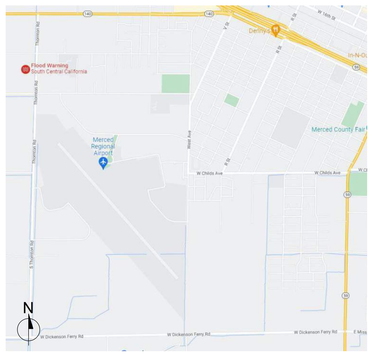
MERCED YOSEMITE REGIONAL AIRPORT

TERMINAL REPLACEMENT PROJECT 2023

PARCEL APN# 059-300-025-000
20 MACREADY DRIVE MERCED, CA 95641

AIP No.: 3-06-0152-030-2023
CITY OF MERCED PROJECT NO.:CP230060

VICINITY MAP



LOCAL MAP

PROJECT DESCRIPTION

CONSTRUCTION OF A NEW SINGLE-STORY TERMINAL BUILDING FOR THE MERCED YOSEMITE REGIONAL AIRPORT ALONG WITH LANDSIDE & AIRSIDE SITE IMPROVEMENTS

GENERAL NOTE

CONTRACTORS ARE FREE TO USE ANY PRODUCT WHICH MEETS THE DESIGNERS' MINIMUM REQUIREMENT AND IS NOT IN CONFLICT WITH OTHER CONTRACT PROVISIONS. UNLESS OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS, ALL LISTED MANUFACTURERS, MAKES, MODELS, ETC. ARE BASIS OF DESIGN PRODUCTS. FOR THESE BASIS OF DESIGN PRODUCTS, OTHER MANUFACTURERS MAY BE SUBSTITUTED AS LONG AS THE STANDARD OF QUALITY AND CHARACTERISTICS MEET OR EXCEED THE STANDARD OF QUALITY AND CHARACTERISTICS OF THE BASIS OF DESIGN. SUBSTITUTIONS SHOULD BE SUBMITTED VIA SUBSTITUTION FORM AND REVIEWED FOR APPROVAL BY THE OWNER AND ARCHITECT.

DEFERRED SUBMITTALS

1. STOREFRONT SYSTEM
2. FIRE SPRINKLER SYSTEM
3. FIRE ALARM
4. ANCHORAGE AND BRACING REQUIREMENTS FOR MECHANICAL, HVAC, PLUMBING, PROCESS & ELECTRICAL EQUIPMENT INCLUDING FLOOR AND ROOF SUPPORTED EQUIPMENT
5. ANCHORAGE OF BAGGAGE HANDLING SYSTEMS/EQUIPMENT 5

NOTE: ALL DEFERRED SUBMITTALS MUST BE REVIEWED BY THE ENGINEER OF RECORD AND STAMPED WITH A SHOP DRAWING STAMP PRIOR TO SUBMITTAL TO THE BUILDING DEPARTMENT FOR REVIEW.

BID ALTERNATES

1. BID ALTERNATE 1: PARKING LOT SHADE CANOPY

SHEET INDEX

Mead & Hunt

Mead & Hunt, Inc.
1360 19th Hole Drive,
Suite 200
Windsor CA 95492
phone: 707-526-5010
meadhunt.com

LICENCED ARCHITECT
TIMOTHY R DACEY
LIC. # 35197
RENEWAL DATE: SEPTEMBER 30, 2021
STATE OF CALIFORNIA

MERCED

pragmatic PROFESSIONAL ENGINEERS

1885 Concourse Drive
San Jose, California 95131
Office | (408) 326-0815
pragmaticprofessionalengineers.com

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ISSUED

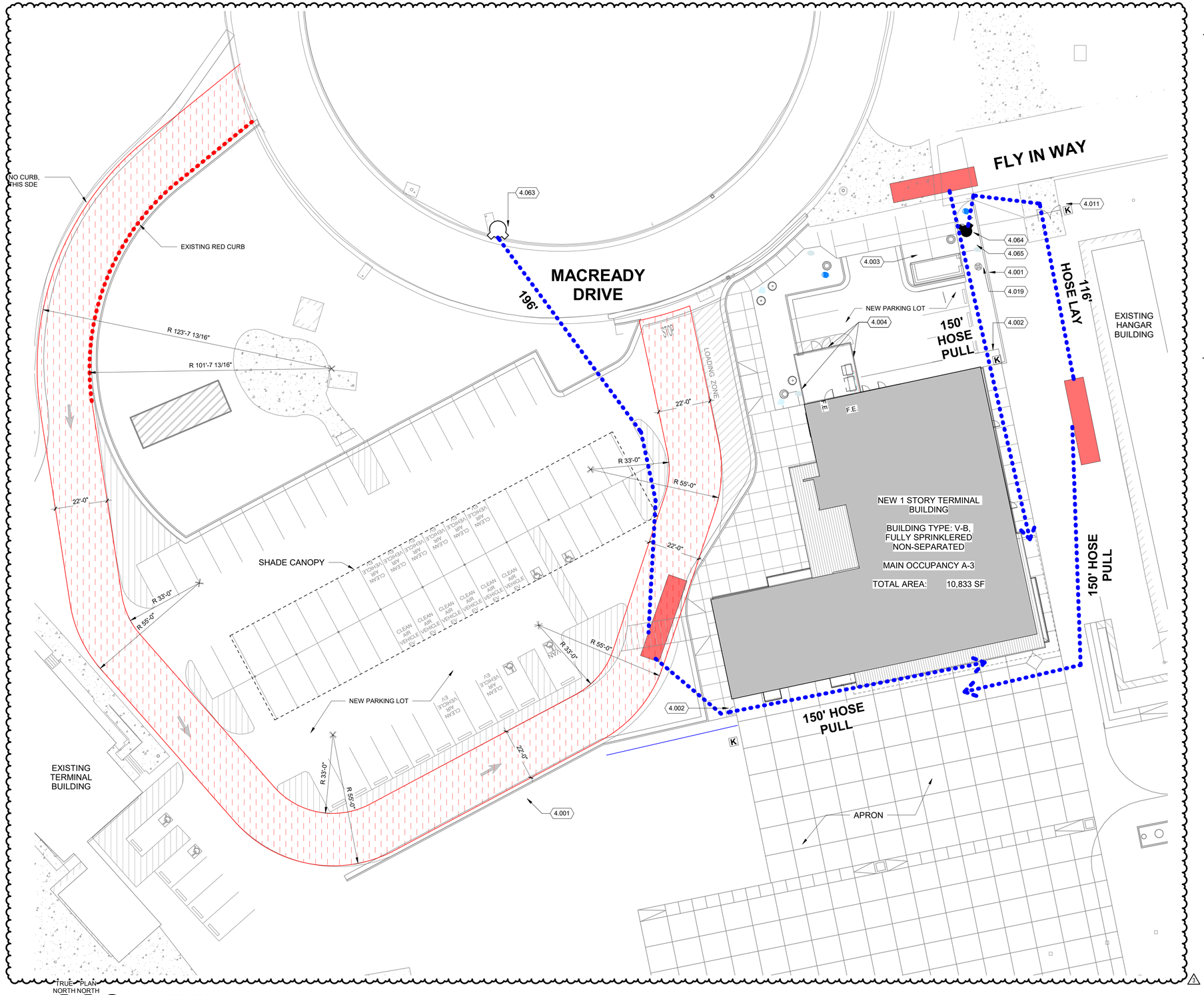
	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.05
DATE:	03.30.2023
DESIGNED BY:	MP/LD
DRAWN BY:	MP/LD/CM
CHECKED BY:	MP/JC

DO NOT SCALE DRAWINGS

SHEET CONTENTS
COVER SHEET

SHEET NO.:
G-001



KEYED NOTES

4.001	NEW FENCE, REFER TO CIVIL DRAWINGS
4.002	NEW 3'-0" WIDE PEDESTRIAN GATE, REFER TO SITE GENERAL NOTES 6 AND 8 AND CIVIL DRAWINGS.
4.003	NEW TRASH ENCLOSURE, REFER TO CIVIL DRAWINGS
4.004	NEW MECHANICAL YARD ENCLOSURE, REFER TO S-401
4.011	EXISTING FENCE
4.019	NEW TIP-DOWN POLE WITH ANTENNA, REFER TO CIVIL AND STRUCTURAL DRAWINGS
4.063	EXISTING FIRE HYDRANT
4.064	NEW FIRE HYDRANT
4.065	NEW FDC

LEGEND:

- EXISTING RED CURB
- HOSE PULL
- HOSE LAY
- FIRE TRUCK
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- K — KNOX BOX

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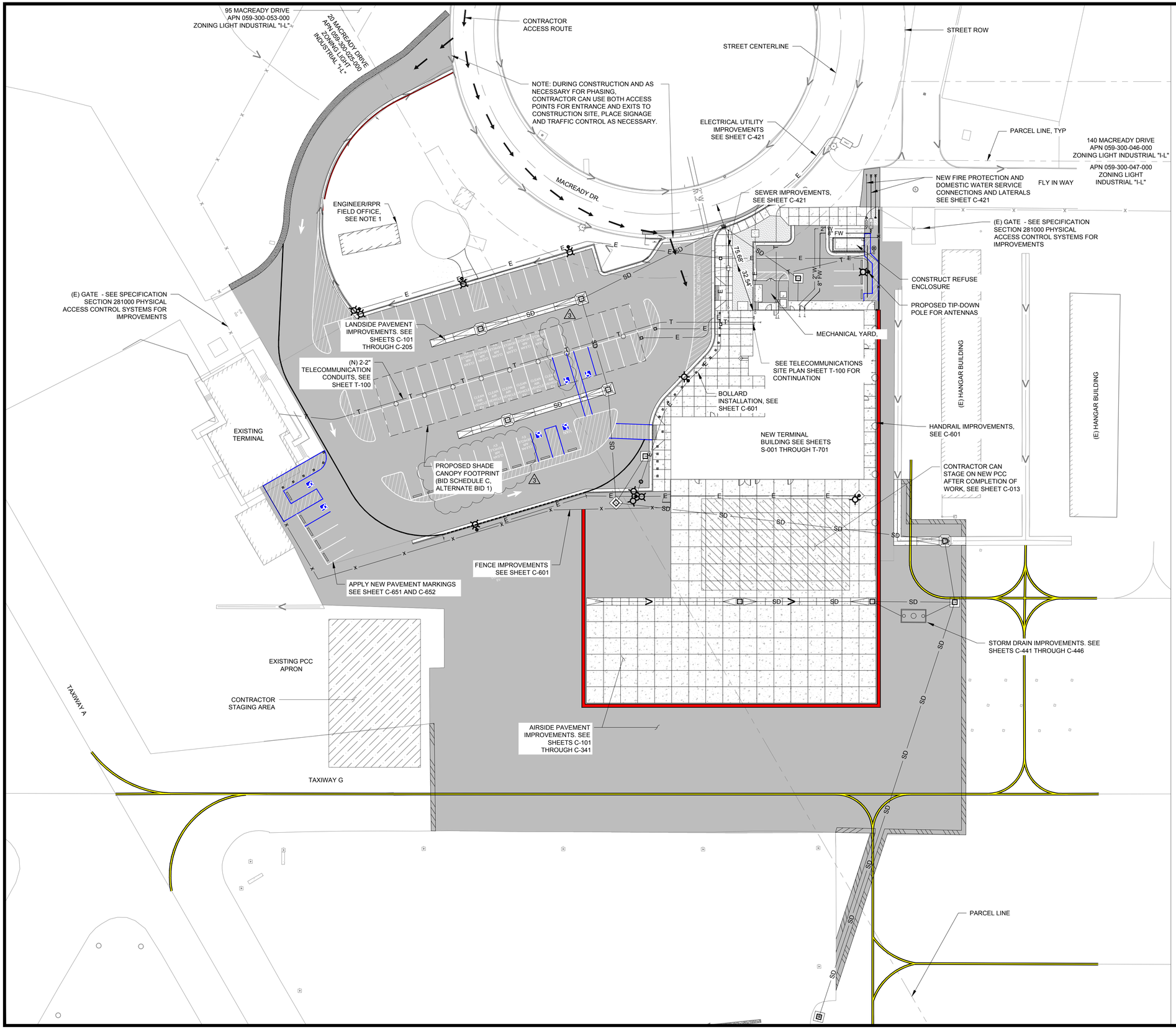
DATE:	03.30.2023
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

DO NOT SCALE DRAWINGS

SHEET CONTENTS
FIRE ACCESS PLAN

SHEET NO.:
G-022



NOTES:

1. ENGINEER/RPR FIELD OFFICE APPROXIMATE LOCATION IDENTIFIED. CONTRACTOR TO EXTEND TEMPORARY POWER TO FACILITY (TEMPORARY GENERATOR IS ACCEPTABLE), CAN RELOCATE TO ALTERNATE LOCATION(S) AS CONSTRUCTION COMMENCES IF TEMPORARY POWER IS MORE ACCESSIBLE AS APPROVED BY THE CITY.
2. CITY ROW AND PARCEL LINEWORK AS PROVIDED BY THE CITY FOR REPRESENTATION PURPOSES, ENGINEER DID NOT CONFIRM WITH REGISTERED LAND SURVEYOR.

PARKING SPACE BREAKDOWN	
PARKING SPACE TYPE	TOTAL PARKING SPOTS
STANDARD	56
ADA ACCESSIBLE	5
EV CHARGING ADA ACCESSIBLE	1
EV CHARGING	12
EMPLOYEE LOT	5
COMBINED PARKING SPACES	79

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DRAWN BY:	JD/JH/ML
CHECKED BY:	JL/RB/DS

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SHEET CONTENTS
OVERALL PROJECT LAYOUT PLAN

SHEET NO.
C-003

REGISTERED PROFESSIONAL ENGINEER
JEFFREY T. LEONARD
NO. 71754
Exp. date: 12/31/23
CIVIL
STATE OF CALIFORNIA

04-21-2023

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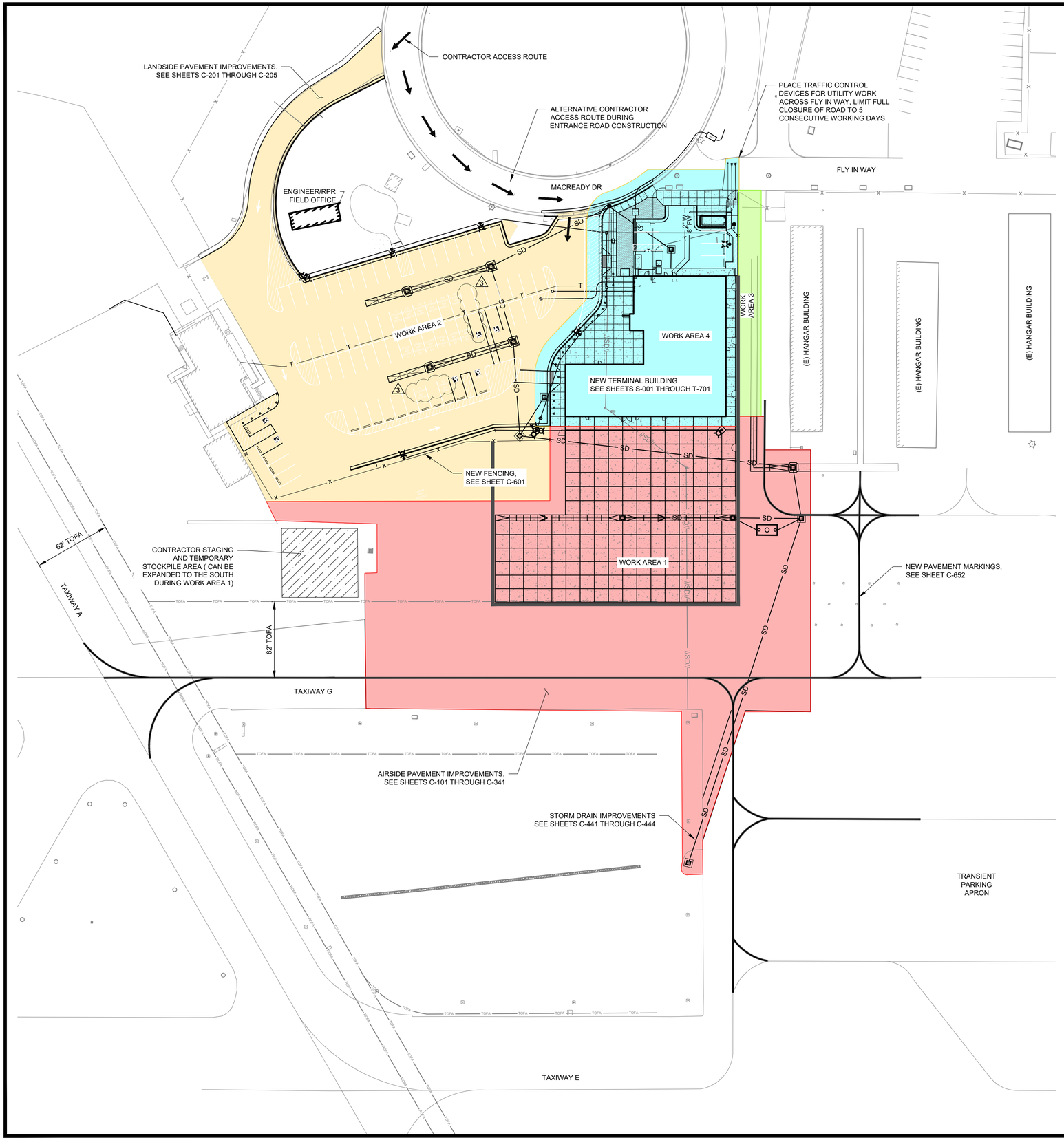

PHASING AND TIME LIMITATIONS

THE PROJECT HAS BEEN DIVIDED INTO TWO ELEMENTS: 1) MOBILIZATION AND 2) CONSTRUCTION. THE CONSTRUCTION ELEMENT HAS BEEN DIVIDED INTO FOUR (4) WORK AREAS TO SEPARATE THE CONSTRUCTION AREAS AND DEFINE WORK AREA RESTRICTIONS ASSOCIATED WITH THE PROJECT. A SEPARATE NOTICE TO PROCEED WILL BE ISSUED FOR THE MOBILIZATION ELEMENT AND THE CONSTRUCTION ELEMENT. THE WORK EFFORTS AND AFFECTED AIRFIELD AREAS WITHIN THE AOA ARE DETAILED BELOW. IF THE CONTRACTOR FAILS TO MEET ANY OF THESE TIME LIMITATIONS, LIQUIDATED DAMAGES WILL BE ASSESSED AS DESCRIBED IN THE PROJECT SPECIFICATION ITEM SP-100 SPECIAL PROVISIONS FOR AIRPORT CONSTRUCTION.

ELEMENT 1 - MOBILIZATION

THE NOTICE TO PROCEED WITH MOBILIZATION SHALL BE GIVEN IMMEDIATELY AFTER AWARD OF THE CONTRACT. ALL WORK INCLUDED IN MOBILIZATION SHALL BE COMPLETED WITHIN FORTY-FIVE (45) CALENDAR DAYS. WITHIN THIS TIME LIMITATION, THE CONTRACTOR SHALL BE ALLOWED THREE (3) CALENDAR DAYS WITHIN THE PROJECT IMPROVEMENT LIMITS BETWEEN THE HOURS OF 8:00 AM AND 4:00 PM TO PERFORM PREPARATORY LAYOUT WORK, UNDERGROUND UTILITY INVESTIGATION, AND POTHOLING. MOBILIZATION WORK WILL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

A. PROCESSING OF REQUIRED SUBMITTALS, INCLUDING THE CONTRACTOR'S WORK SCHEDULE.

B. PREPARATION AND SUBMISSION OF THE SPCD.

C. ALL PREQUALIFICATION TESTING, REVIEW, AND APPROVAL.

D. MIX DESIGN PREPARATION, REVIEW, AND APPROVAL.

E. AIRFIELD SAFETY DEVICES DELIVERED/PREPARED AT THE SITE (CONSTRUCTION FLAGS, LOW PROFILE BARRICADES, TRAFFIC CONES, TEMPORARY SIGNS, TEMPORARY SECURITY FENCING).

F. MATERIALS AND EQUIPMENT DELIVERED TO SITE, AS APPLICABLE.

G. SURVEY LAYOUT.

H. UNDERGROUND UTILITY INVESTIGATION AND POTHOLING.

I. ALL MISCELLANEOUS MOBILIZATION EFFORTS REQUIRED TO COMMENCE CONSTRUCTION.

ALL PRELIMINARY WORK REQUIRED TO PURSUE CONSTRUCTION TO COMPLETION WILL BE FINALIZED DURING THE MOBILIZATION ELEMENT TO MINIMIZE DELAYS DURING CONSTRUCTION.

ELEMENT 2 - CONSTRUCTION

AWARD OF THE BASE BID

THE BASE BID WORK INCLUDES DEMOLITION OF EXISTING IMPROVEMENTS AND CONSTRUCTION OF A NEW TERMINAL, PARKING LOT, APRON AND TAXILANE PAVEMENTS, UTILITY CONNECTIONS, STORM DRAIN FACILITIES, SECURITY LIGHTING, FENCING, AND PAVEMENT MARKINGS. CONSTRUCTION OF ALL UNDERGROUND UTILITIES, EARTHWORK, PAVEMENT, AND FLAT WORK SHALL BE COMPLETED BY OCTOBER 1, 2023 TO AVOID WEATHER IMPACTS AND CONSTRUCTION DELAYS. ALL WORK INCLUDED IN THE CONSTRUCTION BASE BID SHALL BE COMPLETED BY APRIL 5, 2024, INCLUDING PUNCHLIST ITEMS.

AWARD OF THE BID ALTERNATE

THE BID ALTERNATE WORK INCLUDES CONSTRUCTION OF A NEW SHADE CANOPY STRUCTURE IN THE TERMINAL AREA PARKING LOT. CONSTRUCTION OF ALL UNDERGROUND UTILITIES, EARTHWORK, PAVEMENT, AND FLAT WORK SHALL BE COMPLETED BY OCTOBER 1, 2023. ALL OTHER WORK SHALL BE COMPLETED BY APRIL 5, 2024, INCLUDING PUNCHLIST ITEMS.

PHASING REQUIREMENTS FOR BASE BID AND BID ALTERNATE ELEMENTS

THE FOLLOWING REQUIREMENTS ARE NECESSARY TO MAINTAIN AIRFIELD SAFETY AND ACCESS TO THE EXISTING TERMINAL BUILDING THROUGHOUT CONSTRUCTION:

A. AOA MUST BE SECURED AT ALL TIMES WITH A MINIMUM 6-FOOT CHAIN LINK FENCE. ANY PERMANENT OR TEMPORARY GATES MUST BE CLOSED AND LOCKED OR MANNED AT ALL TIMES.

B. CONTRACTOR SHALL MAINTAIN ACCESS AND PROVIDE AT LEAST FIFTEEN (15) REGULAR PARKING SPACES, FOUR (4) ADA PARKING SPACES, AND PAVED ADA ACCESSIBLE PEDESTRIAN ROUTES TO THE EXISTING PASSENGER TERMINAL. TEMPORARY MARKINGS AND SIGNAGE FOR PARKING SPACES MAY BE REQUIRED BASED ON PROPOSED CONTRACTOR PHASING. ACCESS CAN BE PROVIDED BY ONE OF THE TWO EXISTING ENTRY/EXIT POINTS TO THE EXISTING TERMINAL AREA PARKING LOT.

C. WORK WITHIN THE TAXIWAY OBJECT FREE AREA OF TAXIWAY G MUST BE COMPLETED WITHIN 60 CALENDAR DAYS.

D. ALL SITE CIVIL COMPONENTS MUST BE COMPLETED BY OCTOBER 1, 2023 TO MINIMIZE POTENTIAL FOR WEATHER IMPACTS, UNLESS APPROVED BY THE ENGINEER.

CRITICAL AIRFIELD AREAS FOR BASE BID ELEMENTS

THE BASE BID WORK WILL AFFECT TAXIWAY G AND THE EXISTING CORPORATE JET PARKING APRON AREA FROM TAXIWAY G TO THE EXISTING T-HANGARS / TRANSIENT PARKING APRON AREA. THE OBJECT FREE AREAS LISTED BELOW ACCOMMODATES ADG-II AIRCRAFT (WINGSPANS OF 79 FEET OR LESS)

A. TAXIWAY OBJECT FREE AREA (TOFA) - 62.0'

B. TAXILANE OBJECT FREE AREA (TLOFA) - 55.0'

RESTRICTIONS, EQUIPMENT

A. WITH THE EXCEPTION OF A CRANE, CONSTRUCTION EQUIPMENT THAT EXTENDS 20 FEET OR MORE ABOVE GROUND LEVEL WILL BE CLEARED THROUGH THE CITY PRIOR TO MOVING ONTO SITE. EQUIPMENT THAT MAY BE LOWERED READILY WILL BE LOWERED AT NIGHT, DURING REDUCED DAYTIME VISIBILITY, AND DURING OTHER PERIODS OF STORAGE TO COMPLY WITH THE 20-FOOT HEIGHT LIMITATION. A CRANE WITH A HEIGHT OF UP TO 75 FEET IS PERMISSIBLE WITHIN THE ZONES IDENTIFIED ON THE CSPP PLAN SHEETS. THE CRANE SHALL BE LOWERED FOR ANY PERIODS WHEN NOT IN USE.

B. IF DIRECTED BY THE CITY, CONSTRUCTION EQUIPMENT THAT CANNOT BE LOWERED BELOW THE 20-FOOT HEIGHT LIMITATION WILL BE LIGHTED AT NIGHT AND DURING PERIODS OF REDUCED DAYTIME VISIBILITY. THE LIGHT WILL BE MOUNTED ON THE HIGHEST POINT OF EQUIPMENT; WILL BE OMNI-DIRECTIONAL; AND WILL CONSIST OF, AT A MINIMUM, ONE 100-WATT BULB ENCLOSED WITHIN AN AVIATION RED LENS. ALSO, FOR DAYTIME OPERATIONS, MOUNT AN FAA-APPROVED 3-FOOT SQUARE ORANGE AND WHITE CHECKERED FLAG AT THE HIGHEST POINT.

C. DURING DAYLIGHT HOURS WITH SEVERE VISIBILITY PROBLEMS OR HEAVY FOG, CRANES WILL NOT OPERATE. THE CITY WILL DETERMINE WHEN VISIBILITY PROBLEMS EXIST AND WILL COORDINATE AND DESIGNATE REQUIREMENTS FOR POSITION AND LOCATION OF FLAG AND LIGHT.

LEGEND:

	WORK AREA 1
	WORK AREA 2
	WORK AREA 3
	WORK AREA 4

0 40 80

REGISTERED PROFESSIONAL ENGINEER
JEFFREY T. LEONARD
NO. 71754
Exp. date: 12/31/23
CIVIL
STATE OF CALIFORNIA

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DESIGNED BY:	JL/RG/ML
DRAWN BY:	JD/JH/ML
CHECKED BY:	JL/RB/DS

DO NOT SCALE DRAWINGS

SHEET CONTENTS
CONSTRUCTION, SAFETY & PHASING PLAN - OVERVIEW

SHEET NO.
C-011

X:\4665943\220849\ISTECH\CAD\CIVIL\DRAWINGS\C-011 CONSTRUCTION SAFETY & PHASING PLAN.DWG
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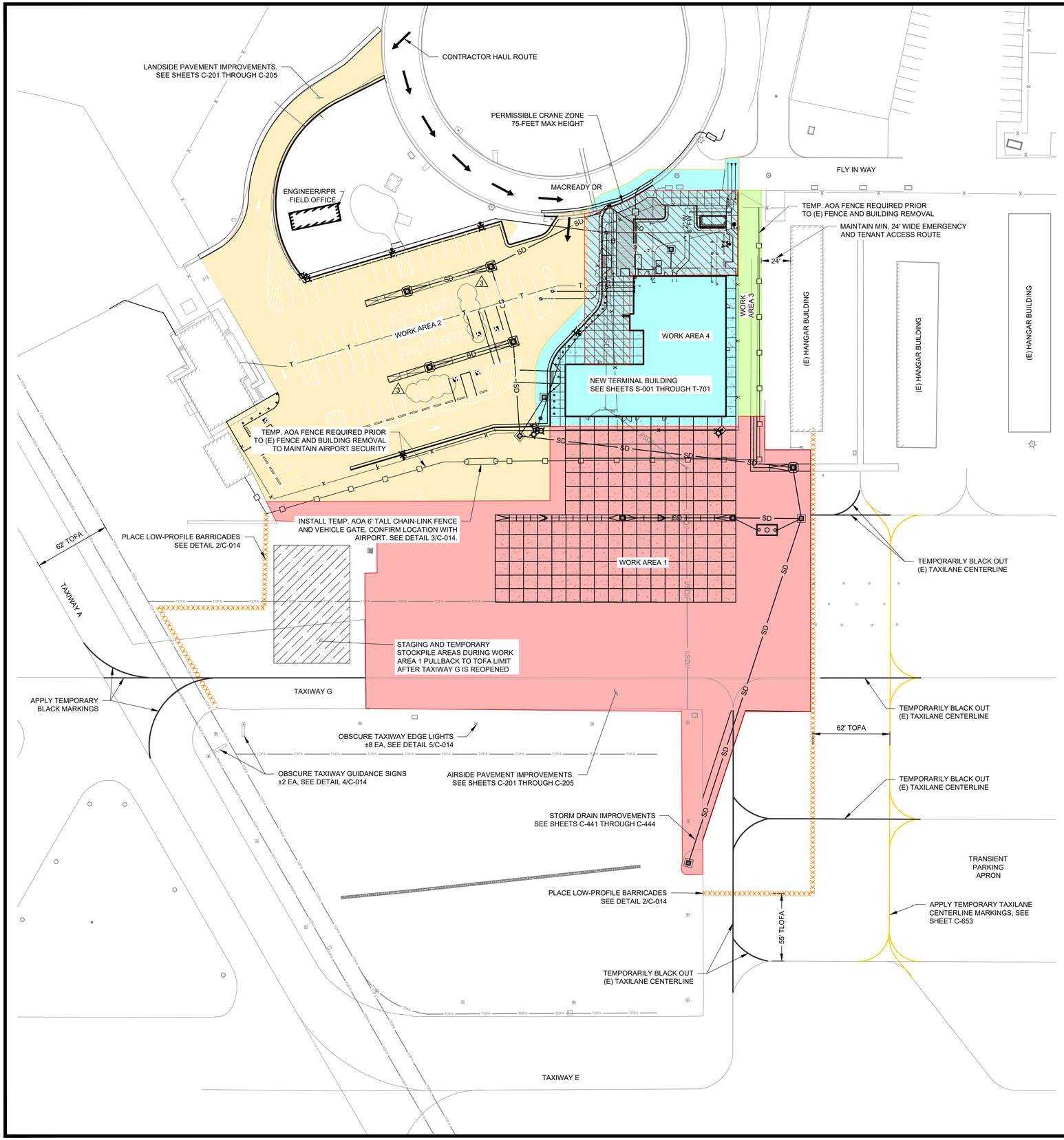

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LEGEND:

	WORK AREA 1
	WORK AREA 2
	WORK AREA 3
	WORK AREA 4

CONDITION 1 APPLIES WHEN TAXIWAY G IS CLOSED

0 40 80

REGISTERED PROFESSIONAL ENGINEER
JEFFREY T. LEONARD
NO. 71754
Exp. date: 12/31/23
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SHEET CONTENTS
CONSTRUCTION, SAFETY & PHASING PLAN - CONDITION 1

SHEET NO.
C-012

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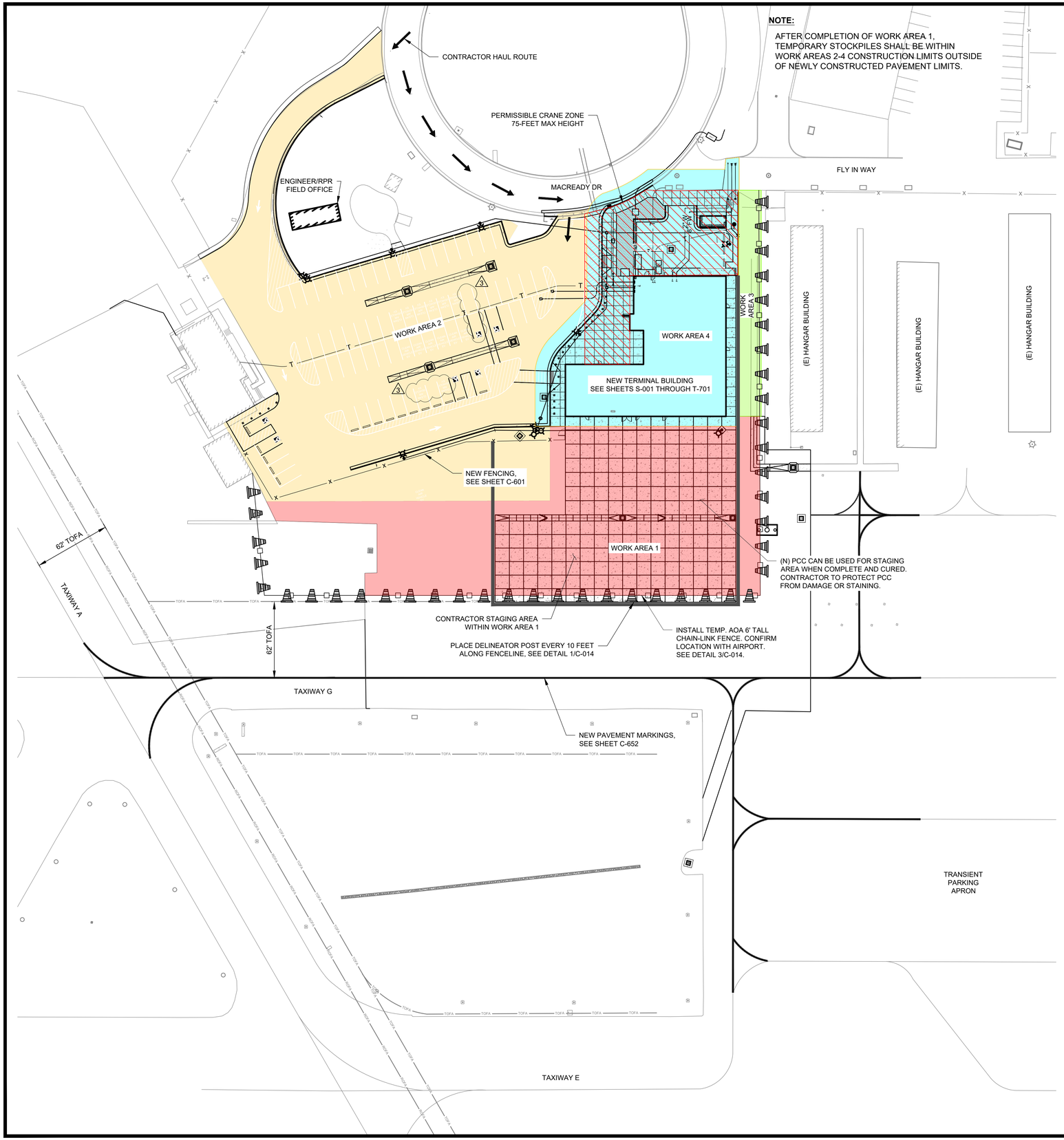

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ELEMENT 1 - MOBILIZATION

THE NOTICE TO PROCEED WITH MOBILIZATION SHALL BE GIVEN IMMEDIATELY AFTER AWARD OF THE CONTRACT. ALL WORK INCLUDED IN MOBILIZATION SHALL BE COMPLETED WITHIN FORTY-FIVE (45) CALENDAR DAYS. WITHIN THIS TIME LIMITATION, THE CONTRACTOR SHALL BE ALLOWED THREE (3) CALENDAR DAYS WITHIN THE PROJECT IMPROVEMENT LIMITS BETWEEN THE HOURS OF 8:00 AM AND 4:00 PM TO PERFORM PREPARATORY LAYOUT WORK, UNDERGROUND UTILITY INVESTIGATION, AND POTHOLING. MOBILIZATION WORK WILL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

A. PROCESSING OF REQUIRED SUBMITTALS, INCLUDING THE CONTRACTOR'S WORK SCHEDULE.

B. PREPARATION AND SUBMISSION OF THE SPCD.

C. ALL PREQUALIFICATION TESTING, REVIEW, AND APPROVAL.

D. MIX DESIGN PREPARATION, REVIEW, AND APPROVAL.

E. AIRFIELD SAFETY DEVICES DELIVERED/PREPARED AT THE SITE (CONSTRUCTION FLAGS, LOW PROFILE BARRICADES, TRAFFIC CONES, TEMPORARY SIGNS, TEMPORARY SECURITY FENCING).

F. MATERIALS AND EQUIPMENT DELIVERED TO SITE, AS APPLICABLE.

G. SURVEY LAYOUT.

H. UNDERGROUND UTILITY INVESTIGATION AND POTHOLING.

I. ALL MISCELLANEOUS MOBILIZATION EFFORTS REQUIRED TO COMMENCE CONSTRUCTION.

ALL PRELIMINARY WORK REQUIRED TO PURSUE CONSTRUCTION TO COMPLETION WILL BE FINALIZED DURING THE MOBILIZATION ELEMENT TO MINIMIZE DELAYS DURING CONSTRUCTION.

ELEMENT 2 - CONSTRUCTION

AWARD OF THE BASE BID

THE BASE BID WORK INCLUDES DEMOLITION OF EXISTING IMPROVEMENTS AND CONSTRUCTION OF A NEW TERMINAL, PARKING LOT, APRON AND TAXILANE PAVEMENTS, UTILITY CONNECTIONS, STORM DRAIN FACILITIES, SECURITY LIGHTING, FENCING, AND PAVEMENT MARKINGS. CONSTRUCTION OF ALL UNDERGROUND UTILITIES, EARTHWORK, PAVEMENT, AND FLAT WORK SHALL BE COMPLETED BY OCTOBER 1, 2023 TO AVOID WEATHER IMPACTS AND CONSTRUCTION DELAYS. ALL WORK INCLUDED IN THE CONSTRUCTION BASE BID SHALL BE COMPLETED BY APRIL 5, 2024, INCLUDING PUNCHLIST ITEMS.

AWARD OF THE BID ALTERNATE

THE BID ALTERNATE WORK INCLUDES CONSTRUCTION OF A NEW SHADE CANOPY STRUCTURE IN THE TERMINAL AREA PARKING LOT. CONSTRUCTION OF ALL UNDERGROUND UTILITIES, EARTHWORK, PAVEMENT, AND FLAT WORK SHALL BE COMPLETED BY OCTOBER 1, 2023. ALL OTHER WORK SHALL BE COMPLETED BY APRIL 5, 2024, INCLUDING PUNCHLIST ITEMS.

PHASING REQUIREMENTS FOR BASE BID AND BID ALTERNATE ELEMENTS

THE FOLLOWING REQUIREMENTS ARE NECESSARY TO MAINTAIN AIRFIELD SAFETY AND ACCESS TO THE EXISTING TERMINAL BUILDING THROUGHOUT CONSTRUCTION:

A. AOA MUST BE SECURED AT ALL TIMES WITH A MINIMUM 6-FOOT CHAIN LINK FENCE. ANY PERMANENT OR TEMPORARY GATES MUST BE CLOSED AND LOCKED OR MANNED AT ALL TIMES.

B. CONTRACTOR SHALL MAINTAIN ACCESS AND PROVIDE AT LEAST FIFTEEN (15) REGULAR PARKING SPACES, FOUR (4) ADA PARKING SPACES, AND PAVED ADA ACCESSIBLE PEDESTRIAN ROUTES TO THE EXISTING PASSENGER TERMINAL. TEMPORARY MARKINGS AND SIGNAGE FOR PARKING SPACES MAY BE REQUIRED BASED ON PROPOSED CONTRACTOR PHASING. ACCESS CAN BE PROVIDED BY ONE OF THE TWO EXISTING ENTRY/EXIT POINTS TO THE EXISTING TERMINAL AREA PARKING LOT.

C. WORK WITHIN THE TAXIWAY OBJECT FREE AREA OF TAXIWAY G MUST BE COMPLETED WITHIN 60 CALENDAR DAYS.

D. ALL SITE CIVIL COMPONENTS MUST BE COMPLETED BY OCTOBER 1, 2023 TO MINIMIZE POTENTIAL FOR WEATHER IMPACTS, UNLESS APPROVED BY THE ENGINEER.

CRITICAL AIRFIELD AREAS FOR BASE BID ELEMENTS

THE BASE BID WORK WILL AFFECT TAXIWAY G AND THE EXISTING CORPORATE JET PARKING APRON AREA FROM TAXIWAY G TO THE EXISTING T-HANGARS / TRANSIENT PARKING APRON AREA.

A. TAXIWAY OBJECT FREE AREA (TOFA) - 62.0'

B. TAXILANE OBJECT FREE AREA (TLOFA) - 55.0'

RESTRICTIONS, EQUIPMENT

A. WITH THE EXCEPTION OF A CRANE, CONSTRUCTION EQUIPMENT THAT EXTENDS 20 FEET OR MORE ABOVE GROUND LEVEL WILL BE CLEARED THROUGH THE CITY PRIOR TO MOVING ONTO SITE. EQUIPMENT THAT MAY BE LOWERED READILY WILL BE LOWERED AT NIGHT, DURING REDUCED DAYTIME VISIBILITY, AND DURING OTHER PERIODS OF STORAGE TO COMPLY WITH THE 20-FOOT HEIGHT LIMITATION. A CRANE WITH A HEIGHT OF UP TO 75 FEET IS PERMISSIBLE WITHIN THE ZONES IDENTIFIED ON THE CSPP PLAN SHEETS. THE CRANE SHALL BE LOWERED FOR ANY PERIODS WHEN NOT IN USE.

B. IF DIRECTED BY THE CITY, CONSTRUCTION EQUIPMENT THAT CANNOT BE LOWERED BELOW THE 20-FOOT HEIGHT LIMITATION WILL BE LIGHTED AT NIGHT AND DURING PERIODS OF REDUCED DAYTIME VISIBILITY. THE LIGHT WILL BE MOUNTED ON THE HIGHEST POINT OF EQUIPMENT; WILL BE OMNI-DIRECTIONAL; AND WILL CONSIST OF, AT A MINIMUM, ONE 100-WATT BULB ENCLOSED WITHIN AN AVIATION RED LENS. ALSO, FOR DAYTIME OPERATIONS, MOUNT AN FAA-APPROVED 3-FOOT SQUARE ORANGE AND WHITE CHECKERED FLAG AT THE HIGHEST POINT.

C. DURING DAYLIGHT HOURS WITH SEVERE VISIBILITY PROBLEMS OR HEAVY FOG, CRANES WILL NOT OPERATE. THE CITY WILL DETERMINE WHEN VISIBILITY PROBLEMS EXIST AND WILL COORDINATE AND DESIGNATE REQUIREMENTS FOR POSITION AND LOCATION OF FLAG AND LIGHT.

LEGEND:

	WORK AREA 1
	WORK AREA 2
	WORK AREA 3
	WORK AREA 4

0 40 80

CONDITION 2 APPLIES WHEN TAXIWAY G IS OPEN

REGISTERED PROFESSIONAL ENGINEER
JEFFREY T. LEONARD
NO. 71754
Exp. date: 12/31/23
CIVIL
STATE OF CALIFORNIA

04-21-2023

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MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
MERCED CA, 95341

ISSUED
03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

CoM NO.: CP230060
M&H NO.: R4665943-220849.05
DATE: 03.30.2023
DESIGNED BY: JL/RG/ML
DRAWN BY: JD/JH/ML
CHECKED BY: JL/RB/DS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CONSTRUCTION, SAFETY & PHASING PLAN - CONDITION 2

SHEET NO.
C-013

X:\4665943\220849.00\TECH\CAD\CIVIL DRAWINGS\C-013 CONSTRUCTION SAFETY & PHASING PLAN.DWG
4/21/2023 9:33:38 AM

(E) TELECOM TO BE PROTECTED IN PLACE

(N) UNDERGROUND ELECTRIC, SEE ELECTRICAL PLAN SHEET E-011

(N) LIGHT POLE, TYP SEE ELECTRICAL PLAN SHEET E-011

(E) NATURAL GAS LINE TO BE PROTECTED

(E) TELECOM LINE TO BE PROTECTED

(E) DOMESTIC WATER SERVICE LATERAL TO BE PROTECTED

(N) STORM DRAIN, SEE SHEET C-441 THROUGH C-446

(N) 2 - 2" TELECOM CONDUITS

CONNECT CONDUITS TO (E) TERMINAL BUILDING

(E) TERMINAL BUILDING

(E) SEWER LATERAL TO BE PROTECTED

MATCHLINE - SEE SHEET C-421

CLEAN AIR VEHICLE EV

VAN

15003

0 10 20

LICENSED PROFESSIONAL ENGINEER
Rafael P. Gonzalez
C 74831
Exp. 12-31-23
Civil Engineer
STATE OF CALIFORNIA
4-21-23

X:\4665943\220849.05\TECH\CAD\CIVIL\DRAWINGS\UTILITY CONNECTION PLAN.DWG
4/21/2023 9:39:45 AM

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MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
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03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

CoM NO.:	CP230060
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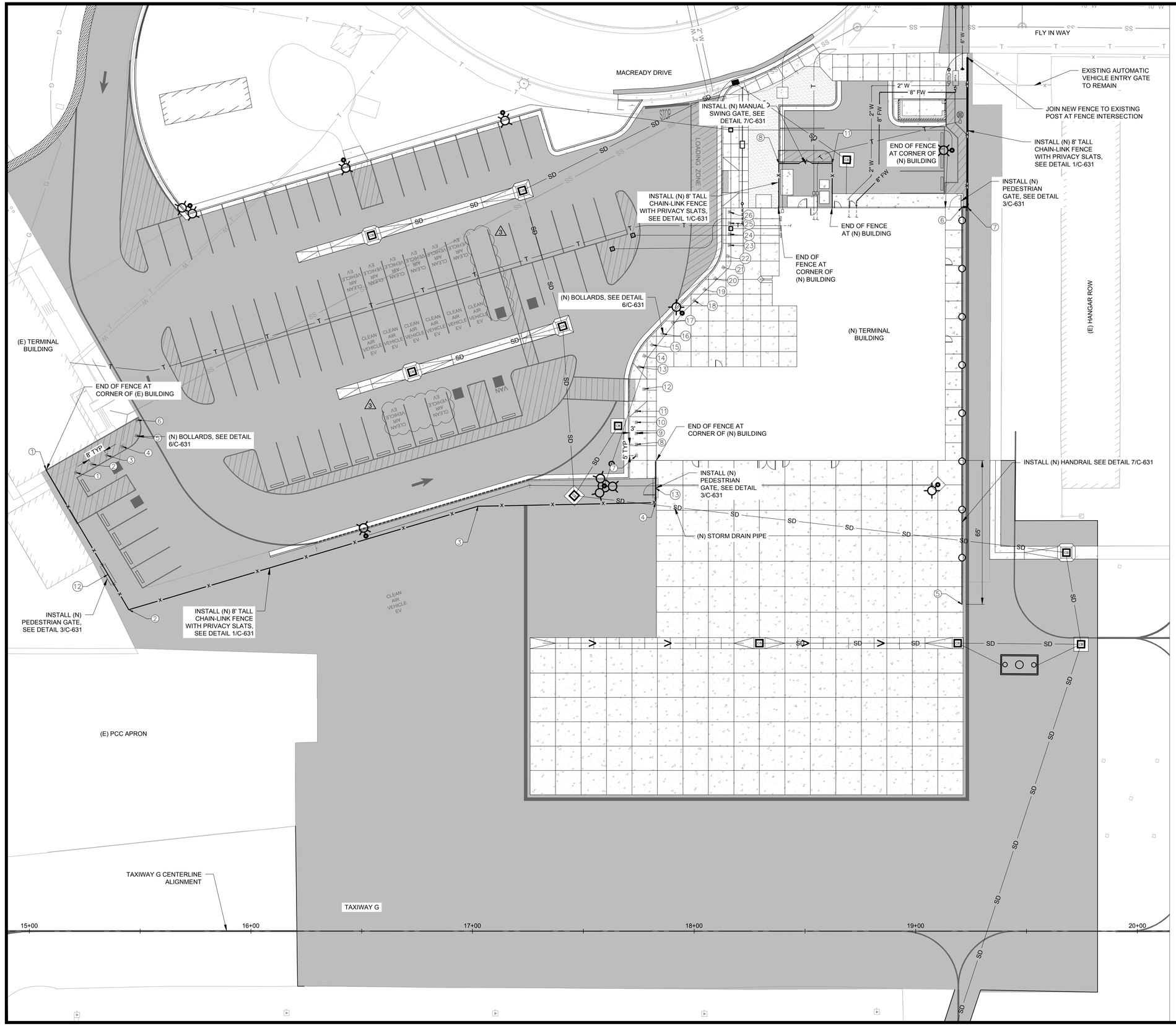
DESIGNED BY:	JL/RG/ML
DRAWN BY:	JD/JH/ML
CHECKED BY:	JL/RB/DS

DO NOT SCALE DRAWINGS

SHEET CONTENTS
UTILITY CONNECTION PLAN - 1

SHEET NO.
C-420



FENCE COORDINATES			
POINT NUMBER	STATION	OFFSET	ALIGNMENT
1	15+07.55	-208.252	TAXIWAY G CL ALIGNMENT
2	15+44.85	-145.133	TAXIWAY G CL ALIGNMENT
3	17+02.53	-191.818	TAXIWAY G CL ALIGNMENT
4	17+82.58	-193.442	TAXIWAY G CL ALIGNMENT
5	19+20.87	-147.500	TAXIWAY G CL ALIGNMENT
6	19+20.86	-326.906	TAXIWAY G CL ALIGNMENT
7	19+23.28	-326.901	TAXIWAY G CL ALIGNMENT
8	18+38.25	-346.593	TAXIWAY G CL ALIGNMENT
9	18+47.25	-346.593	TAXIWAY G CL ALIGNMENT
10	18+53.27	-346.609	TAXIWAY G CL ALIGNMENT
11	18+62.27	-346.593	TAXIWAY G CL ALIGNMENT
12	15+35.47	-161.008	TAXIWAY G CL ALIGNMENT
13	17+82.54	-200.041	TAXIWAY G CL ALIGNMENT

BOLLARD COORDINATES			
POINT NUMBER	STATION	OFFSET	ALIGNMENT
1	15+20.99	-207.053	TAXIWAY G CL ALIGNMENT
2	15+28.04	-210.842	TAXIWAY G CL ALIGNMENT
3	15+34.94	-214.822	TAXIWAY G CL ALIGNMENT
4	15+41.86	-218.820	TAXIWAY G CL ALIGNMENT
5	15+48.32	-223.708	TAXIWAY G CL ALIGNMENT
6	15+48.55	-230.726	TAXIWAY G CL ALIGNMENT
7	17+73.89	-214.697	TAXIWAY G CL ALIGNMENT
8	17+73.89	-219.697	TAXIWAY G CL ALIGNMENT
9	17+73.89	-224.697	TAXIWAY G CL ALIGNMENT
10	17+73.89	-229.697	TAXIWAY G CL ALIGNMENT
11	17+73.89	-234.697	TAXIWAY G CL ALIGNMENT
12	17+77.39	-244.697	TAXIWAY G CL ALIGNMENT
13	17+75.26	-254.697	TAXIWAY G CL ALIGNMENT
14	17+77.49	-259.697	TAXIWAY G CL ALIGNMENT
15	17+80.95	-264.697	TAXIWAY G CL ALIGNMENT
16	17+85.69	-269.697	TAXIWAY G CL ALIGNMENT
17	17+90.46	-274.697	TAXIWAY G CL ALIGNMENT
18	18+00.01	-284.697	TAXIWAY G CL ALIGNMENT
19	18+04.78	-289.697	TAXIWAY G CL ALIGNMENT
20	18+09.55	-294.697	TAXIWAY G CL ALIGNMENT
21	18+13.16	-299.697	TAXIWAY G CL ALIGNMENT
22	18+15.15	-304.697	TAXIWAY G CL ALIGNMENT
23	18+15.94	-309.697	TAXIWAY G CL ALIGNMENT
24	18+15.96	-314.697	TAXIWAY G CL ALIGNMENT
25	18+15.96	-319.697	TAXIWAY G CL ALIGNMENT
26	18+15.96	-324.697	TAXIWAY G CL ALIGNMENT

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MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
MERCED CA, 95341

ISSUED
03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

C&M NO.:	CP230060
M&H NO.:	R4665943-220849.05
DATE:	03.30.2023
DESIGNED BY:	JL/RG/ML
DRAWN BY:	JD/JH/ML
CHECKED BY:	JL/RB/DS

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SHEET CONTENTS
BOLLARD, HANDRAIL, AND FENCING PLAN

SHEET NO.
C-601

REGISTERED PROFESSIONAL ENGINEER
JEFFREY T. LEONARD
NO. 71754
Exp. date: 12/31/23
CIVIL
STATE OF CALIFORNIA

04-21-2023

X:\4665943\220849.05\TECH\CAD\CIVIL\DRAWINGS\C-601 FENCING DETAILS.DWG
4/21/2023 9:42:12 AM

NOTE: STATION AND OFFSET REFERENCE THE CENTER OF THE MARKING

MARKING COORDINATES			
POINT NUMBER	STATION	OFFSET	ALIGNMENT
1	19+44.05	0.059	TWY G CL
2	15+95.83	-0.003	TWY G CL
3	18+94.21	0.000	TWY G CL
4	18+94.22	25.026	TWY G CL
5	19+19.20	24.026	TWY G CL
6	19+44.20	25.062	TWY G CL
7	19+96.71	0.057	TWY G CL
8	20+46.67	0.126	TWY G CL
9	20+21.70	-25.009	TWY G CL
10	20+21.49	-107.190	TWY G CL
11	20+46.49	-107.256	TWY G CL
12	20+45.43	-132.223	TWY G CL
13	19+68.61	-132.403	TWY G CL
14	19+69.42	-157.390	TWY G CL
15	19+44.42	-157.605	TWY G CL
16	19+45.08	-225.634	TWY G CL
17	19+23.28	-326.906	TWY G CL
18	19+23.29	-59.583	TWY G CL
19	17+23.96	-59.580	TWY G CL
20	17+23.96	-192.253	TWY G CL
21	20+46.66	-24.874	TWY G CL
22	19+96.70	-24.943	TWY G CL
23	19+96.48	-107.343	TWY G CL
24	19+97.91	-132.252	TWY G CL

MARKING COORDINATES			
POINT NUMBER	STATION	OFFSET	ALIGNMENT
25	52+80.67	0.000	LANDSIDE
26	54+80.67	0.000	LANDSIDE
51	20+27.98	-142.762	TWY G CL
52	20+41.28	-126.754	TWY G CL
53	20+47.04	-110.700	TWY G CL
54	20+72.05	-132.209	TWY G CL
55	20+47.03	-107.292	TWY G CL
56	20+22.04	-110.783	TWY G CL
57	20+72.03	-107.209	TWY G CL
58	20+46.66	-24.874	TWY G CL
59	20+71.84	0.049	TWY G CL
60	20+71.76	-24.951	TWY G CL
61	20+46.59	24.967	TWY G CL
62	20+71.59	25.050	TWY G CL
63	20+46.38	89.802	TWY G CL
64	20+71.31	114.885	TWY G CL
65	20+71.38	89.885	TWY G CL
66	20+46.21	139.802	TWY G CL
67	20+71.21	139.884	TWY G CL
68	20+46.00	205.535	TWY G CL
69	20+20.91	230.452	TWY G CL
70	20+21.00	205.452	TWY G CL
71	20+70.91	230.617	TWY G CL
72	20+71.00	205.617	TWY G CL

MARKING COORDINATES			
POINT NUMBER	STATION	OFFSET	ALIGNMENT
73	20+51.30	226.931	TWY G CL
74	20+70.98	211.512	TWY G CL
75	20+65.15	244.609	TWY G CL
76	20+45.98	211.429	TWY G CL
77	15+45.42	-393.184	TWY G CL
78	15+41.05	-309.223	TWY G CL
79	15+40.97	-322.452	TWY G CL
80	15+48.56	-316.415	TWY G CL
81	15+61.32	-259.175	TWY G CL
82	15+69.18	-244.335	TWY G CL
83	15+87.82	-211.811	TWY G CL
84	16+24.64	-198.526	TWY G CL
85	17+24.33	-227.961	TWY G CL
86	17+40.78	-240.367	TWY G CL
87	17+45.53	-250.196	TWY G CL
88	17+46.86	-257.712	TWY G CL
89	17+22.51	-232.852	TWY G CL
90	16+07.48	-198.649	TWY G CL
91	15+51.06	-154.849	TWY G CL
92	15+30.33	-189.070	TWY G CL
93	17+63.68	-292.042	TWY G CL
94	17+68.59	-333.709	TWY G CL

APPLY FIRE LANE MARKING TO CURB

NEW FIRE LANE SIGN PER DETAIL TC-4A. SEE SHEET C-672.

