METRO SLOPES

50 BRODERICK RD, BURLINGAME, CA 94010



360 seventeenth street | suite 200 | oakland, californi

METRO SLOPES

50 BRODERICK RD, BURLINGAME, CA 94010

MP

NOT FOR CONSTRUCTION

DATE ISSUES & REVISIONS

4/25/2025 PERMIT SUBMITTAL

8/13/2025 PERMIT
RESUBMITTAL

9/25/2025 PLANNING
RESUBMITTAL

RECEIVED

SEP 26, 2025

CITY OF BURLINGAME CDD-PLANNING DIVISION

CHECKED BY: DC
PROJECT NUMBER: OAK24-CO-052
CONSULTANT PROJECT NO:
SHEET TITLE:

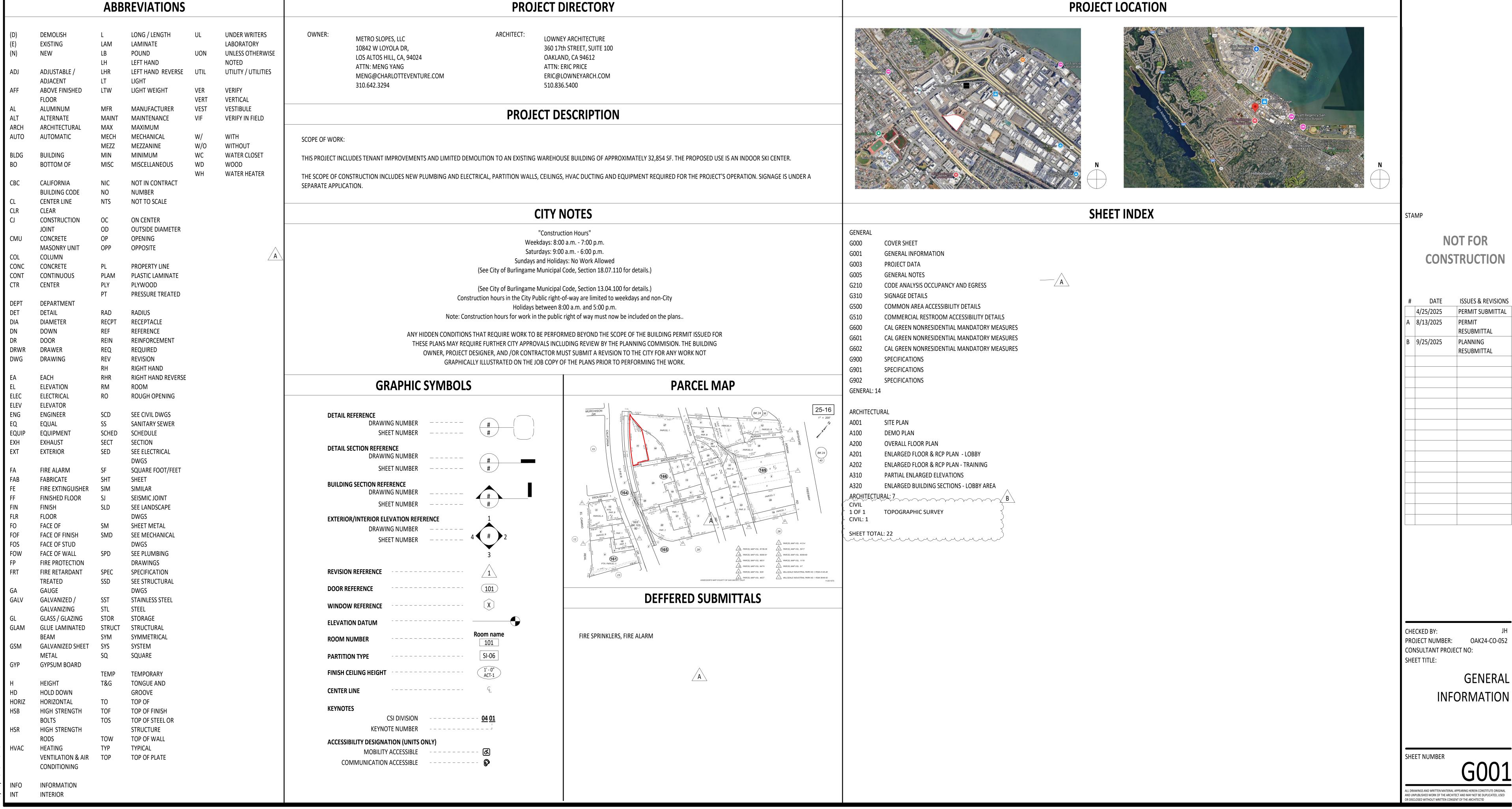
COVER SHEET

SHEET NUMBER

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CONSTRUCTION

#	DATE	ISSUES & REVISIONS
	4/25/2025	PERMIT SUBMITTAL
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		RESUBMITTAL
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		RESUBMITTAL
	1	

OAK24-CO-052

INFORMATION

ZONIN	IG CODE ANALYSIS	APPLICABLE CODES	
	NING DATA	CALIFORNIA CODE OF REGULATIONS (CCR)	lowney
PROJECT ADDRESS	50 BRODERICK RD, BURLINGAME, CA 94010	2022 TITLE 24, PART 1 - CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE 2022 TITLE 24, PART 2 - CALIFORNIA BUILDING CODE	arch
ASSESSOR'S PARCEL #	025166110	2022 TITLE 24, PART 3 - CALIFORNIA ELECTRICAL CODE 2022 TITLE 24, PART 4 - CALIFORNIA MECHANICAL CODE	TEL 510.836.5400 URL lowneyarch.com 360 seventeenth street suite 200 oakland, california 94612
ZONING DISTRICT LOT AREA	RRMU - Rollins Road Mixed Use 282,312 SF (6.48ACRES)	2022 TITLE 24, PART 5 - CALIFORNIA PLUMBING CODE 2022 TITLE 24, PART 6 - CALIFORNIA ENERGY CODE	METRO SLOPES
LOT COVERAGE	11.6 %	2022 TITLE 24, PART 9 - CALIFORNIA FIRE CODE 2022 TITLE 24, PART 10 - CALIFORNIA EXISTING BUILDING CODE 2022 TITLE 24, PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE	WILLING SECTES
		2022 TITLE 24, PART 11 - CALIFORNIA GREEN BOILDING STANDARDS CODE 2022 TITLE 24, PART 12 - CALIFORNIA REFERENCE STANDARDS CODE	
		ACCESSIBILITY: CBC 11B	50 BRODERICK RD, BURLINGAME, CA 94010
<u>/ A \</u>		ALL CONSTRUCTION TO COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.	
		PROJECT WILL COMPLY WITH THE 2022 CALIFORNIA BUILDING CODE, 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA ELECTRICAL CODE, AND 2022 CALIFORNIA PLUMBING CODE, INCLUDING ALL	
		AMENDMENTS AS ADOPTED IN ORDINANCE 1889.	
	PARKING		
	CIAL RECREATIONAL, LARGE		
1 SPACE / 500 SF (33,200 SF/500SF = 66.4)	REQUIRED PROVIDED A 67 SPACES 73 SPACES		
, , , , , , , , , , , , , , , , , , , ,	7,00171023		
BUILDIN	G CODE ANALYSIS		
GROSS BUILDING AF			
Name LOBBY ENTRY	AREA 4,706 SF		
TRAINING 2	28,475 SF 33,180 SF		
BUILDING CODE: FLOOR AREA	<u> </u>		
EXCLUSIVE OF VENT SHAFTS AND COURTS. TH	I THE EXTERIOR WALLS OF A BUILDING OR PORTION THEREOF, E FLOOR AREA OF A BUILDING, OR PORTION THEREOF, NOT ALLS SHALL BE USABLE AREA UNDER THE HORIZONTAL		STAMP
PROJECTION OF THE ROO F OR FLOOR ABOVE.			NOT FOR
			NOT FOR CONSTRUCTION
CODE	BREAKDOWN		CONSTRUCTION
CHAPTER 3: OCCUPANCY CLASSIFICATION AN	D USF		# DATE ISSUES & REVISIO
OCCUPANCY CLASSIFICATION	Δ		4/25/2025 PERMIT SUBMITT. A 8/13/2025 PERMIT
ACCESSORY OCCUPANCIES	B, M A		RESUBMITTAL
CHAPTER 5: GENERAL BUILDING HEIGHTS ANI	D AREAS		
	ALLOWABLE PROVIDED		
BUILDING HEIGHT (TABLE 504.3)	75' 29' (EXISTING)		
NUMBER OF STORIES (TABLE 504.4) SPRINKLED	3 1 (EXISTING)		
CHAPTER 6: TYPES OF CONSTRUCTION			
	шь		
FIRE RATING (CBC TABLE 601)	IIIB		
PRIMARY STRUCTURAL FRAME (EXISTING)	0		
EXTERIOR BEAMING WALLS (EXISTING)	2		
NONBEARING WALLS, INTERIOR	0		
FLOOR CONSTRUCTION AND ASSOCIATED SEC	ONDARY		
STRUCTURAL MEMBERS	0		
ROOF CONSTRUCTION AND ASSOCIATED SECO	O O		
			CHECKED BY: Checker PROJECT NUMBER: OAK24-CO-052
			CONSULTANT PROJECT NO: SHEET TITLE:
			PROJECT DATA
			SHEET NUMBER
			G003
			ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT®

GENER
1. ALL CONSTRUCTION TO CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CONSISTING OF THE: 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA FIRE CODE (CFC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), AS WELL AS 2022 CALIFORNIA ENERGY STANDARDS.
2. ALL WORK SHALL CONFORM TO THE CONTRACT WHICH INCLUDES THE OWNER/CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH CONTAINS THE GENERAL AND SUPPLEMENTARY CONDITIONS, AND THE SPECIFICATIONS), THE DRAWINGS, AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT.
3. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN PRIOR TO SUBMITTING COST PROPOSAL. ANY CONFLICT OR OMISSIONS, ETC. SHALL BE IMMEDIATELY REPORTED TO THE OWNER FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION. FAILURE TO REPORT CONFLICT OR OMISSIONS WILL NOT RESULT IN ADDITIONAL COSTS TO OWNER.
4. IN CASE OF CONFLICT BETWEEN ARCHITECT'S AND CONSULTANTS' DRAWINGS IN LOCATING MATERIALS/EQUIPMENT, THE ARCHITECT SHOULD BE CONTACTED.
5. THE ARCHITECT HAS NO KNOWLEDGE OF AND SHALL NOT BE HELD LIABLE FOR ANY HAZARDOUS MATERIALS ON THE JOBSITE. IF ANY HAZARDOUS MATERIALS ARE DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL ISOLATE THE AFFECTED AREA AND CONTACT THE OWNER FOR FURTHER INSTRUCTIONS BEFORE PROCEEDING.
6. ALL WORK SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS WHENEVER POSSIBLE AND CONFORM TO BUILDING'S RULES AND REGULATIONS. WORK INVOLVING EXCESSIVE NOISE OR DUST, OR WHICH WOULD OTHERWISE INTERFERE WITH THE NORMAL OPERATION OF THE FACILITY SHALL BE DONE ON AN OVERTIME, NON-REGULAR BUSINESS HOUR BASIS TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ALL UTILITIES DETERMINED, IN THE COURSE OF CONSTRUCTION, AS BEING NECESSARY TO BE REMOVED, WHICH HAVE NOT OTHERWISE BEEN NOTED FOR REMOVAL IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REMOVE SUCH UTILITIES ONLY AFTER CONSULTATION WITH ARCHITECT AND OWNER'S REPRESENTATIVE. WHETHER PREDETERMINED IN THE CONSTRUCTION DOCUMENTS OR DETERMINED LATER IN FIELD, DISCONNECT, CUT BACK TO SOURCE, AND CAP ALL UTILITY SERVICES REMOVED. SEAL ALL PENETRATIONS CREATED BY REMOVAL OF UTILITIES TO MATCH ADJACENT CONSTRUCTION AND FINISHES.
8. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLACE.
9. "TYPICAL" OR "TYP" SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEYED AND NOTED "TYP" ONLY ONCE, WHEN THEY FIRST OCCUR.
10. "SIMILAR" OR "SIM." MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATIONS ON PLANS AND ELEVATIONS.
11. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
12. WORK AREAS ARE TO REMAIN CLEAR, SECURE AND LOCKABLE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE TO ENSURE SECURITY.
13. REMOVE FROM SITE AND LEGALLY DISPOSE OF DAILY ALL REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS OR CONSTRUCTION. BURNING OF DEBRIS ON SITE SHALL NOT BE PERMITTED. CONTRACTOR SHALL LEAVE THE PREMISES AND ALL AFFECTED AREAS CLEAN AND IN AN ORDERLY MANNER READY FOR MOVE IN AT THE END OF THE PROJECT. THIS SHALL INCLUDE CLEANING OF ALL INTERIOR AND EXTERIOR GLASS AND FRAMES, BOTH NEW AND EXISTING.
14. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS AND COMPLY WITH ALL CODES, LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL PUBLIC AUTHORITIES (FEDERAL, STATE, LOCAL) GOVERNING THE WORK. THE MOST STRINGENT ORDINANCES, RULES AND REGULATIONS SHALL APPLY.
15. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, WHAT IS SHOWN OR REFEREED TO ON ANY SHALL BE PROVIDED AS THOUGH SHOWN ON ALL.
16. SUBSTITUTIONS, REVISION OR CHANGES MUST BE SUBMITTED TO OWNER FOR REVIEW (IN CONFORMANCE WITH SPECIFIED PROCEDURES) PRIOR TO PURCHASE, FABRICATION OR INSTALLATION OR OWNER WILL NOT BE LIABLE FOR PAYMENT.
17. REMOVE TOOLS AND EQUIPMENT FROM SITE UPON COMPLETION OF WORK. LEAVE CONTRACT AREAS AND SITE CLEAN, ORDERLY AND IN CONDITION ACCEPTABLE FOR NEW OR OTHER CONSTRUCTION.
18. ALL WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, BUILDING FACILITIES DURING ALL PHASES OF WORK. MINIMUM DISTURBANCE OF EXISTING BUILDING FUNCTIONS AND OCCUPANTS IS ESSENTIAL.
19. THE SCOPE OF WORK AND ADJACENT AREAS SHALL BE PROTECTED FROM ANY DAMAGE THAT OCCURS BECAUSE OF THIS WORK. ANY DAMAGE THAT OCCURS SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
20. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED PER MANUFACTURER'S INSTRUCTIONS. IN CASE OF DIFFERENCES BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PROCEEDING.
21. ALL WORK NOTED "BY OTHERS" OR "N.I.C." SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS FOR THIS "OTHER" WORK IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE AS REQUIRED TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
22. CONTRACTOR SHALL CONFIRM DURING THE PRICING PERIODS ON-SITE DELIVERY DATES OF ALL MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS AND IMMEDIATELY NOTIFY THE OWNER IN WRITING OF POTENTIAL DELAYS TO THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO ORDER MATERIALS IN SUFFICIENT TIME FOR ORDERLY INSTALLATION, THE OWNER WILL NOT ENTERTAIN ANY REQUESTS FOR MATERIAL SUBSTITUTION.
23. PRESERVE AND MAINTAIN EXISTING EXITS DURING DEMOLITION AND CONSTRUCTION PHASES.
24. PROVIDE EXIT ILLUMINATION & SIGNS PER CBC SEC. 1006 & 1011.
25. ALL WORK SHALL MEET FEDERAL, STATE, AND LOCAL BUILDING CODES AND ORDINANCES IN EFFECT AT THE TIME OF CONSTRUCTION IN ADDITION TO ADA REQUIREMENTS.

NERAL NOTES

- 26. ALL MECHANICAL, ELECTRICAL, AND PLUMBING LOCATIONS SHOWN ON PLANS ARE FOR DESIGN INTENT ONLY.
- 27. THE CONTRACTOR SHALL SUBMIT TO THE OWNER FOR APPROVAL, A DETAILED CONSTRUCTION SCHEDULE SHOWING PHASING OF WORK AND MECHANICAL OR ELECTRICAL DISRUPTIONS TO BUILDING SERVICES.
- 28. REVIEW MECHANICAL SYSTEM TO DETERMINE IF RETURN AIR PLENUMS EXIST. WHERE APPLICABLE, MATERIALS EXPOSED IN RETURN AIR PLENUMS MUST MEET THE SPECIFIC REQUIREMENT FOR SUCH AN APPLICATION IN THE NATIONAL ELECTRICAL CODE AND UNIFORM MECHANICAL CODE. THIS INCLUDES THE TELEPHONE AND COMPUTER CABLES.
- 29. THE MAXIMUM FLAMESPREAD CLASSIFICATION OF FINISH MATERIALS USED ON INTERIOR WALLS AND CEILINGS MUST NOT EXCEED THE LIMITS SET FORTH IN CBC SEC. 803.1 & TABLE 803.9. IN ADDITION, CARPETING OR SIMILAR MATERIAL HAVING A NAPPED, TUFTED, LOOPED OR SIMILAR SURFACE AS WALL OR CEILING FINISH MUST HAVE A CLASS A FLAMESPREAD CLASSIFICATION.
- 30. PROVIDE LOCK BOX AS REQUIRED BY FIRE INSPECTOR.
- 31. ALL SEAMS, GAPS, CRACKS, AND CREVICES IN MILLWORK, TRIM, KITCHEN EQUIPMENT ATTACHED TO WALLS, BASE TILE, ETC. ARE TO BE COMPLETELY FILLED WITH CLEAR SILICONE TO OWNER'S APPROVAL.
- 32. ALL DIMENSIONS ARE TO FACE OF FINISH UON
- 33. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS GOVERN ALL PARTITION LOCATIONS. IN CASE OF UNCLARITY OR CONFLICT, NOTIFY ARCHITECT BEFORE PROCEEDING. FLOOR PLAN BY ARCHITECT SUPERCEDES OTHER PLANS. VERIFY EXACT LOCATIONS IN FIELD.
- 34. ALL DOOR OPENINGS OFFSET FROM PERPENDICULAR WALL 3" OR CENTERED IN SPACE, UON
- 35. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY CONFLICTS OR OMISSIONS, ETC., SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMANCE OF ANY WORK IN QUESTION.
- 36. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE-PROTECTION, AND DESIGN/BUILD CONTRACTORS AND SUBMIT ALL DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- 37. THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL SHOP DRAWINGS, FOR FABRICATED ITEMS, CATALOG CUTS OF ALL FIXTURES AND EQUIPMENT, AND SAMPLES OF ALL FINISHES CALLED FOR TO THE ARCHITECT FOR APPROVAL TWO (2) WEEKS PRIOR RELEASE FOR FABRICATION / PURCHASING.
- 38. WHERE INDICATED, REFER TO ENLARGED PLANS FOR WALL TYPES, DIMENSION, SPOT ELEVATIONS AND DETAIL REFERENCES
- 39. PROVIDE REQUIRED PROTECTION FOR THROUGH PENETRATION AND MEMBRANE PENETRATIONS OF FIRE-RESISTANCE-RATED WALL ASSEMBLIES (CBC 714.3) AND RESISTANCE RATED FLOOR/CEILING HORIZONTAL ASSEMBLIES (CBC 714.4)

FIRE PROTECTION NOTES

2. FIRE SPRINKLER DESIGN/BUILD CONTRACTOR TO PROVIDE AT LEAST THREE COPIES OF SHOP QUALITY

1. ALL FIRE SPRINKLER WORK SHALL COMPLY WITH NFPA 13, LATEST EDITION, AND THE 2022 FIRE CODE.

DRAWINGS, HYDRAULIC CALCULATIONS (IF OF HYDRAULIC DESIGN), PERMIT APPLICATION AND FEES TO

THE CITY BUILDING DEPARTMENT FOR REVIEW PRIOR TO CONSTRUCTION. 3. A SYSTEM TEST ON NEW OR MODIFIED FIRE SPRINKLER SHALL BE WITNESSED BY THE CITY FIRE PREVENTION DEPARTMENT PRIOR TO ANY PORTION BEING CONCEALED. GIVE AT LEAST 48 HOURS

4. A LICENSED FIRE PROTECTION CONTRACTOR SHALL PERFORM ALL DESIGNS, PROVIDE ALL MATERIALS AND LABOR TO MODIFY EXISTING, AND ADD NEW SPRINKLER SYSTEM TO ACCOMMODATE THE NEW

5. THE QUANTITIES, LOCATION, AND SIZES OF THE PROPOSED NEW AND RELOCATED HEADS, PIPING AND FIRE HOSE CABINETS, IF SHOWN, ARE FOR REFERENCE ONLY. THE LICENSED FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE THE EXISTING SYSTEM AND DETERMINE THE EXACT QUANTITIES, LOCATIONS AND SIZES OF THE COMPLETE NEW AND MODIFIED SPRINKLER SYSTEM OVER THE AFFECTED AREA, I.E. HEADS, PIPING, FIRE HOSE CABINETS, ETC.

