BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL

NEW STORAGE BUILDING WITH BLEACHER SEATING ABOVE

902 NORTH 3RD STREET, BURBANK, CA 91502

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND PROPOSED CONSTRUCTION, PIPING, CONDUITS, CLEAN-OUTS, PULL BOXES, ETC. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT AND ARCHITECT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL GRADES ELEVATIONS, DIMENSIONS, AND CONDITIONS OF INSTALLATION PRIOR TO PROVIDING BID. ANY DISCREPANCIES DISCOVERED BY THE CONTRACTOR DURING THE ABOVE INVESTIGATIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT. THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL THEREBY CERTIFY THAT THE ABOVE STATED REQUIREMENTS HAVE BEEN MET.
3. GENERAL CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY FOR THE COMPLETE AND PROPER EXECUTION OF THE WORK.
4. THE ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ARCHITECT AND / OR STRUCTURAL ENGINEER.
5. ALL WORK SHALL CONFORM TO THE "APPLICABLE CODES" AS LISTED HEREON.
6. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF IN A LEGAL MANNER ALL EXCESS DIRT / SOIL AND DEBRIS RESULTANT OF THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
7. CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FOR ALL WORK THAT OCCURS IN ANY PUBLIC RIGHT-OF-WAY AND / OR EASEMENT. FEES FOR REQUIRED PERMITS SHALL BE PAID FOR DIRECTLY BY CONTRACTOR AND SHALL BE REIMBURSED BY THE DISTRICT 1:1.
8. PROPERLY REMOVE ALL DEMOLISHED ITEMS AND MATERIALS FROM THE SITE AND DISPOSE OF ALL IN A LEGAL MANNER.
9. REPAIR OR REPLACE EXISTING WALKS, UTILITY LINES, LANDSCAPING, ETC. THAT ARE DAMAGED DURING CONSTRUCTION. PROTECT ALL EXISTING CONSTRUCTION DESIGNATED TO REMAIN.
10. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, C.C.R.
11. A DSA CERTIFIED CLASS 2 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN THE SECTION 4-342 PART 1, TITLE 24, C.C.R.
12. A DSA APPROVED TESTING LABORATORY DIRECTLY EMPLOYED AND PAID FOR BY THE DISTRICT SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
13. CONTRACTOR SHALL NOTIFY DISTRICT AND ARCHITECT IN WRITING UPON COMPLETION OF SITE PREPARATION.
14. PATCH AND REPAIR ALL SURFACES AFFECTED BY CONTRACT WORK AND BY SELECTIVE DEMOLITION TO A "LIKE NEW" CONDITION OR TO MATCH EXISTING ADJACENT FINISHES.
15. FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2019 CFC CHAPTER 7, 11 AND 33.
16. ALL CONTRACTORS ARE ADVISED THAT CERTAIN PORTIONS OF THE WORK MAY NOT BE EASY AND MAY EXCEED THE ASSUMED STANDARD OF THE INDUSTRY, INCLUDING MEANS AND METHOD, OPERATIONAL STAGING, SCHEDULING AND COORDINATION OF WORK, AS WELL AS TIME AND DURATION OF ACTIVITIES NECESSARY TO SATISFACTORILY COMPLETE THE PROJECT IN ACCORDANCE WITH THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS AND OPERATIONAL SUPPORT NECESSARY TO COMPLETE THE PROJECT AS REQUIRED UNDER THIS CONTRACT.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER NECESSARY FOR CONSTRUCTION. WATER CAN BE MADE AVAILABLE ON-SITE VIA EXISTING HYDRANT, AND SHALL BE PROPERLY METERED THROUGH LOCAL WATER AGENCY.
18. CONTRACTOR MAY ONLY STAGE AND PERFORM WORK IN AREAS SPECIFICALLY IDENTIFIED FOR THIS CONTRACT. ALL WORK REQUIRED TO BE PERFORMED OUTSIDE OF THE DESIGNATED AREAS SHALL REQUIRE MONITORING BY ASSIGNED DISTRICT STAFF OR SHALL BE PERFORMED DURING NON-SCHOOL HOURS. ALL REQUESTS FOR MONITORED WORK SHALL BE MADE IN WRITING 48 HOURS IN ADVANCE BY GENERAL CONTRACTOR AND SCHEDULING SHALL BE SUBJECT TO APPROVAL BY DISTRICT.
19. CONSTRUCTION AREA OVERLAPS ACTIVE SERVICE AREAS NECESSARY FOR THE NORMAL DAILY OPERATION OF THE SCHOOL. CONTRACTOR SHALL AT ALL TIMES MAINTAIN AND ALLOW ACCESS ON SITE FOR EMERGENCY VEHICLES, TRASH COLLECTION, LANDSCAPE, GENERAL SCHOOL MAINTENANCE AND FOOD SERVICE DELIVERY. CONTRACTOR SHALL COORDINATE CLOSELY WITH DISTRICT FOR ALL NECESSARY ACCESS.
20. CONTRACTOR SHALL PROVIDE AND MAINTAIN FOR THE DURATION OF THE CONTRACT OPAQUE VINYL SCREENS (TARP OR SIMILAR) PROPERLY SECURED TO ALL TEMPORARY CONSTRUCTION FENCING AND GATES AS WELL AS ALL EXISTING FENCING THAT DEFINES A PERIMETER OF ANY DESIGNATED CONSTRUCTION AREA. SCREENING SHALL BE MINIMUM 6'-0" HIGH AND SHALL BE BLACK, GREEN OR TAN IN COLOR.
21. DUE TO THE ON-GOING OPERATION OF THE ACTIVE SCHOOL SITE DURING CONSTRUCTION, AS WELL AS THE UNIQUE CONSTRAINTS OF THE CONSTRUCTION AREA, CONTRACTOR SHALL BE AWARE THAT THE VEHICULAR DRIVES, ACCESS LANES AND PARKING SHALL BE SHARED AND SHALL NOT SCHEDULE ANY DELIVERIES AS WELL AS SUSPEND CONSTRUCTION TRAFFIC ENTERING AND EXISTING PREMISES DURING THE PERIODS REQUIRED FOR STUDENT DROP-OFF AND PICK-UP. CONTRACTOR SHALL COORDINATE WITH DISTRICT FOR ALL TIME OFF OPERATION FOR THE SITE.
22. FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH LOCAL AGENCY HAVING JURISDICTION FOR ALL, FUGITIVE DUST AND SHALL BE RESPONSIBLE FOR ALL PENALTIES, FINES, ETC. IF THE PROJECT SHOULD BE CITED FOR VIOLATIONS.
23. DUE TO THE SITE CONSTRAINTS OF THE ACTIVE SCHOOL SITE, THE CONTRACTOR MAY BE REQUIRED TO STAGE IN VARIOUS AVAILABLE AREAS ON SITE AND MAY BE REQUIRED TO MOVE OR RELOCATE STAGING DURING THE COURSE OF CONSTRUCTION IN ORDER TO ACCOMMODATE CONSTRUCTION AND SCHEDULE. CONTRACTOR SHALL FACTOR IN ALL NECESSARY MEASURES TO ACCOMMODATE THE TIMELY COMPLETION OF THIS CONTRACT.
24. CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICE TO ACTIVE SCHOOL SITE WITHOUT EXPRESSED PERMISSION AND PRIOR SCHEDULING WITH DISTRICT.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CONTRACTOR SUBMITTALS OF DOCUMENTS TO THE DSA BOX.
26. CONTRACTOR MAY UTILIZE EXISTING ELECTRICAL SERVICE IN YARD FOR TEMPORARY POWER. ALL TEMPORARY POWER INSTALLATION SHALL ADHERE TO APPLICABLE CODES.
27. WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE. (PART 1, TITLE 24, C.C.R.)
28. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
29. TITLE 24, PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.
30. SUBMIT RFI'S TO DESIGN TEAM IN CASE OF INCONSISTENCIES BETWEEN APPROVED DRAWINGS AND APPROVED SPECIFICATIONS IN THE DESCRIPTIONS OF WORK TO BE DONE, EQUIPMENT TO BE PROVIDED OR MATERIAL TO BE USED. IT SHALL BE THAT THE MORE STRINGENT, THE MORE RESTRICTIVE, THE HIGHER QUALITY, AND THE GREATER QUANTITY OF WORK SHALL APPLY. SUBMIT REVISED DRAWINGS OR SPECIFICATIONS AS RESULT OF SUCH RFI'S TO DSA VIA CCD'S IF REQUIRED BY IR A-6.
31. ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
32. THE PROJECT INSPECTION (PI) SHALL WITNESS AND VERIFY GROUNDING.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFERENCE: SECTION 4-317 (C), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

GENERAL NOTES (CONTINUED)

33. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
34. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
35. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
36. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
37. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
38. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
39. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

ABBREVIATIONS

ABV	above
ACC	access
ADJ	adjacent
AFD	automatic fire damper
AGG	aggregate
A/C	air conditioning
ALT	alternate
ALUM	aluminum
AB	anchor bolt
AC	asphaltic concrete
AUTO	automatic
BEL	below
BET	between
BG	below grade
BLKG	blocking
BD	board
BOT	bottom
BLDG	building
CAB	cabinet
CATV	cable television
CB	catch basin
CLG	ceiling
CHBD	chalkboard
CLR	clear
COL	column
COMP	composition (composite)
CONC	concrete
CMU	concrete masonry unit
CONN	connection
CONST	construction
CONT	continuous (continue)
CONTR	contractor
CUST	custodian
CF	curb face
CT	ceramic tile
DL	dead load
DEMO	demolish (demolition)
DET(DTL)	detail
DIAG	diagonal
DIA	diameter
DIM	dimension
DS	downspout
DWG	drawing
DF	drinking fountain
E	east
ELEC	electric(al)
EWC	electric water cooler
GV	gate valve
GL	glass, glazing
HDWE	hardware
HDWD	hardwood
HDR	header
HVAC	heating/ ventilating/ air conditioning
HGT	height
HC	hollow core
HM	hollow metal
HP	horsepower
HORIZ	horizontal
HB	hose bibb
INCL	include(d), (ing)
ID	inside diameter
INSUL	insulat(e), (ion)
INT	interior
JT	joint
KO	knockout
LAB	laboratory
LB	lag bolt
LAM	laminate
LAV	lavatory
LH	left hand
L	length
LGT	light
LTL	lintel
LL	live load
LVR	louver
MB	machine bolt
MH	manhole
MFR	manufature(er)
MO	masonry opening
EL	elevation
EQ	equal
EXH	exhaust
EXIST/(E)	existing
EB	expansion bolt
EXP	exposed
EXT	exterior
PL	plate
PLYWD	plywood
PT	point
PVC	polyvinyl chloride
PSF	pounds per square foot
W/O	without
WI	wrought iron
WIC	Woodwork Institute of CA
FUT	future
GA	gauge
GALV	galvanized
GC	general contractor
GI	galvanized iron
FOC	face of concrete
FOM	face of masonry
FOS	face of stud
FF	factory finish
FIN	finish(ed)
FFE	finished floor elevation
FA	fire alarm
FE	fire extinguisher
FEC	fire extinguisher cabinet
FHMS	flathead machine screw
FHWS	flathead wood screw
FLR	floor(ing)
FCO	floor cleanout
FD	floor drain
FL	flow line
FLUOR	fluorescent
FTG	footing
FND	foundation
FR	fram(ed), (ing)
FBO	furnished by others
MTL	material
MAX	maximum
MECH	mechanical
MED	medium
MET	metal
MIN	minimum
MISC	miscellaneous
MOD	modular
MULL	mullion
NAT	natural
NR	noise reduction
NRC	noise reduction coefficient
NOM	nominal
N	north
(N)	new
NIC	not in contract
NTS	not to scale
OC	on center
OPG	opening
OPP	opposite
OD	outside diameter
OVHD	overhead
PNL	panel
PVMT	pavement
PLAS	plaster
PLAM	plastic laminate
GLB	glue lam beam
GYPBD	gypsum board
PSI	pounds per square inch
PL	property line
R	radius
REFL	reflect(ed), (ive), (or)
REG	register
RCP	reinforced conc. pipe
RA	return air
REV	revision, revised
RH	right hand
RD	roof drain
RM	room
RO	rough opening
QT	quarry tile
SCHED	schedule
SIM	similar
SC	solid core
S	south
SPK	speaker
SPEC	specification
SQ	square
S/S	stainless steel
STD	standard
STA	station
STL	steel
STO	storage
SD	storm drain
STRUCT	structural
SUSP	suspended
TKBD	tackboard
TEL	telephone
TV	television
THK	thickness
T&G	tongue & groove
TOW	top of wall
TYP	typical
UR	urinal
VERT	vertical
VCT	vinyl comp tile
WSCT	wainscot
WC	water closet
WP	water proofing
WR	water repellent
WWF	welded wire fabric
W	west
WH	water heater
WIND	window
WG	wire glass
W/	with

SCOPE OF WORK

THE PROJECT SCOPE OF WORK CONSISTS OF THE FOLLOWING:

1) NEW STORAGE BUILDING WITH BLEACHER SEATING AND SHADE STRUCTURE ABOVE

SYMBOL LEGEND

SHEET INDEX (26 TOTAL SHEETS)

APPLICABLE CODES

PART 1 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
PART 3 2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R.
(2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA.)
PART 4 2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO.)
PART 5 2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO.)
PART 6 2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 9 2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.
(2021 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10 2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.
(2021 INTERNATIONAL EXISTING BUILDINGS CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 11 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), TITLE 24 C.C.R.
PART 12 2022 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

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 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2023 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2022 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2022 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEM (CA AMENDED)	2022 EDITION
UL300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2019 (R2010)
UL464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2016 EDITION
UL521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 (R2012)
ICC300	STANDARD FOR BLEACHING, 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 (CFC) CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CA. AMENDMENTS TO THE NFPA STANDARDS.

* ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECAME 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 1, 2013 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023.

BUILDING CODE ANALYSIS

1. OCCUPANCY CLASSIFICATION: S-2

2. CONSTRUCTION TYPE: II NON-RATED

3.TOTAL AREA OF EACH FLOOR (TABLE 506.2-BASIC ALLOWABLE AREA)
A. BUILDING AREA: 624 SQUARE FEET (1ST FLOOR STORAGE)
1,046 SQUARE FEET (2ND FLOOR BLEACHER)
B. AUTOMATIC FIRE SPRINKLERS: NS
C. CANOPIES/OVERHANGS: 918 SQUARE FEET (OVER 2ND FLOOR BLEACHERS)

D. TOTAL: 2,588 SQUARE FEET

ALLOWABLE AREA PER TABLE 506.2: 26,000

2,588 SF = OK

FEMA FLOOD ZONE

MAP NUMBER:	06037C1329F
EFFECTIVE DATE:	9/26/2008
FLOOD ZONE DESIGNATION:	X

DEFERRED APPROVAL

- OUTDOOR BLEACHERS

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. 03-123187 File No. 19-H4)

THESE DRAWINGS MARKED WITH ▨ AND SPECIFICATIONS, OR THE ATTACHED LIST OF ITEMS HAVE BEEN PREPARED BY 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 OR REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THIS CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317(b))

I CERTIFY THAT THIS DRAWINGS MARKED ▨ ON SHEET INDEX:

☒ IS IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND

☒ HAS BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

[signature]
SIGNATURE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

04/14/2023
DATE

SCOTT F. GAUDINEER
PRINT NAME

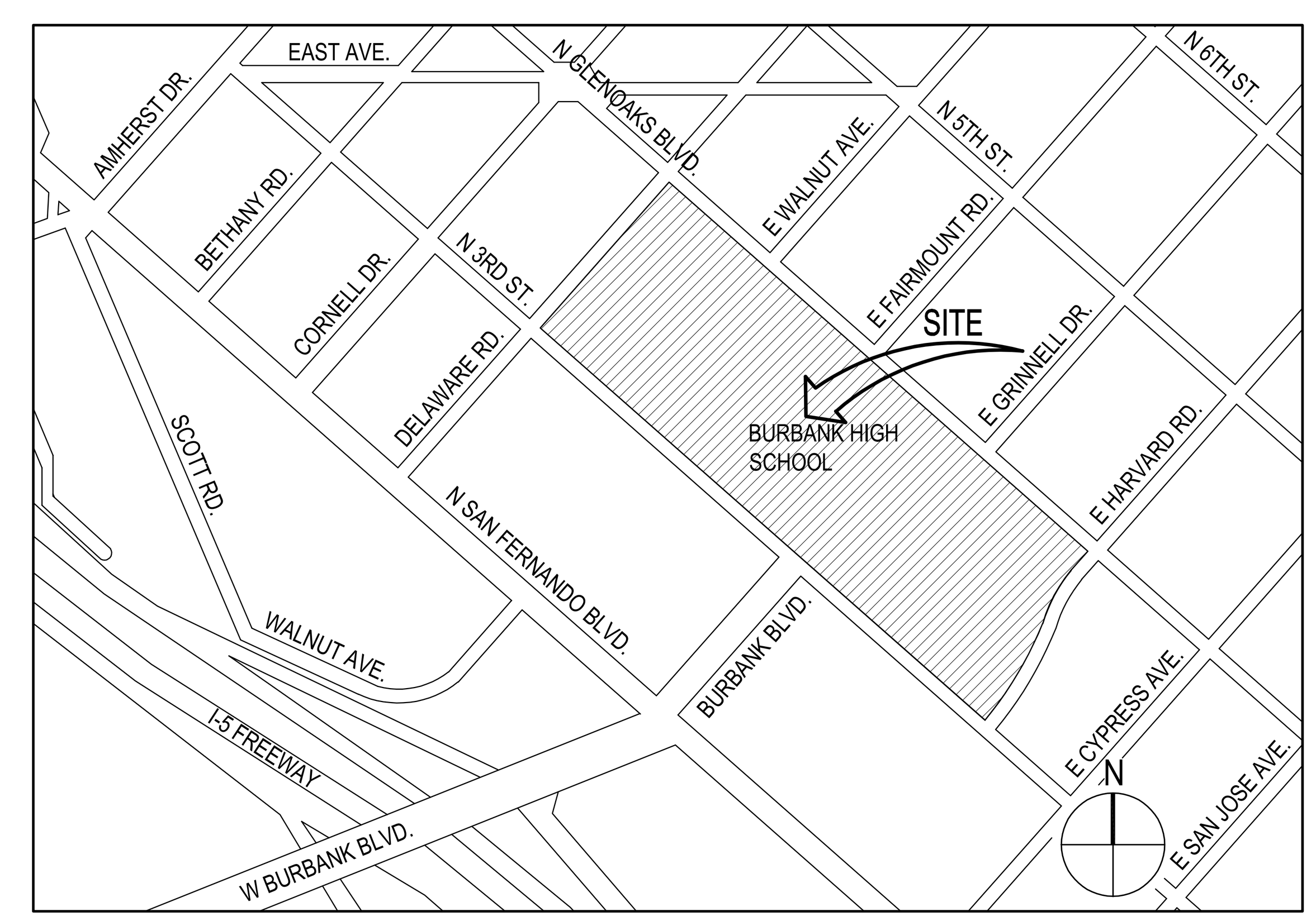
C-14211
LICENSE NUMBER

08/31/2025
EXPIRATION DATE

CERTIFICATION

THIS PROJECT A#03-123187; CANNOT BE CERTIFIED UNTIL THE FOLLOWING PROJECT CONTAINING REQUIRED ACCESSIBLE COMPONENTS IS CERTIFIED:
-A#03-122682 (ACCESSIBLE ROUTE OF TRAVEL, ACCESSIBLE PARKING, SIGNAGE & ACCESSIBLE DRINKING FOUNTAIN)

VICINITY MAP



ARCHITECT

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Email: sgaudineer@flewelling-moody.com

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Email: ocosta@costaassoc.com

ELECTRICAL ENGINEER

PARVIZ EBRAHIMI, INC.
25101 The Old Road
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TEL: (818) 991-7371
Contact: Dana Tonai
Email: dana.peinc@earthlink.net

OWNER

BURBANK UNIFIED SCHOOL DISTRICT
510 S. Shelton Street,
Burbank, CA 91506
TEL: (818) 729-4400
Contact: Larry Cross
Email: LarryCross@burbankusd.org

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN. 64337-111 APPL. 03-123187

FLEWELLING & MOODY
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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
SCOTT F. GAUDINEER
C-14211
Ren. 08/31/2025
STATE OF CALIFORNIA

CONSULTANT

Drawn by

Checked by

Revisions

No.	Date	Description
-	-	-

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

902 NORTH 3RD STREET
BURBANK, CA 91502

TITLE SHEET

Job No.
2986.0100

Date
04-14-2023

T0.01

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	BURBANK UNIFIED SCHOOL DISTRICT
Project Name/School:	BURBANK HIGH SCHOOL AQUATIC CENTER STORAGE BUILDING
Project Address:	902 NORTH 3RD STREET BURBANK, CA 91502

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

	CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✔	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✔	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✔	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✔	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

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

Accepted by: ______________________ Title: ______________________

Signature: ______________________ Date: ______________________

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: ______________________ Date: ______________________

CITY OF BURBANK Water and Power Since 1913

Hydrant Flow Data

10/18/2022

7803

CUSTOMER INFORMATION

PROJECT SITE: *BURBANK HIGH SCHOOL* ZONING: *R4*

STEVE REYNA (Agent name) — *323-543-8300* (Agent phone number)

FLEWELLING & MOODY (Company)

815 COLORADO BLVD, SUITE 200 (Company address)

LOS ANGELES (City) — *CA* (State) — *90041* (Zip code)

323-543-8300 (Company phone number) — SREYNA@FLEWELLING-MOODY.COM (FAX number or e-mail address)

FIRE-FLOW INFORMATION

The existing water main is a(n) *12"* (Size) inch diameter *DI* (Type) main

in *N 3RD ST* (Street name)

Static pressure is *100-120* psi (During normal pump and tank operating conditions with average demand on the system)

Hydrant *528* (Hydrant No.) is *460.3'* (Distance) *WEST* (Direction)

of *BURBANK BLVD.* (Nearest cross street)

on *N 3RD ST* (Street name)

Per previous flow test approximate fire flow available from this hydrant is *10,950* GPM at 20 PSI residual.

Per hydraulic modeling,approximate fire flow available from the mainline is ______ GPM at 20 PSI residual.

Existing Meter Size & Flow Rate

Samantha Miranda (BWP-Water Division Staff Signature)

10/19/2022 (Date)

LEGEND

- AREA OF WORK
- (E) BUILDING
- (E) TRACK (RUBBERIZED)
- LANDSCAPE
- (E) 20'-0" CLEAR FIRE ACCESS LANE A# 03-105549. CONCRETE PAVEMENT CAPABLE OF SUPPORTING 75,000 LB. VEHICLE LOAD WITH MINIMUM 13'-6" VERTICAL CLEARANCE
- (E) ACCESSIBLE RESTROOMS
- (E) DF — (E) ACCESSIBLE HI-LOW DRINKING FOUNTAIN
- (E) FIRE HYDRANT
- POT — ACCESSIBLE PATH OF TRAVEL
- E.R. — EGRESS ROUTE

FIRE FLOW & HYDRANTS

PER 2022 CFC TABLE C102.1

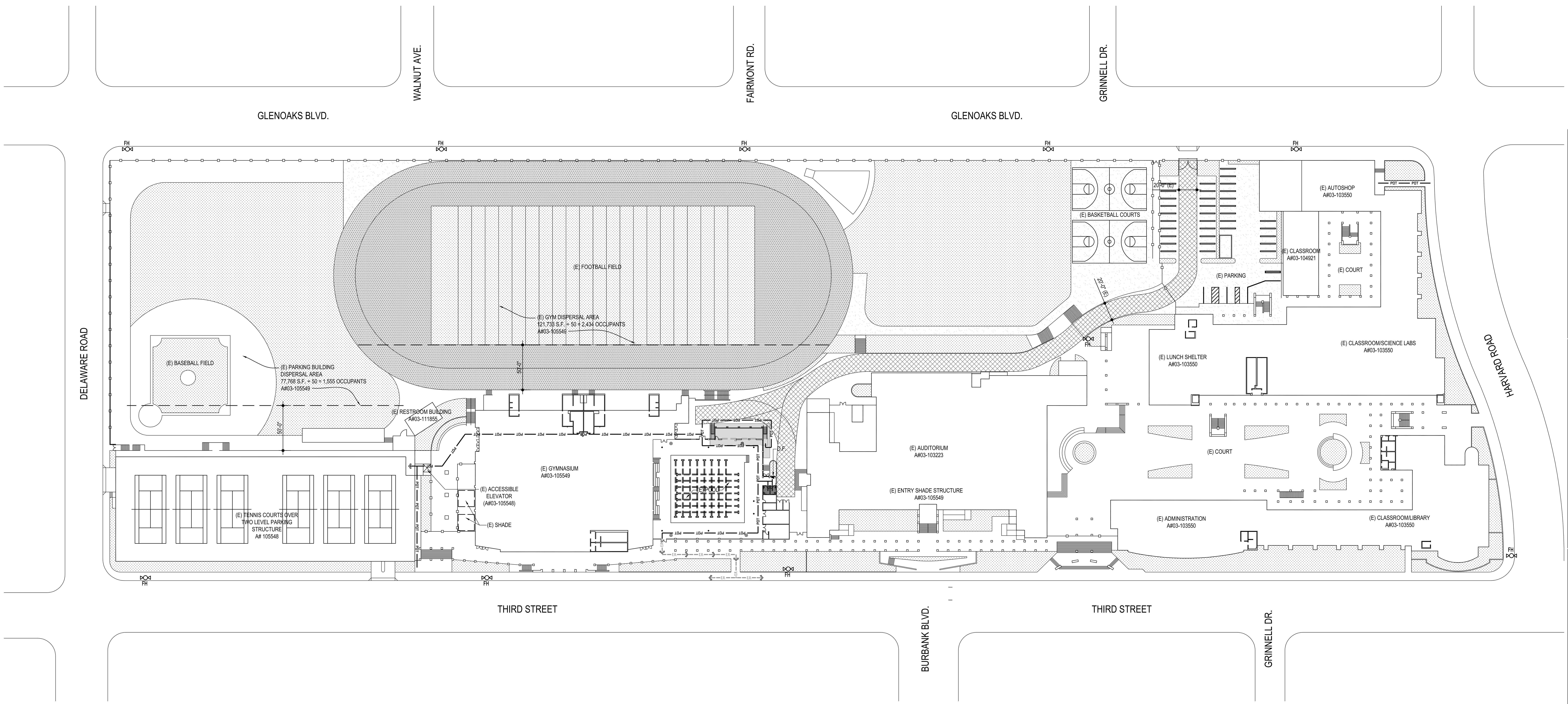
STORAGE BUILDING = 623 S.F.

REQUIRED FIRE FLOW AND DURATION FOR TYPE IIA CONSTRUCTION OF 623 S.F. = 1,500 GPM FOR 2 HRS.

PER 2022 CFC TABLE C102.1
NUMBER AND DISTRIBUTION OF FIRE HYDRANTS FOR 1,500 GPM
NUMBER OF REQUIRED HYDRANTS = (1) WITH 500 FEET MAXIMUM
DISTANCE TO ANY POINT OF STRUCTURE = 250 FEET

NUMBER OF (E) HYDRANTS = 10

NUMBER OF (N) HYDRANTS = 0



FIRE ACCESS SITE PLAN
SCALE: 1" = 50'-0"

1 / A1.00

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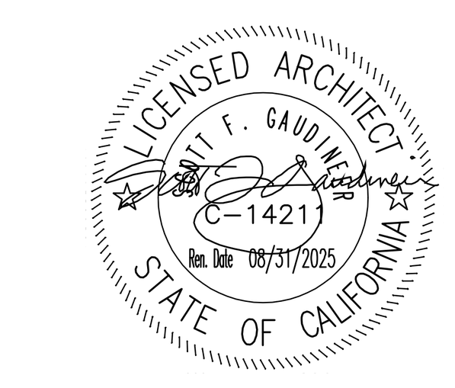

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No.	Date	Description

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL NEW STORAGE BUILDING W/ BLEACHER SEATING

902 NORTH 3RD STREET BURBANK, CA 91502

FIRE ACCESS SITE PLAN

Job No. 2986.0100

Date 04-14-2023

A1.00

F:\Project\2986-0100-BurbankUSD-PoolEqpmtBldg\DWG\2986-0100-A1-00.dwg; Last Saved By: sreyna - Sep 15, 2023 - 11:45am Last Printed By: SREYNA - Oct 12, 2023, 4:41pm;

GENERAL NOTES

"PATH OF TRAVEL (P.O.T.) AS INDICATED IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. P.O.T. IS A MINIMUM 48" WIDE. THE SURFACE SHALL BE FIRM, STABLE AND SLIP RESISTANT. PASSING SPACES (11B-405.5.3) AT LEAST 60" X 60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS AT INTERVALS OF 400' MAXIMUM (11B-403.7) SLOPE SHALL NOT EXCEED 2% CROSS-SLOPE AND 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL (11B-401.1) SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (11B-405) THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDING. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS AND OBJECTS PROTRUDING GREATER THAN 4" FROM A WALL, BETWEEN 27" TO 80" ABOVE FINISHED GRADE. ARCHITECT HAS VERIFIED THAT NO BARRIERS EXIST IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FIND OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

"EGRESS ROUTE" (E.R.) AS INDICATED IS A BARRIER FREE EXIT ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (E.R.) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND OBSTRUCTIONS PROTRUDING GREATER THAN 4" FROM WALL AND MINIMUM 27" ABOVE FINISH GROUND OR FLOOR LEVEL (11B-307.2).

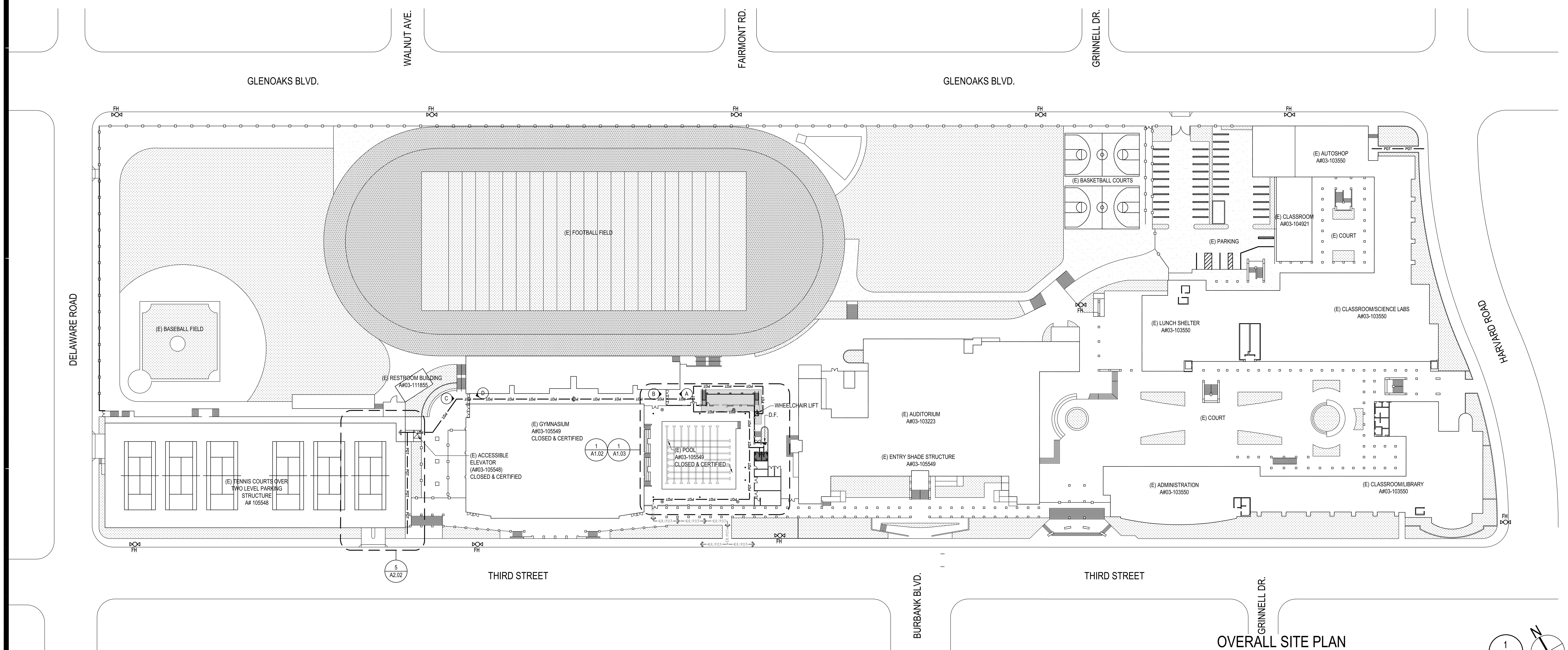
LEGEND

- AREA OF WORK
- (E) BUILDING
- (E) TRACK (RUBBERIZED)
- LANDSCAPE
- (E) ACCESSIBLE RESTROOMS
- (E) DF — (E) ACCESSIBLE HI-LOW DRINKING FOUNTAIN
- (E) FIRE HYDRANT
- P.O.T — ACCESSIBLE PATH OF TRAVEL-
- E.R./P.O.T — EGRESS ROUTE / PATH OF TRAVEL
- (X) — PHOTO REFERENCE - SEE DETAIL 13/A8.01

EXISTING PARKING RATIO

PER CBC 11B, SECTION 208.2, TABLE 11B-208.2

DSA #	STANDARD STALL	REQUIRED ACCESSIBLE STALL			PROVIDED ACCESSIBLE STALL			
		CAR	VAN	TOTAL	CAR	VAN	TOTAL	TOTAL
A03-111855	270	5	2	7	5	2	7	277



OVERALL SITE PLAN
SCALE : 1" = 50'-0"
1 / A1.01

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LICENSED ARCHITECT — SCOTT F. GAUDINEER — C-14211 — Ren. 06/31/2025 — STATE OF CALIFORNIA

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No.	Date	Description

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

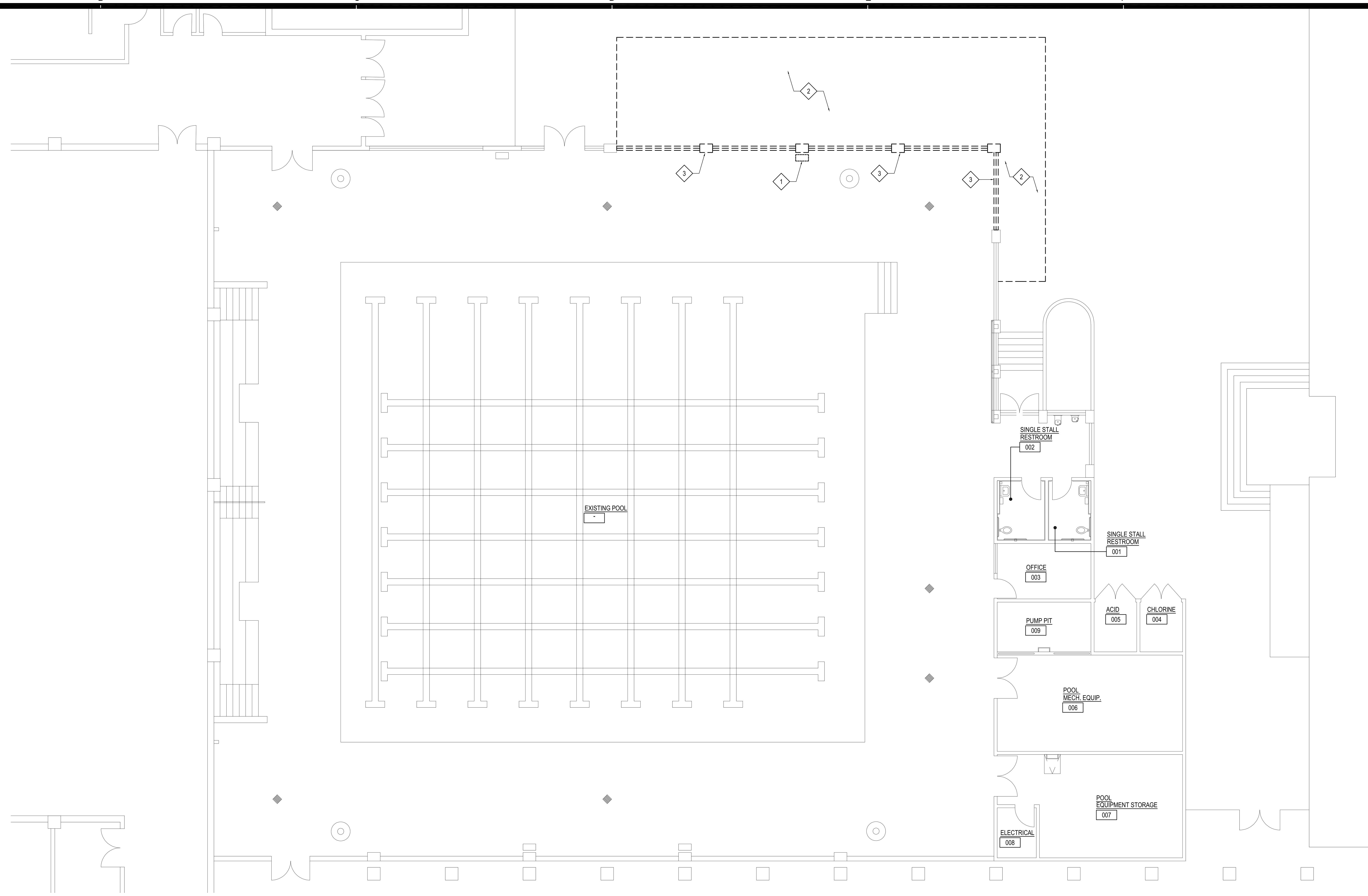
902 NORTH 3RD STREET
BURBANK, CA 91502

OVERALL SITE PLAN - ACCESSIBLE P.O.T., EGRESS ROUTE

Job No. 2986.0100

Date 04-14-2023

A1.01



ENLARGED 1ST FLOOR DEMOLITION SITE PLAN

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

1 / A1.02

N

FLOOR PLAN DEMOLITION NOTES

1. PATCH AND REPAIR FLOOR AND WALLS AFFECTED BY DEMOLITION WORK. MATCH (E) ADJACENT MATERIAL, FINISH AND COLOR.
2. PROTECT IN PLACE ALL ITEMS NOT BEING DEMOLISHED OR REMOVED. G.C. SHALL PATCH, REPAIR, AND PAINT, OR REPLACE ALL ITEMS AND FINISHES AFFECTED BY DEMOLITION.
3. UNLESS SPECIFICALLY DETAILED AND SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, OR REMOVED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND AUTHORITY HAVING JURISDICTION.
4. G.C. SHALL COORDINATE ALL REQUIRED SCOPE OF WORK FOR ALL TRADES PRIOR TO COMMENCING WORK.
5. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

DEMOLITION LEGEND

- - - - ITEMS TO BE REMOVED AND/OR DEMOLISHED

(E) WALL TO REMAIN

(E) DOOR AND HARDWARE TO REMAIN

DEMOLITION PLAN KEY NOTES

1. REMOVE (E) SPEAKERS IN THEIR ENTIRETY
2. DEMO (E) CONCRETE AND CONCRETE CURB IN ITS ENTIRETY. DEMO TO NEAREST EXPANSION/CONTROL JOINT TO ACCOMMODATE (N) STORAGE BUILDING, FOUNDATION, AND ACCESSIBLE WHEELCHAIR LIFT
3. DEMO (E) CONCRETE WALL, CONCRETE POSTS, STEEL FENCE, AND FOOTINGS IN THEIR ENTIRETY TO ACCOMMODATE NEW STORAGE BUILDING

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BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

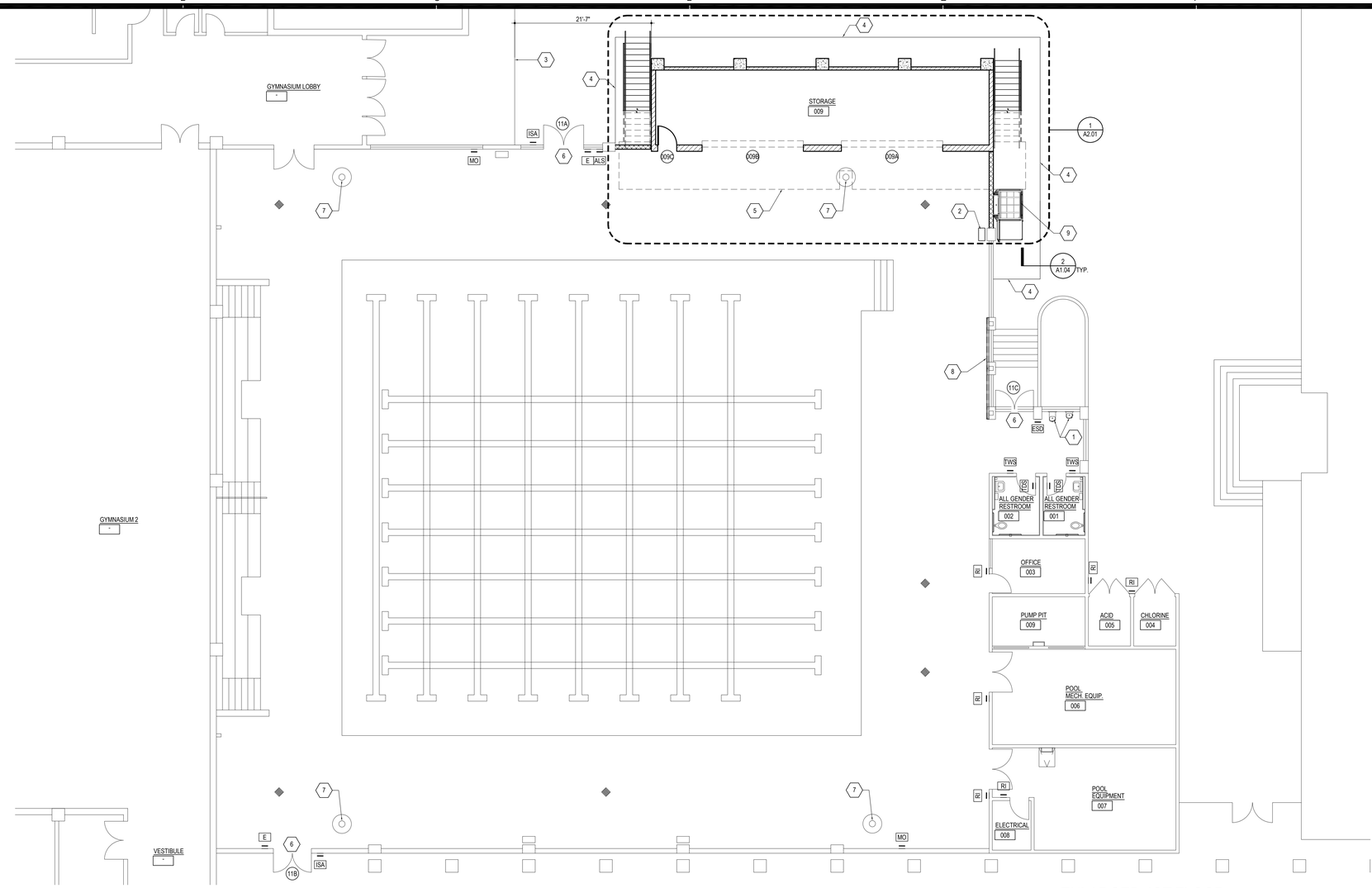
902 NORTH 3RD STREET
BURBANK, CA 91502

ENLARGED DEMOLITION SITE PLAN

Job No. 2986.0100

Date 04-14-2023

A1.02



ENLARGED 1ST FLOOR RECONSTRUCTION SITE PLAN

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

1 A1.03

EXITING ANALYSIS AT POOL AREA

A. SWIMMING POOL
- AREA 6,150 S.F.
- LOAD FACTOR 50
- MAX. OCCUPANT LOAD 6,150/50 = 123

B. DECK
- AREA 6,831
- LOAD FACTOR 15
- MAX. OCCUPANT LOAD 6,831/15 = 423

C. AREA WITH FIXED SEATS
- (E) BLEACHER CAPACITY 105

D. TOTAL OCCUPANT LOAD
423 + 105 = 528

MOST RESTRICTIVE OCCUPANT LOAD: 528

E. OCCUPANT LOAD 528
- NUMBER OF EXITS REQUIRED (1006.3.2) 3

EXISTING GATE SCHEDULE

GATE NO.	PROVIDED GATE WIDTH	OCC. LOAD	EGRESS PER OCC. REQUIRED	CALCULATIONS	REMARKS
11A	6'-0" or 72"	528	.2"	528/3 = 174	OK
11B				174 x .2 = 34.8"	OK
11C				34.8" < 72"	OK

FLOOR PLAN RECONSTRUCTION NOTES

1. PATCH, REPAIR, AND PAINT ALL AFFECTED EXISTING FINISHES.
2. PATCH & REPAIR (E) FLOORING AND WALLS AFFECTED BY DEMOLITION TO MATCH (E) ADJACENT FINISH AND COLOR.
3. REFER TO STRUCTURAL AND AQUATIC DESIGN CORP. DRAWINGS FOR ADDITIONAL REQUIREMENTS.

RECONSTRUCTION LEGEND

- (E) WALL TO REMAIN
- (E) DOOR AND HARDWARE TO REMAIN
- F.E. (E) FIRE EXTINGUISHER TO REMAIN
- (E) ELECTRICAL PANEL TO REMAIN
- (N) CONCRETE WALL
- (N) CMU WALL
- 100 DOOR TYPE, SEE DOOR SCHEDULE ON SHEET A7.01
- RI (E) TACTILE "ROOM IDENTIFICATION" SIGN. SEE DTL. 7/A8.01 (A# 03-122682)
- E (E) TACTILE "EXIT" SIGN. SEE DTL. 8/A8.01 (A# 03-122682)
- ER (E) TACTILE "EXIT ROUTE" SIGN. SEE DTL. 10/A8.01 (A# 03-122682)
- MO (E) TACTILE "MAXIMUM OCCUPANCY" SIGN. SEE DTL. 4/A8.01 (A# 03-122682)
- ISA (E) TACTILE "INTERNATIONAL SYMBOL OF ACCESSIBILITY" SIGN. SEE DTL. 9/A8.01 (A# 03-122682)
- TDS (E) TACTILE "TOILET DOOR SIGN." SEE DTL. 3/A8.01 (A# 03-122682)
- TWS (E) TACTILE "TOILET WALL SIGN." SEE DTL. 6/A8.01 (A# 03-122682)
- ALS (E) TACTILE "ASSISTIVE LISTENING DEVICE" SEE DTL. 12/A8.01 (A# 03-122682)
- ESD (E) TACTILE "EXIT STAIR DOWN SIGN" SEE DTL. 11/A8.01 (A# 03-122682)

RECONSTRUCTION PLAN KEY NOTES

1. (E) HI-LO DRINKING FOUNTAIN. - SEE DTLS. 11/A1.04 FOR ADDITIONAL INFORMATION (A#03-105549)
2. WALL-MOUNTED SPEAKERS. 80" MIN. FROM F.F. TO BOTTOM OF SPEAKER
3. FACE OF GYMNASIUM BUILDING
4. CONCRETE SLAB TO MATCH EXISTING. - SEE DTLS. 1/A1.04 2/A1.04 FOR ADDITIONAL INFORMATION
5. (N) BLEACHER SEATING ABOVE (N) STORAGE
6. (E) ACCESSIBLE GATE. SEE TYP. ENLARGED ELEVATION DETAIL 12/A1.04 (A#03-105549)
7. (E) LIGHT POLE (A# 03-105549)
8. (E) DIGITAL LED SCORE BOARD (A# 03-105549)
9. (N) WHEELCHAIR LIFT. - SEE DTL. 13/A1.04 FOR ADDITIONAL INFORMATION

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BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

902 NORTH 3RD STREET
BURBANK, CA 91502

ENLARGED RECONSTRUCTION SITE PLAN

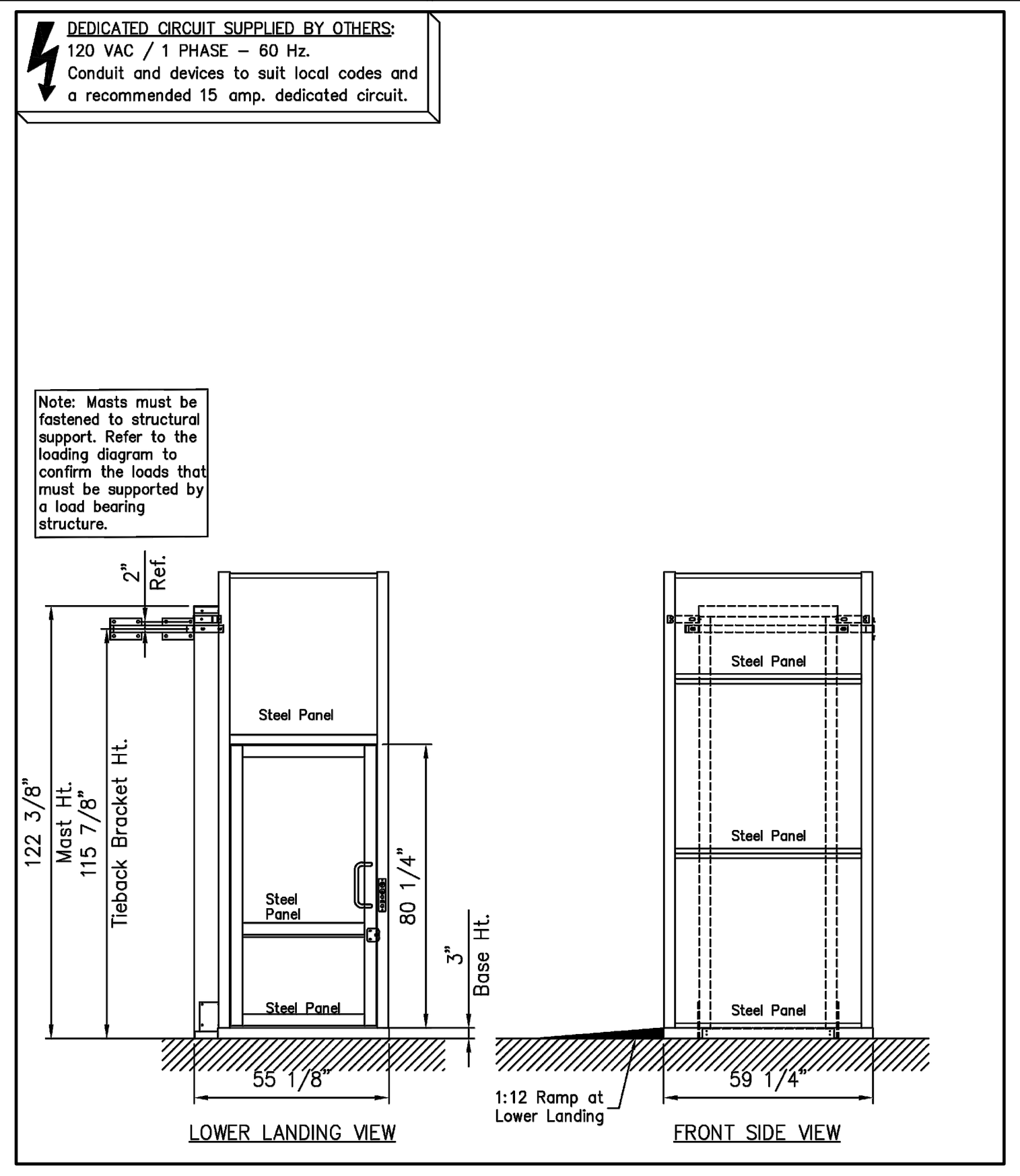
Job No. 2986.0100

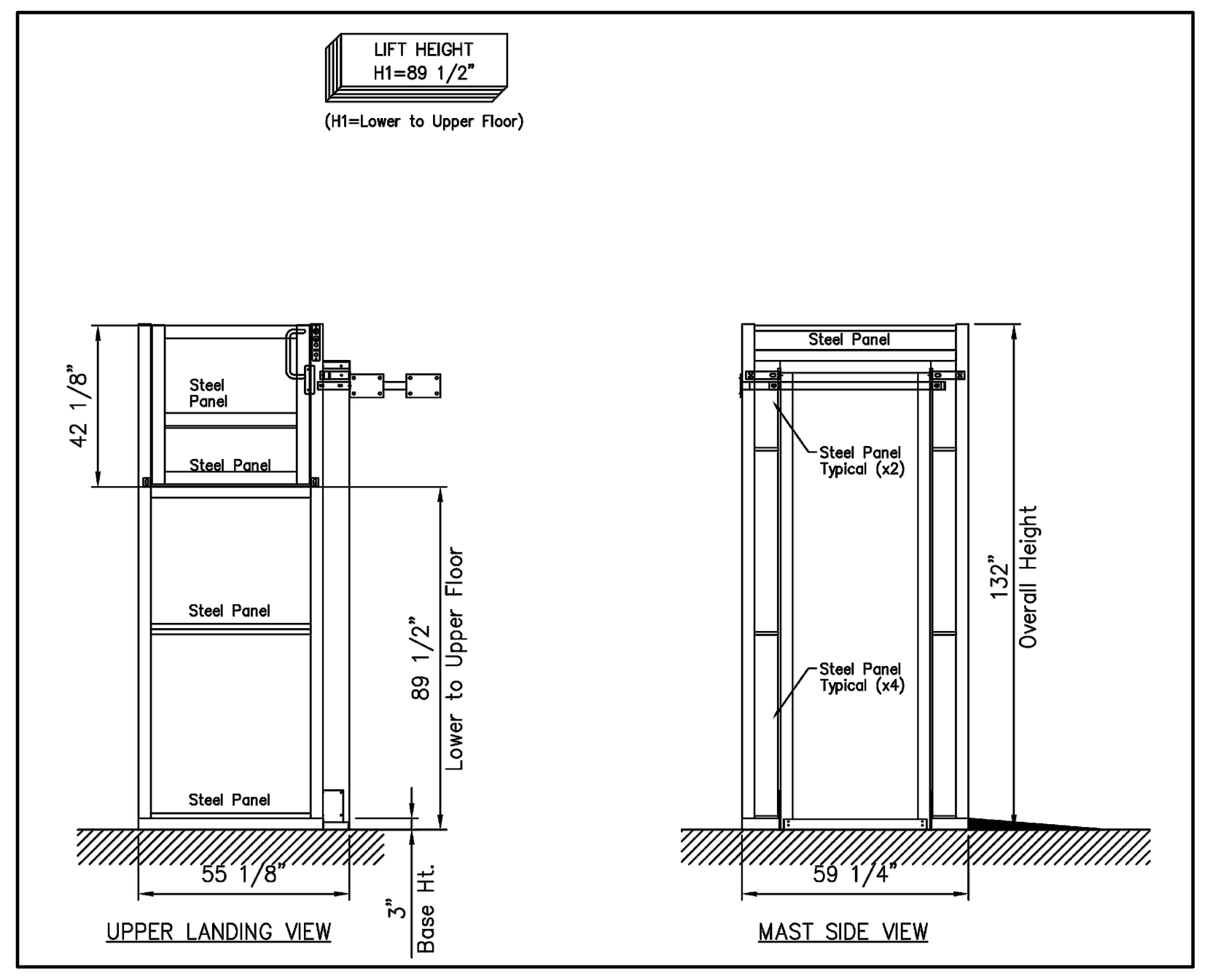
Date 04-14-2023

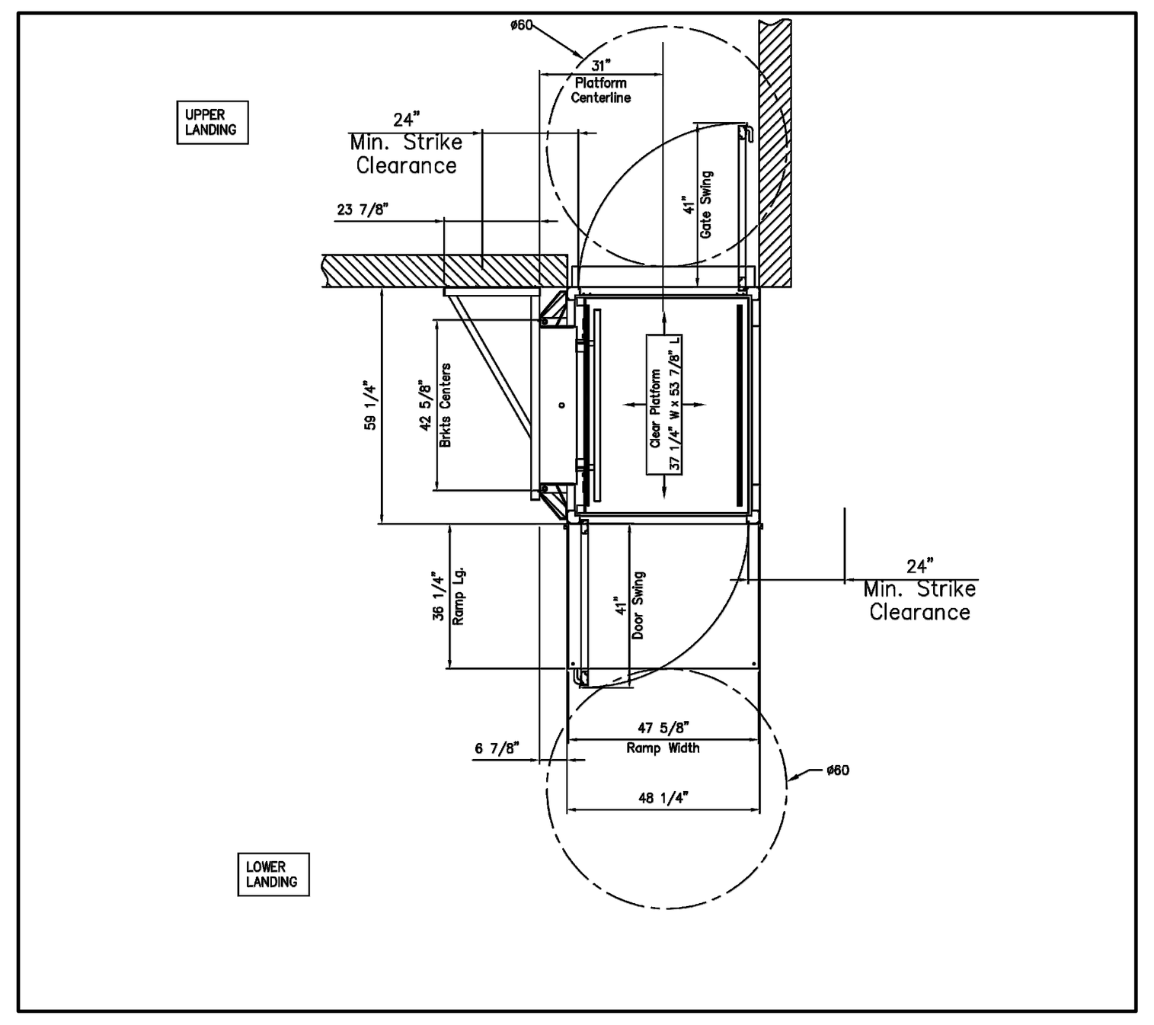
A1.03

GENESIS VERTICAL PLATFORM LIFT:

Code Reference:	ASME A18.1-2020 "Safety Standard for Platforms Lifts and Stairway Chairlifts"
General:	Color – Standard (Silver Moon powdered aluminium extrusions with 16 ga. galvanized steel panels powder coated Silver Moon) Outdoor Unit – Floor Mount (ramp required) Number of Stops – Two stop kit
Drive Mast:	Model – GVL-EN-96 Chain Hydraulic drive system c/w Continuous Mains Power with Auxiliary Battery Power System, Platform Emergency Lowering (shipped loose), Shoring Pin & Pressure Gauge Motor – 2.2 kW, (3.00 HP), 24 VDC Travel Speed – 340 kg @ 5.2 m/min [750 lb @ 17 ft/min] Power Supply – 120 VAC, single phase, 60 Hz, on a dedicated 15 amp. circuit Equipped with – Oil Recovery System, Pit Switch Kit
Controls:	Platform Controls – Push-Button (Tactile) Type c/w Illuminated Directional Buttons, Courtesy Lighting, Illuminated Round (push/pull) Emergency Stop Switch & Audible Alarm Lower Landing Call Station – Push-Button (Tactile) Frame Mount Upper Landing Call Station – Push-Button (Tactile) Frame Mount
Platform:	Size – Standard c/w grab rail, anti-skid deck and 1100mm [43 1/4"] high walls Configuration – Straight Through (180°) Exit/Entry Capacity – Maximum 340 kg [750 lb] operating load Equipped with – Auto-Dialer Phone (Outdoor)
Door/Gates:	Lower – 42" wide Steel Door c/w Mechanical Interlock, & Omaha Door Stop Upper – 42" wide wide Steel Gate c/w Powerlock 2000 Interlock, & Omaha Door Stop
Enclosure:	Panels – Steel Total Unit Weight – Approximately 567 kg [1250 lb] Lifting Height (H1) – 2273.3mm [89 1/2"] lower floor to upper floor Equipped with – Mezzanine Tie Back Y-Brace, 1:12 Ramp
Custom Note:	Hard Piped Hydro Overtravel Stops







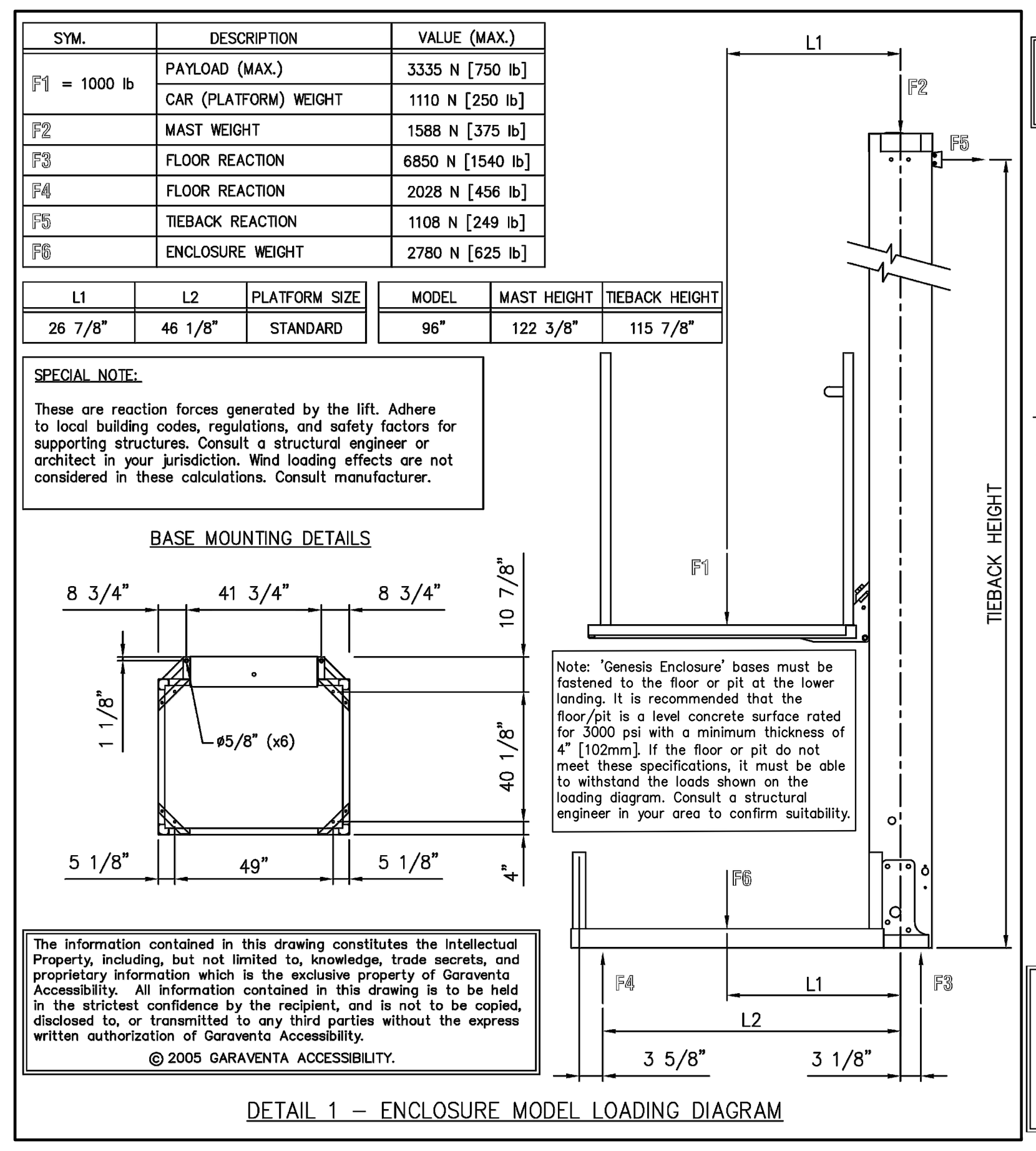
SYM.	DESCRIPTION	VALUE (MAX.)
F1 = 1000 lb	PAYLOAD (MAX.)	3335 N [750 lb]
	CAR (PLATFORM) WEIGHT	1110 N [250 lb]
F2	MAST WEIGHT	1588 N [375 lb]
F3	FLOOR REACTION	6850 N [1540 lb]
F4	FLOOR REACTION	2028 N [456 lb]
F5	TIEBACK REACTION	1108 N [249 lb]
F6	ENCLOSURE WEIGHT	2780 N [625 lb]

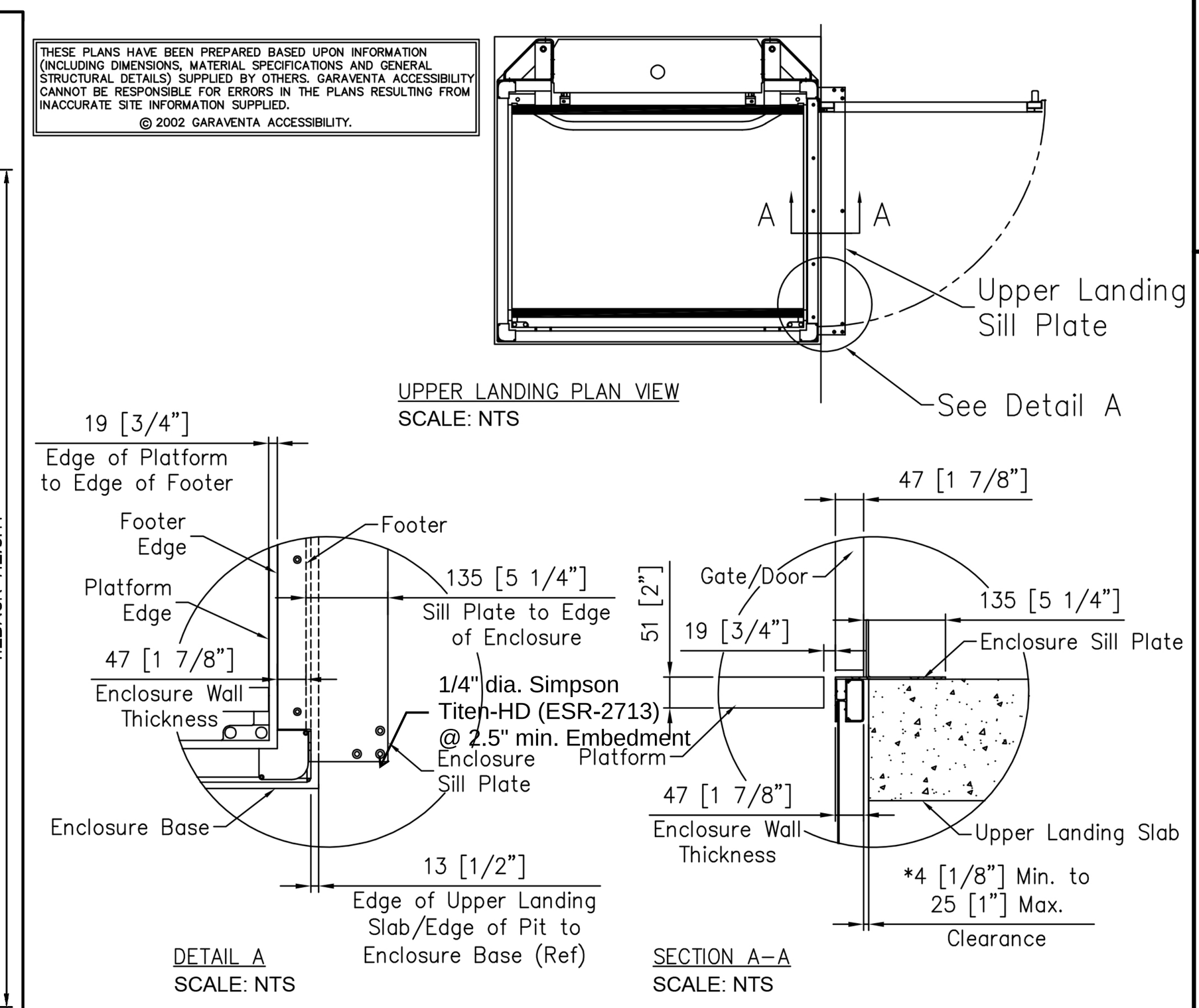
L1	L2	PLATFORM SIZE
26 7/8"	46 1/8"	STANDARD

MODEL	MAST HEIGHT	TIEBACK HEIGHT
96"	122 3/8"	115 7/8"

SPECIAL NOTE:

These are reaction forces generated by the lift. Adhere to local building codes, regulations, and safety factors for supporting structures. Consult a structural engineer or architect in your jurisdiction. Wind loading effects are not considered in these calculations. Consult manufacturer.





