SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS

DUNKIN' - CHARLESTOWN, IN

GROUND-UP DUNKIN' DONUTS

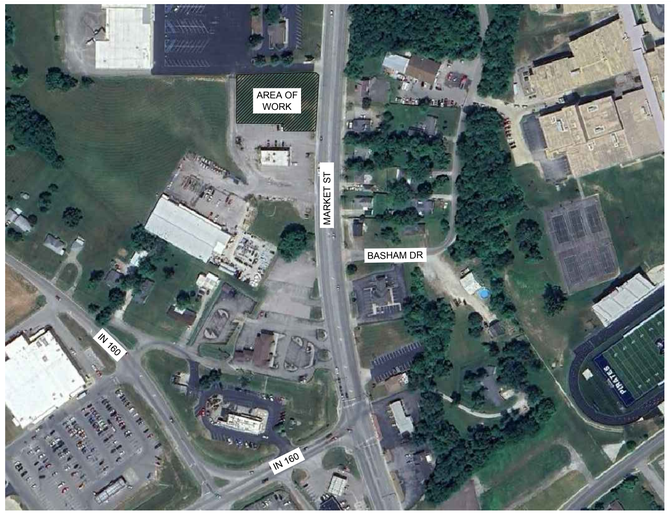
1095 MARKET ST

CHARLESTOWN, IN, 47111

ABBREVIATIONS

A/C	AIR CONDITIONING	ID	INSIDE DIAMETER	T	TREAD
ACOUS	ACOUSTICAL	IN	INCH	T&G	TONGUE & GROOVE
ACT	ACOUSTICAL CEILING TILE	INCL	INCLUDE (ED) (ING)	TELE	TELEPHONE
AFF	ABOVE FINISH FLOOR	INFO	INFORMATION	TEM	TEMPERED
AFG	ABOVE FINISH GRADE	INSUL	INSULATION	TEMP	TEMPORARY
AHU	AIR HANDLING UNIT	INT	INTERIOR	TERR	TERRAZZO
AL	ALUMINUM			THK	THICK
ALT	ALTERNATE	JAN	JANITOR	THRU	THROUGH
AMT	AMOUNT	JB	JUNCTION BOX	TO	TOP OF
AP	ACCESS PANEL	JST	JOIST	TPH	TOILET PAPER HOLDER
APPROX	APPROXIMATE	JT	JOINT	TSS	TOP STRUCTURAL SLAB
ARCH	ARCHITECTURAL			TSTL	TOP OF STEEL
A/V	AUDIO VISUAL	L	LENGTH	TU	TILT-UP
		LAB	LABORATORY	TV	TELEVISION
BD	BOARD	LAM	LAMINATE	TW	TOP OF WALL
BLDG	BUILDING	LAV	LAVATORY	TYP	TYPICAL
BLK	BLOCK	LB	POUND		
BM	BEAM OR BENCHMARK	LF	LINEAR FEET	UH	UNIT HEATER
BMD	BOTTOM OF METAL DECK	LH	LEFT HAND	UNFIN	UNFINISHED
BO	BOTTOM OF	LKR	LOCKER	UL	UNDERWRITER'S LABORATORY
BOT	BOTTOM	LP	LOW POINT	UON	UNLESS OTHERWISE NOTED
BRG	BEARING				
BSMT	BASEMENT	M	METER	VB	VAPOR BARRIER
		MA	MARBLE	VENT	VENTILATION
CAB(S)	CABINET(S)	MAS	MASONRY	VERT	VERTICAL
CB	CORNER BEAD	MATL	MATERIAL	VEST	VESTIBULE
C/C	CENTER TO CENTER	MAX	MAXIMUM	VIF	VERIFY IN FIELD
CG	CORNER GUARD	MB	MARKER BOARD OR MOP BASIN	VWC	VINYL WALL COVERING
CI	CAST IRON	MECH	MECHANICAL		
CJ	CONTROL JOINT	MFR	MANUFACTURER	W	WEST
CLG	CEILING	MH	MANHOLE	W/	WITH
CLO	CLOSET	MIN	MINIMUM	W/O	WITH OUT
CLR	CLEAR	MISC	MISCELLANEOUS	WC	WATER CLOSET
CM	CENTIMETER	MM	MILLIMETER	WD	WOOD
CMP	COMPOSITE METAL PANEL	MO	MASONRY OPENING	WG	WALL GUARD
CMU	CONCRETE MASONRY UNIT	MTD	MOUNTED	WP	WATERPROOFING
CO	CLEAN OUT	MTL	METAL	WPT	WORKING POINT
COL	COLUMN			WSCT	WAINSCOT
CONC	CONCRETE	N	NORTH	WT	WEIGHT
CONSTR	CONSTRUCTION	NIC	NOT IN CONTRACT	WWF	WELDED WIRE FABRIC
CONT	CONTINUOUS	NO	NUMBER		
CONTR	CONTRACTOR	NOM	NOMINAL	XMFR	TRANSFORMER
CPT	CARPET	NTS	NOT TO SCALE		
CT	CERAMIC TILE				
CTR	CENTER	OA	OVER ALL		
CTSK	COUNTERSINK	OC	ON CENTER		
		OD	OUTSIDE DIAMETER		
DBL	DOUBLE	OH	OVERHEAD		
DEG	DEGREE	OHD	OVERHEAD DOOR		
DEPT	DEPARTMENT	OPNG	OPENING		
DTL	DETAIL	OPP	OPPOSITE		
DIA	DIAMETER	OPP HD	OPPOSITE HAND		
DIAG	DIAGONAL	ORD	OVERFLOW ROOF DRAIN		
DIM	DIMENSION	OPT	OPTIONAL		
DN	DOWN	ORIG	ORIGINAL		
DR	DOOR	OZ	OUNCE		
DS	DOWNSPOUT				
DWG(S)	DRAWING(S)	PARTN	PARTITION		
		PC	PRECAST		
E	EAST	PERF	PERFORATED		
EA	EACH	PJ	PANEL JOINT		
EIFS	EXTERIOR INSULATION FINISH SYSTEM	PL	PLATE		
EJ	EXPANSION JOINT	PLAS	PLASTER		
EL	ELEVATION	P LAM	PLASTIC LAMINATE		
ELEC	ELECTRICAL	PLG	PLUMBING		
ELEV	ELEVATOR	PLYWD	PLYWOOD		
ENCL	ENCLOSURE	PNL	PANEL		
ENGR	ENGINEER	PR	PAIR		
EQ	EQUAL	PREFAB	PREFABRICATED		
EQUIP	EQUIPMENT	PRELIM	PRELIMINARY		
ESMT	EASEMENT	PROJ	PROJECT		
EWC	ELECTRIC WATER COOLER	PSF	POUNDS PER SQUARE FOOT		
EXH	EXHAUST	PSI	POUNDS PER SQUARE INCH		
EXIST	EXISTING	PT	POINT		
EXP	EXPANSION	PTD	PAINTED OR PAPER TOWEL DISPENSER		
EXT	EXTERIOR				
		QT	QUARRY TILE		
FA	FIRE ALARM	QTR	QUARTER		
FCU	FAN COIL UNIT				
FD	FLOOR DRAIN	R	RISER		
FDN	FOUNDATION	R/A	RETURN AIR		
FE	FIRE EXTINGUISHER	RAD	RADIUS		
FEC	FIRE EXTINGUISHER CABINET	RB	RESILIENT BASE		
FF	FINISH FLOOR	RD	ROOF DRAIN		
FHC	FIRE HOSE CABINET	REF	REFERENCE		
FIN	FINISH	REINF	REINFORCED (ING)		
FL	FLOW LINE	RF	RESILIENT FLOORING		
FLR	FLOOR	REFRG	REFRIGERATOR		
FT	FEET	REQD	REQUIRED		
FTG	FOOTING	RET	RETAINING		
FUT	FUTURE	REV	REVISION		
FWC	FABRIC WALL COVERING	RH	RIGHT HAND		
		RM	ROOM		
GA	GAUGE	RO	ROUGH OPENING		
GALV	GALVANIZED	RTU	ROOF TOP UNIT		
GB	GRAB BAR	RV	ROOF VENT		
GC	GENERAL CONTRACTOR				
GEN	GENERATOR	S	SOUTH		
GFB	GROUND FACE BLOCK	S/A	SUPPLY AIR		
GFRC	GLASS FIBER REINFORCED CONCRETE	SAB	SOUND ATTENUATION BLANKET		
GFRG	GLASS FIBER REINFORCED GYPSUM	SAN	SANITARY		
GL	GLASS	SD	SMOKE DETECTOR		
GND	GROUND	SF	SQUARE FEET		
GWB	GYPSUM WALL BOARD	SHR	SHOWER		
		SHT	SHEET		
H	HIGH	SIM	SIMILAR		
HB	HOSE BIB	SM	SQUARE METER		
HC	HOLLOW CORE	SNR	SANITARY NAPKIN RECEPTACLE		
HDCP	HANDICAP	SPEC(S)	SPECIFICATION(S)		
HD	HEAD	SPKR	SPEAKER		
HDW	HARDWARE	SQ	SQUARE		
HM	HOLLOW METAL	SS	STAINLESS STEEL		
HORIZ	HORIZONTAL	ST	STREET		
HP	HIGH POINT	STD	STANDARD		
HGT	HEIGHT	STL	STEEL		
HTR	HEATER	STOR	STORAGE		
HWH	HOT WATER HEATER	STRL	STRUCTURAL		
HVAC	HEATING VENTILATING AND AIR CONDITIONING	STRUCT	STRUCTURE		
		SUSP	SUSPENDED		
		SYM	SYMMETRICAL		
		SYS	SYSTEM		

SITE CONTEXT



1 **LOCATION MAP**
SCALE: 1" = 300-0"

DRAWING INDEX

SHEET #	SHEET TITLE	SHEET #	SHEET TITLE
G0.0	COVER SHEET	A6.0	BUILDING SECTIONS
G0.1	LIFE SAFETY DATA, LIFE SAFETY PLAN, GENERAL NOTES	A7.0	WALL SECTIONS
		A7.1	WALL SECTIONS
G0.2	ACCESSIBILITY DIAGRAMS & TYPICAL MOUNTING HEIGHTS	A7.2	WALL SECTIONS
		A7.3	ACCENT WALL & MONOLITH DETAILS
		A7.4	CONSTRUCTION DETAILS
T100	CIVIL TITLE SHEET	A7.5	PLAN DETAILS
C100	EXISTING SITE CONDITIONS PLAN	A8.0	INTERIOR ELEVATIONS
C200	SITE LAYOUT PLAN	A8.1	INTERIOR ELEVATIONS
C210	SITE LANDSCAPING PLAN	A9.0	PARTITION TYPES
C300	SITE UTILITY PLAN	A9.1	SCHEDULES & DETAILS
C310	SITE PHOTOMETRIC PLAN		
C400	SITE GRADING PLAN	K1.0	EQUIPMENT PLAN & SCHEDULES
C500	SITE EROSION CONTROL PLAN	K1.1	EQUIPMENT SCHEDULE
C510	EROSION CONTROL DETAILS		
C520	EROSION CONTROL DETAILS	M1.0	MECHANICAL GENERAL NOTES & SYMBOLS
C530	EROSION CONTROL DETAILS, IMPLEMENTATION AND MAINTENANCE GUIDELINES	M2.0	MECHANICAL SPECIFICATIONS
		M3.0	MECHANICAL FLOOR PLAN
		M4.0	MECHANICAL DETAILS
C600	GENERAL SITEWORK DETAILS	M5.0	MECHANICAL SCHEDULES
C610	GENERAL SITEWORK DETAILS	H1.0	HOOD DRAWINGS
C700	GENERAL SITEWORK NOTES	H2.0	HOOD DRAWINGS
SP1.0	SITE PLAN & NOTES		
SP1.1	SITE DETAILS	E1.0	ELECTRICAL GENERAL NOTES & SYMBOLS
SP2.0	TRASH ENCLOSURE PLANS & DETAILS	E2.0	ELECTRICAL SPECIFICATION
		E3.0	ELECTRICAL LIGHTING PLAN
S0.0	GENERAL NOTES	E4.0	ELECTRICAL POWER PLAN
S0.1	STRUCTURAL NOTES	E5.0	ELECTRICAL SCHEDULES & ONE LINE DIAGRAM
S1.0	FOUNDATION PLAN & NOTES		
S1.1	FOUNDATION DETAILS	P1.0	PLUMBING GENERAL NOTES & SYMBOLS
S2.0	FLOOR FRAMING PLAN & DETAILS	P2.0	PLUMBING SPECIFICATION
S3.0	ROOF FRAMING PLAN & DETAILS	P3.0	PLUMBING DW & V PLAN
		P4.0	PLUMBING WATER & GAS PLAN
A1.0	DIMENSIONED FLOOR PLAN, KEYNOTED FLOOR PLAN & NOTES	P5.0	PLUMBING RISER DIAGRAM
		P6.0	PLUMBING DETAILS
A2.0	REFLECTED CEILING PLAN, SCHEDULE & NOTES	P7.0	PLUMBING SCHEDULES
		P8.0	PLUMBING SCHEDULES
A2.1	CEILING DETAILS	P9.0	WATER FILTRATION SYSTEM
A2.2	CEILING GRID DETAILS & NOTES		
A3.0	FINISH FLOOR PLAN, FINISH WALL PLAN & NOTES		
A3.1	FLOOR & WALL FINISH DETAILS		
A4.0	ROOF PLAN		
A5.0	PROPOSED EXTERIOR ELEVATIONS		
A5.1	PROPOSED EXTERIOR ELEVATIONS		

SCOPE OF WORK

THE PROPOSED GROUND UP DEVELOPMENT SHALL INCLUDE BUT NOT LIMITED TO:

ARCHITECTURAL
- CONCRETE FOUNDATION SYSTEM INCLUDING REINFORCED WALLS & CONCRETE PAD. PER FOUNDATION FOOTPRINT AS NOTED.
- ENVELOPE WOOD FRAMED / PANEL WALL CONSTRUCTION, INSTALLED AS NOTED.
- ALL EXTERIOR FINISHES AS SPECIFIED ON THE EXTERIOR FINISH SCHEDULES & EXTERIOR ELEVATIONS.
- FULLY ADHERED TPO ROOF MEMBRANE SYSTEM OVER WOOD DECK & WOOD TRUSSES.
- ALL INTERIOR PARTITIONS TAGGED IN THE FLOOR PLAN TO FOLLOW THE PARTITION TYPES DETAILED ON SHEET A9.0.
- ALL INTERIOR FINISHES TO BE INSTALLED AS SELECTED.

SITE
- REFERENCE THE FULL CIVIL DRAWINGS
- ALL ASSOCIATED UTILITIES TO BE INSTALLED AS NOTED ON THE CIVIL DRAWINGS WITH ALL REQUIRED CLEARANCES AT EACH PIECE OF EQUIPMENT.
- ALL LANDSCAPE FOR THE PROJECT TO FOLLOW THE LANDSCAPE PLAN.
- FOUNDATIONS FOR MENU BOARD, SPEAKER CANOPY, HEIGHT BAR AND DIRECTIONAL SIGNS.

MECHANICAL
- REFERENCE THE FULL MECHANICAL DRAWINGS ON SHEETS M1.0 - M5.0.
- INSTALLATION OF HVAC SYSTEM TO CONNECT TO RTUS
- PATCH ROOF AS REQUIRED.
- PROVIDE AND INSTALL ALL GRILLS AND DIFFUSERS.
- INSTALLATION OF NEW HOOD SYSTEM AND EXHAUST FANS
- PROVIDE TOILET EXHAUST FANS WITH ALL ASSOCIATED DUCTWORK AND ACCESSORIES.
- PROVIDE AIR CURTAIN HEATERS AND ASSOCIATED ACCESSORIES.

ELECTRICAL
- REFERENCE THE FULL ELECTRICAL DRAWINGS ON E1.0 - E5.0.
- INSTALLATION OF NEW ELECTRICAL PANELS
- ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE NEW RESTAURANT SPACE
- INSTALLATION OF INTERIOR LIGHTS
- INSTALLATION OF OUTLETS AND JBOXES
- INSTALLATION OF JBOXES FOR EXTERIOR SIGNS
- POWER FOR ALL EQUIPMENT (INTERIOR AND EXTERIOR)
- PROVIDE EMERGENCY LIGHTING FIXTURES TO MEET THE CODE REQUIREMENTS
- PROVIDE ELECTRICAL POWER AND CONDUIT PROVISION FOR THE PROJECT SITE ELEMENTS LIKE MENU BOARDS, DIRECTIONAL SIGNS, VEHICLE DETECTION LOOPS ETC.

PLUMBING
- REFERENCE THE FULL PLUMBING DRAWINGS P1.0 - P9.0.
- ROUTE PIPING TO NEW FIXTURES AND ESTABLISH NEW GAS CONNECTIONS.
- INSTALLATION OF UNDERGROUND SYSTEMS. PATCH/POUR FLOOR AS REQUIRE
- CONNECTION TO EXISTING SANITARY AND SEWER SYSTEMS.
- INSTALLATION OF PLUMBING FIXTURES
- NEW HW, CW, AND FW LINES
- REUSE EXISTING WATER HEATER AND ALL ACCESSORIES.
- PROVIDE WATER FILTRATION AND ALL ACCESSORIES. (TYPE TBD AFTER WATER TEST HAS BEEN CONDUCTED)
- NEW INTERIOR GREASE INTERCEPTOR

SEPARATE SUBMITTALS

THE PROPOSED GROUND UP DEVELOPMENT SHALL INCLUDE BUT NOT LIMITED TO:

SIGNAGE
- WALL SIGNS
- MONUMENT SIGNS
- DIRECTIONAL SIGNS
- MENU BOARD
- SPEAKER CANOPY
- BRANDED FILM OVER WINDOWS
- VEHICLE HEIGHT LIMITATION BAR

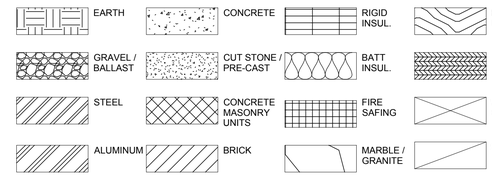
SHOP DRAWINGS
- WOOD TRUSS

DESIGN CODES

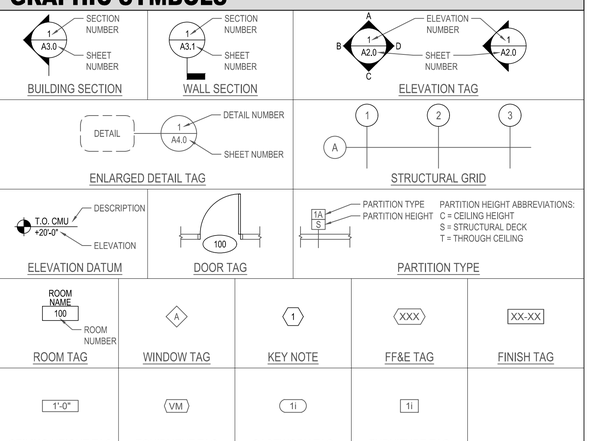
W/ LOCAL AMENDMENTS

- 2014 INDIANA BUILDING CODE (IBC 2012 W/ AMENDMENTS)
- 2010 INDIANA ENERGY CODE (ANSI/ASHRAE 90.1 W/ AMENDMENTS)
- 2009 INDIANA ELECTRICAL CODE (NFPA 70-2008 W/ AMENDMENTS)
- 2012 INDIANA PLUMBING CODE (2006 IPC W/ AMENDMENTS)
- 2014 INDIANA MECHANICAL CODE (2012 IMC W/ AMENDMENTS)
- 2014 INDIANA FIRE CODE (2012 IFC W/ AMENDMENTS)
- 2014 INDIANA FUEL GAS CODE (2012 IFGC W/ AMENDMENTS)

MATERIAL LEGEND



GRAPHIC SYMBOLS



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DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

ARCHITECT
kolbrook design
828 DAVIS ST. SUITE 300
EVANSTON, IL 60201
OFFICE: 847.492.1992 | FAX: 312.453.0699

EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025
⚠ STATE COMMENTS	05/09/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE:

COVER SHEET

SHEET NO.

G0.0

Kolbrook Job No.	1502.236	Consultant Job No.	-

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NOTES TO BIDDERS

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXTERIOR GREASE INTERCEPTOR AND MUST FIELD VERIFY ALL SITE CONDITIONS DURING THE BIDDING PHASE OF THE PROJECT AND ASSIGN ALL APPLICABLE COSTS. THE LOCATION SHALL NOT INTERFERE WITH ANY EXISTING SETBACKS, EASEMENTS, UNDERGROUND UTILITIES, OR OTHER SITE FEATURES.

2. IF REQUIRED, THE GENERAL CONTRACTOR SHALL PROVIDE ENGINEERED AUTOMATIC FIRE SPRINKLER SYSTEM DRAWINGS AND CALCULATIONS, DESIGNED AND SUBMITTED BY AN APPROVED INSTALLER PRIOR TO INSTALLATION.

3. SIGNAGE SHALL BE SUBMITTED UNDER SEPARATE PERMIT. ANY WINDOW GRAPHICS SHALL BE INCLUDED WITH SIGN PERMIT APPLICATION FOR REVIEW AND APPROVAL OF SIGNAGE.

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODE ORDINANCES AND LAWS.

2. THE CONTRACTOR SHALL VISIT THE JOB SITE, VERIFY EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO SUBMITTING A BID AND/OR BEGINNING ANY CONSTRUCTION WORK.

3. ALL WORK, WHEN COMPLETED, SHALL CONFORM TO THE GOVERNING JURISDICTIONAL ACCESSIBILITY STANDARDS.

4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND BETWEEN THE CONTRACT DOCUMENTS FOR RESOLUTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COMPLETE AS-BUILT SET OF CONSTRUCTION DRAWINGS AT THE JOB SITE AND TURNING THE AS-BUILT DRAWINGS OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.

6. REFER TO INDIVIDUAL DRAWINGS WITHIN THIS SET OF CONSTRUCTION DOCUMENTS FOR ADDITIONAL GENERAL NOTES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THOROUGHLY CLEANING THE COMPLETED JOB SITE PRIOR TO TURNING THE PROPERTY OVER TO THE OWNER FOR OCCUPANCY.

8. IN THE EVENT THAT THE CONTRACTOR, OR SUBCONTRACTOR AT ANY TIER, DETERMINES THAT SOME PORTION OF THE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS REQUIRES CLARIFICATION OR INTERPRETATION BY THE ARCHITECT, THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION IN WRITING TO THE ARCHITECT.
   REQUESTS FOR INFORMATION MAY ONLY BE MADE BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL CLEARLY AND CONCISELY SET FORTH THE ISSUE FOR WHICH CLARIFICATION IS SOUGHT AND WHY A RESPONSE IS NEEDED FROM THE ARCHITECT AND/OR CONSULTANTS. IN THE REQUEST FOR INFORMATION, THE CONTRACTOR SHALL SET FORTH AN UNDERSTANDING OF THE REQUIREMENT, ALONG WITH A REASON WHY SUCH AN UNDERSTANDING WAS REACHED. THE ARCHITECT WILL REVIEW THE REQUEST FOR INFORMATION TO DETERMINE IF IT IS A REQUEST FOR INFORMATION WITHIN THE MEANING OF THIS TERM. IF THE ARCHITECT DETERMINES THAT IT IS NOT A REQUEST FOR INFORMATION, IT WILL BE RETURNED TO THE CONTRACTOR, UNREVIEWED AS TO CONTENT, FOR RESUBMITTAL IN THE PROPER FORM AND THE PROPER MANNER.
   RESPONSES TO REQUESTS FOR INFORMATION SHALL BE ISSUED UPON RECEIPT, BUT NO LATER THAN FIVE WORKING DAYS OF RECEIPT OF THE REQUEST, UNLESS THE ARCHITECT DETERMINES THAT A LONGER PERIOD OF TIME IS NEEDED IN ORDER TO PROVIDE AN ADEQUATE RESPONSE. IF A LONGER PERIOD OF TIME IS DETERMINED NECESSARY BY THE ARCHITECT, THE ARCHITECT WILL, WITHIN FIVE WORKING DAYS OF THE RECEIPT OF THE REQUEST FOR INFORMATION, NOTIFY THE CONTRACTOR OF THE ANTICIPATED RESPONSE TIME.
   IF THE CONTRACTOR SUBMITS A REQUEST FOR INFORMATION WITH FIVE WORKING DAYS OR LESS FLOAT ON THE CURRENT PROJECT SCHEDULE, THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY TIME EXTENSION DUE TO THE TIME IT TAKES THE ARCHITECT TO RESPOND TO THE REQUEST FOR INFORMATION, PROVIDED A RESPONSE IS GIVEN WITHIN FIVE WORKING DAYS AS SET FORTH ABOVE.
   RESPONSES FROM THE ARCHITECT WILL NOT CHANGE ANY REQUIREMENTS OF THE CONTRACTOR DOCUMENTS. IN THE EVENT THAT THE CONTRACTOR BELIEVES A RESPONSE TO A REQUEST FOR INFORMATION WILL CAUSE A CHANGE TO REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY GIVE WRITTEN NOTICE TO THE ARCHITECT AND THE OWNER STATING THAT THE CONTRACTOR CONSIDERS THE RESPONSE TO BE A CHANGE ORDER. FAILURE TO GIVE SUCH WRITTEN NOTICE IMMEDIATELY SHALL WAIVE THE CONTRACTOR'S RIGHT TO SEEK ADDITIONAL TIME OR COST.

9. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.

10. AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWN STREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL AS PIPING. (PER ORDINANCE 170,158) (INCLUDES COMMERCIAL ADDITIONS AND IT WORK OVER $10,000.) SEPARATE PLUMBING PERMIT IS REQUESTED.

11. A COPY OF THE VALID EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

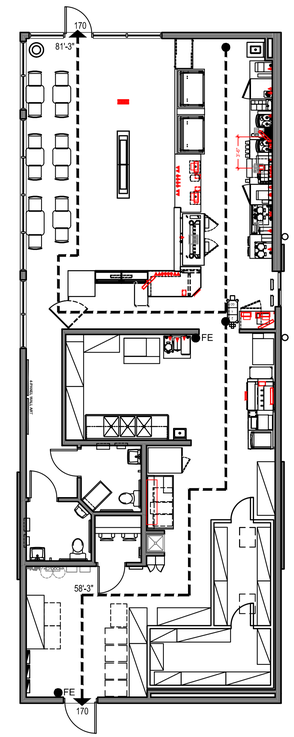
12. OBTAIN SEPARATE PERMIT FOR RETAINING WALLS OR BLOCK FENCE WALLS, GRADING WORK, ELECTRICAL, PLUMBING, AND SIGNAGE.

