

**CLIENT INFORMATION**

GBC DESIGN, INC.  
565 WHITE POND DRIVE  
AKRON, OH 44320

**SITE ADDRESS**

690 NW BLUE PKWY.  
LEE'S SUMMIT, MO 64086

**PARKING COUNT**

REGULAR SPACES: 64  
HANDICAP SPACES: 3  
TOTAL SPACES: 67

**SITE UTILITIES**

CITY OF LEE'S SUMMIT  
(WATER, STORM, SEWER)  
22 SE GREEN STREET  
LEE'S SUMMIT, MO 64083  
816-969-1900

MISSOURI GAS ENERGY  
(NATURAL GAS)  
PO BOX 412662  
KANSAS CITY, MO 64141-2662  
816-756-5252

KANSAS CITY POWER & LIGHT  
(ELECTRICITY)  
888-471-5275

AT&T  
(TELEPHONE)  
800-464-7928

TIME WARNER  
(CABLE TV)  
816-358-8833

COMCAST  
(CABLE TV)  
816-833-3400

PLANNING AND DEVELOPMENT DEPARTMENT  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64083  
816-969-1600

**OWNER INFORMATION**

THE CHICK-FIL-A INC. PROPERTY  
PARCEL 51-700-04-20-00-0-00-000  
RECORDED IN DOC. 2012E0023733  
LOT 28 OF THE MINOR PLAT OF SUMMIT  
FAIR, LOTS 28, 29 AND 30, A SUBDIVISION  
LOCATED IN SECTION 36, TOWNSHIP 48  
NORTH, RANGE 32 WEST, AND RECORDED  
AS DOCUMENT 2010E0012640, CITY OF  
LEE'S SUMMIT, JACKSON COUNTY,  
MISSOURI

**LAND DESCRIPTION:**

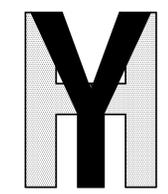
LOT 28, MINOR PLAT OF SUMMIT FAIR, LOTS 28, 29 AND 30, A SUBDIVISION IN THE  
CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE  
RECORDED PLAT THEREOF, RECORDED FEBRUARY 9, 2010, AS DOCUMENT NO.  
2010E0012640, IN PLAT BOOK 131 AT PAGE 66.

**BOUNDARY NOTE:**

THIS SURVEY IS A RETRACEMENT OF THE CHICK-FIL-A INC. PROPERTY  
(RECORDED IN DOC. 2012E0023733) ALTA/SURVEY CONDUCTED BY  
SHERRILL ASSOCIATES, INC. DATED FEBRUARY 27, 2012. EASEMENTS  
SHOWN HEREON ARE TAKEN FROM SAID ALTA/SURVEY.

A TITLE UPDATE CONDUCTED BY FIDELITY NATIONAL TITLE, WITH A DATE OF  
MAY 4, 2023, WAS PROVIDED TO THIS SURVEYOR. SAID TITLE UPDATE  
CONTAINED AN EASEMENT CONVEYANCE IN FAVOR OF KCP&L GREATER  
MISSOURI OPERATIONS COMPANY, RECORDED ON APRIL 18, 2012 IN  
INSTRUMENT NO. 2012E041514.

PRELIMINARY,  
NOT FOR  
RECORDING OR  
TRANSFER



**YOUNG - HOBBS  
AND  
ASSOCIATES**  
1202 CROSSLAND AVE.  
CLARKSVILLE, TN 37040  
PHONE 931-645-2524  
FAX 931-645-2768



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

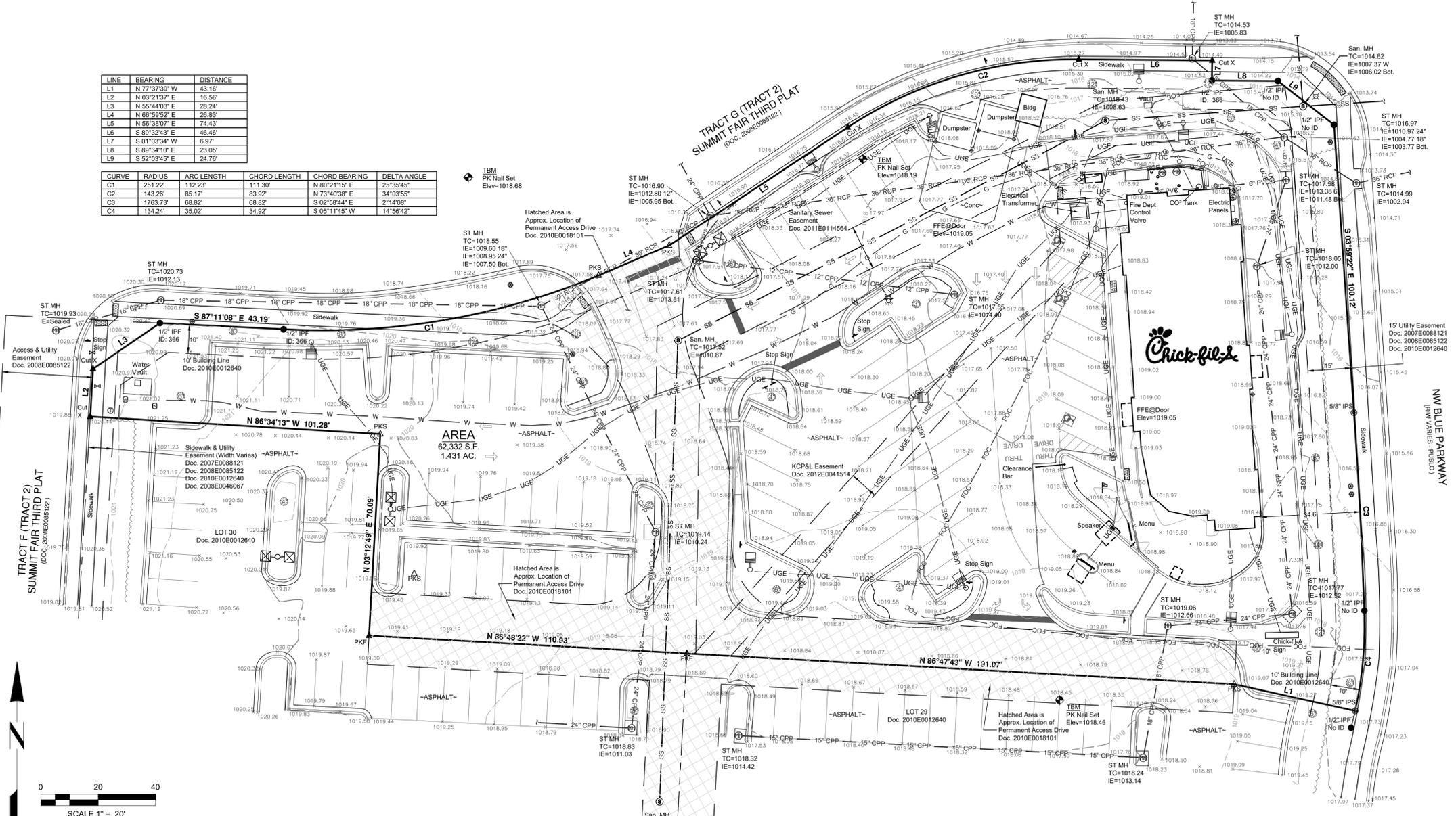
YHA PROJECT #	102-23
DATE (FIELD)	6 / 5/23
DATE (OFFICE)	6 / 12/23
CHECKED BY	DRH

**GBC DESIGN, INC.**  
565 White Pond Dr.  
Akron, OH 44320-1123  
Phone 330-836-0228

LINE	BEARING	DISTANCE
L1	N 77°37'39" W	43.16'
L2	N 03°21'37" E	16.56'
L3	N 55°44'03" E	28.24'
L4	N 66°59'52" E	26.83'
L5	N 56°38'07" E	74.43'
L6	S 89°32'43" E	46.46'
L7	S 01°03'34" W	6.97'
L8	S 89°34'10" E	23.05'
L9	S 52°03'45" E	24.76'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	251.22'	112.23'	111.30'	N 80°21'15" E	25°35'45"
C2	143.26'	85.17'	83.92'	N 73°40'38" E	34°03'56"
C3	1763.73'	68.82'	68.82'	S 02°58'44" E	2°14'08"
C4	134.24'	35.02'	34.92'	S 05°11'45" W	14°56'42"



**SURVEY NOTES:**

INFORMATION REGARDING THE PRESENCE, SIZE AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THIS INFORMATION HAS BEEN SHOWN BASED ON THE LOCATION ABOVE GROUND APPURTENANCES, AVAILABLE DESIGN PLANS, AND FLAGS AND PAINT PLACED BY THE UNDERGROUND PROTECTION SERVICE. NO CERTIFICATION IS MADE AS TO THE ACCURACY OR THOROUGHNESS OF THE INFORMATION CONCERNING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON. (MISSOURI ONE CALL 1-800-DIG-RITE). THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A PRIVATE UTILITY LOCATE.

CONTACT PROPER AUTHORITIES BEFORE BUILDING NEAR UTILITY LINES, FOR EASEMENT WIDTH AND RESTRICTIONS. UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.

UNLESS STATED OTHERWISE, ANY MONUMENT REFERRED TO HEREIN AS AN "IRON PIN SET" IS A SET 5/8" DIAMETER REBAR, WITH A YELLOW PLASTIC CAP STAMPED "YOUNG-HOBBS".

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

LIST OF ENCROACHMENTS: NONE

THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C0417G, WITH A MAP REVISED DATE OF JANUARY 20, 2017. IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

CONTOURS WERE DERIVED FROM RANDOM SHOTS AND CROSS SECTIONS AND ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS TOGETHER WITH AN OPUS SOLUTION, DATED 6/13/2023 (NAVD83.GEOID18).

I DO HEREBY STATE THAT THIS IS A TRUE, COMPLETE AND CORRECT SURVEY OF THE DESCRIBED REAL PROPERTY SITUATED IN THE COUNTY OF GREENE, MISSOURI AND THAT THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE CURRENT MISSOURI MINIMUM STANDARDS FOR PROPERTY SURVEYS (URBAN SURVEY 1:20,000)

**LEGEND**

- IRON PIN SET (IPS)
- IRON PIN FOUND, AS NOTED
- ⊕ BENCHMARK, AS NOTED
- ⊙ BOLLARD
- ⊙ SIGN, AS NOTED
- ⊙ SEWER CLEAN OUT
- ⊙ SEWER MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WATER VALVE
- ⊙ WATER METER
- ⊙ ELECTRIC VAULT
- ⊙ TRAFFIC POLE
- ⊙ ELECTRIC METER
- ⊙ OUTLET (ELECTRIC)
- ⊙ ROOF DRAIN
- ⊙ IRRIGATION VALVE
- ⊙ GAS METER
- ⊙ GATE POST
- ⊙ TELEPHONE BOX
- ⊙ STORM SEWER MANHOLE
- ⊙ PROPERTY LINE
- ⊙ EASEMENT LINE
- ⊙ SETBACK LINES
- ⊙ UNDERGROUND ELECTRIC
- ⊙ FENCE LINE
- ⊙ GAS LINE, AS NOTED
- ⊙ WATER LINE, AS NOTED
- ⊙ SANITARY SEWER, AS NOTED
- ⊙ UNDERGROUND FIBER OPTIC
- ⊙ STORM SEWER PIPE, AS NOTED
- ⊙ LANDSCAPE AREA
- ⊙ OVERHANG
- ⊙ LIGHT POLE
- ⊙ LIGHT POLE(2-WAY)

**CHICK-FIL-A**  
LEE'S SUMMIT, MO

690 NW BLUE PKWY.  
LEE'S SUMMIT, MO 64086

**FSU# 2859**

NO.	DATE	DESCRIPTION

GBC PROJECT #  
PRINTED FOR  
DATE 6 / 13/23  
DRAWN BY KAB/CLH

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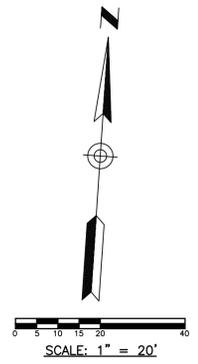
AS-BUILT  
SURVEY  
SHEET 1 OF 1  
SHEET NUMBER  
**C-010**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.

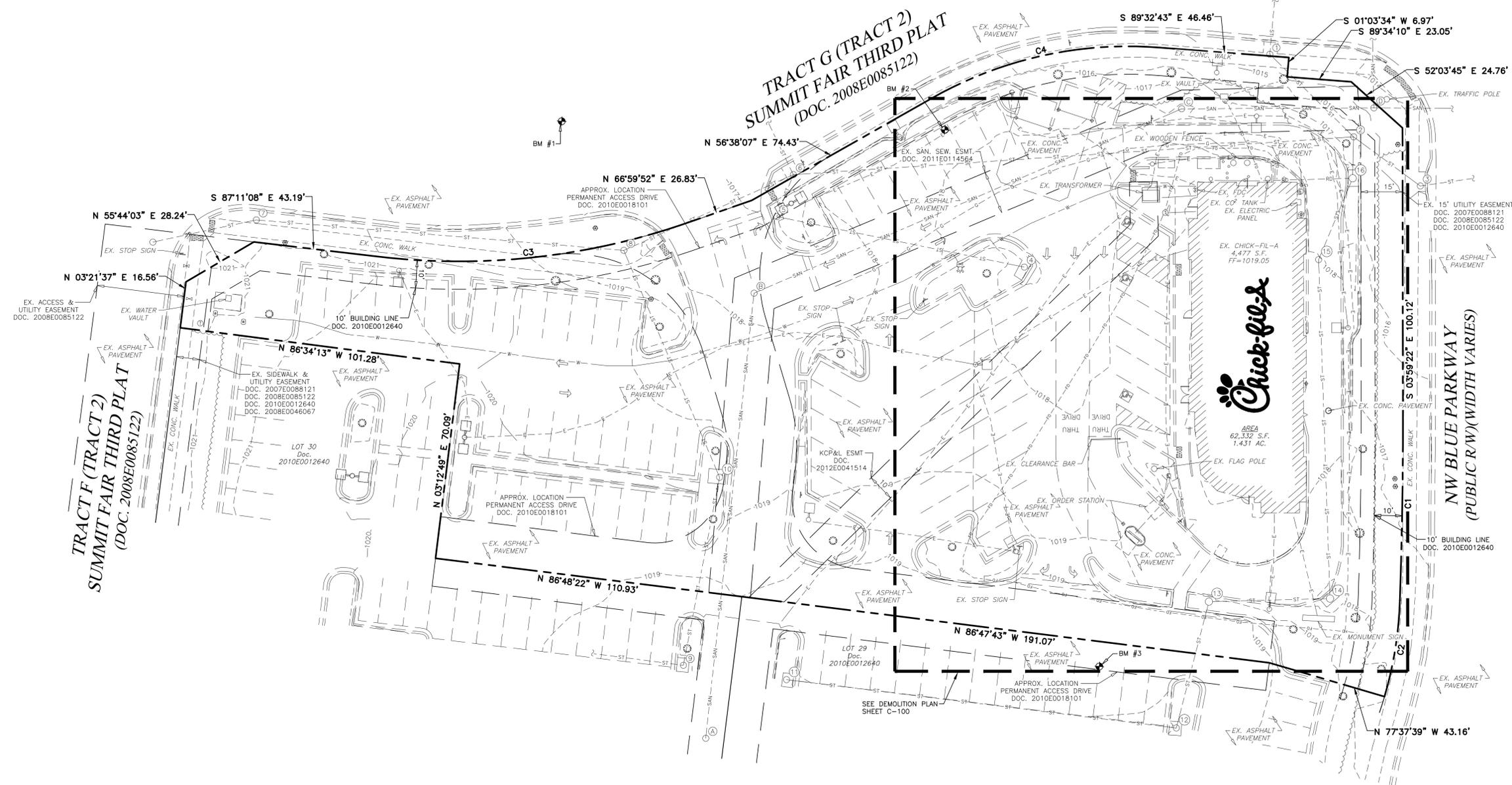
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**LEGEND**

	EX. FIRE HYDRANT
	EX. VALVE
	EX. MANHOLE
	EX. CATCH BASIN
	EX. BOX INLET
	EX. LIGHT POLE
	EX. DECORATIVE LAMP
	EX. POWER POLE
	EX. TREE
	EX. TELEPHONE LINE
	EX. ELECTRIC LINE
	EX. OVERHEAD WIRE
	EX. GAS LINE
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. WATER LINE
	EX. CURB



**TRACT G (TRACT 2)  
SUMMIT FAIR THIRD PLAT  
(DOC. 2008E0085122)**



**EXISTING STORM SEWER  
STRUCTURE SCHEDULE**

1. EX. CURB INLET M.H.  
TOP 1014.53  
INV. 1005.83, 18" N  
INV. 1005.83, 18" SE
2. EX. STM. M.H.  
TOP 1016.97  
INV. 1004.77, 18" NW  
INV. 1003.77, 36" SE  
INV. 1003.77, 36" W  
INV. 1010.97, 24" S
3. EX. CURB INLET M.H.  
TOP 1014.99  
INV. 1002.94, 36" NW  
INV. 1002.94, 36" E
4. EX. CATCH BASIN  
TOP 1017.55  
INV. 1014.40, 12" W
5. EX. CURB INLET M.H.  
TOP 1017.61  
INV. 1013.51, 12" E  
INV. 1013.51, 12" N
6. EX. CURB INLET M.H.  
TOP 1016.90  
INV. 1012.80, 12" S  
INV. 1005.95, 36" E  
INV. 1006.11, 24" NW  
INV. 1005.95, 30" SW
7. EX. STM. M.H.  
TOP 1020.73  
INV. 1012.13, 18" W  
INV. 1012.13, 18" E
8. EX. STM. M.H.  
TOP 1018.55  
INV. 1009.60, 18" W  
INV. 1007.50, 30" NE  
INV. 1008.95, 24" SE
9. EX. CURB INLET M.H.  
TOP 1018.83  
INV. 1011.03, 24" W  
INV. 1011.03, 24" N
10. EX. CURB INLET M.H.  
TOP 1019.14  
INV. 1010.24, 24" S  
INV. 1010.24, 24" NW
11. EX. CATCH BASIN  
TOP 1018.32  
INV. 1014.42, 15" E
12. EX. CURB INLET M.H.  
TOP 1018.24  
INV. 1013.14, 15" W  
INV. 1013.14, 18" N
13. EX. CURB INLET M.H.  
TOP 1019.06  
INV. 1012.66, 18" S  
INV. 1012.66, 24" E
14. EX. CURB INLET M.H.  
TOP 1017.77  
INV. 1012.32, 24" W  
INV. 1012.32, 24" N
15. EX. STM. M.H.  
TOP 1018.05  
INV. 1012.00, 24" S  
INV. 1012.00, 24" N
16. EX. CURB INLET M.H.  
TOP 1017.58  
INV. 1011.48, 24" S  
INV. 1011.48, 24" N  
INV. 1013.38, 6" W

**EXISTING SANITARY SEWER  
STRUCTURE SCHEDULE**

- A. EX. SAN. M.H.  
TOP 1018.95  
INV. 1012.30, 8" N
- B. EX. SAN. M.H.  
TOP 1017.52  
INV. 1010.87, 8" S  
INV. 1010.87, 8" NE
- C. EX. SAN. M.H.  
TOP 1018.43  
INV. 1008.63, 8" SW  
INV. 1008.63, 8" E
- D. EX. SAN. M.H.  
TOP 1014.62  
INV. 1007.37, 8" W  
INV. 1006.02, 8" E  
INV. 1006.02, 8" N



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

GBC DESIGN, INC.  
565 White Pond Dr.  
Akron, OH 44320-1123  
Phone 330-836-0228  
Fax 330-836-5782



**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

REVISION SCHEDULE	NO.	DATE	DESCRIPTION
GBC PROJECT #	43215A		
PRINTED FOR	Permit		
DATE	8/23/23		
DRAWN BY	BAW		

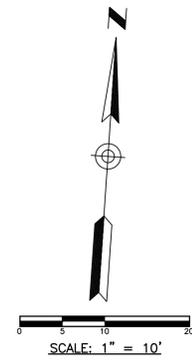
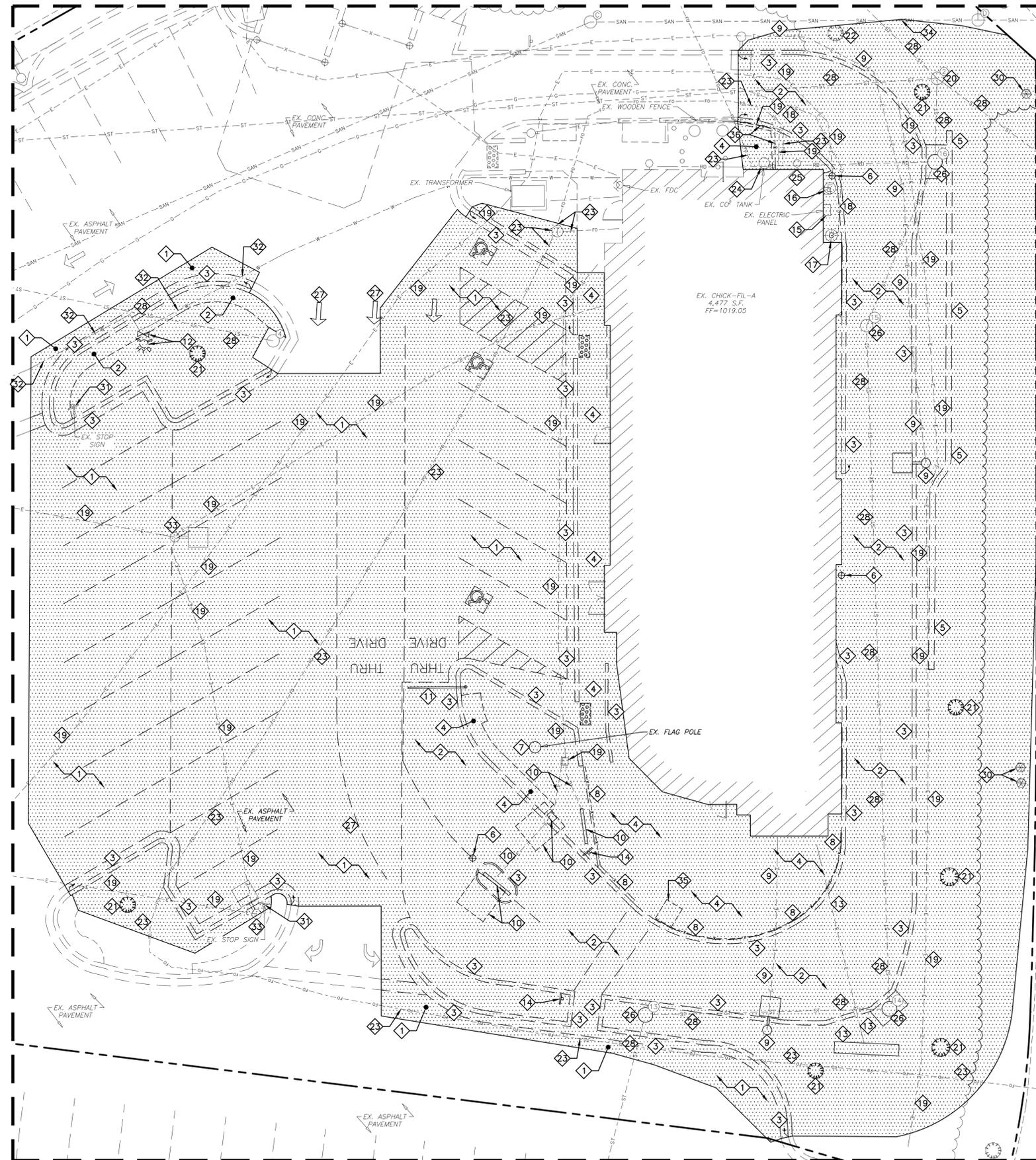
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SHEET  
**EXISTING  
CONDITIONS  
PLAN**

SHEET NUMBER  
**C-100**

**DEMOLITION NOTES**

- 1 EXISTING ASPHALT PAVEMENT TO BE SAWCUT FULL DEPTH AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 2 EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 3 EXISTING CONCRETE CURB TO BE SAWCUT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 4 EXISTING CONCRETE SIDEWALK TO BE SAWCUT AT NEAREST JOINT AND REMOVED AS NEEDED FOR NEW CONSTRUCTION
- 5 EXISTING WALL TO BE REMOVED
- 6 EXISTING BOLLARD TO BE REMOVED
- 7 EXISTING FLAG POLE TO BE REMOVED
- 8 EXISTING RAILING TO BE REMOVED
- 9 EXISTING LIGHT POLE & ASSOCIATED UTILITIES TO BE RELOCATED
- 10 EXISTING ORDER STATION & ASSOCIATED UTILITIES TO BE REMOVED
- 11 EXISTING CLEARANCE BAR TO BE REMOVED
- 12 EXISTING HYDRANT ASSEMBLY TO BE RELOCATED
- 13 EXISTING MONUMENT SIGN & ASSOCIATED UTILITIES TO BE RELOCATED
- 14 EXISTING SIGN TO BE REMOVED
- 15 EXISTING UTILITY PANEL TO REMAIN
- 16 EXISTING ELECTRIC METER TO REMAIN
- 17 EXISTING GAS METER TO REMAIN
- 18 EXISTING GAS SERVICE TO REMAIN
- 19 EXISTING ELECTRIC TO REMAIN
- 20 EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO ADJUST TO PROPOSED CONDITIONS SHOWN ON SHEETS C-300, C-301, AND C-302
- 21 EXISTING TREE TO BE REMOVED
- 22 EXISTING TREE TO REMAIN
- 23 EXISTING COMMUNICATIONS TO REMAIN
- 24 EXISTING CO2 TANK TO REMAIN
- 25 EXISTING DOWNSPOUT TO REMAIN
- 26 EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO MODIFY CURB INLET TO CATCH BASIN FRAME & GRATE AND ADJUSTED TO PROPOSED CONDITIONS SHOWN ON SHEETS C-300, C-301, AND C-302
- 27 EXISTING PAINT STRIPING TO BE BLACKED OUT AS NEEDED FOR NEW LAYOUT
- 28 EXISTING STORM SEWER TO REMAIN
- 29 EXISTING STORM STRUCTURE TO REMAIN. CONTRACTOR TO REPLACE SOLID MANHOLE COVER WITH HEAVY DUTY OPEN GRATE COVER.
- 30 EXISTING IRRIGATION TO REMAIN
- 31 EXISTING SIGN TO REMAIN
- 32 EXISTING WATER LINE TO REMAIN
- 33 EXISTING LIGHT POLE TO REMAIN
- 34 EXISTING SANITARY SEWER TO REMAIN
- 35 EXISTING CASH STATION TO BE REMOVED
- 36 EXISTING WOODEN FENCING TO BE REMOVED AND REPLACED



**LEGEND**

- EX. FIRE HYDRANT
  - EX. VALVE
  - EX. MANHOLE
  - EX. CATCH BASIN
  - EX. BOX INLET
  - EX. LIGHT POLE
  - EX. DECORATIVE LAMP
  - EX. POWER POLE
  - EX. TREE
  - EX. TELEPHONE LINE
  - EX. ELECTRIC LINE
  - EX. OVERHEAD WIRE
  - EX. GAS LINE
  - EX. SANITARY SEWER
  - EX. STORM SEWER
  - EX. WATER LINE
  - EX. CURB
  - EX. UNKNOWN UTILITY
- AREA OF DEMOLITION INCLUDING PAVEMENT REMOVAL, BUILDINGS, CONCRETE, SIGNS, LIGHT POLES, UTILITY SERVICES, FENCES, TREES, ETC.
- LIMITS OF DISTURBANCE = 0.50 AC.



