STARBUCKS AND FUTURE MEDICAL OFFICE SHELL

155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Reason: release for construction
Date: 2020.08.26 10:42:18-05'00'

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

MIDLAND

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	INSUL	INSULATE
AC	ACOUSTICAL	INT	INTERIOR
A/C	AIR CONDITIONING	JST	JOIST
ALT	ALTERNATE	JT	JOINT
AL	ALUMINUM	JNT	JOINT
ALUM	ALUMINUM	LH	LEFT HAND
AB	ANCHOR BOLT	LF	LINEAL FOOT
ARCH	ARCHITECT(URAL)	LTL	LENGTH
BSMT	BASEMENT	L	LINTEL
BRG	BEARING	LL	LIVE LOAD
BM	BENCH MARK	MFR	MANUFACTURER
BEL	BELOW	MAS	MASONRY
BLK	BLOCK	MO	MASONRY OPENING
BLKG	BLOCKING	MAX	MAXIMUM
BD	BOARD	MECH	MECHANIC(AL)
BW	BOTH WAYS	MED	MEDIUM
BOT	BOTTOM	MBR	MODIFIED BITUMEN ROOFING
BF	BOTTOM OF FOOTING	MET	METAL
BOF	BOTTOM OF FOOTING	MTL	METAL
BRK	BRICK	M	METER(S)
BLDG	BUILDING	MWK	MILLWORK
BUR	BUILT-UP ROOFING	MIN	MINIMUM
CAB	CABINET	MISC	MISCELLANEOUS
CLG	CEILING	MT	MOUNT(ED)(ING)
CL	CENTER LINE	NOM	NOMINAL
C/O	CENTER OF	N	NORTH
CC	CENTER TO CENTER	NIC	NOT IN CONTRACT
CLR	CLEAR	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER(S)
CONC	CONCRETE	OPG	OPENING
CMU	CONCRETE MASONRY UNIT	OPH	OPPOSITE HAND
CONST	CONSTRUCTION	OD	OUTSIDE DIAMETER
CONTR	CONTRACTOR	OO	OUT TO OUT
CONT	CONTINUOUS	OA	OVERALL
CNTR	COUNTER	OH	OVERHEAD
CFL	COUNTER FLASHING	PNT	PAINT(ED)
CISK	COUNTERSUNK	PTD	PAINT(ED)
CRS	COURSE(S)	PKG	PARKING
CF	CUBIC FOOT	PLAM	PLASTIC LAMINATE
CY	CUBIC YARD	PL	PLATE
DL	DEAD LOAD	PWD	PLYWOOD
DEM	DEMOLISH, DEMOLITION	PVC	POLYVINYL CHLORIDE
DTL	DETAIL	PSF	POUNDS PER SQUARE FT.
DIAG	DIAGONAL	PSI	POUNDS PER SQUARE IN.
DIAM	DIAMETER	PT	PRESSURE TREATED
DIM	DIMENSION	PL	PROPERTY LINE
DR	DOOR	REM	REMOVE
DS	DOWN SPOUT	RET	RETURN
D	DRAIN	RH	RIGHT HAND
DWG	DRAWING	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	RFG	ROOFING
E	EAST	RM	ROOM
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RO	ROUGH OPENING
		SNT	SEALANT
ELEC	ELECTRIC(AL)	SLNT	SEALANT
EWC	ELECTRIC WATER COOLER	SEC	SECTION
ELEV	ELEVATION	SECT	SECTION
ELEV	ELEVATOR	SHTHG	SHEATHING
EMER	EMERGENCY	SHT	SHEET
EQ	EQUAL	SIM	SIMILAR
EXIST	EXISTING	SC	SOLID CORE
EXP	EXPOSED	S	SOUTH
EXT	EXTERIOR	SF	SQUARE FOOT
FOF	FACE OF FINISH	SI	SQUARE INCH
FO	FACE OF	SY	SQUARE YARD
FOM	FACE OF MASONRY	STD	STANDARD
FOS	FACE OF STUDS	STO	STORAGE
FIN	FINISH(ED)	SUS	SUSPENDED
FFE	FINISHED FLOOR ELEV.	SYM	SYMMETRY(ICAL)
FFL	FINISHED FLOOR LINE	TEL	TELEPHONE
FE	FIRE EXTINGUISHER	TV	TELEVISION
FEC	FIRE EXTINGUISHER CABINET	THK	THICK(NESS)
FT	FIRE TREATED	T&G	TONGUE & GROOVE
FLG	FLASHING	TM	TOP OF MASONRY
FLR	FLOOR	TOM	TOP OF MASONRY
FD	FLOOR DRAIN	TS	TOP OF STEEL
FTG	FOOTING	TOS	TOP OF STEEL
FDN	FOUNDATION	TW	TOP OF WALL
FNDN	FOUNDATION	TOW	TOP OF WALL
FUR	FURRED(ING)	TYP	TYPICAL
GA	GAGE, GAUGE	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACT(OR)	VERT	VERTICAL
GL	GLASS, GLAZING	VT	VINYL TILE
GP	GYPSUM, GYP, GYPSUM	WSCT	WAINSCOT
GWB	GYPSUM WALL BOARD	WC	WATER CLOSET
HTG	HEATING	WWF	WELDED WIRE FABRIC
HVAC	HEATING/VENTILATING/AIR COND.	W	WEST
HT	HEIGHT	W	WIDTH, WIDE
HC	HOLLOW CORE	WIN	WINDOW
HM	HOLLOW METAL	WO	WITHOUT
HOR	HORIZONTAL	W/O	WITHOUT
HB	HOSE BIBB	WD	WOOD
INS	INSULATE(D)(ION)		

VICINITY MAP

PROJECT SITE
NORTH

GENERAL NOTES

1. THE INFORMATION PROVIDED IN THIS DOCUMENT IS FROM DOCUMENTATION AVAILABLE AND MAY NOT REFLECT EXACT FIELD CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL INFORMATION.
2. ALL CONSTRUCTION SHALL CONFORM TO ALL CURRENT GOVERNING CODES, ALL APPLICABLE ORDINANCES, REGULATIONS, LANDLORD REQUIREMENTS AND THE DRAWINGS.
3. ALL REQUIREMENTS AND REGULATIONS PERTAINING TO THE DISABLED AND OSHA MUST BE INCORPORATED INTO THE WORK WHETHER OR NOT THEY ARE SPECIFICALLY NOTED IN THE DRAWINGS.
4. DETAILS ARE NOT INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BARRIERS, LIGHTING, COVERING, FIRE PREVENTION, NECESSARY FOR THE SAFETY OF ALL PERSONNEL AND THE PROPERTY THROUGHOUT THE ENTIRE PERIOD OF CONSTRUCTION.
6. ALL MATERIALS AND WORK PERFORMED MUST BE IN STRICT ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF ALL LOCAL, CITY, COUNTY, STATE, AND FEDERAL ORGANIZATIONS HAVING JURISDICTION.
7. CONTACT CITY BUILDING DEPARTMENT FOR ALL INSPECTIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITY LINES AND INTERCEPT AS REQUIRED.
9. FLAMESPREAD FOR THE FINISH MATERIAL FOR INTERIOR WALLS AND CEILINGS SHALL COMPLY WITH THE LOCAL BUILDING CODE.
10. COMBUSTIBLE INTERIOR FINISH PRODUCTS SHALL BE PROVIDED PER THE REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE LOCAL BUILDING CODE, THAT THE PROJECT IS BEING PERMITTED UNDER.
11. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE CLEAN-UP OF THE BUILDING FOR THEIR RESPECTIVE TRADE AT THE COMPLETION OF WORK EACH DAY. AT ALL TIMES REMOVE WASTE MATERIAL, TRASH AND DEBRIS AND LEGALLY DISPOSE OF.
12. GENERAL CONTRACTOR SHALL VISIT THE SITE, REVIEW THE BUILDING SHELL DRAWINGS AS SUBMITTED BY THE LANDLORD OR STARBUCKS SITE SURVEYOR, AND BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION.
13. GENERAL CONTRACTOR SHALL CONSULT WITH OWNER'S CONSTRUCTION MANAGER TO RESOLVE ANY CHANGES, OMISSIONS, OR PLAN DISCREPANCIES PRIOR TO BIDDING OR CONSTRUCTION.
14. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL CODES AND ORDINANCES.
15. GENERAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES.
16. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES, AND NOTIFY OWNER'S CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE TO THE FACE OF THE FINISHED SURFACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE TAKEN FROM DESIGNATED DATUM POINT. DO NOT SCALE DRAWINGS.
17. GENERAL CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS, OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF THE WORK.
18. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS PRIOR TO INSTALLATION OF SUCH SYSTEMS.
19. GENERAL CONTRACTOR SHALL RETAIN ONE SET OF THE PLANS TO NOTE AND DOCUMENT ALL CHANGES DURING CONSTRUCTION. THIS SET SHALL BE A PART OF THE GENERAL CONTRACTOR'S "STORE CLOSE-OUT PACKAGE" AS DESCRIBED IN THE CONSTRUCTION MANAGEMENT AGREEMENT.
20. FOR THE PURPOSE OF THE DOCUMENTS, TO "INSTALL", SHALL MEAN TO PROVIDE ALL FASTENERS, MISCELLANEOUS HARDWARE, BLOCKING, ELECTRICAL CONNECTIONS, PLUMBING CONNECTIONS, AND OTHER ITEMS REQUIRED FOR A COMPLETE AND OPERATION INSTALLATION, UNLESS OTHERWISE NOTED.
21. ALL ITEM SUBSTITUTIONS MUST BE APPROVED BY THE OWNER'S CONSTRUCTION MANAGER.
22. REFER TO ITEM CUT SHEETS FOR ADDITIONAL INFORMATION.
23. SUBCONTRACTORS, SUPPLIERS, AND VENDORS MUST INCLUDE ALL APPROPRIATE SALES TAXES WITHIN THEIR BID PRICING, NO EXCEPTIONS.

CODE DATA SUMMARY

GOVERNING BUILDING CODES:	
BUILDING:	2018 INTERNATIONAL BUILDING CODE
MECHANICAL:	2018 INTERNATIONAL MECHANICAL CODE
ELECTRICAL:	2017 NATIONAL ELECTRIC CODE
PLUMBING:	2018 INTERNATIONAL PLUMBING CODE
GAS:	2018 INTERNATIONAL FUEL AND GAS CODE
ACCESSIBILITY:	ICC/ANSI A117.1-2017
FIRE:	2018 INTERNATIONAL FIRE CODE
BUILDING DATA:	
CONSTRUCTION TYPE:	V-B UNPROTECTED
SPRINKLERED:	NO
USE GROUP:	B - BUSINESS
TOTAL SQUARE FEET:	4,785
LL UTILITY ROOM:	82
INTERSTITIAL SPACE:	273
STARBUCKS SHELL:	2,114
OCCUPANT LOAD*:	69 INTERIOR OCC. AND 28 EXTERIOR OCC. = 97 OCC. x 0.2" = 18" REQUIRED EGRESS WIDTH
TENANT SHELL:	2,316
OCCUPANT LOAD:	24 INTERIOR OCC. x 0.2" = 5" REQUIRED EGRESS WIDTH

*OCCUPANT LOAD BASED ON PRELIMINARY INTERIOR IMPROVEMENT PLAN PROVIDED BY TENANT

PROJECT SCOPE

MODIFICATION OF AN EXISTING BUSINESS OCCUPANCY TO PROVIDE A COLD/DARK SHELL TO BE DEMISED INTO A SHELL FOR STARBUCKS COFFEE AND AN ADJACENT MEDICAL OFFICE SPACE.

WORK SHALL INCLUDE EXTERIOR MODIFICATIONS, INCLUDING NEW FINISHES , ALUMINUM STOREFRONT AND NEW H.M. MAN DOORS, A PATIO AREA, EXTERIOR ELECTRICAL EQUIPMENT, FOUNDATIONS AND ELECTRICAL ROUGH-INS FOR EXTERIOR DRIVE-THRU EQUIPMENT, MINIMAL EXTERIOR LIGHTING, ROUGH-INS FOR ADDITIONAL EXTERIOR POWER, LIGHTING AND SIGNAGE (FOR FUTURE STARBUCKS), AND INTERIOR PLUMBING ROUGH-INS.

MOLD AND MILDEW NOTES

THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL NEW AND REMODEL CONSTRUCTION PROJECTS.

1. IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME DURING DEMOLITION, CONSTRUCTION, AND/OR REMODELING OPERATIONS, EXISTING CONDITIONS THAT COULD INCLUDE THE PRESENCE OF MOLD AND/OR MILDEW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE ARCHITECT/ENGINEER OF RECORD, IN WRITING, OF THE CONCERNS AND/OR SUSPICIONS.
2. CONCURRENTLY, THE CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN A MOLD AND MILDEW CERTIFIED TESTING AGENCY TO PERFORM AN INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF THE TESTING AGENCY CONFIRMS HAZARDS, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A MINIMUM OF TWO (2) BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM ALL NECESSARY REMEDIATION WORK, COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS, CODES, AND STATUTES.
3. ONCE DISCOVERY OR SUSPICION OF MOLD AND/OR MILDEW IS MADE, THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICAL PRECAUTIONS TO PROTECT ALL CONSTRUCTION PERSONNEL AND THE PUBLIC FROM EXPOSURE TO MOLD AND/OR MILDEW, AND SUCH PRECAUTIONS SHALL REMAIN IN PLACE UNTIL SUCH TIME AS THE OWNER OR HEALTH AUTHORITY DIRECTS OTHERWISE. CONSTRUCTION OPERATIONS SHALL NOT BE STOPPED OR CURTAILED, EXCEPT IN THE AREA OF MOLD/MILDEW CONCERN, DUE TO THESE REQUIRED PRECAUTIONS.
4. THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO AVOID CONDITIONS FAVORABLE TO THE DEVELOPMENT OF MOLD AND MILDEW, ESPECIALLY IN VOIDS WHICH WILL BE CONCEALED AND NOT VENTILATED. IN ALL CASES, INTERIOR SPACES AND INTERIOR FINISHED CONSTRUCTION SHALL BE MAINTAINED IN DRY AND WELL-VENTILATED CONDITIONS.
5. THE CONTRACTOR SHALL COMPLY WITH FEDERAL ENVIRONMENTAL AND OHSA REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND RECOMMENDATIONS REGARDING MOLD AND MILDEW. ALL PENETRATIONS SHALL BE SEALED WATER-TIGHT TO PREVENT MOISTURE MIGRATION FROM ENTERING THE BUILDING OR WALL CAVITIES.
6. ALL CONDENSATE DRAIN PANS SHALL BE CLEANED AND KEPT FREE FROM DEBRIS UNTIL AND WHEN THE FACILITY IS TURNED OVER TO THE OWNER OR TENANT. INSURE POSITIVE DRAINAGE AT ALL DRAIN PANS. INSURE THAT ALL "COLD" SURFACES ARE INSULATED AND COVERED WITH A FULLY SEALED AND CONTINUOUS VAPOR BARRIER. ("COLD" SURFACES INCLUDE, BUT ARE NOT LIMITED TO, DOMESTIC COLD WATER PIPING, CHILLED WATER PIPING, INTERIOR RAIN LEADERS, OUTDOOR AIR INTAKES, AND DUCTWORK CARRYING AIR CONDITIONED SUPPLY AIR.)
7. INSURE THAT THERE ARE NO WATER LEAKS IN CONCEALED PLUMBING CHASES. RETURN AIR PATHS AND PLENUMS SHALL BE KEPT DRY. ALL EXISTING SUPPLY AIR PATHS AND ALL EXISTING DUCTWORK TO BE RE-USED SHALL BE CLEANED AND TREATED AS REQUIRED TO REMOVE THE POTENTIAL FOR MOLD AND MILDEW. ALL DAMP AREAS SHALL BE DRIED THOROUGHLY PRIOR TO ENCLOSURE.

E.I.F.S. NOTES

E.I.F.S. NOTES: THE DETAILS SHOWN HEREON REPRESENT THE MINIMUM INSTALLATION REQUIREMENTS FOR THE DRAINABLE EXTERIOR INSULATED FINISH SYSTEM (E.I.F.S.). THE CONTRACTOR SHALL USE MANUFACTURER'S CERTIFIED INSTALLERS AND SHALL INSTALL THIS SYSTEM IN STRICT ACCORDANCE WITH THE SPECIFIC MANUFACTURER'S REQUIREMENTS, RECOMMENDED DETAILS AND PROCESSES, COMPLETE WITH ALL MEMBRANES, DETAILS AND ACCESSORIES NECESSARY TO PROVIDE A WARRANTED WATER TIGHT ENCLOSURE TO THE BUILDING IN THE AREAS APPLIED. IN THE CASE OF A CONFLICT BETWEEN ANY OF THE DETAILS SHOWN ON THESE DRAWINGS AND THE MANUFACTURER'S DETAILS OR REQUIREMENTS, THE MANUFACTURER'S DETAILS AND REQUIREMENTS SHALL GOVERN AND THE ARCHITECT SHALL BE NOTIFIED IN WRITING OF SUCH CONFLICT.

THIS SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE ASTM STANDARDS AND BUILDING CODE REQUIREMENTS EFFECTING THE SYSTEM.

DRAWING INDEX

DEFERRED SUBMITTAL NOTES

1. EXTERIOR SIGNAGE (NOT SHOWN ON DRAWINGS) IS BY OTHERS AND WILL BE APPLIED FOR UNDER A SEPARATE PERMIT.

PROJECT DIRECTORY

BUILDING DEPARTMENT

CITY OF LEE'S SUMMIT
DEVELOPMENT SERVICES
MIKE WEISENBORN - PROJECT MANAGER
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
(816) 969-1240
Mike.weisenborn@cityofLS.net

GENERAL CONTRACTOR

MIDLAND GENERAL CONTRACTORS, INC.
716 WINDSOR ROAD
LOVES PARK, IL 61111
CONTACT: BRENT JOHNSON
TEL: (815) 988-9600
EMAIL: brent@midlandgeneralcontractors.com

ARCHITECT, STRUCTURAL & M.E.P. ENGINEERS:

CASCO
12 SUNNEN DR., SUITE 100,
ST. LOUIS, MO 63143
CONTACT: STEVE DAHMS
TEL: 314-821-1100
EMAIL: steve_dahms@cascocorp.com

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
1	OWNER REVISION 3	07/20/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER
A-2004011669
ARCHITECT
8/20/20

PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By:	MS/MSD
Project Number	320488
Permit Date	06-17-20

TITLE SHEET

T1.0

BUILDING RENOVATION

LOT 1, RAINTREE 150 CENTER
A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI,
AS SHOWN ON PLAT ENTITLED MINOR PLAT OF RAINTREE 150 CENTER,
RECORDED APRIL 21, 2004 IN PLAT BOOK 181, PAGE 12 OF THE
JACKSON COUNTY, MISSOURI RECORDER OF DEEDS OFFICE

FINAL DEVELOPMENT PLAN

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/25/2020

CASCO CIVIL
A CASCO Diversified Corporation Company
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

BUILDING RENOVATION
155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

CONSTRUCTION NOTES

GRADING:
1. ALL CONTOURS SHOWN ON THESE PLANS ARE BASED ON U.S.G.S. DATA.
2. ALL GRADING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE GRADE TO THE DESIGN ELEVATIONS.
4. NO SLOPES SHALL BE GRADED STEEPER THAN 3:1 (HORIZONTAL : VERTICAL), AND SHALL BE SEEDED AND MULCHED.
5. ONLY THE DESIGNATED CONSTRUCTION ACCESS ROUTE MAY BE USED TO MOVE EQUIPMENT IN AND OUT. NO OTHER ACCESS POINT WILL BE PERMITTED.
6. ALL SILTATION MEASURES MUST BE IN PLACE BEFORE ANY OPERATIONS THAT DISTURB THE NATURAL GRADE COMMENCES. THIS INCLUDES GRUBBING OR STUMP REMOVAL. THE CITY OF LEE'S SUMMIT SHALL BE NOTIFIED UPON COMPLETION OF ALL SILTATION AND EROSION FACILITIES AND SHALL INSPECT AND APPROVE SUCH FACILITIES PRIOR TO THE COMMENCEMENT OF ANY CLEARING OR GRADING ACTIVITIES.
7. SILTATION AND CONTROL FACILITIES MUST BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. THIS INCLUDES REMOVAL OF MUD FROM SILTATION BASINS AND REPLACEMENT OF THE CITY OF LEE'S SUMMIT APPROVED EROSION CONTROL DEVICES. MUD SHALL NOT BE PERMITTED TO MIGRATE OFF THE SITE. DAMAGE OR FAILURE OF SILTATION AND EROSION CONTROL FACILITIES SHALL BE REPAIRED. DAMAGE OR FAILURE OF SILTATION AND EROSION CONTROL FACILITIES SHALL BE REPAIRED IMMEDIATELY BUT NOT LONGER THAN 24 HOURS AFTER NOTIFICATION. IF PROPOSED MEASURES FAIL TO ADEQUATELY PROTECT THE ADJOINING PROPERTY ADDITIONAL FACILITIES SHALL BE INSTALLED AS DIRECTED.
8. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR TO PROTECT OFF-SITE PROPERTY FROM EROSION OR SILTATION. THE ENGINEER SHALL NOT BE LIABLE FOR DAMAGE CAUSED BY EROSION OR SILTATION DUE TO DEFECTIVE SILTATION CONTROL DEVICES.
9. MUD WILL NOT BE PERMITTED TO BE CARRIED OFF SITE ONTO PUBLIC STREETS. A TEMPORARY WASH FACILITY SHALL BE PROVIDED TO REMOVE MUD FROM VEHICLE TIRES BEFORE ENTERING THE PUBLIC STREETS.
10. MEASURES SHALL BE TAKEN TO CONTROL DUST AS NECESSARY.
11. IT SHALL BE THE GRADING CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE SOILS ENGINEER OF WORK IN PROGRESS AND TO COMPLY WITH SPECIFICATIONS SET BY THE SOILS ENGINEER WITH REGARD TO COMPACTION, SURFACE PREPARATION AND PLACEMENT OF FILL.
12. ALL STUMPS, LIMBS, AND OTHER DEBRIS ARE TO BE REMOVED FROM THE SITE.
13. ALL DRAINAGE SWALES SHALL BE SODDED.
14. ALL FILL AREAS, INCLUDING TRENCH BACKFILLS, UNDER BUILDINGS, PROPOSED STORM AND SANITARY SEWER LINES, PUBLIC RIGHT OF WAY AND PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHO T-180 COMPACTION TEST", (A.S.T.M. D- 1557) UNLESS OTHERWISE REQUIRED IN THE SOILS REPORT FOR THIS PROJECT.

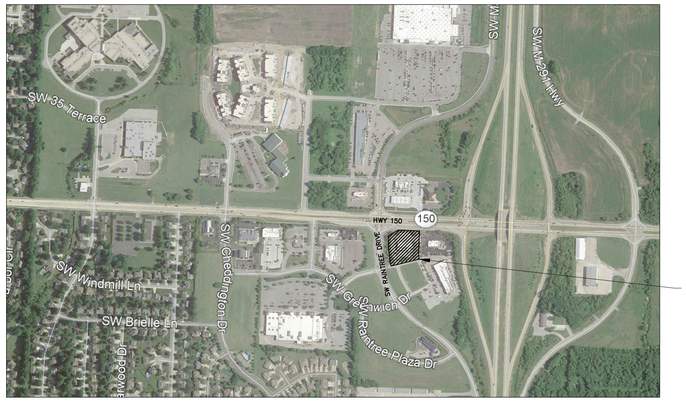
TABLE OF ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS USED

AI	AREA INLET	N	NORTH
ASPH	ASPHALT	NE	NORTHEAST
ATG	ADJUST TO GRADE	NW	NORTHWEST
BC	BOTTOM OF CURB ELEVATION	PB	PLAT BOOK
BFP	BACKFLOW PREVENTER	PERM	PERMANENT
BLDG	BUILDING	PG	PAGE
BM	BENCHMARK	PGS	PAGES
BOT	BOTTOM	PL	PROPERTY LINE
BS	BOTTOM OF SLOPE ELEVATION	PR	PROPOSED
BW	BOTTOM OF WALL ELEVATION	PVC	POLYVINYL CHLORIDE
CI	CURB INLET	PVMT	PAVEMENT
CMP	CORRUGATED METAL PIPE	R	RADIUS
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	REC	RECORD
DB	DEED BOOK	ROW	RIGHT OF WAY
DIP	DUCTILE IRON PIPE	R/W	RIGHT OF WAY
DS	DOWNSPOUT	S	SOUTH
E	EAST	SE	SOUTHEAST
ELEV	ELEVATION	SF	SQUARE FEET
EM	ELECTRIC METER	SURV	SURVEY
EOP	EDGE OF PAVEMENT	SW	SOUTHWEST
ESMT	EASEMENT	TBR	TO BE REMOVED
EX	EXISTING	TC	TOP OF CURB ELEVATION
FF	FINISHED FLOOR ELEVATION	TFP	TRANSFORMER PAD
FL	FLOW LINE ELEVATION	TS	TOP OF SLOPE ELEVATION
FO	FIBER OPTIC	TW	TOP OF WALL ELEVATION
GEN	GENERATOR	TYP	TYPICAL
GTI	GRATE TOP INLET	UGFO	UNDERGROUND FIBER OPTIC LINE
HC	HANDICAPPED	UIP	USE IN PLACE
HHE	ELECTRIC HAND HOLE	VCP	VITRIFIED CLAY PIPE
HHTS	TRAFFIC SIGNAL HAND HOLE	W	WEST
HHSL	SIGNAL LIGHT HAND HOLE		
ICVR	IRRIGATION CONTROL VALVE RECLAIMED		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MSD	METROPOLITAN ST. LOUIS SEWER DISTRICT		

GENERAL NOTES

1. THE SITEWORK ON THIS PROJECT SHALL MEET OR EXCEED ALL STANDARDS AND SPECIFICATIONS REQUIRED BY THE CITY OF LEE'S SUMMIT.
2. CASCO DIVERSIFIED CORPORATION HAS NOT PERFORMED ANY INVESTIGATION REGARDING UNDERGROUND CONDITIONS, HAZARDOUS WASTES, OR UTILITIES AFFECTING THE SITE SHOWN HEREIN.
3. ALL DIMENSIONS ARE FROM THE FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL DISTURBED AREAS OUTSIDE OF PAVEMENT AND BUILDING PAD AREAS SHALL RECEIVE 4" OF SUITABLE TOPSOIL. CONTRACTOR SHALL SEED, MULCH, FERTILIZE AND MAINTAIN ALL DISTURBED AREAS OUTSIDE OF PAVEMENT UNTIL SUFFICIENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED PER THE SWPPP. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED TO ESTABLISH PERMANENT SOIL STABILIZATION.
5. ALL SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED PROFESSIONAL SURVEYOR IN THE STATE OF MISSOURI AT THE CONTRACTOR'S OWN EXPENSE.
6. ALL TRENCHES EXCAVATED UNDERNEATH AREAS TO BE PAVED SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL AND COMPACTED TO MEET REQUIREMENTS OF THE GEOTECHNICAL REPORT AND CITY OF LEE'S SUMMIT REQUIREMENTS.
7. CONTRACTOR SHALL INSTALL ALL UNDERGROUND PIPING AND CONDUITS PER THE REQUIREMENTS OF THE RESPECTIVE MANUFACTURERS AND THE CITY OF LEE'S SUMMIT.
8. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, NEITHER THE OWNER NOR THE ENGINEER WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL SAFETY MEASURES AND REGULATIONS. CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS AND SAFETY MEETING REQUIREMENTS. THE CONTRACTOR SHALL BE COMPLETELY AND SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PROPERTY AND PERSONS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING, AND IMPLEMENTING ALL SAFETY DEVICES AND PRACTICES DURING CONSTRUCTION.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK. CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. CONTRACTOR SHALL REPLACE OR RESTORE TO EQUAL OR BETTER CONDITION THAN THE ORIGINAL CONDITION AT THE CONTRACTOR'S OWN EXPENSE, ALL IMPROVEMENTS WITHIN OR ADJACENT TO THE AREA OF WORK WHICH ARE NOT DESIGNATED FOR REMOVAL OR ADJUSTMENT AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S ACTIONS.
10. CONTRACTOR SHALL CONTINUALLY MONITOR JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT THAN THAT SHOWN ON ON THE PLANS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING PRESENCE AND LOCATIONS (VERTICALLY AND HORIZONTALLY) OF ALL UTILITIES. IN NO WAY DOES THE ENGINEER OR THE OWNER SUGGEST, IMPLY, OR CONFIRM THAT UTILITIES SHOWN ARE INCLUSIVE OF ALL UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING IN PLACE ALL UTILITIES. ANY DAMAGE OR LOSS TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD ANY DAMAGE OCCUR AS A RESULT OF THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL REPLACE OR REPAIR THE DAMAGES TO THE FULL SATISFACTION OF THE UTILITY OWNER AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR SHALL AGREE TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND THE ENGINEER FROM ANY AND ALL DAMAGES OR LOSS.



PERTINENT INFORMATION

PROPERTY ADDRESS:	155 SW M-150 HIGHWAY
ZIP CODE:	64082
MUNICIPALITY:	CITY OF LEE'S SUMMIT
STATE:	MISSOURI
TOTAL SITE AREA:	1.405 ACRES (61,187± SF)
AREA OF DISTURBANCE:	0.499 ACRES (21,741± SF)
CURRENT ZONING:	CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
INTENDED USE:	CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
PARCEL ID:	70-820-03-02-00-0-00-000

SHEET INDEX

CONSTRUCTION NOTE

ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL

LAND DISTURBANCE NOTE

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTORS 48 HOURS PRIOR TO ANY LAND DISTURBANCE WORK: (816) 969-1200

FLOOD ZONE NOTE

ACCORDING TO THE FIRM FLOOD INSURANCE RATE MAP 29095C0532G DATED JANUARY 20, 2017, THIS DEVELOPMENT IS LOCATED IN FLOOD ZONE X. FLOOD ZONE X IS DETERMINED TO BE AN AREA OF MINIMAL FLOOD HAZARD, OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD HAZARD.

TITLE DESCRIPTION

LOT 1, RAINTREE 150 CENTER, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, AS SHOWN ON PLAT ENTITLED MINOR PLAT OF RAINTREE, 150 CENTER, RECORDED APRIL 21, 2004 IN PLAT BOOK 181, PAGE 12 OF THE JACKSON COUNTY, MISSOURI RECORDER OF DEEDS OFFICE.

THIS SURVEY AND LEGAL DESCRIPTION ARE THE SAME AS THAT SHOWN ON A TITLE REPORT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NO.: NCS-401470620A-NC, FIRST AMENDMENT, EFFECTIVE DATE. EFFECTIVE DATE: JUNE 26, 2019.

SIGN NOTE

ALL PROPOSED SIGNS SHALL COMPLY WITH THE UDO REQUIREMENTS, AND SIGNS WILL BE APPROVED BY SEPARATE APPLICATION.

OIL AND GAS NOTE

THERE ARE NO OIL AND/OR GAS WELLS PRESENT WITHIN THE SUBJECT PROPERTY PER THE ENVIRONMENTAL REPORT PREPARED BY SOLID GROUND ENVIRONMENTAL DATED MAY 12, 2020.

SURVEY NOTE

THE TOPOGRAPHIC INFORMATION IN THIS PLAN SET IS BASED OFF A SURVEY PROVIDED BY AYLETT SURVEYING & ENGINEERING ON MAY 13, 2020 AND A BOUNDARY SURVEY PROVIDED BY COMMERCIAL DUE DILIGENCE SERVICES ON MARCH 25, 2020.

ACTUAL FIELD CONDITIONS ARE TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.

