OWNER:
MISSION VILLAGE SHOPPING CENTER II, L.P.

PROPERTY MANAGEMENT:
REGIONAL PROPERTIES, INC

TENANT:

PANERA BREAD BAKERY-CAFE #: 6360

SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

ENTITLEMENTS

INDEX OF DRAWINGS:

N

SITE MAP:

CODE INFORMATION:

APPLICABLE CODES & REGULATIONS:

BUILDING CODE:	2022 CALIFORNIA BUILDING CODE
PLUMBING CODE:	2022 CALIFORNIA PLUMBING CODE
ELECTRICAL CODE:	2022 CALIFORNIA ELECTRICAL CODE 2023 NFPA 70
MECHANICAL CODE:	2022 CALIFORNIA MECHANICAL CODE
FIRE PROTECTION:	2022 CALIFORNIA FIRE CODE
ENERGY CODE:	2022 CALIFORNIA ENERGY CODE
ACCESSIBILITY CODE:	2019 TITLE 24

CODE CLASSIFICATION:

A. OCCUPANCY GROUP:	A-2
B. CONSTRUCTION CLASSIFICATION:	TYPE V-B
C. AUTOMATIC FIRE SUPRESSION SYSTEM INSTALLED:	YES

TRAVEL DISTANCE:

ALLOWED TRAVEL DISTANCE:	250 FT
ACTUAL TRAVEL DISTANCE:	103'-0" FT MAX

PROPERTY INFORMATION

OWNER
MISSION VILLAGE SHOPPING CENTER II, L.P.
9150 WILSHIRE BLVD, SUITE 210
BEVERLY HILLS, CA 90212

PROPERTY MANAGEMENT
REGIONAL PROPERTIES, INC
9150 WILSHIRE BLVD, SUITE 210
BEVERLY HILLS, CA 90212
CONTACT: MICHELLE RUBIN
PHONE: 310.553.7846
EMAIL: michelle@regionalpropertiesinc.com

AUTHORITY

PLANNING/ZONING DEPARTMENT :
3900 MAIN ST., THIRD FLOOR
RIVERSIDE, CA 92522
PHONE: 951.826.5371

DESIGN TEAM

ARCHITECT OF RECORD
ARCHITECTS ORANGE (AO)
144 N. ORANGE STREET
ORANGE,CA 92866
CONTACT: GERALD MICHAELS, PROJECT MANAGER
PHONE: 714.639-9860
EMAIL: geraldm@aoarchitects.com

STRUCTRAL ENGINEER OF RECORD
MRP PLANNING COMPANY - SRTUCTURAL ENGINEERS
130 CENTENNIAL WAY, SUITE C
TUSTIN, CA 92780
CONTACT: MIKE PAAR
PHONE: 714.923.8946
EMAIL: mike@mrpplanningco.com

MECHANICAL, PLUMBING ELECTRICAL ENGINEER OF RECORD
120 DEGREEZ MEP ENGINEERING
600 B STREET, SUITE 300
SAN DIEGO, CA 92101
CONTACT: AMIR AMIRI
PHONE: 714.923.8946
EMAIL: amir.amiri@120degreez.com

LANDSCAPE ARCHITECT OF RECORD
CONCEPTUAL DESIGN & PLANNING COMPANY (CDPC)
3195-C AIRPORT LOOP DR, STUDIO ONE
COSTA MESA, CA 93626
CONTACT: JIM BALDOVIN
PHONE: 949.399.0870
EMAIL: jbaldovin@cdpcinc.com

CIVIL ENGINEER OF RECORD (BY OWNER)
RICK ENGINEERING
1770 IOWA AVE, SUITE 100
RIVERSIDE, CA 92507
CONTACT: KRISTEN WERKSMAN
PHONE: 951.782.0707
EMAIL: kwerksman@rickengineering.com

CONTACT LIST-TENANT

PANERA BREAD DESIGN MANAGER:
XXXXX
3630 S. GEYER ROAD, SUITE 100
ST. LOUIS, MO 63127
PHONE: XXX.XXX.XXXX
@PANERABREAD.COM

PANERA BREAD CONSTRUCTION MANAGER:
XXXXX
3630 S. GEYER ROAD, SUITE 100
ST. LOUIS, MO 63127
PHONE: XXX.XXX.XXXX
@PANERABREAD.COM

PANERA BREAD DEVELOPMENT MANAGER:
XXXXX
3630 S. GEYER ROAD, SUITE 100
ST. LOUIS, MO 63127
PHONE: XXX.XXX.XXXX
@PANERABREAD.COM

PROTOTYPE INFORMATION:

THIS SET OF DOCUMENTS INCORPORATES ALL REVISIONS THROUGH PROTOTYPE UPDATE #2022-Q2.V1

LANDLORD APPROVAL:

NAME

SIGNATURE DATE

1/29/2024 12:03:52 PM

PB 2022.Q2.V1

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

Bakery-Cafe #:
6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION
Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

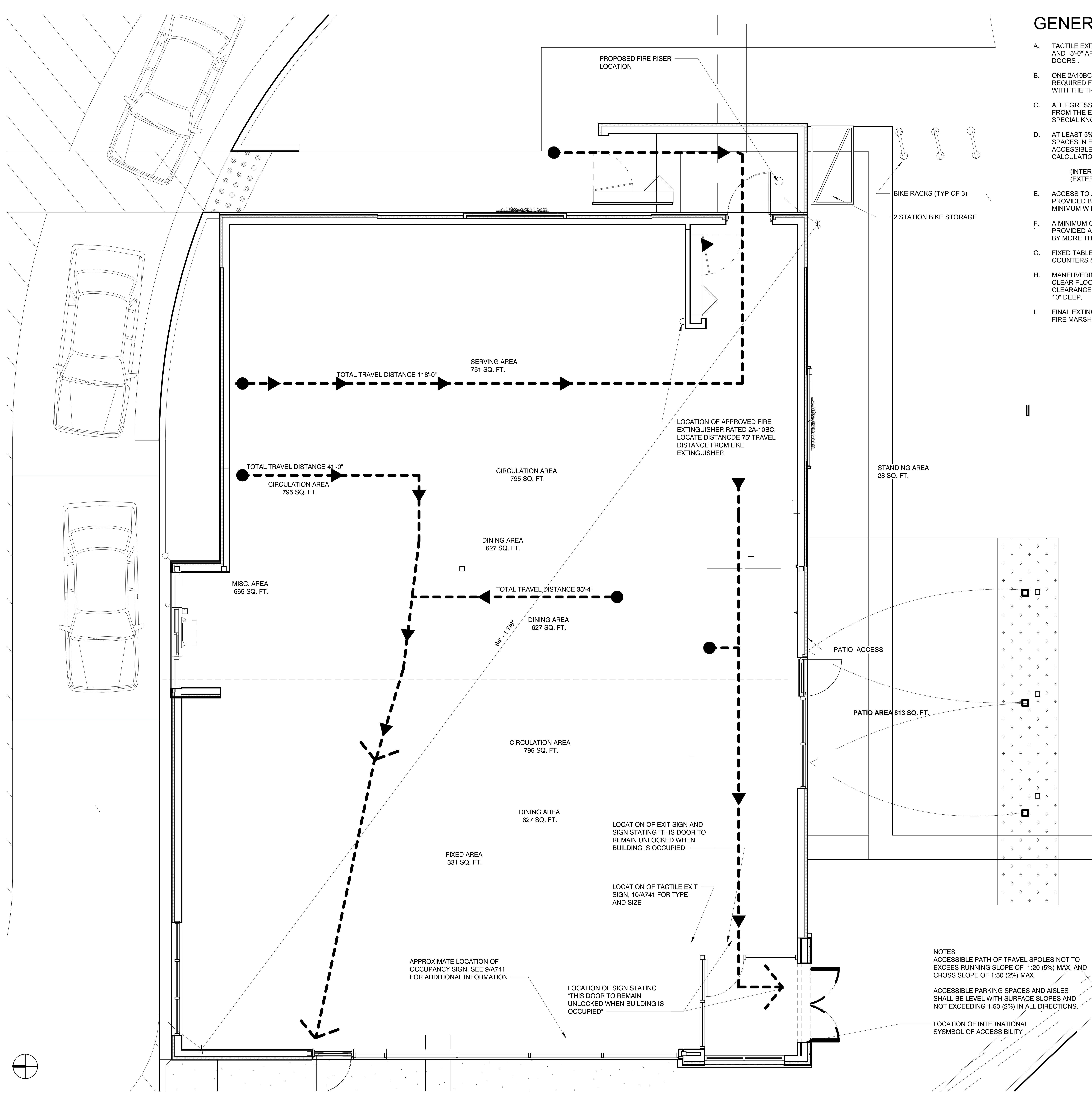
Consultant Copyright Placeholder

No.	Description	Date

ENTITLEMENTS COVER SHEET

Project Number: 6360
Sheet Number: **G000**
Drawn By: Author
Issue Date: **08/29/2023**

DPM:	DM:	CPM:
DPM	DM	CPM



24 LIFE SAFETY PLAN
1/4" = 1'-0"

1/29/2024 11:50:02 AM

PB 2023.Q2.V1

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

GENERAL NOTES

A. TACTILE EXIT SIGNS TO BE MOUNTED BETWEEN 4'-6" AND 5'-0" AFF ON HINGE SIDE OF ALL EXTERIOR EXIT DOORS .

B. ONE 2A10BC DRY CHEMICAL FIRE EXTINGUISHER IS REQUIRED FOR EACH 3,000 SQ. FT. OF FLOOR AREA WITH THE TRAVEL DISTANCE NOT TO EXCEED 75 FEET.

C. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.

D. AT LEAST 5%, BUT NO LESS THAN ONE OF THE SEATING SPACES IN EACH FUNCTIONAL AREA SHALL BE ACCESSIBLE.
CALCULATION FOR NUMBER OF ACCESSIBLE SEATS:

(INTERIOR SEATS) 100 x 5% = 5
(EXTERIOR SEATS) 26 x 5% = 2

E. ACCESS TO ACCESSIBLE SEATING SPACES SHALL BE PROVIDED BY MAIN AISLES (ACCESSIBLE ROUTE) A MINIMUM WIDTH OF 36".

F. A MINIMUM OF 30" BY 48" CLEAR FLOOR SPACE SHALL BE PROVIDED AND SHALL NOT OVERLAP THE KNEE SPACE BY MORE THAN 14".

G. FIXED TABLES AND COUNTERS: HEIGHT OF TABLES NAD COUNTERS SHALL BE 28" MINIMUM AND 34" MAXIMUM.

H. MANEUVERING CLEARANCE: A MINIMUM OF 36" x 48" CLEAR FLOOR SPACE SHALL BE PROVIDED. KNEE CLEARANCE SHALL BE AT LEAST 27" HIGH, 30" WIDE AND 10" DEEP.

I. FINAL EXTINGUISHER LOCATIONS TO BE APPROVED BY FIRE MARSHAL.

APPLICABLE BUILDING CODES

BUILDING CODE	CALIFORNIA BUILDING CODE - CBC 2022
PLUMBING CODE	CALIFORNIA PLUMBING CODE - CPC 2022
ELECTRICAL CODE	CALIFORNIA ELECTRICAL CODE - CEC 2022
MECHANICAL CODE	CALIFORNIA MECHANICAL CODE CMC 2022
ENERGY CODE	CALIFORNIA ENERGY CODE - 2022
FIRE CODE	CALIFORNIA FIRE CODE, TITLE 24, IFC 2018
ACCESSIBILITY CODE	CALIFORNIA CODE OF REGULATIONS CCR TITLE 24

BUILDING INFORMATION

CONSTRUCTION TYPE	TYPE V - B
SPRINKLERED	100% SPRINKLERED

LEGEND

CIRCULATION AREA AREA: 736 SQ. FT.	PATIO AREA AREA: 630 SQ.FT.
FIXED SEATING AREA: 303 SQ. FT. 112'-4" LF	SERVING AREA: AREA: 725 SQ. FT.
DINING AREA & CAFE AREA: 878 SQ. FT.	STANDING ROOM: AREA 25 SQ. FT.
KITCHEN AREA AREA: 684 SQ. FT.	MISC. AREA (OVENS, COOLERS, FREEZER): AREA: 704 SQ. FT.

INTERIOR AREA (NET): 4,055 SQ. FT
PATIO AREA: 630 SQ FT

ALLOWABLE AREA

PER 2012 IBC

PRIMARY OCCUPANCY	A-2 | ASSEMBLY
MAXIMUM ALLOWABLE BUILDING AREA	6000 SF, ACTUAL 4,510
TRAVEL DISTANCE (PER 2012 IBC TABLE 1016.2)	250 FT ALLOWED (SPRINKLERED) 112 FT ACTUAL

OCCUPANT LOAD

OCCUPANT LOAD COUNT TABLE PER 2012 IBC TABLE 1004.1.2

	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	AREA (SQFT)	OCCUP-ANTS
DINING AREA	UNCONCENTRATED	15	878	59
CIRCULATION AREA	UNCONCENTRATED	15	738	49
KITCHEN	KITCHEN: COMMERCIAL	200	684	3
SERVICE AREA	KITCHEN: COMMERCIAL	200	723	4
STANDING AREA	STANDING AREA	5	25	5
FIXED SEATING				

BOOTH LENGTHS	COUNT	TOTAL LINEAL LENGTH	LINEAL IN. PER OCC.	TOTAL LINEAL INCHES/ LINEAL IN. PER OCC.
30"	14	30'-0"	24	15
48"	7	24'-0"	24	14
68"	1	5'-8"	24	3
93"	1	7'-9"	24	4
165"	1	13'-9"	24	7
170"	1	14'-2"	24	7
204"	1	17'-0"	24	9
EXTERIOR SEATING				
PATIO			SEAT COUNT	28
TOTAL INTERIOR OCCUPANTS:				**179**
TOTAL OCCUPANTS (INCLUDING PATIO):				**207**

EXIT REQUIRMENTS

PER 2012 IBC SECTION 1015.2.1

LONGEST INTERIOR DIAGONAL DIMENSION	94'-4"
MIN. DISTANCE BETWEEN DOORWAYS (SPRINKLED)	94'-4"/3 = 31'-5"
ACTUAL DISTANCE BETWEEN CLOSEST DOORWAYS	**48'-10"**

ALLOWABLE EGRESS WIDTH

PER 2012 IBC SECTION 1005.3.2

	OCCUPANTS	FACTOR (IN.)	(IN.)
INTERIOR W/ SPRINKLER SYSTEM	179	0.15	26.85
EXTERIOR PATIO SPACE W/OUT SPRINKLER	28	0.20	5.60
MINIMUM EGRESS OPENING WIDTH REQUIRED			32.45
MINIMUM DOOR SIZE (PER 1008.1.1) [CLEAR OPENING]			32.00
	MAIN EXIT (IN.)	SECONDARY (IN.)	TOTAL (IN.)
ACTUAL EGRESS OPENING WIDTH PROVIDED	68	33.625	**101.625**

PLUMBING CALCULATIONS

PER 2013 KENTUCKY PLUMBING CODE

BUILDING OCCUPANCY (TOTAL)	207				
			TOTAL MEN/WOMEN		**104.0**
	WATER CLOSETS		LAVATORIES		OTHER
BUILDING ASSEMBLY	MALE	FEMALE	MALE	FEMALE	
A-2	1:100	1:100	1:200	1:200	1 SERVICE SINK
REQUIRED	2	2	1	1	1
PROVIDED	**1+1 URNIAL**	**2**	**1**	**1**	**1**

DENSITY CALCULATIONS - ALUC

TOTAL OCCUPANTS (INCLUDING PATIO):	**207**
PARKING LOT MAXIMUM LOAD 36 x 1.5	**54**
TOTAL LAND USE OCCUPANTS	**261**
LAND ACREAGE	**1.374**
COUNTY COMPATABILITY DENSITY OCCUPANCY PER ACRE	**190**

1 LIFE SAFETY - CODE INFO

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

AO Architecture. Design. Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

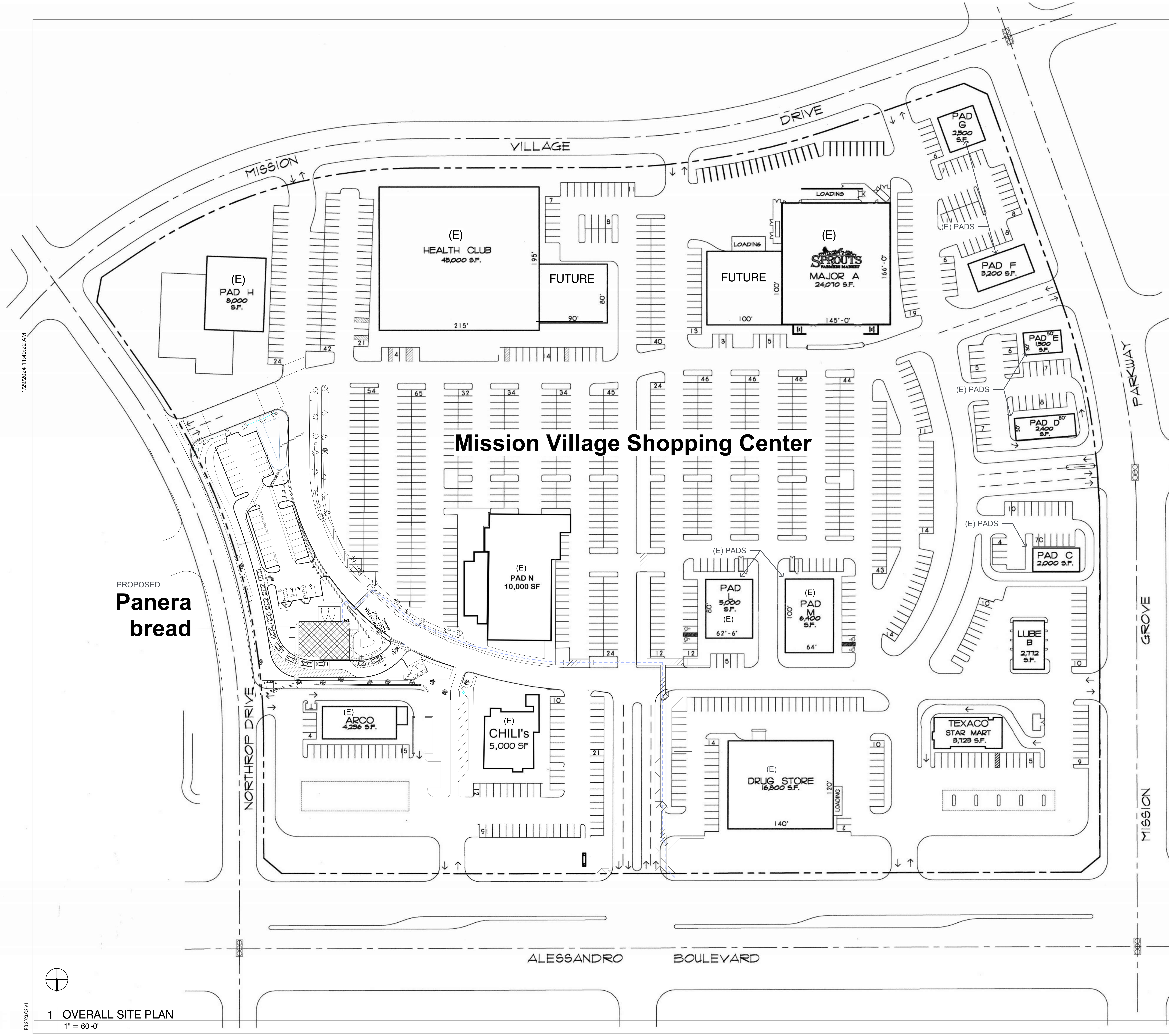
Consultant Copyright Placeholder

No.	Description	Date

LIFE SAFETY PLAN

Project Number: 6360
Drawn By: Author
Issue Date: **08/29/2023**
Sheet Number: **G131**

DPM:	DM:	CPM:
DPM	DM	CPM



1/29/2024 11:49:22 AM

1 OVERALL SITE PLAN
1" = 60'-0"

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant Copyright Placeholder

No.	Description	Date

OVERALL SITE PLAN

Project Number: 6360
Sheet Number: A001
Drawn By: Author
Issue Date: 08/29/2023
DPM: DPM
DM: DM
CPM: CPM

1 SITE PLAN
1" = 20'-0"

PARKING ANALYSIS

BUIDING AREA	CALCULATION	STALLS PROVIDED
3,500 SF	1/100 SF = 35 STALLS	35 STALLS
DISABLED ACCESS	1/25 2 STALLS	2 STALLS
FUTURE EV	CAL GREEN	2 STALLS
	TOTAL PARKING	39 STALLS

DRIVE THRU STACKING:
DRIVE THRU ENTRY TO MENU BOARD = 6 CARS
MENU BOARD TO PICK-UP WINDOW = 6 CARS
TOTAL STACKING =12 CARS

DRIVE THRU LENGTH: 48' + 57' + 160' = 265' > 180'

GENERAL NOTES:

A. SITE PLAN PROVIDED FOR REFERENCE, REFER TO CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION.
B. LANDSCAPE HAS BEEN INTENTIONALLY EXCLUDED FROM THIS SHEET, SEE CIVIL DRAWINGS FOR ALL LANDSCAPE INFORMATION AND REQUIREMENTS.
C. ALL WORK SHALL COMPLY WITH THE REGULATION AND ORDINANCES OF RICHMOND, KY AND ANY OTHER APPLICABLE CODES.
D. THE GENERAL CONTRACTOR (G.C.) SHALL CONTACT LOCAL UTILITIES TO VERIFY ALL SIZES, LOCATIONS, AND CONNECTION POINTS FOR ALL UTILITIES AFFECTED.
E. ANY CONNECTIONS, DISCONNECTIONS, AND INSTALLATIONS TO LOCAL UTILITIES SHALL BE MADE IN ACCORDANCE WITH APPLICABLE CODES.
F. EXTERIOR BUILDING SIGN FURNISHED AND INSTALLED BY OWNER'S SIGN VENDOR, G.C. TO PROVIDE POWER.
G. G.C. TO VERIFY EXISTING SITE CONDITIONS PRIOR TO BID. ALSO PROVIDE CONTINUOUS CURB CUTS AND SMOOTH PAVEMENT & CURB TRANSITIONS BETWEEN NEW AND EXISTING CONDITIONS AS REQUIRED FOR SITE WORK AS REQUIRED.
H. G.C. SHALL PROVIDE AND INSTALL ELECTRICAL CONDUIT AND STRUCTURAL FOOTINGS FOR ALL NEW SITE DRIVE-THRU SIGNAGE (TYPICAL).
I. REFER TO CIVIL DOCUMENTS FOR GENERAL SITE LIGHTING.
J. OPTIMUM FOOT-CANDLE LEVELS:
   a. GUEST ENTRIES: 15-25
   b. SERVICE DOOR: 5
   c. GENERAL SITE LIGHTING: 1-3
   d. PATIO: 1-3
   e. DRIVE THRU/MENU BOARD: 10-15
   f. TRASH ENCLOSURE: 5

KEYED NOTES

0.01 PROPOSED PANERA CAFE SPACE.
0.02 DRIVE THRU LANE, INSTALLED BY PANERA GC. REFER TO CIVIL DRAWINGS.
0.03 ASPHALT PAVING; REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
0.04 LOCATE ELECTRICAL CABINETS AT EXTERIOR WALL OF MAIN BUILDING THIS LOCATION. PAINT TO MATCH WALL
0.06 PRIMARY TENANT BUILDING ENTRANCE.
0.07 REAR SERVICE DOOR LOCATION; REFER TO SHEET A101 AND A601 FOR ADDITIONAL INFORMATION.
0.08 SECONDARY ENTRANCE, REFER TO SHEET A101 FOR FURTHER INFORMATION.
0.10 DRIVE-THRU CONCRETE PAD, PROVIDED BY PANERA GC; REFER TO CIVIL DRAWINGS AND SHEET A021 FOR ADDITIONAL INFORMATION.
0.13 ACCESSIBLE RAMP, PROVIDED BY PANERA GC; REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS.
0.14 PROPOSED LANDSCAPE AREA; REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION TO UTILIZE LOCAL FLORA.
0.15 PROPOSED FIRE DEPARTMENT CONNECTION LOCATED IN VAULT, REFER TO CIVIL FOR LOCATION, INSTALLED BY PANERA GC.
0.16 4" CONCRETE PIPE BOLLARD, REFER TO 3/A002, INSTALLED BY PANERA GC. BOLLARDS AT DRIVE LANE TO BE PAINTED SAFET YELLOW WITH REFLECTIVE STRIPE.
0.17 6" CONCRETE PIPE BOLLARD, REFER TO 7/A002, INSTALLED BY PANERA GC.
0.18 NEW DRIVE THRU SIGNAGE; SEE SHEET A023 FOR FURTHER INFORMATION. ALSO SEE SHOP DRAWINGS.
0.21 PROPOSED ACCESSIBLE PARKING STALL; REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
0.22 BOLLARD MOUNTED ACCESSIBLE SIGNAGE, INSTALLED BY PANERA GC; REFER TO 2/A002 FOR FURTHER REFERENCE.
0.23 PROPOSED PAINTED STRIPED CROSS WALK; REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
0.24 PROPOSED RAPID PICK-UP PARKING LOCATIONS AND BOLLARD MOUNTED SIGNAGE. REFER TO 22/A040 & VENDORS SHOP DRAWINGS FOR SIGNAGE INFORMATION.
0.25 PROPOSED CONCRETE WHEEL STOPS; REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
0.26 PARKING STRIPING; REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
0.27 PROPOSED DIRECTIONAL PAVEMENT PAINTING; REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
0.32 PATIO STRING LIGHT WITH PREFABRICATED POSTS BY PANERA GC, REFER TO 9/A040.
0.39 PROPOSED DRIVE THRU / RPU PAVEMENT MARKING CENTERED IN LANE, INSTALLED BY PANERA GC, COORDINATE LOCATION WITH CPM FOR PLACEMENT.
0.44 FUTURE 6 STALL ELECTRIC VEHICLE CHARGING STATIONS (1 - ADA ACCESSIBLE), ROUGH-IN & DEDICATED CIRCUITS.
0.46 10" WIDE CURB ALONG DRIVE THRU WALL, REFER TO SECTION FOR FURTHER INFORMATION.
0.49 PANERA GC TO PROVIDE CONSTRUCTION BARRICADE BANNER SIGN DETAIL. REFER TO 9/A023 FOR DETAIL. VERIFY PLACEMENT ON SITE WITH PANERA CPM.
0.53 2 STALL ELECTRIC VEHICLE CHARGING STATION, CHARGEPOINT OR EQUAL.
0.54 PROPOSED LOCATION FOR DOMESTIC & IRRIGATION WATER METERS. REFER TO CIVIL.
0.55 PROPOSED ROCK GARDEN OVER RETENTION BASIN. REFER TO CIVIL & LANDSCAPING.
0.56 EXISTING DISABLED ACCESS PATH OF TRAVEL.
0.57 BIKE LOCKER,2 UNIT PROVIDED/IMSTALLED BY PANERA GC, DURA BIKE LOCKER DL2.
0.58 CUSTOM WOOD TRELLIS ON MASONRY PILASTERS.
0.60 FENCEWALL WOOD SLAT, HORIZONTAL IPE BOARD W WITH HSS 4" COLUMN WITH STEEL CAP, PAINT TIGER DRYLAC DARK ANODIZED 38-60090-SMOOTH.
0.61 FENCEWALL PILASTERS, STONE VENEER ELDORADO NANTUCKET W/ STOME CAP, CPI CP30, PEBBLE.
3.11 PRE-MANUFACTURED ALUMINUM CANOPY W/ TIE RODS WITH FINISHED UNDERSIDE. PROVIDED/INSTALLED BY PANERA G.C. | MANF: MANDEVILLE | COLOR: DARK GREEN, PMS 2411C, CANOPOY TO INCLUDE LIGHTING, INTERNAL DRAIN (TO TIE INTO STORM), CANOPY UNDERSIDE TO HAVE FINISH TO MATCH [SF2].

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

AO
Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

PROTOTYPE - NEW CONSTRUCTION

Panera BREAD

Consultant Copyright Placeholder

No.	Description	Date

ARCHITECTURAL SITE PLAN

Project Number: 6360
Drawn By: Author
Issue Date: 08/29/2023
DPM: DPM DM: DM CPM: CPM

Sheet Number: **A002**

2/13/2024 1:40:22 PM

PR 2023.02.V1

01 | SITE OVERALL VIEW

SCALE: NONE

02 | SITE SHOPPING CENTER VIEW

SCALE: NONE

03 | SITE DRIVE THRU / FENCEWALL VIEW

SCALE: NONE

04 | SITE TRASH ENCLOSURE & BUILDING VIEW

SCALE: NONE

2/13/2024 1:35:59 PM

PR 2023.02.V1

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

Consultant Copyright Placeholder

No.	Description	Date

SITE PERSPECTIVES

Project Number: 6360
Drawn By: Author
Issue Date: **08/29/2023**
Sheet Number: **A003**

DPM:	DM:	CPM:
DPM	DM	CPM

01 | BUILDING BIRDSEYE VIEW

SCALE: NONE

02 | BUILDING FRONT VIEW

SCALE: NONE

03 | BUILDING DRIVE THRU TRELLIS VIEW

SCALE: NONE

04 | BUILDING DRIVE THRU WINDOW VIEW

SCALE: NONE

05 | BUILDING PATIO VIEW

SCALE: NONE

2/13/2024 1:36:01 PM

PB 2023.Q2.V1

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

AO
Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
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Panera BREAD

Consultant Copyright Placeholder

No.	Description	Date

BUILDING PERSPECTIVES

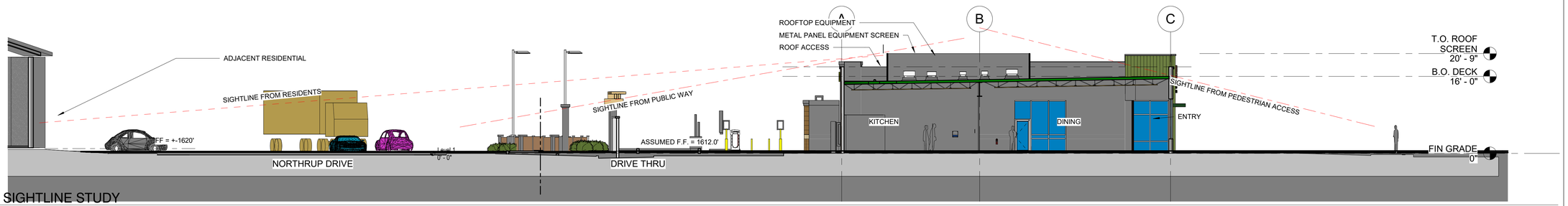
Project Number: 6360

Drawn By: Author

Issue Date: 08/29/2023

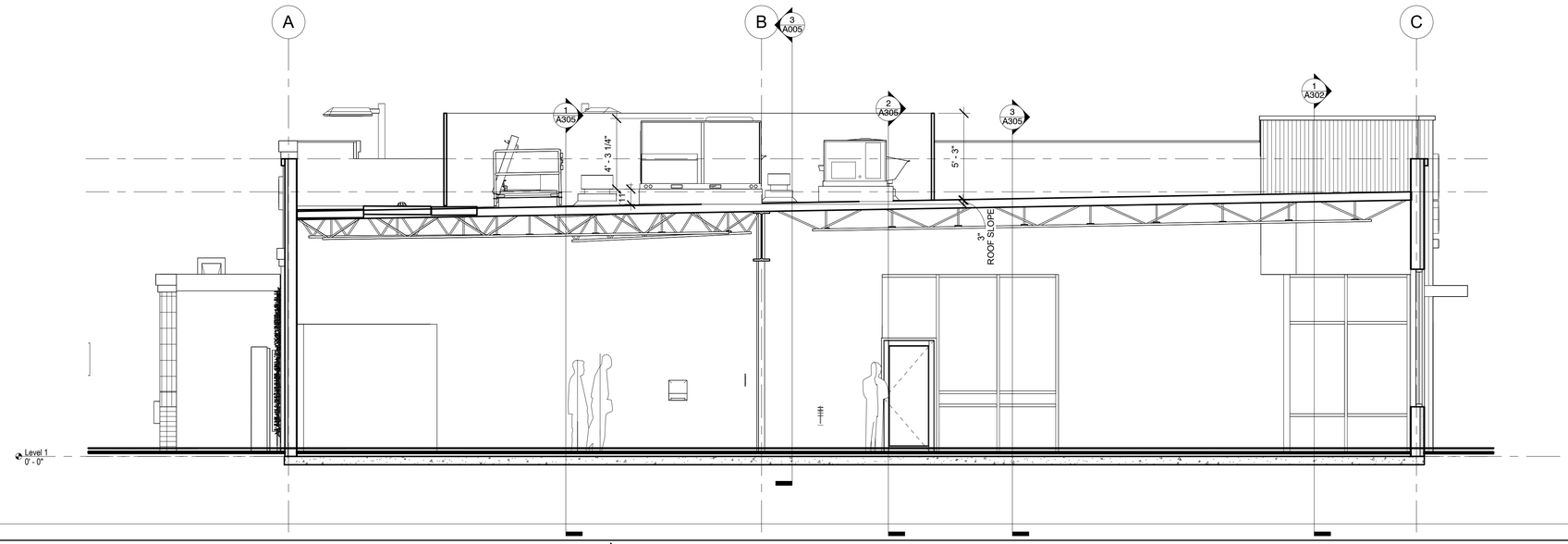
Sheet Number: **A004**

DPM: DPM | DM: DM | CPM: CPM



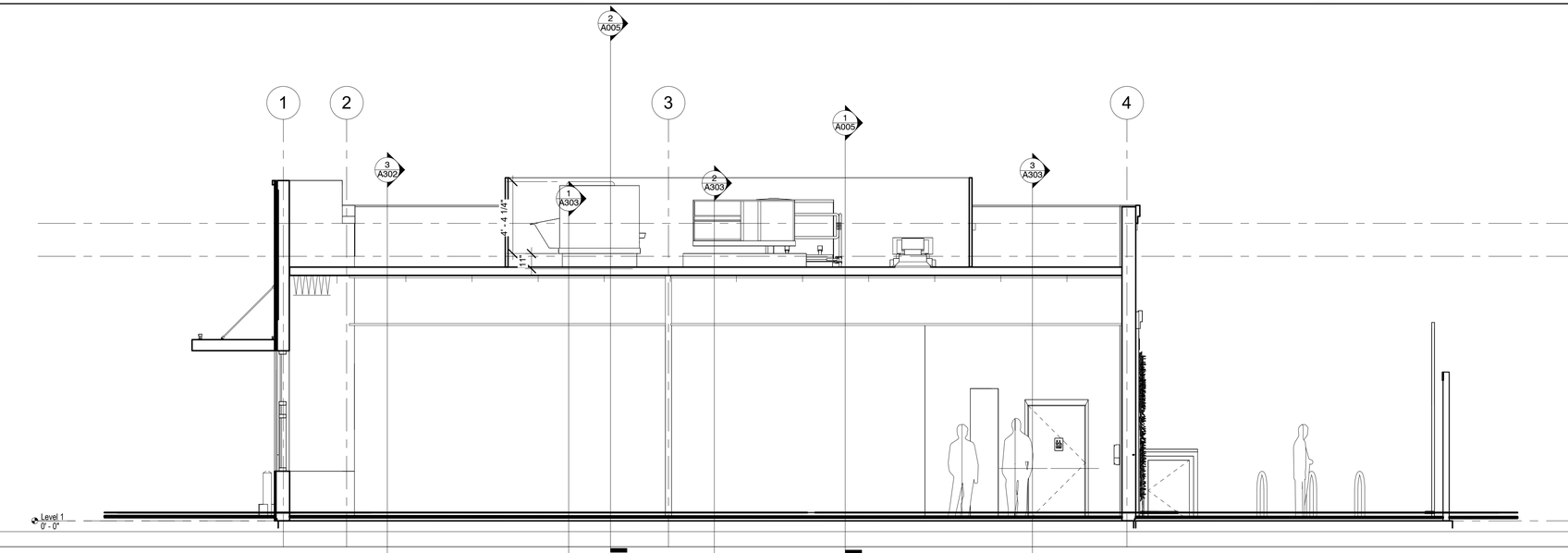
1 SIGHTLINE STUDY

3/32" = 1'-0"



2 SECTION AT DINING A004

1/4" = 1'-0"



3 SECTION AT KITCHEN A004

1/4" = 1'-0"

1/29/2024 11:49:33 AM

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

PR-2023-021V1

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

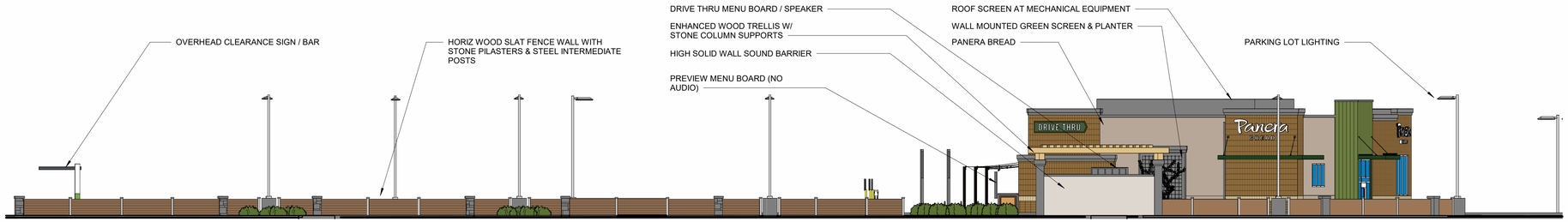
Consultant Copyright Placeholder

No.	Description	Date

BUILDING SECTIONS & SIGHTLINE STUDY

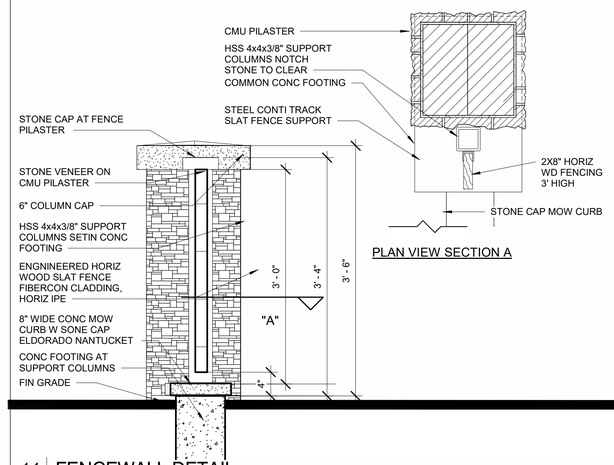
Project Number: 6360
Drawn By: Author
Issue Date: 08/29/2023
DPM: DPM DM: DM CPM: CPM

Sheet Number: **A005**



13 ELEVATION AT NORTHRUP DR REFER TO RENDERING & MATERIALS BOARD FOR TURE COLORS

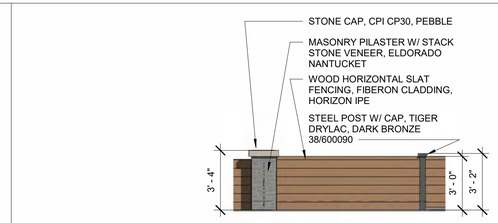
3/32" = 1'-0"



PLAN VIEW SECTION A

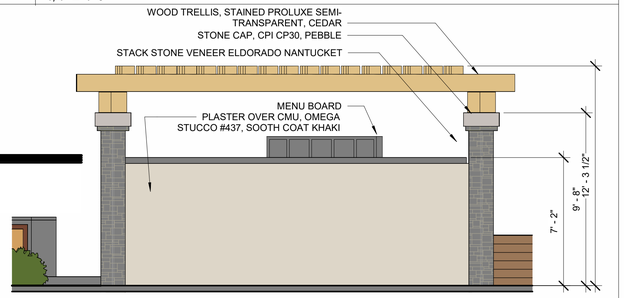
11 FENCEWALL DETAIL

1" = 1'-0"



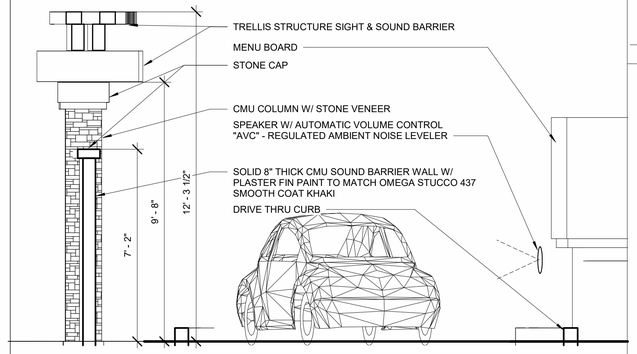
9 ELEV AT FENCEWALL REFER TO RENDERING & MATERIALS BOARD FOR TURE COLORS

1/4" = 1'-0"



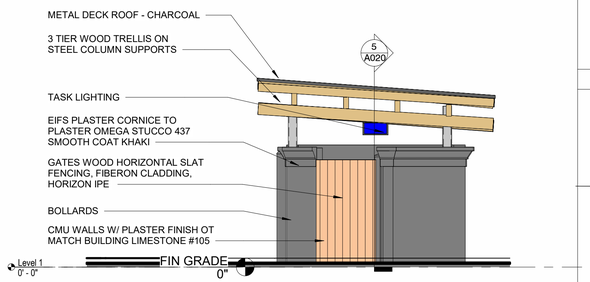
10 ELEVATION AT SOUND WALL REFER TO RENDERING & MATERIALS BOARD FOR TURE COLORS

1/4" = 1'-0"



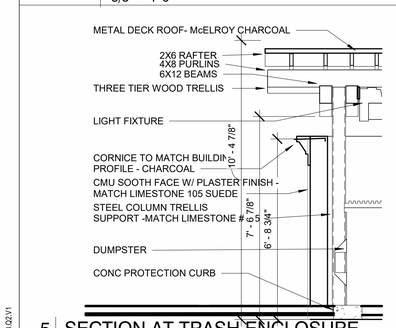
8 SECTION AT SOUND WALL/TRELLIS

3/8" = 1'-0"



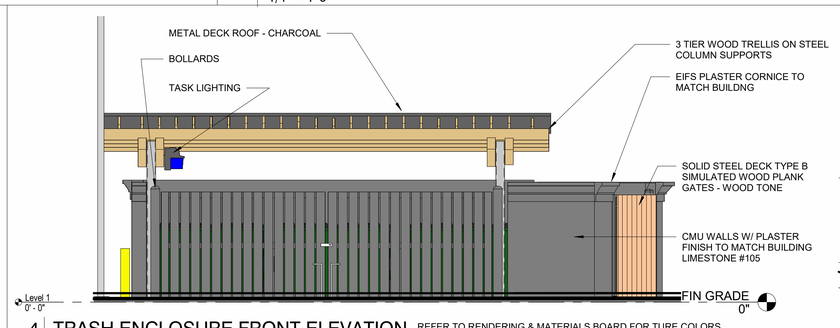
6 TRASH ENCLOSURE SIDE ELEVATION

1/4" = 1'-0"



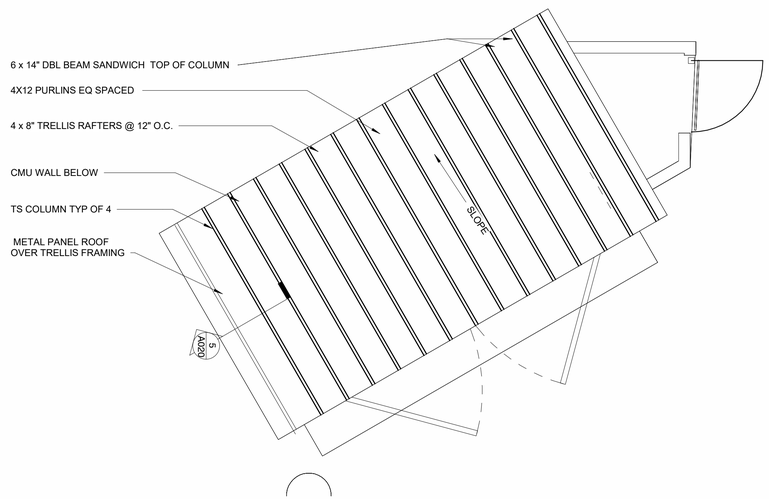
5 SECTION AT TRASH ENCLOSURE

3/8" = 1'-0"