PROJECT COORD. NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INSPECTIONS AND APPROVALS REQUIRED DURING THE COURSE OF THE WORK.
2. ALL CONTRACTORS FOR THIS WORK ARE REQUIRED TO HAVE INSURANCE OF THE TYPES AND LIMITS SPECIFIED BY THE LANDLORD AND BRAND PARTNER.
3. IF REQUIRED BY LEASE AGREEMENT: THE GENERAL CONTRACTOR SHALL PROVIDE SCHEDULING AND/OR COORDINATION WITH THE LANDLORD'S FIELD REPRESENTATIVE FOR THE FOLLOWING INSTALLATIONS OR PROCEDURES:
   A. INSTALLATIONS OF CONDUIT AND PIPING IN OR BELOW THE FLOOR SLAB.
   B. CONNECTIONS TO DOMESTIC WATER, SANITARY AND GREASE WASTE, SANITARY VENT, AND SMOKE/FIRE ALARM'S.
   C. INSTALLATION OF PRIMARY DUCTWORK, VAV BOX AND CONTROLS.
   D. PROGRAMMING OF THE VAV BOX CONTROL AND SENSORS.
   E. ANY WORK REQUIRED AT THE LANDLORD'S SWITCHGEAR.
   F. HARDWARE AND SOFTWARE MODIFICATIONS TO COMPLETE THE INTERFACE WITH LANDLORD'S BASE BUILDING LIFE SAFETY SYSTEM.
   G. UPON SUBSTANTIAL COMPLETION OF BRAND PARTNER'S WORK IN THE PREMISES, BRAND PARTNER AND HIS CONTRACTOR MUST SCHEDULE WITH THE LANDLORD'S FIELD REPRESENTATIVE TO CONDUCT A FINAL INSPECTION AND PREPARE A PUNCHLIST WHICH ENUMERATES ANY AREAS OF CONSTRUCTIONS, FIXTURING, LIGHTING OR LAMPING, MERCHANDISING, ETC., THAT ARE NOT IN ACCORDANCE WITH THE LANDLORD-APPROVED PLANS OR LEASE. THE STOREFRONT BARRICADE MAY NOT BE REMOVED UNTIL THIS INSPECTION AND ANY CORRECTIONS HAVE BEEN COMPLETED.
   H. LANDLORD'S CONDITIONS IN THE SHOPPING CENTER TENANT DESIGN GUIDE HANDBOOK SHALL BE PART OF ANY CONTRACT AND/OR AGREEMENT ENTERED INTO BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ABOVE NOTED LANDLORD CONTACT PRIOR TO ANY CONSTRUCTION.
   I. PROVIDE PROPERTY MANAGER REQUIRED PROOF OF BUILDER RISK INSURANCE AND DAMAGE DEPOSIT PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION PROCEDURES.
4. CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS HE MAY DISCOVER PRIOR TO COMMENCING WORK.
5. DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS - DO NOT SCALE.
6. ALL DIMENSIONS ARE FROM FACE OF SHEATHING UNLESS NOTED OTHERWISE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISING AND DIRECTING THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE BRAND PARTNER RESERVES THE RIGHT TO ALLOW ASSIGNED VENDORS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL SUBCONTRACTORS, INCLUDING THE VENDORS ASSIGNED BY THE BRAND PARTNER, WITH THE BRAND PARTNER. UPON REQUEST THE CONTRACTOR SHALL PROVIDE NECESSARY FIELD DIMENSIONS AND INFORMATION TO ALL THE BRAND PARTNER ASSIGNED VENDORS AND/OR FABRICATORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION, SCHEDULING, AND SUPERVISION OF ALL BRAND PARTNER SUPPLIED AND INSTALLED ITEMS.
8. GENERAL CONTRACTOR TO COORDINATE LOCATION OF TRASH DUMPSTER WITH PROPERTY MANAGER.
9. SAW CUTS: WHENEVER POSSIBLE ALL SAW CUTS SHALL BE LOCATED INSIDE THE PROPOSED COOKING AND SERVICE AREAS SCHEDULED FOR FLOOR TILE AND SHALL NOT OCCUR IN PROPOSED SEATING AREAS OR PASSAGEWAYS.
10. PARTIAL PLANS: THE CONSTRUCTION DOCUMENTS AS DEFINED BY THE DRAWING INDEX ARE ALL NECESSARY TO DEFINE THE TOTAL PROJECT. PARTIAL PLANS SHOULD NOT BE ISSUED BY THE BRAND PARTNER OR THE GENERAL CONTRACTOR FOR BIDDING OR CONSTRUCTION.
11. THE CONTRACTOR SHALL PROVIDE WOOD BLOCKING AS REQUIRED FOR MOUNTING TABLES, SHELVING, CABINETS, AND ANY OTHER EQUIPMENT NOT SPECIFICALLY MENTIONED. ALL WOOD SHALL BE NON-COMBUSABLE AS PER LOCAL AUTHORITY HAVING JURISDICTION.
12. EXISTING UTILITY SERVICES SHOWN TO REMAIN, REROUTE AS REQUIRED TO CONCEAL THE SERVICE IN WALLS AND ABOVE CEILING.
13. TEMPORARY ENCLOSURES SHALL BE PROVIDED BY THE CONTRACTOR OVER AND/OR AROUND ANY EXTERIOR OPENINGS AS NECESSARY FOR THE PROPER INSTALLATION OF ANY PORTION OF WORK IN CONJUNCTION WITH THE LANDLORD'S STANDARD GUIDELINES.
14. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED ROOF OPENING FRAMING FOR SCHEDULED HVAC AND EXHAUST UNITS. FOR STRUCTURAL SUPPORT OF EQUIPMENT AND SUPPORT OF ROOF OPENINGS, REFER TO STRUCTURAL DRAWINGS.
15. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED ROOF DOCUMENTATION FOR THE MODIFICATION OF EXISTING ROOF AS APPLICABLE PER THE BRAND PARTNER'S LEASE. THE LANDLORD SHALL BE CONTACTED TO OBTAIN ALL REQUIREMENTS FOR LISTED SUBCONTRACTORS WITH WARRANTY WORK FOR THE SPECIFIED ROOFING SYSTEM.
16. ALL lx WOOD TRIM AS NOTED SHALL BE OF A CLEAR, MODIFY STAIN GRADE PINE.
17. CONTRACTOR SHALL CONTACT THE LANDLORD DURING THE BIDDING PHASE OF THE PROJECT FOR ANY REQUIREMENTS FOR THE FIRE ALARM SYSTEMS. THESE SYSTEMS, IF REQUIRED, SHALL BE INCLUDED IN THE BID & CONSTRUCTION FOR THIS PROJECT.
18. CONTRACT FORM:
   A. THE CONTRACT FORM SHALL BE A "STANDARD" FORM OF AGREEMENT BETWEEN CONTRACTOR AND BRAND PARTNER OF THE CONSTRUCTION BUILDING'S A.I.A. DOCUMENT FORM A-101 CURRENT EDITION.
   B. GENERAL CONDITIONS OF THE CONTRACT: A.I.A. DOCUMENT A-201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, 1997 EDITION, IS HEREBY MADE A REQUIREMENT OF THE CONTRACT DOCUMENTS. A COPY IS ON FILE WITH THE ARCHITECT FOR THE CONTRACTOR TO REVIEW.
20. SUBSTITUTIONS:
   A. NO MATERIAL SUBSTITUTIONS SHALL BE PERMITTED AFTER THE CONTRACTOR HAS BEEN AWARDED JOB, SUBSTITUTIONS SHALL BE EQUAL OR BETTER IN THE OPINION OF THE BRAND PARTNER PRIOR TO AWARD.
   B. SPECIFIED PRODUCTS HAVE BEEN USED IN PREPARING THESE DOCUMENTS TO ESTABLISH MINIMUM QUALITIES WHICH SUBSTITUTIONS MUST MEET TO BE CONSIDERED ACCEPTABLE. THE BURDEN OF PROOF OF EQUALITY RESTS WITH THE CONTRACTOR. ADEQUATE SUPPORTING INFORMATION MUST ACCOMPANY ALL SUBSTITUTION SUBMITTALS, WHICH MUST BE SUBMITTED TO THE PROJECT COORDINATOR FOR APPROVAL.
21. MECHANICAL, ELECTRICAL AND PLUMBING:THE GENERAL CONTRACTOR SHALL FIELD VERIFY THE EXISTING UTILITIES FOR COORDINATION WITH THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID TO REUSE EXISTING AIR HANDLERS AND COMPRESSORS OR ROOF-TOP PACKAGE UNITS. THE TOTAL HAVC LOAD SHALL MATCH THE SPECIFIED TOTAL LOAD ON THE MECHANICAL DRAWINGS. THE CONTRACTOR SHALL CONTACT THE MECHANICAL ENGINEER WITH THE EXISTING LOAD INFORMATION FOR APPROVAL.
22. BRAND STANDARDS: THE BRAND STANDARD DESIGN, INCLUDING BUT NOT LIMITED TO: LIGHTING, SEATING, PAINT SELECTION, KITCHEN EQUIPMENT, FLOORING, WALL FINISHES, COUNTER HEIGHTS, SIGNAGE, AND ALL OTHER ELEMENTS AS NOTED AND INCLUDED IN THESE CONTRACT DOCUMENTS ARE AS PER THE BRAND'S FRANCHISE AGREEMENT. ANY REVISIONS TO THESE DOCUMENTS OR FIELD CHANGES TO THIS DESIGN SHALL ONLY OCCUR UPON WRITTEN APPROVALS OF THE BRAND.
23. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXTERIOR GREASE INTERCEPTOR IN A MANNER THAT DOES NOT INTERFERE WITH ANY EXISTING SETBACKS, EASEMENTS, UNDERGROUND UTILITIES, OR OTHER SITE FEATURES.

DUNKIN DONUTS DATA

TOILET ROOMS:	
NUMBER OF TOILET ROOMS	2
PUBLIC ACCESS TO TOILET ROOMS	Y
ACCESSIBLE TOILET ROOMS	Y
DRIVE-THRU:	
YES/NO	Y
NUMBER OF DRIVE THRU WINDOWS	1
MENU BOARD SIZE (SINGLE, COMBO)	SINGLE
CAR LENGTHS FROM MENU TO WINDOW	5
ESCAPE LANE	Y
STACKING	6
SEATING:	
# OF TABLES	6
# OF SEATS	12
# OF BARRIER FREE SEATING UNITS	1
STAND UP COUNTERS (Y/N)	Y
IMAGE TYPE:	
SINGLE BRAND/ COMBO (DD/BR)	DD NEXT GEN



1 **LIFE SAFETY PLAN**
SCALE: 1/8" = 1'-0"

PROJECT DATA

ZONING DISTRICT:	DOWNTOWN HISTORIC DISTRICT
PARCEL #:	10-18-13-600-151.000-004
BUILDING AREA :	2,187 SQ FT
BUILDING HEIGHT:	19'-6" PARAPET, 22'-0" MONOLITH
NUMBER OF STORIES:	1
DECK HEIGHT:	VARIES
CONSTRUCTION TYPE:	V-B
OCCUPANCY CLASSIFICATION:	ASSEMBLY A-2 RESTAURANT < 50 OCCUPANTS

OCCUPANCY DATA

PREVIOUS: VACANT

PROPOSED: A-2
(MOST RESTRICTIVE ANTICIPATED USE)

USE:	AREA:	OCCUPANT:
STORAGE:	662 SF.	(1 PER 300SF) = 3
SERVICE:	436 SF.	(1 PER 200SF) = 3
OFFICE:	27 SF.	(1 PER 100SF) = 1
DINING ROOM:	620 SF.	(1 PER 15SF) = 42
TOTAL:	1,745 SF.	49 OCCUPANTS

DISTANCE TO EXIST 1 — 81'-5"
DISTANCE TO EXIST 2 — 54'-3"

MOST RESTRICTIVE ANTICIPATED OCCUPANT LOAD:

TABLE: 1004.5	PROVIDED:	PER CODE:	# OF OCCUPANTS
KITCHEN, COMMERCIAL	436 SF	200 GROSS	3

MAX TRAVEL DISTANCE:

IBC 2018, TABLE 1017.2

W/OUT AUTOMATIC SPRINKLER PROTECTION: 200'-0"

FIRE PROTECTION:

AUTOMATIC SPRINKLERS: (IFC 2012, SEC. 903.2.1.2) — REQUIRED: NO PROVIDED: NO EXISTING OR NEW: NO

FIRE ALARM: (IFC 2012, SEC. 907.2.1) — REQUIRED: NO PROVIDED: NO EXISTING OR NEW: NO

FIRE EXTINGUISHERS: (IBC 2012, SEC. 906) — REQUIRED: YES PROVIDED: YES (NEW)

FIRE EXTINGUISHERS SHALL BE WITHIN A 75' TRAVEL DISTANCE OF ALL LOCATIONS AND WITHIN 30' OF COMMERCIAL COOKING EQUIPMENT. ALL WALL MOUNTED FIRE EXTINGUISHERS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL NOT PROTRUDE MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES.

FIRE PREVENTION

1. ALL LIFE-SAFETY SYSTEMS SHALL BE DESIGNED PER APPLICABLE FIRE PREVENTION CODE.
2. FIRE EXTINGUISHER REQUIREMENTS SHALL BE AS DETERMINED BY FIELD INSPECTION AND NFPA 10. THE CONTRACTOR SHALL SUPPLY ALL FIRE EXTINGUISHERS.
3. BUILDING ADDRESS NUMBERS SHALL BE PROVIDED ON THE FRONT AND REAR OF THE BUILDING AND SHALL BE VISIBLE AND LEGIBLE FROM THE PUBLIC RIGHT-OF-WAY, SAID NUMBERS SHALL CONTRAST VISUALLY WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE PROVIDED BY THE CONTRACTOR.
4. POST "NO PARKING - FIRE LANE" SIGNS ALONG VEHICULAR ACCESS ROADS.
5. IF REQUIRED - ENGINEERED AUTOMATIC FIRE SPRINKLER SYSTEM DRAWINGS AND CALCULATIONS SHALL BE DESIGNED AND SUBMITTED BY AN APPROVED INSTALLER PRIOR TO INSTALLATION.
6. THE INSPECTION, HYDROSTATIC TESTING, AND FLUSHING OF THE AUTOMATIC FIRE SPRINKLER SYSTEM AND/OR FIRE HYDRANTS SHALL BE WITNESSED BY THE PROPER FIRE DEPARTMENT REPRESENTATIVE AND NO UNDERGROUND PIPING SHALL BE COVERED OR HIDDEN FROM VIEW UNTIL THE PROPER FIRE DEPARTMENT REPRESENTATIVE HAS BEEN NOTIFIED AND GIVEN NO LESS THAN FORTY-EIGHT HOURS IN WHICH TO INSPECT SUCH INSTALLATIONS.

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DUNKIN'

CIVIL ENGINEER
STRUCTURAL ENGINEER
LANDSCAPE COMPANY
MEP ENGINEER
DEVELOPER
ARCHITECT
kolbrook design
828 DAVIS ST. SUITE 300
EVANSTON, IL 60201
OFFICE 847.492.1992 | FAX: 312.453.0699

LICENSED ARCHITECT — No.11100072 — STATE OF — ILLINOIS
EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

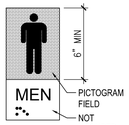
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CHECKED BY:

SHEET TITLE.
LIFE SAFETY DATA, LIFE SAFETY PLAN, GENERAL NOTES

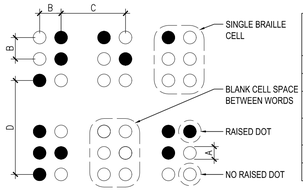
SHEET NO.
G0.1

Kolbrook Job No.	1502.236	Consultant Job No.	-

SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS



17 PICTOGRAM FIELD
SCALE: N.T.S.



BRAILLE DIAGRAM

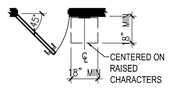
KEY	MEASUREMENT RANGE	MIN	MAX
A	DOT BASE DIAMETER	0.059"	0.063"
B	DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	0.090"	0.100"
C	DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS*	0.241"	0.300"
D	DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW*	0.395"	0.400"
	DOT HEIGHT	0.025"	0.037"
* MEASURED CENTER TO CENTER			

BRAILLE DIMENSIONS

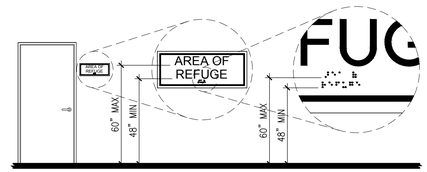
16 BRAILLE DIAGRAM & DIMENSIONS
SCALE: N.T.S.



15 CHARACTER HEIGHT
SCALE: N.T.S.

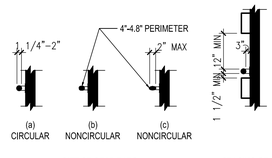


14 LOCATION OF SIGNS AT DOORS
SCALE: 1/4" = 1'-0"



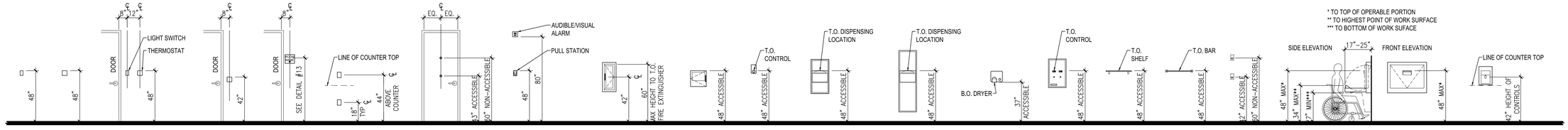
HEIGHT OF RAISED CHARACTERS & BRAILLE ABOVE FLOOR
RAISED CHARACTERS BRAILLE

13 HEIGHT OF RAISED CHARACTERS & BRAILLE ABOVE FLOOR
SCALE: N.T.S.

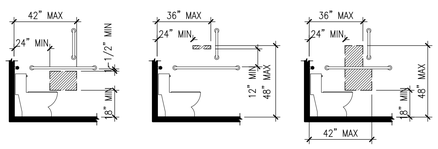


SIZE OF GRAB BARS SPACING OF GRAB BARS

12 SIZE & SPACING OF GRAB BARS
SCALE: N.T.S.

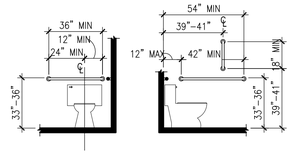


11 TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"



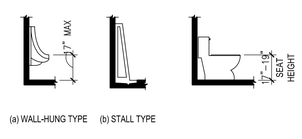
(a) PROTRUDING DISPENSER BELOW GRAB BAR (b) PROTRUDING DISPENSER ABOVE GRAB BAR (c) RECESSED DISPENSER

10 TOILET PAPER DISPENSER OUTLET LOCATIONS
SCALE: 1/4" = 1'-0"



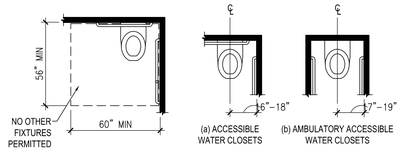
REAR WALL GRAB BAR FOR WATER CLOSET SIDE WALL GRAB BAR FOR WATER CLOSET

9 WATER CLOSET GRAB BAR LOCATIONS
SCALE: 1/4" = 1'-0"



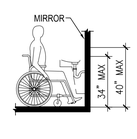
HEIGHT OF URINALS WATER CLOSET SEAT HEIGHT

8 WATER CLOSET SEAT & URINAL HEIGHT
SCALE: 1/4" = 1'-0"

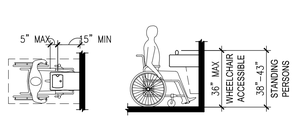


SIZE OF CLEARANCE FOR WATER CLOSET WATER CLOSET LOCATION

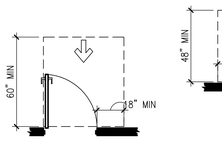
7 WATER CLOSET LOCATION & CLEARANCE
SCALE: 1/4" = 1'-0"



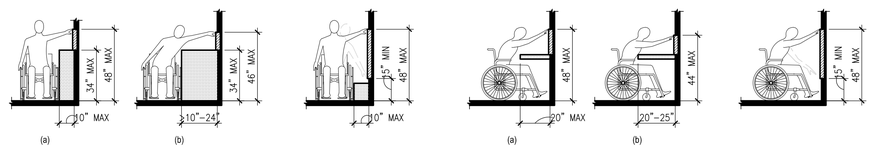
6 HEIGHT OF LAVATORIES SINKS & MIRRORS
SCALE: 1/4" = 1'-0"



5 DRINKING FOUNTAIN SPOUT LOCATION
SCALE: 1/4" = 1'-0"

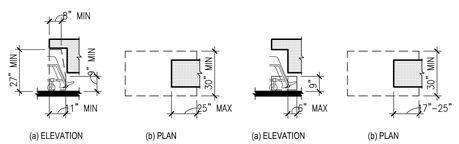


4 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
SCALE: 1/4" = 1'-0"



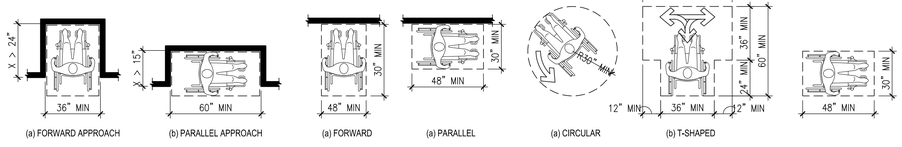
OBSTRUCTED HIGH SIDE REACH UNOBSTRUCTED SIDE REACH OBSTRUCTED HIGH FORWARD REACH UNOBSTRUCTED FORWARD REACH

3 REACH RANGES
SCALE: 1/4" = 1'-0"



KNEE CLEARANCE TOE CLEARANCE

2 KNEE & TOE CLEARANCE
SCALE: 1/4" = 1'-0"



MANEUVERING CLEARANCE IN AN ALCOVE POSITION OF CLEAR FLOOR SPACE SIZE OF TURNING SPACE SIZE OF CLEAR FLOOR SPACE

1 CLEAR FLOOR SPACE
SCALE: 1/4" = 1'-0"

ACCESSIBILITY NOTES

THE PROJECT MEETS FULL COMPLIANCE W/ THE ADOPTED CHARLESTOWN, IN ACCESSIBILITY CODE.

CONTROLS & OPERATING MECHANISMS:
ALL OPERABLE PARTS SHALL BE OPERABLE W/ ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS MAX. ALL ALTERED CONTROLS & OPERATING MECHANISMS SHALL BE PLACED BETWEEN 15 INCHES & 48 INCHES ABOVE THE FLOOR.

FLOORING:
ALL FLOOR SURFACES SHALL BE FIRM, STABLE & SLIP RESISTANT PER CHAPTER 3, SECTION 302.1. THRESHOLDS SHALL NOT EXCEED 1/2" WITH A 1:2 BEVEL.

PLUMBING FACILITIES:
ALL PLUMBING FACILITIES SHALL COMPLY W/ CHAPTER 6.

ALARMS:
ALL NEW OR ALTERED VISUAL ALARMS SHALL COMPLY W/ CHAPTER 7. ALL VISUAL ALARMS SHALL BE SYNCHRONIZED.

DOORS:
- DOORS IN PUBLIC & COMMON AREAS SHALL PROVIDE THE REQUIRED MANEUVERING CLEARANCE PER CHAPTER 4.
- ALL DOORS SHALL HAVE LEVER-OPERATED HARDWARE PER CHAPTER 4.
- ALL DOORS SHALL HAVE A 32" CLEAR DOOR OPENING MEASURED FROM THE FACE OF THE DOOR WHEN IT IS OPENED 90% TO THE DOOR STOP PER CHAPTER 4.
- ALL DOORS LEADING INTO HAZARDOUS ROOMS OR SPACES TO HAVE KNURLED HARDWARE.
- ALL PUBLIC & COMMON AREA INTERIOR DOORS TO HAVE 5 POUND MAX. FORCE TO OPEN PER CHAPTER 4, SECTION 404.2.9.

PROTRUDING OBJECTS:
ALL PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL MEET COMPLIANCE W/ CHAPTER 3. OBJECTS W/ LEADING EDGES MORE THAN 27" & NOT MORE THAN 80" A.F.F. SHALL PROTRUDE 4" MAX. HORIZONTALLY INTO THE CIRCULATION PATH. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE OBJECT PROTRUSION IS BEYOND THE LIMITS ALLOWED, THE LEADING EDGE OF GUARDRAIL OR BARRIER SHALL BE 27" MAXIMUM A.F.F.

SIGNAGE:
WHERE SIGNAGE IS PROVIDED, IT SHALL COMPLY W/ CHAPTER 7 & USED TO IDENTIFY REQUIRED ACCESSIBLE ELEMENTS, PROVIDE DIRECTIONS OR INDICATE SPECIAL ACCESSIBILITY PROVISIONS, SIGNAGE DIMENSIONS, CHARACTERS & TACTILE FEATURES SHALL COMPLY W/ CHAPTER 7. SIGNAGE SHALL BE PROVIDED TACTILE IN BRAILLE & BE LOCATED ON THE DOOR HANDLE SIDE OF DOOR. NEW SIGNAGE WILL BE INSTALLED AT THE APPROPRIATE HEIGHT & DISTANCE TO THE LATCH SIDE OF THE DOOR PER THE ELEVATION DETAIL ON THE DRAWINGS.

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DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

ARCHITECT

kolbrook design
828 DAVIS ST. SUITE 300
EVANSTON, IL 60201
OFFICE: 847.492.1992 | FAX: 312.453.0699



PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

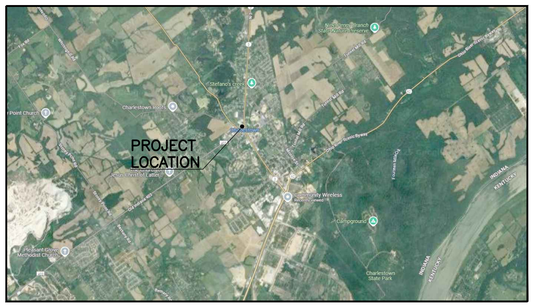
SHEET TITLE:
ACCESSIBILITY DIAGRAMS & TYPICAL MOUNTING HEIGHTS

SHEET NO.
G0.2

Kolbrook Job No.	1502.236	Consultant Job No.	-

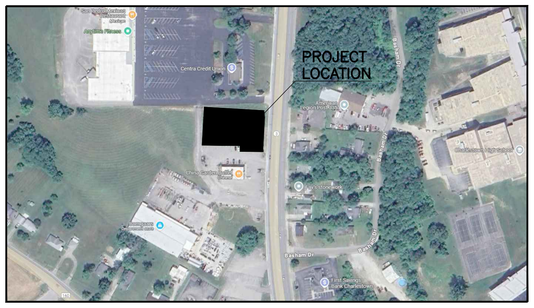
Dunkin'

1095 Market Street (Highway 3)
Charlestown, Indiana 47111



VICINITY MAP

N



LOCATION MAP



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UngB	Urban land-Udarents, fragipan substratum, complex, till plain, 0 to 12 percent slopes	0.6	100.0%
Totals for Area of Interest		**0.6**	**100.0%**

UTILITY COMPANIES

GAS – CENTER POINTE ENERGY
6207 High Jackson Rd.
Charlestown, IN 47111
PH: (800) 227–1376

WATER – INDIANA–AMERICAN WATER
4800 N. 825 W.
BOGGSTOWN, IN 46110
PH: (800) 492–8373

STORM SEWER (MS4) UTILITY
304 Main Cross Street
Charlestown, IN 47111
PH: (812) 256–3422

SANITARY SEWER – PUBLIC UTILITY OFFICE
304 Main Cross St.
Charlestown, IN 47111
PH: (812) 256–2427

ELECTRIC – DUKE ENERGY
2727 Central Ave.
Columbus, IN 47201
PH: (800) 521–2232

CHARLESTOWN CITY HALL
304 Main Cross St.
Charlestown, IN 47111
PH: (812) 256–3422

OWNER INFORMATION

om Charlestown realty llc
200 S. Frontage Road, Suite 310
Buff Ridge, IL 60527

PROPOSED PROJECTS ADDRESS

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

BUILDING INFORMATION:

MISCELLANEOUS BUILDING INFORMATION:
OCCUPANCY GROUP: (mixed) A–2
CONSTRUCTION TYPE V–B (non–sprinklered)
TOTAL SQUARE FOOTAGE: 2,187.0 sq.ft.
BUILDING DESIGN TO MEET EARTHQUAKE ZONE ONE
BUILDING TO MEET ADA (AMERICAN DISABILITY ACT)

ENGINEERING AND CERTIFICATION:

VERSATILE
CONSTRUCTION
GROUP, LLC.
570 East Tracy Road, Suite 610
New Whiteland, Indiana 46184
Ph: 317.535.3579 Fax: 317.535.3581

BAXTER ENGINEERING LLC
570 Tracy Road, Suite 610
New Whiteland, IN 46184
Office: 317–535–3579
Cell: 317–509–4142
BaxterEngineeringllc@gmail.com

PLANS CERTIFIED BY:
TRENT A. BAXTER P.E.
REGISTERED P.E. No. 19700309
DATE: May 02, 2025

TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER

Trent A Baxter
CERTIFIED BY:

INDEX TO DRAWINGS

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C300	SITE UTILITY PLAN
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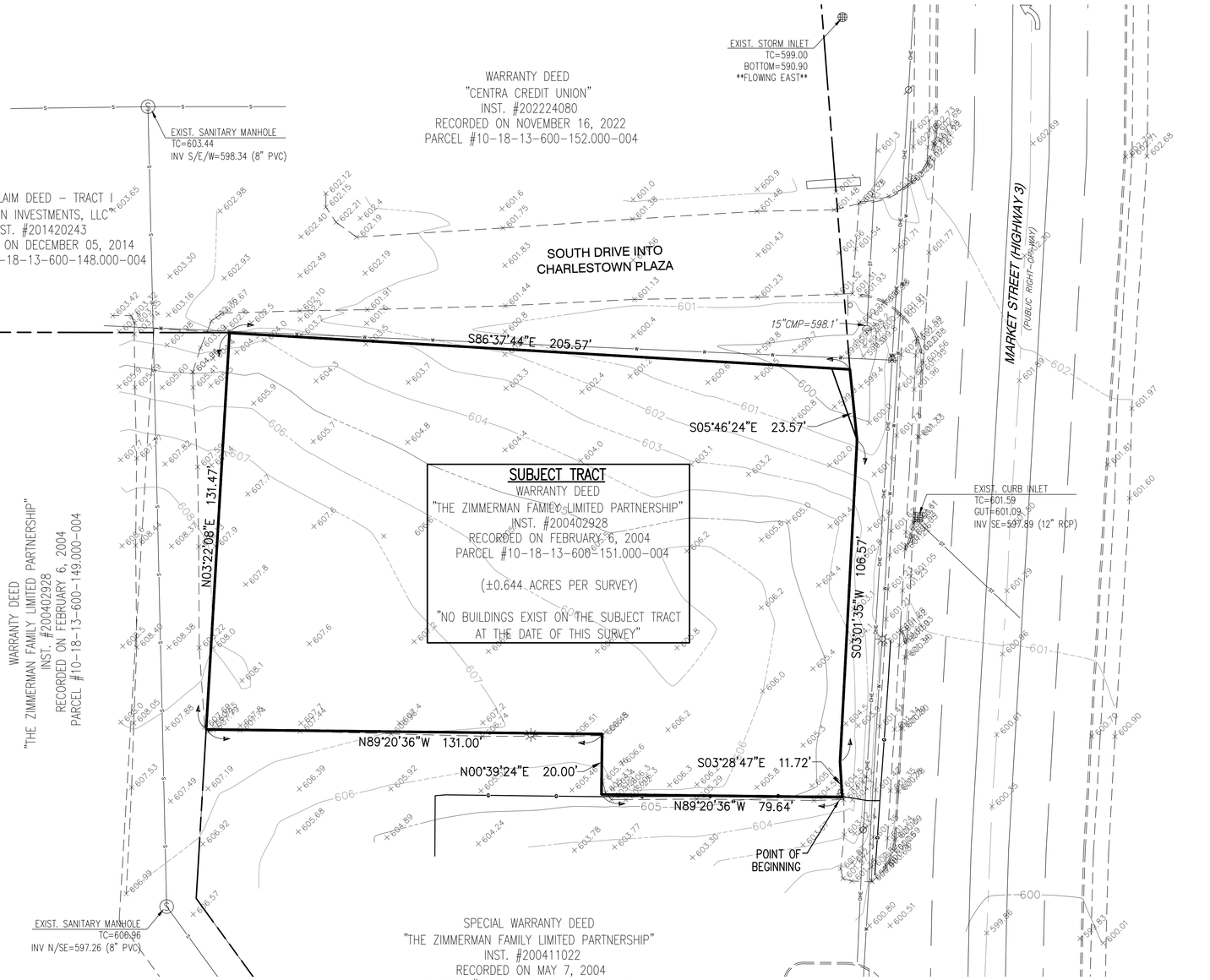
REVISION

09/16/2025	revised per INDOT comments
09/24/2025	revised entry drive, front grading, and sidewalk to public sidewalk
09/24/2025	revised electrical layout per duke
10/10/2025	revised per INDOT comments
12/03/2025	revised stormwater per INDOT comments
01/21/2026	revised address and drive–thru pavement

LEGAL DESCRIPTION:

Being a part of Survey #136 of the Illinois Grant in the Town of Charlestown, Charlestown Township, Clark County, Indiana, being more particularly described as follows:

COMMENCING at a 1"x1" square bolt marking the East corner of said Survey #136; thence South 54 degrees 27 minutes 00 seconds West along the dividing line between Survey #117 and Survey #136 a distance of 1788.00 feet to the centerline of State Road 3 (the next three (3) courses along said centerline); (1) thence North 10 degrees 25 minutes 00 seconds West a distance of 77.30 feet; (2) thence North 08 degrees 03 minutes 00 seconds West a distance of 114.20 feet; (3) thence North 06 degrees 23 minutes 00 seconds West a distance of 58.10 feet; thence North 35 degrees 46 minutes 45 seconds West a distance of 114.32 feet to the West right-of-way of State Road 3 (the next four (4) courses along said right-of-way); (1) thence North 03 degrees 19 minutes 15 seconds West a distance of 31.17 feet; (2) thence North 54 degrees 14 minutes 00 seconds East a distance of 20.15 feet; (3) thence North 00 degrees 39 minutes 24 seconds East a distance of 181.60 feet; (4) thence North 03 degrees 05 minutes 06 seconds West a distance of 87.47 feet to the POINT OF BEGINNING; thence North 89 degrees 20 minutes 36 seconds West a distance of 79.64 feet; thence North 00 degrees 39 minutes 24 seconds East a distance of 20.00 feet; thence North 89 degrees 20 minutes 36 seconds West a distance of 131.00 feet; thence North 03 degrees 22 minutes 08 seconds East a distance of 131.47 feet; thence South 86 degrees 37 minutes 44 seconds East a distance of 205.57 feet to the West right-of-way of State Road 3 (the next three (3) courses along said right-of-way); (1) thence South 05 degrees 46 minutes 24 seconds East a distance of 23.57 feet; (2) thence South 03 degrees 01 minutes 35 seconds West a distance of 106.57 feet; (3) thence South 03 degrees 28 minutes 47 seconds East a distance of 11.72 feet to the POINT OF BEGINNING, containing 0.644 acres, more or less.



