICT
B. REMOVE (E) GRAB BARS
C. REMOVE (E) WC
D. REMOVE (E) SINK

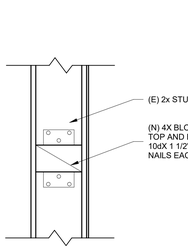
GENERAL DEMO NOTE: REMOVE (E) ACCESSORIES (SOAP DISPENSER, TOILET PAPER DISPENSER, TOWEL DISPENSER, TOILET SEAT PAPER DISPENSER, ETC.

NOTE: ACCESSIBLE RESTROOMS PER DSA APP#01-111891

N

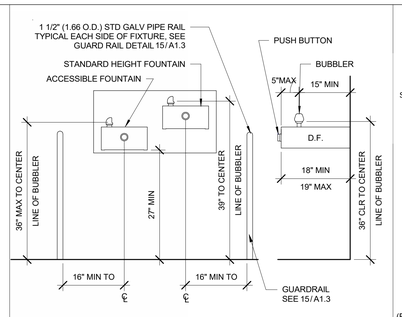
B1 AND G1 RR ENLARGED DEMO

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



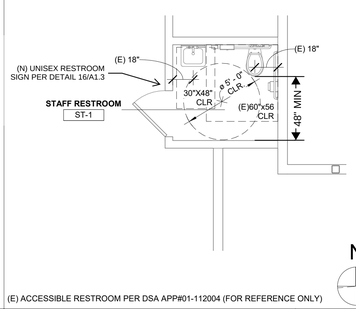
TYPICAL BLOCKING DETAIL

1 1/2" = 1'-0" | 14



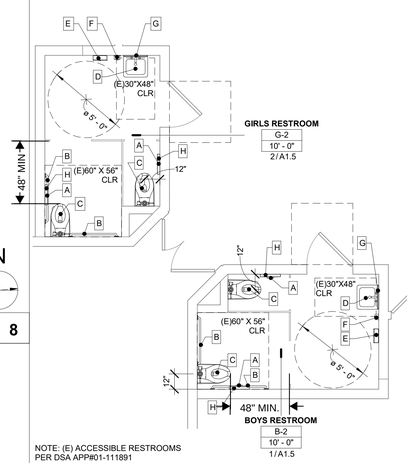
(N) DRINKING FOUNTAIN

3/4" = 1'-0" | 11



STAFF RR ST-1 ENLARGED

1/4" = 1'-0" | 8



NOTE: (E) ACCESSIBLE RESTROOMS PER DSA APP#01-111891

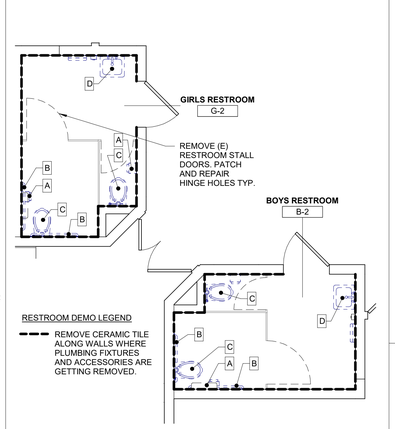
RESTROOM ACCESSORIES KEYNOTE LEGEND

ADJUST THE FOLLOWING ACCESSORIES TO COMPLY WITH DETAILS 10 / A1.3

A. (N) TOILET PAPER DISPENSER
B. (N) GRAB BAR, REFER TO DETAIL 13 / A1.3
C. (N) WC AT 12" FROM ADJACENT WALL TO CENTERLINE
D. (N) SINK AT 30" A.F.F. REFER TO DETAIL 3 / A1.3
E. (N) PAPER TOWEL DISPENSER
F. (N) SOAP DISPENSER
G. (N) MIRROR
H. (N) TOILET SEAT COVER DISPENSER

B2 AND G2 RR ENLARGED PLAN

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



RESTROOM DEMO LEGEND

REMOVE CERAMIC TILE ALONG WALLS WHERE PLUMBING FIXTURES AND ACCESSORIES ARE GETTING REMOVED.

NOTE: (E) ACCESSIBLE RESTROOMS PER DSA APP#01-111891

RESTROOM ACCESSORIES KEYNOTE LEGEND

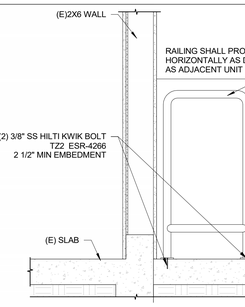
REMOVE THE FOLLOWING ACCESSORIES:

A. REMOVE (E) TOILET PAPER DISPENSER AND RETURN TO DISTRICT
B. REMOVE (E) GRAB BARS
C. REMOVE (E) WC
D. REMOVE (E) SINK

GENERAL DEMO NOTE: REMOVE (E) ACCESSORIES (SOAP DISPENSER, TOILET PAPER DISPENSER, TOWEL DISPENSER, TOILET SEAT PAPER DISPENSER, ETC.

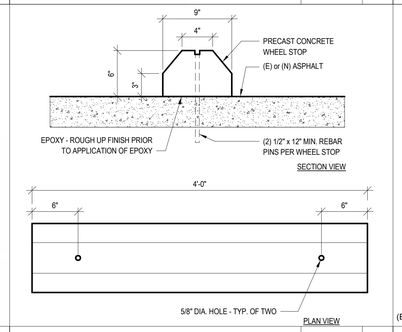
B2 AND G2 RR ENLARGED DEMO

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



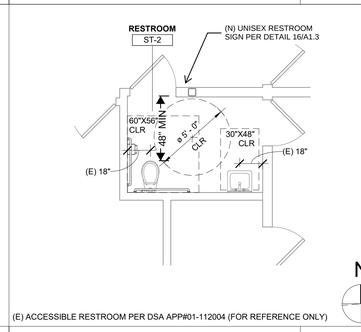
GUARDRAIL DETAIL

1" = 1'-0" | 15



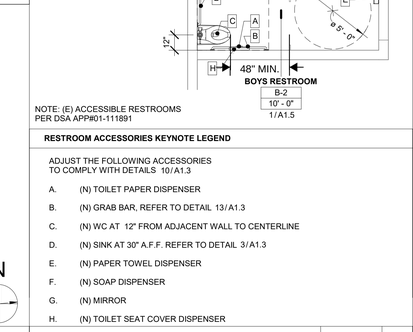
WHEEL STOP

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



STAFF RR - ST-2

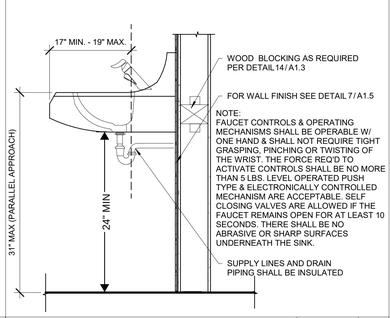
1/4" = 1'-0" | 9



NOTE:
-ISA SYMBOL SHALL COMPLY WITH 11B-502.6 AND 11B-703.7.2.1

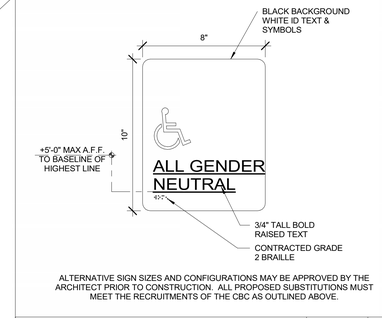
ACCESSIBILITY SYMBOL (ISA)

1" = 1'-0" | 6



LAVATORY MOUNTING

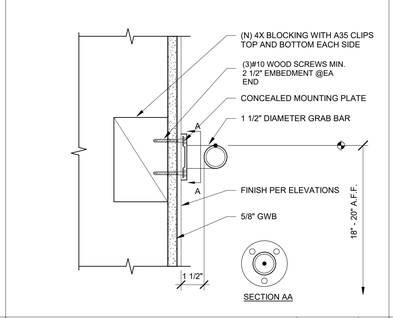
1" = 1'-0" | 3



ALTERNATIVE SIGN SIZES AND CONFIGURATIONS MAY BE APPROVED BY THE ARCHITECT PRIOR TO CONSTRUCTION. ALL PROPOSED SUBSTITUTIONS MUST MEET THE RECRUITMENTS OF THE CBC AS OUTLINED ABOVE.

UNISEX RESTROOM SIGN

3" = 1'-0" | 16



GRAB BAR ANCHORAGE

3" = 1'-0" | 13

ACCESSIBLE MOUNTING HEIGHTS	
FIXTURE	**AGE 4**
TOILET OFFSET	12"
TOILET SEAT HEIGHT	11" - 12"
TOP OF GRAB BAR GRIPPING SURFACE	18" - 20"
T.P. DISPENSER OUTLET (A.F.F., TO CENTERLINE OF OUTLET OR ROLL)	14"
FURTHEST T.P. DISPENSER IN FRONT OF W.C.	7" - 9" TO CENTERLINE
LAV / SINK RIM HEIGHT	31" MAX.
LAV / SINK KNEE CLEARANCE	PARALLEL APPROACH PERMITTED
TOE CLEARANCE AT TOILET PARTITION	12" MIN.
~~SHELF HEIGHT~~	~~40" - 48"~~
MIRROR HEIGHT (BOTTOM EDGE OF REFLECTING SURFACE)	40" MAX. (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. NOR COUNTERTOP)
~~COAT HOOK~~	~~48" MAX.~~
PAPER TOWEL DISPENSER, TOILET SEAT COVER DISPENSER HIGHEST OPER. PART	32" MAX.

NOTE: ALL HEIGHT DIMENSIONS ARE A.F.F. ALL HORIZONTAL DIMENSIONS ARE TO FACE-OF-FINISH.

ACCESSIBLE MOUNTING HEIGHTS

1 1/2" = 1'-0" | 10

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CA+SA STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT TRENT S SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOLS

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOLS

PROJECT No.: 2023-014

CONSTRUCTION DOCUMENTS

ENLARGED PLANS AND DETAILS

A1.3

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

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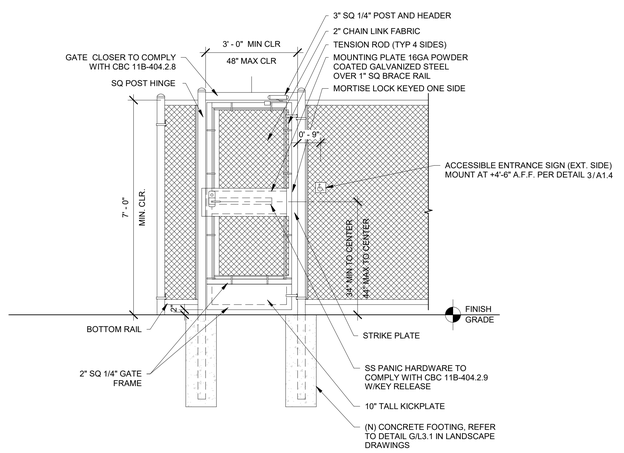
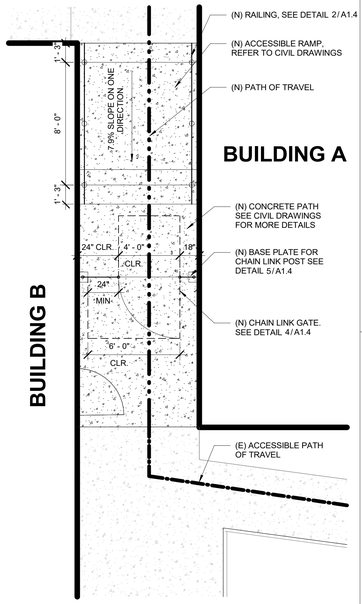


NOTES:
-THE ACTIVATING FORCE TO DISENGAGE LATCH FOR OPERABLE PARTS SHALL BE 5LB MAX PER CBC 11B-309.4
-THE FORCE TO PUSH A HINGED DOOR OR GATE SHALL BE 5LB MAX PER CBC 11B-404.2.9
-HANDLES, PULLS, LATCHES , LOCKS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST
-DOOR CLOSERS SHALL BE ADJUSTED SO THAT AN OPEN POSITION OF 90 DEGREES, THE MAXIMUM TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM
-PANIC HARDWARE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
-PANIC HARDWARE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.
-EXIT DEVICE BASIS OF DESIGN IS VON DUPRIN 98/9952

THIS DETAIL IS NOT PART OF DSA STRUCTURAL APPROVAL

ACCESSIBLE CHAIN LINK GATE | 1/2" = 1'-0" | 4



ENLARGE RAMP FLOOR PLAN | 1/4" = 1'-0" | 1

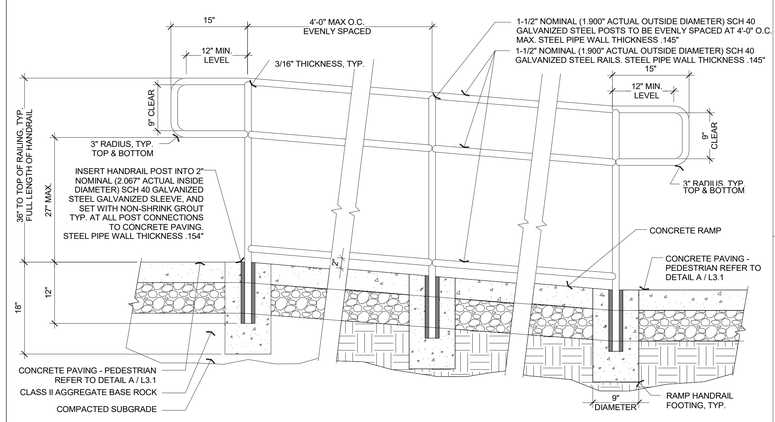
PLATE - PLAN VIEW

THIS DETAIL IS NOT PART OF DSA STRUCTURAL APPROVAL

PLATE - SECTION VIEW

CL FENCE BASE PLATE | 1 1/2" = 1'-0" | 5

HANDRAIL IN RAMP



NOTES:
1. INTERMEDIATE POSTS TO BE EVENLY SPACED AT 4' O.C. MAXIMUM.
2. REFER TO SPECIFICATION 05 52 00 METAL RAILINGS.
3. HANDRAIL PIPE IS TO COMPLY WITH ASTM A53.

RAMP HAND RAIL ELEVATION | 1" = 1'-0" | 2

ACCESSIBLE ENTRANCE SIGN | 6" = 1'-0" | 3

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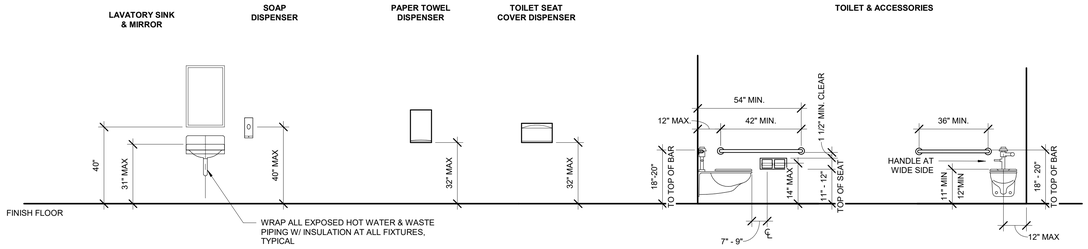
CONSTRUCTION DOCUMENTS

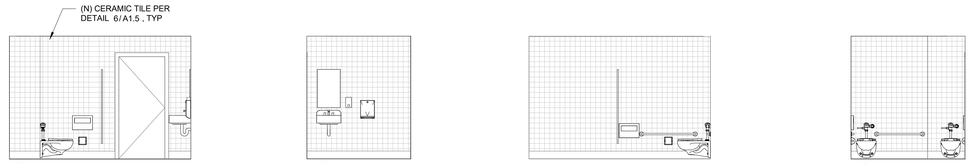
ENLARGED PLAN AND DETAILS

A1.4



1127A.2.2 - GRAB BARS
EXCEPTIONS: WHEN THE ENFORCING AGENCY REQUIRES FLUSH CON-TROLS FOR FLUSH VALVES TO BE LOCATED IN A POSI-TION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PER-MITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA.