**Chick-fil-A**

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

**GBC DESIGN, INC.**  
565 White Pond Dr. Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782



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**FSU# 02859**

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	

GBC PROJECT #	43215A
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CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.

Permit  
SHEET  
**DEMOLITION PLAN**  
SHEET NUMBER  
**C-110**



Chick-fil-A

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

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Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782



CHICK-FIL-A  
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690 NW BLUE PARKWAY  
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FSU# 02859

REVISION SCHEDULE  
NO. DATE DESCRIPTION

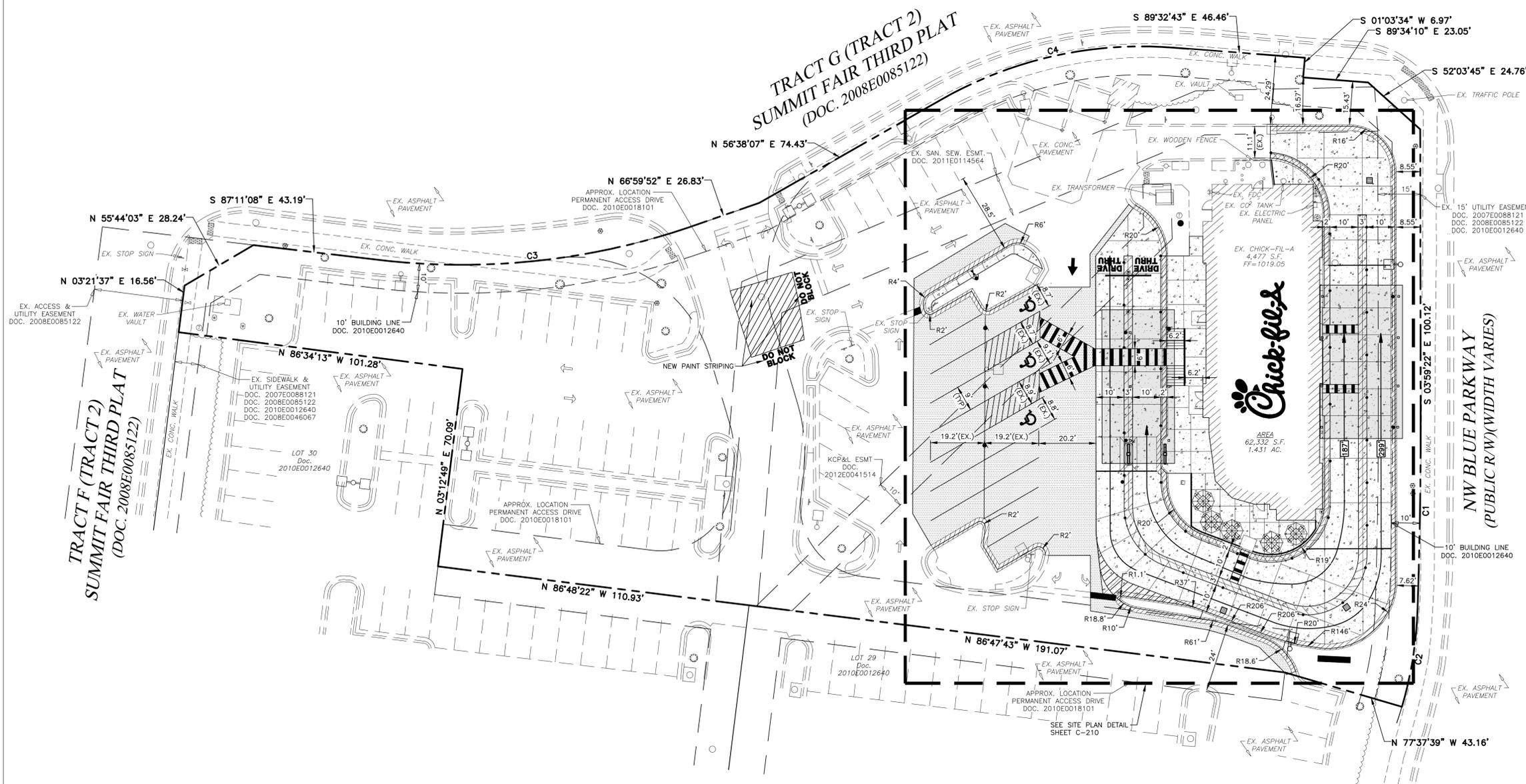
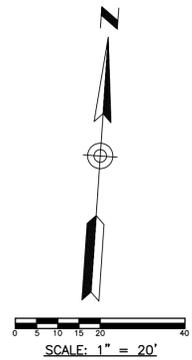
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SHEET SITE PLAN

Permit SHEET NUMBER

C-200



- LEGEND**
- PROP. FIRE HYDRANT
  - △ EX. FIRE HYDRANT
  - PROP. VALVE
  - ⊕ EX. VALVE
  - PROP. MANHOLE
  - ⊕ EX. MANHOLE
  - PROP. INLET
  - ⊕ EX. BOX INLET
  - PROP. LIGHT POLE
  - ⊕ EX. LIGHT POLE
  - PROP. ACCESSIBLE RAMP - RAMP IS NOT TO BE SCORED OR GROOVED
  - ▬ EX. CURB
  - ▬ PROP. CURB & GUTTER
  - ▬ PROP. ASPHALT PAVEMENT
  - ▬ PROP. CONCRETE PAVEMENT/WALK

TOTAL PARCEL SIZE: 1.4310 AC.

REQUIRED SETBACKS	BUILDING	LANDSCAPE
FRONT (OLIVE GARDEN)	15'	0'
LEFT SIDE (ENTRANCE DRIVE)	10'	0'
RIGHT SIDE (NW BLUE PARKWAY)	15'	20'
REAR (NW SOUTHERN XING)	20'	20'

**PARKING SUMMARY:**

REQUIREMENT: 1 SPACE PER 3 SEATS

TOTAL PARKING SPACES REQUIRED (PROPOSED CONDITIONS):  
92 SEATS / 3 x 1 SPACE = 30.7  
= 31 SPACES

EXISTING PARKING SPACES PROVIDED:  
REGULAR SPACES = 64  
ACCESSIBLE SPACES = 3  
TOTAL = 67

PROPOSED PARKING SPACES PROVIDED:  
REGULAR SPACES = 56  
ACCESSIBLE SPACES = 3  
TOTAL = 59

**EXISTING AREA TABULATION**

IMPERVIOUS AREA	
BUILDINGS	= 4,477 S.F.
ASPHALT PAVEMENT	= 31,020 S.F.
CONCRETE PAVEMENT	= 13,840 S.F.
SUBTOTAL	= 49,337 S.F. (79.15%)
PERVIOUS AREA	
LANDSCAPE/PLANTING	= 12,995 S.F. (20.85%)
TOTAL AREA	= 62,332 S.F. (1.43 AC.)

**NEW DEVELOPMENT AREA TABULATION**

IMPERVIOUS AREA	
BUILDINGS	= 4,477 S.F.
ASPHALT PAVEMENT	= 28,671 S.F.
CONCRETE PAVEMENT	= 19,215 S.F.
SUBTOTAL	= 52,363 S.F. (84.01%)
PERVIOUS AREA	
LANDSCAPE/PLANTING	= 9,969 S.F. (15.99%)
TOTAL AREA	= 62,332 S.F. (1.43 AC.)

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD LENGTH	CHORD BEARING
C1	68.82'	1763.73'	2°14'08"	34.41'	68.82'	S 02°58'44" E
C2	35.02'	134.24'	14°56'42"	17.61'	34.92'	S 05°11'45" W
C3	112.23'	251.22'	25°35'45"	57.07'	111.30'	N 80°21'15" E
C4	85.17'	143.26'	34°03'55"	43.89'	83.92'	N 73°40'38" E

FLOOD ZONE DESIGNATION: THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C0417C, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

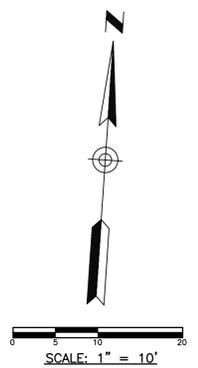
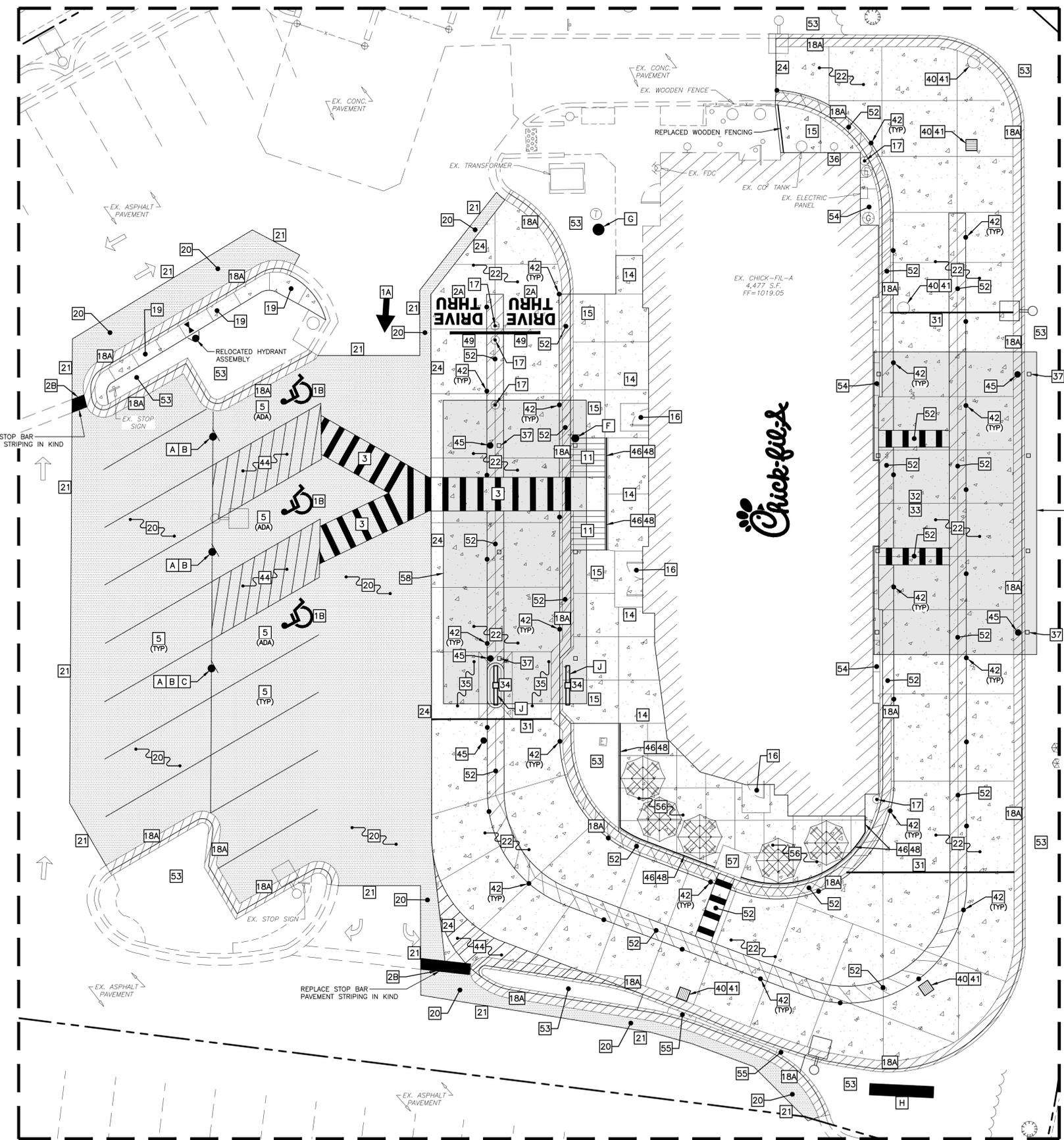
CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.

NOTE: FOR CONCRETE PAVEMENT CONSTRUCTION - SEE JOINTING DETAILS 9, 10, 11, & 12 ON SHEET C-402

SITE PLAN DESIGN NOTES & KEY SHEET

- |     |  |                 |
|-----|--|-----------------|
| 1A  | PAINTED DIRECTIONAL ARROW  | DETAIL 1A/C-400 |
| 1B  | PAINTED ACCESSIBILITY PARKING SYMBOL                                   | DETAIL 1B/C-400 |
| 2A  | PAINTED DRIVE-THRU GRAPHIC   | DETAIL 2A/C-400 |
| 2B  | PAINTED STOP BAR GRAPHIC   | DETAIL 2B/C-400 |
| 3   | CROSSWALK MARKING  | DETAIL 3/C-400  |
| 4   | MULTI-LANE DIRECTIONAL GRAPHICS  | DETAIL 4/C-400  |
| 5   | STANDARD OR ACCESSIBLE PARKING STALL PER CODE                          | DETAIL 5/C-400  |
| 6   | SOLID PLASTIC WHEEL STOP   | DETAIL 6/C-400  |
| 7   | BOLLARD MOUNTED SIGN   | DETAIL 7/C-400  |
| 8   | CURB RAMP W/ SHORT FLARED SIDES (GRASSED AREAS)                        | DETAIL 8/C-400  |
| 9   | CURB RAMP W/ FLARED SIDES (IN SIDEWALK)                                | DETAIL 9/C-400  |
| 10  | RETURNED CURB ACCESSIBLE RAMP  | DETAIL 10/C-400 |
| 11  | SIDEWALK ACCESSIBLE RAMP   | DETAIL 11/C-401 |
| 12  | DETECTABLE WARNING DEVICE  | DETAIL 2/C-401  |
| 13  | TYPICAL ADA RAMP & HANDRAIL  | DETAIL 3/C-401  |
| 14  | CONCRETE SIDEWALK  | DETAIL 4/C-401  |
| 15  | CONCRETE SIDEWALK W/ CURB & GUTTER                                     | DETAIL 5/C-401  |
| 16  | ENTRY DOOR FROST SLAB DETAIL   | DETAIL 6/C-401  |
| 17  | CONCRETE BOLLARD   | DETAIL 7/C-401  |
| 18  | CONCRETE CURB & GUTTER   | DETAIL 8/C-401  |
| 18A | SPILLING CURB & GUTTER   |                 |
| 18B | CATCHING CURB & GUTTER   |                 |
| 18C | DEPRESSED SPILLING CURB & GUTTER                                       |                 |
| 18D | DEPRESSED CATCHING CURB & GUTTER                                       |                 |
| 18E | SPILLING GUTTER SECTION AT ACCESSIBLE RAMP                             |                 |
| 18F | CATCHING GUTTER SECTION AT ACCESSIBLE RAMP                             |                 |
| 18G | MOUNTABLE CURB & GUTTER  |                 |
| 19  | LANDSCAPE & IRRIGATION PROTECTOR                                       | DETAIL 9/C-401  |
| 20  | TYPICAL HMAC PAVEMENT SECTION  | DETAIL 1/C-402  |
| 21  | BUTT JOINT   | DETAIL 2/C-402  |
| 22  | CONCRETE PAVEMENT DRIVE-THRU LANE                                      | DETAIL 3/C-402  |
| 23  | CONCRETE APRON AT TRASH ENCLOSURE                                      | DETAIL 4/C-402  |
| 24  | PAVEMENT EDGE DETAIL (START AND END OF DRIVE-THRU LANES)               | DETAIL 5/C-402  |
| 25  | CONCRETE PAVEMENT SECTIONS   | DETAIL 6/C-402  |
| 26  | TRANSVERSE & LONGITUDINAL CONTRACTION JOINT                            | DETAIL 7/C-402  |
| 27  | TRANSVERSE & LONGITUDINAL DOWELED CONSTRUCTION JOINT                   | DETAIL 8/C-402  |
| 28  | CONTRACTION JOINT  | DETAIL 9/C-402  |
| 29  | KEYED CONSTRUCTION JOINT   | DETAIL 10/C-402 |
| 30  | LONGITUDINAL BUTT JOINT  | DETAIL 11/C-402 |
| 31  | EXPANSION JOINT  | DETAIL 12/C-402 |
| 32  | DRIVE-THRU PLAN - FLUSH WITH FFE                                       | DETAIL 1/C-403  |
| 33  | DRIVE-THRU ISOMETRIC   | DETAIL 2/C-403  |
| 34  | DRIVE-THRU ORDER POINT ISLAND  | DETAIL 3/C-403  |
| 35  | MENU BOARD LOOP DETECTION SYSTEM                                       | DETAIL 4/C-403  |
| 36  | BUILDING DOWNSPOUT CONNECTION (TO SITE DRAINAGE SYSTEM)                | DETAIL 5/C-403  |
| 37  | CANOPY DOWNSPOUT CONNECTION (TO SITE DRAINAGE SYSTEM)                  | DETAIL 6/C-403  |
| 38  | SCREENED REFUSE ENCLOSURE (REFER TO ARCH PLANS FOR ADDITIONAL DETAILS) | DETAIL 7/C-403  |
| 39  | CLEAN-OUT (OUTSIDE OF BUILDING)  | DETAIL 8/C-403  |
| 40  | THICKENED PAVEMENT @ STRUCTURES  | DETAIL 9/C-403  |
| 41  | STORM STRUCTURE WEEP HOLE DETAILS                                      | DETAIL 10/C-403 |
| 42  | YELLOW SAFETY POST   | DETAIL 1/C-404  |
| 43  | BIKE RACK  | DETAIL 2/C-404  |
| 44  | PAVEMENT STRIPING AREA   | DETAIL 3/C-404  |
| 45  | STORM SEWER CLEANOUT   | DETAIL 4/C-404  |
| 46  | THICKENED SLAB EDGE AT RAILING CORE-DRILLS                             | DETAIL 5/C-404  |
| 47  | CONCRETE FLUME   | DETAIL 6/C-404  |
| 48  | ALUMINUM HANDRAIL (REFER TO ARCH PLANS)                                |                 |
| 49  | DRIVE-THRU CLEARANCE BAR (REFER TO SIGNAGE PACKAGE)                    |                 |
| 50  | GREASE TRAP  |                 |
| 51  | PROPOSED TRANSFORMER   |                 |
| 52  | STRIPING PER CHICK-FIL-A DUAL FLEX LANE REQUIREMENTS                   |                 |
| 53  | LANDSCAPED AREA  |                 |
| 54  | 4" THICK CONCRETE STRIP BETWEEN BUILDING & BACK OF CURB                |                 |
| 55  | 4" THICK CONCRETE STRIP BETWEEN CURBS                                  |                 |
| 56  | TYPICAL LOCATION FOR OUTDOOR TABLES (REFER TO ARCH PLANS)              |                 |
| 57  | CONCRETE PAD FOR OPTIONAL CASH STATION                                 |                 |
| 58  | FREE-STANDING ORDER POINT CANOPY                                       |                 |
| 59  | FREE-STANDING OUTSIDE MEAL DELIVERY CANOPY                             |                 |

- SIGN LEGEND**
- \*\* CONTRACTOR TO REFER TO THE SIGNAGE PACKAGE FOR PLACEMENT AND SPECIFICATIONS OF ALL SIGNS \*\*
- |   |  |  |
|---|--|--|
| A | ACCESSIBLE PARKING SIGN (SEE SIGNAGE PACKAGE) R7-8; 12"x18" (TYP.) |  |
| B | ACCESSIBLE PARKING FINE SIGN (SEE SIGNAGE PACKAGE) 6"x12" (TYP.)   |  |
| C | "VAN ACCESSIBLE" SIGN (SEE SIGNAGE PACKAGE) R7-8P; 6"x12" (TYP.)   |  |
| D | "DO NOT ENTER" SIGN (SEE SIGNAGE PACKAGE) R5-1; 24"x24" (TYP.)     |  |
| E | STOP SIGN (SEE SIGNAGE PACKAGE) R1-1; 30"x30" (TYP.)               |  |
| F | CFA PEDESTRIAN CROSSING SIGN (SEE SIGNAGE PACKAGE)                 |  |
| G | RELOCATED FLAG POLE  |  |
| H | RELOCATED CFA MONUMENT SIGN  |  |
| J | DIGITAL DRIVE-THRU MENU BOARDS                                     |  |



- LEGEND**
- |  |   |
|--|---|
|  | PROP. FIRE HYDRANT  |
|  | EX. FIRE HYDRANT  |
|  | PROP. VALVE   |
|  | EX. VALVE   |
|  | PROP. MANHOLE   |
|  | EX. MANHOLE   |
|  | PROP. INLET   |
|  | EX. BOX INLET   |
|  | EX. LIGHT POLE  |
|  | PROP. LIGHT POLE  |
|  | PROP. ACCESSIBLE RAMP - RAMP IS NOT TO BE SCORED OR GROOVED |
|  | EX. CURB  |
|  | PROP. CURB & GUTTER   |
|  | PROP. ASPHALT PAVEMENT                                      |
|  | PROP. CONCRETE PAVEMENT/WALK                                |



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690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

FSU# 02859

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	

GBC PROJECT # 43215A  
PRINTED FOR Permit  
DATE 8/23/23  
DRAWN BY BAW  
SHEET NUMBER C-210

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.

