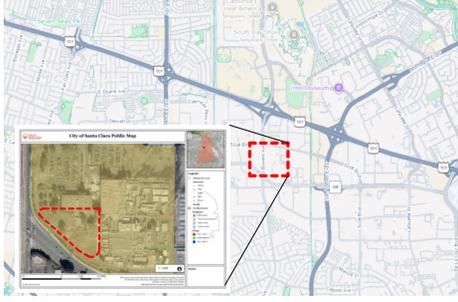


# BW2 + CUB2 PROJECT INTEL MASK OPERATIONS ARCHITECTURAL REVIEW PACKAGE

FILE NO. PLN25-00132  
INTEL CORP 3065 BOWERS AVENUE, SANTA CLARA, CA 95054

## PROJECT LOCATION



## OVERHEAD VIEW FROM BOWERS AVENUE



## PROJECT DESCRIPTION

THE INTEL BOWERS CAMPUS IS APPROXIMATELY 26 ACRES IN SIZE AND IS LOCATED NORTH OF CENTRAL EXPRESSWAY BETWEEN BOWERS AVENUE AND CORONADO DRIVE. THE CAMPUS IS HOME TO THE INTEL MASK OPERATIONS (MO) FACTORY, MASKS, WHICH ARE TEMPLATES USED TO TRANSFER AND PRINT DESIGNED CIRCUITRY ONTO SILICON WAFERS, ARE THE CRITICAL FIRST STEP IN THE INTEL SEMICONDUCTOR MANUFACTURING PROCESS, AND INTEL'S WORLDWIDE CHIP-MAKING FACILITIES ARE DEPENDENT ON MASKS FROM MO. INTEL IS WORKING TO MEET THE CONTINUED GROWTH AND DEMAND IN THE WORLDWIDE SEMICONDUCTOR INDUSTRY, ALONG WITH AN IMMEDIATE GLOBAL SHORTAGE OF SEMICONDUCTORS, AS WELL AS THE NEED FOR ADDITIONAL PRODUCTION IN THE UNITED STATES.

THE PROJECT PROPOSES THE DEVELOPMENT OF A NEW MANUFACTURING BUILDING CONSISTING OF 4 NEW FAB (BW2) WITH AN ATTACHED CENTRAL UTILITY BUILDING (CUB2) AREA TO SERVE THE PLANNED MANUFACTURING EQUIPMENT. THE PROPOSED BUILDING WILL BE CONSTRUCTED ON AN APPROXIMATELY 2.4-ACRE SITE AREA OF THE SOUTHWEST CORNER OF THE EXISTING CAMPUS. THE PROJECT SITE IS LOCATED SOUTH OF THE EXISTING SCI AND FANDECK BUILDINGS, NEAR THE SOUTHWESTERN PERIMETER OF THE CAMPUS ALONG CENTRAL EXPRESSWAY.

THE PROPOSED MANUFACTURING AND CUB BUILDINGS WILL BE THREE-STORY STRUCTURES AND WILL HAVE A TOTAL GROSS FLOOR AREA OF 101,871 SQUARE FEET, INCLUDING APPROXIMATELY 77,533 SQUARE FEET OF MANUFACTURING SPACE AND 24,338 SQUARE FEET OF CUB SPACE. THE BUILDING DESIGN WILL MATCH THE LOOK AND FEEL OF THE BUILDING MATERIALS AND SCREENING FOR THE RECENT CUB PROJECT ON THE WESTERN PORTION OF THE CAMPUS. THE MANUFACTURING AREA WILL INCLUDE MANUFACTURING SPACE, DATA SERVICES, ELECTRICAL AND POWER FACILITIES, AND STORAGE AREAS. THE BUILDING WILL ALSO INCLUDE LOBBY SPACE, RESTROOMS, AND FIRE SUPPRESSION AND SAFETY EQUIPMENT. THE CUB PORTION OF THE BUILDING WILL HOUSE CHILLERS, COOLING TOWERS, PUMPS AND PIPING, INSTRUMENTATION AND CONTROL EQUIPMENT, EMERGENCY BACKUP GENERATORS, AND OTHER MECHANICAL EQUIPMENT TO SUPPORT THE NEW MANUFACTURING OPERATIONS. THE PROPOSED BUILDING WILL HAVE A MAXIMUM HEIGHT OF APPROXIMATELY 101 FEET TO THE TOP OF THE RAFTER(S).

## SITE DATA

PROJECT SITE FLOOR AREA RATIO (FAR) CALCULATIONS	
PROPOSED BAW2+CUB2	TOTAL (Sq. Ft.)
PROJECT SITE	194,544 (2.4 ACRES)
FAR (TOTAL GROSS SF/TOTAL SITE AREA)	0.67

SITE DATA	
Lot Size	25.9 acres or 1,128,099 Sq. Ft.
Zoning	HO-RO - High Intensity Office/ Research and Development

## ZONING COMPLIANCE SUMMARY

GROSS BUILDING AREA TO FACE OF EXTERIOR WALL

CAMPUS FLOOR AREA RATIO (FAR) CALCULATIONS			
EXISTING GFA (Sq. Ft.)	H4 FAB+CUB (Sq. Ft.)	TOTAL GFA (Sq. Ft.)	FAR (F)
531,707	101,871	633,578	0.53
LONG TERM TEMPORARY	22,889	127,720	25,389
COVERED EXTERIOR WALKWAYS	29,867	7,709	40,595
TOTAL BUILDING GROSS FLOOR AREA (GFA)	587,263	107,171	694,434
FAR TOTAL GROSS SF/TOTAL SITE AREA	0.51	0.59	0.64

\*Includes FAR for 200K sq. ft. of existing parking expansion currently under permitting with City.

PARKING CALCULATIONS				
PARKING CODE REQUIREMENTS	EXISTING	H4 FAB+CUB	TOTAL	PARKING
Industrial (1,000 SqFt)	93,292	93	93,385	138
Research & Development (1,750 SqFt)	92,085	123	13,396	17
Data Center (1,100,000 SqFt)	50,872	1	10,969	1
TOTAL PARKING REQUIRED	237.3		43.3	281
SITE PARKING AVAILABLE*				435

\*Note: No additional Head count to be added for the project.

NOTE: AS REQUIRED TO RESPOND TO CURRENT CITY OF SANTA CLARA PLANNING DEPARTMENT COMMENTS, RAW HAS REEVALUATED SELECT SHEETS TO REFLECT THE CHANGES. ANY CHANGES, IDENTIFIED BY CHANGES, SUBMITTED TO THE CITY FOR APPROVAL, HAS NOT BEEN CHANGED AND REMAIN THE RESPONSIBILITY OF RAW OR ITS CONSULTANTS.

## PROJECT DATA

SCOPE OF WORK SUMMARY: NEW CENTRAL UTILITY BUILDING (CUB) AND MANUFACTURING FACILITY  
PROJECT ADDRESS: 3065 BOWERS STREET, SANTA CLARA, CA 95054  
OWNERS INFORMATION: INTEL CORPORATION, 3065 BOWERS STREET, SANTA CLARA, CA 95054

## PROJECT CONTACTS

CLIENT: INTEL CORPORATION, CALIFORNIA TECHNOLOGY & MANUFACTURING GROUP, 3065 BOWERS AVENUE, SANTA CLARA, CA 95054  
APPLICANT/PROJECT CONTACT: JHS CONSULTING, 1675 SCENIC AVE., SUITE 200, COSTA MESA, CA 92626  
PHONE: 949-225-1598, EMAIL: john@jhsconsult.com

ARCHITECT/ENGINEER: RAW Architectural Engineers, 235 MONTGOMERY ST., SUITE 400, SAN FRANCISCO, CA 94104  
P.O.C: VI BRACCO, PHONE: 415-771-8500, EMAIL: vbracco@raw.com  
LANDSCAPE ARCHITECT: CROP INC., 1675 SCENIC AVE., SUITE 200, COSTA MESA, CA 92626  
P.O.C: JIM BALDWIN, PHONE: 949-225-1598, EMAIL: jbalwin@crop.com



## SHEET LIST

Sheet Number	Sheet Name	Current Revision	Current Revision Date	Current Revision Description
A101	COVER PAGE & SITE INFORMATION	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
A102	CALGREEN REQUIREMENTS - PRELIMINARY	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A103	CALGREEN REQUIREMENTS - PRELIMINARY	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A104	CALGREEN REQUIREMENTS - PRELIMINARY	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A105	CALGREEN REQUIREMENTS - PRELIMINARY	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A106	NEW CORRIDOR PUBLIC WAY DIAGRAMS	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A107	EXISTING SITE INFORMATION	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A108	PROPOSED OVERALL SITE PLAN	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A109	PROPOSED DETAIL SITE PLAN	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A110	EXISTING CAMPUS FIRE ACCESS PLAN	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A111	EXISTING & PROPOSED FIRE ACCESS PLAN	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A112	SITE AREA CALCULATIONS	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A113	CODE SUMMARY	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A114	BW2 AND CUB2 - ARCHITECTURE OVERALL - AAA PROPOSED	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
A115	GARAGE TRUCK ACCESS PLAN	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A201	LIFE SAFETY PLAN - GROUND LEVEL	A	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A202	LIFE SAFETY PLAN - SECOND LEVEL	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A203	LIFE SAFETY PLAN - THIRD LEVEL (FAB)	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A204	LIFE SAFETY PLAN - THIRD LEVEL (FAN DECK)	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A205	SCHEMATIC ROOF PLAN	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A206	ADJ LINK VIEWS	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A207	NEW TRASH ENCLOSURE	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
A301	CONCEPTUAL SECTIONS - FAB	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A302	CONCEPTUAL SECTIONS - CUB	B	08/01/25	PLANNING DEPARTMENT COMMENT RESPONSE 1
A401	CONCEPTUAL BUILDING ELEVATIONS (FAB)	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
A402	CONCEPTUAL BUILDING ELEVATIONS (CUB)	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
A403	RENDERED VIEWS	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
A404	RENDERED VIEWS	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
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A519	RENDERED VIEWS	C	10/03/25	PLANNING DEPARTMENT COMMENT RESPONSE 2
A520	RENDERED			



# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by the ratio and proportionally the required electrical load capacity to its service panel or sub-panel.

5.106.5.6.2.2 EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accommodated by the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for DCFCs installed in accordance with Section 5.106.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVSE shall be reduced by the amount of EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to any EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.6.3 EVSE alternate compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1 or low power Level 2, or Level 2, or any combination of Level 1 or low power Level 2 and Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3

NUMBER OF PARKING SPACES IN A PARKING FACILITY	MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	53
Total required MW = P ÷ 66	
Where P = Parking spaces in facility	

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without the use of a new or existing building.

5.106.5.6.4.1 Alterations of or additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.3 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to or electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.3 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4.309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with California Building Code Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

5.106.5.6.6 LIGHT POLLUTION REDUCTION. (N) Outdoor lighting systems shall be designed and installed to comply with the following:

- The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-11.4 of the California Administrative Code; and
  - Lighting (L) ratings as defined in IES TM-11.1 shown in Table A.1 in Chapter 8; and
  - Lighting and glare ratings as defined in California Energy Code (shown in Tables 130.2.0.4 and 130.2.0.8 in Chapter 8); and
  - Allowable BUG ratings not exceeding those shown in Table 5.106.5.6.6. (N) or comply with a local ordinance locally enacted pursuant to Section 107.7, whenever it is more strict.
- Exceptions: (N)
- Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
  - Emergency lighting.
  - Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
  - Custom lighting fixtures as allowed by the local enforcing agency, as permitted by Section 108.1.
  - Alternate methods, designs and methods of construction.
  - Luminaires with less than 0.200 initial luminaire lumens.

TABLE 5.106.5.6.6 MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS. (N)

ALLOWABLE RATING	LIGHTING ZONE				
	LIGHTING ZONE L2Z	LIGHTING ZONE L2L1	LIGHTING ZONE L2L2	LIGHTING ZONE L2L3	LIGHTING ZONE L2L4
<b>MAXIMUM ALLOWABLE BACKLIGHT RATING:</b> Luminance greater than 2 foot-candles (fH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminance back hemisphere is 1.2 fH from property line	N/A	B2	B3	B4	B4
Luminance back hemisphere is 0.5-1 fH from property line	N/A	B1	B2	B3	B3
Luminance back hemisphere is less than 0.5 fH from property line	N/A	B0	B0	B1	B2
<b>MAXIMUM ALLOWABLE UPLIGHT RATING (U):</b> For area lighting	N/A	U0	U0	U0	U0
For all other outdoor lighting including decorative luminaires	N/A	U1	U2	U3	UR
<b>MAXIMUM ALLOWABLE GLARE RATING (G):</b> MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G1	G2	G3	G4
<b>MAXIMUM ALLOWABLE GLARE RATING (G):</b> MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G1	G1	G2
<b>MAXIMUM ALLOWABLE GLARE RATING (G):</b> MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G0	G1	G1
<b>MAXIMUM ALLOWABLE GLARE RATING (G):</b> MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 0 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

2. For property lines that are not public sidewalks, sidewalks, plazas and parking lots, the property line may be considered to be 3 feet beyond the actual property line for purposes of determining compliance with this section. For property lines that are public sidewalks, sidewalks, plazas and parking lots, 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 section.

3. General lighting luminaires in areas such as outdoor parking, stairs or storage lots shall meet these reduced ratings. Decorative luminaires in areas such as outdoor parking, stairs or storage lots shall meet these reduced ratings.

5.106.5.7 Fencing Backlight  
Luminaires within 24" 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 5.106.5.6 based on the lighting zone and distance to nearest property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equivalent point to the luminaires, then the luminaires may be centered so that the intersection of the two lines (the corner) directly behind the luminaire. The luminaire shall use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

5.106.5.7.2 Fencing Code  
For luminaires covered by 5.106.5.1, if a property line also extends into or extends from the front hemisphere of the luminaire, the luminaire shall be oriented so that the intersection of the two lines (the corner) directly behind the luminaire. The luminaire shall use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

Table 5.106.5.8 based on the lighting zone and distance to nearest point on the property line within the hemisphere.

Note: (N)

- See also California Building Code, Chapter 12, Section 1206.6 for college campus lighting requirements for parking facilities and walkways.
- Refer to Chapter 8 Compliance Forms, Worksheets and Reference Material for IES TM-11.1 Table A.1, California Energy Code Tables 130.2.0.4 and 130.2.0.8.
- Refer to the California Building Code for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how to grade 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:

- Swales.
- Water collection and disposal systems.
- French drains.
- Water retention gardens.
- Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Water retention gardens shall be designed to be aesthetically pleasing, and shall be designed to be aesthetically pleasing, and shall be designed to be aesthetically pleasing.

5.106.10.2 SHADE TREES (DAS-SS). Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Requirements shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain trees 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.

Exception: Surface parking areas covered by solar photovoltaic shade structures with roofing materials that provide shade over 50 percent of the parking area within 15 years.

5.106.12.2 Landscaping areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the building footprint within 15 years.

Exception: Playfields for organized sports activity are not included in the total area calculation.

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

Exception:

- Walks, hardscaping areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A.6 in 106.11.2.2 Appendix A.6 shall be permitted in whole or in part in lieu of shade tree planting.
- Designated and marked play areas of organized sports activity are not included in the total area calculation.

## DIVISION 5.2 ENERGY EFFICIENCY

5.201.1 Scope (BSC-C). California Energy Code (DGA-SS). For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will issue a list of mandatory building energy efficiency standards in this code, the California Energy Commission will issue a list of mandatory building energy efficiency standards in this code, the California Energy Commission will issue a list of mandatory building energy efficiency standards in this code.

## DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

5.301.1 GENERAL. The following table shall establish the means of conserving water indoors, outdoors and in wastewater collection.

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

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

FOOTPRINT AREA (DAS-SS). The total area of the footprint exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METRIC FAUCET. A self-closing faucet that dispenses a specific volume of water for each activation 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, contaminant, or unhealthy bodily wastes, and does not present a hazard to public health through direct or indirect consumption, manufacture, or generation. "Graywater" includes, but is not limited to, wastewater from lavatories, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regarding landscape design, installation and maintenance practices that will ensure compliance, multifamily and other developer installed landscapes greater than 2000 square feet meet an irrigation water budget developed based on landscape area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) (DAS-SS). The California model ordinance regarding landscape design, installation and maintenance practices that will ensure compliance, multifamily and other developer installed landscapes greater than 2000 square feet meet an irrigation water budget developed based on landscape area and climatological parameters.

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 (DAS-SS). Water that is suitable 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 Health Jurisdiction.

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 1350) (N). Strictly put, recycled water is water that has been treated to a quality that is suitable to use the water again.

SUBMITTER (DAS-SS). A secondary device beyond a meter that measures water consumption of an individual rental unit or a multifamily residential structure or mixed-use residential and commercial structure. (See Civic Code Section 104.02 (g) and Water Code Section 107 for additional details.)

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

## SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submitters or metering devices shall be installed for the uses described in Sections 603.1.1 and 603.1.2.

5.303.1.1 Buildings in excess of 100,000 square feet. Separate submitters shall be installed as follows:

- For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gallons (380 Liters), including, but not limited to, spaces used for laundry or other uses, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
- Where separate submitters for individual building tenants are unfeasible, for water or other utility uses, including:

- Making water for cooling towers where flow through is greater than 500 gpm (30 L/s).
  - Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).
- 5.303.1.2 Excess consumption. An separate submitter or metering device shall be provided for any tenant within a new building with an addition such that it is projected to consume more than 1,000 gallons.

## SECTION 5.303 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS

5.303.1.1 Water Closures. The effective flush volume of air water closets shall not exceed 1.20 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals. (N)

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showersheds (BSC-C). (N)

5.303.3.3.1 Single Showersheds. Showersheds shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showersheds shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showersheds.

5.303.3.3.2 Multiple Showersheds serving one shower. When a shower is served by more than one showershed, the combined flow rate of all the showersheds and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, and the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showershed.

5.303.3.3.3 Multiple Showersheds serving one shower. When a shower is served by more than one showershed, the combined flow rate of all the showersheds and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, and the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showershed.

5.303.3.4 Faucets and Fixtures. (N)

5.303.3.4.1 Nonresidential Lavatory Faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 80 psi.

5.303.3.4.2 Kitchen Faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, and for not more than 2.0 gallons per minute at 80 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 80 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi.

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per minute.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets shall not deliver more than 0.20 gallons per minute at 80 psi (inches) at 80 psi.

Note: Where complying faucets are unavailable, alternate or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray valves. When installed, pre-rinse spray valves in the California Code of Regulations, Title 20 (Agriculture Efficiency Regulations), Section 1605.1 (h)(1) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (6)(7), and shall be equipped with an integral aerator.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Agriculture Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2  
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS (spray force in ounce force (ozf))	MAXIMUM FLOW RATE (gpm)
Product Class 1 (5.0 ozf)	1.50
Product Class 2 (5.0 ozf and 8.0 ozf)	1.50
Product Class 3 (8.0 ozf)	1.26

5.303.4 COMMERCIAL KITCHEN EQUIPMENT. (N)

5.303.4.1 Food Waste Disposers. Disposers shall either maintain the use of water to no more than 1 gpm when the disposer is not in use (meat grinding food waste disposer) or shall automatically shut off after no more than 15 minutes of inactivity. Disposers shall use no more than 8 gpm of water.

Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in addition or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 707.1.1 of the California Plumbing Code and in Chapter 8 of this code.

## SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources Model Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Note:

- The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 27, Division 2.
- MWELO and supporting documents, including a water budget calculator, are available at: <http://www.water.ca.gov>

5.304.2 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Section 5.304.1.1 and 5.304.1.2 shall comply with the California Department of Water Resources Model Efficient Landscape Ordinance (MWELO) commencing with Section 603 of Chapter 27, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with a national weather database for specific landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.3 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.4 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

## DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.401.1 GENERAL. The following table shall establish the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emissions reduction through requirements of buildings from exterior insulation, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning and testing and auditing.

## SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference):

ADJUST. To regulate fluid flow and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

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BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction 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.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 9000-3002) targets carbon emissions associated with the production of structural steel (hot-rolled shapes, hollow structural sections, and plate), concrete reinforcing steel, the glass, and rebar used in building construction. The maximum carbon footprint for these materials is defined by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering materials use, design, and material used board installation. The maximum carbon footprint for these materials is defined by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

ORGANIC WASTE. Food waste, green waste, landscape and pruning waste, non-hazardous wood waste, and food soiled paper waste that is mixed in with food waste.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

TEST. A procedure to determine quantitative performance of a system or equipment.

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Grave."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts may be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IWE-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing practices for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

## SECTION 5.403 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.403.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.403.2 MOISTURE CONTROL. Employ moisture control measures by the following methods:

- 5.403.2.1 Exterior and garage. Design and install landscape irrigation systems to prevent spray on structures.
- 5.403.2.2 Entries and openings. Charge exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:
  - 5.403.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:
    - An installed awning at least 4 feet in depth.
    - The door is protected by a roof overhang at least 4 feet in depth.
    - Other methods which provide equivalent protection.
  - 5.403.2.2.3 Flashing. Install flashings integrated with a drainage plane.

## SECTION 5.404 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.404.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage to reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Sections 4.08.1.1, 4.08.1.2 or 4.08.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.404.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, adopt a construction waste management plan that:

- Identifies the construction and demolition waste materials to be diverted from disposal by efficient waste handling; reuse or the project or materials; and
- Determines if construction and demolition waste materials will be sorted on-site (source-separated) or both on-site and off-site.

5.404.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 4.08.1.1 and 4.08.1.2:

- Excavated soil and land-clearing debris.
  - Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item are not used.
  - Demolition waste meeting local ordinance or installation in consideration of local recycling facilities and markets.
- 5.404.1.3 Waste stream reduction alternative. The combined weight of new construction debris that does 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.

5.404.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 4.08.1.1, through 4.08.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Note:

- Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located under the "Appendix B" section of the California Green Building Standards Code.
- Material identification and demolition waste management plan may be used to assist in documenting compliance with the waste management plan.

5.404.2 UNIVERSAL WASTE (UW). Additions and alterations to a building or tenant space that meet the scoring provisions in Section 5.01.3 for nonresidential address and/or occupancy shall require verification that Universal Waste items such as fluorescent tubes and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are not diverted from landfill. As of prohibited Universal Waste materials shall be included in the construction and demolition waste management plan.

Note: Refer to the Universal Waste Rule link at: <http://www.dws.ca.gov/universalwaste/>

5.404.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Note:

- If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of material.
- For a final or interim Statewide Compliance Score, consult with the California Department of Food and Agriculture. ([www.cdafs.ca.gov](http://www.cdafs.ca.gov))

## SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 BSC-C (BSC-C) Effective July 1, 2024, projects consisting of newly constructed buildings with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. (Allowance) to existing buildings (N) The gross conditioned floor area is 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. (Allowance) to existing buildings (N) The gross floor area shall be the gross floor area of the building as of January 1, 2026. The combined floor area shall be 50,000 square

# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

Section	Section	Section																																																																																																					
<p><b>5.409.2 Whole building life cycle assessment.</b> Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14046 and ISO 14044, including operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar function, complexity, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment shall have a data set consistent with ISO 14046 and ISO 14044, and shall be consistent with ISO 21930 or EN 15954, and shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.</p> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>Software for calculating whole building life cycle assessment is available for the Athena Sustainable Materials Institute (athenasustainable.com/wholebuilding) and OneClick LCA (www.oneclicklca.com/wholebuilding). Other software tools, including but not limited to, Sphera Global Solutions (sphaera.com/), Simapro (simapro.com), OneClick LCA (www.oneclicklca.com) and Tally for Revit (tallyforrevit.com).</li> <li>ASTM E2931-22 Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems may be consulted for the assessment.</li> <li>In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.</li> </ol> <p><b>5.409.2.1 Building components.</b> Building envelope components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.</p> <p><b>5.409.2.2 Reference study period.</b> The reference study period of the proposed building shall be equal to the reference baseline building and shall be 90 years.</p> <p><b>5.409.2.3 Verification of compliance.</b> A summary of the GWP analysis produced by the software and Worksheet WS-9 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operating and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate accreditation of compliance. Inspection shall be performed by the design professional of record or third party accesor to the enforcing agency.</p>	<p><b>5.410.3.2 Verification of compliance.</b> Calculations to demonstrate compliance, Type III EPIPs for products requiring a manufacturer's Environmental Product Declaration (EPD) signed by the design professional of record shall be provided on the construction documents. Updated EPIPs for products used in construction shall be provided to the extent of the manufacturer's update of construction to be inspected and only upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate accreditation of compliance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.</p> <p><b>SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS</b></p> <p><b>5.410.1 RECYCLING OF OCCUPANTS.</b> Provide readily accessible areas that serve the entire building and are identified by the designer, above and below collection of non-hazardous materials for recycling, including (as a minimum) paper, recycled cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.</p> <p><b>Exception:</b> Retail jurisdictions that meet and apply for the exemption in Public Resources Code 42646.82 (a)(2)(A) or req. shall also be exempt from the organic waste portion of this section.</p> <p><b>5.410.1.1 Additions.</b> All additions constructed after a 12-month period under single or multiple permits, resulting in an increase of 50% or more in floor area, shall provide recycling areas on site.</p> <p><b>5.410.1.2 Sample enclosure.</b> Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Act of 1981 (CWR).</p> <p><b>Note:</b> A sample enclosure for use by local agencies may be found in Appendix A of the document at the CalRecycles website.</p> <p><b>5.410.2 COMMISSIONING (CM).</b> New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction process of the building project to 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 comparable size and complexity. For occupancies that are not regulated by CPHFO for occupancies and LEED certification, but are not regulated by the California Energy Code Section 100.3 Scope, all requirements in Sections 5.410.4 through 5.410.6 shall apply.</p> <p><b>Note:</b> For energy-related systems under the scope (Section 100.3) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems, see Section 100.3 of the California Energy Code Section 100.3 Scope, all requirements in Sections 5.410.4 through 5.410.6 shall apply.</p> <p><b>Commissioning requirements shall include:</b></p> <ol style="list-style-type: none"> <li>Owner's or Owner representative's project requirements.</li> <li>Based of design.</li> <li>Commissioning measures taken in the construction documents.</li> <li>Commissioning plan.</li> <li>Functional performance testing.</li> <li>Documentation and training.</li> </ol> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>Unconditioned warehouses of any size.</li> <li>Buildings used for offices or other conditioned accessory spaces within unconditioned warehouses.</li> <li>Tenant improvements within 10,000 square feet as described in Section 100.3.1.</li> <li>Open parking garages of any size, or open parking garage areas, of any size, within a structure.</li> </ol> <p><b>Note:</b> For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.</p> <p><b>Informational notes:</b></p> <ol style="list-style-type: none"> <li>Functional performance testing for heating, ventilation, air conditioning systems and lighting controls shall be performed in compliance with the California Energy Code.</li> <li>5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building operation to be phased shall be documented before the design phase of the project begins. This documentation shall include the following:             <ol style="list-style-type: none"> <li>Environmental and sustainability goals.</li> <li>Building sustainable goals.</li> <li>Indoor environmental and sustainability goals.</li> </ol> </li> <li>Project program, including facility requirements and hours of operation, and need for after hours operations.</li> <li>Equipment and systems expectations.</li> <li>Building occupant and operation and maintenance (O&amp;M) personnel expectations.</li> </ol> <p><b>5.410.2.2 Basis of Design (BOD).</b> [N] An written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:</p> <ol style="list-style-type: none"> <li>Renewable energy systems.</li> <li>Landscaping irrigation systems.</li> <li>Water reuse systems.</li> </ol> <p><b>5.410.2.3 Commissioning plan.</b> [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:</p> <ol style="list-style-type: none"> <li>Commissioning goals.</li> <li>Systems to be commissioned. Plans to test systems and components shall include:             <ol style="list-style-type: none"> <li>An expansion of the original design intent.</li> <li>Equipment and systems to be tested, including the extent of tests.</li> <li>Functions to be tested.</li> <li>Conditions under which the test will be performed.</li> <li>Measurable criteria for acceptable performance.</li> </ol> </li> <li>Commissioning team formation.</li> <li>Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.</li> </ol> <p><b>5.410.2.4 Functional performance testing.</b> [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.</p> <p><b>5.410.2.5 Documentation and training.</b> [N] A Systems Manual and Systems Operations Training are required including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.</p> <p><b>5.410.2.5.1 Systems manual.</b> [N] Documentation of the operational aspects of the building shall be completed within the system manual and delivered to the building owner or representative. The system manual shall include the following:</p> <ol style="list-style-type: none"> <li>Site information, including facility description, history and current requirements.</li> <li>Site contact information.</li> <li>Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.</li> <li>Major systems.</li> <li>Site equipment inventory and maintenance notes.</li> <li>A copy of warranties required by the enforcing agency, site visits.</li> <li>Other notices and documentation, if applicable.</li> </ol> <p><b>5.410.2.5.2 Systems operations training.</b> [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:</p> <ol style="list-style-type: none"> <li>System/equipment overview (what it is, what it does and what other systems and/or equipment it interfaces with).</li> <li>Review and demonstration of servicing/repairing methods.</li> <li>Review of the information in the System's Manual.</li> <li>Review of the record drawing of the systems/equipment.</li> </ol> <p><b>5.410.2.6 Commissioning report.</b> [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.</p> <p><b>5.410.4 TESTING AND ADJUSTING.</b> New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.</p>	<p><b>5.410.4.2 (Reserved)</b></p> <p><b>Note:</b> For energy-related systems under the scope (Section 100.3) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 100.3 for commissioning requirements and Sections 102.6, 102.6, 130.4, and 148.9(a)(3) for additional testing requirements of specific systems.</p> <p><b>5.410.4.2 Systems.</b> Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, at a minimum, as applicable to the project:</p> <ol style="list-style-type: none"> <li>Renewable energy systems.</li> <li>Water reuse systems.</li> <li>Water reuse systems.</li> </ol> <p><b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards.</p> <p><b>5.410.4.3.1 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Board National Standards as approved by the enforcing agency.</p> <p><b>5.410.4.4 Reporting.</b> After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.</p> <p><b>5.410.4.5 Operation and maintenance (O&amp;M) manual.</b> Provide the building owner or representative with detailed operating and maintenance instructions and copies of guarantees/warranties for each system. O &amp; M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.</p> <p><b>5.410.4.5.1 Inspections and reports.</b> Include a copy of all inspection verifications and reports required by the enforcing agency.</p>	<p><b>SECTION 5.503 FIREPLACES</b></p> <p><b>5.503.1 PREPLACES.</b> Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed wood-burning heater, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.</p> <p><b>5.503.1.1 Woodstoves.</b> Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.</p> <p><b>SECTION 5.504 POLLUTANT CONTROL</b></p> <p><b>5.504.1 TEMPORARY VENTILATION.</b> The permanent HVAC system shall not be used during construction if necessary to condition the building or areas of addition or alteration with the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or if the building is occupied during operation, at the conclusion of construction.</p> <p><b>5.504.3 Covering of dust and debris.</b> and protection of mechanical equipment during construction. At the time of rough installation and during operations on the construction site final finish of the heating and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.</p> <p><b>5.504.4 FINISH MATERIAL POLLUTANT CONTROL.</b> Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.</p> <p><b>5.504.4.1 Adhesive, sealants and caulks.</b> Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:</p> <ol style="list-style-type: none"> <li>Adhesive, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCQAD Rule 118B VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 118B prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene) except for sealants as specified in subsection 2. below.</li> <li>Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in unit of product, less packaging, which do not weigh more than one pound and do not contain more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507.</li> </ol>																																																																																																				
<p><b>5.409.3 Product GWP compliance—prescriptive path.</b> Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or faceted-EPD.</p>	<p><b>5.410.6 COMMISSIONING (CM).</b> New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction process of the building project to 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 comparable size and complexity. For occupancies that are not regulated by CPHFO for occupancies and LEED certification, but are not regulated by the California Energy Code Section 100.3 Scope, all requirements in Sections 5.410.4 through 5.410.6 shall apply.</p> <p><b>Note:</b> For energy-related systems under the scope (Section 100.3) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems, see Section 100.3 of the California Energy Code Section 100.3 Scope, all requirements in Sections 5.410.4 through 5.410.6 shall apply.</p> <p><b>Commissioning requirements shall include:</b></p> <ol style="list-style-type: none"> <li>Owner's or Owner representative's project requirements.</li> <li>Based of design.</li> <li>Commissioning measures taken in the construction documents.</li> <li>Commissioning plan.</li> <li>Functional performance testing.</li> <li>Documentation and training.</li> </ol> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>Unconditioned warehouses of any size.</li> <li>Buildings used for offices or other conditioned accessory spaces within unconditioned warehouses.</li> <li>Tenant improvements within 10,000 square feet as described in Section 100.3.1.</li> <li>Open parking garages of any size, or open parking garage areas, of any size, within a structure.</li> </ol> <p><b>Note:</b> For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.</p> <p><b>Informational notes:</b></p> <ol style="list-style-type: none"> <li>Functional performance testing for heating, ventilation, air conditioning systems and lighting controls shall be performed in compliance with the California Energy Code.</li> <li>5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building operation to be phased shall be documented before the design phase of the project begins. This documentation shall include the following:             <ol style="list-style-type: none"> <li>Environmental and sustainability goals.</li> <li>Building sustainable goals.</li> <li>Indoor environmental and sustainability goals.</li> </ol> </li> <li>Project program, including facility requirements and hours of operation, and need for after hours operations.</li> <li>Equipment and systems expectations.</li> <li>Building occupant and operation and maintenance (O&amp;M) personnel expectations.</li> </ol> <p><b>5.410.2.2 Basis of Design (BOD).</b> [N] An written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:</p> <ol style="list-style-type: none"> <li>Renewable energy systems.</li> <li>Landscaping irrigation systems.</li> <li>Water reuse systems.</li> </ol> <p><b>5.410.2.3 Commissioning plan.</b> [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:</p> <ol style="list-style-type: none"> <li>Commissioning goals.</li> <li>Systems to be commissioned. Plans to test systems and components shall include:             <ol style="list-style-type: none"> <li>An expansion of the original design intent.</li> <li>Equipment and systems to be tested, including the extent of tests.</li> <li>Functions to be tested.</li> <li>Conditions under which the test will be performed.</li> <li>Measurable criteria for acceptable performance.</li> </ol> </li> <li>Commissioning team formation.</li> <li>Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.</li> </ol> <p><b>5.410.2.4 Functional performance testing.</b> [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.</p> <p><b>5.410.2.5 Documentation and training.</b> [N] A Systems Manual and Systems Operations Training are required including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.</p> <p><b>5.410.2.5.1 Systems manual.</b> [N] Documentation of the operational aspects of the building shall be completed within the system manual and delivered to the building owner or representative. The system manual shall include the following:</p> <ol style="list-style-type: none"> <li>Site information, including facility description, history and current requirements.</li> <li>Site contact information.</li> <li>Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.</li> <li>Major systems.</li> <li>Site equipment inventory and maintenance notes.</li> <li>A copy of warranties required by the enforcing agency, site visits.</li> <li>Other notices and documentation, if applicable.</li> </ol> <p><b>5.410.2.5.2 Systems operations training.</b> [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:</p> <ol style="list-style-type: none"> <li>System/equipment overview (what it is, what it does and what other systems and/or equipment it interfaces with).</li> <li>Review and demonstration of servicing/repairing methods.</li> <li>Review of the information in the System's Manual.</li> <li>Review of the record drawing of the systems/equipment.</li> </ol> <p><b>5.410.2.6 Commissioning report.</b> [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.</p> <p><b>5.410.4 TESTING AND ADJUSTING.</b> New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.</p>	<p><b>SECTION 5.501 GENERAL</b></p> <p><b>5.501.1 SCORE.</b> The purpose of this chapter shall be to define the methods of including the quantity of all contaminants that have been covered from a manufacturing facility, or other source of emissions, to the building and its neighbors.</p> <p><b>SECTION 5.502 DEFINITIONS</b></p> <p><b>ARTERIAL HIGHWAY.</b> A general term denoting a highway primarily for through traffic usually on a continuous route.</p> <p><b>A-WEIGHTED SOUND LEVEL (dBA).</b> The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectrum data to which A-weighting adjustments have been made.</p> <p><b>1 HOUR, British thermal units per hour, also referred to as Btu.</b> The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu. The amount of heat required to melt a ton (2,000 pounds) of ice at 32°F.</p> <p><b>COMMUNITY NOISE EQUIVALENT LEVEL (CNEL).</b> A metric similar to the day-night average sound level (dLn), but with a 5 dB penalty applied to evening and nighttime sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.</p> <p><b>COMPOSITE WOOD PRODUCTS.</b> Composite wood products include hardwood plywood, panelboards and medium density fiberboard. Composite wood products include treated structural lumber, structural gluing panels, structural composite lumber, oriented strand board, laminated timber, timber, prefabricated wood joists or truss-pointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(b).</p> <p><b>Note:</b> See CCR, Title 17, Section 93120.1.</p> <p><b>DAY-NIGHT AVERAGE SOUND LEVEL (dLn).</b> The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).</p> <p><b>DECIBEL (dB).</b> A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.</p> <p><b>ELECTRIC VEHICLE (EV).</b> An automobile-eye vehicle for on-road use, such as passenger automobiles, buses, vans, minivans, neighborhood electric vehicles, electric motorcycles, and like, primarily powered by an electric motor that draws current from a rechargeable energy storage system, or other source of electric current, including self-propelled electric vehicles, such as industrial trucks, hoists, lifts, tractors, golf carts, garden powered equipment, tractors, boats, and like, that are not designed for on-road use.</p> <p><b>ELECTRIC VEHICLE CHARGING STATIONS (EVCS).</b> One or more spaces intended for charging electric vehicles.</p> <p><b>ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).</b> The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.</p> <p><b>ENERGY EQUIVALENT (NOISE) LEVEL (Leq).</b> The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.</p> <p><b>EXPRESSWAY.</b> An arterial highway for through traffic, which will have partial control of access, but which may or may not be divided or have grade separations at intersections.</p> <p><b>FREeway.</b> A divided arterial highway with full control of access and with grade separations at intersections.</p> <p><b>GLOBAL WARMING POTENTIAL (GWP).</b> The relative global impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of 1.</p> <p><b>GLOBAL WARMING POTENTIAL VALUE (GWP VALUE).</b> A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1996), or its Fourth Assessment Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR1 (100-yr)" of Table 2.14; the AR4 GWP values are found in column "100 yr" of Table 2.14.</p> <p><b>HIGH-GWP REFRIGERANT.</b> A compound used as a heat transfer fluid or gas that is (a) a hydrofluorocarbon, a hydrochlorofluorocarbon, a hydrofluoroether, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (b) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec 82.3 (as amended March 10, 2009).</p> <p><b>LONG RADIUS ELBOW.</b> Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.</p> <p><b>LOW-GWP REFRIGERANT.</b> A compound used as a heat transfer fluid or gas that (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec 82.3 (as amended March 10, 2009).</p> <p><b>MERV.</b> Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999.</p> <p><b>MAXIMUM INCREMENTAL REACTIVITY (MIR).</b> The maximum change in weight of ozone formed by adding a compound to the "Base (Reactive Organic Gas (ROG) Mixture)" per weight of compound added, expressed to hundreds of a gram (g) (g ROG).</p> <p><b>PRODUCT-WEIGHTED MIR (PW-MIR).</b> The sum of all weighted-MIR for all ingredients in a product subject to this article. The PW-MIR is the total product reactivity expressed to hundreds of a gram of ozone formed per gram of product (including container and packaging).</p> <p><b>REACT. ORGANIC COMPOUND (ROC).</b> Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.</p> <p><b>SEMI-RIGID ACCESS VALVES.</b> Access fittings with a valve core installed.</p> <p><b>SHORT RADIUS ELBOW.</b> 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.</p> <p><b>SUPERMARKET.</b> For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet more conditioned area, and that has either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.</p> <p><b>VOC.</b> A volatile organic compound (VOC) is defined as a chemical compound based on carbon chains or rings with vapor pressure greater than 0.1 millimeter mercury (mm Hg) at room temperature. These compounds can oxidize and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).</p> <p><b>Note:</b> Where specific regulations are cited from different agencies such as SCQAD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure to which those regulations apply.</p>	<p><b>SECTION 5.504.1 - ADHESIVE VOC LIMIT (L)</b></p> <table border="1"> <thead> <tr> <th>LESS WATER AND LESS ENERGY COMPOUNDS IN GRAMS PER LITER</th> <th>ARCHITECTURAL APPLICATIONS</th> <th>CURRENT VOC LIMIT</th> </tr> </thead> <tbody> <tr> <td>INDOOR CARPET ADHESIVES</td> <td></td> <td>50</td> </tr> <tr> <td>CARPET PAD ADHESIVES</td> <td></td> <td>50</td> </tr> <tr> <td>OUTDOOR CARPET ADHESIVES</td> <td></td> <td>100</td> </tr> <tr> <td>WOOD FLOORING ADHESIVES</td> <td></td> <td>100</td> </tr> <tr> <td>FLOORING FLOOR ADHESIVES</td> <td></td> <td>60</td> </tr> <tr> <td>SUBFLOOR ADHESIVES</td> <td></td> <td>60</td> </tr> <tr> <td>CERAMIC TILE ADHESIVES</td> <td></td> <td>65</td> </tr> <tr> <td>W/CT &amp; ASPHALT TILE ADHESIVES</td> <td></td> <td>50</td> </tr> <tr> <td>DRYWALL &amp; PANEL ADHESIVES</td> <td></td> <td>50</td> </tr> <tr> <td>COVE BASE ADHESIVES</td> <td></td> <td>50</td> </tr> <tr> <td>MULTIPURPOSE CONSTRUCTION ADHESIVES</td> <td></td> <td>70</td> </tr> <tr> <td>STRUCTURAL GLAZING ADHESIVES</td> <td></td> <td>100</td> </tr> <tr> <td>SINGLE-PLY ROOF MEMBRANE ADHESIVES</td> <td></td> <td>250</td> </tr> <tr> <td>OTHER ADHESIVES NOT SPECIFICALLY LISTED</td> <td></td> <td>50</td> </tr> </tbody> </table> <p><b>SPECIALTY APPLICATIONS</b></p> <table border="1"> <tbody> <tr> <td>WPC WELDING</td> <td>510</td> </tr> <tr> <td>CPC WELDING</td> <td>490</td> </tr> <tr> <td>ABS WELDING</td> <td>325</td> </tr> <tr> <td>PLASTIC CEMENT WELDING</td> <td>250</td> </tr> <tr> <td>ADHESIVE PRIMER FOR PLASTIC</td> <td>550</td> </tr> <tr> <td>CONTACT ADHESIVE</td> <td>80</td> </tr> <tr> <td>SPECIAL PURPOSE CONTACT ADHESIVE</td> <td>250</td> </tr> <tr> <td>STRUCTURAL WOOD MEMBER ADHESIVE</td> <td>140</td> </tr> <tr> <td>TOP &amp; TRIM ADHESIVE</td> <td>250</td> </tr> </tbody> </table> <p><b>SUBSTRATE SPECIFIC APPLICATIONS</b></p> <table border="1"> <tbody> <tr> <td>METAL TO METAL</td> <td>30</td> </tr> <tr> <td>PLASTIC FOAMS</td> <td>50</td> </tr> <tr> <td>POROUS MATERIAL (EXCEPT WOOD)</td> <td>50</td> </tr> <tr> <td>WOOD</td> <td>30</td> </tr> <tr> <td>FIBERGLASS</td> <td>80</td> </tr> </tbody> </table> <p>1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.</p> <p>2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 118B, www.scaqm.ca.gov/ORDS/SCQAD/118B.PDF</p>	LESS WATER AND LESS ENERGY COMPOUNDS IN GRAMS PER LITER	ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	INDOOR CARPET ADHESIVES		50	CARPET PAD ADHESIVES		50	OUTDOOR CARPET ADHESIVES		100	WOOD FLOORING ADHESIVES		100	FLOORING FLOOR ADHESIVES		60	SUBFLOOR ADHESIVES		60	CERAMIC TILE ADHESIVES		65	W/CT & 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	WPC WELDING	510	CPC 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	METAL TO METAL	30	PLASTIC FOAMS	50	POROUS MATERIAL (EXCEPT WOOD)	50	WOOD	30	FIBERGLASS	80																											
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The GWP values of the products listed in Table 5.409.3 are based on 100 percent Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA. For concrete, 17.5 percent of the National Ready Mixed Concrete Association (NRMA) 2022 version 3 Factor 3 concrete, 17.5 percent of the National Ready Mixed Concrete Association (NRMA) 2022 version 3 Factor 4 concrete, and 17.5 percent of the National Ready Mixed Concrete Association (NRMA) 2022 version 3 Factor 5 concrete regional normalized values are used for the GWP allowed, except for High Early Strength Concrete High Early Strength ready-mixed shall be calculated at 150 percent of the ready-mixed concrete GWP allowed under the normal category.</p> <p>2. The GWP unit for flat glass has been adjusted to convert an error in the express terms. With the revised unit (MT CO<sub>2</sub>EQ/MT) reported GWP values will align with industry data as published in the CLF North American Material Resiliency (2023).</p> <p>3. 5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.</p> <p>4. Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be used. The weighted average maximum GWP allowed per Table 5.409.3 using Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.</p> <p>For the purposes of this exception, industry-wide EPDs are acceptable.</p> <p>Exception EQUATION 5.409.3.1</p> $GWP_{avg} = \frac{\sum (GWP_{i,material} \times V_{i,material})}{\sum V_{i,material}}$ <p>Where:</p> <ul style="list-style-type: none"> <li><math>GWP_{avg}</math> = GWP (kg CO<sub>2</sub>EQ/m<sup>3</sup>)</li> <li><math>GWP_{i,material}</math> = GWP (kg CO<sub>2</sub>EQ/m<sup>3</sup>)</li> <li><math>V_{i,material}</math> = volume of concrete mix installed in the project, in m<sup>3</sup></li> </ul>	BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY <sup>1</sup>	MAXIMUM ACCEPTABLE GWP VALUE (embodied) <sup>2</sup>	UNIT OF MEASUREMENT	Hot-rolled structural steel sections	1.77	MT CO <sub>2</sub> EQ/MT	Hollow structural sections	3.00	MT CO <sub>2</sub> EQ/MT	Steel plate	2.61	MT CO <sub>2</sub> EQ/MT	Concrete reinforcing steel	1.50	MT CO <sub>2</sub> EQ/MT	Flat glass	2.50	MT CO <sub>2</sub> EQ/T	Light-density mineral wool board insulation	5.83	kg CO <sub>2</sub> EQ/m <sup>3</sup>	Heavy-density mineral wool board insulation	14.28	kg CO <sub>2</sub> EQ/m <sup>3</sup>	Concrete, Ready-Mix <sup>3</sup>			Concrete Product Category	MAXIMUM GWP ALLOWED VALUE (GWP)	UNIT OF MEASUREMENT	up to 2499 psi	450	kg CO <sub>2</sub> EQ/m <sup>3</sup>	2500-3499 psi	486	kg CO <sub>2</sub> EQ/m <sup>3</sup>	3500-4499 psi	559	kg CO <sub>2</sub> EQ/m <sup>3</sup>	4500-5499 psi	661	kg CO <sub>2</sub> EQ/m <sup>3</sup>	5500-6499 psi	791	kg CO <sub>2</sub> EQ/m <sup>3</sup>	6500 psi and greater	700	kg CO <sub>2</sub> EQ/m <sup>3</sup>	Concrete, Lightweight Ready-Mix <sup>4</sup>			Concrete Product Category	MAXIMUM GWP ALLOWED VALUE (GWP)	UNIT OF MEASUREMENT	up to 2499 psi	875	kg CO <sub>2</sub> EQ/m <sup>3</sup>	2500-3499 psi	956	kg CO <sub>2</sub> EQ/m <sup>3</sup>	3500-4499 psi	1039	kg CO <sub>2</sub> EQ/m <sup>3</sup>	<p><b>TABLE 5.504.4.2 - SEALANT VOC LIMIT</b></p> <table border="1"> <thead> <tr> <th>LESS WATER AND LESS ENERGY COMPOUNDS IN GRAMS PER LITER</th> <th>SEALANTS</th> <th>CURRENT VOC LIMIT</th> </tr> </thead> <tbody> <tr> <td>ARCHITECTURAL</td> <td></td> <td>250</td> </tr> <tr> <td>MARINE DECK</td> <td></td> <td>750</td> </tr> <tr> <td>NONMEMBRANE ROOF</td> <td></td> <td>300</td> </tr> <tr> <td>ROADWAY</td> <td></td> <td>250</td> </tr> <tr> <td>SINGLE-PLY ROOF MEMBRANE</td> <td></td> <td>450</td> </tr> <tr> <td>OTHER</td> <td></td> <td>420</td> </tr> </tbody> </table> <p><b>SEALANT PRIMERS</b></p> <table border="1"> <tbody> <tr> <td>ARCHITECTURAL</td> <td></td> <td>250</td> </tr> <tr> <td>NONPOROUS</td> <td></td> <td>250</td> </tr> <tr> <td>POROUS</td> <td></td> <td>750</td> </tr> <tr> <td>MODIFIED BITUMINOUS</td> <td></td> <td>600</td> </tr> <tr> <td>MARINE DECK</td> <td></td> <td>750</td> </tr> <tr> <td>OTHER</td> <td></td> <td>750</td> </tr> </tbody> </table> <p><b>NOTE:</b> FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 118B.</p>	LESS WATER AND LESS ENERGY COMPOUNDS IN GRAMS PER LITER	SEALANTS	CURRENT VOC LIMIT	ARCHITECTURAL		250	MARINE DECK		750	NONMEMBRANE ROOF		300	ROADWAY		250	SINGLE-PLY ROOF MEMBRANE		450	OTHER		420	ARCHITECTURAL		250	NONPOROUS		250	POROUS		750	MODIFIED BITUMINOUS		600	MARINE DECK		750	OTHER		750
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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 JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE LOCAL CODE.

