

Exhibit V
Civil Plan set dated June 18, 2024

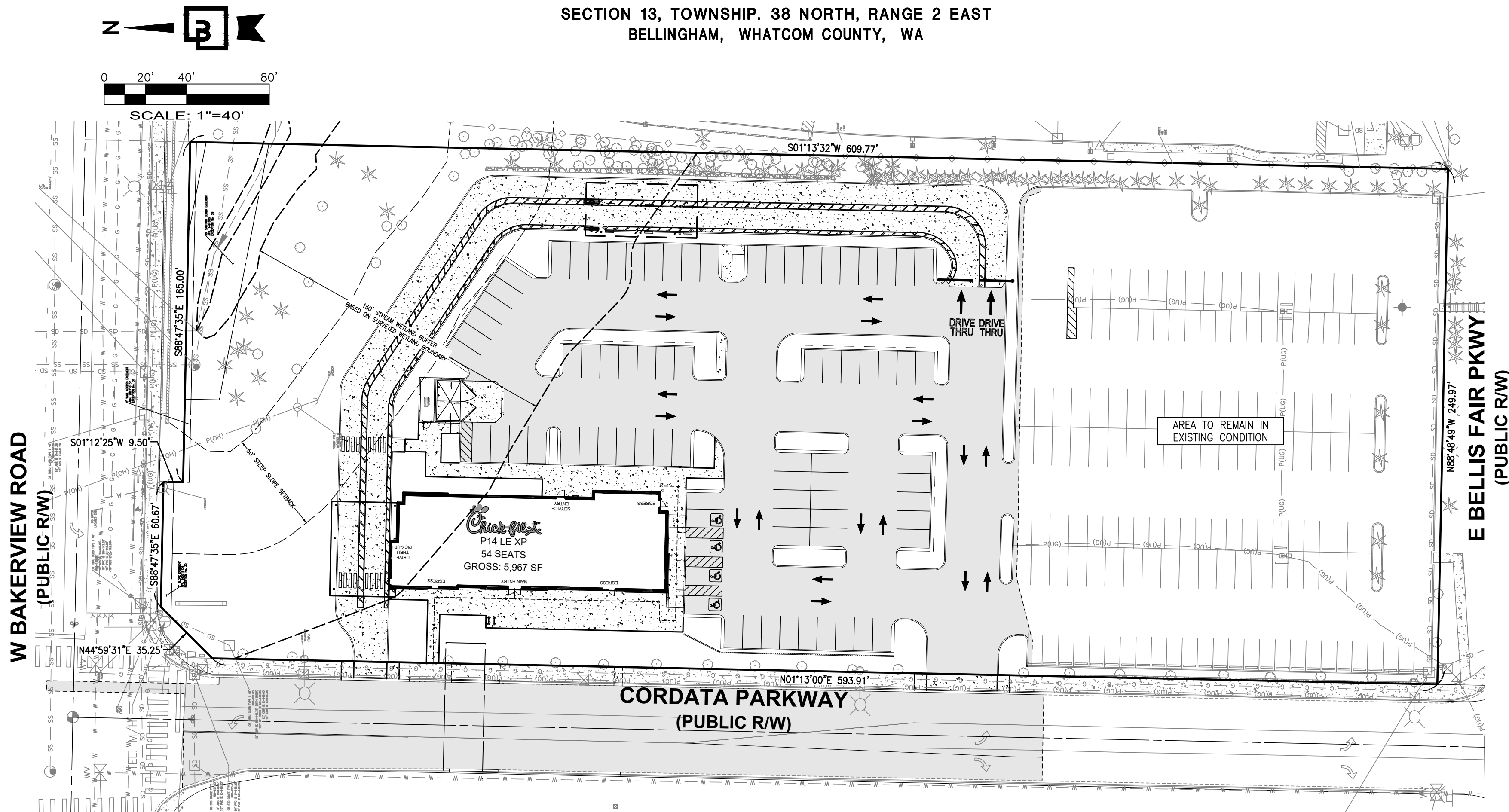
The bottom left corner of the page features two overlapping geometric shapes. The first is a large, light purple triangle that points towards the bottom right. The second is a smaller, dark blue triangle that points towards the bottom left and is positioned over the light purple triangle.

1. THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
2. THE CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE OR SHOWN ON RECORD DRAWING PROVIDED BY OTHERS ARE SHOWN HEREON. EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO A DEGREE OF UNKNOWN VARIATION. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS OR RECORDS OF OTHERS. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INCEPTION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLY WITH THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
6. INSPECTION OF SITE WORK WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE GOVERNING JURISDICTION. INSPECTION OF PRIVATE FACILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE OWNER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
7. PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY THE CONTRACTOR SHALL CONTACT THE AGENCY AND/OR UTILITY INSPECTION PERSONNEL AND ARRANGE ANY REQUIRED PRE-CONSTRUCTION MEETING(S). CONTRACTOR SHALL PROVIDE ONE WEEK MINIMUM ADVANCE NOTIFICATION TO OWNER, FIELD ENGINEER AND ENGINEER OF PRE-CONSTRUCTION MEETINGS.
8. THE CONTRACTOR IS RESPONSIBLE FOR WORKER AND SITE SAFETY AND SHALL COMPLY WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS AND METHODS' REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.
10. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ADJACENT PUBLIC AND PRIVATE PROPERTY AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITY SERVICES THAT ARE TO REMAIN OPERATIONAL WITHIN THE CONSTRUCTION AREA WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
11. TWO (2) COPIES OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. ONE (1) SET WITH RECORDS OF AS-BUILT INFORMATION SHALL BE SUBMITTED TO BARGHAUSEN CONSULTING ENGINEERS, INC. AT COMPLETION OF PROJECT.
12. CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL CONTROL FOR ALL NEW IMPROVEMENTS. STAKING CONTROL SHALL BE TAKEN FROM ELECTRONIC PLAN FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC.
13. CONTRACTOR SHALL REQUEST FROM BARGHAUSEN CONSULTING ENGINEERS, INC. PRIOR TO ANY CONSTRUCTION STAKING OR CONSTRUCTION WORK, A FORMAL CONSTRUCTION RELEASE PLAN SET OR SPECIFIC RELEASE IN WRITING. THE APPROVED AGENCY PERMIT DRAWINGS WILL NOT BE CONSIDERED CONSTRUCTION RELEASE PLANS BY BARGHAUSEN CONSULTING ENGINEERS, INC. UNLESS BARGHAUSEN CONSULTING ENGINEERS, INC. HAS COMPLETED A FORMAL WRITTEN RELEASE OR ISSUED A CONSTRUCTION RELEASE PLAN SET.

PROPERTY IS LOCATED IN FEMA FLOOD ZONE X PER THE FEMA NATIONAL FLOOD INSURANCE PROGRAM RATE MAP.

PROPOSED		EXISTING	
CURB AND GUTTER		CURB	
BARRIER CURB		PAINT STRIPE	
CONCRETE		CONCRETE	
ASPHALT		CONTOUR	
SAWCUT		WATER	
CONTOUR		STORM	
WATER		TYPE 1 CATCH BASIN	
WATER METER		SANITARY	
STORM		SS MANHOLE	
SANITARY		GAS	
GAS		POWER OVERHEAD	
POWER		POWER UNDERGROUND	
PAINT STRIPE		GRAVEL/SAND (AS NOTED)	
TYPE 1 CATCH BASIN		ASPHALT	
TYPE 2 CATCH BASIN		BUILDING LINE	
SANITARY SEWER CLEANOUT		WATER LINE	
		OH/UG TEL. LINE	
		LUMINAIRE (LUM.)	
		YARD LIGHT	
		POWER METER	
		POWER POLE	
		JUNCTION BOX (AS NOTED)	
		CATCH BASIN (CB)	
		STORM MANHOLE (SDMH)	
		SANITARY SEWER MANHOLE (SSMH)	
		CLEANOUT (AS NOTED)	
		GAS METER	
		GAS VALVE	
		WATER VALVE (WV)	
		FIRE HYDRANT(FH)	
		CONNECTION(FDC)	
		WATER METER	
		SIGN	
		DIRECTIONAL ARROW	
		BOLLARD	
		CONIFEROUS TREE	
		DECIDUOUS TREE	

SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA



THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATOR @ 811 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349
TEL: (404) 305-4407
CONTACT: STEVE SCHWARTZ
EMAIL: STEVE.SCHWARTZ@CHICK-FIL-A.COM

WARE MALCOMB
3015 112TH AVE NE #205
BELLEVUE, WA 98004
TEL: (602) 641-7084
CONTACT: BRET RYAN
EMAIL: BRYAN@WAREMALCOMB.COM

BARGHAUSEN CONSULTING ENGINEERS, INC
18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
FAX: (425) 251-8782
CONTACT: JASON CAREY

BARGHAUSEN CONSULTING ENGINEERS, INC.
18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
FAX: (425) 251-8782
CONTACT: JEFF VARLEY, R.L.A.

TERRACON CONSULTANTS, INC.
21905 64TH AVENUE WEST SUITE 100
MOUNTLAKE TERRACE, WA 98043
(425) 771-3304
CONTACT: TARIK H. BINOY, P.E.

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18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
FAX: (425) 251-8782
CONTACT: RYAN D. LEE, P.L.S.

1. THE FOLLOWING GEOTECHNICAL REPORTS FOR THE SITE SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS:

- SOILS REPORTS:** GEOTECHNICAL ENGINEERING REPORT
JOB NUMBER: 81235073
DATE: OCTOBER 27, 2023
- PREPARED BY:** TERRACON CONSULTANTS, INC.
21905 64TH AVENUE WEST SUITE 100,
MOUNTLAKE TERRACE, WA 98043
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF THE SITE PREPARATION, GRADING OPERATIONS, FOUNDATION, SLAB, AND PAVING CONSTRUCTION.
 - ANY PROVISIONS OF THE SOILS REPORTS WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS, OR WHICH REQUIRE FURTHER CLARIFICATION, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR DETERMINATION.
 - A REPRESENTATIVE OF THE SOILS ENGINEER SHALL BE AVAILABLE TO OBSERVE AND APPROVE THE EARTHWORK OPERATIONS AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS CERTIFYING THAT THE METHODS AND MATERIALS OF THE EARTHWORK OPERATIONS WERE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS INVESTIGATION AND THAT THE WORK WAS PERFORMED TO HIS/HER SATISFACTION.
 - THE SOILS ENGINEER SHOULD BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY SITE CLEARING OR GRADING.

CIVIL SHEET LIST	
Sheet Number	Sheet Title
C1.0	PRELIMINARY COVER SHEET
C2.0	PRELIMINARY TESC AND DEMO PLAN
C2.1	PRELIMINARY TESC AND DEMO PLAN
C3.0	PRELIMINARY SITE PLAN
C3.1	PRELIMINARY SITE PLAN
C4.0	PRELIMINARY GRADING AND DRAINAGE PLAN
C4.1	PRELIMINARY GRADING AND DRAINAGE PLAN
C5.0	PRELIMINARY UTILITY PLAN
C5.1	PRELIMINARY UTILITY PLAN
C6.0	PRELIMINARY TRUCK TURN PLAN

VERTICAL CONTROL PUBLISHED BY WSDOT, POINT "GP37005-13 AZ" WAS HELD FOR ELEVATION.
BENCHMARK ELEVATION = 135.78 USFT

NAD 83/11
PER WSDOT PUBLISHED MONUMENTS, WSDOT CONTROL POINT "GP37005-13 AZ" WAS HELD
FOR POSITION AND A LINE BETWEEN SAID POINT "GP37005-13 AZ" AND CONTROL POINT
"BM37005-1" WAS HELD FOR ROTATION, BEING NORTH 75°01'25" WEST.

A PORTION OF THE NORTHEAST QUARTER OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 2 EAST OF W.M., IN THE CITY OF BELLINGHAM IN WHATCOM COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 13, SAID CORNER BEING A CONCRETE MONUMENT IN CASE AT THE INTERSECTION OF GUIDE MERIDIAN STREET AND WEST MCLEOD ROAD;

THENCE NORTH 01°17'06" EAST ALONG THE EAST LINE OF SAID NORTHEAST QUARTER, A DISTANCE OF 1981.33 FEET;

THENCE NORTH 88°45'16" WEST, A DISTANCE OF 984.49 FEET TO THE SOUTHEAST CORNER OF LOT 2, BLOCK 1 IN THE PLAT OF BAKERYMEN ADDITION TO THE CITY OF BELLINGHAM, AS RECORDED IN VOLUME 7 OF PLATS, PAGES 40 TO 45, RECORDS OF WHATCOM COUNTY, WASHINGTON AND THE TRUE POINT OF BEGINNING;

THENCE NORTH 88°49'16" WEST, A DISTANCE OF 249.97 FEET TO A POINT THAT IS 84.99 FEET EAST OF THE EAST LINE OF LOT 1, BLOCK 2 OF SAID PLAT;

THENCE NORTH 01°13'29" EAST, A DISTANCE OF 593.91 FEET;

THENCE NORTH 45°00'00" EAST, A DISTANCE OF 51.19 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF BAKERYMEN ROAD;

THENCE SOUTH 88°48'07" EAST ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 14.49 FEET;

THENCE SOUTH 01°13'05" WEST, A DISTANCE OF 630.78 FEET TO THE TRUE POINT OF BEGINNING,

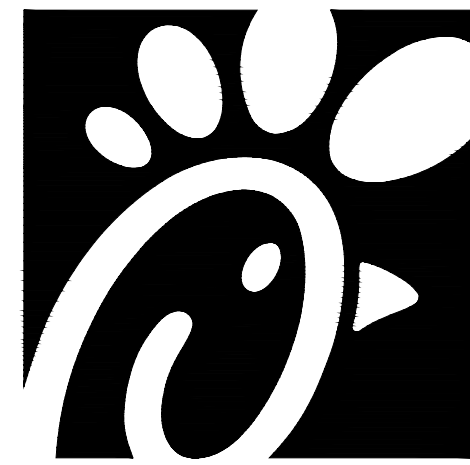
EXCEPT ANY PORTION DEEDED AS BELLIS FAIR MALL SHORT PLAT AS RECORDED UNDER AUDITOR'S FILE NO. 1603409 AND CORRECTED UNDER AUDITOR'S FILE NO. 1606802,

AND EXCEPT ANY PORTION DEEDED TO THE CITY OF BELLINGHAM UNDER AUDITOR'S FILE NO. 960716135.

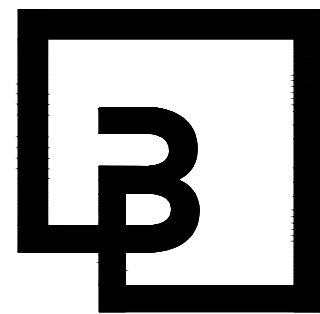
SITUATE IN WHATCOM COUNTY, WASHINGTON.



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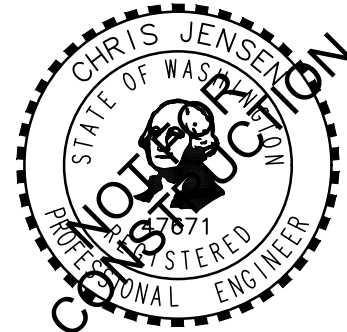


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5200 Buffington Road
Atlanta, Georgia 30349-
2998



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18215 72nd Avenue South
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CHICK-FIL-A
CORDATA PARKWAY
& W. BAKERVIEW RD.
4030 CORDATA PARKWAY
BELLINGHAM, WA

FSR#05529

BUILDING TYPE / SIZE
RELEASE:

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	22779
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PRINTED FOR

DATE _____

6/18/24
DRAWN BY CMH

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SHEET
**PRELIMINARY COVER
SHEET**

SHEET NUMBER

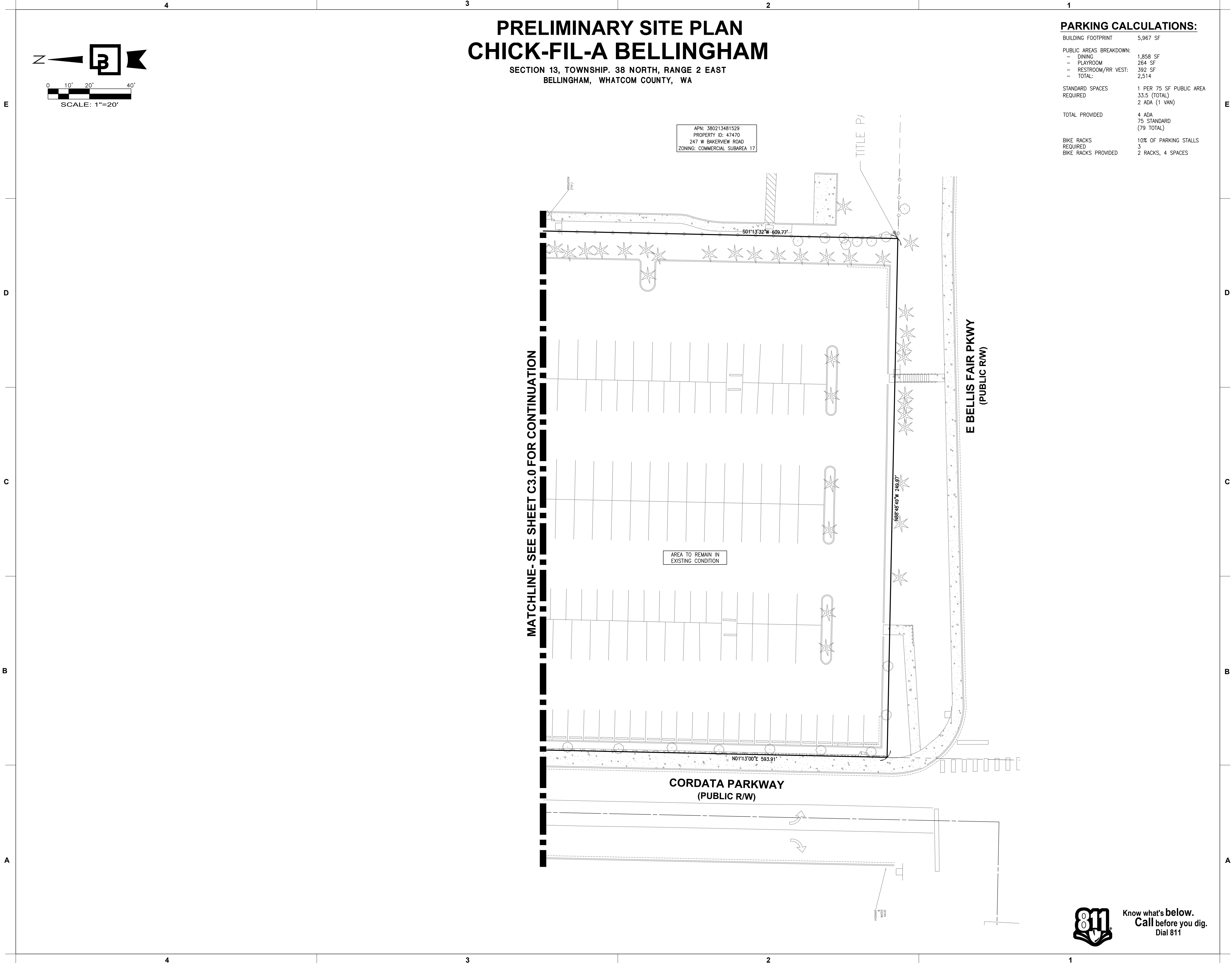
C1.0 OF 10

APN: 380213481529
PROPERTY ID: 47470
247 W BAKERVIEW ROAD
ZONING: COMMERCIAL SUBAREA 17

MATCHLINE-SEE SHEET C3.1 FOR CONTINUATION

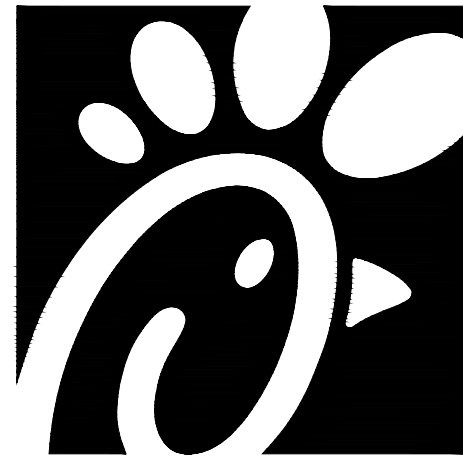


10



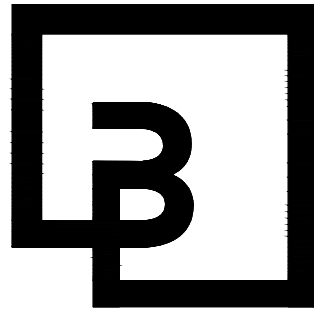
PARKING CALCULATIONS:

BUILDING FOOTPRINT	5,967 SF
PUBLIC AREAS BREAKDOWN:	
- DINING	1,858 SF
- PLAYROOM	264 SF
- RESTROOM/RR VEST:	392 SF
- TOTAL:	2,514
STANDARD SPACES REQUIRED	1 PER 75 SF PUBLIC AREA 33.5 (TOTAL) 2 ADA (1 VAN)
TOTAL PROVIDED	4 ADA 75 STANDARD (79 TOTAL)
BIKE RACKS REQUIRED	10% OF PARKING STALLS 3
BIKE RACKS PROVIDED	2 RACKS, 4 SPACES



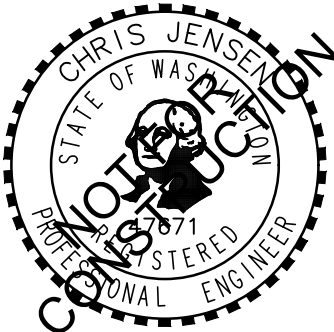
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SHEET
PRELIMINARY SITE PLAN