LEGEND OF SYMBOLS

EXISTING		PROPOSED
	UTILITY POLE	
	GUY WIRE	
	TREE	
OHE	ELECTRIC LINE (OVERHEAD)	OHE
T	TELEPHONE LINE (OVERHEAD)	T
UGE	ELECTRIC LINE (UNDERGROUND)	UGE
FO	FIBER OPTIC CABLE	FO
T	TELEPHONE LINE (UNDERGROUND)	T
W	WATER LINE	W
G	GAS LINE	G
CA	CABLE LINE	CA
SAN	SANITARY LINE	SAN
ST	STORM LINE	ST
FM	FORCE MAIN	FM
D	MANHOLE WITH STORM SEWER	D
	INLET WITH MANHOLE COVER	
	GRATE TOP INLET	
S	MANHOLE WITH SANITARY SEWER	S
3	STORM STRUCTURE NUMBER	3
3	SANITARY STRUCTURE NUMBER	3
	LIGHT	
	FIRE HYDRANT	
GS	GAS VALVE	GS
GM	GAS METER	GM
CO	CLEAN OUT	CO
WV	WATER VALVE	WV
WM	WATER METER	WM
565	CONTOUR	565
565.19	SPOT ELEVATION	565.19
TC 565.19	SPOT ELEVATION AT TOP OF CURB	TC 565.19
BC 565.19	SPOT ELEVATION AT BOTTOM OF CURB	BC 565.19
FL 565.19	SPOT ELEVATION AT FLOWLINE OF GUTTER	FL 565.19
TW 565.19	SPOT ELEVATION AT TOP OF WALL	TW 565.19
BW 565.19	SPOT ELEVATION AT BOTTOM OF WALL	BW 565.19
TB 565.19	SPOT ELEVATION AT TOP OF BANK	TB 565.19
BB 565.19	SPOT ELEVATION AT BOTTOM OF BANK	BB 565.19
	STREET SIGN	
	FENCE	

PROJECT CONTACTS

DEVELOPERS:
EQUITY
4653 TRUEMAN BOULEVARD
HILLIARD, OH 43026
(614) 586-3303
NPALMER@EQUITY.NET

MIDLAND PROPERTIES OF ILLINOIS, LLC
716 WINDSOR ROAD
LOVES PARK, IL 61111
(815) 988-9600
BRENT@MIDLANDGENERALCONTRACTORS.COM

BUILDING DESIGN:
CASCO DIVERSIFIED CORPORATION
12 SUNNEN DR. SUITE 100
ST. LOUIS, MO 63143
(314) 821-1100

CIVIL ENGINEER:
CASCO CIVIL
12 SUNNEN DR. SUITE 100
ST. LOUIS, MO 63143
(314) 821-1100
TOM.BUERK@CASCOCORP.COM

ELECTRIC:
KANSAS CITY POWER & LIGHT
(888) 471-5275

STORM:
LEE'S SUMMIT PUBLIC WORKS
220 SE GREEN
LEE'S SUMMIT, MO 64063
(816) 969-1800

GAS:
SPIRE
(816) 756-5252

SANITARY & WATER:
LEE'S SUMMIT WATER UTILITIES
12 SE HAMBLEN ROAD
LEE'S SUMMIT, MO 64081
(816) 969-1900

FIRE DEPARTMENT:
LEE'S SUMMIT FIRE STATION 5
3650 SW WINDEMERE ROAD
LEE'S SUMMIT, MO 64062
PHONE

CONSTR. DOC. & REVISIONS

No.	Description	Date
DP	Development Plan Response	06-17-20
CC	City Comments	06-30-20
DP2	Development Plan Response 2	07-15-20
O3	Owner Revision 3	07-20-20
4	Clarification	07-31-20
6	Owner Revision	08-20-20

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21

STATE OF MISSOURI
THOMAS E. BUERK III
NUMBER PE-2018000174
PROFESSIONAL ENGINEER

08-20-20

PROFESSIONAL OF RECORD
Buerk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

Drawn By/Checked By:	MEB/TEB
Project Number	320488
Permit Date	06-17-20

CALL BEFORE YOU DIG – DRILL – BLAST
1-800-344-7483
MISSOURI ONE-CALL SYSTEM, INC.

COVER

C0.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/25/2020

CASCO CIVIL
A CASCO Diversified Corporation Company
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

BUILDING RENOVATION
155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

N

0 10' 20' 40'
SCALE: 1" = 20'

SW HIGHWAY 150
VARIABLE WIDTH PUBLIC RIGHT OF WAY

THE RIGHT-OF-WAY LINE AND THE PROPERTY LINE ARE ONE IN THE SAME.

S 87°35'15" E 169.28' (R,M)

S 87°35'15" E 176.85' (R,M)

N 81°56'51" E 92.47' (R,M)

EX. MONUMENT SIGN TO BE REFACED

EX. SIGN TO BE REMOVED

15' SETBACK LINE PER ZONING

20' PARKING SETBACK

15' SETBACK LINE DOC. #2004100537146

20' PARKING SETBACK

N 00°27'19" W 39.23' (R,M)

N 00°27'07" W 50.25' (R,M)

EX. SIGN TO BE REMOVED

SAW CUT FULL DEPTH AT NEAREST CONCRETE JOINT

EX. CONCRETE PAVEMENT TO BE REMOVED

EX. "DO NOT ENTER" SIGNS TO REMAIN

EX. 6" VERTICAL CURB AND GUTTER TO BE REMOVED AND REPLACED

SAWCUT FULL DEPTH

EX. SIGN TO BE REMOVED

EX. SIDEWALK TO BE REMOVED AND REPLACED

EX. CONCRETE PAVEMENT, CONCRETE ISLANDS, ATM, AND BOLLARDS TO BE REMOVED

EX. CONCRETE CURB AND SIDEWALK TO REMAIN

155 SW HIGHWAY 150
1 STORY BRICK BUILDING
5,157± = SQUARE FEET
HEIGHT = 20.8'
EX. FFE = 1002.23

EX. GRATE INLET TO REMAIN

EX. 6" VERTICAL CURB TO BE REMOVED

EX. TRANSFORMER TO REMAIN

EX. SIDEWALK TO BE REMOVED

DRIVE THROUGH AREA

EX. BUILDING OVERHANG TO BE REMOVED

S 02°20'17" W 171.98' (R,M)
BASIS OF BEARING

EX. 6" VERTICAL CURB AND GUTTER TO REMAIN

EX. 6" VERTICAL CURB AND GUTTER TO BE REMOVED

SAW CUT FULL DEPTH AT NEAREST CONCRETE JOINT

EX. SIGN TO BE REMOVED

N 05°40'43" W 118.58' (R,M)

THE RIGHT-OF-WAY LINE AND THE PROPERTY LINE ARE ONE IN THE SAME.

RAINTREE DRIVE
VARIABLE WIDTH PUBLIC RIGHT OF WAY

15' ELECTRIC ESMT DOC. #1999100636892

10' SETBACK LINE PER BUILDING SETBACK DOC. #2004100537146

20' PARKING SETBACK

EX. LIGHT TO BE REMOVED AND RELOCATED

EX. CONCRETE PAVEMENT TO BE REMOVED

SAW CUT FULL DEPTH AT NEAREST CONCRETE JOINT

15' UTILITY ESMT.

20' SETBACK LINE PER ZONING

N 15°18'07" W 38.07' (R,M)

EX. SIGN TO BE REMOVED

N 76°30'50" E 230.98' (R,M)

PRIVATE DRIVE

EX. TREE TO BE REMOVED

INGRESS/ACCESS EASEMENT DOC. #2004100519 79

INGRESS/ACCESS EASEMENT DOC. #2004100519 79

NEW GREENWICH DRIVE
PRIVATE RIGHT OF WAY

LIMITS OF DISTURBANCE
R=250.00', L=53.07'
Ch=S03°44'35"E 52.97'
Δ=12°09'44" (R,M)

EX. 6" VERTICAL CURB AND GUTTER TO BE REMOVED

No.	EX. STORM STRUCTURE DATA
①	TOP ELEV. = 999.75 S: 12" PVC FL IN = 996.79 E: 12" PVC FL OUT = 995.79
②	TOP ELEV. = 999.87 W: 12" PVC FL IN = 994.87 S: 15" PVC FL OUT = 994.37
③	TOP ELEV. = 1000.11 W: 12" PVC FL IN = 996.31 N: 12" PVC FL OUT = 996.01

PARCEL ID:
70-820-03-01-00-0-00-000
McDONALDS REAL ESTATE
DOC. #200510108015

PARCEL ID:
70-820-03-06-00-0-00-000
LEES SUMMIT M150 LLC
DOC. #200510088365

PARCEL ID:
70-820-03-03-00-0-00-000
LEES SUMMIT M150 LLC
DOC. #2004180051978

SCOPE

THE DEMOLITION WORK SHOWN ON THESE DRAWINGS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS LOCATED WITHIN THE PROPERTY LIMITS UNLESS OTHERWISE NOTED TO REMAIN:
BUILDINGS AND FOUNDATIONS; CONCRETE AND ASPHALT PAVEMENTS; WALKS; STAIRS; RAMPS; PATIOS AND STOOPS, INCLUDING ANY UNDERLYING BRICK AND BASE ROCK; UTILITIES AS SHOWN; ALL SHRUBBERY AND TREES, UNLESS DESIGNATED TO REMAIN; FENCES; WALLS; RAILINGS AND BOLLARDS; LIGHT STANDARDS.

SUBCONTRACTOR RESPONSIBLE FOR ALL PERMITS, FEES, AND COORDINATION WITH UTILITY COMPANIES.

DEMOLITION PLAN LEGEND

- DEMO AREA
- DEMO LIMITS
- SAW CUT
- LIMITS OF DISTURBANCE

CONSTR. DOC. & REVISIONS

No.	Description	Date
DP	Development Plan Response	06-17-20
CC	City Comments	06-30-20
DP2	Development Plan Response 2	07-15-20
O3	Owner Revision 3	07-20-20
4	Clarification	07-31-20
6	Owner Revision	08-20-20

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21

STATE OF MISSOURI
THOMAS E. BUERK III
NUMBER PE-2018000174
PROFESSIONAL ENGINEER

08-20-20

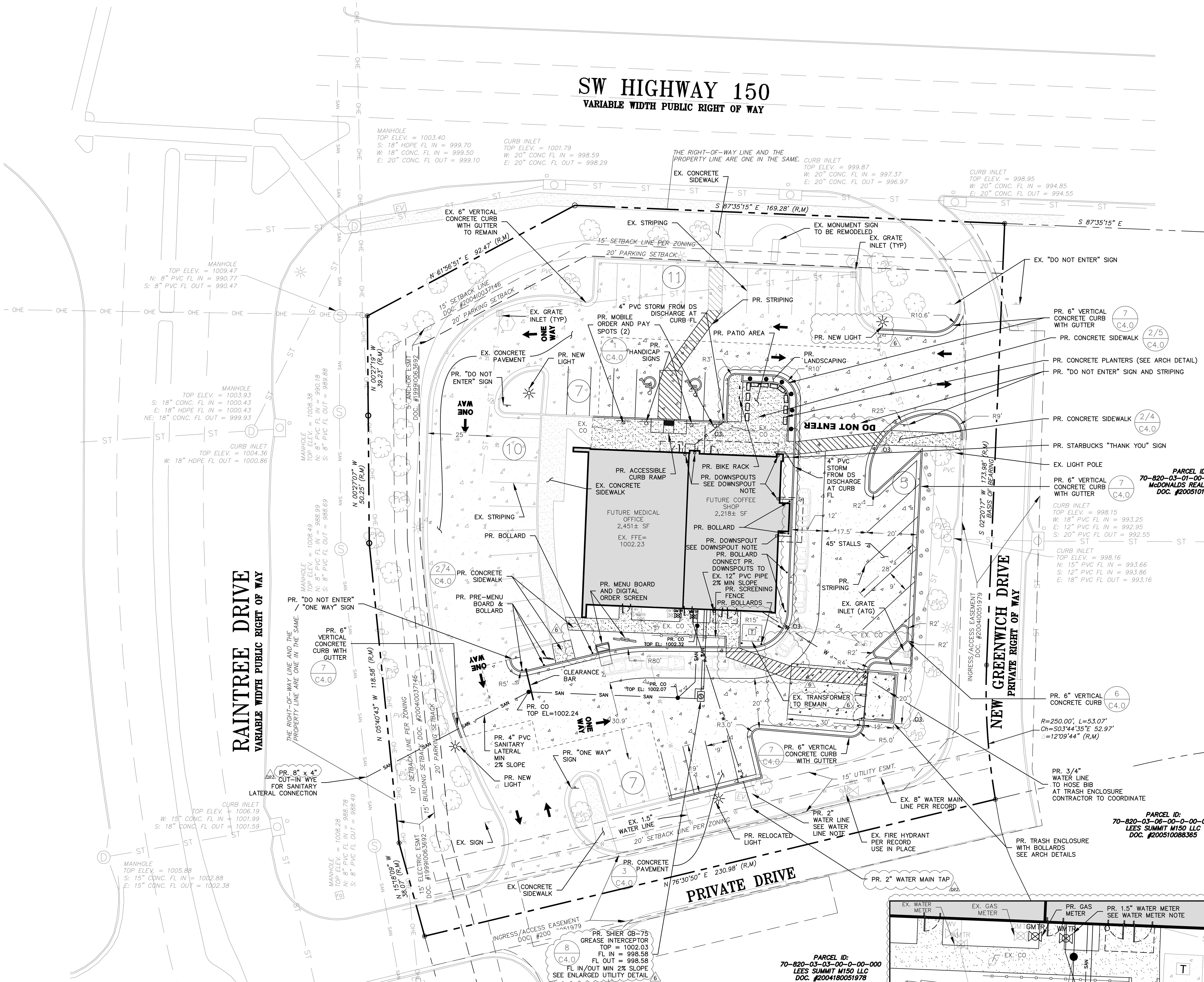
PROFESSIONAL OF RECORD
Buerk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

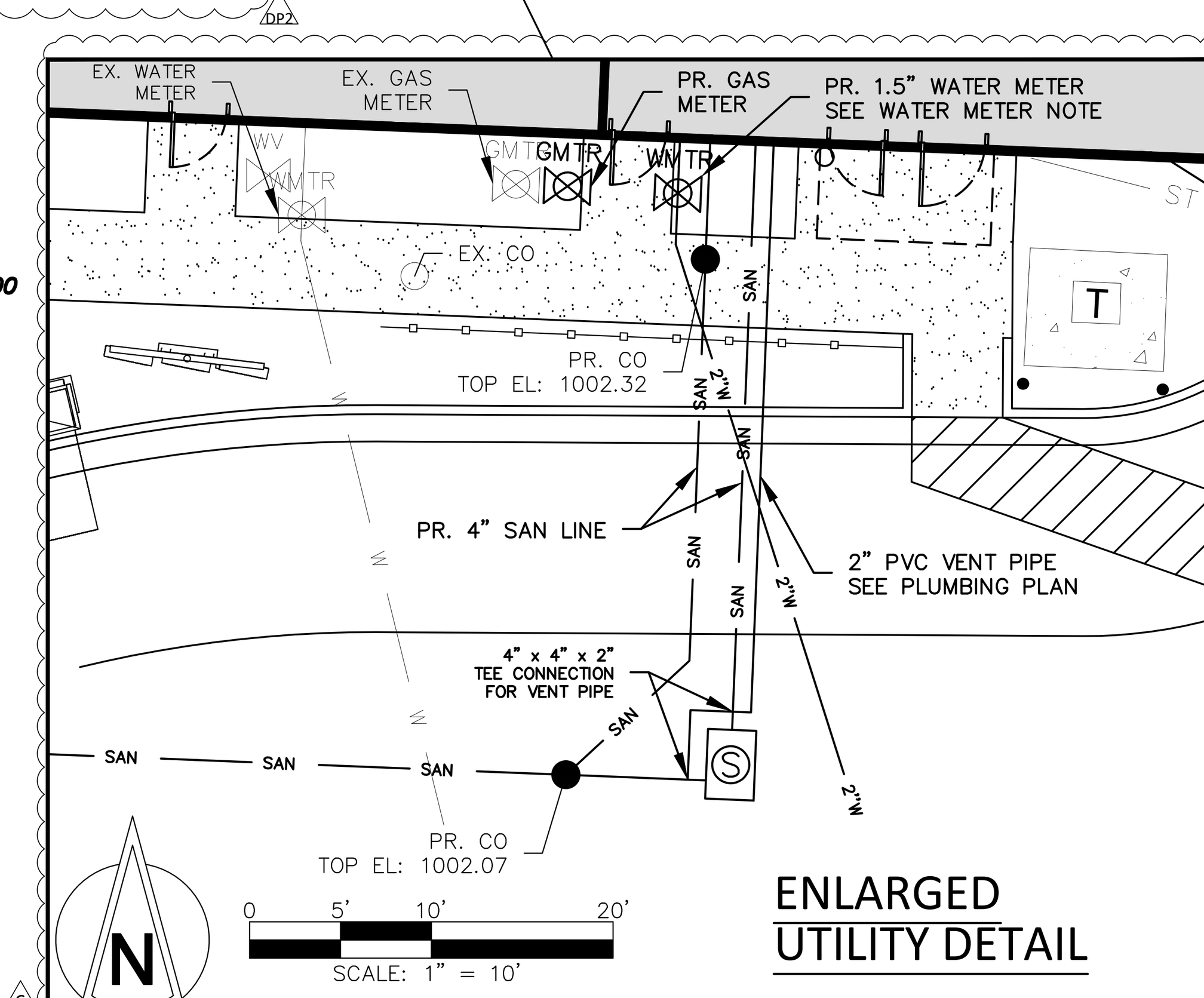
Drawn By/Checked By:	MEB/TEB
Project Number	320488
Permit Date	06-17-20

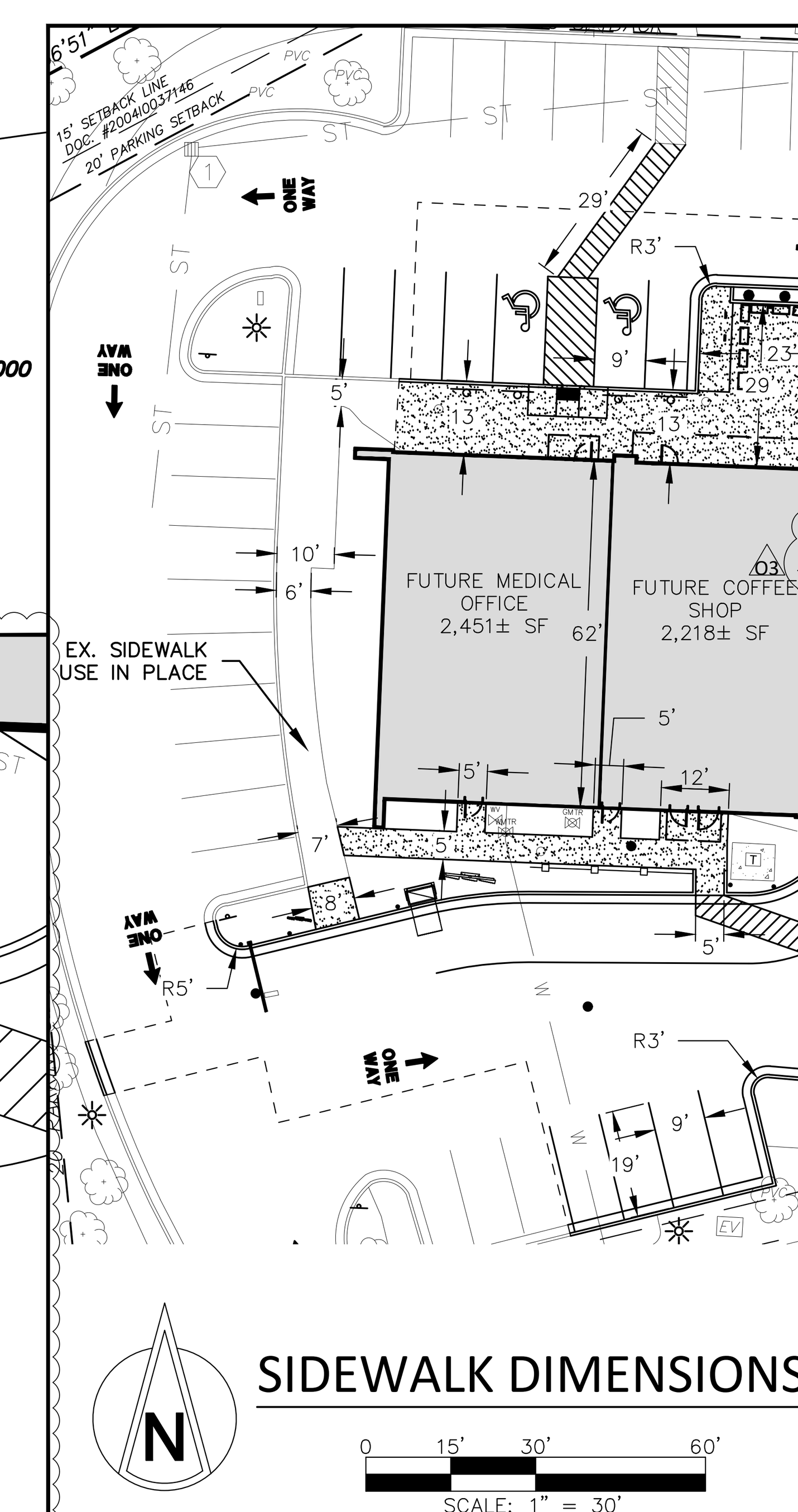
CALL BEFORE YOU DIG – DRILL – BLAST
1-800-344-7483
MISSOURI ONE-CALL SYSTEM, INC.

DEMOLITION PLAN

C1.0







NOTE
ITEMS SCHEDULED FOR DEMOLITION HAVE BEEN REMOVED FOR CLARITY.

CALL BEFORE YOU DIG – DRILL – BLAST
1-800-344-7483
MISSOURI ONE-CALL SYSTEM, INC

SCALE: 1" = 20'

PAVEMENT LEGEND

EX. CONCRETE PAVEMENT	
PR. CONCRETE PAVEMENT	
EX. CONCRETE SIDEWALK	
PR. CONCRETE SIDEWALK	
SAW CUT	– – – – – – – – – –

No.	EX. STORM STRUCTURE DATA
1	TOP ELEV. = 999.75 S: 12" PVC FL IN = 996.79 E: 12" PVC FL OUT = 995.79
2	TOP ELEV. = 999.87 W: 12" PVC FL IN = 994.87 S: 15" PVC FL OUT = 994.37
3	TOP ELEV. = 1000.11 W: 12" PVC FL IN = 996.31 N: 12" PVC FL OUT = 996.01

WATER METER NOTE

PROPOSED 2" WATER LINE TO STUB IN FROM EXISTING 8" WATER MAIN LINE. PROPOSED 2" WATER LINE TO ROUTE TO PROPOSED 1.5" WATER METER, THEN ROUTE FROM WATER METER TO ENTER BUILDING VIA 2" WATER LINE.

WATER LINE NOTE

CONTRACTOR TO VERIFY EXISTING WATER LINE AND WATER MAIN LOCATION PRIOR TO CONSTRUCTION.

PROPOSED 2" WATER LINE AND PROPOSED 3/4" HOSE BIB LINE SHALL BE TYPE "K" SOFT COPPER, COMPLYING WITH ASTM B 88, IN ACCORDANCE TO CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS, SECTION 3900 WATER MAINS, PARAGRAPH 3901.R. DP2

DOWNSPOUT NOTE

4" PVC STORM PIPE FROM PROPOSED DOWNSPOUT TO DISCHARGE AT FLOWLINE EQUAL TO CURB FLOWLINE. MIN 2% SLOPE.

NOTE:

SHELL GENERAL CONTRACTOR TO VERIFY FINAL LOCATIONS OF ALL DRIVE–THRU EQUIPMENT WITH TENANT DRAWINGS.

SITE DATA:

ADDRESS:	155 SW M-150 HWY LEE'S SUMMIT, MO 64082
SITE AREA:	1.405 ACRES
CURRENT ZONING:	CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
PROPOSED ZONING:	CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
PARKING REQ'D:	MEDICAL OFFICE: 5 SPACES PER 1,000 SF OF GFA. 2,451 SF/1,000 = 2.5 x 5 = 12 SPACES RESTAURANT (FAST FOOD AND SIT-DOWN): 14 SPACES PER 1,000 SF OF GFA. 2,218 SF/1,000 = 2.2 x 14 = 31 SPACES
TOTAL SPACES REQ'D:	43 SPACES
HC SPACES REQ'D:	1 STANDARD + 1 VAN ACCESSIBLE
PARKING PROVIDED:	38 SPACES + 2 HC SPACES = 40 SPACES
IMPERVIOUS AREA:	0.821 ACRES (35,777± SF)
FLOOR AREA RATIO:	4,669 SF / 61,187 SF = 0.076

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO CIVIL
A CASCO Diversified Corporation Company
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

BUILDING RENOVATION

155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

CONSTR. DOC. & REVISIONS

No.	Description	Date
DP	Development Plan Response	06-17-20
CC	City Comments	06-30-20
DP2	Development Plan Response 2	07-15-20
O3	Owner Revision 3	07-20-20
4	Clarification	07-31-20
6	Owner Revision	08-20-20

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21

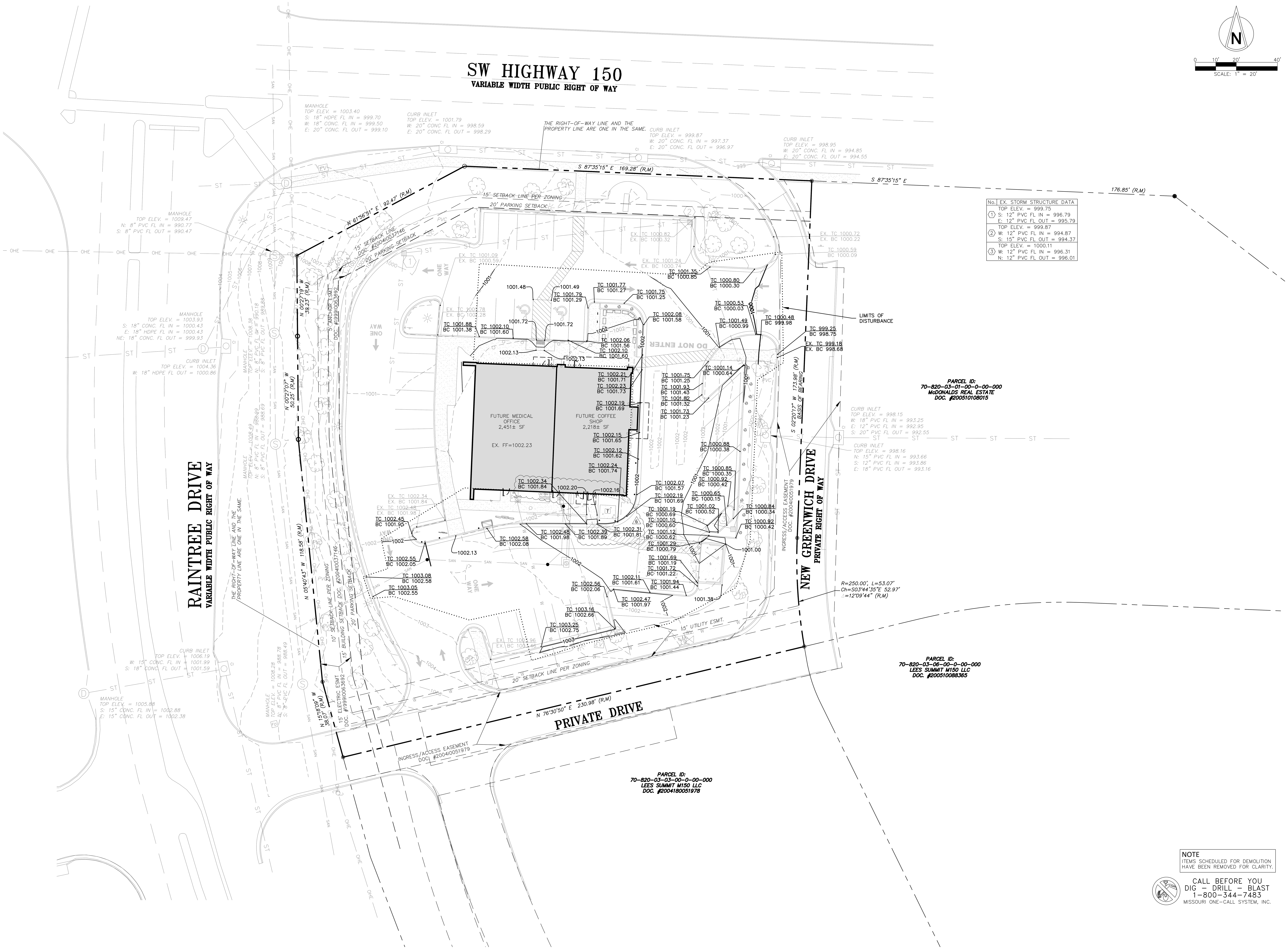
STATE OF MISSOURI
THOMAS E. BUERK III
NUMBER PE-2018000174
PROFESSIONAL ENGINEER
08-20-20

PROFESSIONAL OF RECORD
Buerk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

Drawn By/Checked By:	MEB/TEB
Project Number	320488
Permit Date	06-17-20

SITE & UTILITY PLAN

C2.0



No.	EX. STORM STRUCTURE DATA
1	TOP ELEV. = 999.75 S: 12" PVC FL IN = 996.79 E: 12" PVC FL OUT = 995.79
2	TOP ELEV. = 999.87 W: 12" PVC FL IN = 994.87 S: 15" PVC FL OUT = 994.37
3	TOP ELEV. = 1000.11 W: 12" PVC FL IN = 996.31 N: 12" PVC FL OUT = 996.01

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO CIVIL
A CASCO Diversified Corporation Company
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T:314.821.1100

BUILDING RENOVATION

155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

CONSTR. DOC. & REVISIONS

No.	Description	Date
DP	Development Plan Response	06-17-20
CC	City Comments	06-30-20
DP2	Development Plan Response 2	07-15-20
O3	Owner Revision 3	07-20-20
4	Clarification	07-31-20
6	Owner Revision	08-20-20

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21

STATE OF MISSOURI
THOMAS E. BUERK III
NUMBER PE-2018000174
PROFESSIONAL ENGINEER

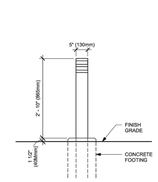
08-20-20

PROFESSIONAL OF RECORD
Buerk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

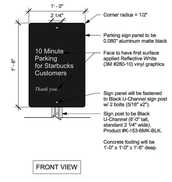
Drawn By/Checked By:	MEB/TEB
Project Number	320488
Permit Date	06-17-20

GRADING PLAN

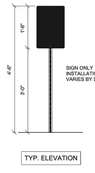
C3.0



1 DTE - NON-ILLUMINATED BOLLARD

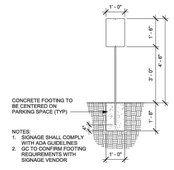


FRONT VIEW



TYP. ELEVATION

2 MOP SIGN - BY LL

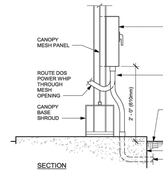


3 FOOTING @ MOP SIGN - BY LL

NOTE: ALL SIGNAGE UNDER SEPARATE PERMIT, SHOWN FOR COORDINATION PURPOSES ONLY

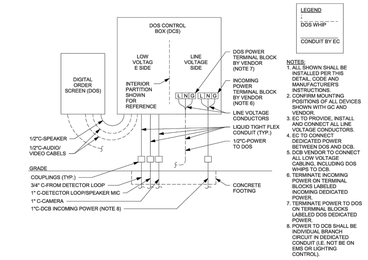
NOTE:

SHELL GENERAL CONTRACTOR TO VERIFY FINAL LOCATIONS OF ALL DRIVE–THRU EQUIPMENT WITH TENANT DRAWINGS.