- 6. THE FIRE SPRINKLER SYSTEM SHALL BE A WET-PIPE CALCULATED SYSTEM.
- 7. SPRINKLER SHALL BE INSTALLED ABOVE AND BELOW CEILING, UNDER CANOPIES AND OVERHANGS, AND ALL OTHER AREAS AS REQUIRED BY CODE AND THE LOCAL ADOPTIVE ORDINANCE.
- 8. FIRE EXTINGUISHERS SHALL BE PLACED SO THAT THE MAXIMUM TRAVEL DISTANCE IS 75 FEET. THE LOCATIONS WILL BE FIELD REVIEWED BY THE INSPECTOR.
- 9. THE LOCATION OF THE KNOX BOX WILL BE FIELD REVIEWED BY THE FIRE INSPECTOR AND CHANGES/ADDITIONS MAY BE REQUIRED.
- 10. THE ON-SITE ACCESS WAYS AND INTERNAL DRIVES SHALL BE FIELD REVIEWED BY THE FIRE INSPECTOR TO VERIFY COMPLIANCE.
- 11. IF ALARMS/EMERGENCY WARNING SYSTEMS ARE REQUIRED BY THE BUILDING CODE OR NFPA, VISUAL ALARMS (STROBE LIGHTS) MUST BE INSTALLED IN THE FOLLOWING AREAS A) RESTROOMS
- B) CORRIDORS C) MEETING ROOMS

NOTICE FOR INSPECTION.

AREA MODIFICATIONS

D) ALL OTHER AREAS FOR COMMON USE

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NOT FOR

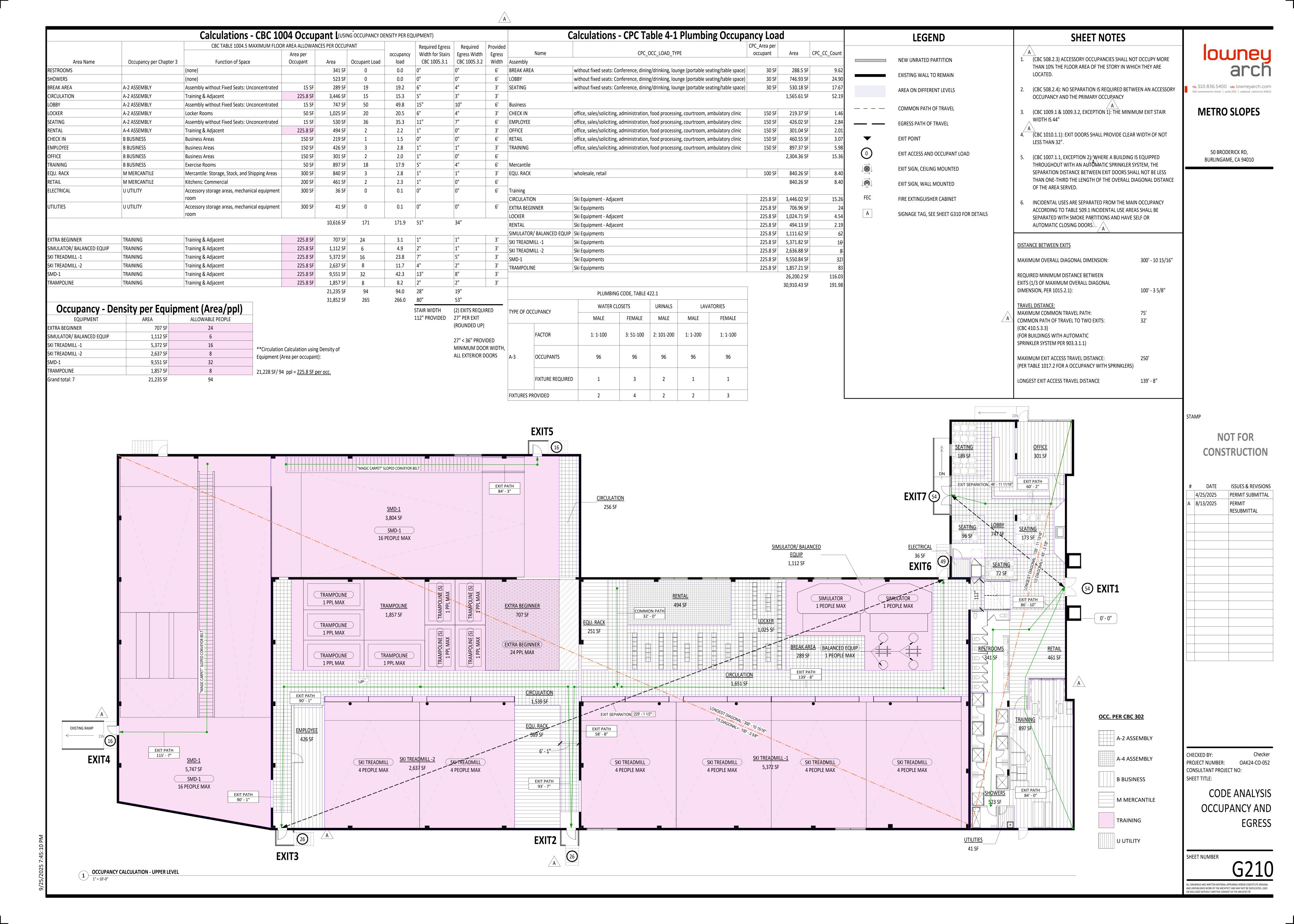
DATE ISSUES & REVISIONS 4/25/2025 PERMIT SUBMITTAL RESUBMITTAL

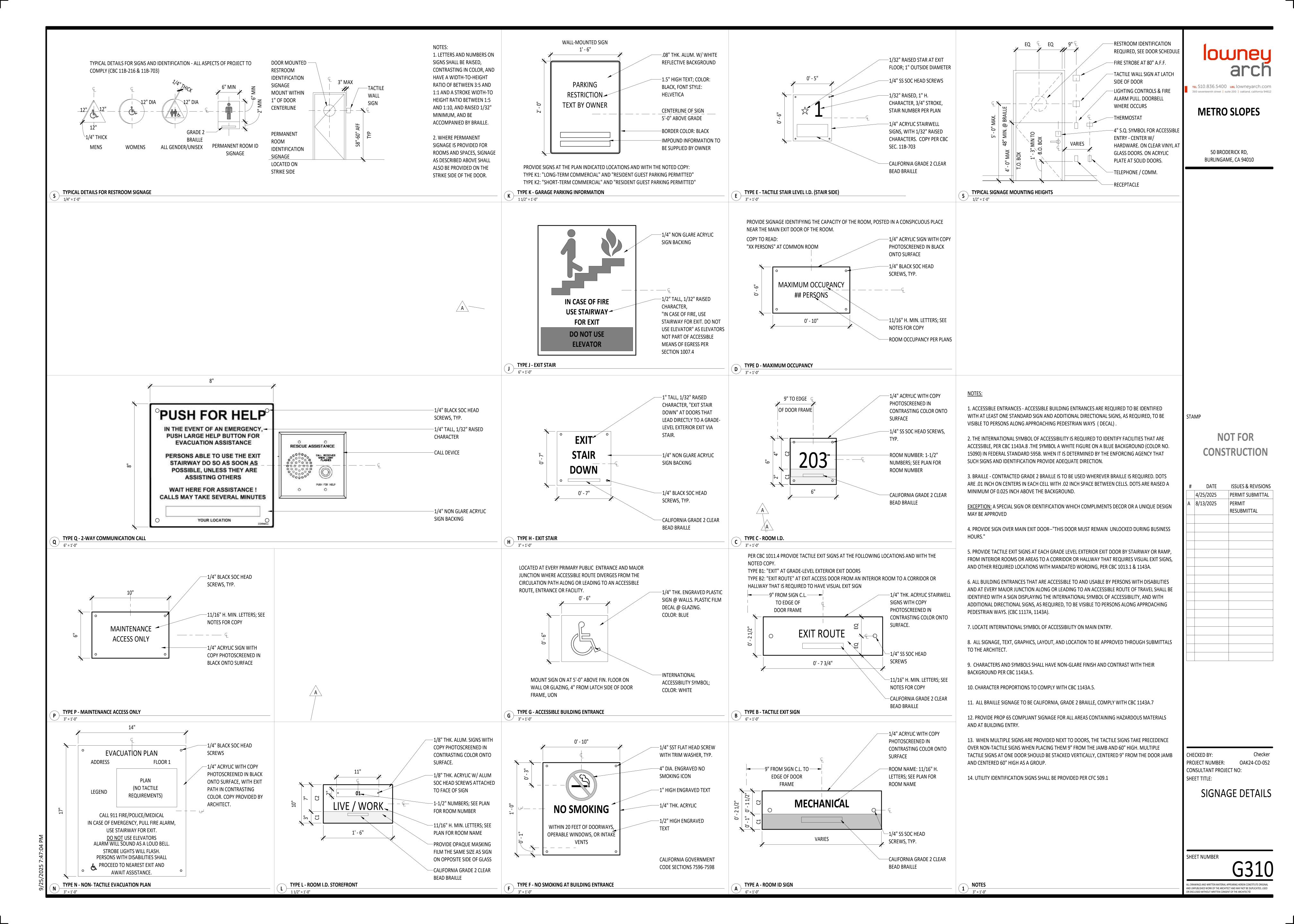
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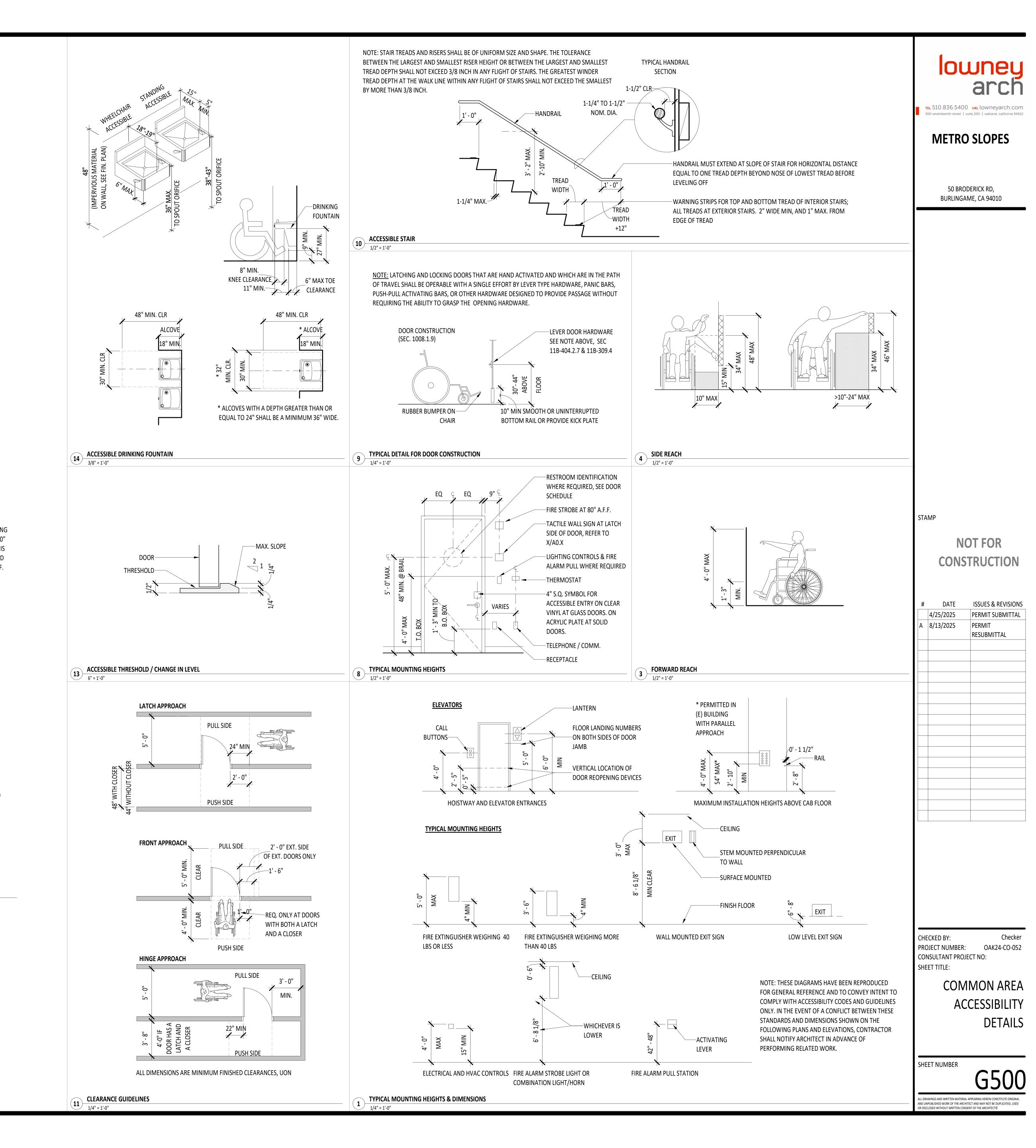
GENERAL NOTES

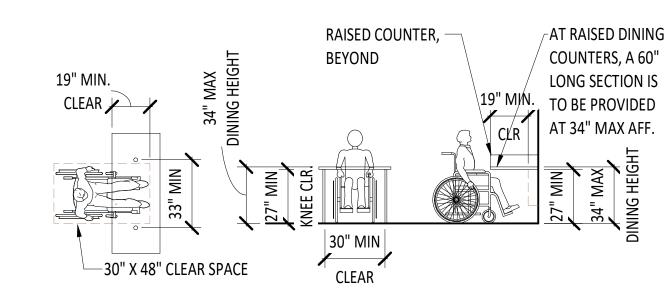
SHEET NUMBER

SHEET TITLE:









DINING TABLE REQUIREMENTS

- 1. WHERE DINING SURFACES ARE PROVIDED FOR THE CONSUMPTION OF FOOD OR DRINK, AT LEAST 5
 PERCENT OF THE SEATING SPACES AND STANDING SPACES AT THE DINING SURFACES SHALL BE
 ACCESSIBLE.
- 2. DINING SURFACES REQUIRED TO BE PROVIDED AS ACCESSIBLE SHALL BE DISPERSED THROUGHOUT THE SPACE OR FACILITY CONTAINING DINING SURFACES FOR EACH TYPE OF SEATING IN A FUNCTIONAL AREA.

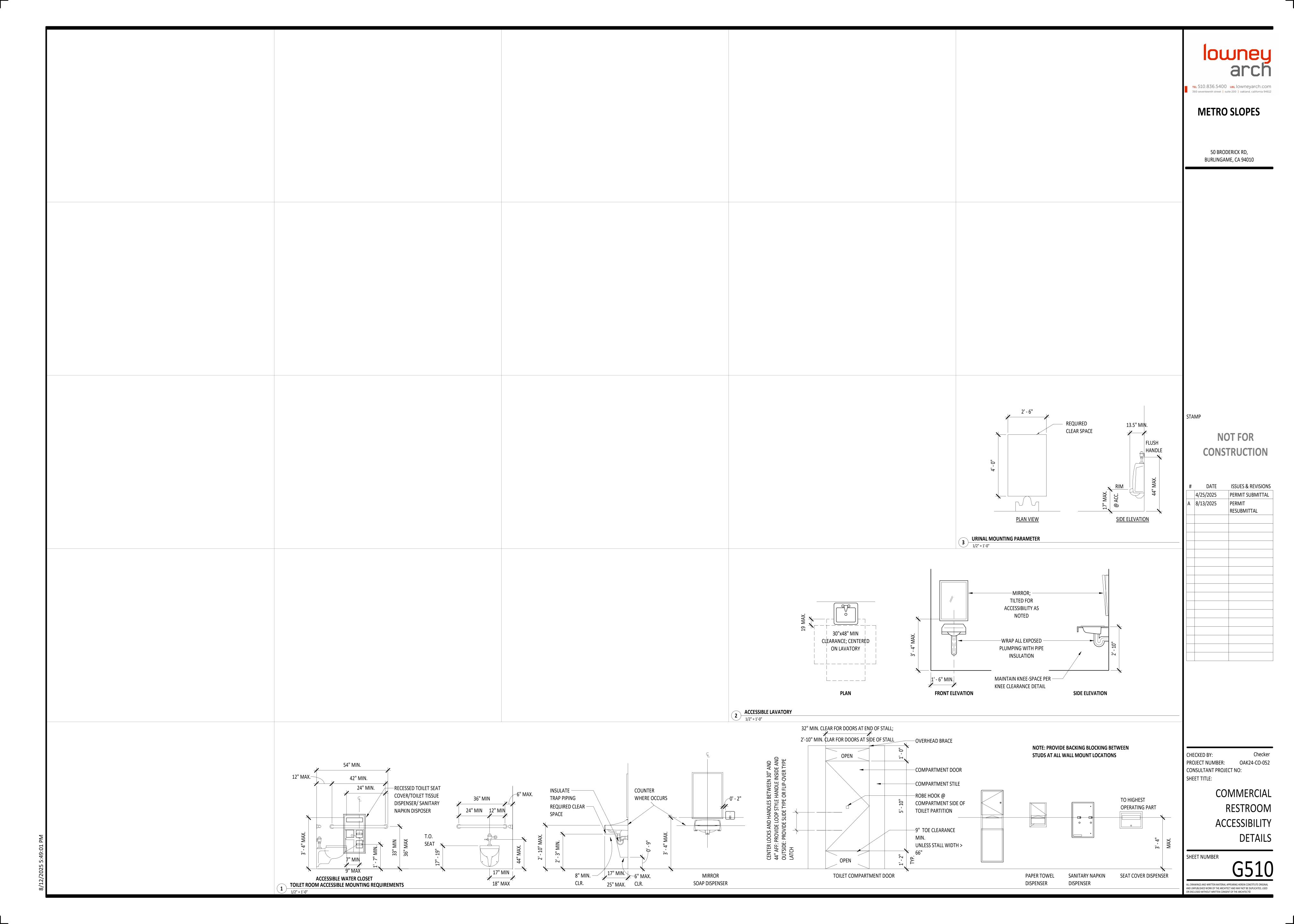
DINING TABLES:

- 1. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 11B-305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED.
- 2. AT DINING AND WORK SURFACES REQUIRED TO BE ACCESSIBLE, KNEE CLEARANCE SHALL EXTEND 19 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND.
- 3. THE TOPS OF DINING SURFACES AND WORK SURFACES SHALL BE 28 INCHES MINIMUM AND 34
- INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
 4. WHERE FOOD OR DRINK IS SERVED FOR CONSUMPTION AT A COUNTER EXCEEDING 34 INCHES IN HEIGHT, A PORTION OF THE MAIN COUNTER 60 INCHES MINIMUM IN LENGTH SHALL BE PROVIDED

DINING TABLE GUIDELINES

1/4" = 1'-0"

AS ACCESSIBLE.