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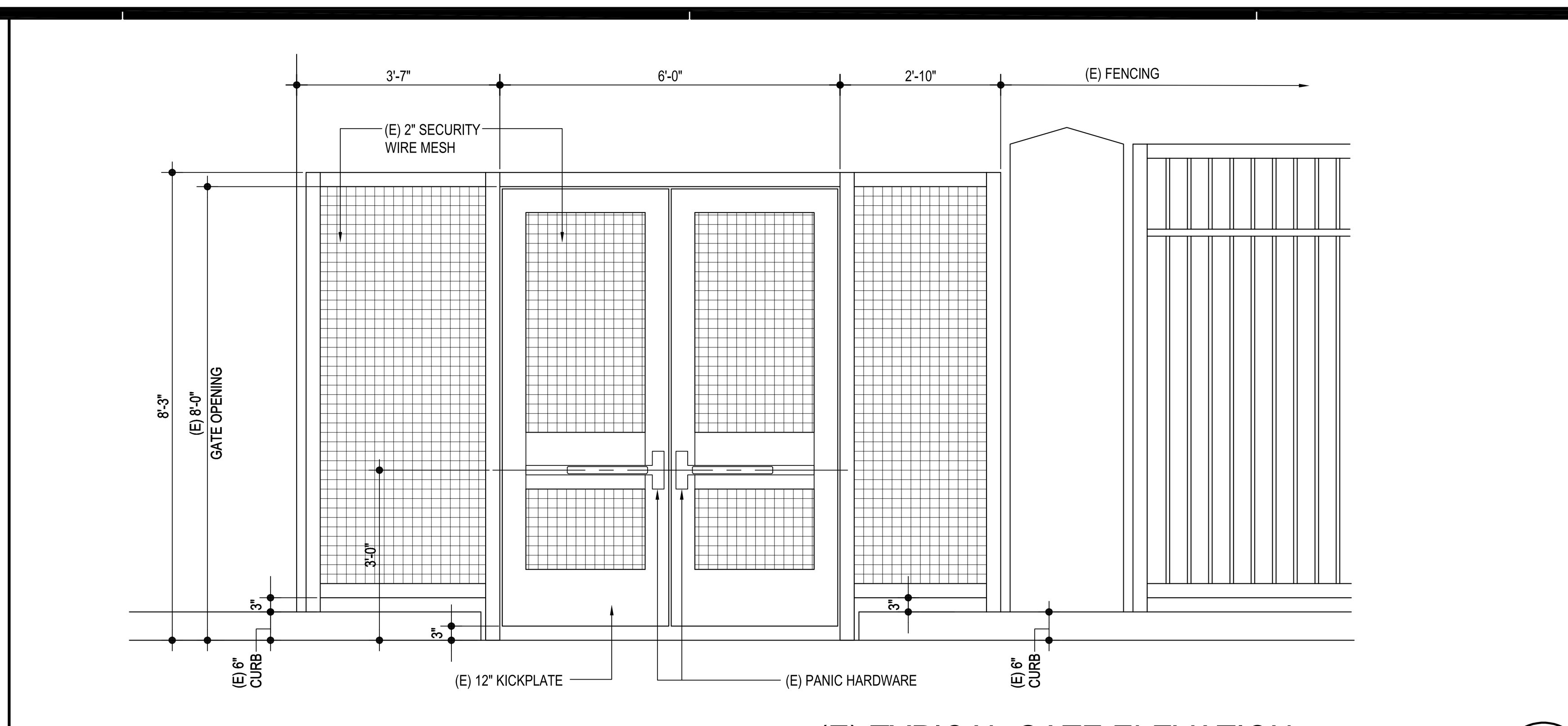
7505 – 134A STREET
SURREY, BC, CANADA V3W 7B3
PH: +1 604 594 0422
FAX: +1 604 594 9915
http://www.garaventa.ca

GENESIS REFERENCE DRAWING
Details of Upper Landing Transition
PAGE 1 OF 1
REFERENCE

WHEELCHAIR LIFT MANUFACTURER DRAWINGS

SCALE : 1/4"=1'–0"

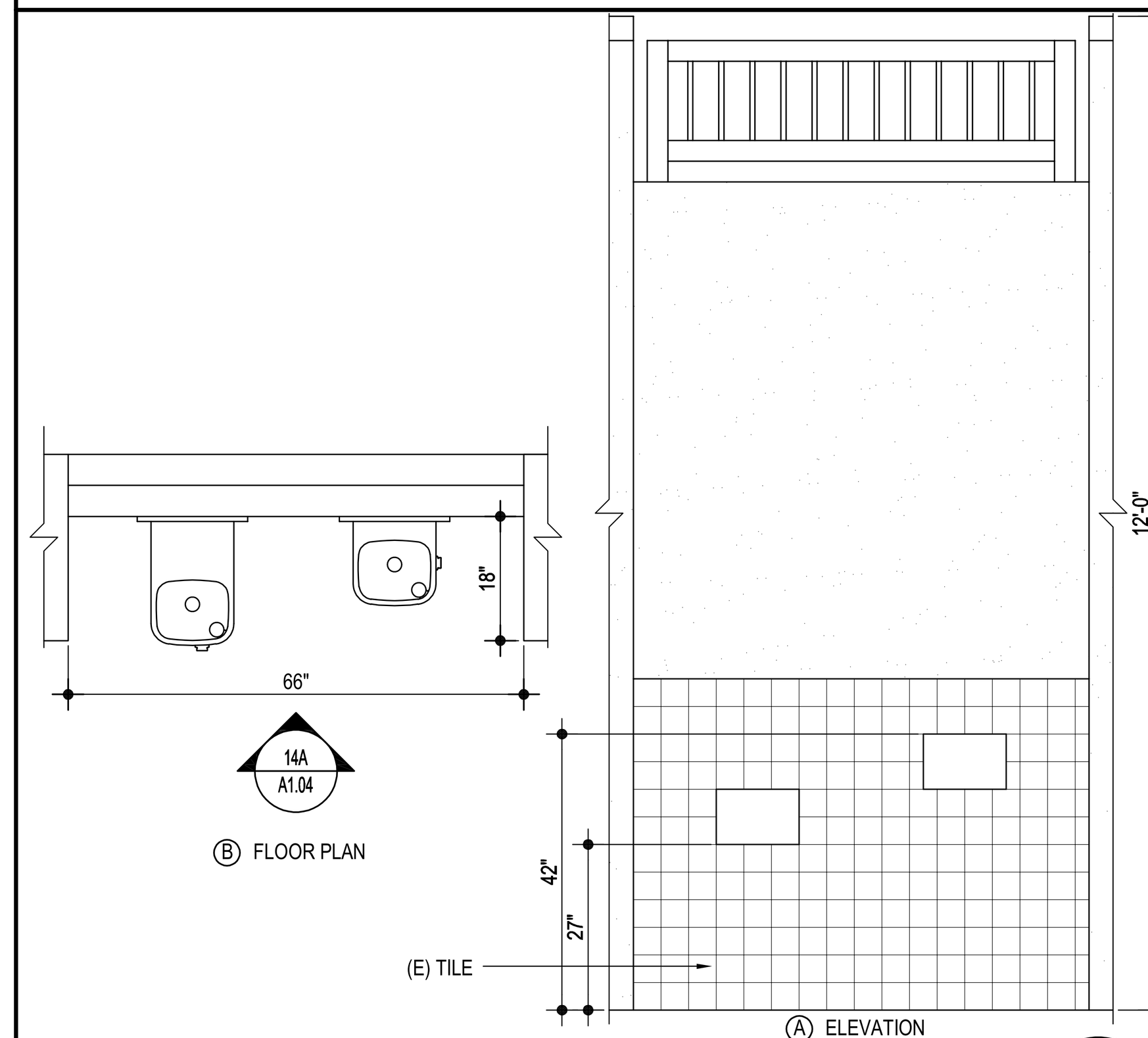
15 / A1.04



(E) TYPICAL GATE ELEVATION (FOR REFERENCE ONLY)

SCALE : 1/2"=1'-0"

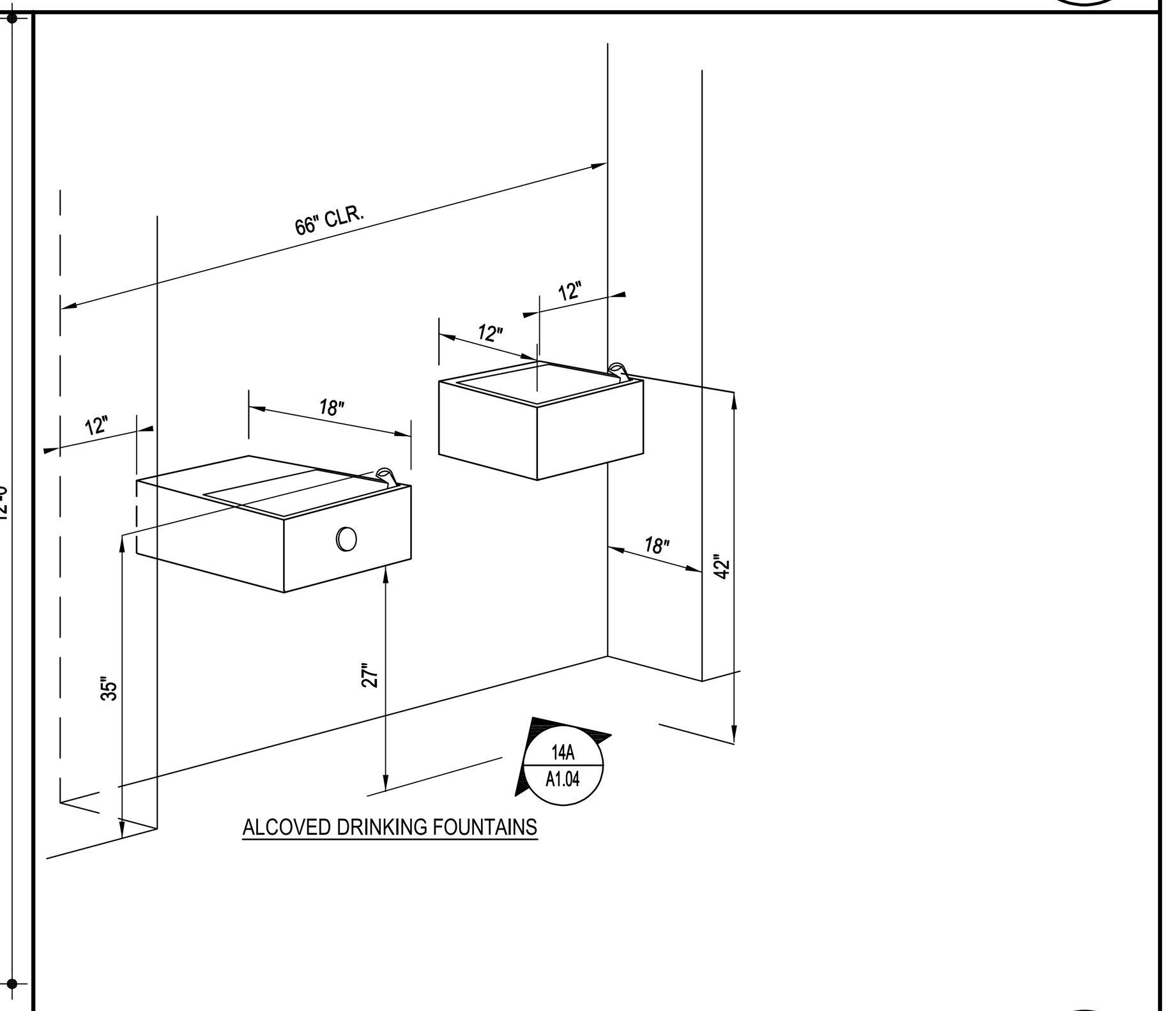
12 / A1.04



(E) DRINKING FOUNTAIN (FOR REFERENCE ONLY)

SCALE : 1/2"=1'-0"

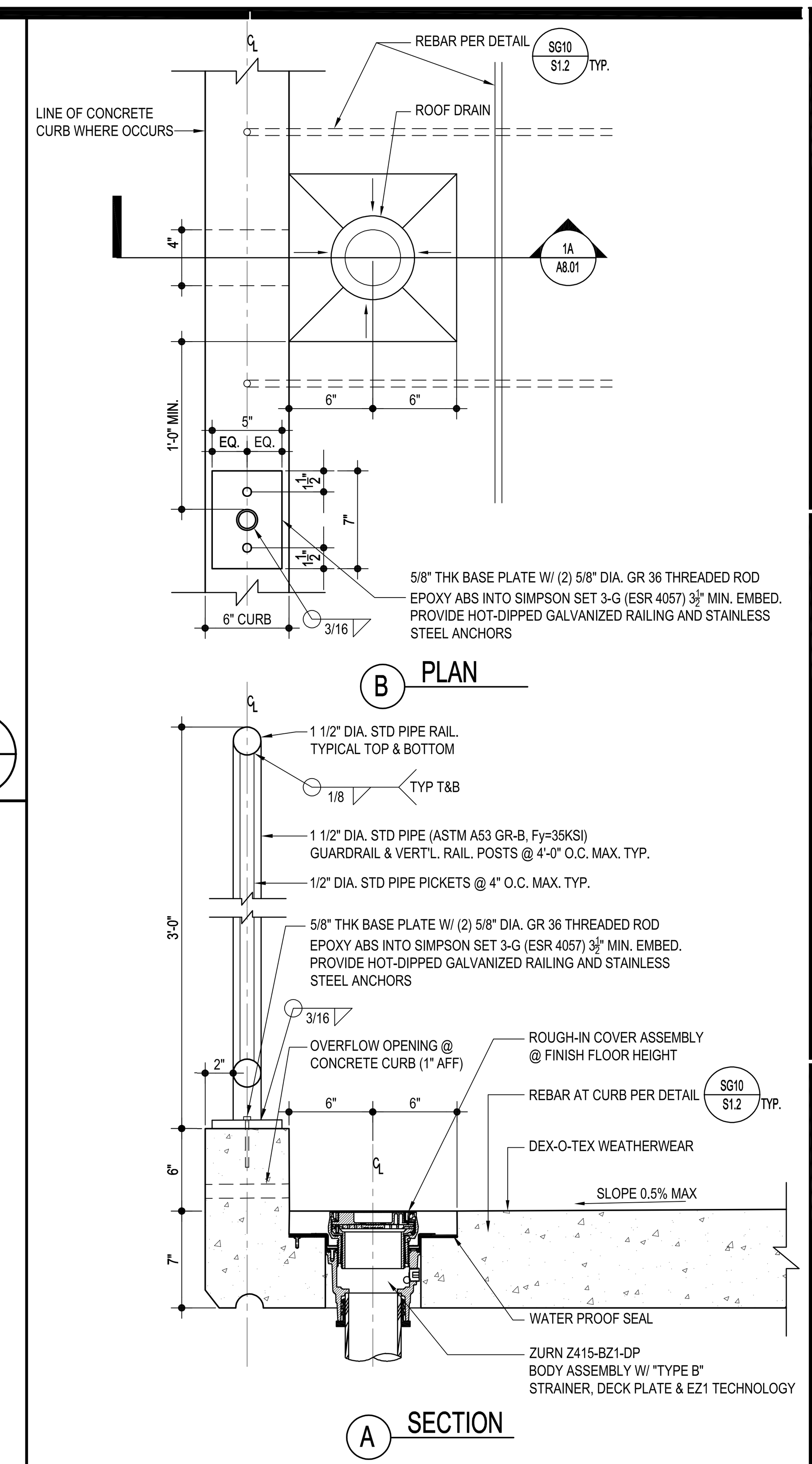
14 / A1.04



(E) DRINKING FOUNTAIN DETAIL (FOR REFERENCE ONLY)

SCALE : 1"=1'-0"

11 / A1.04

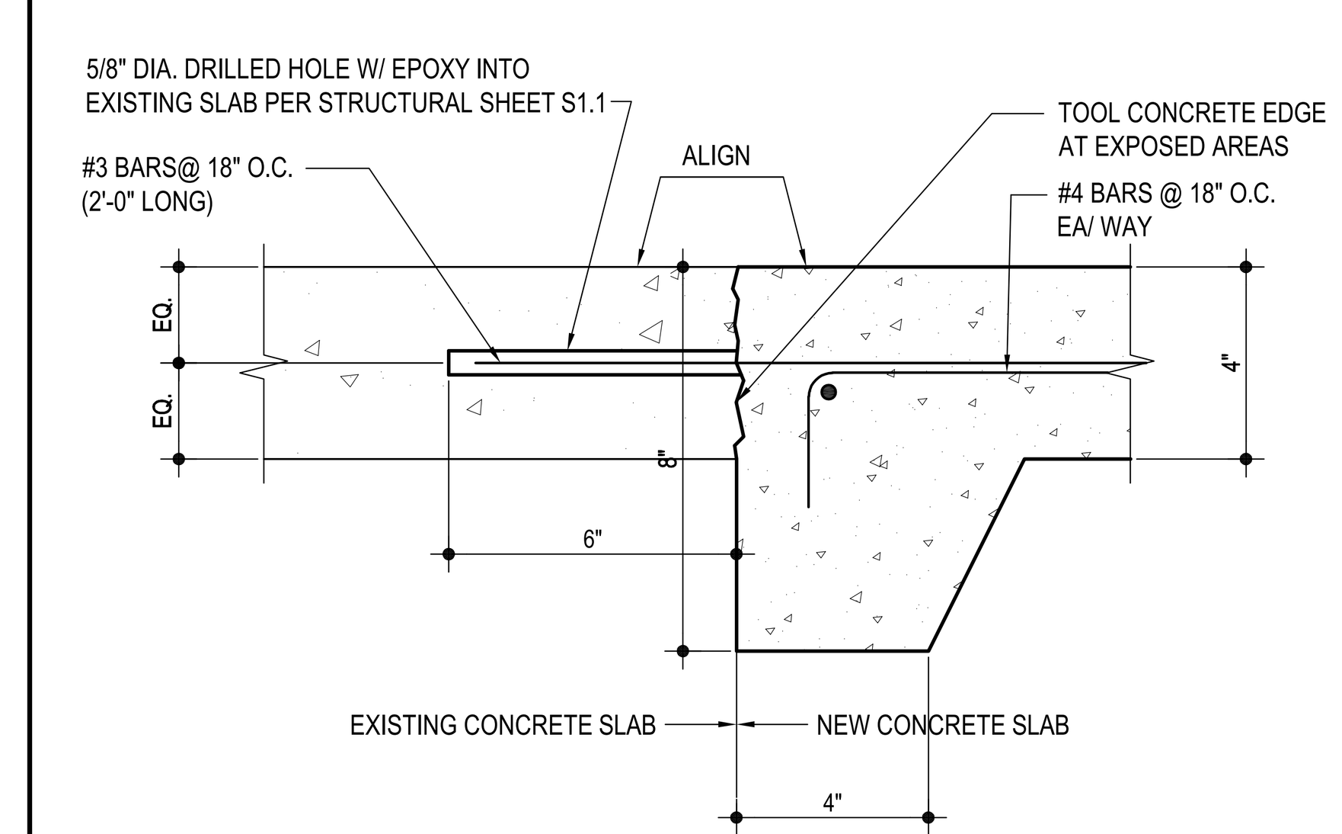


NOTE: SEE SHEET S2.1 FOR ADDITIONAL REBAR INFORMATION

EXTERIOR BALCONY SECTION

SCALE : 1-1/2"=1'-0"

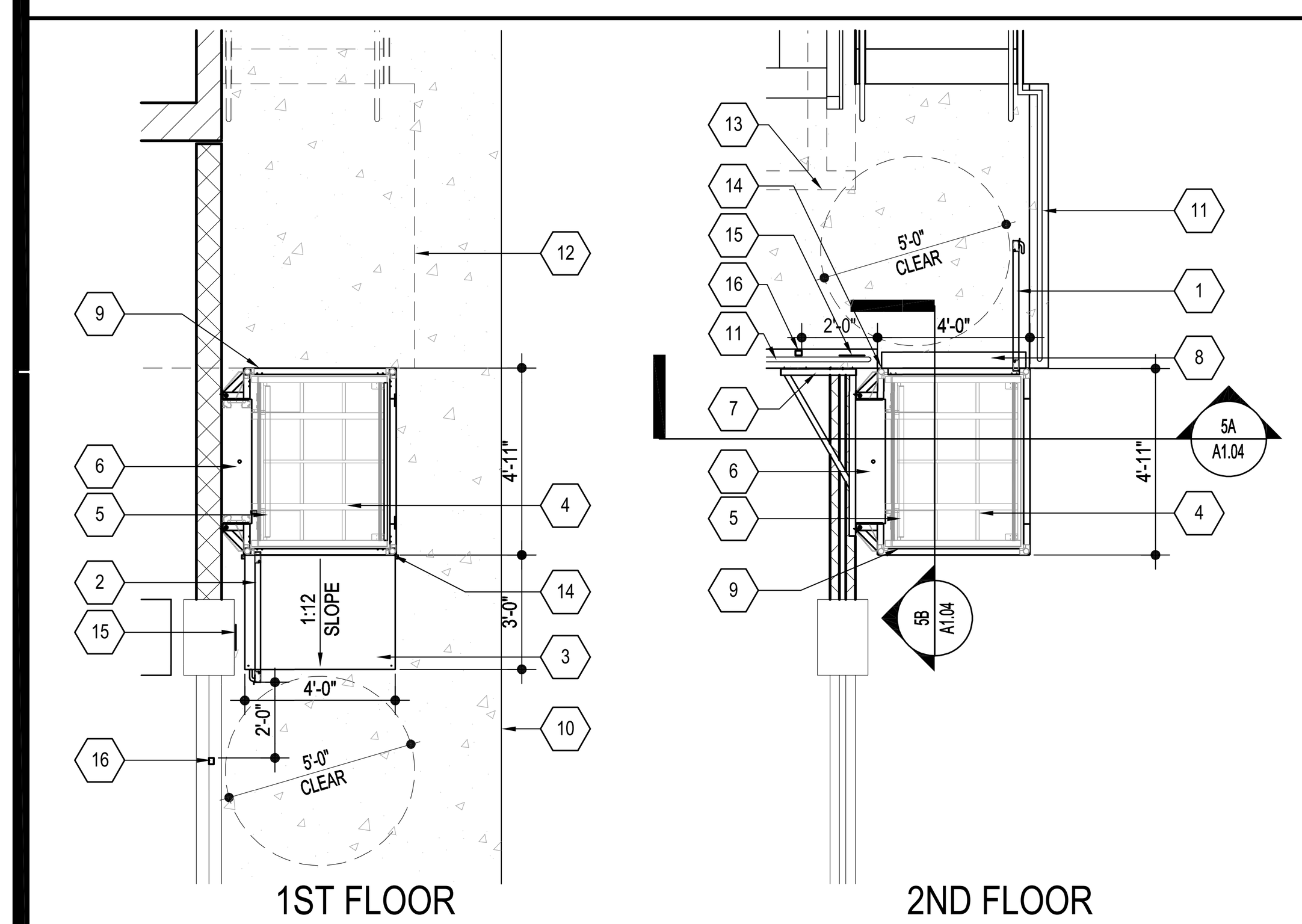
3 / A1.04



CONNECTION OF NEW CONCRETE TO EXISTING CONCRETE

SCALE : 3"=1'-0"

2 / A1.04



RECONSTRUCTION KEYNOTES

1. UPPER GATE
2. LOWER DOOR
3. LOWER LANDING FIXED RAMP
4. STANDARD STRAIGHT-THROUGH PLATFORM
5. GRAB RAIL
6. MAST
7. Y-SHAPED TIE BACK BRACE -SEE DETAIL 5/A1.04 FOR ADDITIONAL INFORMATION
8. WHEELCHAIR LIFT MAST CONNECTION TO CONCRETE SLAB -SEE DETAIL 5/A1.04 FOR ADDITIONAL INFORMATION
9. GENESIS VERTICAL PLATFORM LIFT BY GARAVENTA LIFT
10. CONNECTION OF NEW CONCRETE TO EXISTING -SEE DETAIL 2/A1.04 FOR ADDITIONAL INFORMATION
11. 6" CURB W/ GUARDRAIL
12. 2ND FLOOR ABOVE (DASHED)
13. SHADE STRUCTURE ABOVE (DASHED)
14. WHEELCHAIR LIFT CONTROL BUTTONS
15. WHEELCHAIR LIFT SIGN. -SEE DETAIL 11/A8.01
16. WHEELCHAIR CALL/SEND STATION

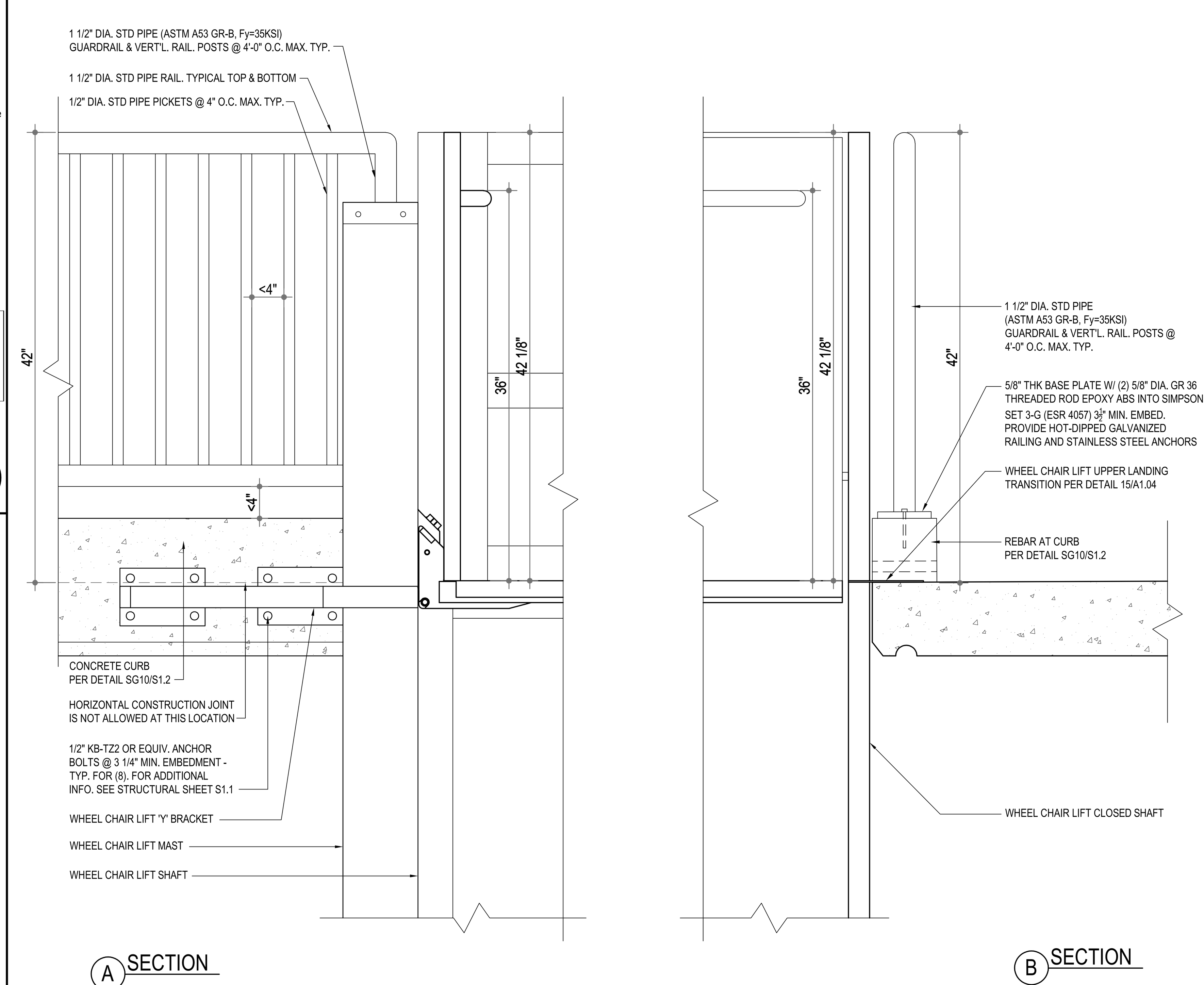
NEW CONCRETE
- 2% MAX. SLOPE AWAY FROM NEW BUILDING AND WHEELCHAIR LIFT.

NOTE: FOR ADDITIONAL INFORMATION SEE MANUFACTURER DRAWINGS 15/A1.04

WHEELCHAIR LIFT FLOOR PLAN

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

13 / A1.04

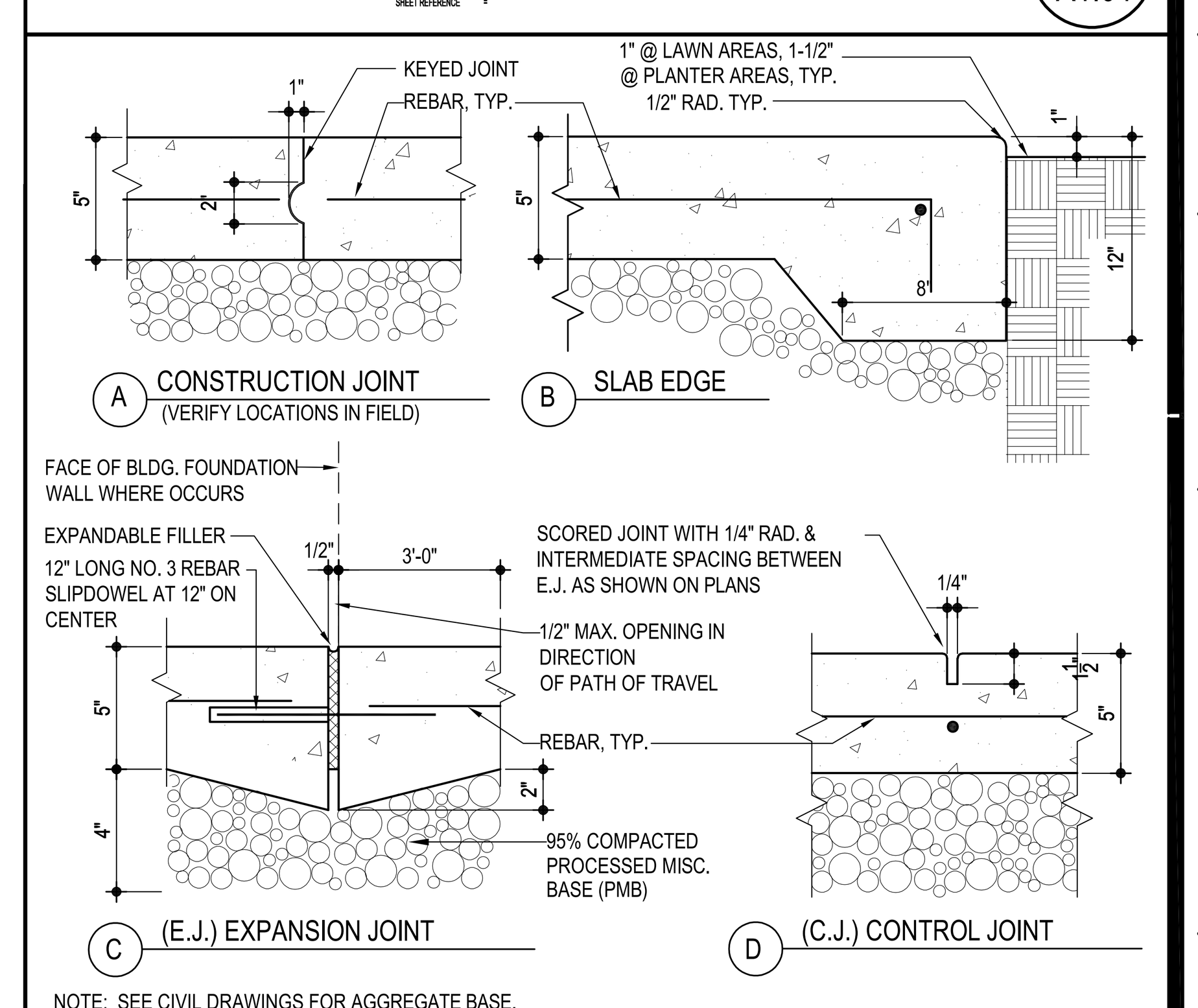


NOTE: FOR ADDITIONAL INFORMATION SEE MANUFACTURER DRAWINGS 15/A1.04

WHEELCHAIR LIFT ATTACHMENT

SCALE : 1-1/2"=1'-0"

5 / A1.04



NOTE: SEE CIVIL DRAWINGS FOR AGGREGATE BASE.
NOTE: TYPICAL SLAB REINFORCEMENT: #4 BARS @ 18" O.C. EACH WAY

TYPICAL CONCRETE SLAB JOINTS

SCALE : 1-1/2"=1'-0"

1 / A1.04

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No.	Date	Description

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

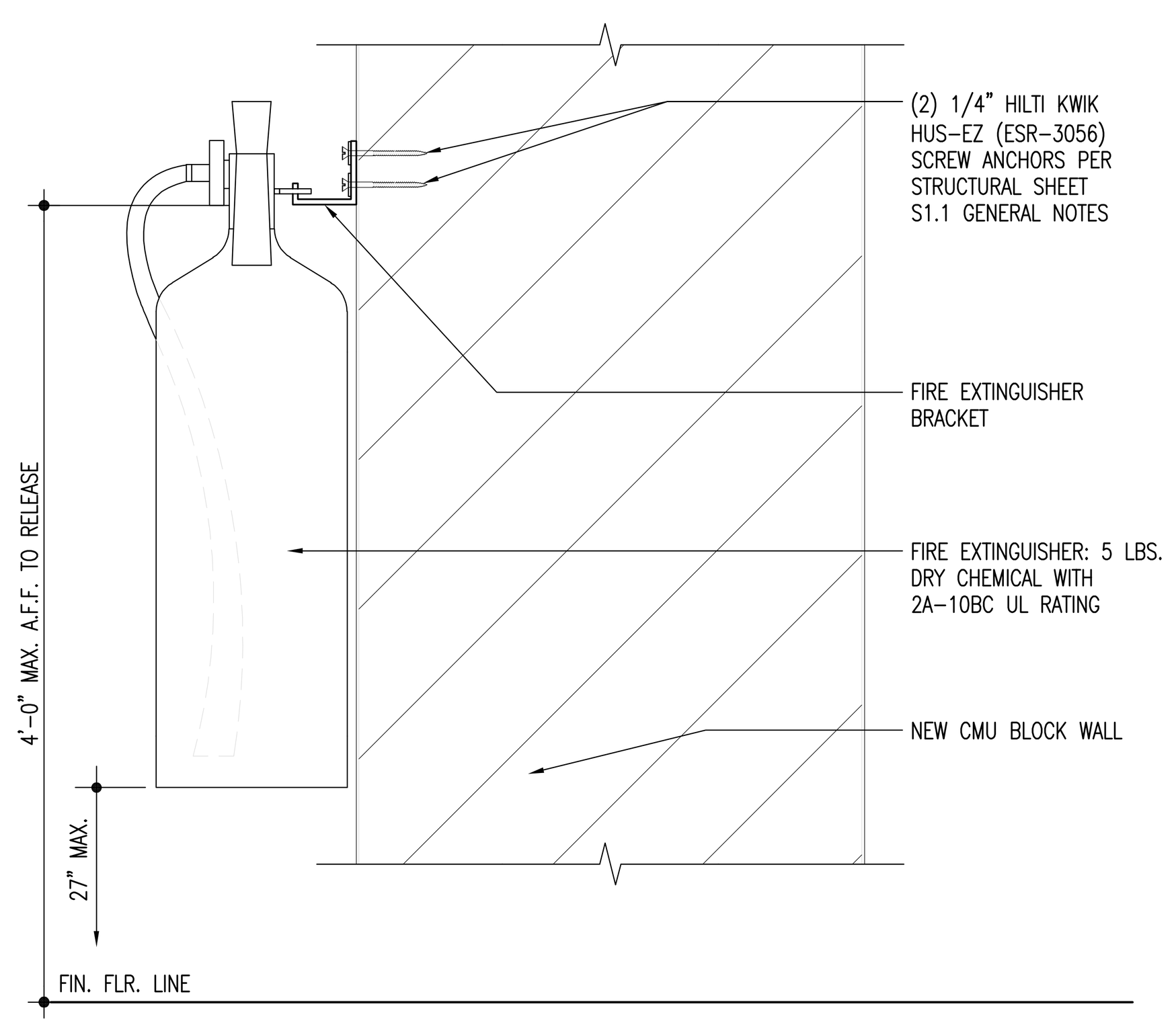
902 NORTH 3RD STREET
BURBANK, CA 91502

SITE DETAILS

Job No. 2986.0100

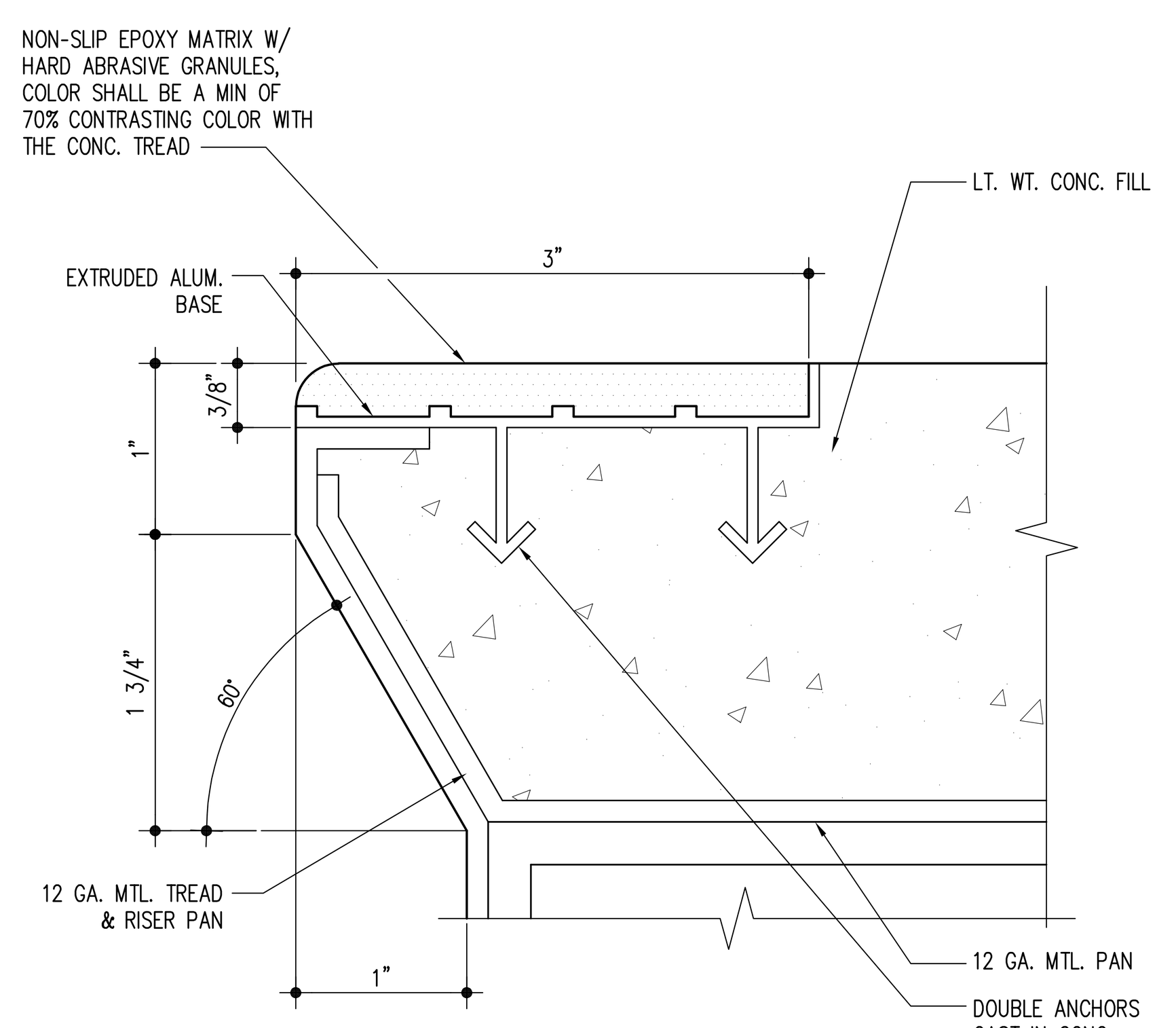
Date 04-14-2023

A1.04



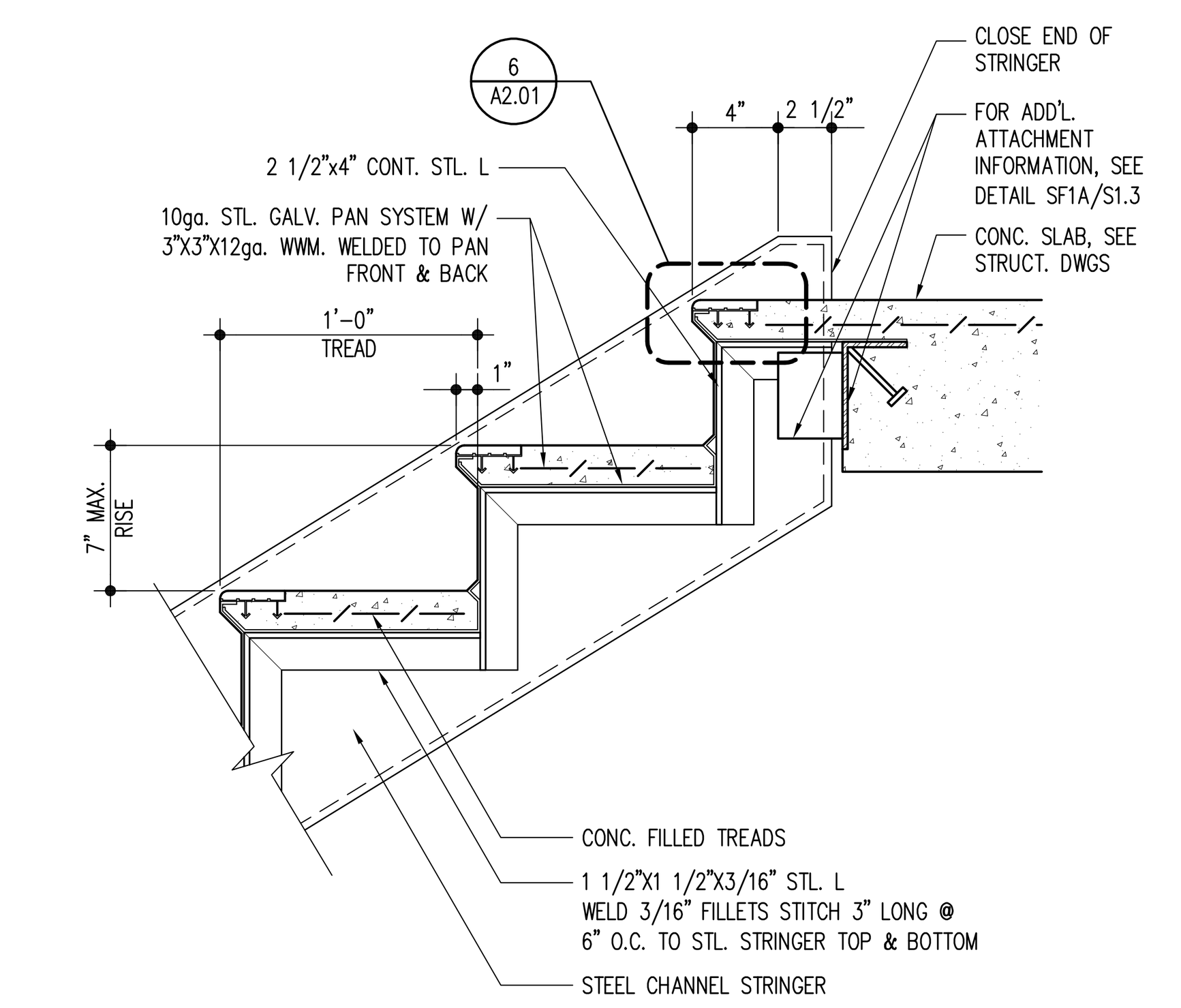
FIRE EXTINGUISHER BRACKET

SCALE : 3"=1'-0"   7 / A2.01



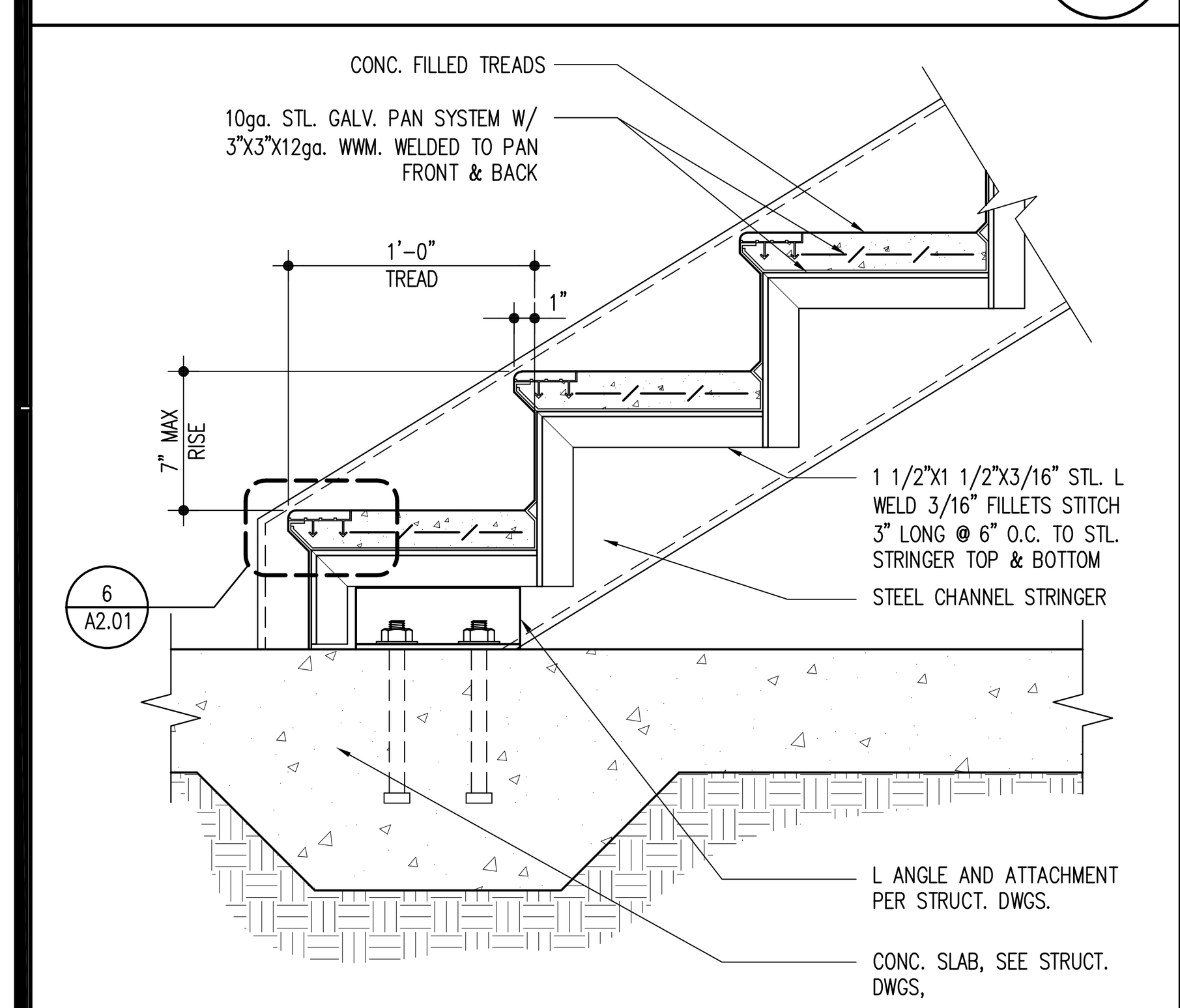
STAIR NOSING

SCALE : FULL   6 / A2.01



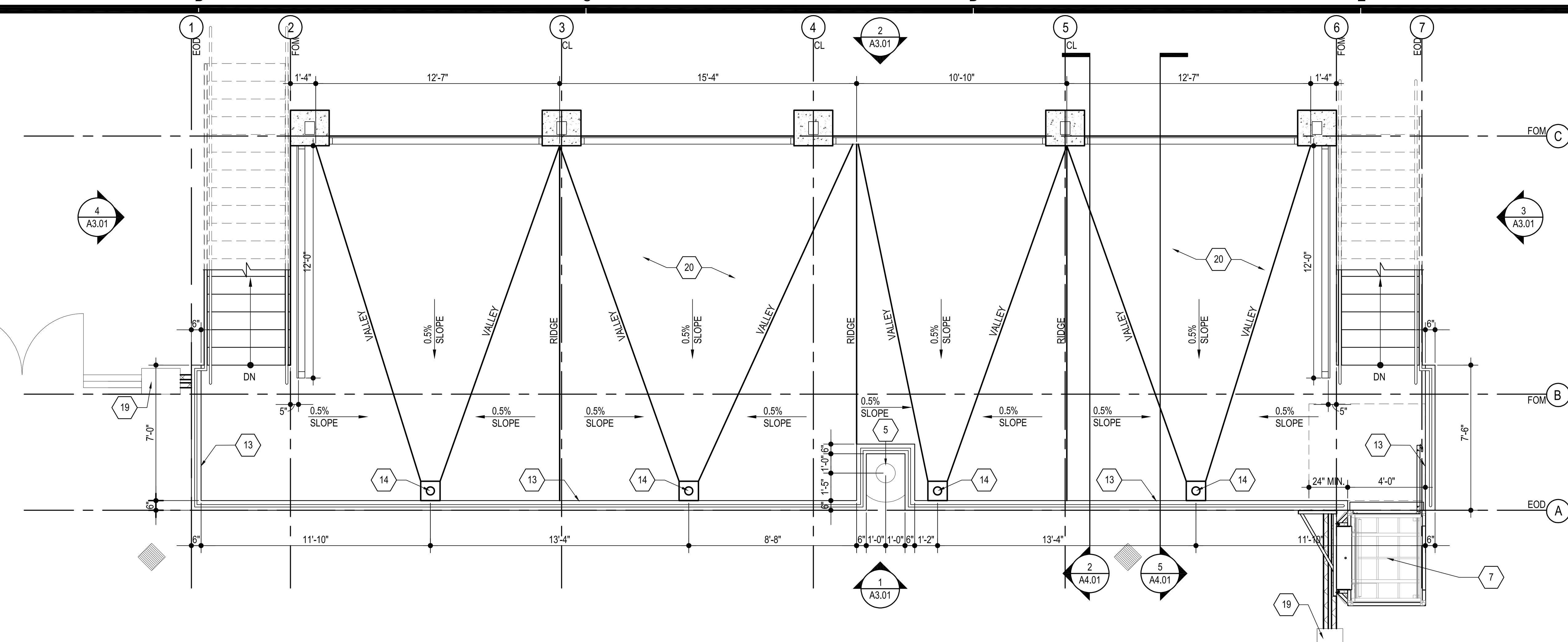
STAIR HEAD

SCALE : 1 1/2" = 1'-0"   5 / A2.01



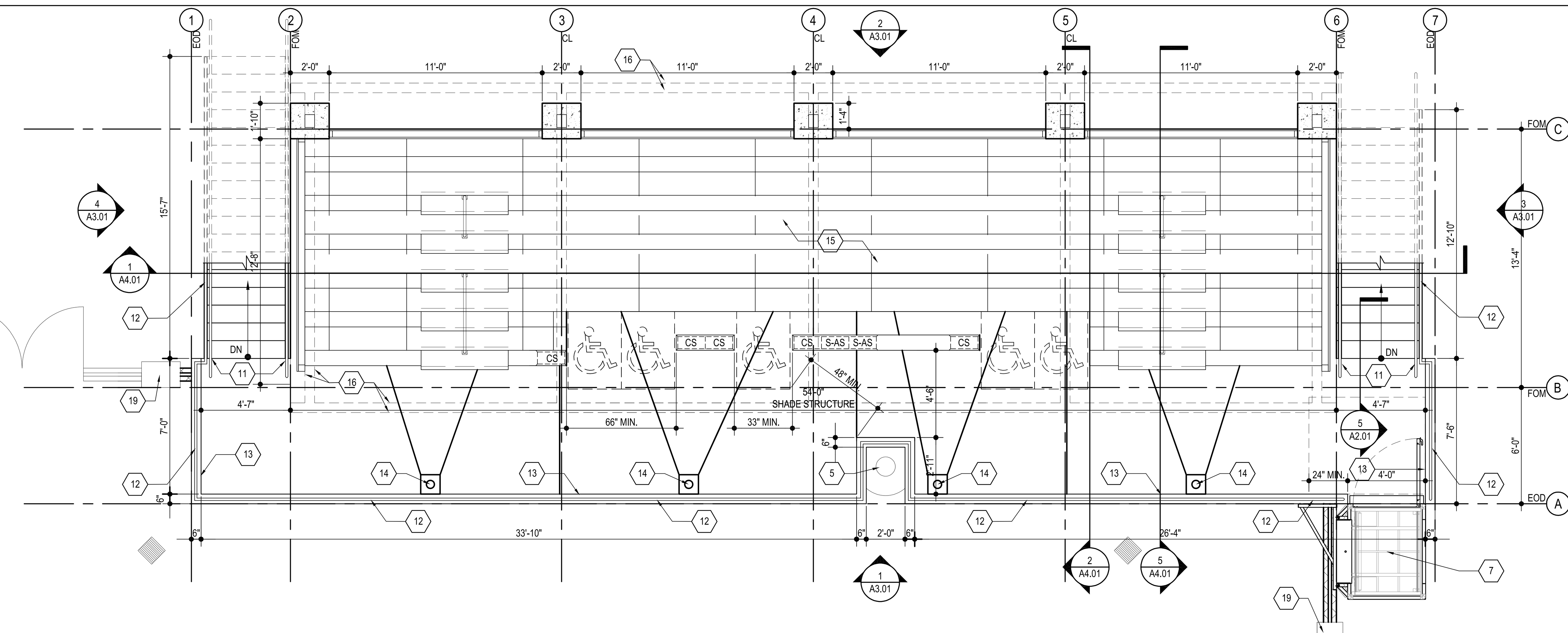
STAIR BASE

SCALE : 1 1/2" = 1'-0"   4 / A2.01



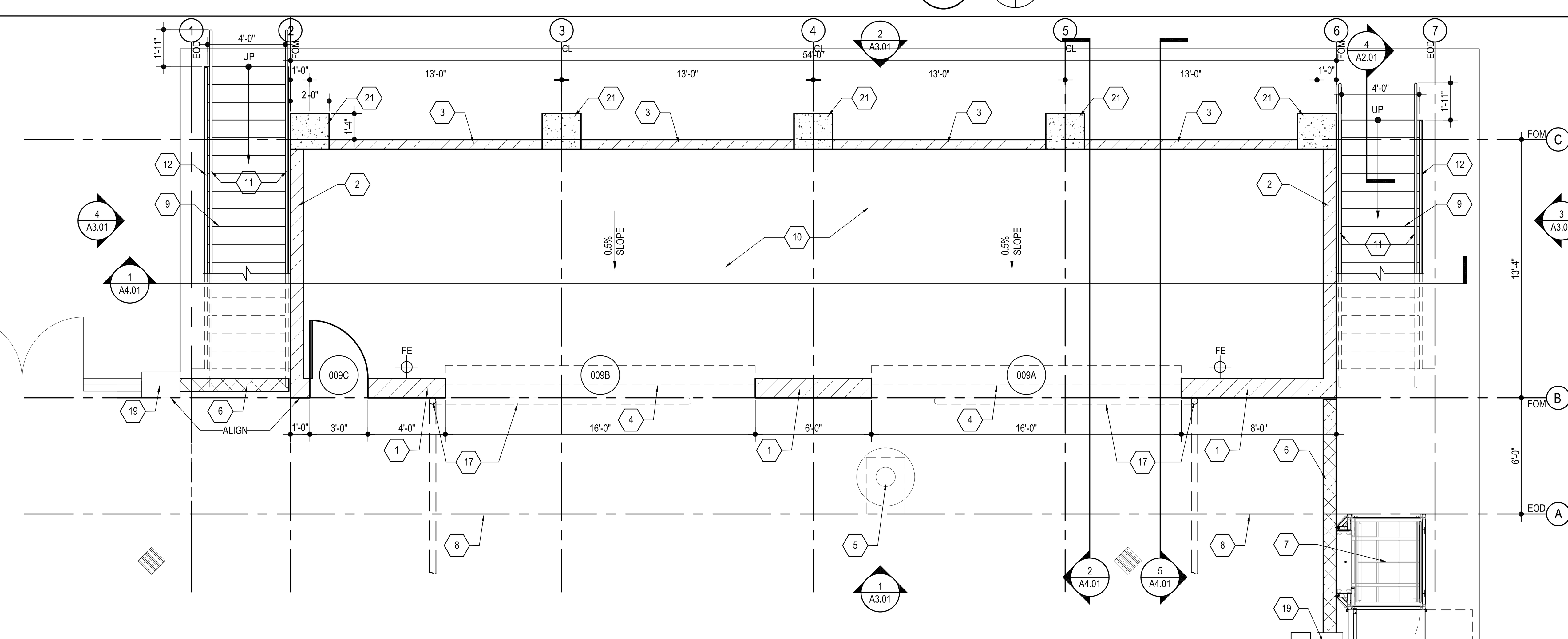
ENLARGED 2ND FLOOR DRAINAGE PLAN

SCALE: 1/4" = 1'-0"   3 / A2.01



ENLARGED 2ND FLOOR RECONSTRUCTION FLOOR PLAN

SCALE: 1/4" = 1'-0"   2 / A2.01



1ST FLOOR RECONSTRUCTION FLOOR PLAN

SCALE: 1/4" = 1'-0"   1 / A2.01

RECONSTRUCTION PLAN KEY NOTES

1. (N) 12" CMU BLOCK WALL
2. (N) 8" CMU BLOCK WALL/COLUMN
3. (N) 6" CMU BLOCK WALL
4. (N) OVERHEAD DOOR
5. (E) LIGHT POST AND BASE TO REMAIN. PROTECT IN PLACE.
6. REPLACE RETAINING WALL, FOUNDATION, AND WROUGHT IRON FENCE TO MATCH (E). SEE DTL. 5/S4.1
7. (N) WHEELCHAIR LIFT BY GARAVENTA. SEE DETAIL 13/A1.04 FOR ADDITIONAL INFORMATION
8. (N) 2ND FLOOR ABOVE (DASHED).
9. (N) METAL STAIRS AND STRINGER. SEE DTL. SF1A/S1.3 SF1B/S1.3 FOR ADDITIONAL INFORMATION.
10. (N) SLAB ON GRADE. SEE SHEET S2.1 FOR ADDITIONAL INFORMATION.
11. (N) HAND RAIL. SEE DTL. 3/A4.01 FOR ADDITIONAL INFORMATION.
12. (N) GUARD RAIL
13. (N) 6" CURB
14. (N) ROOF DRAIN W/ OVERFLOW @ CURB TO CONNECT INTO NEW SWIMMING POOL DECK DRAIN SYSTEM. SEE DETAIL 3/A1.04 FOR ADDITIONAL INFORMATION.
15. (N) 2ND FLOOR BLEACHER SEATING BY SOUTHERN BLEACHERS.
16. (N) SHADE STRUCTURE ABOVE BLEACHER SEATING (DASHED). - SEE DTL. FR1/S4.2
17. (N) DOWNSPOUT TO CONNECT INTO NEW SWIMMING POOL DECK DRAIN SYSTEM. SEE SHEET DP.2 FOR ADDITIONAL INFORMATION.
18. (N) SHADE STRUCTURE ABOVE EXISTING CONCRETE BLEACHER SEATING.
19. (E) CONCRETE PILASTER.
20. (N) CONCRETE SLAB W/ DEX-FLEX WATERPROOF DECK SYSTEM FROM DEX-O-TEX.
21. (N) CONCRETE PILASTER. - SEE DTLS. 6/S4.1 6A/S4.1 FOR ADDITIONAL INFORMATION.