SECTION

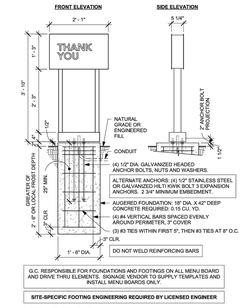
4 DTE - DOS CONTROL BOX AT CANOPY - SECTION



LEGEND
DOS WHIP
CONDUIT BY EC

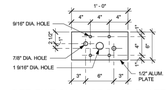
NOTES:
1. ALL KNOWN SHALL BE INSTALLED PER THIS DETAIL, CODE AND MANUFACTURER'S INSTRUCTIONS.
2. CONFIRM MOUNTING POSITIONS OF ALL DEVICES WITH TENANT, GC AND VENDOR.
3. EC TO PROVIDE, INSTALL AND CONNECT ALL LINE VOLTAGE CONDUCTORS.
4. EC TO PROVIDE DEDICATED POWER BETWEEN DOS AND DCB.
5. DCB VENDOR TO CONNECT ALL LOW VOLTAGE CONDUCTORS INCLUDING DOS WHIPS TO DCB.
6. TERMINATE INCOMING POWER ON TERMINAL BLOCKS LABELED DOS DEDICATED POWER.
7. TERMINATE POWER TO DOS ON TERMINAL BLOCKS LABELED DOS DEDICATED POWER.
8. POWER TO DCB SHALL BE INDIVIDUAL BRANCH CIRCUIT IN DEDICATED CONDUIT (I.E. NOT BE ON EMS OR LIGHTING CONTROL).

5 DTE - DOS CONTROL BOX WIRING



8 DTE - EXIT SIGN

6 DTE EXIT SIGNAGE BOLT PATTERN



7 DTE EXIT SIGNAGE BASE PLATE

STARBUCKS®
2401 UTAH AVENUE SOUTH
SEATTLE, WASHINGTON 98134
(206) 318-1575

STARBUCKS TEMPLATE VERSION: 2020-04-20

NORR

PROJECT NAME:
BUILDOUT OF STARBUCKS
COFFEE RT. 291 & 150

PROJECT ADDRESS:
155 SW M-150 HWY
LEES SUMMIT, MO 64082
JACKSON COUNTY

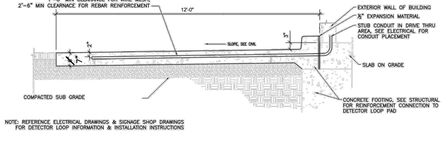
STORE #:	63039
PROJECT #:	88084-001
ISSUE DATE:	07-13-2020
SR. DESIGN MANAGER:	K. GORIN-SLONSKI
PRODUCTION DESIGNER:	A.MAUSER
CHECKED BY:	NORR

Revision Schedule

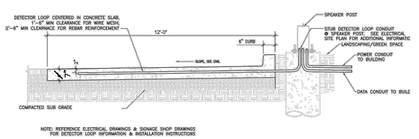
Rev	Date	By	Description

SHEET TITLE:
ARCHITECTURAL SITE DETAILS
SCALE: AS SHOWN

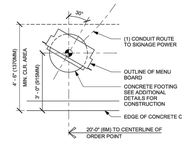
SHEET NUMBER:
A003



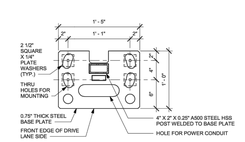
1 SECTION @ DETECTOR LOOP IN OCNRETE PAD AT THE DRIVE THRU WINDOW



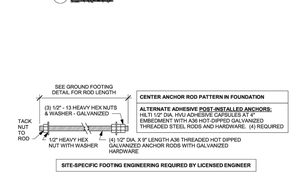
2 SECTION @ DETECTOR LOOP IN CONCRETE PAD AT THE MENU BOARD



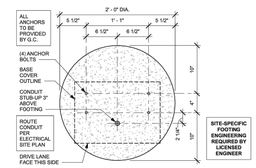
3 DTE PRE-MENU 30 DEG



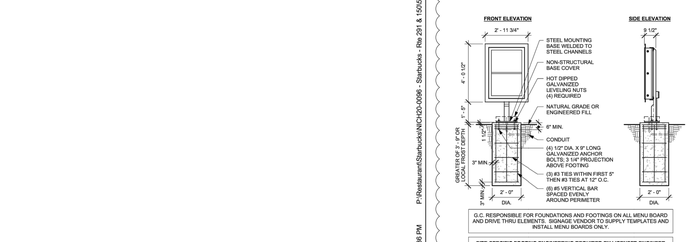
4 DTE PRE- MENU BASE PLATE



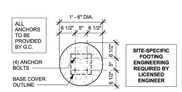
5 DTE PRE-MENU ANCHOR ROD



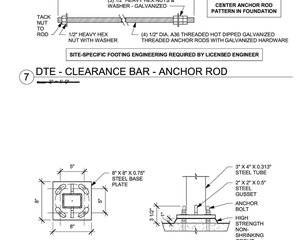
6 PRE-MENU BOLT PATTERN



8 PRE-MENU BOARD GROUND FOOTING

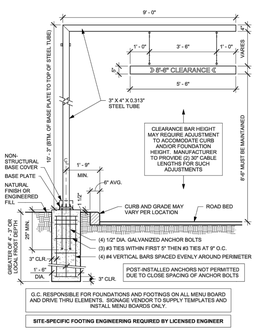


9 DTE SIGN - CLEARANCE BAR - BOLT PATTERN



7 DTE - CLEARANCE BAR - ANCHOR ROD

10 DTE CLEARANCE BAR - BASE PLATE



11 DTE SIGN - CLEARANCE BAR - GROUND FOOTING

STARBUCKS®
2401 UTAH AVENUE SOUTH
SEATTLE, WASHINGTON 98134
(206) 318-1575

STARBUCKS TEMPLATE VERSION: 2020-04-20

NORR

PROJECT NAME:
BUILDOUT OF STARBUCKS
COFFEE RT. 291 & 150

PROJECT ADDRESS:
155 SW M-150 HWY
LEES SUMMIT, MO 64082
JACKSON COUNTY

STORE #:	63039
PROJECT #:	88084-001
ISSUE DATE:	07-13-2020
SR. DESIGN MANAGER:	K. GORIN-SLONSKI
PRODUCTION DESIGNER:	A.MAUSER
CHECKED BY:	NORR

Revision Schedule

Rev	Date	By	Description

SHEET TITLE:
ARCHITECTURAL SITE DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
A004

03

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT PROCESS
LEE'S SUMMIT, MISSOURI
08/25/2020

CASCO CIVIL
A CASCO Diversified Corporation Company
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

BUILDING RENOVATION
155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

CONSTR. DOC. & REVISIONS

No.	Description	Date
DP	Development Plan Response	06-17-20
CC	City Comments	06-30-20
DP2	Development Plan Response 2	07-15-20
03	Owner Revision 3	07-20-20
4	Clarification	07-31-20
6	Owner Revision	08-20-20

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21

STATE OF MISSOURI
THOMAS E. BUERK III
NUMBER PE-2018000174
PROFESSIONAL ENGINEER

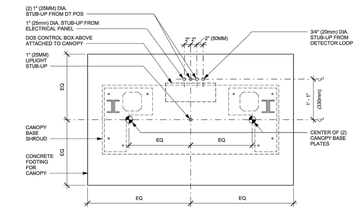
08-20-20

PROFESSIONAL OF RECORD
Buerk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

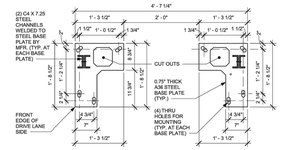
Drawn By/Checked By:	MEB/TEB
Project Number	320488
Permit Date	06-17-20

SITE DETAILS

C4.1

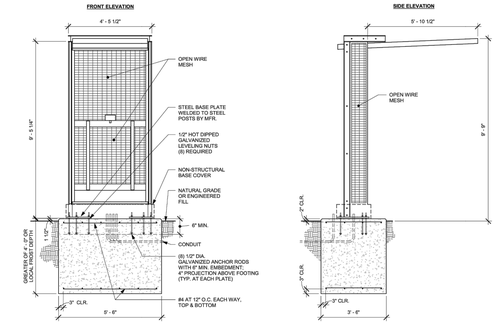


1 DTE - DOS CONTROL BOX CONDUIT STUB-UPS AT CANOPY

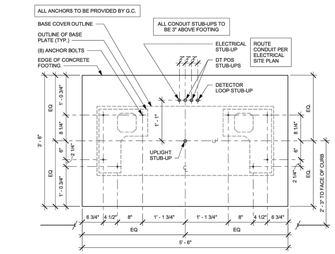


2 DT POS CANOPY BASE PLATE

3 DT POS CANOPY ANCHOR ROD



4 FOOTING AT DT DOS CANOPY



5 DT POS CANOPY BOLT PATTERN

NOTE:

SHELL GENERAL CONTRACTOR TO VERIFY FINAL LOCATIONS OF ALL DRIVE-THRU EQUIPMENT WITH TENANT DRAWINGS.

DESIGN DEVELOPMENT ONLY - NOT INTENDED FOR CONSTRUCTION USE

STARBUCKS®
2401 UTAH AVENUE SOUTH
SEATTLE, WASHINGTON 98134
(206) 318-1575

STARBUCKS TEMPLATE VERSION: 2020-04-20

NORR

PROJECT NAME:
BUILDOUT OF STARBUCKS
COFFEE RT. 291 & 150

PROJECT ADDRESS:
155 SW M-150 HWY
LEES SUMMIT, MO 64082
JACKSON COUNTY

STORE #:	63039
PROJECT #:	88084-001
ISSUE DATE:	07-13-2020
SR. DESIGN MANAGER:	K. DORN-BLONSKI
PRODUCTION DESIGNER:	A.SAAVEDER
CHECKED BY:	NORR

Revision Schedule

Rev	Date	By	Description

SHEET TITLE:
ARCHITECTURAL SITE DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
A005

CASCO CIVIL
A CASCO Diversified Corporation Company
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

BUILDING RENOVATION

155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

CONSTR. DOC. & REVISIONS

No.	Description	Date
DP	Development Plan Response	06-17-20
CC	City Comments	06-30-20
DP2	Development Plan Response 2	07-15-20
O3	Owner Revision 3	07-20-20
4	Clarification	07-31-20
6	Owner Revision	08-20-20

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21

STATE OF MISSOURI
THOMAS E. BUERK III
NUMBER PE-2018000174
PROFESSIONAL ENGINEER

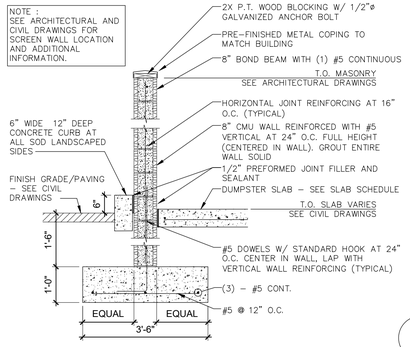
08-20-20

PROFESSIONAL OF RECORD
Buerk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

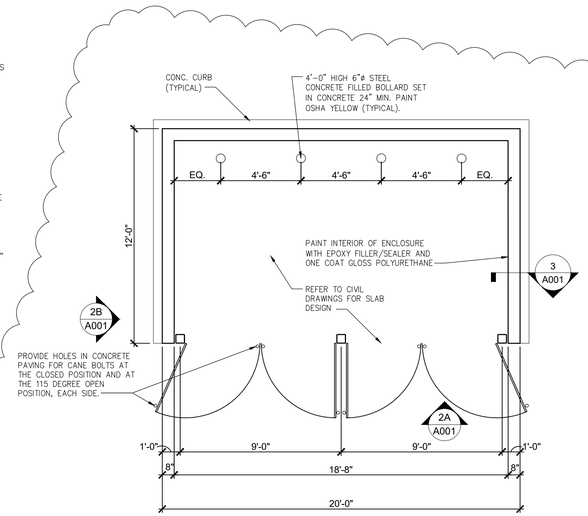
Drawn By/Checked By:	MEB/TEB
Project Number	320488
Permit Date	06-17-20

SITE DETAILS

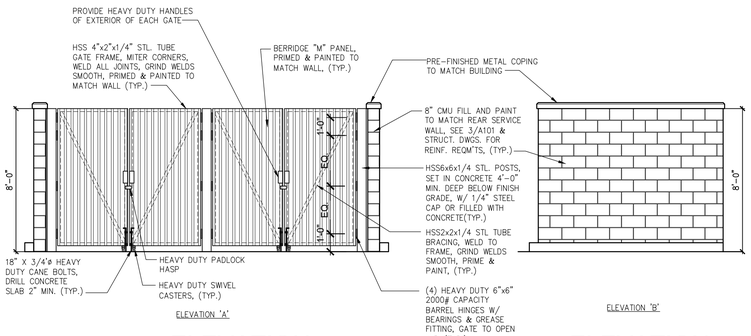
C4.2



3 A101 **DETAIL**
SCALE: 1/2" = 1'-0"

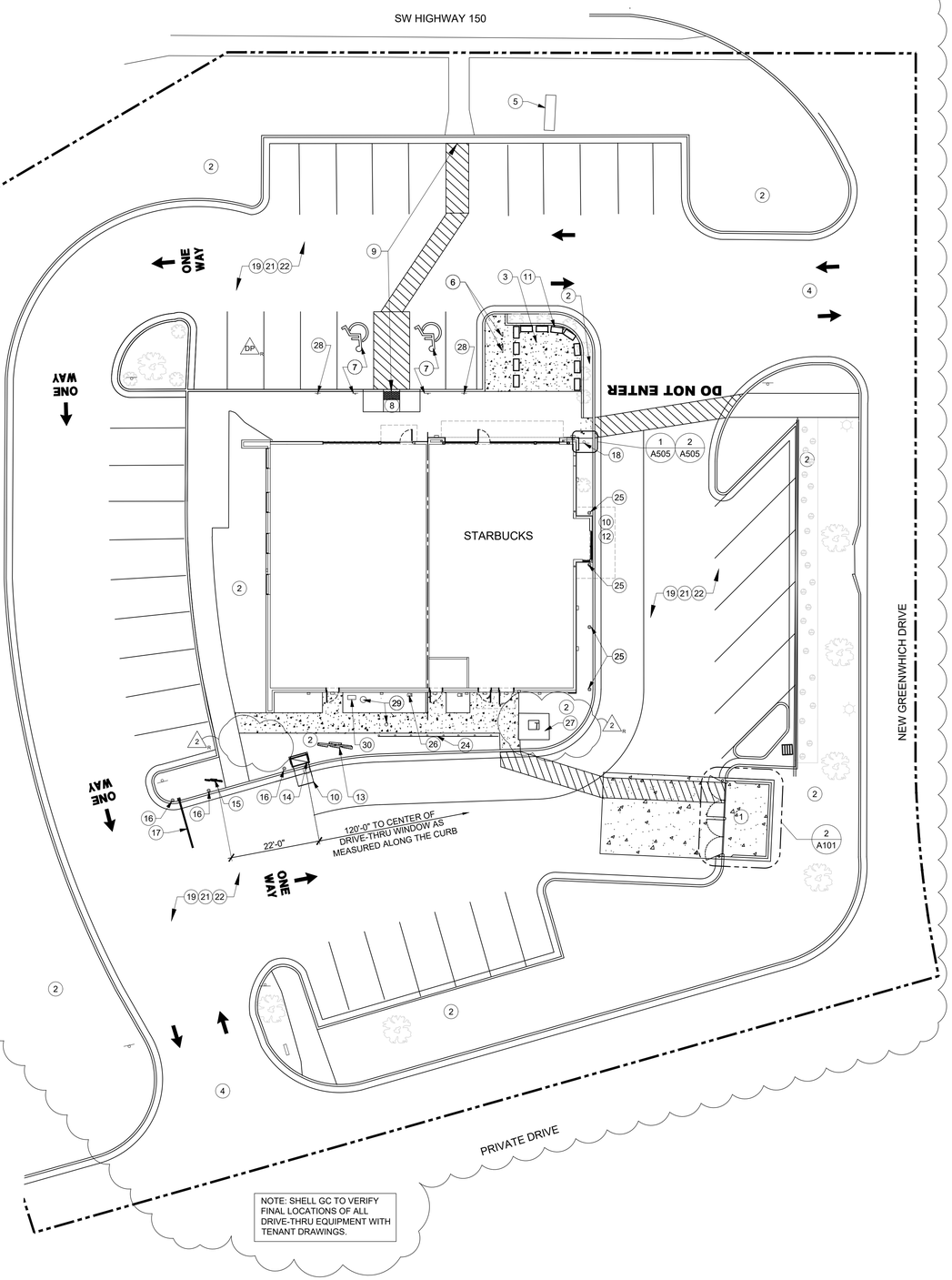


2 A001 **TRASH ENCLOSURE PLAN**
SCALE: 1/4" = 1'-0"



2A A001 **ELEVATION**
SCALE: 1/4" = 1'-0"

2B A001 **ELEVATION**
SCALE: 1/4" = 1'-0"



1 A001 **SITE PLAN**
SCALE: 1/16" = 1'-0"

NORTH

ARCHITECTURAL SITE PLAN KEYNOTES

1	TRASH ENCLOSURE TO ACCOMMODATE MIN. 2 DUMPSTERS (ONE FOR RECYCLING) W/ HOSE BIB.	11	IRRIGATED PLANTERS. REFER TO CIVIL AND LANDSCAPE DRAWINGS.	21	PARKING, DRIVE-THRU AND DIRECTIONAL STRIPING. REFER TO CIVIL DRAWINGS.
2	LANDSCAPING TO BE LOW PROFILE, NO HIDING PLACES, 30" MAXIMUM HEIGHT; RE: LANDSCAPE PLANS.	12	DRIVE THRU WINDOW	22	SITE LIGHTING. REFER TO ELECTRICAL DRAWINGS.
3	PATIO.	13	DRIVE THRU MENU BOARD, RE: DETAIL 9/A504A.	23	NOT USED
4	SITE ACCESS.	14	DRIVE THRU ORDER SCREEN AND CANOPY, RE: DETAIL9/A504A & 5/A505	24	TALL SCREEN TO COVER UTILITY METERS, RE: DETAIL 1/A506.
5	UPDATED EXISTING MONUMENT SIGN, BY OWNER.	15	PREVIEW MENU BOARD, RE: DETAIL 2 & 8/A504A.	25	PROTECTIVE BOLLARDS AND FOOTING AT DRIVE-THRU LANE, SHOULD BE ILLUMINATED WHEN IN LANDSCAPE STRIP. SEE DETAIL 13B/A506.
6	BIKE RACK. RE:14/A506	16	NON-ILLUMINATED PROTECTIVE BOLLARD AND FOOTING, SEE DETAIL 13A/A506.	26	EXISTING GAS SERVICE
7	HANDICAPPED PARKING AND SIGN	17	CLEARANCE BAR, SEE DETAIL 6/A504.A	27	EXISTING TRANSFORMER. REFER TO CIVIL DRAWINGS.
8	ACCESSIBLE CURB RAMP	18	DIRECTIONAL SIGNAGE. RE: 1,2 & 3/A505	28	MOBIL ORDER PARKING SIGN
9	ACCESSIBLE PATH OF TRAVEL. REFER TO CIVIL DRAWINGS	19	REFER TO CIVIL DRAWINGS FOR PAVING .	29	EXISTING WATER METER AND CLEAN OUT
10	DRIVE-THRU EQUIPMENT INCLUDING VEHICLE DETECTION LOOP, WIRELESS COMMUNICATION, AND MONITORS.	20	NOT USED	30	EXISTING IRRIGATION VAULT

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T 314.

MIDLAND
GENERAL CONTRACTORS INCORPORATED

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
	Final Development Plan	05/27/20
	Owner Review 2	06/04/20
DP	DEVELOPMENT PLAN RESPONSE	06/17/20
1	OWNER REVISION 3	07/20/20
2	OWNER REVISION 6	08/20/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By: RMT/MSD
Project Number 320488

Permit Date 06-17-20

ARCHITECTURAL SITE PLAN

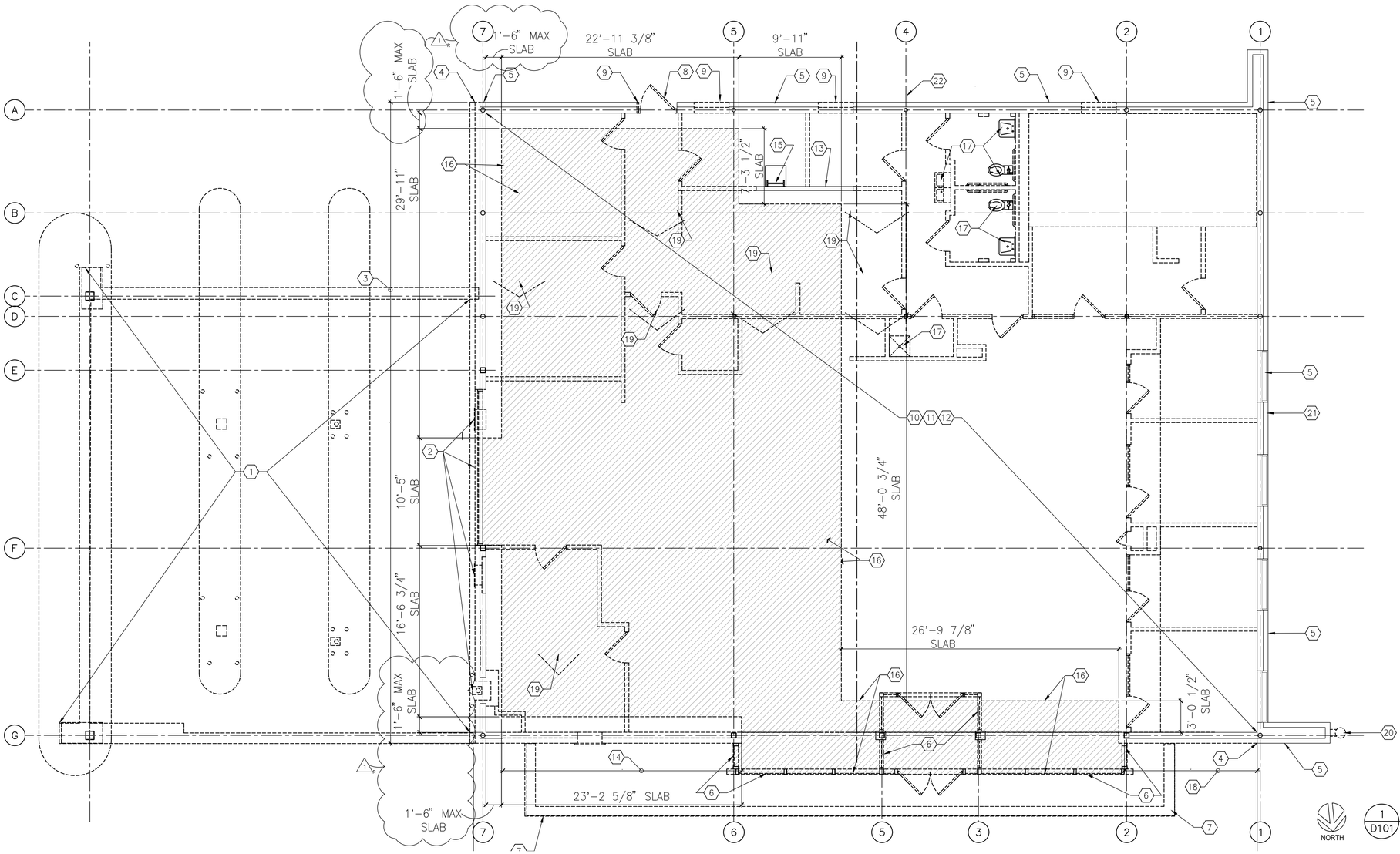
A001

DEMOLITION PLAN KEYED NOTES

1. EXISTING DRIVE-THRU CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY. STRUCTURAL STEEL COLUMNS WITHIN THE BUILDING WALL TO REMAIN. DRIVE THRU EQUIPMENT, CURBS AND BOLLARDS TO BE REMOVED IN THEIR ENTIRETY. COORDINATE WITH CIVIL.
2. EXISTING WALL MOUNTED DRIVE-THRU EQUIPMENT, WINDOW SYSTEM AND STUD WALL TO BE REMOVED IN THEIR ENTIRETY TO THE BOTTOM OF THE STEEL ROOF BEAMS AS REQUIRED FOR NEW CONSTRUCTION. REMOVE ALCOVE FOR VACUUM TUBE AND INFILL TO MATCH ADJACENT CONSTRUCTION. REFER TO A101 FOR ADDITIONAL INFORMATION.
3. EXISTING BRICK VENEER TO BE REMOVED IN ITS ENTIRETY FROM THE ENTIRE EAST AND NORTH WALLS U.N.O.. EXISTING EXTERIOR SHEATHING TO REMAIN. REPLACE ANY EXISTING EXTERIOR SHEATHING AND INSULATION THAT IS UNSOUND OR IN DISREPAIR. INFILL VOIDS TO MATCH ADJACENT EXISTING CONSTRUCTION. PREPARE WALL TO RECEIVE NEW FLUID APPLIED AIR AND MOISTURE BARRIER SYSTEM
4. SAW CUT EXISTING BRICK VENEER TO PROVIDE A CLEAN JOINT AT NEW EXTERIOR FINISH MATERIAL.
5. EXISTING BRICK VENEER STUD WALL AND WINDOWS TO REMAIN. G.C. TO PROTECT DURING CONSTRUCTION. TUCKPOINT AS REQUIRED. REFER TO A101 FOR ADDITIONAL INFORMATION.
6. EXISTING STOREFRONT AND VESTIBULE CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY TO THE BOTTOM OF THE STEEL ROOF BEAMS AS REQUIRED FOR NEW CONSTRUCTION. STRUCTURAL STEEL COLUMNS TO REMAIN.
7. EXISTING CANOPY TO BE REMOVED IN ITS ENTIRETY.
8. EXISTING H.M. DOOR AND FRAME TO BE REMOVED IN ITS ENTIRETY.
9. SAW CUT EXISTING BRICK VENEER AS REQUIRED TO PROVIDE OPENING FOR NEW H.M. DOOR. PROVIDE SHORING AS REQUIRED UNTIL NEW LINTEL IS INSTALLED.
10. ALL EXISTING INTERIOR CEILINGS, LIGHT FIXTURES, DUCTWORK, AND DIFFUSERS TO BE REMOVED COMPLETELY. REFER TO ELECTRICAL AND MECHANICAL FOR ADDITIONAL INFORMATION.
11. ALL EXISTING PARTITIONS AND DOORS AND MILLWORK TO BE REMOVED COMPLETELY UNLESS NOTED INCLUDING ANY OUTLETS, SWITCHES, ETC. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
12. ALL EXISTING FLOORING TO BE REMOVED COMPLETELY. SCRAPE OR GRIND FLOORS TO REMOVE ANY EXISTING ADHESIVES OR REMAINING SUBSTRATES. PATCH, GRIND OR FLOAT FLOORS AS REQUIRED TO ENSURE FLUSH TRANSITION. PREPARE FLOOR AS REQUIRED FOR NEW FINISHES. G.C. TO ENSURE THAT FLOOR SLOPES NO MORE THAN 1/8 INCH PER 10 FEET.
13. EXISTING WALL TO REMAIN. PATCH AND REPAIR GYP. BD. AS REQUIRED.
14. EXISTING STUD WALL AND BRICK VENEER CONSTRUCTION TO BE REMOVED UP TO 10'-0"± A.F.F. TO ACCOMMODATE NEW STOREFRONT. REFER TO A201 FOR EXTENT OF STOREFRONT.
15. EXISTING ROOF HATCH AND LADDER TO REMAIN.
16. SAW CUT AND REMOVE EXISTING SLAB AND FOUNDATION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO A101 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
17. DEMOLISH ALL PLUMBING FIXTURES. REMOVE SUPPLY AND RETURN LINES COMPLETELY. CAP LINES UNDER CONC. SLAB.
18. MODIFY EXISTING EXTERIOR STUD WALL TO CREATE NEW PARAPET HEIGHT ALONG FUTURE MEDICAL OFFICE. SEE A201 FRONT ELEVATION. COORDINATE EXTENT OF DEMOLITION WITH NEW FINISHED PARAPET HEIGHT OF 19'-6".
19. DEMOLISH ALL RTU'S, CURBS, DUCTWORK, DIFFUSERS, BACK TO THE EXISTING ROOF OPENING TYP. INFILL OPENINGS WITH FRAMING, METAL DECK, INSULATION, AND ROOF MEMBRANE TO BE FLUSH WITH EXISTING METAL DECK.
20. EXISTING FLAGPOLE TO BE REMOVED. PATCH AND REPAIR BRICK AS REQUIRED TO MATCH ADJACENT FINISH.
21. EXISTING HOSE BIB TO REMAIN
22. EXISTING GAS SERVICE AND METER TO REMAIN

GENERAL NOTES

1. FIELD VERIFY ALL DRAWINGS AND DIMENSIONS WITH EXISTING CONDITIONS.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REQUIRED FIRE-RATING AND FIRE-PROOFING IN ALL INSTANCES.
3. CONTRACTOR TO PROVIDE FIRE EXTINGUISHERS AS REQUIRED. PROVIDE BLOCKING AS REQUIRED. VERIFY QUANTITY AND LOCATIONS WITH LOCAL OFFICIALS.
4. G.C. TO REMOVE ALL DEBRIS AND/OR RECYCLABLE MATERIALS. DO NOT STORE ON SITE ONCE REMOVED FROM BUILDING.
5. REFER TO PLUMBING DRAWINGS FOR REUSE AND DEMOLITION OF EXISTING PLUMBING.
6. CONTRACTOR IS TO REMOVE AND PROPERLY DISPOSE OF EXISTING KITCHEN AND BATHROOM, SYSTEMS (CAPTIVEAIRE), THIS INCLUDES EXISTING EXHAUST FANS, MAKE UP AIR UNIT AND THEIR DUCTS, CONTROLS, AND GAS LINES. CONTRACTOR IS TO CAP THE ROOF CURBS WEATHER TIGHT AFTER EQUIPMENT REMOVAL. CONTRACTOR IS TO VERIFY LOCATION OF ALL LINES AND EQUIPMENT PRIOR TO DEMOLITION.
7. EXISTING GAS LINES TO THE ROOF TOP UNITS AND WATER HEATER ARE TO BE PRESERVED FOR FUTURE USE. GAS LINES TO KITCHEN EQUIPMENT ARE TO BE REMOVED AND CAPPED AT LINE BRANCHES, WITH A SHUT OFF VALVE.
8. WATER HEATER EXHAUST, INTAKE, GAS PIPING SHALL REMAIN AS IS AND SHOULD BE PROTECTED DURING CONSTRUCTION.
9. CONTRACTOR SHALL INFILL AND SEAL ALL EXISTING FLOOR SINKS AND TROUGHS PER CODE, AND CAP AND SEAL ALL ASSOCIATED VENTS AT FLOOR LEVEL.
10. ANY EXISTING CLEAN OUT SHOULD BE PRESERVED WHEN POSSIBLE, OR CONVERTED FROM A WALL TO A FLOOR CLEAN OUT.
11. ALL FLOOR DRAINS AND ASSOCIATED VENTS SHOULD BE CAPPED AND SEALED PER CODE. ONLY THE FLOOR DRAIN IN THE JANITORS CLOSET SHALL REMAIN.
12. CONTRACTOR IS TO REMOVE ALL EXISTING WATER LINES THAT ARE NOT BEING REUSED SEE PLUMBING DRAWINGS.