California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF

LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the

larger common plan of development or sale must comply with the post-construction requirements detailed in the

applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff

(pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES

permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration

the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or

more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

= YES = NOT APPLICABLE 5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs. 5.106.5.3.4 Accessible EVCS. When EVSE is installed, accessible EVSC shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3. Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s). 5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N] Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply 1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading

spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE. 1. On a case-by-case basis where the local enforcing agency has determined compliance with this

section is not feasible based upon one of the following conditions: Where there is no local utility power supply. b. Where the local utility is unable to supply adequate power. c. Where there is evidence suitable to the local enforcing agency substantiating that

additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project. When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores [N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be

installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following: 1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future

installation of EVSE. 2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table

3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty

4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table

REQUIREMENTS FO	R MEDIUM- AND HEA	VY-DUTY EVSE [N	ıj
BUILDING TYPE	BUILDING TYPE BUILDING SIZE (SQ. FT.)		ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
	10,000 to 90,000	1 or 2	200
Grocery	10,000 to 90,000	3 or Greater	400
	Greater than 90,000	1 or Greater	400
	10 000 to 135 000	1 or 2	200
Retail	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
		1 or 2	200
Warehouse	20,000 to 256,000	3 or Greater	400
	Greater than 256 000	1 or Greater	400

Section 10-114 of the California Administrative Code; and 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in

4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.

UPLIGHT AND GLARE (BUG) RATINGS 1,2							
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4		
MAXIMUM ALLOWABLE BACKLIGHT RATING 3							
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit		
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	В4		
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	В3		
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2		
MAXIMUM ALLOWABLE							

			KEOFON. FAK		, CONTRACTOR, INSPE	
N. Y	MAXIMUM ALLOWABLE GLARE RATING 5 (G)					
	MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G1	G2	G3	G4
ı	MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G1	G1	G2
ı	MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G0	G1	G1
	MAXIMUM ALLOWABLE GLARE RATING ₅ (G)	N/A	G0	G0	G0	G1
	4 JEONA Liebbie - 7 0 15			7	1:- 11 - 0 - 116	

Code and Chapter 10 of the Callifornia Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture,

and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line. Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

1.See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways. 2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

Water collection and disposal systems. 3. French drains.

A-1, California Energy Code Tables 130.2-A and 130.2-B.

Water retention gardens. 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

3. Refer to the California Building Code for requirements for additions and alterations.

Exception: Additions and alterations not altering the drainage path. 5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years. **Exceptions:** Surface parking area covered by solar photovoltaic shade structures with roofing

materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu

2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY SECTION 5.201 GENERAL

standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors

5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency

SECTION 5.302 DEFINITIONS 5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and naintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

MANDATORY

PROJECT NUMBER: OAK24-CO-052

TEL 510.836.5400 URL lowneyarch.com 360 seventeenth street | suite 200 | oakland, california 94612

METRO SLOPES

50 BRODERICK RD,

BURLINGAME, CA 94010

DATE ISSUES & REVISIONS

8/13/2025

PERMIT SUBMITTAL

RESUBMITTAL

SHEET NUMBER

SHEET TITLE:

CAL GREEN

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used. 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for 301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC) SECTION 302 MIXED OCCUPANCY BUILDINGS **302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. **SECTION 303 PHASED PROJECTS** 303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply. **303.1.1 Initial Tenant improvements.** The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations. ABBREVIATION DEFINITIONS: Department of Housing and Community Development California Building Standards Commission Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development Low Rise High Rise Additions and Alterations NONRESIDENTIAL MANDATORY MEASURES **DIVISION 5.1 PLANNING AND DESIGN SECTION 5.101 GENERAL** The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties. **SECTION 5.102 DEFINITIONS** 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire. LOW-EMITTING AND FUEL EFFICIENT VEHICLES. ligible vehicles are limited to the following: 1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962. 2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D. NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors. **VANPOOL VEHICLE.** Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing. Note: Source: Vehicle Code, Division 1, Section 668 ZEV. Any vehicle certified to zero-emission standards. SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures: 5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control 5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs. 1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, a. Scheduling construction activity during dry weather, when possible. b. Preservation of natural features, vegetation, soil, and buffers around surface waters. c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect slopes. f. Protection of storm drain inlets (gravel bags or catch basin inserts). . Perimeter sediment control (perimeter silt fence, fiber rolls). Sediment trap or sediment basin to retain sediment on site. Stabilized construction exits. Wind erosion control. Other soil loss BMPs acceptable to the enforcing agency. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following: Material handling and waste management. c. Building materials stockpile management. d. Management of washout areas (concrete, paints, stucco, etc.). Control of vehicle/equipment fueling to contractor's staging area. Vehicle and equipment cleaning performed off site. Spill prevention and control. Other housekeeping BMPs acceptable to the enforcing agency.

through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency. Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development. 5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2 5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter. with planned off-street loading spaces. **5.106.4.1.1 Short-term bicycle parking.** If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack. **Exception:** Additions or alterations which add nine or less visitor vehicular parking spaces. **5.106.4.1.2 Long-term bicycle parking.** For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. **5.106.4.1.3** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility. **5.106.4.1.4** For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. 5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following: Covered, lockable enclosures with permanently anchored racks for bicycles; Lockable bicycle rooms with permanently anchored racks; or Lockable, permanently anchored bicycle lockers. TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER **Note:** Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates. 5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections **5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building. 5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or Lockable, permanently anchored bicycle lockers. 5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code. 1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions: a. Where there is no local utility power supply b. Where the local utility is unable to supply adequate power. c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project. 2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section 5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following 1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving

Greater than 256,000 1 or Greater 5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10,

Building facade meeting the requirements in Table 140.7-B of the California Energy Code. Part 6.

4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	В3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR

Luminaires with less than 6,200 initial luminaire lumens. TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT,

ì ' ' I					
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	В4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	В3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR

0-9 0 10-25 26-50 2 51-75 76-100 4 25

PROVIDED WITH EVSE)^: 151-200 35

> Where there is insufficient electrical supply. 2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

20% of total1

the area, and shall terminate in close proximity to the proposed location of the EV capable

and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be

2. A service panel or subpanel (s) shall be provided with panel space and electrical load

4. The service panel or subpanel circuit directory shall identify the reserved overcurrent

complying with any applicable minimum parking space requirements established by an enforcement

NUMBER OF REQUIRED EV

CAPABLE SPACES

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of

capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.

3. The electrical system and any on-site distribution transformers shall have sufficient capacity

protective devices space(s) as "EV CAPABLE". The raceway termination location shall be

used to serve multiple EV charging spaces.

to supply full rated amperage at each EV capable space.

permanently and visibly marked as "EV CAPABLE."

agency. See vehicle Code Section 22511.2 for further details.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be

accumulatively supplied to the EV charger. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the

permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is

NUMBER OF EVCS (EV

CAPABLE SPACES

25% of EV capable spaces1

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL

PARKING SPACES

201 AND OVER

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLE BUILDING STANDARDS (CALGREEN BUILDING STANDARDS (CALGREEN BUILDING STANDARDS (CALGREEN BUILDING STANDARD



efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of

echniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet SECTION 5.303 INDOOR WATER USE **5.410.4.4 Reporting.** After completion of testing, adjusting and balancing, provide a final report of testing and over, building commissioning shall be included in the design and construction processes of the building project to 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections signed by the individual responsible for performing these services. verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of 5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections **5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related 5.410.2 through 5.410.2.6 shall apply. 1. For each individual leased, rented or other tenant space within the building projected to consume ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. **5.410.4.5.1 Inspections and reports.** Include a copy of all inspection verifications and reports required ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water by the enforcing agency. BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the according to design quantities. a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). Commissioning requirements shall include: DIVISION 5.5 ENVIRONMENTAL QUALITY Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW). Owner's or Owner representative's project requirements. process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements. Basis of design. **5.501.1 SCOPE.** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that **5.303.1.2 Excess consumption.** A separate submeter or metering device shall be provided for any tenant Commissioning measures shown in the construction documents. are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. within a new building or within an addition that is projected to consume more than 1,000 gal/day. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food Commissioning plan. Functional performance testing. soiled paper waste that is mixed in with food waste. SECTION 5.502 DEFINITIONS Documentation and training. 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and **5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) **TEST.** A procedure to determine quantitative performance of a system or equipment Commissioning report. urinals) and fittings (faucets and showerheads) shall comply with the following: ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT **5.303.3.1 Water Closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local Unconditioned warehouses of any size. Specification for Tank-Type toilets. using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting ordinance, whichever is more stringent. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within adjustments have been made. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. two reduced flushes and one full flush. 1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure. of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. 5.303.3.2 Urinals. the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit. Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not 5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven provide heating and or air conditioning COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), rain to prevent water intrusion into buildings as follows: except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm Informational Notes: 5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water not exceed 0.5 gallons per flush. intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium such openings plus at least one of the following: commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for 5.303.3.3 Showerheads. [BSC-CG] density fiberboard, "Composite wood products" does not include hardboard, structural plywood, structural panels, qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or An installed awning at least 4 feet in depth. performance tests or to adjust and balance systems. gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). The door is protected by a roof overhang at least 4 feet in depth. WaterSense Specification for Showerheads. The door is recessed at least 4 feet. 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls Note: See CCR, Title 17, Section 93120.1. must be performed in compliance with the California Energy Code. Other methods which provide equivalent protection. **5.303.3.3.2 Multiple showerheads serving one shower.** When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.). 5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and allow only one shower outlet to be in operation at a time. requirements of the building appropriate to its phase shall be documented before the design phase of the **DECIBEL (db).** A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure. **Note:** A hand-held shower shall be considered a showerhead. project begins. This documentation shall include the following: SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND sound power, sound intensity) with respect to a reference quantity. Environmental and sustainability goals. Building sustainable goals. **ELECTRIC VEHICLE (EV).** An automotive-type vehicle for on-road use, such as passenger automobiles, buses, 3. Indoor environmental quality requirements. 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor 4. Project program, including facility functions and hours of operation, and need for after hours non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or .303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not meet a local construction and demolition waste management ordinance, whichever is more stringent. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, more than 0.5 gallons per minute at 60 psi. Equipment and systems expectations. off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground Building occupant and operation and maintenance (O&M) personnel expectations. 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and support equipment, tractors, boats, and the like, are not included. 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 demolition waste management ordinance, submit a construction waste management plan that: gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate 5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles. but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons the OPR shall be completed at the design phase of the building project. The Basis of Design document shall 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient cover the following systems: usage, recycling, reuse on the project or salvage for future use or sale. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, 1. Renewable energy systems. power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring gallons per minute/20 [rim space (inches) at 60 psi]. Landscape irrigation systems. . Identifies diversion facilities where construction and demolition waste material collected will be taken. and the electric vehicle. Water reuse system. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle. by weight or volume, but not by both. ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as 5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to the fluctuating noise level integrated over the time of period of interest. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a document how the project will be commissioned. The commissioning plan shall include the following: 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. 1. General project information. documentation that the percentage of construction and demolition waste material diverted from the landfill EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may Commissioning goals. not be divided or have grade separations at intersections. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve . Systems to be commissioned. Plans to test systems and components shall include: a. An explanation of the original design intent Note: The owner or contractor shall make the determination if the construction and demolition waste material FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. b. Equipment and systems to be tested, including the extent of tests. will be diverted by a waste management company. 5.303.3.4.6 Pre-rinse spray value Functions to be tested When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse d. Conditions under which the test shall be performed. Exceptions to Sections 5.408.1.1 and 5.408.1.2: Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference Measurable criteria for acceptable performance. (d)(7), and shall be equipped with an integral automatic shutoff. compound with a GWP of one. Commissioning team information. Excavated soil and land-clearing debris. 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the FOR REFERENCE ONLY: The following table and code section have been reprinted from the California facilities capable of compliance with this item do not exist. Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section ntergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of 1605.3 (h)(4)(A). 5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14. installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing TABLE H-2 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a each of the building components tested, the testing methods utilized, and include any readings and adjustments hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency. GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates 5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, necessary and shall be accessible during construction for examination by the enforcing agency. Title 8, Section 5142, and other related regulations. with a radius 1.5 times the pipe diameter. MAXIMUM FLOW RATE (gpm) [spray force in ounce force (ozf)] LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than **5.410.2.5.1 Systems manual. [N]** Documentation of the operational aspects of the building shall be Product Class 1 (≤ 5.0 ozf) 1.00 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, completed within the systems manual and delivered to the building owner or representative. The 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" sec.82.3 (as amended March 10, 2009). 1.20 Product Class 2 (> 5.0 ozf and \leq 8.0 ozf) systems manual shall include the following located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-1. Site information, including facility description, history and current requirements. Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999. Product Class 3 (> 8.0 ozf) 1.28 Site contact information. 3. Basic operations and maintenance, including general site operating procedures, basic 2. Mixed construction and demolition debris processors can be located at the California Department of MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. troubleshooting, recommended maintenance requirements, site events log. Resources Recycling and Recovery (CalRecycle). compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to 4. Major systems. hundreths of a gram (g O³/g ROC). **5.303.4.1 Food Waste Disposers.** Disposers shall either modulate the use of water to no more than 1 gpm Site equipment inventory and maintenance notes. 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no 6. A copy of verifications required by the enforcing agency or this code. provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited 7. Other resources and documentation, if applicable. article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of Note: This code section does not affect local jurisdiction authority to prohibit or require disposer Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste product (excluding container and packaging). naterials shall be included in the construction documents. **5.410.2.5.2 Systems operations training. [N]** A program for training of the appropriate maintenance **PSIG.** Pounds per square inch, guage. 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California staff for each equipment type and/or system shall be developed and documented in the commissioning Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/ Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply report and shall include the following: **REACTIVE ORGANIC COMPOUND (ROC).** Any compound that has the potential, once emitted, to contribute to to new fixtures in additions or areas of alteration to the building. System/equipment overview (what it is, what it does and with what other systems and/or 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated ozone formation in the troposphere. equipment it interfaces). vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed 2. Review and demonstration of servicing/preventive maintenance. material may be stockpiled on site until the storage site is developed. SCHRADER ACCESS VALVES. Access fittings with a valve core installed. in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701. Review of the information in the Systems Manual. of the California Plumbing Code and in Chapter 6 of this code. **Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. 4. Review of the record drawings on the system/equipment. SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter. SECTION 5.304 OUTDOOR WATER USE 5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet design and construction phases of the building project shall be completed and provided to the owner or with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water If contamination by disease or pest infestation is suspected, contact the County Agricultural or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected Commissioner and follow its direction for recycling or disposal of the material. Efficient Landscape Ordinance (MWELO), whichever is more stringent. to remote compressor units or condensing units. 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with 5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of Food and Agriculture. (www.cdfa.ca.gov) vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or Title 23, Chapter 2.7, Division 2. hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) alteration subject to Section 303.1. 2. MWELO and supporting documents, including a water budget calculator, are available at: Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition https://www.water.ca.gov/. 5.410.4.2 (Reserved) included in that specific regulation is the one that prevails for the specific measure in question. 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including SECTION 5.503 FIREPLACES landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning 2.7. Division 2. Title 23. California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling **5.503.1.1 Woodstoves.** Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the **5.410.4.2 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be prescriptive measures contained in Appendix D of the MWELO. Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources included for testing and adjusting shall include at a minimum, as applicable to the project: to meet the emission limits. Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or greater than 500 square feet. Renewable energy systems. 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, SECTION 5.504 POLLUTANT CONTROL resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. Landscape irrigation systems. 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if **5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate Water reuse systems. necessary to condition the building or areas of addition or alteration within the required temperature range for landscape area equal to or greater than 1,200 square feet. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space material and equipment installation. If the HVAC system is used during construction, use return air filters with a **5.410.4.3 Procedures.** Perform testing and adjusting procedures in accordance with manufacturer's Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE specifications and applicable standards on each system. 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is 5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, ccupied during alteration, at the conclusion of construction. Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and **5.410.4.3.1 HVAC balancing.** In addition to testing and adjusting, before a new space-conditioning Recycling Access Act of 1991 (Act). system serving a building or space is operated for normal use, the system shall be balanced in 5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of **SECTION 5.401 GENERAL** accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the 5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance

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Council National Standards or as approved by the enforcing agency.



TEL 510.836.5400 URL lowneyarch.com

360 seventeenth street | suite 200 | oakland, california 94612

RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,

neetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which

may enter the system.

50 BRODERICK RD,

BURLINGAME, CA 94010

METRO SLOPES

DATE ISSUES & REVISIONS

PERMIT SUBMITTAL

8/13/2025 RESUBMITTAL

PROJECT NUMBER: OAK24-CO-052 CONSULTANT PROJECT NO: SHEET TITLE:

> CAL GREEN NONRESIDENTIAL **MANDATORY**

SHEET NUMBER

DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT®

ND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED



the requirements of the following standards:

aerosol products as specified in subsection 2, below.

California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

TABLE 5.504.4.3 - CONT.

NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

with Section 94507.	
TABLE 5.504.4.1 - ADHESIVE VOC LIMIT _{1,2}	
Less Water and Less Exempt Compounds in Grams per Liter	
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet

comply with local or regional air pollution control or air quality management district rules where

applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such

products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall

(chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

Less Water and Less Exempt Compounds in Gram	ns per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT

DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

ALUMINUM ROOF COATINGS 400 BASEMENT SPECIALTY COATINGS 400 BITUMINOUS ROOF COATINGS 50 BITUMINOUS ROOF PRIMERS 350 BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETE CURING COMPOUNDS 350 CONCRETE MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FICOR COATINGS 350 FICOR COATINGS 350 FICOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ART'S COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 INDUSTRIAL MAINTENANCE COATINGS 420 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PICMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETERATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 <td< th=""><th>COATING CATEGORY</th><th>CURRENT VOC LIMIT</th><th>J I</th><th></th></td<>	COATING CATEGORY	CURRENT VOC LIMIT	J I	
BASEMENT SPECIALTY COATINGS 400 BITUMINOUS ROOF COATINGS 50 BITUMINOUS ROOF PRIMERS 350 BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FIRE RESISTIVE COATINGS 350 FLOOR COATINGS 100 FOORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 450 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PICMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 50 RECYCLED COATINGS 250	SPECIALTY COATINGS		」Ⅰ	
BITUMINOUS ROOF COATINGS 50 BITUMINOUS ROOF PRIMERS 350 BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETEMASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS 100 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 INDUSTRIAL MAINTENANCE COATINGS 120 MAGINESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PICMENTED COATINGS 100 METALLIC PICMENTED COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 RECYCLED COATINGS 50	ALUMINUM ROOF COATINGS	400	╛┃	
BITUMINOUS ROOF PRIMERS 350 BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETEMASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FILOR COATINGS 350 FILOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 450 MASTIC TEXTURE COATINGS 450 MASTIC TEXTURE COATINGS 450 MASTIC TEXTURE COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 50 RUST PREVENTATIVE COATINGS 50 SYELLACS: 550 CLEAR	BASEMENT SPECIALTY COATINGS	400	╛┫	
BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 MASTIC TEXTURE COATINGS 450 MASTIC TEXTURE COATINGS 450 MASTIC TEXTURE COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRETREATMENT WASH PRIMERS 420 PRETREATING SEALERS 350 REACTIVE PENETRATING SEALERS 350 REACTIVE PENETRATIVE COATINGS 250 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 <	BITUMINOUS ROOF COATINGS	50		
CONCRETE CURING COMPOUNDS 350 CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FLOOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRETREATMENT WASH PRIMERS 420 PRETREATING SEALERS, & UNDERCOATERS 100 RECYCLED COATINGS 250 ROOF COATINGS 250 RUST PREVENTATIVE COATINGS 50 SHELLACS: 100 CLEAR 730 OPAQUE <	BITUMINOUS ROOF PRIMERS	350		
CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 250 SHELLACS: 250 CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 <	BOND BREAKERS	350		
DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROF COATINGS 250 RUST PREVENTATIVE COATINGS 250 SHELLACS: 250 CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450	CONCRETE CURING COMPOUNDS	350	7 I	
DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FLOOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 250 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROF COATINGS 250 RUST PREVENTATIVE COATINGS 250 SHELLACS: 250 CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 </td <td>CONCRETE/MASONRY SEALERS</td> <td>100</td> <td>7 I</td> <td></td>	CONCRETE/MASONRY SEALERS	100	7 I	
FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FLOOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 250 ROF COATINGS 250 SHELLACS: CLEAR CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TUB & TILE REFINISH COATINGS 420<	DRIVEWAY SEALERS	50	7 I	
FIRE RESISTIVE COATINGS 350 FLOOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 250 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	DRY FOG COATINGS	150	1	
FLOOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 250 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILLE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	FAUX FINISHING COATINGS	350	1 	
FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR CIEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	FIRE RESISTIVE COATINGS	350	1 I	
GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TRAFFIC MARKING COATINGS 100 TUB & TILLE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	FLOOR COATINGS	100	1 I	
HIGH-TEMPERATURE COATINGS	FORM-RELEASE COMPOUNDS	250	1 l	
INDUSTRIAL MAINTENANCE COATINGS 250	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	1 I	
120	HIGH-TEMPERATURE COATINGS	420	1 I	
MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: 730 CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	INDUSTRIAL MAINTENANCE COATINGS	250	1 I	
MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: 730 CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	LOW SOLIDS COATINGS1	120	1 	
METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: 730 CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	MAGNESITE CEMENT COATINGS	450	1 I	
MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR COPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	MASTIC TEXTURE COATINGS	100	1 	
PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	METALLIC PIGMENTED COATINGS	500	1 	
PRIMERS, SEALERS, & UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	MULTICOLOR COATINGS	250	┤ 	
REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	PRETREATMENT WASH PRIMERS	420	┤ 	
RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	PRIMERS, SEALERS, & UNDERCOATERS	100	1 I	
ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS:	REACTIVE PENETRATING SEALERS	350	1 	
RUST PREVENTATIVE COATINGS 250 SHELLACS:	RECYCLED COATINGS	250	1 I	
SHELLACS: 730 CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	ROOF COATINGS	50	┤ 	
CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	RUST PREVENTATIVE COATINGS	250	1 I	_
OPAQUE 550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	SHELLACS:		1 I	
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES 250	CLEAR	730	┤ 	
STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	OPAQUE	550	1 ŀ	_
STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100	1	
SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	STAINS	250	┤ ┟	_
TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	STONE CONSOLIDANTS	450	┤ 	_
TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250	SWIMMING POOL COATINGS	340	┤ 	
WATERPROOFING MEMBRANES 250	TRAFFIC MARKING COATINGS	100	┤ 	
	TUB & TILE REFINISH COATINGS	420	┤ 	
			┤ 	
WOOD COATINGS 2/5	WOOD COATINGS	275	┤ 	
WOOD PRESERVATIVES 350			† 	
ZINC-RICH PRIMERS 340			┤ 	

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD,

ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. 5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of

the enforcing agency. Documentation may include, but is not limited to, the following: Manufacturer's product specification 2. Field verification of on-site product containers

All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 2017 (Emission testing method for California Specifications

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material 5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: Product certifications and specifications.

Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see

CCR, Title 17, Section 93120, et seg.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the

Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S 5. Other methods acceptable to the enforcing agency

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS ₁				
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MI	LLION			
PRODUCT	CURRENT LIMIT			
HARDWOOD PLYWOOD VENEER CORE	0.05			
HARDWOOD PLYWOOD COMPOSITE CORE 0.05				
PARTICLE BOARD 0.09				
MEDIUM DENSITY FIBERBOARD 0.11				
THIN MEDIUM DENSITY FIBERBOARD2 0.13				
 VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12 				
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).				

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission

5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms. (DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be

equipped with a carbon dioxide monitor or sensor that meets the following requirements: . The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable

When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility

personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a

record of previous carbon dioxide measurements of not less than 30 days duration. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than

SECTION 5.507 ENVIRONMENTAL COMFORT 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

subsections apply only to new construction 5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all

1. Within the 65 CNEL noise contour of an airport.

40 or OITC of 30 in the following locations:

1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible

2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element. 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or

fixed-guideway source as determined by the Noise Element of the General Plan. 5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of

at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). 5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does

not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation. **5.507.4.2.1 Site Features.** Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record. 5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant

spaces and public places shall have an STC of at least 40. Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY 5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not **5.508.1.2 Halons.** Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

keep vibration levels below 8 mils **5.508.2.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. **5.508.2.2.2.1 Chain tethers.** Chain tethers to fit ovr the stem are required for valves

Exception: Valves with seal caps that are not removed from the valve during stem

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver. 5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and

appropriate tracer gas to bring system pressure up to 300 psig minimum. **5.508.2.5.2 Leaks.** Check the system for leaks, repair any leaks, and retest for pressure using the same

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more

than a +/- one pound pressure change from 300 psig, measured with the same gauge. 5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper stallation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or pertification program. Uncertified persons may perform HVAC installations when under the direct supervision and esponsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

State certified apprenticeship programs.

Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building

performance contractors, and home energy auditors. 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate

homes in California according to the Home Energy Rating System (HERS).

BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a ertification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods cceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate

section or identified applicable checklist.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJEC

TEL 510.836.5400 URL lowneyarch.com

METRO SLOPES

360 seventeenth street | suite 200 | oakland, california 94612

50 BRODERICK RD, BURLINGAME, CA 94010

PERMIT SUBMITTAL 8/13/2025 RESUBMITTAL

PROJECT NUMBER: OAK24-CO-052 SHEET TITLE:

CAL GREEN NONRESIDENTIAL **MANDATORY**

SHEET NUMBER

SECTION 0110 - SUMMARY OF WORK

TENANT IMPROVEMENT

- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE THE WORK OF THIS CONTRACT WITH ALL WORK PERFORMED BY OTHERS INCLUDING BUT NOT LIMITED TO THE FIXTURE CONTRACTOR, SECURITY, LOSS PREVENTION AND KITCHEN VENDORS. THERE WILL BE NO ALLOWANCE FOR THE FAILURE
- OF THE CONTRACTOR TO INCORPORATE ALL COSTS ASSOCIATED WITH THE INTERFACE BETWEEN THE VARIOUS SCOPES OF WORK ON THE PROJECT.
- COMPLY WITH CODES, ORDINANCES, RULES, REGULATION, ORDERS AND OTHER LEGAL REQUIREMENTS OF PUBLIC AUTHORITIES WHICH GOVERN THE PERFORMANCE OF THE WORK.

2. UNLESS SPECIFICALLY NOTED OTHERWISE, PROVIDE AND PAY FOR LABOR, MATERIALS, EQUIPMENT, TOOLS AND MACHINERY.

4. PROMPTLY SUBMIT WRITTEN NOTICE TO ARCHITECT OF ANY OBSERVED VARIANCES OF CONTRACT DOCUMENTS FROM LEGAL REQUIREMENTS. 5. USE OF SITE IS LIMITED TO AREAS DESIGNATED BY THE LANDLORD. CONTRACTOR RECOGNIZES THAT THE CONSTRUCTION SITE IS LOCATED AT AN

THE FOLLOWING DEFINITIONS APPLY TO THE WORK:

 "PROVIDE" MEANS TO FURNISH, FABRICATE, DELIVER, INSTALL AND ERECT, AND CONNECT, INCLUDING AL LABOR, MATERIALS, EQUIPMENT, APPARATUS, APPURTENANCES AND EXPENSES NECESSARY TO COMPLETE IN PLACE, READY FOR OPERATION AND USE, UNDER THE TERMS OF THE CONTRACT DOCUMENTS.

OPERATIONAL SHOPPING CENTER (MALL) AND THE RULES AND REGULATIONS IMPOSED BY THE MALL MANAGEMENT OF THE STORE WILL BE

- 2. "AS SHOWN", "AS DETAILED", "AS INDICATED" OR WORDS OF SIMILAR IMPORT MEAN AS INDICATED ON THE DRAWINGS.
- "APPROVED EQUAL", "OR EQUAL", "OR APPROVED EQUAL" MEANS AS APPROVED AND ACCEPTED BY THE ARCHITECT AS DEFINED IN SECTION 01600 OF THE SPECIFICATIONS.
- "SHALL" IS MANDATORY
- 5. "AS REQUIRED" MEANS AS REQUIRED BY THE CONTRACT DOCUMENTS.

ENFORCED BY THE CONTRACTOR SUBCONTRACTORS AND SUPPLIERS.

- 6. "AS NECESSARY" MEANS ESSENTIAL TO THE COMPLETION OF THE WORK.
- 7. "CONCEALED" MEANS EMBEDDED IN MASONRY, CONCRETE OR OTHER CONSTRUCTION, INSTALLED WITHIN FURRED SPACES, WITHIN A WALL/PARTITIONS OR ABOVE SUSPENDED CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
- 8. "EXPOSED" MEANS NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE.
- 9. "PRODUCT" MEANS ALL MATERIALS, SYSTEMS, AND EQUIPMENT.
- 10. "SECTION" MEANS SECTION OF THESE SPECIFICATIONS.
- 11. "OWNER" OR "TENANT" MEANS PHILZ COFFEE.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

- SUBMIT SHOP DRAWINGS, SAMPLES AND OTHER REQUIRED SUBMITTALS FOR THE PRODUCTS OR TRADES SPECIFIED ON THE DRAWINGS.
- SUBMIT 3 COPIES OF SHOP DRAWINGS.
- SUBMIT 3 SAMPLES, UNLESS SPECIFIED OTHERWISE.
- 4. SUBMITTALS SHALL BE SUFFICIENTLY COMPLETE IN TERMS OF INFORMATION, DETAIL AND DIMENSIONS SO AS TO REQUIRE ONLY MINIMAL REVIEW BY ARCHITECT.
- 5. REVISE INITIAL SHOP DRAWINGS AS REQUIRED AND RESUBMIT WHEN INSTRUCTED BY THE ARCHITECT. INDICATE ON DRAWINGS ANY CHANGES MADE OTHER THAN THOSE REQUESTED BY ARCHITECT.
- DISTRIBUTE APPROVED COPIES OF SHOP DRAWINGS AND PRODUCT DATA TO PROJECT RECORD DOCUMENTS FILE, AND TO SUBCONTRACTORS,
- SUPPLIER AND FABRICATOR, AS APPLICABLE. 7. MAINTAIN AT SITE, ONE RECORD COPY OF DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, CHANGE ORDERS, CONSTRUCTION CHANGE
- 8. DO NOT PERMANENTLY CONCEAL ANY WORK UNTIL REQUIRED INFORMATION HAS BEEN RECORDED.

DIRECTIVES, REQUESTS FOR INFORMATION, OTHER MODIFICATIONS TO CONTRACT, AND FIELD TEST RECORDS.

- KEEP RECORD DOCUMENTS CURRENT. LEGIBLY MARK TO RECORD ACTUAL CONSTRUCTION OF FIELD CHANGES OF DIMENSION AND DETAIL, CHANGES MADE BY CHANGE ORDER, FIELD CHANGE AUTHORIZATION AND NOTICES OF CLARIFICATION AND DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS.
- 10. SHOP DRAWINGS: MAINTAIN AS RECORD DOCUMENTS; LEGIBLY ANNOTATE SHOP DRAWINGS TO RECORD CHANGES MADE AFTER APPROVAL.

SECTION 01400 - PROJECT COORDINATION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROJECT COORDINATION. COORDINATE THE WORK OF ALL SUBCONTRACTORS IN CONJUNCTION WITH OWNER'S FIXTURE CONTRACTOR AND VENDORS.
- PREPARE DETAILED SCHEDULE OF OPERATIONS OF ALL SUBCONTRACTORS ON THE PROJECT AND MONITOR SCHEDULES AS WORK PROGRESSES
- 3. VERIFY THAT LABOR AND EQUIPMENT ARE ADEQUATE FOR THE WORK AND TO MAINTAIN THE SCHEDULE.
- 4. VERIFY THAT PRODUCT DELIVERIES ARE ADEQUATE TO MAINTAIN SCHEDULE.
- REPORT NON-COMPLIANCE TO OWNER, WITH RECOMMENDATION TO REMEDY.
- MAINTAIN COST ACCOUNTING RECORDS FOR AUTHORIZED WORK PERFORMED, ACTUAL COSTS FOR LABOR AND MATERIALS, AND OTHER WORK
- 7. REVIEW SUBCONTRACTOR'S REQUESTS FOR CHANGES AND FOR SUBSTITUTIONS; SUBMIT RECOMMENDATIONS TO OWNER AND PROCESS CHANGE
- 8. PERMITS AND FEES: VERIFY THAT SUBCONTRACTORS HAVE OBTAINED ALL PERMITS REQUIRED FOR INSPECTIONS AND TEMPORARY FACILITIES.
- INTERPRETATIONS OF CONTRACT DOCUMENTS: CONSULT WITH ARCHITECT TO OBTAIN INTERPRETATIONS. ASSIST IN RESOLUTION OF QUESTIONS WHICH ARISE. TRANSMIT WRITTEN INTERPRETATIONS TO CONCERNED PARTIES.
- 10. BE RESPONSIBLE FOR THE ACCURACY OF THE BUILDING LINES AND LEVELS. AS THE WORK PROCEEDS, VERIFY ALL LINES, LEVELS, AND DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT PROCEED UNTIL ALL ERRORS AND INCONSISTENCIES ARE CORRECTED.
- 11. ESTABLISH CONTROL POINTS, LINES AND BENCHMARKS ADEQUATE FOR THE USE OF ALL TRADES FOR REFERENCE SO THAT ALL PARTS OF THE WORK WILL BE ALIGNED AS SPECIFIED OR WITHIN THE TOLERANCES STANDARD WITH THE INDUSTRY, WHEN NOT SPECIFIED.
- 12. REMOVE, RE-ESTABLISH AND RELOCATE CONTROL POINTS, LINES AND BENCHMARKS AS NECESSITATED BY CONSTRUCTION PROGRESS. **SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS**
- 1. PROVIDE ALL CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS REQUIRED FOR THE PERFORMANCE OF THE WORK.
- 2. COSTS OF INSTALLATION, OPERATION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY FACILITIES SHALL BE BORNE BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- 3. PROVIDE TEMPORARY ELECTRIC POWER THROUGHOUT THE CONSTRUCTION PERIOD, SO THAT POWER CAN BE SECURED AT ANY DESIRED POINT WITHIN THE BUILDING WITH NOT MORE THAN A 100 FT. EXTENSION CORD.

PROVIDE LIGHTING FOR SAFE AND ADEQUATE WORKING CONDITIONS, SUFFICIENT FOR EACH TRADE TO PERFORM THEIR WORK TO STANDARD OF

- QUALITY SPECIFIED, NOTWITHSTANDING MORE STRINGENT LEGAL REQUIREMENTS.
- PROVIDE TEMPORARY TELEPHONE SERVICE FOR CONSTRUCTION NEEDS THROUGHOUT THE CONSTRUCTIONPERIOD.
- PROVIDE A VALID EMAIL FOR COMMUNICATION NEEDS THROUGHOUT THE CONSTRUCTION PERIOD.
- PROVIDE AND MAINTAIN TEMPORARY WATER SERVICES FOR DRINKING AND CONSTRUCTION PURPOSES FOR ALL PARTS OF THE WORK.
- PROVIDE WEATHER TIGHT ENCLOSURES, AND VENTILATING AS REQUIRED DURING CONSTRUCTION TO PROTECT INSTALLED WORK FROM DAMAGE, AND AS NECESSARY TO ENSURE SUITABLE WORKING CONDITIONS FOR THE CONSTRUCTION OPERATIONS OF ALL TRADES.
- MAINTAIN BUILDING TEMPERATURE AS SPECIFIED IN VARIOUS SECTIONS OF THESE SPECIFICATIONS, OR WHEN NOT SPECIFIED, AS RECOMMENDED BY THE MANUFACTURERS OF THE MATERIALS BEING INSTALLED.
- 10. PROVIDE BARRIER TO PREVENT DUST FROM ESCAPING INTO THE ADJACENT SPACES. MAINTAIN TEMPORARY PROTECTION AS LONG AS NEEDED. MEET ALL MALL AND LOCAL REQUIREMENTS.
- 11. PROVIDE AND MAINTAIN ALL MISCELLANEOUS TEMPORARY CONSTRUCTION AIDS REQUIRED FOR PROPER EXECUTION OF THE WORK, SUCH AS, BUT NOT LIMITED TO, LADDERS, SCAFFOLDS AND HOISTS AND BARRICADES.

12. THE OWNER MAY PROVIDE SUCH WATCHMAN SERVICE AS HE DEEMS NECESSARY TO PROTECT HIS INTEREST DURING THE PROGRESS OF THE WORK. ANY PROTECTION PROVIDED BY THE OWNER WILL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE SECURITY OF THE

WORK AND THE ACCEPTANCE THEREOF. 13. THE CONTRACTOR SHALL EMPLOY SUCH WATCHMAN SERVICE AS HE MAY DEEM NECESSARY TO PROPERLY PROTECT AND SAFEGUARD THE WORK.

THE OWNER SHALL NOT IN ANY WAY BE LIABLE OR RESPONSIBLE FOR THE DAMAGE OR LOSS TO THE WORK DUE TO TRESPASS OR THEFT.