RECONSTRUCTION LEGEND

FE — (N) FIRE EXTINGUISHER. - SEE DTL. 7/A2.01 FOR ADDITIONAL INFORMATION.

EXITING ANALYSIS AT 2ND FLOOR

A. BLEACHERS SEATING COUNT

	18" SEATS	145 TOTAL NET
CS	18" COMPANION SEATS	5 TOTAL NET (11B-221.3)
S-AS	18" SEMI-AMBULANT SEATS	2 TOTAL NET (11B-221.6)
	33" WHEELCHAIR SPACES	5 TOTAL NET
	TOTAL SEATING CAPACITY	157 TOTAL SEATING CAPACITY

B. STAIRWAY WIDTH PER SECTION 1005.3.1

157 OCCUPANT LOAD
X.3 INCH PER OCCUPANT LOAD

47.1" REQUIRED WIDTH
(2) 55" STAIRS WIDTH PROVIDED

47.1" < (2) 55"
47.1" < 110" OK

ALS RECEIVERS REQUIREMENTS

(N) BLEACHERS

TOTAL SEATING CAPACITY INCLUDING WHEELCHAIR SPACE 157
REQUIRED NUMBER OF RECEIVERS (4% OF SEATING CAPACITY)

157x 4% = 4.2 = 7 RECEIVERS

PROVIDE PORTABLE ASSISTIVE LISTENING RECEIVERS 7

NOTE: FOR ADDITIONAL INFORMATION SEE ASSISTIVE LISTENING SYSTEM NOTE ON SHEET E2.00

GENERAL NOTES

1. CONTRACTOR TO TEST FOR MOISTURE PRIOR TO DEX-O-TEX VAPORCONTROL PRIMER 200-E

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BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

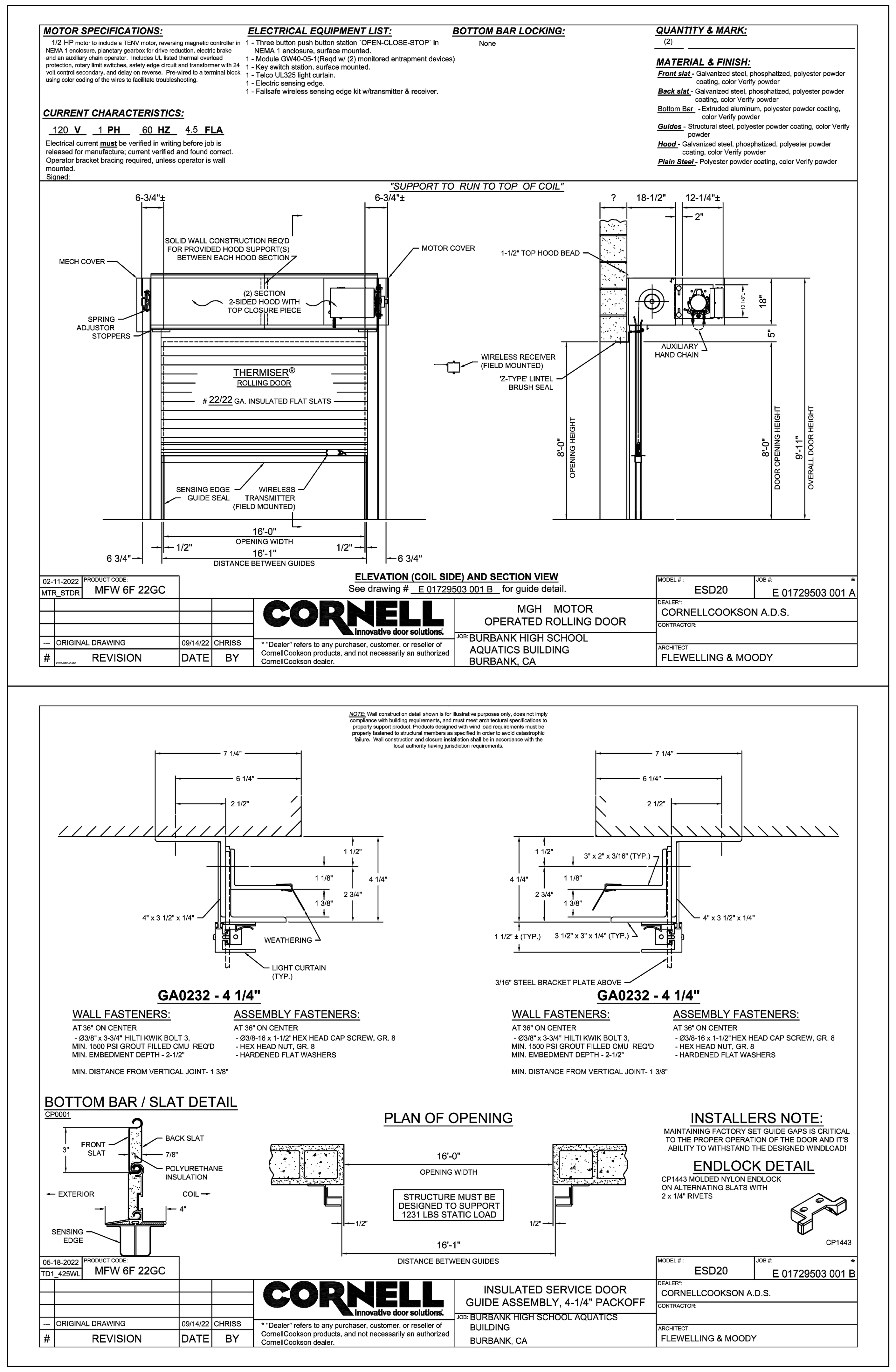
902 NORTH 3RD STREET
BURBANK, CA 91502

RECONSTRUCTION FLOOR PLANS

Job No. 2986.0100

Date 04-14-2023

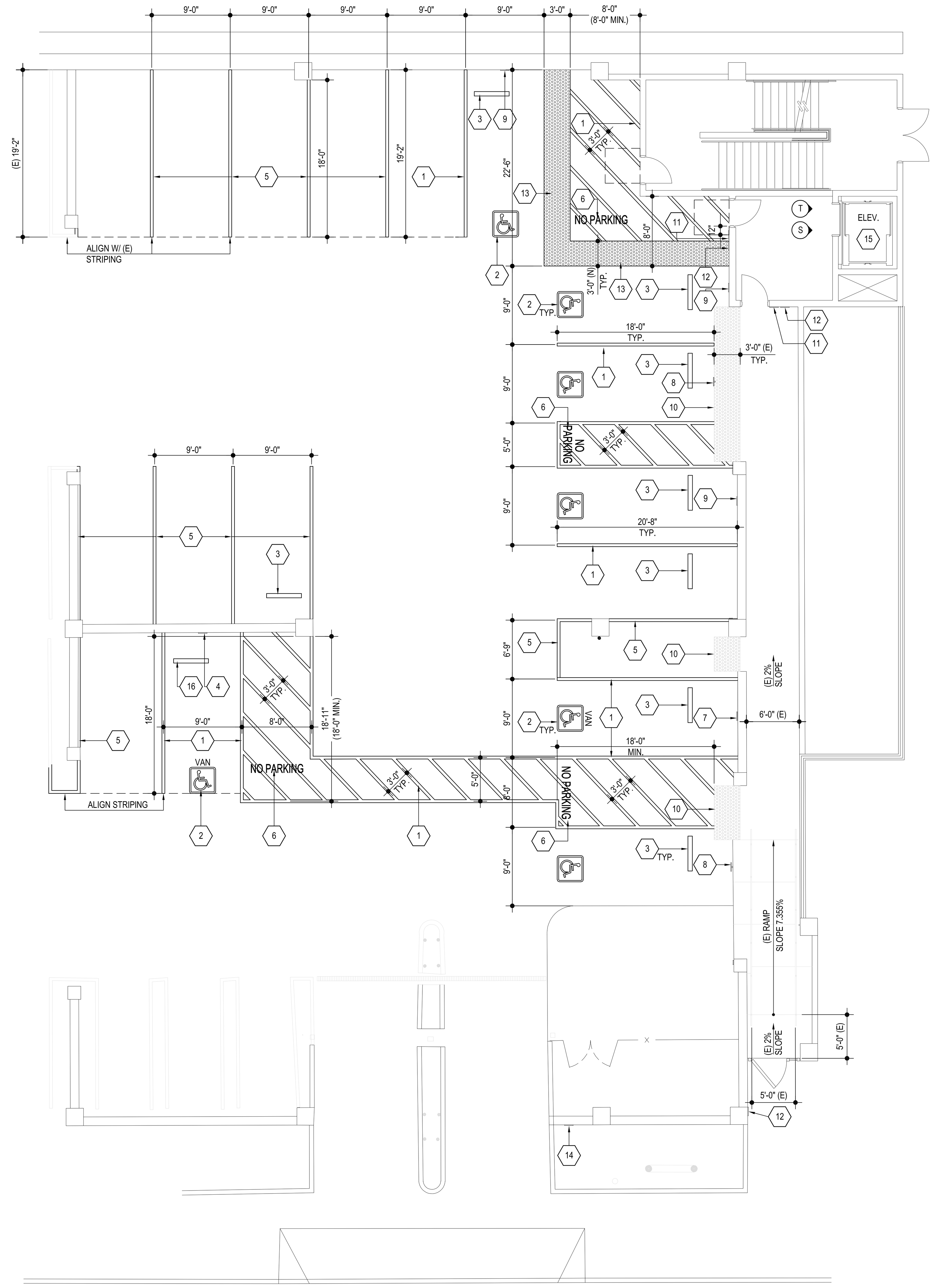
A2.01



COIL SERVICE DOOR

SCALE : NTS

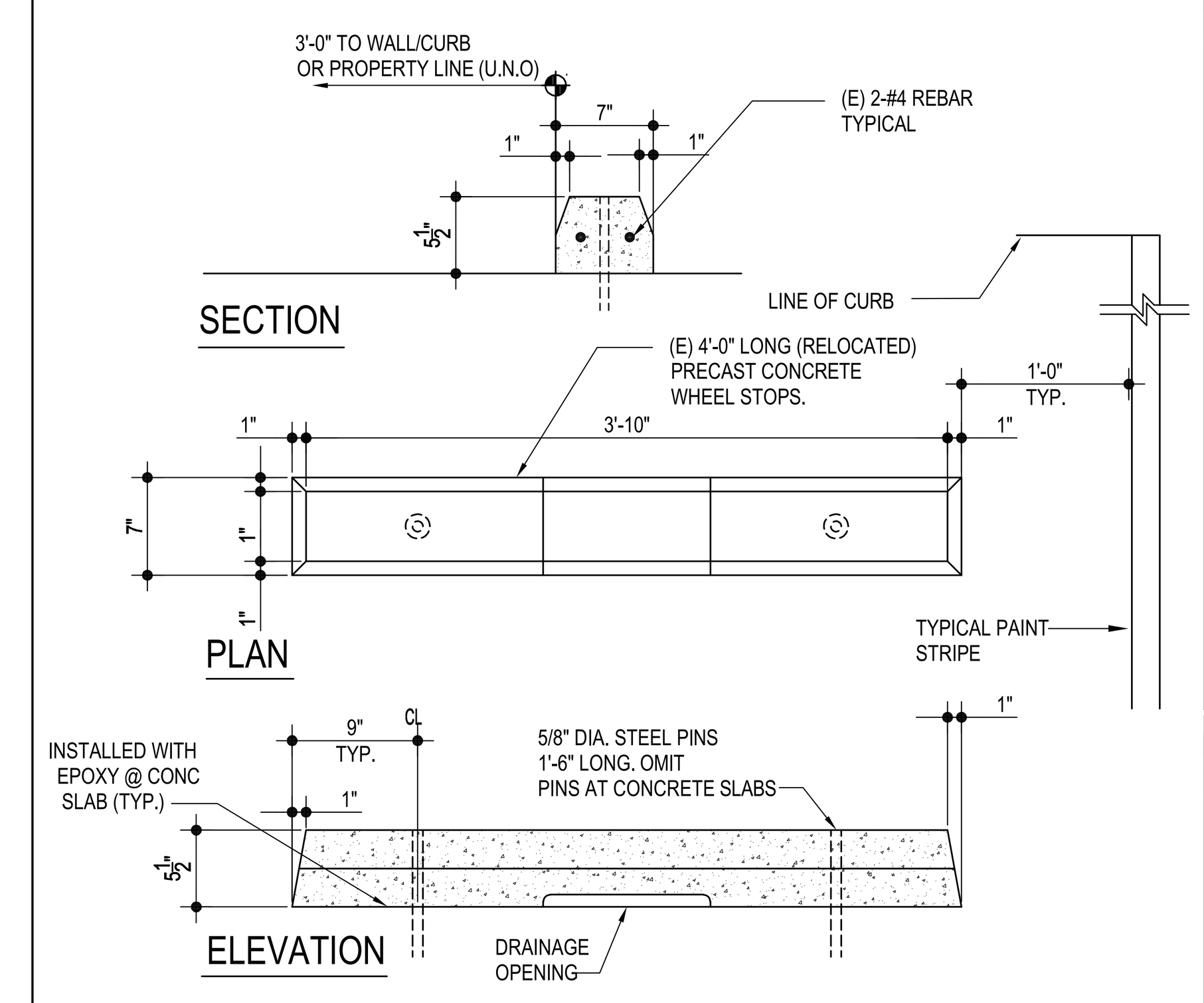
6 / A2.02



PARTIAL PARKING LAYOUT PLAN

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

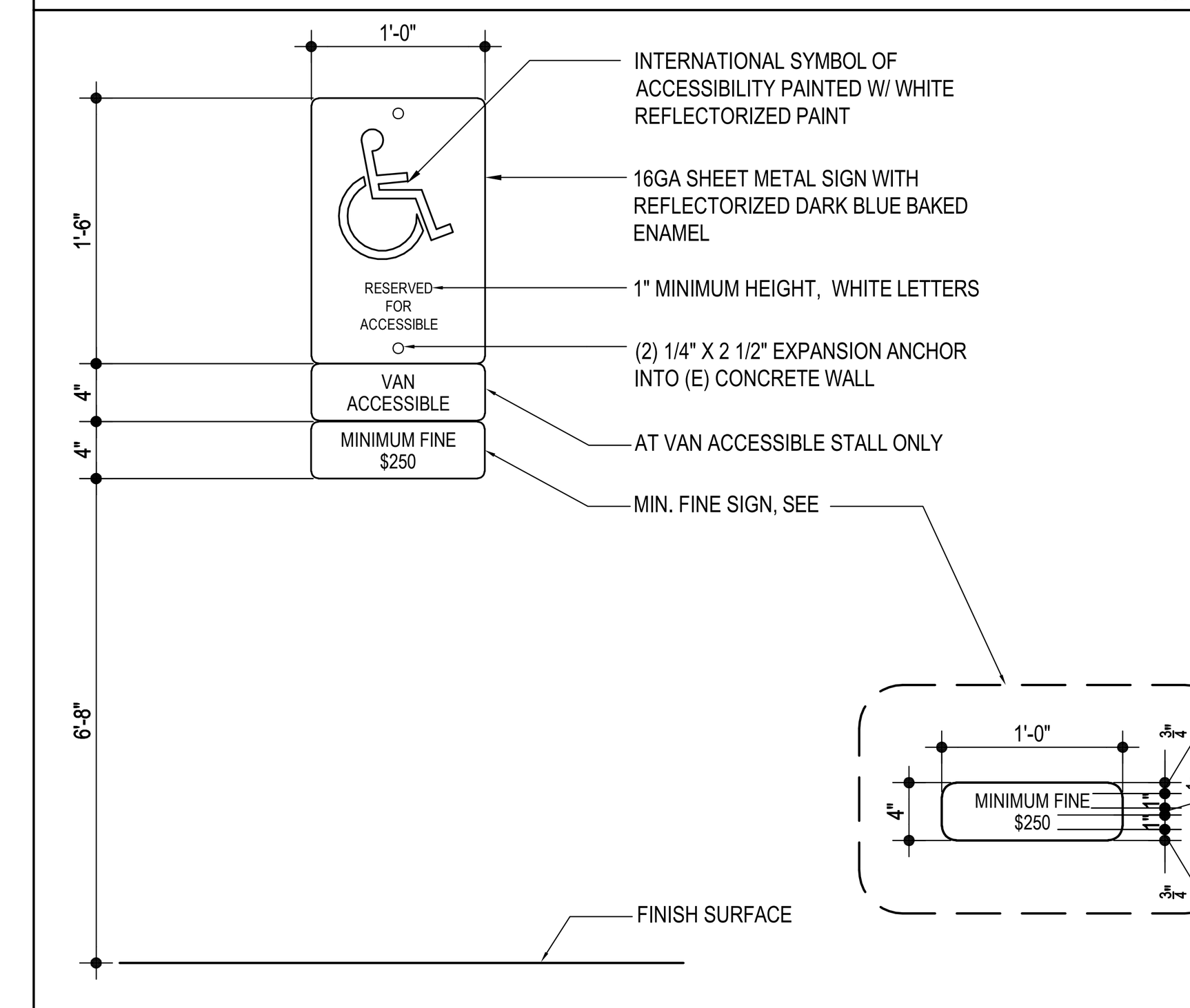
5 / A2.02



CONCRETE WHEEL STOP

SCALE : 1" = 1'-0"

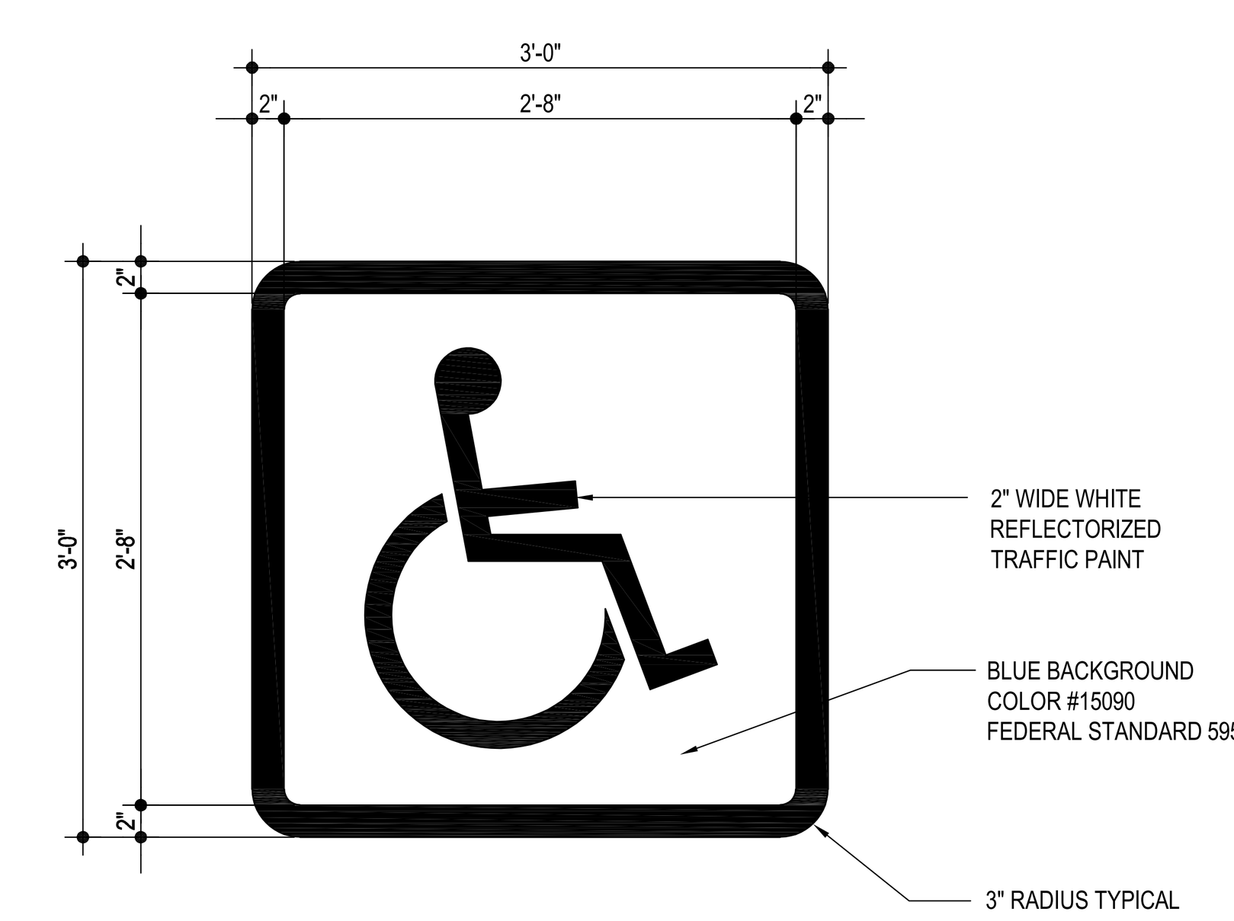
4 / A2.02



WALL MOUNTED ACCESSIBLE PARKING SIGN

SCALE : 1"=1'-0"

3 / A2.02



ACCESSIBILITY SYMBOL

SCALE : 1" = 1'-0"

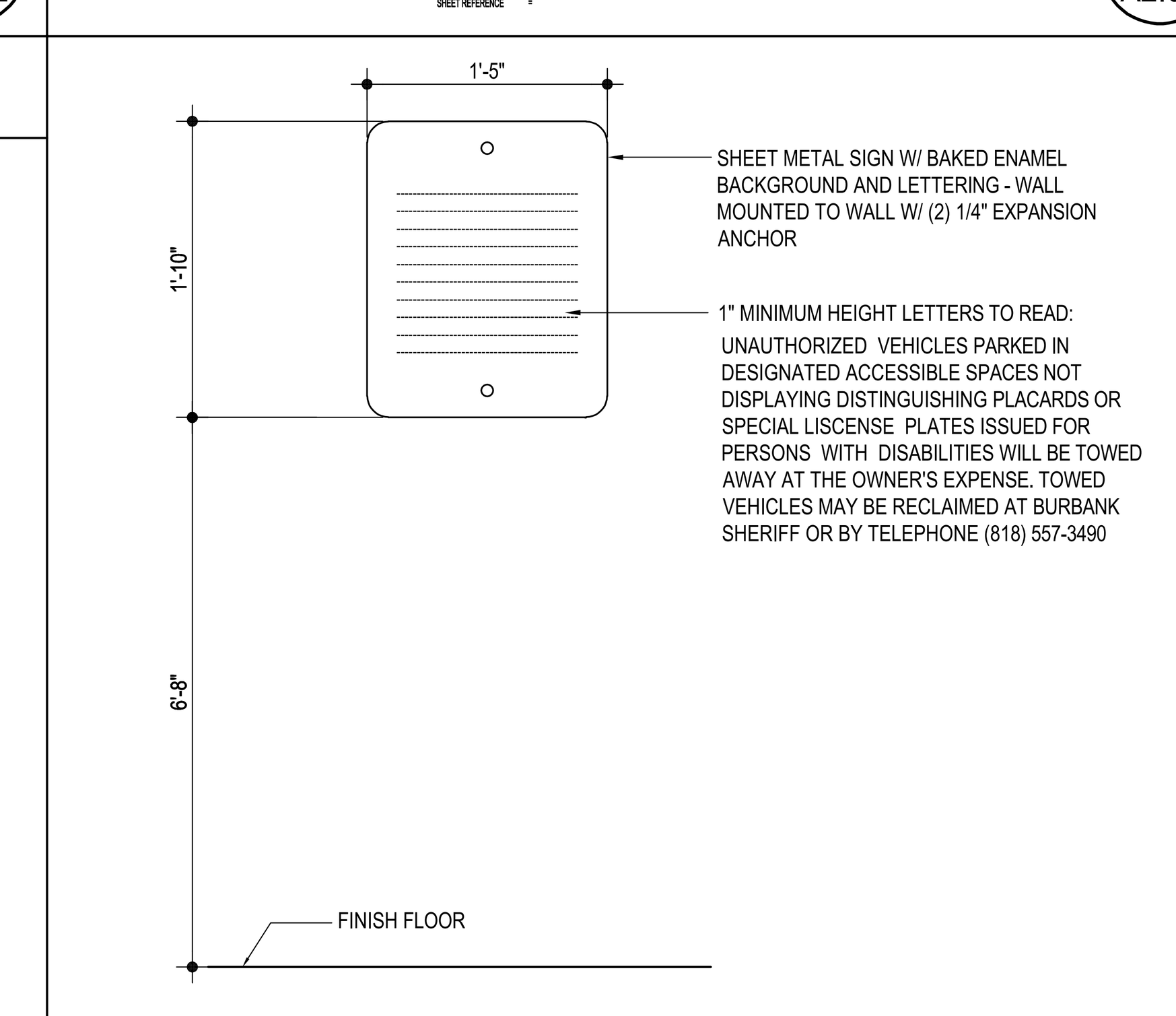
2 / A2.02

LEGEND

(X) PHOTO REFERENCE - SEE DETAIL 12/A8.01 (FOR REFERENCE ONLY)

PLAN KEY NOTES

1. 4" MIN. BLUE PAINTED TYP. (A# 03-122682).
2. ACCESSIBILITY SYMBOL, TYP. SEE DTL 2/A2.02 (A# 03-122682).
3. CONC. WHEEL STOP SEE DTL. 4/A2.02 (A# 03-122682).
4. VAN ACCESSIBLE PARKING SIGN. SEE DTL. 3/A2.02 (A# 03-122682).
5. 4" MIN. WHITE PAINTED, TYP. (A# 03-122682).
6. 12" HIGH WHITE LETTERS. (A# 03-122682).
7. (E) VAN ACCESSIBLE PARKING SIGN (A# 111855).
8. (E) POST MOUNTED ACCESSIBLE PARKING SIGN (A# 111855).
9. (E) WALL MOUNTED ACCESSIBLE PARKING SIGN (A# 111855).
10. 3'-0" WIDE TRUNCATED DOMES (A# 111855).
11. (E) ROOM IDENTIFICATION SIGN W/ TACTILE SYMBOL PER DTL. 7/A8.01 (A# 111855).
12. (E) WALL MOUNTED ISA SIGN. PER DTL. 9/A8.01 (A# 111855).
13. 3'-0" WIDE TRUNCATED DOMES (A# 03-122682).
14. TOW-AWAY SIGN. PER DTL. 1/A2.02 (A# 03-122682).
15. (E) ELEVATOR (A# 105548).



ENTRANCE WARNING SIGN

SCALE : 1"=1'-0"

1 / A2.02

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BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL NEW STORAGE BUILDING W/ BLEACHER SEATING

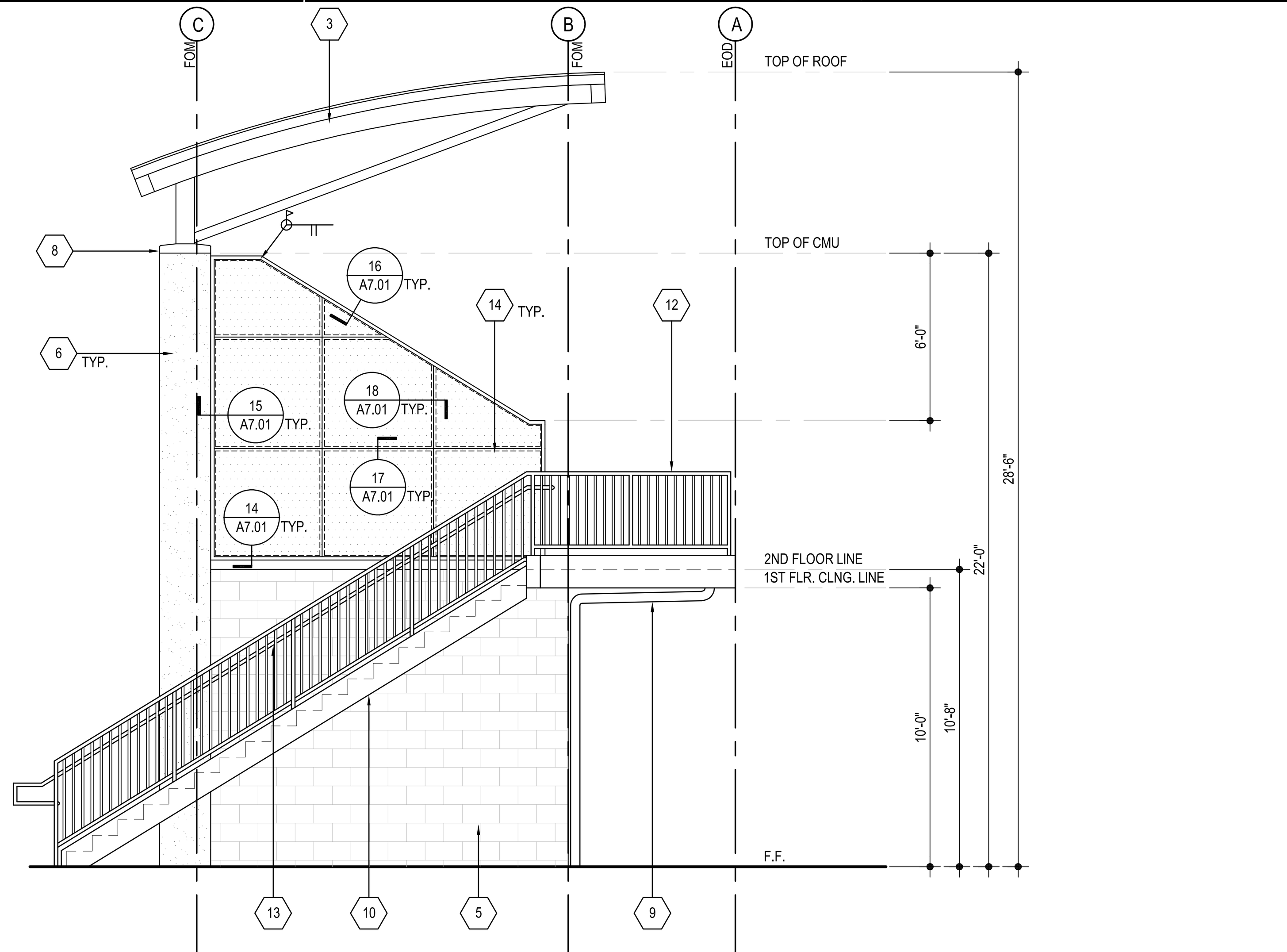
902 NORTH 3RD STREET
BURBANK, CA 91502

PARTIAL ENLARGED PARKING

Job No. 2986.0100

Date 04-14-2023

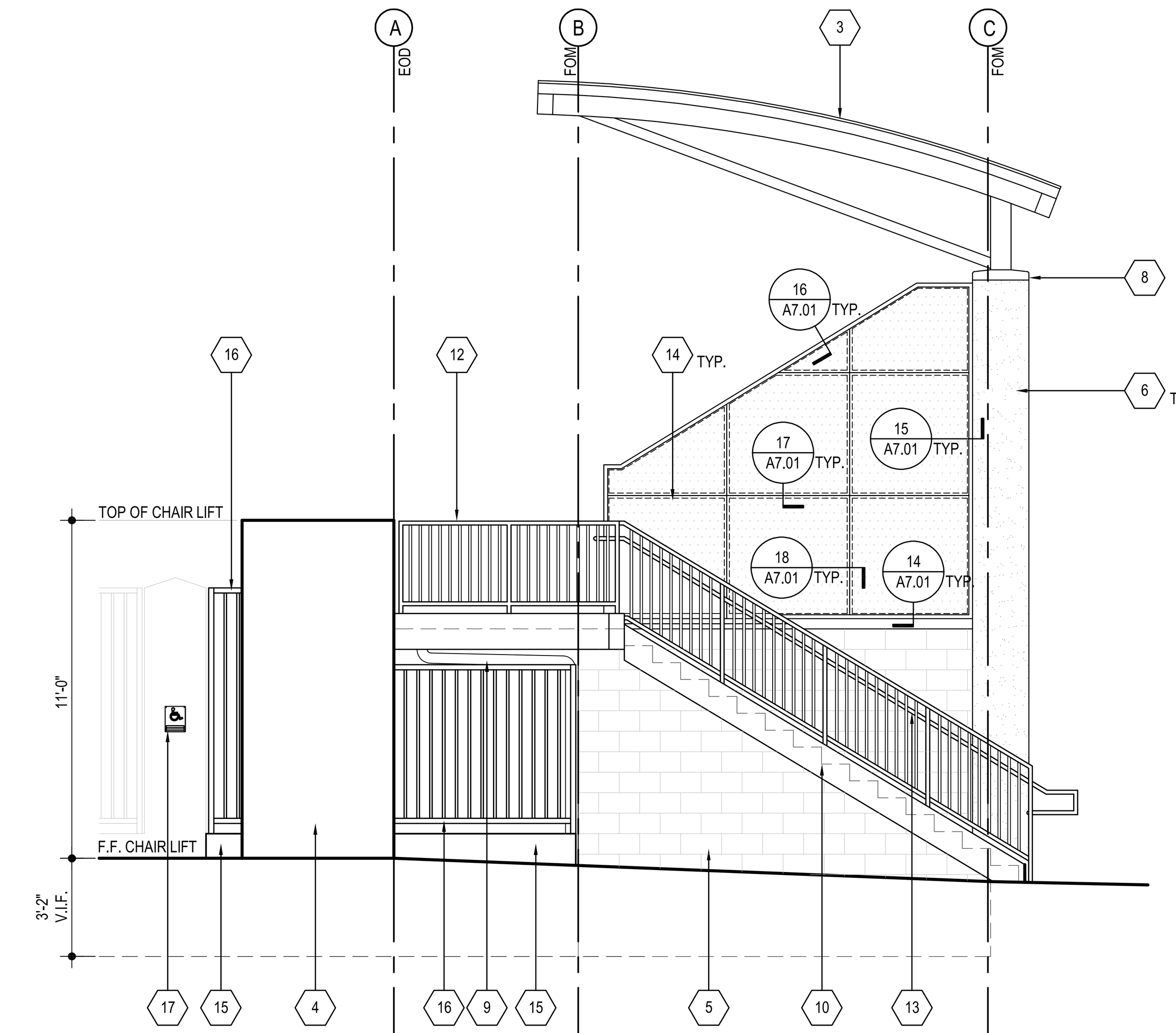
A2.02



WEST ELEVATION

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

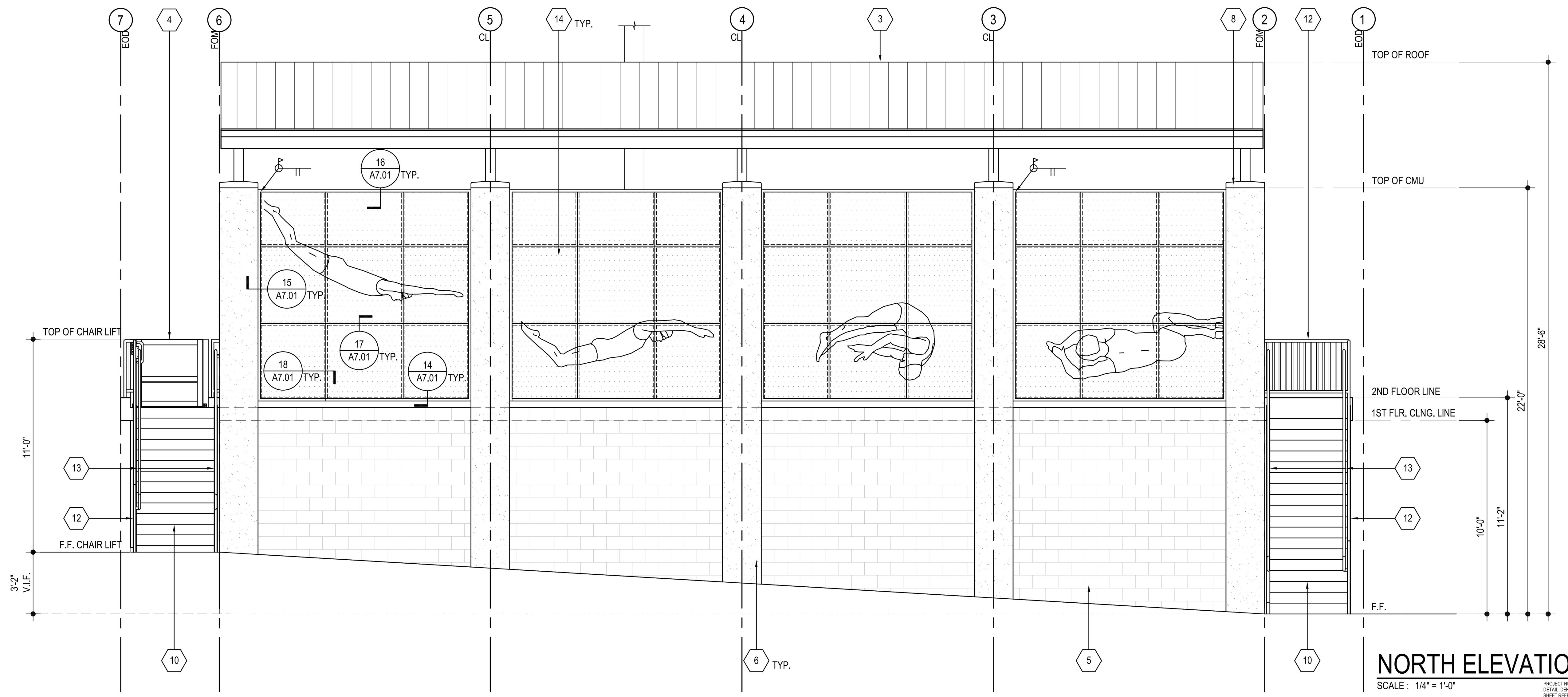
4 / A3.01



EAST ELEVATION

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

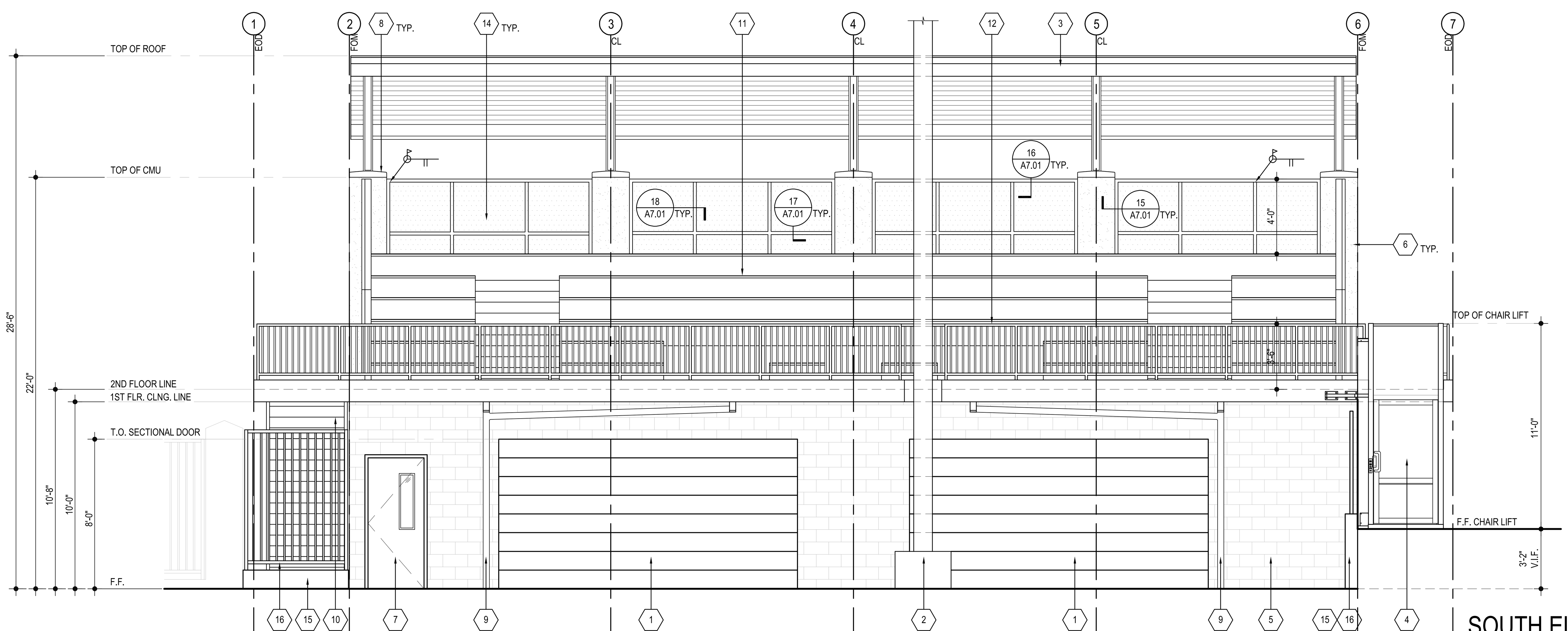
3 / A3.01



NORTH ELEVATION

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

2 / A3.01



SOUTH ELEVATION

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

1 / A3.01

LEGEND

PATTERN LEGEND AS FOLLOWS:

CONCRETE PILASTER

PRECISION CMU BLOCK

ELEVATION KEYNOTES

1. OVERHEAD SECTIONAL DOOR
2. EXISTING LIGHT POST TO REMAIN. PROTECT IN PLACE IN ITS ENTIRETY, TYP.
3. SHADE STRUCTURE. STRUCTURAL STEEL TO BE PRIMED AND PAINTED - SEE DTL. FR1/S4.2
4. VERTICAL PLATFORM LIFT - BY GARAVENTA LIFT GROUP
5. CONCRETE MASONRY UNIT - SMOOTH
6. CONCRETE PILASTER TYP. FOR (5). - SEE DTLS. 6/S4.1 6A/S4.1 FOR ADDITIONAL INFORMATION.
7. HOLLOW METAL DOOR AND FRAME - SEE DOOR SCHEDULE
8. CONCRETE WALL CAP
9. DOWNSPOUT TO CONNECT INTO NEW SWIMMING POOL DECK DRAIN SYSTEM.
10. STAIRS
11. BLEACHER SEATING
12. GUARD RAIL
13. HAND RAIL
14. 4'-0" x 4'-0" DECORATIVE METAL PANEL, OVER PRIMED AND PAINTED STRUCTURAL STEEL
15. RETAINING WALL TO MATCH EXISTING
16. METAL FENCE TO MATCH EXISTING
17. WHEELCHAIR LIFT SIGN. - SEE DTL. 13/A1.04

GENERAL NOTES

1. ALL STEEL MEMBERS SHALL BE PRIMED AND FINISHED ON SITE

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NEW STORAGE BUILDING W/
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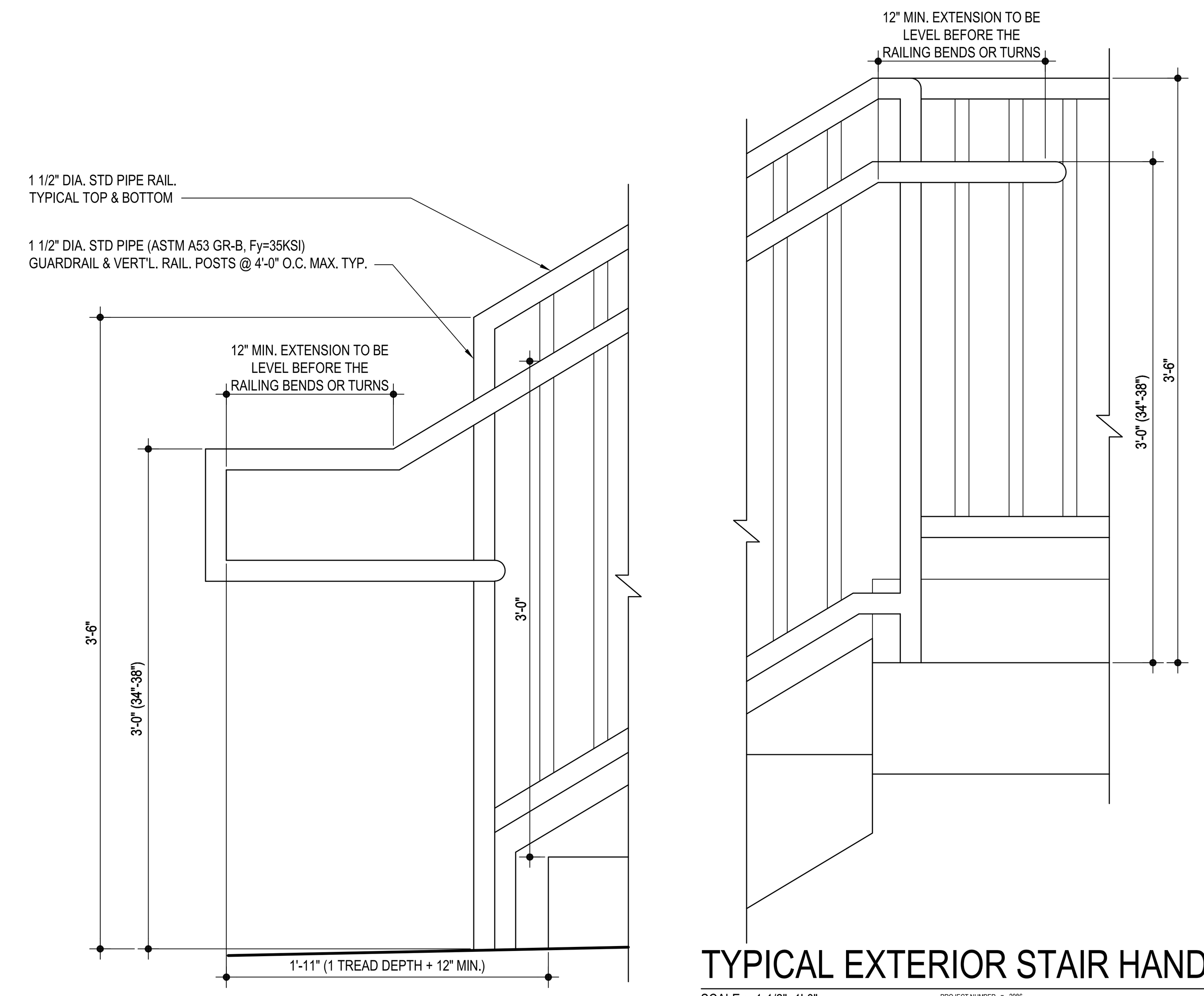
902 NORTH 3RD STREET
BURBANK, CA 91502

EXTERIOR ELEVATIONS

Job No. 2986.0100

Date 04-14-2023

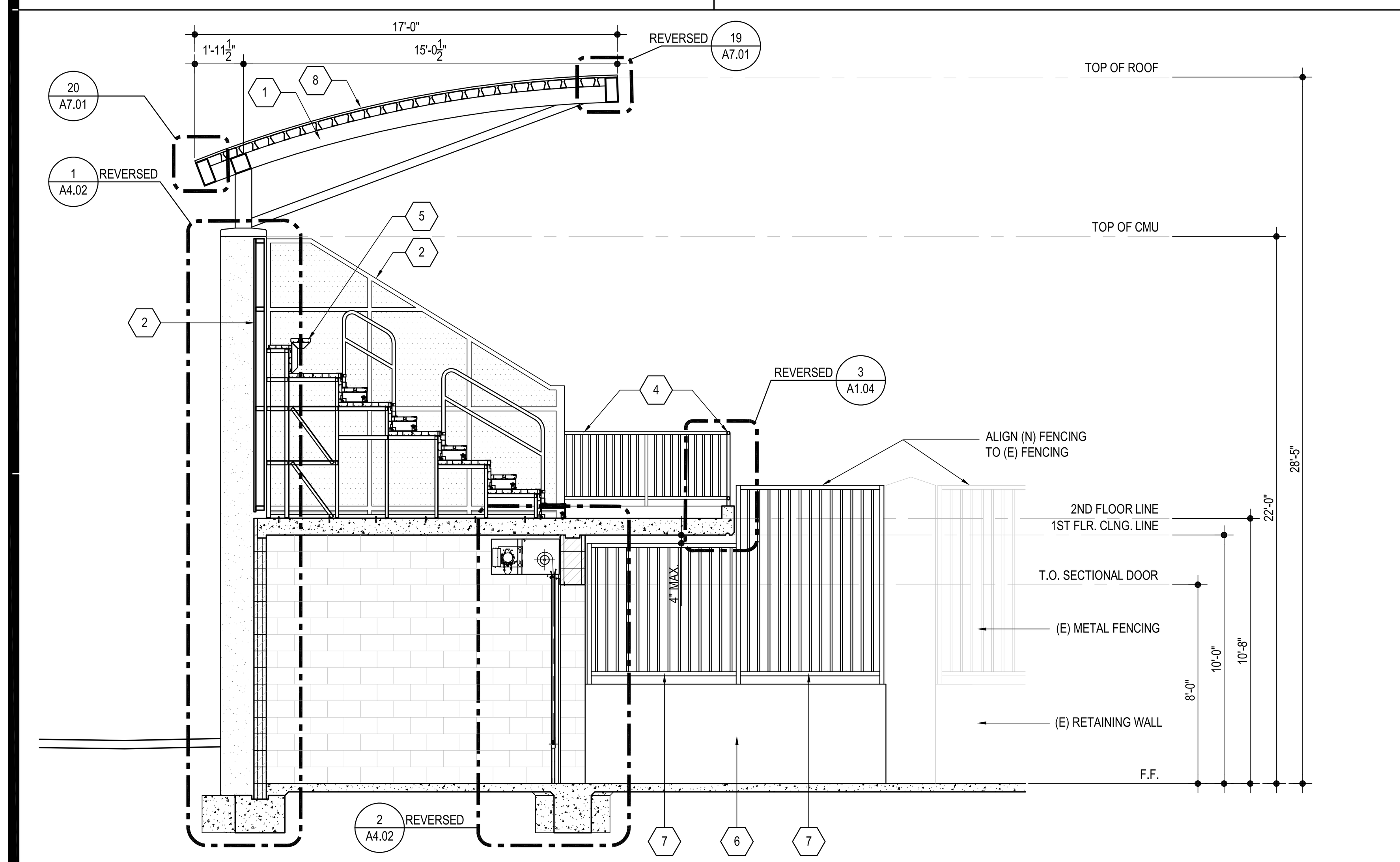
A3.01



TYPICAL EXTERIOR STAIR HANDRAILS

SCALE : 1-1/2"=1'-0"

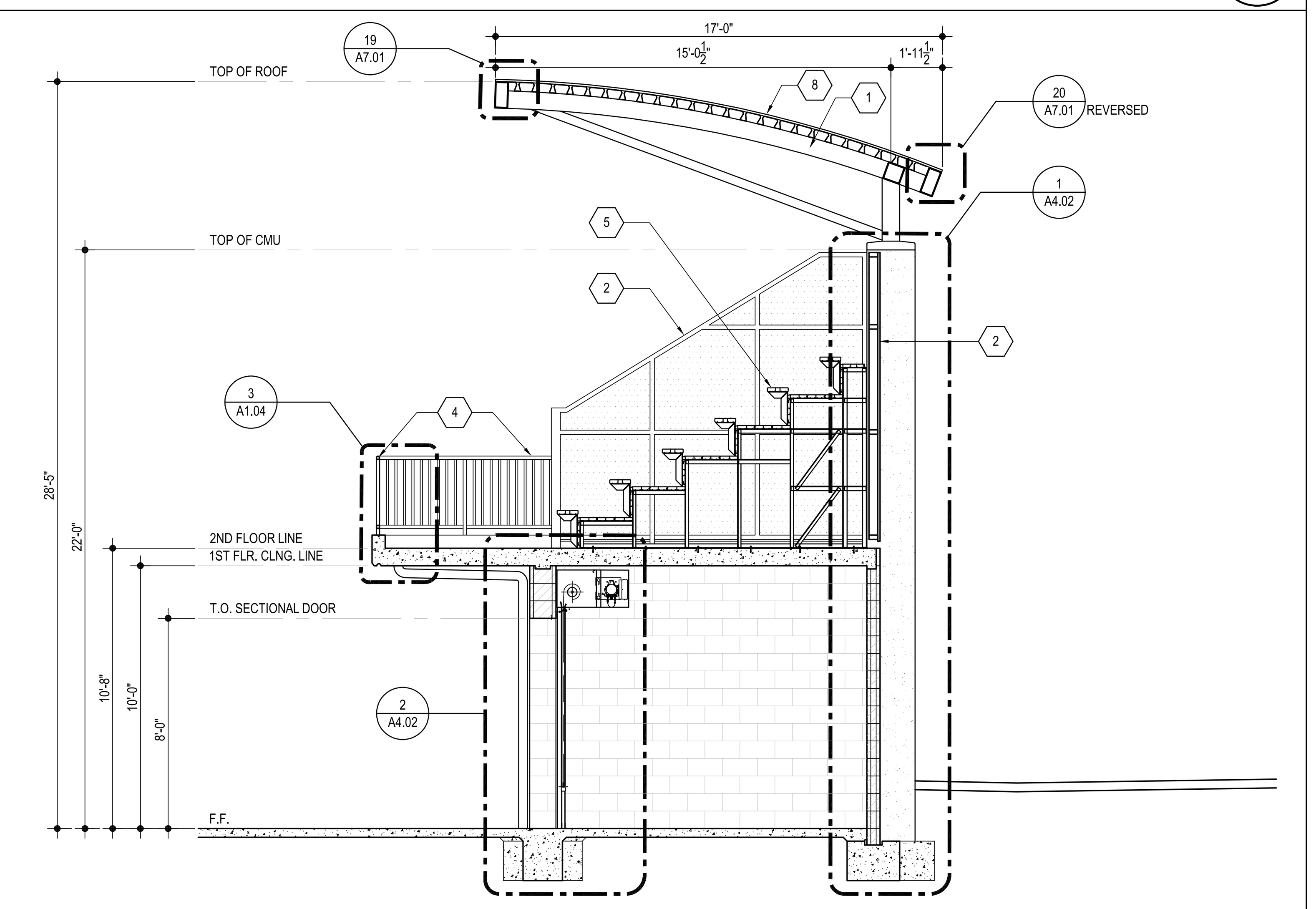
3 / A4.01



SECTION

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

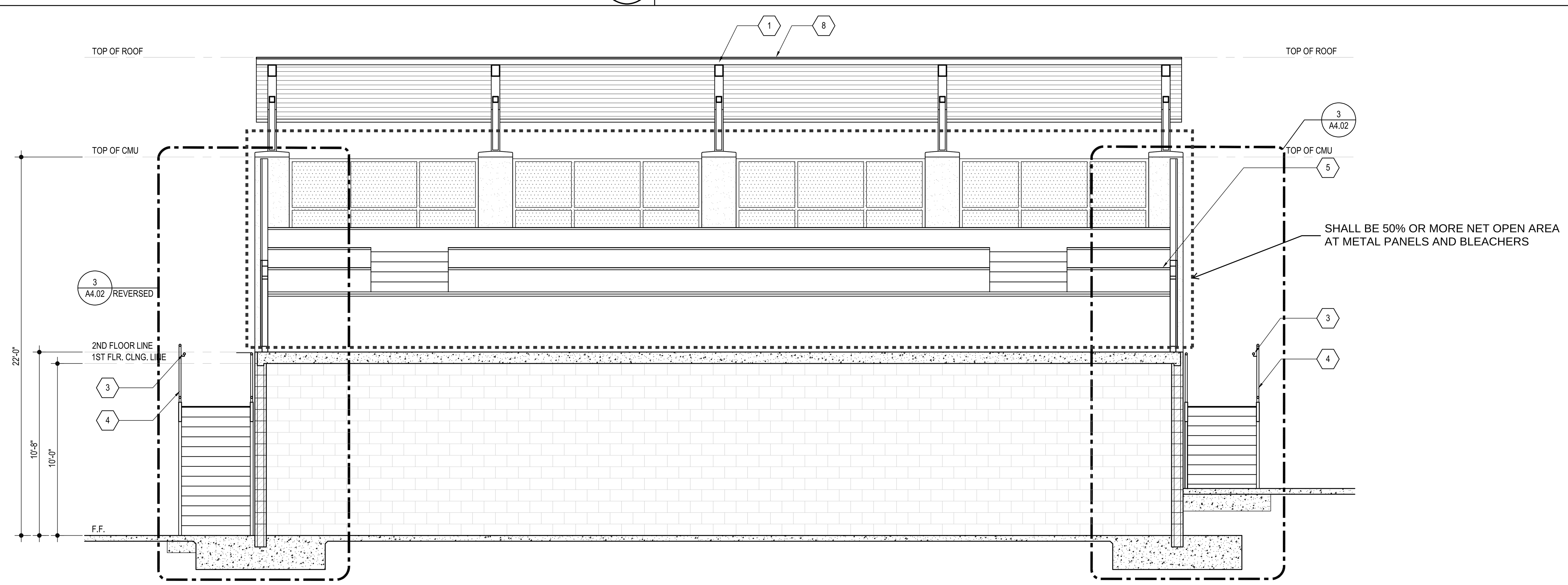
5 / A4.01



SECTION

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

2 / A4.01



SECTION

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

1 / A4.01

GENERAL NOTES

1. REFER TO PLAN DRAWINGS FOR CMU BLOCK THICKNESS AND ALIGNMENT.
2. ALL SPLIT-FACE AND GLAZED TYPE CMU BLOCKS MUST HAVE THE FINISH SIDE FACING THE EXTERIOR.

PATTERN LEGEND AS FOLLOWS:

CONCRETE PILASTER

PRECISION CMU BLOCK

MATERIAL KEYNOTES

1. SHADE STRUCTURE. STRUCTURAL STEEL TO BE PRIMED AND PAINTED - SEE DTL. FR1 / S4.2
2. 4'-0" x 4'-0" DECORATIVE METAL PANEL, OVER PRIMED AND PAINTED STRUCTURAL STEEL
   NOTE: METAL PANEL PERFORATION TO BE 50% OR MORE NET OPEN AREA
3. HAND RAIL
4. GUARD RAIL
5. METAL BLEACHERS
6. RETAINING WALL TO MATCH EXISTING
7. METAL FENCE TO MATCH EXISTING
8. TITE-LOC NON-COMBUSTIBLE METAL ROOFING PANELS (PANEL WEIGHT 1.2 PSF).

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Revisions

No.	Date	Description

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

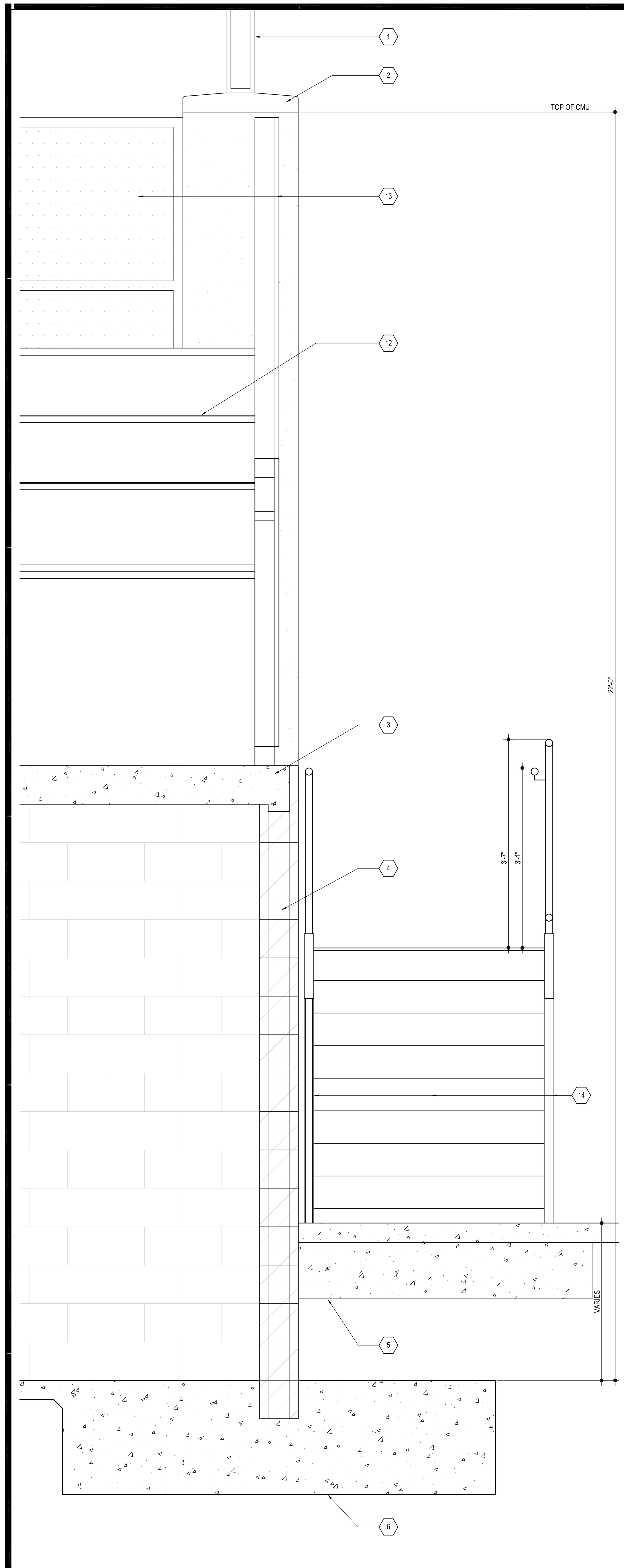
902 NORTH 3RD STREET
BURBANK, CA 91502

SECTIONS

Job No. 2986.0100

Date 04-14-2023

A4.01



WALL SECTION
SCALE : 1" = 1'-0"
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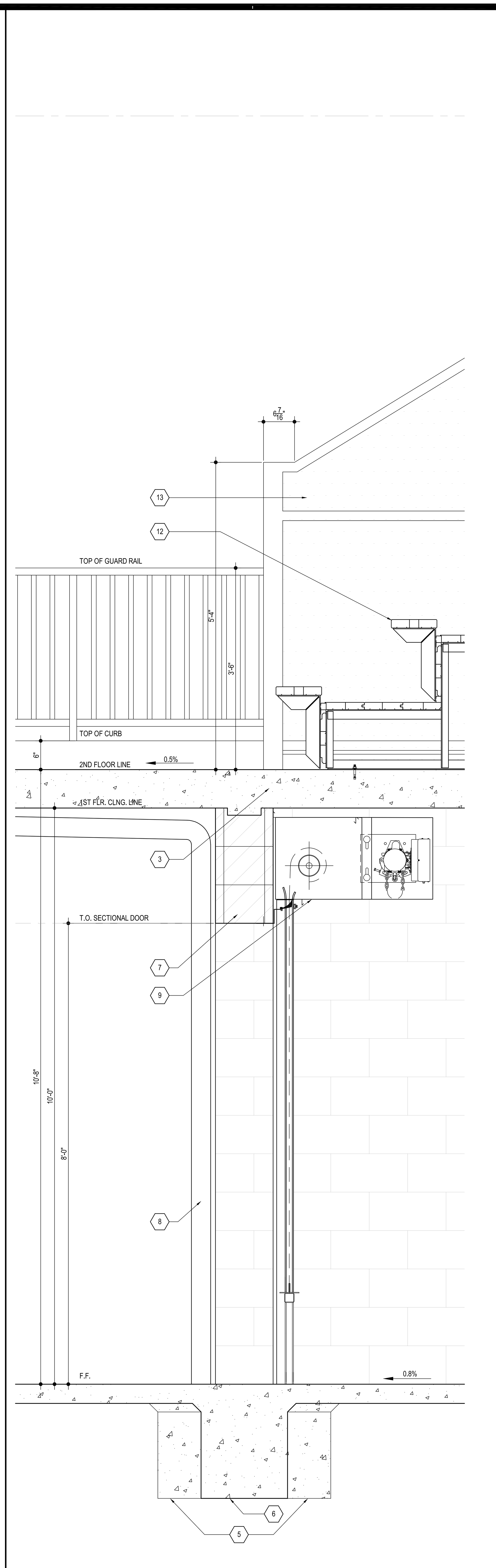
A4.02



WALL SECTION
SCALE : 1" = 1'-0"
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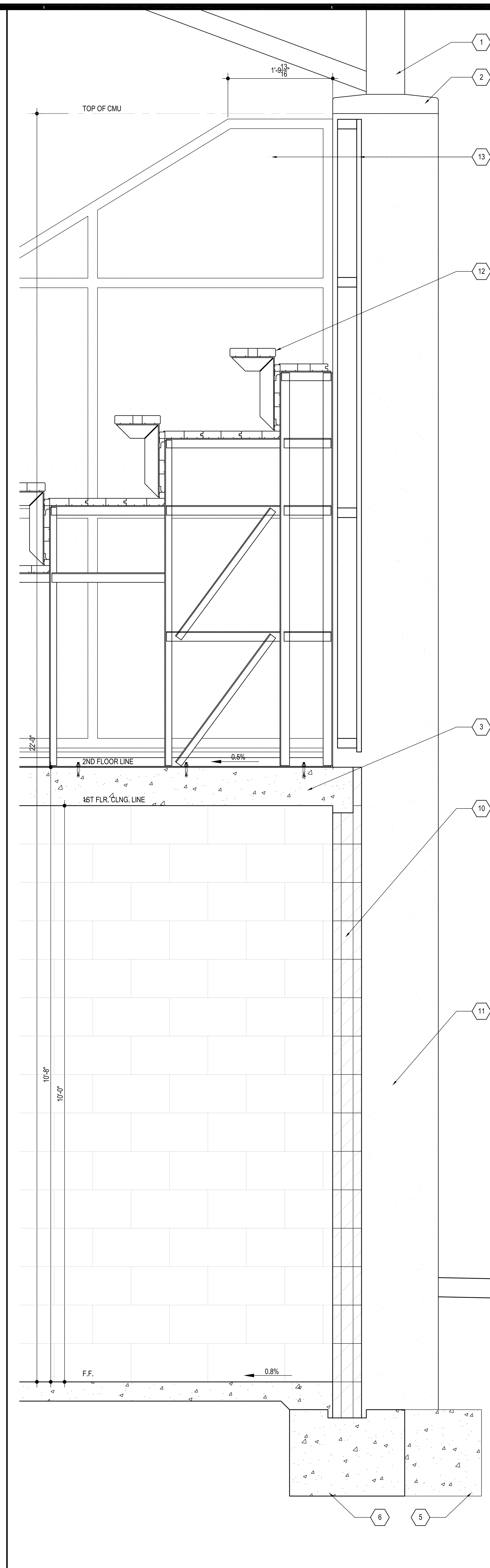
A4.02



WALL SECTION
SCALE : 1" = 1'-0"
1
A4.02

GENERAL NOTES

1. REFER TO PLAN DRAWINGS FOR CMU BLOCK THICKNESS AND ALIGNMENT.
2. ALL SPLIT-FACE AND GLAZED TYPE CMU BLOCKS MUST HAVE THE FINISH SIDE FACING THE EXTERIOR.