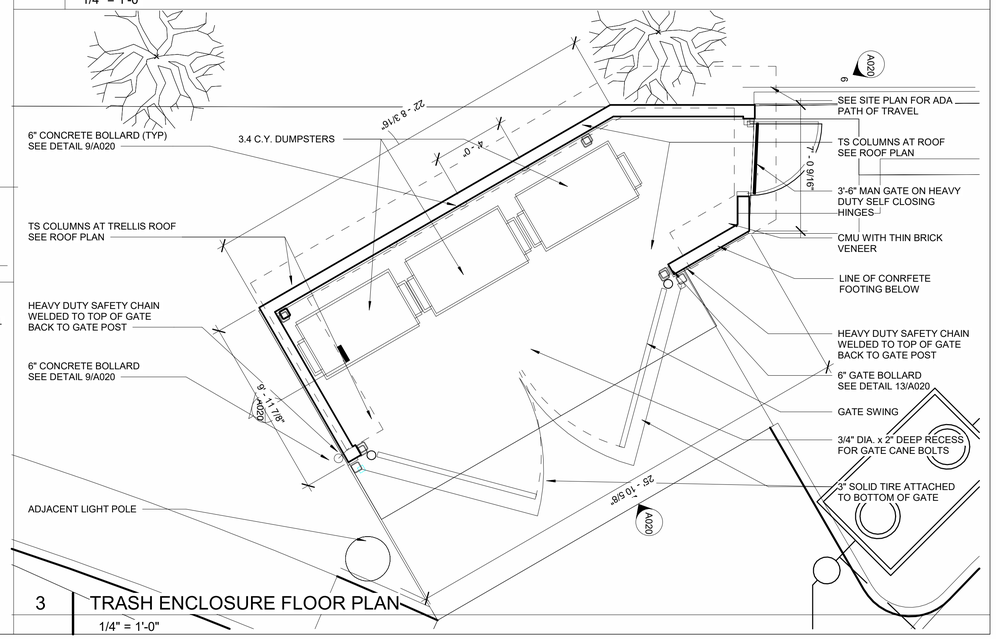
4 TRASH ENCLOSURE FRONT ELEVATION REFER TO RENDERING & MATERIALS BOARD FOR TURE COLORS

1/4" = 1'-0"



2 TRASH ENCLOSURE ROOF PLAN

1/4" = 1'-0"



3 TRASH ENCLOSURE FLOOR PLAN

1/4" = 1'-0"

PR 2023.02.V1

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

1/29/2024 11:49:40 AM

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

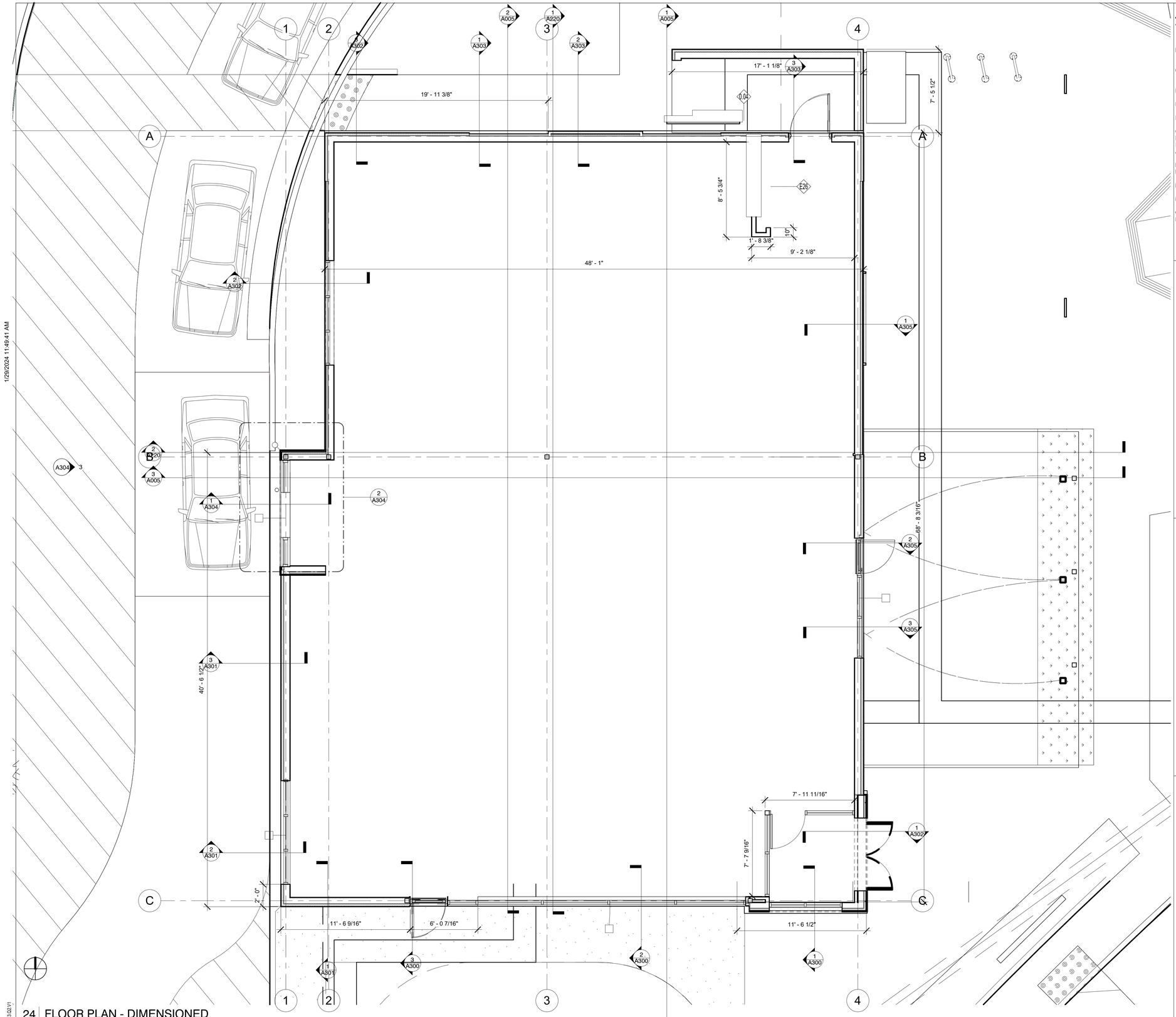
Consultant Copyright Placeholder

No.	Description	Date

SITE TRELLIS , TRASH ENCLOSURE & FENCEWALL

Project Number: 6360
Sheet Number: **A020**
Drawn By: Author
Issue Date: **08/29/2023**

DPM:	DM:	CPM:
DPM	DM	CPM



24 FLOOR PLAN - DIMENSIONED
1/4" = 1'-0"

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

1/29/2024 11:49:41 AM

PR 2023.02.V1

GENERAL NOTES:

A. PROVIDE 2" AIR SPACE AT SIDE(S) OF OVEN/PROOFER & COOLER/FREEZER (MIN. 3" AT BACK OF OVEN). VERIFY ALL DIMENSIONS & SPECS WITH EQUIPMENT MANUAL. NO FINISH ON WALLS BEHIND OVEN/PROOFER & COOLER/FREEZER (TAPE & PRIME ONLY).
B. PROVIDE 5/8" CEMENT BACKING BOARD ON ALL KITCHEN, RESTROOM, & OFFICE WALLS FROM FLOOR TO 2'-0" A.F.F. AT WORKROOM WALLS WITH TILE FINISH, PROVIDE CEMENT BOARD TO 6'-0" A.F.F.
C. PROVIDE 5/8" PLYWOOD BACKING BOARD ON KITCHEN & OFFICE WALLS (2'-0" AFF TO CEILING), SEE PARTITION SCHEDULE FOR WORKROOM WALLS W/ TILE FINISH.
D. G.C. SHALL SUPPLY AND INSTALL FIRE EXTINGUISHERS AS REQUIRED BY LOCAL CODES. LOCATION PER LOCAL CODES.
E. REFERENCE THE FOLLOWING SHEET: G021.1 ACCESSIBILITY GUIDELINES.
F. ALL DIMENSIONS NOTED ARE FROM FACE OF DRYWALL TO FACE OF DRYWALL.
G. ELECTRICAL EQUIPMENT BY G.C. SEE ELECTRICAL DRAWINGS.
H. PLUMBING EQUIPMENT BY G.C. SEE PLUMBING DRAWINGS.
I. SEE SHEET A603 FOR DOOR SCHEDULE.
J. ANY DOOR NOT LOCATED IN PLAN TO BE LOCATED 4" FROM ADJACENT WALL.
K. SEE FLOOR FINISH FOR CONTROL JOINTS.
L. EXTERIOR WALL THAT IS RECEIVING TILE TO HAVE CEMENT BACKER BOARD THE FULL HEIGHT OF THE TILE.
M. BLOCKING ON WALLS THAT DO NOT HAVE PLYWOOD SUBSTRATE. SEE ELEVATIONS.
N. EXTERIOR WALLS IN BOH TO HAVE CEMENT BD TO 2-0 THEN PLYWOOD ABOVE.
O. ANY REMAINING EXTERIOR WALLS TO HAVE GYP BD.
P. BLOCKING ON EXTERIOR WALLS THAT NEED IT. SEE ELEVATIONS

WALL LEGEND:

- NEW PARTITION, REFER TO PARTITION TYPES ON SHEET A110
- COOLER/FREEZER WALL
- NEW PARTITION, REFER TO PARTITION TYPES ON SHEET A110
- SOFFIT ABOVE, REFER TO REFLECTED CEILING PLAN ON SHEET A130 FOR HEIGHT

SYMBOLS LEGEND:

- EXISTING DOOR TO REMAIN AND TAG
- 101 — NEW DOOR AND TAG. REFER TO SHEET A603.
- X — KEYED NOTE
- 1t — WINDOW/ STOREFRONT NUMBER SYMBOL. REFER TO SHEET A611
- 1i — WALL PARTITION TYPE. REFER TO PARTITION TYPES ON SHEET A110

KEYED NOTES

0.04 LOCATE ELECTRICAL CABINETS AT EXTERIOR WALL OF MAIN BUILDING THIS LOCATION. PAINT TO MATCH WALL

E26 SERVICE ENTRANCE EQUIPMENT (CT CABINET, MAIN DISCONNECT SWITCH AND ELECTRIC METER) LOCATIONS. 800 AMP, 208/120V, 3 PHASE, 4 WIRE ELECTRICAL SERVICE. DESIGN IS BASED ON SQUARE D, NEMA 3R RATED FUSIBLE SERVICE-ENTRANCE RATED DISCONNECT SWITCH & CT/METER CABINET. CONTRACTOR USE OF EQUIVALENT EQUIPMENT BY ANY OTHER MANUFACTURER SHALL OBLIGATE THE CONTRACTOR TO CONFIRM ALL PHYSICAL AND ELECTRICAL REQUIREMENTS FOR THAT EQUIPMENT ARE MET. ALL WORK TO BE PER UTILITY AND LOCAL GOVERNMENTAL AUTHORITY REQUIREMENTS.

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

AO Architecture. Design. Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

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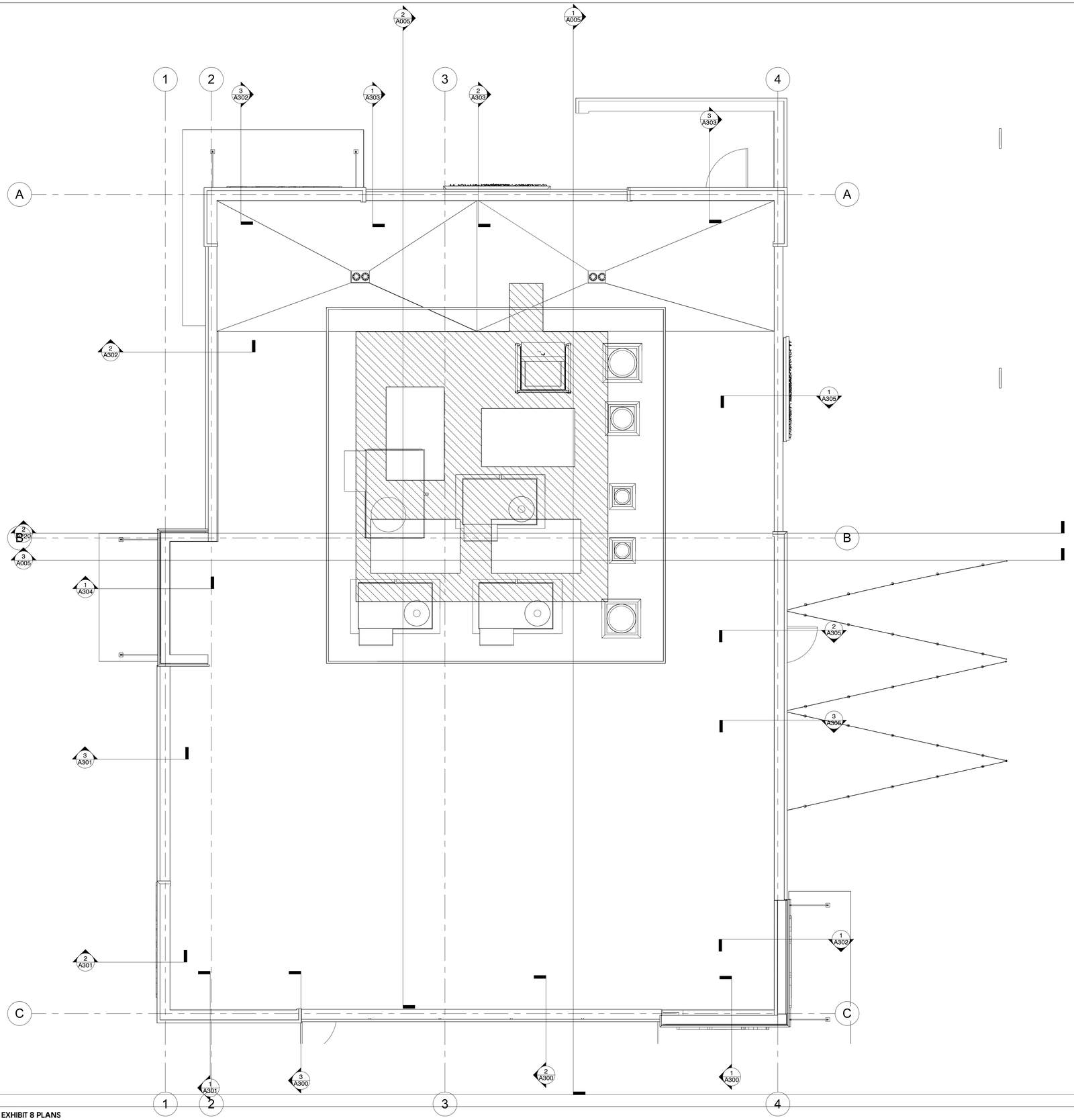
No.	Description	Date

FLOOR PLAN - DIMENSIONED

Project Number: 6360
Sheet Number: **A101**
Drawn By: Author
Issue Date: **08/29/2023**
DPM: DPM | DM: DM | CPM: CPM



1 ROOF PLAN
1/4" = 1'-0"

GENERAL NOTES:

A. GC SHALL COORDINATE THE ANCHORING AND INSTALLATION OF THE ROOF TOP CONDENSER UNITS WITH THE FOOD SERVICE EQUIPMENT.
B. REFER TO STRUCTURAL AND MEP DRAWINGS FOR RTU/CURB ANCHORING AND INSTALLATION.

KEYED NOTES

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

AO
Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

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No.	Description	Date

ROOF PLAN

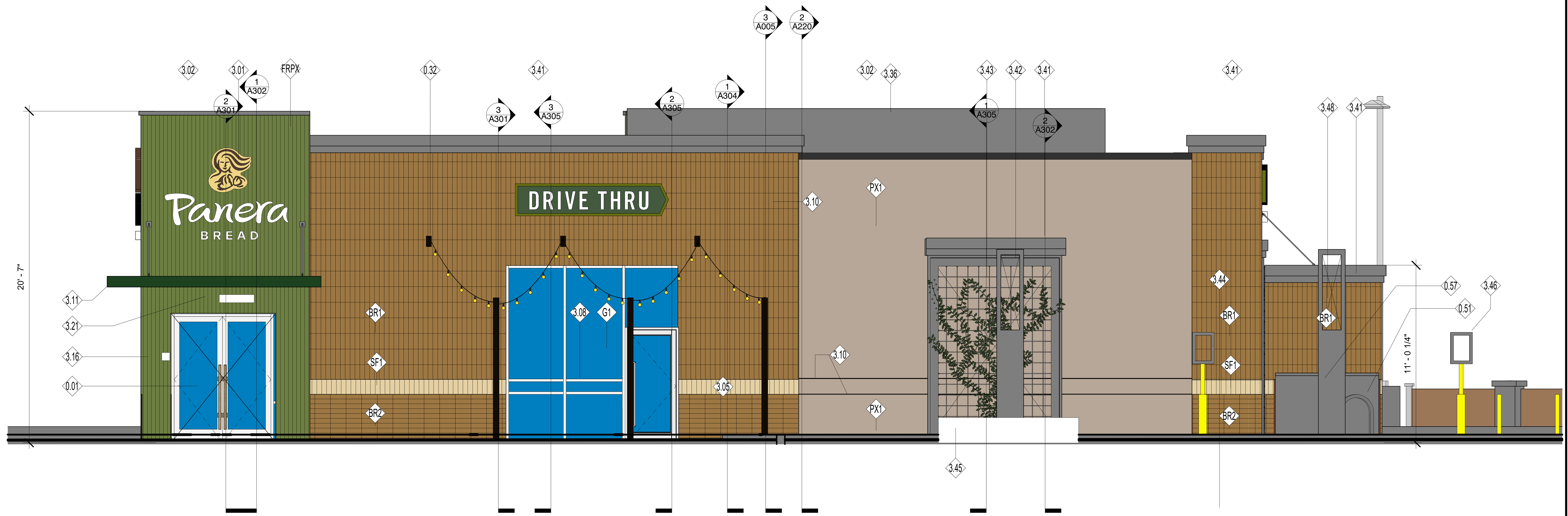
Project Number: 6360
Drawn By: Author
Issue Date: 08/29/2023
DPM: DPM DM: DM CPM: CPM

Sheet Number: **A140**

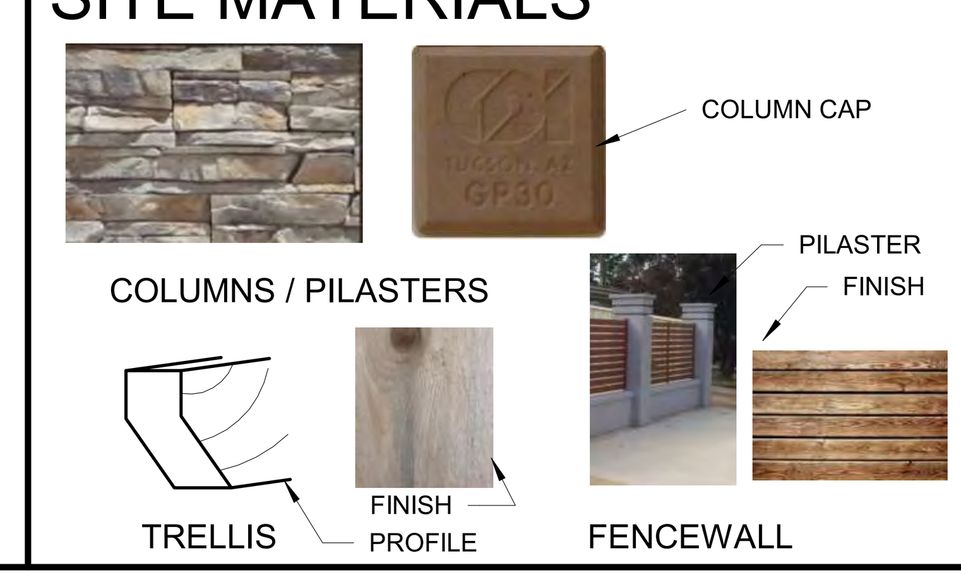
1/29/2024 11:49:45 AM

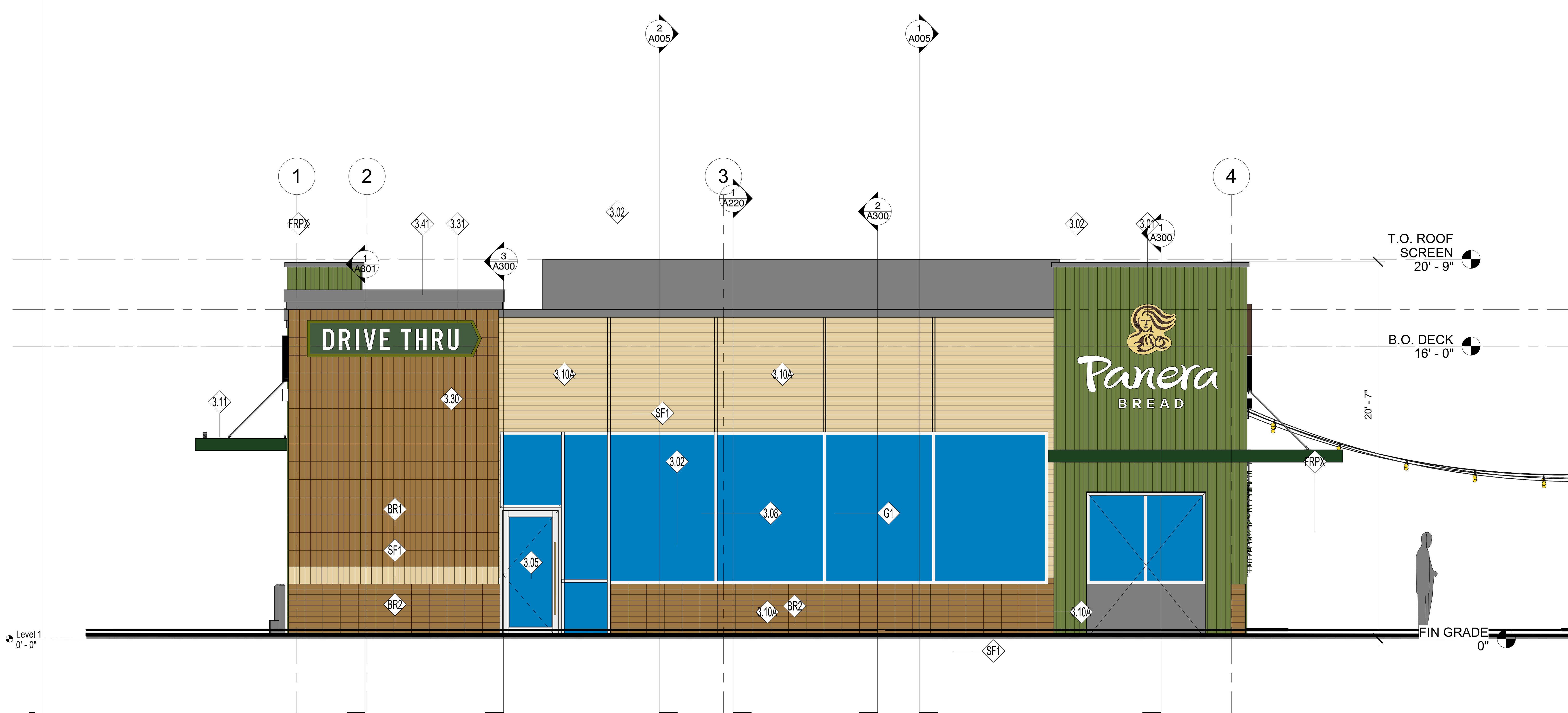
PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

PR-2023-021V1



2 SOUTH ELEVATION REFER TO RENDERINGS AND MATERIALS BOARD FOR TRUE COLOR PALATE
1/4" = 1'-0"





1 WEST ELEVATION REFER TO RENDERINGS AND MATERIALS BOARD FOR TRUE COLOR PALATE
1/4" = 1'-0"

KEYED NOTES

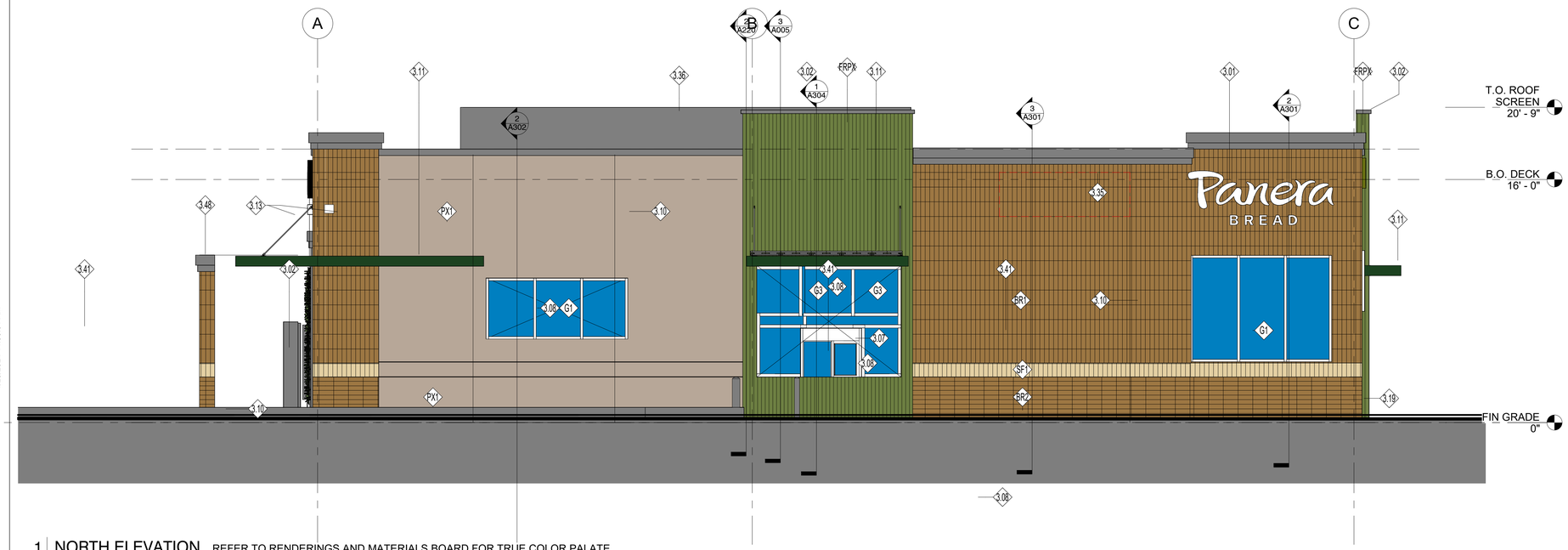
0.01 PROPOSED PANERA CAFE SPACE.
0.32 PATIO STRING LIGHT WITH PREFABRICATED POSTS BY PANERA GC, REFER TO 9/A040.
0.51 BICYCLE RACKS PROVIDED/INSTALLED BY PANERA GC | BASE SPEC: LANDSCAPEFORMS - FLO BIKE RACK #4 SATIN ELECTROPOLISH. ALTERNATE: GROUND CONTROL SYSTEMS - HR100 HOOP RUNNER.
0.57 BIKE LOCKER,2 UNIT PROVIDED/IMSTALLED BY PANERA GC, DURA BIKE LOCKER DL2.
3.01 LOCATION OF INTERNALLY ILLUMINATED CLIP LETTERS AND/OR TRADEMARK SYMBOL; PROVIDED AND INSTALLED BY TENANT SIGN VENDOR UNDER SEPARATE PERMIT; G.C. TO PROVIDE BLOCKING IN WALL FOR SIGN AND PROVIDE ACCESS PANEL ON BACKSIDE OF PARAPET FOR ACCESS AS REQUIRED. (UNDER SEPARATE SIGNAGE PERMIT)
3.02 PRE-FINISHED METAL 2- PIECE SNAP-ON COMPRESSION COPING BY DUROLAST OR SIMILAR | COLOR: CHARCOAL TO MATCH RAL 7043
3.05 SECONDARY ENTRANCE/EXIT | REFER TO A601 & A602 FOR ADDITIONAL INFORMATION.
3.08 ALUMINUM STOREFRONT SYSTEM WITH 1" INSULATED GLAZING BY PANERA GC. REFER TO SHEET A602 FOR FURTHER INFORMATION.
3.10 CONTROL JOINT WHERE INDICATED. REFER TO DETAILS FOR FURTHER INFORMATION.
3.10A CONTROL JOINT / JOINER REVEAL COVER WITHIN ALUM CLADDING SYSTEM PER MFG RECOMMENDATIONS. JOINER PIECE TO ALIGN WITH MULLION BELOW AS INDICATED.
3.11 PRE-MANUFACTURED ALUMINUM CANOPY W/ TIE RODS WITH FINISHED UNDERSIDE, PROVIDED/INSTALLED BY PANERA G.C. | MANF: MANDEVILLE | COLOR: DARK GREEN, PMS 2411C, CANOPOY TO INCLUDE LIGHTING, INTERNAL DRAIN (TO TIE INTO STORM), CANOPY UNDERSIDE TO HAVE FINISH TO MATCH [SF2].
3.16 FIRE DEPARTMENT ACCESS BOX | INSTALLED ADJACENT ENTRY DOOR. COORDINATE LOCATION WITH LOCAL FIRE DEPARTMENT.
3.21 BUILDING ADDRESS SIGN | VERIFY SIZE, LOCATION, AND STYLE WITH LOCAL FIRE DEPARTMENT
3.30 EXTERIOR WALL MOUNTED SPEAKER AT 10'-6" ABOVE GRADE, PROVIDED BY TENANT.
3.31 'DRIVE THRU' SIGN AS PART OF TENANT SIGNAGE BY SIGN VENDOR. GC TO PROVIDE BLOCKING IN WALL FOR SIGN AND PROVIDE ACCESS PANEL ON BACKSIDE OF PARAPET FOR ACCESS AS REQUIRED
3.36 PREMANUFACTURED RIBBED PANEL ROOF EQUIPMENT SCREENING, MFR: ROOFSCREEN MANUFACTURING, COLOR: TO MATCH P285 KENDAL CHARCOAL.
3.41 E.I.F.S. FOAM SHAPE CORNICE MECHANICALLY SUPPORTED & MOUNTED WITH EPOXY ADHESIVE.
3.42 ALUMINUM EXTRUDED T400 STOREFRONT 4 SIDED FRAME, PAINT CHARCOAL TO MATCH RAL 7043
3.43 E.I.F.S. 2X6 TRIM 4-SIDED FRAME PAINT CHARCOAL TO MATCH RAL 7043.
3.44 GREEN SCREEN STYLE MESH ANCHOR TO RECIEVER PLATE AND TRIM.
3.45 VINE / PLANTER / IRRIGATION. REFER TO LANDSCAPING.
3.46 ADA PARKING SIGNAGE REFER OT SITE DETAILS.
3.48 CMU SIGHT BARRIER WALL WITH BR1 BRICK VENEER. REFER OT STRUCT.
BR1 SEE FINISH SCHEDULE
BR2 SEE FINISH SCHEDULE
FRPX SEE FINISH SCHEDULE
G1 ALUMINUM STOREFRONT | MFR: KAWNEER TRIFAB VERRSAGLAZE 451T | FINISH: POWDER COAT | COLOR: ANODIZED ALUMINUM | 2" x 4 1/2" PROFILE | THERMAL BREAK| 1" CLEAR INSULATED GLAZING: PPG SOLARBAN 70 (OR APPROVED EQUAL) | REFER TO SHEET A602 FOR ADDITIONAL INFORMATION
PX1 EIFS SYSTEM | PRODUCT: DRYVIT OUTSULATION PLUS MD w/ MOISTURE DRAINAGE SYSTEM |TEXTURE: DRYVIT LYMESTONE | PAINTED COLOR: #105 SUEDE
SF1 SEE FINISH SCHEDULE

Bakery-Cafe #:
6360
SYSTEM: NEXT-GEN
Project Team:
Architecture. Design. Relationships.
Professional Seal:
Project Title:
PROTOTYPE - NEW CONSTRUCTION
Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508
Consultant Copyright Placeholder

No.	Description	Date

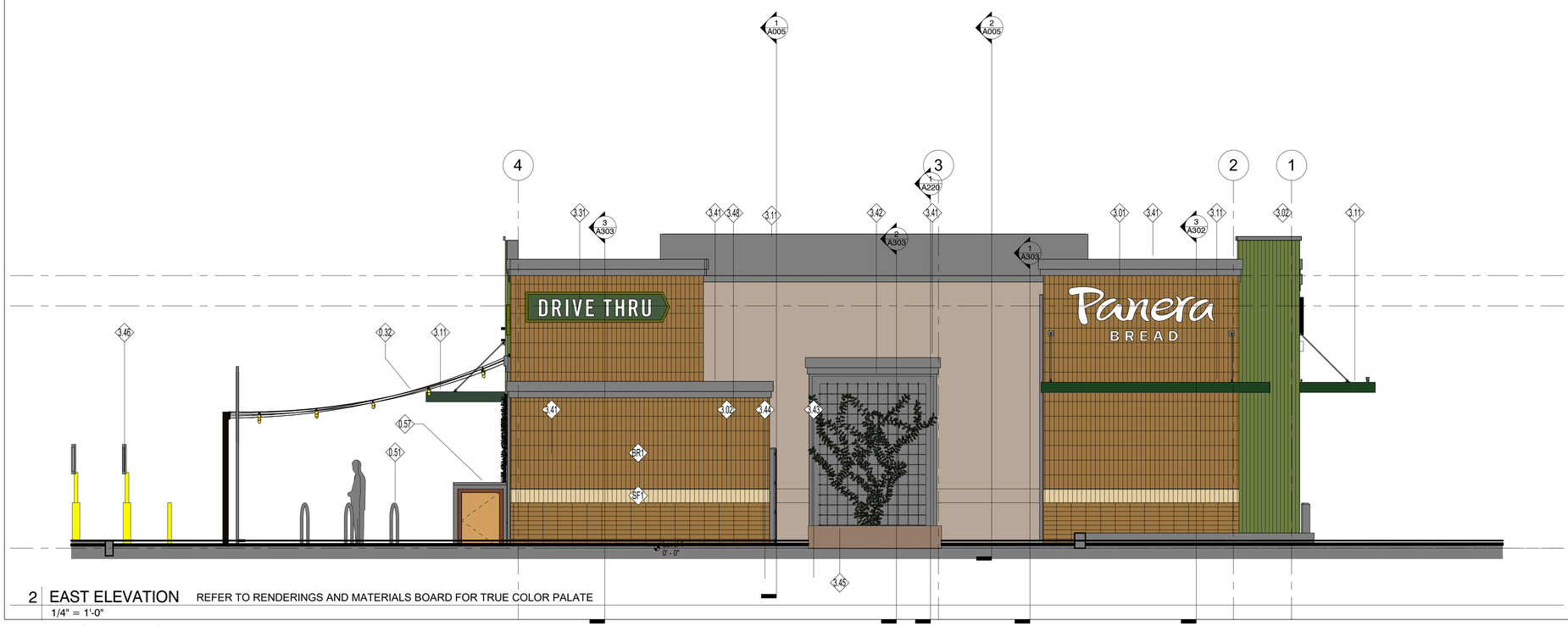
EXTERIOR ELEVATIONS
Project Number: 6360
Drawn By: Author
Issue Date: 08/29/2023
Sheet Number: **A200.**
DPM: DPM DM: DM CPM: CPM

1/29/2024 11:49:53 AM
PB 2023.Q2.V1



1 NORTH ELEVATION REFER TO RENDERINGS AND MATERIALS BOARD FOR TRUE COLOR PALATE

1/4" = 1'-0"



2 EAST ELEVATION REFER TO RENDERINGS AND MATERIALS BOARD FOR TRUE COLOR PALATE

1/4" = 1'-0"

GENERAL NOTES:

A. ALL GLAZING TO BE G1 UNLESS NOTED OTHERWISE. FOR STOREFRONT / WINDOW ELEVATIONS SEE SHEET A611.

KEYED NOTES

0.32 PATIO STRING LIGHT WITH PREFABRICATED POSTS BY PANERA GC, REFER TO 9/A040.

0.51 BICYCLE RACKS PROVIDED/INSTALLED BY PANERA GC | BASE SPEC: LANDSCAPEFORMS - FLO BIKE RACK #4 SATIN ELECTROPOLISH. ALTERNATE: GROUND CONTROL SYSTEMS - HR100 HOOP RUNNER.

0.57 BIKE LOCKER,2 UNIT PROVIDED/IMSTALLED BY PANERA GC, DURA BIKE LOCKER DL2.

3.01 LOCATION OF INTERNALLY ILLUMINATED CLIP LETTERS AND/OR TRADEMARK SYMBOL; PROVIDED AND INSTALLED BY TENANT SIGN VENDOR UNDER SEPARATE PERMIT; G.C. TO PROVIDE BLOCKING IN WALL FOR SIGN AND PROVIDE ACCESS PANEL ON BACKSIDE OF PARAPET FOR ACCESS AS REQUIRED. (UNDER SEPARATE SIGNAGE PERMIT)

3.02 PRE-FINISHED METAL 2- PIECE SNAP-ON COMPRESSION COPING BY DUROLAST OR SIMILAR | COLOR: CHARCOAL TO MATCH RAL 7043

3.07 DRIVE-THRU WINDOW | MFR: QUIKSERV | MODEL: FM42E | TO BE INSTALLED AS PART OF SHELL CONSTRUCTION IN STOREFRONT SURROUND. COLOR TO MATCH STOREFRONT.

3.08 ALUMINUM STOREFRONT SYSTEM WITH 1" INSULATED GLAZING BY PANERA GC. REFER TO SHEET A602 FOR FURTHER INFORMATION.

3.10 CONTROL JOINT WHERE INDICATED. REFER TO DETAILS FOR FURTHER INFORMATION.

3.11 PRE-MANUFACTURED ALUMINUM CANOPY W/ TIE RODS WITH FINISHED UNDERSIDE, PROVIDED/INSTALLED BY PANERA G.C. | MANF: MANDEVILLE | COLOR: DARK GREEN, PMS 2411C, CANOPY TO INCLUDE LIGHTING, INTERNAL DRAIN (TO TIE INTO STORM), CANOPY UNDERSIDE TO HAVE FINISH TO MATCH [SF2].

3.13 SECURITY CAMERA INSTALLED BY PANERA IT. GC TO PROVIDE ROUGH-IN LOCATION | COORDINATE ROUGH-IN LOCATION(S) AND HEIGHTS WITH PANERA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

3.19 HOSE BIBB | STAINLESS STEEL BOX. REFER TO PLUMBING DRAWINGS FOR LOCATION AND 18/A305 FOR ADDITIONAL INFORMATION.

3.31 'DRIVE THRU' SIGN AS PART OF TENANT SIGNAGE BY SIGN VENDOR. GC TO PROVIDE BLOCKING IN WALL FOR SIGN AND PROVIDE ACCESS PANEL ON BACKSIDE OF PARAPET FOR ACCESS AS REQUIRED

3.35 GC TO PROVIDE NEW CONSTRUCTION BANNER, REFER TO 4/A200. VERIFY PLACEMENT ON ELEVATION WITH PANERA CPM.

3.36 PREMANUFACTURED RIBBED PANEL ROOF EQUIPMENT SCREENING, MFR: ROOFSCREEN MANUFACTURING, COLOR: TO MATCH P285 KENDAL CHARCOAL.

3.41 E.I.F.S. FOAM SHAPE CORNICE MECHANICALLY SUPPORTED & MOUNTED WITH EPOXY ADHESIVE.

3.42 ALUMINUM EXTRUDED T400 STOREFRONT 4 SIDED FRAME, PAINT CHARCOAL TO MATCH RAL 7043

3.43 E.I.F.S. 2X6 TRIM 4-SIDED FRAME PAINT CHARCOAL TO MATCH RAL 7043.

3.44 GREEN SCREEN STYLE MESH ANCHOR TO RECIEVER PLATE AND TRIM.

3.45 VINE / PLANTER / IRRIGATION. REFER TO LANDSCAPING.

3.46 ADA PARKING SIGNAGE REFER OT SITE DETAILS.

3.48 CMU SIGHT BARRIER WALL WITH BR1 BRICK VENEER. REFER OT STRUCT.

BR1 SEE FINISH SCHEDULE

BR2 SEE FINISH SCHEDULE

FRPX SEE FINISH SCHEDULE

G1 ALUMINUM STOREFRONT | MFR: KAWNEER TRIFAB VERRSAGLAZE 451T | FINISH: POWDER COAT | COLOR: ANODIZED ALUMINUM | 2" x 4 1/2" PROFILE | THERMAL BREAK| 1" CLEAR INSULATED GLAZING: PPG SOLARBAN 70 (OR APPROVED EQUAL) | REFER TO SHEET A602 FOR ADDITIONAL INFORMATION

G3 ALUMINUM STOREFRONT | MFR: KAWNEER TRIFAB VERRSAGLAZE 451T | FINISH: POWDER COAT | COLOR: DARK GREEN, PMS 2411C| 2" x 4 1/2" PROFILE | THERMAL BREAK | 1" CLEAR INSULATED GLAZING: PPG SOLARBAN 70 (OR APPROVED EQUAL) | REFER TO SHEET A602 FOR ADDITIONAL INFORMATION

PX1 EIFS SYSTEM | PRODUCT: DRYVIT OUTSULATION PLUS MD w/ MOISTURE DRAINAGE SYSTEM |TEXTURE: DRYVIT LYMESTONE | PAINTED COLOR: #105 SUEDE

SF1 SEE FINISH SCHEDULE

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant Copyright Placeholder

No.	Description	Date

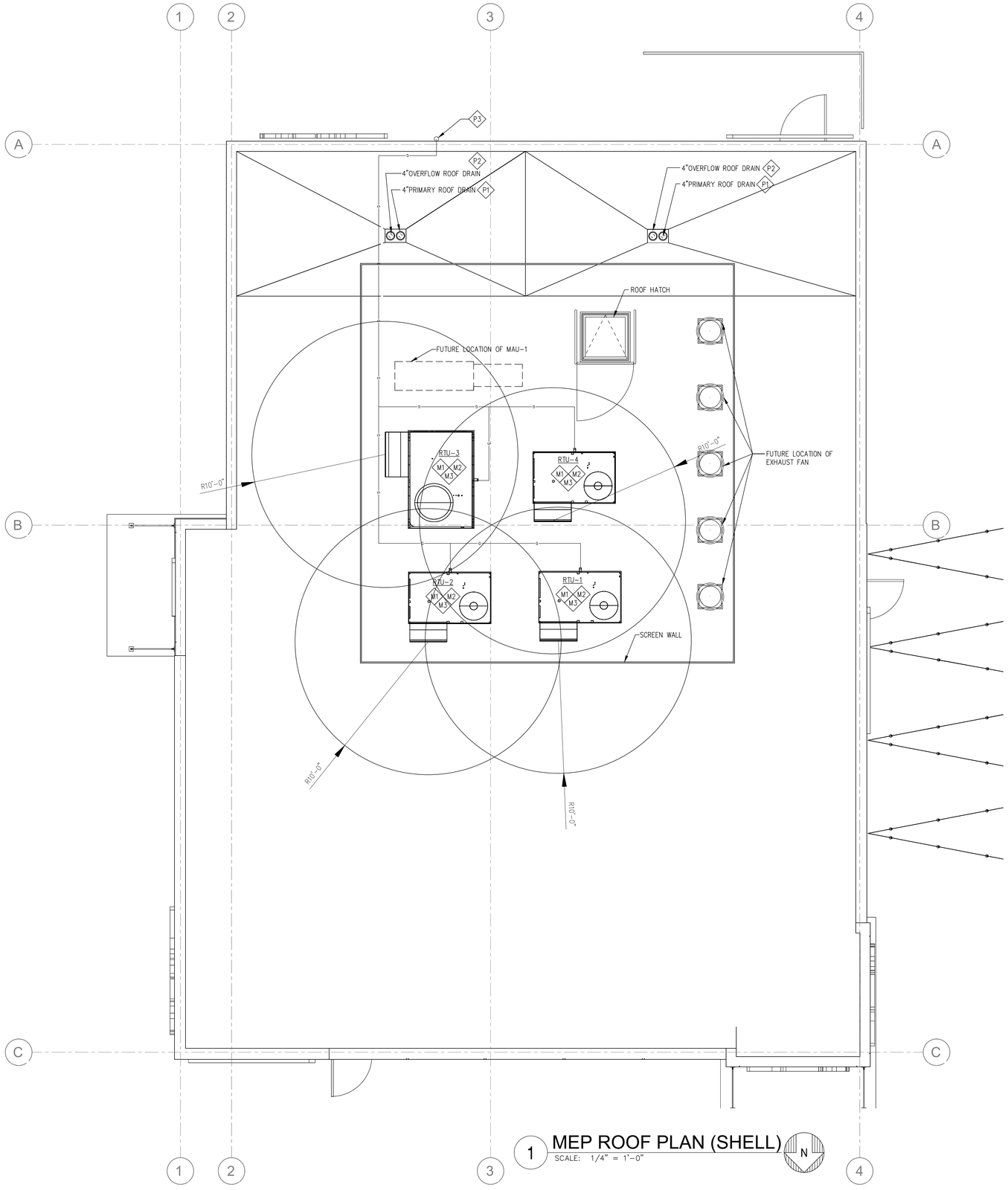
EXTERIOR ELEVATIONS

Project Number: 6360
Drawn By: Author
Issue Date: 08/29/2023
DPM: DPM DM: DM CPM: CPM

Sheet Number: **A201**

1/29/2024 11:50:01 AM

PR 2023.02.V1



1 MEP ROOF PLAN (SHELL)
SCALE: 1/4" = 1'-0"

MECHANICAL KEYED NOTES

M1 NEW ROOF TOP UNIT AS SHOWN IN SCHEDULE ON SHEET M2.2. UNIT SHALL BE LOCATED SUCH THAT SUPPLY AND RETURN DUCTWORK DROP BETWEEN JOISTS. SEE SHEET M2.1 FOR CONTINUATION. RUN CONDENSATE LINE TO NEAREST ROOF DRAIN.

