

MITCHELL ELEMENTARY SCHOOL

(N) PLAYGROUND STRUCTURE



**Billy Mitchell
Elementary School**

Lawndale Unified School District

DSA Back Check - May 3rd, 2024

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123948 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/21/2024

ARCHITECT:
westbergwhite
7700 IRVINE CENTER DR., STE. 100
IRVINE, CA 92618
(714) 508-1780 508-1790 FAX

CONSULTANT:
C-11045
EXP. 9-2025
PAUL J. WESTBERG
STATE OF CALIFORNIA

PROJECT NAME:

(N) PLAYGROUND STRUCTURE
MITCHELL ELEMENTARY SCHOOL
14429 SOUTH CONDON AVENUE
LAWNDALE, CA 90260

CLIENT: **LAWNDALE
ELEMENTARY SCHOOL
DISTRICT**
4161 W 147TH ST.
LAWNDALE, CA 90260

Rev.	Date	Description

JOB NO: 23026.01
DATE: 05/03/2024
DRAWN: TG
CHECK: GC/JG
ARCHITECT: PDW
ENGINEER:
SHEET DESCRIPTION:
COVER SHEET

SHEET NO:

G000

CHAPTER 4. PART 1, TITLE 24, C.C.R., ADMINISTRATIVE REQUIREMENTS
(PARTIAL LISTING ONLY)

1. A COPY OF PARTS 1 AND 5, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. ALL CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1 TITLE 24
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T AND I SHEET
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
5. DSA WILL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
6. PROJECT INSPECTOR CLASS 3 WILL BE APPROVED BY DSA. INSPECTION WILL BE IN ACCORDANCE WITH SECTION 4-335(B). THE DUTY OF THE INSPECTOR WILL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
7. SUPERVISION OF THE CONSTRUCTION BY DSA WILL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS WILL SUBMIT VERIFIED REPORTS (FORM DSA-6 BY INSPECTORS AND DSA-6/AE BY ARCHITECTS AND ENGINEERS) IN ACCORDANCE WITH SECTION 4-336 AND 4-334, PART 1, TITLE 24.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER WILL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.
10. THE CONTRACTOR WILL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
- 2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2 AND 2019 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
- 2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
- 2020 INTERNATIONAL MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
- 2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA FIRE CODE (CFC), PART 6, TITLE 24 CCR
- 2018 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
- 2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
- 2020 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS 2016 ASME A17 /CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 417 35A)
- NOTE: CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17-1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

- NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED), 2022 EDITION
- NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED), 2019 EDITION
- NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS, 2021 EDITION
- NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS, 2021 EDITION
- NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2019 EDITION
- NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED), 2019 EDITION
- NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED), 2022 EDITION
- NFPA 72-1 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2019 EDITION
- NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED), 2019 EDITION
- UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT, 2005 (R2010)
- UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES, 2003 EDITION
- UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION
- UL 1971 - STANDARD ON SIGNALING DEVICES FOR THE HEARING IMPAIRED, 2002 (R2024)
- ICC 300 - STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE CHAPTER 35 AND CFC CHAPTER 80 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2022 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 8, 2022.

APPLICABLE CODES

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. _____ FILE NO. _____)

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET INDICATED WITH AN "*"

☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

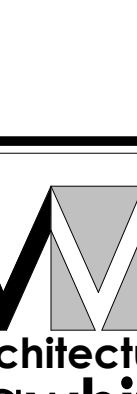
HAVE BEEN AND PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- 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.

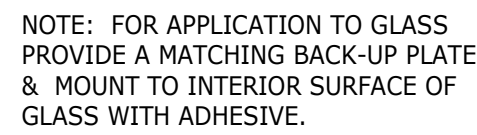
THIS STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 26100 AND 26102 OF THE EDUCATION CODE AND SECTIONS 26200, 26201, AND 26202 OF THE EDUCATION CODE."

4-344* OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 [b])	
I FIND THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET ☐ THIS DRAWING OR PAGE	
☒ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND	☐ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
☒ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.	☐ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.
 SIGNATURE DATE 1/26/2024	SIGNATURE DATE
ARCHITECT OR ENGINEER DESIGNATED IN BE IN GENERAL RESPONSIBLE CHARGE	ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK
Paul D. Westberg PRINT NAME	PRINT NAME
C11045 SEPTEMBER, 2019	LICENSE NUMBER EXPIRATION DATE

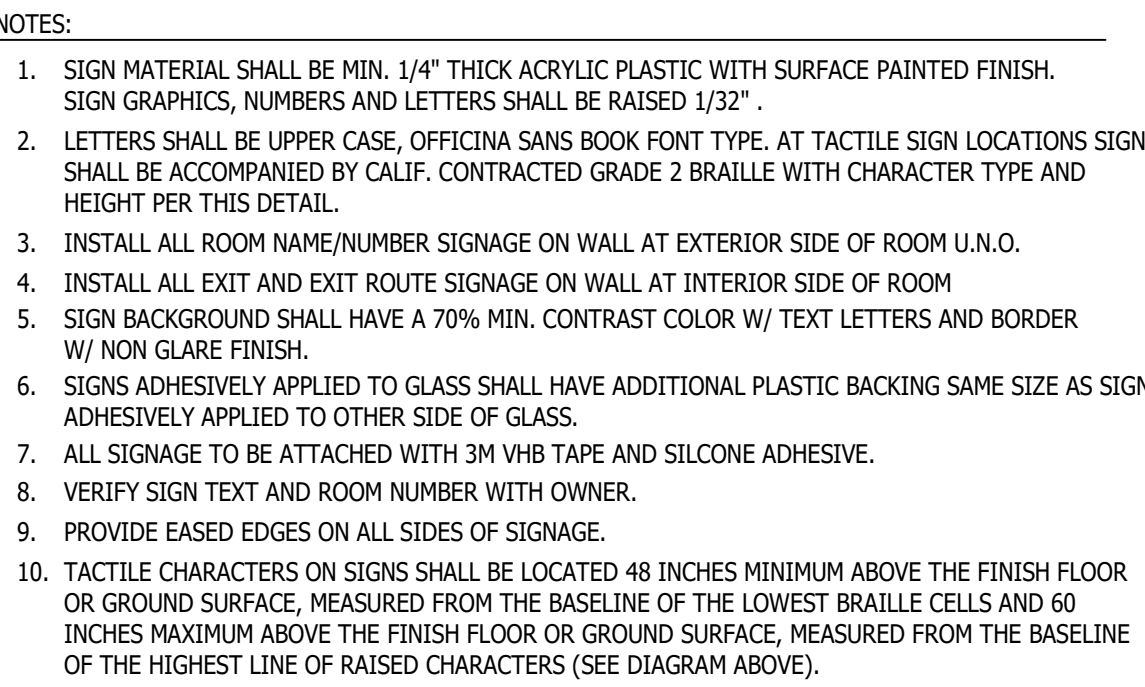
<u>ARCHITECTURAL</u>	(7 Sheets)
GENERAL	
G000	COVER SHEET
G001	SHEET INDEX, SYMBOLS, ABBREVIATIONS, AND NOTES
SITE PLAN(S) AND DETAILS	
A001	SITE PLAN
A002	ENLARGED DEMOLITION SITE PLAN & DETAILS
A003	ENLARGED RENOVATION SITE PLAN & DETAILS
A004	ENLARGED PLAYGROUND SITE DEMO/RENO PLANS
ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS	
A601	ENLARGED PLANS AND INTERIOR ELEVATIONS
<u>*CIVIL</u> (10 Sheets)	
*C-1.0	GENERAL NOTES, LEGENDS, & ABBREVIATIONS
*C-1.1	EXISTING CONDITIONS
*CD-1.0	SITE DEMOLITION PLAN
*C-2.0	SITE CONTROL PLAN
*C-3.0	SITE GRADING PLAN
*C-3.1	SITE GRADING SECTIONS
*C-4.0	MISCELLANEOUS DETAILS
*C-5.0	EROSION CONTROL PLAN
*C-5.1	EROSION DETAILS
*C-6.0	OVEREXCAVATION PLAN
<u>*SHADE STRUCTURE</u> PC: A# 04-121297 (5 Sheets)	
*T-1.0	TITLE SHEET
*T-2.0	UNIT SELECTION
*T-3.0	T&I FORMS
*7.1-1000	PRODUCT INFORMATION
*7.2-2000	SPECIFICATIONS

STATE:		
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT		
APP: 03-123948 INC.		
REVIEWED FOR		
SS ☒	FLS ☒	ACS ☒
DATE: 05/21/2024		
ARCHITECT:		
 architecture westbergwhite 7700 IRVINE CENTER DR., STE. 100 IRVINE, CA 92618 (714) 508-1780 508-1790 FAX		
 		
CONSULTANT:		
PROJECT NAME:		
(N) PLAYGROUND STRUCTURE MITCHELL ELEMENTARY SCHOOL 14429 SOUTH CONDON AVENUE LAWNDALE, CA 90260		
CLIENT: LAWNDALE ELEMENTARY SCHOOL DISTRICT 4161 W 147TH ST. LAWNDALE, CA 90260		
	Rev. Date	Description
JOB NO:	23026.01	
DATE:	05/03/2024	
DRAWN:	TG	
CHECK:	GC/JG	
ARCHITECT:	PDW	
ENGINEER:		
SHEET DESCRIPTION: SHEET INDEX, SYMBOLS, ABBREVIATIONS, AND NOTES		
SHEET NO:		
G001		

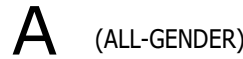
1. FOR MOUNTING SIGNAGE AT WINDOW SEE DETAIL B.
2. VERIFY ALL SIGN TEXT WITH DISTRICT PRIOR TO MANUFACTURING SIGNAGE.
3. PROVIDE AN ADDITIONAL 10 BUILDING SIGNS WITH 40 CHARACTERS PER SIGN TO BE DETERMINED DURING CONSTRUCTION PER THE DISTRICT'S DIRECTION.


$$3'' = 1'-0''$$

7


$$1/2'' = 1'-0''$$

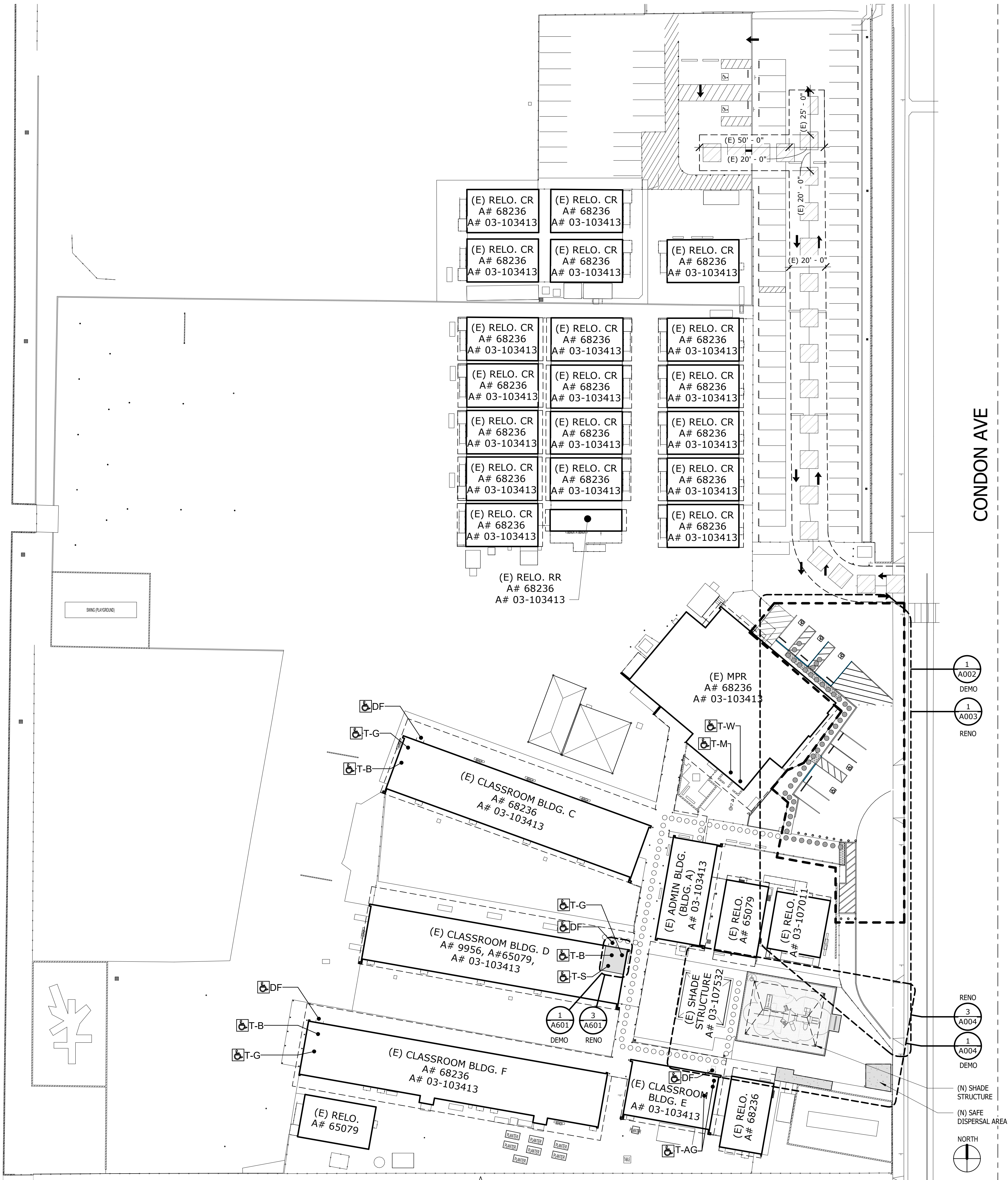
6



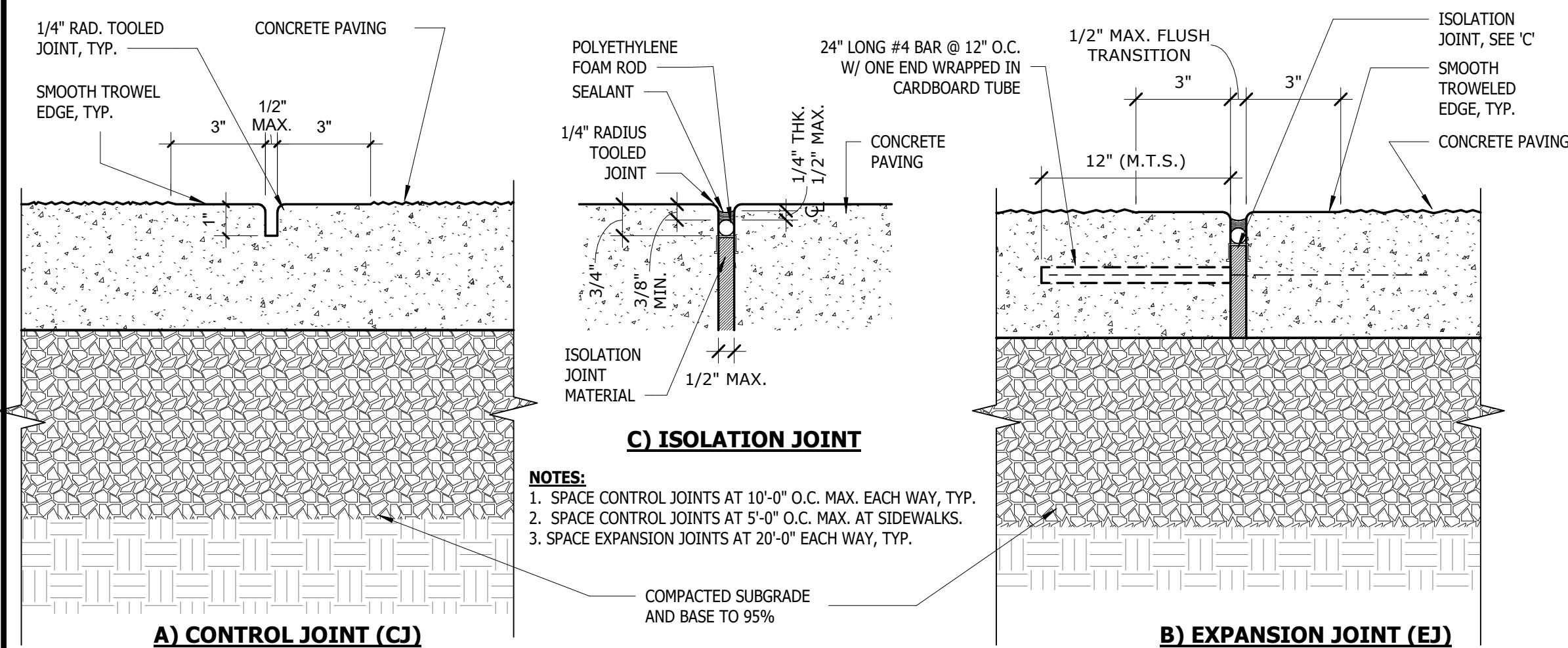
NOTE: COLOR OF TRIANGLE SHALL CONTRAST WITH THE COLOR OF THE CIRCLE. CIRCLE COLOR SHALL CONTRAST WITH DOOR COLOR. TRIANGLE TO BE BLUE AND CIRCLE TO BE WHITE - COLORS TO BE VERIFIED WITH DISTRICT PRIOR TO FABRICATION


$$3'' = 1'-0''$$

5


$$1'' = 30'-0''$$

1


$$12'' = 1'-0''$$

1

$$'' = 1'-0''$$

1

	EXISTING BUILDING(S)/STRUCTURES IN SCOPE OF WORK
	EXISTING BUILDING(S) NOT IN SCOPE OF WORK
	EXISTING FIRE LANE PER A # 03-107532
	SCOPE OF WORK
	PROPERTY LINE
	(E) CHAINLINK FENCE
	ACCESSIBLE FEATURE CALLOUT:
	DF = DRINKING FOUNTAIN T-B = BOYS TOILET T-G = GIRLS TOILET T-AG = ALL GENDER TOILET T-M = MEN TOILET T-W = WOMEN TOILET T-S = STAFF(UNSEXED) TOILET
	(N) P.O.T.
	(E) P.O.T. PER A # 03-103413

LEGEND

STATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123948 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/21/2024

ARCHITECT

architecture
westbergwhite
7700 IRVINE CENTER DR., STE. 100
IRVINE, CA 92618
(714) 508-1780 508-1790 FAX



CONSULTANT

PROJECT NAME:

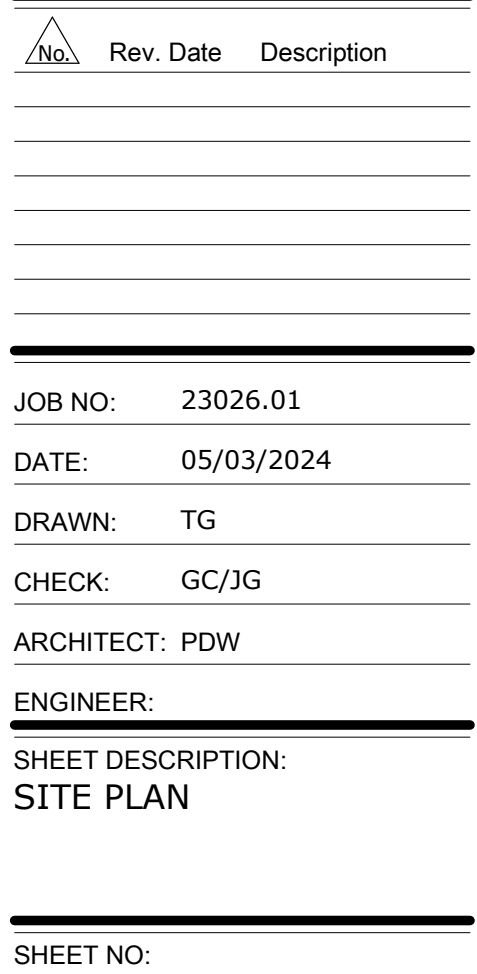
(N) PLAYGROUND STRUCTURE
MITCHELL ELEMENTARY SCHOOL
14429 SOUTH CONDON AVENUE
LAWNDALE, CA 90260

CLIENT

**LAWNDALE
ELEMENTARY SCHOOL
DISTRICT**

4161 W 147TH ST.
LAWNDALE, CA 90260

4161 W 147TH ST.
LAWNDALE, CA 90260



SHEET NO:

A001

B - (E) CONC. TO (N) A.C. PAVING

A - (N) A.C. PAVING TO (E) A.C. PAVING

A.C. PAVING TO A.C. PAVING / CONC. 1" = 1'-0" 20

(N) A.C. PAVING SECTION

NOTE:
1)SAWCUT AND REMOVE EXISTING CONCRETE AT NEAREST JOINT
2) SURFACE 2% MAX. IN ALL DIRECTIONS

(N) CONCRETE TO (E) CONCRETE

NOTES:

1. SEE PLANS FOR ADDITIONAL INFORMATION
2. FINISHING OF CONCRETE SHALL BE DONE AFTER SURFACE BLEED WATER HAS EVAPORATED.
3. CONCRETE SHALL HAVE AIR ENTRAINMENT OF 2% TO 3% BY VOLUME
4. MOISTEN SUB-GRADE PRIOR TO PLACING CONCRETE
5. FILLS SHALL BE COMPACTED THROUGHOUT TO A MINIMUM RELATIVE COMPACTION OF 90%