MATERIAL KEYNOTES

1. SHADE STRUCTURE. STRUCTURAL STEEL TO BE PRIMED AND PAINTED - SEE DTL. FR1/S4.2
2. CONCRETE WALL CAP
3. 8" +/- CONCRETE SLAB
4. 8" PRECISION CMU BLOCK WALL
5. CONCRETE FOOTING (BEYOND)
6. CONCRETE FOOTING
7. 12" PRECISION CMU BLOCK WALL
8. 4" DRAIN (BEYOND)
9. OVERHEAD ROLL-UP DOOR - SEE DTL. 1/A7.01
10. 6" PRECISION CMU BLOCK WALL
11. 8" SPLIT FACE CMU BLOCK WALL (BEYOND)
12. BLEACHERS - BY SOUTHERN BLEACHER COMPANY
13. 4'-0" x 4'-0" DECORATIVE METAL PANEL, OVER PRIMED AND PAINTED STRUCTURAL STEEL
14. METAL STAIRS AND STRINGER - SEE DTLS. SF1A/S1.3 SF1B/S1.3 4/A2.01 5/A2.01

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN. 64337-111 APPL. 03-123187

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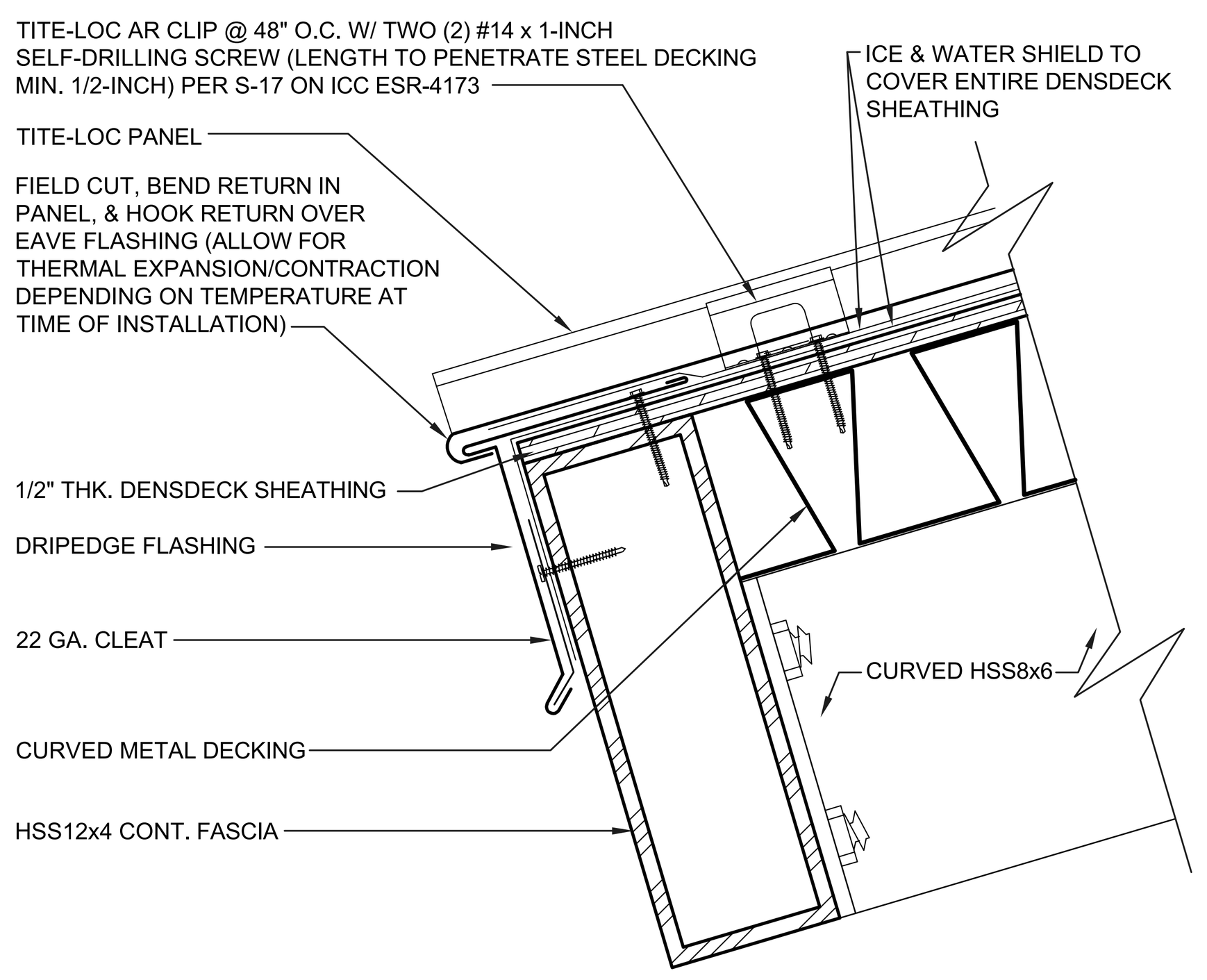
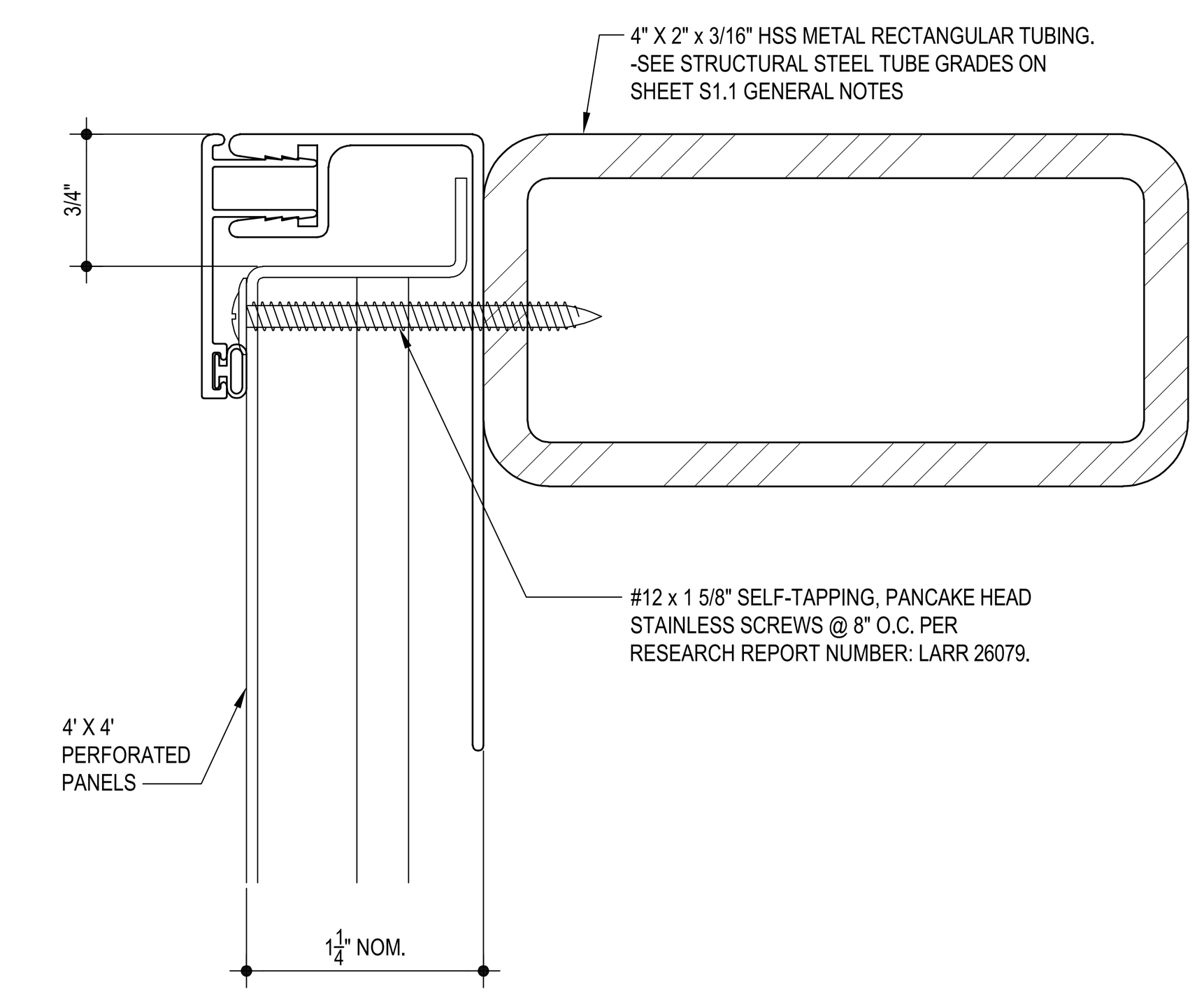


NOTE:
SEE SPECIFICATION SECTION 07 41 13 FOR ADDITIONAL INFORMATION.
TITE-LOC BY PETERSON ALUMINUM CORP. IS NON-COMBUSTIBLE AND COMPLIES WITH ASTM E84.

EAVE DETAIL
SCALE: 3"=1'-0" — 20 / A7.01



NOTE: SEE A3.01 EXTERIOR ELEVATIONS FOR REFERENCE

TYP. HEAD EXTRUSION
SCALE: FULL — 16 / A7.01

INTERIOR FINISH SCHEDULE

● = REQUIRED

ROOM NO.	ROOM NAME	FINISH MATERIALS: FLOOR	BASE	WALLS: N	E	S	W	WAINSCOT: TYPE	HEIGHT	CEILING: TYPE	HEIGHT	PAINTING: WALLS: N	E	S	W	CEILING SOFFIT	METAL DOOR	WOOD DOOR	METAL FRAME	WOOD TRIM	MILLWORK	CABINET	REMARKS
001	ALL GENDER RESTROOM	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
002	ALL GENDER RESTROOM	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
003	OFFICE	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
004	CHLORINE ROOM	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
005	ACID ROOM	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
006	POOL MECHANICAL EQUIP.	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
007	TEAM CHANGING ROOM	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
008	ELECTRICAL ROOM	(E)	(E)	(E)	(E)	(E)	(E)	-	-	(E)	(E)	-	-	-	-		-		-				
009	STORAGE	F2	-	-	-	-	-	-	-	C1	10'-2"	●	●	●	●		●		●				

INTERIOR FINISH NOTES

1. ALL SURFACES WITHOUT A FACTORY FINISH SHALL BE PAINTED AND HAVE A SEMI-GLOSS FINISH.
2. ALL FLOOR FINISHES THAT TERMINATE AT A DOOR OPENING SHALL JOIN ADJACENT FINISHES AT THE CENTERLINE OF DOOR AND / OR TERMINATE BELOW THRESHOLD WHERE OCCURS.
3. REFER TO INTERIOR ELEVATION FOR ADDITIONAL INFORMATION.
4. CERAMIC TILE COVE BASE SHALL HAVE MINIMUM OF 3/8" RADIUS.
5. WALL, CEILING AND FLOOR FINISHES SHALL COMPLY WITH CBC SECTIONS 803.1 AND 804.
6. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LEGEND

FLOORING:
PORCELAIN CERAMIC TILE — F1
SEALED CONCRETE — F2

BASE:
CERAMIC COVE BASE — B1
4" HIGH VINYL BASE — B2

WALL:
CERAMIC TILE O/ CEMENT BOARD — W1
CMU BLOCK — W2

CEILING:
EXPOSED CONCRETE — C1

(E) FINISH TO REMAIN — (E)

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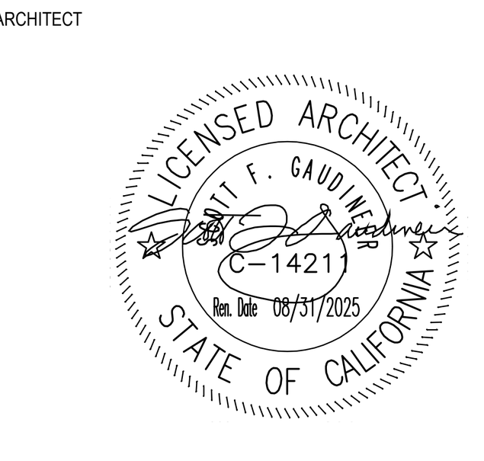
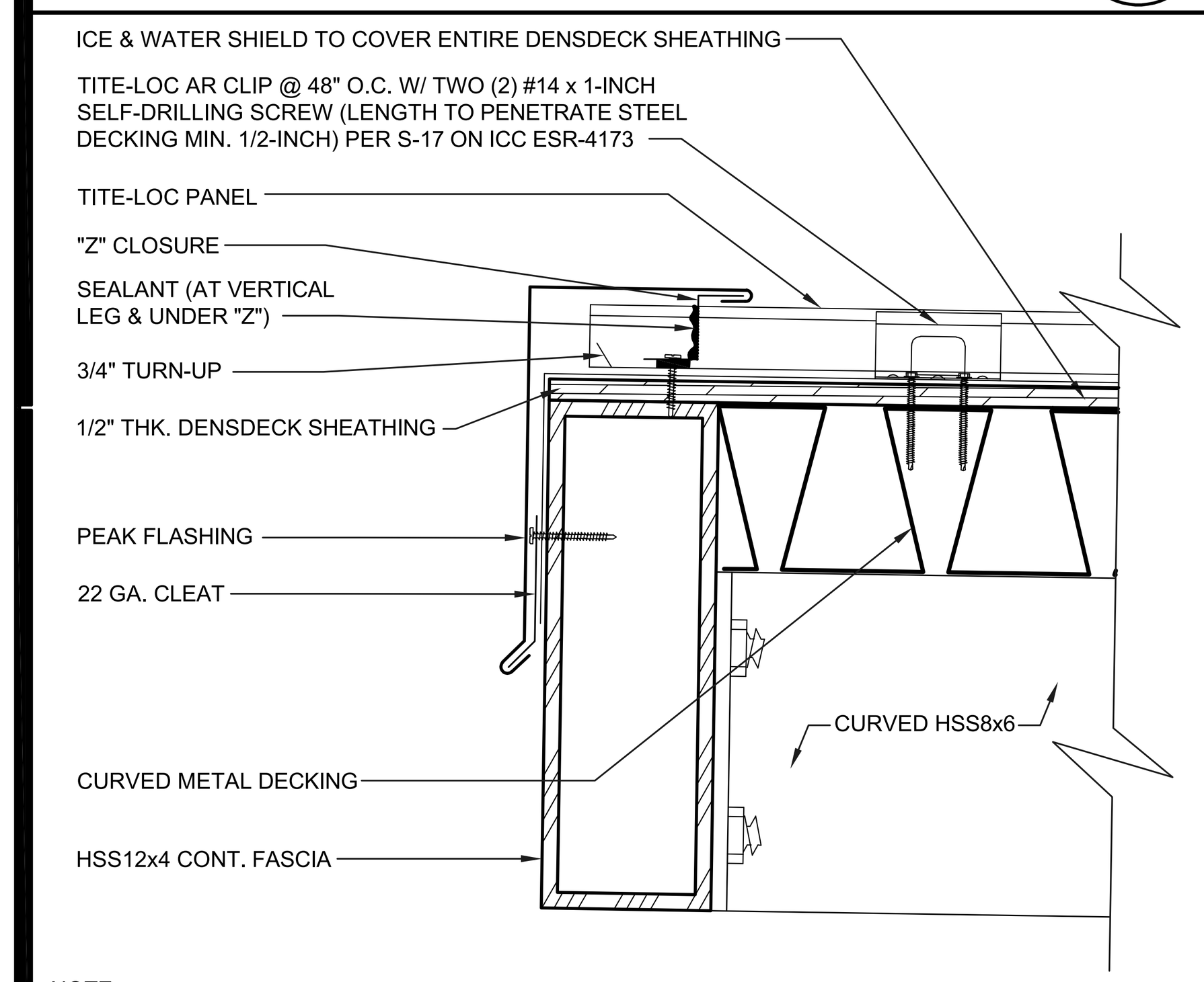
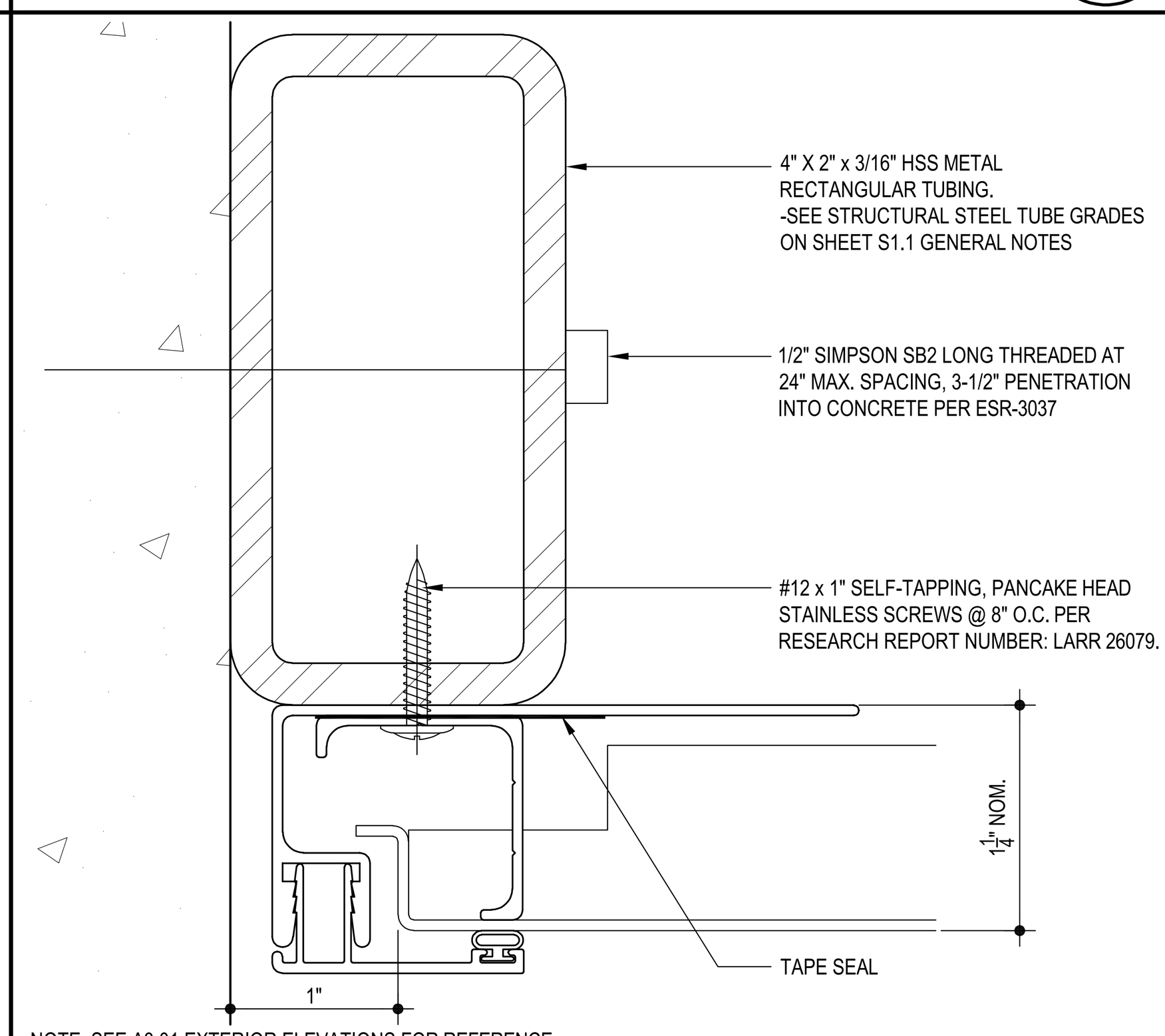




NOTE:
SEE SPECIFICATION SECTION 07 41 13 FOR ADDITIONAL INFORMATION.
TITE-LOC BY PETERSON ALUMINUM CORP. IS NON-COMBUSTIBLE AND COMPLIES WITH ASTM E84.

PEAK DETAIL
SCALE: 3"=1'-0" — 19 / A7.01



NOTE: SEE A3.01 EXTERIOR ELEVATIONS FOR REFERENCE

TYP. JAMB EXTRUSION
SCALE: FULL — 15 / A7.01

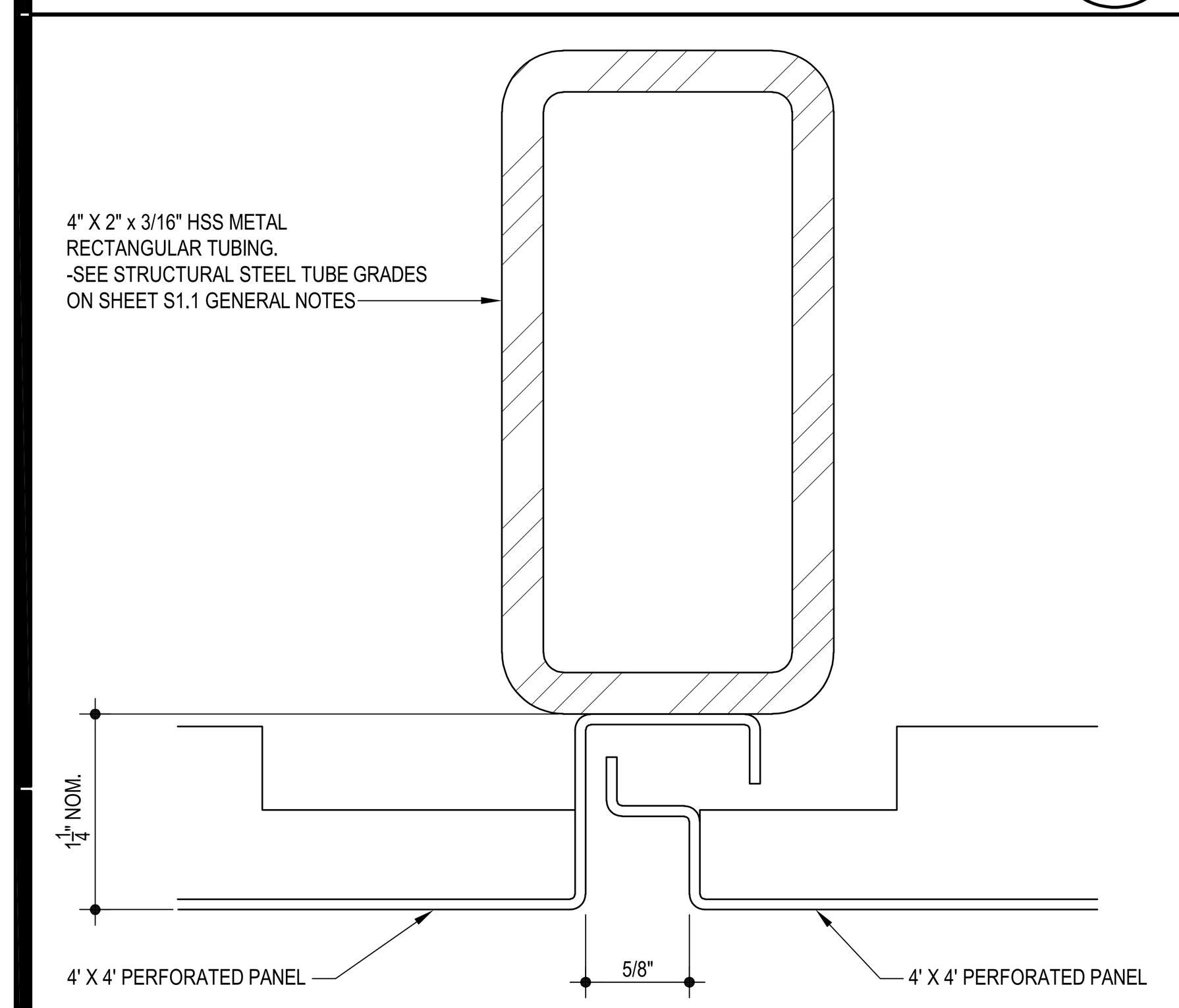
DOOR SCHEDULE

DOOR NO.	DOOR: TYPE	SIZE	SWING	MAT'L	FINISH	FRAME: MAT'L	FINISH	DETAILS: HEAD	JAMB	THRESHOLD	HDWR SET	FIRE RATING	REMARKS
009A	B	18'-0" X 8'-0"	ROLL UP	ALUM	ANOD	ALUM	ANOD	1A7.01	5/A7.01	-	-	-	DOOR HARDWARE BY MANUFACTURER
009B	B	18'-0" X 8'-0"	ROLL UP	ALUM	ANOD	ALUM	ANOD	1/A7.01	5/A7.01	-	-	-	DOOR HARDWARE BY MANUFACTURER
009C	C	3'-2" X 7'-0" X 1 3/4"	90	HM	PTD	HM	PTD	13/A7.01	13/A7.01	9/A7.01	2.0	-	

DOOR NOTES

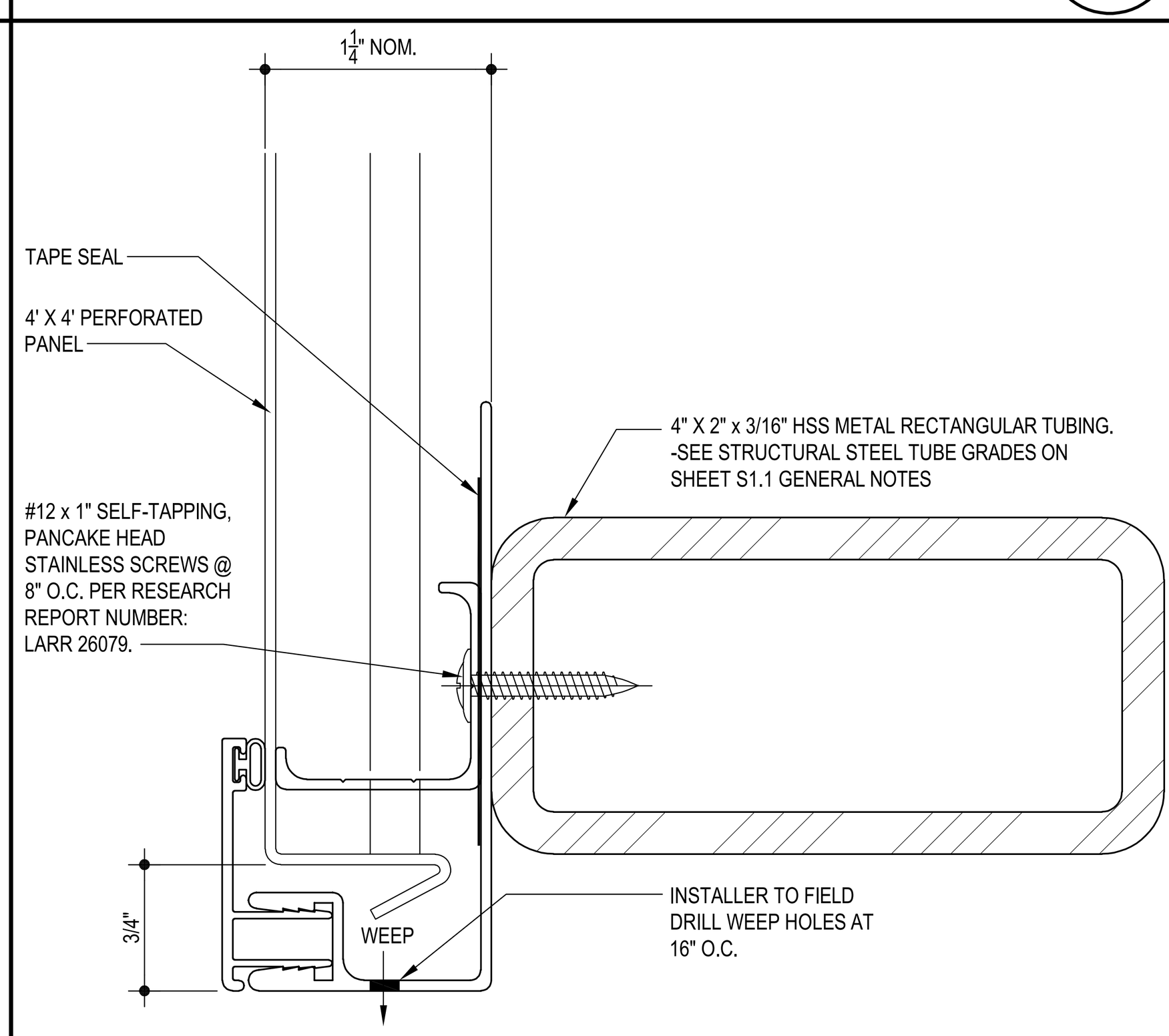
1. ALL BUILDING EXIT DOORS AND GATES IN EXIT PATHWAYS, INCLUDING BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF TITLE 24, CCR.
2. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE ACCESSIBLE BY THE DISABLED. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. AT ALL EXTERIOR, INTERIOR, AND FIRE DOORS.
3. EXIT DOORS SHALL BE OF THE PIVOTED, BALANCED OR SIDE-HINGED SWINGING TYPE. REVOLVING, SLIDING AND OVERHEAD DOORS SHALL NOT BE USED AS REQUIRED EXIT DOORS.
4. ALL EXIT DOORS SHALL BE NOT LESS THAN 3 FT. WIDE, 6'-8" HIGH, SHALL HAVE A CLEAR EXIT WAY WIDTH OF NOT LESS THAN 32", AND SHALL BE CAPABLE OF OPENING 90 DEGREES. THE MAXIMUM DOOR LEAF WIDTH IS 4'-0" WHEN SERVING AN OCCUPANT LOAD OF 10 OR MORE.
5. IN ALL DOORS, HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 AND 44 INCHES ABOVE THE FLOOR.
6. ALL PIN-TYPE DOOR HINGES ACCESSIBLE FROM OUTSIDE SHALL HAVE NON-REMOVABLE HINGE PINS. HINGES SHALL HAVE MIN. 1/4" DIA. STEEL JAMB STUD WITH 1/4" MIN. PROTECTION. THE STRIKE PLATE FOR LATCHES AND HOLDING DEVICE FOR PROJECTING DEAD BOLTS IN WOOD CONSTRUCTION SHALL BE SECURED TO THE JAMB AND THE WALL FRAMING WITH SCREWS NO LESS THAN 2-1/2" LONG.
7. DEAD BOLTS SHALL HAVE HARDENED INSERTS. DEADLOCKING LATCH WITH KEY-OPERATED LOCKS SHALL BE PROVIDED AT EXTERIOR DOORS. LOCKS MUST BE OPENABLE FROM INSIDE WITHOUT KEY, SPECIAL KNOWLEDGE OR SPECIAL EFFORT (LATCH NOT REQUIRED IN B, F, AND S OCCUPANCIES). STRAIGHT DEAD BOLTS SHALL HAVE A MIN. THROW OF 1" AND AN EMBEDMENT OF NOT LESS THAN 5/8". A HOOK-SHAPED OR AN EXPANDING-LUG DEADBOLT SHALL HAVE A MINIMUM THROW OF 3/4".
8. MAXIMUM HEIGHT OF THRESHOLD SHALL BE 1/2" WITH A MAXIMUM BEVEL OF 45 DEGREES. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
9. THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF THE DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF THE DOOR SWING OF 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION.

CONSULTANT



NOTE: SEE A3.01 EXTERIOR ELEVATIONS FOR REFERENCE

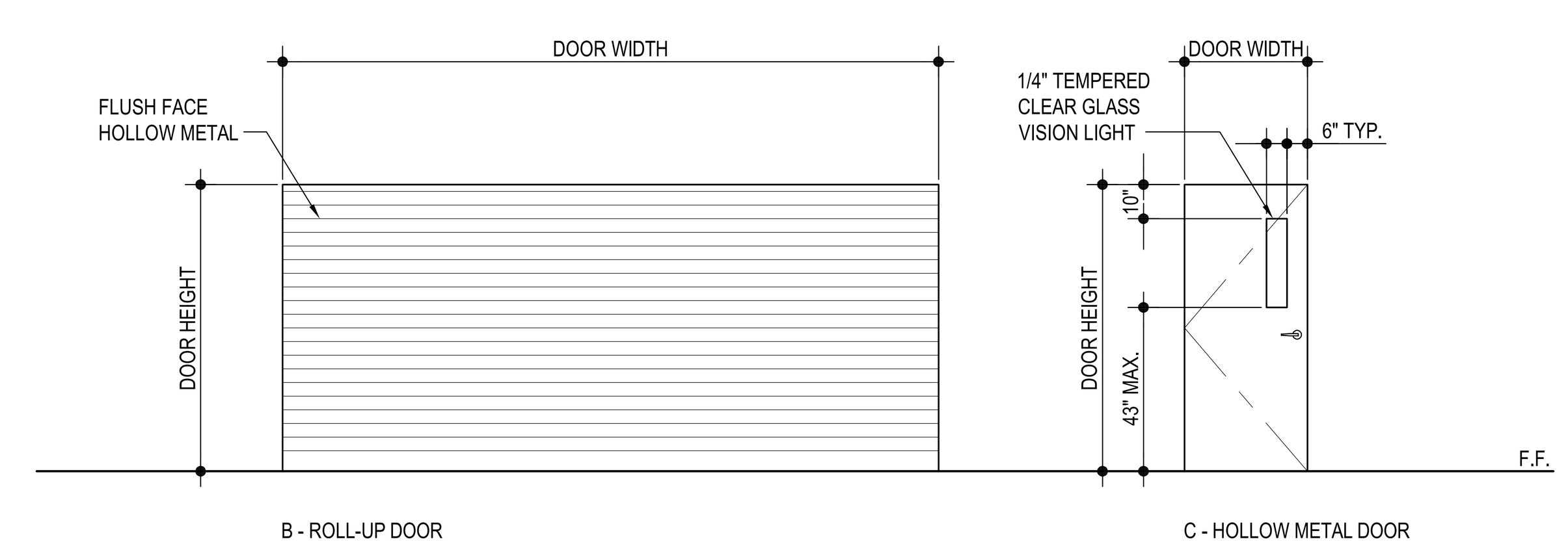
TYP. VERTICAL JOINT
SCALE: FULL — 18 / A7.01

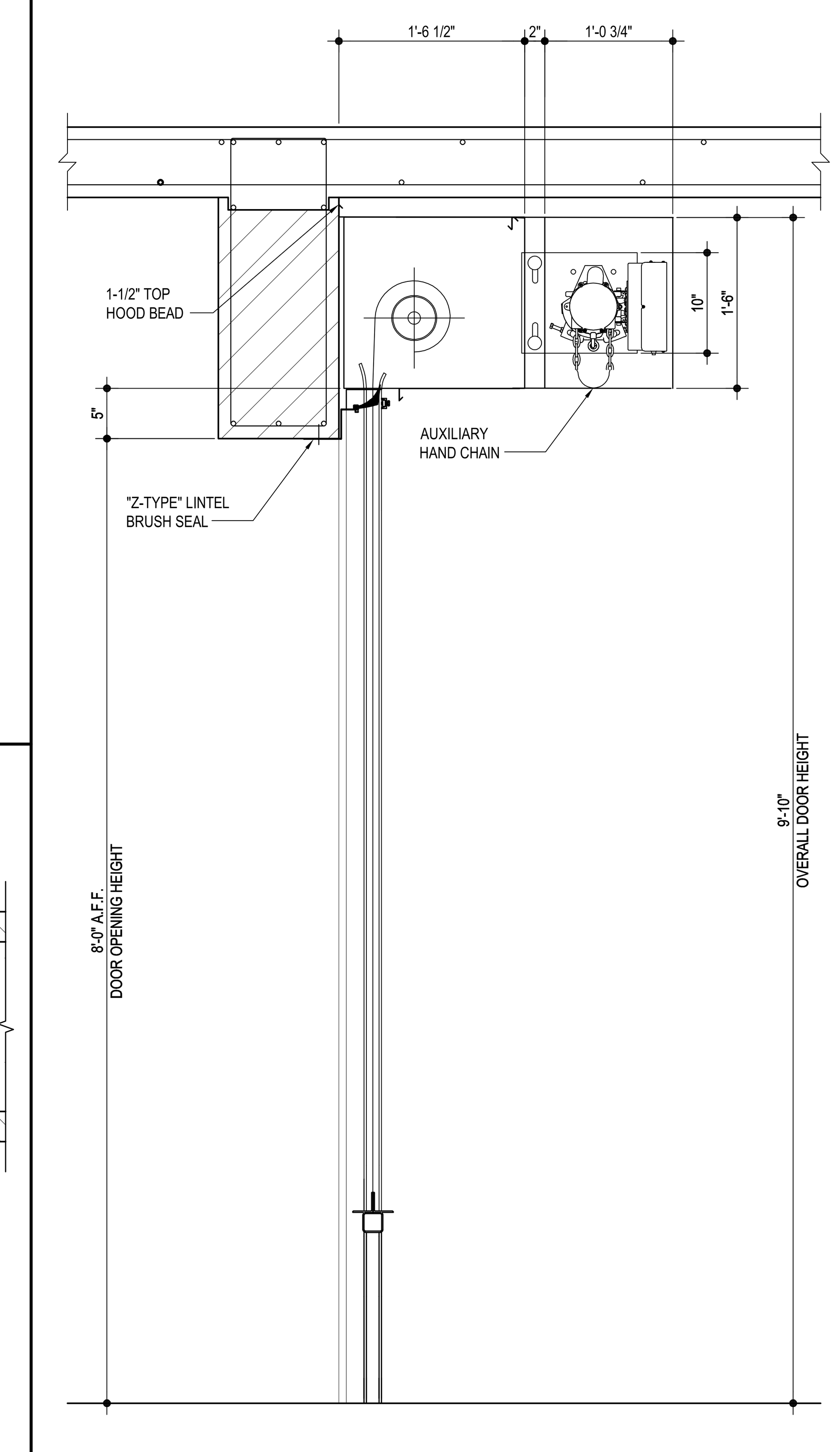


NOTE: SEE A3.01 EXTERIOR ELEVATIONS FOR REFERENCE

TYP. SILL W/ "J" EXTRUSION
SCALE: FULL — 14 / A7.01

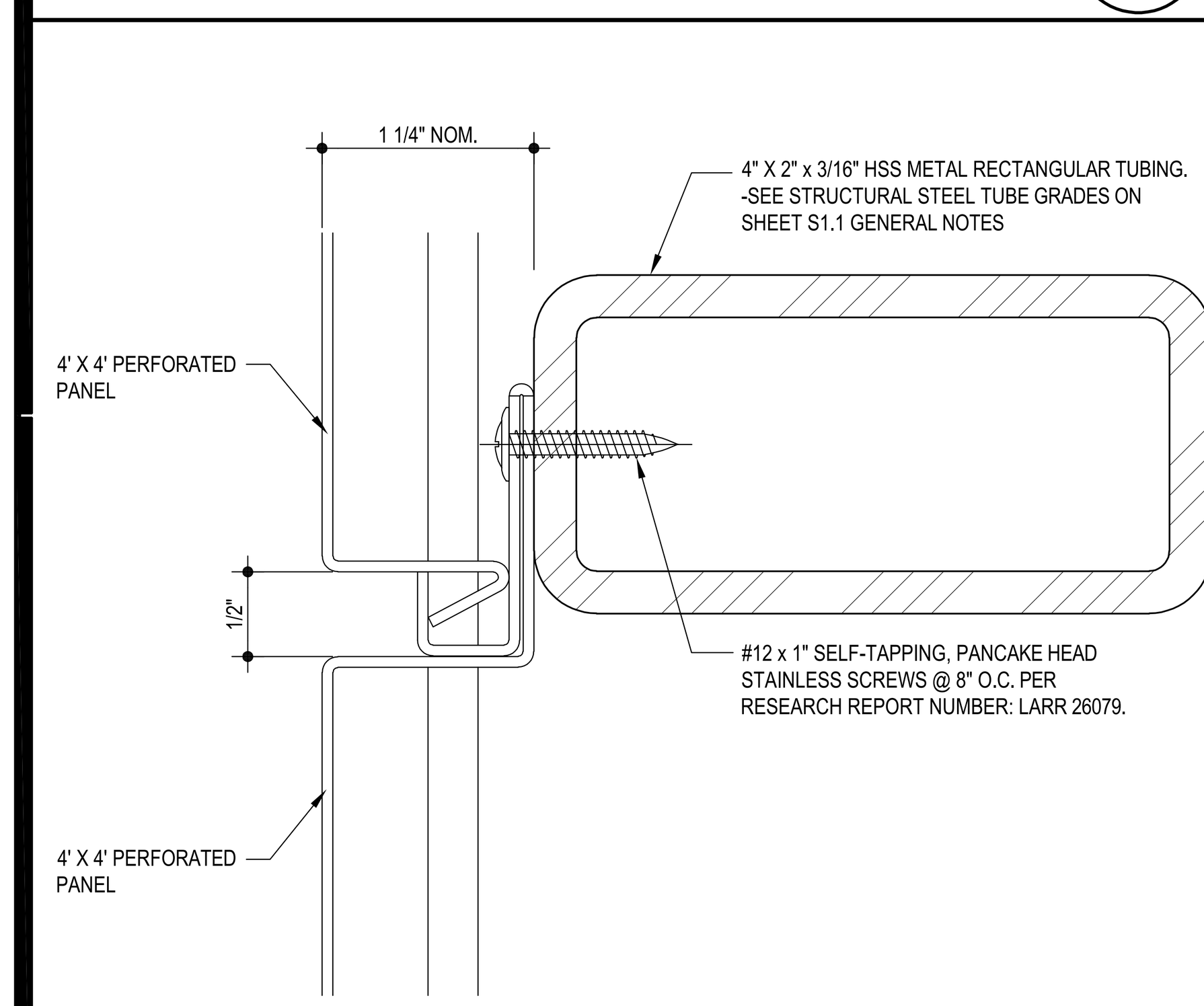
DOOR TYPES





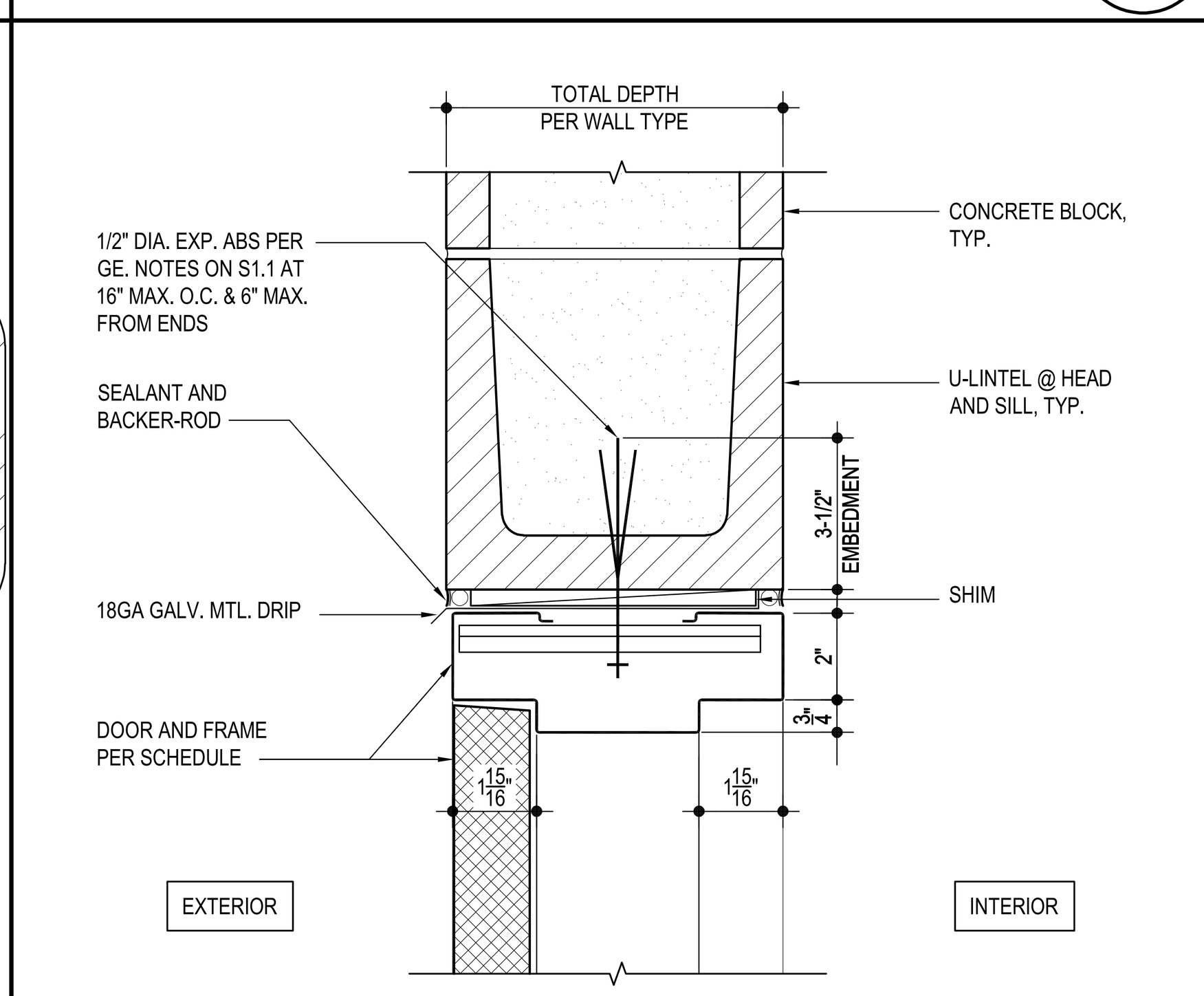
NOTE: SEE DETAIL 6/A2.02 FOR ADDITIONAL COIL SERVICE DOOR INFORMATION

ROLLING DOOR SECTION
SCALE: 1"=1'-0" — 1 / A7.01

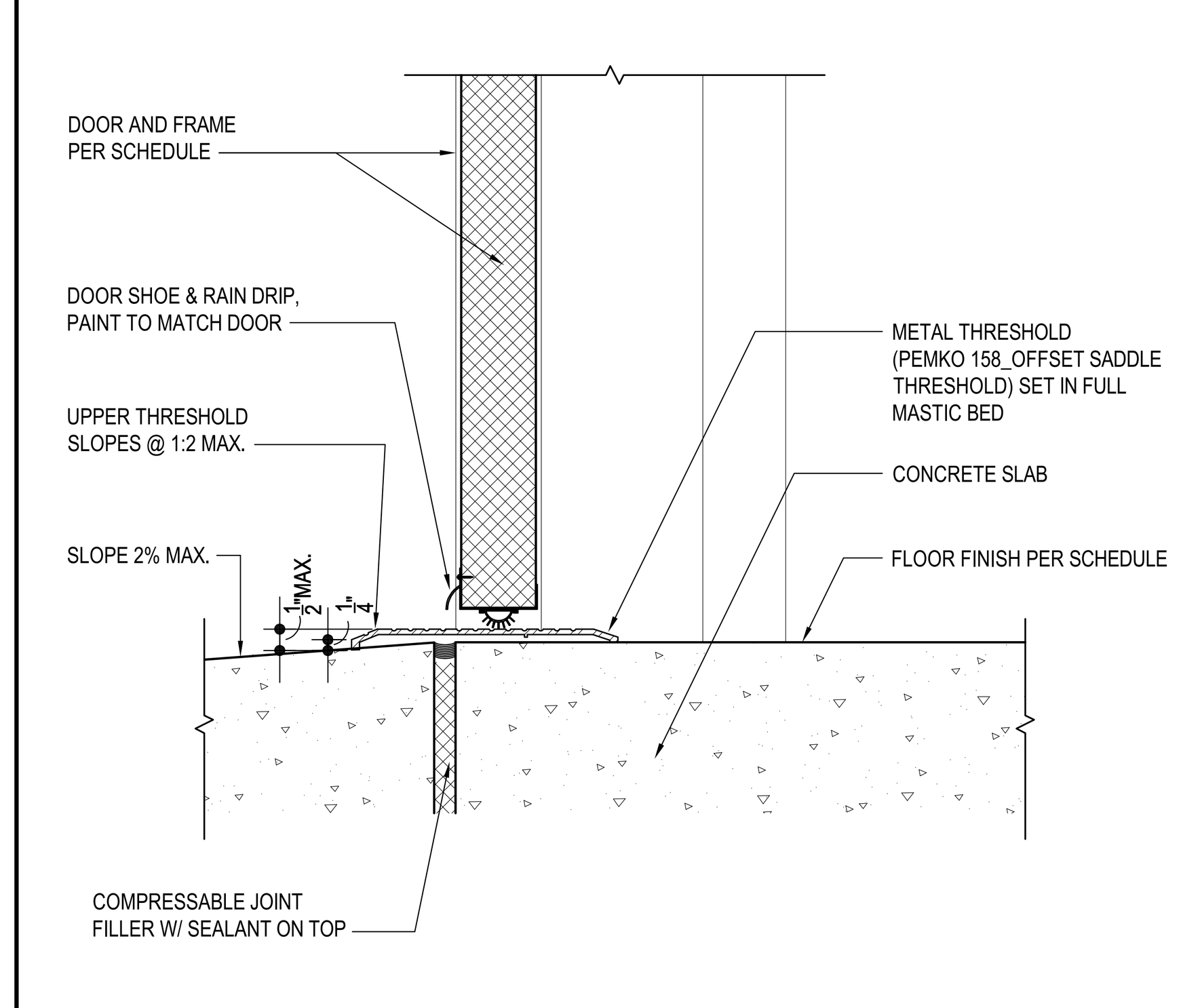


NOTE: SEE A3.01 EXTERIOR ELEVATIONS FOR REFERENCE

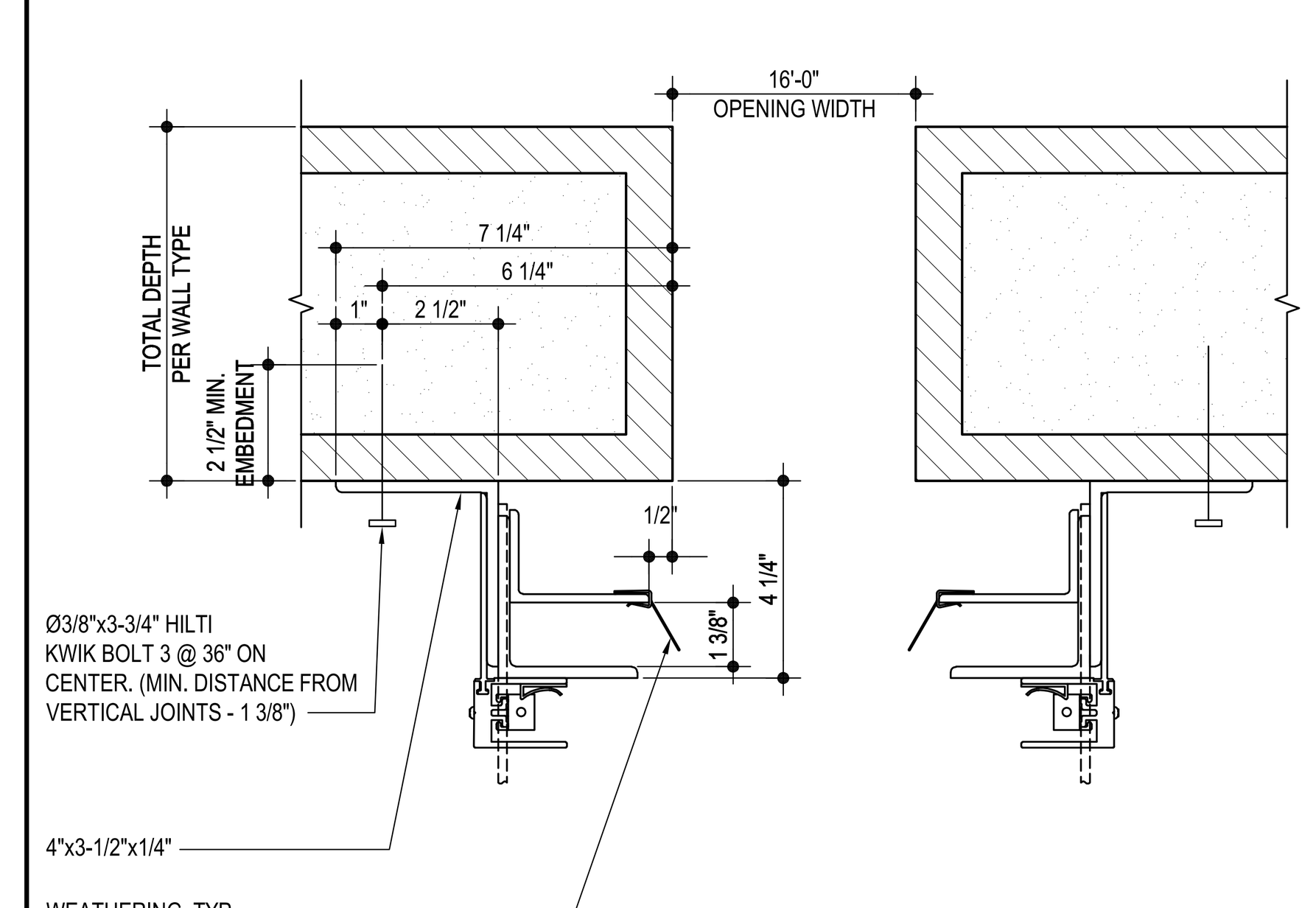
TYP. HORIZONTAL JOINT
SCALE: FULL — 17 / A7.01



DOOR HEADER @ CMU (JAMB SIM.)
SCALE: 3"=1'-0" — 13 / A7.01



EXTERIOR DOOR THRESHOLD DETAIL
SCALE: 3"=1'-0" — 9 / A7.01



NOTE: SEE DETAIL 6/A2.02 FOR ADDITIONAL COIL SERVICE DOOR INFORMATION

ROLLING DOOR JAMB
SCALE: 3"=1'-0" — 5 / A7.01

Drawn by -
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BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

902 NORTH 3RD STREET
BURBANK, CA 91502

INTERIOR & DOOR FINISH SCHEDULE & DOOR DETAILS

Job No. 2986.0100
Date 04-14-2023

A7.01

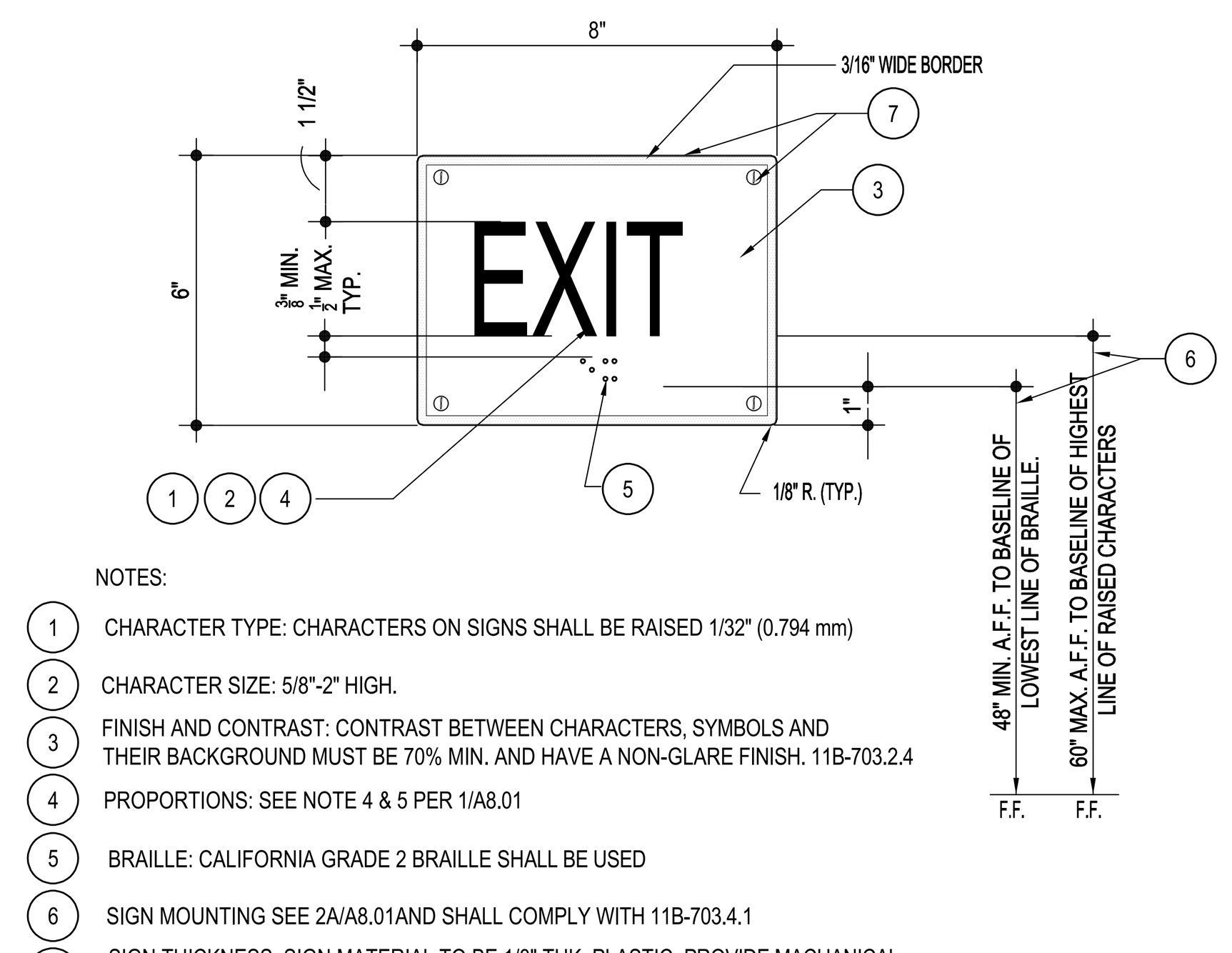
EXISTING ELEVATOR (12)


S


T

EXISTING ELEVATOR
A# 105549
SCALE : NTS — 12 A8.01

EXIT SIGN (ACCESSIBLE) (8)



NOTES:

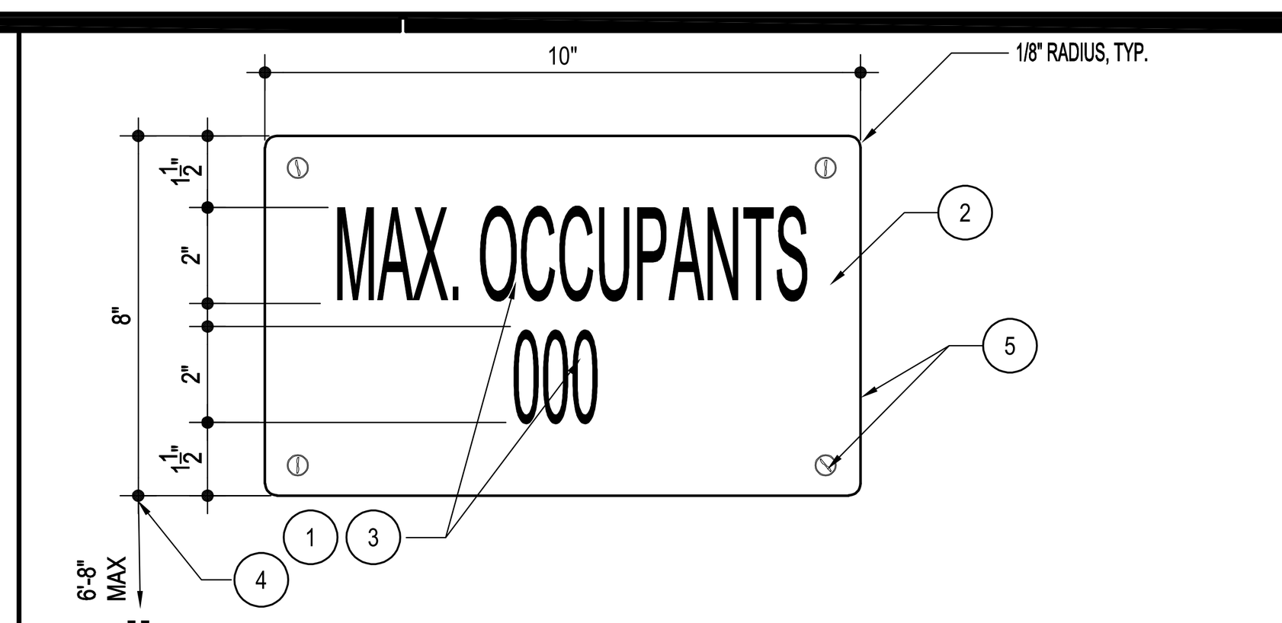
1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm)
2. CHARACTER SIZE: 5/8"-2" HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.2.4
4. PROPORTIONS: SEE NOTE 4 & 5 PER 1/A8.01
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED
6. SIGN MOUNTING SEE 2A/A8.01AND SHALL COMPLY WITH 11B-703.4.1
7. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC, PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.

SIGN SHALL BE INSTALLED AT THE INTERIOR LATCH SIDE OF ALL DOORS EXITING TO THE BUILDING'S EXTERIOR.