SHEET NUMBER

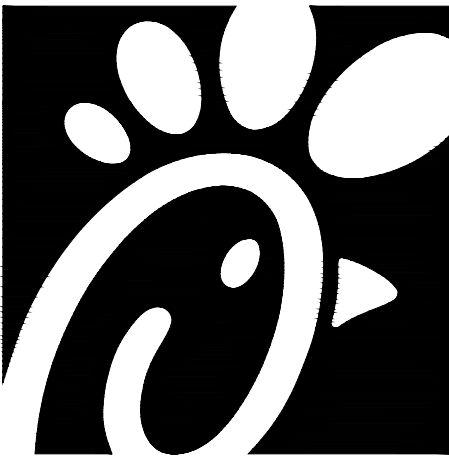
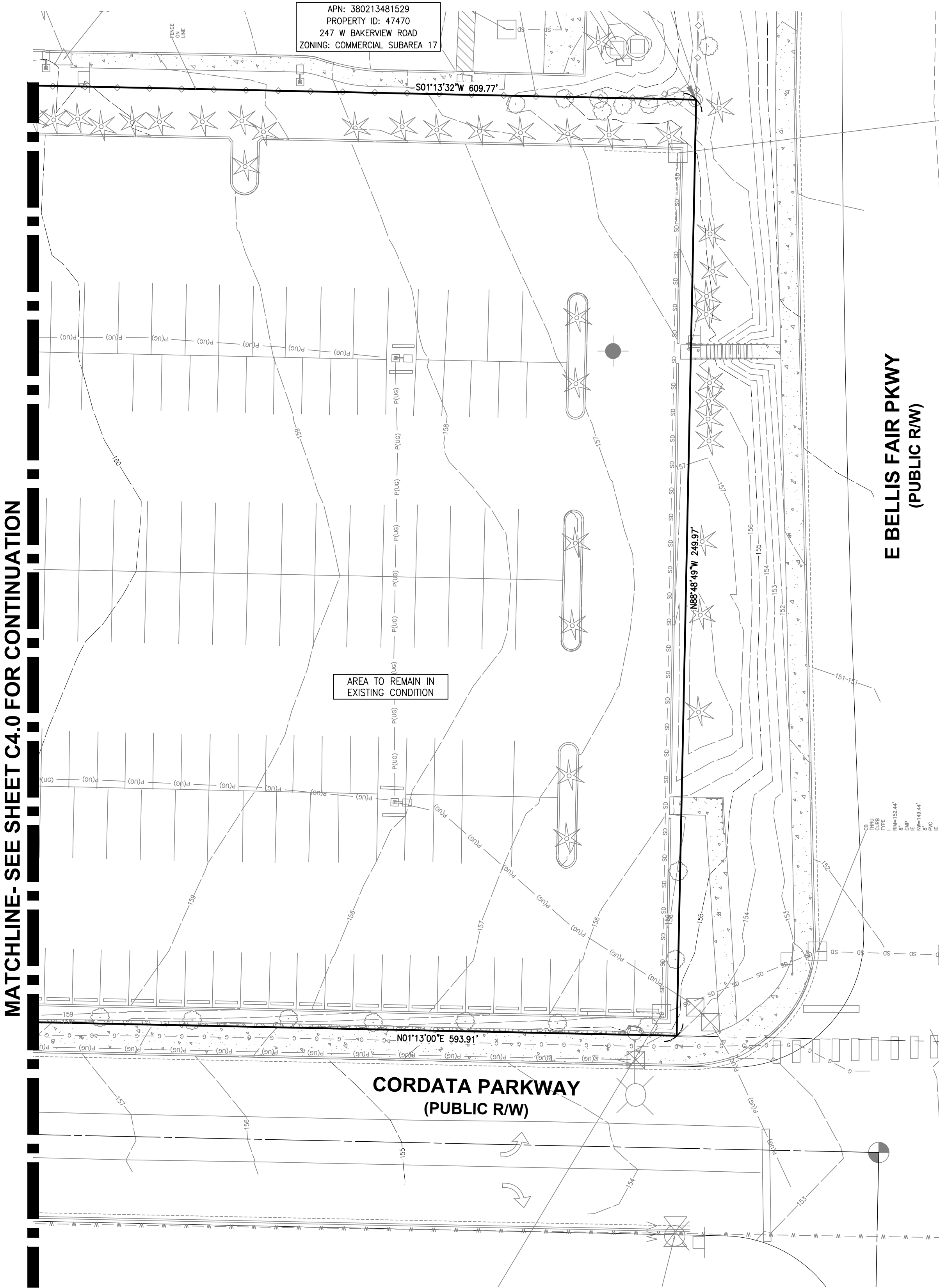
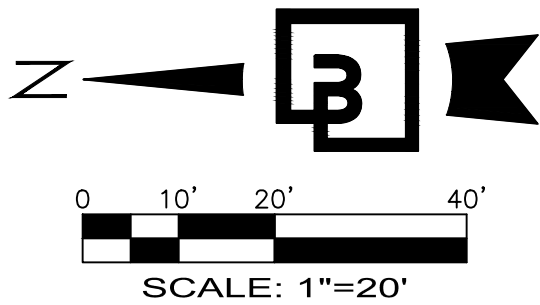
C3.1 OF 10



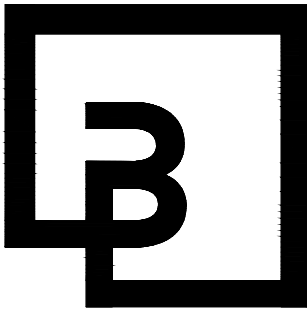
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PRELIMINARY GRADING AND DRAINAGE PLAN
CHICK-FIL-A BELLINGHAM

SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA

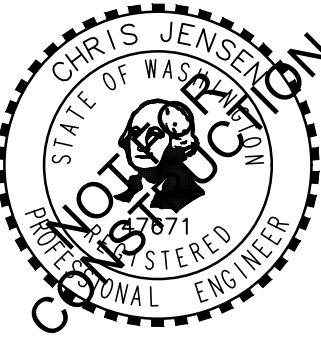


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BELLINGHAM, WA

FSR#05529

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SHEET

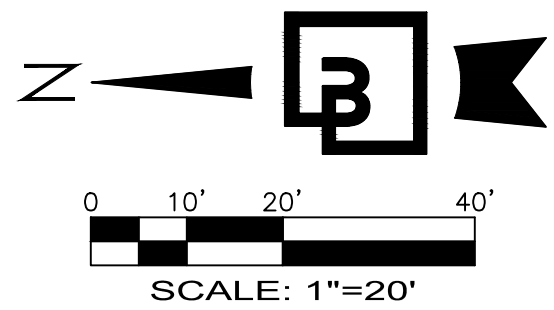
**PRELIMINARY GRADING
AND DRAINAGE PLAN**

SHEET NUMBER

C4.1 OF 10

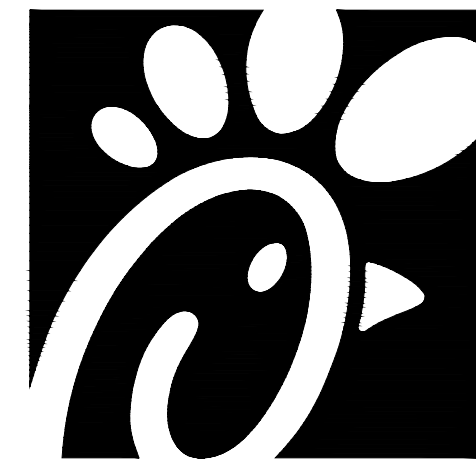
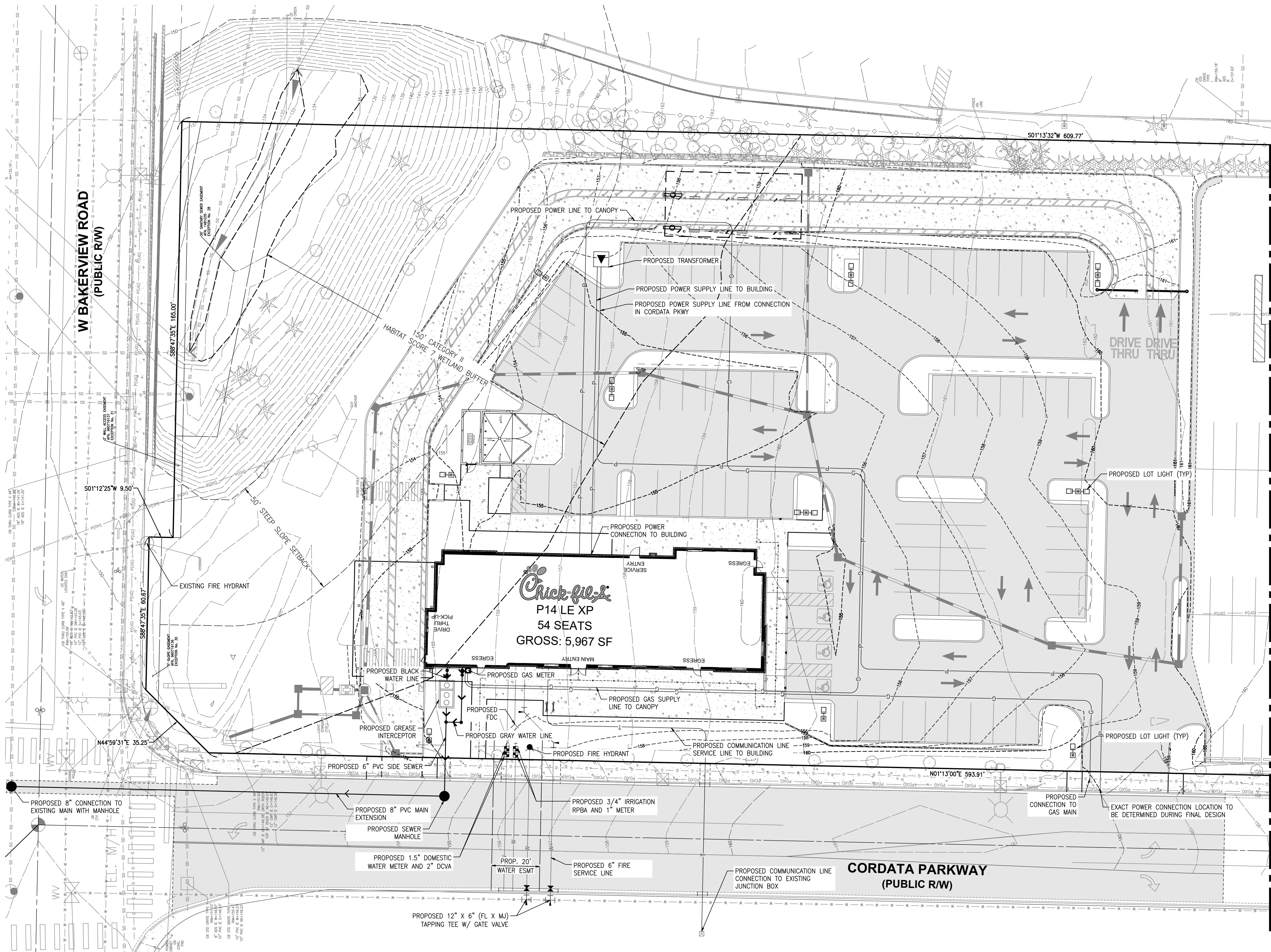


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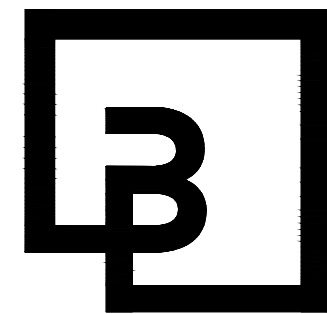
PRELIMINARY UTILITY PLAN CHICK-FIL-A BELLINGHAM

SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA



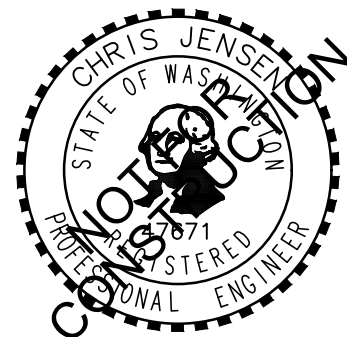
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SHEET

**PRELIMINARY
UTILITY PLAN**

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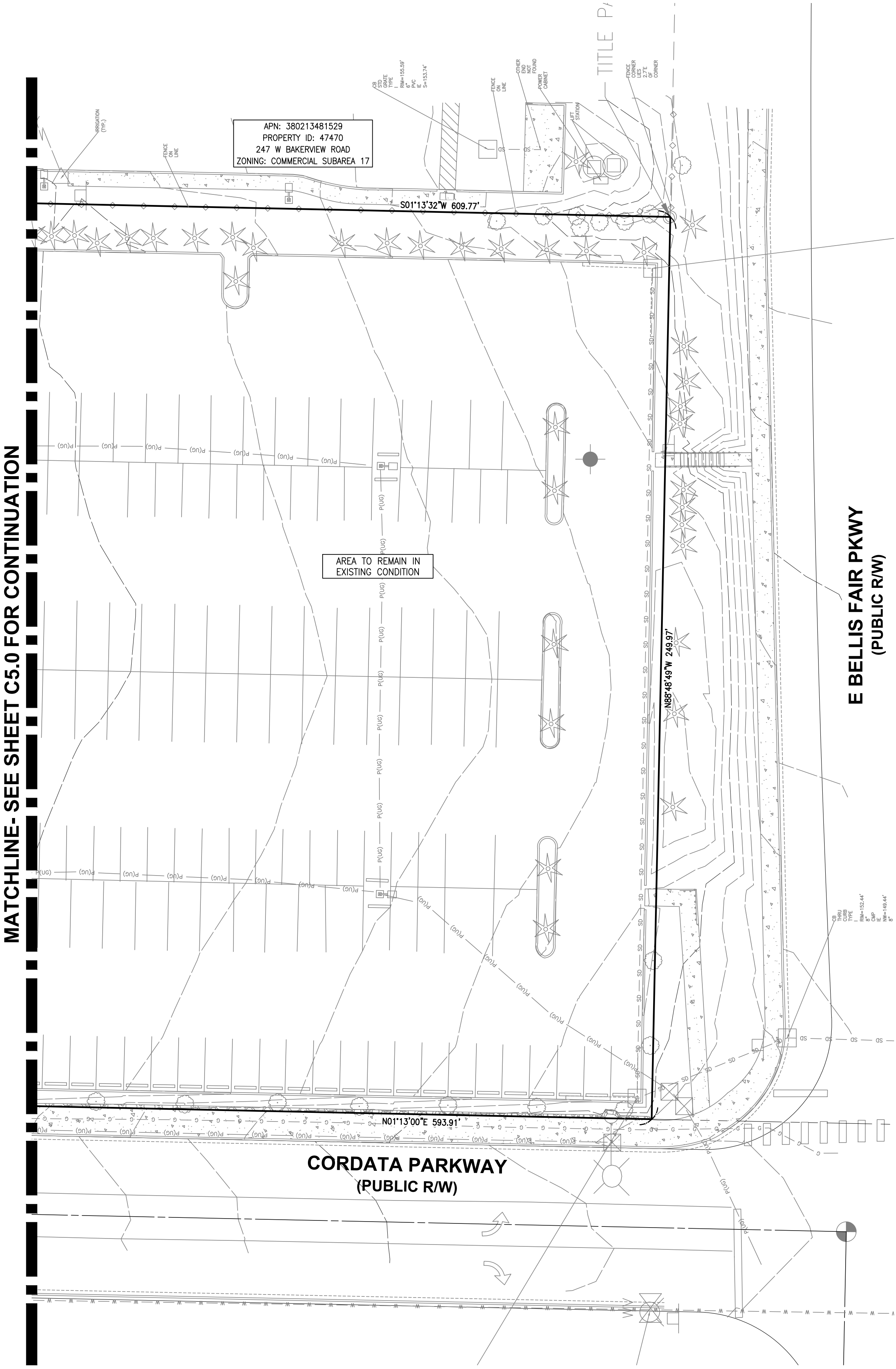
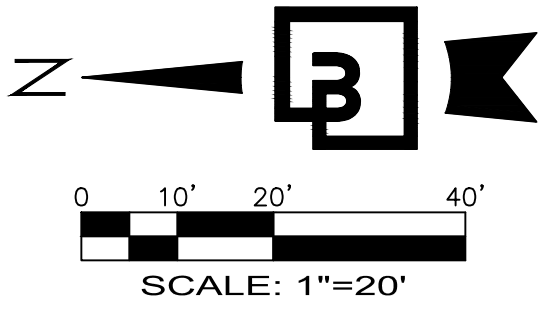
C5.0 OF 10



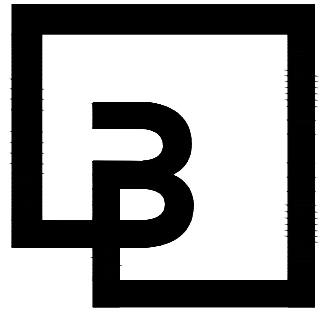
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PRELIMINARY UTILITY PLAN
CHICK-FIL-A BELLINGHAM

SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA

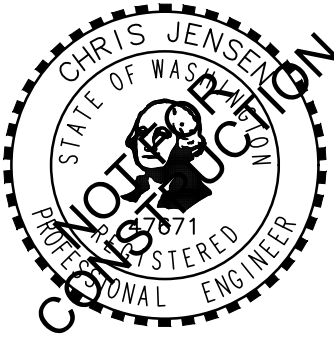


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PRELIMINARY
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SHEET NUMBER

C5.1 OF 10



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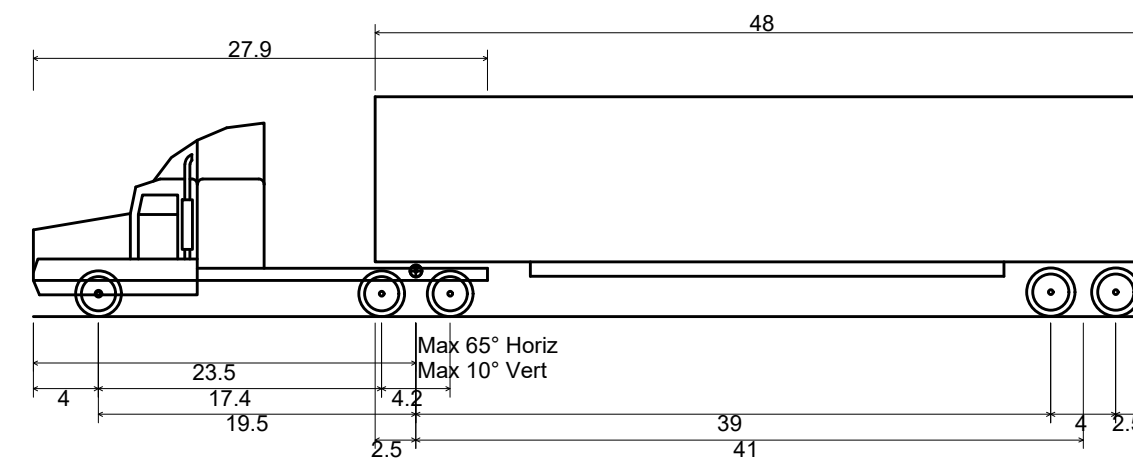
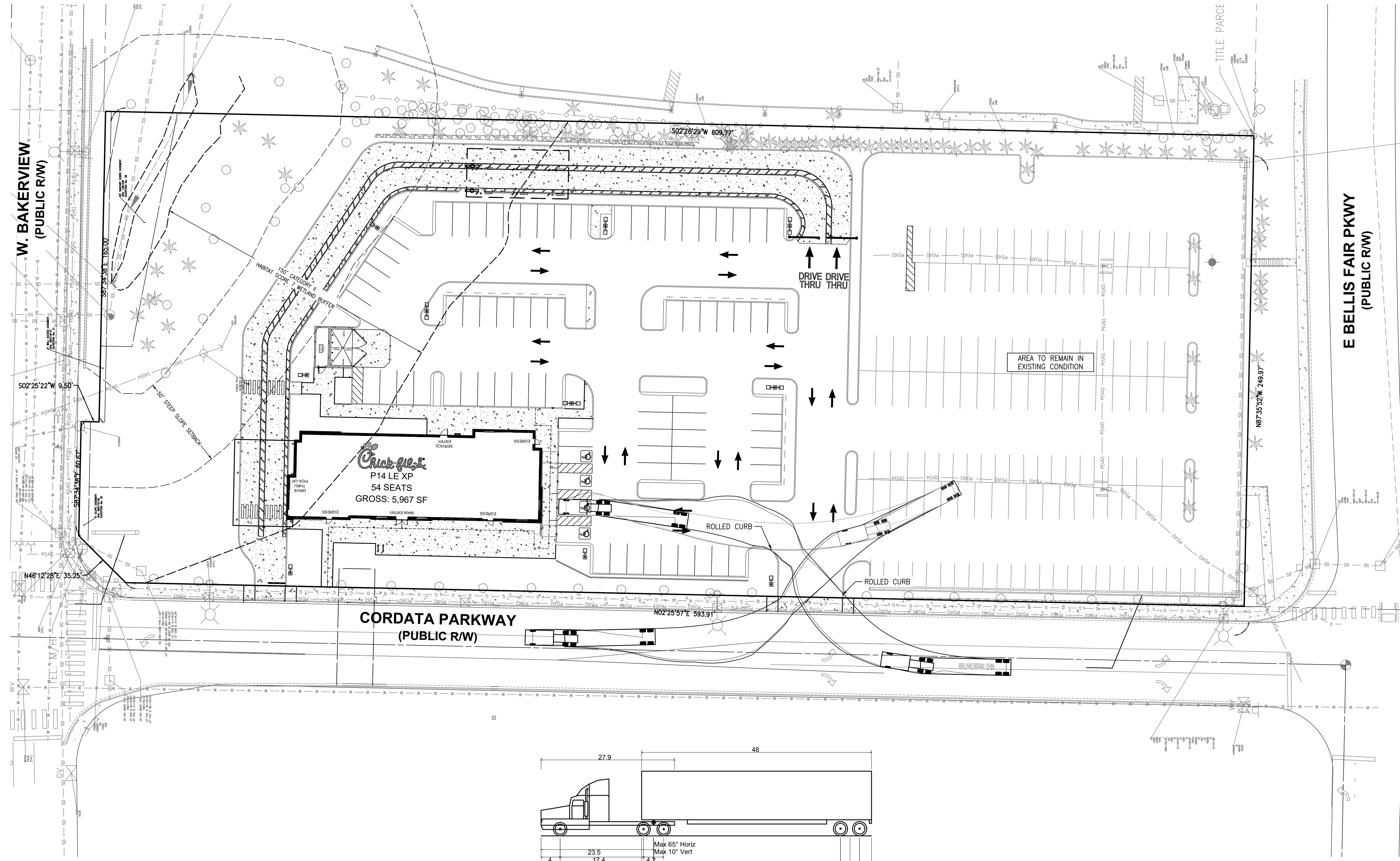
E