APPLY WHITE THERMOPLASTIC TYPE 1 ARROW MARKING, TYP. SEE DETAIL 7/C-671

APPLY 4" WHITE THERMOPLASTIC MARKING, TYP.

NEW STOP SIGN PER DETAIL TC-4, SEE SHEET C-671

MACREADY DRIVE

APPLY (N) 1' WIDE STOP BAR MARKING

12" THERMOPLASTIC LETTERING, TYP.

LOADING ZONE

APPLY (N) STOP MARKING PER DETAIL TC-14, SEE SHEET C-671

LANDSIDE ALIGNMENT

APPLY 4" WHITE THERMOPLASTIC MARKING, TYP.

APPLY 6" WIDE THERMOPLASTIC MARKING

INSTALL WHEEL STOP, TYP. SEE DETAIL 8/C-671

(N) TERMINAL BUILDING

APPLY BLUE THERMOPLASTIC 4" MARKING, TYP.

(E) HANGAR BUILDING

JOIN (E) MARKING

JOIN (E) MARKING

JOIN (E) MARKING

APPLY FIRE LANE MARKING. SEE DETAIL 3/C-671

(E) TERMINAL BUILDING

NEW FIRE LANE SIGN PER DETAIL TC-4A. SEE SHEET C-672.

APPLY THERMOPLASTIC FIRE LANE MARKING TO CURB

NEW FIRE LANE SIGN PER DETAIL TC-4A. SEE SHEET C-671.

APPLY THERMOPLASTIC PARKING ISLAND MARKING, TYP. SEE DETAIL 4/C-671

APPLY RED RESTRICTED BOUNDARY MARKING SEE DETAIL 2/C-671

APPLY THERMOPLASTIC INTERNATIONAL SYMBOL OF ACCESSIBILITY, TYP. SEE DETAIL 6/C-671

22.5'
20'
10 SPACES @10' = 100.0'
8 SPACES @10' = 80.0'
10.0'
21 SPACES @10' = 210.0'
R55.0'
R12.3'
R119.9'
R32.5'
5'
4 SPACES @10' = 40'
R12.0'
14 SPACES @ 10 = 140.0'
10 SPACES @10' = 100.0'
30.3'
8.0'
12.0'
10'
R33'
15.4'
22' MIN
10.0'
4 SPACES @10' = 40.0'
20.0'
14.4'
5'
2 SPACES @ 10' = 20.0'
3 SPACES @ 10' = 30'
15.1'
5.3'
25.1'
R25.00'

MATCHLINE - SEE SHEET C-652

0 20 40

04-21-2023

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MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
MERCED CA, 95341

ISSUED
03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

CoM NO.: CP230060
M&H NO.: R4665943-220849.05
DATE: 03.30.2023
DESIGNED BY: JL/RG/ML
DRAWN BY: JD/JH/ML
CHECKED BY: JL/RB/DS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
MARKING PLAN - 1

SHEET NO.
C-651

REGISTERED PROFESSIONAL ENGINEER
JEFFREY T. LEONARD
NO. 71754
Exp. date: 12/31/23
CIVIL
STATE OF CALIFORNIA

X:\4665943\220849\05TECH\CAD\CIVIL\DRAWINGS\C-651 MARKING PLAN.DWG
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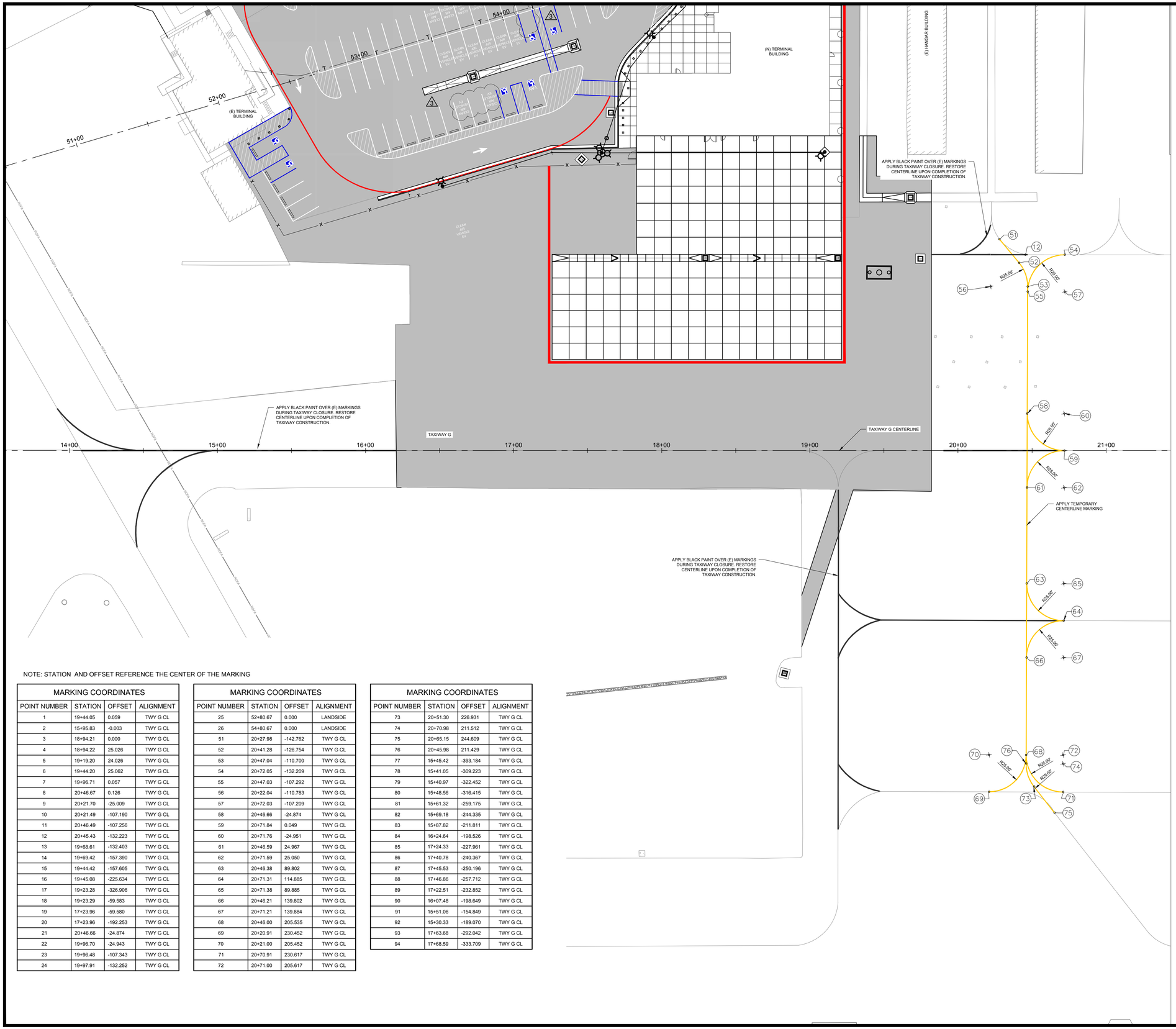

NOTE: STATION AND OFFSET REFERENCE THE CENTER OF THE MARKING

MARKING COORDINATES			
POINT NUMBER	STATION	OFFSET	ALIGNMENT
1	19+44.05	0.059	TWY G CL
2	15+95.83	-0.003	TWY G CL
3	18+94.21	0.000	TWY G CL
4	18+94.22	25.026	TWY G CL
5	19+19.20	24.026	TWY G CL
6	19+44.20	25.062	TWY G CL
7	19+96.71	0.057	TWY G CL
8	20+46.67	0.126	TWY G CL
9	20+21.70	-25.009	TWY G CL
10	20+21.49	-107.190	TWY G CL
11	20+46.49	-107.256	TWY G CL
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13	19+68.61	-132.403	TWY G CL
14	19+69.42	-157.390	TWY G CL
15	19+44.42	-157.605	TWY G CL
16	19+45.08	-225.634	TWY G CL
17	19+23.28	-326.906	TWY G CL
18	19+23.29	-59.583	TWY G CL
19	17+23.96	-59.580	TWY G CL
20	17+23.96	-192.253	TWY G CL
21	20+46.66	-24.874	TWY G CL
22	19+96.70	-24.943	TWY G CL
23	19+96.48	-107.343	TWY G CL
24	19+97.91	-132.252	TWY G CL

MARKING COORDINATES			
POINT NUMBER	STATION	OFFSET	ALIGNMENT
25	52+80.67	0.000	LANDSIDE
26	54+80.67	0.000	LANDSIDE
51	20+27.98	-142.762	TWY G CL
52	20+41.28	-126.754	TWY G CL
53	20+47.04	-110.700	TWY G CL
54	20+72.05	-132.209	TWY G CL
55	20+47.03	-107.292	TWY G CL
56	20+22.04	-110.783	TWY G CL
57	20+72.03	-107.209	TWY G CL
58	20+46.66	-24.874	TWY G CL
59	20+71.84	0.049	TWY G CL
60	20+71.76	-24.951	TWY G CL
61	20+46.59	24.967	TWY G CL
62	20+71.59	25.050	TWY G CL
63	20+46.38	89.802	TWY G CL
64	20+71.31	114.885	TWY G CL
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66	20+46.21	139.802	TWY G CL
67	20+71.21	139.884	TWY G CL
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69	20+20.91	230.452	TWY G CL
70	20+21.00	205.452	TWY G CL
71	20+70.91	230.617	TWY G CL
72	20+71.00	205.617	TWY G CL

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POINT NUMBER	STATION	OFFSET	ALIGNMENT
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78	15+41.05	-309.223	TWY G CL
79	15+40.97	-322.452	TWY G CL
80	15+48.56	-316.415	TWY G CL
81	15+61.32	-259.175	TWY G CL
82	15+69.18	-244.335	TWY G CL
83	15+87.82	-211.811	TWY G CL
84	16+24.64	-198.526	TWY G CL
85	17+24.33	-227.961	TWY G CL
86	17+40.78	-240.367	TWY G CL
87	17+45.53	-250.196	TWY G CL
88	17+46.86	-257.712	TWY G CL
89	17+22.51	-232.852	TWY G CL
90	16+07.48	-198.649	TWY G CL
91	15+51.06	-154.849	TWY G CL
92	15+30.33	-189.070	TWY G CL
93	17+63.68	-292.042	TWY G CL
94	17+68.59	-333.709	TWY G CL

0 30 60

REGISTERED PROFESSIONAL ENGINEER
JEFFREY T. LEONARD
NO. 71754
Exp. date: 12/31/23
CIVIL
STATE OF CALIFORNIA

04-21-2023

Mead & Hunt

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pragmatic PROFESSIONAL ENGINEERS
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San Jose, California 95131
Office | (408) 326-0815
pragmaticprofessionalengineers.com

MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
MERCED CA, 95341

ISSUED
03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

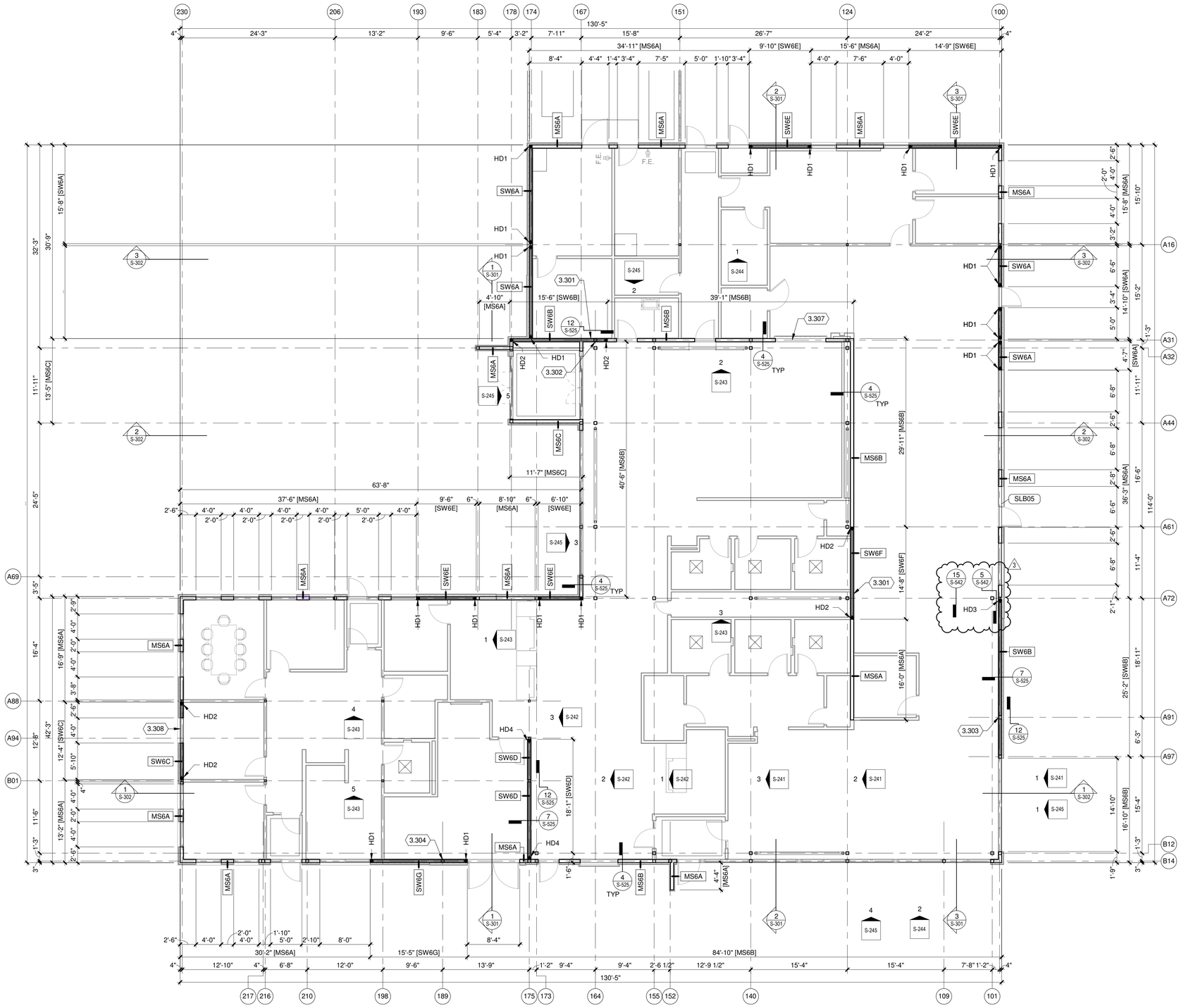
CoM NO.:	CP230060
M&H NO.:	R4665943-220849.05
DATE:	03.30.2023
DESIGNED BY:	JL/RG/ML
DRAWN BY:	JD/JH/ML
CHECKED BY:	JL/RB/DS

DO NOT SCALE DRAWINGS

SHEET CONTENTS
TEMPORARY MARKING PLAN

SHEET NO.
C-653

X:\4665943\220849.05\TECH\CAD\CIVIL\DRAWINGS\C-651 MARKING PLAN.DWG
4/21/2023 9:45:11 AM



TRUE NORTH PLAN NORTH

1 FIRST FLOOR STRUCTURAL WALL PLAN

1/8" = 1'-0"

STRUCTURAL WALL PLAN GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER FOR FINAL DECISION.
2. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
3. REFER TO SHEETS S-525, S-526, S-527 AND S-528 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
4. REFER TO SHEET S-601 AND S-602 FOR STRUCTURAL SCHEDULES.
5. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL STUD WIDTHS AND HEIGHTS. ALL INTERIOR WALL STUD THICKNESSES SHALL BE PER SSMA SPAN TABLE FOR 10PSF OUT OF PLANE LOAD. ONLY WALLS WITH PLYWOOD CAN BE ASSUMED BRACED ON THE PLYWOOD FACE. ALL OTHERS REQUIRE STUD BRACING AT 48" O.C. MAXIMUM. PROVIDE DOUBLE STUDS AT SUSPENDED ELEMENTS.

KEYED NOTES

3.301 SHEAR WALL SHEATHING TO TERMINATE AT UNDERSIDE OF LOW ROOF JOIST.

3.302 SIMPSON CMST14 STRAP ALONG SHEAR WALL BLOCKING EACH SIDE OF COLUMN. FASTEN STRAP TO BLOCKING WITH (25) #10 SCREWS EACH SIDE OF COLUMN. REFER TO DETAIL 11/S-525, SIMILAR.

3.303 SIMPSON CMSTC16 STRAP ALONG SHEAR WALL BLOCKING EACH SIDE OF COLUMN. FASTEN STRAP TO BLOCKING WITH (18) #10 SCREWS EACH SIDE OF COLUMN. REFER TO DETAIL 11/S-525.

3.304 SIMPSON CS20 STRAP ALONG SHEAR WALL BLOCKING EACH SIDE OF COLUMN. FASTEN STRAP TO BLOCKING WITH (4) #10 SCREWS EACH SIDE OF COLUMN. REFER TO DETAIL 11/S-525, SIMILAR.

3.307 PROVIDE OPENING JAMBS PER DETAIL 14/S-525 AND OPENING JAMB TOP CONNECTION TO HSS PER DETAIL 7/S-528.

3.308 FTAO STRAPPING REQUIRED. REFER TO DETAIL 9/S-527 AND FTAO METAL STUD SHEAR WALL STRAP SCHEDULE ON SHEET S-602.

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20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.05
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DESIGNED BY:	FLB
DRAWN BY:	ACT
CHECKED BY:	JAL

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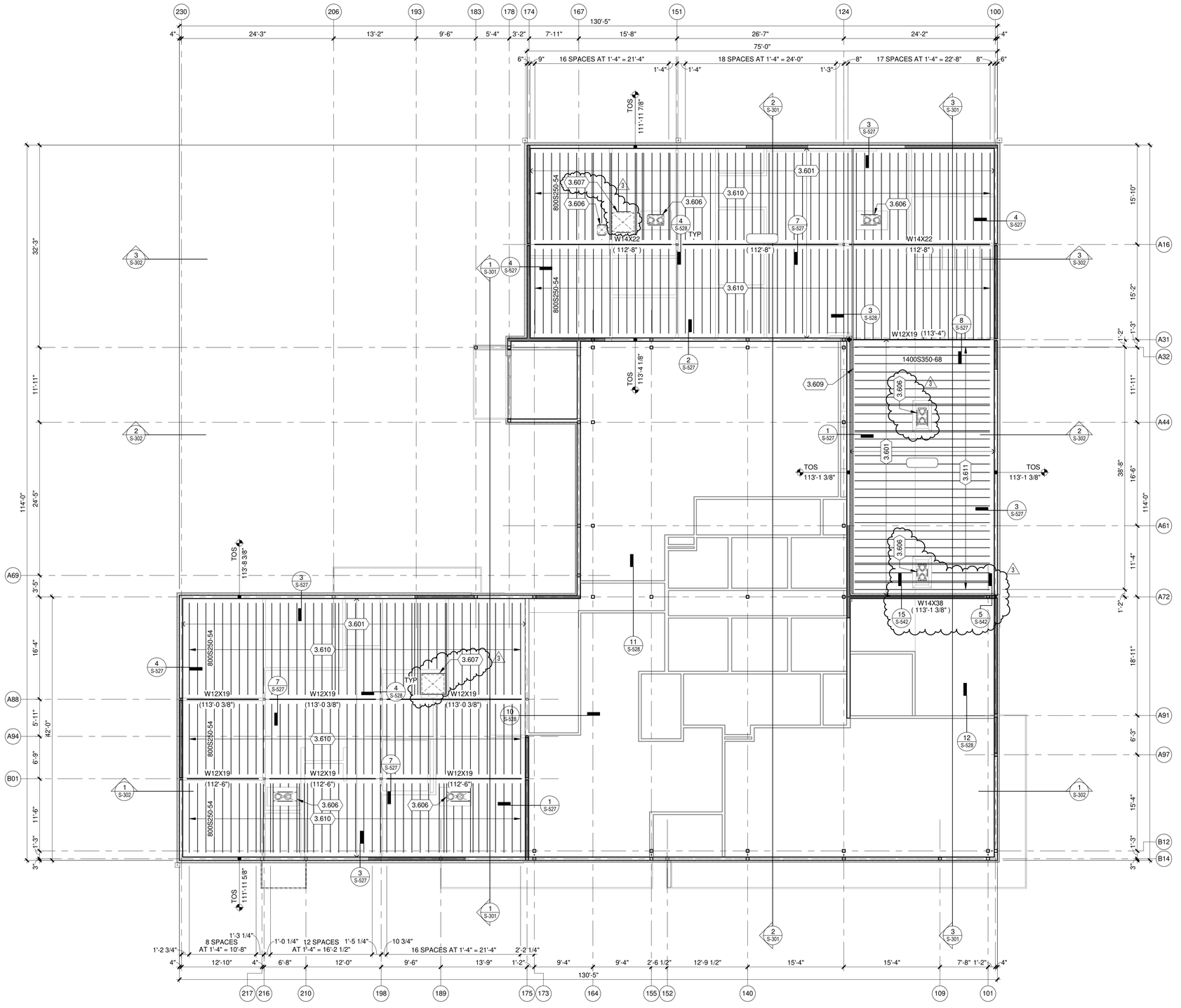
SHEET CONTENTS
FIRST FLOOR STRUCTURAL WALL PLAN

SHEET NO.:

S-121



TRUE NORTH PLAN NORTH

LOW ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN GENERAL NOTES

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
4. REFER TO SHEETS S-010 AND S-011 FOR ROOF LOADING PLANS AND SPECIAL JOIST LOADING REQUIREMENTS.
5. REFER TO SHEETS S-525, S-526, S-527, S-528, S-541 AND S-545 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
6. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.

KEYED NOTES

3.601 ROOF DIAPHRAGM SHALL CONFORM TO THE FOLLOWING:
- 15/32" STRUCTURAL I PLYWOOD SHEATHING WITH BLOCKED PANEL EDGES
- IN FIELD FASTENING - #10 SCREWS AT 12" OC
- EDGE SUPPORT FASTENING - #10 SCREWS AT 4" OC
- PERIMETER FASTENING - #10 SCREWS AT 4" OC

3.606 PROVIDE ADDITIONAL FRAMING AT ROOF DRAIN PENETRATIONS. REFER TO DETAILS 6/S-525 AND 10/S-525, VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION.

3.607 PROVIDE ADDITIONAL FRAMING AT ROOF ACCESS PENETRATIONS. REFER TO DETAIL 6/S-525, VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION.

3.609 PROVIDE CMSTC16 STRAP CONTINUOUS ALONG LENGTH OF DIAPHRAGM. PROVIDE ADDITIONAL ROOF JOIST AS REQUIRED LOCATED DIRECTLY BELOW STRAP ALONG NORTHERN LENGTH OF STRAP.

3.610 PROVIDE 800S250-54 COLD FORMED STEEL JOIST AT 1'-4" OC MAXIMUM SPACING.

3.611 PROVIDE 1400S350-68 COLD FORMED STEEL JOIST AT 1'-4" OC MAXIMUM SPACING.

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20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
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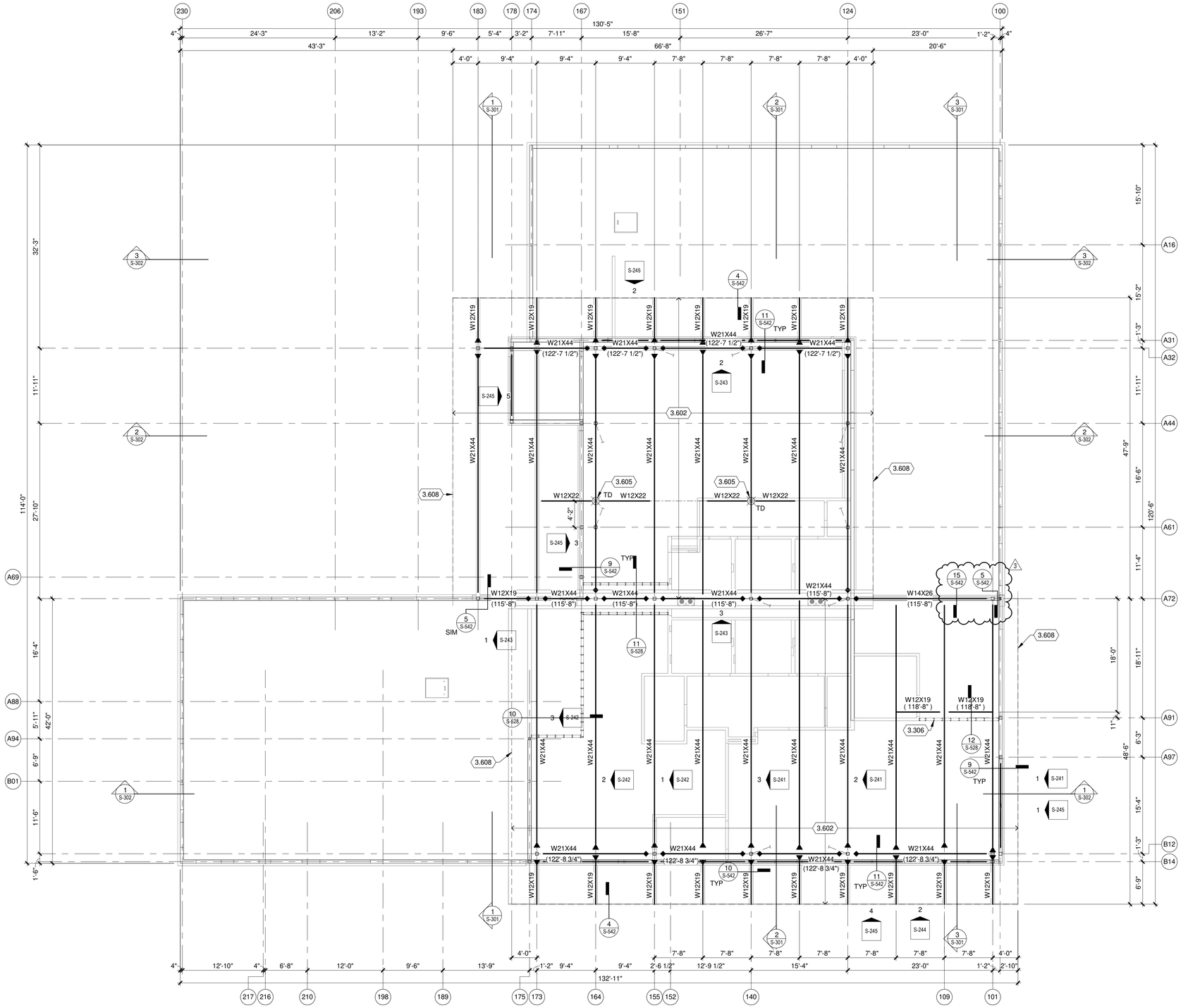
DRAWN BY:	ACT
CHECKED BY:	JAL

DO NOT SCALE DRAWINGS

SHEET CONTENTS
LOW ROOF FRAMING PLAN

SHEET NO.:

S-151



TRUE NORTH PLAN NORTH

1 HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN GENERAL NOTES

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
4. REFER TO SHEETS S-010 AND S-011 FOR ROOF LOADING PLANS AND SPECIAL JOIST LOADING REQUIREMENTS.
5. REFER TO SHEETS S-525, S-526, S-527, S-528, S-541 AND S-545 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
6. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.

KEYED NOTES

3.306 PROVIDE SOFFIT FRAMING.

3.602 ROOF DIAPHRAGM SHALL CONFORM TO THE FOLLOWING:
- METAL DECK - 1 1/2" TYPE B 18 GA/18GA CELLULAR ACOUSTICAL ROOF DECK
- SUPPORT FASTENING - 3/4" PUDDLE WELDS IN A 36/4 PATTERN
- PERIMETER FASTENING - 3/4" PUDDLE WELDS IN A 36/4 PATTERN
- SIDELAP FASTENING - 1 1/2" TOP ARC SEAM WELD AT 18" OC
- REFER TO ARCHITECTURAL FOR INSULATION REQUIREMENTS

3.605 PROVIDE ROOFTOP FALL ARREST SYSTEM TIE-OFF DAVIT, REFER TO DETAIL 6/S-542.

3.608 PROVIDE 3/8" BENT PLATE ALONG DECK EDGE. FASTEN BENT PLATE TO UNDERSIDE OF DECK. REFER TO ARCHITECTURAL DRAWINGS.

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20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

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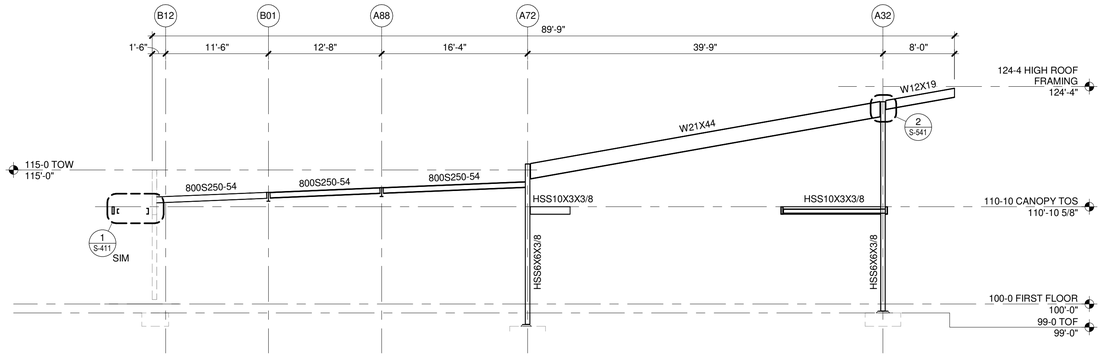
SHEET CONTENTS
HIGH ROOF FRAMING PLAN

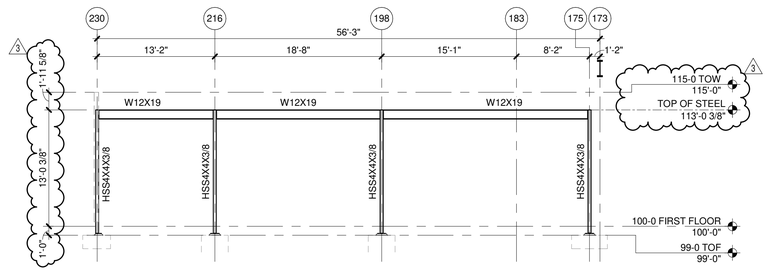
SHEET NO.:

S-152



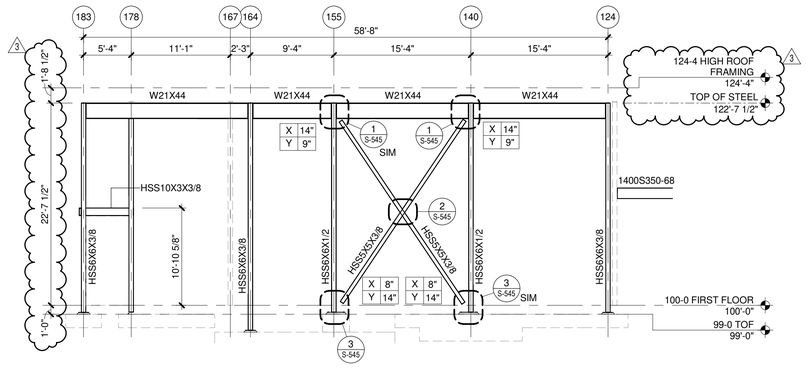
1 FRAMING ELEVATION AT GRID LINE 183 LOOKING WEST

1/8" = 1'-0"



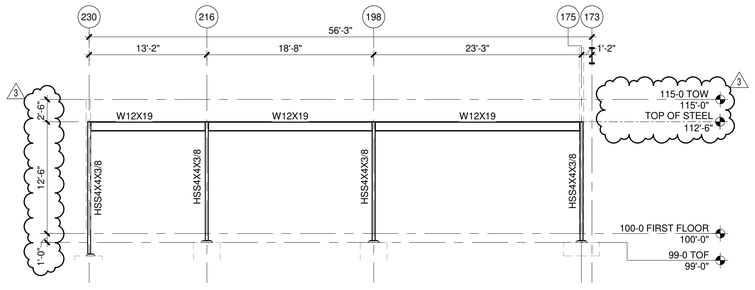
4 FRAMING ELEVATION AT GRID LINE A88 LOOKING NORTH

1/8" = 1'-0"



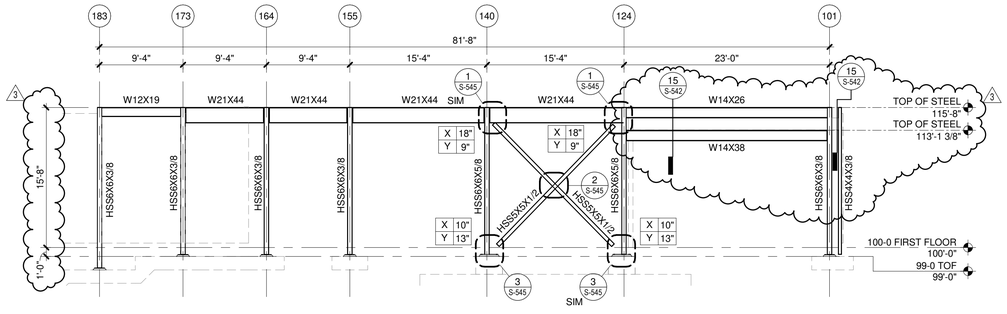
2 FRAMING ELEVATION AT GRID LINE A32 LOOKING NORTH

1/8" = 1'-0"



5 FRAMING ELEVATION AT GRID LINE B01 LOOKING NORTH

1/8" = 1'-0"



3 FRAMING ELEVATION AT GRID LINE A72 LOOKING NORTH

1/8" = 1'-0"

STRUCTURAL FRAMING ELEVATION GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
2. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
3. REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
4. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
5. ALL STRUCTURAL STEEL EXPOSED TO VEIW SHALL CONFORM WITH STANDARDS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.

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20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.05
DATE:	03.30.2023
DESIGNED BY:	FLB
DRAWN BY:	ACT
CHECKED BY:	JAL

DO NOT SCALE DRAWINGS

SHEET CONTENTS
FRAMING ELEVATIONS

SHEET NO.:

S-243

4/21/2023 2:48:08 PM C:\Revit Local\220849.05-S-R22_arne.thompson@meadhunt.com.rvt

STRUCTURAL FRAMING ELEVATION GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
2. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
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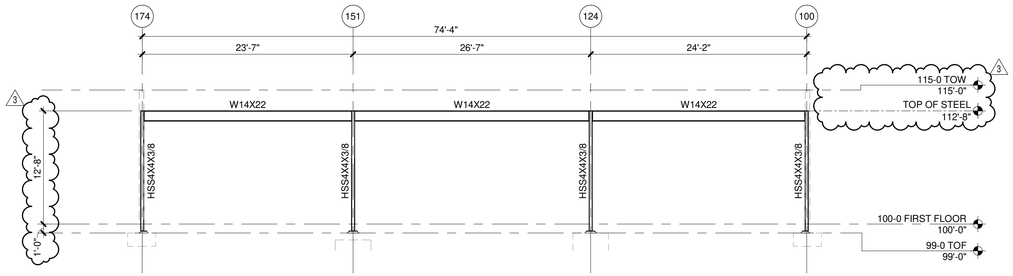
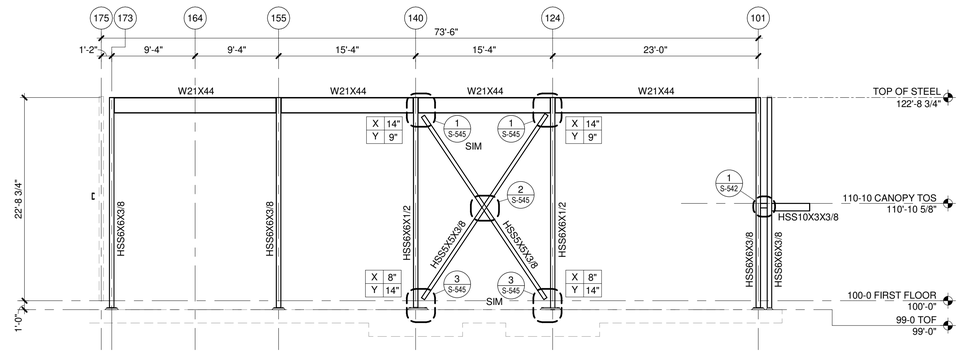
4. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
5. ALL STRUCTURAL STEEL EXPOSED TO VEIW SHALL CONFORM WITH STANDARDS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.



1 FRAMING ELEVATION AT GRID LINE A16 LOOKING NORTH
1/8" = 1'-0"



2 FRAMING ELEVATION AT GRID LINE B12 LOOKING NORTH
1/8" = 1'-0"

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MERCED, CA 95641

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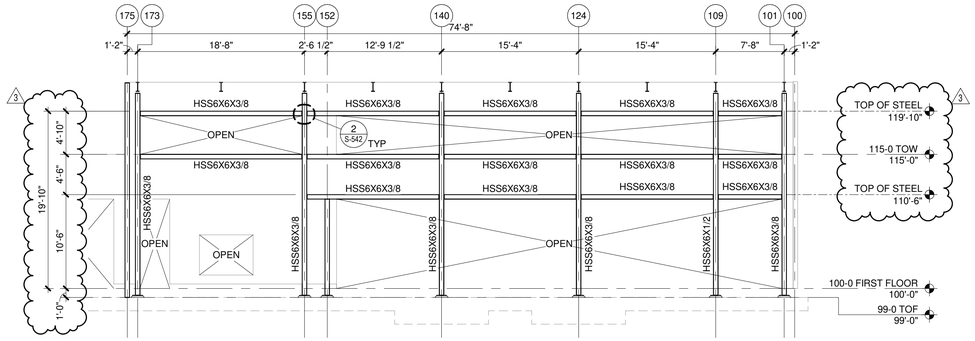
CHECKED BY:	JAL

DO NOT SCALE DRAWINGS

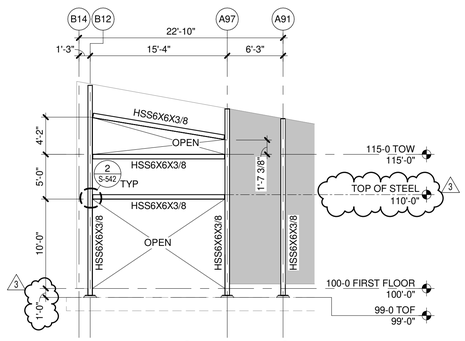
SHEET CONTENTS
FRAMING ELEVATIONS

SHEET NO.:
S-244



4 FRAMING ELEVATION AT GRID LINE B14 LOOKING NORTH

1/8" = 1'-0"



1 FRAMING ELEVATION AT GRID LINE 100 LOOKING WEST

1/8" = 1'-0"

STRUCTURAL FRAMING ELEVATION GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
2. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
3. REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
4. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
5. ALL STRUCTURAL STEEL EXPOSED TO VEIW SHALL CONFORM WITH STANDARDS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.

KEYED NOTES

3.305 TYPICAL COLD FORMED STEEL STUD WALL CONNECTION TO HSS BEAM, REFER TO DETAIL 6/S-528.

5 FRAMING ELEVATION AT GRID LINE 178 LOOKING EAST

1/8" = 1'-0"

3 FRAMING ELEVATION AT GRID LINE 167 LOOKING EAST

1/8" = 1'-0"

2 FRAMING ELEVATION AT GRID LINE A31 LOOKING SOUTH

1/8" = 1'-0"

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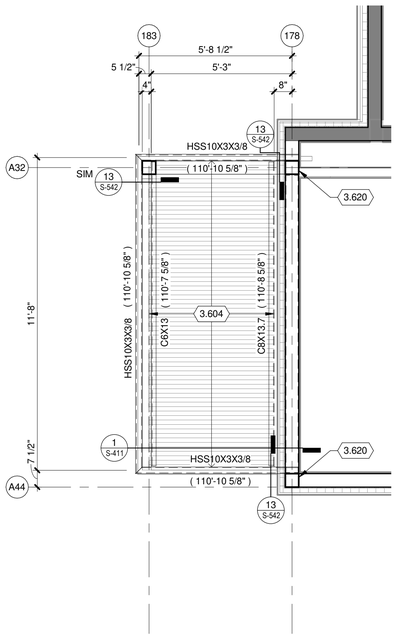
SHEET CONTENTS
FRAMING ELEVATIONS

SHEET NO.:

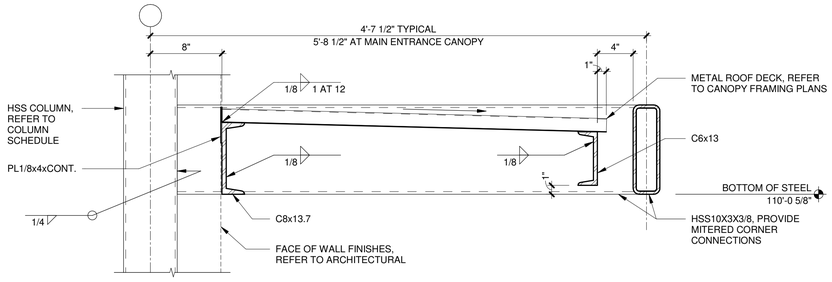
S-245



TRUE NORTH PLAN NORTH

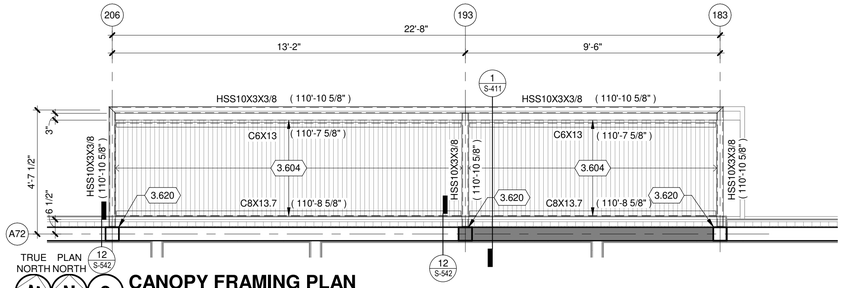
4 CANOPY FRAMING PLAN

3/8" = 1'-0"



1 CANOPY FRAMING SECTION

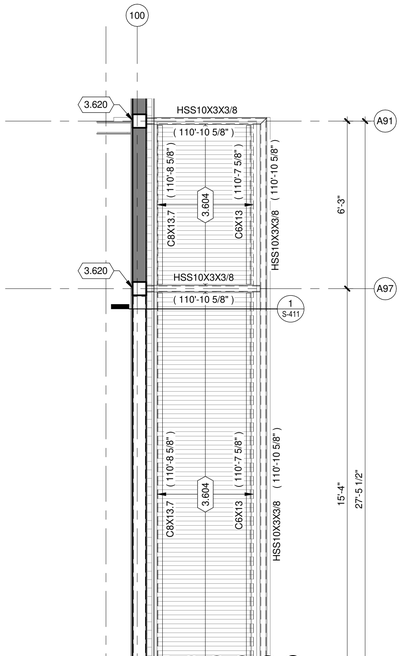
1 1/2" = 1'-0"

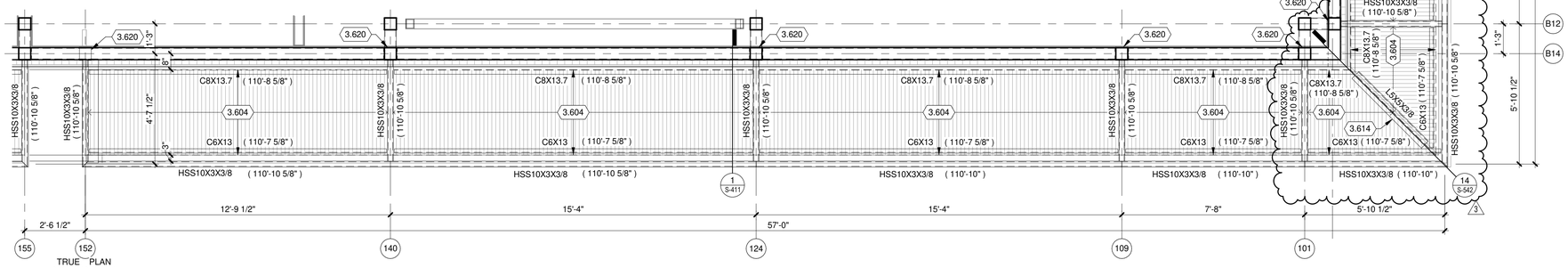


TRUE NORTH PLAN NORTH

2 CANOPY FRAMING PLAN

3/8" = 1'-0"

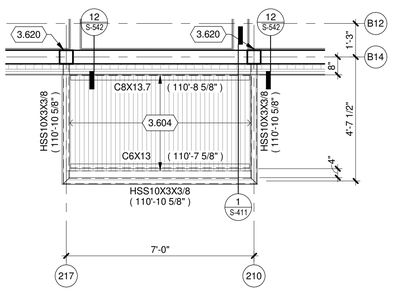




TRUE NORTH PLAN NORTH

5 CANOPY FRAMING PLAN

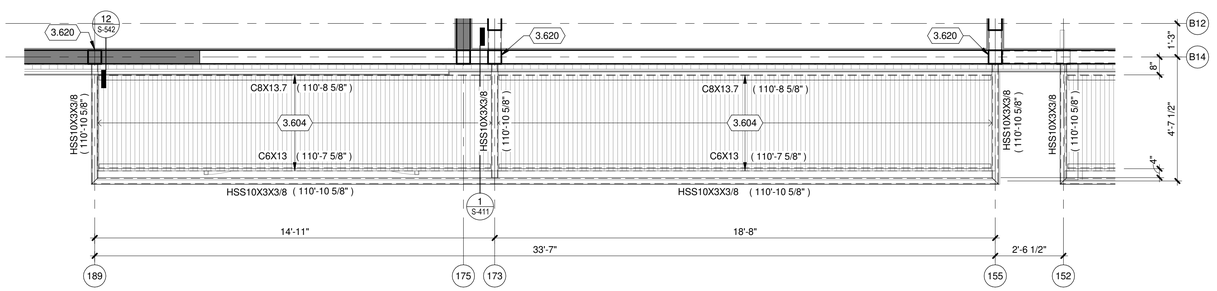
3/8" = 1'-0"



TRUE NORTH PLAN NORTH

6 CANOPY FRAMING PLAN

3/8" = 1'-0"



TRUE NORTH PLAN NORTH

3 CANOPY FRAMING PLAN

3/8" = 1'-0"

FRAMING PLAN GENERAL NOTES

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
4. REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.

KEYED NOTES

3.604 ROOF DIAPHRAGM SHALL CONFORM TO THE FOLLOWING:
- METAL DECK - 1 1/2" TYPE B 20 GAUGE ROOF DECK
- SUPPORT FASTENING - 5/8" PUDDLE WELDS IN A 36/4 PATTERN
- PERIMETER FASTENING - 5/8" PUDDLE WELDS IN A 36/4 PATTERN
- SIDELAP FASTENING - 1 1/2" TOP ARC SEAM WELD AT 36" OC

3.614 PROVIDE L5X5X3/8 TO MATCH DECK SLOPE. LOCATE DIRECTLY BELOW DECK JOINT TO PROVIDE 2" DECK BEARING EACH SIDE OF JOINT. FASTEN DECK TO ANGLE PER SUPPORT FASTENING. (3)

3.620 HSS COLUMN, REFER TO STRUCTURAL COLUMN SCHEDULE.

Mead & Hunt

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MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

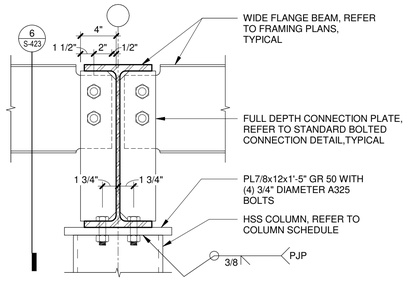
CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.05
DATE:	03.30.2023
DESIGNED BY:	FLB
DRAWN BY:	ACT
CHECKED BY:	JAL

DO NOT SCALE DRAWINGS

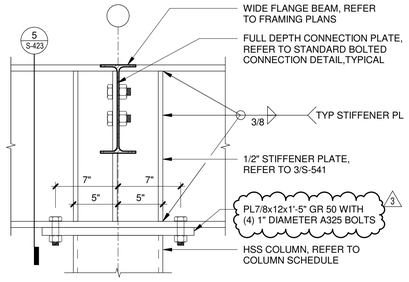
SHEET CONTENTS
ENLARGED CANOPY FRAMING PLANS

SHEET NO.:

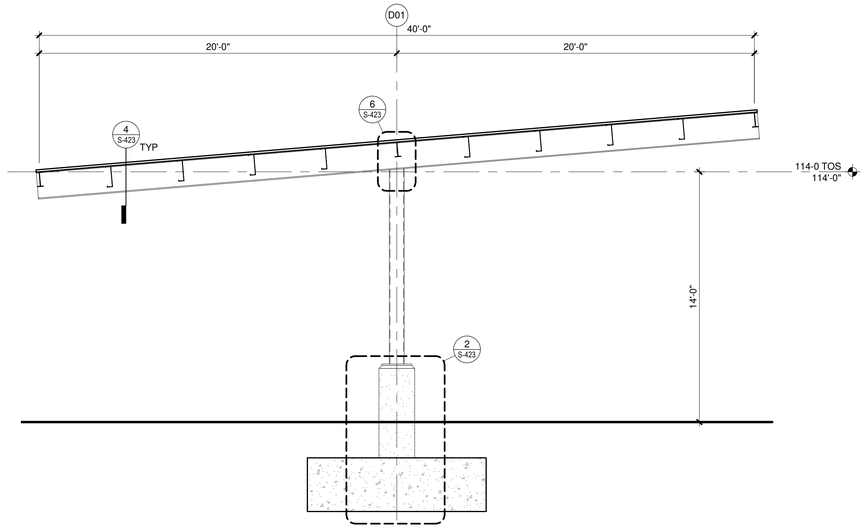
S-411



5 STEEL BEAM TO STEEL BEAM
1 1/2" = 1'-0"



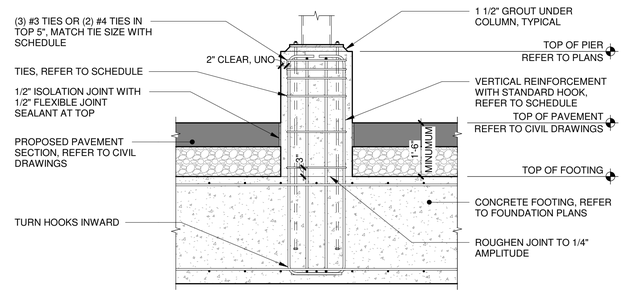
6 STEEL BEAM TO STEEL BEAM
1 1/2" = 1'-0"



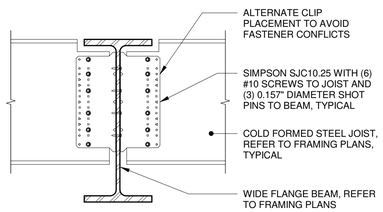
1 SHADE CANOPY SECTION
1/4" = 1'-0"

SHADE CANOPY SECTION GENERAL NOTES

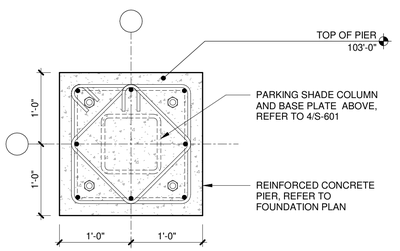
1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
4. REFER TO SHEET S-421 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
5. REFER TO SHEET S-421 FOR STRUCTURAL SCHEDULES.
6. REFER TO SHEETS S-541 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.