TRANSITIONAL KINDER TYPICAL MOUNTING HEIGHTS
3/8" = 1'-0" **8**

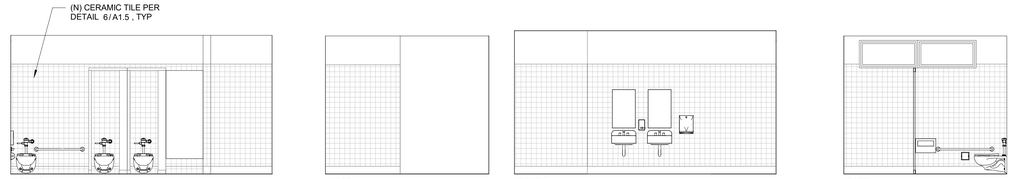


REFER TO DETAIL 8 / A1.5 FOR TYPICAL MOUNTING HEIGHTS

B2- BOYS RESTROOM INTERIOR ELEVATIONS
1/4" = 1'-0" **1**

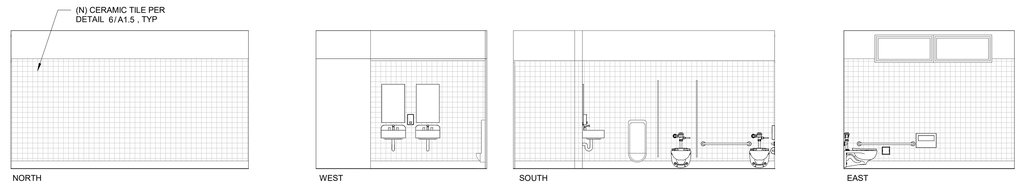
REFER TO DETAIL 8 / A1.5 FOR TYPICAL MOUNTING HEIGHTS

G2 - GIRLS RESTROOM INTERIOR ELEVATIONS
1/4" = 1'-0" **2**



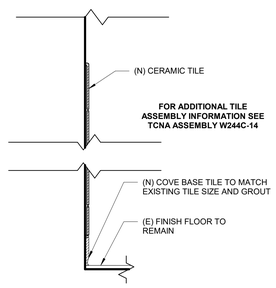
REFER TO DETAIL 8 / A1.5 FOR TYPICAL MOUNTING HEIGHTS

G-1 - GIRLS RESTROOM INTERIOR ELEVATIONS
1/4" = 1'-0" **3**

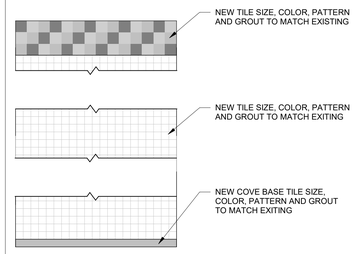


REFER TO DETAIL 8 / A1.5 FOR TYPICAL MOUNTING HEIGHTS

B-1 - BOYS RESTROOM INTERIOR ELEVATIONS
1/4" = 1'-0" **4**



COVE BASE AT WALL TILE DETAIL
1 1/2" = 1'-0" **7**



TILE PATTERN LEGEND
3/4" = 1'-0" **6**

ACCESSIBLE MOUNTING HEIGHTS

FIXTURE	AGE 4
TOILET OFFSET	12"
TOILET SEAT HEIGHT	11" - 12"
TOP OF GRAB BAR GRIPPING SURFACE	18" - 20"
T.P. DISPENSER OUTLET (A.F.F., TO CENTERLINE OF OUTLET OR ROLL)	14"
FURTHEST T.P. DISPENSER IN FRONT OF W.C.	7" - 9" TO CENTERLINE
LAV / SINK RIM HEIGHT	31" MAX.
LAV / SINK KNEE CLEARANCE	PARALLEL APPROACH PERMITTED
TOE CLEARANCE AT TOILET PARTITION	12" MIN.
~~SHELF HEIGHT~~	~~40" - 48"~~
MIRROR HEIGHT (BOTTOM EDGE OF REFLECTING SURFACE)	40" MAX. (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. NOR COUNTERTOP)
~~COAT HOOK~~	~~40" MAX.~~
PAPER TOWEL DISPENSER, TOILET SEAT COVER DISPENSER HIGHEST OPERABLE PART	32" MAX.

NOTE: ALL HEIGHT DIMENSIONS ARE A.F.F. ALL HORIZONTAL DIMENSIONS ARE FACE-OF-FINISH.

ACCESSIBLE MOUNTING HEIGHTS
1 1/2" = 1'-0" **5**

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CA SA STUDIO

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TRENT S SOMMERS
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EXP 01-31-25
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SAN RAFAEL CITY SCHOOLS

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SHORT ES ECE DEVELOPMENT CENTER

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SAN RAFAEL CITY SCHOOLS

PROJECT No.: 2023-014

CONSTRUCTION DOCUMENTS

INTERIOR ELEVATIONS

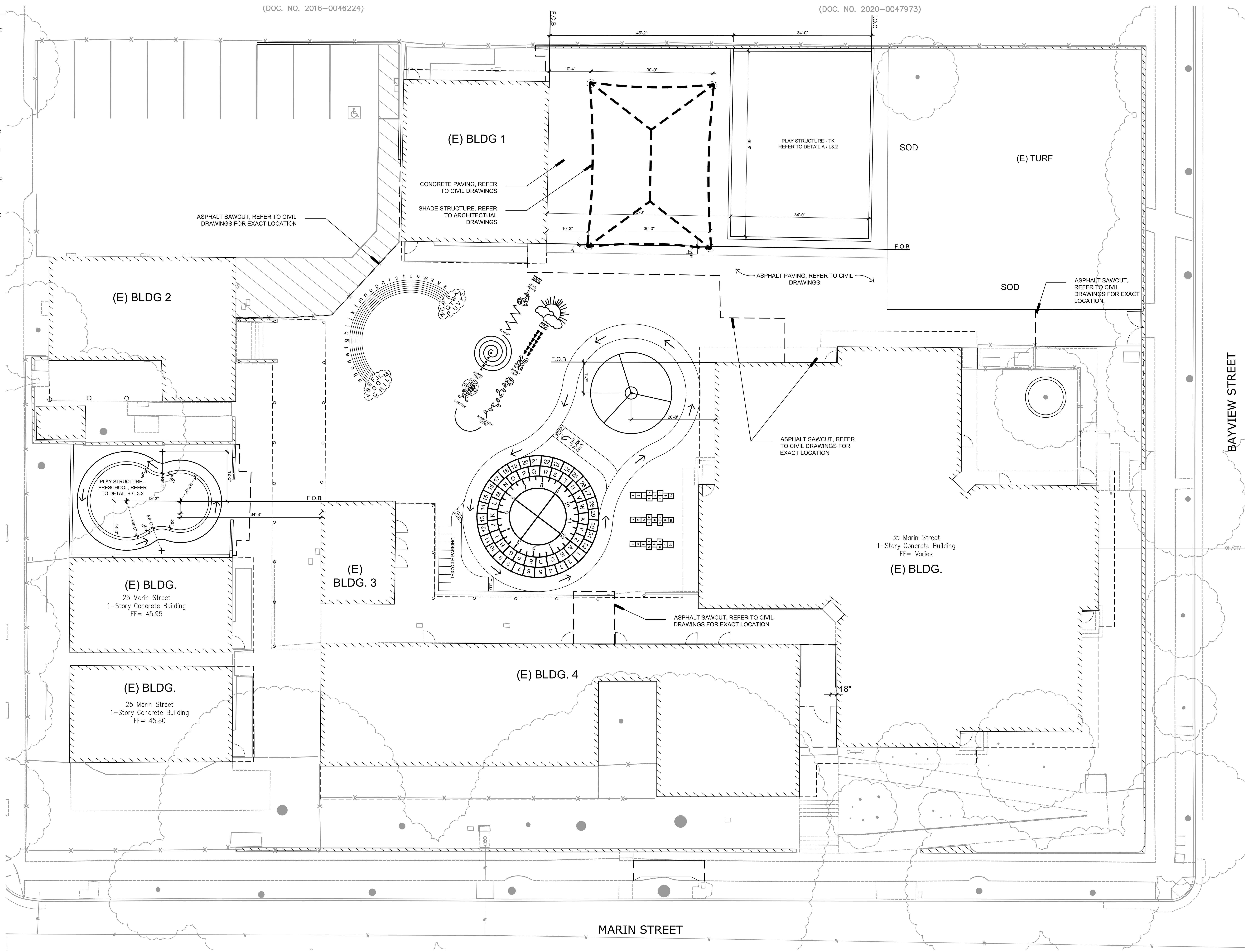
A1.5

LAYOUT NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. DRAWINGS SHALL NOT BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CONTRACTOR FINDS A DISCREPANCY WITH WRITTEN DIMENSIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE OF AND LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH THE WORK. CONTACT THE DISTRICT REPRESENTATIVE AND UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO INITIATING CONSTRUCTION FOR ASSISTANCE.
4. COORDINATE ALL CONSTRUCTION ELEMENTS PRIOR TO INSTALLATION. VERIFY , CURBS, FENCES, ETC. AND CRITICAL DIMENSIONS, REFERENCE AND COORDINATE POINT LOCATIONS, AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. NOTIFY THE DISTRICT REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCIES ARISE.
5. CONTRACTOR SHALL LAYOUT ALL PROJECT ELEMENTS IN FIELD AS SHOWN ON THESE PLANS AND HAVE THEM APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. ALL MINOR ADJUSTMENTS MADE TO ACCOMMODATE EXISTING SITE CONDITIONS SHALL MAINTAIN THE OVERALL DESIGN LAYOUT. ALL ADJUSTMENTS SHALL BE APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO CONSTRUCTION.
7. ALL NEW PAVED SURFACES SHALL CONFORM TO EXISTING PAVED SURFACES, FLUSH AND SMOOTH. CONTRACTOR SHALL CONSTRUCT SMOOTH TRANSITIONS OF PAVING AND WALKS WHILE MAINTAINING POSITIVE DRAINAGE.
8. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
9. CONDITIONS NOT SPECIFICALLY NOTED OR DETAILED ON THESE PLANS SHALL BE CALLED TO THE ATTENTION OF THE DISTRICT REPRESENTATIVE FOR REVIEW PRIOR TO IMPLEMENTATION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT HIS OWN EXPENSE, ANY STRUCTURES, FENCES, WALLS, PLANT MATERIAL OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE.
11. ALL ANGLES FOR LAYOUT TO BE 90 DEGREES UNLESS OTHERWISE NOTED.
12. CONTRACTOR TO COORDINATE CONCRETE APRON LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.

LAYOUT LEGEND

SYMBOL	DESCRIPTION OF SYMBOL
BOC	BACK OF CURB
BOW	BACK OF WALL
CL	CENTERLINE
CC	CENTERLINE OF COLUMN
COP	CENTER OF POST
EOD	EDGE OF DOOR
ER	END OF RADIUS
EQ	EQUAL
(E)	EXISTING
FOB	FACE OF BUILDING
FOC	FACE OF CURB
FOW	FACE OF WALL
IOC	INSIDE OF CURB
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
OC	ON CENTER SPACING
R	RADIUS
TYP	TYPICAL



NORTH

SCALE: 1" = 10'-0"

0' 5' 10' 20'

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REGISTERED ARCHITECT
TRENT S. SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT
Sarah L. Lopez No. 6891
12/31/2024
02/09/2024
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE 02.09.2024

PROJECT No.: 2023-014 ANLA - #2352

DSA OTC SUBMITTAL

LAYOUT PLAN

L1

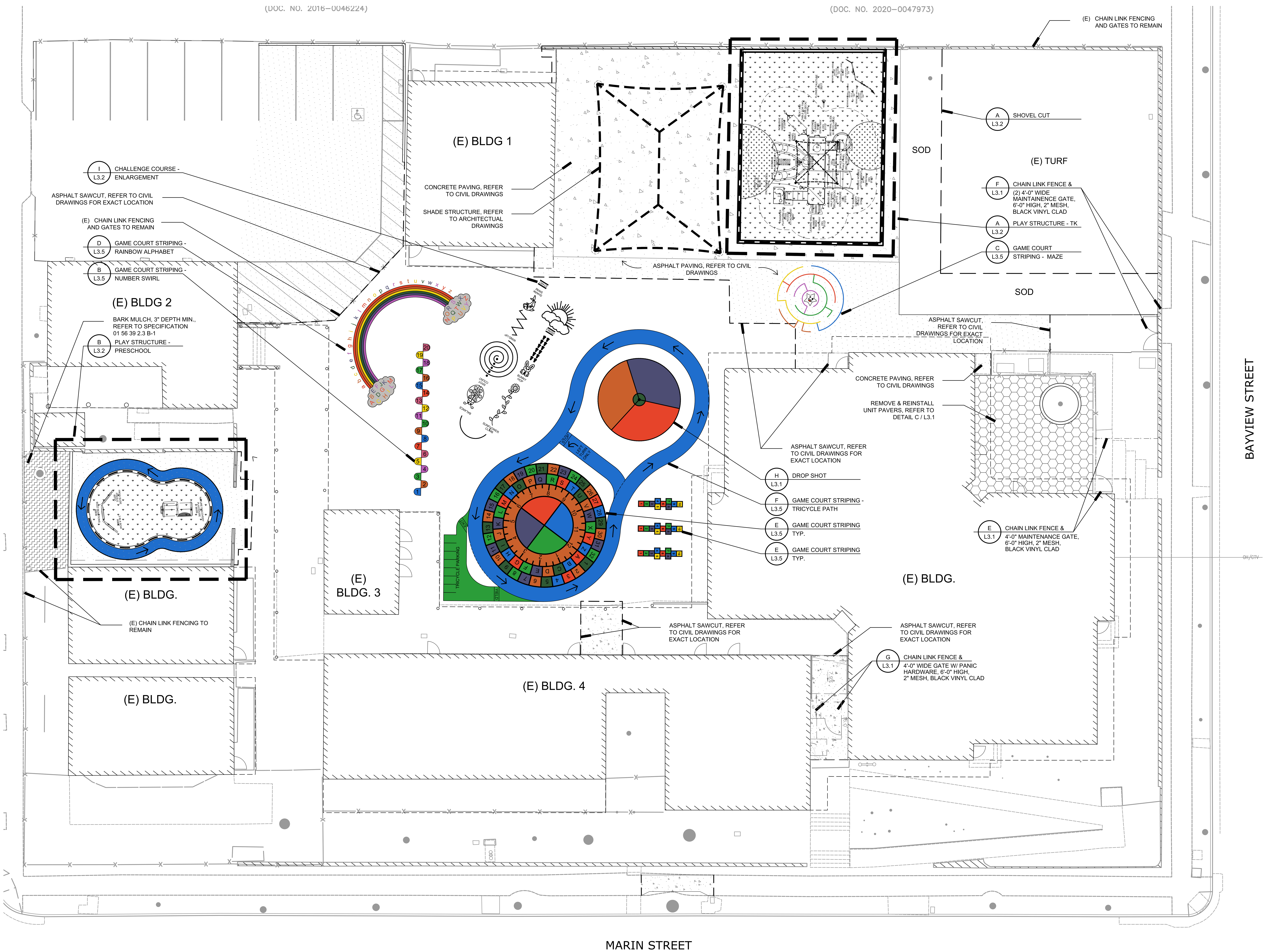
MATERIAL & DETAIL REFERENCE NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT DISTRICT REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
3. SCORE AND EXPANSION JOINTS SHALL BE LOCATED AS INDICATED ON THIS PLAN. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS WHEN NECESSARY TO ALIGN SCORE AND EXPANSION JOINTS WITH RELATIVE ELEMENTS AS SHOWN ON THE PLAN.
4. DETAIL CALLOUTS ON PLAN ARE PROVIDED FOR CONVENIENCE AND GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE QUANTITY OF PRODUCTS, ELEMENTS AND MATERIALS AS SYMBOLIZED ON PLANS, ASSOCIATED DETAILS AND SPECIFICATIONS.
5. FOR EACH CONCRETE FINISH SPECIFIED, CONTRACTOR SHALL POUR A 2'x2' SAMPLE FOR APPROVAL BY DISTRICT REPRESENTATIVE PRIOR TO INSTALLING CONCRETE PAVING.
6. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. IF WORK WITHIN THIS SCOPE REQUIRES REMOVAL, RENOVATION, OR DEMOLITION OF EXISTING TO REMAIN ELEMENTS, BOTH SURFACE AND KNOWN SUBSURFACE CONDITIONS, CONTRACTOR SHALL INCLUDE IN THE BID SUFFICIENT LABOR AND MATERIALS TO RESTORE EXISTING TO REMAIN IMPROVEMENTS IN-KIND AND AS ACCEPTABLE TO DISTRICT REPRESENTATIVE.
7. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS . IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL
8. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
9. CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES.
10. REFER TO CONSTRUCTION DETAILS ON SHEETS L3.1 - L3.5
11. REFER TO THE FOLLOWING SPECIFICATION SECTIONS:

01 56 39	TEMPORARY TREE AND PLANT PROTECTION
11 68 16	PLAY STRUCTURES
32 13 13.1	CONCRETE WORK (LANDSCAPE)
32 14 00	UNIT PAVERS
32 17 23.13	PAINTED PAVEMENT MARKINGS
32 18 16	SYNTHETIC RESILIENT SURFACING
32 18 16.16	PROTECTIVE RUBBER SURFACING UNDER SYNTHETIC TURF
32 13 13	CHAIN LINK FENCING AND GATES

MATERIAL & DETAIL REFERENCE LEGEND

SYMBOL	DETAIL DESCRIPTION	DETAIL REFERENCE
	CONCRETE CURB W/ RAIL PANEL CENTERED IN CURB	A & B /L3.1
	RE-INSTALLED UNIT PAVERS	C / L3.1
	CHAIN LINK FENCE 6'-0" HIGH, 2" MESH, BLACK VINYL CLAD	E, F, G / L3.1
	RESILIENT SURFACING PERIMETER CURB	A /L3.3
	RESILIENT SAFETY SURFACING (SYNTHETIC TURF)	A /L3.3
	RESILIENT SAFETY SURFACING (POUR IN PLACE)	A /L3.3
GROUNDCOVER	BARK MULCH ONLY, 3" DEPTH, MIN. REFER TO SPECIFICATION 01 56 39 ITEM 2.3 B-1	



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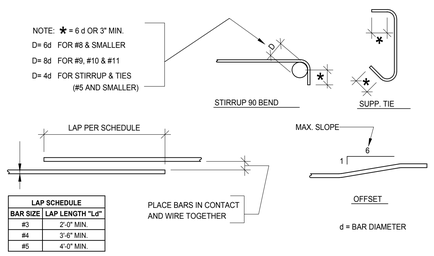
DSA OTC SUBMITTAL

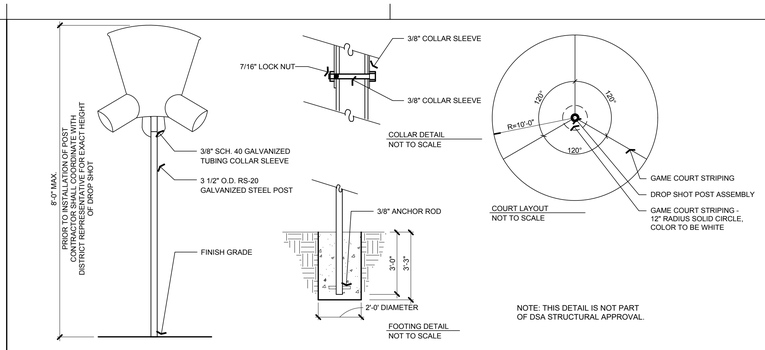
MATERIAL & DETAIL REFERENCE PLAN

L2



LAP SCHEDULE	
BAR SIZE	LAP LENGTH "Ld"
#3	2'-0" MIN.
#4	3'-6" MIN.
#5	4'-0" MIN.

L TYP. CONCRETE REINFORCEMENT BENDING & SPLICING — SCALE: NTS



NOTE: THIS DETAIL IS NOT PART OF DSA STRUCTURAL APPROVAL.

NOTES:
1. DROP SHOT AVAILABLE THROUGH ROSS RECREATION, LANDSCAPE LANDSCAPE STRUCTURE MODEL #100042A
2. POST AND POLY COLOR TO BE SELECTED BY ARCHITECT.
3. DROP SHOT STRIPING TO BE 2" WIDE WHITE SPORT COURT GAME LINE PAINT. REFER TO LAYOUT PLAN SHEET L1.
4. FOR CONCRETE FOOTING REFER TO SPECIFICATION SECTION 32 13 13.1 CONCRETE WORK (LANDSCAPE)

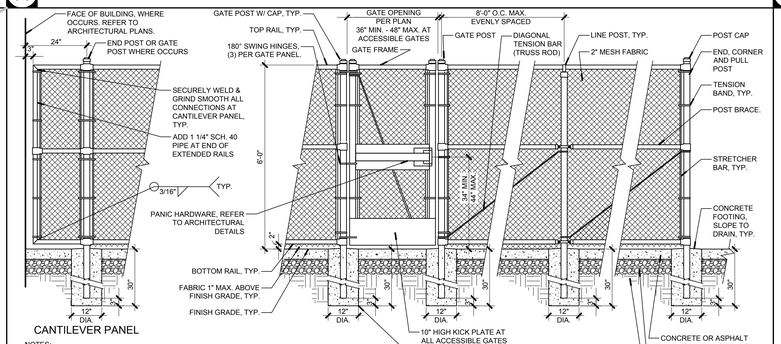
H DROP SHOT — SCALE: NTS

NOT USED

D

NOT USED

K



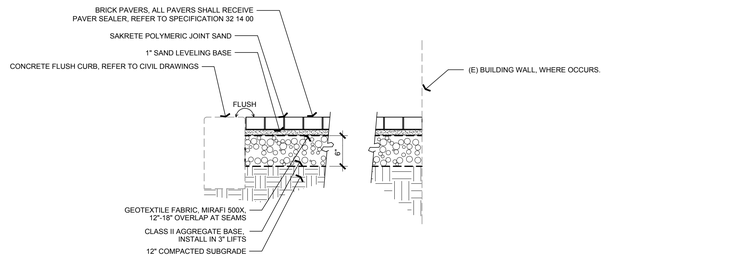
CANTILEVER PANEL

NOTES:
1. REFER TO SPECIFICATION SECTION 32 31 13 FOR CHAIN LINK FENCING.
2. ALL CHAIN LINK FENCE MATERIAL SHALL BE VINYL CLAD. COLOR TO BE BLACK.
3. WHERE GATES OCCUR WITHIN THE PATH OF TRAVEL, GATES SHALL COMPLY WITH EXIT DOOR REQUIREMENTS (SECTION 1010.2).
4. REFER TO DETAIL 1, SHEET A1.04 FOR PANIC HARDWARE.
5. WHERE FENCE TERMINATES AT A (N) OR (E) BLDG, CONTRACTOR SHALL INSTALL CANTILEVER FENCE PANEL AS SHOWN IN THIS DETAIL.
6. CONCRETE FOOTINGS TO BE 3000 PSI, TYP. REFER TO SPECIFICATION 32 31 13 SECTION 2.6 ITEM A-1 FOR CONCRETE MIX CRITERIA.
7. DIAGONAL TENSION BAR (TRUSS ROD) TO BE INSTALLED AT ALL END, CORNER, AND PULL POSTS.
8. GATE SHALL BE OPERABLE WITH 5 LBS MAXIMUM FORCE, TYP.

NOTE: THIS DETAIL IS NOT PART OF DSA STRUCTURAL APPROVAL.

CHAIN LINK FENCING IS EXEMPT FROM DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22)

G CHAIN LINK FENCE, 6'-0" HIGH, 2" MESH, BLACK VINYL CLAD SINGLE ACCESSIBLE GATE W/ PANIC HARDWARE — SCALE: NTS

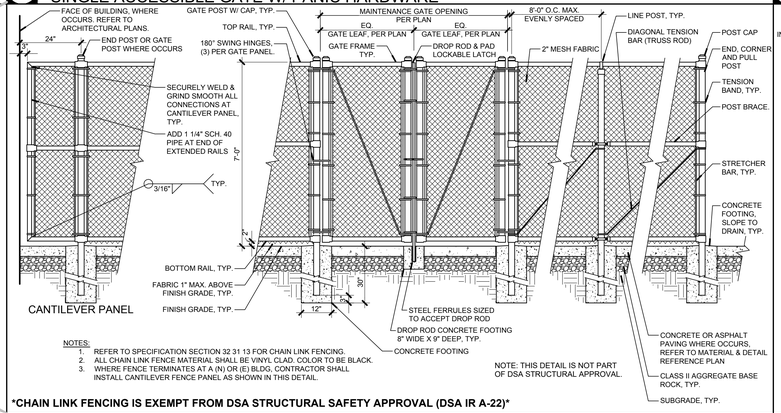


NOTES:
1. (E) BRICK PAVERS SHALL BE REMOVED, STOCKPILED, AND REINSTALLED AS SHOWN PER THE MATERIAL & DETAIL REFERENCE PLAN ON SHEET L2. REFER TO CIVIL DRAWINGS FOR DEMOLITION NOTES.
2. CONTRACTOR SHALL DOCUMENT (E) PAVER PATTERN AND RE-INSTALL SALVAGED BRICK PAVERS IN THE SAME PAVING PATTERN AND PATTERN ORIENTATION.
3. RE-INSTALLED PAVERS SHALL BE FLUSH WITH ADJACENT CONCRETE CURBS.
4. LAYOUT PAVERS PRIOR TO INSTALLATION AND SPACE SO THAT NO PAVERS REQUIRE SAWCUTTING RESULTING IN PIECES LESS THAN 2" IN SIZE IN ANY DIRECTION.
5. INSTALL PAVERS WITH TIGHT JOINTS. FILL VOIDS WITH SAKRETE POLYMERIC SAND AND COMPACT UNTIL ALL JOINTS ARE TIGHT.
6. PAVER SURFACE SHALL BE A SMOOTH AND CONTINUOUS SURFACE WITH NO GAPS COMPLIANT WITH ADA.
7. REFER TO SPECIFICATION SECTION 32 14 00 - BRICK PAVERS

C UNIT PAVERS — SCALE: NTS

NOT USED

J



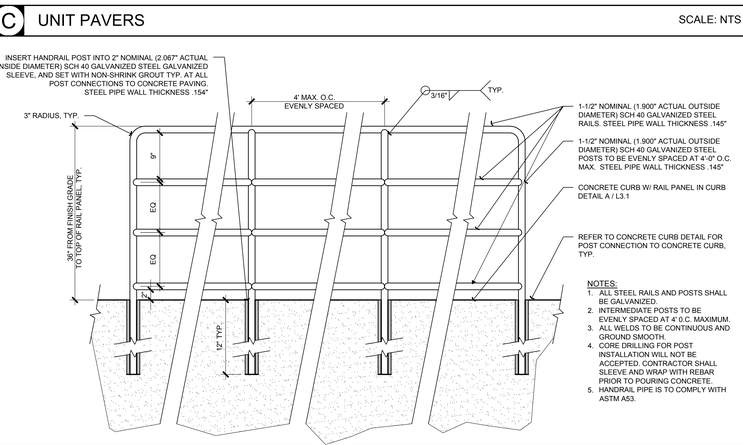
CANTILEVER PANEL

NOTES:
1. REFER TO SPECIFICATION SECTION 32 31 13 FOR CHAIN LINK FENCING.
2. ALL CHAIN LINK FENCE MATERIAL SHALL BE VINYL CLAD. COLOR TO BE BLACK.
3. WHERE FENCE TERMINATES AT A (N) OR (E) BLDG, CONTRACTOR SHALL INSTALL CANTILEVER FENCE PANEL AS SHOWN IN THIS DETAIL.

NOTE: THIS DETAIL IS NOT PART OF DSA STRUCTURAL APPROVAL.

CHAIN LINK FENCING IS EXEMPT FROM DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22)

F CHAIN LINK FENCE, 6'-0" HIGH, 2" MESH, BLACK VINYL CLAD DOUBLE MAINTENANCE GATE — SCALE: NTS

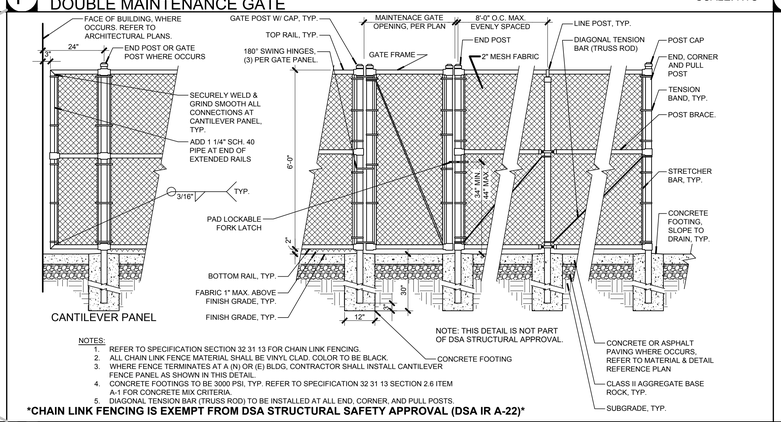


NOTES:
1. ALL STEEL RAILS AND POSTS SHALL BE GALVANIZED.
2. INTERMEDIATE POSTS TO BE EVENLY SPACED AT 4' O.C. MAXIMUM.
3. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH.
4. CORE DRILLING FOR POST INSTALLATION WILL NOT BE ACCEPTED. CONTRACTOR SHALL SLEEVE AND WRAP WITH REBAR PRIOR TO POURING CONCRETE.
5. HANDRAIL PIPE IS TO COMPLY WITH ASTM A53.

B RAIL PANEL — SCALE: NTS

NOT USED

I



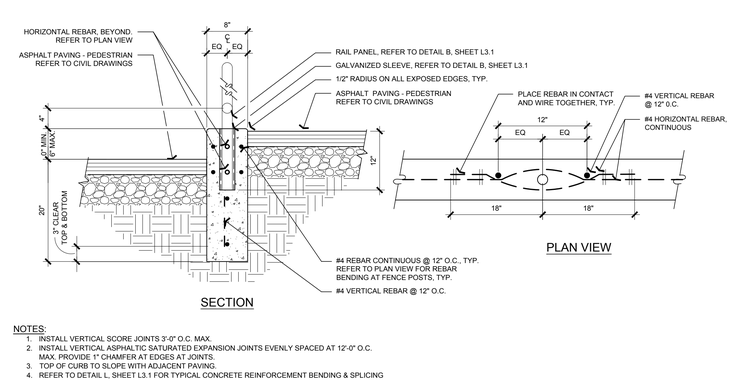
CANTILEVER PANEL

NOTES:
1. REFER TO SPECIFICATION SECTION 32 31 13 FOR CHAIN LINK FENCING.
2. ALL CHAIN LINK FENCE MATERIAL SHALL BE VINYL CLAD. COLOR TO BE BLACK.
3. WHERE FENCE TERMINATES AT A (N) OR (E) BLDG, CONTRACTOR SHALL INSTALL CANTILEVER FENCE PANEL AS SHOWN IN THIS DETAIL.
4. CONCRETE FOOTINGS TO BE 3000 PSI, TYP. REFER TO SPECIFICATION 32 31 13 SECTION 2.6 ITEM A-1 FOR CONCRETE MIX CRITERIA.
5. DIAGONAL TENSION BAR (TRUSS ROD) TO BE INSTALLED AT ALL END, CORNER, AND PULL POSTS.

NOTE: THIS DETAIL IS NOT PART OF DSA STRUCTURAL APPROVAL.