M2 CONTRACTOR TO PROVIDE U.L. LISTED IONIZATION TYPE SMOKE DETECTOR INTERLOCKED W/ RTU CONTROLS TO SHUT RTU DOWN UPON ACTIVATION OF DETECTOR. LOCATE IN RETURN AIR DUCTWORK. DETECTORS SHALL BE ACCESSORIZED WITH VISIBLE AND AUDIBLE SIGNALS IN AN APPROVED LOCATION. (2022 IMC W/2022 NC MC AMENDMENTS CH.606.4.1. EX.2).

M3 PROVIDE AND INSTAL TWO PIECE THERMOSTAT (COSTAT02AE1L COMML TOUCHSCREEN) INSTALLED AT ROOFTOP UNIT. ROOFTOP UNIT CONTRACTOR TO LEAVE MINIMUM 50' OF WIRE AT THERMOSTAT FOR TENANT FINISH INSTALLATION. THERMOSTAT SENSOR TO BR PROVIDED BUT NOT INSTALLED. COORDINATE WITH OWNER REPRESENTATIVE.

PLUMBING KEYED NOTES

P1 PROVIDE WADE 3220 (OR EQUAL) ROOF DRAIN. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO COMMENCING WORK.

P2 PROVIDE WADE 3220 (OR EQUAL) OVERFLOW ROOF DRAIN WITH 2" DAM. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO COMMENCING WORK.

P3 GAS DN TO GAS METER.

Bakery-Cafe #:

1234

SYSTEM: NEXT-GEN

Project Team:

120 DEGREEZ MEP ENGINEERING
San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 1234
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant Copyright Placeholder

No.	Description	Date

MEP ROOF PLAN - SHELL

Project Number: 1234
Sheet Number: **M-2.0**
Drawn By: Author
Issue Date: XX.XX.XX
DPM: DPM DM: DM CPM: CPM

PR 2023.02.V1

Unit Report For RTU-1, 2, 4

Project: Panera Bread
Prepared By: Mohammed Al-Salmi
10/03/2023
09:57AM

Unit Parameters

Unit Model:	**48GCGJ06A2A5-0A0A0**
Unit Size:	**06 (5 Tons)**
Volts-Phase-Hertz:	**208-3-60**
Heating Type:	**Gas**
Heat Control:	**Ultra Low Nox, Low Gas Heat**
Duct Cfg.:	**Vertical Supply / Vertical Return**
DX Options:	**Two Stage Cooling Models**

Dimensions (ft. in.) & Weight (lb.) ***

Unit Length:	**6' 2.375"**
Unit Width:	**3' 10.625"**
Unit Height:	**3' 5.375"**
Total Operating Weight:	**600** lb

*** Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Lines and Filters

Gas Line Size:	**1/2**
Condensate Drain Line Size:	**3/4**
Return Air Filter Type:	**Throwaway**
Return Air Filter Quantity:	**4**
Return Air Filter Size:	**16 x 16 x 2**

Weights (lbs):

Unit: 600
Curb: 95
Economizer: 49

Total: 744 lbs

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration
Direct Drive - EcoBlue - Medium Static
Al/Cu - Al/Cu
Base controls set up for field installed air management devices
Standard Packaging

Warranty Information
1-Year parts(std.)
5-Year compressor parts(std.)
10-year heat exchanger - Ultra Low NOx modles

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

Ordering Information

Part Number	Description	Quantity
48GCGJ06A2A5-0A0A0	Rooftop Unit	1

Performance Summary For RTU-1, 2, 4

Project: Panera Bread
Prepared By: Mohammed Al-Salmi
10/03/2023
09:57AM

Part Number:48GCGJ06A2A5-0A0A0

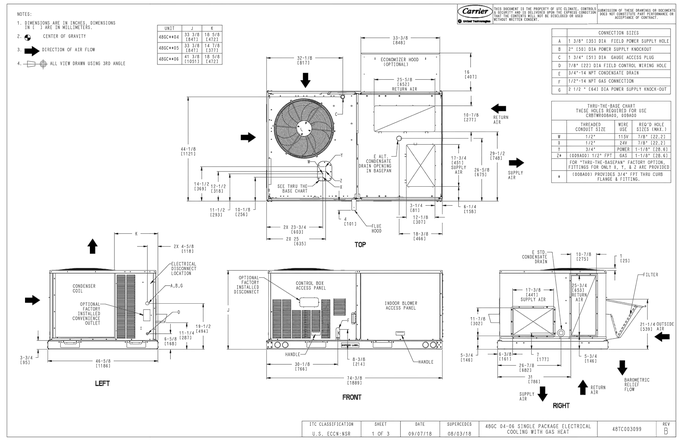
ARI SEER:	**17.40**	
ARI SEER2:	**16.50**	
Base Unit Dimensions		
Unit Length:	**74.4**	in
Unit Width:	**46.6**	in
Unit Height:	**41.4**	in
Operating Weight		
Base Unit Weight:	**600**	lb
Total Operating Weight:	**600**	lb
Unit		
Unit Voltage-Phase-Hertz:	**208-3-60**	
Air Discharge:	**Vertical**	
Fan Drive Type:	**Vane Axial**	
Actual Airflow:	**2000**	CFM
Site Altitude:	**0**	ft
Cooling Performance		
Condenser Entering Air DB:	**95.0**	F
Evaporator Entering Air DB:	**80.0**	F
Evaporator Entering Air WB:	**67.0**	F
Entering Air Enthalpy:	**31.44**	BTU/lb
Evaporator Leaving Air DB:	**58.3**	F
Evaporator Leaving Air WB:	**57.3**	F
Evaporator Leaving Air Enthalpy:	**24.57**	BTU/lb
Gross Cooling Capacity:	**61.81**	MBH
Gross Sensible Capacity:	**46.82**	MBH
Compressor Power Input:	**4.05**	kW
Coil Bypass Factor:	**0.083**	
Heating Performance		
Heating Airflow:	**2000**	CFM
Entering Air Temp:	**70.0**	F
Leaving Air Temp:	**92.7**	F
Gas Heating Input Capacity:	**60.0**	MBH
Gas Heating Output Capacity:	**49.0**	MBH
Temperature Rise:	**22.7**	F
Thermal Efficiency (%):	**81.0**	
Supply Fan		
External Static Pressure:	**1.00**	in wg
Fan RPM:	**2251**	
Fan Power:	**1.23**	BHP
NOTE:	**Selected IFM RPM Range: 1387 - 2390**	

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

Electrical Data		
Voltage Range:	**187 - 253**	
Compressor #1 RLA:	**16.4**	
Compressor #1 LRA:	**110**	
Indoor Fan Motor Type:	**MED**	
Indoor Fan Motor FLA (Total):	**8.6**	
Combustion Fan Motor FLA (ea):	**0.48**	
Power Supply MCA:	**32**	
Power Supply MOCP (Fuse or HACR):	**45**	

Certified Drawing for RTU-1, 2, 4

Project: Panera Bread
Prepared By: Mohammed Al-Salmi
10/03/2023
09:57AM



Unit Report For RTU-3

Project: Panera Bread
Prepared By: Mohammed Al-Salmi
10/03/2023
09:57AM

Unit Parameters

Unit Model:	**48GCDM12A2A5-0A0A0**
Unit Size:	**12 (10.0 Tons)**
Volts-Phase-Hertz:	**208-3-60**
Heating Type:	**Gas**
Heat Control:	**Low Heat**
Duct Cfg.:	**Vertical Supply / Vertical Return**
DX Options:	**Two Stage Cooling Models**

Dimensions (ft. in.) & Weight (lb.) ***

Unit Length:	**7' 4.125"**
Unit Width:	**4' 11.5"**
Unit Height:	**4' 1.375"**

*** Weights and Dimensions are approximate. Weight does not include roof curbs, unit packaging, field installed accessories or factory installed options. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Base Unit Weight (Does not include any accessories):
1037 lb

Lines and Filters

Gas Line Size:	**3/4**
Condensate Drain Line Size:	**3/4**
Return Air Filter Type:	**Throwaway**
Return Air Filter Quantity:	**4**
Return Air Filter Size:	**20 x 20 x 2**

Weight (lbs):

Unit: 1,037
Curb: 125
Economizer: 70

Total: 1,232 lbs

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration
Standard/Medium Static (EcoBlue)
Al/Cu - Al/Cu
Base controls set up for field installed air management devices
Standard Packaging

Warranty Information
No standard warranties.

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

Ordering Information

Part Number	Description	Quantity
48GCDM12A2A5-0A0A0	Rooftop Unit	1

Performance Summary For RTU-3

Project: Panera Bread
Prepared By: Mohammed Al-Salmi
10/03/2023
09:57AM

Part Number:48GCDM12A2A5-0A0A0

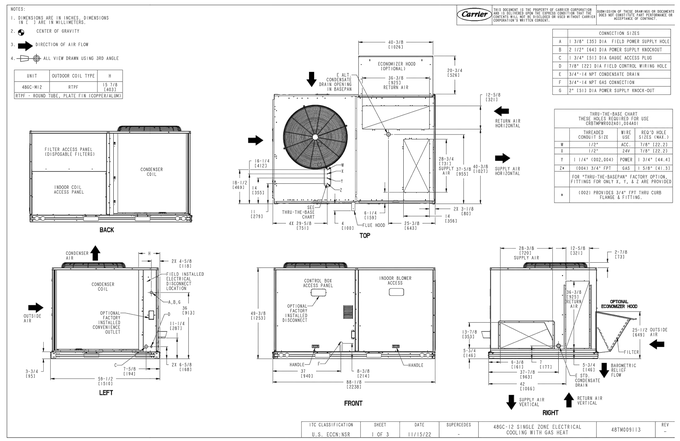
ARI EER:	**11.40**	
IEER:	**17.2**	
Base Unit Dimensions		
Unit Length:	**88.1**	in
Unit Width:	**59.5**	in
Unit Height:	**49.4**	in
Base Unit Weight (Does not include any accessories):	**1037**	lb
Unit		
Unit Voltage-Phase-Hertz:	**208-3-60**	
Air Discharge:	**Vertical**	
Fan Drive Type:	**Vane Axial**	
Actual Airflow:	**4000**	CFM
Site Altitude:	**0**	ft
Cooling Performance		
Condenser Entering Air DB:	**95.0**	F
Evaporator Entering Air DB:	**80.0**	F
Evaporator Entering Air WB:	**67.0**	F
Entering Air Enthalpy:	**31.44**	BTU/lb
Evaporator Leaving Air DB:	**58.9**	F
Evaporator Leaving Air WB:	**57.3**	F
Evaporator Leaving Air Enthalpy:	**24.59**	BTU/lb
Gross Cooling Capacity:	**123.18**	MBH
Gross Sensible Capacity:	**91.09**	MBH
Compressor Power Input:	**8.35**	kW
Coil Bypass Factor:	**0.069**	
Heating Performance		
Heating Airflow:	**4000**	CFM
Entering Air Temp:	**70.0**	F
Leaving Air Temp:	**104.2**	F
Gas Heating Input Capacity:	**140.0 / 180.0**	MBH
Gas Heating Output Capacity:	**98.0 / 147.6**	MBH
Temperature Rise:	**34.2**	F
Thermal Efficiency (%):	**82.0**	
Supply Fan		
External Static Pressure:	**1.00**	in wg
Fan RPM:	**1706**	
Fan Power:	**2.60**	BHP
NOTE:	**Selected IFM RPM Range: 1314 - 2200**	

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

Electrical Data		
Voltage Range:	**187 - 253**	
Compressor #1 RLA:	**19.6**	
Compressor #1 LRA:	**136**	
Compressor #2 RLA:	**13.7**	
Compressor #2 LRA:	**83**	
Indoor Fan Motor Type:	**MED**	
Indoor Fan Motor FLA (Total):	**6.4**	
Combustion Fan Motor FLA (ea):	**0.48**	
Power Supply MCA:	**52**	
Power Supply MOCP (Fuse or HACR):	**60**	
Disconnect Size FLA:	**54**	

Certified Drawing for RTU-3

Project: Panera Bread
Prepared By: Mohammed Al-Salmi
10/03/2023
09:57AM



Bakery-Cafe #:

1234

SYSTEM: NEXT-GEN

Project Team:

120 DEGREEN MEP ENGINEERING
San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 1234
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant Copyright Placeholder

No.	Description	Date

MECHANICAL SPECFICATIONS

Project Number: 1234
Sheet Number: M-2.3
Drawn By: Author
Issue Date: XX.XX.XX
DPM: DPM
DM: DM
CPM: CPM

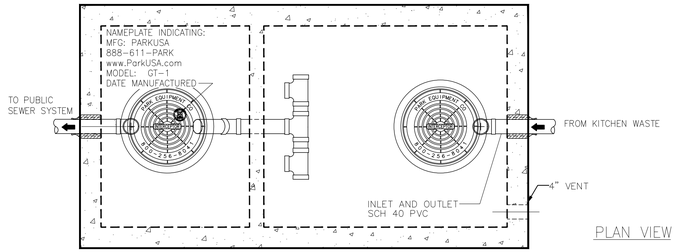
PR 2023.Q2.V1

PLUMBING FIXTURE SCHEDULE

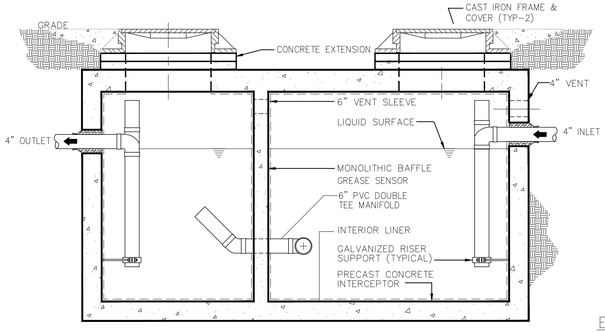
FIXT. ID	DESCRIPTION	MANUFACTURER	MODEL	ROUGH-IN W	ROUGH-IN V	ROUGH-IN CW	ROUGH-IN HW	REMARKS
FCO	FLOOR CLEANOUT	WATTS	CO-200-S	PIPE SIZE	-	-	-	WATTS DRAINAGE CO-200-S EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5" X5" SQUARE ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB (STANDARD) OUTLET.
GCO	GRADE CLEANOUT	WATTS	CO-200-SX	PIPE SIZE	-	-	-	WATTS DRAINAGE CO-200-SX EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5"X5" SQUARE ADJUSTABLE GASKETED HEAVY DUTY NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG AND NO HUB (STANDARD) OUTLET.
WH-1	WALL HYDRANT	JAY R. SMITH	5609QT	-	-	3/4"	-	WITH VACUUM BREAKER.
DSN-1	DOWNSPOUT NOZZLE	JAY R. SMITH	1770	-	-	-	-	

GREASE INTERCEPTOR SCHEDULE

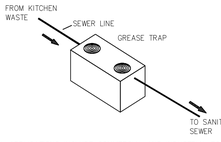
MARK	FIXTURE	LOCATION	DESCRIPTION / REMARKS
GI-1	GREASE INTERCEPTOR	SEE PLANS	PARK USA GT-1250, MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFIRMING TO ASTM A48 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY. THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFIRM TO UPC/CPC AND REGIONAL PLUMBING CODES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. 4" THICK MINIMUM CONCRETE REINFORCED CONCRETE SLAB OVER THE INTERCEPTOR IS REQUIRED



PLAN VIEW



ELEVATION



TYPICAL APPLICATIONS INCLUDE COMMERCIAL AND INDUSTRIAL FOOD SERVICE KITCHENS WHERE EXCESSIVE GREASE MAY INTERFERE WITH THE PROPER DRAINAGE OF THE SEWER SYSTEM. THE GREASE INTERCEPTOR IS GENERALLY BURIED BELOW GRADE FOR GRAVITY FLOW.

GREASE INTERCEPTOR SCHEDULE

MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"
GT-750	750	1,700	9,900	7'-10"	4'-4"	6'-0"	4'-5"	4'-2"
GT-1000	1,000	2,300	13,350	8'-8"	5'-0"	6'-0"	4'-9"	4'-6"
GT-1250	1,250	2,900	14,650	9'-2"	5'-8"	6'-0"	4'-9"	4'-6"
GT-1500	1,500	3,500	16,050	9'-2"	5'-8"	7'-0"	5'-9"	5'-6"
GT-2000	2,000	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"
GT-2500	2,500	5,700	27,050	13'-0"	7'-0"	7'-0"	5'-9"	5'-6"
GT-3000	3,000	6,900	33,150	13'-0"	7'-0"	8'-0"	6'-9"	6'-6"
GT-3500	3,500	8,000	38,550	13'-0"	7'-0"	8'-6"	7'-3"	7'-0"
GT-4000	4,000	9,300	38,100	16'-0"	8'-6"	7'-0"	5'-9"	5'-6"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

SPECIFICATIONS

CONCRETE : CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH. (MONOLITHIC BAFFLE REQUIRED, SLIDE-IN TYPE IS NOT ACCEPTABLE)

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

ENGINEERING DATA

THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO UPC/IPC AND REGIONAL PLUMBING CODES RECOMMENDED IN MOST CITIES. CONSULT WITH LOCAL AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL & BOUYANCY CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER UPON REQUEST.

CONSULT WITH PARKUSA COMPANY FOR EXACT EXCAVATION DIMENSIONS & SHIPPING INFORMATION.

1 GREASE INTERCEPTOR DETAIL
SCALE: NONE

PLUMBING SPECIFICATIONS:

1. GENERAL:

1.1 ALL PLUMBING WORK INCLUDING INSTALLATION, EQUIPMENT, FIXTURES AND PIPING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH LOCAL CODE AND ADOPTED ORDINANCES, AND REGULATIONS SET FORTH BY THE AHJ (AUTHORITY HAVING JURISDICTION).

1.2 ROUTING OF ALL SANITARY PLUMBING, DOMESTIC WATER PIPING AND GAS PIPING SHOWN ON THE PLANS IS SHOWN WITH THE INTENTION OF INDICATING THE APPROXIMATE LOCATION OF EXISTING CONDITIONS, AND NEW ITEMS. PLUMBING CONTRACTORS SHALL VISIT THE JOB SITE CONDITIONS PRIOR TO SUBMITTING BIDS OR STARING WORK. THIS CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THE WORK OF ALL OTHER TRADES TO AVOID INTERFERENCE. CONTRACTORS MAD DEVIATE FROM THE LOCATION OF PIPING SHOWN IF INSTALLATION COMPLIES WITH LOCAL CODES AND INDUSTRY PRACTICES, AND IF THE AHJ AND OWNER'S REPRESENTATIVE APPROVE. ITEMS NOT SHOWN ON PLANS OR SHOWN IN CONFLICT WITH ANY CODE, REGULATION OR EXISTING CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL WORK IN ACCORDANCE WITH LOCAL CODES.

1.3 PRIOR TO SUBMISSION OF THE CONTRACTORS COST ESTIMATE FOR WORK INCLUDED UNDER THIS PROJECT, THE CONTRACTOR SHALL VISIT THE JOB SITE TO EXAMINE ALL EXISTING CONDITIONS RELATED TO HIS WORK, AND UPON FINAL EXAMINATION OF SUCH SHALL SUBMIT A FINAL PROPOSAL AS EVIDENCE THAT THIS CONTRACTOR HAS VISITED SAID SITE AND VERIFIED ALL EXISTING AND PROJECT CONDITIONS. CLAIMS OF ADDITIONAL WORK OR ADD-ONS DUE TO NON-VERIFICATION OF EXISTING CONDITIONS WILL NOT BE CONSIDERED BY THE OWNER. ALL ADDITIONAL WORK WHICH IS NOT CLEARLY APPROVED PRIOR TO PERFORMANCE OF SUCH WORK WILL BE CHARGED TO THE CONTRACTOR, AND IF NOT SETTLED WILL BE HELD FROM HIS FINAL PAYMENT.

2. MATERIALS:

2.1 DOMESTIC WATER PIPING:

WATER PIPING SHALL BE TYPE-L COPPER WITH WROUGHT FITTINGS. LEAD-FREE SOLDER OR SILVER SOLDER SHALL BE USED AT ALL POINTS OF CONNECTION. HANGERS SHALL BE EQUAL TO CLEVIS TYPE HANGERS AND SHALL BE USED ON ALL PIPING AT INTERVALS AS REQUIRED BY CODE. THE CONTRACTOR SHALL ALLOW ADDITIONAL CLEARANCE FOR EXPANSION AND CONTRACTION FOR INSULATED AND NON-INSULATED PIPING. AT THE CONTRACTOR'S OPTION CROSS LINKED POLYETHYLENE (PEX) PIPING MAY BE UTILIZED WHERE ALLOWED BY THE AUTHORITY HAVING JURISDICTION.

ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL COMPLY WITH THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE DRINKING WATER ACT.

2.2 DRAIN, WASTE AND VENT PIPING:

DRAIN, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC OR SERVICE WEIGHT CAST IRON, AS REQUIRED BY CODE. PVC SHALL NOT BE USED IN RETURN AIR PLENUMS WHERE PROHIBITED BY CODE. WHERE FLOOR OR HUB DRAINS ARE SHOWN AS CAST IRON, THE CONTRACTOR SHALL PROVIDE A SUITABLE COUPLING WHICH IS APPROVED BY CODE.

ALL CAST IRON SOIL PIPE/FITTINGS BELOW OR ABOVE GROUND SHALL BEAR THE COLLECTIVE TRADEMARK OF CISPI AND/OR BE "NSF INTERNATIONAL".

ALL STANDARD COUPLINGS SHALL BE IN COMPLIANCE TO CISPI 310 (LATEST EDITION), BEARING THE MARK OF NSF INTERNATIONAL.

OR

AT THE CONTRACTOR'S OPTION AND WHERE ALLOWED BY CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION SCHEDULE 40 PVC-DWV MAY BE USED.

CONDENSATE DRAIN LINES FOR COOLERS AND FREEZER SHALL BE COPPER.

3. VALVES:

SHUT OFF VALVES SHALL BE EITHER GATE-TYPE OR BALL VALVES BY "CRANE", "STOCKHAM" OR "POWELL" MIXING VALVES SHALL BE BY "LAWLER" OR APPROVED EQUAL. BACKWATER VALVES SHALL BE BY "ZURN" OR APPROVED EQUAL. ALL VALVES SHALL MEET THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE DRINKING WATER ACT.

4. PLUMBING SPECIALTIES:

4.1 WATER HAMMER ARRESTORS:

PROVIDE FACTORY MANUFACTURED WATER HAMMER ARRESTORS BY "NIBCO", "WADE" OR EQUAL. AT THE CONTRACTORS OPTION AND WHERE ALLOWED BY CODE, 12" HIGH AIR CHAMBERS CONSTRUCTED OF (LEAD FREE) TYPE-L COPPER AND ONE SIZE LARGER THAN THE SUPPLY PIPING SHALL BE ALLOWED.

4.2 CLEAN OUTS:

WALL CLEAN OUTS SHALL HAVE STAINLESS STEEL COVERS AS MANUFACTURED BY "WADE" OR APPROVED EQUAL. FLOOR CLEAN OUTS SHALL HAVE SATIN FINISH NICKEL TOP, IN FINISHED AREA, AND SATIN BRONZE CAP IN AREAS WHICH ARE NOT FINISHED. CLEAN OUTS SHALL BE MANUFACTURED BY "WADE" OR APPROVED EQUAL..

4.3 FIXTURES:

PLUMBING SHALL BE AS SPECIFIED ON THESE PLANS OR ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHOULD MEET ADA REQUIREMENTS WHERE APPLICABLE. FIXTURES SHOULD BE OF THE HIGHEST QUALITY BY "AMERICAN STANDARD", "KOHLER" OR APPROVED EQUAL AND SHALL MEET THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE WATER DRINKING ACT.

4.4 WATER HEATERS:

IF NEW WATER HEATER(S) ARE TO BE INSTALLED THEY SHALL BE AS SPECIFIED ON THE PLANS, AND SHALL BE OF COMMERCIAL GRADE, AND AGA APPROVED IS GAS FIRED AND UL APPROVED IF ELECTRIC. HEATERS SHALL HAVE A 150 PSI WORKING PRESSURE RATING. WATER HEATERS AND ALL COMPONENTS SHALL MEET THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE DRINKING WATER ACT. WATER HEATER INSTALLATION MANUALS SHALL BE GIVEN TO THE OWNER. SEE PLUMBING FIXTURE SCHEDULE.

4.5 GAS PIPING:

ALL GAS PIPING SHALL BE SIZED, INSTALLED, TESTED, AND LABELED IN ACCORDANCE WITH LOCAL CODE. GAS PIPING SHALL BE SCHEDULE 40 BLACK IRON OR TYPE-L COPPER WITH BRAZED FITTINGS. BUSHINGS ARE PROHIBITED. BELL REDUCERS SHALL BE INSTALLED AT REDUCTION IN PIPE SIZE. GROUND JOINT UNIONS AND SHUT OFF VALVES SHALL BE INSTALLED AT ALL GAS APPLIANCES. FLEXIBLE GAS LINES ARE PROHIBITED ON STATIONARY APPLIANCES AND SHALL ONLY BE INSTALLED ON FULLY PORTABLE EQUIPMENT. A RESTRAINT CABLE SHALL BE ATTACHED TO ANY FLEXIBLE CONNECTOR AND THE FLOOR SUCH THAT THE FLEXIBLE CONNECTOR CANNOT BE OVER EXTENDED.

5. EXECUTION:

5.1 ALL PLUMBING FIXTURES, EQUIPMENT AND PIPING SHALL BE INSTALLED PER LOCAL CODE AND ESTABLISHED INDUSTRY PRACTICES. LOCATE ALL PIPING, AS SHOWN ON THE PLANS.

5.2 COORDINATE WITH ALL OTHER TRADES TO AVOID INTERFERENCE, AND ADHERE TO ALL SPECIFICATIONS AND MANUFACTURER GUIDELINES.

5.3 RUN ALL DOMESTIC WATER PIPING AS HIGH AS POSSIBLE. INSTALL HANGERS AND STRAPPING, ALLOWING FOR EXPANSION AND CONTRACTION OF PIPING. DO NOT HANG OR SUPPORT OTHER EQUIPMENT OR PIPING FROM WATER LINES. SEPARATE HOT AND COLD WATER LINES A MINIMUM OF SIX (6) INCHES. INSULATE ALL PIPING WITH 1" INSULATION WHICH MEETS OR EXCEEDS 25/50 RATINGS.

5.4 INSTALL SOIL, WASTE AND VENT PIPING WITH A MINIMUM SLOPE OF 1/4" PER FOOT IN THE DIRECTION OF FLOW FOR DRAINS AND AGAINST THE FLOW OF VENT GASSES. NO FIXTURE SHALL HAVE AN S-TRAP OR BE DOUBLE TRAPPED.

5.5 INSULATE ALL DOMESTIC WATER PIPING, HORIZONTAL WASTE PIPING AND STORM DRAINAGE PIPING ABOVE CEILINGS.

6. VALVES:

LOCATE VALVES SO AS TO BE ACCESSIBLE AND SO THAT SEPARATE SUPPORT CAN BE PROVIDED WHEN NECESSARY. INSTALL ALL STEMS UPRIGHT. DO NOT INSTALL VALVES OF DISSIMILAR COMPOSITION WITHOUT AN APPROVED DIELECTRIC FITTING.

7. TEST AND STERILIZATION:

FLUSH, TEST AND STERILIZE ALL PLUMBING PIPING INCLUDING DRAINS, WASTE VENTS AND WATER PIPING PER LOCAL CODES AND REGULATIONS.

Bakery-Cafe #:

1234

SYSTEM: NEXT-GEN

Project Team:

120 DEGREEN MEP ENGINEERING
San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 1234
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant Copyright Placeholder

No.	Description	Date

PLUMBING SPECIFICATIONS, SCHEDULES, AND DETAILS

Project Number: 1234
Drawn By: Author
Issue Date: XX.XX.XX
Sheet Number: **P106**

DPM: DPM | DM: DM | CPM: CPM

R9 2023.02.V1

GENERAL NOTES

1. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE INCLUSIVE OF CITY OF RIVERSIDE AMENDMENTS, PERTINENT NFPA CODES AS WELL AS ALL RULES AND REGULATIONS OF LOCAL, STATE AND, FEDERAL AUTHORITIES HAVING JURISDICTION.
2. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE MAIN CONTRACT CONDITIONS, ELECTRICAL SPECIFICATIONS (DIVISION 26), THE MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS, THE ARCHITECTURAL DRAWINGS, THE STRUCTURAL ENGINEER'S DRAWINGS, THE TELECOMMUNICATIONS, AUDIO VISUAL AND SECURITY DRAWINGS (DIVISION 27 AND 28).
3. CONTRACTOR SHALL EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER & TO THE SATISFACTION OF THE CONSULTING ENGINEER, WHO WILL INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS AND SHALL HAVE THE POWER TO REJECT ANY WORK AND MATERIALS WHICH, IN THEIR JUDGMENT, ARE NOT IN FULL ACCORDANCE THEREWITH.
4. THE DRAWINGS SHOW THE VARIOUS CONDUIT AND PIPING SYSTEMS SCHEMATICALLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY JUNCTION BOXES, PULL BOXES, SUPPORT AND ACCESSORIES TO MEET APPLICABLE CODES, BUILDING STANDARDS AND FULFILL CONTRACT DOCUMENTS. NO ADDED COMPENSATION WILL BE PERMITTED FOR VARIATIONS DUE TO FIELD CONDITIONS.
5. DO NOT SCALE FROM THE DRAWINGS, IF IN DOUBT, REQUEST FURTHER INFORMATION.
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR SETTING OUT AND MOUNTING HEIGHT DETAILS OF ALL DEVICES, SWITCHES, ETC.
7. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE SETTING OUT OF ALL CEILING MOUNTED COMPONENTS.
8. ALL AREAS ASSOCIATED WITH WORK TO BE PERFORMED SHALL BE EXAMINED PRIOR TO BID SUBMISSION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CONDITIONS FOUND DURING INSTALLATION.
9. CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, AND APPURTENANCES REQUIRED FOR THE INSTALLATION AND TESTING OF ALL EQUIPMENT AND APPLIANCES INDICATED IN THESE DOCUMENTS. CONTRACTOR SHALL COMPLETE ALL WORK AND VERIFY THE OPERATION OF ALL EQUIPMENT IN A MANNER SATISFACTORY TO THE ARCHITECT AND ELECTRICAL CONSULTING ENGINEER.
10. WHERE CONDUIT, CABLE, CABLE TRAY OR OTHER ELECTRICAL EQUIPMENT SUCH AS CUTOUT BOXES, LUMINARIES OR PANELBOARDS, PENETRATE RATED ASSEMBLIES, FIRE BARRIERS, FIRE WALLS, FIRE PARTITIONS, SMOKE BARRIERS, OR SMOKE PARTITIONS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN APPROPRIATE FIRE OR SMOKE STOPPING SYSTEM THAT IS LISTED BY UNDERWRITERS LABORATORIES OR COMPLIES WITH THE APPROPRIATE ICC EVALUATION REPORT AND DOES NOT REDUCE THE RATING OF THE ASSEMBLY. ALL THROUGH AND MEMBRANE PENETRATIONS SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD FOR APPROVAL PRIOR TO INSTALLATION. ALL ACCESS PANELS SHALL BE APPROVED AND LISTED FOR THE ASSEMBLY IN WHICH THEY ARE BEING INSTALLED. COMPLY WITH ALL REQUIREMENTS OF DIVISION 26 SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATINGS OF ALL ASSEMBLIES. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.
11. CONDUIT RUNS INDICATED ON PLAN ARE FOR REFERENCE ONLY. EXACT LOCATIONS AND ELEVATIONS SHALL BE DETERMINED AFTER COORDINATING WITH OTHER TRADES AND THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL SUPPLY, AS PART OF THEIR SHOP DRAWING SUBMISSION, THE EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT AND CONDUIT RUNS, INCLUDING THE PROPOSED LOCATIONS AND THE MEANS OF SUPPORT. PROVIDE THE ARCHITECT AND STRUCTURAL ENGINEER THE ANTICIPATED LOAD AT THE POINTS OF ATTACHMENT PRIOR TO COMMENCEMENT OF WORK.
12. CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF ALL NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH THE EQUIPMENT MANUFACTURER AND OWNER PRIOR TO INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHMENT PLUGS OR JUNCTION BOXES THAT MAY BE FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT.
13. ALL RECEPTACLES SHALL BE ACCESSIBLE. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT RECEPTACLES WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS, THE OWNER, AND THE AUTHORITY HAVING JURISDICTION.
14. CONTRACTOR SHALL PROVIDE DISCONNECTS FOR ALL EQUIPMENT AS REQUIRED BY THESE DOCUMENTS AND THE ADOPTED CODES. COORDINATE ALL REQUIREMENTS AND LOCATIONS WITH THE AUTHORITY HAVING JURISDICTION, THE VENDORS APPROVED SHOP DRAWINGS AND FINAL EQUIPMENT LOCATIONS.
15. CONTRACTOR SHALL COORDINATE ALL LOCATIONS AND HEIGHTS OF STUB-UPS AND STUB-OUTS AS WELL AS ALL OUTLETS IN FIELD.
16. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE ACCORDING TO VENDOR'S APPROVED SHOP DRAWINGS AND THE LISTING OF THE EQUIPMENT.
17. ALL WORK AND/OR EQUIPMENT INSTALLED OUTDOORS SHALL BE APPROVED FOR USE IN WET LOCATIONS.
18. ALL PARTS OF THE WORK AND ASSOCIATED EQUIPMENT SHALL BE TESTED AND ADJUSTED TO WORK PROPERLY AND BE IN PERFECT OPERATING CONDITION. THIS SHALL INCLUDE MEG-OHM TESTING BETWEEN PHASES, BETWEEN EACH PHASE AND THE GROUNDED CONDUCTOR, AND EACH PHASE AND THE EQUIPMENT GROUND FOR ALL FEEDERS, TAPS, SECONDARY CONDUCTORS , SWITCHBOARDS AND PANELBOARDS. FURNISH ALL TEST RESULTS TO THE ELECTRICAL CONSULTING ENGINEER FOR REVIEW PRIOR TO ENERGIZING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL CORRECT ANY DEFECTS IDENTIFIED THOUGH THIS TESTING.
19. PROVIDE ISOLATED GROUND TYPE OUTLETS WHERE THE "IG" SUBSCRIPT IS INDICATED.
20. WALL-MOUNTED OUTLETS, SWITCHES, AND CONTROL DEVICES, SHOULD BE MOUNTED AT THE HEIGHTS INDICATED IN THESE DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY AND FULLY COMPLY WITH, ALL AMERICANS WITH DISABILITIES REQUIREMENTS AND MEET ALL REQUIREMENTS ESTABLISHED BY THE HOUSING AND URBAN DEVELOPMENT (HUD) STANDARDS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
21. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF RIVERSIDE RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY OF RIVERSIDE, DEPARTMENT OF BUILDING AND SAFETY.
22. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE MANDATED BY THE CALIFORNIA ELECTRICAL CODE ABOVE OR BELOW ELECTRICAL EQUIPMENT.
23. ADEQUATE CLEARANCE AROUND AND ABOVE ELECTRICAL EQUIPMENT SHALL BE MAINTAINED PER CALIFORNIA ELECTRICAL CODE SECTION 110.26.
24. ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING AND STRUCTURE, INCLUDING THE PHOTOVOLTAIC SYSTEM, SHALL BE BONDED TOGETHER.
25. ALL WORK TO COMPLY WITH 2022 C.E.C. AND 2022 ENERGY EFFICIENCY STANDARDS.
26. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNDERGROUND CONDUCTORS AT THE POINT OF DISTRIBUTION PER C.E.C. 210.4 [B].
27. G.F.C.I. PROTECTION REQUIRED FOR APPLIANCES IN DEDICATED SPACES AND RECEPTACLES NOT READILY ACCESSIBLE PER C.E.C. 210.8 [A].
28. G.F.C.I. PROTECTION IS REQUIRED FOR ALL 125 VOLT, SINGLE PHASE 15 AND 20 AMP RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS AND WITHIN 6-FEET OF SINKS AS PER C.E.C. 210.8 [B].
29. 125V, 15 AND 20 AMP RECEPTACLES ARE REQUIRED, PER C.E.C. 210.52, TO BE LISTED AS TAMPER RESISTANT.
30. PROVIDE CARBON MONOXIDE ALARMS IN DWELLING UNITS WHERE FUEL BURNING APPLIANCES ARE INSTALLED AND/OR IN DWELLING UNITS WITH ATTACHED GARAGES PER C.B.C. 420.4.
31. PROVIDE "ARC-FLASH" LABELING ON SWITCHBOARDS, DISTRIBUTION BOARDS AND PANELBOARDS.
32. UPON COMPLETION OF THIS PROJECT, PROVIDE THE PROJECT OWNER WITH AN APPROVED COPY OF THE CERTIFICATE OF OCCUPANCY AND OR A COPY OF THE FINAL APPROVAL OF THE ELECTRICAL SYSTEM.

CONDUIT AND CIRCUIT WIRING NOTES

1. ALL CONDUIT AND CABLE "HOME RUNS" SHALL CONSIST OF A SINGLE CIRCUIT PER CONDUIT FOR THREE PHASE CIRCUITS, AND SINGLE PHASE CIRCUITS SERVED BY AN OVERCURRENT PROTECTIVE DEVICE (OCPD) IN EXCESS OF 20 AMPERES SINGLE POLE.
2. WHERE WIRE AND CONDUIT BRANCH CIRCUITS SHARE A CONDUIT HOME RUN, (OCPD LESS THAN OR EQUAL TO 20 AMPERES SINGLE POLE) THERE SHALL BE A MAXIMUM OF THREE CIRCUITS COMBINED IN A SINGLE RACEWAY TO THE PANELBOARD, UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE DE-RATED PER CALIFORNIA ELECTRICAL CODE. COMBINING OF MULTIPLE HOME RUNS (MORE THAN THREE) IN A SINGLE CONDUIT IS NOT PERMITTED. WITH THE EXCEPTION OF FURNITURE FEED TYPE WIRING SYSTEMS THE SHARING OF NEUTRALS AND GROUNDING CONDUCTORS BETWEEN CIRCUITS IS NOT PERMITTED.
3. CONTRACTOR SHALL VERIFY PHASE LOAD BALANCING ON POWER PANELS UPON COMPLETION OF THE ELECTRICAL INSTALLATION. INCLUDE RE-DISTRIBUTION OF CIRCUITS WITHIN PANELS TO BALANCE WITHIN A 10% WINDOW (±5%).
4. UNLESS OTHERWISE NOTED ALL BRANCH CIRCUITS SHALL BE 20-AMPERE DEDICATED CIRCUITS WITH 3/4"C, #12, #12N, #12G MINIMUM.
5. ALL CIRCUITS TO HAVE BOTH CONDUCTORS AND GROUND WIRE HOME RUN TO SERVICE PANEL.
6. ALL FEEDER AND BRANCH CIRCUIT WIRING SHALL BE A MINIMUM SIZE OF AWG #12. METAL CLAD (MC) CABLING IS PERMITTED
7. RIGID STEEL CONDUITS:
   - 7.1. USE FOR ALL SIZES WHERE DIRECTLY EXPOSED TO WEATHER; WHERE SUBJECT TO ABNORMAL CONDITIONS OF HEAT, COLD, MOISTURE, HUMIDITY, FUMES AND HAZARDOUS ELEMENTS; WHERE INSTALLED EXPOSED BELOW 7-1/2', IN AREAS WHERE SUBJECT TO MECHANICAL INJURY. USE FOR ALL CONDUIT IN ALL ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS; FOR LOW VOLTAGE (UP TO 600 VOLTS) FEEDERS INSIDE OF BUILDING AND IN CONCRETE SLABS ON GRADE.
   - 7.2. FOR ALL BENDS IN CONDUITS 3" AND LARGER, AND OVER 50' IN LENGHT, USE LARGE RADIUS FACTORY MADE BENDS OR FIELD FABRICATE WITH A POWER BENDER.
8. ELECTRICAL METALLIC TUBING (EMT)
   - 8.1. PERMITTED TO BE USED IN WET LOCATIONS WITH APPROVED FITTINGS.
   - 8.2. CONDUITS SHALL BE CONTINUOUS. CONDUCTORS SHALL NOT BE INSTALLED UNTIL THE RACEWAY SYSTEM IS COMPLETE.
9. RIGID PLASTIC CONDUITS:
   - 9.1. ALL CONDUITS INSTALLED UNDERGROUND, OR ENCASED IN CONCRETE, SHALL BE SCHEDULE 40 PVC CONDUIT.
   - 9.2. MAKE ALL FITTINGS IN PLASTIC CONDUITS WATERTIGHT WITH APPROVED SOLVENT-WELD CEMENT SPECIFICALLY MANUFACTURED FOR THE PURPOSE. APPLY HEAT FOR BENDS SO THAT CONDUIT DOES NOT DISTORT OR DISCOLOR.
10. PVC JACKETED STEEL CONDUITS:
   - 10.1. USE FOR ALL SIZES IN SOIL BELOW THE BUILDING.
   - 10.2. FOR ALL BENDS IN CONDUITS 1-1/4" AND LARGER, USE LARGE RADIUS FACTORY MADE BENDS OR FIELD FABRICATE WITH A POWER BENDER.