CONCRETE PAVING

CAST IN PLACE - DETECTABLE WARNING SURFACE

DETECTABLE WARNING SURFACE REQUIREMENTS

- | | |
|-------|--|
| SD005 | REMOVE & SALVAGE (E) WHEEL STOPS FOR REUSE/REINSTALLATION, IF POSSIBLE |
| SD006 | PREPARE (N) AC PAVING FOR (N) PARKING SLAT & AISLE STRIPING PER RENOVATION PLAN |
| SD007 | REMOVE (E) BOLLARD IN ITS ENTIRETY, TYP. |
| SD008 | REMOVE (E) AC PAVING, TYP. SEE CIVIL CD-1.0 FOR LIMITS AND EXTENTS |
| SD009 | REMOVE (E) CONCRETE CURB IN ITS ENTIRETY, TYP. SEE CIVIL CD-1.0 FOR LIMITS AND EXTENTS |
| SE005 | (E) CHAINLINK FENCE & GATE TO REMAIN, PROTECT IN PLACE, TYP. |
| SE010 | (E) BOLLARD TO REMAIN, PROTECT IN PLACE, TYP. |
| SE011 | (E) MOUNDMENT AND CONC BASE TO REMAIN, PROTECT IN PLACE, TYP. |

KEYNOTES

CONCRETE CURB (STRAIGHT)

ZERO CURB

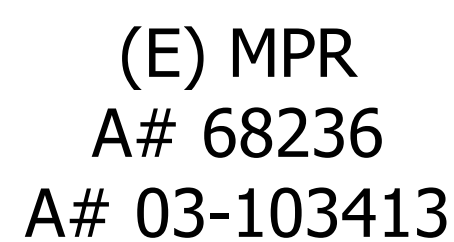
$$1\frac{1}{2}'' = 1'-0''$$
$$1\frac{1}{2}'' = 1'-0''$$

(E) RELO.
A# 03-107011

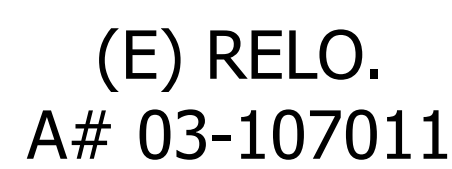
(E) ACCESSIBLE PARKING PLAN - DEMO

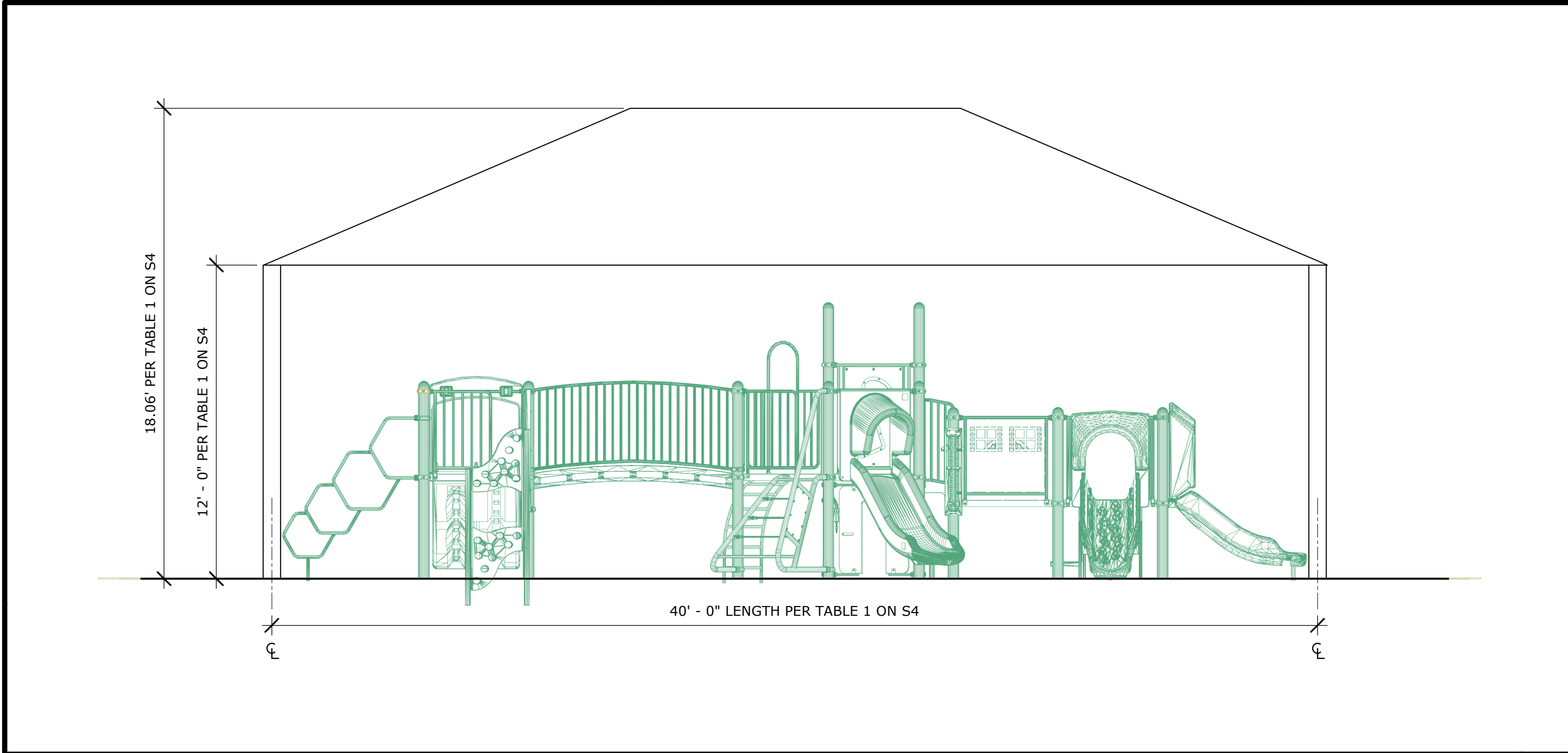
$$1/8'' = 1'-0''$$

1

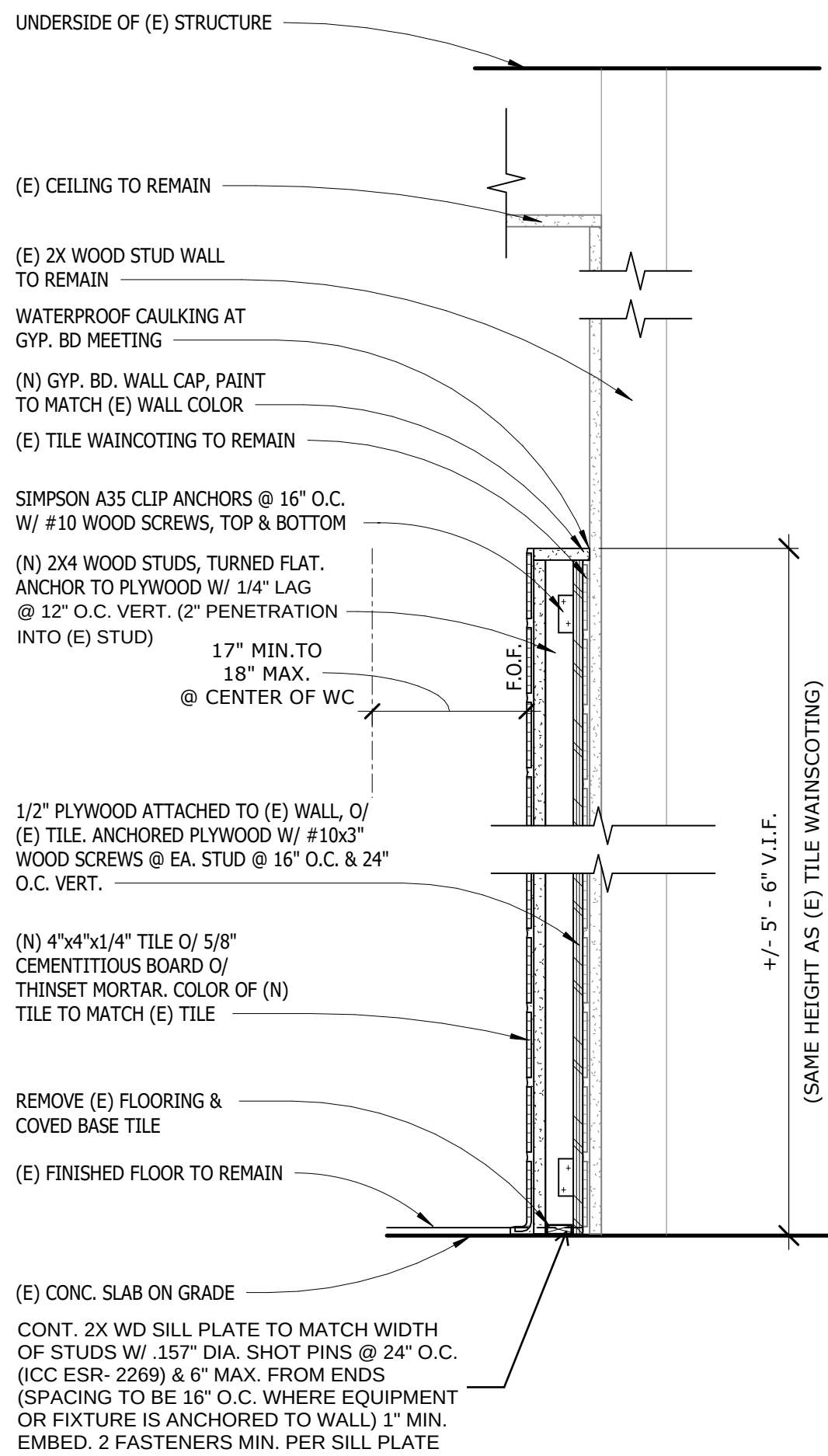


KEYNOTES

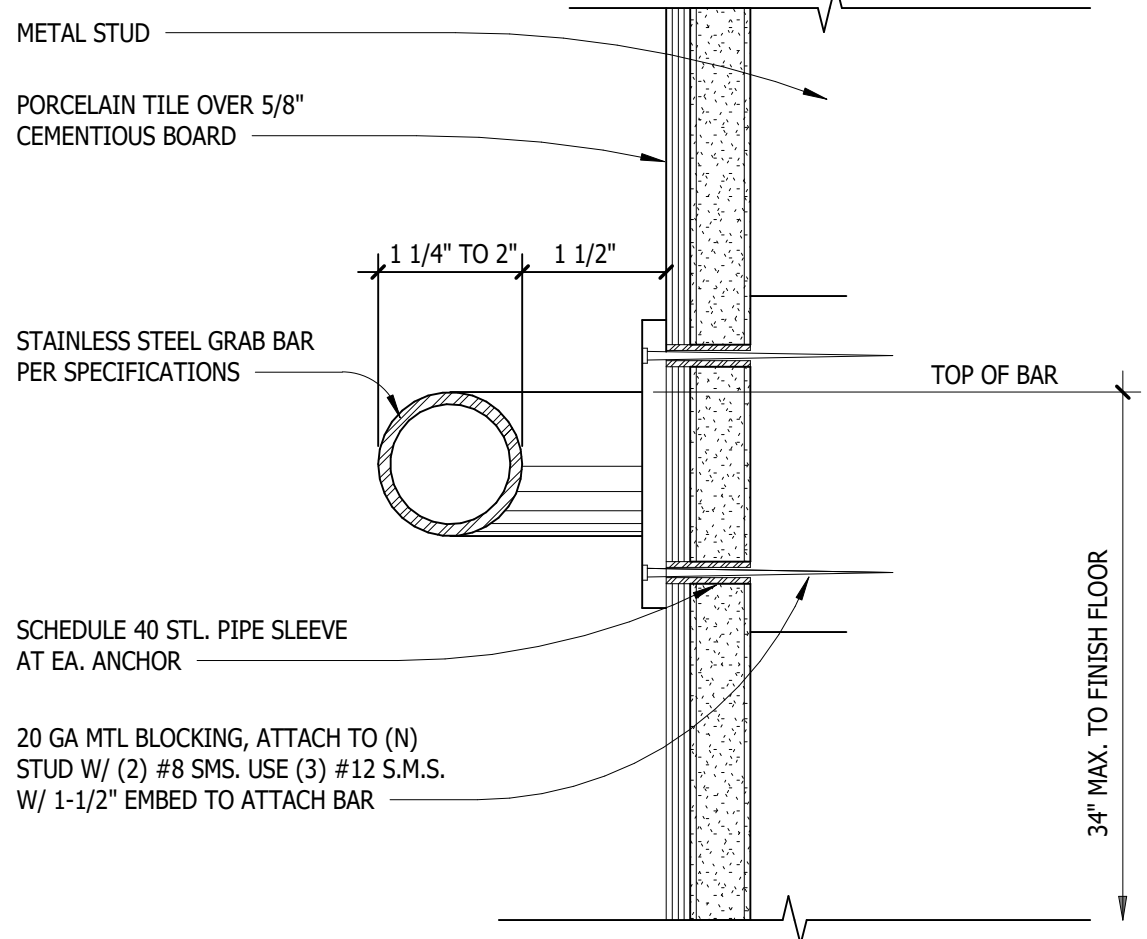




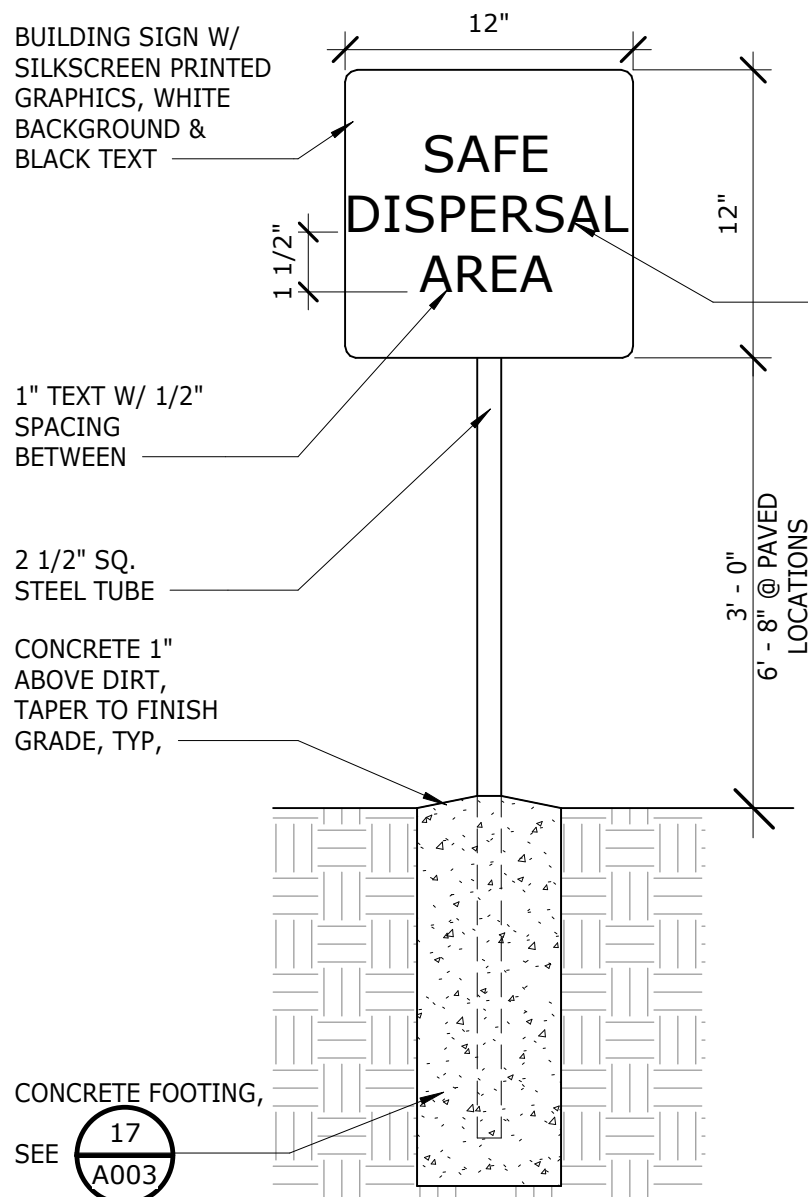
PLAY EQUIPMENT/SHADE STRUCTURE ELEVATION 1/4" = 1'-0" 12