CHAIN LINK FENCING IS EXEMPT FROM DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22)

E CHAIN LINK FENCE, 6'-0" HIGH, 2" MESH, BLACK VINYL CLAD SINGLE MAINTENANCE GATE — SCALE: NTS



SECTION

NOTES:
1. INSTALL VERTICAL SCORE JOINTS 3'-0" O.C. MAX.
2. INSTALL VERTICAL ASPHALTIC SATURATED EXPANSION JOINTS EVENLY SPACED AT 12'-0" O.C. MAX. PROVIDE 1" CHAMFER AT EDGES AT JOINTS.
3. TOP OF CURB TO SLOPE WITH ADJACENT PAVING.
4. REFER TO DETAIL L, SHEET L3.1 FOR TYPICAL CONCRETE REINFORCEMENT BENDING & SPLICING

A CONCRETE CURB W/ RAIL PANEL CENTERED IN CURB — SCALE: NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

DSA APP. NO: 01-121552

CA SA STUDIO

1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT TRENT S SOMMERS LISC NO. C - 33589 EXP 01-31-25 STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT KATHRYN R.L. LOPEZ No. 6961 12/31/2024 Renewal Date 02/09/2024 Date STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE 02.09.2024

PROJECT No.: 2023-014 ANLA - #2352

DSA OTC SUBMITTAL

CONSTRUCTION DETAILS

L3.1

NOT USED

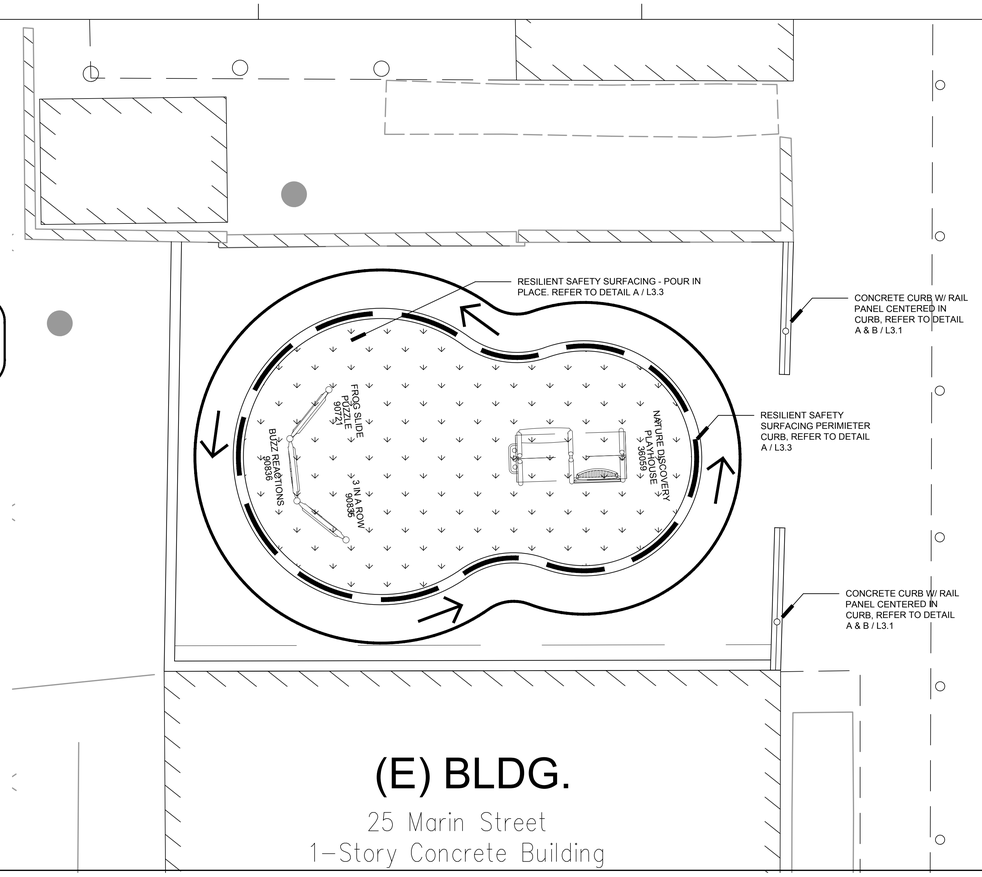
NOT USED

PLAY BOX NOTES:

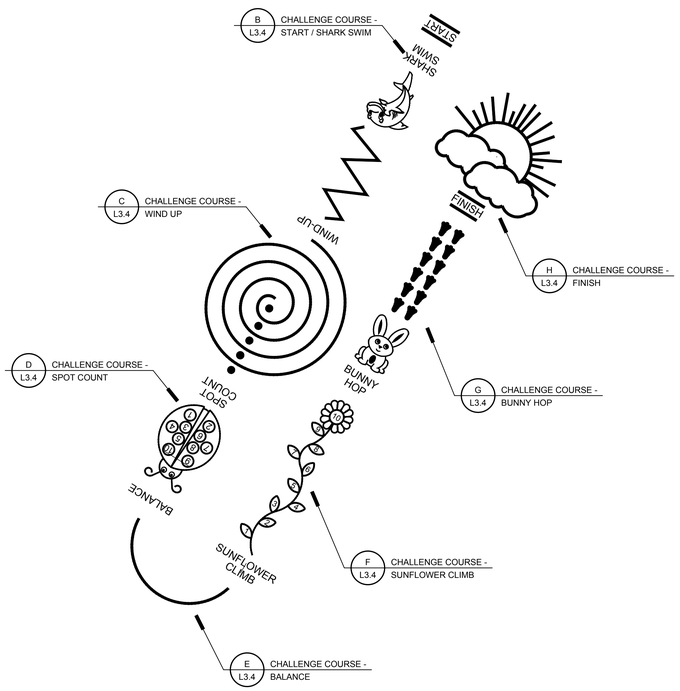
1. CONTRACTOR SHALL LOCATE PLAY STRUCTURE COMPONENTS AS SHOWN.
2. INSTALL ALL COMPONENTS PER THE MANUFACTURER'S INSTALLATION GUIDE
3. ALL COMPONENTS ARE AVAILABLE THROUGH GAMETIME MRC. CONTACT PERSON: LEO SEAVEY, (415) 246-9022
4. **PLAY STRUCTURE IS TO BE DISTRICT PURCHASED, DISTRICT INSTALLED.**
5. ALL DIMENSIONS FOR LOCATING THE PLAY STRUCTURE SHALL BE TAKEN FROM THE INSIDE OF THE CURB (IOC).
6. GROUND SURFACES WITHIN PLAY AREAS SHALL COMPLY WITH ASTM F1951 (CBC 11B - 1008.2.6.1). REFER TO SPECIFICATION SECTIONS 32 18 16 "SYNTHETIC RESILIENT SURFACING" AND SPECIFICATION SECTION 32 18 16 FOR ASTM F1951 TEST RESULTS.
7. GROUND SURFACES WITHIN USE ZONES SHALL COMPLY WITH ASTM F1292 (CBC 11B - 1008.2.6.2). REFER TO SPECIFICATION SECTIONS 32 18 16 "SYNTHETIC RESILIENT SURFACING" AND SPECIFICATION SECTION 32 18 16 FOR ASTM F1292 TEST RESULTS.
8. ALL GAMETIME PLAY STRUCTURE EQUIPMENT IS COMPLIANT WITH CBC SECTION 11B-240.

CRITICAL FALL HEIGHT OF STRUCTURES = 0'-0"

TOTAL ELEVATED PLAY COMPONENTS	0		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	0	REQUIRED	0
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	0	REQUIRED	0
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	0	REQUIRED	0



B PLAY STRUCTURE - PRESCHOOL — SCALE: 1/4" = 1'-0"



NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES AND COLOR LEGEND.

I CHALLENGE COURSE ENLARGEMENT — SCALE: 1/4" = 1'-0"

PLAY BOX NOTES:

1. CONTRACTOR SHALL LOCATE PLAY STRUCTURE COMPONENTS AS SHOWN.
2. INSTALL ALL COMPONENTS PER THE MANUFACTURER'S INSTALLATION GUIDE
3. ALL COMPONENTS ARE AVAILABLE THROUGH GAMETIME MRC. CONTACT PERSON: LEO SEAVEY, (415) 246-9022
4. **PLAY STRUCTURE IS TO BE DISTRICT PURCHASED, DISTRICT INSTALLED.**
5. ALL DIMENSIONS FOR LOCATING THE PLAY STRUCTURE SHALL BE TAKEN FROM THE INSIDE OF THE CURB (IOC).
6. GROUND SURFACES WITHIN PLAY AREAS SHALL COMPLY WITH ASTM F1951 (CBC 11B - 1008.2.6.1). REFER TO SPECIFICATION SECTIONS 32 18 16 "SYNTHETIC RESILIENT SURFACING" AND SPECIFICATION SECTION 32 18 16 FOR ASTM F1951 TEST RESULTS.
7. GROUND SURFACES WITHIN USE ZONES SHALL COMPLY WITH ASTM F1292 (CBC 11B - 1008.2.6.2). REFER TO SPECIFICATION SECTIONS 32 18 16 "SYNTHETIC RESILIENT SURFACING" AND SPECIFICATION SECTION 32 18 16 FOR ASTM F1292 TEST RESULTS.
8. ALL GAMETIME PLAY STRUCTURE EQUIPMENT IS COMPLIANT WITH CBC SECTION 11B-240.

CRITICAL FALL HEIGHT OF STRUCTURES = 6'-0"

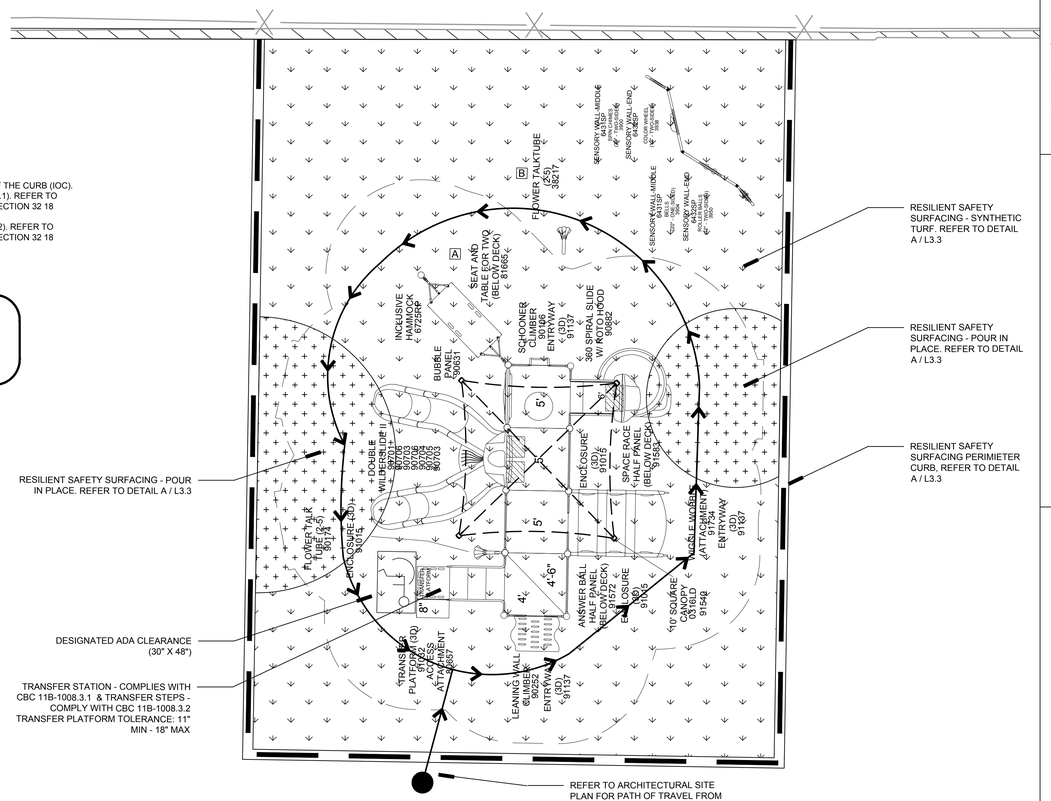
TOTAL ELEVATED PLAY COMPONENTS	2	
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	REQUIRED	3
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	REQUIRED	2
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	REQUIRED	2

ACCESSIBLE GROUND LEVEL COMPONENTS

A SEAT AND TABLE FOR TWO

B FLOWER TALKTUBE

THIS PLAY STRUCTURE IS NOT PART OF DSA STRUCTURAL APPROVAL



A PLAY STRUCTURE - TK — SCALE: 1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

DSA APP. NO: 01-121552

CA+SA STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT
BRENT S SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT
Matthew R.L. Lopez No. 6061
12/31/2024
Renewal Date
02/09/2024
Date
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE 02.09.2024

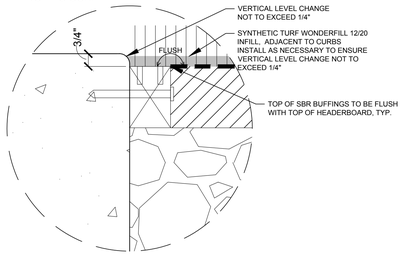
PROJECT No.: 2023-014
ANLA - #2352

DSA OTC SUBMITTAL

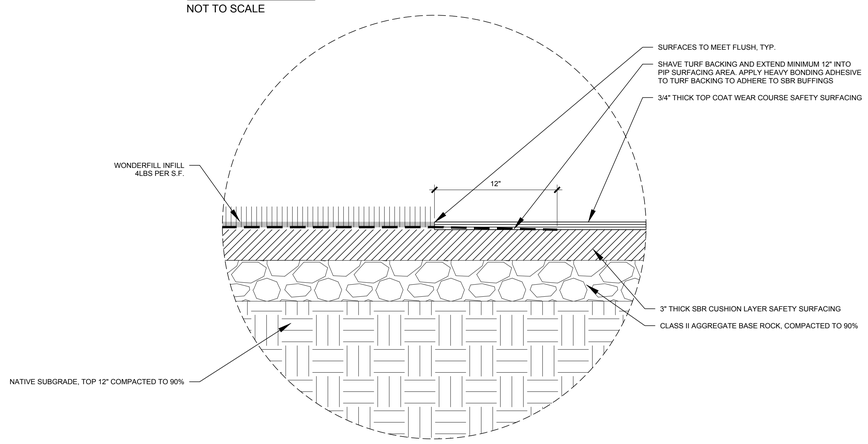
CONSTRUCTION DETAILS

L3.2

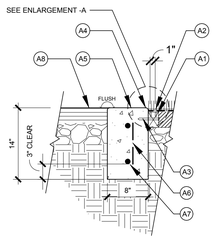
ENLARGEMENT-A
NOT TO SCALE



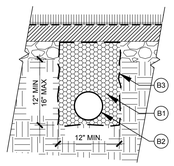
ENLARGEMENT -C
NOT TO SCALE



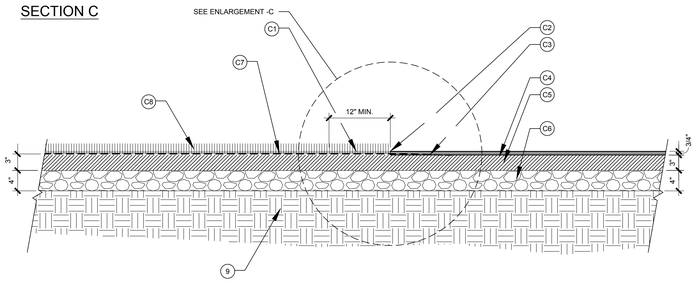
SECTION A



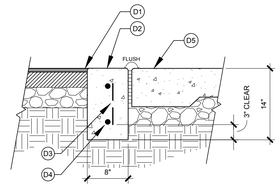
SECTION B



SECTION C



SECTION D



SECTION A KEYNOTES:

- (A1) HEADERBOARD: SET 3/4" BELOW TOP OF CURB. AT CURVED CURBS: INSTALL RECYCLED PLASTIC 2"x4" BEND-A-BOARD OR EQUAL. AT STRAIGHT CURBS: INSTALL PRESSURE TREATED 2"x4" HEADERBOARD
- (A2) 1"x1/4"x1" GALVANIZED METAL STAPLE, (2) ROWS SPACED 1" APART AND 1" O.C.
- (A3) 1/2" X 4-1/4" STAINLESS STEEL RED HEAD WEDGE ANCHOR @ 24" O.C.
- (A4) VERTICAL LEVEL CHANGE NOT TO EXCEED 1/4"
- (A5) CONCRETE PERIMETER CURB AT PLAY STRUCTURE TO HAVE BROOM FINISH LENGTHWISE, 1/2" RADIUS EDGES, SCORE JOINTS AT 8' O.C. MAX. AND EXPANSION JOINTS AT 24' O.C. MAX. SCORE AND EXPANSION JOINTS SHALL BE EVENLY SPACED
- (A6) #3 VERTICAL REBAR @ 18" O.C.
- (A7) #3 HORIZONTAL REBAR @ TOP & BOTTOM
- (A8) ASPHALT PAVING

SECTION B KEYNOTES:

- (B1) 3/4" DIAMETER ANGULAR DRAIN ROCK
- (B2) 4" OR 6" DIAMETER PERFORATED SCH 40 PVC PIPE. MIN 0.5% SLOPE TO DRAIN. CONNECT TO NEAREST STORM DRAIN PER PLAN. REFER TO CIVIL DRAWINGS.
- (B3) FILTER FABRIC MEMBRANE TO WRAP 3/4" DIAMETER ANGULAR DRAIN ROCK AND PERFORATED PVC SDR 35 PIPE.