Permit

SITE PLAN  
DETAIL

C-210

**GRADING & UTILITY NOTES**

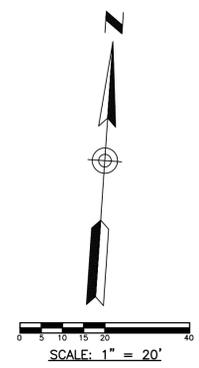
- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. ALL PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION 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 COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- DEFINE AND LOCATE VERTICALLY AND HORIZONTALLY ALL ACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.

- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME.
- WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
- ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER OR OWNER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT.
- ALL FILL, COMPACTION, AND BACKFILL MATERIALS PROVIDED FOR UTILITY INSTALLATION SHALL BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.

- THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT 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 "MEANS 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.
- PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MINIMUM SLOPE ALONG ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
- IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS.
- CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.
- CONDITION OF EXISTING UNDERGROUND STORAGE TO BE DETERMINED PRIOR TO START OF CONSTRUCTION. AS DETERMINED BY INSPECTION OF EXISTING SYSTEM CLEANING MAY BE REQUIRED PRIOR TO START OF CONSTRUCTION. REPORT CONDITION TO PROJECT ENGINEER IN ADDITION TO MODIFICATION TO OUTLET PIPE OTHER ADJUSTMENTS TO SYSTEM MAY BE REQUIRED BASED ON CONDITION OF SYSTEM.

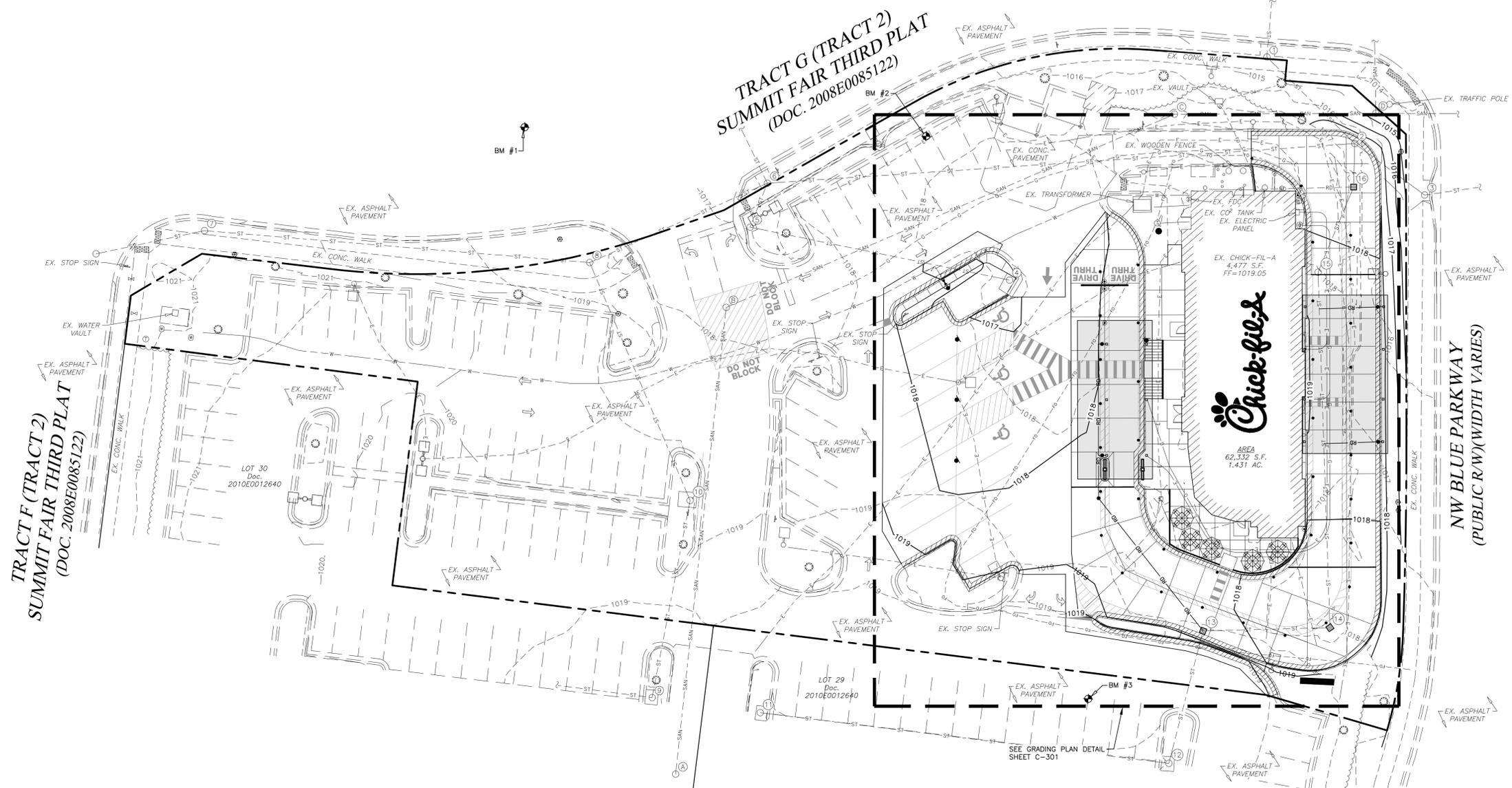
**LEGEND**

- ▲ PROP. FDC
- △ EX. FIRE HYDRANT
- PROP. VALVE
- EX. VALVE
- PROP. MANHOLE
- EX. MANHOLE
- PROP. INLET
- EX. INLET
- EX. GRADE
- PROP. TOP OF CURB ELEV.
- PROP. BOTTOM OF CURB ELEV.
- PROP. FINISHED ELEVATION
- PROP. TOP OF WALL ELEV.
- PROP. BOTTOM OF WALL ELEV.
- POSITIVE DRAINAGE
- EX. STORM SEWER
- PROP. STORM SEWER
- EX. CURB
- PROP. CURB & GUTTER
- PROP. CONTOURS
- EX. CONTOURS
- MEET EXISTING ELEVATION



**EXISTING STORM SEWER STRUCTURE SCHEDULE**

- EX. CURB INLET M.H.  
TOP 1014.53  
INV. 1005.83, 18" N  
INV. 1005.83, 18" SE
- EX. STM. M.H.  
TOP 1016.97 (EX.)  
TOP 1017.00 (PROP.)  
INV. 1004.77, 18" NW  
INV. 1003.77, 36" SE  
INV. 1003.77, 36" W  
INV. 1010.97, 24" S
- EX. CURB INLET M.H.  
TOP 1014.99  
INV. 1002.94, 36" NW  
INV. 1002.94, 36" E
- EX. CATCH BASIN  
TOP 1017.55  
INV. 1014.40, 12" W
- EX. CURB INLET M.H.  
TOP 1017.61  
INV. 1013.51, 12" E  
INV. 1013.51, 12" N
- EX. CURB INLET M.H.  
TOP 1016.90  
INV. 1012.80, 12" S  
INV. 1005.95, 36" E  
INV. 1006.11, 24" NW  
INV. 1005.95, 30" SW
- EX. STM. M.H.  
TOP 1020.73  
INV. 1012.13, 18" W  
INV. 1012.13, 18" E
- EX. STM. M.H.  
TOP 1018.55  
INV. 1009.60, 18" W  
INV. 1007.50, 30" NE  
INV. 1008.95, 24" SE
- EX. CURB INLET M.H.  
TOP 1018.83  
INV. 1011.03, 24" W  
INV. 1011.03, 24" N
- EX. CURB INLET M.H.  
TOP 1019.14  
INV. 1010.24, 24" S  
INV. 1010.24, 24" NW
- EX. CATCH BASIN  
TOP 1018.32  
INV. 1014.42, 15" E
- EX. CURB INLET M.H.  
TOP 1018.24  
INV. 1013.14, 15" W  
INV. 1013.14, 18" N
- EX. CURB INLET M.H.  
PROP. CATCH BASIN  
TOP 1019.26 (EX.)  
TOP 1018.30 (PROP.)  
INV. 1012.66, 18" S  
INV. 1012.66, 24" E
- EX. CURB INLET M.H.  
PROP. CATCH BASIN  
TOP 1017.77 (EX.)  
TOP 1017.59 (PROP.)  
INV. 1012.32, 24" W  
INV. 1012.32, 24" N
- EX. STM. M.H.  
TOP 1018.05 (EX.)  
TOP 1018.46 (PROP.)  
INV. 1012.00, 24" S  
INV. 1012.00, 24" N
- EX. CURB INLET M.H.  
PROP. CATCH BASIN  
TOP 1017.59 (EX.)  
TOP 1017.39 (PROP.)  
INV. 1011.48, 24" S  
INV. 1011.48, 24" N  
INV. 1013.38, 6" W



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CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	

GBC PROJECT #	43215A
PRINTED FOR	Permit
DATE	8/23/23
DRAWN BY	BAW

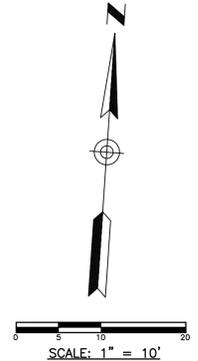
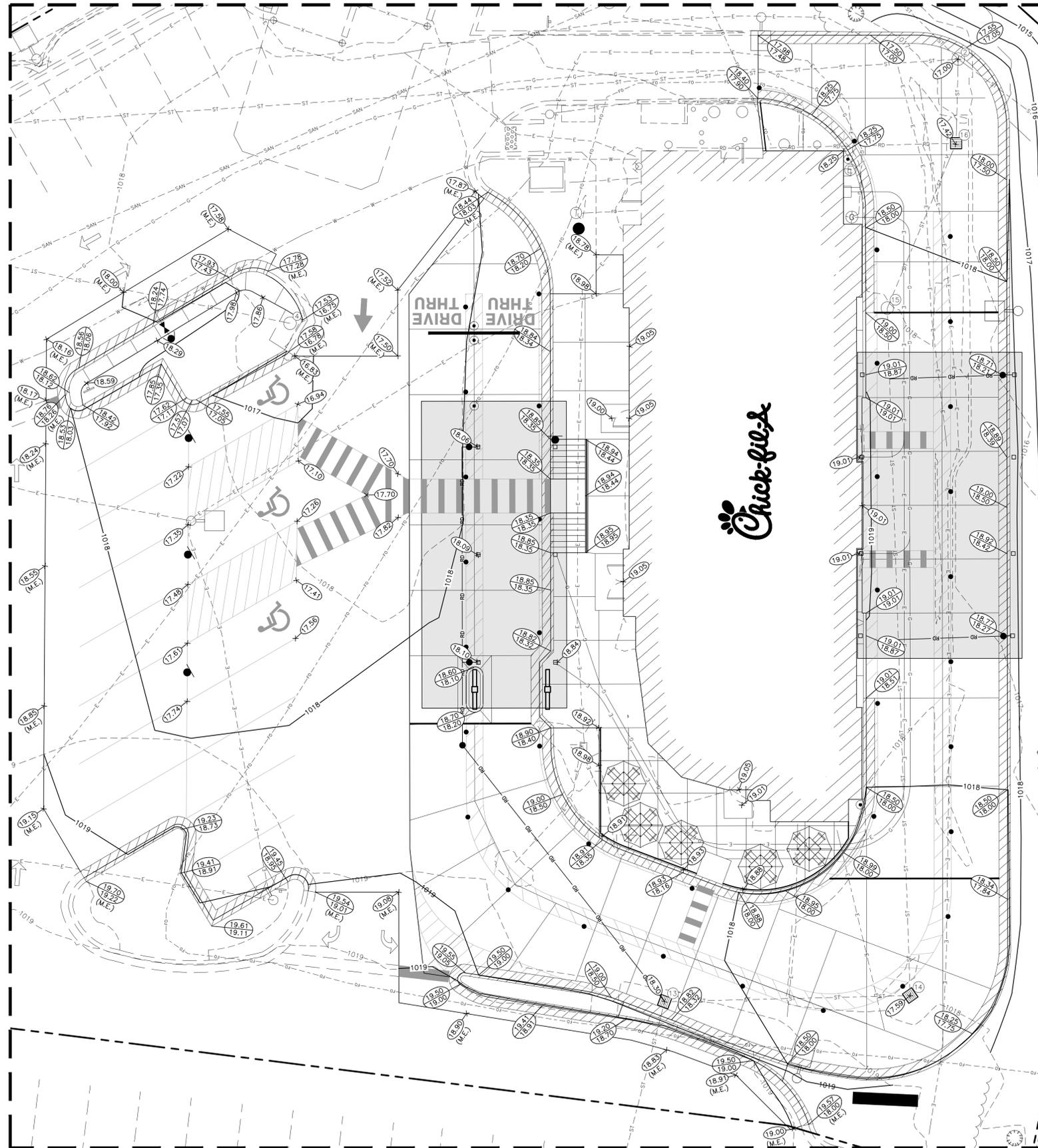
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SHEET  
**GRADING PLAN**

Permit  
SHEET NUMBER  
**C-300**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.

FLOOD ZONE DESIGNATION: THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE DESIGNATIONS OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 29095C04176, WITH A MAP REVISED DATE OF JANUARY 20, 2017, IN CITY OF LEE'S SUMMIT, JACKSON COUNTY IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.



**LEGEND**

+	PROP. FDC
△	EX. FIRE HYDRANT
▽	PROP. VALVE
×	EX. VALVE
○	PROP. MANHOLE
⊙	EX. MANHOLE
□	PROP. INLET
⊠	EX. INLET
---	EX. GRADE
○	PROP. TOP OF CURB ELEV.
○	PROP. BOTTOM OF CURB ELEV.
○	PROP. FINISHED ELEVATION
○	PROP. TOP OF WALL ELEV.
○	PROP. BOTTOM OF WALL ELEV.
—	POSITIVE DRAINAGE
---	EX. STORM SEWER
---	PROP. STORM SEWER
---	EX. CURB
---	PROP. CURB & GUTTER
---	PROP. CONTOURS
---	EX. CONTOURS
(M.E.)	MEET EXISTING ELEVATION

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.



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**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

REVISION SCHEDULE		DESCRIPTION
NO.	DATE	

GBC PROJECT #	43215A
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DATE	8/23/23
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SHEET  
**GRADING PLAN  
DETAIL**

Permit  
SHEET NUMBER

**C-301**



**PROJECT DESCRIPTION:**  
THE SITE IS AN EXISTING CHICK-FIL-A RESTAURANT AND IS BEING DISTURBED TO MODIFY THE PARKING LOT AND DRIVE THRU. AREA OF DISTURBANCE IS APPROXIMATELY 0.50 ACRES.

**SCHEDULE OF CONSTRUCTION ACTIVITY:**  
THE CONTRACTOR SHALL IMPLEMENT ALL EROSION CONTROL MEASURES PRIOR TO OTHER CONSTRUCTION ACTIVITY. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL THE SITE HAS BEEN STABILIZED UNLESS OTHERWISE STATED ON THE PLAN. SEE SEQUENCE OF CONSTRUCTION ACTIVITIES. SHT. C-310 AND SWPPP REPORT.

**EROSION CONTROL NOTES:**  
DIVERSION CHANNELS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED. BMP'S SHOULD BE CLEANED OUT ONCE CAPACITY HAS BEEN REDUCED BY 40 %.

EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES GREATER THAN 6 % GRADE.

**CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL.**

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF JOPLIN, MO.

OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

CONTRACTOR IS RESPONSIBLE TO PICK UP/CLEAN UP ANY LITTER, CONSTRUCTION DEBRIS AND/OR CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER PRIOR TO ANTICIPATED STORM EVENTS OR WIND EVENTS AS FORECASTED BY LOCAL WEATHER.

DUST SUPPRESSANTS ARE REQUIRED AS NEEDED.

OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD NOTED ON THE PLAN

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. PROVIDED WILL BE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN.

SILT FENCES ARE TO BE INSTALLED IN FRONT OF STORM INLETS AND FILL AREAS BEFORE STARTING CONSTRUCTION PER MANUFACTURERS RECOMMENDATIONS.

SILT FENCES ARE TO BE CONSTRUCTED ON THE OUTSIDE OF ALL STOCK PILES.

ALL EROSION CONTROL MEASURES TO BE MAINTAINED BY CONTRACTOR UNTIL PROJECT COMPLETION AND THEN REMOVED.

SEDIMENT TO BE REMOVED FROM SILT FENCE AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

ANY DE-WATERING ACTIVITY SHALL INCLUDE A DIRT BAG OR DANDY BAG AT THE END OF PUMPING DISCHARGE LINE PRIOR TO ENTERING INTO THE STORM SEWER.

EXISTING MAX. SLOPE TO OUTFALL = 25.0%  
EXISTING MIN. SLOPE TO OUTFALL = 1.0%

POST-CONSTRUCTION MAX. SLOPE TO OUTFALL = 33.3%  
POST-CONSTRUCTION MIN. SLOPE TO OUTFALL = 1.0%

PRE CONSTRUCTION RUNOFF COEFFICIENT = 0.81  
POST CONSTRUCTION RUNOFF COEFFICIENT = 0.85

PRE CONSTRUCTION IMPERVIOUS AREA = 49,337 S.F. (79.15%)  
POST CONSTRUCTION IMPERVIOUS AREA = 52,363 S.F. (84.01%)

RECEIVING WATER:

EXISTING TOPOGRAPHY: CURRENTLY THE SITE IS A CHICK-FIL-A RESTAURANT INSPECT OUTFALLS AND FIX SITE BASED ON THE INSPECTIONS. REVISE SWPPP IF APPROPRIATE.

THERE IS NO INDUSTRIAL/NON-CONSTRUCTION DISCHARGE ASSOCIATED WITH THIS PROJECT.

TEMPORARY SEEDING IS REQUIRED WHEN GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS, AND ON STOCKPILES. PERMANENT SEEDING IS REQUIRED WHEN GRADING OPERATIONS ARE COMPLETED AND/OR CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. SEED AREAS THAT SHOW SIGNS OF EROSION.

OFFSITE ACCUMULATION OF SEDIMENT WILL BE REMOVED, YET IF A STREAM IS REACHED, CONTACT WATER POLLUTION CONTROL FIRST.

NO TOXIC OR HAZARDOUS WASTES SHALL BE DISPOSED INTO STORM DRAINS, SEPTIC TANKS, OR BY BURYING, BURNING, OR MIXING WASTES. IF ANY ITEMS DESCRIBED NEED DISPOSAL OF, CONTRACTOR SHALL CONTACT CITY OF JOPLIN TO DETERMINE PREFERRED LOCAL RECYCLE LOCATION.

CONTRACTOR TO KEEP BRICKS, HARDENED CONCRETE, AND SOIL WASTE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.

ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

OPEN BURNING IS NOT ALLOWABLE.

CONTRACTOR TO MAINTAIN A RAIN GAUGE ON SITE OR NEARBY REFERENCE FOR RECORDS. INSPECTORS OF THE SITE MUST HAVE COMPLETED THE WFC FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL (EPSO) COURSE.

REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES UPON FINAL STABILIZATION & REMOVAL OF SEDIMENT IN THE DRAIN INLET FILTRATION DEVICES ACCORDING TO STATE AND LOCAL REGULATIONS.

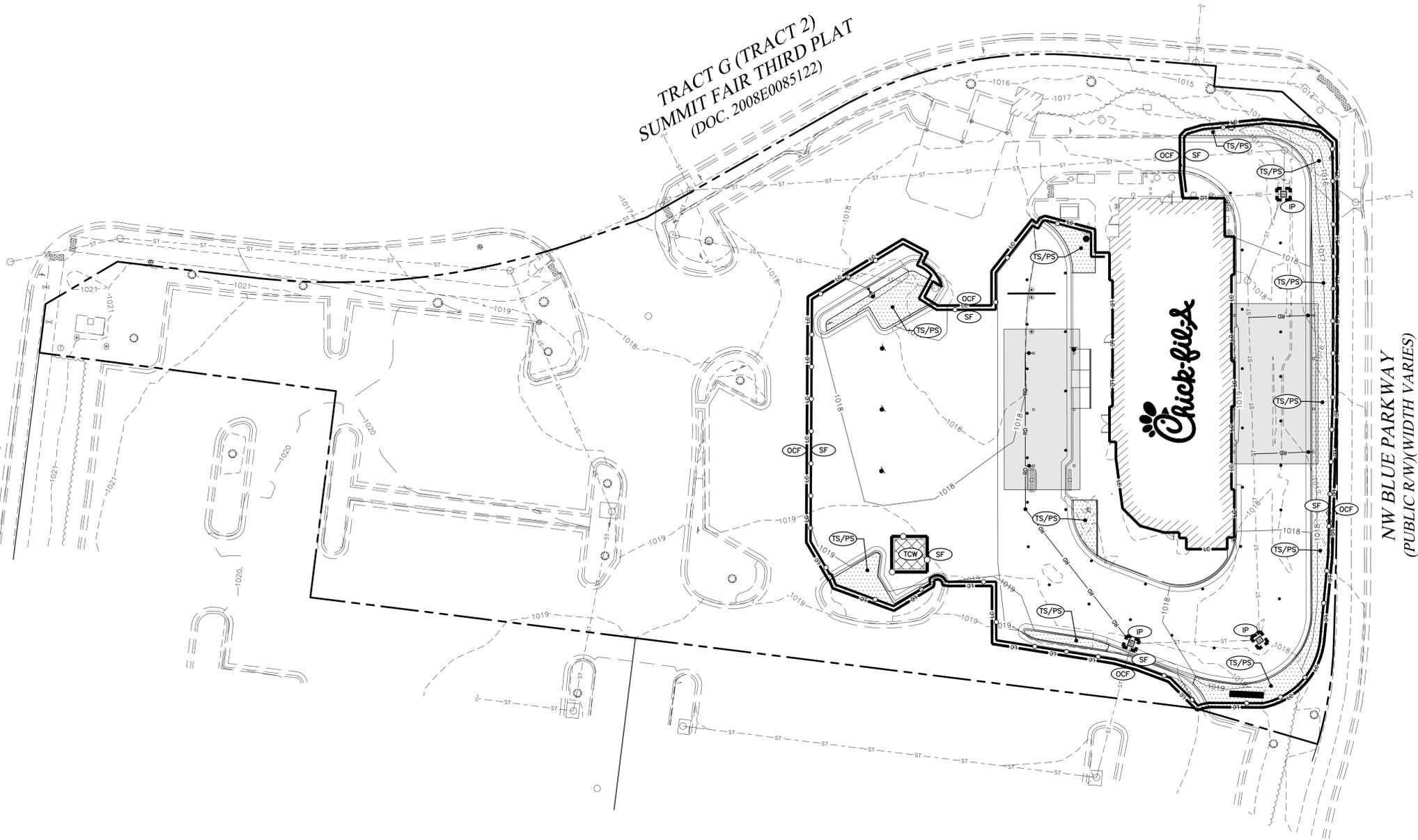
**SEQUENCE OF CONSTRUCTION ACTIVITY**

THE CONTRACTOR SHALL IMPLEMENT ALL OF THE FOLLOWING EROSION CONTROL MEASURES, IN THE ORDER STATED, PRIOR TO OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL AND STORM WATER POLLUTION PREVENTION ITEMS. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL THE SITE HAS BEEN STABILIZED.

- BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES
- CLEAR AREAS FOR CONSTRUCTION ENTRANCE AND SILT FENCE.
- INSTALL CONSTRUCTION ENTRANCE.
- POST SWPPP PLANS ONSITE.
- INSTALL EROSION CONTROL FENCES AND OTHER PERIMETER CONTROLS AROUND CONSTRUCTION AREA BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- INSTALL PROTECTION MEASURES AROUND EXISTING INLETS.
- BEGIN DEMOLITION AND EARTHWORK.
- COMPLETE THE CUT AND FILLS ON THE SITE. INSTALL CHECK DAMS OR STABILIZE THE SLOPES WITH EROSION CONTROL BLANKETS AS NEEDED.
- INSTALL STAGING AREAS, MATERIAL STORAGE AREAS, FUEL STATIONS, AND CONCRETE WASHOUT.
- INSTALL INLET FILTER PROTECTION AS INLETS ARE INSTALLED.
- CONTINUE SITE EXCAVATING, BACKFILLING, AND GRADING ACTIVITIES. ANY AREA LEFT DORMANT FOR MORE THAN 15 DAYS MUST BE TEMPORARILY SEEDED.
- FINISH MASS EARTHWORK.
- COMPLETE ASPHALT PAVING.
- FINAL GRADE AND FINISH.
- COMPLETE FINAL SEEDING AND LANDSCAPING AND STABILIZE ALL DISTURBED AREAS.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- REMOVE SEDIMENT FROM STORMWATER MANAGEMENT SYSTEM, SEED AND MULCH SITE AS NEEDED.

