GOVERNMENTAL AGENCIES

BUILDING DEPARTMENT

AGENCY: CITY OF LEE'S SUMMIT DEVELOPMENT SERVICES DEPARTMENT
ADDRESS: 220 SE GREEN, LEE'S SUMMIT, MO 64063
CONTACT: JOE FROGGE
PHONE #: 816.969.1200
EMAIL: DEVTECH@CITYOFLS.NET.

FIRE MARSHALL

AGENCY: CITY OF LEE'S SUMMIT FIRE DEPARTMENT
ADDRESS: 207 SE DOUGLAS, LEE'S SUMMIT, MO 64063
CONTACT: CHIEF JIM EDEN
PHONE #: 816.969.1300
EMAIL: JIM.EDEN@CITYOFLS.NET

BUILDING DATA

BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE W/ CITY OF LEE'S SUMMIT AMENDMENTS
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE
FUEL GAS CODE:	2018 INTERNATIONAL FUEL GAS CODE
ELECTRIC CODE:	2017 NATIONAL ELECTRICAL CODE
ACCESSIBILITY CODE:	2009 ICC/ ANSI A117.1
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
FIRE CODE:	2018 INTERNATIONAL FIRE CODE

EXIST. BUILDING OCCUPANCY	A2 (NO CHANGES)
EXIST. BLDG. CONSTRUCTION TYPE	VB (SPRINKLERED, NO CHANGES)
EXIST. BUILDING AREA:	4,161 GSF (NO CHANGES)
EXISTING BLDG OCCUPANCY LOAD:	135 OCCUPANTS (CHANGES)

OCCUPANT LOAD CALCULATION:

	NEW
DINING AREA:	1,539 SF / 15 SF/PERSON = 103
ORDER AREA:	113 SF / 5 SF/PERSON = 23
KITCHEN / DT / SERVING / MULTI-PURPOSE	1,936 SF / 200 SF/PERSON = 10
BUSINESS AREA (OFFICE)	69 SF / 150 SF/PERSON = 1
NEW TOTAL OCCUPANCY LOAD	**137 OCCUPANTS**

1

PROPOSED NEW F2F CANOPY AREA:	1,464 SF
PROPOSED NEW OMD CANOPY AREA:	1,890 SF

SCOPE OF WORK

THESE DOCUMENTS REPRESENT AN ADDITION OF A NEW DUAL LANE OUTSIDE MEAL DELIVERY CANOPY ADDITION & DUAL LANE FACE TO FACE CANOPY AND PLAY AREA CONVERSION TO DINING.

1

ITEMS OF IMPORTANCE

1. REFER TO CIVIL PLANS FOR EXTENT OF SITE WORK.
2. EXISTING SITE ITEMS TO REMAIN UNLESS NOTED OTHERWISE.
3. F2F & OMD CANOPIES BY LANE
4. NO CHANGES TO BUILDING FOOTPRINT & OCCUPANCY TYPE.
5. EXISTING CANOPY AT DRIVE THRU SIDE TO BE REMOVED.

PROJECT GENERAL NOTES

1. ELECTRICAL WORK WILL BE PERFORMED UNDER THIS CONTRACT. ALL TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES, STANDARDS INCLUDING ADA, OTHER HANDICAP ACCESSIBILITY CODES AND INSURANCE RATING BOARDS. NO WORK SHALL COMMENCE UNTIL ALL JURISDICTIONAL PERMITS AND APPROVALS ARE OBTAINED.
3. GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S VENDORS REGARDING SCHEDULING AND SEQUENCING OF THE WORK.
4. THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIALS AND WORKMANSHIP THROUGHOUT AND SHALL CONFORM TO THE APPROPRIATE NATIONAL TRADE PUBLICATION.
5. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FULLY EXAMINE THE SITE SPACE PRIOR TO THE START OF CONSTRUCTION. THE G.C. SHALL VERIFY ALL DIMENSIONS, (VERTICAL, HORIZONTAL AND OTHERWISE), AS WELL AS TO VERIFY THE CONDITIONS AND NATURE OF THE PROPOSED CONSTRUCTION, MATERIALS, AVAILABLE UTILITIES AND STRUCTURAL ELEMENTS. THE G.C. SHALL NOTIFY THE OWNER'S REPRESENTATIVE (OWNER'S REP), IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS.
6. IT SHALL BE THE JOINT RESPONSIBILITY OF THE G.C. AND ALL SUBCONTRACTORS AND SUPPLIERS OF MATERIALS TO SECURE ALL NECESSARY ADAPTATIONS AS MAY BE REQUIRED FOR THEIR RESPECTIVE WORK, PRIOR TO ORDERING, FABRICATION OR INSTALLATION OF ANY MATERIALS, EQUIPMENT OR COMPONENTS WHICH ARE TO BE INTEGRATED INTO THE WORK. NO CLAIMS FOR ADDITIONAL COMPENSATION SHALL BE MADE OR SHALL BE VALID UNLESS WRITTEN NOTIFICATION IS RECEIVED BY THE OWNER'S REP AND THE ADDITIONAL COMPENSATION IS APPROVED IN ADVANCE OF PROCEEDING WITH THE WORK.
7. REFERENCE ALL DRAWINGS FOR A COMPLETE DESCRIPTION OF THE WORK.
8. COMMENCEMENT OF WORK IN ANY AREA BY THE CONTRACTOR SHALL BE CONSTRUED THAT THE CONTRACTOR HAS CHECKED THE EXISTING CONDITIONS AND FOUND THEM TO BE SATISFACTORY TO ACCEPT THIS PORTION OF THE WORK.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN IN THE DRAWINGS OR NOT & TO PROTECT THEM FROM DAMAGE DURING THE WORK. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE PERFORMANCE OF THE WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE JOB IS IN PROGRESS & UNTIL JOB IS COMPLETED.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS & SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF ALL WORK.
12. RESTAURANT REFUSE/DUMPSTER SHALL NOT BE USED FOR CONSTRUCTION DEBRIS.
13. CAP AND SEAL OFF ANY PLUMBING/ELECTRICAL PENETRATIONS AS NECESSARY. DO NOT ABANDON ANY UTILITIES OR MATERIALS WITHIN THE SPACE - REMOVE BACK TO THE SOURCE.
14. COVER RETURN AIR DUCTS AS NECESSARY BEFORE AND DURING CONSTRUCTION.

Chick-fil-A

5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349-2998
PHONE: (404) 765-8000
FAX: (404) 684-8550

S08N-104-R

CUSTOM PROJECT SOLUTIONS

DUAL LANE OUTSIDE MEAL DELIVERY CANOPY & DUAL LANE FACE TO FACE CANOPY ADDITION.

PLAY AREA CONVERSION TO DINING

1

SUMMIT FAIR FSR #02859

690 NW BLUE PARKWAY,
LEE'S SUMMIT, MO 64086
AUGUST 2023

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	ISSUE DESCRIPTION	CHANGE DESCRIPTION	AFFECTED SHEETS
1	02/19/24	PLAY AREA REMOVAL	-	G-000, ASP-1.1, D-201, D-221, A-005, A-201, A-211, A-221, A-601, A-620, M-1.1, M-2.1, E-2.1, F-201, F-211, F-701
2	03/11/24	COORDINATION REVISIONS	-	F-201
3	04/03/24	DESIGN COMMENTS	-	A-221, A-601
4	04/17/24	RFI #5	-	G-000, FP-1.1
5	07/15/24	COORDINATION REVISIONS	ADDED OFFSET FOOTING DETAILS	G-000, OMD-4 - OMD-10

ARCHITECT:
INTERPLAN LLC.,
220 E CENTRAL PKWY, SUITE 4000
ALTAMONTE SPRINGS, FL 32701
AOR: LAUREL MARTIN, R.A., NCARB
CONTACT: JESSICA CHERKASSKY
PHONE (407) 645-5008
FAX (407) 629-9124
EMAIL: JCHERKASSKY@INTERPLANLLC.COM

ELECTRICAL ENGINEER:
INTERPLAN LLC
220 E CENTRAL PKWY,
SUITE 4000
ALTAMONTE SPRINGS,
FL 32701
PHONE: (407) 645-5008
ENGINEER OF RECORD:
STACY HENSON
CONTACT: MARYANA IBRAHIM

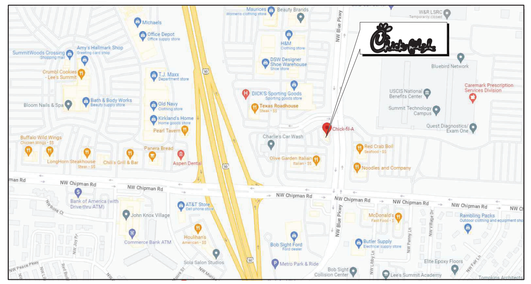
PLUMBING ENGINEER:
INTERPLAN LLC
220 E CENTRAL PKWY,
SUITE 4000
ALTAMONTE SPRINGS,
FL 32701
PHONE: (407) 645-5008
ENGINEER OF RECORD:
STACY HENSON
CONTACT: MARYANA IBRAHIM

MECHANICAL ENGINEER:
INTERPLAN LLC
220 E CENTRAL PKWY,
SUITE 4000
ALTAMONTE SPRINGS,
FL 32701
PHONE: (407) 645-5008
ENGINEER OF RECORD:
STACY HENSON
CONTACT: MARYANA IBRAHIM

CIVIL ENGINEER:
GBC DESIGN, INC
565 WHITE POND DRIVE
AKRON, OH 44320
CONTACT: JACK MEANEY, P.E.
PHONE: (330) 836-0228

CANOPY SUPPLIER
LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX 76010
CONTACT: LARRY TOLBERT
PHONE: (817) 261-9116

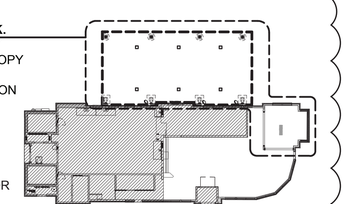
DRAWING INDEX



1 **VICINITY MAP**
NOT TO SCALE

N

SCOPE OF WORK.
DL-OMD CANOPY AND DL-F2F CANOPY ADDITION. PLAY AREA CONVERSION TO DINING



REFER TO SITE PLAN FOR EXACT F2F CANOPY LOCATION

1

KEY PLAN
NORTH

Chick-fil-A
Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

Digitally signed by Laurel R Martin
Date: 2024.07.18 16:58:58-04'00'

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
PRINTED FOR **PERMIT**

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL
4	04/17/24	RFI#5
5	07/15/24	COORDINATION REVS.

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY SN
CHECKED BY JC

SHEET
COVER SHEET

SHEET NUMBER
G-000

JESCHE - 07/17/2024 2:15:11 PM

EQUIPMENT SCHEDULE	
XO.3	BOLLARD SLEEVE SUPPLIER: G.C. MODEL NUMBER: 1736YRS - EAGLE 6" 6-7/8" ID, 7-3/8 OD, 56"H, COLOR: SAFETY YELLOW W/ REFLECTIVE RED STRIPE. HIGH-DENSITY POLYETHYLENE (HDPE) CONSTRUCTION WITH UV INHIBITORS, SLIDE-ON & TRIM PER MANUFACTURERE'S INSTALLATION INSTRUCTIONS.
XO.9	LED DECK LIGHT SUPPLIER: CANOPY MANUFACTURER. LEGACY LED CANOPY LIGHT, CRUS SC LED LW 30 UE WHT. OVERHEAD LED LIGHT PREMOUNTED TO CANOPY PER MANUFACTURERES GUIDELINES. 15-15/16" L X 15-15/16"D X 7-1/8" H, STANDARD SYMMETRIC LIGHT DISTRIBUTION, 300K LIGHT TEMPERATURE, G.C. RESPONSIBLE FOR ELECTRICAL CONNECTIONS.
XO.12	OVERHEAD GAS HEATER SUPPLIER: TOM BARROW COMPANY (CONTACT SCOTT GEORGE PH#:404-351-1010 SGEORGE@TOMBARROW.COM) SCI-MARK 2352 N/L OUTDOOR FOR TIER 3 48"L X 13"D X 10"H, BLACK FINISH, STAINLESS STEEL ENCLOSURE, CEILING OR COLUMN MOUNTED, HORIZONTALLY FACING 90° TO GROUND, SEE CANOPY MANUFACTURER'S SHOP DRAWINGS TOP OF HEATER TO BE MIN 8" TO BOTTOM OF DECK. MUST BE MORE THAN 8' ABOVE GROUND, MUST BE MIN 4' BETWEEN CENTER OF HEATER TO CENTER OF FAN.
XO.13	OVERHEAD HEATER MOUNTING INFO BY CANOPY MANUFACTURER STEEL TUBE AND PLATE FOR MOUNTING HEATER TO TIER 3 CANOPY. BRACKET SIZE / EXTENSION LENGTH DEPENDENT ON POSITIONING HEATER ABOVE TM WALKWAY, FINISH TO MATCH CANOPY, INSTALL PER MANUFACTURER'S DRAWINGS.
XO.14	HEAT SHIELD SUPPLIER: TOM BARROW COMPANY ATLANTA CUSTOM FABRICATORS HS-5818 (LARGE HEATER). DUAL HEATER HEATSHIELD TO BE MOUNTED DIRECTLY ABOVE AT BOTTOM OF MOUNTING BRACKET. LARGE HEAT SHIELD TO BE INSTALELD ON TIER 3 CANOPIES.
XO.16	MOUNTED FAN SUPPLIER: TOM BARROW COMPANY (CONTACT SCOTT GEORGE PH#:404-351-1010 SGEORGE@TOMBARROW.COM) TPI CORP - UI18TE-HD 22-1/2" DIAMETER, BLACK FINISH, 10' CORD, TOTALLY ENCLOSED, CORROSION AND DENT PROOF HOUSING, 120V, 1 PHASE, 3 SPEED MOTOR, MOUNT TO WALLS, COLUMNS OR CANOPY CEILING PER MANUFACTURER'S INSTRUCTIONS.
XO.19	CLEARANCE TEXT SUPPLIER: CANOPY MANUFACTURER, 9'-0" CLEARANCE TEXT, METALLIC VINYL NUMBERS. TEXT HEIGHTS VARY BY CANOPY - SEE SHOPS FOR COMPONENT AND DIMENSION INFO, CANOPY VENDOR TO INSTALL.
XO.29	OVERHEAD ELECTRIC HEATER SUPPLIER: BROMIC HEATING RE: ELECTRICAL PLANS 56"L X 8.5"D X 3.5"H, BLACK HIGH TEMPERATURE COATING FINISH, CEILING OR WALL MOUNTED, HORIZONTALLY FACING 30° TO GROUND, SEE CANOPY MANUFACTURER'S SHOP DRAWINGS TOP OF HEATER TO BE MIN 12" TO BOTTOM OF DECK. MUST BE MORE THAN 8' ABOVE GROUND, MUST BE MIN 4' BETWEEN CENTER OF HEATER TO CENTER OF FAN.

CANOPY EQUIPMENT SPEC NOTES:
REFER TO CANOPY MANUFACTURER CUTSHEET FOR HEATERS, FANS, CANOPY LIGHTS, PERMANENT BOLLARD & SLEEVE, AND 9'-0" CLEARANCE TEXT SPECIFICATIONS.

NOTE:
1. ALLOW 4'-0" MIN. BETWEEN LIGHTS/FANS AND HEATERS.

2. UTILITIES SHALL BE FED OVERHEAD ON EXISTING BLDGS.

3. INSTALL FLASHING AT ALL WINDOW CONDITIONS, SEE 4ASP1.1

4. ALL FOOTINGS TO BE BELOW GRADE.

5. DO NOT UNDERMINE EXISTING BUILDING FOUNDATION.

6. DRAINAGE TO BE BELOW GRADE WHEN POSSIBLE PER SITE CONDITIONS, TIE INTO EXISTING UTILITIES.

7. G.C. TO VERIFY METHOD OF DRAINAGE ON CANOPY SHOP DRAWINGS.

8. G.C. TO PATCH AND REPAIR WALL AFFECTED BY DEMOLITION. FINISH TO MATCH EXISTING.

9. X/Y DIMENSION SHOWN FOR ILLUSTRATIVE PURPOSES ONLY FROM FACE OF FINISH TO COLUMN CENTERLINE. G.C. TO CONFIRM DIMENSIONS WITH CIVIL PLANS AND FIELD VERIFY EXACT LOCATIONS. G.C. TO NOTIFY CHICK-FIL-A PROJECT TEAM IF CANOPY LOCATION CHANGES AND IMPACTS OTHER CONSTRUCTIONS RELATED CONDITIONS.

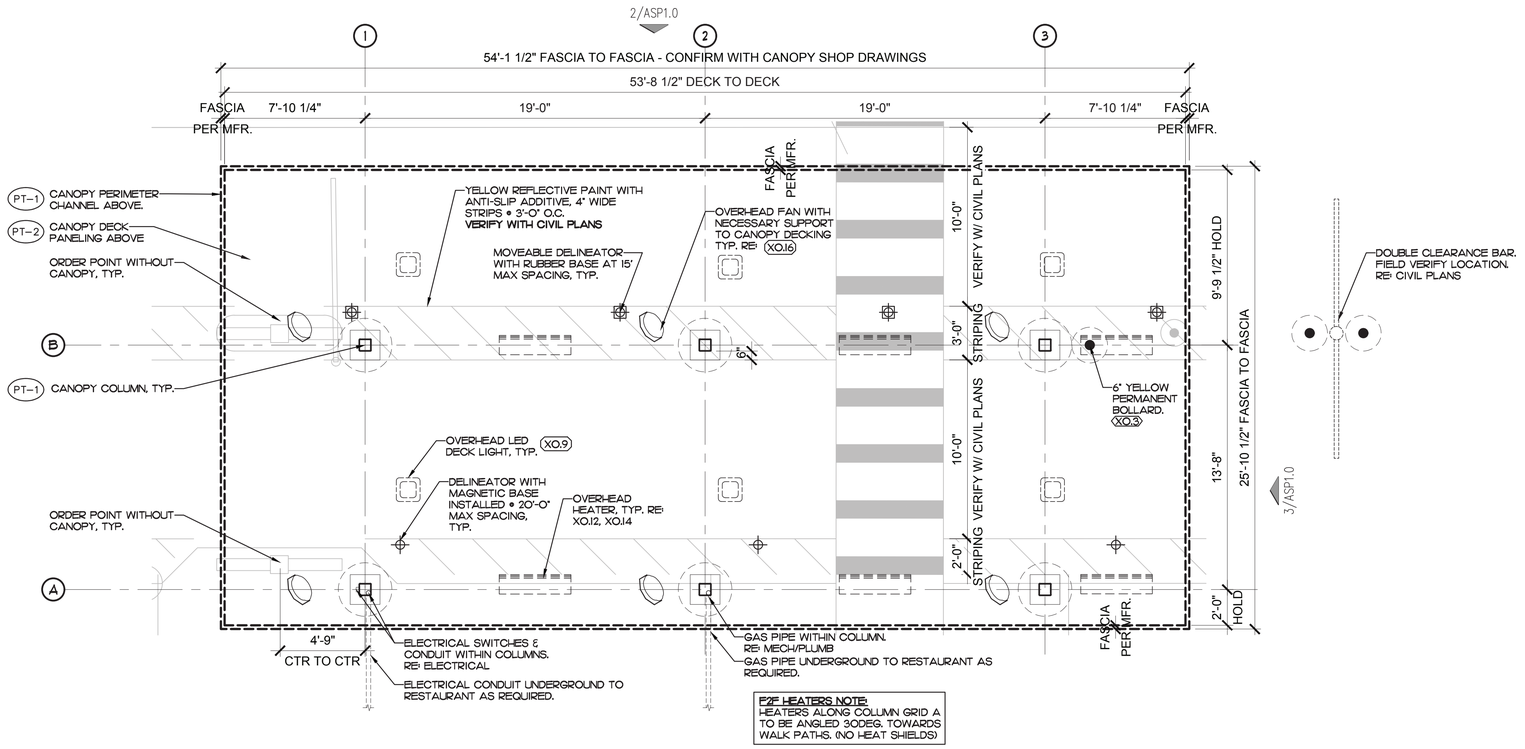
LEGEND
(XXXX) FINISH TAG.
(XXXX) EQUIPMENT TAG.

NOTE:
REFER TO CFA'S OMD SERVICE & SAFETY GUIDELINES AS WELL AS CFA'S OMD G.C. INSTALL GUIDE FOR REFERENCE.

EXPOSED PIPING FINISHES:
ANY EXPOSED GAS OR ELECTRICAL CONDUIT SHALL BE FINISHED. PAINTED BLACK TO MATCH ADJACENT MATERIAL.

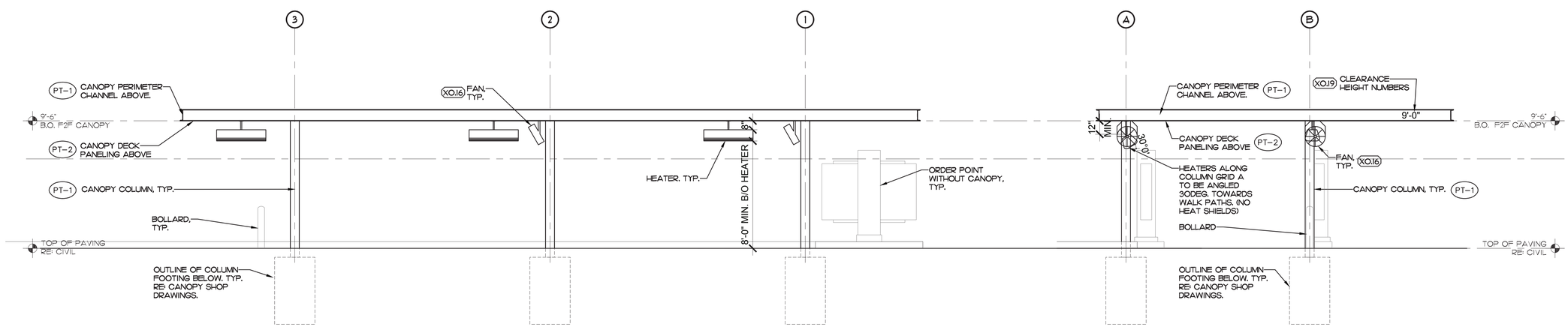
EXTERIOR FINISH SCHEDULE:
PT-1 DURA COAT, DC19ST02703 DARK BRONZE, OIL RUBBED BRONZE METALLIC TEXTURE PVD

PT-2 SMOOTH WHITE, HIGH GLOSS



F2F HEATERS NOTE:
HEATERS ALONG COLUMN GRID A TO BE ANGLED 30DEG. TOWARDS WALK PATHS. (NO HEAT SHIELDS)

1 TIER 3 DOUBLE LANE ORDER CANOPY
1/4"= 1'-0"



2 CANOPY SIDE ELEVATION
1/4"= 1'-0"

3 CANOPY REAR ELEVATION
1/4"= 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904
ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:
STATE OF MISSOURI
LAUREL ROSE MARTIN
NUMBER A-2019008772
ARCHITECT
Digitally signed by Laurel R Martin
Date: 2024.07.18 16:59:00-04'00'

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY RW
CHECKED BY JC

SHEET
ARCHITECTURAL SITE PLAN - F2F CANOPY

SHEET NUMBER
ASP-1.0

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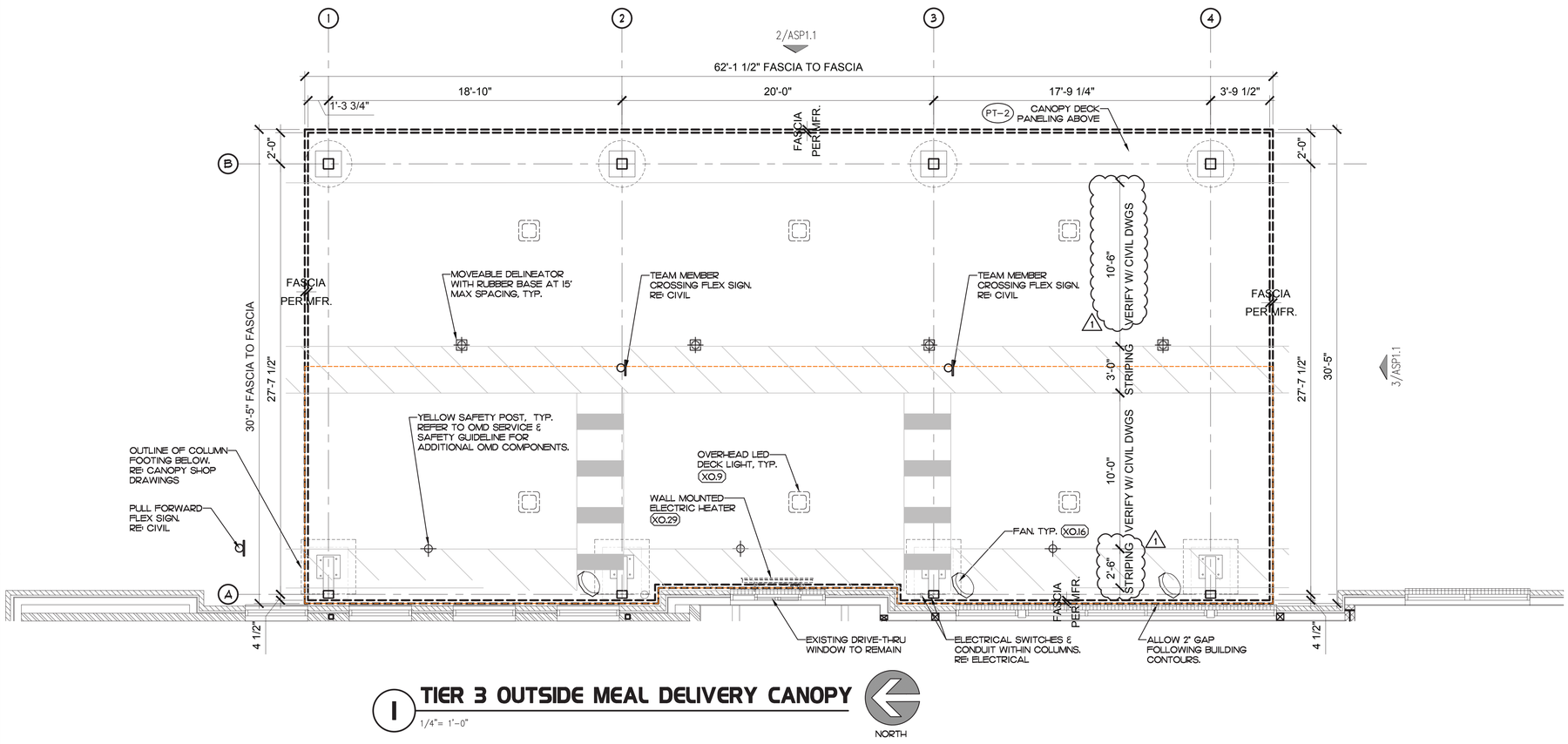
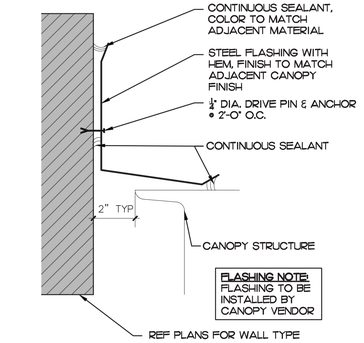


1 TIER 3 OUTSIDE MEAL DELIVERY CANOPY

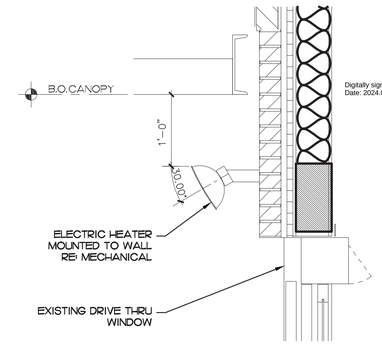
1/4"= 1'-0"

NORTH



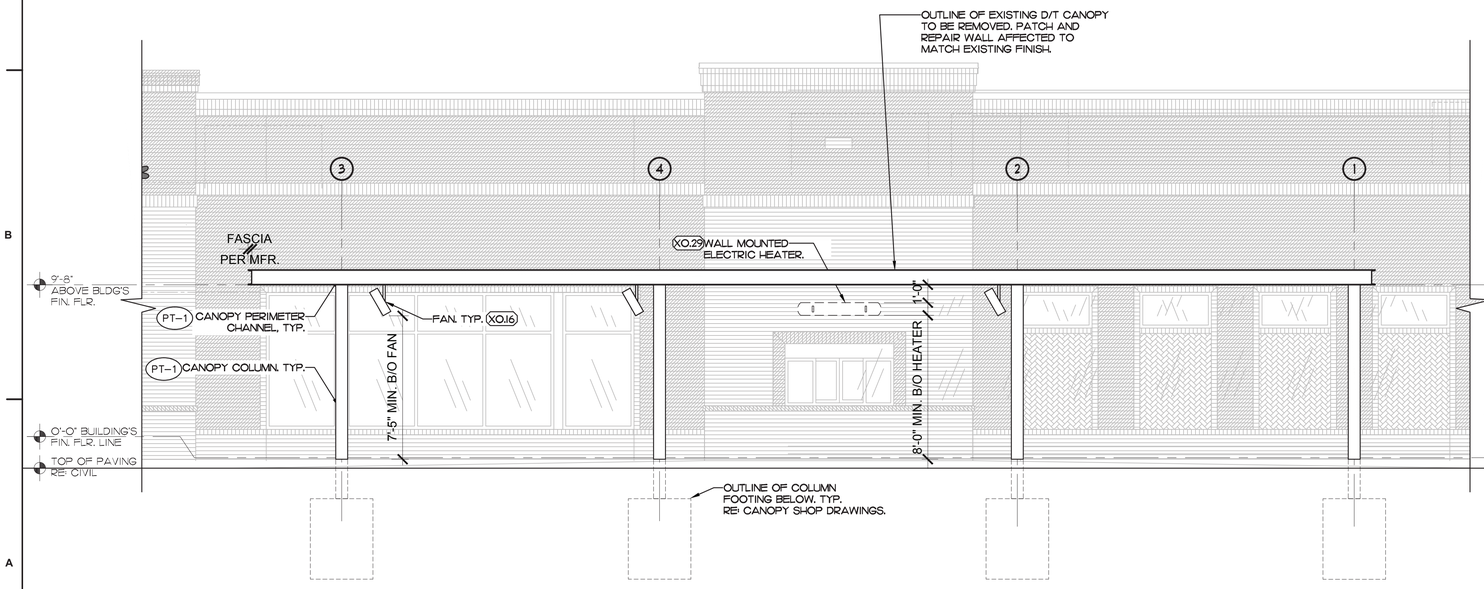
4 FLASHING DETAIL

NTS



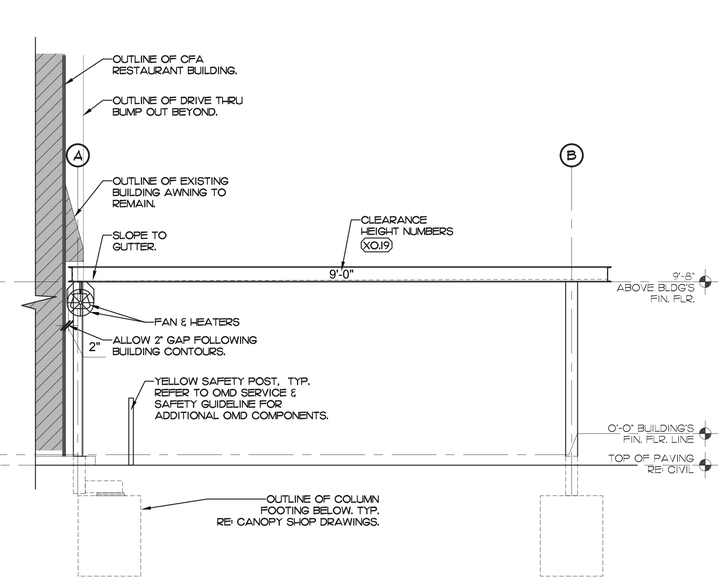
5 HEATER DETAIL

NTS



2 OMD CANOPY SIDE ELEVATION

1/4"= 1'-0"



3 OMD CANOPY SIDE ELEVATION

1/4"= 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
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220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STATE OF MISSOURI
LAUREL R MARTIN
NUMBER A-2019008772
ARCHITECT

Digitally signed by Laurel R Martin
Date: 2024.07.18 16:59:03-04'00'

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
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REVISION SCHEDULE

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1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY RW
CHECKED BY JC

SHEET
ARCHITECTURAL SITE PLAN - OMD CANOPY

SHEET NUMBER
ASP-1.1

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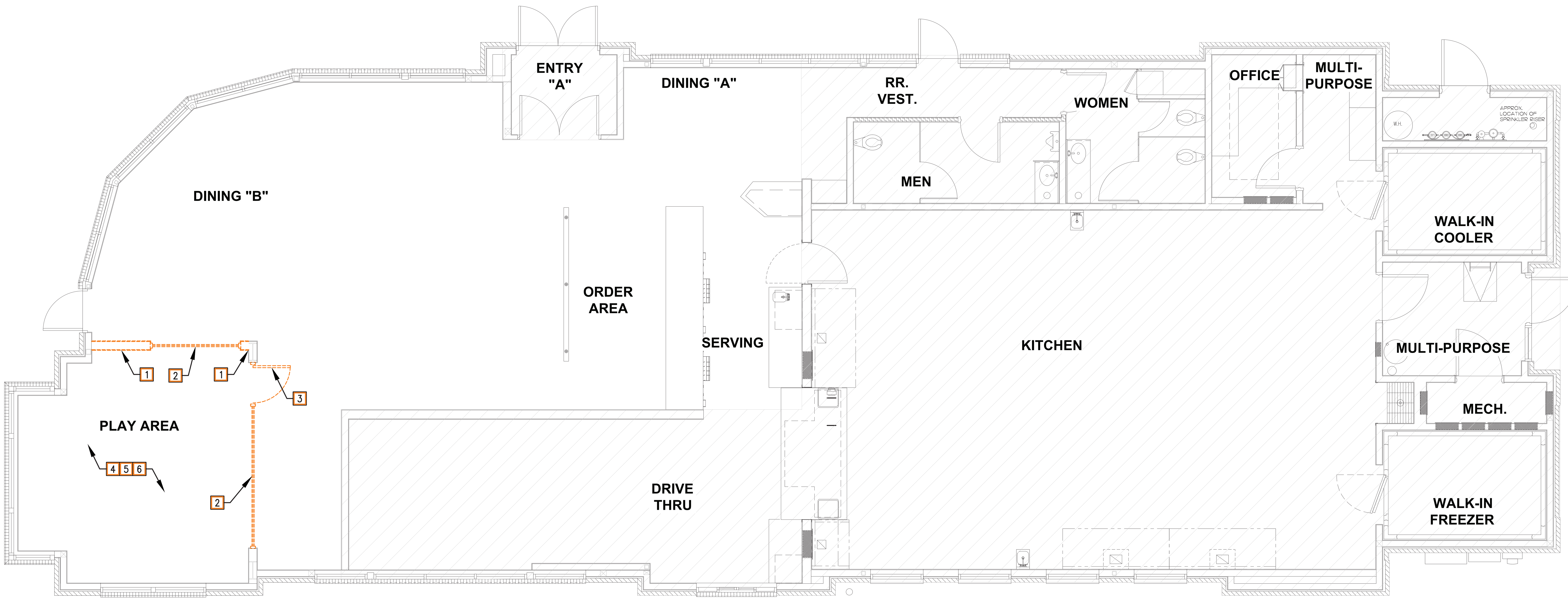
	HATCHED AREAS DENOTE AREAS NOT IN SCOPE OF WORK UNLESS NOTED OTHERWISE.
	EXISTING
	RELOCATED
	DEMO
	NEW

MOLD AND MILDEW NOTES

1.	IF CONTRACTOR DISCOVERS MOLD OR MILDEW AT ANY TIME DURING THE WORK, CONTRACTOR IS TO IMMEDIATELY INFORM THE OWNER AND ARCHITECTS IN WRITING.
2.	CONTRACTOR SHALL RETAIN A CERTIFIED MOLD AND MILDEW TESTING AGENCY TO PERFORM INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF TESTS CONFIRM HAZARDOUS CONDITIONS, THE CONTRACTOR SHALL OBTAIN A MINIMUM OF 2 BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM REMEDIATION WORK. REIMBURSEMENT OF REMEDIATION WORK TO BE DETERMINED BY THE OWNER AND ARCHITECT BEFORE CONTRACTOR BEGINS REMEDIATION WORK.
3.	CONTRACTOR TO PROVIDE A MOISTURE PROTECTION PLAN TO AVOID TRAPPING WATER IN FINISHED WORK. CONTRACTOR TO DOCUMENT VISIBLE SIGNS OF MOLD THAT MAY APPEAR DURING WORK.

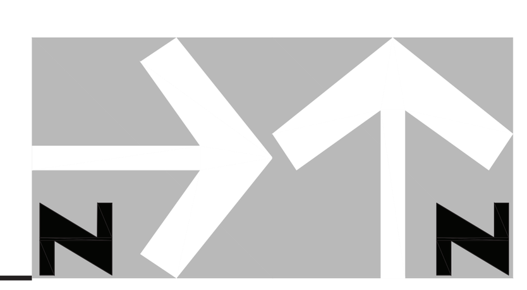
DEMOLITION KEY NOTES

1	EXISTING WALL TO BE REMOVED.
2	EXISTING PLAY AREA STOREFRONT TO BE REMOVED.
3	EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED.
4	REFER TO FURNITURE PLANS FOR EXISTING QUEUE LINE AND FURNITURE SCOPE.
5	EXISTING PLAY AREA FLOORING TO BE REMOVED. PREPARE SLAB TO RECEIVE NEW FLOORING FINISH. REFER TO A-201 FOR SLAB INFILL INFORMATION.
6	EXISTING PLAY AREA WALL FINISHES TO BE REMOVED. PREPARE WALL TO RECEIVE NEW FINISHES. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.



1 DEMOLITION FLOOR PLAN

1/4"=1'-0"



Chick-fil-A
5200 Buffington Road
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30349-2998

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ARCH COA #2015008774
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ARCHITECTURE
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220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

Digitally signed by Laurel R Martin
Date: 2024.07.18 16:59:04-04'00'

STATE OF MISSOURI
LAUREL ROSE MARTIN
NUMBER A-2019008772
ARCHITECT

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR

690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT #	2023.0467
DATE	AUGUST 2023
DRAWN BY	SN
CHECKED BY	JC

SHEET
DEMOLITION FLOOR PLAN

SHEET NUMBER
D-201

1

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RCP GENERAL DEMO NOTES

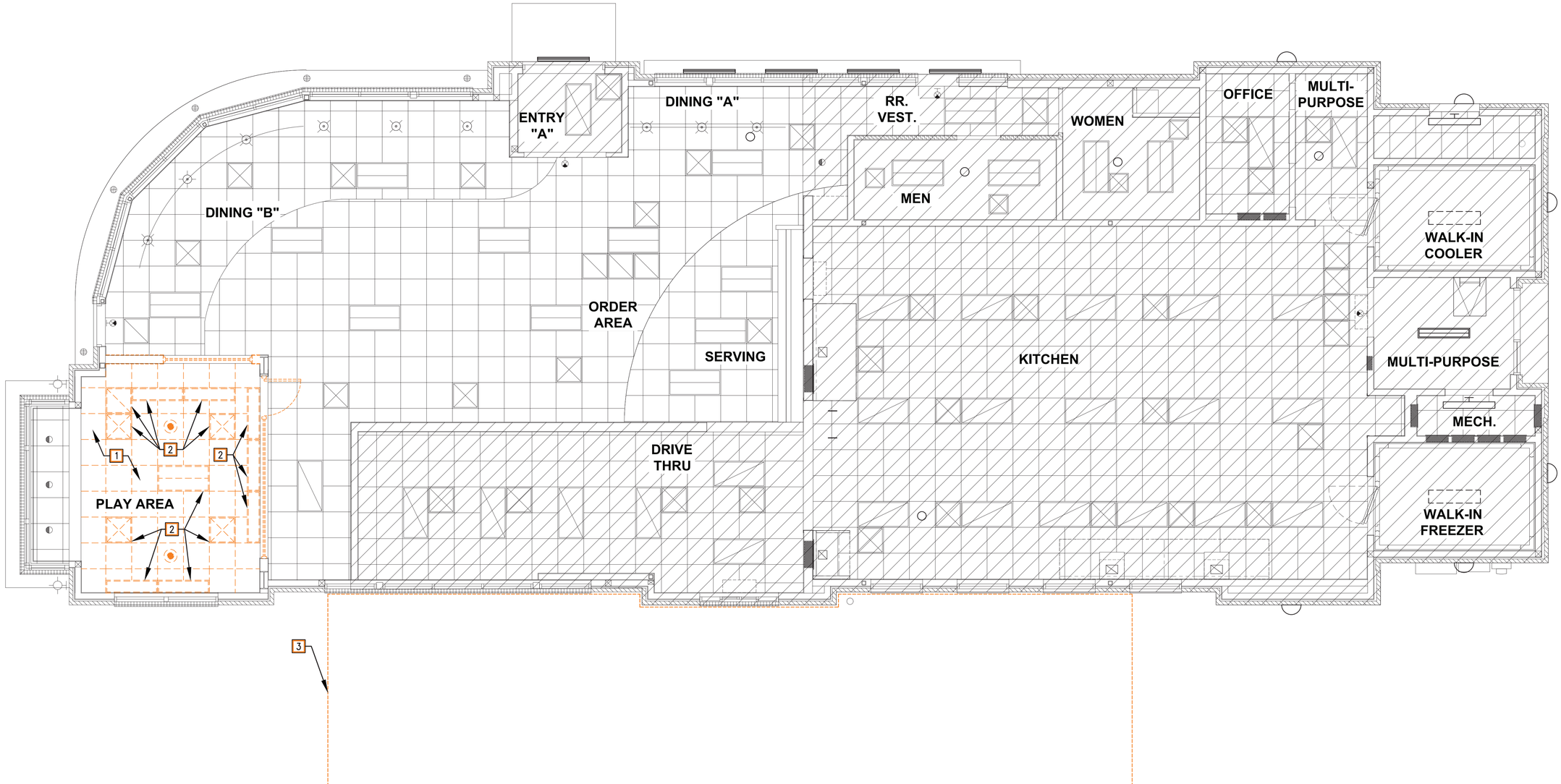
1.	REFER TO ELECTRICAL SHEETS FOR MORE INFORMATION ON LIGHT SPECS.
2.	ALL EMERGENCY LIGHTING IS EXISTING TO REMAIN U.N.O.
3.	CEILINGS ARE EXISTING TO REMAIN U.N.O.
4.	REFER TO MECHANICAL SHEETS FOR CLARIFICATION ON NEW AND EXISTING SUPPLY AND RETURN DIFFUSERS.
5.	REFER TO MANUFACTURER SPEC SHEETS FOR INSTALLATION OF CEILING MOUNTED AIR CURTAIN.
6.	ALL EXTERIOR LIGHTING TO REMAIN U.N.O.
7.	EXISTING AWNINGS AND ENTRY CANOPY TO REMAIN U.NO.
8.	EXISTING HEADERS TO REMAIN.
9.	

DEMOLITION RCP KEY NOTES

1	REMOVE AND DISCARD EXISTING ACT AND GRID SHOWN DASHED.
2	REMOVE AND DISCARD EXISTING LIGHT FIXTURE, DIFFUSERS AND RETURNS SHOWN DASHED.
3	OUTLINE OF EXISTING OMD CANOPY TO BE REMOVED.

HATCHED AREAS DENOTES AREAS NOT IN SCOPE OF WORK UNLESS NOTED OTHERWISE.

EXISTING
RELOCATED
DEMO
NEW



1 DEMOLITION REFLECTED CEILING PLAN

1/4"=1'-0"

TRUE NORTH PROJECT NORTH

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STATE OF MISSOURI
LAUREL MARTIN
NUMBER A-2019008772
ARCHITECT

Digitally signed by Laurel R Martin
Date: 2024.07.18 16:59:07-04'00'

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY SN
CHECKED BY JC

SHEET
DEMOLITION REFLECTED CEILING PLAN
SHEET NUMBER
D-221

1

JESCHE - 07/17/2024 3:52:50 PM

I INTERIOR FINISH SCHEDULE

CEILING FINISHES

ACT-2	ACOUSTICAL CEILING TILE CERTAINTEED CEILINGS, PERFORMA SYMPHONY M, #1222BF-IOF-1, 24" X 24" X 3/4" WHITE GRID: ELITE NARROW REVEAL (CORNER BEVEL) 9/16" GRID, WHITE **[VERIFY EXISTING ACT SPECIFICATION, SEE NOTE BELOW]**
PT-1A	PRIMARY INTERIOR CEILING PAINT SHERWIN WILLIAMS, PRO MAR 200 ZERO VOC PAINT SW-7011 / NATURAL CHOICE, FINISH: FLAT (SEMI-GLOSS ON HARDIE PANEL)
PT-3A	PRIMARY INTERIOR CEILING PAINT SHERWIN WILLIAMS, PRO MAR 200 ZERO VOC PAINT SW7600/ BOLERO, FINISH: FLAT

WALL FINISHES

PT-1B	PRIMARY INTERIOR WALL PAINT SHERWIN WILLIAMS, PRO MAR 200 ZERO VOC PAINT SW-7011 / NATURAL CHOICE, FINISH: EGGSHELL
WD-3	WAINSCOTING PER NATIONAL ACCOUNT 1/4" PLYWOOD (RED OAK, PLAIN CUT LAUAN CORE WITH METAL TRIM) CUSTOM, FINISH: RED OAK STAINED MINWAX DRIFTWOOD. RE: DETAILS AND SHOP DRAWINGS FROM MANUFACTURER.

WALL BASES

T-4	PORCELAIN TILE COVE BASE CREATIVE MATERIALS CORPORATION LAVA LIGHT GRAY, 6"X12" COVE BASE GROUT: G1, JOINT WIDTH: 3/16"

FLOOR FINISHES

G-1	FLOOR TILE GROUT (T-3 AND T-4, USE WITH PORCELAIN TILE) MAPEI, ULTRA COLOR GROUT 47 / CHARCOAL
T-3	PORCELAIN TILE CREATIVE MATERIALS CORPORATION LAVA LIGHT GRAY, 12"X12" GROUT: G1, JOINT WIDTH: 3/16"

MISCELLANEOUS FINISHES

RS-1	ROLLER SHADE PHIFER SHEERWEAVE 4000 U61 ECO/GREYSTONE, 5% OPENNESS - NOTCHLESS 4" FASCIA, DARK BRONZE TO MATCH STOREFRONT COLOR, ROLLEASE SKYLINE CLUTCH, (HEAT SEALED INTERNAL POCK HEM BAR), 110LB STAINSTEEL ROLLEASE CHAIN, CHAIN LOCATED AT JAMB ONLY, NOT IN CENTER WINDOW RE: INTERIOR ELEVATIONS

INTERIOR FINISH NOTES

1. PROVIDE 5" HIGH BAND OF 1/2" CEMENTITIOUS BOARD AT BASE OF ALL WALLS IN DINING ROOMS AND VESTIBULES, 12" HIGH AT BASE OF KITCHEN WALLS. FOR ALL WALLS WITH TILE - PROVIDE FULL COVERAGE OF CEMENT BOARD SUBSTRATE FROM FLOOR TO THE HEIGHT OF WALL TILE. CEMENTITIOUS BOARD SHALL BE "DUROCK" BY U.S. GYPSUM. RE: INTERIOR ELEVATIONS.
2. ROLLER SHADE WIDTH DIMENSIONS TO BE 2" LESS THAN THE FINISHED DIMENSION OF EACH WINDOW TO ACCOUNT FOR WAINSCOT TOP CAP RETURNING TO STOREFRONT - VALENCE WILL MAINTAIN FULL LENGTH & ROLLER SHADE WILL BE 2" LESS THAN TOTAL MEASUREMENT.
3. AT T-2/CT-45 OUTSIDE CORNERS IN PUBLIC AREAS. USE BLANKE (RE: TR-1) TRIM STRIP. SEE NATIONAL ACCOUNTS FOR ORDERING INFORMATION.
4. FOR WAINSCOTING WHERE GRAPHIC MESSAGE EXTENDS ABOVE TOP HORIZONTAL TRIM CAP, INSTALLER TO FIELD CUT VERTICAL BATTENS AND TOP CAP AT GRAPHICS AS REQUIRED. COORDINATE WITH CHARTER HOUSE.
5. FOR CEILING FINISHES, IF PATCHING AND REPAIRING ACT, VERIFY EXISTING SPECIFICATION PRIOR TO ORDERING.
6. FOR EXISTING RESTAURANTS THAT NEED 6 INCH TILE FOR REPAIR, THE INSTALLER SHOULD SPECIFY NEEDING A COVE BASE (DAL TILE LAVA LIGHT GREY SPEC) WITH A 6 INCH HEIGHT AND ORDER DIRECTLY FROM DALTILE (CHICK-FIL-A@DALTILE.COM).

EXTERIOR FINISH NOTES

1. FINISHES LISTED IN THIS SCHEDULE DO NOT REPRESENT ORIGINAL PROTOTYPE FINISHES. CONFIRM ACTUAL FINISHES TO MATCH ON SITE.

2. REFER TO EXTERIOR ELEVATIONS FOR AWNING TYPES AND CORRESPONDING FINISH.

3. G.C. TO OBTAIN PAINT, COLOR, BRICK, MATERIAL SAMPLES AND TAKE PHOTOS OF SAMPLES NEXT TO EXISTING BUILDING IN FIELD. SEND PICTURES OF SAMPLES TO ARCHITECT, CFA CONSTRUCTION MANAGER, AND CHICK-FIL-A DESIGN TEAM FOR APPROVAL BEFORE START OF CONSTRUCTION AS TO NOT DELAY THE PROJECT.

PAINT NOTES:
VERIFY MANUFACTURER, COLOR, AND MODEL NUMBERS WITH EXTERIOR FINISH SCHEDULE

1. BLACK
   - 1.1. SITE SIGNAGE (MAIN ID, SECONDARY ID, DIRECTIONAL, VERIFY OTHER POSSIBLE SIGNAGE)
   - 1.2. NEW CANOPIES AT MAIN ENTRANCE AND DRIVE-THRU
   - 1.3. AWNING FRAMES (VERIFY FABRIC WITH EXTERIOR FINISH SCHEDULE)\
   - 1.4. DRIVE-THRU ORDER POINTS/MENU BOARDS
   - 1.5. DRIVE-THRU CLEARANCE BARS
2. DARK BRONZE
   - 2.1. SITE METALS, NOT MENTIONED ABOVE, INCLUDING BUT NOT LIMITED TO: BOLLARDS, DUMPSTER GATE POSTS, LIGHT POLES, HANDRAILS
   - 2.2. BUILDING METALS, NOT MENTIONED ABOVE, INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURES, DOWNSPOUTS, SCUPPERS
   - 2.3. NEW BUILDING PARAPET COPINGS (IF APPLICABLE)
   - 2.4. EXISTING BUILDING PARAPET COPINGS (REPAINT TO MATCH NEW) - IF APPLICABLE

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220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:
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LAUREL ROSE MARTIN
NUMBER A-2019008772
ARCHITECT

Digitally signed by Laurel R Martin
Date: 2024.07.18 16:59:09-04'00'

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT #	2023.0467
DATE	AUGUST 2023
DRAWN BY	SN
CHECKED BY	JC

SHEET
FINISH SCHEDULE
SHEET NUMBER
A-005

JESCHE - 07/17/2024 3:52:11 PM

LEGEND

DOOR TAG.
RE: DOOR SCHEDULE

WINDOW TAG.
RE: DOOR SCHEDULE

EXISTING
RELOCATED
DEMO
NEW

HATCHED AREAS DENOTE AREAS NOT IN SCOPE OF WORK UNLESS NOTED OTHERWISE.

WOOD STUD WALL	
W4	2x4 WOOD STUDS
W6	2x6 WOOD STUDS
W8	2x8 WOOD STUDS
WX	2x INFILL WOOD STUDS
METAL STUD WALL	
M4	3 5/8" METAL STUDS
M6	6" METAL STUDS
M8	8" METAL STUDS
NW - NEW WALL TO MATCH EXISTING	
BATT INSULATION	
NEW EXTERIOR FINISH. RE: EXTERIOR ELEVATIONS	

NOTE 1: WALL BLOCKING SHALL BE THE GENERAL CONTRACTOR`S RESPONSIBILITY. BLOCKING SHALL INCLUDE, BUT IS NOT LIMITED TO: AREAS INDICATED ON INTERIOR ELEVATIONS FOR GRAB BARS, SHELVING BRACKETS, MONITORS, FIXTURES, ETC, AS WELL AS BLOCKING FOR WINDOWS, CANOPIES ROOF FRAMING, ROOF TOP UNITS, ETC.

NOTE 2: REFER TO STRUCTURAL DRAWINGS AND WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

NOTE 3: REFER TO FINISH PLAN FOR WALL FINISH INFO AND SPECIFICATIONS FOR WALL SHEATHING INFO

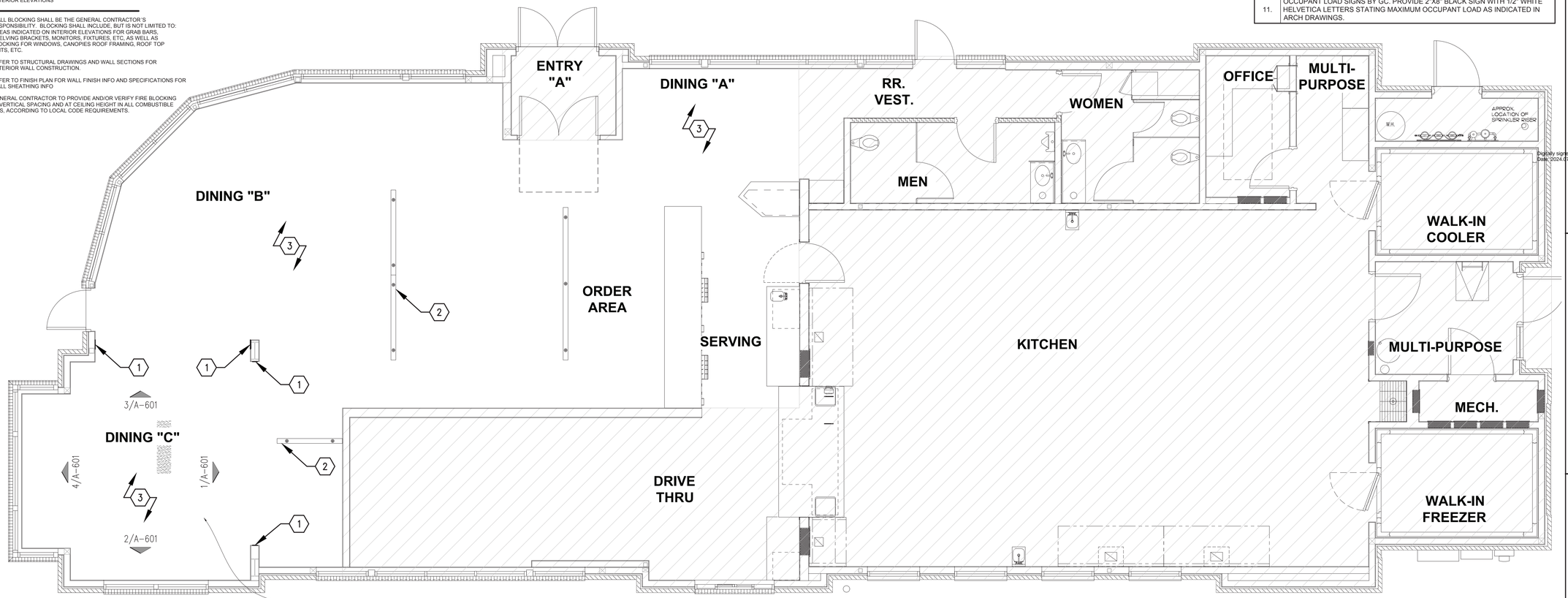
NOTE 4: GENERAL CONTRACTOR TO PROVIDE AND/OR VERIFY FIRE BLOCKING AT 10' MAX VERTICAL SPACING AND AT CEILING HEIGHT IN ALL COMBUSTIBLE STUD WALLS, ACCORDING TO LOCAL CODE REQUIREMENTS.

PROPOSED PLAN KEY NOTES

1	PATCH AND REPAIR FINISHES WHERE DEMOLITION OCCURED. RE: FINISH FLOOR PLAN
2	NEW LOW HEIGHT WALL. RE: FURNITURE
3	REFER TO FURNITURE PLANS FOR SEATING AND QUEUING LAYOUT.

FLOOR PLAN GENERAL NOTES

1.	ALL DIMENSIONS SHOWN ARE FRAMING DIMENSIONS (FACE OF STUD/JAMB) UNLESS OTHERWISE NOTED.
2.	FASTENERS, ANCHORS, CLIPS, STRAPS, ETC WHICH ARE IN CONTACT WITH PRESERVATIVE AND/OR FIRE TREATED WOOD SHALL BE OF G-185 HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, OR AN APPROVED EQUAL.
3.	REFER TO CIVIL AND LANDSCAPE FOR LOCATIONS OF WALKS, BOLLARDS, LANDSCAPING AREAS, FLAG POLE, AND OTHER SITE ITEMS.
4.	REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND TYPES OF CORNER GUARDS.
5.	CONTRACTOR TO COORDINATE LOCATION OF POLE MOUNTED EXTERIOR CAMERA WITH STRONG SYSTEMS AND INSTALL UNDERGROUND CONDUIT AS REQUIRED. RE: ELECTRICAL.
6.	REFER TO ACCESSIBILITY PLAN AND FURNITURE DRAWINGS FOR SEATING LAYOUT & SPECIFICATIONS. CONTACT: OWNER.
7.	REFER TO ACCESSIBILITY PLAN AND OWNER DRAWINGS FOR CONDIMENT COUNTERS AND TRASH RECEPTACLES.
8.	REFER TO IT WALLBOARD USER GUIDE FOR WALLBOARD INSTALLATION, IF APPLICABLE.
9.	REFER TO MILLWORK PLAN FOR RAISED CONCRETE CURB LOCATIONS.
10.	REFER TO FINISH PLAN FOR NEW FINISHES.
11.	OCCUPANT LOAD SIGNS BY GC. PROVIDE 2"X8" BLACK SIGN WITH 1/2" WHITE HELVETICA LETTERS STATING MAXIMUM OCCUPANT LOAD AS INDICATED IN ARCH DRAWINGS.



FOUNDATION

FORMER PLAY AREA EXISTING RECESSED SLAB TO RECEIVE 1 1/2" CONCRETE TOPPING PER THE FOLLOWING SPECIFICATIONS.

1. PRIOR TO PLACING SLAB, EXISTING CONCRETE SLAB SURFACE SHALL HAVE ANY EXISTING SEALERS REMOVED AND CLEANED OF DIRT AND DEBRIS.
2. SURFACE OF EXISTING CONCRETE SLAB SHALL BE ROUGHENED AND ALL LATENT MATERIAL AND DEBRIS REMOVED.
3. SURFACE OF EXISTING CONCRETE SLAB SHALL BE DAMPENED JUST PRIOR TO PLACING TOPPING SLAB.
4. CONCRETE TOPPING SHALL BE 3/8" MAX. SIZE AGGREGATE WITH 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. MAXIMUM SLUMP SHALL BE 3 INCHES PRIOR TO ANY WATER REDUCING AGENTS ADDED.
5. CONCRETE TOPPING SHALL BE REINFORCED W 1-1/2 LBS. OF POLYPROPYLENE FIBERMESH PER CUBIC YARD OF CONCRETE.
6. SAWCUT CONTROL JOINTS SHALL BE PLACED WHERE EXISTING CONTROL JOINTS ARE LOCATED IN THE EXISTING CONCRETE SLAB.

FOUNDATION NOTES

1. TOP OF SLAB = 0'-0". 0'-0" IS FOR REFERENCE ONLY. SEE CIVIL FOR NGVD ELEVATION.
2. SEE MECH FOR ALL SLEEVES, PIPES, INSERTS AND EMBEDDED ITEMS.

1 PROPOSED FLOOR PLAN

1/4"=1'-0"

TRUE NORTH PROJECT NORTH

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

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220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

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LAUREL ROSE MARTIN
NUMBER A-2019008772
ARCHITECT

Digitally signed by Laurel R Martin
Date: 2024.07.18 16:59:11-04'00'

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR

690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT #	2023.0467
DATE	AUGUST 2023
DRAWN BY	SN
CHECKED BY	JC

SHEET
PROPOSED FLOOR PLAN

SHEET NUMBER
A-201

1

JESCHE - 07/17/2024 3:52:41 PM

LEGEND

FLOOR TILE.
REFER TO FINISH PLAN AND SCHEDULE

LAY-IN TILE AT 90° AS SHOWN
LAY-IN TILE AT 45° AS SHOWN

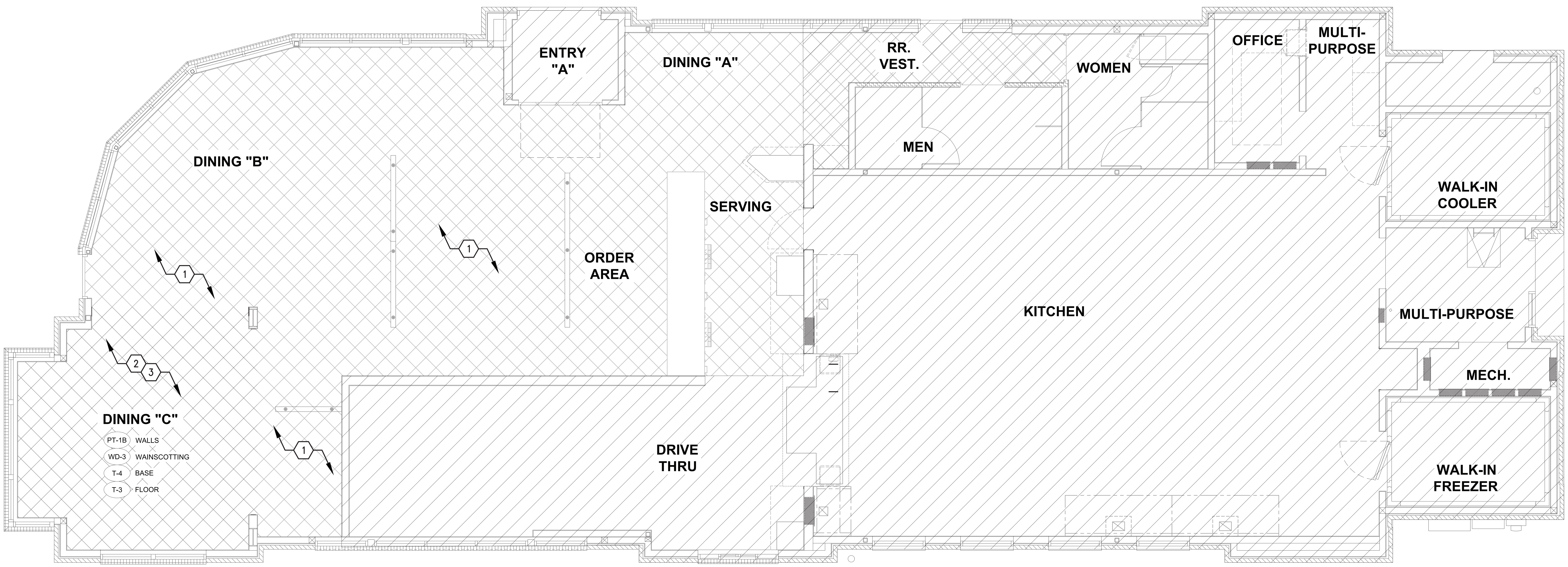
HATCHED AREAS DENOTES AREAS NOT IN SCOPE OF WORK UNLESS NOTED OTHERWISE.

FINISH PLAN KEY NOTES

1	EXISTING FLOORING TO REMAIN. PATCH AND REPAIR FINISHES AFFECTED BY DEMOLITION.
2	NEW FLOORING AS SCHEDULED.
3	PLAY AREA - NEW FLOORING AS SCHEDULED. REFER TO A-201 FOR SLAB-INFILL INFORMATION.

FINISH PLAN GENERAL NOTES

1.	PATCH AND REPAIR EXISTING FLOORING DISTURBED BY DEMOLITION. MATCH EXISTING TILE AND FINISH AND ADJACENT SURFACE. SET NEW TILE WITH ULTRA FLEX RAPID THIN SET GROUT. COLOR TO MATCH EXISTING.
2.	REFER TO SHEET A-005 FOR SCHEDULE OF FINISHES.
3.	TILE BASE TO WRAP CONCRETE CURBS AT SERVING COUNTER.
4.	DINING AREAS PART OF SCOPE OF WORK TO RECEIVE LEVEL 4 PAINT FINISHES.
5.	REFER TO PLUMBING PLANS FOR FLOOR DRAIN / SINK LOCATIONS.
6.	ALL DRAIN OVERS TO BE FLUSH WITH THE TOP OF TILE.
7.	ALL EXISTING FLOOR DRAINS THAT ARE ABANDONED NEED TO BE LEVELED AROUND ANY DRAINS OR CLEANOUT LOCATIONS.
8.	PROVIDE CG-3 AROUND PERIMETER OF BOH WINDOWS / DOOR
9.	ALL EXTERIOR DOORS TO RECEIVE THRESHOLD SET IN BED OF MASTIC.
10.	NO FINGER TILES ALLOWED AT CORNERS OF FLOOR TILE BASE.
11.	REFER TO FURNITURE PLANS FOR CORE DRILLING LOCATIONS IN DINING AREAS
12.	TILE CONTRACTOR SHALL PULL FLOOR AND WALL TILE FROM MULTIPLE BOXES TO ENSURE TILE COLOR VARIATION IN PUBLIC AREAS.
13.	PROVIDE FRACTURE MEMBRANE/SLIP SHEET AT ALL CONTROL/EXPANSION JOINTS TO ALLOW TILE TO BRIDGE.
14.	FLOAT & PREPARE FLOOR SLAB FOR NEW FLOOR TILE.
15.	CFA VENDOR TO CLEAN FLOOR AND EQUIPMENT.
16.	FOR WAINSCOTTING WHERE GRAPHIC MESSAGE EXTENDS ABOVE TOP HORIZONTAL TRIM CAP, INSTALLER TO FIELD CUT VERTICAL BATTENS AND TOP CAP AT GRAPHICS AS REQUIRED.