SYNTHETIC TURF NOTES:

1. CONTRACTOR TO INSTALL SYNTHETIC TURF PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION DETAILS.
2. SYNTHETIC TURF TO BE 'GT IMPAX 87 OZ' AVAILABLE THROUGH GAMETIME MRC. LOCAL REPRESENTATIVE: LEO SEAVEY (415) 246-9022
3. REFER TO SPECIFICATION SECTION 32 18 16 - SYNTHETIC RESILIENT SURFACING.
4. SECURE SEAMS USING NORDOT 34G OR SIMILAR ADHESIVE AND TAPE PER MANUFACTURER'S RECOMMENDATIONS.
5. ENVIROFILL 12/20 SYNTHETIC TURF INFILL AVAILABLE THROUGH GAMETIME MRC.
6. INSTALL TURF WITH BLADES FACING ALTERNATING DIRECTION UNLESS INDICATED OTHERWISE ON DRAWING.
7. FOR OVERALL UNIFORMITY IN VARIETY OF GRASS BLADE COLOR, DO NOT INSTALL PILES WITH TWO ROWS OF SAME COLOR TOGETHER.

POUR-IN-PLACE SURFACING NOTES:

1. SAFETY SURFACING TO BE GT IMPAX, AVAILABLE THROUGH GAMETIME MRC. LOCAL REPRESENTATIVE: LEO SEAVEY (415) 246-9022

TPV TOP COLOR MIXTURE SHALL COMPRISED OF UP TO THREE STANDARD COLORS TO BE SELECTED BY ARCHITEC.T

2. FOR RESILIENT SURFACING @ PLAY STRUCTURE NOTES REFER TO DETAIL A / L3.2.

SECTION C KEYNOTES:

- (C1) CONCRETE PAVING - PEDESTRIAN
- (C2) SURFACES TO MEET FLUSH, TYP.
- (C3) SHAVE TURF BACKING AND EXTEND MINIMUM 12" INTO PIP SURFACING AREA. APPLY HEAVY BONDING ADHESIVE TO TURF BACKING TO ADHERE TO SBR BUFFINGS
- (C4) 3/4" THICK TOP COAT WEAR COURSE SAFETY SURFACING
- (C5) 3" THICK SBR CUSHION LAYER SAFETY SURFACING
- (C6) CLASS II AGGREGATE BASE ROCK, COMPACTED TO 90%
- (C7) ENVIROFILL INFILL 4LBS PER S.F.
- (C8) SYNTHETIC TURF, GT IMPAX 87 OZ
- (C9) NATIVE SUBGRADE, TOP 12" COMPACTED TO 90%

SECTION D KEYNOTES:

- (D1) SURFACES TO MEET FLUSH
- (D2) CONCRETE PERIMETER CURB AT PLAY STRUCTURE TO HAVE BROOM FINISH LENGTHWISE, 1/2" RADIUS EDGES, SCORE JOINTS AT 8' O.C. MAX. AND EXPANSION JOINTS AT 24' O.C. MAX. SCORE AND EXPANSION JOINTS SHALL BE EVENLY SPACED
- (D3) #3 VERTICAL REBAR @ 18" O.C.
- (D4) #3 HORIZONTAL REBAR @ TOP & BOTTOM
- (D5) CONCRETE PAVING OR ASPHALT PAVING, WHERE OCCURS.

PLAY SURFACING TO BE DISTRICT PURCHASED, DISTRICT INSTALLED

A RESILIENT SAFETY SURFACING

SCALE: NTS

IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

DSA APP. NO: 01-121552

CA+SA STUDIO
1100 LINCOLN AVENUE, SUITE 106
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REGISTERED ARCHITECT
KRENT S SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT
JOSEPH R.L. LOPEZ No. 6061
12/31/2024
Renewal Date
02/09/2024
Date
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE 02.09.2024

PROJECT No.: 2023-014
ANLA - #2352

DSA OTC SUBMITTAL

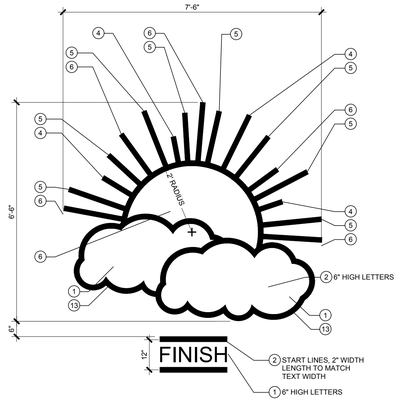
CONSTRUCTION DETAILS

L3.3

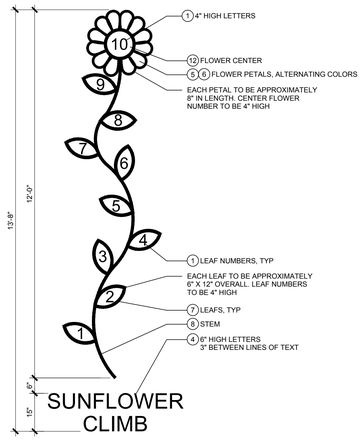
NOT USED

J

NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES

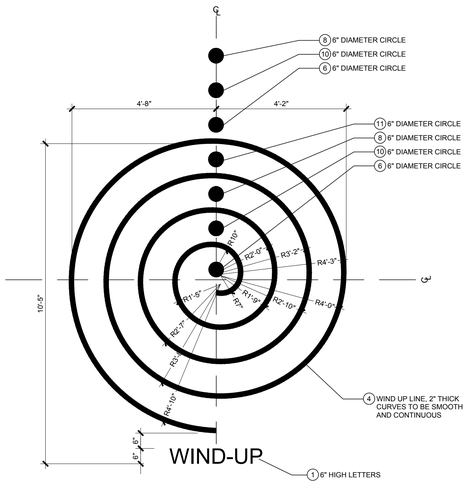


H CHALLENGE COURSE - FINISH SCALE: NTS



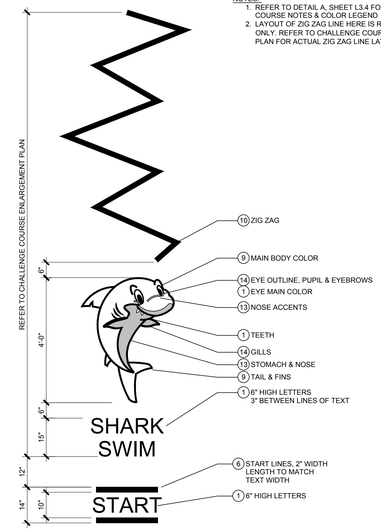
NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES AND COLOR LEGEND.

F CHALLENGE COURSE - SUNFLOWER CLIMB



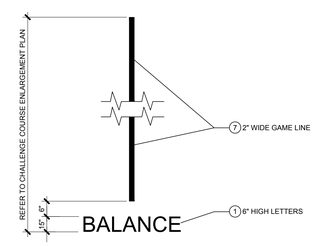
NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES AND COLOR LEGEND.

C CHALLENGE COURSE - WIND UP SCALE: NTS



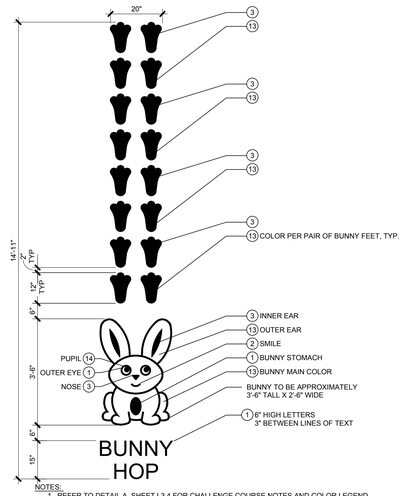
NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES & COLOR LEGEND
2. LAYOUT OF ZIG ZAG LINE HERE IS REPRESENTATIVE ONLY. REFER TO CHALLENGE COURSE ENLARGEMENT PLAN FOR ACTUAL ZIG ZAG LINE LAYOUT.

B CHALLENGE COURSE - START / SHARK SWIM SCALE: NTS



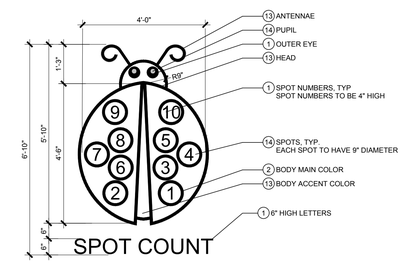
NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES AND COLOR LEGEND.
2. PATH LINE SHOWN HERE IS REPRESENTATIVE ONLY. REFER TO CHALLENGE COURSE ENLARGEMENT PLAN FOR ACTUAL PATH LAYOUT

E CHALLENGE COURSE - BALANCE SCALE: NTS



NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES AND COLOR LEGEND.
2. LAYOUT OF FEET SHOWN HERE IS REPRESENTATIVE ONLY. REFER TO CHALLENGE COURSE ENLARGEMENT PLAN FOR ACTUAL FEET LAYOUT

G CHALLENGE COURSE - BUNNY HOP SCALE: NTS



NOTES:
1. REFER TO DETAIL A, SHEET L3.4 FOR CHALLENGE COURSE NOTES AND COLOR LEGEND.

D CHALLENGE COURSE - SPOT COUNT SCALE: NTS

COLOR LEGEND

SYMBOL	DETAIL DESCRIPTION
	COLOR 1 - WHITE KMW22 "CREAM CHEESE FROSTING"
	COLOR 2 - RED KMA1 "BENTO BOX"
	COLOR 3 - PINK KMS491 "SURFER GIRL"
	COLOR 4 - ORANGE KM5530 "BLISSFUL ORANGE"
	COLOR 5 - DK ORANGE KMA13 "ORANGE ZEST"
	COLOR 6 - YELLOW KMA9 "YUZU JAM"
	COLOR 7 - LT GREEN KMA16 "TREE FROG"
	COLOR 8 - DK GREEN KMA18 "PUTTING GREEN"
	COLOR 9 - LT BLUE KM5007 "BAJA BLUE"
	COLOR 10 - DK BLUE KMA32 "BLUE BIRD DAY"
	COLOR 11 - PURPLE KMA40 "ZIMIDAR"
	COLOR 12 - BROWN KMA54 "TOPAZ MOUNTAIN"
	COLOR 13 - GRAY KM4894 "CAVE PAINTING"
	COLOR 14 - BLACK KMA90 "BLACKJACK"

(1) INDICATES CORRESPONDING COLOR #

NOTES:
1. REFER TO SPECIFICATION SECTION 32 17 23.13 - PAINTED PAVEMENT MARKINGS
2. REFER TO CHALLENGE COURSE ENLARGEMENT FOR COURSE LAYOUT. ARCHITECT AND/OR OWNER'S REPRESENTATIVE SHALL APPROVE LAYOUT PRIOR TO INSTALLATION.
3. ALL PAINTED PAVEMENT MARKINGS TO BE KELLY-MOORE ACRYSHIELD EXTERIOR PAINT OR APPROVED EQUAL, AVAILABLE THROUGH KELLY-MOORE, WWW.KELLYMOORE.COM
4. PAINT IS TO BE APPLIED IN 2-3 COATS AS REQUIRED TO OBTAIN FULL COVERAGE, EVEN COLOR, UNIFORM SHEEN, AND MAXIMUM DURABILITY. ALLOW AT LEAST 4 HOURS DRYING TIME BETWEEN EACH COAT.
5. TOP COAT OF PAINT IS TO BE TEXTURED AND SLIP RESISTANT AS REQUIRED PER CBC CHAPTER 11B-302.1. INCORPORATE H&C SHARKGRIP SLIP-RESISTANT ADDITIVE INTO FINAL TOPCOAT OF PAINT AT MANUFACTURER RECOMMENDED RATES, APPROXIMATELY 3.2 OZ PER GALLON, AND APPLY TOP COAT WITH A ROLLER. REFER TO SPECIFICATION 32 17 23.13 "PAINTED PAVEMENT MARKINGS."
6. ALL TEXT SHALL BE ARIAL FONT, 6" HIGH UNLESS OTHERWISE NOTED. COLOR PER DETAIL. EDGES OF ALL LETTERS ARE TO BE CRISP AND WITH NO OVERSPRAY OR OVERPAINTING ON ADJACENT SURFACES. STENCIL GAPS WITHIN LETTERS SHALL NOT BE PERMITTED.
7. UNLABELED "CONNECTION" LINES BETWEEN COMPONENTS (WHERE OCCUR) SHALL BE 2" WIDE, COLOR 1.
8. **CONTRACTOR TO VERIFY WHICH COLORS WILL BE USED IN THE SITE SPECIFIC CHALLENGE COURSE PRIOR TO PURCHASING PAINT. NOT ALL COLORS WILL BE USED.**

A CHALLENGE COURSE - NOTES SCALE: NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

DSA APP. NO: 01-121552

CA+SA STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT
BRENT S SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT
NATHAN R.L. Lopez No. 6961
12/31/2024
Renewal Date
02/09/2024
Date
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE 02.09.2024

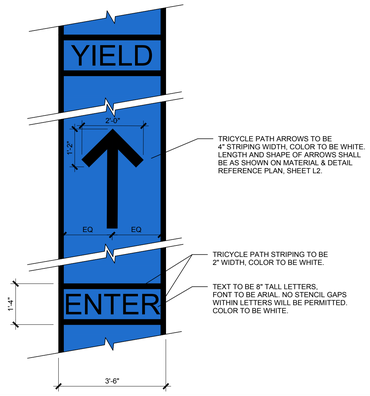
PROJECT No.: 2023-014
ANLA - #2352

DSA OTC SUBMITTAL

CONSTRUCTION DETAILS

L3.4

NOTES:
1. REFER TO DETAIL A, SHEET L3.5 FOR GAME COURT STRIPING COLOR LEGEND AND NOTES.
2. TRICYCLE PATH STRIPING SHALL BE TEXTURED AND SLIP RESISTENT AS REQUIRED PER CHAPTER 11B-302.1. REFER TO SPECIFICATION SECTION 32 12 16.1
3. TRICYCLE PATH TO BE 3'-6" WIDE UNLESS OTHERWISE NOTED. REFER TO LAYOUT PLAN.
4. TRICYCLE PATH TO BE COLOR 9 - LT BLUE, KM5007 "BAJA BLUE" AS SHOWN ON MATERIAL & DETAIL REFERENCE PLAN.
5. TRICYCLE PATH "PARKING AREA" TO BE COLOR 7 - LT GREEN KMA16 "TREE FROG" AS SHOWN ON MATERIAL & DETAIL REFERENCE PLAN.
6. TRICYCLE PATH STRIPING TO BE OUTLINED IN 2" WIDE WHITE SPORT COURT GAME LINE PAINT. REFER TO SPECIFICATION SECTION 32 12 16.1



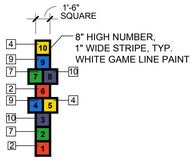
TRICYCLE PATH ARROWS TO BE 4" STRIPING WIDTH, COLOR TO BE WHITE. LENGTH AND SHAPE OF ARROWS SHALL BE AS SHOWN ON MATERIAL & DETAIL REFERENCE PLAN, SHEET L2.

TRICYCLE PATH STRIPING TO BE 2" WIDTH, COLOR TO BE WHITE.