PRIMARY PE  
STAMP  
LOCATION

JURISDICTION  
APPROVAL  
STAMP  
LOCATION

**BW2 AND CUB2 - ARCHITECTURE**

**OVERALL - AAA**

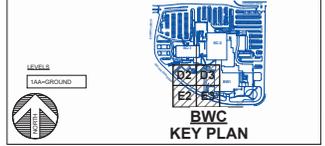
**CALGREEN REQUIREMENTS - PRELIMINARY**

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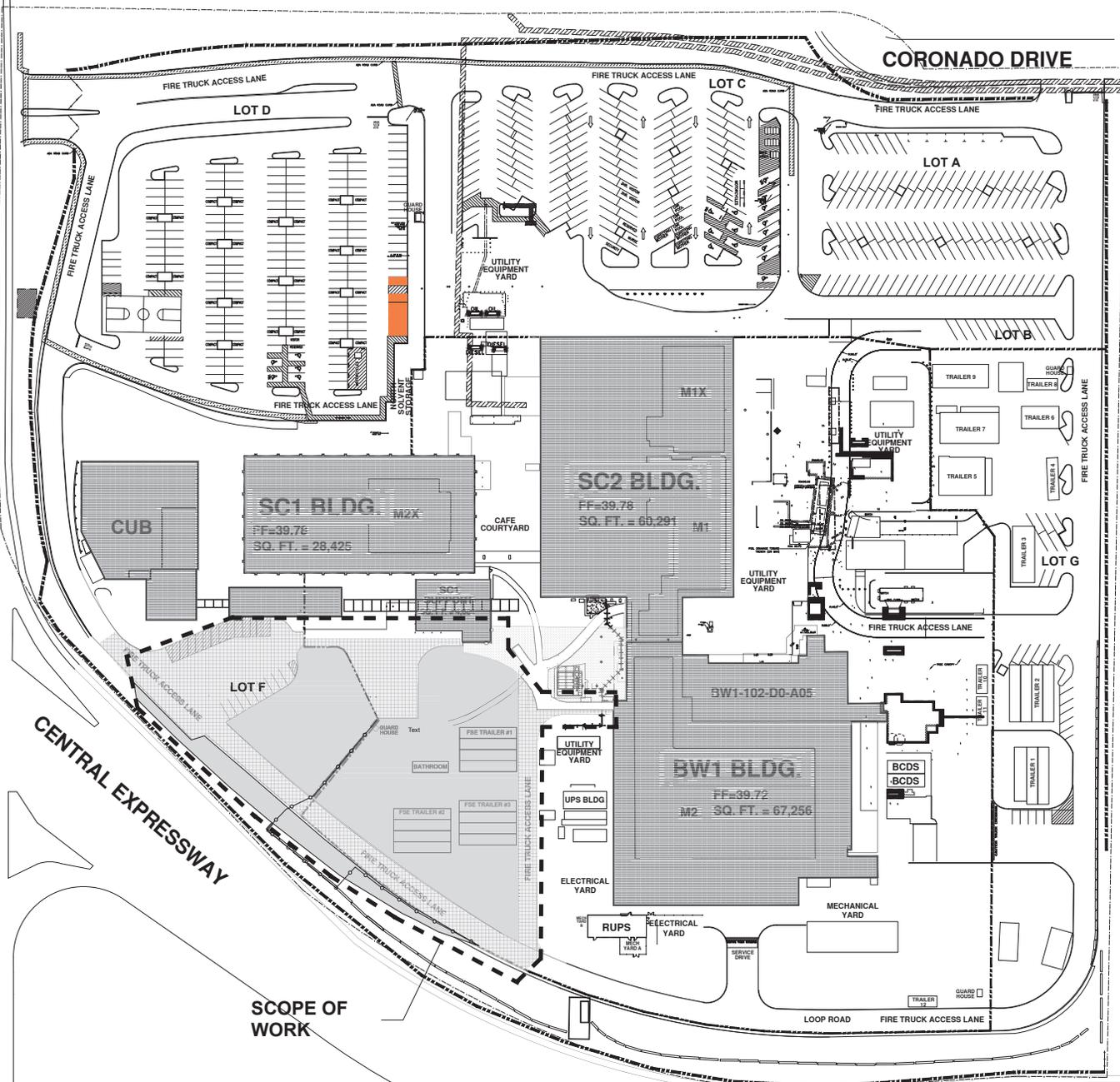
DATE: 07/20/24

12" x 18"





BOWERS AVENUE



CORONADO DRIVE

CENTRAL EXPRESSWAY

SCOPE OF WORK

	LOT					Total
	A	B	C	D	E	
Total Parking Stalls	123	11	151	189	11	485

**SITE DATA**  
 Lot Size 25.9 acres or 1,128,099 Sq.Ft.  
 Zoning HO-RD ; High Intensity Office/ Research and Development

**ZONING COMPLIANCE SUMMARY**  
 GROSS BUILDING AREA TO FACE OF EXTERIOR WALL

**FLOOR AREA RATIO (FAR) CALCULATIONS**

	EXISTING GFA (Sq. Ft.)	M4 FAB+CUB GFA (Sq. Ft.)	TOTAL GFA (Sq. Ft.)
PRIMARY STRUCTURES	331,707	193,971	435,678
LONG TERM TEMPORARY	22,889	(12,720)	20,169
COVERED EXTERIOR MEP HARDS	32,495*	7,940	40,435
TOTAL BUILDING GROSS FLOOR AREA (GFA)	387,091	189,191	576,282
FAR (TOTAL GROSS SF / TOTAL SITE AREA)	0.34	0.10	0.44

\*Includes FAR for SOW 707, north electric yard expansion currently under permitting with City

**PARKING CALCULATIONS**

PARKING CODE REQUIREMENTS	EXISTING GFA (Sq. Ft.)	Parking Reqd.	M4 FAB+CUB GFA (Sq. Ft.)	Parking Reqd.	TOTAL PARKING
Industrial (1/1200 SqFt)	92,262	93.3	25,201	25.3	119
Research & Development (1/750 SqFt)	92,085	123	13,196	17	140
Data Center (1/10,000 SqFt)	10,872	1	10,905	1	2
<b>TOTAL PARKING REQUIRED</b>		<b>217.3</b>		<b>43.3</b>	<b>261</b>

**SITE PARKING AVAILABLE\*\*** 436

\*\*Accounts for parking reductions due to SOW 707, north electric yard expansion under permitting with City  
 Note: No additional Head count is being added for the project

**SITE DEMOLITION PLAN LEGEND**

- EXISTING TO REMAIN
- IMPERMEABLE HARDSCAPE DEMOLISHED FOR NEW BUILDING FOOT PRINT
- EXISTING LANDSCAPE/HARDSCAPE AREA
- EXISTING HARDSCAPE AREA
- SECURITY FENCE TO BE DEMOLISHED
- PROPERTY LINE
- EXISTING CONCRETE TRAFFIC BARRIERS
- EV PARKING
- PROJECT SITE BOUNDARY

BY	LANDING DEPARTMENT CONSULTANT RESPONSE	DATE	05/14/2024
BY	DESIGN CONSULTANT CONSULTANT RESPONSE	DATE	05/14/2024
BY	INTERNAL REVISIONS	DATE	05/14/2024

PRIMARY PE STAMP LOCATION

CA - DMS  
 INTEL CORPORATION  
 3093 BOWERS AVENUE  
 SANTA CLARA, CA 95051-4126

EXISTING SITE INFORMATION

DATE	05/14/2024	PROJECT	A107
PROJECT NUMBER	HW00000000-AAA-000-AD-000000-FE02M	DATE	05/14/2024
SCALE	1" = 400'		







**BWC  
KEY PLAN**



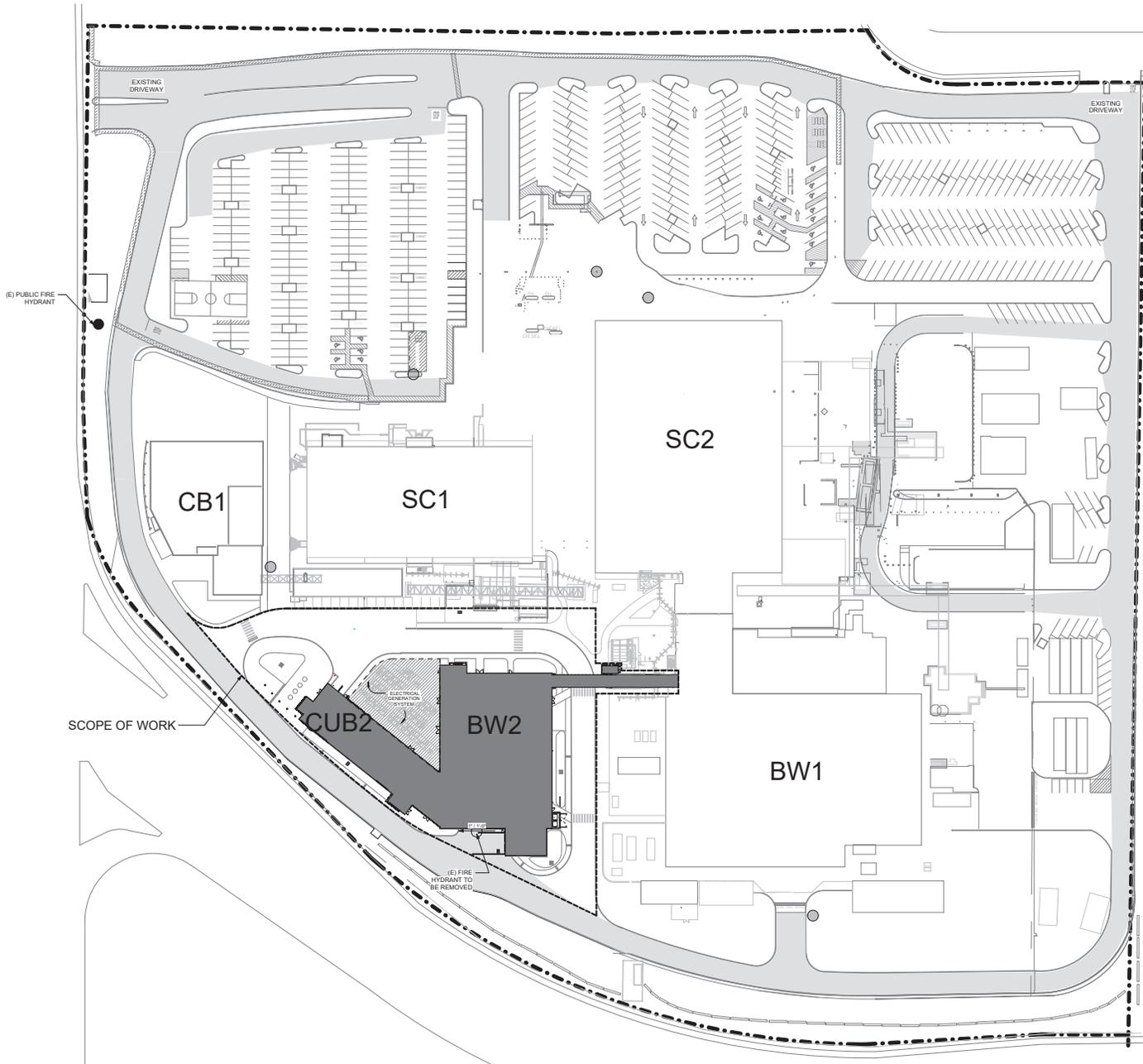
**FIRE ACCESS LEGEND**

- - - PROPERTY LINE
- - - PROJECT SITE BOUNDARY
- █ EXISTING FIRE ACCESS LANE
- EXISTING FIRE HYDRANT

**SHEET NOTES**

FIRE DEPARTMENT APPARATUS ACCESS AND WATER SUPPLY. COMPLY WITH CITY OF SANTA CLARA GUIDELINES, LOCAL FIRE ORDINANCE, FIRE DEPARTMENT ACCESS REQUIREMENTS, AND APPENDIX OF THE CALIFORNIA FIRE CODE.

ROADS WILL NOT EXCEED 1% GRADE AND WILL BE CAPABLE OF SUSTAINING A 15,000 LB LOAD.  
ROOMS AT BW2 ARE H-3 OCCUPANCY. ALL ROOMS IN CUB2 ARE F-1 AND H-219-3 OCCUPANCY.



PRIMARY PE STAMP LOCATION	
JURISDICTION APPROVAL STAMP LOCATION	 INTEL CORPORATION 205 BOWERS AVENUE SANTA CLARA, CA 95050-4100
<b>BW2 AND CUB2 - ARCHITECTURE OVERALL - AAA</b>	
<b>EXISTING CAMPUS FIRE ACCESS PLAN</b>	
A110	1" = 40'-0"



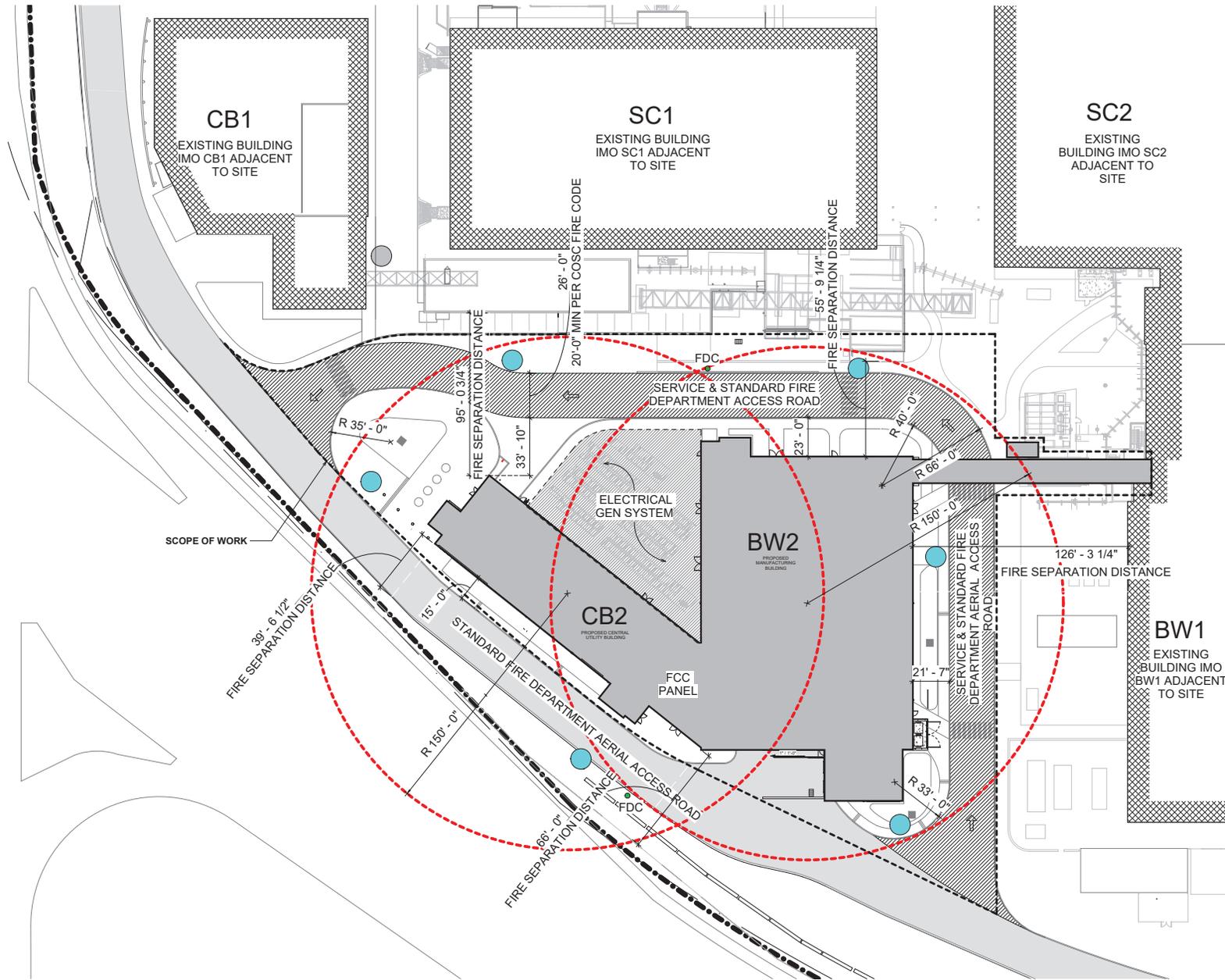
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KEY PLAN



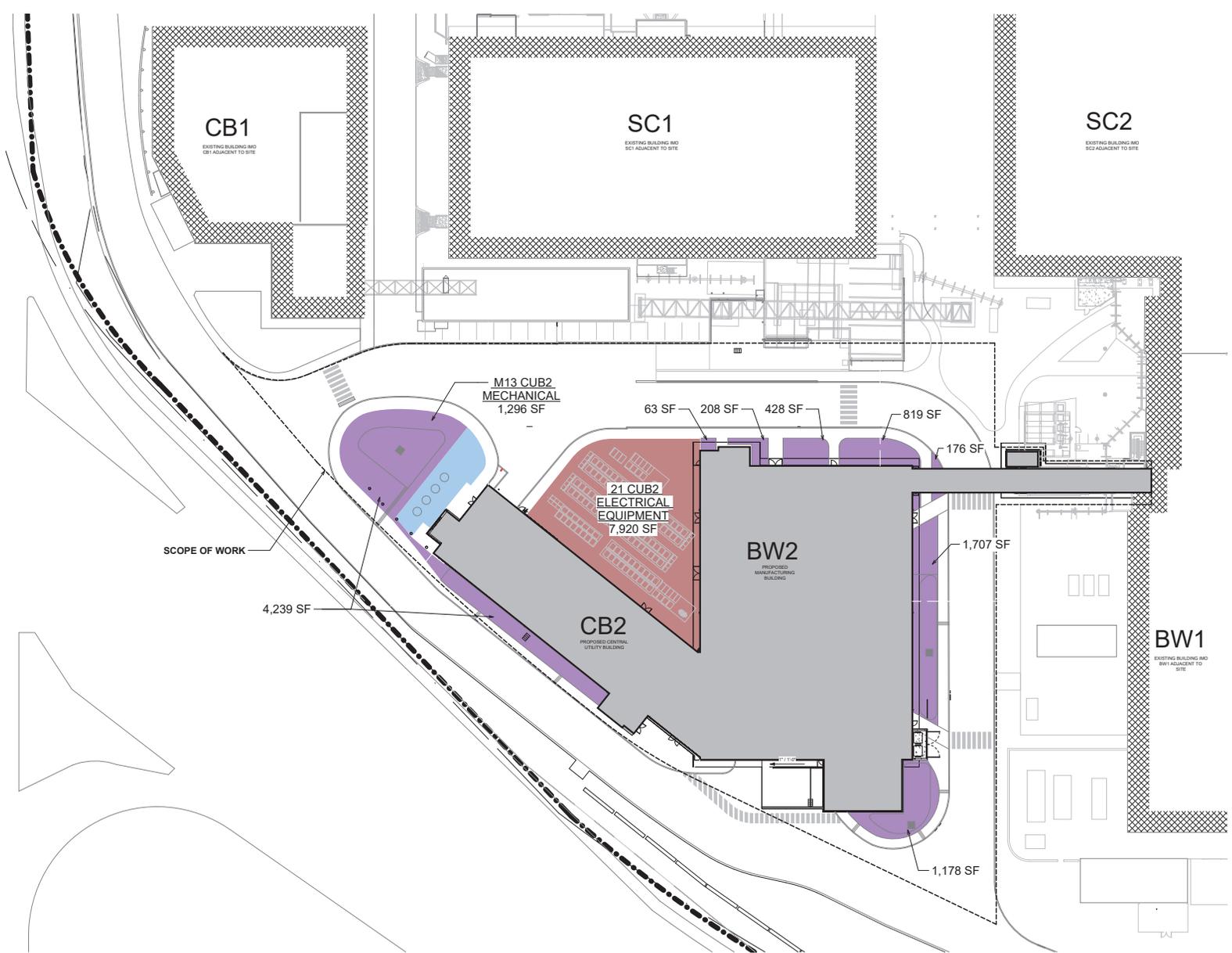
**FIRE ACCESS LEGEND**

- - - 150-FOOT FIRE APPARATUS ACCESS ROAD
- - - PROPERTY LINE
- - - PROJECT SITE BOUNDARY
- PROPOSED FIRE ACCESS LANE
- EXISTING FIRE ACCESS LANE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT TO REMAIN
- FIRE DEPARTMENT CONNECTION

**NOTES:**  
 FIRE DEPARTMENT APPARATUS ACCESS AND WATER SUPPLY COMPLY WITH CITY OF SANTA CLARA SUPERIOR LOCAL FIRE ORDINANCE, FIRE DEPARTMENT ACCESS REQUIREMENTS, AND APPROVALS OF THE CALIFORNIA FIRE CODE.  
 ROADS WILL NOT EXCEED 1% GRADE AND WILL BE CAPABLE OF SUSTAINING A 10,000 LB LOAD.  
 ROOMS AT BW2 ARE H-S OCCUPANCY. ALL ROOMS IN CLUB2 ARE F-1 AND H-2H-S OCCUPANCY.



PRIMARY PE STAMP LOCATION	<b>FLUOR</b>
JURISDICTION APPROVAL STAMP LOCATION	<b>CA - DMS</b> <b>intel</b> INTEL CORPORATION 205 BOWERS AVENUE SANTA CLARA, CA 95050-8080
	<b>BW2 AND CUB2 - ARCHITECTURE</b> <b>OVERALL - AAA</b> <b>EXISTING &amp; PROPOSED FIRE ACCESS PLAN</b>
	A111 1" = 20'-0"



**SITE AREA LEGEND**

- PROJECT SITE BOUNDARY
- UNCOVERED EXT MECH/ELEC (NOT INCLUDED IN FARI)
- COVERED EXT MECH/ELEC
- INTERNAL LANDSCAPE AREAS

SCOPE OF WORK

4,239 SF

M13 CUB2  
MECHANICAL  
1,296 SF

21 CUB2  
ELECTRICAL  
EQUIPMENT  
7,920 SF

BW2  
PROPOSED  
MANUFACTURING  
BUILDING

CB2  
PROPOSED CENTRAL  
UTILITY BUILDING

BW1  
EXISTING BUILDING AND  
BW1 ADJACENT TO  
SITE

63 SF

208 SF

428 SF

819 SF

176 SF

1,707 SF

1,178 SF

CB1  
EXISTING BUILDING AND  
CB1 ADJACENT TO SITE

SC1  
EXISTING BUILDING AND  
SC1 ADJACENT TO SITE

SC2  
EXISTING BUILDING AND  
SC2 ADJACENT TO SITE

PRIMARY PE STAMP LOCATION	<b>FLUOR</b>
	CA - DMS <b>intel</b> <small>INTEL CORPORATION 205 BOWERS AVENUE SANTA CLARA, CA 95050-4100</small>
JURISDICTION APPROVAL STAMP LOCATION	<b>BW2 AND CUB2 - ARCHITECTURE</b> ARCHITECTURAL
	<b>SITE AREA CALCULATIONS</b>
	A112
	1" = 20'-0"

**PROJECT CODE SUMMARY**

**APPLICABLE CURRENT CODES & STANDARDS**

- CITY OF SANTA CLARA MUNICIPAL CODE
- CITY OF SANTA CLARA FIRE DEPARTMENT ACCESS STANDARD
- 2023 CALIFORNIA BUILDING CODE (CBC)
- 2023 CALIFORNIA FIRE CODE (CFC)
- 2023 CALIFORNIA MECHANICAL CODE (CMC)
- 2023 CALIFORNIA PLUMBING CODE (CPC)
- 2023 CALIFORNIA GREEN BUILDINGS STANDARDS CODE
- 2023 CALIFORNIA ELECTRICAL CODE (CEC)
- CALIFORNIA OSH
- ANSI/ASSE 258.1 EMERGENCY EWEASH & SHOWER EQUIPMENT (2020 EDITION)
- ICCANSI A117.1 ACCESSIBLE & USABLE BUILDINGS & UTILITIES STANDARDS (2009 EDITION)
- NFPA 10 PORTABLE FIRE EXTINGUISHERS (2016 EDITION)
- NFPA 111 INSTALLATION OF SPRINKLER SYSTEMS (2016 EDITION)
- NFPA 114 INSTALLATION OF STANDPIPES & HOSE SYSTEM (2016 EDITION)
- NFPA 30 FLAMMABLE & COMBUSTIBLE LIQUIDS CODE (2018 EDITION)
- NFPA 72 NATIONAL FIRE ALARM CODE (2016 EDITION)
- NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES (2016 EDITION)
- NFPA 110 EMERGENCY AND STANDBY POWER SYSTEMS (2016 EDITION)
- NFPA 704 STD. SYSTEMS FOR THE IDENTIFICATION OF THE HAZARDS OF MATERIALS FOR EMERGENCY RESPONSE (2011 EDITION)

**CODE SUMMARY**

PROJECT DESCRIPTION: NEW MANUFACTURING FACILITY & CENTRAL UTILITY BUILDING

PROJECT ADDRESS: 3065 BOWERS STREET, SANTA CLARA, CA 95054

PARCEL NUMBER: APR 216-0410

LOT SIZE: 25.9 AC (RECORDED), 1,128,204 SF

ZONING DESIGNATION: H2-RO: HIGH INTENSITY OFFICE/RESEARCH AND DEVELOPMENT

FLOODZONE DESIGNATION: ZONE "X"

LOT COVERAGE: BUILDING & OUTDOOR EQUIPMENT - 50% MAXIMUM

OUTDOOR MECHANICAL EQUIPMENT - 12.5% MAXIMUM

GREENSPACE - 25% MINIMUM

**OCCUPANCY GROUP:**

BW2 MA FAB

H45 HIGH-HAZARDOUS (SEMICONDUCTOR FABRICATION FACILITY)

CB2 CUB

F4 MODERATE-HAZARD FACTORY INDUSTRIAL

H243 HIGH-HAZARD

**TYPE OF CONSTRUCTION:**

BW2 MA FAB

TYPE I (NON-COMBUSTIBLE)

FIRE RATING REQUIREMENTS, TABLE CBC 901 REQUIREMENTS:

PRIMARY STRUCTURAL FRAME - 2-HOUR

BEARING WALLS - INTERIOR - 2-HOUR

BEARING WALLS - EXTERIOR - 2-HOUR

NON-BEARING WALLS/SEPARATION EXTERIOR - NONE (TABLE §705.5, X >= 30 FT.)

NON-BEARING WALLS/SEPARATION INTERIOR - NONE

FLOOR CONSTRUCTION & SECONDARY STRUCTURAL MEMBERS - 2-HOUR

ROOF CONSTRUCTION & SECONDARY STRUCTURAL MEMBERS - 1-HOUR

**CB2 CUB**

TYPE I (NON-COMBUSTIBLE)

FIRE RATING REQUIREMENTS, TABLE CBC 901 REQUIREMENTS:

PRIMARY STRUCTURAL FRAME - NONE

BEARING WALLS - INTERIOR - NONE (TABLE §705.5, X >= 30 FT.)