2 TYPICAL PIER SECTION
1/2" = 1'-0"



4 COLD FORMED STEEL ROOF JOIST TO WF BEAM
1 1/2" = 1'-0"



3 SHADE CANOPY PIER P24 PLAN
1" = 1'-0"

Mead & Hunt

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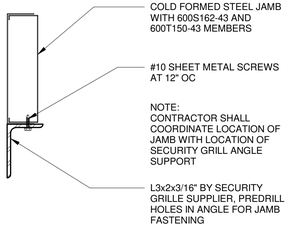
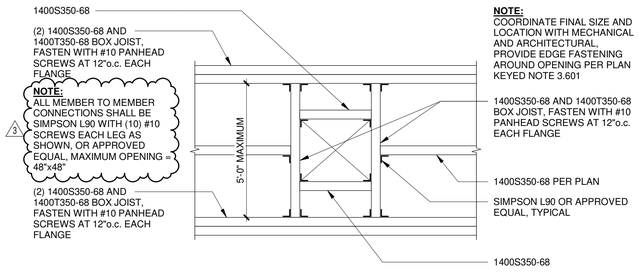
SHEET CONTENTS
SHADE CANOPY ALTERNATE BID 1 STRUCTURAL DETAILS

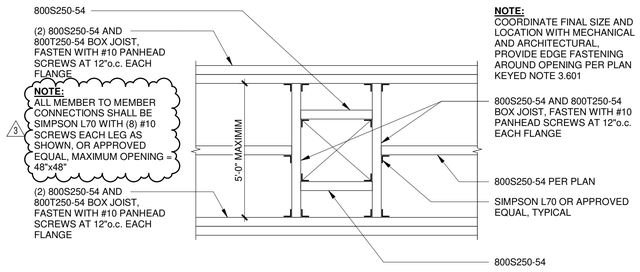
SHEET NO.:
S-423



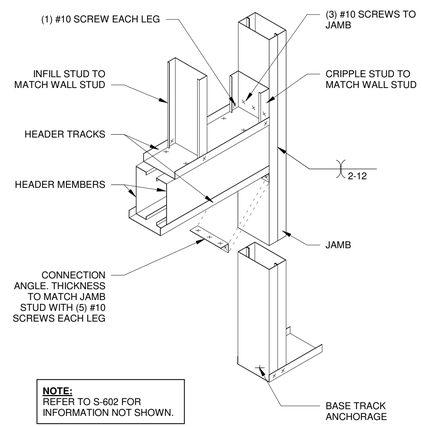
14 SECURITY GRILL ANGLE TO COLD FORMED STEEL JAMB
3" = 1'-0"



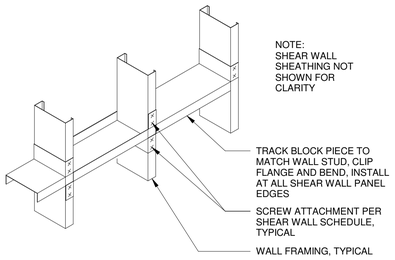
10 TYPICAL FRAMED ROOF OPENING AT 14" CFS FRAMING
3/4" = 1'-0"



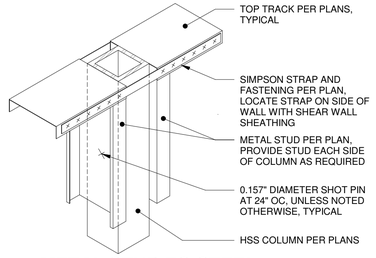
6 TYPICAL FRAMED ROOF OPENING AT 8" CFS FRAMING
3/4" = 1'-0"



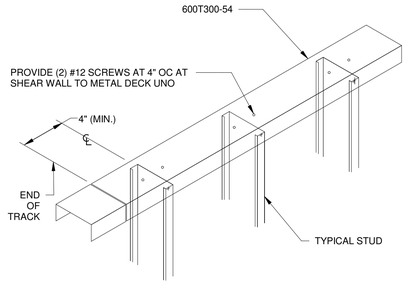
1 TYPICAL METAL STUD EXTERIOR DOOR OPENING
1" = 1'-0"



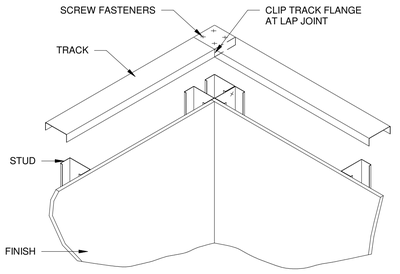
15 TYPICAL SHEAR WALL BLOCKING
1" = 1'-0"



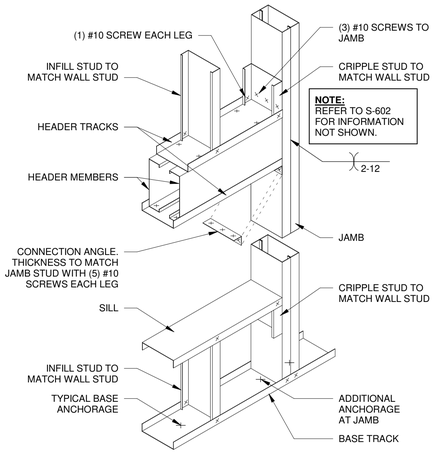
11 METAL STUD TO STEEL COLUMN TOP CONNECTION
1" = 1'-0"



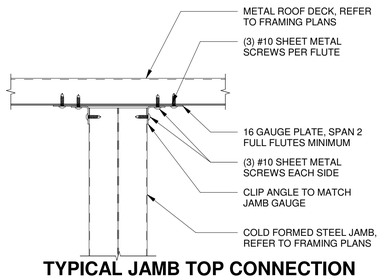
7 TOP OF WALL TRACK
3/4" = 1'-0"



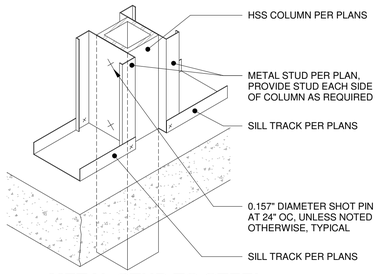
3 TYPICAL METAL STUD CORNER FRAMING
1" = 1'-0"



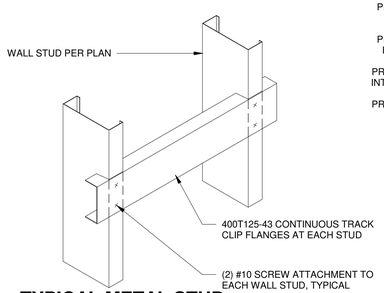
2 TYPICAL METAL STUD EXTERIOR WINDOW OPENING
1" = 1'-0"



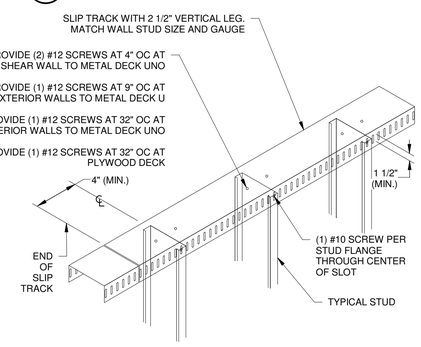
16 TYPICAL JAMB TOP CONNECTION PERPENDICULAR TO FLUTE
3" = 1'-0"



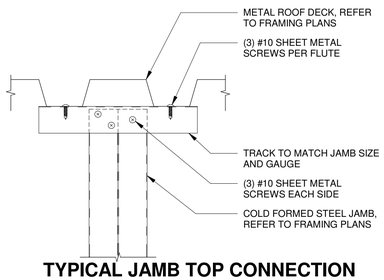
12 METAL STUD TO STEEL COLUMN BASE CONNECTION
1" = 1'-0"



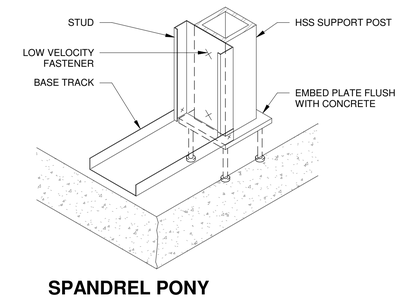
8 TYPICAL METAL STUD WALL BACKING - HEAVILY LOADED
1" = 1'-0"



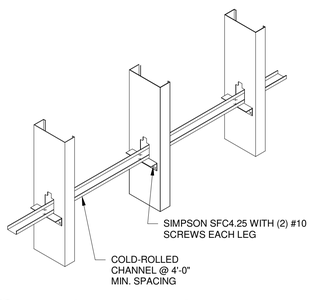
4 TYPICAL TOP OF WALL SLIP TRACK
3/4" = 1'-0"



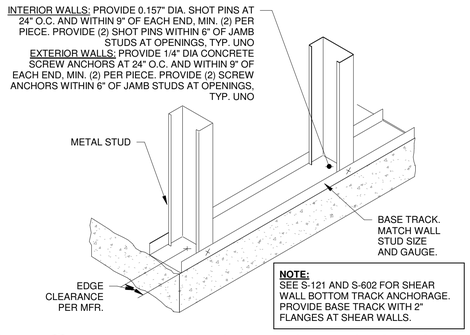
17 TYPICAL JAMB TOP CONNECTION PARALLEL TO FLUTE
3" = 1'-0"



13 SPANDREL PONY WALL WITH STEEL COLUMN
1" = 1'-0"



9 TYPICAL METAL STUD WALL BRIDGING
1" = 1'-0"



5 TYPICAL BOTTOM TRACK ANCHORAGE
1" = 1'-0"

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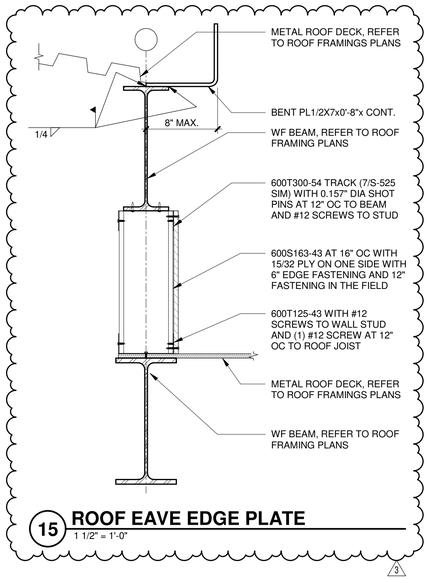
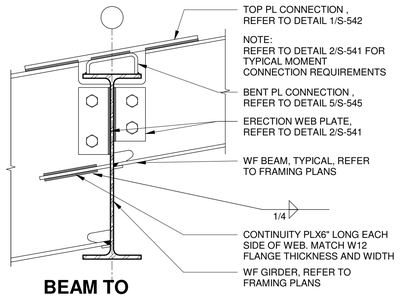
SHEET CONTENTS
METAL STUD WALL DETAILS

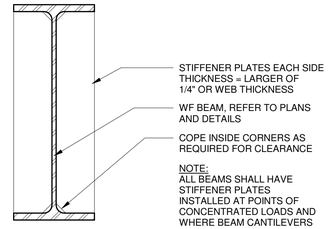
SHEET NO.:
S-525



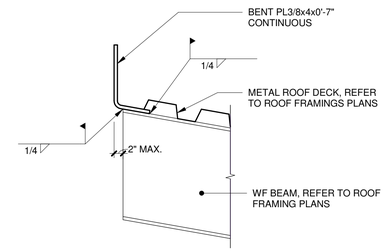
15 ROOF EAVE EDGE PLATE
1 1/2" = 1'-0"



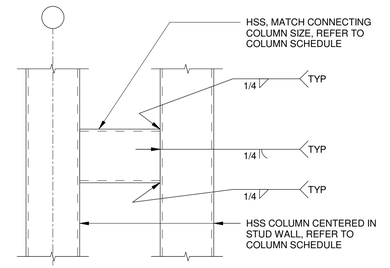
11 BEAM TO BEAM MOMENT CONNECTION
1 1/2" = 1'-0"



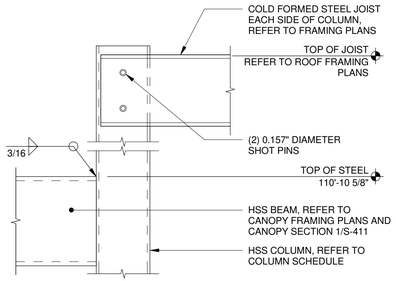
7 TYPICAL WF STIFFENER PLATE
1 1/2" = 1'-0"



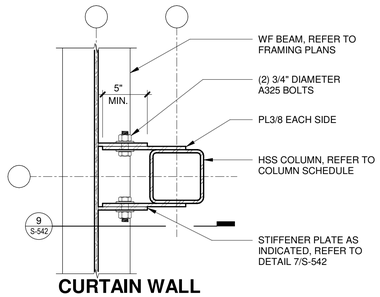
4 ROOF EAVE EDGE PLATE
1 1/2" = 1'-0"



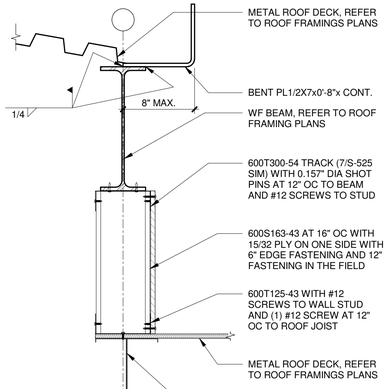
1 HSS COLUMN TO HSS COLUMN
1 1/2" = 1'-0"



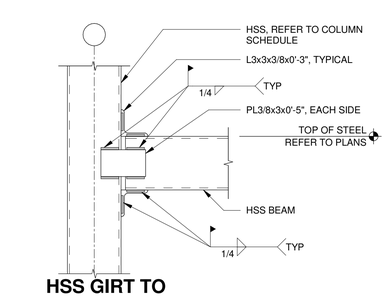
12 TOP OF HSS COLUMN CONNECTION
1 1/2" = 1'-0"



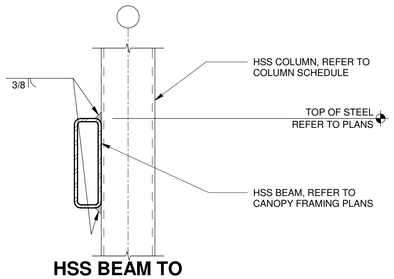
8 CURTAIN WALL FRAME TOP CONNECTION PLAN
1 1/2" = 1'-0"



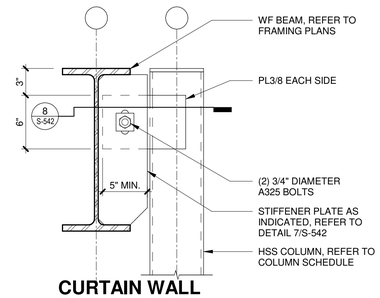
5 ROOF EAVE EDGE PLATE
1 1/2" = 1'-0"



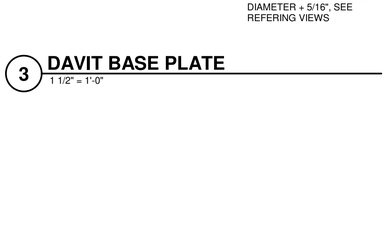
2 HSS GIRT TO HSS COLUMN CONNECTION
1 1/2" = 1'-0"



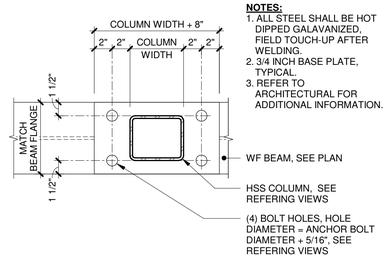
13 HSS BEAM TO HSS COLUMN CONNECTION
1 1/2" = 1'-0"



9 CURTAIN WALL FRAME TOP CONNECTION SECTION
1 1/2" = 1'-0"

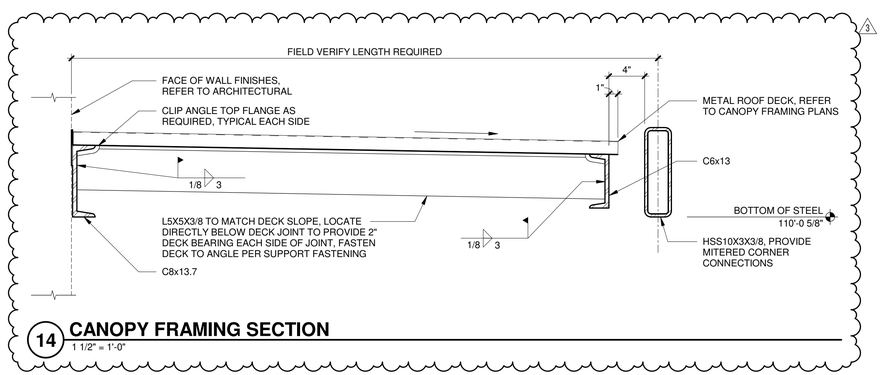


6 ROOFTOP FALL RESTRAINT SYSTEM DAVIT
3/4" = 1'-0"

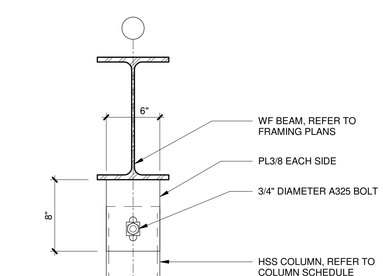


NOTES:
1. ALL STEEL SHALL BE HOT DIPPED GALVANIZED, FIELD TOUCH-UP AFTER WELDING.
2. 3/4 INCH BASE PLATE, TYPICAL.
3. REFER TO ARCHITECTURAL FOR ADDITIONAL INFORMATION.

3 DAVIT BASE PLATE
1 1/2" = 1'-0"



14 CANOPY FRAMING SECTION
1 1/2" = 1'-0"



10 CURTAIN WALL FRAME TOP CONNECTION ALTERNATE SECTION
1 1/2" = 1'-0"

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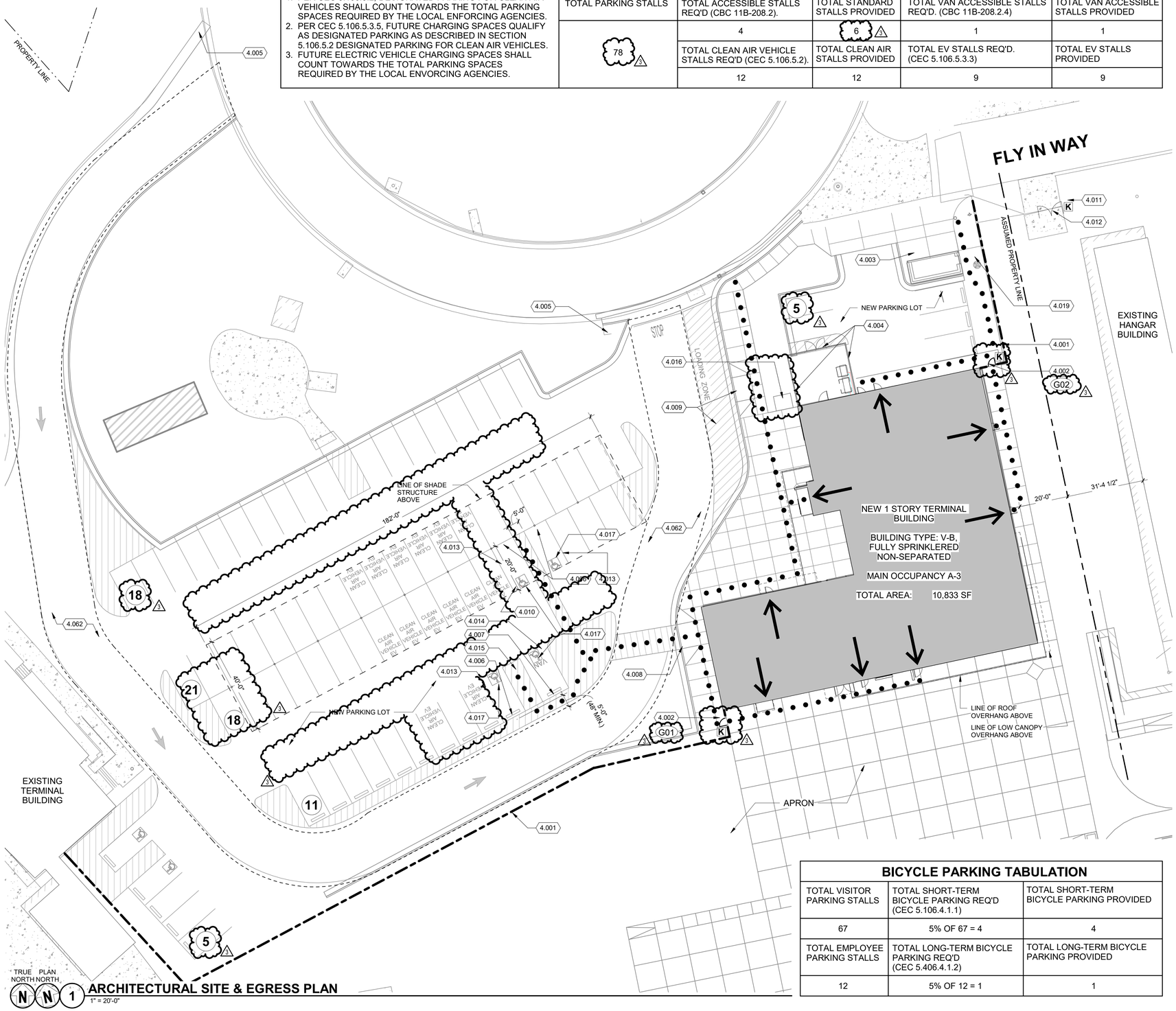
SHEET CONTENTS
FRAMING DETAILS

SHEET NO.:
S-542

NOTE:
1. PER CEC 5.106.5.2, DESIGNATED PARKING FOR CLEAN AIR VEHICLES SHALL COUNT TOWARDS THE TOTAL PARKING SPACES REQUIRED BY THE LOCAL ENFORCING AGENCIES.
2. PER CEC 5.106.5.3.5, FUTURE CHARGING SPACES QUALIFY AS DESIGNATED PARKING AS DESCRIBED IN SECTION 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES.
3. FUTURE ELECTRIC VEHICLE CHARGING SPACES SHALL COUNT TOWARDS THE TOTAL PARKING SPACES REQUIRED BY THE LOCAL ENVORCING AGENCIES.

VEHICULAR PARKING TABULATION

TOTAL PARKING STALLS	TOTAL ACCESSIBLE STALLS REQ'D (CBC 11B-208.2).	TOTAL STANDARD STALLS PROVIDED	TOTAL VAN ACCESSIBLE STALLS REQ'D. (CBC 11B-208.2.4)	TOTAL VAN ACCESSIBLE STALLS PROVIDED
78 (1)	4	6 (1)	1	1
	TOTAL CLEAN AIR VEHICLE STALLS REQ'D (CEC 5.106.5.2).	TOTAL CLEAN AIR STALLS PROVIDED	TOTAL EV STALLS REQ'D. (CEC 5.106.5.3.3)	TOTAL EV STALLS PROVIDED
	12	12	9	9



TRUE NORTH PLAN NORTH

ARCHITECTURAL SITE & EGRESS PLAN

1" = 20'-0"

BICYCLE PARKING TABULATION

TOTAL VISITOR PARKING STALLS	TOTAL SHORT-TERM BICYCLE PARKING REQ'D (CEC 5.106.4.1.1)	TOTAL SHORT-TERM BICYCLE PARKING PROVIDED
67	5% OF 67 = 4	4
TOTAL EMPLOYEE PARKING STALLS	TOTAL LONG-TERM BICYCLE PARKING REQ'D (CEC 5.406.4.1.2)	TOTAL LONG-TERM BICYCLE PARKING PROVIDED
12	5% OF 12 = 1	1

SITE GENERAL NOTES:

1. REFER TO SHEETS G-011 AND G-021 FOR CODE ANALYSIS AND BUILDING DATA.
2. ALL EXIT DOORS AND GATES SHALL BE READILY OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT PER CBC SECTION 1010.1.9.
3. GATE HARDWARE AND OTHER OPERATING DEVICES SHALL BE MOUNTED PER CBC SECTIONS 1010.1.9.1 AND 1010.1.9.2.
4. EXIT GATES SHALL SWING IN THE DIRECTION OF THE PATH OF EXIT TRAVEL WHERE THE AREA SERVED HAS AN OCCUPANT LOAD OF 50 OR MORE PER CBC SECTION 1010.1.2.1.
5. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES WITH THE DOOR OR GATE OPEN AT 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP PER CBC SECTION 11B-404.2.3.
6. HAND-ACTIVATED GATE OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FINISH FLOOR OR GROUND PER CBC SECTION 11B-404.2.7.
7. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS PER CBC SECTION 11B-309.4.
8. IF A GATE HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE GATE WILL TAKE AT LEAST 5 SECONDS TO MOVE TO 12 DEGREES FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE GATE PER CBC SECTION 11B-404.2.8.
9. THERE SHALL BE A LEVEL AND CLEAR FLOOR LANDING ON EACH SIDE OF A DOOR OR GATE. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE PER CBC SECTION 11B-404.2, 11B-404.2.4.1, AND 11B-404.2.4.4.
10. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A GATE SHALL NOT EXCEED 5 POUNDS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO RETRACT LATCH BOLTS OR DESINGAGE OTHER DEVICES THAT HOLD THE GATE IN A CLOSED POSITION PER CBC SECTION 11B-404.2.9.
11. THE MAXIMUM UNLATCHING FORCE APPLIED TO PANIC HARDWARE SHALL NOT EXCEED 5 POUNDS WHEN APPLIED IN THE DIRECTION OF TRAVEL PER CBC SECTION 10.10.1.3 AND 11B-309.4.
12. PANIC HARDWARE WHERE INSTALLED SHALL BE LISTED IN ACCORDANCE WITH UL 305. FIRE EXIT HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL10C AND UL 305. THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS PER CBC 1010.1.10.1.
13. THE BOTTOM 10 INCHES OF ALL GATES EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE GATE TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION PER CBC SECTION 11B-404.2.10.
14. CONTRACTOR SHALL REPLACE, RECONSTRUCT, AND REPAIR ALL EXISTING WORK THAT IS IMPACTED, DAMAGED OR DESTROYED AS A RESULT OF ANY CONTRACTOR WORK INCLUDING BUT NOT LIMITED TO HARDSCAPE SIDEWALKS, LANDSCAPING, STRUCTURES AND UTILITIES ALL TO THE SATISFACTION OF THE OWNER. TREES REMOVED TO ENABLE INSTALLATION OF WORK AND NEW INFRASTRUCTURE / UTILITIES SHALL BE REPLACED WITH LIKE SPECIES USING 24" BOX SPECIFICATIONS.
15. WHERE ASPHALT OR CONCRETE IS BEING REPATCHED, CONTRACTOR SHALL PROVIDE EVEN AND STRAIGHT LINE CUTS WITH 2 FOOT STRAIGHT SLURRY SEAL SURFACE PATCH ON BOTH SIDES OF CUT.
16. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC. AND TO PREVENT HAZARDS TO PERSONNEL AND OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
17. REFER TO FIRE ACCESS PLAN ON SHEET G-022 FOR FIRE DEPARTMENT ACCESS.
18. REFER TO SHEET A-601 FOR INFORMATION PERTAINING TO GATES.

LEGEND:

- NEW TERMINAL BUILDING
- EXISTING BUILDING
- FIRE LANE, REFER TO SHEET G-022
- (#) QUANITY OF PARKING STALLS IN ROW
- PROPERTY LINE
- EV CLEAN AIR / ELECTRIC VEHICLE PARKING STALL SEE PARKING TABULATION
- ASSUMED PROPERTY LINE
- K KNOX BOX
- LIMIT OF WORK - DESCRIBES IN GENERAL, THE LOCATION OF THE PROJECT WORK
- G# GATE, SEE GATE SCHEDULE ON A-601 (3)
- ACCESSIBLE ROUTE (PATH OF TRAVEL) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL OF 2% MAX UNLESS OTHERWISE INDICATED. PATH OF TRAVEL (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80 INCHES MINIMUM (CBC 2019 SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4 INCHES PROJECTION FROM WALL AND ABOVE 27 INCHES AND LESS THAN 80 INCHES (CBC 2019 SECTION 11B-307.2). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR SHALL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 2019 SECTION 11B-402 AND 11B-403.

KEYED NOTES

4.001 NEW FENCE, REFER TO CIVIL DRAWINGS

4.002 NEW 3'-0" WIDE PEDESTRIAN GATE, REFER TO SITE GENERAL NOTES 6 AND 8 AND CIVIL DRAWINGS.

4.003 NEW TRASH ENCLOSURE, REFER TO CIVIL DRAWINGS

4.004 NEW MECHANICAL YARD ENCLOSURE, REFER TO S-401

4.005 EXISTING TOW AWAY SIGN, REFER TO NOTE 4 OF TC-8A/C-671

4.006 ACCESSIBLE STALL SIGN, REFER TO 5/C-671

4.007 VAN ACCESSIBLE STALL SIGN, REFER TO 5/C-671

4.008 ACCESSIBLE CURB RAMP, REFER TO 3/C-252

4.009 LOADING ZONE AND ACCESSIBLE CURB RAMP, REFER TO 2/C-252

4.010 ACCESSIBLE CLEAN AIR VECHICLE AND EV STALL, FOR STRIPING REFER TO TC-84 ON C-671

4.011 EXISTING FENCE

4.012 EXISTING VEHICULAR GATE

4.013 STANDARD ACCESSIBLE STALL, FOR STRIPING REFER TO TC-84 ON C-671 AND C-651

4.014 VAN ACCESSIBLE STALL, FOR STRIPING REFER TO TC-84 ON C-671 AND C-651

4.015 VAN ACCESSIBLE UNLOADING SPACE, FOR STRIPING REFER TO TC-84 ON C-671 AND C-651

4.016 BICYCLE PARKING, REFER TO C-001

4.017 INTERNATIONAL SYMBOL OF ACCESSIBILITY, REFER TO 6/C-671

4.019 NEW TIP-DOWN POLE WITH ANTENNA, REFER TO CIVIL AND STRUCTURAL DRAWINGS

4.062 FIRE ACCESS LANE

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MERCED YOSEMITE REGIONAL AIRPORT
TERMINAL REPLACEMENT PROJECT 2023

PARCEL APN# 059-300-025-000
20 MACREADY DRIVE MERCED, CA 95341

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

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DRAWN BY:	MP/LD/CM
CHECKED BY:	MP/JC

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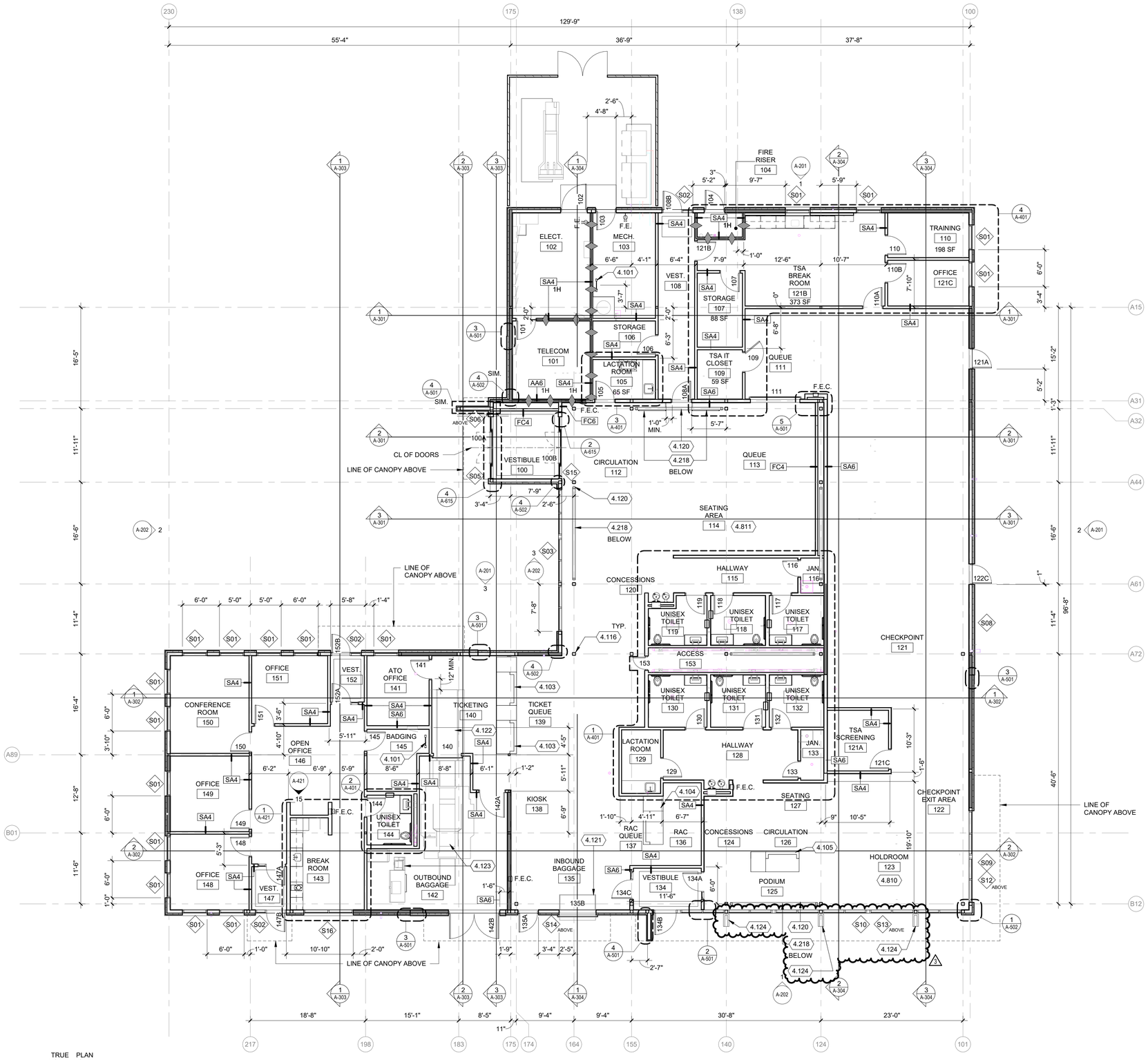
SHEET CONTENTS
ARCHITECTURAL SITE & EGRESS PLAN

SHEET NO.:

A-005



TRUE NORTH PLAN NORTH

1 FIRST FLOOR PLAN

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN = 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. ALL INTERIOR DIMENSIONS ARE FROM CENTER OF STUD, UNLESS NOTED OTHERWISE.
4. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
5. REFERENCE SHEET G-011 AND G-021 FOR ALL CODE, FIRE RATING, AND SEPARATION REQUIREMENTS.
6. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILINGS, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PREP WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
7. GENERAL CONTRACTOR SHALL PATCH ALL FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. ALL PENETRATIONS SHALL MEET REQUIRED FIRE RATINGS.
8. COORDINATE THE INSTALLATION OF ALL OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
9. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
10. EXISTING AND INFILL CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES, TYPICAL. PROVIDE ARDEX OR EQUAL LEVELING CONCRETE TO PROVIDE A SMOOTH WALKABLE AREA.
11. ALL RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
12. SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
13. REFERERNCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TAGS NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND AROUND DOORWAYS SHOWN.
14. REFERENCE SHEET A-700'S FOR FINISHES PLAN.
15. REFERENCE SHEET A-800'S FOR SIGNAGE LAYOUTS AND COORDINATION REQUIREMENTS.
16. REFERENCE SHEET A-900'S FOR FURNITURE AND EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.
17. REFERENCE SHEET A-002 FOR EXTERIOR ASSEMBLIES WHICH ARE FURTHER SHOWN ON BUILDING AND WALL SECTIONS ON A-300'S.

LEGEND - PLAN SYMBOLS

- 4.XXX — KEYED NOTE IDENTIFICATION
- ROOM NAME / 000 — ROOM NAME AND NUMBER
- XXX / X — WALL TYPE IDENTIFICATION, REFER TO A-002
- W? — WINDOW IDENTIFICATION
- 101A — DOOR IDENTIFICATION
- F.E. — FIRE EXTINGUISHER, TYPE: 5LB, 2A:10B:C, SURFACE MOUNT
- F.E.C. — FIRE EXTINGUISHER CABINET, SEMI-RECESSED AND FIRE EXTINGUISHER, TYPE: 5LB, 2A:10B:C, REFER TO 13/A-541
- 1-HOUR FIRE RATED PARTITION (FIRE BARRIER)
- METAL FRAMED PARTITION, REFER TO A-002 FOR WALL TYPE
- EXTERIOR WALL ASSEMBLY, REFER TO BUIDLING SECTIONS, WALL SECTIONS AND A-002 FOR TYPE

KEYED NOTES

4.101 METAL ROOF ACCESS LADDER, REFER TO 3/A-511

4.103 CUSTOM TICKETING PODIUM, REFER TO 7/A-421

4.104 CUSTOM RENTAL CAR PODIUM, REFER TO 7/A-421

4.105 CUSTOM GATE PODIUM, REFER TO 6/A-421

4.116 STRUCTURAL STEEL COLUMN, AESS-3; PAINT PT-3

4.120 STRUCTURAL STEEL BRACED FRAME, AESS-3

4.121 INBOUND BAGGAGE SLIDE, REFER TO BHS DRAWINGS

4.122 OUTBOUND BAGGAGE CONVEYOR, REFER TO BHS DRAWINGS

4.123 BAGGAGE SCREENING EQUIPMENT BY OTHERS

4.124 SPLASH BLOCK

4.218 FLOOR MOUNTED 1-1/2" X 1-1/2" STAINLESS STEEL PIPE GUARD, WALL BRACED. POSITIONED FOR 6'-8" MIN. HEADROOM. MAINTAIN 12" DOOR CLEARANCE ON LATCH SIDE.

4.810 HOLDROOM FURNITURE BY OWNER SHALL ACCOMMODATE ACCESSIBLE SEATING PER CBC 2019, CHAPTER 11B

4.811 SEATING AREA FURNITURE BY OWNER SHALL ACCOMMODATE ACCESSIBLE SEATING PER CBC 2019, CHAPTER 11B

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LIC. # 35197
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SEPTEMBER 30, 2021
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MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

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DRAWN BY:	MP/LD/CM
CHECKED BY:	MP/JC

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SHEET CONTENTS
FIRST FLOOR PLAN

SHEET NO.:
A-101

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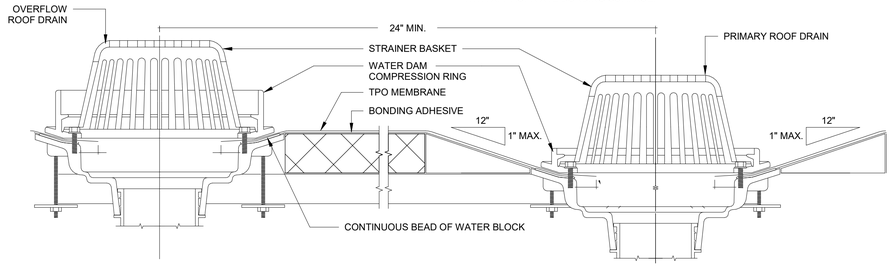
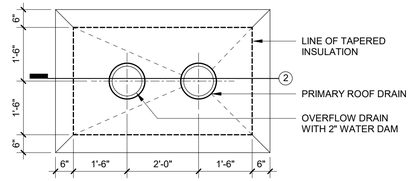
NOTE:
1. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" BEYOND CLAMPING RING AND SHOULD BE LARGER THAN THE DIAMETER OF THE LEADER PIPE.
2. INSULATION ADJACENT TO DRAIN TO BE APPROPRIATELY ELEVATED. ELEVATE INSULATION WITH APPROPRIATE BONDING SURFACE.

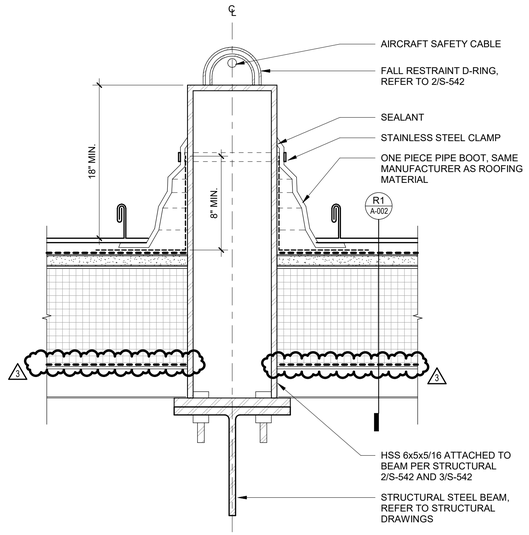


2 ROOF AND OVERFLOW DRAIN SECTION
3" = 1'-0"

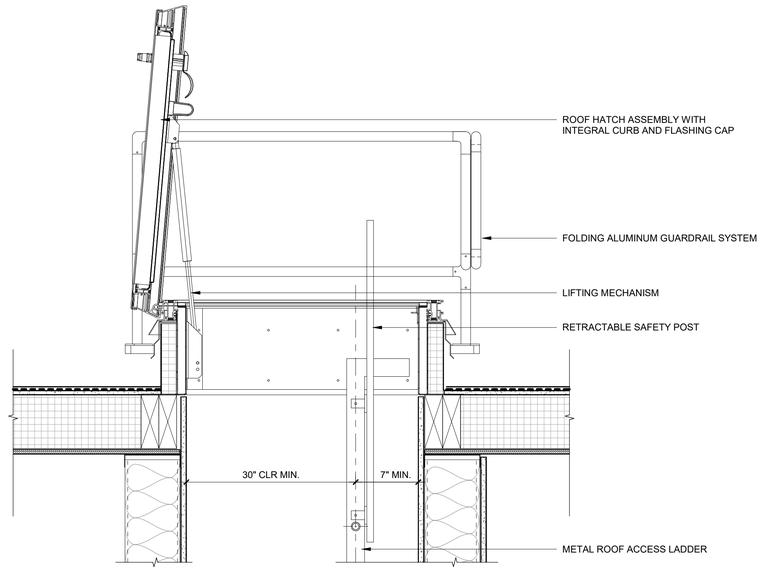


NOTE:
ROOF AND OVERFLOW DRAIN LOCATIONS AND CONFIGURATION PER ARCHITECTURAL AND PLUMBING ROOF PLANS

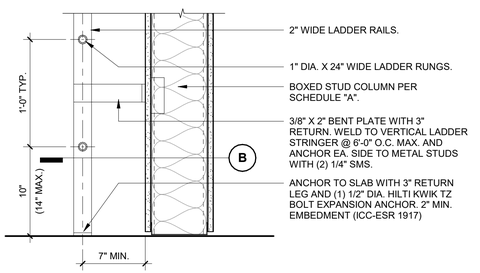
1 ROOF AND OVERFLOW DRAIN ASSEMBLY
1/2" = 1'-0"



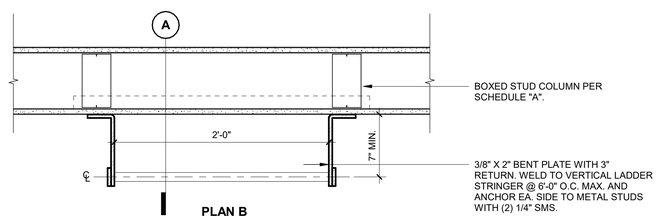
4 ROOF SAFETY TIE-DOWN ANCHOR
3" = 1'-0"



SCHEDULE "A"	
LADDER HEIGHT	BOXED COLUMN DESC.
H < 20'	(2) 600S162-97 EA LEG
20' < H < 30'	(3) 600S162-97 EA LEG



SECTION A



PLAN B

3 ROOF HATCH AND LADDER
1 1/2" = 1'-0"

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3	04/24/23	ADDENDUM 3

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DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

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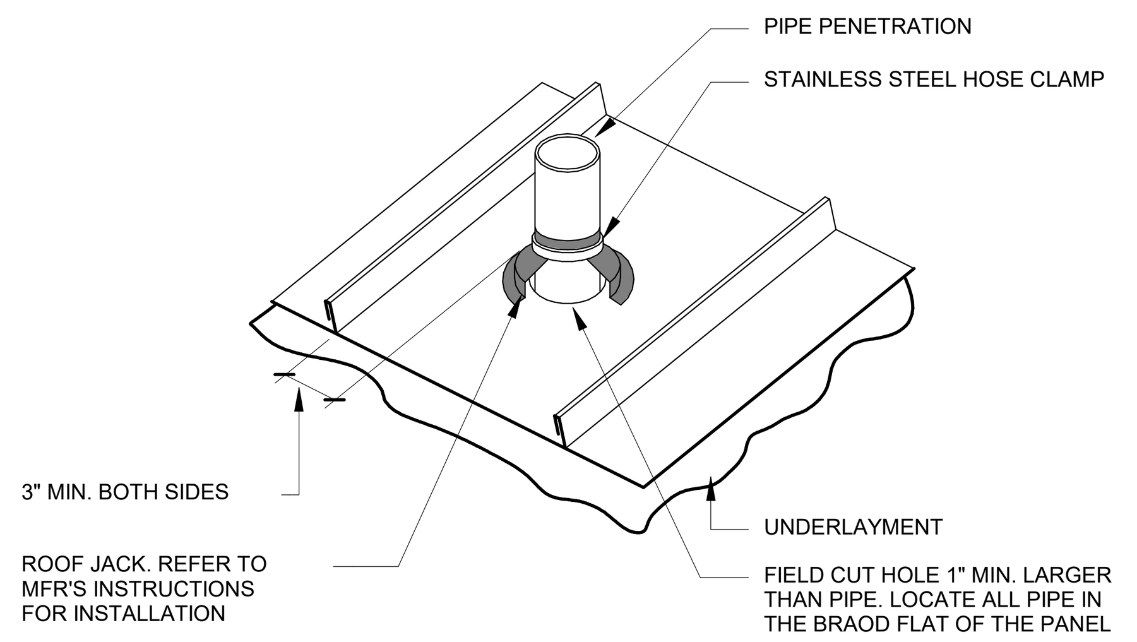
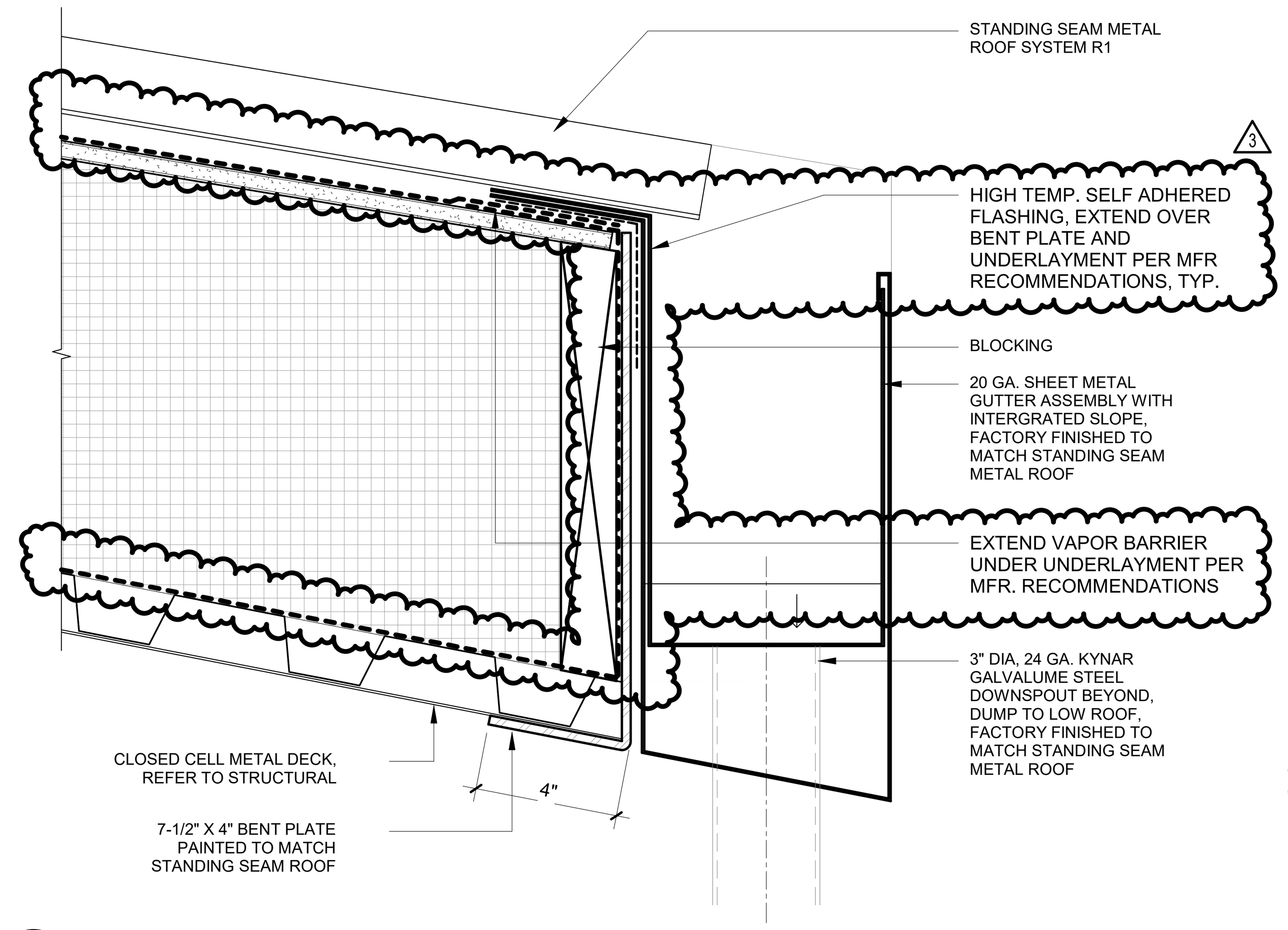
SHEET CONTENTS
ROOFING DETAILS

SHEET NO.:
A-511

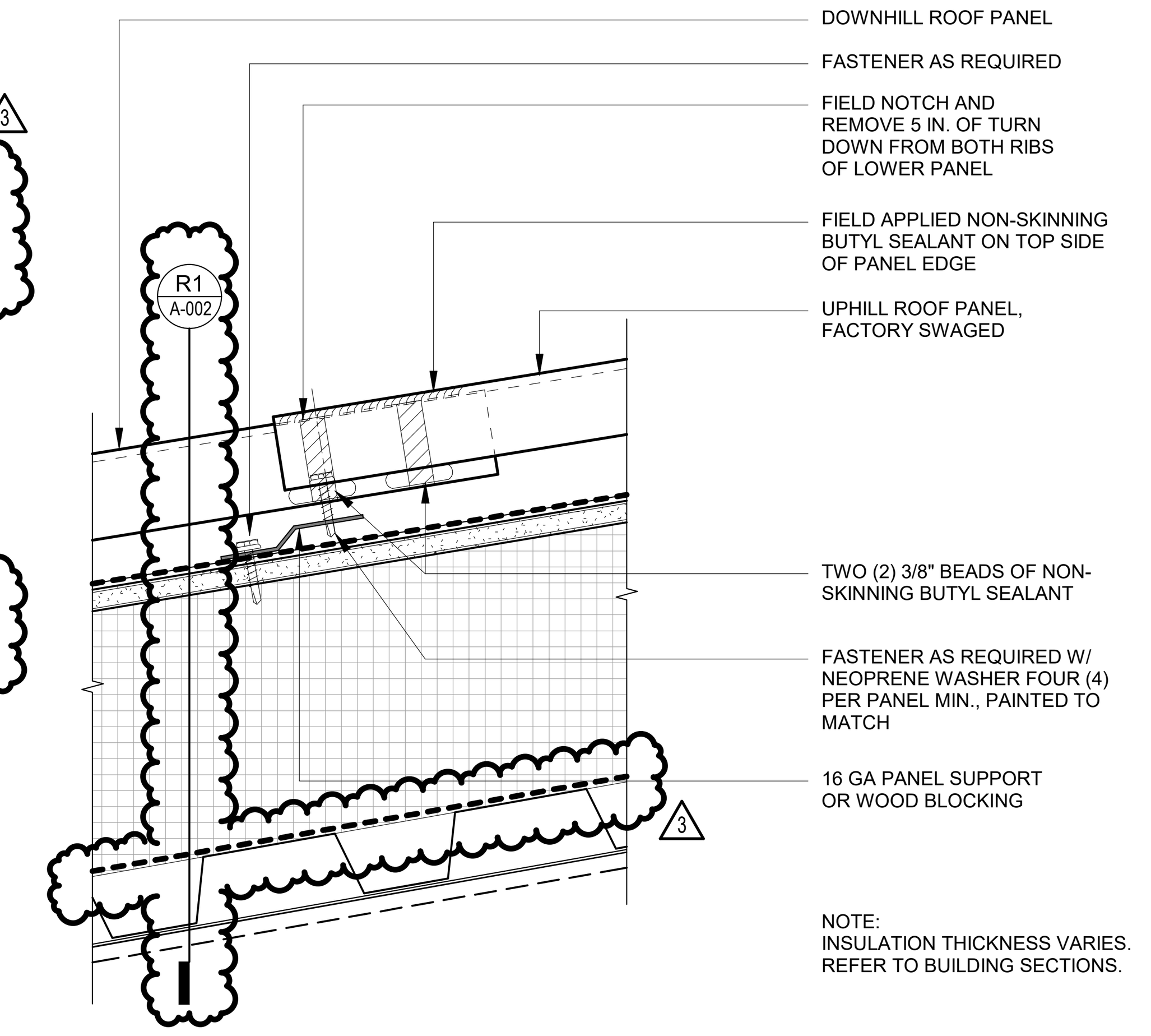


NOTE:
1. PENETRATIONS SHOULD BE CENTERED IN PANELS.
2. SUBSTRATE MUST BE CUT OUT ENOUGH SO THAT ROOF JACK IS ONLY ATTACHED TO ROOF PANEL

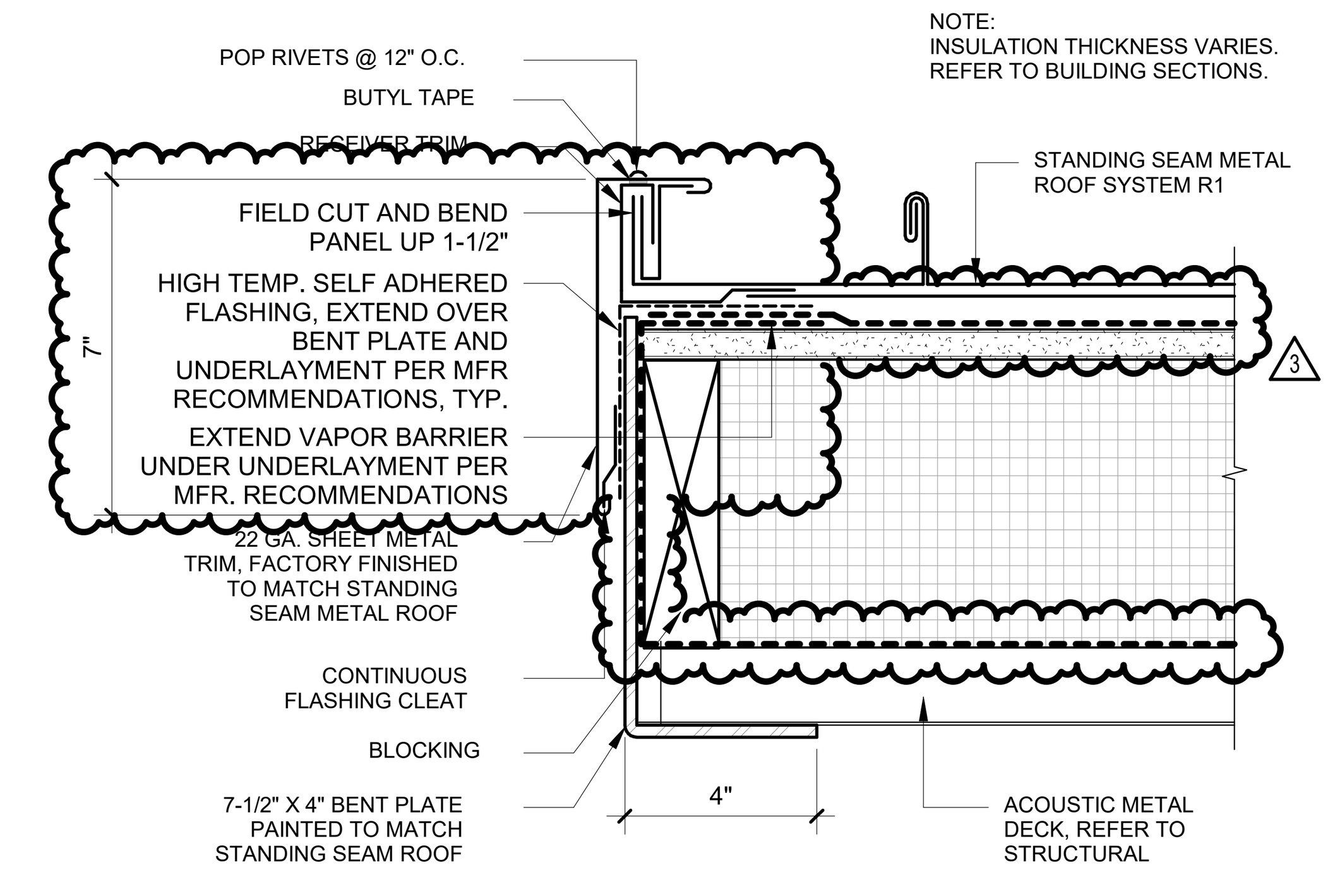
4 STANDING SEAM ROOF PENETRATION
NO SCALE