BENCHMARK:

ORIGINATING BENCHMARK:
1"x1" SQUARE BOLT FOUND AT THE EAST CORNER OF SURVEY GRANT 136 PER CLARK COUNTY SURVEYOR REFERENCES LOCATED IN THE INTERSECTION OF MONROE STREET AND THE SCHOOL ENTRANCE TO THE CHARLESTOWN HIGH SCHOOL.
ELEVATION= 605.46 (NAVD88)

TEMPORARY ON-SITE BENCHMARK:

TOP OF CASTING OF A SANITARY MANHOLE LOCATED IN A DRIVE ON THE WEST SIDE OF THE SUBJECT TRACT, APPROXIMATELY 60 FEET SOUTH OF THE SOUTHWEST CORNER.
ELEVATION= 606.96 (NAVD88)

FLOOD PLANE INFORMATION:

THIS LOT LIES ENTIRELY IN FLOOD HAZARD ZONE "X" AS SCALED FROM THE F.E.M.A NATIONAL FLOOD HAZARD PANELS FOR CLARK COUNTY, INDIANA, CITY OF CHARLESTOWN, MAP NUMBER 18019C0183E, DATED APRIL 16, 2014.

LEGEND:

- EXISTING WATER MAIN LINE
- EXISTING SANITARY SEWER MAIN LINE
- EXISTING OVERHEAD UTILITY LINE
- EXISTING GAS MAIN LINE
- EXISTING STORM SEWER LINE
- EXISTING STORM SEWER CURB INLET

EXISTING SITE CONDITION PLAN
SCALE: 1"= 20.0'

Know what's below. Call before you dig.

UTILITY DISCLAIMER

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CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Existing & Site Condition Plan

Job No.	Date Stamped
25002	05/02/2025

Drawn By	Checked By	Scale:
caw	tab	1"= 20.0'

CAD FILE:
G:\25002\c100 existing site condition plan.dwg

THIS DRAWING IS THE PROPERTY OF VERSITILE CONSTRUCTION GROUP, LLC. ANY ALTERATION TO THIS DRAWING IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT AND UNDER THE DIRECTION OF THE PROFESSIONAL LICENSOR WHOSE SEAL IS AFFIXED TO THIS DRAWING.

SHEET TITLE:

C100

GENERAL PROPOSED SITE INFORMATION:

DESCRIPTIONS:	AREAS:
BUILDING AREAS:	
PROPOSED BUILDING:	2,187.00 sq.ft.
TOTAL PROJECT AREA:	0.644± acres
ZONING:	
PROPERTY ZONING:	HISTORIC DOWNTOWN DISTRICT
NORTH ZONING:	HISTORIC DOWNTOWN DISTRICT
SOUTH ZONING:	HISTORIC DOWNTOWN DISTRICT
EAST ZONING:	HISTORIC DOWNTOWN DISTRICT
WEST ZONING:	HISTORIC DOWNTOWN DISTRICT
PARKING INFORMATION:	
PARKING SPACES REQUIRED:	
RESTAURANT:	
1 PER 400.0 sq.ft. & 1 PER 2 EMPLOYEES	5 EMPLOYEES
TOTAL PARKING REQUIRED:	9 SPACES
TOTAL PARKING PROVIDED:	24 SPACES (inc. 1 HDCP SPACE)
PROPERTY BUILDING SET-BACKS:	
NORTH SIDE YARD:	0.0'
SOUTH SIDE YARD:	0.0'
EAST FRONT YARD:	12.0' (MIN.) 22.0' (MAX.)
WEST REAR YARD:	0.0'

LEGAL DESCRIPTION:

Being a part of Survey #136 of the Illinois Grant in the Town of Charlestown, Charlestown Township, Clark County, Indiana, being more particularly described as follows:

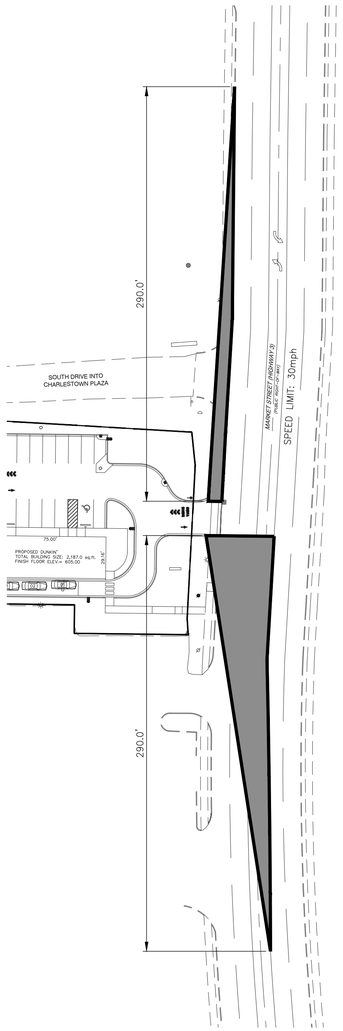
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GENERAL NOTES:

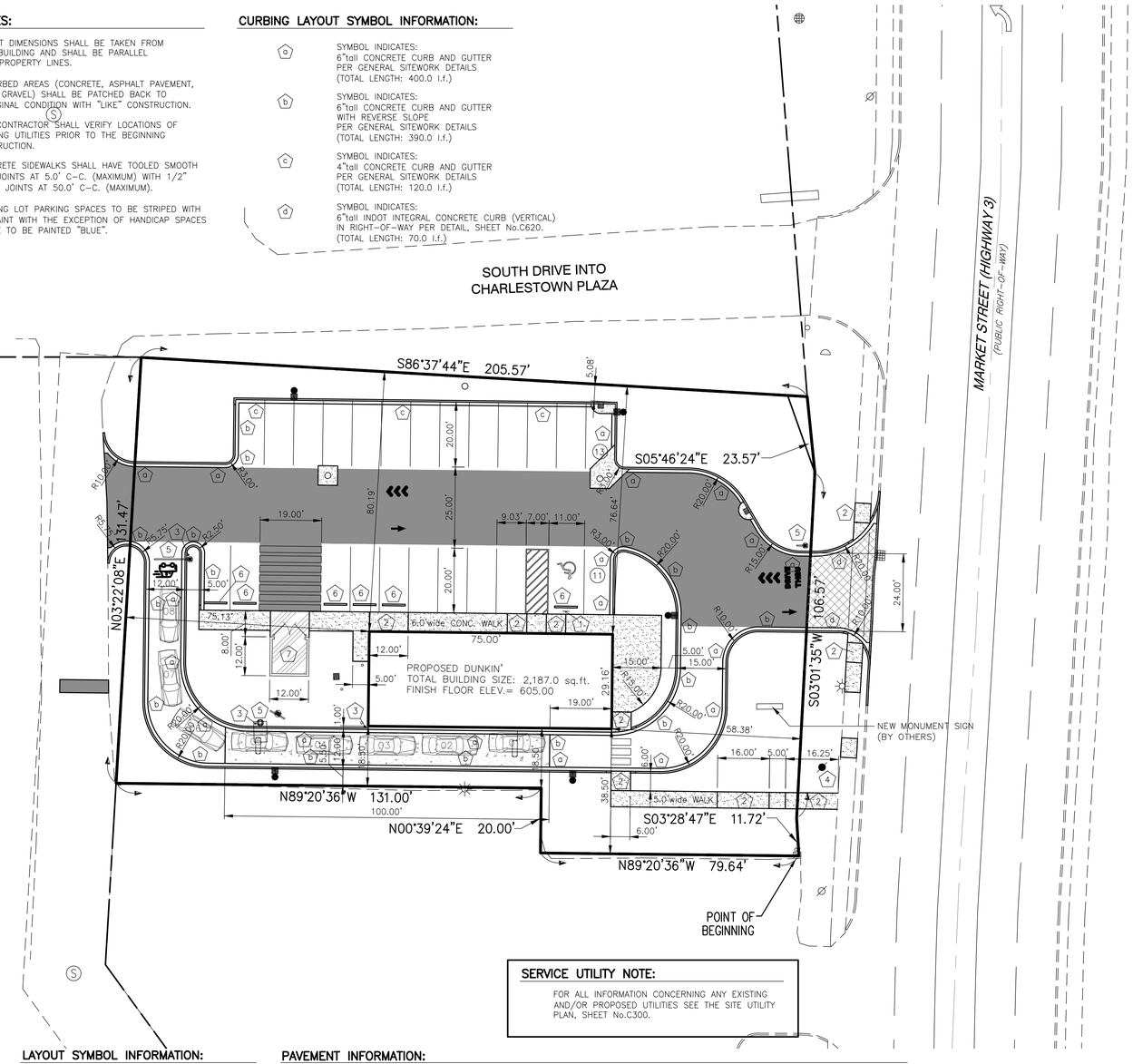
1. ALL LAYOUT DIMENSIONS SHALL BE TAKEN FROM THE NEW BUILDING AND SHALL BE PARALLEL WITH THE PROPERTY LINES.
2. ALL DISTURBED AREAS (CONCRETE, ASPHALT PAVEMENT, DIRT, AND GRAVEL) SHALL BE PATCHED BACK TO THEIR ORIGINAL CONDITION WITH "LIKE" CONSTRUCTION.
3. GENERAL CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. ALL CONCRETE SIDEWALKS SHALL HAVE TOOLED SMOOTH CONTROL JOINTS AT 5.0' C-C. (MAXIMUM) WITH 1/2" EXPANSION JOINTS AT 50.0' C-C. (MAXIMUM).
5. ALL PARKING LOT PARKING SPACES TO BE STRIPED WITH "WHITE" PAINT WITH THE EXCEPTION OF HANDICAP SPACES WHICH ARE TO BE PAINTED "BLUE".

CURBING LAYOUT SYMBOL INFORMATION:

- (a) SYMBOL INDICATES: 6"tall CONCRETE CURB AND GUTTER PER GENERAL SITEWORK DETAILS (TOTAL LENGTH: 400.0 l.f.)
- (b) SYMBOL INDICATES: 6"tall CONCRETE CURB AND GUTTER WITH REVERSE SLOPE PER GENERAL SITEWORK DETAILS (TOTAL LENGTH: 390.0 l.f.)
- (c) SYMBOL INDICATES: 4"tall CONCRETE CURB AND GUTTER PER GENERAL SITEWORK DETAILS (TOTAL LENGTH: 120.0 l.f.)
- (d) SYMBOL INDICATES: 6"tall INDOT INTEGRAL CONCRETE CURB (VERTICAL) IN RIGHT-OF-WAY PER DETAIL, SHEET No.C620. (TOTAL LENGTH: 70.0 l.f.)



SITE DISTANCE TRIANGLES PLAN
SCALE: 1"= 50.0'



SITE LAYOUT PLAN
SCALE: 1"= 20.0'

SERVICE UTILITY NOTE:

FOR ALL INFORMATION CONCERNING ANY EXISTING AND/OR PROPOSED UTILITIES SEE THE SITE UTILITY PLAN, SHEET No.C300.

LAYOUT SYMBOL INFORMATION:

- (1) METAL HANDICAP PARKING SIGN (SEE SITEWORK DETAILS)
- (2) CONCRETE HANDICAP RAMPS (SEE SITEWORK DETAILS)
- (3) 6" (CONC. FILLED) PIPE BOLLARDS (SEE SITEWORK DETAILS)
- (4) NEW POWER POLE AND POLE MOUNTED TRANSFORMER LOCATION (CONSTRUCTED AND EXACT PLACEMENT PER LOCAL POWER COMPANY)
- (5) MENU BOARD AND SPEAKER POST (EXACT PLACEMENT, SIZE, TYPE -INC. FOUNDATION BY OTHERS) NOTE: ALL DUNKIN' SIGNS, HEIGHT BARS, MENU BOARDS, SPEAKER POST, ETC. AND ANYTHING ELSE CONCERNING THE DRIVE-THRU ELECTRICAL REQUIREMENTS SHALL BE BY OTHERS
- (6) PREFABRICATED CONCRETE PARKING BUMPERS (SEE SITEWORK DETAILS)
- (7) CONCRETE BLOCK DUMPSTER ENCLOSURE (SEE SITEWORK DETAILS)
- (*) SYMBOL INDICATED THE NUMBER OF PARKING SPACING SHOWN IN A PARTICULAR ROW

PAVEMENT INFORMATION:

NO HATCH INDICATES: NORMAL DUTY PAVEMENT OF 1 1/2" HOT ASPHALT SURFACE OVER 2" BITUMINOUS BASE ON 6" COMPACTED No.53 STONE BASE ON COMPACTED SUB-GRADE TOTAL AREA: 6,400.0 sq.ft. (SEE SITEWORK DETAILS)

HATCH INDICATES: HEAVY DUTY PAVEMENT OF 1 1/2" HOT ASPHALT SURFACE OVER 4" BITUMINOUS BASE ON 8" COMPACTED No.53 STONE BASE ON COMPACTED SUB-GRADE TOTAL AREA: 5,875.0 sq.ft. (SEE SITEWORK DETAILS)

HATCH INDICATES: 6" CONCRETE SLAB WITH 6-6-6 W.W.F. OVER 6" COMPACTED GRANULAR FILL ON COMPACTED SUB-GRADE TOTAL AREA: 1150.0 sq.ft. (SEE SITEWORK DETAILS)

HATCH INDICATES: 7" CONCRETE SLAB WITH 6-6-6 W.W.F. OVER 6" COMPACTED GRANULAR FILL ON COMPACTED SUB-GRADE TOTAL AREA: 225.0 sq.ft. (SEE SITEWORK DETAILS)

HATCH INDICATES: RIGHT-OF-WAY PAVEMENT OF 9" PCCP (CONCRETE) SURFACE ON DENSE GRADED SUBBASE 6 in., ON GEOGRID TYPY 1B, ON SUBGRADE TREATMENT TYPE II (6 in. COARSE AGGREGATED No. 53) TOTAL AREA: 525.0 sq.ft. (SEE SITEWORK DETAILS)

HATCH INDICATES: 4" COMPACTED SIDEWALK WITH 6-6-6 W.W.F. OVER 4" COMPACTED GRANULAR FILL ON COMPACTED SUB-GRADE TOTAL AREA: 1,725.0 sq.ft. (SEE SITEWORK DETAILS)

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N

REVISION

09/24/2025	revised entry drive, front grading, and sidewalk to public sidewalk
10/10/2025	revised per INDOT comments
12/03/2025	revised stormwater per INDOT comments
01/21/2026	revised address and drive-thru pavement

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Site Layout Plan

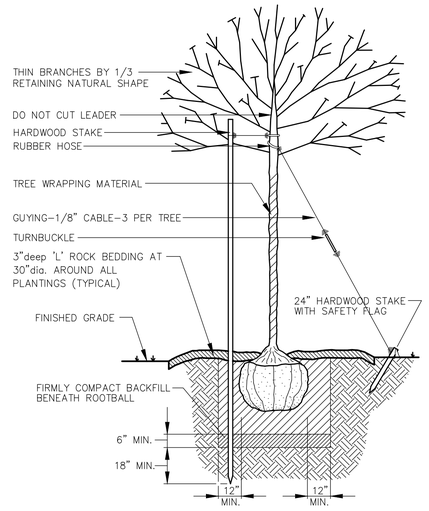
Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: 1"= 20.0'	

CAD FILE: G:\25002\c200 site layout plan.dwg

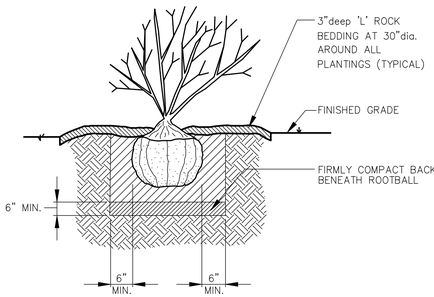
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SHEET TITLE:

C200



TREE PLANTING DETAIL
NO SCALE



SHRUB PLANTING DETAIL
NO SCALE

SHRUB AND TREE PLANTING NOTES:

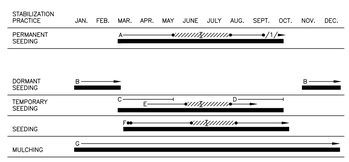
1. GROUND LINE TO BE THE SAME AS NURSERY. ROOTBALL RAISED 1 1/2" ABOVE FIN. GRADE TO ALLOW FOR SETTLING.
2. CONSTRUCT 3"deep 'L' ROCK RING AROUND ALL TREES & SHRUBS. FLOOD TWICE W/ IN 24 HRS.
3. CUT AND REMOVE BURLAP FROM TOP OF ROOTBALL.

PLANTING SPECIFICATIONS:

1. ALL PLANT MATERIALS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS NURSERY STOCK OF NURSERYMEN. PLANTS SHALL BE TYPICAL OF SPECIES AND VARIETY, AND HAVE NORMAL, WELL-DEVELOPED BRANCHING STRUCTURE AND VIGOROUS FIBROUS ROOT SYSTEM.
2. PLANTS SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM INSECTS AND DISEASE. TRUNK AND STEMS SHALL BE FIRM WITH NO INDICATION OF FUNGUS CANKERS OR CALLS, INSECT BORERS, DIEBACK, FRONT CRACKS, OR OTHER DEFECTS.
3. ALL PLANTS SHALL BE COMMERCIALLY GROWN AND NO PLANTS FROM THE WILD SHALL BE ACCEPTABLE WITHOUT SPECIFIC APPROVAL FROM THE DIVISION OF BUILDING INSPECTION.
4. TREES SHALL NOT BE ACCEPTABLE IF THEIR CENTRAL LEADER HAS BEEN CUT OR IS DAMAGED SO THAT CUTTING IS NECESSARY.
5. PLANTS SHALL NOT BE PRUNED PRIOR TO INSTALLATION. ANY NECESSARY PRUNING SHALL BE DONE IMMEDIATELY AFTER THE TIME OF INSTALLATION.
6. PLANT HEIGHT SHALL BE MEASURED BEFORE PRUNING WITH BRANCHES IN A NORMAL POSITION. NO PLANT SHALL BE PRUNED BACK TO SUCH AN EXTENT THAT IT NO LONGER MEETS THE REQUIRED SIZE SPECIFICATIONS.
7. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE BALLED AND BURLAPPED. NO BARE ROOT TREES SHALL BE ACCEPTABLE.
8. THE MINIMUM SIZE OF BALLS, BALL DEPTHS, AND BALL DIAMETERS SHALL BE IN ACCORDANCE WITH RECOMMENDED BALLING AND BURLAPPING SPECIFICATIONS AS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS OF NURSERY STOCK.
9. ALL BALLED AND BURLAPPED PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE SEALED IN AND PROTECTED WITH BURLAP OR OTHER ACCEPTED MATERIAL.
10. IDEAL TREES SELECTED FOR THIS PROJECT HAVE A STRAIGHT TRUNK, ROUNDED OR OVAL FORM, AND SYMMETRICAL BRANCHING PATTERN.
11. ALL TREES AND SHRUBS SHOWN ON THIS DRAWING SHALL BE PLACED IN A MANNER TO ALLOW FOR AMPLE ROOM TO DEVELOP.
12. IF WORK IS REQUIRED WITHIN THE EASEMENTS CAUSING REMOVAL OR DAMAGE OF LANDSCAPE MATERIALS, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR REPLACEMENT OF MATERIALS ACCORDING TO THE APPROVED LANDSCAPE PLAN.
13. INSTALLATION OF A WEED BARRIER IS REQUIRED IN ALL MULCHED/ LANDSCAPED AREAS.

Seasonal Soil Protection Chart

TABLE "A"
SEASONAL SOIL PROTECTION CHART



A= KENTUCKY BLUEGRASS 40 LBS/ACRE; CREEPING RED FESCUE 40 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS/ACRE.

B= KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.

C= SPRING OATS 3BUSHEL/ACRE.

D= WHEAT OR RYE 2 BUSHEL/ACRE.

E= ANNUAL RYEGRASS 40 LBS/ACRE. (1 LB/1,000 S.F.)

F= SOD.

G= STRAW MULCH 2 TONS/ACRE.

•/•= IRRIGATION NEEDED DURING JUNE, JULY AND / OR SEPT.

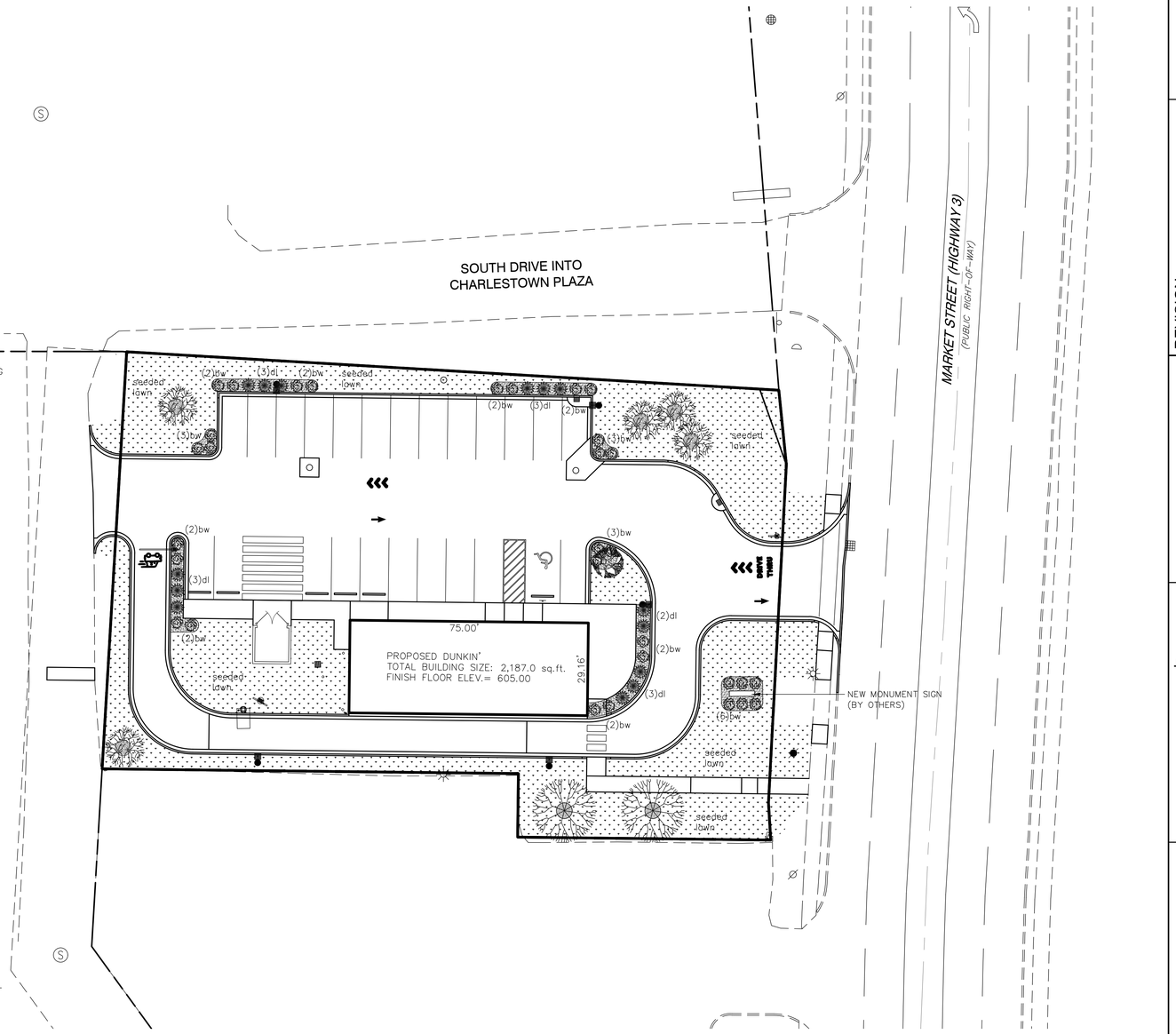
•• = IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

Landscaping Notes

1. All plant materials to meet minimum standards set by American Association of Nurserymen, latest published addition of American Standard for Nursery Stock.
2. All areas disturbed by construction and not otherwise paved or landscaped and all lawn areas shall be seeded with straw as specified.
3. All lawn areas to be raked smooth, fertilized and watered prior to seeding.

% of mix.	Name of grass	Application
39.86%	Falcon IV tall fescue	1.5 #/1,000 sq.ft.
29.80%	Scorpion II tall fescue	1.5 #/1,000 sq.ft.
29.60%	Six point tall fescue	1.5 #/1,000 sq.ft.
00.72%	Inert	1.5 #/1,000 sq.ft.
00.02%	Other weeds	1.5 #/1,000 sq.ft.

4. Planting soil for tree and shrub pits to be backfilled with the soil that was removed from the planting pit.



SITE LANDSCAPING PLAN
SCALE: 1"= 20.0'

NOTE:
ALL DISTURBED AREAS (OVER THIS ENTIRE PROJECT DEVELOPMENT) SHALL BE FINISH GRADED AND SEEDED PER EROSION CONTROL PLANS PRIOR TO COMPLETION.

LANDSCAPE LEGEND:

EVERGREEN SHADE TREES:
BOTANICAL NAME: PICEA ABIES
COMMON NAME: NORWAY SPRUCE
CALIPER: 2" (single stem)
QUANTITY: 02
5.0'dia. MULCH BEDDING

DECIDUOUS ORNAMENTAL TREES:
BOTANICAL NAME: CERCIS CANADENSIS
COMMON NAME: EASTERN REDBUD
CALIPER: 1 1/2" (single stem)
QUANTITY: 05
5.0'dia. MULCH BEDDING

DECIDUOUS ORNAMENTAL TREE:
BOTANICAL NAME: LIRIODENDRON TULIPIFERA
COMMON NAME: TULIP TREE
CALIPER: 1 1/2" (single stem)
QUANTITY: 01
5.0'dia. MULCH BEDDING

(*)bw
EVERGREEN SHRUB:
BOTANICAL NAME: BUXUS CALYCANTHUS
COMMON NAME: MELANOCARPA BOXWOOD
HEIGHT AT PLANTING: 24" (MIN)
QUANTITY: 31
(MATURE HT.= 24"tall)

(*)dl
DECIDUOUS SHRUB:
BOTANICAL NAME: SYRINGA MEYERI 'PALIBIN'
COMMON NAME: DWARF LILAC
HEIGHT AT PLANTING: 24" (MIN)
QUANTITY: 14
(MATURE HT.= 36"tall)

HATCH INDICATES:
AREAS OF LAWN (SEEDED) ON THIS PROJECT

HATCH INDICATES:
AREAS OF MULCH BEDDING ON THIS PROJECT

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

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Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

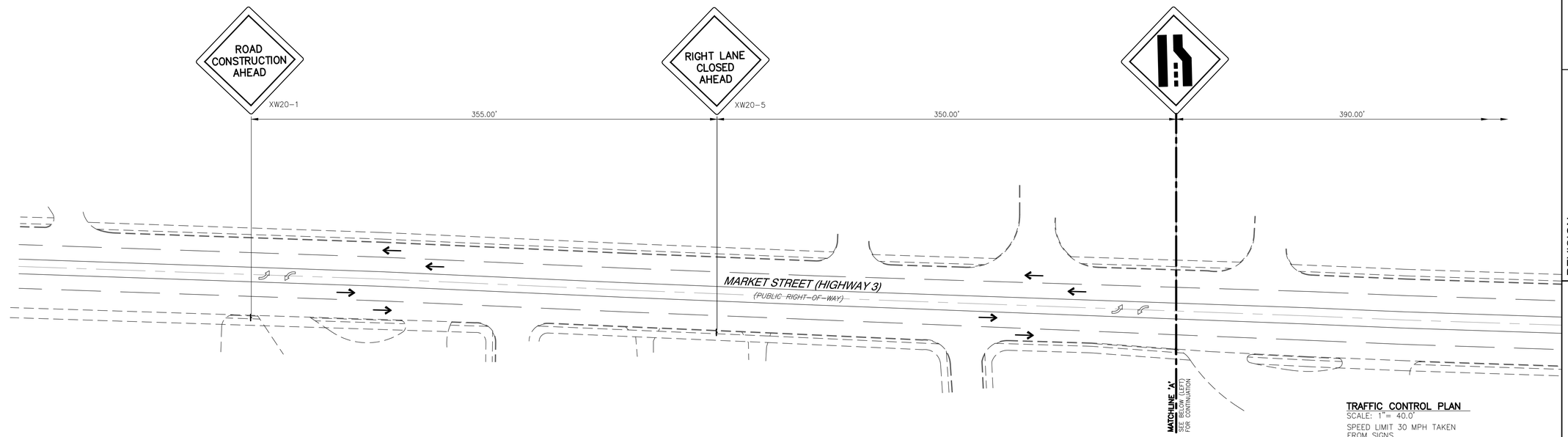
Site Landscaping & Plan

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: 1"= 20.0'	

CAD FILE:
G:\25002\c200 site landscaping plan.dwg

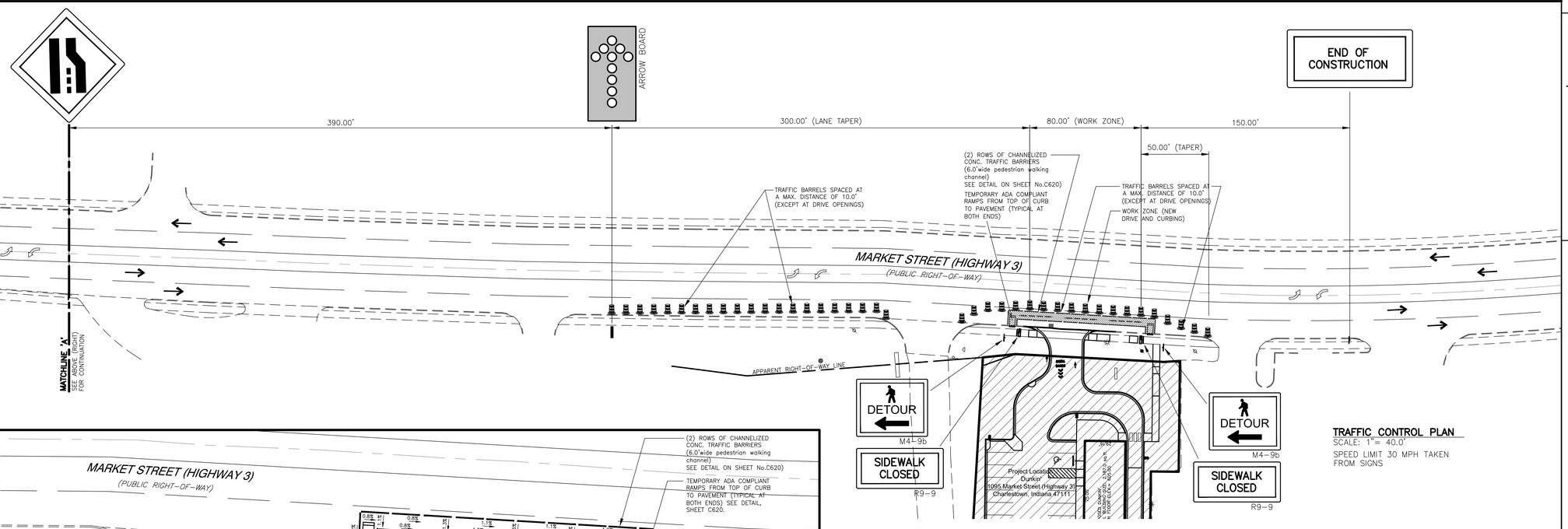
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SHEET TITLE:
C210



TRAFFIC CONTROL PLAN
SCALE: 1"= 40.0'

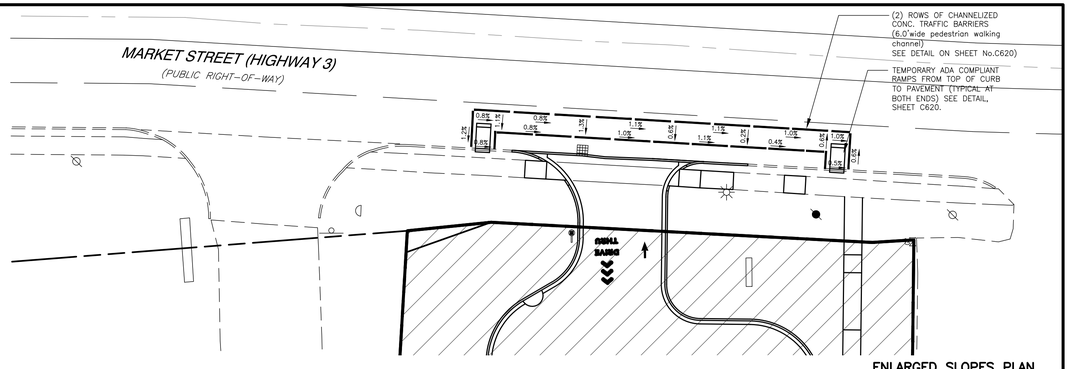
SPEED LIMIT 30 MPH TAKEN FROM SIGNS



TRAFFIC CONTROL PLAN
SCALE: 1"= 40.0'

SPEED LIMIT 30 MPH TAKEN FROM SIGNS

NOTE:
LANE CLOSURES WILL REMAIN IN PLACE WHILE ALL WORK BEING DONE IN THE RIGHT-OF-WAY IS COMPLETED.