TRUE NORTH PROJECT NORTH

1 FINISH FLOOR PLAN
1/4"=1'-0"

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Atlanta, Georgia
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ARCH COA #2015008774
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT #	2023.0467
DATE	AUGUST 2023
DRAWN BY	SN
CHECKED BY	JC

SHEET
FINISH FLOOR PLAN

SHEET NUMBER
A-211

JESCHE - 07/17/2024 3:53:08 PM

RCP GENERAL NOTES

1.	REFER TO ELECTRICAL SHEETS FOR MORE INFORMATION ON LIGHT SPECS.
2.	ALL EMERGENCY LIGHTING IS EXISTING TO REMAIN U.N.O.
3.	CEILINGS ARE EXISTING TO REMAIN U.N.O.
4.	REFER TO MECHANICAL SHEETS FOR CLARIFICATION ON NEW AND EXISTING SUPPLY AND RETURN DIFFUSERS.
5.	REFER TO MANUFACTURER SPEC SHEETS FOR INSTALLATION OF CEILING MOUNTED AIR CURTAIN.
6.	ALL EXTERIOR LIGHTING TO REMAIN U.N.O.
7.	EXISTING AWNINGS AND ENTRY CANOPY TO REMAIN U.N.O.
8.	GC TO COORDINATE WITH OWNER REPRESENTATIVE FOR SECURITY CAMERAS SCOPE.

CEILING TYPE LEGEND

SYMBOL	DESCRIPTION
XXX-X	FINISH TAG. RE: FINISH SCHEDULE
A EXIST	EXISTING ACOUSTICAL CEILING TILE AND SUSPENSION GRID TO REMAIN. PATCH AND REPAIR AS NEEDED. MATCH HEIGHT OF EXISTING CEILING.
B X'-X"	NEW ACOUSTICAL CEILING TILE AND SUSPENSION GRID SYSTEM. MATCH HEIGHT OF EXISTING CEILING
C EXIST	NEW ACOUSTICAL CEILING TILES - EXISTING GRID TO REMAIN. MATCH EXISTING TILE TYPE.
D EXIST	EXISTING TO REMAIN CLEAN, PATCH & REPAIR AS NEEDED
E X'-X"	NEW HARD CEILING. PAINT AS SPECIFIED.

CEILING LEGEND

NEW ACT AND GRID PER SCHEDULE	EXISTING ACT AND GRID TO REMAIN	GYP BD CEILING (COLOR/FINISH DETERMINED BY KEYNOTE) PROVIDE NEW AS NOTED. REPAIR AS REQUIRED
6" RECESSED LED FIXTURE	DIFFUSERS/ RETURNS. RE: MECH	EMERGENCY LIGHTING
2x2 RECESSED FLUORESCENT LIGHT FIXTURE	2x4 RECESSED FLUORESCENT LIGHT FIXTURE	EGG CRATE LIGHT LENSE RE: ELECTRICAL
CEILING MOUNTED AIR CURTAIN. RE: MECH	BACK OF HOUSE FLY LIGHT. RE: KITCHEN DRAWINGS	SPRINKLER HEAD IF ADJUSTMENT IS REQUIRED, PLEASE REFER TO SPRINKLER SHOP DWGS.
HATCHED AREAS DENOTES AREAS NOT IN SCOPE OF WORK UNLESS NOTED OTHERWISE.	CEILING STARTING POINT	

LIGHTING NOTES:
1. REFER TO ELECTRICAL SHEETS FOR MORE INFORMATION ON LIGHT SPECS.
2. ALL EMERGENCY LIGHTING IS EXISTING TO REMAIN U.N.O.

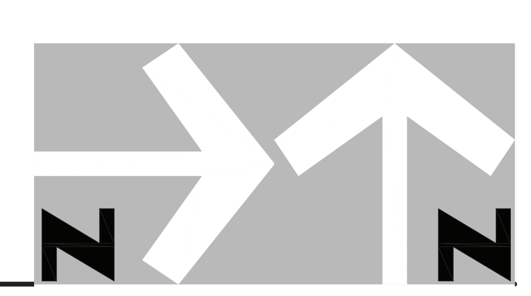
EXISTING
RELOCATED
DEMO
NEW

PROPOSED RCP KEY NOTES

1	REFER TO ARCHITECTURAL SITE PLAN & CANOPY SHOP DRAWINGS FOR CANOPY SCOPE.
2	NEW SOFFIT AND COKE LIGHT FIXTURE CENTERED ABOVE GATHERING TABLE. RE: FURNITURE

PROPOSED REFLECTED CEILING PLAN

1/4"=1'-0"



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FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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REVISION SCHEDULE

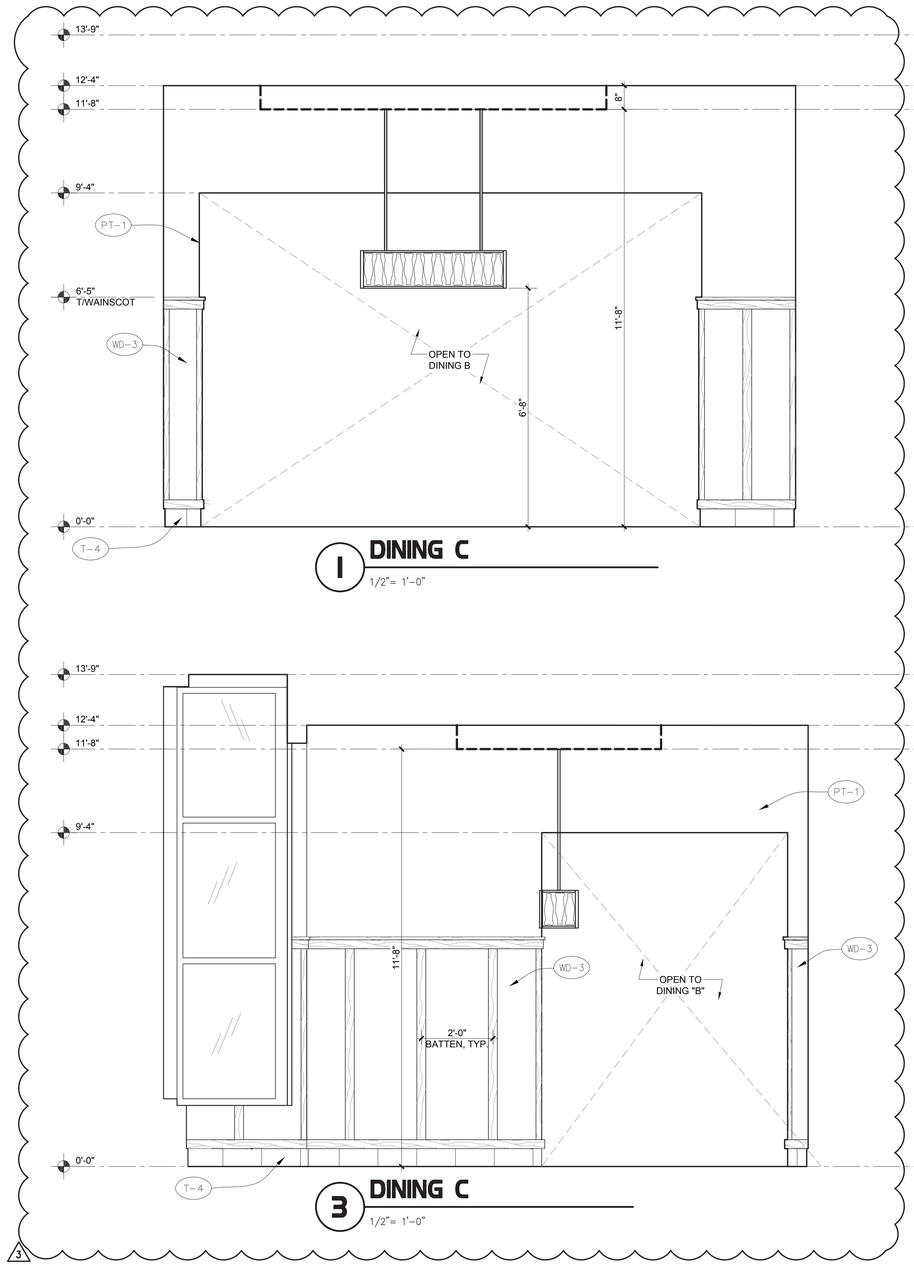
NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL
3	04/03/24	DESIGN COMMENTS

CONSULTANT PROJECT #	2023.0467
DATE	AUGUST 2023
DRAWN BY	SN
CHECKED BY	JC

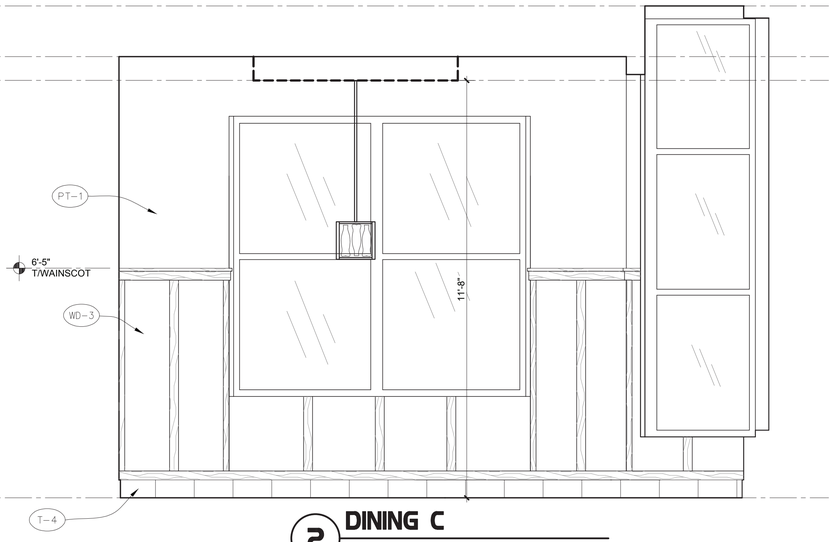
SHEET
PROPOSED REFLECTED CEILING PLAN
SHEET NUMBER
A-221

JESCHE - 07/17/2024 3:52:02 PM

	INTERIOR ELEVATION GENERAL NOTES
1.	ALL DIMENSIONS SHOWN ARE FRAMING DIMENSIONS (FACE OF STUD/JAMB) UNLESS OTHERWISE NOTED.
2.	GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEET FOR LOCATIONS. REFER TO ARCH DETAIL SHEETS FOR LOCATIONS.
3.	PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
4.	PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
5.	PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
6.	AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
7.	BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
8.	REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS.
9.	REFER TO ARCH DETAILS FOR CORNER GUARD DETAIL.
10.	REFER TO KITCHEN PLANS FOR EQUIPMENT AND COUNTER TOP LAYOUTS.

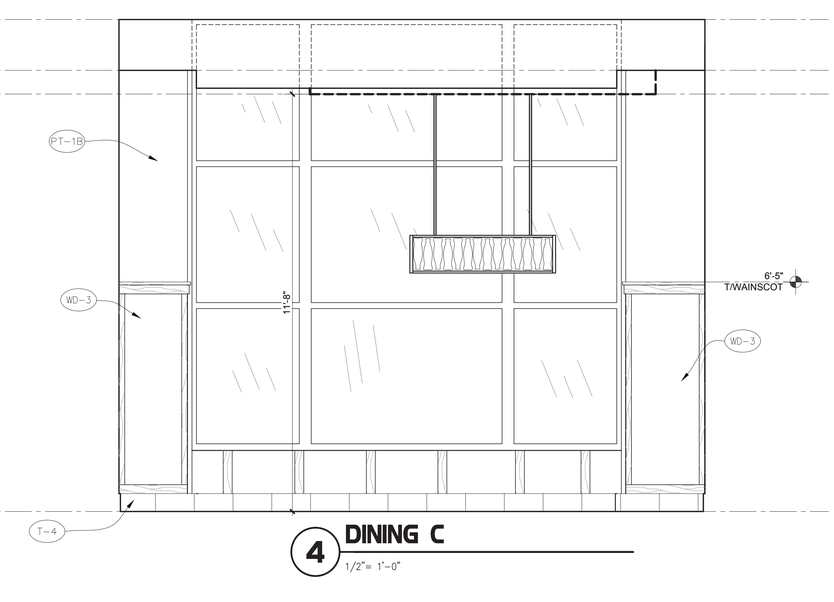


1 DINING C
1/2"= 1'-0"



2 DINING C
1/2"= 1'-0"

3 DINING C
1/2"= 1'-0"



4 DINING C
1/2"= 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STATE OF MISSOURI
LAUREL ROSE MARTIN
NUMBER A-2019008772
ARCHITECT

Digitally signed by Laurel R Martin
Date: 2024.07.18 16:59:18-04'00'

LAUREL ROSE MARTIN - ARCHITECT
LIC. # A-2019008772

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL
3	04/03/24	DESIGN COMMENTS

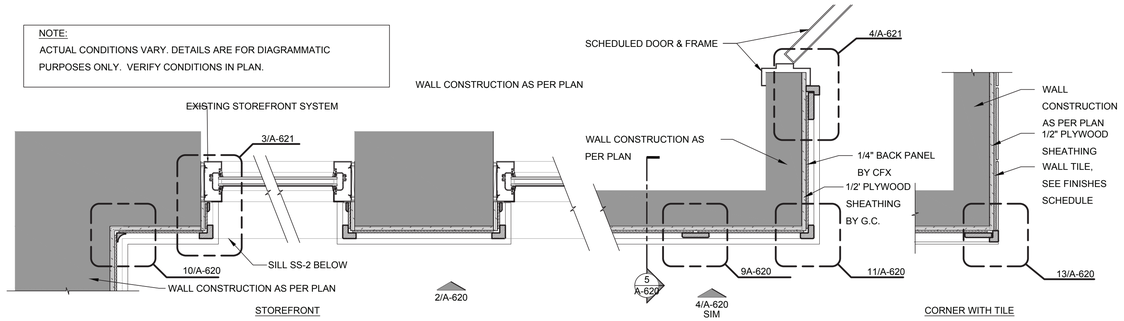
CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY SN
CHECKED BY JC

SHEET
INTERIOR ELEVATIONS

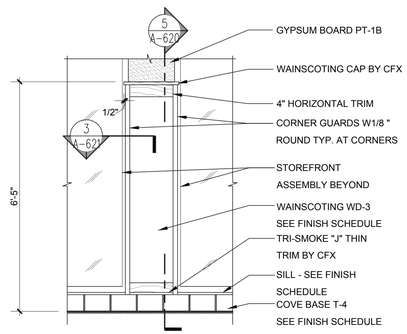
SHEET NUMBER
A-601

JESCHE - 07/17/2024 3:53:00 PM

NOTE:
ACTUAL CONDITIONS VARY. DETAILS ARE FOR DIAGRAMMATIC PURPOSES ONLY. VERIFY CONDITIONS IN PLAN.



1 WAINSCOTING PLAN DIAGRAM
SCALE: 1 1/2" = 1'-0"



2 WAINSCOTING ELEVATION AT WINDOW
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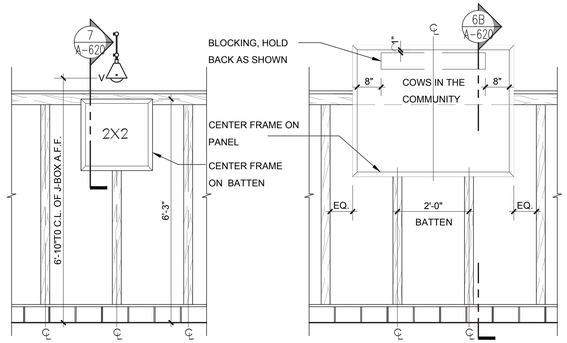
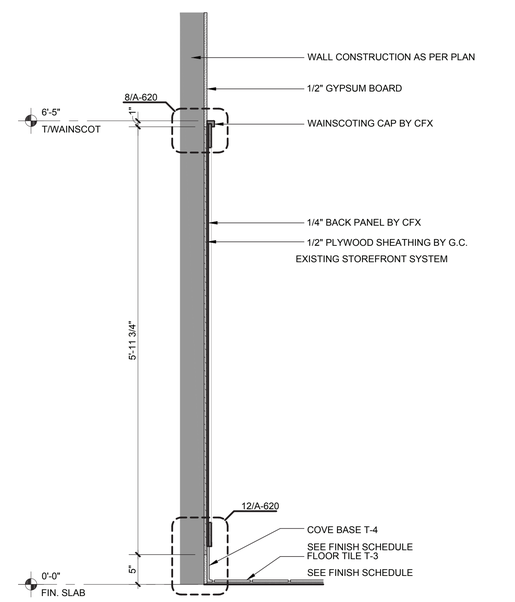


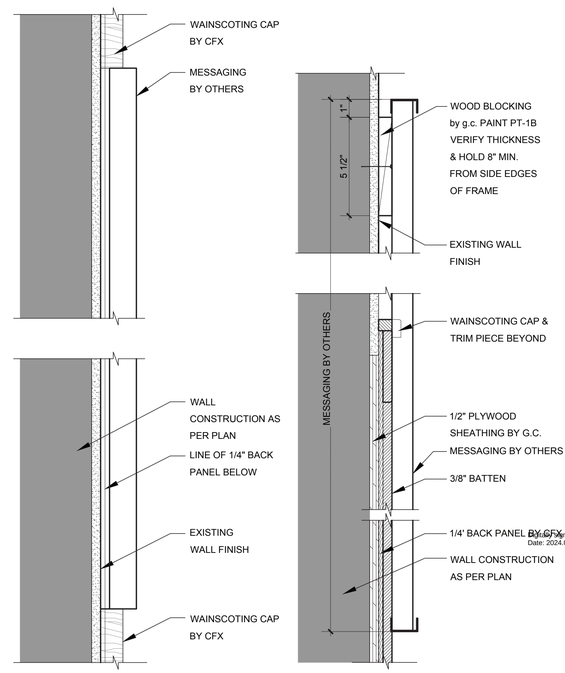
3 WAINSCOTING ELEVATION AT SIGNAGE
SCALE: 1/2" = 1'-0"



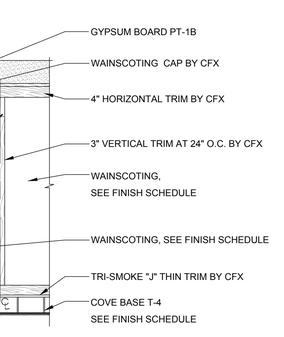
GENERAL NOTE:

WAINSCOTTING MATERIAL BY CFX/ G.C. TO ORDER FROM CFX & INSTALL:
1. 1/4" PLYWOOD (WHITE OAK, PLAIN CUT W/ LUAN CORE)
2. SOLID STOCK TO BE WHITE OAK (STAINED GRIFFIN LIGHT W/ GLAZE)

5 WALL SECTION AT WAINSCOTTING
SCALE: 1" = 1'-0"



6 MESSAGING AT WAINSCOTING
SCALE: 3" = 1'-0"



4 TYPICAL WAINSCOTING ELEVATION
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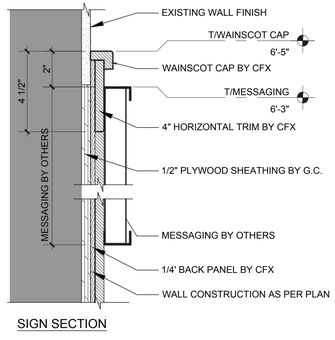

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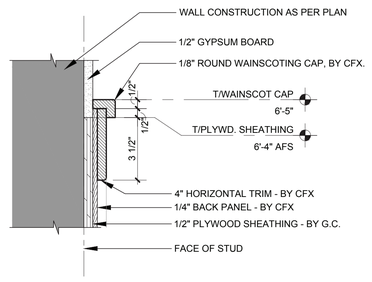
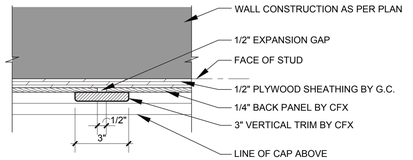


8 WAINSCOTING CAP DETAIL
SCALE: 3" = 1'-0"



9 WAINSCOTING TRIM DETAIL
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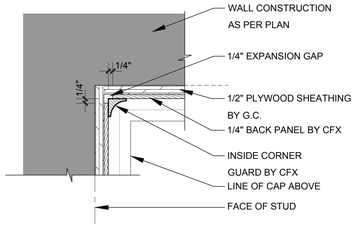

10 WAINSCOTTING CORNER DETAIL
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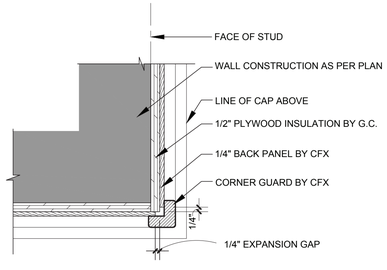
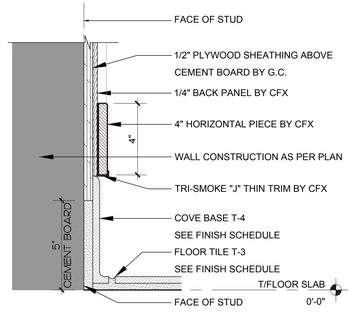
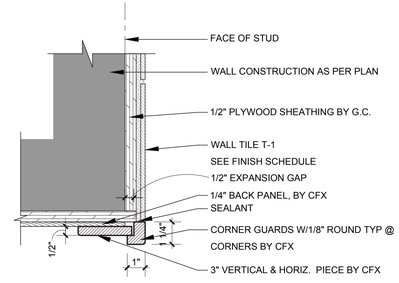


11 WAINSCOTTING CORNER DETAIL
SCALE: 3" = 1'-0"



12 WAINSCOTTING BASE DETAIL
SCALE: 3" = 1'-0"



13 WAINSCOTING TO TILE CORNER
SCALE: 3" = 1'-0"

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CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY SN
CHECKED BY JC

SHEET
INTERIOR DETAILS

SHEET NUMBER
A-620

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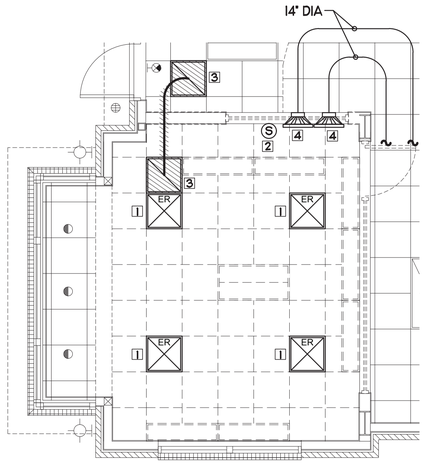
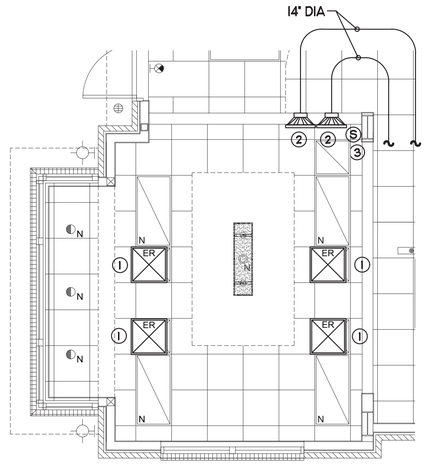


1 MECH DEMOLITION PLAN

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



2 MECH FLOOR PLAN

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

DEMOLITION KEY NOTES

1. EXISTING AIR DEVICE TO BE RELOCATED.
2. EXISTING REMOTE TEMPERATURE SENSOR TO BE RELOCATED.
3. DEMOLISH EXISTING TRANSFER AIR GRILLS.
4. EXISTING AIR DEVICE TO REMAIN.

DEMOLITION LEGEND

	EXISTING EQUIPMENT, DUCT, AIR DEVICES ETC. TO REMAIN INTACT.
	EXISTING EQUIPMENT, DUCT, AIR DEVICES ETC. TO BE DEMOLISHED.

HVAC LEGEND

A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1
	SPIN-IN HARD FLEXIBLE DIFFUSER		RETURN/EXHAUST (TYP.)
	EXISTING EQUIPMENT, DUCT, & AIR DEVICE		SUPPLY DIFFUSER, SQ FACE
	NEW EQUIPMENT, DUCT, & AIR DEVICE		PLAN NOTE REFERENCE
T	THERMOSTAT		MANUAL VOLUME DAMPER

MECH. KEY NOTES

1. EXISTING AIR DEVICE TO BE RELOCATED.
2. EXISTING AIR DEVICE TO BE REMAIN.
3. RELOCATE AC#3 THERMOSTAT WALL MOUNTED AT 5'-0" AFF, ROUTE WIRING BACK TO SUNCOAST CONTROL PANEL.

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ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2016036828
PROFESSIONAL ENGINEER

Stacy T Henson 2024.07.18 16:17:20-04'00'

STACY HENSON - PROFESSIONAL ENGINEER
LIC. # PE-2016036828

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

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BUILDING TYPE / SIZE: S08N-104-R, V6
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REVISION SCHEDULE

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CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY AR
CHECKED BY DAK

SHEET
MECHANICAL FLOOR PLAN

SHEET NUMBER
M1.1

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AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING AREA KITCHEN TEAM MEMBER	SEE PLAN	24X24	LAY-IN	1,2
NOTES	• MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.					
REMARKS	1. STANDARD OFF WHITE FINISH. 2. FACTORY INSULATED R-6 BACKPAN.					

I. SECTION C15000 - MECHANICAL SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.

B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.

C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.

E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE AT COMPLETION OF JOB. ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.

F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

2.01 DUCTWORK (C15735)

A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.

B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).

C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.

D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.

E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.

F. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.

G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.

I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.

J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION.

K. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.

L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWING M3.1.

M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE.

N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.

O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.

P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".

Q. RADIUSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO, R=W PER FIGURE NO. 2-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

R. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

PART III - EXECUTION

3.01 SCOPE

A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

B. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NCI OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.

C. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.

D. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

E. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER.

NATIONAL ACCOUNTS

1. PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

2. AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

FIELD VERIFY ALL CONDITIONS

NOTE: AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THECOSTSFOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS. NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

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SEAL:

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010036828
PROFESSIONAL ENGINEER

Stacy T Henson 2024.07.18 16:17:22-04'00'

STACY HENSON - PROFESSIONAL ENGINEER
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SHEET NUMBER
M2.1

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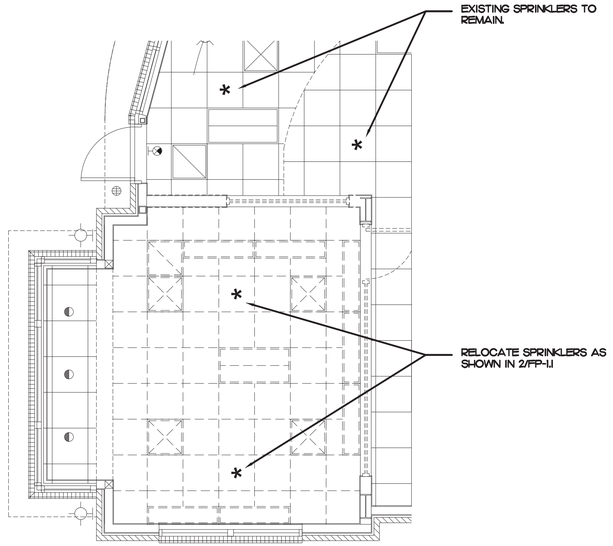
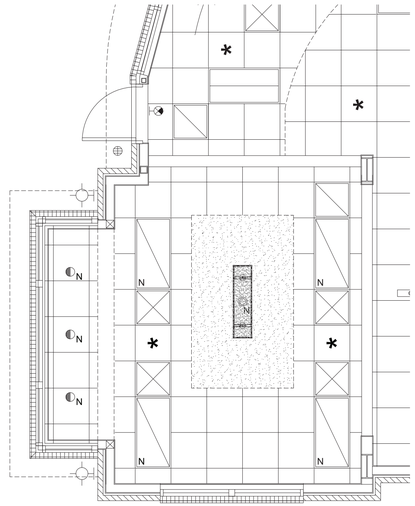


1 DEMOLITION PLAN

1/4"= 1'-0"



2 FIRE PROTECTION PLAN

1/4"= 1'-0"

LEGEND

- * PENDANT SPRINKLER
- DRY SPRINKLER

SPRINKLER NOTES

THE WET SPRINKLER WET SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA #13 (2013 EDITION) AND NFPA #14 (2013 EDITION), AND IFC (2012 EDITION).
HOSE STREAM TO MEET OR EXCEED THE REQUIREMENTS OF NFPA #13 AND LOCAL AUTHORITY.

THESE DRAWINGS ARE PERFORMANCE SPECIFICATION ONLY AND ARE ONLY INTENDED TO CONVEY THE GENERAL SCOPE OF WORK. IT IS THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR TO SUBMIT SIGNED AND SEALED DRAWINGS AND HYDRAULIC CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AS DEFINED IN THE INTERNATIONAL BUILDING CODE AND NFPA #13 , 14-1 WORKING PLANS.

THE CONTRACTOR SHALL PROVIDE ALL MATERIAL LABOR, TRUCKING, HOISTING, ENGINEERING, SCAFFOLDING, POWER HOOK UP'S, PROTECTION, SHOP DRAWINGS, LAYOUT, EQUIPMENT, SUPERVISION, AND INSURANCE ETC. NECESSARY FOR THE FURNISHING AND INSTALLATION OF ALL SPECIFIED AND RELATED WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, APPLY FOR ALL PERMITS AND PAY ALL GOVERNMENTAL TAXES, FEES AND SEAL ALL NECESSARY PLANS ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS FORM ALL DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATIONS OF INSPECTION FOR HIS/HER WORK AND DELIVER SAME TO THE OWNER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

THE CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES. CONTRACTOR TO COORDINATE FIRE PROTECTION EQUIPMENT LOCATIONS TO AVOID LIGHTS AND AIR DIFFUSERS.

PIPE MATERIAL AND HANGERS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF NFPA #13.

IT IS THE FIRE SPRINKLER CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SPRINKLER COVERAGE IN AREAS OUTSIDE SCOPE OF WORK THAT BECOME UNPROTECTED BY EXISTING SPRINKLERS DUE TO NEW CONSTRUCTION.

PROVIDE UPRIGHT SPRINKLER HEADS IN THE NON-CONDITIONED SPACE ABOVE CEILING.

GIGIS CRITERIA

32.004(2)(A)
THE POINT OF SERVICE IS INDICATED AT THE BACKFLOW PREVENTER.
AT THIS POINT, THE SYSTEM IS DEDICATED SOLELY FOR FIRE PROTECTION PURPOSES. NO DOMESTIC WATER SHALL BE TAKEN FROM THE SYSTEM BEYOND THIS POINT FOR OTHER PURPOSES.

32.004(2)(B)
THE FOLLOWING ARE APPLICABLE STANDARDS:
NFPA 13, 2013 EDITION, INSTALLATION OF SPRINKLER SYSTEMS.
NFPA 24, 2010, EDITION, STANDARD FOR THE INSTALLATION OF PRIVATE OF FIRE SERVICE MAINS AND FIRE APPURTENANCES.
NFPA 25, 2011 EDITION, INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS.

32.004(2)(C)
CLASSIFICATIONS OF HAZARD OCCUPANCIES FOR THE AREAS OF DESIGN SHALL BE AS FOLLOWS:
(CORRIDORS,RESTROOMS,OFFICES AND OTHER SIMILAR OCCUPANCIES) LIGHT HAZARD OCCUPANCY PER NFPA# 13, 2013 EDITION.
(RESTAURANT PREPARATION AREAS) ORDINARY HAZARD GROUP 1 PER NFPA# 13, 2013 EDITION.
(SALES FLOOR, MECHANICAL ELECTRICAL AND STORAGE ROOMS) ORDINARY HAZARD GROUP 2 PER NFPA #13, 2013 EDITION.

32.004(2)(D)
THE SPRINKLER SYSTEM SHALL BE WET PIPE FOR LIGHT HAZARD OCCUPANCY AND SHALL BE HYDRAULICALLY CALCULATED PER NFPA #13, 2013 EDITION AS A DENSITY OF 0.10 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. SPRINKLER SHALL HAVE A TEMPERATURE RATING OF 155 F AND THE SPACING SHALL BE 225 SQ.FT. INCLUDE A FIRE HOSE ALLOWANCE OF 100 GPM.

THE SPRINKLER SYSTEM SHALL BE WET PIPE FOR ORDINARY HAZARD GROUP 1 OCCUPANCY AND SHALL BE HYDRAULICALLY CALCULATED PER NFPA #13, 2013 EDITION AS A DENSITY OF 0.15 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. SPRINKLER SHALL HAVE A TEMPERATURE RATING OF 155 F AND THE SPACING SHALL BE 130 SQ.FT. INCLUDE A FIRE HOSE ALLOWANCE OF 100 GPM.

THE SPRINKLER SYSTEM SHALL BE WET PIPE FOR ORDINARY HAZARD GROUP 2 OCCUPANCY AND SHALL BE HYDRAULICALLY CALCULATED PER NFPA #13, 2013 EDITION AS A DENSITY OF 0.2 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. SPRINKLER SHALL HAVE A TEMPERATURE RATING OF 155 F AND THE SPACING SHALL BE 130 SQ.FT. INCLUDE A FIRE HOSE ALLOWANCE OF 250 GPM.

32.004(2)(E)
WATER SUPPLY: THIS BUILDING WILL BE SUPPLIED BY A NEW 6" UNDERGROUND FIRE MAIN WHICH CONNECTS TO TO AN EXISTING 6" WATER MAIN LOCATED IN THE BACK OF THE BUILDING.

32.004(2)(F)
SEE ATTACHED MOST RECENT FLOW TEST DATA, PROVIDED BY SPRINKLER CONTRACTOR.

32.004(2)(G)
VALVE AND ALARM REQUIREMENTS: ALL CONTROL VALVES ON THE SPRINKLER RISER AND BACKFLOW PREVENTER SHALL HAVE TAMPER SWITCHES.
FLOW SWITCHES SHALL BE SET NOT TO ALARM WITH MINOR CITY WATER PRESSSURE FLUCTUATIONS. HOWEVER THE FLOW OF ONE SPRINKLER HEAD SHALL PRODUCE AN ALARM CONDITION BY TRIPPING THE FLOW SWITCH.
ALL FLOW AND TAMPER SWITCHES SHALL ALSO SOUND THE ELECTRIC ALARM BELL ON THE OUTSIDE WALL.
FIRE SPRINKLER CONTRACTOR SHALL VERIFY AND TEST PER NFPA#13.

32.004(2)(H)
THE LOCAL WATER PURVEYOR IS REQUESTED TO ADVISE THE ENGINEER OF RECORD IF CONDITIONS EXIST IN THEIR WATER SUPPLY THAT COULD LEAD TO MIC. SO THAT THE ENGINEER CAN DESIGN CORRECTIVE MEASURES.

32.004(2)(I)
BACKFLOW PREVENTER AND METERING SPECIFICATIONS SHALL MEET OR EXCEED REQUIREMENTS OF LOCAL JURISDICTION.

32.004(2)(J)
YARD AND INTERIOR FIRE PROTECTION COMPONENTS:
PRODUCT DATA SHEETS SHALL BE SUBMITTED BY THE SPRINKLER CONTRACTOR ALONG WITH THEIR SHOP DRAWINGS.
ALL FIRE PROTECTION DEVICES AND COMPONENTS SHALL BE UL LISTED AND FM APPROVED.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

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ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
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407.645.5008

SEAL:

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2016036828
PROFESSIONAL ENGINEER

Stacy T Henson 2024.07.18 16:17:23-04'00'

STACY HENSON - PROFESSIONAL ENGINEER
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CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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PERMIT

REVISION SCHEDULE

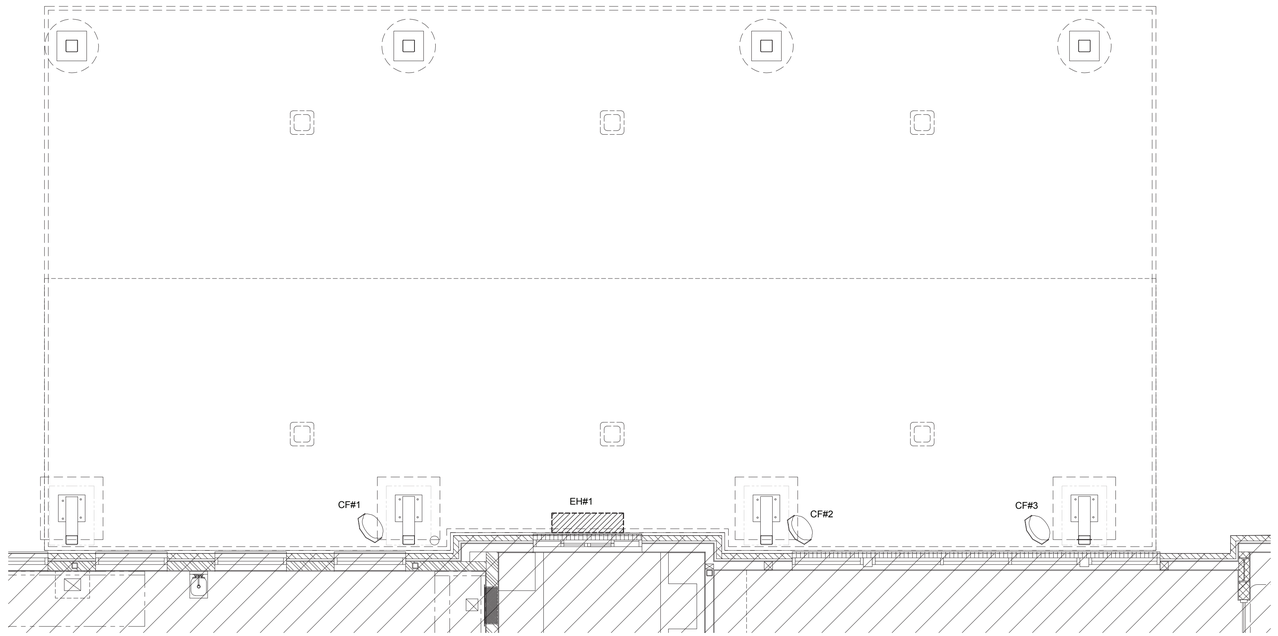
NO.	DATE	DESCRIPTION
04	04/17/24	RFI#5

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY AAE
CHECKED BY DAK

SHEET
FIRE SPRINKLER PLAN

SHEET NUMBER
FP1.1

MARIBR - 07/18/2024 2:27:58 PM



1 GAS PLUMBING PLAN - OMD CANOPY

1/4"= 1'-0"

GENERAL NOTES

1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR. USE ANTI-CORROSIVE PAINT AND COORDINATE WITH CFA CONSTRUCTION MANAGER.

LEGEND	
CF#1	CIRCULATING FAN #1 (TYP)
EH#1	ELECTRIC HEATER #1 (TYP)
————	NEW GAS PIPING ABOVE GRADE
- - - - -	NEW GAS PIPING BELOW GRADE
B/G	BELOW GRADE
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR

FIELD VERIFY ALL CONDITIONS

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NATIONAL ACCOUNTS

1. SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
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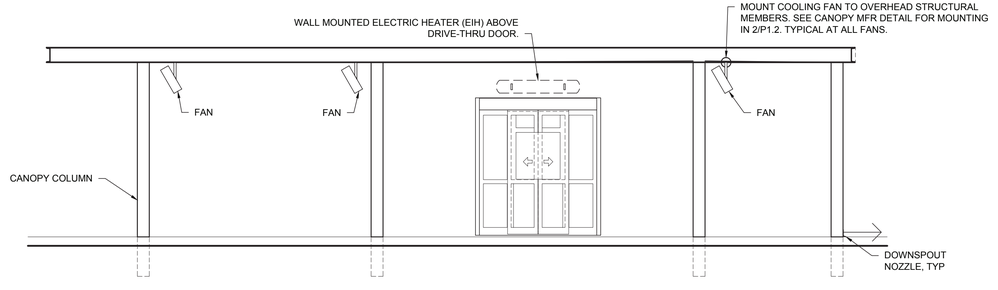

2 HEATER FAN SECTION

NO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
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PROFESSIONAL ENGINEER

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STACY HENSON - PROFESSIONAL ENGINEER
LIC. # PE-2016036828

CHICK-FIL-A
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690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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PERMIT

REVISION SCHEDULE

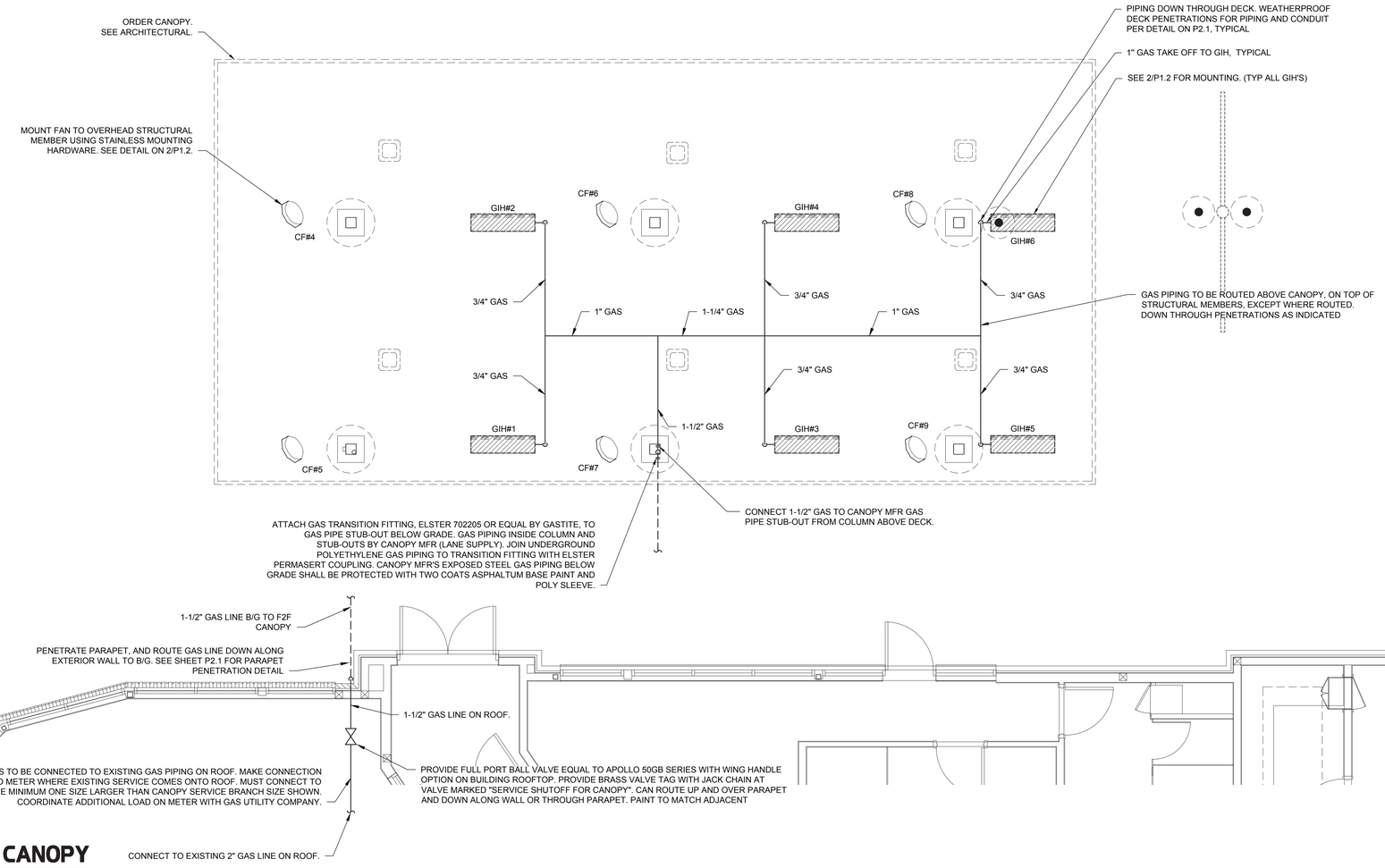
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY SE
CHECKED BY DAK

SHEET
OMD GAS PLUMBING PLAN

SHEET NUMBER
P1.1

MARIBR - 07/18/2024 2:22:29 PM



1 GAS PLUMBING PLAN - F2F CANOPY

1/4"= 1'-0"

GENERAL NOTES

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B/G	BELOW GRADE
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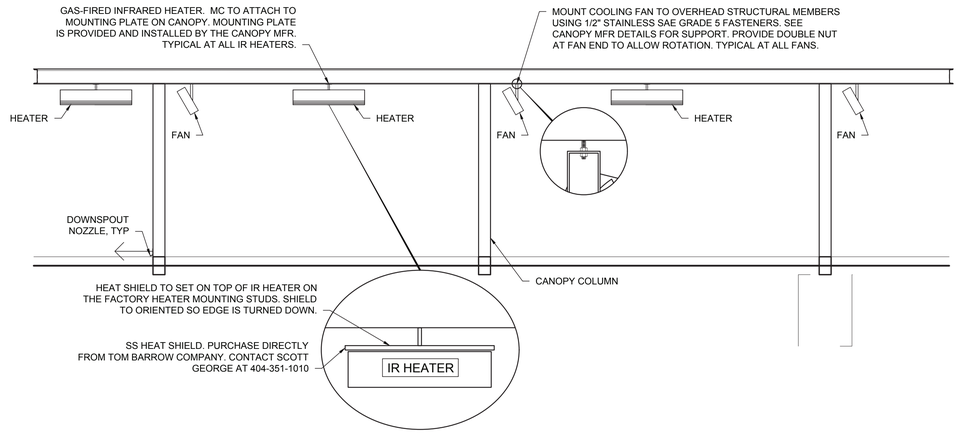

2 HEATER FAN SECTION

NO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904
ARCHITECTURE
ENGINEERING
FERMITTING
220 E. CENTRAL PKWY, STE 4000
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407.645.5008

SEAL:

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2016036828
PROFESSIONAL ENGINEER

Stacy T Henson 2024.07.18 16:17:26-04'00'

STACY HENSON - PROFESSIONAL ENGINEER
LIC. # PE-2016036828

CHICK-FIL-A
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690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
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PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY SE
CHECKED BY DAK

SHEET
F2F GAS PLUMBING PLAN

SHEET NUMBER
P1.2

GAS CONNECTION SCHEDULE	
EQUIPMENT	GAS LOAD
EXISTING AC#1	480,000 BTU'S
EXISTING AC#2	150,000 BTU'S
EXISTING AC#3	240,000 BTU'S
EXISTING AC#4	150,000 BTU'S
EXISTING WATER HEATER	80,000 BTU'S
NEW GAS HEATERS (6)	(6) 50,000 BTU'S
TOTAL CONNECTED LOAD	1,400,000 BTU'S
REMARKS:	1. EQUIVALENT TO 1,400 CFH @ pressure drop 0.5 IN. W.C. W/ DEVELOP LENGTH OF 279 FT (METER TO GIH#6) 2. 7" w.c. DELIVERY PRESSURE. 3. VERIFY GAS LOAD OF EXISTING EQUIPMENT.

GAS FIRED INFRARED HEATER SCHEDULE							
MARK	INPUT (MBH)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
GIH	50.0	48"	13"	10"	BRACKET	2352-NG	SCHWANK
REMARKS	1. STEEL BURNER WITH CERAMIC BURNER TILES. 2. STAINLESS STEEL LENS WITH BLOCK EMISSIVE COATING. 3. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING DOWNWARD, 12" LATERALLY FROM THE SIDE OF THE HEATER 4. MOUNTING BRACKET PROVIDED AND INSTALLED BY CANOPY MFR. 5. PROVIDE HEAT SHIELD ABOVE EACH HEATER AT THE BOTTOM OF THE BRACKET.						

CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI
REMARKS	1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER 2. 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY 3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD 4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR 5. FACTORY PRE-WIPED POWER CORD 6. PROVIDE FACTORY WALL MOUNTING BRACKET. SEE DETAIL 3/M2.1 FOR TYPICAL INSTALLATION INSTRUCTIONS 7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" LATERALLY FROM THE FAN LOCATION 8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD 9. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.				

NOTE:

CONTRACTOR TO VERIFY EXISTING GAS SYSTEM CAN HANDLE NEW GAS LOAD. RESIZE AND INSTALL NEW GAS PIPING AS REQUIRED IF EXISTING GAS PIPING IS UNDERSIZED FOR NEW GAS LOAD AND PIPE LENGTH. FIELD VERIFY EXACT CONDITIONS PRIOR TO BID.

NATIONAL ACCOUNTS	
1	SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
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IMPORTANT NOTE - PLEASE READ

NUMBERS OF GAS INFRARED HEATERS AND CIRCULATING FANS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.

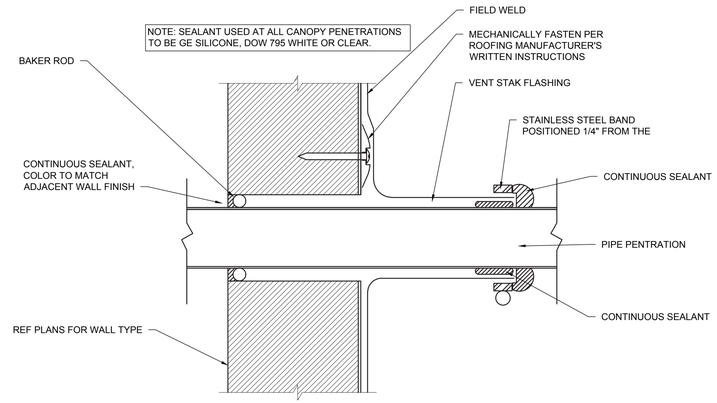
GENERAL NOTES

GENERAL NOTES
1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.

2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.

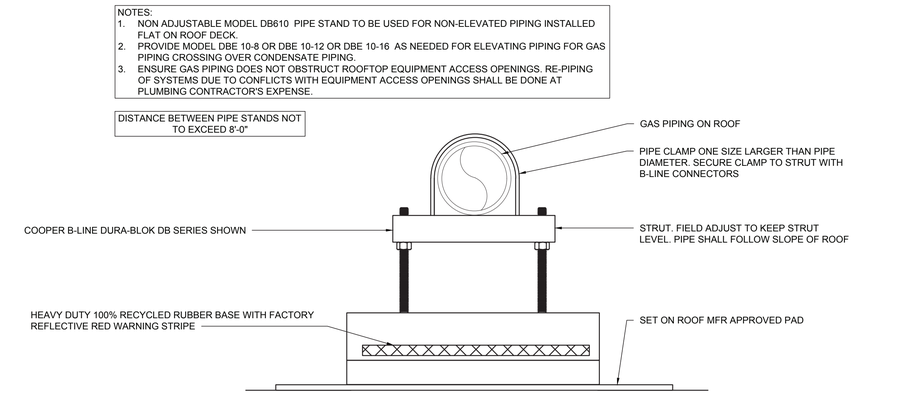
3. EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.

ELECTRIC HEATER SCHEDULE								
MARK	OUTPUT (kW)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER	VOLTAGE
		LENGTH	WIDTH	DEPTH				
EIH	5.4-5.9	56"	8.5"	3.5"	BRACKET	BH04200-35(33)	BROMIC	208V(230-240V) / 60Hz / 28.4A(25A)
REMARKS	1. PROVIDE ROTARY TIMER SWITCH (TORK#C502H-2 HOUR MAX) TO BE MOUNTED INSIDE DRIVE-THRU AREA NEXT TO DRIVE-THRU DOOR. LABEL SWITCH FOR OUTSIDE HEATER 2. BLACK HIGH TEMPERATURE COATING 3. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING DOWNWARD, 12" LATERALLY FROM THE SIDE OF THE HEATER 4. MOUNTING BRACKET TO BE PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR. FOLLOW MANUFACTURERS INSTALLATION RECOMMENDATION 5. PROVIDE 2-POLE 40-AMP BREAKER IN A PANEL WITH AVAILABLE CAPACITY.							



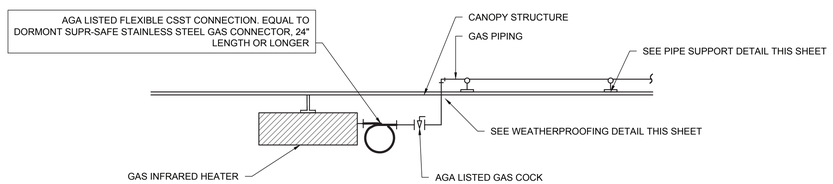
PARAPET PENETRATION DETAIL

NO SCALE



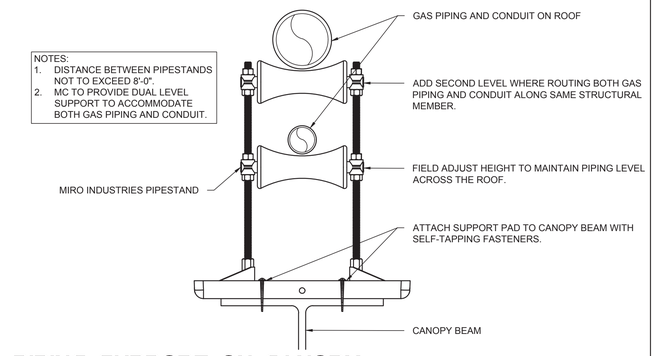
PIPING SUPPORT ON MAIN BUILDING ROOF

NO SCALE



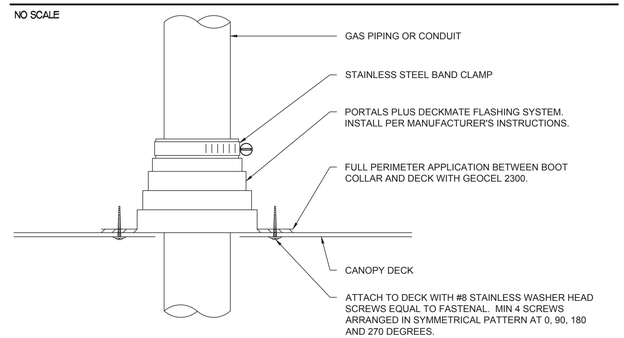
GAS CONNECTION AT APPLIANCE

NO SCALE



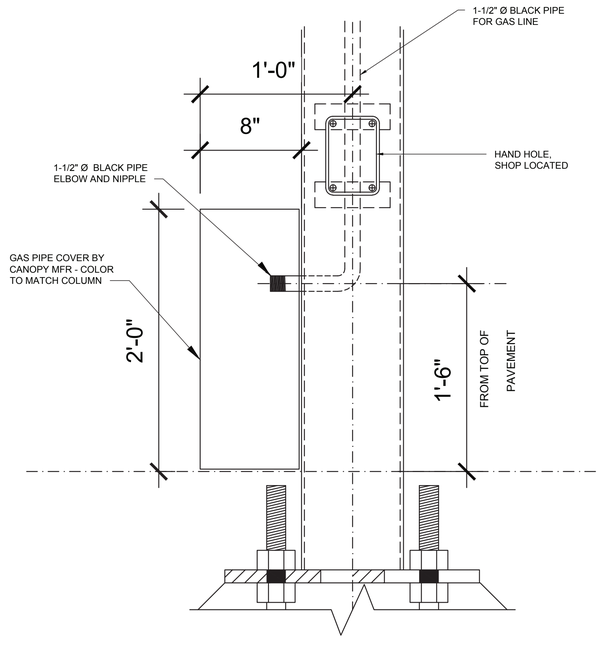
PIPING SUPPORT ON CANOPY

NO SCALE



WEATHER PROOFING AT CANOPY PENETRATION

NO SCALE



COLUMN GAS PIPE COVER

NO SCALE

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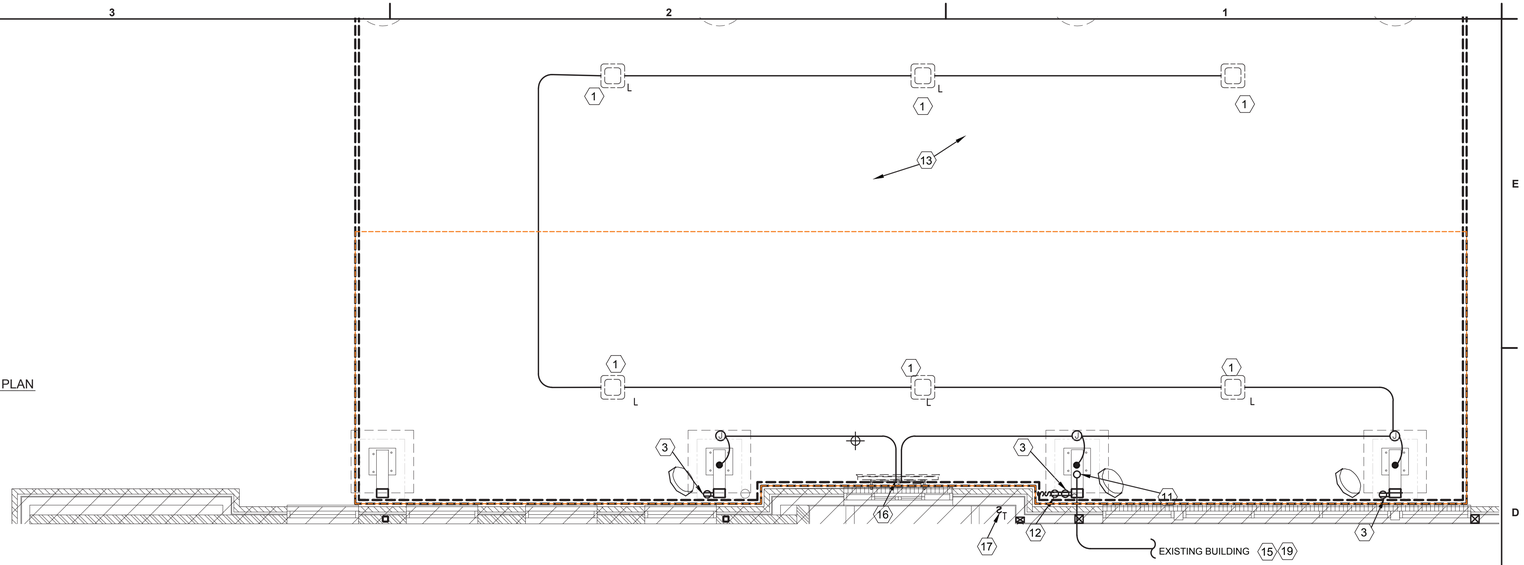
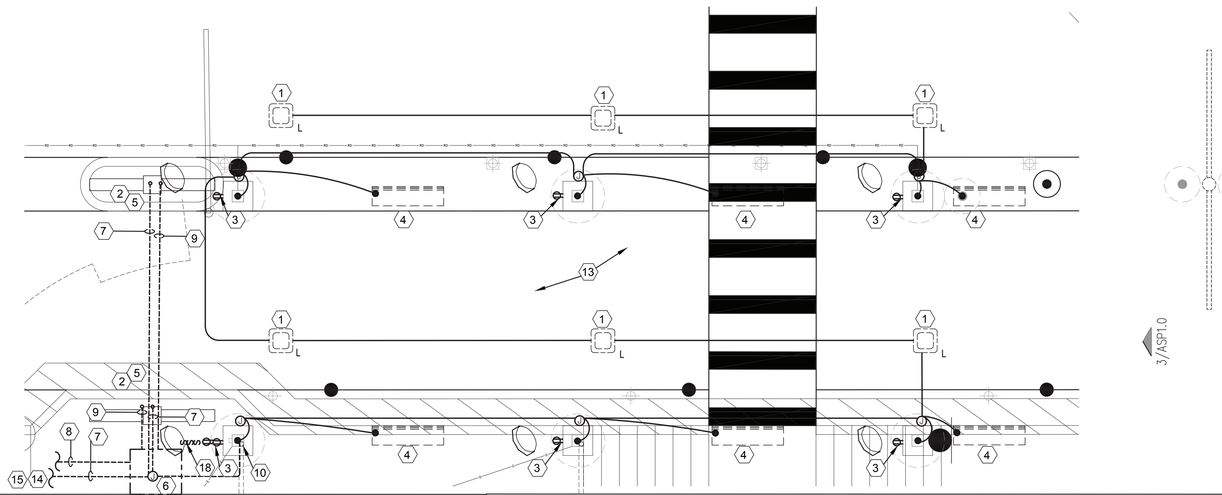
P2.1

ELECTRIC INFRARED HEATER SCHEDULE - CHICK-FIL-A

MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE/PH	WATTS	AMPS		REMARKS
H	BROMIC	BH042003	208V/1PH	6000	25		



3 MEAL DELIVERY CANOPY POWER PLAN
SCALE: 1/4" = 1'-0"



2 ORDER CANOPY POWER PLAN
SCALE: 1/4" = 1'-0"

LEGEND

----------	UNDERGROUND
————	ABOVE GROUND

KEYED NOTES

1. CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
2. NEW OPEN/CLOSED LIGHTS ON ORDER CANOPY.
3. AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A GFCI DUPLEX OUTLET (WITH IN-USE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FAN'S PLUG & CORD. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
4. INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
5. NEW MENUBOARD WITHOUT CANOPY.
6. NEW IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
7. NEW 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CONDUCTORS, SEE WIRING SCHEMATIC.
8. NEW 2" UNDERGROUND SCH40 PVC CONDUIT FOR AUDIO SYSTEM/DETECTOR LOOP CABLES.
9. NEW 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR AUDIO SYSTEM/DETECTOR LOOP CABLES.
10. INSTALL UNDERGROUND 3" SCH40 PVC CONDUIT UP INTO THE CANOPY COLUMN WITH TYPE MC CABLE (GALVANIZED STEEL WITH PVC JACKET) RUN WITHIN FOR THE 120V POWER FOR LIGHTS AND 120 VOLT POWER FOR FANS.
11. AT EXISTING BUILDINGS STUB A 3" CHASE THRU THE EXTERIOR WALL FROM THE CEILING SPACE ABOVE THE KITCHEN TO ABOVE THE CANOPY'S COLUMN FOR THE MC CABLE POWER CIRCUITS TO GO THRU THE COLUMN MOUNTED SWITCHES AND OUTLET.
12. PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE) MOUNTED ON THE COLUMN IN FLUSH MOUNTED METAL SINGLE GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FAN AND CANOPY LIGHTS. SEE WIRING SCHEMATIC AND CANOPY COLUMN DETAILS FOR FURTHER INFORMATION. ALL SURFACE MOUNTED ITEMS AND COVER PLATES TO BE FIELD PAINTED MATTE BLACK.
13. ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; UNDERGROUND, IN COLUMNS, OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) TO BE USED INSIDE THE COLUMNS, BUT MUST CONVERT BACK TO IMC ABOVE THE ROOF. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.
14. PROVIDE ONE (1) 20A/1P CIRCUIT FOR LIGHTS AND TWO (2) 20A/1P CIRCUIT FOR FANS. CONNECT TO NEXT AVAILABLE SPARE/SPACE IN LIGHTING PANEL FOR EACH. CONTRACTOR SHALL PROVIDE APPROPRIATE BREAKER SIZE AND LOAD. LIGHTING LOAD ON CIRCUIT NOT TO EXCEED 1.8 KW. FIELD VERIFY NUMBER OF SPARES/SPACES PRIOR TO BID. REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
15. PROVIDE ONE (1) #8 CU EQUIPMENT GROUND TO BE BONDED TO CANOPY STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
16. NEW CANOPY ELECTRIC HEATER.
17. TIMER SWITCH FOR OUTSIDE ELECTRIC HEATER. REFER TO 3/E1.2 FOR DETAILS AND WIRING SCHEMATIC
18. PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND THREE 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE) MOUNTED ON THE COLUMN IN FLUSH MOUNTED METAL SINGLE GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FAN AND CANOPY LIGHTS. SEE WIRING SCHEMATIC AND CANOPY COLUMN DETAILS FOR FURTHER INFORMATION. ALL SURFACE MOUNTED ITEMS AND COVER PLATES TO BE FIELD PAINTED MATTE BLACK.
19. PROVIDE ONE (1) 20A/1P CIRCUIT FOR LIGHTS AND ONE (1) 20A/1P CIRCUIT FOR FANS CONNECT TO NEXT AVAILABLE SPARE/SPACE IN LIGHTING PANEL FOR EACH. PROVIDE ONE (1) 40A/2P CIRCUIT FOR ELECTRIC HEATER CONNECT TO EXISTING PANEL C. CONTRACTOR SHALL PROVIDE APPROPRIATE BREAKER SIZE AND LOAD. LIGHTING LOAD ON CIRCUIT NOT TO EXCEED 1.8 KW. FIELD VERIFY NUMBER OF SPARES/SPACES PRIOR TO BID. REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.

NOTES: FOR ALL CONDUITS: REFER TO PLANS FOR OTHER CONDUITS. REFER TO VENDOR DRAWINGS FOR CONDUIT AND WIRING REQUIREMENTS FOR LOW VOLTAGE SYSTEMS AND CONTROL WIRING.

MULTIPLE 1PH CIRCUITS MAY OCCUPY THE SAME CONDUIT IN ACCORDANCE WITH THE NEC, MAXIMUM OF THREE AND OF DIFFERENT PHASES.

LOW VOLTAGE AND CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM BUILDING TO CANOPY.

FIELD VERIFY ALL CONDITIONS

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, AND LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

ALTERNATE FOR EXISTING CONDITIONS:

IF THE IN-GROUND PULLBOX IS NOT EXISTING OR IS NOT ACCESSIBLE OR USABLE, THEN THE CONTRACTOR MAY PROVIDE THREE 1" UNDERGROUND CONDUIT WITH CONDUCTORS FROM THE EXISTING BUILDING TO THE DESIGNATED CANOPY COLUMN. EACH CONDUIT SHALL TERMINATE AT THE COLUMNS HANDHOLE LOCATION INSIDE THE COLUMN WITH A COUPLING TO TRANSITION FROM THE PVC CONDUIT TO FLEXIBLE "LIQUID-TITE" CONDUIT AND EXTEND TO THE BACKBOXES FOR THE SWITCHES AND OUTLET.

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	SYL. LAMP NO.	WATTS	VOLTS	MOUNTING	REMARKS
L	LSI INDUSTRIES	LSI CRUS-SC-LED-LW-30-CW-UE-WHT	LED	–	74	120	CANOPY DECK	

NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).