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A8.01

EXIT SIGN (ACCESSIBLE) — E — 8 A8.01
SCALE : 3"=1'-0"

MAXIMUM OCCUPANCY SIGN (4)



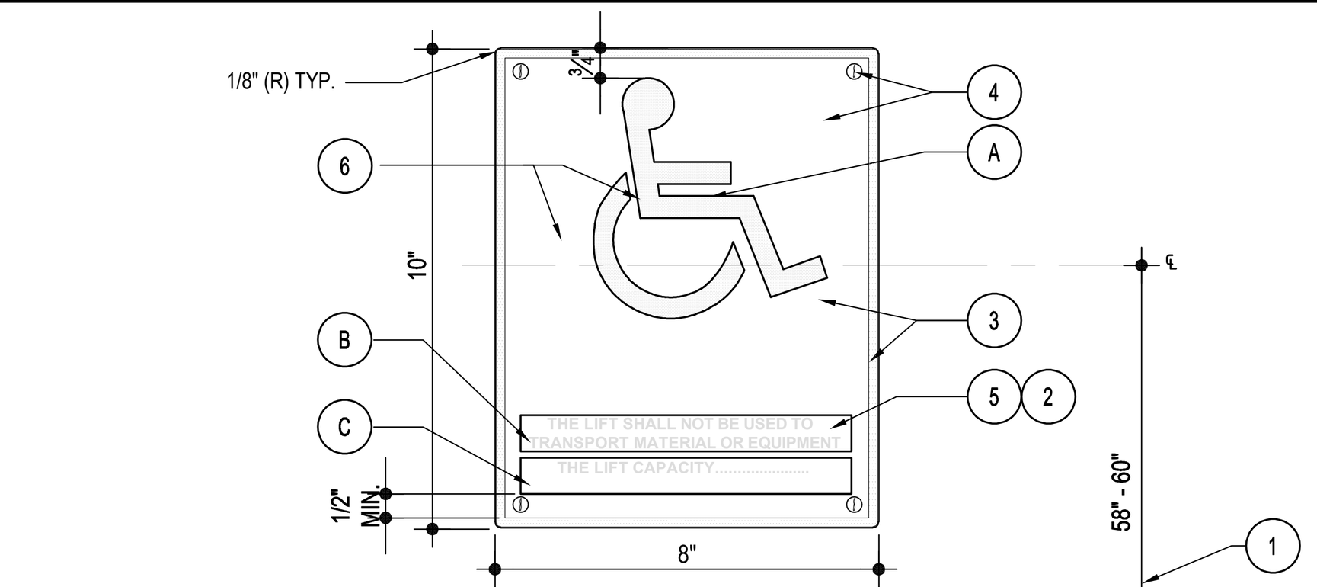
NOTES:

1. CHARACTER TYPE & SIZE: SHALL BE PAINTED 2" MAX. HIGH
2. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1
3. PROPORTIONS: SEE NOTE 4 & 5 PER 1/A8.01
4. SIGN MOUNTING: SEE 2A/A8.01
5. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK PLASTIC AND PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.
6. MAXIMUM OCCUPANT LOAD: SEE SHEET A1.03 FOR OCCUPANT LOAD NUMBER

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A8.01
LOCATED ON THE INSIDE OF THE ROOM AS SHOWN ON INTERIOR ELEVATIONS

MAXIMUM OCCUPANCY SIGN — MO — 4 A8.01
SCALE : 3"=1'-0"

WHEELCHAIR LIFT (ACCESSIBLE) (11)



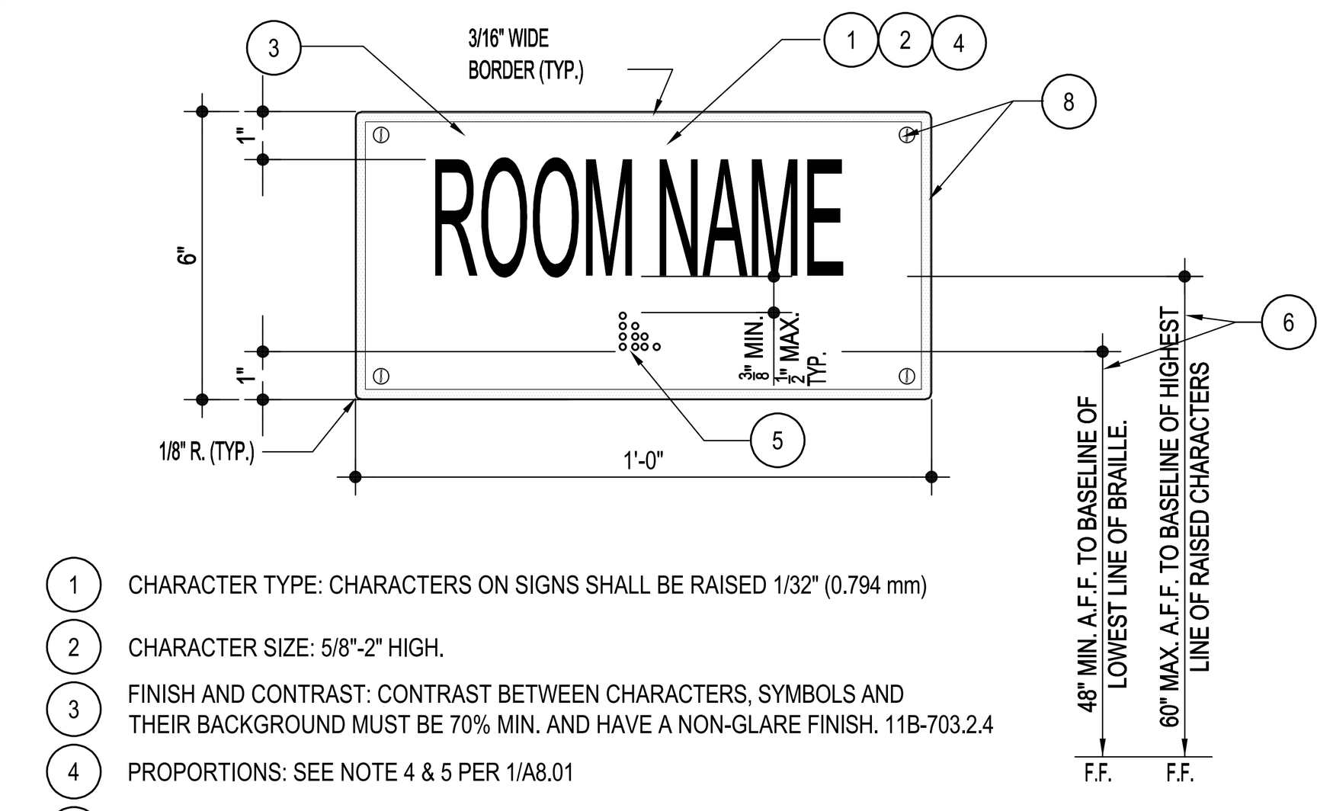
SIGNS CONSPICUOUSLY POST AT EACH LANDING MUST INDICATE THE FOLLOWING

- A. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) SEE 9/A8.01
- B. THE LIFT SHALL NOT BE USED TO TRANSPORT MATERIALS OR EQUIPMENT.
- C. THE LIFT CAPACITY (SPECIFY MAX. WEIGHT)

1. SIGN MOUNTING: SEE 3/A3.01 EXTERIOR ELEVATIONS
2. PROPORTIONS: SEE NOTE 4 & 5 PER 1/A8.01
3. SIGN TO HAVE BLUE LETTER AND 3/16 WIDE BORDER WITH WHITE BACKGROUND
4. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC W/1/32 RAISED BORDER, PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS
5. CHARACTER SIZE: 5/8"-2" HIGH.
6. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1

WHEELCHAIR LIFT (ACCESSIBLE) — WCL — 11 A8.01
SCALE : 3"=1'-0"

ROOM IDENTIFICATION SIGN/ ROOM NUMBERS SIGN (ACCESIBLE) (7)

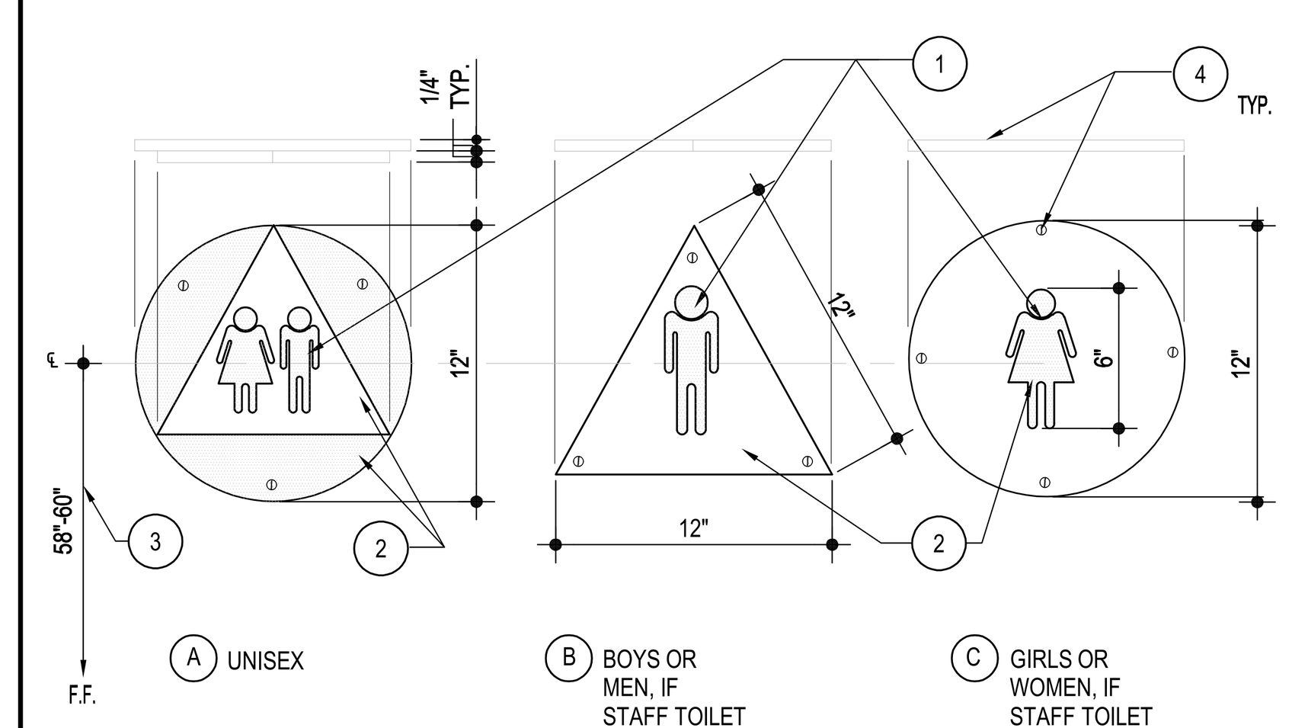


1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm)
2. CHARACTER SIZE: 5/8"-2" HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.2.4
4. PROPORTIONS: SEE NOTE 4 & 5 PER 1/A8.01
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED
6. SIGN MOUNTING: SEE 2B/A8.01 AND SHALL COMPLY WITH 11B-703.4.1
7. SIGN TO HAVE GREEN LETTER AND 3/16 W. BORDER WITH WHITE BACKGROUND
8. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC W/1/32 RAISED BORDER, PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A8.01

ROOM IDENTIFICATION SIGN/
ROOM NUMBERS SIGN (ACCESIBLE) — RI — 7 A8.01
SCALE : 3" = 1'-0"

TOILET ROOM DOOR SIGN (3)



- A. UNISEX
- B. BOYS OR MEN, IF STAFF TOILET
- C. GIRLS OR WOMEN, IF STAFF TOILET

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE PAINTED
2. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1
3. SIGN MOUNTING: SEE 2B/A8.01 AND SHALL COMPLY WITH 11B-703.5.6
4. SIGN THICKNESS: SIGN MATERIAL TO BE 1/4" THK PLASTIC AND PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A8.01

TOILET ROOM DOOR SIGN — TDS — 3 A8.01
SCALE : 1 1/2" = 1'-0"

EXISTING ACCESSIBLE DOORS (13)


D

NEW INTERNATIONAL SYMBOL OF ACCESSIBILITY PER DETAIL 9/A8.01 — 9 A7.01 — C

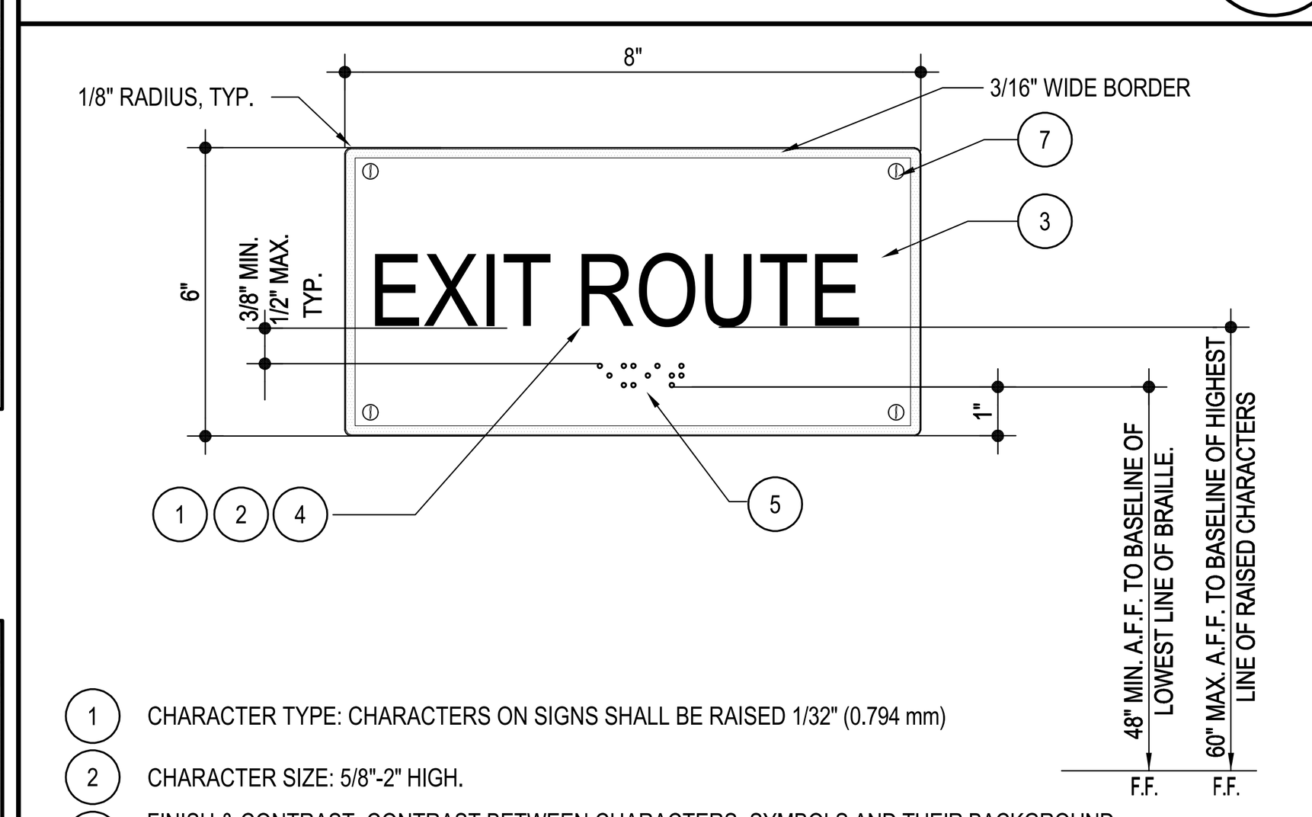

B

NEW INTERNATIONAL SYMBOL OF ACCESSIBILITY PER DETAIL 9/A8.01 — A — 9 A7.01

NOTE: ADJUST ALL EXISTING DOORS ALONG THE P.O.T. TO 5LB MAX. OPERABLE PRESSURE

EXISTING ACCESSIBLE DOORS
A# 105549
SCALE : NTS — 13 A8.01

EXIT ROUTE SIGNAGE (ACCESSIBLE) (10)

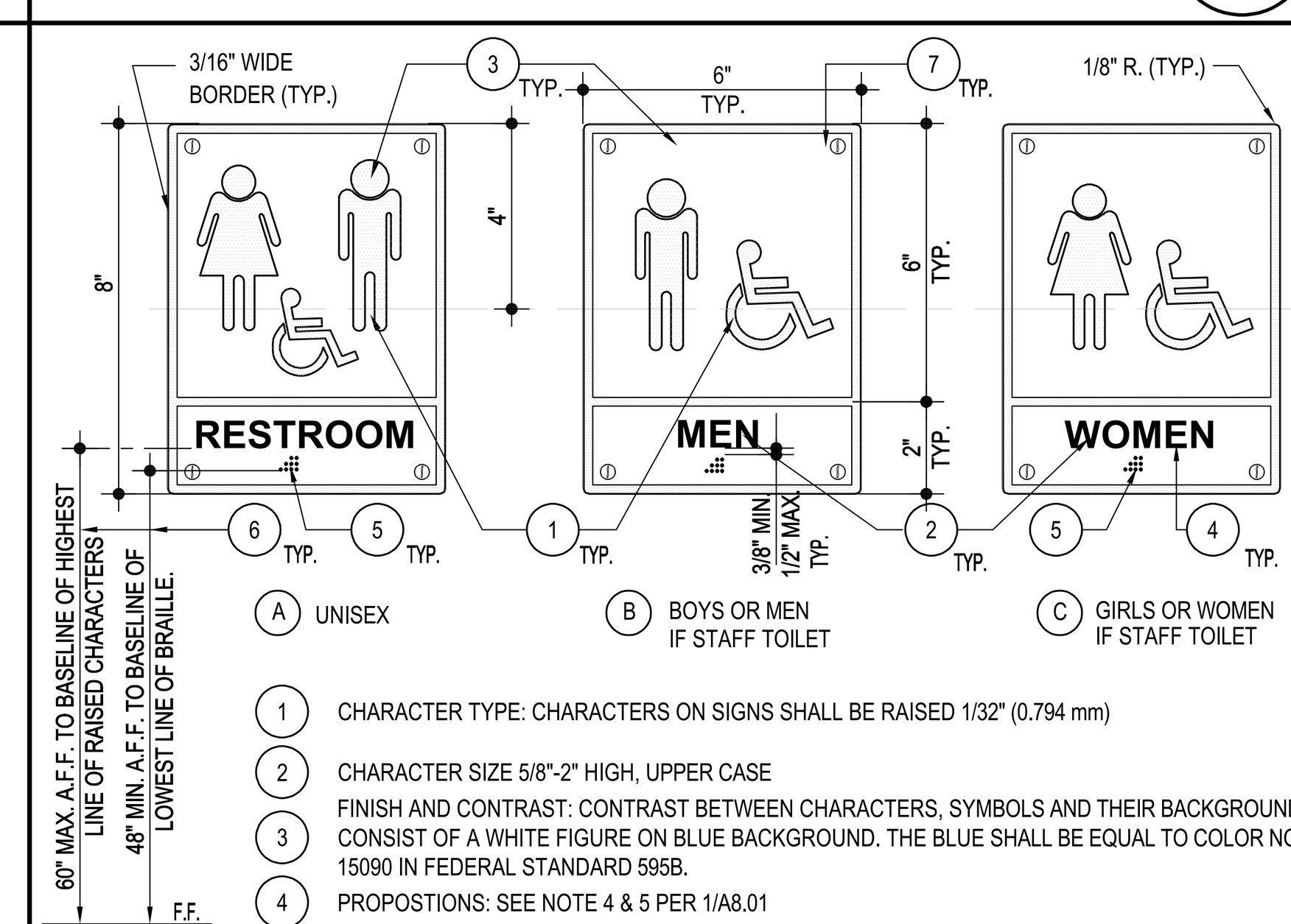


1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm)
2. CHARACTER SIZE: 5/8"-2" HIGH.
3. FINISH & CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.2.4
4. PROPORTIONS: SEE NOTE 4 & 5 PER 1/A8.01
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED
6. SIGN MOUNTING: SHALL COMPLY WITH 11B-703.4.1 AND SEE 2A/A8.01
7. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC, PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.
SIGN SHALL BE INSTALLED AT THE INTERIOR LATCH SIDE OF ALL DOORS EXITING TO THE BUILDING'S EXTERIOR.

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A8.01

EXIT ROUTE SIGNAGE (ACCESSIBLE) — ER — 10 A8.01
SCALE : 3" = 1'-0"

TOILET ROOM WALL SIGN (ACCESSIBLE) (6)



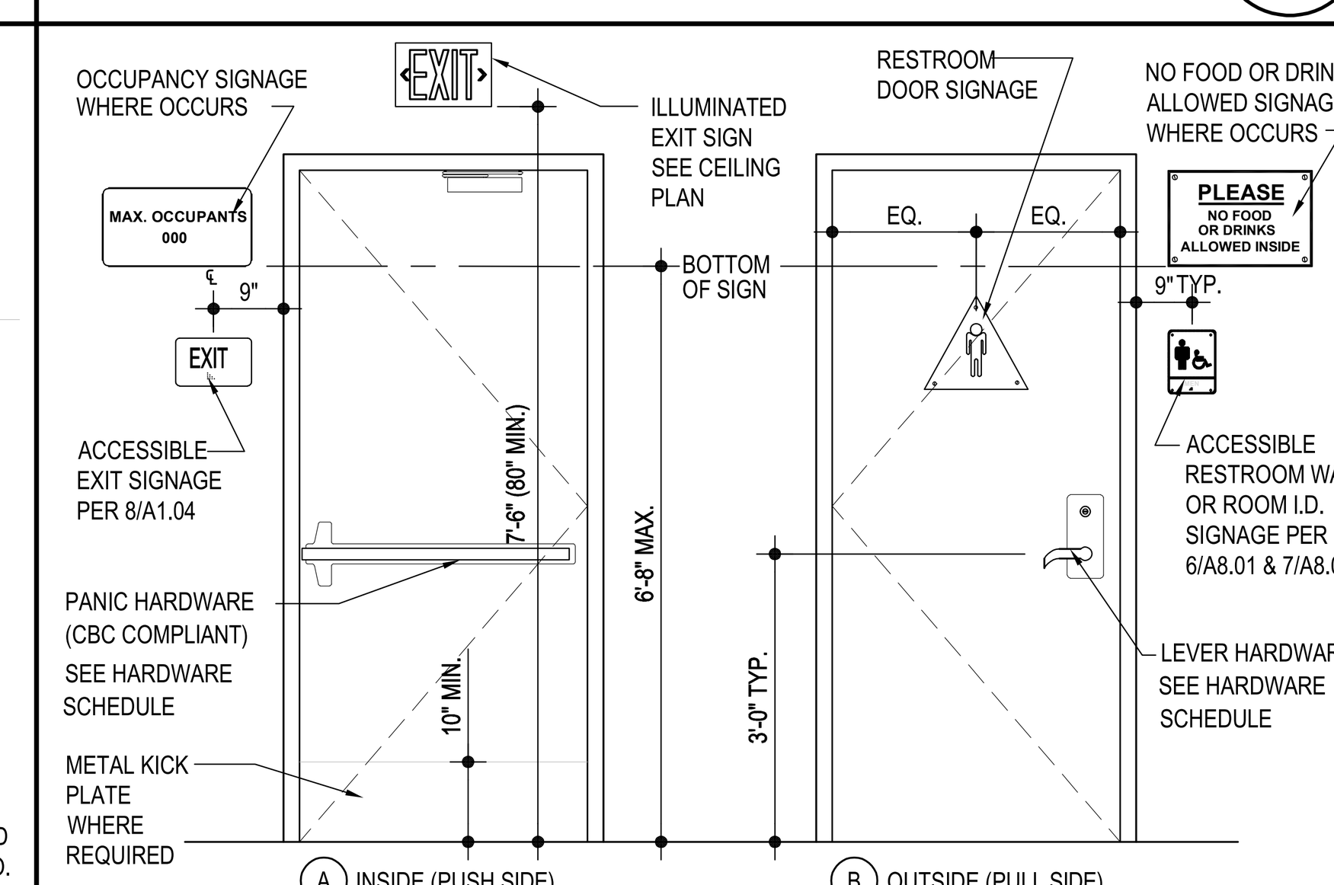
- A. UNISEX
- B. BOYS OR MEN IF STAFF TOILET
- C. GIRLS OR WOMEN IF STAFF TOILET

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm)
2. CHARACTER SIZE 5/8"-2" HIGH, UPPER CASE
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND CONSIST OF A WHITE FIGURE ON BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.
4. PROPORTIONS: SEE NOTE 4 & 5 PER 1/A8.01
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED
6. SIGN MOUNTING: SEE 2B/A8.01 AND SHALL COMPLY WITH 11B-703.4.2
7. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC, PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A8.01

TOILET ROOM WALL SIGN (ACCESSIBLE) — TWS — 6 A8.01
SCALE : 3" = 1'-0"

DOOR & WALL SIGNS MOUNTING (2)

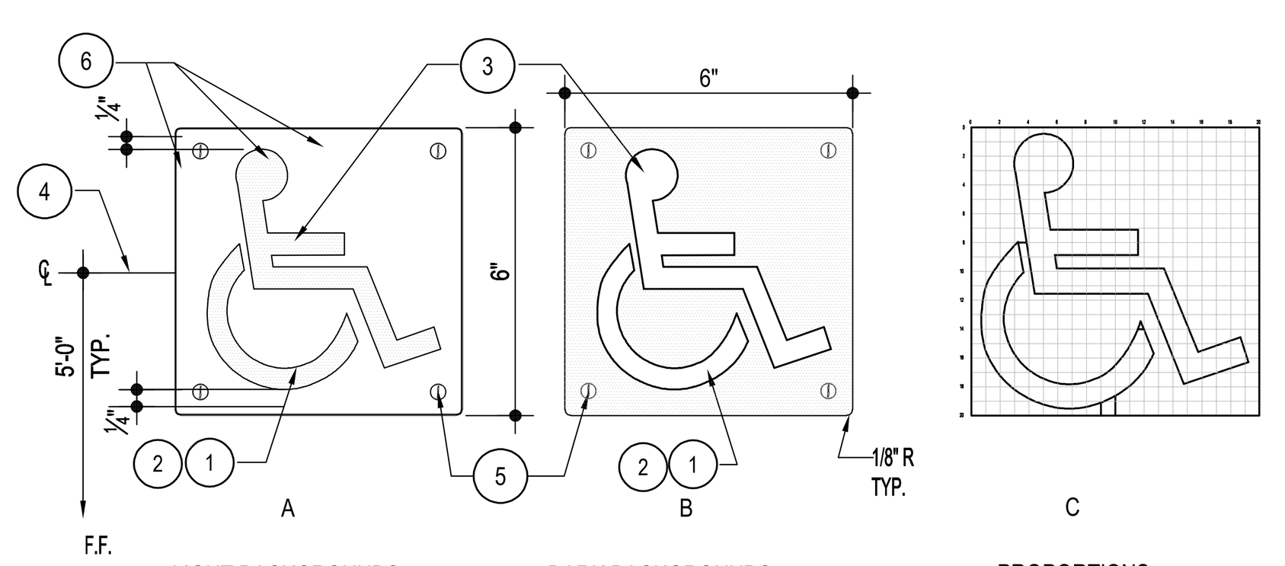


NOTE:

1. FOR MOD. SOME DOORS MAY ALREADY HAVE PARTIAL SIGNAGE PROVIDE ADDITIONAL SIGNAGE TO MEET REQUIREMENTS OF THIS DETAIL
2. PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF ANY DOOR.
3. VISUAL SIGNAGE SHALL COMPLY WITH 11B-703.5 AND TABLE 11B.703.5.5
4. IF ANY SIGN TO BE SUSPENDED FROM ITS CEILING SPACE, THE CLEARANCE UNDER IT MUST BE 80". SEE DOOR SCHEDULE FOR SIGNAGE.

DOOR & WALL SIGNS MOUNTING — 2 A8.01
SCALE : N.T.S.

INTERNATION SYMBOL OF ACCESSIBILITY (9)



NOTES:

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE PAINTED
2. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1
3. PROPORTIONS: SEE C
4. SIGN MOUNTING: SEE 2A/A8.01
5. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC, PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.
6. SIGN TO HAVE WHITE FIGURE AND BORDER WITH BLUE BACKGROUND OR OTHERWISE NOTED

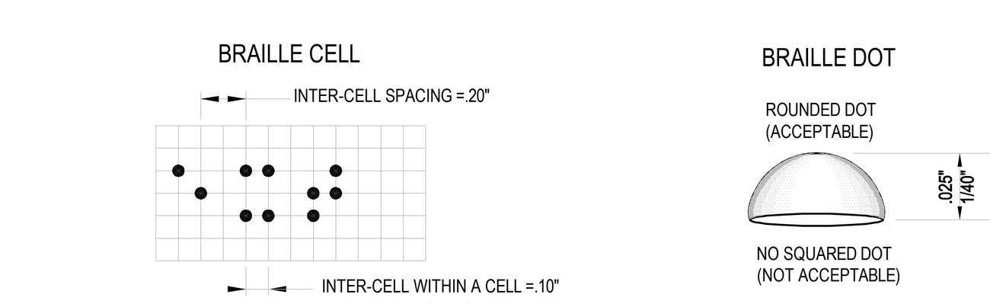
NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A8.01

INTERNATION SYMBOL OF ACCESSIBILITY — ISA — 9 A8.01
SCALE : 3" = 1'-0"

SIGNAGE TEMPLATES (1)

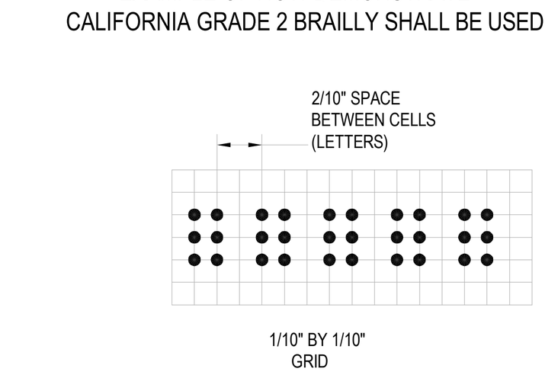
NOTES:

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5).
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9mm) AND MAXIMUM OF 2" (51 mm) HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1
4. PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.5.4
5. CHARACTER HEIGHT: MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I". 11B-703.5.5
6. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHERE BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS, MEASURED M THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE BACKGROUND. 11B-703.3



RECOMMEND ROUND OR DOME CARIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY USERS.

EXAMPLE OF HOW DEMONSTRATE CALIFORNIA GRADE 2 BRAILLY SHALL BE USED



BRAILLE SPACING TEMPLATE PER TITLE 24

CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDE AND FLAT TOPPED.

SIGNAGE TEMPLATES — 1 A8.01
SCALE : N.T.S.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN 64337-111 APPL 03-123187

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT — C-1421 — Ren. 08/31/2025 — STATE OF CALIFORNIA

CONSULTANT

Drawn by
Checked by
Revisions

No.	Date	Description

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL
NEW STORAGE BUILDING W/ BLEACHER SEATING

902 NORTH 3RD STREET
BURBANK, CA 91502

SIGNAGE DETAILS

Job No. 2986.0100

Date 04-14-2023

A8.01

REBAR EPOXY ANCHORS INTO 3000 PSI CONCRETE			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
#3	4	3,300	-
#4	6	6,000	-
#5	8	9,300	-
#6	10	13,200	-
#7	12	18,000	-
#8	14 3/4	27,700	-
#9	22 1/2	30,000	-

THREADED ROD EPOXY ANCHORS INTO CMU MASONRY (2000 PSI)			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
1/4	2	400	-
3/8	3 3/8	1760	-
1/2	4 1/2	2110	-
5/8	5 5/8	2740	-
3/4	6 3/4	3160	-

REBAR EPOXY ANCHORS INTO CMU MASONRY (2000 PSI)			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
#3	3 3/8"		-
#4	4 1/2"		-
#5	5 5/8"		-
#6	6 1/2"		-
#7	7 7/8"		-

SCREW ANCHORS INTO 3000 PSI CONCRETE			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
1/4	2	400	-
3/8	2 1/2	1000	-
1/2	4	1900	-
5/8	4 1/2	3000	-
3/4	5	4500	-

SCREW ANCHORS INTO 2,000 PSI MASONRY			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
1/4	1 5/8	850	-
3/8	3 1/4	2000	-
1/2	4 1/4	2450	-
5/8	5	2800	-
3/4	6 1/4	3250	-

DETAIL OR SECTION
SHEET WHERE DRAWN

TYPICAL DETAIL ON TYPICAL DETAIL SHEET

FOR BALANCE OF SECTION OR DETAIL IN THE POINTER DIRECTION SEE NOTED SECTION

POINTER INDICATES SECTION OR DETAIL TO REFER TO FOR ITEMS NOT NOTED

REFERENCE NOTE, REFER TO PLAN NOTE INDICATED

TOP OF FOOTING

BOTTOM OF FOOTING OR GRADE BEAM

ELEVATION (AT LEVEL PLANE)

ELEVATION (AT SLOPING PLANE)

INDICATES STEPPED FOOTING

MASONRY IN PLAN OR SECTION

SLOPE DECK OR SLAB

PRECAST CONCRETE IN SECTION. NOTED "PC"

NEW CONCRETE IN SECTION

WOOD BLOCKING IN SECTION

CONTINUOUS WOOD MEMBER IN SECTION

AB	ANCHOR BOLT
BM	BEAM
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
BOD	BOTTOM OF DECK
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
DWL	DOWEL
EF	EACH FACE
EL	ELEVATION
EOD	EDGE OF DECK
EW	EACH WAY
(E)	EXISTING
FOS	FACE OF STUD
FOW	FACE OF WALL
GR	GRADE
HS	HIGH STRENGTH
(N)	NEW
PEN	PENETRATION
PL	PLATE
PT	PRESSURE TREATED
OPP HD	OPPOSITE HAND
REF	REFERENCE
SDSTS	SELF-DRILLING SELF-TAPPING SCREWS
SMS	SHEET METAL SCREWS
SOG	SLAB ON GRADE
SS	SELECT STRUCTURAL
STSTS	SELF-TAPPING SELF-THREADING SCREWS
THK	THICKNESS
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOP	TOP OF PLYWOOD
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

STANDARD SYMBOLS AND NOTATION

POST-INSTALLED ANCHORS

1. POST INSTALLED ANCHORS SUCH AS EXPANSION BOLTS AND EPOXY ANCHORS SHALL BE USED WHERE SPECIFIED IN THESE DOCUMENTS AND THEIR USE IS SUBJECT TO ADHERENCE TO THE INSTALLATION PROCEDURES AND LIMITS ON EDGE DISTANCE AND SPACING INDICATED IN THE ICC PRODUCT APPROVAL REPORT. POST-INSTALLED ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHORS ONLY WHERE APPROVED IN WRITING BY THE ENGINEER.
2. WHERE ANCHOR "PENETRATION" OR "EMBEDMENT" INTO CONCRETE IS SPECIFIED, IT IS INTENDED TO SPECIFY THE MINIMUM EFFECTIVE PENETRATION.
3. WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER, POST INSTALLED ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS. THE DIAMETER AND EMBEDMENT OF THE EXPANSION BOLT SHALL BE SPECIFIED AS SAME AS THE CAST-IN-PLACE ANCHOR.
4. TESTING FOR POST-INSTALLED ANCHORS IN CONCRETE SHALL BE IN ACCORDANCE WITH CBC 1910A.5. TEST OF POST-INSTALLED ANCHORS IN MASONRY SHALL COMPLY WITH CBC 1705A.4. TYPICAL TEST VALUES ARE LISTED IN THE FOLLOWING NOTES AND TABLES.
5. WHERE POST-INSTALLED ANCHORS ARE SPECIFIED, THEY SHALL BE OF THE TYPE AND MANUFACTURER INDICATED BELOW AND INSTALLED IN ACCORDANCE WITH ITS EVALUATION REPORT. THE EDGE DISTANCE AND SPACING SHALL CONFORM TO THE LIMITS INDICATED IN THE PRODUCT'S REPORT. THE ALTERNATE PRODUCTS LISTED MAY BE USED ONLY WHEN APPROVED IN WRITING BY THE ENGINEER. THE TABULATED PENETRATIONS LISTED ARE MINIMUM UNO IN THESE DOCUMENTS.
6. **EXPANSION ANCHORS IN CONCRETE** SHALL BE:
   a. SIMPSON STRONG-BOLT2 (ESR-3037)
   b. ALTERNATE: HILTI KB-TZ2 (ESR-4266)
   c. ALTERNATE: POWERS POWER-STUD + SD2 (ESR-2502)
7. **EXPANSION ANCHORS IN CMU MASONRY** SHALL BE:
   a. SIMPSON STRONG-BOLT2 (IAPMO ER-240)
   b. ALTERNATE: HILTI KB-TZ2 (ESR-4561)
   c. ALTERNATE: POWERS POWER-STUD + SD1 (ESR-2966)
8. **EPOXY ANCHORS INTO CONCRETE** SHALL BE:
   a. SIMPSON SET-3G (ESR-4057).
   b. ALTERNATE: HILTI RE-500-V3 SAFESET (ESR-3814)
   c. ALTERNATE: PURE 110+ (ESR-3298)
9. **EPOXY ANCHORS INTO CMU** SHALL BE:
   a. SIMPSON SET-XP (ER-265)
   b. ALTERNATE: HILTI HIT-HY 270 (ESR-4143)
   c. ALTERNATE: POWERS AC100+GOLD (ESR-3200)
10. **SCREW ANCHORS INTO CONCRETE** SHALL BE:
   a. SIMPSON TITEN-HD (ESR-2713)
   b. ALTERNATE: HILTI KWIK HUS-EZ (ESR-3027)
   c. ALTERNATE: POWERS WEDGE-BOLT+ (ESR-3889)
11. **SCREW ANCHORS INTO MASONRY**
   a. HILTI KWIK HUS-EZ (ESR-3056)
12. **POWER DRIVEN SHOT PINS** (LOW VELOCITY)
   a. SHOT PINS MAY BE USED FOR SHEAR LOADS AND THEY MAY BE USED IN TENSION TO SUPPORT LOADS LESS THAN 90 POUNDS FOR MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUITS, ETC.
   b. SHOT PINS SHALL BE 0.157 INCH DIAMETER SIMPSON PDPAT (ESR-2138). ALTERNATES: HILTI X-U (ESR 2269) OR POWERS CSI PER ICC (ESR-2024)
   c. SHOT PINS SHALL HAVE A MINIMUM PENETRATION OF 1" INTO CONCRETE.
   d. THE ALLOWABLE LOADS SHALL BE 90 POUNDS OR 80% OF ICC REPORT APPROVED VALUES, WHICHEVER IS LESS.
   e. QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREM
   f. TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD (2X 100 POUNDS) SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY
13. WHEN POST-INSTALLED ANCHORS ARE USED FOR NON-STRUCTURAL COMPONENTS, 50% OR ALTERNATE BOLTS IN A GROUP, SHALL BE TESTED. THE TESTING OF THE POST- INSTALLED ANCHORS SHALL BE DONE IN THESE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY.
14. ACCEPTANCE CRITERIA FOR POST-INSTALLED ANCHORS SHALL BE BASED ON AN APPROVED EVALUATION REPORT. FIELD TESTS SHALL SATISFY THE MINIMUM REQUIREMENTS OF HYDRAULIC RAM OR TORQUE WRENCH METHODS PER CBC 1910A.5.5.

EXPANSION ANCHORS INTO 3000 PSI CONCRETE			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
1/4	2 1/2	-	-
3/8	3	-	25
1/2	4	-	40
5/8	4 1/2	-	60
3/4	5	-	110

EXPANSION ANCHORS INTO CMU MASONRY (2000 PSI)			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
1/4	2	-	4
3/8	2 1/2	-	15
1/2	3 1/2	-	25
5/8	4	-	65
3/4	4 3/8	-	120

THREADED ROD EPOXY ANCHORS INTO 3000 PSI CONCRETE			
ANCHOR DIA (in)	PENETRATION (IN)	TEST LOAD	
		PULL OUT (LB)	TORQUE (FT-LB)
1/4	2	400	-
3/8	3	1000	-
1/2	4	1900	-
5/8	4 1/2	3000	-
3/4	5	4500	-
7/8	6	5100	-
1	7	6100	-
1 1/8	8	6800	-
1 1/4	9	8000	-

REINFORCEMENT

1. ALL REINFORCING BARS SHALL CONFORM TO ACI 318-19 20.2 AND ASTM A615 GRADE 60.
2. WELDED WIRE FABRIC SHALL CONFORM TO ACI 318 20.2.1.7 AND ASTM A1064.
3. ALL REINFORCING SHALL BE ACCURATELY PLACED AND FIRMLY SUPPORTED AS REQUIRED BY THE ACI STANDARDS. REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE AND SHALL BE PLACED AS NEAR TO THE CONCRETE SURFACE AS THESE MINIMUMS WILL PERMIT UNLESS NOTED OR DETAILED OTHERWISE.
   - CONCRETE POURING AGAINST EARTH .... 3"
   - FORMED CONCRETE IN CONTACT WITH EARTH OR WEATHER ..... 2"
   - SLABS, WALLS, JOISTS .... 3/4"
   - BEAMS .... 1-1/2"
   - COLUMNS (TO MAIN STEEL) .... 2"
   - MASONRY (INTERIOR SHELLS) .... 1-BAR DIAMETER, 1/2" MIN
   - MASONRY NOT EXPOSED TO WEATHER OR EARTH .... 1 1/2"
   - MASONRY EXPOSED TO WEATHER OR EARTH:
     - BARS LARGER THAN NO. 5 .... 2"
     - NO. 5 AND SMALLER BARS .... 1 1/2"
4. MINIMUM CLEAR SPACING OF BARS SHALL BE IN ACCORDANCE WITH ACI 318, 25.2.1.
5. SPLICE BARS AS SHOWN ON STRUCTURAL DRAWINGS ONLY. REFER TO TYPICAL DETAILS FOR MINIMUM LAP LENGTH.
6. BARS INTERRUPTED BY STRUCTURAL STEEL SHALL EXTEND TO WITHIN 1" OF THE STRUCTURAL STEEL FLANGE OR WEB AND HAVE A 90 DEGREE HOOK UNLESS NOTED OTHERWISE.
7. REINFORCING BARS SHALL NOT BE WELDED EXCEPT WHERE SHOWN ON THE DRAWINGS. WHERE REINFORCING BARS ARE INDICATED TO BE WELDED THEY SHALL BE OF WELDABLE MATERIAL ASTM A706 AND WELDED PER AWS D1.4. WELDING RODS SHALL BE LOW HYDROGEN E-90 ELECTRODES.

MASONRY

1. CONCRETE MASONRY (CMU) SHALL BE MEDIUM-WEIGHT UNITS CONFORMING TO ASTM C-90. USE OPEN END BLOCK AT VERTICAL REINFORCING BARS AND BOND BEAM BLOCK AT HORIZONTAL BARS.
2. BRICK MASONRY SHALL CONFORM TO ASTM C62 GRADE SW.
3. COMPRESSIVE STRENGTH OF MASONRY (f'm) AT 28 DAYS SHALL BE 2,000 PSI (2,500 PSI WHERE SHOWN ON PLAN) IN ACCORDANCE WITH CBC SECTION 2105A.
4. UNITS SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
5. ALL CELLS AND SPACES SHALL BE GROUTED SOLID. COMPLY WITH THE REQUIREMENTS OF CBC 2104A.1.3.
6. ALL BARS SHALL HAVE A CLEAR DISTANCE TO THE MASONRY SURFACE OF ONE BAR DIAMETER OR ONE-HALF INCH, WHICHEVER IS GREATER. EXCEPT WHERE NOTED OR DETAILED OTHERWISE PLACE BARS AS CLOSE TO THE MASONRY SURFACE AS THESE CLEARANCES WILL PERMIT. BOLTS AND EMBEDS SHALL HAVE A MINIMUM OF 1 INCH GROUT COVER ALL AROUND.
7. VERTICAL REINFORCING IN WALLS SHALL BE ON THE WALL CENTER LINE UNLESS NOTED OTHERWISE.
8. COARSE GROUT SHALL BE PER CBC 2103A.3 AND SHALL HAVE A 2000 PSI (2,500 PSI WHERE SHOWN ON PLAN) MINIMUM 28-DAY STRENGTH.
9. MORTAR SHALL BE TYPE S PER CBC 2103A.2.1 AND SHALL HAVE A 1800 PSI MINIMUM 28-DAY STRENGTH (2,500 PSI WHERE SHOWN ON PLAN) .
10. FOR REINFORCING REFER TO GENERAL NOTES UNDER "REINFORCING."
11. CMU CONSTRUCTION WITH STRENGHT GREATER THAN 2,000 PSI SHALL HAVE PRE-CONSTRUCTION PRISM TESTING.
12. COMPLY WITH ALL TESTS REQUIREMENTS ON CBC 2022 CHAPTER 17A, CHAPTER 21A AND DSA FORM 103-22 SECTION M.1.C FOR CMU PRISM TESTING REQUIREMENTS.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS AND CHAPTER 22A OF THE CBC.
2. FABRICATOR SHALL BE LICENSED BY THE LOCAL BUILDING DEPARTMENT FOR THE WORK INDICATED.
3. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 EXCEPT AS FOLLOWS:
   - PIPE COLUMNS .... ASTM A53 GRADE B (Fy=35ksi)
   - HOLLOW STRUCTURAL SECTIONS (HSS):
     - SQUARE AND RECTANGULAR .... ASTM A500 (Fy=50 ksi)
     - ROUND .... ASTM A500 (Fy=46 ksi)
   - PLATES AND BARS .... ASTM A572 GRADE 50 (Fy=50 ksi)
4. FABRICATOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. FABRICATE BEAM ELEMENTS WITH NATURAL CAMBER UP.
6. ALL BOLTS SHALL BE ASTM F3125 GROUP A (A325-N) HIGH STRENGTH (H.S.) BOLTS INSTALLED AND TESTED IN ACCORDANCE WITH CBC 2213A.1. ANCHOR RODS AND BOLTS INTO CONCRETE OR MASONRY SHALL CONFORM TO ASTM F-1554 GRADE 36 (Fy=36 ksi). MACHINE BOLTS (M.B.) WHERE SPECIFIED, SHALL CONFORM TO ASTM A307 GRADE 36 (Fy=36 ksi). BOLTS HOLES SHALL BE NO MORE THAN 1/16 INCH GREATER THAN THE BOLT DIAMETER, EXCEPT BASE PLATE ANCHOR BOLT HOLES MAY BE DRILLED TO A DIAMETER NOT TO EXCEED THOSE LISTED IN AISC SPECIFICATIONS TABLE J3.3 FOR 'OVERSIZED' HOLES. WHERE HOLE SIZE IS EXCEEDED PROVIDE A 1/4" THICK WELD WASHER WITH 1/4" FILLET WELD ALL AROUND.
7. WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 SPECIFICATIONS AND CBC CHAPTER 22A. WELDING ELECTRODES SHALL BE E-70XX. WELDERS SHALL BE CERTIFIED.
8. WELD SIZES INDICATED ARE MINIMUM REQUIRED FOR STRESS, CHECK WITH AISC SPECIFICATIONS TABLE J2.4 FOR OTHER REQUIREMENTS.
9. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123, F2329, A384 AND A780.
10. ALL BASE PLATES BEARING ON CONCRETE OR MASONRY SHALL BEAR ON MINIMUM 1.5 INCHES OF NON-METALLIC NON-SHRINK GROUT CONFORMING TO ASTM C1107 WITH A MINIMUM COMPRESSIVE STRENTH OF 6,000 PSI. THE GROUT SHALL BE POURED TO AT LEAST 1/16 INCH ABOVE THE BOTTOM OF BASE PLATE SURFACE.
11. ALL STRUCTURAL STEEL BELOW GRADE OR OTHERWISE ADJACENT TO EARTH OR GRAVEL SHALL HAVE A MINIMUM OF 4" CONCRETE COVER REINFORCED WITH MINIMUM #3 BARS AT 12" OC

STEEL DECK

1. STEEL DECKING SHALL BE BY EPIC METALS CORPORATION PER ICC REPORT IAPMO UES ER-226.
2. DECKING AND CLOSURE PLATES SHALL BE GALVANIZED STEEL SHEET OF ASTM A653 SS GRADE 50. GALVANIZATION SHALL COMPLY WITH ASTM A924.
3. REFER TO PLANS FOR DECK TYPE, GAGE AND WELDING.
4. DECKING SHALL BE CONTINUOUS FOR 2 SPANS MINIMUM WHEREVER POSSIBLE UNLESS NOTED OTHERWISE ON PLANS.
5. DECK CONTRACTOR SHALL PROVIDE AND WELD INTO POSITION CLOSURE PLATES AT DECK EDGES AS WELL AS NECESSARY FLASHING AROUND COLUMNS AND AT OPENINGS RESULTING FROM CHANGE OF DECK SPAN DIRECTION. REINFORCE ALL CANTILEVER DECK EDGES AS REQUIRED TO SUPPORT CONSTRUCTION LOADS.
6. WELD DECK TO SUPPORTING STEEL WITH 3/4" DIAMETER (1/2" EFFECTIVE DIA.) PUDDLE WELDS SPACED AS INDICATED ON PLANS.
7. WHERE DECK DOES NOT BEAR SQUARELY ON SUPPORTING MEMBER, PROVIDE SHIM PLATE OR WELD WASHER AS REQUIRED TO PLACE THE WELD OR FASTENER.
8. WHEN DECK SHEETS RUN PARALLEL TO A BUILDING PERIMETER THE FIRST SHEET ALONG THAT PERIMETER SHALL BE A FULL-WIDTH SHEET.

STRUCTURAL OBSERVATIONS

1. THE OWNER SHALL EMPLOY COSTA AND ASSOCIATES OR OTHER CALIFORNIA REGISTERED STRUCTURAL ENGINEER TO PERFORM STRUCTURAL OBSERVATION IN ACCORDANCE WITH CBC SECTION 1704A.6 AND ALL PERTINENT AMMENDMENTS.
2. PERIODIC STRUCTURAL OBSERVATION WILL BE PROVIDED BY THE STRUCTURAL ENGINEER FOR THE FOLLOWING WORK INDICATED BELOW. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO REQUIRED OBSERVATIONS. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERING MATERIAL TO FACILITATE OBSERVATION.
   - -CONCRETE REINFORCING.
   - - REINFORCED MASONRY.
3. STRUCTURAL OBSERVATIONS PERFORMED BY STRUCTURAL ENGINEER CONSIST ON THE VISUAL REVIEW OF THE STRUCTURAL SYSTEM'S MAJOR ELEMENTS AND IT'S CONNECTIONS FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AT SUBSTANTIAL CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTORS REQUIRED OF THE BUILDING INSPECTOR OR THE SPECIAL INSPECTOR AS REQUIRED BY CBC SECTION 1705A.

GENERAL NOTES

INTENT OF DRAWINGS

1. THE STRUCTURAL DRAWINGS SHOW THE BASIC STRUCTURAL FRAME ONLY. REFER TO ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS FOR ITEMS NOT SHOWN SUCH AS NON-STRUCTURAL WALLS, CURBS, CEILINGS, FINISHES, SLAB DEPRESSIONS, WALL CHASES ETC., AS WELL AS DIMENSIONS AND ELEVATIONS NOT NOTED. WHERE SUCH ITEMS APPEAR ON THE STRUCTURAL DRAWINGS THE INTENT IS ONLY TO ALERT THE CONTRACTOR TO COORDINATE WITH OTHER DOCUMENTS.
2. THESE DRAWINGS ILLUSTRATE THE DESIGN INTENT AS REQUIRED FOR THE BUILDING PERMIT AND ARE NOT IN THEMSELVES CONSTRUCTION DRAWINGS. SECTIONS AND DETAILS ARE PROVIDED FOR KEY AREAS OF THE WORK. WHERE NO SPECIFIC DETAIL IS INDICATED THE CONTRACTOR SHALL PROVIDE MATERIALS, DETAILS, CONNECTIONS, ETC. IN A MANNER CONSISTENT WITH THE DETAILED PORTIONS OF THE WORK.
3. REFER TO ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS FOR LOCATION AND DIMENSIONS OF ALL OPENINGS AND PENETRATION FOR MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES THROUGH WALLS, FLOORS, AND ROOFS. FRAME OR REINFORCE OPENINGS PER THE TYPICAL DETAILS.
4. RESOLVE ANY CONFLICTS ON THE CONTRACT DOCUMENTS WITH THE ARCHITECT BEFORE PROCEEDING WITH WORK.
5. TYPICAL DETAILS AND GENERAL NOTES ON SHEETS S1.1 TO S1.3 APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE DETAILED OR NOTED OTHERWISE. EACH TYPICAL DETAIL HAS A UNIQUE NAME (**F1, R1, SG1**, ETC) AND ARE REFERENCED BY THEIR NAME ONLY WITHOUT REFERENCING DRAWING SHEET NUMBER.
6. VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB.

CODE

1. ALL WORK SHALL COMPLY WITH THE 2022 CALIFORNIA BUILDING CODE (CBC) WHICH CONSISTS OF THE 2021 INTERNATIONAL BUILDING CODE AND THE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24 PART 2 AMENDMENTS.

VERTICAL DEAD LOADS

1. THE STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING DEAD LOADS, IN ADDITION TO THE SELFWEIGHT OF THE STRUCTURAL MEMBERS AND STRUCTURAL DECKS.

BLEACHERS DEAD LOAD..................10 PSF (MAX)

VERTICAL LIVE LOADS

FLOOR (BLEACHERS).........................100 PSF (NON-REDUCIBLE)
STAIRS AND EXIT CORRIDORS...........100 PSF (NON-REDUCIBLE)
CANOPY ROOF .... 20 PSF (REDUCIBLE)

HORIZONTAL LOADS

1. WIND SPEED (ASCE 7 CHAPTER 26): Vult=95 MPH EXPOSURE : C
   RISK CATEGORY (CBC TABLE 1604A.5): II
   INTERNAL PRESSURE COEFFICIENT (ASCE 7 26.13) GCpi=+0.18/-0.18
   COMPONENTS & CLADING (ASCE 7 CHAPTER 30.4) BASED ON AN EFFECTIVE AREA=10 PSF:
   ROOF ZONE 1=-36.3 / +16 PSF ZONE 2= -47.7 / +16 PSF ZONE 3=-65.1 / +16 PSF
   WALL ZONE 4=-24.6 PSF / +22.7 PSF ZONE 5=-30.4 / +22.7 PSF
2. SEISMIC-SITE:
   - SITE CLASS: D
   - SPECTRAL ACCELERATIONS $S_S = 2.012$, $S_1 = 0.699$
   - SITE CLASS COEFFICIENT $F_a = 1.0$, $F_v = 1.7$
   - DESIGN SPECTRAL ACCELERATIONS $S_{DS} = 1.342$, $S_{D1} = 1.19$
3. SEISMIC-BUILDING:
   - SEISMIC DESIGN CATEGORY: D
   - RESPONSE MODIFICATION FACTOR Cs = 0.536 g
   - BASE SHEAR V = 123.3 Kips
   - IMPORTANCE FACTOR I = 1.0

   ONE-STORY BLDG, PER ASCE 7 TABLE 12.2.-1 ITEM "A.7" SPECIAL REINFORCED CMU SHEAR WALL:
   RESPONSE MODIFICATION FACTOR R = 5.0 Ω= 2.5 Cd = 3.5
   CANOPY PER ASCE 7 TABLE 12.2.-1 ITEM "G.3" CANTILEVER SPECIAL REINFORCED CONCRETE COLUMN SYSTEM:
   RESPONSE MODIFICATION FACTOR R = 2.5 Ω= 1.25 Cd = 2.5

NOTE: LOWER "R" GOVERNS THE SEISMIC DESIGN

SOIL

1. REFER TO GEOTECHNICAL REPORT BY CONVERSE CONSULTANTS, PROJECT NO. 97-31-279-01, DATED: JUNE 22, 1998, AND SUPPLEMENTAL LETTER REPORT, DATED: DECEMBER 16,2022.
2. NATIVE SOIL TYPE IS SAND, SILTY SAND AND SANDY SILTS.
3. DESIGN ALLOWABLE SOIL PRESSURE IS PER THE FOLLOWING TABLE:

ALLOW SOIL BEARING PRESSURES (PSF)						
FOOTING	ALLOW PRESSURE	MIN WIDTH	MIN DEPTH	INCREASE FOR WIDTH	INCREASE FOR DEPTH	MAXIMUM
ISOLATED PAD	3,000	24 IN	18 IN	500	-	5,000
CONT WALL FOOTING	3,000	18 IN	18 IN	500	-	5,000

- ONE THIRD INCREASE OF ALLOWABLE SOIL PRESSURE IS ALLOWED FOR LOAD COMBINATIONS INCLUDING WIND OR SEISMIC LOADS.

4. FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR COMPACTED FILL AND SHALL EXTEND AT LEAST 1.5 FEET BELOW FINISH GRADE OR FLOOR LINE, WHICHEVER IS LOWER.
5. REFER TO CIVIL DRAWINGS AND SOIL REPORT FOR EXCAVATIONS, GRADING AND COMPACTED FILL REQUIREMENTS.
6. FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER JUST PRIOR TO POURING CONCRETE, ENSURING THAT THEY ARE INTO SATISFACTORY SOIL, ARE OF PROPER DIMENSIONS AND ARE CLEAN AND FREE OF LOOSE SOIL.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO ACI STANDARD 318-19 FOR REINFORCED CONCRETE AND CBC CHAPTER 19A.
2. DESIGN MIXES SHALL BE PER ACI 318, 26.4.2.
3. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. FOR ULTIMATE 28-DAY COMPRESSIVE STRENGTH (f'c) AND REQUIRED CEMENT TYPE, REFER TO CONCRETE EXPOSURE TABLE BELOW.
4. ALL CONCRETE SHALL BE MADE TO WITHSTAND DETERIORATION FROM EXPOSURE IN ACCORDANCE WITH 2022 CBC CHAPTER 1904A AND ACI 318, 19.3. MIX DESIGNS PREPARED SHALL STATE THE COMPLIANCE WITH THE CLASS AS REQUIRED BY THE TABLE BELOW.

CONCRETE EXPOSURE TABLE					
PART OR PORTION OF WORK	EXPOSURE CLASS	f'c PSI	CEMENT TYPE	MAX W/C RATIO	SLUMP
FOUNDATION CONCRETE	F0 - S0 - W0 - C0	3,000	I OR II	(1)	(1)
SLAB ON GRADE NOT PROTECTED BY MOISTURE BARRIER	F0 - S0 - W0 - C0	2,500	I OR II	(1)	(1)
SLAB ON GRADE PROTECTED BY MOISTURE BARRIER	F0 - S0 - W0 - C0	2,500	I OR II	(1)	(1)
CONC SLAB AT 2ND FLOOR DECK AND CONC PILASTERS	F0 - S0 - W0 - C0	5,000	I OR II	(1)	(1)

(1) TO BE SPECIFIED BY CONTRACTOR IN DESIGN MIX.

6. TOLERANCES FOR CONCRETE WORK AND PLACEMENT OF BARS SHALL BE IN ACCORDANCE WITH ACI 117.
7. KEY AND DOWEL CONSTRUCTION POUR JOINTS AS SHOWN ON THE STRUCTURAL DRAWINGS ONLY. EXTEND BARS OR DOWELS THRU JOINTS THE LENGHT REQUIRED FOR A LAP OR MECHANICAL SPLICE PER THE TYPICAL DETAILS. ADDITIONAL JOINTS MAY BE APPROVED IF PLANS AND DETAILS ARE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
8. SET SCREEDS TO COMPENSATE FOR FORM AND SUPPORT SETTLEMENT.
9. NO PIPES, DUCTS OR CONDUITS SHALL BE EMBEDDED IN STRUCTURAL MEMBERS EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS.
10. REFER TO SPECIFICATIONS SECTION 03 3000 FOR TOLERANCES, FLOOR FLATNESS AND LEVELNESS.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN. 64337-110 APPL. 03-122682

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JOB NO. 122017

Drawn by OCP
Checked by OC

Revisions

No.	Date	Description
△		

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL AQUATIC CENTER MODERNIZATION STORAGE BLDG

902 NORTH 3RD STREET
BURBANK, CA 91502

Sheet Title:

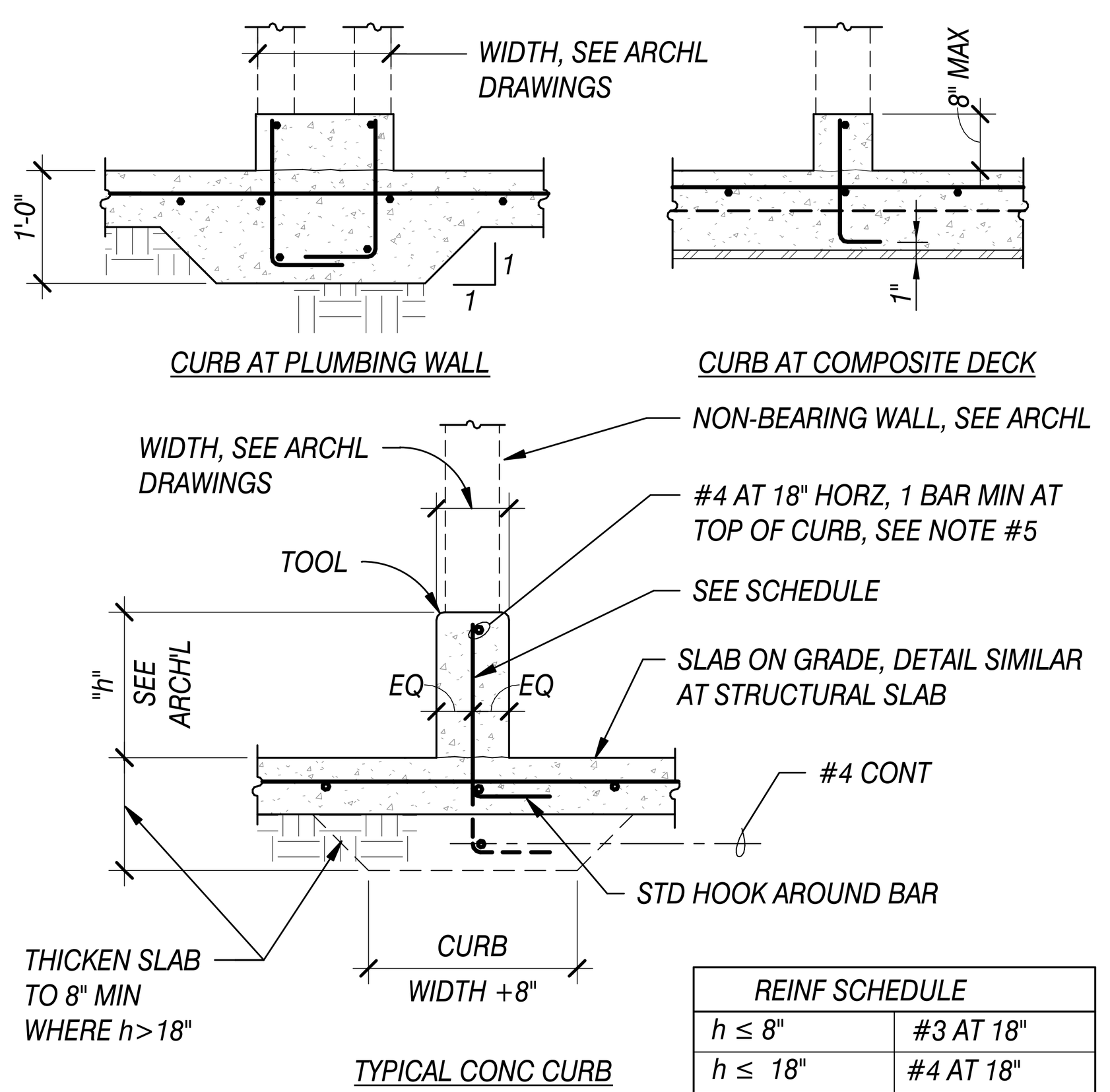
GENERAL NOTES

Job No.
2986.0000

Date.
06-28-2023

S1.1

A B C D E F



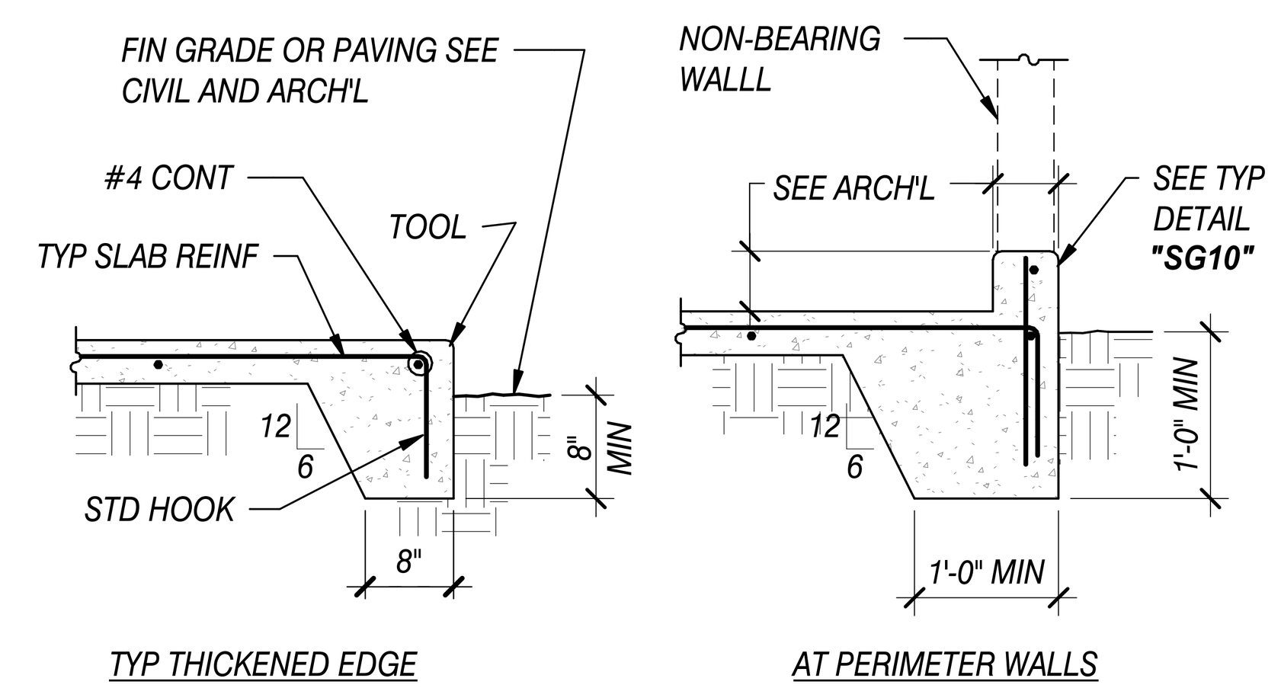
REINF SCHEDULE	
h ≤ 8"	#3 AT 18"
h ≤ 18"	#4 AT 18"

NOTES:

1. REFER TO ARCHITECTURAL DWGS FOR SIZE AND LOCATION OF CURBS.
2. DETAIL SIMILAR AT STRUCTURAL SLAB. EXTEND REINF INTO SLAB AS FAR AS POSSIBLE AND HOOK.
3. SCHEDULED BARS ARE FOR CURBS UP TO 8" WIDE. PROVIDE ONE ADDITONAL LINE OF DOWELS FOR EACH ADDITIONAL 8" OF WIDTH.
4. FOR CURBS UP TO 18" HIGH AND WHERE SLAB CONCRETE IS CURED, VERTICAL BARS MAY BE INSTALLED AS EPOXY BARS PER THE GENERAL NOTES..
5. COORDINATE LOCATION OF HORIZONTAL BARS TO AVOID INTERFERENCE WITH WALL ANCHORS.