- 14. PROVIDE PROTECTION FOR MATERIALS, TOOLS AND EQUIPMENT EMPLOYED ON THE PROJECT INCLUDING THE WORKMEN TOOLS. THE OWNER SHALL NOT BE HELD TO HAVE INCURRED ANY LIABILITY FOR LOSS OF, AND DAMAGE TO, MATERIALS, TOOLS AND EQUIPMENT OF THE CONTRACTOR, OR OF THOSE EMPLOYED BY HIM, BY CONTRACT OR OTHERWISE.
- 15. PROVIDE AND MAINTAIN IN GOOD CONDITION ALL PROTECTIVE MEASURES AS MAY BE REQUIRED TO ADEQUATELY PROTECT THE PUBLIC FROM HAZARDS RESULTING FROM THE WORK AND TO EXCLUDE UNAUTHORIZED PERSONS FROM THE WORK. WHEN REGULATED BY BUILDING CODE AND OTHER PUBLIC AUTHORITIES HAVING JURISDICTION, SUCH LEGAL REQUIREMENTS FOR PROTECTION SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS; BE RESPONSIBLE FOR THE PROTECTION IN EXCESS OF SUCH REQUIREMENTS AS REQUIRED.
- 16. COMPLY WITH ALL POLLUTION CONTROL REGULATIONS IN EFFECT AT SITE FOR ALL MATERIALS, EQUIPMENT AND WORK PROCEDURES USED ON THE
- 17. COMPLY WITH REQUIREMENTS OF THE MALL AND REGULATORY AGENCIES HAVING JURISDICTION. OBTAIN AND PAY FOR PERMITS REQUIRED BY

SECTION 01600 - PRODUCT REQUIREMENTS

- TRANSPORT, DELIVER, HANDLE, AND STORE MATERIALS AND EQUIPMENT TO PREVENT THE INTRUSIONS OF FOREIGN MATTER, MOISTURE, AND TO
- PROVIDE PACKAGED MATERIAL IN MANUFACTURER'S ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS INTACT UNTIL INCORPORATING INTO THE WORK. WRAPPED OR BUNDLED MATERIALS SHALL CLEARLY BEAR THE MANUFACTURER'S NAME AND TRADE MARK.
- REMOVE DAMAGED OR OTHERWISE UNSUITABLE MATERIAL AND EQUIPMENT PROMPTLY FROM THE SITE. DO NOT INSTALL DAMAGED MATERIALS.
- INSPECT PRODUCTS UPON DELIVERY TO ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS, AND TO ENSURE THAT PRODUCTS ARE UNDAMAGED AND PROPERLY PROTECTED.
- SCHEDULE DELIVERY TO MINIMIZE LONG-TERM STORAGE AT THE SITE AND TO PREVENT OVERCROWDING OF CONSTRUCTION SPACES.
- PROTECT ALL FINISHED SURFACES, INCLUDING FLOORS, JAMBS AND SOFFITS OF ALL OPENINGS USED AS PASSAGEWAYS OR THROUGH WHICH MATERIALS AND EQUIPMENT MUST TRAVEL.
- KEEP FINISHED SURFACES CLEAN AND UNMARRED UNTIL THE DATE OF ACCEPTANCE

RESPECTS TO THAT SPECIFIED.

- PRODUCTS SHALL BE NEW, OF THE TYPE SPECIFIED, AND FURNISHED IN AMPLE QUANTITIES TO FACILITATE PROPER AND TIMELY EXECUTION OF THE
- FOR PRODUCTS SPECIFIED BY NAMING ONE OR MORE PRODUCTS, BUT INDICATING THE OPTION OF SELECTING EQUIVALENT PRODUCTS BY STATING "OR EQUAL" OR "OR APPROVED EQUAL", BEFORE OR AFTER SPECIFIED PRODUCT, CONTRACTOR MUST SUBMIT A REQUEST, AS REQUIRED FOR SUBSTITUTION, FOR ANY PRODUCT NOT SPECIFICALLY NAMED.
- THE OWNER WILL CONSIDER WRITTEN REQUESTS FROM CONTRACTOR FOR SUBSTITUTIONS FOR PRODUCTS OTHER THAN THOSE SPECIFIED. IN MAKING REQUEST FOR SUBSTITUTION, CONTRACTOR REPRESENTS:
- 10.1. THEY HAVE PERSONALLY INVESTIGATED PROPOSED PRODUCT OR METHOD, AND DETERMINED THAT IT IS EQUAL OR SUPERIOR IN ALL
- 10.2. THEY WILL PROVIDE THE SAME WARRANTY FOR SUBSTITUTION OF PRODUCT OR METHOD SPECIFIED. 10.3. THEY WILL COORDINATE INSTALLATION OF ACCEPTED SUBSTITUTION INTO WORK, MAKING SUCH CHANGES AS MAY BE REQUIRED FOR
- WORK TO BE COMPLETE IN ALL RESPECTS. 10.4. THEY WAIVE ALL CLAIMS FOR ADDITIONAL COSTS RELATED TO SUBSTITUTION WHICH CONSEQUENTLY BECOMES APPARENT.
- SUBSTITUTIONS WILL NOT BE CONSIDERED IF THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PROJECT DATA SUBMITTALS WITHOUT FORMAL WRITTEN REQUEST, OR IF ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISION OF CONTRACT DOCUMENTS.
- KEEP PREMISES AND PUBLIC PROPERTIES FREE FROM ACCUMULATIONS OF WASTE, DEBRIS, AND RUBBISH, CAUSED BY CONSTRUCTION OPERATIONS.
- STANDARDS: MAINTAIN PROJECT IN ACCORD WITH STATE AND LOCAL SAFETY AND INSURANCE STANDARDS.
- STORE VOLATILE WASTES IN COVERED METAL CONTAINERS, AND REMOVE FROM PREMISES DAILY.
- PREVENT ACCUMULATION OF WASTES WHICH CREATE HAZARDOUS CONDITIONS.
- PROVIDE ADEQUATE VENTILATION DURING USE OF VOLATILE OR NOXIOUS SUBSTANCES. DO NOT DISPOSE OF VOLATILE WASTES SUCH AS MINERAL SPIRITS, OIL, OR PAINT THINNER IN STORM OR SANITARY DRAINS. STORE IN CONTAINERS
- WITH TIGHT-FITTING LIDS AND REMOVE TO LEGAL DUMP SITE. AT LEAST ONCE A WEEK, OR MORE OFTEN IF REQUIRED, CLEAN SITE AND PUBLIC PROPERTIES, AND DISPOSE OF WASTE MATERIALS, DEBRIS AND
- RUBBISH OFF THE SITE IN A LEGAL MANNER. REMOVE COMBUSTIBLE MATERIALS SUCH AS PAPER AND CARDBOARD DAILY.
- PROVIDE ON-SITE CONTAINERS, LOCATED WHERE DIRECTED BY THE MALL OR LANDLORD, FOR COLLECTION OF WASTE MATERIALS, DEBRIS AND
- VACUUM CLEAN INTERIOR AREAS WHEN READY TO BE PAINTED.
- SCHEDULE CLEANING OPERATIONS SO THAT DUST AND OTHER CONTAMINANTS RESULTING FROM CLEANING PROCESS WILL NOT FALL ON WET. NEWLY PAINTED SURFACES.
- AT COMPLETION OF WORK REMOVE WASTE MATERIALS, RUBBISH, TOOLS, EQUIPMENT AND SURPLUS MATERIALS.
- EMPLOY EXPERIENCED WORKMEN, OR PROFESSIONAL CLEANERS, FOR FINAL CLEANING IN PREPARATION FOR OCCUPANCY. CLEAN ALL EXPOSED SURFACES; LEAVE AREA CLEAN AND READY FOR OCCUPANCY.
- REMOVE GREASE, DUST, DIRT, STAINS, LABELS, FINGERPRINTS AND OTHER FOREIGN MATERIALS FROM SIGHT-EXPOSED FINISHED SURFACES; POLISH BRIGHT SURFACES TO SHINE FINISH.
- 14. REPAIR, PATCH AND TOUCH-UP MARRED SURFACES TO SPECIFIED FINISH TO MATCH ADJACENT SURFACES.
- 15. KEEP PROJECT CLEAN UNTIL IT IS OCCUPIED BY OWNER. SECTION 01700 - CLEANING

16. G.C. SHALL CLEAN AND WAX VINYL COMPOSITION TILE FINISH BEFORE PUNCH.

SECTION 01800 - PROJECT CLOSEOUT

- CONTRACTOR SHALL SUBMIT WRITTEN CERTIFICATION THAT THE WORK HAS BEEN COMPLETED IN ACCORD WITH CONTRACT DOCUMENTS AND THA ALL EQUIPMENT AND SYSTEMS HAVE BEEN TESTED IN OWNER'S PRESENCE AND ARE OPERATIONAL.
- SUBMIT RECORD DOCUMENTS AS SPECIFIED IN SECTION 01300.
- SUBMIT WARRANTIES STARTING ON DATES OF SUBSTANTIAL COMPLETION.
- DELIVER CERTIFICATES OF INSPECTION FOR MECHANICAL AND ELECTRICAL WORK, CERTIFICATE OF OCCUPANCY, AND OTHER EVIDENCE OF COMPLIANCE WITH REQUIREMENTS OF GOVERNING AUTHORITIES.
- DELIVER CERTIFICATE OF INSURANCE FOR PRODUCTS AND COMPLETED OPERATIONS.
- BIND OPERATION AND MAINTENANCE MANUALS IN DURABLE PLASTIC BINDERS.
- 6.1. PROVIDE COMPLETE INSTRUCTIONS REGARDING OPERATION AND MAINTENANCE OF ALL EQUIPMENT INVOLVED, INCLUDING BUT NOT
- LIMITED TO, START-UP AND SHUT-DOWN PROCEDURES, AND SAFETY PRECAUTIONS. 6.2. PROVIDE COMPLETE NOMENCLATURE OF ALL REPLACEABLE PARTS, THEIR PART NUMBERS, CURRENT COST, AND NAME AND ADDRESS OF
- NEAREST VENDOR OF PARTS. 6.3. PROVIDE COPY OF GUARANTEES AND WARRANTIES ISSUED BY THE EQUIPMENT MANUFACTURERS. 6.4. PROVIDE COPY OF THE APPROVED SHOP DRAWINGS, AS APPLICABLE TO THE CONTENT OF THE MANUAL, WITH ALL DATA CONCERNING
- CHANGES MADE DURING CONSTRUCTION. 6.5. UNLESS OTHERWISE SPECIFIED, PROVIDE ONE COPY OF EACH MANUAL.
- SUBMIT CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS, AND CLAIMS AND RELEASE OF LIENS FROM ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS. SUBMITTALS SHALL BE DULY EXECUTED BEFORE DELIVERY TO OWNER.
- SUBMIT FINAL STATEMENT OF ACCOUNTING TO OWNER

SECTION 01900 - WARRANTIES AND BONDS

- ASSEMBLE WARRANTIES, BONDS, AND SERVICE AND MAINTENANCE CONTRACTS EXECUTED BY EACH OF THE RESPECTIVE MANUFACTURERS, SUPPLIERS, AND SUBCONTRACTORS.
- SUBMIT 2 ORIGINAL SIGNED COPIES OF REQUIRED DOCUMENTS.
- PROVIDE THE FOLLOWING COMPLETE INFORMATION FOR EACH ITEM:
- 3.1. PRODUCT OR ASSEMBLY. 3.2. FIRM, WITH NAME OF PRINCIPAL, ADDRESS AND TELEPHONE NUMBER.
- 3.3. SCOPE OF WARRANTY. 3.4. DATE OF BEGINNING OF WARRANTY, BOND OR SERVICE AND MAINTENANCE CONTRACT.
- 3.5. DURATION OF WARRANTY, BOND OR SERVICE MAINTENANCE CONTRACT. 3.6. PROVIDE INFORMATION FOR PROPER PROCEDURE IN CASE OF FAILURE AND IN INSTANCES WHICH MAY AFFECT THE VALIDITY OF WARRANTY
- OR BOND. 3.7. CONTRACTOR'S NAME OF RESPONSIBLE PRINCIPAL, AND ADDRESS AND TELEPHONE NUMBER.
- PREPARE IN DUPLICATE PACKETS IN 3-RING BINDERS OF COMMERCIAL QUALITY, WITH DURABLE AND CLEANABLE PLASTIC COVERS.
- REVIEW SUBMITTALS TO VERIFY COMPLIANCE WITH CONTRACT DOCUMENTS. SUBMIT TO OWNER WITH CLOSEOUT SUBMITTALS AS SPECIFIED IN

SECTION 02050- DEMOLITION

- DO NOT BEGIN DEMOLITION WORK UNTIL TEMPORARY PARTITIONS, BARRICADES, WARNING SIGNS AND OTHER FORMS OF PROTECTION ARE
- NOISE CONTROL: EXERCISE CAUTION AND CARE TO PREVENT GENERATION OF UNNECESSARY NOISE. KEEP NOISE LEVELS TO THE MINIMUM POSSIBLE. INFORM LANDLORD, WHERE APPLICABLE, IN ADVANCE OF THE START OF ANY EXCESSIVELY NOISY DEMOLITION WORK SO SUCH WORK MIGHT BE SCHEDULED FOR DURING CLOSED HOURS.
 - DUST CONTROL: CONTROL DUST WITHIN WORK AREAS BY METHODS ACCEPTABLE TO THE LANDLORD. DO NOT ALLOW DUST TO ESCAPE INTO ADJACENT SPACES IN THE BUILDING OR MALL; ASSUME LIABILITY FOR ALL CLAIMS RELATED TO FLYING DUST.
- WATER CONTROL: CONTROL THE USE OF WATER TO PREVENT DAMAGE TO THE EXISTING FACILITIES AND SITE IMPROVEMENTS TO REMAIN. PROVIDE WET VACUUM EQUIPMENT WHERE WATER IS USED IN, OR ADJACENT TO, EXISTING BUILDINGS.
- PROTECTIVE MEASURES: PROVIDE ALL SAFEGUARDS, INCLUDING WARNING SIGNS AND LIGHTS, BARRICADES, AND THE LIKE, FOR PROTECTION OF THE
- PUBLIC, CONTRACTOR'S EMPLOYEES AND ADJACENT PROPERTY DURING DEMOLITION. OBSERVE APPLICABLE HEALTH AND SAFETY REGULATIONS WHEN REMOVING SUBSTANCES CONTAINING ASBESTOS SUCH AS FIREPROOFING, ETC.,
- 7. SAFETY: IF AT ANY TIME THE SAFETY OF EXISTING CONSTRUCTION APPEARS TO BE ENDANGERED, TAKE IMMEDIATE MEASURES TO SUPPORT SUCH ENDANGERED CONSTRUCTION; CEASE OPERATIONS AND IMMEDIATELY NOTIFY THE ARCHITECT. DO NOT RESUME DEMOLITION UNTIL ARCHITECT'S I NSTRUCTIONS ARE RECEIVED.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ADEQUACY AND INSTALLATION OF ALL TEMPORARY SHORING AND BRACING SYSTEMS USED DURING THE PERFORMANCE OF THIS WORK.
- WORK SHALL BE PERFORMED BY SKILLED AND PROPERLY EQUIPPED PERSONNEL. PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION OPERATIONS TO MATERIALS TO REMAIN.
- 10. PATCH MATERIALS TO REMAIN WHEN DAMAGED BY THIS WORK. FINISH MATERIALS AND APPEARANCE OF THE PATCH OR REPAIR WORK SHALL MATCH THE EXISTING CONTIGUOUS MATERIALS AND FINISHES IN ALL RESPECTS.
- 11. DEBRIS, WASTE AND REMOVED MATERIALS, OTHER THAN ITEMS TO BE SALVAGED, ARE CONTRACTOR'S PROPERTY FOR LEGAL DISPOSAL OFF THE SITE.

SECTION 03550 - CEMENTITIOUS FLOOR FILL

AND FOR REMOVAL AND DISPOSAL OF OTHER TOXIC SUBSTANCES.

- 1. PROVIDE A SELF-LEVELING CEMENTITIOUS FLOOR FILL AT SLABS TO RECEIVE HARD SURFACE FLOORING AND AT PERIMETER FIXTURES THAT EXCEED 1/8 INCH PER 10 FEET OUT OF LEVEL, NON-CUMULATIVE. PROVIDE FLOOR FILL AT ALL OTHER LOCATIONS WHERE EXISTING SLAB IS DEFICIENT OR WHERE NECESSARY TO CORRECT PROBLEMS ASSOCIATED WITH FLOOR LEVELING.
- NSTALLATION OF THE CEMENT-BASED, SELF-LEVELING UNDERLAYMENT MUST BE BY AN APPLICATOR USING MIXING EQUIPMENT AND TOOLS APPROVED BY THE MANUFACTURER.
- THE FLOOR FILL SYSTEM SHALL CONSIST OF THE USE OF A PRIMER AND A MIX OF CEMENTS AND BINDERS WHICH, WHEN MIXED WITH WATER, BECOMES A LIQUID CEMENT COMPOUND THAT TENDS TO SEEK ITS OWN LEVEL, BUT IS PLASTIC ENOUGH TO BE FLOATED TO PRODUCE A SMOOTH FLOOR TRANSITION. FLOOR FILL SHALL BE CAPABLE OF RETAINING A TRANSITION SLOPE OF 1/4 INCH IN 10 FEET WITHOUT CREEP.
- MATERIALS: PRODUCTS AND PROCEDURES BY CUSTOM BUILDINGS PRODUCTS (213) 582-0846 ARE SPECIFIED BELOW. EQUIVALENT PRODUCTS BY ARDEX ARE ACCEPTABLE.
- 4.1. PRIMER: LEVEL-QUICK CONCENTRATED LATEX PRIMER BY CUSTOM BUILDING PRODUCTS.
- 4.2. FLOOR FILL MATERIAL: LEVEL-QUICK SELF-LEVELING UNDERLAYMENT BY CUSTOM BUILDING PRODUCTS. 4.3. AGGREGATE: WELL-GRADED, WASHED PEA GRAVEL (1/8" TO 1/4" OR LARGER) FOR USE WHEN UNDERLAYMENT IS INSTALLED OVER 1/2"
- 4.4. WATER SHALL BE CLEAN, POTABLE AND SUFFICIENTLY COOL (NOT WARMER THAN 70 DEGREES).
- IN ADDITION TO THE GENERAL PROCEDURES DESCRIBED HEREIN, REFER TO THE MANUFACTURER'S CURRENT PUBLISHED PRODUCT LITERATURE FOR COMPLETE INSTALLATION DETAILS FOR THE FLOOR FILL SYSTEM BEING INSTALLED.

ALL CONCRETE SUBFLOORS MUST BE OF ADEQUATE STRENGTH, CLEAN, AND FREE OF ALL OIL, GREASE, DIRT, CURING COMPOUNDS, AND ANY

- SUBSTANCE WHICH MIGHT ACT AS A BONDBREAKER. MECHANICALLY CLEAN IF NECESSARY USING SHOT-BLASTING OR OTHER ACCEPTABLE MEANS.
- ALL CRACKS IN THE SUBFLOOR SHALL BE REPAIRED TO MINIMIZE TELEGRAPHING THROUGH THE UNDERLAYMENT.
- 8. SUBFLOORS SHALL BE INSPECTED AND CORRECTED FOR MOISTURE OR ANY OTHER CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE UNDERLAYMENT OR FINISH FLOOR COVERING. THE SPECIFIED PRODUCT IS A CEMENTITIOUS MATERIAL. OBSERVE THE BASIC RULES OF CONCRETE WORK. DO NOT INSTALL BELOW 50EF SURFACE TEMPERATURE. INSTALL QUICKLY IF FLOOR IS WARM AND FOLLOW HOT WEATHE PRECAUTIONS AVAILABLE FROM THE MANUFACTURER. DO NOT
- 10. APPLY CEMENTITIOUS FLOOR FILL MATERIAL AND HAND FLOAT AS REQUIRED BY EXISTING FLOOR CONDITIONS SO THAT MATERIAL FEATHERS OUT TO ZERO AT HIGH SPOTS AND EDGES, AND THE REMAINING FILL AREA CONFORMS TO SPECIFIED TOLERANCES.
- TOLERANCES: UNLESS SPECIFIED OTHERWISE, COMPLETED SURFACE SHALL SLOPE A MAXIMUM OF 1/8 INCH IN 10 FEET. FILL-IN WITH COMPATIBLE MATERIAL OR GRIND DOWN BUMPS TO ACHIEVE REQUIRED TOLERANCES AND SMOOTH FINISH SUITABLE FOR HARD-SURFACE FLOORING

SECTION 05400 - LIGHT METAL FRAMING 1. PROVIDE METAL STUDS FOR SUPPORT OF GYPSUM BOARD AND ALL OTHER ASSEMBLIES HEREIN SPECIFIED.