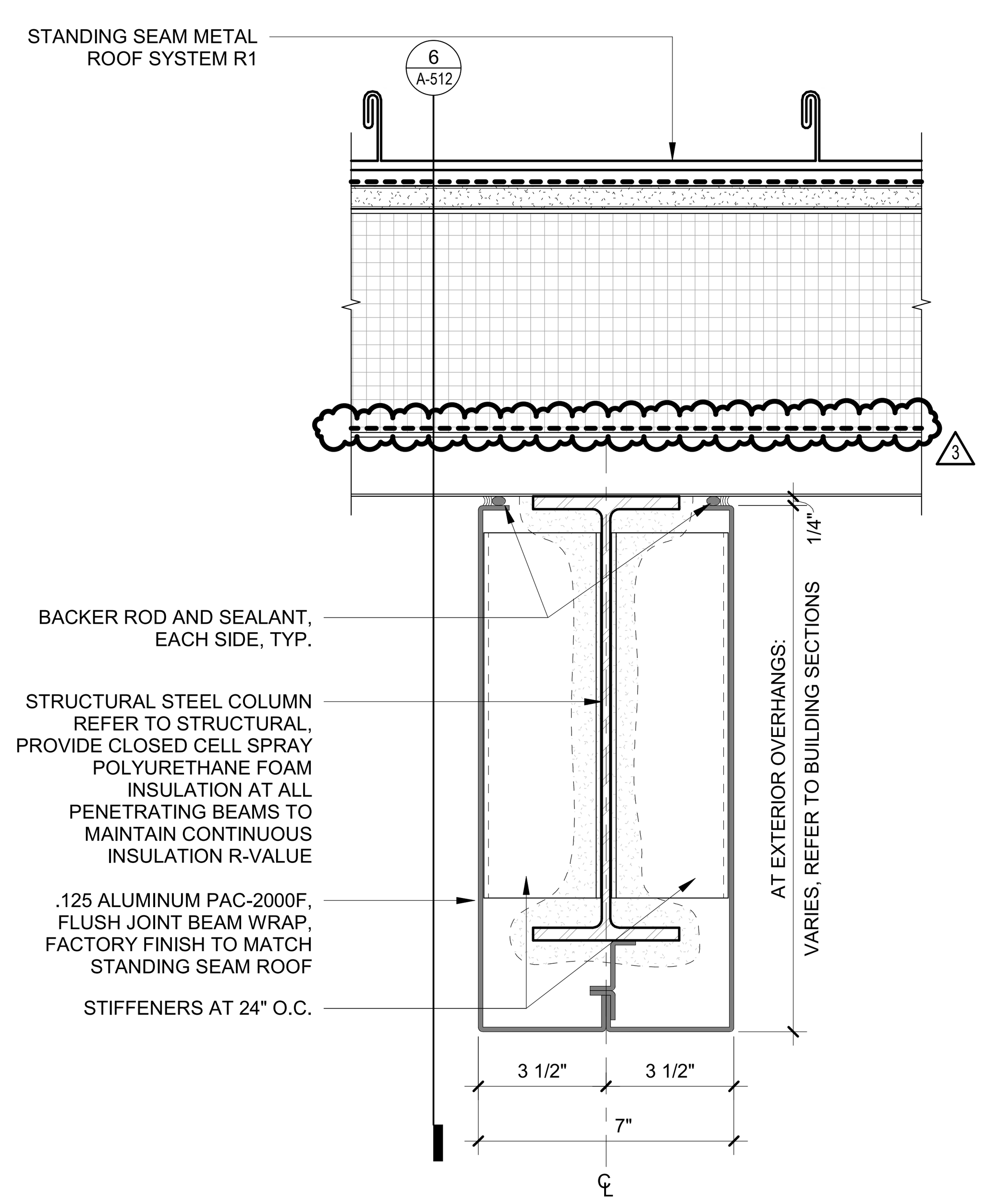
3 STANDING SEAM ROOF RAKE
3" = 1'-0"



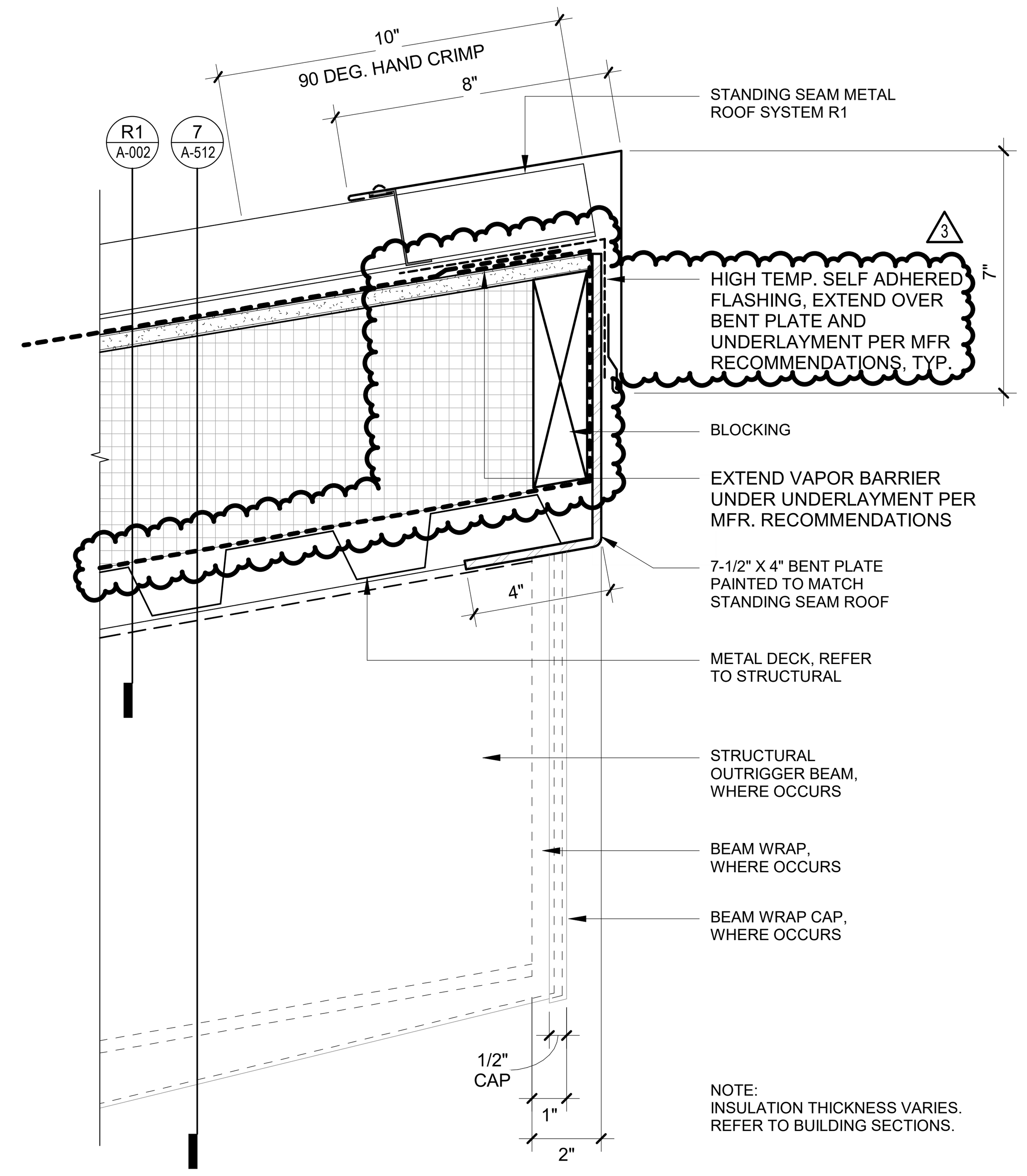
2 STANDING SEAM ROOF PANEL LAP
3" = 1'-0"



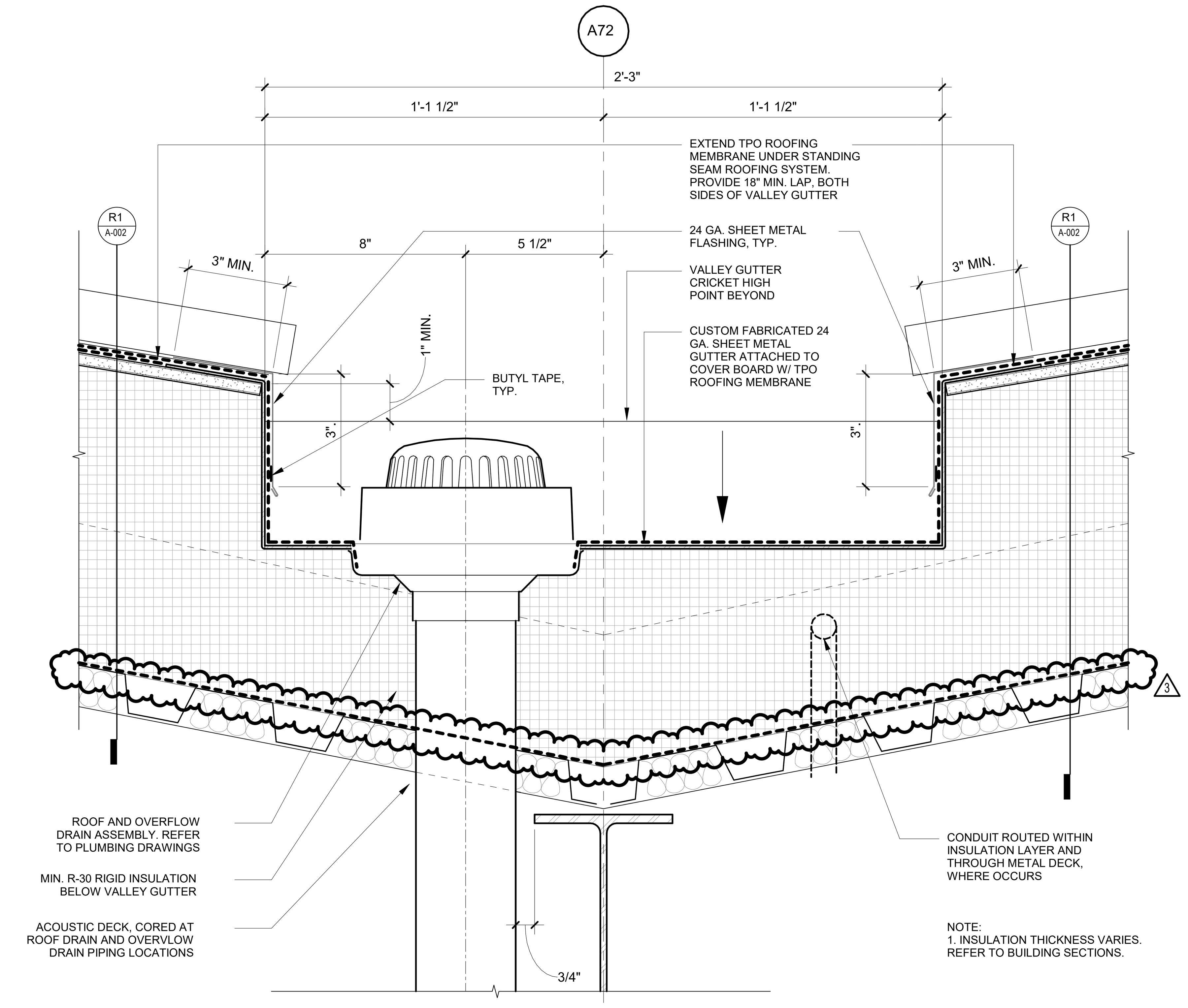
1 STANDING SEAM ROOF RAKE
3" = 1'-0"



7 STANDING SEAM ROOF BEAM WRAP
3" = 1'-0"



6 STANDING SEAM ROOF EAVE
3" = 1'-0"



5 STANDING SEAM ROOF VALLEY GUTTER
3" = 1'-0"

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DRAWN BY:	Author
CHECKED BY:	Checker

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SHEET CONTENTS
ROOFING DETAILS

SHEET NO.:
A-512

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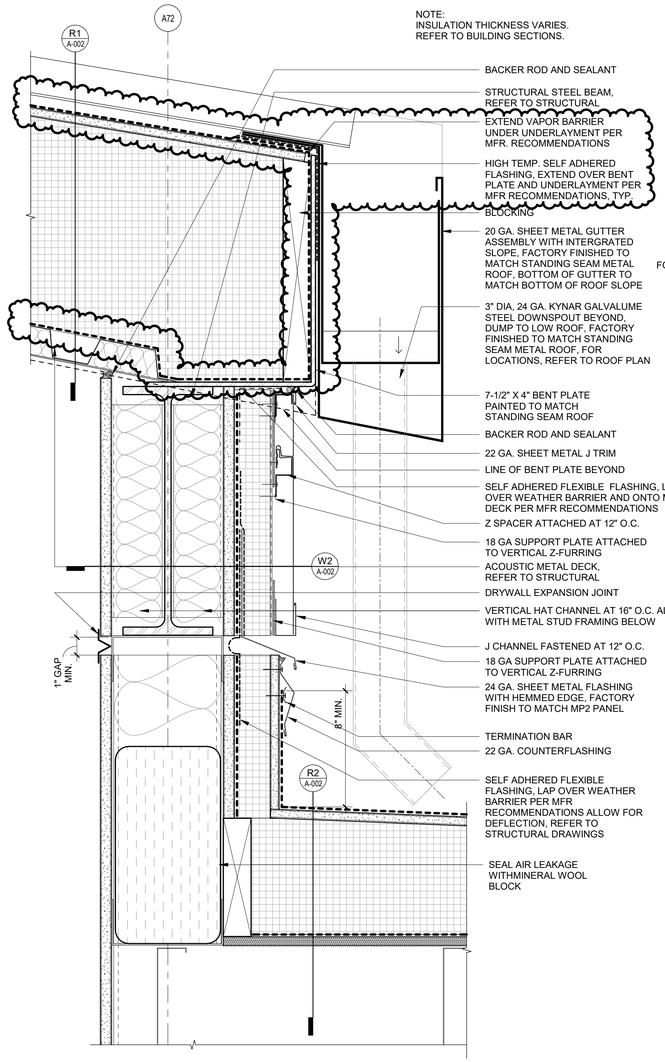
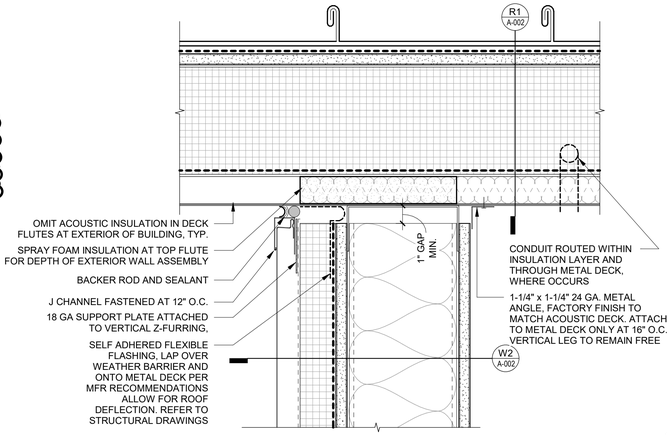
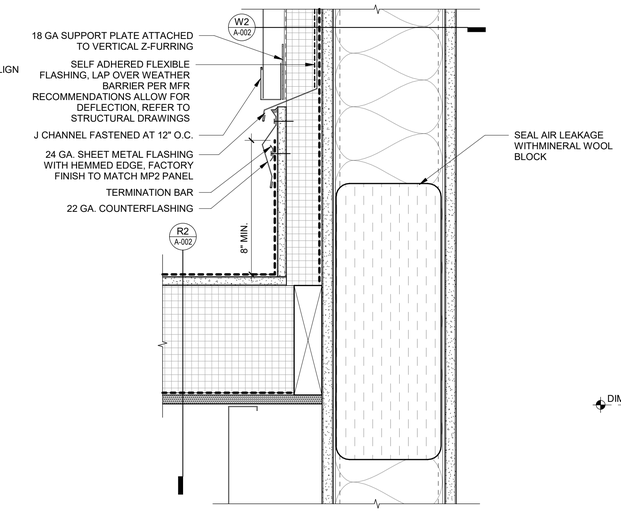


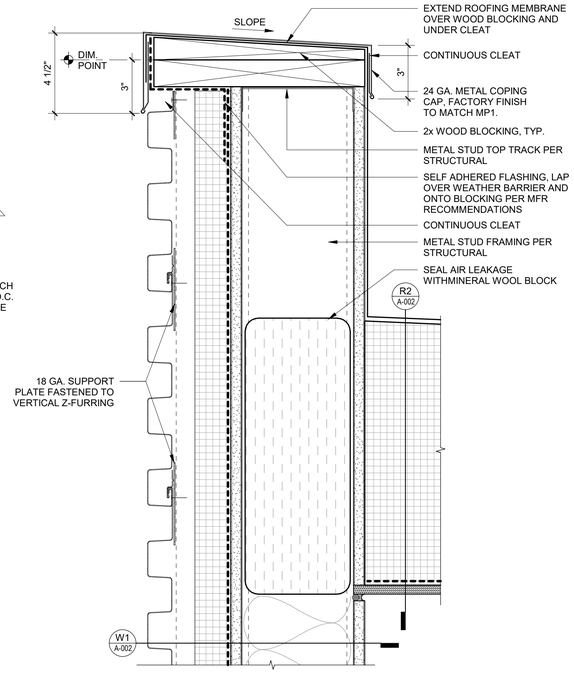
7 STANDING SEAM ROOF RAKE
3" = 1'-0"



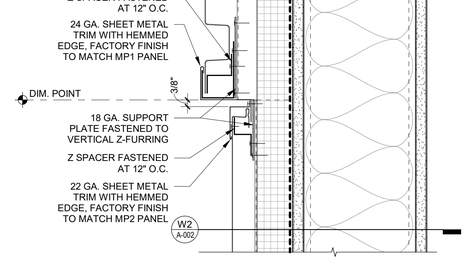
1 MP2 AT UNDERSIDE OF STANDING SEAM ROOF
3" = 1'-0"



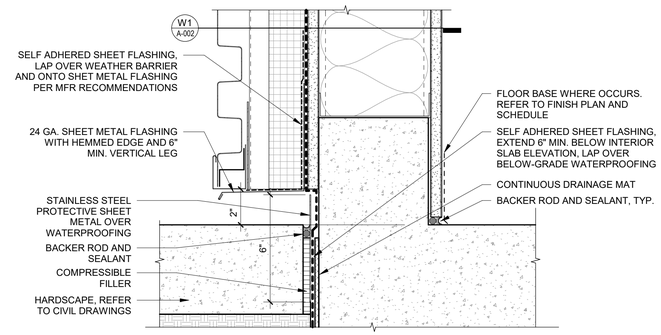
6 MP2 BASE AT LOW ROOF
3" = 1'-0"



5 MP1 TO MP2 TRANSITION
3" = 1'-0"



3 LOW ROOF PARAPET
3" = 1'-0"



4 MP1 SILL
3" = 1'-0"

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ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CnM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.05
DATE:	03.30.2023
DESIGNED BY:	MP/LD
DRAWN BY:	MP/LD/CM
CHECKED BY:	MP/JC

DO NOT SCALE DRAWINGS

SHEET CONTENTS
DETAILS - WALL SECTION

SHEET NO.:
A-531

DOOR AND HARDWARE SCHEDULE

DOOR NUMBER	DOOR							FRAME						MISCELLANEOUS		REMARKS
	LEAF SIZE					GLAZING TYPE	FINISH				DETAILS			LABEL	HDWR SET	
	QTY.	WIDTH	HEIGHT	TYPE	MAT'L			TYPE	MAT'L	FINISH	HEAD	JAMB	OTHER			
100A	(1)	10'-0"	7'-6"	SL2	AL		MFR		AL	MFR	3/A-615	4/A-615	-	-	MFR	EXTERIOR: AUTO SLIDER DOOR W/ EMERGENCY BREAKAWAY, SIGN ABOVE DOOR STATING "DOOR SHALL REMAIN UNLOCKED" REFER TO SIGNAGE PLAN
100B	(1)	10'-0"	7'-6"	SL2	AL		MFR		AL	MFR	1/A-615	2/A-615	-	-	MFR	AUTO SLIDER DOOR W/ EMERGENCY BREAKAWAY, SIGN ABOVE DOOR STATING "DOOR SHALL REMAIN UNLOCKED" REFER TO SIGNAGE PLAN
101	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	45 MIN.	03	ACD, CK
102	(1)	4'-0"	8'-0"	F	HM	-	PT	F2	HM	PT	2/A-613	4/A-613, 5/A-613	6/A-612	-	07	TRANSOM LOUVERS ABOVE DOOR, CK
103	(1)	3'-0"	8'-0"	F	HM	-	PT	F2	HM	PT	2/A-613	4/A-613, 5/A-613	6/A-612	-	08	TRANSOM LOUVERS ABOVE DOOR
104	(1)	3'-0"	8'-0"	F	HM	-	PT	F2	HM	PT	3/A-613	4/A-613, 5/A-613	6/A-612	-	08	TRANSOM WINDOW ABOVE DOOR
105	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
106	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	06	
107	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	06	
108A	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	05	PANIC HARDWARE
108B	(1)	3'-0"	8'-0"	MS	AL	IN	MFR		AL	MFR	2/A-612	5/A-612, 8/A-612, 10/A-612	3/A-612	-	AL-02	PANIC HARDWARE
109	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	06	180 DEG HINGE
110	(1)	3'-0"	7'-0"	N	WD	L	FCF	F1	HM	PT	1/A-614	2/A-614	-	-	02.1	ADB
110A	(1)	3'-0"	7'-0"	N	HM		PT	F1	HM	PT	1/A-614	2/A-614	-	-	05	ACD, CK
110B	(1)	3'-0"	7'-0"	N	WD	L	FCF	F1	HM	PT	1/A-614	2/A-614	-		02.1	ADB
111	-	8'-0"	8'-0"	SG1	SS	-	SS	-	SS		5/A-614	6/A-614	-	-	MFR	ACD, CK
116	(1)	2'-6"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	06	
117	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
118	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
119	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
121A	(1)	3'-0"	8'-0"	F	HM	-	PT	F2	HM	PT	3/A-613	4/A-613, 5/A-613	6/A-612	-	09	PANIC HARDWARE AND DELAYED EGRESS / TRANSOM WINDOW ABOVE DOOR. ACD, CK
121B	(1)	3'-0"	7'-0"	F	HM	L	-	F1	HM	PT	1/A-614	2/A-614	-	-	03	ACD, CK
121C	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	05	TRANSOM WINDOW ABOVE DOOR
122C	(1)	3'-0"	8'-0"	F	HM	-	PT	-	AL	MFR	2/A-612	5/A-612, 12/A-612	3/A-612	-	AL-01.1	PANIC HARDWARE AND DELAYED EGRESS . ACD, CK
129	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
130	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
131	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
132	(1)	3'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	01	
133	(1)	2'-6"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	06	
134A	(1)	3'-0"	7'-0"	MS	AL	T	MFR		AL	MFR	3/A-614		-	-	AL-01	DELAYED EGRESS. ACD, CK
134B	(1)	3'-6"	8'-0 3/8"	MS	AL	IN	MFR		AL	MFR	2/A-612	8/A-612, 11/A-611 SIM.	3/A-612	-	AL-02	ACD, CK
134C	(1)	3'-0"	7'-0"	MS	AL	T	MFR		AL	MFR	3/A-614		-	-	AL-02.1	ACD, CK
135A	(1)	3'-0"	8'-0"	F	HM	-	PT	F2	HM	PT	3/A-613	5/A-613	6/A-612	-	09	PANIC HARDWARE AND DELAYED EGRESS / TRANSOM WINDOW ABOVE DOOR. ACD, CK
135B	-	6'-0"	4'-6"	RC	SS	-	SS	-	SS	FF	-	-	REFER TO BHS DRAWINGS	-	MFR	DOOR SILL 1'-6" AFF, INSULATED. ACD, CK. REFER TO BHS DRAWINGS
140	-	4'-6"	4'-4"	RC	SS	-	SS	-	SS	FF	-	-	REFER TO BHS DRAWINGS	-	MFR	DOOR SILL 1'-6" AFF. REFER TO BHS DRAWINGS
141	(1)	3'-0"	7'-0"	F	WD	-		F1	HM	PT	1/A-614	2/A-614	-	-	02	
142A	(1)	4'-0"	7'-0"	F	HM	-	PT	F1	HM	PT	1/A-614	2/A-614	-	-	05	
142B	(2)	4'-0"	8'-0"	F	HM	-	PT	F2	HM	PT	3/A-613	4/A-613	6/A-612	-	07	TRANSOM WINDOW ABOVE DOORS. ACD, CK
144	(1)	3'-0"	7'-0"	F	WD	-	FCF	F1	HM	PT	1/A-614	2/A-614	-	-	01	
145	(1)	3'-0"	7'-0"	F	WD	L	FCF	F1	HM	PT	1/A-614	2/A-614	-	-	02	
147A	(1)	3'-0"	7'-0"	MS	AL		MFR		AL	MFR	3/A-614		-	-	AL-03	NO TRANSOM
147B	(1)	3'-0"	8'-0"	MS	AL	IN	MFR		AL	MFR	2/A-612	5/A-612, 8/A-612, 10/A-612	3/A-612	-	AL-02	ACD, CK
148	(1)	3'-0"	7'-0"	FG	WD	L	FCF	F1	HM	PT	1/A-614	2/A-614	-	-	02.1	ADB
149	(1)	3'-0"	7'-0"	FG	WD	L	FCF	F1	HM	PT	1/A-614	2/A-614	-	-	02.1	ADB
150	(1)	3'-0"	7'-0"	FG	WD	L	FCF	F1	HM	PT	1/A-614	2/A-614	-	-	03.1	ADB
151	(1)	3'-0"	7'-0"	FG	WD	L	FCF	F1	HM	PT	1/A-614	2/A-614	-	-	02.1	ADB
152A	(1)	3'-0"	7'-0"	MS	AL		MFR		AL	MFR	3/A-614		-	-	AL-03	NO TRANSOM
152B	(1)	3'-0"	8'-0"	MS	AL	IN	MFR		AL	MFR	2/A-612	5/A-612, 8/A-612, 10/A-612	3/A-612	-	AL-02	ACD, CK
153	(1)	2'-0"	7'-0"	F	HM		PT	F1	HM	PT	1/A-614	2/A-614	-	-		

NOTES:

1. AT DELAYED EGRESS DOOR LOCATIONS, PROVIDE DELAYED PANIC HARDWARE CX98-NL-SNB 24 VDC. REFER TO TECHNOLOGY DRAWINGS FOR POWER

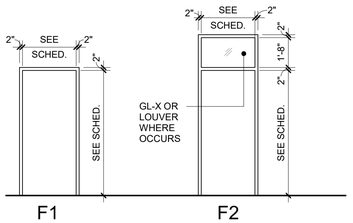
GATE SCHEDULE

GATE NUMBER	TYPE	LEAF SIZE			DETAIL REFERENCE	HINGES	CLOSER	REMARKS
		QTY.	WIDTH	HEIGHT				
G01 (GATE 1)	CHAIN-LINK WITH SLATS	(1)	3'-0"	8'-0"	3/C-631	SELF-CLOSING	NO	PANIC HARDWARE ON AIRSIDE, KNOX BOX ON LANDSIDE
G02 (GATE 2)	CHAIN-LINK WITH SLATS	(1)	3'-0"	8'-0"	3/C-631	SELF-CLOSING	NO	PANIC HARDWARE ON AIRSIDE, KNOX BOX ON LANDSIDE

NOTES:

1. REFER TO T-601 FOR ADDITIONAL REFERENCE.
2. REFER TO SITE GENERAL NOTES ON A-005 FOR GATE REQUIREMENTS.

3



FRAME TYPES
1/4" = 1'-0"

DOOR AND HARDWARE SCHEDULE ABBREVIATIONS

DOOR/FRAME MATERIALS

AL	ALUMINUM
HM	HOLLOW METAL
SS	STAINLESS STEEL
WD	WOOD

GLAZING TYPES

INSULATED GLAZING UNITS (IGU)

IG-1	EXTERIOR CLEAR VISION GLAZING, STC 40 MIN.
IG-2	EXTERIOR FRITTED GLAZING, STC 40 MIN., 75% COVERAGE, CUSTOM GRAPHIC

MONOLITHIC GLAZING

G-1	INTERIOR CLEAR VISION GLAZING
G-2	INTERIOR LAMINATED, CLEAR GLAZING
G-3	INTERIOR LAMINATED, TRANSLUCENT OBSCURING GLAZING

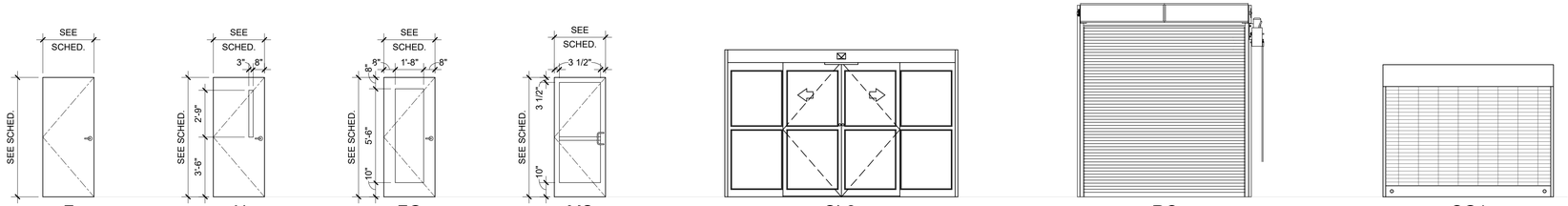
(A)	DENOTES TEMPERED GLAZING

DOOR HARDWARE AND ACCESS CONTROLS

ADB	AUTOMATIC DROP BOTTOM
ACD	ACCESS CONTROLELD DOOR
CK	CREDENTIAL READER WITH KEYPAD

NOTES:

1. ALL EXIT DOORS SHALL BE READILY OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT PER CBC SECTION 1010.1.9.
2. PROVIDE A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE MAIN EXIT DOORS STATING: "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS." THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND PER CBC SECTION 1010.1.9.4.
3. ALL EXTERIOR DOORS SHALL BE WEATHER-STRIPED.
4. DOOR HARDWARE AND OTHER OPERATING DEVICES SHALL BE MOUNTED PER CBC SECTIONS 1010.1.9.1 AND 1010.1.9.2.
5. EXIT DOOR SHALL SWING IN THE DIRECTION OF THE PATH OF EXIT TRAVEL WHERE THE AREA SERVED HAS AN OCCUPANT LOAD OF 50 OR MORE PER CBC SECTION 1010.1.2.1.
6. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES WITH THE DOOR OPEN AT 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP PER CBC SECTION 11B-404.2.3.
7. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2 INCH IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 PER CBC SECTION 11B-404.2.5.
8. ALL ENTRANCES AND ALL EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES PER CBC SECTIONS 11B-206.2.1, 11B-206.2.2, 11B-206.4 AND 11B-404.2.3.
9. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FINISH FLOOR OR GROUND PER CBC SECTION 11B-404.2.7.
10. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOTREQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THEFORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS PER CBC SECTION 11B-309.4.
11. PANIC HARDWARE WHERE INSTALLED SHALL BE LISTED IN ACCORDANCE WITH UL 305. FIRE EXIT HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL10C AND UL 305. THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS PER CBC 1010.1.10.1.
12. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO 12 DEGREES FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE DOOR PER CBC SECTION 11B-404.2.8.
13. THERE SHALL BE A LEVEL AND CLEAR FLOOR LANDING ON EACH SIDE OF A DOOR. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE PER CBC SECTION 11B-404.2, 11B-404.2.4.1, AND 11B-404.2.4.4.
14. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO RETRACT LATCH BOLTS OR DESINGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION PER CBC SECTION 11B-404.2.9.
15. THE MAXIMUM UNLATCHING FORCE APPLIED TO PANIC HARDWARE SHALL NOT EXCEED 5 POUNDS WHEN APPLIED IN THE DIRECTION OF TRAVEL PER CBC SECTION 10.10.1.3 AND 11B-309.4.
16. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION PER CBC SECTION 11B-404.2.10.
17. PROVIDE WALL MOUNTED OR FLOOR MOUNTED DOOR STOPS FOR ALL DOORS. LOCATE FLOOR MOUNTED DOOR STOPS WITHIN 4 INCHES OF THE WALL. PROVIDE BACKING AT ALL WALL MOUNTED DOOR STOPS.
18. PROVIDE NON-REMOVABLE PINS ON ALL MORTIZED OR RIM TYPE CYLINDER LOCKS WHICH PROJECT BEYOND THE FACE OF DOOR.
19. PROVIDE STRAIGHT AUTOMATIC DEAD BOLTS WITH A MINIMUM THROW OF 1 INCH AND MINIMUM EMBEDMENT OF 5/8 INCH INTO THE HOLDING DEVICE RECEIVING THE DEAD BOLT AT EXTERIOR DOORS. DEAD BOLTS MUST OPERATE WITH MORTISE HARDWARE IN ANY PATH OF TRAVEL.
20. DEAD BOLTS ON EXIT DOORS AND ISOLATED FROM MORTISE HARDWARE ARE NOT PERMITTED.
21. ALL RATED DOORS ARE TO BE POSITIVE LATCHING AND SELF CLOSING PER CBC SECTIONS 716.7 AND 716.5.1.
22. "LABEL" SHALL MEAN "FIRE ASSEMBLY" AS DEFINED IN CBC SECTION 716.5.7.1.
23. FIRE DOORS AND FIRE WINDOWS SHALL HAVE AN APPROVED LABEL ON LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMENANTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY ARE DONE.
24. ALL 20 MINUTE RATED ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL SO INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP. THE DOOR AND FRAME SHALL BEAR AN APPROVED LABEL OR TOHER IDENTIFICATION SHOWING THE RATING, FOLLOWED BY THE LETTER "S" PER CBC SECTION 716.2.9.3.
25. FIRE RATED DOOR FRAMES SHALL BE INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCITONS. MANUFACTURER'S PRINTED INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
26. ALL DELAYED EGRESS DOORS SHALL BE EQUIPPED WITH A SIGN ON THE DOOR AND LOCATED ABOVE AND WITHIN 12 INCHES OF THE DOOR EXIT HARDWARE PER CBC 1010.1.9.8.1
27. REFER TO TECHNOLOGY DRAWINGS FOR ACCESS AND DELAYED EGRESS CONTROLS.



DOOR TYPES
1/4" = 1'-0"

Mead & Hunt
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1360 19th Hole Drive, Suite 200
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LICENCED ARCHITECT
TIMOTHY R DACEY
LIC. # 35197
RENEWAL DATE: SEPTEMBER 30, 2021
STATE OF CALIFORNIA

MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

PARCEL APN# 059-300-025-000
20 MACREADY DRIVE MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

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DESIGNED BY:	MP/LD
DRAWN BY:	MP/LD/CM
CHECKED BY:	MP/JC

DO NOT SCALE DRAWINGS

SHEET CONTENTS
DOOR SCHEDULE

SHEET NO.:
A-601

3

ARCHITECTURAL FINISHES SCHEDULE

FINISH NUMBER	FINISH DESCRIPTION	PRODUCT DESCRIPTION					REMARKS
		MANUFACTURER	MODEL NUMBER	STYLE	COLOR	SIZE	
ACT-1	ACCOUSTIC CEILING TILE	ARMSTRONG CEILINGS	-	LYRA PB CONCEALED	WHITE	18" X 48"	CONCEALED GRID LAY IN
CLT-1	WOODWORKS CEILING PANEL	ARMSTRONG CEILINGS	-	WOODWORKS GRILLE	LIGHT CHERRY	12" X 72" AND 12" X 96" / SLAT WIDTH 3/4" / SLAT DEPTH 2 1/2"	
CONC -1	CONCRETE	-	-	-	-	-	SEALED
CONC -2	CONCRETE	-	-	-	-	-	POLISHED
CPT-1	CARPET TILE	FLOR	21-1452	AMONG THE WILDFLOWERS	PERIWINKLE	19.7" X 19.7"	NON-DIRECTIONAL
CPT-2	CARPET TILE	INTERFACE	105766	NY+LON STREETS	METAL CIRCLE	50CM X 50CM	FIELD CARPET, RANDOM
CPT-3	CARPET TILE	INTERFACE		NY+LON STREETS	BROOME STREET	50CM X 50CM	ACCENT FOR CPT-2 FIELD CARPET, RANDOM
CT-1	CERAMIC TILE	CROSSVILLE	-	JAVA JOINT	TWO SUGARS	12" X 24"	PORCELAIN STONE FLOOR TILE, WALL TILE
CT-2	CERAMIC TILE	GARDEN STATE TILE	-	EYE 3D TURCHESE	OZEAN	3" X 8"	WALL TILE, ACCENT
CT-3	CERAMIC TILE	TILEBAR	-	SUMATRA SLICED ROUND	NATURE	5" X 7"	WALL TILE, ACCENT
CT-4	INTEGRAL CERAMIC TILE	DALTILE	-	PORTFOLIO	DOVE GREY	6"X12"	WALL TILE BASE, COVE BASE SHAPE #P36C9
EP-1	EPOXY PAINT	SHERWIN WILLIAMS	-	-	-	-	
LVT-1	LUXURY VINYL TILE	MILLIKEN	ALB267	QUIET LIFE	CALCITE GREY	25CM X 150CM	FIELD PLANKS
LVT-2	LUXURY VINYL TILE	MILLIKEN	ALB162	QUIET LIFE	CHALICE JADE	25CM X 150CM	ACCENT PLANKS
MP-1	METAL WALL PANEL	FORMS + SPACES	BONDED METAL		TBD	TBD	WAINSCOT
PLAM-1	PLASTIC LAMINATE - TYPE 1	FORMICA	8826A	NEUTRAL TWILL	-	-	ANTI MICROBIAL COLLECTION
PT-1	PAINT COLOR - FIELD	BENJAMIN MOORE	960	REGAL O.O VOC, MILDEW RESISTANT	DOVE WING	-	LATEX MATTE FINISH
PT-2	PAINT COLOR - FIELD	SHERWIN WILLIAMS	SW 7066	PROMAR 200 HP ZERO VOC	GRAY MATTERS	-	LATEX MATTE FINISH
PT-3	PAINT COLOR ACCENT	SHERWIN WILLIAMS	SW 7020	PROMAR 200 HP ZERO VOC	BLACK FOX	-	LATEX MATTE FINISH
PT-4	PAINT COLOR ACCENT	BENJAMIN MOORE	CW-555	REGAL O.O VOC, MILDEW RESISTANT	GOODWIN GREEN	-	LATEX MATTE FINISH
PT-5	PAINT COLOR ACCENT	SHERWIN WILLIAMS	SW 9009	PROMAR 200 HP ZERO VOC	SUBDUED SIENNA	-	LATEX MATTE FINISH
RB-1	RUBBER WALL BASE - TYPE 1	TARKETT	TA4	DURACOVE THERMOPLASTIC RUBBER	GATEWAY	4" AND 6"	
RCW	RECLAIMED WOOD	STIKWOOD	-	-	RECLAIMED BARREL OAK		ACCENT WALL TREATMENT
RP-1	RESIN PANEL	3FORM			RICE GRASS	3/8"	
SS-1	SOLID SURFACE	WILSONART	-	-	HEKLA SLOPE	-	QUARTZ
SS-3	SOLID SURFACE	CORIAN	-	-	DOVE	-	ACRYLIC POLYMER
VWC-1	WALL COVERING	KOROSEAL	CT21-02	TYPE II, 20 OZ. LOW VOC	COSTA MACAW	-	100% VINYL, NON-WOVEN BACKING
WWA-1	WOODWORKS WALL PANEL	ARMSTRONG WALLS	-	WOODWORKS GRILLE	LIGHT CHERRY		

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MTL	HEIGHT	
150	CONFERENCE ROOM	CPT-2	RB-1	PT-1	PT-3	PT-1	PT-1	ACT-1	10'-0"	
151	OFFICE	CPT-2	RB-1	PT-1		PT-1	PT-1	ACT-1	10'-0"	
149	OFFICE	CPT-2	RB-1	PT-5	PT-1	PT-1	PT-1	ACT-1	10'-0"	
148	OFFICE	CPT-2	RB-1	PT-5	PT-1	PT-1	PT-1	ACT-1	10'-0"	
147	VEST.	CONC-2	CT-4	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
152	VEST.	CONC-2	CT-4	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
143	BREAK ROOM	CONC-2	CT-4	PT-1, RP-1	PT-2	PT-2	PT-1, RP-1	ACT-1	10'-0"	
146	OPEN OFFICE	CONC-2	CT-4	PT-2	PT-2	PT-2	PT-2	ACT-1	10'-0"	
144	UNISEX TOILET	CT-1	-	CT-1	CT-1	CT-1	CT-1	PT-4	10'-0"	
145	BADGING	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
141	ATO OFFICE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-5	ACT-1	10'-0"	
140	TICKETING	CONC-2	CT-4	PT-1	-	PT-1	PT-3	CLT-1	10'-0"	PAINT SOFFIT PT-3; PAINT ALL MECHANICAL, PLUBMING, AND FIRE ABOVE WOOD SLAT CEILING PT-3
142	OUTBOUND BAGGAGE	CONC-1	RB-1	PT-2	PT-2	PT-2	PT-2	EXPD	-	INSTALL STAINLESS STEEL WALL PROTECTION FROM TOP OF CONCRETE UP 4'-0" ON WALLS
139	TICKET QUEUE	CONC-2	CT-4	PT-1	-	-	-	CLT-1	10'-0"	
138	KIOSK	CONC-2	CT-4	-	-	-	PT-1	PT-2	VARIES	
129	LACTATION ROOM	LVT-1, LVT- 2	CT-4	PT-1	PT-1	PT-4	PT-1	ACT-1	10'-0"	
133	JAN.	CONC-1	RB-1	PT-2	PT-2	PT-2	PT-2	EXPD	-	
116	JAN.	CONC-1	RB-1	PT-2	PT-2	PT-2	PT-2	EXPD	-	
117	UNISEX TOILET	CT-1	-	CT-1	CT-1	CT-1	CT-1	PT-4	10'-0"	
118	UNISEX TOILET	CT-1	-	CT-1	CT-1	CT-1	CT-1	PT-4	10'-0"	
119	UNISEX TOILET	CT-1	-	CT-1	CT-1	CT-1	CT-1	PT-4	10'-0"	
130	UNISEX TOILET	CT-1	-	CT-1	CT-1	CT-1	CT-1	PT-4	10'-0"	
131	UNISEX TOILET	CT-1	-	CT-1	CT-1	CT-1	CT-1	PT-4	10'-0"	
132	UNISEX TOILET	CT-1	-	CT-1	CT-1	CT-1	CT-1	PT-4	10'-0"	
100	VESTIBULE	CONC-2	CT-4	PT-1	PT-1	PT-1	PT-1	CLT-1	VARIES	
135	INBOUND BAGGAGE	CONC-2	CT-4	-	PT-1	PT-1	PT-1	PT-2	VARIES	
134	VESTIBULE	CONC-2	CT-4	PT-1	PT-1	PT-1	PT-1	PT-2	VARIES	
115	HALLWAY	CONC-2	-	MP-1. VWC-1	MP-1. VWC-1	MP-1. VWC-1	-	PT-1	10'-0"	
128	HALLWAY	CONC-2	-	MP-1. VWC-1	MP-1. VWC-1	MP-1. VWC-1	MP-1, VWC-1	PT-1	10'-0"	
113	QUEUE	CONC-2	CT-4	PT-1	MP-1, PT-1	-	-	PT-2	VARIES	
114	SEATING AREA	CONC-2	-	-	MP-1, PT-1	MP-1. PT-1	-	PT-2	VARIES	
120	CONCESSIONS	CONC-2	CT-4	-	PT-1	PT-1	-	PT-2	VARIES	
112	CIRCULATION	CONC-2	CT-4	PT-1	PT-1	PT-1	PT-1	PT-2	VARIES	
101	TELECOM	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPD	-	
102	ELECT.	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPD	-	
103	MECH.	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPD	-	
104	FIRE RISER	CONC-1	-	PT-1	PT-1	PT-1	PT-1	EXPD	-	
105	LACTATION ROOM	LVT-1, LVT- 2	CT-4	PT-1	PT-1	PT-4	PT-1	ACT-1		
107	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
106	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
108	VEST.	CONC-2	CT-4	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
110	TRAINING	CPT-2	RB-1	PT-1	PT-1	PT-5	PT-1	ACT-1	10'-0"	
111	QUEUE	CONC-2	CT-4	VWC-1	-	PT-1	PT-1	ACT-1	10'-0"	
121	CHECKPOINT	CONC-2, CPT-2	CT-4	VWC-1	PT-1	PT-1	PT-1	ACT-1, CLT-1	10'-0"	PAINT ALL MECHANICAL, PLUBMING, AND FIRE ABOVE WOOD SLAT CEILING PT-3
127	SEATING	CPT-1	-	MP-1, PT-1	-	-	-	PT-2	VARIES	
125	PODIUM	CPT-1	-	-	-	-	MP-1, PT-1	PT-2	VARIES	
124	CONCESSIONS	CPT-1	-	MP-1, PT-1	-	-	MP-1, PT-1	PT-2	VARIES	
123	HOLDROOM	CPT-1	CT-4	-	PT-1	PT-1	-	PT-2	VARIES	
126	CIRCULATION	CPT-1	-	-	-	-	-	PT-2	VARIES	
122	CHECKPOINT EXIT AREA	CPT-1	CT-4	MP-1, PT-1	PT-1	-	MP-1, PT-1	PT-2	VARIES	
136	RAC	CONC-2	CT-4	PT-1	PT-3	PT-1	-	PT-2	VARIES	
137	RAC QUEUE	CONC-2	CT-4	PT-1	-	-	-	PT-2	VARIES	
153	ACCESS	CONC-1	-	-	-	-	-	EXPD	-	
109	TSA IT CLOSET	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
121A	TSA SCREENING	CPT-2	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1	10'-0"	
121B	TSA BREAK ROOM	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
121C	OFFICE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	10'-0"	
124	CONCESSIONS	CPT-1	-	MP-1, PT-1	-	-	MP-1, PT-1	PT-2	VARIES	

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LICENCED ARCHITECT
TIMOTHY R DACEY
LIC. # 35197
RENEWAL DATE
NOVEMBER 30, 2021
STATE OF CALIFORNIA

MERCED

MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

PARCEL APN# 059-300-025-000
20 MACREADY DRIVE MERCED, CA 95641

ISSUED

3 04/24/23 ADDENDUM 3

CoM NO.: CP230060
AIP NO.: 3-06-0152-030-2023
M&H NO.: R4665943-220849.05
DATE: 03.30.2023
DESIGNED BY: MP/LD
DRAWN BY: MP/LD/CM
CHECKED BY: MP/JC

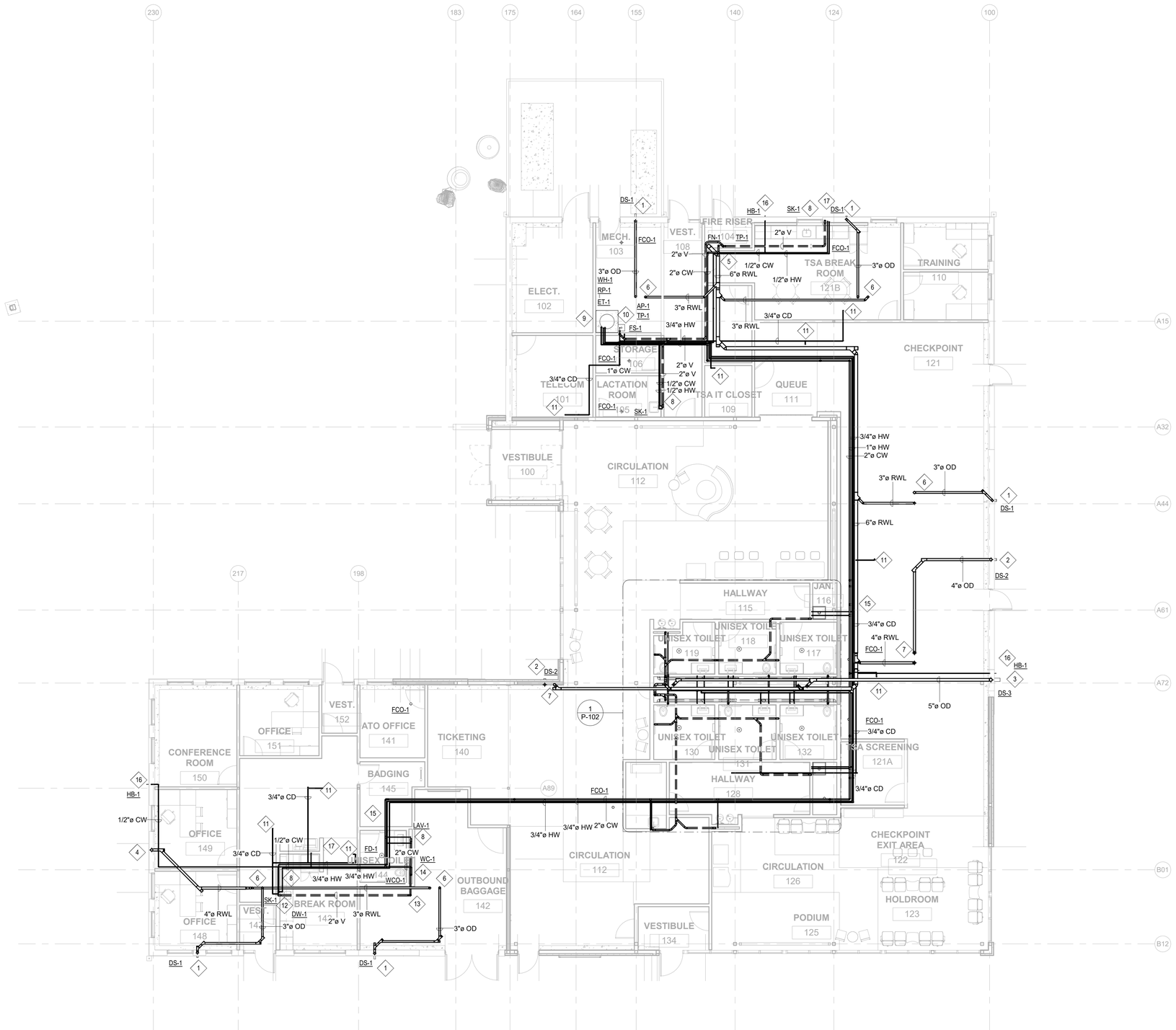
DO NOT SCALE DRAWINGS

SHEET CONTENTS
ARCHITECTURAL SCHEDULES - FINISHES

SHEET NO.:

A-602

4/21/2023 10:37:39 AM C:\Revit Local\220849.05-A-R22_laura.dumitru.rvt



SHEET NOTES

1. 3" OD SPILL TO GRADE.
2. 4" OD SPILL TO GRADE.
3. 5" OD DOWN. UPSIZE TO 6" AT LAST HORIZONTAL. SPILL TO GRADE.
4. 4" RWL DOWN
5. 6" RWL DOWN
   2" CW DOWN
   4" SS DOWN
   2" VENT THRU ROOF
6. 3" RWL UP
   3" OD UP
7. 4" RWL UP
   4" OD UP
8. 2" V UP
   1/2" CW DOWN
   1/2" HW DOWN
9. 1" CW DOWN
   1" HW DOWN
   3/4" HW DOWN
10. 3/4" CD DOWN INDIRECT CONNECTION TO FLOOR SINK
    2" VENT DOWN
    1/2" CW DOWN
11. 3/4" CD FROM MECHANICAL UNIT
12. 3/4" CD TO SINK TAIL PIPE
13. 2" VENT THRU ROOF
14. 4" SS DOWN
    2" VENT UP
    2" CW DOWN
15. 1/2" CW THRU ROOF
16. 1/2" CW DOWN
17. 1/2" CW TO FRIDGE BY OTHERS

GENERAL NOTES

1. PROVIDE CLEANOUT AT EVERY HORIZONTAL CONDENSATE TURN.
2. REFER TO ARCHITECTUAL DRAWINGS SHEET A-533 DETAIL 1 AND 2 FOR OVERFLOW DRAIN SPILL TO GRADE HEIGHT AND HOSE BIBB.