ENLARGED SLOPES PLAN
SCALE: 1"= 20.0'

UTILITY DISCLAIMER

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REVISION

09/24/2025	revised entry drive, front grading, and sidewalk to public sidewalk
10/10/2025	revised per INDOT comments
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12/03/2025	revised stormwater per INDOT comments

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TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER

Trent A Baxter

CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Traffic Control Plan

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: 1"= 20.0'	

CAD FILE:
G:\25002\c220 site traffic control plan.dwg

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SHEET TITLE:

C220

UTILITY CONSTRUCTION NOTES:

1. Site Contractor shall have approval of all governing agencies having jurisdiction over these systems prior to any installations.
2. The Sanitary Sewer pipe material shall be pvc unless otherwise noted. All pipes shall meet the ASTM 3034 with the wall thickness equal to SDR 35. The pipe shall be joined with rubber ring gaskets as specified in ASTM 3034 and shall be installed in accordance with ASTM 2321. Furthermore the pipe material cell classification shall be 12454B as per ASTM 1784.
3. All trenching, pipe laying, and backfilling shall be in accordance with all federal OSHA regulations.
4. Site contractor shall be responsible for repairs to any existing utilities damaged during construction.
5. The contractor shall refer to the Architect's plans and specifications for the actual location of all utility entrances to include sanitary sewer laterals, domestic and fire protection water services, electrical, telephone, and gas services. The contractor shall coordinate installation of utilities in such a manner as to avoid conflicts and assure proper depths are achieved, as well as coordinating with the regulatory agency as to the location and scheduling of all tie-ins/connections to said services.
6. All vertical bends on the proposed water mains shall be restrained with a mechanical joint fittings supplied with retainer glands. Any joints 25 feet or less from either side of the vertical bends shall be restrained with a retainer gland.
7. All dimensions shown here are to centerline of pipe, fitting, or structure.
8. All valves shall be installed in a cast iron valve box with cover.
9. Thrust blocking shall be provided at all horizontal bends, tees, and fire hydrants.
10. The minimum cover depths of all water line/mains shall be 54" deep.
11. All pipes 3" in diameter and smaller shall be type K copper. All fittings shall be copper or cast bronze. All joints shall be solder or flare type joints.
12. The minimum horizontal separation between the closest two points of the water service and sanitary sewer service lines is to be ten feet (10'). The minimum vertical separation between the closest two points of the water service and sanitary sewer service lines is twenty-four inches (24").
13. All water mains shall be hydrostatically tested and disinfected before acceptance, as per AWWA standard specifications.

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION (TICKET No.2411044992, Date: 11/04/2024) AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

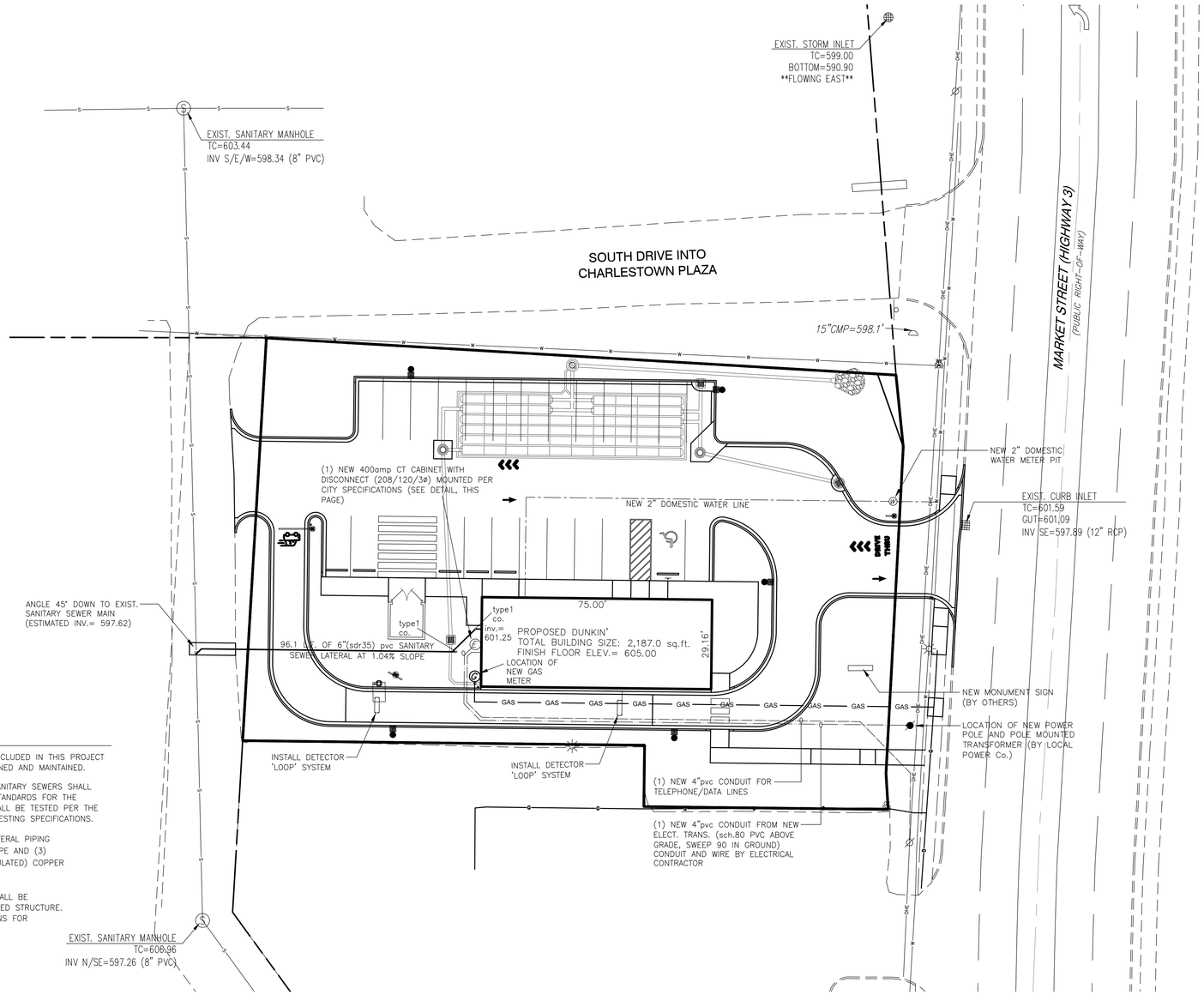
PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

WATER SERVICE NOTE:

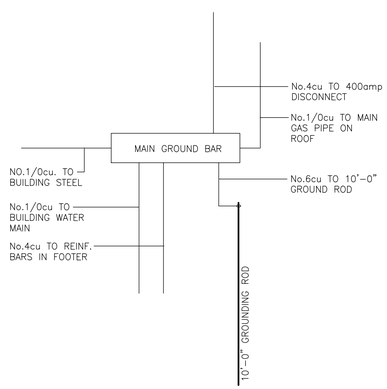
1. ALL WATER LINES INCLUDED IN THIS PROJECT SHALL BE PRIVATELY OWNED AND MAINTAINED.
2. ALL NEWLY INSTALLED WATER LINES SHALL MEET OR EXCEED THE STANDARDS FOR PUBLIC UTILITIES AND SHALL BE TESTED PER THE CITY OF CHARLESTOWN TESTING SPECIFICATIONS.
3. ALL NEWLY INSTALLED WATER METERS SHALL BE OBTAINED FROM THE LOCAL WATER COMPANY.
4. ALL WATER SERVICE PIPING SHALL HAVE WARNING TAPE AND (3) STRANDS OF 10ga. (INSULATED) COPPER LOCATOR WIRE (typical)

SANITARY SEWER NOTES:

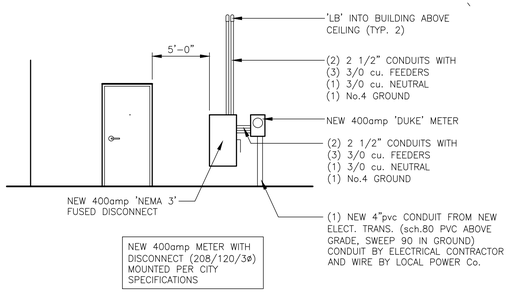
1. ALL SANITARY SEWERS INCLUDED IN THIS PROJECT SHALL BE PRIVATELY OWNED AND MAINTAINED.
2. ALL NEWLY INSTALLED SANITARY SEWERS SHALL MEET OR EXCEED THE STANDARDS FOR THE PUBLIC SEWERS AND SHALL BE TESTED PER THE CITY OF CHARLESTOWN TESTING SPECIFICATIONS.
3. ALL SANITARY SEWER LATERAL PIPING SHALL HAVE WARNING TAPE AND (3) STRANDS OF 10ga. (INSULATED) COPPER LOCATOR WIRE (typical)
4. GREASE INTERCEPTOR SHALL BE LOCATED IN THE PROPOSED STRUCTURE. SEE ARCHITECTURAL PLANS FOR LOCATION AND SIZE.



SITE UTILITY PLAN
SCALE: 1"= 20.0'



GROUNDING RISER
scale: n.t.s.



NEW 400amp METER WITH DISCONNECT (208/120/3ø) MOUNTED PER CITY SPECIFICATIONS

ELECTRICAL RISER DIAGRAM
scale: n.t.s.

LEGEND:

- EXISTING WATER MAIN LINE
- EXISTING SANITARY SEWER MAIN LINE
- EXISTING OVERHEAD UTILITY LINE
- EXISTING GAS MAIN LINE
- EXISTING STORM SEWER LINE
- EXISTING STORM SEWER CURB INLET
- PROPOSED WATER SERVICE LINE
- PROPOSED SANITARY SEWER SERVICE LINE
- SCREW TOP SANITARY SEWER CLEANOUTS
- type 1 co. (PER SITEWORK DETAILS)
- type 2 co. (PER SITEWORK DETAILS)
- PROPOSED UNDERGROUND ELECTRICAL LINE
- PROPOSED ELECTRICAL METER
- PROPOSED UNDERGROUND COMMUNICATION LINES
- PROPOSED GAS LINES
- PROPOSED GAS METERS
- PROPOSED STORM SEWER PIPES
- PROPOSED STORM SEWER MANHOLES AND INLETS

NOTE:
ALL DUNKIN' SIGNS, HEIGHT BARS, MENU BOARDS, SPEAKER POST, ETC. AND ANYTHING ELSE CONCERNING THE DRIVE-THRU ELECTRICAL REQUIREMENTS SHALL BE BY OTHERS

SERVICE UTILITY NOTE:

FOR ALL INFORMATION CONCERNING ANY EXISTING AND/OR PROPOSED STORM WATER UTILITIES SEE THE SITE GRADING PLAN, SHEET No.C400 AND C410.

ELECTRICAL NOTE:

TOP OF ALL NEW ELECTRICAL SERVICE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 36" BELOW FINISH GRADE.

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N

REVISION

09/24/2025	revised entry drive, front grading, and sidewalk to public sidewalk
09/24/2025	revised electrical layout per duke
10/10/2025	revised per INDOT comments
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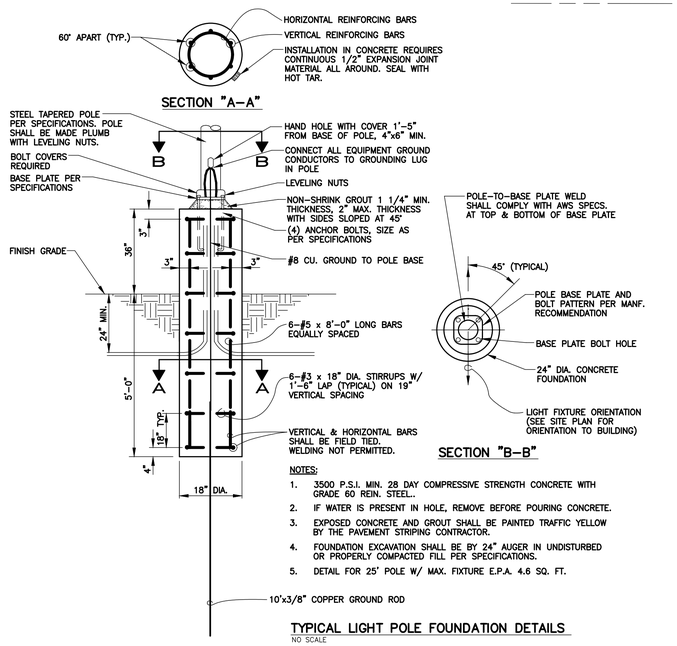
Site Utility Plan

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: 1"= 20.0'	

CAD FILE: G:\25002\c300 site utility plan.dwg

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SHEET TITLE:
C300

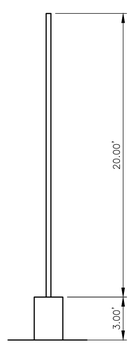


NOTES:

1. 3500 P.S.I. MIN. 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 REIN. STEEL..
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. EXPOSED CONCRETE AND GROUT SHALL BE PAINTED TRAFFIC YELLOW BY THE PAVEMENT STRIPING CONTRACTOR.
4. FOUNDATION EXCAVATION SHALL BE BY 24" AUGER IN UNDISTURBED OR PROPERLY COMPACTED FILL PER SPECIFICATIONS.
5. DETAIL FOR 25' POLE W/ MAX. FIXTURE E.P.A. 4.6 SQ. FT.

TYPICAL LIGHT POLE FOUNDATION DETAILS

NO SCALE



TYPICAL SITE LIGHT POLES ELEVATION

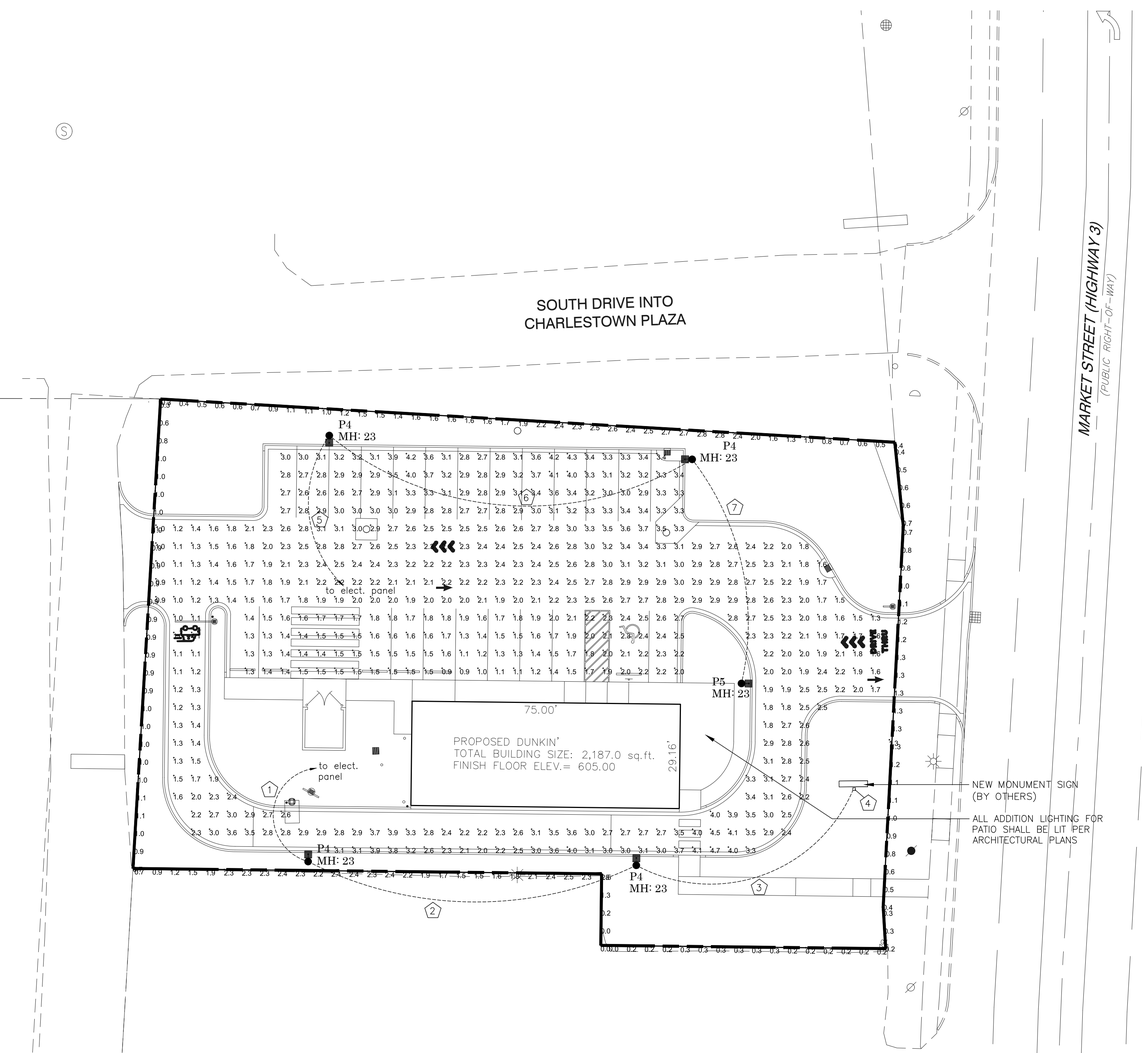
NO SCALE

SITE LIGHTING NOTE:

1. ALL ADDITION LIGHTING FOR PATIO SHALL BE LIT PER ARCHITECTURAL PLANS
2. SEE ARCHITECTURAL PLANS FOR EXACT PLACEMENT OF ALL WALL MOUNTED LIGHTING FIXTURES.

SITE LIGHTING WIRING INFORMATION:

1. (1) 1"pvc CONDUIT WITH (2) No.8 FEEDERS (1) No.8 NEUTRAL (1) No.10 GROUND
2. (1) 1"pvc CONDUIT WITH (2) No.10 FEEDERS (1) No.10 NEUTRAL (1) No.10 GROUND
3. (1) 1"pvc CONDUIT WITH (2) No.12 FEEDERS (1) No.12 NEUTRAL (1) No.12 GROUND
4. (1) 6"x 6"x 6"pvc JUNCTION BOX
5. (1) 1"pvc CONDUIT WITH (2) No.8 FEEDERS (1) No.10 GROUND
6. (1) 1"pvc CONDUIT WITH (2) No.10 FEEDERS (1) No.10 GROUND
7. (1) 1"pvc CONDUIT WITH (2) No.12 FEEDERS (1) No.12 GROUND



SITE PHOTOMETRIC PLAN

SCALE: 1"= 20.0'

Luminaire Schedule					
Symbol	Qty	Label	Description	Luminaire Watts	BUG Rating
	1	P5	PRV-C40-D-UNV-T5-BZ	131	B4-U0-G4
	4	P4	PRV-C40-D-UNV-T4-BZ-HSS	131	B2-U0-G4

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	2.37	4.7	0.9	2.63	5.22
Property Line	Illuminance	Fc	1.19	2.8	0.0	N.A.	N.A.

Luminaires & Lamps Furnished By Villa Lighting Inc. St Louis, MO. 63103
(800)325-0963
www.villalighting.com

The electrical contractor shall be responsible for receiving, storage, installation and wiring of light fixtures.

The electrical contractor shall report any damaged light fixtures or missing parts to Villa Lighting within 48 hours of receipt of light fixture package.

Design is based on current information provided at the time of request. Any changes in mounting height, mounting location, lamp wattage, lamp type, and existing field conditions that effect any of the previously mentioned will void the current layout and require a change request and recalculation. Calculations are based upon a computer simulation and actual field calculations may vary.

Fixtures mounted on 20' pole & 3' base
Light level calculated on the ground

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10/10/2025	revised per INDOT comments
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REGISTERED PROFESSIONAL ENGINEER TRENT A. BAXTER No. 19700309 STATE OF INDIANA

Trent A Baxter

CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Photometric Plan

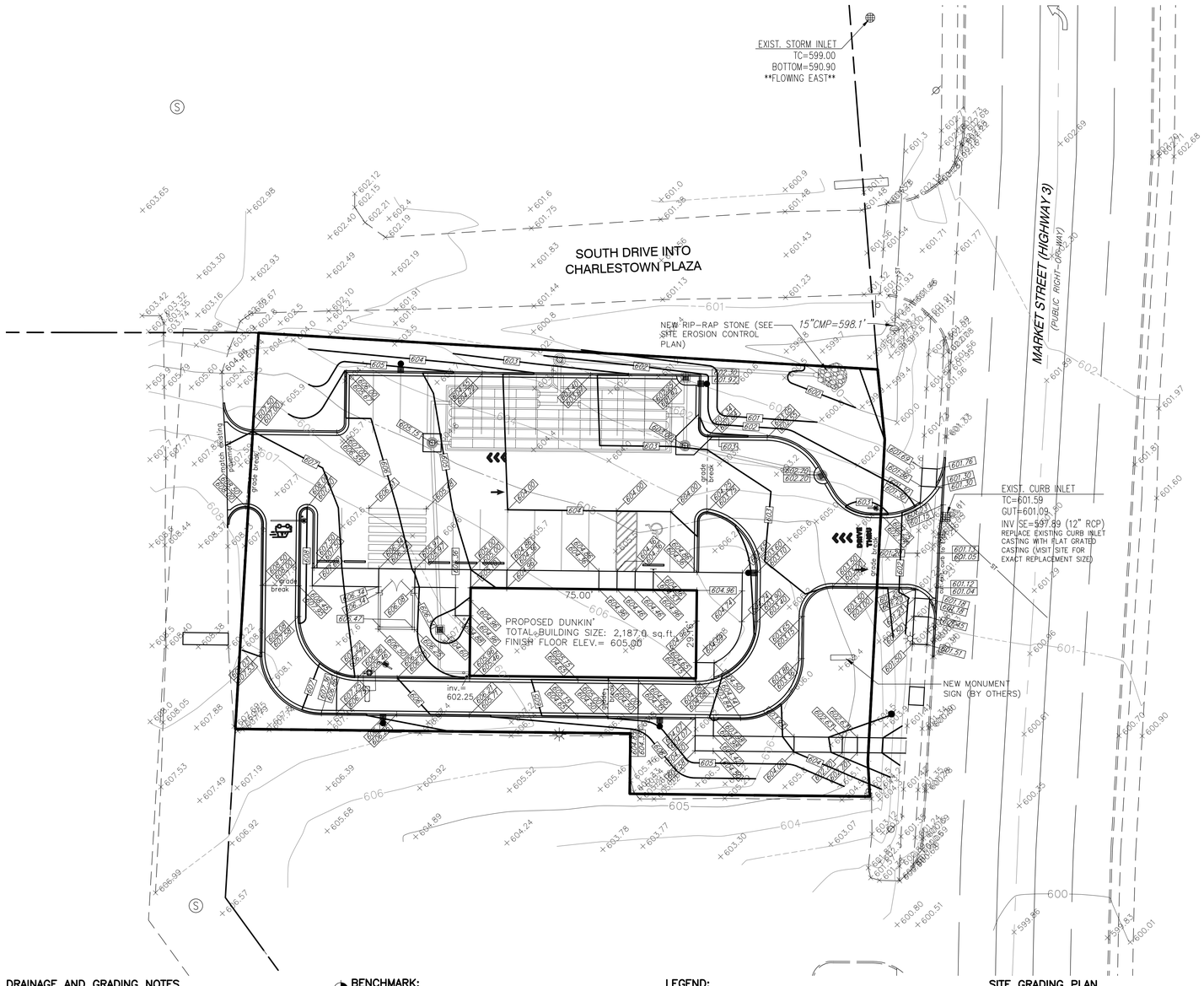
Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: 1"= 20.0'	

CAD FILE:
G:\25002\c310 site photometric plan.dwg

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SHEET TITLE:

C310



STORM DRAINAGE AND GRADING NOTES

1. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
3. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
4. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OF CENTERLINE OF STURCTURE.
5. GRADES SHOWN ARE FINISHED GRADES. FOR BUILDING SUBGRADE ELEVATIONS REFER TO ARCHITECTURAL PLANS.
6. ALL DIMENSIONS OR COORDINATES SHOWN TO BUILDING ARE TO OUTSIDE
7. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER
8. THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE
9. ALL FILL AREAS TO BE COMPACTED CLAY ROLLED IN WITH A SHEEPS FOOT ROLLER IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR. VERIFICATION OF THE COMPACTION SHALL BE DONE BY AN INDEPENDENT SOILS TESTING COMPANY AND ALL TEST RESULTS SUBMITTED TO THE ENGINEER.

BENCHMARK:

ORIGINATING BENCHMARK:
1"x1" SQUARE BOLT FOUND AT THE EAST CORNER OF SURVEY GRANT 136 PER CLARK COUNTY SURVEYOR REFERENCES LOCATED IN THE INTERSECTION OF MONROE STREET AND THE SCHOOL ENTRANCE TO THE CHARLESTOWN HIGH SCHOOL.
ELEVATION= 605.46 (NAVD88)

TEMPORARY ON-SITE BENCHMARK:

TOP OF CASTING OF A SANITARY MANHOLE LOCATED IN A DRIVE ON THE WEST SIDE OF THE SUBJECT TRACT, APPROXIMATELY 60 FEET SOUTH OF THE SOUTHWEST CORNER.
ELEVATION= 606.96 (NAVD88)

FLOOD PLANE INFORMATION:

THIS LOT LIES ENTIRELY IN FLOOD HAZARD ZONE "X" AS SCALED FROM THE F.E.M.A NATIONAL FLOOD HAZARD PANELS FOR CLARK COUNTY, INDIANA, CITY OF CHARLESTOWN, MAP NUMBER 18019C0183E, DATED APRIL 16, 2014.

EROSION CONTROL INFORMATION:

SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND INSTALLATION OF ALL EROSION CONTROL MEASURES REQUIRED ON THIS SITE.