1 D101 DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.

MIDLAND
GENERAL CONTRACTOR | BUILDER, LLC

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
1	OWNER REVISION 3	07/20/20
	Owner Review 2	06/04/20
	Owner Review	05/12/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

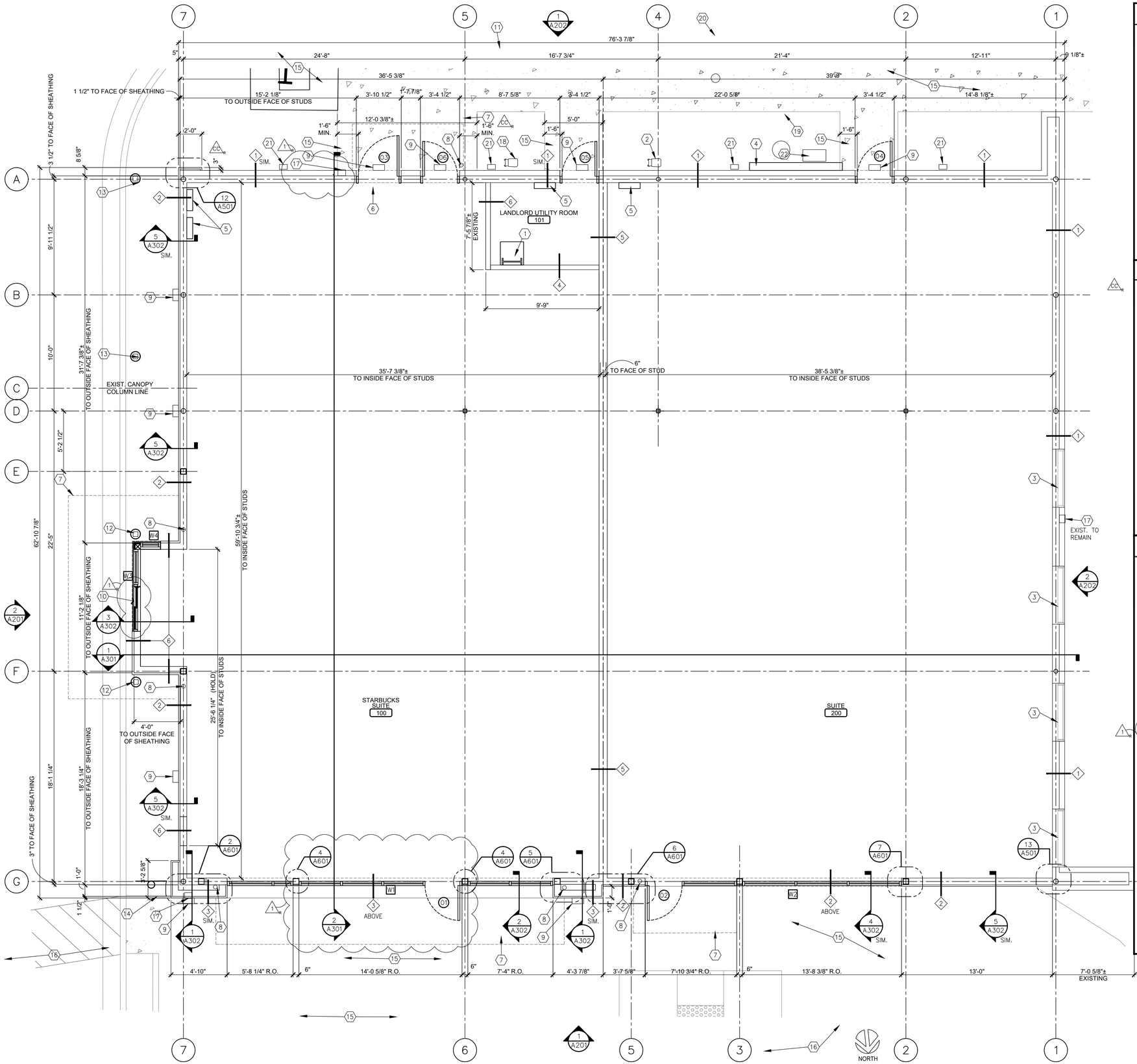
PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By: MS/MSD
Project Number 320488

Permit Date 06-17-20

DEMOLITION PLAN

D101



GENERAL NOTES

1. FIELD VERIFY ALL DRAWINGS AND DIMENSIONS WITH EXISTING CONDITIONS.
2. UNLESS NOTED OTHERWISE, ALL FLOOR PLAN WALL DIMENSIONS ARE TO FACE OF FINISHED WALL TO FACE OF FINISHED WALL.
3. UNLESS NOTED OTHERWISE, ALL EXTERIOR DIMENSIONS ARE TO THE FACE OF FINISH OR ROUGH OPENING.
4. UNLESS NOTED OR SHOWN OTHERWISE, DOORS ARE TO BE LOCATED 4-1/2" OFF OF THE ADJACENT FINISHED WALL SURFACE.
5. ALL WOOD CONSTRUCTION ASSOCIATED WITH THIS WORK SHALL BE FIRE RETARDANT TREATED (FRT). ALL NEW FRAMING AT STOREFRONT AND ABOVE CEILING SHALL BE NON-COMBUSTIBLE.
6. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REQUIRED FIRE-RATING AND FIRE-PROOFING SYSTEMS IN ALL INSTANCES.
7. CONTRACTOR TO VERIFY WITH FIRE DEPARTMENT THE QUANTITY OF LOCATION OF FIRE EXTINGUISHERS REQUIRED FOR UNFINISHED SHELL SPACE.
8. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE CLEAN-UP OF THE BUILDING FOR THEIR RESPECTIVE TRADE AT THE COMPLETION OF WORK EACH DAY. AT ALL TIMES REMOVE WASTE MATERIAL, TRASH AND DEBRIS AND LEGALLY DISPOSE OF.
9. PROVIDE LOW PROFILE THRESHOLD AT ALL EXTERIOR DOORS. THRESHOLD HEIGHT 1/2" H. MAX., TYPICAL.
10. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. STREET ADDRESS NUMBERS SHALL BE PLACED ON THE BUILDING WHERE DIRECTED BY THE FIRE DEPARTMENT, WITH LETTER HEIGHT AND COLOR TO BE DICTATED BY THE FIRE DEPARTMENT. THE LETTERS SHALL BE ARABIC NUMBERS OR ALPHABET LETTERS A MINIMUM OF 4" HIGH WITH MINIMEM STROKE WIDTH OF 0.5 INCH AND SHALL CONTRAST WITH THEIR BACKGROUND.

WALL TYPE LEGEND

1. EXISTING EXTERIOR WALL:
EXISTING EXTERIOR BRICK VENEER ON METAL STUD WALL TO REMAIN. PATCH EXISTING GYP. BD. AS REQUIRED. EXTEND METAL STUD AND BRICK VENEER TO NEW PARAPET HEIGHT SHOWN ON EXTERIOR ELEVATIONS AT SIM. STUD SIZE AND BRICK TO MATCH EXISTING.

2. MODIFIED EXTERIOR WALL (EIFS):
NEW EIFS ON EXISTING METAL STUD AND EXISTING SHEATHING TO REMAIN. PATCH EXISTING INTERIOR GYP. BD. AS REQUIRED.

3. MODIFIED EXTERIOR WALL(SIDING):
NEW FIBER CEMENT SIDING AND 7/8" METAL FURRING ON EXISTING METAL STUD AND EXISTING SHEATHING TO REMAIN. PATCH EXISTING INTERIOR GYP. BD. AS REQUIRED.

4. EXISTING INTERIOR WALL:
EXISTING INTERIOR GYP. BOARD ON METAL STUD WALL TO REMAIN. PATCH EXISTING GYP. BD. AS REQUIRED.

5. NEW DEMISING WALL - UL DESIGN U419 (6" METAL STUDS):
(2) LAYERS 5/8" TYPE 'X' GYP. BD. (MOISTURE RESISTANT AT WET LOCATIONS) ON BOTH SIDES OF 6" (20 GA.) METAL STUDS AT 16" O.C. TO UNDERSIDE OF DECK. PROVIDE SOUND ATTENUATION INSULATION BETWEEN STUDS. SEE **REFER TO DETAIL 10/A502 AND SHT. G-100** FOR ADDITIONAL INFORMATION.

6. NEW INTERIOR WALL:
(1) LAYERS 5/8" TYPE 'X' GYP. BD. (MOISTURE RESISTANT AT WET LOCATIONS) ON BOTH SIDES OF 3 5/8" (20 GA.) METAL STUDS AT 16" O.C. TO UNDERSIDE OF DECK. PROVIDE SOUND ATTENUATION INSULATION BETWEEN STUDS. REFER TO 8/A502 FOR ADDITIONAL INFORMATION.

6. NEW EXTERIOR WALL:
NEW FIBER CEMENT SIDING AND 7/8" METAL FURRING ON NEW SHEATHING AND NEW 6" METAL STUD @ 16" O.C. REFER TO 3/A302 FOR ADDITIONAL INFORMATION.

FLOOR PLAN KEYED NOTES

1. EXISTING ROOF ACCESS LADDER AND HATCH.
2. EXISTING GAS SERVICE AND METER TO REMAIN. REFER TO PLUMBING SHEETS FOR ADDITIONAL INFORMATION.
3. EXISTING WINDOW TO REMAIN
4. ELECT. METER & DISCONNECT
5. ELECT.PANELS
6. PROVIDE 1/2" PLYWOOD BLOCKING FOR FLY FAN ABOVE DOOR
7. CANOPY ABOVE SHOWN DASHED RE:10/A501
8. CANOPY DOWN SPOUT TIE IN TO TO STORM SYSTEM
9. WALL SCONCE/EMERGENCY LIGHT (TYP) REFER TO ELECTRICAL DWGS.
10. DRIVE -THRU WINDOW. RE:A504
11. EQUIPMENT SCREEN FENCE RE:1/A506
12. NON-ILLUMINATED PROTECTIVE BOLLARD & FOOTING, TYP., RE: 13A/A506
13. ILLUMINATED BOLLARD & FOOTING, TYP. OF (6) RE: 13B/A506
14. DRIVE THRU SIGN REFER TO SITE PLAN
15. CONCRETE SIDEWALK, CURB AND CURB CUTS BY CIVIL
16. PARKING LOT PAVEMENT AND STRIPING BY CIVIL
17. HOSE BIB. RE: 1/A502
18. NEW GAS METER
19. EXISTING WATER METER VAULT
20. EXISTING CLEAN OUT
21. EXISTING DOWNSPOUT
22. RELOCATED IRRIGATION VAULT

1 A101 FLOOR PLAN
SCALE: 1/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Summen Drive, Suite 100, St. Louis, MO 63143 T: 314.822.1600
MIDLAND GENERAL CONTRACTORS INCORPORATED

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
	Owner Review 2	06/04/20
CC	City Comments	06/30/20
1	OWNER REVISION 3	07/20/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

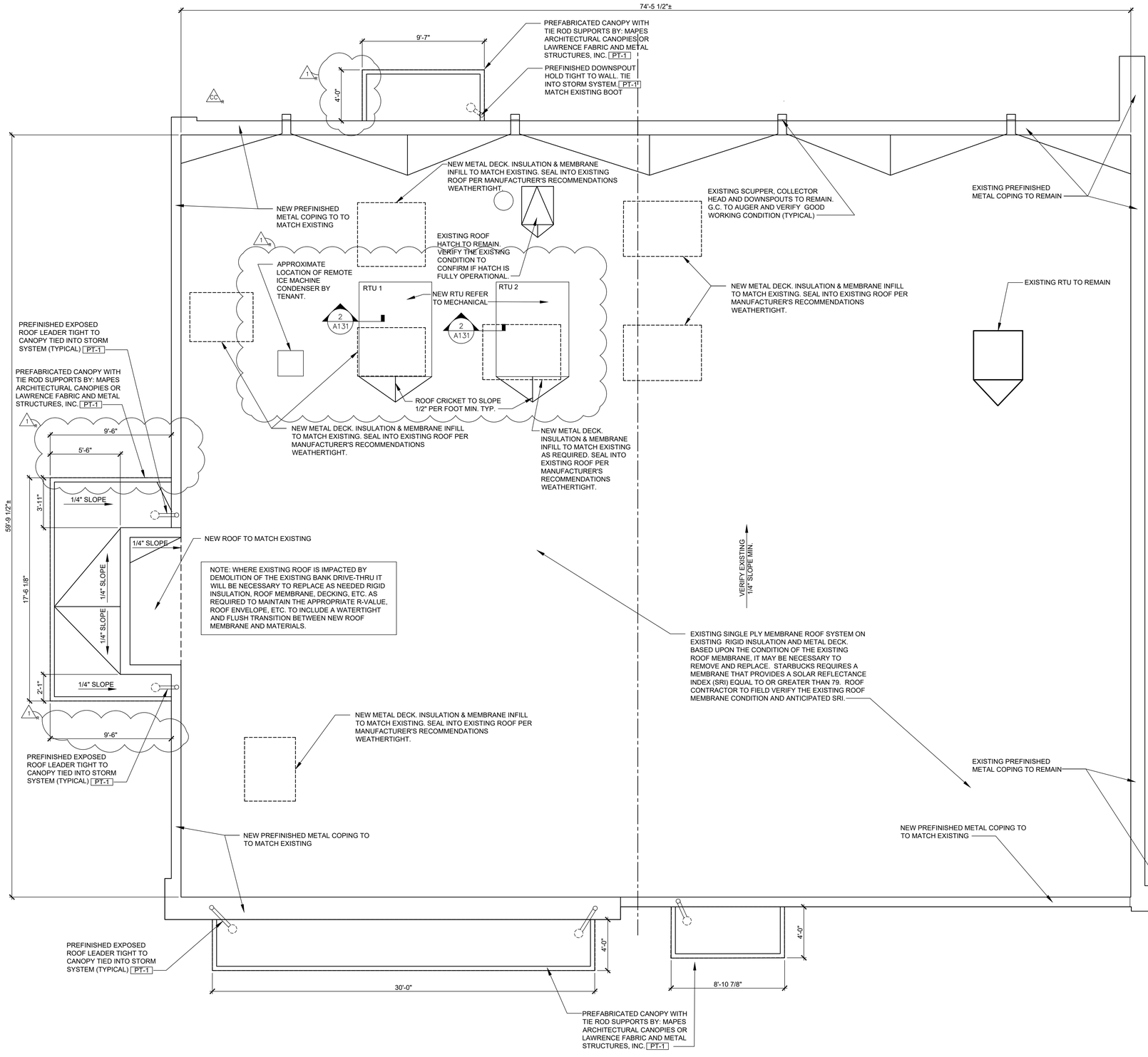
PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By: RMT/MSD
Project Number 320488

Permit Date 06-17-20

FLOOR PLAN

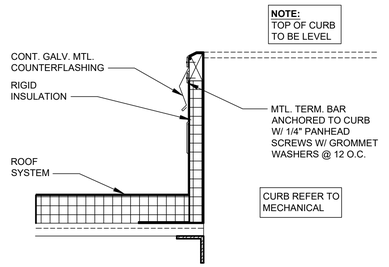
A101



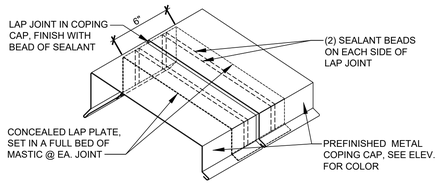
1 A102 ROOF PLAN
SCALE: 1/4" = 1'-0"

GENERAL ROOF NOTES

1. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDINGS OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED ON THE DRAWINGS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, THE CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO THE SUBMITTING HIS PROPOSAL FOR WORK.
2. CONTRACTOR WILL ENSURE POSITIVE DRAINAGE OF THE ROOF TO DRAINS AND SCUPPERS WITHOUT PONDING.



2 A102 DETAIL @ ROOF CURB
SCALE: 1-1/2" = 1'-0"



3 A102 TYPICAL COPING LAP JOINT
SCALE: 1-1/2" = 1'-0"

NOTE: LANDLORD'S ROOFER TO BE USED TO ENSURE EXISTING ROOF WARRANTY REMAINS.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.822.1600

MIDLAND GENERAL CONTRACTORS INCORPORATED

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
-	Owner Review	05/12/20
CC	City Comments	06/30/20
1	OWNER REVISION 3	07/20/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

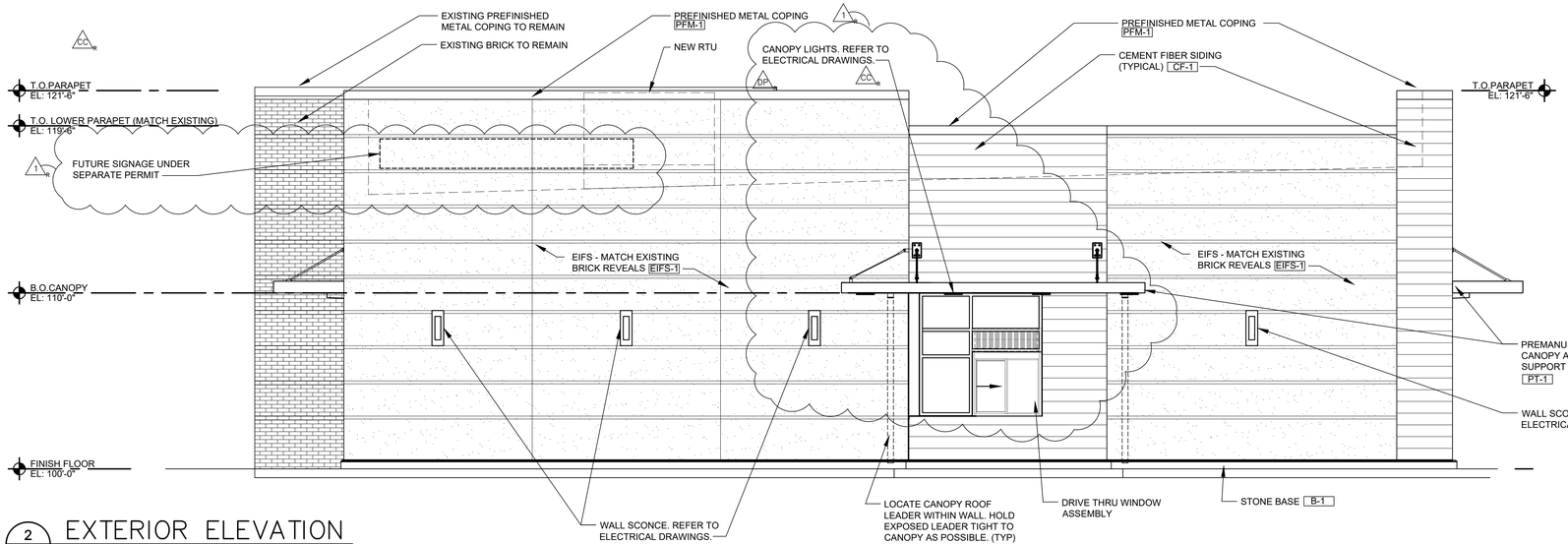
STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By:	RMT/MSD
Project Number	320488
Permit Date	06-17-20

ROOF PLAN

A102



2 A201 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

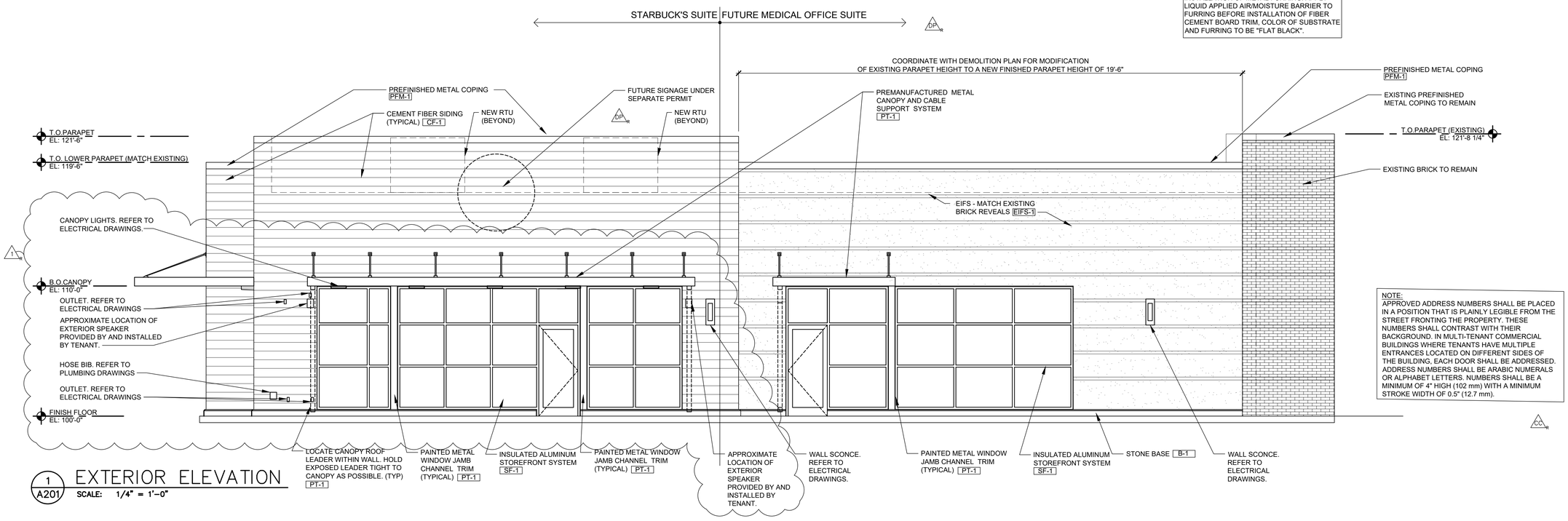
Material Legend

Precast base: B-1	Manf.	Color: Match Cement fiber finish CF-1	Description: Base
Cement fiber siding: CF-1	Manf. Nichiha	Color: Siding: Composite wall panel Vintagewood -Redwood	Description: Front and (Street) End Wall; Refer To Notes
E.I.F.S.: EIFS-1	Manf. StoCorp	Color: StoTherm Essence - Sto 32121 48 - C2 Standard Medium Finish	Description: Main Field
Paint: PT-1; PT-2	Manf. Sherwin Williams; Sherwin Williams	Color: Black Galv. Metal Painted; Match Adjacent finish	Description: Canopy; Curb and H.M. Door
Metal: PFM-1	Manf. Metal Era	Color: Match Existing	Description: Prefinished For Metal Coping
Storefront: SF-1	Manf. Kawneer	Color: Kawneer #29 Black Anodized	Description: Storefront Framing
Aluminum Soffit system: SF-1	Manf. Armstrong	Color: Armstrong "Metal Works" linear 7160 Color - Flat Black	Description: Canopy soffit panels

Material Notes:

Install per manufacturers instruction and recommendations. Use manufacturer certified installer. Provide all trim and accessories as required to provide a complete installation.

NOTE:
AT FIBER CEMENT BOARD, APPLY LIQUID APPLIED AIR/MOISTURE BARRIER TO EXTERIOR SHEATHING BEFORE INSTALLATION OF METAL FURRING. APPLY LIQUID APPLIED AIR/MOISTURE BARRIER TO FURRING BEFORE INSTALLATION OF FIBER CEMENT BOARD TRIM, COLOR OF SUBSTRATE AND FURRING TO BE "FLAT BLACK".



1 A201 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

NOTE:
APPROVED ADDRESS NUMBERS SHALL BE PLACED IN A POSITION THAT IS PLAINLY LEGIBLE FROM THE STREET FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. IN MULTI-TENANT COMMERCIAL BUILDINGS WHERE TENANTS HAVE MULTIPLE ENTRANCES LOCATED ON DIFFERENT SIDES OF THE BUILDING, EACH DOOR SHALL BE ADDRESSED. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS. NUMBERS SHALL BE A MINIMUM OF 4" HIGH (102 mm) WITH A MINIMUM STROKE WIDTH OF 0.5" (12.7 mm).

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.645.2...

MIDLAND
GENERAL CONTRACTOR

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
	Final Development Plan	05/27/20
	Owner Review 2	06/04/20
DP	DEVELOPMENT PLAN RESPONSE	06/17/20
CC	City Comments	06/30/20
1	OWNER REVISION 3	07/20/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

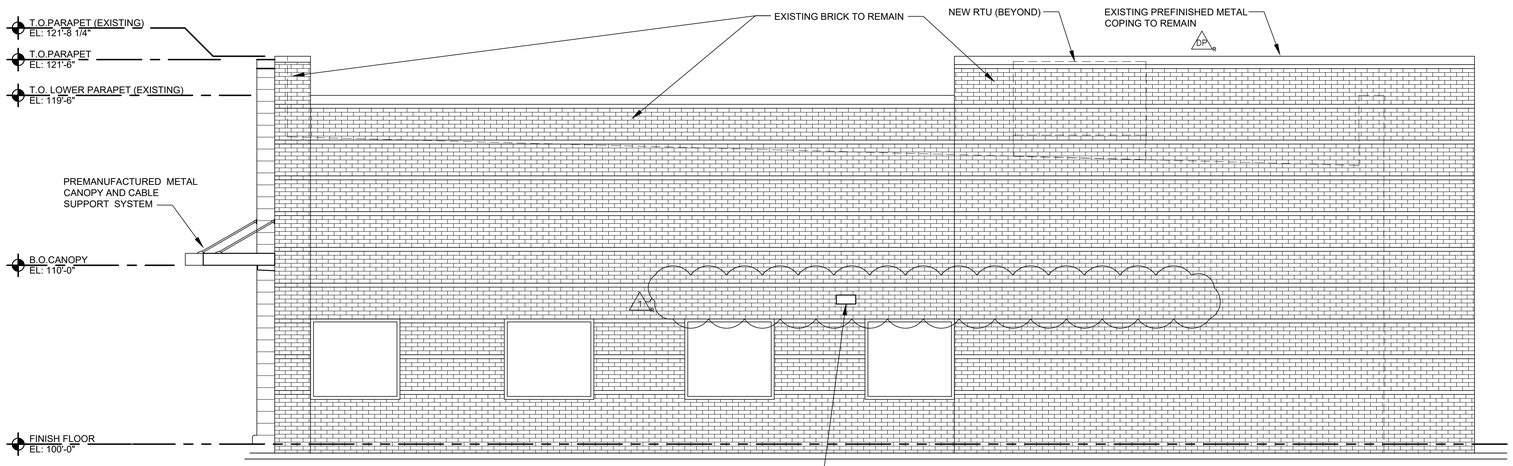
STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By: RMT/MSD
Project Number 320488
Permit Date 06-17-20

EXTERIOR ELEVATIONS

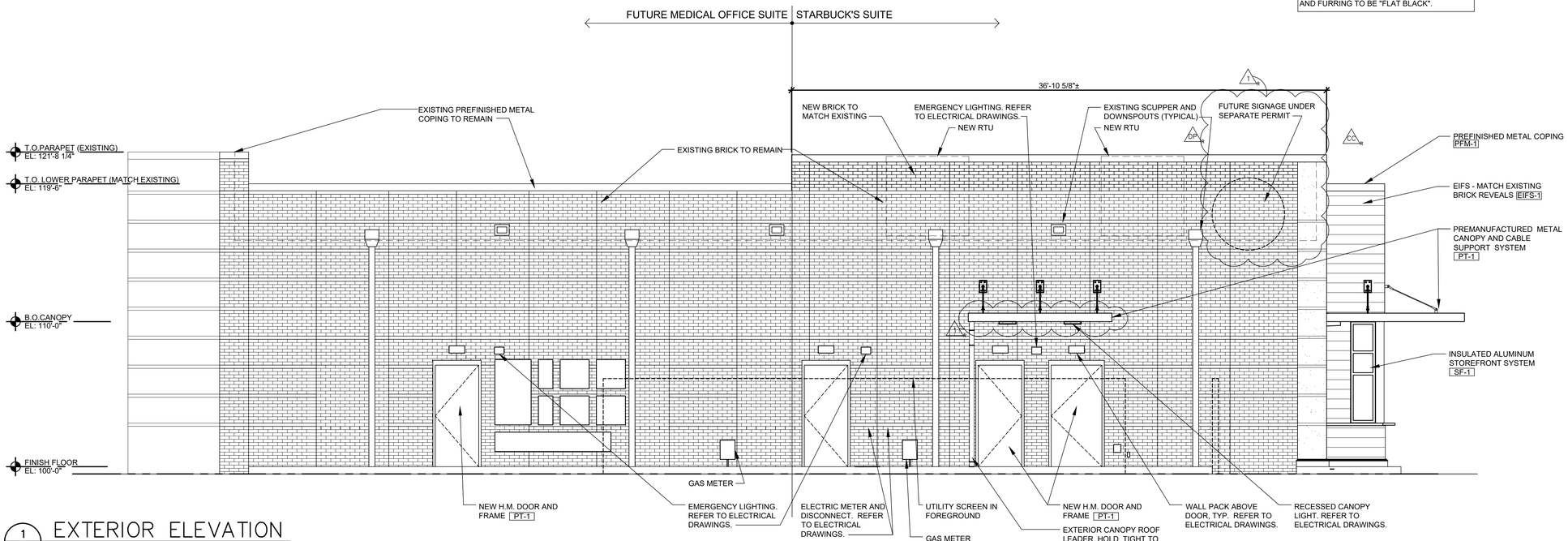
A201



2 A202 EXTERIOR ELEVATION

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

NOTE:
AT FIBER CEMENT BOARD, APPLY LIQUID APPLIED AIR/MOISTURE BARRIER TO EXTERIOR SHEATHING BEFORE INSTALLATION OF METAL FURRING. APPLY LIQUID APPLIED AIR/MOISTURE BARRIER TO FURRING BEFORE INSTALLATION OF FIBER CEMENT BOARD TRIM, COLOR OF SUBSTRATE AND FURRING TO BE "FLAT BLACK".