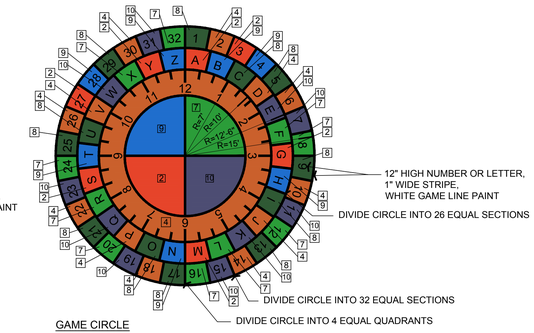
TEXT TO BE 8" TALL LETTERS, FONT TO BE ARIAL. NO STENCIL GAPS WITHIN LETTERS WILL BE PERMITTED. COLOR TO BE WHITE.

F GAME COURT STRIPING - TRICYCLE PATH

SCALE: NTS



HOP SCOTCH
KINDERGARTEN

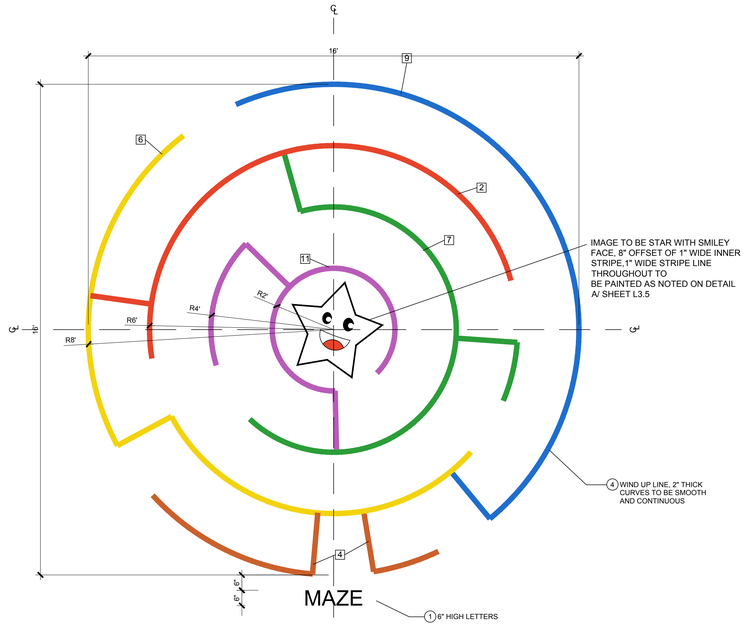


GAME CIRCLE

NOTES:
1. REFER TO DETAIL A, SHEET L3.5 FOR GAME COURT STRIPING COLOR LEGEND AND NOTES.

E GAME COURT STRIPING

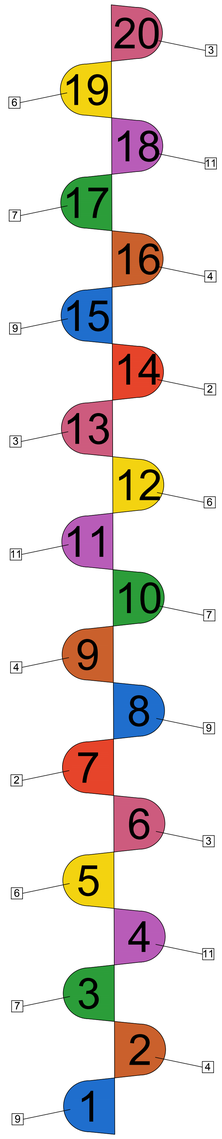
SCALE: NTS



NOTES:
1. REFER TO DETAIL A, SHEET L3.5 FOR GAME COURT STRIPING COLOR LEGEND AND NOTES.

C GAME COURT STRIPING - MAZE

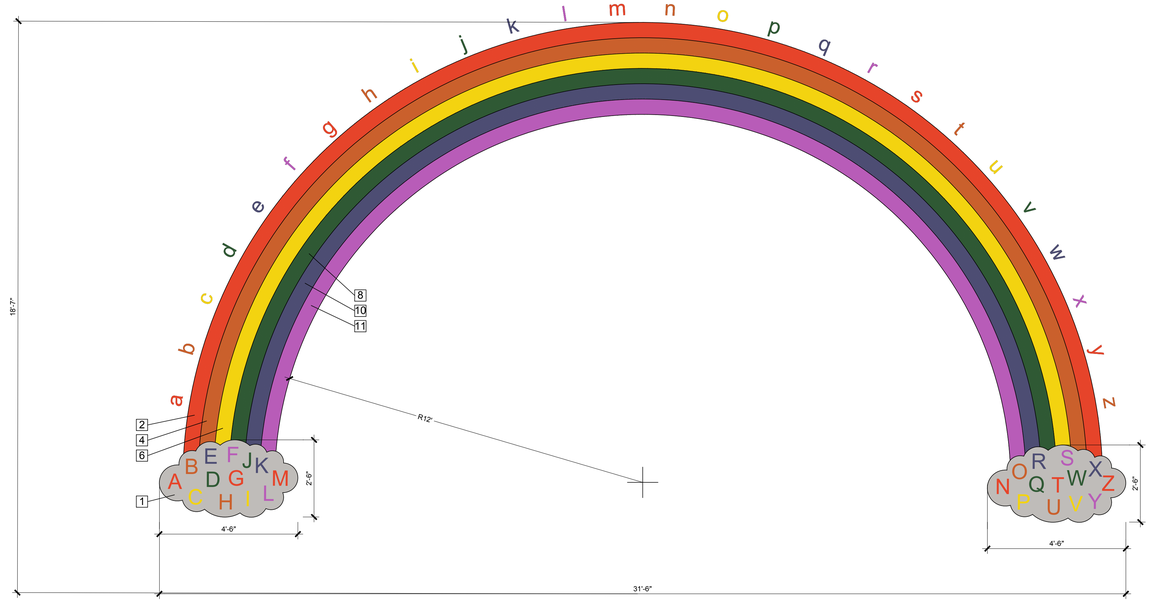
SCALE: NTS



NOTES:
1. REFER TO DETAIL A, SHEET L3.5 FOR GAME COURT STRIPING COLOR LEGEND AND NOTES.

B GAME COURT STRIPING - NUMBER SWIRL

SCALE: NTS



① COLOR DETAIL DESCRIPTION
CLOUD COLOR - AS NOTED ON DETAIL A / L3.5

LOWER CASE:
COLOR 2 - RED - a, g, m, s, y
COLOR 4 - ORANGE - b, h, n, t, z
COLOR 6 - YELLOW - c, i, o, u
COLOR 8 - DK GREEN - d, j, p, v
COLOR 10 - DK BLUE - e, k, q, w
COLOR 11 - PURPLE - f, l, r, x

UPPER CASE
COLOR 2 - RED - A, G, M, N, T, Z
COLOR 4 - ORANGE - B, H, O, U,
COLOR 6 - YELLOW - C, I, P, V
COLOR 8 - DK GREEN - D, J, Q, W
COLOR 10 - DK BLUE - E, K, R, X
COLOR 11 - PURPLE - F, L, S, Y

NOTES:
1. REFER TO DETAIL A, SHEET L3.5 FOR GAME COURT STRIPING COLOR LEGEND AND NOTES.

D GAME COURT STRIPING - RAINBOW ALPHABET

SCALE: NTS

COLOR LEGEND

SYMBOL	DETAIL DESCRIPTION		DETAIL DESCRIPTION
	COLOR 1 - WHITE KMW22 "CREAM CHEESE FROSTING"		COLOR 9 - LT BLUE KM5007 "BAJA BLUE"
	COLOR 2 - RED KMA1 "BENTO BOX"		COLOR 10 - DK BLUE KMA32 "BLUE BIRD DAY"
	COLOR 3 - PINK KM5491 "SURFER GIRL"		COLOR 11 - PURPLE KMA40 "ZIMIDAR"
	COLOR 4 - ORANGE KM5530 "BLISSFUL ORANGE"		COLOR 12 - BROWN KMA54 "TOPAZ MOUNTAIN"
	COLOR 5 - DK ORANGE KMA13 "ORANGE ZEST"		COLOR 13 - GRAY KM4894 "CAVE PAINTING"
	COLOR 6 - YELLOW KMA9 "YUZU JAM"		COLOR 14 - BLACK KMA90 "BLACKJACK"
	COLOR 7 - LT GREEN KMA16 "TREE FROG"		
	COLOR 8 - DK GREEN KMA18 "PUTTING GREEN"		

① INDICATES CORRESPONDING COLOR #

NOTES:
1. REFER TO SPECIFICATION SECTION 32 17 23.13 - PAINTED PAVEMENT MARKINGS
2. ALL PAINTED PAVEMENT MARKINGS TO BE KELLY-MOORE ACRYSHIELD EXTERIOR PAINT OR APPROVED EQUAL, AVAILABLE THROUGH KELLY-MOORE, WWW.KELLYMOORE.COM
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6. **CONTRACTOR TO VERIFY WHICH COLORS WILL BE USED IN THIS PROJECT PRIOR TO PURCHASING PAINT. NOT ALL COLORS IN LEGEND WILL BE USED.**

A GAME COURT STRIPING - COLOR LEGEND AND NOTES

SCALE: NTS

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CA SA STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT
TRENT S SOMMERS
LISC NO. C - 33589
EXP 01-31-25
STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT
JOSEPH R.L. LOPEZ No. 6961
12/31/2024
Renewal Date
02/09/2024
Date
STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE 02.09.2024

PROJECT No.: 2023-014
ANLA - #2352

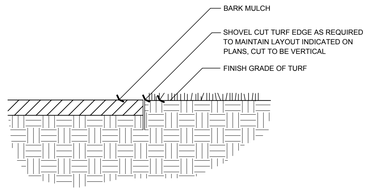
DSA OTC SUBMITTAL

CONSTRUCTION DETAILS

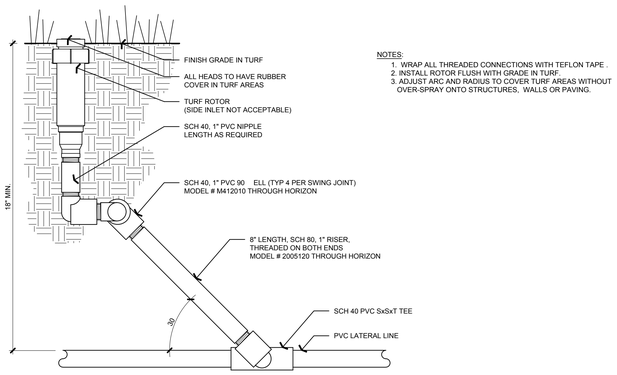
L3.5

NOT USED

D

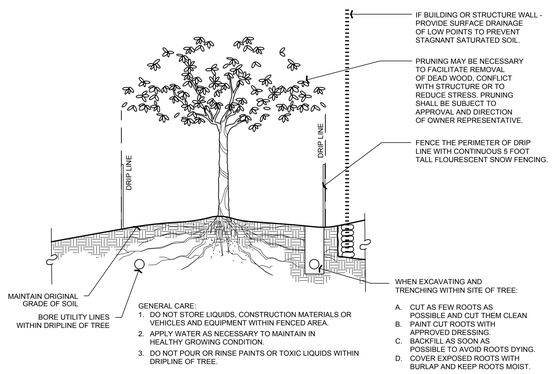


C SHOVEL CUT EDGE SCALE: NTS



NOTES:
1. WRAP ALL THREADED CONNECTIONS WITH TEFLON TAPE .
2. INSTALL ROTOR FLUSH WITH GRADE IN TURF.
3. ADJUST ARC AND RADIUS TO COVER TURF AREAS WITHOUT OVER-SPRAY ONTO STRUCTURES, WALLS OR PAVING.

B TURF ROTORS SCALE: NTS



A TREE PROTECTION SCALE: NTS

IRRIGATION & PLANTING NOTES

GENERAL NOTES:

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT DISTRICT REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
4. REFER TO THE FOLLOWING SPECIFICATION SECTIONS:
   - 01 56 39 TEMPORARY TREE AND PLANT PROTECTION
   - 32 84 00 PLANTING IRRIGATION
   - 32 92 00 TURF PLANTING

IRRIGATION DEMOLITION NOTES:

1. CONTRACTOR SHALL EXECUTE IRRIGATION WORK EXPEDITIOUSLY TO MAINTAIN WATER SERVICE FOR EXISTING TO REMAIN IRRIGATION SYSTEMS LOCATED OUTSIDE OF PROJECT AREA AS REQUIRED TO MAINTAIN PLANT MATERIAL IN A HEALTHY CONDITION.
2. CONTRACTOR SHALL SCHEDULE OR PHASE WORK AS APPROPRIATE WITH GENERAL CONTRACTOR'S OVER-ALL PROJECT SCHEDULING.
3. IRRIGATION CONTRACTOR SHALL INCLUDE IN THEIR BID TO COORDINATE WITH GENERAL CONTRACTOR PRIOR TO DEMOLITION AND GRADING AND MAKE TEMPORARY AND PERMANENT CONNECTIONS AND / OR REPAIRS AS NECESSARY TO MAINTAIN IRRIGATION WATER SERVICE TO IRRIGATION SYSTEMS LOCATED OUTSIDE OF PROJECT AREA AFFECTED BY CONSTRUCTION. CONTRACTOR TO MAINTAIN WATER SUPPLY TO PLANTS AND TURF AT ALL TIMES OR SUPPLY WATER MANUALLY TO MAINTAIN PLANTS AND TURF IN HEALTHY CONDITION THROUGHOUT CONSTRUCTION. **DAMAGE TO TURF DUE TO INSUFFICIENT WATER SHALL BE REPAIRED BY INSTALLING NEW SOD.**

IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.
2. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH OTHER TRADES. CONTRACTOR TO COORDINATE AND VERIFY ALL SLEEVING, PIPING, ELECTRICAL SUPPLY, POINT OF CONNECTION, ETC.
3. ADJUST SPRAY HEADS AND NOZZLES FOR OPTIMUM COVERAGE WHILE PREVENTING OVERSPRAY ONTO WALKWAYS AND STRUCTURES BY USE OF PRESSURE COMPENSATING DEVICES.
4. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN TRENCHING AROUND EXISTING TREES AND SHRUBS. CONTRACTOR SHALL HAND TRENCH WHEN TRENCHING ACROSS ROOTS 2" AND LARGER TO PRESERVE ROOT SYSTEM. ROOTS SMALLER THAN 2" MAY BE TRIMMED. DO NOT TEAR ANY ROOTS.