D

C

B

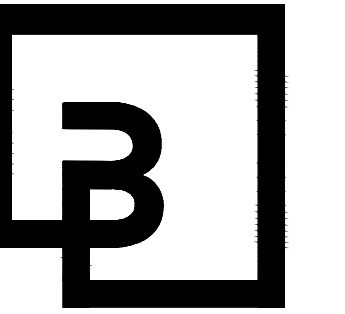
A



69.000ft
8.500ft
13.500ft
1.334ft
8.500ft
6.00s
28.40°

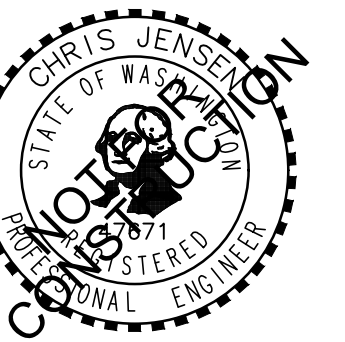


Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349-
2998



**Barghausen
Consulting Engineers, Inc.**

18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



CHICK-FIL-A
CORDATA PARKWAY
& W. BAKERVIEW RD.
4030 CORDATA PARKWAY
BELLINGHAM, WA

FSR#05529

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	22770
----------------------	-------

PRINTED FOR

DATE _____

DATE 6/18/24

DRAWN BY

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SHEET
**PRELIMINARY TRUCK
TURN PLAN**

SHEET NUMBER

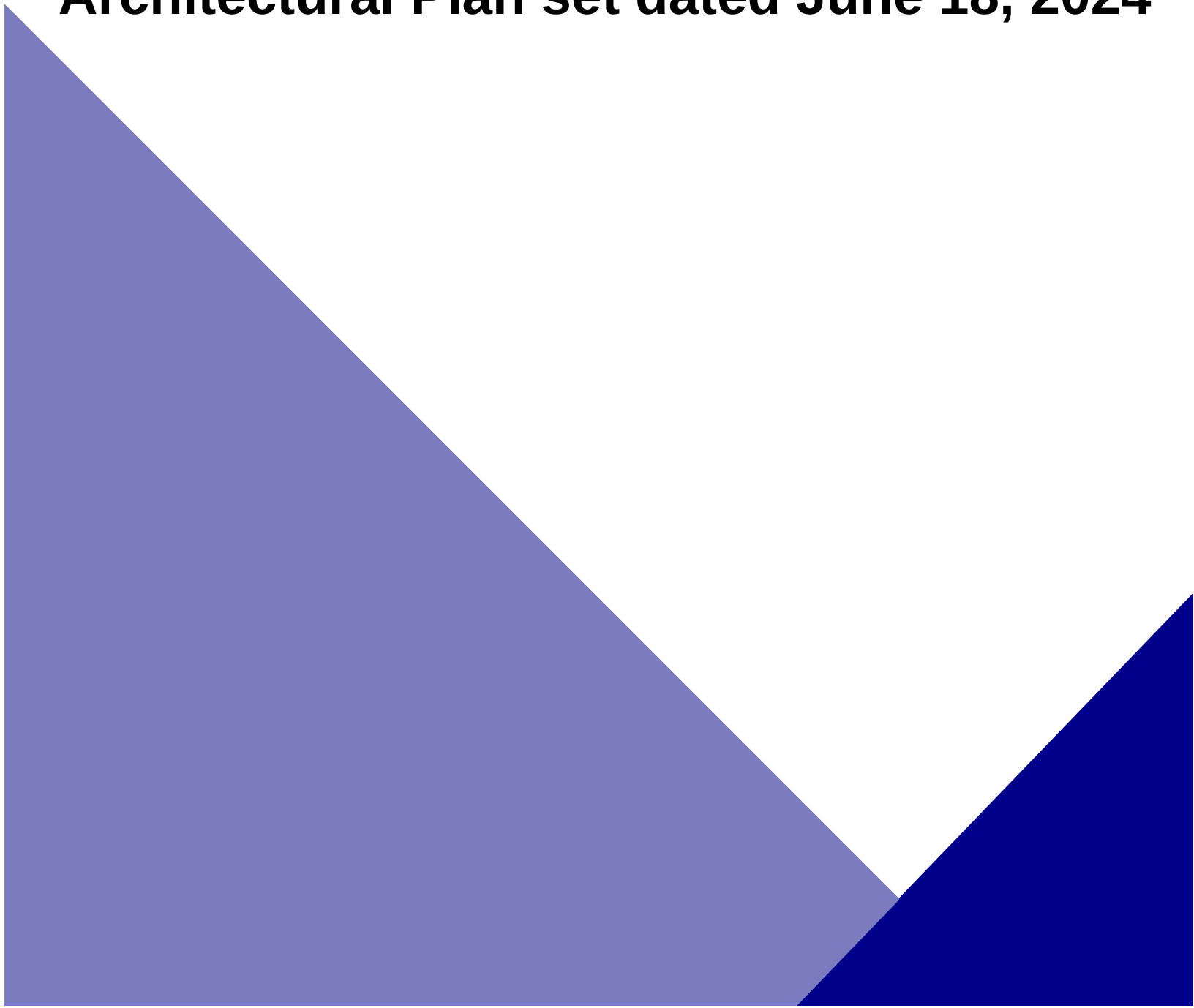
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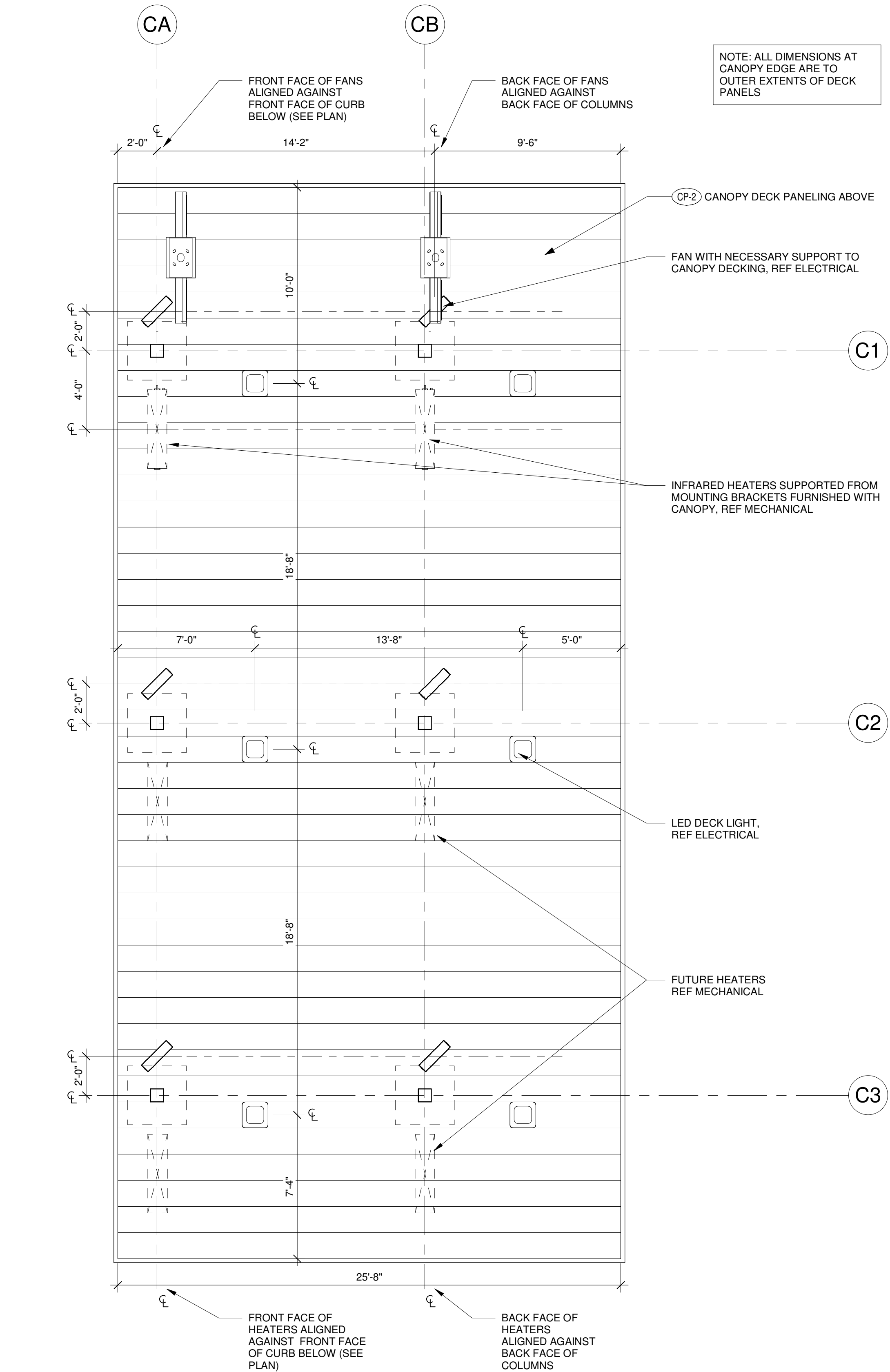
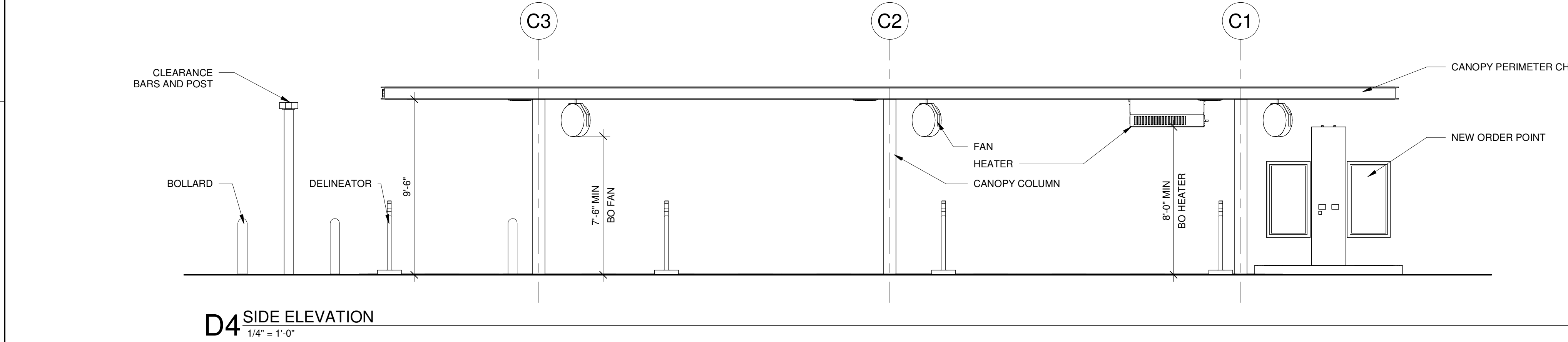
Know what's **below**.
Call before you dig.
 Dial 811

Exhibit U

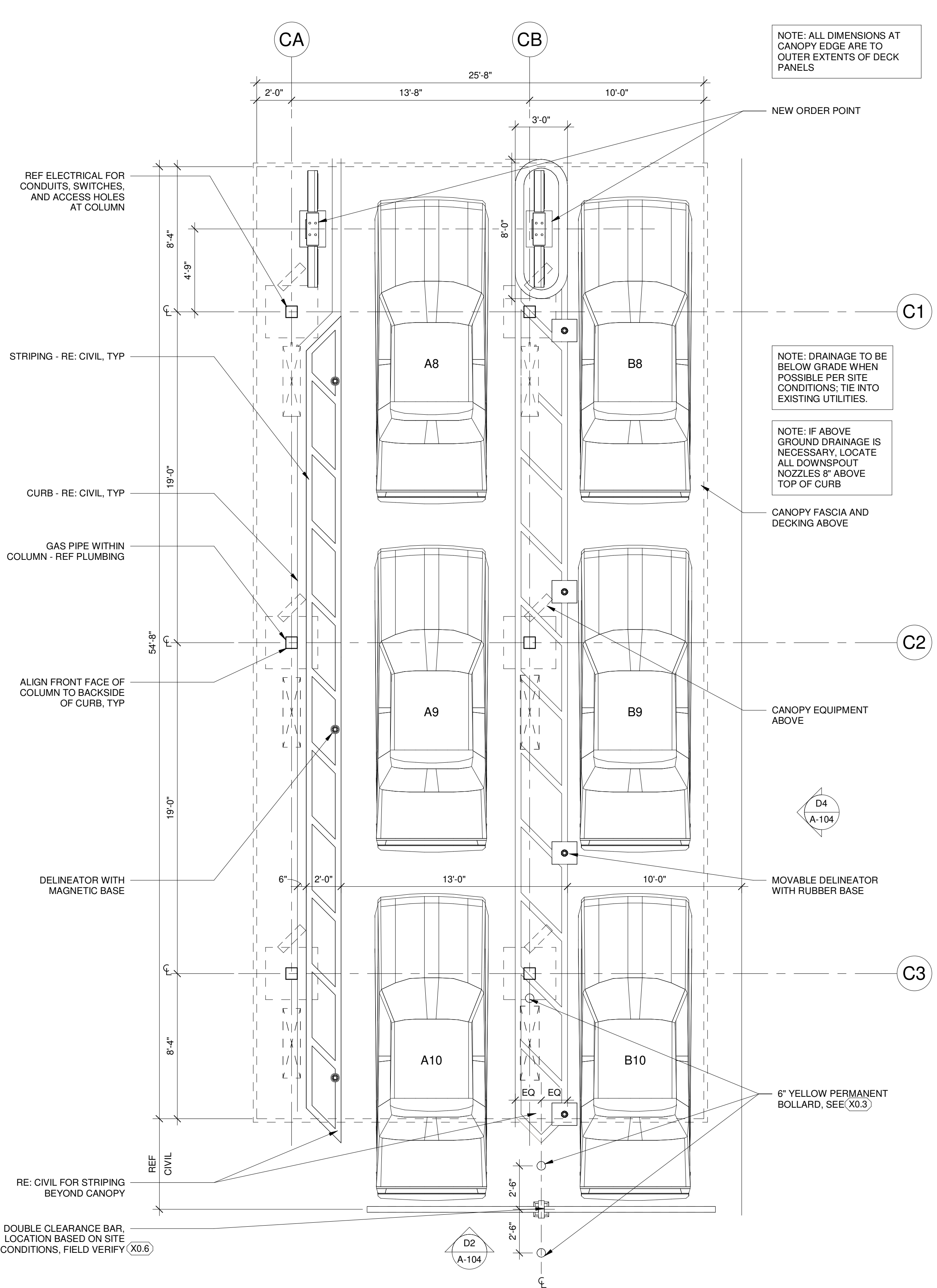
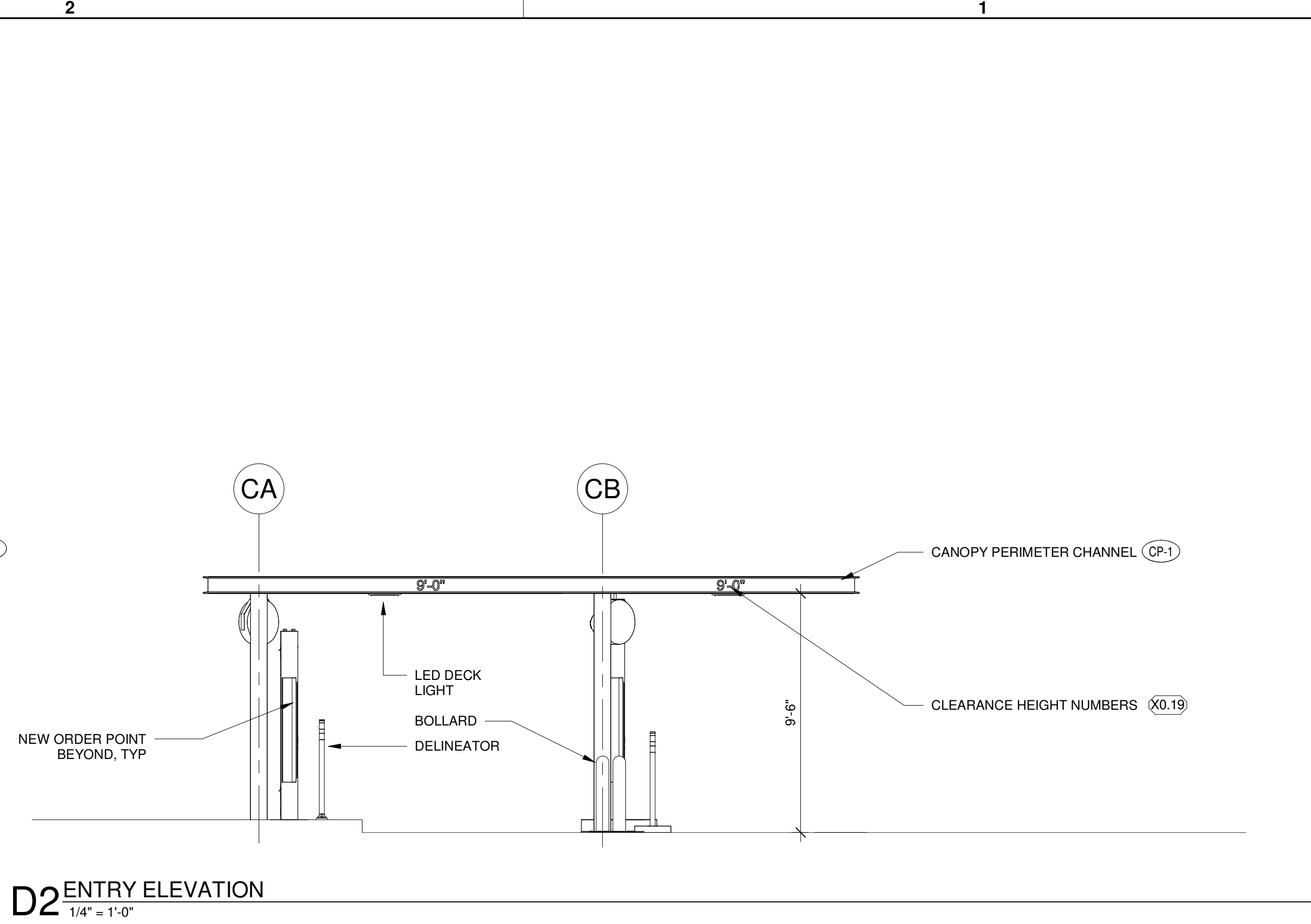
Architectural Plan set dated June 18, 2024



TAG	EQUIPMENT	APPLICABLE TIER			SUPPLIER	CONTACT	MANUFACTURER	MODEL NUMBER	COMMENTS
		1	2	3					
X0.3	BOLLARD SLEEVE	-	X	X	GC	-	INTERSTATE PRODUCTS OR EQUAL	1738YRS - EAGLE 6"	
X0.4	OP DIGITAL MENU BOARD	-	X	X	PATTISON	Helene Hammond (613-247-5379) hhammond@pattisonsign.com	PATTISON	-	
X0.6	C7 DOUBLE CLEARANCE BAR	-	BY SITE	BY SITE	UNISTRUCTURES OR CHANDLER SIGNS	Carolyn Ward (785-974-1759) c.ward@unistructures.com OR Kristen Hamilton, Amy McCann, or Scarlett Quintero (210-349-3804) CFA@chandlersigns.com	UNISTRUCTURES OR CHANDLER SIGNS	-	14'-6 1/2" L x 9'-0" H: See shop drawings for more information: Dark Bronze textured finish
X0.19	CLEARANCE TEXT	-	X	X	LANE OR FASHION	Larry Tolbert (705-545-7615) ltolbert@lanesupplyinc.com OR Jason Holmes (785-242-8111) jholmes@fashioninc.com	LANE OR FASHION	-	



A3 ORDER POINT CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"



A2 ORDER POINT CANOPY PLAN
1/4" = 1'-0"



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30349-2998

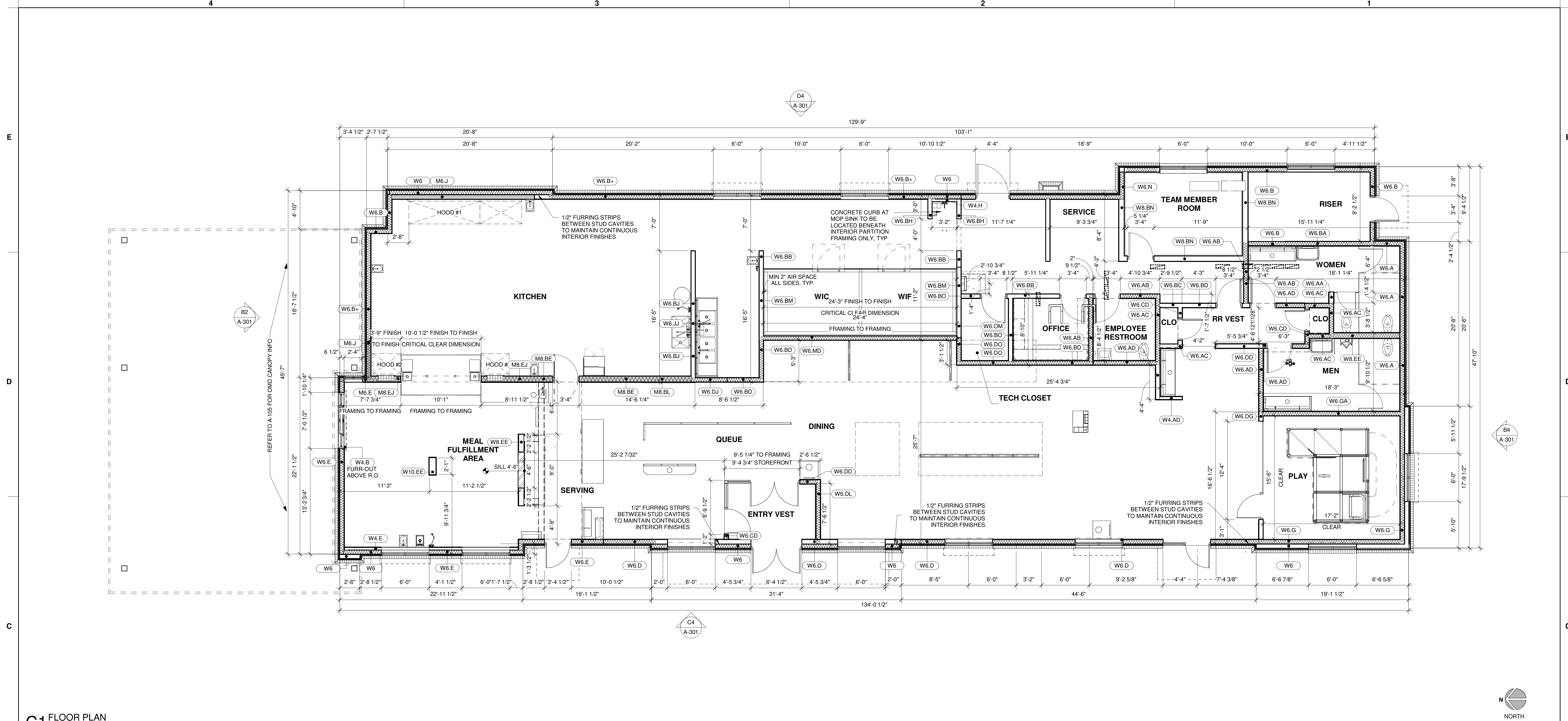
WARE MALCOMB
ARCHITECTURE
PLANNING
INTERIORS
2777 E Combase Rd, Suite #325
Phoenix, AZ 85016
P.480.767.1001