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20 MACREADY DRIVE
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ISSUED

03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-223096.02
DATE:	04.24.2023
DESIGNED BY:	PPE
DRAWN BY:	PPE
CHECKED BY:	PPE

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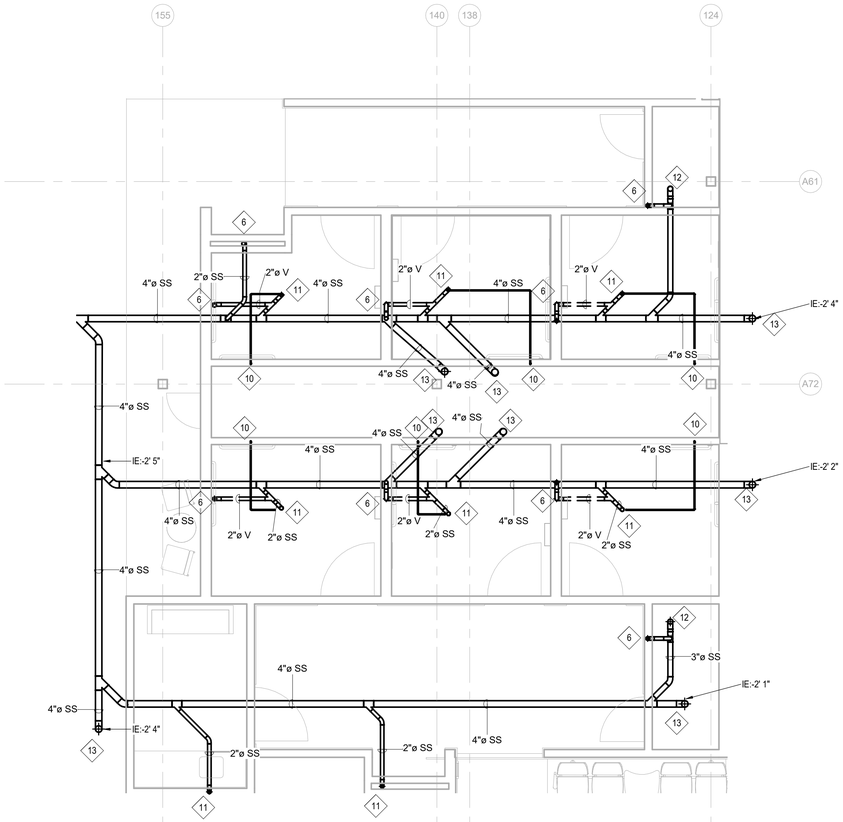
SHEET CONTENTS
PLUMBING
ABOVEGROUND PLAN

SHEET NO.:

P-101

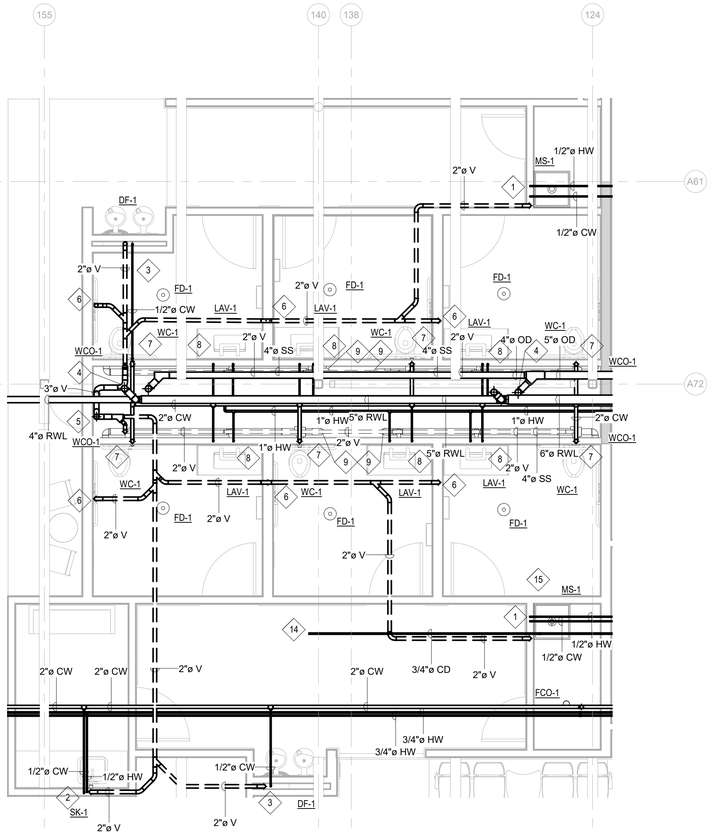
SHEET NOTES

1. 1/2" CW DOWN
   1/2" HW DOWN
   2" V UP
2. 1/2" CW DOWN
   1/2" HW DOWN
   2" V UP
   2" SS DOWN
3. 1/2" CW DOWN
   2" V UP
   2" SS DOWN
4. 4" RWL UP
   4" OD UP
5. 3" VENT THRU ROOF
6. 2" V UP
7. 2" CW DOWN
   2" V UP
   1/2" CW THRU FLOOR
   4" SS FROM WATER CLOSET
8. 1/2" CW DOWN
   1/2" HW DOWN
   2" V UP
   2" SS FROM LAVATORY
9. 4" SS DOWN
10. 1/2"CW UP
11. 2"SS UP
12. 3" SS UP
13. 4" SS UP
14. 3/4" CD FROM MECHANICAL UNIT
15. 3/4" CD DOWN INDIRECT CONNECTION TO MOP SINK



2 PLUMBING UNDERGROUND ENLARGED VIEW

1/4" = 1'-0"



1 PLUMBING ABOVEGROUND ENLARGED VIEW

1/4" = 1'-0"

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3 04/24/23 ADDENDUM 3

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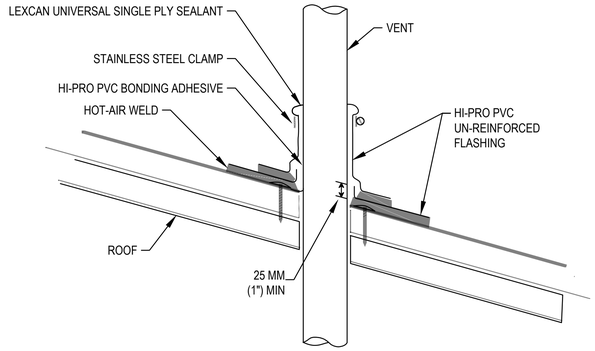
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-223096.02
DATE:	04.24.2023
DESIGNED BY:	PPE
DRAWN BY:	PPE
CHECKED BY:	PPE

DO NOT SCALE DRAWINGS

SHEET CONTENTS
PLUMBING ENLARGED VIEWS

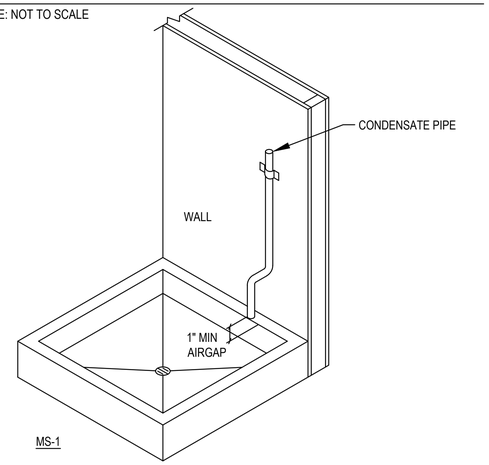
SHEET NO.:
P-102

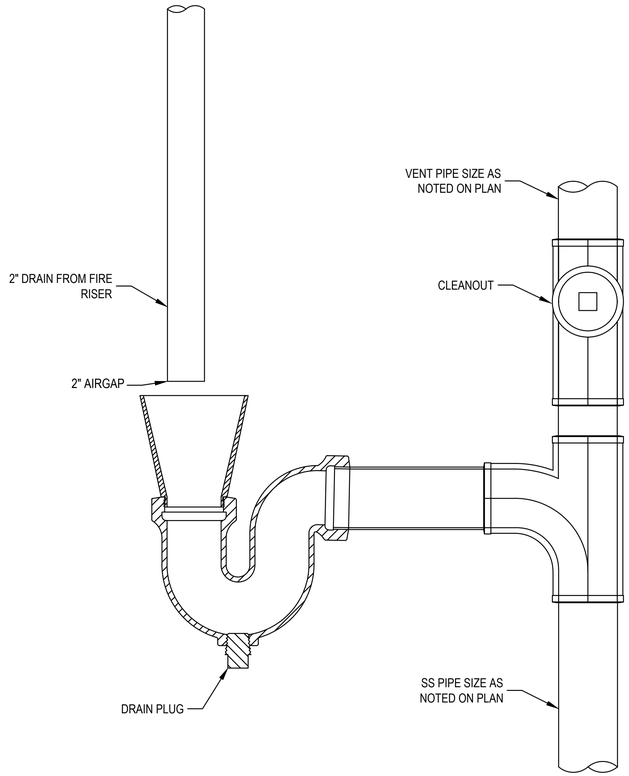


COMMENTS: PIPE FLASHING MUST EXTEND MINIMUM 200 MM (8") ABOVE ROOF FLOOD LEVEL.

3 VENT THROUGH ROOF DETAIL

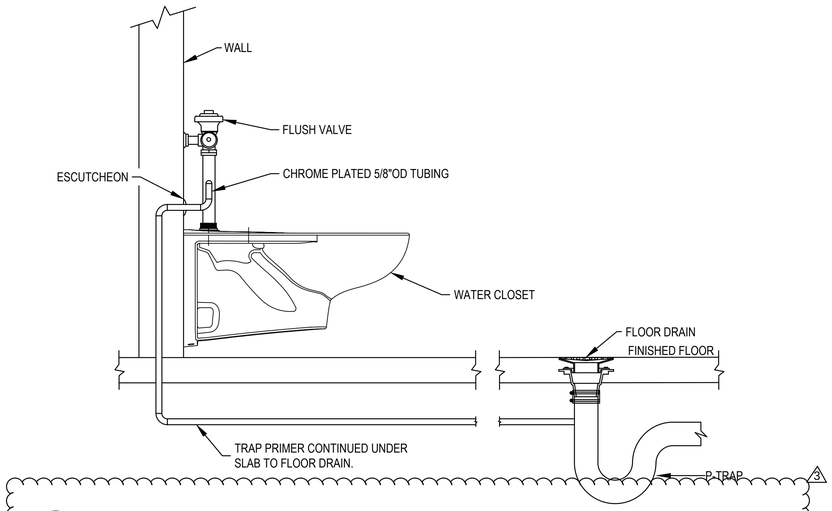
SCALE: NOT TO SCALE





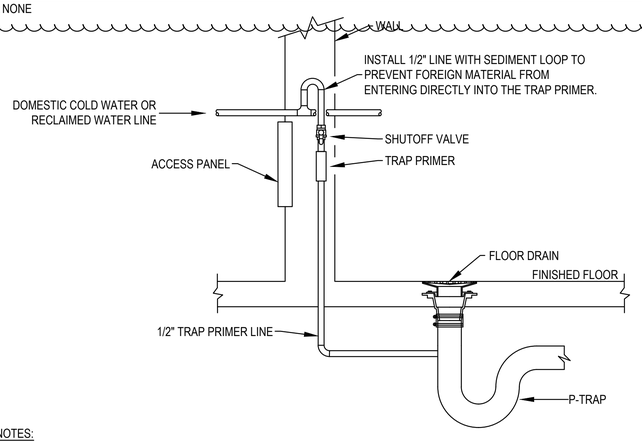
6 FUNNEL DRAIN DETAIL

SCALE: NONE



5 FLOOR DRAIN/TRAP PRIMER DETAIL

SCALE: NONE



NOTES:

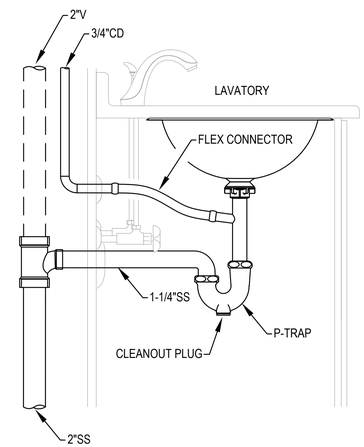
1. TRAP PRIMER MUST HAVE A MINIMUM ELEVATION OF 12" ABOVE THE FINISHED FLOOR.
2. TRAP PRIMER MUST BE INSTALLED LEVEL.
3. TRAP PRIMER MUST BE INSTALLED WITH ACCESS PANEL FOR PERIODIC INSPECTION.

4 FLOOR DRAIN/TRAP PRIMER DETAIL

SCALE: NONE

2 CONDENSATE TO MOP SINK DETAIL

SCALE: NONE



1 CONDENSATE DISCHARGE TO LAVATORY DETAILS

SCALE: NONE

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20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

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CHECKED BY:	PPE

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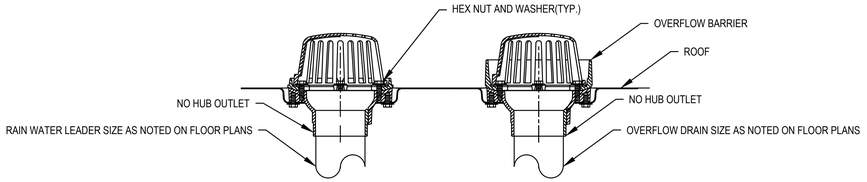
SHEET CONTENTS
PLUMBING DETAILS

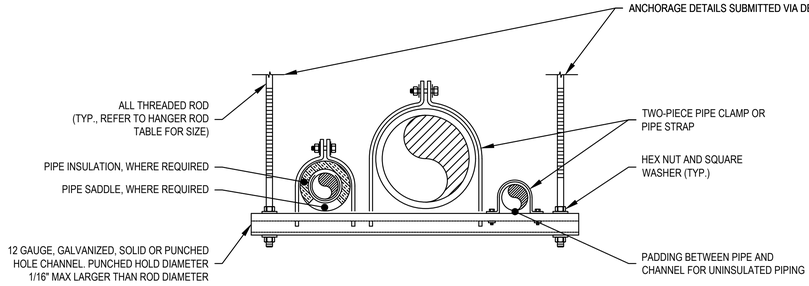
SHEET NO.:

P-300



5 ROOF DRAIN & OVERFLOW DRAIN DETAIL

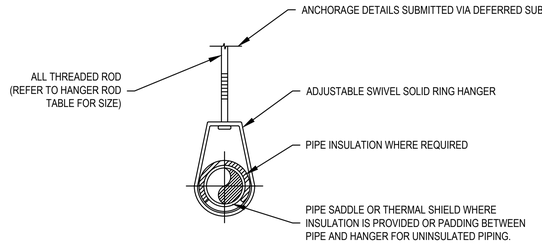
SCALE: NONE



HANGER ROD SIZES (2019 CPC, TABLE 313.6)	
PIPE AND TUBE SIZE (INCHES)	ROD SIZE (INCHES)
1/2 - 4	3/8
5 - 8	1/2
10 - 12	5/8

3 TRAPEZE PIPE HANGING DETAIL (STEEL BEAM)

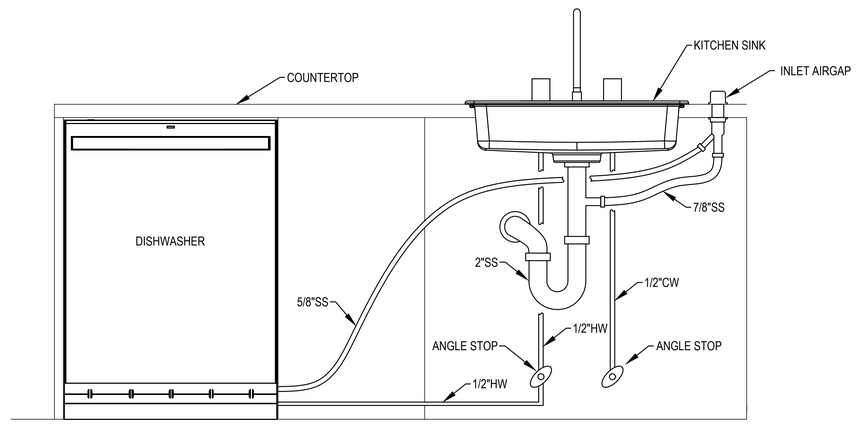
SCALE: NONE



HANGER ROD SIZES (2019 CPC, TABLE 313.6)	
PIPE AND TUBE SIZE (INCHES)	ROD SIZE (INCHES)
1/2 - 4	3/8
5 - 8	1/2
10 - 12	5/8

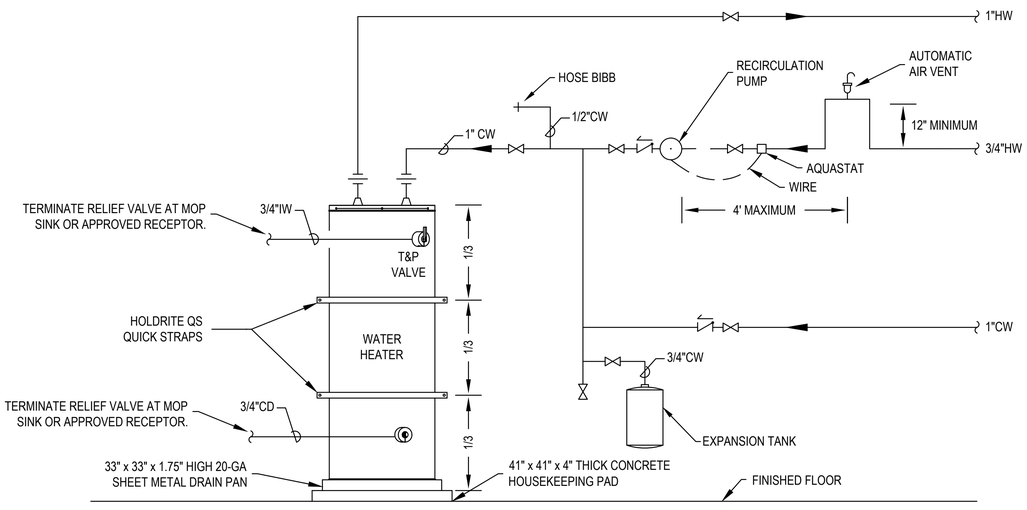
2 SINGLE PIPE HANGING DETAIL (STEEL BEAM)

SCALE: NONE



4 DUAL DISHWASHER AND KITCHEN SINK PIPING DIAGRAM

SCALE: NONE



RECIRCULATION PUMP SEQUENCE OF OPERATIONS:

1. AQUASTAT TO TURN RECIRCULATION PUMP ON WHEN MEASURED WATER TEMPERATURE IS 100^{O}F OR LOWER.
2. AQUASTAT TO TURN RECIRCULATION PUMP OFF WHEN MEASURED WATER TEMPERATURE REACHES 115^{O}F.

1 ELECTRIC WATER HEATER PIPING CONNECTION DETAIL

SCALE: NONE

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20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

03/30/23	PERMIT SUBMITTAL / BID SET
3 04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-223096.02
DATE:	04.24.2023
DESIGNED BY:	PPE
DRAWN BY:	PPE
CHECKED BY:	PPE

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SHEET CONTENTS
PLUMBING DETAILS

SHEET NO.:
P-301

DEDICATED OUTSIDE AIR UNIT

TAG	Manufacturer (or equal)	Model	Nominal Tons	CFM	Min CFM	Unit ESP (inches)	Motor BHP	Motor HP	Cooling				Heating						Volts / Phase	MCA	MOP	EER	Unit height** (inches)	Weight (lbs)	Application	Comments
									EAT (DB/WB)	LAT (DB)	Output (Btu/h)	Sensible (Btu/h)	EAT (DB)	LAT (DB)	Total Output (Btu/h)	Output @ 17 (Btu/h)	Electric Power (kW)	COP								
DOAS - 1	HORIZON	OAKE144E3	12	3,000	1,250	0.65	0.97	2	103 F / 71 F	72 F	102,000	101,000	30	60	96,714	96,714	15	4.4	208 / 3	106.3	110	10.3	85	2,748	VENTILATION	1,2,3,4,5,6,7,8

3

NOTES:

* SENSIBLE COOLING LOAD DOES NOT INCLUDE FAN HEAT LOSS

** UNIT HEIGHT EXCLUDES PLATFORM AND ISOLATION HEIGHT

1 HORIZONTAL DISCHARGE UNIT

2 PROVIDED WITH FACTORY INSTALLED AND TESTED SUPPLY VARIABLE FREQUENCY DRIVES

3 2" MERV-8 FILTERS AND 4" CARBON IMPREGNATED FILTER WITH A MINIMUM MERV-14 RATING

4 MOUNTED ON I-BEAM FRAMING, BY MECHANICAL CONTRACTOR

5 FACTORY PROVIDED FUSED DISCONNECT WITH CONVENIENCE OUTLET

6 SMOKE DETECTORS IN SUPPLY AIR DUCT FOR AUTOMATIC SHUT-OFF, INTERLOCKING TO UNIT FOR UNIT SHUTDOWN. PROVIDED BY MECHANICAL CONTRACTOR.

7 COILS SHALL BE E-COATED

8 ALL FANS SHALL BE PROVIDED WITH INTERNAL RUBBER VIBRATION ISOLATORS, TO REDUCE THE TRANSMISSION OF NOICE

VRF FAN-COIL UNIT SCHEDULE

Tag	Manufacturer (or equal)	Model	Tonnage	Nominal Cooling Cap. (Btu/hr)	Mixed Air Inlet (°F)	Unit CFM	Unit ESP	Liq. Line Size (inch)	Suc. Line Size (inch)	MCA (Ampere)	MOP (Ampere)	Volts / Phase	Weight (pounds)	Area Served	Comments
CU - 1															
FC - 1	TRANE	TPEFYP030MA144A	2.5	30,000	80 / 67	885	0.6	3 / 8	5 / 8	2.9	15	208 / 1	70	CONFERENCE	1,2,3,4,5,9
FC - 2	TRANE	TPEFYP018MA144A	1.5	18,000	80 / 67	600	0.6	1 / 4	1 / 2	2.9	15	208 / 1	60	OPEN OFFICE	1,2,3,4,5,9
FC - 3	TRANE	TPEFYP030MA144A	2.5	30,000	80 / 67	885	0.6	3 / 8	5 / 8	2.9	15	208 / 1	70	BAGGAGE	1,2,3,4,5,9
CU - 2															
FC - 4	TRANE	TPEFYP048MA144A	4.0	48,000	80 / 67	1,305	0.6	3 / 8	5 / 8	4.4	15	208 / 1	90	TICKETING	1,2,3,4,5,8,9
FC - 5	TRANE	TPEFYP072MH140A	6	72,000	80 / 67	2,545	1	3 / 8	3 / 4	7.7	15	208 / 1	215	QUEUE	1,2,3,4,5,8,9
CU - 3															
FC - 6	TRANE	TPEFYP018MA144A	1.5	18,000	80 / 67	600	0.6	1 / 4	1 / 2	2.9	15	208 / 1	60	TSA	1,2,3,4,5,9
FC - 7	TRANE	TPEFYP072MH140A	6	72,000	80 / 67	2,545	1	3 / 8	3 / 4	7.7	15	208 / 1	215	CHECKPOINT	1,2,3,4,5,8,9
FC - 8	TRANE	TPEFYP072MH140A	6	72,000	80 / 67	2,545	1	3 / 8	3 / 4	7.7	15	208 / 1	215	HOLDING	1,2,3,4,5,8,9
CU - 4															
FC - 9	TRANE	TPKA0A0361KA70A	3	36000	80 / 67	920	0.6	3 / 8	5 / 8	1	--	208 / 1	50	IT CLOSET	2,3,4,6,7
CU - 5															
FC - 10	TRANE	TPKA0A0361KA70A	3	36,000	80 / 67	920	0.6	3 / 8	5 / 8	1	--	208 / 1	50	TELECOM	2,3,4,6,7

NOTES:

1 DUCTED FAN COIL, FUSED DISCONNECT PROVIDED BY ELECTRICIAN

2 COPPER/ALLUMINUM COILS

3 CONDENSATE PUMP FURNISHED BY MANUFACTURER

4 SHALL BE CONTROLLED BY SINGLE THERMOSTAT, PROVIDED BY MECHANICAL CONTRACTOR

5 HORIZONTAL UNIT MOUNTED ON RUBBER ISOLATORS WITH UNISTRUT SUPPORT, BY MECHANICAL CONTRACTOR

6 INDOOR UNIT SHALL BE POWERED BY THE OUTDOOR UNIT

7 WALL MOUNTED FAN COIL UNIT

8 SMOKE DETECTORS IN SUPPLY AIR DUCT FOR AUTOMATIC SHUT-OFF. INTERLOCKING TO UNIT FOR UNIT SHUTDOWN, PROVIDED BY MECHANICAL CONTRACTOR.

9 2"- MERV-13 FILTER ON AIR INTAKE SIDE FOR DUCTED FAN COILS. STANDARD FILTER BOX FURNISHED BY MANUFACTURER, WITH MERV 13 FILTER PROVIDED BY MECHANICAL CONTRACTOR

CONDENSING UNIT SCHEDULE

Tag	Manufacturer (or equal)	Model	Nominal Cooling Capacity (Btu/hr)	Nominal Heating Capacity (Btu/hr)	Tonnage	Refrigerant	Volts / Phase	MCA (Ampere)	MOP (Ampere)	EER / IEER	COP	Height without Leveling/Curb (inches)	Weight (pounds)	Equipment Served	Comments
CU - 1	TRANE	TUHYP0723AN40AN	72,000	80,000	6	R-410A	208 / 3	24	40	11.9 / 21.1	4.03	75	470	FC - 1 TO 3	1,2,3,4
CU - 2	TRANE	TUHYP1203AN40AN	120,000	135,000	10	R-410A	208 / 3	41	60	12.3 / 23.6	3.70	75	605	FC - 4 TO 5	1,2,3,5
CU - 3	TRANE	TUHYP1443AN40AN	144,000	160,000	12	R-410A	208 / 3	49	80	12.2 / 23.2	3.57	75	650	FC - 6 TO 8	1,2,3,5
CU - 4	TRANE	TRUZA0361KA70NA	36,000	--	3	R-410A	208 / 1	25	31	10.8 / --	--	55	215	FC - 9	1,2,3,4
CU - 5	TRANE	TRUZA0361KA70NA	36,000	--	3	R-410A	208 / 1	25	31	10.8 / --	--	55	215	FC - 10	1,2,3,4

3

NOTES:

1 NEW HEAT PUMP CONDENSING UNIT

2 SIZE REFRIGERANT LINE ACCORDING TO MANUFACTURER SPECIFICATIONS, CONFIRM PIPE LENGTH

3 DISCONNECT PROVIDED BY ELECTRICIAN.

4 CONDENSING UNIT SHALL BE MOUNTED ON LEVELED SLEEPER BY GENERAL CONTRACTOR, WITH NEOPRENE WAFFLE PAD BY MECHANICAL CONTRACTOR

5 CONDENSING UNIT SHALL BE MOUNTED ON FLOOR WITH CONCRETE PAD BY GENERAL CONTRACTOR, AND NEOPRENE ISOLATORS BY MECHANICAL CONTRACTOR

VENTILATION CALCULATIONS

Room Name	Room Area (SF)	Design Occupancy (SF / Person)	Design Occupancy (# of people)	2019 CEC TABLE 4-12: MINIMUM VENTILATION RATES				Demand Control Ventilation	Occupancy Sensor	Ventilation Rate Required (CFM)	Ventilation Rate Provided (CFM)	Complies?	Served By
				Area Based CFM/SF	Occupancy Based CFM / Person	Area Based Ventilation (CFM)	People Based Ventilation (CFM)						
VESTIBULE 100	130	100	1	0.15	15	20	20	N / A	N / A	20	20	Yes	DOAS - 1
TELECOM 101	160	500	1	0.15	15	24	15	N / A	N / A	24	24	Yes	DOAS - 1
ELECT 102	215	500	1	0.15	15	32	15	N / A	N / A	32	32	Yes	DOAS - 1
MECH 103	175	500	1	0.15	15	26	15	N / A	N / A	26	26	Yes	DOAS - 1
LACTATION ROOM 105	65	100	1	0.15	15	10	15	N / A	N / A	15	15	Yes	DOAS - 1
STORAGE 106	65	100	1	0.15	15	10	15	N / A	N / A	15	15	Yes	DOAS - 1
STORAGE 107	65	100	1	0.15	15	10	15	N / A	N / A	15	15	Yes	DOAS - 1
TSA 109	130	100	1	0.50	15	65	20	N / A	N / A	65	65	Yes	DOAS - 1
TSA 110	380	100	4	0.50	15	190	57	N / A	N / A	190	190	Yes	DOAS - 1
QUEUE 111	165	30	6	0.50	15	83	83	N / A	N / A	83	83	Yes	DOAS - 1
CIRCULATION 112	650	30	22	0.50	15	325	325	N / A	N / A	325	325	Yes	DOAS - 1
QUEUE 113	550	30	18	0.15	15	83	275	N / A	N / A	275	275	Yes	DOAS - 1
SEATING AREA 114	205	30	7	0.15	15	31	103	N / A	N / A	103	103	Yes	DOAS - 1
CHECKPOINT 121	1,860	30	62	0.50	15	930	930	N / A	N / A	930	930	Yes	DOAS - 1
CHECKPOINT EXIT 122	180	30	6	0.50	15	90	90	N / A	N / A	90	90	Yes	DOAS - 1
HOLDROOM 123	220	30	7	0.15	15	33	110	N / A	N / A	110	110	Yes	DOAS - 1
CONCESSIONS 124	80	30	3	0.15	15	12	40	N / A	N / A	40	40	Yes	DOAS - 1
PODIUM 125	140	100	1	0.50	15	70	21	N / A	N / A	70	70	Yes	DOAS - 1
CIRCULATION 126	205	100	2	0.15	15	31	31	N / A	N / A	31	31	Yes	DOAS - 1
HALLWAY 128	200	100	2	0.15	15	30	30	N / A	N / A	30	30	Yes	DOAS - 1
LACTATION RM 129	65	100	1	0.15	15	10	15	N / A	N / A	15	15	Yes	DOAS - 1
VESTIBULE 134	70	100	1	0.15	15	11	15	N / A	N / A	15	15	Yes	DOAS - 1
INBOUND BAGGAGE 135	210	30	7	0.50	15	105	105	N / A	N / A	105	105	Yes	DOAS - 1
KIOSK 138	40	30	1	0.15	15	6	20	N / A	N / A	20	20	Yes	DOAS - 1
TICKET QUEUE 139	170	30	6	0.50	15	85	85	N / A	N / A	85	85	Yes	DOAS - 1
TICKETING 140	220	30	7	0.50	15	110	110	N / A	N / A	110	110	Yes	DOAS - 1
BREAK ROOM PN	320	200	2	0.50	15	160	24	N / A	N / A	160	160	Yes	DOAS - 1
									Total Ventilation Airflow		3,000		
ATO OFFICE 141	115	100	1	0.15	15	17	17	N / A	N / A	17	17	Yes	TF - 2
OUTBOUND BAGGAGE 142	405	30	14	0.50	15	203	203	N / A	N / A	203	203	Yes	TF - 2
BREAK ROOM 143	200	200	1	0.50	15	100	15	N / A	N / A	100	100	Yes	TF - 2
BADGING 145	85	100	1	0.15	15	13	15	N / A	N / A	15	15	Yes	TF - 2
OPEN OFFICE 146	300	100	3	0.15	15	45	45	N / A	N / A	45	45	Yes	TF - 2
VEST 147	40	100	1	0.15	15	6	15	N / A	N / A	15	15	Yes	TF - 2
OFFICE 148	150	100	2	0.15	15	23	23	N / A	N / A	23	23	Yes	TF - 2
OFFICE 149	150	100	2	0.15	15	23	23	N / A	N / A	23	23	Yes	TF - 2
CONFERENCE ROOM 150	195	50	4	0.50	15	98	59	N / A	N / A	98	98	Yes	TF - 2
OFFICE 151	130	100	1	0.15	15	20	20	N / A	N / A	20	20	Yes	TF - 2
VEST 152	40	100	1	0.15	15	6	15	N / A	N / A	15	15	Yes	TF - 2
									Total Ventilation Airflow		575		

FAN SCHEDULE

Tag	Manufacturer (or equal)	Model	Design CFM	ESP (IN)	Motor RPM	BHP	HP	Volts / Phase	Fan Height (inches)	Weight (pounds)	Equipment / Area Served	Comments
EF - 1	GREENHECK	G-097-VG	215	0.4	1,368	0.07	0.25	115 / 1	35	40	BREAK ROOM	1,4,6,9
EF - 2	GREENHECK	USF-18-B1	2,100	0.6	2,074	0.34	1.00	208 / 3	40	240	GEN. EXHAUST	2,4,6
EF - 3	GREENHECK	G-098-VG	450	0.25	1,125	0.05	0.25	115 / 1	35	40	TRASH RM / STORAGE	1,4,7,9
EF - 4	GREENHECK	G-130-VG	600	0.25	704	0.04	0.3	115 / 1	35	45	ELECTRICAL ROOM	1,4,5,9
TF - 1	GREENHECK	SQ-120-VG	575	0.25	783	0.05	0.5	115 / 1	15	60	FC - 1 TO 3	3,4,8,9

NOTES:

1 CENTRIFUGAL CURB MOUNTED MUSHROOM FAN WITH EC MOTOR, CURB BY MANUFACTURER

2 UTILITY SET FAN, UP-BLAST CONFIGURATION, CLOCKWISE ROTATION, TEFC MOTOR, MOUNTED ON REDWOOD SLEEPERS BY GENERAL CONTRACTOR, AND NEOPRENE ISOLATOR BY MECHANICAL CONTRACTOR

3 IN-LINE DIRECT FAN WITH EC MOTOR & END DISCHARGE, MOUNTED USING SPRING ISOLATORS BY MECHANICAL CONTRACTOR

4 DISCONNECT PROVIDED BY ELECTRICIAN

5 EXHAUST FAN TO BE CONTROLLED BY LINE VOLTAGE THERMOSTAT. LOW VOLTAGE WIRING BY CONTROLS CONTRACTOR.

6 EXHAUST FAN TO OPERATE AT CONSTANT SPEED DURING OCCUPIED HOURS, WITH GRAVITY BACKDRAFT DAMPER

7 EXHAUST FAN TO OPERATE 24/7

8 FAN SHALL BE TIED TO FAN COIL UNIT, AND RUN CONTINUOUSLY DURING OCCUPIED HOURS.

9 DISCONNECT PROVIDED BY MANUFACTURER

REGISTER/GRILLE SCHEDULE

Tag	Use	Make	Model	Type	Notes
SD-1	SUPPLY	PRICE	PDMC	LAY-IN	MODULAR CORE DIFFUSER. 24"x24" MODULE FOR T-BAR / HARD-LID CEILING. STANDARD WHITE FINISH. REFER TO FLOOR PLANS FOR NECK SIZES. PROVIDE PLASTER FRAME FOR SURFACE MOUNT.
SD-2	SUPPLY	PRICE	AND	SURFACE	ALUMINUM SUPPLY NOZZLE DIFFUSER. 60° ADJUSTABLE DEFLECTION CORE. REFER TO FLOOR PLANS FOR NECK SIZES. STANDARD WHITE FINISH.
SD-3	SUPPLY	PRICE	520D	SURFACE	STEEL DOUBLE DEFLECTION GRILLE. WITH OPPOSED BLADE DAMPER. STANDARD WHITE FINISH. REFER TO FLOOR PLAN FOR GRILLE SIZE.
SD-4	SUPPLY	PRICE	SDS100	SURFACE	LINEAR SLOT ALUMINUM DIFFUSER. SINGLE SLOT 1"-WIDTH. STANDARD WHITE FINISH. REFER TO FLOOR PLAN FOR NECK SIZES.
RG-1	RETURN	PRICE	PDDR	LAY-IN	STEEL PERFORATED RETURN REGISTER. 24"X24" MODULE FOR T-BAR CEILING. STANDARD WHITE FINISH. REFER TO FLOOR PLANS FOR NECK SIZES.
RG-2	RETURN	PRICE	ANR	SURFACE	ALUMINUM RETURN NOZZLE DIFFUSER. NO CORE. REFER TO FLOOR PLANS FOR NECK SIZES. STANDARD WHITE FINISH.
RG-3	RETURN	PRICE	530	SURFACE	LOUVERED STEEL EXHAUST GRILLE - 3/4 BLADE SPACING, 45° SINGLE DEFLECTION. REFER TO FLOOR PLAN FOR GRILLE SIZE.
RG-4	RETURN	PRICE	SDR	SURFACE	LINEAR SLOT ALUMINUM DIFFUSER. NO PATERN CONTROL. STANDARD WHITE FINISH. REFER TO FLOOR PLAN FOR NECK SIZES.
EG-1	RETURN	PRICE	PDDR	LAY-IN	STEEL PERFORATED RETURN REGISTER. 24"X24" MODULE FOR T-BAR CEILING. STANDARD WHITE FINISH. REFER TO FLOOR PLANS FOR NECK SIZES.
EG-2	RETURN	PRICE	530	SURFACE	LOUVERED STEEL EXHAUST GRILLE - 3/4 BLADE SPACING, 45° SINGLE DEFLECTION. REFER TO FLOOR PLAN FOR GRILLE SIZE.

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MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

CoM NO.: CP230060
AIP NO.: 3-06-0152-030-2023
M&H NO.: R4665943-223096.02
DATE: 04.21.2023
DESIGNED BY: PPE
DRAWN BY: PPE
CHECKED BY: PPE

DO NOT SCALE DRAWINGS

SHEET CONTENTS
MECHANICAL EQUIPMENT SCHEDULES

SHEET NO.:
M-001

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 7 of 15
Project Address:	20 Macready Drive Merced 95641	Calculation Date/Time:	12:09, Fri, Apr 21, 2023
Input File Name:	230324_MCE_Permit.cibd19x		

G6. OVERHANG DETAILS

1	2	3	4	5	6
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)
Window139	South	6.3	8.6	6.0	6.0
Window140	South	2.0	9.7	3.0	3.0
Window163	North	2.0	9.6	3.0	3.0

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
DOAS-1	DOASCV (Packaged3Phase)	1	97	51	COP	4.40	102	EER	10.3	NoEconomizer	N
CU-4	SZAC (Split3Phase)	1	0	0	NA	Elec. Res.	36	SEER/EER	10.90 / 10.80	NA	N
CU-5	SZAC (Split3Phase)	1	0	0	NA	Elec. Res.	36	SEER/EER	10.90 / 10.80	NA	N
CU-1	VRF	1	80	NA	COP	4.03	72	EER	11.90	NA	N
CU-2	VRF	1	135	NA	COP	3.70	120	EER	12.30	NA	N
CU-3	VRF	1	160	NA	COP	3.57	144	EER	12.20	NA	N

[1] Status: N - New, A – Altered, E – Existing

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA	Supply Fan					Return Fan					
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status[1]
DOAS-1	1	2827	3000	BrakeHorsePower	0.970	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 4 of 15
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G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	2,295 ft²	335 ft²	14.6%
East-Facing[2]	1,914 ft²	306 ft²	16.0%
South-Facing[3]	2,363 ft²	946 ft²	40.0%
West-Facing[4]	1,796 ft²	583 ft²	32.5%
Total	**8,368 ft²**	**2,169 ft²**	**25.9%**
Roof	8,775 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Ext. Wall Assembly - MP29	ExteriorWall	5223	Metal	19	12	U-Factor	0.056	Metal Siding - 1/16 in. Compliance Insulation R12.00 Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.	N
Roof Assembly - EPDM16	Roof	5640	Metal	30	NA	U-Factor	0.058	Metal Standing Seam - 1/16 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Metal framed roof, 24in. OC, 9.25in., R-30 Air - Roof - 3 1/2 in. Air - Roof - 3 1/2 in.	N

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 1 of 15
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A. GENERAL INFORMATION

1	Project Location (city)	Merced	8	Standards Version	Compliance2019
2	CA Zip Code	95641	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	12	10	Weather File	MERCED_724815_CZ2010.epw
4	Total Conditioned Floor Area in Scope	8,775 ft²	11	Building Orientation (deg)	(N) 12 deg
5	Total Unconditioned Floor Area	1,180 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
				Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☒ Performance ☐ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	*NRCC -LTS-E*
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒ Performance ☐ Not Included			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
				Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Commissioning §120.8	*NRCC-CXR-E*
				Solar Ready §110.10	*NRCC-SRA-E*

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Input File Name:	230324_MCE_Permit.cibd19x		

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA	Supply Fan					Return Fan					
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status[1]
2-FC-1-VRF	1	0	883	BrakeHorsePower	0.280	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-FC-2-VRF	1	0	883	BrakeHorsePower	0.280	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-FC-3-VRF	1	0	600	BrakeHorsePower	0.059	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-FC-4-VRF	1	0	1412	BrakeHorsePower	0.292	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-FC-5-VRF	1	0	2542	BrakeHorsePower	1.210	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
7-FC-6-VRF	1	0	600	BrakeHorsePower	0.059	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
8-FC-7-VRF	1	0	2542	BrakeHorsePower	1.210	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
9-FC-8-VRF	1	0	2542	BrakeHorsePower	1.210	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
CU-4	1	0	990	BrakeHorsePower	0.215	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
CU-5	1	0	990	BrakeHorsePower	0.215	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] Status: N - New, A – Altered, E – Existing

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
FC-13	1-FC-1	1	575	0.050	0.076	0.36	N
FC-370	3-FC-3	1	215	0.070	0.284	1.34	N
FC-6143	6-FC-6	1	600	0.100	0.145	0.69	N
EF-2189	9-EF-2	1	2,100	0.330	0.137	0.65	N
EF-3193	10-EF-3	1	450	0.050	0.097	0.46	N
EF-4202	11-EF-4	1	600	0.040	0.058	0.27	N

[1] Status: N - New, A – Altered, E – Existing

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 5 of 15
Project Address:	20 Macready Drive Merced 95641	Calculation Date/Time:	12:09, Fri, Apr 21, 2023
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G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Slab On Grade18	UndergroundFloor	9955	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	N
Ext. Wall Assembly - MP120	ExteriorWall	3043	Metal	19	12	U-Factor	0.056	Metal Siding - 1/16 in. Compliance Insulation R12.00 Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.	N
Roof Assembly - Standing89	Roof	4175	Metal	30	NA	U-Factor	0.064	Metal Standing Seam - 1/16 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Metal framed roof, 24in. OC, 9.25in., R-30 Metal Deck - 1/16 in.	N
R-21 Wall162	ExteriorWall	105	Wood	21	NA	U-Factor	0.069	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 1/2 in.	N
Wood Framed R25188	Roof	140	Wood	25	NA	U-Factor	0.040	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Ceiling - 3/4 in. Wood framed roof, 16in. OC, 9.25in., R-25 Gypsum Board - 1/2 in.	N

[1] Status: N - New, A – Altered, E – Existing

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 2 of 15
Project Address:	20 Macready Drive Merced 95641	Calculation Date/Time:	12:09, Fri, Apr 21, 2023
Input File Name:	230324_MCE_Permit.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	25.91	31.26	-5.35
Space Cooling	119.24	123.06	-3.82
Indoor Fans	132.00	100.91	31.09
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	4.32	2.77	1.55
Indoor Lighting	54.14	56.72	-2.58
ENERGY STANDARDS COMPLIANCE TOTAL	**335.61**	**314.72**	**20.89 (6.2%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	122.90	122.90	--
Process	--	--	--
Other Ltg	7.18	7.18	--
Process Motors	1.88	7.13	-5.25
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**467.57**	**451.93**	**15.6 (3.3%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 9 of 15
Project Address:	20 Macready Drive Merced 95641	Calculation Date/Time:	12:09, Fri, Apr 21, 2023
Input File Name:	230324_MCE_Permit.cibd19x		

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
Main Plant1 - SHW	Service Hot Water, Primary Only	NA	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
	Mechanical Ventilation					
Zone Name	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-FC-1	Office - Office space	2.85	86	575	570	NA
2-FC-2	Office - Office space	4.78	143	0	955	NA
3-FC-3	Misc - Sorting, packing, light assembly	11.17	101	215	670	NA
4-FC-4	Assembly - Lobbies	26.50	795	0	1590	NA
5-FC-5	Misc - All others	39.50	178	0	1185	NA
6-FC-6	Office - Office space	3.67	110	600	735	NA
7-FC-7	Assembly - Lobbies	31.66	950	0	1900	NA
8-FC-8	Misc - Transportation waiting	15.50	465	0	930	NA
12-FC-9	General - Unoccupied	0.27	0	0	180	NA
13-FC-10	General - Unoccupied	0.09	0	0	60	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 6 of 15
Project Address:	20 Macready Drive Merced 95641	Calculation Date/Time:	12:09, Fri, Apr 21, 2023
Input File Name:	230324_MCE_Permit.cibd19x		

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Solarban70 Clear Glazing	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	2169	0.28	0.27	0.64	N
Solarban70 Clear Glazing_Clerestory	VerticalFenestration FixedWindow N/A			NaN	0.28	0.27	0.00	N

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] Status: N - New, A – Altered, E – Existing

G6. OVERHANG DETAILS

1	2	3	4	5	6
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)
Window43	South	2.0	10.1	3.0	3.0
Window69	North	2.0	9.6	3.0	3.0
Window83	South	2.0	10.1	3.0	3.0
Window97	North	2.0	10.1	3.0	3.0
Window98	North	6.3	8.5	6.0	6.0
Window107	West	2.3	10.3	2.0	2.0
Window108	West	2.0	9.6	3.0	3.0
Window117	East	2.3	5.5	2.0	2.0
Window122	East	2.3	5.8	2.0	2.0
Window124	South	6.3	8.6	6.0	6.0
Window125	South	2.0	10.1	3.0	3.0
Window129	South	6.3	8.5	6.0	6.0
Window130	South	2.0	9.5	3.0	3.0
Window134	South	2.0	9.7	3.0	3.0
Window135	South	6.3	8.6	6.0	6.0

Project Name:	Yosemite Regional Airport	NRCC-PRF-01-E	Page 3 of 15
Project Address:	20 Macready Drive Merced 95641	Calculation Date/Time:	12:09, Fri, Apr 21, 2023
Input File Name:	230324_MCE_Permit.cibd19x		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	11.2	-11.2	110.8	--	110.8
Space Cooling	23.3	24.1	-0.8	--	--	--
Indoor Fans	38.0	30.5	7.5	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	1.5	1.0	0.5	--	--	--
Indoor Lighting	16.0	16.7	-0.7	--	--	-->
Compliance Total	**78.8**	**83.5**	**-4.7**	**110.8**	**0.0**	**110.8**
Receptacle	36.2	36.2	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	2.1	2.1	0.0	--	--	--
Process Motors	0.6	2.1	-1.5	--	--	--
TOTAL	**117.7**	**123.9**	**-6.2**	**110.8**	**0.0**	**110.8**

D. EXCEPTIONAL CONDITIONS

The proposed building includes HVAC components that do not meet the mandatory efficiency requirements.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

E. HERS VERIFICATION

This Section Does Not Apply

Mead & Hunt
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phone: 707-526-5010
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MERCED YOSEMITE REGIONAL AIRPORT TERMINAL REPLACEMENT PROJECT 2023

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

03/30/23 PERMIT SUBMITTAL / BID SET
3 04/24/23 ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-223096.02
DATE:	04.21.2023
DESIGNED BY:	PPE
DRAWN BY:	PPE
CHECKED BY:	PPE

DO NOT SCALE DRAWINGS

SHEET CONTENTS
MECHANICAL TITLE 24

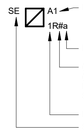
SHEET NO.:

M-501

LUMINAIRE SYMBOLS

- RECESSED LUMINAIRE
- RECESSED TROFFER
- RECESSED LINEAR
- SURFACE ROUND LUMINAIRE
- SURFACE SQUARE LUMINAIRE
- SURFACE LINEAR/INDUSTRIAL LUMINAIRE
- SURFACE COVE STRIP
- PENDANT ROUND LUMINAIRE
- PENDANT SQUARE LUMINAIRE
- PENDANT LINEAR/INDUSTRIAL LUMINAIRE
- (#) TRACK (# INDICATES NUMBER TRACK HEADS)
- WALL SURFACE LUMINAIRE
- WALL RECESSED LUMINAIRE
- WALL SURFACE LINEAR
- WALL RECESSED LINEAR
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- WALL MOUNTED COMBINATION EXIT SIGN/EBU
- ARROW DENOTES EXIT SIGN CHEVRON
- EMERGENCY BATTERY UNIT
- RECESSED EMERGENCY BATTERY UNIT
- WALL WASH MODIFIER
- EMERGENCY (NEC 700) SHADING MODIFIER
- LEGALLY REQUIRED STANDBY (NEC 701) AND OPTIONAL STANDBY (NEC 702) SHADING MODIFIER

LUMINAIRE CIRCUITRY & CONTROL KEY:



- LUMINAIRE TYPE
- LOWER CASE LETTER INDICATES SWITCHLEG CONTROL
- (R#) INDICATES CENTRALIZED LOW VOLTAGE RELAY NUMBER (Z#) INDICATES DISTRIBUTED LOW VOLTAGE RELAY NUMBER REFER TO LIGHTING CONTROL PANEL AND ROOM CONTROLLER SCHEDULES
- NUMBER INDICATES BRANCH PANEL CIRCUIT NUMBER
- SE: DENOTES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY AND/OR EMERGENCY CIRCUIT UPON LOSS OF POWER. NL: DENOTES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.

LUMINAIRE CONTROL SYMBOLS

- OS — OCCUPANCY SENSOR CEILING MOUNT
- OS — OCCUPANCY SENSOR CORNER (WALL/CEILING) MOUNT
- OS — DAYLIGHT SENSOR
- OS — VACANCY SENSOR CEILING MOUNT
- TC — ELECTRONIC TIME CLOCK
- PC — PHOTOCELL
- LCP-X — LIGHTING CONTROL PANEL (x REPRESENTS PANEL DESIGNATION)
- PS — REMOTE POWER SUPPLY OR DRIVER
- D — DIMMER CONTROL STATION MULTI-PRESET MODULAR DIMMING SYSTEM

DIMMER NOTATIONS:

MCS	DENOTES MASTER CONTROL STATION
RS	DENOTES REMOTE STATION
ES	ENTRY STATION
PS	PARTITION STATION

- L* — LOW VOLTAGE SWITCH * DENOTES SWITCH NAME, SEE LIGHTING CONTROL PANEL & SWITCH SCHEDULE.
- S — SINGLE POLE SWITCH

SWITCH NOTATIONS:

a,b	LOWER CASE LETTERS DENOTE SWITCHLEG
3	DENOTES 3-WAY SWITCH
4	DENOTES 4-WAY SWITCH
C	MAINTAINED CONTACT, THREE POSITION, CENTER OFF
D	DENOTES WALL BOX DIMMER SWITCH
DOS	DIMMER OCCUPANCY SENSOR SWITCH
OSX	DENOTES OCCUPANCY SENSOR (X REPRESENTS SCHEDULE DESIGNATION)
P	DENOTES PILOT SWITCH
PB	PUSH BUTTON
VSX	DENOTES VACANCY SENSOR (X REPRESENTS SCHEDULE DESIGNATION)
WL	DENOTES WET LOCATION SWITCH

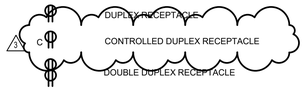
SERVICE & DISTRIBUTION SYMBOLS

- GAP — GENERATOR ANNUNICATOR PANEL
- EPO X — EMERGENCY POWER OFF SWITCH, MUSHROOM HEAD PUSH BUTTON AT 48" AFF. B: DENOTES BOILER SHUT-OFF NAMEPLATE G: DENOTES GENERATOR SHUT-OFF NAMEPLATE
- PANELBOARD
- C — CONTACTOR
- P — PUSH BUTTON

GROUNDING & LIGHTNING PROTECTION SYMBOLS

- GROUND ACCESS WELL
- GROUND ROD
- GR — STATIC GROUND RECEPTACLE
- G — GROUNDING CONDUCTOR
- EGB — EQUIPMENT GROUND BUS

WIRING DEVICE SYMBOLS

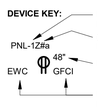


- DUPLEX RECEPTACLE
- CONTROLLED DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- ABOVE COUNTER DUPLEX RECEPTACLE
- SPECIFIC USE RECEPTACLE. NEMA CONFIGURATIONS NOTED ON DRAWINGS AND/OR SCHEDULE.
- F — FLOOR BOX
- P — POKE THRU
- C — CEILING MOUNTED DUPLEX RECEPTACLE
- C — CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE
- C — CEILING MOUNTED SPECIFIC USE RECEPTACLE. NEMA CONFIGURATIONS NOTED ON DRAWINGS AND/OR SCHEDULE.
- SURFACE METAL RACEWAY - REFER TO DRAWINGS AND/OR SPECIFICATIONS, MOUNTED 6" ABOVE COUNTER OR AT HEIGHT AS INDICATED.
- P — DATA/POWER POLE

RECEPTACLE NOTATIONS:

D	DENOTES DEDICATED OUTLETS
EWC	DENOTES ELECTRIC WATER COOLER OUTLETS
GFCI	DENOTES GROUND FAULT INTERRUPTER OUTLETS
FP	DENOTES FLAT PANEL DISPLAY OUTLETS
TR	DENOTES TAMPER RESISTANT SAFETY OUTLETS
USB	DENOTES COMBINATION DUPLEX/USB OUTLETS
WP	DENOTES WEATHER PROOF OUTLETS

DEVICE KEY:



- INDICATES BRANCH PANEL & CIRCUIT NUMBER
- (Z#) INDICATES DISTRIBUTED LOW VOLTAGE RELAY NUMBER REFER TO LIGHTING CONTROL PANEL SCHEDULES
- INDICATES MOUNTING HEIGHT
- INDICATES DEVICE NOTATION OR EQUIPMENT NAME/DESCRIPTION

SLASH MAY BE USED TO SEPARATE INFORMATION . EX: 48"/GFCI

RACEWAY SYMBOLS

- SURFACE MOUNTED CONDUIT
- CONCEALED CONDUIT IN CEILING OR WALL
- WIREWAY, SIZE AND TYPE AS INDICATED ON DRAWINGS
- CABLE TRAY, SIZE AND TYPE AS INDICATED ON DRAWINGS
- UNDERFLOOR DUCT
- J — JUNCTION BOX - CEILING MOUNTED
- J — JUNCTION BOX - WALL MOUNTED

MOTOR CONTROL & PROTECTIVE DEVICE SYMBOLS

- ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZED PER NEC. COORDINATE REQUIREMENTS WITH CONTRACTOR FURNISHING MOTOR OR EQUIPMENT. REFER TO SPECIFICATIONS AND EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL WORK ASSOCIATED WITH MOTOR OR EQUIPMENT.
- COMBINATION MAGNETIC CONTROLLER
- M — INTEGRAL HORSEPOWER MANUAL CONTROLLER
- SS — COMBINATION REDUCED VOLTAGE SOLID STATE CONTROLLER
- SS — REDUCED VOLTAGE SOLID STATE CONTROLLER
- VFD — VARIABLE FREQUENCY MOTOR CONTROLLER
- MAGNETIC CONTROLLER - FULL VOLTAGE, ACROSS THE LINE, ELECTRICALLY HELD
- NON-FUSIBLE DISCONNECT SWITCH
- FUSIBLE DISCONNECT SWITCH
- DOUBLE THROW SWITCH
- S_{FS} — FUSED SINGLE POLE SWITCH
- S_{MS} — MOTOR STARTING SWITCH WITH OVERLOADS
- S_{MX} — MOTOR STARTING SWITCH WITHOUT OVERLOADS
- MS — MULTI SPEED MAGNETIC CONTROLLER
- MS — COMBINATION MULTI SPEED MAGNETIC CONTROLLER
- ATS — AUTOMATIC TRANSFER SWITCH
- MTS — MANUAL TRANSFER SWITCH
- ENCLOSED CIRCUIT BREAKER
- OPTIONAL STANDBY (CEC 702) SHADING MODIFIER

SITE SYMBOLS

- E — ELECTRIC HANDHOLE
- ELECTRIC PEDESTAL BOX
- BOLLARD LIGHT
- DOUBLE LIGHT POLE
- LIGHT POLE
- POST TOP LIGHT POLE

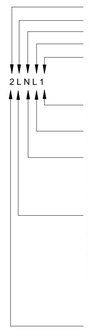
GENERAL SYMBOLS

- #/E-### — DETAIL NUMBER / SHEET NUMBER
- 9.### — KEYED NOTE, USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.