LEGEND:

- +607.6 — EXISTING SPOT ELEVATION
- 604 — EXISTING CONTOURS LINES
- ST — EXISTING STORM SEWER PIPES
- EXISTING STORM SEWER STRUCTURES
- 608.00 top of curb / 607.50 pavement — PROPOSED SPOT ELEVATION
- 606 — PROPOSED CONTOURS LINES
- PROPOSED STORM SEWER PIPES
- PROPOSED STORM SEWER MANHOLES AND INLETS

SITE GRADING PLAN

SCALE: 1"= 20.0'

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Trent A Baxter

CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Grading Plan

Job No.	Date Stamped
25002	05/02/2025

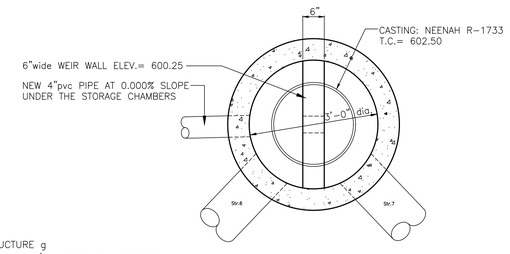
Drawn By	Checked By	Scale:
caw	tab	1"= 20.0'

CAD FILE:
G:\25002\c400 site grading plan.dwg

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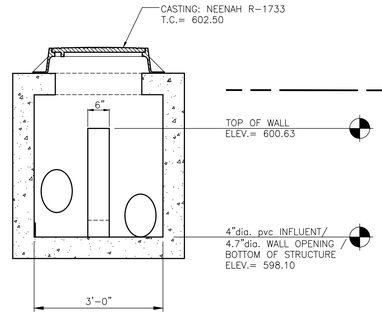
SHEET TITLE:

C400

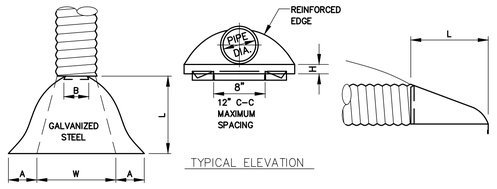


● STRUCTURE g
NEW 3.0'dia. PRECAST CONCRETE STORM STRICTURE
(CASTING: NEENAH R-1733)
WITH 6"wide WEIR WALL ELEV.= 600.25
AND (1) *.*"dia. OPENING INV. ELEV.= 598.10
T.C.= 602.50
INV. IN NW 4"pvc (PERFORATED)= 598.10
INV. IN N 12"hp= 598.67
INV. OUT SE 12"hp= 598.10

STRUCTURE g (PLAN VIEW)
SCALE: no scale



STRUCTURE g (SECTION VIEW)
SCALE: no scale



TYPICAL ELEVATION

TYPICAL CROSS SECTION
PIPE OR PIPE ARCH

TYPICAL PLAN

PIPE DIA. IN INCHES	METAL THICKNESS IN INCHES	DIMENSIONS IN INCHES					APPROX. SLOPE	BODY
		A ± 1"	B (MAX.)	H ± 1"	L ±1 1/2"	W ± 2"		
12	.064	6	6	6	21	24	2 1/2'	1 PC.
15	.064	7	8	6	26	30	2 1/2'	1 PC.
18	.064	8	10	6	31	36	2 1/2'	1 PC.
21	.064	9	12	6	36	42	2 1/2'	1 PC.
24	.064	10	13	6	41	48	2 1/2'	1 PC.
30	.079	12	16	8	51	60	2 1/2'	1 PC.
36	.079	14	19	9	60	72	2 1/2'	2 PC.
42	.109	16	22	11	69	84	2 1/2'	2 PC.

TYPICAL METAL END SECTION DETAILS
NO SCALE

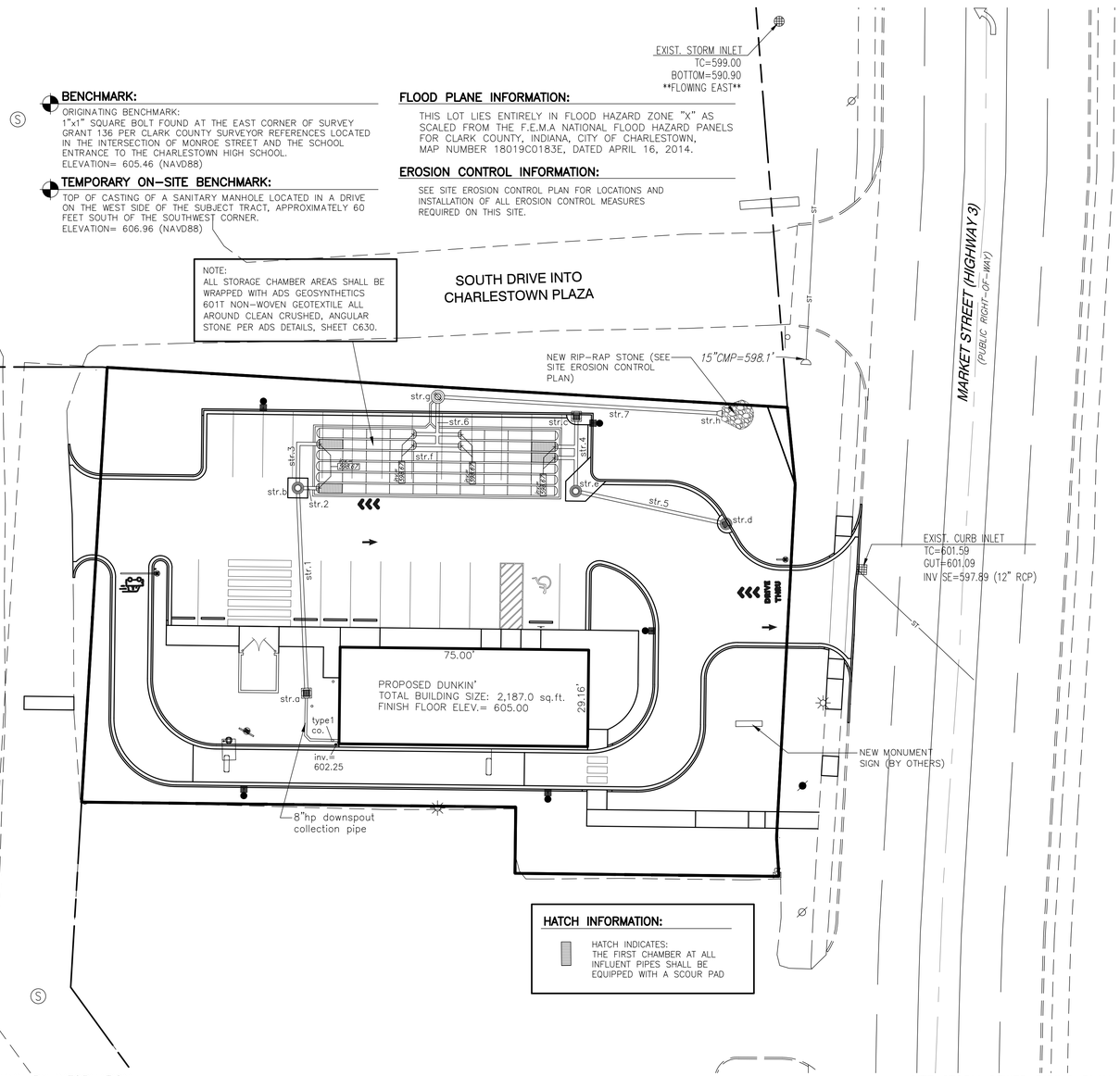
BENCHMARK:
ORIGINATING BENCHMARK:
1"x1" SQUARE BOLT FOUND AT THE EAST CORNER OF SURVEY GRANT 136 PER CLARK COUNTY SURVEYOR REFERENCES LOCATED IN THE INTERSECTION OF MONROE STREET AND THE SCHOOL ENTRANCE TO THE CHARLESTOWN HIGH SCHOOL.
ELEVATION= 605.46 (NAVD88)

TEMPORARY ON-SITE BENCHMARK:
TOP OF CASTING OF A SANITARY MANHOLE LOCATED IN A DRIVE ON THE WEST SIDE OF THE SUBJECT TRACT, APPROXIMATELY 60 FEET SOUTH OF THE SOUTHWEST CORNER.
ELEVATION= 606.96 (NAVD88)

FLOOD PLANE INFORMATION:
THIS LOT LIES ENTIRELY IN FLOOD HAZARD ZONE "X" AS SCALED FROM THE F.E.M.A NATIONAL FLOOD HAZARD PANELS FOR CLARK COUNTY, INDIANA, CITY OF CHARLESTOWN, MAP NUMBER 18019C0183E, DATED APRIL 16, 2014.

EROSION CONTROL INFORMATION:
SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND INSTALLATION OF ALL EROSION CONTROL MEASURES REQUIRED ON THIS SITE.

NOTE:
ALL STORAGE CHAMBER AREAS SHALL BE WRAPPED WITH ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN CRUSHED, ANGULAR STONE PER ADS DETAILS, SHEET C630.



HATCH INFORMATION:
HATCH INDICATES:
THE FIRST CHAMBER AT ALL INFLUENT PIPES SHALL BE EQUIPPED WITH A SCOUR PAD

SITE STORM SEWER PIPING PLAN
SCALE: 1"= 20.0'

STORM DRAINAGE AND GRADING NOTES
1. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
3. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
4. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OF CENTERLINE OF STURCTURE.
5. GRADES SHOWN ARE FINISHED GRADES. FOR BUILDING SUBGRADE ELEVATIONS REFER TO ARCHITECTURAL PLANS.
6. ALL DIMENSIONS OR COORDINATES SHOWN TO BUILDING ARE TO OUTSIDE
7. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER
8. THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE
9. ALL FILL AREAS TO BE COMPACTED CLAY ROLLED IN WITH A SHEEPS FOOT ROLLER IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR. VERIFICATION OF THE COMPACTION SHALL BE DONE BY AN INDEPENDENT SOILS TESTING COMPANY AND ALL TEST RESULTS SUBMITTED TO THE ENGINEER.

SITE INFRASTRUCTURE SUMMARY INFORMATION:

INLET/MANHOLE STRUCTURES

● NEW STRUCTURE a
NEW 24"sq. PRECAST CONCRETE STORM INLET
(CASTING: NEENAH R-2560-E1 WITH NEENAH R-1733 FRAME)
T.C.= 604.60
INV. IN S 8"hp pipe= 602.00
INV. OUT N 12"hp pipe= 601.50

● NEW STRUCTURE b
NEW 30"dia. PRECAST CONCRETE STORM MANHOLE
(CASTING: NEENAH R-1733)
T.C.= 605.15
INV. IN S 12"hp pipe= 601.30
INV. OUT E 12"hp pipe= 598.70
INV. OUT N 12"hp pipe= 598.70

● NEW STRUCTURE c
NEW 24"sq. PRECAST CONCRETE STORM INLET
(CASTING: NEENAH R-3234-B1)
T.C.= 601.92
INV. OUT S 12"hp pipe= 598.67

● NEW STRUCTURE d
NEW 30"dia. PRECAST CONCRETE STORM INLET
(CASTING: NEENAH R-3234-B1)
T.C.= 602.20
INV. OUT W 12"hp pipe= 599.45

● NEW STRUCTURE e
NEW 30"dia. PRECAST CONCRETE STORM MANHOLE
(CASTING: NEENAH R-1733)
T.C.= 603.00
INV. IN E 12"hp pipe= 599.30
INV. OUT N 12"hp pipe= 598.67

● STRUCTURE No.f
(56) NEW "SC-310" 'STORMTECH' STORAGE CHAMBERS ARRANGED PER PLAN
(2) INV. IN W 12"hp INFLUENT PIPES INV.= 598.67
(2) INV. IN E 12"hp INFLUENT PIPES INV.= 598.67
(4) INV. OUT E AND W 12"hp EFFLUENT PIPES INV.= 598.67
BOTTOM OF TANK / TOP OF 6" STONE BASE= 598.60
BOTTOM 6" STONE / 4"pvc (PERFORATED) PIPE= 598.10

● STRUCTURE g
NEW 3.0'dia. PRECAST CONCRETE STORM STRICTURE
(CASTING: NEENAH R-1733)
WITH 6"wide WEIR WALL ELEV.= 600.63
AND (1) 4.7"dia. OPENING INV. ELEV.= 598.10
T.C.= 602.50
INV. IN NW 4"pvc (PERFORATED)= 598.10
INV. IN N 12"hp= 598.67
INV. OUT SE 12"hp= 598.10
(SEE DETAILS, THIS PAGE)

● NEW STRUCTURE h
NEW METAL END SECTION
INV. OUT E 12"hp pipe= 598.10

PIPE STRUCTURES:

● NEW STRUCTURE 1
62.0 L.F. OF NEW 12"hp PIPE AT 0.323% SLOPE

● NEW STRUCTURE 2
6.3 L.F. OF NEW 12"hp PIPE AT 0.476% SLOPE

● NEW STRUCTURE 3
19.8 L.F. OF NEW 12"hp PIPE AT 0.152% SLOPE

● NEW STRUCTURE 4
35.6 L.F. OF NEW 12"hp PIPE AT 0.000% SLOPE
(2) INV. 12"hp IN (EAST) STORAGE CHAMBERS (SEE ABOVE FOR INVERTS)

● NEW STRUCTURE 5
46.4 L.F. OF NEW 12"hp PIPE AT 0.323% SLOPE

● NEW STRUCTURE 6
43.20 L.F. OF NEW 12"hp AT 0.000% SLOPE WITH (4) 12"hp OUT (EAST AND WEST) OF STORAGE CHAMBERS (SEE ABOVE FOR INVERTS)

● NEW STRUCTURE 7
84.4 L.F. OF NEW 12"hp PIPE AT 0.000% SLOPE

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

UTILITY DISCLAIMER
EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE HEREUNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.

N

REVISION
09/24/2025 revised entry drive, front grading, and sidewalk to public sidewalk
10/10/2025 revised per INDOT comments
12/03/2025 revised stormwater per INDOT comments

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BAXTER ENGINEERING LLC
570 Tracy Road, Suite 610
New Whiteland, IN 46184
Office: 317-535-3579
Cell: 317-509-4142
BaxterEngineeringllc@gmail.com

TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER
Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Storm Sewer Piping Plan

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: 1"= 20.0'	

CAD FILE:
G:\25002\c410 site storm sewer piping plan.dwg

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SHEET TITLE:
C410

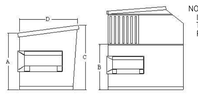
Standard Features

Heavy duty 7 GA fork sleeves	Debris shedding fork sleeve top gussets
7 GA fork entry guides	7 GA fork sleeve backup plates with integral extended bumpers
3" x 4" full length bottom reinforcements	12 GA side walls
Rugged and light plastic lids	1-1/2" PVC drain plug
Rust resistant primer inside and out	Two coats high gloss enamel finish

Options

10 GA side walls
7 GA floor
Casters: 2 rigid, 2 swivel, for two through four cubic yard containers

Dimensions



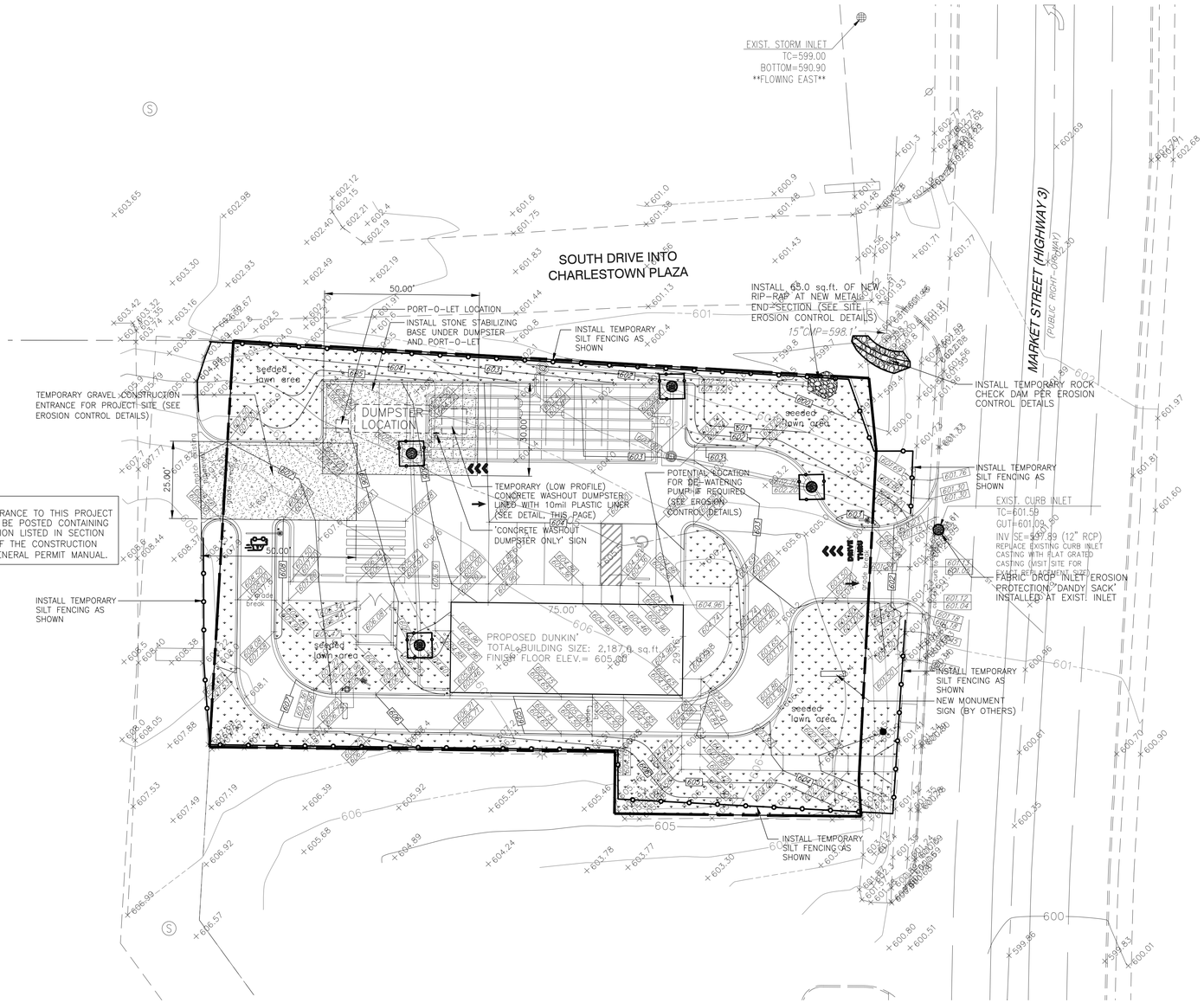
NOTE:
INTERIOR OF DUMPSTER TO BE LINED WITH 10mil. PLASTIC LINER.

Model	FL2	FL3	FL4	FL6-LP	FL6	FL6-SL	FL8-LP	FL8	FL8-SL	FL10	FL10-SL
Capacity cu yds	2	3	4	6	6	6	8	8	8	10	10
(A) Loading height	39	48	51	37	63	51	51	72	51	82	51
(B) Side loading height	-	-	-	-	31	-	-	44	-	45	-
(C) Interior height	41	51	60	45	64	60	59	76	72	80	80
(D) Interior depth	36	42	53	96	66	72	96	72	80	75	88
Interior width	72	72	72	72	72	72	72	72	72	72	72
Lid size (2 each)	36x41	36x47	36x58	36x58	36x58	36x58	36x58	36x58	36x58	36x58	36x58
Side door W x H	-	-	-	30x30*	30x30	-	30x30*	30x30	-	30x30	-

All dimensions are in inches

* Available with two side doors or two 36x47 rear lids
-LP = low profile
-SL = slant

CONCRETE WASHOUT DUMPSTER DETAIL



NOTE:
AT THE SITE ENTRANCE TO THIS PROJECT A NOTICE SHALL BE POSTED CONTAINING ALL DOCUMENTATION LISTED IN SECTION 3.3 (a)(13)(A) OF THE CONSTRUCTION STORMWATER/ GENERAL PERMIT MANUAL.

SEEDING INFO:
1. ALL DISTURBED AREAS SHALL BE PERMINATELY SEEDED PER EROSION CONTROL DETAILS.
(AT NO POINT DURING CONSTRUCTION SHALL ANY PART OF THE SITE REMAIN UNDISTURBED FOR MORE THAN TWO MONTHS THEREFORE NO TEMPORARY SEEDING SHALL BE REQUIRED)

NOTE:
NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER PERMIT.

STORM SEWER PIPING INFORMATION:
SEE SHEET No.C400 FOR ALL INFORMATION CONCERNING THE STORM SEWER INLETS, MANHOLES, AND PIPING.

BENCHMARK:
ORIGINATING BENCHMARK:
1"x1" SQUARE BOLT FOUND AT THE EAST CORNER OF SURVEY GRANT 136 PER CLARK COUNTY SURVEYOR REFERENCES LOCATED IN THE INTERSECTION OF MONROE STREET AND THE SCHOOL ENTRANCE TO THE CHARLESTOWN HIGH SCHOOL.
ELEVATION= 605.46 (NAVD88)

TEMPORARY ON-SITE BENCHMARK:
TOP OF CASTING OF A SANITARY MANHOLE LOCATED IN A DRIVE ON THE WEST SIDE OF THE SUBJECT TRACT, APPROXIMATELY 60 FEET SOUTH OF THE SOUTHWEST CORNER.
ELEVATION= 606.96 (NAVD88)

FLOOD PLANE INFORMATION:
THIS LOT LIES ENTIRELY IN FLOOD HAZARD ZONE "X" AS SCALED FROM THE F.E.M.A NATIONAL FLOOD HAZARD PANELS FOR CLARK COUNTY, INDIANA, CITY OF CHARLESTOWN, MAP NUMBER 18019C0183E, DATED APRIL 16, 2014.

EROSION CONTROL LEGEND:

TEMPORARY SILT FENCING (SEE EROSION CONTROL DETAILS PAGE)

FABRIC DROP INLET EROSION PROTECTION – ONCE PAVEMENT IS PLACED CHANGE TO 'DANDY SACK' PROTECTION (SEE EROSION CONTROL DETAILS PAGE)

FABRIC DROP INLET EROSION PROTECTION – 'DANDY SACK' (SEE EROSION CONTROL DETAILS PAGE)

HATCH INDICATES:
AREAS OF LAWN (SEEDED), LANDSCAPE STONE, AND LANDSCAPING ON THIS PROJECT (SEE LANDSCAPING PLAN)

SITE EROSION CONTROL PLAN
SCALE: 1"= 20.0'

Indiana811 Know what's below. Call before you dig.

UTILITY DISCLAIMER
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N

REVISION

09/24/2025	revised entry drive, front grading, and sidewalk to public sidewalk
10/10/2025	revised per INDOT comments
12/03/2025	revised stormwater per INDOT comments

VERSATILE CONSTRUCTION GROUP, LLC.
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BaxterEngineeringllc@gmail.com

TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER

Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Erosion Control Plan

Job No.	Date Stamped
25002	05/02/2025

Drawn By	Checked By	Scale:
caw	tab	1"= 20.0'

CAD FILE:
G:\25002\c500 site erosion control plan.dwg

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SHEET TITLE:

C500

EROSION CONTROL RESPONSIBILITY:

INSTALLATION RESPONSIBILITY:

Versatile Construction Group, LLC
Project Supervisor: Sam Allen
570 E. Tracy Road, Suite 610
New Whiteland, Indiana
46184
Phone: (317) 535-3579

CURRENT LAND OWNER:

om Charlestown realty llc
200 S. Frontage Road, Suite 310
Buff Ridge, IL 60527

PROJECT ADDRESS:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

EROSION CONTROL CONTRACTOR RESPONSIBILITY:

RESPONSIBILITIES OF CONTRACTOR REGARDING THE CONSTRUCTION GENERAL PERMIT: The Contractor shall manage the discharge of storm water from the site in accordance with the NPDES Construction General Permit for Construction Activities conditions and the following provisions of this section of the specifications. The Contractor shall be responsible for conducting the storm water management practices in accordance with the permit. The Contractor shall be responsible for providing qualified inspectors to conduct the inspections required by the SWPPP. The Contractor shall be responsible for any enforcement action taken or imposed by federal, state, or local agencies, including the cost of fines, construction delays, and remedial actions resulting from the Contractor's failure to comply with the permit provisions. It shall be the responsibility of the Contractor to make any changes to the SWPPP necessary when the Contractor or any of his subcontractors elects to use borrow or fill or material storage sites, either contiguous to or remote from the construction site, when such sites are used solely for this construction site. Such sites are considered to be part of the construction site covered by the permit and this SWPPP. Off-site borrow, fill, or material storage sites which are used for multiple construction projects are not subject to this requirement, unless specifically required by state or local jurisdictional entity regulations. The Contractor should consider this requirement in negotiating with earthwork subcontractors, since the choice of an off-site borrow, fill, or material storage site may impact their duty to implement, make changes to, and perform inspections required by the SWPPP for the site.

SWPPP LEDGER: Two (2) copies of the SWPPP Ledger, in three (3) ring binders shall be provided by the Operator's Engineer. One (1) copy shall be provided to the Construction Site Superintendent and one (1) copy shall be provided to the Operator's Project Manager.

1. Table of Contents
2. A copy of the Stormwater Polution Prevention Plan, Details, and Notes. (Sheets C500, C510, C520, and C530)
3. Construction Site Notice (Form A-1)
4. Modification Report (Form C-1)
5. Reportable Quantity Release Form (Form E-1)
6. Construction Site Inspection and Maintenance Log

The Operator's Project Manager must review and evaluate for compliance the SWPPP Ledger at each Project Review.

STORM WATER POLLUTION PREVENTION PROGRAM LOCATION REQUIREMENTS: The SWPPP Ledger is meant to be a working document that shall be maintained at the site of the Construction Activities at all times throughout the project, shall be readily available upon request by the Operator's personnel or IDEM or any other agency with regulatory authority over storm water issues, and shall be kept on-site until the site complies with the Final Stabilization section of this document. A sign or other notice must be posted near the main entrance of the construction site which contains the location of the SWPPP and the name and phone number of a contact person responsible for scheduling SWPPP viewing times, and any other State Of Indiana specific requirements. The Notice of Coverage (NOC) or other form notifying the applicant that coverage under the applicable permit has been obtained must also be posted, once received.

SWPPP MODIFICATIONS: The inspection report should also identify if any revisions to the SWPPP are warranted due to unexpected conditions. The SWPPP is meant to be a dynamic working guide that is to be kept current and amended whenever:

1. There is a change in design, construction, operation, or maintenance at the construction site that has or could have a significant effect on the discharge of pollutants to the waters of the United States that has not been previously addressed in the SWPPP. In addition to modifying the SWPPP, the site map may also require an amendment.
2. Inspections or investigations by site staff, or by local, state or federal officials, determine that the discharges the SWPPP is ineffective in eliminating or significantly minimizing pollutants in storm water discharges from the construction site.
3. Based on the results of an inspection, it must be modified as necessary to include additional or modified BMPs designed to correct problems identified. Revisions to the SWPPP must be completed within seven (7) calendar days following the inspection.
4. There is a release containing a hazardous substance or oil in an amount equal or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302 occurs during a 24 hour period. Revisions to the SWPPP must be completed within seven (7) calendar days of knowledge of the release.
5. There is an off-site borrow or fill area that is used solely for the Dunkin' Donuts construction project. The modification will include, at a minimum, a revision to the SWPPP and site maps and may impact the Contractor's duty to implement and conduct inspections.

Any such changes to the SWPPP must be made in writing on the Requested Changes to the SWPPP (Form C-1) within 7 days of the date such modification or amendment is made. The Contractor's failure to modify the SWPPP to include off-site borrow or fill areas used solely for the project or to monitor or report deficiencies to the Operator will result in the Contractor being liable for fines and construction delays resulting from any federal, state, or local agency enforcement action.

Report to IDEM within 24 hours any noncompliance with the SWPPP that will endanger public health or the environment. Follow up with a written report within 5 days of the noncompliance event. The following events require 24 hour reporting: a) any unanticipated bypass which exceeds any effluent limitation in the permit, b) any upset which exceeds any effluent limitation in the permit, and c) a violation of a maximum daily discharge limitation for any of the pollutants listed by the EPA in the permit to be reported within 24 hours. The written submission must contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the non-compliance.

Record-Keeping Requirements

The Contractor shall keep the following records related to construction activities at the site:

- Dates when major grading activities occur and the areas which were graded
- Dates and details concerning the installation of structural controls
- Dates when construction activities cease in an area
- Dates when an areas is stabilized, either temporarily or permanently
- Dates of rainfall and the amount of rainfall
- Dates and descriptions of the character and amount of any spills of hazardous materials
- Records of reports filed with regulatory agencies if reportable quantities of hazardous materials spilled

CONTROL OF NON-STORM WATER DISCHARGES

Certain types of discharges are allowable under the IDEM General Permit for Construction Activity, and it is the intent of this SWPPP to allow such discharges. These types of discharges will be allowed under the conditions that no pollutants will be allowed to come in contact with the water prior to or after its discharge. The control measures which have been outlined previously in this SWPPP will be strictly followed to ensure that no contamination of these non-storm water discharges takes place. Furthermore, Indiana may prohibit any non-storm water discharges, allow a limited number of types of non-storm water discharges and/or will require coverage for non-storm water discharges under a separate permit. The following non-storm water discharges are allowed by the IDEM and may occur at the job site:
Possible non-storm water discharges that must be diverted to the sanitary system: discharges from fire fighting activities, fire hydrant flushing, potable water sources such as water line flushings, routine exterior building wash-down (with detergents presents). Contractor shall neutralize any super-chlorinated water from water distribution pipes before releasing it into the environment.

Possible non-storm water discharges where detergents are not used should be diverted to the storm sewer system: discharges from waters used to wash vehicles or control dust in order to minimize offsite sediment tracking, pavement wash waters where spills or leaks of hazardous materials have not occurred or detergents have not been used, irrigation drainage from watering vegetation ,springs or other uncontaminated groundwater, including dewatering groundwater infiltration.

SPILL RESPONSE FOR CONTRACTOR

Spill Prevention and Response Procedures

The Contractor will train all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job site superintendent to properly train all personnel in spill prevention and clean up procedures.

A. In order to minimize the potential for a spill of hazardous materials to come into contact with storm water, the following steps will be implemented:
   1. All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, cleaning solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) will be stored in a secure location, with their lids on, preferably under cover, when not in use.
   2. The minimum practical quantity of all such materials will be kept on the job site.
   3. A spill control and containment kit (containing, for example, absorbent materials, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.
   4. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.

B. In the event of a spill, the following procedures should be followed
   1. All spills will be cleaned up immediately after discovery.
   2. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substances.
   3. The project manager and the Engineer of Record will be notified immediately.
      Spills of toxic or hazardous materials will be reported to the appropriate federal, state, and/or local government agency, regardless of the size of the spill. Spills of amounts that exceed Reportable Quantities of certain substances specifically mentioned in federal regulations (40 CFR 110, 40 CFR 117, and 40 CFR 302) must be immediately reported to the EPA National Response Center, telephone 1-800-424-8802, IDEM, telephone (317) 233-7745, and the Charlestown City Hall 1-812-256-3422, and the Charlestown Fire Department 1-812-256-6202.
   4. If the spill exceeds a Reportable Quantity, the SWPPP must be modified within seven (7) calendar days of knowledge of the discharge to provide a description of the release, the circumstances leading to the release, and the date of the release. The plans must identify measures to prevent the recurrence of such releases and to respond to such releases. Form E-1 must be completed in accordance with this

C. The job site superintendent will be the spill prevention and response coordinator. He will designate the individuals who will receive spill prevention and response training. These individuals will each become responsible for a particular phase of prevention and response. The names of these personnel will be posted in the material storage area and in the

Releases of hazardous substances or oil in excess of reportable quantities (as established under 40 CFR 110, 40 CFR 117 or 40 CFR 302) must be reported. Form E-1 provides further details on the notification and reporting process.