COMPARISON LOAD SUMMARY

	QTY.		WATTS	AMPS
EXISTING LOAD BASED ON DATA RECEIVED				913.62 AMPS
-DRIVE THRU CANOPY LIGHTS	6	X	74	1.2 AMPS
-MEAL DELIVERY CANOPY LIGHTS	6	X	74	1.2 AMPS
-DRIVE THRU CANOPY FANS	6	X	264	4.4 AMPS
-MEAL DELIVERY CANOPY FANS	3	X	264	2.2 AMPS
-TOTAL LOAD	1	X	6000	9.1 AMPS
EXISTING PANEL C LOAD				103.3 AMPS
-MEAL DELIVERY HEATER	1	X	6000	16.7 AMPS
EXISTING PANEL C NEW LOAD				120.0 AMPS
EXISTING PANEL C IS FED FROM A 200A BREAKER IN MDP				
NEW CONNECTED AMPS				939.3 AMPS
EXISTING SERVICE SIZE IS 1000 AMPS BASED ON EXISTING DATA RECEIVED				

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ENG COA #2005026904

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SEAL:

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STACY TREVOR HENSON
NUMBER PE-2016036828
PROFESSIONAL ENGINEER

Stacy T Henson 2024.07.18 16:17:29-04'00'

STACY HENSON - PROFESSIONAL ENGINEER
LIC. # PE-2016036828

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
PRINTED FOR
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY RZ
CHECKED BY MI

SHEET
CANOPY POWER & LIGHTING PLAN

SHEET NUMBER
E1.1

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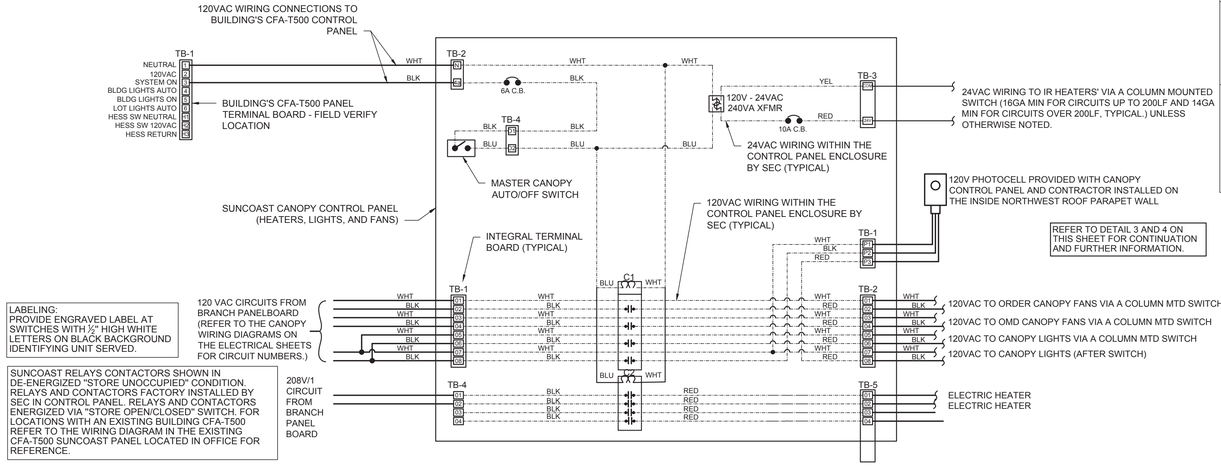


REFER TO DETAIL 3 AND 4 ON THIS SHEET FOR CONTINUATION AND FURTHER INFORMATION.

1 SUNCOAST PANEL WIRING DIAGRAM - HEATERS, LIGHTS, AND FANS
SCALE: NTS

SEQUENCE OF OPERATION

STORE SWITCH IN "STORE OPEN" POSITION	STORE SWITCH IN "STORE CLOSED" POSITION
A. INFRARED HEATERS ARE ENABLED.	A. INFRARED HEATERS ARE DISABLED.
B. COOLING FANS ARE ENABLED.	B. COOLING FANS ARE DISABLED.
C. LIGHTS ARE ENABLED.	C. LIGHTS ARE DISABLED.
D. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS PROVIDE SINGLE POINT OF ON/OFF CONTROL.	

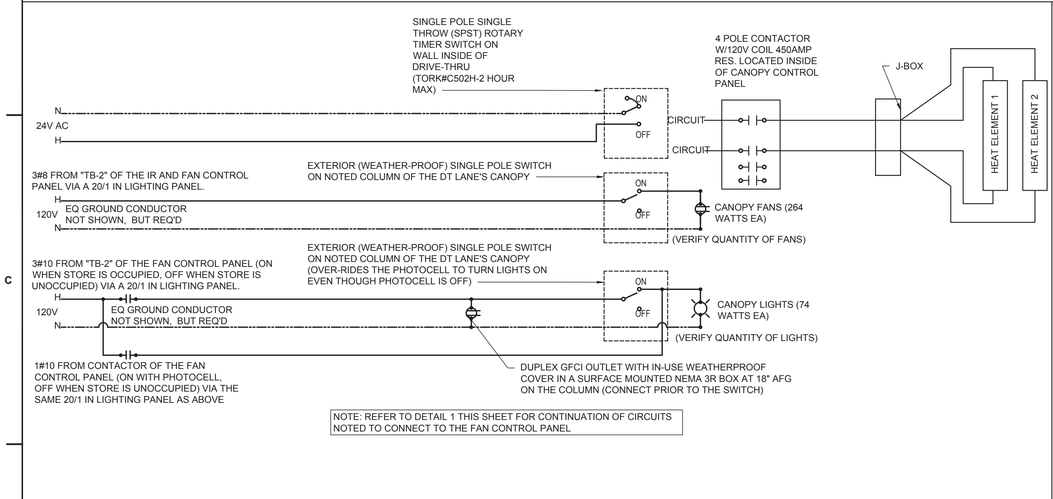
NOTES
1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS, TELE NO 727-544-6679.
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING.
3. INFORM SEC ASAP AS TO WHETHER THE PANEL IS TO BE SURFACE OR FLUSH MOUNTED.
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FAN AND IR HEATERS. MOUNT LEGEND AT PANEL.

LEGEND

SEC	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF CONTROL PANELS)
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
----------	LOW VOLTAGE BY MECHANICAL CONTRACTOR
-·-·-·-	18 GA. MIN LOW VOLTAGE WIRING BY SUNCOAST
———	120 VOLT BY ELECTRICAL CONTRACTOR
- - - - -	120 VOLT BY SUNCOAST

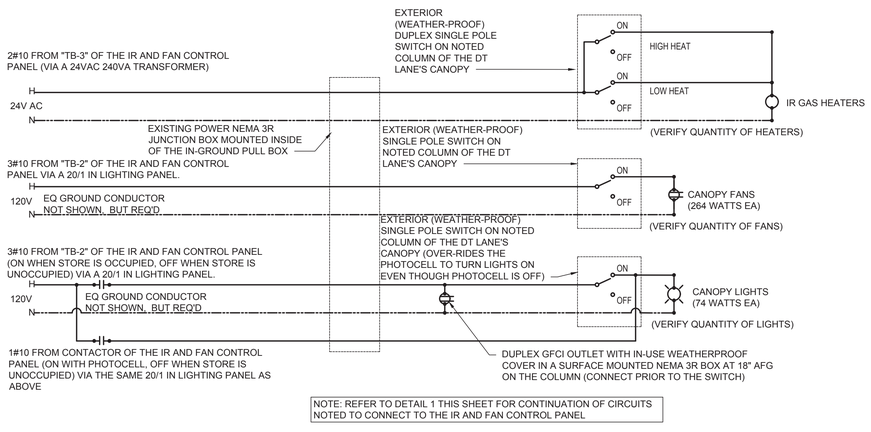
IMPORTANT:
CHANGE OUT 2 AMP CIRCUIT BREAKER IN THE EXISTING CFA-500 S.E.C. PANEL FIELD VERIFY LOCATION TO A 6 AMP CB. THE FUSE IS LOCATED IN THE UPPER HALF OF THE CFA-500 PANEL IMMEDIATELY TO THE RIGHT OF THE PHOTOCELL CONTROLLER. FAILURE TO DO SO WILL CAUSE CONTROL CIRCUIT TO BLOW FUSE.

IMPORTANT:
WHEN HEATERS ARE PROVIDED ON THE CANOPIES AND THE 240VA XFMR IS WITHIN THIS CONTROL PANEL, CHANGE OUT 2 AMP CIRCUIT BREAKER IN THE EXISTING CFA-T500 SEC BUILDING CONTROL PANEL LOCATED IN THE OFFICE TO A 6 AMP CIRCUIT BREAKER. THE BREAKER IS LOCATED IN THE UPPER HALF OF THE CFA-T500 PANEL IMMEDIATELY TO THE RIGHT OF THE PHOTOCELL CONTROLLER. FAILURE TO DO SO WILL CAUSE THE CONTROL CIRCUIT BREAKER TO TRIP.



NOTE: REFER TO DETAIL 1 THIS SHEET FOR CONTINUATION OF CIRCUITS NOTED TO CONNECT TO THE FAN CONTROL PANEL

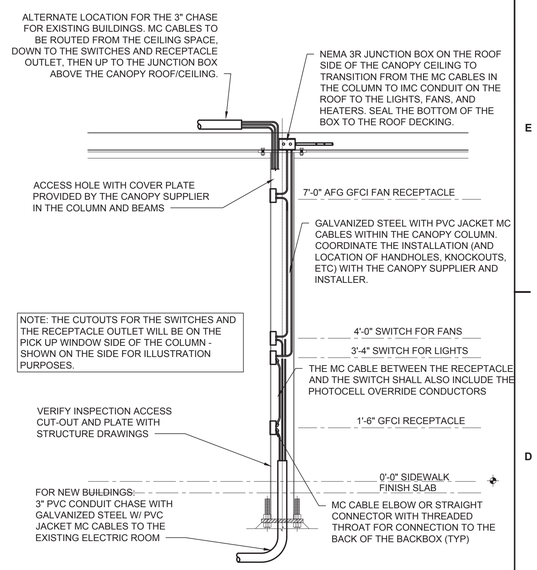
2 MEAL DELIVERY CANOPY POWER WIRING SCHEMATIC
SCALE: NTS



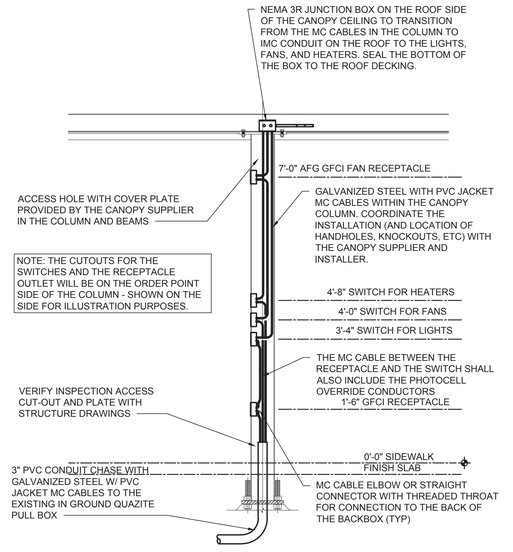
NOTE: REFER TO DETAIL 1 THIS SHEET FOR CONTINUATION OF CIRCUITS NOTED TO CONNECT TO THE IR AND FAN CONTROL PANEL

3 ORDER CANOPY POWER WIRING SCHEMATIC
SCALE: NTS

4 CANOPY COLUMN ISOMETRIC
SCALE: NTS



5 SECTION - MEAL DELIVERY CANOPY COLUMN
SCALE: NTS



6 SECTION - ORDER CANOPY COLUMN
SCALE: NTS

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DATE AUGUST 2023
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CHECKED BY MI

SHEET
CANOPY ELEC DETAILS

SHEET NUMBER
E1.2

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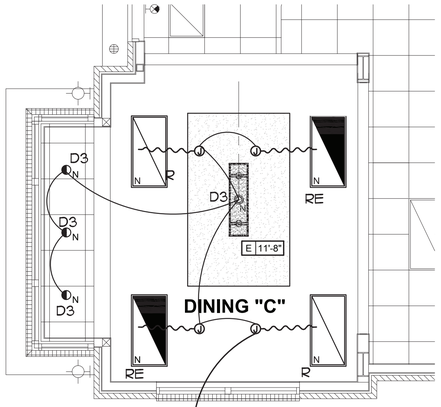

CONNECT TO EXISTING DINING LIGHTING CIRCUIT AND CONTROL

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	SYL LAMP NO.	WATTS	VOLTS	MOUNTING	REMARKS
A	LITHONIA	2GTL-472L-A12125V-EZ1-LP840	INTEGRAL WITH FIXTURE	–	52.3	120	RECESSED	2'X4' STATIC LED TROFFER RATED 7200 LUMENS, 4000K COLOR TEMP
AE	LITHONIA	2GTL-472L-A12125V-EZ1-LP840-EL14L	INTEGRAL WITH FIXTURE	–	52.3	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
R	LITHONIA	2RTL4-48L-EZ1-LP830	LED	–	48	120	RECESSED	2'X4' VOLUMETRIC RECESSED LIGHTING
RE	LITHONIA	2RTL4-48L-EZ1-EL14L-LP830	LED	–	48	120	RECESSED	SAME AS R WITH EMERGENCY BATTERY PACK
D3	LITHONIA	LDN6-30/20-L06AR-LSS-MVOLT	FURNISHED	–	22.6	120	RECESSED	

NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OF EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO SHEET E4.2, SECTION 16500 FOR VENDOR INFORMATION.
3. THE FLUORESCENT BALLAST CATALOG NUMBER INDICATES OSRAM AND ALL LAMP DESIGNATIONS ARE FOR OSRAM/SYLVANIA PER A NATIONAL ACCOUNT AGREEMENT.
4. THE ASTERIK (*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL HERITAGE PROTOTYPE.

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. SUPPORTING DEVICES AND HANGERS SHALL BE MANUFACTURED BY RACO FASTENERS, OR APPROVED EQUIVALENT.

PART 2 - EXECUTION

2.01 INSTALLATION
A. SECURE CONDUITS TO WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, CABINET, FITTING, ETC., AND AT INTERVALS NOT TO EXCEED TEN FEET (10') AND IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. IN SEISMIC ZONES, SUPPORT CONDUITS 1" AND UNDER AT 6' INTERVALS.

B. INSTALL CLAMPS SECURED TO STRUCTURE FOR FEEDER AND OTHER CONDUITS ROUTED AGAINST THE STRUCTURE. USE DROP RODS AND HANGERS OR RACKS TO SUPPORT CONDUITS RUN APART FROM THE STRUCTURE.

C. PROVIDE AND INSTALL SUITABLE ANGLE IRON, CHANNEL IRON OR STEEL METAL FRAMING WITH ACCESSORIES TO SUPPORT OR BRACE ELECTRICAL EQUIPMENT INCLUDING SAFETY SWITCHES, FIXTURES, PANELBOARDS, ETC.

D. USE OF CHAINS, PERFORATED IRON, BALING WIRE, OR TIE WIRE FOR SUPPORTING CONDUIT RUNS IS NOT PERMITTED.

E. FOR SUPPORT OF LOW VOLTAGE WIRING NOT REQUIRED TO BE IN CONDUIT, BUNDLE CABLES TOGETHER IN A NEAT MANNER USING APPROVED NYLON TIE WRAPS. BUNDLED CABLES SHALL BE SUPPORTED WITH "J" HOOKS ON TELEPHONE TYPE BRIDLE RINGS, A MINIMUM OF 6 FEET ON CENTERS. CLEARLY IDENTIFY ALL DIFFERING TYPES OF CABLES BEING RUN AND TAG WITH TAPE TAGS REGARDING TELEPHONE, POS SYSTEM, MUSIC/COMMUNICATION, SECURITY, ETC. FOR VARIOUS SYSTEM UTILIZING SAID CABLE. IDENTIFICATION TAPE SHALL BE PROVIDED AT MINIMUM INTERVALS OF 25 FEET ON CENTER AND WITHIN EACH BUILDING SPACE.

F. PROVIDE A SYSTEM OF SUPPORTING DEVICES AND HANGERS TO INSURE SECURE SUPPORT OR BRACING FOR CONDUIT, ELECTRICAL EQUIPMENT, INCLUDING SAFETY SWITCHES, FIXTURES, PANELBOARDS, OUTLET BOXES, JUNCTION BOXES, CABINETS, ETC.

SECTION C16500
LIGHTING FIXTURES (LUMINAIRES)

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS AND VENDORS

A. LIGHTING FIXTURES INDICATED ON LIGHTING FIXTURE SCHEDULE ARE TO BE PURCHASED FROM THE **NATIONAL ACCOUNT VENDOR** FOR THE REGION OF THE PROJECT (VERIFY REGION DESIGNATION WITH OWNER'S REPRESENTATIVE):

1. ACCU-SERV LIGHTING - NORTH REGION AND SOUTHEAST REGION. CONTACT AT ACCU-SERV: BOB HARPRING AT 877-707-7378, FAX - 502-961-0357, EMAIL - BHARPRING@ACCU-SERV.COM

2. VILLA LIGHTING - CENTRAL REGION, SOUTHWEST REGION, AND WEST REGION. CONTACT AT VILLA LIGHTING: DAVE CHRISTANELL AT 800-325-0963, FAX- 314-531-8720, EMAIL - DAVEC@VILLALIGHTING.COM

B. BALLASTS TO BE ELECTRONIC BALLAST PROVIDED WITH LIGHTING FIXTURE BY THE MANUFACTURER.

C. LAMPS TO BE OSRAM-SYLVANIA AND WILL TYPICALLY BE PROVIDED WITH THE LUMINAIRE BY THE LIGHTING MANUFACTURER.

1.02 FIXTURE REQUIREMENTS
A. PROVIDE REGULATING, HPF BALLASTS IN ALL HID LIGHTING FIXTURES. HID LAMP TYPES SHALL BE AS INDICATED ON THE DRAWINGS.

B. RECESSED FLUORESCENT LIGHTING FIXTURE BALLASTS SHALL BE PROVIDED WITH INTEGRAL THERMAL PROTECTION.

C. PROVIDE ENERGY-SAVING INSTANT OR RAPID START LAMPS FOR ALL FLUORESCENT FIXTURES.

D. ALL LAMPS AND BALLASTS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ENERGY POLICY ACT OF 1992 AND ANY OTHER APPLICABLE CODES OR CRITERIA.

E. ALL COMPONENTS OF RECESSED FIXTURES SHALL BE ACCESSIBLE WITHOUT DISTURBING FIXTURE IN OR ON CEILING.

F. ENERGY SAVING BALLASTS AND ENERGY SAVING LAMPS PROVIDED SHALL BE COMPATABLE FOR OPERATION TOGETHER.

G. EXTERIOR FIXTURES AND POLES SHALL BE SUITABLE FOR EXTERIOR USE, SHALL BE UL LISTED, AND SHALL BE A STANDARD DESIGN FOR EXTERIOR APPLICATION.

H. EXTERIOR POLES FOR FIXTURES WITH LUMINAIRES INSTALLED SHALL BE DESIGNED FOR MAXIMUM CONSTANT VELOCITY WIND LOAD WITH LUMINAIRES INSTALLED, APPLICABLE TO THE GEOGRAPHIC AREA.

1.03 CONTROLS
A. LIGHTING CONTACTORS SHALL BE SQUARE-D, GENERAL ELECTRIC, CUTLER-HAMMER OR SIEMENS OF TYPES AND QUANTITY SHOWN ON DRAWINGS, EXCEPT THOSE FURNISHED WITH THE SWITCHGEAR AS PART OF THE **NATIONAL ACCOUNT PROGRAM** BY SUNCOAST ENVIRONMENTAL CONTROLS (SEC).

1.04 EMERGENCY LIGHTING UNITS
A. BATTERIES SHALL SUPPLY EMERGENCY POWER FOR LIGHTING WITH MINIMUM OPERATING TIME OF 1-1/2 HOURS.

B. EMERGENCY LIGHTING SHALL BE AUTOMATICALLY OPERATIONAL UPON NORMAL UTILITY POWER FAILURE.

PART 3 - EXECUTION

3.01 INSTALLATION
A. LIGHTING FIXTURES SHALL BE STRUCTURALLY SUPPORTED. FLUORESCENT FIXTURES MOUNTED IN SUSPENDED CEILINGS SHALL BE SUPPORTED BY AND ATTACHED TO CEILING SYSTEM AS REQUIRED BY NEC ARTICLE 410. IN ADDITION, FLUORESCENT TROFFERS SHALL BE SUPPORTED AT TWO OPPOSITE CORNERS TO BUILDING STRUCTURE.

B. RECESSED FIXTURES IN DROPPED CEILING AREAS SHALL BE CONNECTED TO POWER SOURCE USING FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL CONTAIN A SEPARATE INSULATED GREEN NO. 12 COPPER GROUND WIRE. FLEXIBLE CONDUIT SHALL BE CONNECTED TO JUNCTION BOX AND FIXTURE. GREEN GROUND WIRE SHALL PROVIDE GROUND CONTINUITY BETWEEN CONDUIT SYSTEM AND FIXTURE. GROUNDING CONDUCTORS SHALL BE PERMANENTLY AND MECHANICALLY CONNECTED BETWEEN FIXTURE AND CONDUIT SYSTEM SO AS TO BE ELECTRICALLY CONTINUOUS.

C. FIXTURES SURFACE MOUNTED ON EXPOSED TEE BAR CEILINGS SHALL USE GRIP CLAMPS ON TEE BARS TO SUPPORT FIXTURES.

D. WIRE SHALL BE CONTINUOUS FROM SPLICE IN OUTLET BOX OF BUILDING WIRING SYSTEM TO LAMP SOCKET OR BALLAST TERMINALS.

E. MAINTAIN THE INTEGRITY OF ENCLOSURES ON ENCLOSED AND GASKETED FIXTURES. MINIMIZE THE NUMBER OF ENCLOSURE PENETRATIONS AND MAKE SUCH PENETRATIONS WATER AND DUST TIGHT WITH APPROPRIATE GASKETS AND FITTINGS.

F. CONCRETE BASES SHALL BE PROVIDED FOR ALL EXTERIOR GROUND MOUNTED OR POLE MOUNTED FIXTURES.

G. INSTALL ACCESSORIES FURNISHED WITH EACH FIXTURE.

H. WIRING FROM POLE BASES TO POLE MOUNTED LUMINAIRE SHALL BE NO. 12 WITH FUSE PROTECTION PROVIDED BY A 30 AMP, 600 VOLT WATERPROOF FUSEHOLDER WITH BUSSMAN 'LIMITRON' FUSE OF AMPERE RATING 3 TIMES THE LOAD CURRENT.

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30349-2998

INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010036828
PROFESSIONAL ENGINEER

Stacy T Henson 2024.07.18 16:17:31-04'00'

STACY HENSON - PROFESSIONAL ENGINEER
LIC. # PE-2010036828

CHICK-FIL-A
SUMMIT FAIR
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY MI
CHECKED BY SN

SHEET
ELECTRICAL LIGHTING PLAN

SHEET NUMBER
E2.1

1
MARIBR - 07/18/2024 2:25:33 PM

Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: _____

Scottsdale® Legacy (CRUS)

LED Canopy Luminaire

IP66

OVERVIEW	
Lumen Package	5,000 - 22,000
Wattage Range	39 - 152
Efficacy Range (LPW)	114 -156
Weight lbs(kg)	23 (10.4)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- Features a ultra-slim 11/16" profile die-cast housing, with flat clear tempered glass lens. Unit is water-resistant, sealed and IP66 rated. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.
- Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.
- Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

Optical System

- Features an array of select, mid-power, high brightness, high efficiency LED, 3000K, 4000K, 5000K color temperature, 80 CRI (nominal).
- Choice of Symmetric or Asymmetric distribution. Asymmetric provides a wider distribution pattern.
- Six Lumen Packages: 5,000, 9,000, 10,000, 13,000, 18,000 and 22,000 Lumens.

Electrical

- High performance factory programmable driver features over-voltage, under voltage, short-circuit and over temperature protection with integral 6kV surge protection that meets IEEE C62.41.2 and ANSI C82.77-5 Location Category C Low standards. Custom lumen and wattage packages available.
- Additional field replaceable 10kV surge protection device that meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2) is standard.
- Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.
- Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and acts as the primary heatsink ensuring cool operation of internal components for longer life. Seals to optical housing via one-piece molded silicone gasket.
- Universal voltage power supply, 120-277 VAC, 50/60 HZ and 347-480 VAC, 50/60 HZ input.
- -40°C to 55°C (-40°F to 131°F) ambient operating temperature. (Varies based on lumen package and mounting style see performance data for specifics.)
- Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location (see performance data for specifics.)

Hazardous Location

- Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions. See lsicorp.com for specific guidance. Not available on SLW.

Installation

- One-person installation.
- Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit.
- Retro panels are available for existing Encores as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

Warranty

- LSI LED fixtures carry a 5-year warranty (contact your LSI representative for extended warranty options.)

Listings

- UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Meets Buy American Act requirements.
- IDA compliant with 3000K or lower color temperature.

NEW CANOPY FIXTURE L

Type: _____

Scottsdale® Legacy LED Canopy Luminaire (CRUS)

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: **CRUS SC LED SS 50 UE WHT**

Prefix	Distribution	Light Source	Drive Current	Color Temp	Input Voltage	Finish	Options
CRUS - LED Canopy Luminaire	**SC** - Symmetric **AC** - Asymmetric	**LED**	**SLW** - Super Low Watt **VLW** - Very Low Watt **LW** - Low Watt **SS** - SuperSaver **MD** - High Output **VHO** - Very High Output **Custom Lumen Package***	**50** - 5,000K **40** - 4,000K **30** - 3,000K	**UE** - Universal Voltage (120 - 277V) **HV** - High Voltage 347 - 480V	**WHT** - White **BRZ** - Bronze **BLK** - Black	**HL*** - Hazardous Location

FOOTNOTES:
1. AC distribution utilizes a reflector which alters the look from a standard SC distribution.
2. - Not available on SLW.
3. Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not UL listed.

Accessory Ordering Information (Accessories are field installed)

Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRUS, for 15" Deck Panel	333946
Retrofit Panels - ECTA / SCF to CRUS, for 12" Deck Panel	333931
Retrofit 2x2 Cover Panel Blank (no holes)	357781

Description	Order Number
Retrofit RC Cover Panel Blank (no holes)	3547121
Kit - Hole Plugs and Silicone (enough for 25 retrofits)*	1320540

1 - Consists of (25) 7/8" hole plugs, (100) 5/16" hole plugs and (1) tube of RTV

PERFORMANCE

Back to Quick Links

DELIVERED LUMENS

Lumen Package	Distribution	3000K CCT			4000K CCT			5000K CCT			Wattage
		Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
VHO	SC	21351	140	B4-U0-G2	21630	142	B4-U0-G2	22067	152	B4-U0-G2	152
	AC	17393	114	B3-U0-G2	17798	117	B3-U0-G2	18002	122	B3-U0-G2	
HO	SC	17389	143	B3-U0-G1	18046	148	B3-U0-G2	18011	152	B4-U0-G2	135
	AC	14582	116	B3-U0-G2	14806	119	B3-U0-G2	15046	124	B3-U0-G2	
SS	SC	13313	141	B3-U0-G1	13648	144	B3-U0-G1	13880	150	B3-U0-G1	93
	AC	11468	133	B3-U0-G2	11701	136	B3-U0-G2	12026	131	B3-U0-G2	
LW	SC	10457	144	B3-U0-G1	10724	148	B3-U0-G1	11148	154	B3-U0-G1	73
	AC	9145	126	B3-U0-G2	9379	129	B3-U0-G2	9749	134	B3-U0-G2	
VLW	SC	8783	146	B3-U0-G1	9008	149	B3-U0-G1	9364	155	B3-U0-G1	60
	AC	7681	127	B3-U0-G1	7878	131	B3-U0-G1	8188	136	B3-U0-G1	
SLW	SL	3695	146	B1-U0-G1	3178	150	B1-U0-G1	3854	152	B1-U0-G1	38
	AC	4884	128	B1-U0-G1	5008	131	B1-U0-G1	5357	136	B1-U0-G1	

*LEDs are frequently updated therefore values are nominal.

ELECTRICAL DATA (AMPS)

Lumen Package	Wattage	120V	208V	240V	277V	347V	480V
VHO	152	1.27	0.73	0.64	0.55	0.44	0.32
HO	124	1.03	0.6	0.52	0.45	0.36	0.26
SS	82	0.77	0.44	0.38	0.33	0.27	0.19
LW	72	0.6	0.35	0.3	0.26	0.21	0.15
VLW	60	0.5	0.29	0.25	0.22	0.17	0.13
SLW	38	0.32	0.18	0.16	0.14	0.11	0.08

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

OPERATING TEMPERATURE

LUMEN PACKAGE	MOUNTING	Max
VHO	Wet/Wet Canopy	40 C
HO	Wet/Wet Canopy	45 C
SS	Wet/Wet Canopy	55 C

Recommended Lumen Maintenance* CRUS VHO

Ambient Temp C	Initial *	25k hr *	50k hr *	75k hr *	100k hr *
0 C	102%	97%	92%	88%	84%
10 C	100%	97%	92%	88%	84%
25 C	100%	97%	92%	88%	84%
35 C	100%	97%	92%	88%	84%
40 C	100%	97%	92%	88%	84%
45 C	101%	96%	90%	84%	80%
50 C	101%	94%	89%	83%	78%

Recommended Lumen Maintenance* CRUS SS

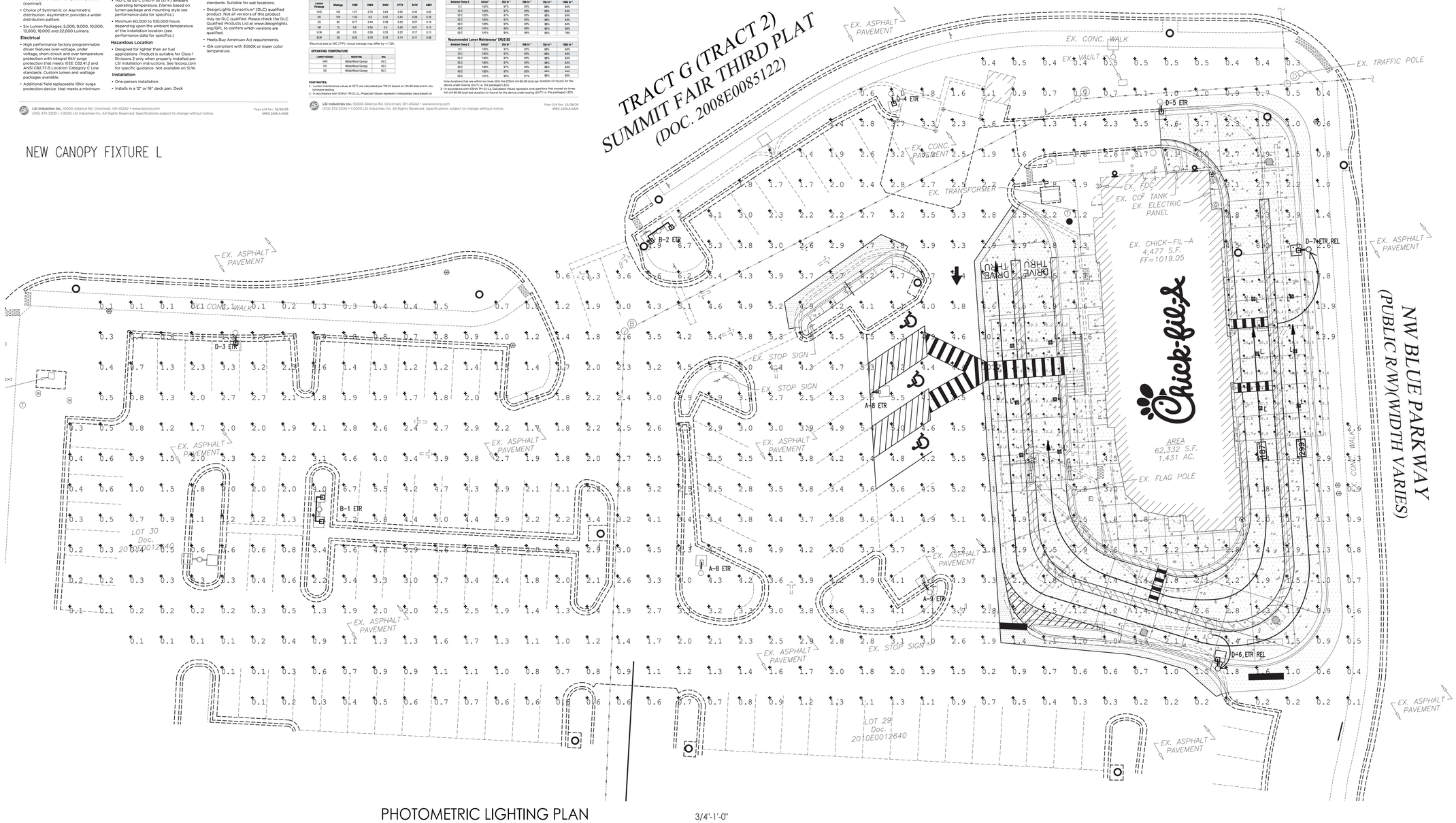
Ambient Temp C	Initial *	25k hr *	50k hr *	75k hr *	100k hr *
0 C	102%	97%	92%	88%	84%
10 C	100%	97%	92%	88%	84%
25 C	100%	97%	92%	88%	84%
35 C	100%	97%	92%	88%	84%
40 C	100%	97%	92%	88%	84%
45 C	101%	95%	91%	86%	82%
50 C	101%	93%	91%	86%	82%

FOOTNOTES:
1 - Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated values based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (OUT) i.e. the packaged LED.
3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing (OUT) i.e. the packaged LED.

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Mounting Height
	2	B - ETR	Twin	KSF2 400M R4SC	0.720	16358	28
	3	A - ETR	Single	KSF2 400M R4W	0.720	30168	28
	5	D - ETR/REL	SINGLE	KSF2 400M R4SC	0.720	16358	28
	12	L	SINGLE	CRUS-SC-LW-30	0.900	10457	9.5

ETR/REL=EXISTING TO REMAIN / RELOCATED

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Meal Delivery Canopy	Illuminance	Fc	27.64	45.9	8.1	3.41	5.67
Order Canopy 1	Illuminance	Fc	28.84	43.6	12.8	2.25	3.41
Site	Illuminance	Fc	2.44	13.9	0.1	24.40	139.00



PHOTOMETRIC LIGHTING PLAN

3/4"-1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010036836
PROFESSIONAL ENGINEER

Stacy T Henson 2024.07.18 16:17:33-04'00'

STACY HENSON - PROFESSIONAL ENGINEER
LIC. # PE-2010036828

CHICK-FIL-A
SUMMIT FAIR

690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08N-104-R, V6
RELEASE: -
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2023.0467
DATE AUGUST 2023
DRAWN BY BM
CHECKED BY SN

SHEET
PHOTOMETRIC LIGHTING PLAN

SHEET NUMBER
ES1.0

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FLOOR PLAN KEY	ELEVATION TAG	DECOR TAG
	1	1

WALL KEY	DIVIDER WALL by CHI	LOW WALL by G.C.	FULL HT. WALL by G.C.	DEMO WALLS KNEEWALL / MISC. by G.C.	EXISTING WALL to REMAIN / MULTI-USE

PROPOSED

SEATING & TABLE SCHEDULE		SINGLES	2 TOPS	3 TOPS	4 TOPS	5 TOPS	6 TOPS	7 TOPS	8 TOPS	10 TOPS	TOTALS
	TABLE TOP STYLES										
	TABLE TOP QUANTITY	13	6	-	15	-	1	-	-	-	35
	SEAT QUANTITY	13	12	-	60	-	8	-	-	-	93
ACCESSIBLE TABLE RATIO: 5		SEATING TO TABLE RATIO: 2.6									

STEEL KEY	CORE-DRILLED STEEL SYMBOLS	GENERIC	12" X 12" PLATE	12" X 12" PLATE (OFFSET)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS	BOLT-DOWN STEEL SYMBOLS	GENERIC	12" X 12" PLATE (ROUND)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS	FREESTANDING STEEL SYMBOLS	X-BASE	BI-POD
		TAPERED							TAPERED							

NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT SPECIFICATIONS FOR PRODUCT DESCRIPTIONS DETAILED IN PLAN.

NOTE: REFER TO FURNITURE FLOOR PLAN FOR LAYOUT.	NEW	RELOCATED	EXISTING
PRODUCT KEY			NO HATCH USED

BUILDING SHELL USED FOR FURNITURE PLANS PROVIDED BY SITE ADAPT ARCHITECT.

VERIFY DINING ROOM DIMENSIONS FOR FURNITURE & MESSAGING.

SEATING LAYOUT PROVIDED BY ARCHITECT. ARCHITECT IS RESPONSIBLE FOR SEATING PLAN MEETING CODE REQUIREMENTS (LOCAL OR OTHER).

NOTE: CONDIMENTS AND TRASH ARE NOTED FOR SPACE PLANNING PURPOSES ONLY. EXACT MODELS AND DETAILS ON THOSE ITEMS TO BE DETERMINED BY THE MILLWORK PROVIDER, CLAYTON FIXTURES (CFX).

Project Contacts

PLEASE CONTACT ONE OF THE FOLLOWING CHI TEAM MEMBERS TO ADDRESS CONCERNS YOU MAY HAVE:

CHARTER HOUSE HOLDINGS, LLC
Phone: 616.399.6000

***Regional Sales Manager:** Julia Woodward*
Phone: 404.784.2960 | Email: cfa@charter-house.com

Project Management Team:
Allison Marsh Phone: 616.796.1159
Jami Fraser Phone: 616.796.1178

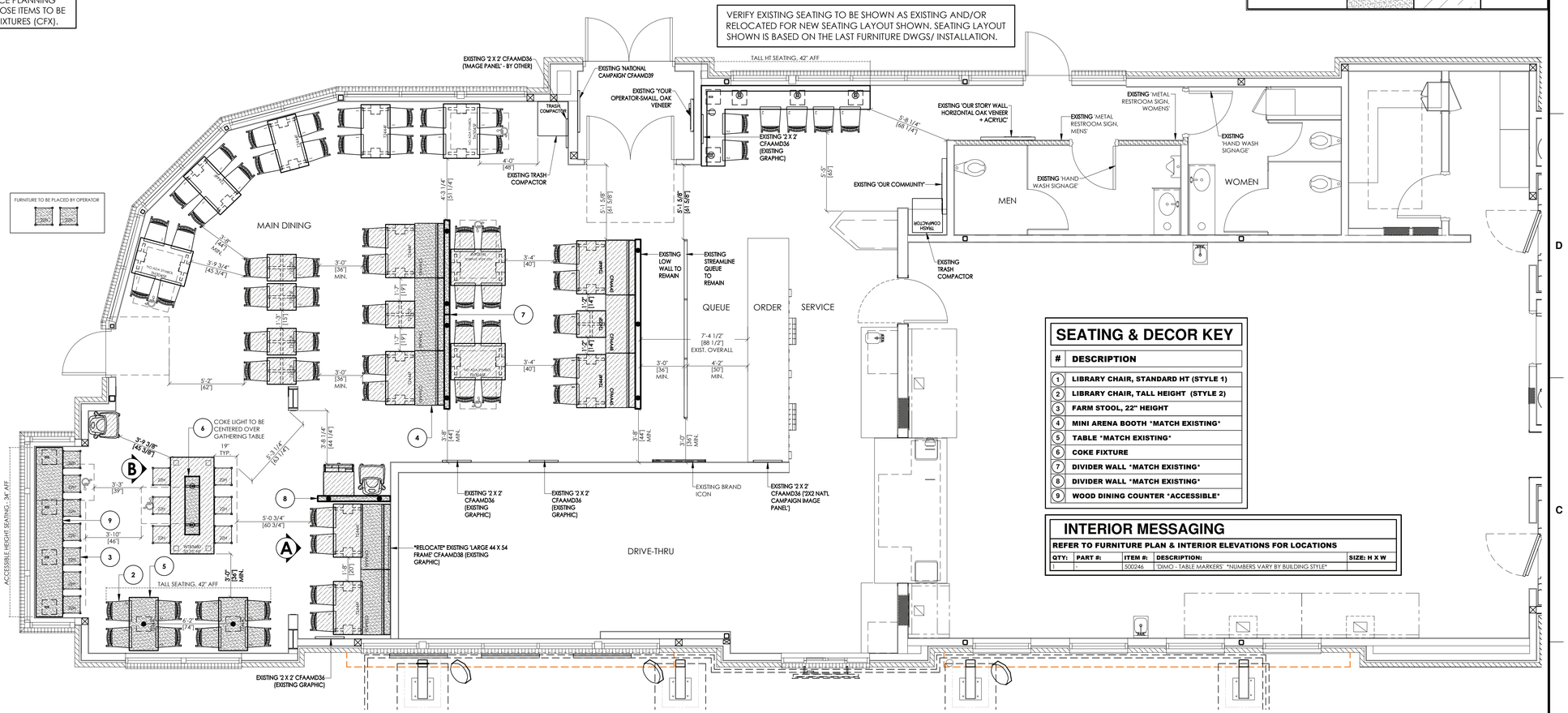
Customer Service Inquiries:
Phone: 616.796.1020

CHI Project Log

DATE	#	DESCRIPTION	INITIALS
02.09.24		LAYOUT - PLAY CONV.	RK
02.19.24	2	BASE UPDATE	--
03.05.24	3	PERMIT SET	RK
03.15.24	4	OP REDLINES	BS
03.21.24	5	BID SET	MM
04.04.24	6	CONSTRUCTION SET	EB
04.29.24	7	UPDATE EXISTING FURNITURE	JS

PROJECT:	Chick-fil-A	STORE #:	02859
		BLDG. SHELL:	S08N-SM-R PLAY CONV.
LOCATION:	LEES SUMMIT, MO.		
ADDRESS:	690 NW BLUE PARKWAY		
NICKNAME:	LEES SUMMIT FSU		
DESIGN:	RK	FDD SET: ---	FDD CHECK: AM
PROJECT MGR:	ALLISON MARSH		
SALES MGR:	JULIA WOODWARD		
SET ISSUED DATE:	29 APRIL 2024		
DRAWING TITLE:	FLOOR PLAN		
STORE NUMBER:	02859	SCALE:	1/4" = 1'-0"

VERIFY EXISTING SEATING TO BE SHOWN AS EXISTING AND/OR RELOCATED FOR NEW SEATING LAYOUT SHOWN. SEATING LAYOUT SHOWN IS BASED ON THE LAST FURNITURE DWGS/ INSTALLATION.



SEATING & DECOR KEY

#	DESCRIPTION
1	LIBRARY CHAIR, STANDARD HT (STYLE 1)
2	LIBRARY CHAIR, TALL HEIGHT (STYLE 2)
3	FARM STOOL, 22" HEIGHT
4	MINI ARENA BOOTH *MATCH EXISTING*
5	TABLE *MATCH EXISTING*
6	COKE FIXTURE
7	DIVIDER WALL *MATCH EXISTING*
8	DIVIDER WALL *MATCH EXISTING*
9	WOOD DINING COUNTER *ACCESSIBLE*

INTERIOR MESSAGING

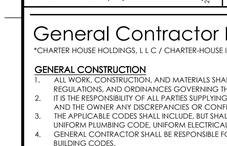
REFER TO FURNITURE PLAN & INTERIOR ELEVATIONS FOR LOCATIONS

QTY:	PART #:	ITEM #:	DESCRIPTION:	SIZE: H X W
1	-	500246	DIMO - TABLE MARKERS' *NUMBERS VARY BY BUILDING STYLE*	

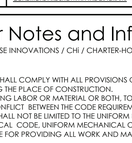
ACCESSIBILITY KEY

THESE PLANS, AS DRAWN, COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS OR RULES OF ANY LOCAL, COUNTY, STATE, FEDERAL AND OTHER GOVERNMENTAL AUTHORITY AND ANY BUREAU OR DEPARTMENT THERE OF, WHICH MAY BE APPLICABLE INCLUDING, BUT NOT LIMITED TO THE AMERICANS WITH DISABILITIES ACT AND THE REGULATIONS THERE UNDER.

ADA COMPLIANT CLEARANCES AT TABLES (N.T.S.)



MANEUVERING CLEARANCES AT DOORS (N.T.S.)



IMPORTANT NOTE: NOT ALL DOOR CLEARANCE CONDITIONS ARE SHOWN IN THIS DIAGRAM.

General Contractor Notes and Information

*CHARTER HOUSE HOLDINGS, L L C / CHARTER-HOUSE INNOVATIONS / CHI / CHARTER-HOUSE

GENERAL CONSTRUCTION

1. ALL WORK, CONSTRUCTION, AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE UNIFORM BUILDING CODE AND WITH OTHER RULES, REGULATIONS, AND ORDINANCES GOVERNING THE PLACE OF CONSTRUCTION.
2. IT IS THE RESPONSIBILITY OF ALL PARTIES SUPPLYING LABOR OR MATERIAL OR BOTH, TO BRING TO THE ATTENTION OF THE PROJECT MANAGER AND THE OWNER ANY DISCREPANCIES OR CONFLICT BETWEEN THE CODE REQUIREMENTS AND THESE PLANS.
3. THE APPLICABLE CODES SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO THE UNIFORM BUILDING CODE, BOCA NATIONAL BUILDING CODE, UNIFORM PLUMBING CODE, UNIFORM ELECTRICAL CODE, UNIFORM MECHANICAL CODE, AND THE UNIFORM FIRE CODE.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL LOCAL AND / OR CITY BUILDING CODES.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL AMERICANS WITH DISABILITIES ACT GUIDELINES, TO INCLUDE BUT NOT LIMITED TO TABLE TOP/BASE INSTALLATIONS, AISLE WAY CLEARANCES, AND QUEUE LINE AREA CLEARANCES.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING PERMITS.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COPYING AND DISTRIBUTING CHARTER-HOUSE PLANS AND DOCUMENTS TO ALL SUBCONTRACTORS INVOLVED

DELIVERY OF PRODUCT

1. DAMAGED PRODUCT UPON RECEIPT MUST BE DOCUMENTED ON THE BILL OF LADING. MUST CONTACT PROJECT MANAGER IMMEDIATELY (616) 399.6000 - FAILURE TO DOCUMENT DAMAGE AND CONTACT CHI WILL ABSOLVE CHI FROM RESPONSIBILITY.
2. INSPECT THE EXTERIOR OF ALL PACKAGING AND VERIFY BILL OF LADING. * CHECK FOR TEARS, CRUSHING, HOLES, ETC..... * COMPARE SHRINK-WRAP OR TAPE AND WATCH FOR MULTIPLE KINDS OF WRAP OR DIFFERENT TAPE ON BOXES * LISTEN FOR RATTLING OR LOOSE PARTS DURING UNLOADING * WATCH FOR POSSIBLE WEIGHT DISCREPANCIES DURING UNLOADING.
3. IF YOU NOTICE ANY OF THE ABOVE, ASK FOR A JOINT INSPECTION AND SPECIFY NOTATIONS ON THE CARRIER'S RECEIPT. IF THE DELIVERING PARTY REFUSES, INSIST ON A NOTATION OF WHAT YOU HAVE NOTICED AND CALL THE CARRIER IMMEDIATELY UPON COMPLETING YOUR INSPECTION.
4. ALWAYS KEEP GOOD NOTES OF DATES, TIMES, AND PERSONS SPOKEN TO.
5. CONCEALED DAMAGE: * IF THE CARRIER'S RECEIPT HAS BEEN SIGNED OFF, AND DAMAGE IS NOTICED INSIDE OF PACKAGING, CALL THE CARRIER AND REQUEST INSPECTION IMMEDIATELY. ALSO NOTIFY YOUR CHI PROJECT MANAGER OR SHIPPING DEPT WITHIN 48 HOURS.
6. ANY OTHER CONCERNS OR QUESTIONS PLEASE CALL YOUR PROJECT MANAGER.
7. GENERAL CONTRACTOR AND/OR OWNER ARE RESPONSIBLE FOR PROTECTION OF PRODUCT WHILE IN THE PROCESS OF BEING INSTALLED, ANY PRODUCT DELIVERED IN GOOD CONDITION, BUT DAMAGED ON SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR OWNER.

NEW AND REMODEL PROJECTS

1. THESE PLANS ARE THE PROPERTY OF CHARTER HOUSE HOLDINGS, LLC. THESE PLANS MAY NOT BE REPRODUCED OR IMPLEMENTED IN ANY WAY, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF CHI. UNAUTHORIZED USE WILL RESULT IN PAYMENT DUE FOR SERVICES RENDERED.
2. CHI REQUESTS VERIFICATION OF FIELD DIMENSIONS FROM THE GENERAL CONTRACTOR FOR THE FABRICATION OF COMMERCIAL FURNITURE, DÉCOR, CORE DRILL, AND SPACE PLANS. WHEN FIELD DIMENSIONS CAN NOT BE ATTAINED, LATE SHIPMENTS MAY RESULT.
3. IF SPECIFIED ITEMS ARE NOT AVAILABLE, CONTACT YOUR PROJECT MANAGER AT CHI.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY CHI OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
5. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF 40 LBS OF FLOOR TILE GROUT TO FINISH THE CORE DRILLED HOLES.
6. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSAL OF ALL PACKAGING MATERIAL FROM SEATING AND DECOR PRODUCTS.
7. G.C. TO POSITION THERMOSTAT / VOLUME CONTROL / AND OTHER LIKE ITEMS TO NOT INTERFERE WITH THE CHI DÉCOR.

REMODEL PROJECTS ONLY

1. IN CASES OF REMODELING; THE EXISTING SEATING, STEEL, DECOR, AND WALL FINISHES ARE TO BE REMOVED BY THE OWNER AND / OR GENERAL CONTRACTOR. IT IS NOT THE RESPONSIBILITY OF CHI.
2. FLOOR/ BASE TILE MUST BE IN GOOD REPAIR BEFORE ANY CORE DRILLING BEGINS.
3. ALL DIMENSIONS ARE FROM EXISTING FINISHES. PLEASE MAKE APPROPRIATE ALLOWANCES FOR ANY NEW FINISHES.
4. PLEASE CONTACT CHI CONCERNING ANY CONFLICTS BETWEEN CHI DECOR AND ELECTRICAL OR HVAC PLACEMENT.

FLOORING NOTES

1. A MINIMUM 5" CONCRETE SLAB IS REQUIRED FOR ALL CORE DRILLING.
2. ALL FLOOR AND COVE BASE TILE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
3. NEW FLOOR AND BASE TILE TO BE INSTALLED AND GROUTED 48 HOURS PRIOR TO CHI PRODUCT INSTALLATION. IF DAMAGE OCCURS DUE TO INSUFFICIENT CURING TIME, REPAIRS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
4. CHI IS NOT LIABLE FOR CORED STEEL THAT BECOMES UNSTABLE AS A RESULT OF DRILLING THROUGH A CONCRETE SLAB LESS THAN 5" THICK.
5. CHI IS NOT RESPONSIBLE FOR DAMAGE OF ANY MECHANICAL LOCATED WITHIN 5' OF THE FINISHED FLOOR.
6. COVE BASE / BULLNOSE TILE ON ALL CHI DIVIDER WALLS TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR.

ELECTRICAL, HVAC, AND CEILING NOTES

1. G.C. TO SUPPLY AND CONNECT ELECTRICAL PIGTAIL AT ALL CODED LOCATIONS FOR CHI PRODUCT.
2. ALL ELECTRICAL FIXTURES, WIRING, AND INSTALLATIONS TO BE UL APPROVED.
3. LIGHTING FIXTURES AND/OR HVAC MAY NEED TO BE RELOCATED BY G.C. TO ACCOMMODATE DÉCOR AND ELECTRICAL OR HVAC PLACEMENT. PLEASE CONTACT YOUR CHI PROJECT MANAGER CONCERNING ANY CONFLICTS BETWEEN PLACEMENT OF CHI DÉCOR ELEMENTS.
4. GENERAL CONTRACTOR TO CONTACT CONSTRUCTION ENGINEER TO VERIFY FINAL PLACEMENT OF HVAC.

IMPORTANT NOTES:

1. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALE IN ALL CASES.
2. THE GENERAL CONTRACTOR MUST VERIFY ALL BUILDING DIMENSIONS, EQUIPMENT, FURNITURE PLACEMENT, UTILITY LOCATIONS, AND CONDITIONS AT THE JOB SITE.
3. THE GENERAL CONTRACTOR MUST NOTIFY CHI OF ALL DISCREPANCIES AND/OR REQUIRED ADJUSTMENTS PRIOR TO STARTING WORK.
4. **NOT SCALE OFF PLANS.** CALL YOUR CHI PROJECT MANAGER TO VERIFY ANY QUESTIONABLE DIMENSIONS (616) 399.6000
5. ALL DIMENSIONS ARE FOR DESIGN INTENT ONLY.
6. CHARTER-HOUSE HAS PREPARED THESE DOCUMENTS AS ACCURATELY AS POSSIBLE WITH THE ARCHITECTURAL INFORMATION PROVIDED. DUE TO LACK OF ACCURATE AND COMPLETE DIMENSIONED ARCHITECTURAL PLANS, OWNER UNDERSTANDS THAT ADJUSTMENTS TO THE FINAL LOCATIONS OF EQUIPMENT AND/OR FURNITURE PLACEMENT MAY BE REQUIRED AT THE OWNER'S EXPENSE DUE TO DISCREPANCIES BASED ON ACTUAL JOB SITE DIMENSIONS AND CONDITIONS.
7. REFER TO ARCHITECTURAL OR ENGINEER DRAWINGS FOR COMPLETE AND ACCURATE DIMENSIONS OF BUILDING STRUCTURE.
8. THESE ARE CONTRACT DOCUMENTS AND THE INFORMATION THEY CONTAIN ARE THE PROPERTY OF CHARTER-HOUSE.
9. ALL CONTRACT DOCUMENTS MAY NOT BE COPIED, REPRODUCED, USED OR IMPLEMENTED IN ANY WAY, IN PART OR IN WHOLE, WITHOUT THE EXPRESS WRITTEN CONSENT OF CHARTER-HOUSE.
10. ANY UNAUTHORIZED USE OF THESE PLANS WILL RESULT IN PAYMENT DUE FOR SERVICES RENDERED BY CHARTER-HOUSE.
11. ANY DEVIATIONS FROM THESE DRAWINGS FOR ANY REASON SHALL NOT BE DONE WITHOUT CONSENT OF CHARTER-HOUSE IN ADVANCE, IN WRITING. CHARTER-HOUSE IS NOT RESPONSIBLE FOR DEVIATIONS, CHANGES, ADDITIONS, OR DELETIONS NOT REVIEWED AND APPROVED IN ADVANCE BY CHARTER-HOUSE.

SITE CONDITIONS FOR CHI DÉCOR INSTALLATION

1. IT IS IMPORTANT FOR THE FOLLOWING WORK TO BE COMPLETE PRIOR TO THE ARRIVAL OF CHI PRODUCT AND / OR INSTALL CREWS. THESE CONDITIONS ARE ESTABLISHED TO INSURE THAT PRODUCT IS INSTALLED MOST EFFICIENTLY (WITHOUT DAMAGE TO PRODUCT) AND UNDER SAFE CONDITIONS.
2. ALL INTERIOR WALL FINISHES TO BE COMPLETE, INCLUDING (BUT NOT LIMITED TO): WALLCOVERING, WAINSCOTING, PAINT AND CHAIR RAIL.
3. FLOOR AND BASE TILE TO BE TILED AND GROUTED FOR A MINIMUM OF 48 HOURS PRIOR TO ARRIVAL.
4. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF 40 POUNDS FLOOR TILE GROUT TO FINISH THE CORE DRILLED HOLES.
5. ALL HVAC WORK TO BE COMPLETE.
6. CEILING TRACK AND TILE TO BE INSTALLED.
7. ALL WINDOWS TO BE INSTALLED IN BUILDING.
8. ELECTRICAL SERVICE TO 110V / 30 AMP CIRCUITS FOR CORE DRILLING.
9. POTABLE WATER SUPPLY.
10. OPERATING LIGHTS (ADEQUATE FOR EVENING WORK).
11. CLEAN AND OPEN WORK AREA IN DINING ROOM.
12. WASTE DUMPSTER ON SITE.
13. FINISHED PARKING LOT OR SUBSURFACE WITH 1" OF FINISHED GRADE.
14. UNENCUMBERED AND CONTINUOUS ACCESS TO THE BUILDING.
15. GENERAL CONTRACTOR RESPONSIBLE FOR TEMPORARY POWER IF ELECTRICAL SERVICE IS UNAVAILABLE.

Project Contents

- **F-201 FURNITURE FLOOR PLAN** | Furniture and Decor Locations
- **F-211 CORE DRILL PLAN** | Steel Locations & Details (Final plans ONLY)
- **F-701 DECOR ELEVATIONS** | Typical Locations (as applicable)
  PRODUCT DETAILS | Seating & Decor Details

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349

CHI
CHARTER HOUSE HOLDINGS, LLC
200 N. Franklin Street
Zeeland, MI 49464
Phone: 616.399.6000 Fax: 616.796.1199
www.gotochi.com

ISSUED FOR CONSTRUCTION

CHICK-FIL-A LEES SUMMIT

690 NW BLUE PARKWAY
SUMMIT, MO. 64086

FSR#02859

BUILDING TYPE / SIZE: S08N - SML-R
RELEASE: PLAY CONV.

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/19/24	PLAY AREA REMOVAL
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DATE 02/09/2024
DRAWN BY RK

SHEET
FURNITURE FLOOR PLAN

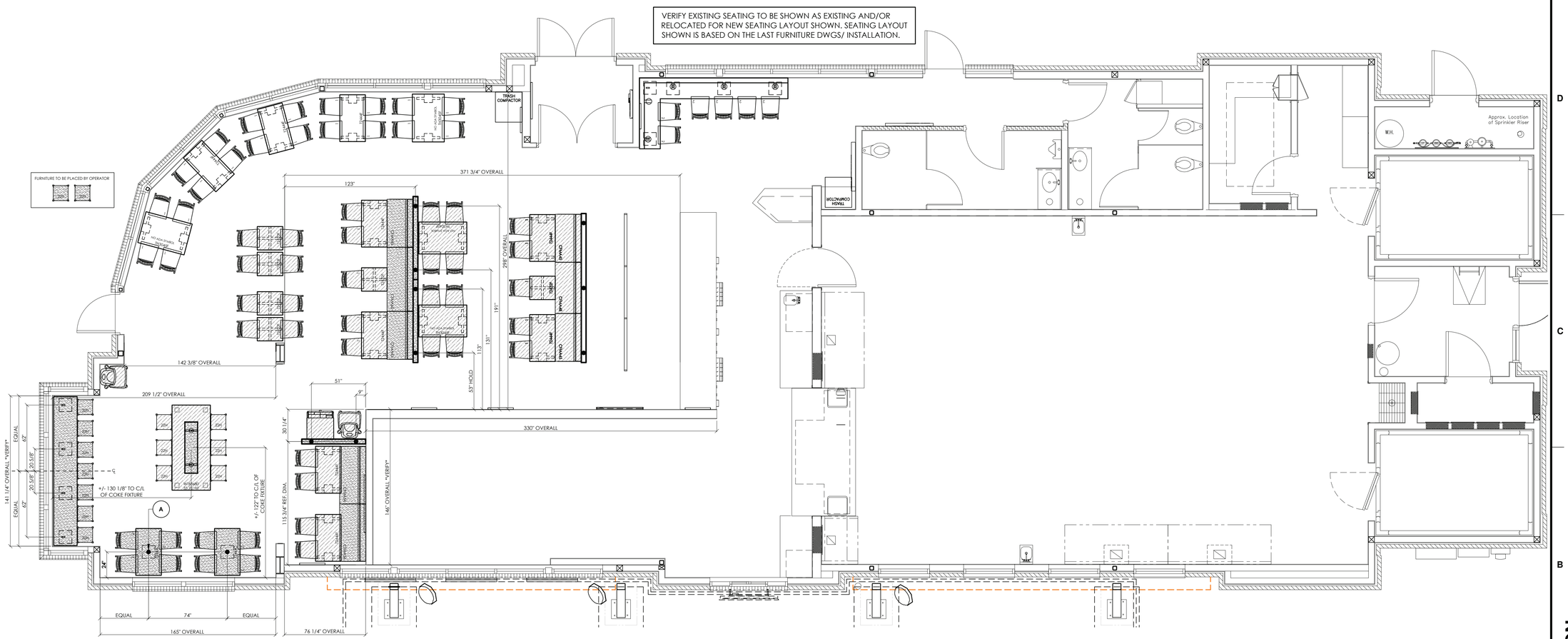
SHEET NUMBER
F-201

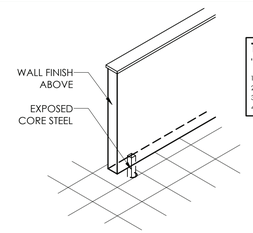
STEEL KEY	CORE-DRILLED STEEL SYMBOLS	GENERIC	12" X 12" PLATE	12" X 12" PLATE (OFFSET)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS	BOLT-DOWN STEEL SYMBOLS	GENERIC	12" X 12" PLATE (ROUND)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS	FREESTANDING STEEL SYMBOLS	X-BASE	BI-POD
		TAPERED							TAPERED							

NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT SPECIFICATIONS FOR PRODUCT DESCRIPTIONS DETAILED IN PLAN.

NOTE: REFER TO FURNITURE FLOOR PLAN FOR LAYOUT.	NEW	RELOCATED	EXISTING
PRODUCT KEY			NO HATCH USED

VERIFY EXISTING SEATING TO BE SHOWN AS EXISTING AND/OR RELOCATED FOR NEW SEATING LAYOUT SHOWN. SEATING LAYOUT SHOWN IS BASED ON THE LAST FURNITURE DWGS/ INSTALLATION.



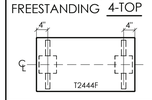


TYPICAL INSTALLATION PROCEDURE
"RAISED CORED" WALL TYPE

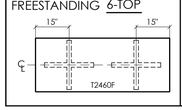
1. CORE PER CORE DRILL PLAN.
2. SET WALL IN PLACE, VERIFYING PLACEMENT AND FOR PLUMB.
3. LIFT WALL ENOUGH TO SEE THAT CORE HOLE IS FILLED LEVEL WITH POR-ROCK.
4. LOWER WALL INTO PLACE AND CHECK FOR SQUARE AND PLUMB.

DIVIDER WALL DETAIL (RAISED- CORED TO THE FLOOR)
SCALE: NTS

STD. HEIGHT BI-POD FREESTANDING 4-TOP



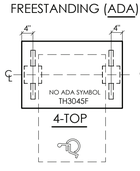
STD. HEIGHT X-BASE FREESTANDING 6-TOP



CFA TABLE STEEL

NOTE: CONTACT CHI IF TABLE SIZE/ BASE IS NOT SHOWN IN TYPICAL STEEL KEY.

STD. HEIGHT BI-POD FREESTANDING (ADA)



STD. HEIGHT BI-POD FREESTANDING (ADA)

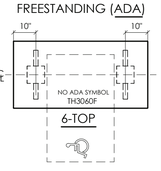
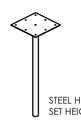
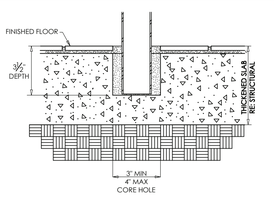


TABLE STEEL

BAR HEIGHT 12" PLATE



(A) TSRBBW
QTY:2



TYPICAL CORE HOLE DETAIL
DETAIL APPLIES TO CORE DRILLED TALL TABLES AND CORE DRILLED STREAMLINE QUEUE RAIL ONLY.