1 A202 EXTERIOR ELEVATION

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

Material Legend

Precast base: B-1	Manf.	Color: Match Cement fiber finish CF-1	Description: Base
Cement fiber siding: CF-1	Manf. Nichiha	Color: Siding: Composite wall panel Vintagewood -Redwood	Description: Front and (Street) End Wall Refer To Notes
E.I.F.S.: EIFS-1	Manf. StoCorp	Color: StoTherm Essence - Sto 32121 48 - C2 Standard Medium Finish	Description: Main Field
Paint: PT-1 PT-2	Manf. Sherwin Williams Sherwin Williams	Color: Black Galv. Metal Painted Match Adjacent finish	Description: Canopy Curb and H.M. Door
Metal: PFM-1	Manf. Metal Era	Color: Match Existing	Description: Prefinished For Metal Coping
Storefront: SF-1	Manf. Kawneer	Color: Kawneer #29 Black Anodized	Description: Storefront Framing
Aluminum Soffit system: SF-1	Manf. Armstrong	Color: Armstrong "Metal Works" linear 7160 Color - Flat Black	Description: Canopy soffit panels

Material Notes:

Install per manufacturers instruction and recommendations. Use manufacturer certified installer. Provide all trim and accessories as required to provide a complete installation.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.822.1600

MIDLAND
GENERAL CONTRACTORS INCORPORATED

Starbucks & Medical Office

155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
	Final Development Plan	05/27/20
	Owner Review 2	06/04/20
DP	DEVELOPMENT PLAN RESPONSE	06/17/20
CC	City Comments	06/30/20
1	OWNER REVISION 3	07/20/20
-	-	- - -
-	-	- - -
-	-	- - -

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

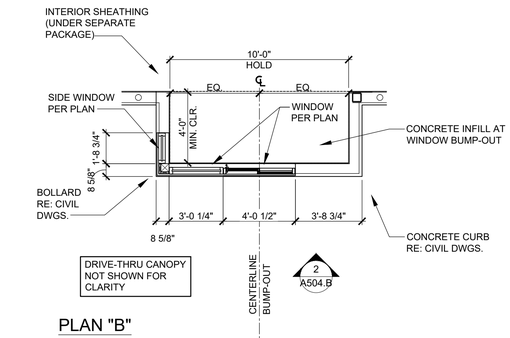
PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By: RMT/MSD
Project Number 320488

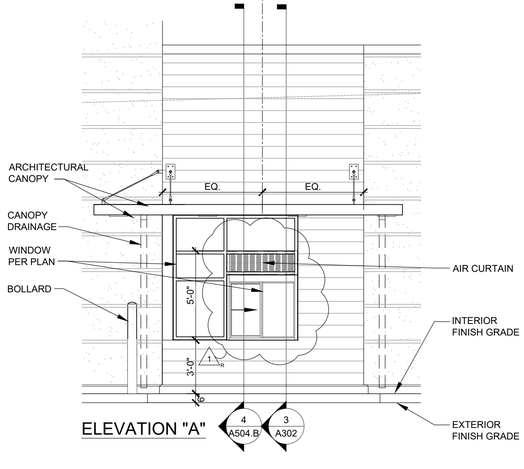
Permit Date 06-17-20

EXTERIOR ELEVATIONS

A202

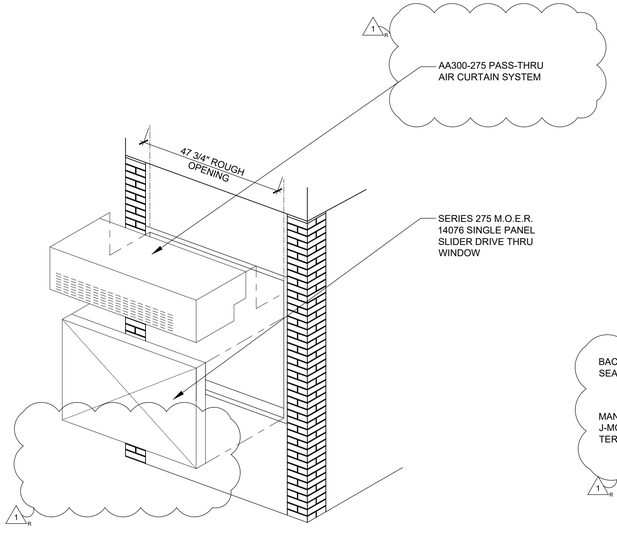


PLAN "B"

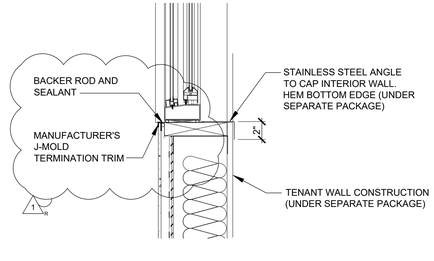


ELEVATION "A"

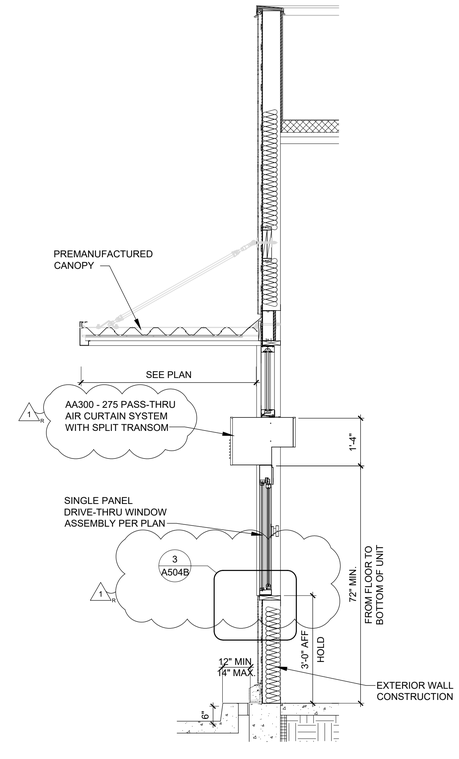
1 A504.B DRIVE-THRU WINDOW DETAILS
SCALE: 1/4" = 1'-0"



2 A504.B DRIVE-THRU WINDOW
SCALE: 3/4" = 1'-0"



3 A504.B DRIVE-THRU SHELF
SCALE: 1-1/2" = 1'-0"



4 A504.B DRIVE-THRU WINDOW
SCALE: 1/2" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Summen Drive, Suite 100, St. Louis, MO 63143 T: 314.[illegible]

MIDLAND
GENERAL CONTRACTORS INCORPORATED

Starbucks & Medical Office

155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
-	-Owner Review	05/12/20
1	OWNER REVISION 3	07/20/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

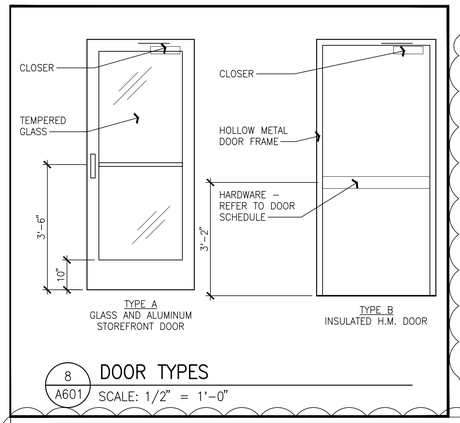
STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

PROFESSIONAL OF RECORD
BULLOCK, KEYMA L.
License NO. 2004011669
Expiration Date 12/31/20

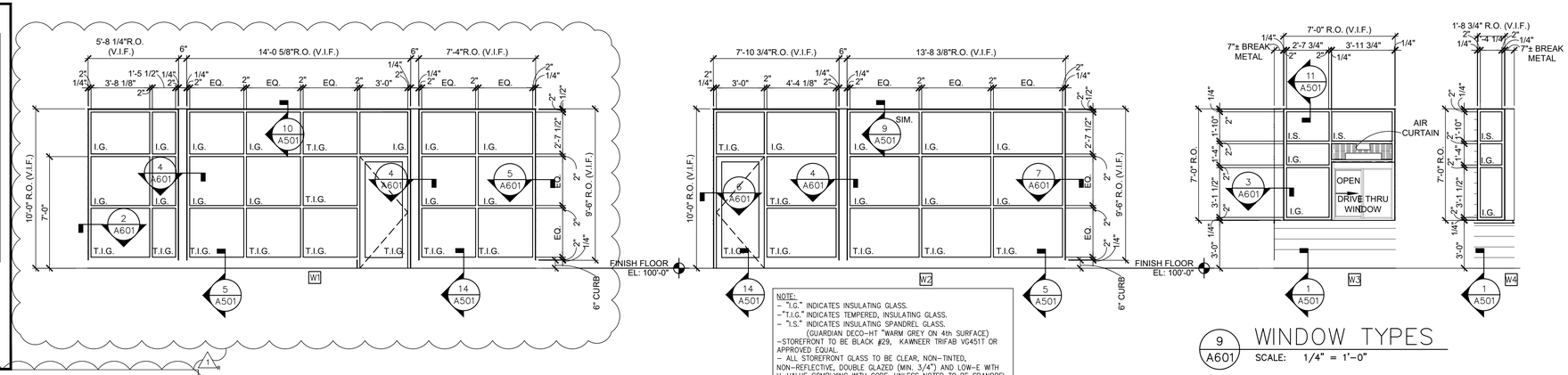
Drawn By/Checked By:	RMT/ALS
Project Number	320488
Permit Date	06-17-20

DRIVE THRU DETAILS

A504B



8 A601 DOOR TYPES
SCALE: 1/2" = 1'–0"



9 A601 WINDOW TYPES
SCALE: 1/4" = 1'–0"

HARDWARE SETS:

SET NO. 1 SINGLE ALUMINUM MAIN ENTRY/EXIT **ALL FINISHES TO MATCH DOOR**

NO.	ITEM	DESCRIPTION	MANUFACTURER	FINISH
3	HANGING DEVICES	TH2314/MPB91	McKINNEY	630
1	SECURING DEVICES	CD35A-NL-OP PANIC DEVICE	VON DUPRIN	628/630
2	SECURING DEVICES	C607 7-PIN CORE COMBINATED 'A' KEYWAY	FALCON LOCK	626
1	SECURING DEVICES	KB609-2 CUT CONTROL KEY 'A' KEYWAY	FALCON LOCK	-----
9	SECURING DEVICES	KB632-2 CUT USER KEY "A" KEYWAY	FALCON LOCK	-----
1	SECURING DEVICES	C953 7-PIN RIM CYLINDER HOUSING	FALCON LOCK	626
1	SECURING DEVICES	C987 7-PIN MORTISE CYLINDER HOUSING W/ AR CAM	FALCON LOCK	626
1	SECURING DEVICES	A08794-003 ADJUSTABLE RING, MORTISE CYL. 516-13/32	FALCON LOCK	626
1	OPERATING TRIM	108 DOOR PULL HANDLE	ROCKWOOD	630
1	CLOSING DEVICES	8916 DOOR CLOSER 8916 AF89P	DORMA	689
1	STOPS AND HOLDERS	473 DOOR STOP W/HOOK	ROCKWOOD	626
1	THRESHOLD	325 HALF SADDLE THRESHOLD (H.C. APPROVED)	NATIONAL GUARD	-----
1	SIGN	VINYL SIGN: "THIS DOOR MUST REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED	SETON	---

SET NO. 2 SERVICE DOOR, EXTERIOR (42" WIDE DOOR)

NO.	ITEM	DESCRIPTION	MANUFACTURER	FINISH
3	HANGING DEVICES	TH2314/MPB91 HINGE MACPRO BEARING 4.5 X 4.5	McKINNEY	630
1	SECURING DEVICES	C607 7-PIN CORE COMBINATED "A" KEYWAY	FALCON LOCK	626
1	SECURING DEVICES	I/O 2000L-031C AUTO LOCKING DOOR ALARM, IC; NO CTR INCLUDES MORTISE CYLINDER - PANIC HARDWARE	SUR-LOCK	-----
1	CLOSING DEVICES	8916 DOOR CLOSER 8916 AF89P	DORMA	689
1	PROTECTIVE TRIM UNITS	K1050 B4E KICKPLATE 10" X 40"	ROCKWOOD	630
1	ACCESSORIES	137NA WEATHER STRIP 17.5' 42" X 84"	NATIONAL GUARD	A
1	ACCESSORIES	DOOR SWEEP 18062CNB36	PEMKO	A
1	MISCELLANEOUS ITEMS	DS/1000 DOOR SCOPE	SECURITY PRODUCTS	SILVER
1	MISCELLANEOUS ITEMS	MCV309NWHGL DOOR BELL	NUTONE	AS SELECTED

SET NO. 3 EXIT DOOR, EXTERIOR (36" WIDE DOOR)

NO.	ITEM	DESCRIPTION	MANUFACTURER	FINISH
3	HANGING DEVICES	TH2314/MPB91 HINGE MACPRO BEARING 4.5 x 4.5	McKINNEY	630
1	SECURING DEVICES	C607 7-PIN CORE COMBINATED "A" KEYWAY	FALCON LOCK	626
1	SECURING DEVICES	I/O 2000L-031C AUTO LOCKING DOOR ALARM, IC; NO CTR INCLUDES MORTISE CYLINDER - PANIC HARDWARE	SUR-LOCK	-----
1	CLOSING DEVICES	8916 DOOR CLOSER 8916 AF89P	DORMA	689
1	PROTECTIVE TRIM UNITS	K1050 B4E KICKPLATE 8 X 34	ROCKWOOD	630
1	ACCESSORIES	137NA WEATHER STRIP 17" 36" X 84"	NATIONAL GUARD	A
1	ACCESSORIES	DOOR SWEEP 18062CNB36	PEMKO	A
1	MISCELLANEOUS ITEMS	DS/1000 DOOR SCOPE	SECURITY PRODUCTS	SILVER

STARBUCKS SHELL DOOR SCHEDULE

MK	DESCRIPTION	DOOR SIZE (W x H x D)	DOOR TYPE	DOOR MATERIAL	HARDWARE TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	REMARKS
01	STOREFRONT ENTRY	3'–0" X 7'–0" X 1 3/4"	A	ALUM.	01	ALUM.	BLACK	–	–	REFER TO DETAIL 1/A601 FOR SIGNAGE
03	EXTERIOR ACCESS	3'–0" X 7'–0" X 1 3/4"	B	H.M. (PAINTED)	02	H.M.	PAINT	3/A501	7/A501	REFER TO DETAIL 1/A601 FOR SIGNAGE
06	EXTERIOR ACCESS	3'–0" X 7'–0" X 1 3/4"	B	H.M. (PAINTED)	03	H.M.	PAINT	3/A501	7/A501	REFER TO DETAIL 1/A601 FOR SIGNAGE

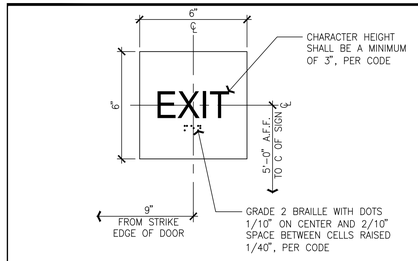
LANDLORD UTILITY AND FUTURE MEDICAL OFFICE SHELL DOOR SCHEDULE

MK	DESCRIPTION	DOOR SIZE (W x H x D)	DOOR TYPE	DOOR MATERIAL	HARDWARE TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	REMARKS
02	STOREFRONT ENTRY	3'–0" X 7'–0" X 1 3/4"	A	ALUM.	ENTRY FUNCTION W/ EMERGENCY EGRESS HARDWARE	ALUM.	BLACK	–	–	DOOR CLOSER TO BE INSTALLED. REFER TO DETAIL 1/A601 FOR SIGNAGE
04	EXTERIOR ACCESS	3'–0" X 7'–0" X 1 3/4"	B	H.M. (PAINTED)	KEYED EXIT W/ EMERGENCY EGRESS HARDWARE	H.M.	PAINT	3/A501	7/A501	DOOR CLOSER TO BE INSTALLED. REFER TO DETAIL 1/A601 FOR SIGNAGE
05	LL ROOM EXTERIOR ACCESS	3'–0" X 7'–0" X 1 3/4"	B	H.M. (PAINTED)	KEYED EXIT	H.M.	PAINT	3/A501	7/A501	---

NOTES:
1. ALL DOORS SHALL BE SHOP PREPARED FOR HARDWARE.
2. ALL EXTERIOR DOORS TO BE KEYED ALIKE. CONTRACTOR TO FIELD VERIFY.
3. ENTRANCE DOORS TO BE BLACK KAWNEER #29 ENTRANCE DOOR OR APPROVED EQUAL.
4. HARDWARE FOR ALL DOORS SHOULD BE LEVER PROFILE OR SIMILAR AND SHOULD NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

GENERAL CONTRACTOR NOTE:

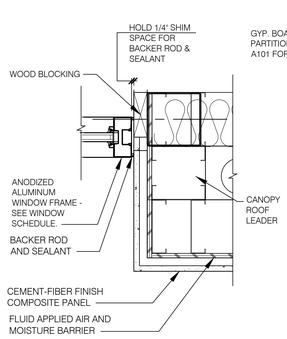
BLACK ALUMINUM MAY HAVE A LONG LEAD TIME. ALLOW ADDITIONAL TIME IN ORDERING TO MEET THE PROJECT SCHEDULE



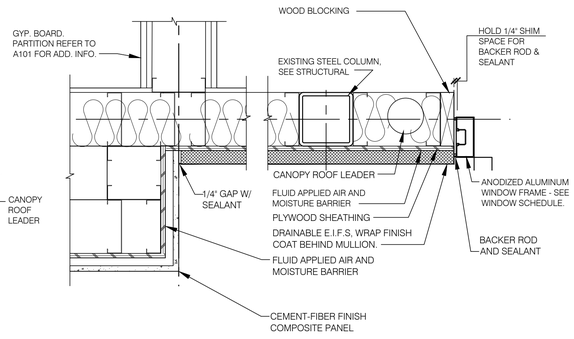
1 A601 TACTILE EXIT SIGNAGE
SCALE: 3" = 1'–0"

TACTILE EXIT SIGNS SHALL BE INSTALLED AT:
1. EACH GRADE LEVEL EXIT.
2. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM THAT LEADS TO A CORRIDOR OR HALLWAY AND IS DESIGNATED AS AN "EXIT ROUTE".
3. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE DESIGNATED WITH THE WORDS "TO EXIT".
4. SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF PROVIDED AT DOUBLE DOORS, INSTALL ON THE RIGHT. WHERE NO WALL SPACE IS AVAILABLE, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.

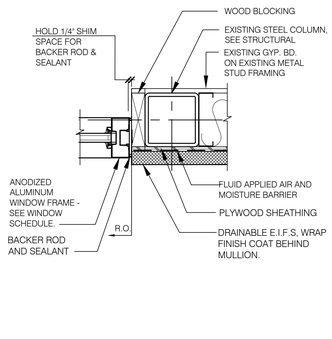
EXIT SIGNS SHALL MEET THE FOLLOWING CRITERIA:
1. CHARACTERS SHALL BE UPPERCASE.
2. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON–GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.
3. SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.



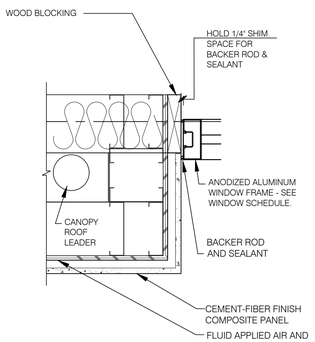
5 A601 DETAIL
SCALE: 1–1/2" = 1'–0"



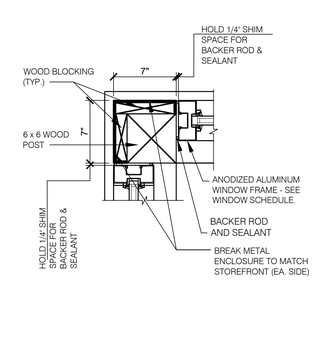
6 A601 DETAIL
SCALE: 1–1/2" = 1'–0"



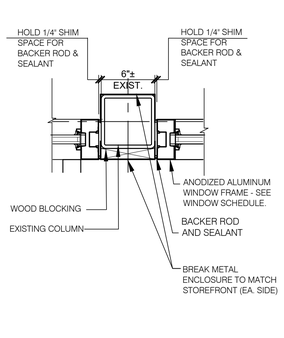
7 A601 DETAIL
SCALE: 1–1/2" = 1'–0"



2 A601 DETAIL
SCALE: 1–1/2" = 1'–0"



3 A601 DETAIL
SCALE: 1–1/2" = 1'–0"



4 A601 DETAIL
SCALE: 1–1/2" = 1'–0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

MIDLAND GENERAL CONTRACTORS INCORPORATED

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
1	OWNER REVISION 3	07/20/20
	Gwner Review	05/12/20

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL
CERTIFICATE OF AUTHORITY
#000329 12/31/21

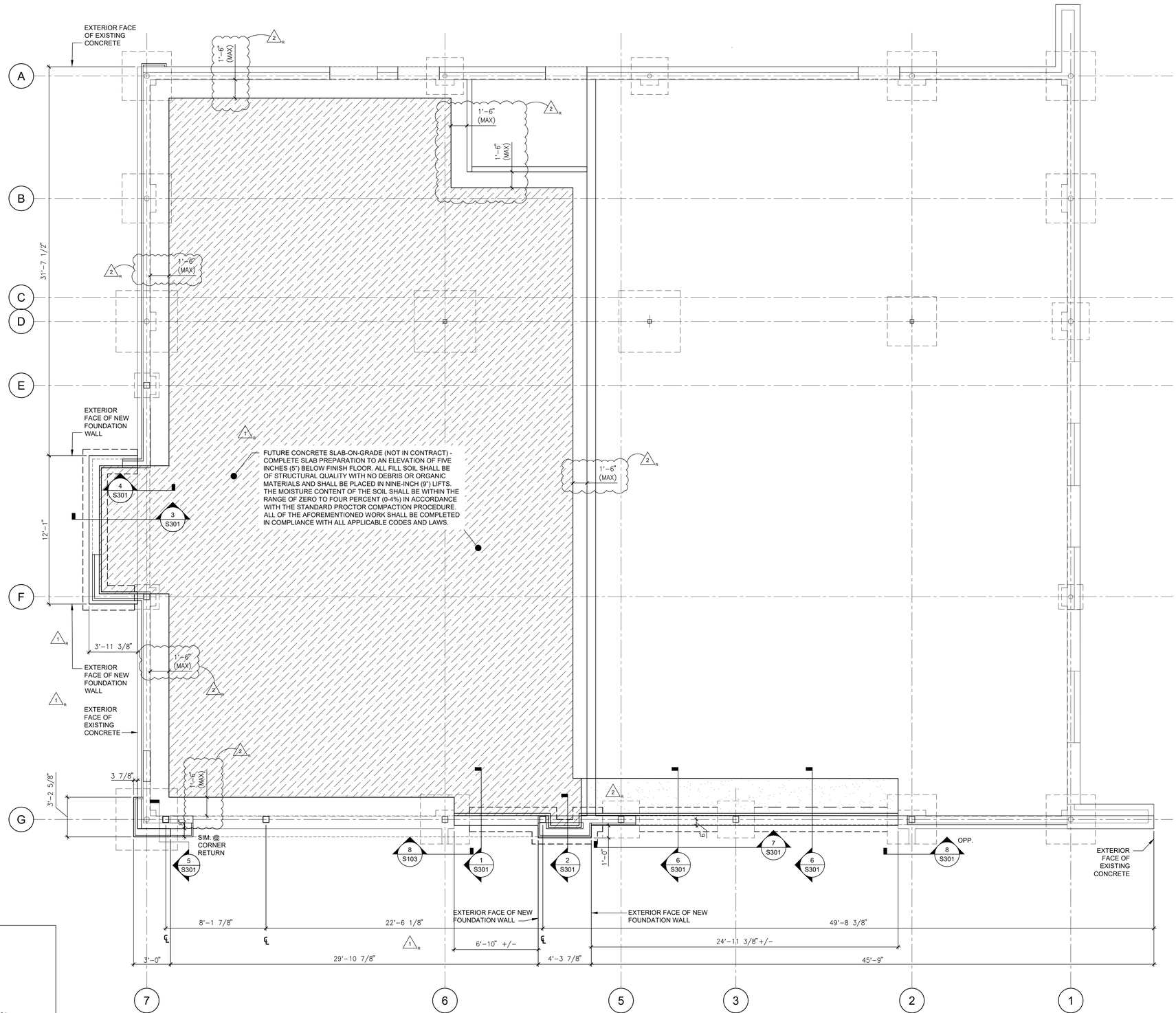
STATE OF MISSOURI
KEYMA L. BULLOCK
NUMBER A-2004011669
ARCHITECT
8/20/20

PROFESSIONAL OF RECORD
BULLOCK, KEYMA L
License NO. 2004011669
Expiration Date 12/31/20

Drawn By/Checked By:	MS/JVR
Project Number	320488
Permit Date	06-17-20

WINDOW AND DOOR SCHEDULES

A601



FOUNDATION NOTES:

1. FOR GENERAL NOTES SEE DRAWING S001.
2. FOR FOUNDATION DETAILS SEE SHEET S301.
3. REFERENCE SLAB ELEVATION SHALL BE ELEVATION 0'-0".
4. COORDINATE EXTENT OF SLAB INFILL WITH SHEET D101.
5. NEW 5" SLAB. SEE FOUNDATION NOTE SHEET S001.

NORTH

1 S101 FOUNDATION PLAN

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T:314.

MIDLAND
GENERAL CONTRACTOR

Starbucks & Medical Office

155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
1	Revision 1	07/09/20
2	Revision 3	07/20/20

CASCO DIVERSIFIED CORPORATION
ENGINEERING
CERTIFICATE OF AUTHORITY
#000613 12/31/20

8/20/20

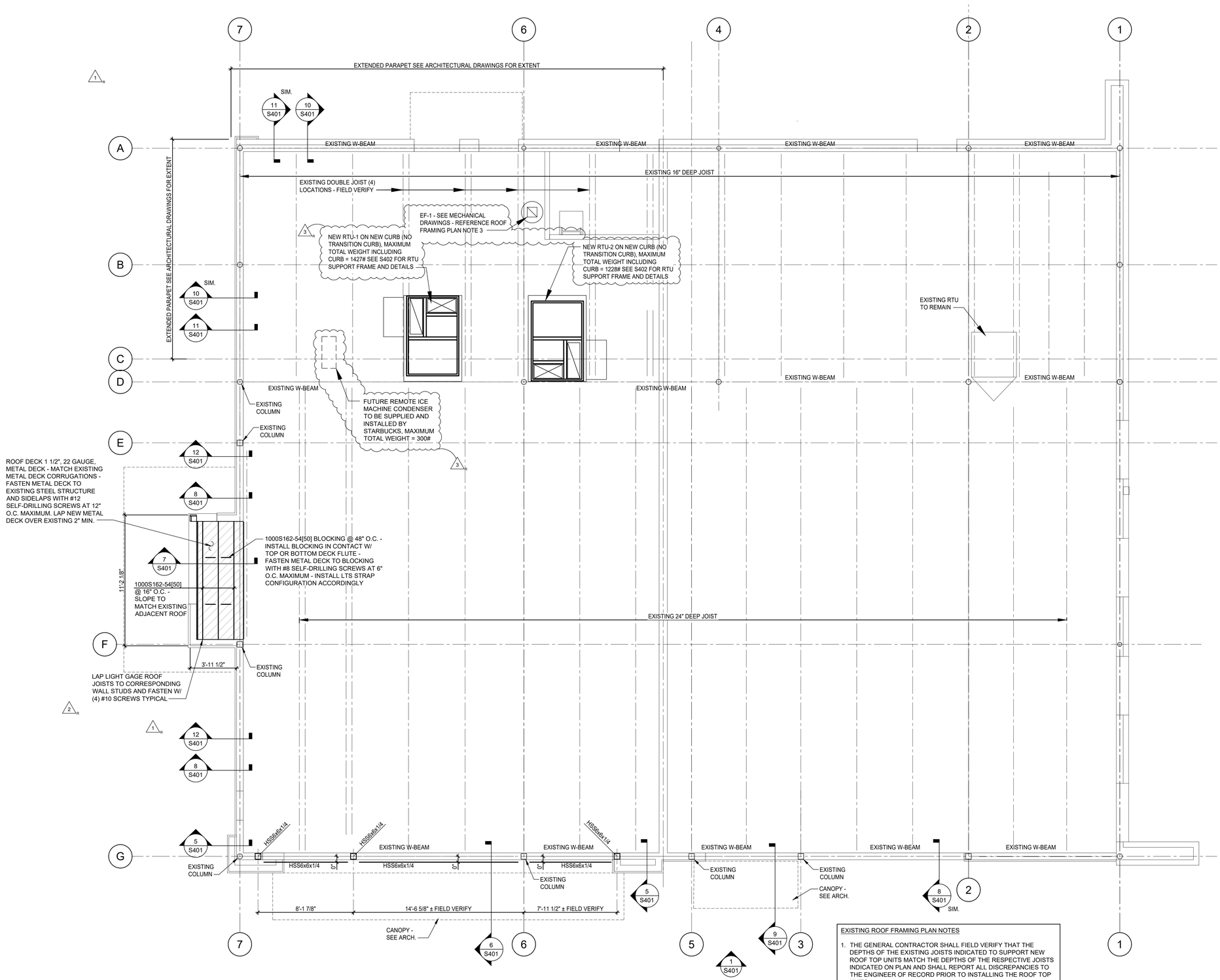
MARK A. SPALINGER
License Number: E-27576
Expiration Date: 12/31/21

Drawn By/Checked By: BWT/NDM
Project Number 320488

Permit Date 06-17-20

FOUNDATION PLAN

S101



NORTH

1 S201 ROOF FRAMING PLAN

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

EXISTING ROOF FRAMING PLAN NOTES

1. THE GENERAL CONTRACTOR SHALL FIELD VERIFY THAT THE DEPTHS OF THE EXISTING JOISTS INDICATED TO SUPPORT NEW ROOF TOP UNITS MATCH THE DEPTHS OF THE RESPECTIVE JOISTS INDICATED ON PLAN AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO INSTALLING THE ROOF TOP UNITS.
2. PLACE NEW UNITS WHERE SHOWN ON PLAN.
3. ALL ROOF DECK PENETRATIONS WITH DIMENSIONS LESS THAN 13" SHALL BE REINFORCED WITH GAGE SHEET METAL IN ACCORDANCE WITH THE STEEL DECK INSTITUTE RECOMMENDATIONS.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.

MIDLAND
GENERAL CONTRACTOR | BUILDER

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
1	Code Comments	6/30/20
2	Revision 1	07/09/20
3	Revision 3	07/20/20

CASCO DIVERSIFIED CORPORATION
ENGINEERING
CERTIFICATE OF AUTHORITY
#000613 12/31/20

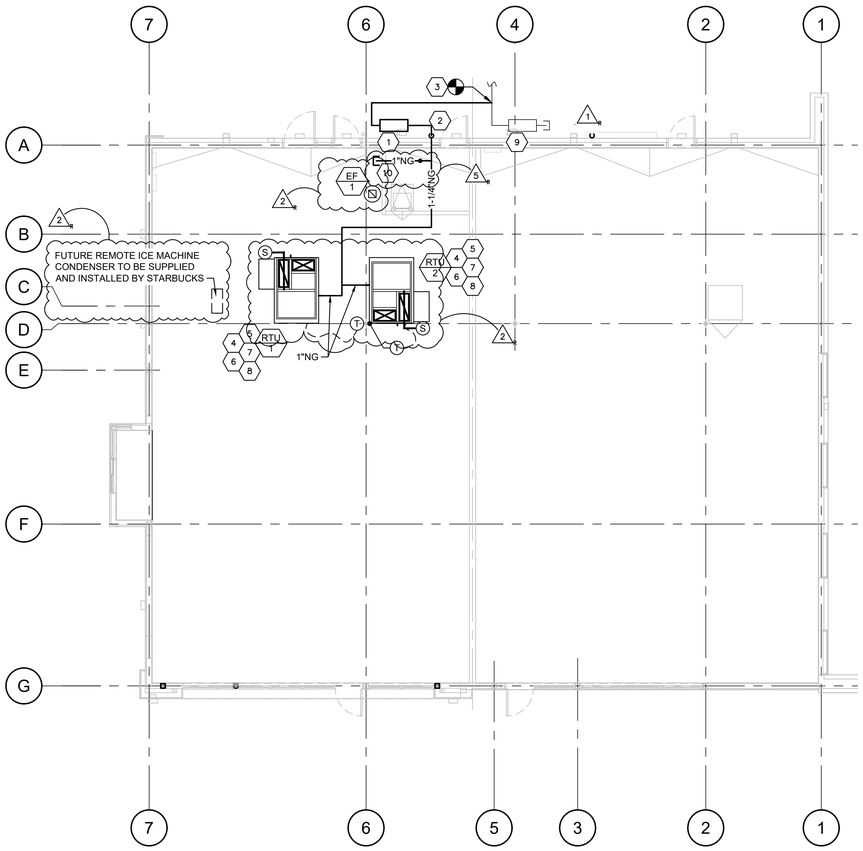
8/20/20

MARK A. SPALINGER
License Number: E-27576
Expiration Date: 12/31/21

Drawn By/Checked By: BWT/NDM
Project Number 320488
Permit Date 06-17-20

ROOF FRAMING PLAN

S201



NORTH

MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

KEYED NOTES

1. NEW GAS METER BY UTILITY. CONTRACTOR SHALL VERIFY THAT NEW GAS METER IS REGULATED FOR 7" W.C. PRESSURE, AND HAS A MINIMUM CAPACITY OF 534 CFH. GAS PIPING IS SIZED BASED ON SCHEDULE 40 METALLIC PIPE, 7" W.C. INLET PRESSURE, 0.5" W.C. PRESSURE DROP, 0.60 SPECIFIC GRAVITY, OVER A TOTAL DEVELOPED LENGTH OF 50'-0", AS PER THE 2015 INTERNATIONAL FUEL GAS CODE, TABLE 402.4(2). ANY DISCREPANCIES IN THIS INFORMATION SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND/OR PROJECT ENGINEER. FIELD VERIFY EXTENT OF WORK PRIOR TO INSTALLATION OF PIPING.
2. CONTRACTOR SHALL EXTEND NEW 1-1/4" GAS RISER UP TO ROOF OUTSIDE OF BUILDING, TIGHT TO WALL. PROVIDE AN APPROVED GAS SHUT-OFF AT 48" ABOVE FINISHED GRADE.
3. UTILITY SHALL BE RESPONSIBLE FOR SPLITTING GAS SERVICE.
4. CONTRACTOR TO EXTEND AND CONNECT NEW GAS PIPING TO NEW HVAC UNIT, AS INDICATED. SEE DETAIL ON SHEET M201.
5. CONTRACTOR SHALL INSTALL NEW CONTRACTOR PROVIDED HVAC UNIT AND CONTRACTOR PROVIDED ROOF CURB AS INDICATED ON PLANS, SCHEDULE AND NOTES. PROVIDE NEW ROOF OPENINGS AND STRUCTURAL SUPPORT, AS SHOWN ON STRUCTURAL DRAWINGS. PROVIDE FULL SIZE DUCT DROPS 2'-0" BELOW STRUCTURE FOR FUTURE CONNECTION BY TENANT.
6. PROVIDE FULL SIZE CONDENSATE TRAP/LINE. TERMINATE IN A CODE APPROVED LOCATION. SEE DETAIL ON SHEET M201.
7. FURNISH AND INSTALL DUCT SMOKE DETECTOR (SYSTEM SENSOR #D4120) IN RETURN AIR DROP FROM UNIT. WIRE DUCT SMOKE DETECTOR TO BUILDING FIRE ALARM CONTROL PANEL OR FURNISH AND INSTALL A REMOTE AUDIBLE/VISUAL ALARM DEVICE WITH A REMOTE TEST SWITCH (SYSTEM SENSOR #RTS2-AOS) LOCATED IN AN APPROVED LOCATION. FIELD VERIFY EXACT REQUIREMENTS. CONTRACTOR SHALL TEST SYSTEM TO INSURE PROPER FUNCTION PRIOR TO TENANT OCCUPYING SPACE.
8. MOUNT THERMOSTAT TO COLUMN, AS SHOWN, AT 48" ABOVE FINISHED FLOOR. NOTE: THERMOSTAT TO BE USED FOR STARTUP PURPOSES ONLY, AND WILL BE REPLACED BY TENANT'S ENERGY MANAGEMENT SYSTEM. SEE SCHEDULE SHEET 201 FOR FURTHER DETAIL.
9. EXISTING GAS METER TO REMAIN AND BE REUSED BY FUTURE TENANT. TEMPORARILY CAP STUB-IN FOR FUTURE CONNECTION. FUTURE TENANT IS ESTIMATED TO REQUIRE 250 CFH OF GAS.
10. TAP OFF GAS LINE OF SIZE SHOWN. DROP BELOW ROOF AND BRING TO FUTURE TENANT SPACE AND CAP. PIPE IS SIZED TO SUPPLY 130 CFH OF GAS PER TENANT SPECIFICATIONS.