RELEVANT CODE CYCLES

2020 NEC
2022 CEC
2022 TITLE 24 PART 6

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
(X)	KEYNOTE IDENTIFIER X - KEYNOTE NUMBER
△X	REVISION CHANGE X - DELTA NUMBER
X / EXXX	DETAIL/ENLARGED PLAN CALLOUT X - DETAIL/REFERENCE# EXXX - SHEET #
X / EXXX	SECTION IDENTIFIER X - SECTION # EXXX - SHEET #

EQUIPMENT POWER

a. b. KVA c. V d. P e. W f.	EQUIPMENT CALLOUT a. EQUIPMENT DESIGNATION b. EQUIPMENT LOADING IN KVA OR HP c. EQUIPMENT UTILIZATION VOLTAGE d. NUMBER OF POLES e. NUMBER OF WIRES f. RELEVANT NOTES
--A --P	(--A) - DENOTES CONTINUOUS CURRENT RATING IN AMPS (--P) - DENOTES NUMBER OF SWITCHED POLES
	HARD WIRED CONNECTION TO FIXED EQUIPMENT OR PACKAGED UNIT (NON-MOTOR)
	HARD WIRED CONNECTION TO MOTORIZED EQUIPMENT (MOTOR / FAN / PUMP / FAN COIL UNIT)
30A 2P	UL LISTED DISCONNECT (UNFUSED): APPROVED FOR MOTOR USE AS APPLICABLE MATCH VOLTAGE AND POLES TO EQUIPMENT 30A, 2 POLES, NEMA 1 U.O.N.
30AS 30AF	UL LISTED DISCONNECT (FUSED): APPROVED FOR MOTOR USE AS APPLICABLE --AS - DENOTES SWITCH RATING IN AMPS --AF - DENOTES FUSE SIZE IN AMPS MATCH VOLTAGE AND POLES TO EQUIPMENT. NEMA 1 U.O.N
3R	PRE-WIRED UL LISTED MOTOR CONTROLLER (FURNISHED BY DIV 21, 22 AND 23 U.O.N) COMPLETE WITH INTEGRAL OVERLOAD PROTECTIVE DEVICE. 3R INDICATES NEMA SIZE, NEMA 1 U.O.N.
3R	PRE-WIRED CONTROL PANEL (FURNISHED BY DIV 21, 22 AND 23 U.O.N.) COMPLETE WITH INTEGRAL DISCONNECT AND OVERLOAD PROTECTIVE DEVICES. 3R INDICATES NEMA SIZE, NEMA 1 U.O.N.
VFD 3R	UL LISTED VARIABLE FREQUENCY DRIVE (FURNISHED BY DIV 21, 22 AND 23 U.O.N.) COMPLETE WITH INTEGRAL DISCONNECT AND OVERLOAD PROTECTIVE DEVICES. 3R INDICATES NEMA SIZE, NEMA 1 U.O.N.
$	HARD WIRED CONNECTION TO FIXED EQUIPMENT OR PACKAGED UNIT (NON-MOTOR) WITH TOGGLE SWITCH
$	SINGLE PHASE MANUAL STARTER WITH OVERLOAD PROTECTION FOR FRACTIONAL HORSEPOWER MOTORS
--A / --P CB	CIRCUIT BREAKER IN NEMA TYPE 1 ENCLOSURE: --A - DENOTES TRIP SETTING --P - DENOTES POLES
L-1A P-1A Q-1A	PANELBOARD L - DENOTES LIGHTING AND MISCELLANEOUS 277V LOADS P - DENOTES POWER AND 120/208V LOADS Q - DENOTES EQUIPMENT AND/OR EXTERNAL SUPPLIES
	DRY TYPE ENERGY EFFICIENT TRANSFORMER PER SPECIFICATION: 30kVA AND LARGER SHALL BE FLOOR STANDING U.O.N. 115°C TEMPERATURE RISE U.O.N. AS 80°C ON SHEET E6.1 VOLTAGES AND kVA RATING - AS PER SHEET E6.1 K-RATING - STANDARD U.O.N. ON SHEET E6.1

SINGLE LINE DIAGRAM

(A)	AMP METER
(V)	VOLT METER
ATS #A	2P, 3W, AUTOMATIC TRANSFER SWITCH - #A DENOTES RATING
PB	PULL BOX SIZE PER CEC
G	GROUND FAULT TRIP UNIT
	TRANSFORMER WITH SECONDARY GROUND (SEE TRANSFORMER SCHEDULE)
--AS / --AF	SWITCH AND FUSE UNIT: --AS - DENOTES SWITCH RATING IN AMPS --AF - DENOTES FUSE SIZE IN AMPS
ST --A --P MCCB	MOLDED CASE CIRCUIT BREAKER (MCCB): --A - DENOTES TRIP SETTING IN AMPS --P - DENOTES NUMBER OF POLES (ST) - DENOTES SHUNT TRIP
--AT / --AF L S I G SOLID STATE TRIP	AIR INSULATED CIRCUIT BREAKER --AT - DENOTES TRIP SETTING IN AMPS --AF - DENOTES FRAME SIZE (L)ONG TIME DELAY - OVERLOAD PROTECTION (S)HORT TIME DELAY - SHORT CIRCUIT WITH DELAYED TRIP (I)NSTANTANEOUS TRIP - SHORT CIRCUIT PROTECTION (G)ROUND FAULT PROTECTION
(M)	CLASS 2000 DIGITAL kWH AND kW/DEMAND METER HOUSED IN MULTIPLE METER UNIT. REFER TO SPECIFICATION 262713 FOR FURTHER DETAILS
	GROUNDING RODS TO ACHIEVE A MAXIMUM IMPEDANCE OF 5@ TO GROUND PER SPECIFICATION 260526. RODS TO BE SPACED A MINIMUM OF 10' APART. QUANTITY AS REQUIRED TO ACHIEVE IMPEDANCE.

WIRING DEVICES

	20A, 125V, DUPLEX RECEPTACLE, NEMA 5-20R
	20A, 125V, DUPLEX RECEPTACLE, WITH GROUND FAULT CIRCUIT INTERRUPTER, NEMA 5-20R.
	20A, 125V, DUPLEX RECEPTACLE, WITH ARC FAULT CIRCUIT INTERRUPTER, NEMA 5-20R.
	20A, 125V, QUADRUPLEX RECEPTACLE, NEMA 5-20R
	20A, 125V, QUADRUPLEX RECEPTACLE, WITH GROUND FAULT CIRCUIT INTERRUPTER, NEMA 5-20R.
	20A, 125V, QUADRUPLEX RECEPTACLE, WITH ARC FAULT CIRCUIT INTERRUPTER, NEMA 5-20R.
	20A, 125V, ABOVE COUNTERTOP MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R
	20A, 125V, ABOVE COUNTERTOP MOUNTED, DUPLEX RECEPTACLE, WITH GROUND FAULT CIRCUIT INTERRUPTER, NEMA 5-20R
	20A, 125V, ABOVE COUNTERTOP MOUNTED, DUPLEX RECEPTACLE, WITH ARC FAULT CIRCUIT INTERRUPTER, NEMA 5-20R
	20A, 125V, ABOVE COUNTERTOP MOUNTED, QUADRUPLEX RECEPTACLE NEMA 5-20R
	20A, 125V, ABOVE COUNTERTOP MOUNTED, QUADRUPLEX RECEPTACLE, WITH GROUND FAULT CIRCUIT INTERRUPTER, NEMA 5-20R
	20A, 125V, ABOVE COUNTERTOP MOUNTED, QUADRUPLEX RECEPTACLE, WITH ARC FAULT CIRCUIT INTERRUPTER, NEMA 5-20R
	20A, 125V, LEGRAND FLOORBOX (OR EQUAL), CONFIGURABLE PER CLIENT REQUIREMENT, SEE NOTE ON PLAN, NEMA 5-20R
	20A, 125V, FLOORBOX, DUPLEX RECEPTACLE, 5-20R
	20A, 125V, FLOORBOX, QUADRUPLEX RECEPTACLE, 5-20R
	20A, 125V, LEGRAND FLOORBOX (OR EQUAL), CONFIGURABLE PER CLIENT REQUIREMENT, SEE NOTE ON PLAN, WITH ARC FAULT CURRENT INTERRUPTER NEMA 5-20R
	20A, 125V, FLOORBOX, DUPLEX RECEPTACLE, WITH ARC FAULT CURRENT INTERRUPTER, 5-20R
	20A, 125V, FLOORBOX, QUADRUPLEX RECEPTACLE, WITH ARC FAULT CURRENT INTERRUPTER, 5-20R
	20 A 125V CONTROLLED DUPLEX RECEPTACLE
	20 A 125V CONTROLLED QUAD RECEPTACLE
J	WALL / CEILING MOUNTED JUNCTION BOX. PROVIDE EXTENSION WHEN USED FOR FLEX CONNECTION. VERIFY LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. WEATHERPROOF WHEN INSTALLED OUTSIDE. PROVIDE DISCONNECT SWITCH WHERE INDICATED OR REQUIRED BY CODE.
	30A, 125V, 1Ø, 2P, 3W TWIST-LOCK RECEPTACLE. NEMA L5-30R
	30A, 250V, 1Ø, 2P, 3W TWIST-LOCK RECEPTACLE. NEMA L6-30R

CABLE AND CONDUIT

NEUTRAL HOT GROUND P5C1-2	WHERE NO WIRE SIZE SHOWN, DEFAULT CIRCUIT HOMERUN INDICATES PANEL ORIGIN AND CIRCUIT NUMBER WITH: • 3/4" CONDUIT, (1) #12 HOT PER CIRCUIT, (1) #12 NEUTRAL PER CIRCUIT AND (1) #12 GROUND PER CIRCUIT. • PROVIDE ADDITIONAL (1) #12 ISOLATED GROUND FOR DEVICES INDICATED WITH "IG"
P5C1-7 3/4"C,1#8,#8N,#10G	DESIGNATED CIRCUIT HOMERUN INDICATES PANEL ORIGIN, CIRCUIT NUMBER AND CONDUIT AND WIRING SIZES. REFER TO PANEL SCHEDULES AS WELL
J	SHORT RADIUS ELBOW TURN-UP WITH INSIDE THREAD AND PLUG FLUSH WITH FLOOR. PROVIDE EXTENSION UP TO CAST JUNCTION BOX 6" A.F.F. U.O.N. ARROWS DENOTES CONNECTION TO DESIGNATION EQUIPMENT
	WIRING IN CONDUIT CONCEALED IN CEILING OR WALL.
	WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB WITH WIRE PULL AND CAP
CSB	CABLE SUPPORT BOX
	TELECOM CABLE TRAY, 8" WIDE X 2" DEEP, UON. COORDINATE LOCATION WITH DUCTWORK, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND LIGHT FIXTURES.
	WALL MOUNTED MULTI-SERVICE ALUMINUM RACEWAY COMPLETE WITH RECEPTACLES AND OUTLETS AS INDICATED ON THE PLANS. MOUNTED AT 42" AFFL TO BOTTOM OF RACEWAY, ANODIZED SATIN FINISH. AS PER LEGRAND DS4000 OR APPROVED EQUAL. FURNISH SAMPLE FOR ARCHITECT APPROVAL PRIOR TO ORDERING

TELECOM SYMBOLS

	MULTI-SERVICE 6-GANG FLOOR BOX WITH (2) DUPLEX RECEPTACLES, 20A (REFER TO WIRING DEVICES SYMBOLS) (1) GANG DATA, (1) GANG SPARE. INSTALL WITH FLOOR FINISH INSERT. AS LEGRAND EVOLUTION EFB6 SERIES OR APPROVED EQUAL
'X'	RJ45 DATA OUTLET ('x' DENOTES NUMBER OF GANGS)
	TELEPHONE OUTLET
	COMBO DATA/TELEPHONE OUTLET

FIRE ALARM

SD	SMOKE DETECTOR
CM	CARBON MONOXIDE DETECTOR
SCM	COMBO SMOKE / CARBON MONOXIDE DETECTOR

ABBREVIATIONS

A	AMPERES
AC	AIR CONDITIONER
AFFL	ABOVE FINISHED FLOOR LEVEL
AFI	ARC FAULT INTERRUPTION
AHU	AIR HANDLER UNIT
AIC	AMPERE INTERRUPTING CAPACITY RATING
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISH GRADE
C	CONDUIT
CATV	CABLE ANTENNA TELEVISION SYSTEM
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CALIFORNIA ELECTRICAL CODE
CKT	CIRCUIT
CO	CARBON MONOXIDE SENSOR
C.O.	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
(E)	EXISTING
EF	EXHAUST FAN
EL	ELEVATOR
E.C.	ELECTRICAL CONTRACTOR
E, EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FIBO	FURNISHED AND INSTALLED BY OTHERS
FCU	FAN COIL UNIT
FL	FLOOR
FLA	FULL LOAD AMPERES
FSD	FIRE SMOKE DAMPER
G.C.	GENERAL CONTRACTOR
GRD	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
IG	INSOLATED GROUND
INT	ADDRESSABLE FIRE ALARM RELAY MODULE
JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILS
kVA	KILOVOLT AMPERES
kW	KILOWATT
KX	KITCHEN EXHAUST
LBS	LOAD BREAK SWITCH
LTG	LIGHTING
LV	LOW VOLTAGE
LVR	LOW VOLTAGE RELAY
MGB	MAIN GROUNDING BAR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CONTROL PANEL
M.C.	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MGB	MAIN GROUND BAR
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
(N)	NEW
N	NEUTRAL
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFG ASSOC.
NRTL	NATIONAL RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
OC	ON CENTER
P	POLES
PB	PULL BOX
PH, Ø	PHASE
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PWR	POWER
PWCP	PRE-WIRED CONTROL PANEL
RFAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL
RGB	REFERENCE GROUND BAR
RGS	RIGID GALVANIZED STEEL
SB	SWITCHBOARD
SCE	SOUTHERN CALIFORNIA EDISON
SF	SUPPLY FAN
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SW	DISCONNECT SWITCH
SWGR	SWITCHGEAR
T/C	TIME CLOCK
TC	TERMINAL CABINET
TEL	TELEPHONE
TGB	TELECOM GROUND BAR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TX	TOILET EXHAUST FAN
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLTAMPS
VAV	VARIABLE AIR VOLUME BOX
VD	VIDEO DISPLAY
VFD	VARIABLE FREQUENCY DRIVE
VT	VAPORTIGHT
W	WATTS
WM	WALL MOUNTED
WP	WEATHERPROOF
WT	WATERTIGHT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

SCOPE OF WORK

ELECTRICAL DRAWINGS FOR THE SHELL PLANS OF A NEW BAKERY CAFE.

ELECTRICAL SHEET INDEX

COORDINATION NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL EQUIPMENT LOCATIONS AND CONDUIT RUNS SUPPLIED AND/OR INSTALLED UNDER THIS SECTION SHALL BE INSTALLED TO AVOID CONFLICTS OR OBSTRUCTIONS TO OTHER TRADES.
2. CONTRACTOR SHALL PROVIDE ALL NECESSARY PULL BOXES, VERTICAL SUPPORT BOXES, AND CONDUIT OFFSETS REQUIRED TO ACCOMPLISH THE ABOVE NOTED COORDINATION AT NO ADDITIONAL COST TO THE OWNER, WHETHER OR NOT INDICATED ON PLANS. ALL VERTICAL SUPPORT BOXES, PULL BOXES, ETC. SHALL BE INSTALLED WHERE REQUIRED TO FACILITATE PULLS AND AT CODE REQUIRED INTERVALS, AT A MINIMUM.
3. REFER TO DIVISION 21, 22 AND 23 DRAWINGS AND SCHEDULES FOR WORK TO BE FURNISHED AND INSTALLED BY DIVISION 26 THAT ARE NOT SPECIFICALLY IDENTIFIED ON THE ELECTRICAL DRAWINGS. CONTRACTOR TO MAKE AN ALLOWANCE FOR PROVIDING 120V TO ALL BUILDING AUTOMATION NETWORK MANAGER CONTROL PANELS AND 24V NETWORK POWER SUPPLIES AS REQUIRED.
4. ALL PLUMBING AND HVAC (DIVISION 21, 22 AND 23) EQUIPMENT COMPONENTS (FANS, COMPRESSORS, PUMPS, VFDs, MOTOR CONTROLLERS, STARTERS AND DISCONNECTS, ETC) THAT ARE REQUIRED AS PART OF THE SYSTEM, AND THAT ARE NOT FACTORY PRE-WIRED, ARE TO BE SUPPLIED (BY DIVISION 21, 22 OR 23 U.O.N) AND INSTALLED BY DIVISION 26 U.O.N. IF THE SUPPLIED VFD OR EQUIPMENT CONTROLLER IS NOT LOCATED WITHIN SIGHT OF A MOTOR AND IS NOT SUITABLE FOR USE AS A DISCONNECTING MEANS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE MOTOR DISCONNECT, AT THE MOTOR LOCATION, THAT IS PROPERLY SIZED AND IS SUITABLE FOR USE AS A DISCONNECTING MEANS FOR ALL MOTORS AND/OR EQUIPMENT SUPPLIED WITH MOTORS.
5. THE LOCATION OF DIVISION 27 AND 28 POWER REQUIREMENTS IS SHOWN FOR REFERENCE ONLY. REFER TO DIVISION 27 AND 28 DRAWINGS FOR EXACT LOCATIONS. MOUNT POWER ADJACENT TO DIVISION 27 AND 28 BOXES. WHERE POWER IS REQUIRED IN THE CEILING, PROVIDE 60" OF SLACK TO ALLOW FINAL SERVICE LOCATION TO BE COORDINATED WITH DIVISION 27 AND DIVISION 28 DEVICE LOCATIONS. COORDINATE THE INSTALLATION WITH THE APPROPRIATE TRADES AND THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.
6. REFER TO DIVISION 27 AND DIVISION 28 DRAWINGS FOR CONDUIT, BOXES AND CABLE TRAY REQUIREMENTS.
7. ALL MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION IN ACCORDANCE WITH CALIFORNIA ELECTRICAL CODE SECTION 430.31, 430.32.

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture. Design. Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant

120 DEGREEZ MEP ENGINEERING
San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

GENERAL NOTES

Project Number: 6360
Drawn By: EU
Issue Date: **02/12/2024**
Sheet Number: **E0.00**
DPM: - DM: - CPM: -

ELECTRICAL SPECIFICATIONS

1. THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS SHALL BE CONSIDERED AS PART OF THIS SPECIFICATION.

2. ALL WORK TO BE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE MOST RECENT EDITION OF NATIONAL ELECTRIC CODE.

3. FURNISH ALL MATERIALS, EQUIPMENT, LABOR, & SERVICES REQUIRED FOR THE INSTALLATION OF ALL ELECTRICAL WORK & AS REQUIRED TO PROVIDE A COMPLETE & OPERABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS.

   MATERIALS SHALL BE NEW W/ MANUFACTURERS NAME PRINTED THEREON & UNDERWRITERS LABORATORY LISTED. THE SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE W/ THE DRAWINGS AND/OR SPECIFICATIONS. SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE W/ THE DRAWINGS AND/OR SPECIFICATIONS.

4. SUBMIT MATERIAL LISTS AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE OWNER'S REPRESENTATIVE FOR REVIEW. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND SHALL BEAR THE STAMP OF THE ELECTRICAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THEM. LACK OF SUCH CONTRACTOR'S APPROVAL WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY THE OWNER.

5. CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP & MATERIALS, USUAL WEAR EXCEPTED, & SHOULD ANY SUCH DEFECTS DEVELOP W/IN A PERIOD OF ONE YEAR ACCEPTANCE OF THE BLDG. BY THE YEAR, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS & DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.

6. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN THE SPECIFICATIONS, THAT CAN BE LEGITIMATELY & REASONABLE BE INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED & INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.

7. NOTIFY ARCHITECT IMMEDIATELY OF POSSIBLE CONFLICTS WITH STRUCTURE, MECHANICAL, OR OTHER FEATURES. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS & ARRANGEMENT OF INDICATED EQUIP., CONDUIT, OUTLETS, OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT COST TO OWNER.

8. CONTRACTOR SHALL FILE PLANS WITH AND OBTAIN APPROVALS FROM MUNICIPAL AGENCIES. ALL PERMITS AND CERTIFICATES OF INSPECTION SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

   PERTINENT CERTIFICATES SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING.

   ANY FEES ASSOCIATED WITH CONSTRUCTION AND INSPECTION SHALL BE BORNE BY THE CONTRACTOR IN ORDER TO DELIVER TO THE OWNER A FINISHED BUILDING, READY FOR OCCUPANCY AND 100% OPERATION.

9. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS.

   HE SHALL CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF. HE SHALL ASCERTAIN CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED, INCLUDING THE HANDLING OF MATERIALS, SECURITY AND LIMITING FIELD DIMENSIONS. FURTHER, THIS CONTRACTOR SHALL PROVIDE FIELD VERIFICATION OF LOCATION OF POINTS OF CONNECTION TO LANDLORD'S ELECTRICAL AND TELEPHONE EQUIPMENT AND DISTANCE FROM LEASED SPACE.

   ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS DISCOVERED AS A RESULT OF THE AFOREMENTIONED FIELD SURVEY, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, PRIOR TO COMMENCING ANY WORK. ANY ADDITIONAL COSTS RESULTING FROM CONTRACTOR'S FAILURE TO DO SO SHALL BE HIS RESPONSIBILITY AND SHALL BE BORNE BY HIM.

10. ANY DEVIATION FROM PLANS WITHOUT PRIOR APPROVAL OF THE ARCHITECT SHALL BE CAUSE FOR THE REJECTION OF MATERIALS AND/OR METHODS, AND ANY COST INCURRED TO CORRECT SUCH DEVIATION TO THE SATISFACTION OF THE A/E SHALL BE BORNE BY THE CONTRACTOR.

11. THE SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR, BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORSEEN HAD PROPER EXAMINATION BEEN MADE.

12. ANY COSTS INCURRED DUE TO LACK OF COOPERATION AMONG THE TRADES SHALL BE BORNE BY THE CONTRACTOR.

13. CONTRACTOR SHALL SUBMIT 6 COPIES OF SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR APPROVAL FOR ALL EQUIPMENT AND DEVICES INSTALLED.THERE WILL BE NO DRAW UNTIL SHOP DRWGS. HAVE BEEN SUBMITTED & REVIEWED BY ARCH./ENGR..

14. THE EQUIPMENT ROUGH-INS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY SUBSTITUTE OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUB-SEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.

15. PLAN & INSTALL WORK IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, & KEEP OPENINGS & PASSAGEWAYS CLEAR.

16. ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES; AN ACCURATE RECORD OF ALL WORK AS ACTUALLY INSTALLED.

    UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS AUTHORIZED, SHALL TURN OVER TO THE OWNER'S REPRESENTATIVE A RECORD SET OF PRINTS SHOWING THESE CHANGES.

17. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK HEREIN SPECIFIED.

    ALL OPENINGS THROUGH STRUCTURALLY SUPPORTED SLABS MUST BE COREBORED, SLEEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEEVES MUST EXTEND AT LEAST 2" AFF.

    ALL SLEEVES, OPENINGS, ETC. THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO RETAIN FIRE RATING.

18. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIR.

    HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE SECURED TO THE BUILDING STRUCTURE, NOT TO PIPING OR DUCTWORK.

    ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE RUN IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES AND SEPARATED AT LEAST 3" FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES.

19. EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED AND LEFT IN PERFECT WORKING ORDER.

    TEST ALL WIRES AND CABLES INSTALLED UNDER THIS CONTRACT WITH A 1,000 VOLT MEGOHM METER. ANY READINGS THAT ARE LOWER THAN REQUIRED BY GOOD PRACTICE OR APPLICABLE CODES, PROMPTLY REPLACE THE MATERIALS OR EQUIPMENT INVOLVED.

    SHOULD TESTING REVEAL ANY OTHER DEFECTS, PROMPTLY CORRECT SUCH DEFECTS AND RERUN TESTS UNTIL THE ENTIRE INSTALLATION IS SATISFACTORY IN ALL RESPECTS.

20. ALL ITEMS IN THE NOTES, SCHEDULES AND LEGEND MAY NOT NECESSARILY APPEAR ON THESE DRAWINGS.

21. TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR THE EQUIPMENT HEREIN INSTALLED SHALL BE GIVEN TO THE OWNER PRIOR TO ACCEPTANCE OF THE BUILDING FOR OCCUPANCY.

22. GUARANTEE:

    CONTRACTOR IS TO GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE PROJECT BY THE OWNER. IT IS UNDERSTOOD BY HIS ACCEPTANCE 0F THE CONTRACT THAT THIS CONTRACTOR WILL MAKE GOOD ANY AND ALL WORK WHICH IN ANY WAY HAS BECOME DEFECTIVE AS TO THE QUALITY OF MATERIALS AND WORKMANSHIP FOR ANY CAUSE OTHER THAN ORDINARY WEAR AND TEAR.

    FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

23. THE CONTRACTOR, BEFORE FINAL ACCEPTANCE BY THE OWNER WILL BE GRANTED, SHALL CLEAN ALL LIGHTING FIXTURES, DEVICE PLATES, SERVICE FITTINGS AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. HE SHALL INSURE THAT ALL DIR23ECTORIES ARE IN PLACE WITH COMPLETED OR REVISED SCHEDULES AND ALL IDENTIFICATIONS AND MARKINGS OF EQUIPMENT, CABLES AND OTHER ITEMS ARE COMPLETED.

24. THIS CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY VOLTAGE OF MECHANICAL EQUIPMENT AND FLUORESCENT FIXTURE BALLASTS, PRIOR COMMENCING ANY WORK.

    NO REMOVALS SHALL BE MADE WITHOUT OWNER'S APPROVAL. ALL EXISTING EQUIPMENT, MATERIALS, ETC. THAT ARE NOT TO BE REUSED SHALL BE REMOVED COMPLETELY AND DISPOSED OF BY THIS CONTRACT0R.

25. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY, PRIOR TO ANY INDIVIDUAL CIRCUIT'S INSTALLATION, TO VERIFY WITH ALL OTHER TRADES CONCERNED THAT THE CIRCUIT WITH DEVICES AS DRAWN IS ADEQUATE IN SIZE AND MAKE-UP FOR THE MECHANICAL AND/OR KITCHEN EQUIPMENT TO BE INSTALLED. IF ANY CONFLICT IN VOLTAGE, PHASE OR LOAD IS ENCOUNTERED WHICH WOULD ALTER THE CIRCUIT SIZE, THIS CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER IMMEDIATELY. FAILURE TO DO SO SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT CIRCUIT CHANGE DIRECTLY UPON THE CONTRACTOR.

26. REFER TO THE MECHANICAL DRAWINGS FOR THE LOCATION OF THER-MOSTATS, UNITS AND OTHER SPECIAL EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, JUNCTION BOXES AND DISCONNECT SWITCHES, THERMOSTAT AND CONTROL WIRING.

27. THIS CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY POWER AND SHALL PAY THE COST FOR THE UTILITY CONNECTION AND SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE TEMPORARY WORK AND FOR THE REMOVAL OF SAME.

    CONTRACTOR SHALL PAY ALL UTILITY CHARGES IN CONNECTION WITH THE TEMPORARY POWER.

    CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL POWER EQUIPMENT USED ON THE PREMISES DURING CONSTRUCTION.

28. GENERAL SCOPE OF WORK

    CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, SUPPLIES, EQUIPMENT AND FEES REQUIRED TO COMPLETELY INSTALL, TEST AND PLACE THE HEREIN SPECIFIED EQUIPMENT, COMPONENTS, CONTROLS, AND SYSTEMS IN SERVICE.

    COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEMS INCLUDING ALL PANELS AND COMPLETE BRANCH CIRCUIT WIRING SYSTEM

    TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR CONSTRUCTION

    COMPLETE LIGHTING FIXTURE INSTALLATION

    COMPLETE UTILITY MOTOR WIRING SYSTEM (EXCEPT AS NOTED)

    COMPLETE TELEPHONE CONDUIT SYSTEM INCLUDING CONDUIT FROM POINT OF CONNECTION TO UTILITY COMPANY SERVICE AND ALL TERMINAL DEVICES, BOXES, CONDUIT, PLATES, ETC.

    PROVISIONS FOR FIRE ALARM SYSTEM AS REQUIRED BY CODE

    WIRING AND FINAL CONNECTION TO ALL SIGNS AND GRAPHICS

    TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION

    TESTING OF ALL ELECTRICAL EQUIPMENT

    WARRANTY OF ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF PROJECT CLOSE-OUT

29. ELECTRICAL SERVICE

    PROVIDE ELECTRICAL AS INDICATED ON THE DRAWING.

    ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR THE POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR

    CLOSELY COORDINATE ENTIRE INSTALLATION WITH THE POWER COMPANY.

    CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY FOR INSTALLATION OF METERING.

    THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SUPPLY TERMINALS FROM THE POWER COMPANY &/OR MALL/SHOPPING CENTER POWER SOURCE. THE SERVICE EQUIPMENT SHALL MEET OR EXCEED THIS RATING PER N.E.C.

30. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL TELEPHONE UTILITY COMPANY FOR TELEPHONE SERVICE TO THE SPACE, CONDUIT SYSTEM FOR TELEPHONE DISTRIBUTION TO THE LEASED PREMISES SHALL BE PROVIDED WHERE REQUIRED FOR UTILITY COMPANY WIRES.

    COORDINATE INSTALLATION OF TELEPHONE WORK AND INSTALL ALL CONDUIT FOR TELEPHONE SYSTEM.

    OUTLET BOXES SHALL BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE.

    PROVIDE INTERIOR TYPE 4-D PLYWOOD 24" X 24" TO SERVE AS TELEPHONE TERMINAL BOARD.

31. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

    ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, STATE AND NEC CODES AND REGULATIONS.

    PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE A PART OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL CODES.

    MAIN GROUNDING SYSTEM SHALL BE SIZED TO CONFORM WITH SECTION 250, TABLE 250-94 OF THE NATIONAL ELECTRICAL CODE. PROVIDE CONDUIT TO PROTECT GROUND WIRE FROM DAMAGE TO AN AREA 6 FT. ABOVE FLOOR.

    MAKE ALL JOINTS AND CONNECTIONS OF THE CONDUIT SYSTEM TIGHT TO MAINTAIN CONTINUITY OF MECHANICAL AND ELECTRICAL GROUND THROUGHOUT ENTIRE SYSTEM.

    GROUND ALL 3 WIRE RECEPTACLES TO THE OUTLET BOXES.

    GROUND NEUTRAL FROM THE TRANSFORMER CONNECTED TO WATER LINE.

    GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL NON-METALLIC CONDUIT.

32. IF REQUIRED: PROVIDE DRY-TYPE TRANSFORMER WHICH SHALL BE ENCLOSED, VENTILATED TYPE WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWING AS MANUFACTURED BY SQUARE-D OR EQUAL.

    TRANSFORMER SHALL HAVE A MINIMUM OF 150 DEGREE, CLASS H INSULATION AND A MINIMUM OF (4) 2-1/2% TAPS BELOW AND (2) 2-1/2% TAPS ABOVE RATED PRIMARY VOLTAGE.

    SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY

33. LIGHTING FIXTURES:

    THE CONTRACTOR SHALL PROVIDE A NEW LIGHTING FIXTURE OF THE TYPE SPECIFIED FOR EACH LIGHTING OUTLET SHOWN WITH COMPLETE LAMPS OR TUBES. ALL FIXTURES SHALL BE HUNG AND MOUNTED IN PLACE, PROPERLY WIRED, TESTED AND LEFT READY FOR OPERATION.

    CONTRACTOR SHALL VERIFY LOCATION OF ALL PARKING LOT LIGHTS, MONUMENT SIGNS, AND PYLON SIGNS ON INDIVIDUAL SITE PLAN.

34. PANELBOARDS AND BREAKERS SHALL BE BY SQUARE-D OR EQUAL

    PANEL SHALL BE CIRCUITED SP THAT THE LOAD IS DISTRIBUTED EVENLY ACROSS ALL THREE PHASES.

    PANELBOARDS SHALL CONTAIN A TYPEWRITTEN DIRECTORY WITH A PLASTIC COVER AFFIXED TO THE INSIDE DOOR.

    ALL PANELBOARDS AND EMERGENCY LIGHTING DISCONNECT SWITCHES SHALL BE LABELED WITH RESPECT TO THEIR TITLE, VOLTAGE AND PHASE; I.E. PANEL "A" 120/208/3Ø. LABEL SHALL BE PHENOLIC PLASTIC WITH WHITE LETTERS AND BLACK BACKGROUND. LABELS SHALL BE PERMANENTLY FIXED TO THE EQUIPMENT.

35. LIGHTING PANELBOARD SHALL BE 3-PHASE, 4-WIRE DISTRIBUTED PHASE TYPE W/SOLID NEUTRAL GROUND LUG, GROUND BUS AND ALL BREAKERS SHALL BE BOLTED TYPE, THERMAL MAGNETIC WITH ALL TWO OR THREE POLE BREAKERS HAVING COMMON TRIP.

    ALL BREAKERS SHALL BE BOLTED TYPE, THERMAL MAGNETIC WITH ALL TWO OR THREE POLE BREAKERS HAVING COMMON TRIP. CIRCUIT BREAKERS SHALL BE RATED FOR MINIMUM 10,000 AMP SYMMETRICAL SHORT CIRCUIT CURRENT AT 120/208V.

    CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH SERVICE.

36. WIRING DEVICES:

    WALL SWITCHES, SINGLE POLE, DOUBLE POLE, AND THREE WAY SHALL BE GENERAL DUTY, FLUSH, TOGGLE SWITCHES; SPECIFICATION GRADE, 20A, 120/277V, WITH SCREW TERMINALS: MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS & SEYMORE, OR LEVITRON.

    GENERAL DUTY DUPLEX RECEPTACLES SHALL BE 2-POLE, 3-WIRE GROUNDING TYPE, SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R UNLESS OTHERWISE INDICATED. MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS & SEYMORE, OR LEVITRON.

    GROUND FAULT INTERRUPTER RECEPTACLE SHALL BE GENERAL DUTY, DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTER, DOWNSTREAM RECEPTACLES ON A SINGLE CIRCUIT, GROUNDING TYPE UL-RATED CLASS A, GROUP 1, 20A, 120V, 60 HZ; WITH SOLID-STATE GROUND FAULT SENDING AND SIGNALING; WITH 5 MILLIAMPERES GROUND-FAULT TRIP LEVEL; IN NEMA 5-15R CONFIGURATION. MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS & SEYMORE, OR LEVITRON.

    DUPLEX ISOLATED GROUND TYPE RECEPTACLE SHALL BE 2-POLE, 4-WIRE, 15A STRAIGHT BLADE DEVICE WITH SEPARATE ISOLATED GROUND AND BUILDING GROUND CONNECTIONS, IN NEMA 5-15R CONFIGURATION, AS MANUFACTURED BY HUBBELL IG-5362.

    WIRING DEVICE ACCESSORIES INCLUDING ALL WALL PLATES SHALL BE PROVIDED AT EACH DEVICE. WALL PLATES SHALL BE SAME COLOR AS DEVICE AND MANUFACTURED AS A COMPANION TO THE DEVICE.

    ANY ELECTRICAL OUTLETS WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. PROVIDE EITHER INDIVIDUAL GFI DEVICES OR GFI CIRCUIT BREAKERS, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OR SCHEDULES.

    PROVIDE A 120 VOLT RECEPTACLE WITHIN 25 FEET OF ALL HVAC EQUIPMENT ON THE ROOF.

    ALL EXTERIOR RECEPTACLES AND DEVICES SHALL BE WEATHERPROOF

    ELECTRICAL DEVICES, DISCONNECT SWITCHES, ETC. SHALL BE SUPPORTED INDEPENDENT OF & ISOLATED FROM EQUIP. VIBRATIONS.

37. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NON-FUSED AS REQUIRED BY CODE OR SHOWN ON DRAWINGS. SWITCHES SHALL BE SQUARE-D, GENERAL ELECTRICAL, OR EQUAL.

    FURNISH AND INSTALL DUAL ELEMENT CURRENT LIMITING FUSES OF TYPE AND AMPICITY DESIGNED TO PROTECT SYSTEMS AGAINST AVAILABLE SHORT CIRCUIT FAULT CURRENT.

38. COORDINATE ALL EQUIP. CONNECTIONS W/EQUIP. SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ADDITION FUSED DISCONNECT SWITCHES & CONTROLS, IF OVERCURRENT PROTECTION OR CONTROLS ARE NOT INTEGRAL W/UNITS.

    ALL ELECTRICAL EQUIP. ON ROOF OR OUTSIDE THE BLDG. SHALL BE IN NEMA-3R OR NEMA-4 ENCLOSURES.

    ALL EQUIP. SHALL BE FUSE SIZED PER MANUF. RECOMMENDATIONS & U.L. APPROVAL.

    ALL VIBRATING EQUIP. CONN. SHALL BE SEAL TYPE FLEX, 30" MAX.

    STARTERS AND RELATED WIRING SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. OVERLOAD UNITS SHALL BE INSTALLED AS PER NAME PLATE DATA ON EQUIPMENT. EXCEPT FOR SUCH ITEMS AS ARE NORMALLY SUPPLIES WITH STARTERS INSTALLED (HVAC UNITS, DISHWASHERS ETC.). AT THEIR POINT OF MANUFACTURE, ALL STARTERS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR WILL MOUNT ALL SUCH STARTERS, AS DIRECTED, FURNISHING SUPPORTING STRUCTURES WHERE NECESSARY.

    ALL REMOTE EQUIPMENT ON ROOF OR GROUNDS SHALL HAVE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT. FURNISH FUSED DISCONNECTS AS REQUIRED BY N.E.C.

    FULL LOAD AMPS (FLA) SIZES ARE BASED ON SPECIFIED EQUIP. DATA. CONTRACTOR SHALL VERIFY NAMEPLATE FLA OF EQUIP. SUPPLIED & COORDINATE ACCORDINGLY PER EQUIP. SUPPLIERS RECOMMENDATIONS.

39. CONDUIT SHALL BE STANDARD STEEL, RIGID, IMC OR EMT (THIN WALL) ACCORDING TO LOCAL CODE.

    ALL CONDUIT & J-BOXES SHOWN SHALL BE CONCEALED WHEN POSSIBLE. WHEN NOT POSSIBLE, CONDUIT & J-BOXES MAY BE SURFACE MOUNTED W/PERMISSION OF THE ARCHITECT.

    INSULATE ALL CONDUIT PASSING THROUGH WALK-IN COOLER, FILL AROUND CONDUIT WITH DUCT-IN SEAL WHERE IT PASSES THROUGH COOLER WALL OR CEILING.

    ALL EXTERIOR CONDUIT FOR WIRING SHOULD BE MINIMIZED BY ROUTING IN CEILING SPACE. NO EXTERIOR CONDUIT WILL BE ACCEPTED, UNLESS OTHERWISE NOTED.

    PAINTING OR ELECTRICAL CONDUITS, ETC., IF REQUIRED, WILL BE BY THE GENERAL CONTRACTOR.

40. RACEWAYS SHALL BE SURFACE METAL TYPE OF THE SIZE AND CHANNEL REQUIRED FOR SERVICE, CONSTRUCTED OF GALVANIZED STEEL WITH SNAP-ON COVERS, WITH 1/8" MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8" O.C. PROVIDE FITTINGS INDICATED WHICH MATCH AND MATE WITH RACEWAY. FINISH WITH MANUFACTURER'S STANDARD PRIME COATING SUITABLE FOR PAINTING.

41. OUTLET BOXES AND COVERS SHALL BE ONE PIECE, GALVANIZED STEEL JUNCTION BOXES, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE AND SIZE.

42. ALL FEEDERS & BRANCH CIRCUITS SHALL BE THHN/TWHN (90° C). DESIGN IS BASED ON COPPER CONDUCTORS & ALL BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRING SHALL BE IN CONDUIT OR MC TYPE.

    ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES.

    ADDITIONAL CONDUCTOR SPECIFICATIONS:

    #10 AND SMALLER - SOLID WITH SINGLE BRAID.

    #8 AND LARGER - STRANDED WITH AT LEAST DOUBLE BRAID.

    MINIMUM WIRE SIZE SHALL BE #12 (#14 MAY BE USED FOR CONTROLS)

    WIRES SHALL BE COLOR CODED IN KEEPING WITH NEC STANDARDS

    PROVIDE IMC FOR FEEDER CONDUIT WHERE INSTALLED ABOVE GRADE. FITTINGS SHALL BE STEEL, THREADED, SET SCREW TYPE W/INSULATED THROATS. FURNISH EMT CONDUIT OP BX OR MC FOR INTERIOR WIRING NOT SUBJECT TO PHYSICAL DAMAGE, MIN. CONDUIT SIZE SHALL BE 1/2 UNLESS SPECIFICALLY NOTED OTHERWISE. CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE & SHALL RUN PARALLEL OR PERPENDICULAR TO BLDG. WALLS OR CEILING. PCV SCHEDULE 40 CONDUIT MAY BE USED FOR UTILITY FEEDERS WHERE BURIED UNDERGROUND. SEE ADDITIONAL RATES ON ELECTRICAL SERVICE SCHEMATIC.

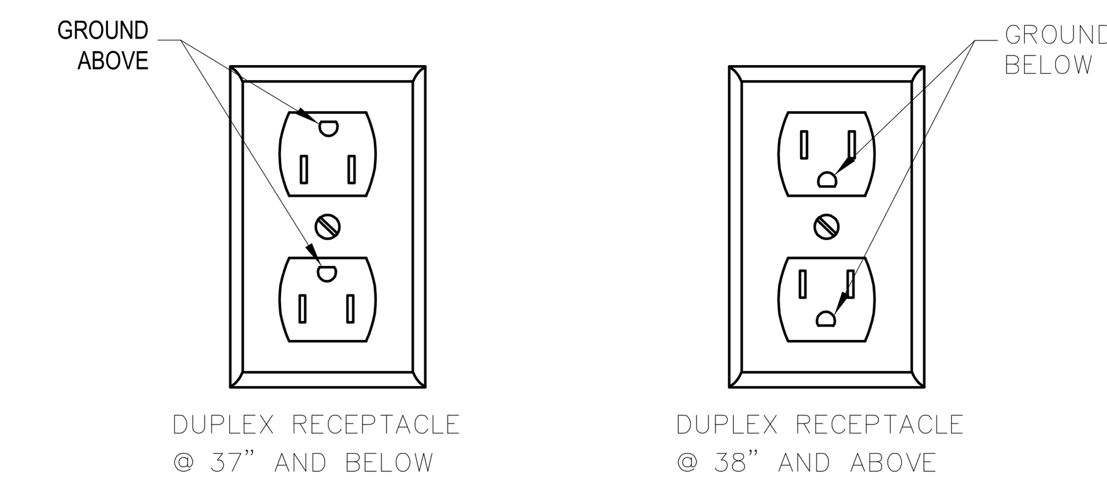
    A SEPARATE GREEN INSULATED EQUIP. GROUNDED CONDUCTOR (BOND) SHALL BE INSTALLED W/IN EVERY RACEWAY.

    WIRING SHOWN IN THE PANEL SCHEDULE IS THE MINIMUM REQUIRED. RUNS IN EXCESS OF 90'-0" (ONE-WAY) SHALL BE SIZED PER THE N.E.C. MAXIMUM 2% V.D.

43. TEST ELECTRICAL SYSTEM FOR SHORT CIRCUITS & MEGGAR TEST FEEDERS & BRANCH CIRCUIT WIRING. INSURE LOW IMPEDANCE GROUND PATH SYSTEM.

44. FINALLY: IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

    THE LOCATION OF THE RECEPTACLES AND FIXTURES SHOWN ON THE DRAWING IS APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY DEVICES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COSTS.



1 RECEPTACLE GROUND LOCATION DETAIL
NOT TO SCALE

ARTICLE 300 — GENERAL REQUIREMENTS FOR WIRING METHODS AND MATERIALS (300.5)

TABLE 300.5 MINIMUM COVER REQUIREMENTS, 0 TO 1000 VOLTS, NOMINAL, BURIAL IN MILLIMETERS (INCHES)

TYPE OF WIRING METHOD OR CIRCUIT

LOCATION OF WIRING METHOD OR CIRCUIT	COLUMN 1 DIRECT BURIAL CABLES OR CONDUCTORS		COLUMN 2 RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT		COLUMN 3 NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS		COLUMN 4 RESIDENTIAL BRANCH CIRCUITS RATED 120 VOLTS OR LESS WITH GFCI PROTECTION AND MAXIMUM OVERCURRENT PROTECTION OF 20 AMPERES		COLUMN 5 CIRCUITS FOR CONTROL OF IRRIGATION AND LANDSCAPE LIGHTING LIMITED TO NOT MORE THAN 30 VOLTS AND INSTALLED WITH TYPE UF OR IN OTHER IDENTIFIED CABLE OR RACEWAY	
	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.
ALL LOCATIONS NOT SPECIFIED BELOW	600	24	150	6	450	18	300	12	150	6
IN TRENCH BELOW 50 mm (2 in.) THICK CONCRETE OR EQUIVALENT	450	18	150	6	300	12	150	6	150	6
UNDER A BUILDING	0	0	0	0	0	0	0	0	0	0
	(IN RACEWAY OR TYPE MC OR TYPE MI CABLE IDENTIFIED FOR DIRECT BURIAL)						(IN RACEWAY OR TYPE MC OR TYPE MI CABLE IDENTIFIED FOR DIRECT BURIAL)		(IN RACEWAY OR TYPE MC OR TYPE MI CABLE IDENTIFIED FOR DIRECT BURIAL)	
UNDER MINIMUM OF 102 mm (4 in.) THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 152 mm (6 in.) BEYOND THE UNDERGROUND INSTALLATION	450	18	100	4	100	4	150	6	150	6
							(DIRECT BURIAL)		(DIRECT BURIAL)	
							100	4	100	4
							(IN RACEWAY)		(IN RACEWAY)	
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS	600	24	600	24	600	24	600	24	600	24
ONE- AND TWO-FAMILY DWELLING DRIVEWAYS AND OUTDOOR PARKING AREAS, AND USED ONLY FOR DWELLING-RELATED PURPOSES	450	18	450	18	450	18	300	12	450	18
IN OR UNDER AIRPORT RUNWAYS, INCLUDING ADJACENT AREAS WHERE TRESPASSING PROHIBITED	450	18	450	18	450	18	450	18	450	18

Notes:
1. Cover is defined as the shortest distance in millimeters (inches) measured between a point on the top surface of any direct-buried conductor, cable, conduit, or other raceway and the top surface of finished grade, concrete, or similar cover.
2. Raceways approved for burial only where concrete encased shall require concrete envelope not less than 50 mm (2 in.) thick.
3. Lesser depths shall be permitted where cables and conductors rise for terminations or splices or where access is otherwise required.
4. Where one of the wiring method types listed in Columns 1 through 3 is used for one of the circuit types in Columns 4 and 5, the shallowest depth of burial shall be permitted.
5. Where solid rock prevents compliance with the cover depths specified in this table, the wiring shall be installed in metal or nonmetallic raceway permitted for direct burial. The raceways shall be covered by a minimum of 50 mm (2 in.) of concrete extending down to rock.