(N) FURRED WALL @ (E) WALL 1 1/2" = 1'-0" 10



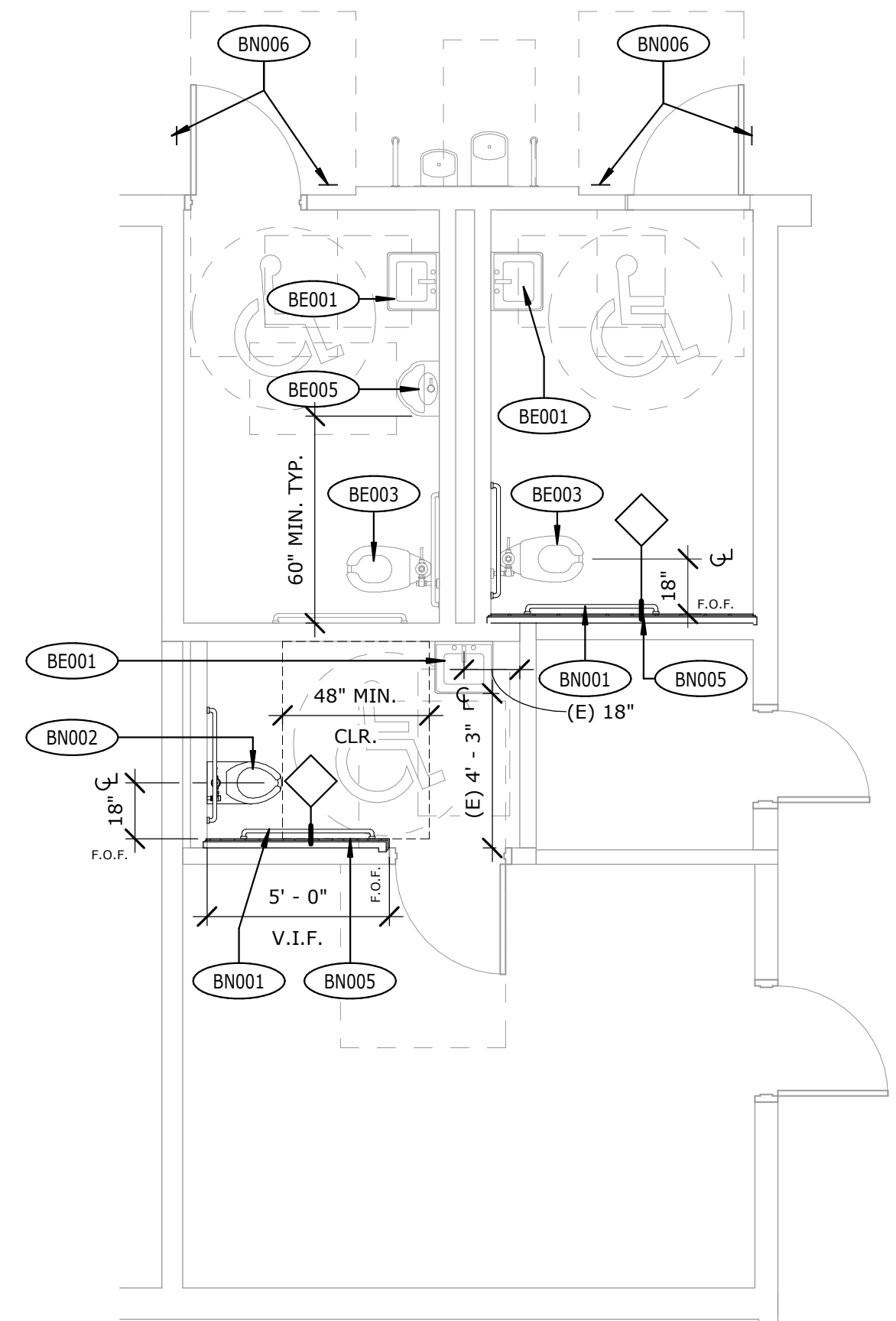
GRAB BAR AT METAL STUD 6" = 1'-0" 13



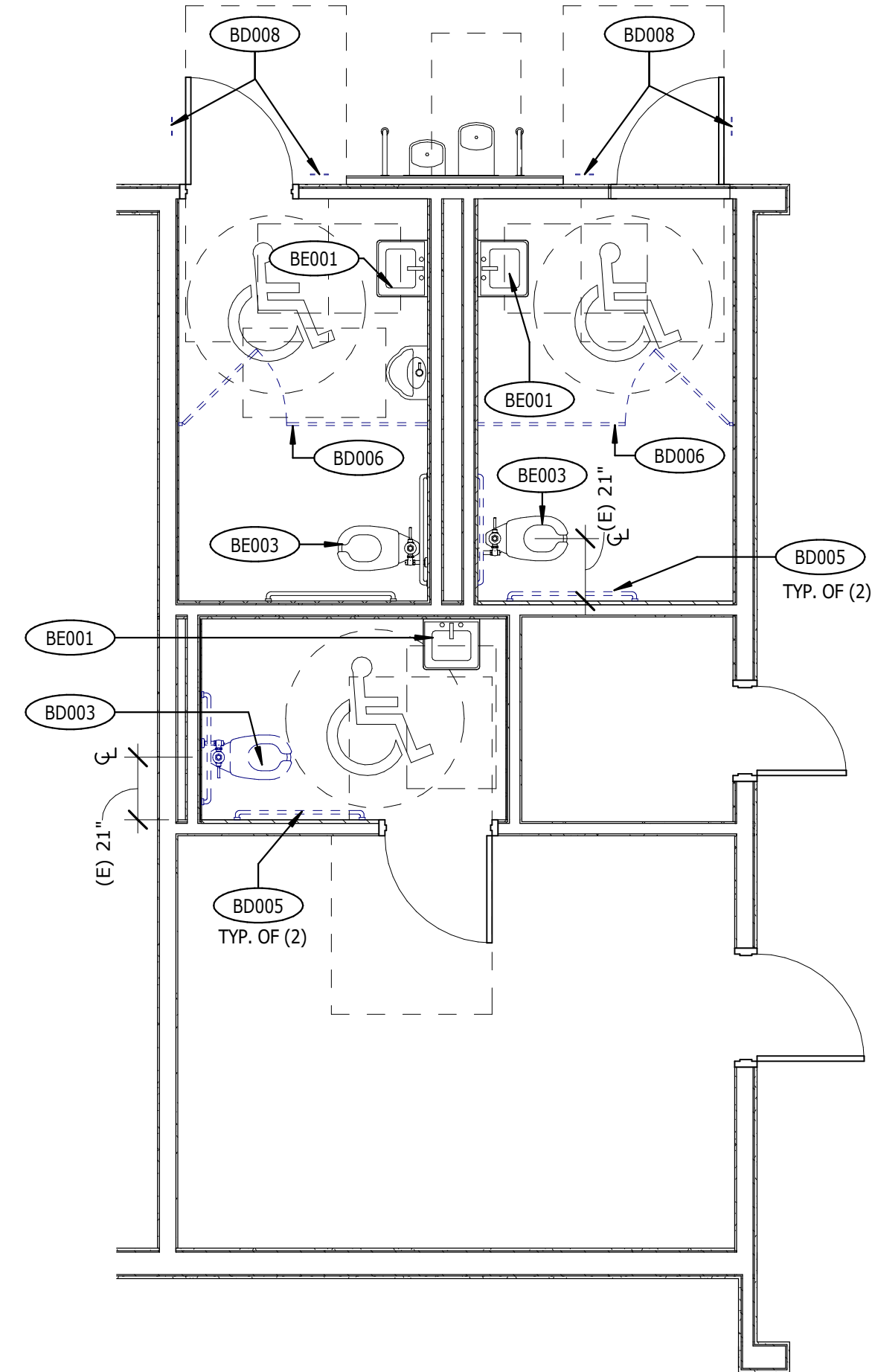
SAFE DISPERSAL SIGN 1 1/2" = 1'-0" 9

DESCRIPTION OF BUILDING ELEMENT	FINISHES AND TYPE OF FINISH	NOTES AND LOCATION
1. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
2. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
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56. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
57. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
58. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
59. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
60. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
61. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
62. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
63. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
64. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
65. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
66. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
67. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
68. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
69. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
70. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
71. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
72. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
73. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
74. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
75. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
76. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
77. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
78. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
79. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
80. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
81. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
82. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
83. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
84. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
85. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
86. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
87. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
88. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
89. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
90. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
91. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
92. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
93. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
94. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
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96. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
97. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
98. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
99. Interior wall, ceiling, and floor finish	Interior wall, ceiling, and floor finish	See Table 2304.10.2 for details.
100. Exterior wall, ceiling, and floor finish	Exterior wall, ceiling, and floor finish	See Table 2304.10.2 for details.

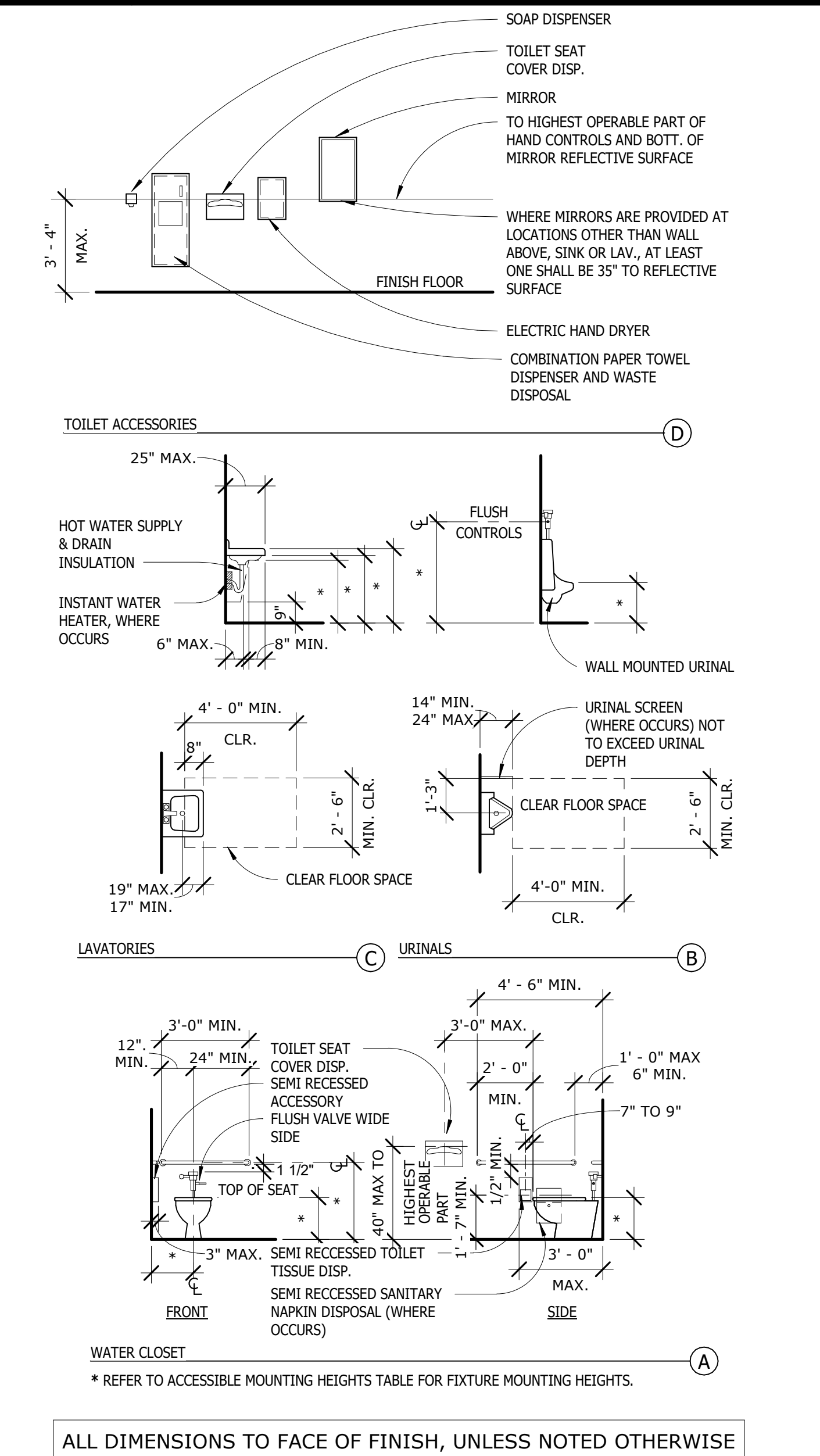
TABLE 2304.10.2 N.T.S. 7



BLDG. D RESTROOM PLAN - RENO 1/4" = 1'-0" 3



BLDG. D RESTROOM PLAN - DEMO 1/4" = 1'-0" 1



ACCESSIBILITY REQUIREMENTS

1. FOR TYPICAL SYMBOLS AND ABBREVIATIONS, SEE SHEET G001.
2. SEE REFLECTED CEILING PLAN FOR CEILING HEIGHTS AND FINISHES.
3. SEE FINISH SCHEDULE FOR ANY INTERIOR FINISHES NOT SHOWN IN ELEVATION.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL CABINET DIMENSIONS.
5. MILL WORK SUPPLIER SHALL ISSUE A WOODWORK INSTITUTE CERTIFIED COMPLIANCE CERTIFICATE WITH SHOP DRAWINGS AND STAMP ON EACH UNIT.
6. SEE DETAIL -/A860 FOR TYPICAL CASEWORK ANCHORAGE.
7. ALL CABINET LOCKS SHALL BE KEYS TO MATCH THE ROOM ENTRY DOOR.
8. PROVIDE SOLID BACKING INSIDE WALLS AS REQUIRED FOR THE SUPPORT OF CASEWORK, MARKER BOARDS, DISTRICT INSTALLED WINDOW COVERINGS, LIGHT FIXTURES, AND MISC. ELEC. AND MECH. EQUIPMENT AS OCCURS. SEE DETAIL -/A860 WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS.
9. FOR TYPICAL DIMENSIONS AND MOUNTING HEIGHTS OF ACCESSIBLE FIXTURES, ACCESSORIES, AND TYPICAL ACCESSIBILITY REQUIREMENTS SEE MOUNTING HEIGHTS TABLE AND ACCESSIBILITY REQUIREMENT LEGENDS THIS SHEET.

INTERIOR NOTES

	AGES 9 - 12	AGES 5 - 8	AGES 3 - 4
TOILET CENTERLINE FROM WALL	17"-18"	15"-18"	12"-15"
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	15"-17"	12"-15"
GRAB BAR HEIGHT (TO GRIPPING SURF.)	33"-36" T.O. GRAB BAR	25"-27"	20"-25"
TOILET PAPER IN FRONT OF TOILET	7" MIN. - 9" MAX.	7" MIN. - 9" MAX.	7" MIN. - 9" MAX.
TOILET PAPER HEIGHT FROM FLOOR	19" MIN.	17"-19"	14"-17"
DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	19" MIN.
APRON CLEARANCE	29" MIN.	24" MIN.	19" MIN.
URINAL LIP HEIGHT	17" MAX.	15" MAX.	13" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	37" MAX.	32" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	30" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.		

ACC. MOUNTING HEIGHTS TABLE

- 8B003 REMOVE (E) FLOOR MOUNTED TOILET IN ITS ENTIRETY
- 8B005 REMOVE (E) GRAB BARS IN THEIR ENTIRETY. PATCH, PAINT, & FINISH (E) WALL TO MATCH (E)
- 8B006 REMOVE (E) TOILET PARTITION IN ITS ENTIRETY. PATCH, PAINT, & FINISH (E) WALL & FLOOR TO MATCH (E)
- 8B008 REMOVE (E) ROOM ID AND DOOR SIGNAGE. PREPARE SURFACES FOR (N) SIGNAGE
- BE001 (E) LAVATORY TO REMAIN, PROTECT IN PLACE, TYP.
- BE003 (E) FLOOR MOUNTED WATER CLOSET TO REMAIN, PROTECT IN PLACE, TYP.
- BE005 (E) URINAL TO REMAIN, PROTECT IN PLACE, TYP.
- BN001 (N) ACCESSIBLE GRAB BARS & BLOCKING PER 13/A601
- BN002 (N) FLOOR MOUNTED TOILET TO BE INSTALLED W/ OFFSET FLANGE TO ACCOMMODATE TOILET CENTERING @ 18" FROM FACE OF FINISH. MODEL: KOHLER WELLCOME ULTRA K-96053 TOP SPUD FLUSHOMETER BOWL. SEAT HEIGHT TO BE 17" MIN. TO 19" MAX.
- BN005 (N) 2x4 WOOD STUD FURRED WALL. SEE 10/A601 FOR MORE INFORMATION
- BN006 (N) ALL GENDER RESTROOM DOOR AND ROOM ID SIGNAGE PER 5/A001. MOUNT SIGNAGE PER 7/A001

STATE:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123948 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/21/2024

ARCHITECT:
westbergwhite
7700 IRVINE CENTER DR., SUITE 100
IRVINE, CA 92618
(714) 508-1780 508-1790 FAX

LICENSED ARCHITECT
PAUL WHITE, WESTBERG
C-11045
EXP-9-2025
STATE OF CALIFORNIA

CONSULTANT:

PROJECT NAME:
(N) PLAYGROUND STRUCTURE
MITCHELL ELEMENTARY SCHOOL
14429 SOUTH CONDON AVENUE
LAWNDALE, CA 90260

CLIENT:
LAWNDALE SCHOOL DISTRICT
4161 W 147TH ST.
LAWNDALE, CA 90260

Rev. Date Description

JOB NO: 23026.01
DATE: 05/03/2024
DRAWN: TG
CHECK: GC/JG
ARCHITECT: PDW
ENGINEER:

SHEET DESCRIPTION:
ENLARGED PLANS AND
INTERIOR ELEVATIONS

SHEET NO:

A601

GENERAL NOTES:

1. ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:
- A. PROJECT SPECIFICATIONS.
- B. ALL SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
- C. LAWNDALE ELEMENTARY SCHOOL DISTRICT STANDARDS AND SPECIFICATIONS.
- D. CALIFORNIA BUILDING CODE, 2022.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- REMOVALS:
4. EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THESE CONSTRUCTION DOCUMENTS SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO AND COORDINATED WITH THE ARCHITECT/IO/OR/AR TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE IO/OR/AR IN WRITING PRIOR TO COMMENCING THE WORK.
5. ALL SITE PREPARATION AS INDICATED SHALL BE MADE UNDER THE CONTINUOUS INSPECTION OF THE INSPECTOR OF RECORD. SECURE THE REQUIRED PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES, SHORING OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER OR WORK THAT MAY JEOPARDIZE THE WORKERS. SHORING CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR APPROVAL AND PERMITTING.
6. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE CITY AND JURISDICTIONAL AGENCY.
7. ALL FILL OR BACKFILL SHALL BE COMPACTED 90% DENSITY PER ASTM D1557.
8. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND AND INCLUDED IN THE CONTRACT.
9. VOIDS RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE OWNER RETAINED GEOTECHNICAL ENGINEER AND COMPACTED TO 90% DENSITY PER ASTM D-1557.
10. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION FENCING, APPURTENANCES AND OFFICE TRAILERS FROM THE SITE. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT AND APPROVED BY THE INSPECTOR OF RECORD AS APPLICABLE.
11. ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.
12. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ENGINEER.
13. GRADE LAWN, TURF, AND PLANTING AREA 1-1/2" BELOW DESIGN GRADES INDICATED.
14. MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLAN AND REINSTALL THEM AFTER PAVING. REPLACE BENT OR UNSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.
15. IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE ROUGH GRADING SITE, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.
16. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
17. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
18. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.
19. A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
20. SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
21. IF GRADING AUTHORIZED BY THIS PLAN IS TO EXTEND THROUGH THE RAINY SEASON, OCTOBER 1 THROUGH APRIL 15 OF THE FOLLOWING YEAR, SEPARATE UPDATED PLANS FOR EROSION CONTROL MUST BE SUBMITTED PRIOR TO OCTOBER TO THE ARCHITECT/IO/AR FOR APPROVAL. CONTRACTOR TO PROVIDE STORM WATER PREVENTION PLAN, PRE-CONSTRUCTION AND POST CONSTRUCTION BMPs AND UPDATE FROM TIME TO TIME TO COMPLY WITH THE REQUIREMENTS.
22. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8' TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. WORK AREA AND STAGING AREA SHALL BE SECURE AT ALL TIMES.
23. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUND WATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.
24. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.

GEOTECHNICAL NOTES:

1. GENERAL CONSIDERATIONS
- ALL WORK MUST BE IN COMPLIANCE WITH THE RECOMMENDATIONS INCLUDED IN THE PROJECT SITE'S GEOTECHNICAL CONSULTANT'S REPORT.
- TITLE: REPORT OF GEOTECHNICAL INVESTIGATION.
- PROPOSED NEW 2-STORY CLASSROOM BUILDING - MITCHELL ELEMENTARY SCHOOL
- 14429 CONDON AVENUE, CITY OF LAWNDALE, CALIFORNIA
- PREPARED BY: ASSOCIATED SOILS ENGINEERING, INC.
- 2860 WALNUT AVENUE, SIGNAL HILL, CA- 90755
- PROJECT NO.: 7154.23
- DATE: DECEMBER 12, 2023
2. SITE PREPARATION:
- PRIOR TO GRADING OPERATIONS, IT IS NECESSARY TO REMOVE DESIGNATED EXISTING CONSTRUCTION, INCLUDING ANY REMAINING BURIED OBSTRUCTIONS, WHICH MAY BE IN THE AREAS OF THE BUILDING. STRUCTURE REMOVAL SHALL INCLUDE FOUNDATIONS. CONCRETE FLATWORK AND AC PAVEMENTS SHALL ALSO BE REMOVED FROM THE AREAS OF PROPOSED CONSTRUCTION. CONCRETE AND ASPHALT FRAGMENTS FROM SITE DEMOLITION OPERATIONS SHALL BE DISPOSED OF OFF-SITE, UNLESS THEY CAN BE STOCKPILED AND PROCESSED TO MEET THE SPECIFICATIONS FOR CRUSHED MISCELLANEOUS BASE ("CMB"), PROCESSED MISCELLANEOUS BASE ("PMB") OR PULVERIZED MISCELLANEOUS BASE ("PMB") AS OUTLINED IN SECTIONS 200-2.4, 200-2.5 OR 200-2.6, RESPECTIVELY. OF THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (THE GREENBOOK) AND REUSED AS APPROVED FILL OR BASE MATERIAL.
- ANY UNDERGROUND UTILITIES TO BE ABANDONED WITHIN THE ZONE OF PROPOSED CONSTRUCTION SHALL BE CUT OFF A MINIMUM OF FIVE (5) FEET FROM THE AREA OF THE NEW STRUCTURES. THE ENDS OF CUT-OFF LINES SHALL BE PLUGGED A MINIMUM OF FIVE (5) FEET WITH CONCRETE EXHIBITING MINIMUM SHRINKAGE CHARACTERISTICS TO PREVENT WATER MIGRATION TO OR FROM HOLLOW LINES.
3. SITE GRADING:
- UNDOCUMENTED FILL / DISTURBED NATIVE SOILS:
- ANY UNDOCUMENTED FILL SOIL ENCOUNTERED DURING SITE GRADING IN THE AREAS OF THE BUILDING, AS WELL AS ANY NATIVE SOILS DISTURBED DURING DEMOLITION AND CLEARING OPERATIONS, SHALL BE EXCAVATED FULL DEPTH UNDER THE OBSERVATION AND CONFIRMATION BY THE GEOTECHNICAL CONSULTANT. WHERE EXTENT OF OVEREXCAVATION BEYOND THE PERIMETERS OF THE BUILDING, WHERE POSSIBLE, SHALL BE TO A MINIMUM DISTANCE EQUAL TO THE DEPTH OF UNDOCUMENTED FILL/DISTURBED SOIL ENCOUNTERED OR THREE (3) FEET, WHICHEVER IS GREATER.

FOR OTHER SECONDARY IMPROVEMENTS SUCH AS FREE-STANDING WALLS OR HARDSCAPE, THE LATERAL EXTENT OF UNDOCUMENTED FILL SHALL BE TO A MINIMUM DISTANCE EQUAL TO THE DEPTH OF UNDOCUMENTED FILL/DISTURBED SOILS ENCOUNTERED OR TWO (2) FEET, WHICHEVER IS GREATER.

THE EXPOSED EXCAVATION BOTTOM SHALL BE SCARIFIED/REWORKED TO A MINIMUM ONE (1) FOOT DEPTH AND RECOMPACTED TO A MINIMUM 95 PERCENT RELATIVE COMPACTION WITH A MINIMUM MOISTURE CONTENT OF TWO (2) PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT, PRIOR TO BACKFILLING WITH APPROVED SOILS AS SPECIFIED IN SECTION 6.2.7.

EXPANSIVE SOILS:

LABORATORY TESTING RESULT ON NEAR SURFACE SOIL SAMPLES INDICATE A "VERY LOW" SOIL EXPANSION POTENTIAL (I.E. EXPANSION INDICES, E₁S = 0 AND 9 PER ASTM D4829-19 TEST METHOD) AS DEFINED IN TABLE 1 OF ASTM D4829-19 TEST METHOD AND SECTION 1803.5.3 OF 2022 CBC, AS SUCH, NO ADVERSE IMPACT ARISING FROM UNDESIRABLE SOIL EXPANSION IS ANTICIPATED AT THE SITE. NONETHELESS, IT MAY BE DESIRABLE THAT THE SOIL EXPANSION POTENTIAL BE RE-EVALUATED THROUGH ADDITIONAL TESTING DURING OR AFTER ROUGH GRADING OPERATIONS TO VERIFY THE DESIGN ADEQUACY OF FOUNDATION OR SLAB-ON-GRADE AGAINST THE RE-TESTED SOIL EXPANSION POTENTIAL AS HETEROGENEITY WITHIN SOIL MASS IS NOT UNCOMMON. BASED ON AS'S PAST EXPERIENCE ON PROJECTS LOCATED IN THE SITE VICINITY, THE POSSIBILITY OF ENCOUNTERING SOILS WITH "LOW" TO "HIGH" EXPANSION POTENTIAL DURING SITE GRADING COULD NOT BE TOTALLY RULED OUT.