CHICK-FIL-A
Cordata & W. Bakerview Rd.
4030 Cordata Parkway
Bellingham, WA 98226

FSR#05529
BUILDING TYPE / SIZE: P14 LE XP
RELEASE: 03/22/24
PRINTED FOR
SD PACKAGE
REVISION SCHEDULE
NO. DATE DESCRIPTION

SD SET
CONSULTANT PROJECT # PHX23-0052-00
DATE: 03/22/24
DRAWN BY: M.M.O.
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SHEET
ORDER POINT CANOPY
SHEET NUMBER

A-104



C1 FLOOR PLAN
3/16" = 1'-0"

REFER TO LEGEND BELOW FOR WALL CAVITY FRAMING AND INSULATION	
REFER TO WALL TYPES ON THE RIGHT FOR SHEATHING AND MATERIALS ON EXPOSED SIDE(S) OF WALL (REFER TO ROOM LABELS FOR ORIENTATION)	
PLUS SIGN INDICATES ADDITIONAL LAYER OF SHEATHING	
WOOD STUD WALL	2x4 WOOD STUDS 2x6 WOOD STUDS 2x8 WOOD STUDS
METAL STUD WALL	3 5/8" METAL STUDS 6" METAL STUDS 8" METAL STUDS
BATT INSULATION	

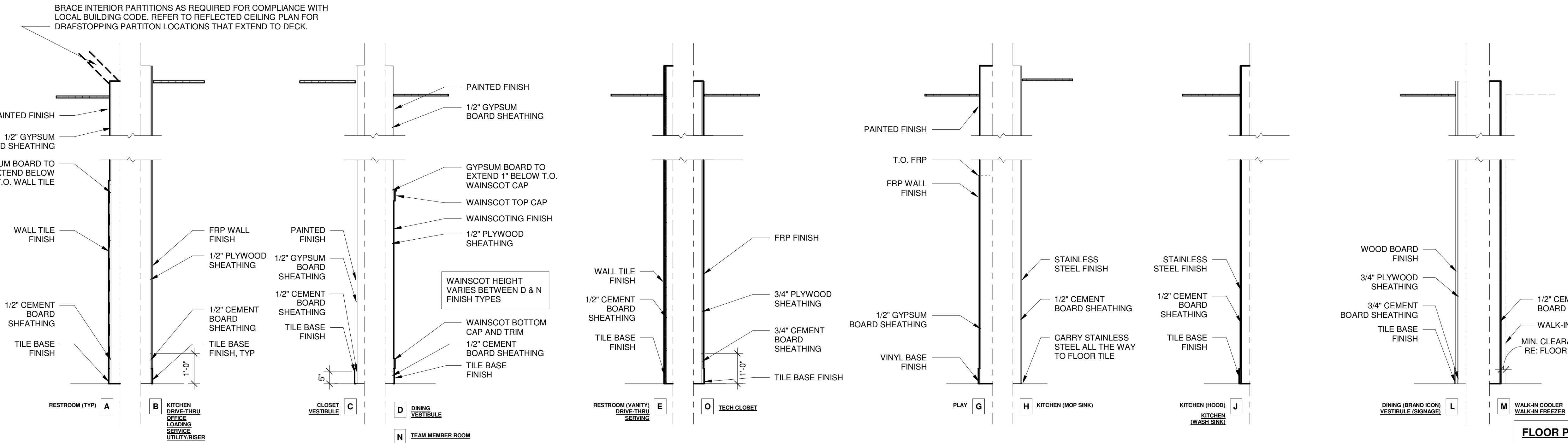
NOTE 1: WALL BLOCKING SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. BLOCKING SHALL INCLUDE, BUT IS NOT LIMITED TO: AREAS INDICATED ON INTERIOR ELEVATIONS FOR GRAB BARS, SHELVING BRACKETS, MONITORS, FIXTURES, ETC, AS WELL AS BLOCKING FOR WINDOWS, CANOPIES, ROOF FRAMING, ROOF TOP UNITS, ETC.

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. DIMENSIONS SHOWN ARE FROM FLOOR FINISH, TYP.

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.

WALL TYPES LEGEND
N.T.S.



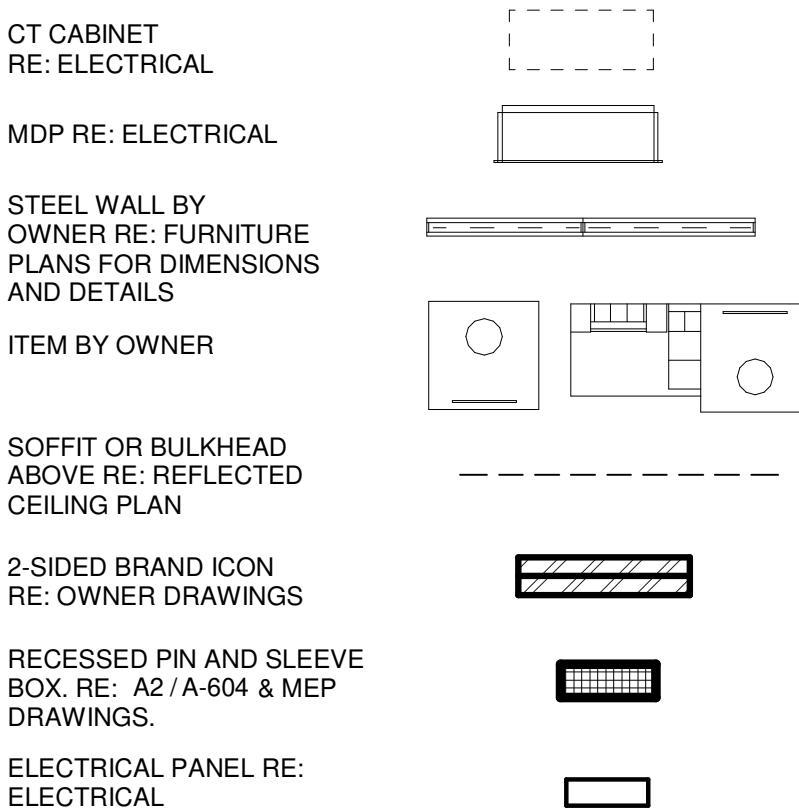
INSULATION SCHEDULE		
LOCATION	R-VALUE	THICKNESS
ROOF	R-29	5" RIGID
WALL (CONTINUOUS)	R-5	1" RIGID
WALL (CAVITY)	R-19	6" BATT
SLAB	R-10	2" RIGID

NOTES:
1. REFER TO FLOOR PLAN AND WALL SECTION SHEETS FOR INSULATION EXTENTS AND LOCATIONS.
2. REFER TO SPECIFICATIONS FOR INSULATION PRODUCT INFORMATION.

FLOOR PLAN GENERAL NOTES

- A.1 ALL DIMENSIONS SHOWN ARE FRAMING DIMENSIONS (FACE OF STUD/JAMB) UNLESS OTHERWISE NOTED.
A.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.
A.3 REFER TO CIVIL AND LANDSCAPE FOR LOCATIONS OF WALKS, BOLLARDS, LANDSCAPING AREAS, FLAG POLE, AND OTHER SITE ITEMS.
A.4 REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND TYPES OF CORNER GUARDS.
A.5 CONTRACTOR TO COORDINATE LOCATION OF POLE MOUNTED EXTERIOR CAMERA WITH STRONG SYSTEMS AND INSTALL UNDERGROUND CONDUIT AS REQUIRED. RE: ELECTRICAL.
A.6 REFER TO ACCESSIBILITY PLAN AND FURNITURE DRAWINGS FOR SEATING LAYOUT & SPECIFICATIONS. CONTACT: OWNER.
A.7 REFER TO ACCESSIBILITY PLAN AND OWNER DRAWINGS FOR CONDIMENT COUNTERS AND TRASH RECEPTACLES.
A.8 REFER TO IT WALLBOARD USER GUIDE FOR WALLBOARD INSTALLATION, IF APPLICABLE.
A.9 REFER TO MILLWORK PLAN FOR RAISED CONCRETE CURB LOCATIONS.
A.10 FREEZER AND COOLER DOORS AND HARDWARE SUPPLIED BY FREEZER/COOLER MANUFACTURER

FLOOR PLAN LEGEND:



Chick-fil-A

5200 Buffington Road
Atlanta, Georgia
30349-2998

WARE MALCOMB

2777 E Cambridge Rd, Suite #325
Phoenix, AZ 85016
P. 480.767.1001

CHICK-FIL-A
Cordata & W. Bakerview Rd.

4030 Cordata Parkway
Bellingham, WA 98226

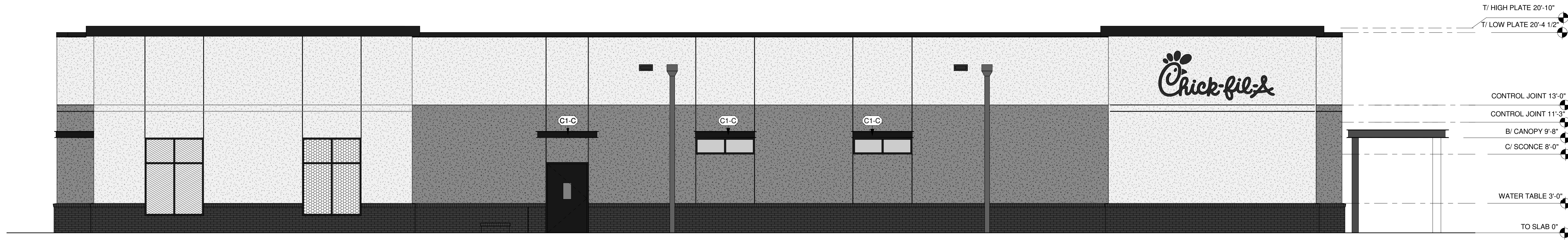
FSR#05529

BUILDING TYPE / SIZE: P14 LE XP
RELEASE: 03/22/24
PRINTED FOR: SD PACKAGE
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # PHX23-0052-00
DATE: 03/22/24
DRAWN BY: M.M.O.
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FLOOR PLAN

SHEET NUMBER

A-201



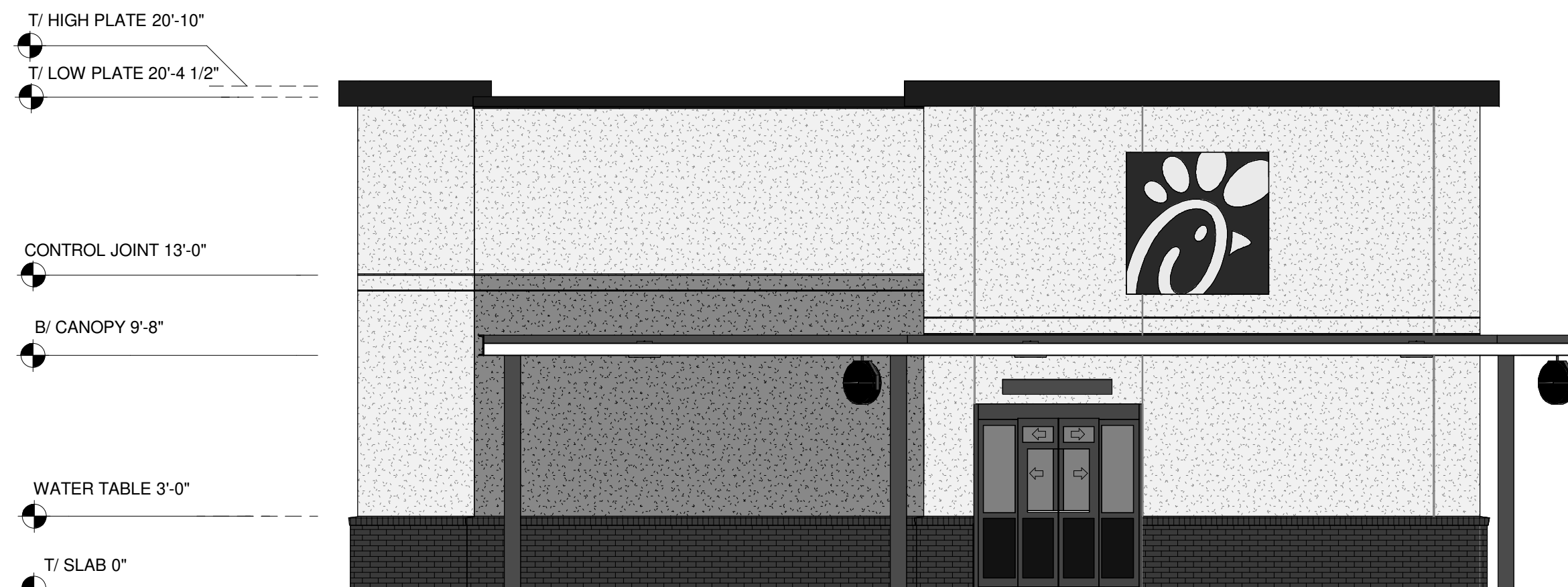
D4 EAST EXTERIOR ELEVATION
3/16" = 1'-0"



C4 WEST EXTERIOR ELEVATION
3/16" = 1'-0"



B4 SOUTH EXTERIOR ELEVATION
3/16" = 1'-0"



B2 NORTH EXTERIOR ELEVATION
3/16" = 1'-0"

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	NOTE
BR-A	BRICK VENEER (PRIMARY)		MODULAR			
CP-1	CANOPY METAL FASCIA		DURA COAT	DC19ST-2703	DARK BRONZE	*SEE APPROVED BRICK ALTERNATES OIL RUBBED BRONZE METALLIC TEXTURE PVD
CP-2	CANOPY METAL DECK				WHITE	SMOOTH WHITE, HIGH GLOSS
EC-1	PARAPET WALL COPING	DURQLAST / EXCEPTIONAL METALS			MIDNIGHT BRONZE	
PT-100	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #886-350	SW 2807	ROCKWOOD	REFUSE ENCLOSURE. FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-113	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #886-350	SW	DARK BRONZE	FINISH: SEMI-GLOSS
SC-1	STUCCO	SHERWIN WILLIAMS	POWERWALL	SW-7566	WEST HIGHLAND WHITE	FINISH: SAND MEDIUM
SC-2	STUCCO	SHERWIN WILLIAMS	POWERWALL	SW-6172	HARDWARE	FINISH: SAND MEDIUM
ST-1	STOREFRONT	YKK	YES 45		DARK BRONZE (MATTE)	

ATTACHED CANOPY SCHEDULE

Mark	Description	Count	Overall Width	Overall Depth	Tie Back Mounting (Offset From Top)	Integral Lighting
C1-C	Exterior Canopy	8	6'-4"	1'-0"	0"	No
C4-B	Exterior Canopy	2	5'-4"	4'-0"	2'-4"	No
C4-G	Exterior Canopy	1	7'-4"	4'-0"	2'-4"	No
C4-L	Exterior Canopy	1	28'-4"	4'-0"	2'-4"	No
Grand total		12				

CANOPY NOTES:

- BUILDING MOUNTED CANOPIES
 - 8" THICK CANOPY
 - KYNAR FINISH OF STRUCTURE, FASCIA, & DECKING TO MATCH (CP-1)
- COLUMN MOUNTED CANOPIES
 - 10" THICK CANOPY
 - FINISH OF STRUCTURE TO BE (CP-1)
 - FINISH OF DECKING TO BE (CP-2)

GENERAL NOTES

- ALL SIGNAGE PROVIDED BY OTHERS
- REF FLOOR PLAN AND WINDOW LEGEND FOR STOREFRONT INFORMATION

LEGEND

BRICK VENEER COLOR: MIDNIGHT SKY SIZE: MODULAR	STUCCO SYSTEM COLOR: WEST HIGHLAND WHITE FINISH: SAND MEDIUM	STUCCO SYSTEM COLOR: HARDWARE FINISH: SAND MEDIUM	PREFINISHED METAL COPING COLOR: MIDNIGHT BRONZE	EXPANSION JOINT. SEALANT COLOR TO MATCH MORTAR COLOR. RE: SPECIFICATIONS	CARD READER BY SECURITY VENDOR - RE: ELEC	SCUPPER - (PT-113) SEE A2 / A-503	DOWNSPOUT - (PT-113) SEE A4 / A-503	MDP - (PT-113) RE: ELECTRICAL	OIL EXTRACTION PORT ACCESS BOX	CO2 FILL BOX - RE: KITCHEN	LIGHT FIXTURE - RE: ELECTRICAL	CT CABINET - (PT-113) RE: ELECTRICAL
--	--	---	---	--	--	--------------------------------------	--	----------------------------------	-----------------------------------	-------------------------------	-----------------------------------	---



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

WARE MALCOMB

ARCHITECTURE
PLANNING
INTERIORS
2777 E Cambridge Rd, Suite #325
Phoenix, AZ 85016
P.480.767.1001

CHICK-FIL-A
Cordata & W. Bakerview Rd.

4030 Cordata Parkway
Bellingham, WA 98226

FSR#05529

BUILDING TYPE / SIZE: P14 LE XP
RELEASE: 03/22/24
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REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # PHX23-0052-00
DATE 03/22/24

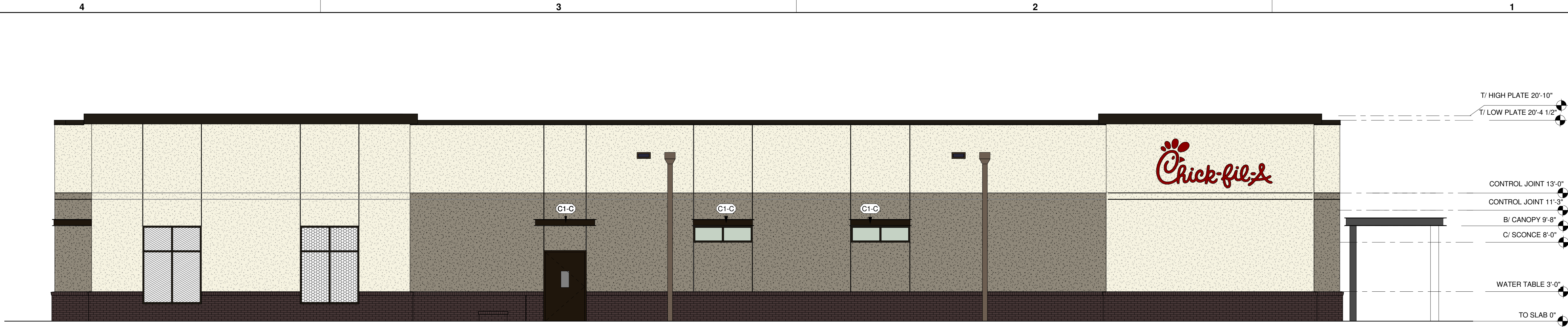
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EXTERIOR ELEVATIONS