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture. Design. Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant

120 DEGREEZ MEP ENGINEERING
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No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

CONSTRUCTION NOTES

Project Number: 6360
Drawn By: EU
Issue Date: **02/12/2024**
Sheet Number: **E0.01**
DPM: -   DM: -   CPM: -

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PB 2023.Q2.V2

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

1

ELECTRICAL SPECIFICATIONS

THESE SPECIFICATIONS ARE BASED UPON THE 2020 NEC. THE CODE(S) ADOPTED BY THE AUTHORITY HAVING JURISDICTION SUPERCEDE THE SECTIONS LISTED BELOW BUT ONLY IF THOSE REQUIREMENT(S) ARE MORE STRINGENT.

1. INTENT

1.1. THESE PLANS, AND ALL ASSOCIATED DOCUMENTS, ARE CONSIDERED TO BE CONTRACT DOCUMENTS AND AS SUCH, CANNOT BE AMENDED OR MODIFIED WITHOUT THE PRIOR WRITTEN CONSENT OF 120 DEGREEZ ENGINEERING.

1.2. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

1.3. ALL DRAWINGS ARE SCHEMATIC BY DESIGN AND THE REQUIRED INSTALLATION SHALL NOT BE LIMITED TO WHAT IS DEPICTED HEREIN. ALL APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM MUST BE INCLUDED IN THE CONTRACTORS BID AND WORK.

1.4. WHEREVER USED IN THESE DOCUMENTS THE WORD OR TERM "SHALL" IS TO BE INTERPRETED AS FOLLOWS: MANDATORY LANGUAGE AND IS WITHOUT EXCEPTION.

2. GENERAL

2.1. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID OR WORK. NO ALLOWANCES WILL BE MADE FOR EXISTING CONDITIONS OR THE CONTRACTORS FAILURE TO ACCOMMODATE EXISTING CONDITIONS ON ANY BID.

2.2. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CLARIFICATION OF ANY APPARENT CONFLICT OR INCONSISTENCY IN THE DRAWINGS, SPECIFICATIONS OR DESIGN PRIOR TO THEIR BID IN WRITING FROM THE ENGINEER. OTHERWISE THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY TO CORRECT (AT THEIR COST) ANY SUCH ITEMS AS NECESSARY TO MEET THE INTENT OF THESE DOCUMENTS AND ANY ADOPTED CODE OR NATIONAL STANDARD AS INTERPRETED BY THE ENGINEER.

2.3. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT EDITIONS OF THE NATIONAL ELECTRIC CODE (NEC), UBC., IBC, ICC, IECC AND ANY APPLICABLE CITY AND/OR STATE CODES AND ORDINANCES, THE AMERICANS WITH DISABILITIES ACT, E.P.A. REGULATIONS (INCLUDING EPACT 1992), ANSI STANDARDS, UL STANDARDS AS WELL AS ANY AND ALL UTILITY COMPANY REQUIREMENTS. THE FOREGOING CODES AND REGULATIONS ARE REQUIREMENTS AND ARE INCORPORATED IN THIS SPECIFICATION FOR THIS WORK BY REFERENCE. ALL INSTALLATIONS BY THE CONTRACTOR SHALL MEET LATEST ADOPTED CODES WITHOUT EXCEPTION.

2.4. THE CONTRACTOR SHALL COORDINATE AND PROVIDE INFORMATION AS REQUIRED TO ALL SERVING UTILITIES IN A TIMELY MANNER AND IS NECESSARY TO PROVIDE THE SERVICE REQUIRED AND MEET UTILITY REQUIREMENTS. IMMEDIATE COORDINATION WILL BE REQUIRED FOR MOST PROJECTS. FIELD COORDINATE ALL REQUIREMENTS PRIOR TO TRENCHING.

2.5. REFER TO ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL DRAWINGS AND/OR EQUIPMENT SUPPLIERS DRAWINGS AND SPECIFICATIONS FOR EXACT EQUIPMENT LOCATIONS, LOADS AND ADDITIONAL REQUIREMENTS. REPRESENTATIONS OF THE WORK SPECIFIC TO THE OTHER DISCIPLINES IS SHOWN ON THE ELECTRICAL DRAWINGS FOR CONVENIENCE ONLY AND SHALL NOT SOLELY BE RELIED UPON FOR THE PLACEMENT OF EQUIPMENT.

2.6. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL EQUIPMENT THEY SUPPLY. ALL EQUIPMENT SHALL BE INSTALLED STRICTLY PER MANUFACTURES RECOMMENDATIONS, THE LISTING OF THE EQUIPMENT AND ALL CODES. OTHERWISE THE CONTRACTOR ASSUMES RESPONSIBILITY (AT THEIR COST) TO CORRECT AND REMEDY ANY INSTALLATION NOT IN COMPLIANCE WITH THE MANUFACTURES RECOMMENDATIONS, LISTING(S) AND INTENTIONS AS INTERPRETED BY THE ENGINEER. SEE SECTION 2.3.

2.7. THE CONTRACTOR SHALL NOT ENGAGE IN THE RE-DESIGN OR "VALUE ENGINEERING" OF THIS PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM 120 DEGREEZ ENGINEERING AND THE OWNER. ALL DEVIATIONS FROM THESE DOCUMENTS ARE REQUIRED TO BE APPROVED OF IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION. THE ELECTRICAL CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY DEVIATION FROM THESE DOCUMENTS INCLUDING THE COST TO RE-DESIGN. ELECTRICAL CONTRACTOR, AT COMMENCEMENT OF WORK, ACCEPTS ALL REQUIREMENTS AND STIPULATIONS OUTLINED IN THE PROPOSAL PROVIDED BY 120 DEGREEZ ENGINEERING AND ACCEPTED BY THE PERSON IN RESPONSIBLE CHARGE OF THE PROJECT. ADDITIONALLY A DETAILED ACCOUNTING OF ANY DEVIATIONS MUST BE SUBMITTED TO 120 DEGREEZ ENGINEERING AND THE OWNER PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL.

2.8. ANY VARIANCE OR EXCEPTIONS TO THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING. INTERIM VERBAL APPROVALS WILL ONLY BE PROVIDED WHEN THE ENGINEER DETERMINES THIS TO BE JUSTIFIED AND MUST BE CONFIRMED IN WRITING TO BE FINAL. ROUTE ALL RFI's, AND RFC's VIA GENERAL CONTRACTOR AND THROUGH THE ARCHITECT.

2.9. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS, VARIANCES, AND APPROVALS, ETC. (AT THEIR COST) WHICH MAY BE REQUIRED FOR COMPLETION OF THIS WORK.

2.10. PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL LIGHT FIXTURES AND WIRING DEVICES: TO INCLUDE MOUNTING HEIGHT AND LOCATIONS. ALL CONFLICTS SHALL BE REPORTED TO THE ENGINEER/ARCHITECT. PRIOR TO ROUGH-IN. FAILURE TO COORDINATE WILL REQUIRE THE CONTRACTOR TO FIX ERRORS AT HIS COST.

2.11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AND SUPPORT FOR PROGRESS AND FINAL INSPECTIONS. THIS INCLUDES COMPLETE ACCESS TO ALL EQUIPMENT. ADDITIONALLY A COMPLETE SET OF SPARE FUSES FOR ALL FUSES USED AND A 10% SUPPLY OF ALL LIGHT BULBS PROVIDED IN FIXTURES (TO A MAXIMUM OF (1) CASE FOR EACH STYLE) SHALL BE PROVIDED TO THE OWNER AT FINAL INSPECTION.

3. RECONSTRUCTION (TO INCLUDE TENANT IMPROVEMENTS)

3.1. ALL RECONSTRUCTION OF EXISTING FACILITIES AND EQUIPMENT SHALL REQUIRE COMPLETE RENOVATION (MAKE GOOD AS NEW) FOR ALL EXISTING EQUIPMENT UPON WHICH WORK IS INCLUDE THESE FOLLOWING REQUIREMENTS:

3.1.1. VERIFICATION OF EXISTING SES GROUNDING COMPLIANCE WITH NEC ARTICLE 250.

3.1.2. VERIFICATION OF CABLE SIZE AND AMPACITY OF EXISTING FEEDERS AND BRANCH CIRCUITS WITH NEC TABLE 310.15.

3.1.3. VERIFICATION OF EQUIPMENT GROUNDING CONDUCTORS PER NEC TABLE 250.122 AND GROUNDING AND BONDING OF LINE SIDE EQUIPMENT PER NEC TABLE 250.66.

3.1.4. VERIFICATION OF GROUNDING ELECTRODE SYSTEMS, ALL SYSTEM BONDING JUMPERS AND MAIN BONDING JUMPERS PER NEC ARTICLE 250.

3.1.5. VERIFICATION OF THE INTEGRITY OF THE GROUNDING AND BONDING SYSTEM AND VERIFY COMPLIANCE WITH NEC 250.4.

3.1.6. EXISTING LIGHT FIXTURES TO BE REUSED MUST BE CLEANED, RE-LAMPED, AND RESTORED TO "LIKE NEW" CONDITION.

3.1.7. EXISTING PANEL BOARDS, SWITCH BOARDS, AND TRANSFORMERS WHICH ARE INCLUDED IN THIS PROJECT SHALL HAVE PREVENTATIVE MAINTENANCE PREFORMED TO INCLUDE VERIFICATION OF ALL TERMINATIONS AS WELL AS CLEANING AND INSPECTION.

3.1.8. VERIFY PROPER WORKING CONDITION OF ALL EXISTING EMERGENCY FIXTURES AND EXIT SIGNS. REPAIR OR REPLACE AS REQUIRED.

3.2. IN THE EVENT THAT INSPECTION REVEALS DISCREPANCIES AND/OR NON-COMPLIANCE, THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BEFORE MAKING ALL REQUIRED CORRECTIONS..

4. MATERIALS AND METHODS

4.1. THE USE OF ELECTRICAL METALLIC TUBING (EMT) IS ACCEPTABLE IN ACCORDANCE WITH NEC ARTICLE 358. EMT FITTINGS SHALL BE COMPRESSION TYPE OR SET SCREW TYPE. EMT SHALL BE PROVIDED WITH A AN ADDITIONAL COPPER GROUND WIRE SIZED PER NEC 250.122. MINIMUM TRADE CONDUIT SIZE SHALL BE 1/2". ALL HOME RUNS SHALL BE 3/4" TRADE SIZED EMT.

4.2. ALL CONDUITS INSTALLED UNDERGROUND SHALL HAVE PVC COATED G.R.C. ELBOWS NO EXCEPTIONS.

4.3. WHERE SYSTEMS FURNITURE IS INDICATED, THE MINIMUM NEUTRAL CONDUCTOR SIZE SHALL BE #10 A.W.G. COPPER.

4.4. CONDUCTORS SHALL BE 600V COPPER (98% CONDUCTIVITY). MINIMUM LINE VOLTAGE WIRE SIZE IS #12 A.W.G. ALL CONDUCTORS SHALL HAVE 90 DEGREE RATED INSULATION.

4.5. CONDUCTORS #6 AND SMALLER SHALL HAVE THHN/THHW-2 INSULATION. #4 AND LARGER SHALL HAVE XHHW-2 INSULATION.

4.6. ALL WIRING DEVICES SHALL BE MINIMUM 20 AMP SPECIFICATION GRADE. HUBBELL, LEVITON, AND PASS-SEYMORE ARE ACCEPTABLE EQUIVALENTS. ALL OUTLETS, SWITCHES, SPECIAL RECEPTACLES AND GROUND FAULT PROTECTION DEVICES SHALL BE PERMANENTLY MARKED WITH ENGRAVED COVER PLATES, STATING PURPOSE, CIRCUIT AND SOURCE PANEL AND VOLTAGE.

4.7. COVER PLATES SHALL BE NYLON (IVORY) IN OFFICE/COMMERCIAL/OR LIVING AREAS, AND GALVANIZED STEEL IN WAREHOUSE/INDUSTRIAL/MANUFACTURING AREAS OR AREAS SUBJECT TO PHYSICAL ABUSE. INDUSTRIAL COVERS ARE REQUIRED FOR ALL MOUNTING APPLICATIONS.

4.8. ALL RACEWAYS AND CABLES ARE TO BE CONCEALED EXCEPT TO SURFACE MOUNTED PANELS AND AT THE CEILING OF EXPOSED STRUCTURE AREAS. CONDUITS WILL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.

4.9. THE USE OF MC CABLE IS ACCEPTABLE IN ACCORDANCE WITH NEC ARTICLE 330, BUT LIMITED TO USE FOR BRANCH CIRCUITS ONLY. MC CABLE MAY NOT BE USED FOR HOME RUNS, WHERE SUBJECT TO PHYSICAL DAMAGE, IN DIRECT BURIAL (IN EARTH OR CONCRETE) SITUATION UNLESS UL LISTED AND SUITABLE FOR THE APPLICATION. MC CABLE MAY NOT BE RUN EXPOSED.

4.10. P.V.C. CONDUIT MAY BE USED ONLY IN OR UNDER SLABS AND IN CONCRETE OR MASONRY WALLS. INSTALLATIONS BELOW GRADE SHALL BE BURIED 24" (MIN) DEEP OR GREATER.

4.11. FUSES SHALL BE BUSSMAN, LITTLE FUSES, GOULD-SHAWMUT OR ENGINEER APPROVED EQUAL.

4.12. CONDUCTORS UP TO AND INCLUDING #10 AWG SHALL BE SOLID WITH CONTINUOUSLY COLOR CODED INSULATION. COLOR CODING SHALL COMPLY WITH THE NEC AND/OR LOCAL CODES OR POLICIES.

4.13. CONDUCTORS #8 AWG AND #6 AWG SHALL BE STRANDED WITH CONTINUOUS COLOR CODED INSULATION. COLOR CODING SHALL COMPLY WITH THE NEC AND/OR LOCAL CODES OR POLICIES.

4.14. SPLICING OF GROUNDING ELECTRODE CONDUCTORS, WATER AND BUILDING STEEL BONDS SHALL ONLY BE ALLOWED WITH EXOTHERMIC WELDING.

4.15. NEW CONDUCTORS SHALL BE CONTINUOUS AND WITHOUT SPLICE EXCEPT AT JUNCTION OR PULL BOXES.

4.16. ALL CONDUIT SUPPORT SYSTEMS SHALL BE INSTALLED ON THE BUILDING STRUCTURE. UNISTRUT, BEELINE, OR CADDY MOUNTING SYSTEMS ARE ACCEPTABLE. NO CONDUIT OR CABLE WILL BE SUPPORTED BY WIRES UTILIZED TO SUPPORT SUSPENDED CEILINGS OR BY "SLACK" WIRES USED AT LUMINAIRES OR AIR TERMINALS. PERFORATED STRAPS OR OTHER PIPING AND CONDUIT STRAPS ARE NOT ACCEPTABLE SUPPORTS.

4.17. ACCEPTABLE MANUFACTURES FOR SWITCH GEAR RELATED COMPONENTS ARE: SQUARE D, CHALLENGER, GENERAL ELECTRIC, SIEMENS, AND CUTLER-HAMMER.

4.18. CONDUCTORS SHALL BE COLOR CODED FOR BRANCH CIRCUITS IN ACCORDANCE WITH THE NEC AND LOCAL REQUIREMENTS. CONDUCTORS SHALL BE IDENTIFIED AS FOLLOWS EXCEPT AS AMENDED BY LOCAL AMENDMENTS:

- 120/240 VOLT SINGLE PHASE: UNGROUNDED CONDUCTORS A-PHASE; BLACK, B-PHASE; RED, GROUNDED CONDUCTOR; WHITE.
- 120/208 VOLT THREE PHASE GROUNDED AND UNGROUNDED SYSTEMS: UNGROUNDED CONDUCTORS, A-PHASE; BLACK, B-PHASE; RED, C-PHASE; BLUE, GROUNDED CONDUCTOR; WHITE (WHERE USED).
- 120/240 VOLT THREE PHASE GROUNDED AND UNGROUNDED SYSTEMS: UNGROUNDED CONDUCTORS, A-PHASE; BLACK, B-PHASE; ORANGE, C-PHASE; BLUE, GROUNDED CONDUCTOR; WHITE.
- 277/480 VOLT THREE PHASE GROUNDED AND UNGROUNDED SYSTEMS: UNGROUNDED CONDUCTORS, A-PHASE; BROWN, B-PHASE; ORANGE, C-PHASE; YELLOW, GROUNDED CONDUCTOR; GRAY.
- EQUIPMENT GROUNDING OR BONDING CONDUCTORS SHALL BE GREEN OR BARE. ISOLATED GROUNDING CONDUCTORS SHALL BE GREEN WITH A YELLOW STRIPE.

4.19. INSTALLATIONS FOR EQUIPMENT SUBJECT TO VIBRATION, SUCH AS MOTORS AND TRANSFORMERS, SHALL HAVE CONDUCTORS INSTALLED IN 'SEAL TIGHT' OR LIQUID TIGHT FLEXIBLE CONDUIT WITH GASKETED CONNECTORS AND FITTINGS.

4.20. PROVIDE RUBBER VIBRATION DAMPENING PADS FOR ALL MOTORS AND TRANSFORMERS, AND ALL VIBRATION PRODUCING EQUIPMENT.

4.21. ALL CONDUITS, RACEWAYS AND CABLES, REGARDLESS OF VOLTAGE, SHALL HAVE AN INSULATED BOND WIRE, SIZED BY EITHER NEC TABLE 250.66 (LINE SIDE) OR 250.122 (LOAD SIDE), WHERE APPLICABLE, INSTALLED AND PROPERLY TERMINATED WITH THE PHASE CONDUCTORS. CONDUIT IS NOT AN ACCEPTABLE GROUNDING OR BONDING METHOD PER THESE DOCUMENTS.

4.22. ALL DIMMERS AND DIMMER SWITCHES SHALL BE OF THE SLIDE TYPE AND RATED FOR CONTINUOUS DUTY OF 1000 WATTS MINIMUM. THE CONTRACTOR SHALL VERIFY IN THE FIELD, THE ACTUAL LOAD OF THE LIGHTING (SPECIFICALLY, BUT NOT LIMITED TO, TRACK LIGHTING) AND INSTALL DIMMERS OF PROPER WATTAGE.

4.23. ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL CIRCUIT NUMBERS AT JUNCTION, OUTLET, SWITCH OR PULL BOXES WITH PERMANENT MARKER ON THE INSIDE OF THE BOX COVER OR TRIM PLATE.

5. SUBMITTALS

5.1. SUBMIT 6 SETS OF SHOP DRAWINGS AND SAMPLES FOR ALL EQUIPMENT PRIOR TO ORDERING AND IN A TIMELY MANNER. SUBMITTALS SHALL INCLUDE LIGHT FIXTURES (INCLUDING LIGHT POLES), SWITCHBOARDS, PANELBOARDS, STARTERS, HVAC ELECTRICAL EQUIPMENT AND TRANSFORMERS. DESIGN BUILD ARE EXEMPT FROM SUBMITTAL REQUIREMENTS.

5.1.1. SHOP DRAWINGS SHALL INCLUDE LAYOUT DIMENSIONS AND IDENTIFICATION OF SPECIFIC EQUIPMENT FOR INSTALLATION, MINIMUM NEC CLEARANCES (E.G. 110.26) SHALL BE INDICATED.

5.1.2. THE CONTRACTOR SHALL INCLUDE COMPARISON DATA AND SAMPLES FOR BOTH THE SUBSTITUTE AND SPECIFIED ITEMS WHEN SUBSTITUTIONS ARE PROPOSED. THE CONTRACTOR REMAINS RESPONSIBLE TO PROVIDE THE ORIGINALLY SPECIFIED EQUIPMENT IN ACCORDANCE WITH THE ORIGINAL DELIVERY DATE (AT THEIR COST) WHEN SUBSTITUTIONS ARE NOT APPROVED.

5.2. THE CONTRACTOR SHALL PROVIDE PROOF OF PERFORMANCE BOND WITH HIS INITIAL SUBMITTALS (E.G. SHOP DRAWINGS) TO INCLUDE A WARRANTY FOR THE WARRANTY PERIOD (2 YEARS).

5.3. THE CONTRACTOR SHALL SUBMIT COMPLETE AND ACCURATE "AS BUILT" DRAWING TO THE OWNER AND ENGINEER WITHIN 2 WEEKS OF OWNER ACCEPTANCE. PROVIDE (4) SETS OF BLUE LINES OR REPRODUCIBLE OF SAID PLANS.

5.4. PROVIDE A LETTER TO THE OWNER AND ENGINEER CERTIFYING ALL EQUIPMENT AND TERMINATION'S ARE TORQUED PER THE LISTING OF THE EQUIPMENT. THIS CERTIFICATION SHALL BE EXECUTED BY A LICENSED CONTRACTOR, AND WRITTEN CERTIFICATION PROVIDED ON COMPANY LETTERHEAD.

5.5. PROVIDE COPIES OF ALL MANUFACTURER/SUPPLIER WARRANTIES AND GUARANTEES TO THE OWNER WITHIN 2 WEEKS OF FINAL ACCEPTANCE BY THE OWNER.

6. TESTING

6.1. SUBMIT A COPY OF ALL TEST RESULTS FOR THE ELECTRICAL POWER DISTRIBUTION SYSTEM AS A COMPLETE PACKAGE TO THE OWNER AND ENGINEER. PACKAGE MUST PROVIDE SPECIFIC VALUES OF TEST DATA OBTAINED AGAINST ACCEPTANCE CRITERIA (SIMPLE PASS/FAIL ALONE IS INADEQUATE). TESTING PERSONAL SHALL BE CERTIFIED BY INTERNATIONAL ELECTRIC TESTING ASSOCIATION (NETA) OR NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET).

6.2. GROUNDING SYSTEM FALL-OF-POTENTIAL (RESISTANCE TO GROUND) SHALL PROVIDE LESS THAN 25 OHMS RESISTANCE TO GROUND AND LESS THAN .5 OHMS POINT TO POINT BETWEEN THE MAIN GROUNDING ELECTRODE SYSTEM AND MAJOR ELECTRICAL EQUIPMENT FRAMES, SYSTEM NEUTRAL, AND/OR DERIVED NEUTRAL POINTS. (REF IEEE STANDARD 81-1991 AND 142). SHALL NOT BE PERFORMED WITHIN 96 HOURS OF RAIN FALL.

6.3. OVER POTENTIAL (HIGH POTENTIAL) TESTING ON BUSSES GREATER THAN 1000 AMPS (OR MODIFICATION OF SERVICES) GREATER THAN 400 AMPS AND EACH PHASE TO GROUND IN ACCORDANCE WITH SWITCH GEAR / SWITCH BOARD MANUFACTURES RECOMMENDATIONS FOR ONE MINUTE. THE INSULATION SHALL WITHSTAND THE OVER POTENTIAL TEST VOLTAGE APPLIED.

6.4. GROUND-FAULT PROTECTION SYSTEM SHALL BE TESTED USING PRIMARY INJECTION FOR PICK UP TESTS. RELAY TIMING SHALL BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

6.5. PROVIDE TWO COPIES OF ACCEPTANCE OF FIRE ALARM SYSTEM BY LOCAL FIRE AUTHORITY.

6.6. INSULATION RESISTANCE (MEGGER) (AC AND DC (1000v) FOR ONE MINUTE) SHALL PROVIDE 50 MEGOHMS OR GREATER. TESTING MAY BE PERFORMED BY CONTRACTOR, WITH WRITTEN CERTIFICATION BY LICENSED CONTRACTOR.

7. WARRANTY

7.1. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FURNISHED BY THEM UNDER THIS CONTRACT FOR A PERIOD OF (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS DEVELOPING DURING THE WARRANTY PERIOD TRACEABLE TO MATERIALS OR WORKMANSHIP SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.

7.2. THE ENGINEER AND OWNER RETAIN THE RIGHT TO REQUIRE REMOVAL AND INSTALLATION OF ANY MATERIAL OR EQUIPMENT NOT IN COMPLIANCE WITH THE PROVISIONS AND STANDARDS OF THESE DRAWINGS AND SPECIFICATIONS. NO CLAIM FOR ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK PERFORMED IN THIS REGARD.

7.3. THE CONTRACTOR AGREES TO TRANSFER ALL MANUFACTURERS/SUPPLIERS WARRANTIES AND GUARANTEES TO THE OWNER. THIS INCLUDES COMPLETION OF ALL DOCUMENTATION FOR THE MANUFACTURER/SUPPLIER.

8. SERVICE

8.1. PROVIDE AND INSTALL NEW SERVICE SECTION AS SHOWN ON DRAWINGS. SES SHALL BEAR U.L. LABEL, HAVE COPPER BUSSING - SILVER PLATED AND AMPERAGE RATING AS SHOWN ON DRAWINGS. METERING AND PRIMARY PULL SECTION SHALL BE BARRIERED FROM OTHER WORK AND APPROVED BY BOTH THE LOCAL UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION.

8.2. GROUND FAULT PROTECTION SHALL BE PROVIDED FOR SERVICES RATED 150 VOLTS TO GROUND OR GREATER ON ALL SERVICE DISCONNECTS GREATER THAN 1000A.

8.3. GROUND FAULT PROTECTION ON MAINS AND SUB-MAINS MUST HAVE AUDIBLE/VISIBLE ALARMS.

8.4. ENCLOSURES SHALL MEET UL & PUBLIC UTILITY REQUIREMENTS BARRIERED BETWEEN SECTIONS, LINE AND LOAD, BOTH BARRIERED.

8.5. NO COVERS GREATER THAN 1/3 HEIGHT OF EQUIPMENT.

8.6. FULL SIZED NEUTRAL BUSSING AND NON-TAPERED BUSSING WILL BE STANDARD. ALL SPACE WILL BE FULLY BUSSED FOR FUTURE. ALL BUSSING WILL BE PHYSICALLY BARRIERED.

8.7. ENCLOSURES SHALL MEET UL & PUBLIC UTILITY REQUIREMENTS BARRIERED BETWEEN SECTIONS, LINE AND LOAD, BOTH BARRIERED.

8.8. ALL SERVICES SHALL BE PROVIDED WITH A PERMANENTLY ATTACHED, ENGRAVED PLATE SHOWING S.E.S. BUSSING TO INCLUDE ALL TORQUE VALUES FOR PREVENTATIVE MAINTENANCE PURPOSES.

8.9. ALL SERVICES SHALL BE LISTED FOR FRONT ACCESSIBILITY ONLY, WHERE LOCATED ON WALLS, ALL OTHERS SHALL BE FRONT.

8.10. ALL SERVICE DOORS SHALL BE HINGED AND LOCKABLE.

8.11. NEW SERVICE INSTALLATIONS FOR MULTI TENANT FACILITIES WITH MULTIMETER SERVICES, SHALL HAVE ALL UNDERGROUND CONDUITS INSTALLED IN THE APPROPRIATE SERVICE SECTION. DO NOT INSTALL CONDUITS WHERE THERE EXISTS A POSSIBILITY OF IMPROPER CABLE ROUTING TO OTHER SECTIONS.

9. DISTRIBUTION

9.1. PANELBOARDS (EXISTING): ADD CIRCUIT BREAKERS AS REQUIRED FOR CIRCUITING. MATCH PRECISELY BRAND AND A.I.C. RATING. TANDEM AND PIGGY-BACK BREAKERS ARE NOT PERMITTED. ALL LUGS OR CONNECTORS TO BE 90 DEGREE C RATED.

9.2. PANELBOARDS (NEW): TO BE RATED AS SHOWN ON DRAWINGS. PROVIDE NEMA ENCLOSURES AS REQUIRED BY CODE. CUTOUT BOXES TO BE ENLARGED FOR DOUBLE NEUTRALS AND LUGS AND SHALL BE SIZED TO ACCOMMODATE ISOLATED GROUND BUSS AND NORMAL GROUND BUSS. ALL TERMINATIONS OR CONNECTORS TO BE RATED 75 DEGREE CENTIGRADE MINIMUM.

9.3. CIRCUIT BREAKERS WILL BE SWITCH RATED AND AMBIENT COMPENSATED FOR ALL CIRCUITS. PROVIDE SWITCHED NEUTRALS ON ALL CIRCUIT BREAKERS FEEDING CLASS 1 AND CLASS 2 AREAS WITH NEUTRALS. GFCI ON CIRCUITS WITH NEUTRALS TO DEVICES ABOVE CLASSIFIED AREAS. ALL LIGHTING PANELS/CIRCUIT BREAKERS SHALL BE RATED FOR CONTINUOUS DUTY.

9.4. ALL EQUIPMENT (PANELS, DISCONNECT SWITCHES, STARTERS, ETC.) WILL BE MARKED WITH BLACK ENGRAVERS STOCK TAGS EMBOSSED WITH 1/4" HIGH LETTERS DESCRIBING EACH ITEM. CONDUCTORS WILL BE MARKED AT ALL TERMINATION AND JUNCTION POINTS (PANELS, JUNCTION BOXES, SPLICES, ETC.) WITH LABELS BEARING THE PANEL AND CIRCUIT NUMBER WHICH FEEDS EACH CONDUCTOR (PER NEC 210.4, 300.3).

9.5. ALL PANELBOARDS WILL HAVE TYPED DIRECTORY CARDS IDENTIFYING ALL CIRCUITS AND SPACES REVISED, IF NECESSARY, FOR THIS WORK. EXISTING PANEL/PANELBOARDS SHALL HAVE EACH EXISTING CIRCUIT TRACED AND VERIFIED. UPDATE PANEL DIRECTORY AS NEEDED.

9.6. TRANSFORMERS 15 KVA AND ABOVE SHALL BE 150 DEGREE CENTIGRADE TEMPERATURE RISE ABOVE 40 DEGREE CENTIGRADE AMBIENT. ALL INSULATING MATERIALS TO BE IN ACCORDANCE WITH NEMA ST20-1972 STANDARDS FOR A 220 DEGREE C. UL COMPONENT RECOGNIZED INSULATION SYSTEM. SINGLE PHASE TRANSFORMERS 15 KVA THROUGH 167 KVA, AND THREE PHASE TRANSFORMERS THROUGH 112.5 KVA SHALL BE DESIGNED SO THEY CAN BE EITHER FLOOR OR WALL MOUNTED. THE TRANSFORMER SHALL BE LISTED BY UNDERWRITERS LABORATORY FOR THE SPECIFIED TEMPERATURE RISE.

9.7. LABEL ALL PANELS/TRANSFORMERS/DISCONNECTS WITH "WARNING" - ELECTRICAL EQUIPMENT - DANGER - QUALIFIED PERSONNEL ONLY TO OPERATE AND OPEN EQUIPMENT.

9.8. ALL ELECTRICAL EQUIPMENT INCLUDING SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS SHALL BE MARKED IN ACCORDANCE WITH NEC ARTICLE #110.16 FOR FLASH HAZARD. (REFERENCE NFPA #70E-2000 AND ANSI #Z535.4-1998).

9.9. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK, HORSEPOWER RATED, NEMA 1 INDOOR, NEMA 3R GASKETED, (4X) NEMA 12, OR NEMA 7 AS APPLICABLE WITH CLASS RK-1 BUSSMAN FUSES AND REJECTION CLIPS, SIZED OR AS SHOWN ON DRAWINGS. PROPER DISCONNECTS PER N.E.C. WILL BE PROVIDED FOR EACH PIECE OF ELECTRICAL EQUIPMENT.

9.10. MANUAL MOTOR STARTERS WITH THERMAL OVERLOADS WILL BE PROVIDED FOR MOTORS 1/2 HP TO 1 HP. SQUARE 'D' CLASS 2510, 2511, 2512 OR EQUAL, AMBIENT COMPENSATED AS REQUIRED.

9.11. MAGNETIC MOTOR STARTERS WITH THERMAL OVERLOADS, (2) AUXILIARY CONTACT SWITCHES, INTERNAL LINE VOLTAGE TO 24 VOLT TRANSFORMER (250VA. MIN) WITH PROPER PRIMARY/SECONDARY PROTECTION, AMBIENT COMPENSATED, GREEN RUNNING LIGHT, HAND-OFF-AUTO, ACROSS THE LINE STARTERS TO 25HP. WILL BE PROVIDED WITH EACH MOTOR AS SHOWN ON THE DRAWING (ONE HORSEPOWER TO 25 H.P.).

9.12. ALL PANELBOARDS SHALL HAVE HINGED, LOCKABLE COVERS. ALSO SEE SECTION 7.4.

10. LUMINAIRES

10.1. FURNISH AND INSTALL ALL LUMINAIRES COMPLETE WITH LAMPS, WHIPS AND ACCESSORIES. ALL RECESSED LUMINAIRES WILL BE RATED FOR USE IN ANY CEILING APPLICATIONS AND BE THERMALLY PROTECTED.

10.2. MOUNTING TYPE AND VOLTAGE OF LUMINAIRES IS THE RESPONSIBILITY OF THE CONTRACTOR. (4) EARTHQUAKE CLIPS WILL BE INSTALLED ON EACH FIXTURE MOUNTED IN GRID OR FLANGE TYPE CEILINGS. FLUORESCENT FIXTURE LENSES WILL BE 100% ACRYLIC, .125" THICK MINIMUM.

10.3. ALL LUMINAIRES TO BE INSTALLED IN SYMMETRICAL MANNER FREE FROM LIGHT LEAKS AND DIRTY LENSES OR REFLECTORS.

10.4. ALL LAY-IN LUMINAIRES IN ACOUSTICAL CEILING SYSTEMS WILL BE INSTALLED PER ASTM STANDARDS C635, C635M, C636, C636M, AND UBC STANDARD 25-2 VERIFY WITH LOCAL BUILDING AUTHORITY.

10.5. SUPPORT LUMINAIRES PER UBC-1507 WITH TWO LOOSE SIZE 9 WIRES TO STRUCTURES ON OPPOSITE CORNERS AND 2 TAUGHT SIZE 9 WIRE TO STRUCTURES AT CORNERS OR TO GRID WITHIN 3" OF FIXTURE. ALL H.I.D. OR FLUORESCENT LUMINAIRES WILL HAVE GREATER THAN .9 POWER FACTOR BALLASTS.

11. TELEPHONE SYSTEM

11.1. PROVIDE AND INSTALL A COMPLETE SYSTEM OF EMPTY RACEWAYS (WITH PULL STRING). PROVIDE REQUIRED/REQUESTED INFORMATION TO TELEPHONE COMPANY PRIOR TO INSTALLATION.

12. DATA/INFORMATION SYSTEMS

12.1. PROVIDE AND INSTALL A COMPLETE SYSTEM OF RACEWAYS (CABLE TRAYS, J-HOOKS, CONDUIT SLEEVES) OF PREFERABLY OPEN CONSTRUCTION WITH PULL LINE. RACEWAYS TO BE CONTINUOUS.

13. FIRE ALARM SYSTEM

13.1. PROVIDE AND INSTALL A COMPLETE AND WORKING FIRE ALARM SYSTEM, POWER LIMITED BY NEC DEFINITION. ALL WIRING TO BE CLASS "A" OR "B" WITH DEVICES AND CONDUCTORS TO BE U.L., F.M., OR C.S.A. LISTED AND APPROVED (LABELS ON EQUIPMENT).

13.2. ALL WIRING TO BE #14 A.W.G. CU., STRANDED, 105 DEGREE INSULATED, PLENUM RATED. INSTALLED IN CONDUIT OR RACEWAY WITH SIX (6) FEET SPACING BETWEEN OUTPUT/INPUT PER N.F.P.A.

13.3. SYSTEM INSTALLATION AND DEVICES WILL BE IN ACCORDANCE WITH ALL PERTINENT AND THE MOST STRINGENT REQUIREMENTS (ONLY POWER LIMITED SYSTEMS WILL BE ACCEPTED) OF:

13.3.1. NATIONAL FIRE PROTECTION AGENCY (NFPA) NFPA 70 - NATIONAL ELECTRICAL CODE
13.3.2. NFPA 72
13.3.3. NFPA 71 - CENTRAL STATION SIGNALING
13.3.4. ARS TITLE 26, CHAPTERS 2-3 (ARIZONA STATE FIRE CODE)
13.3.5. ADA AND ARIZONA HANDICAPPED REGULATIONS
13.3.6. INTERNATIONAL CONSTRUCTION BUILDING AND FIRE CODES
13.3.7. WORK SHALL BE INSTALLED BY UL CERTIFIED INSTALLERS

13.4. DO NOT POSITION SMOKE DETECTORS WITHIN 36" OF ANY AIR HANDLING GRILLES (SUPPLY OR RETURN) OR WITHIN 12" OF FACILITY LIGHTING FIXTURES.

13.5. ALL DEVICE BACK BOXES TO BE MOUNTED FLUSH, PERPENDICULAR TO FINISH WALLS AND CEILING SURFACES USING STANDARD "TRADE" MOUNTING HARDWARE.

13.6. CONTRACTOR WILL COMPLY WITH PROJECT SPECIFICATIONS, AND SUPPLY SHOP DRAWINGS, CUTS, SAMPLES, ETC. TO THE ENGINEER WITHIN 5 DAYS OF CONTRACT AS REQUIRED.

13.7. SYSTEM MONITORED AT ACM, U.L. APPROVED MONITORING STATION LOCATED IN CITY OF PROJECT.

13.8. EXTEND EXISTING SYSTEM TO NEW DEVICES. LOADS ON EACH ZONE, OR RUN TO BE CALCULATED (RESULTS TO ENGINEER) PRIOR TO INSTALLATION. ADDITIONAL RUNS, ZONES, CONTROL CARDS, ETC., REQUIRED FOR FACP/FAANN TO BE INCLUDED IN BID.

13.9. GAMEWELL IS AN ACCEPTABLE MANUFACTURER.

13.10. ALL SPRINKLER SYSTEMS WITH GREATER THAN 100 HEADS SHALL HAVE MINIMUM 4 ZONE CLASS B FIRE ALARM CONTROL PANEL WITH AUTO DIALER. (UNLESS COMPLETE CLASS A FIRE ALARM SYSTEM IS INDICATED ON PLANS). SPRINKLER SYSTEMS WITH LESS THAN 100 HEADS REQUIRE ONLY CONNECTION TO WATER FLOW AND TAMPER SWITCH. (UNLESS OTHERWISE NOTED OR INDICATED)

14. ELEVATORS

14.1. ALL INSTALLATIONS AND EQUIPMENT SHALL COMPLY WITH N.E.C. ARTICLE 620 AND ASME/ANSI STANDARDS A17.1.

14.2. SPECIFIC REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:

14.2.1. A SEPARATE BRANCH CIRCUIT WITH DISCONNECT (CAPABLE OF BEING LOCKED IN THE OPEN POSITION, LOCATED IN THE MACHINE ROOM)(BRADY NO. 2AF98 OR EQUAL.) PROVIDED FOR EACH ELEVATOR CAR FOR LIGHTS, FANS AND/OR ACCESSORIES.

14.2.2. HVAC SYSTEMS SHALL BE PROVIDED WITH SEPARATE BRANCH CIRCUIT. (CAPABLE OF BEING LOCKED IN THE OPEN POSITION LOCATED IN THE MACHINE ROOM) (BRADY NO. 2AF98 OR EQUAL.) HVAC TAPS WITH OTHER UNITS).

14.2.3. A SEPARATE BRANCH CIRCUIT FOR EQUIPMENT ROOM LIGHTING AND GFCI PROTECTED OUTLET (REQUIRED).

14.2.4. DEDICATED BRANCH CIRCUITS FOR HOIST WAY PIT LIGHTING AND GFCI OUTLET (REQUIRED). MINIMUM LIGHTING SHALL BE 4'-0" FLUORESCENT STRIP, (2) LAMPS AND WIRE GUARD.

14.2.5. NO CONDUITS, PIPES, DUCTS OR OTHER RACEWAY SYSTEMS SHALL PASS INTO OR THROUGH THE ELEVATOR EQUIPMENT ROOM OR HOIST WAY WHICH IS NOT DIRECTLY RELATED TO ELEVATOR OPERATION. (THIS DOES NOT INCLUDE REQUIRED SPRINKLER PIPING).

14.2.6. IF SPRINKLERS ARE PRESENT, IN EITHER OR BOTH ELEVATOR EQUIPMENT ROOM AND ELEVATOR HOIST WAY, THE CONTRACTOR SHALL PROVIDE A SHUNT TRIP MECHANISM AS A MEANS OF DISCONNECTING POWER TO THE AFFECTED ELEVATOR AND CONTROLLER PRIOR TO THE APPLICATION OF WATER. (SPRINKLER ACTIVATION OUTSIDE OF ELEVATOR EQUIPMENT ROOM OR HOIST WAY SHALL NOT DISCONNECT POWER).

14.2.7. INSTALL 165° RATE OF RISE HEAT DETECTORS IN THE ELEVATOR EQUIPMENT ROOM, TOP OF HOIST WAY AND BOTTOM OF HOIST WAY - ALL WITH AUX. CONTACTS FOR CONNECTION TO BOTH FIRE ALARM CONTROL PANEL AND SHUNT TRIP MECHANISM IN EQUIPMENT ROOM. ANY DETECTOR ACTIVATION WILL SHUNT TRIP THE EQUIPMENT.

14.2.8. INSTALL SMOKE DETECTORS IN ELEVATOR EQUIPMENT ROOM, TOP OF HOIST WAY AND BOTTOM OF HOIST WAY AND CONNECT TO FIRE ALARM CONTROL PANEL AS A MEANS OF PRELIMINARY SHUT DOWN WARNING, AND TO ELEVATOR CONTROLLER FOR RECALL FUNCTION.

14.2.9. PROVIDE SMOKE DETECTORS IN ALL ELEVATOR LOBBIES. PROVIDE AUXILIARY CONTACTS AT EACH SMOKE DETECTOR FOR CONNECTION TO ELEVATOR CONTROLLER FOR ALTERNATE FLOOR RECALL MODE DURING A FIRE.

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant

120 DEGREEZ MEP ENGINEERING
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No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

SPECIFICATIONS

Project Number: 6360
Drawn By: EU
Issue Date: 02/12/2024
Sheet Number: **E0.02**
DPM: - DM: - CPM: -

File Name: E0.02 SPECIFICATIONS.dwg Plotted By: Elaine 02/12/2024 [Mon 11:57am]

PB 2023.Q2.V2

File Name: E0.03 LIGHTING SCHEDULE.dwg Plotted By: Elaine 02/12/2024 [Mon 11:58am]

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS
Lx01		(1) LED	SINGLE HEAD POLE LIGHT	POLE	LITHONIA DSXO LED P3 30K 80CRI BLC3 MVOLT	69	120V 1P 2W
Lx02		(1) LED	SINGLE HEAD POLE LIGHT	POLE	LITHONIA DSXO LED P3 30K 80CRI RCCO MVOLT	69	120V 1P 2W
Lx03		(1) LED	SINGLE HEAD POLE LIGHT	POLE	LITHONIA DSXO LED P3 30K 80CRI LCCO MVOLT	69	120V 1P 2W
Lx04		(1) LED	4" CORNER MOUNT LINEAR LED LUMINAIRE	SURFACE	BARTCO LIGHTING BSW755-4-30-ID-H-SM-SN-AW	41.2	120V 1P 2W
Lx05		(1) LED	EXTERIOR GOOSE NECK LIGHT FIXTURE	WALL	TROY RLM LIGHTING LBLED14BB-3	17.32	120V 1P 2W
Lx06		(1) LED	EXTERIOR WALL SCONCE	WALL	WAC LIGHTING WS-W13718	10.8	120V 1P 2W
Lx07		(1) LED	EXTERIOR WALL MOUNTED LED WITH 90 MINUTE EMERGENCY BATTERY PACK	WALL	LUMINAIRE LED BLD 36IN 15W 30K MVOLT EMB310ST	14.7	120V 1P 2W
Lx08		(2) LED	EXTERIOR TRELLIS SCONCE	WALL	CAMMAN LIGHTING OW610-24-LN-30K	20	120V 1P 2W
Lx09		(1) LED	BOLLARD LIGHT	SURFACE	ZANEEN TETRA L9B134-3000K	28	120V 1P 2W

NOTE:

ALL FIXTURES (NO EXCEPTIONS) TO BE OBTAINED THROUGH NATIONAL ACCOUNT AT:

STANDARD ELECTRICAL SUPPLY COMPANY
#14 JEWEL DRIVE
WILMINGTON, MA 01887

CONTACT: PANERA ACCOUNT REPRESENTATIVE 800-370-5050 x3176

CITY LIGHTING
4307 WEST PAPIN ST.
ST. LOUIS, MO 63110
CONTACT: MIKE CANTY 314-534-1090

LIGHTING FIXTURES GENERAL NOTES

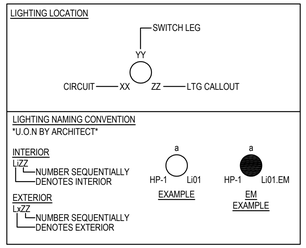
1. FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY CODES AND ORDINANCES.
2. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIF CATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE AND OPERABLE INSTALLATION.
3. PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CEILING CAVITY DEPTHS.
4. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.
5. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS AND/OR WALLS.
6. UPON INITIAL ENERGIZING OF ALL NEW FLUORESCENT LAMPS, A CONTINUOUS PERIOD OF 30 HOURS SHALL OCCUR PRIOR TO DE-ENERGIZING OF LAMPS, FOR MANUFACTURER REQUIRED LAMP BURN-IN AND MAXIMUM LAMP LIFE.
7. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS SUCH AS DIMMING SYSTEMS. FIXTURES. LAMPS, BALLAST(S), AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
8. PROVIDE CLEARANCES FROM COMBUSTIBLES A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH ARE NON-IC RATED.
9. PROVIDE A MINIMUM OF TWO (2) #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FLUORESCENT FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.
10. PROVIDE (4) SHEET METAL SCREWS, ONE INSTALLED IN EACH CORNER OF THE FIXTURE ATTACHING THE FIXTURE TO THE GRID. SCREWS SHALL NOT BE VISIBLE NOR IMPEDE INSTALLATION OF GRID PANELS.
11. PROVIDE DOOR-TO-FRAME AND LENS-TO-DOOR GASKETING, INVERTED LENS, AND FOOD SERVICE RATING FOR ALL FIXTURES LOCATED IN FOOD SERVICE AREAS.
12. LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THIS FIXTURE SCHEDULE AND PROJECT SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP AND BALLAST(S).
13. APPROVED LAMP MANUFACTURERS ARE OSRAM, SYLVANIA, GE, VENTURE (METAL HALIDE ONLY), AND PHILLIPS - NO EXCEPTIONS.
14. FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE UL AND CBM LABELS. ALL BALLASTS MUST CONFORM TO TITLE 24 REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.
15. FLUORESCENT FIXTURES TO BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLAST HARDWARE WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH NEC 410.73(G) AND CEC 30-308(4).
16. FLUORESCENT AND HIGH INTENSITY DISCHARGE BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.
17. FIXTURES, TRIMS, REFLECTORS. AND LAMPS SHALL BE CLEANED AND FREE FROM DIRT, DUST, LABEL ADHESIVE, AND FINGER PRINTS.
18. ALL LIGHT FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES. PROVIDE ALL REQUIRED SEISMIC BRACING FOR SUSPENDED LIGHT FIXTURES.
19. PROVIDE LIGHT FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.
20. COORDINATE FIXTURE AND TRIM FINISHES WITH ARCHITECT PRIOR TO ORDERING.
21. EACH DIMMED CIRCUIT SHALL CARRY A SEPARATE NEUTRAL CONDUCTOR WITH TRACER COLOR TO MATCH PHASE CONDUCTOR.