INSPECTIONS AND MAINTENANCE
Inspections and maintenance shall comply with the INSPECTION AND MAINTENANE DETAILS located on Sheet C530 of these plans. Inspections must be conducted by a "Qualified" Inspector. "Qualified"is defined as a person knowledgeable in the principles and practices of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction

activity.

INSPECTION AND MAINTENANCE PROCEDURES IN ADDITION TO DETAILS

The following inspection and maintenance practices will be used to maintain erosion and sediment controls and stabilization measures in addition to the INSPECTION AND MAINTENANCE DETAILS:

1. All control measures will be inspected as outlined in the INSPECTION GUIDELINES TABLE.
2. All measures will be maintained in good working order; if repairs or other measures are found to be necessary, they will be initiated within 24 hours of report.
3. Temporary and permanent seeding and all other stabilization measures will be inspected for bare spots, washouts, and healthy growth.
4. Gravel shall be added to transit paths as needed to prevent vehicle tracking of sediments.
5. The paved streets adjacent to the site entrance will be inspected daily and swept as necessary to remove any excess mud, dirt, or rock tracked from the site.
6. The job site superintendent will be responsible for selecting and training the individuals who will be responsible for these inspections, maintenance and repair activities,
7. Personnel selected for the inspection and maintenance responsibilities shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls that are used onsite in good working order.
8. Disturbed areas and materials storage areas will be inspected for evidence of or potential for pollutants entering stormwater systems.

EROSION CONTROL INSTALLATION AND CONSTRUCTION SEQUENCING

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows:

A. Conduct an Erosion and Sediment control pre-construction meeting with the City of Charlestown.
B. Install temporary site construction entrance.
C. Install silt fence perimeter control and silt inlet protection.
D. Install dumpster protection and concrete wash out stone pad.
E. Commence site grading and building pad construction.
F. Any disturbed areas of the site where construction activity has ceased, stabilization must be initiated by the end of the seventh day the area is left idle and stabilization shall be completed within 14 days after initiation per the requirements of the Construction stormwater general permit.
G. Install all storm sewers pipes and structures.
H. Install protection at the locations of all inlets and ends of exposed storm sewer pipes.
I. Begin construction of building.
J. Finalize pavement sub-grade preparation.
K. Install base material as required for asphaltic pavement.
L. Construct all curbs and sidewalks.
M. Construct asphaltic parking pavement.
N. Change temporary inlet protection to "Dandy Sacks".
O. Carry out final seeding and planting.
P. Remove silt fencing and "Dandy Sacks" only after all paving is complete and exposed surfaces are stabilized.

EROSION CONTROL INSTALLATION DETAILS

TREE PRESERVATION

TREE PROTECTION

Protect trees from equipment damage. (Wounds provide entry for insects and disease and reduce transport of sap.)

If trees are damaged, repair immediately. (Repair of wounded areas allows trees to heal quickly, thus reducing insect and disease problems.)

MATERIALS

1. Fencing (orange safety fencing for increased visibility), snow fence and support posts.
2. Signage.
3. Wood mulch, chips, etc.
4. Specialized equipment (brush cutter, rotary axe, hand tools).

APPLICATION

1. Install fencing around a specimen tree(s) as far out as its crown to keep equipment off the rooting area.
2. If a fence cannot be erected, cushion the rooting area with six inches of wood chips, wood, or brick paths.
3. Protect trees from equipment damage by creating some type of barrier, fencing them off, or wrapping individual trees with snow fencing.
4. Prune low-hanging limbs that could otherwise be broken off by equipment.

TEMPORARY CONSTRUCTION ENTRANCE

DIMENSION

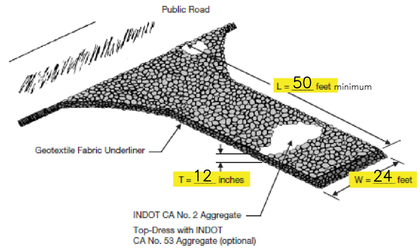
1. Width – 12 feet minimum or full width of entrance/exit drive, whichever is greater.
2. Length – 50 feet minimum or full length of drive, whichever is greater.
3. Thickness – six inches minimum.

MATERIALS

1. One to two and one-half inch diameter washed aggregate [INDOT CA No. 2.
2. One-half to one and one-half inch washed aggregate [INDOT CA No. 53 optional, used primarily where the purpose of the pad is to keep soil from adhering to vehicle tires].
3. Geotextile fabric underlayment (used as a separation layer to prevent intermixing of aggregate and the underlying soil material and to provide greater bearing strength when encountering wet conditions or soils with a seasonal high water table limitation).

INSTALLATION

1. Remove all vegetation and other objectionable material from the foundation area.
2. Grade the foundation and crown for positive drainage.
3. Install a culvert pipe under the pad if needed to maintain proper public road drainage.
4. If wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
5. Place aggregate (INDOT CA No. 2) to the dimensions and grade shown in the construction plans, leaving the surface smooth and sloped for drainage.
6. Top-dress the drive with washed aggregate (INDOT CA No.53).
7. Where possible, divert all storm water runoff and drainage from the temporary construction ingress/egress pad to a sediment trap or basin.



L = Ingress/Egress Pad Length
W = Ingress/Egress Pad Width
T = Aggregate Thickness

TOPSOIL SALVAGE AND UTILIZATION

SOIL STOCKPILE AREA

1. Free of stumps, rock, and construction debris.
2. Stockpile covered with vegetation or a tarp.
3. Surrounded by a sediment barrier or sediment filter.

APPLICATION

1. Prior to stripping topsoil, install any site-specific down slope measures needed to control storm water runoff and sedimentation.
2. Remove soil material no deeper than the surface soil (e.g., A or Ap horizon).
3. Stockpiled soil should be temporarily seeded or covered with a tarp and/or surrounded by a sediment control measure.
4. Prior to applying topsoil, grade the subsoil and roughen the top three to four inches by disking. (This helps the topsoil bond with the subsoil. If the topsoil and existing soil surface are not properly bonded, water will not infiltrate evenly and it will be difficult to establish vegetation.)
5. Apply topsoil evenly to a depth of at least four inches, then compact slightly to improve contact with the subsoil.
   a. Depths of four inches or greater are recommended if the underlying material is bedrock, fine-textured clayey soils, loose sand, rock fragments, aggregate, or other unsuitable soil material.
   b. Do not apply topsoil when the site is wet, muddy, or frozen because it makes spreading difficult, inhibits bonding, can cause compaction problems, and forms a cloddy seedbed. Whenever possible avoid applying topsoil to the existing soil surface if the two layers have contrasting textures. Clayey topsoil over sandy subsoil is a particularly poor combination, as water creeps along the junction between the two soil layers and may cause the topsoil to slough.
   c. Applying topsoil on slopes with a ratio of 2:1 or greater may result in soil slippage and may require additional measures to provide good bonding of the soil material.
6. After spreading the topsoil, grade and stabilize the site.

EROSION CONTROL INSTALLATION DETAILS (CONT.)

TEMPORARY SEEDING

MATERIALS

1. Soil Amendments – Select materials and rates as determined by a soil test (contact your county soil and water conservation district or cooperative extension office for assistance and soil information, including available soil testing services) or 400 to 600 pounds of 12-0-12 analysis fertilizer, or equivalent. Consider the use of reduced phosphorus application where soil tests indicate adequate phosphorous levels in the soil profile.
2. Seed – Select appropriate plant species seed or seed mixtures on the basis of quick germination, growth, and time of year to be seeded (see Table 1).
3. Mulch –
   a. Straw, hay, wood fiber, etc. (to protect seedbed, retain moisture, and encourage plant growth).
   b. Anchored to prevent removal by wind or water or covered with manufactured erosion control blankets.

Table 1. Temporary Seeding Specifications

Seed Species[1]	Rate per Acre	Planting Depth	Optimum Dates[2]
Wheat or Rye	150 lbs.	1 to 1½ inches	Sept. 15 – Oct. 30
Spring Oats	100 lbs.	1 inch	March 1 – April 15
Annual Ryegrass	40 lbs.	¼ inch	March 1 – May 1 Aug. 1 – Sept. 1
German Millet	40 lbs.	1 to 2 inches	May 1 – June 1
Sudangrass	35 lbs.	1 to 2 inches	May 1 – July 30
Buckwheat	60 lbs.	1 to 2 inches	April 15 – June 1
Corn (broadcast)	300 lbs.	1 to 2 inches	May 11 – Aug. 10
Sorghum	35 lbs.	1 to 2 inches	May 1 – July 15

[1] Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (see Permanent Seeding Sheet C510-C520.
[2] Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

Notes:
Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored.
A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

SEEDBED PREPARATION

1. Test soil to determine pH and nutrient levels.
2. Apply soil amendments as recommended by the soil test. If testing is not done, apply 400 to 600 pounds per acre of 12-0-12 analysis fertilizer, or equivalent.
3. Work the soil amendments into the upper two to four inches of the soil with a disk or rake operated across the slope.

SEEDING

1. Select a seed species or an appropriate seed mixture and application rate from Table 1.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover seed to the depth shown in Table 1.

Notes:
1. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations.
2. Daily seeding when the soil is moist is usually most effective.
3. If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.

3. Apply mulch (Mulching Sheet C520) and anchor it in place.

TEMPORARY SEEDING DATES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WHEAT OR RYE												
OATS												
ANNU. RYEGRASS												

IRRIGATION NEEDED THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREA USE MULCH

PERMANENT SEEDING

MATERIALS

1. Soil Amendments – (contact your county soil and water conservation district or cooperative extension office for assistance and soil information, including available soil testing services) or 400 to 600 pounds of 12-0-12 analysis fertilizer, or equivalent. Consider the use of reduced phosphorus application where soil tests indicate adequate phosphorous levels in the soil profile.
2. Seed – Select appropriate plant species seed or seed mixtures on the basis of quick germination, growth, and time of year to be seeded (see Table 1).
3. Mulch –
   a. Straw, hay, wood fiber, etc. (to protect seedbed, retain moisture, and encourage plant growth).
   b. Anchored to prevent removal by wind or water or covered with manufactured erosion control blankets.

SITE PREPARATION

1. Grade the site to achieve positive drainage.
2. Add topsoil (see Topsoil Salvage and Utilization Sheet C510) or mulch (see Mulching Sheet C520) to achieve needed depth for establishment of vegetation. (Compost material may be added to improve soil moisture holding capacity, soil friability, and nutrient availability.)

SEEDBED PREPARATION

1. Test soil to determine pH and nutrient levels.
2. Apply soil amendments as recommended by the soil test and work into the upper two to four inches of soil. If testing is not done, apply 400 to 600 pounds per acre of 12-0-12 analysis fertilizer, or equivalent.
3. Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil.
3. Mulch all seeded areas (see Mulching Sheet C520)

SEEDING

Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. Seeding outside or beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover is not achieved. Reseeding or overseeding can be easily accomplished if the soil surface remains well protected with mulch.

1. Select a seeding mixture and rate from Table 1. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one-fourth to one-half inch. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. (If seeding is done with a hydroseeder fertilizer and mulch can be applied with the seed in a slurry mixture.) and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and conveyance channels (see Erosion Control Blanket Sheet 520).

REVISION
10/10/2025 revised per INDOT comments

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Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Erosion Control Details

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale:	

CAD FILE:
G:\25002\c510 site erosion control details.dwg

THIS DRAWING IS THE PROPERTY OF VERSITILE CONSTRUCTION GROUP, LLC. ANY ALTERATION TO THIS DRAWING IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT AND UNDER THE DIRECTION OF THE PROFESSIONAL LICENSOR WHOSE SEAL IS AFFIXED TO THIS DRAWING.

SHEET TITLE:

C510

EROSION CONTROL INSTALLATION DETAILS (CONT.)

PERMANENT SEEDING (CONT.)

Table 1. Permanent Seeding Recommendations
This table provides several seed mixture options. Additional seed mixtures are available commercially. When selecting a mixture, consider intended land use and site conditions, including soil properties (e.g., soil pH and drainage), slope aspect, and the tolerance of each species to shade and drought.

Open Low-Maintenance Areas (remaining idle more than six months)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white clover[1]	70 lbs. 2 lbs.	5.6 to 7.0
2. Perennial ryegrass - tall fescue[2]	70 lbs. 50 lbs.	5.6 to 7.0
3. Tall fescue[2] - white clover[1]	70 lbs. 2 lbs.	5.5 to 7.5

Steep Banks and Cuts, Low-Maintenance Areas (not mowed)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Smooth brome grass - red clover[1]	35 lbs. 20 lbs.	5.5 to 7.0
2. Tall fescue[2] - white clover[1]	50 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue[2] - red clover[1]	50 lbs. 20 lbs.	5.5 to 7.5
4. Orchard grass - red clover[1] - white clover[1]	30 lbs. 20 lbs. 2 lbs.	5.6 to 7.0
5. Crownvetch[1] - tall fescue[2]	12 lbs. 30 lbs.	5.6 to 7.0

Lawns and High-Maintenance Areas

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Bluegrass	140 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf type)	60 lbs. 90 lbs.	5.6 to 7.0
3. Tall fescue (turf type)[2] - bluegrass	170 lbs. 30 lbs.	5.6 to 7.5

Channels and Areas of Concentrated Flow

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white[1]	150 lbs. 2 lbs.	5.5 to 7.0
2. Kentucky bluegrass - smooth bromegrass - switchgrass - timothy - perennial ryegrass - white clover[2]	20 lbs. 10 lbs. 3 lbs. 4 lbs. 10 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue[1] - white clover[2]	150 lbs. 2 lbs.	5.5 to 7.5
4. Tall fescue[2] - perennial ryegrass - Kentucky bluegrass	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

Notes:
1. An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:
   (a) spring oats – one-fourth to three-fourths bushel per acre
   (b) wheat – no more than one-half bushel per acre
2. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

PERMANENT SEEDING DATES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Non-irrigated(1)												
Irrigated												
Dormant(2)												

IRRIGATION NEEDED THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREA USE MULCH
(1) LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED
(2) INCREASE SEEDING APPLICATION BY 50%

MULCHING

MATERIALS

Table 1. Mulch Specifications

Material[1]	Rate per Acre	Comments
Straw or hay	2 tons	Should be dry, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (see *Table 2*).
Wood fiber or cellulose	1 ton	Apply with a hydraulic mulch machine and use with tacking agent.

[1] Mulching is not recommended in concentrated flows. Consider erosion control blankets or other stabilization methods.

MULCHING (CONT.)

Table 2. Mulch Anchoring Methods

Anchoring Method[1]	How to Apply
Mulch anchoring tool or farm disk (dull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleats.
Wood hydromulch fibers	Apply according to manufacturer's recommendations.
Synthetic tackifiers, binders, or soil stabilizers	Apply according to manufacturer's recommendations.
Netting (synthetic or biodegradable material)	Install netting immediately after applying mulch. Anchor netting with staples. Edges of netting strips should overlap with each up-slope strip overlapping four to six inches over the adjacent down-slope strip. Best suited to slope applications. In most instances, installation details are site specific, so manufacturer's recommendations should be followed.

[1] All forms of mulch must be anchored to prevent displacement by wind and/or water.

APPLICATION
1. Apply mulch at the recommended rate shown in Table 1.
2. Spread the mulch material uniformly by hand, hayfork, mulch blower, or hydraulic mulch machine. After spreading, no more than 25 percent of the ground should be visible.
3. Anchor straw or hay mulch immediately after application. The mulch can be anchored using one of the methods listed below:
   a. Crimp with a mulch anchoring tool, a weighted farm disk with dull serrated blades set straight, or track cleats of a bulldozer,
   b. Apply hydraulic mulch with short cellulose fibers,
   c. Apply a liquid tackifier, or
   d. Cover with netting secured by staples.

EROSION CONTROL BLANKET

MATERIALS
1. Organic (straw, excelsior, woven paper, coconut fiber, etc.) or synthetic mulch incorporated with a polypropylene, natural fiber or similar netting material (The netting may be biodegradable, photodegradable or permanent.)
2. Six to 12-inch staples, pins, or stakes.

INSTALLATION
1. Select the type and weight of erosion control blanket to fit the site conditions (e.g., slope, channel, flow velocity) per the manufacturer's specifications.
2. Prepare the seedbed, add soil amendments, and permanently seed (see Permanent Seeding Sheet C510, C520) the area immediately following seedbed preparation.
3. Lay erosion control blankets on the seeded area so that they are in continuous contact with the soil with each up-slope or up-stream blanket overlapping the down-slope or down-stream blanket by at least eight inches, or follow manufacturer's recommendations
4. Tuck the uppermost edge of the upper blankets into a check slot (slit trench), backfill with soil and tamp down. In certain applications, the manufacturer may require additional check slots at specific locations down slope from the uppermost edge of the upper blankets.
5. Anchor the blankets in place by driving staples, pins, or stakes through the blanket and into the underlying soil. Follow an anchoring pattern appropriate for the site conditions and as recommended by the manufacturer.

TURF REINFORCEMENT MAT

MATERIALS
1. Anchoring
   Staples, pins, or stakes used to prevent movement or displacement of mat. (Follow manufacturer's recommendations for specific applications.)
2. Turf reinforcement mat (typically consists of a three-dimensional matrix of polypropylene, nylon, or other material).
3. Six to 12-inch staples, pins, or stakes.

INSTALLATION
1. Select a turf reinforcement mat appropriate for the site conditions (e.g., slope, channel, flow velocity) per the manufacturer's specifications.
2. Grade and prepare the soil foundation for mat installation.
3. Install the mat according to the manufacturer's instructions, including burying the edges in check slots or slit trenches.
4. Anchor the mat in place by driving staples, pins, or stakes through the mat and into the underlying soil. Follow an anchoring pattern appropriate for the site conditions and as recommended by the manufacturer.
5. Backfill the mat with topsoil, filling to the top of the mat.
6. Seed the area after the mat has been installed and backfilled with soil.
7. Install erosion control blankets over the seeded turf reinforcement mat to stabilize the surface.

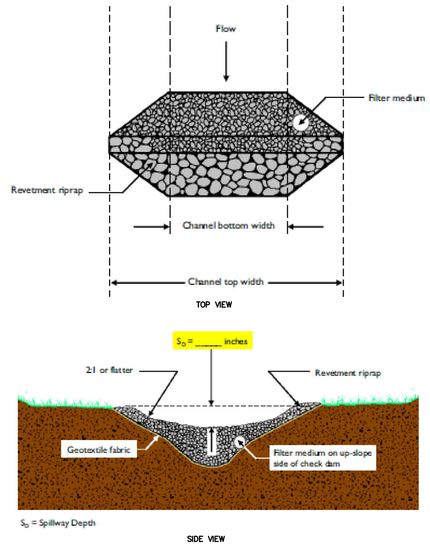
ROCK CHECK DAM

MATERIALS
1. Geotextile fabric (8 ounce or heavier; nonwoven).
2. Indiana Department of Transportation Revetment riprap for dam.
3. INDOT CA No. 5 aggregate for use as filter medium (Aggregate must be well-graded).
   Note: INDOT CA No. 8 aggregate is acceptable if No. 5 aggregate is not available. The use of No. 8 aggregate may result in more frequent overtopping of the structure and will increase the frequency of structure maintenance.

INSTALLATION
1. Lay out the location of the check dam.
2. Excavate a cutoff trench into the channel bottom and ditch banks, extending it a minimum of 18 inches beyond the top of the ditch bank.
3. Install and anchor filter fabric in the channel and cutoff trench.
4. Place riprap in the cutoff trench and channel to the lines and dimensions shown in the construction plans. The center of each dam must be at least nine inches lower than the uppermost points of contact between the riprap dam and channel banks.
5. Extend the riprap at least 18 inches beyond the top of the channel banks to keep overflow water from eroding areas adjacent to the channel banks before it re-enters the channel.

ROCK CHECK DAM (CONT.)

6. Place filter medium (INDOT CA No. 5 aggregate) on the up-slope side of the dam. Place filter medium over the entire face of the dam up to the base of the overflow weir notch.
7. Stabilize the channel above the uppermost dam.
8. Install an erosion-resistant lining in the channel below the lowermost dam. The lining should extend a minimum distance of six feet below the dam.
9. Additional sediment storage can be provided by excavating a small sediment trap on the upstream side of the check dam.



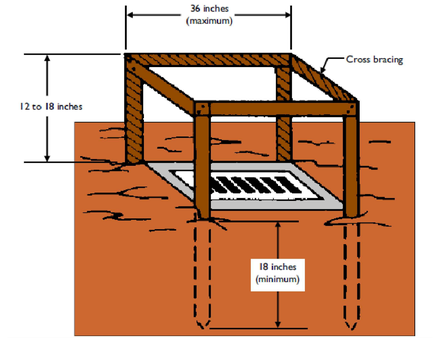
GEOTEXTILE FABRIC DROP INLET PROTECTION

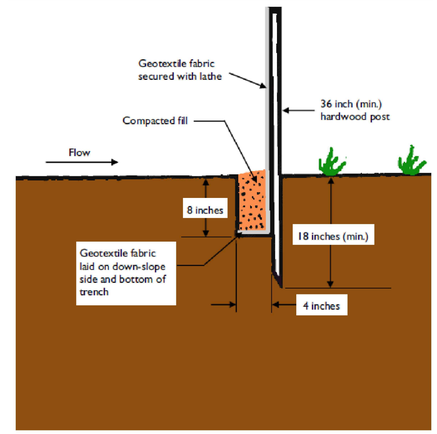
MATERIALS
1. Support posts
2. 2 x 2 inch or 2 x 4 inch hardwood posts.
3. Three feet length, minimum.
4. 1 x 2 inch or 1 x 3 inch hardwood cross bracing lumber.
5. Lathe.
6. Staples or nails.
7. Geotextile fabric

Table 1. Geotextile Fabric Specifications

Physical Property	Woven	Non-Woven
Filtering Efficiency	85%	85%
UV Resistance (Inhibitors and stabilizers to ensure six month minimum life at temperatures of 0° to 120° F)	70%	85%
Tensile Strength at 20% Elongation:		
Standard Strength	30 lbs./linear inch	50 lbs./linear inch
Extra Strength	50 lbs./linear inch	70 lbs./linear inch
Slurry Flow Rate	0.3 gal./min./sq. ft.	4.5 gal./min./sq. ft.
Water Flow Rate	15 gal./min./sq. ft.	220 gal./min./sq. ft.

INSTALLATION
1. Dig an eight-inch deep, four-inch wide trench around the perimeter of the inlet.
2. If using pre-assembled geotextile fabric and posts, drive the posts into the soil, tightly stretching the geotextile fabric between posts as each is driven. (Posts must be placed on the inlet side of the anchor trench with the geotextile fabric on the side of the trench farthest from the inlet.)
   Note: If assembling the geotextile fabric and posts on-site, drive the posts into the soil and then secure the geotextile fabric to the posts by placing a piece of lathe over the fabric and fastening it to the post (stretching the fabric between posts as it is fastened).
3. Use the wrap join method when joining posts (see Silt Fence on sheet C520, C530).
4. Place the bottom 12 inches of geotextile fabric into the eight-inch deep trench, laying the remaining four inches in the bottom of the trench and extending away from the inlet.
5. Backfill the trench with soil material and compact it in place.
6. Brace the posts by nailing braces into each corner post or utilize rigid panels to support fabric.
   Note: In situations where storm water may bypass the structure, either:
   1. Set the top of the geotextile fabric filter at least six inches lower than the ground elevation on the down-slope side of the storm drain inlet,
   2. Build a temporary dike, compacted to six inches higher than the fabric, on the down-slope side of the storm drain inlet, AND/OR





SILT FENCE

MATERIALS
1. Fabric – woven or non-woven geotextile fabric meeting specified minimums outlined in Table 2.
   a. Height – a minimum of 18 inches above ground level (30 inches maximum).
   b. Reinforcement – fabric securely fastened to posts with wood lathe.
2. Support Posts
   a. 2 x 2 inch hardwood posts. Steel fence posts may be substituted for hardwood posts (steel posts should have projections for fastening fabric).
   b. Spacing – Eight feet maximum if fence is supported by wire mesh fencing. Six feet maximum for extra-strength fabric without wire backing.

Table 1. Slope Steepness Restrictions

Percent Slope		Maximum Distance
< 2%	< 50:1	100 feet
2% – 5%	50:1 to 20:1	75 feet
5% – 10%[1]	20:1 to 10:1	50 feet
10% – 20%[1]	10:1 to 5:1	25 feet
> 20%[1]	> 5:1	15 feet

[1] Consider other alternatives.
Note: Multiple rows of silt fence are not recommended on the same slope.

Table 2. Geotextile Fabric Specifications for Silt Fence (minimum)

Physical Property	Woven Geotextile Fabric	Non-Woven Geotextile Fabric
Filtering efficiency	85%	85%
Textile strength at 20% elongation Standard strength Extra strength	30 lbs. per linear inch 50 lbs. per linear inch	50 lbs. per linear inch 70 lbs. per linear inch
Slurry flow rate	0.3 gal./min./square feet	4.5 gal./min./square feet
Water flow rate	15 gal./min./square feet	220 gal./min./square feet
UV resistance	70%	85%
Post spacing	7 feet	5 feet

Note: Silt fences can be purchased commercially.

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TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER
Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Erosion Control Details

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale:	

CAD FILE: G:\25002\c520 site erosion control details.dwg

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SHEET TITLE:
C520

SILT FENCE (CONT.)

INSTALLATION

Prefabricated silt fence (see Exhibits 1, 2, and 3)

1. Lay out the location of the fence so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area. Turn the ends of the fence up slope such that the point of contact between the ground and the bottom of the fence end terminates at a higher elevation than the top of the fence at its lowest point (see Exhibit 1).
2. Excavate an eight–inch deep by four–inch wide trench along the entire length of the fence line (see Exhibit 2). Installation by plowing is also acceptable.
3. Install the silt fence with the filter fabric located on the up–slope side of the excavated trench and the support posts on the down–slope side of the trench.
4. Drive the support posts at least 18 inches into the ground, tightly stretching the fabric between the posts as each is driven into the soil. A minimum of 12 inches of the filter fabric should extend into the trench. (If it is necessary to join the ends of two fences, use the wrap joint method shown in Exhibit 3.)
5. Lay the lower four inches of filter fabric on the bottom of the trench and extend it toward the up–slope side of the trench.
6. Backfill the trench with soil material and compact it in place.

Note: If the silt fence is being constructed on–site, attach the filter fabric to the support posts (refer to Tables 1 and 2 for spacing and geotextile specifications) and attach wooden lathe to secure the fabric to the posts. Allow for at least 12 inches of fabric below ground level. Complete the silt fence installation, following steps 1 through 6 above.

Exhibit 1

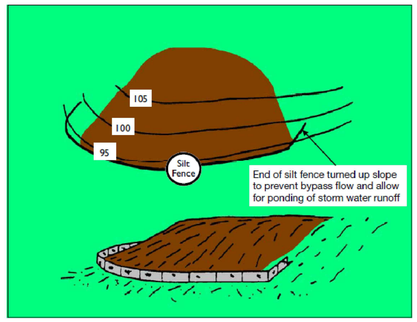


Exhibit 2

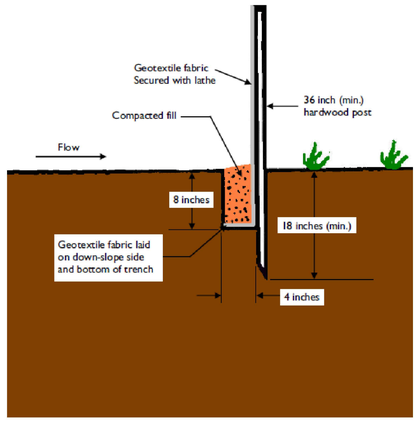
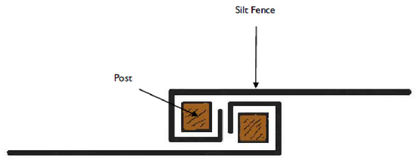
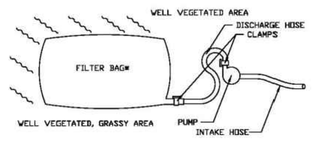


Exhibit 3

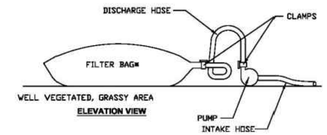


DE–WATERING SYSTEM

DETAIL 37 – PUMPED WATER FILTER BAG



PLAN VIEW



ELEVATION VIEW

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE	PAGE E – 29 – 3	WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

PREFRABRICATED CONCRETE WASHOUT SYSTEM/CONTAINER

MATERIALS

1. Self–contained sturdy containment systems that are delivered to a site
2. Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining
3. Signage.

SURFACE ROUGHENING

Roughening Slopes (To Be Mowed)

1. Make slopes to be mowed no steeper than 3:1.
2. Use a tiller, disk, harrow, or culti–packer to roughen the slopes, creating shallow grooves no more than ten inches apart, one inch deep, and that run parallel to the slope contour.

Roughening Areas with Tracked Machinery

1. Limit roughening with tracked machinery to sandy or relatively dry, finertextured soils to avoid undue surface compaction. (This roughening method is generally not as effective as other roughening methods).
2. Operate the tracked machinery up and down the slope so as to leave horizontal depressions in the soil.
   Note: Do not back–blade during the final grading operation.

Seeding, Fertilizing, and Mulching Roughened Areas

1. Immediately seed, fertilize, and mulch surface–roughened areas while soil is loose and moist to aid seed germination and vegetative growth (see Temporary Seeding Sheet C510; Permanent Seeding Sheet C510, C520; Mulching Sheet C520
2. If roughening with tracked machinery, consider seeding, fertilizing, and mulching first, letting the cleats of the tracks incorporate the seed and fertilizer into the soil and anchor the mulch. This is especially well suited for temporary seeding when timeliness is critical and equipment is unavailable for planting operations.