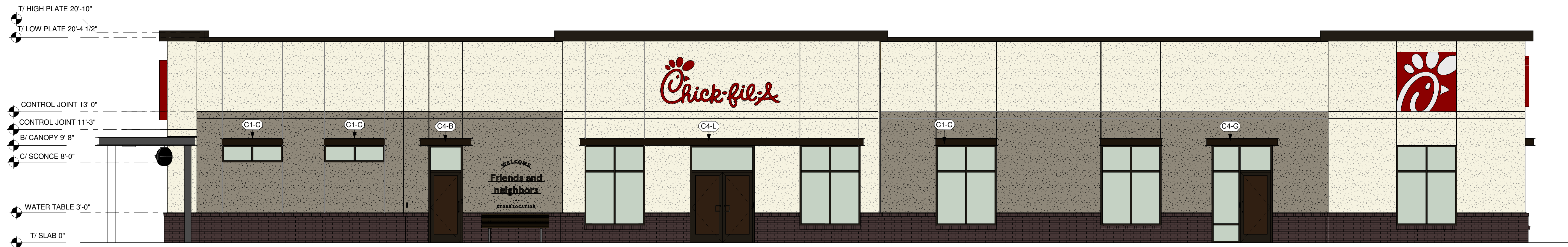
SHEET NUMBER

A-301

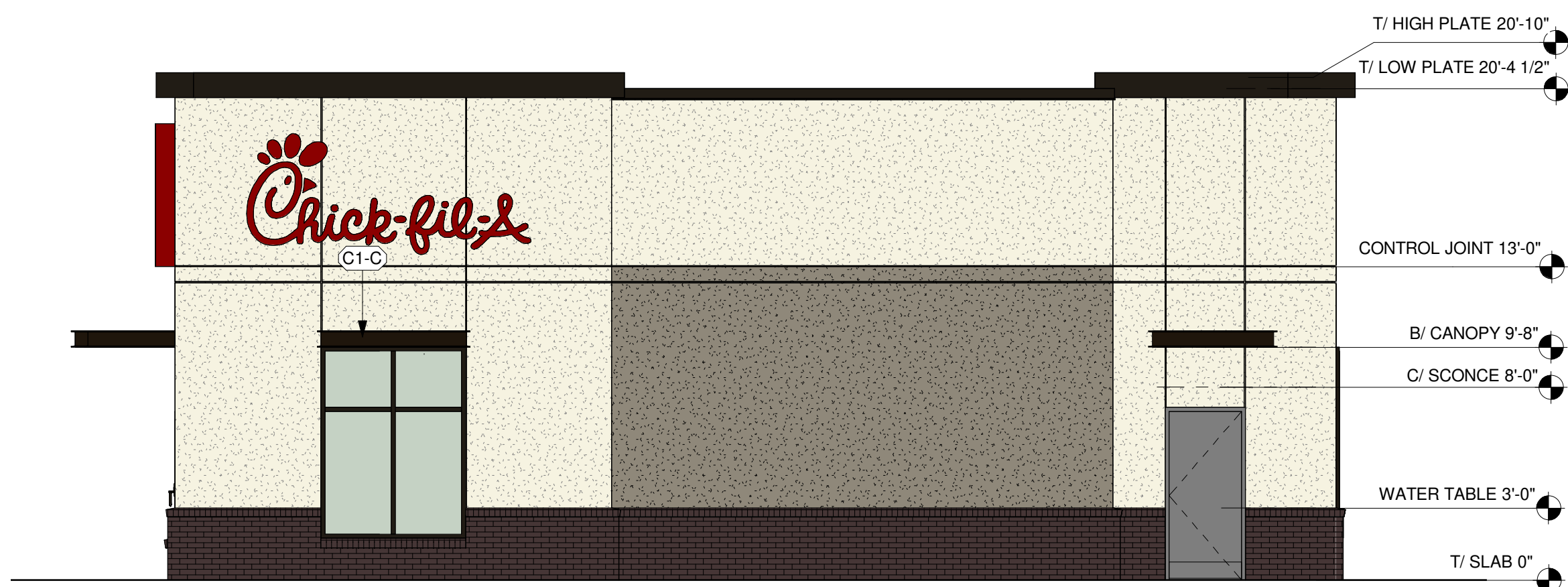
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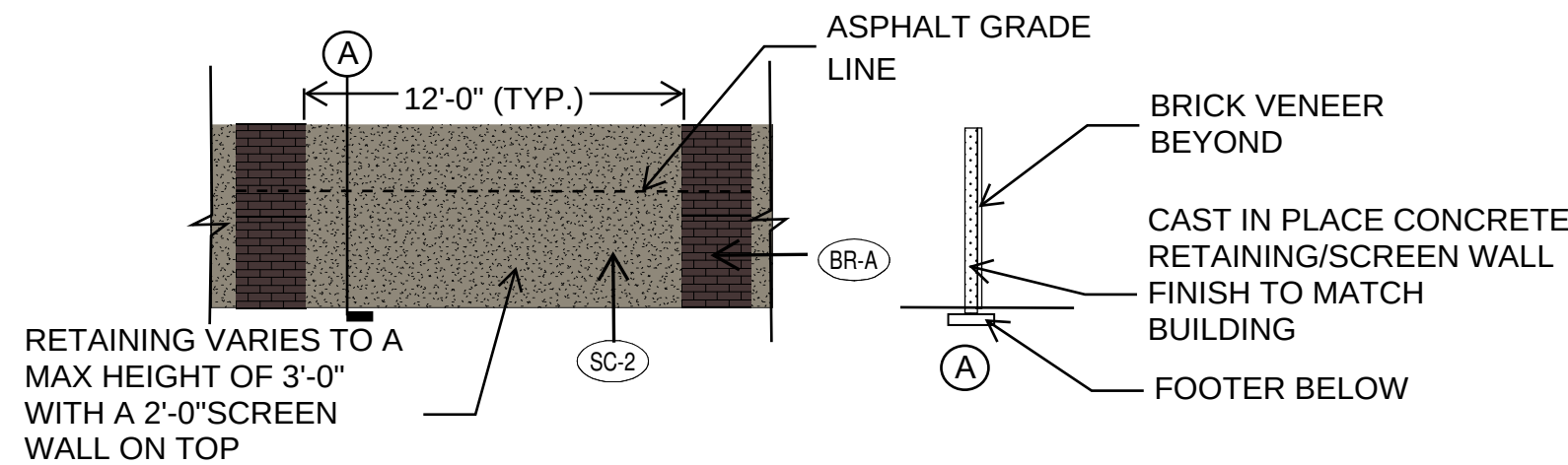
D4 EAST EXTERIOR ELEVATION
3/16" = 1'-0"



C4 WEST EXTERIOR ELEVATION
3/16" = 1'-0"



B4 SOUTH EXTERIOR ELEVATION
3/16" = 1'-0"



DETAIL: CAST IN PLACE CONCRETE SCREEN AND RETAINING WALL ON SOUTH SIDE

APPROVED BRICK ALTERNATES
(SEE NATIONAL ACCOUNTS LIST FOR CONTACT INFORMATION)

FINISH	MANUFACTURER	MODEL	MORTAR	PLANT LOCATION	PREFERRED REGION(S)
BR-A	(PRIMARY BRICK)				
BR-02	ACME BRICK	PALOMA GRAY	ARGOS, SAN TAN	ELGIN, TX	SOUTHWEST
BR-18	MUTUAL MATERIALS	IMPERIAL GRAY	ARGOS, SAN TAN	MICA, WA	WEST
BR-20	GLEN-GERY	KHAKI MATT	ARGOS, SAN TAN	CHESWICK, PA	ATLANTIC, NORTHEAST, MIDWEST
BR-30	CHEROKEE BRICK	LIGHT GRAY SMOOTH	ARGOS, SAN TAN	MACON, GA	SOUTHEAST

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	NOTE
BR-A	BRICK VENEER (PRIMARY)		MODULAR			
CP-1	CANOPY METAL FASCIA		DURA COAT	DC19ST-2703	DARK BRONZE	*SEE APPROVED BRICK ALTERNATES OIL RUBBED BRONZE METALLIC TEXTURE PVD
CP-2	CANOPY METAL DECK				WHITE	SMOOTH WHITE, HIGH GLOSS
EC-1	PARAPET WALL COPING	DUROLAST / EXCEPTIONAL METALS			MIDNIGHT BRONZE	
PT-100	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #866-350	SW 2807	ROCKWOOD	REFUSE ENCLOSURE FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-113	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #866-350	SW	Bronzestone	FINISH: SEMI-GLOSS
SC-1	STUCCO	SHERWIN WILLIAMS	POWERWALL	SW-7566	WEST HIGHLAND WHITE	FINISH: SAND MEDIUM
SC-2	STUCCO	SHERWIN WILLIAMS	POWERWALL	SW-6172	HARDWARE	FINISH: SAND MEDIUM
ST-1	STOREFRONT	YKK	YES 45		DARK BRONZE (MATTE)	



B2 NORTH EXTERIOR ELEVATION
3/16" = 1'-0"

ATTACHED CANOPY SCHEDULE

Mark	Description	Count	Overall Width	Overall Depth	Tie Back Mounting (Offset From Top)	Integral Lighting
C1-C	Exterior Canopy	8	6'-4"	1'-0"	0"	No
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C4-L	Exterior Canopy	1	28'-4"	4'-0"	2'-4"	No
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CANOPY NOTES:

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- COLUMN MOUNTED CANOPIES
- 10" THICK CANOPY
 - FINISH OF STRUCTURE TO BE (CP-1)
 - FINISH OF DECKING TO BE (CP-2)

GENERAL NOTES

- ALL SIGNAGE PROVIDED BY OTHERS
- REF FLOOR PLAN AND WINDOW LEGEND FOR STOREFRONT INFORMATION

LEGEND

BRICK VENEER
COLOR: MIDNIGHT SKY
SIZE: MODULAR

STUCCO SYSTEM
COLOR: WEST
HIGHLAND WHITE
#SW7566
FINISH: SAND MEDIUM

STUCCO SYSTEM
COLOR: HARDWARE
#SW6172
FINISH: SAND MEDIUM

PREFINISHED METAL
COPING
COLOR: MIDNIGHT
BRONZE

EXPANSION JOINT.
SEALANT COLOR TO
MATCH MORTAR COLOR.
RE: SPECIFICATIONS

CARD READER BY
SECURITY
VENDOR - RE: ELEC

SCUPPER - (PT-113)
SEE A2 / A-503

DOWNSPOUT - (PT-113)
SEE A4 / A-503

MDP - (PT-113)
RE: ELECTRICAL

OIL EXTRACTION
PORT ACCESS BOX

CO2 FILL BOX -
RE: KITCHEN

LIGHT FIXTURE -
RE: ELECTRICAL

CT CABINET - (PT-113)
RE: ELECTRICAL



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

WARE MALCOMB

ARCHITECTURE
PLANNING
INTERIORS

2777 E Camelback Rd, Suite #225
Phoenix, AZ 85016
P. 480.767.1001

CHICK-FIL-A
Cordata & W. Bakerview Rd.

4030 Cordata Parkway
Bellingham, WA 98226

FSR#05529

BUILDING TYPE / SIZE: P14 LE XP
RELEASE: 23.11

SD PACKAGE

REVISION SCHEDULE

NO. DATE DESCRIPTION

CONSULTANT PROJECT # PHX23-0052-00
DATE 03/22/24

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EXTERIOR ELEVATIONS

SHEET NUMBER

A-301



Chick-fil-A

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

SITE
ADAPT
LOGO
AND
ADDRESS

PROTOTYPICAL SET

NOT FOR
REGULATORY
APPROVAL,
BIDDING, OR
CONSTRUCTION

CHICK-FIL-A
Cordata & W. Bakerview
Road
4030 Cordata Parkway
Bellingham, WA 98226

FSR#05529

BUILDING TYPE / SIZE: P14 LE XP
RELEASE: 23.09

PRINTED FOR

PROJECT STATUS

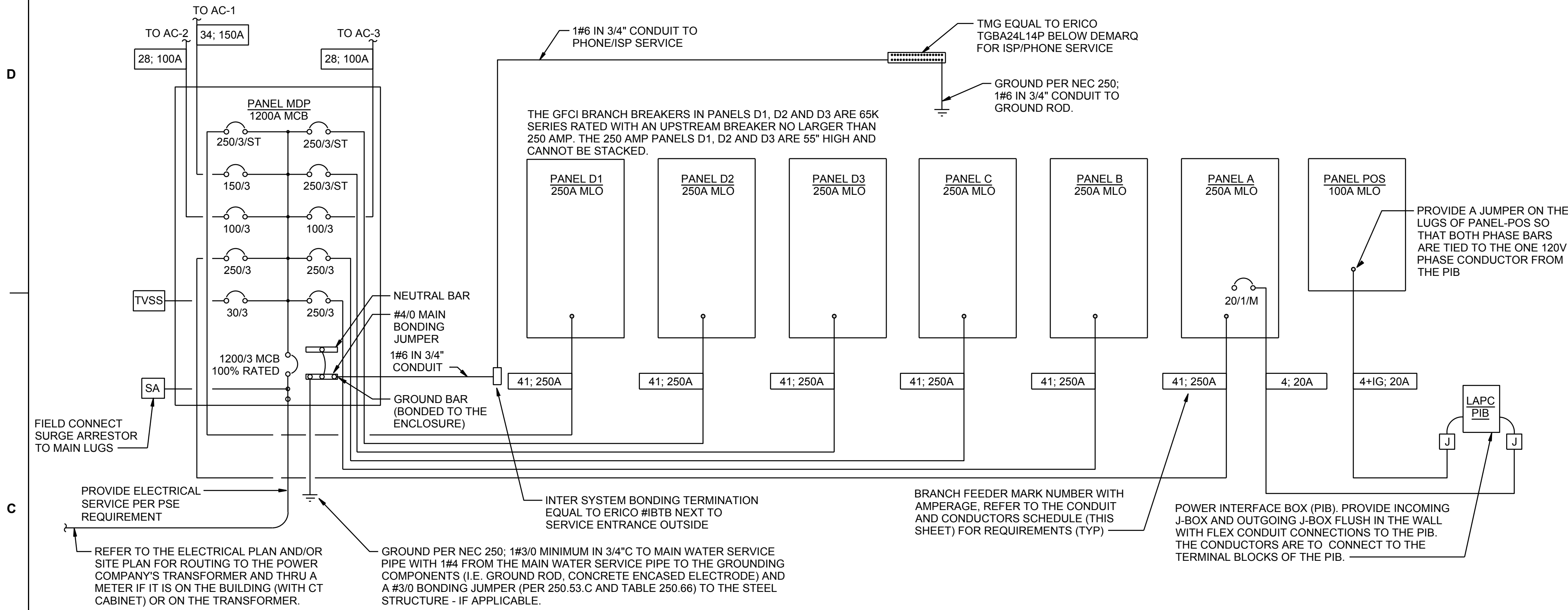
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # ###
DATE MMDDYY

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**PERSPECTIVE
VIEWS**

SHEET NUMBER



SINGLE-LINE DIAGRAM NOTES

- VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
- GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
- MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
- CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
- WIRE AND CABLE:
 - CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
 - CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
- PROVIDE ENGRAVED LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
- ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
- 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM U.L. SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
- AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
- ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

- PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM AN APPROVED NATIONAL ACCOUNTS VENDOR (SEE SHEET E-902 SECTION C16440, PANELBOARDS) PROVIDING SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
- PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
- CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D1, D2, D3, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
- ALL BREAKERS AND PANELS SHALL BE SQUARE-D.
- TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

SINGLE LINE DIAGRAM

SCALE
NTS

1

B1 CONDUIT AND CONDUCTORS SCHEDULE

Mark No.	OCP Device (Amp/Poles)	Conductors Total Amps	Conductors						Raceway Size (Nominal Inches)								
			Phase & Neutral		Min Eq Grd		No. Sets	Phase, Neutral & Equip Grd				With IG					
			Qty	Size	Type	Qty/Set		Size	No.	EMT	IMC	RIGID	PVC	EMT	IMC	PVC	
1	20/1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.00
12	40/3	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	45/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	50/1	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	50/2	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00	1.00
16	50/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
17	60/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25	1.25
18	60/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25	1.25
19	60/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
20	70/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25	1.25
21	70/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25	1.25
22	70/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/2	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
24	80/3	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50	1.50
25	90/2	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50	1.25
26	90/3	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50	1.50
27	100/2	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00
28	100/3	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
29	110/2	-	150	3	1/0	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50	1.25
30	110/3	-	150	4	1/0	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50	1.50
31	125/2	-	150	3	1/0	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00
32	125/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
33	150/2	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00	2.00
34	150/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/2	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
36	175/3	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50
37	200/2	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50	2.50
38	200/3	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
39	225/2	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50	2.50
40	225/3	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	2.50	3.00	3.00
41	250/3	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42A	300/3	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42B	300/3	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
43A	350/3	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50
43B	350/3	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44A	400/3	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44B	400/3	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
45A	600/3	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
45B	600/3	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.50
46A	800/3	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
46B	800/3	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
47	1000/3	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
48	1200/3	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	3.50	4.00
49	1600/3	-	1675	4	400	THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Notes:
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

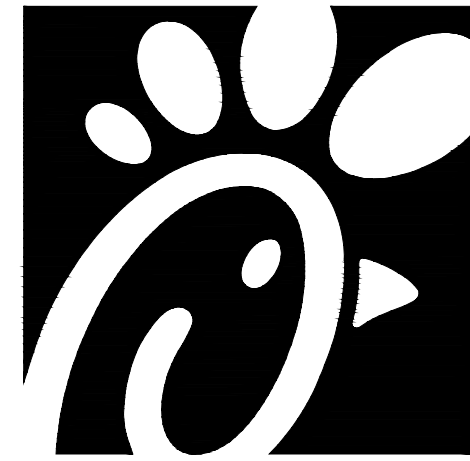
Omit Neutral conductor on all Delta primary transformer feeders or single-phase 2 pole loads and 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.

CONDUIT AND CONDUCTOR SCHEDULE

SCALE
NTS

2



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SHEET

SINGLE LINE DIAGRAM

SHEET NUMBER

E5.0



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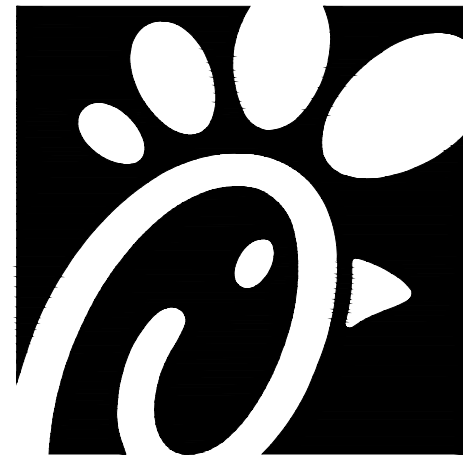
SHEET NUMBER

EP1.0

SCALE
1/16" = 1'-0"

1





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SHEET

EXTERIOR LIGHTING CUTSHEET

SHEET NUMBER

EXTERIOR LIGHTING CUTSHEET

SCALE
NTS

1

EP1.1

LumarkPrevail Discrete LED

Mounting Details

Mounting Configurations and EPAs

Optical Configurations

Optical Distributions

Product Specifications

LumarkPrevail Discrete LED

Mounting Details

Mounting Configurations and EPAs

Optical Configurations

Optical Distributions

Product Specifications

LumarkPrevail Discrete LED

Ordering Information

Technical Specifications

Accessories

LumarkPrevail Discrete LED

Product Features

Product Certifications

Connected Systems

LumarkPrevail Discrete LED

Energy and Performance Data

Power and Lumens

LumarkPrevail Discrete LED

Energy and Performance Data

Power and Lumens

LumarkPrevail Discrete LED

Energy and Performance Data

Power and Lumens

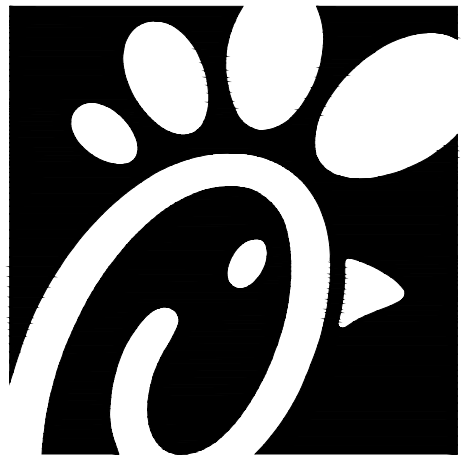
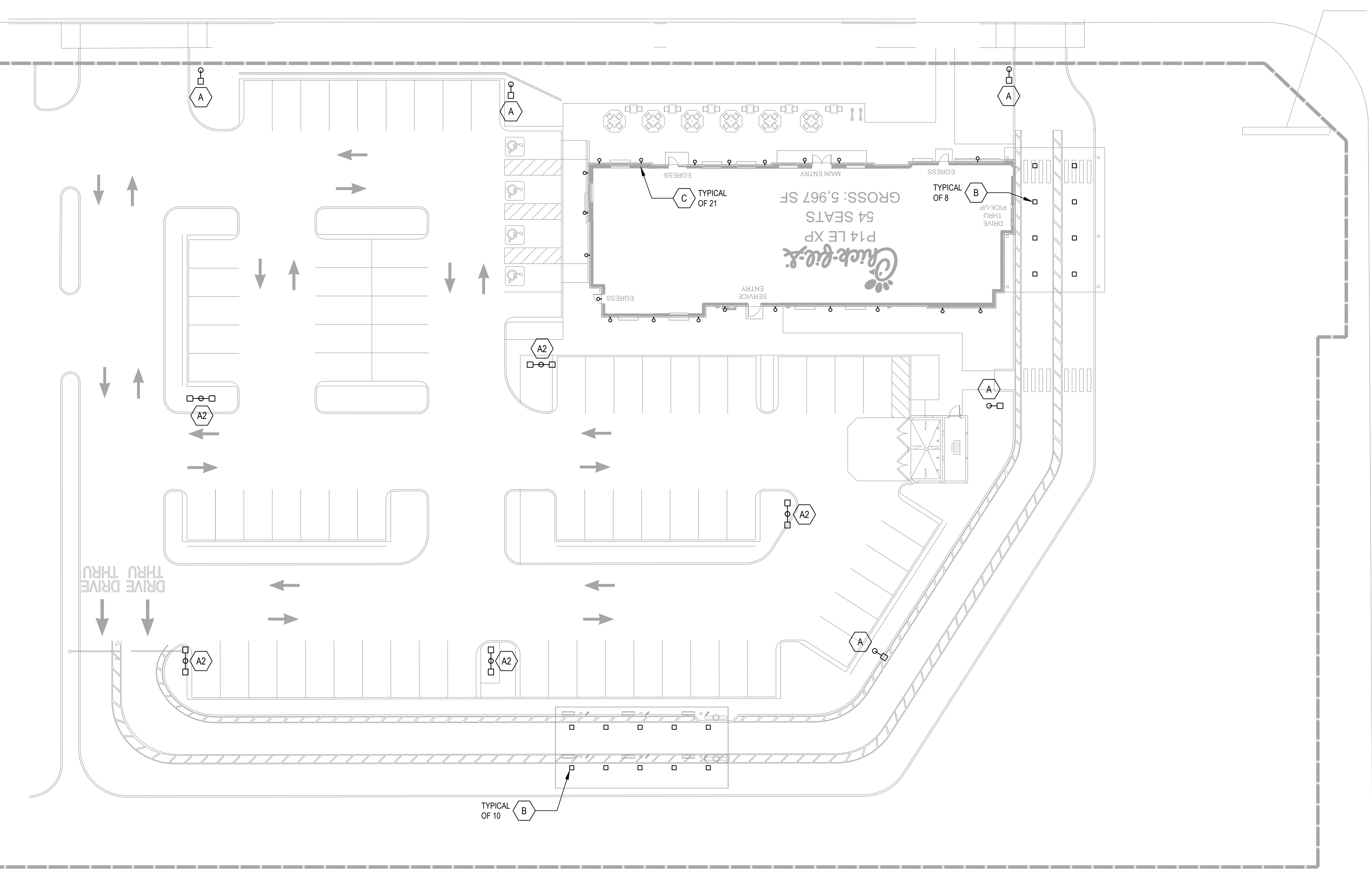
LumarkPrevail Discrete LED

Energy and Performance Data

Power and Lumens

SCHEDULE												
SYMBOL	TAG	QTY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	FILE NAME	(QTY)/LAMP	LUMENS	LLF	WATTS	DISTRIBUTION	MOUNTING HEIGHT
	A	5	COOPER LIGHTING	PRV-PA2B-730-U-T4W-HSS	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD	PRV-PA2B-730-U-T4W-HSS.lvs	1	12,816	0.9	151.0	BUG RATING : B1-U0-G3	20 FT
	A2	5	COOPER LIGHTING	PRV-PA2B-730-U-T4W	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS	PRV-PA2B-730-U-T4W.lvs	2	25,632	0.9	302.0	BUG RATING : B3-U0-G4	20 FT
	B	18	DECO LIGHTING	D533R-PRO-55-30-U-S-W-M	LED CANOPY LUMINAIRE, 3000K, 80 CRI		1	7910	0.9	55		RECESS
	C	21	PROGRESS LIGHTING	P567S-31	5" UP/DOWN CYLINDER WITH HEAVY DUTY ALUMINUM CONSTRUCTION, WET LISTED, WITH TWO GENERAL ELECTRIC RETROFIT LAMPS #LED12P30RW83025		2		0.9	24		9 FT

CORDATA PKWY



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SHEET

EXTERIOR LIGHTING PLAN

SHEET NUMBER

EXTERIOR LIGHTING PLAN

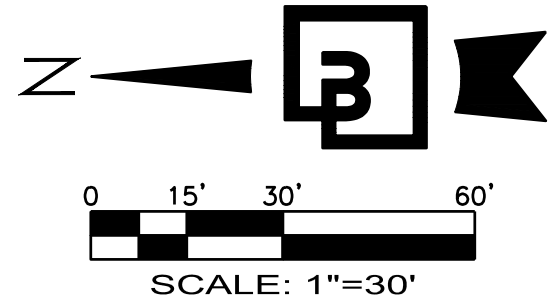
SCALE
1/16" = 1'-0"

1

ES1.0

Exhibit W
Landscape & Irrigation Plan set
dated June 19, 2024

The bottom left corner of the page features two overlapping geometric shapes. A large, light purple triangle points upwards from the bottom left towards the center. Overlapping its right side is a smaller, dark blue triangle pointing downwards from the top right towards the bottom right corner.