Chick-fil-A
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Atlanta, Georgia 30349

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CHARTER HOUSE HOLDINGS, LLC
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Zeeland, MI 49464
Phone: 616.399.6000 Fax: 616.796.1199
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ISSUED FOR CONSTRUCTION

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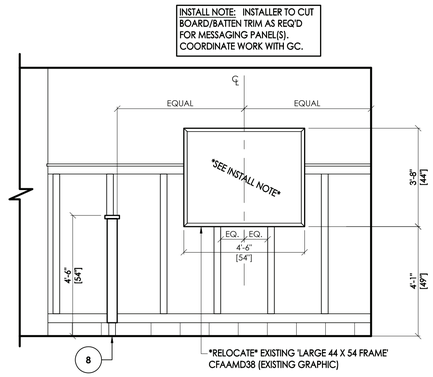
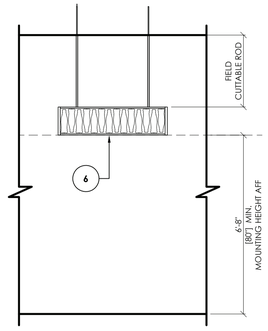
PRINTED FOR	CONSTRUCTION
DATE	02/09/2024
DRAWN BY	RK

SHEET
CORE DRILL PLAN

SHEET NUMBER
F-211



A INTERIOR MESSAGING
SCALE: 3/8" = 1'-0"



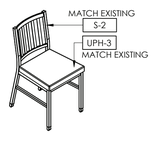
B COKE FIXTURE - TYP MTG. HEIGHT
SCALE: 3/8" = 1'-0"

MATERIALS & FINISH SCHEDULE (FURNITURE & DECOR) - Always Fresh 19 Palette *MATCH EXISTING*

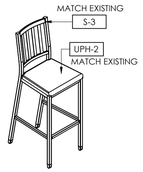
MATERIAL	CODE	MANUFACTURER	PRODUCT SPECIFICATION	SIZE	CONTACT / ADDITIONAL INFORMATION	SUPPLIER	INSTALLER	REVISION
STEEL								
	S-1	N/A	BLACK WRINKLE	N/A	CHI MANUFACTURING	CHI	N/A	
	S-2	N/A	RESOLVE SILVER METALLIC	N/A	CHI MANUFACTURING	CHI	N/A	
	S-3	N/A	DARK CHERRY	N/A	CHI MANUFACTURING	CHI	N/A	
	S-4	N/A	TRI-SMOKE MINI TEX, #T1-7060	N/A	CHI MANUFACTURING	CHI	N/A	
	S-5							
	S-6	N/A	TIGER 89/80419 RAL 9011-FINE TEXTURE	N/A	CHI MANUFACTURING	CHI	N/A	
UPHOLSTERY								
	UPH-1	CF STINSON	SLEEK, SLK38, CHARISMA (VINYL)	N/A	CHI UPHOLSTERY DISTRIBUTOR	CHI	N/A	
	UPH-2	ARC COM	DURANGO, AC-67567 RED (VINYL)	N/A	CHI UPHOLSTERY DISTRIBUTOR	CHI	N/A	
	UPH-3	CF STINSON	MONTANA, CFASB, SABLE BROWN (VINYL)	N/A	CHI UPHOLSTERY DISTRIBUTOR	CHI	N/A	
	UPH-4	MOMENTUM	FOLD	N/A	CHI UPHOLSTERY DISTRIBUTOR	CHI	N/A	
PLASTIC LAMINATE								
	PL-1	WILSONART	CAFELLE 7933-38	N/A	LOCAL DISTRIBUTOR	CHI	N/A	
	PL-2	PIONITE	CAVALCADE SOUTH, AT650	N/A	LOCAL DISTRIBUTOR	CHI	N/A	
	PL-3	WILSONART	PINNACLE WALNUT, 7992-38	N/A	LOCAL DISTRIBUTOR	CHI	N/A	
SOLID SURFACE								
	SS-1	AVONITE	F1-9144, PALERMO	N/A	LOCAL DISTRIBUTOR	CHI	N/A	
	NOTE: DARK SOLID SURFACES SHOW MORE WEAR OVER TIME							
EDGE BAND								
	EB-1	N/A	REHAU, NUBIAN BROWN	N/A	CHI MANUFACTURING	CHI	N/A	
DECORATIVE BOARD								
	DB-1	NOT USED						
TRIMS								
	TR-1	NOT USED						
	TR-2	N/A	FURNITURE GRADE DURANODIC	N/A	CHI MANUFACTURING	CHI	N/A	
WOOD								
	WD-1	N/A	SOLID WHITE OAK	N/A	CHI MANUFACTURING	CHI	N/A	
GLASS								
	GL-1	NOT USED						
	GL-2	N/A	COKE GLASS - SMART GLASS JEWELRY	N/A	CHI MANUFACTURING	CHI	N/A	

SEATING & DECOR KEY

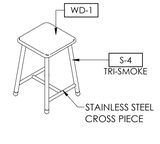
#	DESCRIPTION
1	LIBRARY CHAIR, STANDARD HT (STYLE 1)
2	LIBRARY CHAIR, TALL HEIGHT (STYLE 2)
3	FARM STOOL, 22" HEIGHT
4	MINI ARENA BOOTH *MATCH EXISTING*
5	TABLE *MATCH EXISTING*
6	COKE FIXTURE
7	DIVIDER WALL *MATCH EXISTING*
8	DIVIDER WALL *MATCH EXISTING*
9	WOOD DINING COUNTER *ACCESSIBLE*



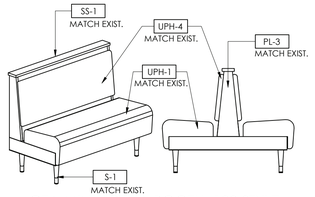
1 LIBRARY CHAIR, STANDARD (STYLE 1)
SCALE: N.T.S



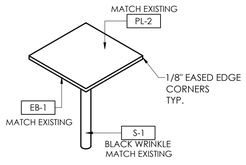
2 LIBRARY CHAIR, TALL (STYLE 2)
SCALE: N.T.S



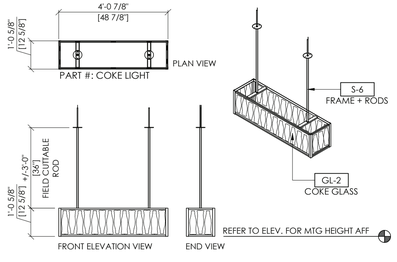
3 FARM STOOL, 22" HEIGHT
SCALE: N.T.S



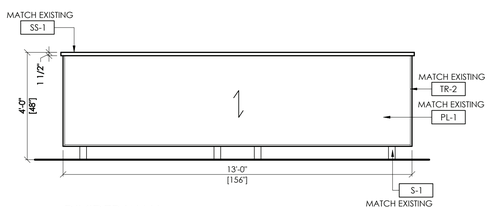
4 CFA MINI ARENA BOOTH: 100 STYLE
SCALE: N.T.S.



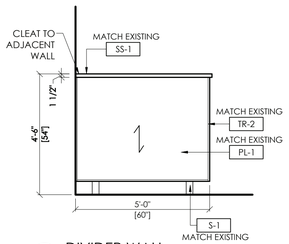
5 TABLES (TYP)
SCALE: N.T.S



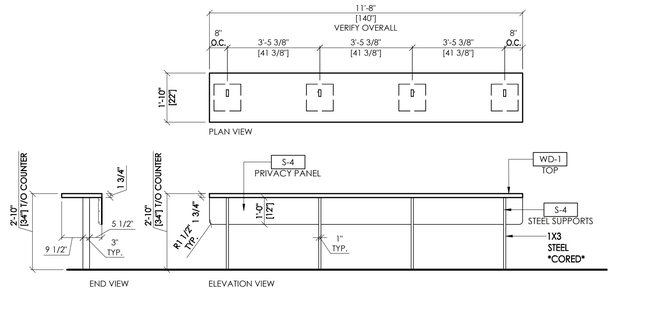
6 COKE FIXTURE
SCALE: 3/8" = 1'-0" QTY: 1



7 DIVIDER WALL
SCALE: 3/8" = 1'-0" QTY: 1



8 DIVIDER WALL
SCALE: 3/8" = 1'-0" QTY: 1



9 WOOD DINING COUNTER WITH PRIVACY PANEL (ACCESSIBLE HEIGHT) *CORED*
SCALE: 3/8" = 1'-0" QTY: 1

INTERIOR MESSAGING PANELS TO GET MOUNTED DIRECTLY OVER THE BOARD/BATTEN WALL FINISH AS SHOWN **UNLESS NOTED OTHERWISE** TO CUT UPPER HORIZONTAL TRIM & VERTICAL BOARD & BATTEN TRIM.

REFER TO CHI ELEVATIONS FOR INTERIOR MESSAGING &/OR DECOR MOUNTING LOCATIONS ONLY. REFER TO ARCHITECTURAL SHEETS FOR WALL FINISH INFORMATION.

INSTALL NOTE:
INSTALLER TO CUT BOARD/BATTEN TRIM AS REQUIRED FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.

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5200 Buffington Road
Atlanta, Georgia 30349

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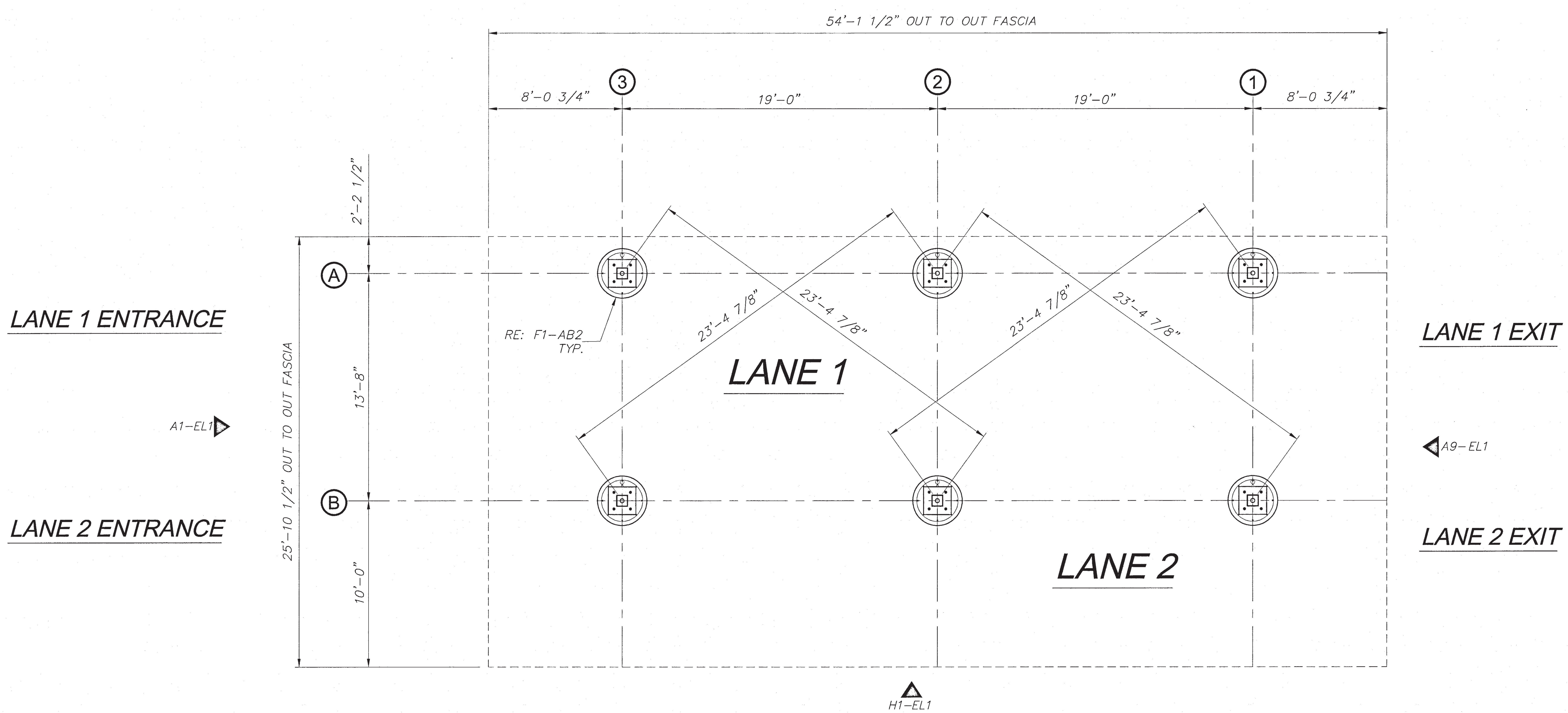
DRAWN BY RK

SHEET
DECOR ELEVATIONS
PRODUCT DETAILS

SHEET NUMBER
F-701



F1	COLUMN AND FOOTING LOCATIONS
1/4" = 1'-0"	.

A1 FOUNDATION NOTES
N.T.S.

1. ALL FOUNDATION WORK BY OTHERS AND SUBJECT TO LOCAL APPROVAL.
2. THE FOUNDATION DESIGN IS BASED UPON SECTION 1807.3.2.2-IBC 2018 EDITION. THE DESIGN CRITERIA SELECTED ASSUMES: SITE CLASS D MATERIAL OR BETTER, SOIL BEARING CAPACITY OF 1,500 p.s.f. AND A PASSIVE SOIL PRESSURE OF 100 p.s.f. PER FOOT OF DEPTH.
3. DRILLED SHAFT FOOTINGS SHALL BE INSTALLED PER ACI STD. 336.
4. CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI STANDARD 318-14 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (F'C) AT THE END OF 28 DAYS SHALL BE 2500 PSI MIN.
6. REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 LATEST REVISION.
7. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING BARS SHALL COMPLY WITH ACI 315, ACI 318 AND CRSI STANDARDS.
8. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554-GR36.
9. LANE IS NOT RESPONSIBLE FOR FOOTING POURED PRIOR TO PERMITTING.
10. FOOTINGS ARE DESIGNED TO BE CONSTRAINED AT THE TOP BY A 6" SLAB. IF THEY ARE NOT, PLEASE NOTIFY LANE SUPPLY CO.
11. POUR FOOTINGS TO SAME TOP ELEVATION.
12. USE MASTER FLOW 928 NON-SHRINK GROUT OR EQUIVALENT F'm=5000 p.s.i.
13. G.C. TO ENSURE THAT FOOTINGS DO NOT INTERFERE WITH UNDERGROUND UTILITIES

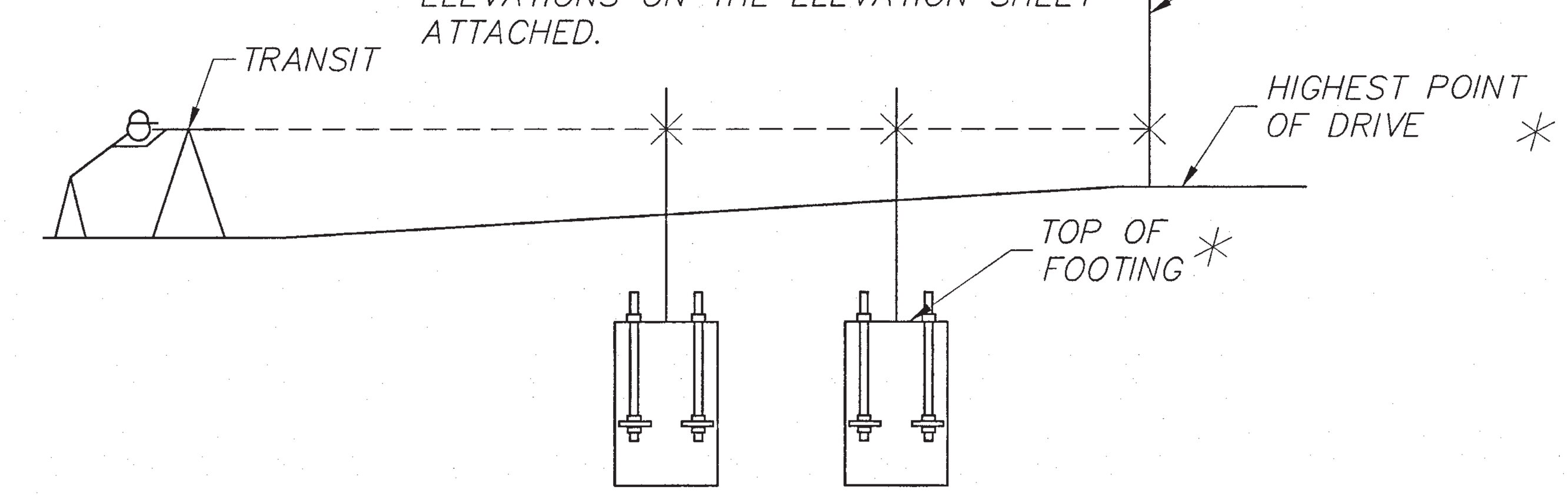
A5 GENERAL NOTES
N.T.S.

1. TOP OF ALL CANOPY FOOTINGS ARE TO BE POURED A MINIMUM OF 12" BELOW FINISHED GRADE OR AS REQUIRED BY LOCAL CODES AND ORDINANCES.
2. IT IS THE OWNERS RESPONSIBILITY TO CONVEY TO ALL CONTRACTORS THAT IT IS THEIR RESPONSIBILITY TO INSURE THAT THE SITE IS PROPERLY EXCAVATED AND GRADED. DURING CONCRETE FORMING PRIOR TO AND AFTER THE POUR, THE CONCRETE SHOULD BE CHECKED FOR PROPER ELEVATION, SQUARE AND CORRECT DIMENSIONS.
3. MEASUREMENTS FOR ANCHOR BOLTS ARE EXACT AND SHOULD BE RECHECKED TO INSURE PROPER LOCATION.
4. CORRECTION OF LOCATION, OF ELEVATION AND OF DIMENSIONAL ERRORS MUST BE MADE PRIOR TO THE ARRIVAL OF THE ERECTION CREW AND PRIOR TO THE ERECTION OF THE STRUCTURE.
5. AFTER THE FORMS HAVE BEEN REMOVED, ALL TRENCHES, HOLES AND UNEVEN SITE CONDITIONS MUST BE LEVELED TO INSURE A SAFE WORKING AND ACCESS AREA ACCEPTABLE TO LOCAL, STATE, FEDERAL AND OSHA AGENCIES.

A9 FOOTING ELEVATIONS
N.T.S.

VERY IMPORTANT:

AFTER FOOTINGS ARE POURED PLEASE PROVIDE LANE CO. WITH THE FOOTING ELEVATIONS ON THE ELEVATION SHEET ATTACHED.



* MUST PROVIDE THIS INFORMATION.

A14 DESIGN LOADS
N.T.S.

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018 ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f. Ce = 1.2 Ct = 1.2 Is = 1.0
W = DRIFT LOADS NOT CONSIDERED
Pd = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 0.84 KIPS

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By

Seal
STATE OF MISSOURI
RICHARD D. McCASKEY
E-2000164393
REGISTERED PROFESSIONAL ENGINEER
SEP 07 2023

C.O.A. 2001015838

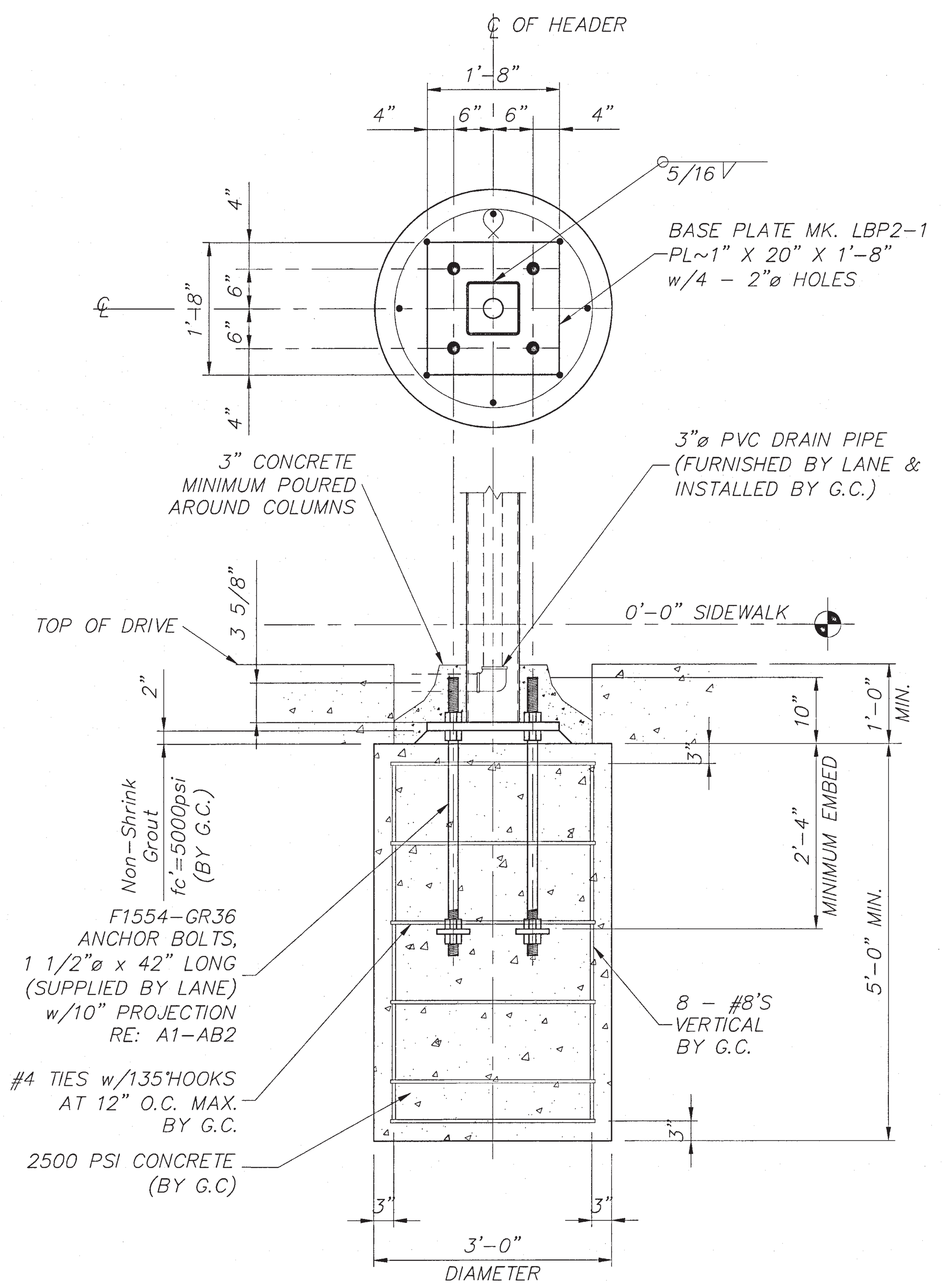
LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PARKWAY.
LEE'S SUMMIT,MO 64086

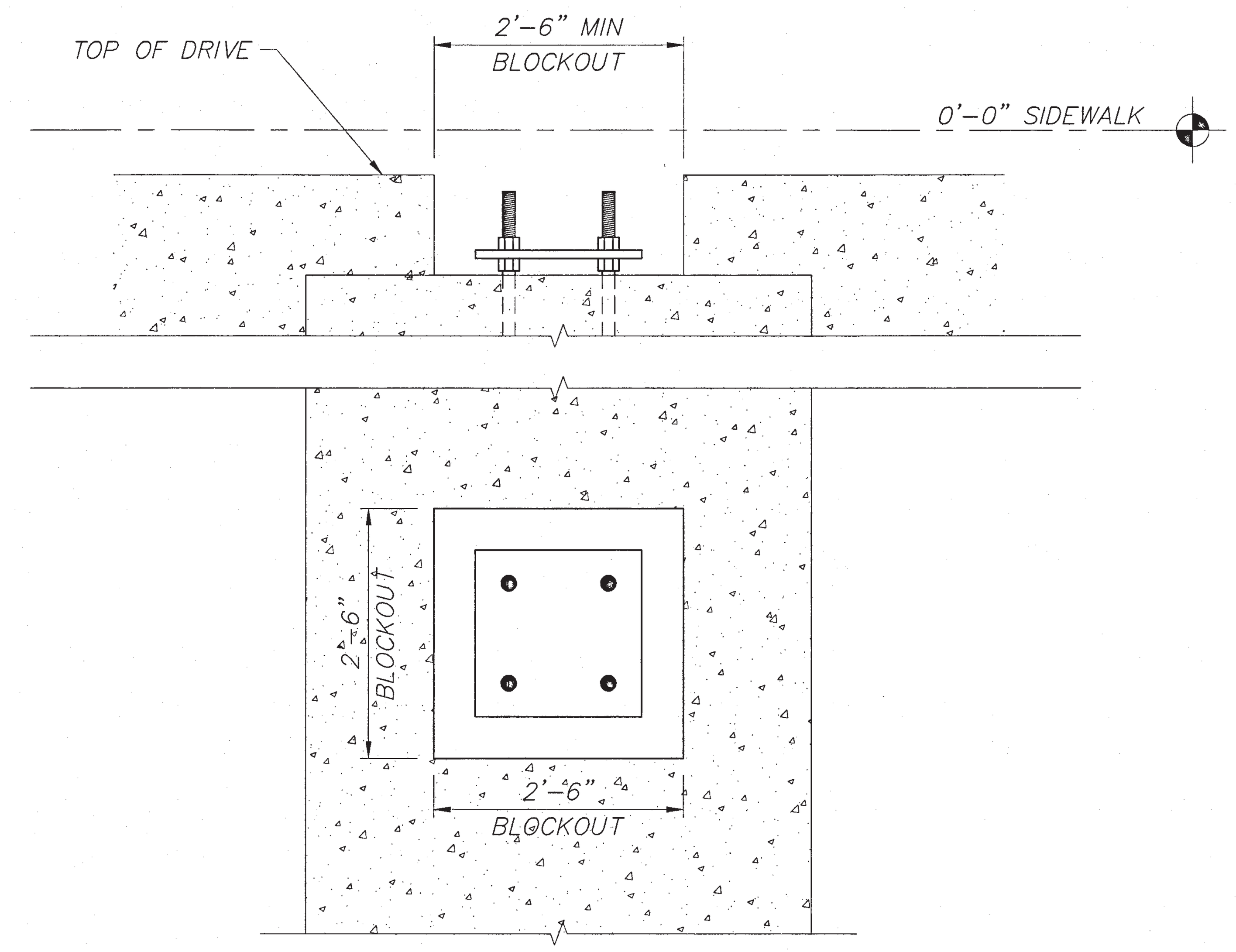
SHEET TITLE
CANOPY FOOTING LOCATIONS
25'-10 1/2" X 54'-1 1/2"

Job No. : LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
Checked By: RM

Sheet
F2FC-1
AB1 OF 2

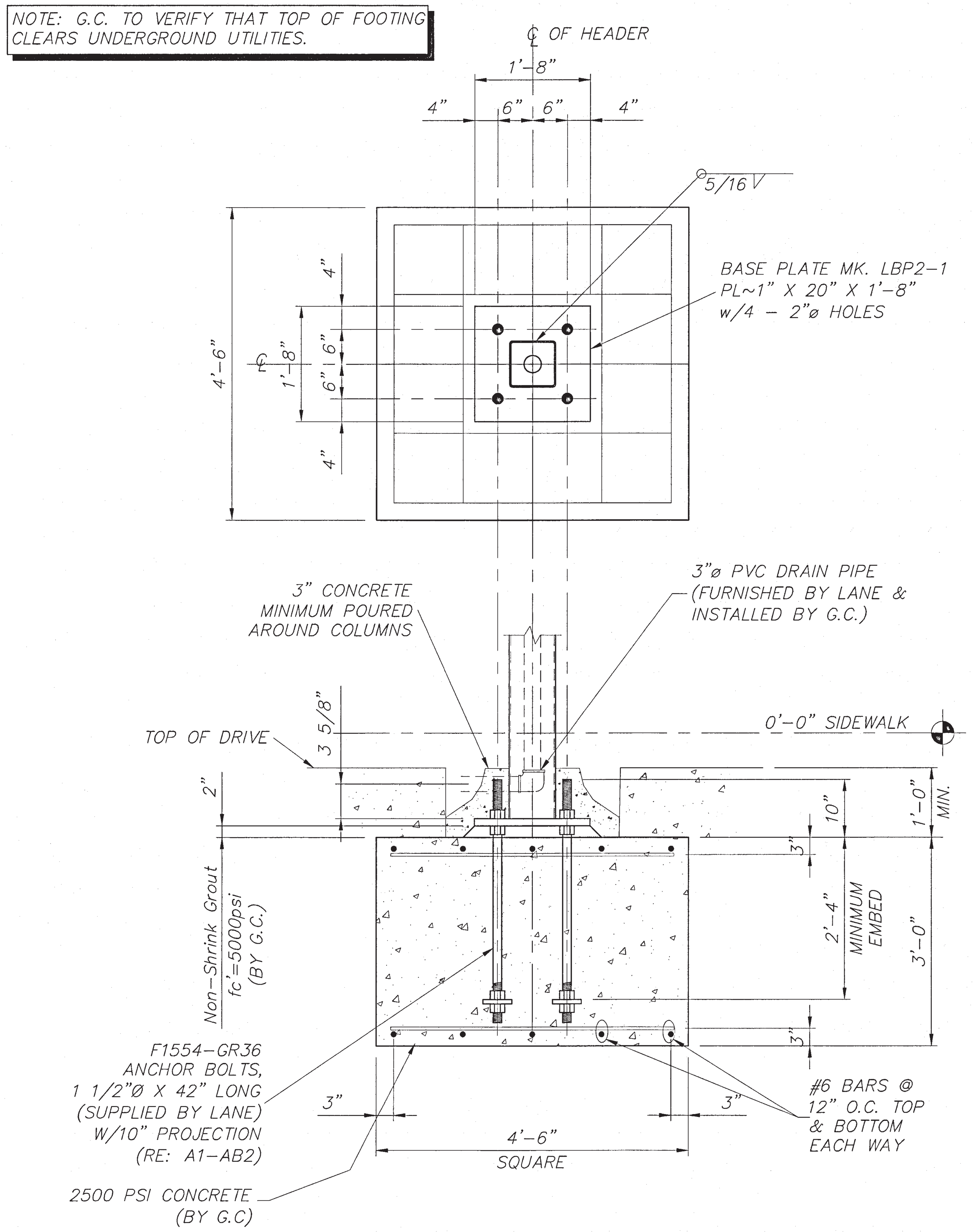


F1	ROUND FOOTING OPTION
N.T.S	F1-AB1

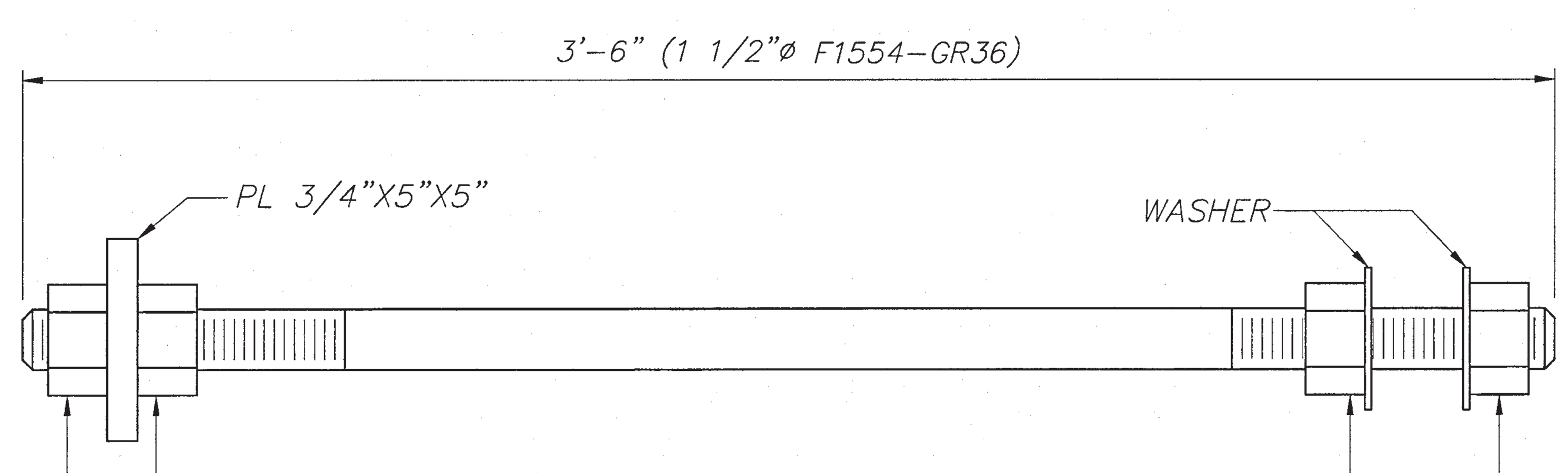


F6	BLOCKOUT FOR ANCHOR BOLTS
N.T.S	.

NOTE: G.C. TO VERIFY THAT TOP OF FOOTING CLEARS UNDERGROUND UTILITIES.



F11	SPREAD FOOTING OPTION
N.T.S	F1-AB1



ANCHOR BOLT TO BE THREADED 10" EACH END MINIMUM
ANCHOR BOLT MAY BE THREADED IN ITS ENTIRETY
ANCHOR BOLT SUPPLIED BY LANE SUPPLY, INC

A1	ANCHOR BOLT DETAIL
N.T.S.	F1-AB2, F11-AB2

A6	NOT USED
.	.

A10	NOT USED
.	.

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED
COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f. Ce = 1.2 Ct = 1.2 Is = 1.0
W = DRIFT LOADS NOT CONSIDERED
Pd = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 0.84 KIPS

A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By

Seal
STATE OF MISSOURI
RICHARD D. MCCASKEY
PE-2000164393
PROFESSIONAL ENGINEER
SEP 07 2023

C.O.A. 2001015838

LANE
SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE
PARKWAY.
LEE'S SUMMIT,MO
64086

SHEET TITLE
CANOPY FOOTINGS
25'-10 1/2" X 54'-1 1/2"

Job No. : LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
Checked By: RM

Sheet
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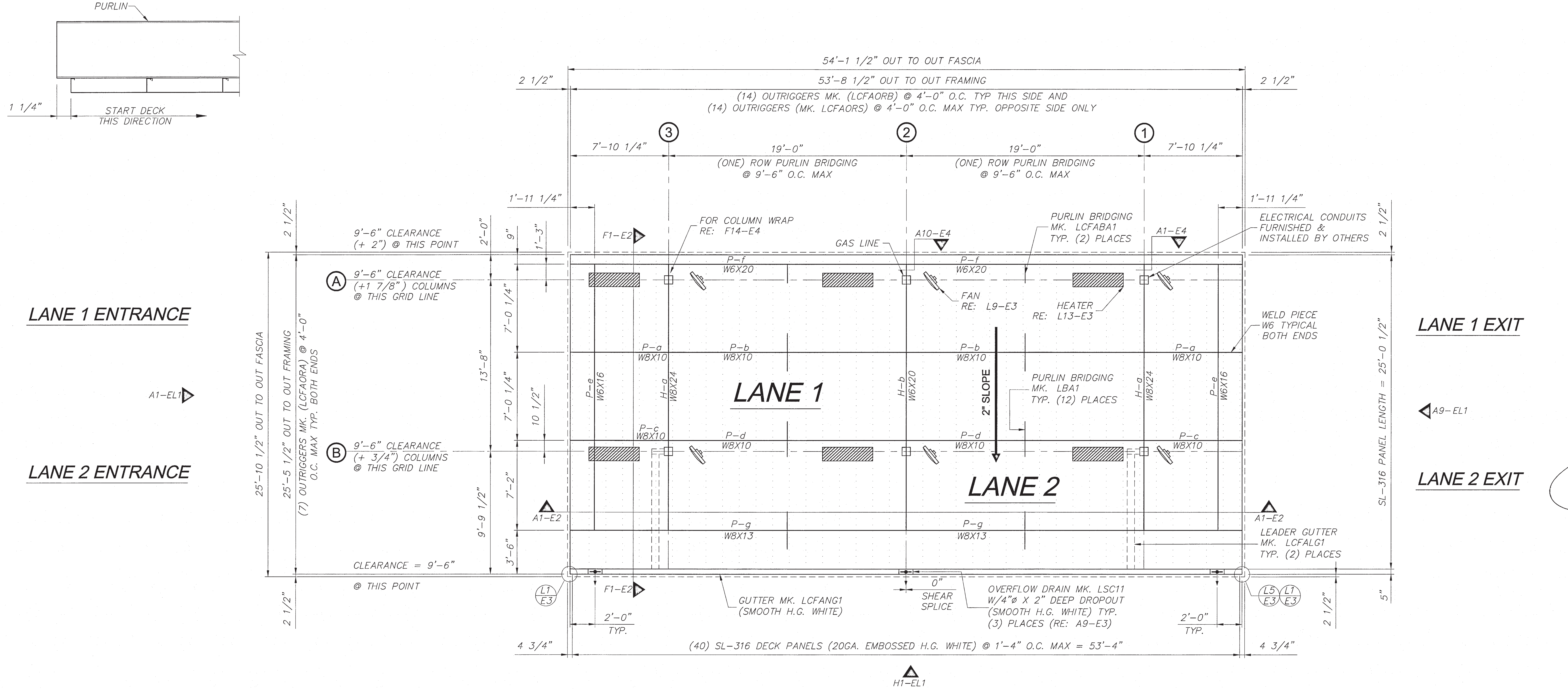
AB2 OF 2



F1	CANOPY FRAMING LAYOUT
1/4" = 1'-0"	.

STRUCTURAL STEEL SHALL MEET THE AISC 2017 SPECIFICATION 15TH EDITION AND THE AISC CODE OF STANDARD PRACTICE, CURRENT VERSION.
COLUMNS TO BE ASTM A500, GRADE B
BOLTS TO BE ASTM A325 OR ASTM F1852 (A325-TC)
INSTALLATION OF BOLTS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION-DEFINED AS THE CONDITION THAT EXISTS WHEN ALL OF THE PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

WIDE FLANGE BEAMS TO BE ASTM A992
ANGLES, & PLATES TO BE ASTM A36
REINFORCING STEEL TO BE ASTM 615, GRADE 60
DECK PANELS TO BE ASTM 653, GRADE C MINIMUM
WELD FILLER METALS SHALL MEET THE MINIMUM CHARPY V-NOTCH REQUIREMENT OF 20 FT-LB AT 0'F WELDING SHALL MEET THE REQUIREMENTS OF THE AWS FOR BUILDING CONSTRUCTION USING E70XX ELECTRODES
ALL STRUCTURAL STEEL TO BE PAINTED WITH ONE SHOP COAT PRIMER
CANOPY FABRICATOR SHALL BE AISC CERTIFIED
LANE SUPPLY INC. IS AN AISC CERTIFIED FABRICATOR (AISC # C-00022431)

A1	GENERAL NOTES
N.T.S.	.

1. REFERENCE SEALANT SCHEDULE FOR ALL APPLICATIONS
2. SEAL ALL JOINTS WITH A SMOOTH, CLEAN APPLICATION
3. APPLY CAULK CLEAR AROUND THE COLUMNS ON THE TOP SIDE OF THE DECK AFTER BOTTOM SIDE HAS BEEN CAULKED.
4. DECK PANELS AND TRIM WILL BE WIPED CLEAN AFTER INSTALLATION
5. ALL TRASH AND EXTRA MATERIALS WILL BE HAULED OFF JOBSITE
6. CHECK WITH GENERAL CONTRACTOR FOR DRAIN ORIENTATION
7. FURNISH & INSTALL LANE DESIGNED AND ENGINEERED "HUNG" DECK
8. FURNISH & INSTALL SUPPORT FRAMING FOR (6) FANS & (6) HEATERS (FANS & HEATERS FURNISHED & INSTALLED BY OTHERS.)
9. FURNISH & INSTALL (6) LSI CRUS-CS-LED-LW-30-UE-WHT CANOPY DECK LIGHTS.
10. FURNISH & INSTALL SHEET METAL FASCIA "CHICK-FIL-A BRONZE".

SEALANT SCHEDULE

SEALANT	COLOR	APPLICATION
SOUDASEAL FC	WHITE	DECK TO COLUMN @ BOTTOM
SOUDASEAL FC	WHITE	GUTTER JOINTS
SOUDASEAL FC	WHITE	DECK TO COLUMN @ TOP
SOUDASEAL FC	WHITE	SEAL @ OVERFLOW DROPOUTS
SOUDASEAL FC	WHITE	SEAL BOLTS @ HEATER SUPPORTS
SOUDASEAL FC	WHITE	DAM UP DECK @ DECK CLOSURE
SOUDASEAL FC	WHITE	SEAL FASCIA @ DECK CLOSURE

A6	ERECTOR'S NOTES
N.T.S.	.

A11	NOT USED
.	.

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f. Ce = 1.2 Ct = 1.2 Is = 1.0
W = DRIFT LOADS NOT CONSIDERED
Pd = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 0.84 KIPS

A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia, 30349-2998

Revisions:
Mark Date By

Seal
STATE OF MISSOURI
RICHARD D. McCASKEY
E-2000164383
REGISTERED PROFESSIONAL ENGINEER
SEP 07 2023

C.O.A. 2001015838

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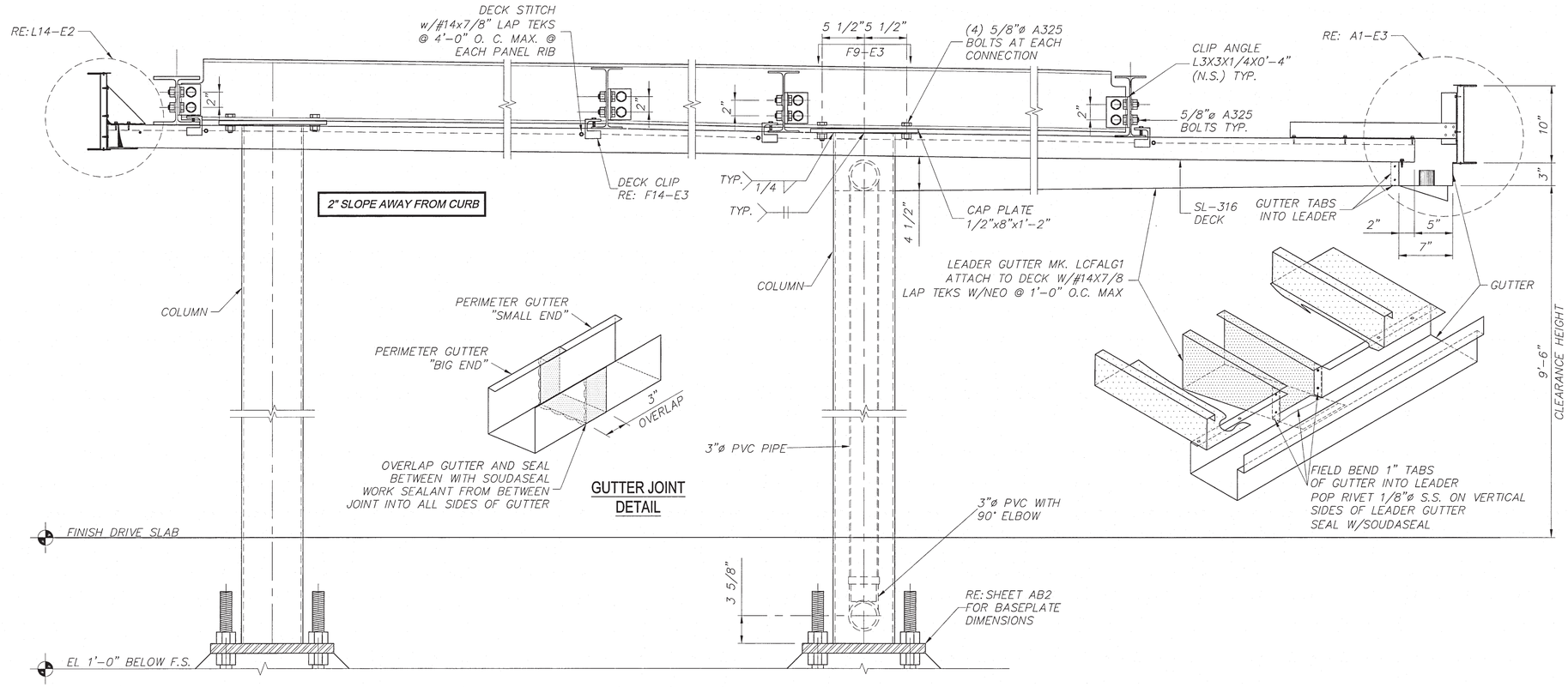
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PARKWAY.
LEE'S SUMMIT,MO 64086

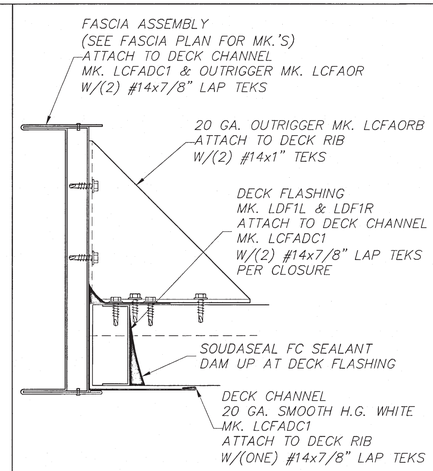
SHEET TITLE
CANOPY FRAMING PLAN
25'-10 1/2" X 54'-1 1/2"

Job No. : LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
Checked By: RM

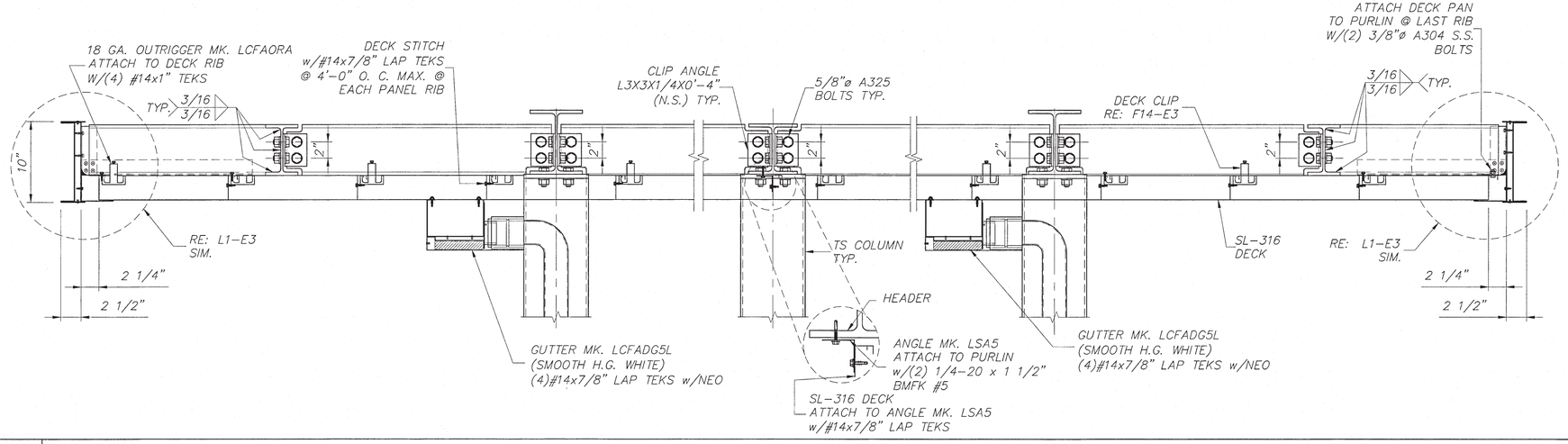
Sheet
F2FC-3
E1 OF 4



FI	FASCIA SECTION
1 1/2" = 1'-0"	FI-EI



LI4	SECTION AT FASCIA
N.T.S.	FI-E2



AI	FASCIA SECTION
1 1/2" = 1'-0"	FI-EI

FI4	NOT USED
.	.

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
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IMPORTANCE FACTOR = 1.0
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CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 0.84 KIPS

AI4	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
SEP 07 2023
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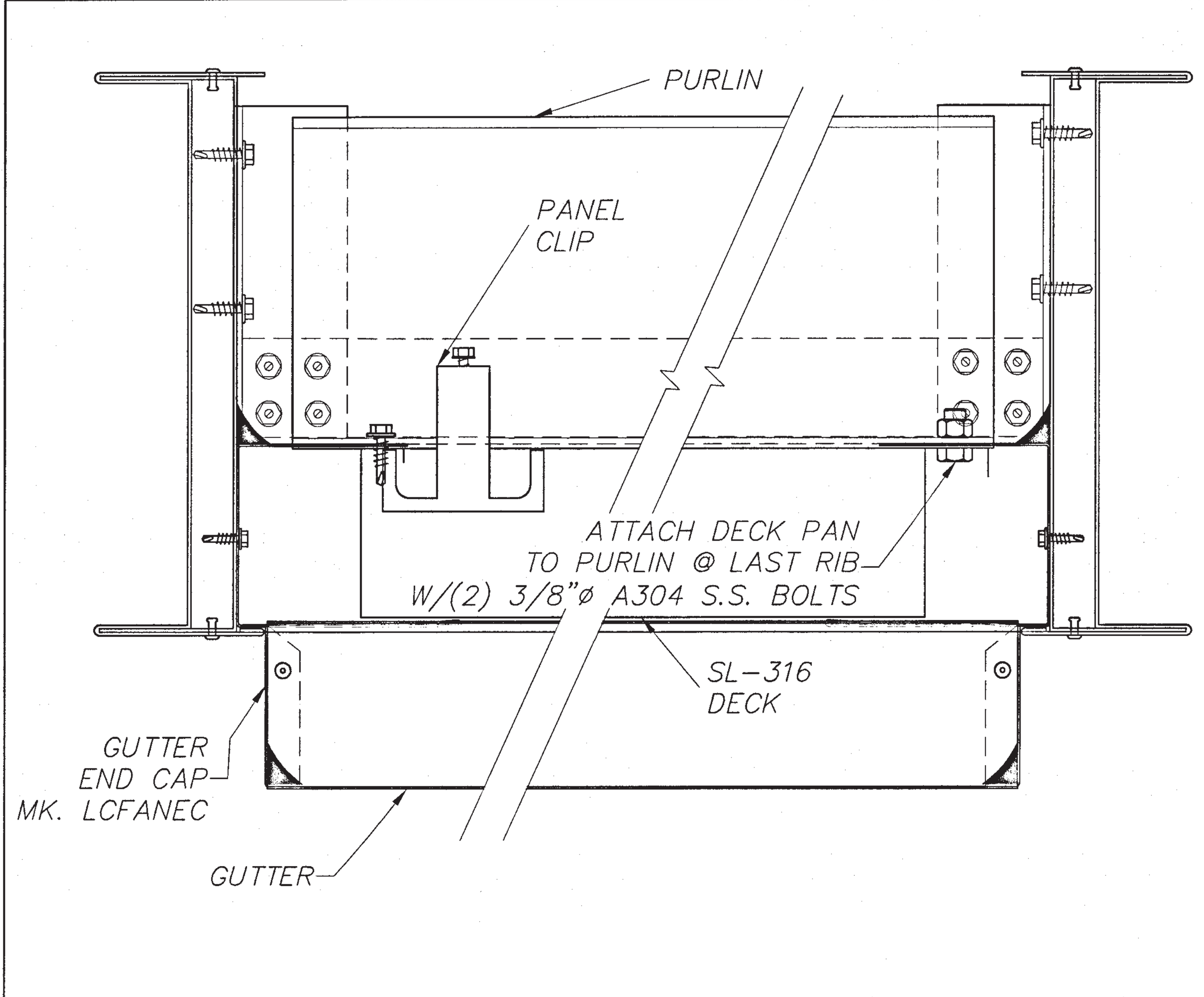
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PARKWAY.
LEE'S SUMMIT,MO 64086

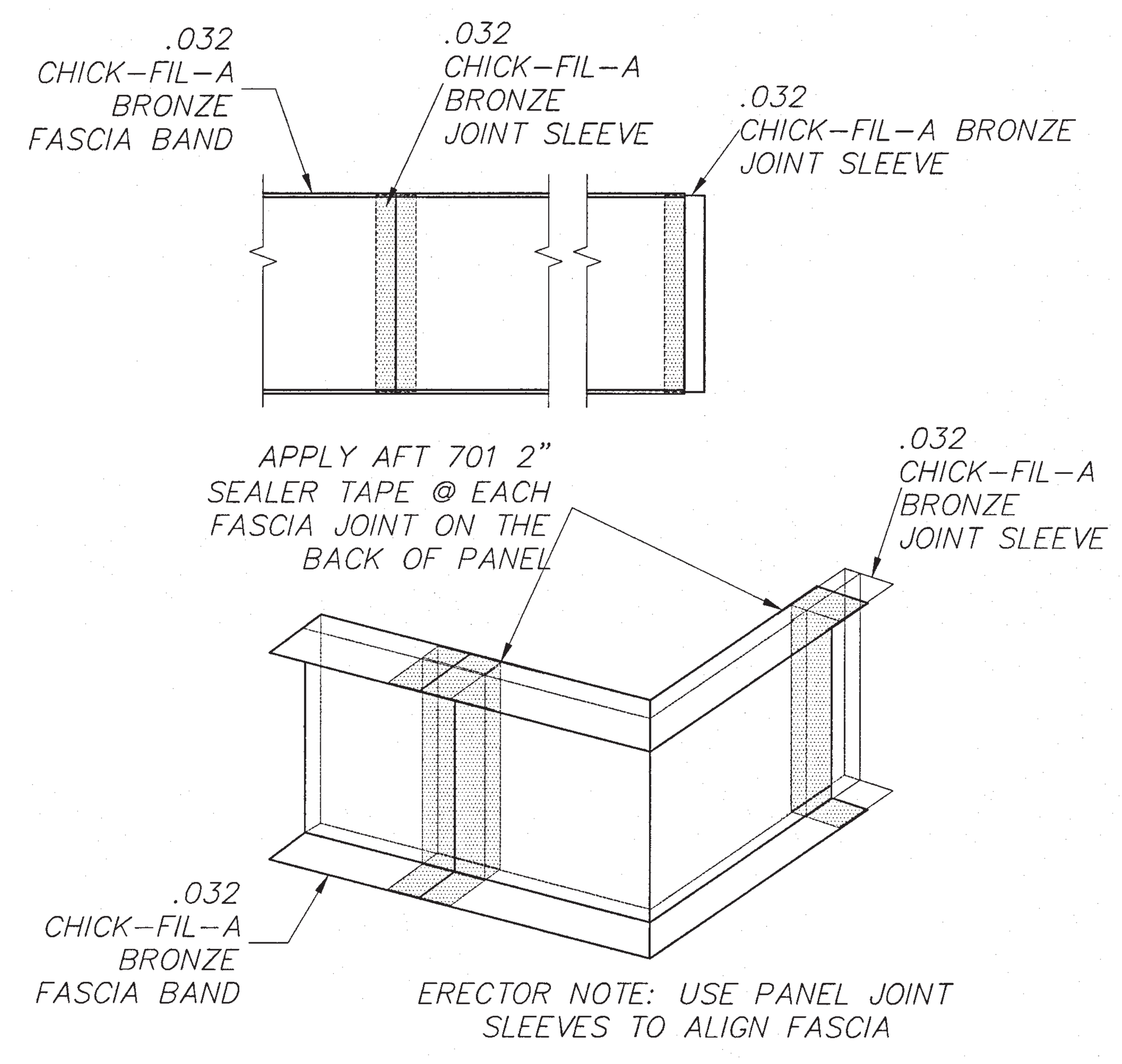
SHEET TITLE
CANOPY SECTIONS
25'-10 1/2" X 54'-1 1/2"

Job No.: LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
Checked By: RM

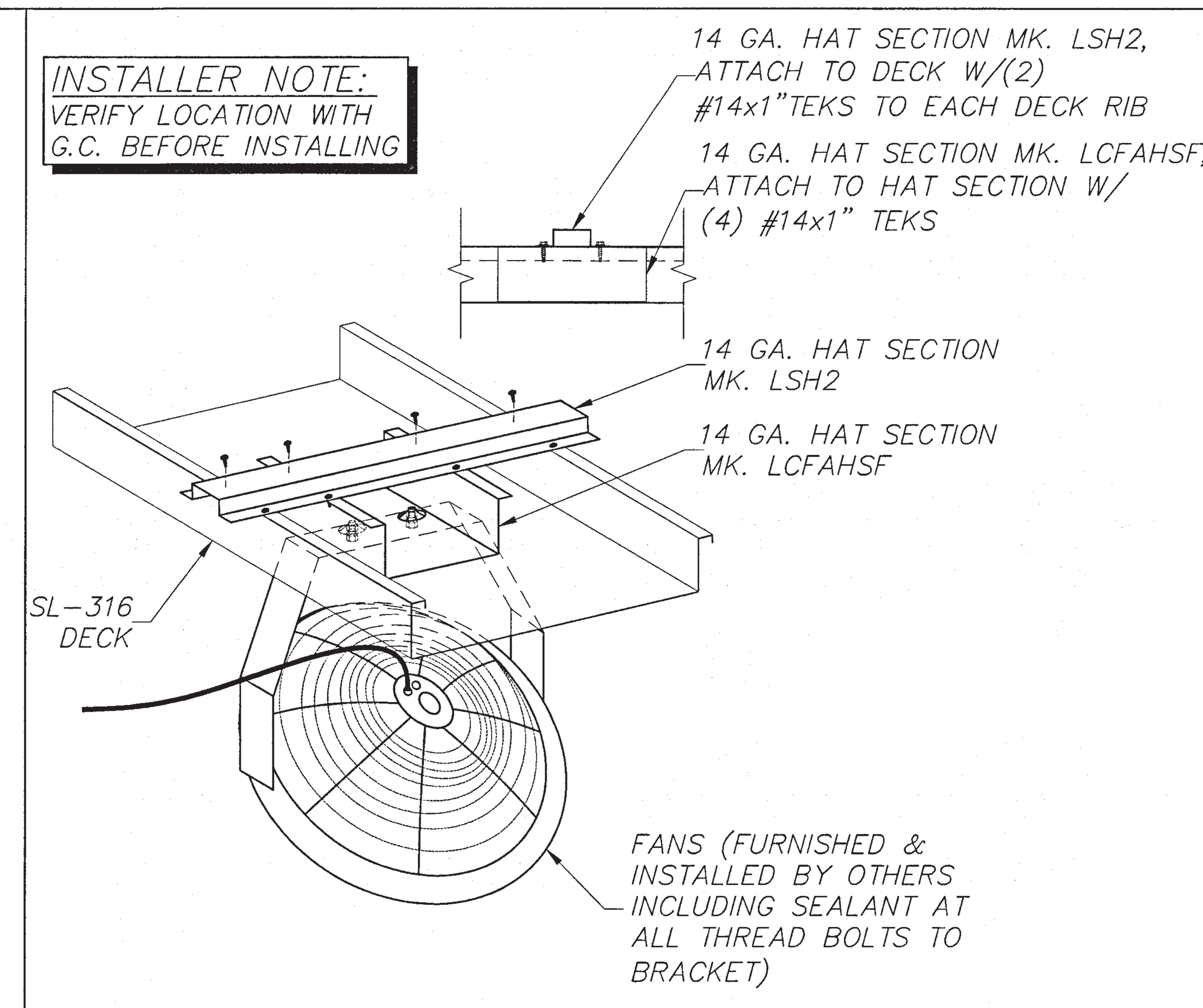
Sheet
F2FC-4
E2 OF 4



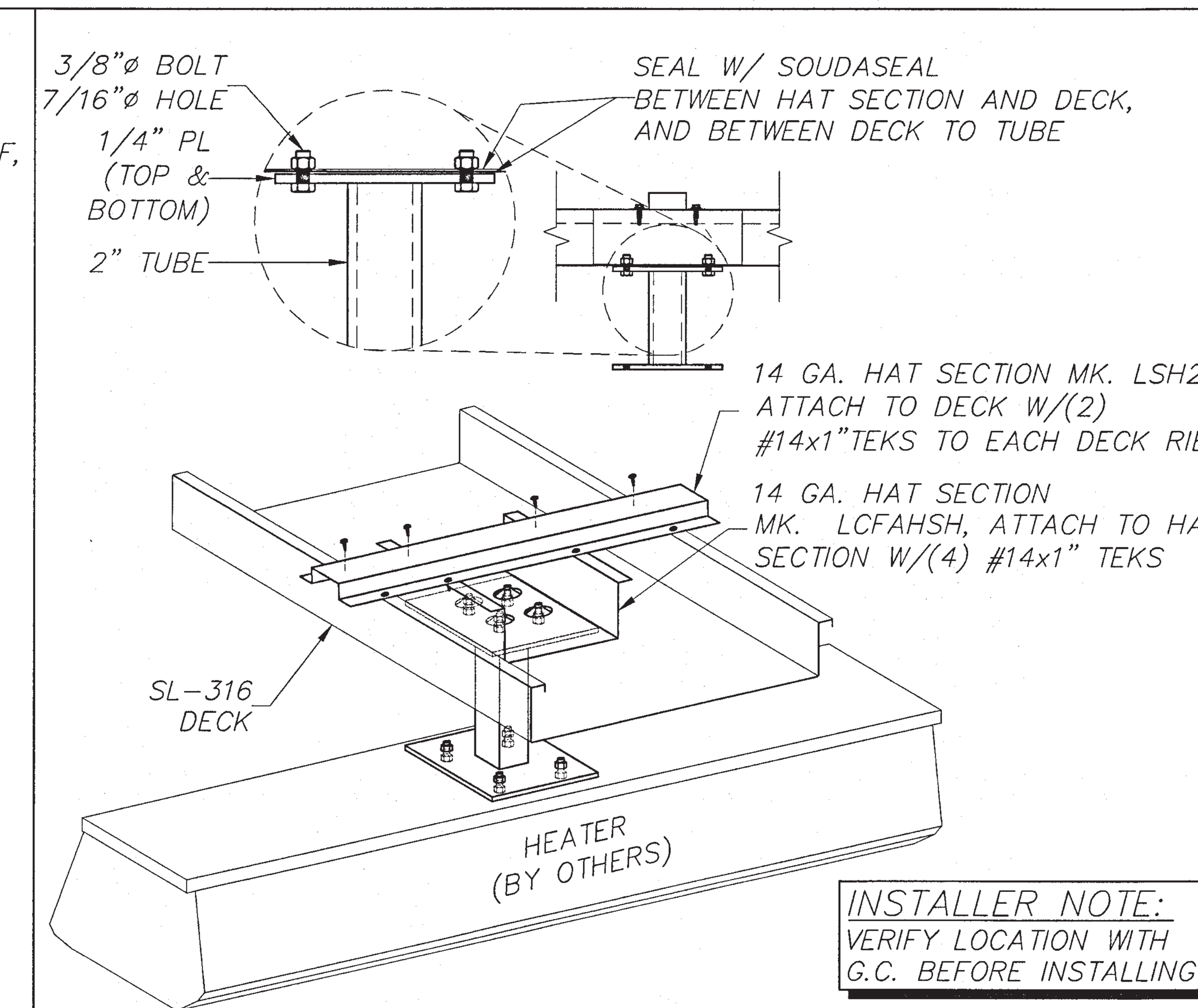
L1 DETAIL AT SIDES OF CANOPY
N.T.S. A1-E2, F1-E1



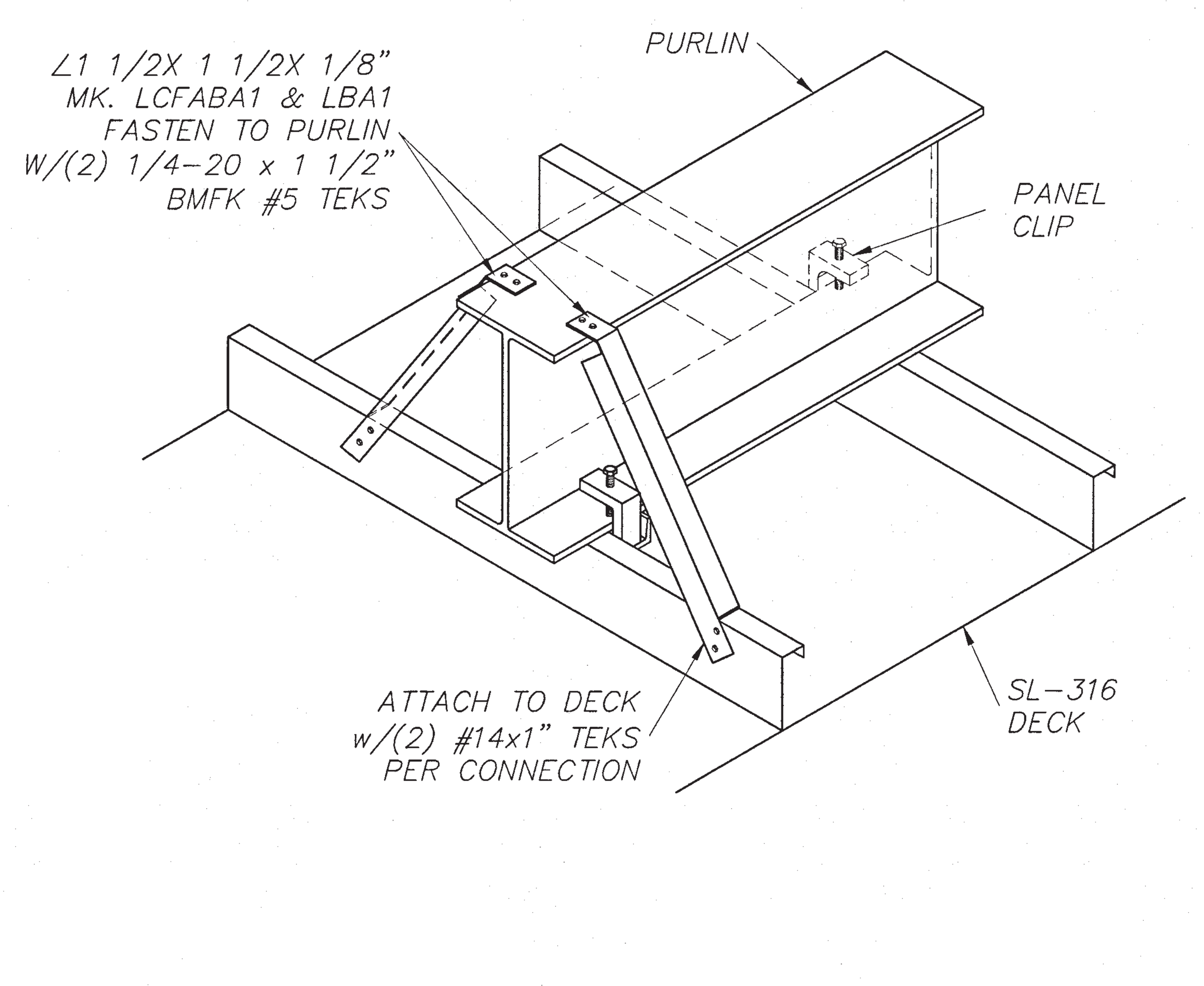
L5 DETAIL AT FASCIA CORNER AND SPLICE
N.T.S. F1-E1