SYMBOLS LEGEND

—NG—	NEW NATURAL GAS STUB-IN
M	NEW GAS METER
EF-1	EQUIPMENT/FIXTURE DESIGNATION
(1)	KEYED NOTE
1	REVISION NUMBER
TYP.	TYPICAL
F.V.	FIELD VERIFY
T	THERMOSTAT
S	SMOKE DETECTOR

SPECIFICATIONS

GENERAL MECHANICAL CONDITIONS

TENANT SHALL FURNISH SELECTED MECHANICAL EQUIPMENT, ACCESSORIES AND CONTROLS AS SCHEDULED AND AS SPECIFIED. THE MECHANICAL SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR DELIVERY COORDINATION, RECEIVING, STORING, SETTING, STARTUP AND INSTALLING ALL TENANT FURNISHED EQUIPMENT AS WELL AS THE ONE YEAR PARTS AND LABOR WARRANTY FROM THE DATE OF STORE OPENING.

A. SCOPE

1. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROPERLY INSTALL AIR CONDITIONING SYSTEMS WHERE SHOWN ON DRAWINGS AND AS SCHEDULED.
2. PROVIDE EQUIPMENT AS SPECIFIED TOGETHER WITH ALL NECESSARY DUCTS, GRILLES, REGISTERS, CONTROLS, PIPING, LOW VOLTAGE FANS, CONTROL WIRING, HANGERS, STANDS, EQUIPMENT SUPPORTS, FLASHING AT EQUIPMENT, DUCT AND PIPE INSULATION, UNLESS OTHERWISE NOTED.
3. RELATED WORK BY OTHERS:
   a. PAINTING EXCEPT AS HEREIN SPECIFIED.
   b. LINE VOLTAGE WIRING AND CONDUIT.
   c. ELECTRICAL SUPPLY CONNECTION TO EQUIPMENT.

B. ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND ANY LANDLORD REQUIREMENTS AS SPECIFIED IN THE EXECUTED LEASE AGREEMENT. CONTRACTOR SHALL VERIFY AND COORDINATE SCOPE OF WORK WITH TENANT AND LANDLORD.

C. THE CONTRACTOR SHALL EXAMINE THE PREMISES AND VERIFY THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS PART OF THE WORK OR THAT WILL IN ANY MANNER AFFECT THE WORK UNDER CONTRACT. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONDITIONS FOUND DURING THE EXECUTION OF CONTRACTED WORK. THE CONTRACTOR SHALL COOPERATE WITH ALL OTHER TRADES SO THAT THE INSTALLATION OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE CONSTRUCTION MANAGER ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN DOCUMENTS.

D. ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE, WITH CONNECTIONS, ETC., IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. SHOULD A CONFLICT EXIST BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CONSTRUCTION MANAGER WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE, SUBSEQUENTLY, IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR AFTER AWARD OF THE CONTRACT.

E. ALL MECHANICAL EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE STATE MECHANICAL CODE, THE STATE BUILDING CODE, THE STATE ENERGY CODE, NFPA 90A, 96.101 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.

F. DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ANY ASSOCIATED FEES.

G. THE CONTRACTOR SHALL INSTALL ALL PIPING, DUCTWORK, FIXTURES AND EQUIPMENT AS REQUIRED TO CONFORM THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE CEILING HEIGHTS AND HEADROOM AND MAKE ALL EQUIPMENT REQUIRING MAINTENANCE OR REPAIR ACCESSIBLE.

H. THE CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS AS SHOWN, NOTED AND SPECIFIED. EQUIPMENT MAY NOT BE SUBSTITUTED UNLESS WRITTEN APPROVAL BY THE ENGINEER OR TENANT'S REPRESENTATIVE IS OBTAINED. ANY UNAUTHORIZED CHANGES SHALL BE REMOVED AT CONTRACTOR'S EXPENSE IF DEEMED NECESSARY BY ENGINEER OR TENANT'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED CHANGE TO RELATED WORK CAUSED BY THE SUBSTITUTION OF ANY ITEMS OF MATERIALS OR EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.

HVAC UNITS

A. CONTRACTOR SHALL COORDINATE THE DELIVERY, RECEIVING, STORAGE, RIGGING, HOISTING, INSTALLATION AND START UP OF HEATING AND COOLING UNITS INCLUDING ALL ACCESSORIES AS SCHEDULED AND AS INDICATED ON THE DRAWINGS.

B. HVAC UNITS SHALL BE FURNISHED COMPLETE WITH CASING, REFRIGERATION SYSTEM, HEATING SECTION (AS SCHEDULED ON DRAWINGS), FANS, MOTORS AND DRIVES, FILTERS, AUTOMATIC CONTROLS, AND OPTIONS AND ACCESSORIES AS SCHEDULED ON DRAWINGS.

C. TEMPERATURE CONTROLS.

1. HVAC UNITS SHALL BE FURNISHED WITH FACTORY INSTALLED AND TESTED COMPONENTS TO PROVIDE TWO STAGES OF COOLING, TWO STAGES OF HEATING (WHERE APPLICABLE), ANTI-RECYCLE TIMER, FIVE (5) MINUTE COMPRESSOR STAGING RELAY, AND OTHER ITEMS AS SCHEDULED ON DRAWINGS.

D. SEQUENCE OF OPERATION

1. OCCUPIED HOURS.
   a. UNIT OUTDOOR AIR DAMPER SHALL OPEN TO ITS MINIMUM POSITION AND UNIT SUPPLY FAN SHALL OPERATE CONTINUOUSLY.
   b. UNIT COMPRESSOR(S) SHALL CYCLE OR HEAT EXCHANGER SHALL STAGE TO MAINTAIN SPACE SETPOINT.
   c. UNIT ECONOMIZER CYCLE SHALL BE INITIATED UPON A SIGNAL FROM OUTDOOR AND RETURN AIR TEMPERATURE AND ENTHALPY SENSORS. OUTDOOR AIR DAMPER, RETURN AIR DAMPER, AND UNIT COMPRESSOR(S) SHALL CYCLE TO MAINTAIN SPACE SETPOINT. ECONOMIZER CYCLE SHALL OVER RIDE CO2 MONITORING SYSTEM.
2. UNOCCUPIED HOURS.
   a. UNIT OUTDOOR AIR DAMPER SHALL REMAIN CLOSED AND UNIT SUPPLY FAN SHALL CYCLE ON A SIGNAL FROM SPACE SENSOR.
   b. UNIT COMPRESSOR(S) SHALL CYCLE OR HEAT EXCHANGER SHALL STAGE WITH UNIT SUPPLY FAN TO MAINTAIN SPACE SETPOINT.
3. SMOKE ALARM (WHERE REQUIRED).
   a. UNIT OUTDOOR AIR DAMPER SHALL CLOSE AND UNIT SUPPLY FAN SHALL STOP ON A SIGNAL FROM DUCT SMOKE DETECTOR. DUCT SMOKE DETECTOR SHALL SEND A SIGNAL TO REMOTE ALARM DEVICE.

EXECUTION

A. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" AWAY FROM EXHAUST DISCHARGE OPENINGS AND PLUMBING VENT STACKS.

B. PROVIDE UL APPROVED FIRE DAMPERS FOR ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS. INSTALL FIRE DAMPERS AS PER MANUFACTURER'S DIRECTIONS AND AS PER UL GUIDLINES.

C. SUPPLY, RETURN AND POSITIVE PRESSURE EXHAUST DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA SEAL CLASS "C".

D. CORE-DRILL OR SAW-CUT EXISTING WALLS, ROOF, ETC. AS REQUIRED FOR PIPING OR DUCTWORK AND FIRE-STOP OPENING AROUND PIPE OR DUCTWORK. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING OR CUTTING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

E. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE CUT FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.

F. PROVIDE 3 SETS OF PLEATED DISPOSABLE FILTERS. ONE SET TO BE USED UNTIL COMPLETION OF CONSTRUCTION PHASE. INSTALL ONE SET AT COMPLETION OF CONSTRUCTION PHASE AND DELIVER ONE SET TO OWNER AND LABEL EACH SET OF FILTERS TO DENOTE THEIR RESPECTIVE HVAC UNITS.

G. PROVIDE TWO OPERATION AND MAINTENANCE MANUALS BOUND IN 8-1/2" X 11" PAGE BINDERS, TITLED "OPERATION AND MAINTENANCE MANUAL". SUBDIVIDE BINDER CONTENTS WITH PAGE DIVIDERS BY SYSTEM AND EQUIPMENT. INCLUDE ALL SHOP DRAWINGS, AS-BUILT DRAWINGS AND WARRANTIES. SUBMISSION OF THESE DOCUMENTS SHALL BE WITHIN 90 DAYS OF SYSTEM ACCEPTANCE, PER ENERGY CODE, AND A REQUIREMENT FOR FINAL PAYMENT.

TESTING, ADJUSTING, BALANCING AND INSPECTION

A. WORK SHALL BE PERFORMED AFTER THE COMPLETE INSTALLATION AND STARTUP OF ALL EQUIPMENT, DUCT SYSTEMS AND TEMPERATURE AND ENERGY MANAGEMENT CONTROLS AND COMPLETED PRIOR TO TURNOVER FOR THE START OF STOCKING.

B. CONTRACTOR SHALL SUBMIT TEST AND BALANCE REPORT TO GENERAL CONTRACTOR FOR SUBMITTAL TO TENANT'S PROJECT MANAGER AND LOCAL CODE AUTHORITY (IF REQUIRED).

C. TESTING AND BALANCING CONTRACTOR SHALL ALSO INSPECT THE COMPLETED AND OPERATIONAL HVAC EQUIPMENT, DUCT SYSTEMS AND TEMPERATURE AND ENERGY MANAGEMENT CONTROLS PRIOR TO TURNOVER OF THE STORE FOR THE START OF STOCKING. TESTING AND BALANCING CONTRACTOR SHALL SUBMIT THE COMPLETED TENANT'S HVAC FIELD INSPECTION REPORT TO THE GENERAL CONTRACTOR FOR SUBMITTAL TO TENANT'S PROJECT MANAGER FOR REVIEW.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEES SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.645.2200

MIDLAND

Starbucks & Medical Office

155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
1	Owner Review	05/12/20
2	Clarifications	07/09/20
5	Owner Revision 3	07/20/20
	Clarifications	08/06/20

CASCO DIVERSIFIED CORPERATION
PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY #000613
EXP. 12/31/21

STATE OF MISSOURI
MICHAEL CHARLES GRAPPERHAUS
NUMBER PE-2008019543
PROFESSIONAL ENGINEER
8/20/20

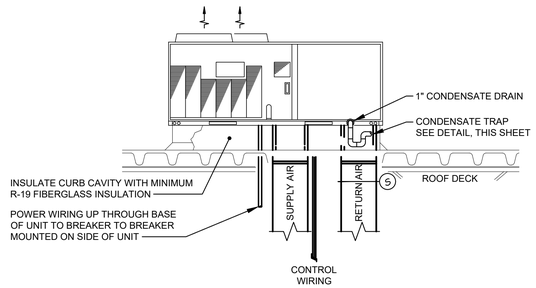
PROFESSIONAL OF RECORD
MICHAEL C. GRAPPERHAUS
License NO.: PE-2008019543
Expiration Date: 12/31/20

Drawn By/Checked By: BAM/MCG
Project Number 320488

Permit Date 06-17-20

MECHANICAL PLAN AND SPECIFICATIONS

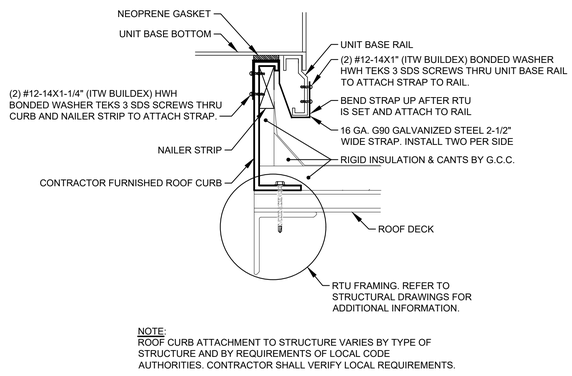
M101



NOTE:
COORDINATE ALL ROOF PENETRATION REQUIREMENTS WITH LANDLORD'S ROOFING CONTRACTOR. UNITS SHALL BE INSTALLED LEVEL TO ENSURE PROPER CONDENSATE DRAINAGE.

1 MP2.0 TYPICAL ROOFTOP UNIT INSTALLATION

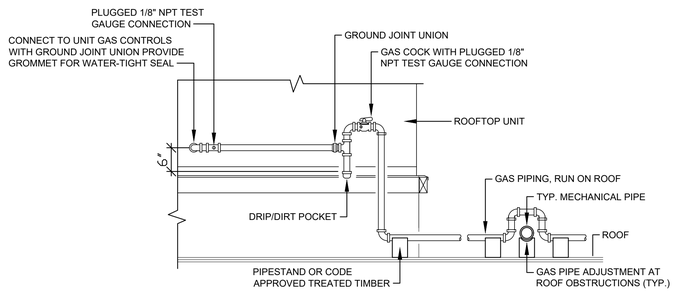
SCALE: NOT TO SCALE



NOTE:
ROOF CURB ATTACHMENT TO STRUCTURE VARIES BY TYPE OF STRUCTURE AND BY REQUIREMENTS OF LOCAL CODE AUTHORITIES. CONTRACTOR SHALL VERIFY LOCAL REQUIREMENTS.

3 MP2.0 ROOFTOP UNIT CURB ATTACHMENT

SCALE: NOT TO SCALE



NOTES:
CONTRACTOR SHALL VERIFY ALL MECHANICAL GAS FIRED EQUIPMENT CONNECTION LOCATIONS IN THE FIELD PRIOR TO INSTALLING ANY GAS PIPE MAINS OR BRANCHES.

COORDINATE PIPING SUPPORTS WITH LANDLORD'S ROOFING CONTRACTOR.

5 MP2.0 ROOFTOP UNIT GAS PIPING DETAIL

SCALE: NOT TO SCALE

ROOFTOP UNIT SCHEDULE (gas heat/elec. cool)

MARK	MFR./MODEL	DISCHARGE	TONS	ESP	CFM	OUTSIDE AIR CFM (MAX.)	ENTERING CONDITIONS	GROSS COOLING CAPACITY (MBH)		(S)EER	FUEL TYPE	HEATING CAPACITY (MBH)		SSE %	ELECTRICAL DATA			MCA/MOCP	APRX. UNIT WEIGHT (LBS.)	OPTIONS/ ACCESSORIES
								TOTAL	SENSIBLE			INPUT	OUTPUT		VOLTS	PHASE	FREQ			
RTU-1	CARRIER 48HCED11A2	VERTICAL	10.0	1.00	4,000	1000	80.4°F DB 65.8°F WB @ 96.4°F AMBIENT	116.1	93.8	12.0 EER	NATURAL GAS	224	184	82	208	3	60	54.0 / 60	1,427	1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
RTU-2	CARRIER 48HCED08A2	VERTICAL	7.5	1.00	3,000	750	80.4°F DB 65.8°F WB @ 96.4°F AMBIENT	90.2	73.5	12.0 EER	NATURAL GAS	180	148	82	208	3	60	41.0 / 50	1,228	1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

OPTIONS/ACCESSORIES:
1) FACTORY INSTALLED MEDIUM STATIC BELT DRIVE.
2) FACTORY INSTALLED, FIELD WIRED DUAL ENTHALPY ECONOMIZER W/ BAROMETRIC RELIEF AND HOODS.
3) FACTORY INSTALLED LOUVERED HAIL GUARDS.
4) FACTORY INSTALLED, FIELD WIRED NON-FUSED DISCONNECT (REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION).
5) FACTORY INSTALLED, FIELD WIRED NON-POWERED CONVENIENCE OUTLET (REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION).
6) FACTORY FURNISHED, FIELD INSTALLED THRU THE BASE ELECTRICAL & THRU THE CURB GAS KIT.
7) FACTORY FURNISHED, FILED INSTALLED FLUE EXTENSION KIT.
8) CONTRACTOR FURNISHED, FIELD INSTALLED SLOPED ROOF CURB.
9) TENANT FURNISHED, FIELD INSTALLED/WIRED 7-DAY PROGRAMMABLE THERMOSTAT, WITH NIGHT SETBACK AND AUTO-CHANGEOVER (HONEYWELL RTH8500D OR EQUIVALENT).
10) CONTRACTOR FURNISHED, THREE (3) SETS OF PLEATED FILTERS (REFER TO SPECIFICATIONS ON SHEET M101 FOR ADDITIONAL INFORMATION).

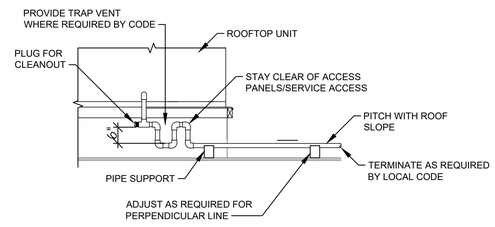
NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STARTUP AND WARRANTY WORK. VERIFY ELECTRICAL POWER PRIOR TO INSTALLING UNITS. FAILURE TO DO SO SHALL RESULT IN CONTRACTOR FURNISHING CORRECT UNITS OR POWER AT NO ADDITIONAL COST TO TENANT.

EQUIVALENT UNITS MAY BE PROVIDED. ACCEPTABLE ALTERNATIVE MANUFACTURERS ARE TRANE AND LENNOX.

EXHAUST FAN SCHEDULE

MARK	MFR./MODEL	CFM	RPM	ESP	DRIVE	SONES (MAX)	ELECTRICAL DATA				NOTES	SERVICE
							VOLTS	PHASE	FREQ.	HP		
EF-1	GREENHECK G-090-VG	500	1405	0.31	DIRECT	6.2	115	1	60	1/10	1, 2.	RESTROOMS/OVENS

NOTES:
1) PROVIDE WITH FACTORY ROOF CURB AND BACKDRAFT DAMPER.
2) PROVIDE WITH SPEED CONTROLLER.



4 MP2.0 ROOFTOP UNIT CONDENSATE PIPING DETAIL

SCALE: NOT TO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.781.2777

MIDLAND

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
2	Owner Revision 3	07/20/20
	Owner Review	05/12/20

CASCO DIVERSIFIED CORPERATION
PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY #000613
EXP. 12/31/21

STATE OF MISSOURI
MICHAEL CHARLES GRAPPERHAUS
NUMBER PE-2008019543
PROFESSIONAL ENGINEER
8/20/20

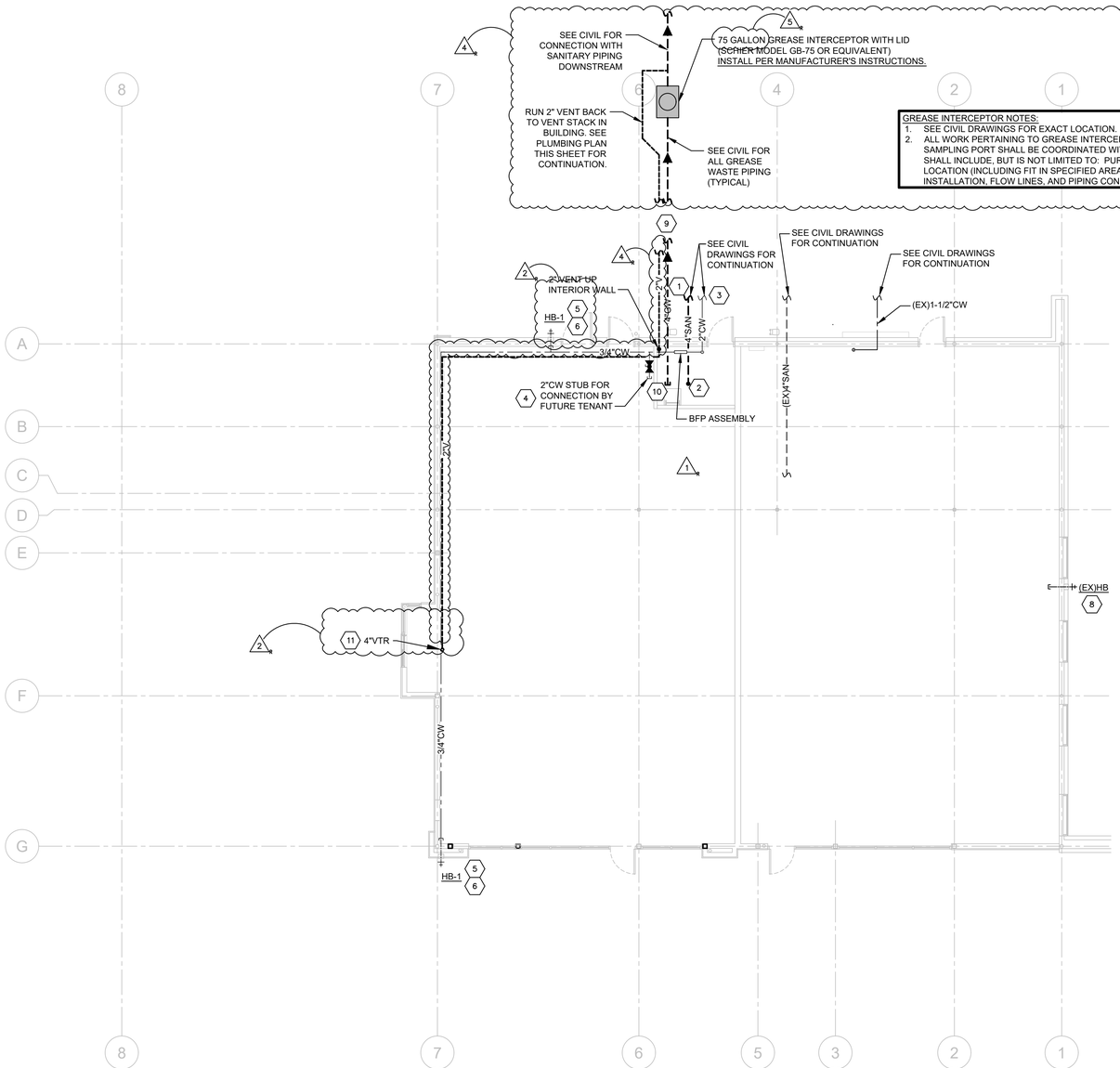
PROFESSIONAL OF RECORD
MICHAEL C. GRAPPERHAUS
License NO.: PE-2008019543
Expiration Date: 12/31/20

Drawn By/Checked By: BAM/MCG
Project Number 320488

Permit Date 06-17-20

MECHANICAL SCHEDULES AND DETAILS

M201



SYMBOLS LEGEND

GW	NEW GREASE WASTE STUB-IN
SS	NEW SANITARY STUB-IN
G	NEW NATURAL GAS STUB-IN
CW	NEW WATER STUB-IN (WITH GATE VALVE)
M	NEW GAS METER
EQUIPMENT/FIXTURE DESIGNATION	
KEYED NOTE	
REVISION NUMBER	
TYP.	TYPICAL
F.V.	FIELD VERIFY

CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT

1.) CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.

2.) COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT IS: CASCO CIVIL
ST. LOUIS, MO

CIVIL SHT. DWG. NO.	CIVIL SHEET DWG. TITLE	REV. NO.	REV. DATE	REV. NO.	REV. DATE	REV. NO.	REV. DATE
C0.0	COVER						
C1.0	DEMOLITION PLAN						
C2.0	SITE AND UTILITY PLAN						
C3.0	GRADING PLAN						
C4.0	SITE DETAILS						
C5.0	EROSION & SEDIMENT CONTROL PLAN						
C5.1	EROSION & SEDIMENT CONTROL DETAILS						

COORDINATION CHECKED BY DISCIPLINE:	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

SPECIFICATIONS

GENERAL CONDITIONS

1. THE GENERAL AND SPECIAL CONDITIONS OF THE ARCHITECTURAL SPECIFICATIONS SHALL BE INCLUDED AS PART OF THESE DOCUMENTS.
2. ALL MATERIALS SHALL BE NEW, UNUSED, AND THE BEST OF THEIR RESPECTIVE KINDS AND FREE FROM DEFECTS.
3. THE CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS AND OBTAIN ALL PERMITS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH ALL WORK UNDER THIS CONTRACT. ALL WORK SHALL BE FURNISHED AND INSTALLED IN FULL ACCORDANCE WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.
4. DRAWINGS ARE DIAGRAMMATIC ONLY, INTENDING TO SHOW GENERAL RUNS AND LOCATIONS OF THE WORK AND ARE NOT INTENDED TO BE RIGID IN SPECIFIC DETAIL.
5. THE CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE SITE FOR HIS WORK BEFORE HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
6. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME.
7. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH LIGHTING PLANS, REFLECTED CEILING PLANS, SPRINKLER PLANS AND ALL OTHER TRADES.
8. THE INSTALLATION OF ALL EQUIPMENT AND MATERIALS REQUIRING ACCESS SHALL BE MADE IN SUCH MANNER AS TO MAKE THE EQUIPMENT AND MATERIALS READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIRS.
9. STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE ONLY IN DESIGNATED SPACES.
10. CONSTRUCTION DEBRIS AND RUBBISH GENERATED BY THE CONTRACTOR SHALL BE REMOVED FROM PREMISES AS OFTEN AS NECESSARY OR AS DIRECTED TO MAINTAIN A CLEAN AND WORKABLE AREA.
11. ALL WORK AND EQUIPMENT SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF FINAL PAYMENT AND ACCEPTANCE.
12. ALL WORK AND EQUIPMENT WITHIN THE CONTRACT AREA FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE CLEANED TO THE SATISFACTION OF THE OWNER BEFORE TURNING SAME OVER TO THE OWNER.
13. CONNECT NEW WORK TO EXISTING IN A NEAT AND APPROVED MANNER.
14. ALL DESIGN SHALL INCORPORATE CURRENT ASHRAE METHODS.

PLUMBING SPECIFICATIONS

1. SUPPLY PIPING SHALL BE TYPE "L" COPPER INSTALLED WITH LEADLESS SOLDER. CONDENSATE PIPING ON ROOF SHALL BE COPPER OR PVC. COLD WATER SUPPLY PIPING SHALL BE INSULATED WITH A MINIMUM 1/2" FIBERGLASS WITH VAPOR PROOF ALL SERVICE JACKET OR EQUIVALENT CLOSED CELL FOAM INSULATION, AS ALLOWED BY LOCAL CODES, FOR INSTALLATION IN RETURN AIR PLENUMS. NATURAL GAS PIPE 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 THICKNESS (ANSI B36.10) BLACK STEEL FINISHED WITH RUST INHIBITIVE PRIMER AND PAINT.
2. HANGERS, SUPPORTS AND SLEEVES
   A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPING SUPPORTS, HANGERS AND METHODS FOR ATTACHMENT TO WALLS AND PARTITIONS.
   B. ALL DRAIN, WASTE, HOT AND COLD WATER AND NATURAL GAS PIPING EXPOSED, ABOVE GRADE AND IN FURRED AREAS, SHALL BE SUPPORTED IN PLACE WITH SECURELY FASTENED SOLID PIPE HANGERS NOT OVER 8'-0" APART, AND AT EACH CHANGE IN DIRECTION (5'-0" ON CAST IRON PIPE).
   C. PIPE HANGERS SHALL BE INSTALLED AROUND THE OUTSIDE OF INSULATION WITH VAPOR BARRIERS, AND INSULATION SHALL BE PROTECTED AGAINST CRUSHING BY SHEET METAL JACKET OF PROPER AREA AND WEIGHT.
   D. ALL WATER PIPING RUNNING THROUGH FLOORS OR WALLS SHALL BE ISOLATED FROM THE PENETRATION WITH A SLEEVE. MAINTAIN THE FIRE RATING OF ALL WALL AND FLOOR PENETRATIONS BY USE OF APPROVED FIRE STOP MATERIALS.
   E. SLEEVES THROUGH WALLS SHALL BE CUT SO AS TO BE FLUSH WITH THE FINISHED SURFACE OF THE WALL, IN EACH CASE, AND SHALL BE MADE WATERTIGHT.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SPACES AND CONDITIONS PRIOR TO FABRICATION AND INSTALLATION OF EQUIPMENT AND MATERIAL.
4. CONTRACTOR SHALL GUARANTEE ALL WORK FREE FROM DEFECTS OF WORKMANSHIP AND/OR MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.
5. DIELECTRIC UNIONS SHALL BE PROVIDED WHEREVER DISSIMILAR METALS ARE JOINED.