BEARING WALLS - EXTERIOR - NONE (TABLE §705.5, X >= 30 FT.)

NON-BEARING WALLS/SEPARATION EXTERIOR - NONE

NON-BEARING WALLS/SEPARATION INTERIOR - NONE

FLOOR CONSTRUCTION & SECONDARY STRUCTURAL MEMBERS - NONE

ROOF CONSTRUCTION & SECONDARY STRUCTURAL MEMBERS - NONE

**ALLOWABLE BUILDING HEIGHT & STORES ABOVE GRADE:**

CB2 CUB: REQUIRED - MAX 160'-0" (SPRINKLERED), OR (4) STORES PROVIDED - 92'-0" (OR 3) STORES INCLUSIVE OF EQUIPMENT PLATFORM

F4 MODERATE-HAZARD FACTORY INDUSTRIAL: REQUIRED - MAX 75'-0" (SPRINKLERED), OR (3) STORES PROVIDED - 72'-0" (OR 3) STORES

**EQUIPMENT PLATFORM**

ALLOWABLE EQUIPMENT PLATFORM AREA = FAN DECK 3DA (23.68 GSF) x (20) = 15,756 GSF

PROVIDED EQUIPMENT PLATFORM AREA = 7,198 GSF = 15,738 GSF

ALLOWABLE BUILDING AREAS GROSS WITHIN EXTERIOR WALLS §506.2: BW2 FAB

H45/SPRINKLERED/MULTI-STOREY: MAX = UNLIMITED

**FAB (BW2) - AREA SCHEDULE (GROSS BUILDING AREA)**

Name	Area
11A UTILITY - FAB	23679 SF
11A UTILITY - CUB	8200 SF
11A UTILITY - FAB	23679 SF
11A UTILITY - CUB	8200 SF
11A UTILITY - FAB	23679 SF
11A UTILITY - CUB	8200 SF

**CB2 CUB**

F4/SPRINKLERED/MULTI-STOREY: MAX = 46,500 SF

**FAB (BW2) - AREA SCHEDULE (GROSS BUILDING AREA)**

Name	Area
11A UTILITY - CUB	8200 SF
11A UTILITY - CUB	8200 SF
11A UTILITY - CUB	8200 SF
11A UTILITY - CUB	8200 SF
11A UTILITY - CUB	8200 SF
11A UTILITY - CUB	8200 SF

**SEPARATION OF OCCUPANCIES §506.2.4**

NO SEPARATION REQUIRED BETWEEN OCCUPANCY OCCUPANCIES AND THE MAIN OCCUPANCY

EXCEPTION #1: GROUP 1, 2, 3, 4, 5 OCCUPANCIES SHALL BE SEPARATED FROM ALL OTHER OCCUPANCIES IN ACCORDANCE WITH §506.4.

**REQUIRED SEPARATION OF OCCUPANCIES TABLE §506.4**

GROUP 1, 2, 3, 4, 5 OCCUPANCIES REQUIRING 1-HOUR FIRE SEPARATION

FIRE DETECTION SYSTEMS: PROVIDED PER CBC §(F) 415.3 & 902.7

FIRE SPRINKLERS: PROVIDED PER CBC §(F) 415.4 & 902.5

EMERGENCY ALARM: PROVIDED PER CBC §(F) 415.5

PROVIDED FIRE SEPARATION DISTANCE CBC §705.5

NORTH (0C1): 55'-0"

NORTH (0W1): 125'-0"

SOUTH (ROW): 60'-0"

WEST (ROW): 35'-0"

ALL EXTERIOR WALLS GREATER THAN 30" SEPARATION FROM ADJACENT BUILDINGS & R.O.W. NO FIRE RATING REQUIRED

**H45 OCCUPANCY REQUIREMENTS:**

COMPLIANCE WITH CBC SECTIONS §(F) §415.11.1 THRU §415.11.8

§415.11.1 HAZARDOUS MATERIALS QUANTITIES TBD

§415.11.2 SEPARATION - MINIMUM 1-HOUR FROM HAZARDOUS MATERIALS, DOORS WITH SELF-CLOSING

NO LESS THAN 34 HOUR FIRE RATING, DOORS TO SWING IN DIRECTION OF THE EXIT TRAVEL PATH, WINDOWS MUST BE LABELLED, NO LESS THAN 34 HOUR FIRE RATING

§415.11.4 MANUFACTURING FLOORS MUST BE NON-COMBUSTIBLE

§415.12 CORRIDORS SHALL COMPLY WITH SECTION 10 OF THE CBC

**FIRE WALL FIRE-RESISTANCE RATINGS §705.4:**

1. H45-HOUR FIRE WALL RATING

FIRE WALL HORIZONTAL CONTINUITY §705.5:

FIRE WALLS SHALL BE CONTINUOUS FROM EXTERIOR WALL TO EXTERIOR WALL AND SHALL EXTEND NOT LESS THAN 18 INCHES BEYOND THE EXTERIOR SURFACE OF EXTERIOR WALLS

EXCEPTION 2: FIRE WALLS SHALL BE PERMITTED TO TERMINATE AT THE INTERIOR SURFACE OF NON-COMBUSTIBLE EXTERIOR SHEATHING, EXTERIOR SIDING, OR OTHER NON-COMBUSTIBLE EXTERIOR FINISHES PROVIDED THAT THE SHEATHING, SIDING OR OTHER NON-COMBUSTIBLE FINISH EXTENDS A HORIZONTAL DISTANCE OF 18" OR LESS FROM BOTH SIDES OF THE FIRE WALL

EXCEPTION 3: FIRE WALLS SHALL BE PERMITTED TO TERMINATE AT THE INTERIOR SURFACE OF NON-COMBUSTIBLE EXTERIOR SHEATHING HERE THE BUILDING ON EACH SIDE OF THE FIRE WALL IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH §903.3.1.1 OR §903.3.1.2

**FIRE WALL VERTICAL CONTINUITY §705.6:**

FIRE WALLS SHALL EXTEND FROM THE FOUNDATION TO A TERMINATION POINT OF NOT LESS THAN 30 INCHES ABOVE BOTH ADJACENT ROOFS.

**FIRE WALLS STEPPED BUILDINGS §705.6.1:**

WHERE A FIRE WALL ALSO SERVES AS AN EXTERIOR WALL FOR A BUILDING AND SEPARATES BUILDINGS HAVING DIFFERENT ROOF LEVELS, SUCH WALL SHALL TERMINATE AT A POINT NOT LESS THAN 30 INCHES ABOVE THE LOWER ROOF LEVEL OF THE LOWER ROOF. PROVIDED THAT ITEMS 2 AND 4 ARE MET. MORE THAN 30 INCHES ABOVE THE LOWER ROOF SHALL BE OF NOT LESS THAN 1-HOUR FIRE-RESISTANCE RATED CONSTRUCTION FROM BOTH SIDES OF THE LOWER ROOF. PORTIONS OF THE EXTERIOR WALLS GREATER THAN 15 FEET ABOVE THE LOWER ROOF SHALL BE NON-FIRE-RESISTANCE RATED CONSTRUCTION UNLESS OTHERWISE RATED CONSTRUCTION IS REQUIRED BY OTHER PROVISIONS OF THIS CODE.

EXCEPTION: A FIRE WALL SERVING AS PART OF AN EXTERIOR WALL THAT SEPARATES BUILDINGS HAVING DIFFERENT ROOF LEVELS SHALL BE PERMITTED TO TERMINATE AT THE UNDERSIDE OF THE ROOF SHEATHING, SIDING OR SUB OF THE LOWER ROOF. PROVIDED THAT ITEMS 2 AND 4 ARE MET. THE EXTERIOR WALL ABOVE THE FIRE WALL IS NOT REQUIRED TO BE OF FIRE-RESISTANCE RATED CONSTRUCTION UNLESS REQUIRED BY OTHER PROVISIONS OF THIS CODE.

1. THE LOWER ROOF ASSEMBLY WITHIN 10 FEET OF THE FIRE WALL HAS NOT LESS THAN A 1-HOUR FIRE-RESISTANCE RATING.

2. THE LOWER ROOF LENGTH AND SPAN OF SUPPORTING ELEMENTS FOR THE RATED ROOF ASSEMBLY SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1-HOUR.

3. OPENINGS IN THE LOWER ROOF SHALL NOT BE LOCATED WITHIN 10 FEET OF THE FIRE WALL.

**CHAPTER 10 - EGRESS - MEANS OF EGRESS:**

**BW2 MA FAB**

OCCUPANT LOAD (OUB) = TOTAL OCCUPANT LOAD

LEVEL 1: 173 OCC x [0.2] = 34.6 INCHES

LEVEL 2: 195 OCC x [0.2] = 39.0 INCHES

LEVEL 3: 318 x 3DA EQUIP PLATFORM + [106 OCC] + [33 OCC] = 1139 OCC

§1005.3.1 STAIRS

(OCC LOAD) x (3 INCHES) = MM REQUIRED STAIR WIDTH

LEVEL 1: 173 OCC x [0.3] = 51.9 INCHES

LEVEL 2: 195 OCC x [0.3] = 58.5 INCHES

LEVEL 3: 1139 OCC x [0.3] = 41.7 INCHES

PROVIDED: (4) INCH MIN. CLEAR WIDTH STAIR

**§1005.3.2 OTHER EGRESS COMPONENTS**

(OCC LOAD) x (3.0 INCHES) = MM REQUIRED STAIR WIDTH

LEVEL 1: 173 OCC x [3.0] = 519 INCHES

LEVEL 2: 195 OCC x [3.0] = 585 INCHES

LEVEL 3: 1139 OCC x [3.0] = 3417 INCHES

PROVIDED: (2) INCH MIN. CLEAR WIDTH STAIR

**CB2 CUB**

OCCUPANT LOAD (OUB) = TOTAL OCCUPANT LOAD

LEVEL 1: 126 OCC x [0.2] = 25.2 INCHES

LEVEL 2: 126 OCC x [0.2] = 25.2 INCHES

LEVEL 3: 126 OCC x [0.2] = 25.2 INCHES

PROVIDED: (4) INCH MIN. CLEAR WIDTH STAIR

**§1005.3.2 OTHER EGRESS COMPONENTS**

(OCC LOAD) x (3.0 INCHES) = MM REQUIRED STAIR WIDTH

LEVEL 1: 126 OCC x [3.0] = 378 INCHES

LEVEL 2: 126 OCC x [3.0] = 378 INCHES

LEVEL 3: 126 OCC x [3.0] = 378 INCHES

PROVIDED: (2) INCH MIN. CLEAR WIDTH STAIR

**§1009.3.2 ACCESSIBLE MEANS OF EGRESS STAIRWAY WIDTH**

STAIRWAYS SHALL HAVE A CLEAR WIDTH OF 48 INCHES MINIMUM HANDRAILS.

EXCEPTION #1: 48 INCH CLEAR WIDTH HANDRAILS IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH §903.3.1.1 OR §903.3.1.2

**§1011.2 (STAR) WIDTH & CAPACITY**

THE REQUIRED CAPACITY OF STAIRWAYS SHALL BE DETERMINED AS SPECIFIED IN §1006.1, BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES. THE MINIMUM WIDTH FOR STAIRWAYS THAT SERVE AS PART OF THE ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH §1009.3.

**§1017.2 EXIT ACCESS TRAVEL DISTANCE:**

F-1 OCCUPANCY (WITH AUTOMATIC SPRINKLERS) = 200'-0"

F-4 OCCUPANCY (WITH AUTOMATIC SPRINKLERS) = 200'-0"

GROUP H-4 INCREASE §1017.2.3:

THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE SHALL BE 300 FEET IN THE FABRICATION AREAS OF GROUP H-4 OCCUPANCIES WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:

1. THE WIDTH OF THE FABRICATION AREA IS 300 FEET OR GREATER

2. THE AREA OF THE FABRICATION AREA IS 220,000 SF OR GREATER

3. THE HEIGHT OF THE FABRICATION AREA, MEASURED FROM THE RAISED METAL FLOOR AND THE CLEAN FILTER CEILING, IS 16 FEET OR GREATER.

4. THE SUPPLY VENTILATION RATE IS 20 CFM PER SQUARE FOOT OR GREATER AND SHALL REMAIN OPERATIONAL.

**SECTION 1028 HORIZONTAL EXITS**

**§1028.1 HORIZONTAL EXITS**

HORIZONTAL EXITS SERVING AS AN EXIT IN A MEANS OF EGRESS SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION. A HORIZONTAL EXIT SHALL NOT SERVE AS THE ONLY EXIT FROM A PORTION OF A BUILDING, AND WHERE TWO OR MORE EXITS ARE REQUIRED, NOT LESS THAN ONE-HALF OF THE TOTAL NUMBER OF EXITS OR TOTAL EXIT MINIMUM WIDTH OR REQUIRED CAPACITY SHALL BE HORIZONTAL EXITS.

EXCEPTIONS:

1. HORIZONTAL EXITS ARE PERMITTED TO COMPRISE TWO-THIRDS OF THE REQUIRED EXITS FROM ANY BUILDING OR FLOOR AREA OF THE BUILDING.

2. HORIZONTAL EXITS ARE PERMITTED TO COMPRISE 100 PERCENT OF THE EXITS REQUIRED FOR OCCUPANCIES IN GROUP 1, 3, NOT LESS THAN SQUARE FEET (0.06 M<sup>2</sup>) OF ACCESSIBLE SPACE PER OCCUPANT SHALL BE PROVIDED ON EACH SIDE OF THE HORIZONTAL EXIT FOR THE TOTAL NUMBER OF PEOPLE IN ADJOINING COMPARTMENTS.

3. HORIZONTAL EXITS ARE PERMITTED TO SERVE AS THE ONLY EXITS FROM A PORTION OF A BUILDING SERVING AS AN INTERMEDIATE REFUGUE AREA IN ACCORDANCE WITH SECTION 1026.4.2, EXCEPTION.

**§1028.2 SEPARATION**

THE SEPARATION BETWEEN BUILDINGS OR REFUGE AREAS CONNECTED BY A HORIZONTAL EXIT SHALL BE PROVIDED BY A FIRE WALL COMPLYING WITH SECTION 706, OR BY A FIRE BARRIER COMPLYING WITH SECTION 707 OR A HORIZONTAL ASSEMBLY COMPLYING WITH SECTION 711, OR BOTH. THE MINIMUM FIRE-RESISTANCE RATING OF THE SEPARATION SHALL BE 2 HOURS. SPRING PROTECTIVES IN HORIZONTAL EXITS SHALL ALSO COMPLY WITH SECTION 716. DUCT AND AIR TRANSFER OPENINGS IN A FIRE WALL OR FIRE BARRIER THAT SERVES AS A HORIZONTAL EXIT SHALL ALSO COMPLY WITH SECTION 717. THE HORIZONTAL EXIT SEPARATION SHALL BE PERMITTED TO SECTION 716 THROUGH ALL LEVELS OF THE BUILDING UNLESS FIRE-RESISTANCE RATING IS NOT REQUIRED AT HORIZONTAL EXITS BETWEEN A BUILDING AREA AND AN ABOVE-GRADE PESTICIDE WALKWAY RECESS WITH SECTION 910.4. PROVIDED THAT THE DISTANCE BETWEEN CONNECTED BUILDINGS IS MORE THAN 20 FEET (6098 MM). HORIZONTAL EXITS CONNECTED AS SUCH SHALL BE AUTOMATICALLY CLOSING FROM EXTERIOR WALL TO EXTERIOR WALL SO AS TO DIVIDE COMPLETELY THE FLOOR SERVED BY THE HORIZONTAL EXIT.

**§1028.3 OPENING PROTECTIVES**

FIRE DOORS IN HORIZONTAL EXITS SHALL BE SELF-CLOSING OR AUTOMATIC-CLOSING WHEN ACTIVATED BY A SMOKE DETECTOR IN ACCORDANCE WITH SECTION 716.5.9.3. DOORS, WHEN LOCATED IN A CROSS-CORRIDOR CONDITION, SHALL BE AUTOMATICALLY CLOSING BY A SMOKE DETECTOR INSTALLED IN ACCORDANCE WITH SECTION 716.5.9.3.

**§1028.4 REFUGUE AREA**

THE REFUGUE AREA OF A HORIZONTAL EXIT SHALL BE A SPACE OCCUPIED BY THE SAME TENANT OR A PUBLIC AREA AND EACH SUCH REFUGUE AREA SHALL BE ADEQUATE TO ACCOMMODATE THE ORIGINAL OCCUPANT LOAD OF THE REFUGUE AREA. ALLOWABLE PER OCCUPANT SHALL BE AS FOLLOWS FOR THE INDICATED OCCUPANCIES:

1. 20 SQUARE FEET (1.8 M<sup>2</sup>) PER OCCUPANT FOR OCCUPANCIES IN GROUP 1, 3.

2. 15 SQUARE FEET (1.4 M<sup>2</sup>) PER OCCUPANT FOR AMBULATORY OCCUPANCIES IN GROUP 1, 2.

3. THIRTY SQUARE FEET (2.8 M<sup>2</sup>) PER OCCUPANT FOR NONAMBULATORY OCCUPANCIES IN GROUP 1, 2.

**§1028.4 NUMBER OF EXITS**

THE REFUGUE AREA INTO WHICH A HORIZONTAL EXIT LEADS SHALL BE PROVIDED WITH EXITS ADEQUATE TO THE REFUGUE AREA AND EACH SUCH EXIT SHALL BE PROVIDED WITH THE ADDED OCCUPANT LOAD IMPOSED BY PERSONS ENTERING THE REFUGUE AREA THROUGH HORIZONTAL EXITS FROM THE ADJOINING COMPARTMENT. NOT LESS THAN ONE EXIT FROM EACH REFUGUE AREA INTO WHICH A HORIZONTAL EXIT LEADS AN INTERIOR EXIT STAIRWAY OR RAMP. IN ADDITION TO SUCH REFUGUE AREA EXIT, IN BUILDINGS MORE THAN 10 FEET ABOVE THE LOWER ROOF SHALL BE PROVIDED WITH EXITS FROM EACH REFUGUE AREA SHALL LEAD DIRECTLY TO THE ADDITIONAL EXIT STAIRWAY REQUIRED BY SECTION 403.5.2 OR SHALL PROVIDE ACCESS TO OCCUPANT SELF-EVACUATION ELEVATORS WHERE SUCH ELEVATORS ARE PROVIDED BY SECTION 1011.1 OR § OF AN ADDITIONAL EXIT STAIRWAY.

**EXCEPTION: A SINGLE INTERMEDIATE REFUGUE AREA BETWEEN THE ADJOINING COMPARTMENT FROM WHICH EGRESS ORIGINATES AND THE FINAL REFUGUE AREA SHALL NOT BE REQUIRED TO HAVE A STAIRWAY OR RAMP OR DOOR LEADING DIRECTLY TO SECTION 403.5.2 IN lieu OF AN ADDITIONAL EXIT STAIRWAY.**

EXCEPTION: A SINGLE INTERMEDIATE REFUGUE AREA BETWEEN THE ADJOINING COMPARTMENT FROM WHICH EGRESS ORIGINATES AND THE FINAL REFUGUE AREA SHALL NOT BE REQUIRED TO HAVE A STAIRWAY OR RAMP OR DOOR LEADING DIRECTLY TO SECTION 403.5.2 IN lieu OF AN ADDITIONAL EXIT STAIRWAY.

EXCEPTION: A SINGLE INTERMEDIATE REFUGUE AREA BETWEEN THE ADJOINING COMPARTMENT FROM WHICH EGRESS ORIGINATES AND THE FINAL REFUGUE AREA SHALL NOT BE REQUIRED TO HAVE A STAIRWAY OR RAMP OR DOOR LEADING DIRECTLY TO SECTION 403.5.2 IN lieu OF AN ADDITIONAL EXIT STAIRWAY.

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EXCEPTION: A SINGLE INTERMEDIATE REFUGUE AREA BETWEEN THE ADJOINING COMPARTMENT FROM WHICH EGRESS ORIGINATES AND THE FINAL REFUGUE AREA SHALL NOT BE REQUIRED TO HAVE A STAIRWAY OR RAMP OR DOOR LEADING DIRECTLY TO SECTION 403.5.2 IN lieu OF AN ADDITIONAL EXIT STAIRWAY.

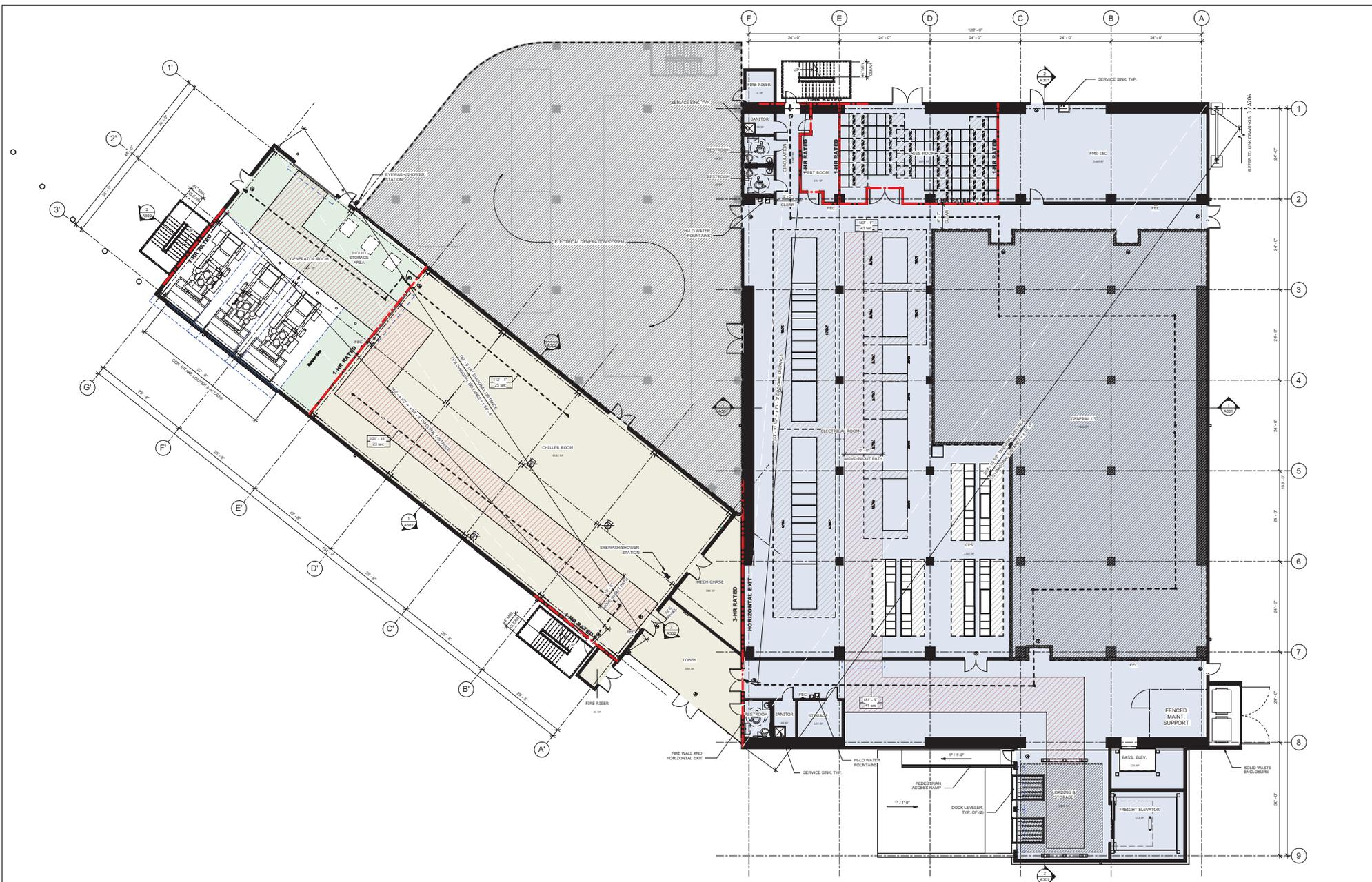
EXCEPTION: A SINGLE INTERMEDIATE REFUGUE AREA BETWEEN THE ADJOINING COMPARTMENT FROM WHICH EGRESS ORIGINATES AND THE FINAL REFUGUE AREA SHALL NOT BE REQUIRED TO HAVE A STAIRWAY OR RAMP OR DOOR LEADING DIRECTLY TO SECTION 403.5.2 IN lieu OF AN ADDITIONAL EXIT STAIRWAY.

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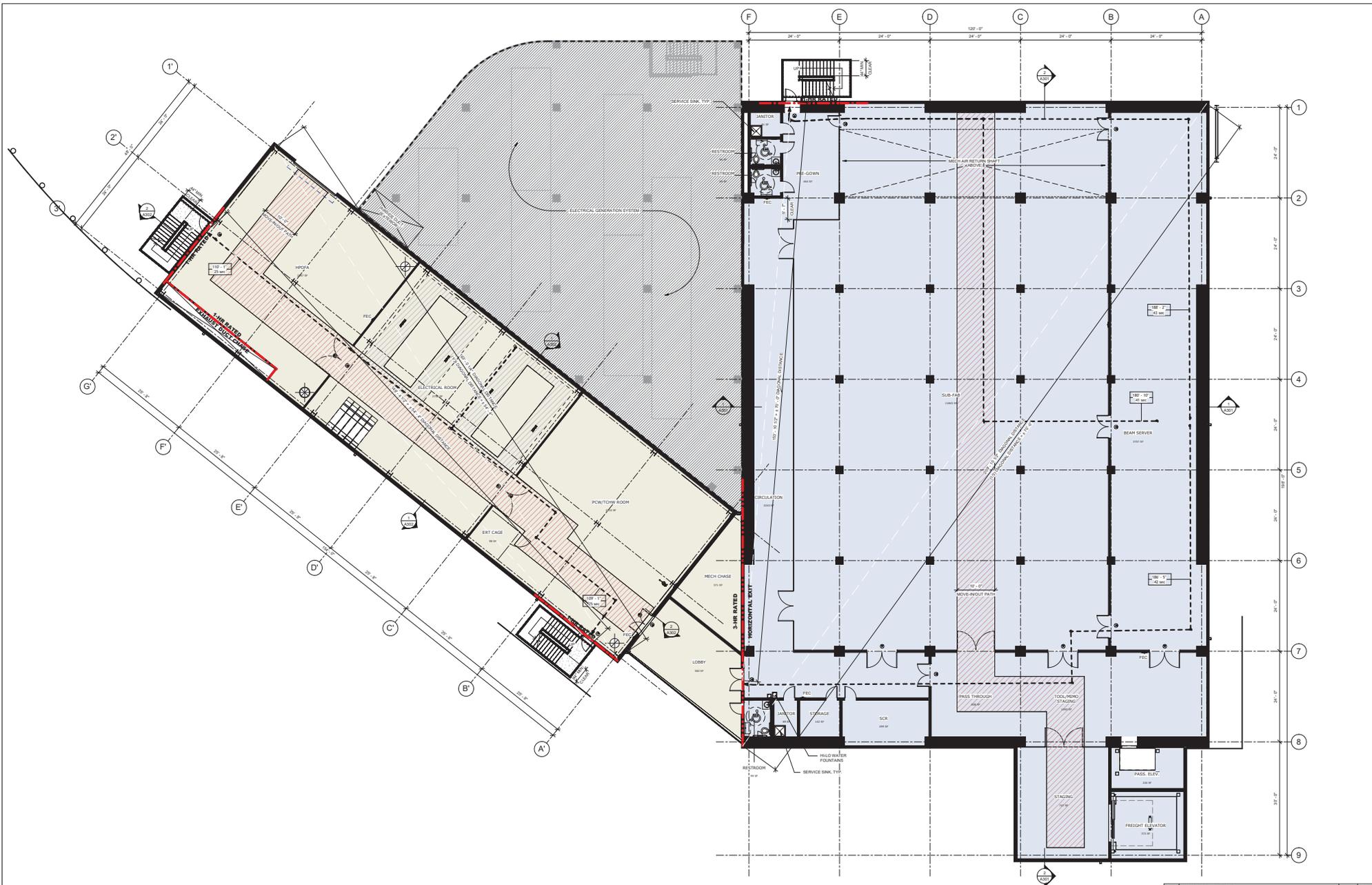


**OCCUPANCY LEGEND**

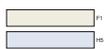


PATH OF TRAVEL SCHEDULE (LEVEL 1)		
Level	Length	From Room
00A - OFFICE LEVEL	100' - 2' 10" (20')	GENERAL L3.23
00B - OFFICE LEVEL	100' - 1' 7" (20')	GENERAL L3.23
00C - OFFICE LEVEL	100' - 1' 13" (20')	CHILLER ROOM 16
00D - OFFICE LEVEL	100' - 2' 34" (20')	CHILLER ROOM 16
00E - OFFICE LEVEL	100' - 1' 3" (20')	GENERAL L3.23
00F - OFFICE LEVEL	100' - 1' 7" (20')	GENERAL L3.23
00G - OFFICE LEVEL	100' - 1' 13" (20')	CHILLER ROOM 16
00H - OFFICE LEVEL	100' - 1' 13" (20')	CHILLER ROOM 16

PRIMARY PE STAMP LOCATION	
JURISDICTION APPROVAL STAMP LOCATION	<b>BW2 AND CUB2 - ARCHITECTURE</b> GROUND LEVEL
	<b>LIFE SAFETY PLAN</b> A201



**OCCUPANCY LEGEND**



PATH OF TRAVEL SCHEDULE (LEVEL 2)		
Level	Length	From Room
USA - SUBPAR LEVEL	181' - 1.822500'	BEAM SERVER 01
USA - SUBPAR LEVEL	181' - 1.822500'	BEAM SERVER 02
USA - SUBPAR LEVEL	181' - 1.822500'	BEAM SERVER 03
USA - SUBPAR LEVEL	111' - 1.111250'	ELECTRICAL ROOM 01
USA - SUBPAR LEVEL	111' - 1.111250'	ELECTRICAL ROOM 02
USA - SUBPAR LEVEL	111' - 1.111250'	BEAM SERVER 04
USA - SUBPAR LEVEL	181' - 1.822500'	BEAM SERVER 05
USA - SUBPAR LEVEL	181' - 1.822500'	BEAM SERVER 06
USA - SUBPAR LEVEL	111' - 1.111250'	ELECTRICAL ROOM 03
USA - SUBPAR LEVEL	111' - 1.111250'	ELECTRICAL ROOM 04

JURISDICTION APPROVAL STAMP LOCATION

PRIMARY PE STAMP LOCATION

CA - DMS

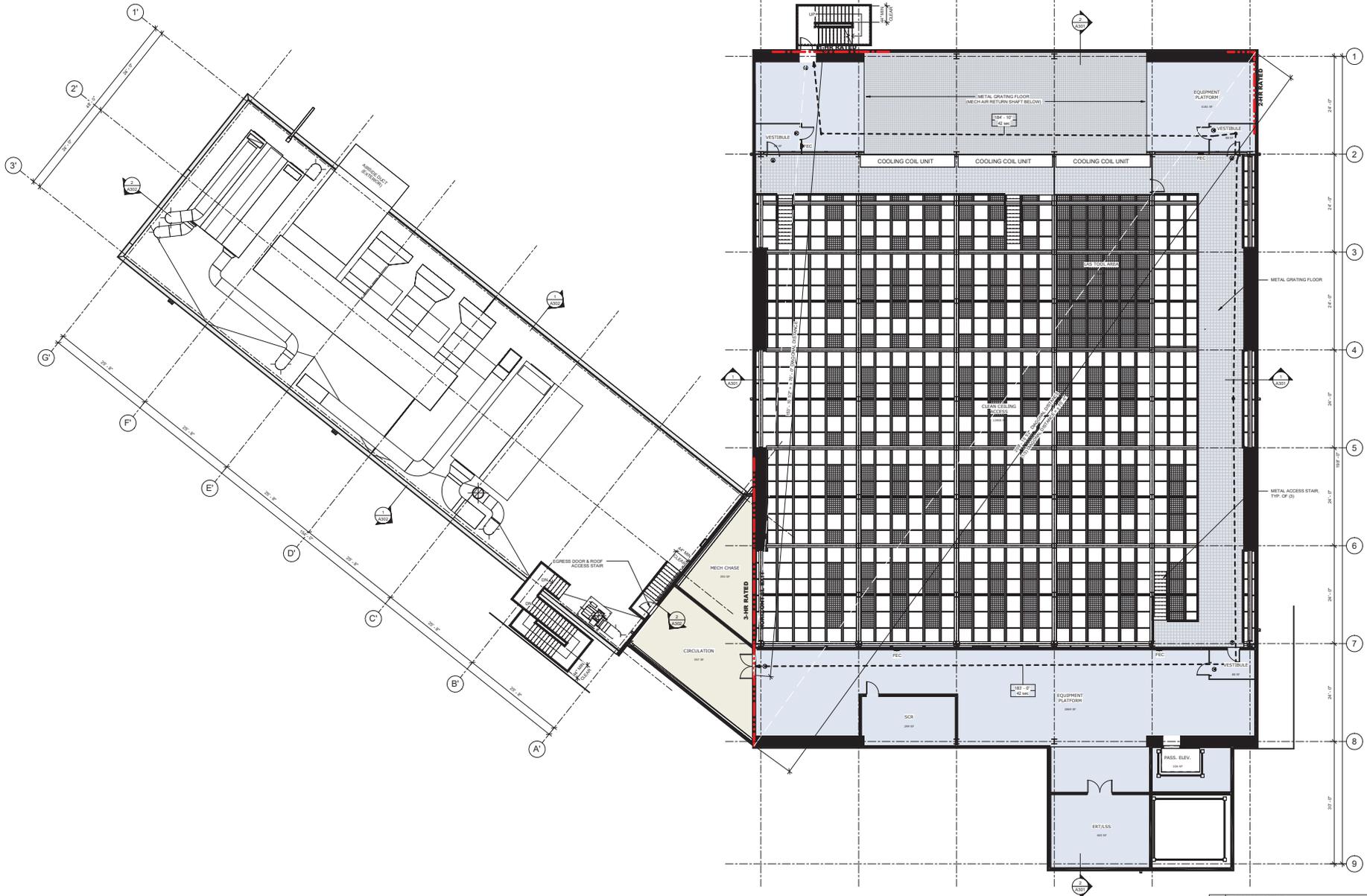
INTEL CORPORATION  
200 BOWERS AVENUE  
SANTA CLARA, CA 95050-4000

**BW2 AND CUB2 - ARCHITECTURE  
SECOND LEVEL**

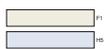
**LIFE SAFETY PLAN**

18" = 1'-0"





**OCCUPANCY LEGEND**

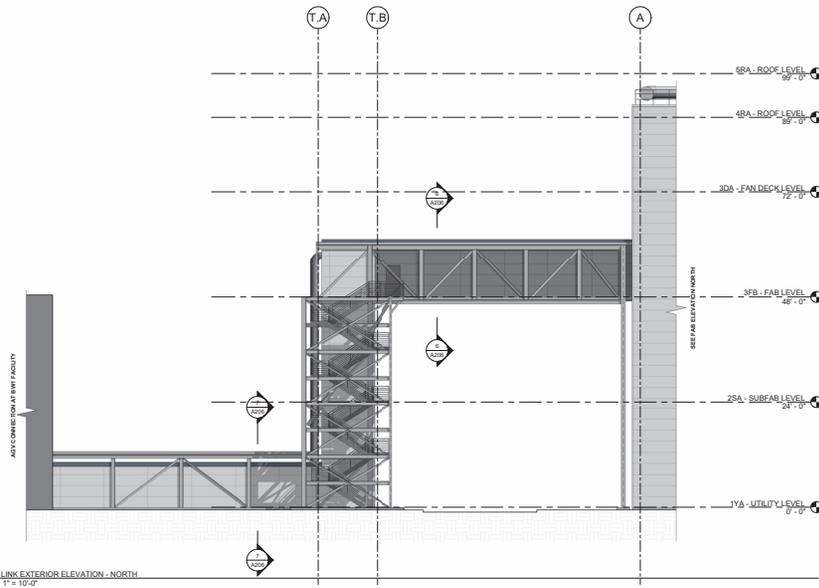


PATH OF TRAVEL SCHEDULE (LEVEL 3 FAN DECK)		
Level	Length	From Room
ROA - FAN DECK LEVEL	18'0" - 8.340'	02 FAN CEILING ACCESS 100
ROA - FAN DECK LEVEL	18'0" - 11.430'	02 FAN CEILING ACCESS 100
ROA - FAN DECK LEVEL	18'0" - 8.340'	02 FAN CEILING ACCESS 100
ROA - FAN DECK LEVEL	18'0" - 11.430'	02 FAN CEILING ACCESS 100

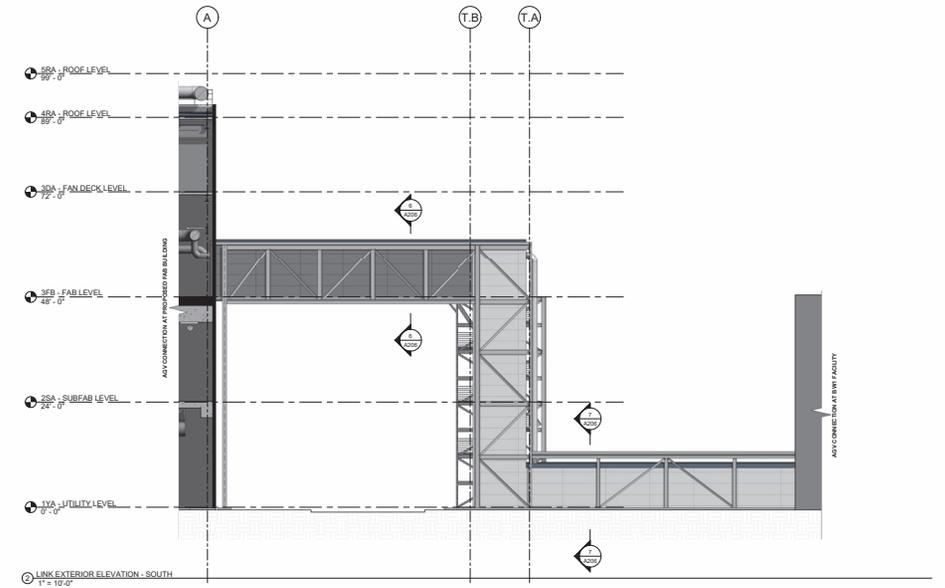
JURISDICTION APPROVAL STAMP LOCATION

PRIMARY PE STAMP LOCATION	<b>FLUOR</b>
	<b>CA - DMS</b> <b>intel</b> <small>INTEL CORPORATION 200 BOWERS AVENUE SANTA CLARA, CA 95050-4100</small>
<b>BW2 AND CUB2 - ARCHITECTURE THIRD LEVEL - FAN DECK</b>	
<b>LIFE SAFETY PLAN</b>	
<small>18" x 11" (457 x 279 mm)</small>	<small>18" x 11" (457 x 279 mm)</small>