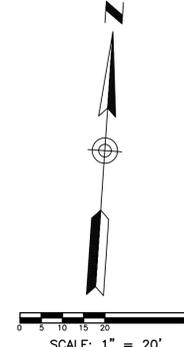
TRACT F (TRACT 2)  
SUMMIT FAIR THIRD PLAT  
(DOC. 2008E0085122)

TRACT G (TRACT 2)  
SUMMIT FAIR THIRD PLAT  
(DOC. 2008E0085122)



**LEGEND**

- ⊙ PROP. MANHOLE
- EX. MANHOLE
- ▣ PROP. INLET
- EX. INLET
- ST--- EX. STORM SEWER
- ST--- PROP. STORM SEWER
- ==== EX. CURB
- ==== PROP. CURB & GUTTER
- 000 PROP. CONTOURS
- 000 EX. CONTOURS
- SF SILT FENCE/FILTER SOCK
- OCF LIMITS OF CONSTRUCTION TO BE DESIGNATED BY ORANGE CONSTRUCTION FENCE WHEN NOT ADJACENT TO SILT FENCE
- IP INLET PROTECTION
- TS/PS TEMPORARY SEEDING & MULCHING / PERMANENT SEEDING & MULCHING SEE LANDSCAPE PLAN L-100
- TCW TEMPORARY CONCRETE WASH-OUT AREA



LIMITS OF DISTURBANCE = 0.50 AC.

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.



**Chick-fil-A**

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SHEET  
**Permit STORMWATER POLLUTION PREVENTION PLAN (SWPPP)**  
SHEET NUMBER

**C-310**

**FLEXSTORM<sup>®</sup> CATCH-IT<sup>®</sup> LITE**

**Installation Instructions:**

1. Remove grate from the drainage structure
2. Clean stone and dirt from ledge (lip) of drainage structure
3. Drop the FLEXSTORM inlet filter through the clear opening such that the hangers rest firmly on the lip of the structure.
4. Replace the grate and confirm it is not elevated more than 1/8", the thickness of the steel hangers.

**Meets ASTM D8057 standards**

**FLEXSTORM FX FABRIC SPECS**

PROPERTY	TEST METHOD	ENGLISH	METRIC
Mechanical			
TENSILE STRENGTH	ASTM D4632	350 x 225 Lbs.	1557 x 1001 N
ELONGATION	ASTM D4632	20% x 13%	20% x 13%
CUR PUNCTURE	ASTM D2041	1000 Lbs.	4448 N
TRAPEZOIDAL TEAR	ASTM D4633	110 x 75 Lbs.	483 x 334 N
PERFORMANCE			
UV RESISTANCE	ASTM D4355	90%	90%
UV RESISTANCE	ASTM D4355	90%	90%
PERFORMANCE			
APPEARANT OPENING SIZE	ASTM D4751	20 US STD SIEVE	850 mic
PERCENT OPEN AREA	ISO 9225 M407	37%	37%
PERMEABILITY	ASTM D4891	1.5 Sec <sup>2</sup>	1.5 Sec <sup>2</sup>
WATER FLOW RATE	ASTM D4491	200 gal./min/ft <sup>2</sup>	8145 l/min/m <sup>2</sup>

**Product Features**

- Rigid frame and removable geosynthetic bag
- Sized to meet treatment flow rate.
- Bag maintains shape to be extracted when completely filled with sediment
- Rigid frame capable of supporting full load of sediment without deforming.
- Does not interfere or elevate grate by more than 1/8"
- Bypass flow exceeds design flow of drainage location
- Filter bag achieves +80% gross removal efficiency per ASTM D7351.

**ASTM D8057**

**FILTER SOCK DETAIL (NOT TO SCALE)**

**FILTER SOCK ON PAVEMENT DETAIL (NOT TO SCALE)**

**NOTES:**

1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

**MAINTENANCE:**

6. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
7. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE FILTER.
8. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
9. REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

**Maximum Slope Length Above Filter Sock and Recommended Diameter**

Slope	Ratio (H/V)	8"	12"	18"	24"
0% - 2%	10% - 20%	125	250	300	350
10% - 20%	50-1 - 10-1	100	125	200	250
2% - 10%	10-1 - 5-1	75	100	150	200
20% - 33%	5-1 - 2-1	50	75	100	
>50%	>2-1	25	50	75	

**TEMP. CONCRETE WASHOUT FACILITY (BELOW GRADE) N.T.S.**

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE DETAIL WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10'.
3. LATH AND FLAGGING SHALL BE COMMERCIAL TYPE.
4. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. A SIGN SHALL BE INSTALLED ADJACENT TO WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
6. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT PROCEDURES.
7. WASHOUT OF CONCRETE TRUCKS SHALL BE PERFORMED IN DESIGNATED AREAS ONLY.
8. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASHOUT.
9. CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFFSITE.
10. CONCRETE WASTES SHALL BE ALLOWED TO HARDEN THEN BROKEN UP, REMOVED, AND PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATION ON A REGULAR BASIS.
11. WHEN TEMPORARY WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.

**INLET PROTECTION NOTE**

1. THE TYPICAL INLET SILTS FENCE DETAIL SHALL BE IN PLACE UNTIL PAVEMENT IS ESTABLISHED.
2. ONCE PAVEMENT HAS BEEN INSTALLED, THE INLETS WITH THE PAVING LIMITS MUST BE FITTED WITH THE "SILTS" SEDIMENT CONTROL DEVICE AS MANUFACTURED BY ACT ENVIRONMENTAL CONTROL, INC., OR APPROVED EQUAL.
3. SILTS SOCK MUST REMAIN IN PLACE UNTIL THE SITE HAS BEEN SEEDDED & STABILIZED.

**SILTS FENCE DETAIL**

1. SILTS FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILTS FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILTS FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILTS FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, SILTS FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILTS FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILTS FENCE.
6. THE HEIGHT OF THE SILTS FENCE SHALL BE A MIN. OF 18 IN. ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILTS FENCE SHALL BE PLACED IN A TRENCH CUT A MIN. OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

**CRITERIA FOR SILTS FENCE MATERIALS**

1. FENCE POSTS-- THE LENGTH SHALL BE A MIN. OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILTS FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./FT <sup>2</sup> MAXIMUM	ASTM D 3786
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26

**TEMPORARY SEEDING**

TEMPORARY SEEDING SPECIES SELECTION

SEEDING DATES	SPECIES	LB/1000 FT. <sup>2</sup>	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1	40 LB.
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE ANNUAL RYEGRASS	3	2 BUSHEL
	WHEAT TALL FESCUE ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION-SITE.
2. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDDED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
3. THE SEEDBED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
4. SOIL AMENDMENTS--APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDINGS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
5. SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

- MULCHING TEMPORARY SEEDING
1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
  2. MATERIALS:
    - STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL--GRAIN APPLIED AT 2 TONS/AC. OR 90 LB. / 1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.
    - HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. / AC. OR 46 LB. /1,000 SQ. FT.
    - OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS / AC.
  3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:
    - MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICAL ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN.
    - MULCH NETTINGS--NETTINGS SHALL BE USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MADE BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
    - ASPHALT EMULSION--ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GAL. / AC.
    - SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
    - WOOD-CELLULOSE FIBRE--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.



**Chick-fil-A**

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9-22-23

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REVISION SCHEDULE

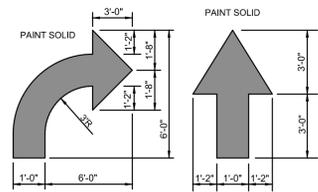
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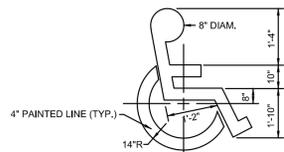
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SHEET SWPPP DETAILS

Permit SHEET NUMBER C-320



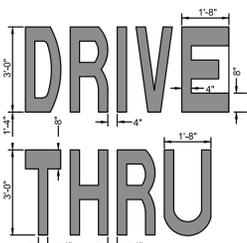
**1A DIRECTIONAL ARROW**  
NOT TO SCALE



**1B ACCESSIBILITY SYMBOL**  
NOT TO SCALE

- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS (SEE DETAIL 5/C-400).
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE, UNLESS UPON VERIFICATION BY THE GENERAL CONTRACTOR IT IS DETERMINED THAT LOCAL, STATE, OR ADA CODES DIFFER, IN WHICH CASE THESE CODES SHALL GOVERN.

**1 PAVEMENT MARKINGS - 1**  
NOT TO SCALE

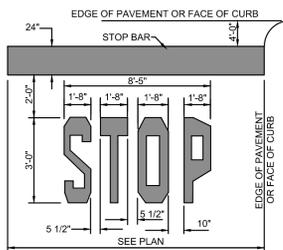


**2A DRIVE-THRU**  
NOT TO SCALE

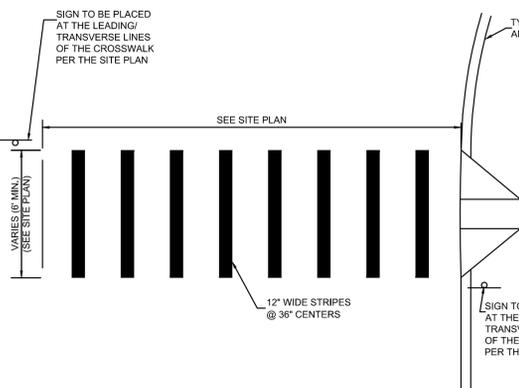
- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS.
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE, UNLESS UPON VERIFICATION BY THE GENERAL CONTRACTOR IT IS DETERMINED THAT LOCAL, STATE, OR ADA CODES DIFFER, IN WHICH CASE THESE CODES SHALL GOVERN.

**NOTE:**  
IF STOP SIGN IS PROPOSED, "STOP" LETTERING GRAPHIC IS NOT REQUIRED.

**2 PAVEMENT MARKINGS - 2**  
NOT TO SCALE

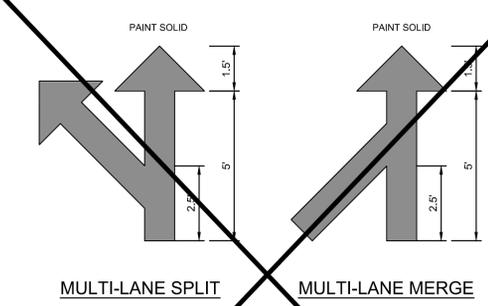


**2B STOP BAR**  
NOT TO SCALE



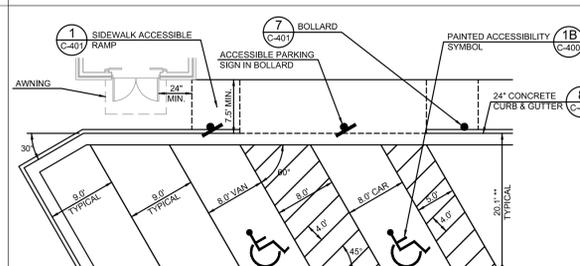
- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS (SEE DETAIL 5/C-400).
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT AND YELLOW REFLECTIVE PAINT ON CONCRETE.

**3 CROSSWALK MARKINGS**  
NOT TO SCALE



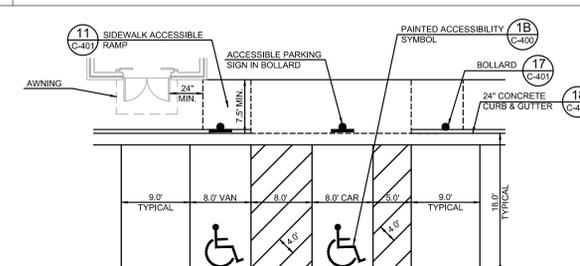
- NOTES:**
- GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS (SEE DETAIL 5/C-400).
  - CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE.

**4 MULTI-LANE DIRECTIONAL GRAPHICS**  
NOT TO SCALE



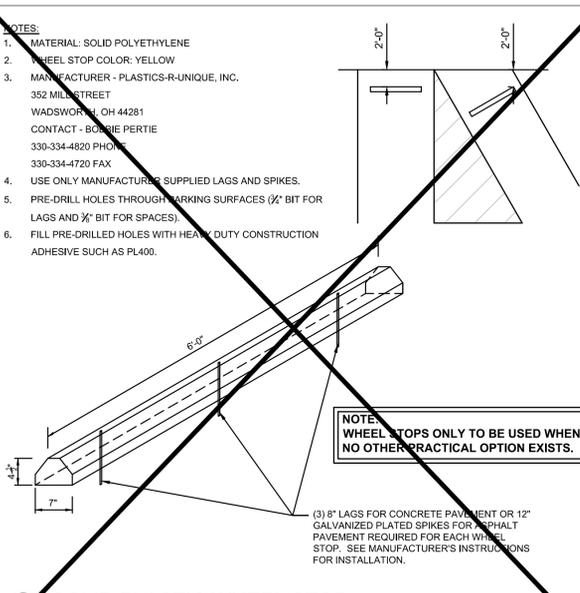
**5 PARKING STALL LAYOUT AND STRIPING**  
NOT TO SCALE

- NOTES:**
- ACCESSIBLE PARKING AND ACCESSIBLE AISLES SHALL NOT EXCEED 1.5% IN SLOPE IN ANY DIRECTION. IF ONLY ONE ACCESS AISLE IS INSTALLED, IT IS TO BE A VAN SIZE.
  - PARKING STALL DIMENSIONING SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITY'S AND ADA STANDARDS. SEE SITE PLAN FOR COMPLETE STRIPING LAYOUT.
  - GENERAL CONTRACTOR SHALL REFER TO CHICK-FIL-A PARKING LOT STRIPING SPECIFICATIONS, THIS DETAIL.
  - CONTRACTOR SHALL USE 4" WIDE WHITE REFLECTIVE PAINT FOR STRIPING ON ASPHALT PARKING LOTS.
  - CONTRACTOR SHALL USE 4" WIDE YELLOW REFLECTIVE PAINT FOR STRIPING ON CONCRETE PARKING LOTS.
  - ACCESSIBLE PARKING AND ACCESSIBLE AISLE STRIPING COLOR SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
  - NO WHEEL STOPS TO BE INSTALLED WHEN PARKING IS ADJACENT TO SIDEWALK.
  - ADA SIGNS IN BOLLARDS AND BOLLARDS SHALL BE INSTALLED WHEN PARKING IS ADJACENT TO FLUSH CURB OR A RAMP.
  - ALL DIMENSIONS ARE TO CENTER OF STRIPE UNLESS OTHERWISE NOTED.
  - STRIPING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

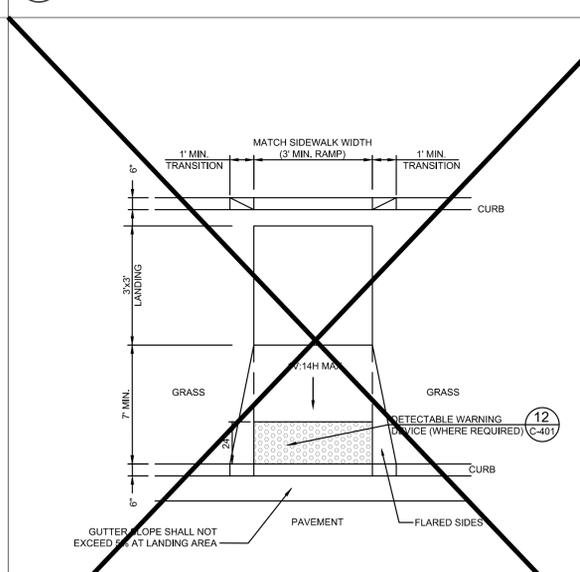


**6 SOLID PLASTIC WHEEL STOP**  
NOT TO SCALE

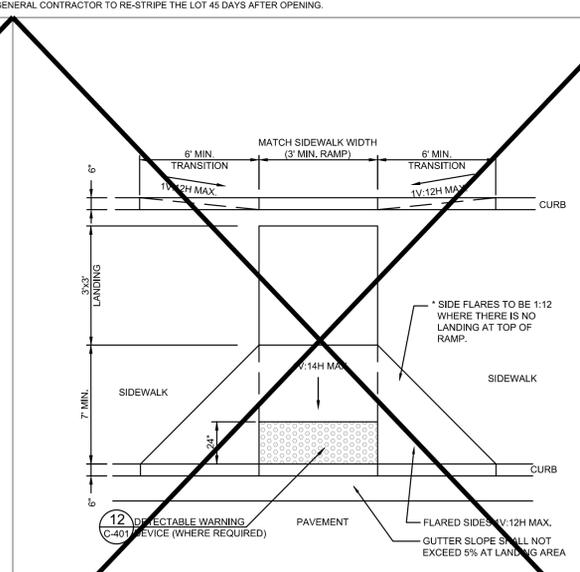
- PARKING LOT STRIPING SPECIFICATIONS:**
- STANDARDS:**
- ALWAYS FOLLOW ALL APPLICABLE GOVERNING AUTHORITY'S STANDARDS.
  - SURFACES SHOULD BE CLEAN, DRY, AND FREE FROM LOOSE OR PEELING PAINT. REMOVE ALL OIL, DUST, GREASE, DIRT, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION. DO NOT APPLY WHEN AIR OR SURFACE TEMPERATURES ARE BELOW 40°F.
  - APPLY SHERWIN-WILLIAMS SETFAST PREMIUM ALKYD ZONE MARKING PAINT A300 WHITE OR A303 YELLOW USING EITHER AIRLESS OR CONVENTIONAL LINE STRIPING EQUIPMENT. USE THE FOLLOWING SETTINGS AS A GUIDE-ACTUAL SETTINGS DEPEND ON ATMOSPHERIC CONDITIONS AT THE TIME OF APPLICATION:
- AIRLESS**
- PRESSURE: 1800-2700 PSI
  - HOSE: 3/4" ID
  - TIP: 0.015"-0.017"
  - FILTER: 60 MESH
  - REDUCTION: ONLY IF NECESSARY, UP TO 1PT/GAL VM&P NAPHTHA R1K3
- CONVENTIONAL**
- SUN: BLINKS 21 (BLEEDER) OR EQUIVALENT #68
  - FLUID NOZZLE: INTERNAL MIX, #709
  - AIR NOZZLE: 45-80 PSI
  - ATOMIZATION PRESSURE: 40-70 PSI
  - FLUID PRESSURE: ONLY IF NECESSARY, UP TO 1PT/GAL VM&P NAPHTHA R1K3
  - REDUCTION: ONLY IF NECESSARY, UP TO 1PT/GAL VM&P NAPHTHA R1K3
- OTHER NOTES:**
- SHERWIN WILLIAMS, H&C SHARK GRIP SLIP RESISTANT ADDITIVE TO BE MEASURED AND ADDED TO ALL PAINT PER MANUFACTURER'S WRITTEN SPECIFICATIONS. MIX THOROUGHLY PER MANUFACTURER'S RECOMMENDATIONS SO THAT NO CLUMPING IS APPARENT AND UNTIL EVEN DISTRIBUTION IS ACHIEVED. MAINTAIN EVEN DISTRIBUTION OF ADDITIVE IN PAINT THROUGHOUT THE APPLICATION PROCESS.
  - MIX PAINT THOROUGHLY BY BOXING, STIRRING, OR POWER AGITATION BEFORE USE. APPLY AT 15 MILS WET TO ACHIEVE A SPREAD RATE OF 400-500 LINEAL FEET OF STANDARD 4" STRIPE PER GALLON. APPLIED AT THIS RATE AT 70 DEGREES F AND 50% RELATIVE HUMIDITY, PAINT WILL DRY WITH NO TRAFFIC PICKUP AFTER 20 MINUTES.
  - GENERAL CONTRACTOR TO RE-STRIP THE LOT 45 DAYS AFTER OPENING.



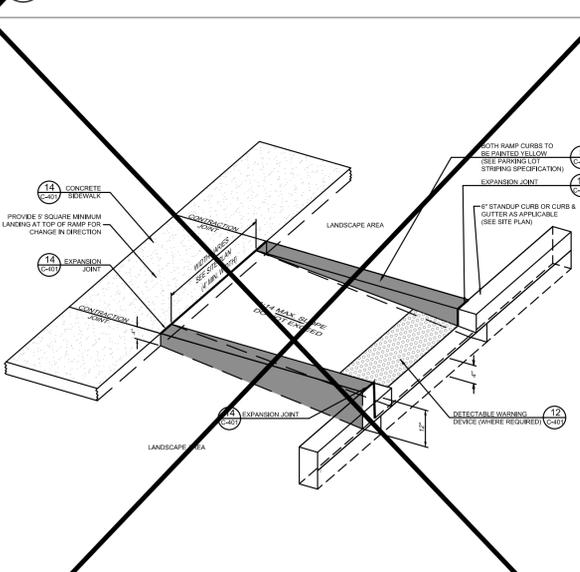
**7 BOLLARD MOUNTED SIGN**  
NOT TO SCALE



**8 CURB RAMP w/ SHORT FLARED SIDES**  
NOT TO SCALE



**9 CURB RAMP w/ FLARED SIDES**  
NOT TO SCALE



**10 RETURNED CURB RAMP**  
NOT TO SCALE



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

GBC DESIGN, INC.  
565 White Pond Dr.  
Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782