KEYED NOTES

1. EXTEND NEW 4" SANITARY LINE TO CONNECTION WITH SANITARY BY CIVIL. SEE CIVIL FOR INVERT ELEVATION, YARD CLEANOUT, AND CONTINUATION BEYOND 5'-0" FROM THE EXTERIOR FACE OF THE BUILDING.
2. EXTEND NEW 4" SANITARY STUB 5'-0" INSIDE THE BUILDING SHELL. CONTRACTOR SHALL TEMPORARILY CAP SANITARY STUB-IN FOR FUTURE CONNECTION BY TENANT.
3. EXTEND NEW 2" DOMESTIC WATER FROM NEW WATER METER (SEE CIVIL FOR LOCATION). ROUTE RISER TIGHT TO INSIDE OF EXTERIOR WALL, AND EXTEND PIPING UP TO 14'-0" ABOVE FINISHED FLOOR.
4. PROVIDE BALL SHUT-OFF VALVE IN CEILING SPACE AND TEMPORARILY CAP 2" WATER LINE WITHIN 5'-0" INSIDE THE BUILDING SHELL FOR FUTURE CONNECTION BY TENANT. DO NOT ROUTE WATER PIPING ABOVE ELECTRICAL EQUIPMENT - VERIFY IN FIELD.
5. INSTALL HOSE BIBB (HB-1) AT 24" ABOVE GRADE. PROVIDE 3/4" CW LINE TO HB-1.
6. HB-1: HOSE BIB / WALL HYDRANT: WOODFORD # B65 ANTI-CONTAMINATION, NON-FREEZE WITH COVER PLATE. PROVIDE IN FINISH MOST CLOSELY MATCHED TO EXTERIOR WALL COLOR. ENSURE LANDLORD HAS KEYS TO REMOVE COVER PLATE AT PROJECT COMPLETION.
7. HB-2: HOSE BIB / YARD HYDRANT: WOODFORD #Y2 AUTOMATIC DRAINING, FREEZELESS YARD HYDRANT WITH BACKFLOW PREVENTER FOR FUTURE CONNECTION BY TENANT. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT FRONT CORNER OF DUMPSTER ENCLOSURE, CLEAR OF ANY CONFLICTS WITH TRAFFIC OR GATE OPERATION (SEE CIVIL AND/OR FIELD VERIFY). ENSURE PROPER INSULATION, BURY DEPTH, ETC. FOR LOCAL CONDITIONS IS PROVIDED. POSITION UNIT SO THAT HOSE ATTACHMENT FACES AWAY FROM DUMPSTER ENCLOSURE WITHOUT IMPEDING OPERATION OF FLOW LEVER.
8. MAINTAIN EXISTING HOSE BIBB FOR FUTURE TENANT.
9. EXTEND NEW 4" GREASE WASTE LINE TO CONNECTION WITH GREASE LINE BY CIVIL. SEE CIVIL FOR INVERT ELEVATION, YARD CLEANOUT, AND CONTINUATION BEYOND 5'-0: FROM THE EXTERIOR FACE OF THE BUILDING.
10. EXTEND NEW 4" GREASE WASTE STUB 5'-0" INSIDE THE BUILDING SHELL. CONTRACTOR SHALL TEMPORARILY CAP SANITARY STUB-IN FOR FUTURE CONNECTION BY TENANT.
11. PROVIDE NEW 4" VENT THRU ROOF FOR CONNECTION BY FUTURE TENANT. SEAL ANY EXISTING, UNUSED VENTS THRU ROOF AIR/WEATHER-TIGHT.

NORTH

PLUMBING PLAN

SCALE: 1/8" = 1'-0"

PARTIAL PLAN AT DUMPSTERS

SCALE: NOT TO SCALE

NOTES:

1. SECURE PIPING TO WALL OR FLOOR WITH UNISTRUT AND PIPE CLAMPS 24" O.C., OR AS REQUIRED.
2. COORDINATE & FIELD ORIENT ALL PIPING SO AS NOT TO INTERFERE WITH SPRINKLER PIPING, DUCTWORK AND/OR ASSOCIATED DEVICES.
3. ALL VALVES SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE PURPOSES.

DOMESTIC WATER SERVICE ENTRANCE

SCALE: NOT TO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 08/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.

MIDLAND

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
1	Owner Review	05/12/20
2	Clarifications	07/09/20
4	Owner Revision 3	07/20/20
5	Clarifications	07/31/20
	Clarifications	08/06/20

CASCO DIVERSIFIED CORPERATION
PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY #000613
EXP. 12/31/21

STATE OF MISSOURI
MICHAEL CHARLES GRAPPERHAUS
NUMBER PE-2008019543
PROFESSIONAL ENGINEER
8/20/20

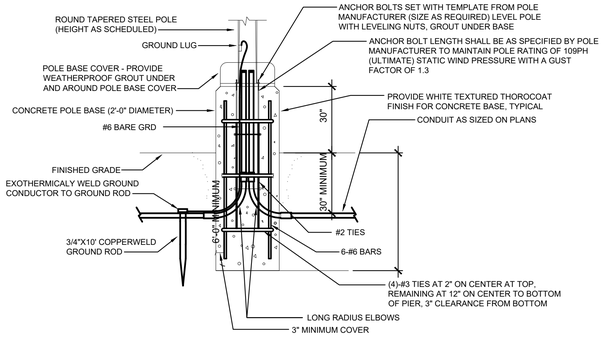
PROFESSIONAL OF RECORD
MICHAEL C. GRAPPERHAUS
License NO.: PE-2008019543
Expiration Date: 12/31/20

Drawn By/Checked By: BAM/MCG
Project Number 320488

Permit Date 06-17-20

PLUMBING PLAN

P101

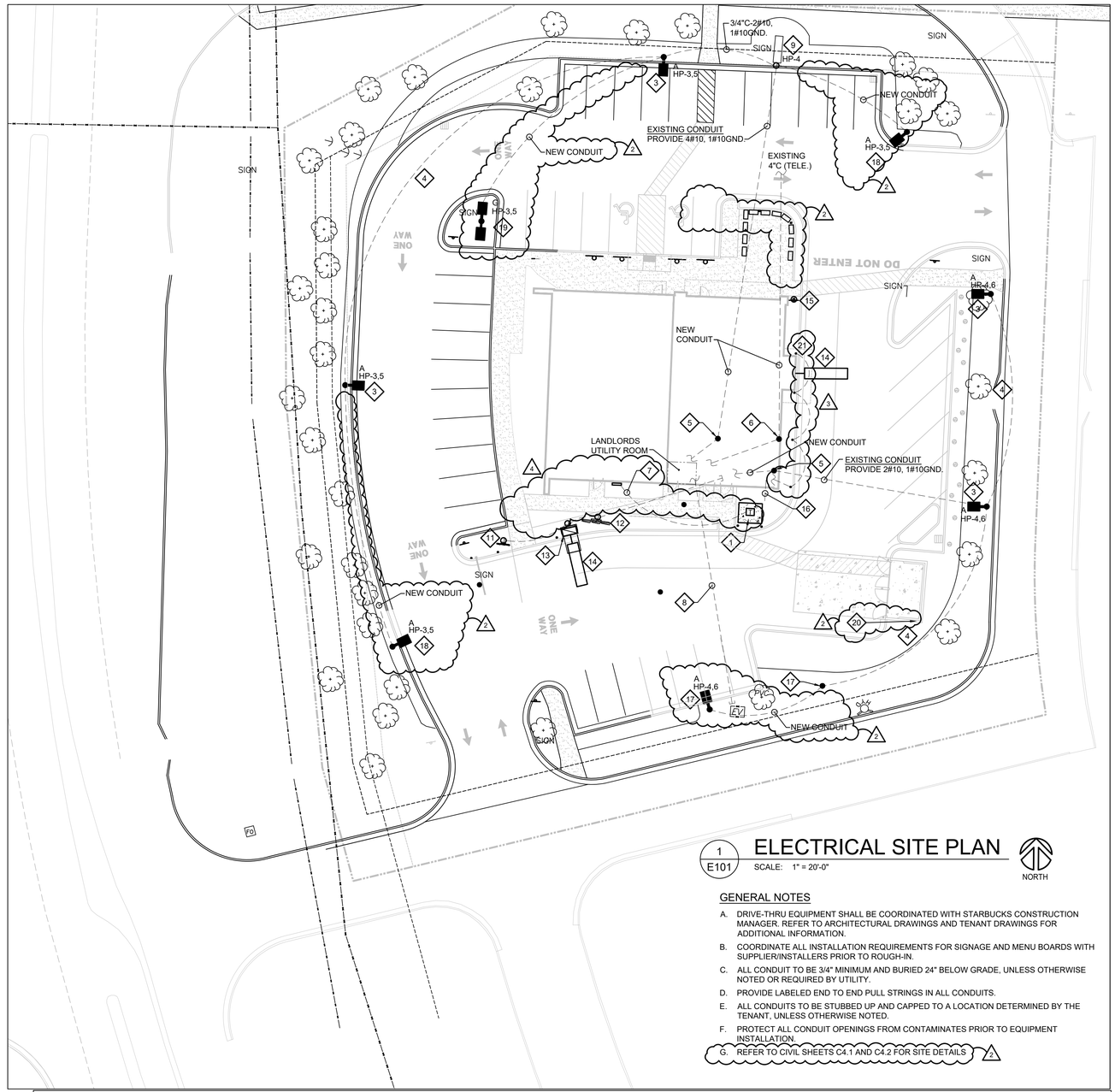


SITE POLE GENERAL NOTES:

1. AT EACH POLE LOCATION, PROVIDE A 3/4 "X10' COPPER CLAD GROUND ROD CONNECTED BY A #6 BARE COPPER CONDUCTOR INTO THE GROUND LUG.
2. FURNISH WITH HAND HOLE AND GROUNDED COVER. POLES SHALL BE RATED FOR 109 MPH (ULTIMATE) (115 MILES PER HOUR) WIND. POLES SHALL BE PLUMBED PERFECTLY VERTICAL.

2 / E101 — LIGHT POLE DETAIL

SCALE: NOT TO SCALE



1 / E101 — ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

NORTH

GENERAL NOTES

A. DRIVE-THRU EQUIPMENT SHALL BE COORDINATED WITH STARBUCKS CONSTRUCTION MANAGER. REFER TO ARCHITECTURAL DRAWINGS AND TENANT DRAWINGS FOR ADDITIONAL INFORMATION.
B. COORDINATE ALL INSTALLATION REQUIREMENTS FOR SIGNAGE AND MENU BOARDS WITH SUPPLIER/INSTALLERS PRIOR TO ROUGH-IN.
C. ALL CONDUIT TO BE 3/4" MINIMUM AND BURIED 24" BELOW GRADE, UNLESS OTHERWISE NOTED OR REQUIRED BY UTILITY.
D. PROVIDE LABELED END TO END PULL STRINGS IN ALL CONDUITS.
E. ALL CONDUITS TO BE STUBBED UP AND CAPPED TO A LOCATION DETERMINED BY THE TENANT, UNLESS OTHERWISE NOTED.
F. PROTECT ALL CONDUIT OPENINGS FROM CONTAMINATES PRIOR TO EQUIPMENT INSTALLATION.
G. REFER TO CIVIL SHEETS C4.1 AND C4.2 FOR SITE DETAILS (2)

KEYED NOTES

1. EXISTING UTILITY TRANSFORMER TO REMAIN. (1)
2. NOT USED.
3. EXISTING SITE LIGHT POLE PROVIDE NEW LIGHT FIXTURE TO REPLACE EXISTING LIGHT FIXTURE. EXISTING POLE AND BASE ARE TO REMAIN. RE-CIRCUIT EXISTING UNDERGROUND FEEDERS AS SHOWN, REPAIRING AND REPLACING THE FEEDERS AS NEEDED.
4. ASSUMED EXISTING BRANCH CIRCUIT TO REMAIN.
5. RETRIEVE EXISTING BRANCH CIRCUIT HOMERUN (HOMERUN LOCATION TO BE FIELD VERIFIED). EXTEND TO AND MERGE EXISTING WITH NEW AND ROUTE TO NEW TIME-CLOCK HOUSE PANEL "HP". NEW BRANCH CIRCUIT WIRES WILL NEED TO BE PROVIDED (#10 AWG. CU. MIN.).
6. RETRIEVE EXISTING 4"C FOR TELE. SERVICE - EXTEND TO AND CONNECT NEW CONDUIT TO EXISTING. THIS IS THE LOCATION OF THE EXISTING TELE DEMARK.
7. ELECTRIC UTILITY EXTEND CONDUIT AND FEEDER TO CT CABINET, METER, AND DISCONNECT. COORDINATE LOCATIONS WITH CIVIL DRAWINGS. REFER TO DETAIL 1/E301 FOR MORE INFORMATION.
8. DATA PROVIDE (1) 2" EMPTY CONDUIT. FOR BROADBAND CABLING (WITH LABELED PULL STRINGS). COORDINATE EXACT ROUGH-IN LOCATIONS WITH CIVIL DRAWINGS. CONDUIT TO BE ROUTED UP EXTERIOR WALL AND TERMINATED IN JOIST SPACE. WIRING TO BE PROVIDED BY TENANTS CONTRACTOR PER TENANT DRAWINGS.
9. EXISTING TO REMAIN MONUMENT SIGN - REROUTE HOMERUN TO PANEL "HP"
10. NOT USED.
11. PRE-MENU BOARD ROUGH-IN ROUTE (2) 1" CONDUIT FROM PRE-MENU TO ~~DRIVE-THRU~~ ORDER POINT. ROUTE 1" CONDUIT FROME PRE-MENU TO DOS (DIGITAL ORDER SCREEN) / DCB (DIGITAL CIRCUIT BOX) LOCATION. PROVIDE LABELED PULL STRINGS.
12. MENU BOARD ROUGH-IN ROUTE (2) 1" CONDUIT FROM MENU TO PANEL "SBA". ROUTE 1" CONDUIT FROME MENU TO DOS (DIGITAL ORDER SCREEN) / DCB (DIGITAL CIRCUIT BOX) LOCATION. PROVIDE LABELED PULL STRINGS.
13. ORDER POINT ROUGH-IN ROUTE (2) 1" CONDUITS FROM DOS / DCB TO DRIVE-THROUGH WINDOW BUMP ALONG EXTERIOR OF BUILDING 18" BELOW GRADE. TERMINATE INSIDE SOUTH WALL OF DT BUMP. ROUTE (1) 1" CONDUIT FROM DOS / DCB TO INSIDE BUILDING CLOSE TO ELECTRICAL PANEL. PROVIDE LABELED PULL STRINGS FOR ALL CONDUITS.
14. LOOP DETECTOR IN CONDUIT TO BE INSTALLED IN 1/4" WIDE BY 2" DEEP SAW CUT SLOT. ROUTE 1" CONDUIT FROM LOOP DETECTOR TO DRIVE THROUGH WINDOW. COORDINATE LOCATION WITH TENANT CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
15. DIRECTIONAL SIGN ROUGH-IN PROVIDE 1-1/2" EMPTY CONDUIT WITH PULL WIRE WITH LABELED PULL STRINGS. EXTEND THE CONDUIT TO 4" ABOVE GRADE. ENTER THE BUILDING WITH (1) 1-1/2" CONDUIT AS CLOSE TO THE ELECTRICAL PANEL AS POSSIBLE. COORDINATE EXACT ROUGH-IN LOCATIONS WITH CIVIL DRAWINGS. WIRING TO BE PROVIDED BY TENANTS CONTRACTOR PER TENANT DRAWINGS.
16. SPARE CONDUIT PROVIDE 1" CONDUIT TO BE RUN THROUGH FOUNDATION WALL OUT REAR OF BUILDING, CAPPED AND TERMINATED ABOVE CEILING. VERIFY LOCATIONS FOR STUB-UP WITH TENANT'S REPRESENTATIVE PRIOR TO ROUGH-IN.
17. RELOCATED LIGHTING POLE WITH NEW LUMINAIRE HEAD EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION AS SHOWN. PROVIDE 2#10, 1#10 GND. MATCH EXISTING CONDUIT SIZE. REFER TO DETAIL 2/E101 FOR MORE INFORMATION.
18. NEW SINGLE HEAD LIGHTING POLE PROVIDE REFER TO DETAIL 2/E101 FOR MORE INFORMATION. PROVIDE LITHONIA #RTS-25-6-5-9B-T20-DM19AS-DDBXD POLE AND 2#10, 1#10 GND FEEDER TO POLE LOCATION. (2)
19. NEW DOUBLE HEAD LIGHTING POLE PROVIDE REFER TO DETAIL 2/E101 FOR MORE INFORMATION. PROVIDE LITHONIA #RTS-25-6-5-9B-T20-DM28AS-DDBXD POLE AND 2#10, 1#10 GND FEEDER TO POLE LOCATION.
20. DUMPSTER LIGHT POLE PROVIDE LED SOLAR SECURITY DOWNLIGHT ON POLE MOUNTED TO TOP OF ENCLOSURE WALL WITH MASONRY FASTENER. COORDINATE LIGHT FIXTURE HEIGHT, POLE SELECTION, AND POLE HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
21. LIGHTED BOLLARD RUN 1" C BETWEEN EACH LIGHTED BOLLARD AND FINALLY ROUTE TO INSIDE BUILDING NEAR ELECTRICAL PANELS. PROVIDE LABELED PULL STRINGS IN EACH CONDUIT. (3)

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.

MIDLAND

Starbucks & Medical Office

155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
	Owner Review 2	06/04/20
1	City Comments	06/30/20
2	Owner Revision 3	07/20/20
3	Revision 5	08/06/20
4	Owner Revision 6	08/20/20
-	-	-
-	-	-
-	-	-

CASCO DIVERSIFIED
CORPERATION PROFESSIONAL
ENGINEERING CERTIFICATE OF
AUTHORITY #000613
EXP. 12/31/21

STATE OF MISSOURI
HARRY J. AUMAN
NUMBER E-16827
PROFESSIONAL ENGINEER
08/20/20

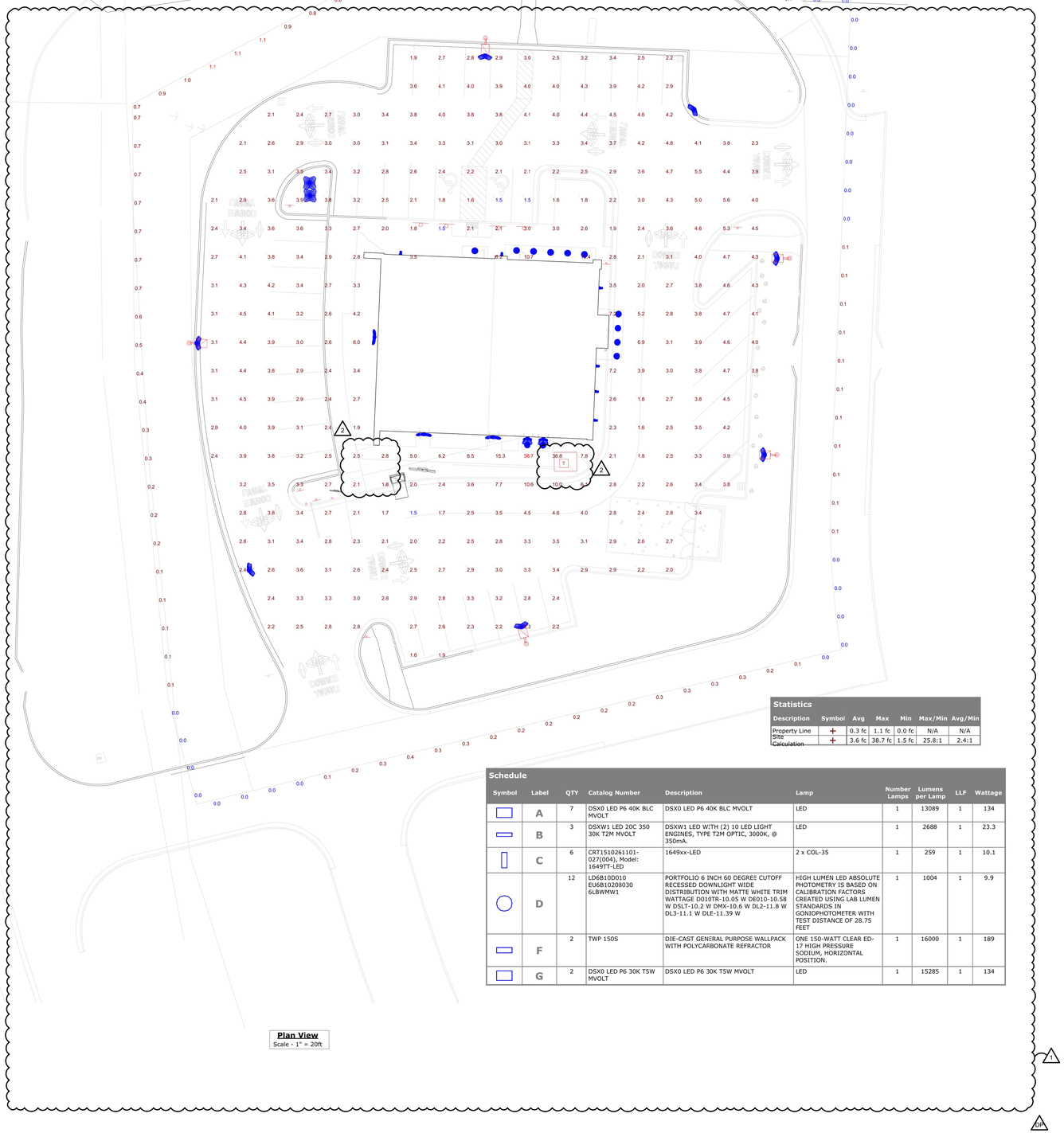
HARRY J. AUMAN
LIC. #E16827
EXP. 12/31/20

Drawn By/Checked By: EAV/DAW
Project Number 320488

Permit Date 06-17-20

ELECTRICAL SITE PLAN

E101



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Property Line	+	0.3 fc	1.1 fc	0.0 fc	N/A	N/A
Site Calculation	+	3.6 fc	38.7 fc	1.5 fc	25.8:1	2.4:1

Schedule

Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage
	A	7	DSX0 LED P6 40K BLC MVOLT	DSX0 LED P6 40K BLC MVOLT	LED	1	13089	1	134
	B	3	DSXW1 LED 20C 350 30K T2M MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 3000K, @ 350mA.	LED	1	2688	1	23.3
	C	6	CRT15102611O1-027(004), Model: 1649TT-LED	1649xx-LED	2 x COL-35	1	259	1	10.1
	D	12	LD6B10D010 EU6B10208030 6LBWMW1	PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT WIDE DISTRIBUTION WITH MATTE WHITE TRIM WATTAGE D010TR-10.05 W DE010-10.58 W DSLT-10.2 W DMX-10.6 W DL2-11.8 W DL3-11.1 W DLE-11.39 W	HIGH LUMEN LED ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET	1	1004	1	9.9
	F	2	TWP 150S	DIE-CAST GENERAL PURPOSE WALLPACK WITH POLYCARBONATE REFRACTOR	ONE 150-WATT CLEAR ED-17 HIGH PRESSURE SODIUM, HORIZONTAL POSITION.	1	16000	1	189
	G	2	DSX0 LED P6 30K TSW MVOLT	DSX0 LED P6 30K TSW MVOLT	LED	1	15285	1	134

Plan View
Scale - 1" = 20ft

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.

MIDLAND

Starbucks & Medical Office

155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
	Owner Review 2	06/04/20
DP	DEVELOPMENT PLAN RESPONSE	06/17/20
1	Owner Revision 3	07/20/20
2	Owner Revision 6	08/20/20
,	,	,
,	,	,
,	,	,
,	,	,
,	,	,

CASCO DIVERSIFIED CORPERATION PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY #000613 EXP. 12/31/21

STATE OF MISSOURI
HARRY J. AUMAN
NUMBER E-16827
PROFESSIONAL ENGINEER
08/20/20

HARRY J. AUMAN
LIC. #E16827
EXP. 12/31/20

Drawn By/Checked By: EAV/DAW
Project Number 320488

Permit Date 06-17-20

1

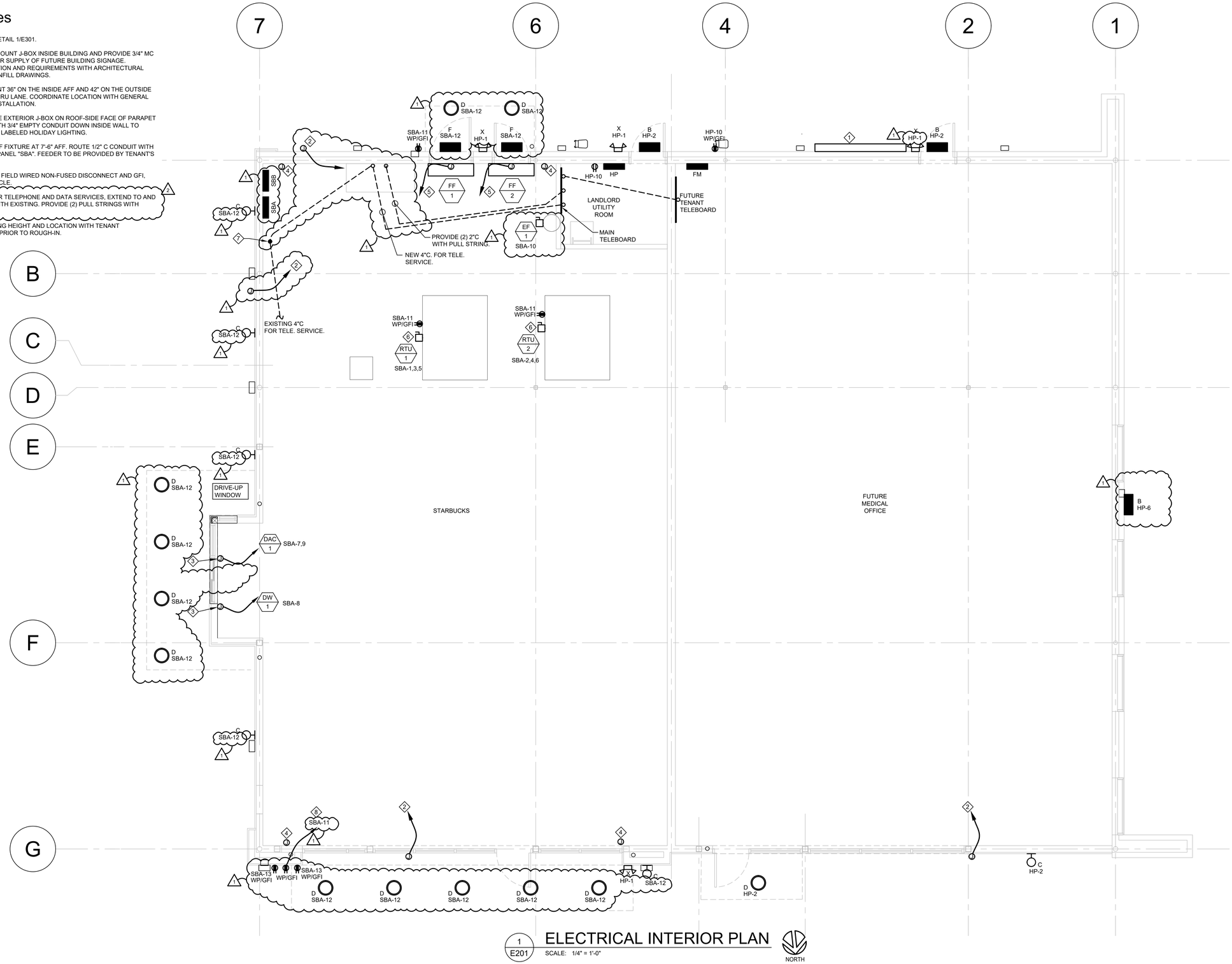
DP

SITE PHOTOMETRICS

E102

Sheet Notes

1. ELECTRICAL UTILITY SEE DETAIL 1/E301.
2. FUTURE BUILDING SIGNS MOUNT J-BOX INSIDE BUILDING AND PROVIDE 3/4" MC THROUGH WALL FOR POWER SUPPLY OF FUTURE BUILDING SIGNAGE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECTURAL ELEVATIONS AND TENANT INFILL DRAWINGS.
3. DRIVE THRU WINDOW MOUNT 36" ON THE INSIDE AFF AND 42" ON THE OUTSIDE MEASURED FROM DRIVE-THRU LANE. COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
4. HOLIDAY LIGHTING PROVIDE EXTERIOR J-BOX ON ROOF-SIDE FACE OF PARAPET ABOVE ROOF FLASHING WITH 3/4" EMPTY CONDUIT DOWN INSIDE WALL TO CEILING WITH PULL STRING LABELED HOLIDAY LIGHTING.
5. FLY FAN MOUNT BOTTOM OF FIXTURE AT 7'-6" AFF. ROUTE 1/2" C CONDUIT WITH LABELED PULL STRING TO PANEL "SBA". FEEDER TO BE PROVIDED BY TENANT'S GENERAL CONTRACTOR.
6. RTU - FACTORY INSTALLED, FIELD WIRED NON-FUSED DISCONNECT AND GFI, WEATHERPROOF RECEPTACLE.
7. RETRIEVE EXISTING 4"C FOR TELEPHONE AND DATA SERVICES, EXTEND TO AND CONNECT NEW CONDUIT WITH EXISTING. PROVIDE (2) PULL STRINGS WITH LABELS.
8. PATIO FAN VERIFY MOUNTING HEIGHT AND LOCATION WITH TENANT CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.



1 E201 ELECTRICAL INTERIOR PLAN

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

NORTH

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.
MIDLAND

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
1	Owner Review 2	06/04/20
2	Owner Revision 3	07/20/20
	Revision 5	08/06/20

CASCO DIVERSIFIED CORPERATION PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY #000613
EXP. 12/31/21

STATE OF MISSOURI
HARRY J. AUMAN
NUMBER E-16827
PROFESSIONAL ENGINEER
08/20/20

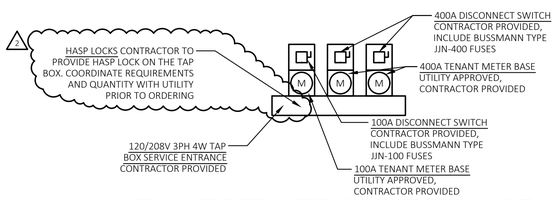
HARRY J. AUMAN
LIC. #E16827
EXP. 12/31/20

Drawn By/Checked By: EAV/DAW
Project Number 320488

Permit Date 06-17-20

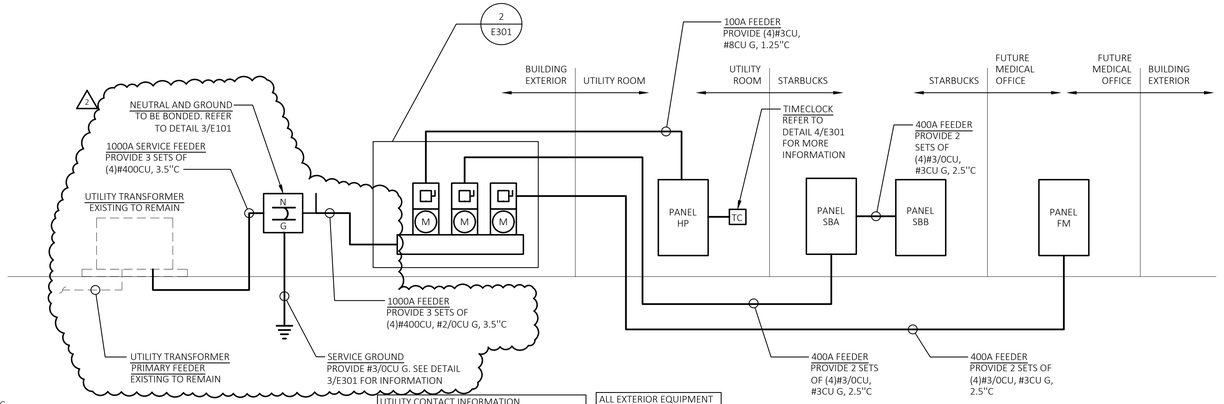
ELECTRICAL INTERIOR PLAN

E201



2 E301 **ENLARGED SERVICE ENTRANCE**

SCALE: NOT TO SCALE



UTILITY CONTACT INFORMATION

ELECTRIC:
KANSAS CITY POWER AND LIGHT COMPANY
888-471-5275

TELEPHONE:
XXX
XXX

ALL EXTERIOR EQUIPMENT IS TO BE NEMA-3R RATED.

COORDINATE ALL UTILITY LOCATIONS WITH RESPECTIVE COMPANY PRIOR TO BID

1 E301 **ONE-LINE**

SCALE: NOT TO SCALE

GENERAL GROUNDING NOTES

A. FULL SIZE GROUND MEANS THAT GROUND CONNECTOR SIZE SHALL BE AS SHOWN ON SERVICE EQUIPMENT ON THE POWER RISER DIAGRAM.

B. AFTER GROUNDING SYSTEM IS INSTALLED, GROUND RESISTANCE SHALL BE MEASURED, TO ASSURE THAT GROUND VALUE OF 15 OHM MAXIMUM RESISTANCE IS ACHIEVED. IF NOT, ADDITIONAL GROUNDING SHALL BE PROVIDED TO MEET THE SPECIFIC VALUE.