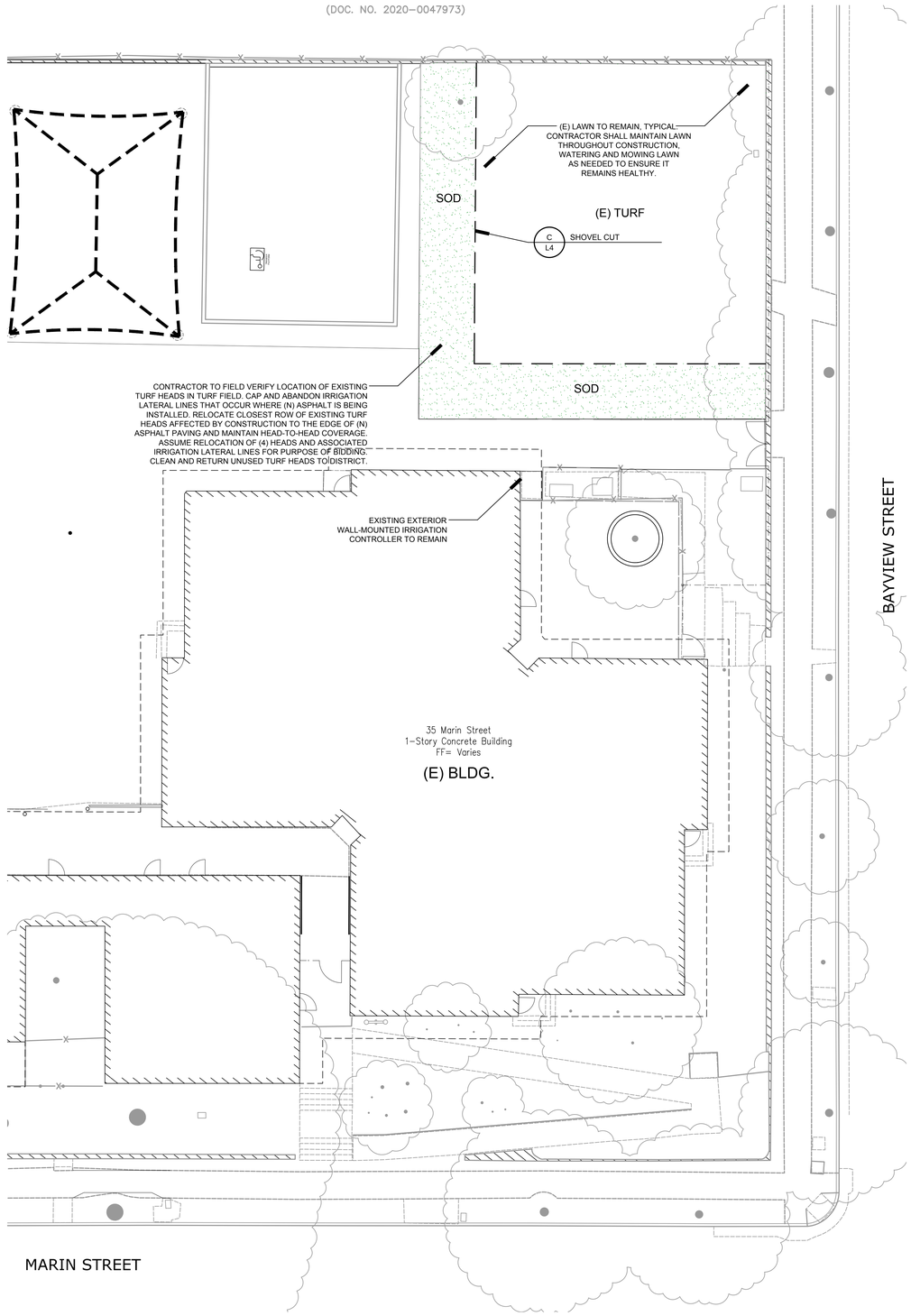
PLANTING NOTES:

1. SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 24 HOURS. SOD SHALL BE KEPT MOIST, FRESH, AND PROTECTED AT ALL TIMES. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. REFER TO SPECIFICATION 32 92 00 FOR ADDITIONAL INSTALLATION AND MAINTENANCE NOTES.
2. ALL EXISTING TREES, SHRUBS AND GROUND COVERS TO REMAIN SHALL BE PROTECTED. ANY DAMAGE CAUSED BY CONTRACTOR'S WORK OR NEGLIGENCE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE.

IRRIGATION & PLANTING LEGEND

SYMBOL	DETAIL DESCRIPTION
TURF	
SOD	SOD DELTA BLUEGRASS BLUE RYE BLEND, WWW.DELTABLUEGRASS.COM, (800) 637-8873
	SHOVEL CUT EDGE

(DOC. NO. 2020-0047973)



NORTH

SCALE: 1" = 10'-0"

0' 5' 10' 20'

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DSA APP. NO: 01-121552

CASA STUDIO
1100 LINCOLN AVENUE, SUITE 106
NAPA, CA 94558

REGISTERED ARCHITECT TRENT S SOMMERS LISC NO. C - 33589 EXP 01-31-25 STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT ISAIAH R.L. Lopez No. 6661 12/31/2024 Renewal Date 02/09/2024 Date STATE OF CALIFORNIA

SAN RAFAEL CITY SCHOOLS

SAN RAFAEL CITY SCHOOL DISTRICT

SHORT ES ECE DEVELOPMENT CENTER

35 MARIN ST, SAN RAFAEL, CA 94901

SAN RAFAEL CITY SCHOOL DISTRICT

DATE 02.09.2024

PROJECT No.: 2023-014
ANLA - #2352

DSA OTC SUBMITTAL

IRRIGATION & PLANTING PLAN

L4

EXTERIOR FACE TYP.

HALLWAY WALL TYP.

DOUBLE DOOR ENTRY TYP.

WINDOW AND DOOR TYP.

COURTYARD-FACING WALL TYP.

BUILDING A (CLASSROOMS)

ADMIN ENTRANCE (EAST FACE)

ADMIN ENTRANCE (NORTH FACE)

BACK OF ADMIN (SOUTH FACE)

EAST FACE

WEST WALL TYP.

BUILDING A (ADMIN)

NORTH AND SOUTH FACE TYP.

EAST FACE TYP.

WEST FACE TYP.

BUILDING B

NORTH FACE

SOUTH FACE

SOUTH FACE

EAST FACE

WEST FACE

BUILDING D

NORTH FACE

SOUTH FACE

EAST FACE

WEST FACE

BUILDING B RESTROOMS

NORTH AND SOUTH SIDE WALL TYP.

EAST AND WEST RAMP SIDE TYP.

BUILDING C

RELOCATABLE CLASSROOMS

SIDE WALL TYP.

BACK WALL TYP.

FRONT WALL TYP.

NOTES:

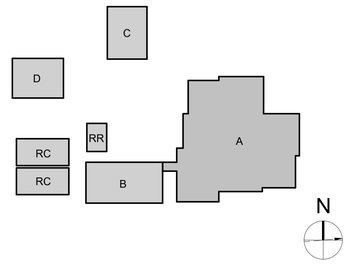
- THE SITE WILL BE PROPERLY PREPARED FOR PAINTING WORK, INCLUDING SANDING, PATCHING AND POWER WASHING ALL APPROPRIATE SURFACES TO BE PAINTED. AREAS OMITTED FROM PAINTING, LIKE MURALS, WILL BE PROTECTED FROM PAINT SPRAY.
- SCHOOL NAME AT FRONT OF BUILDING 'A' TO REMAIN IN PLACE AND BE PROTECTED.
- SALVAGE EXISTING BANNERS AND RETURN TO DISTRICT. PROTECT IN PLACE EXISTING LIGHT FIXTURES, FIRE ALARMS, CAMERAS, COAT RACKS, AND ANY OTHER ACCESSORIES ON WALLS, PRIOR TO PAINTING. REMOVE AND SALVAGE (E) SIGNAGE ON WALLS. REINSTALL SIGNAGE AFTER WALLS HAVE BEEN PAINTED
- APPLY PAINT PER SPECIFICATION SECTION 09-91-00. PAINT WILL BE APPLIED TO ALL EXTERIOR PREVIOUSLY PAINTED SURFACES INCLUDING EXTERIOR STUCCO, SIDING, GUTTERS, DOORS, FRAMES, DOWNSPOUTS, TRIMS, ETC.
- PAINT ALL EXISTING CAMPUS BUILDINGS EXTERIORS, INCLUDING PORTABLES.
- ALL TRIMS AND FINISHES SHOULD MATCH EXISTING ADJACENT COLORS AND FINISHES
- PAINT ALL EXISTING CONDUITS TO MATCH ADJACENT WALL COLOR.
- BUILDING AND WINDOW TRIM/FRAME PAINT COLOR TO BE DETERMINED BY DISTRICT.

A MAIN COLOR TO BE SELECTED BY DISTRICT

B ACCENT COLOR TO BE SELECTED BY DISTRICT

KEY NOTE LEGEND

KEY PLAN



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SHORT ES ECE DEVELOPMENT CENTER

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SAN RAFAEL CITY SCHOOLS

PROJECT No.: 2023-014

CONSTRUCTION DOCUMENTS

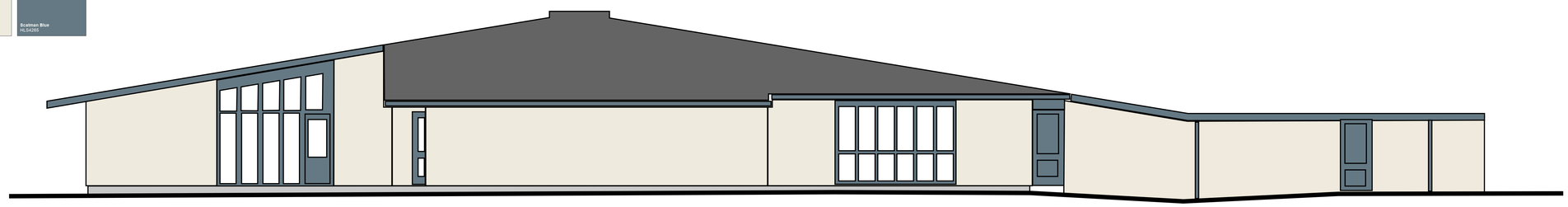
EXTERIOR ELEVATIONS

A1.6

SHORT ELEMENTARY SCHOOL PAINT COLOR OPTIONS

Ivory Mist
KM4926

Scatman Blue
HL54265



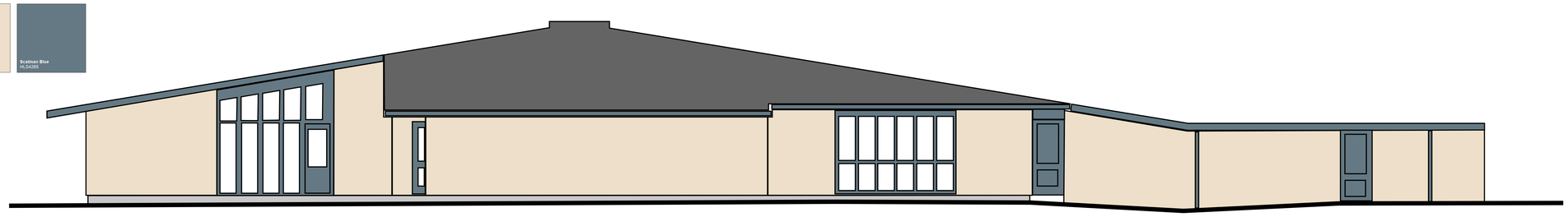
OPTION 1

Ivory Mist
KM4926

OPTION 2

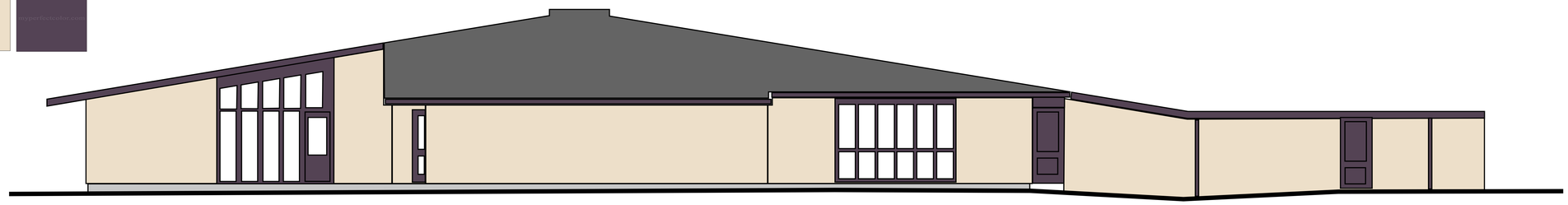
Maybeck Muslin
HL54254

Scatman Blue
HL54265



OPTION 3

Maybeck Muslin
HL54254



OPTION 4

Short Elementary School

CA+SA Studio

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STUDIO
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NAPA, CA 94558

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SAN RAFAEL CITY SCHOOLS

PROJECT No.: 2023-014

CONSTRUCTION DOCUMENTS

COLOR OPTION ELEVATIONS

A1.7

USASHADE & Fabric Structures, Inc.

FABRIC SHADE STRUCTURE

DSA P.C. 04-121917

GENERAL NOTES:

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

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

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

FOR SNOW LOAD MODELS ONLY:

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

P.C. NOTES

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

LIST OF APPLICABLE CODES:

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

APPLICABLE STANDARDS:

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

APPLICABLE CODES

SITE SPECIFIC PARAMETERS

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

SEISMIC

SELECT ONE

- ☒ DESIGN BASED ON SITE CLASS $D_{default}$
  NO GEOTECHNICAL INVESTIGATION REQUIRED
  Ss = 1.5 Fa = 1.2
- ☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
  GEOTECHNICAL INVESTIGATION PROVIDED
  SITE CLASS: ☐ C ☐ D
  Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1
- ☐ DESIGN BASED ON SITE CLASS SPECIFIC GROUND MOTION HAZARD ANALYSIS
  PER CHAPTER 21 OF ASCE 7-16
  SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS} SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
  CGS APPROVAL REQUIRED
  NOT ELIGIBLE FOR OTC REVIEW
  SITE CLASS: ☐ C ☐ D

$S_{DS} = 2/3\ Fa\ Ss =$ 1.5 ≤ 2.0

Cs = 1.6 USED IN DESIGN

SEISMIC DESIGN CATEGORY: ☒ D ☐ E

CODE ANALYSIS			
OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (ft^2)
A-2	15SF/PERSON	80	1,200 SF

SITE SPECIFIC PARAMETERS

MANUFACTURER:

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

ARCHITECT:

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

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

STRUCTURAL ENGINEER:

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

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

ARCHITECT / ENGINEER

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

TOTAL SHEET COUNT: 63 SHEETS

SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

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

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

CUSTOMER:
San Rafael City Schools

PROJECT NAME:
Short Elementary School

LOCATION:
35 Marin Street
San Rafael, CA 94901

MODEL NUMBER:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

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

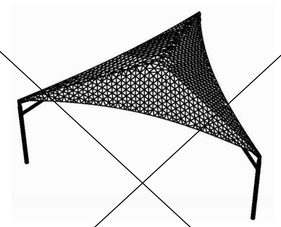
Eng. By :	DWH	2/14/23
Design By :	DWH	2/14/23
Approved By :	DWH	2/14/23

DRAWING DESCRIPTION:

DWG.
TITLE SHEET

SHEET
T-1.0

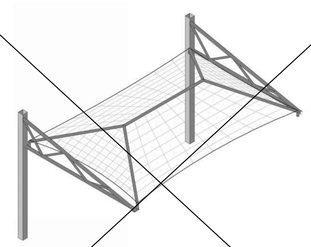
REV.



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

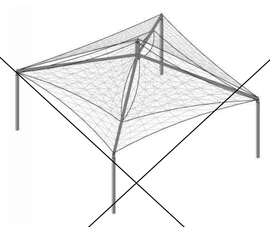
TRIANGLE



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

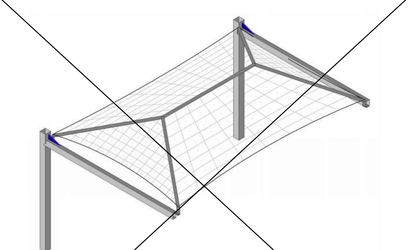
TRI-TRUSS HIP SINGLE WIDE



STRUCTURE MODEL:	DSA4073030-22	SEE SHEET 17.1-1000
MAX. SIZE:	30' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	
STRUCTURE MODEL:	DSA4073040-22	SEE SHEET 18.1-1000
MAX. SIZE:	30' x 40' x 15'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

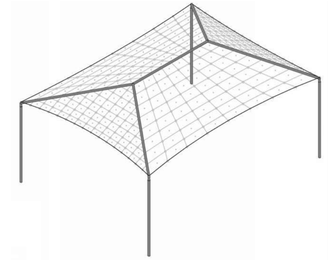
MARINER PEAK



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

FULL CANTILEVER HIP SINGLE



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

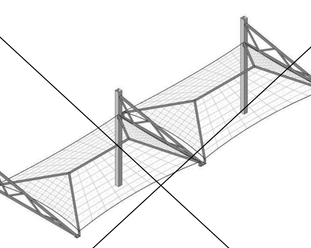
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

HIP

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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

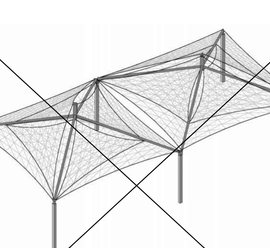
HEXAGON



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

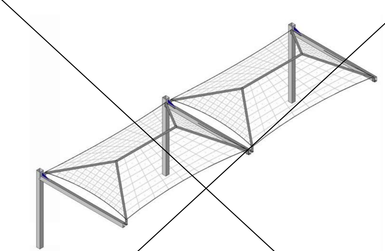
TRI-TRUSS HIP JOINED



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

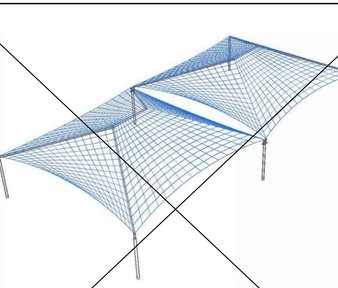
MARINER PEAK JOINED



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

FULL CANTILEVER HIP JOINED



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

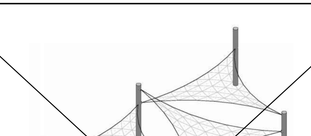
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

JOINED HIP

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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

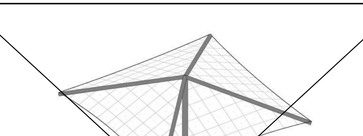
TENSIONS SAILS THREE-POINT



STRUCTURE MODEL:	DSA407Q8060-22	SEE SHEET 20.1-1000
MAX. SIZE:	60' x 60' x 15'	
MAX. AREA:	3,600 SQ. FT.	
MAX. OCCUPANCY:	240 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

MARINER PEAK QUAD



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

SINGLE POST PYRAMID

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

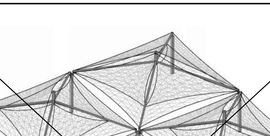
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

QUAD HIP

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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

TENSIONS SAILS FOUR-POINT



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

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

SINGLE POST PYRAMID CANTILEVER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

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

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

CUSTOMER:
San Rafael City Schools

PROJECT NAME:
Short Elementary School

LOCATION:
35 Marin Street
San Rafael, CA 94901

MODEL NUMBER:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ PLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE: D

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

Eng. By :	DWH	2/14/23
Design By :	DWH	2/14/23
Approved By :	DWH	2/14/23

DRAWING DESCRIPTION:

DWG. UNIT SELECTION

SHEET T-2.0

REV.