TANDEM WIRING NOTES:

22. PROVIDE MULTIPLE BALLASTS FOR DUAL-LEVEL SWITCHING AND WIRING (i.e. TANDEM) AS INDICATE ON THE PLANS.
23. LAMP FIXTURES TO BE TANDEM WIRED W/ ELECTRONIC BALLAST CONFIGURATION AS FOLLOWS:
    - 23.1. "M" DENOTES MASTER FIXTURE W/ 1-4 LAMP ELECTRONIC BALLAST TO SUPPLY 2-OUTSIDE LAMPS IN EACH THE "M" & "S" FIXTURE.
    - 23.2. "S" DENOTES SLAVE FIXTURE W/ 1-2 LAMP ELECTRONIC BALLAST TO SUPPLY 1-INSIDE LAMP IN EACH THE "M" & "S" FIXTURE.
    - 23.3. "O' DENOTES ODD FIXTURE (NO PAIR) W/ 1-2 LAMP &1-LAMP ELECTRONIC BALLAST.

SUBSTITUTION NOTES

1. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER, ARCHITECT AND THE ELECTRICAL ENGINEER. PRIOR TO CONSIDERING ANY SUBSTITIONS, THE FOLLOWING MUST BE PROVIDED (15) DAYS PRIOR TO BID TIME:
    - 1.1. COMPLETE AND OPERABLE SAMPLES OF SUBSTITUTIONS CONTAINING 120V CORD AND PLUG CONNECTIONS ALONG WITH CURRENT MANUFACTURER'S DATA SHEETS.
    - 1.2. PHOTOMETRIC STUDIES UTILIZING IES STANDARD PHOTOMETRIC DATA AND SOFTWARE FOR THIS PROJECT USING PROPOSED SUBSTITUTION FIXTURES TO ENSURE DESIGN INTENT IS MET. LUMEN OUTPUT AND LIGHT LOSS FACTOR VALUES TO BE DICTATED BY THE ELECTRICAL ENGINEER FOR THIS STUDY.
    - 1.3. WHEN APPLICABLE, PHOTOMETRIC STUDIES OF EMERGENCY LIGHTING APPLICATIONS ARE REQUIRED FOR AREAS IN THIS PROJECT UTILIZING PROPOSED SUBSTITUTIONS. BATTERY PACK LUMEN OUTPUT VALUES TO BE BASED ON EMERGENCY LIGHTING NOTES CONTAINED HEREWITH.



GENERAL LIGHTING NOTES

1. DURING EMERGENCY CONDITIONS EMERGENCY LIGHTING CIRCUITS SHALL BYPASS ALL LIGHTING CONTROLS IN ORDER TO ENERGIZE ALL CONNECTED LUMINAIRIES AT FULL CAPACITY. PROVIDE UL924 RELAYS AS REQUIRED TO BYPASS ROOM CONTROLS.
2. ASSURE COMPATIBILITY OF DIMMERS WITH CONTROLLED LUMINAIRIES PRIOR TO PURCHASING.
3. LIGHTING CONTROLS SHALL BE INSTALLED WHICH MEET ALL REQUIREMENTS OF THE 2022 CA ENERGY CODE.
4. AUTOMATIC LIGHTING SHUT-OFF CONTROLS TO BE PROVIDED BY LOCAL OCCUPANCY SENSORS UNLESS OTHERWISE NOTED. APARTMENT PUBLIC SPACES ARE ACTIVE 24/7 AND THEREFORE EXEMPT FROM AUTOMATIC LIGHTING SHUT-OFF REQUIREMENTS.
5. DAYLIGHT ZONES ARE REFERRED TO AS 'PRIMARY' AND 'SECONDARY' ON PLANS AND DENOTED BY DASHED LINES.
6. LOCATIONS OF OCCUPANCY SENSORS, PHOTO SENSORS, SWITCHES, AND DIMMERS ARE DIAGRAMMATIC. CONTRACTOR TO FIELD-IDENTIFY OPTIMAL LOCATIONS AND QUANTITIES.
7. FOR CUSTOM FF&E FIXTURES, IT IS THE MANUFACTURER'S RESPONSIBILITY TO FURNISH PRODUCTS WHICH ARE COMPLIANT WITH ALL 2022 CALIFORNIA TITLE 24 REQUIREMENTS, AS WELL AS MATCH THE ELECTRICAL SPECIFICATIONS PROVIDED IN THE LUMINAIRIES SCHEDULES. PROVIDE SUBMITTAL SHOP DRAWINGS WITHIN 30 DAYS OF RECEIVING FIXTURE ORDER. SUBMITTALS SHALL CLEARLY INDICATE LAMPING AND MAXIMUM WATTAGE RATING OF LAMP SOCKETS. NON-COMPLIANT FIXTURES REJECTED BY ELECTRICAL INSPECTOR SHALL BE RETURNED TO THE MANUFACTURER FOR REWORKING AND/OR RE-LABELING.

SWITCH SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION
0-2 HOUR TIMER	$T	0-2 HOUR DIGITAL TIMER SWITCH, SENSOR SWITCH PTS 60/710, OR EQUAL, FOR CLOSET 70 SQFT OR LESS
PHOTOCELL SENSOR	(PC)	CEILING MOUNTED CLOSED LOOP DAYLIGHT SENSOR PHOTOSENSOR FOR DAYLIGHT ZONE CONTROL SHALL AUTOMATICALLY ADJUST THE LIGHT OUTPUT OF ALL CONNECTED LUMINAIRIES BASED ON THE DAYLIGHT LEVEL IN THE SPACE
GENERIC SWITCH	$	TOGGLE SWITCH FOR MANUAL ON/OFF LIGHTING CONTROL. SUBSCRIPT INDICATE SWITCH FIXTURES ARE TO BE CONTROLLED BY WHICH SWITCH
LOW VOLTAGE KEYPAD	$LV	LOW VOLTAGE KEYPAD CONNECTED TO LIGHTING CONTROL SYSTEM. NUMBER OF PUSH BUTTONS AS REQUIRED - REFER TO A/V SCHEDULES
OCC SENSOR (LOW VOLTAGE)	(OS) / (OS) H	OCCUPANCY SENSOR SHALL TURN OFF ALL CONNECTED LUMINAIRIES WITHIN 30 MINUTES OF SPACE BEING VACANT. (CEILING MOUNTED AND WALL MOUNTED)
THREEWAY SWITCH	$3	3 WAY LINE VOLTAGE SWITCH
DIMMER SWITCH	$D	DIMMER SWITCH FOR MANUAL MULTI-LEVEL LIGHTING CONTROL. SWITCH SHALL ALSO HAVE MANUAL ON/OFF FUNCTIONALITY. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH DIMMER
VACANCY SWITCH	$VS	VACANCY SWITCH SHALL TURN OFF ALL CONNECTED LUMINAIRIES WITHIN 30 MINUTES OF SPACE BEING VACANT. (WALL MOUNTED)

LIGHTING CONTROL SYSTEM REQUIREMENTS

1. CONTRACTOR TO PROVIDE A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH A LIGHTING CONTROLS VENDOR TO OBTAIN LIGHTING CONTROL SYSTEM PACKAGE COMPLETE WITH DEVICES, WIRING DIAGRAMS, ANNOTATED PLANS INDICATING WHICH DEVICE TO BE USED IN EACH LOCATION, CONNECTION REQUIREMENTS, SET UP INSTRUCTIONS, COMMISSIONING AND CHECK-OUT FOLLOWING COMPLETION. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR CONTROL DEVICE INTERCONNECTIONS.
3. CONTRACTOR TO PROVIDE DIMMING AND SWITCHING SYSTEM. ACCEPTABLE MANUFACTURERS INCLUDE N-LIGHT, LUTRON, CRESTRON, LEVITON, PHILIPS, AND WATTSTOPPER.
4. PROVIDE LIGHTING CONTROL PANEL (LCP) TO PERFORM THE FUNCTIONS DESCRIBED BELOW.
5. CONTROL EXTERIOR LIGHTING BASED ON ASTRONOMIC TIMECLOCK SCHEDULING. WHERE REQUIRED, OUTDOOR LIGHTING WILL INCORPORATE LOCAL MOTION DETECTOR/DIMMING CONTROLS.
6. INTERIOR PRIMARY AND SECONDARY DAYLIGHT HARVESTING CONTROL PER ENERGY CODE.
7. PROVIDE MULTI-SCENE DIMMING FOR MORNING, DAY AND NIGHT MODES. INSTALLER TO COORDINATE SCENE CONFIGURATIONS WITH HOTEL MANAGER.
8. PROVIDE PUSHBUTTON CONTROL STATIONS FOR SELECTING LIGHTING SCENES. REFER TO LOCATIONS AND QUANTITY ON PLANS.
9. DEMAND RESPONSIVE CONTROL: LCP SHALL BE CAPABLE OF RECEIVING AND RESPONDING TO AT LEAST ONE STANDARDS BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND RESPONSE SIGNAL. LCP SHALL BE CAPABLE OF LOWERING THE BUILDING'S TOTAL LIGHTING POWER BY A MINIMUM OF 15% BELOW THE TOTAL INSTALLED LIGHTING POWER. LIGHTING SHALL BE REDUCED IN A MANNER CONSISTENT WITH UNIFORM LEVEL OF ILLUMINATION REQUIREMENTS IN TABLE 130.1-A.
10. PROVIDE DIMMING AND SWITCHING CHANNELS AS INDICATED IN LIGHTING CONTROL SCHEDULE.
11. CONTRACTOR TO PROVIDE WIRING FROM BRANCH PANEL CIRCUIT BREAKER TO TERMINALS ON LCP AND THEN TO LOADS THROUGHOUT FACILITY.
12. CONTRACTOR TO PROVIDE ALL LIGHTING CONTROL SENSORS AND ASSOCIATED LINE-VOLTAGE AND LOW-VOLTAGE WIRING ASSOCIATED WITH LIGHTING CONTROLS.
13. LIGHTING CONTROLS VENDOR TO PROVIDE SHOP DRAWINGS INCLUDING FLOOR PLANS AND WIRING DIAGRAMS FOR USE BY INSTALLING ELECTRICIAN.
14. LIGHTING CONTROLS VENDOR TO PROVIDE ON-SITE PRE-WIRE VISIT AND INSTRUCT THE CONTRACTOR HOW TO INSTALL THE PANEL, CONTROLS AND WIRING.
15. CONTRACTOR TO PROVIDE LOW-VOLTAGE CABLES AS DIRECTED AND APPROVED BY LIGHTING CONTROLS MANUFACTURER.

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant

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No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

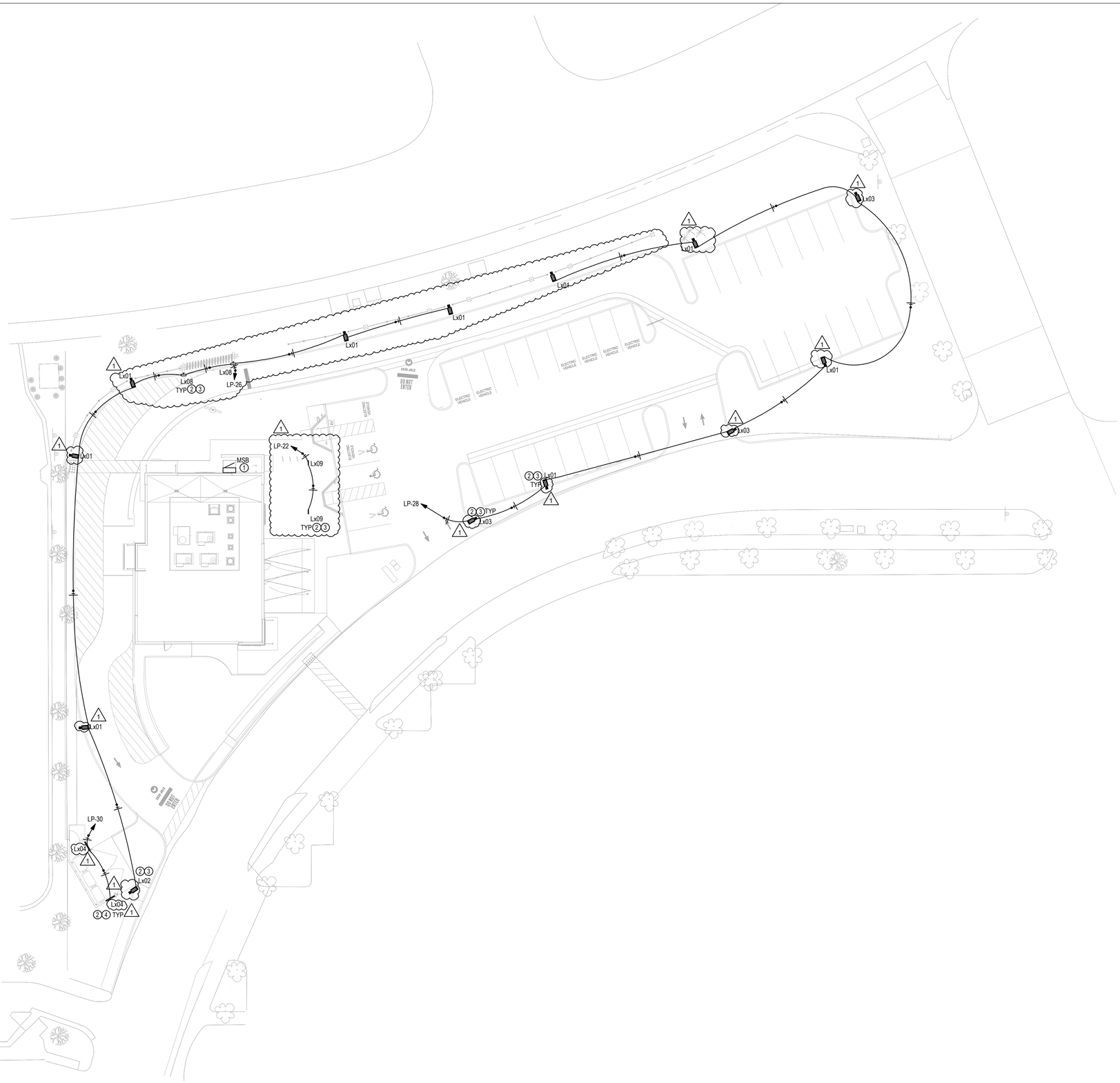
LIGHTING SCHEDULE

Project Number: 6360
Drawn By: EU
Issue Date: **02/12/2024**
DPM: - DM: - CPM: -

Sheet Number: **E0.03**

PR 2023.02.V2

File Name: E0.04 SITE LIGHTING PLAN.dwg Plotted By: Elaine 02/12/2024 [Mon 11:58am]



1 SITE LIGHTING PLAN
1" = 20'-0"

LIGHTING GENERAL NOTES

1. REFER TO ELECTRICAL SHEET E0.00 FOR ADDITIONAL ELECTRICAL NOTES AND ABBREVIATIONS.
2. ELECTRICAL CONTRACTOR TO COORDINATE LOCATION, METHOD OF CONNECTION AND INSTALLATION OF LIGHTING WITH ALL RELEVANT TRADES PRIOR TO ROUGH IN OF THE WIRING SYSTEM.
3. ALL CONTROL EQUIPMENT REQUIRING CERTIFICATION UNDER TITLE 24 TO BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
4. LIGHTING FIXTURES IN CONTACT WITH INSULATION TO BE UL LISTED FOR THERMAL BARRIER OR PROVIDE 3 INCH MINIMUM CLEARANCE.
5. FIXTURES INSTALLED IN FIRE RATED CEILINGS SHALL BE INSTALLED IN AN APPROVED BY RESISTIVE MANNER CONSISTENT WITH RATING OF THE CEILING.
6. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICT BETWEEN LIGHT FIXTURE LOCATIONS, MAIN RUNNERS, DUCTS, BUILDING STRUCTURE, ETC.
7. ALL LIGHT FIXTURES TO BE COORDINATED WITH LIGHTING DESIGNER, FURNISHED AND INSTALLED BY CONTRACTOR.
8. ALL RECESSED DOWNLIGHTS TO BE THERMALLY PROTECTED PER N.E.C. & U.L. REQUIREMENTS.
9. FOR EXACT LOCATION OF ALL LIGHT FIXTURES & MOUNTING HEIGHTS, SEE LIGHTING DESIGNER DRAWINGS.
10. ALL LIGHT FIXTURES USED IN EXTERIOR AREA SHALL BE LISTED FOR WET LOCATION.
11. ALL LIGHT FIXTURES USED IN THE PROJECT SHALL BE LISTED FOR INTENDED USE.
12. CONTRACTOR TO INSTALL CLOSET FIXTURE TO ASSURE THAT THE MINIMUM OF 18" EXISTS BETWEEN THE CLOSET SHELF AND THE EDGE OF THE LIGHT FIXTURE. CONTRACTOR SHALL VERIFY FINAL LOCATION AND DIMENSIONS OF SHELVES RELATIVE TO FIXTURE AND PROVIDE FIXTURE TYPE AS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE ARTICLE 410.8.
13. BATHROOMS REQUIRE A MINIMUM OF ONE HIGH-EFFICACY LUMINAIRE, AND REQUIRE ALL OTHER LIGHTING TO BE EITHER HIGH-EFFICACY LIGHTING OR VACANCY SENSORS FOR ADDITIONAL LIGHTING.
14. FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT, REFER TO M-SERIES AND P-SERIES LAYOUTS.
15. GROUP SWITCHES IN A GANG BOX UNDER COMMON COVERPLATE, WHERE APPLICABLE.
16. REFER TO CIVIL DRAWINGS FOR GENERAL SITE LIGHTING AND ADDITIONAL INFORMATION.
17. VERIFY ALL CONDUIT PATHWAYS REQUIRED FOR SITE WORK WITH CIVIL.
18. VERIFY AND COORDINATE ALL BUILDING SHELL, SITE WORK AND SIGNAGE REQUIREMENTS PRIOR TO START OF WORK.

KEYNOTES

NOTE: SOME KEYNOTES LISTED BELOW MAY NOT PERTAIN TO THIS DRAWING.

1. SERVICE ENTRANCE LOCATION. COORDINATE INSTALLATION WITH SERVING UTILITY.
2. EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL AND ASTRONOMICAL TIME CLOCK SWITCH. CIRCUIT VIA LIGHTING CONTACTOR AND TIME CLOCK/PHOTOCELL FURNISHED WITH CPI PANEL. COORDINATE WITH CPI REPRESENTATIVE.
3. PROVIDE NEW PARKING LOT LIGHT FIXTURE AND NEW LIGHT POLE INCLUDING NEW CONDUIT AND CONDUCTORS FROM ALL SITE LIGHT FIXTURE LOCATIONS TO TENANT BUILDING. SEE SITE PHOTOMETRICS DRAWING E5.00 FOR LIGHT FIXTURE TYPES. CONTRACTOR SHALL PROVIDE ALL CONDUCTORS, CONDUIT, APPURTENANCES, AND CONNECTIONS (SIZED PER N.E.C. REGULATIONS) TO COMPLETE INSTALLATION. VERIFY AND COORDINATE ALL REQUIREMENTS INCLUDING CONTRACTOR RESPONSIBILITIES AND ROUTING OF CONDUITS TO LIGHT FIXTURE LOCATIONS WITH LANDLORD, CIVIL, AND TENANT REPRESENTATIVE PRIOR TO START OF WORK.
4. EXTERIOR LIGHTING TO BE CONTROLLED BY MOTION SENSORS.

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

Consultant

120 DEGREEZ MEP ENGINEERING

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619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

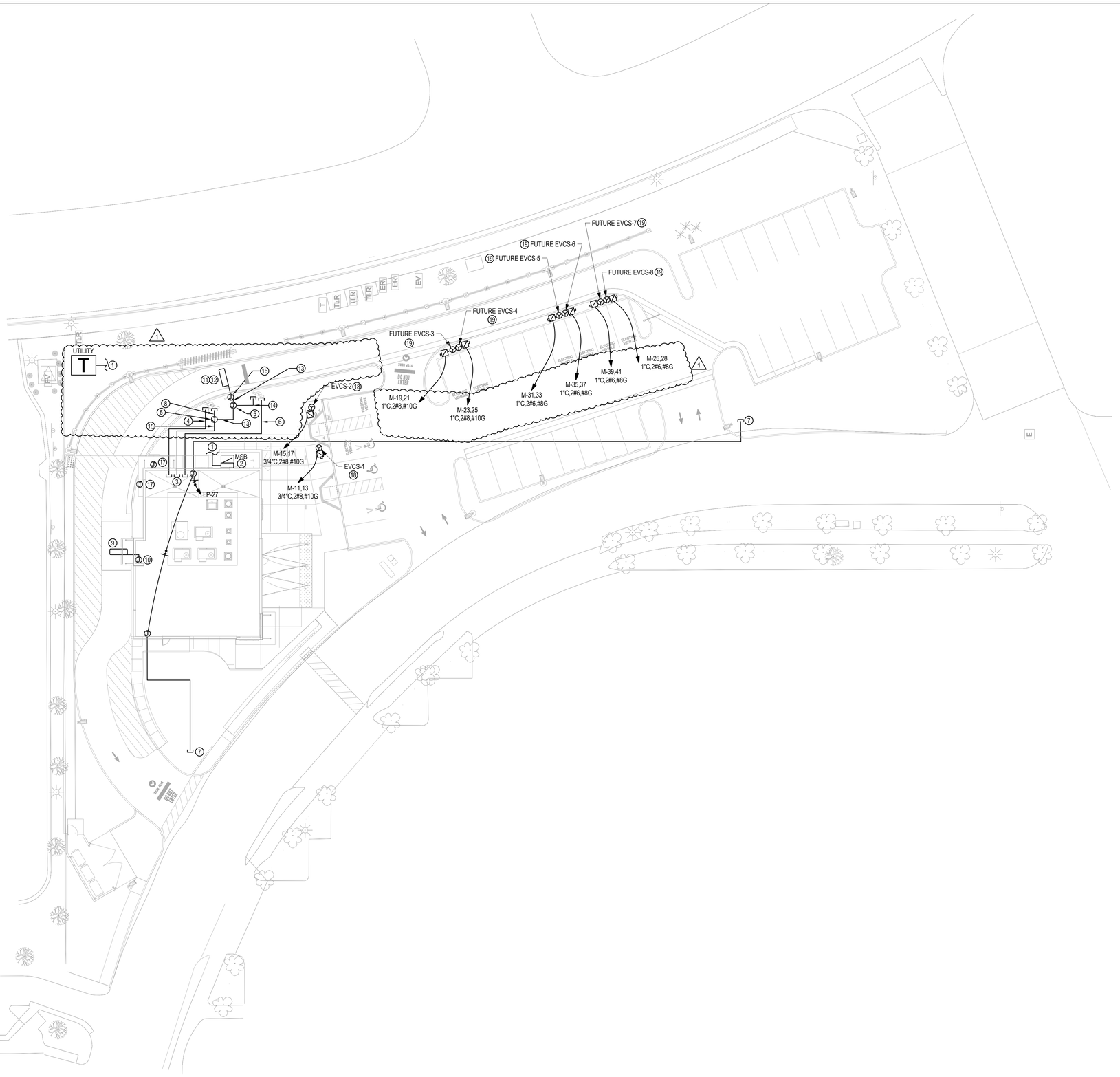
SITE LIGHTING PLAN

Project Number: 6360
Drawn By: EU
Issue Date: **02/12/2024**
DPM: - DM: - CPM: -

Sheet Number: **E0.04**

PR 2023.02.V2

File Name: E0.05 SITE POWER PLAN.dwg Plotted By: Elaine 02/12/2024 [Mon 11:58am]



1 SITE POWER PLAN
1" = 20'-0"

GENERAL POWER NOTES

1. REFER TO ELECTRICAL SHEET E0.00 FOR ADDITIONAL ELECTRICAL NOTES AND ABBREVIATIONS.
2. DRAWING SHOWS THE DESIRED ELECTRICAL LAYOUT WITH NEW LOCATIONS OF RECEPTACLES, HARD WIRED JUNCTION BOX, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF DEVICES TO AVOID CONFLICT ACCESS TO THE DEVICES.
3. ALL J-BOXES SHALL BE SIZED PER C.E.C.
4. ALL PENETRATIONS INTO FIRE RATED WALL AND ALL FLOOR CORING SHALL BE FIRE SEALED.
5. FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT, REFER TO M-SERIES AND P-SERIES LAYOUTS.
6. FOR EQUIPMENT REQUIRING SPECIAL RECEPTACLE, PROVIDE RECEPTACLE WITH NEMA CONFIGURATION TO MATCH EQUIPMENT PLUG.
7. MAINTAIN SEPARATION BETWEEN ELECTRICAL AND TELECOM CONDUITS.
8. SELECTION OF RECEPTACLES WITH ADEQUATELY SIZED CABLE TERMINATION TERMINALS IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, WALL OUTLETS, ETC., SHALL BE IN ACCORDANCE WITH ARCHITECT/OWNER.
10. VERIFY ELECTRICAL REQUIREMENTS OF ALL NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION, TO ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHMENT PLUGS OR JUNCTION BOXES THAT MAY BE FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT.
11. ALL RECEPTACLES INSTALLED ON THE ROOF OR EXTERNALLY SHALL BE GFCI-PROTECTED AND LISTED AS WEATHER RESISTANT. PROVIDE WP, EXTRA DUTY, IN-USE COVER.
12. ALL ELECTRICAL OUTLET BOXES INSTALLED IN RATED WALLS OR ASSEMBLIES, SHALL BE HORIZONTALLY SEPARATED BY NOT LESS THAN 24" FROM OUTLETS IN THE OPPOSITE WALL SURFACE AND BACK SIDE OF BOXES SHALL BE SEALED WITH 1/8" RESILIENT SEALANT AND BACKED BY A MINIMUM OF 2" THICK MINERAL FIBER INSULATION.
13. VERIFY EXACT LOCATIONS OF ALL APPLIANCES RECEPTACLES PRIOR TO INSTALLATION OF OUTLETS.
14. PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS. VERIFY WITH ARCHITECT FOR EXACT REQUIREMENTS AND LOCATION.
    ALL RECEPTACLES HEIGHTS SHALL BE ACCESS COMPLIANCE PER SECTION 1136A AND SECTION 11B-308 OF THE BUILDING CODE.
    - ALL ABOVE COUNTER RECEPTACLES TO BE 42" A.F.F.
    - ALL TV RECEPTACLES TO BE 46" A.F.F.
    - ALL OTHER RECEPTACLES TO BE 18" A.F.F.
    - 125V, 15 AND 20 AMP RECEPTACLES REQUIRED AS PER C.E.C. 210.52 ARE TO BE LISTED AS TAMPER RESISTANT.
15. ALL TV OUTLETS SHALL BE DUAL CONNECTION FOR ANTENNA & CABLE TV.
16. ALL KITCHEN RECEPTACLES SHALL HAVE "GFCI" PROTECTION. ALL GENERAL RECEPTACLES SHALL BE OF TAMPER RESISTANT TYPE.
17. ALL GFCI DEVICES (CIRCUIT BREAKER OR RECEPTACLE) SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
18. CONTRACTOR SHALL PROVIDE ALL REQUIRED LOW VOLTAGE CONDUIT AND WIRING FOR TELEPHONE/DATA, CCTV, INTERCOM SYSTEM ETC. CONTRACTOR TO INCLUDE IN THEIR BIDS ALL COSTS FOR PREPARATION AND INSTALLATION OF LOW VOLTAGE SYSTEMS. PROVIDE POWER AS REQUIRED. MAINTAIN SEPARATION BETWEEN ELECTRICAL AND LOW VOLTAGE CONDUITS. PLEASE REFER TO LOW VOLTAGE DRAWINGS FOR EXACT PLACEMENT OF ALL LOW VOLTAGE EQUIPMENT.
19. REFER TO CIVIL DRAWINGS FOR GENERAL SITE LIGHTING AND ADDITIONAL INFORMATION.
20. VERIFY ALL CONDUIT PATHWAYS REQUIRED FOR SITE WORK WITH CIVIL.
21. VERIFY AND COORDINATE ALL BUILDING SHELL, SITE WORK AND SIGNAGE REQUIREMENTS PRIOR TO START OF WORK.

KEYNOTES

NOTE: SOME KEYNOTES LISTED BELOW MAY NOT PERTAIN TO THIS DRAWING.

1. PROVIDE 2 SETS OF (4) 600 kcmil, 4" CONDUIT FROM UTILITY COMPANY TRANSFORMER. VERIFY AND COORDINATE ROUTING OF CONDUITS WITH UTILITY CO., CIVIL, AND TENANT REPRESENTATIVE.
2. SERVICE ENTRANCE LOCATION. COORDINATE INSTALLATION WITH SERVING UTILITY.
3. ELECTRICAL CONTRACTOR TO PROVIDE 1" PVC CONDUITS AS SHOWN STUBBED TO CPI PANEL LOCATION. FINAL CONNECTION TO EQUIPMENT TO BE COMPLETED BY TI CONTRACTOR.
4. PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO MENU BOARD FOR POWER. VERIFY STUB-UP LOCATION AT MENU BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
5. PROVIDE 4X4 JUNCTION BOX FOR DATA CONNECTION. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE IN THE FIELD.
6. PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO PREVIEW BOARD FOR POWER. VERIFY STUB-UP LOCATION AT PREVIEW BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
7. PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO DIRECTIONAL SIGNAGE. VERIFY STUB-UP LOCATION AT DIRECTIONAL SIGNAGE WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
8. PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO MENU BOARD FOR DATA. VERIFY STUB-UP LOCATION AT MENU BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
9. LANDLORD SHALL FURNISH AND INSTALL DRIVE-THRU DETECTOR LOOP IN CONCRETE PAD. CONTRACTOR TO PROVIDE CONCRETE PAD WITH ALL ASSOCIATED CONC. SLAB AND CURBING, (NO METAL LOCATED WITHIN 36" OF LOOP DETECTOR), WIRE MESH, REBAR REINFORCING, AND WITH POWER CONDUIT STUBBED BACK TO THE BUILDING AND CAPPED. VERIFY WITH LANDLORD AND TENANT.
10. EXTEND LOOP DETECTOR CONDUIT TO JBOX IN WALL AT 24" AFF. VERIFY AND COORDINATE CONDUIT ENTERING BUILDING AND CONNECTION TO JBOX IN WALL FOR LOOP DETECTOR SYSTEM WITH LANDLORD AND TENANT REPRESENTATIVE.
11. LANDLORD SHALL FURNISH AND INSTALL MENU BOARD DETECTOR LOOP IN CONCRETE PAD. CONTRACTOR TO PROVIDE CONCRETE PAD WITH ALL ASSOCIATED CONC. SLAB AND CURBING, FIBERMESH (NO METAL LOCATED WITHIN 36" OF LOOP DETECTOR), AND WITH POWER CONDUIT STUBBED BACK TO THE BUILDING AND CAPPED. VERIFY WITH LANDLORD AND TENANT.
12. EXTEND LOOP DETECTOR TO 4x4 JUNCTION BOX AT SPEAKER POST. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE IN THE FIELD.
13. PROVIDE 1" CONDUIT W/PULL WIRE FOR DATA TO SPEAKER POST. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
14. PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO PREVIEW BOARD FOR DATA. VERIFY STUB-UP LOCATION AT PREVIEW BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
15. PROVIDE 1" CONDUIT W/PULL WIRE FOR DATA TO MENU BOARD, SPEAKER POST, AND PREVIEW BOARD. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
16. PROVIDE JUNCTION BOX FOR MENU BOARD DETECTOR LOOP. CONNECTION OF DETECTOR LOOP TO JUNCTION BOX BY TENANT. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE IN THE FIELD.
17. PROVIDE ROUGH-IN FOR FINAL CONNECTION TO CAMERA SHOWN. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE / CAMERA PROVIDER IN THE FIELD.
18. EV CHARGING STATION. PROVIDE 3/4" CONDUIT FROM THE EQUIPMENT LOCATION TO PANEL "M" CIRCUIT AS SHOWN. COORDINATE LOCATION OF CONNECTION AND EQUIPMENT SPECIFICATIONS WITH GENERAL CONTRACTOR AND EV CHARGING STATION VENDOR PRIOR TO ROUGH IN
19. PROVISIONS FOR FUTURE EV CHARGING STATION. PROVIDE 1" CONDUIT FROM THE EQUIPMENT LOCATION TO PANEL "M", PROVIDE PULL STRING AND CAP CONDUIT AT EACH END. ELECTRICAL CONTRACTOR TO MARK PRECISE LOCATION OF STUB OUT FOR CHARGER ON AS BUILT CONSTRUCTION DOCUMENTS AND RETURN TO OWNER. COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH IN.

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant

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Mechanical | Electrical | Plumbing

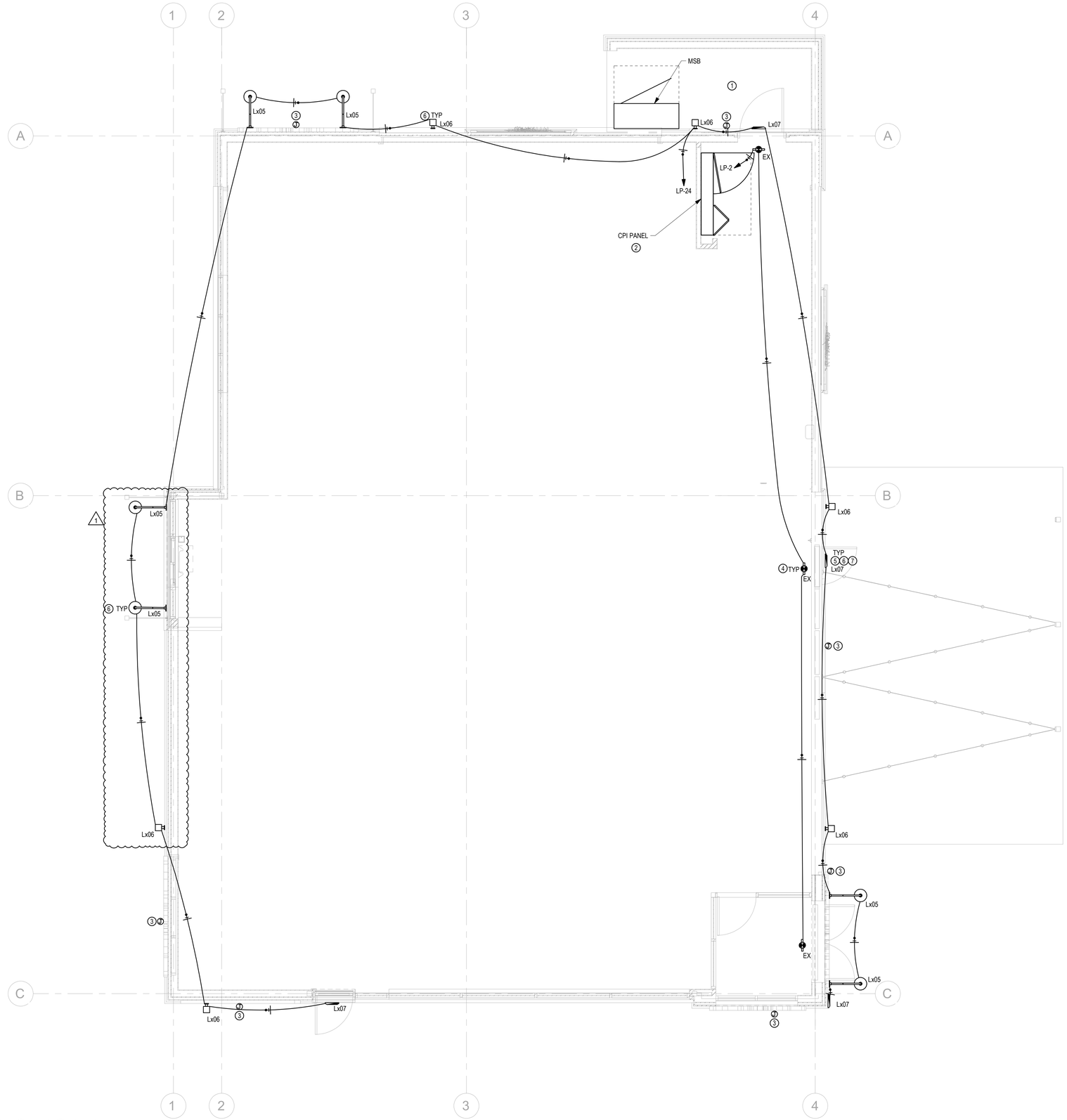
No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

SITE POWER PLAN

Project Number: 6360
Drawn By: EU
Issue Date: 02/12/2024
DPM: - DM: - CPM: -

Sheet Number: **E0.05**

PR 2023.02.12



1 GROUND FLOOR LIGHTING PLAN
1/4" = 1'-0"

LIGHTING GENERAL NOTES

1. REFER TO ELECTRICAL SHEET E0.00 FOR ADDITIONAL ELECTRICAL NOTES AND ABBREVIATIONS.
2. ELECTRICAL CONTRACTOR TO COORDINATE LOCATION, METHOD OF CONNECTION AND INSTALLATION OF LIGHTING WITH ALL RELEVANT TRADES PRIOR TO ROUGH IN OF THE WIRING SYSTEM.
3. ALL CONTROL EQUIPMENT REQUIRING CERTIFICATION UNDER TITLE 24 TO BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
4. LIGHTING FIXTURES IN CONTACT WITH INSULATION TO BE UL LISTED FOR THERMAL BARRIER OR PROVIDE 3 INCH MINIMUM CLEARANCE.
5. FIXTURES INSTALLED IN FIRE RATED CEILINGS SHALL BE INSTALLED IN AN APPROVED BY RESISTIVE MANNER CONSISTENT WITH RATING OF THE CEILING.
6. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICT BETWEEN LIGHT FIXTURE LOCATIONS, MAIN RUNNERS, DUCTS, BUILDING STRUCTURE, ETC.
7. ALL LIGHT FIXTURES TO BE COORDINATED WITH LIGHTING DESIGNER, FURNISHED AND INSTALLED BY CONTRACTOR.
8. ALL RECESSED DOWNLIGHTS TO BE THERMALLY PROTECTED PER N.E.C. & U.L. REQUIREMENTS.
9. FOR EXACT LOCATION OF ALL LIGHT FIXTURES & MOUNTING HEIGHTS, SEE LIGHTING DESIGNER DRAWINGS.
10. ALL LIGHT FIXTURES USED IN EXTERIOR AREA SHALL BE LISTED FOR WET LOCATION.
11. ALL LIGHT FIXTURES USED IN THE PROJECT SHALL BE LISTED FOR INTENDED USE.
12. CONTRACTOR TO INSTALL CLOSET FIXTURE TO ASSURE THAT THE MINIMUM OF 18" EXISTS BETWEEN THE CLOSET SHELF AND THE EDGE OF THE LIGHT FIXTURE. CONTRACTOR SHALL VERIFY FINAL LOCATION AND DIMENSIONS OF SHELVES RELATIVE TO FIXTURE AND PROVIDE FIXTURE TYPE AS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE ARTICLE 410.8.
13. FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT, REFER TO M-SERIES AND P-SERIES LAYOUTS.
14. GROUP SWITCHES IN A GANG BOX UNDER COMMON COVER PLATE, WHERE APPLICABLE.
15. ALL LIGHTING FIXTURE BULBS SHALL HAVE PROTECTIVE COVERS, BE COATED OR SHATTER-RESISTANT IN AREAS WHERE THERE IS NON-PREPACKAGED READY TO EAT FOOD, CLEAN EQUIPMENT, UTENSILS, LINENS OR UNWRAPPED SINGLE USE ARTICLES, FOOD PREPARATION AREAS, OPENED FOOD STORAGE ROOMS, AND DISHWASHING AREAS.

KEYNOTES

NOTE: SOME KEYNOTES LISTED BELOW MAY NOT PERTAIN TO THIS DRAWING.

1. SERVICE ENTRANCE LOCATION. COORDINATE INSTALLATION WITH SERVING UTILITY.
2. SEE PANEL SCHEDULES AND ONE-LINE DIAGRAM ON SHEETS E2.00 AND E3.00.
3. PROVIDE ROUGH-IN/JUNCTION BOX FOR 120V/1PH 20 AMP CIRCUITS FOR FUTURE EXTERIOR BUILDING SIGNAGE. SEE SIGN SHOP DRAWINGS. VERIFY EXACT LOCATION AND ALL REQUIREMENTS AND DETAILS PRIOR TO ROUGH-IN.
4. EXTEND UNSWITCHED CIRCUIT CONDUCTOR TO EXIT SIGN/EMERGENCY BATTERY BACKUP.
5. PROVIDE EXTERIOR EMERGENCY EGRESS LIGHT WITH EMERGENCY BATTERY BACK UP UNIT TO INSURE CONTINUED ILLUMINATION FOR AT LEAST 90 MINUTES IN CASE OF PRIMARY POWER LOSS. EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY. VERIFY EXACT MOUNTING LOCATION OF EXTERIOR EGRESS LIGHT AND REMOTE BATTERY PRIOR TO START OF WORK.
6. EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL AND ASTRONOMICAL TIME CLOCK SWITCH. CIRCUIT VIA LIGHTING CONTACTOR AND TIME CLOCK/PHOTOCELL FURNISHED WITH CPI PANEL. COORDINATE WITH CPI REPRESENTATIVE.
7. EXTERIOR EMERGENCY WALL PACKS TO BE ON THE SAME CIRCUIT AS THE EXTERIOR LIGHTING CIRCUIT. PROVIDE AN UN-SWITCHED CONDUCTOR TO EACH FIXTURE.