LINE TYPE KEY

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE)
- EXISTING TO REMAIN WORK (THIN SOLID LINE)
- NEW WORK UNDER FLOOR BY THIS CONTRACTOR
- ONE-LINE EQUIPMENT ENCLOSURE
- PANEL DIVISION LINES
- CON — SITE UNDERGROUND CONDUIT
- //CON// — SITE REMOVED UNDERGROUND CONDUIT
- E — SITE UNDERGROUND ELECTRIC
- OHE — SITE OVERHEAD ELECTRIC
- //OHE// — SITE REMOVED OVERHEAD ELECTRIC
- //E// — SITE REMOVED UNDERGROUND ELECTRIC
- G — SITE GROUND WIRE

PANEL DESIGNATION KEY



- FLOOR
- TYPE
- SYSTEM/SOURCE
- VOLTAGE
- SEQUENCE NUMBER OR LETTER
- NUMBER OR LETTER IN SEQUENCE I.E. 1,2,3 OR A,B,C
- L - 208Y/120V H - 480Y/277V
- N - NORMAL BRANCH U - UNINTERRUPTIBLE SOURCE E - EMERGENCY BRANCH (NEC 700) X - LEGALLY REQUIRED STANDBY BRANCH (NEC 701) O - OPTIONAL STANDBY BRANCH (NEC 702)
- L - LIGHTING PANELBOARD D - DISTRIBUTION PANELBOARD P - POWER/EQUIPMENT PANELBOARD R - RECEPTACLE PANELBOARD MSB - MAIN SWITCHBOARD MCC - MOTOR CONTROL CENTER H- HVAC PANELBOARD W - DOMESTIC WATER SYSTEM PANELBOARD
- G - GROUND FLOOR B - BASEMENT FLOOR 1 - FIRST FLOOR P - PENTHOUSE M - MEZZANINE

ELECTRICAL ABBREVIATIONS

3R	NEMA 3R RATING
A	AMPERES
A/E	ARCHITECT / ENGINEER
AAC	ABOVE ACCESSIBLE CEILING
ACCU	AIR COOLED CONDENSING UNIT
ADO	AUTOMATIC DOOR OPENER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APE	AIRCRAFT PROCESS EQUIPMENT
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CEB	CONCRETE EQUIPMENT BASE
CF	CIRCULATION FAN
CKT	CIRCUIT
CP	CIRCULATION PUMP
CRP	CONDENSATION RETURN
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
DDC	DIGITAL CONTROL PANEL
DISC	DISCONNECT
DO	DOOR OPERATOR
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ERL	EXISTING TO BE RELOCATED
ERLD	EXISTING - RELOCATED LOCATION
ES	EQUIPMENT SUPPLIER
ETR	EXISTING TO REMAIN
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRICAL WATER HEATER
F	FUSED
FA	FIRE ALARM
FCU	FAN COIL UNIT
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GWH	GAS WATER HEATER
HD	HAND DRYER
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWB	HOT WATER BOILER
HWP	HOT WATER PUMP
IEWH	INSTANTANEOUS ELECTRIC WATER HEATER
IMC	INTERMEDIATE METALLIC CONDUIT
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
LFS	LIGHTING FIXTURE SCHEDULE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MIN.	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NL/EL	NIGHT LIGHT AND EMERGENCY LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OHD	OVERHEAD DOOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RCP	RADIANT CEILING PANEL
RECPT	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL CONDUIT MAY ALSO BE REFERENCED AS RMC OR GRC
RMC	RIGID METAL CONDUIT
RTU	ROOF TOP UNIT
S/N	SOLID NEUTRAL
SE	SERVICE ENTRANCE
SF	SUPPLY FAN
SP	SUMP PUMP
SS	STAINLESS STEEL
SW	SWITCH
TCP	TEMPERATURE CONTROL PANEL
TYP	TYPICAL
UC	UNIT COOLER
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATER
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VS	VERSUS
W	WATTS
WCC	WATER COOLED CONDENSER
WFE	WELDING FUME EXTRACTOR
WH	WATER HEATER
WL	WET LOCATION LISTED
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES:

1. REFER TO THE G SERIES DRAWINGS FOR CODE ANALYSIS PLANS, INFORMATION AND NOTES.
2. ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS PROJECT ARE REQUIRED TO QUALIFY FOR THE "BUY AMERICAN" CLAUSE PER CARES ACT REQUIREMENT OR PROVIDE THE APPROPRIATE WAIVERS TO BE APPROVED.
3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
4. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND ABA (ARCHITECTURAL BARRIERS ACT).
5. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND FLOORS. MAKE RATED PENETRATIONS AS REQUIRED. SEAL ALL RATED PENETRATIONS. REFER TO DIV. 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
6. FLUSH-MOUNT ALL LIGHTING CONTROL DEVICES AT 42" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
7. FLUSH-MOUNT ALL RECEPTACLES AT 18" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
8. MOUNT ALL FIRE ALARM PULL STATIONS AT 42" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
9. MOUNT ALL WALL-MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT IS MEASURED TO TOP OF DEVICE.
10. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL SCHEDULES PROVIDED. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. COMMON NEUTRALS MAY BE USED FOR BRANCH CIRCUITS.
11. CIRCUITS SERVING EMERGENCY AND EXIT LUMINAIRES SHALL BE RUN IN SEPARATE RACEWAY FROM ALL OTHER CIRCUITS.
12. A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
13. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE. WHERE RACEWAY IS REQUIRED ON EXISTING CONCRETE AND MASONRY WALLS, SURFACE RACEWAY MAY BE USED IN LIEU OF CHANNELING WALLS TO ALLOW CONCEALED ROUTING. THE RACEWAY SHALL BE SINGLE CHANNEL STYLE TYPE WITH IVORY FINISH, THIS APPLIES FOR BRANCH CIRCUIT CONDUITS UP TO 3/4" SIZE. CONDUITS LARGER THAN 3/4" MAY BE ROUTED EXPOSED, BUT INSTALLED PARALLEL AND/OR PERPENDICULAR TO BUILDING LINES AND RUN AS UNOBTRUSIVELY AS POSSIBLE.
14. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
15. COORDINATE AND CO-LOCATE WALL MOUNTED RECEPTACLE LOCATIONS WITH TECHNOLOGY (VOICE/DATA,CATV,FIDS, ETC) OUTLETS SHOWN ON THE T-SERIES DRAWINGS UNLESS OTHERWISE NOTED, EACH TECHNOLOGY OUTLET SHALL BE LOCATED WITHIN 24"OF ITS ASSOCIATED RECEPTACLE. ASSOCIATED RECEPTACLE SHALL BE DEFINED AS THE RECEPTACLE NEAREST THE LOCATION OF, AND AT THE SAME HEIGHT AS,THE TECHNOLOGY OUTLET WHEN MULTIPLE RECEPTACLES ARE SHOWN ON A WALL.
16. DUPLEX RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
17. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
18. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
19. ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
20. CONTRACTOR TO PROVIDE SUITABLE MECHANICAL PROTECTION AROUND ALL CONDUITS STUBBED OUT FROM FLOORS, WALLS OR CEILINGS DURING CONSTRUCTION TO PREVENT BENDING OR DAMAGING OF STUB OUTS DUE TO CARELESSNESS WITH CONSTRUCTION EQUIPMENT.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
22. SCCR RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATINGS. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
23. ALL CONDUITS MOUNTED IN EXPOSED CEILING ROOMS/AREA SHALL BE MOUNTED TIGHT TO ROOF STRUCTURE OR STRUCTURAL BEAMS TO BEST HIDE THEM FROM VIEW UNLESS NOTED OTHERWISE
24. ARC FLASH WARNING MARKINGS SHALL BE INSTALLED ON ALL EQUIPMENT PER CEC 110.16
25. FAULT CURRENT SHALL BE CALCULATED AND POSTED ON SITE PRIOR TO FINAL INSPECTION PER CEC 110.24

Mead & Hunt, Inc.
1360 19th Hole Drive, Suite 200
Windsor CA 95492
phone: 707-526-5010
meadhunt.com

MERCED

MERCED YOSEMITE REGIONAL AIRPORT
MERCED TERMINAL AREA PLAN

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.01
DATE:	03.30.2023
DESIGNED BY:	AH
DRAWN BY:	RK
CHECKED BY:	JH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
NOTES, SYMBOLS & ABBREVIATIONS

SHEET NO.:
E-001

4/21/2023 4:38:24 PM C:\Revit Local\220849-05-E-R22_alex.hartour.rvt

STATE OF CALIFORNIA
Nonresidential Building Commissioning
NRCC-CXR-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name:	Merced Yosemite Regional Airport	Report Page: (Page 1 of 7)
Project Address:	20 MACREADY DR, MERCED CA 95641	Date Prepared: 2023-04-20T17:20:48-04:00

This document is used to demonstrate compliance with mandatory commissioning requirements in §120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Building Size (ft²)	10833
02	Occupancy Type	Nonresidential	05	Nonresidential Conditioned Floor Area (ft²)	10,900 - 49,999 ft²
03	Project Type	Newly constructed	06	HVAC System Type	All other HVAC system types (indicates "complex")

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per §120.8. Table B is not editable by the user.

Commissioning Requirements per §120.8

01	Table F: Design Review Kickoff	§120.8(d)1 and §120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	§120.8(b)	The owner's project requirements establish the owner's goals, requirements and expectations for everything related to energy consumption and operation. This should be completed during schematic design.
03	Table H: Basis of Design (BOD)	§120.8(c)	The basis of design documents the design elements such as calculations and product selections that meet the owner's project requirements and applicable regulatory requirements. This should be completed during schematic design.
04	Table I: Design Review	§120.8(d) and §120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	§120.8(f)	The commissioning plan is developed by the commissioning provider with input from the designer and defines the scope of commissioning the project. This should be drafted during design and completed during early construction.
06	Table K: Functional Performance Testing	§120.8(g)	Functional performance testing is conducted on building systems to demonstrate correct installation and operation.
07	Table L: Documentation and Training	§120.8(h)	Documentation of the operational aspects of the building shall be completed within the Systems Manual and delivered to the building owner or representative and facilities operator.
08	Table M: Commissioning Report	§120.8(i)	A complete report of commissioning process activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or representative.

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STATE OF CALIFORNIA
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per §120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	Compliance Results
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	COMPLIES
10	Design Reviewer(s) for the project include:				Fabian Serkis			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

Table G. indicates that the Owner's Project Requirements (OPR) document is attached to the permit application.
Table H. indicates that a Basis of Design (BOD) document is attached to the permit application.
Table I. indicates that a Design Review document is attached to the permit application.
Table J. indicates that a draft commissioning plan is attached to the permit application.

E. ADDITIONAL REMARKS

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

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F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per §120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting				2023-01-09
03	Meeting Attendees: (one person may plus multiple roles)				
☒	Owner/Facility Manager:	Michael Beltran	☐	Design Reviewer(s):	
☒	Project Manager:	Joe Cruz	☒	Design Architect/ Engineer(s):	Magda Prendergast
☐	Contractor:		☐	Certified Acceptance Test Tech(s):	
☐	Commissioning Provider:		☒	Energy/ T24 Part 6 Consultant:	Fabian Serkis

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1

03	The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.		Do the Design Reviewer(s) meet these qualifications?	
			Yes	No
	In addition, for buildings with >= 10,000 ft² but < 50,000², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor		○	●
04	The design reviewer(s) for this project will be:	Fabian Serkis		

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design	2022-10-01	2023-01-06
06	Design Development	2023-01-06	2023-01-31
07	Construction Documents	2023-01-31	2023-03-29
08	Construction	2023-05-05	2024-04-30
09	Building Turnover	2024-04-30	2024-05-07

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This table is only completed if an OPR document is not attached to permit application to demonstrate compliance with §120.8(b). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per §120.8(b), the OPR is to be completed before design begins. This may be done at the Design Review Kickoff Meeting (see Table F).

		YES	NO
01	Attaching Completed Owner's Project Requirements Document?	●	○

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H. BASIS OF DESIGN (BOD)

This table is only completed if a BOD document is not attached to the permit application to demonstrate compliance with §120.8(c). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per §120.8(c), the BOD should be completed and updated during the design phase.

		YES	NO
01	Attaching Completed Document Basis of Design	●	○
02	Basis of Design Document Authors and Roles	Joe Cruz/Project Manager and Jeff McEntee/Commissioning Specialist	

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with §120.8(h) and §120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	●	○

J. COMMISSIONING PLAN

This table is only completed if a Commissioning Plan document is not attached to permit application to demonstrate compliance with §120.8(f). Per §120.8(f), the Commissioning Plan is to be started during the design phase and a completed draft must be submitted with permit application

		YES	NO
01	Attaching Completed Commissioning Plan?	●	○
02	Commissioning Plan Authors and Roles	Jeff McEntee	

K. FUNCTIONAL PERFORMANCE TESTING

The table below is completed to demonstrate compliance with functional performance testing requirements per §120.8(g).

By checking this box, the responsible party[1] certifies that functional performance testing will be executed to demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the acceptance test requirements in §120.5, §130.4 and §140.9. The 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.	01 ☒

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K. FUNCTIONAL PERFORMANCE TESTING

The following acceptance tests have been identified as applicable to the project scope:[2]

02	03	04	05
System/ Equipment to be Tested	Brief description of functional performance test	Applicable Reference Appendix	Certified Acceptance Test Technician Required?
DOAS-1	Functional performance test	NA7.5.1 Outdoor Air	No
LCP-A	Functional, coordinated control scheme	NA7.8.8 Automatic Scheduling	Yes

The acceptance tests required by Title 24, Part 6 outline the minimum functional performance testing scope to be conducted for compliance. However, the commissioning scope may include additional functional performance tests on systems or equipment not having acceptance tests required by Title 24 Part 6.

The following additional functional performance tests have been requested by the owner or owner's representative:

06	07
System/ Equipment to be Tested	Brief description of functional performance test

[1]FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.
[2]Required acceptance tests can be determined by reviewing the "Certificates of Acceptance" table on each Certificate of Compliance submitted for permit application.

L. DOCUMENTATION AND TRAINING

The table below is completed to demonstrate compliance with documentation and training requirements per §120.8(h)

By checking this box, the responsible party[1] certifies that a systems manual will be provided to the building owner or representative per §120.8(h)1.	01 ☒
By checking this box, the responsible party[1] certifies that a training of the appropriate maintenance staff for each equipment and system will be completed and documented in the commissioning report per §120.8(h)2. Training requirements should be included in the contract document in the specifications.	02 ☒

[1]FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.

M. COMMISSIONING REPORT

The table below is completed to demonstrate compliance with commissioning report requirements per §120.8(i)

By checking this box, the responsible party[1] certifies that a complete report of commissioning process' activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or owner's representative.	01 ☒

[1] FOOTNOTES: See the signature block on the last page of this compliance document for the responsible party.

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no Certificates of Installation applicable to commissioning requirements.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Although there are no "CXR" Certificates of Acceptance required to document commissioning requirements, Certificates of Acceptance may be used to supplement functional performance testing required by §120.8(g).

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Alex Harbour	Documentation Author Signature:	
Company:	Mead and Hunt	Signature Date:	03/29/2023
Address:	1710 LAWRENCE DR	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	DE PERE, WI 54115	Phone:	920-593-6863

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	JOHN HLADICK	Responsible Designer Signature:	
Company:	MEAD AND HUNT	Date Signed:	03/29/2023
Address:	10760 W RESEARCH DR, SUITE 105	License:	20797
City/State/Zip:	WAUWATOSA, WI 53226	Phone:	(262)-790-5232

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Merced Yosemite Regional Airport	Report Page: (Page 1 of 6)
Project Address:	20 MACREADY DR, MERCED CA 95641	Date Prepared: 2023-04-20T16:54:41-04:00

This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(b) or §141.0(b)2F for alterations..

A. GENERAL INFORMATION

01	Project Location (city)	Merced
02	Occupancy Types Within Project:	

● Office ● Support Areas ● :

B. PROJECT SCOPE

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

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a)[2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
On the North side of the building, in the mechanic yard	New electrical service equipment and meter	215	☒	☐
06 Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.			

[1]FOOTNOTE: Adding only new feeders and branch circuits triggers Voltage Drop §130.5(c), no other requirements from §130.5 are required.
[2] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

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

01		02		03		04		05
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)		
	AND	Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

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STATE OF CALIFORNIA
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D. EXCEPTIONAL CONDITIONS

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

Table B indicates the project is exempt from §130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This section does not apply to this project.

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G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
On the North side of the building, in the mechanic yard					
HVAC systems and components	All HVAC in aggregate	Method 1	In the panel schedules on E-603 and E-604	☐	☐
Lighting including exit, egress and exterior	All lighting in aggregate	Method 1	In the panel schedules on E-603 and E-604	☐	☐
Charging stations for electrical vehicle	All loads in aggregate	Method 1	In the panel schedules on E-603, E-604, and E-605	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1	In the panel schedules on E-603 and E-604	☐	☐
Domestic and service water systems	All loads in aggregate	Method 1	In the panel schedules on E-603, E-604, and E-605	☐	☐

** NOTES: If "Other**" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1 - Individually motor control centers/ panelboard loads disaggregated for each load type.
Method 2 - Switchboard, motor control centers, panelboard supply side distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and are added below branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2F0.

01	02	03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
				Pass	Fail

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Compliance ID: 95672 Report Generated: 2023-04-20 13:54:45

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Merced Yosemite Regional Airport	Report Page: (Page 4 of 6)
Project Address:	20 MACREADY DR, MERCED CA 95641	Date Prepared: 2023-04-20T16:54:41-04:00

H. VOLTAGE DROP

On the North side of the building, in the mechanic yard	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))[*]	In construction documents	E-006, E-701	☐ ☐

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

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

I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail
TSA 110	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	Sheets E-101, E-121, E-501, E-602	☐	☐
Training 110 and Office 121C	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	Sheets E-101, E-121, E-501, E-602	☐	☐
ATA Office 141 and Office 151	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	Sheets E-101, E-121, E-501, E-602	☐	☐
Office 148 and Office 149	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	Sheets E-101, E-121, E-501, E-602	☐	☐
Open Office 146	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	Sheets E-101, E-121, E-501, E-602	☐	☐
Conference Room 150	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	Sheets E-101, E-121, E-501, E-602	☐	☐

** NOTES: If "Other**" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Compliance ID: 95672 Report Generated: 2023-04-20 13:54:45

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Merced Yosemite Regional Airport	Report Page: (Page 5 of 6)
Project Address:	20 MACREADY DR, MERCED CA 95641	Date Prepared: 2023-04-20T16:54:41-04:00

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-ELC-01-E - Must be submitted for all buildings

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Compliance ID: 95672 Report Generated: 2023-04-20 13:54:45

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Merced Yosemite Regional Airport	Report Page: (Page 6 of 6)
Project Address:	20 MACREADY DR, MERCED CA 95641	Date Prepared: 2023-04-20T16:54:41-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Alex Harbour	Documentation Author Signature:	
Company:	Mead and Hunt	Signature Date:	03/29/2023
Address:	1710 LAWRENCE DR	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	DE PERE, WI 54115	Phone:	920-593-6863

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	JOHN HLADICK	Responsible Designer Signature:	
Company:	MEAD AND HUNT	Date Signed:	03/29/2023
Address:	10760 W RESEARCH DR, SUITE 105	License:	20797
City/State/Zip:	WAUWATOSA, WI 53226	Phone:	(262)-790-5232

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Compliance ID: 95672 Report Generated: 2023-04-20 13:54:45

Mead & Hunt, Inc.
1360 19th Hole Drive,
Suite 200
Windsor CA 95492
phone: 707-526-5010
meadhunt.com

MERCED

MERCED YOSEMITE REGIONAL AIRPORT
MERCED TERMINAL AREA PLAN

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.01
DATE:	03.30.2023
DESIGNED BY:	AH
DRAWN BY:	RK
CHECKED BY:	JH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
TITLE 24 DOCUMENTATION - ELECTRICAL

SHEET NO.:
E-002

C:\Revit Local\220849.01-E-R22_alex.harbour.rvt
4/21/2023 4:38:27 PM

208V, 3-PHASE COPPER WIRE

MAXIMUM LENGTH OF CONDUCTOR IN FT TO BE USED PER VA AND WIRE SIZE

kVA	CONDUCTOR SIZE						
	#12	#10	#8	#6	#4	#2	#1
1.2	210ft	336ft	535ft	848ft	1352ft	2146ft	2703ft
2.4	105ft	168ft	268ft	424ft	676ft	1073ft	1352ft
3.6	70ft	112ft	178ft	283ft	451ft	715ft	901ft
4.8	53ft	84ft	134ft	212ft	338ft	536ft	676ft
6	42ft	67ft	107ft	170ft	270ft	429ft	541ft
7.2	35ft	56ft	89ft	141ft	225ft	358ft	451ft
8.4		48ft	76ft	121ft	193ft	307ft	386ft
9.6		42ft	67ft	106ft	169ft	268ft	338ft
10.8		37ft	59ft	94ft	150ft	238ft	300ft
12			54ft	85ft	135ft	215ft	277ft
13.2			49ft	77ft	123ft	195ft	547ftft
14.4			45ft	71ft	113ft	179ft	502ft
15.6				65ft	104ft	165ft	463ft
16.8				61ft	97ft	153ft	430ft
18				57ft	90ft	143ft	401ft
19.2				53ft	84ft	134ft	376ft
20.4					80ft	126ft	354ft
21.6					75ft	119ft	334ft
22.8					71ft	113ft	317ft
24					68ft	107ft	301ft
25.2					64ft	102ft	287ft
26.4						98ft	274ft
27.6						93ft	262ft
28.8						89ft	251ft
30						86ft	241ft
31.2						79ft	232ft
32.4						77ft	223ft
33.6							215ft
34.8							208ft
36							201ft
37.2							194ft
38.4							188ft
39.6							
40.8							
42							
43.2							
44.4							
45.6							
46.8							
48							

BASED ON 2% VOLTAGE DROP ALLOWED FOR BRANCH CIRCUITS PER TITLE 24 2013

VOLTAGE DROP = (CIRCUIT AMPS) X (TWICE THE LENGTH OF CONDUCTOR) X (WIRE RESISTANCE)

208V, 3-PHASE COPPER WIRE

MAXIMUM LENGTH OF CONDUCTOR IN FT TO BE USED PER VA AND WIRE SIZE

kVA	CONDUCTOR SIZE								
	1/0	2/0	3/0	4/0	250KCM	300KCM	350KCM	400KCM	500KCM
3.4	1204ft	1520ft	1918ft	2417ft	2853ft	3425ft	4004ft	4577ft	5695ft
6.8	602ft	760ft	959ft	1208ft	1427ft	1713ft	2002ft	2289ft	2848ft
10.2	401ft	507ft	639ft	806ft	951ft	1142ft	1335ft	1526ft	1898ft
13.6	301ft	380ft	480ft	604ft	713ft	856ft	1001ft	1144ft	1424ft
17	241ft	304ft	384ft	483ft	571ft	685ft	801ft	915ft	1139ft
20.4	201ft	253ft	320ft	403ft	476ft	571ft	667ft	763ft	949ft
23.8	172ft	217ft	274ft	345ft	408ft	489ft	572ft	654ft	814ft
27.2	151ft	190ft	240ft	302ft	357ft	428ft	500ft	572ft	712ft
30.6	134ft	169ft	213ft	269ft	317ft	381ft	445ft	509ft	633ft
34	120ft	152ft	192ft	242ft	285ft	343ft	400ft	458ft	570ft
37.4	109ft	138ft	174ft	220ft	259ft	311ft	364ft	416ft	518ft
40.8	100ft	127ft	160ft	201ft	238ft	285ft	308ft	381ft	475ft
44.2	93ft	117ft	148ft	186ft	219ft	263ft	286ft	352ft	438ft
47.6	86ft	109ft	137ft	173ft	204ft	245ft	267ft	327ft	407ft
51	80ft	101ft	128ft	161ft	190ft	228ft	250ft	305ft	380ft
54.4		95ft	120ft	151ft	178ft	214ft	236ft	286ft	356ft
57.8		89ft	113ft	142ft	168ft	201ft	222ft	269ft	335ft
61.2		84ft	107ft	134ft	159ft	190ft	211ft	254ft	316ft
64.6			101ft	127ft	150ft	180ft	200ft	241ft	300ft
68			96ft	121ft	143ft	171ft	191ft	229ft	285ft
71.4			91ft	115ft	136ft	163ft	182ft	218ft	271ft
74.8				110ft	130ft	156ft	174ft	208ft	259ft
78.2				105ft	124ft	149ft	167ft	199ft	248ft
81.6				101ft	114ft	143ft	160ft	191ft	237ft
85					110ft	137ft	154ft	183ft	228ft
88.4					106ft	132ft	148ft	176ft	219ft
91.8						127ft	143ft	170ft	211ft
95.2						122ft	138ft	163ft	203ft
98.6						118ft	133ft	158ft	196ft
102						114ft	129ft	153ft	190ft
105.4							125ft	148ft	184ft
108.8								143ft	178ft
112.2								139ft	173ft
115.6								135ft	168ft
119								131ft	163ft
122.4									158ft
125.8									154ft
129.2									150ft
132.6									146ft
136									142ft

BASED ON 2% VOLTAGE DROP ALLOWED FOR BRANCH CIRCUITS PER TITLE 24 2013

VOLTAGE DROP = (CIRCUIT AMPS) X (TWICE THE LENGTH OF CONDUCTOR) X (WIRE RESISTANCE)

208V, 1-PHASE COPPER WIRE

MAXIMUM LENGTH OF CONDUCTOR IN FT TO BE USED PER VA AND WIRE SIZE

kVA	CONDUCTOR SIZE						
	#12	#10	#8	#6	#4	#2	#1
0.7	468ft	748ft	1,192ft	1,888ft	3,010ft	4,779ft	6,020ft
1.4	234ft	374ft	596ft	944ft	1,505ft	2,389ft	3,010ft
2.1	156ft	249ft	397ft	629ft	1,003ft	1,593ft	2,007ft
2.8	117ft	187ft	298ft	472ft	753ft	1,195ft	1,505ft
3.5	94ft	150ft	238ft	378ft	602ft	956ft	1,204ft
4.2	78ft	125ft	199ft	315ft	502ft	796ft	1,003ft
4.9		107ft	170ft	270ft	430ft	683ft	860ft
5.6		93ft	149ft	236ft	376ft	597ft	753ft
6.3		83ft	132ft	210ft	334ft	531ft	669ft
7			119ft	189ft	301ft	478ft	602ft
7.7			108ft	172ft	274ft	434ft	547ft
8.4			99ft	157ft	251ft	398ft	502ft
9.1				145ft	232ft	368ft	463ft
9.8				135ft	215ft	341ft	430ft
10.5				126ft	201ft	319ft	401ft
11.2				118ft	188ft	299ft	376ft
11.9					177ft	281ft	354ft
12.6					167ft	265ft	334ft
13.3					158ft	252ft	317ft
14					151ft	239ft	301ft
14.7						225ft	287ft
15.4						217ft	274ft
16.1						208ft	262ft
16.8						199ft	251ft
17.5						191ft	241ft
18.2						184ft	232ft
18.9						177ft	223ft
19.6						171ft	215ft
20.3							208ft
21							201ft
21.7							194ft
22.4							188ft
23.1							
23.8							
24.5							
25.2							
25.9							
26.6							
27.3							
28							

BASED ON 3% VOLTAGE DROP ALLOWED FOR BRANCH CIRCUITS PER TITLE 24 2013

VOLTAGE DROP = (CIRCUIT AMPS) X (TWICE THE LENGTH OF CONDUCTOR) X (WIRE RESISTANCE)

120V, 1-PHASE COPPER WIRE

MAXIMUM LENGTH OF CONDUCTOR IN FT TO BE USED PER VA AND WIRE SIZE

kVA	CONDUCTOR SIZE						
	#12	#10	#8	#6	#4	#2	#1
0.4	273ft	735ft	694ft	1,100ft	1,753ft	2,784ft	3,506ft
0.8	136ft	218ft	347ft	550ft	877ft	1,392ft	1,753ft
1.2	91ft	145ft	231ft	367ft	584ft	928ft	1,169ft
1.6	68ft	109ft	174ft	275ft	438ft	696ft	877ft
2	55ft	87ft	139ft	220ft	361ft	557ft	701ft
2.4	45ft	73ft	116ft	183ft	292ft	464ft	584ft
2.8		62ft	99ft	157ft	250ft	398ft	501ft
3.2		54ft	87ft	137ft	219ft	348ft	438ft
3.6		48ft	77ft	122ft	195ft	309ft	390ft
4			69ft	110ft	175ft	278ft	351ft
4.4			63ft	100ft	159ft	253ft	319ft
4.8			58ft	92ft	146ft	232ft	292ft
5.2				85ft	135ft	214ft	270ft
5.6				79ft	125ft	199ft	250ft
6				73ft	117ft	186ft	234ft
6.4				69ft	110ft	174ft	219ft
6.8					103ft	164ft	206ft
7.2					97ft	155ft	195ft
7.6					92ft	147ft	185ft
8					88ft	139ft	175ft
8.4					83ft	133ft	167ft
8.8						127ft	159ft
9.2						121ft	152ft
9.6						116ft	146ft
10						111ft	140ft
10.4						107ft	135ft
10.8						103ft	130ft
11.2						99ft	125ft
11.6							121ft
12							117ft
12.4							113ft
12.8							110ft
13.2							106ft
13.6							
14							
14.4							
14.8							
15.2							
15.6							
16							

BASED ON 3% VOLTAGE DROP ALLOWED FOR BRANCH CIRCUITS PER TITLE 24 2013

VOLTAGE DROP = (CIRCUIT AMPS) X (TWICE THE LENGTH OF CONDUCTOR) X (WIRE RESISTANCE)

Voltage Drop Calculations

Data Entry Window

1	208	Select voltage	Printable View: Yes
2	3%	Select the max desired voltage drop (0%-5%)	
3	Three Phase	Select phase type	
4	Stranded Copper Coated	Select the type of wire	
5	350 kcmil *	Select the size of wire if known	If parallel wires are selected then only AWG 1/0 or larger is allowed except per 310.4 exceptions.
6	50 *	Enter the length of wire (0-5000') if known	Note: If only one of cells 5,6 and 7 is left blank, then a calculated value will appear to the left of the cell.
7	477 *	Enter Amps (0-6000) if known	
8	2	Select the number of parallel wires (1 is non-parallel) or 2-25 pairs	

The following voltage drop calculations were all based on the resistance values in Table 8 of Chapter 9 of the 2011 NEC. This spreadsheet only considers voltage drop. Many other factors affect wire size. Refer to the entire NEC when sizing wire.

Results Window

9	6.24	Maximum voltage drop allowed	17 — 0.79 volts (ok) — Actual voltage drop
10	201.76	Minimum voltage allowed at load	18 — 207.21 volts (ok) — Actual voltage with load
11	1.732050808	Multiplier	19 — 5.45 volts (ok) — Voltage difference
12	0.0382	Resistance/1000' of wire	20 — 0.0000191 ohms — Total resistance per foot
13	350 kcmil	Wire Size	21 — AWG 3 recommended — Minimum wire size for voltage drop
14	50.00	Distance	22 — 395 feet — Maximum distance with this load
15	477	Maximum Amps	23 — 620 amps@75°F — Max ampacity of the wire in Cell 13 per Table 310.16 of the 2011 NEC
16	2	Minimum number of parallel wires	24 — 143.00 amps (ok) — Ampacity above or below load

VOLTAGE DROP CALCULATION - UTILITY TRANSFORMER TO 1DOL1

Voltage Drop Calculations

Data Entry Window

1	208	Select voltage	Printable View: Yes
2	3%	Select the max desired voltage drop (0%-5%)	
3	Three Phase	Select phase type	
4	Stranded Copper Coated	Select the type of wire	
5	AWG 3/0 *	Select the size of wire if known	If parallel wires are selected then only AWG 1/0 or larger is allowed except per 310.4 exceptions.
6	15 *	Enter the length of wire (0-5000') if known	Note: If only one of cells 5,6 and 7 is left blank, then a calculated value will appear to the left of the cell.
7	229 *	Enter Amps (0-6000) if known	
8	2	Select the number of parallel wires (1 is non-parallel) or 2-25 pairs	

The following voltage drop calculations were all based on the resistance values in Table 8 of Chapter 9 of the 2011 NEC. This spreadsheet only considers voltage drop. Many other factors affect wire size. Refer to the entire NEC when sizing wire.

Results Window

9	6.24	Maximum voltage drop allowed	17 — 0.24 volts (ok) — Actual voltage drop
10	201.76	Minimum voltage allowed at load	18 — 207.76 volts (ok) — Actual voltage with load
11	1.732050808	Multiplier	19 — 6.00 volts (ok) — Voltage difference
12	0.0797	Resistance/1000' of wire	20 — 0.0000399 ohms — Total resistance per foot
13	AWG 3/0	Wire Size	21 — AWG 12 recommended — Minimum wire size for voltage drop
14	15.00	Distance	22 — 395 feet — Maximum distance with this load
15	229	Maximum Amps	23 — 400 amps@75°F — Max ampacity of the wire in Cell 13 per Table 310.16 of the 2011 NEC
16	2	Minimum number of parallel wires	24 — 171.00 amps (ok) — Ampacity above or below load

VOLTAGE DROP CALCULATION - 1DOL1 TO 1HOL1

Voltage Drop Schedule: Cct... 1LOL1-15,17

Project Name Merced Airport **DC, 1 Ph or 3ph:** 1
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire...

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	216	12	4.63	963	N	4000	4.00
BC	150	12	1.54	321	N	4000	0.92
TOTALS	366						4.92
						%Voltage Drop	2.37%

Voltage Drop Schedule: Cct... 1LOL1-10,12

Project Name Merced Airport **DC, 1 Ph or 3ph:** 1
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire...

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	110	12	2.80	495	N	4000	1.23
BC	106	12	1.59	330	N	4000	0.67
CD	130	12	0.72	150	N	4000	0.37
TOTALS	346						2.28
						%Voltage Drop	1.10%

Voltage Drop Schedule: Cct... 1LOL1-14,16

Project Name Merced Airport **DC, 1 Ph or 3ph:** 1
Project Number 4665943-220849.05 **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire...

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	200	10	3.94	820	N	2400	1.89
AE	120	10	3.15	655	N	2400	0.91
BC	90	10	2.80	495	N	2400	0.60
CD	90	10	1.60	330	N	2400	0.35
TOTALS	500						3.75
						%Voltage Drop	1.80%

Voltage Drop Schedule: Cct Number 1DOL1-3

Project Name Merced Airport **DC, 1 Ph or 3ph:** 3
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire sizes

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	30	3	42.00	963	N	433	0.55
TOTALS	30						0.55
						%Voltage Drop	0.26%

Voltage Drop Schedule: Cct Number 1DOL1-2

Project Name Merced Airport **DC, 1 Ph or 3ph:** 3
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire sizes

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	24	3	36.00	963	N	433	0.37
TOTALS	24						0.37
						%Voltage Drop	0.18%

Voltage Drop Schedule: Cct Number 1DOL1-1

Project Name Merced Airport **DC, 1 Ph or 3ph:** 3
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire sizes

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	21	3	39.00	963	N	433	0.35
TOTALS	21						0.35
						%Voltage Drop	0.17%

Voltage Drop Schedule: Cct Number 1DOL1-4

Project Name Merced Airport **DC, 1 Ph or 3ph:** 3
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire sizes

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	160	3	56.00	963	N	433	3.88
TOTALS	160						3.88
						%Voltage Drop	1.87%

Voltage Drop Schedule: Cct Number 1DOL1-8

Project Name Merced Airport **DC, 1 Ph or 3ph:** 3
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire sizes

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	35	3	28.00	963	N	433	0.42
TOTALS	35						0.42
						%Voltage Drop	0.20%

Voltage Drop Schedule: Cct Number 1DOL1-9

Project Name Merced Airport **DC, 1 Ph or 3ph:** 3
Project Number 4665943-22084... **Avail. Voltage:** 208
**Use Text O not numeric 0 for OO, OOO, and OOOO wire sizes

Segment	Length (ft)	Wire size	Total Amps	Load (VA)	Conduit type n=non-mag, m=mag	Max. Bussmann No.	Total Voltage Drop
AB	18	3	19.00	963	N	433	0.15
TOTALS	18						0.15
						%Voltage Drop	0.07%

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MERCED TERMINAL AREA PLAN

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.01
DATE:	03.30.2023
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SHEET CONTENTS
TITLE 24 DOCUMENTATION - ELECTRICAL

SHEET NO.:
E-006

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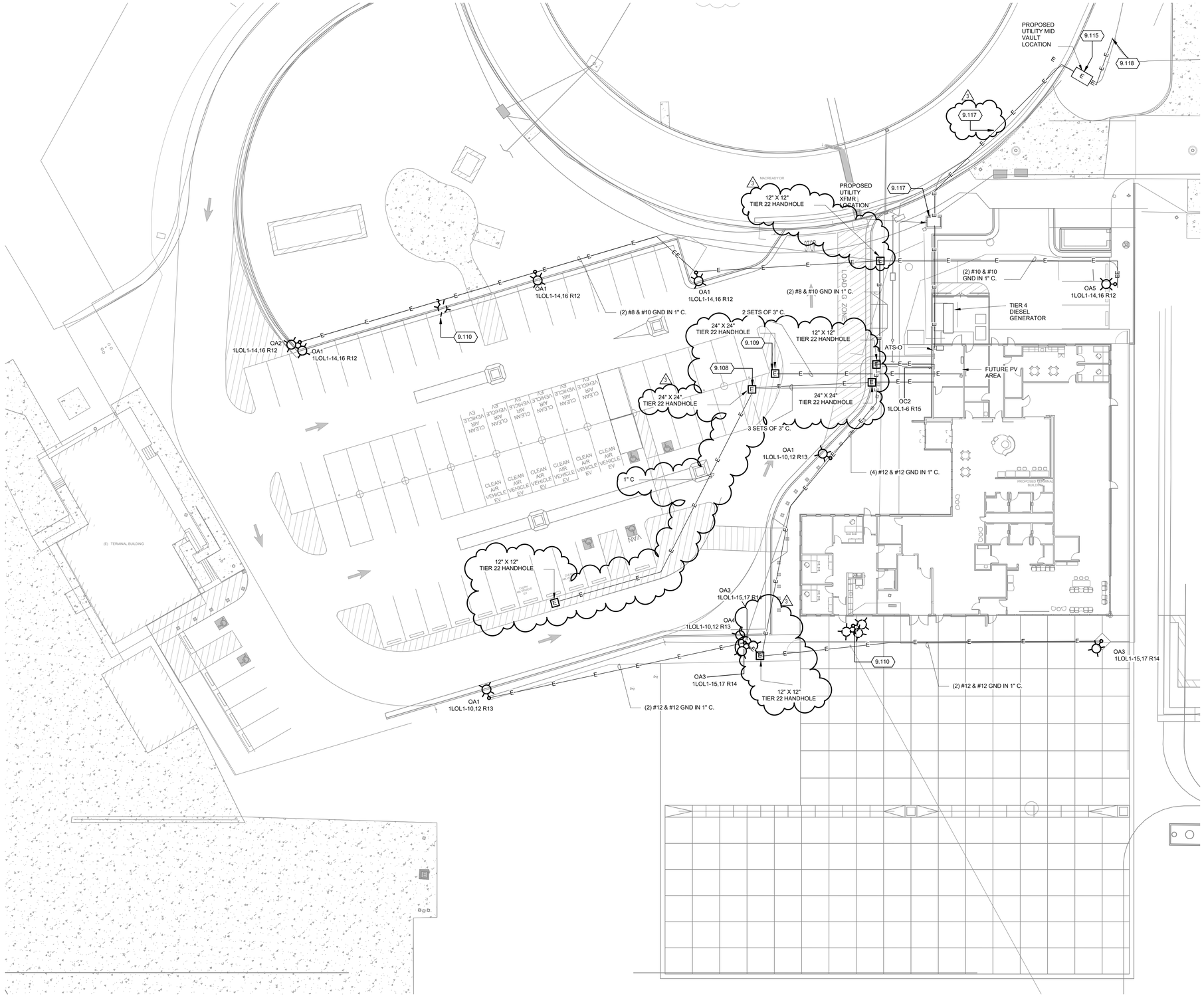

TRUE NORTH PLAN NORTH

1 **ELECTRICAL SITE PLAN**

1" = 20'-0"

GENERAL SITE NOTES:

1. ALL SITE CONDUIT SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE.
2. ALL SITE LIGHTING SHALL BE CONTROLLED THROUGH CONTROLLER LCP-A LOCATED IN ELECTRICAL ROOM 102. SEE LIGHTING CONTROL SCHEDULE ON SHEET E-602 FOR MORE INFORMATION
3. EC TO COORDINATE WITH TECHNOLOGY CONTRACTOR TO PROVIDE NECESSARY POWER AT EACH OF THE (3) VEHICLE GATES TO FEED (2) TECHNOLOGY ENCLOSURES. POWER CURRENTLY EXISTS AT THESE GATE LOCATIONS AND WILL NEED TO BE RE-WIRED TO FEED THE ACCESS CONTROL AND CELLULAR UPLINK EQUIPMENT.

KEYED NOTES

9.108 PROVIDE (3) 3" CONDUITS FROM PANEL FUTURE EV LOCATION TO NEW 24"X24"X12" TIER 22 HANDHOLE FOR FUTURE EV CHARGERS.

9.109 PROVIDE (2) 3" CONDUITS FROM ELEC 102 IN DESIGNATED FUTURE PV AREA TO NEW 12"X12"X12" TIER 22 HANDHOLE FOR FUTURE SHADE CANOPY PV ELEMENTS.

9.110 DISCONNECT AND REMOVE EXISTING LIGHT POLE, CONCRETE BASE, AND ASSOCIATED WIRING BACK TO SOURCE (PANEL LOCATED BETWEEN EXISTING T-HANGAR.)

9.115 EC TO PROVIDE 4'-6" X 8'-6" X 6'-0" MEDIUM VOLTAGE UTILITY VAULT PER MID SPECIFICATIONS. EC TO PROVIDE VAULT, LID, AND CONDUIT. JUNCTIONS, PRIMARY, AND SECONDARY WIRING BY MID. CONFIRM FINAL INSTALLATION LOCATION BASED ON MID CONSTRUCTION PLAN.

9.117 EC TO COORDINATE FINAL CONDUIT ROUTING WITH MID CONSTRUCTION PLAN. PRIMARY AND SECONDARY WIRING PROVIDED BY MID. SEE DETAIL 2 ON SHEET E-503 FOR EC PROVIDED CONCRETE TRANSFORMER PAD.

9.118 EC TO COORDINATE WITH MID FOR TIE INTO EXISTING MID UTILITY PRIMARY STUB.

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SHEET CONTENTS
ELECTRICAL SITE PLAN

SHEET NO.:
E-011

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3

TRUE NORTH PLAN NORTH

1

SITE PHOTOMETRIC PLAN

1" = 20'-0"

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ELECTRICAL SITE PHOTOMETRIC PLAN

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E-011PH

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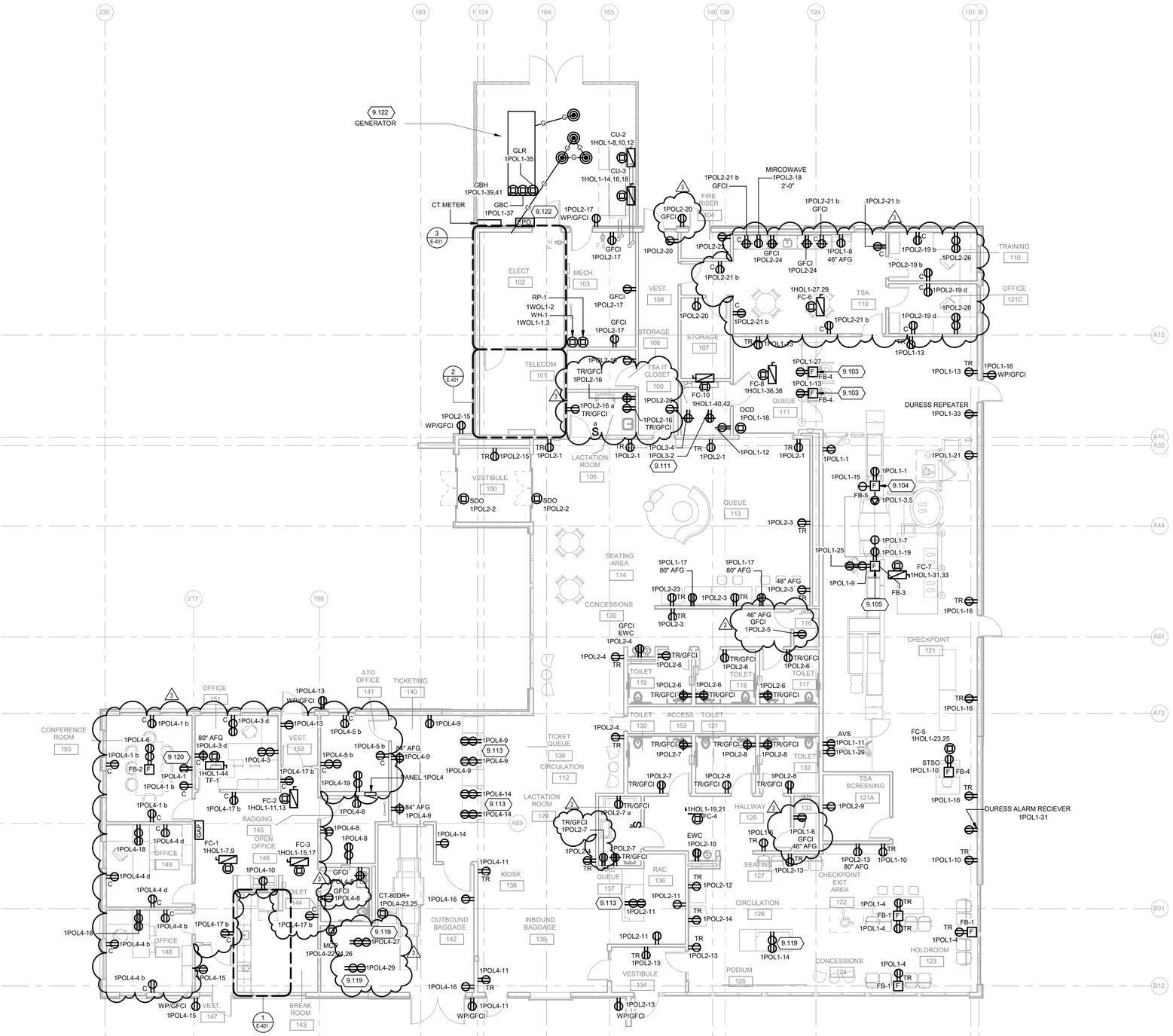

1 FIRST FLOOR POWER PLAN

1/8" = 1'-0"

KEYED NOTES

9.103	PROVIDE ALL REQUIRED POWER RECEPTACLES, DATA OUTLETS AND ACCESSORIES TO ACCOMMODATE THE DEVICES SHOWN IN DETAIL 3 ON SHEET E-501.
9.104	PROVIDE ALL REQUIRED POWER RECEPTACLES, DATA OUTLETS AND ACCESSORIES TO ACCOMMODATE THE DEVICES SHOWN IN DETAIL 4 ON SHEET E-501. PROVIDE SPARE 1" CONDUIT STUBBED TO CEILING FOR FUTURE EQUIPMENT CONNECTION.
9.105	PROVIDE ALL REQUIRED POWER RECEPTACLES, DATA OUTLETS AND ACCESSORIES TO ACCOMMODATE THE DEVICES SHOWN ON DETAIL 5 ON SHEET E-501.
9.111	REFER TO DETAIL 1/E-502 FOR RECEPTACLES AND CIRCUITING OF TELECOM RACKS.
9.113	COORDINATE INSTALLATION OF RECEPTACLES FOR TICKETING COUNTER WITH MILLWORK INSTALLER
9.119	MOUNT DOUBLE DUPLEX RECEPTACLE WITHIN CASEWORK. FEED TO RECEPTACLES SHALL BE ROUTED UNDER THE FLOOR SLAB. ALL CONDUIT AND WIRING WITHIN CASEWORK SHALL BE LOCATED SO THAT DOORS AND DRAWERS OF CASEWORK HAVE FULL FUNCTIONALITY AND ALL EQUIPMENT FITS WITHIN DESIGNATED AREA OF CASEWORK. SEE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION. FIELD COORDINATE EXACT INSTALLATION REQUIREMENTS.
9.120	PROVIDE 14' X 9" MEDIA BACKBOX WITH COVER AND PORTS FOR A DUPLEX AND (2) DATA RECEPTACLES AT 60" AFF.
9.122	EC TO PROVIDE SIGNAGE IN COMPLIANCE WITH CEC ARTICLE 700 FOR THIS PIECE OF EQUIPMENT.

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SHEET CONTENTS

FIRST FLOOR POWER PLAN

SHEET NO.:

E-101

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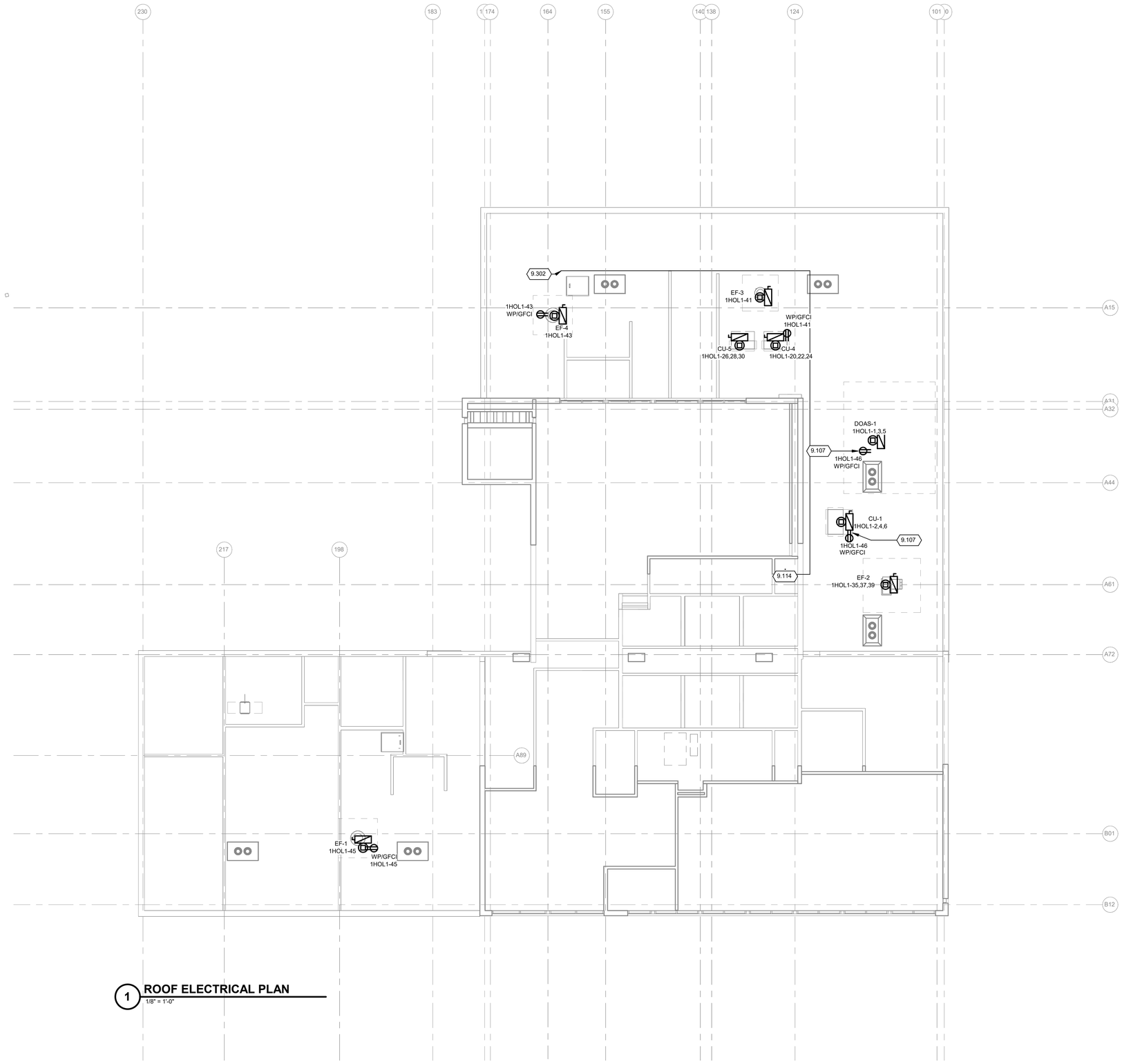

1 ROOF ELECTRICAL PLAN

1/8" = 1'-0"

KEYED NOTES

9.107 SURFACE MOUNT RECEPTACLE TO EXTERIOR SIDE OF UNIT DISCONNECT SWITCH

9.114 PROVIDE (2) 1" CONDUITS PENETRATING THROUGH THE ROOF FROM ELECTRICAL ROOM TO THESE LOCATIONS FOR FUTURE PV ROUGH-INS. CAP AND SEAL ENDS TO PREVENT WATER AND MOISTURE. CONDUITS SHOWN ON THIS SHEET ARE TO BE ROUTED ABOVE CEILING WHERE CEILINGS EXIST.

3 9.302 (2) 1" CONDUIT FROM DESIGNATED FUTURE PV AREA (SHOWN AS HATCH REGION) TO FUTURE PV PENETRATION.

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SHEET CONTENTS
ROOF POWER PLAN

SHEET NO.:
E-102

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3

1 **FIRST FLOOR EGRESS PHOTOMETRIC PLAN**
1/8" = 1'-0"

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SHEET CONTENTS
FIRST FLOOR
EGRESS
PHOTOMETRIC PLAN

SHEET NO.:

E-121PH

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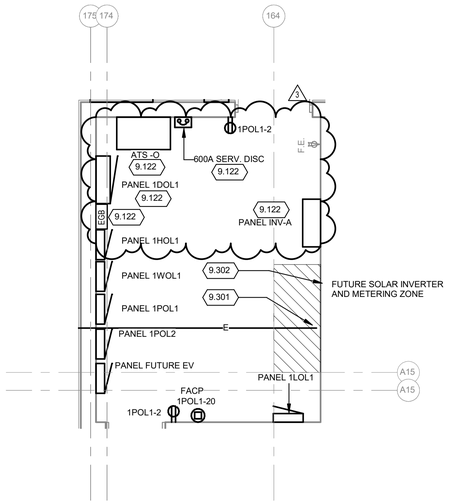
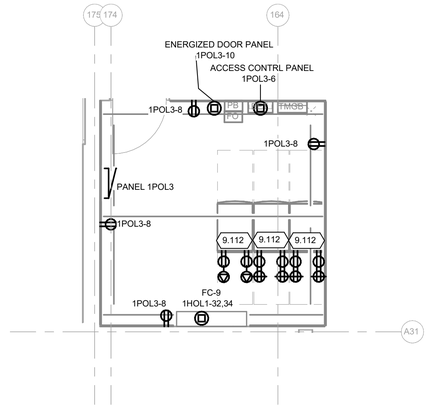


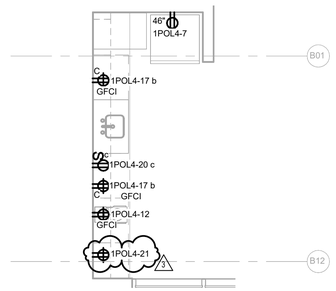
3 ENLARGED POWER PLAN - ELECT 102

1/4" = 1'-0"



2 ENLARGED POWER PLAN - TELECOM 101

1/4" = 1'-0"



1 ENLARGED BREAK ROOM 143

1/4" = 1'-0"

KEYED NOTES

9.112 REFER TO DETAIL 2/E-502 FOR RECEPTACLES AND CIRCUITING OF TELECOM RACKS.

9.122 EC TO PROVIDE SIGNAGE IN COMPLIANCE WITH CEC ARTICLE 700 FOR THIS PIECE OF EQUIPMENT.

9.301 PROVIDE (2) 3" CONDUITS IN DESIGNATED FUTURE PV AREA (SHOWN AS HATCH REGION) TO FUTURE SHADE CANOPY PV ELEMENT HANDHOLE.

9.302 (2) 1" CONDUIT FROM DESIGNATED FUTURE PV AREA (SHOWN AS HATCH REGION) TO FUTURE PV PENETRATION.

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SHEET CONTENTS

ENLARGED PLANS, ELEVATIONS & SECTIONS

SHEET NO.:

E-401

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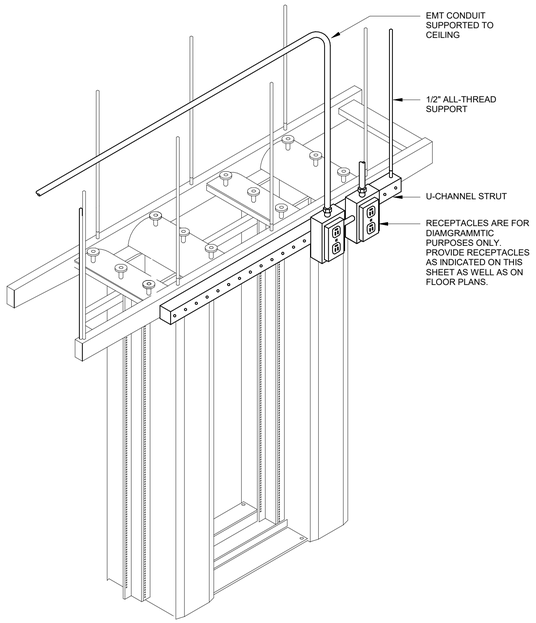
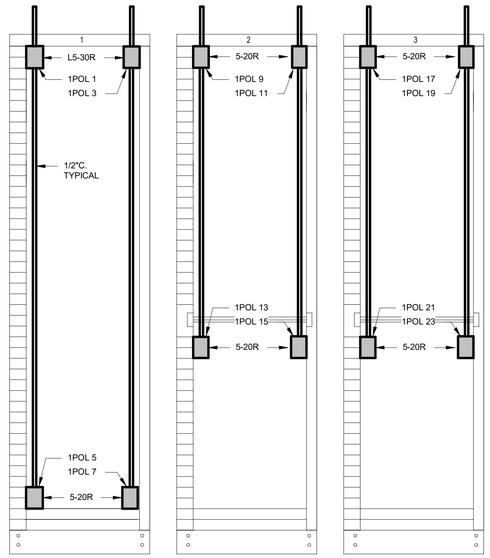


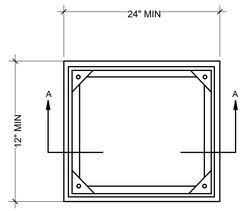
1 TSA RACK RECEPTACLE DETAIL

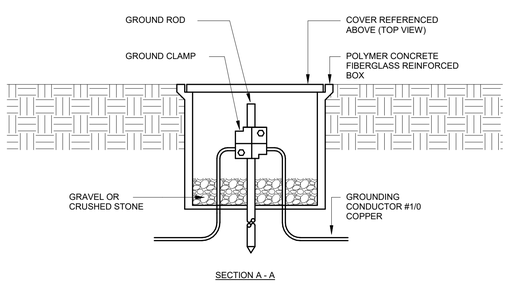


DETAIL NOTES:

1. RECEPTACLES SHALL BE INSTALLED IN BACK OF RACK. REFER TO CIRCUITING INFORMATION.
2. ROUTE CONDUIT INTERIOR TO RACK.
3. COORDINATE LOCATION OF KNOCKOUT WITH RACK MANUFACTURER.