L9 SECTION AT FAN SUPPORT
N.T.S. F1-E1

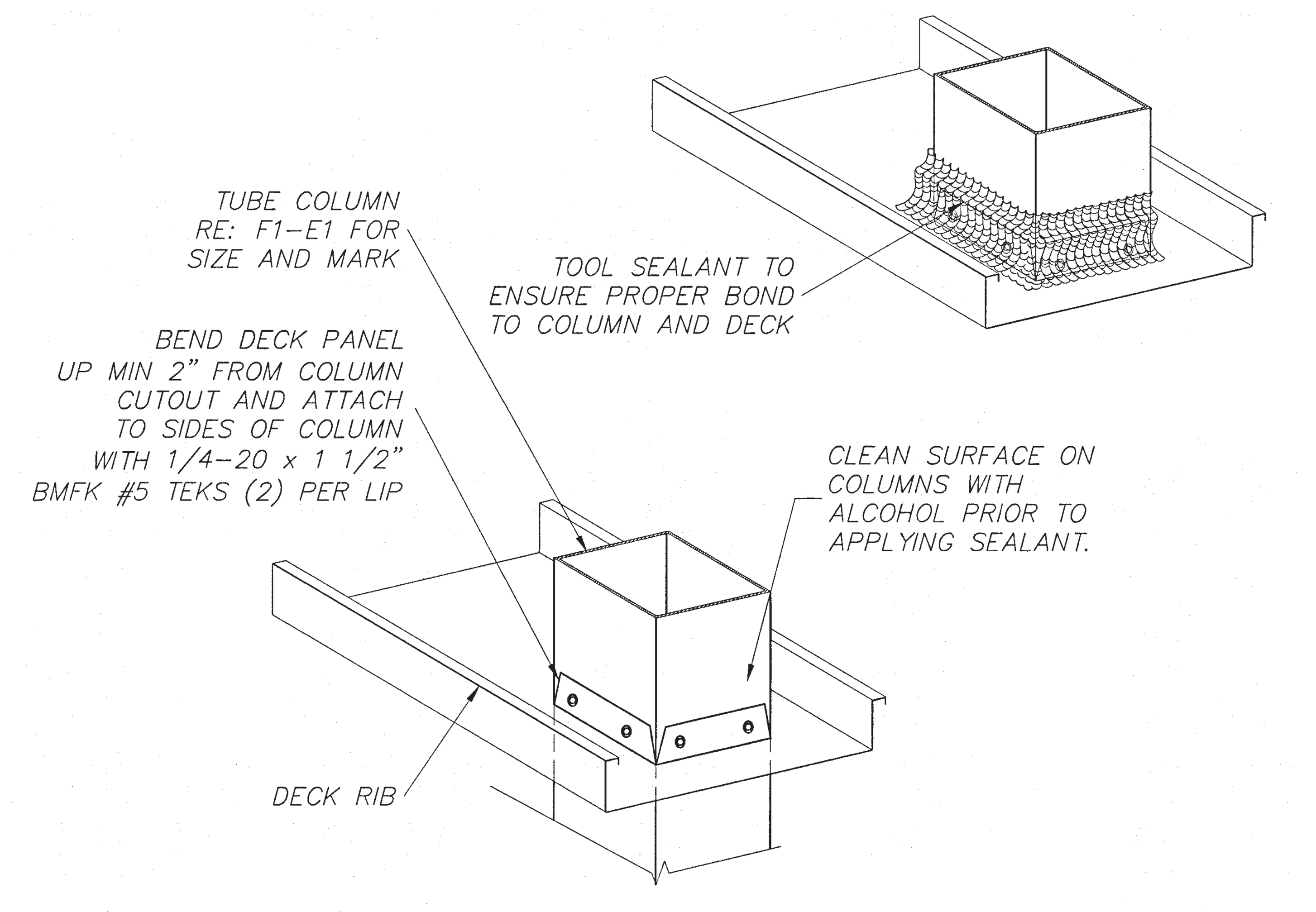


L13 SECTION AT HEATER SUPPORT
N.T.S. F1-E1

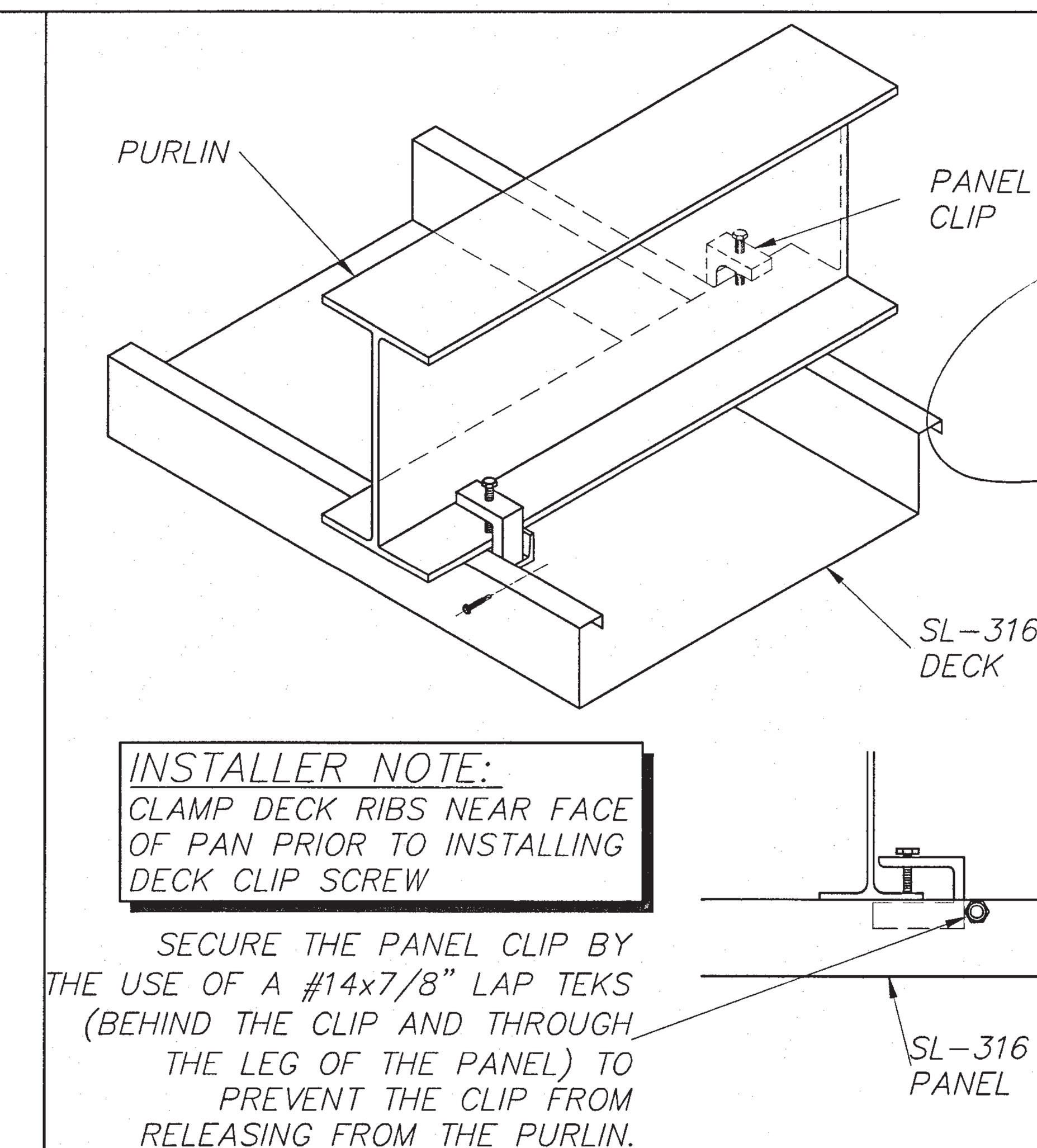


F1 SECTION AT PURLIN BRIDGING
N.T.S. F1-E1

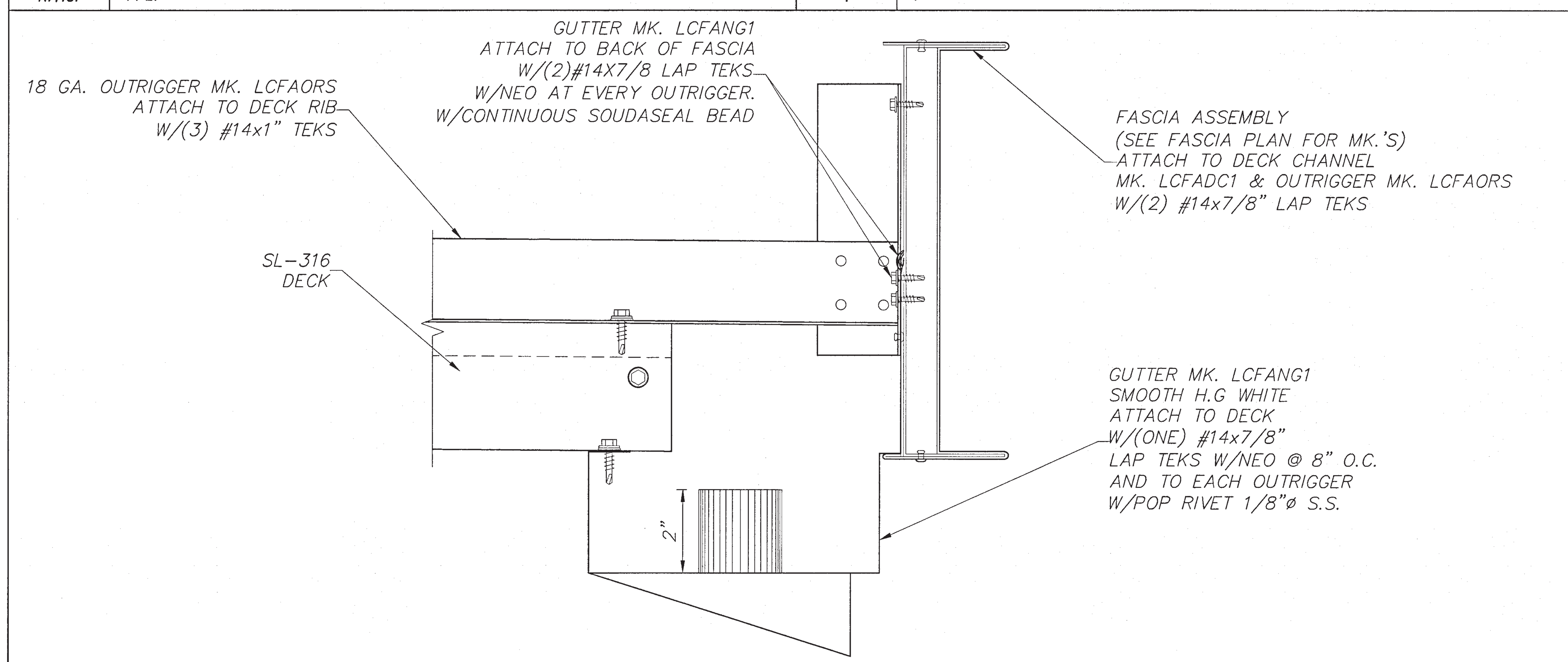
F5 NOT USED



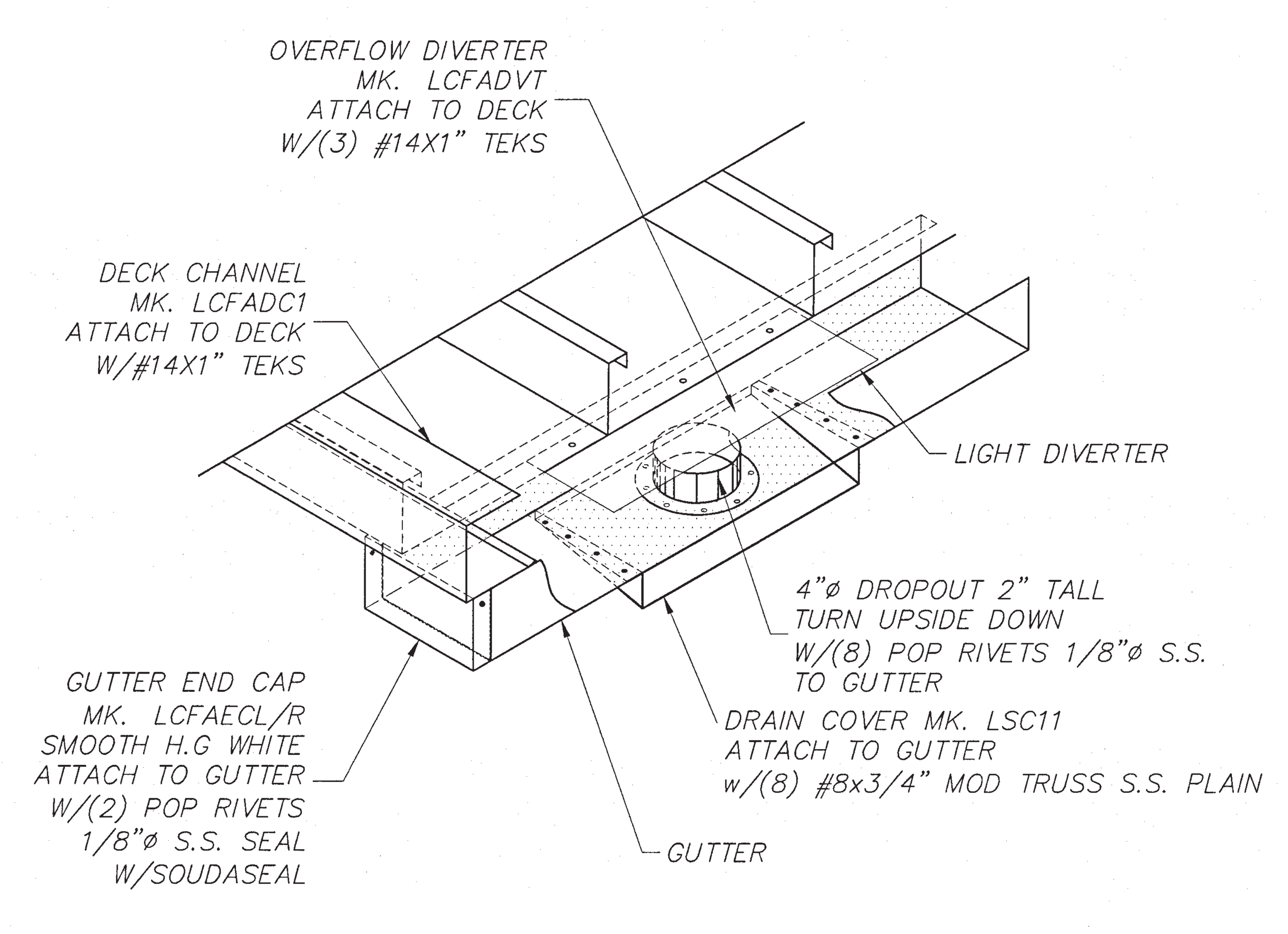
F9 DETAIL AT DECK SUPPORT
1 1/2" = 1'-0" F1-E2



F14 DETAIL AT DECK CLIP
N.T.S. A1-E2, F1-E2



A1 DETAIL AT END OF CANOPY
N.T.S. F1-E1, F1-E2



A9 DETAIL OF OVERFLOW DRAIN
N.T.S. F1-E1

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
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ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED
COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f. Ce = 1.2 Ct = 1.2 Is = 1.0
W = DRIFT LOADS NOT CONSIDERED
Pd = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 0.84 KIPS

A14 DESIGN LOADS
N.T.S.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia, 30349-2998

Revisions:
Mark Date By

Seal
STATE OF MISSOURI RICHARD McCASKEY E-2000164393 PROFESSIONAL ENGINEER
SEP 07 2023
C.O.A. 2001015838

LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PARKWAY.
LEE'S SUMMIT,MO 64086

SHEET TITLE
CANOPY SECTIONS
25'-10 1/2" X 54'-1 1/2"

Job No. : LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
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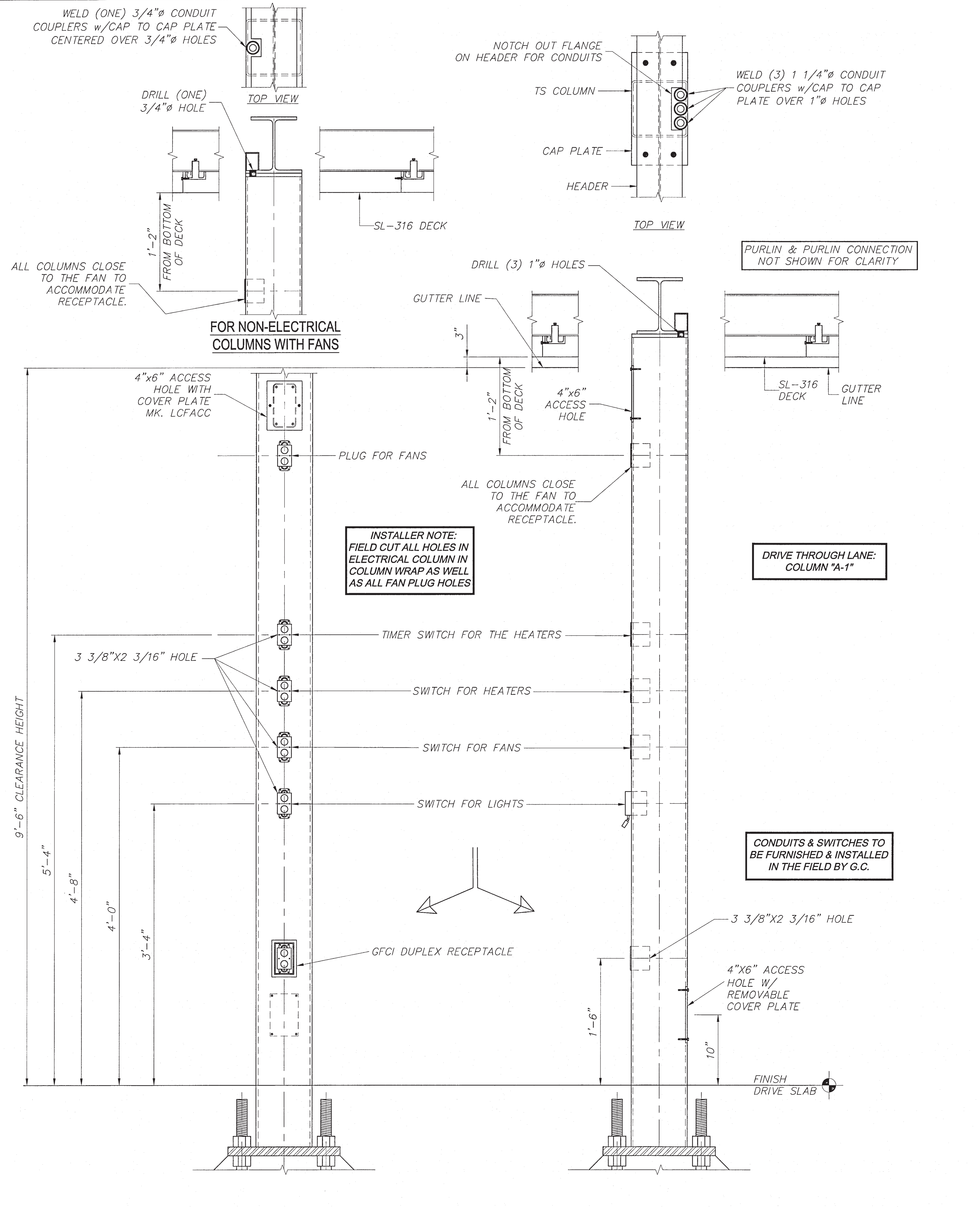
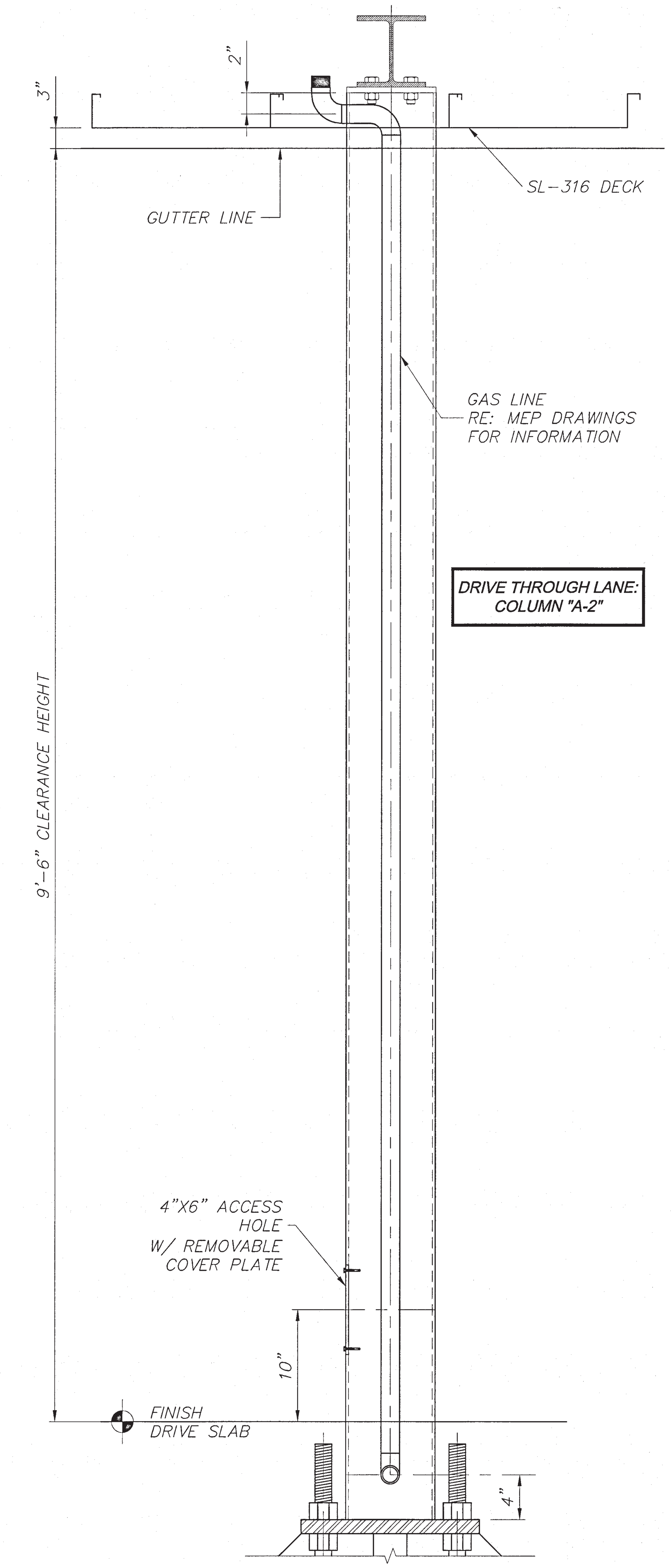
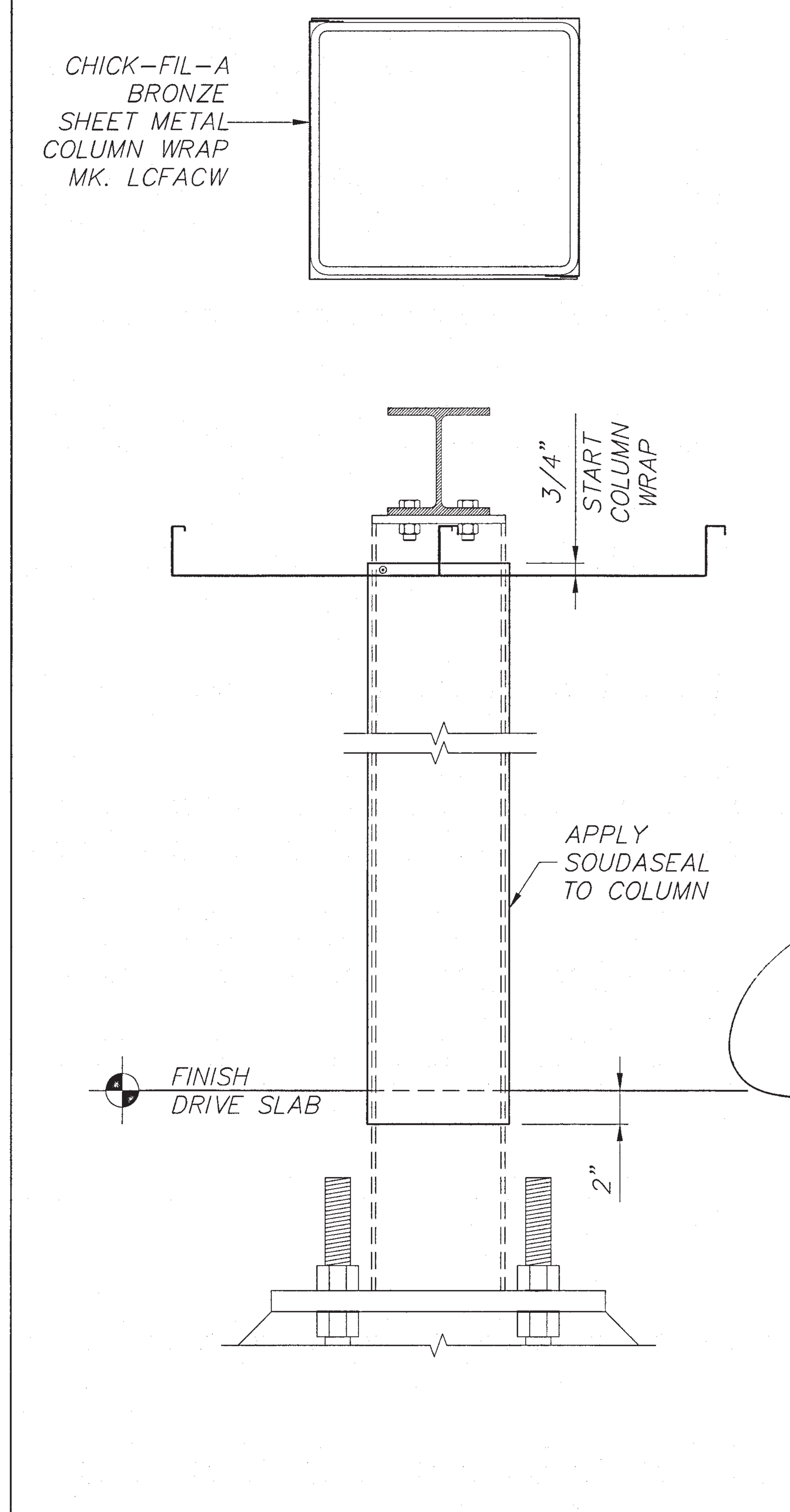
Sheet
F2FC-5
E3 OF 4



A1	SECTION @ COLUMN "A-1"
1 1/2" = 1'-0"	F1-E1



A10	SECTION @ COLUMN "A-2"
1 1/2" = 1'-0"	F1-E1



F14	SECTION AT COLUMN WRAP
N.T.S.	F1-E1

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
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ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f. Ce = 1.2 Ct = 1.2 Is = 1.0
W = DRIFT LOADS NOT CONSIDERED
Pd = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
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Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 0.84 KIPS

A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
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Revisions:
Mark Date By

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RICHARD D. McCASKEY
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SEP 07 2023

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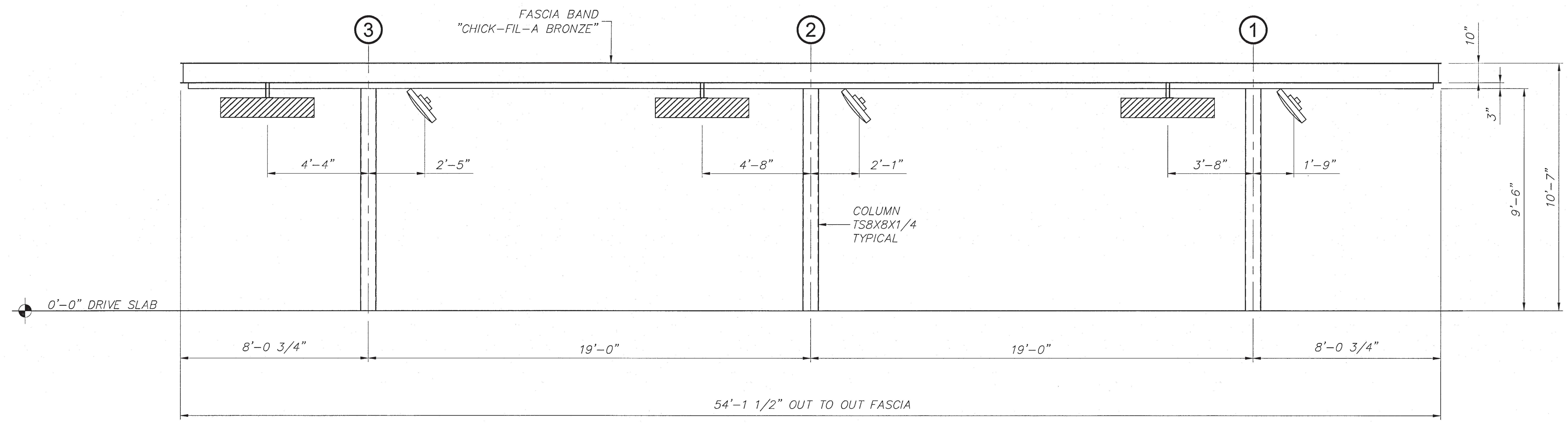
STORE
Chick-fil-A #02859
690 NW BLUE PARKWAY.
LEE'S SUMMIT,MO 64086

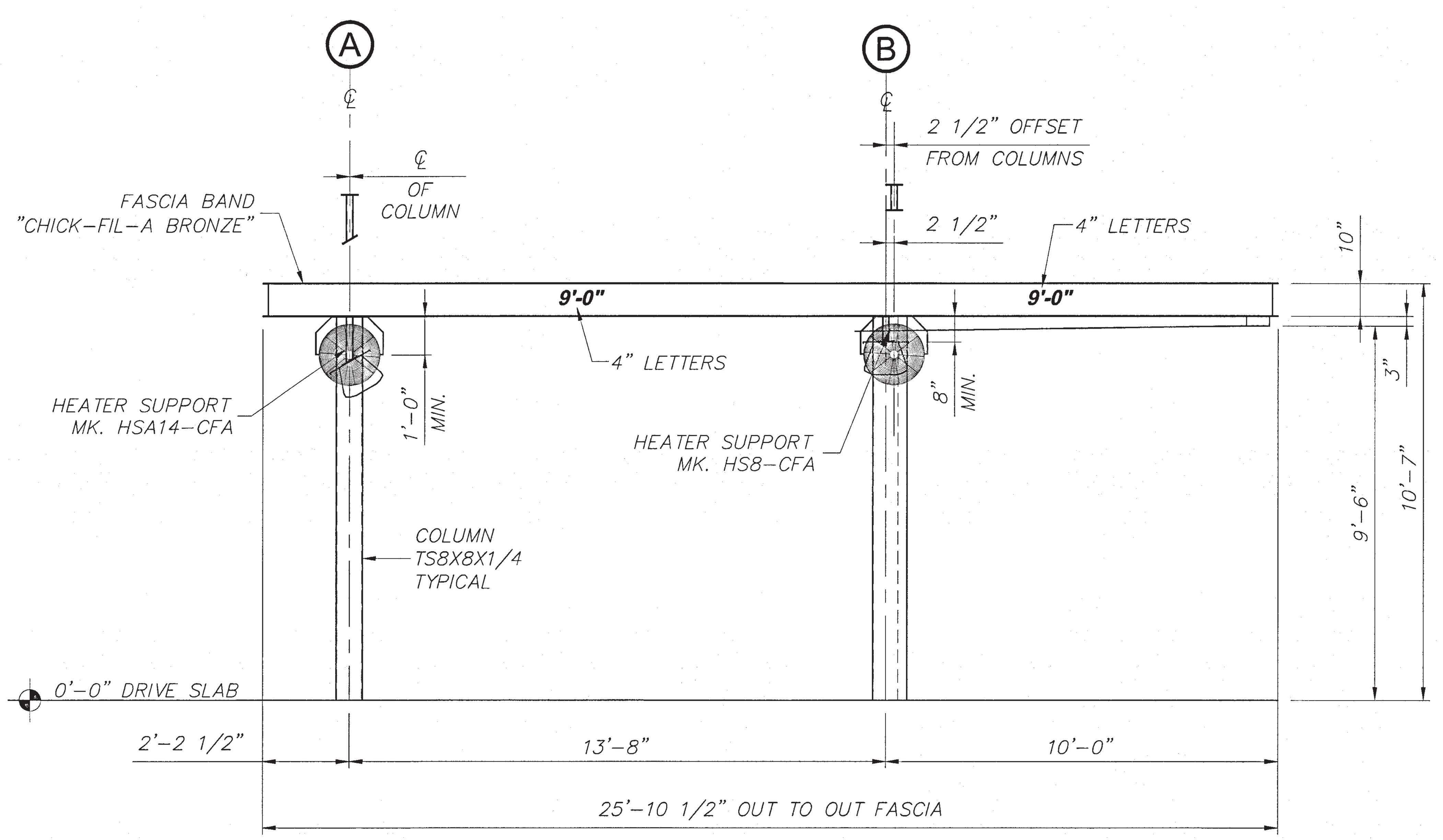
SHEET TITLE
CANOPY SECTIONS
25'-10 1/2" X 54'-1 1/2"

Job No. : LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
Checked By: RM

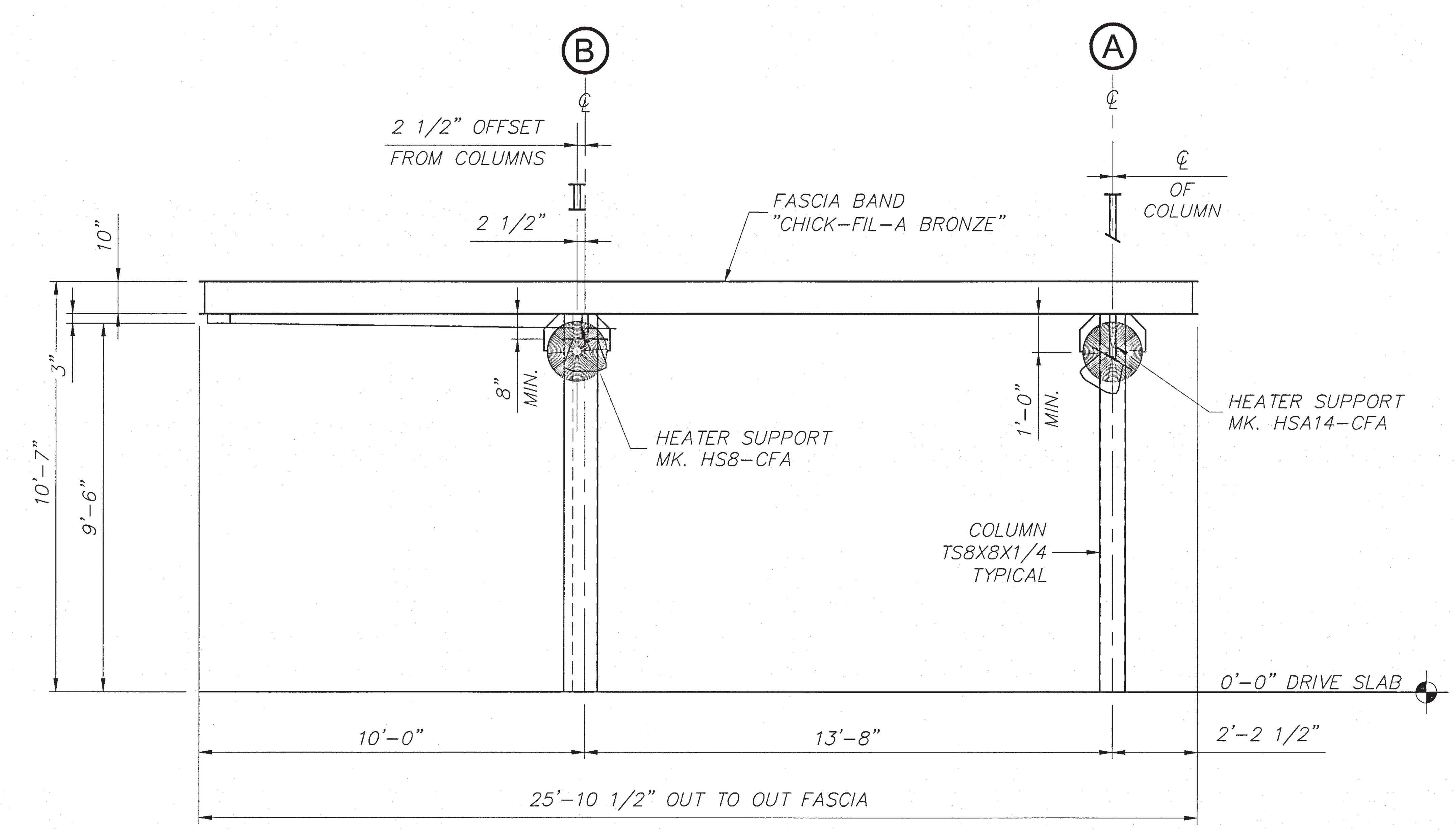
Sheet
F2FC-6
E4 OF 4



H1 CANOPY SIDE ELEVATION
3/8" = 1'-0" FI-ABI, FI-EI, FI-LLI



A1 CANOPY END ELEVATION
3/8" = 1'-0" FI-ABI, FI-EI, FI-LLI



A9 CANOPY END ELEVATION
3/8" = 1'-0" FI-ABI, FI-EI, FI-LLI

Chick-fil-A
5200 Buffington Rd.
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STATE OF MISSOURI
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SEP 07 2023

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ARLINGTON, TX. 76010
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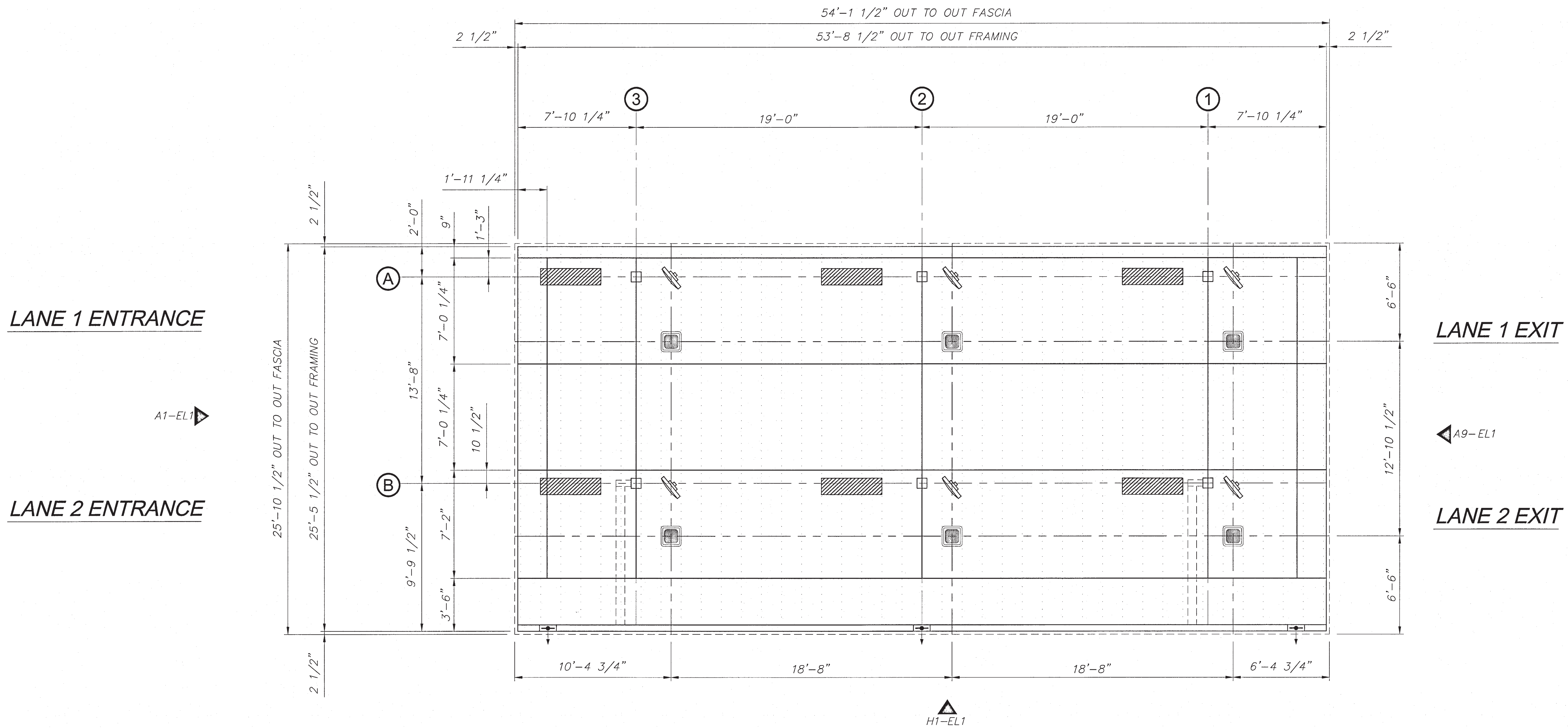
STORE
Chick-fil-A #02859
690 NW BLUE
PARKWAY.
LEE'S SUMMIT,MO
64086

SHEET TITLE
CANOPY ELEVATION PLAN
25'-10 1/2" X 54'-1 1/2"

Job No. : LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
Checked By: RM

Sheet
F2FC-7
EL1 OF 1



F1	CANOPY LIGHT LAYOUT
1/4" = 1'-0"	.

1. THE LIGHT LAYOUT IS A SUGGESTED PLAN ONLY. IT IS PROVIDED BY LANE AS A SERVICE TO ITS CUSTOMER AND IS TO BE USED AS A GUIDE ONLY.
2. THESE LIGHT FIXTURES NEED TO BE CENTERED IN DECK PANELS.
3. ENSURE ADEQUATE CLEARANCE FROM STRUCTURAL MEMBERS PRIOR TO CUTTING DECK.
4. INSTALLATION OF FIXTURES TO BE DONE IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS AND RECOMMENDATIONS.
5. IF LIGHTS INTERFERE WITH LEADER GUTTERS MOVE ROW LIGHTS TO THE NEXT DECK.

LEGEND:

INDICATES LSI CRUS-SC-LED-LW-30-CW-UE-WHT CANOPY DECK LIGHTS.

INDICATES DECK STITCHING.

MOUNTED FANS/HEATERS (BY OTHERS) RE: SHEET E3 FOR MOUNTING SUPPORT

INDICATES MOUNTED FAN

INDICATES MOUNTED HEATER

A1	GENERAL NOTES	A6	NOT USED	A10	NOT USED
N.T.S.	.	.	.	.	.

Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark Date By

Seal

STATE OF MISSOURI
RICHARD D. McCASKEY
E-2000164393
REGISTERED PROFESSIONAL ENGINEER

SEP 07 2023

C.O.A. 2001015838

LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PARKWAY.
LEE'S SUMMIT,MO
64086

SHEET TITLE

CANOPY LIGHT LAYOUT

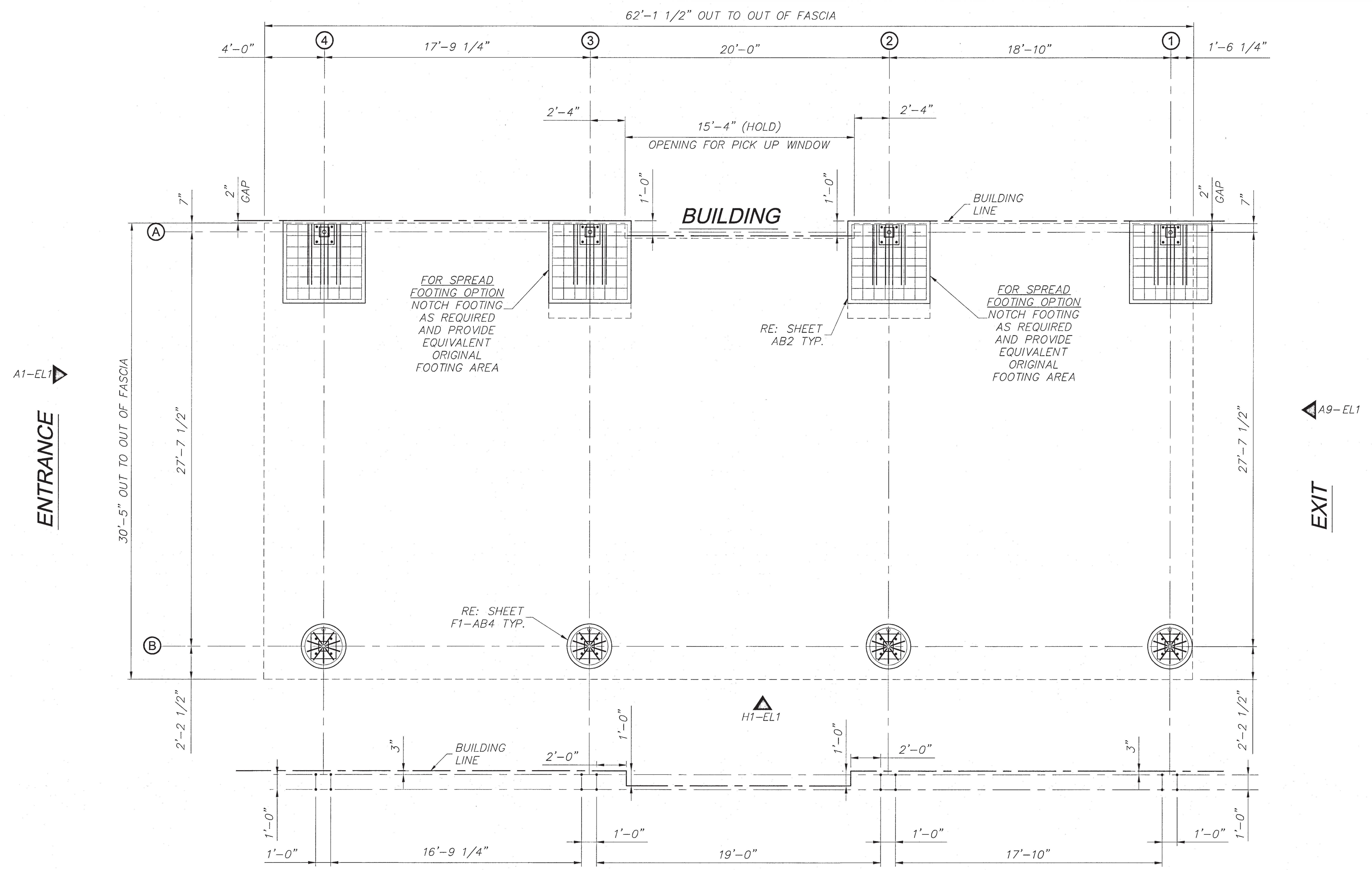
25'-10 1/2" X 54'-1 1/2"

Job No.: LSC: 75966
Store : 02859
Date : 8.30.23
Drawn By : RED
Checked By: RM

Sheet

F2FC-8

LL1 OF 1



F1 — COLUMN AND FOOTING LOCATIONS 5

1/4" = 1'-0"

A1 FOUNDATION NOTES

N.T.S.

1. ALL FOUNDATION WORK BY OTHERS AND SUBJECT TO LOCAL APPROVAL.
2. THE FOUNDATION DESIGN IS BASED UPON SECTION 1807.3.2.2-IBC 2018 EDITION . THE DESIGN CRITERIA SELECTED ASSUMES: SITE CLASS D MATERIAL OR BETTER, SOIL BEARING CAPACITY OF 1,500 p.s.f. AND A PASSIVE SOIL PRESSURE OF 100 p.s.f. PER FOOT OF DEPTH.
3. DRILLED SHAFT FOOTINGS SHALL BE INSTALLED PER ACI STD. 336.
4. CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI STANDARD 318-14 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (F'C) AT THE END OF 28 DAYS SHALL BE 3,000 PSI MIN.
6. REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 LATEST REVISION.
7. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING BARS SHALL COMPLY WITH ACI 315, ACI 318 AND CRSI STANDARDS.
8. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554-GR36.
9. LANE IS NOT RESPONSIBLE FOR FOOTING POURED PRIOR TO PERMITTING.
10. FOOTINGS ARE DESIGNED TO BE CONSTRAINED AT THE TOP BY A 6" SLAB. IF THEY ARE NOT, PLEASE NOTIFY LANE SUPPLY CO.
11. POUR FOOTINGS TO SAME TOP ELEVATION.
12. USE MASTER FLOW 928 NON-SHRINK GROUT OR EQUIVALENT F'm=5000 p.s.i.
13. G.C. TO ENSURE THAT FOOTINGS DO NOT INTERFERE WITH UNDERGROUND UTILITIES

A5 GENERAL NOTES

N.T.S.

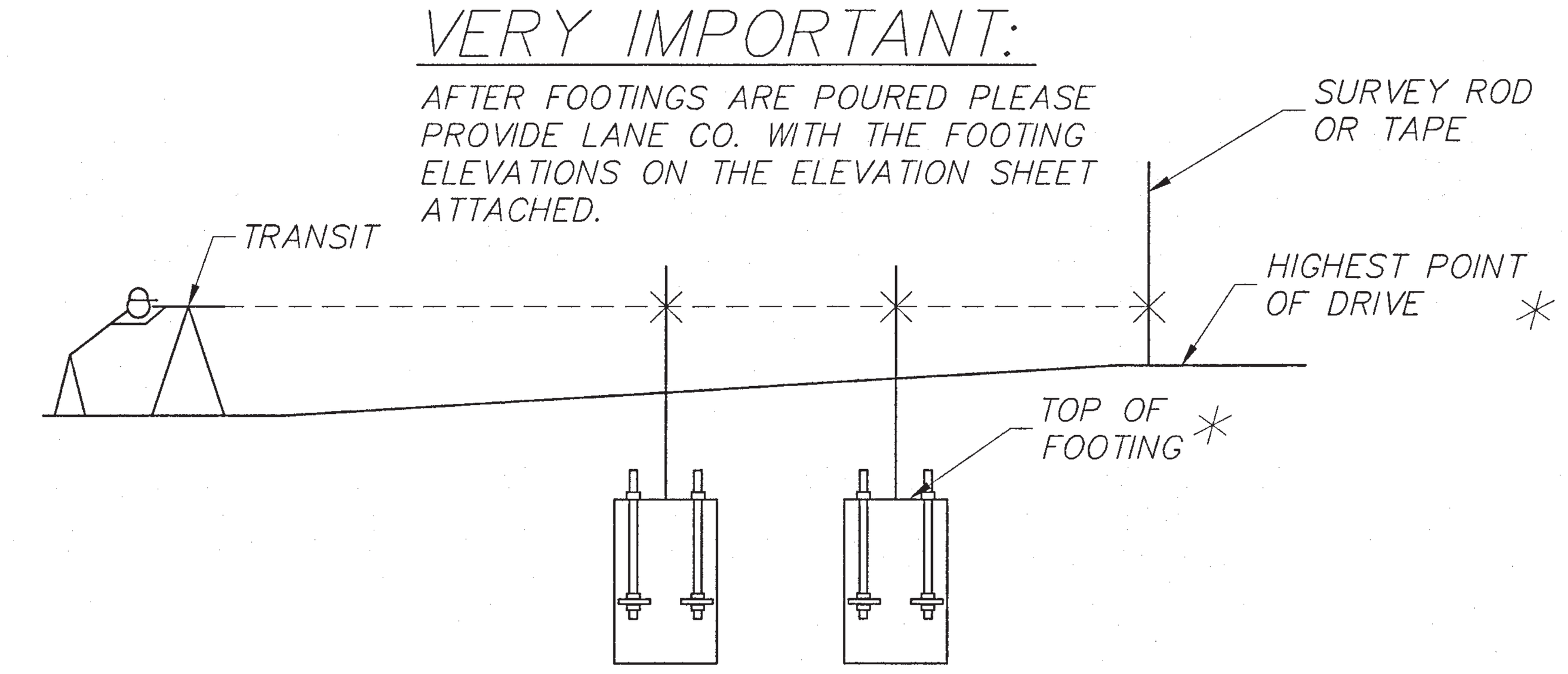
1. TOP OF ALL CANOPY FOOTINGS ARE TO BE POURED A MINIMUM OF 24" BELOW FINISHED GRADE OR AS REQUIRED BY LOCAL CODES AND ORDINANCES.
2. IT IS THE OWNERS RESPONSIBILITY TO CONVEY TO ALL CONTRACTORS THAT IT IS THEIR RESPONSIBILITY TO INSURE THAT THE SITE IS PROPERLY EXCAVATED AND GRADED. DURING CONCRETE FORMING PRIOR TO AND AFTER THE POUR, THE CONCRETE SHOULD BE CHECKED FOR PROPER ELEVATION, SQUARE AND CORRECT DIMENSIONS.
3. MEASUREMENTS FOR ANCHOR BOLTS ARE EXACT AND SHOULD BE RECHECKED TO INSURE PROPER LOCATION.
4. CORRECTION OF LOCATION, OF ELEVATION AND OF DIMENSIONAL ERRORS MUST BE MADE PRIOR TO THE ARRIVAL OF THE ERECTION CREW AND PRIOR TO THE ERECTION OF THE STRUCTURE.
5. AFTER THE FORMS HAVE BEEN REMOVED, ALL TRENCHES, HOLES AND UNEVEN SITE CONDITIONS MUST BE LEVELED TO INSURE A SAFE WORKING AND ACCESS AREA ACCEPTABLE TO LOCAL, STATE, FEDERAL AND OSHA AGENCIES.

A9 FOOTING ELEVATIONS

N.T.S.

VERY IMPORTANT:

AFTER FOOTINGS ARE POURED PLEASE PROVIDE LANE CO. WITH THE FOOTING ELEVATIONS ON THE ELEVATION SHEET ATTACHED.



* MUST PROVIDE THIS INFORMATION.

A14 DESIGN LOADS

N.T.S.

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM- ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f.
Ce = 1.2
Ct = 1.2
Is = 1.0
W = 4.92
Pd = 20.44
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 1.43 KIPS

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia, 30349-2998

Revisions:

Mark	Date	By
5	7/15/24	IP
ADDED OFFSET FOOTING		

Seal: STATE OF MISSOURI — RICHARD McCASKEY — E-2000164393 — PROFESSIONAL ENGINEER

JUL 17 2024

C.O.A. 2001015838

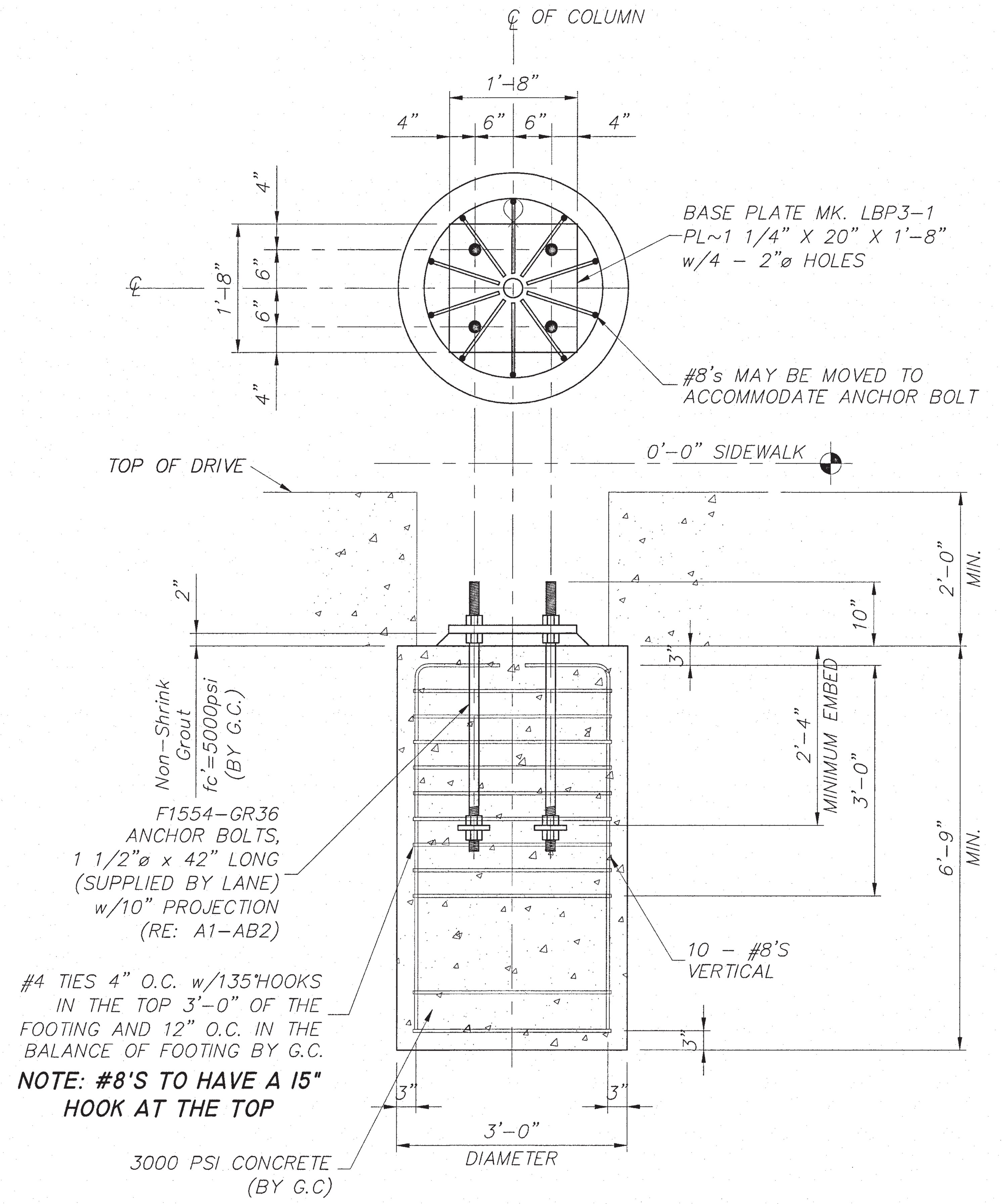
LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

SHEET TITLE
CANOPY FOOTING LOCATIONS
30-5" X 62'-1 1/2"

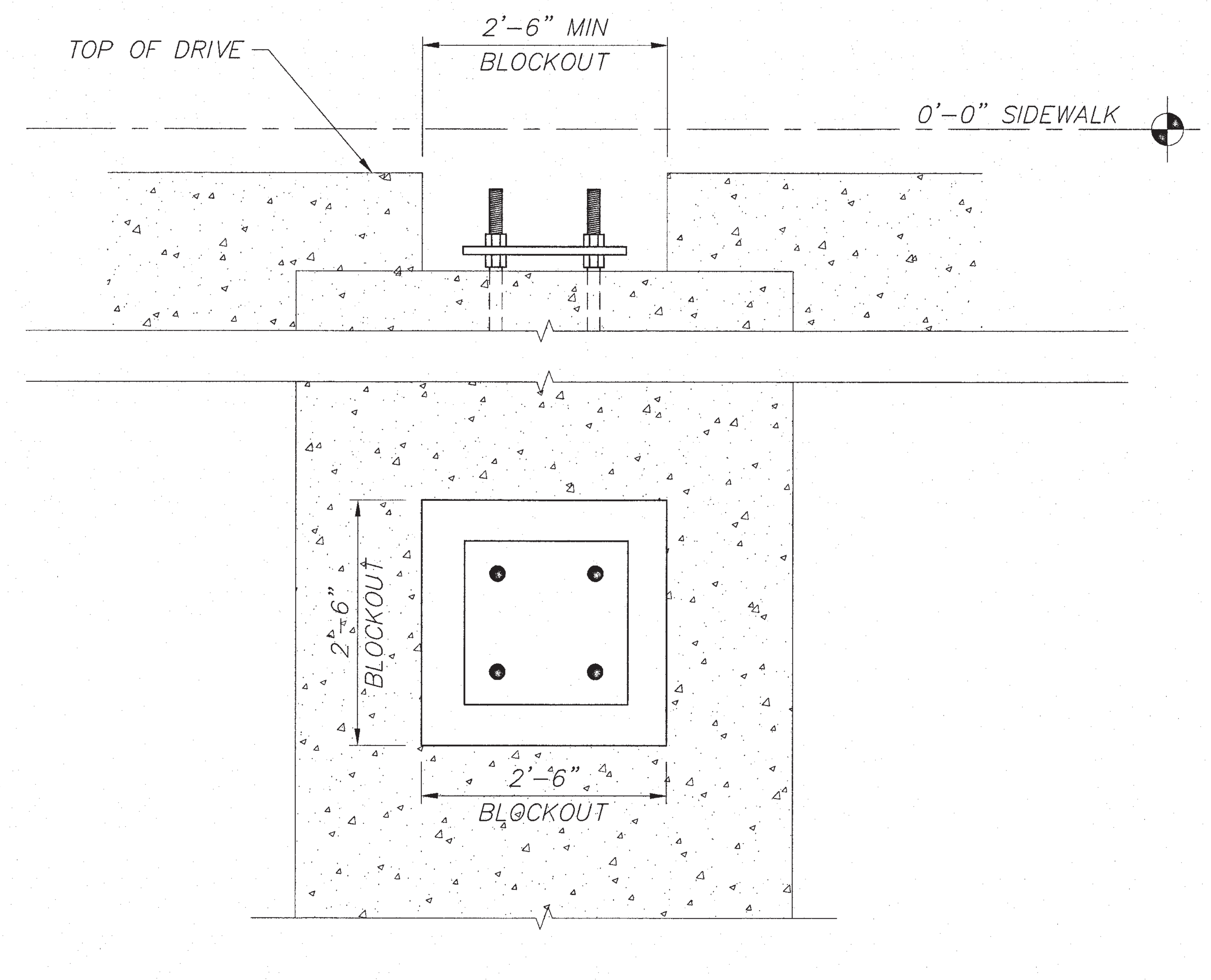
Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

Sheet
OMD-1
AB1 OF 4



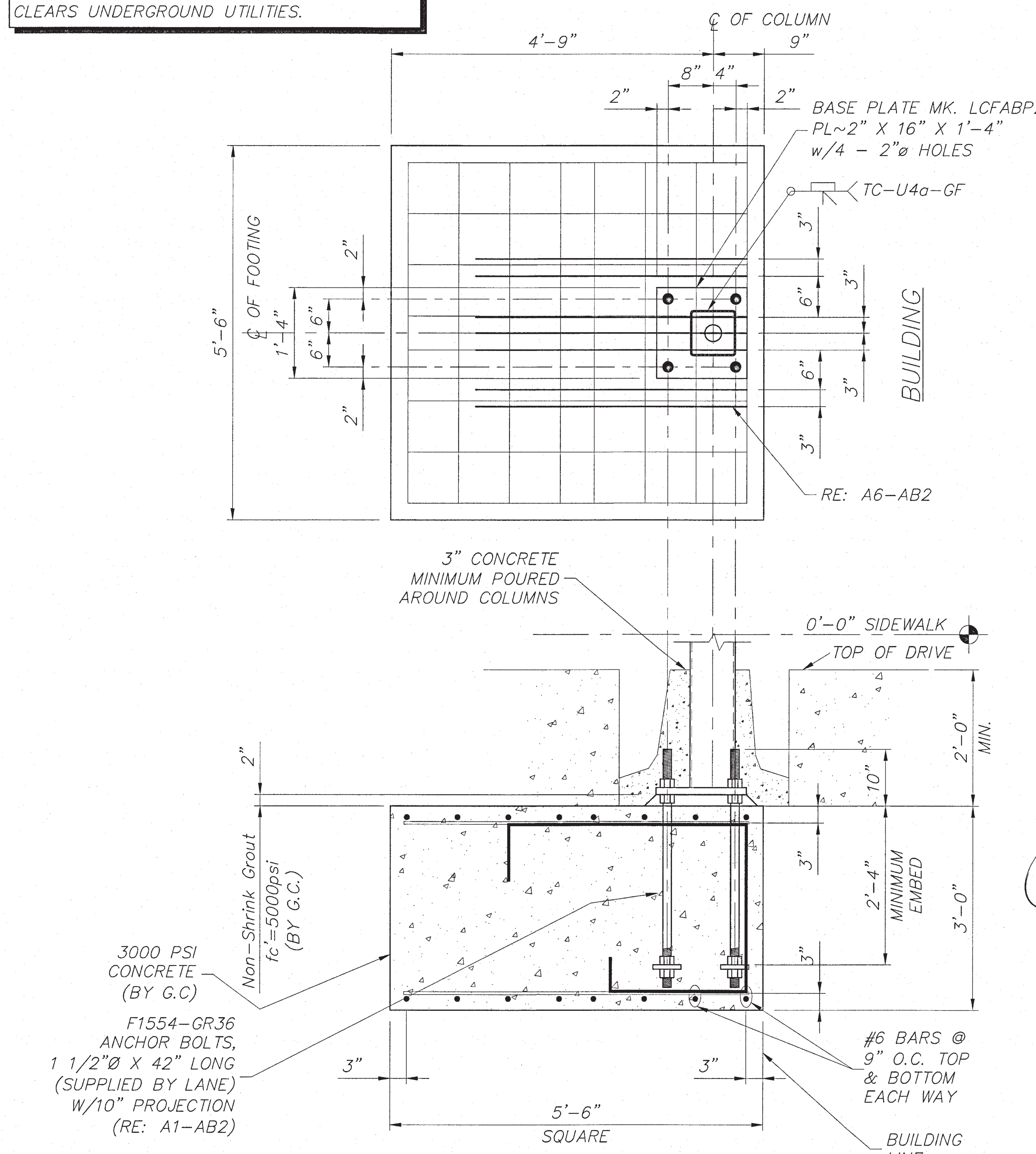
FOOTING DESIGN TO ALLOW OFFSET COLUMN PLACEMENT OF 1'-9" FROM CENTERLINE OF FOOTING

F1	ROUND FOOTING OPTION
N.T.S	F1-AB1



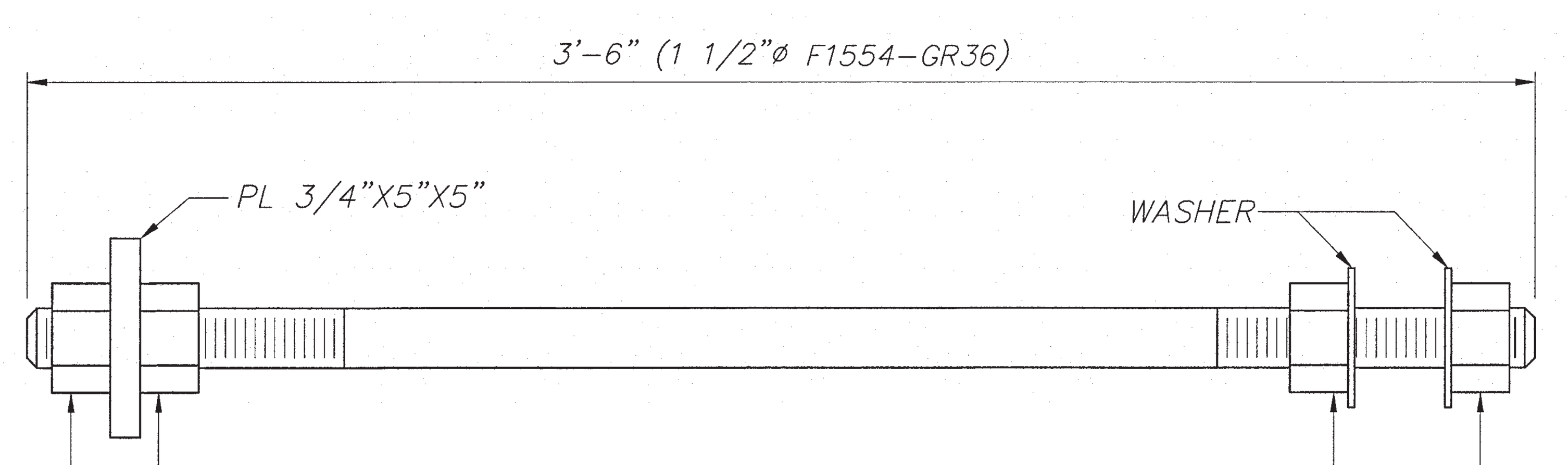
F6	BLOCKOUT FOR ANCHOR BOLTS
N.T.S	.