NOTE:

ALL FIXTURES (NO EXCEPTIONS) TO BE OBTAINED THROUGH NATIONAL ACCOUNT AT:

STANDARD ELECTRICAL SUPPLY COMPANY
#14 JEWEL DRIVE
WILMINGTON, MA 01887

CONTACT: PANERA ACCOUNT REPRESENTATIVE 800-370-5050 x3176

CITY LIGHTING
4307 WEST PAPIN ST.
ST. LOUIS, MO 63110
CONTACT: MIKE CANTY 314-534-1090

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
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No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

GROUND FLOOR LIGHTING PLAN

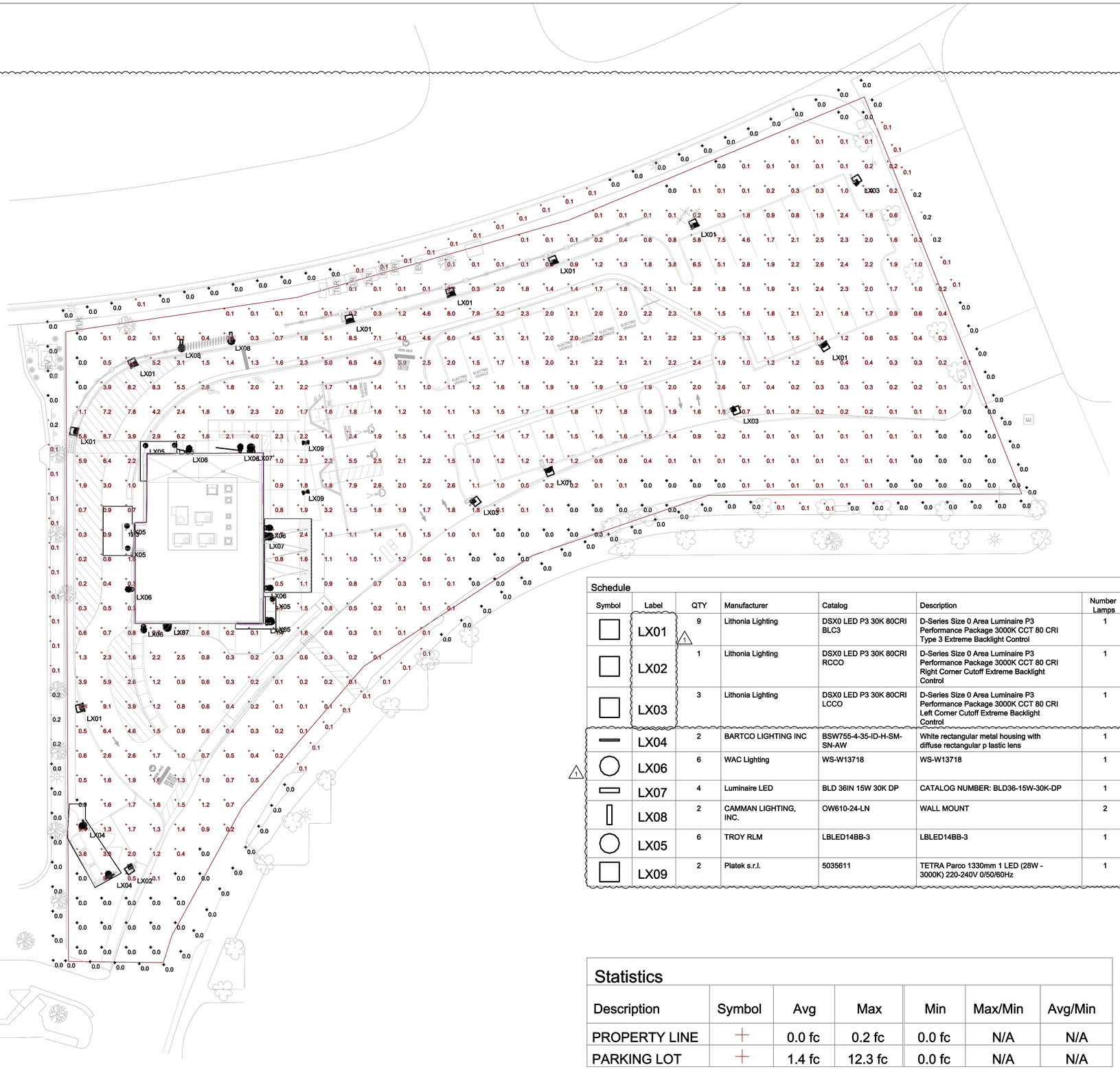
Project Number: 6360
Drawn By: EU
Issue Date: 02/12/2024
Sheet Number: **E1.00**

DPM:	DM:	CPM:
-	-	-

File Name: E1.00 GROUND FLOOR LIGHTING PLAN.dwg Plotted By: Elaine 02/12/2024 [Mon 11:58am]

PR 2023.02.12

File Name: E5.00 SITE PHOTOMETRIC PLAN.dwg Plotted By: Elaine 02/12/2024 [Mon 11:58am]



Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	LX01	9	Lithonia Lighting	DSX0 LED P3 30K 80CRI BLC3	D-Series Size 0 Area Luminaire P3 Performance Package 3000K CCT 80 CRI Type 3 Extreme Backlight Control	1	5573	0.9	68.95
	LX02	1	Lithonia Lighting	DSX0 LED P3 30K 80CRI RCCO	D-Series Size 0 Area Luminaire P3 Performance Package 3000K CCT 80 CRI Right Corner Cutoff Extreme Backlight Control	1	5623	0.9	68.95
	LX03	3	Lithonia Lighting	DSX0 LED P3 30K 80CRI LCCO	D-Series Size 0 Area Luminaire P3 Performance Package 3000K CCT 80 CRI Left Corner Cutoff Extreme Backlight Control	1	5623	0.9	68.95
	LX04	2	BARTCO LIGHTING INC	BSW755-4-35-ID-H-SM-SN-AW	White rectangular metal housing with diffuse rectangular p lastic lens	1	4572	0.9	41.1348
	LX06	6	WAC Lighting	WS-W13718	WS-W13718	1	274	0.9	10.7886
	LX07	4	Luminaire LED	BLD 36IN 15W 30K DP	CATALOG NUMBER: BLD36-15W-30K-DP	1	1537	1	14.7
	LX08	2	CAMMAN LIGHTING, INC.	OW610-24-LN	WALL MOUNT	2	1091	1	17.14
	LX05	6	TROY RLM	LBLED14BB-3	LBLED14BB-3	1	1728	0.9	17.32
	LX09	2	Platek s.r.l.	5035611	TETRA Parco 1330mm 1 LED (28W - 3000K) 220-240V 0/50/60Hz	1	1620	0.9	28

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE	+	0.0 fc	0.2 fc	0.0 fc	N/A	N/A
PARKING LOT	+	1.4 fc	12.3 fc	0.0 fc	N/A	N/A

1 SITE PHOTOMETRIC PLAN
1" = 20'-0"

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
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Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
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No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

SITE PHOTOMETRIC PLAN

Project Number: 6360
Drawn By: EU
Issue Date: 02/12/2024
DPM: - DM: - CPM: -

Sheet Number: **E5.00**

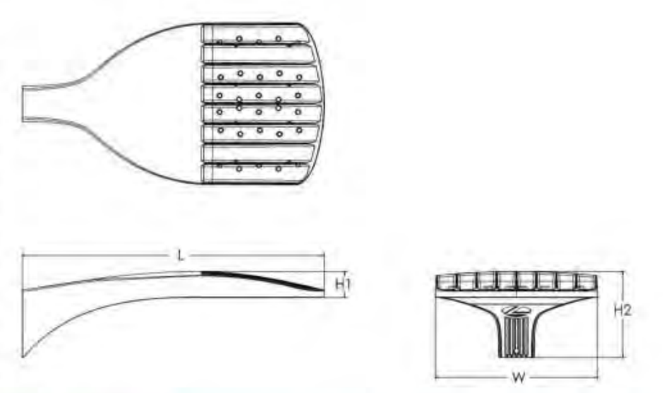
File Name: E6.00 LIGHTING CUT SHEETS.dwg Plotted By: Elaine 02/12/2024 [Mon 11:58am]

D-Series Size 0
LED Area Luminaire

Catalog Number	
Notes	
Type	

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series: DSX0 LED

LEDs:
- Forward optics: P1, P2, P3, P4, P5, P6, P7
- Rotated optics: P10[1], P11[1], P12[1], P13[1]

Color temperature[2] / Color Rendering Index[2]:
- (this section 70CRI only): 30K 3000K 70CRI; 40K 4000K 70CRI; 50K 5000K 70CRI
- (this section 80CRI only, extended lead times apply): 27K 2700K 80CRI; 30K 3000K 80CRI; 35K 3500K 80CRI; 40K 4000K 80CRI; 50K 5000K 80CRI

Distribution:
- AFR Automotive front row
- T1S Type I short
- T2M Type II medium
- T3M Type III medium
- T3LG Type III low glare[3]
- T4M Type IV medium
- T4LG Type IV low glare[3]
- TFTM Forward throw medium
- T5M Type V medium
- T5LG Type V low glare
- T5W Type V wide
- BLC3 Type III backlight control[3]
- BLC4 Type IV backlight control[3]
- LCCO Left corner cutoff[3]
- RCCO Right corner cutoff[3]

Voltage:
- MVOLT (120V-277V)[4]
- HVOLT (347V-480V)[5,6]
- XVOLT (277V-480V)[7,8]
- 120[16,24]
- 208[16,24]
- 240[16,24]
- 277[16,24]
- 347[16,24]
- 480[16,24]

Mounting:
Shipped included
- SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole)
- RPA Round pole mounting (#8 drilling, 3" min. RND pole)
- SPA5 Square pole mounting (#5 drilling, 3" min. SQ pole)[9]
- RPA5 Round pole mounting (#5 drilling, 3" min. RND pole)[9]
- SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole)
- WBA Wall bracket[10]
- MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options:
Shipped installed
- NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[11,12,18,19]
- PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,18,19]
- PER NEMA twist-lock receptacle only (controls ordered separate)[14]
- PER5 Five-pin receptacle only (controls ordered separate)[16,19]
- PER7 Seven-pin receptacle only (controls ordered separate)[14,19]
- FAO Field adjustable output[15,19]
- BL30 Bi-level switched dimming, 30%[16,19]
- BL50 Bi-level switched dimming, 50%[16,19]
- DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]

Other options:
Shipped installed
- HS Houseside shield (black finish standard)[20]
- L90 Left rotated optics[1]
- R90 Right rotated optics[1]
- CCE Coastal Construction[21]
- HA 50°C ambient operation[22]
- BAA Buy America(n) Act Compliant
- SF Single fuse (120, 277, 347V)[24]
- DF Double fuse (208, 240, 480V)[24]

Shipped separately
- EGSR External Glare Shield (reversible, field install required, matches housing finish)
- BSDB Bird Spikes (field install required)

Finish (required):
- DDBXD Dark Bronze
- DBLXD Black
- DNAXD Natural Aluminum
- DWHXD White
- DDBTXD Textured dark bronze
- DBLBXD Textured black
- DNATXD Textured natural aluminum
- DWHGXD Textured white

Ordering Information

Accessories
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[23]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[23]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[23]
DSHORT SBK	Shorting cap[23]
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

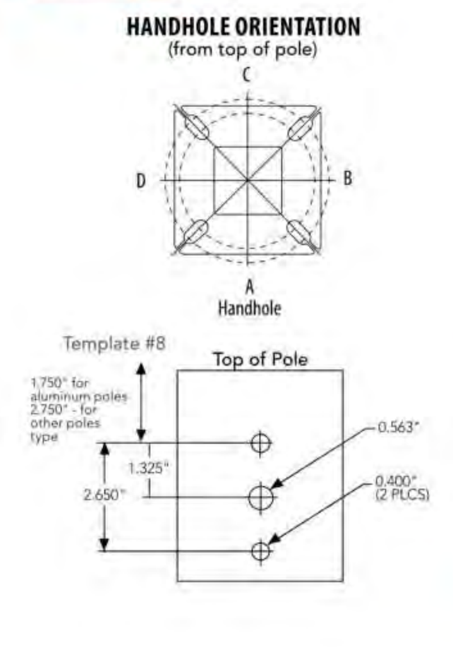
NOTES
1. Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2. 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3. T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6. HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7. XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8. XVOLT not available in packages P1, P2 or P10. XVOLT not available with fusing (SF or DF).
9. SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10. WBA cannot be combined with Type 5 distributions plus photocell (PER).
11. NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
12. NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1, P2 and P10 using XVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
13. PIR not available with NLTAIR2, PER, PER5, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P1 using MVOLT.
14. PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15. FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
16. BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
17. DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
18. Reference Motion Sensor Default Settings table on page 4 to see functionality.
19. Reference Controls Options table on page 4.
20. Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21. CCE option not available with option BS and EGSR. Contact Technical Support for availability.
22. Option HA not available with performance packages P6, P7, P12 and P13.
23. Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
24. Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories

External Glare Shield (EGSR)

House Side Shield (HS)

Drilling



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX0 Area Luminaire - EPA

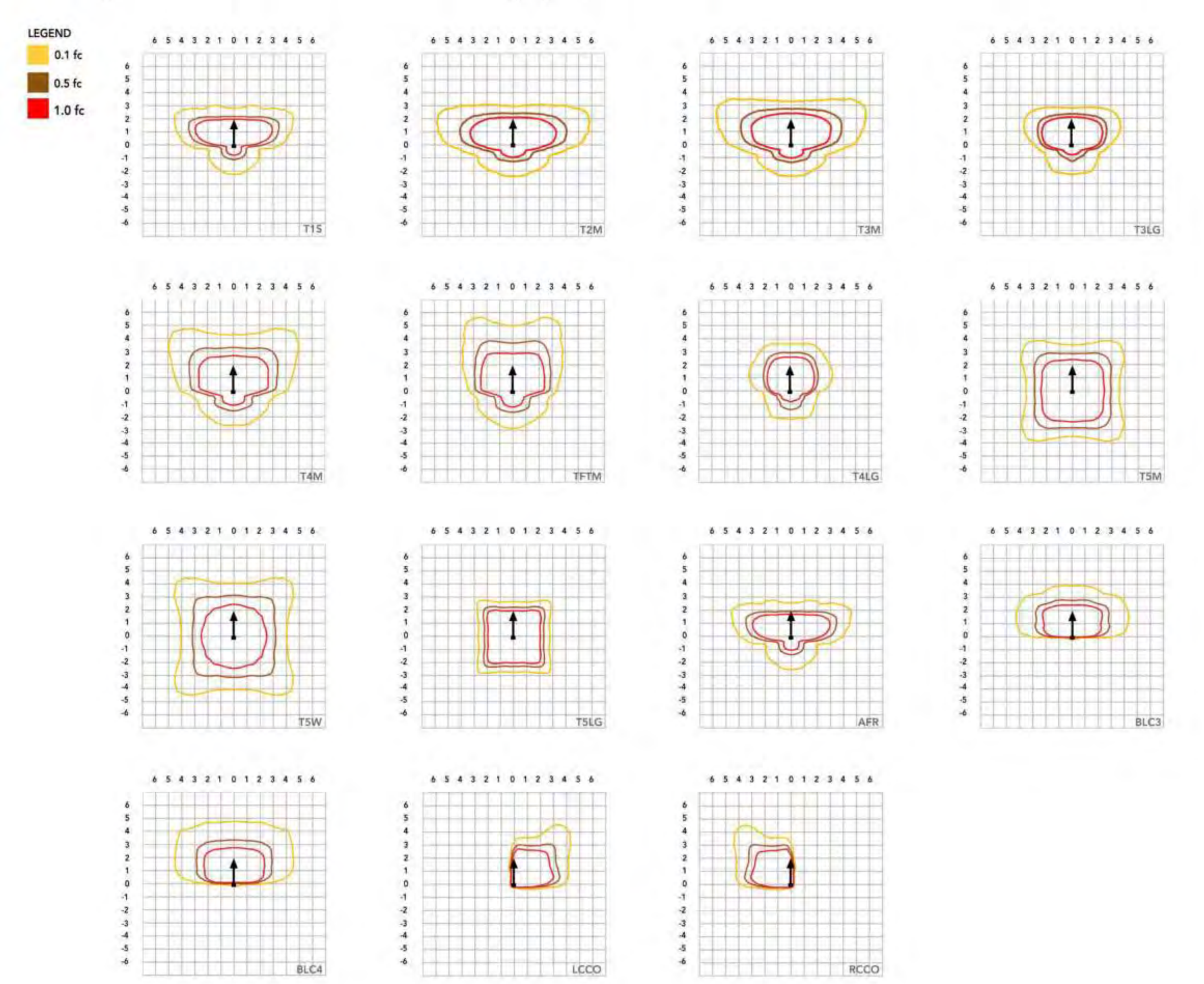
*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	—	1.16
DSX0 with SPA5, SPA8N	0.51	1.02	1.06	1.26	—	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
					Current (A)					
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Performance Data

Lumen Output
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI) Lumens	B	U	G	LPW	40K (4000K, 70 CRI) Lumens	B	U	G	LPW	50K (5000K, 70 CRI) Lumens	B	U	G	LPW
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,301	1	0	3	140
				T3LG	5,297	1	0	1	117	5,521	1	0	1	122	5,628	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,474	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				TFTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
				T5M	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5W	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5LG	6,210	2	0	1	138	6,472	3	0	1	143	6,598	3	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
P3	69W	20	1050	T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
				T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
				T3M	10,680	2	0	3	115	11,130	2	0	3	120	11,347	2	0	3	122
				T3LG	9,540	1	0	2	103	9,942	1	0	2	107	10,136	1	0	2	109
				T4M	10,839	2	0	3	117	11,296	2	0	3	121	11,516	2	0	4	124
				T4LG	9,858	1	0	2	106	10,274	1	0	2	110	10,474	1	0	2	113
				TFTM	10,914	2	0	3	117	11,374	2	0	3	122	11,596	2	0	3	125
				T5M	11,152	4	0	2	120	11,622	4	0	2	125	11,849	4	0	2	127
				T5W	11,332	4	0	3	122	11,811	4	0	3	127	12,041	4	0	3	129
				T5LG	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	92
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

Performance Data

Lumen Output
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI) Lumens	B	U	G	LPW	40K (4000K, 70 CRI) Lumens	B	U	G	LPW	50K (5000K, 70 CRI) Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				T5W	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
				T2M	16,253	3	0	4	119	16,939	3	0	4	124	17,269	3	0	4	126
				T3M	16,442	2	0	4	120	17,135	3	0	4	125	17,469	3	0	4	128
				T3LG	14,687	2	0	2	107	15,306	2	0	2	112	15,605	2	0	2	114
				T4M	16,687	2	0	4	122	17,391	3	0	5	127	17,730	3	0	5	129
				T4LG	15,177	2	0	2	111	15,817	2	0	2	115	16,125	2	0	2	118
				TFTM	16,802	2	0	4	123	17,511	2	0	4	128	17,852	2	0	5	130
				T5M	17,168	4	0	2	125	17,893	5	0	3	131	18,241	5	0	3	133
				T5W	17,447	5	0	3	127	18,183	5	0	3	133	18,537	5	0	3	135
				T5LG	17,218	4	0	2	126	17,944	4	0	2	131	18,294	4	0	2	134
				BLC3	11,959	0	0	3	87	12,464	0	0	3	91	12,707	0	0	3	93
				BLC4	12,352	0	0	4	90	12,873	0	0	4	94	13,124	0	0	4	96
				RCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				LCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				AFR	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300	T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				T5W	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture. Design. Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Consultant

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Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

LIGHTING CUT SHEETS

Project Number: 6360
Drawn By: EU
Issue Date: **02/12/2024**
Sheet Number: **E6.00**
DPM: - DM: - CPM: -

PB 2023.Q2.V2

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

File Name: E6.01 LIGHTING CUT SHEETS.dwg Plotted By: Elaine 02/12/2024 [Mon 11:58am]

Performance Data

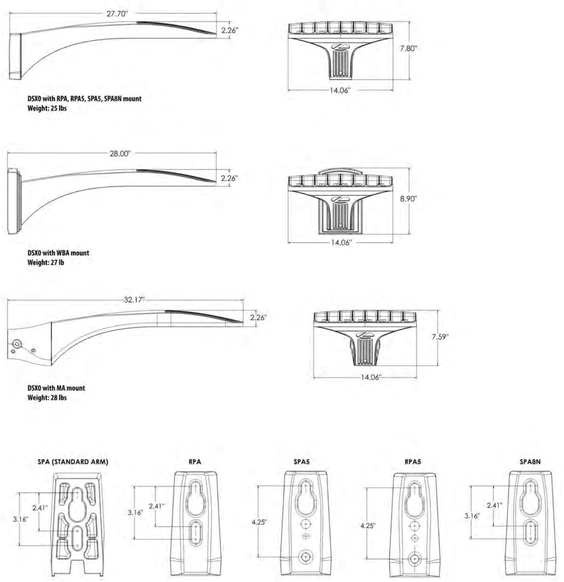
Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics

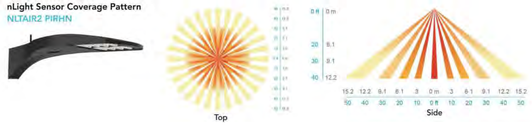
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	40K (3500K, 70 CRI)				40K (4000K, 70 CRI)				50K (5000K, 70 CRI)			
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145
				T3G	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147
				T4G	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134
				T1TM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151
				T5W	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154
				T5G	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109
				RCC0	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				LCC0	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
				T3M	8,768	3	0	3	129	9,138	3	0	3	134	9,316	3	0	3	137
				T3G	7,833	3	0	3	115	8,164	3	0	3	120	8,323	3	0	3	122
				T4M	8,899	3	0	3	131	9,274	3	0	3	136	9,455	3	0	3	139
				T4G	8,093	3	0	3	119	8,435	3	0	3	124	8,599	3	0	3	126
				T1TM	8,962	3	0	3	132	9,340	3	0	3	137	9,522	3	0	3	140
				T5M	9,156	4	0	2	135	9,542	4	0	2	140	9,728	4	0	2	143
				T5W	9,304	4	0	2	137	9,696	4	0	2	143	9,885	4	0	2	145
				T5G	9,182	3	0	1	135	9,569	3	0	1	141	9,756	3	0	1	143
				BLC3	6,378	3	0	3	94	6,647	3	0	3	98	6,777	3	0	3	100
				BLC4	6,587	3	0	3	97	6,865	3	0	3	101	6,999	3	0	3	103
				RCC0	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				LCC0	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				AFR	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
P12	101W	30	1050	T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128
				T3G	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129
				T4G	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118
				T1TM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133
				T5W	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135
				T5G	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96
				RCC0	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				LCC0	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
				T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
				T3M	14,714	4	0	4	114	15,335	4	0	4	119	15,634	4	0	4	121
				T3G	13,145	3	0	3	102	13,700	3	0	3	106	13,967	3	0	3	108
				T4M	14,933	4	0	4	116	15,563	4	0	4	121	15,867	4	0	4	123
				T4G	13,582	3	0	3	105	14,155	3	0	3	110	14,431	3	0	3	112
				T1TM	15,039	4	0	4	117	15,673	4	0	4	122	15,979	4	0	4	124
				T5M	15,364	4	0	2	119	16,013	4	0	2	124	16,325	4	0	2	127
				T5W	15,613	5	0	3	121	16,272	5	0	3	126	16,589	5	0	3	129
				T5G	15,409	3	0	2	120	16,059	3	0	2	125	16,372	4	0	2	127
				BLC3	10,703	4	0	4	83	11,155	4	0	4	87	11,372	4	0	4	88
				BLC4	11,054	4	0	4	86	11,520	4	0	4	89	11,745	4	0	4	91
				RCC0	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				LCC0	10,800	1	0	2	84	11,255	1	0	2	87	11,475	1	0	3	89
				AFR	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130

Dimensions



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern
NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G, low EPA (0.44 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

COASTAL CONSTRUCTION (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations; 80CRI configurations are also available. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS
The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN ACT
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

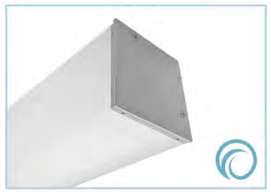
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

BSW755 | FATHOM

bartco LIGHTING BROUGHT TO LIGHT™

4-1/4" square corner mount LED luminaire, outdoor locations

Project: _____ Type: _____



FEATURES

The BSW755 is a corner mount, linear LED luminaire well suited for outdoor lighting. The 4-1/4" x 4-1/4" extruded aluminum housing tucks into architectural junctures and fitted with a two-sided, frosted acrylic lens. When installed, virtually no fixture housing is visible, leaving the evenly illuminated lens to make a strong visual statement.

SPECIFICATIONS

Fixture constructed of an extruded aluminum housing, frosted, extruded acrylic lens and sheet aluminum end caps

Standard finishes as shown below

Available in nominal lengths of 2'-8' single fixtures and continuous runs

Housing provided with a Ø7/8 hole for back feeding

Standard integral 120-277V wet location driver offered with 0-10V dimming or non-dim

Standard outputs are 445, 890 and 1145 lumens per foot

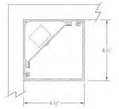
LEDs available in 2700K, 3000K, 3500K, and 4000K, within a 3 step MacAdam ellipse, all with 80+ CRI typical

Life: 50,000 hours L_{70}

Limited five year warranty

UL and C-UL listed for wet locations

SECTION



PERFORMANCE

Note: All data reflects fixtures with 3500K LEDs

NOMINAL LENGTH	OUTPUT	LUMENS/ft.	WATTS/ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
4'	L: low	445	4.0	1774	111
	R: regular	890	8.0	3552	111
	H: high	1145	10.3	4572	111

CERTIFIED Made in USA

BSW755 -

NOMINAL FIXTURE LENGTH*	CORRELATED COLOR TEMPERATURE	DRIVER	LIGHT OUTPUT (lumens per foot)	MOUNT	RUN CONFIGURATION	FINISH
2: 24-5/8"	27: 2700K-80+ CRI	IN: non-dimming	L: low - 445	SM: surface mount	SN: single	AW: architectural white (semi-matte)
3: 36-5/8"	30: 3000K-80+ CRI	ID: 0-10V dimming, 5%	R: regular - 890		ST: starter	WH: white (semi-gloss)
4: 48-5/8"	35: 3500K-80+ CRI		H: high - 1145		AD: adder	BL: black (semi-matte)
5: 60-5/8"	40: 4000K-80+ CRI				TR: terminator	MB: matte black
6: 72-5/8"						ESS: environmental satin silver
7: 84-5/8"						BZ: bronze
8: 96-5/8"						PB: primer
						CF: consult factory for custom finish

* Actual dimension dependent on mounting option and run configuration

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BSW755 | FATHOM

bartco LIGHTING BROUGHT TO LIGHT™

4-1/4" square corner mount LED luminaire, outdoor locations

MOUNTING

ORDERING CODE	DESCRIPTION
SM	SURFACE MOUNT

- Use appropriate fastener through Ø3/16" holes in housing
- Power entry through Ø7/8 hole on the back at an end

EPA CALCULATIONS

LENGTH ORDERING CODE	EPA
2	1.39 ft²
3	2.06 ft²
4	2.75 ft²
5	3.41 ft²
6	4.08 ft²
7	4.75 ft²
8	5.42 ft²

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LS SERIES

Aluminum Fixture Head
with 360 Horizontal & 180 Vertical Rotation

LB

SPEC-00031 UPDATED 07/14/2022

PROJECT: _____

NOTE: _____

MONOPOINT

ELECTRICAL
- 120/277V input
- Integrated power supply allows the fixture to be connected directly into line voltage
- Pre-wired and ready for install
- Dimmable with 120V Incandescent/Triac/ 0-10V dimmers

MOUNTING
- ¾" IP for arm, stem or monopoint options

FINISHES
- Available in 22 standard and 1 specialty finishes with optional coastal coating to protect finish in coastal environments (add "-C" to the finish)
- Consult factory for custom finish options Adjustability
- 360° horizontal and 180° vertical rotation

OPTICS
25°, 45° and 65° optics included

LISTING
UL listed to US and Canadian standards for wet locations

MONOPOINT ORDER MATRIX (EXAMPLE: 3LBMNPTBZ)

Pipe Size	Stem Length	Finish	Coastal Coating
3 (¾" IP)	LBMNP	Available Finish (Use finish code at bottom)	(blank) (No Coating) -C (Coating)

LS SERIES - BULLET HEAD ORDER MATRIX (EXAMPLE: LBLED14TBZ-3)

Diameter	LED	Finish	Coastal Coating	Mounting Type
LB BULLET HEAD	LED14[1,2] (14W LED, 2700K, 90 CRI, 980lm)	ABL (Aegean Blue), BB (Burnished Bronze), BK (Gloss Black), BLU (Blue), DVG (Dove Gray), FLG (Flanner Gray), GA (Galvanized), LG (Lime Green), MB (Matte Black), MBL (Midnight Blue), PNA (Painted Natural Aluminum), PNC (Painted Natural Copper), RD (Red), SGR (Sage Green), SGW (Semi Gloss White), SND (Sand), SS (Satin Silver), TBZ (Textured Bronze), TGP (Textured Graphite), TNG (Tangerine), TTL (Tahitian Teal), WT (Gloss White), YEL (Yellow)	(blank) (No Coating), -C (Coating)	-3 (¾" IP)

1. Lanpro/LED included
2. Lumen are raw LED value

STANDARD FINISHES

ABL (Aegean Blue), BB (Burnished Bronze), BK (Gloss Black), BLU (Blue), DVG (Dove Gray), FLG (Flanner Gray), LG (Lime Green), MB (Matte Black), MBL (Midnight Blue), PNA (Painted Natural Aluminum), PNC (Painted Natural Copper), RD (Red), SGR (Sage Green), SGW (Semi Gloss White), SND (Sand), SS (Satin Silver), TBZ (Textured Bronze), TGP (Textured Graphite), TNG (Tangerine), TTL (Tahitian Teal), WT (Gloss White), YEL (Yellow)

SPECIALTY FINISHES

GA (Galvanized)

1 / 6

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TROY LIGHTING

1

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

PR 2023.02.V2

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

Consultant

120 DEGREEZ MEP ENGINEERING

San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

LIGHTING CUT SHEETS

Project Number: 6360
Drawn By: EU
Issue Date: 02/12/2024

Sheet Number: **E6.01**

DPM: - DM: - CPM: -

File Name: E6.02 LIGHTING CUT SHEETS.dwg Plotted By: Elaine 02/12/2024 [Mon 11:59am]

LS SERIES
Aluminum Fixture Head
with 360° Horizontal & 180° Vertical Rotation

LB	PROJECT:
SPEC-00031 UPDATED 07/14/2022	NOTE:

STEM

STEM MOUNT ORDER MATRIX (EXAMPLE: 3LBS24TBZ)

Pipe Size	Stem Length	Finish	Coastal Coating
3 (¾" IP)	**LBS6** (6")	Available Finish (Use finish code at bottom)	(blank) (No Coating)
	LBS12 (12")		-C (Coating)
	LBS24 (24")		
	LBS36 (36")		

LS SERIES - BULLET HEAD ORDER MATRIX (EXAMPLE: LBLED14TBZ-3)

Diameter	LED	Finish	Coastal Coating	Mounting Type
LB BULLET HEAD	**LED14**[1,2] (14W LED, 2700K, 90 CRI, 980lm)	ABL GA RD TGP BB LG SGR TNG BK MB SGW TTL BLU MBL SND WT DVG PNA SS YEL FLG PNC TBZ	(blank) (No Coating) -C (Coating)	-3 (¾" IP)

1. Lamps/LED included
2. Lumen are raw LED value

STANDARD FINISHES

ABL (Aegean Blue)	FLG (Flannel Gray)	PNC (Painted Natural Copper)	SS (Satin Silver)	WT (Gloss White)
BB (Burnished Bronze)	LG (Lime Green)	RD (Red)	TBZ (Textured Bronze)	YEL (Yellow)
BK (Gloss Black)	MB (Matte Black)	SGR (Sage Green)	TGP (Textured Graphite)	
BLU (Blue)	MBL (Midnight Blue)	SGW (Semi Gloss White)	TNG (Tangerine)	**SPECIALTY FINISHES**
DVG (Dove Gray)	PNA (Painted Natural Aluminum)	SND (Sand)	TTL (Tahitian Teal)	GA (Galvanized)

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LS SERIES
Aluminum Fixture Head
with 360° Horizontal & 180° Vertical Rotation

LB	PROJECT:
SPEC-00031 UPDATED 07/14/2022	NOTE:

MITER ARM

MITER ARM MOUNT ORDER MATRIX (EXAMPLE: 3LBM24TBZ)

Pipe Size	Arm Type	Finish	Coastal Coating
3 (¾" IP)	**LBM18** (Miter Arm - 18")	Available Finish (Use finish code at bottom)	(blank) (No Coating)
	LBM24 (Miter Arm - 24")		-C (Coating)
	LBM30 (Miter Arm - 30")		

LS SERIES - BULLET HEAD ORDER MATRIX (EXAMPLE: LBLED14TBZ-3)

Diameter	LED	Finish	Coastal Coating	Mounting Type
LB BULLET HEAD	**LED14**[1,2] (14W LED, 2700K, 90 CRI, 980lm)	ABL GA RD TGP BB LG SGR TNG BK MB SGW TTL BLU MBL SND WT DVG PNA SS YEL FLG PNC TBZ	(blank) (No Coating) -C (Coating)	-3 (¾" IP)

1. Lamps/LED included
2. Lumen are raw LED value

STANDARD FINISHES

ABL (Aegean Blue)	FLG (Flannel Gray)	PNC (Painted Natural Copper)	SS (Satin Silver)	WT (Gloss White)
BB (Burnished Bronze)	LG (Lime Green)	RD (Red)	TBZ (Textured Bronze)	YEL (Yellow)
BK (Gloss Black)	MB (Matte Black)	SGR (Sage Green)	TGP (Textured Graphite)	
BLU (Blue)	MBL (Midnight Blue)	SGW (Semi Gloss White)	TNG (Tangerine)	**SPECIALTY FINISHES**
DVG (Dove Gray)	PNA (Painted Natural Aluminum)	SND (Sand)	TTL (Tahitian Teal)	GA (Galvanized)

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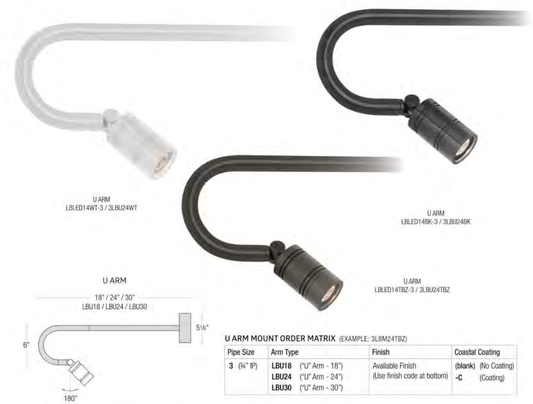
LS SERIES
Aluminum Fixture Head
with 360° Horizontal & 180° Vertical Rotation

LB	PROJECT:
SPEC-00031 UPDATED 07/14/2022	NOTE:

U ARM



U ARM MOUNT ORDER MATRIX (EXAMPLE: 3LBM24TBZ)

Pipe Size	Arm Type	Finish	Coastal Coating
3 (¾" IP)	**LBU18** ("U" Arm - 18")	Available Finish (Use finish code at bottom)	(blank) (No Coating)
	LBU24 ("U" Arm - 24")		-C (Coating)
	LBU30 ("U" Arm - 30")		

LS SERIES - BULLET HEAD ORDER MATRIX (EXAMPLE: LBLED14TBZ-3)

Diameter	LED	Finish	Coastal Coating	Mounting Type
LB BULLET HEAD	**LED14**[1,2] (14W LED, 2700K, 90 CRI, 980lm)	ABL GA RD TGP BB LG SGR TNG BK MB SGW TTL BLU MBL SND WT DVG PNA SS YEL FLG PNC TBZ	(blank) (No Coating) -C (Coating)	-3 (¾" IP)

1. Lamps/LED included
2. Lumen are raw LED value

STANDARD FINISHES

ABL (Aegean Blue)	FLG (Flannel Gray)	PNC (Painted Natural Copper)	SS (Satin Silver)	WT (Gloss White)
BB (Burnished Bronze)	LG (Lime Green)	RD (Red)	TBZ (Textured Bronze)	YEL (Yellow)
BK (Gloss Black)	MB (Matte Black)	SGR (Sage Green)	TGP (Textured Graphite)	
BLU (Blue)	MBL (Midnight Blue)	SGW (Semi Gloss White)	TNG (Tangerine)	**SPECIALTY FINISHES**
DVG (Dove Gray)	PNA (Painted Natural Aluminum)	SND (Sand)	TTL (Tahitian Teal)	GA (Galvanized)

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LS SERIES
Aluminum Fixture Head
with 360° Horizontal & 180° Vertical Rotation

LB	PROJECT:
SPEC-00031 UPDATED 07/14/2022	NOTE:

DUAL ARM

DUAL ARM MOUNT ORDER MATRIX (EXAMPLE: 3LBM24TBZ)

Pipe Size	Arm Type	Finish	Coastal Coating
3 (¾" IP)	**LBD18**[3] (Dual Arm - 18")	Available Finish (Use finish code at bottom)	(blank) (No Coating)
	LBD24[3] (Dual Arm - 24")		-C (Coating)
	LBD30[3] (Dual Arm - 30")		

3. Dual arm requires (2) fixture heads

LS SERIES - BULLET HEAD ORDER MATRIX (EXAMPLE: LBLED14TBZ-3)

Diameter	LED	Finish	Coastal Coating	Mounting Type
LB BULLET HEAD	**LED14**[1,2] (14W LED, 2700K, 90 CRI, 980lm)	ABL GA RD TGP BB LG SGR TNG BK MB SGW TTL BLU MBL SND WT DVG PNA SS YEL FLG PNC TBZ	(blank) (No Coating) -C (Coating)	-3 (¾" IP)

1. Lamps/LED included
2. Lumen are raw LED value

STANDARD FINISHES

ABL (Aegean Blue)	FLG (Flannel Gray)	PNC (Painted Natural Copper)	SS (Satin Silver)	WT (Gloss White)
BB (Burnished Bronze)	LG (Lime Green)	RD (Red)	TBZ (Textured Bronze)	YEL (Yellow)
BK (Gloss Black)	MB (Matte Black)	SGR (Sage Green)	TGP (Textured Graphite)	
BLU (Blue)	MBL (Midnight Blue)	SGW (Semi Gloss White)	TNG (Tangerine)	**SPECIALTY FINISHES**
DVG (Dove Gray)	PNA (Painted Natural Aluminum)	SND (Sand)	TTL (Tahitian Teal)	GA (Galvanized)

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LS SERIES
Aluminum Fixture Head
with 360° Horizontal & 180° Vertical Rotation

LB	PROJECT:
SPEC-00031 UPDATED 07/14/2022	NOTE:

FINISHES

STANDARD FINISHES

SPECIALTY FINISHES

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Project:
Location:
Fixture Type:
Catalog Number:

AVAILABLE FINISHES:

Double Down
WS-W13718

PRODUCT DESCRIPTION

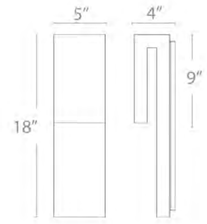
Two thin planks of precisely wrought aluminum are stacked against each other on this smart exterior sconce, a welcoming luminaire when placed at the entrance to a hotel or modern home.Its clean, simple profile and understated finishes achieve peak minimalism, while the cutting-edge LEDs inside are top of the line for powerful, energy-efficient, long-lastingillumination. With this luminaire, the odds are definitely in your favor.

FEATURES

- Driver concealed within the fixture
- Weather resistant finish

SPECIFICATIONS

Rated Life	50000 Hours
Standards	ETL, cETL,Wet Location Listed,IP65,ADA
Input	120-277V,50/60Hz
Dimming	ELV
Color Temp	3000K
CRI	90
Construction	Aluminum hardware



Model & Size	Color Temp	Finish	LED Watts	LED Lumens	Delivered Lumens
WS-W13718 18"	3000K	BK Black	10.8W	300	286
	3000K	GH Graphite	10.8W	300	286

Example: **WS-W13718-GH**

For custom requests please contact customs@modernforms.com

ModernForms.com | Phone: (866) 810-6615 | Fax (800) 526-2585
Central Distribution Center: 1600 Distribution Ct, Lithia Springs, GA 30122
Western Distribution Center: 1750 Archibald Avenue, Ontario, CA 91760

MODERN FORMS

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

PROTOTYPE - NEW CONSTRUCTION

Panera BREAD

Consultant

120 DEGREEZ MEP ENGINEERING

San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

LIGHTING CUT SHEETS

Project Number: 6360
Drawn By: EU
Issue Date: 02/12/2024

Sheet Number: **E6.02**

DPM: - DM: - CPM: -

PR 2023.02.12

File Name: E6.03 LIGHTING CUT SHEETS.dwg Plotted By: Elaine 02/12/2024 [Mon 11:59am]

BLADE BLD

Vandal Resistant

BLD LED

Fixture Type | Date

Job Name | Approved By

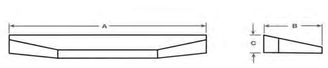
Catalog Number

SPECIFICATIONS

Description	The Blade BLDcombines a sleek, patent pending design shaped with high performance, full cut off optics to achieve unobtrusive illumination of a space or path of egress. When mounted over a doorway or mullion, the fixture is perceived as an element of the building structure, and, additionally, provides water protection in the form of a drip cap over the entranceway. Multiple lengths are available to match a given door opening and our quick-mount system facilitates installation and maintenance.
Housing	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Wall Mount	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.
Lens Frame	Marine grade heat treated extruded aluminum. Secured to fixture (4) captive stainless steel TORX® head screws.
Lens	Extruded UV stabilized opal polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.
End Plate	Die-cast marine grade aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Drivers	Dimming to 1%, 10% or Programable Lumen Output driver options. Non-Dimming Driver is also available.
LED	Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L70 projected life of over 130,000 hours at 50°C.
Gaskets	Closed cell self-adhesive neoprene to provide watertight seal between fixture and mounting surface.
UL Listing	U.L., C.UL. Wet Location Listing standard.
Buy American Act	Luminaire LED, LLC products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.
Warranty	**Lifetime** warranty, Luminaire LED incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. **10-year** warranty on LED boards against operational defects. Tested in accordance with LM-80. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.
Note	Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. The product images shown are for illustration purposes only and may not be an exact representation of the product. Specifications subject to change without notice.

DIMENSIONAL DATA

	A	B	C
BLD12	20.0"	5.6"	2.4"
BLD24	30.8"	5.6"	2.4"
BLD36	41.6"	5.6"	2.4"
BLD48	52.4"	5.6"	2.4"
BLD72	74.0"	5.6"	2.4"



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BLADE BLD

Vandal Resistant

BLD LED

ORDERING INFORMATION

Example: BLD 48IN MIN1 35W 27K 120 CLP WHT

Series*	Size (Nominal)**	Drivers*		Dual Drivers	Wattage (Nominal)†			Lumens (For PRD Only)
BLD Mullion Mountable Vandal Resistant Full Cut-off Path of Egress Luminaire	12IN[1,2] 24IN[3,4,5] 36IN[1] 48IN[4] 72IN	MIN1 Dimming to 1% MIN10 Dimming to 10% NODIM Non-Dimming Driver PRD Driver Programmed to Specific Lumen Output Consult Factory *PRD not available with Wattage* *PRD standard 0-10V dimming to 1%*		2DRV[6,12] Two LED drivers for independent LED board operations.	5W 20W 55W 10W 30W 15W 35W *Required for all drivers except PRD driver.*			200LM - 6300LM - Lumens available in 100LM increments. *Lumens required if PRD driver chosen*

CCT*		Voltage*		Lens*		Finish*	
27K	2700K	120	120 Volt	DP	Diffused Polycarbonate	BLK	Black
30K	3000K	277	277 Volt			WHT	White
35K	3500K	MVOLT	120-277 Volt			BRZ	Bronze
40K	4000K	347[11,13]	347 Volt			GRY	Gray
50K	5000K					SIL	Silver
						CUST	Custom Color, Consult Factory
						RALTBD	Ral Paint finishes
						RALTBD for pricing only. Replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options	

*Required

OPTIONS

Emergency[17]	
EMB310	Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). 1000 lumens
EMB310ST	Self-testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens
EMB310T20	Self contained, 90 minute emergency battery pack. 0°C (32°F) to 50°C (131°F). Meets CA Title 20 standards. 1000 lumens
EMB10ST	Self-testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens
EMBDA[14,15]	Two drivers and two emergency battery packs self-contained within fixture for independent light engine operation. Each battery pack will operate each light engine for a minimum of 90 minutes
EMB20R[16,18]	Remote mounted micro inverter that will operate a 25W maximum load for 90 min. 0°C (32°F) to 45°C (113°F)
EMB125R[18]	Remote inverter that will operate a maximum 125W load for 90 min. 20°C (68°F) to 30°C (86°F)
EMB250R[18]	Remote inverter that will operate a 250W maximum load for 90 min. 20°C (68°F) to 30°C (86°F)

Knockout		Fusing		Photocell		Sensors		Hardware	
KO2	Optional mouse hole in both end caps for accessing 1/2" knockout.	GLR[11]	Fuse and Fuse Holder.	PC[11,17]	Photoelectric Switch.	PIR[19]	Passive Infrared Occupancy Sensor/Daylight Harvesting Photocell. Maximum coverage 10' radius from 8' height.	PHSC	Phillips Head instead of TORX® head
						PIR5O[3,15,19]	Passive Infrared Occupancy Sensor/Daylight Harvesting Photocell. Maximum coverage 10' radius from 8' height. 50% of LED's constantly on and 50% sensored on/off		
							RCHRC required for Field Adjustable Settings		

Ordering Notes
1. See Size and Wattage Chart
2. Not available with EMB10ST, EMB310, EMB310ST, or EMB310T20
3. 12IN with MIN1 or PRD; Not available with PIR
4. Not available with MIN1 or PRD and EMB10ST, EMB310, EMB310ST, or EMB310T20
5. Not available with 2DRV and PIR or PIR5O
6. Not available with PIR or PIR5O and EMB10ST, EMB310, EMB310ST, or EMB310T20
7. 36IN with MIN1 or PRD; Not available with 2DRV and EMB10ST, EMB310, EMB310ST, EMB310T20
8. 48IN with MIN1 or PRD; Not available with 2DRV and PIR or PIR5O and EMB10ST, EMB310, EMB310ST, or EMB310T20
9. Not available with 12IN
10. 24IN with 2DRV; Not available with EMB10ST, EMB310, EMB310ST, or EMB310T20
11. Not available with PIR or PIR5O
12. Not available in 24IN with 2DRV
13. Not available with 347
14. Only available in 72IN
15. Not available with Wattage or 25W or PRD
16. Not available with MVOLT
17. Not available with MVOLT or 347
18. Not available with EMB20R, EMB125R, EMB250R
19. Must include 25RW

Accessories: *Order as separate catalog number.*	
TXSD	TORX® Screwdriver Bit *Initial shipment includes one (1) TXSD per fixture*
RCHRC	Remote Control for Field Adjustable Sensor Settings *One (1) RCHRC per Job for PIR/PIR5O Sensor, Optional*

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BLADE BLD

Vandal Resistant

BLD LED

SIZE & WATTAGE CHART

Size	Wattage
12IN	5W | 10W
24IN	10W | 20W
36IN	15W | 30W
48IN	20W | 35W
72IN	30W | 55W

SIZE & LUMEN CHART (For PRD!)