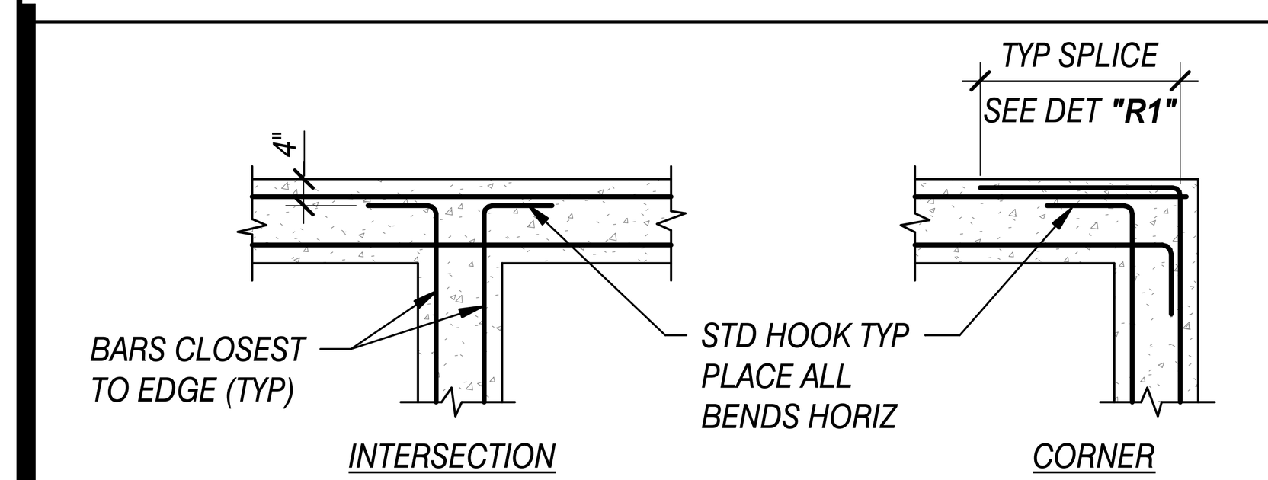
TYPICAL CURB DETAILS

SG10 -



TYPICAL SLAB EDGE

SG11 -

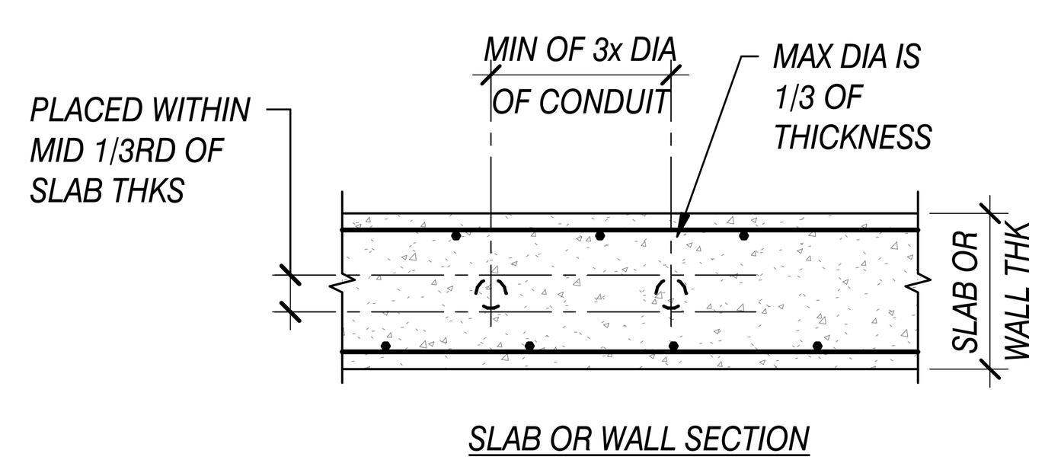


NOTES:

1. DETAIL SIMILAR FOR SINGLE CURTAIN REINFORCING
2. STEP GRADE BEAMS AND CONTINUOUS FOOTINGS AS REQ'D TO MATCH LOWER BOTTOM OF CONCRETE ELEVATION.

TYPICAL GRADE BEAM AND CONTINUOUS FOOTING CORNER AND INTERSECTION DETAIL

C7 -

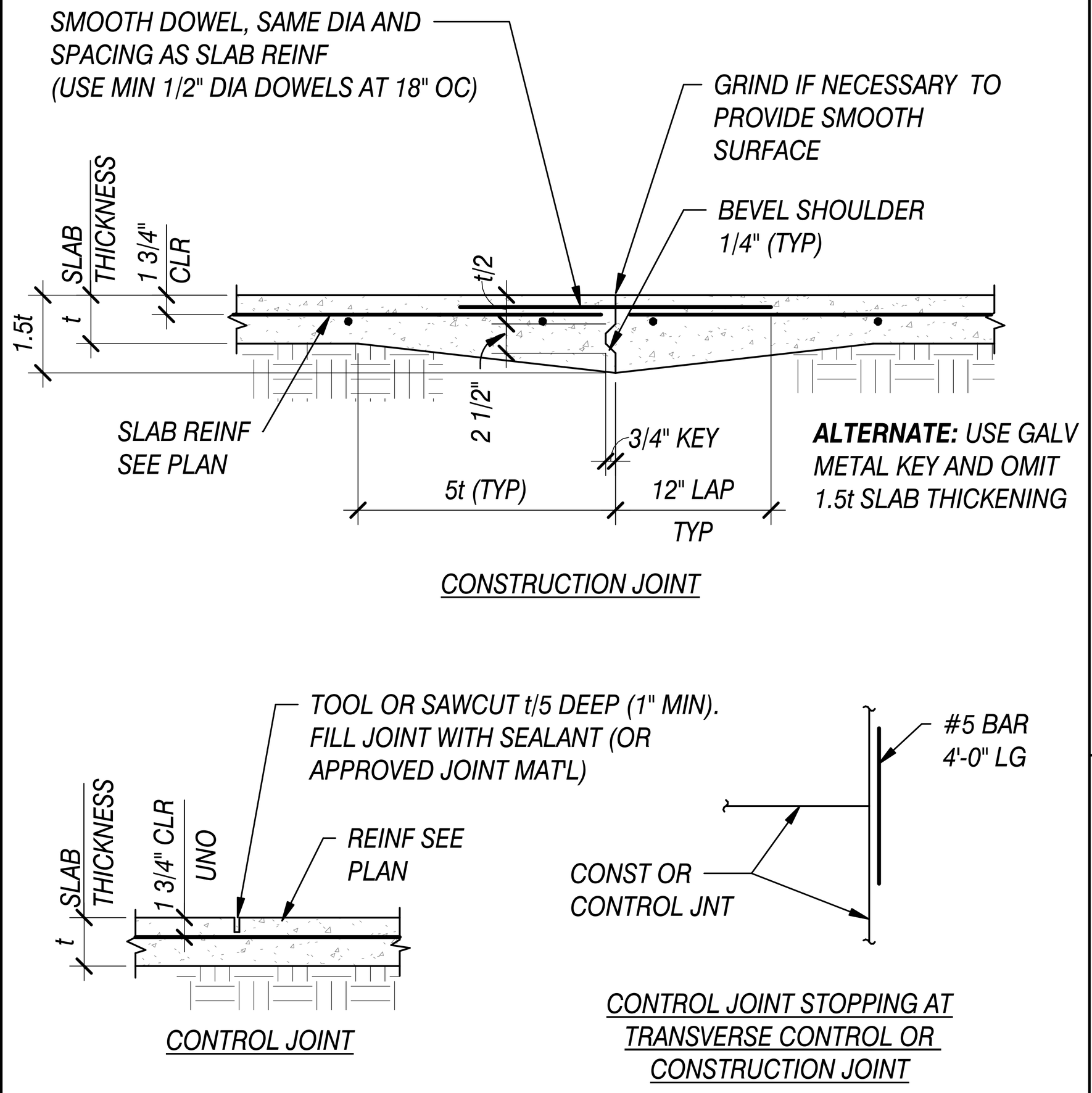


NOTES:

1. WIRE CONDUITS TO PERPENDICULAR BARS, STIRRUPS OR TIES.
2. PROVIDE MIN 2" COVER TO CONC SURFACE.
3. CONDUITS RUNNING PARALLEL TO BARS SHALL BE 1 1/2" CLEAR OF THE BAR.
4. CROSS-OVER OF CONDUITS PERMITTED IF THE SUM OF THE DIAMETERS DOES NOT EXCEED ONE-THIRD OF THE SLAB THICKNESS.
5. AT SLABS ON GRADE THICKEN SLAB AS REQ'D TO PROVIDE MIN 3" COVER ALL AROUND CONDUIT.
6. CONDUITS IN CONC COLUMNS SHALL NOT DISPLACE MORE THAN 4% OF THE COLUMN GROSS SECTION AREA. PLACE CONDUIT INSIDE CAGE AND WIRE TO COLUMN TIE REINFORCING.
7. CONDUITS AND PIPES EMBEDDED IN CONC ARE SUBJECT TO ALL REQUIREMENTS OF THE ACI 318-19 SECTION 20.8 AND 26.8.
8. NO ALUMINUM ELEMENTS SHALL BE EMBEDED IN CONCRETE.

PIPES AND CONDUITS IN CONCRETE

C10 -

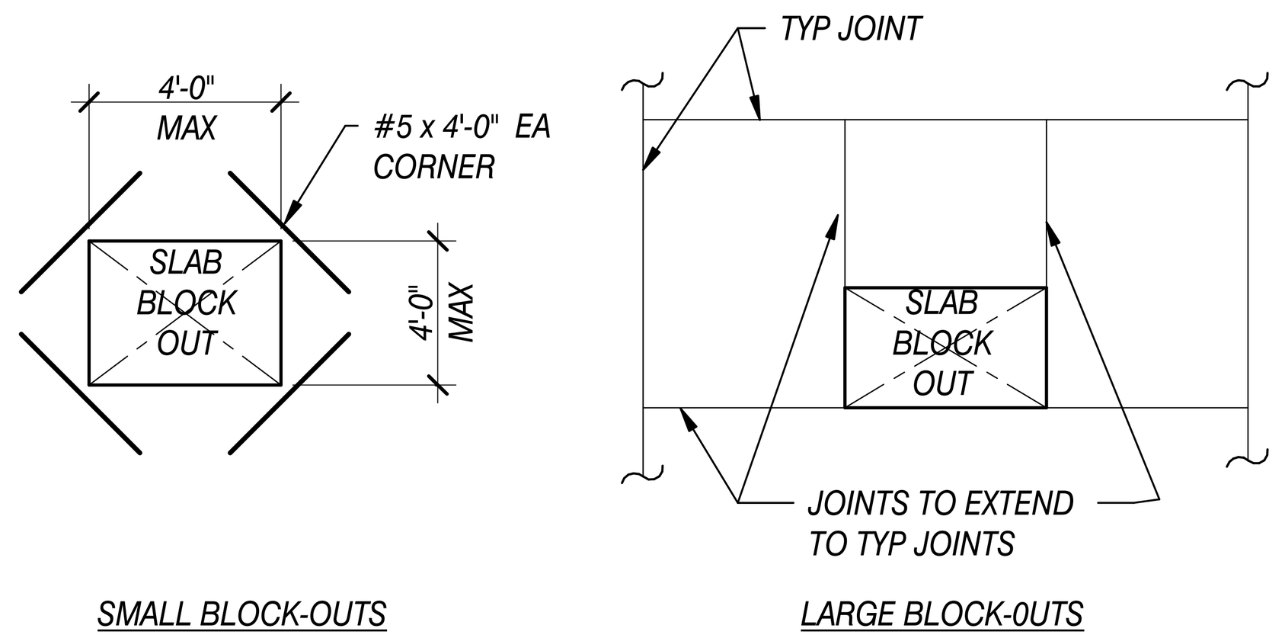


NOTES:

1. UNO ON PLAN PROVIDE CONTROL OR CONSTRUCTION JOINTS TO DIVIDE SLAB INTO APPROXIMATELY 20'x20' SECTIONS WITHOUT RE-ENTRANT CORNER. WHERE JOINTS ARE NOT SHOWN ON PLANS SUBMIT SHOP DWGS INDICATING ALL JOINTS FOR APPROVAL.
2. COORDINATE JOINTS WITH COLUMN CENTER LINES, REFER TO TYP DETAILS FOR JOINTING AT COLUMNS.
3. SAWCUTTING OF CONTROL JOINT SHALL BE COMPLETED WITHIN 24 HOURS OF THE CONCRETE POUR.
4. FOR SIZE AND SPACING OF JOINTS IN EXTERIOR SLABS AND PAVEMENTS, REFER TO ARCHITECTURAL OR CIVIL DRAWINGS.

TYPICAL JOINTS AT SLAB ON GRADE

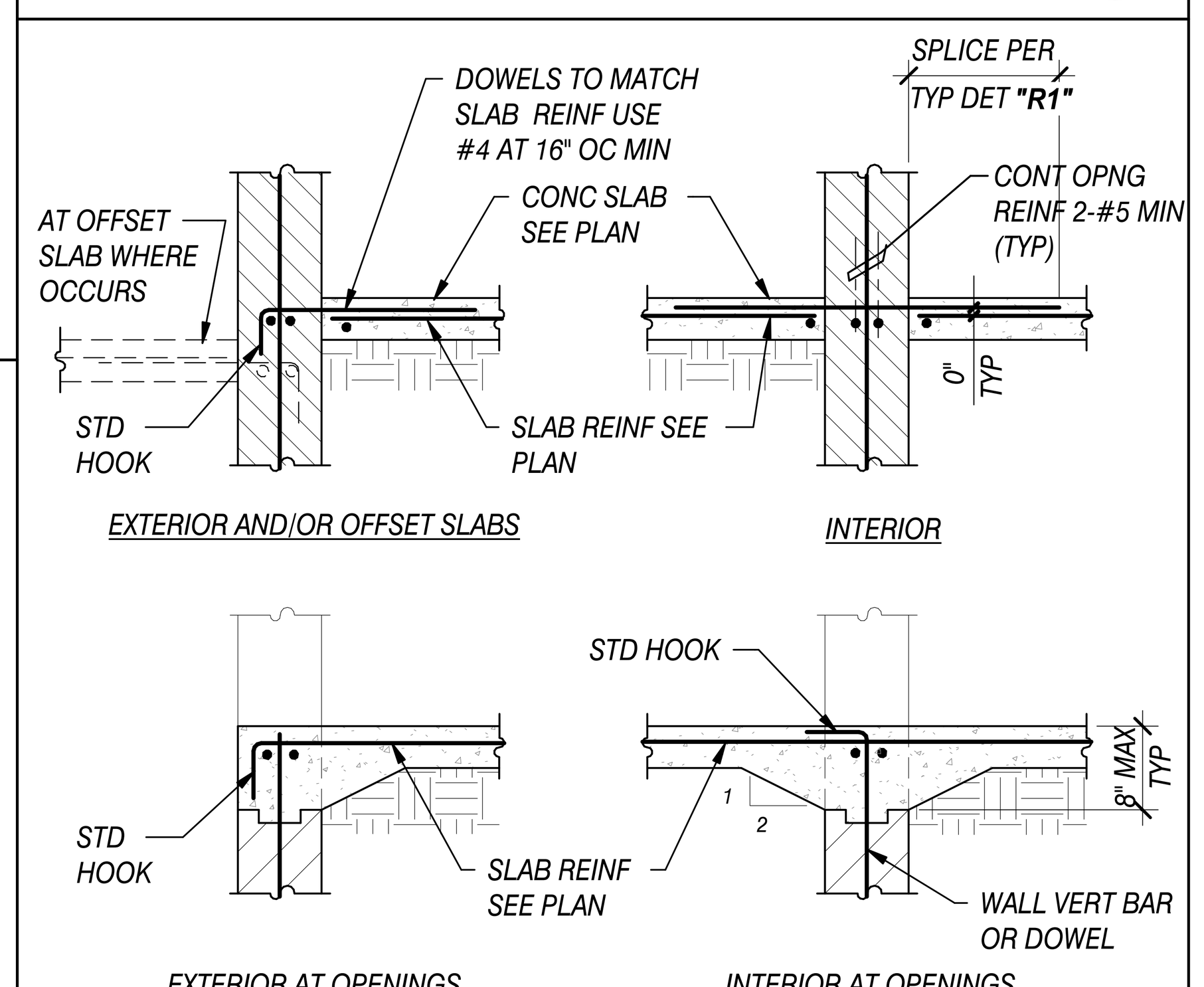
SG1 -



NOTE:
AT NARROW BLOCK-OUT TRANSVERSE JOINTS NEED NOT BE CLOSER THAN 10'-0" OC REGARDLESS OF WIDTH TO LENGTH RATIO OF BLOCK-OUT.

SLAB ON GRADE BLOCK-OUTS AND OPENINGS

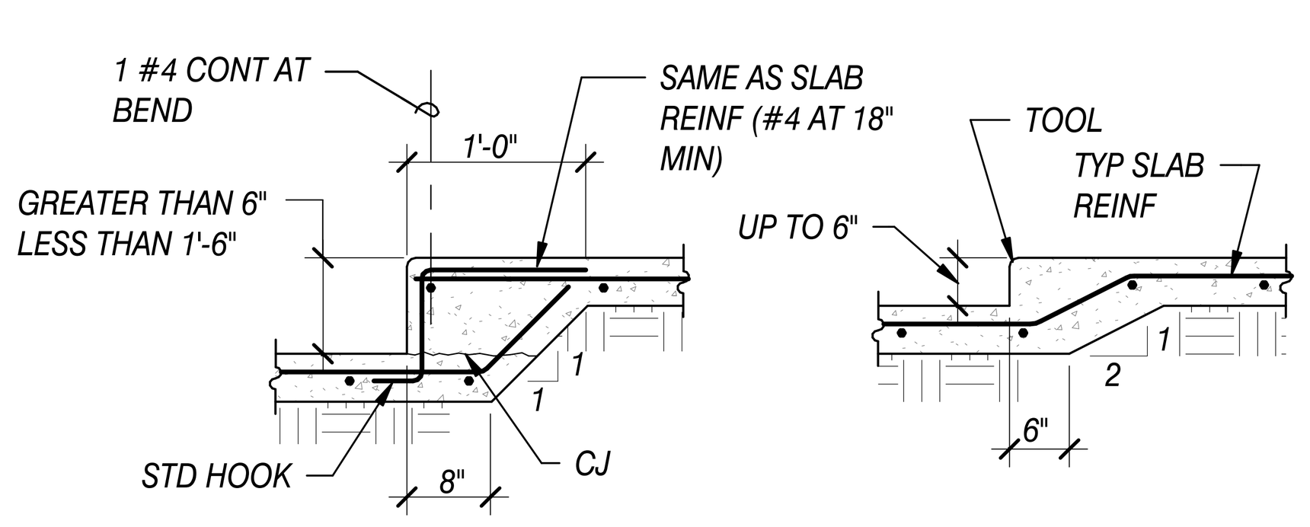
SG5 -



NOTE:
DETAIL SIMILAR AT WALLS WITH DOUBLE CURTAINS OF REINFORCING.

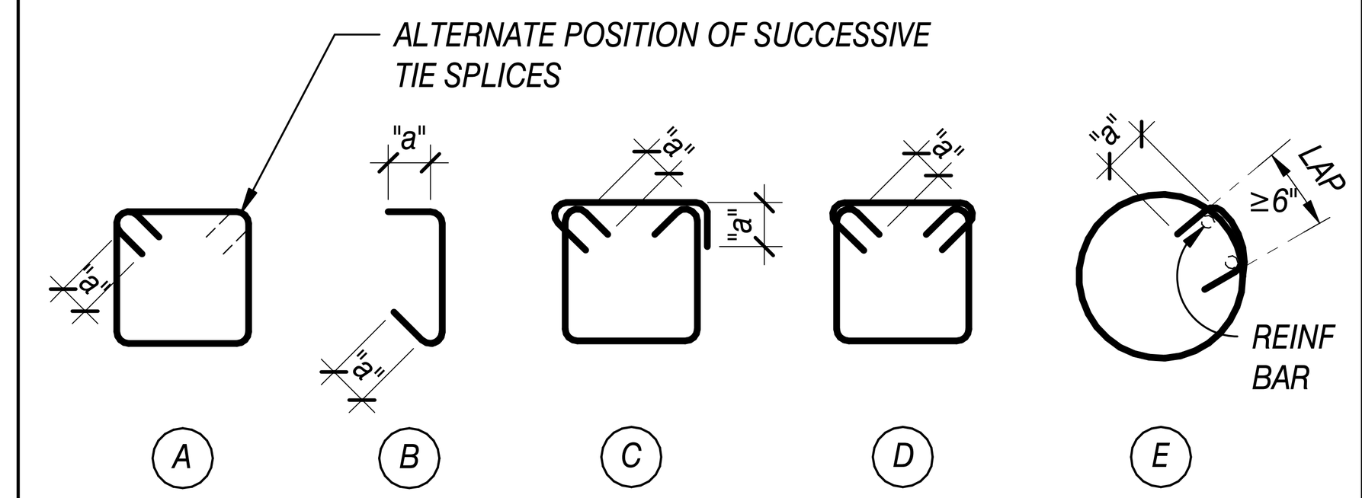
TYPICAL SLAB ON GRADE DOWELING TO MASONRY WALL

SG8 -



TYP SLAB ON GRADE AT DEPRESSION

SG9 -



NOTES:

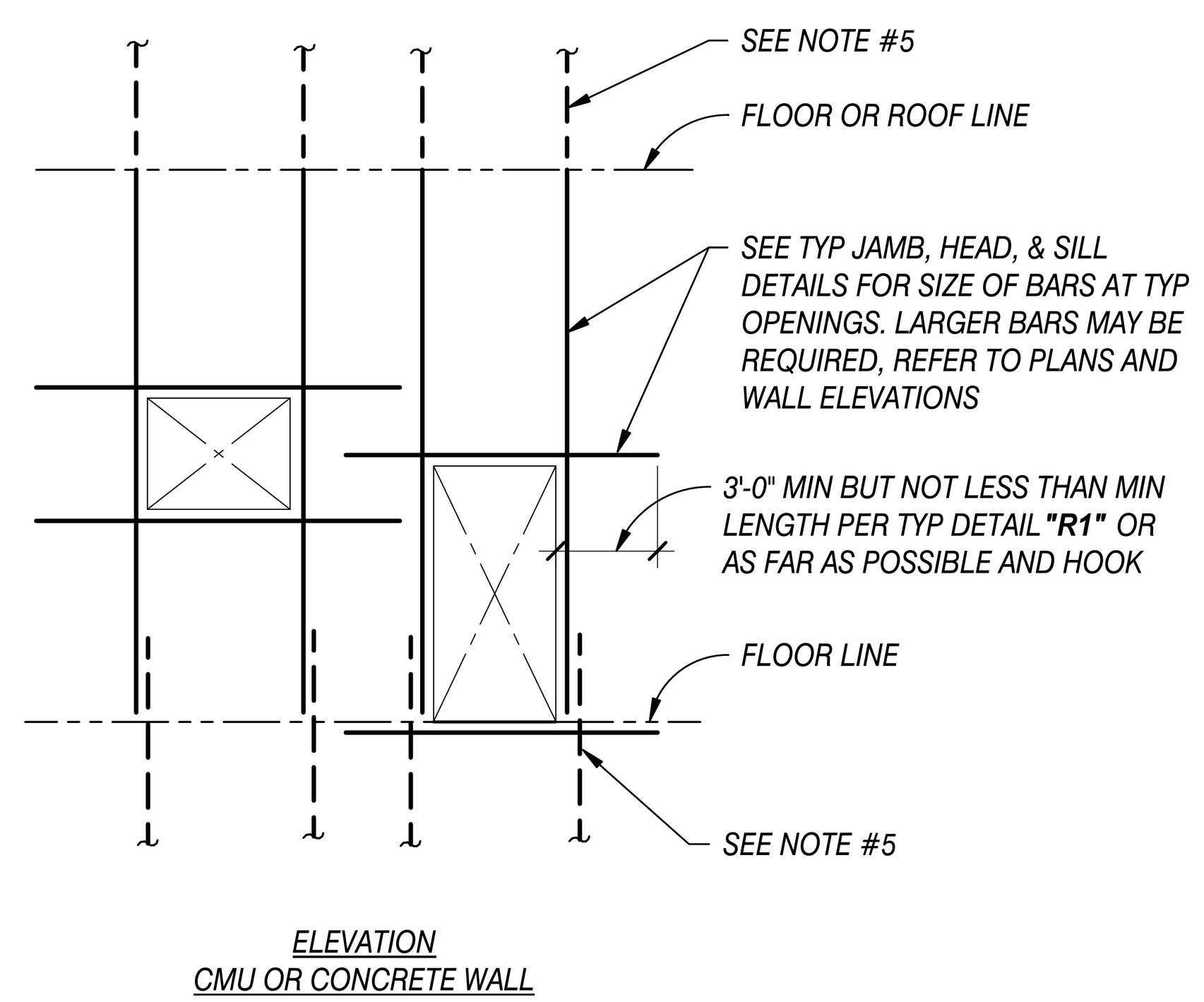
1. THIS DETAIL APPLIES TO TIES, STIRRUPS AND HOOPS IN STRUCTURAL ELEMENTS AND SHEAR WALL BOUNDARY ELEMENTS.
2. DIMENSION "a" FOR #3 TIES = 3", #4 TIES = 3" AND #5 TIES = 3 3/4". BAR BEND DIAMETER: D = 4d FOR #5 BARS & SMALLER.
3. FOR SIZE AND SPACING OF ALL TIES AND STIRRUPS REFER TO SCHEDULE AND/OR DETAILS.

TYPICAL TRANSVERSE REINFORCING DETAILS

R2 -

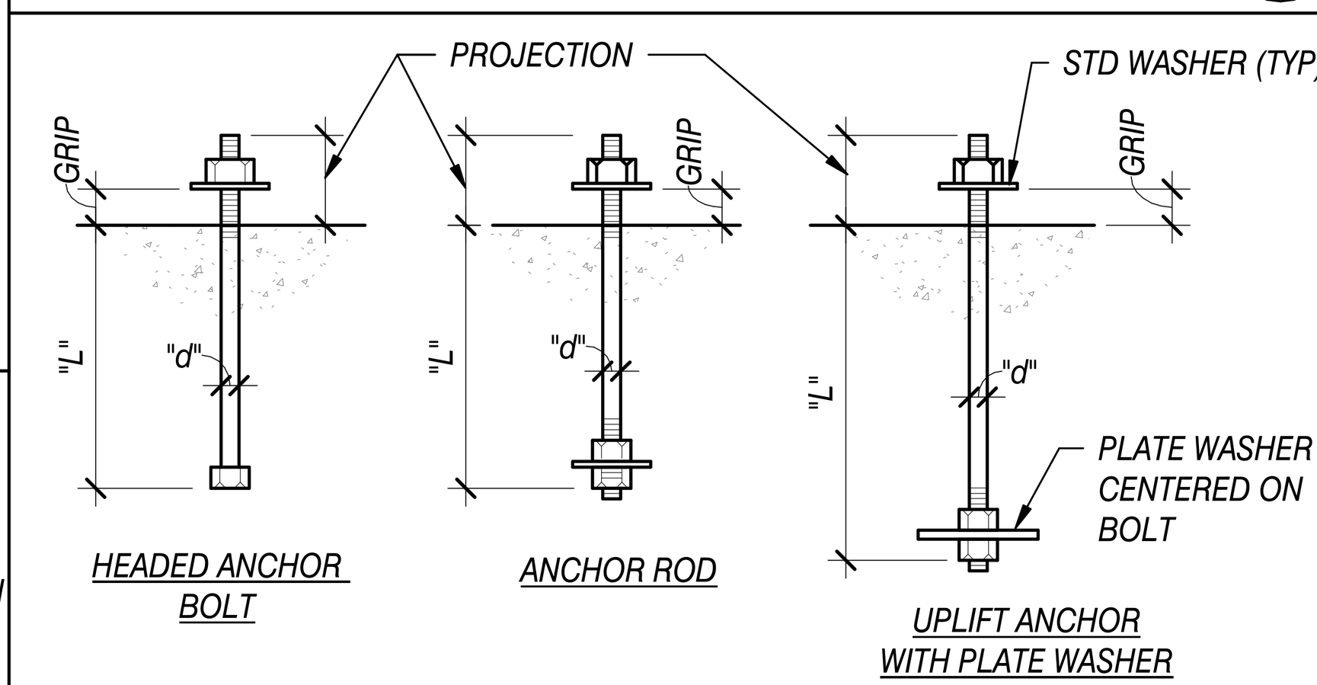
NOTES:

1. WHERE ONE OPENING OCCURS ABOVE ANOTHER EXTEND ALL SILL & LINTEL REINF 3'-0" BEYOND FURTHEST OPENING EDGE IN EACH DIRECTION.
2. WHERE OPENINGS IN A HORIZONTAL ARE SPACED APART LESS THAN 3'-0", RUN LINTEL AND SILL REINF CONTINUOUS BETWEEN OPENINGS.
3. EXTEND VERTICAL BARS CONT FLOOR TO FLOOR OR, WHERE OPENING INTERRUPTS BAR, HOOK 4" MAX CLEAR OPENING.
4. TYP WALL REINF AT TYP SPACING BETWEEN OPENING REINF BARS IS REQUIRED. SEE TYP WALL REINF DETAILS & WALL SECTIONS.
5. WHERE WALL CONTINUES ABOVE FLOOR OR ROOF LINE, EXTEND VERTICAL BARS THE REQUIRED MINIMUM SPLICE LENGTH OR PROVIDE EQUIVALENT DOWELS.



TYPICAL REINFORCING AROUND WALL OPENINGS

R3 -



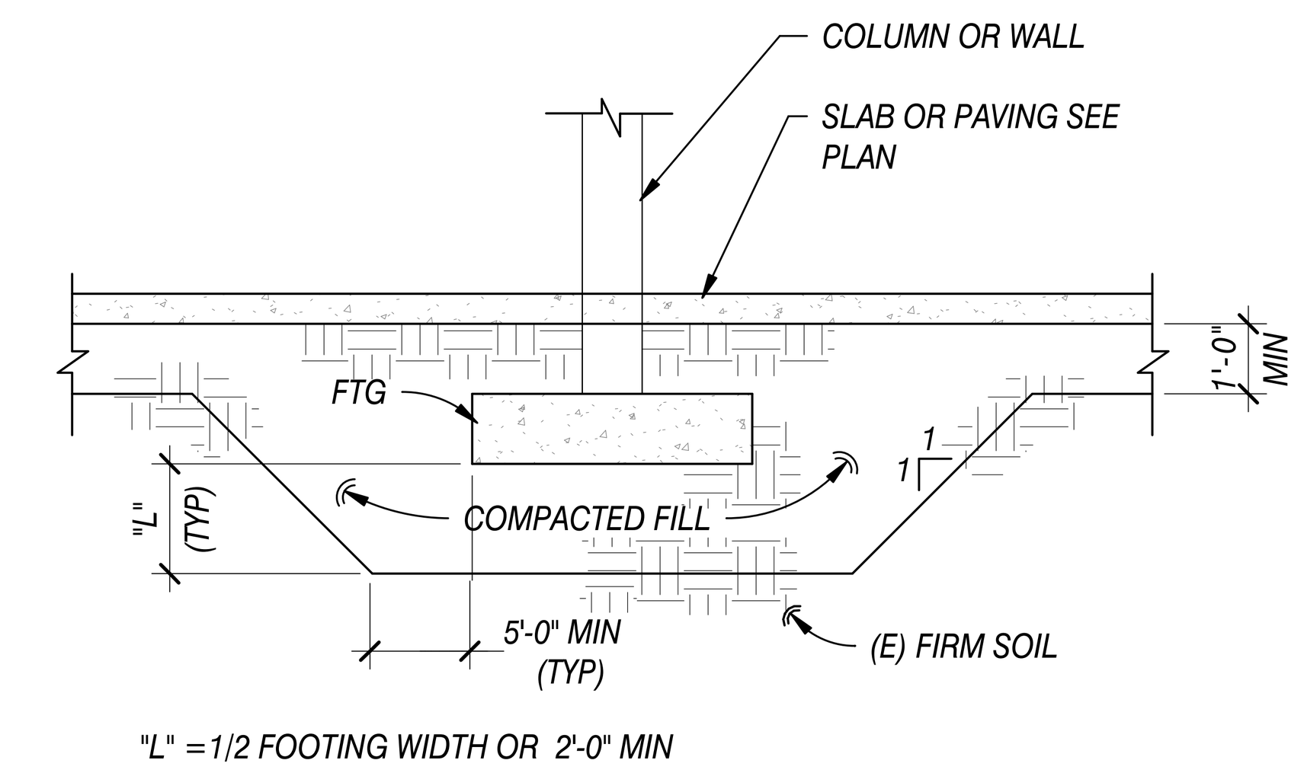
MINIMUM AB EMBEDMENT LENGTH "L"					
DIA "d"	ANCHOR BOLT OR ROD			UPLIFT PL ANCHOR	
	"L" INTO FOOTINGS	"L" TO FACE OF WALLS	"L" INTO TOP OF WALL OR COL	"L"	PLATE WASHER SIZE
1/2"	9"	4"	6"	15"	1/2"x2" SQ.
5/8"	9"	4 1/2"	6 1/2"	15"	1/2"x2 1/2" SQ.
3/4"	9"	5"	7"	15"	1/2"x2 1/2" SQ.
7/8"	11"	6"	8"	15"	1/2"x3" SQ.
1"	12"	7"	9"	18"	1"x4" SQ.
1 1/8"	12"	8"	10"	18"	1"x4" SQ.
1 1/4"	12"	-	-	18"	1"x4 1/2" SQ.
1 1/2"	14"	-	-	22"	1"x5" SQ.
1 3/4"	14"	-	-	22"	1"x6" SQ.
2"	14"	-	-	22"	1 1/8"x6" SQ.

NOTES:

1. REFER TO SPECIFIC NOTES OR DETAILS FOR ANCHOR TYPE AND SIZE. SPECIFIC DETAIL REQUIREMENTS MAY EXCEED THE REQUIREMENTS OF THIS DETAIL.
2. DETAIL SIMILAR WHERE THREADED ROD IS USED IN LIEU OF HEADED BOLT.
3. PROVIDE BOLT GRIP AND PROJECTION AS REQUIRED.
4. BOLTS AND THREADED RODS ARE ASTM F-1554 GRADE 36 (UNO), BARS AND PLATES ARE ASTM A572 GRADE 50 MATERIAL.
5. NUTS AND WASHERS SHALL COMPLY WITH ANCHOR RODS AND F436, RESPECTIVELY. MATERIAL GRADE SHALL BE COMPATIBLE WITH ANCHOR MATERIAL.

TYPICAL ANCHOR BOLTS AND RODS INTO CONCRETE

AR1 -



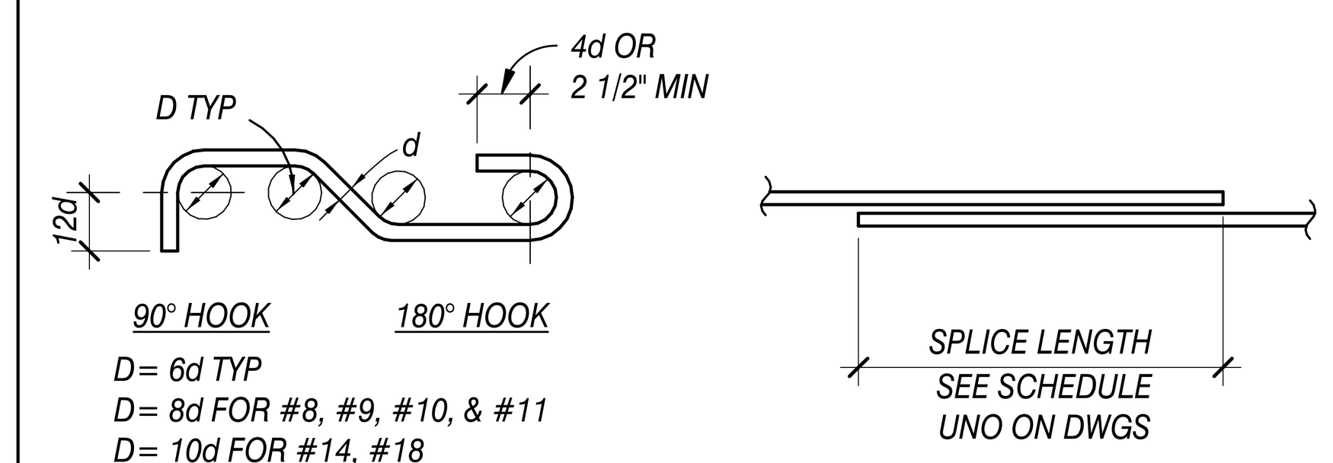
"L" =1/2 FOOTING WIDTH OR 2'-0" MIN

NOTES:

1. ALL EXISTING FILLS AND LOOSE SOIL SHALL BE REMOVED AND REPLACED AS COMPACTED FILL.
2. REFER TO SPECS AND GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS.

TYP COMPACTED FILL UNDER FOOTINGS

F6 -



D = 6d TYP
D = 8d FOR #8, #9, #10, & #11
D = 10d FOR #14, #18

NOTES:

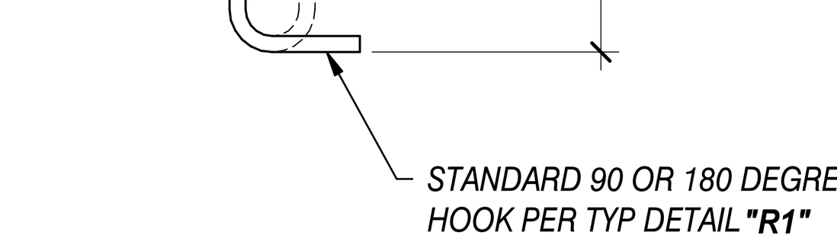
1. SPLICED BARS SHALL BE WIRED TOGETHER IN CONTACT. MAINTAIN LAPPED BARS IN SAME PLANE WITH RESPECT TO CONC SURFACE.
2. BARS IN NON-CONTACT LAP SPLICES SHALL BE SPACED NO FARTHER THAN 1/5 OF THE SPLICE LENGTH NOR 6 INCHES.
3. THE CLEAR DISTANCE BETWEEN BARS, INCLUDING BARS IN NON-CONTACT SPLICES & BARS ADJACENT TO SPLICES SHALL NOT BE LESS THAN 1.5 TIMES THE BAR DIAMETER NOR 1 1/2".
4. SPLICES ALLOWED ONLY WHERE INDICATED ON DRAWINGS.
5. DEVELOPMENT LENGTHS PER ACI 318, 25.4.2.3. LAP SPLICES PER ACI 318, 25.5.2.1.
6. INCREASE SCHEDULED LENGTHS BY 30% FOR BARS WITH MORE THAN 12 INCHES OF CONCRETE POUR BELOW (TOP BARS).
7. INCREASE SCHEDULED LENGTHS BY 33% FOR BARS IN LIGHTWEIGHT CONCRETE.
8. FOR MASONRY CONSTRUCTION USE A MINIMUM SPLICE LENGTH OF 48 BAR DIAMETERS EXCEPT USE 72 BAR DIAMETERS FOR ALL WALLS ENDS, CORNER, JAMB AND CHORD BARS.
9. MECHANICAL REBAR SPLICES MAY BE USED WITH WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER. USE DAYTON SUPERIOR BAR-LOCK COUPLERS PER ICC ESR-0319 OR SIMILAR PRODUCTS HAVING ICC APPROVAL MAY BE USED. SPECIAL INSPECTION IS REQUIRED.

MIN BAR SPLICE AND DEVELOPMENT LENGTHS (IN INCHES)

GRADE 60 BAR	CONCRETE STRENGTH			MASONRY	
	3.0 KSI	4.0 KSI	5.0 KSI	(48dia)	(72dia)
# 3	25	21	19	18	27
# 4	33	29	26	24	36
# 5	41	36	32	30	45
# 6	50	43	38	36	54
# 7	72	62	56	42	63
# 8	82	71	64	48	72
# 9	92	80	72	54	81
# 10	104	90	81	---	---
# 11	116	100	90	---	---
# 14	139	120	108	---	---
# 18	185	160	144	---	---

TYPICAL REINFORCING BAR DETAILS

R1 -

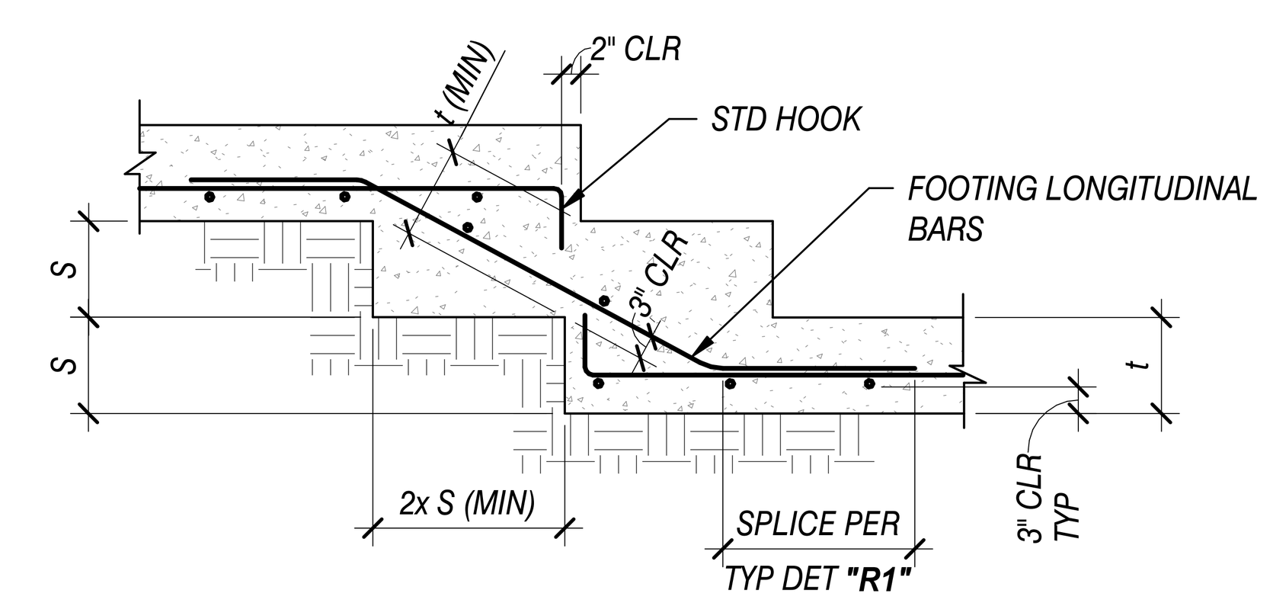


MINIMUM HOOK DEVELOPMENT LENGTHS Ldh (IN INCHES)

GRADE 60 BAR	CONCRETE STRENGTH		
	3.0 KSI	4.0 KSI	5.0 KSI
# 3	8.5	7	6
# 4	11	9.5	6
# 5	14	12	7
# 6	16.5	15	9
# 7	19.5	17	10
# 8	22	19	12
# 9	25	22	13
# 10	28	25	15
# 11	31	27	19

DEVELOPMENT OF HOOKED BARS IN CONCRETE

R1A -

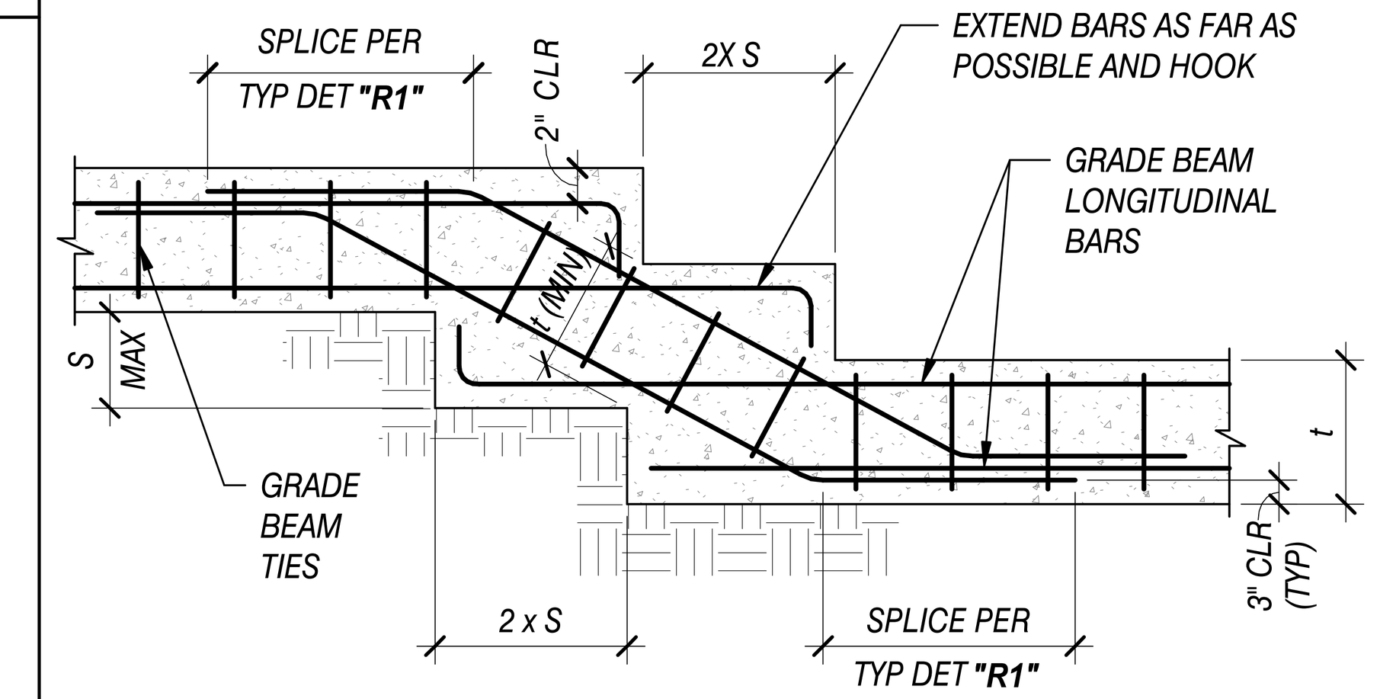


NOTES:

1. S = 1'-6" MAX
2. FOUNDATION PLAN SHOWS APPROXIMATE LOCATIONS OF THE MINIMUM STEPS REQUIRED BY THE STRUCTURAL DESIGN. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AS REQUIRED TO MEET FIELD CONDITIONS AND ALL PROJECT REQUIREMENTS.

TYPICAL STEPPED FOOTING DETAIL

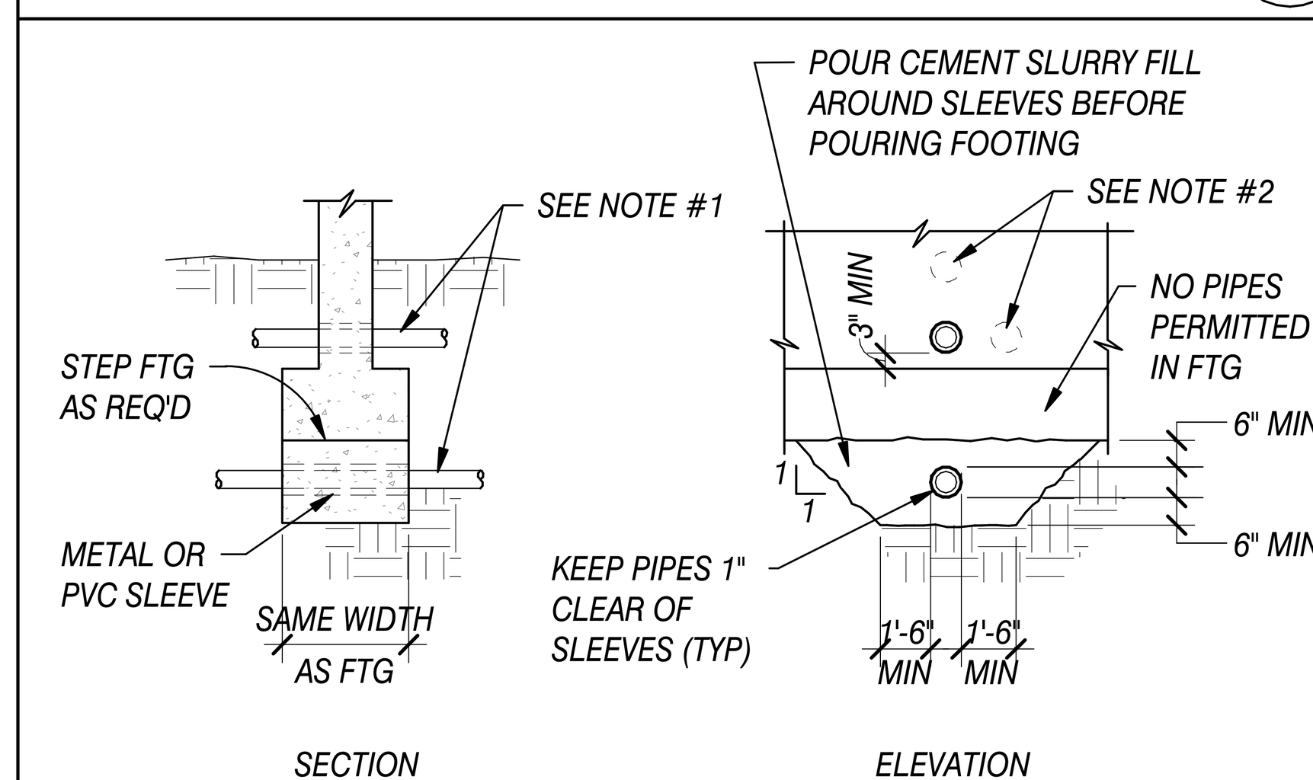
F1 -



NOTE:
S = 1'-6" MAX

TYPICAL STEPPED GRADE BEAM DETAIL

F2 -

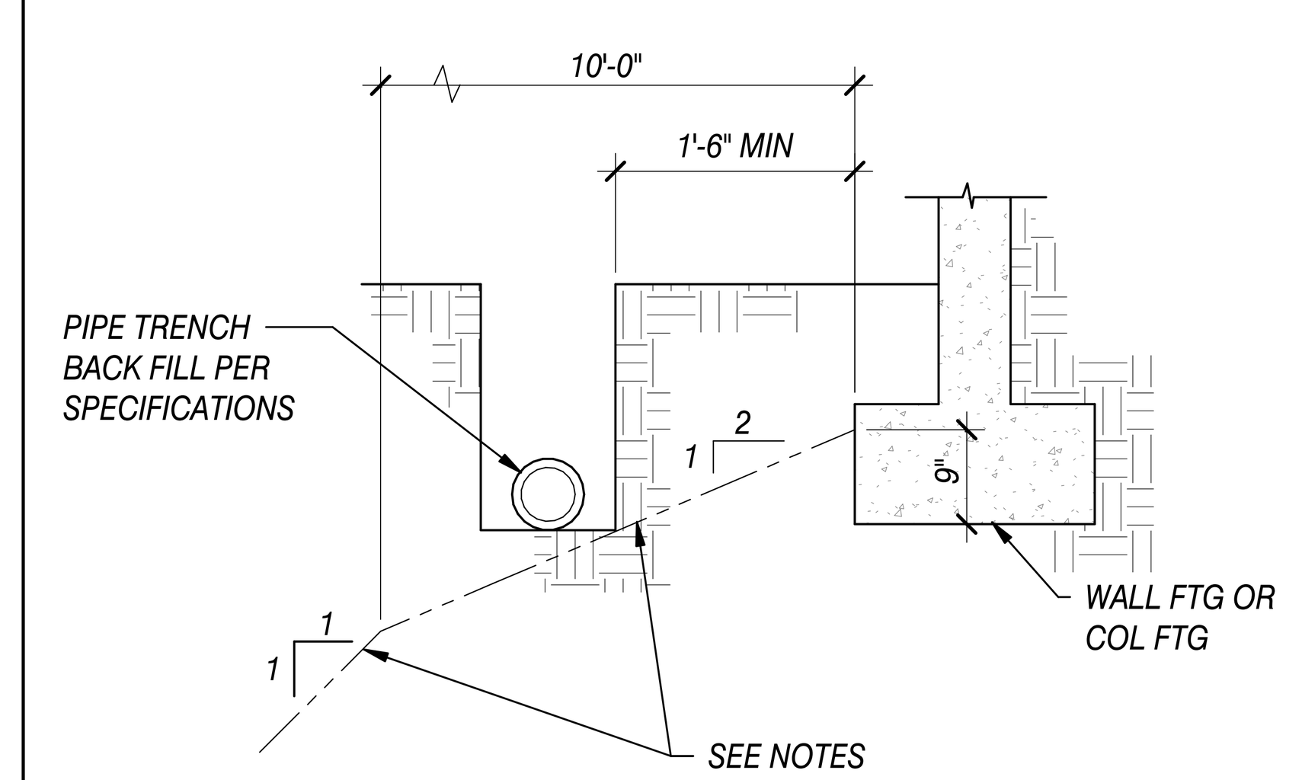


NOTES:

1. UTILITY LINES ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE LOCATIONS AND ELEVATION OF FOOTINGS WITH PLUMBING AND OTHER APPLICABLE TRADES. STEP FOOTING AS REQUIRED IN ACCORDANCE WITH TYPICAL DETAILS "F1" AND "F2".
2. PROVIDE A MINIMUM OF 3" CONCRETE BETWEEN ADJACENT PIPES
3. WHERE MULTIPLE CONDUITS OR PIPES OCCUR IN STEM WALL PROVIDE OPENING PER TYPICAL DETAIL "R3".
4. THIS DETAIL DOES NOT APPLY TO ELECTRICAL CONDUITS BANKS BELOW THE FOOTING THAT ARE ENCASED IN CONCRETE AS SPECIFIED BY THE ELECTRICAL ENGINEER.

PIPES AND CONDUITS CROSSING FOOTINGS

F3 -



NOTES:

1. NO EXCAVATIONS PERMITTED BELOW THIS LINE AFTER FOOTING HAS BEEN CONSTRUCTED UNLESS EXCAVATION IS SHORED AS REQUIRED TO RESIST THE EFFECT OF THE FOUNDATION PRESSURE
2. ANY PIPE OR CONDUIT BELOW THIS LINE SHALL BE ENCASED IN CONCRETE OR RATED AND APPROVED BY THE SPECIFYING ENGINEER TO WITHSTAND THE EFFECT OF THE FOUNDATION PRESSURE.

PIPE TRENCH EXCAVATION ADJACENT TO FTG

F4 -

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BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL AQUATIC CENTER MODERNIZATION STORAGE BLDG

902 NORTH 3RD STREET
BURBANK, CA 91502

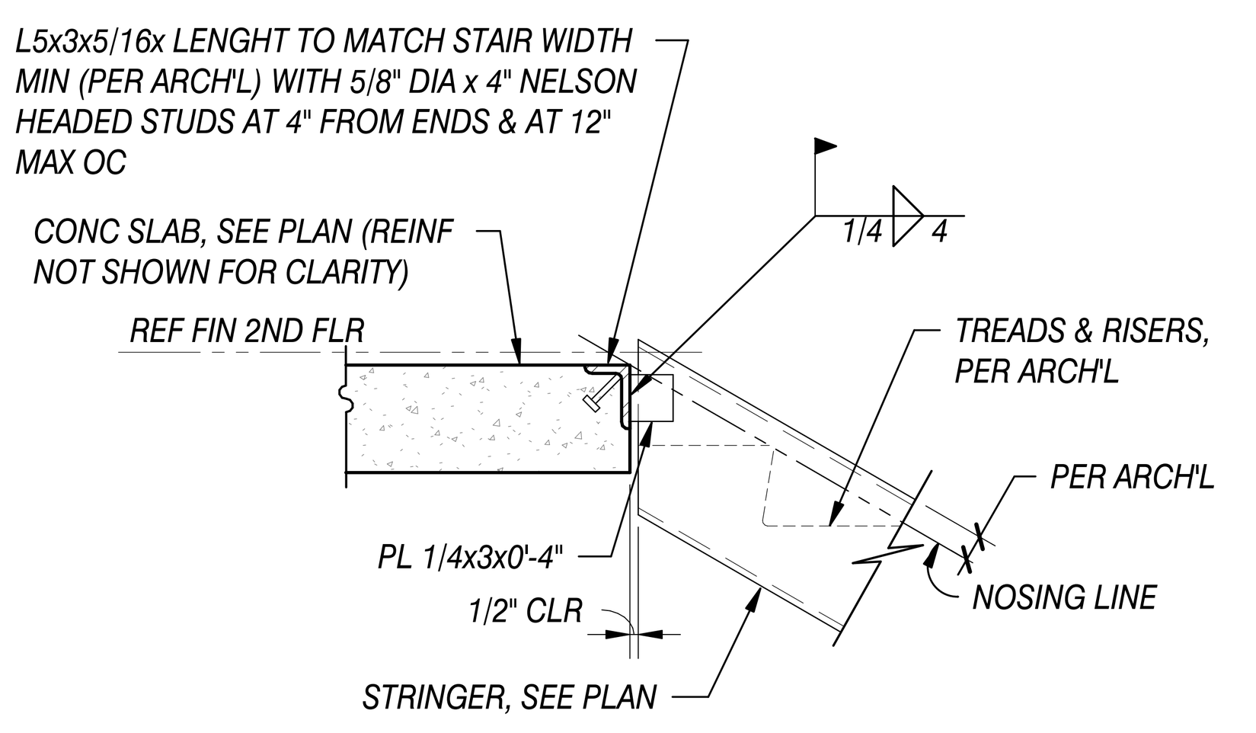
Sheet Title:

TYPICAL DETAILS

Job No. 2986.0000

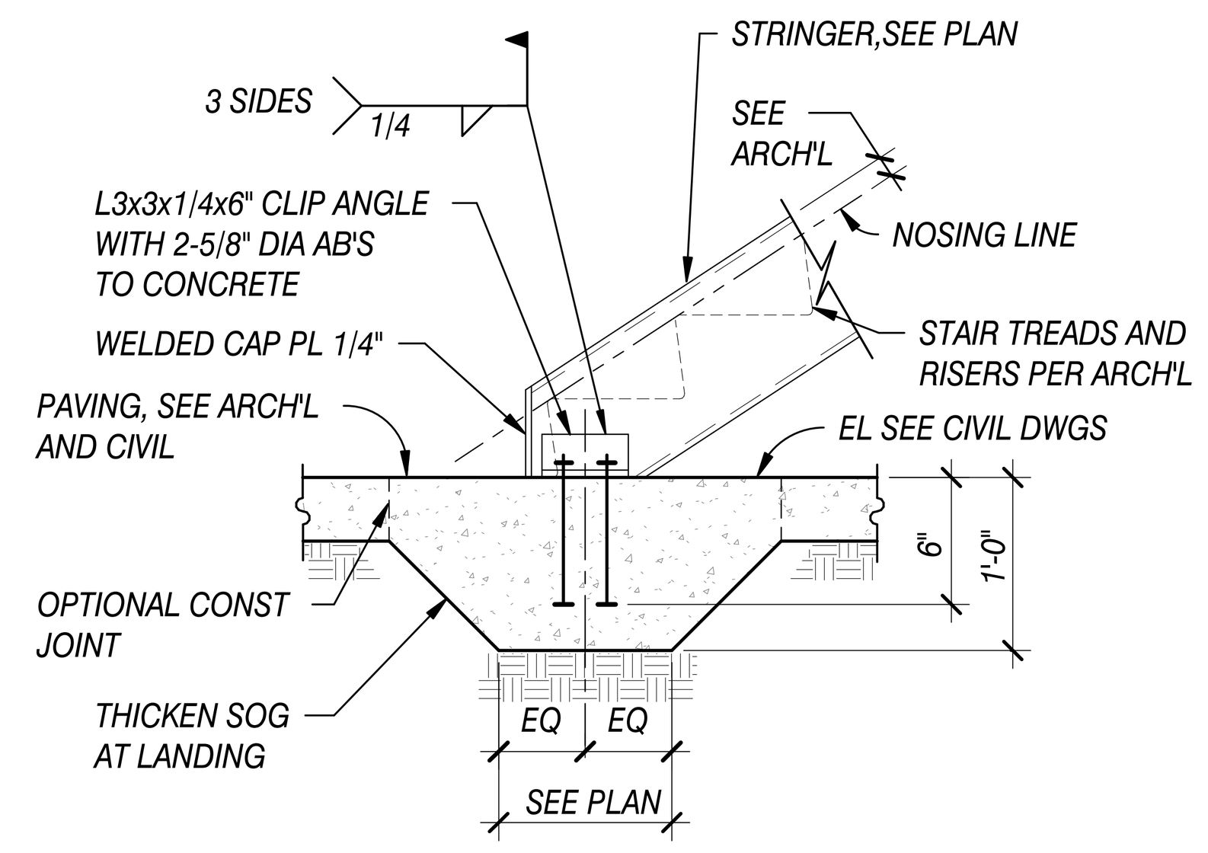
Date. 06-28-2023

S1.2



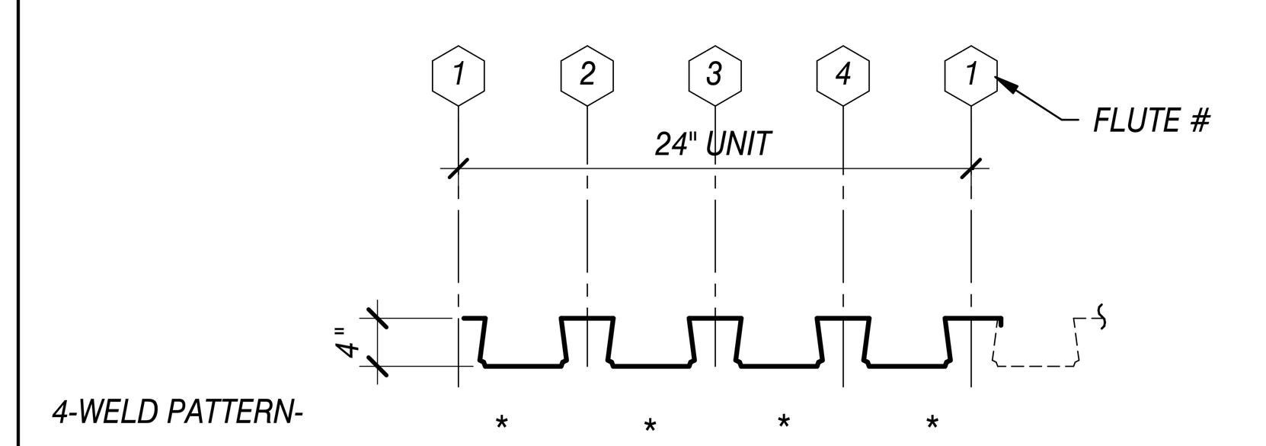
TYPICAL STAIR TOP CONNECTION

SF1A -



TYPICAL STAIR BOTTOM CONNECTION

SF1B -



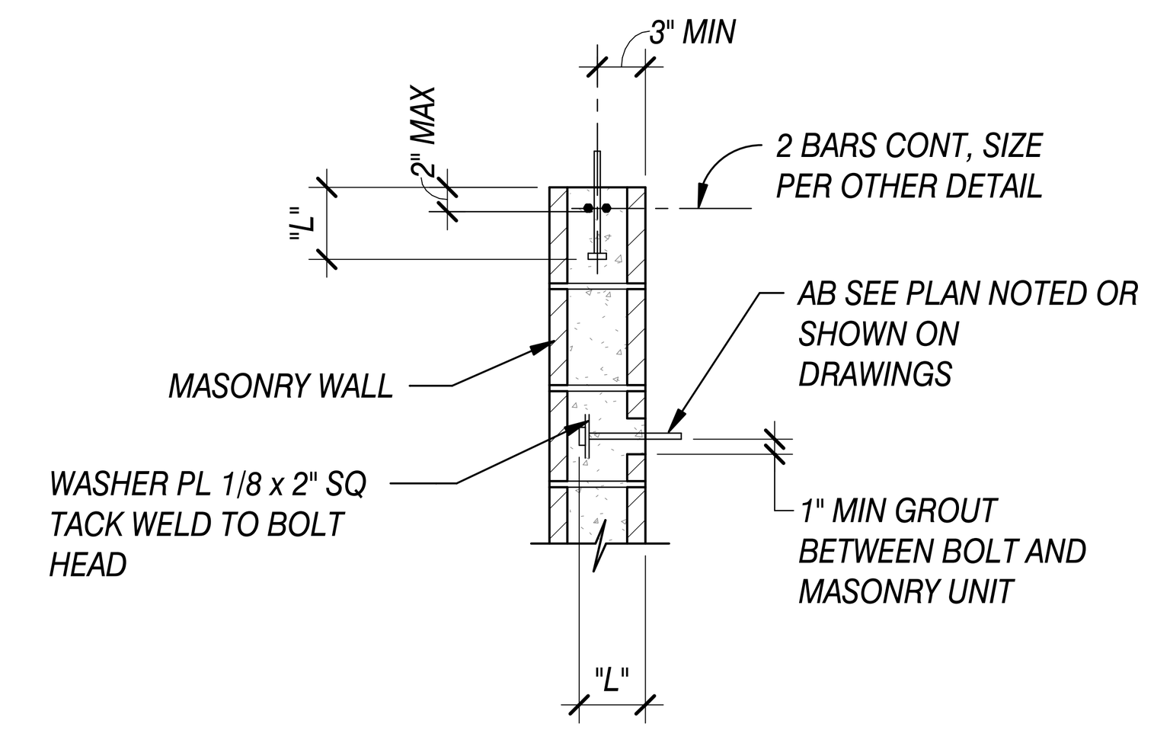
*TORIS 4" DECK

TYPE	GA	I (IN)^4	S(+) (IN)^3	S(-) (IN)^3	REMARKS
TORIS 4	16	1.31	0.81	0.78	NON-COMPOSITE

NOTES:
1. REFER TO PLANS FOR STEEL DECK TYPE, GAGE AND WELD SPACING.
2. (*) ASTERISK INDICATES LOCATION OF 1/2" EFFECTIVE PUDDLE WELD.