REMEDIAL GRADING:

IT IS RECOMMENDED THAT ON-SITE SOILS WITHIN THE FOOTPRINT OF THE BUILDING BE OVEREXCAVATED AND REMOVED UNIFORMLY TO A MINIMUM DEPTH OF FIVE (5) FEET BELOW EXISTING GRADE OR FINISH GRADE OR THREE (3) FEET BELOW THE LOWEST FOOTING BOTTOM, WHICHEVER IS LOWER, AND REPLACED WITH PROPERLY COMPACTED FILL SUCH THAT THE BUILDING FOUNDATION IS SUPPORTED ON A RE-ENGINEERED, COMPACTED FILL LAYER. THE FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION WITH A MINIMUM MOISTURE CONTENT OF TWO (2) PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT. THE EXCAVATION BOTTOM SHALL BE NEAR UNIFORM. THE OVEREXCAVATION SHALL EXTEND Laterally TO A MINIMUM DISTANCE OF FIVE (5) FEET BEYOND THE BUILDING PERIMETERS, WHEREVER POSSIBLE.

THE COMPACTED FILL UNDERLYING THE BUILDING FOUNDATION SHALL CONSIST OF "VERY LOW" EXPANSIVE, GRANULAR MATERIAL (E₁ ≤ 20). ADDITIONAL TESTING SHALL BE PERFORMED TO VERIFY THE E₁S OF EXCAVATED SITE SOILS. PRIOR TO PLACEMENT OF COMPACTED FILL, THE UPPER SIX (6) INCHES OF EXPOSED NATIVE SUBGRADE SHALL BE REWORKED TO AT LEAST 90 PERCENT RELATIVE COMPACTION WITH A MINIMUM MOISTURE OF TWO (2) PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT.

IN CASE OF THE PRESENCE OF LOCALIZED LOOSE SOILS, THE OVEREXCAVATION NEEDS TO BE DEEPEENED ACCORDINGLY TO DELETE THE LOOSE SOIL CONDITION. HOWEVER, THIS DEEPEENED OVEREXCAVATION MAY BE TERMINATED WHEN THE EXPOSED NATIVE, UNDISTURBED SOILS EXHIBIT A NATURAL RELATIVE COMPACTION GREATER THAN 85 PERCENT, SUBJECT TO THE TESTING AND INSPECTION BY THE REPRESENTATIVE FROM THE GEOTECHNICAL CONSULTANT.

THE GEOTECHNICAL CONSULTANT SHALL BE PROVIDED WITH APPROPRIATE CONSTRUCTION DETAILS AND STAKING DURING GRADING TO VERIFY THAT DEPTHS AND/OR LOCATIONS OF THE RECOMMENDED OVEREXCAVATION ARE ADEQUATE.

THE DEPTH OF OVEREXCAVATION SHALL BE REVIEWED BY THE GEOTECHNICAL CONSULTANT DURING THE ACTUAL CONSTRUCTION. ANY SUBSURFACE OBSTRUCTION, BURIED STRUCTURAL ELEMENTS, AND UNSUITABLE MATERIAL ENCOUNTERED DURING GRADING, SHALL BE BROUGHT TO THE ATTENTION OF THE GEOTECHNICAL CONSULTANT FOR PROPER EXPOSURE, REMOVAL AND PROCESSING, AS RECOMMENDED.

PUMPING AND HEAVING OF SUBGRADE SOILS:

IF EXCAVATED SITE SOILS ARE HIGHLY MOIST OR WET AT THE TIME OF SITE GRADING, THE EXCAVATED SOILS SHALL BE EVENLY SPREAD AND LEFT AERATED FOR A PERIOD OF TIME TO REDUCE THE MOISTURE CONTENT PRIOR TO BEING RE-USED.

WHEN PUMPING AND HEAVING CONDITIONS ARE OBSERVED WITH SOILS EXPOSED AT THE OVEREXCAVATION BOTTOM, IT WILL BE NECESSARY TO DEEPEN THE OVEREXCAVATION WITHIN THE AREA OF OBSERVED PUMPING AND HEAVING AN ADDITIONAL 12 TO 18 INCHES, UNDER THE OBSERVATION AND EVALUATION OF THE GEOTECHNICAL CONSULTANT'S REPRESENTATIVE. THE AREA OF THE DEEPEENED OVEREXCAVATION SHALL SUBSEQUENTLY BE BACKFILLED WITH 3/4" TO 1" OPEN-GRADED CRUSHED ROCKS COMPLYING WITH THE CRITERIA OF SECTION 200-1.2 OF THE CURRENT GREENBOOK AND RAMMED TIGHTLY TO FORM A STIFFENED PLATFORM TO FACILITATE THE ENSUING FILL PLACEMENT AND COMPACTION. THE CRUSHED ROCK LAYER SHALL BE UNDERLAIN AND OVERLAIN BY A LAYER OF FILTERING GEOFABRIC (SUCH AS MIRAF1 140N OR EQUIVALENT) PRIOR TO AND SUBSEQUENT TO THE PLACEMENT OF CRUSHED ROCKS, RESPECTIVELY.

TEMPORARY EXCAVATION:

EXCAVATIONS OF SITE SOILS 4 FEET OR DEEPER SHALL BE TEMPORARILY SHORED OR SLOPED IN ACCORDANCE WITH THE CURRENT CAL OSHA REQUIREMENTS IN AREAS WHERE EXCAVATIONS DEEPER THAN 4 FEET ARE NOT ADJACENT TO EXISTING STRUCTURES OR PUBLIC RIGHT-OF-WAYS. SLOPING PROCEDURES MAY BE UTILIZED FOR TEMPORARY EXCAVATIONS. IT IS RECOMMENDED THAT TEMPORARY SLOPES IN BOTH FILL AND NATIVE SOILS BE GRADED NO STEEPER THAN 1.5:1 (H:V) FOR EXCAVATIONS UP TO 10 FEET IN DEPTH. THE ABOVE TEMPORARY SLOPE CRITERIA IS BASED ON LEVEL SOILS CONDITIONS BEHIND TEMPORARY SLOPES WITH NO SURCHARGE LOADING (STRUCTURES, TRAFFIC) WITHIN A LATERAL DISTANCE BEHIND THE TOP OF SLOPE EQUIVALENT TO THE SLOPE HEIGHT.

IT IS RECOMMENDED THAT EXCAVATED SOILS BE PLACED A MINIMUM LATERAL DISTANCE FROM TOP OF SLOPE EQUAL TO THE HEIGHT OF SLOPE. A MINIMUM SETBACK DISTANCE EQUIVALENT TO THE SLOPE HEIGHT SHOULD BE MAINTAINED BETWEEN THE TOP OF SLOPE AND HEAVY EXCAVATION/GRADING EQUIPMENT. SOIL CONDITIONS SHOULD BE REVIEWED BY THE GEOTECHNICAL CONSULTANT AS EXCAVATION PROGRESSES TO VERIFY ACCEPTABILITY OF TEMPORARY SLOPES.

TEMPORARY SHORING IS REQUIRED FOR THOSE EXCAVATIONS WHERE TEMPORARY SLOPING IS NOT FEASIBLE.

GEOTECHNICAL NOTES (CONT'N.):

EXTERIOR SLAB-ON-GRADE/ FLATWORK/ PAVEMENT/ HARDSCAPE SUPPORT:

IT IS RECOMMENDED THAT SUBGRADE SOILS TO A MINIMUM DEPTH OF TWO (2) FEET BELOW THE BOTTOM OF AND TWO (2) FEET Laterally BEYOND THE FOOTPRINT OF EXTERIOR CONCRETE SLAB-ON-GRADE/CONCRETE FLATWORK/HARDSCAPE/ PAVEMENT SHALL BE OVEREXCAVATED THEN BACKFILLED AND RECOMPACTED WITH SUITABLE FILL SOILS CONSISTING OF "VERY LOW" EXPANSIVE SITE OR IMPORT MATERIAL (E₁ ≤ 20), COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION WITH A MINIMUM MOISTURE CONTENT OF ONE (1) PERCENTAGE POINT ABOVE OPTIMUM MOISTURE CONTENT. PRIOR TO PLACEMENT OF COMPACTED FILL, THE UPPER SIX (6) INCHES OF EXPOSED NATIVE SUBGRADE SHOULD BE REWORKED TO AT LEAST 90 PERCENT RELATIVE COMPACTION WITH A MINIMUM MOISTURE OF TWO (2) PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT.

BACKFILLING AND COMPACTION REQUIREMENTS:

EXISTING SITE SOILS AT THEIR PRESENT STATE AND COMPOSITION, UNLESS INDICATED OTHERWISE, ARE CONSIDERED SUITABLE FOR RE-USE AS FILL DURING SITE GRADING, PROVIDED THEY 1) FREE OF DEBRIS, PARTICLES GREATER THAN 4 INCHES IN MAXIMUM DIMENSION, ORGANIC MATTER OR OTHER DELETERIOUS MATERIALS, 2) ARE NOT ENVIRONMENTALLY CONTAMINATED, AND 3) ADEQUATELY MOISTURE CONDITIONED TO PERMIT ACHIEVING THE REQUIRED COMPACTION. NO NESTING OF LARGE PARTICLES (2 TO 4-INCH SIZE) SHOULD BE PERMITTED DURING BACKFILLING OPERATIONS.

ON-SITE SOILS AND IMPORT MATERIALS APPROVED FOR USE AS FILL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS, MOISTURE CONDITIONED TO A MINIMUM OF TWO (2) PERCENTAGE

POINTS ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM 90 PERCENT RELATIVE COMPACTION.

UNLESS OTHERWISE STATED, THE MEASUREMENT OF RELATIVE COMPACTION IN THIS REPORT SHALL ALWAYS REFER TO ASTM D1557-12 TEST METHOD.

4. ASPHALTIC CONCRETE (AC) FLEXURAL PAVEMENT DESIGN:

THE AGGREGATE BASE SHALL CONFORM TO THE REQUIREMENTS OF CRUSHED AGGREGATE BASE (CAB) OR CRUSHED MISCELLANEOUS BASE (CMB) PER SECTIONS 200-2.2 AND 200-2.4 OF THE CURRENT GREENBOOK, RESPECTIVELY. THE BASE COURSE SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% AT A MINIMUM OF ONE (1) PERCENTAGE POINT ABOVE THE OPTIMUM MOISTURE CONTENT. FIELD TESTING SHALL BE USED TO VERIFY COMPACTION, AGGREGATE GRADATION, AND COMPACTED THICKNESS.

THE ASPHALT CONCRETE PAVEMENT SHALL BE COMPACTED TO 95% OF THE UNIT WEIGHT AS TESTED IN ACCORDANCE WITH THE HVEEM PROCEDURE PER THE LATEST CALIFORNIA TEST METHOD (CTM) 304. THE ASPHALT CONCRETE MATERIAL SHALL CONFORM TO THE CRITERIA OF TYPE III, CLASS C2 OR C3, PER SECTION 208.6.5 OF THE CURRENT GREENBOOK. ALL SUBGRADE AND AGGREGATE BASE MATERIALS SHOULD BE PROOF-ROLLED BY HEAVY RUBBER TIRE EQUIPMENT TO VERIFY THAT THE SUBGRADE AND BASE GRADE ARE IN A NON-YIELDING CONDITION.

5. PORTLAND CEMENT CONCRETE (PCC) PAVEMENTS

THE CONCRETE PAVEMENT SECTIONS ARE BASED ON LOAD SAFETY FACTORS OF 1.0 AND 1.1, AND A MODULUS OF SUBGRADE REACTION ("K" VALUE) OF 90 PCI FOR SITE SOILS COMPACTED AS SUBGRADE MATERIAL, AND THE DESIGN PROCEDURES PRESENTED IN THE PORTLAND CEMENT ASSOCIATION BULLETIN "THICKNESS DESIGN FOR CONCRETE HIGHWAY AND STREET PAVEMENTS" (EB109.01P), 1984. A DESIGN SERVICE LIFE OF 20 YEARS WAS ASSUMED FOR THE DESIGN OF THE PORTLAND CEMENT CONCRETE PAVEMENT SECTION.

EDGES OF CONCRETE PAVEMENTS WHICH ARE NOT ADJACENT TO EXISTING BUILDINGS, OR ARE ADJACENT TO PLANTER AREAS, BE DOWNTURNED A MINIMUM OF 12 INCHES OR BE CONSTRUCTED WITH CURBING TO PREVENT WATER INFILTRATION TO SUBGRADE SOILS. IF EDGES ARE DOWNTURNED OR CURBING IS CONSTRUCTED, THE ABOVE PAVEMENT THICKNESSES SHOULD BE DECREASED BY 1/2 INCH.

THE UPPER ONE (1) FOOT OF EXPOSED SUBGRADE SOILS BENEATH CONCRETE PAVEMENTS SHALL BE FURTHER COMPACTED TO A MINIMUM 95 PERCENT RELATIVE COMPACTION WITH A MINIMUM MOISTURE CONTENT OF TWO (2) PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT. SUBGRADE SOILS SHALL EXHIBIT A FIRM, UNYIELDING SURFACE IN ADDITION TO THE RECOMMENDED COMPACTION. FINAL COMPACTION AND TESTING OF PAVEMENT SUBGRADE SHALL BE PERFORMED JUST PRIOR TO PLACEMENT OF AGGREGATE BASE AND/OR CONCRETE. THE PERTINENT SUBGRADE PREPARATION MEASURES STIPULATED IN THE "THICKNESS DESIGN FOR CONCRETE HIGHWAY AND STREET PAVEMENTS" (EB109.01P), 1984, OR REQUIRED BY THE JURISDICTIONAL MUNICIPAL AUTHORITIES SHOULD BE FOLLOWED ACCORDINGLY.

6. SITE DRAINAGE

PER SECTION 1804A.4 OF 2022 CBC, A MINIMUM 5% DESCENDING GRADIENT AWAY FROM THE BUILDING FOR A MINIMUM DISTANCE OF 10 FEET SHALL BE INCORPORATED FOR EARTH GRADE PLACED ADJACENT TO THE FOUNDATION. THIS DESCENDING GRADIENT MAY BE REDUCED TO 2% FOR ANY IMPERVIOUS AREAS, SUCH AS CONCRETE PAVED WALKWAYS, WITHIN THE 10- FOOT ZONE. FOR AREAS WHERE THE 10-FOOT DRAINAGE DISTANCE IS NOT ATTAINABLE, ALTERNATIVE MEASURE SUCH AS CONCRETE-LINED SWALES HAVING A MINIMUM 2% GRADIENT MAY BE ADOPTED TO DIVERT THE WATER AWAY FROM THE BUILDING, PROVIDED THAT A MINIMUM 5% GRADIENT IS MAINTAINED IN THE DISTANCE BETWEEN THE BUILDING FOOTPRINT AND THE DIVERSION MEASURE SUCH AS SWALES. FOR MORE SPECIFIC SITE DRAINAGE GUIDELINES, THE PROJECT CIVIL CONSULTANT SHOULD REFER TO THE PERTINENT SECTIONS IN 2022 CBC.

ANY PLANTER AREAS TO BE PLACED ADJACENT TO STRUCTURE PERIMETERS SHALL BE PROVIDED WITH IMPERVIOUS BOTTOMS AND A DRAINAGE PIPE, OR SHALL BE PLANTED WITH DROUGHT-TOLERANT PLANTS, TO DIVERT WATER AWAY OR MINIMIZE MOISTURE INFILTRATION FROM FOUNDATION AND SLAB SUBGRADE SOILS. EXCESSIVE MOISTURE VARIATIONS IN SITE SOILS COULD RESULT IN SIGNIFICANT VOLUME CHANGES AND MOVEMENT.

6. SOIL CORROSIVITY EVALUATION:

CONCRETE CORROSION:

DISINTEGRATION OF CONCRETE MAY BE ATTRIBUTED TO THE CHEMICAL REACTION OF SOILS SULFATES AND HYDRATED LIME AND CALCIUM ALUMINATE WITH THE CEMENT. THE SEVERITY OF THE REACTION RESULTING IN EXPANSION AND DISRUPTION OF THE CEMENT IS PRIMARILY A FUNCTION OF THE CONCENTRATION OF SOLUBLE SULFATES AND THE WATER-CEMENT RATIO OF THE CONCRETE.

A SOLUBLE SULFATE CONTENT OF 0.025% BY WEIGHT HAS BEEN RECORDED FROM TESTING PER CALIFORNIA TEST METHOD (CTM) 417 CONDUCTED ON ON-SITE SOILS. AS PER TABLE 19.3.1.1 OF ACI 318-19, SOILS EXHIBITING SOLUBLE CONTENT LESS THAN 0.1% BY WEIGHT ARE CLASSIFIED AS HAVING "S0" SULFATE EXPOSURE CATEGORY. AS SUCH, FOR STRUCTURAL FEATURES TO BE IN DIRECT CONTACT WITH ON-SITE SOILS, THE SPECIAL GEOTECHNICAL REQUIREMENTS ON THE TYPE OF PORTLAND CEMENT OR WATER CEMENT RATIO CORRESPONDING TO THE TESTED "S0" SULFATE EXPOSURE CATEGORY AS PER STIPULATED IN TABLE 19.3.2.1 OF ACI 318-19 SHHALL BE CONSIDERED.

SHEET INDEX:

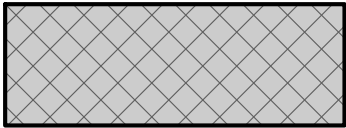
SHEET NO.	SHEET TITLE
C-1.0	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
C-1.1	EXISTING CONDITIONS
CD-1.0	SITE DEMOLITION PLAN
C-2.0	SITE CONTROL PLAN
C-3.0	SITE GRADING PLAN
C-3.1	SITE GRADING SECTIONS
C-4.0	MISCELLANEOUS DETAILS
C-5.0	EROSION CONTROL PLAN
C-5.1	EROSION DETAILS
C-6.0	OVEREXCAVATION PLAN

ABBREVIATIONS:

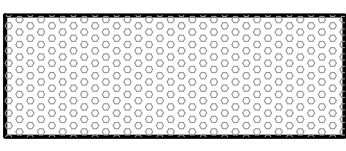
AC	ASPHALT	EG	EDGE OF GUTTER	PP	POWER POLE
APRN	APRON OF DRIVEWAY	ELEC	ELECTRICAL	RDRAIN	ROOF DRAIN
BFP	BACK FLOW PREVENTER	EP	EDGE OF PAVEMENT	RS	RED STRIPE
BLD	BUILDING	EPB	ELECTRICAL PULLBOX	SCO	SEWER CLEANOUT
BRAMP	BOTTOM OF RAMP	EPIPE	ELECTRICAL PIPE	SDMH	STORM DRAIN MANHOLE
BS	BLUE STRIPE	EPNL	ELECTRICAL PANEL	SLPB	STREET LIGHT PULLBOX
BSW	BACK OF WALK	FDC	FIRE DEPARTMENT CONTROL	SMH	SEWER MANHOLE
BWAL	BOTTOM OF WALL	FF	FINISHED FLOOR	SPB	SEWER PULLBOX
BX	BOTTOM OF CURB AT X	FH	FIRE HYDRANT	TC	TOP O CURB
CB	CATCH BASIN	FL	FLOWLINE	TH	THRESHOLD
CC OR CONC	CONCRETE	GB	GRADE BREAK	TRANSFRM	TRANSFORMER
CDRAIN	CURB DRAIN	GM	GAS METER	TRAMP	TOP OF RAMP
CLF	CHAIN LINK FENCE	GRD	GROUND	TSPB	TRAFFIC SIGNAL PULLBOX
CO	CLEANOUT	ICV	IRRIGATION CONTROL VALVE	TTS	TOP OF STEP
COMMPB	COMMUNICATION PULLBOX	INV	INVERT	TWAL	TOP OF WALL
CPB	CABLE PULLBOX	IPB	IRRIGATION PULLBOX	TX	TOP OF CURB AT X
CSLAB	CONCRETE SLAB	LP	LIGHT POLE	WIF	WROUGHT IRON FENCE
DF	DRINKING FOUNTAIN	MH	MANHOLE	WM	WATER METER
DI	DROP INLET	MOW	MOWSTRIP	WS	WHITE STRIPE
DS	DOWNSPOUT	PA	PLANTER AREA	WV	WATER VALVE
EC	EDGE OF CONCRETE	PB	PULLBOX	YS	YELLOW STRIPE

LEGENDS:

 3" THICK AC SURFACING OVER 7.5" THICK CRUSHED AGGREGATE BASE (CAB). REFER TO DETAIL 1 ON SHEET C-4.0.

 6" THICK AC SURFACING OVER 6.5" THICK CRUSHED AGGREGATE BASE (CAB). REFER TO DETAIL 1 ON SHEET C-4.0.

 5.5" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 2 ON SHEET C-4.0.

 INSTALL NEW DETECTABLE WARNING SURFACE PER DETAIL 7 ON SHEET C-4.0.

 LIMIT OF WORK

AIR CONDITIONER
BASKET BOARD
BUILDING
CAR STOP
CHAIN LINK FENCE
COLUMN
CONCRETE
DRAINAGE INLET
DRAINAGE INLET
DOWNSPOUT
ELECTRICAL
ELECTRICAL PANEL
ELECTRICAL PULLBOX
FIRE DEPARTMENT CONTROL
FIRE HYDRANT
GAS METER
GAS VALVE
GUIDE WIRE
IRRIGATION CONTROL VALVE
IRRIGATION PULLBOX
LIGHT POLE
LIGHT POLE
PALM
POST
POWER POLE
STREET LIGHT PULLBOX
RAIL
SEWER MANHOLE
SEWER PULLBOX
SIGN
STORM DRAIN MANHOLE
SURVEY CONTROL POINT
TRAFFIC SIGNAL PULLBOX
TREE
TRUNCATED DOME PAD
VALVE
VAULT
WALL
WATER PULLBOX
WATER METER
WATER VALVE
WOODEN OR WROUGHT IRON FENCE

A/C

B

CL

CLF

CO

COMMPB

CPB

CS

DF

DI

DS

EC

EG

ELEC

EP

EPB

EPIPE

EPNL

FDC

FF

FH

FL

GB

GM

GRD

ICV

INV

IPB

LP

MH

MOW

PA

PB

PULLBOX

PP

RDRAIN

RS

SCO

SDMH

SLPB

SMH

SPB

TC

TH

TRANSFRM

TRAMP

TSPB

TTS

TWAL

TX

WIF

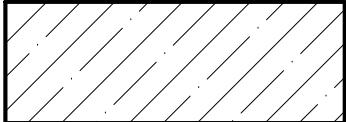
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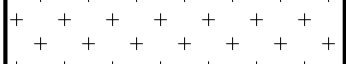
WS

WV

YS

REMOVAL LEGENDS:

 REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.

 REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.

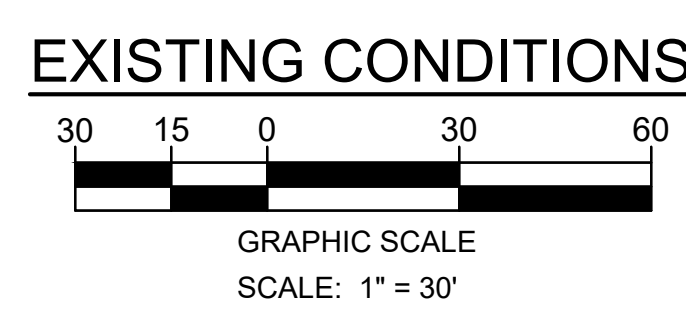
 LIMIT OF REMOVAL

TEL/COMM
ELECTRICAL
TRAFFIC SIGNAL
SITE LIGHT
WATER
SEWER
STORM DRAIN
GAS
POSSIBLE LINE LOCATION (UNK)
BACKFLOW
OFFSET FROM REFERENCE
DEPTH FROM SURFACE
FIRE HYDRANT
METER/PULL BOX
SITE LIGHT
STREET LIGHT
VAULT
VALVE

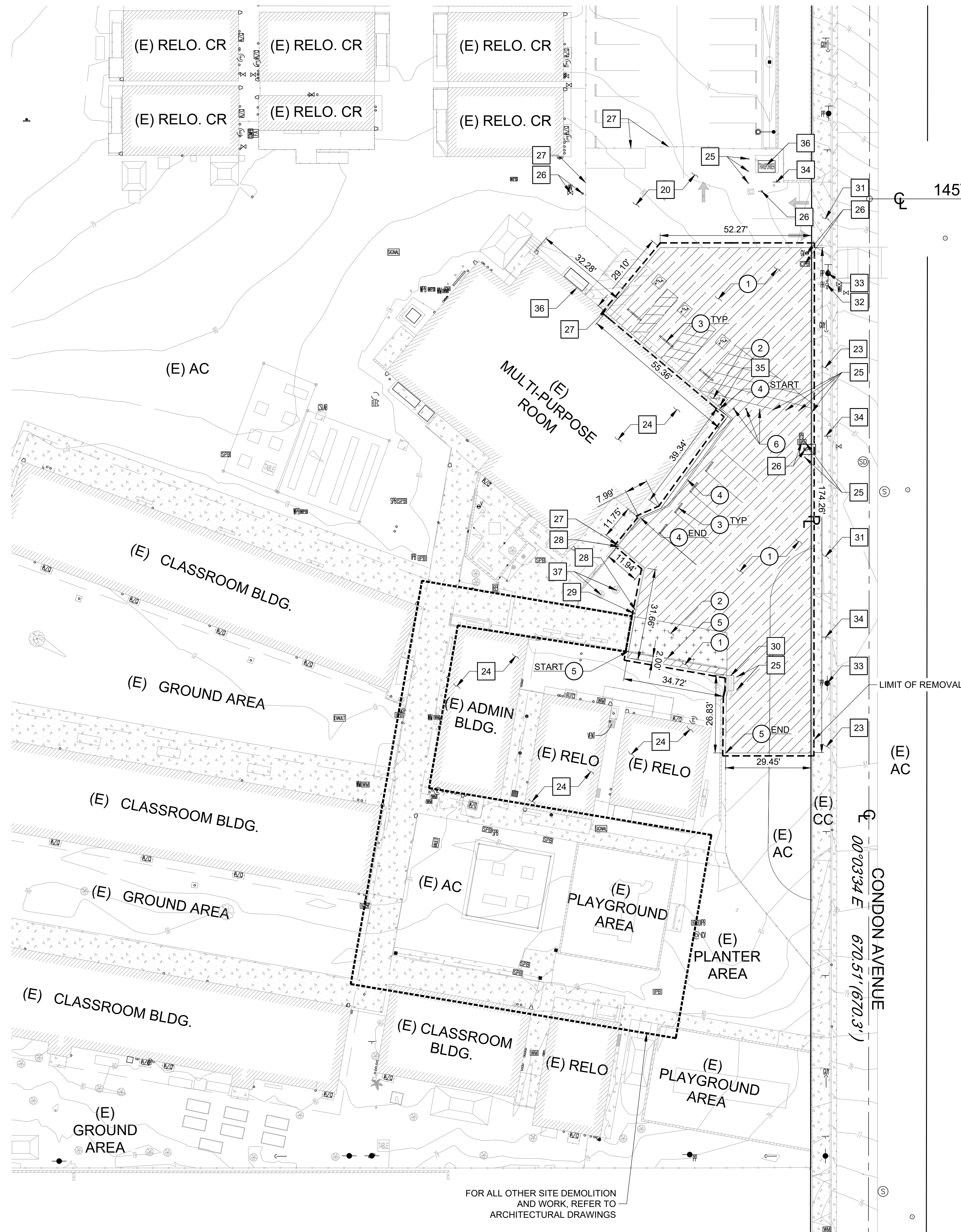
TEL

E

TS



C-1.1



REMOVAL NOTES:

- 1 REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- 2 REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- 3 SALVAGE EXISTING WHEEL STOP AND REINSTALL AFTER SLURRY COAT.
- 4 REMOVE EXISTING CONCRETE CURB IN ITS ENTIRETY.
- 5 TEMPORARILY REMOVE EXISTING CHAINLINK FENCE FABRIC AND PROTECT CHAIN LINK POST. REINSTALL TO NEW DESIGN GRADE AFTER ESTABLISHING THE FINISH SURFACE.
- 6 REMOVE EXISTING BOLLARD.

REMOVAL LEGEND:

- REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- LIMIT OF REMOVAL

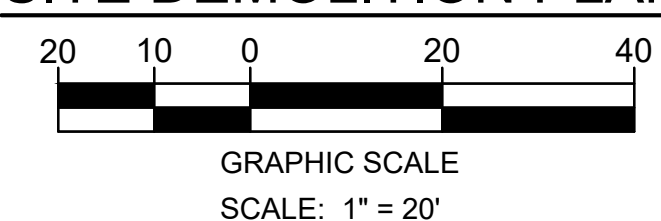
PROTECT-IN-PLACE NOTES:

- 20 PROTECT IN PLACE EXISTING ASPHALT IN ITS ENTIRETY.
- 23 PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
- 24 PROTECT IN PLACE EXISTING BUILDING, FOOTINGS, AND ALL APPURTENANCES IN ITS ENTIRETY.
- 25 PROTECT IN PLACE EXISTING BOLLARD. ADJUST TO NEW DESIGN GRADE.
- 26 PROTECT IN PLACE EXISTING UTILITY PULL BOX, MANHOLE, VALVES, AND CLEANOUTS. ADJUST TO NEW DESIGN GRADES AS REQUIRED.
- 27 PROTECT IN PLACE EXISTING CHAINLINK FENCE AND GATE.
- 28 PROTECT IN PLACE EXISTING CONCRETE CURB.
- 29 PROTECT IN PLACE EXISTING BOOKSTAND IN INTS ENTIRETY.
- 30 PROTECT IN PLACE EXISTING MONUMENT AND CONCRETE BASE IN ITS ENTIRETY.
- 31 PROTECT IN PLACE EXISTING DRIVEWAY.
- 32 PROTECT IN PLACE EXISTING FIRE HYDRANT.
- 33 PROTECT IN PLACE EXISTING UTILITY POLE.
- 34 PROTECT IN PLACE EXISTING SIGNAGE.
- 35 PROTECT IN PLACE EXISTING ROOF DRAIN.
- 36 PROTECT IN PLACE EXISTING ELECTRICAL PAD EQUIPMENTS, CABINET, AND VAULT COORDINATE WITH ELECTRICAL DRAWINGS FOR EXISTING ELECTRICAL ITEMS TO REMAIN.
- 37 PROTECT IN PLACE EXISTING PLANTER AREA.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.

SITE DEMOLITION PLAN



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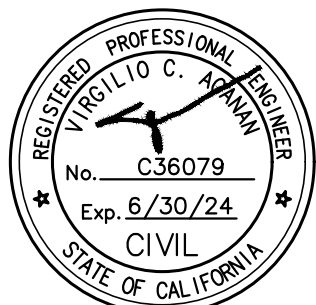
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DIV. OF THE STATE ARCHITECT
APP: 03-123948 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/21/2024

ARCHITECT:

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1760 508-1790 FAX

CONSULTANT:

MCA ENGINEERS, INC.
10411 S. Garfield Avenue, Suite 210
Atlanta, GA 30328
Tel. 323.729.6066
Fax. 323.729.6043



PROJECT NAME:

(N) PLAYGROUND STRUCTURE
MITCHELL ELEMENTARY SCHOOL
14429 SOUTH CONDON AVE.
LAWDALE, CA 90260

CLIENT:

LAWDALE
ELEMENTARY SCHOOL
DISTRICT

4161 W 147TH ST.
LAWDALE, CA 90260

Rev. Date	Description

JOB NO: 23026.01

DATE:

DRAWN:

CHECK:

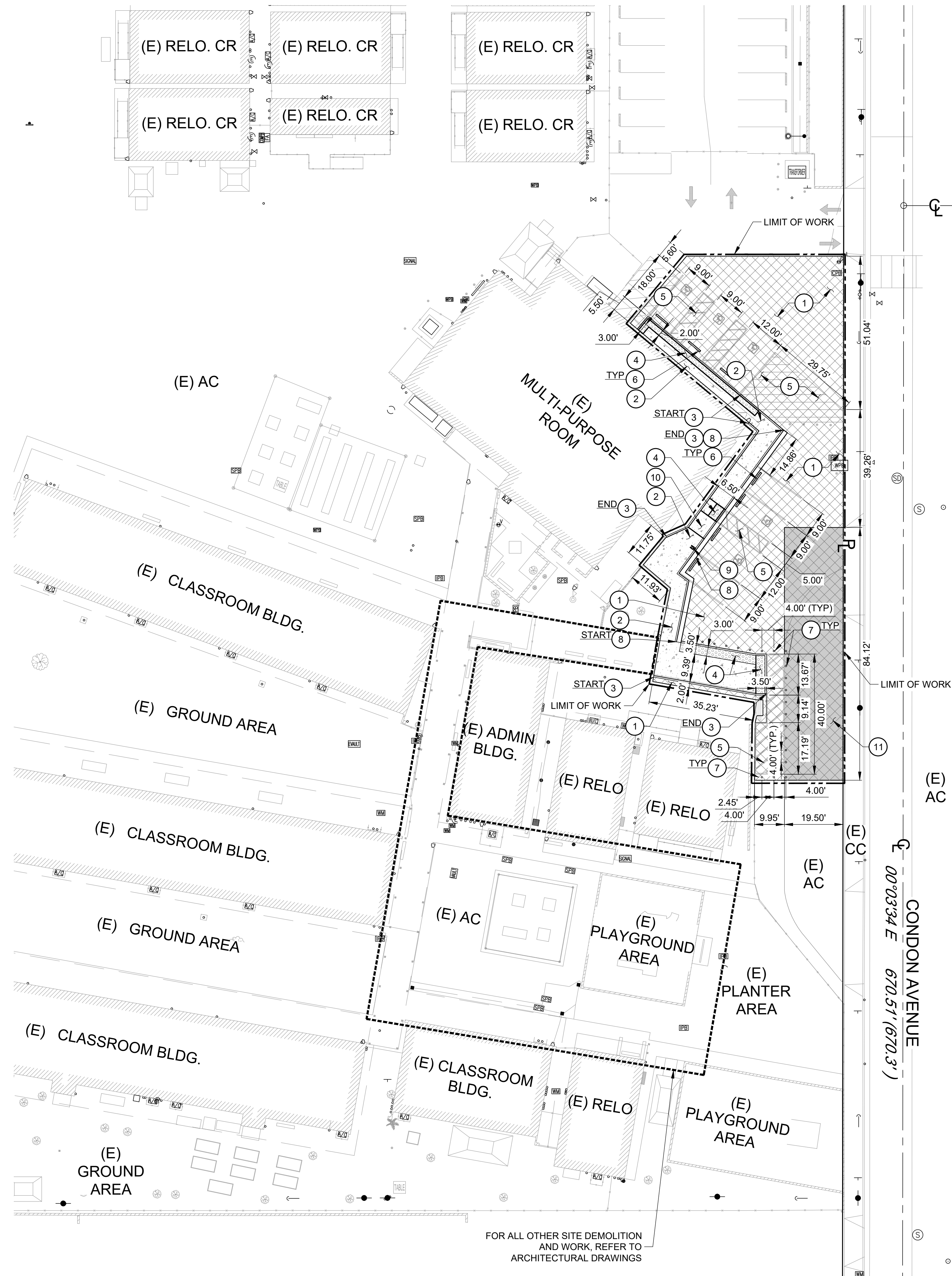
ARCHITECT:

ENGINEER:

SHEET DESCRIPTION:
SITE DEMOLITION PLAN

SHEET NO:

CD-1.0



CONSTRUCTION NOTES:

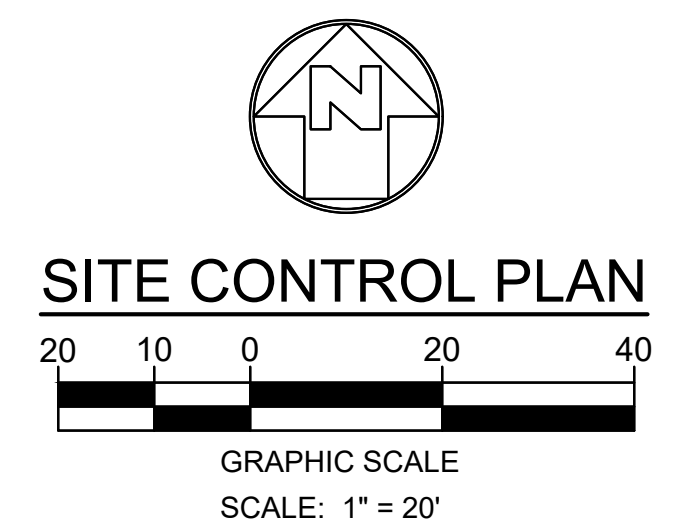
- 3" THICK AC SURFACING OVER 7.5" THICK CRUSHED AGGREGATE BASE (CAB). REFER TO DETAIL 1 ON SHEET C-4.0.
- 5.5" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 2 ON SHEET C-4.0.
- CONSTRUCT CONCRETE CURB PER DETAIL 5 ON SHEET C-4.0.
- INSTALL DETECTABLE WARNING SURFACE PER DETAIL 7 ON SHEET C-4.0.
- INSTALL STRIPING PER ARCHITECTURAL DRAWINGS.
- INSTALL CONCRETE WHEEL STOPS PER ARCHITECTURAL DRAWINGS.
- INSTALL BOLLARDS PER DETAIL 8 ON SHEET C-4.0.
- CONSTRUCT CONCRETE CURB AND GUTTER PER DETAIL 6 ON SHEET C-4.0.
- PROVIDE ELECTRICAL VEHICLE CHARGING STATION SIGN PER ARCHITECTURAL DRAWINGS.
- CONSTRUCT NEW PARALLEL CONCRETE CURB RAMP PER DETAIL 9 ON SHEET C-4.0.
- 5" THICK AC SURFACING OVER 6.5" THICK CRUSHED AGGREGATE BASE (CAB). REFER TO DETAIL 1 ON SHEET C-4.0.

LEGEND:

- 3" THICK AC SURFACING OVER 7.5" THICK CRUSHED AGGREGATE BASE (CAB). REFER TO DETAIL 1 ON SHEET C-4.0.
- 5" THICK AC SURFACING OVER 6.5" THICK CRUSHED AGGREGATE BASE (CAB). REFER TO DETAIL 1 ON SHEET C-4.0.
- 5.5" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 2 ON SHEET C-4.0.
- INSTALL NEW DETECTABLE WARNING SURFACE PER DETAIL 8 ON SHEET C-4.0.
- LIMIT OF WORK

SHEET NOTES:

- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS C-1.0.
- REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.



STATE:

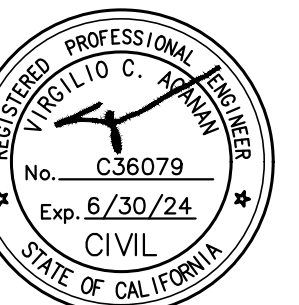
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10411 S. Garland Avenue, Suite 210
Alhambra, CA 91801
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MITCHELL ELEMENTARY SCHOOL
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CLIENT:

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ELEMENTARY SCHOOL
DISTRICT**

4161 W 147TH ST.
LAWNDALE, CA 90260

Rev.	Date	Description

JOB NO: 23026.01

DATE:

DRAWN:

CHECK:

ARCHITECT:

ENGINEER:

SHEET DESCRIPTION:
SITE CONTROL PLAN

SHEET NO:

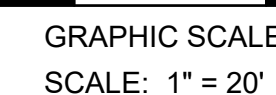
C-2.0



CONDON AVENUE

1. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES.
2. PROVIDE A HAUL ROUTE AS REQUIRED BY THE JURISDICTIONAL AGENCIES.
3. NO GRADING WORK SHALL BE PERFORMED AT ANY TIME WITHOUT AN EROSION SYSTEM APPROVED BY THE ENGINEER AND THE JURISDICTIONAL DISTRICT.
4. CONSTRUCT DESIGN GRADES SHOWN ON PLAN. CONSTRUCT STRAIGHT GRADES BETWEEN INDICATED ELEVATIONS UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATIONS FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL OF THE ARCHITECT.
5. THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.
6. THE CONTRACTOR IS ADVISED THAT THE APPROVAL OF THIS PLAN DOES NOT WAIVE THE REQUIREMENTS FOR EXCAVATIONS CONTAINED IN THE STATE CONSTRUCTION SAFETY ORDERS ENFORCED BY THE STATE DIVISION OF INDUSTRIAL SAFETY.
7. NO FILL TO BE PLACED, UNTIL THE GEOTECHNICAL ENGINEER OR INSPECTOR OF RECORDS OR HAS INSPECTED AND APPROVED THE BOTTOM OF EXCAVATION.
8. ALL FILL OR BACK FILL SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM 90% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D-1557. ALL FILL INSTALLATION SHALL REQUIRE CERTIFICATION BY THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION INSTALLATION.