Size	Lumen Range
12IN	200LM - 1000LM
24IN	400LM - 2100LM
36IN	600LM - 3100LM
48IN	800LM - 4100LM
72IN	1200LM - 6300LM

PHOTOMETRIC DATA

Model	Watts	Input Watts	Delivered Lumens				
			2700K	3000K	3500K	4000K	5000K
BLD 12IN	5W	6.5W	447	452	461	476	490
BLD 12IN	10W	11.8W	875	885	903	931	958
BLD 24IN	10W	10.6W	962	973	993	1024	1055
BLD 24IN	20W	21.3W	1885	1907	1946	2006	2066
BLD 36IN	15W	14.7W	1444	1461	1491	1537	1583
BLD 36IN	30W	29.6W	2828	2860	2919	3009	3099
BLD 48IN	20W	19.6W	1926	1948	1987	2049	2111
BLD 48IN	35W	36.4W	3770	3812	3890	4011	4132
BLD 72IN	30W	29.4W	2969	3003	3064	3159	3254
BLD 72IN	55W	57.1W	5789	5855	5974	6184	6345
BLD xxIN	PRD		Programmable Driver. Must Specify Lumens in Ordering Information, see Chart above.				

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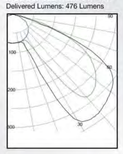
BLADE BLD

Vandal Resistant

BLD LED

PHOTOMETRIC DATA

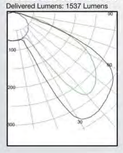
MODEL: BLD 12IN 5W 40K
Delivered Lumens: 476 Lumens



IES FILE: BLD 12IN 5W 40K *Testing was performed in accordance with IES LM-79-08*
Total Power: 7W *Bug Rating: B0U0G1*

Zone	Lumens	% Luminaire
0 - 30	69	14.5
0 - 40	149	31.1
0 - 60	359	75.5
60 - 90	117	24.5
0 - 90	476	100.0
90 -180	0	0.0
0 - 180	476	100.0

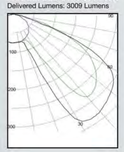
MODEL: BLD 36IN 15W 40K
Delivered Lumens: 1537 Lumens



IES FILE: BLD 36IN 15W 40K *Testing was performed in accordance with IES LM-79-08*
Total Power: 14.7W *Bug Rating: B0U0G1*

Zone	Lumens	% Luminaire
0 - 30	377	124.5
0 - 40	640	41.6
0 - 60	1219	79.3
60 - 90	317	20.7
0 - 90	1537	100.0
90 -180	0	0.0
0 - 180	1537	100.0

MODEL: BLD 36IN 30W 40K
Delivered Lumens: 3009 Lumens



IES FILE: BLD 36IN 30W 40K *Testing was performed in accordance with IES LM-79-08*
Total Power: 29.6W *Bug Rating: B1U0G1*

Zone	Lumens	% Luminaire
0 - 30	739	24.6
0 - 40	1253	41.6
0 - 60	2387	79.3
60 - 90	622	20.7
0 - 90	3009	100.0
90 -180	0	0.0
0 - 180	3009	100.0

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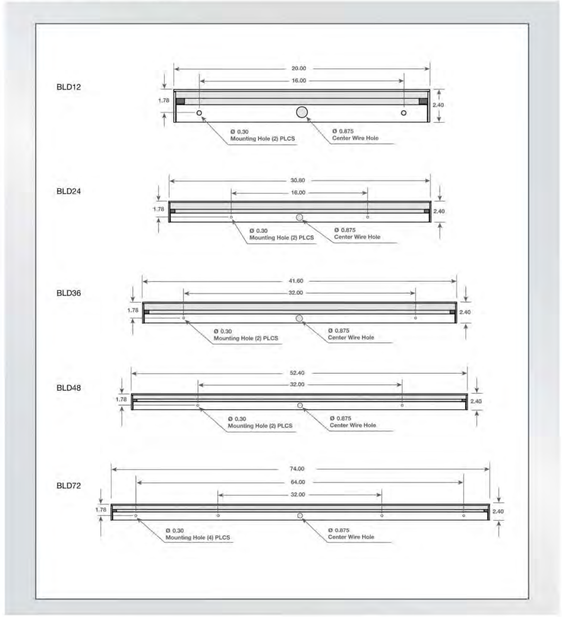
BLADE BLD

Vandal Resistant

BLD LED

MOUNTING PLATE DETAILS



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Fixture Number					
Project Title		Type		Qty	
Comments					

CAMMAN LIGHTING

- Metal Body with Indirect Lighting
- Wet Location
- ADA

Dimensions and Lamping:

OW610-24 2.75"A x 24" B x 3" D x 12" MC.....Weight: 7 lbs.
LN LED: Nominal 20W, 1400 Delivered Lumens

OW610-36 2.75"A x 36" B x 3" D x 18" MC.....Weight: 8.5 lbs.
LN LED: Nominal 30W, 2400 Delivered Lumens

OW610-48 2.75"A x 48" B x 3" D x 24" MC.....Weight: 10 lbs.
LN LED: Nominal 40W, 3400 Delivered Lumens

OW610-60 2.75"A x 60" B x 3" D x 30" MC.....Weight: 11.5 lbs.
LN LED: Nominal 50W, 4400 Delivered Lumens

LED Color Temperature:

35K 3500K **30K** 3000K **40K** 4000K

Control:

CLV Integral Power Supply, 0-10V Dimming to 1%

Voltage:

1 120V **2** 277V **MV** Multi-Volt

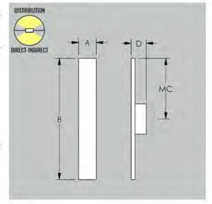
Standard Finishes:

PAL	Aluminum	**PBB**	Brushed Brass	**POR**	Pure Orange (RAL 2004)
PNL	Nickel	**PAB**	Antique Brass	**PYL**	Traffic Yellow (RAL 1023)
PBR	Bronze	**PHB**	Hammered Bronze	**PGR**	Emerald Green (RAL 6001)
PLB	Light Bronze	**PHC**	Hammered Copper	**PBL**	Signal Blue (RAL 5005)
PMB	Medium Bronze	**PHS**	Hammered Silver	**STBD**	To Be Determined
PDB	Dark Bronze	**PSG**	Satin Gold		
PSB	Satin Black	**PPA**	Patina		
PMW	Matte White	**PRD**	Traffic Red (RAL 3020)		

Other Options:

REM Remote Emergency Power Supply

OW610 | Carlisle



Notes:

- Custom sizes and finishes available upon request.
- Camman reserves the right to make design changes without prior notice.
- Mounting is to a 2 x 4 inch rectangular junction box.
- Photometric information is available at cammanlighting.com

www.cammanlighting.com Page 1 / 2 724-539-7670

1

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

AO Architecture. Design. Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

Consultant

120 DEGREEZ MEP ENGINEERING
San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

LIGHTING CUT SHEETS

Project Number: 6360
Drawn By: EU
Issue Date: **02/12/2024**
Sheet Number: **E6.03**

DPM: - DM: - CPM: -

PR 2023.02.12

File Name: E6.04 LIGHTING CUT SHEETS.dwg Plotted By: Elaine 02/12/2024 [Mon 11:59am]

Additional Information

Color Temperature Adjustment	
Color Temperature	**Multiplier**
2700K	.967
3000K	.984
3500K	1.000
4000K	1.032

LED Performance	
Color Rendering Index	80CRI Standard (90CRI Available)
L70 (Projected):	>72,000 hours

Warranty	5 years (electrical components retain the component manufacturer warranty).

Camman Plus Customizations

Camman **Standard Plus** products provide an extra degree of freedom to customize most standard products, including dimensions, finish, performance, and adding or removing details. Visit www.cammanlighting.com/plus to learn more about the Plus program, and visit this fixture to see what specific options might be available.

Standard Finishes

MODERN

PAL Aluminum · **PNL** Nickel · **PSB** Satin Black · **PMW** Matte White

NEUTRAL

PAB Antique Brass · **PBB** Brushed Brass · **PSG** Satin Gold · **PLB** Light Bronze · **PMB** Medium Bronze · **PBR** Bronze · **PDB** Dark Bronze

TEXTURES

PHS Hammered Silver · **PHB** Hammered Bronze · **PHC** Hammered Copper · **PPA** Patina

COLORS

PRD Traffic Red (RAL 3020) · **POR** Pure Orange (RAL 2004) · **PYL** Traffic Yellow (RAL 1023) · **PGR** Emerald Green (RAL 6001) · **PBL** Signal Blue (RAL 5005)

- Colors are for reference only and may vary per monitor.
- See cammanlighting.com/resources for more information, or contact your local rep for finish samples.

CAMMAN LIGHTING

ZANEEN.

TETRA PARCO POST

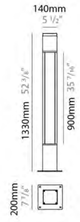
L9B134- ____ - ____
Base number · Color Temperature · Finish Options

1. To build a product code in our configurator select the specify button on the base model's product page.
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

GENERAL
Series: Tetra
Subseries: Tetra Parco
Brand: Platek
Division: Exterior
Mounting Type: Post
Mounting Location: Above Ground
Subcategory: Bollard

PHYSICAL
Shape: Rectangle
Length (mm): 140
Length (in): 5 ½
Width (mm): 140
Width (in): 5 ½
Height (mm): 1330
Height (in): 52 ⅜
Light Distribution: Direct
Weight (kg): 12
Weight (lbs): 26.46
Screws: A4 stainless steel
Diffuser: Clear tempered glass
Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ
Fixture Material: Extruded Aluminum



ELECTRICAL
Lamp Type: LED
Input Wattage (W): 28
Total Output Wattage (W): 24
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - 120 / 277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 700
Upon Request: Remote: 0-10Vdc dimming

LED
Color Temperature (°K): 3000 / 4000
Max. Delivered Lumen (lm): 1620 / 1685
Nominal Lumen (lm): 3685 / 3830
CRI: >80 CRI
Lamp Life (hrs): 60000

RATINGS AND CERTIFICATIONS
Certified By: Certified for North American Standards
IP rating: IP65
IK Rating: IK10

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Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.
In a constant effort to supply the best product, we reserve the right to change specifications or materials without notice. The most recent specification sheets are found at zaneen.com

December 8, 2023, 4:58 pm

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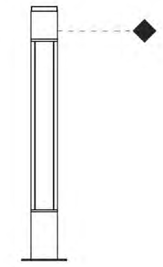
TETRA PARCO POST

L9B134-

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



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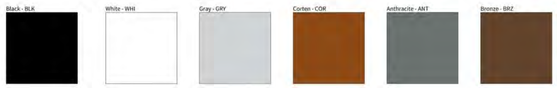
TETRA PARCO POST

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

Fixture Finish

Black - BLK · White - WHI · Gray - GRY · Corten - COR · Anthracite - ANT · Bronze - BRZ



Digital: Not all screens are calibrated the same, and therefore, colors will appear differently between screens.
Physical: When texture is involved, there will be variations in color, character and tone within a product series and between product families.

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ZANEEN.

TETRA PARCO POST

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

LEGEND

floor-mounted	pivotable	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, arts, fashion+
wall and ceiling: recessed and surface mounted	rotating	warm dim / natural dimming LED
ceiling-mounted and wall-mounted	illuminate tilted	rechargeable battery powered
wall-mounted	color of suspension cable	fixture with natural vivid LED (upon request)
omni-directional light distribution	length of suspension cable	color rendering index
direct light distribution	reflector degree selection	color temperature
direct/indirect light distribution	super spot	lumen (luminous flux)
indirect light distribution	lens	efficacy (lumens per watt)
asymmetric light distribution	lens pack	Unified Glare Rating (UGR) range from 5-40
aura light distribution	shine ring	marine grade (AISI 316 stainless steel)
round wall or ceiling cut-out	integrated shine ring with diffuser	walk on
square wall or ceiling cut-out	free individual colors 01-29	drive on
the supplied jig specifies the cutout dimensions	individual colors: 00 (free of charge), 01-25 (extra charge)	Dark Sky Compliance
minimum distance (meters) lamp - object	luminaire part to be colored (F1)	Americans with Disabilities Act (less than 4° off the wall located between 27°-84° from floor)
recessed depth	luminaire part to be colored (F2)	lamp protected against explosion
ceiling thickness in mm	luminaire part to be colored (F3)	blown glass using traditional methods by master glass blower
ceiling thickness selection	luminaire part to be colored (F4)	acoustic material
dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)	luminaire part to be colored (F5)	protection class I, protection insulation
included or excluded LED driver/transformer/ control gear	color of 3-circuit adaptor	protection class II, protection insulation
separately switchable	indirect diffuser	ETL Certified to UL and CSA Standards
sensor	direct diffuser	UL Certified to UL and CSA Standards
remote control	ball-proof (upon request)	CSA Certified to UL and CSA Standards
available upon request	accessory	Certified for North American Standards

IP RATING

IP0	protected against ingress of solid bodies greater than 12.5mm (finger)
IP1	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
IP2	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
IP3	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
IP4	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
IP5	protected against limited ingress of dust (wet room/covered outdoor areas) protected against water splashed from all directions
IP6	protected against ingress of dust protected against jets of water
IP7	protected against ingress of dust protected against powerful jets of water or heavy seas
IP8	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
IP9	protected against ingress of dust protected against immersion of water under pressure for long periods

IK RATING

IK0	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
IK1	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
IK2	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
IK3	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
IK4	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
IK5	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
IK6	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
IK7	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
IK8	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
IK9	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)

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December 8, 2023, 4:58 pm

Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

Panera BREAD

Consultant

120 DEGREEZ MEP ENGINEERING

San Diego | Los Angeles
www.120degreez.com
619.323.1515 | 310.364.5228
Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

LIGHTING CUT SHEETS

Project Number: 6360
Drawn By: EU
Issue Date: **02/12/2024**
DPM: - DM: - CPM: -

Sheet Number: **E6.04**

PR 2023-02-12

PLANT PALETTE

Symbol	Botanical Name	Common Name	WUCOLS
TREES			
	Koelreuteria bipinnata - street tree per city guidelines	Chinese Lantern Tree	Mod
	Magnolia g. 'Kay Parris'	Kay Parris Magnolia	Mod
	Olea europaea 'Swan Hill'	Fruitless Olive	Low
	Parkinsonia florida	Blue Palo Verde	Low
Symbol	**Botanical Name**	**Common Name**	**WUCOLS**
SHRUBS/ GROUNDCOVERS			
	Bouteloua g. 'Blonde Ambition'	Blue Grama	Low
	Lavandula spp.	Lavender	Low
	Westringia fruticosa	Coast Rosemary	Low
ACCENT PLANTINGS			
	Agave spp.	Agave	Low
	Bulbine frutescens 'Hallmark'	Stalked Bulbine	Low
	Dasyliron wheeleri	Desert Spoon	Low
	Salvia spp.	Silver sage, Autumn sage	Low
BIO-BASIN PLANTINGS			
	Carex spp.	Carex	Low
	Helictotrichon sempervirens	Blue Oat Grass	Low
	Mulhenbergia Spp.	Deer Grass	Low
	Juncus patens	California Grey Rush	Low
SCREEN SHRUBS- MIN. 3FT HIGH			
	Callistemon viminalis 'Little John'	Little John Callistemon	Mod
	Ligustrum japonicum	Texas Privet	Low
	Myrtus communis	Common Myrtle	Mod

NOTES:

PLANT MATERIAL NOT LISTED MAY BE USED, SUBJECT TO APPROVAL BY THE CITY.

ALL LANDSCAPE PLANS AND INSTALLATIONS SHALL ADHERE TO CITY DESIGN GUIDELINES, CODES AND REGULATIONS.

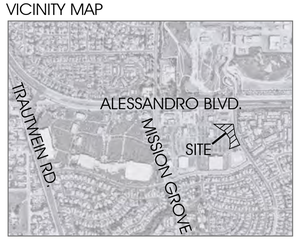
ALL LANDSCAPE AREAS SHALL RECEIVE AUTOMATIC IRRIGATION SYSTEM.

ALL LANDSCAPE INSTALLATION SHALL BE PERMANENTLY MAINTAINED.

PARKING STALL TO TREE RATIO 1 TREE TO 4 STALLS
PARKING STALLS = 37
TOTAL TREES NEEDED = 9
TOTAL TREES PROVIDED = 14

PROPOSED LANDSCAPE PERCENTAGE
LANDSCAPE MINIMUM 5% AT PARKING STALLS
PROPOSED LANDSCAPE PROVIDED = 17,033sf
PROPOSED LANDSCAPE PROVIDED AT PARKING LOT = 10,530sf

VICINITY MAP



CONCEPTUAL LANDSCAPE PLAN

PANERA BREAD AT MISSION GROVE PLAZA
RIVERSIDE, CA

SCALE 1" = 20'
0 5 10 20 40

CDPC PROJECT #: 23061
FEBRUARY 12, 2024

conceptual design & planning company
Corporate Office:
3199-C Airport Loop Drive
Studio One
Costa Mesa, CA 92626
T: 949.399.0870
www.cdpcinc.com
COSTA MESA / ATASCADERO / LAS VEGAS

L-1

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

TREE(S)

Koelreuteria bipinnata
Chinese Lantern Tree

Magnolia g. 'Kay Parris'
Kay Parris Magnolia

Olea europaea 'Swan Hill'
Fruitless Olive

Parkinsonia florida
Blue Palo Verde

SHRUBS AND GROUNDCOVERS

Bouteloua g.
'Blonde Ambition'
Blue Grama

Lavendula spp.
Lavender

Westringia fruiticosa
Coast Rosemary

BIOSWALE PLANTING

Carex spp.
Carex

Helictotrichon sempervirens
Blue Oat Grass

Juncus patens
California Grey Rush

Mulhenbergia spp.
Deer grass

ACCENT PLANTING

Agave spp.
Agave

Bulbine frutescens 'Hallmark'
Stalked Bulbine

Dasyliron wheeleri
Desert Spoon

Salvia spp.
Silver Sage, Autumn Sage

SCREENING SHRUBS

Callistemon viminalis 'Little John'
Little John Callistemon

Ligustrum japonicum
Texas Privet

Myrtus communis
Common Myrtle

CONCEPTUAL LANDSCAPE PLAN - PLANT IMAGE BOARD

PANERA BREAD AT MISSION GROVE PLAZA
RIVERSIDE, CA

SCALE 1" = 20'
0 5 10 20 40

CDPC PROJECT #: 23061
FEBRUARY 12, 2024

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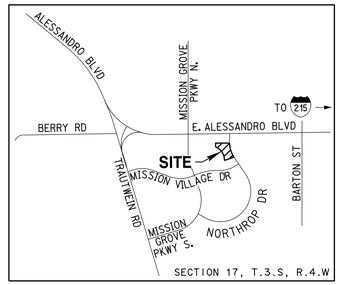
PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

IN THE CITY OF RIVERSIDE, CA

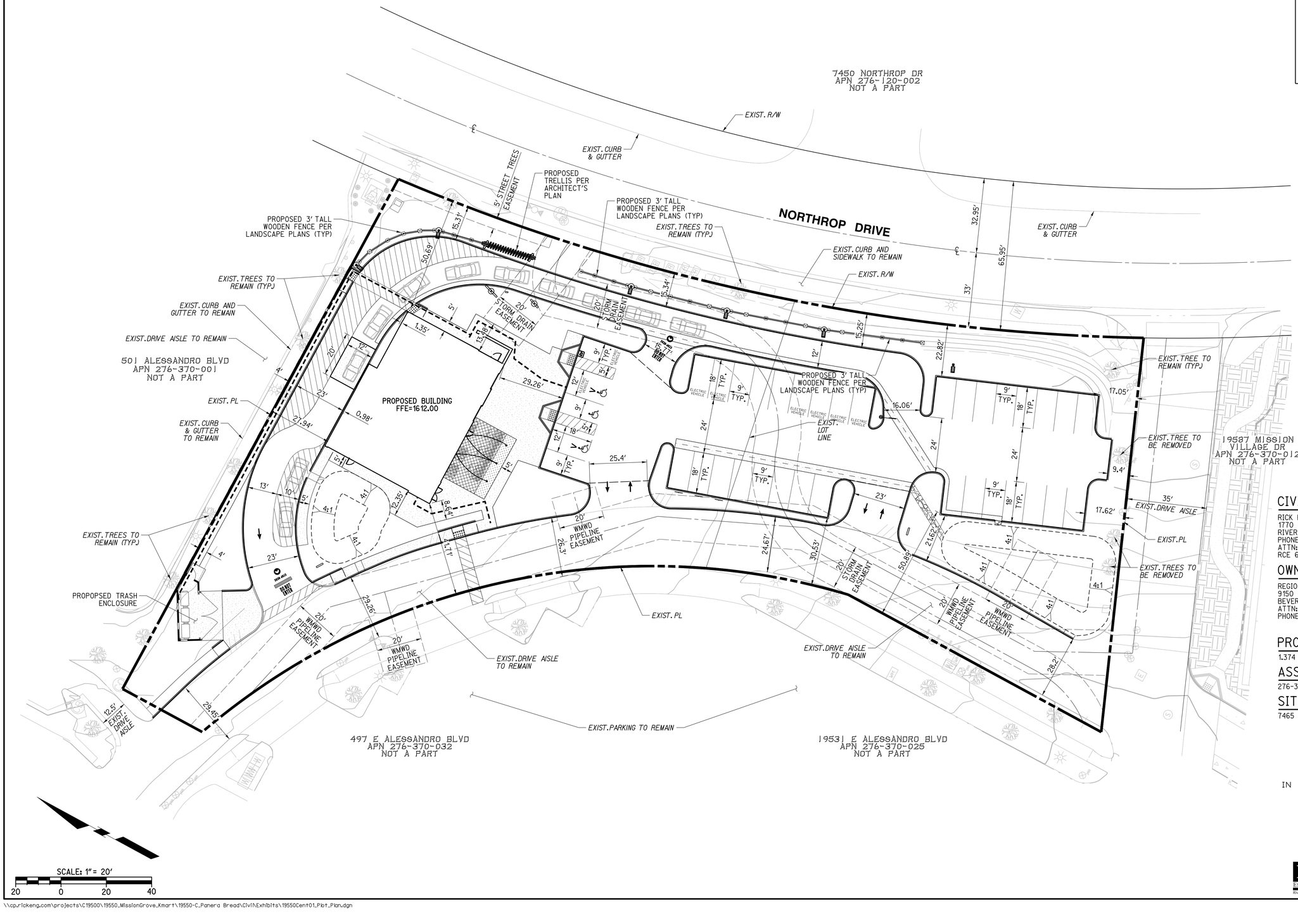
PLOT PLAN

PANERA BREAD - MISSION VILLAGE PLAZA



VICINITY MAP

N.T.S.



SCALE: 1" = 20'

20 0 20 40

LEGEND

- EXISTING FIRE HYDRANT
- EXISTING LIGHT
- EXISTING SEWER MANHOLE
- EXISTING SIGN
- EXISTING WATER METER
- EXISTING WALL
- EXISTING SHRUBS
- EXISTING TREE
- PROPOSED CONCRETE
- PROPOSED AC PAVEMENT
- PROPOSED DECORATIVE PAVERS
- PROPOSED STRIPING
- PROPOSED RIBBON GUTTER
- PROPOSED CURB
- PROPOSED PATH OF TRAVEL
- PROJECT BOUNDARY

CIVIL ENGINEER

RICK ENGINEERING COMPANY
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
PHONE: (951) 782-0707
ATTN: KRISTIN WERKSMAN, RCE 69317

ARCHITECT

CIVIL & ENVIRONMENTAL CONSULTANTS, INC
3000 LITTLE HILLS EXPRESSWAY, SUITE 102
ST CHARLES, MO 63301
PHONE: (314) 656-4566

OWNER/DEVELOPER

REGIONAL PROPERTIES, INC.
9150 WILSHIRE BLVD, SUITE 210
BEVERLY HILLS, CA 90212
ATTN: MICHELLE RUBIN
PHONE: (310) 553-7846

PROJECT ACREAGE

1.374 AC - 59,851 SF

ASSESSOR'S PARCEL NUMBER

276-370-014 & 276-370-013

SITE ADDRESS

7465 & 7515 NORTHROP DRIVE, RIVERSIDE CA, 92506

PLOT PLAN
PANERA BREAD
MISSION VILLAGE PLAZA

CITY OF RIVERSIDE
IN THE COUNTY OF RIVERSIDE, CALIFORNIA

DATE PREPARED: JUNE 29, 2023

DATE REVISED: NOVEMBER 6, 2023
JANUARY 25, 2024

SHEET 1 OF 4

RICK ENGINEERING COMPANY Riverside
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707
(FAX)951.782.0723
rickengineering.com
San Diego • Orange • San Luis Obispo • Bakersfield • Sacramento • Phoenix • Tucson

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\\cp.rickeng.com\projects\C19500\19550_MissionGrove_Kmart\19550-C_Panera Bread\Civil\Exhibits\19550Cent01_Plot_Plan.dgn

PLOT DATE: 25-JAN-2024 JN 19550C

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS

IN THE CITY OF RIVERSIDE, CA

PRELIMINARY GRADING PLAN

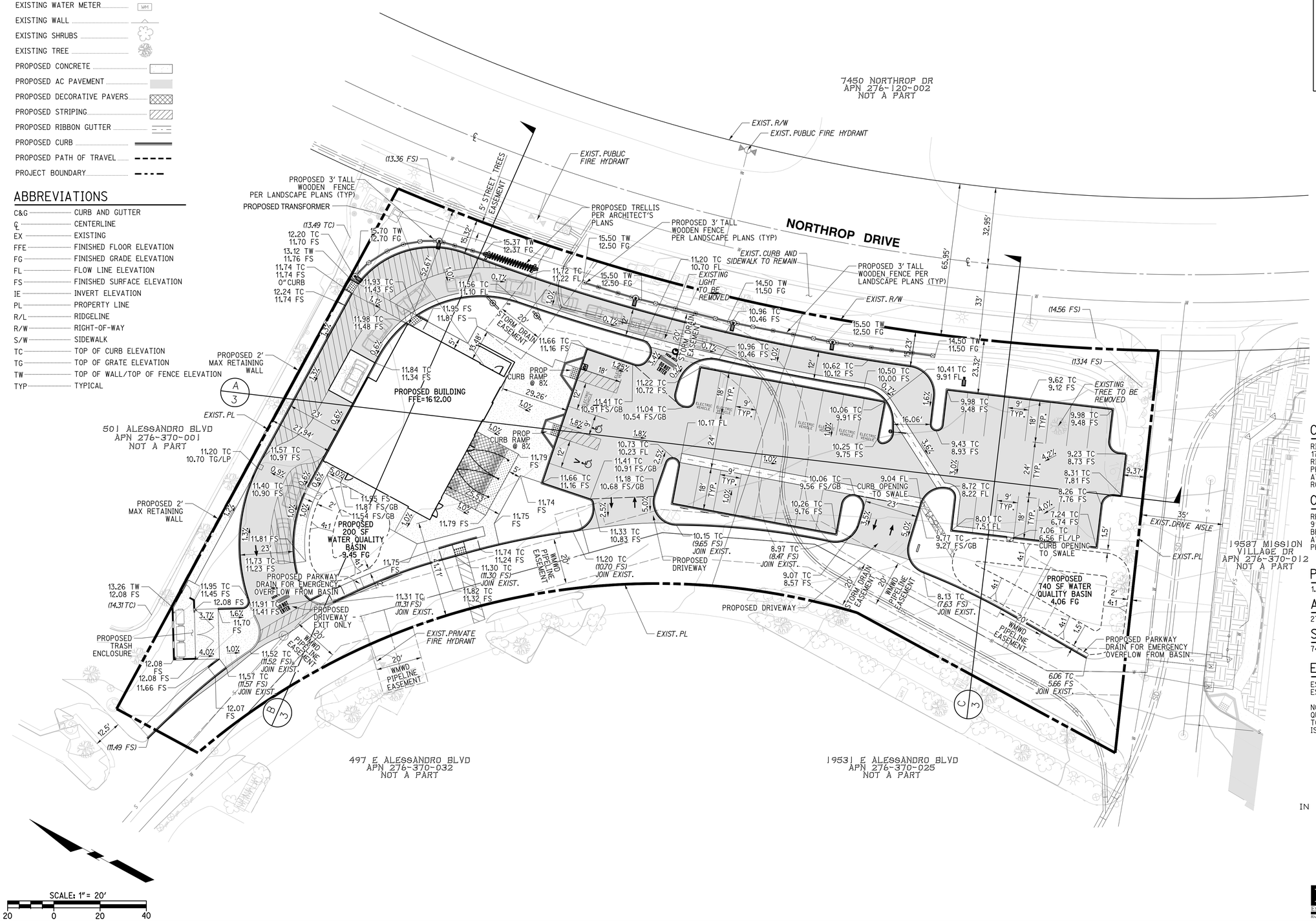
PANERA BREAD - MISSION VILLAGE PLAZA

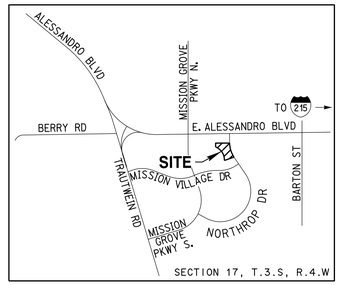
LEGEND

- EXISTING FIRE HYDRANT
- EXISTING LIGHT
- EXISTING SEWER MANHOLE
- EXISTING SIGN
- EXISTING WATER METER
- EXISTING WALL
- EXISTING SHRUBS
- EXISTING TREE
- PROPOSED CONCRETE
- PROPOSED AC PAVEMENT
- PROPOSED DECORATIVE PAVERS
- PROPOSED STRIPING
- PROPOSED RIBBON GUTTER
- PROPOSED CURB
- PROPOSED PATH OF TRAVEL
- PROJECT BOUNDARY

ABBREVIATIONS

C&G	CURB AND GUTTER
℄	CENTERLINE
EX	EXISTING
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE ELEVATION
FL	FLOW LINE ELEVATION
FS	FINISHED SURFACE ELEVATION
IE	INVERT ELEVATION
PL	PROPERTY LINE
R/L	RIDGELINE
R/W	RIGHT-OF-WAY
S/W	SIDEWALK
TC	TOP OF CURB ELEVATION
TG	TOP OF GRATE ELEVATION
TW	TOP OF WALL/TOP OF FENCE ELEVATION
TYP	TYPICAL





VICINITY MAP

N.T.S.

SCALE: 1" = 20'

20 0 20 40

CIVIL ENGINEER

RICK ENGINEERING COMPANY
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
PHONE: (951) 782-0707
ATTN: KRISTIN WERKSMAN,
RCE 69317

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PROJECT ACREAGE

1.374 AC - 59,851 SF

ASSESSOR'S PARCEL NUMBER

276-370-014 & 276-370-013

SITE ADDRESS

7465 & 7515 NORTHROP DRIVE, RIVERSIDE CA, 92506

ESTIMATED GRADING QUANTITIES

ESTIMATED EXCAVATION:	X,XXX C.Y.
ESTIMATED EMBANKMENT:	X,XXX C.Y.

NOTE: THE GRADING QUANTITIES SHOWN HEREON ARE RAW QUANTITIES FOR PERMIT PURPOSES ONLY AND ARE NOT TO BE USED FOR FINAL PAY QUANTITIES. THIS PROJECT IS DESIGNED TO BALANCE.

PRELIMINARY GRADING PLAN
PANERA BREAD
MISSION VILLAGE PLAZA

CITY OF RIVERSIDE
IN THE COUNTY OF RIVERSIDE, CALIFORNIA

DATE PREPARED: JUNE 29, 2023

DATE REVISED: NOVEMBER 6, 2023
JANUARY 25, 2024

SHEET 2 OF 4

RICK ENGINEERING COMPANY
Riverside
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
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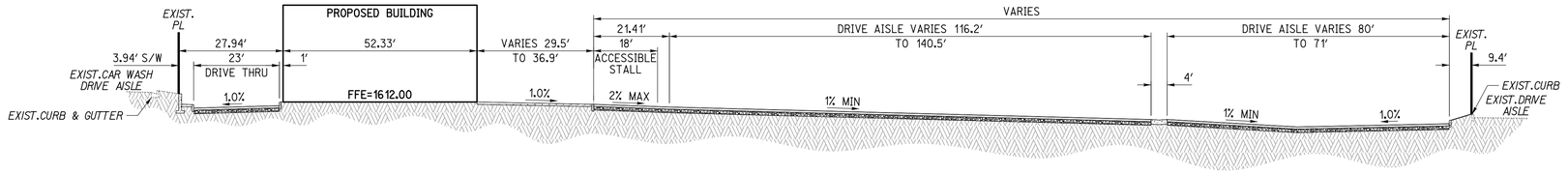
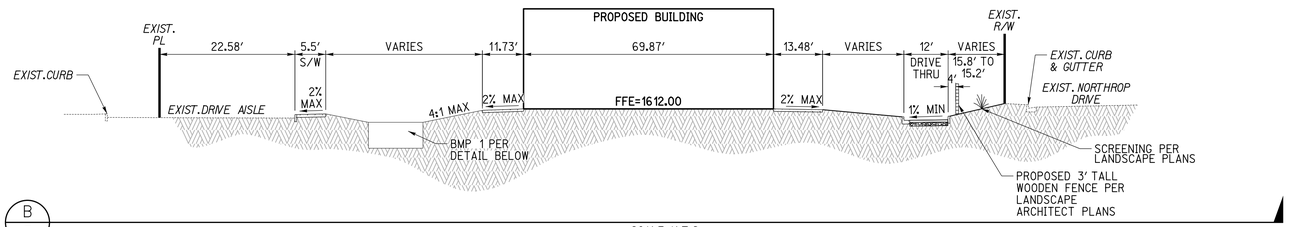


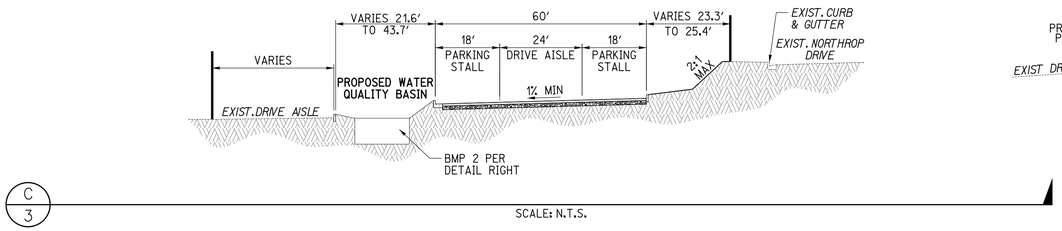
A/3

SCALE: N.T.S.



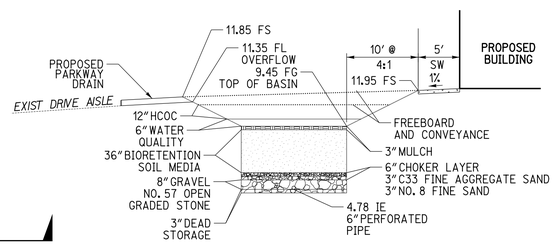
B/3

SCALE: N.T.S.

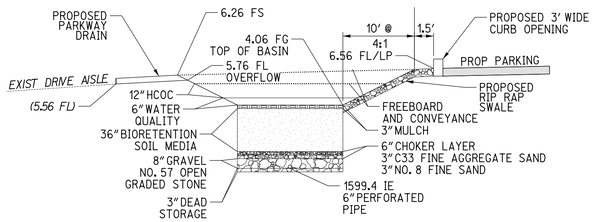


C/3

SCALE: N.T.S.



BMP 1 DETAIL



BMP 2 DETAIL

PRELIMINARY GRADING PLAN
PANERA BREAD
MISSION VILLAGE PLAZA

CITY OF RIVERSIDE
IN THE COUNTY OF RIVERSIDE, CALIFORNIA
DATE PREPARED: JUNE 29, 2023
DATE REVISED: NOVEMBER 6, 2023
JANUARY 25, 2024

SHEET 3 OF 4

RICK ENGINEERING COMPANY
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RIVERSIDE, CA 92507
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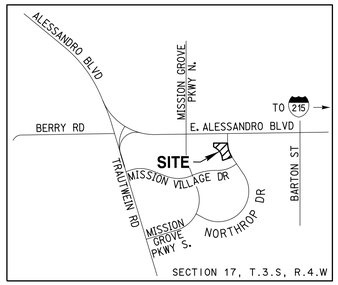
IN THE CITY OF RIVERSIDE, CA

PRELIMINARY COMPOSITE UTILITY PLAN

PANERA BREAD - MISSION VILLAGE PLAZA

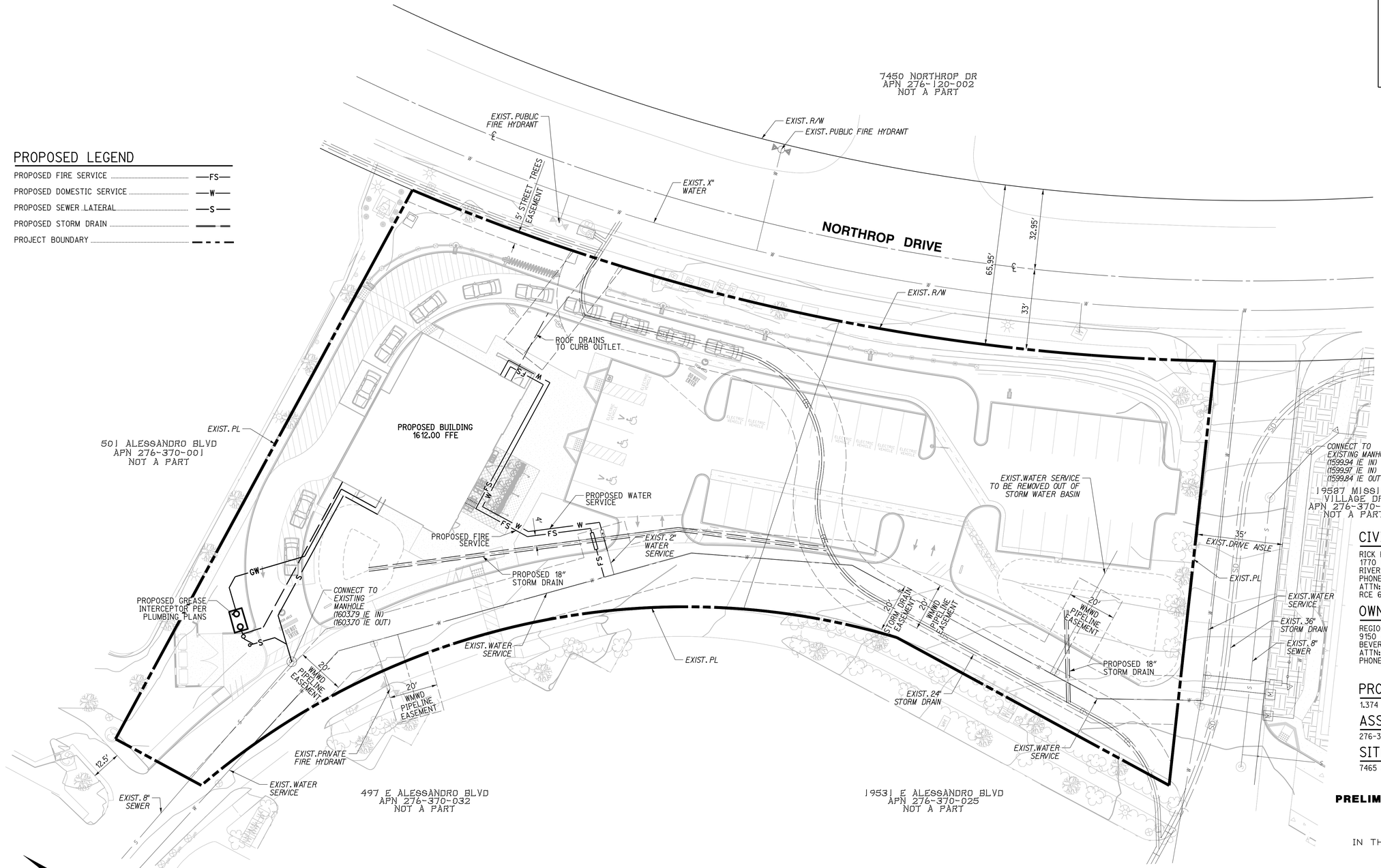


VICINITY MAP

N.T.S.

PROPOSED LEGEND

- PROPOSED FIRE SERVICE ..... —FS—
- PROPOSED DOMESTIC SERVICE ..... —W—
- PROPOSED SEWER LATERAL ..... —S—
- PROPOSED STORM DRAIN .....
- PROJECT BOUNDARY .....



LEGEND

- EXISTING FIRE HYDRANT .....
- EXISTING LIGHT .....
- EXISTING SEWER MANHOLE .....
- EXISTING SIGN .....
- EXISTING WATER METER .....
- EXISTING WALL .....
- EXISTING SHRUBS .....
- EXISTING TREE .....
- PROPOSED CONCRETE .....
- PROPOSED AC PAVEMENT .....
- PROPOSED DECORATIVE PAVERS .....
- PROPOSED STRIPING .....
- PROPOSED RIBBON GUTTER .....
- PROPOSED CURB .....
- PROPOSED PATH OF TRAVEL .....
- PROJECT BOUNDARY .....

CIVIL ENGINEER

RICK ENGINEERING COMPANY
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
PHONE: (951) 782-0707
ATTN: KRISTIN WERKSMAN,
RCE 69317

ARCHITECT

CIVIL & ENVIRONMENTAL CONSULTANTS, INC
3000 LITTLE HILLS EXPRESSWAY, SUITE 102
ST CHARLES, MO 63301
PHONE: (314) 656-4566

OWNER/DEVELOPER

REGIONAL PROPERTIES, INC.
9150 WILSHIRE BLVD, SUITE 210
BEVERLY HILLS, CA 90212
ATTN: MICHELLE RUBIN
PHONE: (310) 553-7846

PROJECT ACREAGE

1.374 AC - 59,851 SF

ASSESSOR'S PARCEL NUMBER

276-370-014 & 276-370-013

SITE ADDRESS

7465 & 7515 NORTHROP DRIVE, RIVERSIDE CA, 92506

PRELIMINARY COMPOSITE UTILITY PLAN
PANERA BREAD
MISSION VILLAGE PLAZA

CITY OF RIVERSIDE
IN THE COUNTY OF RIVERSIDE, CALIFORNIA

DATE PREPARED: JUNE 29, 2023

DATE REVISED: NOVEMBER 6, 2023
JANUARY 25, 2024

SHEET 4 OF 4

RICK ENGINEERING COMPANY Riverside
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707
(FAX)951.782.0723
rickengineering.com
San Diego • Orange • San Luis Obispo • Bakersfield • Sacramento • Phoenix • Tucson

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PLOT DATE: 25-JAN-2024 JN 19550C