TYPICAL STEEL DECK WELDING DETAIL

SD2 -



BOLT DIA	EMBED "L" FACE	EMBED "L" TOP	MINIMUM WALL THICKNESS FOR BOLTS ON FACE
1/2"	4"	6"	6"
5/8"	4 1/2"	6 1/2"	8"
3/4"	5"	7"	8"
7/8"	6"	8"	10"
1"	7"	9"	12"

TYP. ANCHOR BOLTS IN MASONRY WALL

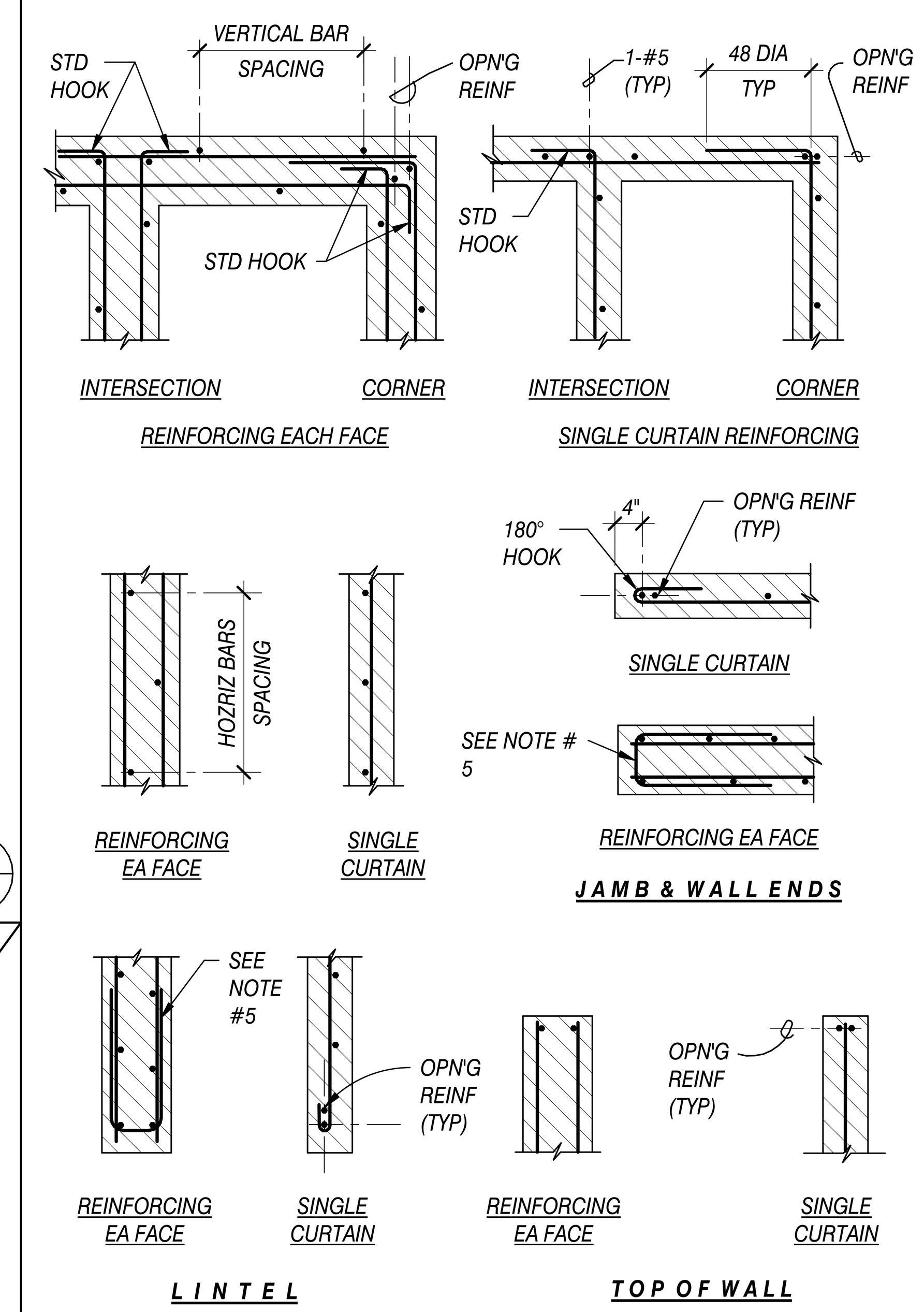
M7 -

OMITTED

M8 -

OMITTED

M9 -



NOTES:
1. GROUT ALL CELLS AND CAVITIES SOLID.
2. AT CMU WALLS USE OPEN END BLOCK AT VERTICAL REINFORING BARS.
3. REFER TO TYPICAL MASONRY WALL REINFORCING SCHEDULE ON TYPICAL DETAIL **"M2"**
4. AT SINGLE CURTAIN REINFORCING PLACE VERTICAL BARS ON WALL CENTERLINE. AT DOUBLE CURTAIN REINFORCING PLACE VERTICAL REBAR AS CLOSE TO MASONRY SURFACE AS THE MINIMUM CLEARANCES WILL PERMIT.
5. AT DOUBLE CURTAIN REINFORCING, BAR TIES SHALL BE PROVIDED AT LINTELS, JAMBS AND WALL ENDS TO MATCH WALL REINFORCING BAR SIZE AND SPACING. LAP TIE LEGS 48 DIAMETER WITH WALL REINFORCING.

TYPICAL MASONRY WALL DETAIL

M1 -

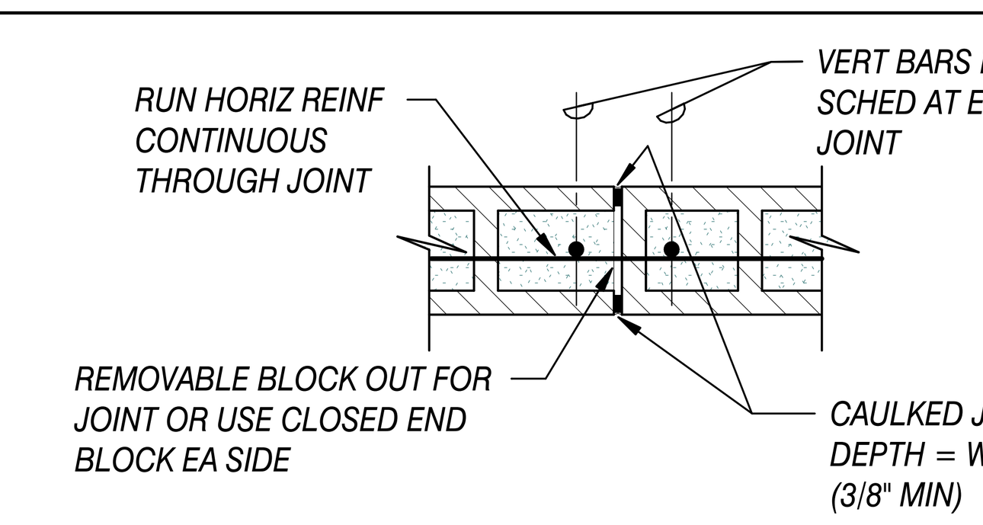
TYPICAL REINFORCING SCHEDULE (UNO ON DWGS)

WALL THK	VERT BARS	HORIZ BARS	OPEN'G REINF
6" BLOCK	#5 AT 24" OC	#4 AT 24" OC	1-#5
8" BLOCK	#5 AT 16" OC	#4 AT 24" OC	2-#5
12" BLOCK	#5 AT 32" OC EF	#4 AT 24" OC EF	2-#5

NOTES:
1. BARS SHALL HAVE A MINIMUM OF 1 BAR DIAMETER OR ONE-HALF INCH(WHICHEVER IS GREATER) TO THE MASONRY SURFACE.
2. SPLICE VERTICAL BARS ONLY AT POINTS OF LATERAL SUPPORT (FRAMED LEVELS). WHERE SPLICES ARE REQUIRED MID-HEIGHT, SPLICES SHALL BE STAGGERED.
3. OPENING REINFORCING SHALL BE PROVIDED AROUND ALL OPENINGS PER TYPICAL DETAIL **"R3"** AND AT EACH FLOOR LEVEL AND TOP OF WALL.

TYP MASONRY WALL REINFORCING

M2 -



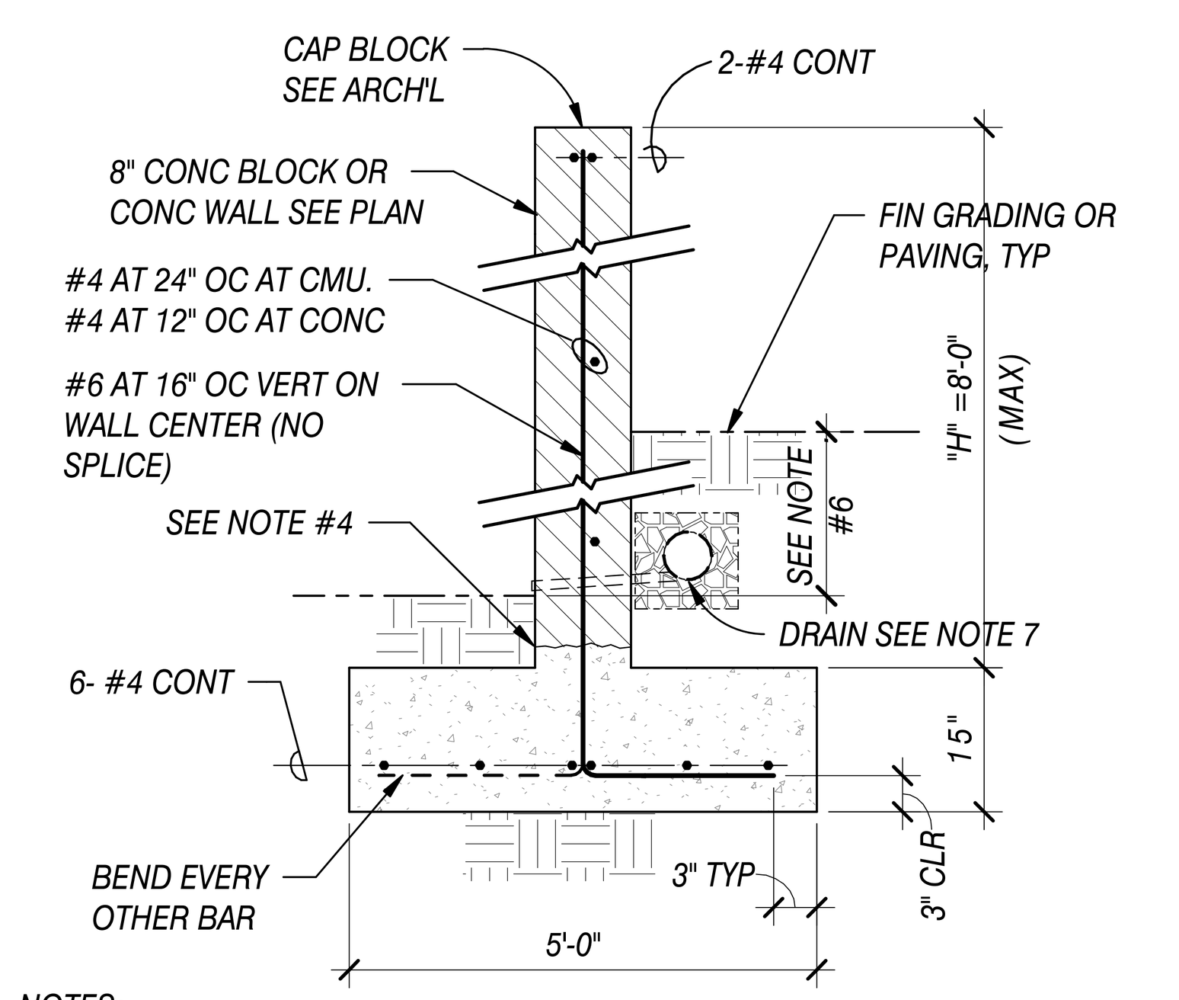
NOTES:
1. ALLOW FOR JOINTS AT 25'-0"± FOR BLDG'S AND 20'-0"± FOR RETAINING WALLS AND SITE WALLS UNO. WHERE JOINTS ARE NOT INDICATED ON PLANS SUBMIT DRAWINGS INDICATING ALL JOINTS FOR APPROVAL.
2. DETAIL SIMILAR AT DOUBLE CURTAIN REINFORCING.

TYPICAL MASONRY WALL CONTROL JOINT

M4 -

OMITTED

C12 -



NOTES:
1. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR MASONRY AND CONCRETE. WHERE WALLS THICKER THAN 8" ARE SPECIFIED, REFER TO TYPICAL WALL REINF SCHEDULES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR FREE STANDING WALL LOCATION, DIMENSIONS, FINISHES, ETC.
3. DETAIL SIMILAR AT 8" CONC FREE STANDING WALL.
4. OPTIONAL STARTER WALL 1 1/2" MIN, 8" MAX.
5. REFER TO TYPICAL DETAILS FOR CONTROL JOINTS.
6. MAXIMUM GRADE DIFFERENCE ON OPPOSITE SIDES OF WALLS IS 4'-0".
7. PROVIDE FRENCH DRAIN AND DISCHARGE WEEP HOLES AS REQ'D PER GEOTECH REPORT.

TYPICAL FREESTANDING WALL DETAIL

SI3 -

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BURBANK HIGH SCHOOL AQUATIC CENTER MODERNIZATION STORAGE BLDG

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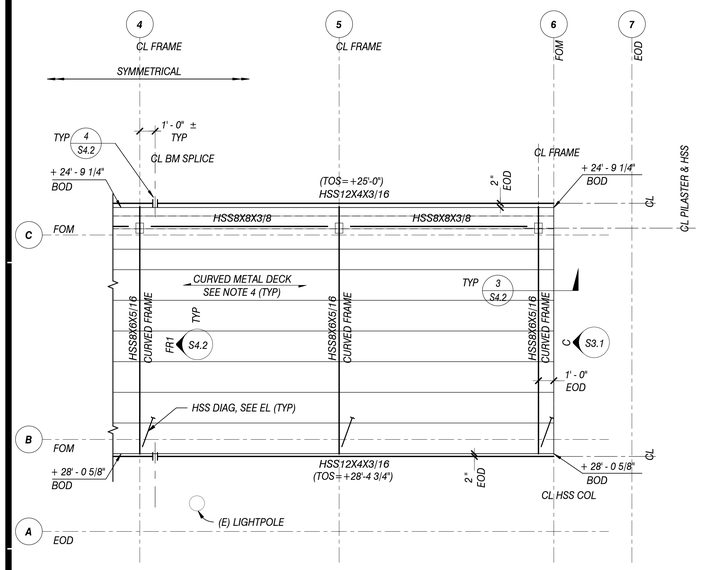
Sheet Title:

TYPICAL DETAILS

Job No. 2986.0000

Date. 06-28-2023

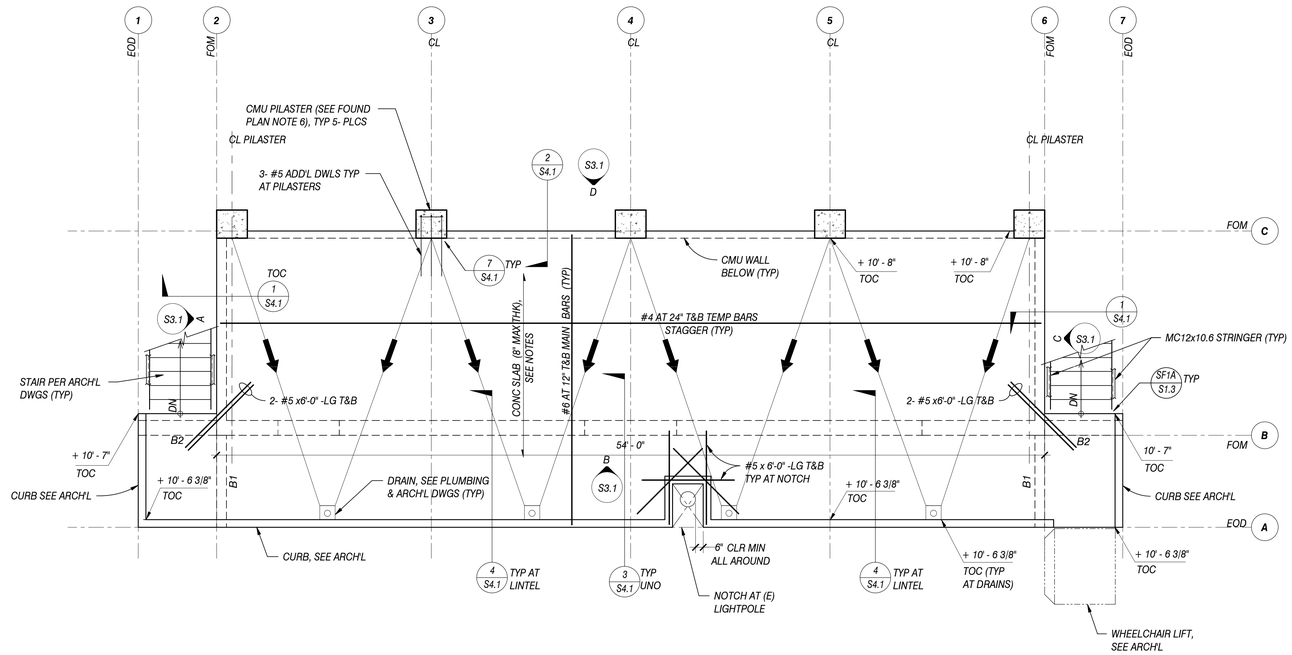
S1.3



CANOPY FRAMING PLAN

1/4"=1'-0"

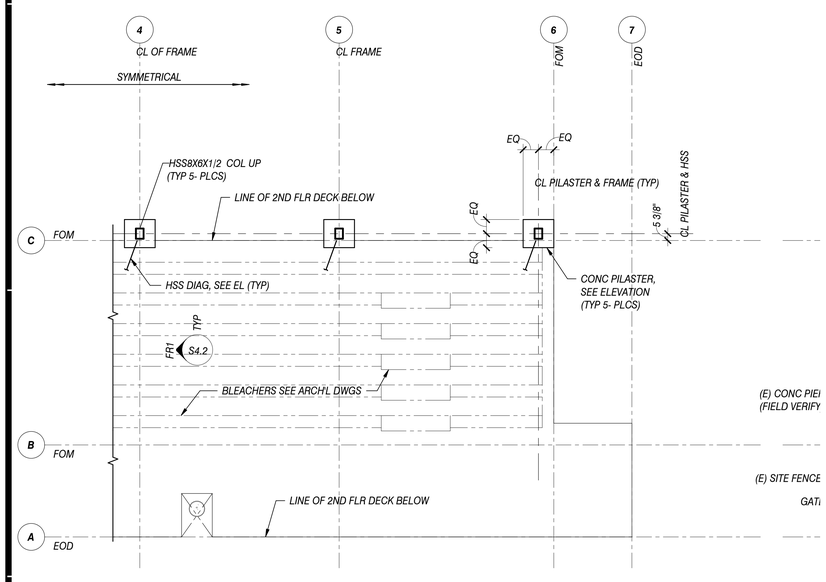
NOTES:
1. REFER TO SHEET S1.1 TO S1.3 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. FOR ALL GRID AND BUILDING DIMENSIONS AND ELEVATIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
3. CANOPY BOD (BOTTOM OF DECK) ELEVATION VARIES AS NOTED ON PLAN FROM REFERENCE FINISH GROUND FLOOR. VERIFY W/ ARCH'L DWGS.
4. DECK CONSISTS OF 4" TYPE "TORIS 4" GALVANIZED 16 GAGE STEEL DECK MANUFACTURED BY EPIC METALS CORPORATION (IAPMO ER-226) ATTACHED PER TYP DET **"SD2"** AS FOLLOWS:
   SUPPORTS - 4- 1/2" EFF DIA PUDDLE WELDS PER 24" WIDE UNIT
   BOUNDARIES - 1/2" EFF DIA PUDDLE WELDS AT 12" OC
   SIDE SEAMS - 1/8" FILLET WELDS 1 1/2" LONG AT 24" OC.
5. TOP OF STEEL ELEVATION (TOS)=BOD ELEVATION TYP UNO.



2ND FLOOR FRAMING PLAN

1/4"=1'-0"

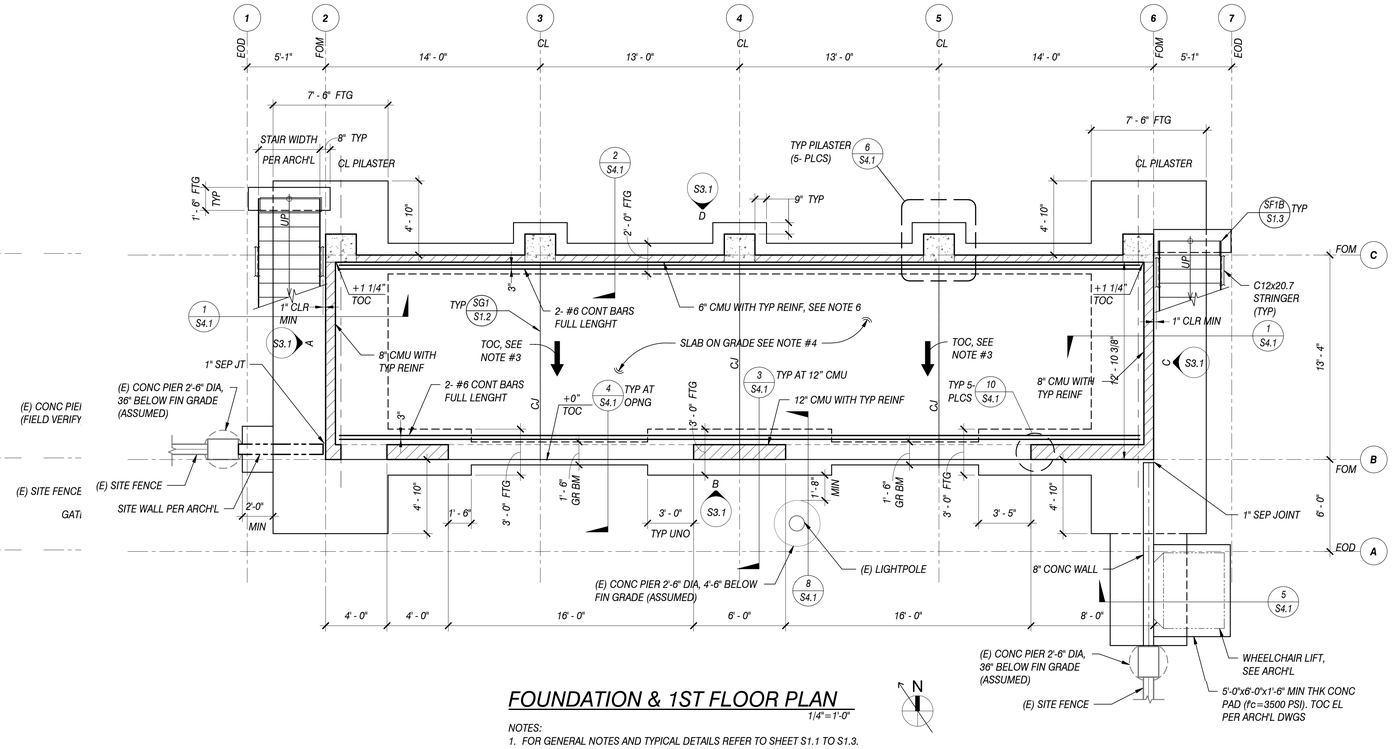
NOTES:
1. REFER TO SHEET S1.1 TO S1.3 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. 2ND FLOOR DECK TOC ELEVATIONS FROM REFERENCE 1ST FLOOR VARIES, SEE PLAN.
3. BOTTOM OF 2ND FLR CONC SLAB IS AT +10'-0" CONSTANT.
4. FOR ALL GRID AND BUILDING DIMENSIONS AND ELEVATIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
5. B# - INDICATES CONCRETE BEAM NUMBER, SEE DETAIL 5 / S4.2



PLAN AT TOP OF PILASTERS

1/4"=1'-0"

NOTES:
1. REFER TO SHEET S1.1 TO S1.3 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. TOP OF CONC PILASTER EL.= +22'-0" (VERIFY WITH ARCH'L DWGS)
3. FOR ALL GRID AND BUILDING DIMENSIONS AND ELEVATIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.



FOUNDATION & 1ST FLOOR PLAN

1/4"=1'-0"

NOTES:
1. FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO SHEET S1.1 TO S1.3.
2. REFERENCE GROUND FLOOR EL.= +0'-0" =44.083 CIVIL DATUM.
3. FINISH TOC SLAB ON GRADE ELEVATION VARIES, SLOPE TO DRAIN PER ARCH'L DWGS.
4. SLAB ON GRADE CONSISTS OF 5" THICK REINFORCED WITH #4 AT 12" EA WAY TYP AT MID-DEPTH. NO OPENINGS IN SOG ARE ALLOWED WITHOUT WRITTEN APPROVAL FROM SEOR. SOG IS DESIGNED AS A DIAPHRAGM FOR SEISMIC LOAD TRANSFER.
5. TOF= -0'-8" FROM REF FIN FLOOR.
6. CMU MASONRY AT LINE "C" SHALL BE 2,500 PSI MASONRY.
7. FOR ALL GRID AND BUILDING DIMENSIONS AND ELEVATIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

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902 NORTH 3RD STREET
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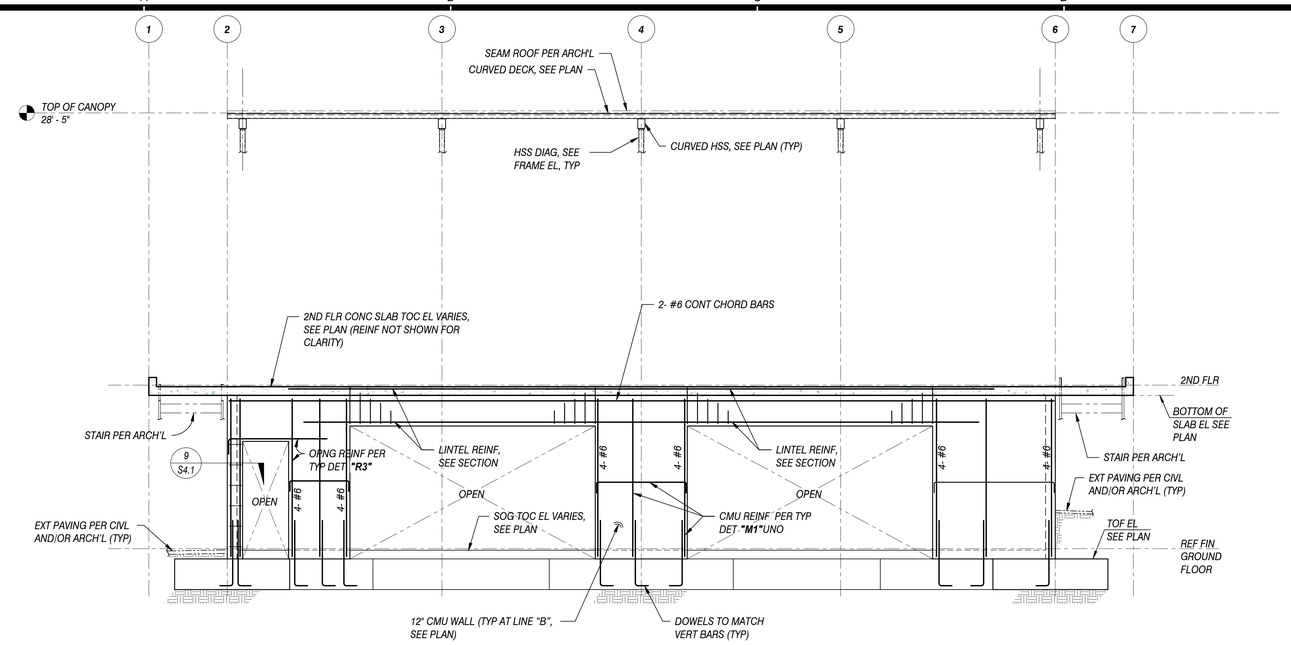
Sheet Title:

FOUNDATION, 1ST FLOOR PLAN, 2ND FLOOR & CANOPY FRAMING PLAN

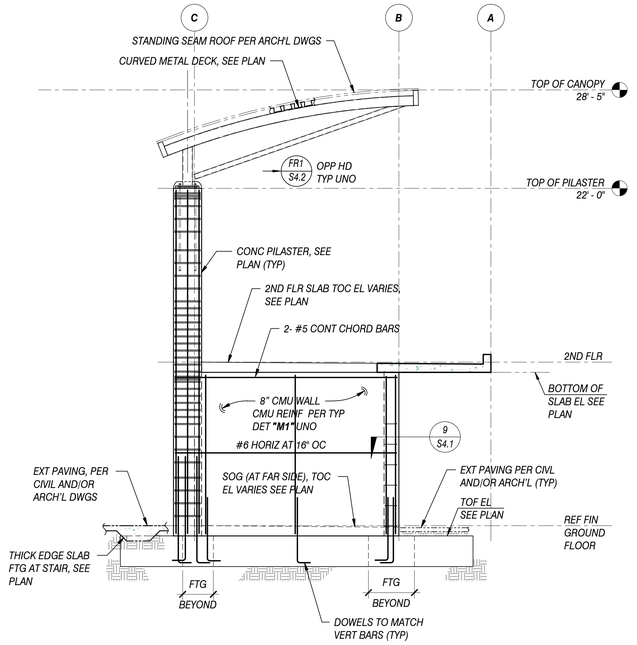
Job No. 2986.0000

Date. 06-28-2023

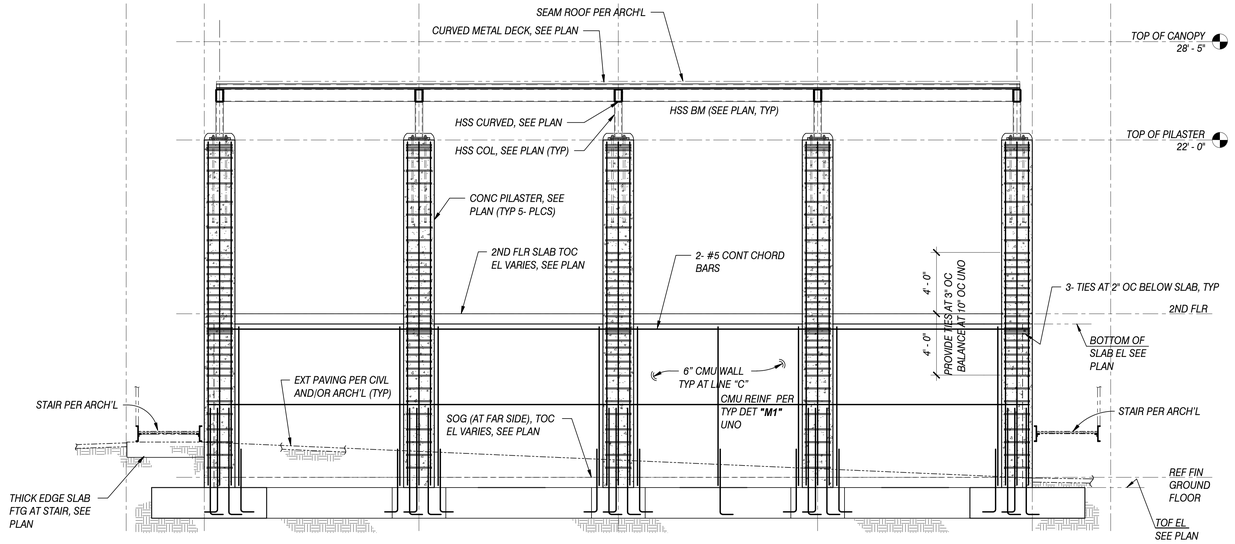
S2.1



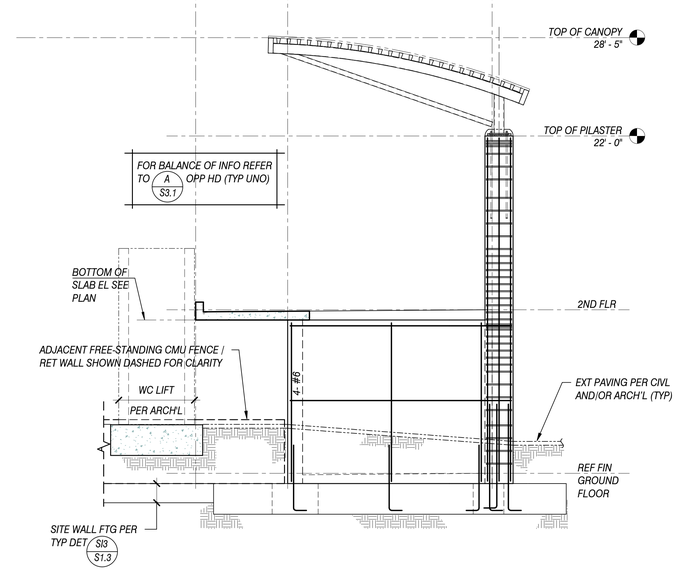
B S3.1 **WALL ELEVATION AT LINE "B"**
1/4" = 1'-0"



A S3.1 **WALL ELEVATION AT LINE "2"**
1/4" = 1'-0"



D S3.1 **WALL ELEVATION AT LINE "C"**
1/4" = 1'-0"



C S3.1 **WALL ELEVATION AT LINE "6"**
1/4" = 1'-0"

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WALL ELEVATIONS

Job No. 2986.0000

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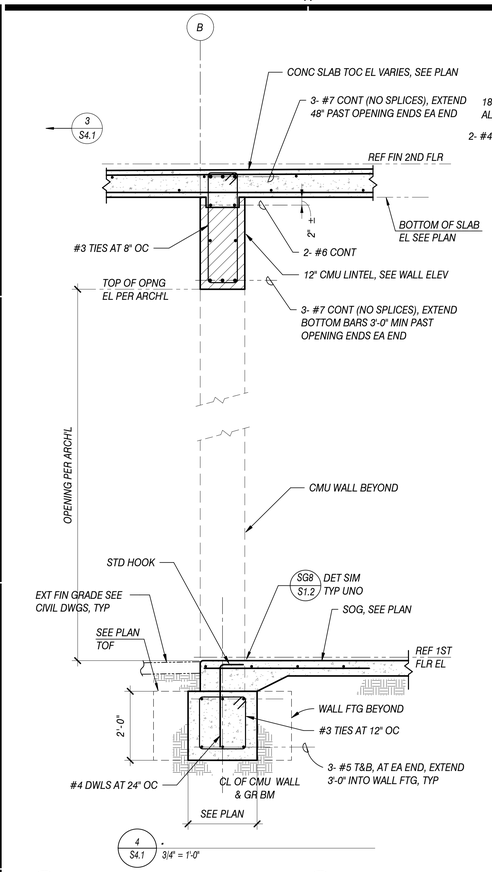
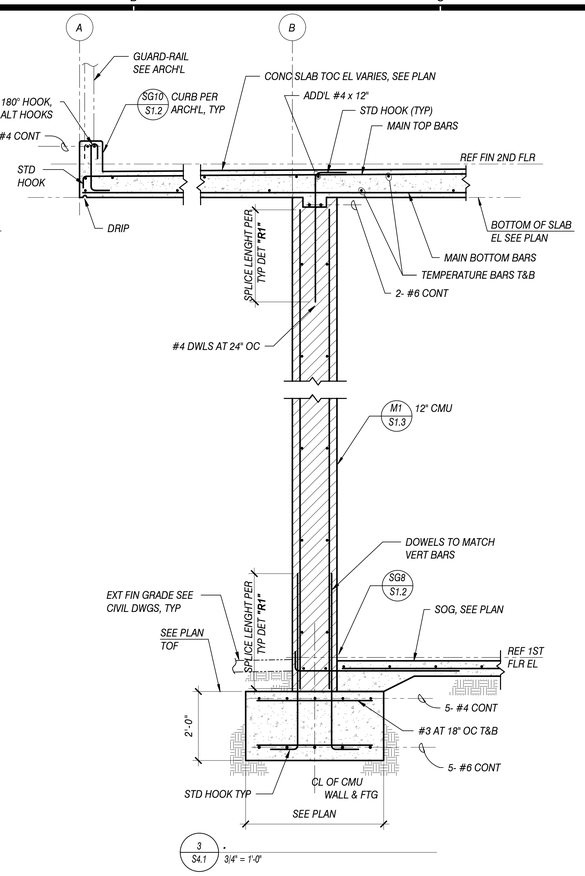
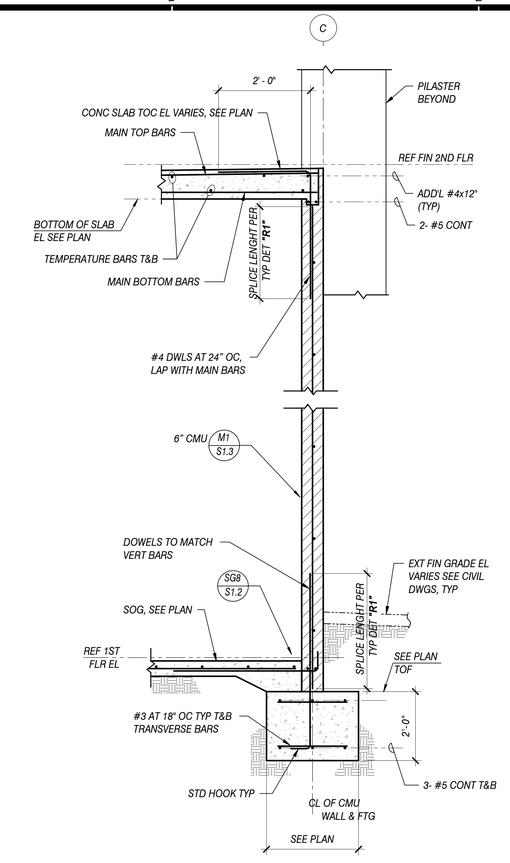
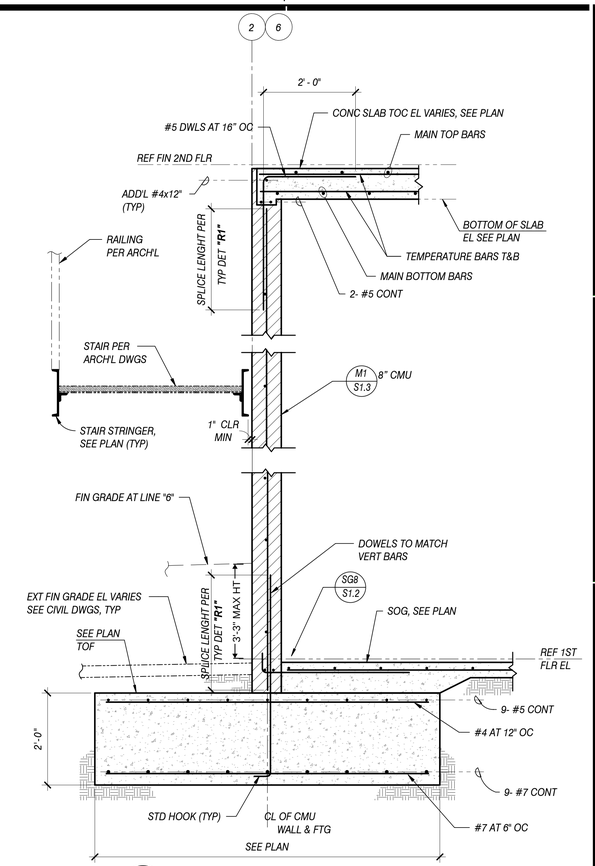
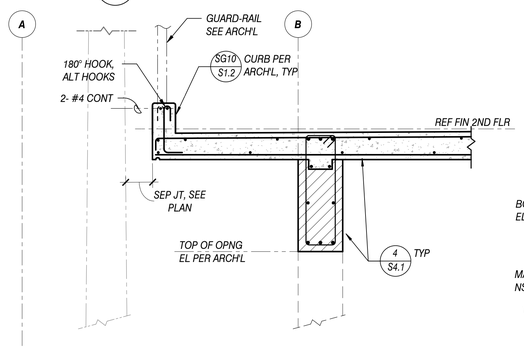
S3.1

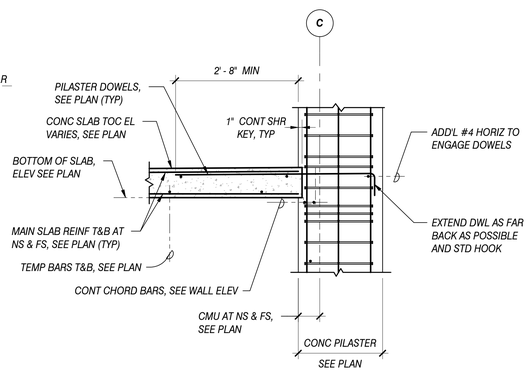




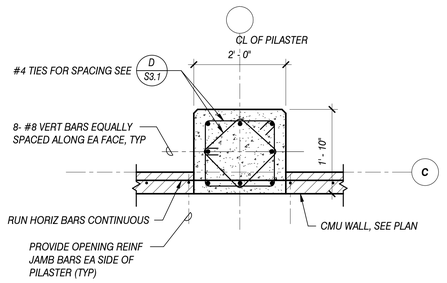




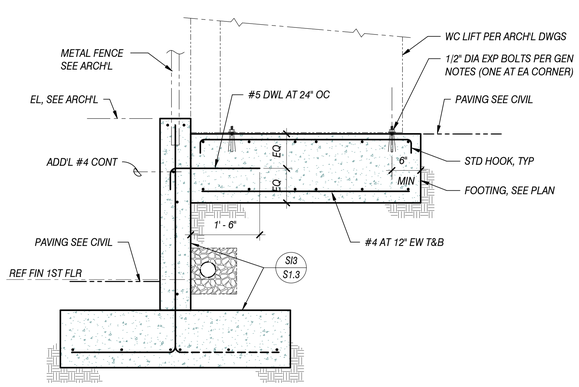




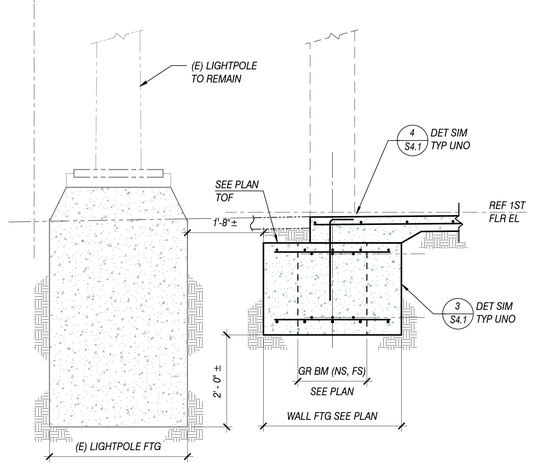
7 S4.1 DOWELS TO PILASTER
3/4" = 1'-0"



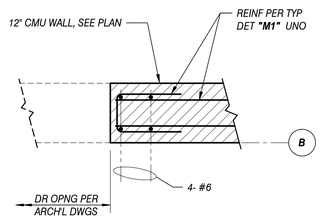
6 S4.1 TYP CONC PILASTER
3/4" = 1'-0"



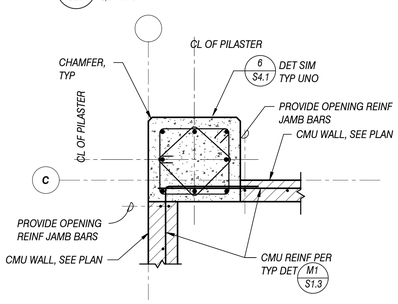
5 S4.1 SECTION AT STARTER WALL
3/4" = 1'-0"



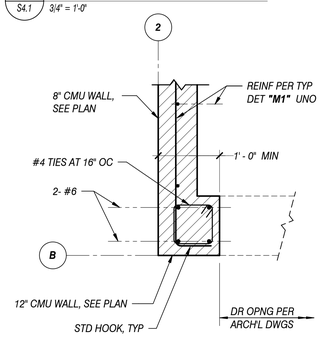
8 S4.1 SECTION AT (E) LIGHTPOLE
3/4" = 1'-0"



10 S4.1 TYP JAMB REINF AT LINE B
1" = 1'-0"



6A S4.1 TYP PILASTER AT CORNERS
3/4" = 1'-0"



9 S4.1 WALL END AT LINE "2-B"
1" = 1'-0"

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN. 64337-110 APPL. 03-122682

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architecture planning interiors

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ARCHITECT

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JOB NO. 122017

Drawn by OCP
Checked by OC

Revisions

No.	Date	Description
△		

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL AQUATIC CENTER MODERNIZATION
STORAGE BLDG

902 NORTH 3RD STREET
BURBANK, CA 91502

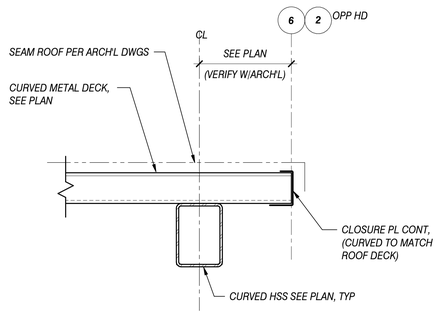
Sheet Title:

SECTIONS AND DETAILS

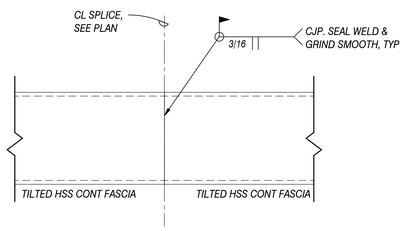
Job No. 2986.0000

Date. 06-28-2023

S4.1

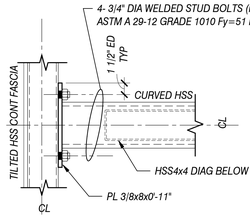


3 / S4.2 1 1/2" = 1'-0"

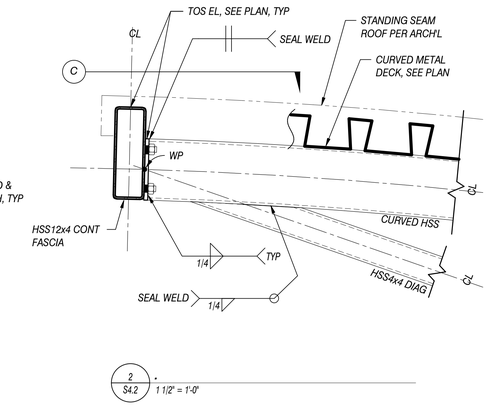


SIDE VIEW

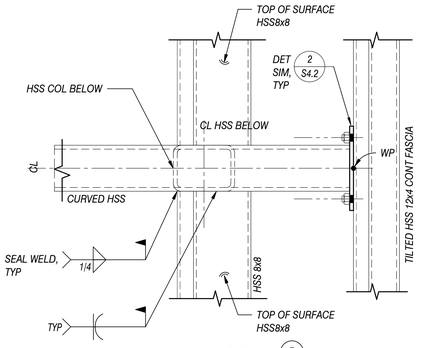
4 / S4.2 HSS FASCIA SPLICE
1 1/2" = 1'-0"



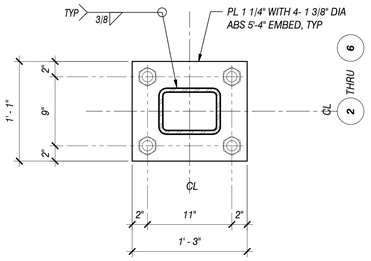
PLAN VIEW AT TOS (C)



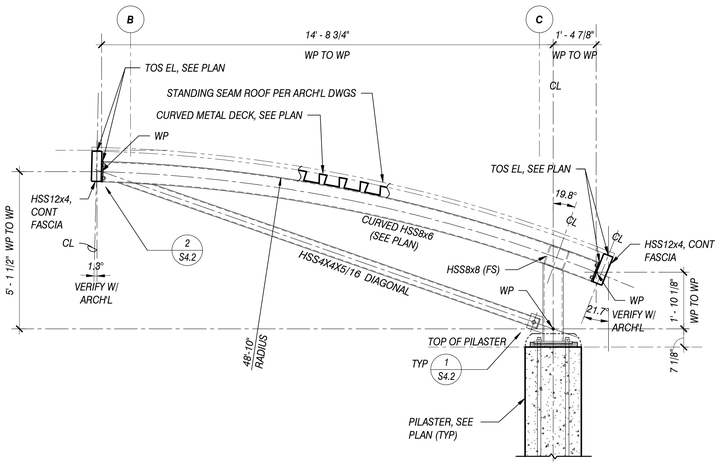
2 / S4.2 1 1/2" = 1'-0"



PLAN VIEW (B)



TYP BASE PLATE PLAN VIEW (A)



FR1 / S4.2 TYP CANOPY FRAME ELEVATION
1/2" = 1'-0"

1 / S4.2 1 1/2" = 1'-0"

5 / S4.2 CONC BEAM DETAIL
1 1/2" = 1'-0"

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BURBANK HIGH SCHOOL AQUATIC CENTER MODERNIZATION STORAGE BLDG

902 NORTH 3RD STREET
BURBANK, CA 91502

Sheet Title:

CANOPY SECTIONS AND DETAILS

Job No. 2986.0000

Date. 06-28-2023

S4.2

SPECIFICATIONS

PART 1 : GENERAL REQUIREMENTS

1. THE CONTRACTOR FOR THIS WORK IS REQUIRED TO READ THE ENTIRE SPECIFICATION AND REVIEW DRAWINGS FOR ALL OTHER TRADES.
2. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID TO DETERMINE CONDITIONS AFFECTING THE WORK. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
3. PROVIDE ALL MATERIAL AND EQUIPMENT TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT AND APPLIANCES.
4. THE CONTRACTOR SHALL PROVIDE ALL LABORS, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS.
5. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, AND UNDERWRITER'S LABORATORIES LISTED (UL). PRODUCTS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND MANUFACTURER.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION, SERVICING, MAINTENANCE AND REPAIR.
7. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY LIGHT AND POWER FOR CONSTRUCTION.
9. ALL WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER
10. ALL WORK SHALL CONFORM TO NEC 2020 EDITION, CEC 2022, THE STATE'S, COUNTY'S, CITY'S AND LOCAL CODES AND ORDINANCES; SAFETY AND HEALTH CODES; NFPA CODES; ENERGY CODES-2022; AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS.
11. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED AND RELATED TO THE WORK.
12. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, EQUIPMENT AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AS A WHOLE BY THE OWNER. SHOULD ANY DEFECTS OCCUR DURING THIS PERIOD, THE CONTRACTOR SHALL PROMPTLY REPAIR OR REPLACE DEFECTIVE ITEMS AT NO ADDITIONAL COST TO THE OWNER. REFER TO ARCHITECTURAL/GENERAL SPECIFICATIONS FOR FURTHER REQUIREMENTS.
13. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZES, LOCATION OF EQUIPMENT, AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE ADJUSTED AS DICTATED BY EXISTING CONDITIONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS JUNCTIION BOXES AND PULLBOXES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE. CONDUIT RUNS ARE INDICATED DIAGRAMMATICALLY, DETERMINE EXACT LOCATION IN FIELD.
   IMPORTANT: DO NOT ALTER THE INTENT OF THE DESIGN.
14. NOTHING DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THE APPLICABLE CODES AND REGULATIONS.
15. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND/OR SITE SUPERVISOR FOR CLARIFICATION OR CORRECTION PRIOR INSTALLATION. "NO EXCEPTIONS".
16. THE WORD "VERIFY LOCATION" ABBREVIATED AS "VL" SHALL MEAN TO COORDINATE THE EXACT LOCATION OF THE DEVICE AND/OR EQUIPMENT BEING REFERRED TO WITH THE OWNER'S REPRESENTATIVE AND TO PROVIDE NECESSARY ADJUSTMENTS.
17. THE WORD "WIRING" MEANS CONDUITS, FITTINGS, WIRES, CABLES, WIRING DEVICES, OUTLET BOXES, ALL CONSTRUCTION MATERIAL AND LABOR AS NEEDED INCLUDING ALL CONNECTIONS AS REQUIRED AND APPLICABLE.
18. ARCHITECTURAL SPECIFICATIONS, GENERAL, SPECIAL AND SUPPLEMENTAL CONDITIONS SHALL FORM A PART OF THIS CONSTRUCTION DOCUMENT.
19. SUBMIT SHOP DRAWING OF THE ELECTRICAL EQUIPMENT SPECIFIED HEREIN TO ARCHITECT FOR REVIEW AND APPROVAL.
20. MANUALLY OPERATED ELECTRICAL EQUIPMENT SHALL REQUIRE 36"(UON) CLEAR AND UNOBSTRUCTED SPACE IN FRONT OF THE EQUIPMENT.
21. PROVIDE 1/8" POLYPROPYLENE PULL ROPE IN ALL EMPTY CONDUITS. IDENTIFY CONDUITS AT EACH END WITH TAGS IDENTIFYING OTHER END OF CONDUIT.
22. PROVIDE AN AS-BUILT DRAWING SET FOR ALL ELECTRICAL WORK INSTALLED IN THE PROJECT. AS-BUILT SET MUST INCLUDE ALL DEVIATIONS FROM THE ORIGINAL CONTRACT DRAWINGS, INFORMATION REGARDING ALL CHANGE ORDERS, DIMENSIONED LOCATIONS OF ALL SPARE CONDUIT STUB-OUTS, ALL PANELS CIRCUITS DIRECTORY AGAINST ACTUAL CIRCUIT ASSIGNMENT, AND DIAG. OF ALL EQUIPMENT CONNECTIONS. AT THE CONCLUSION OF THE WORK, DELIVER AS-BUILT DRAWINGS TO THE OWNER'S REPRESENTATIVE.
23. LOCATIONS SHOWN ON ARCHITECTURAL CEILING PLANS OR ON WALL ELEVATIONS SHALL TAKE PRECEDENCE OVER ELECTRICAL PLAN LOCATIONS.
24. IN CASES WHERE THE MANUFACTURER OF THE EQUIPMENT AND MATERIAL USED IN THIS PROJECT FURNISHED DIRECTIONS COVERING POINTS NOT SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED, SUCH DIRECTIONS SHALL BE FOLLOWED WITHOUT ADDITIONAL COST TO THE OWNER.
25. BEFORE FINAL ACCEPTANCE, ELECTRICAL EQUIPMENT, INCLUDING LIGHTING FIXTURES SHALL BE CLEANED AND TO BE FREE FROM DIRT, GREASE, AND FINGERMARKS, ALL TO THE SATISFACTION OF THE ARCHITECT.
26. TEST ALL PARTS OF THE ELECTRICAL INSTALLATION FOR PROPER PHASING, CONTINUITY, SHORTS, AND GROUNDS PRIOR TO PLACING IN SERVICE. MAKE RECORDS OF ALL TESTS AND DELIVER TO THE ARCHITECT FOR VERIFICATION.
27. PROVIDE SEISMIC RESTRAINTS FOR EQUIPMENT AS NEEDED. ALL SEISMIC RESTRAINTS MUST BE CERTIFIED BY A REGISTERED STRUCTURAL ENGINEER.
28. ALL NEW ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED.
29. CONTRACTOR SHALL MAKE ALL SCHEDULING AND ARRANGEMENT WITH THE 3'RD PARTY INSPECTION AND COMMISSIONING OF LIGHTING AND POWER SYSTEMS IN COMPLIANCE WITH CALIFORNIA TITLE 24 ENERGY ORDINANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INCURRED COSTS.
30. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED FOR THE BASE BID AND INSTALLATION. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE REJECTED AND REMOVED AT THE CONTRACTOR'S EXPENSE.
31. ELECTRICAL EQUIPMENT FOR THIS PROJECT SHALL BE ORDERED BASED ON APPROVED AND PERMITTED SET OF CONSTRUCTION DOCUMENT AND APPROVED SHOP DRAWINGS. DO NOT PRE-ORDER ANY EQUIPMENT UNLESS APPROVED BY THE ARCHITECT.
32. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF AND WEATHER RESISTANT (NEC-406.8).
33. MISSING MOUNTING HEIGHTS FOR ALL ELECTRICAL DEVICES MUST BE OBTAINED FROM ARCHITECT PRIOR ROUGH-INS.
34. ELECTRICAL EQUIPMENT AND DEVICES REQUIRING MAINTENANCE AND TESTING INSTALLED IN THE CEILING SPACES SHALL BE ACCESSIBLE. AREAS WITH HARD CEILING SHALL BE PROVIDED WITH AN ACCESS PANEL, CCORDINATE LOCATIONS WITH ARCHITECT PRIOR ROUGH-INS.
35. PER NEC SECTION 110-3(B) LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING. TORQUE SCREWDRIVER AND WRENCHES SHALL BE USED TO PERFORM TERMINATION TIGHTENING. TORQUE FOOT-POUND VALUES SHALL BE PER MANUFACTURER'S PUBLISHED DATA.
36. ALL MULTI-BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

PART 2 : PRODUCTS AND INSTALLATION

1. CONDUITS:

A. INTERMEDIATE METALLIC CONDUIT(IMC):PROVIDE LIGHT WEIGHT STEEL THAT IS HOT-DIPPED GALVANIZED.

B. ELECTRIC METALLIC TUBING: PROVIDE TUBING OF HIGH GRADE STEEL WITH EXTERIOR PROTECTIVE COATING OF ZINC.

C. RIGID ALUMINUM CONDUIT: PROVIDE LIGHT WEIGHT CONDUIT WITH THREADED CONNECTORS AND FITTINGS.

D. FLEXIBLE STEEL CONDUIT: PROVIDE LIGHT WEIGHT STEEL GALVANIZED CONDUIT.

E. FLEXIBLE ALUMINUM CONDUIT: PROVIDE LIGHT WEIGHT FLEXIBLE ALUMINUM CONDUIT.

F. FLEXIBLE CONDUIT CONNECTORS AND FITTINGS: PROVIDE DIE-CAST FITTINGS OF THE TYPE THAT SCREWS INSIDE OF THE CONDUIT.

G. FLEXIBLE LIQUIDTIGHT STEEL CONDUIT AND FITTINGS: SHALL BE LIGHT WEIGHT STEEL GALVANIZED WITH AN EXTRUDED POLYVINYL CHLORIDE COVER.

H. PLASTIC CONDUIT AND FITTINGS: PROVIDE HEAVY WALL SCHEDULE 40.

I. SLEEVES: SHALL BE COATED GALVANIZED STEEL PIPE.

J. SEALANT: FIRE RATED EQUAL TO WALL OR CEILING PENETRATED.

K. USE RIGID STEEL CONDUIT WHERE DIRECTLY EXPOSED TO WEATHER AND SUBJECT TO ABNORMAL CONDITIONS.

L. USE "EMT" AND ALUMINUM CONDUITS FOR ALL SIZES UP TO 2 INCHES IN DRY LOCATION.

M. FLEXIBLE STEEL CONDUIT: USE FOR SHORT MOTOR CONNECTIONS AND CONNECTIONS TO RECESS MOUNTED FIXTURES AND FOR GENERAL LIGHTING, POWER AND COMMUNICATIONS WIRING. FLEXIBLE CONDUIT SHALL NOT BE USED FOR CONDUIT FEEDER, STUB-UP, AND STUB-OUTS.

N. ALUMINUM FLEXIBLE CONDUIT: MAY BE USED IN DRY WALLS FOR GENERAL LIGHTING AND POWER BRANCH CIRCUITING ONLY.

O. USE INSULATED BUSHINGS AND LOCKNUTS ON ALL CONDUITS WHERE ENTERING PULL AND JUNCTION BOXES, OUTLET BOXES AND CABINETS.

P. TAG ALL EMPTY CONDUITS AT EACH ACCESSIBLE END WITH A PERMANENT TAG IDENTIFYING THE PURPOSE OF THE CONDUIT AND THE LOCATION OF THE OTHER END.

Q. IN SUSPENDED CEILING DO NOT SECURE CONDUIT TO THE CEILING SUPPORT WIRES.

R. GENERALLY, ALL CONDUIT SHALL BE CONCEALED EXCEPT FOR UNFINISHED AREAS, SUCH AS EQUIPMENT ROOMS. EXPOSED CONDUIT SHALL BE ALLOWED ONLY AS NOTED ON PLAN AND AS APPROVED BY THE OWNER'S CONSTRUCTION MANAGER. PAINTING OF CONDUITS WILL BE BY GENERAL CONTRACTOR.