MIX WITH CEMENT OR ADDITIVES OTHER THAN MANUFACTURER APPROVED PRODUCTS.

- PROVIDE BACKING PLATES NOT PROVIDED BY OTHER TRADES FOR SUPPORT OF ITEMS ATTACHED TO LIGHT GAGE METAL FRAMING.
- PROVIDE SUPPLEMENTARY PARTS AND COMPONENTS, SUCH AS INSERTS, CLIPS, BRACING, FASTENERS, ANCHORS AND OTHER MISCELLANEOUS SUPPORTS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- FIRE RESISTANCE: WHEREVER A FIRE RESISTANCE CLASSIFICATION IS INDICATED (L-HOUR, 2-HOUR OR SIMILAR DESIGNATION), PROVIDE MATERIALS, ACCESSORIES, AND APPLICATION PROCEDURES WHICH HAVE BEEN LISTEDBY UL, AND ARE APPROVED BY THE BUILDING DEPARTMENT.
- STUDS SUPPORTING GYPSUM BOARD AND SHEATHING SHALL BE A MINIMUM OF 20 GAGE AND HAVE A MINIMUM FLANGE WIDTH OF 1-3/8 INCH.
- STUDS SUPPORTING PLASTER SHALL BE A MINIMUM OF 18 GAGE AND HAVE A MINIMUM FLANGE WIDTH OF 1-3/8INCH.
- 7. STUDS WITH PARTICULARLY LONG SPANS MAY BE NOTED ON THE DRAWINGS TO BE OF HEAVIER GAGES, COMPLY ACCORDINGLY.

WHERE TOP RUNNER IS ATTACHED TO OVERHEAD FLOOR, DECK OR STRUCTURAL ELEMENT, PROVIDE FLEX TRACK BY SUPERIOR METAL TRIM

- PRODUCTS, OR A DOUBLE RUNNER WITH THE LOWER CHANNEL ATTACHED TO THE UPPER ONE WITH SCREWS IN SLOTTED HOLES MAY BE USED.
- 9. FURRING CHANNELS: 25 GAGE MINIMUM, GALVANIZED, HAT-SHAPED.
- 10. RUNNER CHANNELS AND BRIDGING: 16 GAGE CHANNELS FABRICATED OF COLD-ROLLED STEEL, WITH FLANGES NOT LESS THAN 7/16" WIDE. 11. DO NOT ATTACH METAL FRAMING NOR SUSPENSION WIRES TO DUCTS, CONDUITS OR PIPES.

EQUIPMENT, ETC. ASSEMBLE CORNERS USING A MINIMUM OF 3 STUDS.

LOCATED IN STUD WALLS.

ACROSS 3 STUDS.

- 12. CUT FRAMING COMPONENTS SQUARELY FOR A TIGHT FIT AGAINST ABUTTING MEMBERS. ERECT FRAMING PLUMB AND LEVEL TO PROVIDE SOLID
- 13. DO NOT EXCEED A 1/8 INCH IN 10 FEET TOLERANCE FROM TRUE LINES AND LEVELS, NOR 1/8 INCH FROM TRUE POSITION. PERFORM REMEDIAL WORK ON FRAMING AS NECESSARY TO ACHIEVE SPECIFIED TOLERANCES.

BACKING FOR FINISH MATERIALS. INSTALL ALL STEEL STUDS IN A WALL/PARTITION SO THAT THEIR FLANGES POINT IN THE SAME DIRECTION.

- 14. LAY-OUT ALL PARTITIONS, SOFFITS AND CEILING BREAKS, AND PERMANENTLY MARK ON SLABS AND SOFFITS. LAY-OUT SHALL BE WITHIN 1/8 INCH OF THEIR INDICATED LOCATIONS. NOTIFY THE ARCHITECT IMMEDIATELY IN CASE OF DISCREPANCIES; DO NOT START WORK UNTIL DISCREPANCIES ARE
- 15. ALIGN AND SECURELY ANCHOR CEILING AND FLOOR TRACKS TO BUILDING CONSTRUCTION. DO NOT DRIVE FASTENERS CLOSER THAN 2 INCH TO SLAB

16. PROVIDE DOUBLE STUDS, CLOSER SPACING, AND ADDITIONAL REINFORCEMENT AS DETAILED OR REQUIRED AT DOOR FRAMES, RECESSES FOR

INSTALL STUDS IN SINGLE LENGTH, WITHOUT JOINTS, EXTENDING FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF STRUCTURE ABOVE, EXCEPT WHERE NOTED ON THE DRAWINGS TO STOP AT SUSPENDED CEILINGS. SPLICING STUDS IS NOT PERMITTED.

18. PROVIDE ADDITIONAL FRAMING, AS REQUIRED, FOR ATTACHMENT OF ELECTRICAL BOXES, FIRE EXTINGUISHER CABINETS AND SIMILAR ITEMS

19. BACKING PLATES NOT PROVIDED WITH FIXTURES AND EQUIPMENT SHALL BE AT LEAST 16 GAGE X 4 INCHES WIDE AND LONG ENOUGH TO SPAN

1. PROVIDE STEEL SHAPES AND CONNECTIONS AS REQUIRED OR INDICATED ON THE DRAWINGS.

SECTION 05400 - LIGHT METAL FRAMING

D1.1, STRUCTURAL WELDING CODE.

- 2. PROVIDE MISCELLANEOUS TUBES, CHANNELS, ANGLES, PLATES, BARS, RODS, METAL DECKING AND OTHER SHAPES, NOT SPECIFIED IN OTHER SECTIONS BUT REQUIRED TO COMPLETE THE WORK.
- 3. REFERENCE STANDARDS: THE APPLICABLE PROVISIONS OF THE FOLLOWING GOVERN THE WORK OF THIS SECTION: AISC, DESIGN, FABRICATION ANI ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. AISI, SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. AWS
- 4. STEEL PLATES, BARS AND SHEETS: ASTM A36, ASTM A283, GRADE C, ASTM A306, GRADE 65, ASTM A446 OR A526 WITH ZINC COATING CONFORMING TO ASTM A525, DESIGNATION G90, OR ASTM A575.
- STEEL PIPE: ASTM A53, TYPE E OR S, GRADE A. FY = 35 KSI.
- 6. STEEL TUBING: ASTM A500, GRADE B. FY = 46.0 KSI.

EXPANSION INDUSTRIES, INC., HILTI OR EQUAL.

ESTABLISHED LINES AND LEVELS.

- CONCRETE AND MASONRY ANCHORS: SELF-DRILLING OR NON-DRILLING EXPANSION TYPES BY PHILLIPS DRILL CO., INC., RAWLPLUG CO., INC., STAR
- WELDING ELECTRODES: TYPES RECOMMENDED BY AWS FOR THE METALS TO BE WELDED.
- PAINT TOUCH-UP FOR GALVANIZED SURFACES: ZINC-RICH PRIMER BY ZRC, TNEMEC OR EQUAL.
- 10. CUT, REINFORCE, DRILL, PUNCH, THREAD AND TAP MISCELLANEOUS METAL WORK AS REQUIRED TO RECEIVE FINISH HARDWARE AND SIMILAR
- 11. FORM BENT METAL CORNERS TO THE SMALLEST RADIUS POSSIBLE WITHOUT CAUSING GRAIN SEPARATION OR OTHERWISE IMPAIRING THE
- STRENGTH OF THE MATERIAL. 12. FABRICATE ITEMS IN THE LARGEST SECTIONS PRACTICAL TO MINIMIZE FIELD JOINTING.
- 13. APPLY A HEAVY COAT OF BITUMINOUS PAINT TO METAL SURFACES IN CONTACT WITH CONCRETE OR MASONRY.
- 14. WELD SHOP AND FIELD CONNECTIONS CONTINUOUSLY IN ACCORDANCE WITH AWS D1.1, UNLESS BOLTED CONNECTIONS ARE SPECIFICALLY
- INCLUDING THREADED FASTENERS FOR CONCRETE AND MASONRY INSERTS, TOGGLE BOLTS, THROUGH-BOLTS, LAG BOLTS, WOOD SCREWS AND OTHER

15. PROVIDE ANCHORAGE DEVICES AND FASTENERS REQUIRED FOR ATTACHING MISCELLANEOUS METAL WORK TO IN-PLACE CONSTRUCTION,

17. FIT EXPOSED CONNECTIONS ACCURATELY TO FORM FLUSH, HAIRLINE JOINTS. WELD CONNECTIONS WHICH ARE NOT TO BE LEFT AS EXPOSED JOINTS, BUT CANNOT BE SHOP WELDED BECAUSE OF SHIPPING SIZE LIMITATIONS. GRIND EXPOSED JOINTS SMOOTH AND FLUSH WITH PARENT METAL

16. SET ITEMS ACCURATELY IN THEIR PROPER LOCATION, ALIGNMENT AND ELEVATION, PLUMB, LEVEL, TRUE AND FREE OF RACK AS MEASURED FROM

TEL 510.836.5400 URL lowneyarch.com 360 seventeenth street | suite 200 | oakland, california 94612

50 BRODERICK RD,

BURLINGAME, CA 94010

DATE ISSUES & REVISIONS

PERMIT SUBMITTAL 8/13/2025 RESUBMITTAL

PROJECT NUMBER: OAK24-CO-052

SPECIFICATIONS

SHEET NUMBER

CONSULTANT PROJECT NO:

SHEET TITLE:

ND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED

SECTION 06200 - FINISH CARPENTRY & MILLWORK

- PROVIDE CABINETRY AND FINISH HARDWARE AS INDICATED ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE INSTALLATION.
- COORDINATE THE WORK OF THIS SECTION WITH OWNER'S FIXTURE CONTRACTOR AND RELATED TRADES.
- 3. VERIFY APPLICABLE DIMENSIONS AT THE JOBSITE.
- 4. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 01300. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL MATERIALS, DIMENSIONS, PROFILES AND OTHER PERTINENT DATA.
- FABRICATE ALL WORK FROM MATERIALS OF THE SPECIES AND GRADES SPECIFIED HEREAFTER IN ACCORDANCE WITH THE WOODWORK INSTITUTE OF CALIFORNIA (W.I.C.) MANUAL OF MILLWORK, "PREMIUM GRADE" REQUIREMENTS (UNLESS HEREIN NOTED OTHERWISE).
- 6. SOLID WOOD: PLAIN SAWN YELLOW POPLAR, PREMIUM GRADE COMPLYING WITH WIC SECTION 4.
- PLYWOOD: PAINT GRADE BIRCH COMPLYING WITH WIC SECTION 6, CUSTOM GRADE, HARDWOOD.
- 8. PLASTIC LAMINATE SURFACING MATERIAL: COLOR AND TEXTURE AS NOTED ON DRAWINGS.
- 9. WOOD SCREWS AND NAILS: SELECT THE MATERIAL, TYPE, SIZE AND FINISH REQUIRED FOR EACH USE.
- 10. ANCHORS: SELECT THE MATERIAL, TYPE, SIZE AND FINISH REQUIRED BY EACH SUBSTRATE FOR SECURE ANCHORAGE. PROVIDE NONFERROUS METAL OR HOT-DIP GALVANIZED ANCHORS AS REQUIRED FOR CORROSION RESISTANCE.
- 11. FABRICATE WOODWORK AND PLASTIC LAMINATE TO DIMENSIONS, PROFILES AND DETAILS SHOWN. ROUT OR GROOVE BACK OF FLAT WOOD TRIM MEMBERS, KERF BACKS OF OTHER WIDE FLAT WOOD MEMBERS EXCEPT PLYWOOD.
- 12. SHOP ASSEMBLE IN AS LARGE UNITS AS PRACTICABLE TO MINIMIZE FIELD CUTTING AND JOINTING. WHERE NECESSARY TO FIT AT SITE, PROVIDE
- 13. INSTALL THIS WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS.
- 14. CUT TO FIT WHEN NOT SHOP-FABRICATED OR SHOP-CUT TO EXACT SIZE. WHEREWORK ABOUTS OTHER FINISHED WORK, SCRIBE AND CUT FOR ACCURATE FIT. BEFORE MAKING CUTOUTS, DRILL PILOT HOLES AT CORNERS.
- 15. ANCHORING: SECURE WORK TO ANCHORS OR BLOCKING BUILT-IN OR DIRECTLY ATTRIBUTABLE TO SUBSTRATES.
- 16. REPAIR DAMAGED OR DEFECTIVE WOOD WORK AS DIRECTED. ADJUST AND LUBRICATE HARDWARE FOR PROPER OPERATION.
- 17. CLEAN EXPOSED INTERIOR AND EXTERIOR SURFACES. CLEAN SHOP FINISHED WOODWORK, TOUCH UP FINISH AS REQUIRED, AND REMOVE AND REFINISH DAMAGED OR SOILED AREAS OF FINISH.

SECTION 07840 - FIRESTOPPING

AMPLE ALLOWANCE FOR CUTTING AND FITTING.

- 1. FIRESTOPPING OF ALL PENETRATIONS THROUGH FIRE BARRIERS, INCLUDING:
- 1.1. VOIDS AROUND PIPES, CONDUITS, CABLES AND WIRES NOT IN CONDUIT.
- 1.2. OTHER OPENINGS, AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. 1.3. JOINTS BETWEEN SMOKE BARRIERS AND OTHER CONSTRUCTION.
- PRODUCTS OF THE MANUFACTURERS LISTED BELOW WILL BE ACCEPTED:
- 2.1. GE SILICONES, WATERFORD, NY (800/255-8886) ISOLATEK INTERNATIONAL, LOCAL REPRESENTATIVE MISSION VIEJO, CA (714/837-4024) 3M/CONSTRUCTION MARKETS DEPARTMENT, ST. PAUL, MN NELSON FIRESTOP PRODUCTS, TULSA, OK (800/331-7325) THE RECTORSEAL CORP., HOUSTON, TX SEMCO DIVISION/PRODUCTS RESEARCH AND CHEMICAL CORPORATION (PRC) SPECIFIED TECHNOLOGIES INC., SOMERVILLE, NJ
- FIRESTOPPING MATERIALS: PROVIDE PENETRATION SEAL ASSEMBLIES WHOSE FIRE-RESISTANCE RATINGS HAVE BEEN DETERMINED BY TESTING IN THE CONFIGURATIONS REQUIRED AND WHICH HAVE FIRE-RESISTANCE RATINGS AT LEAST AS HIGH AS THAT OF THE FIRE-RATED ASSEMBLY IN WHICH
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TYPES OF PENETRATIONS TO BE SEALED AND TO SELECT APPROPRIATE FIRESTOPPING ASSEMBLIES.
- 5. IF A TESTED ASSEMBLY IS NOT AVAILABLE FOR A PARTICULAR PENETRATION CONFIGURATION, MODIFY THE PENETRATION CONFIGURATION TO SUIT AVAILABLE ASSEMBLIES; DO NOT MODIFY ASSEMBLY CONFIGURATION EXCEPT AS SPECIFICALLY STATED IN THE TEST REPORT OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 6. PROVIDE PRODUCTS WHICH:
- 6.1. ALLOW NORMAL EXPANSION AND CONTRACTION MOVEMENT OF THE PENETRATING ITEM WITHOUT FAILURE OF THE PENETRATION SEAL.
- 6.2. EMIT NO HAZARDOUS, COMBUSTIBLE, OR IRRITATING BY-PRODUCTS DURING INSTALLATION OR CURING PERIOD. 6.3. DO NOT REQUIRE SPECIAL TOOLS FOR INSTALLATION.

SECTION 07900 - SEALANTS

- THIS SECTION CONTAINS REQUIREMENTS PERTAINING TO ALL SEALANTS USED ON THE PROJECT AND BECOMES A PART OF ALL SECTIONS CONTAINING REFERENCES TO THIS SECTION, OR WHEN SEALANTS ARE INDICATED ON THE DRAWINGS OR REQUIRED TO MAKE THE BUILDING
- 2. DO NOT INSTALL SEALANTS UNDER ADVERSE WEATHER CONDITIONS, OR WHEN TEMPERATURES ARE BEYOND MANUFACTURER'S RECOMMENDED
- 3. WARRANT SEALANTS AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR 5 YEARS AFTER SUBSTANTIAL COMPLETION. WARRANTY SHALL FURTHER STATE THAT INSTALLED SEALANTS ARE WARRANTED AGAINST THE FOLLOWING:
- 3.1. WATER LEAKAGE THRU SEALED JOINTS.
- 3.2. ADHESIVE OR COHESIVE FAILURE OF SEALANT. 3.3. STAINING OF ADJACENT SURFACES CAUSED BY MIGRATION OF SEALANTS OR PRIMER.
- 3.4. CHALKING OR VISIBLE COLOR CHANGE OF THE CURED SEALANTS.
- 4. COLORS: CUSTOM COLORS SELECTED BY THE ARCHITECT TO MATCH FINISH MATERIALS.
- 5. COMPATIBILITY: VERIFY THAT SELECTED SEALERS WILL NOT CAUSE STAINING, DEGRADATION AND PREMATURE AGING OF THE ADJACENT SURFACES AND THE SEALANT ITSELF WHEN IN CONTACT WITH THESE SURFACES.
- FOR ALL EXTERIOR APPLICATIONS:
- 6.1. GENERAL ELECTRIC CORP.: GESIL OR SILPRUF. 6.2. DOW CORNING CORP.: 790 OR 795.
- 6.3. BOSTICK CONSTRUCTION PRODUCTS DIV.: CHEM-CALK 1000 OR 2000.
- 6.4. TREMCO CORP.: SPECTRUM 1 OR 2. 6.5. RHONE-POULENC: RHODORSIL 5C.
- 7. FOR INTERIOR LOCATIONS, OTHER THAN FLOORS, SUCH AS CERAMIC WALL TILE, PLUMBING FIXTURES AND OTHERS WHERE A MILDEW-RESISTANT
- SEALANT IS REQUIRED:
- 7.1. GENERAL ELECTRIC CORP.: 1700. 7.2. DOW CORNING CORP.; 786. 7.3. RHONE-POULENC: RHODORSIL 6B.
- SEALANT BACKER ROD: COMPRESSIBLE ROD STOCK FORMED OF CLOSED-CELL POLYETHYLENE FOAM, POLYETHYLENE JACKETED POLYURETHANE FOAM, BUTYL RUBBER FOAM, NEOPRENE FOAM OR OTHER FLEXIBLE, PERMANENT, DURABLE NON-ABSORPTIVE MATERIAL RECOMMENDED BY THE
- SEALANT MANUFACTURER. 8.1. PROVIDE SIZE AND SHAPE OF ROD WHICH WILL CONTROL THE JOINT DEPTH FOR SEALANT PLACEMENT, BREAK BOND OF SEALANT AT BOTTOM OF JOINT, FORM OPTIMUM SHAPE OF SEALANT BEAD ON BACK, AND PROVIDE A HIGHLY COMPRESSIBLE BACKER TO MINIMIZE THE
- POSSIBILITY OF SEALANT EXTRUSION WHEN JOINT IS COMPRESSED. 9. CLEAN AND PREPARE JOINTS JUST BEFORE INSTALLING SEALANT, IN ACCORDANCE WITH THE SEALANT MANUFACTURER'S PRINTED INSTRUCTIONS
- USING MATERIALS RECOMMENDED BY THE SEALANT MANUFACTURER. REMOVE DIRT, LOOSE COATINGS, MOISTURE AND OTHER SUBSTANCES THAT 15. WOULD INTERFERE WITH SEALANT BOND.