C-3.0



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JOB NO: 23026.01

DATE: _____

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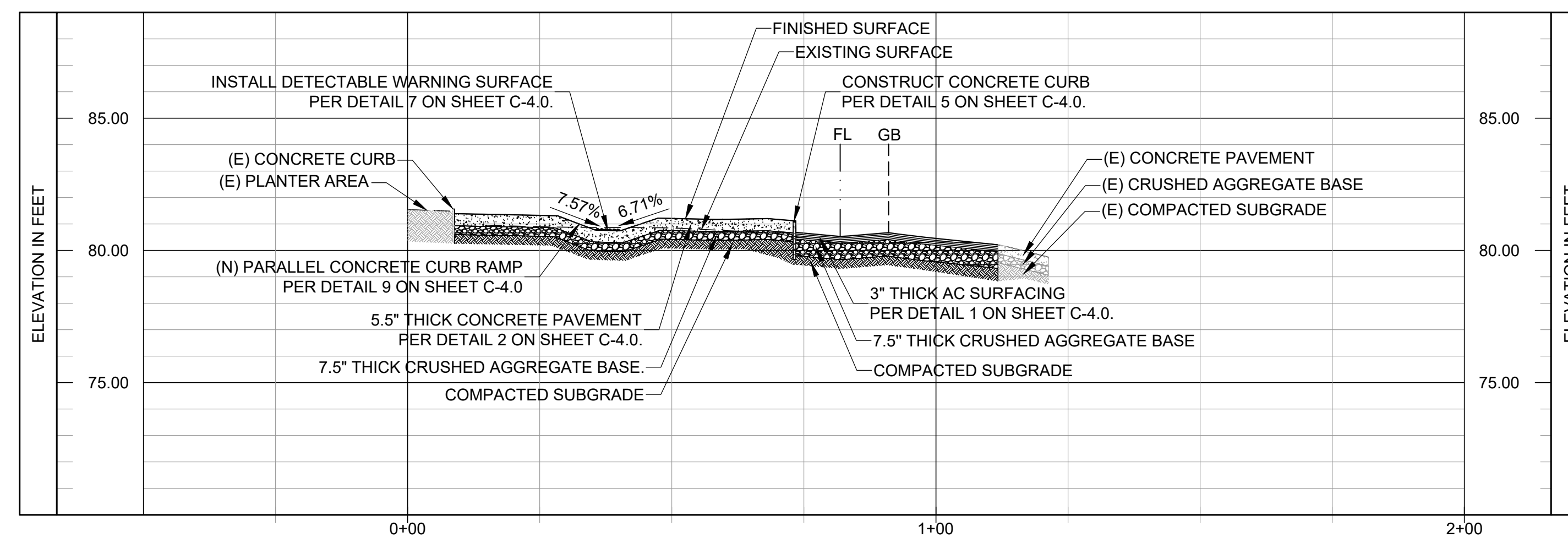
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ARCHITECT-

ENGINEER

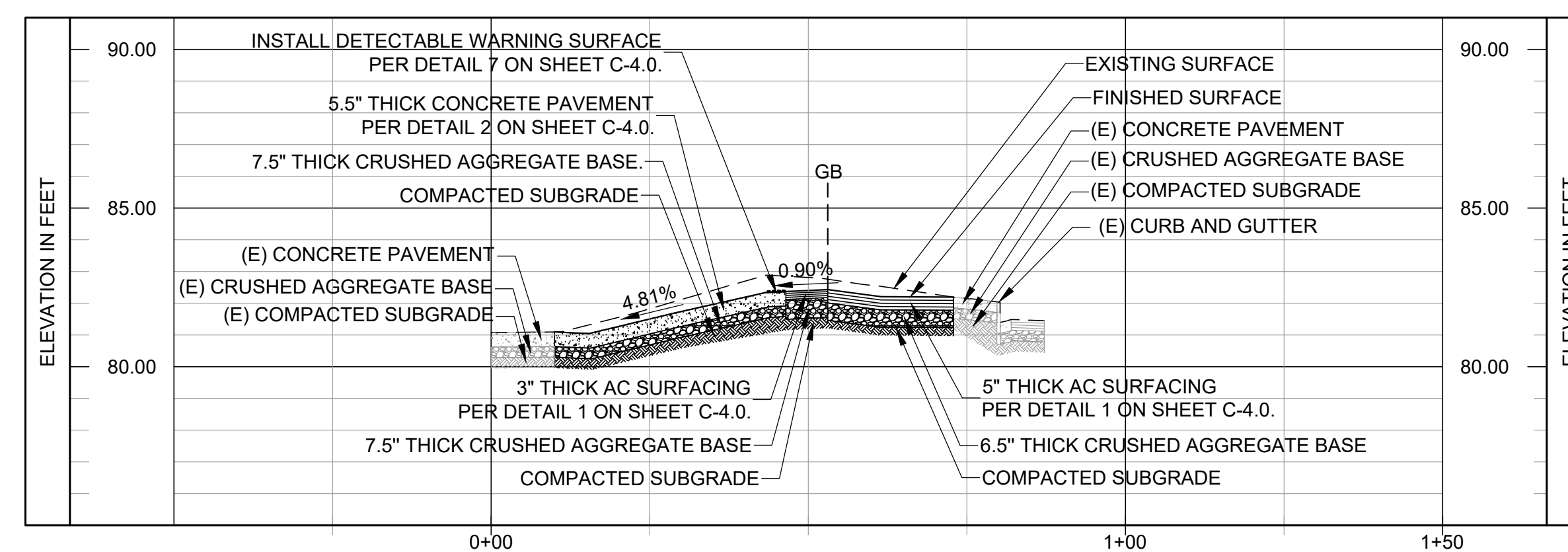
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SITE GRADING SECTION

SHEET NO:



GRADING SECTION
SCALE HOR 1"=20' VER 1"=4'

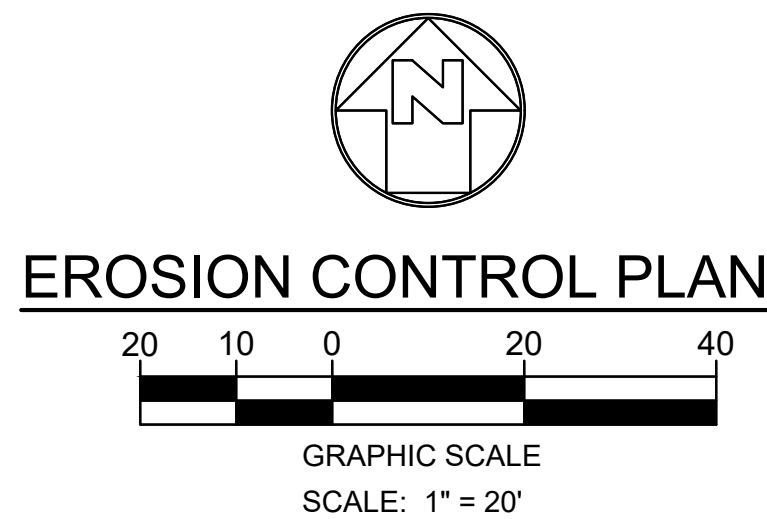
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C-3.0



GRADING SECTION
SCALE HOR 1"=20' VER 1"=4'

2
C-3.0

C-4.0



- ① INSTALL GRAVEL BAGS UNTIL THE COMPLETION OF THE SITE CONSTRUCTION. REFER TO DETAIL 2 ON SHEET C-5.1.
- ② SILT FENCE PER DETAIL 5 ON SHEET C-5.1.
- ③ STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 4 ON SHEET C-5.1.
- ④ PROPOSED AREA FOR EQUIPMENT STAGING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
- ⑤ PROPOSED AREA FOR FUELING/OILING. CONTRACTOR TO VERIFY ACTUAL AREA NEEDED AND COORDINATE WITH THE CPM. REFER TO DETAIL 9 ON SHEET C-5.1.
- ⑥ PROPOSED AREA FOR LOADING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
- ⑦ PROPOSED AREA FOR TEMPORARY TOILETS. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
- ⑧ PROPOSED AREA FOR VEHICLE AND EQUIPMENT STAGING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
- ⑨ TIRE WASH PER DETAIL 6 ON SHEET C-5.1.

The diagram illustrates two types of erosion control measures. The top measure is labeled "GRAVEL BAG" and is represented by a horizontal row of seven overlapping circles. The bottom measure is labeled "SILT FENCE" and is represented by a horizontal line with three small squares attached to it at regular intervals.

1. LOCATION FOR ANY DESIGNATED STOCKPILES SHALL BE COORDINATED AND DETERMINED BY THE CONTRACTOR ON-SITE. CONTRACTOR SHALL APPLY ALL APPLICABLE BMP'S TO PROTECT THE STOCKPILE AS OUTLINED IN DETAIL T ON SHEET C-5.1.
2. INSTALL 2" OF TEMPORARY CAB GRAVEL ON ALL ON-SITE CONSTRUCTION ROADWAYS TO STABILIZED AND CONTROL EROSION.
3. CONTRACTOR SHALL FROM TIME TO TIME MONITOR THE CONSTRUCTION SITE TO CLEAN AND SWEEP MATERIALS TRACKED OFF SITE.
4. ALL BMP'S, SILT FENCES, ETC., SHALL BE MONITORED AND MAINTAINED BY THE NTP1 CONTRACTOR FOR THE ENTIRE DURATION OF THE CONTRACT.
5. CONTRACTOR SHALL MONITOR WASTEWATER DISCHARGE (INCLUDING STORM RUNOFF) TO ENSURE IT MEETS STANDARDS SET BY APPROPRIATE LAWS, CODES, REGULATIONS, ORDINANCES AND PERMITS. PROVIDE A SETTLING BASIN AND OIL SEPARATOR PRIOR TO ITS DISCHARGE TO CITY OR COUNTRY SEWERS. PROVIDE A WATER SAMPLING STATION DOWNSTREAM OF BASIN FOR MONITORING OF WASTE WATER. DISPOSE OF WASTEWATER IN CLOSED CONDUITS SO AS NOT TO DAMAGE PUBLIC OR PRIVATE PROPERTY NOR CREATE A NUISANCE OR HEALTH HAZARD.
6. CONTRACTOR SHALL NOT DISCHARGE POLLUTANTS DOWNSTREAM OF THE SETTLING BASIN/OIL SEPARATOR. THESE POLLUTANTS INCLUDE LUBRICANTS, FUELS, CHEMICALS, AND BITUMENS. CONTROL USE OF LUBRICATING OILS, HYDRAULIC FLUIDS, GREASES, AND OTHER SUCH PRODUCTS. PROMPTLY CLEAN UP AND PROPERLY DISPOSE OF MATERIALS CONTAMINATED BY SPILLAGE OR LEAKAGE OF PRODUCTS.
7. THE CONTRACTOR SHALL MODIFY AS REQUIRED THE CURRENT APPROVED SWPPP/EROSION CONTROL PLANS FOR EACH PHASE OF THE PROJECT OR AS CONSTRUCTION ACTIVITIES PROGRESS THROUGH THE DURATION OF THE CONTRACT. THESE MODIFICATIONS SHALL BE REPORTED AND COORDINATED WITH BOTH THE QSD AND THE QSP. ANY MODIFICATIONS TO THE OVERALL DURATION OF CONSTRUCTION SCHEDULE FROM THAT AS SHOWN ON THE CURRENT SWPPP, SHALL ALSO BE REPORTED TO THE QSD. THE QSD SHALL THEN BE REQUIRED TO FILE AN EXTENSION OF CONSTRUCTION OR COI, (CHANGE OF INFORMATION), WITH THE STATE WATER RESOURCE CONTROL BOARD. ALL BMP'S SHALL BE MAINTAINED YEAR ROUND TO THE SATISFACTION OF THE QSD AND QSP.
8. CONTRACTOR SHALL PROTECT ALL EXISTING DRAIN INLETS WITHIN A 500-FT RADIUS FROM THE CENTER OF THE SITE TO PREVENT NON-STORMWATER RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.
9. FOR EROSION CONTROL, GENERAL NOTES, AND MISCELLANEOUS REQUIREMENTS, SEE SHEET C-5.1.

IDENTIFICATION STAMP
IV. OF THE STATE ARCHITECT
PP: 03-123948 INC:
REVIEWED FOR
S ☒ FLS ☒ ACS ☒
DATE: 05/21/2024

ARCHITECT:

WV

architecture
westbergwhite

14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX



MCA ENGINEERS INC.
CIVIL • STRUCTURAL
1041 S. Garfield Avenue, Suite 210
Alhambra, CA 91801
Tel. 323.729.6098
Fax. 323.729.6043



(N) PLAYGROUND STRUCTURE
MITCHELL ELEMENTARY SCHOOL
14429 SOUTH CONDON AVE.
LAWNDALE, CA 90260

**LAWNDALE
ELEMENTARY SCHOOL
DISTRICT**

4161 W 147TH ST.
LAWNDALE, CA 90260

[illegible]

JOB NO: 23026.01

DATE: _____

DRAWN:

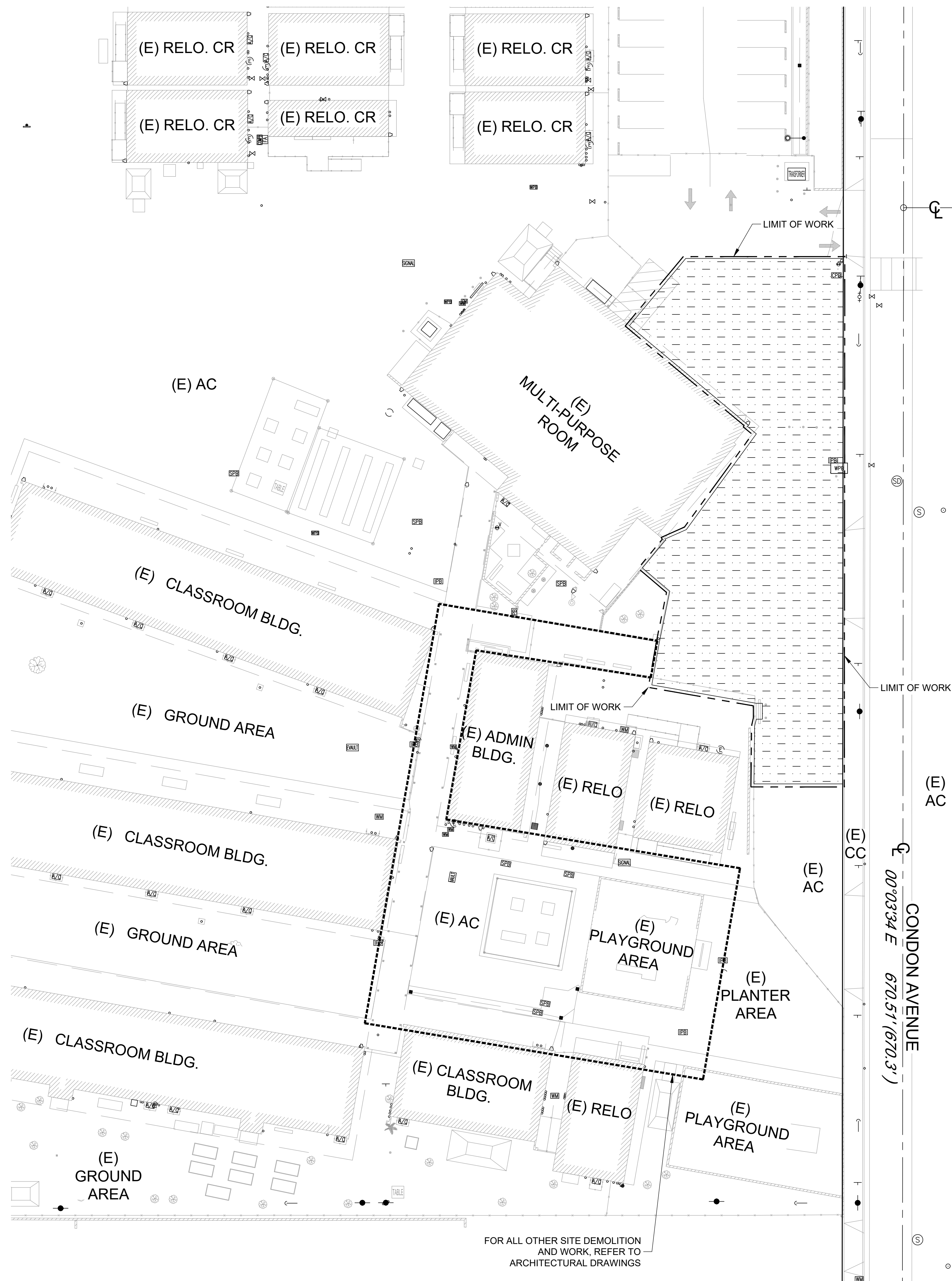
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ARCHITECT: _____

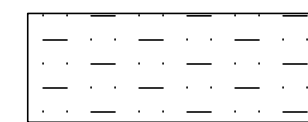
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SHEET DESCRIPTION:
EROSION CONTROL PLAN

SHEET NO:

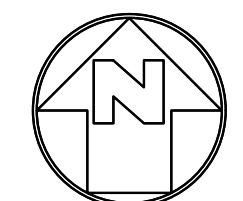
C-5.0



OVER EXCAVATION LEGEND:



REMOVE SUBGRADE SOILS TO A MINIMUM DEPTH OF TWO (2) FEET BELOW THE BOTTOM OF AND TWO (2) FEET LATERALLY BEYOND THE FOOTPRINT OF EXTERIOR CONCRETE SLAB-ON-GRADE / CONCRETE FLATWORK / HARDSCAPE / PAVEMENT.



OVEREXCAVATION PLAN



GRAPHIC SCALE
SCALE: 1" = 20'

STATE:

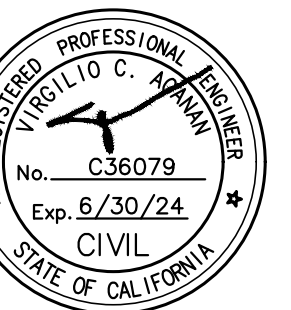
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123948 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/21/2024

ARCHITECT:

architecture
westbergwhite
14471 CHAMBERS RD, SUITE 210
TUSTIN, CA 92780
(714) 508-1780 508-1790 FAX

CONSULTANT:

MCA ENGINEERS, INC.
10411 S. Garfield Avenue, Suite 210
Alhambra, CA 91801
Tel. 323.729.8899
Fax. 323.729.6043



PROJECT NAME:

(N) PLAYGROUND STRUCTURE
MITCHELL ELEMENTARY SCHOOL
14429 SOUTH CONDON AVE.
LAWNDALE, CA 90260

CLIENT:

LAWNDALE
ELEMENTARY SCHOOL
DISTRICT

4161 W 147TH ST.
LAWNDALE, CA 90260

Rev.	Date	Description

JOB NO: 23026.01

DATE:

DRAWN:

CHECK:

ARCHITECT:

ENGINEER:

SHEET DESCRIPTION:
OVEREXCAVATION PLAN

SHEET NO:

C-6.0



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

ARCHITECT / ENGINEERTOTAL SHEET COUNT: 63 SHEETS

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.		

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



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:
Lawndale Elementary S.D.

PROJECT NAME:
Billy Mitchell Elementary School

LOCATION:
14429 Condon Avenue
Lawndale, CA 90260

MODEL NUMBER:

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

**PRE-CHECK (PC)
DOCUMENT**

Code : 2022 CBC
A separate project application
for construction is required.