REGISTERED PROFESSIONAL ENGINEER — MARK ALBERT DIXON — No. 3693 — STRUCTURAL — STATE OF CALIFORNIA
10/18/2023

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

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

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: | **Increment Number:** | **Date Created:** 2023-02-15 15:23:09

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

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

KEY TO COLUMNS

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: | **Increment Number:** | **Date Created:** 2023-02-15 15:23:09

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

	S1. GENERAL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	S3. DRIVEN DEEP FOUNDATIONS (PILES):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	**b.** Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	**d.** Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	**e.** Steel piles.	Provide tests and inspections per STEEL section below.		
☐	**f.** Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	**g.** For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: | **Increment Number:** | **Date Created:** 2023-02-15 15:23:09

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

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC
Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: | **Increment Number:** | **Date Created:** 2023-02-15 15:23:09

	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of required design mix.	Periodic	SI	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identifiy, sample, and test reinforcing steel.	Test	LOR	**1910A.2;** ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	**c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	**Table 1705A.3 Item 6**; ACI 318-19 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'c).	Test	LOR	**1905A.1.17;** ACI 318-19 Section 26.12.
☑	**e.** Batch plant inspection: **Eliminated**	See Notes	SI	Default of **'Continuous'** per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1,** or eliminated per **1705A.3.3.2.** See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	**f.** Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC
Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	**Table 1705A.3 Item 13.** Special inspector to verify specified concrete strength test prior to stressing.
☐	**d.** Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	**1705A.3.4, Table 1705A.3 Item 9;** ACI 318-14 Section 26.13

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC
Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
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	C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect shotcrete placement for proper application techniques.	Continuous	SI	**1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3.** See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	**b.** Sample and test shotcrete (f'c).	Test	LOR	**1908A.2, 1705A.3.8**

	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect installation of post-installed anchors	See Notes	SI*	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	**b.** Test post-installed anchors.	Test	LOR	**1910A.5.** (See Appendix (end of this form) for exemptions.)

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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

	S/A2. HIGH-STRENGTH BOLTS: SEE STRUCTURAL NOTES ON SERIES 1000 SHEETS FOR JOINT TYPE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	**Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	**b.** Test high-strength bolts, nuts and washers.	Test	LOR	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	**c.** Bearing-type ("snug tight") connections.	Periodic	SI	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☑	**d.** Pretensioned and slip-critical connections.	*	SI	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**b.** Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	**Table 1705A.2.1 Item 5a.5;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	**2213A.2**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	**d.** Inspect floor and roof deck welds.	Periodic	SI	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	**e.** Inspect welding of structural cold-formed steel.	Periodic	SI*	**1705A.2.5; AWS D1.3; DSA IR 17-3.** The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	**f.** Inspect welding of stairs and railing systems.	Periodic	SI*	**1705A.2.1;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	**g.** Verification of reinforcing steel weldability.	Periodic	SI	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**h.** Inspect welding of reinforcing steel.	Continuous	SI	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Ultrasonic	Test	LOR	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**b.** Magnetic Particle	Test	LOR	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**c.**	Test	LOR	

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: | **Increment Number:** | **Date Created:** 2023-02-15 15:23:09

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	**1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.**
☐	**b.** Test density.	Test	LOR	**1705A.15.1, 1705A.15.5, ASTM E736**
☐	**c.** Bond strength adhesion/cohesion.	Test	LOR	**1705A.15.1, 1705A.15.4, ASTM E605**

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	**b.** Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917 | **School Name:** PC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: | **Increment Number:** | **Date Created:** 2023-02-15 15:23:09

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	**d.** Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

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

GENERAL DSA-103 NOTES:

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

ADDITIONAL TESTING AND INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. A "DSA CERTIFIED" PROJECT INSPECTRO EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
3. THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE RQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
5. THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
6. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
7. THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
8. PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
   - 8.1. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   - 8.2. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, IT'S LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT LOWE No. 3693 STRUCTURAL STATE OF CALIFORNIA
10/18/2023

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

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

USA SHADE & Fabric Structures®

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

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

CUSTOMER:
San Rafael City Schools

PROJECT NAME:

LOCATION:
Short Elementary School
35 Marin Street
San Rafael, CA 94901

MODEL NUMBER:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE: **D**

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

Eng. By :	**DWH**	**2/14/23**
Design By :	**DWH**	**2/14/23**
Approved By :	**DWH**	**2/14/23**

DRAWING DESCRIPTION:

DWG. **T&I FORMS**

SHEET **T-3.0**

REV.

GENERAL NOTES

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

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

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

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

STRUCTURAL STEEL

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

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

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

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16 GRADE C, IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE GRADE C 46,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM

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

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

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

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

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

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

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

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

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

14.- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

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

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE Fy= 60000 PSI , MIN. GR. 60. ALSO COATED ACCORDING TO ASTM A767/ A767M, STANDARD SPECIFICATION FOR ZINC-COATING (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT.

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329).
ANCHOR BOLT'S DIAMETER NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4"

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

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

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

FABRIC SPECIFICATION

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

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

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

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

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

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

AIRCRAFT CABLE

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

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

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

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

CBC PC DESIGN NOTES

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

ALLOWABLE SOIL PRESSURE:

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

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

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

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

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

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

SEISMIC DESIGN:

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

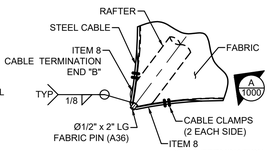
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO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

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

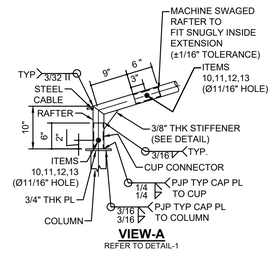
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT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

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

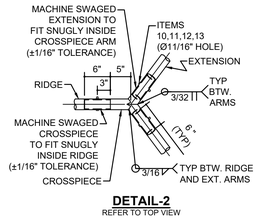
MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



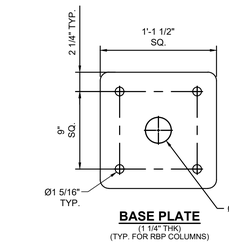
DETAIL 1
REFER TO TOP VIEW



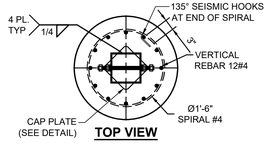
VIEW-A
REFER TO DETAIL-1



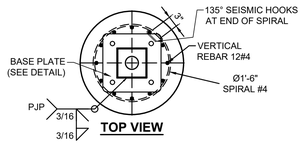
DETAIL-2
REFER TO TOP VIEW



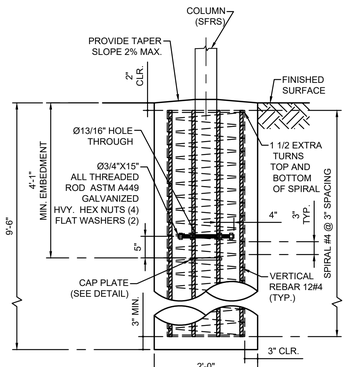
BASE PLATE
(1 1/4" THK)
(TYP. FOR RBP COLUMNS)



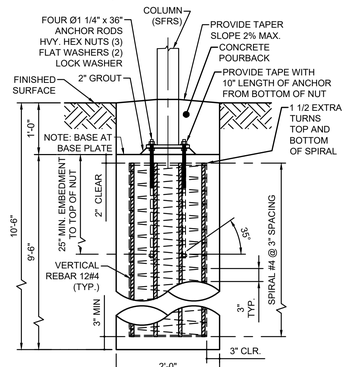
TOP VIEW



TOP VIEW



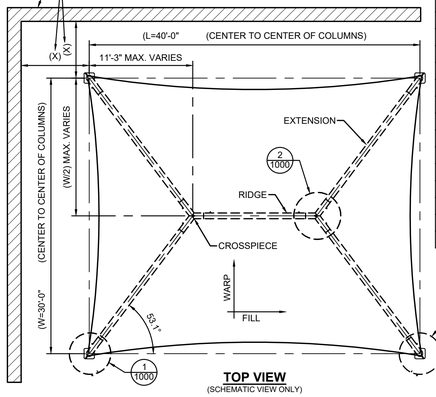
DRILLED PIER FOOTING-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)



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

ADJACENT BUILDING

STRUCTURE SHALL BE INSTALLED A MIN. OF 20'-0" AWAY FROM ADJACENT BUILDING, UNLESS OTHERWISE APPROVED BY D.S.A. ON A JOB SPECIFIC BASIS.

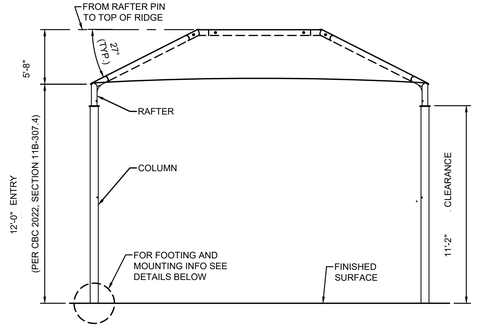


TOP VIEW
(SCHEMATIC VIEW ONLY)

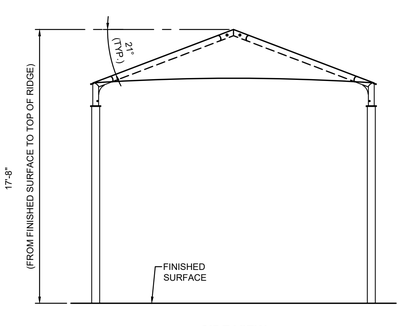
THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.

LIST OF MATERIALS

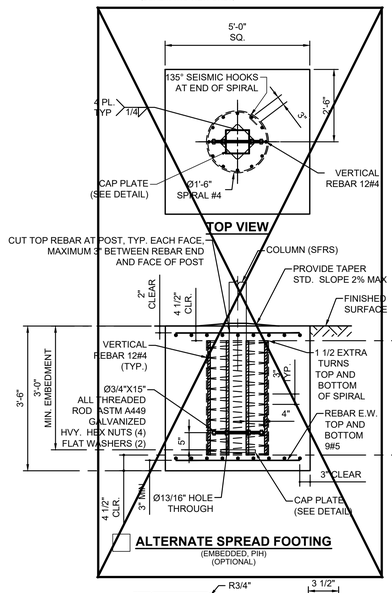
ITEM	QTY	DESCRIPTION	MATERIAL
1	4	COLUMN	HSS 7.0 x 7.0 x 0.250
2	4	CUP CONNECTOR (6" LG)	HSS 4.5 x 0.375
3	4	RAFTER (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (HSS 5.0 x 0.188)
4	4	EXTENSION (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (HSS 5.0 x 0.188)
5	2	CROSSPIECE (GALVANIZED STEEL TUBE)	5.00 GA 7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



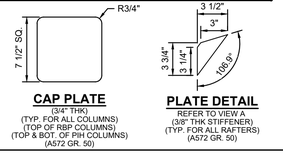
FRONT VIEW
(SCHEMATIC VIEW ONLY)



SIDE VIEW
(SCHEMATIC VIEW ONLY)

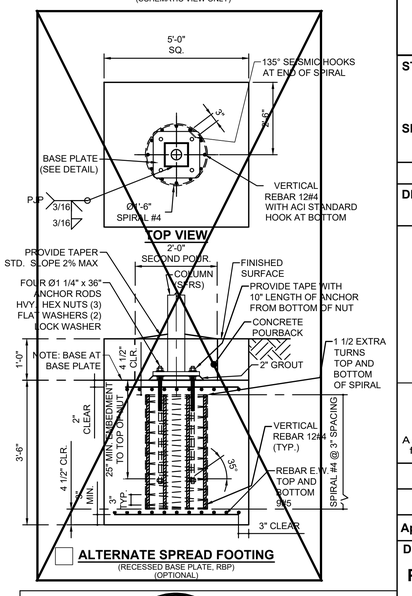


ALTERNATE SPREAD FOOTING
(EMBEDDED, PIH)
(OPTIONAL)



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

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



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

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

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

10/18/2023

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

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

USASHADE & Fabric Structures

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

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

CUSTOMER:
San Rafael City Schools

PROJECT NAME:
Short Elementary School

LOCATION:
35 Marin Street
San Rafael, CA 94901

MODEL NUMBER:
DSA401304012-22

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:
HIP
DSA

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

SCALE : NONE

DRAWING SIZE:
D

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

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

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG.
DSA401304012-22

SHEET
7.1-1000

REV.
NC

Aircraft Cable

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

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

7 x 19

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

190/F5 Fire rated specifications

Multiknit INTERNATIONAL

Standard range

Revision 0 28-Oct-12

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

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

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

PP
Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd

CAL FIRE SINCE 1885

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:

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

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

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

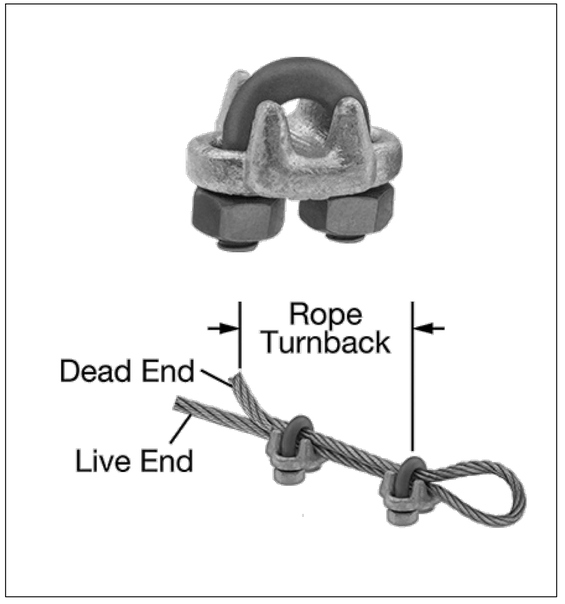
CWalker
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

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

OFFICE OF THE STATE FIRE MARSHAL

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

Page 1 of 1



FORGED WIRE ROPE CLAMP

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121552 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/21/2024

APPROVED
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MODEL NUMBER:
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H I P
DSA

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30' x 40' x 12'e MAX.

SCALE : NONE

DRAWING SIZE: **D**

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

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

DRAWING DESCRIPTION:
SPECIFICATIONS

DWG. **DSA401304012-22**

SHEET **7.2-2000**

REV. **NC**

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

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

10/18/2023