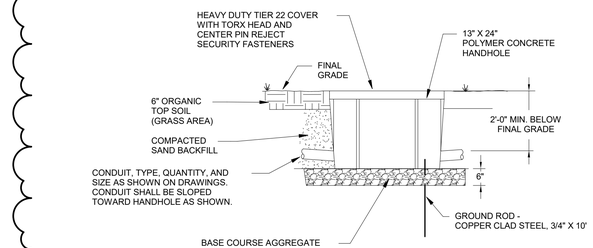
2 ENLARGED PLAN TELECOM ROOM 101 - CABINET ELEVATION





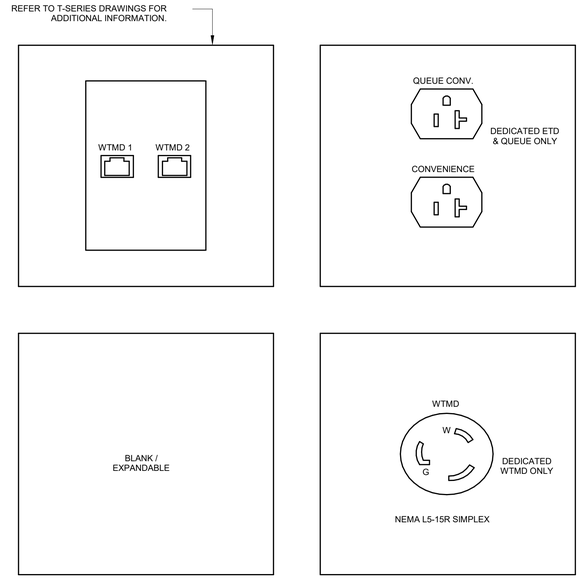
6 GROUND ACCESS WELL - DETAIL

1/2" = 1'-0"

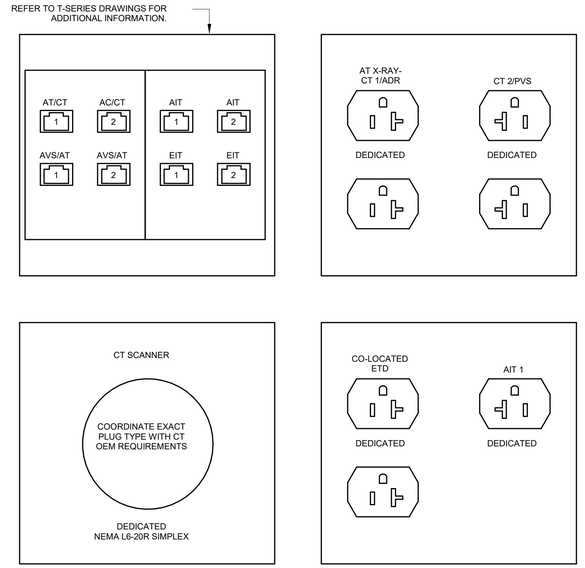


3 HANDHOLE DETAIL

12" = 1'-0"



4 FRONT XRAY OUTLET FLOORBOX DEVICE REQUIREMENTS



5 REAR XRAY OUTLET FLOORBOX DEVICE REQUIREMENTS

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DETAILS

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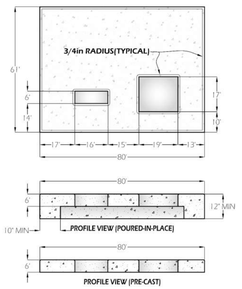
PAD DIMENSIONS

61" x 80"



- PAD SHALL BE INSTALLED LEVEL.
- FINISH ALL EXPOSED EDGES WITH A FINISHING TOOL
- HORIZONTAL(TOP) EDGES SHALL HAVE A 3/4" RADIUS
- LIGHT BROOM FINISH TOP OF SLAB

MID MERCED IRRIGATION DISTRICT | DESIGN: JMJ | APPROVED: 10/27/10

CONSTRUCTION STANDARD: CONCRETE TRANSFORMER PAD | STANDARD#: 35780 | SHEET: 3 OF 5

2 **MID TRANSFORMER PAD DETAIL**
NO SCALE

FIGURE 2
TYPICAL CONDUIT INSTALLATION

PROFILE VIEW

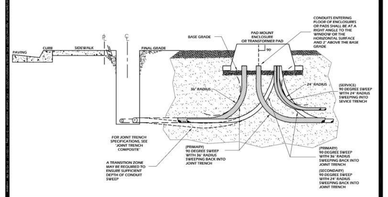
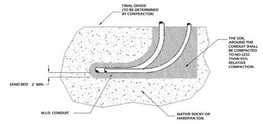


FIGURE 3
TYPICAL CONDUIT INSTALLATION SHOWING SANDBED IN ROCKY OR HARDPAN SOIL

PROFILE VIEW



MID MERCED IRRIGATION DISTRICT | DESIGN: staff | APPROVED: pend.

CONSTRUCTION STANDARD: PVC CONDUIT INSTALLATION | STANDARD#: 32110 | SHEET: 2 OF 2

1 **MID VAULT DETAIL**
NO SCALE

4'6" x 8'6" x 6'D VAULT ASSEMBLY
(SHOWN WITH INCIDENTAL-TRAFFIC COVER)

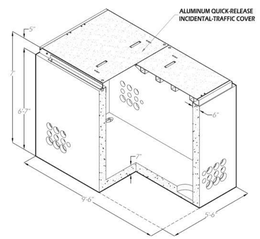


FIGURE 6
ISOMETRIC VIEW

4' x 8' VAULT BODY WEIGHT = 17,520lbs.

MID MERCED IRRIGATION DISTRICT | DESIGN: JMJ | APPROVED: 8/1/19

CONSTRUCTION STANDARD: PRIMARY VAULTS | STANDARD#: 32510 | SHEET: 7 OF 14

4'6" x 8'6" x 6'D VAULT

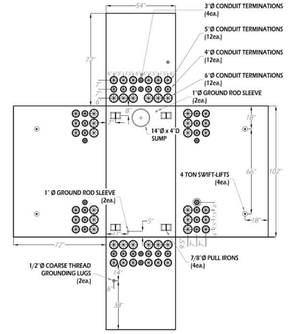


FIGURE 7
PLAN VIEW

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CONSTRUCTION STANDARD: PRIMARY VAULTS | STANDARD#: 32510 | SHEET: 8 OF 14

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LUMINAIRE SCHEDULE

DES	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED DATA	VOLTAGE	MOUNTING	DRIVER TYPE	LUMENS	WATTAGE	ACCEPTACLE MANUFACTURERS	KEYED NOTES
C1	GENLED	CHAS2-F-SV RB-90-SWS265-6-40-1 FI XX DRVWXXXXELVMLV	SURFACE MOUNTED LED TAPE LIGHT (CONTINUOUS RUN)	LED, 4000K	120 V	S	A	673.2 LM/FT	6 VA/FT	OR APPROVED EQUAL	1
D1	LITHONIA	EPANL 2X2 3400LMHE 80CRI 35K MIN10 ZT MVOLT	2x2 RECESSED LED FLAT PANEL	LED, 3500K	120 V	R	A	3400	27 VA	COLUMBIA CFP, MAXLITE	
D2	LITHONIA	EPANL 2X4 3000LMHE 80CRI 35K MIN10 ZT MVOLT	2X4 RECESSED FLAT PANEL	LED, 3500K	120 V	R	A	4000	23 VA	COLUMBIA CFP, MAXLITE	
D3	FOCAL POINT	FSM1 BW 500LF 35 1C UNV LD1 G2 WH XFT X IN	RECESSED 1" LINEAR LED	LED, 3500K	120 V	R	A	575LM/FT	6 VA/FT	ALW LIGHT PLANE 1	1
D4	FINELITE	HP-WS-4W-2D-XX-S-835-SW-120-SC-FC10%-WB-FE-L-TXL-R-SW	BATHROOM BACKLIGHT LINEAR	LED, 3500K	120 V	R	A	560 LM/FT	28 VA	FOCAL POINT SEEM 4 PERIMETER	1
EBU	ISOLITE	BUG-6W-WH-MB-SD	EMERGENCY BATTERY UNIT	W/ UNIT	120 V	S	A	1300	6 VA		
F1	LITHONIA	LDN4 35K/15 L04 AR LSS MVOLT GZ10	RECESSED 6" DOWNLIGHT CAN	LED, 3500K	120 V	R	A	1761	19 VA	LITESTRY, PORTOLIO, ALPHABET	
LM	ELECTRIC MIRROR	BEL2-RC1-48.00X42.00-L7CS-30K	LIGHTED MIRROR	LED, 3000K	120 V	W	A	4900	49 VA	OR APPROVED EQUAL	
OA1	COOPER	BAA-GALN SA3C 740 U T4FT SP GM SPB2/3 - (POLE) -RTS6A20SGN3HV	20' LED LIGHT POLE HEAD (T4FT SPREAD)	LED, 4000K	208 V	PL	A	20950	160 VA	LITHONIA RSX	5
OA2	COOPER	BAA-GALN SA2C 740 U T2 SP GM SPB2/2 - (POLE) -RTS6A20SGN3HV	20' LED LIGHT POLE HEAD (T2 SPREAD)	LED, 4000K	208 V	PL	A	19482	165 VA	LITHONIA RSX	5
OA3	COOPER	BAA-GALN SA6C 740 U T4FT SP GM - (POLE) -RTS8A30SGN3HV	30' LED LIGHT POLE HEAD (FLOOD LIGHT SPREAD)	LED, 4000K	208 V	PL	A	41600	321 VA	LITHONIA RSX	5
OA4	COOPER	BAA-GALN SA3C 740 U T4FT SP GM SPB4/3 - (POLE) -RTS8A30SGN3HV	30' LED LIGHT POLE HEAD (T4FT SPREAD)	LED, 4000K	208 V	PL	A	20950	160 VA	LITHONIA RSX	5
OA5	COOPER	BAA-GALN SA3A 740 U SL4 HSS SP GM SPB2/2 - (POLE) -RSS5M20SGN5BH	20' LED LIGHT POLE HEAD (FORWARD THROW W/ SPILL CONTROL)	LED, 4000K	208 V	PL	A	13363	93 VA	LITHONIA RSX	5
OC1	COOPER	BAA-IST-PA1C-740-U-SL2-GM-MS/DIM-LXX	DOOR LED WALLPACK	LED, 4000K	120 V	W	A	4874	34 VA	LITHONIA WSX	
OC2	COLE LIGHTING	SIGNLIGHTER LED 6.0W SL-18	LED SIGN LIGHT	LED, 3500K	120 V	W	A	9000	108 VA	LSI SIGN WASHER	
P1	LUMENWERX	RIMVACORP 48 ULO - SW 90 - M4500 - 35 - UNV - D1 - 1 - RDB - B - BAC - SC - AL XXX	4' DECORATIVE PENDANT	LED, 3500K	120 V	P	A	4000	51 VA	OR APPROVED EQUAL	2
P1B	LUMENWERX	RIMBACORP 48 RCD AL 1C XXIN AL XXX	4' DECORATIVE PENDANT - BLANK - NO ELEC	LED, 3500K	120 V	P	-		N/A	OR APPROVED EQUAL	2
P2	LUMENWERX	RIMVACORP 36 ULO - SW 90 - M4500 - 35 - UNV - D1 - 1 - RDB - B - BAC - SC - AL XXX	3' DECORATIVE PENDANT	LED, 3500K	120 V	P	A	4500	60 VA	OR APPROVED EQUAL	2
P2B	LUMENWERX	RIMBACORP 36 RCD AL 1C XXIN AL XXX	3' DECORATIVE PENDANT - BLANK - NO ELEC	LED, 3500K	120 V	P	-		N/A	OR APPROVED EQUAL	2
P3	LUMENWERX	RIMVACORP 24 ULO - SW 90 - M4500 - 35 - UNV - D1 - 1 - RDB - B - BAC - SC - AL XXX	2' DECORATIVE PENDANT	LED, 3500K	120 V	P	A	4000	51 VA	OR APPROVED EQUAL	2
P3B	LUMENWERX	RIMBACORP 24 RCD AL 1C XXIN AL XXX	2' DECORATIVE PENDANT - BLANK - NO ELEC	LED, 3500K	120 V	P	-		N/A	OR APPROVED EQUAL	2
S1	LITHONIA	ZL1N L48 3000LM FST MVOLT 35K 80CRI WH HC36 M12	SUSPENDED UTILITY LINEAR LED	LED, 3500K	120 V	P	A	4515	25 VA	COOPER SNLED	2
S2	LUMENWERX	MIKPD HLO LED 80 500 35 XFTXIN UNV MIKDR 1 53WAC36 AL XX	1" SUSPENDED LINEAR LED (ARMSTRONG CEILING MOUNTED)	LED, 3500K	120 V	P	A	500LM/FT	5.5 VA/FT	FOCAL POINT SEEM 1	1
S3	LUMENWERX	CLUP05 3" TMB CON MF04 TMB SW SOF SPT 90 35 REMOTE 120 923 D1 CD TMB BKS XIN	DECORATIVE 5" SQUARE LED PENDANT	LED, 3500K	120 V	P	A	950	11.8 VA	OR APPROVED EQUAL	2
S4	LUMENWERX	SQUACOP D MRO55 B WIO2 SW 80 500 35 6FT 16 UNV D1 1 53WAC36B XXX XX	ACCOUSTIC LINEAR PENDANT FIXTURE	LED, 3500K	120 V	P	A	3000	49 VA	LUXX BOX	2
X1	LITHONIA	EDGR 1 R BAA	CEILING MOUNTED EDGE LIT EXIT SIGN	W/ UNIT	120 V	S	-	NA	5 VA	SURE-LITE, DUAL LITE, ISOLITE, EVENLITE	
X2	LITHONIA	EDG 1 R WM BAA	SURFACE MOUNTED EXIT LIGHT	W/ UNIT	120 V	S	-	NA	5 VA	SURE-LITE, DUAL LITE, ISOLITE, EVENLITE	
X3	LITHONIA	LE S 1 R END MOUNTING BAA	SIDE MOUNTED EXIT LIGHT	W/ UNIT	120 V	S	-	NA	5 VA	SURE-LITE, DUAL LITE, ISOLITE, EVENLITE	
X4	LITHONIA	EDG 1 R ELA B US12 BAA	STEM MOUNTED EXIT SIGN	W/ UNIT	120 V	P	-	NA	5 VA	SURE-LITE, DUAL LITE, ISOLITE, EVENLITE	3

MOUNTING (MTG):

CV = COVE
ES = EXPOSED STRUCTURE
O = OTHER
P = PENDANT
PL = POLE
R = RECESSED
S = SURFACE
SP = SUSPENDED
UC = UNDERCOUNTER
V = VARIES
W = WALL MOUNTED

BALLAST/DRIVER: (SEE SPECIFICATIONS)

A LED DIMMABLE DRIVER (0-10V) - 10% DIM

LUMINAIRE SCHEDULE GENERAL NOTES:

1. REFER TO DIVISION 26 SPECIFICATION FOR ADDITIONAL INFORMATION BEFORE ORDERING.
2. ALL LED LUMINAIRES MUST COMPLY WITH LM-79 AND LM-80 TESTING STANDARDS. L70 LIFE SHALL HAVE A MINIMUM OF 50,000 HOURS.
3. ANY PROPOSED SUBSTITUTIONS MUST BE SUBMITTED WITH PHOTOMETRIC CALCULATIONS AND CATALOG SHEETS WITH DATA TO PROVE EQUAL CHARACTERISTICS. PROVIDE PHYSICAL SAMPLES OF PROPOSED SUBSTITUTIONS UPON REQUEST.
4. EC SHALL VERIFY AND COORDINATE ALL LUMINAIRE TRIMS/FLANGES WITH RESPECTIVE CEILING TYPES SCHEDULED AND/OR SUBMITTED BY THE GC PRIOR TO ORDERING OF THE LUMINAIRES. SCHEDULE INDICATES TRIM TYPES BASED ON THE GENERIC CEILING INFORMATION AVAILABLE AT THE TIME BIDDING DOCUMENTS WERE ISSUED AND DOES NOT REFLECT ACTUAL THICKNESS OF GYPSUM WALL BOARD OR PLASTER CEILING OR EXACT GRID TYPE SPECIFIED BY THE ARCHITECT.

LUMINAIRE SCHEDULE KEYED NOTES:

1. FIXTURE LENGTH TO MATCH WHAT IS DEPICTAED ON THE DRAWINGS
2. ADJUST SUSPENSION OF FIXTURES TO MATCH WHAT HEIGHT AND ORIENTATION ARE SHOWN ON DRAWINGS.
3. PROVIDE MOUNTING AND STEM ACCESSORIES ACCORDINGLY TO MOUNT FIXTURE BELOW WOOD CEILING.
4. SEE ARCHITECTURAL FINISHES PLAN FOR FINAL FINISH SELECTION FOR THESE FIXTURES.
5. FOR LIGHT POLE DETAILS SEE DETAIL 4 ON S-502. SEE STRUCTURAL CALCULATION PACKAGE PG 507 FOR CALCULATIONS

ELECTRICAL EQUIPMENT WIRING SCHEDULE

EQUIPMENT				LOAD		BRANCH WIRING		STARTER			DISCONNECT TYPE AND RATING				
NAME	DESCRIPTION	LOCATION	Load (HP/kW/A)	Voltage	PHASE	WIRES	CONDUIT	TYPE	NEMA SIZE	FURNISHED/ INSTALLED BY	TYPE	SIZE/FUSE	NEMA ENCLOSURE	FURNISHED/ INSTALLED BY	KEYED NOTE
ACCESS CONTRL PANEL	ACCESS CONTROL PNL	TELECOM 101	.5 kW	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
BACKLIT SIGN	BACKLIT SIGN	CANOPY	TBD	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
CT-80DR+	EXPLOSIVES DETECT SYS	BAGGAGE 142	1.8 kW	208 V	1	(2)#10, 10G	3/4"	-	-	-	-	-	-	-	2
CU-1	CONDENSING UNIT	ROOF	8.6 kW	208 V	3	(3)#8, 10G	3/4"	-	-	-	F	60AS/40AF	NEMA 3R	EC	1
CU-2	CONDENSING UNIT	YARD	15 kW	208 V	3	(3)#4, 10G	1"	-	-	-	F	60AS/60AF	NEMA 3R	EC	1
CU-3	CONDENSING UNIT	YARD	17.75 kW	208 V	3	(3)#3, 8G	1"	-	-	-	F	100AS/80AF	NEMA 3R	EC	1
CU-4	CONDENSING UNIT	ROOF	8.4 kW	208 V	3	(3)#10, 10G	3/4"	-	-	-	F	30AS/30AF	NEMA 3R	EC	1
CU-5	CONDENSING UNIT	ROOF	8.4 kW	208 V	3	(3)#10, 10G	3/4"	-	-	-	F	30AS/30AF	NEMA 3R	EC	1
DOAS-1	DED. OUTSIDE AIR UNIT	ROOF	30 kW	208 V	3	(3)#1, 6G	1-1/2"	-	INTEGRAL	-	-	-	-	MFR	
EF-1	EXHAUST FAN	ROOF	.25 HP	120 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	-	-	-	MFR	
EF-2	EXHAUST FAN	ROOF	1 HP	208 V	3	(3)#12, 12G	1/2"	-	INTEGRAL	-	-	-	-	MFR	
EF-3	EXHAUST FAN	ROOF	.25 HP	120 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	-	-	-	MFR	
EF-4	EXHAUST FAN	ROOF	.25 HP	120 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	-	-	-	MFR	
ENERGIZED DOOR PANEL	DOOR CONTROL PANEL	TELECOM 101	.5 kW	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
FACP	FIRE ALARM C. PANEL	ELECT 102	FRAC HP	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
FC-1	VRF FAN COIL	OPEN OFFICE 146	.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-2	VRF FAN COIL	OPEN OFFICE 146	.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-3	VRF FAN COIL	OPEN OFFICE 146	.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-4	VRF FAN COIL	HALLWAY 128	.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-5	VRF FAN COIL	CHECKPOINT 121	1.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-6	VRF FAN COIL	TSA 110	.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-7	VRF FAN COIL	CHECKPOINT 121	1.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-8	VRF FAN COIL	CHECKPOINT 121	1.6 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-9	VRF FAN COIL	TELECOM 101	.3 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
FC-10	VRF FAN COIL	STORAGE 107	.3 kW	208 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	F	30AS/15AF	NEMA 1	EC	
GBC	GEN. BATTERY CHARGER	YARD	5A	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
GBH	GEN. BLOCK HEATER	YARD	1.8 kW	208 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
GLR	GEN. LIGHT AND RECEPT	YARD	.5 kW	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
MCP	MOTOR CONTROL PANEL	BAGGAGE 142	13 kW	208 V	3	(3)#6, 10G	1"	-	-	-	-	-	-	-	
OCD	OVERHEAD COIL DOOR	QUEUE 111	.5 kW	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
RP-1	RECIRC PUMP	MECH 103	.5 kW	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
SDO	SLIDING DOOR OPERATOR	FRONT VESTIBULE	.5 kW	120 V	1	(2)#12, 12G	1/2"	-	-	-	-	-	-	-	
TF-1	TRANSFER FAN	OFFICE 151	.5 HP	120 V	1	(2)#12, 12G	1/2"	-	INTEGRAL	-	-	-	-	MFR	
WH-1	WATER HEATER	MECH 103	21A	208 V	1	(2)#10, 10G	3/4"	-	-	-	-	30AS/30AF	NEMA 1	EC	

STARTER/DISCONNECT TYPE:

MX MANUAL MOTOR SWITCH
MS MANUAL MOTOR STARTER (W/ OVERLOAD RELAYS)
YD WYE-DELTA
FV FULL VOLTAGE
SS REDUCED VOLTAGE, SOLID STATE
RE REVERSING
2SP 2 SPEED, 2 WINDING
SW 2 SPEED, 1 WINDING
CS COMBINATION MAGNETIC CONTROLLER
FS FUSED SWITCH
VFD VARIABLE FREQUENCY DRIVE
RVS REDUCED VOLTAGE (MAGNETIC)
ECB ENCLOSED CIRCUIT BREAKER

KEY:

MFR MANUFACTURER
F FUSED
NF NON-FUSED
EC ELECTRICAL CONTRACTOR
MC MECHANICAL CONTRACTOR
PC PLUMBING CONTRACTOR

LIGHTING CONTROL NARRATIVE:

TOTAL BUILDING LIGHTING CONTROL SHALL BE A DISTRIBUTED TYPE CONTROL SYSTEM BY DOUGLAS, LUTRON, WATTSTOPPER, OR APPROVED EQUAL OR A COMBINATION OF DISTRIBUTED AND CENTRALIZED LOW VOLTAGE CONTROL SYSTEMS THAT ARE PROVIDED BY THE SAME MANUFACTURER AND TIED INTO A SINGLE HEAD END FOR A SINGLE SOURCE OF CONTROL.

ROOM CONTROLLERS OR DISTRIBUTED CONTROL DEVICES SHALL BE LOCATED ABOVE THE CEILING AT THE LOCATION OF ROOM WALL SWITCHES. ALL CONTROLLERS MUST BE LABELED WITH CIRCUIT AND ZONING INFORMATION.

IN CORRIDORS WITH NO WALL SWITCHES, ROOM CONTROLLERS SHALL BE LOCATED AT THE CORRIDOR INTERSECTION NEAR THE WALL AND LABELED WITH CIRCUIT AND ZONING INFORMATION

IF LIGHTING FIXTURES ARE LOCATED OUTSIDE OR IN AN INACCESSIBLE LOCATION, GROUP CONTROL DEVICES IN ELECTRICAL ROOM WHERE PANEL SERVING FIXTURES ARE LOCATED.

EMERGENCY EGRESS LIGHTING SHALL BE SWITCHED WITH NON-EMERGENCY EGRESS LIGHTING ON SAME SWITCH LEG OR ZONE VIA USE OF UL924 DEVICE. PROVIDE A MINIMUM OF (1) UL924 DEVICE PER 20A SWITCH-LEG. PROVIDE LVS INC OR EQUAL DEVICE WITH SELF TEST OR VISIBLE SWITCH. DEVICE MODEL SHALL BE COMPATIBLE WITH FIXTURE AND CONTROL TYPE. VERIFY MODEL REQUIRED WITH PLANS

ALL EMERGENCY EGRESS LIGHTING CIRCUITS SHALL BE CAPABLE OF SWITCHING AND ONLY BE OVERRIDDEN TO ON DURING EMERGENCY EVENTS. NO CIRCUITS OR ZONES SHALL BE UNCONTROLLED "ON" UNLESS SPECIFICALLY NOTED ON PLANS

SOFTWARE MUST BE PROVIDED WITH LIGHTING CONTROL SYSTEM FOR MAINTENANCE AND SCHEDULING PURPOSES. OWNER TRAINING UPON COMPLETION OF LIGHTING CONTROL COMMISIONING SHALL BE PROVIDED.

DETAILED DRAWINGS OF ALL INSTALLED COMPONENTS FOR THE CONTROL SYSTEM SHALL BE COMPLETED AFTER FINAL INSTALLATION AND COMMISIONING OF SYSTEM SHOWING FINAL INSTALLATION LOCATIONS AND INCLUDING ZONING AND CIRCUIT INFORMATION AS INSTALLED.

OVERRIDE DISTRIBUTED LIGHTING CONTROL SWITCHES TO BE MAXIMUM 2 HOUR OVERRIDE AND BLINK 5 MINUTES PRIOR TO SCHEDULED OF AND OVERRIDE OFF.

COORDINATE WITH OWNER BUSINESS OPERATION HOURS AND ON/OFF TIME SCHEDULE PROGRAMMING.

ALTERING/CHANGING SCHEDULES BY THE USER/OWNER DURING NORMAL OPERATIONAL HOURS SHALL NOT CAUSE THE SYSTEM TO RESET AND LIGHTS TO BLINK, TURN OFF, OR CYCLE. ALL LIGHTING MUST BE MAINTAINED UNLESS SPECIFICALLY CHANGED TO TURN OFF OR ON.

SWITCH LABELING INTENT:
(*) A STANDARD SWITCH SYMBOL WITH NO LABEL SHALL BE A LOCAL ON/OFF SWITCH. THIS IS NOT PART OF THE LIGHTING CONTROL SYSTEM.
(D) NEXT TO A STANDARD SWITCH SYSMBO. INDICATED LOCAL DIMMING SWITCH THAT IS COMPATIBLE WITH LIGHT FIXTURE DRIVER DIMMING REQUIREMENTS. THIS IS NOT PART OF THE LIGHTING CONTROL SYSTEM.
(R#) INDICATES CENTRALIZED LOW VOLTAGE RELAY CONTROL WHERE THE NUMBER IS THE CORRESPONDING RELAY

CONTROL INTENT BY ROOM / SPACE:
NON-PUBLIC CORRIDORS:
- PROVIDE STAND-ALONE PIR HALLWAY TYPE OCCUPANCY SENSORS.

BATHROOMS:
- PROVIDE STAND-ALONE WALL MOUNTED TYPE OCCUPANCY SENSORS.

GATHERING AREAS LIKE HOLDROOM, SECURITY CHECKPOINTS, TICKETING AND OTHER SIMILAR AREAS:
- PROVIDE DISTRIBUTED CONTROL DEVICES WITH CEILING OR CORNER MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR(S). OCCUPANCY SENSOR WILL ACTIVATE UPON ROOM ENTRY. LIGHTING WILL TURN ON AUTOMATICALLY. AFTER TIMEOUT OF OCCUPANCY SENSOR (SET TO 20 MINUTES), LIGHTING WILL TURN OFF

STORAGE ROOMS AND SMALL ROOMS SHOWING CEILING MOUNTED OCCUPANCY AT ROOM ENTRY:
- THESE ROOMS SHALL NOT BE PART OF THE LV CONTROL SYSTEM. PROVIDE MOUNTED VACANCY SENSOR AS INDICATED ON PLAN. SOME OF THESE DEVICES MAY ALSO BE REQUIRED TO INCLUDE DIMMING IF "D" IS SHOWN NEXT TO SWITCH

OFFICES, TSA, CONFERENCE ROOMS SHOWING ROOM CONTROLLERS
- THESE ROOMS SHALL BE CONTROLLED BY THE LOW VOLTAGE SWITCH SERVING THE ROOM IN TANDOM WITH CEILING MOUNTED OCCUPANCY SENSORS. SOME SPACES HAVE A ROOM CONTROLLER THAT SERVES TWO SPACES. SWITCHLEGS WILL BE IDENTIFIED WITH A LOWER CASE LETTER NEXT AFTER THE CIRCUIT NUMBER.

ENTRANCE, TICKETING, CHECKPOINT, HOLDROOM AND OTHER LARGE ATRIUM SPACES
- LIGHTING RELAYS ARE IDENTIFIED BASED ON THE DAYLIGHT ZONES IN EACH SPACE. LIGHTING THAT IS LOCATED WITHIN THE DAYLIT ZONE WILL BE DIMMED BASED ON LOCAL DAYLIGHT SENSORS. EACH RELAY WILL HAVE AN ASSOCIATED LOW VOLTAGE SWITCH, THAT DEPENDING ON THE LOCAL WILL BE DISABLED DURING WORK HOURS TO PREVENT TAMPERING. ALL LIGHTING ON THE RELAY WILL BE TIED TO A TIME SCHEDULE. ONCE THE SET SCHEDULE HAS ELAPSED, LIGHTS WILL TURNED OFF AND LOCAL OCCUPANCY SENSORS WILL TRIGGER THE LIGHTS TO OPERATE IF A PERSON IS PRESENT.

ELECTRICAL, TELECOM AND MECHANICAL SPACES:
- THESE ROOMS ARE NOT PART OF THE LIGHTING CONTROL SYSTEM
- PROVIDE LOCAL LINE VOLTAGE SWITCHING AT ROOM ENTRIES. NO AUTOMATIC OVERRIDE CONTROLS ARE REQUIRED

EXTERIOR SITE LIGHTING:
- PROVIDE LOW VOLTAGE LIGHTING OVERRIDE CONTROL, MAY BE CENTRALIZED OR DISTRIBUTED, WITH POLE AND BUILDING MOUNTED MOTION SENSORS FOR DIMMING TO 30% DURING UNOCCUPIED PERIODS.

EXTERIOR APRON LIGHTING:
- PROVIDE LOW VOLTAGE LIGHTING OVERRIDE CONTROL FOR TIME SCHEDULED OFF, MAY BE CENTRALIZED OR DISTRIBUTED

LUMINAIRE SCHEDULE KEYED NOTES:
ADJUST SUSPENSION OF FIXTURE TO MOUNT FIXTURE INBETWEEN WOOD SLOTS. REFER TO PLANS FOR EXACT LENGTHS.
REFER TO PLANS FOR EXACT LENGTHS. PROVIDE CONNECTORS, HARDWARE, POWER FEEDS AND EXTENSTIONS AS REQUIRED FOR A COMPLETE SYSTEM.

LIGHTING CONTROL - SENSOR PERFORMANCE REQUIREMENTS:

1. CONFIRM QUANTITY AND PROVIDE APPROPRIATE COVERAGE BY SENSORS ON A PER SPACE REQUIREMENT. SYMBOLS ON DRAWINGS ARE DIAGRAMMATIC AND REPRESENT DESIGN INTENT ONLY.
2. OCCUPANCY SENSORS SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE MANUFACTURER'S SUBMITTAL LAYOUT DRAWINGS. SENSORS SHALL BE LOCATED TO PREVENT FALSE TRIGGERING OF THE LIGHTS TO ON WHEN NO OCCUPANT IS PRESENT. SENSOR SHALL NOT BE LOCATED WITHIN 2' OF MECHANICAL DIFFUSERS IN ROOM TO PREVENT FALSE ON. THE SENSOR SHALL DETECT WHEN NO OCCUPANT IS PRESENT FOR 20 MINUTES OR AS INDICATE ON LIGHTING CONTROL NARRATIVE SHEET AND SWITCH OFF THE LIGHTS. LIGHTING SHALL DEFAULT TO STATE AT WHICH THE ROOM WAS LEFT UPON REENTRY OF THE OCCUPANT. MANUAL OVERRIDE VIA WALL SWITCH OR PUSH BUTTON SHALL BE PROVIDED AS INDICATED ON PLANS.
3. VACANCY SENSORS SHALL BE INSTALLED AT LOCATIONS INDICATION ON THE MANUFACTURER'S SUBMITTAL LAYOUT DRAWINGS. SENSORS SHALL BE SET TO MANUAL ON CONTROL UPON SENSOR ACTIVATION. SENSOR SHALL DETECT WHEN NO OCCUPANT IS PRESENT FOR 20 MINUTES OR AS INDICATED ON LIGHTING CONTROL NARRATIVE AND SWITCH OFF THE LIGHTS. LIGHTING SHALL DEFAULT TO STATE AT WHICH THE ROOM WAS LEFT UPON ACTIVATION OF THE SWITCH OR PUSH BUTTON.
4. DAYLIGHT HARVESTING/ROOM PHOTOCELLS SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE MANUFACTURER'S SUBMITTAL LAYOUT DRAWINGS. SENSORS SHALL BE CALIBRATED TO LIGHT LEVELS IN EACH SPACE WITHOUT DAYLIGHT CONTRIBUTION. MEASUREMENTS SHALL BE MADE AT THE FARTHEST POINT FROM WINDOW IN EACH DAYLIGHT ZONE. AT THE WORK PLANE AND ESTABLISH THE TARGET ILLUMINANCE VALUE. WHEN THE PHOTOCELL DETECTS THE TARGET ILLUMINANCE VALUE, IT SHALL DIM CORRESPONDING LIGHT FIXTURES TO MEET THAT VALUE. SENSOR CALIBRATION AND DEAD BAND SETTINGS SHALL BE PROGRAMMED AFTER FURNITURE AND FINISHES ARE INSTALLED.

EQUIPMENT SCHEDULE GENERAL NOTES:

1. ALL WORK BY THIS CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTIONS AND FOR COMPLETE INSTALLATION.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
4. PROVIDE ALL POWER WIRING INCLUDING ALL CIRCUITRY CARRYING ELECTRICAL ENERGY FROM PANELBOARD OR OTHER SOURCE THROUGH STARTERS AND DISCONNECTS TO MOTORS, PACKAGED EQUIPMENT OR PACKAGED CONTROL PANELS. PROVIDE ALL WIRING BETWEEN CONTROL PANELS AND MOTORS. INCLUDE STARTERS, DISCONNECTS AND OVERLOAD PROTECTION IF NOT INCLUDED HVAC SPECIFICATION. COORDINATE WITH HVAC SPECIFICATIONS.
5. THIS CONTRACTOR SHALL VERIFY WITH MECHANICAL CONTRACTOR, ELECTRICAL REQUIREMENTS INCLUDING VOLTAGES, HORSE POWER, DISCONNECTING MEANS, STARTERS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS.

EQUIPMENT SCHEDULE KEYED NOTES:

1. COORDINATE POWER AND RECEPTACLE REQUIREMENTS WITH OWNER PROVIDED EQUIPMENT PRIOR TO ROUGH-IN.
2. CONFIRM FINAL ELECTRICAL CONNECTION WITH MANUFACTURER. PROVIDE DISCONNECTING MEANS AS NEEDED.

Mead & Hunt
Mead & Hunt, Inc.
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REGISTERED PROFESSIONAL ENGINEER JOHN R. HUDOCK 20791 ELECTRICAL STATE OF CALIFORNIA

04/21/2023

MERCED

MERCED YOSEMITE REGIONAL AIRPORT
MERCED TERMINAL AREA PLAN

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.01
DATE:	03.30.2023
DESIGNED BY:	AH
DRAWN BY:	RK
CHECKED BY:	JH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
SCHEDULES

SHEET NO.:
E-601

4/21/2023 4:38:42 PM C:\Revit Local\220849 05-E-R22_alex.hartsour.rvt

LIGHTING RELAY SCHEDULE

RELAY NUMBER	VOLTAGE	POLES	PANEL	CIRCUIT NUMBER	LOAD LOCATION (ROOM NAME & NUMBER)	LOW VOLTAGE AUTOMATIC OVERRIDE	LOW VOLTAGE MANUAL OVERRIDE	KEYED NOTES
R1	120 V	1	1LOL1	7	LOBBY/VESTIBULE - DAYLIGHT ZONE	T1	OS	1,3
R2	120 V	1	1LOL1	18	LOBBY/VESTIBULE - SECONDARY DAYLIGHT ZONE	T1	OS	3
R3	120 V	1	1LOL1	11	FRONT LOBBY - NO DAYLIGHT ZONE	T2	OS	1,3
R4	120 V	1	1LOL1	19	TICKETING LOBBY/RAC - NO DAYLIGHT ZONE	T2	OS	1,3
R5	120 V	1	1LOL1	20	TICKETING LOBBY - SECONDARY DAYLIGHTING	P1	OS	1,3
R6	120 V	1	1LOL1	4	TICKETING COUNTER LIGHTING 140	T1	OS	1
R7	120 V	1	1LOL1	13	QUEUE/CHECKPOINT GYP CEILING LIGHTING 111/121	T1	OS/DIM	1
R8	120 V	1	1LOL1	9	CHECKPOINT WOOD CEILING LIGHTING - SECONDARY DAYLIGHT ZONE	P4	OS/DIM	1
R9	120 V	1	1LOL1	21	CHECKPOINT WOOD CEILING LIGHTING - NO DAYLIGHT	T1	OS/DIM	1
R10	120 V	1	1LOL1	1	HOLDROOM LIGHTING 123	T3	SWITCH	1,3
R11	120 V	1	INV-A	5	CANOPY LIGHTING - BUILDING EXTERIOR	P6	SOFTWARE	
R12	208 V	2	1LOL1	14,16	SITE POLE LIGHTING - NORTH	P2	SOFTWARE	
R13	208 V	2	1LOL1	10,12	SITE POLE LIGHTING - SOUTH	P2	SOFTWARE	
R14	208 V	2	1LOL1	15,17	APRON LIGHT POLES	P2	SOFTWARE	
R15	120 V	1	1LOL1	6	LANDSIDE SIGN	P1	SOFTWARE	

RELAY SCHEDULE GENERAL NOTES:

1. ALL TIMECLOCK SETTINGS MUST BE CONFIRMED WITH OWNER PRIOR TO ENGAGING FACTORY PROGRAMMING.
2. PROVIDE BARRIERS OR INDIVIDUAL PANELS AS NECESSARY TO SEPARATE VOLTAGES AND BRANCHES OF POWER.
3. PROVIDE NETWORKED PANELS.
4. PROVIDE CAPACITY FOR 25% SPARE RELAYS FOR FUTURE EXPANSION WITH A MINIMUM OF 2 SPACE RELAYS/ROOM CONTROLLERS PER LIGHTING CONTROL PANEL.
5. SUBMIT SHOP DRAWING WITH SCHEDULE, ENGRAVINGS, AND NUMBER OF BUTTONS PER SWITCH.
6. CONTRACTOR TO VERIFY QUANTITY OF LOW VOLTAGE SWITCHES AND LOW VOLTAGE TOUCH SCREENS SHOWN ON PLANS.

RELAY SCHEDULE KEYED NOTES:

1. THIS RELAY CONTROL CIRCUIT CONTAINS LIGHTING THAT IS ON A LIFE SAFETY POWER CIRCUIT THAT IS WIRED USING A PT (UL-924) DEVICE. INTENT IS FOR ALL LIGHTING TO BE SWITCHED TOGETHER WITH NORMAL LIGHTING UNDER NON-EMERGENCY CIRCUMSTANCES AND FOR LIFE SAFETY TO TURN ON TO 100% OUTPUT DURING LOSS OF POWER/EMERGENCY. NOTE THAT EMERGENCY CIRCUIT SHALL NOT BE WIRED THRU RELAY CABINET OR DISTRIBUTED DEVICES UNLESS ENTIRE RELAY IS POWERED FROM EMERGENCY CIRCUIT. RELAY NUMBER FOR LIFE SAFETY LIGHTING IS SHOWN ON PLANS FOR SWITCHING INTENT ONLY. SEE MANUFACTURER'S WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
2. THIS RELAY SHALL BE CONTROLLED WITH NON-DAYLIGHT RELAY IN AREA FOR TIME OVERRIDE AND DIMMING. AUTOMATIC DAYLIGHT DIMMING SHALL DIM LIGHTING TO NO LESS THAN 10% OF TOTAL OUTPUT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
3. LOW VOLTAGE SWITCH(ES) CONTROL ZONE SHALL BE DISABLED DURING NORMAL BUSINESS HOURS.

OVERRIDE DEFINITIONS:

DIM = DIMMING CONTROL REQUIRED (SEE LUMINAIRE SCHEDULE FOR COORDINATION)
SWITCH = SWITCHING ON/OFF ONLY
SOFTWARE = CONTROLLED ONLY FROM AUTOMATIC CONTROL AND LIGHTING CONTROL SOFTWARE
OS* = OCCUPANCY SENSOR OVERRIDE
T* = TIMECLOCK CONTROL
P* = PHOTOCELL CONTROL

LOW VOLTAGE AUTOMATIC CONTROL SETTINGS:

T1 AUTOMATIC TIME CONTROL WITH AUTOMATIC DAYLIGHT OVERRIDE - (ON 100%) 5AM / (DIM 20%) 11PM. PHOTOSENSOR SHALL DIM LIGHTING TO NO LESS THAN 10% OF TOTAL OUTPUT WHEN SUFFICIENT DAYLIGHT IS PRESENT.

T2 AUTOMATIC TIME CONTROL - (ON 100%) 5AM / (DIM 20%) 9PM

T3 AUTOMATIC TIME CONTROL - (ON 100%) 5AM / (OFF) MIDNIGHT

P1 EXTERIOR TIME CONTROL - (ON) DUSK / (OFF) DAWN

P2 EXTERIOR TIME CONTROL (ON) DUSK / (DIM 30%) MIDNIGHT / (OFF) DAWN

OS* OCCUPANCY SENSOR CONTROLLED FOR ON/OFF WITH OVERRIDE SWITCHES LOCATED AT ROOM ENTRIES.

ROOM CONTROLLER SCHEDULE (RC)

ROOM CONTROLLER...	RELAY			SWITCHING DEVICE	AREA CONTROLLED		DIMMABLE (Y/N)	OPERATION	KEYED NOTES
	NUMBER	VOLTAGE	SIZE		ZONE	SWITCH LEG			
RC110/121C	1	120V	20A	LV-1A, OS	ROOM 110 LIGHTS	a	Y	ON/OFF/DIM	1
	2	120V	20A	OS	ROOM 110 RECEPTACLES	b	N	ON/OFF	1
	3	120V	20A	LV-1A, OS	ROOM 121C LIGHTS	c	Y	ON/OFF/DIM	1
	4	120V	20A	OS	ROOM 121C RECEPTACLES	d	N	ON/OFF	1
RC110	1	120V	20A	LV-1A, OS	ROOM LIGHTS	a	Y	ON/OFF/DIM	1
	2	120V	20A	OS	ROOM RECEPTICLES	b	N	ON/OFF	1
RC141/151	1	120V	20A	LV-1A, OS	ROOM 141 LIGHTS	a	Y	ON/OFF/DIM	1
	2	120V	20A	OS	ROOM 141 RECEPTACLES	b	N	ON/OFF	1
	3	120V	20A	LV-1A, OS	ROOM 151 LIGHTS	c	Y	ON/OFF/DIM	1
	4	120V	20A	OS	ROOM 151 RECEPTACLES	d	N	ON/OFF	1
RC148/149	1	120V	20A	LV-1A, OS	ROOM 148 LIGHTS	a	Y	ON/OFF/DIM	1
	2	120V	20A	OS	ROOM 148 RECEPTACLES	b	N	ON/OFF	1
	3	120V	20A	LV-1A, OS	ROOM 149 LIGHTS	c	Y	ON/OFF/DIM	1
	4	120V	20A	OS	ROOM 149 RECEPTACLES	d	N	ON/OFF	1
RC143/146	1	120V	20A	LV-1B, OS	ROOM 143 LIGHTS	a	Y	ON/OFF/DIM	1
	2	120V	20A	OS	ROOM 143/146 RECEPTACLES	b	N	ON/OFF	1
	3	120V	20A	LV-1B, OS	ROOM 143 LIGHTS	c	Y	ON/OFF/DIM	1
RC150	1	120V	20A	LV-1A, OS	ROOM 150 LIGHTS	a	Y	ON/OFF/DIM	1
	2	120V	20A	OS	ROOM 150 RECEPTACLES	b	N	ON/OFF	1

GENERAL NOTES:

1. ALL PROGRAMMING SHALL BE COORDINATED AND VERIFIED WITH THE USER AGENCY.
2. EMERGENCY POWER TRANSFER DEVICES SHALL BE PROVIDED AS REQUIRED WHEREVER EMERGENCY LIGHTING IS INDICATED TO BE CONTROLLED WITH NORMAL LIGHTING. EC TO VERIFY EXACT DEVICE TYPE BASED ON THE SWITCHING ARRANGEMENTS SHOWN ON THE PLANS.

KEYED NOTES:

1. PROVIDE ROOM CONTROLLER WITH INTEGRAL TIMECLOCK FOR AUTOMATIC SWEEPING OFF OF LIGHTS AT 10:00PM. COORDINATE EXACT SWEEP-OFF TIME WITH OWNER PRIOR TO FINAL PROGRAMMING.
2. PROVIDE ROOM CONTROLLER WITH INTEGRAL TIMECLOCK. ZONE SHALL TURN ON TO 100% VIA PHOTOCELL, DIM TO 50% AT MIDNIGHT AND TURN OFF VIA PHOTOCELL.

FLOOR BOX SCHEDULE

THE SYMBOLS AND SCHEDULE ARE FOR THE CONVIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFCATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

ITEM	DESIGNATION	DESCRIPTION	APPROVED MANUFACTURER
1	FB-1	RECESSED MULTI-SERVICE FLOOR BOX, TWO (2) COMPARTMENT, CAST IRON ADJUSTABLE RECTANGULAR FLOOR BOX WITH FLUSH DIE-CAST FLANGED ALUMINUM CARPET INSERT COVER IN BRUSHED ALUMINUM, U.L. LISTED.	WIREMOLD RFB2-CI-NA STEEL CITY HUBBELL
2	FB-2	FLOOR BOX, RECESSED MULTI-SERVICE - POWER/COMMUNICATIONS, FOUR (4) COMPARTMENT, CAST IRON ADJUSTABLE RECTANGULAR FLOOR BOX WITH FLUSH DIE-CAST FLANGED ALUMINUM CARPET INSERT COVER IN BRUSHED ALUMINUM, U.L. LISTED. SEE T-SERIES DRAWINGS FOR DATA REQUIREMENTS.	WIREMOLD RFB4-CI-NA STEEL CITY HUBBELL
3	FB-3	RECESSED MULTI-SERVICE FLOOR BOX - POWER/COMMUNICATIONS, EIGHT (8) COMPARTMENT, CAST IRON ADJUSTABLE RECTANGULAR FLOOR BOXWITH DIE-CAST FLANGED ALUMINUM BLANK COVER IN BRUSHED ALUMINUM FINISH, FLUSH COVER, U.L. LISTED. SEE T-SERIES DRAWINGS FOR DATA REQUIREMENTS.	WIREMOLD EFB8-OG-CI-NA STEEL CITY HUBBELL
4	FB-4	RECESSED MULTI-SERVICE FLOOR BOX - POWER/COMMUNICATIONS, TWO (2) COMPARTMENT, CAST IRON,ADJUSTABLE RECTANGULAR FLOOR BOX WITH FLUSH DIE-CAST FLANGED ALUMINUM BLANK COVER IN BRUSHED ALUMINUM, U.L. LISTED. SEE T-SERIES DRAWINGS FOR DATA REQUIREMENTS.	WIREMOLD RFB2-CI-NA STEEL CITY HUBBELL
5	FB-5	RECESSED MULTI-SERVICE,FLOOR BOX - POWER/COMMUNICATIONS, SIX (6) COMPARTMENT, CAST IRON ADJUSTABLE RECTANGULAR FLOOR BOX WITH DIE-CAST FLANGED ALUMINUM BLANK COVER IN BRUSHED ALUMINUM FINISH, FLUSH COVER, U.L. LISTED. SEE T-SERIES DRAWINGS FOR DATA REQUIREMENTS.	WIREMOLD RFB4-CI-NA STEEL CITY HUBBELL

3

FLOOR BOX SCHEDULE NOTES:

1. COORDINATE EXACT LOCATION OF FLOOR BOX WITH FURNITURE / EQUIPMENT VENDOR, AND ARCHITECT PRIOR TO INSTALLATION
2. COORDINATE EXACT PLACEMENT OF FLOOR BOW WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MINIMUM ALLOWED DISTANCE FROM EXTERIOR WINDOW WALL AND / OR OTHER STRUCTURAL OR ARCHITECTURAL ELEMENTS PRIOR TO ROUGH-IN. FLOOR BOX SHALL NOT BE INSTALLED GREATER THAN 18" TO THE CENTER LINE OF THE COVERPLATE FROM THE EXTERIOR WINDOW WALL AND / OR INTERIOR FLOOR OPENINGS. FLOOR BOX COVERS SHALL OPEN TOWARD THE EXTERIOR WINDOWS OR OPENINGS.
3. COORDINATE COVER COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING.
4. PROVIDE ALL REQUIRED DEVICE PLATES.

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CoM NO.: CP230060
AIP NO.: 3-06-0152-030-2023
M&H NO.: R4665943-220849.01
DATE: 03.30.2023
DESIGNED BY: AH
DRAWN BY: RK
CHECKED BY: JH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
SCHEDULES

SHEET NO.:
E-602

Distribution Panel: 1DOL1

Location: Space 11 | **Supply From:** -O | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Ground and Neutral**
S.S.C.R. Rating: 35k | **Main Type:** MCB | **Main Rating:** 600 A | **Buss Rating:** 800 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	1POL1	3	100 A	100 A	13540 VA	
2	1POL2	3	100 A	100 A	14580 VA	
3	1POL3	3	100 A	100 A	19480 VA	
4	1POL4	3	100 A	100 A	22741 VA	
5	FUTURE EV	3	200 A	200 A	21840 VA	
6	1HOL1	3	400 A	400 A	106743 VA	
7	INV-A	2	60 A	20 A	2844 VA	
8	1LOL1	3	100 A	100 A	8068 VA	
9	1WOL1	3	100 A	100 A	5700 VA	
10	FUTURE SOLAR EQUIPMENT	3	60 A	50 A	0 VA	
11	SPD	3	60 A	60 A	0 VA	
12	Spare	3	60 A	60 A	0 VA	
13	Spare	3	60 A	40 A	0 VA	
14	Spare	3	60 A	30 A	0 VA	
15	Spare	3	60 A	20 A	0 VA	
16						
17						
18						
19						
20						
				Total Conn. Load:	215386 VA	
				Total Amps:	598 A	

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING...