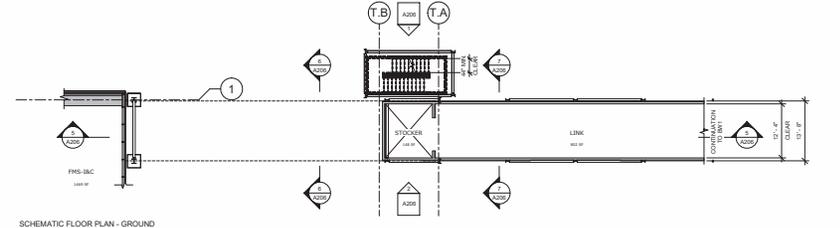




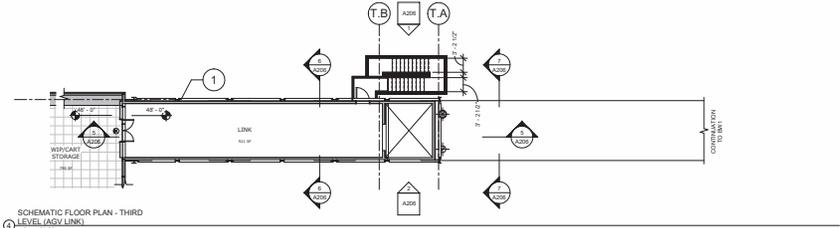
1 LINK EXTERIOR ELEVATION - NORTH  
1" = 10'-0"



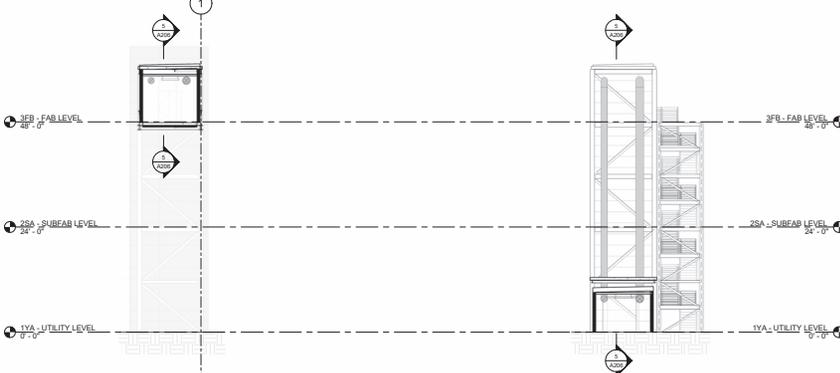
2 LINK EXTERIOR ELEVATION - SOUTH  
1" = 10'-0"



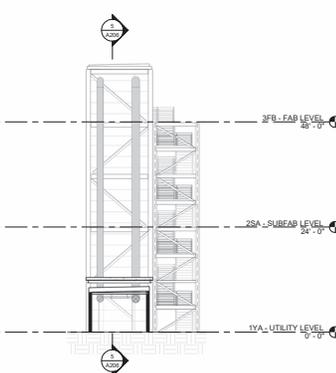
3 SCHEMATIC FLOOR PLAN - GROUND LEVEL (AGV LINK)  
1" = 10'-0"



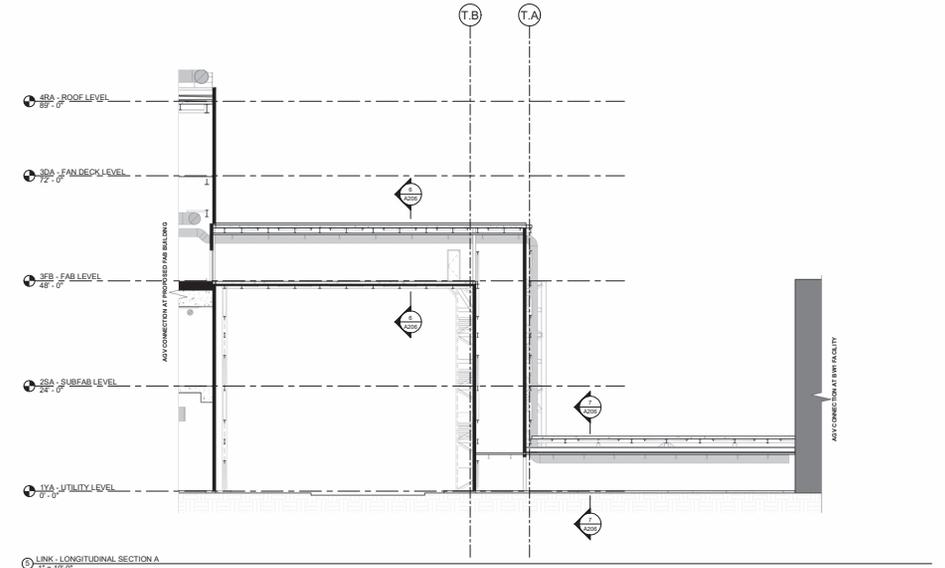
4 SCHEMATIC FLOOR PLAN - THIRD LEVEL (AGV LINK)  
1" = 10'-0"



5 LINK - CROSS SECTION A  
1" = 10'-0"



6 LINK - CROSS SECTION B  
1" = 10'-0"



7 LINK - LONGITUDINAL SECTION A  
1" = 10'-0"

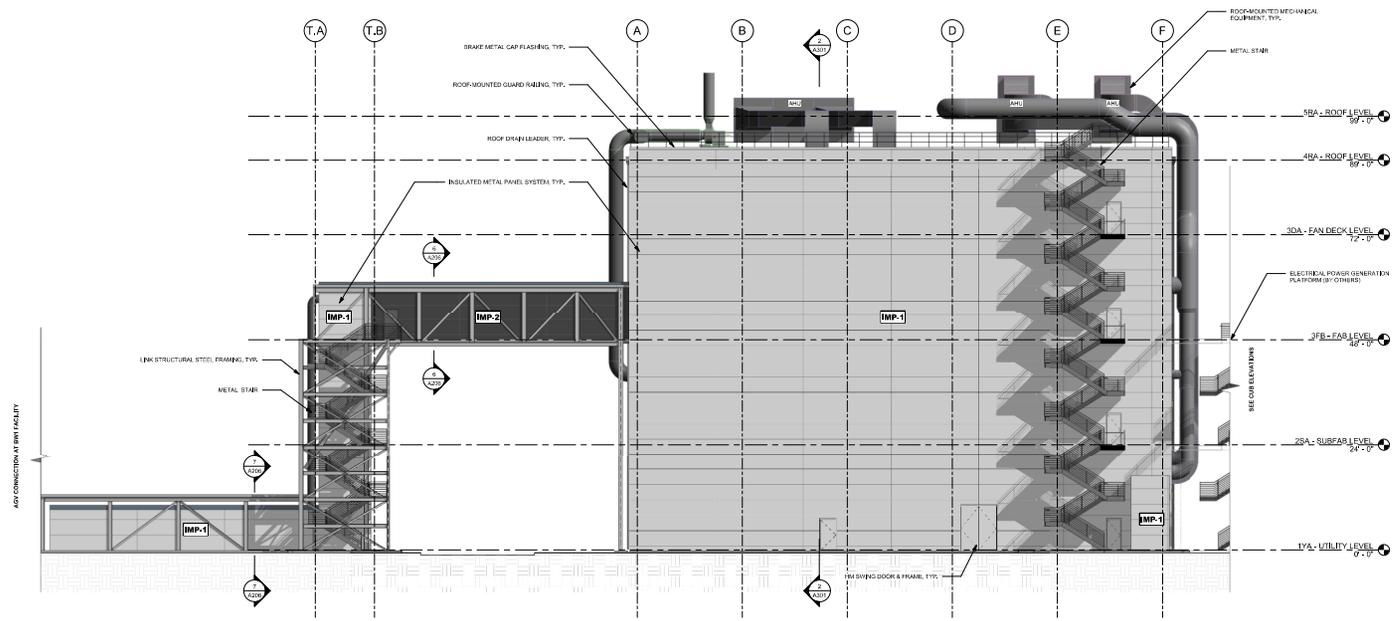
PRIMARY PE STAMP LOCATION	<b>FLUOR</b>
	CA - DMS
JURISDICTION APPROVAL STAMP LOCATION	intel INTEL CORPORATION 205 BOWERS AVENUE SANTA CLARA, CA 95050-4100
	<b>BW2 AND CUB2 - ARCHITECTURE OVERALL - AAA</b>
AGV LINK VIEWS	
X:\B2\2-AAA-050-00-4000-FBD-M-1	
A206	
10/1/2016	
1" = 10'-0"	



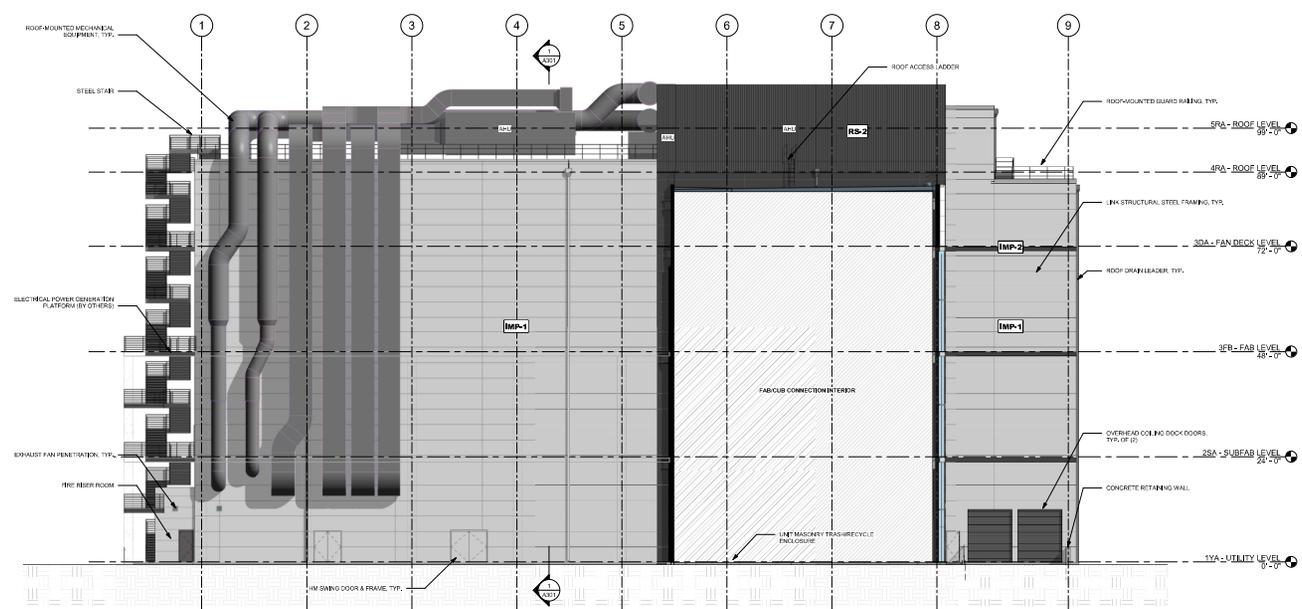


FINISHED FLOOR ELEVATIONS			
LEVEL	NAME	PROJECT	ACTUAL
1YA	UTILITY LEVEL	0'-0"	0'-0"
2SA	SUBFAB LEVEL	24'-0"	24'-0"
3FB	FAB LEVEL	48'-0"	48'-0"
3DA	FAN DECK LEVEL	72'-0"	72'-0"
4RA	ROOF LEVEL	89'-0"	89'-0"

- GENERAL ELEVATION NOTES:**
1. ALL EXTERIOR METALS TO RECEIVE FINISH COATING.
  2. ALL EXTERIOR HOLLOW METAL DOORS & FRAMES SHALL RECEIVE FINISH COATING.
  3. ALL EXTERIOR OVERHEAD DOORS SHALL RECEIVE FINISH COATING.
  4. EXTERIOR FINISHES TO MATCH EXISTING BIL ARCHITECTURAL. SEE ARCHITECTURAL DRAWINGS FOR COORDINATION AND DETAIL REQUIREMENTS.
  5. REFER TO STRUCTURAL DRAWINGS FOR FRAMING REQUIREMENTS.
  6. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT AND DUCT REQUIREMENTS.
  7. EXTERIOR SEPARATION PACKAGE WILL BE PERMITTED UNDER SEPARATE APPLICATION.
  8. REFER TO AIAA ARCHITECTURAL MATERIALS BOARD FOR FINISH SYSTEM DATA.
- XXXX** = FINISH MATERIALS TAG



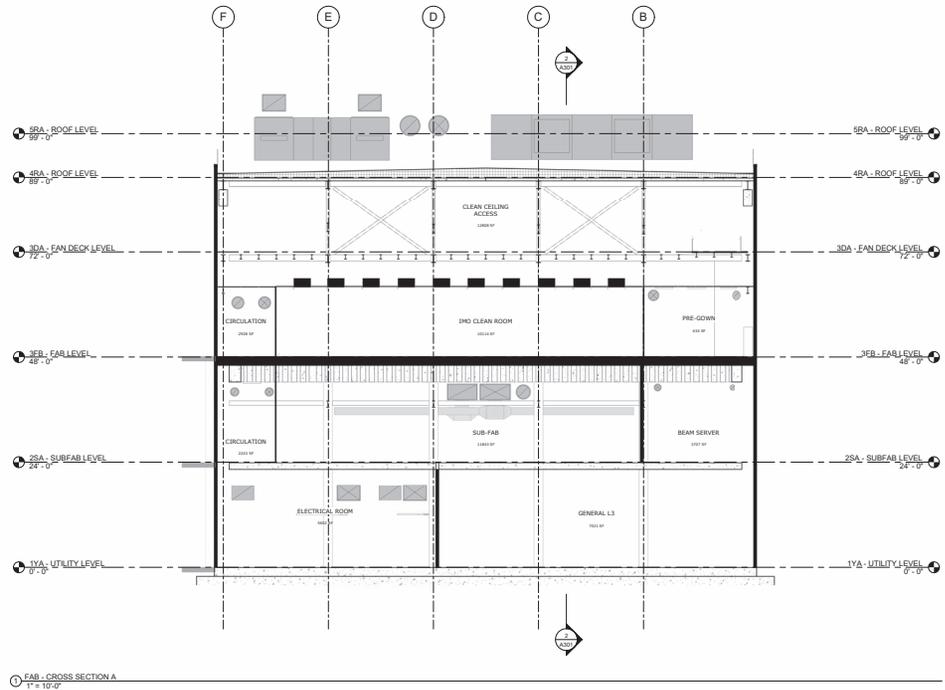
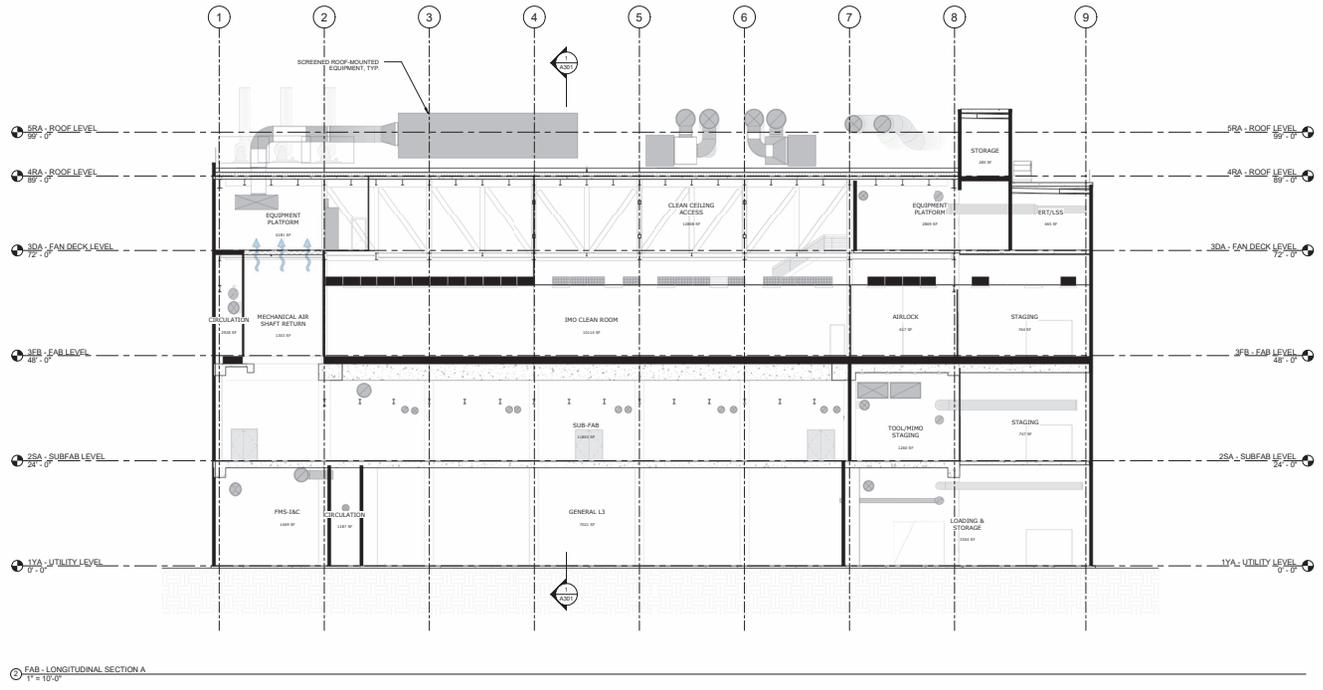
1 FAB EXTERIOR ELEVATION - NORTH  
1" = 10'-0"



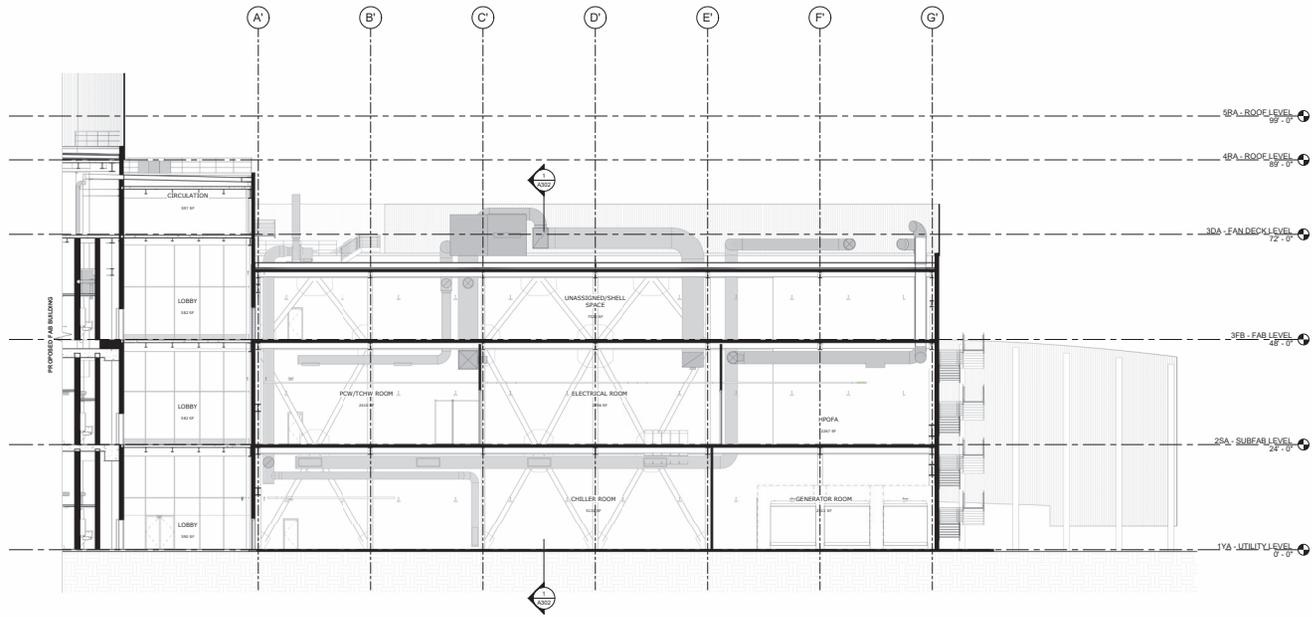
2 FAB EXTERIOR ELEVATION - WEST  
1" = 10'-0"

<p>PRIMARY PE STAMP LOCATION</p> <p><b>RAW</b></p> <p>RAW ARCHITECTURE INCORPORATED 1201 BANGS RD. SUITE 400 SAN FRANCISCO, CALIFORNIA 94104 raw.com</p> <p>Office: 415-781-9500</p>	<p>INTEL CONFIDENTIAL</p> <p><b>intel</b> - DMS</p> <p>INTEL CORPORATION 3005 BOWEN AVENUE SANTA CLARA, CA 95051</p>
<p><b>BW2 AND CUB2 - ARCHITECTURE</b></p> <p><b>FAB - NORTH &amp; WEST</b></p>	
<p><b>SCHEMATIC BUILDING ELEVATIONS</b></p> <p>DATE: 12/15/2011 11:58:40 AM PROJECT: BW2 AND CUB2 - ARCHITECTURE DRAWING: FAB - NORTH &amp; WEST SCALE: 1" = 10'-0"</p>	

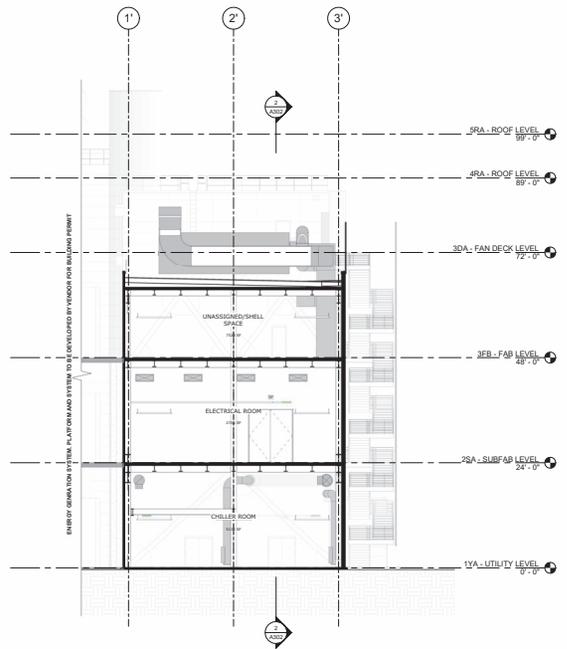




JURISDICTION APPROVAL STAMP LOCATION	PRIMARY PE STAMP LOCATION	
	CA - DMS 	
BW2 AND CUB2 - ARCHITECTURE FAB		
SCHEMATIC SECTIONS		
X:\BW2\AAA-050-AD-4000-FAB.DWG		A301
11/11/2009		1" = 10'-0"



① CUB - LONGITUDINAL SECTION A  
1" = 10'-0"



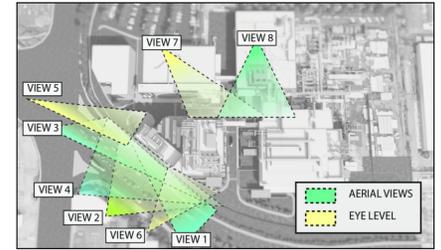
① CUB - CROSS SECTION A  
1" = 10'-0"

<small>DATE: 08/20/2018 10:58:00 AM</small> <small>PROJECT: BW2 AND CUB2 - ARCHITECTURE</small> <small>FILE: CUB - SCHEMATIC SECTIONS.dwg</small>	
PRIMARY PE STAMP LOCATION	
<b>CA - DMS</b> <small>INTEL CORPORATION 2201 BOWERS AVENUE SANTA CLARA, CA 95050-4105</small>	
<b>BW2 AND CUB2 - ARCHITECTURE</b> <b>CUB</b>	
<b>SCHEMATIC SECTIONS</b>	
<small>DESIGNED BY: [REDACTED]</small> <small>CHECKED BY: [REDACTED]</small>	<small>DATE: 08/20/2018</small> <small>TIME: 10:58:00 AM</small>
<small>PROJECT NUMBER: [REDACTED]</small> <small>CLIENT: [REDACTED]</small>	<small>SCALE: 1" = 10'-0"</small>

JURISDICTION  
 APPROVAL  
 STAMP  
 LOCATION



1. OVERALL MAIN VIEW



RENDERING VIEW KEY MAP



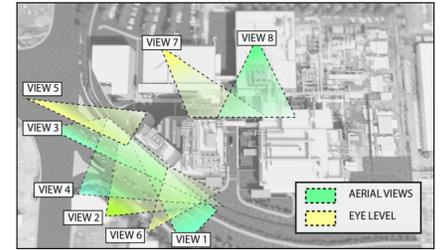
2. CENTRAL EXPRESSWAY ELEVATION

<p>PROJECT: [REDACTED]</p> <p>DATE: [REDACTED]</p> <p>SCALE: [REDACTED]</p> <p>PROJECT LOCATION: [REDACTED]</p>	<p>DATE: [REDACTED]</p> <p>DATE: [REDACTED]</p> <p>DATE: [REDACTED]</p>
<p>PRIMARY PE STAMP LOCATION</p>	<p><b>RAW</b></p> <p>RAW ARCHITECTURE INCORPORATED 221 Montgomery St., Suite 400 San Francisco, CA 94104</p> <p>Office: 415.781.9800 raw.com</p>
<p><b>INTEL CONFIDENTIAL</b></p> <p>ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS THE PROPERTY OF INTEL CORPORATION AND IS TO BE USED ONLY FOR THE PURPOSES AND IN ACCORDANCE WITH THE TERMS OF THE CONFIDENTIALITY AGREEMENT. © 2014 INTEL CORPORATION. ALL RIGHTS RESERVED.</p>	<p><b>CA - DMS</b></p> <p>INTEL CORPORATION 3065 BOWLING AVENUE SANTA CLARA, CA 95051</p>
<p><b>BW2 AND CUB2 - ARCHITECTURE</b></p> <p>OVERALL - AAA</p>	
<p>RENDERED VIEWS</p>	
<p>DATE: [REDACTED]</p> <p>PROJECT: [REDACTED]</p>	<p>DATE: [REDACTED]</p> <p>PROJECT: [REDACTED]</p>





5. BOWERS ST. & CENTRAL EXPRESSWAY LOOKING EAST



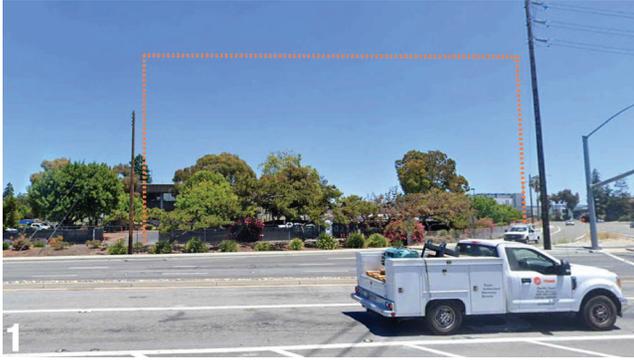
RENDERING VIEW KEY MAP



6. VIEW FROM CENTRAL EXPRESSWAY LOOKING NORTH

PROJECT NO.	DATE	SCALE			
DESIGNED BY	DATE	SCALE			
CHECKED BY	DATE	SCALE			
APPROVED BY	DATE	SCALE			
PROJECT NAME	PROJECT LOCATION				
<table border="0"> <tr> <td>PRIMARY PE STAMP LOCATION</td> <td> <b>RAW</b>  <small>RAW ARCHITECTURE</small>  <small>121 Montgomery St.</small>  <small>Suite 400</small>  <small>San Francisco, CA 94104</small> </td> <td> <small>Office</small>  <small>415.781.9800</small>  <small>raw.com</small> </td> </tr> </table>			PRIMARY PE STAMP LOCATION	<b>RAW</b> <small>RAW ARCHITECTURE</small> <small>121 Montgomery St.</small> <small>Suite 400</small> <small>San Francisco, CA 94104</small>	<small>Office</small> <small>415.781.9800</small> <small>raw.com</small>
PRIMARY PE STAMP LOCATION	<b>RAW</b> <small>RAW ARCHITECTURE</small> <small>121 Montgomery St.</small> <small>Suite 400</small> <small>San Francisco, CA 94104</small>	<small>Office</small> <small>415.781.9800</small> <small>raw.com</small>			
<table border="0"> <tr> <td> <small>INTEL CONFIDENTIAL</small>  <small>ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS THE PROPERTY OF INTEL CORPORATION AND IS TO BE USED ONLY FOR THE PURPOSES AND TIME PERIOD SPECIFIED BY THIS AGREEMENT. ANY DISSEMINATION OF THIS INFORMATION TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF INTEL CORPORATION IS PROHIBITED.</small> </td> <td> <b>CA - DMS</b>  <small>INTEL CORPORATION</small>  <small>3005 BOWERS AVENUE</small>  <small>SAN JOSE, CALIF. CA 95008</small> </td> </tr> </table>			<small>INTEL CONFIDENTIAL</small> <small>ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS THE PROPERTY OF INTEL CORPORATION AND IS TO BE USED ONLY FOR THE PURPOSES AND TIME PERIOD SPECIFIED BY THIS AGREEMENT. ANY DISSEMINATION OF THIS INFORMATION TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF INTEL CORPORATION IS PROHIBITED.</small>	<b>CA - DMS</b> <small>INTEL CORPORATION</small> <small>3005 BOWERS AVENUE</small> <small>SAN JOSE, CALIF. CA 95008</small>	
<small>INTEL CONFIDENTIAL</small> <small>ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS THE PROPERTY OF INTEL CORPORATION AND IS TO BE USED ONLY FOR THE PURPOSES AND TIME PERIOD SPECIFIED BY THIS AGREEMENT. ANY DISSEMINATION OF THIS INFORMATION TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF INTEL CORPORATION IS PROHIBITED.</small>	<b>CA - DMS</b> <small>INTEL CORPORATION</small> <small>3005 BOWERS AVENUE</small> <small>SAN JOSE, CALIF. CA 95008</small>				
<b>BW2 AND CUB2 - ARCHITECTURE</b> <b>OVERALL - AAA</b>					
<b>RENDERED VIEWS</b>					
VIEW NO.	DATE	SCALE			
VIEW 1	11/11/2011	1/8" = 1'-0"			
VIEW 2	11/11/2011	1/8" = 1'-0"			
VIEW 3	11/11/2011	1/8" = 1'-0"			
VIEW 4	11/11/2011	1/8" = 1'-0"			
VIEW 5	11/11/2011	1/8" = 1'-0"			
VIEW 6	11/11/2011	1/8" = 1'-0"			
VIEW 7	11/11/2011	1/8" = 1'-0"			
VIEW 8	11/11/2011	1/8" = 1'-0"			





1



4



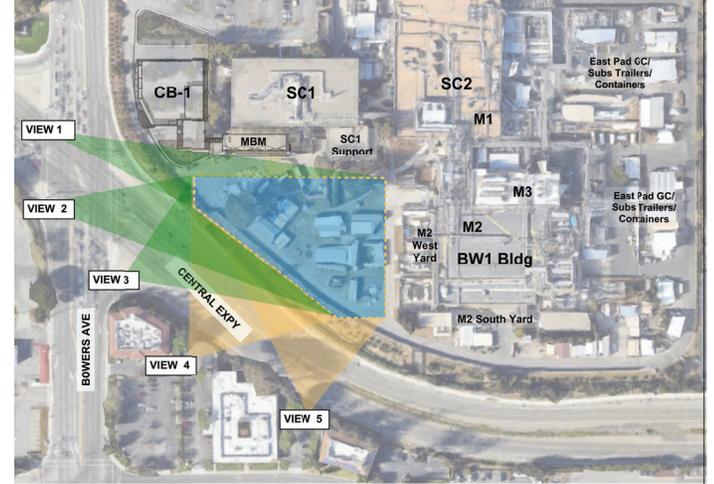
2



5



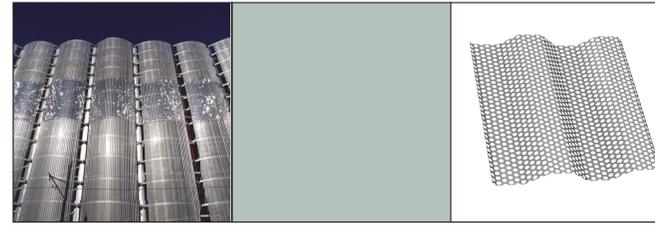
3



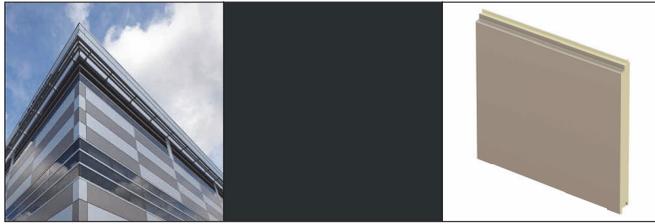
<small>PROJECT: BOWERS AVE - CORRIDOR STUDY          DATE: 08/14/2014          DRAWN BY: J. BOWEN</small>	
<b>PRIMARY PE          STAMP          LOCATION</b>	
<b>CA - DMS</b> <small>INTEL CORPORATION          3000 BOWERS AVENUE          SANTA CLARA, CA 95052-8135</small>	
<b>BW2 AND CUB2 - ARCHITECTURE          OVERALL - AAA</b>	
<b>VIEW CORRIDOR/PUBLIC WAY DIAGRAMS</b>	
<small>DATE: 08/14/2014          FILE: J:\BOWERS\2-AAA-000-AD-AC000-FS-DM.dwg          PLOT: 08/14/2014</small>	<b>A106</b> <small>08/14/2014</small>



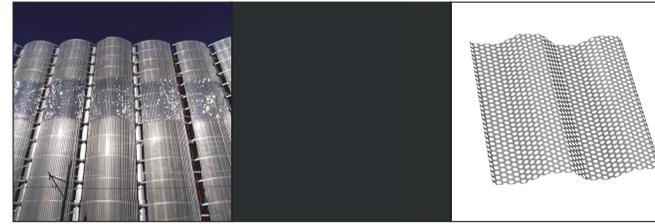
**IMP-1: INSULATED METAL PANEL**  
 CENTRIA - VERSAWALL  
 HORIZONTAL ORIENTED  
 CENTRIA FACTORY UNEMBOSSED FLAT FINISH  
 9917 "LIGHT GRAY" (MATCH EXIST CUB1)



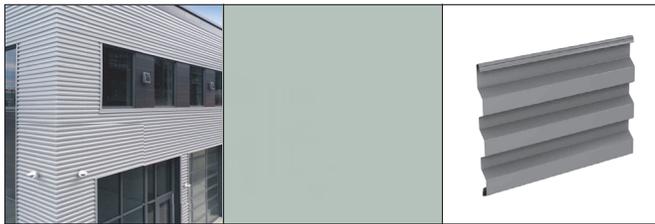
**RS-1: SCREEN PANEL**  
 CENTRIA - ECOSCREEN - RB - ALUMINUM  
 CENTRIA FACTORY FINISH  
 9917 "LIGHT GRAY" (MATCH EXIST CUB1)



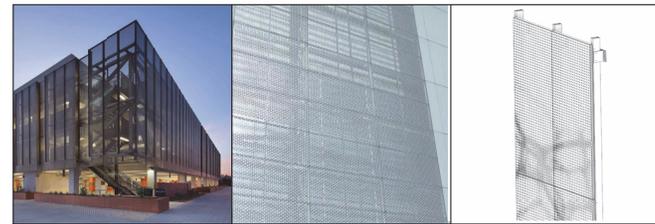
**IMP-2: INSULATED METAL PANEL**  
 CENTRIA - VERSAWALL  
 HORIZONTAL ORIENTED  
 CENTRIA FACTORY UNEMBOSSED FLAT FINISH  
 9916 "RICH BLACK" (MATCH EXIST CUB1)



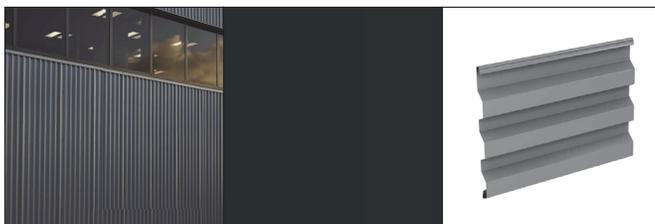
**RS-2: SCREEN PANEL**  
 CENTRIA - ECOSCREEN - RB - ALUMINUM  
 CENTRIA FACTORY FINISH  
 9916 "RICH BLACK" (MATCH EXIST CUB1)



**PMP-1: SINGLE SKIN METAL PANEL**  
 CENTRIA - CONCEPT SERIES - CS-260E  
 VERTICAL ORIENTED  
 CENTRIA FACTORY FLAT FINISH  
 9917 "LIGHT GRAY" (MATCH EXIST CUB1)



**RS-3: DECORATIVE SCREEN WALL**  
 ZANNER - DROP & LOCK SYSTEM  
 PERFORATED METAL PANEL SCREEN  
 GB-60 "STAINLESS STEEL - BRUSHED"



**PMP-2: SINGLE SKIN METAL PANEL**  
 CENTRIA - CONCEPT SERIES - CS-260E  
 VERTICAL ORIENTED  
 CENTRIA FACTORY FLAT FINISH  
 9916 "RICH BLACK" (MATCH EXIST CUB1)



**GL-1: GLAZED CURTAIN WALL SYSTEM**  
 QUICCASTLE - RELIANCE/CLT1  
 2" ALUMINUM SIGHTLINE - ANODIZED "BLACK" (MATCH EXIST CUB1)  
 1" LOW-E INSULATED GLAZING - SOLARBAN 70 "OPTIBLUE" + "CLEAR"

PRIMARY PE STAMP LOCATION	
JURISDICTION APPROVAL STAMP LOCATION	<b>BW2 AND CUB2 - ARCHITECTURE</b> <b>OVERALL - AAA</b>
	<b>ARCHITECTURAL MATERIALS BOARD</b> A604



**SITE DATA**  
 Lot Size: 28.9 Acres or 1,138,000 Sq. Ft.  
 Zoning: HD-40: High Density Office Research and Development

**ZONING COMPLIANCE SUMMARY**  
 GROSS BUILDING AREA TO FACE OF EXTERIOR WALL

**FLOOR AREA RATIO/FAR CALCULATIONS**

	EXISTING GFA (Sq Ft)	MAX FAR x SUB (Sq Ft)	TOTAL GFA (Sq Ft)
PRIMARY STRUCTURES	311,702	651,871	963,573
LONG TERM TEMPORARY	22,885	1,2720	24,155
COVERED EXTERIOR WALKWAYS	20,965	7,025	27,990
<b>TOTAL BUILDING GROSS FLOOR AREA (GFA)</b>	<b>355,552</b>	<b>666,116</b>	<b>1,021,668</b>
<b>FUNCTIONAL GROSS BY TOTAL NET AREA</b>	<b>8.24</b>	<b>8.38</b>	<b>8.44</b>

Includes FAR for SDW 702, north electric panel expansion currently under permitting with City.