**CHICK-FIL-A**  
SUMMIT FAIR FSU  
CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

FSU# 02859

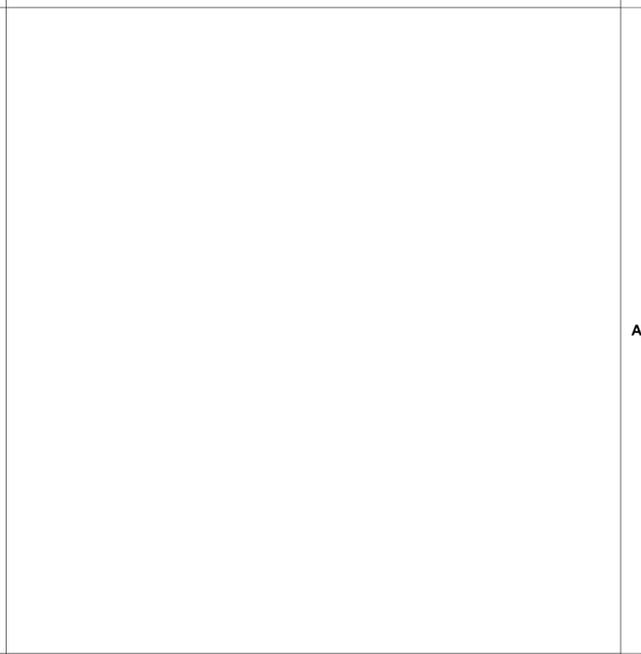
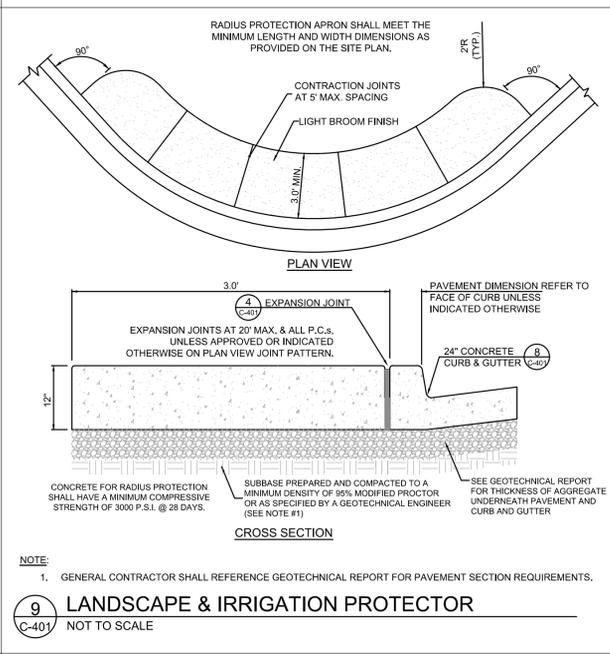
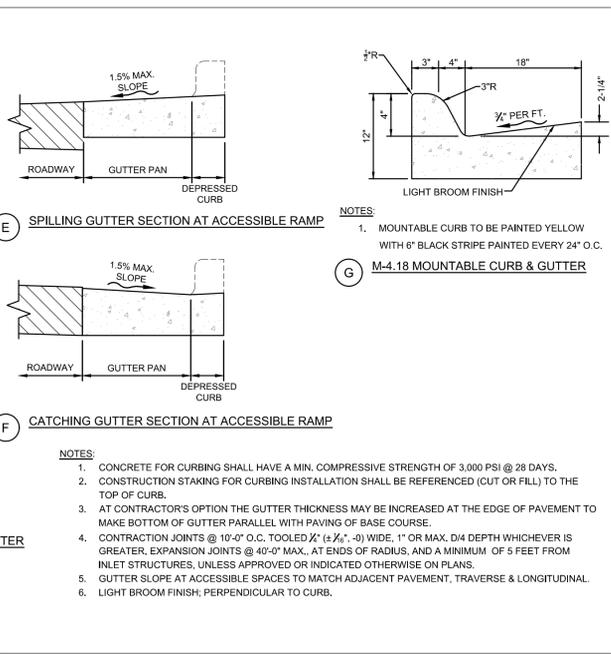
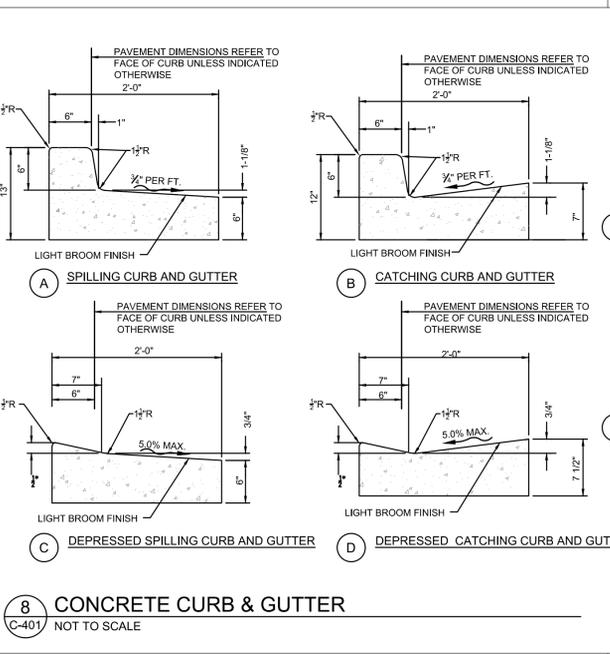
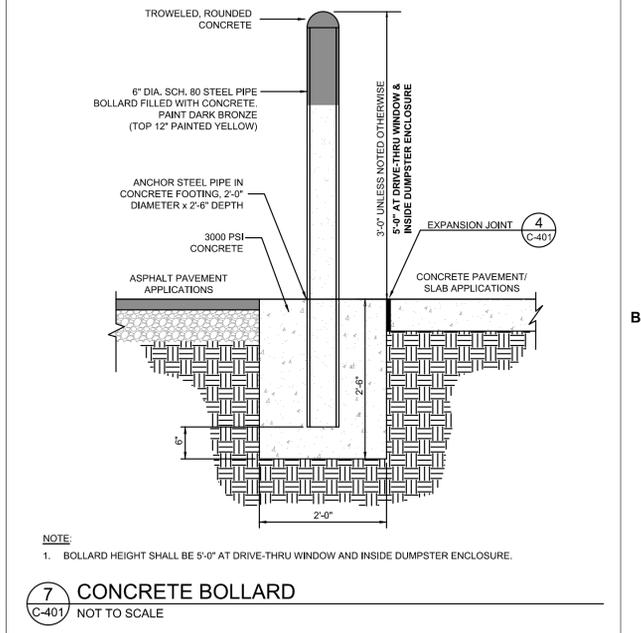
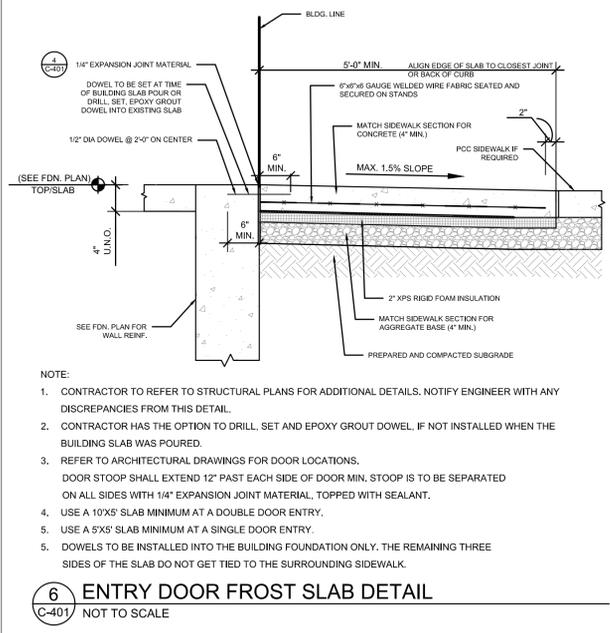
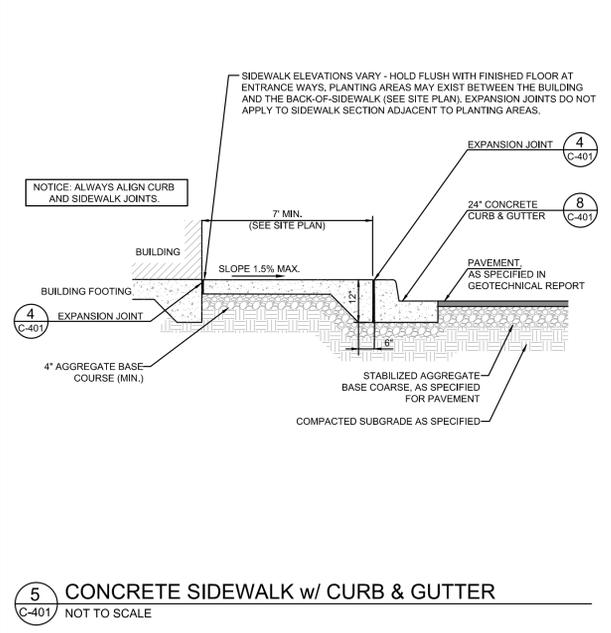
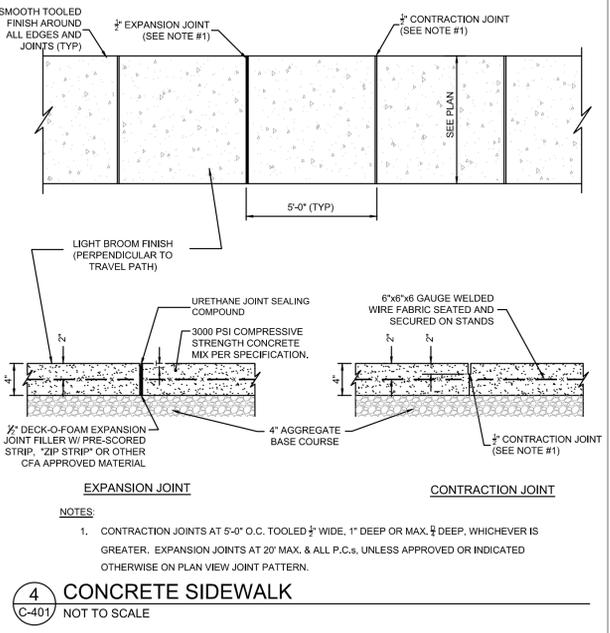
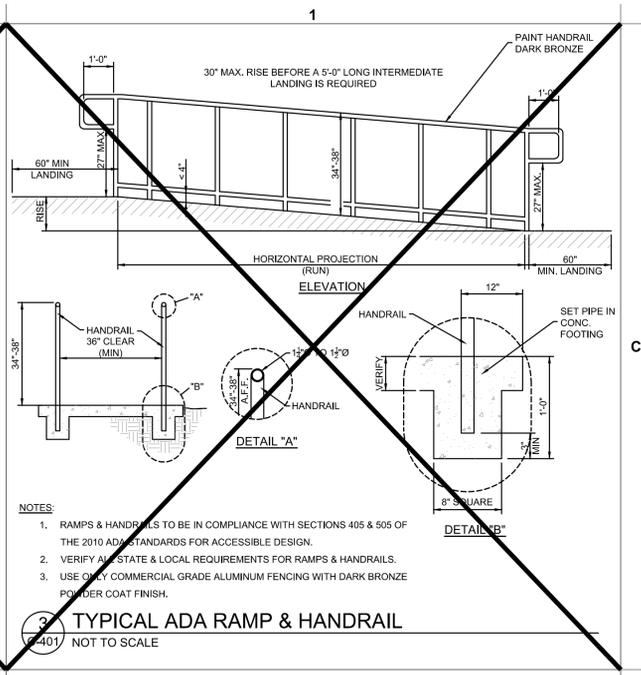
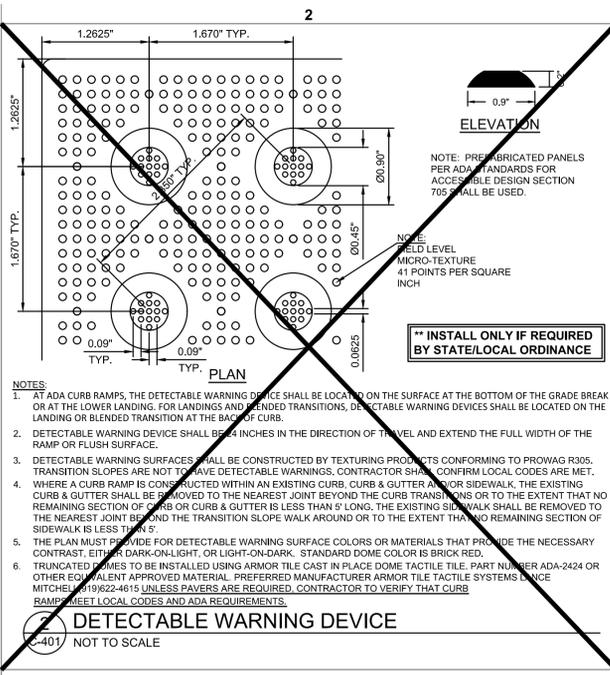
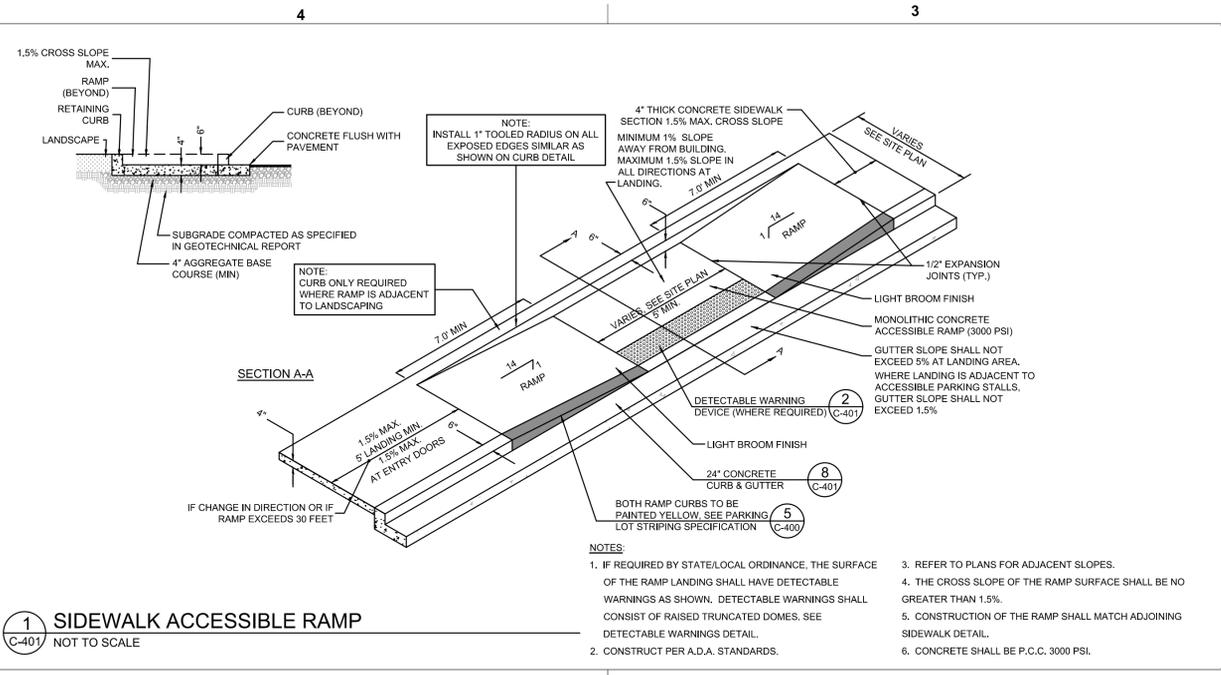
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SHEET CHICK-FIL-A SITE DETAILS

SHEET NUMBER C-400



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**CHICK-FIL-A**  
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CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

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SHEET **CHICK-FIL-A SITE DETAILS**

Permit SHEET NUMBER

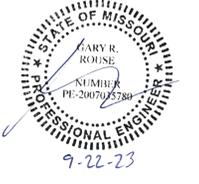
**C-401**



Chick-fil-A

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690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

FSU# 02859

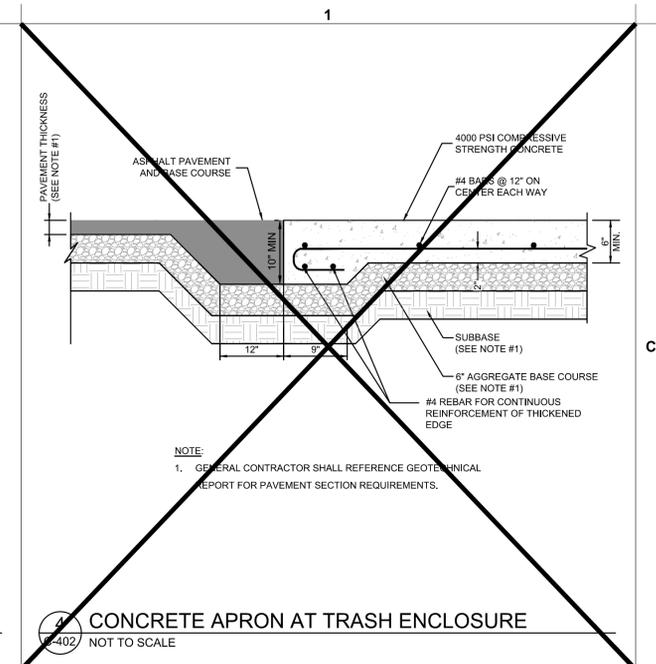
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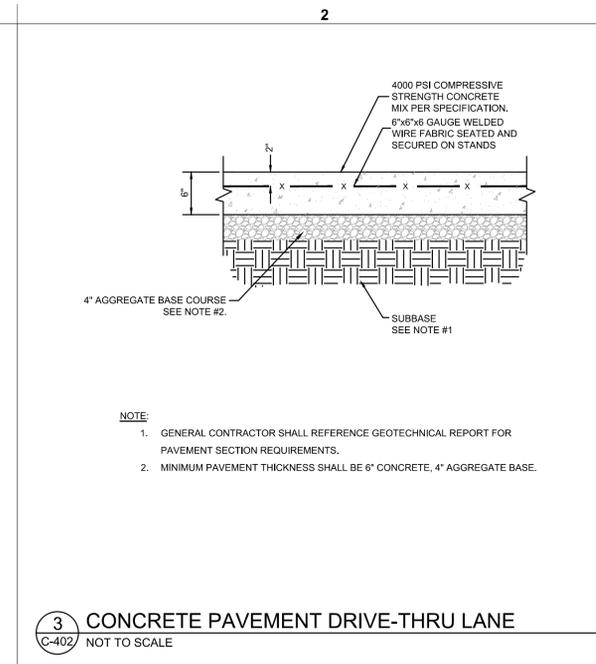
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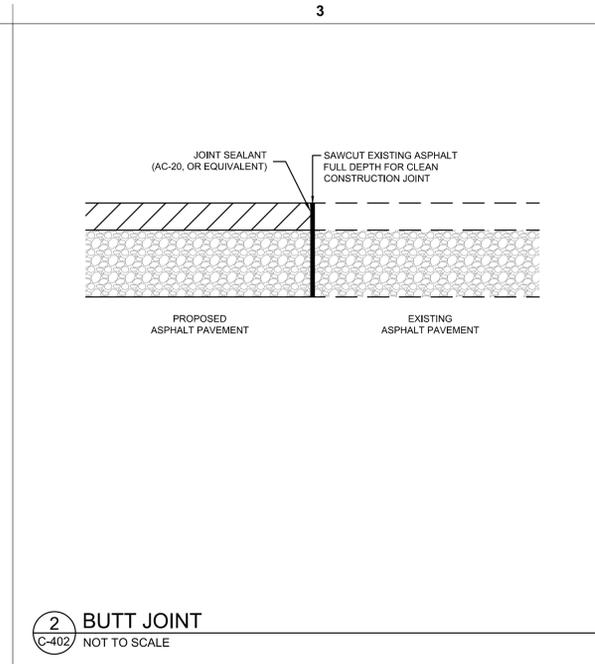
Permit SHEET NUMBER C-402



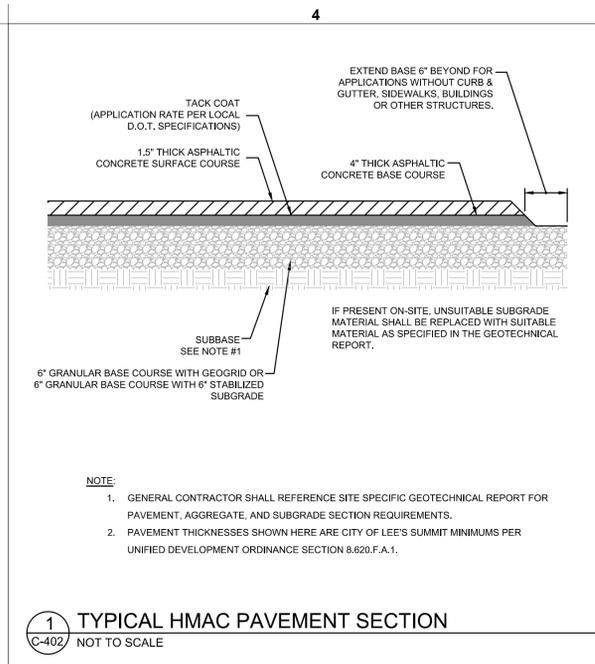
1 CONCRETE APRON AT TRASH ENCLOSURE  
C-402 NOT TO SCALE



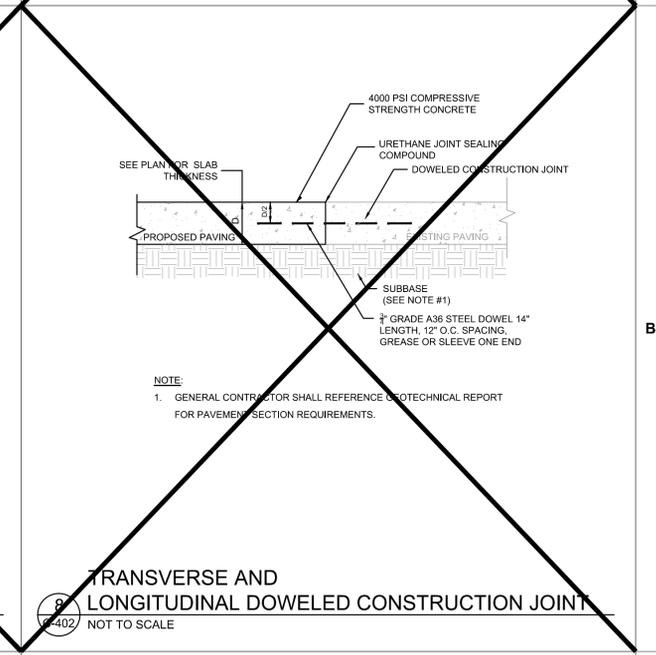
2 CONCRETE PAVEMENT DRIVE-THRU LANE  
C-402 NOT TO SCALE



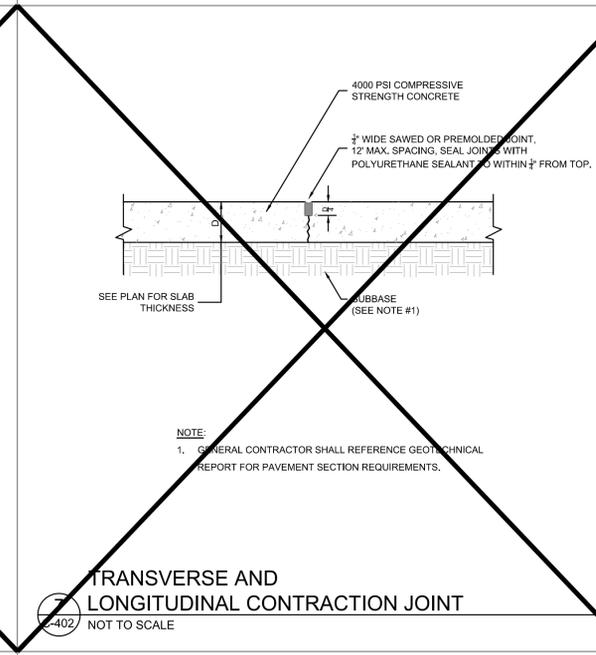
3 BUTT JOINT  
C-402 NOT TO SCALE



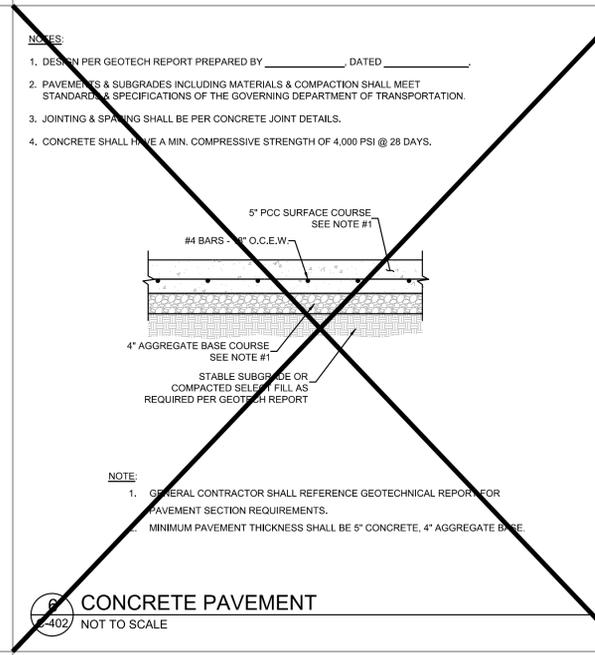
4 TYPICAL HMAC PAVEMENT SECTION  
C-402 NOT TO SCALE