TREE RETENTION PLAN

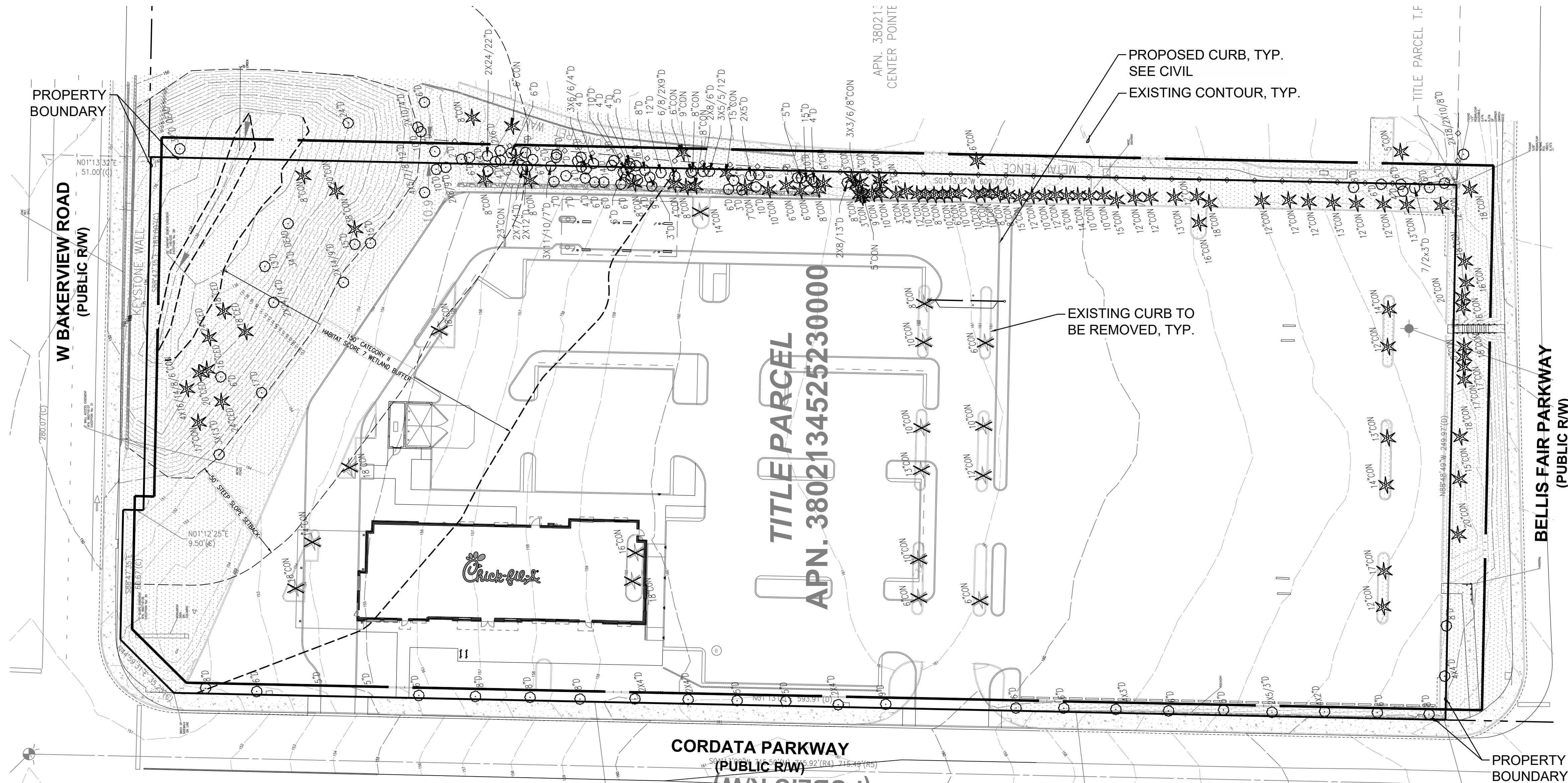
CHICK-FIL-A BELLINGHAM

SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA

LEGEND

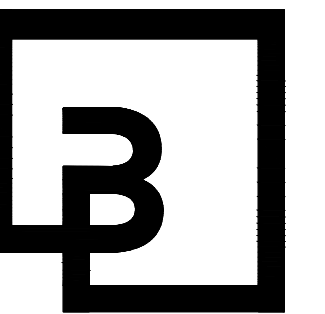
- EXISTING LANDSCAPING TO REMAIN PROTECT DURING CONSTRUCTION
- EXISTING TREE TO BE RETAINED PROTECT DURING CONSTRUCTION
- EXISTING TREE TO BE REMOVED

TREES TO BE REMOVED	17
TREES TO BE RETAINED	199



Chick-fil-A

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Atlanta, Georgia 30349-2998



Barghausen
Consulting Engineers, Inc.

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Kent, WA 98032
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& W. BAKERVIEW RD.
4030 CORDATA PARKWAY
BELLINGHAM, WA

FSR#05529

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	22779
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SHEET
TREE RETENTION PLAN

SHEET NUMBER
L1 OF 7



Know what's below.
Call before you dig.
Dial 811

SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA

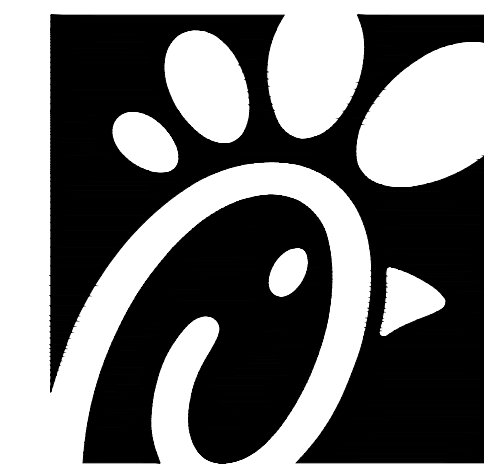
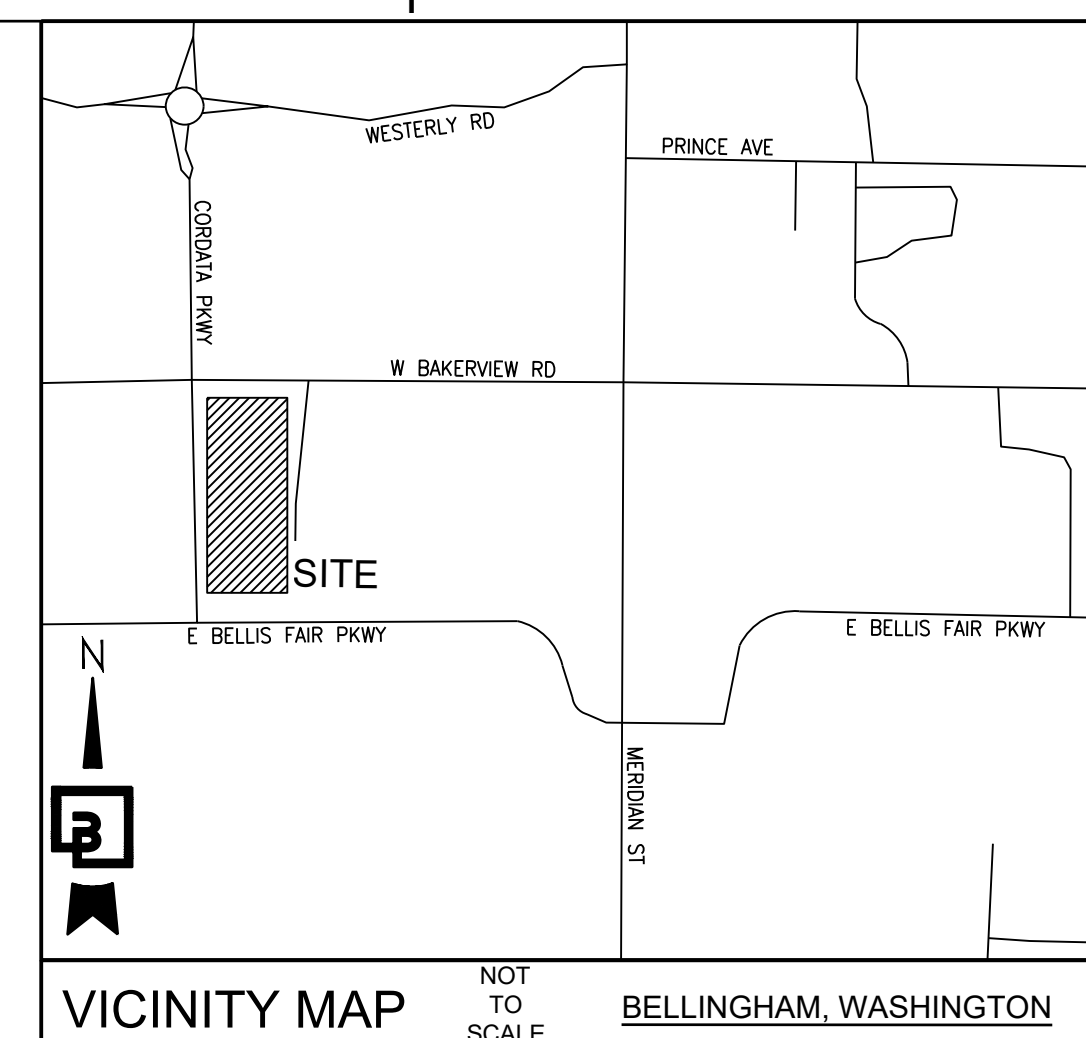
EXISTING LANDSCAPING TO REMAIN
PROTECT DURING CONSTRUCTION



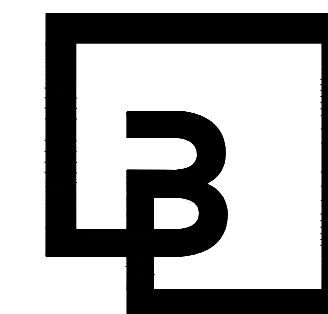
EXISTING TREE TO BE RETAINED
PROTECT DURING CONSTRUCTION

1 PERIMETER TREE REQUIRED PER 10 PARKING STALLS	
PARKING STALLS	79
PERIMETER TREES REQUIRED	8
PERIMETER TREES PROVIDED	14

20 SF INTERIOR PARKING LOT LANDSCAPE AREA REQUIRED PER PARKING STALL	
PARKING STALLS	79
INTERIOR PARKING LOT LANDSCAPE REQ.	1,580 SF
INTERIOR PARKING LOT LANDSCAPE PROV.	3,560 SF

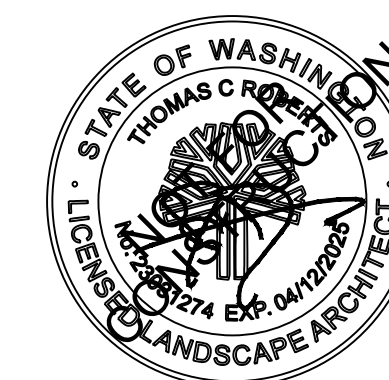


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& W. BAKERVIEW RD.
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BELLINGHAM, WA

FSR#05529

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	22770
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DATE 06/19/24

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SHEET

LANDSCAPE PLAN

SHEET NUMBER

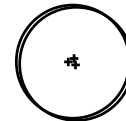
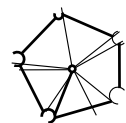
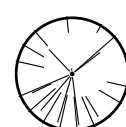
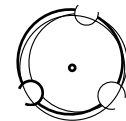
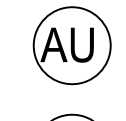
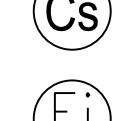
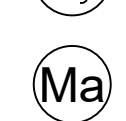
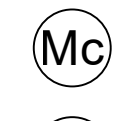
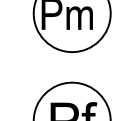
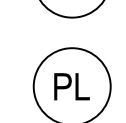
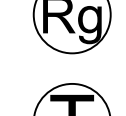
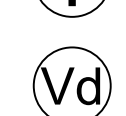
L2 OF 7

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SEE SHEET L3 FOR PLANT SCHEDULE AND GREEN FACTOR SCORESHEET

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	4	3	2	1				
	PLANT SCHEDULE AND GREEN FACTOR							
	CHICK-FIL-A BELLINGHAM							
	SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST							
	BELLINGHAM, WHATCOM COUNTY, WA							
E								
	PLANT SCHEDULE							
	SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	WATER USE	ORIGIN	
	DECIDUOUS TREES							
		6	ACER CIRCINATUM / VINE MAPLE SMALL TREE. NURSERY GROWN, 2" CUMULATIVE CAL. IF MULTI-STEM. STAKE AND GUY ONE GROWING SEASON	B & B	1" CAL., 6' MIN. HT.	LOW	NATIVE	
		5	FRAXINUS LATIFOLIA / OREGON ASH LARGE TREE PER C.O.B. LIST. NURSERY GROWN, FULL TOP GROWTH. STAKE AND GUY ONE GROWING SEASON	B & B	1" CAL., 6' MIN. HT.	MEDIUM	NATIVE	
		27	GLEDTISIA TRIACANTHOS INERMIS 'SHADEMASTER' / HONEY LOCUST LARGE TREE PER C.O.B. LIST. NURSERY GROWN FOR STREET TREE USE, BRANCHING AT 5'. STAKE AND GUY ONE GROWING SEASON	B & B	1" CAL., 6' MIN. HT.	LOW	ADAPTIVE	
	EVERGREEN TREES							
		5	PSEUDOTSUGA MENZIESII / DOUGLAS-FIR LARGE TREE PER C.O.B. LIST. NURSERY GROWN, SINGLE UNCUT LEADER. STAKE AND GUY ONE GROWING SEASON.	B & B	1" CAL., 6' MIN. HT.	LOW	NATIVE	
	STREET TREES							
		1	ACER RUBRUM 'BOWHALL' / BOWHALL RED MAPLE MEDIUM TREE PER C.O.B. LIST. NURSERY GROWN FOR STREET TREE USE, BRANCHING AT 5'. STAKE AND GUY ONE GROWING SEASON	B & B	2.5" CAL, 10' MIN. HT.	LOW	ADAPTIVE	
	SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.	WATER USE	ORIGIN	FOLIAGE	
	SHRUBS							
		17	ARBUTUS UNEDO 'COMPACTA' / STRAWBERRY TREE DO NOT SUBSTITUTE NON-DWARF VARIETIES	2 GAL.	MEDIUM	ADAPTIVE	EVERGREEN	
		85	CORNUS SERICEA 'KELSEYI' / DWARF REDTWIG DOGWOOD DO NOT SUBSTITUTE OTHER VARIETIES	1 GAL.	LOW	NATIVAR	DECIDUOUS	
		30	EUONYMUS JAPONICUS 'AUREO-MARGINATUS' / GOLDEN EUONYMUS	2 GAL.	LOW	ADAPTIVE	EVERGREEN	
		54	MAHONIA AQUIFOLIUM / OREGON GRAPE	2 GAL.	LOW	NATIVE	EVERGREEN	
		24	MYRICA CALIFORNICA / PACIFIC WAXMYRTLE	2 GAL.	LOW	NATIVE	EVERGREEN	
		41	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE DO NOT SUBSTITUTE OTHER VARIETIES	2 GAL.	LOW	ADAPTIVE	EVERGREEN	
		79	POTENTILLA FRUTICOSA 'GOLDFINGER' / BUSH CINQUEFOIL DO NOT SUBSTITUTE OTHER VARIETIES	2 GAL.	LOW	NATIVAR	DECIDUOUS	
		69	PRUNUS LAUROCERASUS 'MOUNT VERNON' / LOW ENGLISH LAUREL DO NOT SUBSTITUTE OTHER VARIETIES	2 GAL.	LOW	ADAPTIVE	EVERGREEN	
		15	RIBES SANGUINEUM / FLOWERING REDCURRANT	2 GAL.	LOW	NATIVE	DECIDUOUS	
		22	ROSA GYMNOCARPA / BALDHIP ROSE	2 GAL.	LOW	NATIVE	EVERGREEN	
		15	THUJA OCCIDENTALIS 'SMARAGD' / ARBORVITAE SYN. 'EMERALD GREEN'. DO NOT SUBSTITUTE OTHER VARIETIES	4' MIN. HT.	LOW	ADAPTIVE	EVERGREEN	
		63	VIBURNUM DAVIDII / DAVID VIBURNUM	2 GAL.	LOW	ADAPTIVE	EVERGREEN	
	GRASSES							
		84	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	1 GAL.	LOW	ADAPTIVE	GRASS/GRASS-LIKE	
	SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.	WATER USE	ORIGIN	FOLIAGE	SPACING
	GROUND COVERS							
		400	ARCTOSTAPHYLOS UVA-URSI 'MASSACHUSETTS' / KINNIKINNICK	1 GAL.	LOW	NATIVE	EVERGREEN	36" o.c.
		294	FRAGARIA CHILOENSIS / BEACH STRAWBERRY	1 GAL.	LOW	NATIVE	EVERGREEN	36" o.c.
A	4	3	2	1				

Green Factor Score Sheet (City of Bellingham)

Total Score: 0.34028844

Req'd Score 0.3

Project Title:

Parcel Size 152962

Landscaped Elements**

A Landscaped areas (select one of the following for each area)

1 Landscaped areas with a soil depth of less than 24"

2 Landscaped areas with a soil depth of 24" or greater

3 Bioretention facilities

B Plantings (credit for plants in landscaped areas from Section A)

1 Mulch, ground covers, or other plants less than 2' tall at maturity

Shrubs or perennials 2'+ at maturity- calculated at 12 sq ft per plant (typically planted no closer than 18" on center)

Tree canopy for "small trees" or equivalent (canopy spread of 8' to 15') - calculated at 75 sq ft per tree

3 (canopy spread 16' to 20') - calculated at 150 sq ft per tree

Tree canopy for "medium/large trees" or equivalent (canopy spread of 21' to 25') - calculated at 250 sq ft per tree

Tree canopy for "large trees" or equivalent (caopy spread of 26' to 30') calculated at 350 sq ft per tree

6 (with trunks 6"+ in diameter - calculated at 20 sq ft per inch in diameter

7

C Green roofs

1 Over at least 2" and less than 4" of growth medium

2 Over at least 4" of growth medium

D Vegetated walls

E Approved water features

F Permeable paving

1 Permeable paving over at least 6" and less than 24" of soil or gravel

2 Permeable paving over at least

G Structural soil systems

H Bonuses

1 Drought-tolerant or native plant species

Landscaped ares where at least 50% of annual irrigation needs are met through the use of harvested rainwater

Landscaping visible to passersby from adjacent public right of way or public open spaces

4 Landscaping in food cultivation

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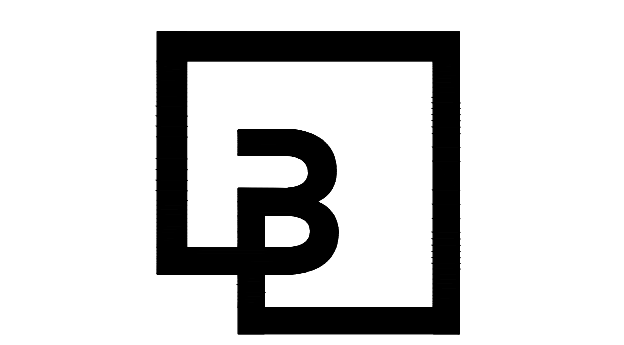
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Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349-2998



Barghausen
Consulting Engineers, Inc.

18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



CHICK-FIL-A
CORDATA PARKWAY
& W. BAKERVIEW RD.
4030 CORDATA PARKWAY
BELLINGHAM, WA

FSR#05529

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 22779
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SHEET
PLANT SCHEDULE AND GREEN FACTOR

SHEET NUMBER
L3 OF 7

Green Factor Score Sheet (City of Bellingham)

Total Score: 0.34028844

Req'd Score 0.3

enter sq ft

Parcel Size 152962

Project Title:

Totals from GF worksheet

Factor

Total

Landscaped Elements**

A Landscaped areas (select one of the following for each area)

1 Landscaped areas with a soil depth of less than 24" 0.1 0

2 Landscaped areas with a soil depth of 24" or greater 0.8 33786.4

3 Bioretention facilities 1.0 0

B Plantings (credit for plants in landscaped areas from Section A)

1 Mulch, ground covers, or other plants less than 2' tall at maturity 0.1 789.8

Shrubs or perennials 2'+ at maturity- calculated

2 at 12 sq ft per plant (typically planted no closer than 18" on center) 0.3 153

Tree canopy for "small trees" or equivalent

3 (canopy spread of 8' to 15') - calculated at 75 sq ft per tree 0.3 1.8

Tree canopy for "small/medium trees" or equivalent

4 (canopy spread 16' to 20') - calculated at 150 sq ft per tree 0.3 0

Tree canopy for "medium/large trees" or equivalent

5 (canopy spread of 21' to 25') - calculated at 250 sq ft per tree 0.4 0.4

Tree canopy for "large trees" or equivalent

6 (caopy spread of 26' to 30') calculated at 350 sq ft per tree 0.4 14.4

Tree canopy for preservation of large existing trees

7 with trunks 6"+ in diameter - calculated at 20 sq ft per inch in diameter 0.8 138.4

C Green roofs

1 Over at least 2" and less than 4" of growth medium 0.4 0

2 Over at least 4" of growth medium 0.7 0

D Vegetated walls 0.7 0

E Approved water features 0.7 0

F Permeable paving

1 Permeable paving over at least 6" and less than 24" of soil or gravel 0.2 0

2 Permeable paving over at least 0.5 0

G Structural soil systems 0.2 0

H Bonuses

1 Drought-tolerant or native plant species 0.1 16067

Landscaped ares where at least 50% of annual irrigation needs are met through the use of harvested rainwater 0.2 0

Landscaping visible to passersby from adjacent public right of way or public open spaces 0.1 1100

4 Landscaping in food cultivation 0.1 0



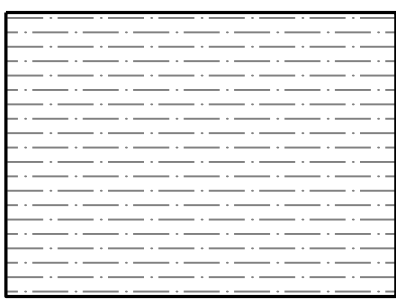
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IRRIGATION PLAN
CHICK-FIL-A BELLINGHAM
SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA

IRRIGATION SCHEDULE

DESCRIPTION

DRIP IRRIGATION:



HUNTER LANDSCAPE DRIPLINE COMPONENTS
HDL-06-12-250-CV SUB-SURFACE DRIPLINE TUBING 0.6 GPH PRESSURE COMPENSATING EMITTERS WITH CHECK VALVE AT 12" ON-CENTER SPACING - ALL TUBING SHALL BE INSTALLED ON GRADE W/ 9" WIRE STAKES FOUR (4) FEET ON-CENTER; VERIFY THE LAYOUT AND 18" ON-CENTER SPACING IN THE FIELD PRIOR TO STARTING WORK. INSTALL ALL COMPONENTS PER MANUF. SPECIFICATIONS.