**PARKING CALCULATIONS**

PARKING CODE REQUIREMENTS	EXISTING	MAX FAR - SUB	TOTAL
GFA (Sq Ft)	Parking Req.	GFA (Sq Ft)	Parking Req.
Industrial (15,000 Sq/Ft)	90,350	26,251	116,601
Research & Development (17,750 Sq/Ft)	30,885	13,196	44,081
Other Office (17,000 Sq/Ft)	18,822	10,906	29,728
<b>TOTAL PARKING REQUIRED</b>	<b>140,057</b>	<b>50,353</b>	<b>190,410</b>
<b>EXISTING AVAILABLE*</b>	<b>217.3</b>	<b>1.4</b>	<b>218.7</b>

\*Refer to zoning diagrams sheets for detailed calculations.  
 \*Notations for parking maximums are SDW 702 north electric panel expansion under permitting with City.  
 Note: No additional Head count is being added for the project.

**BW2 BUILDING**

Building Footprint Area	23,849	USAGE FOR PARKING
<b>1YA - GROUND LEVEL</b>		
COMMON AREAS	1075	R&D
DATA CENTER	7059	DATA CENTER
FACILITIES SUPPORT	14911	EXEMPT
VERTICAL CIRCULATION	804	EXEMPT
<b>1DA - TOTAL</b>	<b>23,849</b>	
<b>2SA - SECOND LEVEL</b>		
CLEANROOM	10451	INDUSTRIAL
COMMON AREAS	6136	R&D
DATA CENTER	3846	DATA CENTER
FACILITIES SUPPORT	2146	EXEMPT
<b>2DA - TOTAL</b>	<b>22,579</b>	
<b>3BA - THIRD LEVEL</b>		
CLEANROOM	14850	INDUSTRIAL
COMMON AREAS	5362	R&D
FACILITIES SUPPORT	2017	EXEMPT
<b>3FA - TOTAL</b>	<b>22,229</b>	
<b>3DA - FAN DECK LEVEL</b>		
FACILITIES SUPPORT	8,253	EXEMPT
COMMON AREAS	623	R&D
<b>INTERSTITIAL - TOTAL</b>	<b>8,876</b>	
<b>BW2 TOTAL GROSS SF</b>	<b>77,433</b>	

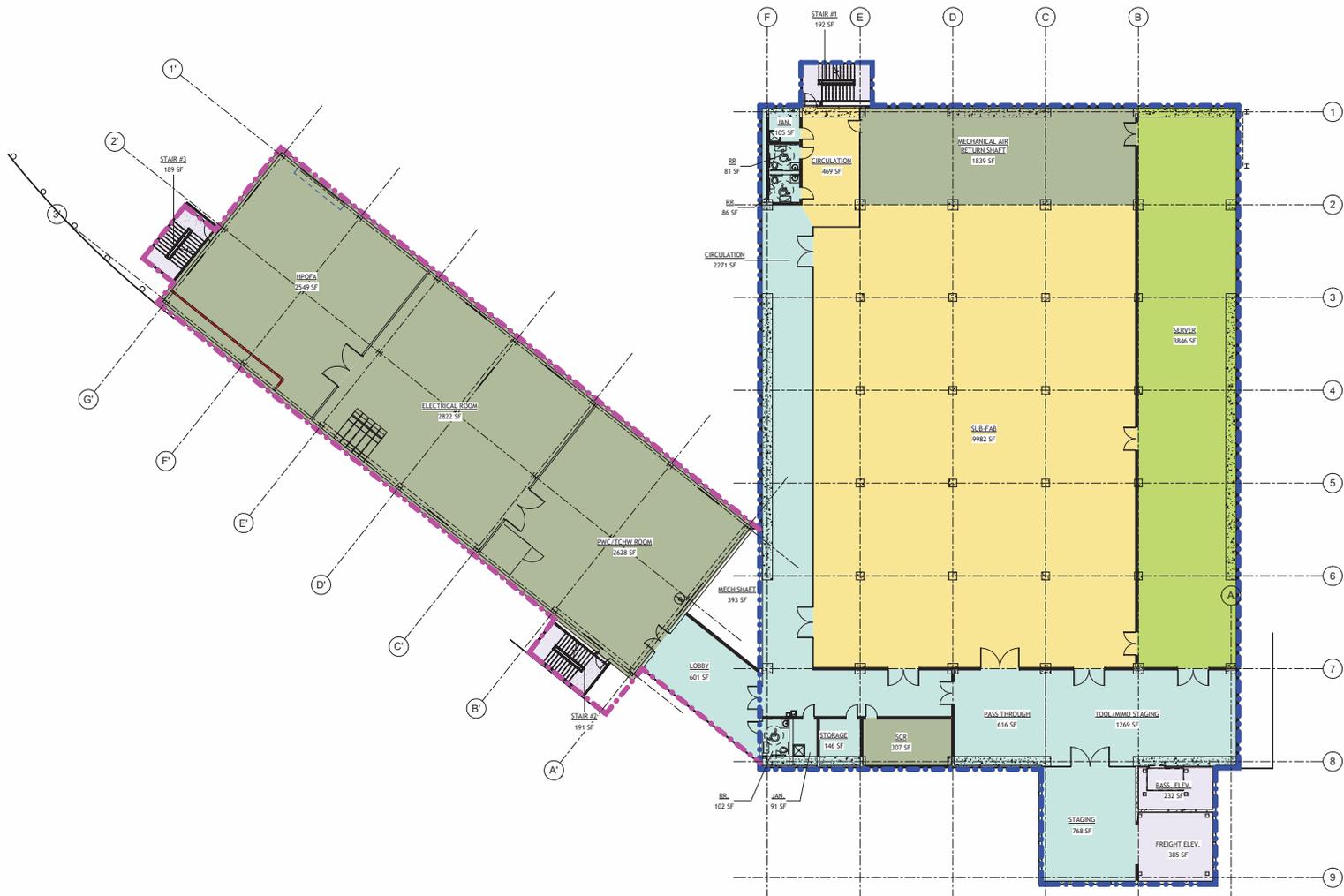
**CUB2 BUILDING**

Building Footprint Area	8,440	USAGE FOR PARKING
<b>1DA - GROUND LEVEL</b>		
FACILITIES SUPPORT	8070	EXEMPT
VERTICAL CIRCULATION	370	EXEMPT
<b>1DA - TOTAL</b>	<b>8,440</b>	
<b>2DA - SECOND LEVEL</b>		
FACILITIES SUPPORT	7999	EXEMPT
<b>2DA - TOTAL</b>	<b>7,999</b>	
<b>3DA - THIRD LEVEL</b>		
FACILITIES SUPPORT	7,999	EXEMPT
<b>3DA - TOTAL</b>	<b>7,999</b>	
<b>CUB2 TOTAL GROSS SF</b>	<b>24,438</b>	

**USE TYPE COLOR LEGEND**

- CLEANROOM
- COMMON AREA
- DATA CENTER
- FACILITIES SUPPORT
- VERTICAL CIRCULATION

NOTE: THE BW2 AND CUB2 ARE CONSIDERED AS ONE BUILDING FOR PLANNING PURPOSES AND WILL BE SUBMITTED UNDER ONE BUILDING PERMIT PACKAGE TO ADDRESS THE SEPARATE STRUCTURES.



PRIMARY PE STAMP LOCATION	FLUOR
JURISDICTION APPROVAL STAMP LOCATION	<p><b>CA - DMS</b></p> <p><b>intel</b></p> <p>INTEL CORPORATION        205 BOWEN AVENUE        SANTA CLARA, CA 95050-5000</p> <p><b>BW2 AND CUB2 - ARCHITECTURE</b>  <b>ARCHITECTURAL</b>  <b>D2E3X</b>  <b>SECOND LEVEL FLOOR PLAN - FUNCTIONAL USES</b></p> <p>182818W2-AAA-000-AD-0000-F00-DM-11        A802</p>

1" = 10'-0"

**SITE DATA**  
 Lot Size 28.9 acres or 1,138,000 Sq. Ft.  
 Zoning HD-40: High Density Office Research and Development

**ZONING COMPLIANCE SUMMARY**  
 GROSS BUILDING AREA TO FACE OF EXTERIOR WALL

**FLOOR AREA RATIO (FAR) CALCULATIONS**

	EXISTING GFA (Sq. Ft.)	MAX FLOOR GFA (Sq. Ft.)	TOTAL GFA (Sq. Ft.)
PRIMARY STRUCTURES	381,702	451,871	833,573
LONG TERM TEMPORARY	22,885	1,2720	24,155
COVERED EXTERIOR WALKWAYS	20,965	7,700	28,665
<b>TOTAL BUILDING GROSS FLOOR AREA (GFA)</b>	<b>381,702</b>	<b>451,871</b>	<b>833,573</b>
<b>MAX TOTAL GROSS BY TOTAL SITE AREA</b>	<b>824</b>	<b>828</b>	<b>828</b>

Includes FAR for SDW 202, north electric panel expansion currently under permitting with City

**PARKING CALCULATIONS**

PARKING CODE REQUIREMENTS	EXISTING	MAX FAR CURB	TOTAL
	GFA (Sq. Ft.)	Parking Req.	GFA (Sq. Ft.)
Industrial (1,000 SqFt)	80,000	80.0	26,251
Research & Development (1,750 SqFt)	80,000	133	13,300
Other Office (1,000 SqFt)	18,802	1	10,000
<b>TOTAL PARKING REQUIRED</b>	<b>287.8</b>	<b>1</b>	<b>49.3</b>
<b>EXISTING AVAILABLE*</b>			<b>493</b>

\*Refer to zoning diagrams sheets for detailed calculations.  
 \*Notations for parking maximums are in SDW 202 north electric panel expansion under permitting with City  
 Note: No additional Hour count is being added for the project

**BW2 BUILDING**

Building Footprint Area	23,849	USAGE FOR PARKING
<b>1YA - GROUND LEVEL</b>		
COMMON AREAS	1075	R&D
DATA CENTER	7059	DATA CENTER
FACILITIES SUPPORT	14911	EXEMPT
VERTICAL CIRCULATION	804	EXEMPT
<b>1DA - TOTAL</b>	<b>23,849</b>	
<b>2SA - SECOND LEVEL</b>		
CLEANROOM	10451	INDUSTRIAL
COMMON AREAS	6136	R&D
DATA CENTER	3846	DATA CENTER
FACILITIES SUPPORT	2146	EXEMPT
<b>2DA - TOTAL</b>	<b>22,579</b>	
<b>3RA - THIRD LEVEL</b>		
CLEANROOM	14850	INDUSTRIAL
COMMON AREAS	5362	R&D
FACILITIES SUPPORT	2017	EXEMPT
<b>3FA - TOTAL</b>	<b>22,229</b>	
<b>3DA - FAN DECK LEVEL</b>		
FACILITIES SUPPORT	8,253	EXEMPT
COMMON AREAS	623	R&D
<b>INTERSTITIAL - TOTAL</b>	<b>8,876</b>	
<b>BW2 TOTAL GROSS SF</b>	<b>77,439</b>	

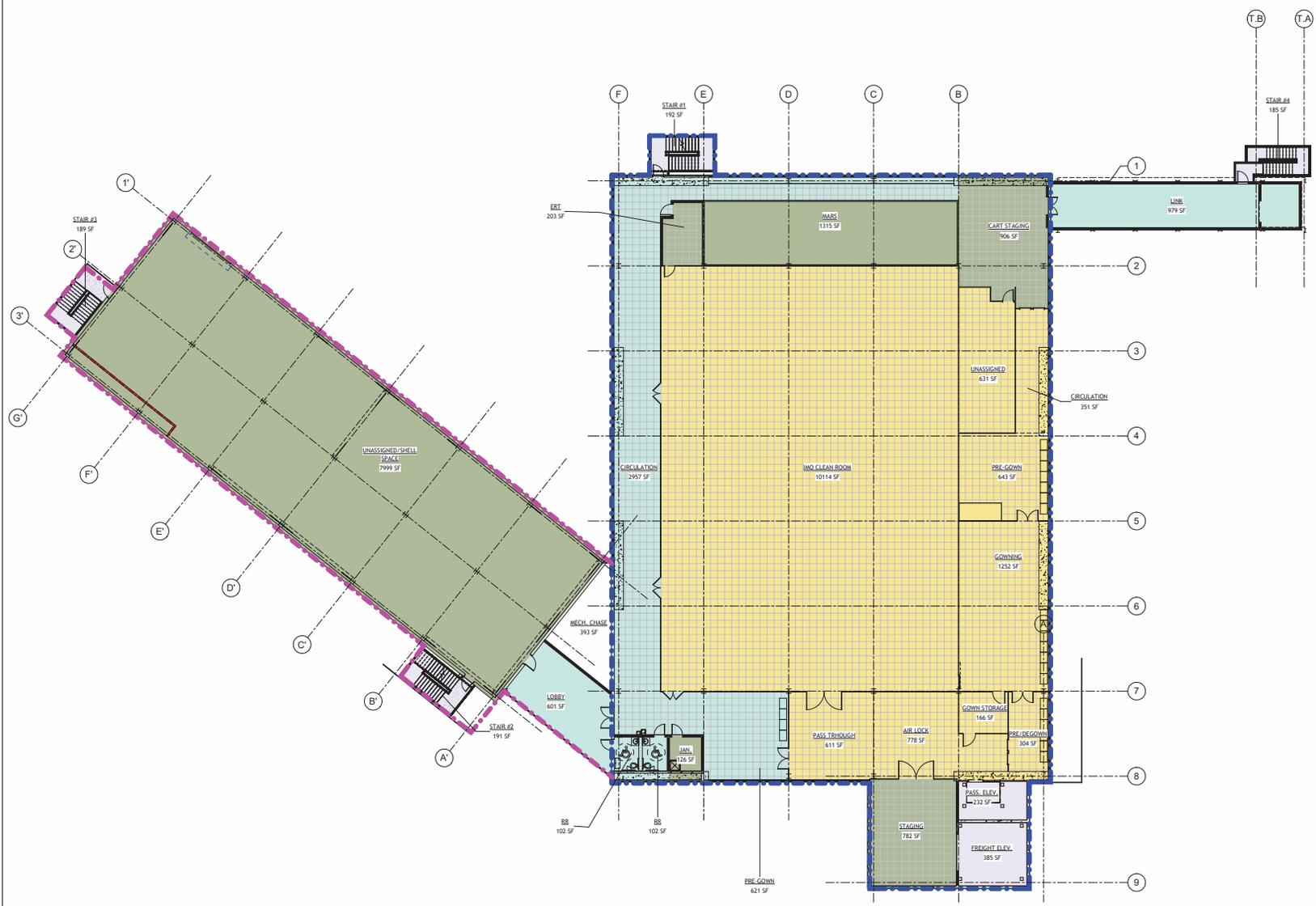
**CUB2 BUILDING**

Building Footprint Area	8,440	USAGE FOR PARKING
<b>1DA - GROUND LEVEL</b>		
FACILITIES SUPPORT	8070	EXEMPT
VERTICAL CIRCULATION	370	EXEMPT
<b>1DA - TOTAL</b>	<b>8,440</b>	
<b>2DA - SECOND LEVEL</b>		
FACILITIES SUPPORT	7999	EXEMPT
<b>2DA - TOTAL</b>	<b>7,999</b>	
<b>3DA - THIRD LEVEL</b>		
FACILITIES SUPPORT	7,999	EXEMPT
<b>3DA - TOTAL</b>	<b>7,999</b>	
<b>CUB2 TOTAL GROSS SF</b>	<b>24,438</b>	

**USE TYPE COLOR LEGEND**

- CLEANROOM
- COMMON AREA
- DATA CENTER
- FACILITIES SUPPORT
- VERTICAL CIRCULATION
- BW2 BUILDING
- CUB2 BUILDING

NOTE: THE BW2 AND CUB2 ARE CONSIDERED AS ONE BUILDING FOR PLANNING PURPOSES AND WILL BE SUBMITTED UNDER ONE BUILDING PERMIT PACKAGE TO ADDRESS THE SEPARATE STRUCTURES.



PRIMARY PE STAMP LOCATION	<b>FLUOR</b>
JURISDICTION APPROVAL STAMP LOCATION	<b>CA - DMS</b> <b>intel</b> INTEL CORPORATION 2005 BOWEN AVENUE SANTA CLARA, CA 95050-4100 <b>BW2 AND CUB2 - ARCHITECTURE</b> <b>ARCHITECTURAL</b> <b>D2E3X</b> <b>THIRD LEVEL (FAB) PLAN - FUNCTIONAL USES</b> 1803

1" = 10'-0"

**SITE DATA**  
 Lot Size: 28.9 acres or 1,138,000 Sq. Ft.  
 Zoning: HD-40: High Density Office Research and Development

**ZONING COMPLIANCE SUMMARY**  
 GROSS BUILDING AREA TO FACE OF EXTERIOR WALL

**FLOOR AREA RATIO (FAR) CALCULATIONS**

	EXISTING GFA (Sq Ft)	MAX FLOOR GFA (Sq Ft)	TOTAL GFA (Sq Ft)
PRIMARY STRUCTURES	381,707	451,871	833,578
LONG TERM TEMPORARY	22,885	1,2720	24,155
COVERED EXTERIOR WALKWAYS	20,865	1,700	22,565
<b>TOTAL BUILDING GROSS FLOOR AREA (GFA)</b>	<b>381,707</b>	<b>451,871</b>	<b>833,578</b>
<b>MAX FLOOR GROSS BY TOTAL SITE AREA</b>	<b>1,244</b>	<b>4,000</b>	<b>4,000</b>

**PARKING CALCULATIONS**

PARKING CODE REQUIREMENTS	EXISTING GFA (Sq Ft)	Parking Req.	MAX FAR - CURB GFA (Sq Ft)	Parking Req.	TOTAL PARKING
Industrial (1:1000 SqFt)	80,385	80.3	26,351	26.3	150
Research & Development (1:750 SqFt)	30,885	133	13,196	17	140
Other Office (1:1000 SqFt)	18,892	1	18,896	1	7
<b>TOTAL PARKING REQUIRED</b>		<b>217.3</b>		<b>45.3</b>	<b>265</b>
<b>SITE PARKING AVAILABLE*</b>					<b>453</b>

\*Refer to zoning diagrams sheets for detailed calculations.  
 \*Notations for parking maximums are in 2009 IBC, north-south-south-south expansion under permitting with City.  
 Note: No additional Head count is being added for the project.

**BW2 BUILDING**

Building Footprint Area	23,849	USAGE FOR PARKING
<b>1YA - GROUND LEVEL</b>		
COMMON AREAS	1075	R&D
DATA CENTER	7059	DATA CENTER
FACILITIES SUPPORT	14911	EXEMPT
VERTICAL CIRCULATION	804	EXEMPT
<b>1YA - TOTAL</b>	<b>23,849</b>	
<b>2SA - SECOND LEVEL</b>		
CLEANROOM	10451	INDUSTRIAL
COMMON AREAS	6136	R&D
DATA CENTER	3846	DATA CENTER
FACILITIES SUPPORT	2146	EXEMPT
<b>2SA - TOTAL</b>	<b>22,579</b>	
<b>3BA - THIRD LEVEL</b>		
CLEANROOM	14850	INDUSTRIAL
COMMON AREAS	5362	R&D
FACILITIES SUPPORT	2017	EXEMPT
<b>3BA - TOTAL</b>	<b>22,229</b>	
<b>3DA - FAN DECK LEVEL</b>		
FACILITIES SUPPORT	8,253	EXEMPT
COMMON AREAS	623	R&D
<b>INTERSTITIAL - TOTAL</b>	<b>8,876</b>	
<b>BW2 TOTAL GROSS SF</b>	<b>77,433</b>	

**CUB2 BUILDING**

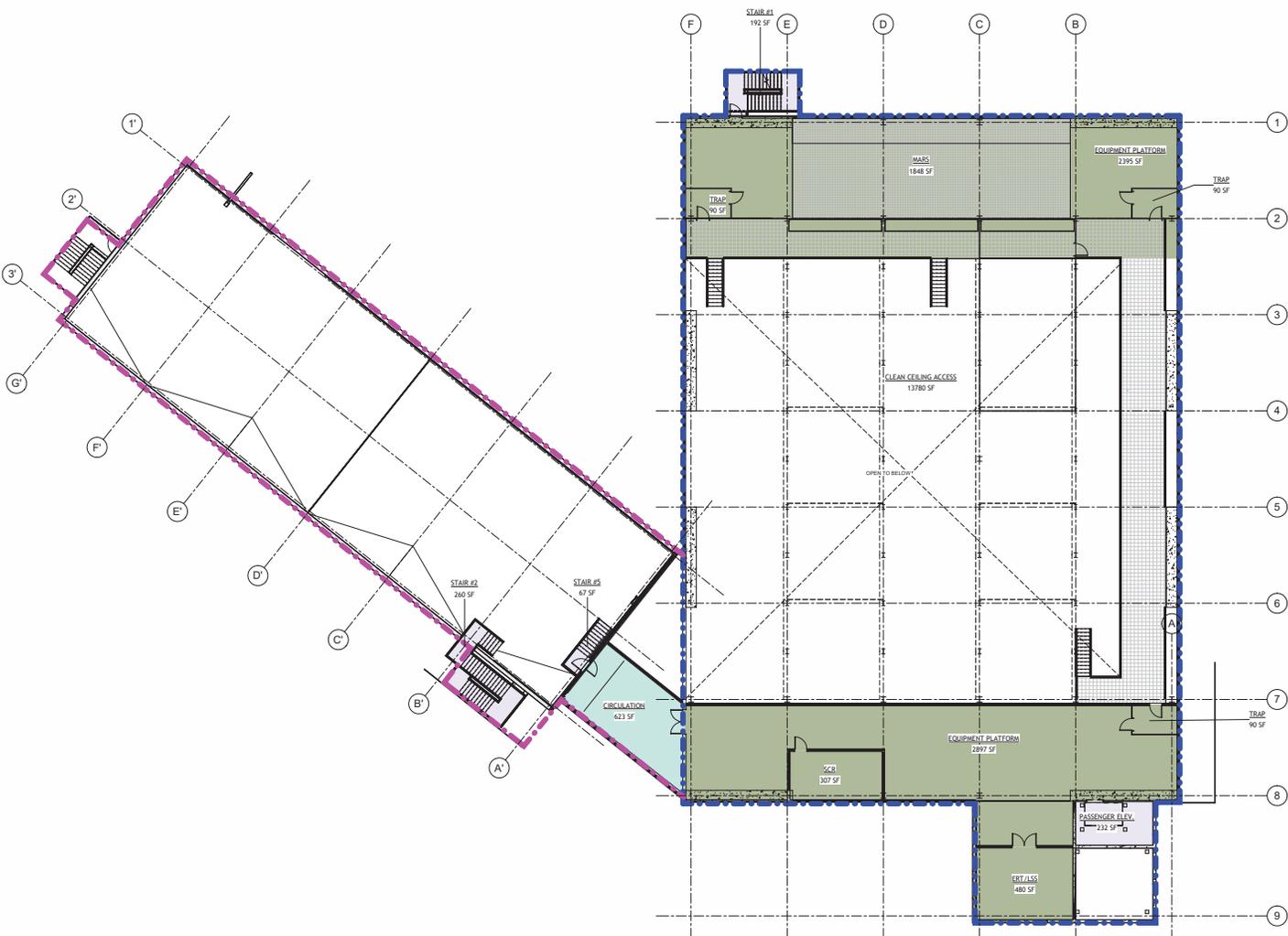
Building Footprint Area	8,440	USAGE FOR PARKING
<b>1DA - GROUND LEVEL</b>		
FACILITIES SUPPORT	8070	EXEMPT
VERTICAL CIRCULATION	370	EXEMPT
<b>1DA - TOTAL</b>	<b>8,440</b>	
<b>2DA - SECOND LEVEL</b>		
FACILITIES SUPPORT	7999	EXEMPT
<b>2DA - TOTAL</b>	<b>7,999</b>	
<b>3DA - THIRD LEVEL</b>		
FACILITIES SUPPORT	7,999	EXEMPT
<b>3DA - TOTAL</b>	<b>7,999</b>	
<b>CUB2 TOTAL GROSS SF</b>	<b>24,438</b>	

**USE TYPE COLOR LEGEND**

- CLEANROOM
- COMMON AREA
- DATA CENTER
- FACILITIES SUPPORT
- VERTICAL CIRCULATION

- BW2 BUILDING
- CUB2 BUILDING

NOTE: THE BW2 AND CUB2 ARE CONSIDERED AS ONE BUILDING FOR PLANNING PURPOSES AND WILL BE SUBMITTED UNDER ONE BUILDING PERMIT PACKAGE TO ADDRESS THE SEPARATE STRUCTURES.



PRIMARY PE STAMP LOCATION	<b>FLUOR</b>
JURISDICTION APPROVAL STAMP LOCATION	<b>CA - DMS</b> <b>intel</b> INTEL CORPORATION 2005 BOWERS AVENUE SANTA CLARA, CA 95050-4100 <b>BW2 AND CUB2 - ARCHITECTURE</b> <b>ARCHITECTURAL</b> <b>D2E3X</b> <b>THIRD LEVEL (FAN DECK) PLAN - FUNCTIONAL USES</b> 1804 1/17/2024

1" = 10'-0"

A1	A2	A3	A4	A5
B1	B2	B3	B4	B5
C1	C2	C3	C4	C5
D1	D2	D3	D4	D5
E1	E2	E3	E4	E5

**BWC**  
**KEY PLAN**



**GENERAL NOTES**

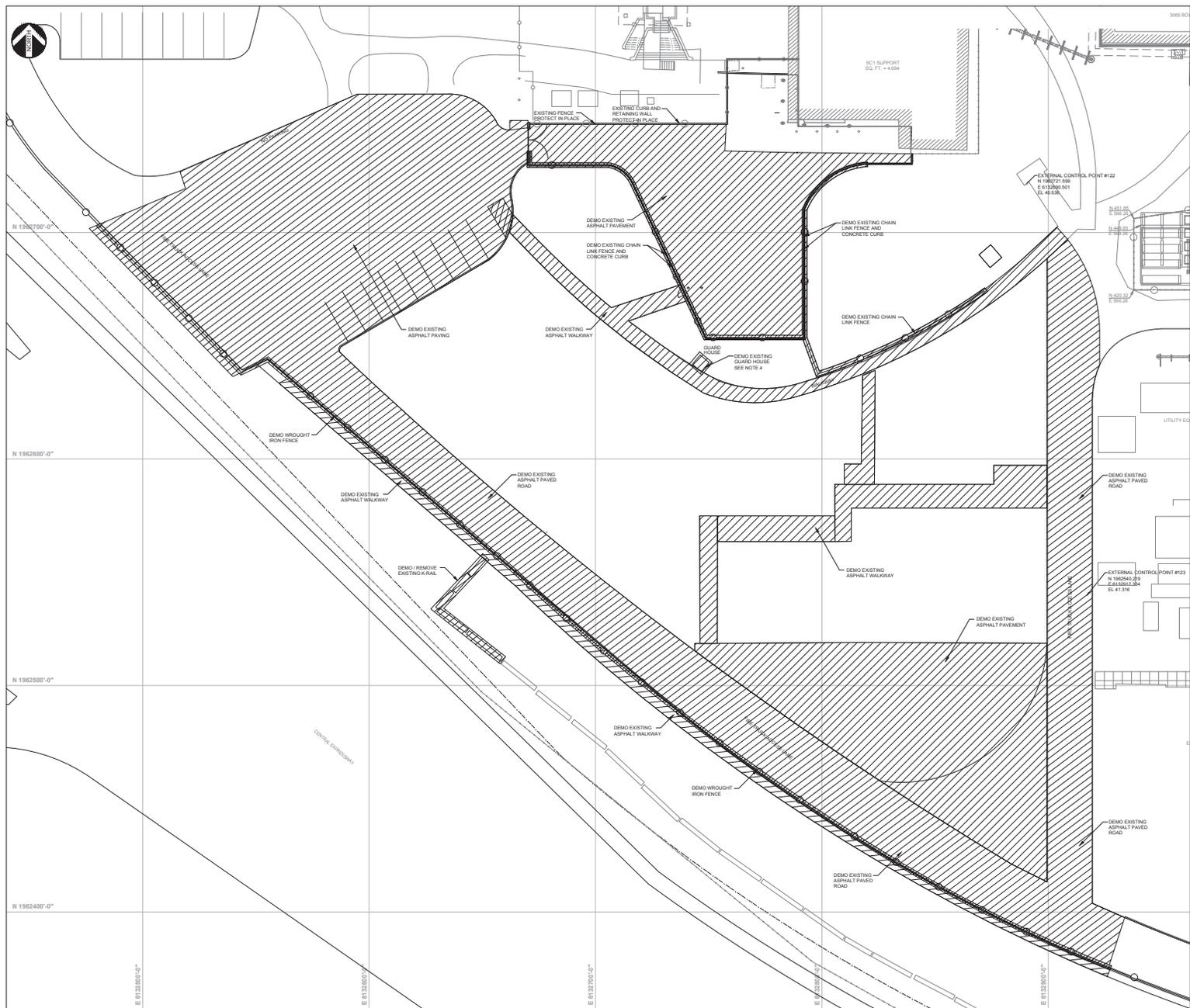
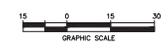
- ALL COORDINATES AND DIMENSIONS ARE IN FEET-INCHES UNLESS OTHERWISE SHOWN ARE SITE PLANE COORDINATES AND THE NORTH ARROW SHOWN IS TRUE NORTH.
- THE DEMOLITION ITEMS LISTED ARE DERIVED FROM INTEL'S DMB FILES, WHICH INCLUDE TOPOGRAPHIC, UTILITY, AND FINISH DATA. ADDITIONAL VERIFICATION WAS CONDUCTED USING AVAILABLE ONLINE SATELLITE IMAGES. THE DEMOLITION REQUIREMENTS WILL NEED FURTHER CONFIRMATION ONCE THE TOPOGRAPHIC SURVEY IS PERFORMED AND MADE AVAILABLE.
- MODIFICATIONS TO THE NORTH AND NORTHWEST OF DEMO LIMITS ARE PLANNED TO BE MADE THROUGH ROW #25 AND #43 PACKAGES. THOSE MODIFICATIONS ARE NOT ENTIRELY REFLECTED IN THE BACKGROUND OF THIS DRAWING AND WILL NEED TO BE CONFIRMED ONCE TOPOGRAPHIC SURVEY IS PERFORMED.
- DEMOLITION OF GUARD SHACK IS ALSO TO INCLUDE REMOVAL OF POWER LINES TO GUARD SHACK THAT ARE RUNNING ALONG THE FENCE INSIDE SCI PANEL RUBST CMB 1.3.
- DEMOLITION TO ALSO INCLUDE:
  - SECURITY WIRESS STYLE RUNNING FROM GUARD SHACK TO THE SMALL GATE
  - UNKNOWN 50' CORD RUNNING IN PVP
  - MULTIPLE 4" ABANDONED CONCRETS THAT WERE FEEDING THE SMALL TRAILERS
  - EMPTY 2.5" CONDUITS FROM TRANSFORMERS PAD TO GAS PAD WALL

**BILL OF MATERIALS**

DESCRIPTION	QUANTITY	UNIT
REMOVE ASPHALT PAVEMENT	5240	SY
REMOVE ASPHALT WALKWAY	750	SY
REMOVE CONCRETE CURBS AND GUTTER	300	LF
REMOVE AC CURBS	400	LF
REMOVE CONCRETE BARRIERS	5	EA
REMOVE GUARD SHACK	1	EA
REMOVE 4" HIGH CHAIN LINK FENCING	400	LF
REMOVE WROUGHT IRON FENCING	640	LF

**LEGEND:**

TO BE DEMOLISHED



	PLANNING DEPT COMMENT RESPONSE 1	DATE	08/11/23
	REVIEWED FOR PLANNING DEPARTMENT APPROVAL	DATE	03/31/24

<b>PRELIMINARY NOT FOR CONSTRUCTION</b>	

**BW2 AND CUB2 - CIVIL  
GROUND LEVEL-1A-A, SECTORS C1-E3  
SUBSECTORS C11A-E34D  
PARTIAL SITE IMPROVEMENT PLAN - DEMO**

BWC-CV-1A-E34D.DWG	<b>C101</b>	1"=10'-0"
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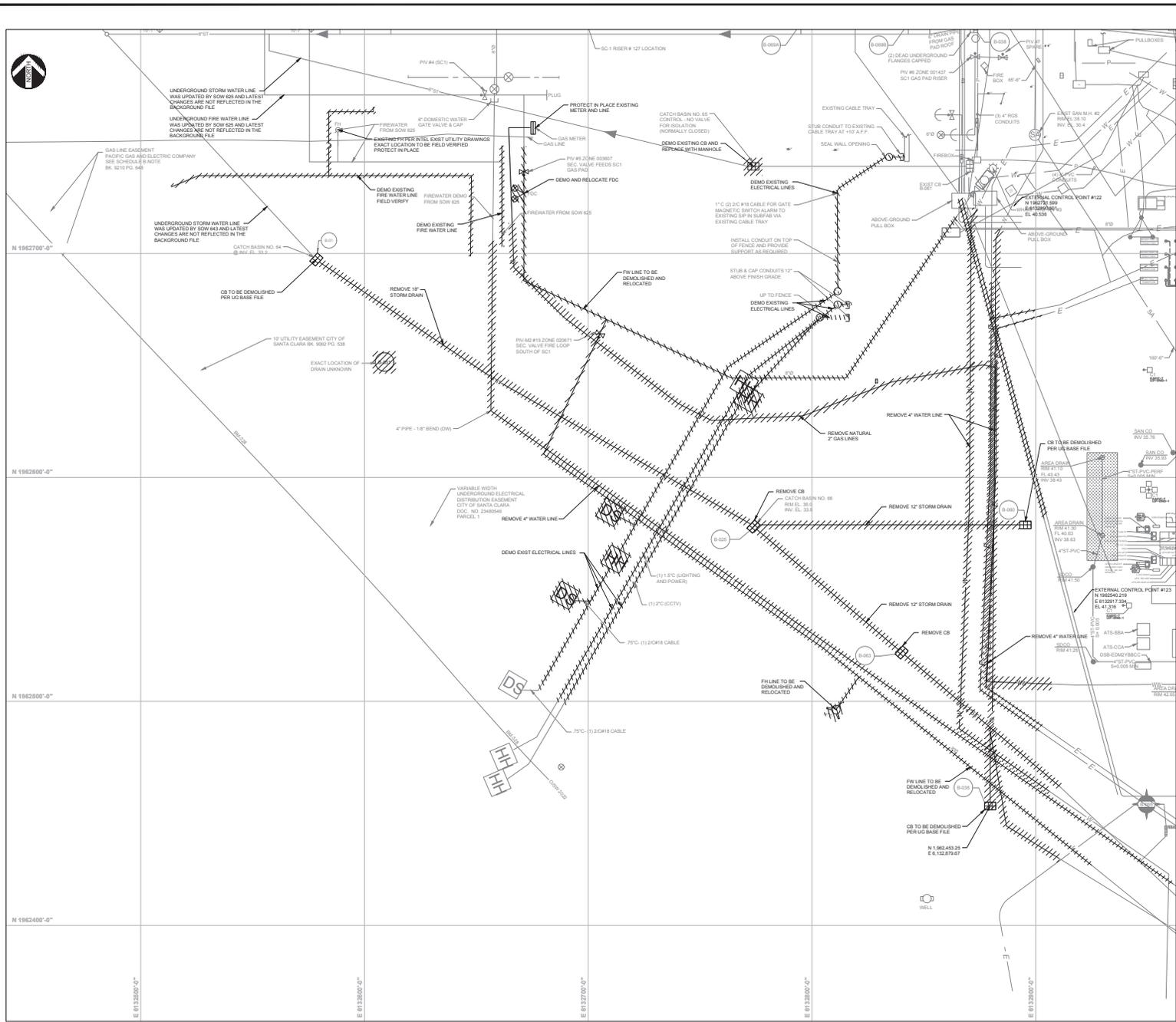
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A1	A2	A3	A4	A5
B1	B2	B3	B4	B5
C1	C2	C3	C4	C5
D1	D2	D3	D4	D5
E1	E2	E3	E4	E5

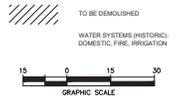
**BWC**  
KEY PLAN

**GENERAL NOTES**

1. THIS DRAWING ILLUSTRATES THE CURRENT UNDERGROUND PIPING WITHIN THE FACILITY AND IDENTIFIES PIPES THAT NEED TO BE DEMOLISHED OR TO CONFLICT WITH THE BUILDING'S FOOTPRINT.
2. THE WATER LINES DEPICTED ARE DERIVED FROM HISTORICAL DATA. THEY WILL BE VERIFIED ON-SITE USING GROUND PENETRATING RADAR (GPR) AND POT-HOLDING, AND ANY NECESSARY UPDATES WILL BE MADE DURING THE DETAILED DESIGN PACKAGE PHASE.