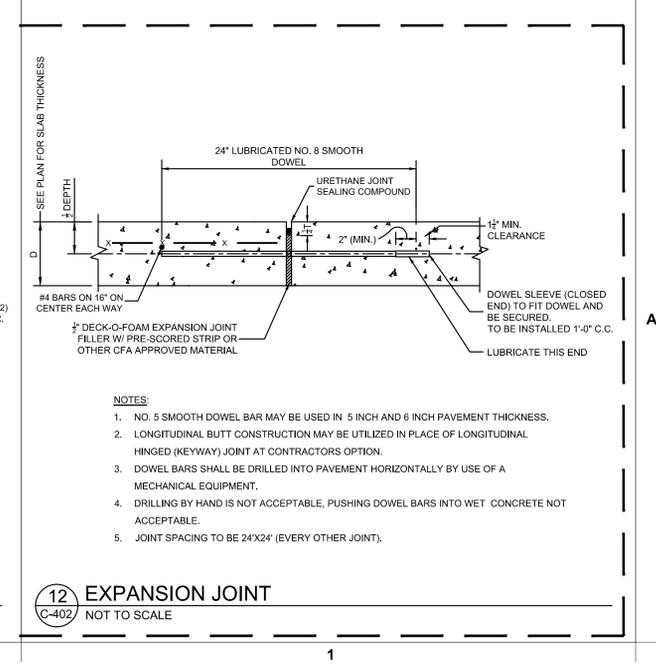
5 PAVEMENT EDGE DETAIL (START & END OF DRIVE-THRU LANES)  
C-402 NOT TO SCALE



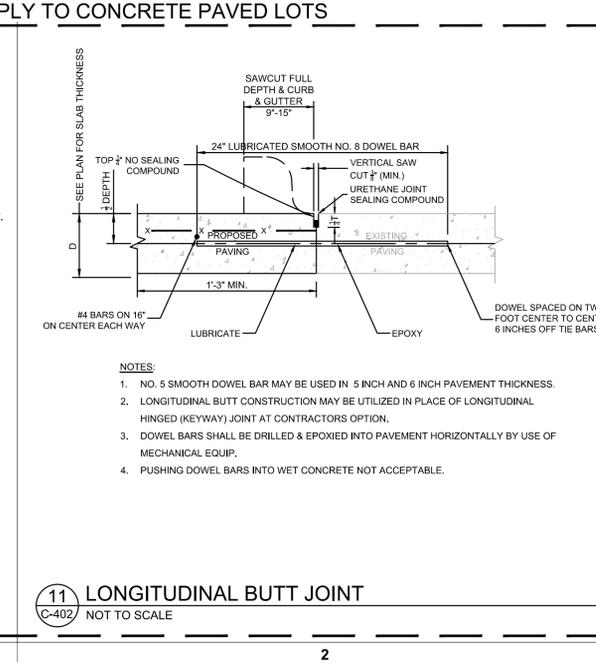
6 TRANSVERSE AND LONGITUDINAL CONTRACTION JOINT  
C-402 NOT TO SCALE



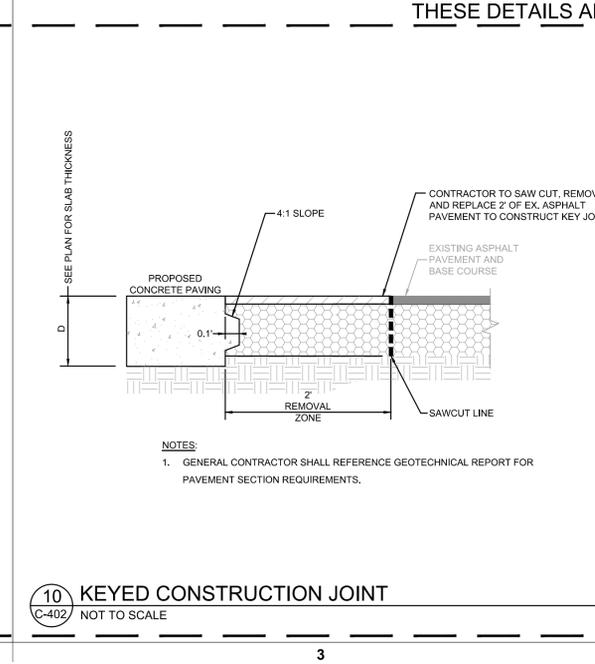
7 CONCRETE PAVEMENT  
C-402 NOT TO SCALE



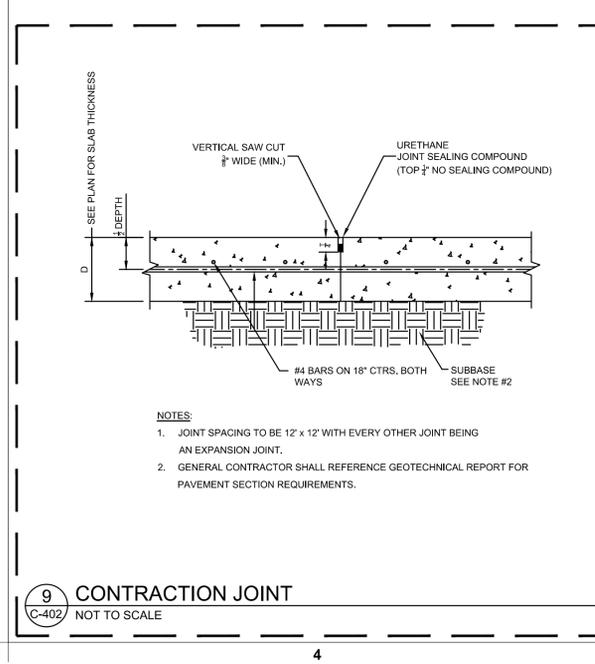
8 TRANSVERSE AND LONGITUDINAL DOWELED CONSTRUCTION JOINT  
C-402 NOT TO SCALE



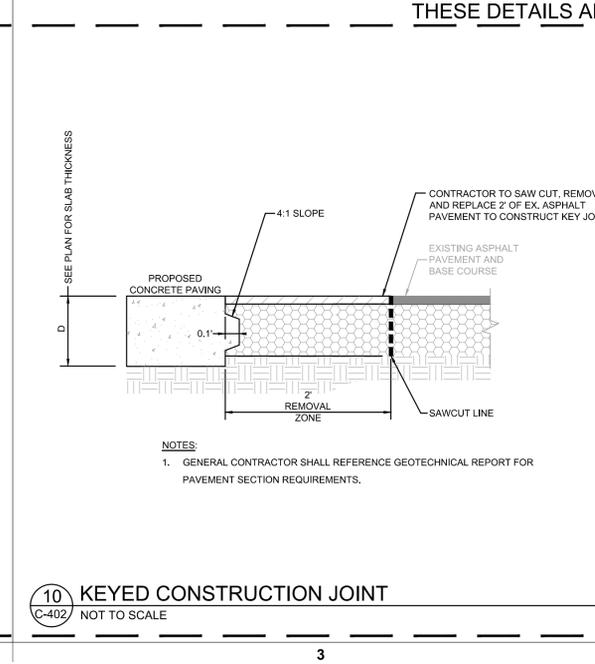
9 CONTRACTION JOINT  
C-402 NOT TO SCALE



10 KEYED CONSTRUCTION JOINT  
C-402 NOT TO SCALE

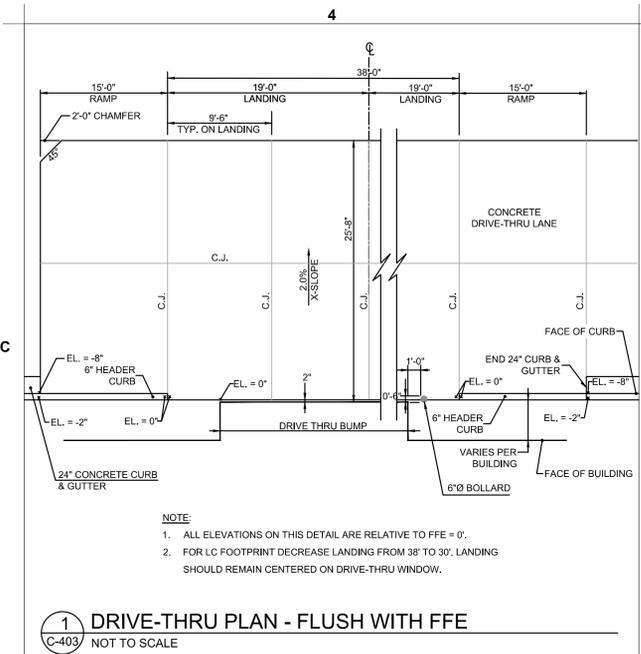


11 LONGITUDINAL BUTT JOINT  
C-402 NOT TO SCALE

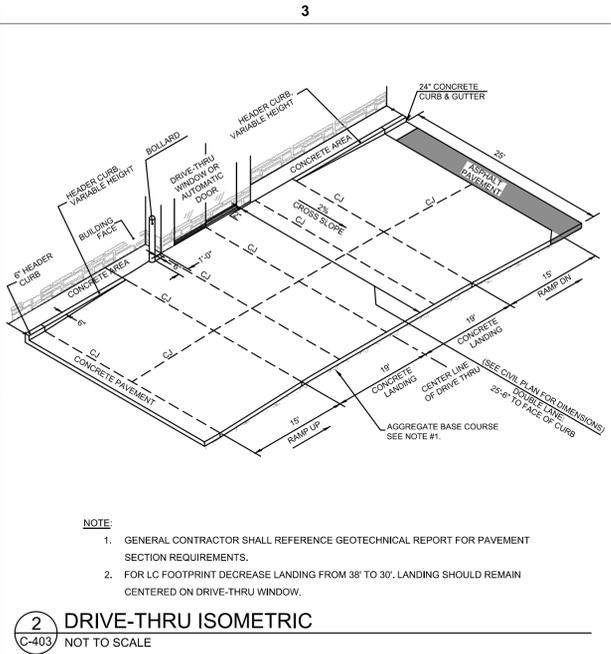


12 EXPANSION JOINT  
C-402 NOT TO SCALE

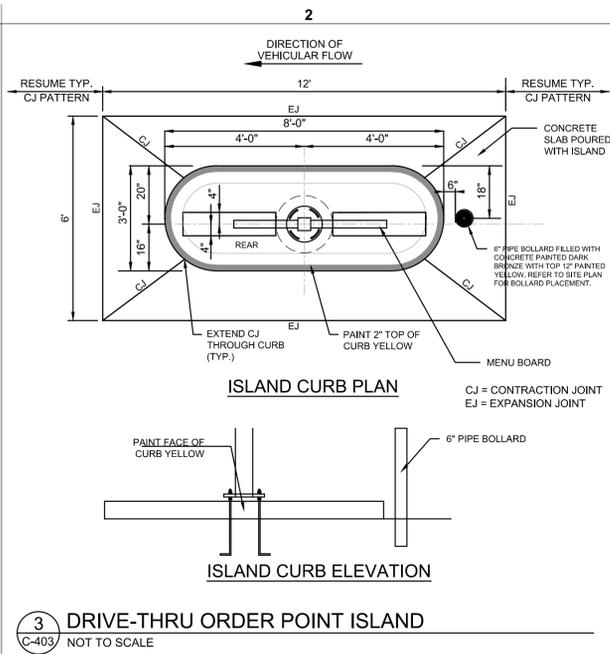
THESE DETAILS APPLY TO CONCRETE PAVED LOTS



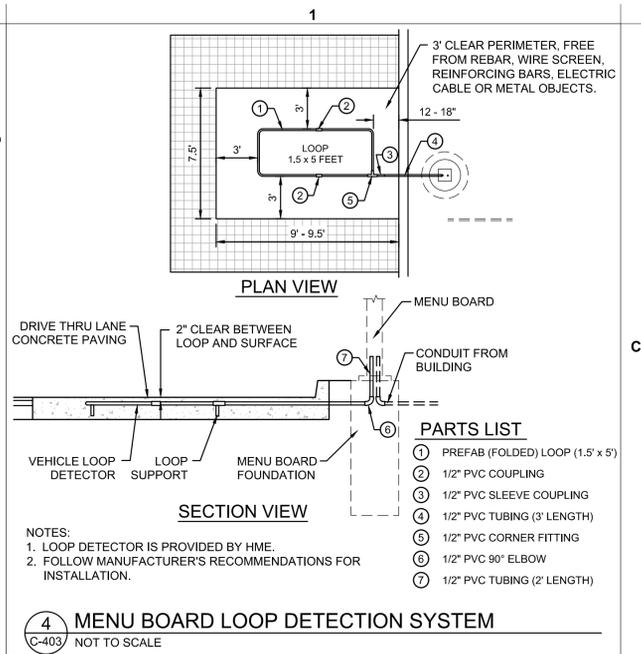
**1 DRIVE-THRU PLAN - FLUSH WITH FFE**  
C-403 NOT TO SCALE



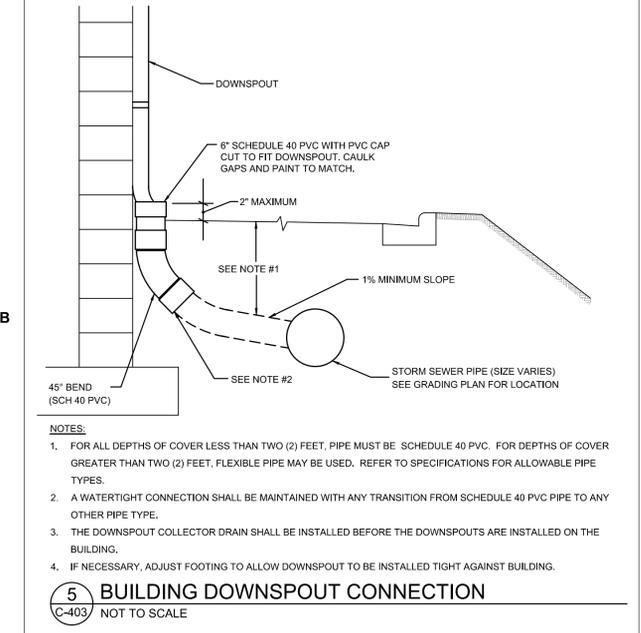
**2 DRIVE-THRU ISOMETRIC**  
C-403 NOT TO SCALE



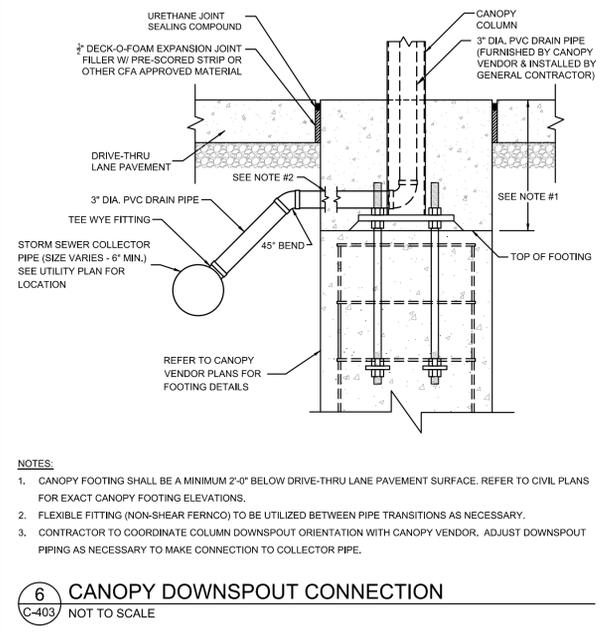
**3 DRIVE-THRU ORDER POINT ISLAND**  
C-403 NOT TO SCALE



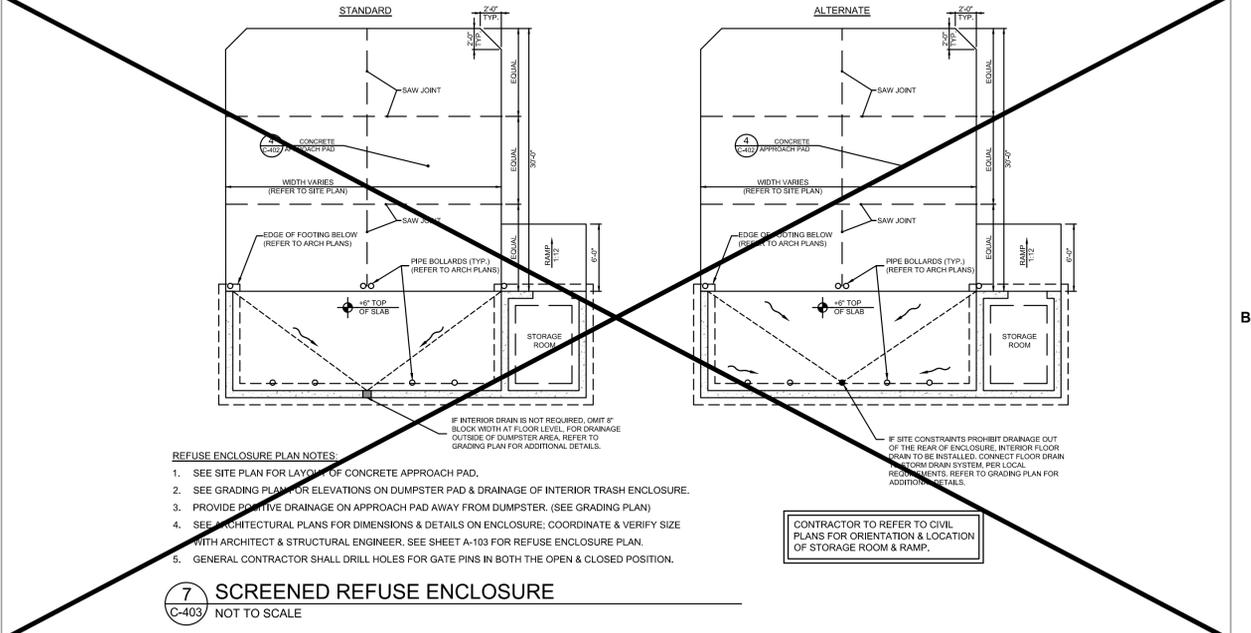
**4 MENU BOARD LOOP DETECTION SYSTEM**  
C-403 NOT TO SCALE



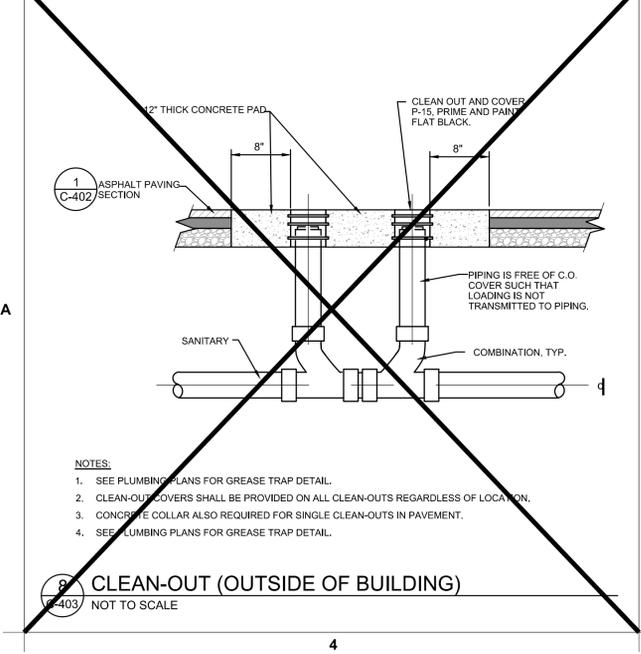
**5 BUILDING DOWNSPOUT CONNECTION**  
C-403 NOT TO SCALE



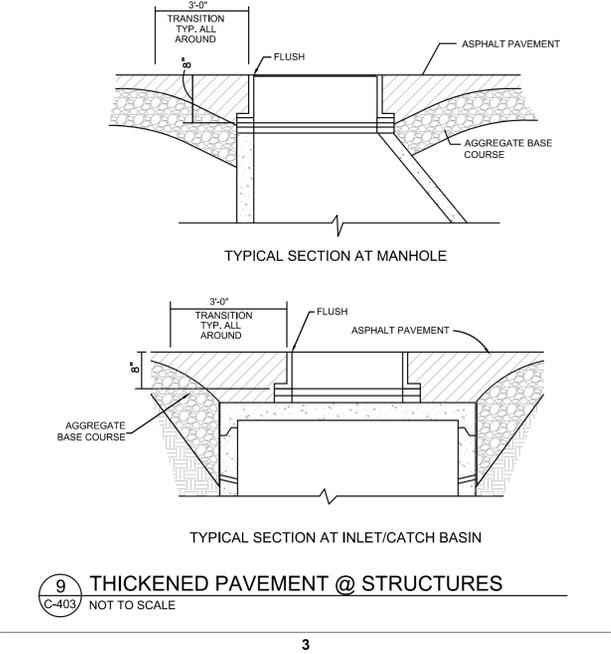
**6 CANOPY DOWNSPOUT CONNECTION**  
C-403 NOT TO SCALE



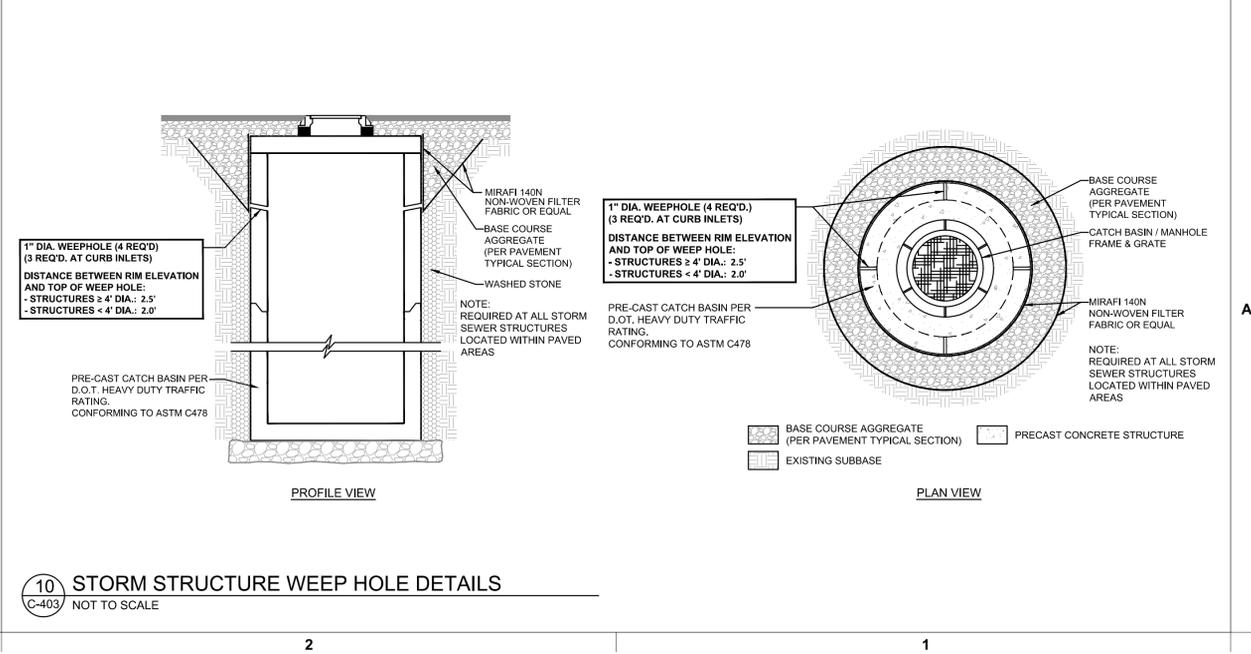
**7 SCREENED REFUSE ENCLOSURE**  
C-403 NOT TO SCALE



**8 CLEAN-OUT (OUTSIDE OF BUILDING)**  
C-403 NOT TO SCALE



**9 THICKENED PAVEMENT @ STRUCTURES**  
C-403 NOT TO SCALE



**10 STORM STRUCTURE WEEP HOLE DETAILS**  
C-403 NOT TO SCALE



**Chick-fil-A**

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CUSTOM PROJECT SOLUTIONS  
690 NW BLUE PARKWAY  
LEE'S SUMMIT, MO 64086

**FSU# 02859**

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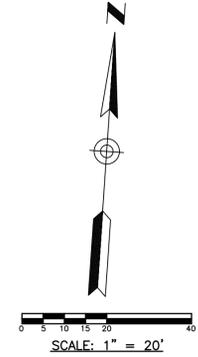
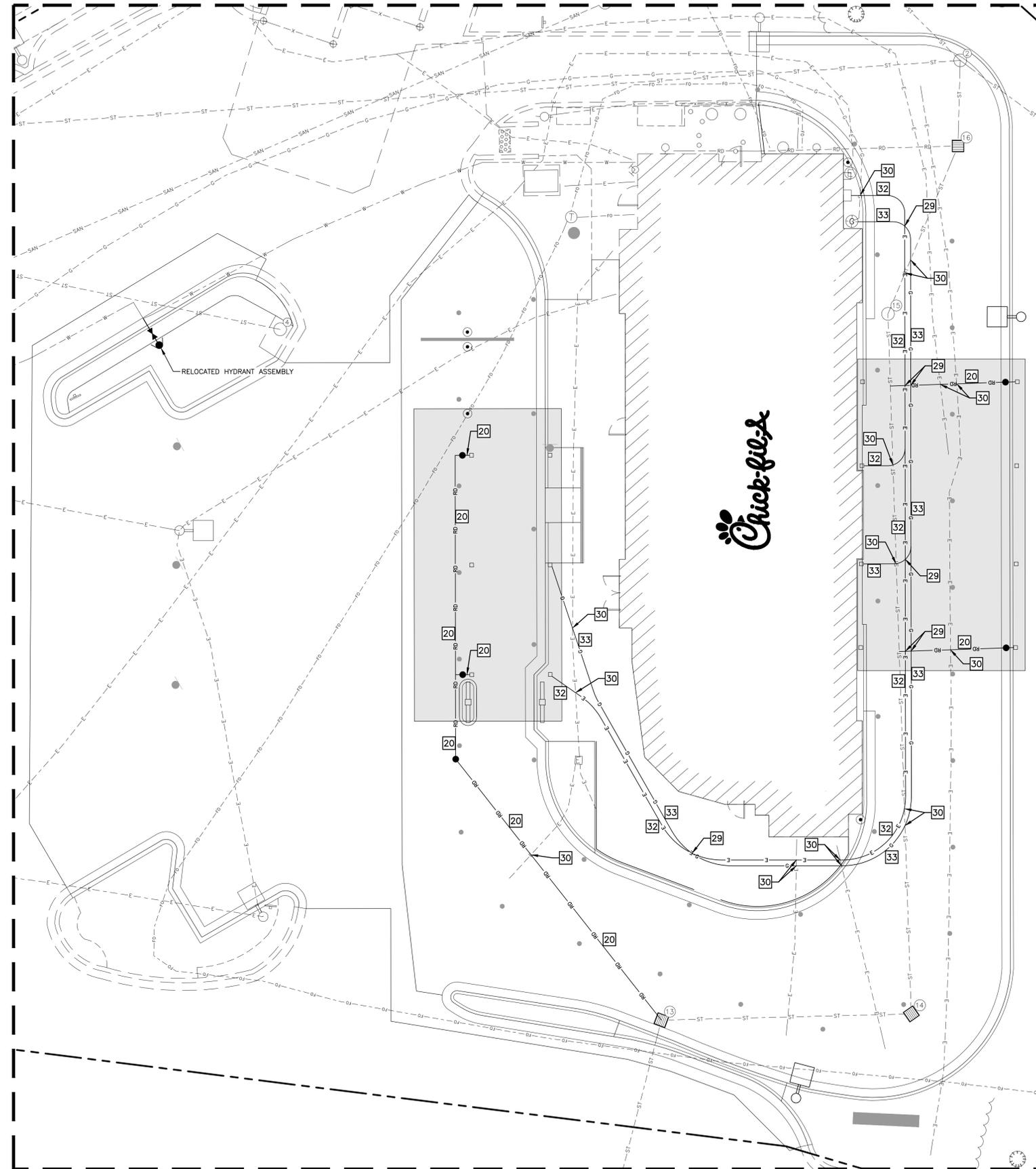
**CHICK-FIL-A SITE DETAILS**

**Permit SHEET NUMBER C-403**



**UTILITY LAYOUT NOTES**

- 20 INSTALL 6" SCHEDULE 40 PVC ROOF DRAIN PIPE DRAIN INCLUDING ALL NECESSARY FITTINGS. CONNECT TO 6" ROOF DRAIN. SITE CONTRACTOR TO COORDINATE WITH BUILDING AND PLUMBING CONTRACTOR.
- 29 PROPOSED UTILITY CROSSING—CONTRACTOR TO MAINTAIN REQUIRED CLEARANCES.
- 30 EXISTING UTILITY CROSSING. CONTRACTOR TO VERIFY EXACT ELEVATIONS OF THE EXISTING UTILITY PRIOR TO THE START OF CONSTRUCTION. REPORT ANY CONFLICTS WITH PROPOSED UTILITIES TO GBC DESIGN, INC. PRIOR TO THE START OF CONSTRUCTION OF THE PROPOSED UTILITY. CONTRACTOR TO MAINTAIN REQUIRED CLEARANCES.
- 32 INSTALL ELECTRIC SERVICE TO CANOPY (REFER TO MEP PLANS). INSTALL TRENCHING AND 2-2" SCHEDULE 40 PVC CONDUITS PER MEP SPECIFICATIONS. SITE CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR.
- 33 INSTALL GAS SERVICE TO CANOPY (REFER TO MEP PLANS). SITE CONTRACTOR TO COORDINATE WITH BUILDING AND PLUMBING CONTRACTOR.