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPTACLES	14981 VA	83.38%	12491 VA		
MOTOR	10280 VA	110.70%	11380 VA		
Other	180 VA	100.00%	180 VA	**Total Conn. Load:**	215386 VA
Spare	21840 VA	100.00%	21840 VA	**Total Demand Load:**	201883 VA
Receptacle	51140 VA	59.78%	30570 VA	**Total Design Load:**	201883 VA
Cool	73443 VA	107.24%	78757 VA	**Non-Coincidental HVAC Load**	83 A
Fans	2760 VA	116.30%	3210 VA	**Total Conn. Current:**	598 A
Heat	30000 VA	100.00%	30000 VA	**Total Demand Current:**	560 A
Lights	10910 VA	125.00%	13638 VA	**Total Design Current:**	560 A
				Total Est. Demand - NC	477 A
				Total Est. Load	171633 VA

Notes:

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Branch Panel: 1POL1

Double Tub Section R

Location: Space 11 | **Supply From:** 1DOL1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Ground and Neutral**
S.C.C.R. Rating: 10k | **Main Type:** MCB | **Main Rating:** 100 A | **Buss Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	680 VA	360 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	2			750 VA	720 VA			1	20 A	Receptacle	4
5	--	--	--					750 VA	180 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	600 VA	180 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			600 VA	180 VA			1	20 A	Receptacle	10
11	Receptacle	20 A	1					0 VA	180 VA	1	20 A	Receptacle	12
13	Receptacle	20 A	1	540 VA	180 VA					1	20 A	Receptacle	14
15	Receptacle	20 A	1			500 VA	680 VA			1	20 A	Receptacle	16
17	Receptacle	20 A	1					1000 VA	500 VA	1	20 A	OSG	18
19	Receptacle	20 A	1	600 VA	180 VA					1	20 A	FACP	20
21	Receptacle	20 A	1			500 VA	0 VA			1	20 A	Spare	22
23									0 VA	1	20 A	Spare	24
25	Receptacle	20 A	1	600 VA	0 VA					1	20 A	Spare	26
27	Receptacle	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Receptacle	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Receptacle	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Receptacle	20 A	1			180 VA	0 VA			1	20 A	Spare	34
35	GLR	20 A	1					500 VA	0 VA	1	20 A	Spare	36
37	GBC	20 A	1	600 VA	0 VA					1	20 A	Spare	38
39	GBH	20 A	2			900 VA	0 VA			1	20 A	Spare	40
41	--	--	--					900 VA	0 VA	1	20 A	Spare	42
				Total Load:		5010 VA		4010 VA					
				Total...	38 A	42 A		33 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPTACLES	180 VA	100.00%	180 VA		
MOTOR	3400 VA	113.24%	3850 VA		
Receptacle	9960 VA	100.00%	9960 VA	**Total Conn. Load:**	13540 VA
				Total Demand Load:	13990 VA
				Total Design Load:	13990 VA
				Non-Coincidental HVAC Load	0 A
				Total Conn. Current:	38 A
				Total Demand Current:	39 A
				Total Design Current:	39 A
				Total Est. Demand - NC	39 A

Notes:

Branch Panel: 1POL2

Location: Space 11 | **Supply From:** 1DOL1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Ground and Neutral**
S.C.C.R. Rating: 10k | **Main Type:** MCB | **Main Rating:** 100 A | **Buss Rating:** 100 A

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Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	720 VA	1000 VA					1	20 A	SDO	2
3	Receptacle	20 A	1			720 VA	720 VA			1	20 A	Receptacle	4
5	Receptacle	20 A	1					0 VA	540 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	540 VA	360 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			180 VA	180 VA			1	20 A	Receptacle Space 55	10
11	Receptacle	20 A	1					360 VA	1000 VA	1	20 A	Receptacle Space 57	12
13	Receptacle	20 A	1	1220 VA	1000 VA					1	20 A	Receptacle Space 57	14
15	Receptacle	20 A	1			360 VA	540 VA			1	20 A	Receptacle	16
17	Receptacle	20 A	1					720 VA	180 VA	1	20 A	Receptacle Space 40	18
19	Receptacle	20 A	1	720 VA	720 VA					1	20 A	Receptacle	20
21	Receptacle	20 A	1			1080 VA	0 VA			1	20 A	Receptacle	22
23	Receptacle Space 50	20 A	1					1000 VA	360 VA	1	20 A	Receptacle	24
25	Spare	20 A	1	0 VA	360 VA					1	20 A	Receptacle	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
				Total Load:	6640 VA	3780 VA		4160 VA					
				Total...	56 A	32 A		35 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MOTOR	1000 VA	112.50%	1125 VA		
Receptacle	13580 VA	86.82%	11790 VA		
				Total Conn. Load:	14580 VA
				Total Demand Load:	12915 VA
				Total Design Load:	12915 VA
				Non-Coincidental HVAC Load	0 A
				Total Conn. Current:	40 A
				Total Demand Current:	36 A
				Total Design Current:	36 A
				Total Est. Demand - NC	36 A

Notes:

Branch Panel: 1POL3

Location: Space 36 | **Supply From:** 1DOL1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Ground and Neutral**
S.C.C.R. Rating: 10k | **Main Type:** MCB | **Main Rating:** 100 A | **Buss Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	30 A	1	2700 VA	1500 VA					1	20 A	Receptacle	2
3	Receptacle	30 A	1			2700 VA	1500 VA			1	20 A	Receptacle	4
5	Receptacle	20 A	1					1000 VA	180 VA	1	20 A	ACCESS CONTROL PANEL	6
7	Receptacle	20 A	1	1000 VA	720 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			1000 VA	180 VA			1	20 A	ENERGIZED DOOR PANEL	10
11	Receptacle	20 A	1					1000 VA	0 VA	1	20 A	Spare	12
13	Receptacle	20 A	1	1000 VA	0 VA					1	20 A	Spare	14
15	Receptacle	20 A	1			1000 VA	0 VA			1	20 A	Spare	16
17	Receptacle	20 A	1					1000 VA	0 VA	1	20 A	Spare	18
19	Receptacle	20 A	1	1000 VA	0 VA					1	20 A	Spare	20
21	Receptacle	20 A	1			1000 VA	0 VA			1	20 A	Spare	22
23	Receptacle	20 A	1					1000 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
				Total Load:	7920 VA	7380 VA		4180 VA					
				Total...	70 A	66 A		35 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MOTOR	180 VA	125.00%	225 VA		
Other	180 VA	100.00%	180 VA		
Receptacle	19120 VA	76.15%	14560 VA	**Total Conn. Load:**	19480 VA
				Total Demand Load:	14965 VA
				Total Design Load:	14965 VA
				Non-Coincidental HVAC Load	0 A
				Total Conn. Current:	54 A
				Total Demand Current:	42 A
				Total Design Current:	42 A
				Total Est. Demand - NC	42 A

Notes:

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MERCED YOSEMITE REGIONAL AIRPORT
MERCED TERMINAL AREA PLAN

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

3 04/24/23 ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.01
DATE:	03.30.2023
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

DO NOT SCALE DRAWINGS

SHEET CONTENTS
SCHEDULES

SHEET NO.:
E-603

Branch Panel: 1POL4

Location: Space 18
Supply From: 1DOL1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Ground and Neutral

S.C.C.R. Rating: 10,000
Main Type: MCB
Main Rating: 100 A
Buss Rating: 100 A

3

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT - CONF 150	20 A	1	720 VA									2
3	RECEPT - OFFICE 151	20 A	1			180 VA	1080 VA			1	20 A	RECEPT - OFFICE 149	4
5	RECEPT - OFFICE 141	20 A	1					360 VA	0 VA	1	20 A	RECEPT FLOOR- CONF 150	6
7	RECEP-REFRIG - BREAK 143	20 A	1	0 VA	540 VA					1	20 A	RECEPT - BADGING 145, 144	8
9	RECEP - TICKETING 140	20 A	1			1180 VA	0 VA			1	20 A	RECEPT - PRINTER 146	10
11	RECEP - 135,138,&EXTERIOR	20 A	1					540 VA	0 VA	1	20 A	RECEP-BREAK 143	12
13	RECEPT - 152	20 A	1	360 VA	180 VA					1	20 A	RECEP - TICKETING 140	14
15	RECEPT - VEST 147	20 A	1			360 VA	360 VA			1	20 A	RECEPT - OUTBOUND BAGGAGE 142	16
17	RECEPT - OPEN OFFICE 146	20 A	1					720 VA	0 VA	1	20 A	RECEPT - OFFICE 148	18
19	Receptacle	20 A	1	0 VA	1000 VA					1	20 A	Receptacle Space 27	20
21	Receptacle Space 27	20 A	1			0 VA	4434 VA			3	50 A	MCP	22
23	CT-80DR+	30 A	2					750 VA	4434 VA	--	--	--	24
25	--	--	--	750 VA	4434 VA					--	--	--	26
27	Receptacle Space 38	20 A	1			180 VA							28
29	Receptacle Space 38	20 A	1					180 VA					30
31	Spare	20 A	1	0 VA									32
33	Spare	20 A	1			0 VA							34
35	Spare	20 A	1					0 VA					36
37	Spare	20 A	1	0 VA									38
39	Spare	20 A	1			0 VA							40
41	Spare	20 A	1					0 VA					42
			Total Load:	7984 VA		7774 VA		6984 VA					
			Total...	68 A		66 A		58 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPTACLES	14801 VA	83.78%	12401 VA		
Receptacle	7940 VA	100.00%	7940 VA		
				Total Conn. Load:	22741 VA
				Total Demand Load:	20341 VA
				Total Design Load:	20341 VA
				Non-Coincidental HVAC Load	0 A
				Total Conn. Current:	63 A
				Total Demand Current:	56 A
				Total Design Current:	56 A
				Total Est. Demand - NC	56 A

Notes:

Branch Panel: 1LOL1

Location: Space 11
Supply From: 1DOL1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Ground and Neutral

S.C.C.R. Rating: 10k
Main Type: MCB
Main Rating: 100 A
Buss Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lights	20 A	1	588 VA	664 VA					1	20 A	Lights	2
3	Lights	20 A	1			993 VA	345 VA			1	20 A	Lights	4
5	Lights	20 A	1					136 VA	108 VA	1	20 A	Lights	6
7	Lights	20 A	1	144 VA	1000 VA					1	20 A	AIRSIDE SIGN	8
9	Lights	20 A	1			138 VA	240 VA			2	20 A	Lights	10
11	Lights Space 51	20 A	1					231 VA	240 VA	--	--	--	12
13	Lights	20 A	1	336 VA	403 VA					2	20 A	Lights	14
15	Lights	20 A	2			482 VA	403 VA			--	--	--	16
17	--	--	--					482 VA	51 VA	1	20 A	Lights Space 37	18
19	Lights Space 37	20 A	1	171 VA	162 VA					1	20 A	Lights Space 59	20
21	Lights Space 54	20 A	1			138 VA	693 VA			1	20 A	Lights	22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	3436 VA		3405 VA		1233 VA					
			Total...	31 A		31 A		10 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lights	8068 VA	125.00%	10084 VA		
				Total Conn. Load:	8068 VA
				Total Demand Load:	10084 VA
				Total Design Load:	10084 VA
				Non-Coincidental HVAC Load	0 A
				Total Conn. Current:	22 A
				Total Demand Current:	28 A
				Total Design Current:	28 A
				Total Est. Demand - NC	28 A

Notes:

Branch Panel: 1HOL1

Location: Space 11
Supply From: 1DOL1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Ground and Neutral

S.C.C.R. Rating: 10k
Main Type: MCB
Main Rating: 400 A
Buss Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	DOAS-1	110 A	3	10000...	3983 VA					3	50 A	CU-1	2
3	--	--	--			10000...	3983 VA			--	--	--	4
5	--	--	--					10000...	3983 VA	--	--	--	6
7	FC-1	20 A	2	306 VA	4923 VA					3	60 A	CU-2	8
9	--	--	--			306 VA	4923 VA			--	--	--	10
11	FC-2	20 A	2					306 VA	4923 VA	--	--	--	12
13	--	--	--	306 VA	7085 VA					3	80 A	CU-3	14
15	FC-3	20 A	2			306 VA	7085 VA			--	--	--	16
17	--	--	--					306 VA	7085 VA	--	--	--	18
19	FC-4	20 A	2	306 VA	2800 VA					3	30 A	CU-4	20
21	--	--	--			306 VA	2800 VA			--	--	--	22
23	FC-5	20 A	2					806 VA	2800 VA	--	--	--	24
25	--	--	--	806 VA	2800 VA					3	30 A	CU-5	26
27	FC-6	20 A	2			306 VA	2800 VA			--	--	--	28
29	--	--	--					306 VA	2800 VA	--	--	--	30
31	FC-7	20 A	2	806 VA	150 VA					2	20 A	FC-9	32
33	--	--	--			806 VA	150 VA			--	--	--	34
35	EF-2	20 A	3					600 VA	806 VA	2	20 A	FC-8	36
37	--	--	--	600 VA	806 VA					--	--	--	38
39	--	--	--			600 VA	150 VA			2	20 A	FC-10	40
41	EF-3	20 A	1					360 VA	150 VA	--	--	--	42
43	EF-4	20 A	1	180 VA	600 VA					1	20 A	TF-1	44
45	EF-1	20 A	1			180 VA	360 VA			1	20 A	ROOF HVAC RECEPT	46
47													48
49													50
51													52
53													54
			Total Load:	36455 VA		35059 VA		35229 VA					
			Total...	304 A		292 A		294 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GRD S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING E=EXISTING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	540 VA	100.00%	540 VA		
Cool	73443 VA	107.24%	78757 VA		
Fans	2760 VA	116.30%	3210 VA	**Total Conn. Load:**	106743 VA
Heat	30000 VA	100.00%	30000 VA	**Total Demand Load:**	112507 VA
				Total Design Load:	112507 VA
				Non-Coincidental HVAC Load	83 A
				Total Conn. Current:	296 A
				Total Demand Current:	312 A
				Total Design Current:	312 A
				Total Est. Demand - NC	229 A

Notes:

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1360 19th Hole Drive, Suite 200
Windsor CA 95492
phone: 707-526-5010
meadhunt.com

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20791
ELECTRICAL
STATE OF CALIFORNIA

04/21/2023

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SHEET CONTENTS
SCHEDULES

SHEET NO.:
E-604

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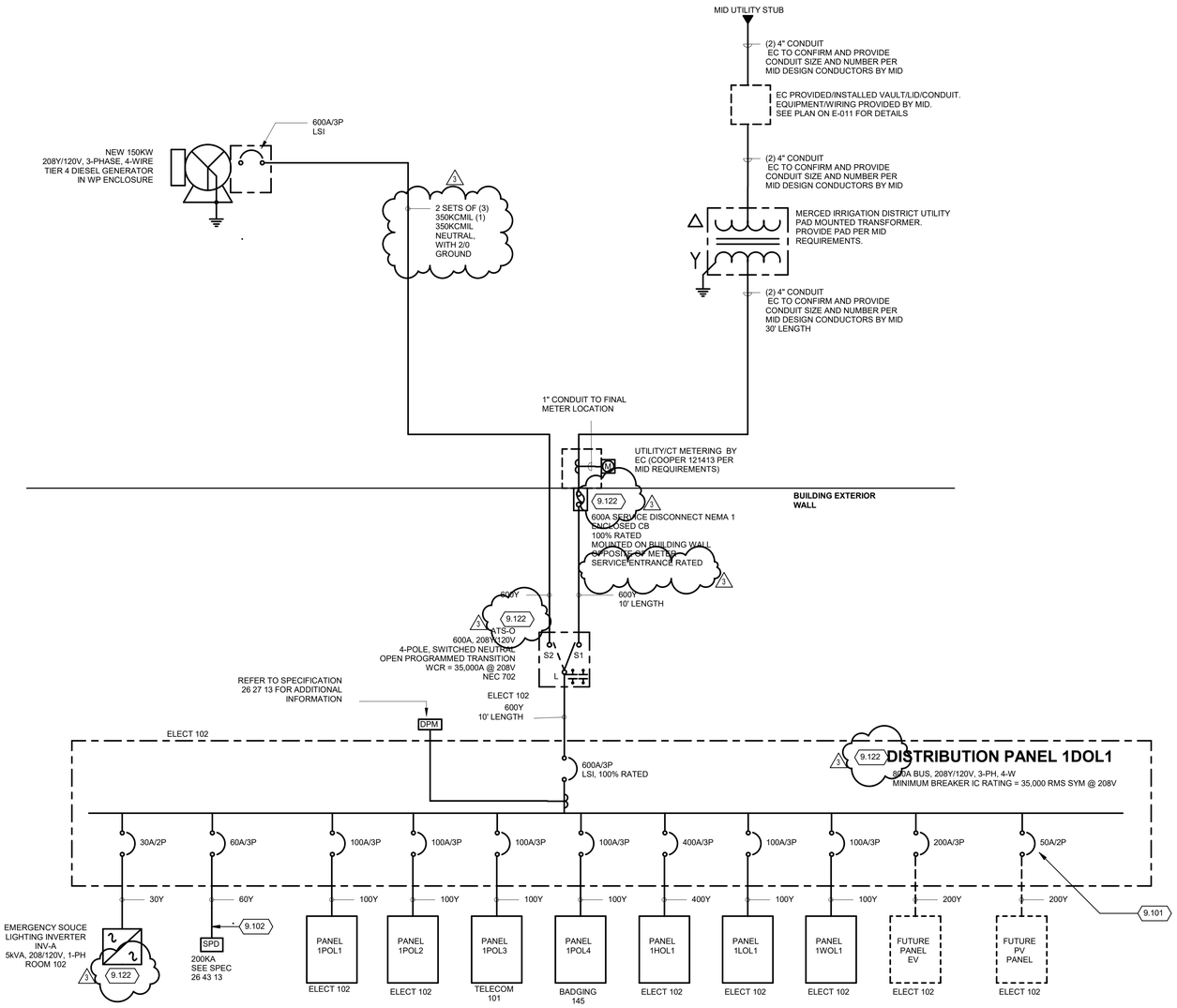

COPPER BRANCH CIRCUIT & FEEDER SCHEDULE

MARK	AMPACITY	NO. OF SETS	CONDUCTOR SIZES (AWG or KCMIL)				CONDUIT SIZE
			PHASE	NEUTRAL	EQ GND	ISO GND	
20	20	1	3 - # 12	-	1 - # 12	-	1/2"
20Y	20	1	3 - # 12	1 - # 12	1 - # 12	-	1/2"
25	25	1	3 - # 10	-	1 - # 10	-	1/2"
25Y	25	1	3 - # 10	1 - # 10	1 - # 10	-	1/2"
30	30	1	3 - # 10	-	1 - # 10	-	3/4"
30Y	30	1	3 - # 10	1 - # 10	1 - # 10	-	3/4"
35	35	1	3 - # 8	-	1 - # 10	-	3/4"
35Y	35	1	3 - # 8	1 - # 8	1 - # 10	-	3/4"
40	40	1	3 - # 8	-	1 - # 10	-	3/4"
40Y	40	1	3 - # 8	1 - # 8	1 - # 10	-	1"
45	45	1	3 - # 6	-	1 - # 10	-	1"
45Y	45	1	3 - # 6	1 - # 6	1 - # 10	-	1"
50	50	1	3 - # 6	-	1 - # 10	-	1"
50Y	50	1	3 - # 6	1 - # 6	1 - # 10	-	1-1/4"
60	60	1	3 - # 4	-	1 - # 10	-	1-1/4"
60Y	60	1	3 - # 4	1 - # 4	1 - # 10	-	1-1/4"
70	70	1	3 - # 4	-	1 - # 8	-	1-1/4"
70Y	70	1	3 - # 4	1 - # 4	1 - # 8	-	1-1/4"
80	80	1	3 - # 3	-	1 - # 8	-	1-1/4"
80Y	80	1	3 - # 3	1 - # 3	1 - # 8	-	1-1/4"
90	90	1	3 - # 3	-	1 - # 8	-	1-1/4"
90Y	90	1	3 - # 3	1 - # 3	1 - # 8	-	1-1/4"
100	100	1	3 - # 3	-	1 - # 8	-	1-1/4"
100Y	100	1	3 - # 3	1 - # 3	1 - # 8	-	1-1/4"
110	110	1	3 - # 2	-	1 - # 6	-	1-1/4"
110Y	110	1	3 - # 2	1 - # 2	1 - # 6	-	1-1/4"
125	125	1	3 - # 1/0	-	1 - # 6	-	1-1/2"
125Y	125	1	3 - # 1/0	1 - # 1/0	1 - # 6	-	2"
150	150	1	3 - # 1/0	-	1 - # 6	-	1-1/2"
150Y	150	1	3 - # 1/0	1 - # 1/0	1 - # 6	-	2"
175	175	1	3 - # 2/0	-	1 - # 6	-	2"
175Y	175	1	3 - # 2/0	1 - # 2/0	1 - # 6	-	2"
200	200	1	3 - # 3/0	-	1 - # 6	-	2"
200Y	200	1	3 - # 3/0	1 - # 3/0	1 - # 6	-	2-1/2"
225	225	1	3 - # 4/0	-	1 - # 4	-	2"
225Y	225	1	3 - # 4/0	1 - # 4/0	1 - # 4	-	2-1/2"
250	250	1	3 - 250	-	1 - #4	-	2-1/2"
250Y	250	1	3 - 250	1 - 250	1 - #4	-	3"
300	300	1	3 - 350	-	1 - # 4	-	3"
300Y	300	1	3 - 350	1 - 350	1 - # 4	-	3-1/2"
350	350	1	3 - 500	-	1 - # 3	-	3"
350Y	350	1	3 - 500	1 - 500	1 - # 3	-	3-1/2"
380	380	1	3 - 500	-	1 - # 3	-	3"
380Y	380	1	3 - 500	1 - 500	1 - # 3	-	3-1/2"
400	400	2	3 - # 3/0	-	1 - # 3	-	2"
400Y	400	2	3 - # 3/0	1 - # 3/0	1 - # 3	-	2-1/2"
450	450	2	3 - # 4/0	-	1 - # 2	-	2"
450Y	450	2	3 - # 4/0	1 - # 4/0	1 - # 2	-	2-1/2"
500	500	2	3 - 250	-	1 - # 2	-	2-1/2"
500Y	500	2	3 - 250	1 - 250	1 - # 2	-	3"
600	600	2	3 - 350	-	1 - # 1	-	3"
600Y	600	2	3 - 350	1 - 350	1 - # 1	-	3"
700	700	2	3 - 500	-	1 - # 1/0	-	3"
700Y	700	2	3 - 500	1 - 500	1 - # 1/0	-	3-1/2"
800	800	2	3 - 500	-	1 - # 1/0	-	3"
800Y	800	2	3 - 500	1 - 500	1 - # 1/0	-	3 - 1/2"
1000	1000	3	3 - 400	-	1 - # 2/0	-	3"
1000Y	1000	3	3 - 400	1 - 400	1 - # 2/0	-	3-1/2"
1200	1200	4	3 - 350	-	1 - # 3/0	-	3"
1200Y	1200	4	3 - 350	1 - 350	1 - # 3/0	-	3"
1600	1600	5	3 - 400	-	1 - # 4/0	-	3"
1600Y	1600	5	3 - 400	1 - 400	1 - # 4/0	-	3 - 1/2"
2000	2000	6	3 - 400	-	1 - 250	-	3"
2000Y	2000	6	3 - 400	1 - 400	1 - 250	-	3 - 1/2"
2500	2500	7	3 - 500	-	1 - 350	-	3 - 1/2"
2500Y	2500	7	3 - 500	1 - 500	1 - 350	-	4"
3000	3000	8	3 - 500	-	1 - 400	-	3 - 1/2"
3000Y	3000	8	3 - 500	1 - 500	1 - 400	-	4"
4000	4000	11	3 - 500	-	1 - 500	-	3 - 1/2"
4000Y	4000	11	3 - 500	1 - 500	1 - 500	-	4"

SCHEDULE NOTES:

1. THE SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME OF THE SIZES MAY NOT APPLY TO THIS PROJECT.
2. ALL THE CONDUCTOR AMPACITIES ARE BASED ON TABLE [310.16] [310.15(B)(16)] OF THE NEC FOR COPPER CONDUCTORS (75 DEGREE CELSIUS CHART).
3. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO THE CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR DERATION FACTORS AND/OR OVERSIZED FOR VOLTAGE DROP PER NEC REQUIREMENTS.

ONE-LINE SYMBOLS

- AUTOMATIC TRANSFER SWITCH
- LOW VOLTAGE CIRCUIT BREAKER
- CURRENT TRANSFORMER (# DENOTES QUANTITY)
- DIGITAL POWER METER
- FUSED DISCONNECT SWITCH
- GENERATOR
- EARTH GROUND
- METER
- NEUTRAL BOND
- NON-FUSED DISCONNECT SWITCH
- NORMALLY CLOSED CONTACT
- NORMALLY OPEN CONTACT
- PANELBOARD (ELEVATION VIEW)
- SURGE PROTECTIVE DEVICE
- TRANSFORMER
- UNINTERRUPTIBLE POWER SUPPLY (UPS)
- UTILITY CONNECTION

KEYED NOTES

9.101 BACKFEED RATED DOUBLE POLE CIRCUIT BREAKER FOR PV SYSTEM TIE-IN

9.102 SURGE PROTECTION DEVICE CONDUCTORS SHALL BE INSTALLED SO THEY ARE AS SHORT AS POSSIBLE. IN NO CIRCUMSTANCE SHALL THE LENGTH EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM LENGTH.

9.122 EC TO PROVIDE SIGNAGE IN COMPLIANCE WITH CEC ARTICLE 700 FOR THIS PIECE OF EQUIPMENT.

1 ONE-LINE POWER DIAGRAM

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REGISTERED PROFESSIONAL ENGINEER JOHN R. HUDOCK 20791 ELECTRICAL STATE OF CALIFORNIA

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MERCED TERMINAL AREA PLAN

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ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

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M&H NO.:	R4665943-220849.01
DATE:	03.30.2023
DESIGNED BY:	AH
DRAWN BY:	RK
CHECKED BY:	JH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
ONE-LINE DIAGRAM

SHEET NO.:
E-701

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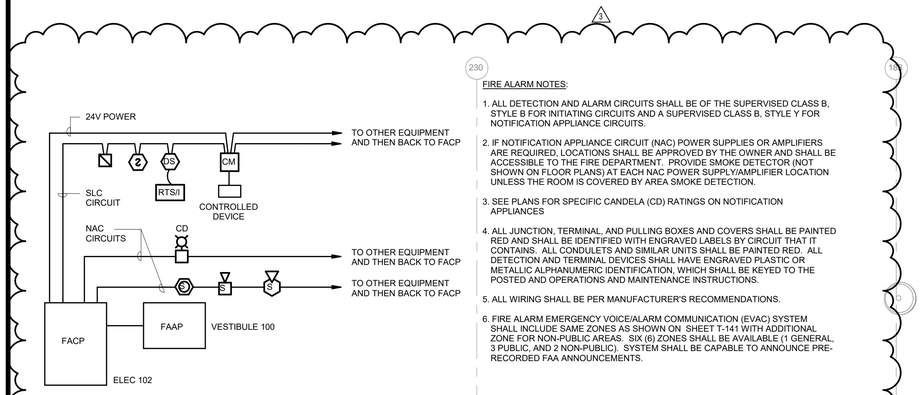
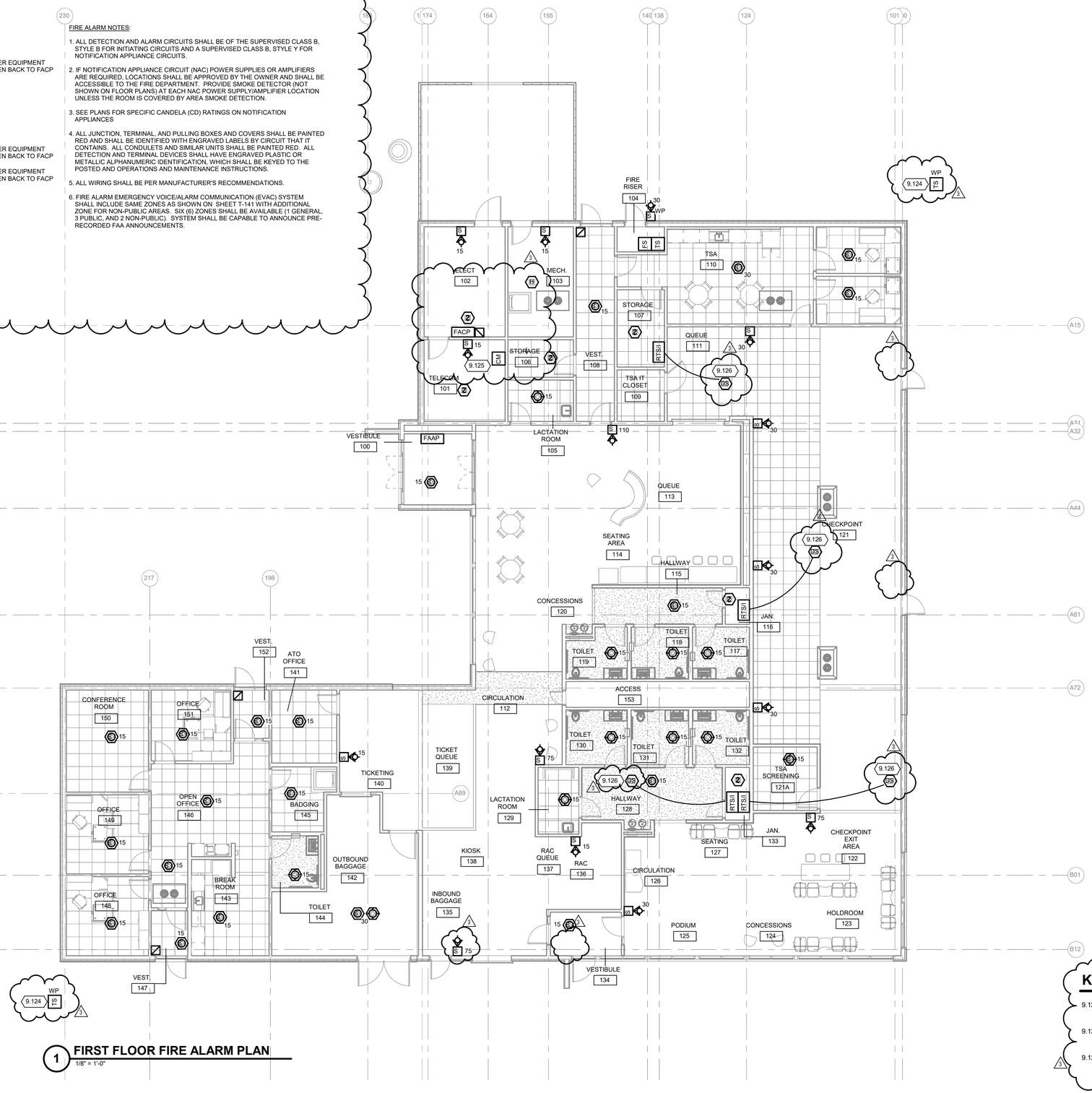


3 ONE-LINE DIAGRAM

12" = 1'-0"

FIRE ALARM NOTES:

1. ALL DETECTION AND ALARM CIRCUITS SHALL BE OF THE SUPERVISED CLASS B, STYLE B FOR INITIATING CIRCUITS AND A SUPERVISED CLASS B, STYLE Y FOR NOTIFICATION APPLIANCE CIRCUITS.
2. IF NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER SUPPLIES OR AMPLIFIERS ARE REQUIRED, LOCATIONS SHALL BE APPROVED BY THE OWNER AND SHALL BE ACCESSIBLE TO THE FIRE DEPARTMENT. PROVIDE SMOKE DETECTOR (NOT SHOWN ON FLOOR PLANS) AT EACH NAC POWER SUPPLY/AMPLIFIER LOCATION UNLESS THE ROOM IS COVERED BY AREA SMOKE DETECTION.
3. SEE PLANS FOR SPECIFIC CANDELA (CD) RATINGS ON NOTIFICATION APPLIANCES
4. ALL JUNCTION, TERMINAL, AND PULLING BOXES AND COVERS SHALL BE PAINTED RED AND SHALL BE IDENTIFIED WITH ENGRAVED LABELS BY CIRCUIT THAT IT CONTAINS. ALL CONDULETS AND SIMILAR UNITS SHALL BE PAINTED RED. ALL DETECTION AND TERMINAL DEVICES SHALL HAVE ENGRAVED PLASTIC OR METALLIC ALPHANUMERIC IDENTIFICATION, WHICH SHALL BE KEYED TO THE POSTED AND OPERATIONS AND MAINTENANCE INSTRUCTIONS.
5. ALL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
6. FIRE ALARM EMERGENCY VOICE/ALARM COMMUNICATION (EVAC) SYSTEM SHALL INCLUDE SAME ZONES AS SHOWN ON SHEET T-141 WITH ADDITIONAL ZONE FOR NON-PUBLIC AREAS. SIX (6) ZONES SHALL BE AVAILABLE (1 GENERAL, 3 PUBLIC, AND 2 NON-PUBLIC). SYSTEM SHALL BE CAPABLE TO ANNOUNCE PRE-RECORDED FAA ANNOUNCEMENTS.



1 FIRST FLOOR FIRE ALARM PLAN

1/8" = 1'-0"

FIRE ALARM SYMBOLS

FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FSS	FIRE SUPPRESSION SYSTEM PANEL
KNOX	CABINET FOR HOLDING FIRE DEPARTMENT DOCUMENTS & KEYS WITH INTEGRAL TAMPER SWITCH. KNOX BRAND # 4400 OR APPROVED EQUAL. SEE DRAWING ##.
	FIRE ALARM PULL STATION
H	FIRE ALARM HORN
S	FIRE ALARM SPEAKER
## H	FIRE ALARM HORN/STROBE, (##) IS CANDELA RATING
## S	FIRE ALARM SPEAKER/STROBE, (##) IS CANDELA RATING
S	SUPERVISED FIRE ALARM HORN LOUDSPEAKER
##	FIRE ALARM STROBE, (##) IS CANDELA RATING
B	FIRE ALARM BELL
2	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR
2 ER	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR FOR ELEVATOR RECALL
2 SD	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR FOR SMOKE DAMPER CONTROL
H	INTELLIGENT 135°F FIXED & RATE OF RISE HEAT DETECTOR (15°F/M), (20°F/M), UNLESS NOTED ON DRAWINGS
HF	HEAT DETECTOR, [190], [194] OR [200]°F FIXED TEMP.2 WIRE OPERATION. [PROVIDE ADDRESSABLE CONTROL MODULE]
HX	EXPLOSION PROOF HEAT DETECTOR, COMBINATION RATE OF RISE AND 135°F FIXED TEMPERATURE, 2-WIRE OPERATION. [PROVIDE ADDRESSABLE CONTROL MODULE.] HAZARDOUS CLASSIFICATION: [CLASS-I], [CLASS-II], [GROUP C], [GROUP D], [GROUP E], [GROUP F], AND [GROUP G].
DS	INTELLIGENT PHOTOELECTRIC DUCT SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
##	CEILING MOUNTED FIRE ALARM STROBE, (##) IS CANDELA RATING
## S	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE, (##) IS CANDELA RATING
S	CEILING MOUNTED FIRE ALARM SPEAKER
## H	CEILING MOUNTED FIRE ALARM HORN/STROBE, (##) IS CANDELA RATING
H	CEILING MOUNTED FIRE ALARM HORN
MM	MONITOR MODULE
CM	CONTROL MODULE
IM	ISOLATOR MODULE
DH	MAGNETIC DOOR HOLDER
ES	ELECTRIC DOOR STRIKE
	FIRE FIGHTERS TELEPHONE
	FIRE FIGHTERS TELEPHONE JACK
FS	FLOW SWITCH FOR SPRINKLER SYSTEM SUPERVISORY FLOW ALARM, NORMALLY OPEN DRY CONTACTS FOR FIRE ALARM INTERFACE, FURNISHED BY MC, WIRED BY EC.
TS	MONITOR SWITCH (TAMPER SWITCH) FOR SPRINKLER SYSTEM SUPERVISORY TROUBLE NOTIFICATION, NORMALLY OPEN DRY CONTACTS FOR FIRE ALARM INTERFACE, FURNISHED BY MC, WIRED BY EC.
PE	PRESSURE SWITCH
PS	PRE-ACTION SOLENOID
RTS/I	REMOTE TEST SWITCH WITH INDICATOR
PM	POST INDICATOR SWITCH (PROVIDE ADDRESSABLE CONTROL MODULE).
HDS	ELEVATOR HOISTWAY DAMPER SWITCH
HA	HALON AUDIBLE ALARM
HP	FIRE HALON PULL STATION
HS	HALON STROBE
NAC	FIRE ALARM NOTIFICATION APPLIANCE EXTENDER PANEL

FIRE ALARM GENERAL NOTES:

1. BUILDING TO HAVE COMPLETE BUILDING SMOKE DETECTION. FINAL LAYOUT BY FIRE ALARM CONTRACTOR.

KEYED NOTES

9.124 COORDINATE ROUGH-IN INSTALLATION FOR KNOX BOX TAMPER SWITCH AT THIS LOCATION WITH ARCHITECTURAL.

9.125 PROVIDE FIRE ALARM RELAY FOR PUBLIC ADDRESS SYSTEM SHUTDOWN. SEE COMMUNICATIONS DRAWINGS FOR DETAILS.

9.126 CONNECT TO DUCT SMOKE DETECTOR FOR FCU AND DOAS RETURNS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS.

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REGISTERED PROFESSIONAL ENGINEER JOHN R. HUDOCK 20791 ELECTRICAL STATE OF CALIFORNIA

04/21/2023

MERCED

MERCED YOSEMITE REGIONAL AIRPORT
MERCED TERMINAL AREA PLAN

20 MACREADY DRIVE
MERCED, CA 95641

ISSUED

	03/30/23	PERMIT SUBMITTAL / BID SET
3	04/24/23	ADDENDUM 3

CoM NO.:	CP230060
AIP NO.:	3-06-0152-030-2023
M&H NO.:	R4665943-220849.01
DATE:	03.30.2023
DESIGNED BY:	AH
DRAWN BY:	RK
CHECKED BY:	JH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
FIRST FLOOR FIRE ALARM PLAN

SHEET NO.:
F-141

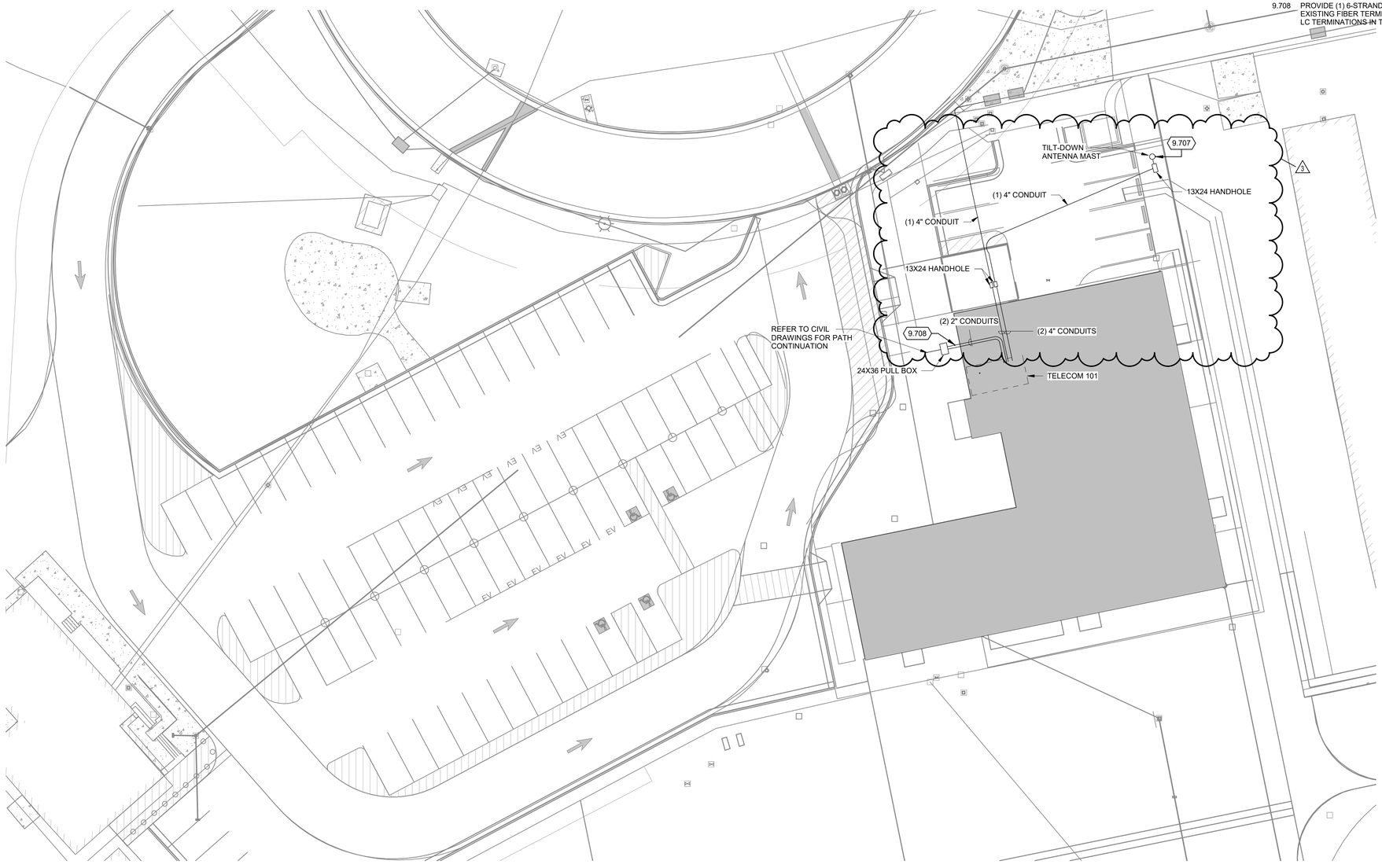
COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, T-600 SERIES FOR SCHEDULES, AND T-700 SERIES FOR RISER DIAGRAMS.
3. REFER TO CIVIL SHEETS C-420 AND C-421 FOR SITE CONDUIT PATHWAYS.

KEYED NOTES

9.707 PROVIDE CONDUIT PATHWAYS AS DEPICTED. TRANSITION FROM 4" CONDUIT TO (2) FLEXIBLE WATERPROOF CONDUITS AT HANDHOLE AND EXTEND CONDUITS TO TOP OF ANTENNA MAST. SECURE CONDUITS AT TOP OF MAST WITH ENOUGH SLACK AND MOVEMENT IN CONDUIT TO NOT IMPEDE THE TILT-DOWN OPERATION OF THE ANTENNA MAST OR RESULT IN STRETCHING OR KINKING OF THE CONDUIT OR CABLES. PROVIDE (2) LMR-600 COAXIAL CABLES FROM THE ANTENNAS TO TELECOM 101 AND TERMINATE WITH TYPE-N CONNECTORS. PROVIDE (2) SHIELDED CAT6A CABLES FROM TELECOM 101 TO THE TOP OF THE ANTENNA MAST TERMINATED IN A WEATHERPROOF ENCLOSURE.

9.708 PROVIDE (1) 6-STRAND SINGLE-MODE FIBER FROM TELECOM 101 TO THE EXISTING FIBER TERMINATION PANEL IN THE EXISTING TERMINAL. PROVIDE LC TERMINATIONS IN THE FIBER PANELS AT BOTH ENDS.



TRUE NORTH PLAN NORTH

1 **COMMUNICATIONS SITE PLAN**
1" = 20'-0"

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CHECKED BY: EJG

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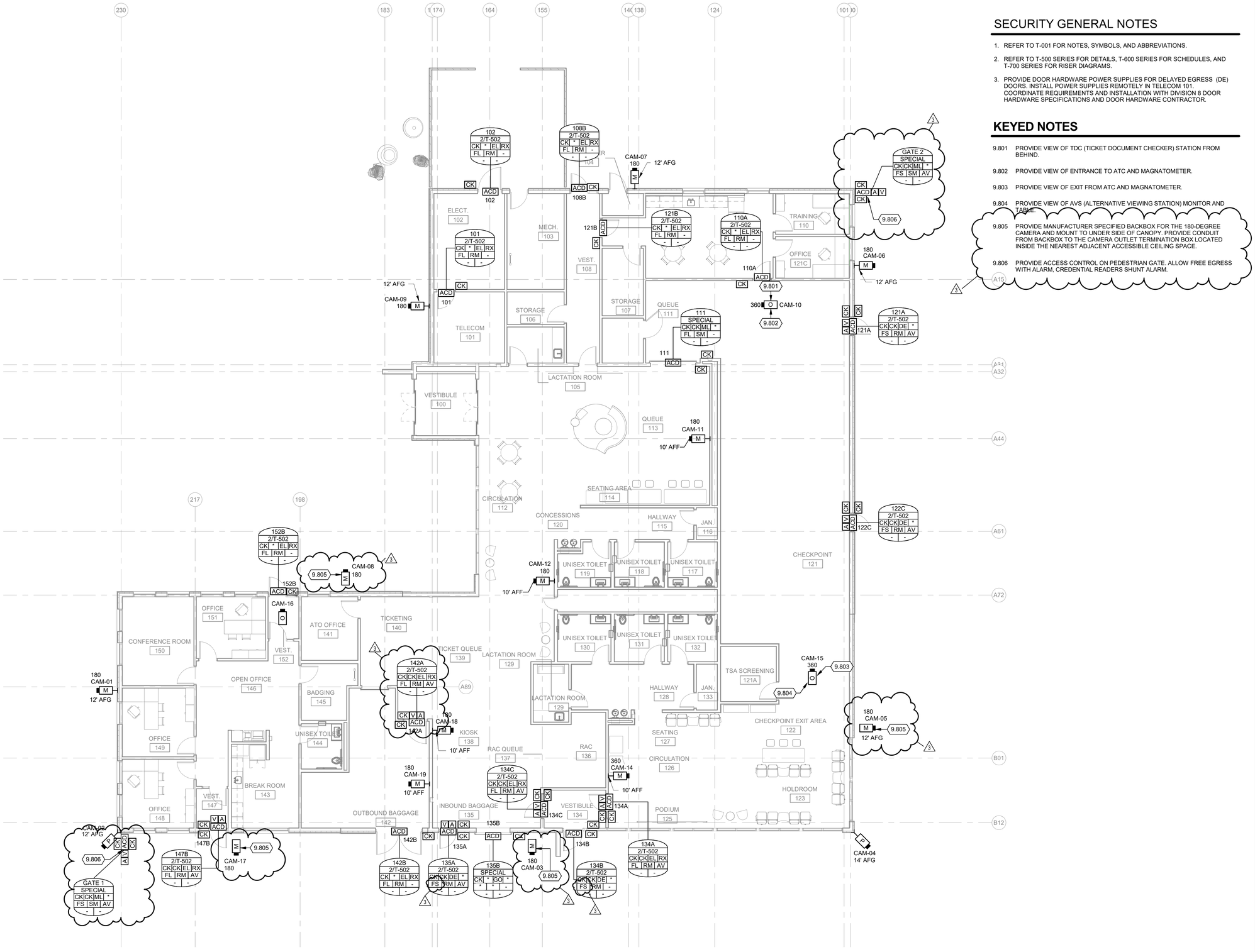
SHEET CONTENTS
COMMUNICATIONS SITE PLAN

SHEET NO.:
T-100



SECURITY GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, T-600 SERIES FOR SCHEDULES, AND T-700 SERIES FOR RISER DIAGRAMS.
3. PROVIDE DOOR HARDWARE POWER SUPPLIES FOR DELAYED EGRESS (DE) DOORS. INSTALL POWER SUPPLIES REMOTELY IN TELECOM 101. COORDINATE REQUIREMENTS AND INSTALLATION WITH DIVISION 8 DOOR HARDWARE SPECIFICATIONS AND DOOR HARDWARE CONTRACTOR.

KEYED NOTES

9.801 PROVIDE VIEW OF TDC (TICKET DOCUMENT CHECKER) STATION FROM BEHIND.

9.802 PROVIDE VIEW OF ENTRANCE TO ATC AND MAGNATOMETER.

9.803 PROVIDE VIEW OF EXIT FROM ATC AND MAGNATOMETER.

9.804 PROVIDE VIEW OF AVS (ALTERNATIVE VIEWING STATION) MONITOR AND TABLE.

9.805 PROVIDE MANUFACTURER SPECIFIED BACKBOX FOR THE 180-DEGREE CAMERA AND MOUNT TO UNDER SIDE OF CANOPY. PROVIDE CONDUIT FROM BACKBOX TO THE CAMERA OUTLET TERMINATION BOX LOCATED INSIDE THE NEAREST ADJACENT ACCESSIBLE CEILING SPACE.

9.806 PROVIDE ACCESS CONTROL ON PEDESTRIAN GATE. ALLOW FREE EGRESS WITH ALARM, CREDENTIAL READERS SHUNT ALARM.

FIRST FLOOR SECURITY PLAN

1/8" = 1'-0"

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SHEET CONTENTS
FIRST FLOOR SECURITY PLAN

SHEET NO.:
T-121

VIDEO SURVEILLANCE SCHEDULE

CAMERA ID	LOCATION	CAMERA CONFIGURATION TYPE	CAMERA CONFIGURATION SUBTYPE	HORIZONTAL VIEW ANGLE	MOUNTING CONDITIONS TYPE	MOUNTING CONDITIONS HEIGHT	MOUNTING CONDITIONS DETAIL	TERMINATION POINT
CAM-01	EXTERIOR	MULTISENSOR	10 MP	180.00°	WALL	12'-0"	1/T-501	TECH ROOM
CAM-02	EXTERIOR	PAN-TILT-ZOOM	36X	360.00°	EXTERIOR CORNER	12'-0"	7/T-501	TECH ROOM
3 CAM-03	EXTERIOR	MULTISENSOR	5 MP	180.00°	CEILING		2/T-501	TECH ROOM
CAM-04	EXTERIOR	PAN-TILT-ZOOM	36X	360.00°	EXTERIOR CORNER	14'-0"	7/T-501	TECH ROOM
3 CAM-05	EXTERIOR	MULTISENSOR	5 MP	180.00°	CEILING		2/T-501	TECH ROOM
CAM-06	EXTERIOR	MULTISENSOR	10 MP	180.00°	WALL	12'-0"	1/T-501	TECH ROOM
CAM-07	EXTERIOR	MULTISENSOR	10 MP	180.00°	WALL	12'-0"	1/T-501	TECH ROOM
3 CAM-08	EXTERIOR	MULTISENSOR	5 MP	180.00°	CEILING		2/T-501	TECH ROOM
CAM-09	EXTERIOR	MULTISENSOR	10 MP	180.00°	WALL	12'-0"	1/T-501	TECH ROOM
CAM-10	121 - CHECKPOINT	FISHEYE	12 MP	360.00°	CEILING		2/T-501	TECH ROOM
CAM-11	113 - QUEUE	MULTISENSOR	10 MP	180.00°	WALL	10'-0"	1/T-501	TECH ROOM
CAM-12	120 - CONCESSIONS	MULTISENSOR	10 MP	180.00°	WALL	10'-0"	1/T-501	TECH ROOM
CAM-14	126 - CIRCULATION	MULTISENSOR	10 MP	180.00°	WALL	10'-0"	1/T-501	TECH ROOM
CAM-15	121 - CHECKPOINT	FISHEYE	12 MP	360.00°	CEILING		2/T-501	TECH ROOM
CAM-16	152 - VEST.	FISHEYE	12 MP	360.00°	CEILING		2/T-501	TECH ROOM
CAM-17	EXTERIOR	MULTISENSOR	5 MP	180.00°	CEILING		2/T-501	TECH ROOM
3 CAM-18	138 - KIOSK	MULTISENSOR	10 MP	180.00°	WALL	10'-0"	1/T-501	TECH ROOM
CAM-19	142 - OUTBOUND BAGGAGE	MULTISENSOR	10 MP	180.00°	WALL	10'-0"	1/T-501	TECH ROOM

ACCESS CONTROLLED DOOR SCHEDULE

DOOR ID	LEVEL	NEW/EXISTING	DETAIL	CREDENTIAL READER SIDE 1	CREDENTIAL READER SIDE 2	LOCKING MECHANISM	REQUEST TO EXIT	DOOR MONITOR	FAIL OPERATION	AUTOMATIC DOOR OPERATOR	LOCAL ALARMS	FIRE ALARM INTERFACE	POWER TRANSFER	COMMENTS	ADDITIONAL NOTES
142B	FIRST FLOOR	New Construction		CK	*	EL	RX	RM	FL	-	-	-	PT		
3 142A	FIRST FLOOR	New Construction		CK	CK	EL	RX	RM	FL	-	AV	-	PT		
142C	FIRST FLOOR	New Construction		CK	*	EL	RX	RM	FL	-	-	-	PT		
147B	FIRST FLOOR	New Construction		CK	CK	EL	RX	RM	FL	-	AV	-	PT		
3 135A	FIRST FLOOR	New Construction		CK	CK	DE	*	RM	FS	-	AV	-	PT	DELAYED EGRESS	PROVIDE DELAYED EGRESS LOCKSET POWER SUPPLY
134C	FIRST FLOOR	New Construction		CK	CK	EL	RX	RM	FL	-	AV	-	PT		
134A	FIRST FLOOR	New Construction		CK	CK	EL	RX	RM	FL	-	AV	-	PT		
101	FIRST FLOOR	New Construction		CK	*	EL	RX	RM	FL	-	-	-	PT		
111	FIRST FLOOR	New Construction		CK	CK	ML	*	SM	FL	-	-	-	-	INTEGRATE WITH COILING GRILLE OPERATOR/LOCK	
121A	FIRST FLOOR	New Construction		CK	CK	DE	*	RM	FS	-	AV	-	PT	DELAYED EGRESS	PROVIDE DELAYED EGRESS LOCKSET POWER SUPPLY
110A	FIRST FLOOR	New Construction		CK	*	EL	RX	RM	FL	-	-	-	PT		
121B	FIRST FLOOR	New Construction		CK	*	EL	RX	RM	FL	-	-	-	PT		
108B	FIRST FLOOR	New Construction		CK	*	EL	RX	RM	FL	-	-	-	PT		
135B	FIRST FLOOR	New Construction		CK	*	GO	*	*	FL	-	-	-	-	INTEGRATE WITH BAG DOOR OPERATOR/CONTROL PANEL	
3 134B	FIRST FLOOR	New Construction		CK	CK	DE	*	RM	FS	-	-	-	PT	DELAYED EGRESS	PROVIDE DELAYED EGRESS LOCKSET POWER SUPPLY
122C	FIRST FLOOR	New Construction		CK	CK	DE	*	RM	FS	-	AV	-	PT	DELAYED EGRESS	PROVIDE DELAYED EGRESS LOCKSET POWER SUPPLY
102	FIRST FLOOR	New Construction		CK	*	EL	RX	RM	FL	-	-	-	PT		
GATE 1	FIRST FLOOR	New Construction		CK	CK	ML	*	SM	FS	-	AV	-	-		
3 GATE 2	FIRST FLOOR	New Construction		CK	CK	ML	*	SM	FS	-	AV	-	-		

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SHEET CONTENTS
SCHEDULES

SHEET NO.:
T-601

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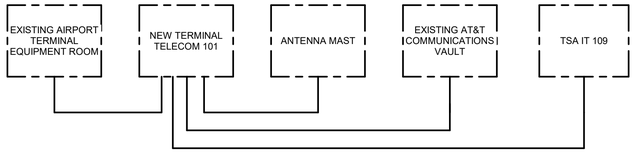
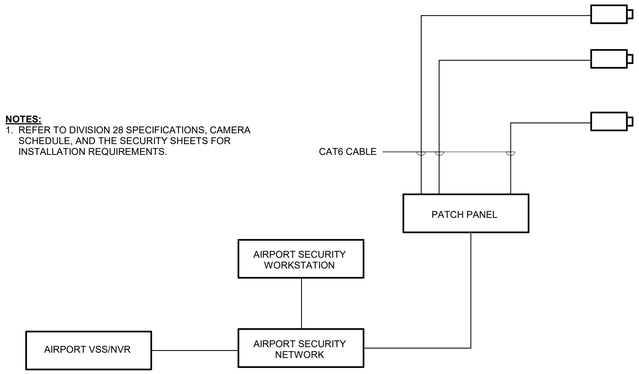


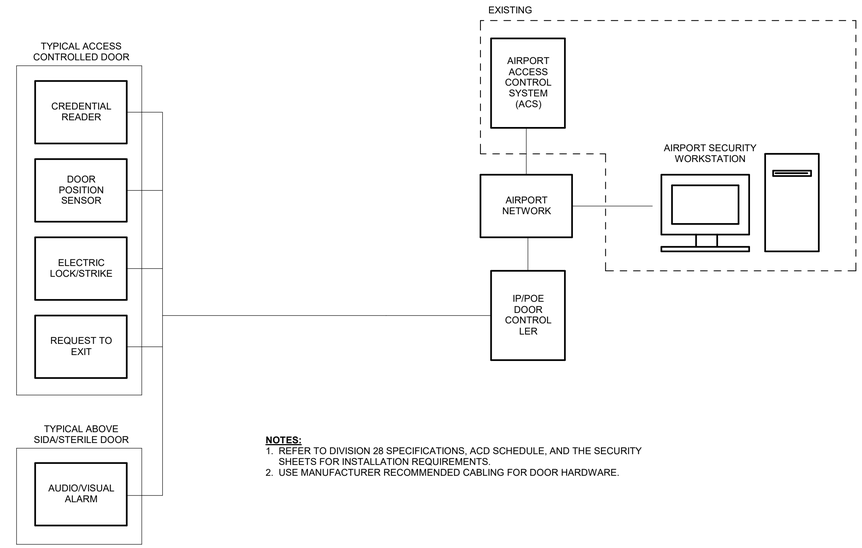
BACKBONE CABLE SCHEDULE

CROSS-SECTION	COPPER PAIRS	MMFO CABLE	SMFO CABLE	PATHWAY	REMARKS
EQUIPMENT ROOM TO TELECOM 101			6	(2) 2" CONDUITS	
TELECOM 101 TO TSA IT 109	25		6	(1) 2" CONDUIT	
TELECOM 101 TO AT&T VAULT				(1) 4" CONDUIT	PATHWAY
TELECOM 101 TO ANTENNA MAST				(1) 4" CONDUIT	(2) LMR-600 C (2) SHIELDED CAT6A

3 BACKBONE AND PATHWAYS
NO SCALE



1 CAMERA ONE-LINE DIAGRAM (TYPICAL)
NO SCALE



2 ACCESS CONTROL ONE-LINE DIAGRAM (TYPICAL)
NO SCALE

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SHEET CONTENTS
ONE-LINE DIAGRAMS

SHEET NO.:
T-701

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