S. ALL PULL WIRES ARE TO BE LABELED FOR PURPOSE DESIGNATED.

T. ALL CONDUIT PENETRATIONS THROUGH BUILDING WALLS, FLOORS, SURFACES, AS WELL AS FLOOR CORE DRILLING MUST BE FULLY COORDINATED WITH BUILDING'S ENGEINEER IN ADVANCE. PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS MUST BE PROVIDED WITH FIRE RATED MATERIALS TO COMPLY WITH BUILDING STRUCTURAL RATING.

U. ALL WIRING MUST BE INSTALLED IN CONDUIT. WIRING IN CEILING PLENUM MUST CONFORM TO THE APPLICABLE CODES.

V. ALL ROOF AND EXTERIOR WALL PENETRATIONS MUIST BE FULLY COORDINATED WITH ARCHITECT AND MUST BE WEATHERPROOFED.

W. PVC CONDUIT SHALL NOT BE ALLOWED FOR ABOVE GROUND WIRING (UON).

X. ANCHORS NOT CAST INTO CONCRETE SHALL BE EXPANSION SHIELD TYPE, PHILLIPS "RED HEAD", HILTI, OR EQUAL.

Y. EXPANSION COUPLINGS SHALL BE OZ TYPE "AX" OR "DX" OR EQUAL WITH BONDING JUMPER.

2. CONDUCTORS :

A. SINGLE CONDUCTOR COPPER WIRE WITH 600 VOLTS INSULATION SHALL BE USED FOR GENERAL WIRING IN CONDUIT UNLESS OTHERWISE SHOWN.

B. CONDUCTORS 10-AWG AND LARGER SHALL BE STRANDED TYPE. CONDUCTORS 12-AWG AND SMALLER SHALL BE SOLID WITH COLOR CODED INSULATION.

C. PROVIDE CONDUCTORS TYPE THWN-2 FOR DRY AND WET LOCATIONS AND THHN FOR DRY LOCATIONS ONLY.

D. NO WIRE AMPACITY REDUCTION SHALL BE ALLOWED ON THE FEEDERS AND BRANCH CIRCUIT WIRING INCLUDING NEUTRALS UNLESS APPROVED BY THE ENGINEER.

E. WIRES AND CONDUITS SIZES INDICATED THROUGHOUT THE DRAWINGS ARE BASED ON COPPER CONDUCTORS, NO ALUMINUM WIRES ALLOWED.

F, 'MC" CABLES SHALL BE MANUFACTURED TO UL STANDARDS. CABLES SHALL BE CONSTRUCTED OF INTERLOCKED METAL ARMOR AND COPPER CONDUCTORS.

G. ALL WIRES SHALL BE COPPER AND IN CONDUIT (UON).

H. INSTALLTION OF THE "MC" CABLES SHALL BE IN FULL COMPLIANCE WITH "NEC" REQUIREMENTS.

I. BENDING RADIUS SHALL BE 7 TIMES (MIN.) THE EXTERNAL DIAMETER OF THE CABLE.

J. SUPPORT CABLES WITHIN 12" OF BOXES AND EVERY 6' INTERVAL.

K. "MC" CABLES SHALL BE TERMINATED ON THE OUTLET BOXES VIA UL LISTED CONNECTOR.

3. BOXES :

A. OUTLET AND JUNCTION BOXES SHALL BE GALVANIZED PRESSED STEEL WITH PLUGGED HOLES. ALL BOXES SHALL BE OF NEC CODE SIZE FOR THE NUMBER OF WIRES OR CONDUITS PASSING THROUGH OR TERMINATING THEREIN, BUT IN NO CASE SHALL ANY BOX BE LESS THAN 4 INCHES SQUARE BY 2-1/8 INCHES DEEP. NO PLASTIC BOXES SHALL BE ALLOWED.

B. LABEL THE COVER OF EACH ACCESSIBLE JUNCTION BOX WITH PANEL AND CIRCUIT DESIGNATION FUNCTION.

C. DO NOT EXCEED THE EQUIVALENT OF THREE 90 DEG. BENDS BETWEEN GENERAL WIRING PULL AND JUNCTION BOXES.

D. DO NOT USE SECTIONALIZED BOXES EXCEPT WHERE INDICATED.

E. THE DRAWINGS DO NOT NECESSARILY SHOW EVERY PULL BOXES REQUIRED. PROVIDE BOXES AS REQUIRED.

F. LIGHT FIXTURE OUTLET BOXES SHALL BE EQUIPPED WITH FIXTURE-SUPPORTING DEVICE, AS REQUIRED BY THE UNIT TO BE INSTALLED.

G. EXPOSE BOXES IN MECHANICAL AREAS OR EXPOSED TO WEATHER SHALL BE CAST METAL WEATHERPROOF BOXES WITH GROUNDING TERMINAL, THREADED HUBS ANG GASKETS.

H. TELEPHONE AND DATA OUTLETS SHALL BE A MINIMUM 4-11/15 INCHES SQUARE BY 2-1//8" INCHES. DEEP.

I. CONDULETS SHALL BE CAST METAL WITH THREADED HUBS TYPE "FS" OR "FD" SERIES, MANUFACTURED BY CROUSE-HINDS, APPLETON OR EQUAL.

J. PROVIDE METAL BOXES FOR FIRE ALARM SYSTEM.

4. WIRING DEVICES :

A. DUPLEX RECEPTACLES SHALL BE 20A, 120V UNLESS OTHERWISE INDICATED. COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

B. PROVIDE SPECIFICATION GRADE, HEAVY DUTY, AC RATED LIGHT SWITCHES, 20A. AT 120V (AND 277V WHERE APPLICABLE), SINGLE POLE AND 3-WAY AS SHOWN ON THE DRAWINGS, COLOR SHALL BE WHITE OR AS SELECTED BY THE OWNER/ARCHITECT (COLOR SHALL BE GREY IN UNFINISHED AREAS).

C. PROVIDE COVER PLATE FOR ALL WIRING DEVICES. COVER PLATE IN THE FINISHED AREAS SHALL BE PLASTIC (UON), COLOR AS PER ARCHITECT SELECTION.

D. WIRING DEVICES SHALL BE OF THEHEAVY DUTY SPECIFICATION GRADE TYPES AND THE PRODUCTS OF HUBBELL, PASS & SEYMOUR OR LEVITON.

E. WEATHERPROOF RECPTACLES TO BE UL LISTED FOR USE IN "WET LOCATION", WITH CAST METAL BOX WITH GASKETED, HINGED, LOCKABLE AND WEATHERPROOF EXTRA-DUTY WHILE IN USE, UV RESISTANT/STABLIZED COVERPLATE.

F GROUND-FAULT CIRCUIT INTERRUPTER RECPTACLES TO BE UL 943, DUPLEX TYPE FOR MOUNTING IN STANDARD OUTLET BOX.

G. ELECTRICAL CONTROL SWITCHES AND RECEPTACLES USED BY OCCUPANT TO BE LOCATED NO MORE THAN 48" MEASURED TO TOP OF THE DEVICE AND NO LESS THAN 15" MEASURED TO THE BOTTOM OF THE DEVICE TO THE FINISHED FLOOR OR PLATFORM.

5. LIGHTING :

A. LIGHTING FIXTURES SHALL BE COMPLETE WITH ALL GLASSWARE, FITTERS, CANOPIES, SOCKETS, MOUNTING BRACKETS, REFLECTORS, LAMPS, LED DRVERS AND ALL ACCESSORIES AS REQUIRED.

B. FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURER'S CATALOG NUMBERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO STUDY THE SCHEDULE AND CAREFULLY REVIEW ELECTRICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS TO DETERMINE THE CORRECT CEILING CONFIGURATION AND FIXTURES TO BE FURNISHED SO THAT BOTH CEILING SYSTEM AND LIGHT FIXTURE CONSTRUCTION MATCH.

C. COORDINATE EXACT LOCATION OF THE LIGHTING FIXTURES WITH THE ARCHITECTURAL DRAWINGS.

D. ALL LIGHTING FIXTURES WHETHER OR NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.

E. INSTALL LIGHTING FIXTURES IN COMPLIANCE WITH APPLICABLE REGULATIONS PERTAINING TO SEISMIC RESTRAINTS.

F. PROVIDE APPLICABLE FIRE RATED DRYWALL BOXES OVER RECESSED FIXTURES IN FIRE RATED CEILINGS AS REQUIRED BY CODES. FIELD COORDINATE AS REQUIRED TO AVOID CONFLICTS.

G. REMOVE ALL DIRT, OIL OR GREASE FROM LIGHT FIXTURES. CLEAN ALL GLASS, LENSES, ETC. AND POLISH FIXTURES AND TRIM.

H. SELF-CONTAINED EMERGENCY LIGHTING FIXTURES SHALL BE SWITCHABLE UNDER NORMAL OPERATING CONDITIONS. RUN AN EXTRA HOT WIRE FOR EMERGENCY OPERATION.

I. SUPPORT LIGHT FIXTURES SEPARATELY FROM THE CEILING SYSTEM WHERE CEILING MEMBRANES ARE NOT STRUCTURALLY CAPABLE OF SUPPORTING LIGHT FIXTURES, OR WHERE REQUIRED BY THE CODES.

6. DISTRUBUTION

A. PROVIDE BRANCH CIRCUIT BREAKERS AS SPECIFIED ON PLANS. CIRCUIT BREAKES FOR HVAC EQUIPMENT SHALL BE HACR RATED CIRCUIT BREAKERS.

B. PROVIDE NEATLY TYPED CIRCUIT INDEX CARDS, CLEARLY AND CORRECTLY IDENTIFYING ALL CIRCUITS, MOUNTED IN THE CARD HOLDERS. ALL PANEL DIRECTORY CARDS SHALL BE UPDATED AS-PER AS BUILT CONDITIONS.

C. CONTROL DEVICES SHALL NOT BE MOUNTED MORE THAN 6'-6" ABOVE THE FLOOR.

D. PANELBOARDS, EQUIPMENT AND CONTROL PANELS THAT ARE LIKELY TO REQUIRE ADJUSTMENT, EXAMINATION, AND SERVICING WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FAULT HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE VISIBLE TO THE QUALIFIED PERSONS BEFORE WORKING ON THE EQUIPMENT.

E. LIGHTING BRANCH CIRCUIT BREAKERS SERVING AREAS WITH NO LOCAL SWITCHING SHALL BE PROVIDED WITH UL LISTED (SWD) RATED CIRCUIT BREAKERS SUITABLE FOR LIGHTING SWITCHING CIRCUITS.

F. PROVIDE SAFETY DISCONNECT SWITCHES WITH RATING AS SHOWN ON THE DRAWINGS. SWITCHES SHALL BE HEAVY DUTY TYPE AND FUSIBLE WITH RK1 FUSE (UON). SWITCHES SHALL BE QUICK MAKE-QUICK-BREAK TYPE,

8. MISCELLANEOUS :

A. PROVIDE GROUNDING SYSTEM PER NEC-250 AND AS INDICATED ON PLANS.

B. ALL METAL AND NON-CURRENT CARRYING PART OF THE ELECTRICAL EQUIPMENT SHALL BE BONDED TO GROUND PER NEC CODES ARTICLE 250.

C. THE FOLLOWING MINIMUM MOUNTING AND INSTALLATION GUIDELINES SHALL BE MET, UNLESS SPECIFIED OTHERWISE:
i. THE CONTRACTOR SHALL PROVIDE EQUIPMENT ANCHORAGE DETAILS, COORDINATED WITH EQUIPMENT MOUNTING PROVISION, PREPARED AND STAMPED BY A LICENSED CIVIL ENGINEER IN THE STATE. MOUNTING RECOMMENDATIONS SHALL BE PROVIDED BY THE MANUFACTURER BASED UPON THE ABOVE CRITERIA TO VERIFY THE SEISMIC DESIGN OF THE EQUIPMENT.
b. THE EQUPMENT MANUFACTURER SHALL DOCUMENT THE REQUIREMENTS NECESSARY FOR PROPER SEISMIC MOUNTING OF THE EQUIPMENT.

MEP COMPONENT ANCHORAGE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

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

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK AND ELECTRICAL SYSTEM BRACING:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 15.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVDE INSTALLATION GUIDE (E.G. OSHPD, OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E)

MP ☐ MD ☐ PP ☐ E ☐ OPTION 1: DETAILED ON THE APPROVDED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP ☐ MD ☐ PP ☐ E ☒ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0052-13

DSA REQUIRED NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).
2. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MAKE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338,PART 1, TITLE 24, CCR.
4. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRE3D RESTS AND INSPECTIONS FOR THE PROJECT.
6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITAION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TILE 24, CCR. SOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVEERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART1, TITLE 24, CCR).
7. GRADING PLANS, DRAINAGE IMPROVEDMANTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

ABBREVIATIONS

A	AMPERE	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
CB	CIRCUIT BREAKER	NA	NOT APPLICABLE
CKT	CIRCUIT	NTS	NOT TO SCALE
CL	CURRENT LIMITING	NIC	NOT IN CONTRACT
CO	CONDUIT ONLY	NL	NIGHT LIGHT
DD	DUCT DETECTOR	P	POLE
DE	DUAL ELEMENT	P/L	PROPERTY LINE
E	EXISTING	REQD	REQUIRED
EA	EACH	REQMNT	REQUIREMENT
EC	ELECTRICAL CONTRACTOR	RGC	RIGID GALVANIZED CONDUIT
EGC	EQUIPMENT GROUNDING CONDUCTOR	SCA	SHORT CIRCUIT AMPERE
EQ	EQUAL	SIM	SIMILAR
EQPT	EQUIPTMENT	SLD	SINGLE LINE DIAGRAM
EWH	ELECTRIC WATER HEATER	SW	SWITCH
F	FUSE	SWBRD	SWITCHBOARD
FA	FIRE ALARM	T/F	TRANSFORMER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TBB	TELEPHONE BACKBOARD
GND	GROUND	TYP	TYPICAL
HP	HORSEPOWER	U/G	UNDERGROUND
	INTERRUPTING CAPACITY (RMS SYM.)	UL	UNDERWRITER'S LABORTORIES
IG	ISOLATED GROUND	UON	UNLESS OTHERWISE NOTED
LCP	LIGHTING CONTROL PANEL	V	VOLT
LL	LANDLORD	VA	VOLT AMPERE
LT	LIGHT	VL	VERIFY LOCATION
MFR	MANUFACTURER	W	WATT
		WP	WEATHERPROOF

CHANGES TO EXISTING

1. BEFORE SUBMITTING THE BID PROPOSAL, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH THE JOB CONDITIONS AND VERIFY LOCATION OF EXISTING EQUIPMENT.
2. ALL WORK SHALL BE PERFORMED TO CHANGE EXISTING ELECTRICAL INSTALLATION AS INDICATED OR AS REQUIRED TO PROVIDE NEW WORK.
3. INFORMATION GIVEN ON THE DRAWINGS REGARDING EXISTING INSTALLATION HAS BEEN OBTAINED FROM THE BEST SOURCES AVAILABLE, HOWEVER IT CANNOT BE GUARANTEED IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION BEFORE PROCEEDING WITH THE NEW WORK THAT MAY BE AFFECTED UPON. INCLUDE, AS A PART OF THE CONTRACT, ALL WORK THAT ARE REQUIRED TO PRODUCE INDICATED RESULT.
4. EXCEPT AS MAY BE SPECIFICALLY INDICATED OTHERWISE, ALL ELECTRICAL MATERIALS AND EQUIPMENT REMOVED FROM EXISTING INSTALLATION IN THE COURSE OF PERFORMING THE INDICATED WORK AND NOT SHOWN TO BE REUSED SHALL BE TREATED AS FOLLOWS:
   A. ALL CONDUITS, CONDUCTORS, OUTLET BOXES AND FITTINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
   B. ALL OTHER REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER AND DISPOSED OF AS DIRECTED BY THE OWNER.
5. CLEAN ALL REMOVED ITEMS THAT ARE TO BE REUSED. WHERE A CHOICE IS POSSIBLE SELECT THE BEST OF THE REMOVED ITEMS FOR REUSE.
6. BEFORE ANY DEMOLITION WORK PROCEEDS IN ANY AREA, SURVEY AREA AND DETERMINE SOURCES OF ALL ELECTRICAL FEEDERS, CIRCUITS ETC., FOUND IN THIS AREA. DISCONNECT AND/ OR RE-ROUTE ALL HOT WIRES WITHIN THE AREA SO DEMOLITION MAY PROCEED WITHOUT ANY HAZARD FROM ELECTRICAL SHOCK.
7. MAKE ALL NECESSARY ALTERATIONS TO COORDINATE AND CONNECT EXISTING WITH NEW ELECTRICAL WORK TO THE END THAT, WHEN WORK IS COMPLETE, ENTIRE ELECTRICAL INSTALLATION, EXISTING AND NEW, SHALL BE COMPLETE AND IN SATISFACTORY OPERATING CONDITION. DRAWINGS INDICATE WORK WHICH IS TO BE IN PLACE AT COMPLETION OF INSTALLATION. EXISTING WORK NOT INDICATED TO BE CHANGED OR ABANDONED OR NOT SHOWN IS TO REMAIN IN USE. CONDUIT AND WIRING ARE EXISTING TO THEIR RESPECTIVE SOURCES, ALTHOUGH NOT INDICATED ON DRAWINGS. THIS MAY REQUIRE TEMPORARY REMOVAL OR REROUTING OF CONDUITS AND REPLACING EXISTING WIRING WITH NEW DURING CONSTRUCTION WORK. INCLUDE UNDER THIS SECTION ALL WORK REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING EQUIPMENT.
8. CAREFULLY PROTECT ALL FINISHED WALLS, TRIM, FLOORS, EQUIPMENT, SUPPLIES AND MATERIALS, AND USE TARPAULINS WHEREVER POSSIBLE. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLEST AREA POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. OUTLETS SHALL BE RESET WHERE REQUIRED DUE TO CONSTRUCTION WORK. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
9. WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND NOT INTERFERE WITH ITS USE. ANY WORK TO BE PERFORMED ON EXISTING BUILDING MUST BE PLANNED IN ADVANCE.
10. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN SUCH A MANNER AS NOT TO INTERFERE IN ANY WAY WITH THE SATISFACTORY PERFORMANCE OF THE ELECTRICAL SYSTEMS IN ANY OF THE OTHER PORTIONS OF THE SITE WHILE IN USE. POWER AND LIGHT SERVICES, SUB-FEEDERS, AS WELL AS ANY AUXILIARY SYSTEM, SHALL NOT BE DISCONNECTED.
11. BEFORE PERFORMING ANY SAW CUTTING AND/OR ANY EXCAVATION ON EXISTING SURFACES OBTAIN A COPY OF THE ELECTRICAL AS-BUILT TO ASCERTAIN INFO. OF CONCEALED CONDUIT RUNS. IF AS-BUILT ELECTRICAL DRAWINGS ARE NOT AVAILABLE, CONTRACTOR SHOULD ENGAGE SERVICES OF SPECIALIZED CONTRACTORS TO LOCATE CONCEALED CONDUIT RUNS VIA X-RAY AND/OR RADAR CONDUITS LOCATOR.
12. WHERE APPLICABLE, CONTRACTOR SHALL CONTACT DIG-ALERT ORGANIZATION PRIOR TO INSTALLATION OF ANY UNDERGROUND WORK FOR LOCATING OF THE UNDERGROUND UTILITIES.

SYMBOLS

FLOOR	WALL	CEILING	DESCRIPTION
	○⊣	○	LIGHT FIXTURE AS SPECIFIED, SUBSCRIPTS WHEN INDICATED DENOTE BRCH CKT/SW LEG
	▭	▭	LIGHT FIXTURE AS SPECIFIED
		●	LIGHT ON EMERGENCY POWER AS SPECIFIED
	S		SINGLE POLE TOGGLE SWITCH @+48"(UON) SUBSCRIPTS INDICATE THE FOLLOWING: a-OUTLET 'a' CONTROLLED 3-THREE WAY
⊘	⊖	⊘	DUPLEX RECEPTACLES
⊘	⊖		SPECIAL RECEPTACLE, TYPE AS NOTED ON PLANS
Ⓙ	Ⓙ	Ⓙ	JUNCTION BOX, SIZE AS NOTED AND PER CODE
	□		ELECTRICAL EQUIPMENT AS NOTED ON PLAN
	□		DISCONNECT SWITCH:30A/1-POLE, FUSE AS NOTED
	⊕		DOUBLE DUPLEX RECEPTACLES

——	CONDUIT CONCEALED IN CEILING OR WALL, 1/2" CONDUIT, 2#12 WIRES + 1#12G (UON)
—///—	CROSS LINES DENOTE NO. OF #12 WIRES (UON), GROUND CONDUCTOR NOT SHOWN BUT MUST BE INCLUDED SIZE CONDUIT PER CODE AND AS NOTED ON PLANS.
LA-1,3 ////→	HOMERUN TO PANEL "LA" CIRCUITS 1 & 3 (2 SEP. NEUTRALS) 4#12 + 1 #12 GND. SIZE CONDUIT PER CODE AND AS NOTED ON PLANS.
— — —	CONDUIT CONCEALED IN FLOOR SLAB OR UNDERGROUND
- - - - -	CONDUIT EXPOSED
[——	CONDUIT STUB WITH CAP, SIZE AS NOTED
‖——	GROUND, PER CODE AND AS SPECIFIED
150A/3	CIRCUIT BREAKER, 150A, 3-POLE
Ⓜ	UTILITY METERING
▬ Ⓐ	SURFACE MOUNTED PANELBOARD: PANEL "A"
▬	FLUSH MOUNTED PANELBOARD
▨	SWITCHBOARD

NOTE: THIS IS A GENERAL LIST OF SYMBOLS, SOME ITEMS MAY NOT APPLY TO THIS PROJECT

ELECTRICAL GENERAL NOTES

1. PRIOR TO SUBMITTING BID PROPOSAL CONTRACTOR, SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH EXISTING CONDITIONS OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE DRAWINGS AND SPECIFICATIONS OF OTHER DISCIPLINES OF THE DESIGN TEAM FOR ADDITIONAL REQUIREMENTS OF THE ELECTRICAL WORK WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS CONSTRUCTION DOCUMENTS. NOTIFY CONSTRUCTION MANAGER OF ANY CONFLICT OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

2. ALL POWER SHUT DOWN MUST BE SCHEDULED WITH OWNER'S REPRESENTATIVE AND ARCHITECT IN ADVANCE. IN GENERAL POWER SHUT-DONW MUST BE KEPT AS MINIMUM AS POSSIBLE. CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL THE COST OF ALL NECESSARY OVERTIME FOR THE ELECTRICAL WORK.

FIRE ALARM NOTE

FIRE ALARM SYSTEM IS EXISTING. DSA APPROVAL # A 03-105549
DSA FINAL SUBMITTAL 06-05-2002

SCOPE OF WORK

ADDED NEW LIGHT FIXTURES CONTROLLED BY OCCUPANCY SWITCH, POWER FOR IROLL UP DOOR AND HEAT DETECTOR N NEW STORAGE ROOM BELOW BLEACHERS. PROVIDED POWER FOR HANDICAP LIFT.

DRAWING LIST

E0.01	GENERAL NOTES, SPECIFICATIONS, SYMBOLS, ABBREVIATIONS
E1.00	PARTIAL SINGLE LINE DIAGRAM, PANEL SCHEDULE, AND VOLTAGE DROP CALCULATIONS
E2.00	ELECTRICAL PLAN AND FIXTURE SCHEDULE
E3.00	FIRE ALARM NOTES AND DETAILS
E4.00	TITLE 24 ELECTRICAL DISTRIBUTION NRCC-ELC-E
E4.01	TITLE 24 INDOOR LIGHTING NRCC-LTI-E

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN. 64337-111 APPL. 03-123187

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Drawn by DT
Checked by DT

Revisions

No.	Date	Description

BURBANK UNIFIED
SCHOOL DISTRICT

BURBANK
HIGH SCHOOL
AQUATIC CENTER
STORAGE BUILDING

902 NORTH 3RD STREET
BURBANK, CA 91502

GENERAL NOTES, SPECIFICATION
SYMBOLS, ABBREVIATIONS

Job No.
2986.0100

E0.01

Date
04-14-2023

PANEL: (E) PANEL "PPLA" VOLTAGE: 208/120V 3 PHASE MAIN: 150 A/3 CB

LOCATION: ELEC ROOM BUS SIZE: 250 A 4 WIRE MOUNTING: SURFACE

	LOCATION	VA ØA	VA ØB	VA ØC	LCL	OUTLETS MISC	OUTLETS REC	OUTLETS LT	CB	CKT NO.		CKT NO.	CB	OUTLETS MISC	OUTLETS REC	OUTLETS LT	LCL	VA ØA	VA ØB	VA ØC	LOCATION
	(E) RECPT	540					3		20	1		2	20		2			1200			(E) RECPT
	(E) RECPT		1500				3		30	3		4	20		2				1200		(E) RECPT
	(E) RECPT			1500			2		30	5		6	20		2					1200	(E) RECPT
	(E) RECPT	540					3		20	7		8	15	1				510			EF-1
	(E) RECPT		900				5		20	9		10	15	1					510		EF-2
	(E) RECPT			540			3		20	11		12	20		1					180	(E) RECPT
	SPARE								20	13		14	20		1			500			(E) RECPT
	(E) LTS		480					8	20	15		16	20		1				500		(E) RECPT
	(E) LTS			600				10	20	17		18	20		1					500	(E) RECPT
	SPACE									19		20	20	2				162			(E) EF
	(E) CONTACTOR		100			1			20	21		22	20	1					1000		(E) EF
	SPARE								20	23		24	20	1						1000	(E) EF
	(E) LTS	500						10	20	25		26	100					5676			(E) PANEL PPLB
	(E) RECEPT		660				2		20	27		28							6600		
	(E)SOUND RACK			360			2		20	29		30	3							6600	
2 1	LIFT	1800				1			20	31		32	20	1				480			SCOREBOARD 1
2 1	STORAGE LTS		125					5	15	33		34									
2 1	ROLL UP DOOR			1080		1			15	35		36									
	SPACE									37		38									
										39		40									
										41		42									
	TOTAL	3380	3765	4080														8528	9810	9480	TOTAL

CONNECTED LOAD (W)= ØA: 11908 ØB: 13575 ØC: 13560

TOTAL CONNCTD. LOAD:	39043
LCL:	10705(LCL) = 10705
LCL @25%:	2676
TOTAL LOAD (VA):	41719
AMPS:	116 A

NOTES: PANEL SHALL BE PRODUCT OF EATON CO.
PROVIDE 10,000 AIC RATED BOLT-ONCIRCUIT BREAKERS.

1 PROVIDE NEW CIRCUIT BREAKER WITH LOCK-OUT.

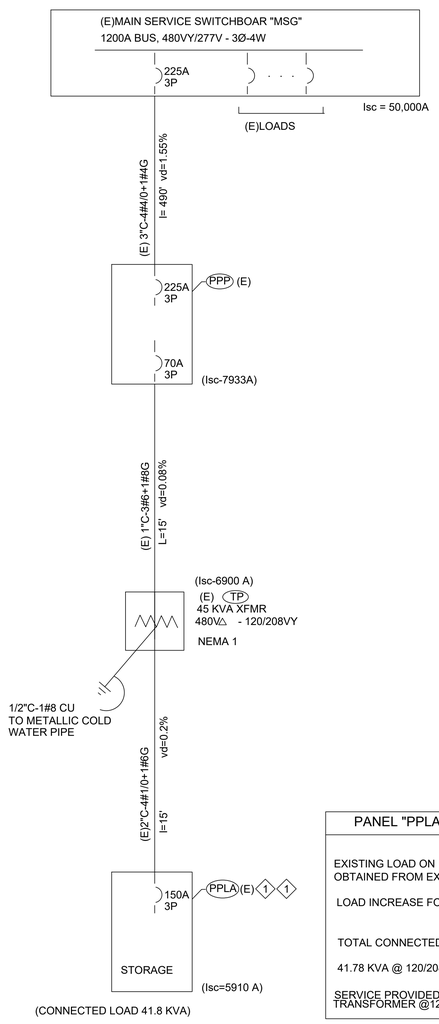
PANEL "PPLA" SCHEDULE 2 E1.00

NTS

CIRCUIT NUMBER	VOLTAGE	PHASE	LOAD (VA)	AMPS	DISTANCE (FT)	WIRE SIZE (AWG)	VOLTAGE DROP	%VOLTAGE DROP
PPLA-33	120	1	125	1	170	10	0.35	0.29
PPLA-35	120	1	1080	9	130	10	1.53	1.28
PPLA-31	120	1	1800	15	130	8	2.55	2.13

VOLTAGE DROP CALCULATIONS FOR NEW CIRCUITS 3 E1.00

NTS



PANEL "PPLA" LOAD CALCULATIONS	
EXISTING LOAD ON PANEL "PPLA" OBTAINED FROM EXISTING DRAWINGS	38.78 KVA
LOAD INCREASE FOR NEW WORK.	3.0KVA
TOTAL CONNECTED LOAD:	41.78 KVA
41.78 KVA @ 120/208VY	116 A
SERVICE PROVIDED FROM TRANSFORMER @120/208VY	125 A

GENERAL NOTES:

1 - ALL ITEMS ARE EXISTING (UON).

2 - INFORMATION REGARDING EXISTING CONDITIONS HAVE BEEN OBTAINED FROM THE AVAILABLE EXISTING DRAWINGS. CONTRACTOR MUST FIELD VERIFY ELECTRICAL CONDITIONS, PANEL AND CIRCUIT DESIGNATIONS PRIOR DOING ANY WORK. DISCREPANCIES, IF ANY, MUST BE REFLECTED ON THE AS-BUILT DRAWINGS.

REFERENCED NOTES:

1 PROVIDE NEW 15A, 1P CIRCUIT BREAKER IN SPACES #33 AND #35 TO MATCH EXISTING. UPDATE PANEL DIRECTORY WITH NEW LOAD. SEE PANEL SCHEDULE THIS SHEET FOR INF0.

2 PROVIDE NEW 20A, 1P CIRCUIT BREAKER IN SPACES #31 TO MATCH EXISTING. UPDATE PANEL DIRECTORY WITH NEW LOAD. SEE PANEL SCHEDULE THIS SHEET FOR INF0.

PARTIAL SINGLE LINE DIAGRAM 1 E1.00

SCALE: NTS

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Drawn by DT

Checked by DT

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STORAGE BUILDING

902 NORTH 3RD STREET
BURBANK, CA 91502

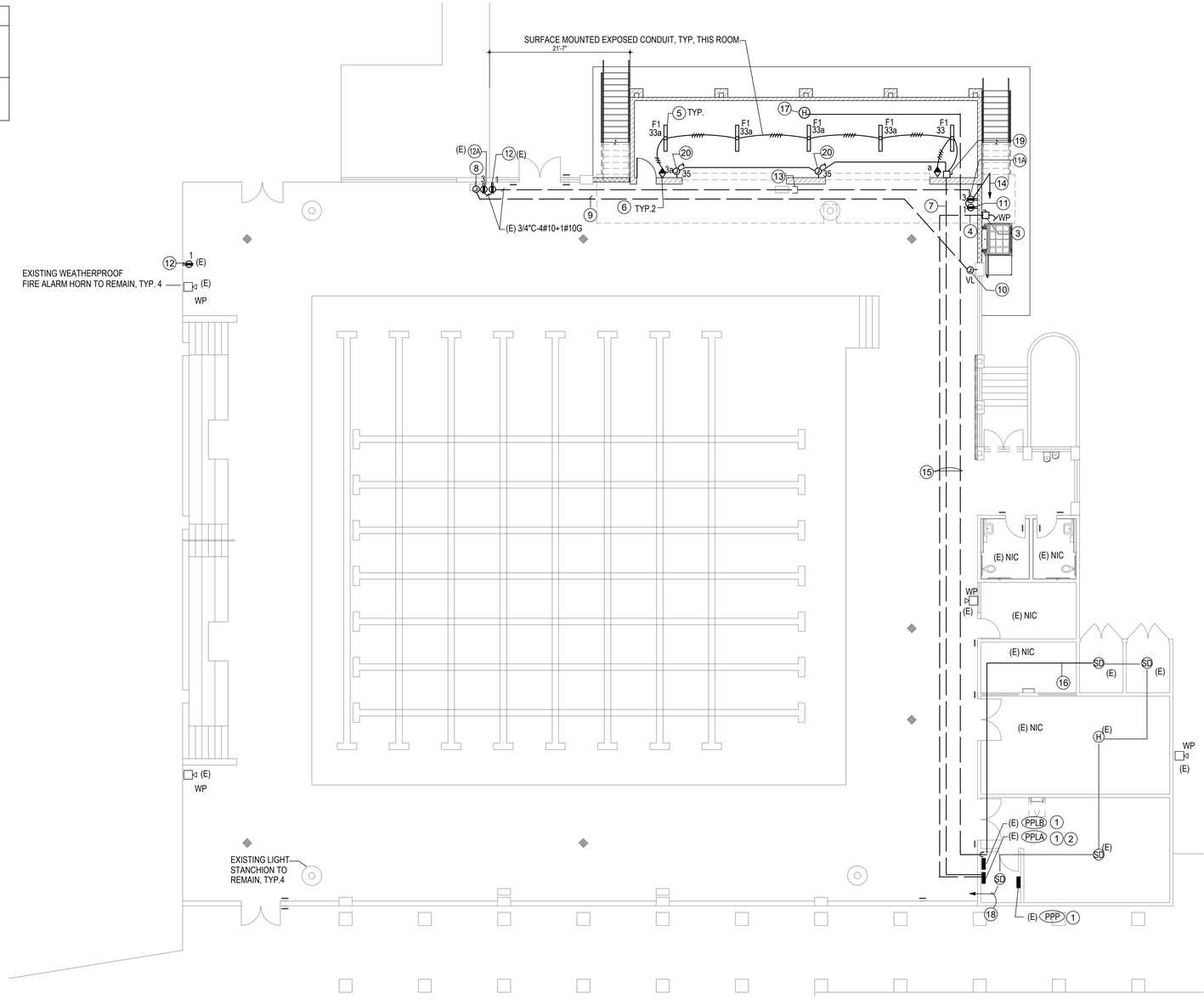
SINGLE LINE DIAGRAM
PANEL SCHEDULE AND
VOLTAGE DROP CALCULATIONS

Job No. 2986.0100

Date 04-14-2023

E1.00

LEGEND	
◆	OCCUPANCY WALL SWITCH, PIR, 120V SENSOR SWITCH CAT: WSXA-WH



ELECTRICAL PLAN 1 E2.00
SCALE: 1 / 8" = 1' - 0"

GENERAL NOTES

1. WIRING MAY BE SHOWN OFFSET FOR DRAWING CLARITY.
2. EQUIPMENT GROUNDING CONDUCTOR MUST BE PROVIDED WITH EACH BRANCH CIRCUIT WHETHER OR NOT SHOWN ON THE DRAWING.
3. ALL WIRING/CABLES TO BE RUN IN CONDUIT.
4. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND EQUIPENT SHOP DRAWINGS.
5. EXACT LOACATION OF ALL LIGHT FIXTURES SHALL BE COORDIANTED WITH ARCHITECTURAL PLANS, NO EXCEPTIONS.
6. ALL LIGHTING CONTROL SWITCHES SHALL BE +48"(MAX).
7. ALL CONDUIT PENTRATIONS THROUGH WALL AND ROOF MUST BE FIREPROOFED AND OR WEATHERPROOFED.
8. FIRE ALARM SYSTEM IS EXISTING.
9. INFORMATION REGARDING EXISTING CONDITIONS HAVE BEEN OBTAINED FROM THE BEST SOURCES AVAILABLE. CONTRACTOR MUST FIELD VERIFY PANEL DESIGNATIONS AND CIRCUIT IDENTIFICATIONS PRIOR DOING ANY WORK. DISCREPANCIES, IF ANY, MUST BE REFLECTED ON THE AS-BUILT DRAWINGS.

REFERENCED NOTES:

1. EXISTING PANEL.
2. PROVIDE NEW 15A,1P 120V, CIRCUIT BREAKERS IN SPACES #33,#35 AND NEW 20A,1P, 120V CIRCUIT BREAKER IN SPACE #31 TO MATCH EXISTING.
3. PROVIDE WEATHERPROOF 30A, 2 POLE, 120V DISCONNECT SWITCH FOR VERTICAL LIFT, VERIFY LOCATION. MAKE ALL CONNECTIONS COMPLETE PER EQUIPMENT INSTALLATION INSTRUCTIONS.
4. HOMERUN 1"C-2#8+1#8 GND TO "PPLA - 31", ROUTE UNDERGROUND 18"
5. SURFACE MOUNT LIGHT FIXTURE TO CONCRETE CEILING DECK. LIGHT FIXTURE WEIGHT APPROX. 5 LBS.
6. OCCUPANCY SENSOR SWITCH.
7. HOMERUN 1"C-4#10-+1#10 GND TO CIRCUITS PPLA-33 AND PPLA-35. ROUTE UNDERGROUND 18".
8. EXISTING FLUSH MOUNTED JUNCTION BOX FOR SPEAKERS TO REMAIN. PROVIDE WEATHERPROOF JUNCTION BOX EXTENDER TO EXTEND NEW 1" CONDUIT ONLY WITH PULLSTRING TO NEW SPEAKER JUNCTION BOX (NOTE #10).
9. EXTEND 1" CONDUIT ONLY UG WITH PULLSTRING FOR SPEAKER WIRES. FROM EXISTING SPEAKER JUNCTION BOX TO NEW SPEAKER JUNCTION BOX (NOTE #10). VERIFY ROUTING PRIOR ROUGH-INS.
10. PROVIDE WEATHERPROOF JUNCTION BOX FOR NEW SPEAKER. MOUNTAT +10' AFF, VL.
11. RELOCATED RECEPTACLE LOCATION. PROVIDE NEW WEATHER RESISTANT 20A, 120V, GFCI DUPLEX RECEPTACLE WITH EXTRA-DUTY WEATHERPROOF IN USE RECEPTACLE COVER.
11A. RELOCATED RECEPTACLE LOCATION. PROVIDE NEW WEATHER RESISTANT NEMA 5-30 RECEPTACLE WITH EXTRA-DUTY WEATHERPROOF IN USE RECEPTACLE COVER.
12. EXISTING DOWNSTREAM NEMA 5-20 WEATHERPROOF RECEPTACLE MAINTAIN CIRCUIT CONTINUITY. VERIFY BRANCH CIRCUIT PRIOR WORK.
12. EXISTING DOWNSTREAM NEMA 5-30 WEATHERPROOF RECEPTACLE. MAINTAIN CIRCUIT CONTINUITY. VERIFY BRANCH CIRCUIT PRIOR WORK.
13. INTERCEPT EXISTING CONDUIT FOR DOWNSTEAM RECEPTACLES AND REWIRE EXISTING DOWN STREAM RECEPTACLE ON CIRCUITS #1 AND #3 TO HAVE SEPARATE NEUTRALS.
14. PROVIDE NEW 3/4"C-4#10+1#10 GND HOMERUN TO PANEL "PPLA" FOR CIRCUIT #1 AND #3.
15. ROUTE CONDUIT UNDEGROUND.
16. EXTEND EXISTING FIRE ALARM SIGNALLING CIRCUIT IN CONDUIT FROM EXISTING HEAT DETECTOR TO NEW HEAT DETECTOR IN STORAGE ROOM. SEE FIRE ALARM NOTES AND DETAILS ON E3.00 FOR INFO.
17. PROVIDE NEW HEAT DETECTOR COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
18. EXISTING CONDUIT AND WIRING TO FIRE ALARM TERMINAL CABINET IN GYM.
19. 30A, 240V, 3 POLE DISCONNECT SWITCH IN NEMA 1 ENCLOSURE TO DISCONNECT ALL UNGROUNDED CONDUCTORS INTO THE BUILDING. PROVIDE SQUARE "D" CAT # DU321.
20. PROVIDE JUNCTION BOX FOR CONNECTION TO ROLL UP DOOR MOTOR. MAKE ALL CONNECTIION TO PUSH BUTTON,KEYSWITCH CONTROLS, MOTOR, DOOR SENSING AND SAFETY DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS COMPLETE.

ASSISTIVE LISTENING SYSTEM

A. ASSISTIVE LISTENING SYSTEM SERVER

FURNISH AND INSTALL AN AUDIO OVER WI-FI ASSISTIVE LISTENING SYSTEM FOR USE IN CHALLENGING AUDIO ENVIRONMENTS AND FOR THE HEARING IMPAIRED. THE ASSISTIVE LISTENING SYSTEM (ALS) SHALL BE CAPABLE OF OPERATING IN THE 2.4 AND 5 GHZ UNLICENSED WI-FI BANDS ALLOWING LOW LATENCY STREAMING OF AUDIO FROM A LISTEN EVERYWHERE SERVER ACROSS A LOCAL AREA NETWORK TO DEDICATED WI-FI AUDIO RECEIVERS AND GUESTS' SMARTPHONES RUNNING THE LISTEN EVERYWHERE MOBILE APPLICATION. THE SYSTEM SHALL SUPPORT MOUNTING OF THE SERVER INTO A STANDARD 19" AUDIO RACK.

THE SYSTEM SHALL SUPPORT ENCRYPTED AND SECURE COMMUNICATIONS, EMPLOYING PASSCODE PROTECTED PRIVATE CHANNELS TO ENSURE COMPLETE CONFIDENTIALITY IN COMMUNICATION AND STREAMING. THE SYSTEM SHALL SUPPORT CUSTOMIZATIONS TO THE MOBILE APPLICATION USER INTERFACE USING A REMOTE CLOUD SERVICES PROGRAMMING INTERFACE. THE SYSTEM SHALL SUPPORT CUSTOM APP THEMES AND COLORS, CHANNEL NAMES AND LOGOS, WELCOME VIDEO ADS OR LOGOS, AND IN APP SLIDING BANNERS.

THE SYSTEM SHALL HAVE A SIGNAL-TO-NOISE RATIO OF 74 DB OR GREATER AND SHALL HAVE AN AUDIO FREQUENCY RESPONSE OF 20 HZ – 20 KHZ (±1 DB). THE SYSTEM SHALL HAVE AUDIO LATENCY OF LESS THAN 80MS. THE RECEIVERS SHALL FULLY CHARGE IN UNDER 2.5 HOURS AND HAVE A BATTERY RUN TIME OF OVER 30 HOURS.

B.) PORTABLE AUDIO RECEIVERS - PROVIDE 7 RECEIVERS (4% OF 157 SEATS)

THE DEVICE SHALL BE A DIGITAL RECEIVER OPERATING IN THE 2.4 AND 5 GHZ UNLICENSED WI-FI BANDS ALLOWING LOW LATENCY STREAMING OF AUDIO FROM A LISTEN EVERYWHERE SERVER ACROSS A LOCAL AREA NETWORK. THE DEVICE SHALL BE A PROVISIONED SMARTPHONE, LOCKED DOWN AND CONFIGURED STRICTLY FOR USE AS A WI-FI AUDIO RECEIVER, RUNNING THE LISTEN EVERYWHERE MOBILE APPLICATION WITH NO OTHER DEVICE SERVICES OR APPLICATIONS BEING ACCESSIBLE. THE DEVICE SHALL PROVIDE ACCESS TO WIFI NETWORK SETTINGS FROM THE HOME SCREEN. THE DEVICE SHALL PROVIDE A METHOD TO PAIR BLUETOOTH DEVICES FROM THE HOME SCREEN. CHANNEL SELECTION SHALL BE MADE VIA THE FRONT PANEL TOUCH DISPLAY VIA THE LISTEN EVERYWHERE APPLICATION. THE DEVICE SHALL PROVIDE EASY TO ACCESS VOLUME CONTROL USING THE SIDE VOLUME BUTTONS.

THE DEVICE SHALL SUPPORT ENCRYPTED AND SECURE COMMUNICATIONS, EMPLOYING PASSCODE-PROTECTED PRIVATE CHANNELS TO ENSURE COMPLETE CONFIDENTIALITY IN COMMUNICATION AND STREAMING. IT SHALL BE POWERED VIA A NON-REMOVABLE RECHARGEABLE LITHIUM-POLYMER BATTERY. THE DEVICE SHALL INCORPORATE AUTOMATIC BATTERY CHARGING CIRCUITRY TO CHARGE AND MAINTAIN THE LITHIUM-POLYMER BATTERY VIA THE USB-C PORT ON THE DEVICE. THE RECEIVER SHALL HAVE A 3.5 MM TRRS CTIA COMPLIANT HEADPHONE CONNECTION ALLOWING OPERATION WITH STANDARD STYLE HEADPHONES. IT SHALL HAVE A TOUCH DISPLAY WITH AUTO-DIMMING, ALLOWING DISPLAY OF THE LISTEN EVERYWHERE USER INTERFACE AS WELL AS BATTERY PERCENTAGE, WI-FI SIGNAL STRENGTH, CHARGING STATUS, AND VOLUME ADJUSTMENTS.

C.) ADVANCE NECK LOOP - PROVIDE 2 (25% OF TOTAL QUANTITY OF RECEIVERS)
D.) EAR SPEAKER - PROVIDE 7 (1 PER RECEIVER)
E.) PROTECTIVE CASE - PROVIDE 7 (1 PER RECEIVER)
F.) PROT USB-C CHARGER - PROVIDE 7 (1 PER RECEIVER)

FIXTURE SCHEDULE

DESIG. / WATTS	LAMPS	DESCRIPTION	FINISH	MOUNTING
F1 25	LED 4000LM 3500°K	LED:4' 3000LM STRIP LIGHT, WITH FLAT DIFFUSE LENS AND WIREGUARD, 120V,80 CRI, 0-10V DIMMING LITHONIA: CLX-L48-4000LM-SEF-FDL-120-GZ10-35K-80CRI-WH-WGCLX48WH	WHITE	CEILING

1 - PROVIDE LIGHT FIXTURES AS SPECIFIED, 'NO SUBSTITUTES SHALL BE ALLOWED'
2 - ALL LIGHT FIXTURES ARE FOR 120V (UON).
3 - ALL LIGHTING FIXTURES TO BE TITLE 20/24 CERTIFIED.

FIXTURE SCHEDULE 2 E2.00
NTS

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN. 64337-111 APPL 03-123187

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Drawn by DT
Checked by DT

Revisions

No.	Date	Description

BURBANK UNIFIED
SCHOOL DISTRICT

BURBANK
HIGH SCHOOL
AQUATIC CENTER
STORAGE BUILDING

902 NORTH 3RD STREET
BURBANK, CA 91502

ELECTRICAL PLAN
AND FIXTURE SCHEDULE

Job No. 2986.0100
Date 04-14-2023

E2.00

SCOPE OF WORK

CONNECT ONE HEAT DETECTOR IN NEW STORAGE ROOM TO EXISTING FIRE ALARM SYSTEM. REPLACE OBSOLETE LOCAL FIRE ALARM CONTROL PANEL WITH NEW AND CONNECT TO EXISTING MASTER FIRE ALARM CONTROL PANEL DSA #A03-103550.

GENERAL FIRE ALARM NOTES

1. ALL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 72 AND AUTHORITIES HAVING JURISDICTION.
2. ALL WIRING SHALL BE IN ACCORDANCE WITH THE N.E.C. AND AUTHORITIES HAVING JURISDICTION.
3. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE APPLICABLE.
4. STROBE LOCATION IS BASED ON 10 FOOT CEILING HEIGHT AND ARE INSTALLED ACCORDING TO NFPA 72 REQUIREMENTS UNLESS OTHERWISE NOTED. ANY DEVICES ON CEILING OVER 10 FEET WILL BE DERATED PER NFPA-72.
5. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
6. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
7. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
8. FIRE ALARM SYSTEM INSTALLATION COMPANY SHALL BE UL LISTED (UUJS).
9. STROBES SHALL BE SYNCHRONIZED PER MANUFACTURER'S INSTRUCTIONS.
10. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS ALLOW.
11. FIRE ALARM INSTALLATION COMPANY SHALL BE UL LISTED (UUJS).
12. BUILDING OWNER SHALL CONTRACT "AVANT GUARD" ,A LISTED CENTRAL MONITORING CENTER,TO MONITOR FIRE ALARM SYTEM 24 HOURS OWNER TO PROVIDE CELLULAR MODEM FOR COMMUNICATION TO THE CENTRAL SYSTEM.

AVANTGUARD------PHONE#: (801) 781-6100 UL#: 610585 ACCOUNT#: GML97513

FIRE ALARM SYMBOL LEGEND

SYMBOL	QTY.	DESCRIPTION	MODEL #	C.S.F.M. #	BACK BOX REQUIREMENTS
(H)	1	HEAT DETECTOR	FST-951	7270-0028:0502	
		HEAT DETECTOR BASE	B300-6	7300-1653:0109	
FACP	1	FIRE ALARM CONTROL PANEL	NOTIFIER NFS2-640	7165-0028:0243	

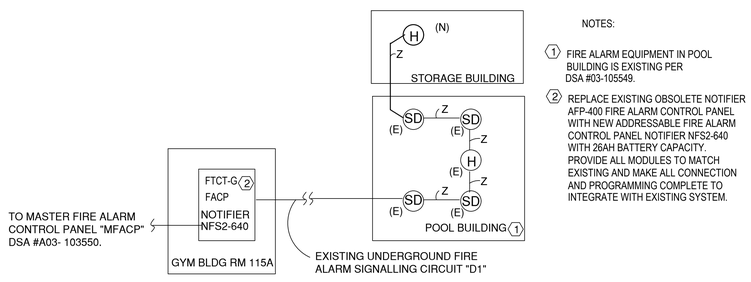
FIRE ALARM WIRE LEGEND

SYMBOL	CIRCUIT DESCRIPTION	CONDUCTOR COLOR	WIRE IN CONDUIT	NO CONDUIT NO PLENUM	NO CONDUIT IN PLENUM	UNDERGROUND/ WET SYMBOL	WIRE IN CONDUIT UNDERGROUND/WET	CLASS
Z	SIGNAL LINE CIRCUIT (SLC)	RED / BLACK	2 CONDUCTOR 2/16 FPL SOLID TWISTED/UNSHIELDED	2 CONDUCTOR 2/16 FPLR SOLID TWISTED/UNSHIELDED	2 CONDUCTOR 2/16 FPLP SOLID TWISTED/UNSHIELDED	ZU	2 CONDUCTOR 2/16 FPL STRANDED TWISTED/ SHIELDED WEST PENN#AQ225	B

ALL FIRE ALARM CABLES INSTALLED IN CONDUITS OUTDOOR AND UNDERGROUND SHALL BE "AQUA SEAL" (AQC) RATED.

SEQUENCE OF OPERATION MATRIX / DEVICES → OPERATIONS ↓	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	DUCT SMOKE DETECTOR	SPRINKLER WATER FLOW SWITCH	SPRINKLER TAMPER SWITCH	120VAC POWER FAILURE	HEAT DETECTOR (ELEVATOR)	
ANNUNCIATE ALARM AND TROUBLE AT THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN BUILDING #1	YES	YES	YES	YES	YES	YES	YES	NO	
ANNUCIATE ALARM AND TROUBLE AT THE REMOTE ANNUCIATOR PANEL LOCATED AT LOBBY LEVEL OF BUILDING #1	YES	YES	YES	YES	YES	YES	YES	NO	
TRANSMIT ON ALARM AND TROUBLE SIGNAL TO FIRE ALARM REMOTE ANNUCIATOR	YES	YES	YES	YES	YES	YES	YES	NO	
AIR HANDLING UNIT SYSTEM (AHU) ANDCFSD SHUTDOWN	YES	YES	YES	YES	YES	YES	YES	NO	
RELEASE ALL DOOR HOLDERS	YES	YES	YES	YES	YES	NO	NO	NO	
ACTIVATE AUDIBLEVSISUAL SIGNAL THROUGHOUT THE BUILDING	YES	YES	YES	YES	YES	NO	NO	NO	
TRANSMIT ON ALARM AND TROUBLE SIGNAL TO A MONITORING STATION	YES	YES	YES	YES	YES	NO	NO	NO	
LOWER ELEVATOR TO THE HOME FLOOR	NO	NO	NO	NO	NO	NO	NO	NO	
SHUTDOWN ELEVATOR	NO	NO	NO	NO	NO	NO	NO	YES	

SEQUENCE OF OPERATION OF (E)FIRE ALARM SYSTEM — NTS — 1 / E3.00



NOTES:

1. FIRE ALARM EQUIPMENT IN POOL BUILDING IS EXISTING PER DSA #03-105549.
2. REPLACE EXISTING OBSOLETE NOTIFIER AFP-400 FIRE ALARM CONTROL PANEL WITH NEW ADDRESSABLE FIRE ALARM CONTROL PANEL NOTIFIER NFS2-640 WITH 26AH BATTERY CAPACITY. PROVIDE ALL MODULES TO MATCH EXISTING AND MAKE ALL CONNECTION AND PROGRAMMING COMPLETE TO INTEGRATE WITH EXISTING SYSTEM.

PARTIAL FIRE RISER DIAGRAM — NTS — 2 / E3.00

BATTERY CALCULATION (FIRST FLOOR GYM)

PART NUMBER	DESCRIPTION	QTY.	SUPERV. AMPS UNIT	SUPERV. AMPS TOTAL	ALARM AMPS UNIT	ALARM AMPS TOTAL
FCPS	(E) POWER SUPPLY	1	0.075	0.075	0.075	0.075
	(E)PULL STATION W/MONITORING MODULE	6	0.000375	0.00225	0.000375	0.00225
	(E) DUCT SMOKE DETECTOR/BASE	43	0.0003	0.0129	0.0065	0.2795
	(E) SMOKE DETECTOR/BASE	6	0.0003	0.0018	0.0065	0.039
	(E) HEAT DETECTOR/BASE	3	0.0003	0.0009	0.0065	0.0195
	(E) SMOKE DETECTOR/BASE	1	0.0002	0.0002	0.0045	0.045
	(E) STROBE 15cd 24VDC	7	---	---	0.056	0.392
	(E) STROBE 30cd 24VDC	4	---	---	0.051	0.204
	(E) HORN/15CD STROBE 24VDC	18	---	---	0.064	1.152
	(E) HORN/30CD STROBE 24VDC	3	---	---	0.092	0.276
	(E) HORN/75CD STROBE 24VDC	7	---	---	0.149	1.043
	(E) HORN/110CD STROBE 24VDC	16	---	---	0.177	2.832
	(E) HORN-WP	19	---	---	0.08	0.96
	(E) STROBE 15cd 24VDC	3	---	---	0.06	0.18
	(E) HORN/30CD STROBE 24VDC	1	---	---	0.092	0.092
	(N) HEAT DETECTOR/BASE	1	0.0002	0.0002	0.0065	0.0065
				TOTAL 0.092		7.60

SUPERVISORY TIME= 24 HOURS

SUPERVISORY AH =SUPV. CURRENT X 24 H = 0.092 AMPS X 24 H = 2.21 AH

ALARM TIME= 5 MINUTES = 0.083 HOURS

ALARM AH =ALARM CURRENT X 0.083 H =7.60 AMPS X 0.083 H = .63AH

BATTERY AH =SUPERVISORY AH + ALARM AH =2.21AH + 0.63 AH = 2.84 AH

AGING FACTOR= 25%

DESIGN MARGIN= 15%

BATTERY SIZE WITH AGING FACTOR AND DESIGN MARGIN= 2.84 AH X 1.25 X 1.15 = 4.08 AH

BATTERY PROVIDED= 7 AH SPARE = 2.92 AH

FIRE ALARM VOLTAGE DROP

WIRE TYPE FOR SIGNALLING DEVICES CIRCUIT: #16 THWN CU
RESISTANCE OF WIRE (R2): 5.29 OHM/1000'

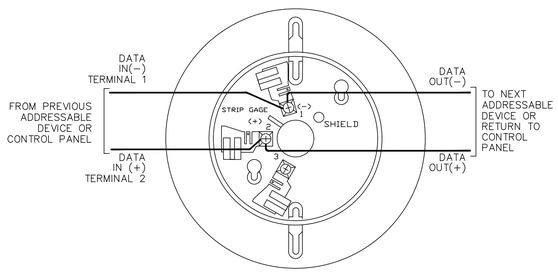
FOR SIGNALLING DEVICE CIRCUIT

SIGNALLING CIRCUIT DEVICES:	NUMBER	AMP/DEVICE	TOTAL AMPS (A)
(E) FDX-551 HEAT DETECTOR	3	0.0065	0.0195
(E) DUCT SMOKE DETECTOR	22	0.0045	0.0099
(E) PULL STATION	6	0.00375	0.0225
(E) FST-941 SMOKE DETECTOR	1	0.0045	0.0045
(NEW) FST-941 HEAT DETECTOR	1	0.0045	0.0045

TOTAL AMPS PER CIRCUIT= 0.0609

VOLTAGE DROP: 2 X R2 X L X A/1000 =
2 X 5.29 X 250 X .0609/1000 = 0.161
0.67% OF 24V CIRCUIT

Voltage % Method: Voltage drop / Applied voltage
NOTE: VOLTAGE DROP% SHALL NOT EXCEED 10%

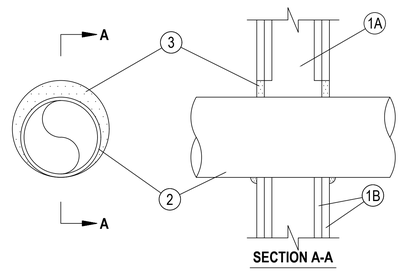


HEAT DETECTOR WIRING DIAGRAM — NTS — 4 / E3.00

C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft L Rating at 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

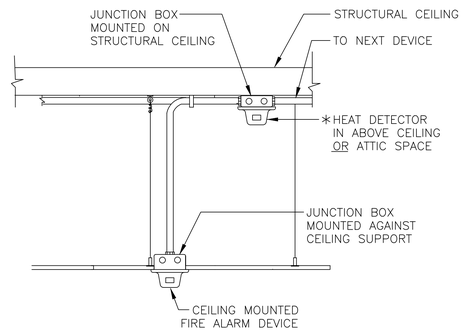
   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015

FIRE STOP DETAIL — SCALE: NTS — 3 / E3.00



∗ – TEMPERATURE SETTING OF HEAT DETECTOR DEVICE TO BE SET AT MINIMUM OF 20°F. ABOVE THE MAXIMUM EXPECTED TEMPERATURE OF THE SPACE INSTALLED PER NFPA 72, 2016 17.6.2.3.

HEAT DETECTOR MOUNTING — NTS — 5 / E3.00

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN. 64337-111 APPL. 03-123187

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architecture planning interiors

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An Employee Owned Corporation

ARCHITECT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — DANA S TONA — No. E14963 Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

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Drawn by DT
Checked by DT
Revisions

No.	Date	Description

BURBANK UNIFIED SCHOOL DISTRICT

BURBANK HIGH SCHOOL AQUATIC CENTER STORAGE BUILDING

902 NORTH 3RD STREET
BURBANK, CA 91502

FIRE ALARM
NOTES AND DETAILS

Job No. 2986.0100

Date 04-14-2023

E3.00

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii		
Project Name: BURBANK HIGH SCHOOL POOL MODERNIZATION	**Report Page:**	**(Page 1 of 4)**
Project Address:	**Date Prepared:**	2023-03-28T18:19:57-04:00

A. GENERAL INFORMATION

01	Project Location (city)	BURBANK	02	Climate Zone	9
			03	Occupancy Types Within Project:	Support Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
EXISTING	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

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STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: BURBANK HIGH SCHOOL POOL MODERNIZATION	**Report Page:**	**(Page 2 of 4)**
	Date Prepared:	2023-03-28T18:19:57-04:00

C. COMPLIANCE RESULTS

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

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.

01	02	03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
					Pass / Fail
EXISTING	☒ Voltage drop less than 5%	☐ Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E1.00	☐ / ☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 97646-0323-0002
Report Generated: 2023-03-28 15:19:59

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: BURBANK HIGH SCHOOL POOL MODERNIZATION	**Report Page:**	**(Page 3 of 4)**
	Date Prepared:	2023-03-28T18:19:57-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 97646-0323-0002
Report Generated: 2023-03-28 15:19:59

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: BURBANK HIGH SCHOOL POOL MODERNIZATION	**Report Page:**	**(Page 4 of 4)**
Project Address:	**Date Prepared:**	2023-03-28T18:19:57-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dana Tonai	Documentation Author Signature:
Company: Parviz Ebrahimi Inc	Signature Date: 03-28-2023
Address: 25101 The Old Road	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Santa Clarita, CA 91381	Phone: (818) 991-7371

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dana Tonai	Responsible Designer Signature:
Company: Parviz Ebrahimi Inc	Date Signed: 03-28-23
Address: 25101 The Old Road	License: E14963
City/State/Zip: Santa Clarita, CA 91381	Phone: (818)991-7371

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 97646-0323-0002
Report Generated: 2023-03-28 15:19:59

TITLE 24 - NRCC-ELC-E
SCALE: NTS

1
E4.00

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN 64337-111 APPL 03-123187

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architecture planning interiors

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An Employee Owned Corporation

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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
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No. E14963
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

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SANTA CLARITA, CALIFORNIA 91381
tel. : (818) 991-7371
email:peinc.info@earthlink.net

Drawn by DT

Checked by DT

Revisions

No.	Date	Description

BURBANK UNIFIED
SCHOOL DISTRICT

BURBANK
HIGH SCHOOL
AQUATIC CENTER
STORAGE BUILDING

902 NORTH 3RD STREET
BURBANK, CA 91502

TITLE 24 - POWER DISTRIBUTION
NRCC-ELC-E

Job No. 2986.0100

Date 04-14-2023

E4.00

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name:	BURBANK HIGH SCHOOL POOL MODERNIZATION	**Report Page:** (Page 1 of 7)
Project Address:		**Date Prepared:** 2023-03-28T18:30:30-04:00

A. GENERAL INFORMATION

01	Project Location (city)	BURBANK	04 Total Conditioned Floor Area (ft²)	0
02	Climate Zone	9	05 Total Unconditioned Floor Area (ft²)	608
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	0
• Support Areas				

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	N/A	0	Area Category Method	608
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)			608	

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results
	01	02	03	04	05	06	07 Adjustments	08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	**Total Allowed** (Watts)	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		(See Table F)	(See Table P)		
Conditioned					=			=	
Unconditioned		273.6			= 273.6	≥ 127.5		= 127.5	COMPLIES
							Controls Compliance (See Table H for Details)		COMPLIES
							Rated Power Reduction Compliance (See Table Q for Details)		

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10 Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
F1	4' STRIP LIGHT, LED, 4000LM	No	NA	25.5	Mfr. Spec	5	No	127.5	☐	☐
							Total Designed Watts: UNCONDITIONED SPACES	127.5		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F outomatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03 Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls		

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12 Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Pass	Fail
STORAGE	Storage - MF common areas	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category	PAF
STORAGE	Storage - MF common areas	0.45	608	273.6	No	No
		TOTALS:	608	273.6	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	STORAGE

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dana Tonai	Documentation Author Signature: Dana Tonai
Company: Parviz Ebrahimi Inc	Signature Date: 03-28-2023
Address: 25101 The Old Road	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Santa Clarita, CA 91381	Phone: (818)991-7371

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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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Responsible Designer Name: Dana Tonai	Responsible Designer Signature: Dana Tonai
Company: Parviz Ebrahimi Inc	Date Signed: 03-28-2023
Address: 25101 The Old Road	License: E14963
City/State/Zip: Santa Clarita, CA 91381	Phone: (818) 991-7371

TITLE 24 - NRCC-LTI-E
SCALE: NTS
1 / E4.01

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123187 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/16/2024

PTN 64337-111 APPL 03-123187

FLEWELLING & MOODY
architecture planning interiors

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An Employee Owned Corporation

ARCHITECT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
DANA S TONAI
No. E14963
Exp. 6/30/23
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STATE OF CALIFORNIA

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25101 THE OLD ROAD
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tel. : (818) 991-7371
email:peinc.info@earthlink.net

Drawn by: DT
Checked by: DT

Revisions

No.	Date	Description

BURBANK UNIFIED
SCHOOL DISTRICT

BURBANK
HIGH SCHOOL
AQUATIC CENTER
STORAGE BUILDING

902 NORTH 3RD STREET
BURBANK, CA 91502

TITLE 24 - INDOOR LIGHTING
NRCC-LTI-E

Job No. 2986.0100
Date 04-14-2023

E4.01