**LEGEND:**



PLANNING DEPT COMMENT RESPONSE 1	DATE	08/11/23
ISSUED FOR PLANNING DEPARTMENT APPROVAL	DATE	05/31/23

PRELIMINARY NOT FOR CONSTRUCTION	<b>FLUOR</b>
	<b>CADMS</b> <b>intel</b>

**BW2 AND CUB2 - CIVIL**  
**GROUND LEVEL-1AA, SECTORS C1-E3**  
**SECTORS C11A-E34D**  
**PARTIAL SITE PLAN - DEMO**

BWC-04-MA-C100-DWG **C102** 1"=10'-0"

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A1	A2	A3	A4	A5
B1	B2	B3	B4	B5
C1	C2	C3	C4	C5
D1	D2	D3	D4	D5
E2	E3	E4	E5	

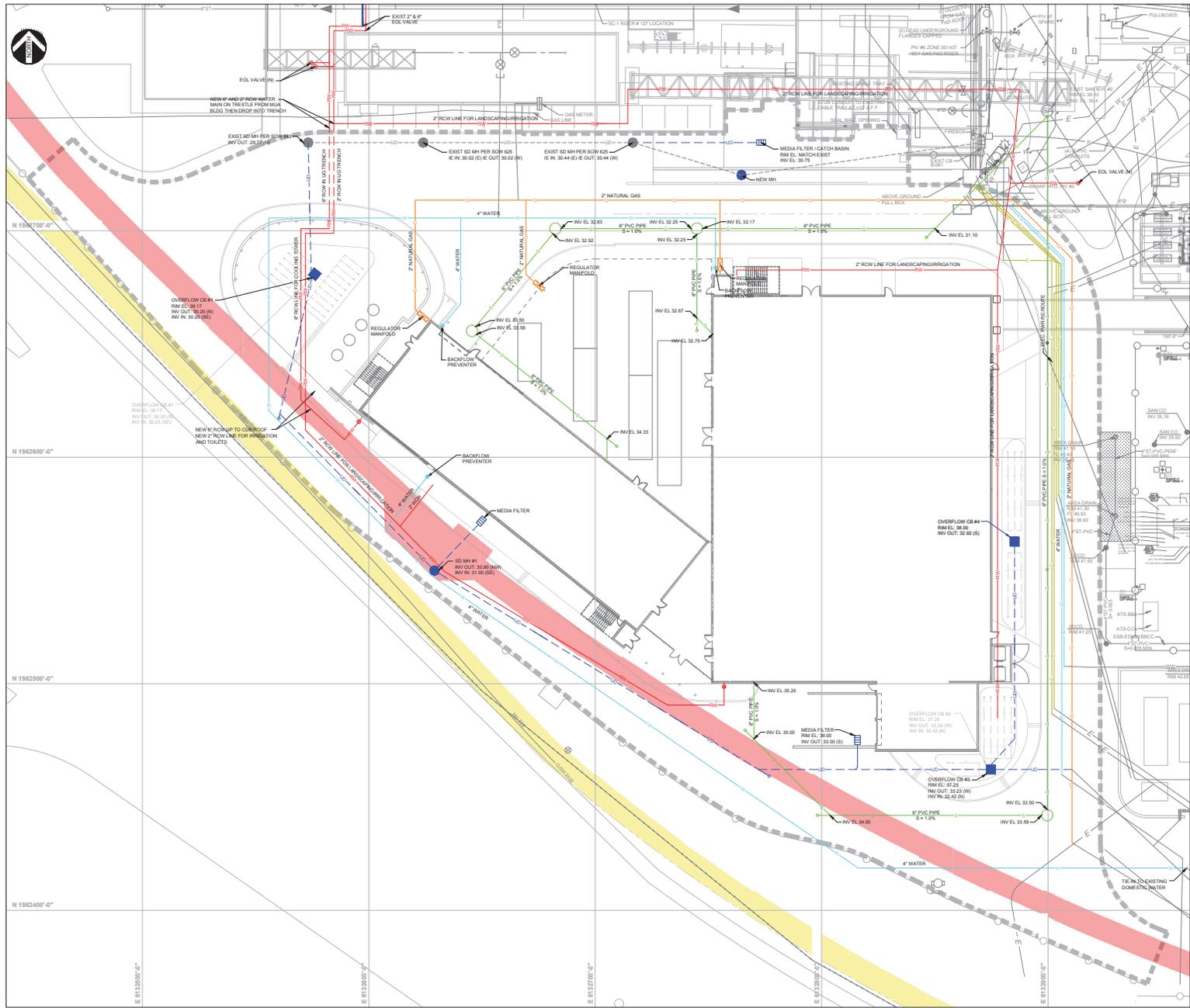
**BWC**  
**KEY PLAN**

- GENERAL NOTES**
1. ALL COORDINATES AND DIMENSIONS ARE IN FEET-INCHES, UNLESS NOTED OTHERWISE.
  2. STORM WATER SYSTEM IS PROPOSED TO CONVEY 100-YEAR STORM EVENT FLOW, AND IS CONNECTED TO EXISTING STORM LINE, SOUTH EAST OF THE MA BUILDING.
  3. ALL STORM LINES ARE TO BE SLOPED AT MINIMUM OF 0.5% SLOPE AND SANITARY SEWER LINES AT 1% SLOPE.
  4. PIPE MATERIALS FOR THE STORM AND SANITARY LINES ARE TO FOLLOW INTEL STANDARDS DIVISION 33 "UTILITIES", SECTION 33 AND AS NOTED BELOW.
    - STORM: GRAVITY STORM SEWER PIPE SHALL BE RUBBER GASKETED RENEFORCED CONCRETE PIPE (R/RCP), CORRUGATED METAL PIPE (CMP), PVC PIPE, POLYPROPYLENE OR HIGH-DENSITY POLYETHYLENE PIPE (AS SHOWN ON THE DRAWINGS).
    - SANITARY SEWER: CONCRETE, PVC OR DUCTILE IRON GRAVITY SEWER PIPE OF THE STRENGTH CLASSIFICATION AS HEREINAFTER SPECIFIED AND AS SHOWN ON THE DRAWINGS.
  5. FOR CLARITY, ALL UTILITY LINES ARE DEPICTED AS SOLID, UNLESS NOTED OTHERWISE.
  6. ALL SEPARATION REQUIREMENTS WILL COMPLY WITH CITY CODES.

**LEGEND:**

- ELECTRICAL EASEMENT
- UTILITY EASEMENT
- PROJECT BOUNDARY OF GROUND WORK
- CATCH BASIN WITH TRASH PROTECTION
- REGULATOR MANFOLD
- BACKFLOW PREVENTER
- EOL VALVE
- 2" NATURAL GAS
- 12" STORM DRAIN
- EXISTING STORM DRAIN
- 2" & 4" WATER SYSTEMS (HISTORIC)
- DOMESTIC, FIRE, IRRIGATION
- 6" SANITARY
- 2" & 6" RCW LINE
- ELECTRICAL LINE

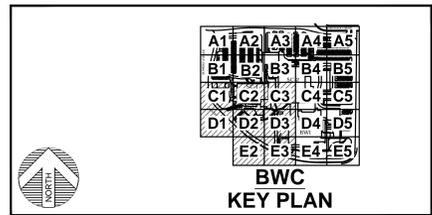
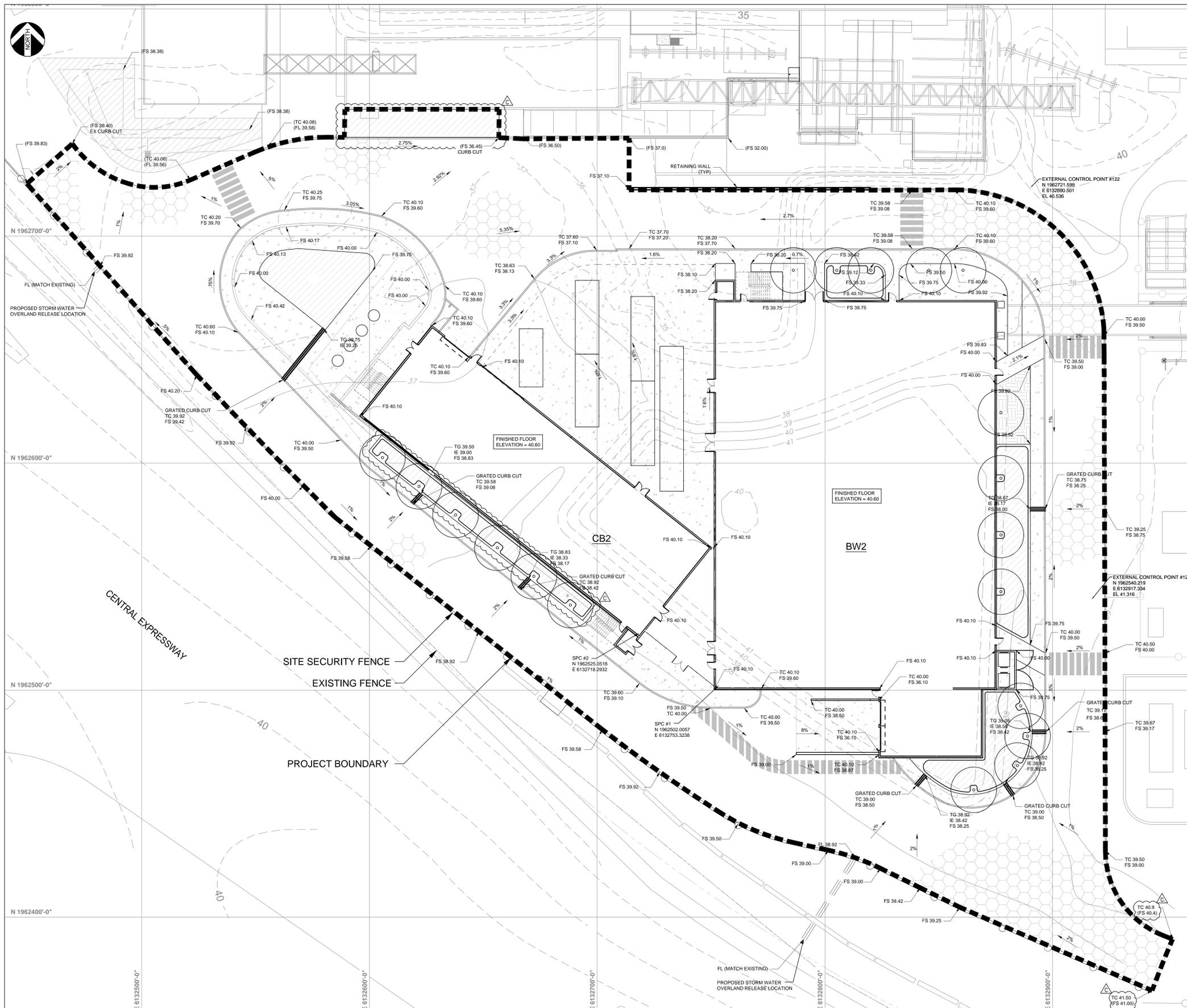
15 0 15 30  
GRAPHIC SCALE



PLANNING DEPT COMMENT RESPONSE 1	DATE	08/11/23
DESIGNED FOR PLANNING DEPARTMENT APPROVAL	DATE	03/31/24

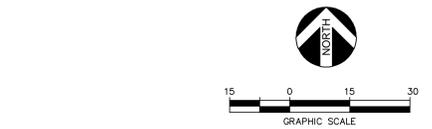
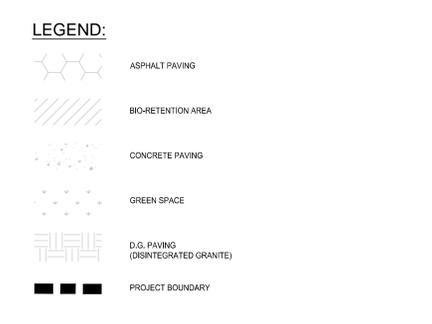
<b>PRELIMINARY NOT FOR CONSTRUCTION</b>	
<b>BW2 AND CUB2 - CIVIL GROUND LEVEL-1AA, SECTORS C1-E3 SUBSECTORS C11A-E34D PARTIAL SITE PLAN</b>	
BWC-OR-1AA-C1E3-DWG	<b>C103</b>

C:\Users\jgarcia\OneDrive\Documents\BWC-OR-1AA-C1E3-DWG.dwg (2024/08/11 10:52:25 AM) PLOT DATE: 08/11/23 10:52:25 AM



**GENERAL NOTES**

1. FOR BUILDINGS, REFERENCE FINISHED FLOOR ELEVATION 1' FF OF 0'-0" = ACTUAL FINISHED FLOOR ELEVATION + 40.60



PLANNING DEPT COMMENT RESPONSE 2	CU	10/03/25
PLANNING DEPT COMMENT RESPONSE 1	FLOOR	08/01/25
ISSUED FOR PLANNING DEPARTMENT APPROVAL	FLOOR	03/31/25
REV AND REVISION EDUCATION	APPROVED	DATE

**intel.** INTEL CORPORATION  
2200 MISSION COLLEGE BLVD.  
SANTA CLARA, CA 95054  
1-408-765-8060

**BW2 AND CB2 - CIVIL**  
**GROUND LEVEL-1AA, SECTORS C1-E3**  
**SUBSECTORS C11A-E34D**  
**PARTIAL TOPO AND GRADING PLAN**

Date: 10/7/2025  
Scale: SEE PLAN  
Drawn: CU  
Checked: JN  
Approved: JN  
Job No: 20221191

Drawing Number: **C-104**

FILE NAME: BWC-CC-1AA-C1E30.DWG  
SHEET NUMBER: BWC-CC-1AA-C1E30  
SCALE: 1" = 15'-0"

**PRELIMINARY**  
NOT FOR CONSTRUCTION  
DATE: 09/26/2025

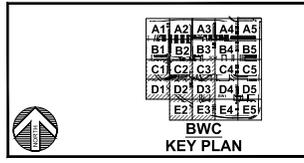
BRF ENGINEERS  
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SAN JOSE, CA 95128  
www.brf.com

**BRF**

**INTEL BW2 + CURB PROJECT**  
FILE NO: BWC-0012  
INTEL CORP 3065 BOWERS AVENUE, SANTA CLARA, CA 95054

Revision:  
No.  
Date  
By  
Checked  
Approved  
Job No

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**PRE CONSTRUCTION DEVELOPED AREAS WITHIN PROJECT BOUNDARY AREA**

IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	TOTAL AREA (SF)
66,405	36,239	102,644

**POST CONSTRUCTION DEVELOPED AREAS WITHIN PROJECT BOUNDARY AREA**

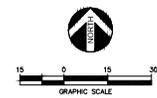
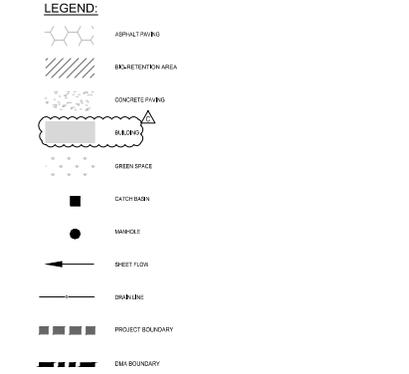
IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	TOTAL AREA (SF)
63,990	6,086	70,076

1. THE PERVIOUS AREA IS THE SUMMATION OF BOTH PERVIOUS AND BIORETENTION FOOTPRINT.

**DRAINAGE AREAS**

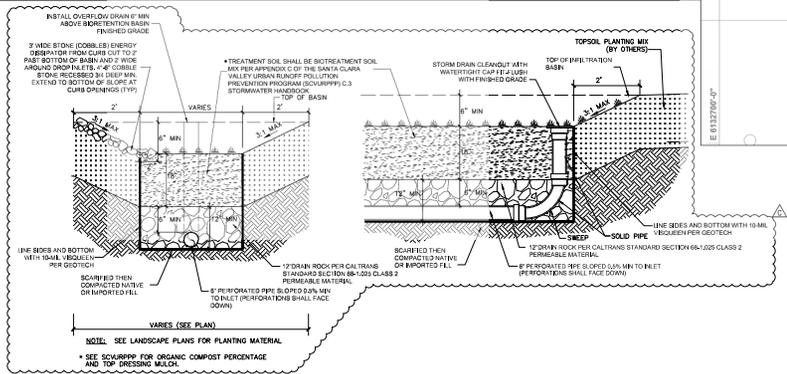
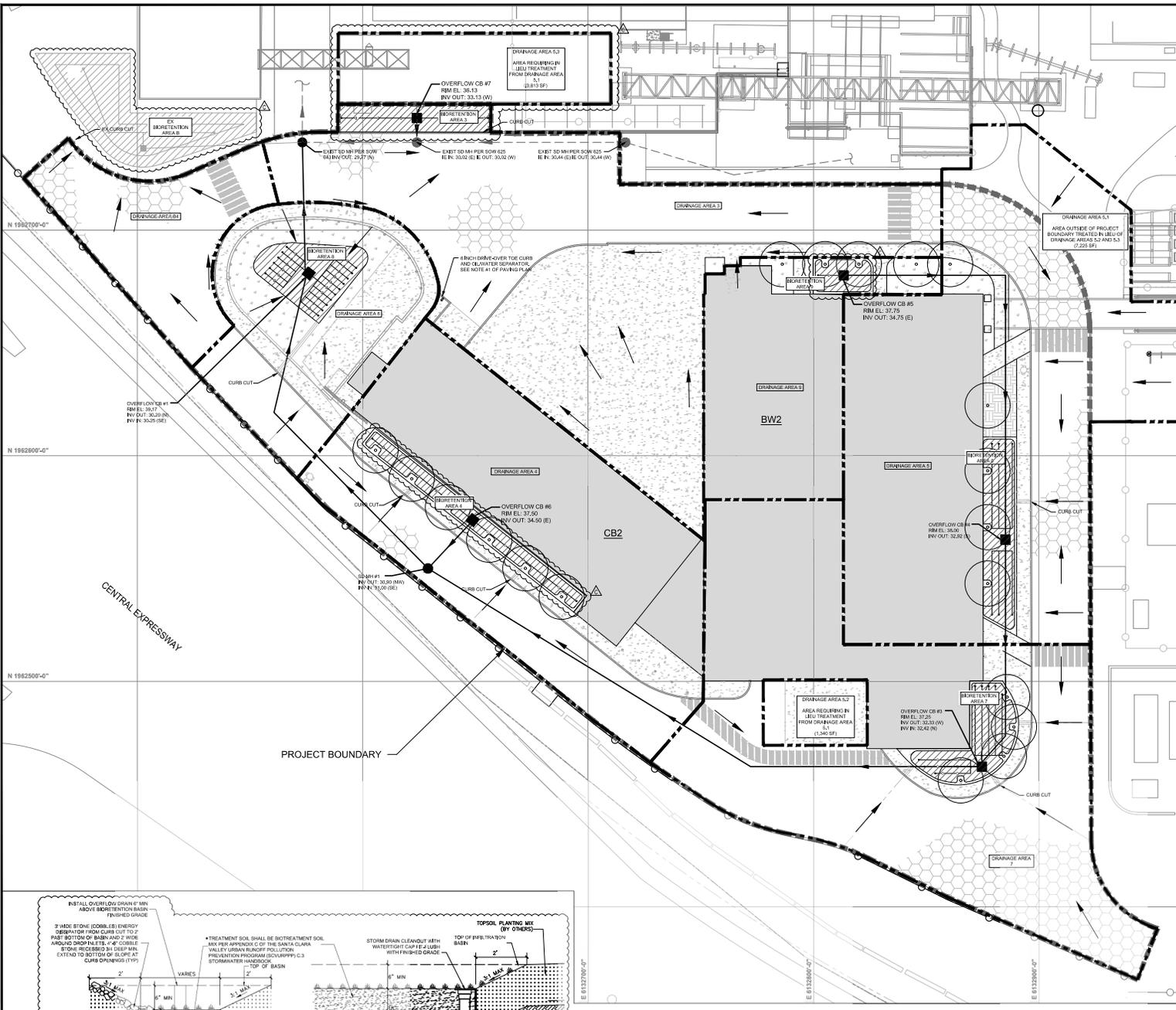
DRAINAGE AREA	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	BIORETENTION AREA* (SF)	TOTAL AREA (SF)
B4 (EXISTING AREA)	18,948	3,252	3,252	25,452
B4 (PROPOSED ADDITIONAL AREA)	5,145	-	-	5,145
3	21,590	880	880	23,350
4	16,782	786	786	18,354
5	12,810	1,038	1,038	14,886
S.1 (AREA TREATED OUTSIDE OF PROJECT BOUNDARY)	1,250	-	-	1,250
S.2 (IN LIEU AREA)	1,350	-	-	1,350
S.3 (IN LIEU AREA OUTSIDE OF PROJECT BOUNDARY)	3,810	-	-	3,810
7	20,740	-	894	21,634
8	8,430	1,890	1,890	12,210
9	8,330	885	291	9,506
TOTAL AREA (INCLUDES B4 EXISTING AREA, AREA S.1, AREA S.2)	93,960	9,036	6,086	109,082

2. SEE DRAWING C-100-000007 FOR EXISTING DRAINAGE AREAS FOR THE EXISTING BIOTRETENTION PREPARED FOR THE SOW 643 PROJECT.



- SHEET NOTES:**
- EXISTING SOIL TYPE IS FAT CLAY FROM SOILS REPORT DATED JULY 2019 PREPARED BY ENSCO INC.
  - GROUNDWATER WAS ENCOUNTERED 8.8' BELOW EXISTING GRADE IN SOILS REPORT DATED JULY 2019. THE SAND WAST QUADRANGLE 20000 SHOWS HISTORIC GROUNDWATER TABLES BETWEEN 8' AND 10' BELOW THE GROUND SURFACE PREPARED BY ENSCO INC.
  - POTENTIAL POLLUTANT SOURCE AREAS INCLUDE MECHANICAL EQUIPMENT, CHEMICAL STORAGE, AND PARKING LOTS.
  - PLANTING PALETTE TO BE DETERMINED BY APPROVED PLANT LIST FOR BIORETENTION AREAS FROM APPENDIX D OF THE SCVSRPP (L3) HANDBOOK.
  - THE FOLLOWING SOURCE CONTROL MEASURES MUST BE MET, REFER TO APPENDIX H OF THE SCVSRPP (L3) HANDBOOK FOR COMPLETE SOURCE CONTROL MEASURE REQUIREMENTS:
    - STRUCTURAL CONTROL MEASURE 1 - 11" SOLI DRAINING TO STORM DRAIN PIPES AND WATERWAY
    - STRUCTURAL CONTROL MEASURE 2 - PERMEABLE PAVEMENT APPLICATION
    - OPERATIONAL CONTROL MEASURE 1 - PARKING SIGNAGE AND PARKING LOTS
    - OPERATIONAL CONTROL MEASURE 2 - PRIVATE STREETS

- BIO RETENTION NOTES:**
- BIOTRETENTION SOIL SHALL MEET THE REGIONAL BIOTRETENTION SOIL SPECIFICATIONS PER THE BAY AREA STORMWATER MANAGEMENT ASSOCIATION (SWMASA) IN APPENDIX C.2 FROM THE SANTA CLARA VALLEY URBAN RUNOFF POLLUTION PREVENTION PROGRAM (SCVSRPP).
  - BIOTRETENTION SOIL MUST HAVE A MINIMUM INFILTRATION RATE OF AT LEAST 3 INCHES PER HOUR.
  - BIOTRETENTION SOIL MUST CONSIDER A MIXTURE OF FINE SAND AND COMPOST, MEASURED AS VOLUME BASED:
    - 80%-10% SAND
    - 20%-10% COMPOST
  - BIOTRETENTION SOIL SHALL SUPPORT VIGOROUS PLANT GROWTH.
  - BIOTRETENTION SOIL SAND SHALL BE FREE OF WOOD, WASTE, COATING SUCH AS GLASS STONE DUST, CARBONATE OR ANY OTHER RELEASABLE MATERIAL.
  - BIOTRETENTION SOIL COMPOST SHALL BE WELL DECOMPOSED, STABLE, WEED FREE ORGANIC MATTER SOURCE DERIVED FROM WASTE MATERIALS MEETING THE STANDARDS DEVELOPED BY THE US COMPOST COUNCIL, USCC.



**INTEL BW2-CUB2 PROJECT**  
 2200 MESSER COLLEGE BLVD., SANTA CLARA, CA 95054  
 INTEL CORP. 2000 MESSER COLLEGE BLVD., SANTA CLARA, CA 95054

**PRELIMINARY**

DATE: 10/23/2020  
 DRAWN BY: JAC  
 CHECKED BY: JAC  
 PROJECT NO: BWC-C-100-000007

Revision:  
 1. 10/23/2020  
 2. 10/23/2020  
 3. 10/23/2020

DATE: 10/23/2020  
 DRAWN BY: JAC  
 CHECKED BY: JAC  
 PROJECT NO: BWC-C-100-000007

Drawing Number: **C-105**

**intel.** INTEL CORPORATION  
 2200 MESSER COLLEGE BLVD.  
 SANTA CLARA, CA 95054  
 TEL: 408.759.8800

**BW2 AND CUB2 - CIVIL**  
**GROUND LEVEL-1AA, SECTORS C1-E3**  
**SUBSECTORS C11A-E34D**  
**STORMWATER MANAGEMENT PLAN**

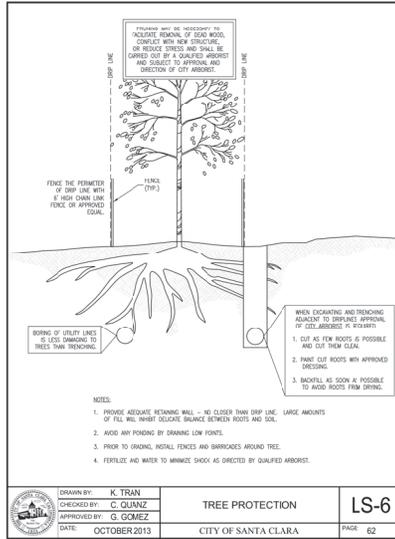
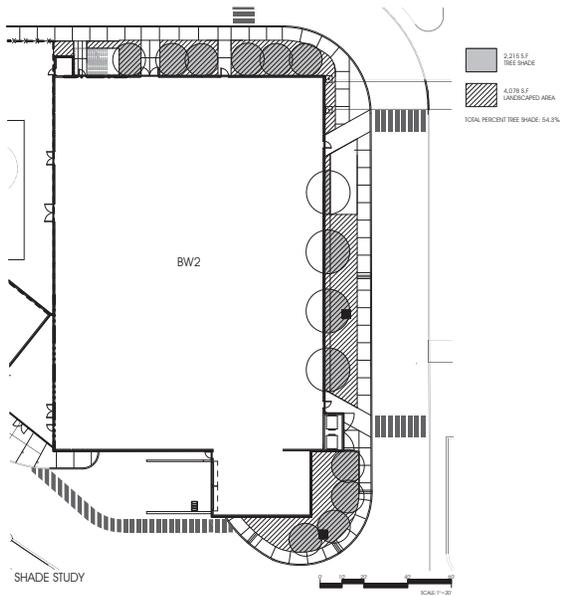
DATE: 10/23/2020  
 DRAWN BY: JAC  
 CHECKED BY: JAC  
 PROJECT NO: BWC-C-100-000007

DATE: 10/23/2020  
 DRAWN BY: JAC  
 CHECKED BY: JAC  
 PROJECT NO: BWC-C-100-000007









**CITY OF SANTA CLARA  
ARBORIST NOTES**

**I. GENERAL**

1. No cutting of any part of city trees, including roots, shall be done without securing approval and direct supervision from the city arborist or arborist employed by city (409-611-3000).
2. No cutting of any part of private trees, including roots, shall be done without direct supervision of an international society of arboriculture (ISA) certified arborist.
3. When construction occurs within the drip line of existing trees, contractor shall pile the soil on the side away from the tree. When this is not possible, place soil on plywood, tarp, or 4'-6" thick bed of mulch. This is to help prevent cutting into the soil surface when the backhoe or tractor blade refills the trench.
4. Refill open trenches quickly within hours of excavation when they occur within the drip line of existing trees. If this is not possible and the weather is hot, dry, or windy, contractor must keep root ends moist by covering them with wet burlap. If the temperature is 80°F or greater, the burlap must be inspected every hour and re-wet as necessary to maintain a constant cool moist condition. If the temperature is below 80°F, the burlap must be inspected every four hours and re-wet as necessary to maintain a constant cool moist condition. Small roots can dry out and die in 10-15 minutes. Larger roots can succumb in an hour or less under unfavorable weather conditions.
5. When roots 2" or larger are required to be cut, avoid big cuts near the roots and prune the roots with an industry-approved pruning tool. Hoops that are accidentally broken should be pruned two inches from the damaged end. Crushed or torn roots are more likely to allow decay to begin. Sharply cut roots produce a flush of new roots helping the tree to recover from its injury.
6. Contractor shall notify the city arborist or arborist employed by city 72 hours in advance of any work requiring digging around or within the drip line of existing trees.
7. A clear system of flagging must be provided around trees within 20' of the proposed grading. Contractor shall secure approval of such system from the city arborist or arborist employed by city.
8. Materials, equipment, temporary buildings, fuels, paints and other construction items shall not be placed within the drip line of existing trees.

**GENERAL NOTES**



**CITY OF SANTA CLARA  
ARBORIST NOTES**

9. Fence all trees to be retained to completely enclose the tree protection zone prior to demolition, grubbing or grading. Fencing shall be placed at the drip line of existing trees or, if possible 1.5 times the radius of the drip line out from the trunk of the tree. A warning sign shall be prominently displayed on each fence. The sign shall be a minimum of 8.5" x11" and clearly state "warning - tree protection zone this fence shall not be removed without approval from the city arborist/project arborist". Fences shall be 6-foot tall chain link or equivalent, as approved by the city arborist or arborist employed by city. Fences shall remain until all grading and construction work is completed. In addition, wrap all trees with straw waddle up to the first main branch, and then wrap snow fencing around the waddles all trees in the construction zone to protect them from bank damage caused by the work.
10. No trenching shall be done within the drip line of existing trees without the approval of the city arborist or arborist employed by city. Open trenching in the root zone of a public tree is prohibited except in cases where the trenching falls outside the drip line of the tree involved. Exceptions may be allowed if, in the opinion of the city arborist or arborist employed by city, the impact of trenching on the tree will be negligible.
11. Any cutting of existing roots of city trees shall be done with approved light equipment under the direct supervision of the city arborist or arborist employed by city. Any cutting of existing roots of private trees shall be done with approved equipment under the direct supervision of an ISA certified arborist.
12. Grading should not create drainage problems for trees by channeling water into them, or creating sunken areas.
13. All grading within the drip line of city trees shall be done with approved light equipment under the direct supervision of the city arborist or arborist employed by city. All grading within the drip line of private trees shall be done with approved equipment under the direct supervision of an ISA certified arborist. The original grade at the base of existing trees shall not be modified. If grade increases is necessary, dry wells should be used.
14. When trenching is allowed, the contractor must first cut roots with a vermeer root cutter prior to any trenching to avoid tagging or pulling of roots.
15. Trees that are determined to be removed by the city arborist or arborist employed by city due to an unforeseen circumstance during construction shall be replaced by the



**CITY OF SANTA CLARA  
ARBORIST NOTES**

- contractor. The city arborist or arborist employed by city shall determine the replacement species, size, quantity, and spacing.
14. Place 4"-6" thick mulch around all existing trees (out to their drip line) that are to be retained prior to any construction. This will help maintain moisture under the tree within the fencing zone.
  15. Bore pits are not allowed within the drip line of any tree.

**II. BORING**

Where there is insufficient space to bypass the drip line by trenching adjacent to all existing trees in excess of 6" DBH, the installation must be made by boring. The beginning and ending distance of the bore from the face of the tree in any direction is determined by the diameter of the tree as specified by the accompanying table.

When the tree diameter at 4 1/4 feet is:	Trenching will be replaced by boring at this minimum distance from the face of the tree in any direction:
0-2 inches	1 foot
3-4 inches	2 feet
6-9 inches	5 feet
10-14 inches	10 feet
15-19 inches	12 feet
over 19 inches	15 feet

Tree diameter	(minimum) depth of bore
9 inches or less	2.5 feet
10-14 inches	3.0 feet
15-19 inches	3.5 feet
20 inches or more	4.0 feet

**III. TREE PROTECTION**

1. Contractor shall tag and identify existing trees which are to remain within the project limits and on the public right-of-way prior to start of work. Protect all tagged trees at all times from damage by the work. Treatment of all minor damage to tagged trees shall be performed by an ISA certified arborist or other personnel approved by the city arborist or arborist employed by city. If a tagged tree is permanently



**CITY OF SANTA CLARA  
ARBORIST NOTES**

- disfigured or killed as a result of the work, contractor shall remove the tree, including its roots, from the site and replace each removed tree with an equal-sized tree. If such replacement is not possible, the contractor shall reimburse to the tree owner the amount listed in the table below. The city arborist or arborist employed by city shall be the sole judge of the condition of any tree. Contractor shall provide regular watering of existing landscaping within the construction area through the construction period.
2. Contractor shall pay the tree owner the value of existing trees to remain that died or were damaged because of the contractor's failure to provide adequate protection and maintenance. The payment amount shall be in accordance with the following schedule of values, using "tree caliper" method established in the most recent issue of the "guide for establishing values of trees and other plants", prepared by the council of tree and landscape architects.

7 inches	\$ 2,400
8 inches	\$ 3,400
9 inches	\$ 4,400
10 inches	\$ 5,200
11 inches	\$ 6,200
12 inches	\$ 7,200
13 inches	\$ 8,200
14 inches	\$ 9,200
15 inches	\$ 10,000
16 inches	\$ 11,000
17 inches	\$ 12,000
18 inches and over:	
Add for each caliper inch	\$ 1,200

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ENGINEER OF RECORD APPROVALS					
DATE	BY	DATE	BY	DATE	BY

ISSUED FOR PLANNING DEPT. APPROVAL	JR	08/01/2016
ISSUED FOR PLANNING DEPT. APPROVAL	JR	03/13/2017
DATE NO. REVISION	APPROVED BY	DATE

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

**FLUOR.**

**intel** INTEL CORPORATION  
2200 BOWERS AVENUE  
SANTA CLARA, CA 95050-1208

BWC - LANDSCAPE

SHADE STUDY AND NOTES  
COVER SHEET

DATE PLOTTED	BWC-LD-0001.DWG	DATE PLOTTED	
BY	WYNN	BY	
SCALE		SCALE	
			1"=20'

TREES



*Cercis canadensis*  
Eastern Redbud

*Pyrus calleryana* Kawakami!  
Evergreen Pear

DESIGN MATERIALS



Natural Concrete  
Light Topcoat Finish

Natural Concrete  
Medium Topcoat Finish

Natural Concrete  
Heavy Topcoat Finish

SHRUBS AND GROUND COVERS



*Argemone* Big Red  
Big Red Kangaroo Paw

*Bougainvillea* 'Raspberry Ice'  
Raspberry Ice Bougainvillea

*Bulbine frutescens* Halmak!  
Orange Stalked Bulbine

*Callistemon viminalis* Little John!  
Dwarf Bottlebrush

*Carex o.* 'Evergold'  
Evergold Japanese Sedge

*Echeveria* 'Afterglow'  
Afterglow Echeveria

*Grevillea lanigera* 'Coastal Gem'  
Coastal Gem Grevillea



*Lantana* 'New Gold'  
New Gold Lantana

*Lavandula alba* Meero!  
Meero Lavender

*Lomandra* Breeze  
Dwarf Mat Rush

*Pennisetum setosum* 'Tuborum'  
Purple Fountain Grass

*Rhaphiolepis indica*  
Indian Hawthorne

*Rosa* 'Amber Flower Carpet'  
Amber Flower Carpet Rose

BIOSWALE PLANTINGS



*Salvia greggii* 'Furman's Red'  
Furman's Red Autumn Sage

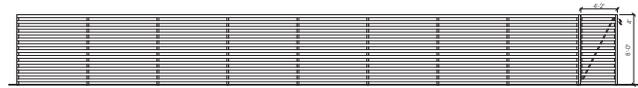
*Salvia leucantha*  
Mexican Bush Sage

*Cistus x purpureus*  
Orchid Rockrose

*Deschampsia c.* 'Halciformis'  
Pacific Hairgrass

*Juncus patens*  
California Grey Rush

*Muhlenbergia rigens*  
Deer Grass



DECORATIVE FENCING

- HEIGHT 8'-0" W/4" METAL SLATS & 4" SPACING PAINTED SILVERSMITH 399D0502FP TO MATCH BUILDING.
- 2.5" X 2.5" METAL POSTS @ 8'-0 O.C

GENERAL NOTES

ENGINEER OF RECORD APPROVALS			
DATE	BY	DATE	BY
01/12/21	JR	01/12/21	JR
01/12/21	JR	01/12/21	JR

ISSUED FOR PLANNING DEPT. APPROVAL	DATE	BY
ISSUED FOR PLANNING DEPT. APPROVAL	01/12/21	JR

PRELIMINARY NOT FOR CONSTRUCTION	<b>FLUOR.</b>	

INTEL CORPORATION	
3055 BOWERS AVENUE SANTA CLARA, CA 95051-4128	

BWC - LANDSCAPE	
LANDSCAPE IMAGERY COVER SHEET	

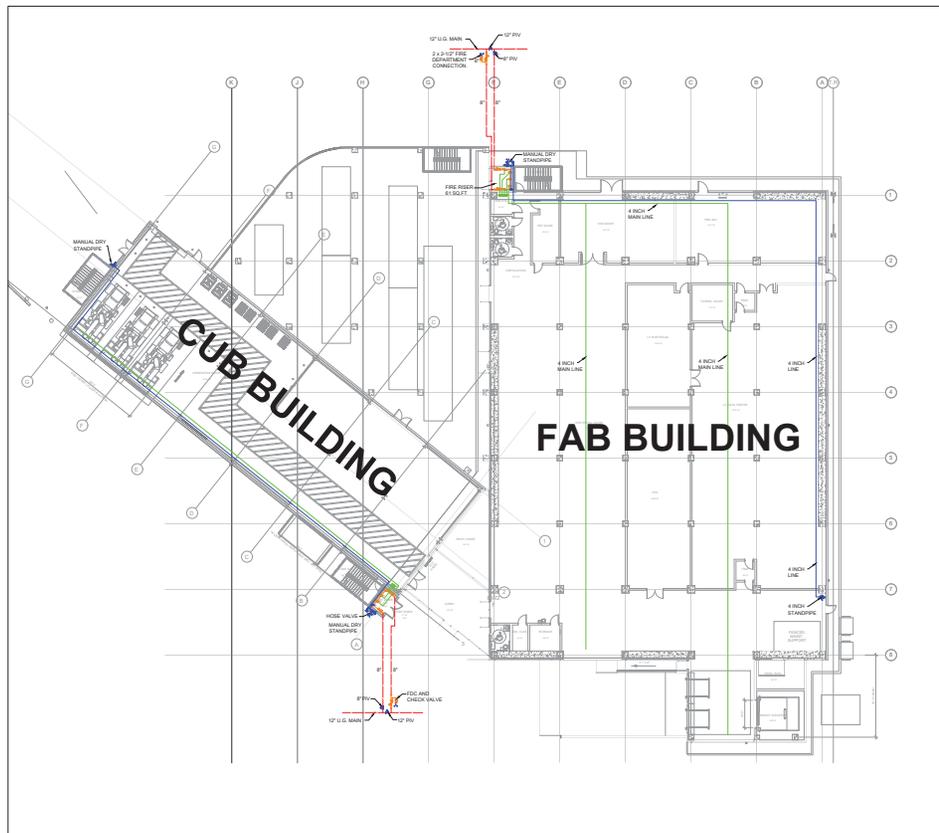
DATE PLOTTED	DATE	SCALE	PLotted BY
01/12/21	01/12/21	AS SHOWN	JR