NOTE: G.C. TO VERIFY THAT TOP OF FOOTING CLEARS UNDERGROUND UTILITIES.



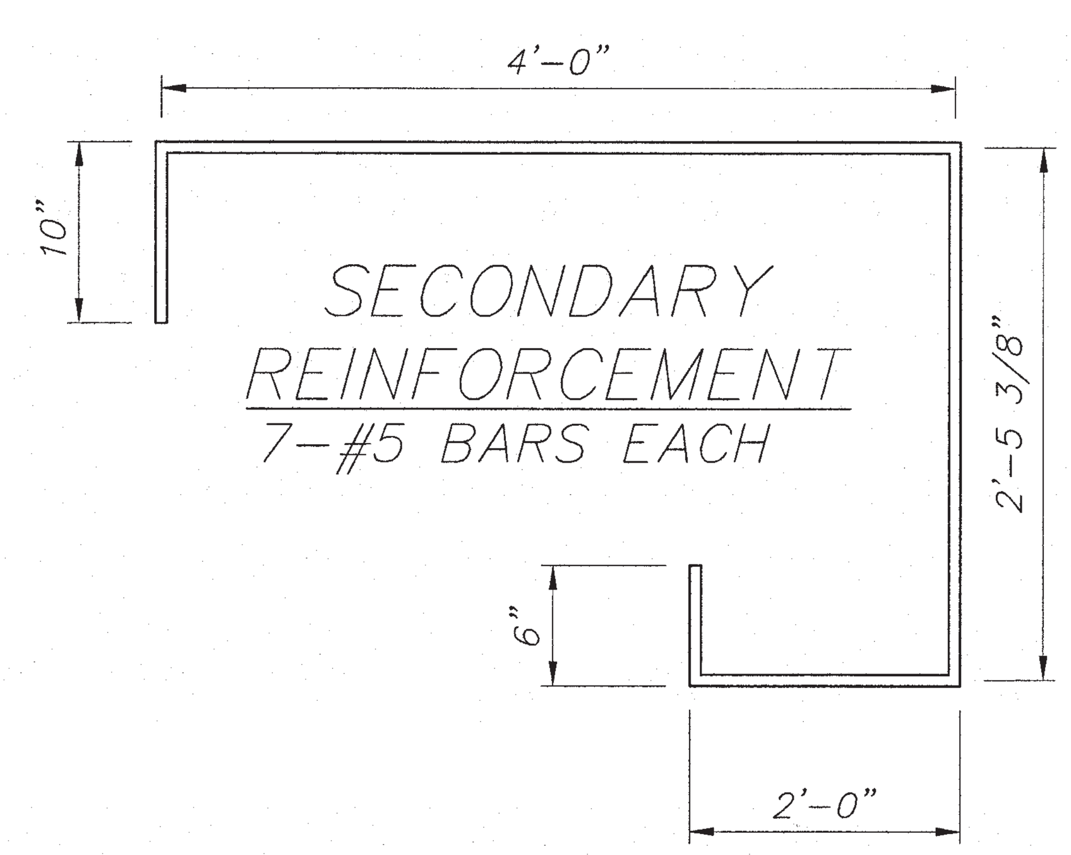
*NOTE: FOOTING @ 90° FROM F1-AB1

F11	SPREAD FOOTING OPTION
N.T.S	F1-AB1



ANCHOR BOLT TO BE THREADED 10" EACH END MINIMUM
ANCHOR BOLT MAY BE THREADED IN ITS ENTIRETY
ANCHOR BOLT SUPPLIED BY LANE SUPPLY, INC

A1	ANCHOR BOLT DETAIL
N.T.S.	F1-AB2, F11-AB2



A6	SECONDARY REINFORCEMENT
N.T.S	F11-AB2

A10	NOT USED
.	.

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
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SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
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LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM- ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f.
Ce = 1.2
Ct = 1.2
Is = 1.0
W = 4.92
Pd = 20.44
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 1.43 KIPS

A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia, 30349-2998

Revisions:

Mark	Date	By
5	7/15/24	IP
	ADDED OFFSET FOOTING	

Seal
STATE OF MISSOURI
RICHARD D McASKEY
PE-2000164393
PROFESSIONAL ENGINEER
JUL 17 2024

C.O.A. 2001015838

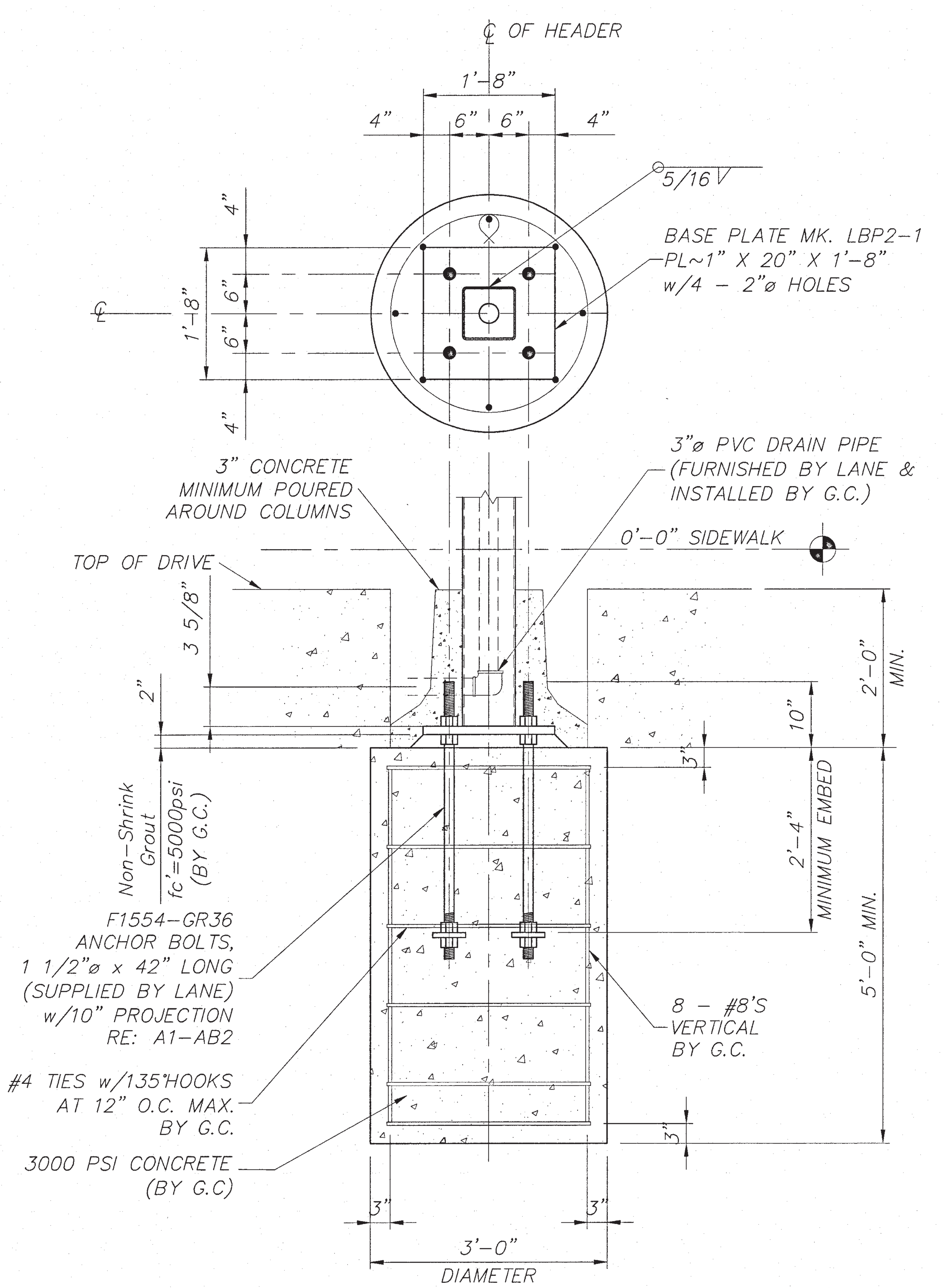
LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086

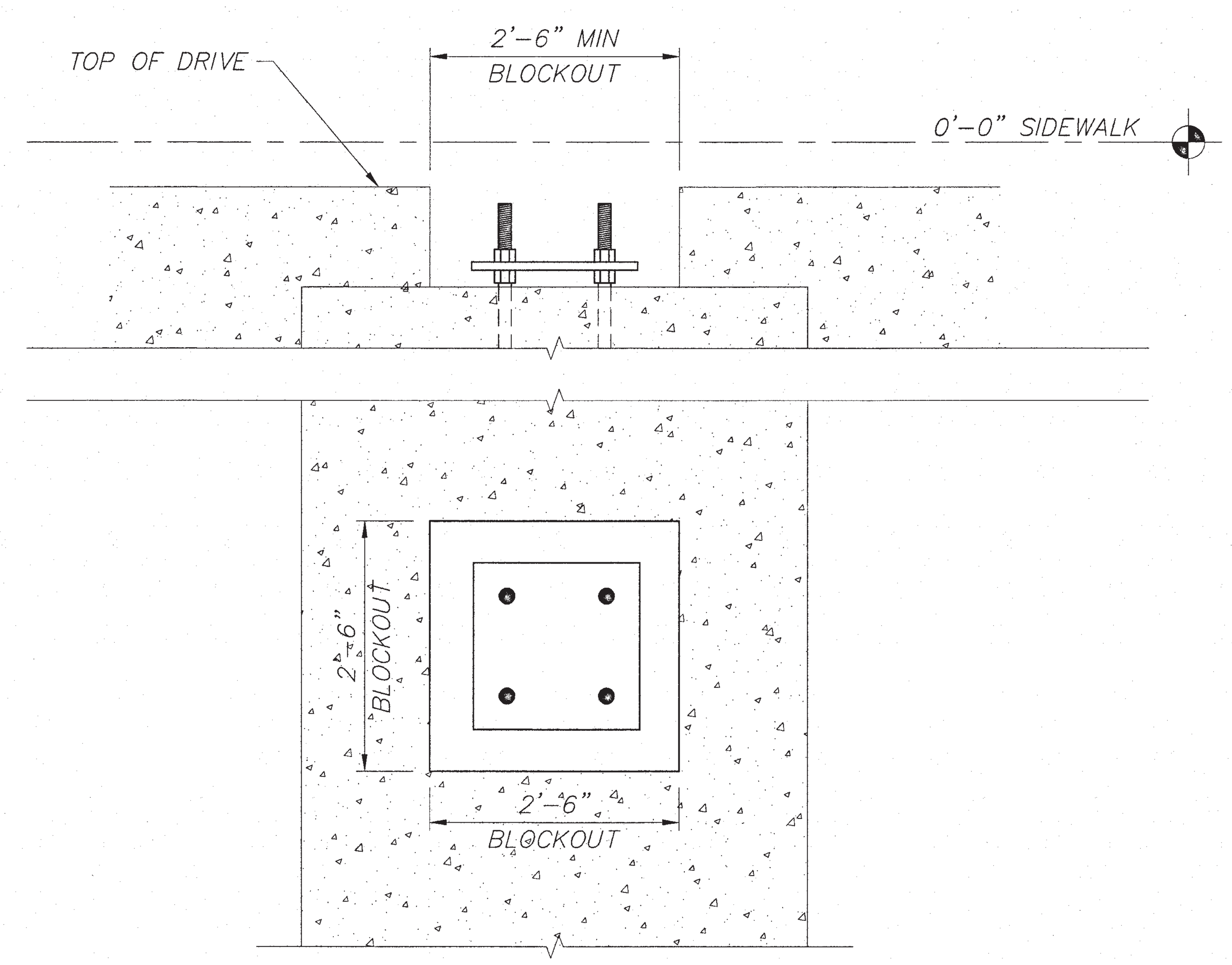
SHEET TITLE
CANOPY FOOTINGS
30-5" X 62'-1 1/2"

Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

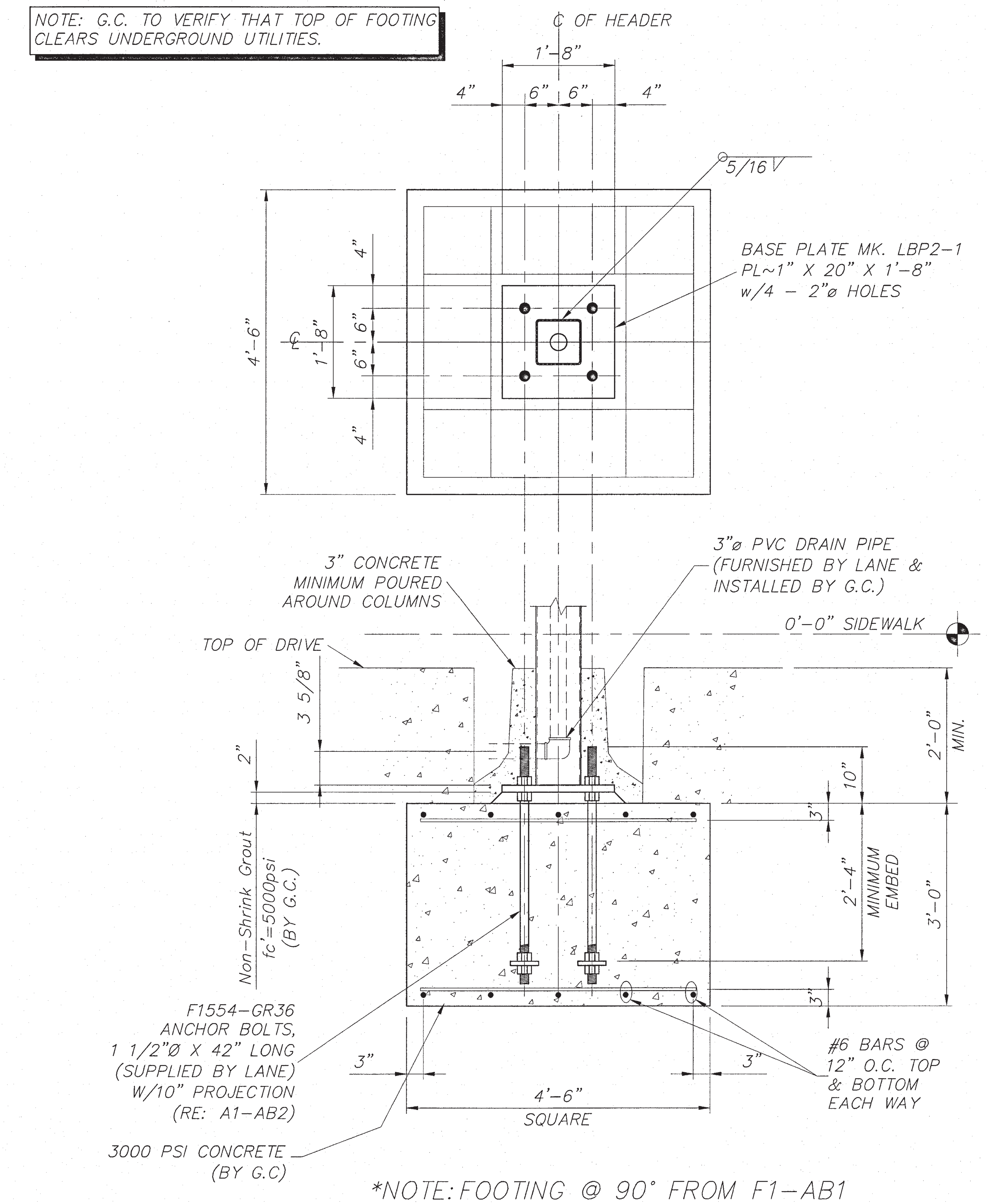
Sheet
OMD-2
AB2 OF 4



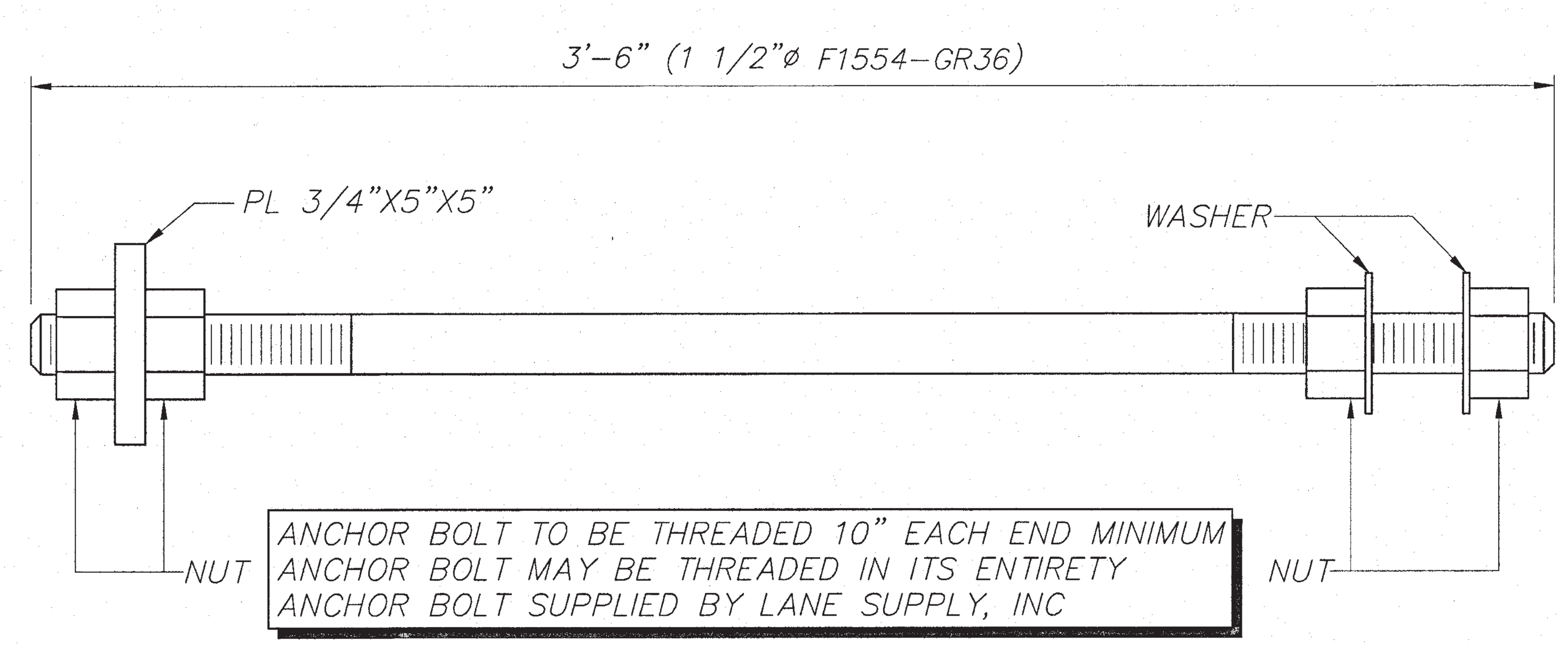
F1	ROUND FOOTING OPTION
N.T.S	F1-AB1



F6	BLOCKOUT FOR ANCHOR BOLTS
N.T.S	.



F11	SPREAD FOOTING OPTION
N.T.S	F1-AB1



A1	ANCHOR BOLT DETAIL
N.T.S.	F1-AB2, F11-AB2

A6	NOT USED
.	.

A10	NOT USED
.	.

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A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
5	7/15/24	IP
ADDED OFFSET FOOTING		

Seal
STATE OF MISSOURI
RICHARD MCCASKEY
E-2000164393
LICENSED PROFESSIONAL ENGINEER
JUL 17 2024

C.O.A. 2001015838

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120 FAIRVIEW
ARLINGTON, TX. 76010
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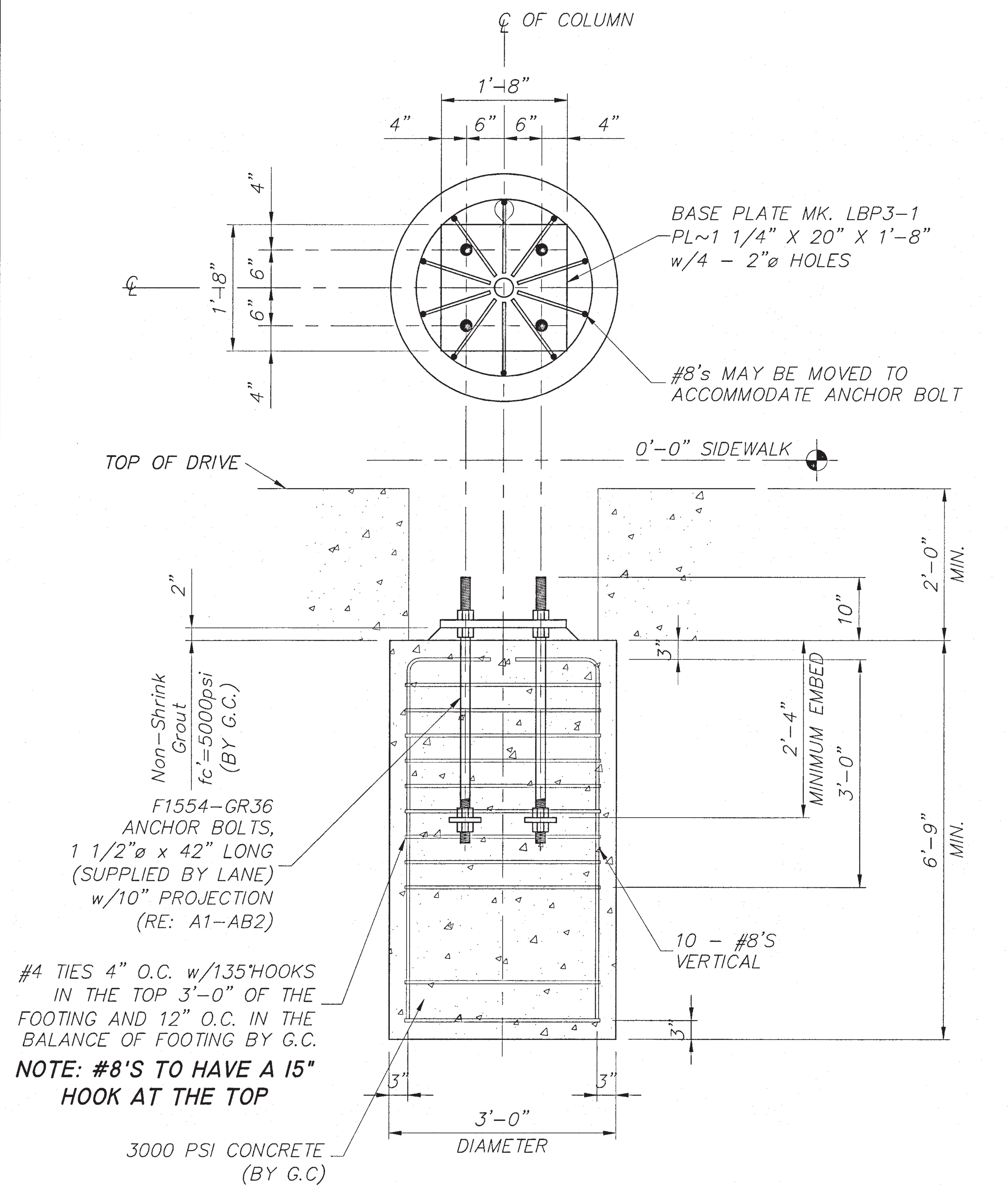
SHEET TITLE
CANOPY FOOTINGS
30-5" X 62'-1 1/2"

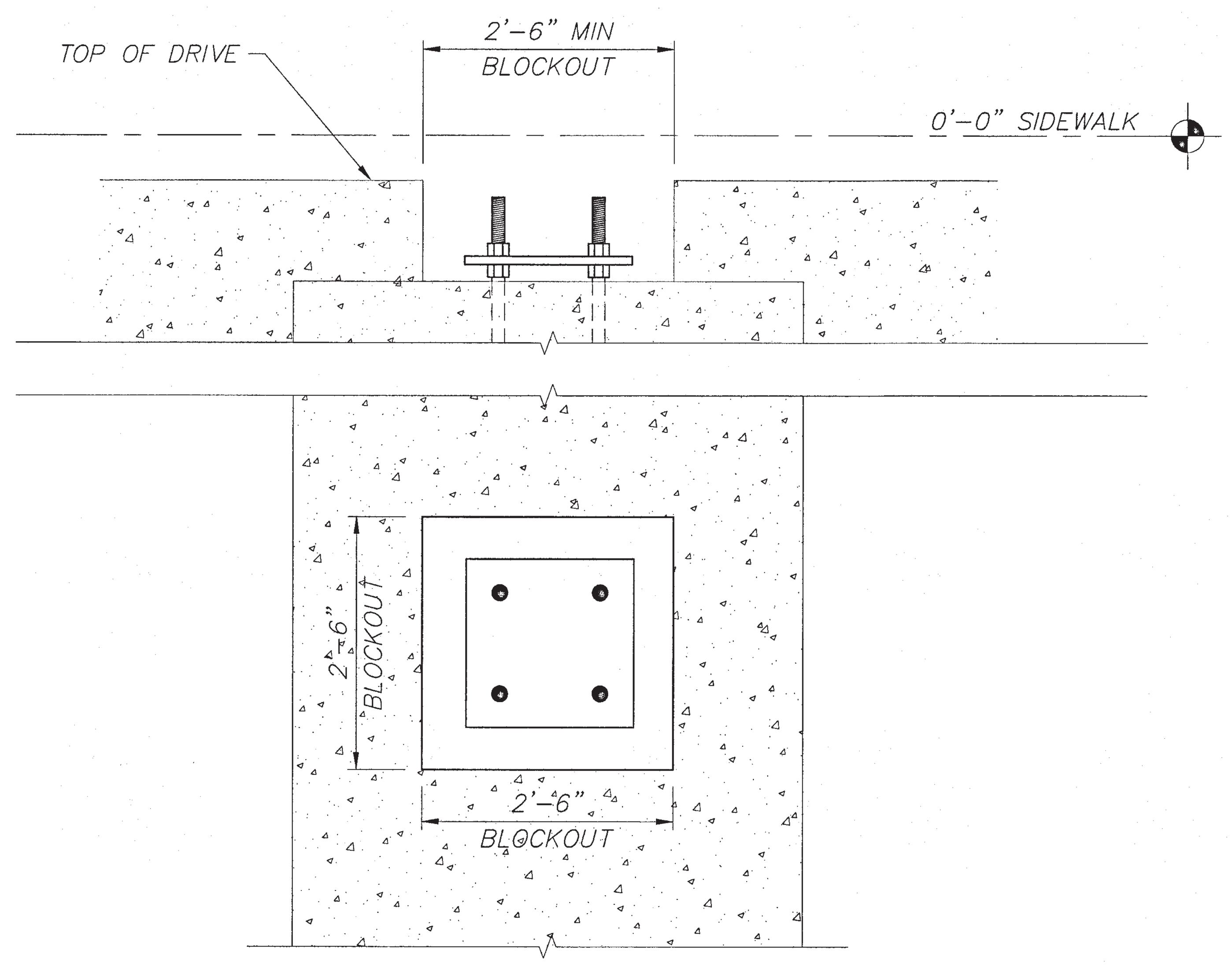
Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

Sheet
OMD-3
AB3 OF 4



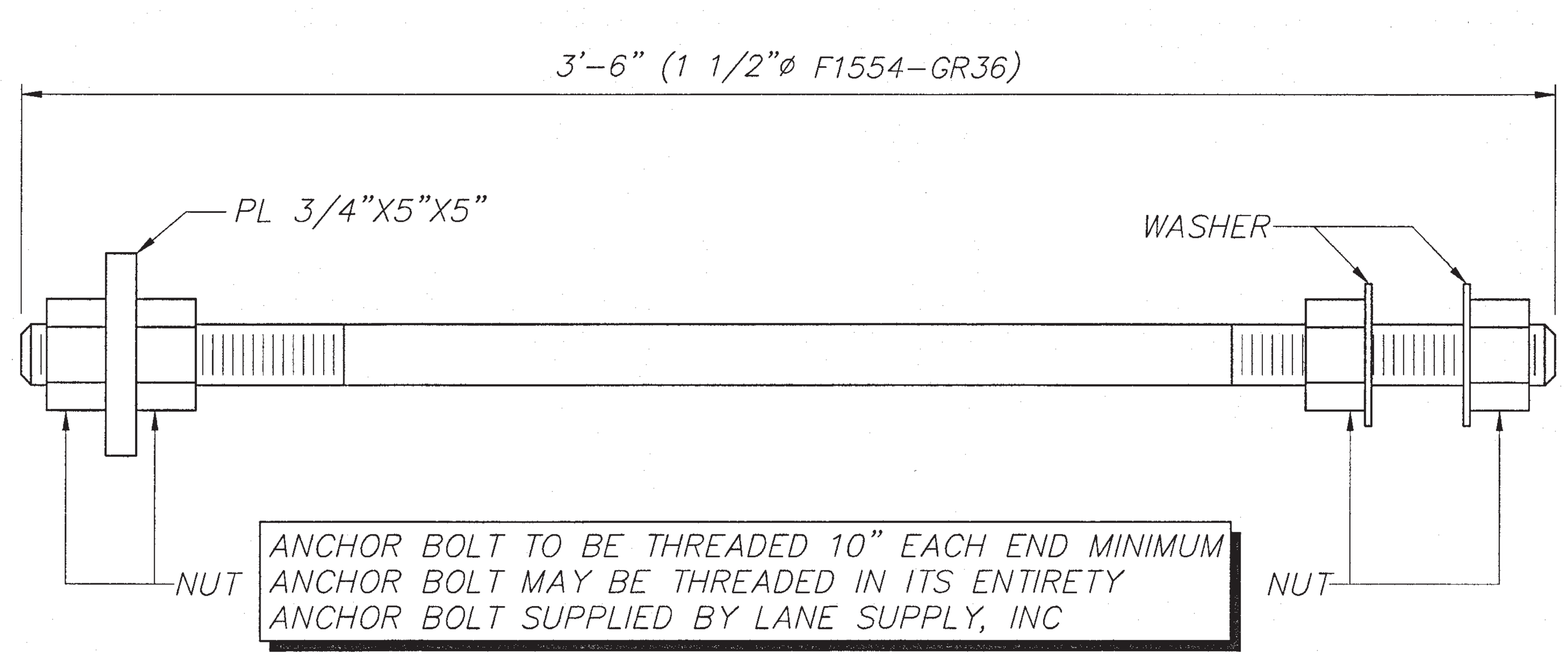
FOOTING DESIGN TO ALLOW OFFSET COLUMN PLACEMENT OF 1'-9" FROM CENTERLINE OF FOOTING

F1	ROUND FOOTING
N.T.S	F1-AB1



F6	BLOCKOUT FOR ANCHOR BOLTS
N.T.S	.

F11	NOT USED
N.T.S	.



A1	ANCHOR BOLT DETAIL
N.T.S.	F1-AB2, F11-AB2

A6	NOT USED
.	.

A10	NOT USED
.	.

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A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Rd.
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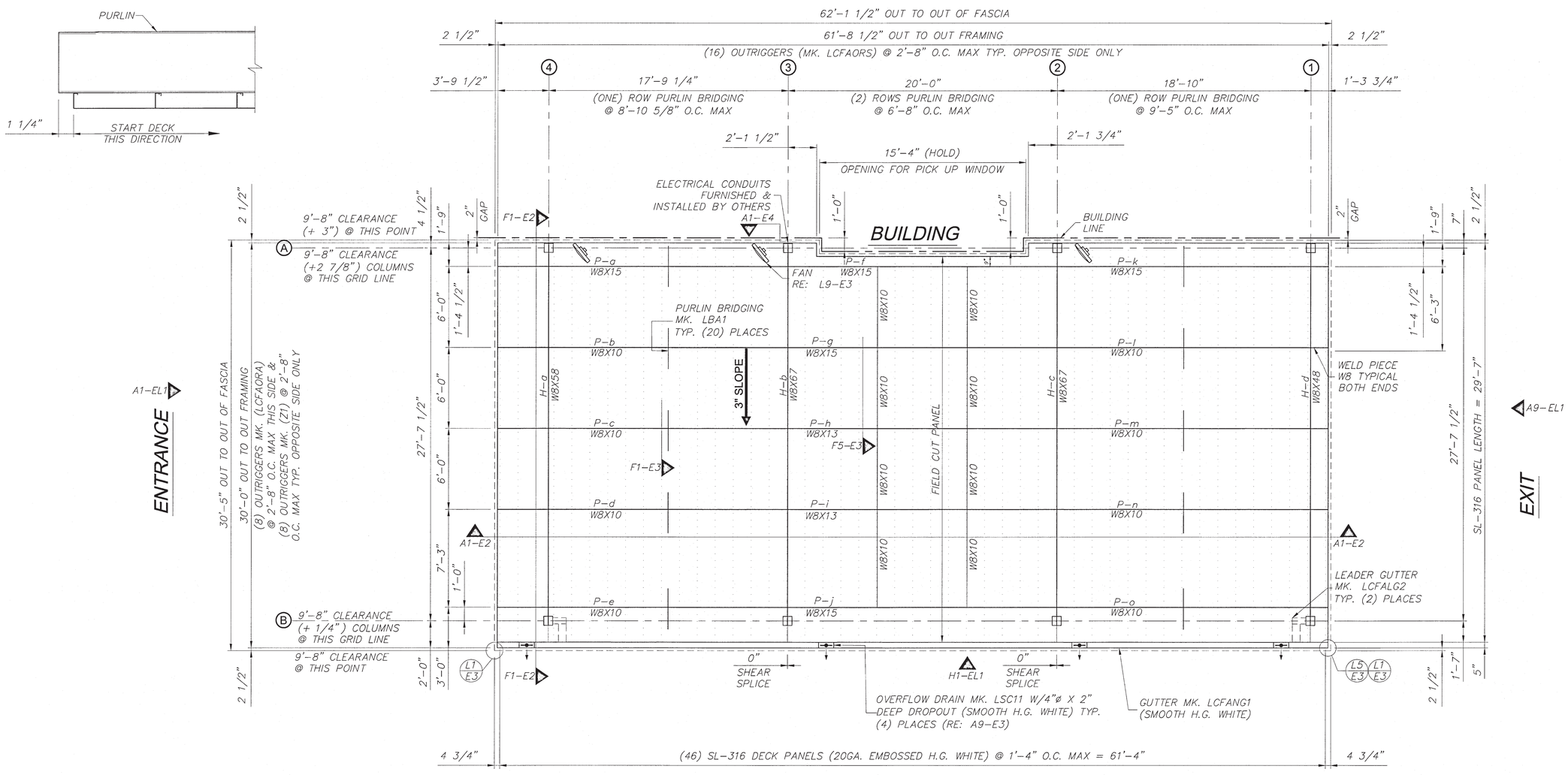
LEE'S SUMMIT, MO
64086

SHEET TITLE
CANOPY FOOTINGS
30-5" X 62'-1 1/2"

Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

Sheet 5
OMD-4
AB4 OF 4



F1 CANOPY FRAMING LAYOUT

1/4" = 1'-0"

STRUCTURAL STEEL SHALL MEET THE AISC 2017 SPECIFICATION 15TH EDITION AND THE AISC CODE OF STANDARD PRACTICE, CURRENT VERSION.
COLUMNS TO BE ASTM A500, GRADE B
BOLTS TO BE ASTM A325 OR ASTM F1852 (A325-TC)
INSTALLATION OF BOLTS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION-DEFINED AS THE CONDITION THAT EXISTS WHEN ALL OF THE PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

WIDE FLANGE BEAMS TO BE ASTM A992
ANGLES, & PLATES TO BE ASTM A36
REINFORCING STEEL TO BE ASTM 615, GRADE 60
DECK PANELS TO BE ASTM 653, GRADE C MINIMUM
WELD FILLER METALS SHALL MEET THE MINIMUM CHARPY V-NOTCH REQUIREMENT OF 20 FT-LB AT 0°F WELDING SHALL MEET THE REQUIREMENTS OF THE AWS FOR BUILDING CONSTRUCTION USING E70XX ELECTRODES
ALL STRUCTURAL STEEL TO BE PAINTED WITH ONE SHOP COAT PRIMER
CANOPY FABRICATOR SHALL BE AISC CERTIFIED
LANE SUPPLY INC. IS AN AISC CERTIFIED FABRICATOR (AISC # C-00022431)

A1 GENERAL NOTES

N.T.S.

1. REFERENCE SEALANT SCHEDULE FOR ALL APPLICATIONS
2. SEAL ALL JOINTS WITH A SMOOTH, CLEAN APPLICATION
3. APPLY CAULK CLEAR AROUND THE COLUMNS ON THE TOP SIDE OF THE DECK AFTER BOTTOM SIDE HAS BEEN CAULKED.
4. DECK PANELS AND TRIM WILL BE WIPED CLEAN AFTER INSTALLATION
5. ALL TRASH AND EXTRA MATERIALS WILL BE HAULED OFF JOBSITE
6. CHECK WITH GENERAL CONTRACTOR FOR DRAIN ORIENTATION
7. FURNISH & INSTALL LANE DESIGNED AND ENGINEERED "HUNG" DECK
8. FURNISH & INSTALL SUPPORT FRAMING FOR (3) FANS (FANS FURNISHED & INSTALLED BY OTHERS.)
9. FURNISH & INSTALL (6) LSI CRUS-CS-LED-LW-30-UE-WHT CANOPY DECK LIGHTS.
10. FURNISH & INSTALL SHEET METAL FASCIA "CHICK-FIL-A BRONZE".

SEALANT SCHEDULE

SEALANT	COLOR	APPLICATION
SOUDASEAL FC	WHITE	DECK TO COLUMN @ BOTTOM
SOUDASEAL FC	WHITE	GUTTER JOINTS
SOUDASEAL FC	WHITE	DECK TO COLUMN @ TOP
SOUDASEAL FC	WHITE	SEAL @ OVERFLOW DROPOUTS
SOUDASEAL FC	WHITE	SEAL BOLTS @ HEATER SUPPORTS
SOUDASEAL FC	WHITE	DAM UP DECK @ DECK CLOSURE
SOUDASEAL FC	WHITE	SEAL FASCIA @ DECK CLOSURE

A6 ERECTOR'S NOTES

N.T.S.

A11 NOT USED

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
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A14 DESIGN LOADS

N.T.S.

Chick-fil-A
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Mark	Date	By
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SHEET TITLE
CANOPY FRAMING PLAN
30-5" X 62'-1 1/2"

Job No.: LSC: 75967
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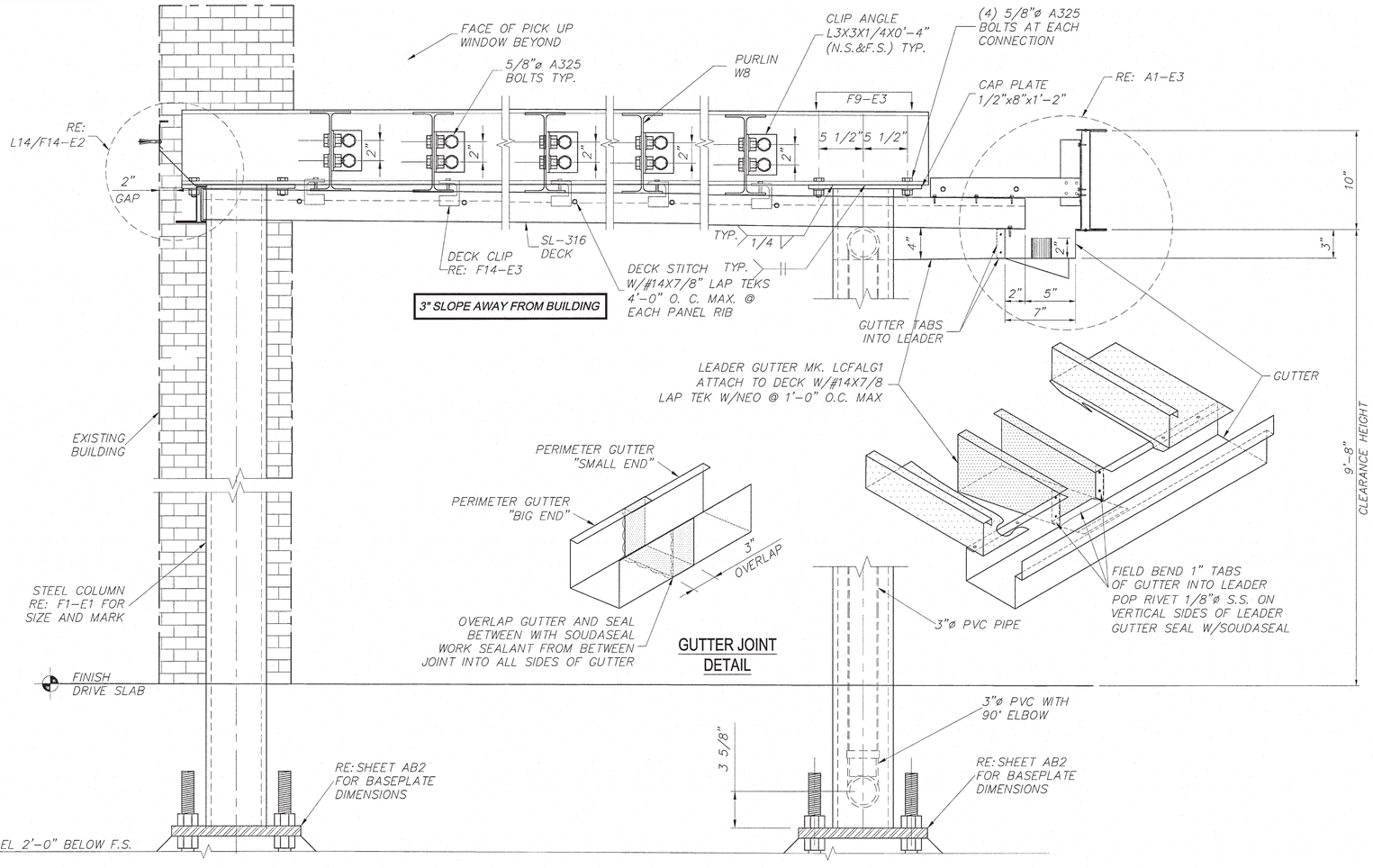
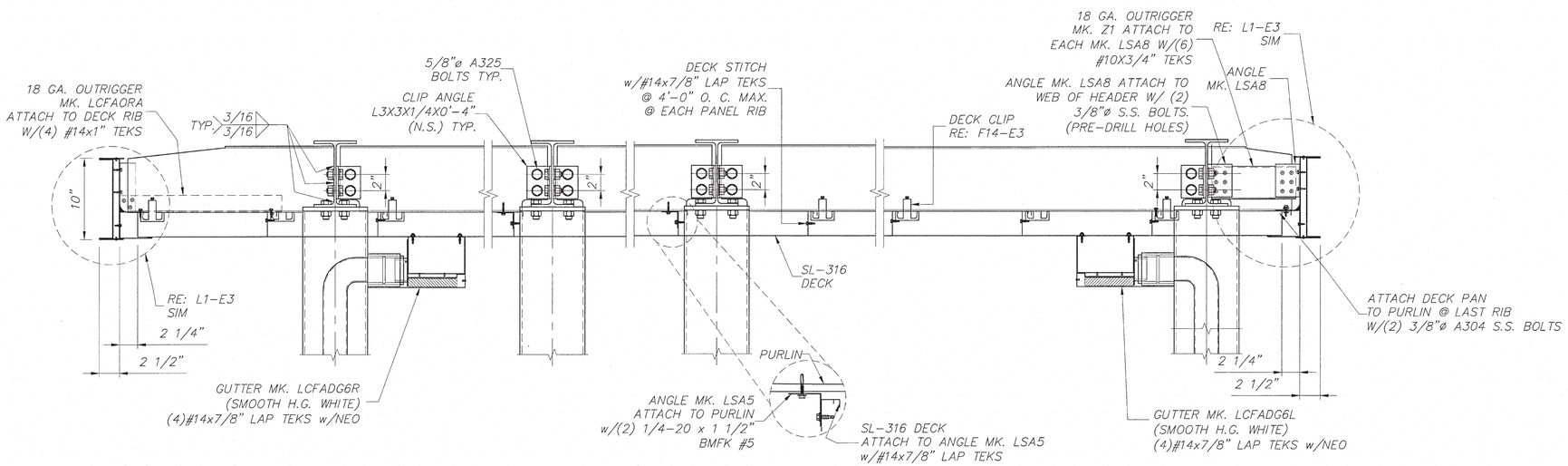
E1 OF 4



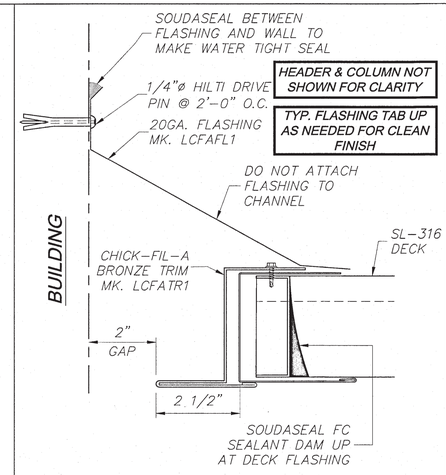
FI CANOPY SECTION

1 1/2" = 1'-0" | FI-EI



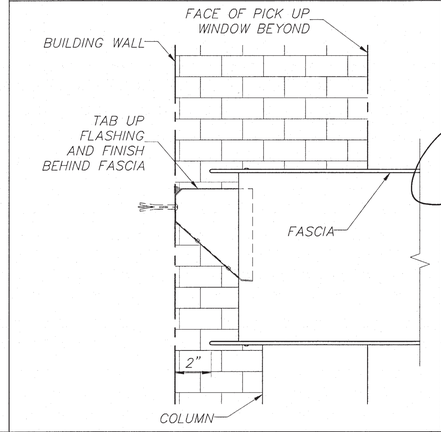
AI CANOPY SECTION

1 1/2" = 1'-0" | FI-EI



L14 SECTION AT FASCIA

N.T.S. | FI-E2



FI4 DETAIL AT FLASHING TERMINATION

N.T.S. | FI-E2

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018 ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f.
Ce = 1.2
Ct = 1.2
Is = 1.0
W = 4.92
Pd = 20.44
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 1.43 KIPS

AI4 DESIGN LOADS

N.T.S. | .

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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STATE OF MISSOURI
RICHARD MICHAEL CASKEY
E-2000163393
REGISTERED PROFESSIONAL ENGINEER

JUL 17 2024

C.O.A. 2001015838

LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PKWY
LEE'S SUMMIT, MO
64086

SHEET TITLE
CANOPY SECTIONS
30'-5" X 62'-1 1/2"

Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

Sheet
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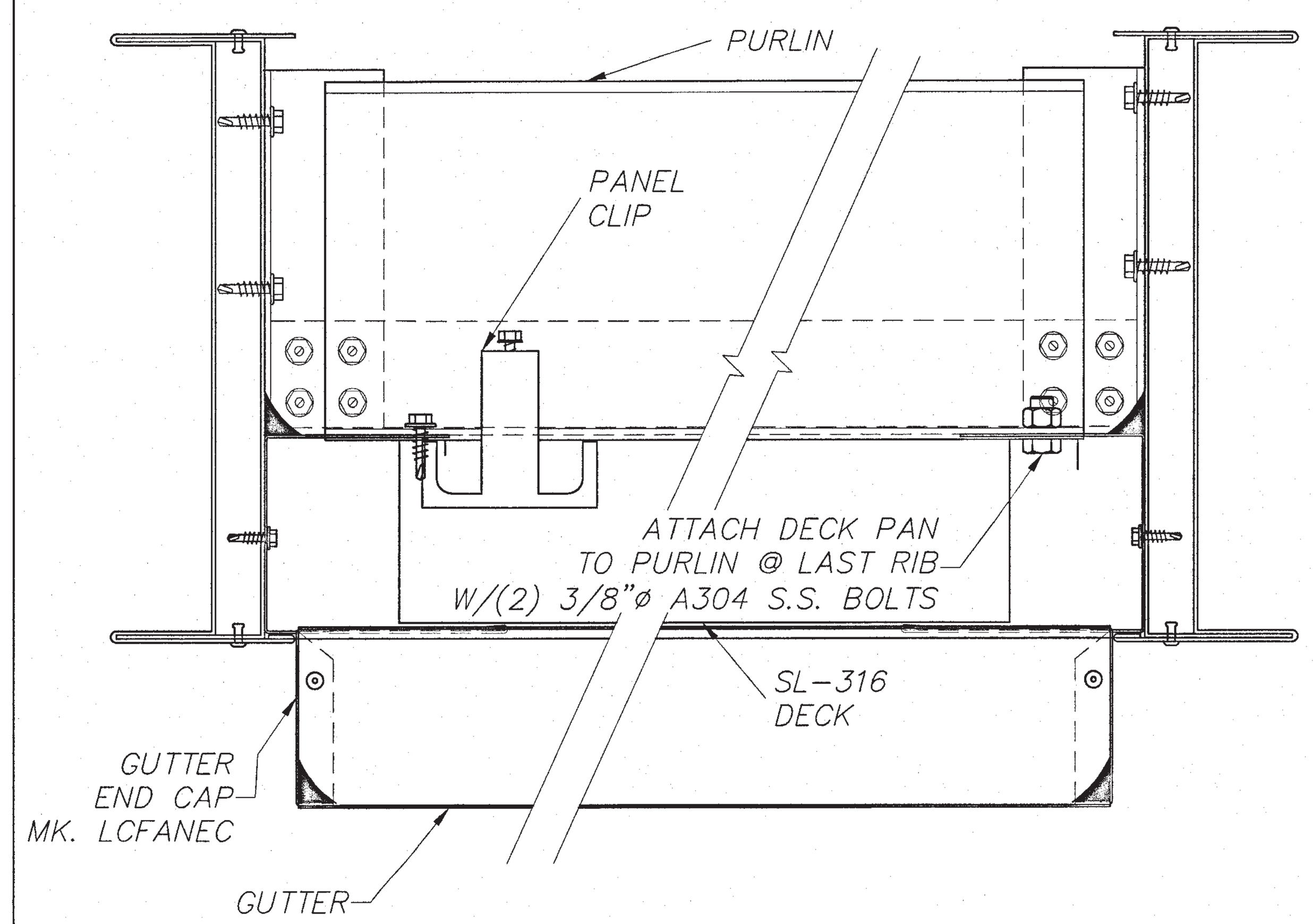
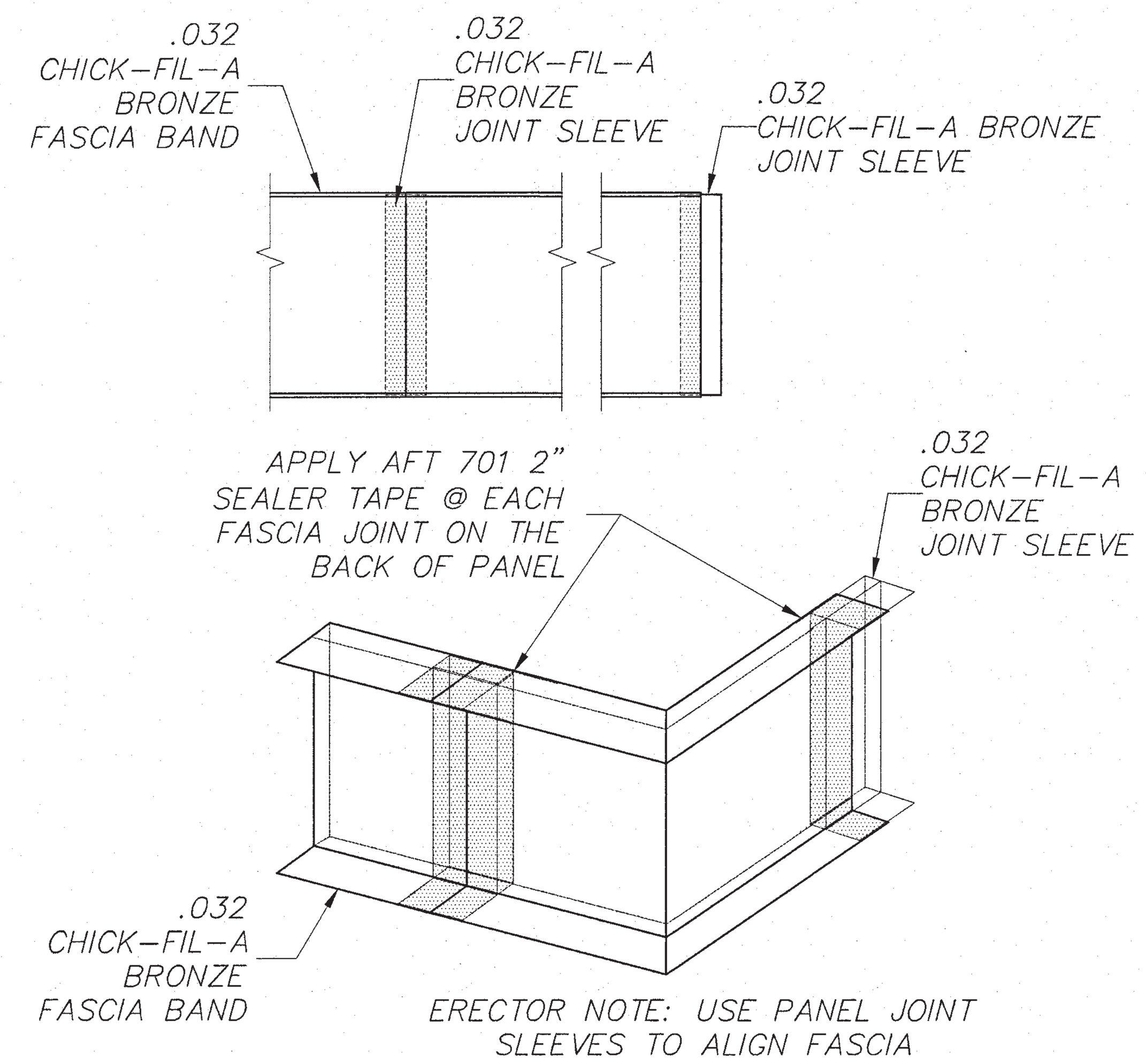