- 10. INSTALL BACKER ROD FOR ALL SEALANTS WITH BLUNT OR ROUNDED TOOLS TO AVOID PUNCTURING THE MATERIAL. DO NOT TWIST, STRETCH OR BRAID THE BACKER ROD.
- EMPLOY ONLY PROVEN INSTALLATION TECHNIQUES WHICH WILL ENSURE THAT SEALANTS ARE INSTALLED IN UNIFORM, CONTINUOUS RIBBONS WITHOUT GAPS OR AIR POCKETS AND WITH COMPLETE "WETTING" OF THE RABBET SURFACES EQUALLY ON OPPOSITE SIDES.
- FILL RABBETS TO A SLIGHTLY CONCAVE SURFACE JUST BELOW ADJACENT SURFACES. FOR NORMAL JOINTS NOT SUBJECT TO TRAFFIC: FILL JOINTS TO A DEPTH EQUAL TO 50% OF JOINT WIDTH, BUT NOT LESS THAN 1/4" DEEP OR MORE THAN 1/2" DEEP, MEASURED AT THE CENTER (THIN) SECTION OF
- REMOVE EXCESS SEALANT SPILLAGE PROMPTLY AS THIS WORK PROGRESSES. CLEAN ADJACENT SURFACES BY RECOMMENDED MEANS TO REMOVE SEALANT, BUT NOT DAMAGE THE SURFACES.

SECTION 08700 - FINISH HARDWARE

- FURNISH FINISH HARDWARE REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. FINISH HARDWARE WORK MAY BE A COMBINATION OF NEW DOORS AND NEW HARDWARE AS WELL ASEXISTING DOORS WITH NEW HARDWARE.
- FURNISH TRIM ATTACHMENTS AND FASTENINGS, SPECIFIED OR OTHERWISE REQUIRED, FOR PROPER AND COMPLETE INSTALLATION.
- COMPLY WITH THE DISABLED ACCESS REQUIREMENTS OF THE UNIFORM BUILDING CODE (UBC), ALL LOCAL AND STATE CODES AND AMERICANS WITH DISABILITIES ACT (ADA).
- EXCEPT FOR ITEMS SPECIFICALLY INCLUDED OR SPECIFIED UNDER OTHER SECTIONS, PROVIDE ALL FINISH HARDWARE AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK SHOWN.
- WHERE THE SIZE OR SHAPE OF MEMBERS TO BE EQUIPPED WITH HARDWARE PREVENTS OR MAKES UNSUITABLE THE USE OF HARDWARE SPECIFIED, EQUAL TYPES HAVING AS NEARLY AS PRACTICABLE THE SAME OPERATION, FUNCTION AND QUALITY SHALL BE FURNISHED.
- SIZES OF ALL ARTICLES OF HARDWARE IN ALL INSTANCES SHALL BE ADEQUATE FOR THE SERVICE TO WHICH THE INDIVIDUAL ITEMS OF HARDWARE WILL BE SUBJECTED IN THE COURSE OF NORMAL USAGE.
- FURNISH SILENCERS FOR DOOR FRAMES AT THE RATE OF THREE FOR EACH SINGLE DOOR AND TWO FOR EACH DOOR FOR PAIR OF DOORS; COORDINATE WITH WEATHERSTRIPPED DOORS AND DOORS WITH LIGHT SEALS OR SMOKE SEALS.
- THE KEYING ARRANGEMENTS ARE TO BE PREPARED, COORDINATED AND APPROVED WITH OWNER.
- PROVIDE MINIMUM TWO KEYS PER LOCK (OR AS REQUIRED BY OWNER, AT NO ADDITIONAL COST). EACH KEY SHALL BE TAGGED FOR THE RESPECTIVE
- FURNISH TO THE GENERAL CONTRACTOR TWO (2) CONSTRUCTION MASTER KEYS. CONSTRUCTION CORES SHALL FURNISHED BY THE HARDWARE SUPPLIER TO OPERATE LOCKS DURING CONSTRUCTION. UPON INSERTION OF OWNER'S CHANGE KEY, THE CONSTRUCTION CORES SHALL BE REMOVED, AND PERMANENT CORES SHALL BE INSTALLED BY CONTRACTOR, IN PRESENCE OF OWNER'S REPRESENTATIVE.
- PROVIDE KNOCK-OUT KEY(S) THAT WILL CANCEL/REMOVE THE CONSTRUCTION CORE UPON COMPLETION OF CONTRACTOR'S WORK.
- WITH THE DELIVERY OF PERMANENT KEYS, DELIVER TO THE OWNER ONE COMPLETE SET OF ADJUSTMENT TOOLS AND ONE SET OF MAINTENANCE MANUALS FOR LOCKSETS, LATCHSETS, CLOSERS, PANIC DEVICES, AND AS REQUESTED BY OWNER.
- SINGLE SOURCE FOR ITEMS: TO THE MAXIMUM EXTENT PRACTICABLE, FURNISH SIMILAR ITEMS (SUCH AS "DOOR BUTTS") ONLY AS THE PRODUCT OF A SINGLE MANUFACTURER.
- REFER TO THE HARDWARE SCHEDULE ON THE DRAWINGS FOR SPECIFIC HARDWARE ITEMS AND FINISHES. IN ADDITION TO THE SPECIFIED ITEMS, EQUIVALENT HARDWARE ITEMS FROM THE FOLLOWING MANUFACTURERS WILL BE ACCEPTED PROVIDING THAT FUNCTION, QUALITY AND FINISH ARE 12. SCRIBE AND CUT UNITS FOR ACCURATE FIT AT BORDERS AND AROUND WORK WHICH PENETRATES CEILINGS.
- MAINTAINED.
- 14.1. ADAMS RITE MANUFACTURING CO. LOCKSETS (WITHOUT CYLINDERS), AUTOMATIC BOLTS
- 14.2. BALDWIN HARDWARE MFG. CORP. PUSH AND PULL PLATES
- 14.3. BEST LOCK CORP. (8K SERIES) LOCKSETS, LATCHSETS, CYLINDERS, DEADBOLTS
- 14.4. BROOKLINE INDUSTRIES, INC. KICKPLATES, PUSH AND PULL PLATES, THRESHOLDS 14.5. DORMA - CLOSERS
- 14.6. GLYNN-JOHNSON CORPORATION DOOR STOPS, BUMPERS AND SILENCERS 14.7. HAGER AND SONS - HINGES
- 14.8. IVES BUILDERS HARDWARE DOOR STOPS, BUMPERS, FLUSH BOLTS
- 14.9. LCN CLOSER DOOR CLOSERS
- 14.10. NORTON DOOR CLOSERS 14.11. STANLEY - HINGES
- 14.12. YALE SECURITY, INC. DOOR CLOSERS 14.13. VON DUPRIN - ALARM/EXIT DEVICES
- PROVIDE OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. MATCH FINISHES OF
- SPECIFIED ITEMS.
- HARDWARE AND OPERATING MECHANISMS SHALL BE ADJUSTED AND LUBRICATED AS REQUIRED AFTER INSTALLATION IS COMPLETED TO INSURE PRO

SECTION 09250 - GYPSUM BOARD

- FIRE RESISTANCE: COMPLY WITH FIRE RESISTANCE RATINGS INDICATED AND REQUIRED BY CODE. PROVIDE MATERIALS, ACCESSORIES AND APPLICATION PROCEDURES WHICH HAVE BEEN LISTED BY UL OR TESTED IN ACCORDANCE WITH ASTM E119 FOR THE TYPE OF CONSTRUCTION
- REFERENCE STANDARD: THE APPLICABLE PROVISIONS OF ASTM C840, APPLICATION AND FINISHING OF GYPSUM BOARD, GOVERN THE WORK OF THIS SECTION UNLESS OTHERWISE NOTED.
- GYPSUM BOARD: 5/8 INCH THICKNESS, UNLESS NOTED OTHERWISE. PROVIDE TYPE X BOARDS AT FIRE RATED ASSEMBLIES. USE PRODUCTS BY

GENSTAR BUILDING MATERIALS CO., GOLDBOND BUILDING PRODUCTS, U.S. GYPSUM CO., GEORGIA PACIFIC CORP., DOMTAR GYPSUM AMERICA OR

- TOILET ROOMS AND KITCHEN AREAS: MOISTURE RESISTANT GYPSUM BOARD COMPLYING WITH ASTM C630.
- EXTERIOR SOFFITS: 5/8 INCH THICKNESS, UNLESS NOTED OTHERWISE, EXTERIOR GYPSUM CEILING BOARD BY UNITED STATES GYPSUM COMPANY OR APPROVED EQUAL. FINISH JOINTS WITH SETTING-TYPE COMPOUND.
- ACCESS PANELS: REFER TO REFLECT CEILING PLAN LEGEND FOR SPECIFICATION.

PRINTED INSTRUCTIONS FOR CONCEALED FRAME FLUSH - MOUNTED INSTALLATION.

- JOINT TAPE, COMPOUND AND LAMINATING ADHESIVE: ASTM C475, TYPE RECOMMENDED BY THE GYPSUM BOARD MANUFACTURER.
- ACOUSTICAL INSULATION: 3" THICK THERMAFIBER SOUND ATTENUATION BLANKETS BY US GYPSUM CO., OR EQUAL UNFACED MINERAL WOOL OR GLASS FIBER INSULATION OF THE SAME DENSITY.

ALLOWABLE TOLERANCES:

- 9.1. DO NOT EXCEED 3/16 INCH IN 8 FT., AND 1/8 INCH IN 4 FT., FROM PLUMB, LEVEL AND FLAT (ALL DIRECTIONS) IN GYPSUM BOARD SURFACES. 9.2. DO NOT EXCEED 1/16 INCH OFFSET AT JOINTS BETWEEN GYPSUM BOARD PANELS.
- CEILINGS: APPLY GYPSUM BOARD WITH LONG DIMENSION AT RIGHT ANGLES TO SUPPORTS, WITH END JOINTS LOCATED OVER SUPPORTS. USE MAXIMUM PRACTICAL LENGTH PANELS TO MINIMIZE END JOINTS. STAGGER END JOINTS IN ALTERNATE PANELS.
- PARTITION/WALLS: APPLY GYPSUM BOARD USING FLOOR-TO-CEILING LENGTH BOARDS (WHERE POSSIBLE) WITH VERTICAL JOINTS LOCATED OVER SUPPORTS. OFFSET AT LEAST ONE STUD ON OPPOSITE SIDES OF PARTITION/WALLS.
- FASTEN GYPSUM BOARD TO METAL FRAMING WITH SCREWS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND CODE
- REQUIREMENTS, BUT DO NOT EXCEED 12 INCH ON CENTER SPACING. ACCESS PANELS: PROVIDE AT LOCATIONS SHOWN ON DRAWINGS OR REQUIRED BY LOCAL CODE. TO THE GREATEST EXTENT POSSIBLE, COORDINATE OTHER TRADES SO AS TO ELIMINATE THE NEED FOR ACCESS PANELS IN SUSPENDED GYPSUM BOARD CEILINGS. COMPLY WITH MANUFACTURERS
- INSULATION: INSTALL INSULATION AT INDICATED LOCATIONS. CUT TO FIT IRREGULAR SPACES, BUTT EDGES INTO FIRM CONTACT WITH EACH OTHER
- AND ADJOINING SURFACES. HAND PACK AROUND PIPES, DUCTS, CONDUITS, ELECTRICAL BOXES, ETC., AS REQUIRED TO THOROUGHLY FILL ALL VOIDS. INSTALL TRIM IN SINGLE UNJOINTED LENGTH, UNLESS LENGTH EXCEEDS MANUFACTURER'S STANDARD. ATTACH TO GYPSUM BOARD IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

- 15.1. INSTALL TYPE CB TRIM AT ALL EXTERNAL CORNERS.
- 15.2. INSTALL TYPE LC TRIM WHERE GYPSUM BOARD EDGES ARE EXPOSED IN THE FINISH WORK.
- 16. REINFORCE JOINTS BETWEEN GYPSUM BOARD PANELS, AND INTERIOR CORNERS AND ANGLES WITH TAPE SET IN JOINT COMPOUND. APPLY SKIM COAT OVER TAPE IN ONE APPLICATION. WHERE SPACES GREATER THAN 1/16 INCH OCCUR BETWEEN ABUTTING GYPSUM BOARD PANELS, PREFILL JOINTS WITH JOINT COMPOUND AND ALLOW TO DRY BEFORE APPLYING JOINT TAPE.
- 17. JOINT COMPOUND: APPLY 3 COATS OF JOINT COMPOUND OVER JOINTS AND TRIM, AND 2 COATS OVER SCREW HEADS.
- LAP EACH COAT NOT LESS THAN 4 INCHES OVER THE PRECEDING COAT (2 INCHES ON EACH EDGE). WIDTH OF JOINT COMPOUND ON TAPERED GYPSUM BOARD EDGES SHALL BE NOT LESS THAN 12 INCHES; WIDTH OF JOINT COMPOUND ON SQUARE GYPSUM BOARD EDGES NOT LESS THAN 18
- 19. ALLOW AT LEAST 24 HOURS DRYING TIME BETWEEN APPLICATIONS OF JOINT COMPOUND.
- 20. EXCEPTION: GYPSUM BOARD SURFACES ABOVE FINISHED CEILINGS, INSIDE DUCT SHAFTS, AND OTHER AREAS WHICH WILL BE CONCEALED IN THE FINISH WORK, AND IN STOCK ROOMS AND ELECTRICAL ROOMS, NEED ONLY RECEIVE ONE COAT OF JOINT COMPOUND ON TAPED JOINTS AND

SECTION 09510 - ACOUSTICAL CEILINGS

- DO NOT INSTALL ACOUSTICAL CEILINGS UNTIL THE SPACE TO RECEIVE THEM HAS BEEN ENCLOSED, AND IS WEATHER TIGHT, UNTIL WORK ABOVE CEILINGS HAS BEEN COMPLETED, AND UNTIL AMBIENT CONDITIONS OF TEMPERATURE AND HUMIDITY WILL BE CONTINUOUSLY MAINTAINED AT VALUES NEAR THOSE INDICATED FOR FINAL OCCUPANCY.
- ACOUSTICAL UNITS WHERE INDICATED: AS SPECIFIED IN DRAWINGS.
- SUSPENSION SYSTEM FOR LOCATIONS WITH ACOUSTICAL PANELS: AS SPECIFIED IN DRAWINGS. SYSTEM SHALL HAVE A "MEDIUM DUTY" CLASSIFICATION COMPLYING WITH ASTM C635.
- 4. HANGER WIRE: PER MANUFACTURERS SPECIFICATIONS.
- ACCESSORIES: DEVICES FOR ATTACHMENT TO OVERHEAD CONSTRUCTION, SECONDARY MEMBERS, SPLINES, SPLICERS, CONNECTION SLIPS, WALL
- TRIM: SPECIAL TRIM AS SHOWN OR REQUIRED BY CONSTRUCTION, AND COMPATIBLE WITH DESIGN, APPEARANCE AND DURABILITY RATING OF CEILING. TRIM AT PERIMETER AND PENETRATIONS SHALL PERMIT LATERAL ADJUSTMENT OF AT LEAST 1/2" TO ACCOMMODATE IRREGULARITIES IN VERTICAL SURFACES INTERRUPTING CEILING.
- FINISH: EXPOSED SURFACES OF METAL GRID AND ACCESSORIES: PRIME AND PAINT WITH A BAKED-ON ENAMEL FINISH. COLOR: WHITE.

CONNECTORS, COMPRESSION STRUTS AND ALL OTHER DEVICES REQUIRED FOR A COMPLETE INSTALLATION.

- CODES AND STANDARDS: INSTALL MATERIALS IN ACCORDANCE WITH THEIR MANUFACTURER'S PRINTED INSTRUCTIONS, ASTM C636, AND TO COMPLY WITH GOVERNING REGULATIONS AND INDUSTRY STANDARDS APPLICABLE TO THIS WORK.
- LAYOUT: PLAN LAYOUT TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH CEILING AREA. AVOID USE OF LESS THAN HALF-WIDTH UNITS WHEREVER POSSIBLE. COMPLY WITH ARCHITECT'S REFLECTED CEILING PLANS.
- 10. ALLOWABLE TOLERANCES: MAXIMUM DEVIATION FROM LEVEL AND FLAT OF THE COMPLETED CEILINGS SHALL NOT EXCEED 1/8" IN 10 FT. WHEN MEASURED WITH A STRAIGHTEDGE PLACED AT ANY LOCATION ON THE CEILING; 1/4" TOTAL DEVIATION WITHIN ANY SINGLE AREA.
- 11. ACOUSTICAL UNITS: MATCH TILE FOR COLOR AND PATTERN BY USING TILE FROM CARTONS IN THE SAME SEQUENCE AS MANUFACTURED.

13. WHERE UNITS ABUT WALL SURFACES AND REST ON FLANGE OF EDGE MOLDING, INSERT JIFFY CLIP BEHIND EACH ACOUSTICAL UNIT.

14. INSTALL HOLD-DOWN CLIPS AT EXTERIOR DOORS TO PREVENT PANEL UPLIFT OR FLUTTER FROM AIR MOVEMENT.



TEL 510.836.5400 URL lowneyarch.com 360 seventeenth street | suite 200 | oakland, california 94612

> 50 BRODERICK RD, BURLINGAME, CA 94010

4/25/2025

DATE ISSUES & REVISIONS

PERMIT SUBMITTAL

8/13/2025 RESUBMITTAL

PROJECT NUMBER: OAK24-CO-052 CONSULTANT PROJECT NO:

SPECIFICATIONS

SHEET NUMBER

SHEET TITLE:

A. Topping Poly-Crete SL 1. Percent Reactive 100 % 3.Bond Strength to Concrete ASTM D 4541 >400 psi, substrates fails 4.Compressive Strength, ASTM C 579 9,000 psi 5. Tensile Strength, ASTM D 638 2,175 psi 6.Flexural Strength, ASTM D 790 5,076 psi 7.Impact Resistance @ 125 mils, MIL D-3134, >160 inch lbs No visible damage or deterioration Intermediate Coat Poly-Crete TF Plus Percent Solids 3.Compressive Strength, ASTM C 579 7,250 psi 4. Tensile Strength, ASTM D 638 750 psi 5.Flexural Strength, ASTM D 790 4,400 psi 6. Abrasion Resistance, ASTM D 4060 40 mg loss CS-17 wheel, 1,000gm load, 1,000 cycles >160 in.lbs 7.Impact Resistance, ASTM D 1709 8. Shore D Hardness, ASTM D 2240 85 D 9.Gloss, ASTM D 523, 600 Flat/Matte Appearance Poly-Crete Color Fast Topcoat A. The work shall consist of preparation of the substrate, the furnishing and application of a cementitious urethane based self-leveling Percent Solids B. The system shall have the color and texture as specified by the Owner with a nominal thickness of 3/16 inch. It shall be applied to the 3.Compressive Strength, ASTM C 579 7,800 psi 4,200 psi 4. Tensile Strength, ASTM D 638 5.Flexural Strength, ASTM D 790 1,000 psi 6. Abrasion Resistance, ASTM D 4060 45 mg loss CS-17 wheel, 1,000gm load, 1,000 cycles 7. Shore D Hardness, ASTM D 2240 8.Gloss, ASTM D 523, 600 Semi-Gloss Appearance Samples: A 3 x 3 inch square sample of the proposed system. Color, texture, and thickness shall be representative of overall appearance of PART 3 - EXECUTION

A. The Manufacturer shall have a minimum of 10 years experience in the production, sales, and technical support of epoxy and urethane 3.1 EXAMINATION

SECTION 09660 - RESILIENT SHEET FLOORING

POLY-CRETE SLB AND POLY-CRETE TF PLUS TOPCOAT (Flintshot)

Specification Sections, apply to this Section.