DANDY SACKS (PAVED INLET DROP PROTECTION)

MATERIALS

THE DANDY SACK™ WILL BE **MANUFACTURED IN THE U.S.A.** FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

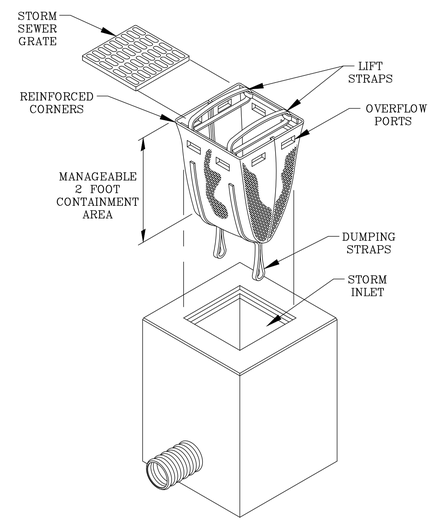
REGULAR FLOW DANDY SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec⁻¹	0.90

HI–FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) x 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

DANDY SACKS (PAVED INLET DROP PROTECTION) (CONT.)



EROSION CONTROL INSPECTION AND MAINTENANCE GUIDELINES

EROSION CONTROL INSPECTION GUIDELINES TABLE

EROSION CONTROL MEASURE	EROSION CONTROL MEASURE INSPECTION FREQUENCY			
	DAILY	WEEKLY	AFTER RAIN EVENT	AS NEEDED
TREE PRESERVATION		X		X
CONSTRUCTION ENTANCE	X			X
TOP SOIL STOCKPILE	X			X
TEMPORARY SEEDING		X	X	X
PERMANENT SEEDING		X	X	X
MULCHING		X	X	X
CONTROL BLANKET		X	X	X
TURF REINFOR. MAT		X	X	X
ROCK CHECK DAM		X	X	X
FABRIC INLET	X		X	X
SILT FENCE		X	X	X
CONCRETE WASHOUT	X		X	X
SURFACE ROUGHENING				X
DANDY SACKS		X	X	X
DUST CONTROL				X

EROSION CONTROL MAINTENANCE GUIDELINES

TREE PRESERVATION

1. Inspect at least once every seven calendar days.
2. Repair perimeter barriers if damaged.
3. Inspect for damage from construction equipment, etc. Repair wounds simply by removing damaged bark and wood tissue. Do not use tree paint.
4. Cable and brace any trunk splits, weak forks, and large limbs.
5. Properly prune all damaged limbs. Avoid leaving stubs.
6. Aerate soil where compaction has been excessive.
7. Fertilize to improve tree growth, vigor, and appearance.
8. Water during dry periods to help offset soil compaction and root damage.

TEMPORARAY CONSTRUCTION ENTRANCE

1. Inspect daily.
2. Reshape pad as needed for drainage and runoff control.
3. Top–dress with clean aggregate as needed.
4. Immediately remove mud and sediment tracked or washed onto public roads.
5. Flushing should only be used if the water from the construction drive can be conveyed into a sediment trap or basin.

TOPSOIL SALVAGE AND UTILIZATION

1. Inspect daily.
2. Check for damage to perimeter barrier; repair immediately.
3. Check for erosion or damage to newly spread topsoil; repair immediately and revegetate.

TEMPORARY SEEDING

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. Check for erosion or movement of mulch and repair immediately.
3. Monitor for erosion damage and adequate cover (80 percent density); reseed, fertilize, and apply mulch where necessary.
4. If nitrogen deficiency is apparent, top–dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

PERMANENT SEEDING

1. Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established.
2. Characteristics of a successful stand include vigorous dark green or bluishgreen seedlings with a uniform vegetative cover density of 90 percent or more.
3. Check for erosion or movement of mulch.
4. Repair damaged, bare, gullied, or sparsely vegetated areas and then fertilize, reseed, and apply and anchor mulch.
5. If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas.
6. If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems. (Contact your soil and water conservation district or cooperative extension office for assistance.)
7. If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

EROSION CONTROL INSPECTION AND MAINTENANCE GUIDELINES (CONT.)

EROSION CONTROL MAINTENANCE GUIDELINES (CONT.)

PERMANENT SEEDING (CONT.)

8. Add fertilizer the following growing season. Fertilize according to soil test recommendations.
9. Fertilize turf areas annually. Apply fertilizer in a split application. For cool–season grasses, apply one–half of the fertilizer in late spring and onehalf in early fall. For warm–season grasses, apply one–third in early spring, one–third in late spring, and the remaining one–third in middle summer.

MULCHING

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. Check for erosion or movement of mulch; repair damaged areas, reseed, apply new mulch and anchor the mulch in place.
3. Continue inspections until vegetation is firmly established.
4. If erosion is severe or recurring, use erosion control blankets or other more substantial stabilization methods to protect the area.

EROSION CONTROL BLANKET

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. Check for erosion or displacement of the blanket.
3. If any area shows erosion, pull back that portion of the blanket covering the eroded area, add soil and tamp, reseed the area, replace and staple the blanket.

TURF REINFORCEMENT MAT

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. Check for erosion or displacement/exposure of the mat.
3. If a specific area shows erosion, add soil and restabilize.

ROCK CHECK DAM

1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
2. If significant erosion occurs between dams, install an erosion–resistant liner in that portion of the channel.
3. Remove accumulated sediment when it reaches one–half the height of the dam to maintain channel capacity, allow drainage through the dam, and prevent large flow from displacing sediment.
4. Add riprap and aggregate as needed to maintain design height and cross section of the dams.
5. When dams are no longer needed, remove the riprap and aggregate and stabilize the channel, using an erosion–resistant lining if necessary. (Riprap and aggregate from the dam may be removed or utilized to stabilize the channel.)

GEOTEXTILE FABRIC DROP INLET PROTECTION

1. Inspect daily.
2. Inspect geotextile fabric and make needed repairs immediately.
3. Remove sediment from pool area to provide storage for the next storm event. Avoid damaging or undercutting fabric during sediment removal.
4. When contributing drainage area has been stabilized, remove sediment, properly dispose of all construction material, grade area to the elevation of the storm drain inlet top, then stabilize immediately.

SILT FENCE

1. Inspect within 24 hours of a rain event and at least once every seven calendar days.
2. If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately. Note: All repairs should meet specifications as outlined within this measure.
3. Remove deposited sediment when it is causing the filter fabric to bulge or when it reaches one–half the height of the fence at its lowest point. When contributing drainage area has been stabilized, remove the fence and sediment deposits, grade the site to blend with the surrounding area, and stabilize.

PREFRABRICATED CONCRETE WASHOUT SYSTEM/CONTAINER

1. Inspect daily and after each storm event.
2. Inspect the integrity of the overall structure including, where applicable, the containment system.
3. Inspect the system for leaks, spills, and tracking of soil by equipment.
4. Inspect the polyethylene lining for failure, including tears and punctures.
5. Once concrete wastes harden, remove and dispose of the material.
6. Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.
7. Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
8. Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability for recycling should be checked locally.
9. The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
10. Concrete washout systems are designed to promote evaporation. Prefabricated units are often pumped and the company supplying the unit provides this service.
11. Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify the violators and take appropriate action.

DUST CONTROL

Minimizing wind erosion and controlling dust will be accomplished by one or more of the following methods:

1. Covering 30% or more of the soil with a non–erodible material
2. Roughening the soil to produces ridges (at least 6 inches) perpendicular to the prevailing wind.
3. Frequent watering of excavation and fill ares
4. Providing gravel or paving at entrance/exit drives, parking areas, and transit paths

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TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER

Trent A Baxter

CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

Site Erosion Control Details

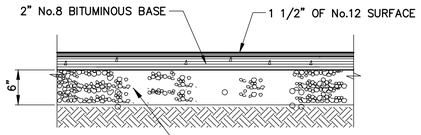
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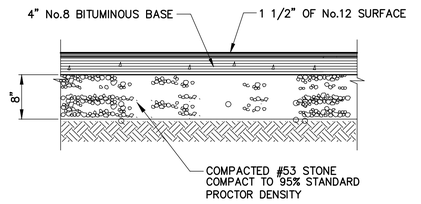
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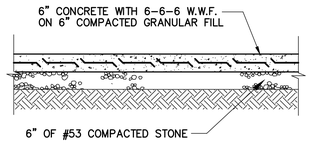
C530



TYPICAL NORMAL DUTY ASPHALT PAVEMENT DETAIL
NO SCALE

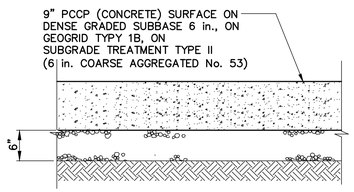


TYPICAL HEAVY DUTY ASPHALT PAVEMENT DETAIL
NO SCALE

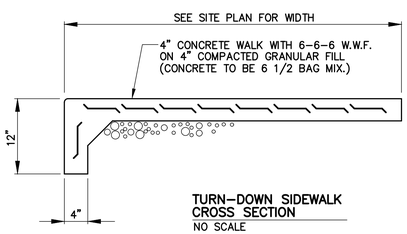


TYPICAL CONCRETE PAVEMENT
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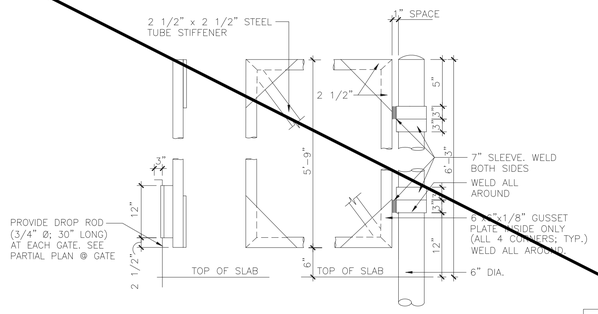
TYPICAL DUMPSTER ENCLOSURE PAVEMENT
NO SCALE



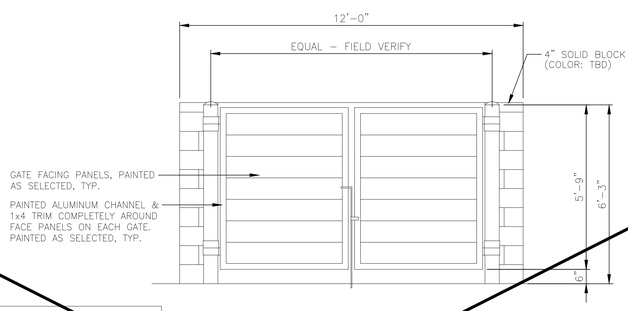
TYPICAL CONCRETE RIGHT-OF-WAY PAVEMENT
NO SCALE



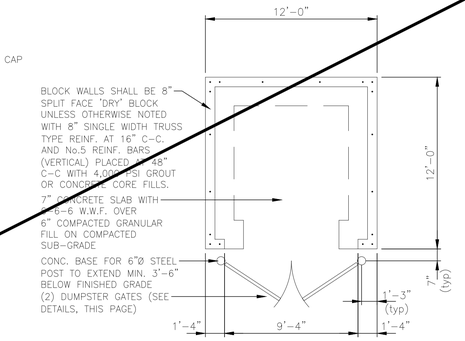
TURN-DOWN SIDEWALK
CROSS SECTION
NO SCALE



TYPICAL DUMPSTER ENCLOSURE
GATE DETAILS
SCALE: N.T.S.



TYPICAL DUMPSTER ENCLOSURE
GATE ELEVATION (FRONT)
SCALE: N.T.S.

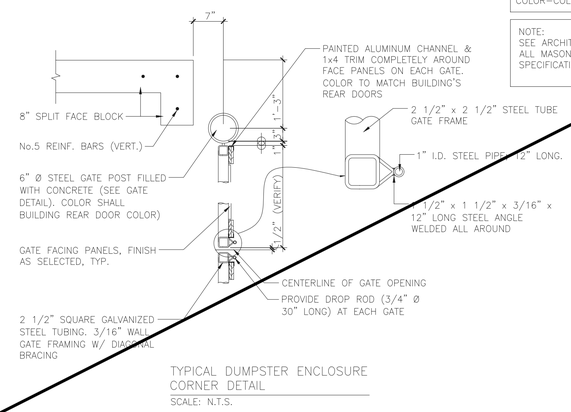


DUMPSTER ENCLOSURE PLAN
SCALE: 1" = 1'-0"

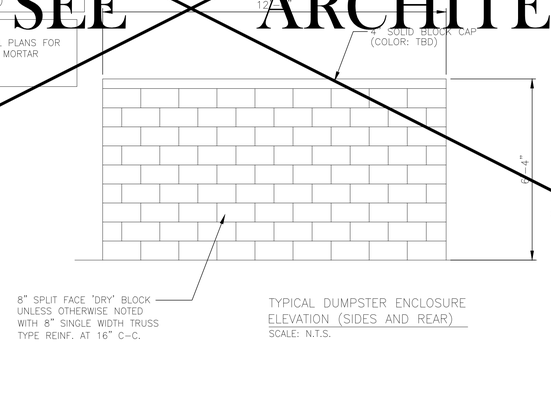
NOTE:
ALL DUMPSTER ENCLOSURE BLOCK WALLS SHALL BE 8" SPLIT FACE 'DRY' BLOCK UNLESS OTHERWISE NOTED (PAINT BLOCK WALLS INSIDE AND OUTSIDE WITH (1) COAT BLOCK FILLER AND (1) COAT OF FINAL COLOR-COLOR: TBD)

NOTE:
SEE ARCHITECTURAL PLANS FOR ALL MASONRY AND MORTAR SPECIFICATIONS

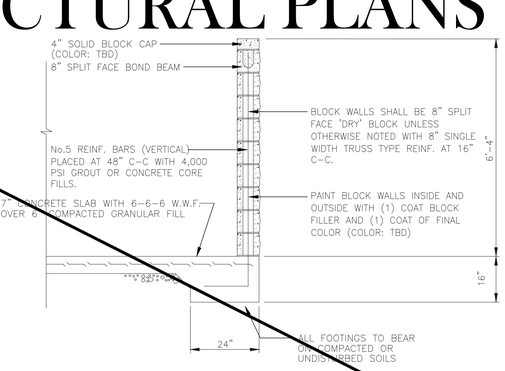
SEE ARCHITECTURAL PLANS



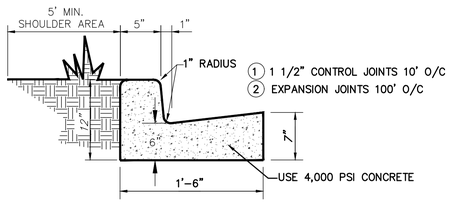
TYPICAL DUMPSTER ENCLOSURE
CORNER DETAIL
SCALE: N.T.S.



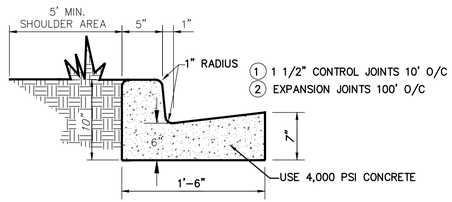
TYPICAL DUMPSTER ENCLOSURE
ELEVATION (SIDES AND REAR)
SCALE: N.T.S.



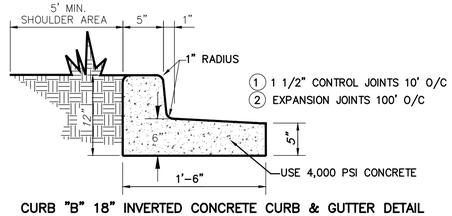
TYPICAL DUMPSTER ENCLOSURE WALL SECTION
SCALE: 1/2"= 1'-0"



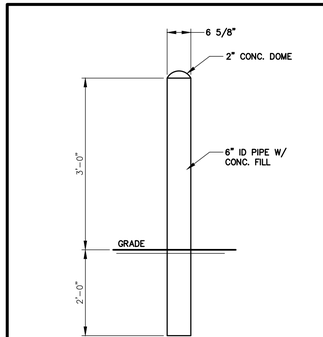
CURB "A" 18" CONCRETE CURB & GUTTER DETAIL
NO SCALE



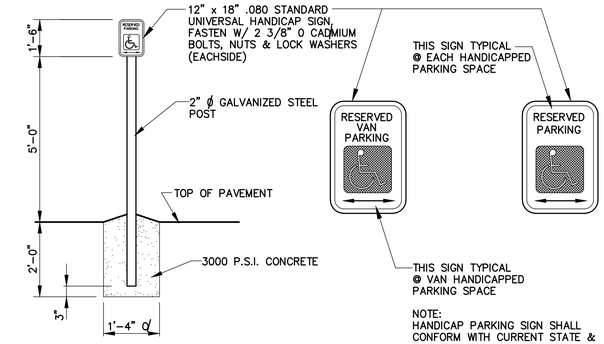
CURB "C" 18" CONCRETE CURB & GUTTER DETAIL
NO SCALE



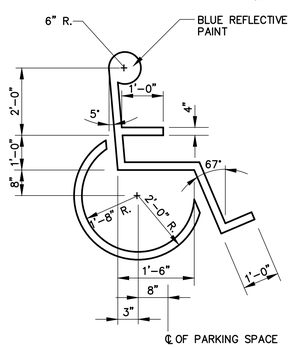
CURB "B" 18" INVERTED CONCRETE CURB & GUTTER DETAIL
NO SCALE



TYPE 6"dia. PIPE BOLLARD DETAIL
SCALE: NO SCALE



HANDICAP PARKING SIGNS
NO SCALE



INTERNATIONAL
HANDICAP DETAIL
NO SCALE

REVISION

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REGISTERED
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STATE OF INDIANA
PROFESSIONAL ENGINEER

Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

General Sitework Details

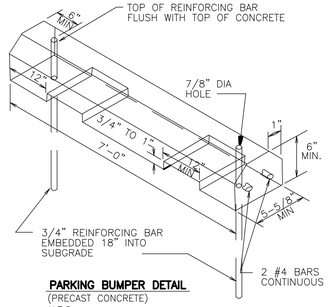
Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: as noted	

CAD FILE:
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THIS DRAWING IS THE PROPERTY OF VERSITILE CONSTRUCTION GROUP, LLC. ANY ALTERATION TO THIS DRAWING IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT AND UNDER THE DIRECTION OF THE PROFESSIONAL LICENSOR WHOSE SEAL IS AFFIXED TO THIS DRAWING.

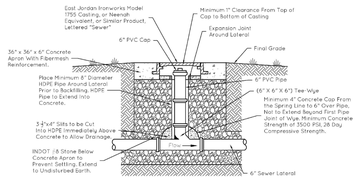
SHEET TITLE:

C600



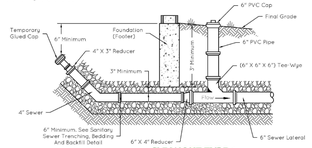
PARKING BUMPER DETAIL
(PRECAST CONCRETE)
N.T.S.

Note:
Concrete apron and casting shall be installed so that they do not contact the lateral or lateral cap.



CLEANOUT TYPE 2
(Hardscape Surfaces and All Other Installations Beyond Three Feet of Building)

Note:
All slab and crawl space connections must be a minimum of 3" below the footer and exit the building at the front of the structure to provide the shortest, most direct route from the building to the existing lateral stub.

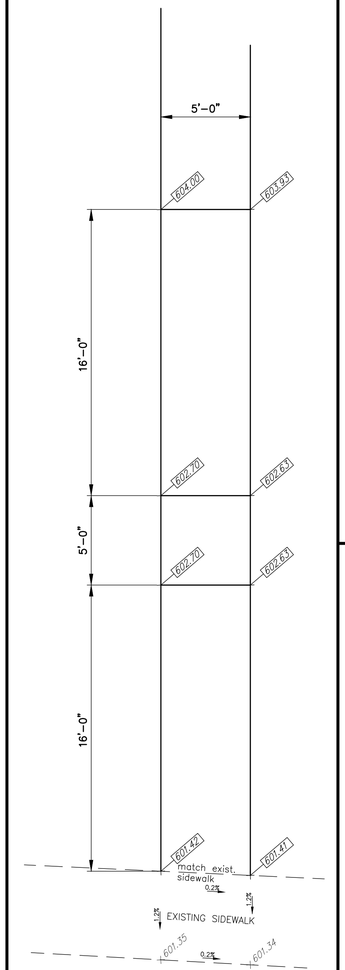


CLEANOUT TYPE 1
(Only Landscaped Surfaces Within Three Feet of Building)

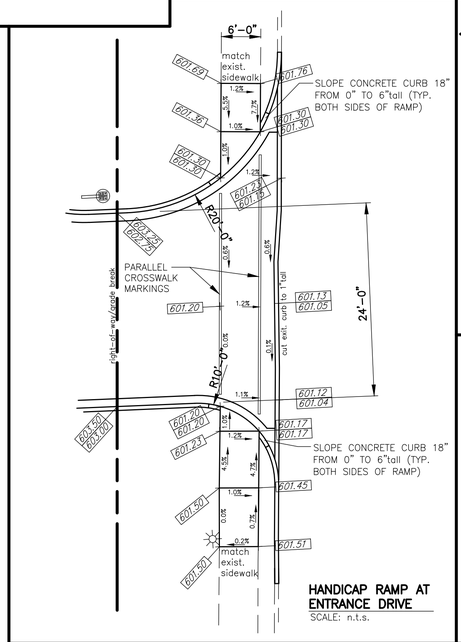
Note:
Lateral contractor to install in top of cleanout cap a 1-1/2" x 1/4" Mag Nail as manufactured by CHRISNIK, Inc. of Cincinnati, Ohio and sealed with exterior clear silicone sealant.

Notes:
1) Top of casting or cleanout cap shall extend 0.20 feet minimum above finished grade unless constructed within pedestrian or vehicular traffic way. Unless approved by Engineer, sanitary sewer castings or cleanouts must not be within one (1) foot horizontal distance of any paved or concrete surfaces.
2) All cleanout pipes and fittings to be PVC Schedule 40 or SDR 35 when shallower than twelve (12) feet. At depths greater than twelve (12) feet, material of construction will be determined by Engineer.

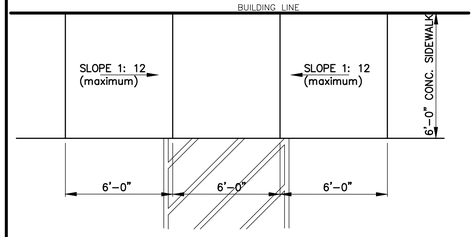
TYPICAL CLEANOUTS
Not to Scale



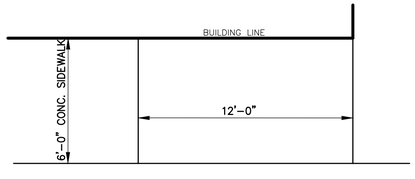
HANDICAP RAMPS AT SOUTHEAST SIDE OF PATIO DETAIL
SCALE: n.t.s.



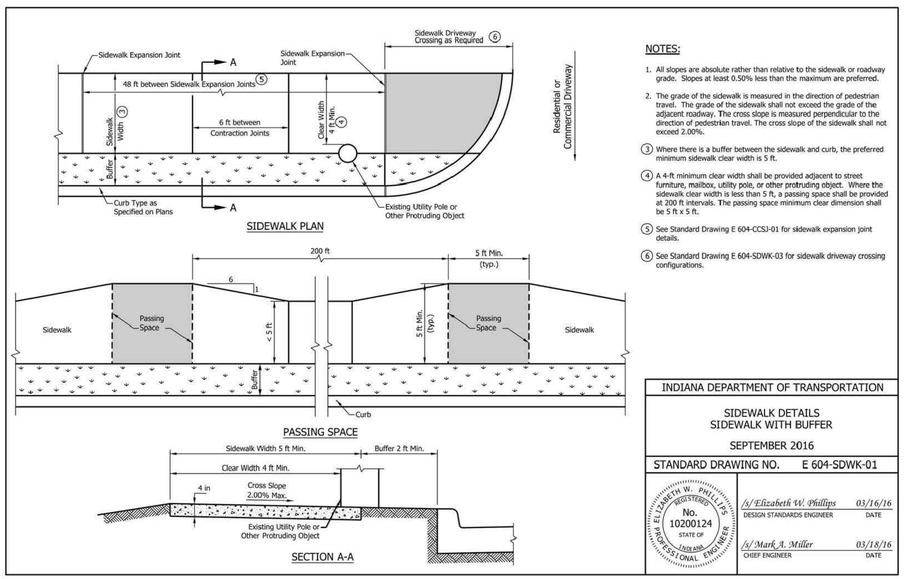
HANDICAP RAMP AT ENTRANCE DRIVE
SCALE: n.t.s.



HANDICAP RAMP AT HDCP PARKING DETAIL
SCALE: n.t.s.



HANDICAP RAMP AT NORTHWEST CORNER OF BUILDING DETAIL
SCALE: n.t.s.

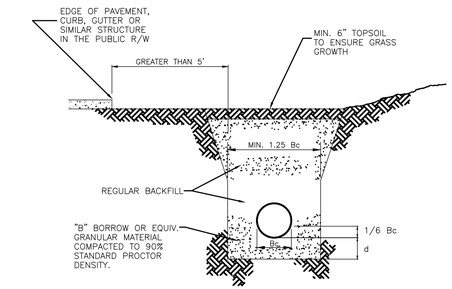


NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
2. The grade of the sidewalk is measured in the direction of pedestrian travel. The grade of the sidewalk shall not exceed the grade of the adjacent roadway. The cross slope is measured perpendicular to the direction of pedestrian travel. The cross slope of the sidewalk shall not exceed 2.00%.
3. Where there is a buffer between the sidewalk and curb, the preferred minimum sidewalk clear width is 5 ft.
4. A 4-ft minimum clear width shall be provided adjacent to street furniture, mailbox, utility pole, or other protruding object. Where the sidewalk clear width is less than 5 ft, a passing space shall be provided at 200 ft intervals. The passing space minimum clear dimension shall be 5 ft x 5 ft.
5. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.
6. See Standard Drawing E 604-SDWK-03 for sidewalk driveway crossing configurations.

INDIANA DEPARTMENT OF TRANSPORTATION	
SIDEWALK DETAILS SIDEWALK WITH BUFFER SEPTEMBER 2016	
STANDARD DRAWING NO. E 604-SDWK-01	
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips 03/16/16 DESIGN STANDARDS ENGINEER DATE /s/ Mark A. Miller 03/18/16 CHIEF ENGINEER DATE

HANDICAP RAMP ON EXISTING SIDEWALK AT THE ENTRANCE DRIVE DETAIL
SCALE: n.t.s.



GREATER THAN 5' FROM EDGE OF PAVEMENT

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	(d) MIN.
27" & SMALLER	4"
30" TO 60"	4"
66" & LARGER	6"

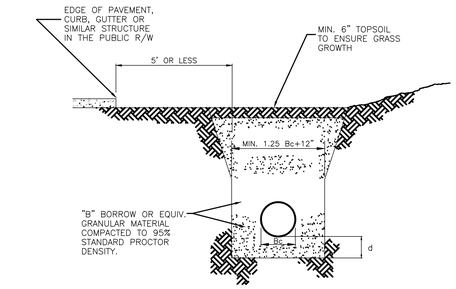
NOTE:
ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL
GREATER THAN 5' FROM EDGE OF PAVEMENT



WITHIN 5' OF EDGE OF PAVEMENT

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	(d) MIN.
27" & SMALLER	4"
30" TO 60"	4"
66" & LARGER	6"

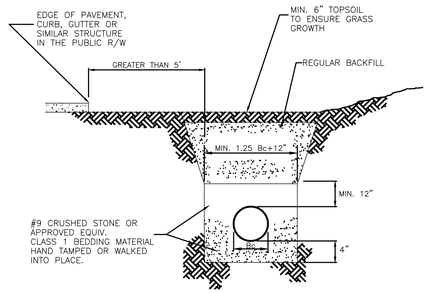
NOTE:
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LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL
WITHIN 5' OF EDGE OF PAVEMENT



GREATER THAN 5' FROM EDGE OF PAVEMENT

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	(d) MIN.
27" & SMALLER	4"
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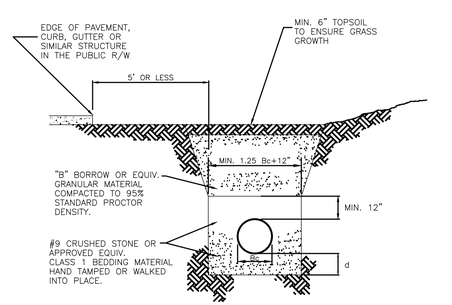
NOTE:
ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

PLASTIC PIPE (PVC & HDPE) TRENCH DETAIL
GREATER THAN 5' FROM EDGE OF PAVEMENT



WITHIN 5' OF EDGE OF PAVEMENT

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	(d) MIN.
27" & SMALLER	4"
30" TO 60"	4"
66" & LARGER	6"

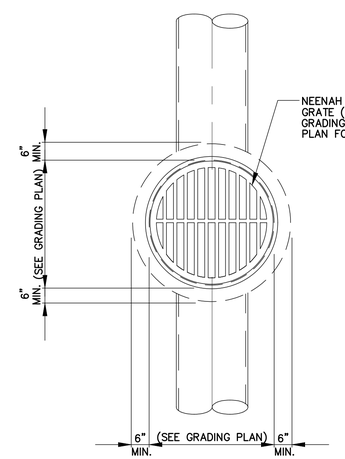
NOTE:
ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

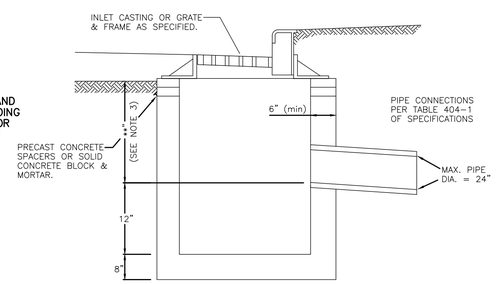
A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

PLASTIC PIPE (PVC & HDPE) TRENCH DETAIL
WITHIN 5' OF EDGE OF PAVEMENT





NOTES:

1. ALL MATERIAL AND CONSTRUCTION TO CONFORMANCE WITH INDIANA DEPT. OF TRANSPORTATION (INDOT) SPECIFICATIONS.
2. POURED BENCHWALL AND PIPE CONNECTION VARY WITH BOX TYPE SPECIFIED.
3. HEIGHT DIMENSIONS MAY VARY AS REQUIRED BY SITE CONDITIONS.
4. ALL STORM SEWER CASTINGS SHALL HAVE AN EMBOSSED ENVIRONMENTAL LOGO (FISH) WITH THE WORDS 'DUMP NO WASTE – DRAINS TO STREAM'.

Precast Concrete Box Inlet

NOTE: ALL MANHOLES AND INLETS SHALL BE PLACED ON NO LESS THAN 6 INCHES OF STONE.