USE HUNTER PLD-LOC FITTINGS FOR CONNECTION BETWEEN PVC LATERAL LINES AND INLINE DRIP TUBING



DRIP IRRIGATION: ICZ-101/151-XL REMOTE CONTROL DRIP ZONE KIT WITH FILTER AND PRESSURE REGULATOR MAXIMUM 2 VALVES PER BOX



HUNTER SOLAR SYNC WIRE RAIN SENSOR COMBO



HUNTER PRO-C CONTROLLER 3 TO 15 STATIONS, (HARDWIRE CONNECTION); PROVIDE GROUND AND BATTERIES PER MANUFACTURER'S SPECIFICATIONS

P.O.C.



WILKINS 950 XLT- 1" DOUBLE CHECK VALVE (STATE APPROVED); TEST AND CERTIFICATION BY LICENSED BACKFLOW TESTER
WILKINS 850 - BALL VALVE, SIZE TO MATCH PIPE
CARSON INDUSTRIES #1730 (TWO AT P.O.C.) GRADE LEVEL VAULT WITH BOLT LOCK LID



PLASTIC BALL VALVE, MATCH LINE SIZE, IN VALVE BOX



HUNTER HQ-33DLRC 3/4" QUICK COUPLING VALVE, IN VALVE BOX, PROVIDE TWO KEYS AND SWIVELS

MAINLINE - SCH 40 PVC (18" COVER); SIZE PER PLAN, 1-1/2" SIZE MINIMUM

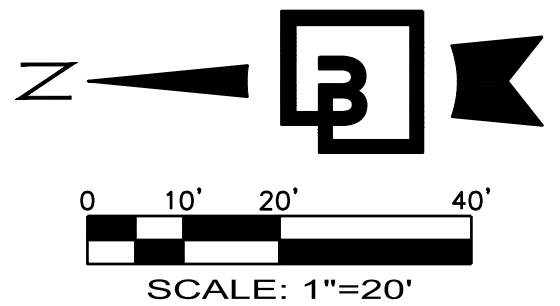
LATERAL - SCH 40 PVC (12" COVER); SIZE PER PLAN, 3/4" SIZE MINIMUM

SLEEVE - SCH 40 PVC; 24" MINIMUM COVER AT VEHICLE CROSSINGS AND 18" MINIMUM COVER IN LANDSCAPE AREAS, 6" SIZE WHERE IRRIGATION MAINLINE TRAVELS THROUGH PIPE. 4" SIZE WHERE ONLY LATERALS TRAVEL THROUGH PIPE

IRRIGATION SHOWN DIAGRAMMATICALLY FOR PLAN CLARITY. COMMON TRENCH AND PLACE EQUIPMENT IN LANDSCAPE; MANIFOLD GROUPED VALVES IN ADJACENT SHRUB AREAS WHERE FEASIBLE.

SCH 40 PIPE SIZING CHART

PIPE SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	
FLOW GPM	1-8	8.1-13	13.1-23	23.1-32	32.1-53	53.1-74	GPM (MAX.)

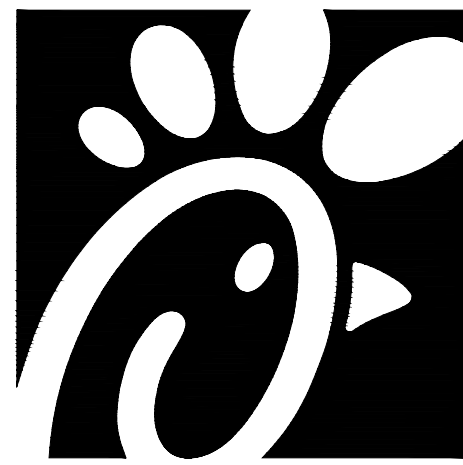


PROPERTY
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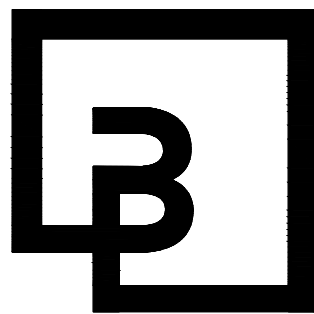
CORDATA PARKWAY
(PUBLIC R/W)



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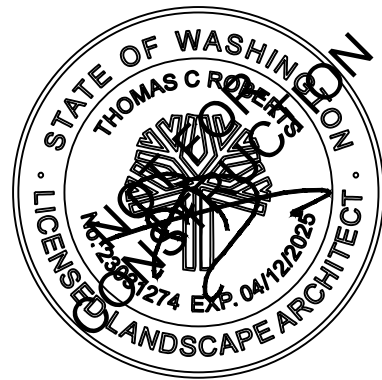


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CHICK-FIL-A
CORDATA PARKWAY
& W. BAKERVIEW RD.
4030 CORDATA PARKWAY
BELLINGHAM, WA

FSR#05529

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 22779

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SHEET
IRRIGATION PLAN

SHEET NUMBER

L5 OF 7

4

LANDSCAPE IRRIGATION NOTES

1. GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR TO COORDINATE:

A) INSTALLATION OF 110V ELECTRICAL SERVICE FROM ELECTRICAL SOURCE TO AUTOMATIC CONTROLLER, INCLUDING WIRE HOOK-UP INTO MOUNTED CONTROLLER. IRRIGATION CONTRACTOR WILL MOUNT CONTROLLER PER DESIGN AND COORDINATE WITH GENERAL CONTRACTOR.

B) INSTALLATION OF IRRIGATION/SERVICE METER AND STUB TO IRRIGATION POINT OF CONNECTION, PER UTILITY PLAN(S). PROVIDE STANDARD THREADED STUB-OUT WITH THREADED CAP ON DISCHARGE SIDE OF METER. STUB-OUT TO BE INSTALLED APPROXIMATELY 18 INCHES BELOW FINISH GRADE.

C) VERIFICATION OF STATIC WATER PRESSURE AT POINT-OF-CONNECTION (P.O.C.) CONTRACTOR SHALL NOTIFY OWNER AND BARGHAUSEN CONSULTING ENGINEERS, INC., OF ANY VARIATION IN STATIC PRESSURE OVER 5 PSI GREATER/LESS THAN DESIGN PRESSURE.

D) INSTALLATION OF SLEEVING.

2. PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS AND/OR NOTES. PROVIDE A ONE (1) YEAR WARRANTY/GUARANTEE FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS IN MATERIALS, EQUIPMENT, AND WORKMANSHIP.

3. COORDINATE IRRIGATION INSTALLATION WITH GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE CONTRACTOR, OWNER, ARCHITECT, AND LANDSCAPE ARCHITECT.

4. LANDSCAPE CONTRACTOR TO TEST AVAILABLE WATER PRESSURE PRIOR TO BEGINNING ANY WORK. PROVIDE LANDSCAPE ARCHITECT WITH WRITTEN PSI RESULTS.

5. ALL WORK PER LOCAL CODE. INSTALLATION PER MANUFACTURER'S WRITTEN SPECIFICATIONS.

6. CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS, FEES, AND REQUIRED CITY INSPECTIONS.

7. SUBMITTALS:

A) SUBMIT EACH ITEM LISTED BELOW FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL,

B) PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED,

C) CONTROL WIRING PATH DIAGRAM,

D) "AS-BUILT" DRAWINGS,

E) OPERATION AND MAINTENANCE MANUALS.

8. PROVIDE AND KEEP UP TO DATE A COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH ARE TO BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS AND NOTES AND EXACT "AS-BUILT" LOCATIONS, SIZES AND KIND OF EQUIPMENT. THIS SET OF DRAWINGS, ARE TO BE KEPT ON SITE AND ARE TO BE USED ONLY AS THE RECORD SET. ALL WORK IS TO BE NEAT AND LEGIBLE ANNOTATIONS THEREON DAILY AS THE WORK PROCEEDS, SHOWING WORK AS ACTUALLY INSTALLED.

9. DIMENSION FORM TWO (2) PERMANENT POINTS OF REFERENCE, BUILDING CORNERS, WALKS, OR ROAD INTERSECTIONS, ETC., THE LOCATION OF THE FOLLOWING:

A) CONNECTION TO WATER LINES (P.O.C.),

B) CONNECTIONS TO ELECTRICAL POWER,

C) GATE VALVE, QUICK COUPLERS, AND REMOTE CONTROL VALVE,

D) ROUTING OF MAINLINE (DIMENSION MAXIMUM 100' ALONG ROUTING),

E) ROUTING OF CONTROL WIRING,

F) OTHER RELATED EQUIPMENT AS DIRECTED BY THE LANDSCAPE ARCHITECT.

10. PREPARE AND PROVIDE PRIOR TO COMPLETION OF CONSTRUCTION, A THREE RING BINDER CONTAINING THE FOLLOWING INFORMATION:

A) INDEX SHEET STATING CONTRACTOR'S ADDRESS, TELEPHONE NUMBER, FAX, E-MAIL AND A, LIST OF EQUIPMENT WITH NAME AND ADDRESS OF LOCAL MANUFACTURER'S REPRESENTATIVES,

B) CATALOG AND PARTS SHEETS ON EVERY MATERIAL AND EQUIPMENT INSTALLED UNDER THIS, CONTRACT,

C) GUARANTEE STATEMENT,

D) COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT,

E) CONSTRUCTION DETAILS FROM THE PROJECT,

F) COMPLETE TROUBLE-SHOOTING GUIDE TO COMMON IRRIGATION PROBLEMS,

G) WINTERIZATION AND SPRING START-UP PROCEDURES,

H) CHART OF APPROXIMATE WATERING TIMES FOR SPRING, SUMMER, AND FALL,

I) A COPY OF THE "AS-BUILT" DRAWINGS AND CONTROLLER CHART.

11. ALL VALVES TO BE PLACED IN "CARSON" GRADE LEVEL BOXES WITH BOLT-LOCK LIDS (OR APPROVED EQUIVALENT). SET BOXES 2 INCHES HIGHER THAN FINISH GRADE IN MULCH AREAS AND FLUSH WITH FINISH GRADE IN LAWN AREAS. JUMBO BOX FOR CHECK VALVE, 10" ROUND BOX FOR GATE/QUICK COUPLER/WIRE SPLICES, AND 12" STANDARD FOR CONTROL VALVES. PROVIDE BOX EXTENSIONS AS REQUIRED.

12. MAINLINE PIPE TO BE BURIED 18 INCHES, LATERALS 12 INCHES, AND SLEEVES 24" INCHES BELOW FINISH GRADE. NO ROCK OR DEBRIS TO BE BACKFILLED OVER PIPE.

13. HEAD AND LINE POSITIONING IS DIAGRAMMATIC ON PLAN. ADJUST IN FIELD AS NECESSARY FOR 100 PERCENT COVERAGE. VALVES TO BE POSITIONED ADJACENT TO PAVEMENT/CURBS, IN SHRUB BEDS WHERE POSSIBLE.

14. FAMILIARIZE OWNERS FACILITY OPERATOR WITH IRRIGATION SYSTEM FUNCTION, CONTROLLER PROGRAMMING, SYSTEM OPERATION AND MAINTENANCE REQUIREMENTS.

15. SPRINKLERS ON RISERS WILL NOT BE ALLOWED UNLESS NOTED ON PLANS.

16. RADIUS REDUCTION TO BE MADE BY USE OF PRESSURE ADJUSTMENT, SCREENS, AND/OR ALTERNATE NOZZLES. IN-NOZZLE ADJUSTMENT IS LIMITED TO 10 PERCENT FOR SPRAY HEADS AND PER MANUFACTURER'S LIMITS FOR OTHER SPRINKLERS. SPRINKLER SPACING NOT EXCEED 60% OF THE DIAMETER OF THE PUBLISHED DATA.

17. ALL CONTROL WIRE SPLICES TO BE MADE AT VALVE BOXES WITH WATER TIGHT ELECTRICAL SPLICES, 3M, SCOTT'S LOCK SEAL TACK 3576-78, OR EQUIVALENT.

18. EACH VALVE BOX TO CONTAIN A MINIMUM OF TWO (2) SPARE ORANGE CONTROL WIRES FOR JACKETED WIRE. ROUTE SPARE WIRES FROM THE CONTROLLER TO THE LAST VALVE OF EACH MAINLINE BRANCH. COMMON WIRE TO BE WHITE. SINGLE STRAND WIRE TO BE A MINIMUM OF 14 GAUGE.

19. ALL ELECTRICAL EQUIPMENT TO BE U.L. TESTED AND APPROVED, AND BEAR THE U.L. LABEL.

20. CROSS CONNECTION PROTECTION INSPECTION REQUIRED. THE BACKFLOW DEVICE TO BE TESTED UPON THE ORIGINAL INSTALLATION. THE TESTING TO BE PERFORMED BY A PERSON HOLDING A CURRENT CERTIFICATE AS A BACKFLOW TESTER. THE TEST REPORT TO BE SUBMITTED TO THE LOCAL WATER DISTRICT, OR PURVEYOR, AND OWNER WITH A COPY TO BARGHAUSEN CONSULTING ENGINEERS, INC. CONTRACTOR TO INCLUDE TESTING IN THE SCOPE OF WORK. OWNER IS RESPONSIBLE FOR ANNUAL INSPECTIONS AFTER THE INTIAL INSPECTION.

21. CONTRACTOR TO PROVIDE SYSTEM WINTERIZATION/SPRING SERVICE WHEN INSTALLATION HAS BEEN COMPLETED WITHIN 90 DAYS OF NOVEMBER 1 FOR WINTERIZATION, OR MAY 15 FOR SPRING SERVICE. SERVICE TO BE PERFORMED AS NEAR AS PRACTICAL

3

IRRIGATION NOTES AND DETAILS

CHICK-FIL-A BELLINGHAM

SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST

BELLINGHAM, WHATCOM COUNTY, WA

TRENCH CONDITION

SLEEVE CONDITION

18" TYPICAL

12" TYPICAL

6" OFFSET

6" MIN.

24" MIN.

18" TYPICAL

6" MIN.

24" MIN.

FINISH GRADE

PAVING SECTION PER CIVIL PLANS

COMPACT BACKFILL

AT 90% DENSITY (TOPSOIL BACKFILL)

AT 95% DENSITY (STRUCTURAL)

PVC LATERAL

SLEEVING

ALT. WIRE SLEEVE

PVC MAINLINE

VALVE WIRING

PIPE BED MATERIAL TO BE CLEAN AND FREE OF ROCK LARGER THAN 1/2"

SAND

NOTE:

SLEEVING MATERIAL SHALL BE PVC SCH. 40. DIMENSIONS ARE MIN. CLEARANCES.

ALL IRRIGATION SLEEVING TRENCH BACKFILL MATERIAL SHALL BE CLASS "B" OR BETTER (MAX. OF 10% PASSING NO.40 SCREEN) AND BE COMPACTED TO MIN. 95% OPTIMUM DENSITY PER ASTM D-1557-70 (MODIFIED PROCTOR)

SLEEVE/TRENCHING DETAIL

NOT TO SCALE

DOUBLE GRADE LEVEL BOXES SIZE TO PERMIT 12" MINIMUM CLEAR FROM WALLS TO TEST COCKS, BOLT LOCK LID

DOUBLE CHECK VALVE (STATE APPROVED ASSEMBLY) RESILANT SEATED VALVES WITH TEST COCKS, INSTALL ASSEMBLY WITH TEST COCKS IN HORIZONTAL POSITION, PER LOCAL REQUIREMENTS

PVC MAINLINE PER PLAN

SCH 80 NIPPLE AND FEMALE ADAPTER - TYPICAL

UNION AT EACH SIDE OF VALVE

SCH 80 PVC - TYPICAL

SCH 80 NIPPLE - TYPICAL

BLOCK AS NECESSARY WITH BRICKS AT BASE OF BOX

SUMP 1 C.F. 7/8" WASHED GRAVEL

NOTE: INSPECTION OF COMPLETED ASSEMBLY BY CERTIFIED TESTER REQUIRED.

CHECK VALVE ASSEMBLY DETAIL

NOT TO SCALE

THREADED BALL VALVE

SCH 80 PVC MALE ADAPTER

FINISH GRADE

6" MIN. 12" MAX.

PAVEMENT

SCH 80 PVC UNION SxS

SCH 80 PVC NIPPLE TxS

MAINLINE

THREE INCH (3") THICK LAYER OF PEA GRAVEL OR APPROVED EQUAL 3/8" WELDED WIRE MESH

BALL VALVE DETAIL

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. PVC DRIP MANIFOLD PIPE

2. WRAP VALVE BOX WITH A MINIMUM OF 3 MIL THICK PLASTIC AND SECURE IF USING DUCT TAPE OR ELECTRICAL TAPE.

3. ALL THREADED CONNECTIONS TO BE MADE USING TEFLON TAPE.

4. ALL CHANGES IN ELEVATION SHALL BE MADE USING SCH 40 PVC 45° ELBOWS.

BALL VALVE DETAIL

NOT TO SCALE

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12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

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4. VALVE ID TAG

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

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7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

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10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

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10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

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6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

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11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

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1. FINISH GRADE

2. STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD

3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES

4. VALVE ID TAG

5. 30-INCH LINEAR LENGTH OF WIRE, COILED

6. 1" X 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)

7. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)

8. LATERAL PIPE

9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER

10. REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)

11. PVC SCH 40 TEE OR ELL TO MANIFOLD

12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

13. MANIFOLD PIPE AND FITTINGS

14. MINIMUM FOUR (4) 4"x8" BRICKS

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE

1

2

3

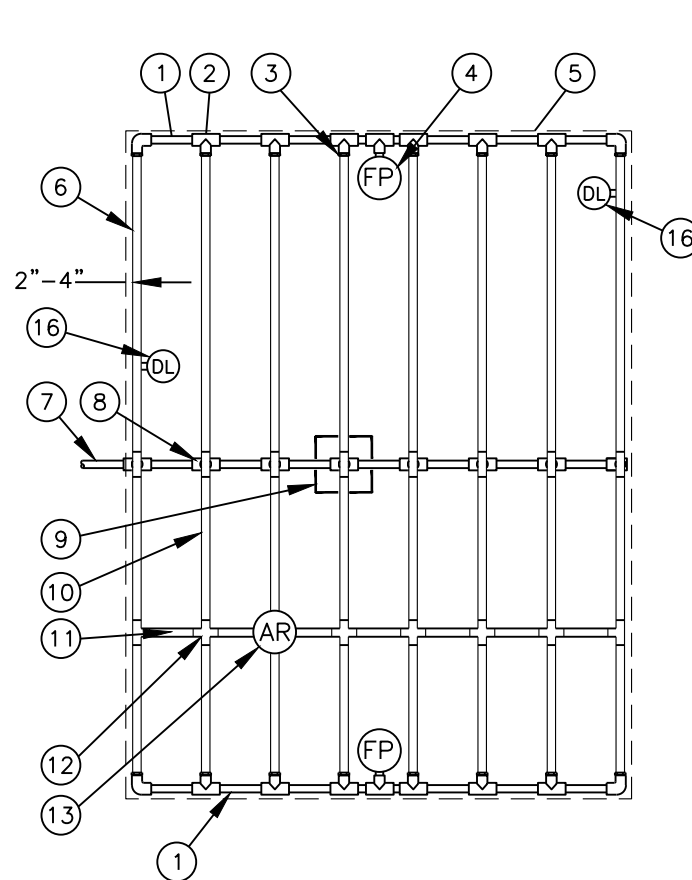
4

5

6

7

IRRIGATION DETAILS
CHICK-FIL-A BELLINGHAM
SECTION 13, TOWNSHIP. 38 NORTH, RANGE 2 EAST
BELLINGHAM, WHATCOM COUNTY, WA



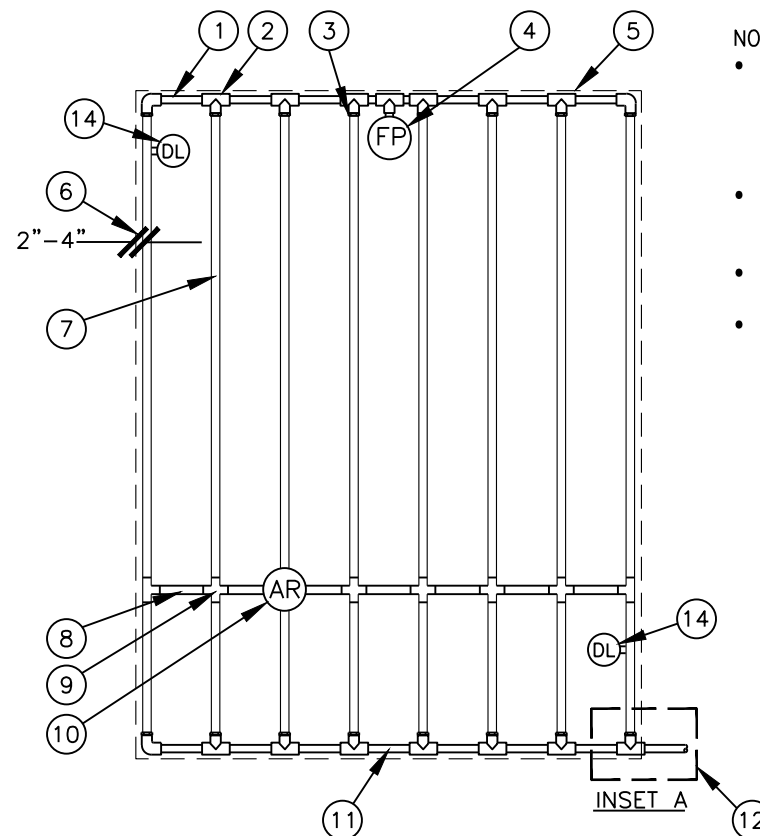
- 1 PVC EXHAUST HEADER
2 PVC SCH 40 TEE OR EL (TYPICAL)
3 BARB X MALE FITTING
4 FLUSH POINT (TYPICAL) SEE DETAIL
5 PERIMETER OF AREA
6 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
7 PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
8 PVC SUPPLY MANIFOLD
9 CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL)- SEE INSET A
- 10 SUB-SURFACE DRIPLINE
11 BLANK TUBING
12 BARB X BARB INSERT TEE OR CROSS
13 1/2" AIR RELIEF VALVE
14 BARB X FEMALE FITTING
15 3/4" PVC NIPPLE, LENGTH AS NECESSARY
16 DRIPLINE INDICATOR. SEE DETAIL FOR ADDITIONAL INFORMATION

Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	596	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

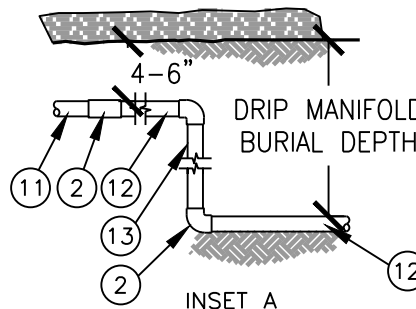
NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE IRRIGATION SCHEDULE FOR SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

DRIPLINE CENTER FEED LAYOUT

NOT TO SCALE



- NOTES:
• DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
• LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
• AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
• WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

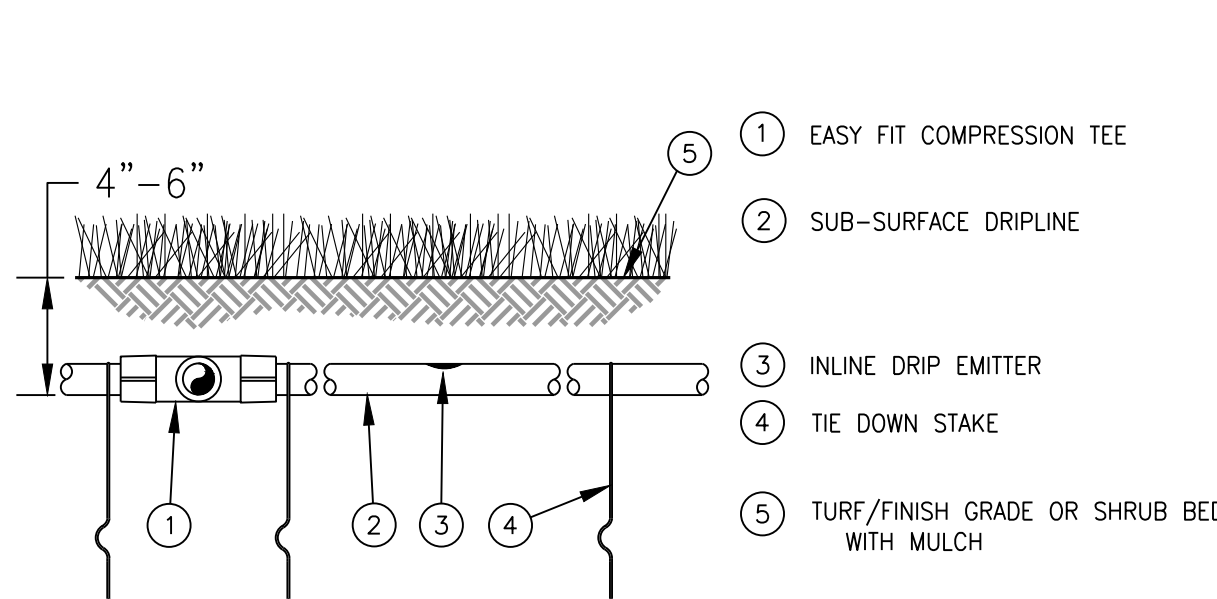


- 1 PVC EXHAUST HEADER
2 PVC SCH 40 TEE OR EL (TYPICAL)
3 BARB X MALE FITTING
4 FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL 'FLUSH POINT WITH BALL VALVE'
5 PERIMETER OF AREA
6 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
7 SUB-SURFACE DRIPLINE
8 BLANK TUBING
9 BARB X BARB INSERT TEE OR CROSS
10 1/2" AIR RELIEF VALVE
11 PVC SUPPLY HEADER
12 PVC DRIP MANIFOLD FROM CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
13 PVC SCH 40 RISER PIPE
14 DRIPLINE INDICATOR. SEE DETAIL FOR ADD'L INFO

Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	596	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

DRIPLINE END FEED LAYOUT

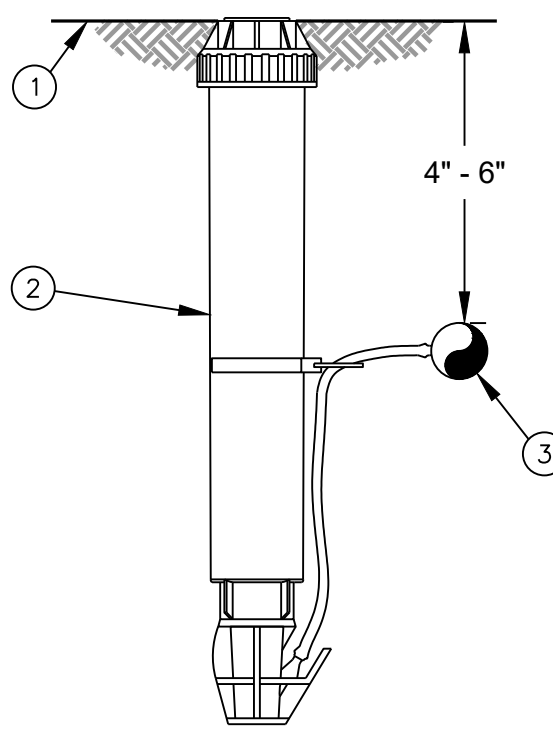
NOT TO SCALE



- NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. INSERTION FLOW AND TRENCHED INSTALLATIONS DO NOT REQUIRE TIE DOWN STAKES.

DRIPLINE BURIAL

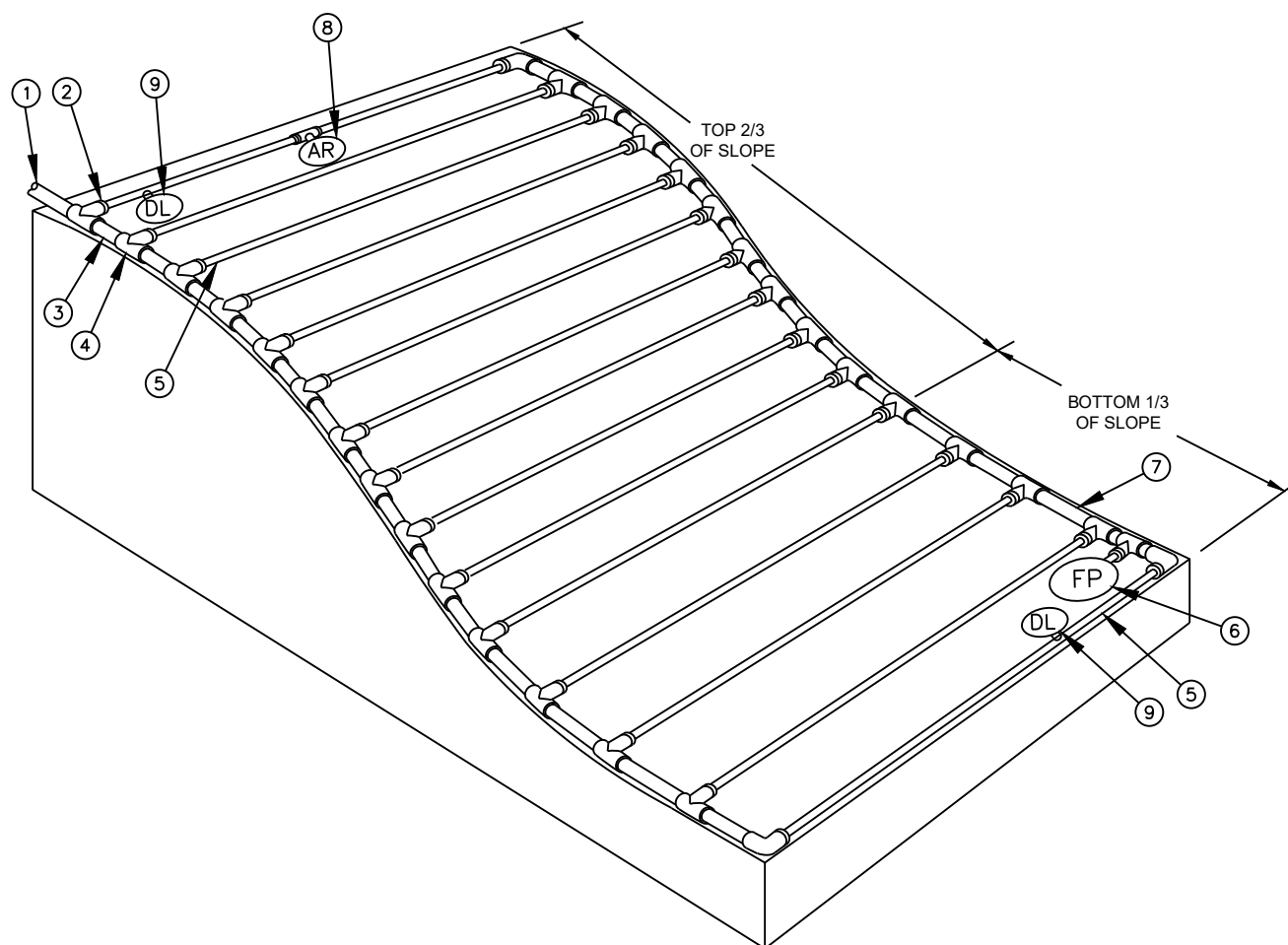
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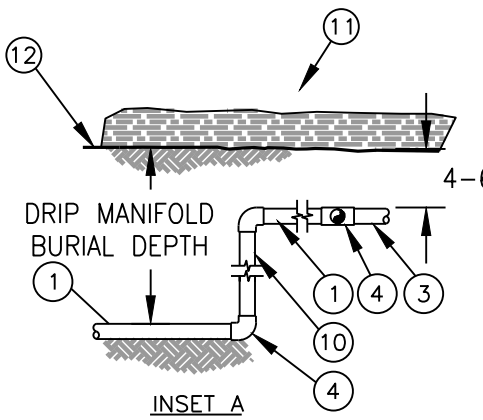
- NOTE:
1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO 1/2 PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

DRIP IRRIGATION DRIPLINE INDICATOR

NOT TO SCALE



- NOTES:
• DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. DISTANCE BETWEEN LATERAL ROWS FOR BOTTOM 1/3 OF SLOPE TO BE SPACED GREATER THAN OPTIMAL ROW DISTANCE. SEE MANUFACTURER DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.
• LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
• WHEN ELEVATION CHANGE EXCEEDS 8 FEET IT IS RECOMMENDED THAT A NEW DRIPLINE ZONE BE CREATED.
• INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIPLINE LATERAL.
• WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

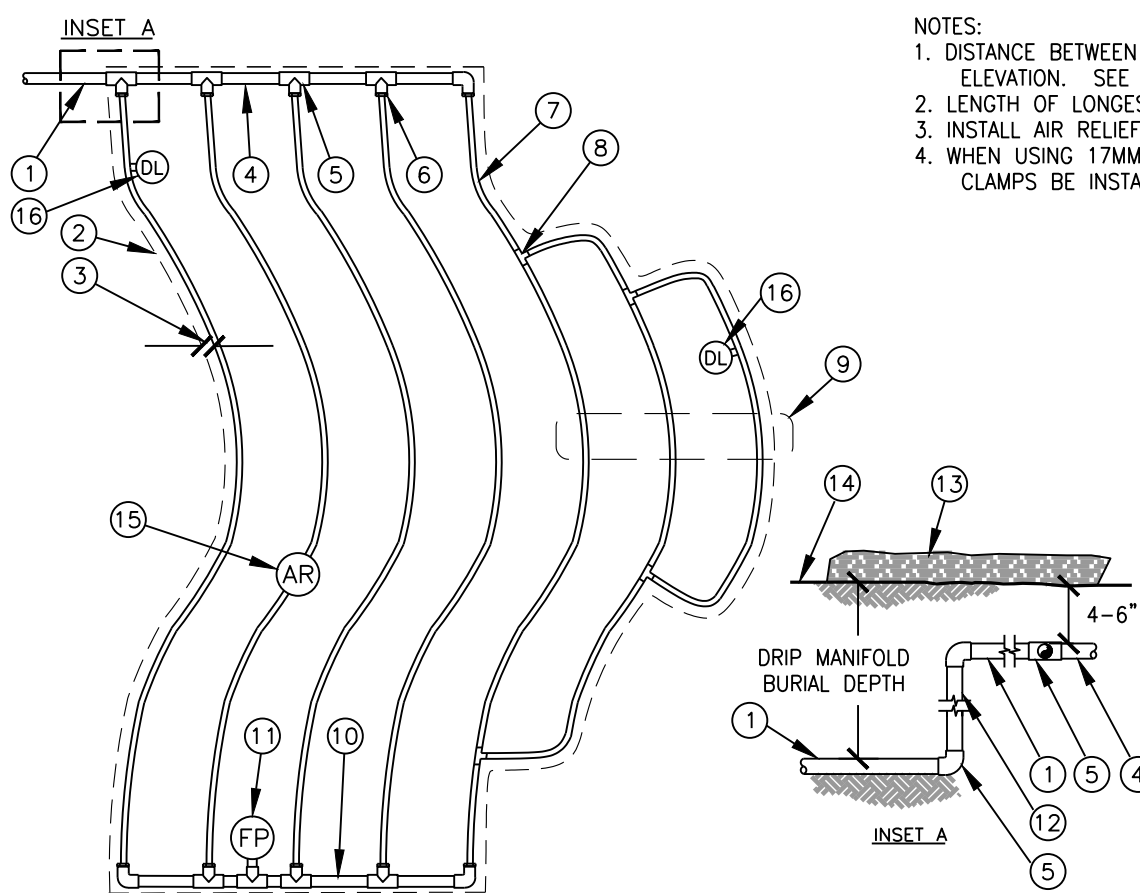


- 1 PVC DRIPLINE FROM CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
2 BARB X MALE FITTING
3 PVC SUPPLY HEADER
4 PVC SCH 40 TEE OR EL (TYPICAL)
5 SUB-SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
6 FLUSH POINT: SEE DETAIL
7 PVC FLUSH HEADER
8 1/2" AIR RELIEF VALVE: RSEE DETAIL
9 DRIPLINE INDICATOR. SEE DETAIL FOR ADDITIONAL INFORMATION

- 10 PVC RISER PIPE
11 TURF OR MULCH
12 FINISH GRADE

DRIPLINE SLOPED LAYOUT

NOT TO SCALE

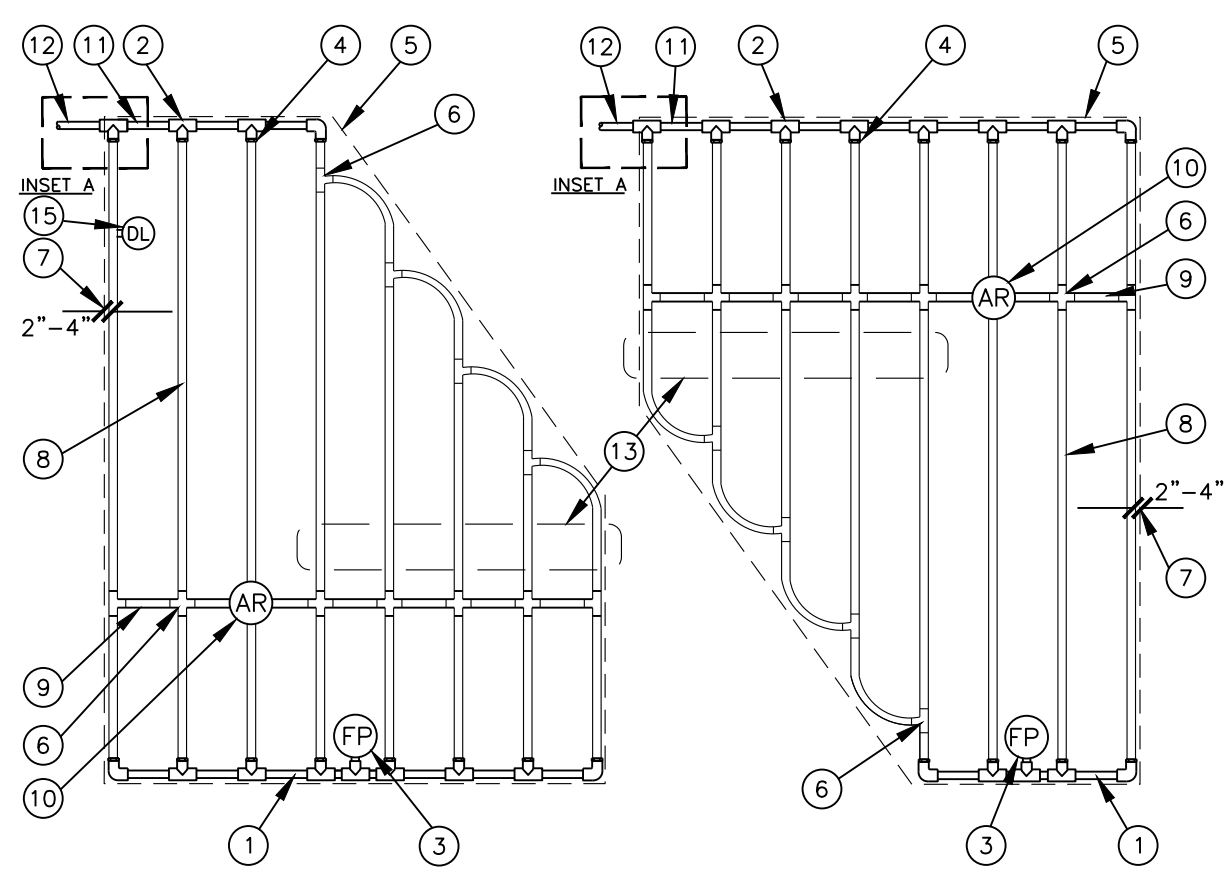


- NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS FOR SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIPLINE LATERAL.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

- 1 PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
2 PERIMETER OF AREA
3 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
4 PVC SUPPLY MANIFOLD
5 PVC SCH 40 TEE OR EL (TYPICAL)
6 BARB X MALE FITTING
7 SUB-SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
8 BARB X BARB INSERT TEE
9 TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
10 PVC FLUSH HEADER
11 FLUSH POINT: SEE DETAIL
12 PVC RISER PIPE
13 TURF OR MULCH
14 FINISH GRADE
15 1/2" AIR RELIEF VALVE: SEE DETAIL
16 DRIPLINE INDICATOR. SEE DETAIL FOR ADD'L INFO

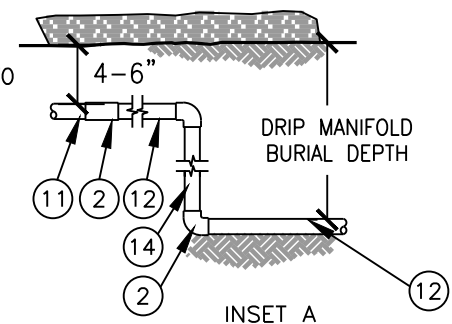
DRIPLINE ODD CURVES LAYOUT

NOT TO SCALE



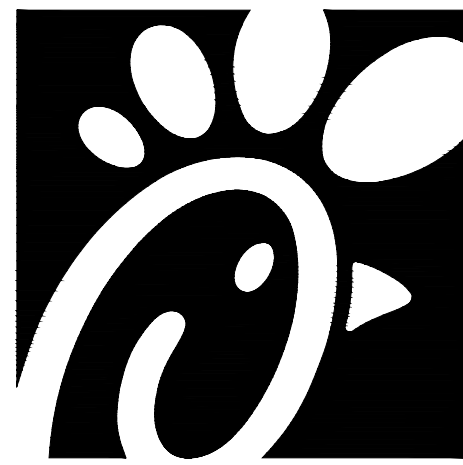
- 1 PVC EXHAUST HEADER
2 PVC SCH 40 TEE OR EL (TYPICAL)
3 FLUSH POINT (TYPICAL) SEE DETAIL
4 BARB X MALE FITTING
5 PERIMETER OF AREA
6 BARB X BARB INSERT TEE OR CROSS
7 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
8 SUB-SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
9 BLANK TUBING
10 1/2" AIR RELIEF VALVE: SEE DETAIL
11 PVC SUPPLY MANIFOLD
12 PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
13 TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
14 PVC SCH 40 RISER PIPE
15 DRIPLINE INDICATOR. SEE DETAIL FOR ADD'L INFO

- NOTES:
• DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE MANUFACTURER DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
• LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
• AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
• WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.



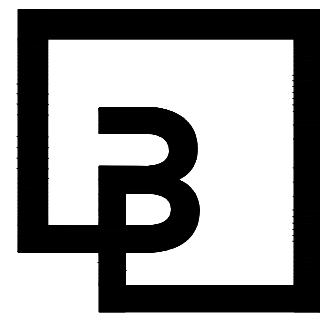
DRIPLINE IRREGULAR SHAPED LAYOUT

NOT TO SCALE



Chick-fil-A

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



Barghausen
Consulting Engineers, Inc.

18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



CHICK-FIL-A
CORDATA PARKWAY
& W. BAKERVIEW RD.
4030 CORDATA PARKWAY
BELLINGHAM, WA

FSR#05529

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 22779

PRINTED FOR

DATE 06/19/24

DRAWN BY TCR

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SHEET

IRRIGATION DETAILS

SHEET NUMBER

L7 OF 7



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