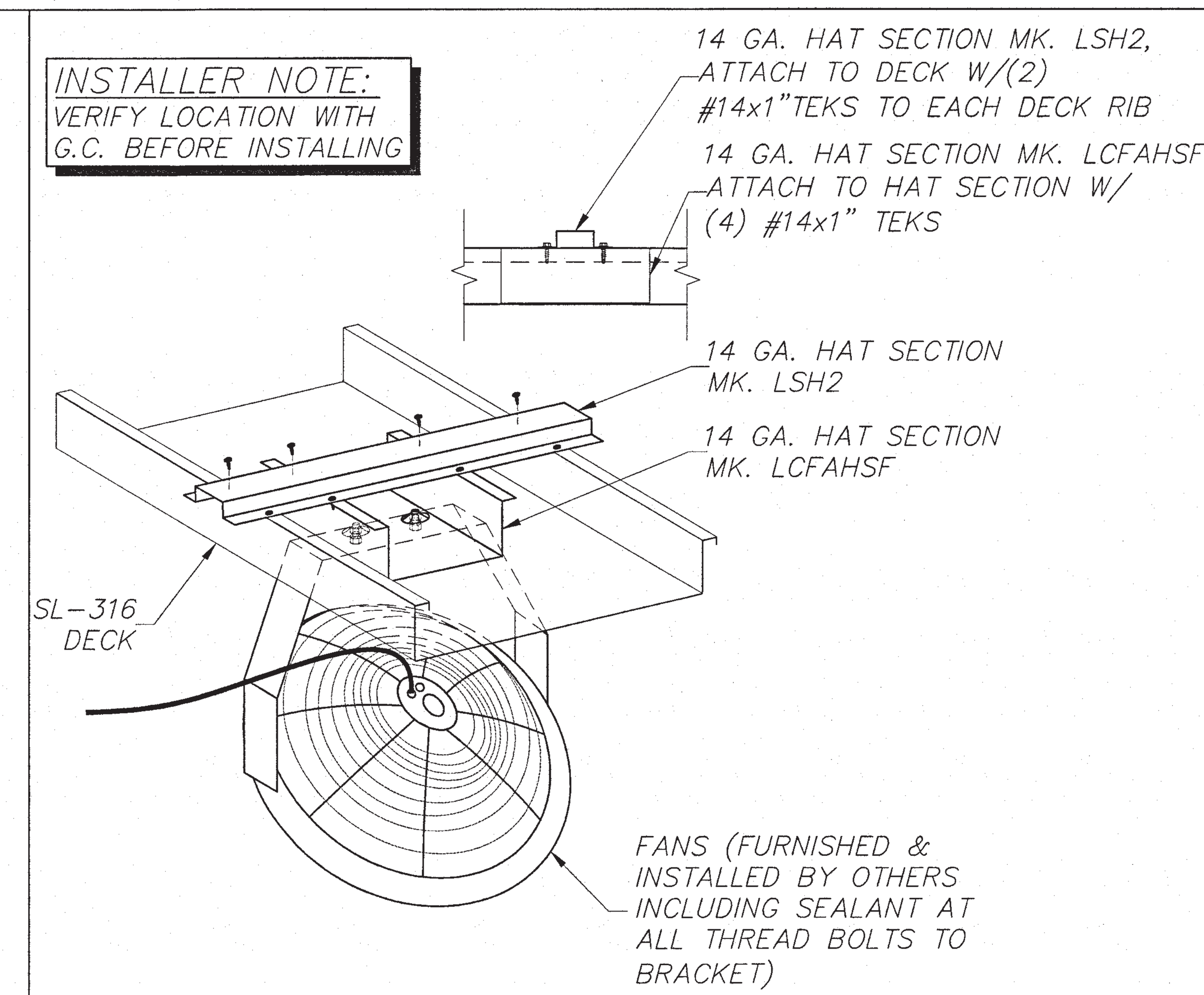
L1 DETAIL AT SIDES OF CANOPY

N.T.S. A1-E2, F1-E1



L5 DETAIL AT FASCIA CORNER AND SPLICE

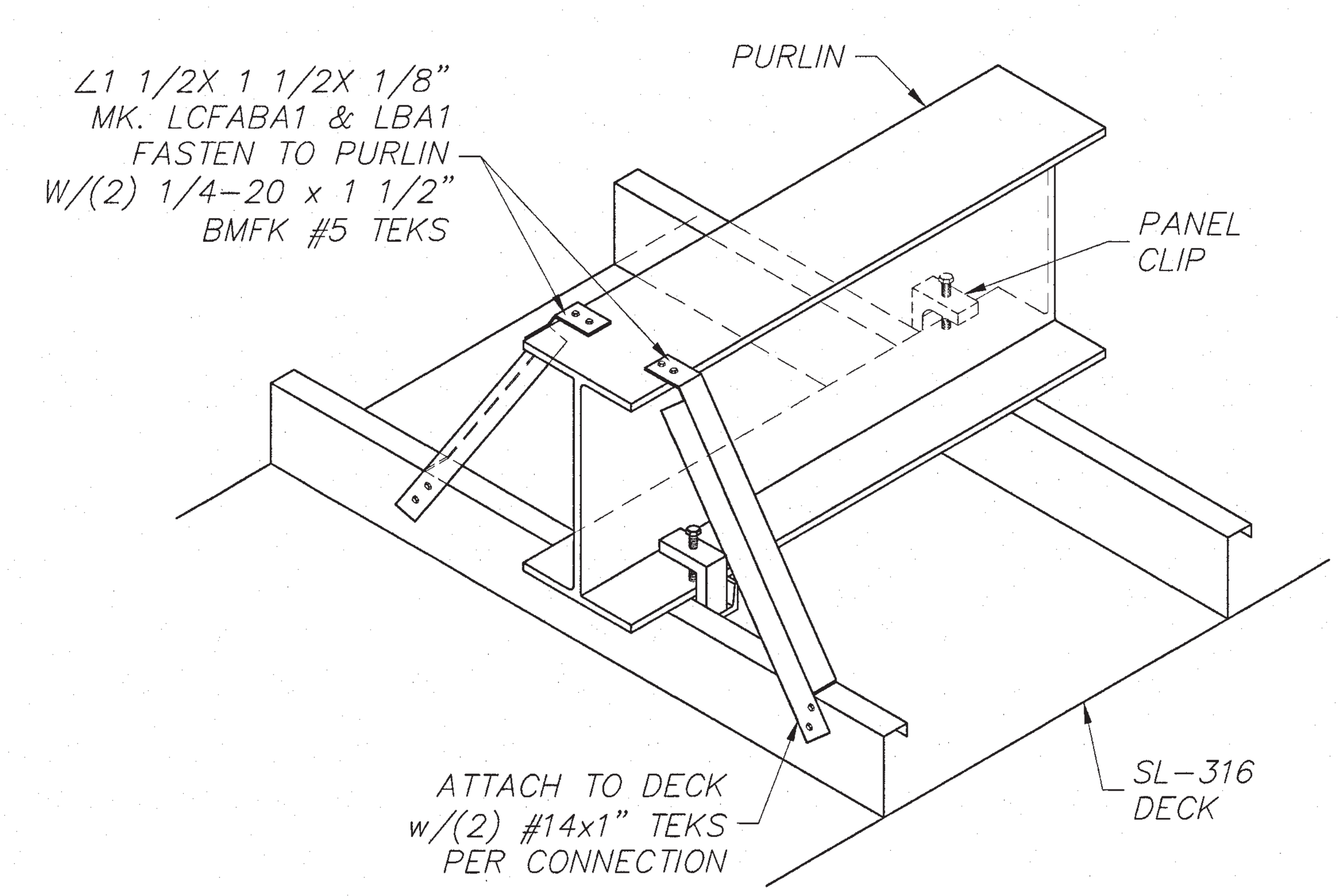
N.T.S. F1-E1



L9 SECTION AT FAN SUPPORT

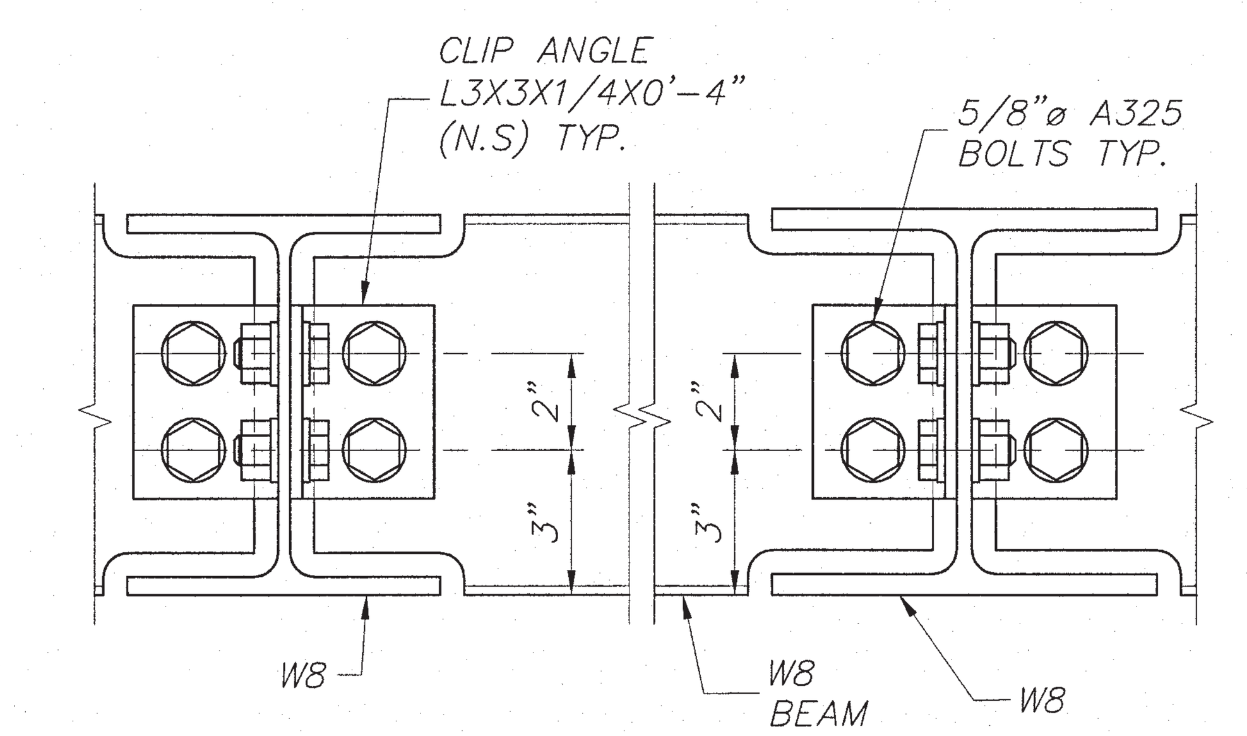
N.T.S. F1-E1

L13 NOT USED



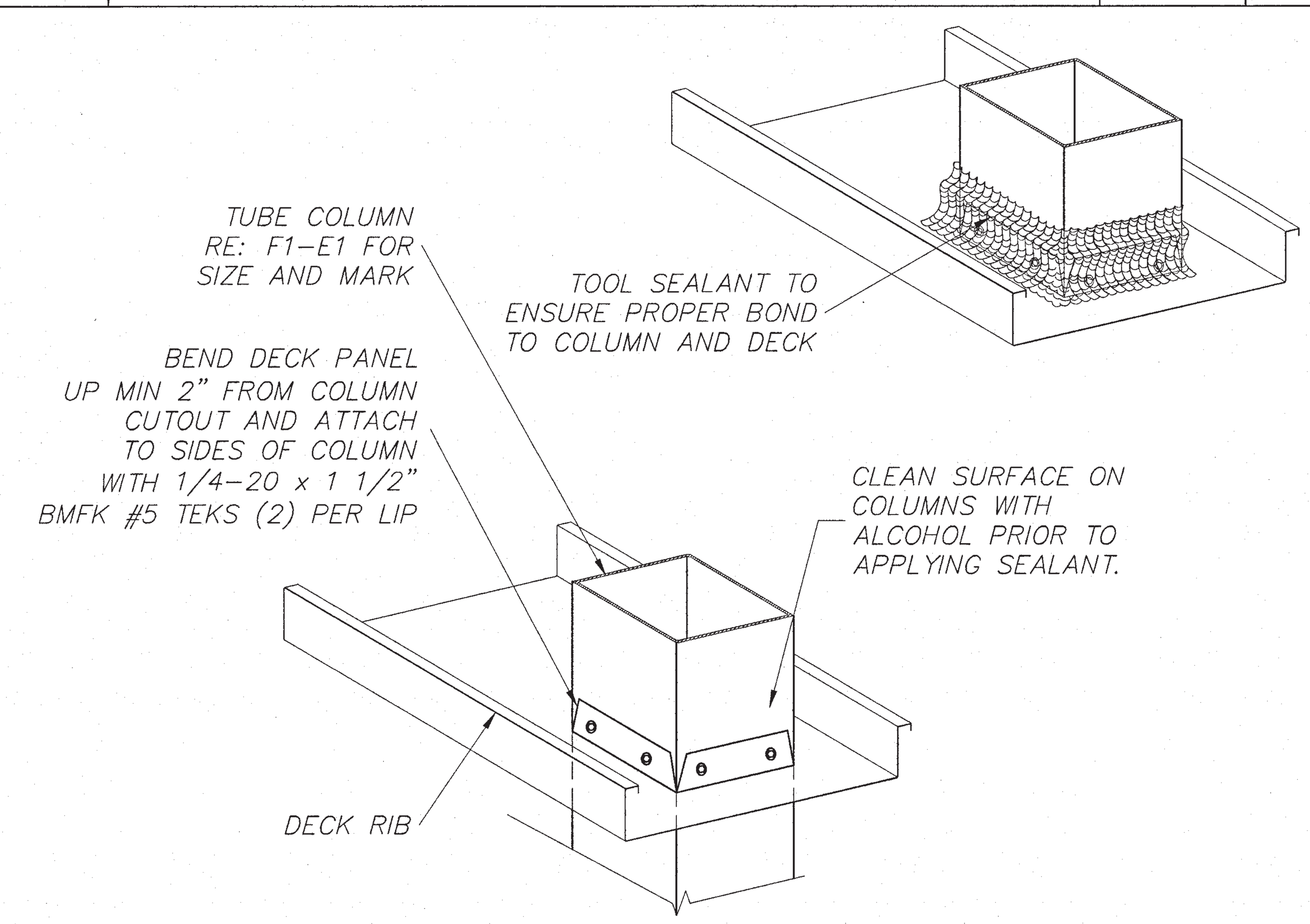
F1 SECTION AT PURLIN BRIDGING

N.T.S. F1-E1



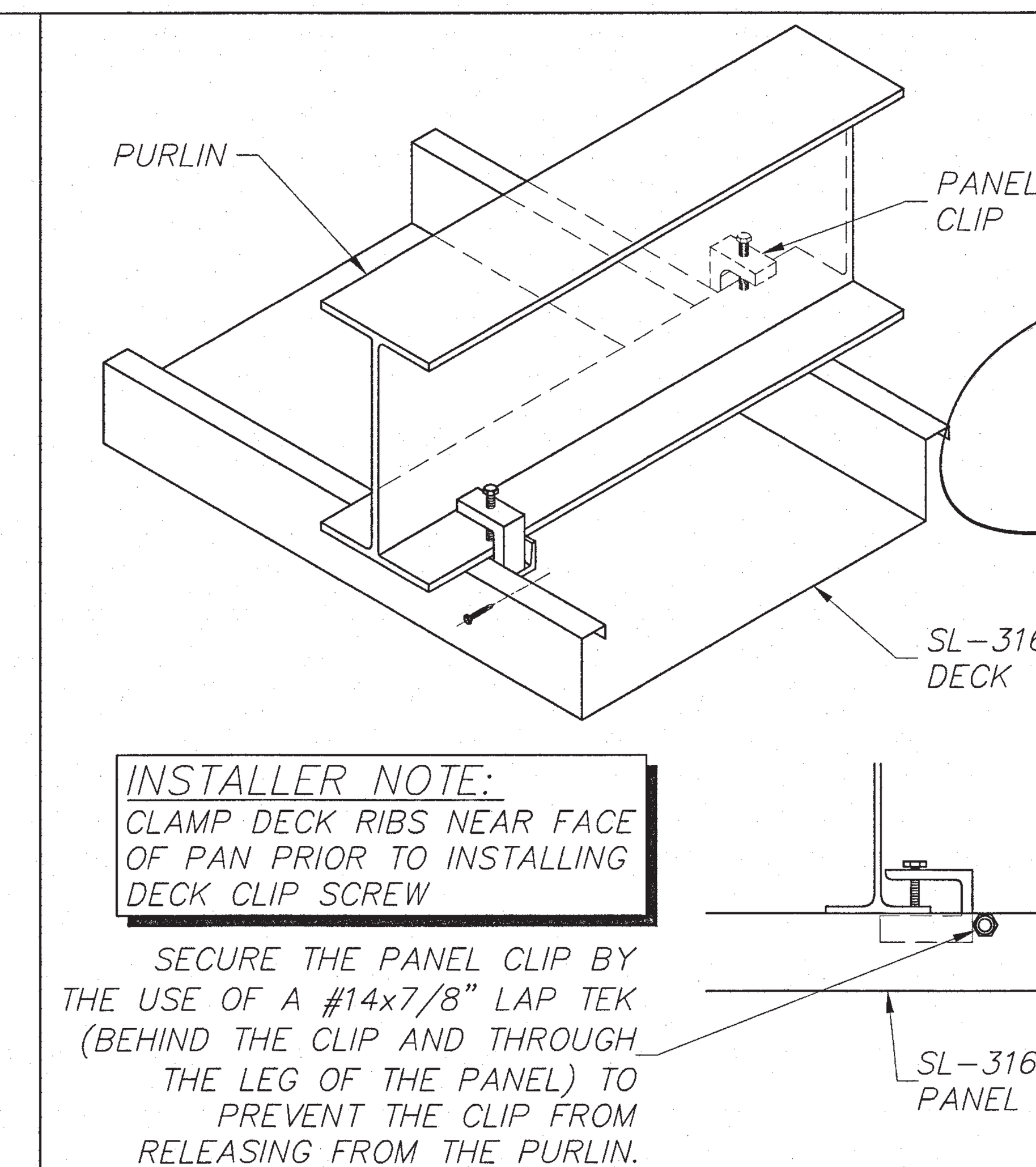
F5 SECTION AT PURLIN BRIDGING

N.T.S. F1-E1



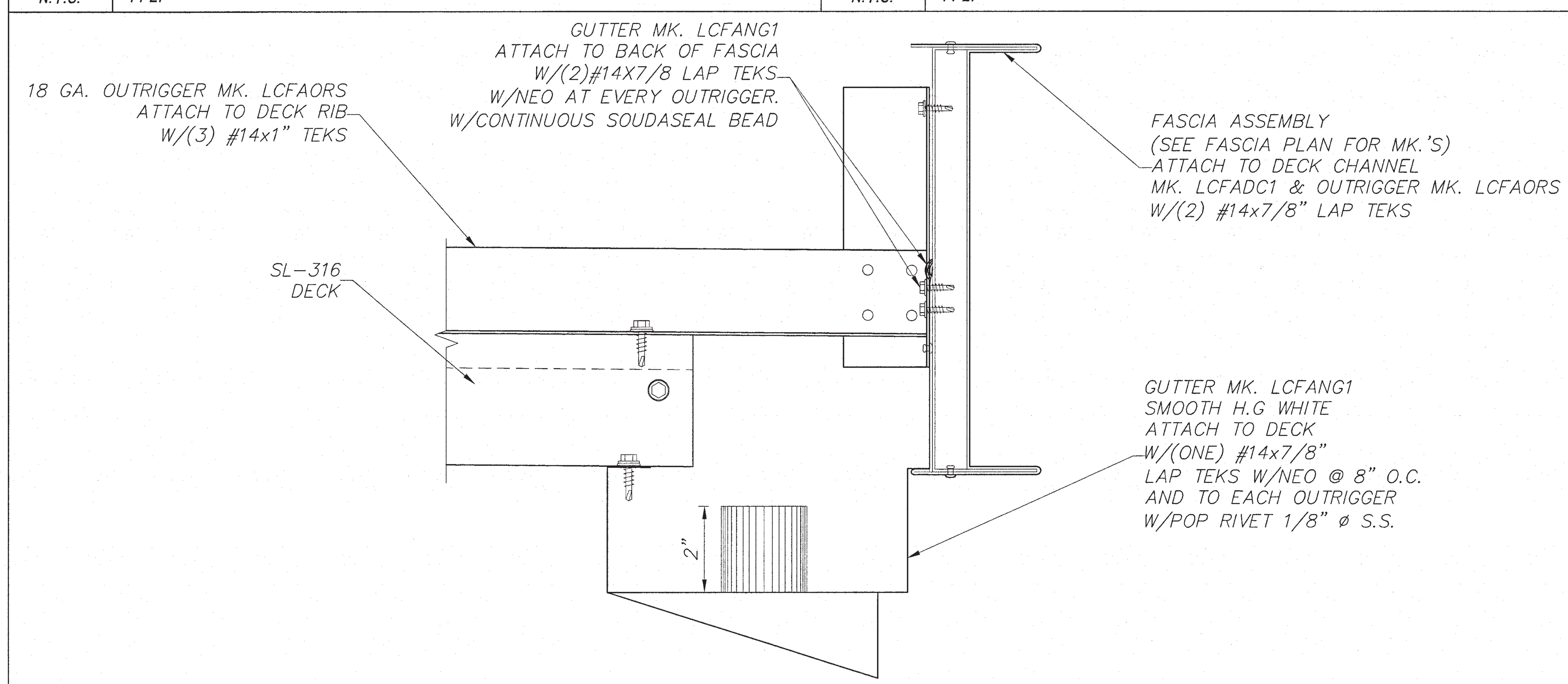
F9 DETAIL AT DECK SUPPORT

1 1/2" = 1'-0" F1-E2



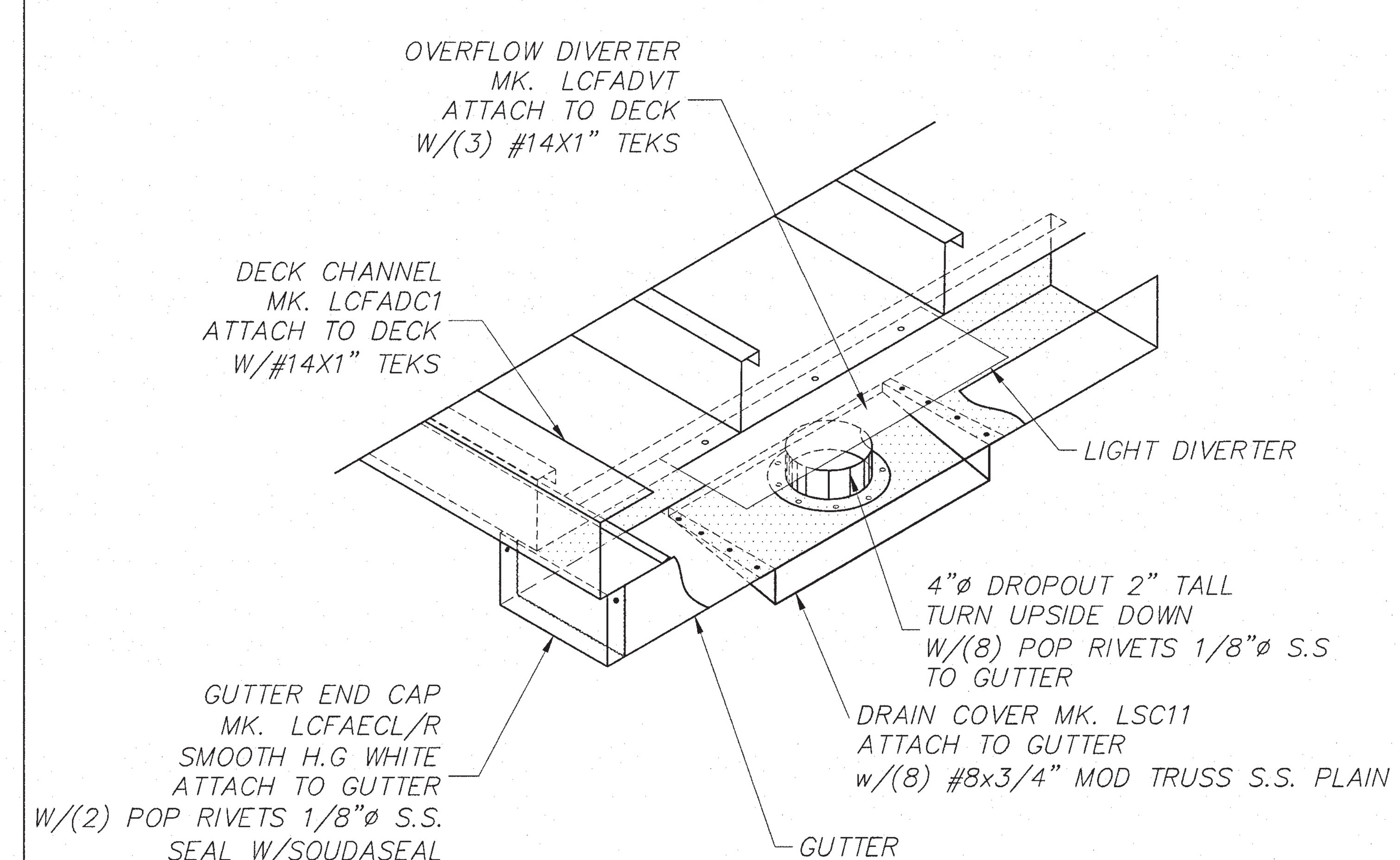
F14 DETAIL AT DECK CLIP

N.T.S. A1-E2, F1-E2



A1 DETAIL AT END OF CANOPY

N.T.S. F1-E1, F1-E2



A9 DETAIL OF OVERFLOW DRAIN

N.T.S. F1-E1

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f.
Ce = 1.2
Ct = 1.2
Is = 1.0
W = 4.92
Pd = 20.44
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 1.43 KIPS

A14 DESIGN LOADS

N.T.S.

Chick-fil-A
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Atlanta Georgia,
30349-2998

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STATE OF MISSOURI
RICHARD D. MCCASKEY
E-2001643393
REGISTERED PROFESSIONAL ENGINEER

JUL 17 2024

C.O.A. 2001015838

LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PKWY
LEE'S SUMMIT, MO
64086

SHEET TITLE
CANOPY SECTIONS
30-5" X 62'-1 1/2"

Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

Sheet
OMD-7
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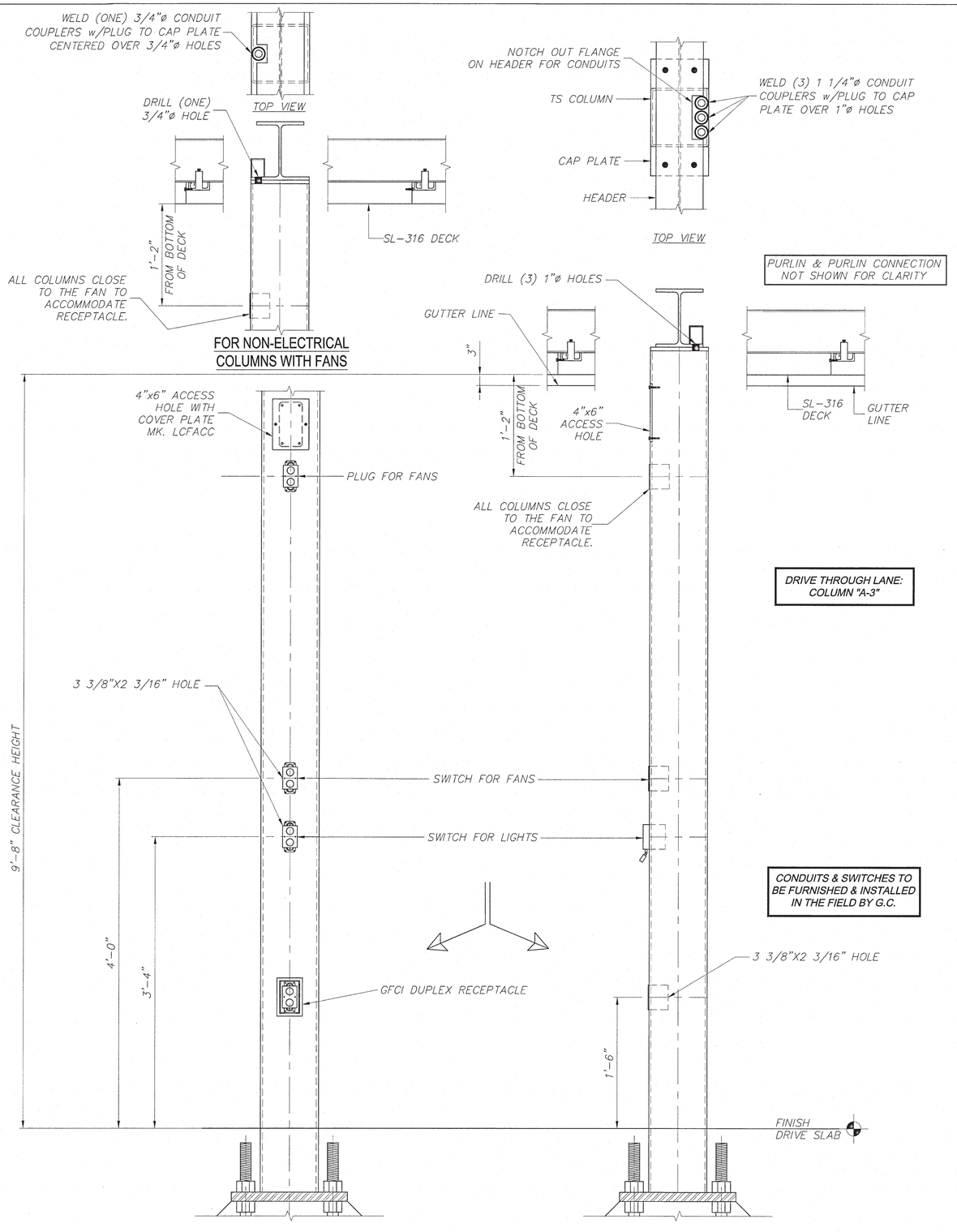

A1	SECTION @ COLUMN "A-3"	A10	NOT USED
1 1/2" = 1'-0"	F1-E1	.	.

F14	NOT USED	A14	DESIGN LOADS
.	.	N.T.S.	.

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V,ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
CANTILEVERED COLUMN SYSTEM-
ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f.
Ce = 1.2
Ct = 1.2
Is = 1.0
W = 4.92
Pd = 20.44
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 1.43 KIPS

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30349-2998

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STATE OF MISSOURI
RICHARD D. CASKEY
E-2000164393
REGISTERED PROFESSIONAL ENGINEER

JUL 17 2024

C.O.A. 2001015838

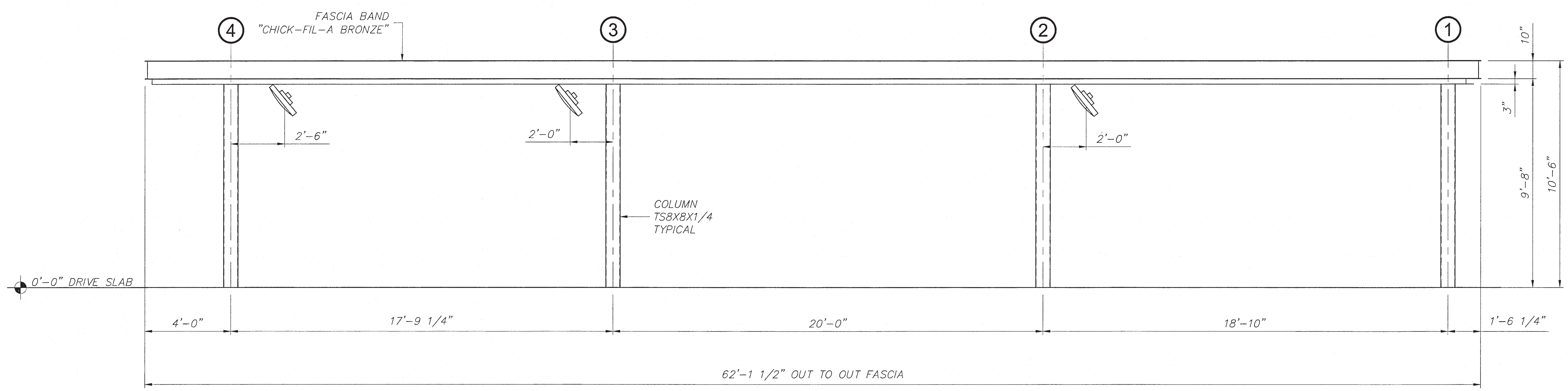
LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PKWY
LEE'S SUMMIT, MO
64086

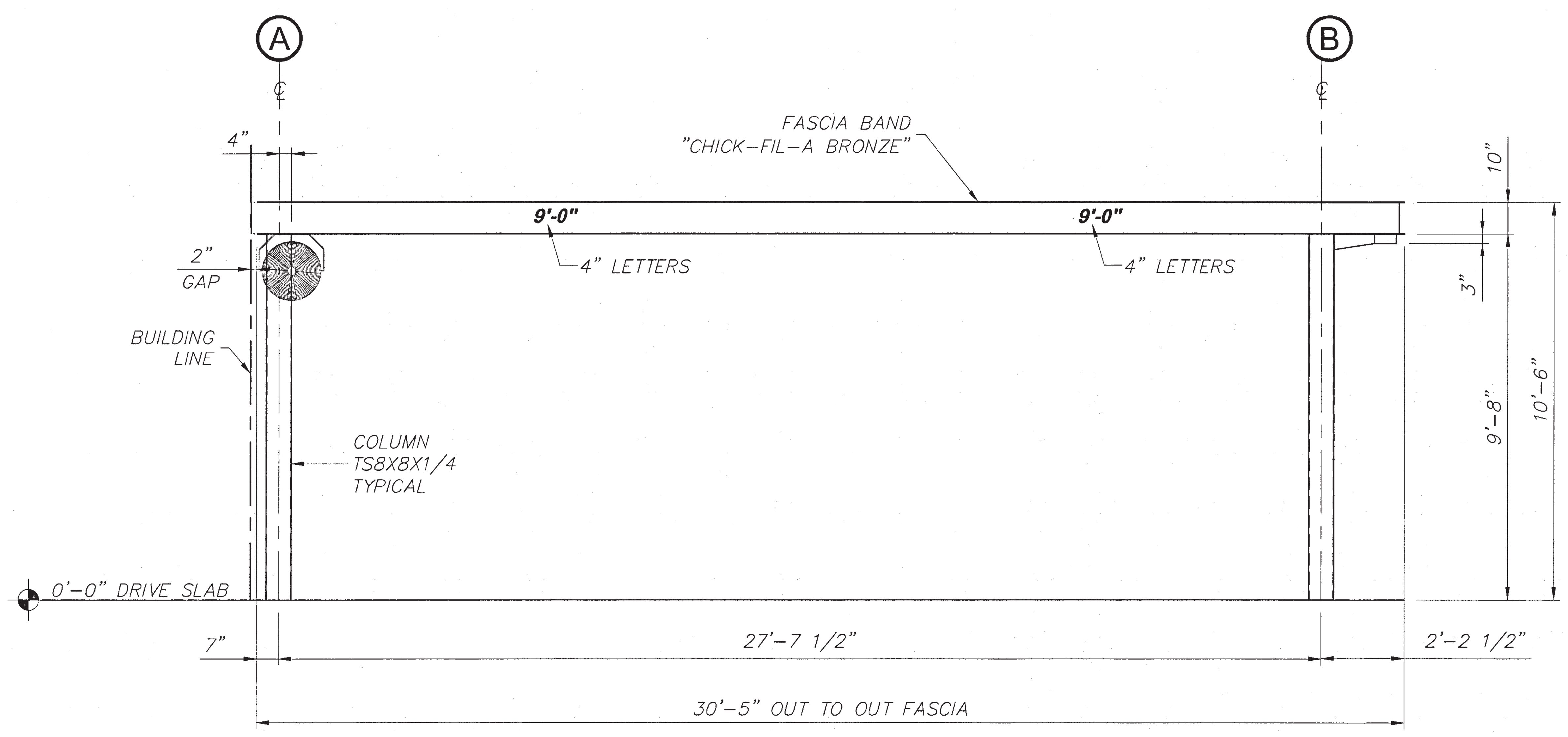
SHEET TITLE
CANOPY SECTIONS
30-5" X 62'-1 1/2"

Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

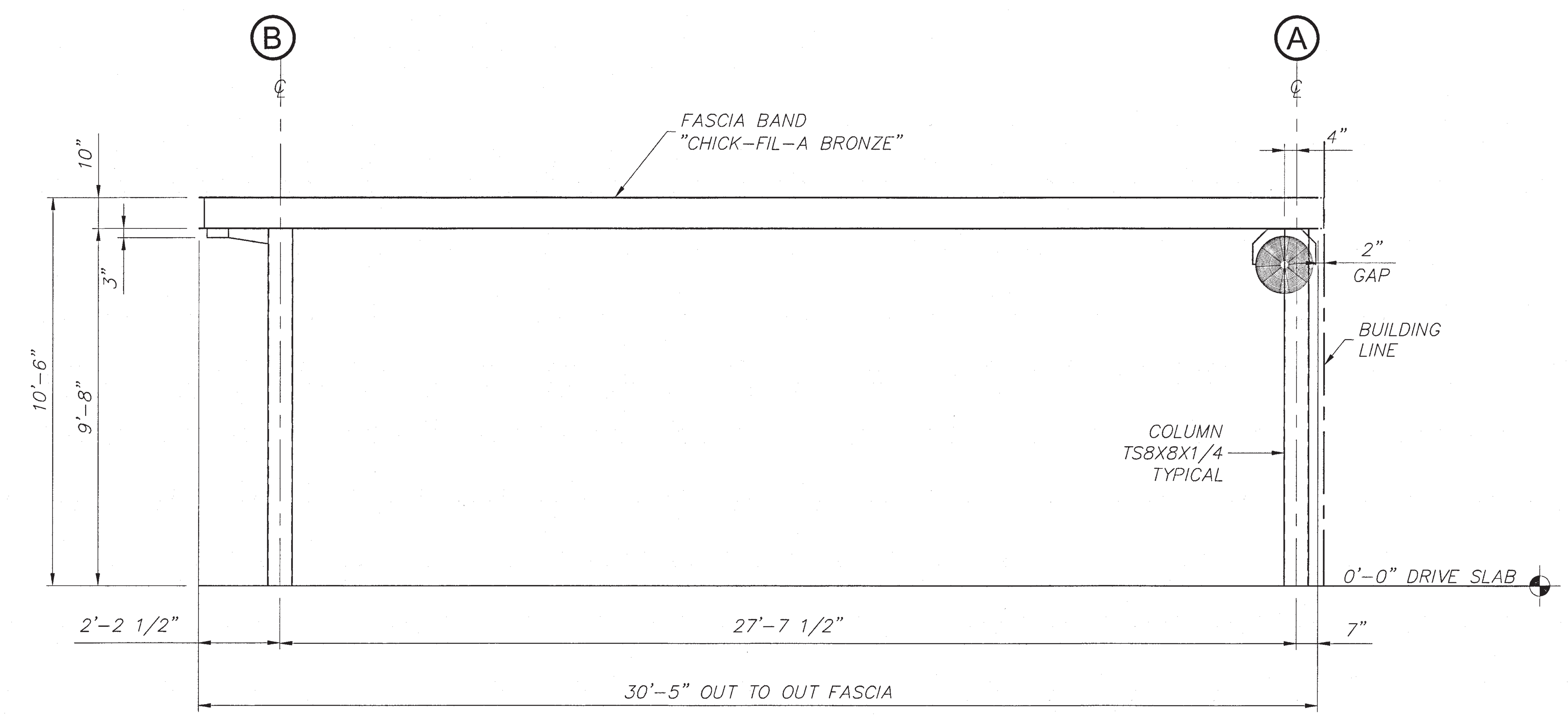
Sheet
OMD-8
E4 OF 4



H1	CANOPY SIDE ELEVATION
3/8" = 1'-0"	F1-AB1, F1-E1, F1-LL1



A1	CANOPY END ELEVATION
3/8" = 1'-0"	F1-AB1, F1-E1, F1-LL1



A9	CANOPY END ELEVATION
3/8" = 1'-0"	F1-AB1, F1-E1, F1-LL1

Chick-fil-A
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Atlanta Georgia,
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STATE OF MISSOURI
RICHARD ... ASKEY
E-2000164593
REGISTERED PROFESSIONAL ENGINEER

JUL 17 2024

C.O.A. 2001015838

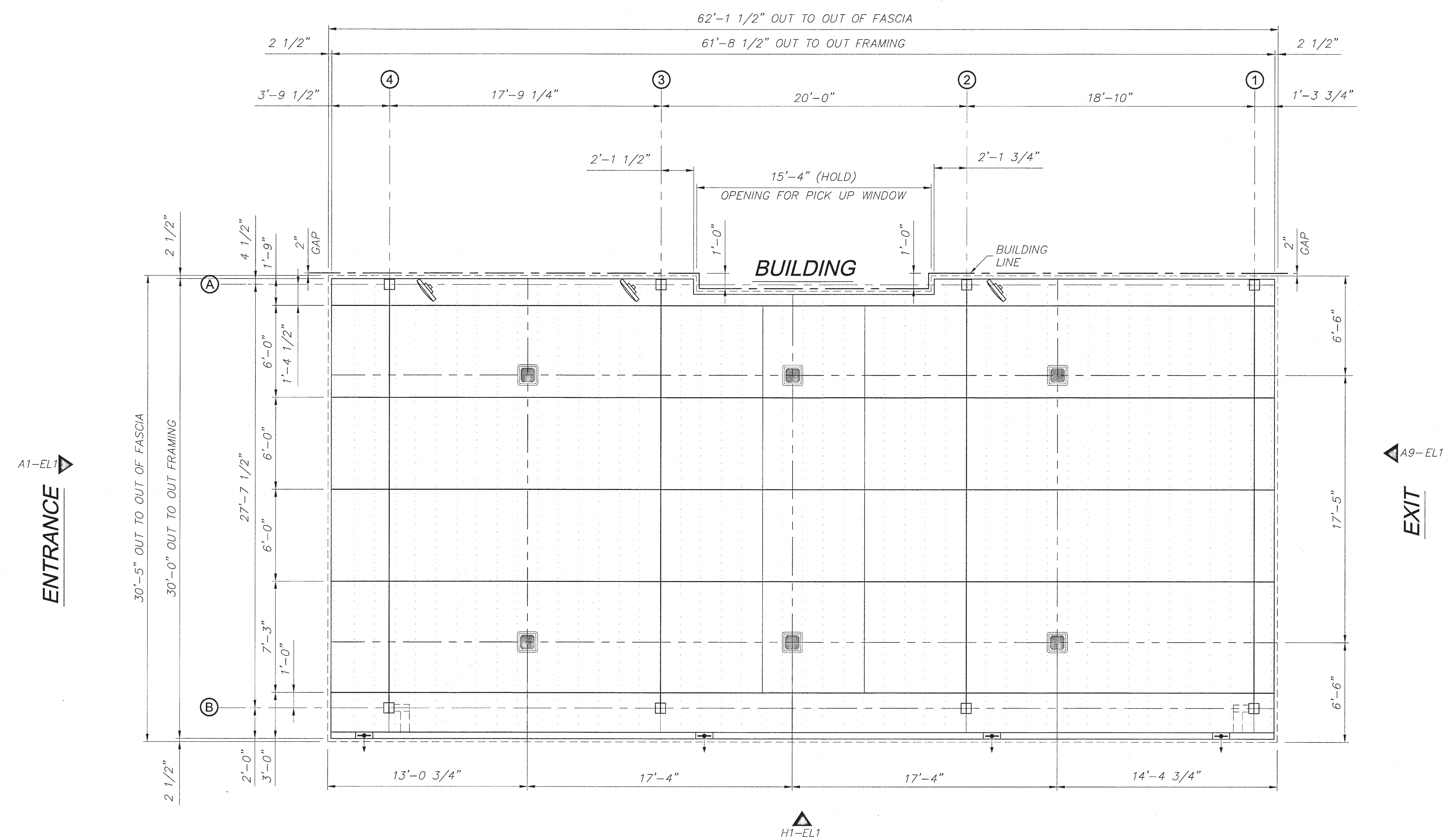
LANE
SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PKWY
LEE'S SUMMIT, MO
64086

SHEET TITLE
CANOPY ELEVATION PLAN
30-5" X 62'-1 1/2"

Job No. : LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

Sheet
OMD-9
EL1 OF 1



F1	CANOPY LIGHT LAYOUT
1/4" = 1'-0"	.

1. THE LIGHT LAYOUT IS A SUGGESTED PLAN ONLY. IT IS PROVIDED BY LANE AS A SERVICE TO ITS CUSTOMER AND IS TO BE USED AS A GUIDE ONLY.
2. THESE LIGHT FIXTURES NEED TO BE CENTERED IN DECK PANELS.
3. ENSURE ADEQUATE CLEARANCE FROM STRUCTURAL MEMBERS PRIOR TO CUTTING DECK.
4. INSTALLATION OF FIXTURES TO BE DONE IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS AND RECOMMENDATIONS.
5. IF LIGHTS INTERFERE WITH LEADER GUTTERS MOVE ROW LIGHTS TO THE NEXT DECK.

LEGEND:

INDICATES LSI CRUS-SC-LED-LW-30-CW-UE-WHT CANOPY DECK LIGHTS.

INDICATES DECK STITCHING.

MOUNTED FANS (BY OTHERS) RE: SHEET E3 FOR MOUNTING SUPPORT

INDICATES MOUNTED FAN

A1	GENERAL NOTES	A6	NOT USED	A10	NOT USED
N.T.S.	.	.	.	.	.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
5	7/15/24	IP
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STATE OF MISSOURI
RICHARD D. McCASKEY
E-2000164393
REGISTERED PROFESSIONAL ENGINEER

JUL 17 2024

C.O.A. 2001015838

LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

STORE
Chick-fil-A #02859
690 NW BLUE PKWY
LEE'S SUMMIT, MO
64086

SHEET TITLE
CANOPY LIGHT LAYOUT
30-5" X 62'-1 1/2"

Job No.: LSC: 75967
Store : 02859
Date : 09.01.23
Drawn By : KLM
Checked By: RM

Sheet
OMD-10
LL1 OF 1

LANE SUPPLY, INC.

120 Fairview
Arlington, TX 76010
817-261-9116

DESIGN CALCULATIONS FOR :

Chick-fil-A #02859 Order Canopy
690 NW Blue Parkway
Lee's Summit, MO

Six-Column Canopy :	25'-5" X 53'-9" Canopy
Lane Reference Number :	LSC-75966
Date :	01-Sep-23

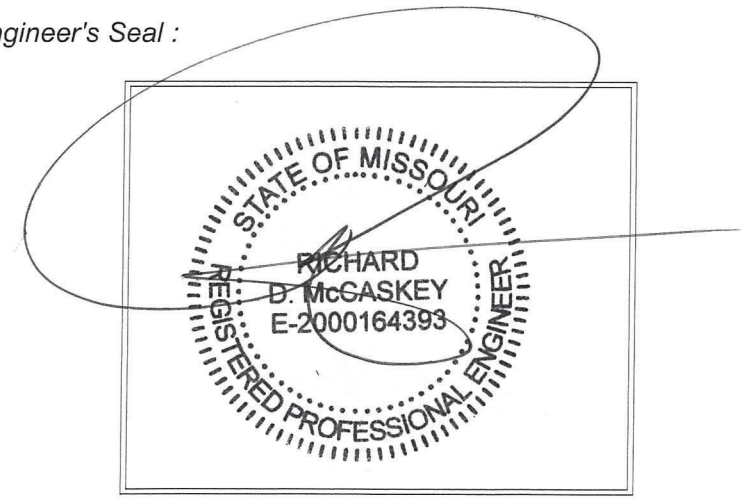
TABLE OF CONTENTS :

Canopy Calculations :

Attachments :

Lane SL-316 Deck Panel Properties
Lane Standard Base Plate Design
Design Sketch

Engineer's Seal :



C.O.A. 2001015838

SEP 07 2023

Calculations By:	**Lane Supply, Inc.**	*LSC -* 75966
Customer:	Chick-fil-A #02859 Order Canopy	*By:* JO
Project:	25'-5" X 53'-9" Canopy	*Check:*

Code: **Missouri Building Code 2018**
2018 International Buidling Code

Roof Loads:

Dead Load =	3.00	psf	(SL-316 Deck)
Live/Snow Load =	20.00	psf	
TOTAL =	23.00	psf	

Fascia Load:

Height =	10.00	in.
Dead Load =	5.83	plf

Wind Loads:

Risk Category =	II		
V, ULT Speed =	116	m.p.h. Exp	C
V, ASD Speed =	90	m.p.h. Exp	C
Height =	15	ft	
Kd =	0.85		
Kh =	0.85		
G =	0.85		
qz =	14.93	psf	

Lateral Load =	1.0	(H)•qz =	16.00	psf
Deck Uplift =	-1.7	(V)•G•qz =	-21.58	psf
Frame Uplift =	-1.1	(V)•G•qz =	-13.96	psf

Base Shear : V = CS • W = 0.084 • W

Site Class =	D		
Ss(0.2) =	0.099		
S1(1.0) =	0.068		
Fa =	1.60		
Fv =	2.40		
SM1 = Fv•S1 =	0.16		
SMS = Fa•Ss =	0.16		
SD1 = 2/3•SM1 =	0.11		
SDS = 2/3•SMS =	0.11		
R =	1.25		
Risk Category =	II		
CS = (SDS/R) =	0.084	(12.8-2)	

Seismic Design Category Based on SDS : A
Seismic Design Category Based on SD1 : B

Design Category : B

Section 7.1--Symbols & Notation

Ce = 1.2 Exposure Factor as determined from Table 7-2
Ct = 1.2 Thermal factor as determined from Table 7-3
D = Snow Density in pcf as determined from Eq. 7-4
hb = Height of balanced snow load determined by dividing Pf by D, in feet.
hd = Height of snow drift, in feet
hc = Clear height from top of balanced snow to top of parapet, ft
hr = 0.83 = Fascia height, ft
Is = 1.0 = Importance factor (see Table 7-4).
Pf = Snow load on flat roofs, psf.
Pg = 20 =ground snow, psf.
Pd = Maximum intensity of drift surcharge load, psf.
lu = 25.875 = Length of roof upwind of the drift, feet
w = Width of snow drift, in feet

Section 7.3--Flat-Roof Snow Loads, Pf

The snow load, Pf, on a roof with a slope equal to or less than 15° shall be calculated in psf using equation 7.3-1, but not less than tl following mimimum values for low slope roofs: where Pg is 20 psf or less Pf = I(Pg), where Pg exceeds 20 psf, Pf = 20 (I).

Section 7.7 & Section 7.8

The geometrey of the surcharge load due to snow drifting shall be approximated by a triangle as shown in figure 7-8. Drift loads shall be superimposed on the balanced snow load. If hc/hb is less than 0.2, drift loads are not required to be applied. The height of such drifts shall be taken as 0.75 x hd as determined from Fig 7-9, with lu equal to the length of the roof upwind of the projection or parapet wall. If the side of a roof projection is less than 15 ft long, a drift load is not required to be applied to that side. If the height, hd, is equal to or less than hc, the drift width shall equal 4hd and the drft height shall equal hd. If this height exceeds hc, the drift width, w, shall equal 4 hd^2/hc and the drift height shall equal hc. However, the drift width w shall not exceed 8hc. The maximum intensity of the drift surcharge load, pd, equals hd x D where the snow density, D, is defined by Eq 7.7-

Section 7.10--Rain-On-Snow Surcharge Load

For locations where Pg is 20 psf or less but not zero, all roofs with a slope less than W/50, shall have a 5 psf rain-on-snow surcharge load appled to establish the design snow loads. This rain-on-snow augmented design load applies only to the balanced load case and need not be used in combination with drift, sliding, unbalanced, or partial loads.

Pf = 0.7 x Ce x Ct x Is x Pg *Eq 7.3-1*
Pf = 20.0 psf
hd = 0.75 x (0.43(lu)^1/3 x (Pg+10)^1/4-1.5) *Ref. Fig. 7-9*
hd = 1.11 ft
D = 0.13Pg + 14 < 30 psf *Eq 7.7-1*
D = 16.60 psf
hb = 1.20 ft
hc =hr-hb = -0.37 ft
hc/hb = -0.31
Drift Loads Not Considered
w = -13.20 ft

Pd = D x hd<D x hc
Pd = -6.17 psf

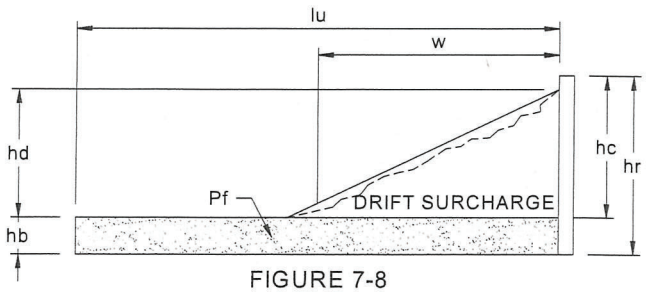
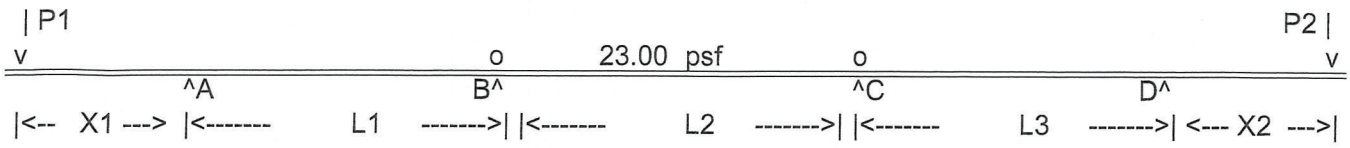


FIGURE 7-8
Configuration of Snow Drifts on Lower Roofs

DECK DESIGN:



Wd=	3.00	psf	X1=	0.75	ft
Wl=	20.00	psf	L1=	7.02	ft
Deck : Ww=	-21.58	psf	L2=	7.02	ft
Frame : Ww=	-13.96	psf	L3=	7.17	ft
P1=	5.83	plf	X2=	3.50	ft
P2=	5.83	plf			

			RAd=	19.36	plf
			RAl=	86.01	plf
			Frame : RAw=	-60.04	plf
			Deck : RAw=	-92.80	plf
MAd=	5.22	ft-lbs/ft	RA(d+l)=	105.37	plf
MAl=	5.63	ft-lbs/ft	Frame : RA(d+w)=	-40.69	plf
Deck : MAw=	-6.07	ft-lbs/ft	Deck : RA(d+w)=	-73.44	plf
MA(d+l)=	10.84	ft-lbs/ft			
Deck : MA(d+w)=	-0.85	ft-lbs/ft	RBd=	20.32	plf
			RBl=	140.42	plf
			Frame : RBw=	-97.47	plf
			Deck : RBw=	-150.63	plf
MAB(d+l)=	139.12	ft-lbs/ft	RB(d+l)=	160.74	plf
Deck : MAB(d+w)=	-114.04	ft-lbs/ft	Frame : RB(d+w)=	-77.15	plf
			Deck : RB(d+w)=	-130.31	plf
MBC(d+l)=	141.71	ft-lbs/ft	RCd=	15.87	plf
Deck : MBC(d+w)=	-114.47	ft-lbs/ft	RCl=	141.88	plf
			Frame : RCw=	-87.11	plf
			Deck : RCw=	-134.63	plf
MCD(d+l)=	128.90	ft-lbs/ft	RC(d+l)=	157.74	plf
Deck : MCD(d+w)=	-77.16	ft-lbs/ft	Frame : RC(d+w)=	-71.24	plf
			Deck : RC(d+w)=	-118.76	plf
			RDd=	32.50	plf
MDd=	38.79	ft-lbs/ft	RDl=	158.76	plf
MDl=	122.50	ft-lbs/ft	Frame : RDw=	-110.83	plf
Deck : MDw=	-132.17	ft-lbs/ft	Deck : RDw=	-171.29	plf
MD(d+l)=	161.29	ft-lbs/ft	RD(d+l)=	191.26	plf
Deck : MD(d+w)=	-93.37	ft-lbs/ft	Frame : RD(d+w)=	-78.34	plf
			Deck : RD(d+w)=	-138.79	plf

USE 20 GAUGE GRADE C DECK

+S=.3961 in^3 -S=.3036 in^3 FY=40 ksi

BEAM DESIGN: P-a

Wd=	30.32	plf					
Wl=	140.42	plf					
Ww=	-97.47	plf					
Pd=	40.72	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	5.92	ft					
X=	1.94	ft					
MA(d) =	136	ft-lbs					
MA(l) =	264	ft-lbs					
MA(w) =	-183	ft-lbs					
MA(d+l) =	399	ft-lbs	lu=	1.33	ft		
MA(d+w) =	-47	ft-lbs	lu=	1.94	ft		
MAB(d+l)=	681	ft-lbs	lu=	5.92	ft		
MAB(d+w)=	-271	ft-lbs	lu=	1.33	ft		

| P	
v	170.74 plf
^A	B^
|<-----X---->	|<---------- L ----------->|

Deflections: (inches)	Overhang	Midspan
DL=	0.000	0.000
DL+LL=	-0.002	0.004
(+downward, -upward)		

RAd=	212	lbs
RAl=	732	lbs
RAw=	-508	lbs
RA(d+l)=	944	lbs
RA(d+w)=	-296	lbs
RBd=	67	lbs
RBl(Max)=	415	lbs
RBw=	-257	lbs
RB(d+l)=	482	lbs
RB(d+w)=	-191	lbs

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-b

Wd=	30.32	plf
Wl=	140.42	plf
Ww=	-97.47	plf
L=	19.00	ft

170.74	plf
^	^
|<----------	L --------->|

Md=	1368.2	ft-lbs	Rd=	288 lbs
Ml=	6336.3	ft-lbs	Rl=	1334 lbs
Mw=	-4398.2	ft-lbs	Rw=	-926 lbs
M(d+l)=	7704.5	ft-lbs	R(d+l)=	1622 lbs
M(d+w)=	-3030.1	ft-lbs	R(d+w)=	-638 lbs
			Lu=	9.50 ft OK
			Lu=	1.33 ft OK

USE: W8X10 Fy = 50 ksi

Deflections: (inches)	Midspan
DL=	0.100
DL+LL=	0.560
(+downward, -upward)	

BEAM DESIGN: P-c

Wd=	25.87	plf					
Wl=	141.88	plf					
Ww=	-87.11	plf					
Pd=	36.39	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	5.92	ft					
X=	1.94	ft					

```
 | P
 v                  167.74  plf
 ==================================
                 ^A                B^
 |<-----X----> |<----------   L ---------->|
```

Deflections: (inches)	Overhang	Midspan
DL=	0.000	0.000
DL+LL=	-0.002	0.004

(+downward, -upward)

MA(d) =	119	ft-lbs				RAd=	183	lbs
MA(l) =	266	ft-lbs				RAl=	740	lbs
MA(w) =	-164	ft-lbs				RAw=	-454	lbs
MA(d+l) =	385	ft-lbs	lu=	1.33	ft	RA(d+l)=	923	lbs
MA(d+w) =	-44	ft-lbs	lu=	1.94	ft	RA(d+w)=	-271	lbs
						RBd=	56	lbs
						RBl(Max)=	420	lbs
						RBw=	-230	lbs
MAB(d+l)=	676	ft-lbs	lu=	5.92	ft	RB(d+l)=	476	lbs
MAB(d+w)=	-246	ft-lbs	lu=	1.33	ft	RB(d+w)=	-174	lbs

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-d

Wd=	25.87	plf
Wl=	141.88	plf
Ww=	-87.11	plf
L=	19.00	ft

```
      167.74  plf
 ========================
 ^                      ^
 |<-----------   L  -------->|
```

			Rd=	246	lbs	
			Rl=	1348	lbs	
Md=	1167.3	ft-lbs	Rw=	-828	lbs	
Ml=	6402.1	ft-lbs	R(d+l)=	1594	lbs	
Mw=	-3930.9	ft-lbs	R(d+w)=	-582	lbs	
M(d+l)=	7569.4	ft-lbs	Lu=	9.50	ft	**OK**
M(d+w)=	-2763.6	ft-lbs	Lu=	1.33	ft	**OK**

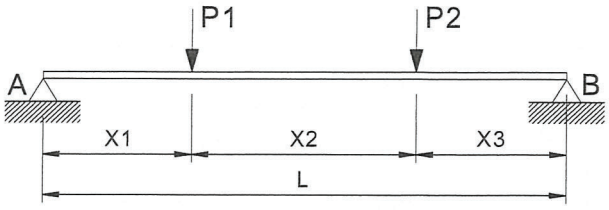
USE: W8X10 Fy = 50 ksi

Deflections: (inches)	Midspan
DL=	0.085
DL+LL=	0.551

(+downward, -upward)

BEAM DESIGN: P-e

P1d =	212.11	lbs
P1l =	732.00	lbs
P1w =	-508.10	lbs
P2d =	183.17	lbs
P2l =	739.60	lbs
P2w =	-454.12	lbs
Wd =	16.00	plf
Wl =	0.00	plf
Ww =	0.00	plf



X1 =	7.02	ft
X2 =	7.02	ft
X3 =	7.17	ft
L =	21.21	ft

RAd =	373	lbs
RAl =	740	lbs
RAw =	-493	lbs
RA(d+l) =	1113	lbs
RA(d+w) =	-120	lbs

RBd =	361	lbs
RBl =	732	lbs
RBw =	-469	lbs
RB(d+l) =	1093	lbs
RB(d+w) =	-108	lbs

MAB(dl) =	2301	ft-lbs		
MAB(ll) =	5246	ft-lbs		
MAB(wl) =	-3464	ft-lbs		
MAB(dl+ll) =	7520	ft-lbs	lu =	7.17 ft
MAB(dl+wl) =	-1236	ft-lbs	lu =	7.17 ft

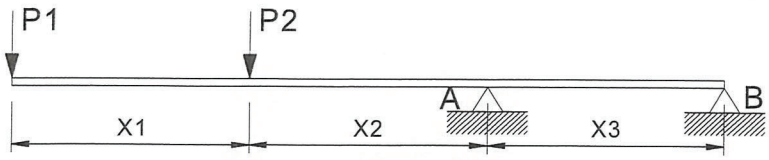
Deflection

dl =	0.202	in
dl+ll =	0.665	in

USE: W6X16 Fy = 50 ksi

BEAM DESIGN: P-f

P1d=	25.09	lbs
P1l=	0.00	lbs
P1w=	0.00	lbs
P2d=	373.46	lbs
P2l=	739.60	lbs
P2w=	-493.36	lbs
Wd =	39.36	plf
Wl =	86.01	plf
Ww =	-60.04	plf
X1=	1.94	ft
X2=	5.92	ft
X3=	19.00	ft



RAd=	1272.12 lbs
RAl=	2602.17 lbs
RAw=	-1786.49 lbs
RAd+l=	3874.29 lbs
RAd+w=	-514.36 lbs
RBd=	183.34 lbs
RBl=	447.15 lbs
RBw=	-319.32 lbs
RBd+l=	630.49 lbs
RBd+w=	-135.97 lbs

MA(d)=	3621 ft-lbs		
MA(l)=	7029 ft-lbs		
MA(w)=	-4771 ft-lbs		
MA(d+l)=	10649 ft-lbs	lu =	1.33 ft
MA(d+w)=	-1150 ft-lbs	lu =	5.92 ft
MAB(d+l)=	1557 ft-lbs	lu =	9.50 ft
MAB(d+w)=	-439 ft-lbs	lu =	1.33 ft

Deflections

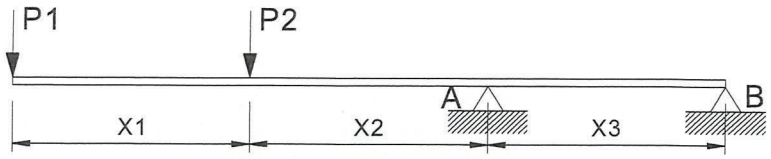
	OH	SPAN
dl (in)=	0.221	-0.023
dl+ll (in) =	0.616	-0.045

USE: W6X20 Fy = 50 ksi

BEAM DESIGN: P-g

P1d=	46.30	lbs
P1l=	0.00	lbs
P1w=	0.00	lbs
P2d=	361.16	lbs
P2l=	732.00	lbs
P2w=	-468.87	lbs
Wd =	45.50	plf
Wl =	158.76	plf
Ww =	-110.83	plf

X1=	1.94	ft
X2=	5.92	ft
X3=	19.00	ft



RAd=	1402.47 lbs
RAl=	3972.82 lbs
RAw=	-2718.20 lbs
RAd+l=	5375.29 lbs
RAd+w=	-1315.73 lbs

RBd=	226.75 lbs
RBl=	1022.54 lbs
RBw=	-726.98 lbs
RBd+l=	1249.29 lbs
RBd+w=	-500.23 lbs

MA(d)=	3904 ft-lbs		
MA(l)=	9228 ft-lbs		
MA(w)=	-6193 ft-lbs		
MA(d+l)=	13132 ft-lbs	lu =	1.33 ft
MA(d+w)=	-2289 ft-lbs	lu =	5.92 ft
MAB(d+l)=	3803 ft-lbs	lu =	9.50 ft
MAB(d+w)=	-1915 ft-lbs	lu =	1.33 ft

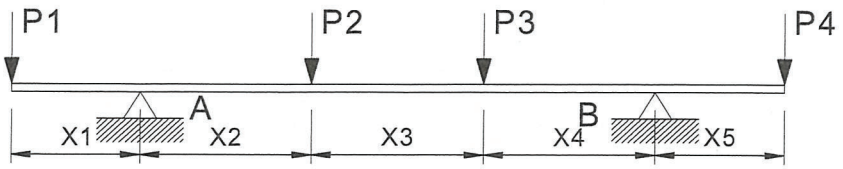
Deflections

	OH	SPAN
dl (in)=	0.239	-0.018
dl+ll (in) =	0.624	0.067

USE: W8X13 Fy = 50 ksi

HEADER BEAM DESIGN: H-a

P1d =	1272	lbs
P1l =	2602	lbs
P1w =	-1786	lbs
P2d =	355	lbs
P2l =	1749	lbs
P2w =	-1183	lbs
P3d =	302	lbs
P3l =	1768	lbs
P3w =	-1058	lbs
P4d =	1402	lbs
P4l =	3973	lbs
P4w =	-2718	lbs



X1 =	1.25	ft
X2 =	5.77	ft
X3 =	7.02	ft
X4 =	0.88	ft
X5 =	6.29	ft

Wd =	24.00	plf
Wl =	0.00	plf
Ww =	0.00	plf

RAd=	1128	lbs	RBd=	2713	lbs
RAl=	2135	lbs	RBl=	7957	lbs
RAw=	-1450	lbs	RBw=	-5296	lbs
RAd+l=	3263	lbs	RBd+l=	10670	lbs
RAd+w=	-322	lbs	RBd+w=	-2583	lbs

MA(DL):	-1608.9	ft-lbs				
MA(LL):	-3252.7	ft-lbs				
MA(WL):	2233.1	ft-lbs			Deflection	
MA(DL+LL):	-4861.6	ft-lbs	lu =	1.25 ft	DL =	0.02 in
MA(DL+WL):	624.2	ft-lbs	lu =	1.25 ft	DL+LL =	0.06 in

SPAN

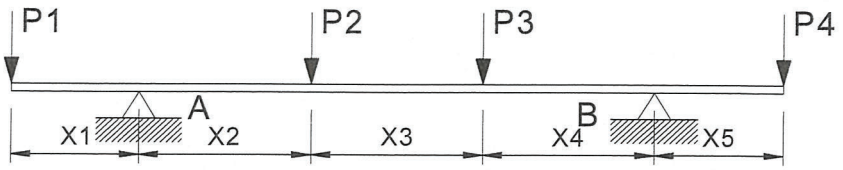
					Deflection	
M(DL+LL):	-4861.6	ft-lbs	lu =	7.02 ft	DL =	-0.06 in
M(DL+WL):	624.2	ft-lbs	lu =	7.02 ft	DL+LL =	-0.08 in

MB(DL):	-9298.9	ft-lbs				
MB(LL):	-24995.6	ft-lbs				
MB(WL):	17102.0	ft-lbs			Deflection	
MB(DL+LL):	-34294.5	ft-lbs	lu =	6.29 ft	DL =	0.11 in
MB(DL+WL):	7803.1	ft-lbs	lu =	6.29 ft	DL+LL =	0.38 in

USE: W8X24 Fy = 50 ksi

HEADER BEAM DESIGN: H-b

P1d =	367	lbs
P1l =	894	lbs
P1w =	-639	lbs
P2d =	576	lbs
P2l =	2668	lbs
P2w =	-1852	lbs
P3d =	492	lbs
P3l =	2696	lbs
P3w =	-1655	lbs
P4d =	453	lbs
P4l =	2045	lbs
P4w =	-1454	lbs



X1 =	1.25	ft
X2 =	5.77	ft
X3 =	7.02	ft
X4 =	0.88	ft
X5 =	6.29	ft

Wd =	20.00	plf
Wl =	0.00	plf
Ww =	0.00	plf

RAd=	690	lbs
RAl=	1749	lbs
RAw=	-1204	lbs
RAd+l=	2438	lbs
RAd+w=	-514	lbs

RBd=	1622	lbs
RBl=	6554	lbs
RBw=	-4396	lbs
RBd+l=	8177	lbs
RBd+w=	-2774	lbs

MA(DL):	-474.0	ft-lbs			
MA(LL):	-1117.9	ft-lbs			
MA(WL):	798.3	ft-lbs			
MA(DL+LL):	-1591.9	ft-lbs	lu =	1.25	ft
MA(DL+WL):	324.3	ft-lbs	lu =	1.25	ft

Deflection

DL =	-0.00	in
DL+LL =	-0.00	in

SPAN

M(DL+LL):	4724.0	ft-lbs	lu =	7.02	ft
M(DL+WL):	-1549.8	ft-lbs	lu =	7.02	ft

Deflection

DL =	-0.01	in
DL+LL =	0.01	in

MB(DL):	-3249.1	ft-lbs			
MB(LL):	-12867.0	ft-lbs			
MB(WL):	9147.8	ft-lbs			
MB(DL+LL):	-16116.1	ft-lbs	lu =	6.29	ft
MB(DL+WL):	5898.7	ft-lbs	lu =	6.29	ft

Deflection

DL =	0.06	in
DL+LL =	0.30	in

USE: W6X20 Fy = 50 ksi

Column Design — *AISC 15th ed, Use First Order Analysis Criteria*

P DL =	2.71	kips	Clr. Ht.=	9.50	ft
P LL =	7.96	kips	Fascia Ht.=	1.00	ft
P WL =	-5.30	kips	Col. Trib=	19.27	ft
Base Shear =	0.20	kips	Wind Load=	16.00	psf
Total Base Shear =	0.84	kips	# of COL.=	2	
M WL =	w(Fascia Ht•2.5•Col Trib./# of col•L)+ w(Wrap•1/2 Clr. Ht^2)		Max All. Defl =	1.20	in
M Seis =	Base Shear x L		Max Defl Ratio =	L/ 100	
M Unbal =	Live Load x Col. Trib.x (Canopy Width/2)^2/2		Max Defl. =	0.13	in, OK
L =	Clr. Ht. + Fascia Ht/2				

Pr = 10.67 kips 1.6Pr<0.5Py First-Order Analysis Allowed (A-7-1)

Py = 326.60 kips

N = 0.00 •Yi (A-7-2)

B2 = 1.05 OK, A-8-6

M WL = 4.58 kip-ft

M Seis = 1.98 kip-ft

M DL(Nod) = 0.11 kip-ft

M LL(Nod) = 0.33 kip-ft

M Unbal DL= 0.00 kip-ft

M Unbal LL= 0.00 kip-ft

M Unbal WL= 0.00 kip-ft

Use: TS8X8X1/4		
Fy =	46.00	ksi
K =	1.00	
L, Col =	10.00	ft
A =	7.10	in^2
I =	70.70	in^4
Cm =	1.00	
Pe1 =	447.31	kips
B1 =	1.04	(A-8-3)
P,All =	177.38	kips
M, All =	44.10	kip-ft

Load Combination	Pr, Kips	Mr, Kip-ft	Equation	Result
D+L	10.67	0.47	0.04	OK
D+W	2.71	4.88	0.12	OK
D+0.7E	2.71	1.56	0.04	OK
D+0.75W+0.75L	8.68	3.95	0.11	OK
D+0.525E+0.75L	8.68	1.46	0.06	OK

Top Connection : Standard Cap Plate — Base Plate : LBP 8 - 20

Foundation: (Restrained at Grade)

d^2=(4.25*M)/(S3*b)

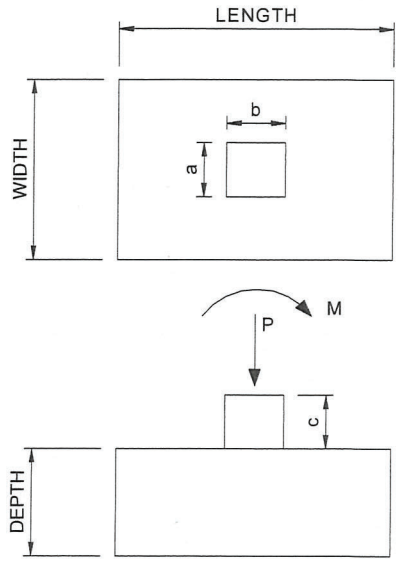
M(MAX)=	4877	ft-lbs	Pmax=	10.67	kips
S3=	100	PCF X d	Footing Area=	7.07	ft^2
b=	3.000	ft	Bearing=	1509.44	psf
d=	4.103	ft			
Footing=	Round				

USE: 3.00 FT.RND. X 5.00 ft deep footing

As=12*M/(jd*24000)= 0.0653 in^2

USE: 8 #8's (RND. Cage) w/ #4 Ties @ 12" O.C. w/135 hooks

P dl =	2713	lbs
P ll =	7957	lbs
P w =	-5296	lbs
M =	4877	ft-lbs
Soil Density =	110	pcf
Width =	4.50	ft
Length =	4.50	ft
Depth =	3.00	ft
a =	0.00	ft
b =	0.00	ft
c =	0.00	ft
Footing Weight =	9112.5	lbs
Soil Weight =	0	lbs



Overturning :

OTM =	4877	ft-lbs	
RM =	12250	ft-lbs	
FS =	2.51	> 1.5 Therefore OK	

Soil Pressure :

q(dl+ll) =	526.89	psf Net	
q(ALLOW) =	1500	psf	OK

For dl+(wl, seismic) :

P =	11825	lbs	
e=M/P=	0.41	ft	
L/6 =	0.75	ft	
Resultant within middle 3rd			
q(dl+wl, seismic)=	455.06	psf Net	
q(ALLOW)=	1500.00	psf	OK

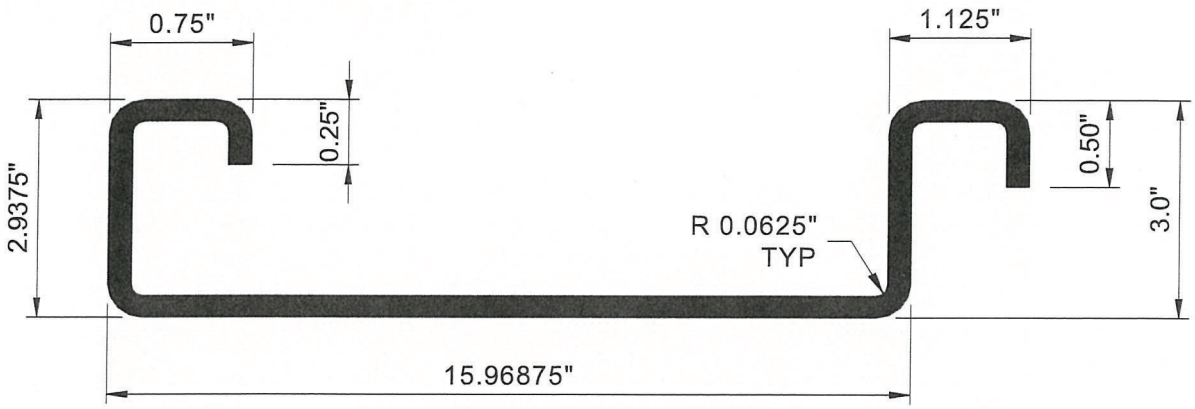
REINFORCING:

M(dl+ll) =	1333.70	ft-lbs/ft
M(dl+wl, seismic) =	517.28	ft-lbs/ft
dl+ll Controls		
Assume: f'c=2500 psi, Fy=40000 psi		
d =	32.63	in
As(REQ'D)=	0.03	in^2
As(PROV.)=	0.44	in^2

USE #6's AT 12"O.C. T&B, EACH WAY

LANE SUPPLY, INC.

120 Fairview
Arlington, Texas 76010
817-261-9116



SL-316 DECK PANEL

Section Properties

Gage	Wt, psf	Thickness, in	ASTM 653	+I, in^4	-I, in^4	+S, in^3	-S, in^3	+M, ft-lbs/ft	-M, ft-lbs/ft
20	2.20	0.0359	Grade 40	0.9346	0.4680	0.3961	0.3036	592.70	454.44
			Grade 50	0.9208	0.4522	0.3879	0.2880	725.86	538.92
18	2.93	0.0478	Grade 40	1.2486	0.6827	0.5329	0.4377	797.77	655.28
			Grade 50	1.2129	0.6518	0.5141	0.4296	962.09	803.92

Notes:

1 Designed per AISI Cold Formed Steel Manual, 2016 ed.
2 Complete calculations are available upon request.
3 ± M is allowable bending moment.

Issued 12-5-17

LANE SUPPLY, INC.