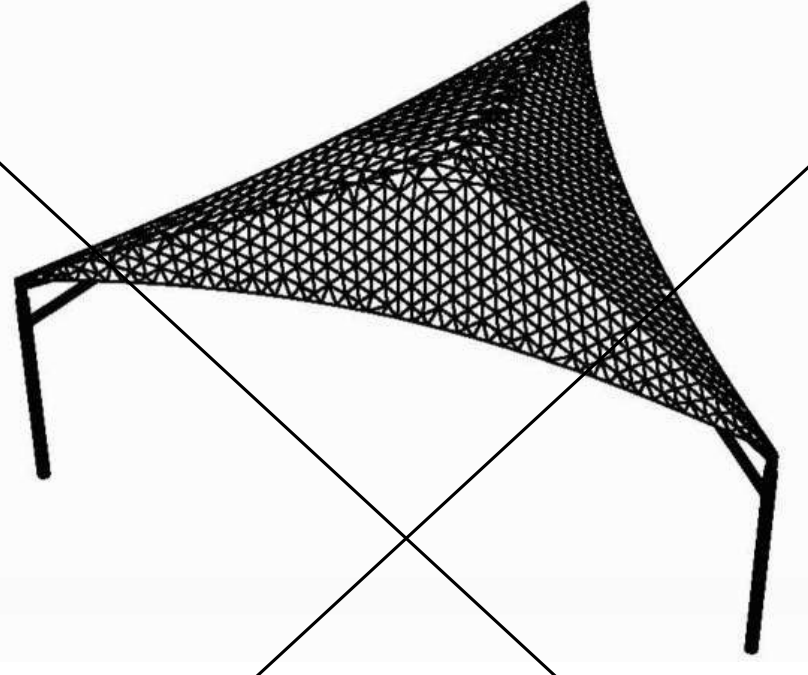
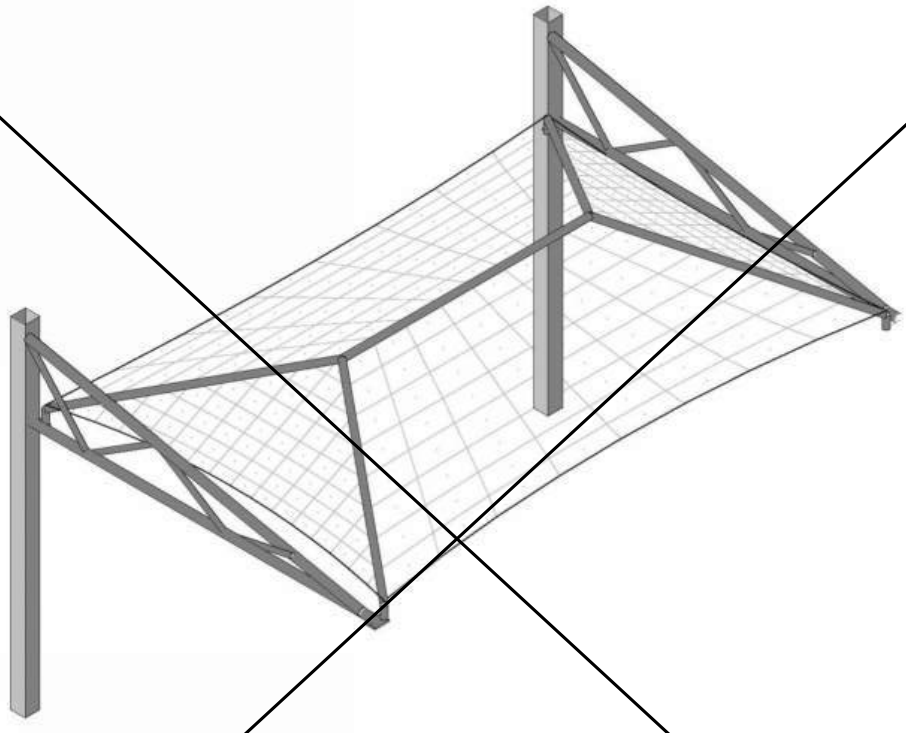
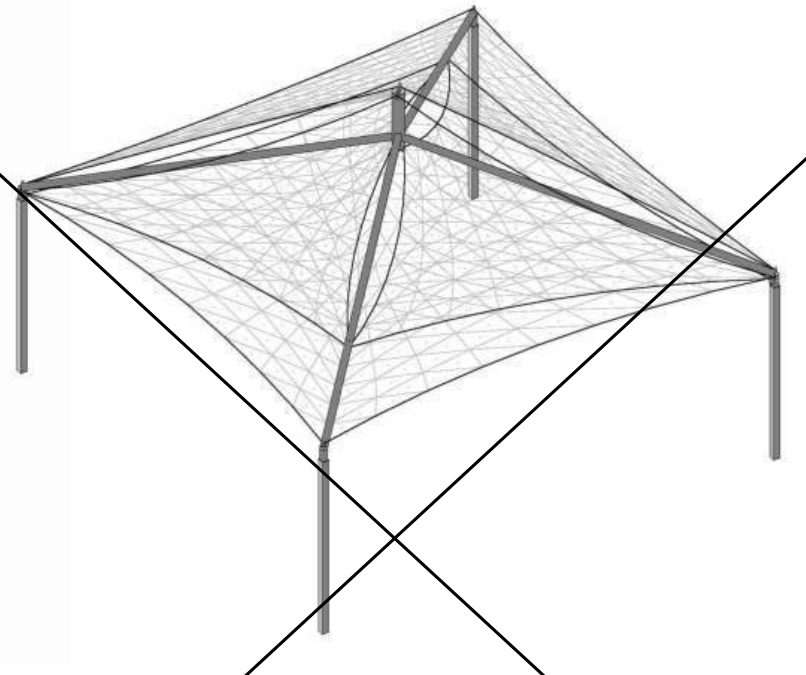
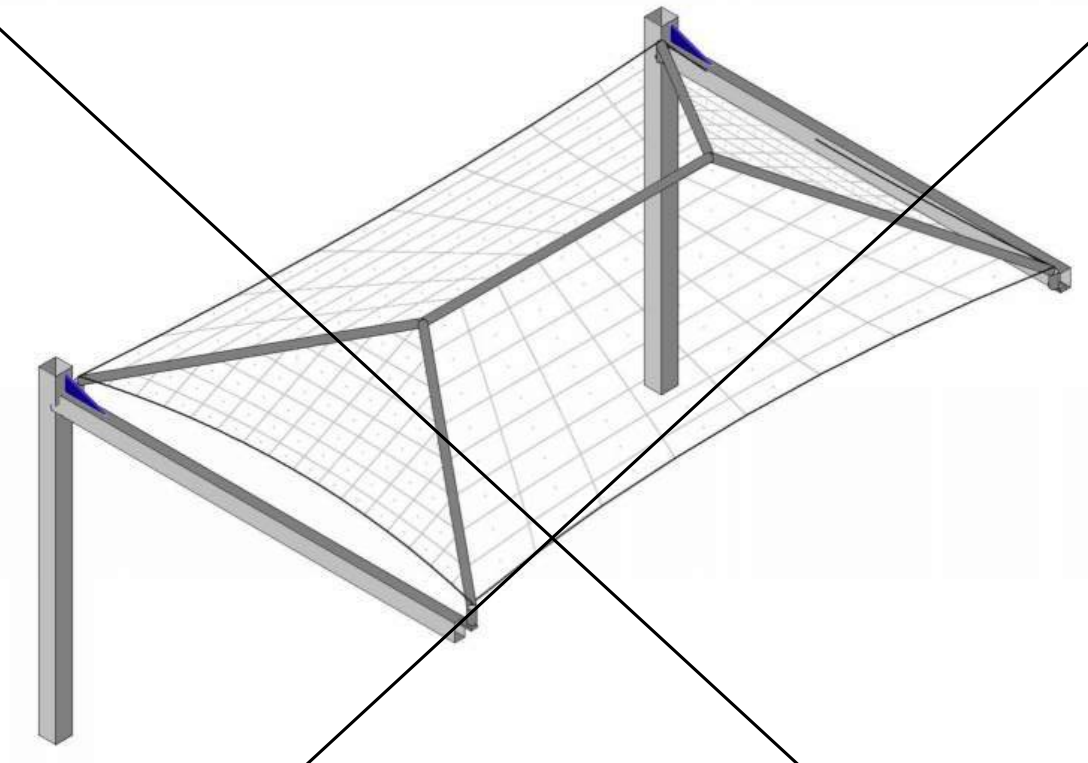
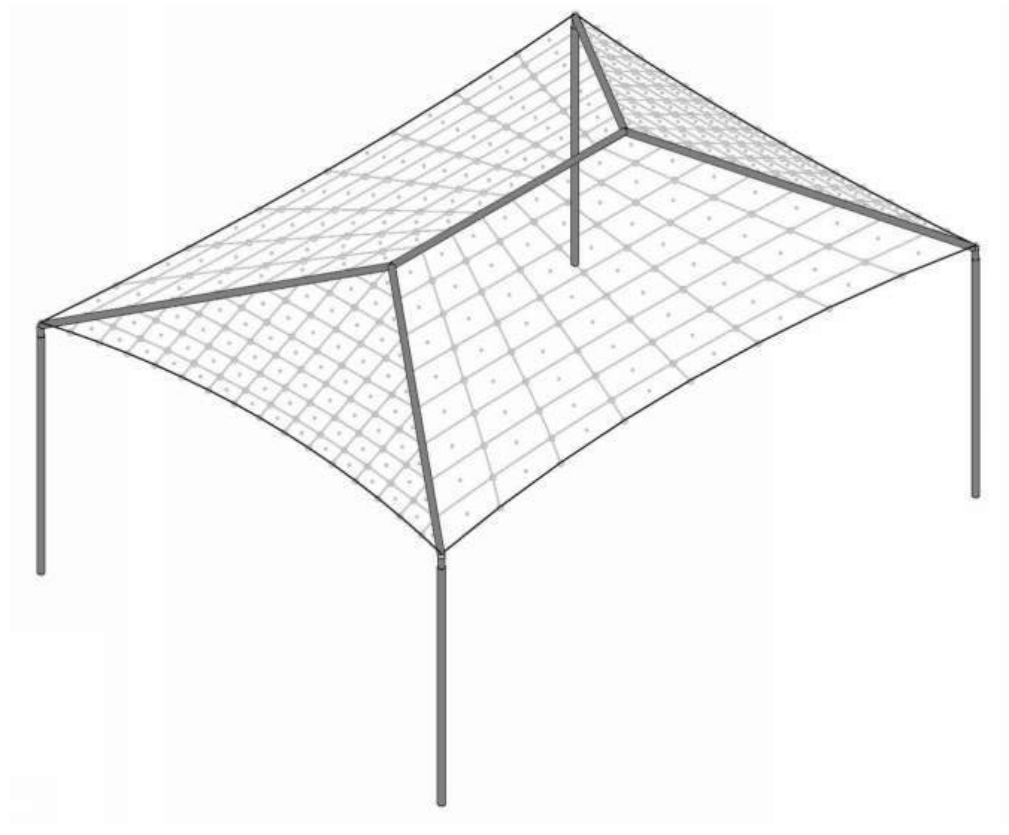
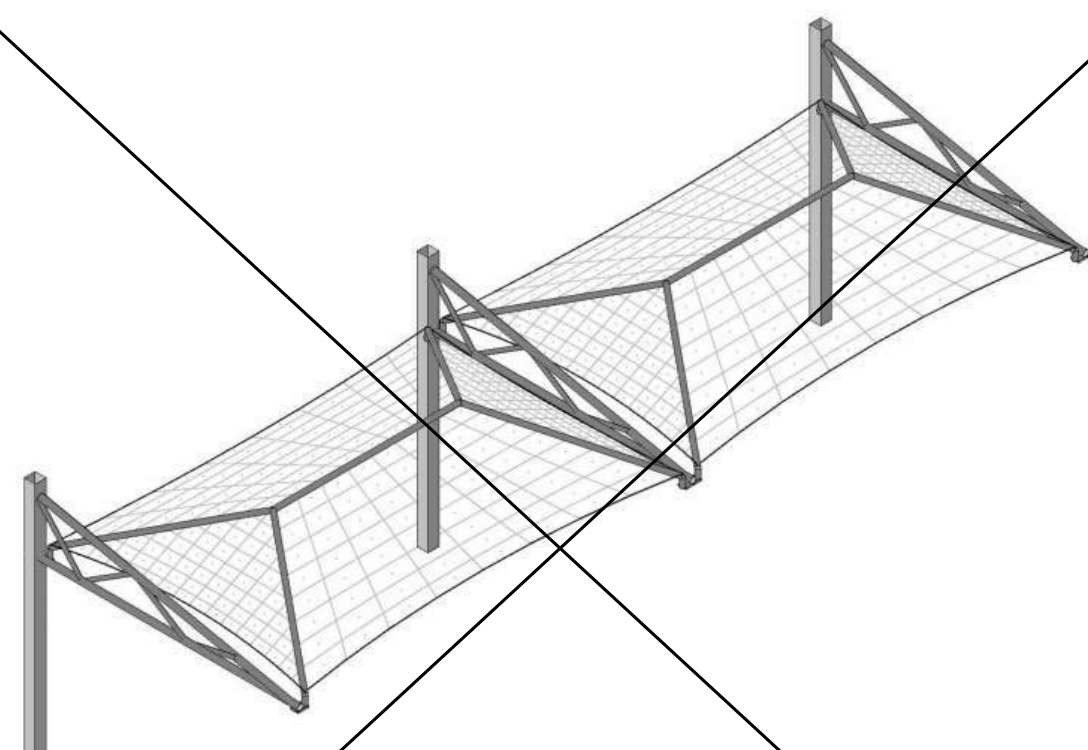
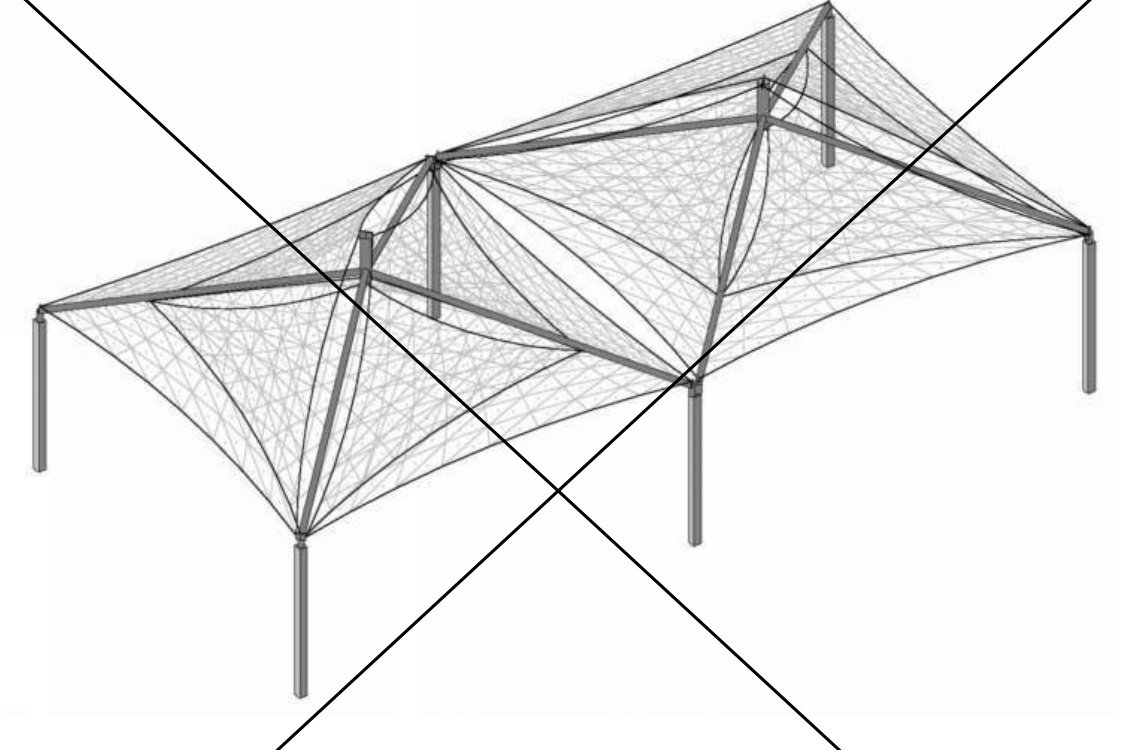
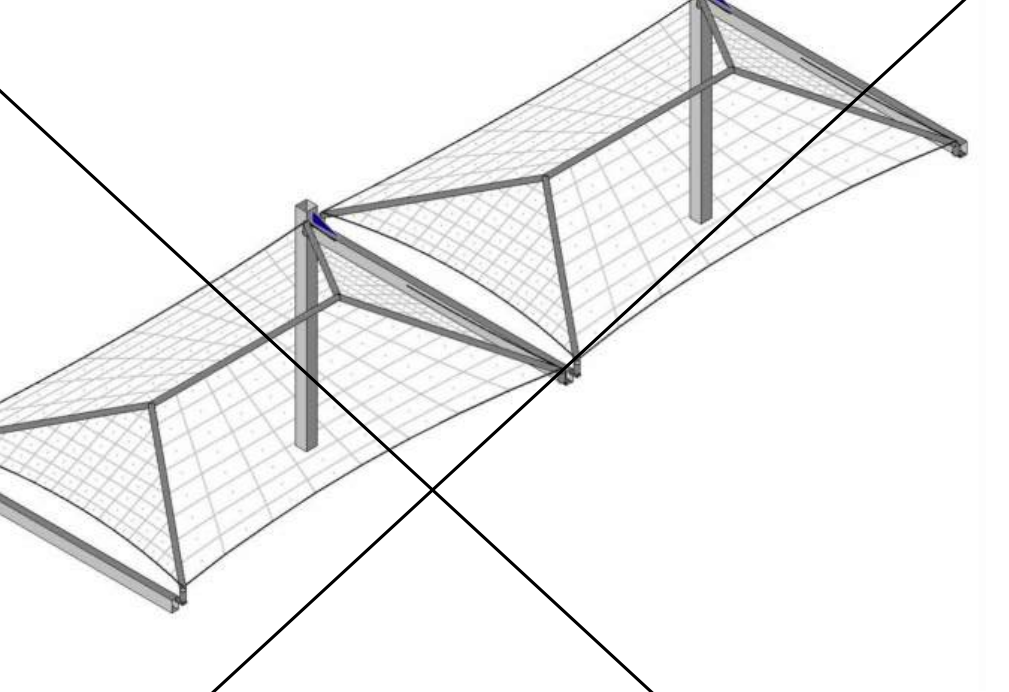
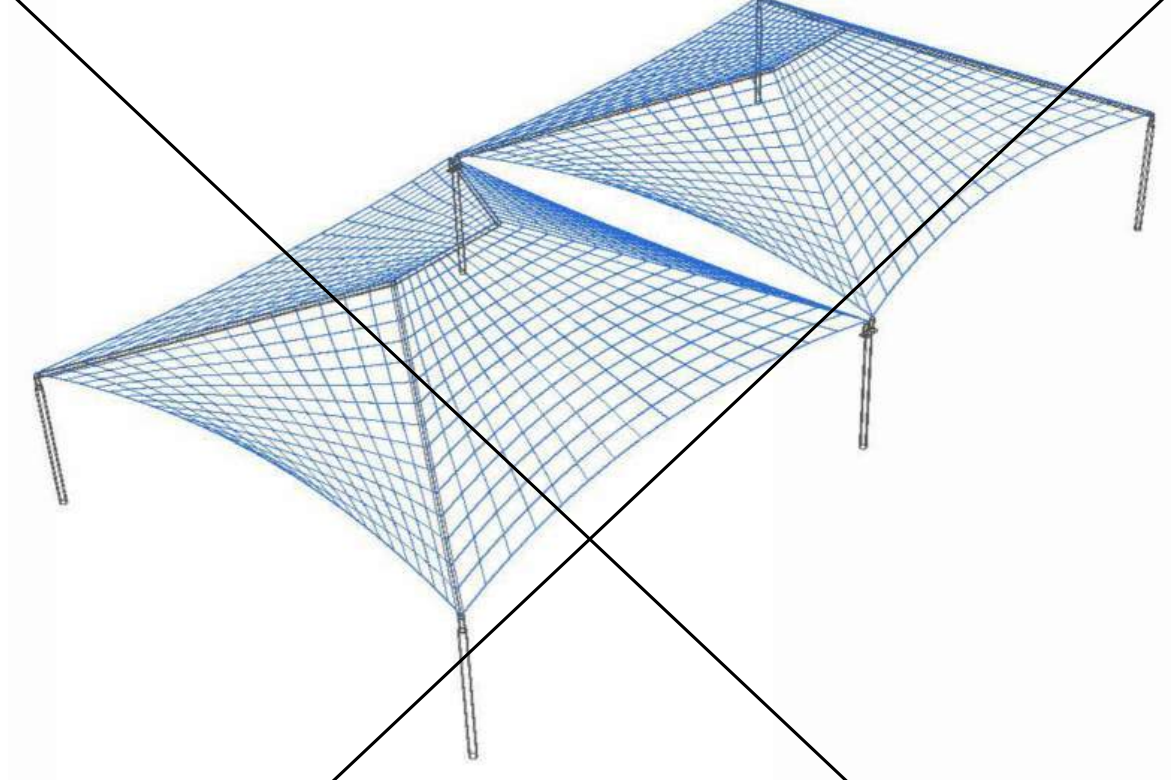
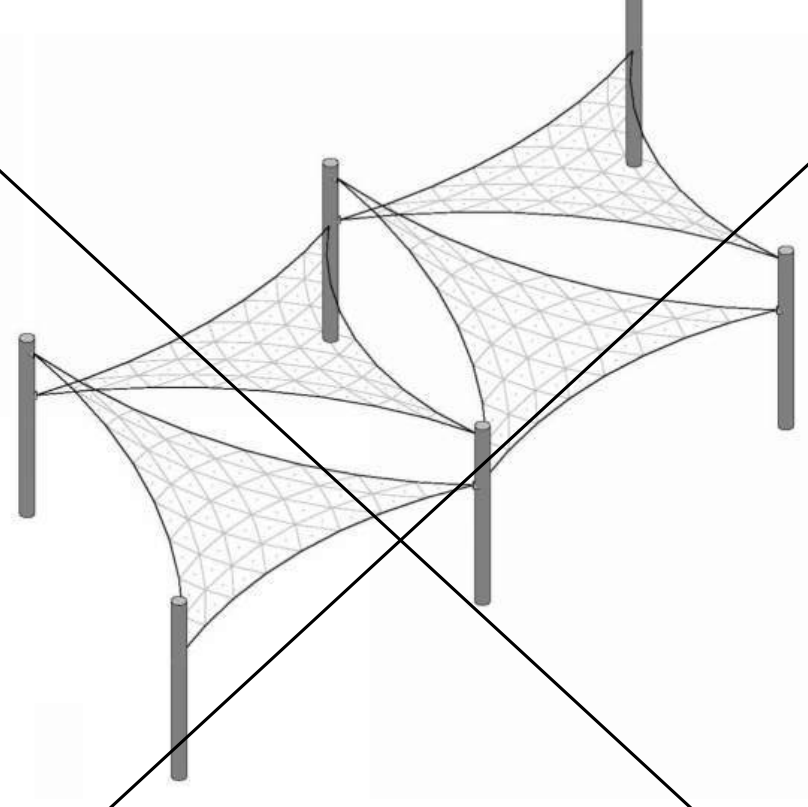
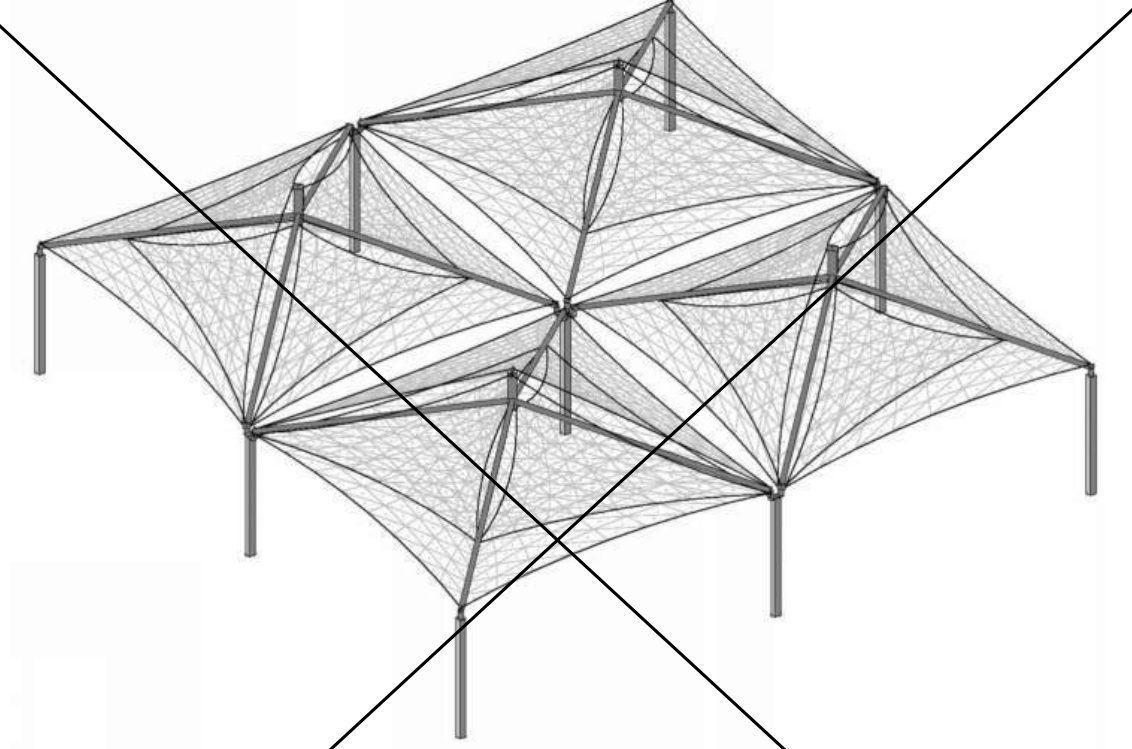
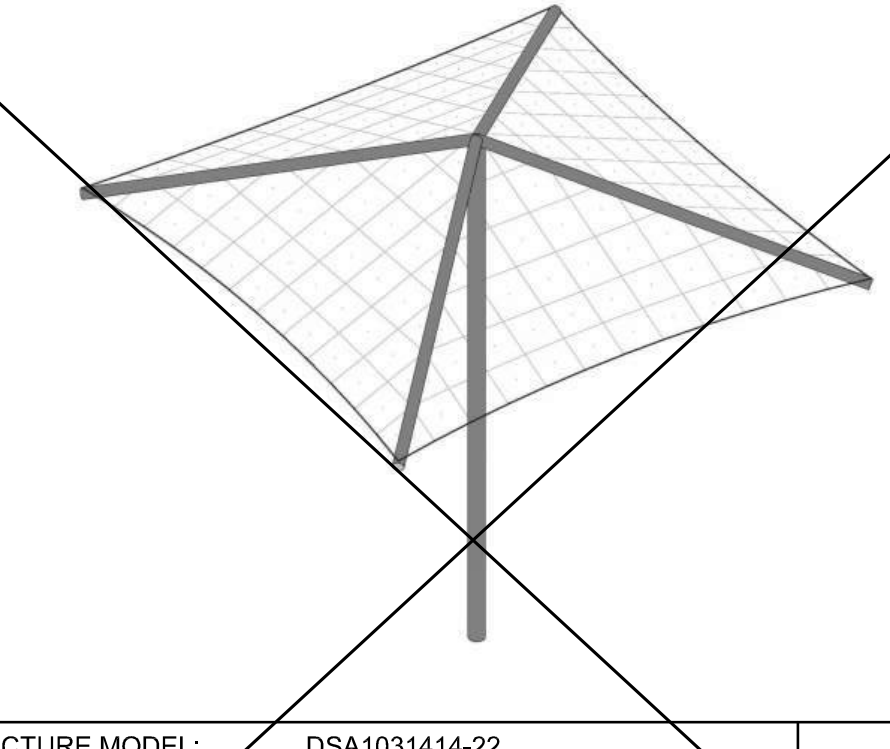
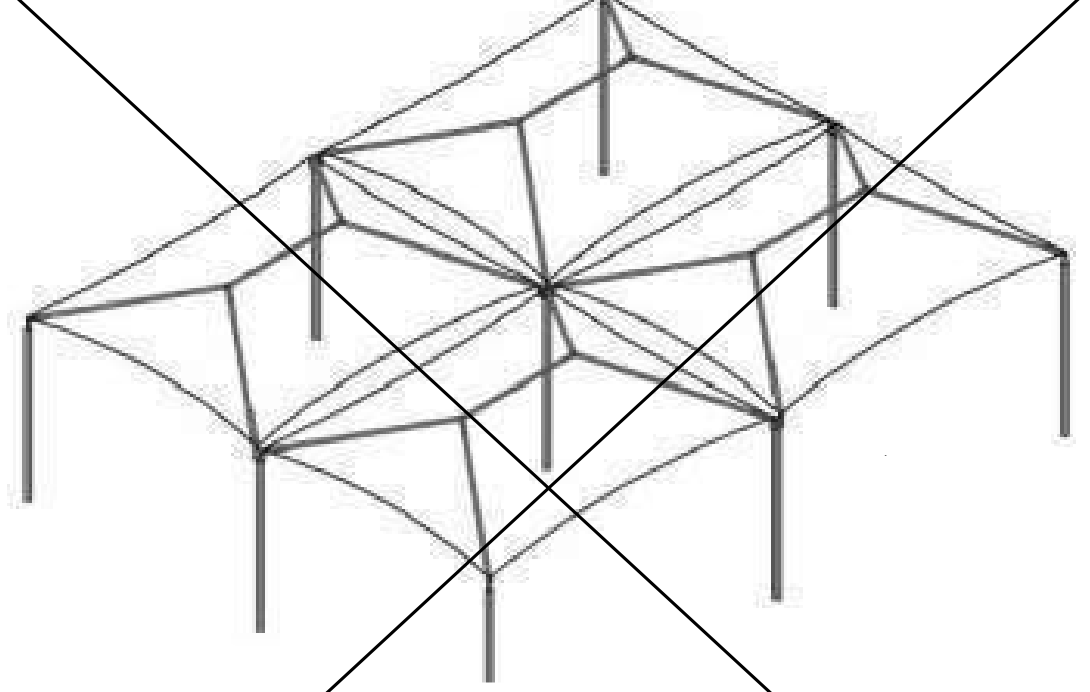
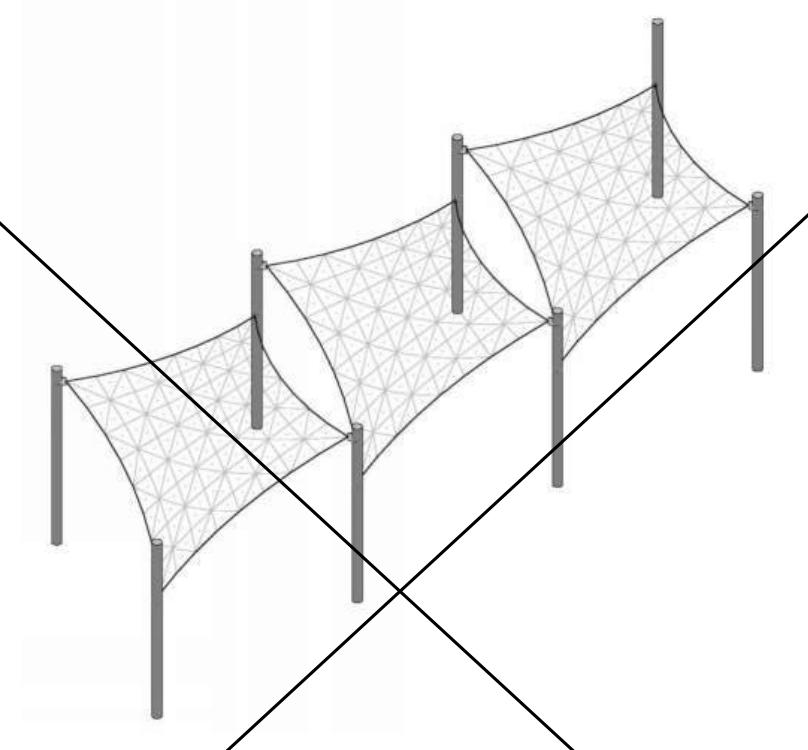
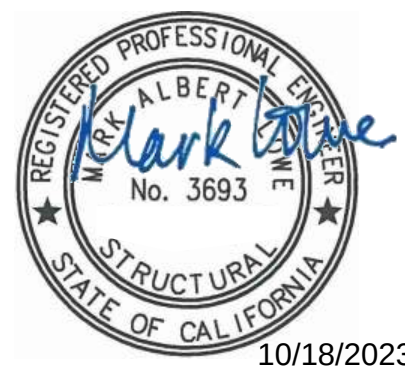
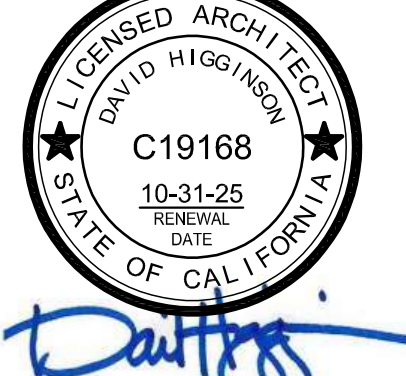
Eng. By :	DWH	2/14/23
Design By :	DWH	2/14/23
Approved By :	DWH	2/14/23