**LEGEND**

	EX. FIRE HYDRANT
	EX. VALVE
	PROP. MANHOLE
	EX. MANHOLE
	PROP. INLET
	EX. BOX INLET
	EX. LIGHT POLE
	PROP. LIGHT POLE
	EX. UTILITY POLE
	PROP. UTILITY POLE
	EX. CURB
	PROP. CURB & GUTTER
	EX. CABLE T.V. LINE
	PROP. CABLE T.V. LINE
	PROP. ELECTRIC LINE
	EX. ELECTRIC LINE
	EX. FIBER OPTIC LINE
	PROP. GAS LINE
	EX. GAS LINE
	PROP. TELEPHONE LINE
	EX. TELEPHONE LINE
	PROP. SANITARY SEWER
	PROP. SANITARY LATERAL
	PROP. SANITARY LATERAL VENT
	EX. SANITARY SEWER (PRIVATE)
	PROP. STORM SEWER
	EX. STORM SEWER
	PROP. FIRE WATER LINE
	PROP. DOMESTIC WATER LINE
	PROP. FIRE WATER SERVICE
	PROP. WATER MAIN
	PROP. IRRIGATION SERVICE



**Chick-fil-A**

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

**FSU# 02859**

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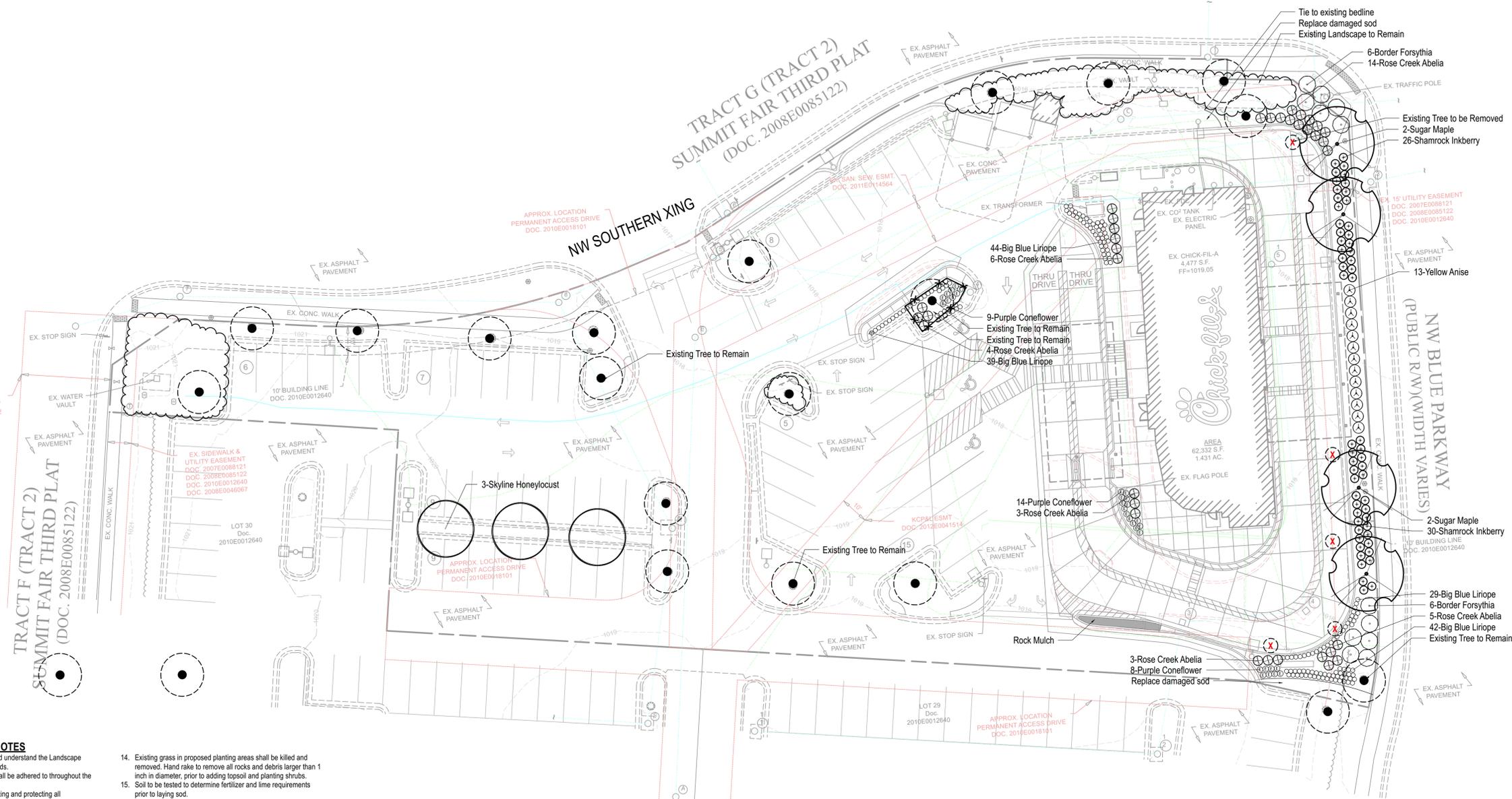
SHEET  
**UTILITY PLAN**

Permit  
SHEET NUMBER

**PS-100**

CONTRACTOR RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AND CROSSINGS AS SHOWN ON SITE PLANS (SANITARY, STORM, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTACT ALLAN WILEY AT GBC DESIGN, INC., 330-836-0228, WITH ANY CONCERNS OR CONFLICTS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO VERIFY THE THICKNESS OF ANY OFF-SITE PAVEMENT (ASPHALT AND CONCRETE) AND SIDEWALK SO THE RESTORATION WORK IS INCLUDED IN THE BID.





**MIDWEST LANDSCAPE NOTES**

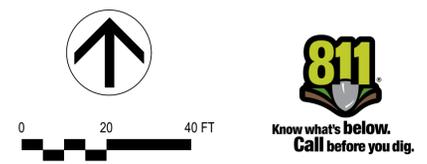
- Landscape Contractor to read and understand the Landscape Specifications prior to finalizing bids. The Landscape Specifications shall be adhered to throughout the construction process.
- Contractor is responsible for locating and protecting all underground utilities prior to digging.
- Contractor is responsible for protecting existing trees from damage during construction.
- All tree protection devices to be installed prior to the start of land disturbance, and maintained until final landscaping.
- All tree protection areas to be protected from sedimentation.
- All tree protection fencing to be inspected daily, and repaired or replaced as needed.
- No parking, storage or other construction activities are to occur within tree protection areas.
- All planting areas shall be cleaned of construction debris (ie. concrete, rock, rubble, building materials, etc) prior to adding and spreading of the topsoil.
- General Contractor is responsible for adding a min of 4" clean friable topsoil in all planting beds and all grassed areas. Graded areas to be held down the appropriate elevation to account for topsoil depth. See Landscape Specifications for required topsoil characteristics.
- In all parking lot islands, the General Contractor is responsible to remove all debris, fracture/loosen subgrade to a min. 24" depth. Add topsoil to a 6"-8" berm height above island curbing; refer to landscape specifications and landscape island detail.
- Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve topsoil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.
- Any deviations from the approved set of plans are to be approved by the Landscape Architect.
- Landscaping shall be installed in conformance with ANSI Z60.1 the "American Standard for Nursery Stock" and the accepted standards of the American Association of Nurserymen.
- Existing grass in proposed planting areas shall be killed and removed. Hand rake to remove all rocks and debris larger than 1 inch in diameter, prior to adding topsoil and planting shrubs.
- Soil to be tested to determine fertilizer and lime requirements prior to laying sod.
- Annual and perennial beds: add min. 4 inch layer of organic material and till to a min. depth of 12 inches. Mulch annual and perennial beds with 2-3 inch depth of mini nuggets.
- All shrubs beds (existing and new) to be mulched with a min. 3 inch layer of mulch. Rock Mulch to be provided around the building as shown and called out on the landscape plan, all other planting beds are to be mulched with double shredded hardwood mulch.
- Planting holes to be dug a minimum of twice the width of the root ball, for both shrub and tree. Set plant material 2-3" above finish grade. Backfill planting pit with topsoil and native excavated soil. Sod to be delivered fresh (Cut less than 24 hours prior to arriving on site), laid immediately, rolled, and watered thoroughly immediately after planting. Edge of sod at planting beds are to be "V" trenched; see Landscape Details.
- Any existing grass disturbed during construction to be fully removed, regraded and replaced. All tire marks and indentations to be repaired.
- Water thoroughly twice in first 24 hours and apply mulch immediately.
- The Landscape Contractor shall guarantee all plants installed for one full year from date of acceptance by the owner. All plants shall be alive and at a vigorous rate of growth at the end of the guarantee period. The Landscape Contractor shall not be responsible for acts of God or vandalism. See Landscape Specifications for Warranty requirements/expectations.
- Any plant that is determined dead, in an unhealthy, unsightly condition, lost its shape due to dead branches, or other symptoms of poor, non-vigorous growth, shall be replaced by the Landscape Contractor. See Landscape Specifications for warranty requirements/expectations.
- Site to be 100% irrigated in all planting beds and grass area by an automatic underground Irrigation System. Irrigation as-built shall be provided to the Landscape Architect within 24 hours of irrigation install completion.
- Stake all evergreen and deciduous trees as shown in the planting detail and as per the Landscape Specifications.
- Remove stakes and guying from all trees after one year from planting.

**LANDSCAPE REQUIREMENTS**

A. FRONTAGE LANDSCAPE			
<b>REQUIRED</b>	1. (1) tree per 30 LF and (1) shrub per 20 LF of street frontage		
	NW Blue Pkwy: 205 LF / 30 LF x 1 tree	=	7 street trees required
	205 LF / 20 LF x 1 shrub	=	10 shrubs required
	NW Southern Xing: 456 LF / 30 LF x 1 tree	=	15 street trees required
	456 LF / 20 LF x 1 shrub	=	23 shrubs required
<b>PROVIDED</b>	1. NW Blue Pkwy: 3 tree existing, 4 sugar maple	=	7 street trees provided
	56 inkberry, 13 anise	=	69 shrubs provided
	NW Southern Xing: 10 tree existing	=	10 street trees existing
	23 shrubs existing	=	23 shrubs existing
B. INTERIOR LANDSCAPING			
<b>REQUIRED</b>	1. (1) tree and (2) shrubs per 5,000 SF of area excluding building footprint (62,330 SF - 4,477 SF of building) / 5,000 SF x 1 tree	=	12 trees required
	(62,330 SF - 4,477 SF of building) / 5,000 SF x 2 shrubs	=	23 shrubs required
<b>PROVIDED</b>	1. 8 tree existing, 3 honeylocust	=	11 trees provided
	23 shrubs existing	=	23 shrubs existing
C. PARKING LANDSCAPE			
<b>REQUIRED</b>	1. 5% of parking area to be landscape area		
	40,449 SF x 5%	=	2,022 SF of landscape area required
<b>PROVIDED</b>	1. Landscape area	=	2,500 SF of landscape area provided

**PLANT LIST**

Qty	Botanical Name	Common Name	Scheduled Size	Remarks
<b>Trees</b>				
4	Acer saccharum 'Legacy'	Sugar Maple	3" Cal; 12' Hgt.	B & B
3	Gleditsia triacanthos inermis 'Skyline'	Skyline Honeylocust	3" Cal; 12' Hgt.	B & B
<b>Shrubs</b>				
35	Abelia x chinensis 'Rose Creek'	Rose Creek Abelia	3 Gal.	
12	Forsythia x intermedia	Border Forsythia	3 Gal.	
56	Ilex glabra 'Shamrock'	Shamrock Inkberry	3 Gal.	
13	Illicium parviflorum	Yellow Anise	3 Gal.	
<b>Groundcovers</b>				
31	Echinacea purpurea	Purple Coneflower	1 Gal.	Plant 24" O.C.
154	Liriope muscari 'Big Blue'	Big Blue Liriope	1 Gal.	Plant 18" O.C.
<b>Other</b>				
73	Rock Mulch	Rock Mulch	SF.	See Specifications



**IRRIGATION SYSTEM RETROFIT**

- Existing irrigation system shall be retrofitted to include 100% cover to all newly created landscaped areas.
- Sprays and rotors shall be utilized on all sod and seeded areas.
- Drip irrigation shall be utilized on all planting beds, shrubs, trees, and groundcover.
- The Contractor shall be responsible to ensure new and existing irrigation components, and the system as a whole, are in proper working order.
- Add valves, sprays, rotors, drip, and/or replace zones as needed to achieve proper coverage as required.
- Only RainBird products shall be utilized.
- Mainline shall be 1.5" CLS 200 PVC
- Lateral lines shall be 1" CLS 200 PVC
- Rain / freeze sensor shall be installed
- Prior to final completion, the Irrigation Contractor shall perform a walk-thru inspection with the Owner, or Owners Representative.

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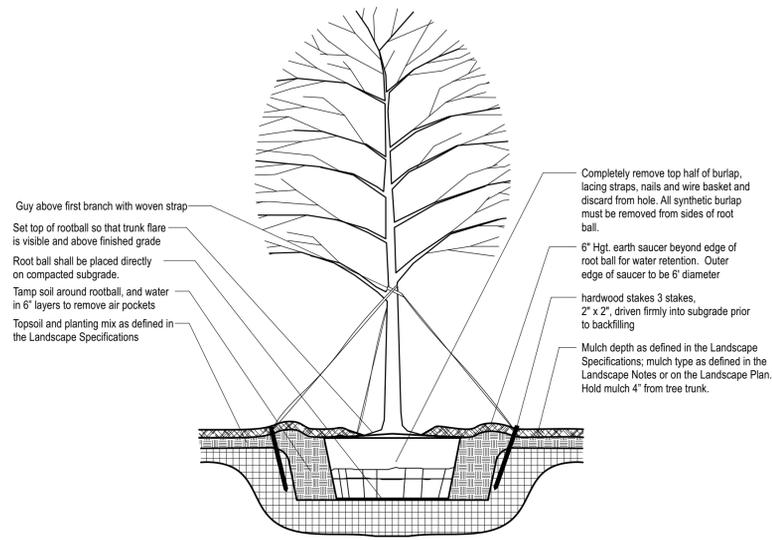
**FSU# 02859**

**REVISION SCHEDULE**

NO.	DATE	BY	DESCRIPTION

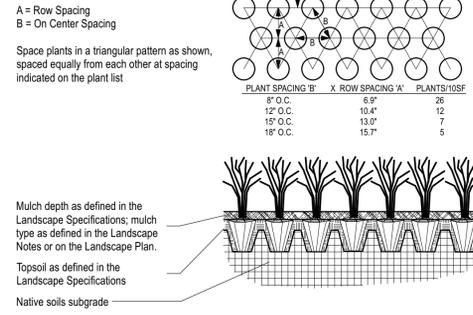
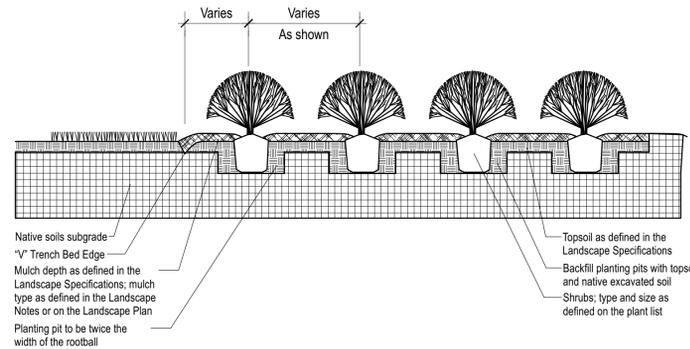
MJD PROJECT # 2023216  
PRINTED FOR PERMIT  
DATE 8/22/23  
DRAWN BY KCN

**PERMIT** Landscape Plan  
SHEET NUMBER **L-100**



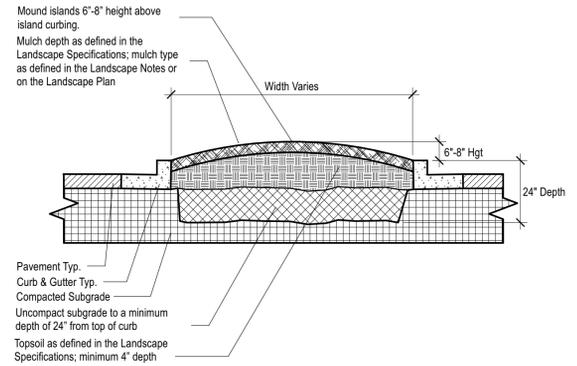
- NOTE**
- Hole to be twice the width of the rootball.
  - Do not heavily prune tree at planting. Prune only crossover limbs, broken or dead branches. Do not remove the terminal buds of branches that extend to the edge of the crown.
  - Each tree must be planted such that the trunk flare is visible at the top of the rootball. Trees where the trunk flare is not visible shall be rejected. Do not cover the top of the rootball with soil. Mulch to be held back 4\"/>

**1 TREE PLANTING & STAKING**  
SCALE: NTS



- NOTE**
- Space groundcover plants in accordance with indicated spacing listed on the plant list, or as shown on the landscape plan.
  - Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants.
  - Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

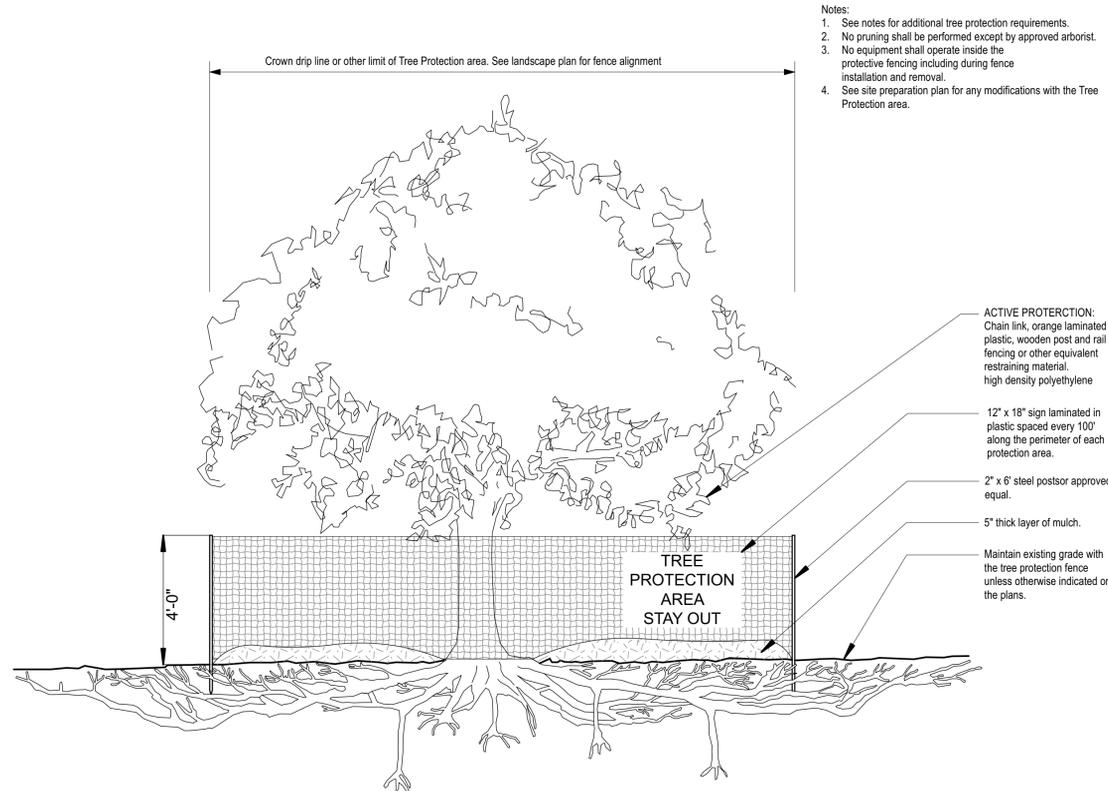
**3 GROUNDCOVER PLANTING DETAIL**  
SCALE: NTS



- NOTE**
- Clean construction debris from within landscape island areas (ie. concrete, rocks, rubble, building materials, ect), prior to installing topsoil and plant material.
  - Fracture/loosen existing subgrade to a minimum 24" depth. Remove and replace any subgrade unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum bermed 6" height above island curbing.
  - Island plant material as per the Landscape Plan.
  - Install plant material as per tree, shrub and ground cover planting details, and as defined in the Landscape Specifications.
  - Install mulch or sod as specified on the Landscape Plan, and as defined in the Landscape Specifications.

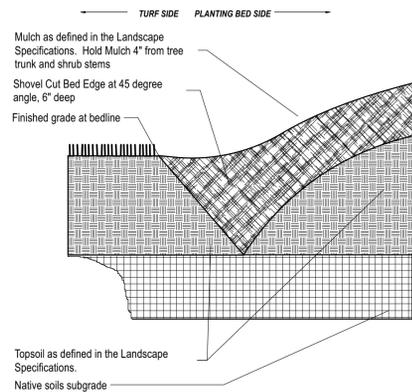
**4 PARKING ISLAND DETAIL**  
SCALE: NTS

**2 SHRUB BED PLANTING DETAIL**  
SCALE: NTS



- Notes:**
- See notes for additional tree protection requirements.
  - No pruning shall be performed except by approved arborist.
  - No equipment shall operate inside the protective fencing including during fence installation and removal.
  - See site preparation plan for any modifications with the Tree Protection area.