### FIRE PROTECTION SYMBOLS

-  UNDERGROUND FIRE WATER LINE
-  SPRINKLER SYSTEM MAIN/HEADER
-  FIRE PROTECTION SYSTEM (SPRINKLER SYSTEM)
-  STANDPIPE
-  POST INDICATOR GATE VALVE WITH SUPERVISORY SWITCH
-  INDICATING BUTTERFLY VALVE WITH SUPERVISORY SWITCH
-  CHECK VALVE
-  WET SPRINKLER SYSTEM RISER
-  VERTICAL RISER
-  MANUAL DRY STANDPIPE
-  CLASS I HOSE VALVE
-  RELIEF VALVE
-  FLOW SWITCH (WIRED TO FACP)
-  PRESSURE GAUGE
-  SITE GLASS
-  FIRE DEPARTMENT CONNECTION
-  DRAIN VALVE

### FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/SF)	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (SQ FT)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
GENERAL PURPOSE (OFFICE BUILDING, MECHANICAL ROOM, CAFETERIAS, OTHER AREAS SUPPORTING OFFICE-USE AREAS)	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD OR QR	ORDINARY
TEST & ASSEMBLY	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD OR QR	ORDINARY
DATA CENTERS	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	INTERMEDIATE
SORT	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD OR QR	ORDINARY
<b>FAB BUILDING</b>								
BASEMENT/UTILITY LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	ORDINARY
SUBFAB LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	LITHOGRAPHY = 8 FT X 8 FT NON LITHO = 8 FT X 12 FT	QR	ORDINARY
FAB LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	100 SPRINKLERS ADJACENT TO STB/UTB = 8 FT X 8 FT	QR	ORDINARY
INTERSTITIAL LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	ORDINARY
FAN DECK LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	ORDINARY
<b>CUB BUILDING</b>								
CUB LEVEL 1, GENERATOR ROOM	EXTRA HAZARD (GROUP 1)		WET PIPE	0.3	2500	100	STANDARD	INTERMEDIATE
CUB LEVEL 2, ELECTRICAL ROOM	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD	INTERMEDIATE
CUB LEVEL 3	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD	INTERMEDIATE



### GENERAL NOTES

1. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE FIRE PROTECTION SYSTEM THROUGHOUT THE ENTIRE BUILDING. DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
  - A. CALIFORNIA BUILDING CODE, 2022 EDITION, AS ADOPTED AND AMENDED BY THE CITY OF SANTA CLARA, CALIFORNIA
  - B. CALIFORNIA FIRE CODE, 2022 EDITION, AS ADOPTED AND AMENDED BY THE CITY OF SANTA CLARA, CALIFORNIA
  - C. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
  - D. NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2019 EDITION
  - E. NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2016 EDITION
  - F. SECTION 21.00.30.00, FIRE PROTECTION SYSTEM
  - G. STANDARD 0222-L, WATER SUPPLY AND DISTRIBUTION FOR FIRE PROTECTION SYSTEMS
  - H. STANDARD 1220-L, FIRE PROTECTION SYSTEMS FOR BUILDINGS
2. WORK PERTINENT TO THE FIRE SPRINKLER SYSTEM SHALL BE DONE BY A QUALIFIED, COMPETENT FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION CONTRACTOR WHO CAN FURNISH A LIST OF SATISFACTORY INSTALLERS OF THIS TYPE. THE SUBCONTRACTOR SHALL HOLD ALL CURRENT LICENSES REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
3. MATERIALS, PIPE SIZES, AND INSTALLATION OF UNDERGROUND PIPE SYSTEMS MUST COMPLY WITH NFPA 24, STANDARD 0222-L, AND LOCAL CODE REQUIREMENTS.
4. DESIGN, MATERIALS, PIPING SYSTEM, AND INSTALLATION OF SPRINKLER SYSTEMS SHALL COMPLY WITH NFPA 13, SECTION 21.00.30.00, AND LOCAL CODE REQUIREMENTS.
5. FIRE SPRINKLER SYSTEM COMPONENTS (SPRINKLERS, VALVES, FLOW SWITCH, ...) SHALL BE LISTED AND FM APPROVED FOR FIRE PROTECTION SYSTEMS. WHEN A SPECIFIED ITEM HAS EITHER AN FM APPROVAL OR A UL LISTING, BUT NOT BOTH, THE MATERIAL OR EQUIPMENT WITH THE FM APPROVAL SHALL BE FURNISHED.
6. REBUILDING AREAS, INCLUDING ELECTRICAL, COMPUTER ROOMS, AND CANOPIES, SHALL BE FULLY PROTECTED BY FIRE SPRINKLERS. THIS INCLUDES ALL SPACES BELOW SUSPENDED CEILING AND ABOVE SUSPENDED CEILING WHERE COMBUSTIBLES ARE OR ARE INTENDED TO BE LOCATED.
7. EACH RISER ROOM SHALL HAVE TWO (2) INDEPENDENT LEAD-IN. LEAD-INS ARE REQUIRED TO HAVE POST INDICATOR VALVES (PIV) TO ISOLATE EACH RISER. LOCATE VALVES 40 FEET FROM THE BUILDING. PIVS ARE REQUIRED TO BE MONITORED BY THE BUILDING'S FIRE ALARM PANEL.
8. FIRE DEPARTMENT CONNECTIONS (FDCS) MUST COMPLY WITH NFPA 24, STANDARD 0222-L, AND LOCAL CODE REQUIREMENTS. FDCS ARE POSITIONED AWAY FROM POTENTIAL HAZARDS. IT MUST BE ACCESSIBLE TO A FIRE TRUCK AND WITHIN 50 FEET OF A PUBLIC FIRE HYDRANT. FDCS ARE 3/4-INCH WITH TWO 2 1/2-INCH INLET CONNECTIONS, UNLESS OTHERWISE DIRECTED BY THE AIA/OR THE SITE FIRE PROTECTION SYSTEM OWNER. FDCS SHOULD BE CLEARLY MARKED AND LABELED.
9. STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS I MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
10. FAB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED TO MEET NFPA 13B, STANDARD 1220-L, SECTION 71-00-30-00, AND LOCAL CODE REQUIREMENTS. THE SPRINKLER SYSTEM IS CLASSIFIED AS ORDINARY HAZARD GROUP 2, WITH A DESIGN DENSITY OF 0.20-GPM/SF OVER A 3,000 SF REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1), AND STANDARD 1220-L, APPENDIX A). THE WATER FLOWRATE AT THE BASE OF THE RISER IS 600-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2, AND STANDARD 1220-L), TOTALING 1,100-GPM FOR A DURATION OF 60-90 MINUTES.
11. THE CUB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED IN COMPLIANCE WITH NFPA 13, NFPA 31B, STANDARD 1220-L, SECTION 21.00.30.00, AND LOCAL CODE REQUIREMENTS. THE SYSTEM IS BASED ON EXTRA HAZARD GROUP 1, MAINLY DUE TO THE DIESEL-DRIVEN GENERATORS. THE SPRINKLER DESIGN DENSITY IS 0.30-GPM/SF OVER A 2,500 SF REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1). THE WATER FLOWRATE AT THE BASE OF THE RISER IS 700-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2), TOTALING 1,200-GPM FOR A DURATION OF 90-120 MINUTES.
12. PER STANDARD 1228-782 FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SENSOR ROOMS, FIBER AND TELEPHONE COMMUNICATION ROOMS, SECTION 3.1-B-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SENSOR/TELECOM ROOMS.

#### ENGINEER OF RECORD APPROVALS

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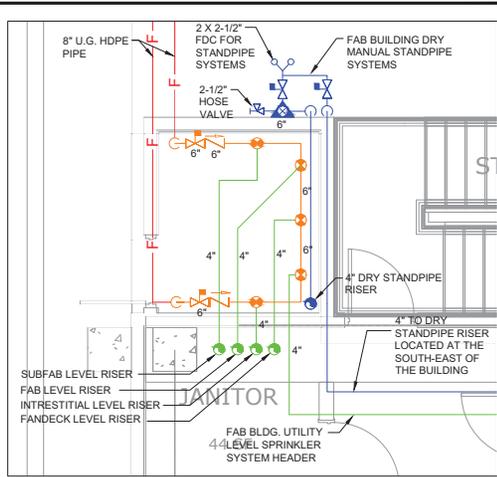
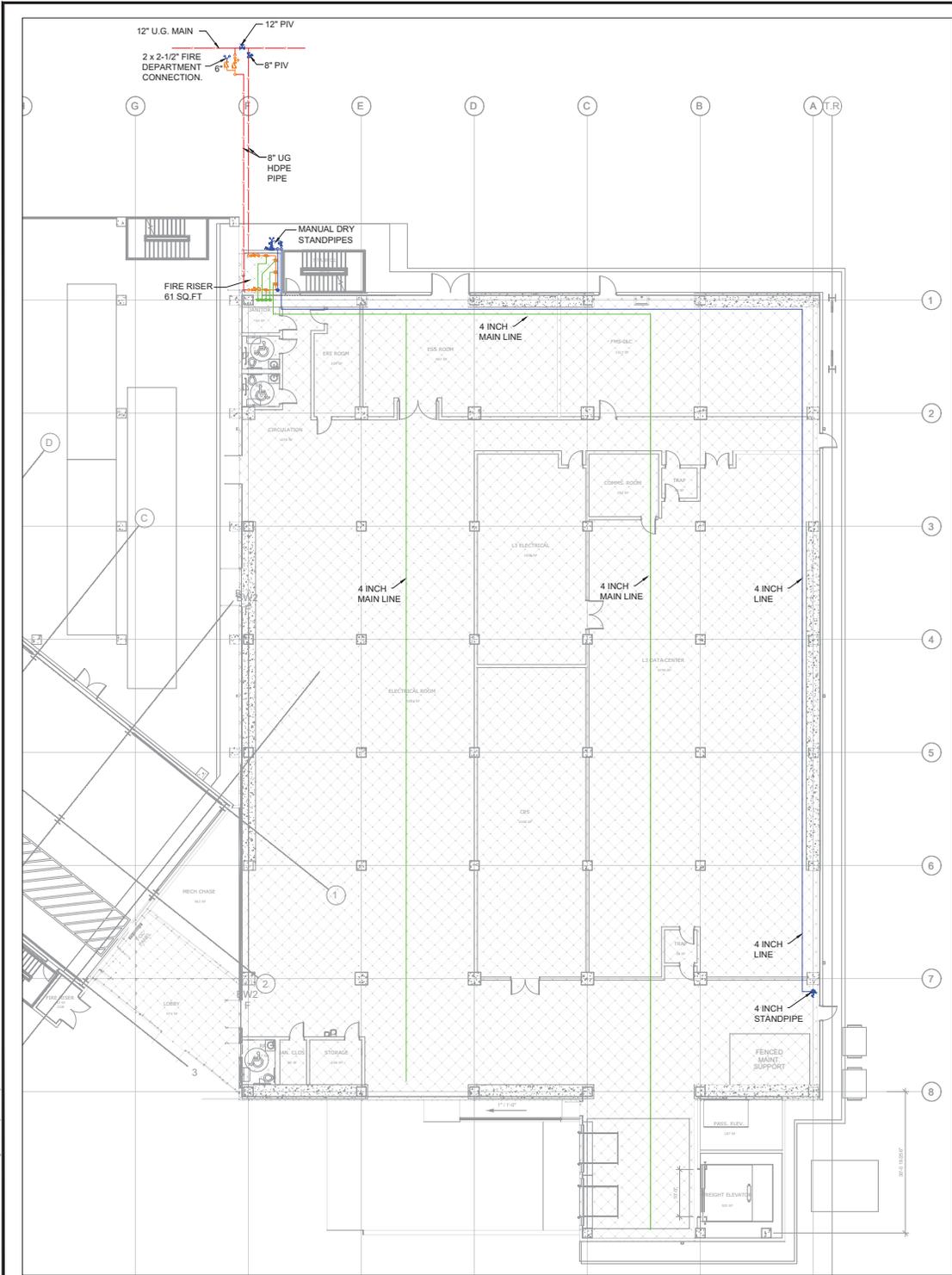
PLANNING DEPARTMENT COMMENT RESPONSE 1

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NOT FOR  
CONSTRUCTION

**FLUOR**

**intel**

**BW2 - FIRE PROTECTION  
FIRE PROTECTION SYSTEM  
GENERAL NOTES**



2 FIRE PROTECTION PLAN, FAB BUILDING FIRE RISER  
1/2" = 1'-0"

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

BUILDING OR AREA	FAB BUILDING, UTILITY LEVEL
HAZARD CLASSIFICATION	ORDINARY HAZARD (GROUP 2)
MARK	
SYSTEM TYPE	WET PIPE
DENSITY (GPM/SF)	0.2
REMOTE AREA (SF)	3000
MAXIMUM HEAD COVERAGE (SQ. FT)	130
SPRINKLER HEAD TYPE	QR
TEMP RATING (°F)	ORDINARY

GENERAL NOTES

- SEE DRAWING BW2-FP-AAA-A0000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-L AND 0222-L, AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPAs 13, NFPAs 14, NFPAs 1220-L AND 0222-L, AND SECTION 21-00-30-00.
- FOR STANDARD 1228-782 "THE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, AND TELEPHONE COMMUNICATION ROOMS" SECTION 3.1-9-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS I MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- FAB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED TO MEET NFPAs 13, NFPAs 14, STANDARD 1220-L, SECTION 21-00-30-00 AND LOCAL CODE REQUIREMENTS. THE SPRINKLER SYSTEM IS CLASSIFIED AS ORDINARY HAZARD GROUP 2, WITH A DESIGN DENSITY OF 0.20-GPM/FT<sup>2</sup> OVER A 3,000 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1) AND STANDARD 1220-L, APPENDIX A). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 600-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2, AND STANDARD 1220-L), TOTALING 1,100-GPM FOR A DURATION OF 60-90 MINUTES.

ENGINEER OF RECORD APPROVALS			
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PLANNING DEPARTMENT COMMENT RESPONSE 1

PRELIMINARY NOT FOR CONSTRUCTION

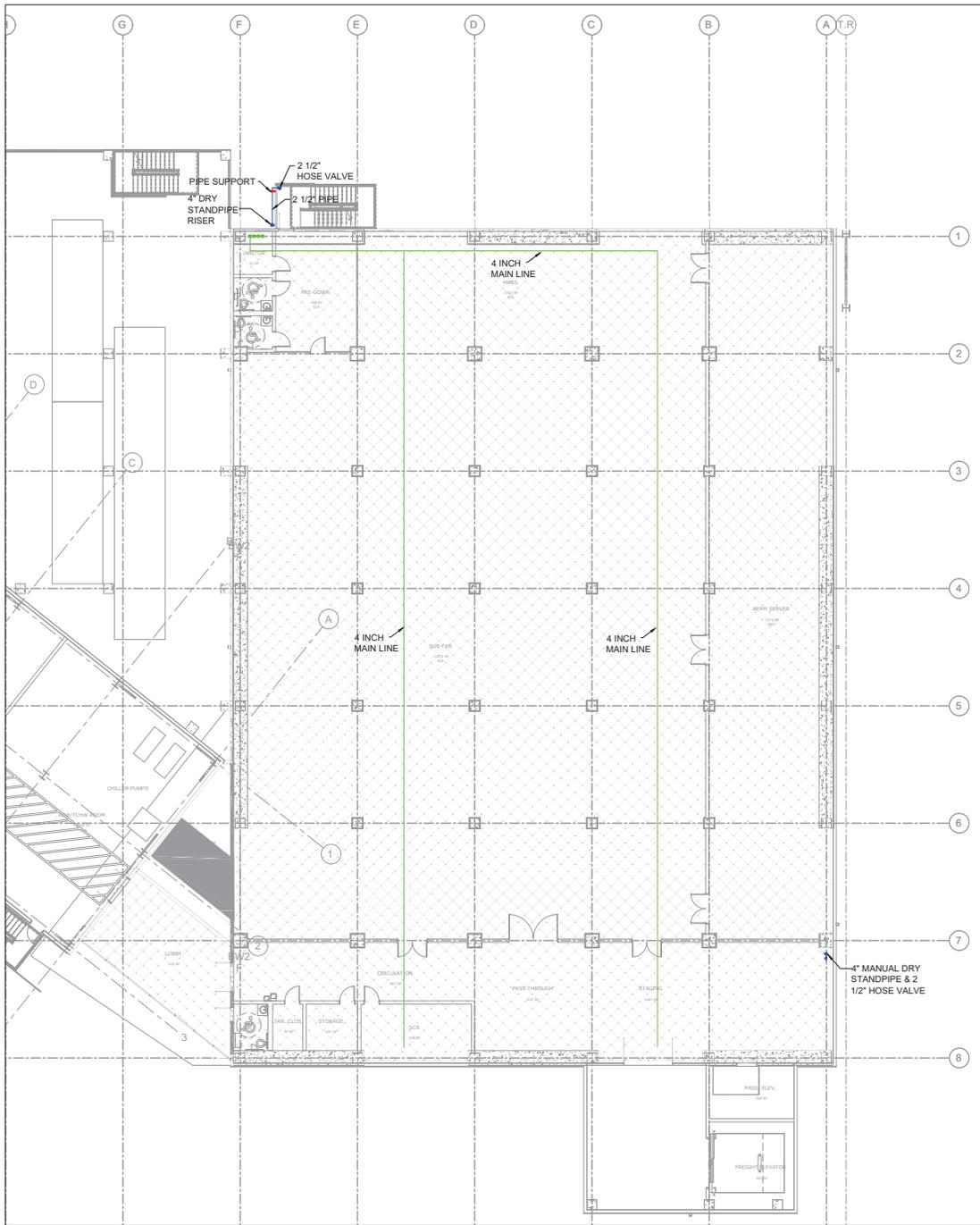
**FLUOR**

**intel** INTEL CORPORATION 3000 BOWEN AVENUE SANTA CLARA, CA 95052-0108

BW2 - FIRE PROTECTION UTILITY LEVEL-1YA

FIRE PROTECTION PLAN

1 FIRE PROTECTION PLAN, FAB BUILDING- UTILITY LEVEL  
1/8" = 1'-0"



1 FIRE PROTECTION PLAN, FAB BUILDING- SUBFAB LEVEL  
1/8" = 1'-0"

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/SF)	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (SQ.FT.)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
SUBFAB LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	LITHOGRAPHY = 8 FT X 8 FT NON LITHO = 8 FT X 12 FT	QR	ORDINARY

GENERAL NOTES

- SEE DRAWING BW2-FP-AAA-A0000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-L AND 0222-L AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA 13, NFPA 316, AND FM GLOBAL DATA SHEETS.
- PER STANDARDS 1228-782 FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS\* SECTION 3.1-8-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS 1, MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- FAB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED TO MEET NFPA13, NFPA 316, STANDARD 1220-L, SECTION 21-00-30-00 AND LOCAL CODE REQUIREMENTS. THE SPRINKLER SYSTEM IS CLASSIFIED AS ORDINARY HAZARD GROUP 2, WITH A DESIGN DENSITY OF 0.20-GPM/SF OVER A 3,000 SF REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1; AND STANDARD 1220-L, APPENDIX A). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 600-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2; AND STANDARD 1220-L), TOTALING 1,100-GPM FOR A DURATION OF 60-90 MINUTES.

ENGINEER OF RECORD APPROVALS			
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	06/24/25	06/24/25	06/24/25

PLANNING DEPARTMENT COMMENT RESPONSE 1	MODS	06/01/25

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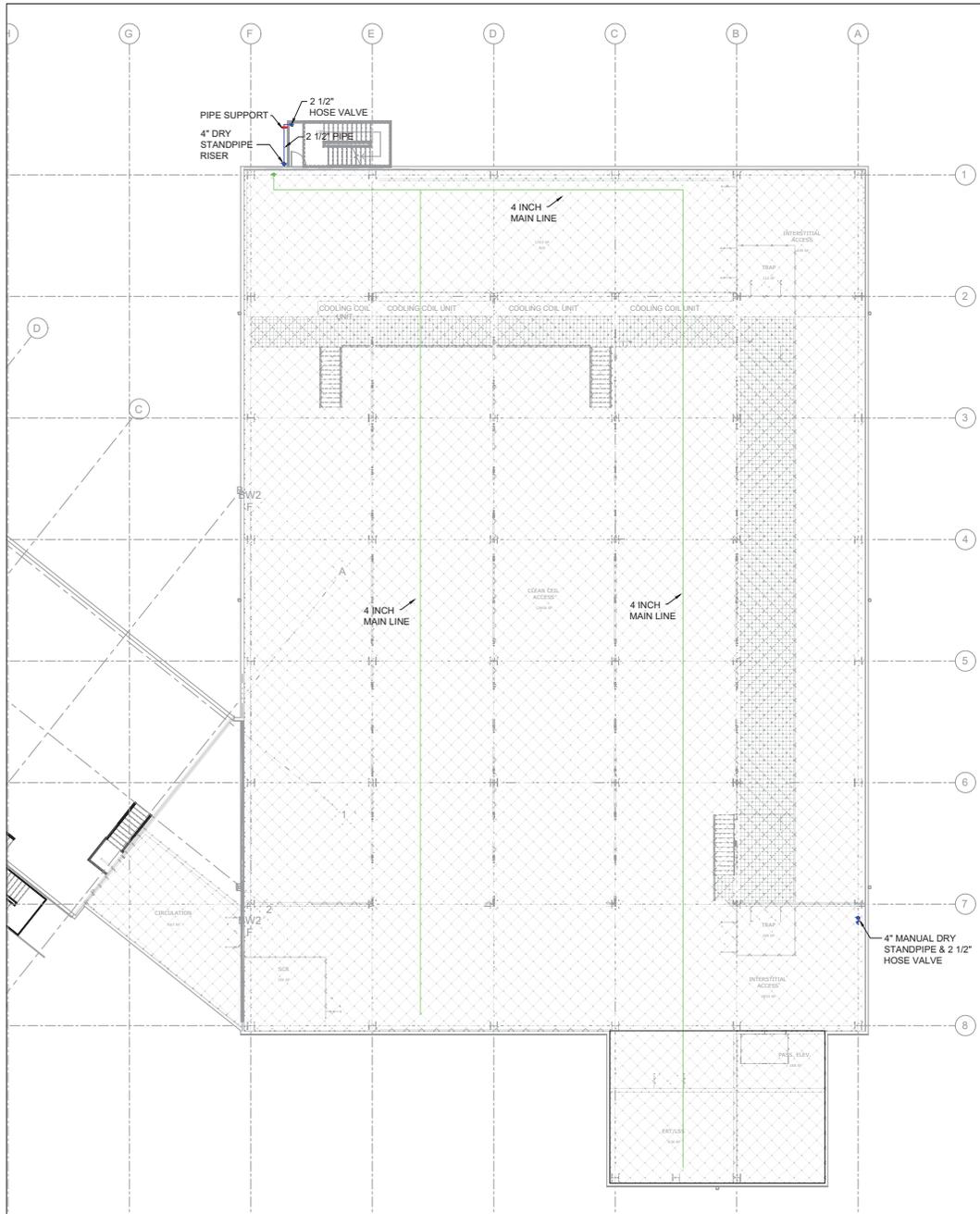
**FLUOR**

**intel** INTEL CORPORATION  
3500 AVENUE LEASE  
SANTA CLARA, CA 95050-8125

BW2 - FIRE PROTECTION  
SUBFAB LEVEL

FIRE PROTECTION PLAN

BW2-FP-25A-A0000.DWG	F-3	18" x 11"
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**GENERAL NOTES**

- SEE DRAWING BW2-FP-AAA-A000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-1 AND 0222-1, AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA 13, NFPA 14, AND FM GLOBAL DATA SHEETS.
- FOR STANDARD 1228-782 "FIRE PROTECTION GUIDELINES FOR COMPUTER, DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS" SECTION 3.1-8-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER, DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS I, MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- FAB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED TO MEET NFPA13, NFPA 318, STANDARD 1220-1, SECTION 21-00-30-00 AND LOCAL CODE REQUIREMENTS. THE SPRINKLER SYSTEM IS CLASSIFIED AS ORDINARY HAZARD GROUP 2, WITH A DESIGN DENSITY OF 0.20-GPM/FT<sup>2</sup> OVER A 3,000 FT<sup>2</sup> REMOTE AREA OF SPRINKLER ORIENTATION (NFPA 13, FIGURE 16.2.3.1.1) AND STANDARD 1220-1, APPENDIX A3. THE WATER FLOW RATE AT THE BASE OF THE HOSE IS 600-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 16.2.3.1.2, AND STANDARD 1220-1), TOTALING 1,100-GPM FOR A DURATION OF 60-90 MINUTES.

ENGINEER OF RECORD APPROVALS			
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	02/24/20	02/24/20	02/24/20

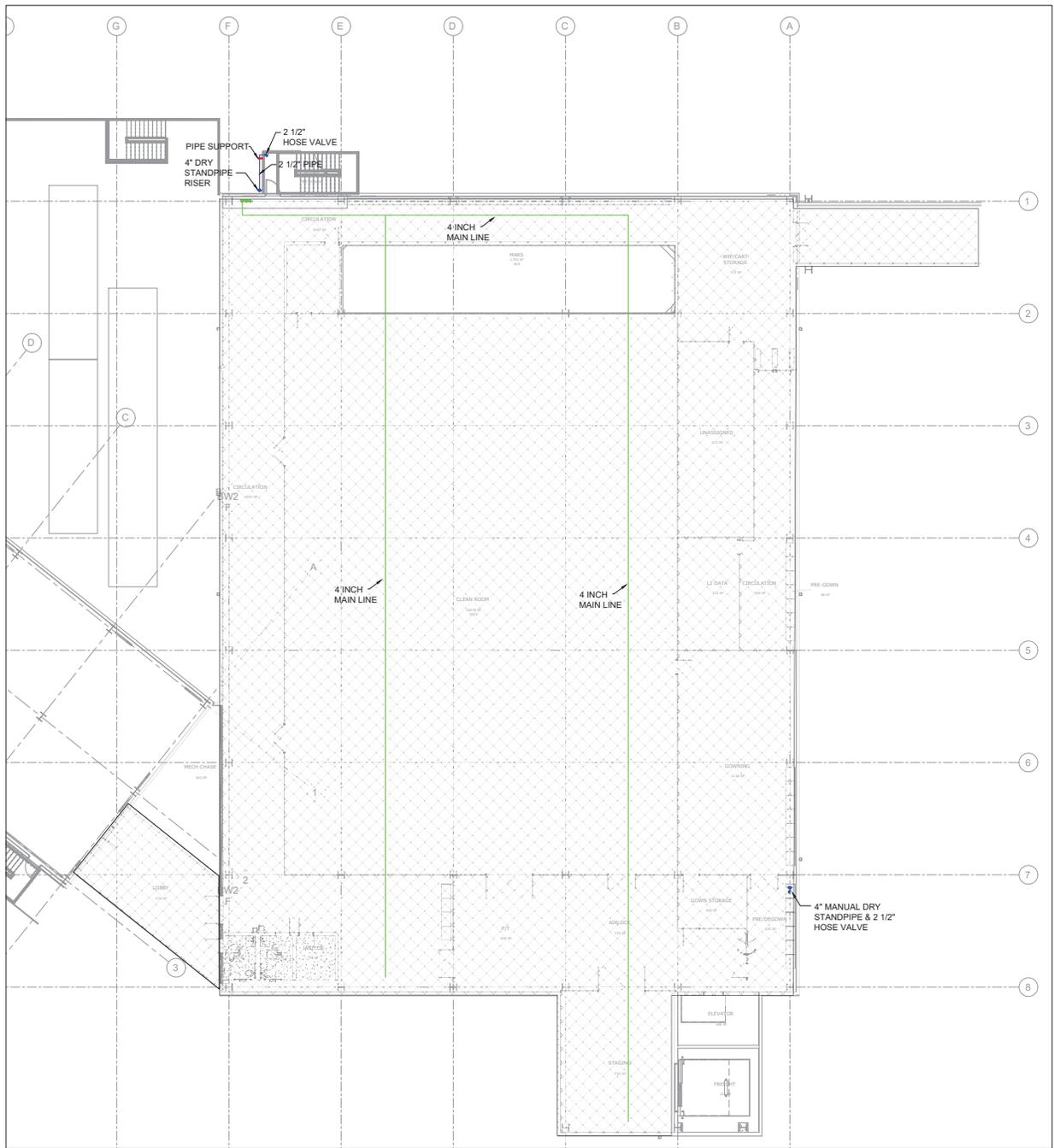
PLANNING DEPARTMENT COMMENT RESPONSE 1		NO	DR

PRELIMINARY NOT FOR CONSTRUCTION	<b>FLUOR</b>
	<b>intel</b> INTEL CORPORATION 3052 BOWERS AVENUE SANTA CLARA, CA 95052-6126
BW2 - FIRE PROTECTION FAN DECK LEVEL	
FIRE PROTECTION PLAN	
BW2-FP-3DA-A000.dwg	F4
	1/8" = 1'-0"

**1 FIRE PROTECTION PLAN, FAB BUILDING - FAN DECK LEVEL, 3DA**  
1/8" = 1'-0"

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA								
BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/FT <sup>2</sup> )	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (00 FT)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
FAN DECK LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	ORDINARY

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**GENERAL NOTES**

1. SEE DRAWING BWD-FP-AAA-A0000 FOR GENERAL NOTES AND LEGENDS.
2. FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
3. SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-L AND 0222-L AND SECTION 21-00-30-00.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA 13A, NFPA 31A, AND FM GLOBAL DATA SHEETS.
5. PER STANDARD 1220-FIRE "FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS" SECTION 3.1-B-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
6. STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS 1 MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
7. FAB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED TO MEET NFPA13, NFPA 31A, STANDARD 1220-L, SECTION 21-00-30-00 AND LOCAL CODE REQUIREMENTS. THE SPRINKLER SYSTEM IS CLASSIFIED AS ORDINARY HAZARD GROUP 2, WITH A DESIGN DENSITY OF 0.20-GPM/FT<sup>2</sup> OVER A 3,000 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1; AND STANDARD 1220-L, APPENDIX A). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 600-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2, AND STANDARD 1220-L), TOTALING 1,100-GPM FOR A DURATION OF 60-90 MINUTES.

ENGINEER OF RECORD APPROVALS			
FLUOR	DATE	BY	FOR

PLANNING DEPARTMENT COMMENT RESPONSE 1 | MODS | 08/01/2025

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CONSTRUCTION



INTEL CORPORATION  
300 BOWERS AVENUE  
SANTA CLARA, CA 95051-6105

BW2 - FIRE PROTECTION  
FAB LEVEL

FIRE PROTECTION PLAN

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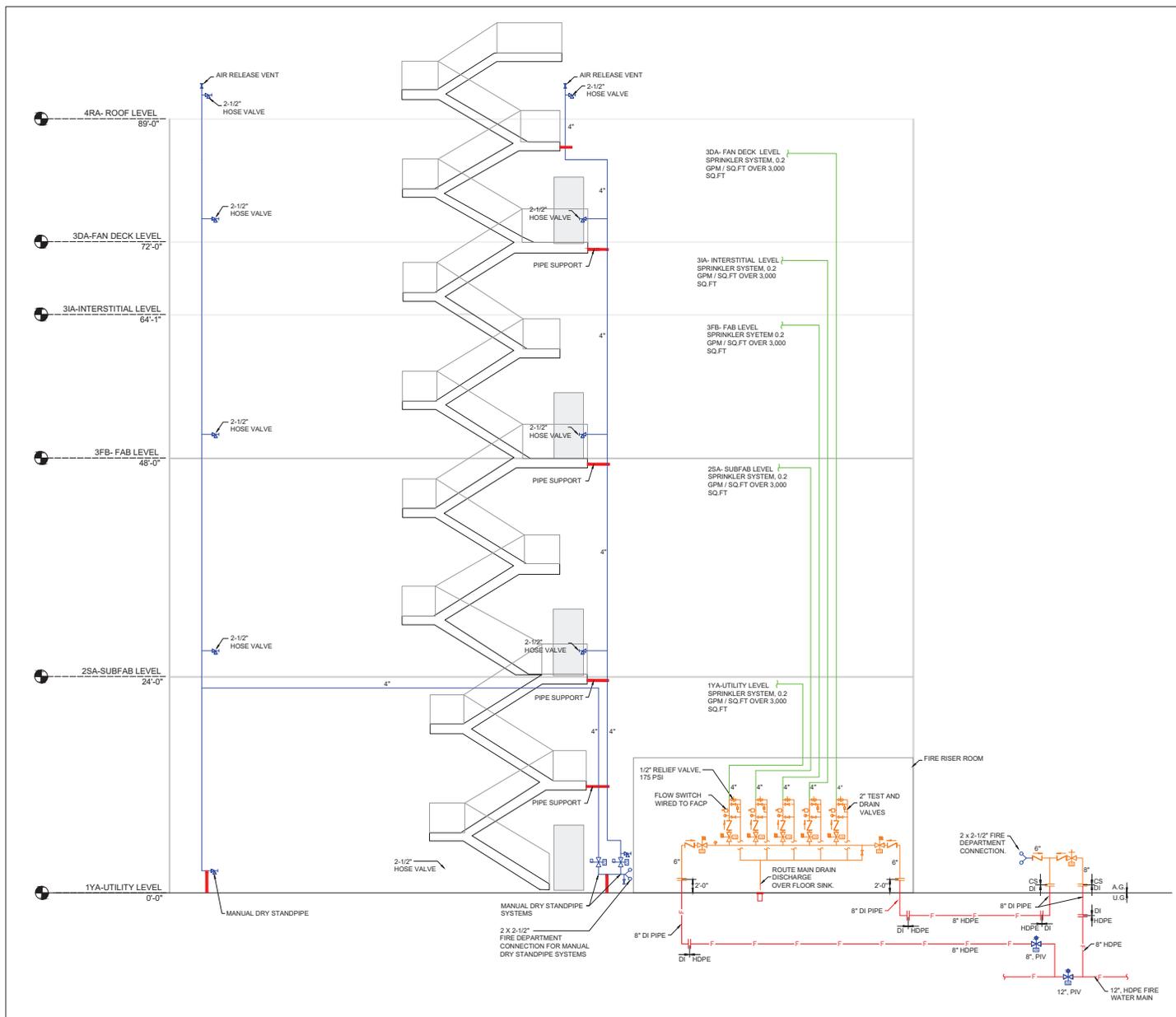
**1 FIRE PROTECTION PLAN, FAB BUILDING- FAB LEVEL 3FA**  
1/8" = 1'-0"

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA								
BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/SF)	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (SQ FT)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
FAB LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	100. SPRINKLERS ADJACENT TO STUBS = 8 FT X 8 FT	QR	ORDINARY

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**GENERAL NOTES**

- SEE DRAWING 892-FF-AAA-A000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-L AND 6322-L AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA13, NFPA 316, AND FM GLOBAL DATA SHEETS.
- PER STANDARD 1208-192 "FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS" SECTION 31-8-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS 1, MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- FAB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED TO MEET NFPA13, NFPA 316, STANDARD 1220-L, SECTION 21-00-30-00 AND LOCAL CODE REQUIREMENTS. THE SPRINKLER SYSTEM IS CLASSIFIED AS ORDINARY HAZARD GROUP 2, WITH A DESIGN DENSITY OF 0.20-GPM/FT<sup>2</sup> OVER A 3,000 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1; AND STANDARD 1220-L, APPENDIX A). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 600-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2, AND STANDARD 1220-L), TOTALING 1,100-GPM FOR A DURATION OF 60-90 MINUTES.