DRAWING DESCRIPTION:

DWG. UNIT SELECTION

SHEET T-2.0

REV.

 STRUCTURE MODEL: DSA30125-22 MAX. SIZE: 25' x 25' x 15' MAX. AREA: 271 SQ. FT. MAX. OCCUPANCY: 16 PERSONS SEE SHEET 26.1-1000 STRUCTURE MODEL: DSA30140-22 MAX. SIZE: 40' x 40' x 15' MAX. AREA: 692 SQ. FT. MAX. OCCUPANCY: 46 PERSONS SEE SHEET 27.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 TRIANGLE	 STRUCTURE MODEL: DSA202030-22 MAX. SIZE: 20' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 21.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 TRI-TRUSS HIP SINGLE WIDE	 STRUCTURE MODEL: DSA4073030-22 MAX. SIZE: 30' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 17.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 MARINER PEAK	 STRUCTURE MODEL: DSA2022030-22 MAX. SIZE: 20' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 11.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 FULL CANTILEVER HIP SINGLE	 STRUCTURE MODEL: DSA4012030-22 MAX. SIZE: 20' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 1.1-1000 STRUCTURE MODEL: DSA4013030-22 MAX. SIZE: 30' x 30' x 15' MAX. AREA: 900 SQ. FT. MAX. OCCUPANCY: 60 PERSONS SEE SHEET 2.1-1000 STRUCTURE MODEL: DSA4013040-22 MAX. SIZE: 30' x 40' x 15' MAX. AREA: 1,200 SQ. FT. MAX. OCCUPANCY: 80 PERSONS SEE SHEET 3.1-1000 STRUCTURE MODEL: DSA401203012-22 MAX. SIZE: 20' x 30' x 12' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 4.1-1000 STRUCTURE MODEL: DSA401303012-22 MAX. SIZE: 30' x 30' x 12' MAX. AREA: 900 SQ. FT. MAX. OCCUPANCY: 60 PERSONS SEE SHEET 5.1-1000 X STRUCTURE MODEL: DSA401304012-22 MAX. SIZE: 30' x 40' x 12' MAX. AREA: 1,200 SQ. FT. MAX. OCCUPANCY: 80 PERSONS SEE SHEET 6.1-1000 STRUCTURE MODEL: DSA4014040-22 MAX. SIZE: 40' x 40' x 12' MAX. AREA: 1,600 SQ. FT. MAX. OCCUPANCY: 100 PERSONS SEE SHEET 7.1-1000 STRUCTURE MODEL: DSA401S2030-22 (20 psf SNOW LOAD) MAX. SIZE: 20' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 8.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 HIP
 STRUCTURE MODEL: DSA60340-22 MAX. SIZE: 340' x 15' MAX. AREA: 1,540 SQ. FT. MAX. OCCUPANCY: 60 PERSONS SEE SHEET 28.1-1000 STRUCTURE MODEL: DSA60360-22 MAX. SIZE: 360' x 15' MAX. AREA: 2,338 SQ. FT. MAX. OCCUPANCY: 156 PERSONS SEE SHEET 29.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 HEXAGON	 STRUCTURE MODEL: DSA3052060-22 MAX. SIZE: 20' x 200' x 15' MAX. AREA: 4,000 SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 22.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 TRI-TRUSS HIP JOINED	 STRUCTURE MODEL: DSA407J3060-22 MAX. SIZE: 20' x 233' x 15' MAX. AREA: 3,990 SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 19.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 MARINER PEAK JOINED	 STRUCTURE MODEL: DSA3022060-22 MAX. SIZE: 20' x 200' x 15' MAX. AREA: 4,000 SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 12.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 FULL CANTILEVER HIP JOINED	 STRUCTURE MODEL: DSA401J-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES SEE SHEET 9.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 JOINED HIP
NOT USED	 STRUCTURE MODEL: DSA30730-22 MAX. SIZE: 30' x 133' x 15' MAX. AREA: 3,990 SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 23.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 TENSIONS SAILS THREE-POINT	 STRUCTURE MODEL: DSA407Q6060-22 MAX. SIZE: 60' x 133' x 15' MAX. AREA: 3,990 SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 24.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 MARINER PEAK QUAD	 STRUCTURE MODEL: DSA1031414-22 MAX. SIZE: 14' x 14' x 12' MAX. AREA: 196 SQ. FT. MAX. OCCUPANCY: 13 PERSONS SEE SHEET 13.1-1000 STRUCTURE MODEL: DSA1032020-22 MAX. SIZE: 20' x 20' x 12' MAX. AREA: 400 SQ. FT. MAX. OCCUPANCY: 26 PERSONS SEE SHEET 14.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 SINGLE POST PYRAMID	 STRUCTURE MODEL: DSA401Q-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES SEE SHEET 10.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 QUAD HIP
NOT USED	 STRUCTURE MODEL: DSA12414-22 MAX. SIZE: 20' x 200' x 15' MAX. AREA: 4,000 SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 24.1-1000 STRUCTURE MODEL: DSA1243030-22 MAX. SIZE: 30' x 133' x 15' MAX. AREA: 3,990 SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 25.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 TENSIONS SAILS FOUR-POINT	NOT USED	 STRUCTURE MODEL: DSA1241414-22 MAX. SIZE: 14' x 14' x 12' MAX. AREA: 196 SQ. FT. MAX. OCCUPANCY: 13 PERSONS SEE SHEET 15.1-1000 STRUCTURE MODEL: DSA1242020-22 MAX. SIZE: 20' x 20' x 12' MAX. AREA: 400 SQ. FT. MAX. OCCUPANCY: 26 PERSONS SEE SHEET 16.1-1000 FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 SINGLE POST PYRAMID CANTILEVER	  10/18/2023

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: 04-121917 Increment Number: 2023-02-15 15:23:09 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, and edge 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. 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 Approval (LEA) Program. See CAC Section 4-3.55. PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified and licensed special inspector.
Periodic – Indicates that a periodic special inspection is required	
Test – Indicates that a test is required	

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 1 of 17

STATE OF CALIFORNIA

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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

C1. CAST-IN-PLACE CONCRETE	Type	Performed By	Code References and Notes
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. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2, ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☐ c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6, ACI 318-19 Sections 26.5 & 26.12.
☐ d. Test concrete (f _c).	Test	LOR	1905A.1.17, ACI 318-19 Section 26.12.
☐ e. Batch plant inspection 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 Item 1 & 9.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 5 of 17

STATE OF CALIFORNIA

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

1705A.2.1, Table 1705A.2.1, AISC 360-16, 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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

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

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

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

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

1705A.2.1, Table 1705A.2.1, AISC 360-16, 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: 04-121917 Increment Number: 2023-02-15 15:23:09 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/HFES.1 Section 7.3.2, Table 1705A.1.7
☐ d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.1.7. * May be performed by the project inspector when specifically approved by DSA.

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

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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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

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

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ S1. GENERAL:			
☐ a. Verify that:	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.
☐ 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.

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 thickness, 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.

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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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. Verify in-place 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):	Type	Performed By	Code References and Notes
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:	Continuous	SI	Table 1705A.3, ACI 318-19 Section 26.13.1.3; ACI 550.5
1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.			
☐ d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3, ACI 318-19 Section 26.13.1.3; ACI 550.5

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

1705A.2.1, Table 1705A.2.1, AISC 360-16, 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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):	Type	Performed By	Code References and Notes
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".	Periodic	SI	Table 1705A.2.2 Item 5a.5; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐ c. Inspect end-welded studs (ASTM A-108) installation (excluding lap welds).	Periodic	SI	2213A.2, AISC 360-16 (and 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 (and 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 (and 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.

GENERAL DSA-103 NOTES:

- 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.
- 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:

- THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
- A "DSA CERTIFIED" PROJECT INSPECTOR 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.
- THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
- THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
- THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
- PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
 - A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
 - 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, ITS 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.

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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

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 elevation 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 Notes
☐ 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.		

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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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

C4. SHOTCRETE (IN ADDITION TO SECTION C1):	Type	Performed By	Code References and Notes
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 9, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506.16.
☐ 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 Section 17.6 & 17.13. * May be performed by the project inspector when specifically approved by DSA.
☐ b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a.			

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

1705A.2.1, Table 1705A.2.1, AISC 360-16, 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: 04-121917 Increment Number: 2023-02-15 15:23:09 Date Created: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
S/A6. NONDESTRUCTIVE TESTING:	Type	Performed By	Code References and Notes
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 NS.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 NS.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 connection and weld filler material, verify joint profile, dimensions and camber (if applicable), verify all weld locations, lengths and profiles, mark or tag each joint.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1, DSA IR 22-3 for steel joists only. 1705A.2.4, AWS D1.3 for cold-formed steel trusses.

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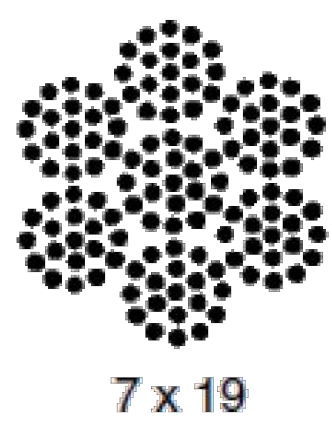
DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

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: 04-121917 Increment Number:

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		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

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.

Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd



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.

C Walker

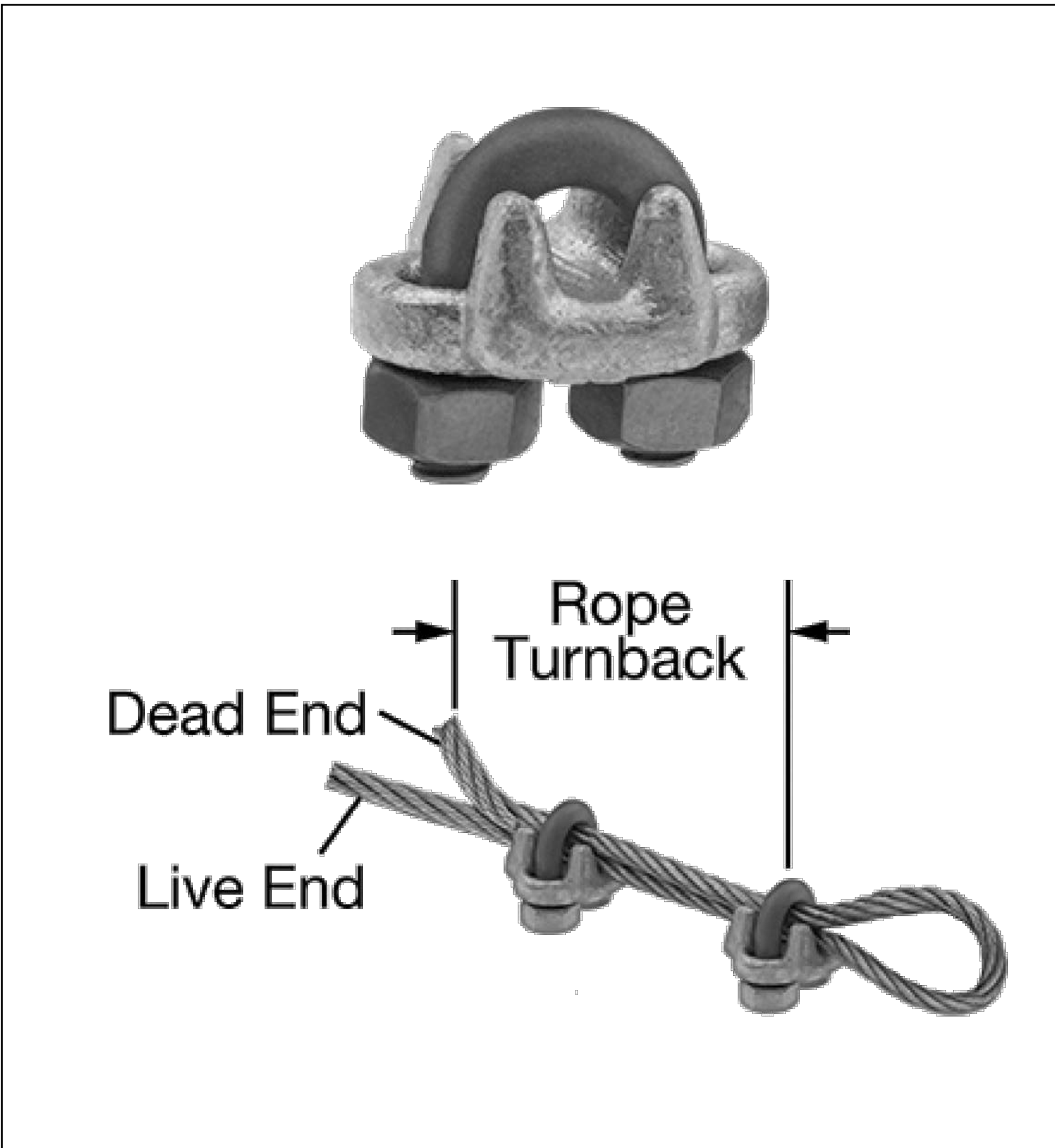
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Patricia Setter

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

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.gov/nexus.org for more information on Licensing and Permitting with CAL FIRE



FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 x 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

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



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:

Lawndale Elementary S.D.

PROJECT NAME:

Billy Mitchell Elementary School

LOCATION:

14429 Condon Avenue
Lawndale, CA 90260

MODEL NUMBER:

DSA401304012-22

STRUCTURE TYPE:

H I P

DSA

SIZE:

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

SCALE : NONE

DRAWING SIZE:

D

PRE-CHECK (PC) DOCUMENT

Code : 2022 CBC

A separate project application for construction is required.

Eng. By : HH 12/01/22

Design By : OS 12/01/22

Approved By : MB 12/01/22

DRAWING DESCRIPTION:

SPECIFICATIONS

DWG. DSA401304012-22

SHEET 7.2-2000

REV. NC