Cast-in-Place Concrete, section 03 30 00

Concrete Curing, section 03 39 00

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1

seamless flooring system with Flintshot quartz aggregate broadcast and urethane topcoat.

prepared area(s) as defined in the plans strictly in accordance with the Manufacturer's recommendations.

Product Data: Latest edition of Manufacturer's literature including performance data and installation procedures.

Cove base (if required) to be applied where noted on plans and per manufacturers standard details unless otherwise noted

B. The Applicator shall have experience in installation of the flooring system as confirmed by the manufacturer in all phases of surface

System shall be in compliance with requirements of United States Department of Agriculture (USDA), Food, Drug Administration (FDA), and

System shall be in compliance with the Indoor Air Quality requirements of California section 01350 as verified by a qualified independent

A pre-installation conference shall be held between Applicator, General Contractor and the Owner to review this specification, application

All components of the system shall be delivered to the site in the Manufacturer's packaging, clearly identified with the product type and

The Applicator shall be provided with a dry storage area for all components. The area shall be between 60 F and 85 F, dry, out of direct

sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.

Copies of Safety Data Sheets (SDS) for all components shall be kept on site for review by the Engineer or other personnel.

1. The Applicator shall be provided with adequate disposal facilities for non-hazardous waste generated during installation of the system.

1. Application may proceed while air, material and substrate temperatures are between 60 F and 85 F providing the substrate temperature is

2. The relative humidity in the specific location of the application shall be less than 85 % and the surface temperature shall be at least 5 F

1. Concrete shall be moisture cured for a minimum of 7 days and have fully cured a minimum of 14 days in accordance with ACI-308 prior to

Concrete shall have a flat rubbed finish, float or light steel trowel finish (a hard steel trowel finish is neither necessary nor desirable).

Concrete surfaces on grade shall have been constructed with a vapor barrier to protect against the effects of vapor transmission and

A. Dur-A-Flex, Inc. warrants that material shipped to buyers at the time of shipment substantially free from material defects and will perform substantially

to Dur-A-Flex, Inc. published literature if used in accordance with the latest prescribed procedures and prior to the expiration date.

3. The Applicator shall be supplied with adequate lighting equal to the final lighting level during the preparation and installation of the

No requests for substitutions shall be considered that would change the generic type of the specified System.

procedure, quality control, inspection and acceptance criteria and production schedule.

above the dew point. Outside of this range, the Manufacturer shall be consulted.

The Owner shall be responsible for the removal of foodstuffs from the work area.

B. Dur-A-Flex, Inc. liability with respect to this warranty is strictly limited to the value of the material purchase.

A. Dur-A-Flex, Inc, Poly-Crete SLB (self leveling broadcast quartz), urethane topcoat seamless flooring system.

c. Intermediate Coat: Dur-A-Flex, Inc. Poly-Crete TF Plus resin, hardener and powdered aggregate.

A. Dur-A-Flex, Inc., 95 Goodwin Street, East Hartford, CT 06108, Phone: (860) 528-9838, Fax: (860) 528-2802

C. Dur-A-Flex Inc., Certified Applicator must be used. Contact Dur-A-Flex Territory Manager, Ashleyann McLeish (626) 656-0407 for Certified

d. Topcoat: Dur-A-Flex, Inc. Poly-Crete Color Fast resin, hardener and powdered aggregate.

a. Topping: Dur-A-Flex, Inc, Poly-Crete SL resin, hardener and SL aggregate. b. The aggregate shall be Dur-A-Flex, Inc. Flintshot quartz aggregate.

a. Shallow Fill and Patching: Use Dur-A-Flex, Inc. Poly-Crete SL (up to ¼ inch).

b. Deep Fill and Sloping Material (over ¼ inch): Use Dur-A-Flex, Inc. Dur-A-Tex UM

B. Manufacturer of Approved System shall be single source and made in the USA.

Non-related personnel in the work area shall be kept to a minimum.

B. Conditions of new concrete to be coated with cementitious urethane material.

Sealers and curing agents should not to be used.

possible delamination of the system.

the application of the coating system pending moisture tests.

Resinous flooring system as shown on the drawings and in schedules

Manufacturer's Safety Data Sheet (SDS) for each product being used.

finished system subject to normal tolerances.

industrial flooring and related materials.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

batch number.

preparation and application of the product specified.

SECTION 09 67 23-RESINOUS FLOORING

A. This section includes the following:

B. Related sections include the following:

1.3 SYSTEM DESCRIPTION

1.4 SUBMITTALS

1.5 QUALITY ASSURANCE

A. Packing and Shipping

B. Storage and Protection

1.7 PROJECT CONDITIONS

A. Site Requirements

C. Safety Requirements

1.8 WARRANTY

PART 2 - PRODUCTS

System Materials:

2.1 FLOORING

2.Patch Materials

2.2 MANUFACTURER

2.3 PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.2 SUMMARY

1.1 RELATED DOCUMENTS

Examine substrates, areas and conditions, with Applicator present, for compliance with requirements for maximum moisture content, installation tolerances and other conditions affecting flooring performance.

a. Temperature

b. Coverage Rates

3.5 CLEANING AND PROTECTION

SECTION 09900 - PAINTING

OTHER SECTIONS.

1. Air, substrate temperatures and, if applicable, dew point.

THESE THE SAME AS DJACENT SIMILAR MATERIALS OR AREAS.

4.5. OPERATING PARTS AND LABELS

ESTABLISHED INDUSTRY STANDARDS.

1. Rates for all layers shall be monitored by checking quantity of material used against the area covered.

and prior to completion of the curing process.

A. Cure flooring material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of

1. PAINT ALL EXPOSED SURFACES, BOTH NEW AND EXISTING, THROUGHOUT THE PROJECT, EXCEPT AS EXCLUDED IN PARAGRAPH 4 BELOW.

Remove masking. Perform detail cleaning at floor termination, to leave cleanable surface for subsequent work of other sections.

SURFACE PREPARATION, PRIMING AND COATS OF PAINT SPECIFIED ARE IN ADDITION TO SHOP PRIMING AND SURFACE TREATMENT SPECIFIED IN

PAINT ALL EXPOSED SURFACES WHETHER OR NOT COLORS ARE DESIGNATED, EXCEPT WHERE THE NATURAL FINISH OF THE MATERIAL IS OBVIOUSLY

INTENDED OR SPECIFICALLY NOTED AS A SURFACE NOT TO BE PAINTED. WHERE ITEMS OR SURFACES ARE NOT SPECIFICALLY MENTIONED, PAINT

PAINTING NOT INCLUDED: THE FOLLOWING SURFACES ARE NOT TO BE PAINTED OR THEIR PAINTING IS INCLUDED IN OTHER SECTIONS OF THESE

4.1. FINISHED (NOT PRIMED) MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING LIGHT FIXTURES, SWITCHGEAR AND DISTRIBUTION

4.3. FINISHED METAL SURFACES SUCH AS ANODIZED ALUMINUM, STAINLESS STEEL, CHROMIUM PLATING, COPPER, BRONZE, BRASS AND

4.4. PAINTING IS NOT REQUIRED ON WALLS OR CEILINGS IN CONCEALED AND INACCESSIBLE AREAS, SUCH AS FURRED AREAS AND PIPE SPACES.

ENVIRONMENTAL REQUIREMENTS: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR ENVIRONMENTAL CONDITIONS REGARDING PAINT

QUALITY AND MANUFACTURE: USE BEST QUALITY GRADE REGULARLY MANUFACTURED BY ONE OF THE MANUFACTURERS LISTED BELOW, UNLESS

PAINT COMPATIBILITY: PROVIDE FINISH COATS COMPATIBLE WITH THE PRIME COATS USED. REVIEW OTHER SECTIONS OF THESE SPECIFICATIONS IN

PREPARE SURFACES TO RECEIVE THE SPECIFIED FINISHES IN ACCORDANCE WITH THE PAINT MANUFACTURER'S PRINTED INSTRUCTIONS AND

10. REMOVE ALL HARDWARE, HARDWARE ACCESSORIES, MACHINED SURFACES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS IN PLACE AND NOT TO

BE PAINTED, OR PROVIDE SURFACE APPLIED PROTECTION PRIOR TO SURFACE PREPARATION AND PAINTING. FOLLOWING COMPLETION OF

BRUSH MARKS, STREAKS, LAPS OR SKIPPED AND MISSED AREAS. LEAVE ALL CORNERS WITH NO UNDUE AMOUNT OF PAINT BUILDUP.

APPLY PAINT ONLY UNDER CONDITIONS THAT WILL ENSURE FINISHES FREE FROM BLEMISHES AND DEFECTS. MAKE FINISH COATS SMOOTH, FREE OF

PRIMER AND INTERMEDIATE COATS SHALL BE UNSCARRED AND COMPLETELY INTEGRAL WHEN SUCCEEDING COATS ARE APPLIED. SAND AND DUST

REMOVE PAINT SPILLAGE AND SPATTERS ON ADJACENT SURFACES SO AS NOT TO DAMAGE THE SURFACE BEING CLEANED. PERFORM ALL PATCHING

AND REPAIRS REQUIRED BECAUSE OF PAINTING OPERATIONS. REFINISH ENTIRE PANEL OR ASSEMBLY WHERE PORTION OF FINISH HAS BEEN

14. PAINT INTERIOR SURFACES OF DUCTS WITH A FLAT NON-SPECULAR BLACK PAINT WHERE VISIBLE THROUGH REGISTERS AND GRILLES.

15. THE NUMBER OF COATS SPECIFIED IS THE MINIMUM REQUIRED FOR COMPLETE COVERAGE AND UNIFORMITY OF COLOR. APPLY ADDITIONAL

16. COMPLETELY COVER SURFACES TO BE PAINTED TO PROVIDE AN OPAQUE, SMOOTH SURFACE OF UNIFORM FINISH, COLOR, APPEARANCE, AND

3. STOREFRONT AND/OR STREET FRONTAGE SIGNAGE WILL BE PROVIDED AND INSTALLED BY OWNER VENDOR. PROVIDE BACKING, ACCESS AND

5.1. PROVIDE AND INSTALL DIE-CUT PRESSURE SENSITIVE VINYL INTERNATIONAL SYMBOL OF ACCESSIBILITY BY PHYSICALLY

PROVIDE OTHER IDENTIFYING DEVICES REQUIRED BY LOCAL CODES OR JURISDICTION AT NO ADDITIONAL COST TO THE OWNER.

INSTALL SIGNAGE LEVEL, PLUMB AND AT HEIGHT INDICATED, WITH SIGN SURFACES FREE FROM DISTORTION AND OTHER DEFECTS.

1. UNIFORMITY: ALL TOILET ROOM ACCESSORIES INSTALLED ON THE PROJECT SHALL BE PRODUCTS OF ONE MANUFACTURER, EXCEPT AS NOTED.

4. FINISH: EXPOSED SURFACES SHALL HAVE AISI NO. 4 FINISH, EXCEPT WHERE A KNURLED SURFACE IS SPECIFIED FOR GRAB BARS.

COORDINATE INSTALLATION WITH OTHER TOILET ROOM ACCESSORIES FOR PROPER INSTALLATION AND FUNCTION.

7. DRILL HOLES TO CORRECT SIZE AND LOCATION. INSTALL ACCESSORIES PLUMB, LEVEL AND AT THE SPECIFIED HEIGHTS.

EXECUTION OF THIS WORK ARE CORRECTED BEFORE PROCEEDING WITH INSTALLATION.

INSTALLATION SHALL COMPLY WITH THE DISABLED ACCESS REQUIREMENTS OF THE APPLICABLE BUILDING CODE, ALL LOCAL AND STATE CODES

COMPLY WITH THE APPLICABLE REQUIREMENTS OF SECTION 01600. KEEP PROTECTIVE COVERS ON ACCESSORIES UNTIL THEIR INSTALLATION IS

5. CHECK OPENINGS AND SUPPORTS TO RECEIVE ACCESSORIES AND MAKE SURE THAT UNSUITABLE CONDITIONS THAT WOULD EFFECT QUALITY AND

5.2. COLOR: WHITE GRAPHICS ON CLEAR BACKGROUND OR WHITE GRAPHICS ON BLACK BACKGROUND.

REAR ENTRY DOOR IDENTIFICATION WILL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE APPLICATION AND LANDLORD

HANDICAPPED/DISABLED PERSON. PROVIDE ONE (1) SYMBOL MOUNTED ON INSIDE OF GLASS AS INDICATED ON THE DRAWINGS.

6.1. INSTALL SIGNAGE AT RESTROOM DOORS AS INDICATED IN DRAWINGS PROVIDE RAISED BRAILLE LETTERING. COMPLY WITH THE DISABLED

MOUNT USING STANDARD FASTENING METHODS RECOMMENDED BY MANUFACTURER. PROVIDE HEAVY WEIGHT PAPER TEMPLATE TO ESTABLISH

ACCESS REQUIREMENTS OF THE APPLICABLE BUILDING CODE, ALL LOCAL AND STATE CODES AND AMERICANS WITH DISABILITIES ACT (ADA).

COATS WHEN UNDERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH THE FINAL FINISH UNTIL THE FINISH IS OF UNIFORM COLOR AND

COVERAGE. PAINTED SURFACES WITH CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS OR OTHER IMPERFECTIONS

BRUSH OUTS ARE PROVIDED TO OWNER FOR SIGNED APPROVAL OF SUBSTITUTION. INSOFAR AS PRACTICABLE EACH PAINT SHALL BE FACTORY

MIXED TO MATCH APPROVED SAMPLES AND COLORS, AND BE OF A CONSISTENCY PERMITTING IMMEDIATE APPLICATION.

WHICH PRIME COATS ARE SPECIFIED AND BE RESPONSIBLE FOR THE COMPATIBILITY OF THE TOTAL COATING SYSTEM.

PAINTING EACH SPACE OR AREA, REINSTALL THE REMOVED ITEM BY WORKMEN SKILLED IN THE TRADES INVOLVED.

4.2. FACTORY FINISHED ITEMS SUCH AS (BUT NOT LIMITED TO) FINISH HARDWARE AND STOREFRONT.

SIMILAR FINISHED MATERIALS WILL NOT REQUIRE FINISH PAINTING.

APPLICATION. DO NOT APPLY FINISH IN AREAS WHERE DUST IS BEING GENERATED.

BETWEEN EACH COAT TO REMOVE DEFECTS VISIBLE FROM A DISTANCE OF 5 FEET.

1. PROVIDE COORDINATION AND BACKING FOR SIGNAGE PROVIDED BY OWNER VENDOR.

PROVIDE INTERIOR SIGNAGE AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

REQUIREMENTS. REFER TO DOOR SCHEDULE ON DRAWINGS.

6.2. COLOR: WHITE GRAPHICS ON BLACK BACKGROUND.

SPACING AND TO LOCATE HOLES FOR FASTENERS.

SECTION 10800 - TOILET ROOM ACCESSORIES

AND AMERICANS WITH DISABILITIES ACT (ADA).

COMPLETE, THEN REMOVE AT FINAL CLEAN-UP.

DAMAGED OR IS NOT ACCEPTABLE TO THE OWNER.

SECTION 10400 - IDENTIFYING DEVICES

POWER AS INDICATED ON THE DRAWINGS.

EXTERIOR ENTRANCE DOORS:

6. RESTROOMS:

8. PAINT SPECS: NO EXCEPTIONS/NO SUBSTITUTIONS - PER FINISH SCHEDULE.

Verify that substrates and conditions are satisfactory for flooring installation and comply with requirements specified.

New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss, algae growth, laitance, friable matter, dirt, and bituminous products.

Moisture Testing: Perform tests recommended by manufacturer and as follows. a. Perform relative humidity test using is situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 99% relative humidity level measurement. b. If the relative humidity exceeds 99% then the Owner and/or Engineer shall be notified and advised of additional cost for the possible installation of a vapor mitigation system that has been approved by the manufacturer or other means to lower the value to the acceptable

Mechanical surface preparation a. Shot blast all surfaces to receive flooring system with a mobile steel shot, dust recycling machine (Blastrac or equal). All surface and embedded accumulations of paint, toppings hardened concrete layers, laitance, power trowel finishes and other similar surface characteristics shall be completely removed leaving a bare concrete surface having a minimum profile of CSP 4-5 as described by the International Concrete Repair Institute.

b. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment. c. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 3/16" deep and 1/4" wide key cut shall be made to properly seat the system, providing a smooth transition between areas. The detail cut shall also apply to drain perimeters and expansion joint edges. d. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chipped-out and repaired per manufacturer's

recommendations. 4. At spalled or worn areas, mechanically remove loose or delaminated concrete to a sound concrete and patch per manufactures recommendations.

3.3 APPLICATION

A. General

The system shall be applied in three distinct steps as listed below: Substrate preparation

Topping/overlay application with quartz aggregate broadcast. Topcoat application

Immediately prior to the application of any component of the system, the surface shall be dry and any remaining dust or loose particles shall removed using a vacuum or clean, dry, oil-free compressed air. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the

Manufacturer's recommendations. The system shall follow the contour of the substrate unless pitching or other leveling work has been specified by the Architect.

A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.

The topping shall be applied as a self-leveling system as specified by the Architect. The topping shall be applied in one lift with a nominal

The topping shall be comprised of three components, a resin, hardener and filler as supplied by the Manufacturer. The hardener shall be added to the resin and thoroughly dispersed by suitably approved mechanical means. SL Aggregate shall then be added to the catalyzed mixture and mixed in a manner to achieve a homogenous blend.

The topping shall be applied over horizontal surfaces using ½ inch "v" notched squeegee, trowels or other systems approved by the Manufacturer. Immediately upon placing, the topping shall be degassed with a loop roller.

Quartz aggregate shall be broadcast to excess into the wet material at the rate of 0.75 lbs/sf.

Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.

The intermediate coat shall be mixed and applied per manufacturer recommended procedure. The intermediate coat shall be comprised of three components, a resin, hardener and filler as supplied by the Manufacturer. The intermediate coat will be applied at the rate of 180 sf per Jumbo kit.

D. Top Coat

The Top Coat shall be mixed and applied per manufacturer recommended procedure.

The topcoat shall be comprised of three components, a resin, hardener and filler as supplied by the Manufacturer. The Top Coat will be applied at the rate of 200-230 sf per large kit for specified texture. Non-Skid if required is broadcast at the rate of 1 lb per 100 sf and back rolled into the coating. The finish floor will have a nominal thickness of 3/16 inch.

3.4 FIELD QUALITY CONTROL

A. Tests, Inspection

The following tests shall be conducted by the Applicator:

8. ATTACH ACCESSORIES WITH SCREWS OR BOLTS TO STEEL STUDS OR BACKING PLATES. DO NOT USE MOLLY OR TOGGLE BOLTS IN GYPSUM BOARD.

ADJUST ACCESSORIES FOR PROPER OPERATION. AFTER COMPLETION OF INSTALLATION, CLEAN AND POLISH EXPOSED SURFACES AFTER REMOVAL OF PROTECTIVE COVERINGS.

10. DELIVER KEYS AND INSTRUCTION SHEETS TO OWNER.

TEL 510.836.5400 URL lowneyarch.com 360 seventeenth street | suite 200 | oakland, california 94612

METRO SLOPES

50 BRODERICK RD, BURLINGAME, CA 94010

ISSUES & REVISIONS

	4/25/2025	PERMIT SUBMITTAL
Α	8/13/2025	PERMIT
		RESUBMITTAL

DATE

CHECKED BY: PROJECT NUMBER: OAK24-CO-052 CONSULTANT PROJECT NO: SHEET TITLE:

SPECIFICATIONS

SHEET NUMBER