120 Fairview
Arlington, Texas 76010
817-261-9116
FAX 817-275-1660

STANDARD BASE PLATE DESIGN

LBP # (D - M)	M (ft-k)	P_{BOLT} (k)	Bolt Dia. (in)	$t_{REQ'D}$ (in)	t_{ACTUAL} (in)	Weld Req'd (1/16 in)	Weld Actual (in)	Base Plate Mark
8 - 10	10	5.58	1 1/2	0.72	3/4	1.52	1/4	LBP 1
8 - 20	20	10.91	1 1/2	0.99	1	3.03	5/16	LBP 2
8 - 30	30	16.00	1 1/2	1.17	1 1/4	4.55	5/16	LBP 3
8 - 40	40	20.87	1 1/2	1.32	1 1/2	6.06	F.P.	LBP 4
8 - 50	50	26.09	1 1/2	1.46	1 1/2	7.58	F.P.	LBP 5

TS 8 X 8 COLUMN:

D= 8 in.
e= 2 in.
b,d= 8 in.

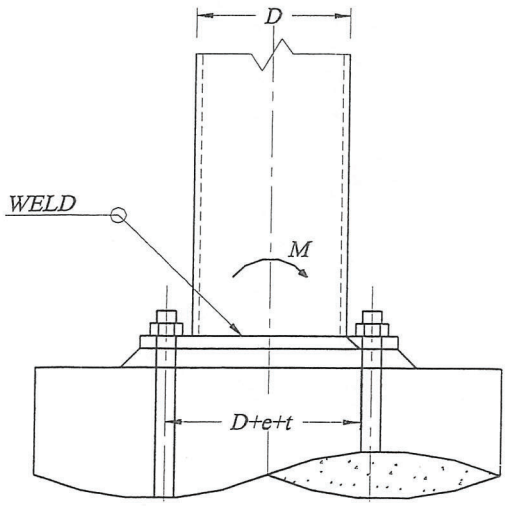
CONSTANTS:

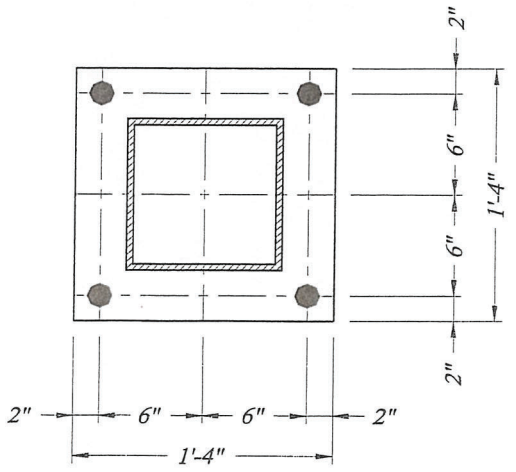
A36 Steel Plate	Fy = 36 ksi
E70xx Electrode	Fw = 0.928 k/in/16th
A307 Anchor Bolts	Ft = 20 ksi

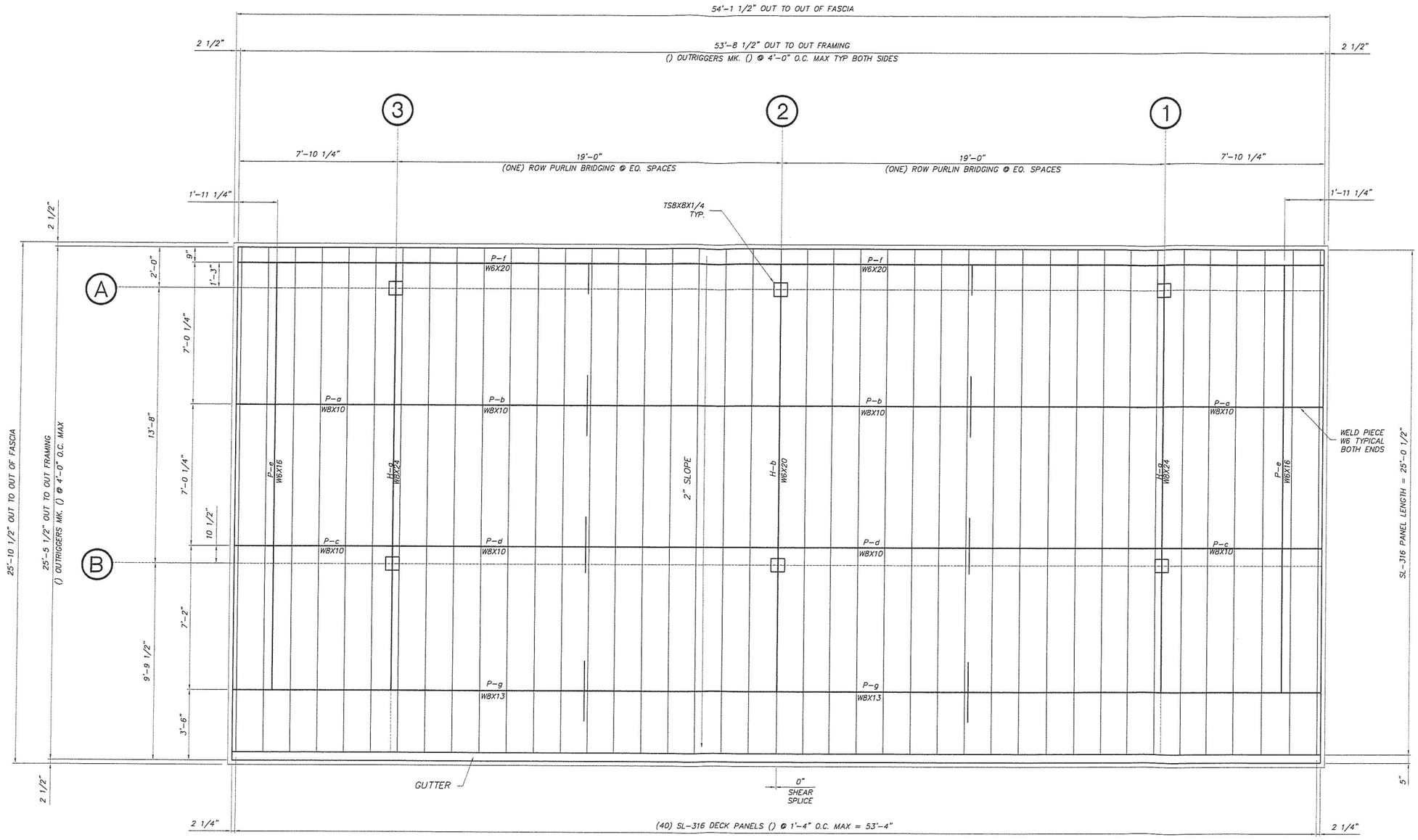
EQUATIONS:

$$P_{BOLT} = \frac{M \times 12\ in/ft}{2\ bolts\ (D+e+t)} \qquad Weld = \frac{M \times 12\ in/ft}{S_{Weld} \times Fw} = \frac{M \times 12\ in/ft}{Fw\ (bd+d^2/3)}$$

$$t_{REQ'D} = \sqrt{\frac{6 \times P \times e \times 2\ bolts}{0.75 \times Fy \times (D+2t)}}$$







DESIGN LOADS:

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V_ULT = 116 m.p.h. EXP. C
WND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f.
Ce = 1.2
Ct = 1.2
Is = 1.0
W = DRIFT LOADS NOT CONSIDERED
Pd = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 0.84 KIPS

LANE SUPPLY, INC.

120 Fairview
Arlington, TX 76010
817-261-9116

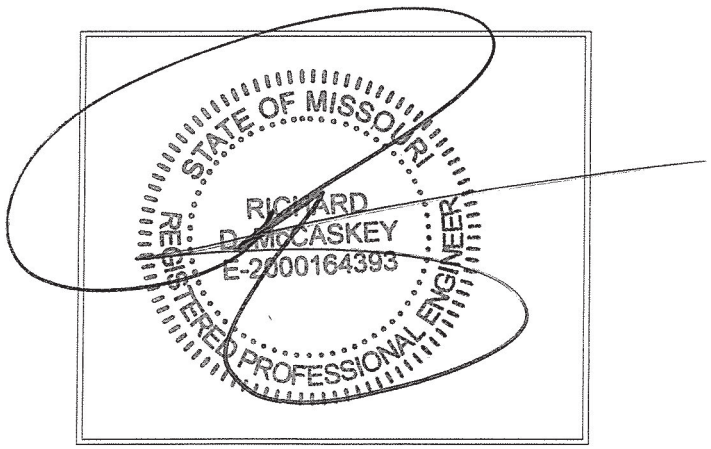
DESIGN CALCULATIONS FOR :

Chick-fil-A #02859 Outside Meal Delivery Canopy
690 NW Blue Parkway
Lee's Summit, MO

Eight-Column Canopy :	30'-0" X 61'-9" Canopy
Lane Reference Number :	LSC-75967 Rev 1
Date :	13-Jul-24

TABLE OF CONTENTS :

Engineer's Seal :



C.O.A. 2001015838

JUL 17 2024

Calculations By:	**Lane Supply, Inc.**	*LSC -* 75967 Rev 1
Customer:	Chick-fil-A #02859 Outside Meal Delivery Canopy	*By:* JO
Project:	30'-0" X 61'-9" Canopy	*Check:*

Code: **Missouri Building Code 2018**
2018 International Buidling Code

Roof Loads:

Dead Load =	3.00	psf	(SL-316 Deck)
Live/Snow Load =	20.00	psf	
TOTAL =	23.00	psf	

Fascia Load:

Height =	10.00	in.
Dead Load =	5.83	plf

Wind Loads:

Risk Category =	II			
V, ULT Speed =	116	m.p.h. Exp	C	
V, ASD Speed =	90	m.p.h. Exp	C	
Height =	15	ft		
Kd =	0.85			
Kh =	0.85			
G =	0.85			
qz =	14.93	psf		

Lateral Load =	1.0	(H)•qz =	16.00	psf
Deck Uplift =	-1.7	(V)•G•qz =	-21.58	psf
Frame Uplift =	-1.1	(V)•G•qz =	-13.96	psf

Base Shear : V = CS • W = 0.084 • W

Site Class =	D		
Risk Category =	II		
Ss(0.2) =	0.099		
S1(1.0) =	0.068		
Fa =	1.60		
Fv =	2.40		
SMS = Fa•Ss =	0.16	(11.4-1)	
SM1 = Fv•S1 =	0.16	(11.4-2)	
SDS = 2/3•SMS =	0.11	(11.4-3)	
SD1 = 2/3•SM1 =	0.11	(11.4-4)	
R =	1.25		
CS = (SDS/R) =	0.084	(12.8-2)	

Seismic Design Category Based on SDS : A
Seismic Design Category Based on SD1 : B

Design Category : B

Section 7.1.2--Symbols & Notation

Ce = 1.2 Exposure Factor as determined from Table 7.3-1
Ct = 1.2 Thermal factor as determined from Table 7.3-2
D = Snow Density in pcf as determined from Eq. 7.7-1
hb = Height of balanced snow load determined by dividing Pf by D, in feet.
hd = Height of snow drift, in feet
hc = Clear height from top of balanced snow to top of parapet, ft
hr = 6.00 = Fascia height, ft
Is = 1.0 = Importance factor (see Table 1.5-2).
Pf = Snow load on flat roofs, psf.
Pg = 20 =ground snow, psf.
Pd = Maximum intensity of drift surcharge load, psf.
lu = 30.42 = Length of roof upwind of the drift, feet
w = Width of snow drift, in feet

Section 7.3--Flat-Roof Snow Loads, Pf

The snow load, Pf, on a roof with a slope equal to or less than 5° shall be calculated in psf using equation 7.3-1, but not less than th following mimimum values for low slope roofs: where Pg is 20 psf or less Pf = I(Pg), where Pg exceeds 20 psf, Pf = 20 (I).

Section 7.7 & Section 7.8

The geometrey of the surcharge load due to snow drifting shall be approximated by a triangle as shown in figure 7.7-2. Drift loads shall be superimposed on the balanced snow load. If hc/hb is less than 0.2, drift loads are not required to be applied.
The height of such drifts shall be taken as 0.75 x hd as determined from Fig 7.6-1, with lu equal to the length of the roof upwind of the projection or parapet wall. If the side of a roof projection is less than 15 ft long, a drift load is not required to be applied to that side. If the height, hd, is equal to or less than hc, the drift width shall equal 4hd and the drft height shall equal hd. If this height exceeds hc, the drift width, w, shall equal 4 hd^2/hc and the drift height shall equal hc. However, the drift width w shall not exceed 8hc. The maximum intensity of the drift surcharge load, pd, equals hd x D where the snow density, D, is defined by Eq 7.7-

Section 7.10--Rain-On-Snow Surcharge Load

For locations where Pg is 20 psf or less but not zero, all roofs with a slope less than W/50, shall have a 5 psf rain-on-snow surcharge load appled to establish the design snow loads. This additional load applies only to the slped roof (balanced) load case and need not be used in combination with drift, sliding, unbalanced, or partial loads.

Pf = 0.7 x Ce x Ct x Is x Pg *Eq 7.3-1*
Pf = 20.0 psf
hd = 0.75 x (0.43(lu)^1/3 x (Pg+10)^1/4-1.5) *Ref. Fig. 7.6-1*
hd = 1.23 ft
D = 0.13Pg + 14 < 30 psf *Eq 7.7-1*
D = 16.60 psf
hb = 1.20 ft
hc =hr-hb = 4.80 ft
hc/hb = 3.98
Consider Drift
w = 4.92 ft

Pd = D x hd<D x hc
Pd = 20.44 psf

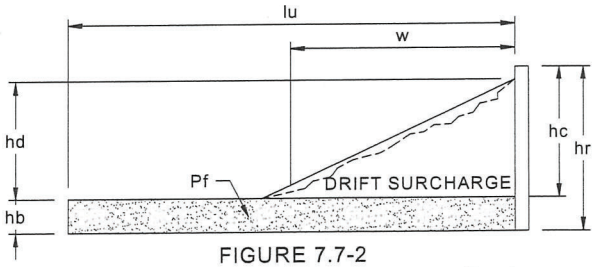


FIGURE 7.7-2
Configuration of Snow Drifts on Lower Roofs

DECK DESIGN: Deck 1

```
 | P1                                                                                P2 |
 v                  23.00  PSF          o          o           o                      v
 ==========================================================================================
               ^A                      ^B         ^C          ^D                   ^E
 |<---- X1 ---> |<-----------L1--------------> |<----L2----> |<----L3----> |<------------L4------------> |<----X2---->|
```

Wd=	3.00	psf	X1=	1.75	ft
Wl=	20.00	psf	L1=	6.00	ft
Deck : Ww=	-21.58	psf	L2=	6.00	ft
Frame : Ww=	-13.96	psf	L3=	6.00	ft
P1=	5.83	plf	L4=	7.25	ft
P2=	5.83	plf	X2=	3.00	ft

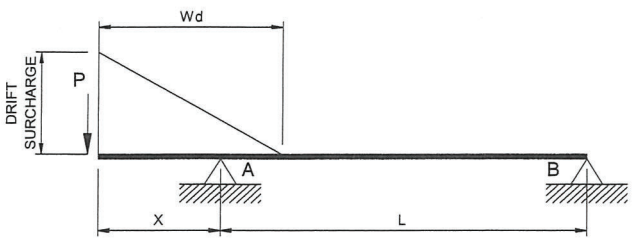
MAd=	14.80	ft-lbs/ft
MAl=	30.63	ft-lbs/ft
Deck : MAw=	-33.04	ft-lbs/ft
MA(d+l)=	45.43	ft-lbs/ft
Deck : MA(d+w)=	-18.24	ft-lbs/ft
MAB(d+l)=	96.23	ft-lbs/ft
Deck : MAB(d+w)=	-74.73	ft-lbs/ft
MBC(d+l)=	103.50	ft-lbs/ft
Deck : MBC(d+w)=	-83.60	ft-lbs/ft
MCD(d+l)=	103.50	ft-lbs/ft
Deck : MCD(d+w)=	-83.60	ft-lbs/ft
MDE(d+l)=	136.01	ft-lbs/ft
Deck : MDE(d+w)=	-91.25	ft-lbs/ft
MEd=	31.00	ft-lbs/ft
MEl=	90.00	ft-lbs/ft
Deck : MEw=	-97.10	ft-lbs/ft
ME(d+l)=	121.00	ft-lbs/ft
Deck : ME(d+w)=	-66.10	ft-lbs/ft

RAd=	22.55	plf
RAl=	100.10	plf
Frame : RAw=	-69.88	plf
RA(d+l)=	122.65	plf
Frame : RA(d+w)=	-47.33	plf
RBd=	15.53	plf
RBl=	120.00	plf
Frame : RBw=	-80.21	plf
RB(d+l)=	135.53	plf
Frame : RB(d+w)=	-64.68	plf
RCd=	18.00	plf
RCl=	120.00	plf
Frame : RCw=	-83.77	plf
RC(d+l)=	138.00	plf
Frame : RC(d+w)=	-65.77	plf
RDd=	15.60	plf
RDl=	132.50	plf
Frame : RDw=	-83.83	plf
RD(d+l)=	148.10	plf
Frame : RD(d+w)=	-68.23	plf
REd=	29.98	plf
REl=	144.91	plf
Frame : REw=	-101.17	plf
RE(d+l)=	174.90	plf
Frame : RE(d+w)=	-71.18	plf

USE 20 GAUGE GRADE C DECK

+S=.3961 in^3 -S=.3036 in^3 FY=40 ksl

wd=	3.00	psf
ws=	20.00	psf
Deck : ww=	-21.58	psf
Frame : ww=	-13.96	psf
P=	5.83	plf
(Drift Surcharge)Pm=	20.44	psf
L=	6.00	ft
X=	1.75	ft
(Drift Length) Wd=	4.92	ft



RAd=	22.55	plf	RBd=	6.53	plf
RAs=	151.33	plf	RBs=	53.98	plf
Frame : RAw=	-69.88	plf	Frame : RBw=	-38.32	plf
Deck : RAw=	-108.00	plf	Deck : RBw=	-59.23	plf
RA(d+s)=	173.88	plf	RB(d+s)=	60.52	plf
Frame : RA(d+w)=	-47.33	plf	Frame : RB(d+w)=	-31.79	plf
Deck : RA(d+w)=	-85.45	plf	Deck : RB(d+w)=	-52.69	plf

MAd =	-14.80	ft-lbs/ft			
MAs =	-58.21	ft-lbs/ft			
Deck : MAw =	33.04	ft-lbs/ft			
MA(d+s)=	-73.01	ft-lbs/ft	MAB(d+s)=	79.59	ft-lbs/ft
Deck : MA(d+w)=	18.24	ft-lbs/ft	Deck : MAB(d+w)=	-74.73	ft-lbs/ft

USE 20 GAUGE GRADE C DECK

+S=.3961 in^3 -S=.3036 in^3 FY=40 ksi

DECK DESIGN:

Wd=	3.00	psf	23.00 psf		
Wl=	20.00	psf	^A		B^
Deck : Ww=	-21.58	psf	|<-------	L	-------\>|
Frame : Ww=	-13.96	psf			
			Rd=	9.00	plf
L=	6.00	ft	Rl=	60.00	plf
			Frame : Rw=	-41.89	plf
			Deck : Rw=	-64.73	plf
M(d+l)=	103.50	ft-lbs/ft	R(d+l)=	69.00	plf
Deck : M(d+w)=	-83.60	ft-lbs/ft	Frame : R(d+w)=	-32.89	plf
			Deck : R(d+w)=	-55.73	plf

USE 20 GAUGE GRADE C DECK

+S=.3961 in^3 -S=.3036 in^3 FY=40 ksi

DECK DESIGN: Deck 2

```
 | P1                                                                          P2 |
 v                    23.00  PSF            o         o         o                   v
=====================================================================================
                ^A                          ^B        ^C        ^D                  ^E
|<---- X1 ---> |<-----------L1------------> |<----L2----> |<----L3----> |<------------L4------------> |<----X2---->|
```

Wd=	3.00	psf	X1=	0.75	ft
Wl=	20.00	psf	L1=	6.00	ft
Deck : Ww=	-21.58	psf	L2=	6.00	ft
Frame : Ww=	-13.96	psf	L3=	6.00	ft
P1=	5.83	plf	L4=	7.25	ft
P2=	5.83	plf	X2=	3.00	ft

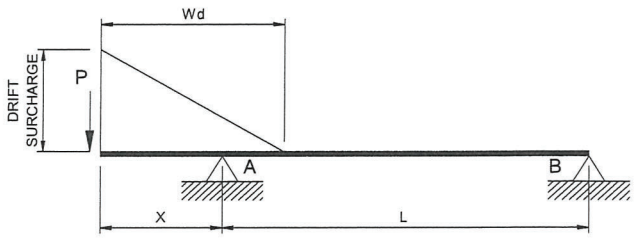
MAd=	5.22	ft-lbs/ft
MAl=	5.63	ft-lbs/ft
Deck : MAw=	-6.07	ft-lbs/ft
MA(d+l)=	10.84	ft-lbs/ft
Deck : MA(d+w)=	-0.85	ft-lbs/ft
MAB(d+l)=	100.91	ft-lbs/ft
Deck : MAB(d+w)=	-83.18	ft-lbs/ft
MBC(d+l)=	103.50	ft-lbs/ft
Deck : MBC(d+w)=	-83.60	ft-lbs/ft
MCD(d+l)=	103.50	ft-lbs/ft
Deck : MCD(d+w)=	-83.60	ft-lbs/ft
MDE(d+l)=	136.01	ft-lbs/ft
Deck : MDE(d+w)=	-91.25	ft-lbs/ft
MEd=	31.00	ft-lbs/ft
MEl=	90.00	ft-lbs/ft
Deck : MEw=	-97.10	ft-lbs/ft
ME(d+l)=	121.00	ft-lbs/ft
Deck : ME(d+w)=	-66.10	ft-lbs/ft

RAd=	17.95	plf
RAl=	75.94	plf
Frame : RAw=	-53.01	plf
RA(d+l)=	93.89	plf
Frame : RA(d+w)=	-35.06	plf
RBd=	17.13	plf
RBl=	120.00	plf
Frame : RBw=	-83.12	plf
RB(d+l)=	137.13	plf
Frame : RB(d+w)=	-65.99	plf
RCd=	18.00	plf
RCl=	120.00	plf
Frame : RCw=	-83.77	plf
RC(d+l)=	138.00	plf
Frame : RC(d+w)=	-65.77	plf
RDd=	15.60	plf
RDl=	132.50	plf
Frame : RDw=	-83.83	plf
RD(d+l)=	148.10	plf
Frame : RD(d+w)=	-68.23	plf
REd=	29.98	plf
REl=	144.91	plf
Frame : REw=	-101.17	plf
RE(d+l)=	174.90	plf
Frame : RE(d+w)=	-71.18	plf

USE 20 GAUGE GRADE C DECK

+S=.3961 in^3 -S=.3036 in^3 FY=40 ksl

wd=	3.00	psf
ws=	20.00	psf
Deck : ww=	-21.58	psf
Frame : ww=	-13.96	psf
P=	5.83	plf
(Drift Surcharge)Pm=	20.44	psf
L=	6.00	ft
X=	0.75	ft
(Drift Length) Wd=	4.92	ft



RAd=	17.95	plf	RBd=	8.13	plf
RAs=	118.78	plf	RBs=	66.54	plf
Frame : RAw=	-53.01	plf	Frame : RBw=	-41.23	plf
Deck : RAw=	-81.93	plf	Deck : RBw=	-63.72	plf
RA(d+s)=	136.73	plf	RB(d+s)=	74.67	plf
Frame : RA(d+w)=	-35.06	plf	Frame : RB(d+w)=	-33.10	plf
Deck : RA(d+w)=	-63.98	plf	Deck : RB(d+w)=	-55.59	plf

MAd =	-5.22	ft-lbs/ft			
MAs =	-11.08	ft-lbs/ft			
Deck : MAw =	6.07	ft-lbs/ft			
MA(d+s)=	-16.30	ft-lbs/ft	MAB(d+s)=	119.51	ft-lbs/ft
Deck : MA(d+w)=	0.85	ft-lbs/ft	Deck : MAB(d+w)=	-83.04	ft-lbs/ft

USE 20 GAUGE GRADE C DECK

+S=.3961 in^3 -S=.3036 in^3 FY=40 ksi

DECK DESIGN:

Wd=	3.00	psf	23.00 psf		
Wl=	20.00	psf	^A		B^
Deck : Ww=	-21.58	psf	|<-------	L	------->|
Frame : Ww=	-13.96	psf			
			Rd=	9.00	plf
L=	6.00	ft	Rl=	60.00	plf
			Frame : Rw=	-41.89	plf
			Deck : Rw=	-64.73	plf
M(d+l)=	103.50	ft-lbs/ft	R(d+l)=	69.00	plf
Deck : M(d+w)=	-83.60	ft-lbs/ft	Frame : R(d+w)=	-32.89	plf
			Deck : R(d+w)=	-55.73	plf

USE 20 GAUGE GRADE C DECK

+S=.3961 in^3 -S=.3036 in^3 FY=40 ksi

BEAM DESIGN: P-a

Wd=	37.55	plf					
Wl=	151.33	plf					
Ww=	-69.88	plf					
Pd=	29.20	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	17.77	ft					
X=	3.79	ft					
MA(d) =	381	ft-lbs					
MA(l) =	1088	ft-lbs					
MA(w) =	-502	ft-lbs					
MA(d+l) =	1468	ft-lbs	lu=				
MA(d+w) =	-122	ft-lbs	lu=				
MAB(d+l)=	7267	ft-lbs	lu=				
MAB(d+w)=	-1216	ft-lbs	lu=				

	P		
	v	188.88	plf
		^A	B^
	|<-----X---->	|<----------	L ---------->|

Deflections: (inches)	Overhang	Midspan
DL=	-0.029	0.051
DL+LL=	-0.160	0.268
(+downward, -upward)		

RAd=	527	lbs	
RAl=	1980	lbs	
RAw=	-914	lbs	
RA(d+l)=	2506	lbs	
RA(d+w)=	-388	lbs	
RBd=	312	lbs	
RBl(Max)=	1345	lbs	
RBw=	-593	lbs	
RB(d+l)=	1657	lbs	
RB(d+w)=	-280	lbs	

	1.33	ft		
	3.79	ft		
	8.89	ft		
	1.33	ft		

USE: W8X15 Fy = 50 ksi

BEAM DESIGN: P-b

Wd=	25.53	plf					
Wl=	120.00	plf					
Ww=	-80.21	plf					
Pd=	33.51	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	17.77	ft					
X=	3.79	ft					
MA(d) =	311	ft-lbs					
MA(l) =	863	ft-lbs					
MA(w) =	-577	ft-lbs					
MA(d+l) =	1173	ft-lbs	lu=				
MA(d+w) =	-266	ft-lbs	lu=				
MAB(d+l)=	5591	ft-lbs	lu=				
MAB(d+w)=	-2027	ft-lbs	lu=				

	P		
	v	145.53	plf
		^A	B^
	|<-----X---->	|<----------	L ---------->|

Deflections: (inches)	Overhang	Midspan
DL=	-0.028	0.052
DL+LL=	-0.190	0.321
(+downward, -upward)		

RAd=	375	lbs	
RAl=	1570	lbs	
RAw=	-1049	lbs	
RA(d+l)=	1944	lbs	
RA(d+w)=	-675	lbs	
RBd=	209	lbs	
RBl(Max)=	1066	lbs	
RBw=	-680	lbs	
RB(d+l)=	1276	lbs	
RB(d+w)=	-471	lbs	

	1.33	ft		
	3.79	ft		
	8.89	ft		
	1.33	ft		

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-c

Wd=	28.00	plf					
Wl=	120.00	plf					
Ww=	-83.77	plf					
Pd=	35.00	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	17.77	ft					
X=	3.79	ft					
MA(d) =	334	ft-lbs					
MA(l) =	863	ft-lbs					
MA(w) =	-602	ft-lbs					
MA(d+l) =	1197	ft-lbs	lu=	1.33	ft		
MA(d+w) =	-268	ft-lbs	lu=	3.79	ft		
MAB(d+l)=	5677	ft-lbs	lu=	8.89	ft		
MAB(d+w)=	-2070	ft-lbs	lu=	1.33	ft		

		v	148.00 plf
		^A	B^
		|<-----X---->	|<---------- L ----------\>|

Deflections: (inches)	Overhang	Midspan
DL=	-0.031	0.058
DL+LL=	-0.193	0.326
(+downward, -upward)		

RAd=	409	lbs	
RAl=	1570	lbs	
RAw=	-1096	lbs	
RA(d+l)=	1979	lbs	
RA(d+w)=	-687	lbs	
RBd=	230	lbs	
RBl(Max)=	1066	lbs	
RBw=	-710	lbs	
RB(d+l)=	1296	lbs	
RB(d+w)=	-480	lbs	

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-d

Wd=	25.60	plf					
Wl=	132.50	plf					
Ww=	-83.83	plf					
Pd=	35.03	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	17.77	ft					
X=	3.79	ft					
MA(d) =	317	ft-lbs					
MA(l) =	952	ft-lbs					
MA(w) =	-603	ft-lbs					
MA(d+l) =	1269	ft-lbs	lu=	1.33	ft		
MA(d+w) =	-286	ft-lbs	lu=	3.79	ft		
MAB(d+l)=	6084	ft-lbs	lu=	8.89	ft		
MAB(d+w)=	-2158	ft-lbs	lu=	1.33	ft		

		v	158.10 plf
		^A	B^
		|<-----X---->	|<---------- L ----------\>|

Deflections: (inches)	Overhang	Midspan
DL=	-0.028	0.052
DL+LL=	-0.207	0.349
(+downward, -upward)		

RAd=	377	lbs	
RAl=	1733	lbs	
RAw=	-1097	lbs	
RA(d+l)=	2111	lbs	
RA(d+w)=	-719	lbs	
RBd=	210	lbs	
RBl(Max)=	1177	lbs	
RBw=	-711	lbs	
RB(d+l)=	1387	lbs	
RB(d+w)=	-501	lbs	

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-e

Wd=	39.98	plf					
Wl=	144.91	plf					
Ww=	-101.17	plf					
Pd=	42.27	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	17.77	ft					
X=	3.79	ft					
MA(d) =	448	ft-lbs					
MA(l) =	1042	ft-lbs					
MA(w) =	-727	ft-lbs					
MA(d+l) =	1489	ft-lbs	lu=	1.33	ft		
MA(d+w) =	-280	ft-lbs	lu=	3.79	ft		
MAB(d+l)=	7077	ft-lbs	lu=	8.89	ft		
MAB(d+w)=	-2277	ft-lbs	lu=	1.33	ft		

P			
v	184.90	plf	
	^A		B^
|<-----X---->	|<----------	L ----------->|

Deflections: (inches)	Overhang	Midspan
DL=	-0.046	0.083
DL+LL=	-0.242	0.408
(+downward, -upward)		

RAd=	574	lbs
RAl=	1896	lbs
RAw=	-1323	lbs
RA(d+l)=	2470	lbs
RA(d+w)=	-749	lbs
RBd=	330	lbs
RBl(Max)=	1288	lbs
RBw=	-858	lbs
RB(d+l)=	1618	lbs
RB(d+w)=	-528	lbs

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-f

Wd=	32.95	plf
Wl=	118.78	plf
Ww=	-53.01	plf
L=	20.00	ft

151.73 plf

^ ^

|<---------- L -------->|

Md=	1647.7	ft-lbs	Rd=	330	lbs
Ml=	5938.8	ft-lbs	Rl=	1188	lbs
Mw=	-2650.7	ft-lbs	Rw=	-530	lbs
			R(d+l)=	1517	lbs
			R(d+w)=	-201	lbs
M(d+l)=	7586.4	ft-lbs	Lu=	6.67	ft
M(d+w)=	-1003.0	ft-lbs	Lu=	1.33	ft

OK

OK

USE: W8X15 Fy = 50 ksi

Deflections: (inches)	Midspan
DL=	0.085
DL+LL=	0.392
(+downward, -upward)	

BEAM DESIGN: P-g

Wd=	32.13	plf			
Wl=	126.54	plf			
Ww=	-83.12	plf			
L=	20.00	ft			
	158.67	plf			
	|<---------- L --------->|		Rd=	321	lbs
			Rl=	1265	lbs
Md=	1606.5	ft-lbs	Rw=	-831	lbs
Ml=	6326.8	ft-lbs	R(d+l)=	1587	lbs
Mw=	-4156.0	ft-lbs	R(d+w)=	-510	lbs
M(d+l)=	7933.4	ft-lbs	Lu=	6.67	ft OK
M(d+w)=	-2549.5	ft-lbs	Lu=	1.33	ft OK

USE: W8X15 Fy = 50 ksi

Deflections: (inches)	Midspan
DL=	0.083
DL+LL=	0.410

(+downward, -upward)

BEAM DESIGN: P-h

Wd=	31.00	plf			
Wl=	120.00	plf			
Ww=	-83.77	plf			
L=	20.00	ft			
	151.00	plf			
	|<---------- L --------->|		Rd=	310	lbs
			Rl=	1200	lbs
Md=	1550.0	ft-lbs	Rw=	-838	lbs
Ml=	6000.0	ft-lbs	R(d+l)=	1510	lbs
Mw=	-4188.7	ft-lbs	R(d+w)=	-528	lbs
M(d+l)=	7550.0	ft-lbs	Lu=	6.67	ft OK
M(d+w)=	-2638.7	ft-lbs	Lu=	1.33	ft OK

USE: W8X13 Fy = 50 ksi

Deflections: (inches)	Midspan
DL=	0.097
DL+LL=	0.473

(+downward, -upward)

BEAM DESIGN: P-i

Wd=	28.60	plf				
Wl=	132.50	plf				
Ww=	-83.83	plf				
L=	20.00	ft				
	161.10	plf				
	^	^				
	|<----------	L --------->|	Rd=	286	lbs	
			Rl=	1325	lbs	
Md=	1430.0	ft-lbs	Rw=	-838	lbs	
Ml=	6625.0	ft-lbs	R(d+l)=	1611	lbs	
Mw=	-4191.7	ft-lbs	R(d+w)=	-552	lbs	
M(d+l)=	8055.0	ft-lbs	Lu=	6.67	ft	OK
M(d+w)=	-2761.7	ft-lbs	Lu=	1.33	ft	OK

USE: W8X13 Fy = 50 ksi

Deflections: (inches)	Midspan
DL=	0.090
DL+LL=	0.505

(+downward, -upward)

BEAM DESIGN: P-j

Wd=	44.98	plf				
Wl=	144.91	plf				
Ww=	-101.17	plf				
L=	20.00	ft				
	189.90	plf				
	^	^				
	|<----------	L --------->|	Rd=	450	lbs	
			Rl=	1449	lbs	
Md=	2249.2	ft-lbs	Rw=	-1012	lbs	
Ml=	7245.7	ft-lbs	R(d+l)=	1899	lbs	
Mw=	-5058.3	ft-lbs	R(d+w)=	-562	lbs	
M(d+l)=	9494.9	ft-lbs	Lu=	6.67	ft	OK
M(d+w)=	-2809.1	ft-lbs	Lu=	1.33	ft	OK

USE: W8X15 Fy = 50 ksi

Deflections: (inches)	Midspan
DL=	0.116
DL+LL=	0.491

(+downward, -upward)

BEAM DESIGN: P-k

Wd=	37.55	plf					
Wl=	151.33	plf					
Ww=	-69.88	plf					
Pd=	29.20	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	18.83	ft					
X=	1.31	ft					
MA(d) =	71	ft-lbs					
MA(l) =	130	ft-lbs					
MA(w) =	-60	ft-lbs					
MA(d+l) =	201	ft-lbs	lu=	1.33	ft		
MA(d+w) =	10	ft-lbs	lu=	1.31	ft		
MAB(d+l)=	8339	ft-lbs	lu=	9.42	ft		
MAB(d+w)=	-1439	ft-lbs	lu=	1.33	ft		

| P	
v	188.88 plf
	^A B^
|<-----X---->	|<---------- L ----------\>|

Deflections: (inches)	Overhang	Midspan
DL=	-0.016	0.074
DL+LL=	-0.083	0.379
(+downward, -upward)		

RAd=	436	lbs			
RAl=	1631	lbs			
RAw=	-753	lbs			
RA(d+l)=	2066	lbs			
RA(d+w)=	-317	lbs			
RBd=	350	lbs			
RBl(Max)=	1425	lbs			
RBw=	-655	lbs			
RB(d+l)=	1775	lbs			
RB(d+w)=	-305	lbs			

USE: W8X15 Fy = 50 ksi

BEAM DESIGN: P-l

Wd=	25.53	plf					
Wl=	120.00	plf					
Ww=	-80.21	plf					
Pd=	33.51	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	18.83	ft					
X=	1.31	ft					
MA(d) =	66	ft-lbs					
MA(l) =	103	ft-lbs					
MA(w) =	-69	ft-lbs					
MA(d+l) =	169	ft-lbs	lu=	1.33	ft		
MA(d+w) =	-3	ft-lbs	lu=	1.31	ft		
MAB(d+l)=	6420	ft-lbs	lu=	9.42	ft		
MAB(d+w)=	-2423	ft-lbs	lu=	1.33	ft		

| P	
v	145.53 plf
	^A B^
|<-----X---->	|<---------- L ----------\>|

Deflections: (inches)	Overhang	Midspan
DL=	-0.017	0.078
DL+LL=	-0.100	0.454
(+downward, -upward)		

RAd=	311	lbs			
RAl=	1293	lbs			
RAw=	-864	lbs			
RA(d+l)=	1604	lbs			
RA(d+w)=	-553	lbs			
RBd=	237	lbs			
RBl(Max)=	1130	lbs			
RBw=	-752	lbs			
RB(d+l)=	1367	lbs			
RB(d+w)=	-515	lbs			

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-m

Wd=	28.00	plf					
Wl=	120.00	plf					
Ww=	-83.77	plf					
Pd=	35.00	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	18.83	ft					
X=	1.31	ft					
MA(d) =	70	ft-lbs					
MA(l) =	103	ft-lbs					
MA(w) =	-72	ft-lbs					
MA(d+l) =	173	ft-lbs	lu=	1.33	ft		
MA(d+w) =	-2	ft-lbs	lu=	1.31	ft		
MAB(d+l)=	6527	ft-lbs	lu=	9.42	ft		
MAB(d+w)=	-2472	ft-lbs	lu=	1.33	ft		

		| P	
		v	148.00 plf
		^A	B^
		|<-----X---->	|<---------- L ----------\>|

Deflections: (inches)	Overhang	Midspan
DL=	-0.019	0.086
DL+LL=	-0.102	0.462
(+downward, -upward)		

RAd=	339	lbs	
RAl=	1293	lbs	
RAw=	-903	lbs	
RA(d+l)=	1632	lbs	
RA(d+w)=	-564	lbs	
RBd=	260	lbs	
RBl(Max)=	1130	lbs	
RBw=	-785	lbs	
RB(d+l)=	1390	lbs	
RB(d+w)=	-525	lbs	

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-n

Wd=	25.60	plf					
Wl=	132.50	plf					
Ww=	-83.83	plf					
Pd=	35.03	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	18.83	ft					
X=	1.31	ft					
MA(d) =	68	ft-lbs					
MA(l) =	114	ft-lbs					
MA(w) =	-72	ft-lbs					
MA(d+l) =	182	ft-lbs	lu=	1.33	ft		
MA(d+w) =	-4	ft-lbs	lu=	1.31	ft		
MAB(d+l)=	6976	ft-lbs	lu=	9.42	ft		
MAB(d+w)=	-2580	ft-lbs	lu=	1.33	ft		

		| P	
		v	158.10 plf
		^A	B^
		|<-----X---->	|<---------- L ----------\>|

Deflections: (inches)	Overhang	Midspan
DL=	-0.017	0.078
DL+LL=	-0.109	0.493
(+downward, -upward)		

RAd=	313	lbs	
RAl=	1428	lbs	
RAw=	-903	lbs	
RA(d+l)=	1741	lbs	
RA(d+w)=	-590	lbs	
RBd=	237	lbs	
RBl(Max)=	1248	lbs	
RBw=	-786	lbs	
RB(d+l)=	1485	lbs	
RB(d+w)=	-548	lbs	

USE: W8X10 Fy = 50 ksi

BEAM DESIGN: P-o

Wd=	39.98	plf					
Wl=	144.91	plf					
Ww=	-101.17	plf					
Pd=	42.27	lbs					
Pl=	0.00	lbs					
Pw=	0.00	lbs					
L=	18.83	ft					
X=	1.31	ft					
MA(d) =	90	ft-lbs					
MA(l) =	125	ft-lbs					
MA(w) =	-87	ft-lbs					
MA(d+l) =	215	ft-lbs	lu=	1.33	ft		
MA(d+w) =	3	ft-lbs	lu=	1.31	ft		
MAB(d+l)=	8153	ft-lbs	lu=	9.42	ft		
MAB(d+w)=	-2714	ft-lbs	lu=	1.33	ft		

| P			
v	184.90	plf	
	^A		B^
|<-----X---->	|<----------	L ----------> |	

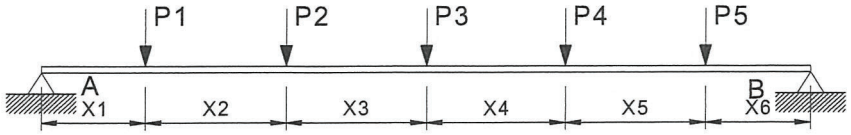
Deflections: (inches)	Overhang	Midspan
DL=	-0.027	0.123
DL+LL=	-0.127	0.577
(+downward, -upward)		

RAd=	476	lbs
RAl=	1561	lbs
RAw=	-1090	lbs
RA(d+l)=	2037	lbs
RA(d+w)=	-614	lbs
RBd=	372	lbs
RBl(Max)=	1365	lbs
RBw=	-948	lbs
RB(d+l)=	1736	lbs
RB(d+w)=	-576	lbs

USE: W8X10 Fy = 50 ksi

HEADER BEAM DESIGN: H-a

P1d=	527	lbs
P1l=	1980	lbs
P1w=	-914	lbs
P2d=	375	lbs
P2l=	1570	lbs
P2w=	-1049	lbs
P3d=	409	lbs
P3l=	1570	lbs
P3w=	-1096	lbs
P4d=	377	lbs
P4l=	1733	lbs
P4w=	-1097	lbs
P5d=	574	lbs
P5l=	1896	lbs
P5w=	-1323	lbs



X1 =	1.38	ft
X2 =	6.00	ft
X3 =	6.00	ft
X4 =	6.00	ft
X5 =	7.25	ft
X6 =	1.00	ft
L =	27.63	ft

Wd=	58.00	plf
Wl=	0.00	plf
Ww=	0.00	plf

RA(d)=	1921	lbs
RA(l)=	4428	lbs
RA(w)=	-2579	lbs
RA(d+l)=	6348	lbs
RA(d+w)=	-658	lbs

Deflection		
dl=	0.24	in
dl+ll=	0.77	in

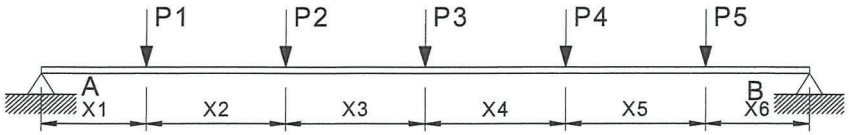
RB(d)=	1943	lbs
RB(l)=	4320	lbs
RB(w)=	-2901	lbs
RB(d+l)=	6264	lbs
RB(d+w)=	-957	lbs

Mspan(d+l) =	37979.5	ft-lbs	lu=	7.25 ft
Mspan(d+w) =	-5290.7	ft-lbs	lu=	7.25 ft

USE: W8X58 Fy = 50 ksi

HEADER BEAM DESIGN: H-b

P1d=	642	lbs
P1l=	2532	lbs
P1w=	-1123	lbs
P2d=	531	lbs
P2l=	2332	lbs
P2w=	-1511	lbs
P3d=	540	lbs
P3l=	2266	lbs
P3w=	-1548	lbs
P4d=	496	lbs
P4l=	2502	lbs
P4w=	-1549	lbs
P5d=	780	lbs
P5l=	2737	lbs
P5w=	-1870	lbs



X1 =	1.38	ft
X2 =	6.00	ft
X3 =	6.00	ft
X4 =	6.00	ft
X5 =	7.25	ft
X6 =	1.00	ft
L =	27.63	ft

Wd=	67.00	plf
Wl=	0.00	plf
Ww=	0.00	plf

RA(d)=	2379	lbs
RA(l)=	6131	lbs
RA(w)=	-3504	lbs
RA(d+l)=	8510	lbs
RA(d+w)=	-1125	lbs

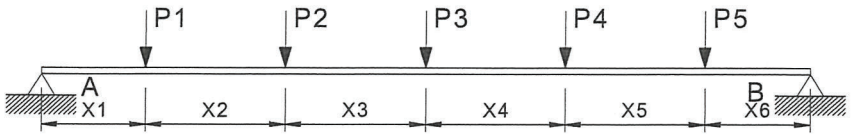
Deflection		
dl=	0.25	in
dl+ll=	0.89	in

RB(d)=	2460	lbs
RB(l)=	6238	lbs
RB(w)=	-4098	lbs
RB(d+l)=	8698	lbs
RB(d+w)=	-1638	lbs

Mspan(d+l) =	52564.0	ft-lbs	lu=	7.25 ft
Mspan(d+w) =	-9379.9	ft-lbs	lu=	7.25 ft

USE: W8X67 Fy = 50 ksi

P1d=	679	lbs
P1l=	2613	lbs
P1w=	-1185	lbs
P2d=	558	lbs
P2l=	2395	lbs
P2w=	-1583	lbs
P3d=	570	lbs
P3l=	2330	lbs
P3w=	-1623	lbs
P4d=	523	lbs
P4l=	2573	lbs
P4w=	-1624	lbs
P5d=	822	lbs
P5l=	2814	lbs
P5w=	-1960	lbs



X1 =	1.38	ft
X2 =	6.00	ft
X3 =	6.00	ft
X4 =	6.00	ft
X5 =	7.25	ft
X6 =	1.00	ft
L =	27.63	ft

Wd=	67.00	plf
Wl=	0.00	plf
Ww=	0.00	plf

RA(d)=	2460	lbs
RA(l)=	6311	lbs
RA(w)=	-3679	lbs
RA(d+l)=	8771	lbs
RA(d+w)=	-1219	lbs

RB(d)=	2543	lbs
RB(l)=	6414	lbs
RB(w)=	-4295	lbs
RB(d+l)=	8957	lbs
RB(d+w)=	-1752	lbs

Deflection

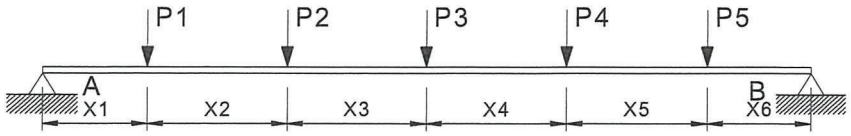
dl=	0.26	in
dl+ll=	0.91	in

Mspan(d+l) =	54091.1	ft-lbs	lu=	7.25 ft
Mspan(d+w) =	-10082.3	ft-lbs	lu=	7.25 ft

USE: W8X67 Fy = 50 ksi

HEADER BEAM DESIGN: H-d

P1d=	436	lbs
P1l=	1631	lbs
P1w=	-753	lbs
P2d=	311	lbs
P2l=	1293	lbs
P2w=	-864	lbs
P3d=	339	lbs
P3l=	1293	lbs
P3w=	-903	lbs
P4d=	313	lbs
P4l=	1428	lbs
P4w=	-903	lbs
P5d=	476	lbs
P5l=	1561	lbs
P5w=	-1090	lbs



X1 =	1.38	ft
X2 =	6.00	ft
X3 =	6.00	ft
X4 =	6.00	ft
X5 =	7.25	ft
X6 =	1.00	ft
L =	27.63	ft

Wd=	48.00	plf
Wl=	0.00	plf
Ww=	0.00	plf

RA(d)=	1591	lbs
RA(l)=	3647	lbs
RA(w)=	-2124	lbs
RA(d+l)=	5238	lbs
RA(d+w)=	-533	lbs

Deflection

dl=	0.25	in
dl+ll=	0.78	in

RB(d)=	1610	lbs
RB(l)=	3559	lbs
RB(w)=	-2389	lbs
RB(d+l)=	5169	lbs
RB(d+w)=	-779	lbs

Mspan(d+l) =	31342.8	ft-lbs	lu=	7.25 ft
Mspan(d+w) =	-4297.5	ft-lbs	lu=	7.25 ft

USE: W8X48 Fy = 50 ksi

Column Design **Col Line A** *AISC 15th ed, Use First Order Analysis Criteria*

P DL =	2.46	kips	Clr. Ht.=	10.17	ft
P LL =	6.31	kips	Fascia Ht.=	1.00	ft
P WL =	-3.68	kips	Col. Trib=	19.36	ft
Base Shear =	0.21	kips	Wind Load=	16.00	psf
Total Base Shear =	1.43	kips	# of COL.=	2	
M WL =	w(Fascia Ht•2.5•Col Trib./# of col•L)+ w(Wrap•1/2 Clr. Ht^2)		Max All. Defl =	1.28	in
M Seis =	Base Shear x L		Max Defl Ratio =	L/ 100	
M Unbal =	Live Load x Col. Trib.x (Canopy Width/2)^2/2		Max Defl. =	0.16	in, OK
L =	Clr. Ht. + Fascia Ht/2				

Pr = 8.77 kips 1.6Pr<0.5Py First-Order Analysis Allowed (A-7-1)

Py = 326.60 kips

N = 0.00 •Yi (A-7-2)

B2 = 1.05 OK, A-8-6

M WL = 4.96 kip-ft

M Seis = 2.25 kip-ft

M DL(Nod) = 0.11 kip-ft

M LL(Nod) = 0.28 kip-ft

M Unbal DL= 0.00 kip-ft

M Unbal LL= 0.00 kip-ft

M Unbal WL= 0.00 kip-ft

Use: TS8X8X1/4		
Fy =	46.00	ksi
K =	1.00	
L, Col =	10.67	ft
A =	7.10	in^2
I =	70.70	in^4
Cm =	1.00	
Pe1 =	393.14	kips
B1 =	1.04	(A-8-3)
P,All =	175.01	kips
M, All =	44.10	kip-ft

Load Combination	Pr, Kips	Mr, Kip-ft	Equation	Result
D+L	8.77	0.41	0.03	OK
D+W	2.46	5.25	0.13	OK
D+0.7E	2.46	1.75	0.05	OK
D+0.75W+0.75L	7.19	4.19	0.12	OK
D+0.525E+0.75L	7.19	1.56	0.06	OK

Top Connection : Standard Cap Plate

Offset Base Plate : MODLBP 8 - 20

Spread Footing Design **Col Line A**

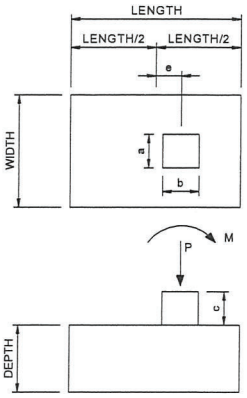
From Column

P dl =	2.46	kips
P ll =	6.31	kips
P wl =	-3.68	kips

Soil Density =	110	pcf
Width =	5.50	ft
Length =	5.50	ft
Depth =	3.00	ft
e =	2.08	ft
a =	0.00	ft
b =	0.00	ft
c =	0.00	ft

Unbalanced Load to Column

M dl =	0.00	kip-ft
M ll =	0.00	kip-ft
M wl =	0.00	kip-ft
From Lateral		
M wl =	4.96	kip-ft
M el =	2.82	kip-ft



Kern = L/6 =	0.92	ft
Footing Weight =	13.61	kips
Soil Weight =	0.00	kips

Total Loads to Spread Footing

PDL =	16.07	kips	MDL =	5.13	kip-ft
PLL =	6.31	kips	MLL =	13.15	kip-ft
PWL =	-3.68	kips	MWL =	-2.71	kip-ft
			MEL =	2.82	kip-ft

Load Combination	Pr, Kips	Mr, Kip-ft	ecc, ft	Soil Pressure psf
D+L	22.38	18.27	0.82	1068.92
D+W	12.39	2.42	0.19	166.84
0.6D+W	10.05	0.37	0.04	15.37
0.6D+0.7E	13.73	5.05	0.37	305.84
D+0.7E	16.07	7.10	0.44	457.31
D+0.75W+0.75L	18.05	12.95	0.72	733.74
D+0.75(0.7E)+0.75L	20.81	16.47	0.79	951.59

q(ALLOW)= 1500.00 psf OK

REINFORCING:

M = 17867.31 ft-lbs/ft

Assume: f'c=3000 psi, Fy=40000 psi

d =	32.63	in	
As(REQ'D)=	0.38	in^2	
As(PROV.)=	0.59	in^2	OK

USE #6's AT 9"O.C. T&B, EACH WAY

Foundation: (Restrained at Grade) **Col Line A**

d^2=(4.25*M)/(S3*b)

M(MAX)=	20603	ft-lbs	Pmax=	8.77	kips
S3=	100	PCF X d	Footing Area=	7.07	ft^2
b=	3.000	ft	Bearing=	1240.83	psf
d=	6.633	ft			
Footing=	Round				
USE:	3.00	FT.RND. X	6.75	ft deep footing	

As=12*M/(jd*24000)= 0.2759 in^2

USE: 10 #8's (RND. Cage) w/ #4 Ties @ 4" O.C. w/135 degree hooks In The Top 3'-0" of The Footing, #4 Ties @ 12" o.c w/ 135 Degree Hooks In The Balance of Footing

Footing design to allow offset column placement of 1'-9" from centerline of footing.

Column Design **Col Line B** *AISC 15th ed, Use First Order Analysis Criteria*

P DL =	2.54	kips	Clr. Ht.=	10.17	ft
P LL =	6.41	kips	Fascia Ht.=	1.00	ft
P WL =	-4.29	kips	Col. Trib=	19.36	ft
Base Shear =	0.21	kips	Wind Load=	16.00	psf
			# of COL.=	2	

M WL = w(Fascia Ht•2.5•Col Trib./# of col•L)+ w(Wrap•1/2 Clr. Ht^2)
M Seis = Base Shear x L
M Unbal = Live Load x Col. Trib.x (Canopy Width/2)^2/2
L = Clr. Ht. + Fascia Ht/2

Max All. Defl = 1.28 in
Max Defl Ratio = L/ 100
Max Defl. = 0.16 in, OK

Pr = 8.96 kips 1.6Pr<0.5Py First-Order Analysis Allowed (A-7-1)
Py = 326.60 kips
N = 0.00 •Yi (A-7-2)
B2 = 1.05 OK, A-8-6
M WL = 4.96 kip-ft
M Seis = 2.25 kip-ft
M DL(Nod) = 0.11 kip-ft
M LL(Nod) = 0.29 kip-ft
M Unbal DL= 0.00 kip-ft
M Unbal LL= 0.00 kip-ft
M Unbal WL= 0.00 kip-ft

Use: TS8X8X1/4		
Fy =	46.00	ksi
K =	1.00	
L, Col =	10.67	ft
A =	7.10	in^2
I =	70.70	in^4
Cm =	1.00	
Pe1 =	393.14	kips
B1 =	1.04	(A-8-3)
P,All =	175.01	kips
M, All =	44.10	kip-ft

Load Combination	Pr, Kips	Mr, Kip-ft	Equation	Result
D+L	8.96	0.42	0.04	OK
D+W	2.54	5.26	0.13	OK
D+0.7E	2.54	1.76	0.05	OK
D+0.75W+0.75L	7.35	4.20	0.12	OK
D+0.525E+0.75L	7.35	1.57	0.06	OK

Top Connection : Standard Cap Plate | Base Plate : LBP 8 - 20

Foundation: (Restrained at Grade)

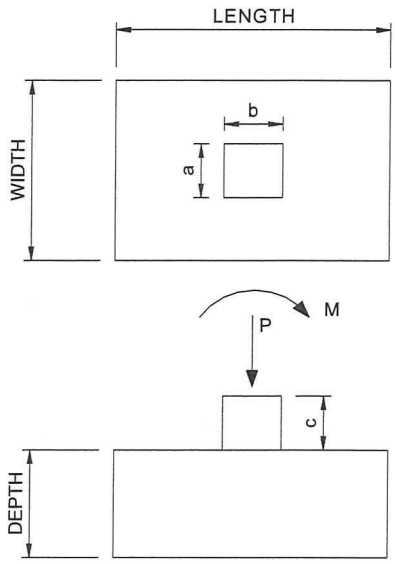
d^2=(4.25*M)/(S3*b)

M(MAX)=	5262	ft-lbs	Pmax=	8.96	kips
S3=	100	PCF X d	Footing Area=	7.07	ft^2
b=	3.000	ft	Bearing=	1267.17	psf
d=	4.209	ft			
Footing=	Round				

USE: 3.00 FT.RND. X 5.00 ft deep footing

As=12*M/(jd*24000)= 0.0705 in^2

USE: 8 #8's (RND. Cage) w/ #4 Ties @ 12" O.C. w/135 hooks



P dl =	2543	lbs
P ll =	6414	lbs
P w =	-4295	lbs
M =	5262	ft-lbs
Soil Density =	110	pcf
Width =	4.50	ft
Length =	4.50	ft
Depth =	3.00	ft
a =	0.00	ft
b =	0.00	ft
c =	0.00	ft
Footing Weight =	9112.5	lbs
Soil Weight =	0	lbs

Overturning :

OTM =	5262	ft-lbs
RM =	14273	ft-lbs
FS =	2.71	> 1.5 Therefore OK

Soil Pressure :

q(dl+ll) =	442.33	psf Net	
q(ALLOW) =	1500	psf	OK

For dl+(wl, seismic) :

P =	11656	lbs	
e=M/P=	0.45	ft	
L/6 =	0.75	ft	
Resultant within middle 3rd			
q(dl+wl, seismic)=	472.04	psf Net	
q(ALLOW)=	1500.00	psf	OK

REINFORCING:

M(dl+ll) =	1119.64	ft-lbs/ft
M(dl+wl, seismic) =	574.90	ft-lbs/ft
dl+ll Controls		
Assume: f'c=3000 psi, Fy=40000 psi		
d =	32.63	in
As(REQ'D)=	0.02	in^2
As(PROV.)=	0.44	in^2

USE #6's AT 12"O.C. T&B, EACH WAY

Foundation: (Restrained at Grade) **Col Line B**

d^2=(4.25*M)/(S3*b)

M(MAX)=	20937	ft-lbs	Pmax=	8.96	kips
S3=	100	PCF X d	Footing Area=	7.07	ft^2
b=	3.000	ft	Bearing=	1267.17	psf
d=	6.669	ft			
Footing=	Round				
USE:	3.00	FT.RND. X	6.75	ft deep footing	

As=12*M/(jd*24000)= 0.2804 in^2

USE: 10 #8's (RND. Cage) w/ #4 Ties @ 4" O.C. w/135 degree hooks In The Top 3'-0" of The Footing, #4 Ties @ 12" o.c w/ 135 Degree Hooks In The Balance of Footing

Footing design to allow offset column placement of 1'-9" from centerline of footing.

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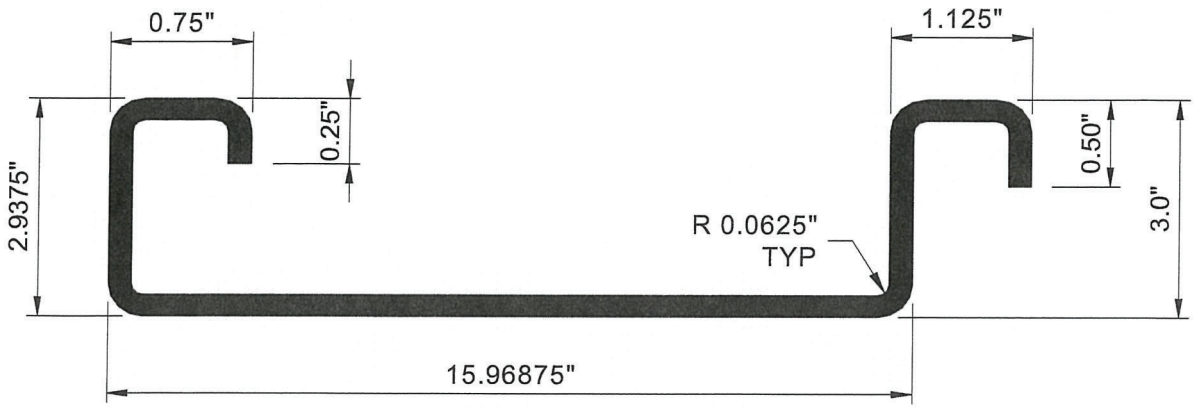


SL-316 DECK PANEL

Section Properties

Gage	Wt, psf	Thickness, in	ASTM 653	+I, in^4	-I, in^4	+S, in^3	-S, in^3	+M, ft-lbs/ft	-M, ft-lbs/ft
20	2.20	0.0359	Grade 40	0.9346	0.4680	0.3961	0.3036	592.70	454.44
			Grade 50	0.9208	0.4522	0.3879	0.2880	725.86	538.92
18	2.93	0.0478	Grade 40	1.2486	0.6827	0.5329	0.4377	797.77	655.28
			Grade 50	1.2129	0.6518	0.5141	0.4296	962.09	803.92

Notes:

1 Designed per AISI Cold Formed Steel Manual, 2016 ed.
2 Complete calculations are available upon request.
3 ± M is allowable bending moment.

Issued 12-5-17

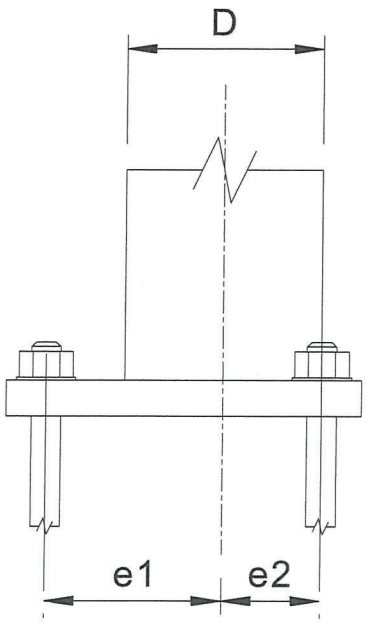
	Moment =	20.00	kip-ft
	Column =	TS8X8X1/4	
	D =	8	in.
	e1 =	8	in.
	e2 =	4	in.
	Anchor Bolts =	1 1/2	in
	t plate =	2.00	in
A36 Steel Plate	Fy =	36	ksi
E70 Electrode	Fw =	0.928	kips / in / 16th
A307 Anchor Bolts	Ft =	20	ksi

Clockwise Moment

Pbolt =	8.57	kips	< 35.3, OK
t(req'd) =	1.04	in	
t(actual) =	2.00	in	
Weld(req'd) =	3.03	/16th's	
Weld(actual) =	F.P.	/16th's	

Counter-Clokwise Moment

Pbolt =	12.00	kips	< 35.3, OK



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STANDARD BASE PLATE DESIGN

LBP # (D - M)	M (ft-k)	P_{BOLT} (k)	Bolt Dia. (in)	$t_{REQ'D}$ (in)	t_{ACTUAL} (in)	Weld Req'd (1/16 in)	Weld Actual (in)	Base Plate Mark
8 - 10	10	5.58	1 1/2	0.72	3/4	1.52	1/4	LBP 1
8 - 20	20	10.91	1 1/2	0.99	1	3.03	5/16	LBP 2
8 - 30	30	16.00	1 1/2	1.17	1 1/4	4.55	5/16	LBP 3
8 - 40	40	20.87	1 1/2	1.32	1 1/2	6.06	F.P.	LBP 4
8 - 50	50	26.09	1 1/2	1.46	1 1/2	7.58	F.P.	LBP 5

TS 8 X 8 COLUMN:

D= 8 in.
e= 2 in.
b,d= 8 in.

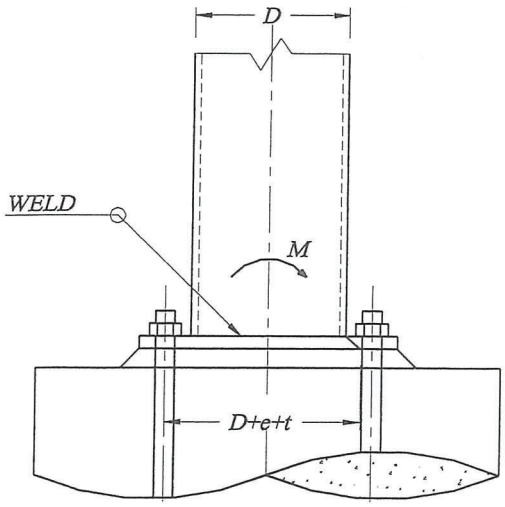
CONSTANTS:

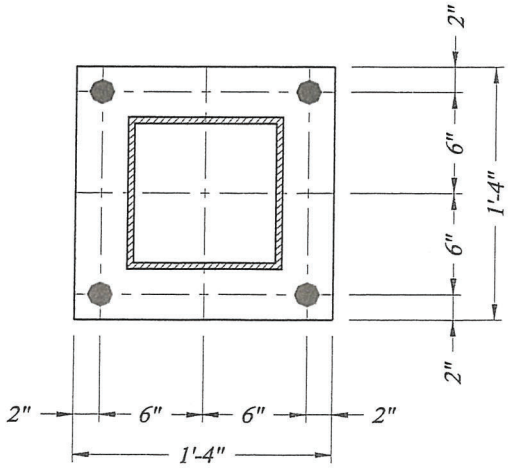
A36 Steel Plate	Fy = 36 ksi
E70xx Electrode	Fw = 0.928 k/in/16th
A307 Anchor Bolts	Ft = 20 ksi

EQUATIONS:

$$P_{BOLT} = \frac{M \times 12\ in/ft}{2\ bolts\ (D+e+t)} \qquad Weld = \frac{M \times 12\ in/ft}{S_{Weld} \times Fw} = \frac{M \times 12\ in/ft}{Fw\ (bd+d^2/3)}$$

$$t_{REQ'D} = \sqrt{\frac{6 \times P \times e \times 2\ bolts}{0.75 \times Fy \times (D+2t)}}$$





DESIGN LOADS:

DEAD LOAD = 3 p.s.f.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
WIND LOAD V.ULT = 116 m.p.h. EXP. C
WIND V.ASD = 90 m.p.h. EXP C
BLDG CODE = MISSOURI BUILDING CODE 2018
ADOPTING 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f.
Ce = 1.2
Ct = 1.2
Is = 1.0
W = 4.92
Pd = 20.44
SITE CLASS = D
Ss (0.2) = 0.099
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.084
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 1.43 KIPS