ENGINEER OF RECORD APPROVALS

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06/24/25	06/24/25	06/24/25	06/24/25

PLANNING DEPARTMENT COMMENT RESPONSE 1	NOCS	06/21/25
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CONSTRUCTION



**BW2 - FIRE PROTECTION  
RISER DIAGRAM**

FIRE PROTECTION PLAN

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		1/1/25

**1 FIRE RISER DIAGRAM, FAB BUILDING**  
NTS

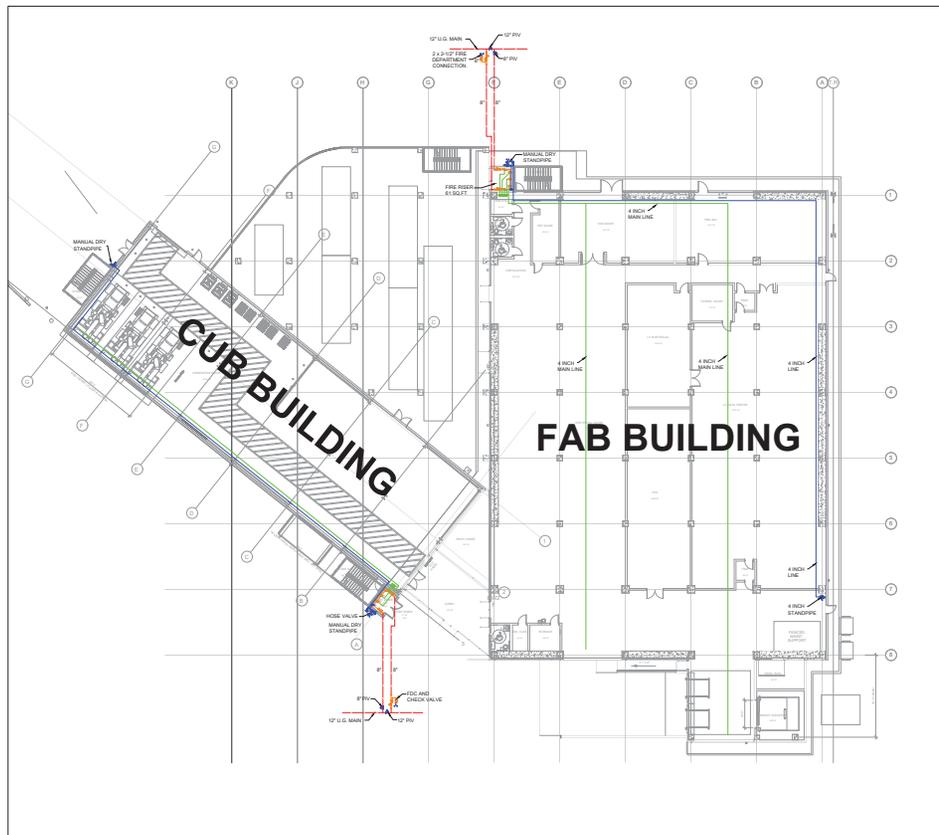
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### FIRE PROTECTION SYMBOLS

-  UNDERGROUND FIRE WATER LINE
-  SPRINKLER SYSTEM MAIN/HEADER
-  FIRE PROTECTION SYSTEM (SPRINKLER SYSTEM)
-  STANDPIPE
-  POST INDICATOR GATE VALVE WITH SUPERVISORY SWITCH
-  INDICATING BUTTERFLY VALVE WITH SUPERVISORY SWITCH
-  CHECK VALVE
-  WET SPRINKLER SYSTEM RISER
-  VERTICAL RISER
-  MANUAL DRY STANDPIPE
-  CLASS I HOSE VALVE
-  RELIEF VALVE
-  FLOW SWITCH (WIRED TO FACP)
-  PRESSURE GAUGE
-  SITE GLASS
-  FIRE DEPARTMENT CONNECTION
-  DRAIN VALVE

### FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/SF)	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (SQ FT)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
GENERAL PURPOSE (OFFICE BUILDING, MECHANICAL ROOM, CAFETERIAS, OTHER AREAS SUPPORTING OFFICE-USE AREAS)	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD OR QR	ORDINARY
TEST & ASSEMBLY	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD OR QR	ORDINARY
DATA CENTERS	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	INTERMEDIATE
SORT	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD OR QR	ORDINARY
<b>FAB BUILDING</b>								
BASEMENT/UTILITY LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	ORDINARY
SUBFAB LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	LITHOGRAPHY = 8 FT X 8 FT NON LITHO = 8 FT X 12 FT	QR	ORDINARY
FAB LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	100 SPRINKLERS ADJACENT TO STB/UTB = 8 FT X 8 FT	QR	ORDINARY
INTERSTITIAL LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	ORDINARY
FAN DECK LEVEL	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	QR	ORDINARY
<b>CUB BUILDING</b>								
CUB LEVEL 1, GENERATOR ROOM	EXTRA HAZARD (GROUP 1)		WET PIPE	0.3	2500	100	STANDARD	INTERMEDIATE
CUB LEVEL 2, ELECTRICAL ROOM	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD	INTERMEDIATE
CUB LEVEL 3	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD	INTERMEDIATE



### GENERAL NOTES

1. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE FIRE PROTECTION SYSTEM THROUGHOUT THE ENTIRE BUILDING, DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
  - A. CALIFORNIA BUILDING CODE, 2022 EDITION, AS ADOPTED AND AMENDED BY THE CITY OF SANTA CLARA, CALIFORNIA
  - B. CALIFORNIA FIRE CODE, 2022 EDITION, AS ADOPTED AND AMENDED BY THE CITY OF SANTA CLARA, CALIFORNIA
  - C. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
  - D. NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2019 EDITION
  - E. NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2016 EDITION
  - F. SECTION 21.05.30.00.00 FIRE PROTECTION SYSTEM
  - G. STANDARD 0222-L WATER SUPPLY AND DISTRIBUTION FOR FIRE PROTECTION SYSTEMS
  - H. STANDARD 1220-L FIRE PROTECTION SYSTEMS FOR BUILDINGS
2. WORK PERTINENT TO THE FIRE SPRINKLER SYSTEM SHALL BE DONE BY A QUALIFIED, COMPETENT FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION CONTRACTOR WHO CAN FURNISH A LIST OF SATISFACTORY INSTALLERS OF THIS TYPE. THE SUBCONTRACTOR SHALL HOLD ALL CURRENT LICENSES REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
3. MATERIALS, PIPE SIZES, AND INSTALLATION OF UNDERGROUND PIPE SYSTEMS MUST COMPLY WITH NFPA 24, STANDARD 0222-L, AND LOCAL CODE REQUIREMENTS.
4. DESIGN, MATERIALS, PIPING SYSTEM, AND INSTALLATION OF SPRINKLER SYSTEMS SHALL COMPLY WITH NFPA 13, SECTION 21.05.30.00, AND LOCAL CODE REQUIREMENTS.
5. FIRE SPRINKLER SYSTEM COMPONENTS (SPRINKLERS, VALVES, FLOW SWITCH, ...) SHALL BE LISTED AND FM APPROVED FOR FIRE PROTECTION SYSTEMS. WHEN A SPECIFIED ITEM HAS EITHER AN FM APPROVAL OR A UL LISTING, BUT NOT BOTH, THE MATERIAL OR EQUIPMENT WITH THE FM APPROVAL SHALL BE FURNISHED.
6. REARLUNG AREAS, INCLUDING ELECTRICAL, COMPUTER ROOMS, AND CANOPIES, SHALL BE FULLY PROTECTED BY FIRE SPRINKLERS. THIS INCLUDES ALL SPACES BELOW SUSPENDED CEILING AND ABOVE SUSPENDED CEILING WHERE COMBUSTIBLES ARE OR ARE INTENDED TO BE LOCATED.
7. EACH RISER ROOM SHALL HAVE TWO (2) INDEPENDENT LEAD-IN. LEAD-INS ARE REQUIRED TO HAVE POST INDICATOR VALVES (PIV) TO ISOLATE EACH RISER. LOCATE VALVES 40 FEET FROM THE BUILDING. PIVS ARE REQUIRED TO BE MONITORED BY THE BUILDING'S FIRE ALARM PANEL.
8. FIRE DEPARTMENT CONNECTIONS (FDCS) MUST COMPLY WITH NFPA 24, STANDARD 0222-L, AND LOCAL CODE REQUIREMENTS. FDCS ARE POSITIONED AWAY FROM POTENTIAL HAZARDS. IT MUST BE ACCESSIBLE TO A FIRE TRUCK AND WITHIN 50 FEET OF A PUBLIC FIRE HYDRANT. FDCS ARE 3/4-INCH WITH TWO 2 1/2-INCH INLET CONNECTIONS, UNLESS OTHERWISE DIRECTED BY THE AIA/OR THE SITE FIRE PROTECTION SYSTEM OWNER. FDCS SHOULD BE CLEARLY MARKED AND LABELED.
9. STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS I MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
10. FAB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED TO MEET NFPA 13B, STANDARD 1220-L, SECTION 71-50-50-00, AND LOCAL CODE REQUIREMENTS. THE SPRINKLER SYSTEM IS CLASSIFIED AS ORDINARY HAZARD GROUP 2, WITH A DESIGN DENSITY OF 0.20-GPM/SF OVER A 3,000 SF REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1), AND STANDARD 1220-L, APPENDIX A). THE WATER FLOWRATE AT THE BASE OF THE RISER IS 600-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2, AND STANDARD 1220-L), TOTALING 1,100-GPM FOR A DURATION OF 60-90 MINUTES.
11. THE CUB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED IN COMPLIANCE WITH NFPA 13, NFPA 318, STANDARD 1220-L, SECTION 21.05.30.00, AND LOCAL CODE REQUIREMENTS. THE SYSTEM IS BASED ON EXTRA HAZARD GROUP 1, MAINLY DUE TO THE DIESEL-DRIVEN GENERATORS. THE SPRINKLER DESIGN DENSITY IS 0.30-GPM/SF OVER A 2,500 SF REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1). THE WATER FLOWRATE AT THE BASE OF THE RISER IS 700-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2), TOTALING 1,200-GPM FOR A DURATION OF 90-120 MINUTES.
12. PER STANDARD 1228-782 FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SENSOR ROOMS, FIBER AND TELEPHONE COMMUNICATION ROOMS, SECTION 3.1-B-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.

### ENGINEER OF RECORD APPROVALS

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PLANNING DEPARTMENT COMMENT RESPONSE 1

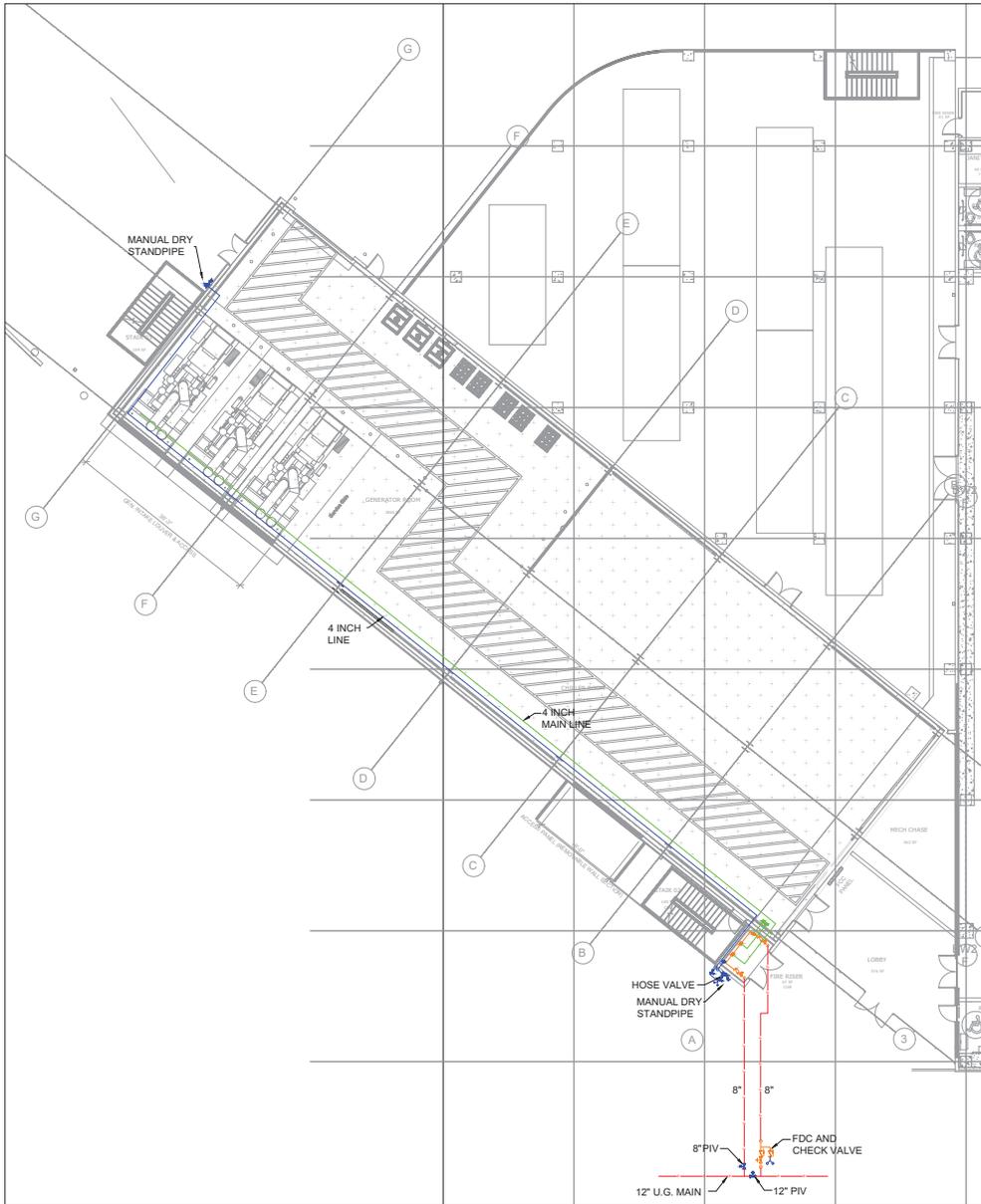
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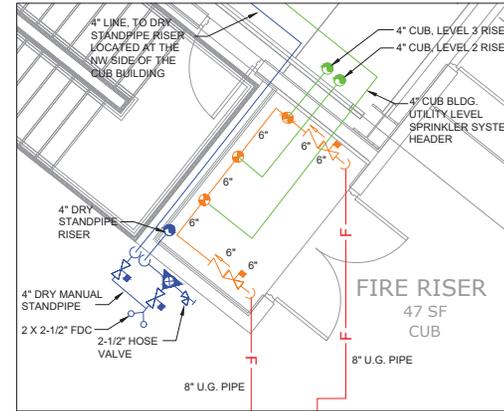
**intel**

INTEL CORPORATION  
3055 BOWLING GREEN  
SANTA CLARA, CA 95051-0001

CB2 - FIRE PROTECTION  
FIRE PROTECTION SYSTEM  
GENERAL NOTES



1 FIRE PROTECTION PLAN, CUB BUILDING- UTILITY LEVEL  
1/8" = 1'-0"



2 FIRE PROTECTION PLAN, CUB BUILDING FIRE RISER ROOM  
1/2" = 1'-0"

GENERAL NOTES

1. SEE DRAWING CB2-FP-AAA-A0000 FOR GENERAL NOTES AND LEGENDS.
2. FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
3. SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-1 AND 0222-1 AND SECTION 21-00-30-00.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA13, NFPA 316, AND FM GLOBAL DATA SHEETS.
5. PER STANDARD 1228-782 "THE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS" SECTION 31-6-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
6. STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS 1 MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
7. THE CUB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED IN COMPLIANCE WITH NFPA 13, NFPA 316, STANDARD 1220-1, SECTION 21\_00\_30\_00, AND LOCAL CODE REQUIREMENTS. THE SYSTEM IS BASED ON EXTRA HAZARD GROUP 1, MAINLY DUE TO THE DIESEL-DRIVEN GENERATORS. THE SPRINKLER DESIGN DENSITY IS 0.30-GPM/FT<sup>2</sup> OVER A 2,500 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 750-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2), TOTALING 1,250-GPM FOR A DURATION OF 90-120 MINUTES.

ENGINEER OF RECORD APPROVALS			
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PLANNING DEPARTMENT COMMENT RESPONSE 1

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CONSTRUCTION

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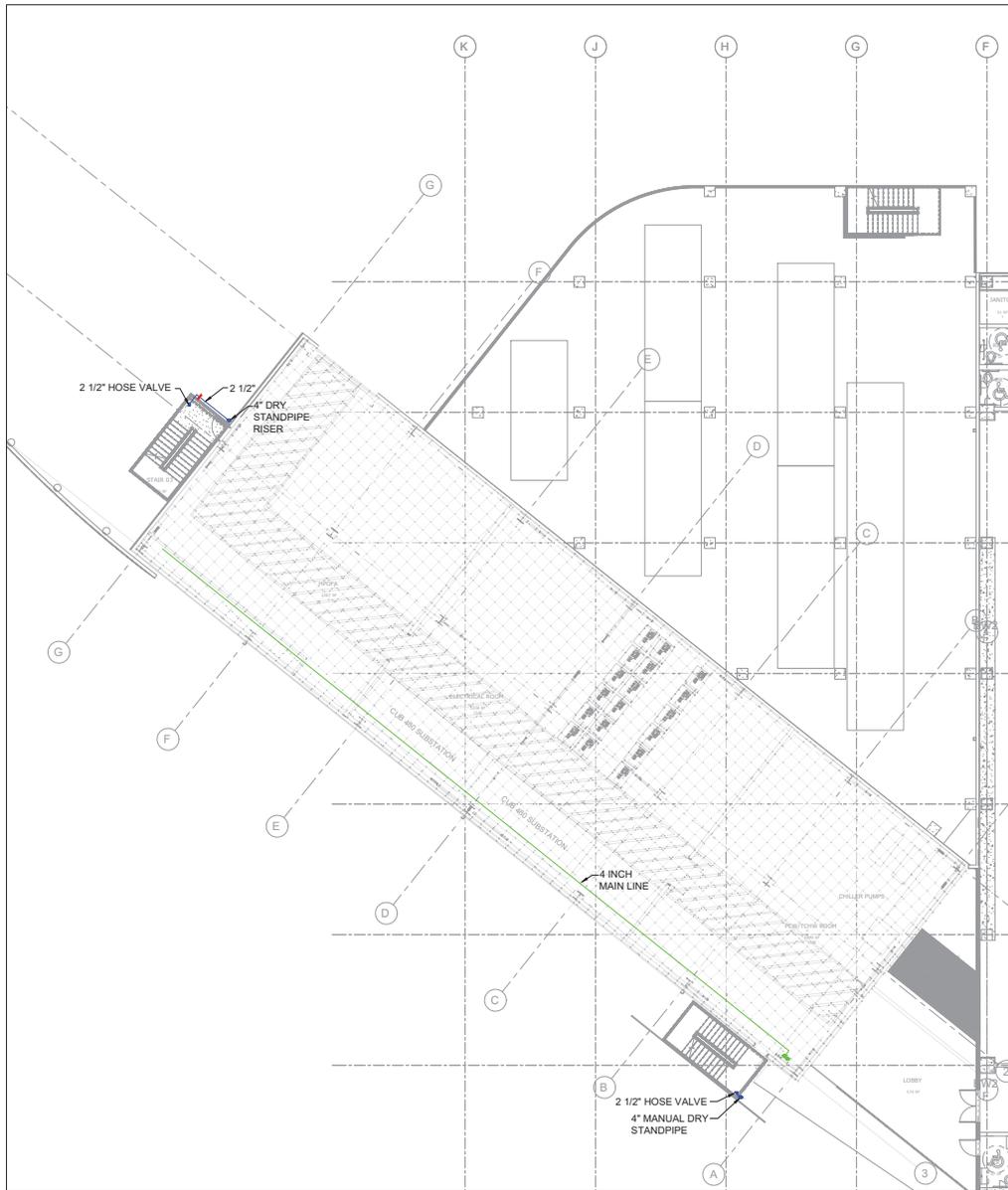
INTEL CORPORATION  
300 BOWERS AVENUE  
SANTA CLARA, CA 95050-1105

CB2 - FIRE PROTECTION  
CUB BUILDING - LEVEL 1

FIRE PROTECTION PLAN

CB2-FP-11A-A0000.dwg	F-10	
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FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA								
BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/FT <sup>2</sup> )	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (SQ FT)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
CUB, LEVEL 1, GENERATOR ROOM	EXTRA HAZARD (GROUP 1)		WET PIPE	0.3	2500	100	STANDARD	INTERMEDIATE



1 FIRE PROTECTION PLAN, CUB BUILDING - LEVEL 2  
1/8" = 1'-0"

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/SF)	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (SQ FT)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
CUB, LEVEL 2, ELECTRICAL ROOM	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD	INTERMEDIATE

GENERAL NOTES

- SEE DRAWING CB2-FP-AAA-A0000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-L AND 0222-1, AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA13, NFPA 310, AND FM GLOBAL DATA SHEETS.
- PER STANDARD 1228-782 "FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS" SECTION 31-8-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS 1. MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- THE CUB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED IN COMPLIANCE WITH NFPA 13, NFPA 31A, STANDARD 1220-L, SECTION 21.00.30.00, AND LOCAL CODE REQUIREMENTS. THE SYSTEM IS BASED ON EXTRA HAZARD GROUP 1, MAINLY DUE TO THE DIESEL-DRIVEN GENERATORS. THE SPRINKLER DESIGN DENSITY IS 0.30-GPM/FT<sup>2</sup> OVER A 2,500 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.2.1.1). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 750-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2), TOTALING 1,250-GPM FOR A DURATION OF 90-120 MINUTES.

ENGINEER OF RECORD APPROVALS			
FLUOR	IN	SEAL	DATE

PLANNING DEPARTMENT COMMENT RESPONSE 1	MODS	08/01/25

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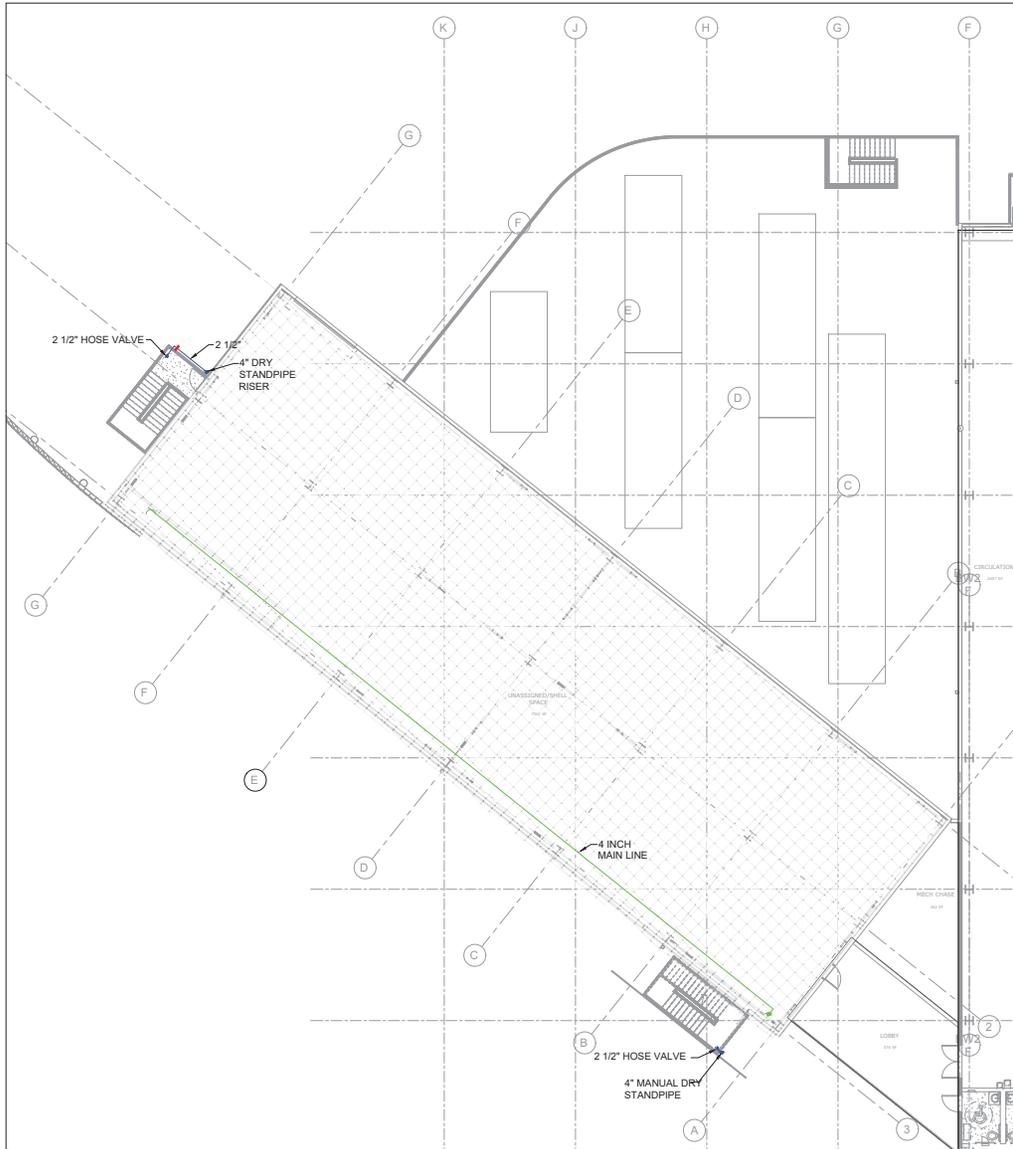


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CB2 - FIRE PROTECTION  
CUB BUILDING - LEVEL 2

FIRE PROTECTION PLAN

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1 FIRE PROTECTION PLAN, CUB BUILDING- LEVEL 3  
1/8" = 1'-0"

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

BUILDING OR AREA	HAZARD CLASSIFICATION	MARK	SYSTEM TYPE	DENSITY (GPM/SF)	REMOTE AREA (SF)	MAXIMUM HEAD COVERAGE (SQ FT)	SPRINKLER HEAD TYPE	TEMP RATING (°F)
CUB LEVEL 3	ORDINARY HAZARD (GROUP 2)		WET PIPE	0.2	3000	130	STANDARD	INTERMEDIATE

GENERAL NOTES

- SEE DRAWING CB2-FP-AAA-A0000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1228-L AND 1222-L AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA13, NFPA 318, AND FM GLOBAL DATA SHEETS.
- PER STANDARDS 1228-762 FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS' SECTION 21-8-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS I MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- THE CUB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED IN COMPLIANCE WITH NFPA 13, NFPA 318, STANDARD 1220-L, SECTION 21.00.30.00, AND LOCAL CODE REQUIREMENTS. THE SYSTEM IS BASED ON EXTRA HAZARD GROUP 1, MAINLY DUE TO THE DIESEL-DRIVEN GENERATORS. THE SPRINKLER DESIGN DENSITY IS 0.30-GPM/FT<sup>2</sup> OVER A 2,500 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.2.1.1). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 750-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.2.1.2), TOTALING 1,250-GPM FOR A DURATION OF 90-120 MINUTES.

ENGINEER OF RECORD APPROVALS			
FLOOR	DATE	BY	DATE

PLANNING DEPARTMENT COMMENT RESPONSE 1	MODS	DATE

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CONSTRUCTION

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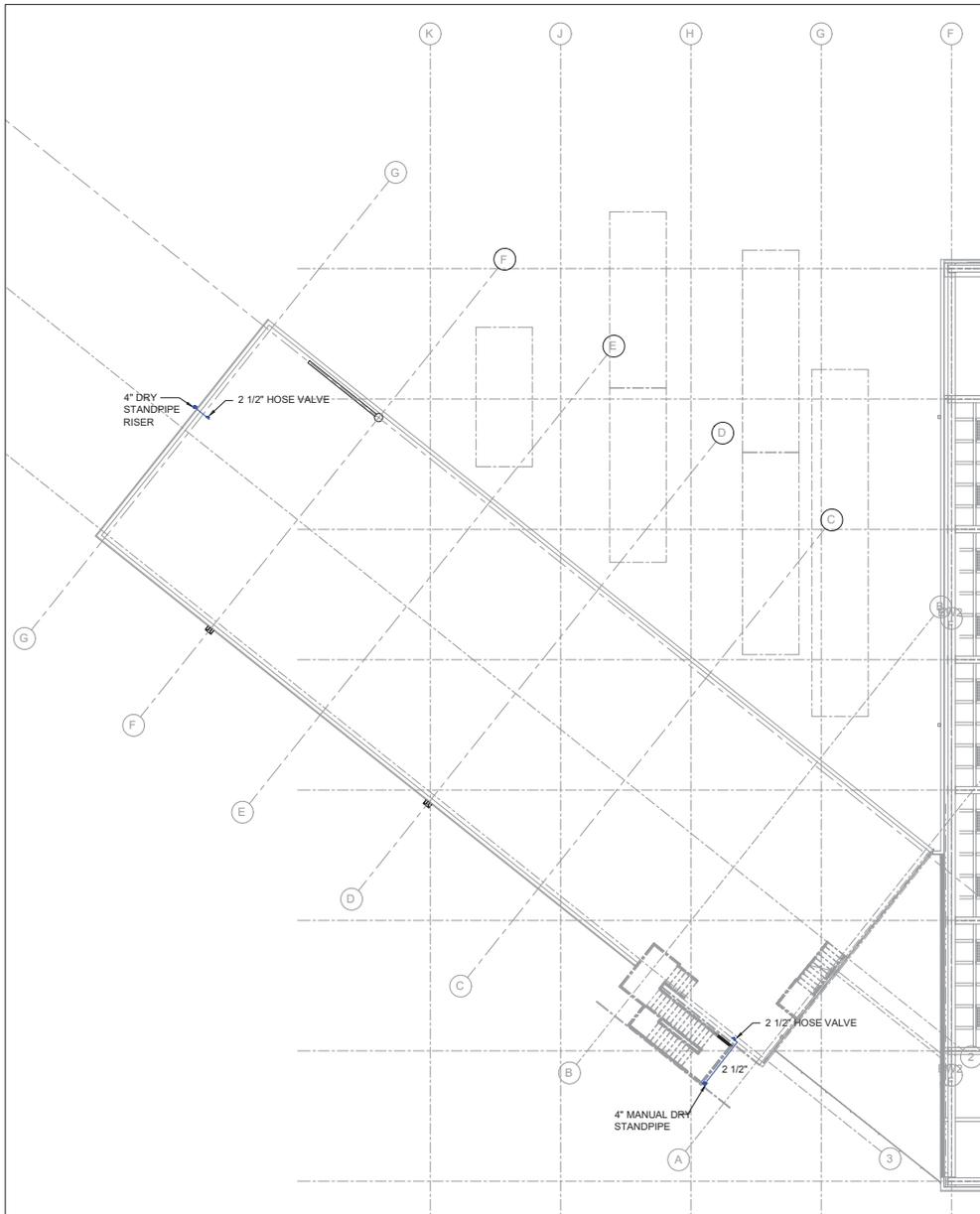
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SANTA CLARA, CA 95052-1535

CB2 - FIRE PROTECTION  
CUB BUILDING - LEVEL 3

FIRE PROTECTION PLAN

CB2-FP-31A-A0000.dwg	FP-12	1/8" = 1'-0"
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1 FIRE PROTECTION PLAN, CUB BUILDING- ROOF  
1/8" = 1'-0"

GENERAL NOTES

- SEE DRAWING CSD-FP-44A-0000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-L AND 0222-L AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA13, NFPA 318, AND FM GLOBAL DATA SHEETS.
- PER STANDARD 1208-792 "FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, FMS AND TELEPHONE COMMUNICATION ROOMS" SECTION 3.1-B-5 A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS 1, MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- THE CUB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED IN COMPLIANCE WITH NFPA 13, NFPA 318, STANDARD 1220-L, SECTION 21.00.30.00, AND LOCAL CODE REQUIREMENTS. THE SYSTEM IS BASED ON EXTRA HAZARD GROUP 1, MAINLY DUE TO THE DIESEL-DRIVEN GENERATORS. THE SPRINKLER DESIGN DENSITY IS 0.30-GPM/FT<sup>2</sup> OVER A 2,500 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.1). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 750-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2), TOTALING 1,250-GPM FOR A DURATION OF 90-120 MINUTES.

ENGINEER OF RECORD APPROVALS			
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FLUOR	12/20/2023	000000	000000

PLANNING DEPARTMENT COORDINATE RESPONSE 1	NOVUS	08/01/2025
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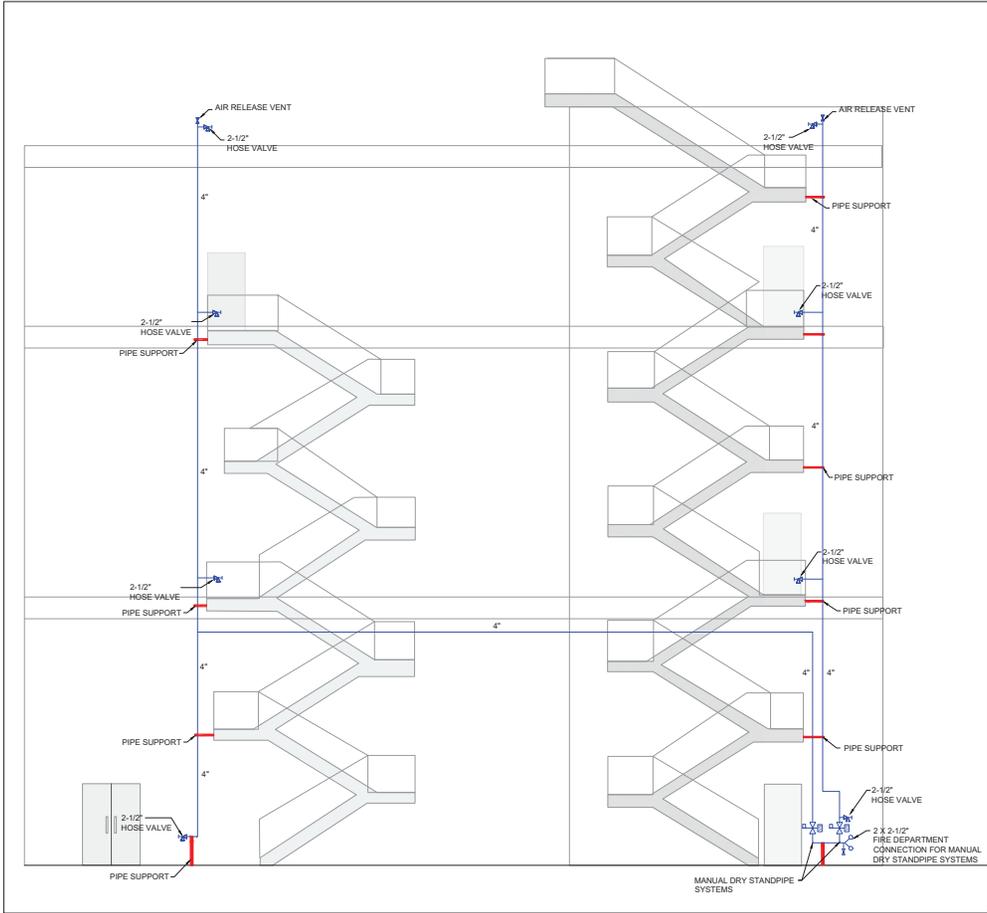
**FLUOR**

**intel** INTEL CORPORATION  
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SANTA CLARA, CA 95051-6120

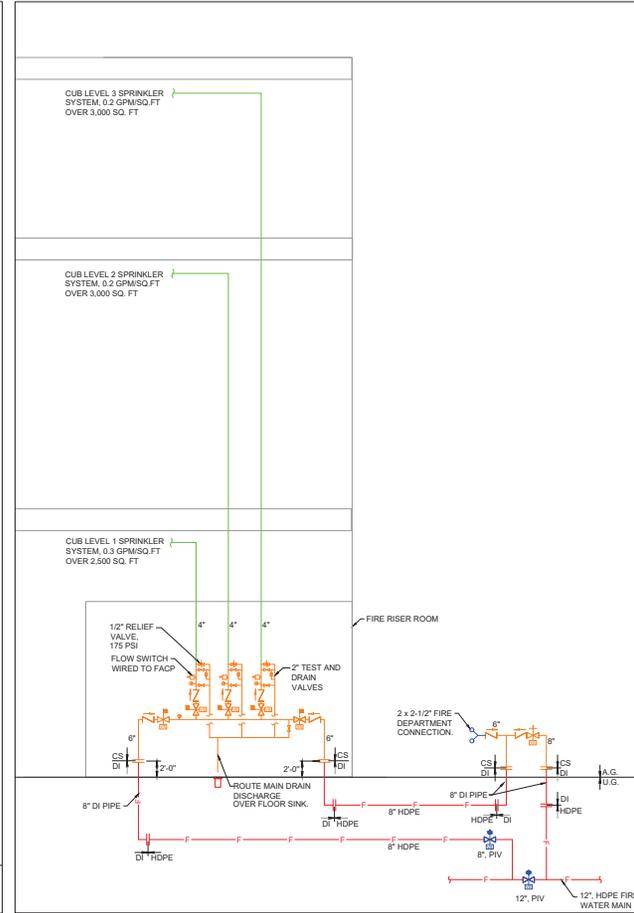
CB2 - FIRE PROTECTION  
CUB BUILDING - ROOF LEVEL

FIRE PROTECTION PLAN

CSD-FP-44A-0000.dwg	FP-13	1/8" = 1'-0"
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1 FIRE RISER DIAGRAM, MANUAL DRY STANDPIPE SYSTEMS  
NTS, ELEVATION VIEW



1 FIRE RISER DIAGRAM, SPRINKLER SYSTEMS  
NTS, ELEVATION VIEW

GENERAL NOTES

- SEE DRAWING CB2-FP-AAA-A0000 FOR GENERAL NOTES AND LEGENDS.
- FIRE SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE PIPE PENETRATIONS AND ROUTING WITH OTHER BUILDING CONTRACTORS.
- SPRINKLER AND STANDPIPE SYSTEMS DESIGN, INSTALLATION, AND ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, NFPA 14, STANDARDS 1220-1 AND 922-1, AND SECTION 21-00-30-00.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FLING ALL RELATED DOCUMENTS, OBTAINING AND PAYING FOR ALL PERMITS FOR THE PORTION OF THE FIRE SPRINKLER SYSTEMS COVERED BY THE WORK, INCLUDING ARRANGING AND PAYING FOR ALL INSPECTIONS AND TESTS OF THE FIRE SPRINKLER INSTALLATION REQUIRED BY SECTION 21-00-30-00, NFPA13, NFPA 318, AND FM GLOBAL DATA SHEETS.
- PER STANDARD 1228-782 FIRE PROTECTION GUIDELINES FOR COMPUTER/DATA PROCESSING ROOMS, SERVER ROOMS, PMS AND TELEPHONE COMMUNICATION ROOMS' SECTION 21-05-5. A SEPARATE ISOLATION VALVE LOCATION FOR WATER FLOW SENSORS SHALL BE CONNECTED TO THE COMPUTER/DATA PROCESSING/SERVER/TELECOM ROOMS.
- STANDPIPE SYSTEMS FOR BUILDINGS ARE CLASS I MANUAL DRY STANDPIPE SYSTEM AND SHALL BE DESIGNED AND INSTALLED PER NFPA 14.
- THE CUB BUILDING IS TO BE EQUIPPED WITH AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM DESIGNED IN COMPLIANCE WITH NFPA 13, NFPA 318, STANDARD 1220-1, SECTION 21.00.30.00, AND LOCAL CODE REQUIREMENTS. THE SYSTEM IS BASED ON EXTRA HAZARD GROUP 1, MAINLY DUE TO THE DIESEL-DRIVEN GENERATORS. THE SPRINKLER DESIGN DENSITY IS 0.30-GPM/FT<sup>2</sup> OVER A 2,500 FT<sup>2</sup> REMOTE AREA OF SPRINKLER OPERATION (NFPA 13, FIGURE 19.2.3.1.3). THE WATER FLOW RATE AT THE BASE OF THE RISER IS 750-GPM PLUS A HOSE ALLOWANCE OF 500-GPM (NFPA 13, TABLE 19.2.3.1.2), TOTALING 1,250-GPM FOR A DURATION OF 90-120 MINUTES.

ENGINEER OF RECORD APPROVALS			
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PLANNING DEPARTMENT COMMENT RESPONSE 1	MOJUS	08/01/23
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**FLUOR**

INTEL CORPORATION  
9300 BLOSSOM AVENUE  
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CB2 - FIRE PROTECTION  
RISER DIAGRAM

FIRE PROTECTION PLAN

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