**6 TREE PROTECTION FENCING DETAIL**  
SCALE: NTS



**5 \"V\" TRENCH BED EDGING**  
SCALE: NTS



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**FSU# 02859**

**REVISION SCHEDULE**  
NO. DATE BY DESCRIPTION

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DRAWN BY	KCN

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SHEET

**PERMIT** Landscape Details

SHEET NUMBER **L-101**

## LANDSCAPE SPECIFICATIONS

### PART 1 - GENERAL

#### DESCRIPTION

Provide trees, shrubs, ground covers, sod, and annuals/perennials as shown and specified on the landscape plan. The work includes:

1. Soil preparation.
2. Trees, shrubs, ground covers, and annuals/perennials.
3. Planting mixes.
4. Top Soil, Mulch and Planting accessories.
5. Maintenance.
6. Decorative stone.

#### Related Work:

1. Irrigation System.

#### QUALITY ASSURANCE

Plant names indicated, comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.

All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of 2 years.

Nursery Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional cost, and providing that the larger plants will not be cut back to size indicated. Provide plants indicated by two measurements so that only a maximum of 25% are of the minimum size indicated and 75% are of the maximum size indicated.

Before submitting a bid, the Contractor shall have investigated the sources of supply and be satisfied that they can supply the listed plants in the size, variety and quality as specified. Failure to take this precaution will not relieve the Contractor from their responsibility for furnishing and installing all plant materials in strict accordance with the Contract Documents without additional cost to the Owner. The Landscape Architect shall approve any substitutes of plant material, or changes in plant material size, prior to the Landscape Contractor submitting a bid.

#### DELIVER, STORAGE AND HANDLING

Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected. Spray deciduous plants in foliage with an approved "Anti-Desiccant" immediately after digging to prevent dehydration. Dig, pack, transport, and handle plants with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock. Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, wet peat moss, or in a manner acceptable to the Landscape Architect. Water heeled-in plantings daily. No plant shall be bound with rope or wire in a manner that could damage or break the branches. Cover plants transported on open vehicles with a protective covering to prevent wind burn.

#### PROJECT CONDITIONS

Protect existing utilities, paving, and other facilities from damage caused by landscape operations.

A complete list of plants, including a schedule of sizes, quantities, and other requirements are shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.

The irrigation system will be installed prior to planting. Locate, protect and maintain the irrigation system during planting operations. Repair irrigation system components damaged during planting operations; at the Contractor's expense. Refer to the irrigation specifications, irrigation plan and irrigation details.

Do not begin landscape accessory work before completion of final grading or surfacing.

#### WARRANTY

Warrant plant material to remain alive, be healthy and in a vigorous condition for a period of 1 year after completion and final acceptance of entire project.

Replace, in accordance with the drawings and specifications, all plants that are dead or, are in an unhealthy, or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the Contractor's negligence. The cost of such replacement(s) is at the Contractor's expense. Warrant all replacement plants for 1 year after installation.

Warranty shall not include damage, loss of trees, plants, or ground covers caused by fires, floods, freezing rains, lightning storms, winds over 75 miles per hour, winter kill caused by extreme cold, severe winter conditions not typical of planting area, and/or acts of vandalism or negligence on a part of the Owner.

Remove and immediately replace all plants, found to be unsatisfactory during the initial planting installation.

Maintain and protect plant material, lawns, and irrigation until final acceptance is made.

#### ACCEPTANCE

Inspection of planted areas will be made by the Owner's representative.

1. Planted areas will be accepted provided all requirements, including maintenance, have been complied with and plant materials are alive and in a healthy, vigorous condition.

Upon acceptance, the Contractor shall commence the specified plant maintenance.

#### CODES, PERMITS AND FEES

Obtain any necessary permits for this Section of Work and pay any fees required for permits.

The entire installation shall fully comply with all local and state laws and ordinances, and with all established codes applicable thereto; also as depicted on the landscape and irrigation construction set.

### PART 2 - PRODUCTS

#### MATERIALS

Plants: Provide typical of their species or variety; with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sun scald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces. Plants held on storage will be rejected if they show signs of growth during the storage period.

1. Balled and plants wrapped with burlap, to have firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock". Cracked or mushroomed balls, or signs of circling roots are not acceptable.
2. Container- grown stock: Grown in a container for sufficient length of time for the root system to have developed to hold its soil together, firm and whole.
  - a. No plants shall be loose in the container.
  - b. Container stock shall not be pot bound.
  - c. Plants planted in rows shall be matched in form.
4. Plants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.
  - a. If the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.
5. The height of the trees, measured from the crown of the roots to the top of the top branch, shall not be less than the minimum size designated in the plant list.
6. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
7. Evergreen trees shall be branched to the ground or as specified in plant list.
8. Shrubs and small plants shall meet the requirements for spread and height indicated in the plant list.
  - a. The measurements for height shall be taken from the ground level to the height of the top of the plant and not the longest branch.
  - b. Single stemmed or thin plants will not be accepted.
  - c. Side branches shall be generous, well-twigged, and the plant as a whole well-bushed to the ground.
  - d. Plants shall be in a moist, vigorous condition, free from dead wood, bruises, or other root or branch injuries.

#### ACCESSORIES

Topsoil: Shall be Fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well-drained arable site, reasonably free from clay, lumps, coarse sands, stones, roots, sticks, and other foreign materials, with acidity range of between pH 6.0 and 6.8.

Note: All planting areas shall be cleaned of construction debris (ie. Concrete, rubble, stones, building material, etc.) prior to adding and spreading of the top soil.

1. **Sod Areas:** Spread a minimum 4" layer of top soil and rake smooth.
2. **Planting bed areas:** Spread a minimum 4" layer of top soil and rake smooth.

3. **Landscape Islands/Medians:** Fracture/loosen existing subgrade to a minimum 24" depth. Remove and replace any subgrade unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum berm 6"-8" height above island curbing.
4. **Annual/Perennial bed areas:** Add a minimum of 4" organic matter and till to a minimum 12" depth.

Mulch: Type selected dependent on region and availability; see landscape plans for type of much to be used. Hold much 4" from tree trunks and shrub stems.

1. Hardwood: (color) dark brown, 6 month old well rotted double shredded native hardwood bark much not larger than 4" in length and ½" in width, free of wood chips and sawdust. Install minimum depth of 3".
2. Pine Straw: Pine straw to be fresh harvest, free of debris, bright in color. Bales to be wired and tightly bound. Needles to be dry. Install minimum depth of 3".
3. River Rock: (color) light gray to buff to dark brown, washed river rock, 1" – 3" in size. Install in shrub beds to an even depth of 3". Weed control barrier to be installed under all rock mulch areas. Use caution during installation not to damage plant material.
4. Mini Nuggets: Install to a minimum depth of 2"-3" at all locations of annual and perennial beds. Lift the stems and leaves of the annuals and carefully spread the mulch to avoid injuring the plants. Gently brush the mulch off the plants.

#### Guying/Staking:

1. Arbotie: Green (or white) staking and guying material to be flat, woven, polypropylene material, ¾" wide 900 lb. break strength. Arbotie shall be fastened to stakes in a manner which permits tree movement and supports the tree.
2. Remove Guying/Staking after one year from planting.

Tree Wrap: Tree wraps should be used on young, newly planted thin-barked trees (Cherry, Crabapple, Honey Locust, Linden, Maple, Mountain Ash, Plum) that are most susceptible to sun scald/Sunburn. Standard waterproofed tree wrapping paper, 2-1½" wide, made of 2 layers of crepe Draft paper weighing not less than 30 lbs. per ream, cemented together with asphalt. Wrap the tree in the fall and leave the wrap in place throughout the winter and early spring. Tree wraps are temporary and no longer needed once trees develop corky bark.

### PART 3 – EXECUTION

#### INSPECTION

Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve top soil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.

#### PREPARATION

Planting shall be performed only by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.

Locate plants as indicated on the plans or as approved in the field after staking by the Landscape Contractor. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until alternate plant locations have been selected and approved by the Landscape Architect; spacing of plant material shall be as shown on the landscape plan.

Excavate circular plant pits with vertical sides, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 12" greater than the diameter of the root system and 24" greater for trees. Depth of pit shall accommodate the root system. Provide undisturbed sub grade to hold root ball at nursery grade as shown on the drawings.

#### INSTALLATION

Set plant material in the planting pit to proper grade and alignment. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material 2" – 3" above the finish grade. No filling will be permitted around trunks or stems. Backfill the pit with topsoil mix and excavated material. Do not use frozen or muddy mixtures for backfilling. Form a ring of soil around the edge of each planting pit to retain water.

After balled and wrapped in burlap plants are set, muddle planting soil mixture around bases of balls and fill all voids.

1. Remove all burlap, ropes, and wires from the top 1/3 of the root ball

Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

#### Mulching:

1. Mulch tree and shrub planting pits and shrub beds with required mulching material (see landscape plan for mulch type); depth of mulch as noted above. **Hold mulch back 4" away from tree trunks and shrub stems.** Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.

Decorative Stone: (where indicated on landscape plan)

1. Install weed control barrier over sub-grade prior to installing stone. Lap 6" on all sides.
2. Place stone without damaging weed barrier.
3. Arrange stones for best appearance and to cover all weed barrier fabric.

#### Wrapping, guying, staking:

1. Inspect trees for injury to trunks, evidence of insect infestation, and improper pruning before wrapping.
2. Wrapping:
  - a. Wrap trunks of all young newly planted trees known to have thin bark. Wrap spirally from bottom to top with specified tree wrap and secure in place.
  - b. Overlap ½ the width of the tree wrap strip and cover the trunk from the ground to the height of the second branch.
  - c. Secure tree wrap in place with twine wound spirally downward in the opposite direction, tied around the tree in at least 3 places in addition to the top and bottom.
  - d. Wrap the trees in the fall and leave the wrap in place throughout the winter and early spring.
  - e. Tree wraps are temporary and no longer needed once the trees develop corky bark.
3. Staking/Guying:
  - a. Stake/guy all trees immediately after lawn sodding operations and prior to acceptance.
  - b. Stake deciduous trees 2" caliper and less. Stake evergreen trees under 7'-0" tall.
    1. Stakes are placed in line with prevailing wind direction and driven into undisturbed soil.
    2. Ties are attached to the tree, usually at the lowest branch.
  - c. Guy deciduous trees over 2" caliper. Guy evergreen trees 7'-0" tall and over.
    1. Guy wires to be attached to three stakes driven into undisturbed soil, with one stake placed in the direction of the prevailing wind.
    2. Ties are attached to the tree as high as practical.
    3. The axis of the stake should be at 90 degree angle to the axis on the pull of the guy wire.
4. **Remove all guying and staking after one year from planting.**

#### Pruning:

1. Prune deciduous trees and evergreens only to remove broken or damaged branches.

#### WORKMANSHIP

During landscape/irrigation installation operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed in a safe manner to the operators, the occupants and any pedestrians.

Upon completion of installation operations, all excess materials, equipment, debris and waste material shall be cleaned up and removed from the site; unless provisions have been granted by the owner to use on-site trash receptacles. Sweep parking and walks clean of dirt and debris. Remove all plant tags and other debris from lawns and planting areas.

Any damage to the landscape, the structure, or the irrigation system caused by the landscape contractor shall be repaired by the landscape contractor without charge to the owner.

#### MAINTENANCE

Contractor shall provide maintenance until work has been accepted by the Owner's Representative.

Maintenance shall include mowing, fertilizing, mulching, pruning, cultivation, weeding, watering, and application of appropriate insecticides and fungicides necessary to maintain plants and lawns free of insects and disease.

1. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent material and remove dead material.
2. repair guy wires and stakes as required. Remove all stakes and guy wires after 1 year.
3. Correct defective work as soon as possible after deficiencies become apparent and weather and season permit.
4. Water trees, plants and ground cover beds within the first 24 hours of initial planting, and not less than twice per week until final acceptance.

## LANDSCAPE MAINTENANCE SPECIFICATIONS

The Contractor shall provide as a separate bid, maintenance for a period of **1 year** after final acceptance of the project landscaping. The Contractor must be able to provide continued maintenance if requested by the Owner or provide the name of a reputable landscape contractor who can provide maintenance.

#### STANDARDS

All landscape maintenance services shall be performed by trained personnel using current, acceptable horticultural practices.

All work shall be performed in a manner that maintains the original intent of the landscape design.

All chemical applications shall be performed in accordance with current county, state and federal laws, using EPA registered materials and methods of application. These applications shall be performed under the supervision of a Licensed Certified applicator.

#### APPROVALS

Any work performed in addition to that which is outlined in the contract shall only be done upon written approval by the Owner's Representative (General Manager of the restaurant).

All seasonal color selections shall be approved by the General Manager prior to ordering and installation.

#### SOIL TESTING

The maintenance contractor shall perform soil tests as needed to identify imbalances or deficiencies causing plant material decline. The owner shall be notified of the recommendation for approval, and the necessary corrections made at an additional cost to the owner.

#### Acceptable Soil Test Results

	Landscape Trees and Shrubs	Turf
pH Range	5.0-7.0	6.0-7.0
Organic Matter	>1.5%	>2.5%
Magnesium (Mg)	100 lbs./acre	100 lbs./acre
Phosphorus (P2O5)	150 lbs./acre	150 lbs./acre
Potassium (K2O)	120 lbs./acre	120 lbs./acre
Soluble salts	Not to exceed 900ppm/1.9 mmhos/cm in soil; not to exceed 1400 ppm/2.5 mmhos/cm in high organic mix	Not to exceed 750ppm/0.75 mmhos/cm in soil; not to exceed 2000 ppm/2.0 mmhos/cm in high organic mix
Conductivity		

For unusual soil conditions, the following optional tests are recommended with levels not to exceed:

Boron	3 pounds per acre
Manganese	50 pounds per acre
Potassium (K2O)	450 pounds per acre
Sodium	20 pounds per acre

#### WORKMANSHIP

During landscape maintenance operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed in a safe manner to the operators, the occupants and any pedestrians.

Upon completion of maintenance operations, all debris and waste material shall be cleaned up and removed from the site, unless provisions have been granted by the owner to use on-site trash receptacles.

Any damage to the landscape, the structure, or the irrigation system caused by the maintenance contractor, shall be repaired by the maintenance contractor without charge to the owner.

### TURF

#### GENERAL CLEAN UP

Prior to mowing, all trash, sticks, and other unwanted debris shall be removed from lawns, plant beds, and paved areas.

#### MOWING

Warm season grasses (i.e. Bermuda grass) shall be maintained at a height of 1" to 2" during the growing season.

Cool season grasses, including blue grass, tall fescue, perennial ryegrass, etc., shall be maintained at a height of 2" to 3" in spring and fall. From June through September, mowing height shall be maintained at no less than 3".

The mowing operation includes trimming around all obstacles, raking excessive grass clippings and removing debris from walks, curbs and parking areas. Caution: Weed eaters should NOT be used around trees because of potential damage to the bark.

#### EDGING

Edging of all sidewalks, curbs and other paved areas shall be performed once every other mowing. Debris from the edging operations shall be removed and the areas swept clean. Caution shall be used to avoid flying debris.

#### LIMING & FERTILIZING

A soil test shall be taken to determine whether an application of limestone in late fall is necessary. If limestone is required, the landscape contractor shall specify the rate, obtain approval from the owner and apply it at an additional cost. A unit price for liming of turf shall accompany the bid based on a rate of 50 pounds per 1000 square feet.

Fertilizer shall be applied in areas based on the existing turf species.

#### LAWN WEED CONTROL: HERBICIDES

Selection and proper use of herbicides shall be the landscape contractor's responsibility. All chemical applications shall be performed under the supervision of a Licensed Certified Applicator. **Read the label prior to applying any chemical.**

#### INSECT & DISEASE CONTROL FOR TURF

The contractor shall be responsible for monitoring the site conditions on each visit to determine if any insect pest or disease problems exist. The contractor shall identify the insect pest or disease, as well as the host plant, and then consult the most current edition of the Cooperative Extension Service's "Commercial Insecticide Recommendation for Turf" for control. The licensed applicator shall be familiar with the label provided for the selected product prior to application.

Inspection and treatment to control insect pests shall be included in the contract price.

### TREES, SHRUBS, & GROUND COVER

#### PRUNING

All ornamental trees, shrubs and ground cover shall be pruned when appropriate to remove dead or damaged branches, develop the natural shapes. **Do not shear trees or shrubs.** If previous maintenance practice has been to shear and ball, then a natural shape will be restored gradually.

#### Pruning Guidelines:

1. Prune those that flower before the end of June immediately after flowering. Flower buds develop during the previous growing season. Fall, winter or spring pruning would reduce the spring flowering display.
2. Prune those that flower in summer or autumn in winter or spring before new growth begins, since these plants develop flowers on new growth.
3. Delay pruning plants grown for ornamental fruits, such as cotoneasters, pyracanthas and viburnums.
4. Hollies and other evergreens may be pruned during winter in order to use their branches for seasonal decoration. However, severe pruning of evergreens should be done in early spring only.
5. Broadleaf evergreen shrubs shall be hand-pruned to maintain their natural appearance after the new growth hardens off.
6. Hedges or shrubs that require shearing to maintain a formal appearance shall be pruned as required. Dead wood shall be removed from sheared plants before the first shearing of the season.
7. Conifers shall be pruned, if required, according to their genus.
  - A. Yews, junipers, hemlocks, arbutoviae, and false-cypress may be pruned after new growth has hardened off in late summer. If severe pruning is necessary, it must be done in early spring.
  - B. Firs and spruces may be lightly pruned in late summer, fall, or winter after completing growth. Leave side buds. Never cut central leader.
  - C. Pines may be lightly pruned in early June by reducing candles.
8. Groundcover shall be edged and pruned as needed to contain it within its borders.

9. Thinning: Remove branches and water sprouts by cutting them back to their point of origin on parent stems. This method results in a more open plant, without stimulating excessive growth. Thinning is used on crepe myrtle, lilacs, viburnums, smoke bush,etc.
10. Renewal pruning: Remove oldest branches of shrub at ground, leaving the younger, more vigorous branches. Also remove weak stems. On overgrown plants, this method may be best done over a three-year period. Renewal pruning may be used on abelia, forsythia, deutzia, spirea, etc.

Plants overhanging passageways and parking areas and damaged plants shall be pruned as needed.

Shade trees that cannot be adequately pruned from the ground shall not be included in the Maintenance Contract. A certified arborist under a separate contract shall perform this type of work.

#### SPRING CLEANUP

Plant beds shall receive a general cleanup before fertilizing and mulching. Cleanup includes removing debris and trash from beds and cutting back herbaceous perennials left standing through winter, e.g. ornamental grasses, Sedum Autumn Joy.

#### FERTILIZING

For trees, the rate of fertilization depends on the tree species, tree vigor, area available for fertilization, and growth stage of the tree. Mature specimens benefit from fertilization every 3 to 4 years; younger trees shall be fertilized more often during rapid growth stages.

The current recommendation is based on the rate of 1000 square feet of area under the tree to be fertilized. For deciduous trees, 2 to 6 pounds of Nitrogen per 1000 square feet, for narrow-leaf evergreens, 1 to 4 pounds of Nitrogen per 1000 square feet; for broadleaf evergreens, 1 to 3 pounds of Nitrogen per 1000 square feet.

Shrubs and groundcover shall be top-dressed with compost 1" deep, or fertilized once in March with 10-6-4 analysis fertilizer at the rate of 3 pounds per 100 square feet of bed area.

Eccacaceous material shall be fertilized with an eccacaceous fertilizer at the manufacturer's recommendation rate. If plants are growing poorly, a soil sample should be taken.

#### MULCHING

Annually, all tree and shrub beds will be prepared and mulched, to a minimum depth of 3" with quality mulch to match existing. Bed preparation shall include removing all weeds, cleaning up said bed, edging and cultivating decayed mulch into the soil. Debris from edging is to be removed from beds where applicable. If deemed necessary, a pre-emergent herbicide may be applied to the soil to inhibit the growth of future weeds.

Organically maintained gardens shall not receive any pre-emergent herbicides. Mulch in excess of 4" will be removed from the bed areas. SPECIAL CARE shall be taken in the mulching operation not to over-mulch or cover the base of trees and shrubs. This can be detrimental to the health of the plants.

#### WEEDING

All beds shall be weeded on a continuous basis throughout the growing season to maintain a neat appearance at all times.

Pre-emergent (soil-applied) and post-emergent (foliar-applied) herbicides shall be used where and when applicable and in accordance with the product's label.

#### INSECT & DISEASE CONTROL: TREES, SHRUBS & GROUNDCOVER

The maintenance contractor shall be responsible for monitoring the landscape site on a regular basis. The monitoring frequency shall be monthly except for growing season, which will be every other week. Trained personnel shall monitor for plant damaging insect activity, plant pathogenic diseases and potential cultural problems in the landscape. The pest or cultural problem will be identified under the supervision of the contractor.

For plant damaging insects and mites identified in the landscape, the contractor shall consult and follow the recommendations of the most current edition of the state Cooperative Service publication on insect control on landscape plant material.

Plant pathogenic disease problems identified by the contractor that can be resolved by pruning or physical removal of damaged plant parts will be performed as part of the contract. For an additional charge, plant pathogenic diseases that can be resolved through properly timed applications of fungicides shall be made when the owner authorizes it.

If the contractor notes an especially insect-or disease-prone plant species in the landscape, he/she will suggest replacement with a more pest-resistant cultivar or species that is consistent with the intent of the landscape design.

NOTE: For identification of plant-damaging insects and mites, a reference textbook that can be used is *Insects that Feed on Trees and Shrubs* by Johnson and Lyon, Comstock Publishing Associates. For plant pathogenic diseases, two references are suggested: *Scouting and Controlling Woody Ornamental Diseases in Landscapes and Nurseries*, authored by Gary Moorman, published by Penn State College of Agricultural Sciences, and *Diseases of Trees and Shrubs* by Sinclair and Lyon, published by Comstock Publishing Press.

#### TRASH REMOVAL

The maintenance contractor shall remove trash from all shrub and groundcover beds with each visit.

#### LEAF REMOVAL

All fallen leaves shall be removed from the site in November and once in December. If requested by the owner, the maintenance contractor, at an additional cost to the owner shall perform supplemental leaf removals.

#### WINTER CLEAN-UP

The project shall receive a general clean-up once during each of the winter months, i.e., January, February, and March.

#### Clean-up includes:

- Cleaning curbs and parking areas
- Removing all trash and unwanted debris
- Turning mulch where necessary
- Inspection of grounds

### SEASONAL COLOR: PERENNIALS, ANNUALS, AND BULBS

The installation of perennials, annuals, and bulbs, unless specified herein, shall be reviewed with the owner, and, if accepted, installed and billed to the owner.

#### SEASONAL COLOR MAINTENANCE

##### Perennialization of Bulbs:

1. After flowering, cut off spent flower heads.
2. Allow leaves of daffodils and hyacinths to remain for six weeks after flowers have faded. Cut off at base.
3. Allow leaves of other bulbs to yellow naturally and then cut off at base.
4. Apply fertilizer after flowering in spring, possibly again in fall. Apply 10-10-10 at the rate of 2 pounds per 1000 square feet, or top-dress with compost 1" deep. Fall fertilization with a bulb fertilizer or mulching with 1" of compost is optional.

##### Flower Rotation:

1. Bulbs: Remove the entire plant and bulb after flowers have faded or at the direction of the owner, and install new plants if included in contract.
2. Summer Annuals or Fall Plants:
  - a. Dead heading: Pinch and remove dead flowers on annuals as necessary.
  - b. Fertilizing Summer Annuals: Fertilize using one or two methods: Apply a slow-release fertilizer in May following manufacturer's recommendations. A booster such as 10-10-10 may be necessary in late summer. Or, apply liquid fertilizations of 20-20-20 water-soluble fertilizers, not to exceed 2 pounds of 20-20-20 per 100 gallons of water, monthly; or mulch with compost 1" deep.
  - c. Removal: If fall plants are to be installed, summer annuals shall be left in the ground until the first killing frost and then removed, unless otherwise directed by the owner.