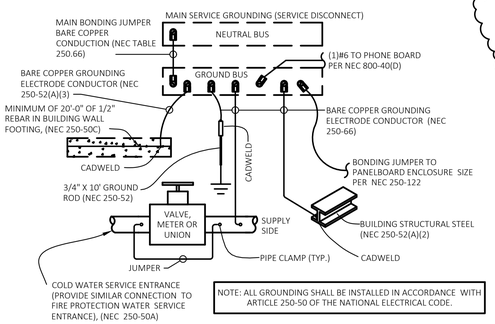
C. ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS

D. WHERE LOCATED OUTSIDE OF BUILDING, TOP OF GROUND ROD SHALL BE 12" (MINIMUM) BELOW GRADE. PROVIDE NON-METALIC INSPECTION WELL WITH REMOVABLE COVER.

E. GROUND CONNECTOR SHALL BE LOCATED WITHIN OR NEAR BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, AND SHALL CONSIST OF AT LEAST 20 FEET OF ONE OR MORE STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER OR OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR.

F. SEE THE RISER DIAGRAM DETAIL 1/E301 FOR THE SIZE OF THE MAIN BONDING JUMPER AND BARE COPPER GROUNDING ELECTRODE CONDUCTORS.

G. NOT ALL GROUNDING OPTIONS MAY APPLY. CONTRACTOR TO VERIFY AVAILABLE GROUNDING METHODS.



NOTE: ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250-50 OF THE NATIONAL ELECTRICAL CODE.

3 E301 **GROUNDING DETAIL**

SCALE: NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	CATALOG NO.	LAMP DATA **	NO.	WATTAGE & LAMPS	REMARKS AND MOUNTING HEIGHT TO BOTTOM OF LIGHT FIXTURE	WATTS PER FIXTURE	FIXTURE QUANTITY
A	LITHONIA	DSX0 LED-P6-40K-BLC-208-RPA--DDB	LED FURNISHED WITH FIXTURE			13" W x 26" L x 7" H HEAD MOUNTED ON A EXISTING 28' TALL ROUND POLE. 70 CRI, 4000K, 13090 LUMENS, WET LOCATION LISTED. COORDINATE POLE DRILL HOLES WITH THE EXISTING POLES	134	7
B	LITHONIA	DSXW1 LED-20C-530-30K-T2M-MVOLT-DDBXD	LED FURNISHED WITH FIXTURE			14" W x 7" H x 10" D WALL PACK, 70CRI, 3000K, 3887 LUMENS, SURFACE MOUNTED 8'-0" AFF TO BOTTOM OF FIXTURE UNLESS OTHERWISE NOTED	36	3
C	HINKLEY LIGHTING, INC.	1649SK-LED	LED FURNISHED WITH FIXTURE			9" W x 24" H x 4" D WALL SCONCE, 70CRI, 2700K, 900 LUMENS, SURFACE MOUNTED 8'-0" AFF TO BOTTOM OF FIXTURE UNLESS OTHERWISE NOTED	11	6
D	PORTFOLIO	LD6B-15-D010-EU6B-1020-80-30-6LB-W-1-MB	LED FURNISHED WITH FIXTURE			7" W x 6" H DOWN LIGHT MOUNTED WITHIN THE CANOPY (9'-0" AFF UNLESS NOTED OTHERWISE	11	12
F	LITHONIA	TWP-150S-TB-LPI	HIGH PRESSURE SODIUM			17" W x 15" H x 8" D WALL PACK, 16,000 LUMENS, SURFACE MOUNTED 8'-0" AFF TO BOTTOM OF FIXTURE UNLESS OTHERWISE NOTED.	150	2
G	LITHONIA	HEAD: DSX0 LED-P6-40K-T5W-208-RPA--DDB POLE: RTS-25-6-5-9B-T20-DM28AS-DDBXD	LED FURNISHED WITH FIXTURE			13" W x 26" L x 7" H HEAD MOUNTED ON A EXISTING 28' TALL ROUND POLE. 70 CRI, 4000K, 166704 LUMENS, WET LOCATION LISTED. COORDINATE POLE DRILL HOLES WITH THE EXISTING POLES	134	HEADS: 2 POLE: 1
X	LITHONIA	AFF-OEL-DDBTXD-UVOLT-LTP-SDRT-WT-CW	LED FURNISHED WITH FIXTURE			7" W x 10" H x 4" D EXTERIOR EMERGENCY LIGHT, SURFACE MOUNT WITH BOTTOM OF FIXTURE AT 8'-0" AFF, LITHIUM ION PHOSPHATE BATTERY, OUTPUTS FOR 90 MINUTES AFTER LOSS OF POWER, LISTED FOR COLD WEATHER AND WET LOCATION	12	4

** LAMPS LED; I - INCANDESCENT; F - FLUORESCENT; CF - COMPACT FLUORESCENT; MH - METAL HALIDE

NOTE:
A. PRIOR TO THE INSTALLATION OF ALL EXIT SIGNS AND EMERGENCY LIGHTS, THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE GC AND FIRE DEPARTMENT INSPECTOR THE FINAL APPROVED LOCATIONS.
B. LIGHT FIXTURE QUANTITIES ARE APPROXIMATE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIXTURE COUNT

EQUIPMENT SCHEDULE

FILE: 320488 LOAD.xlsm

PLAN MARK	EQUIPMENT SERVED	LOAD	VOLT/ PHASE	FED BY	DISC BY	MCA	MOCPD	FEEDER	REMARKS
RTU 1	ROOF TOP UNIT	19.45KVA	208/3	SBA	EC	54.0A	60A	(3)#4,#8G 1"C	1
RTU 2	ROOF TOP UNIT	15.20KVA	208/3	SBA	EC	42.2A	50A	(3)#6,#8G 3/4"C	
FF 1	FLY FAN	0.77KVA	120/1	SBA	EC	6.4A	20A	1/2 C W/ PULL STRINGS	MARS #STD248-1U-OB
DAC 1	DRIVE-THRU AIR CURTAIN	7.07KVA	208/1	SBA	EC	34.0A	40A	(2)#8,#10G 3/4"C	AA300-275 PASS-THRU AIR CURTAIN
DW 1	DRIVE-THRU WINDOW	0.96KVA	120/1	SBA	EC	8.0A	15A	(2)#12,#12G 1/2"C	275 SERIES WINDOW
EF 1	EXHAUST FAN	0.12KVA	120/1	SBA	EC	1.0A	20A	(2)#12,#12G 1/2"C	

1

ELECTRICAL SYMBOLS (NOT ALL SYMBOLS ARE USED)

LIGHTNING

CKT. A LP-1a — FIXT. TYPE SWITCH

WALL SCONCE

CANOPY LIGHT

WALL PACK

POLE LIGHT

EXTERIOR 90 MIN BATTERY BACK-UP EMERGENCY HEADS

CONDUIT

CONDUIT CONCEALED IN WALLS OR CEILING

CONDUIT UNDER GROUND

LP-1,3 — PANEL AND CKTS — HOME RUN

#1/0 CU. — GROUND

MISCELLANEOUS

JUNCTION BOX MOUNT ON WALL AT 18" AFF UNO

TELEPHONE WALL BOX 18" AFF UNO STUB 3/4" CONDUIT UP INTO ACCESSIBLE CEILING AREA WITH INSULATED BUSHING, PROVIDE PULL WIRE

PHONE/DATA WALL BOX 18" AFF UNO STUB 3/4" CONDUIT UP INTO ACCESSIBLE CEILING AREA WITH INSULATED BUSHING, PROVIDE PULL WIRE

DATA WALL BOX 18" AFF UNO STUB 3/4" CONDUIT UP INTO ACCESSIBLE CEILING AREA WITH INSULATED BUSHING, PROVIDE PULL WIRE

CEILING MOUNTED PHONE BOX

MOTOR

GENERAL

RTU 1 — EQUIPMENT CALL OUT

— ELECTRICAL KEYED NOTE DESIGNATION

1 — REVISION SYMBOL

POWER AND CONTROLS

PANELBOARD

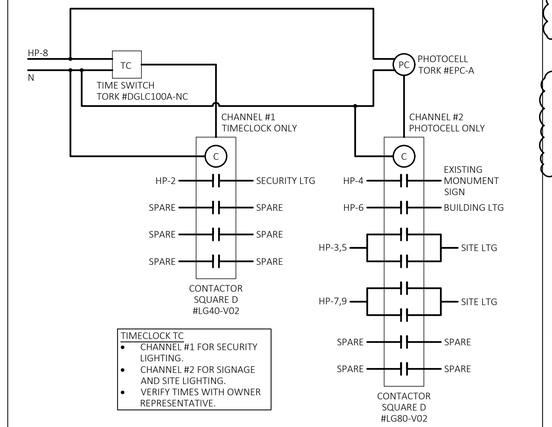
DISCONNECT SWITCH

RECEPTACLES

DUPLEX RECEPTACLE 16" AFF TO BOTTOM, UNO.

GFCI DUPLEX RECEPTACLE 16" AFF TO BOTTOM, UNO

SPECIAL RECEPTACLE



TIMECLOCK TC
- CHANNEL #1 FOR SECURITY LIGHTING.
- CHANNEL #2 FOR SIGNAGE AND SITE LIGHTING.
- VERIFY TIMES WITH OWNER REPRESENTATIVE.

4 E301 **TIME CLOCK AND PHOTOCELL WIRING DIAGRAM**

SCALE: NOT TO SCALE

ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS ARE USED)

AFF	ABOVE FINISHED FLOOR	DIM	DIMMER	IG	ISOLATED GROUND
AL	ALUMINUM	DISC SW	DISCONNECT SWITCH	JB	JUNCTION BOX
AMP	AMPERE	DP	DOUBLE POLE	MCB	MAIN CIRCUIT BREAKER
ATS	AUTO-TRANSFER-SWITCH	DT	DOUBLE THROW	MDP	MAIN DISTRIBUTION PANEL
BFG	BELOW FINSHED GRADE	DPP	DISTRIBUTION POWER PANEL	MLO	MAIN LUG ONLY
BLDG	BUILDING	EC	EMPTY CONDUIT	MTD HT	MOUNTING HEIGHT
CB	CIRCUIT BREAKER	EF	EXHAUST FAN	NF	NON FUSED
CKT	CIRCUIT	EM	EMERGENCY	NIC	NOT IN CONTRACT
CLG	CEILING	EWC	ELECTRIC WATER COOLER	RTU	ROOF TOP UNIT
COND OR "C"	CONDUIT	EXISTG	EXISTING	SW	SWITCH
CONN	CONNECT	FL	FLOOR	UG	UNDER GROUND
CONT	CONTRACTOR	FLUOR	FLUORESCENT	UNO	UNLESS NOTED OTHERWISE
CU	COPPER	GFCI	GROUND FAULT CURRENT INTERUPTER	WP	WEATHER-PROOF
C/T	CURRENT TRANSFORMER	GND OR (G)	GROUND	XFMR	TRANSFORMER

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date 08/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.

MIDLAND

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
	Owner Review	05/12/20
1	Owner Revision 2	06/04/20
2	Owner Revision 3	07/20/20
	Owner Revision 6	08/20/20

CASCO DIVERSIFIED CORPERATION PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY #000613 EXP. 12/31/21

STATE OF MISSOURI — HARRY J. AUMAN — NUMBER E-16827 — PROFESSIONAL ENGINEER — 08/20/20

HARRY J. AUMAN
LIC. #E16827
EXP. 12/31/20

Drawn By/Checked By: EAV/DAW
Project Number 320488

Permit Date 06-17-20

ELECTRICAL ONE-LINE AND DETAILS

E301

UT. XFRM FAULT CALC	320488 LOAD.xlsm	
SERVICE ENTRANCE	CALCULATION	
VOLTAGE (L-L):	208V	I-FLA=[RATED KVA * 1000]/
PHASE (PH):	3	[V-LL*SQRT(PHASE)]
AMPS:	1000A	I-FLA= 1,388A
FULL LOAD KVA:	360KVA	
TRANSFORMER:	500KVA	M=100/%Z= 80.6
IMPEDANCE (%Z):	1.2%Z	I-SC=I-FLA*M= 10 KA

CALCULATION IS BASED ON ESTIMATED TRANSFORMER SIZE WITH %Z FROM BUSSMANN SPD. CONTRACTOR SHALL CONTACT UTILITY AND VERIFY I-SC AVAILABLE AT SECONDARY OF TRANSFORMER. CONTACT ENGINEER FOR RE-CALCULATION IF LARGER THAN CALCULATED.

MOTOR LOAD FAULT CALC	320488 LOAD.xlsm	
STARTING I-SC:	10 KA	CALCULATION
MOTOR LOAD (KVA):	42KVA	I-SC(ML)=I-ML*6= 697A
MOTOR LOAD (A):	116A	I-SC=I-SC+I-SC(ML)= 11 KA

LL METER CENTER FEEDER FAULT CALC	320488 LOAD.xlsm	
STARTING I-SC:	11 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	400	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	3 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	65FT	f= 0.079
FEET PER OHMS (C):	24,297 FT/OHMS	M=1/(1+f)= 0.926
		I-SC=I-SC*M= 10 KA

NOTE: CALCULATION BASED ON BUSSMANN SPD

SBA & SBB FEEDER FAULT CALC	320488 LOAD.xlsm	
STARTING I-SC:	10 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	3/0	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	2 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	60FT	f= 0.178
FEET PER OHMS (C):	13,923 FT/OHMS	M=1/(1+f)= 0.849
		I-SC=I-SC*M= 8 KA

NOTE: CALCULATION BASED ON BUSSMANN SPD

FM FEEDER FAULT CALC	320488 LOAD.xlsm	
STARTING I-SC:	10 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	3/0	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	2 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	30FT	f= 0.089
FEET PER OHMS (C):	13,923 FT/OHMS	M=1/(1+f)= 0.918
		I-SC=I-SC*M= 9 KA

NOTE: CALCULATION BASED ON BUSSMANN SPD

HP FEEDER FAULT CALC	320488 LOAD.xlsm	
STARTING I-SC:	10 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	3	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	1 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	30FT	f= 0.515
FEET PER OHMS (C):	4,811 FT/OHMS	M=1/(1+f)= 0.660
		I-SC=I-SC*M= 7 KA

NOTE: CALCULATION BASED ON BUSSMANN SPD

MOUNT: SURFACE | 120/208 | 3-PHASE, 4W | PANEL FM | CAPACITY: 400A | INT CAP: 200KA
LOCATION: FUTURE MEDICAL OFFICE | LUGS: MLO | DEMAND LOAD: A | AV. FAULT: 9KA

CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT
1						SPARE	20	1	A	20	1	SPARE						2
3						SPARE	20	1	B	20	1	SPARE						4
5						SPARE	20	1	C	20	1	SPARE						6
7						SPARE	20	1	A	20	1	SPARE						8
9						SPARE	20	1	B	20	1	SPARE						10
11						SPARE	20	1	C	20	1	SPARE						12
13						SPARE	20	1	A	20	1	SPARE						14
15						SPARE	20	1	B	20	1	SPARE						16
17						SPARE	20	1	C	20	1	SPARE						18
19						SPARE	20	1	A	20	1	SPARE						20
21						SPARE	20	1	B	20	1	SPARE						22
23						SPARE	20	1	C	20	1	SPARE						24
25						SPARE	20	1	A	20	1	SPARE						26
27						SPARE	20	1	B	20	1	SPARE						28
29						SPARE	20	1	C	20	1	SPARE						30
31						SPARE	20	1	A	20	1	SPARE						32
33						SPARE	20	1	B	20	1	SPARE						34
35						SPARE	20	1	C	20	1	SPARE						36
37						SPARE	20	1	A	20	1	SPARE						38
39						SPARE	20	1	B	20	1	SPARE						40
41						SPARE	20	1	C	20	1	SPARE						42
43						SPARE	20	1	A	20	1	SPARE						44
45						SPARE	20	1	B	20	1	SPARE						46
47						SPARE	20	1	C	20	1	SPARE						48
49						SPARE	20	1	A	20	1	SPARE						50
51						SPARE	20	1	B	20	1	SPARE						52
53						SPARE	20	1	C	20	1	SPARE						54
55						SPARE	20	1	A	20	1	SPARE						56
57						SPARE	20	1	B	20	1	SPARE						58
59						SPARE	20	1	C	20	1	SPARE						60
61						SPARE	20	1	A	20	1	SPARE						62
63						SPARE	20	1	B	20	1	SPARE						64
65						SPARE	20	1	C	20	1	SPARE						66
67						SPARE	20	1	A	20	1	SPARE						68
69						SPARE	20	1	B	20	1	SPARE						70
71						SPARE	20	1	C	20	1	SPARE						72
73						SPARE	20	1	A	20	1	SPARE						74
75						SPARE	20	1	B	20	1	SPARE						76
77						SPARE	20	1	C	20	1	SPARE						78
79						SPARE	20	1	A	20	1	SPARE						80
81						SPARE	20	1	B	20	1	SPARE						82
83						SPARE	20	1	C	20	1	SPARE						84

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	0.0 KVA	0.0 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	0.0 KVA	0.0 KVA	10KVA + 50% REMAINDER NEC 220.44	0.0 KVA	0.0KVA
A	0.0 KVA	#####	HVAC	0.0 KVA	0.0 KVA	LOAD X 80% (USED MCA IN CALCULATION)	0.0A	0.0A
B	0.0 KVA	#####	MISC	0.0 KVA	0.0 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
C	0.0 KVA	#####	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	320488 LOAD.xlsm	

NOTES:
A. AIC RATING: STANDARD 10,000 AIC CIRCUIT BREAKERS. SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN-400 FUSES.

MOUNT: SURFACE | 120/208 | 3-PHASE, 4W | PANEL HP | CAPACITY: 100A | INT CAP: 200KA
LOCATION: LANDLORD UTILITY ROOM | LUGS: MLO | DEMAND LOAD: 12A | AV. FAULT: 7KA

CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	
1	0.1					EGRESS EMERG. LTG	20	1	A	20	1	SECURITY LTG	0.1					2	TC
3	0.4					SITE LIGHTING	20	2	B	20	1	EXIST. MONUMENT SIGN	1.2					4	TC
5	0.4								C	20	1	BUILDING LTG	0.3					6	TC
7	0.2					SITE LIGHTING	20	2	A	20	1	TIMECLOCK				0.2		8	
9	0.2								B	20	1	HOUSE RECEPTACLES		0.4				10	
11						SPARE	20	1	C	20	1	SPARE						12	
13						SPARE	20	1	A	20	1	SPARE						14	
15						SPARE	20	1	B	20	1	SPARE						16	
17						SPARE	20	1	C	20	1	SPARE						18	
19						SPARE	20	1	A	20	1	SPARE						20	
21						SPARE	20	1	B	20	1	SPARE						22	
23						SPARE	20	1	C	20	1	SPARE						24	
25						SPARE	20	1	A	20	1	SPARE						26	
27						SPARE	20	1	B	20	1	SPARE						28	
29						SPARE	20	1	C	20	1	SPARE						30	
31						SPARE	20	1	A	20	1	SPARE						32	
33						SPARE	20	1	B	20	1	SPARE						34	
35						SPARE	20	1	C	20	1	SPARE						36	
37						SPARE	20	1	A	20	1	SPARE						38	
39						SPARE	20	1	B	20	1	SPARE						40	
41						SPARE	20	1	C	20	1	SPARE						42	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	2.9 KVA	3.6 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	0.4 KVA	0.4 KVA	10KVA + 50% REMAINDER NEC 220.44	3.4 KVA	4.2KVA
A	0.7 KVA	16%	HVAC	0.0 KVA	0.0 KVA	LOAD X 80% (USED MCA IN CALCULATION)	9.6A	11.6A
B	2.6 KVA	63%	MISC	0.2 KVA	0.2 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
C	0.9 KVA	21%	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	320488 LOAD.xlsm	

NOTES:
A. AIC RATING: STANDARD 10,000 AIC CIRCUIT BREAKERS. SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN-100 FUSES.
B. "TC" INDICATES CIRCUIT IS CONTROLLED BY TIMECLOCK/PHOTOCELL. REFER TO DETAIL 4/E301 FOR MORE INFORMATION

MOUNT: SURFACE | 120/208 | 3-PHASE, 4W | PANEL SBA | CAPACITY: 400A | INT CAP: 200KA
LOCATION: STARBUCKS | LUGS: MLO | DEMAND LOAD: 101A | AV. FAULT: 8KA

CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	
1			6.5						A						5.1			2	
3			6.5			RTU 1	60	3	B	50	3	RTU 2			5.1			4	
5			6.5						C						5.1			6	
7			3.5			DAC 1	40	2	B	15	1	DW 1				1.0		8	
9			3.5						C	20	1	EF 1			0.1			10	
11		0.4				RTU RECEPTACLES	20	1	A	20	1	EXTERIOR LIGHTING	0.5					12	
13		1.1				PATIO POWER	20	1	B	20	1	SPARE						14	
15	GFI					SPARE	20	1	C	20	1	SPARE						16	
17	GFI					SPARE	20	1	A	20	1	SPARE						18	
19	GFI					SPARE	20	1	B	20	1	SPARE						20	
21	GFI					SPARE	20	1	A	20	1	SPARE						22	GFI
23	GFI					SPARE	20	1	B	20	1	SPARE						24	GFI
25	GFI					SPARE	20	1	C	20	1	SPARE						26	GFI
27	GFI					SPARE	20	1	A	20	1	SPARE						28	GFI
29	GFI					SPARE	20	1	B	20	1	SPARE						30	GFI
31	GFI					SPARE	20	1	A	20	1	SPARE						32	GFI
33	GFI					SPARE	20	1	B	20	1	SPARE						34	GFI
35	GFI					SPARE	20	1	C	20	1	SPARE						36	GFI
37	GFI					SPARE	20	1	A	20	1	SPARE						38	GFI
39	GFI					SPARE	20	1	B	20	1	SPARE						40	GFI
41	GFI					SPARE	20	1	C	20	1	SPARE						42	GFI
43	GFI					SPARE	20	1	A	20	1	SPARE						44	GFI
45	GFI					SPARE	20	1	B	20	1	SPARE						46	GFI
47	GFI					SPARE	20	1	C	20	1	SPARE						48	GFI
49	GFI					SPARE	20	1	A	20	1	SPARE						50	GFI
51	GFI					SPARE	20	1	B	20	1	SPARE						52	GFI
53						PROVISION		1	C		1	PROVISION						54	
55						PROVISION		1	A		1	PROVISION						56	
57						PROVISION		1	B		1	PROVISION						58	
59						PROVISION		1	C		1	PROVISION						60	
									A				0.0	0.0	0.0	0.0	0.0	62	
						FEED THROUGH LUGS TO PANEL B	0.0	0.0	B	0.0	0.0		0.0	0.0	0.0	0.0	0.0	64	
							0.0	0.0	C	0.0	0.0		0.0	0.0	0.0	0.0	0.0	66	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	0.5 KVA	0.6 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	1.5 KVA	1.5 KVA	10KVA + 50% REMAINDER NEC 220.44	44.8 KVA	36.5KVA
A	10.2 KVA	28%	HVAC	41.8 KVA	33.5 KVA	LOAD X 80% (USED MCA IN CALCULATION)	124.3A	101.4A
B	14.1 KVA	39%	MISC	1.0 KVA	1.0 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
C	12.2 KVA	33%	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	320488 LOAD.xlsm	

NOTES:
A. AIC RATING: STANDARD 10,000 AIC CIRCUIT BREAKERS. SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN-400 FUSES.
B. PROVIDE SQUARE D NEMA PB1, TYPE 1 WITH LOCKABLE, HINGED DOOR. IN DOOR CONSTRUCTION.
C. PROVIDE BRANCH CIRCUIT BREAKERS PER TENANTS DRAWINGS.
D. "GFI" INDICATES THIS CIRCUIT IS TO BE PROVIDED WITH A GROUND FAULT CURRENT INTERRUPTING CIRCUIT BREAKER

MOUNT: SURFACE | 120/208 | 3-PHASE, 4W | PANEL SBB | CAPACITY: 400A | INT CAP: 200KA
LOCATION: STARBUCKS | LUGS: MLO | DEMAND LOAD: A | AV. FAULT: 8KA

CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	
GFI 1						SPARE	20	1	A	20	1	SPARE						2	GFI
GFI 3						SPARE	20	1	B	20	1	SPARE						4	GFI
GFI 5						SPARE	20	1	C	20	1	SPARE						6	GFI
GFI 7						SPARE	20	1	A	20	1	SPARE						8	GFI
GFI 9						SPARE	20	1	B	20	1	SPARE						10	GFI
GFI 11						SPARE	20	1	C	20	1	SPARE						12	GFI
GFI 13						SPARE	20	1	A	20	1	SPARE						14	GFI
GFI 15						SPARE	20	1	B	20	1	SPARE						16	GFI
GFI 17						SPARE	20	1	C	20	1	SPARE						18	GFI
GFI 19						SPARE	20	1	A	20	1	SPARE						20	GFI
GFI 21						SPARE	20	1	B	20	1	SPARE						22	GFI
GFI 23						SPARE	20	1	C	20	1	SPARE						24	GFI
GFI 25						SPARE	20	1	A	20	1	SPARE						26	GFI
GFI 27						SPARE	20	1	B	20	1	SPARE						28	GFI
GFI 29						SPARE	20	1	C	20	1	SPARE						30	GFI
GFI 31						SPARE	20	1	A	20	1	SPARE						32	GFI
GFI 33						SPARE	20	1	B	20	1	SPARE						34	GFI
GFI 35						SPARE	20	1	C	20	1	SPARE						36	GFI
GFI 37						SPARE	20	1	A	20	1	SPARE						38	GFI
GFI 39						SPARE	20	1	B	20	1	SPARE						40	GFI
						PROVISION		1	C		1	PROVISION						42	
						PROVISION		1	A		1	PROVISION						44	
						PROVISION		1	B		1	PROVISION						46	
						PROVISION		1	C		1	PROVISION						48	
						PROVISION		1	A		1	PROVISION						50	
						PROVISION		1	B		1	PROVISION						52	
						PROVISION		1	C		1	PROVISION						54	
						PROVISION		1	A		1	PROVISION						56	
						PROVISION		1	B		1	PROVISION						58	
						PROVISION		1	C		1	PROVISION						60	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	0.0 KVA	0.0 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	0.0 KVA	0.0 KVA	10KVA + 50% REMAINDER NEC 220.44	0.0 KVA	0.0KVA
A	0.0 KVA	#####	HVAC	0.0 KVA	0.0 KVA	LOAD X 80% (USED MCA IN CALCULATION)	0.0A	0.0A
B	0.0 KVA	#####	MISC	0.0 KVA	0.0 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
C	0.0 KVA	#####	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	320488 LOAD.xlsm	

NOTES:
A. AIC RATING: STANDARD 10,000 AIC CIRCUIT BREAKERS. SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN-400 FUSES.
B. PROVIDE SQUARE D NEMA PB1, TYPE 1 WITH LOCKABLE, HINGED DOOR. IN DOOR CONSTRUCTION.
C. PROVIDE BRANCH CIRCUIT BREAKERS PER TENANTS DRAWINGS.
D. "GFI" INDICATES THIS CIRCUIT IS TO BE PROVIDED WITH A GROUND FAULT CURRENT INTERRUPTING CIRCUIT BREAKER

VOLTAGE DROP CALCULATIONS

PANEL/LOAD	FEEDER AWG	FEEDER SETS	FEEDER CU/AL	FEEDER PH	OHMS/K-FT NEC TABLES	LENGTH	Z	LOAD	V-DROP	V	%V-DROP
LL METER CENTER	#400	3	CU	3	0.056 OHM/K-FT	65 FT	0.0012 OHM	113 A	0.14 V	208 V	0.07%
SBA	3/0	2	CU	1	0.094 OHM/K-FT	60 FT	0.0056 OHM	101 A	0.57 V	208 V	0.27%
FM	3/0	2	CU	1	0.094 OHM/K-FT	30 FT	0.0028 OHM	1 A	0.00 V	208 V	0.00%
HP	#3	1	CU	1	0.245 OHM/K-FT	30 FT	0.0147 OHM	12 A	0.17 V	208 V	0.08%
SBA-2,4,6	#6	1	CU	3	0.450 OHM/K-FT	60 FT	0.0270 OHM	54 A	1.46 V	208 V	0.70%
HP-3,5	#10	1	CU	1	1.210 OHM/K-FT	300 FT	0.7260 OHM	3 A	2.18 V	208 V	1.05%

NOTES:
SBA-2,4,6 (RTU-2) REPRESENTS THE HEAVIEST LOAD AND HP-3,5 (SITE LIGHTING) REPRESENTS THE LONGEST LOAD. TOGETHER THESE ARE THE WORST CASE BRANCH CIRCUITS.
1-PHASE V-DROP CALC IS BASED ON NEC TABLE 8, DC RESISTANCE, UNCOATED WIRES. IF #1/0 OR LARGER, USE TABLE 9 DUE TO SKIN AFFECT.
3-PHASE V-DROP CALC IS BASED ON NEC TABLE 9, EFFECTIVE Z AT 0.85 PF, UNCOATED WIRES, STEEL CONDUIT (WORST CASE).

EQUATIONS:
Z (1-PH) = (TABLE 8 OHMS/K-FT) * (K-FT/1000') * (LENGTH) (*2) / (SETS) - NOTE: IF #1/0 OR LARGER, USE TABLE 9 DUE TO SKIN AFFECT
Z (3-PH) = (TABLE 9 OHMS/K-FT) * (K-FT/1000') * (LENGTH) / (SETS)
V-DROP = Z * LOAD

320488 LOAD.xlsm

120/208 | 3-PHASE, 4W | LOAD | CAPACITY: 1,000A | DEMAND LOAD: 113A

LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP
0.5	0.4	11.6	0.0	0.0				A								
0.0	1.1	15.1	1.0	0.0	PANEL SBA	400	3	B								
0.0	0.0	15.2	0.0	0.0				C								
0.0	0.0	0.0	0.0	0.0				A								
0.0	0.0	0.0	0.0	0.0	PANEL FM	400	3	B								
0.0	0.0	0.0	0.0	0.0				C								
0.4	0.0	0.0	0.2	0.0				A								
1.8	0.4	0.0	0.0	0.0	PANEL HP	100	3	B								
0.7	0.0	0.0	0.0	0.0				C								

LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
LIGHTING	3.4 KVA	4.2 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
RECEPTACLE	1.8 KVA	1.8 KVA	10KVA + 50% REMAINDER NEC 220.44	48.2 KVA	40.7KVA
HVAC	41.8 KVA	33.5 KVA	LOAD X 80% (USED MCA IN CALCULATION)	133.8A	112.9A
MISC.	1.2 KVA	1.2 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	320488 LOAD.xlsm	

NOTES:
REPRESENTATION OF HVAC LOADS WITHIN THIS PERMIT, PLUS BUILDING LOADS RECEIVED FROM STARBUCKS.
BUILDING LOADS FROM STARBUCKS WILL BE PROVIDED UNDER SEPARATE PERMIT PACKAGE.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

CASCO
12 Sunnen Drive, Suite 200, St. Louis, MO 63143 T: 314.

MIDLAND

Starbucks & Medical Office
155 S.W. MO-150 HWY
LEE'S SUMMIT, MO 64802

CONSTR. DOC. & REVISIONS

No.	Description	Date
1	Owner Review	05/12/20
2	Owner Revision 2	06/04/20
3	Owner Revision 3	07/20/20

CASCO DIVERSIFIED
CORPERATION PROFESSIONAL
ENGINEERING CERTIFICATE OF
AUTHORITY #000613
EXP. 12/31/21

STATE OF MISSOURI
HARRY J. AUMAN
NUMBER E-16827
PROFESSIONAL ENGINEER
08/20/20

HARRY J. AUMAN
LIC. #E16827
EXP. 12/31/20

Drawn By/Checked By: EAV/DAW
Project Number 320488

Permit Date 06-17-20

ELECTRICAL PANEL SCHEDULES

E302