REVISION

09/16/2025	revised per INDOT comments
09/24/2025	revised entry drive, front grading, and sidewalk to public sidewalk
10/10/2025	revised per INDOT comments

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BaxterEngineeringllc@gmail.com

TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

General Sitework Details

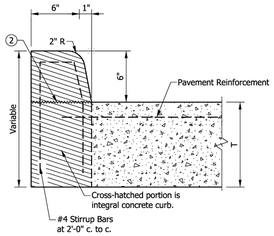
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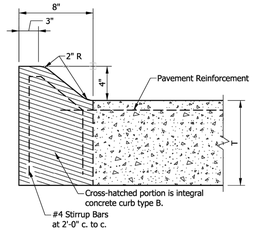
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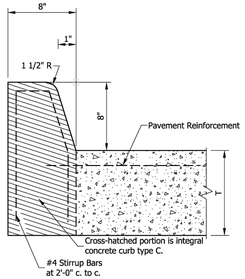
C610



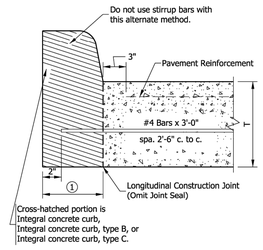
INTEGRAL CONCRETE CURB
(VERTICAL)



INTEGRAL CONCRETE CURB
TYPE B
(SLOPING)



INTEGRAL CONCRETE CURB
TYPE C
(VERTICAL)



ALTERNATE METHOD
OF CONSTRUCTION FOR ALL TYPES
OF INTEGRAL CONCRETE CURB

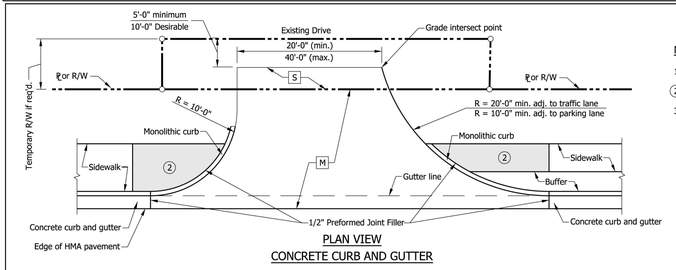
NOTES:

1. 8 in. for integral concrete curb type B or C and 7 in. for integral concrete curb.
2. Concrete below this line may be poured with the pavement.

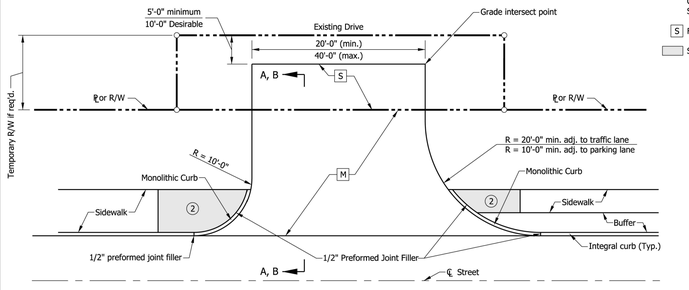
LEGEND:

T = Nominal Pavement Thickness

INDIANA DEPARTMENT OF TRANSPORTATION	
INTEGRAL CONCRETE CURB	
SEPTEMBER 2004	
STANDARD DRAWING NO. E 605-CCIN-01	
RICHARD L. VANCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Richard L. VanCleave 9-01-04 DESIGN STANDARDS ENGINEER DATE /s/ Richard K. Smutzer 9-01-04 CHIEF ENGINEER DATE



PLAN VIEW
CONCRETE CURB AND GUTTER



PLAN VIEW
INTEGRAL CONCRETE CURB

NOTES:

1. See Standard Drawing E 610-DRIV-09 for Section A-A, and Section B-B.
2. See Standard Drawing E 604-SDWK-03 for sidewalk driveway crossing details.
3. See Standard Drawing E 610-DRIV-14 for joint placement, monolithic curb, and concrete curb and gutter details.

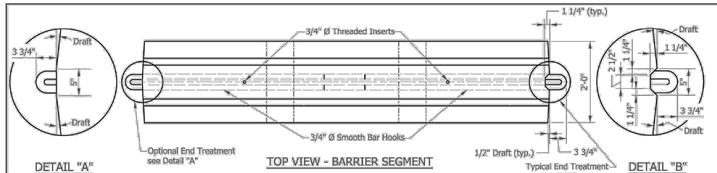
LEGEND

M PCCP for Approaches 9 in., on Dense Graded Subbase, on Geogrid Type 1B, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)

S For type and thickness equivalent to surface in place, see plans.

Sidewalk elevation transitions.

INDIANA DEPARTMENT OF TRANSPORTATION	
CLASS III DRIVE (COMMERCIAL)	
SEPTEMBER 2019	
STANDARD DRAWING NO. E 610-DRIV-04	
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	5/1/2019 DESIGN STANDARDS ENGINEER DATE 6/5/2019 CHIEF ENGINEER DATE



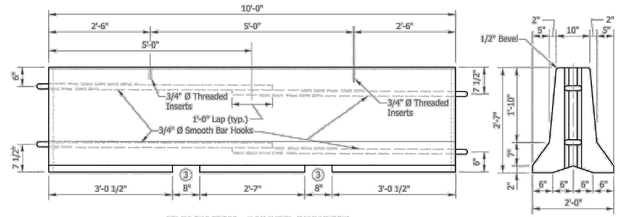
DETAIL "A"

TOP VIEW - BARRIER SEGMENT

DETAIL "B"

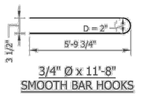
NOTES:

1. For freeways and interstates, the maximum barrier flare rate and construction clear zone distance shall be based on 70 mph for the first run of barrier within the construction zone. For subsequent barrier placement, the barrier flare rates and construction clear zone distance shall be based on 70 mph unless otherwise shown on the plans.
2. The barrier taper flare rate and construction clear zone distance are shown in Table No. 1. Construction clear zone distance is measured from the through travel lane. The barrier taper flare rate shall be as shown or flatter.
3. The dimensions of the lifting slots are subject to adjustment as necessary to accommodate handling equipment.
4. For additional connection details see Standard Drawing E 801-TCCB-03.



FRONT VIEW - BARRIER SEGMENT

END VIEW

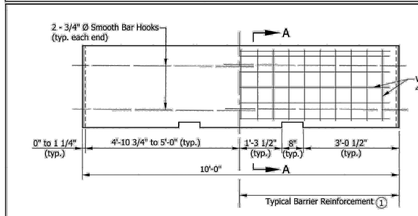


3/4" Ø x 11'-8"
SMOOTH BAR HOOKS

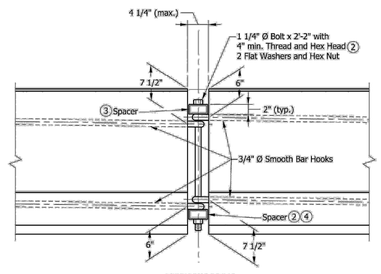
TABLE NO. 1

Construction Zone Design Speed	Barrier Taper Flare Rate	Construction Clear Zone Distance
70 mph	20:1	30
60 mph	18:1	30
55 mph	16:1	23
50 mph	14:1	16
45 mph	12:1	16
40 mph	10:1	13
≤ 35 mph	10:1	13

INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY CONCRETE BARRIER DIMENSIONS AND FLARE RATES	
SEPTEMBER 2024	
STANDARD DRAWING NO. E 801-TCCB-02	
ELIZABETH P. MOUSER REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	04/09/2024 DESIGN STANDARDS ENGINEER DATE 04/17/2024 CHIEF ENGINEER DATE

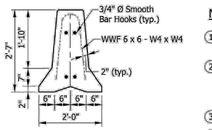


REINFORCEMENT DETAILS

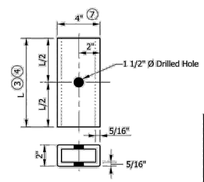


FRONT VIEW

CONNECTION DETAIL



SECTION A-A 1

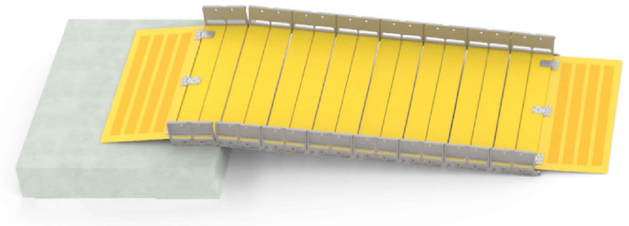


SPACER DETAIL

NOTES:

1. Section A-A shows reinforcement with welded wire fabric. The WWF may be bent to the shape of the wall.
2. Hex nut may be tack welded to bottom spacer to facilitate installation and removal. Bolts shall be torqued only to tight condition. Clearance between the spacer and the ends of the barrier shall allow angular deflection at the joints to allow flare rate 11:1 or flatter.
3. Top spacer TS 4" x 2" x 5/16" x 10" long.
4. Bottom spacer TS 4" x 2" x 5/16" x 1'-4" long.
5. Where necessary to meet short radius curving alignment, the shorter top spacer (10") may be substituted for the standard bottom spacer (16").
6. For additional connection details see Standard Drawing E 801-TCCB-02.
7. Where very short radius curving alignment is encountered, spacers may be TS 3" x 2" x 1/4" x the appropriate length as shown above.
8. In lieu of the connection detail shown, the J-J Hook temporary barrier connection of Easi-Set Industries as described in FHWA eligibility letter B-52 of March 26, 1999 may be used.

INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY CONCRETE BARRIER DETAILS	
SEPTEMBER 2019	
STANDARD DRAWING NO. E 801-TCCB-03	
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	5/2/2019 DESIGN STANDARDS ENGINEER DATE 6/5/2019 CHIEF ENGINEER DATE



TEMPORARY ADA COMPLIANT RAMP DETAIL
SCALE: no scale

REVISION
10/20/2025 revised per INDOT comments

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email: info@versatile-llc.com

BAXTER ENGINEERING LLC
570 Tracy Road, Suite 610
New Whiteland, IN 46184
Office: 317-535-3579
Cell: 317-509-4142
BaxterEngineeringllc@gmail.com

TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER
Trent A. Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

General Sitework Details

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: as noted	

CAD FILE:
G:\25002\c620 general sitework details.dwg

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SHEET TITLE:

C620

Advanced Drainage Systems, Inc.

SiteAssist™
FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 325 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

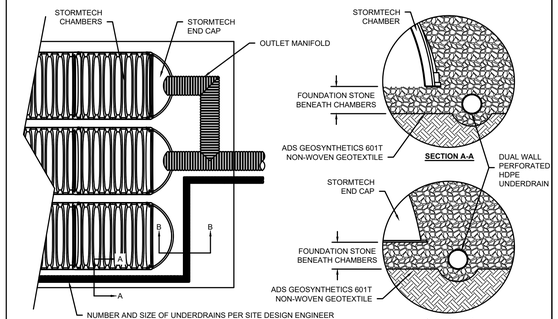
1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

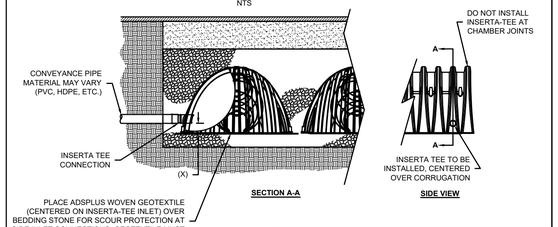
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



5 UNDERDRAIN DETAIL

INSERTA TEE DETAIL
NTS

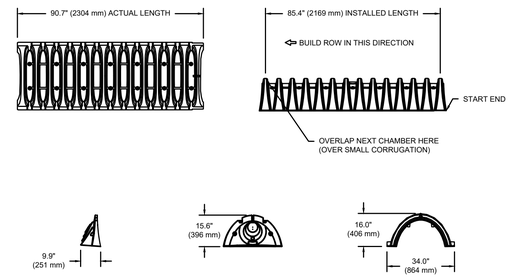


CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

6 INSERTA-TEE SIDE INLET DETAIL

SC-310 TECHNICAL SPECIFICATION
NTS

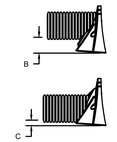


NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	29.34 CUBIC FEET	(0.83 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (150 mm) ABOVE AND BELOW CHAMBER; 3" (75 mm) BETWEEN CHAMBERS

PART #	STUB	B	C
SC310EPE06TPC	6" (150 mm)	5.8" (147 mm)	---
SC310EPE06BPC		---	0.5" (13 mm)
SC310EPE08TPC	8" (200 mm)	3.5" (89 mm)	---
SC310EPE08BPC		---	0.6" (15 mm)
SC310EPE10TPC	10" (250 mm)	1.4" (36 mm)	---
SC310EPE10BPC		---	0.7" (18 mm)
SC310ECEZ*	12" (300 mm)	---	0.9" (23 mm)



ALL STUBS, EXCEPT FOR THE SC310ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310ECEZ THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

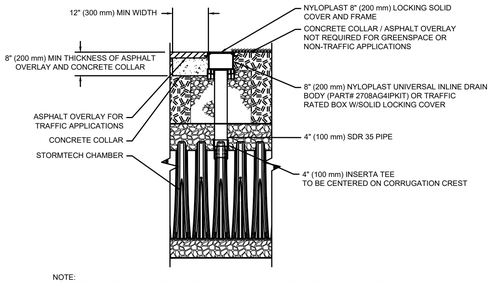
NOTE: ALL DIMENSIONS ARE NOMINAL; PRE-CORED END CAPS END WITH "PC"

2 SC-310 TECHNICAL SPECIFICATIONS



SC-310 ISOLATOR ROW PLUS DETAIL
NTS

3 SC-310 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

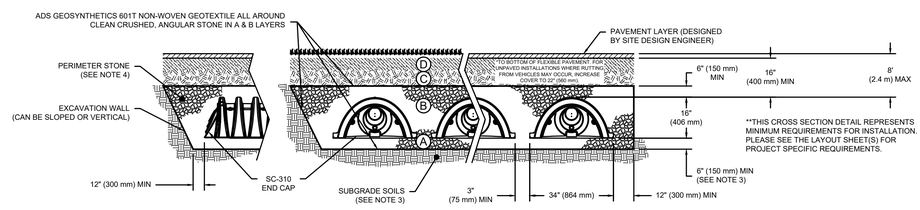
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	3.25	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 16" (400 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2" (50 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 325 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-310 CROSS SECTION DETAIL

REVISION
12/03/2025 revised stormwater per INDOT comments

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Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

General Sitework Details

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab / Scale: as noted

CAD FILE:
G:\25002\c630 general sitework details.dwg

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SHEET TITLE:
C630

GENERAL: WHEREVER A CONFLICT OR DEFICIENCY OCCURS BETWEEN THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THIS IMMEDIATE PROJECT AND THE CONSTRUCTION STANDARDS AND SPECIFICATIONS ADOPTED BY THE LOCAL GOVERN AGENCIES, THE HIGHER OR MORE RESTRICTIVE STANDARD OR SPECIFICATION SHALL APPLY.

A. STANDARD CONDITIONS

1. The Contractor shall be responsible for obtaining or verifying that all permits and approals are obtained from the respective city, county and state agencies prior in starting construction.
2. It shall be the responsibility of each utility, contractor and/or sub-contractor to obtain all permits and approvals to open cut any road from the appropriate department.
3. It shall be the Contractor's responsibility to determine the exact location of all existing utilities in the vicinity of the construction area prior to starting construction.
4. It shall be the Contractor's responsibility for notification and coordination of all construction with the respective utility companies.
5. It shall be the responsibility of the Developer and Contractor to maintain quality control throughout the project; failure to do so may result in removal and replacement of the defective work. It is recommended that the Developer have a qualified inspector on the job site at all times during construction.
6. It is essential that the work be done in conjunction with this project shall be installed according to these specifications. The engineer will be required to certify to certain portions of this project upon completion. Therefore, it is necessary to obtain approval and acceptance by the city, county, state or govern agency that construction was done in compliance with these plans and specifications.

B. CLEARING AND GRUBBING

1. Clearing and grubbing shall consist of cutting removal and satisfactory disposal of all trees, down timber, brush, projecting roots, stumps, rubbish, boulders, broken concrete, fencing (as designated) and other material on the project site and within the boundary as shown on the construction documents and/or as designed by "construction limits".
2. Special instructions shall be taken to insure that trees to be left remaining in the project area shall not receive limb, bark or root injuries. hen such injuries occur, all rough edges of scarred areas shall be removed in accordance with accepted horticultural practice and the scars coated thoroughly with an asphaltum base tree paint.
3. All "unsuitable material" from clearing operations stated in items B-1 shall be remove to disposal area(s) off of the project site; unless a "bury pit" shall be utilized in an area where it shall not be beneath building areas and/or pavement areas and shall not be located in an area where storm drainage structures shall be located or where impoundment of surface drainage may occur.
4. Material shall not be disposed of by burying unless approved by the local and state fire marshal.

C. TREE REMOVAL AND PROTECTION

1. Trees should only be cleared only where the area is to be occupied by road and surfaced areas in accordance with specifications of the city, county, state or govern agency.
2. Trees shall be removed from the project site or buried within the project as directed by the Developer and only in the areas designated.
3. Trees shall be removed from the project where they interfere directly with the placement of storm or sanitary sewers and that such excavation is or will be fatal to such adjacent trees.
4. The Contractor shall endeavor to save and protect trees of value and work which do not impair construction of improvements as designated. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measures to be taken, if any, to preserve such trees.
5. The contractor shall be responsible for determining the method for protection of tops, trunks and roots of existing trees on the project site prior to error's. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any adjacent work is started. Earth or material or equipment shall not be stockpiled or stored within the spread of branches. Branches which need to be removed or are broken shall be neatly trimmed and shall be covered with tree paint.

D. STRIPPING OF TOPSOIL

1. The contractor shall verify that all topsoil has been removed in the areas to be occupied by roads, walks and designated building areas. Topsoil shall be removed to a depth of six (6) inches or deeper, if necessary, to remove vegetable matter where required.
2. Topsoil shall be kept separated from suitable fill materials and shall not be used to fill under pavement and/or building areas.
   Operations. Excess topsoil shall be spoiled on the site as directed by Owner or Engineer.
3. Topsoil placed on the lot shall be reasonably free from subsoil debris and stones.

E. GRADING

1. The contractor shall perform all grading operations to bring subgrades, after final compaction, to the required grades and sections of site improvements.
2. Subgrade shall be proofrolled with suitable equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material.
3. Subgrade shall be prepared in compliance with I.N.D.O.T. Standard Specifications, latest Edition , Section 207, as revised, with the city, state or govern agencies approving the subgrade before paving.
4. All fill materials shall be formed from soil free of deleterious material. Prior to placement of fill a sample of the proposed fill material should be submitted to the soils Engineer for his approval.
5. All fill material in areas outside of building and pavement areas shall be compacted lightly and protected from erosion by one or more of the methods of item 0. areas for building and pavement construction shall not have unsuitable material placed in the location and fill shall be compacted to 95% Standard Proctor. These areas shall be determined by the Developer's representative.

F. SANITARY SEWERS

1. GENERAL
   a. Current City of Charleston sanitary notes, general notes, and sewer details shall prevail as to materials and methods of construction.
   b. The contractor shall be responsible for obtaining or verifying all permits for all of portions of this project prior to starting construction.
   c. Sanitary sewers shall be installed in accordance with the Indiana Department of Environmental Management (Division of Water Management).
   d. None of the sanitary sewers are to be constructed until a letter of approval from the Department of Environmental Management has been received by the Engineer. The Engineer will then contact the Developer or Contractor of the said approval.
2. GRAVITY SANITARY SEWERS
   a. The Department of public works currently allows the use of the following pipe materials meeting or exceeding the minimum requirements/specifications set forth herein for the construction of gravity sanitary sewers:

      – Polyvinyl Chloride Pipe (PVC)
      – Ductile Iron Pipe (DIP)

      Vitrified Clay Pipe (VCP) is NOT an approved material for the construction of sanitary sewers.

F. (CONTINUED)

   b. In general, all gravity sanitary sewer pipe shall be the bell and spigot type with elastomeric seal joints and smooth interior walls meeting or exceeding all requirements set forth in the latest ASTM standard reference herein.
   c. THE DEPARTMENT DOES NOT ALLOW THE USE OF SOLVENT CEMENT JOINT FOR GRAVITY SANITARY SEWERS EIGHT (8) INCHES IN DIAMETER OR LARGER.
   d. Each length of pipe shall be marked per the requirements of the respective ASTM Standards.
3. GRAVITY SANITARY SEWERS MATERIALS
   a. Polyvinyl Chloride Pipe
      1. Pipe: Polyvinyl Chloride (PVC) gravity sanitary sewer pipe shall be the integral wall bell and spigot type with elastomeric seal joints and smooth inner walls meeting or exceeding all the requirements set forth on ASTM F-679 for pipe diameters greater than 15 inches.
      2. For diameters 15 inches or less, the pipe shall have a minimum cell classification of 12454-B or 12454-C and for diameters greater that 15 inches, the pipe shall have a minimum cell classification 12454-C: with all pipe having a minimum tensile strength of 3450 MPA as defined in ASTM D-1784.
      3. PVC sanitary sewer pipe shall have a minimum stiffness of 46 PSI for each diameter when measured at 5% vertical ring deflection and tested in accordance with ASTM D-2412.
      4. Polyvinyl Chloride (PVC) ribbed sewer pipe meeting or exceeding requirements set forth in ASTM F-949-86a or ASTM F-794 is acceptable. The minimum cell classification acceptable shall be 12454-B or 12454-C as defined in ASTM D-1784. PVC ribbed sewer pipe shall have a minimum pipe stiffness of 50 psi when measured in accordance with ASTM D-2412.
      5. Design: The minimum wall thickness for PVC sewer pipe and lateral sewer pipe 15- inches or less in diameter shall conform to SDR-35 Type PSM as specified in ASTM D-3034. The minimum wall thickness for PVC sewer pipe greater than 15- inches in diameter shall conform to T-1 as specified in ASTM F-679.
      6. Marking: the date of manufacture, class of pipe, specification destination, size of pipe, name or trademark of manufacturer, and identification of plant location shall be legible marked on the outside of each pipe section in accordance with the ASTM D-3034.
      7. Certification: the contractor upon request shall furnish the Department with manufacturer's certification stating that the pipe supplied meets or exceeds all requirements of the applicable ASTM standards and these standards.
         a. Joints
            1. Flexible gasketed joints shall be compression type so that when assembled, the gasket inside the bell will be compressed radially on the pipe spigot to form a watertight seal. The assembly of joints shall be in accordance with pipe manufacturer's recommendations and ASTM D-3212. The gasket sealing the joint shall be made of rubber: of special composition having a texture to assure a watertight and permanent seal, and shall be the product of a manufacturer having at least (5) five years experience in the manufacture of rubber gaskets for pipe joints. The gasket shall be a continuous ring of flexible joint rubber of a composition and texture which is resistant to common ingredients of sewage, industrial wastes and groundwater, and which endure permanently under the conditions likely to be imposed by this service. The gasket shall conform the requirements of ASTM F-477.
            2. NO SOLVENT CEMENT JOINTS SHALL BE ALLOWED.
         b. Fittings
            1. Only manufactured fittings made of PVC plastic having a cell classification of 12454-B or 12454-C as defined in ASTM D-1784 shall be used.
            2. Saddle connections shall not be allowed for new construction.
   b. DUCTILE IRON PIPE
      1. Material: Ductile iron pipe in diameters from eight (8) inches through thirty six inches (36) shall be centrifugally cast and shall conform to ANSI Specifications A-21.51 and AWWA C-151 latest revision. Ductile iron pipe shall be class 50, 51, 52 or 54 wall thickness dependent upon site conditions and provided in minimum laying lengths of eighteen (18) feet. Ductile iron pipe larger than thirty six (36) feet in diameter shall be approved on a case by case basis by the department.
      2. Fittings: Fittings shall be standardized for type the pipe of pipe and joint specified and shall comply with ANSI A-21.10, AWWA C-110.
      3. Joints: Mechanical joints, slip or flanged joints shall be provided.
      4. Weights and Marking: Weights of pipe fittings shall conform strictly to requirements of ANSI Specifications. The class designations for the various classes of pipe and fittings shall be cast onto fittings in raised numerals, and cast or stamped on the outside of each joint of pipe. Weights shall be plainly and conspicuously painted in white on the outside of each joint of pipe and each fitting after the exterior coating has hardened.
4. Bedding and Backfill–Sanitary Sewers
   The following section provides the minimum requirements for the bedding of pipe and the backfilling of the trench.
   a. Bedding–Sanitary Sewers
      1. Trenching where the bottom of the trench is of undesirable material, an additional six(6) inches of trench bottom shall be excavated and a stable foundation shall be constructed using compacted No. 2 crushed stone.
      2. All sanitary sewer pipe shall be laid to the lines and grade shown on the approved design plans unless otherwise approved by the department.
      3. Bedding material shall be compacted No. 8 crushed stone or No. 8 fractured face aggregate and shall be placed the trench bottom such that after the pipe has been in placed thereon, imbedded to grade and aligned, there remains a 4-inch minimum depth of material below the pipe barrel and a minimum of 3-inches below the bell.
      4. The bell holes shall be excavated so that the entire pipe barrel rests on the bedding. The following presents the bedding requirements for each pipe classification:
   b. Flexible Pipe: PVC Pipe
      1. No. 8 crushed stone or No. 8 fractured face aggregate shall be placed around the sides of the pipe up to the sides of the pipe to the springline(1/2 the outside diameter). The material shall be shovel sliced or otherwise carefully placed and "walked" or hand tamped in to ensure compaction of the haunch area and complete filling of all voids. From the springtime to twelve(12) inches above the crown of the pipe, bedding shall be added in six(6) lifts "walked" in for compaction. Backfilling of the remainder of the trench shall be as specified in the section
   c. Semi-Rigid Pipe: Ductile Iron Pipe
      1. No. 8 crushed stone or No. 8 fractured face aggregate shall be placed around the sides of the pipe up to the springline (1/2 the outside diameter). This material shall be shovel sliced or otherwise carefully place and "walked" or hand tamped in to ensure compaction of the haunch area and complete filling of all voids.
      2. From springline to six(6) inches, of 1/2 the outside diameter above the top of the pipe, whichever is larger, bedding shall be added in six(6) inch lifts "walked" in for compaction.
      3. Backfilling of the remainder of the trench shall be a specified later in the section.
   d. Backfilling Sanitary Sewers
      1. Backfill Materials
         a. The following materials shall be used to backfill the trenches in accordance with and in the manner indicated by the requirements specified herein:

F. (CONTINUED)

      Class 1 Angular, six(6) to forty(40) millimeters(1/4 to 1 1/2 inch) graded stone such as crushed stone.

      Class 2 Course sands and gravel with maximum particle size forth (40) millimeters (1 1/2 inch), including variously graded sands and gravel containing small percentage of fines, generally granular and non-cohesive, either wet or dry. Soil types GW, GP, SW and SP are included in this class.

      Class 3 Fine sand and clay gravel, including fine sands, sand-clay mixtures and gravel-clay mixtures. Soil types GM, GC, SM and SC are included in this class.

      Class 4 Silt, silty clays and clays, including silts of medium to high plasticity and liquid limits. Soil types MH, ML, CH, and CL are included in this class. These materials are not recommended for bedding.

   b. Backfill Around Pipe (bedding): Bedding and backfill materials shall be agreed upon prior to construction by the Engineer and the Contractor. Sample will be obtained and kept at the Engineer's office. No significant deviation from this material will be permitted for use without authorization by the Engineer and the Department.
   c. The term "select fill" shall mean the use of Class 2 or 3 backfill materials as described above.
   e. Areas Subject to Vehicular Traffic
      1. In areas under proposed or existing paved roads or within five feet of pavement, sidewalks, curbs, gutters or similar structures, granular backfill material complying with the requirements of the Indiana Department of Transportation Standard Specifications, latest Edition, as revised, shall be used.
      2. The material shall be placed in uniform layers not six(6) inches, loose measurement. Within three(3) feet of the sanitary sewer pipe the backfill material shall be thoroughly and uniformly compacted with hand held mechanical tampers. The remaining backfill material shall be compacted with mechanical tampers. A minimum compaction of 95% percent Standard Proctor Density shall be achieved within the backfill material.
      3. Jetting or flooding of the backfill or other alternative compaction methods and materials shall not be used without the approval of the city Department of Sanitation or Indiana Department of Transportation, dependent upon jurisdictional authority.
5. Workmanship
   a. Laying of Pipe in Cold Weather
      1. The Engineer reserves the right to order pipe installation discontinued wherever, in our opinion. There is danger of the quality of work being impaired because of cold weather. The Contractor shall be responsible for heating the pipe jointing material so as to prevent freezing of joints.
      2. Do not lay any pipe on frozen ground. No flexible or semi-rigid pipe shall be laid when the air temperature is less than 32 F unless proper precautions per the manufacturer's recommendations are taken by the Contractor and the method is approved by the Engineer and Department.
      3. When pipes with rubber gaskets or resilient-type are to be laid in cold weather, sufficiently warm the gasket or joint material so as to facilitate making a proper joint.
   b. Abandoned Sewers
      1. Sewers and storm water drains which are to be abandoned shall be bulkheaded with mortar and an eight(8) inch thick brick wall. Sewers, storm water drains, and sewer structures which are to be abandoned in place shall be filled with Sand or Cellular Concrete and plugged, unless otherwise indicated on the Plans.
      2. Service shall be maintained is such sewers and drains until the Department shall order bulkheads placed. No timber bulkheads shall be allowed. All castings on such abandoned structures are the property of the Department and shall be salvaged by the Contractor and delivered as directed. Unless otherwise specified, all abandoned manholes, catch basins, and inlets shall be removed to a depth of three(3) feet below the proposed or established grade or existing street grade, whichever is lower.
   c. Dewatering and Control of Surface Water:
      1. Where groundwater is encountered, the Contractor shall make every effort necessary to secure a dry trench bottom before laying pipe. The Contractor shall provide, install and operate sufficient trenches, sumps, pumps, hose, piping, wellpoints, etc.., necessary to depress and maintain the groundwater level below the base of the excavation. If the Contractor is unable to remove the standing water in the trench, the Contractor shall over-excavate the proposed bottom grade of the sewer bedding,and place not less than three(3) inches of class No. 2 crushed stone (Indiana Department of Transportation aggregate classification) in the over-excavated area.
      2. The Contractor and/or Owner shall be liable for all lawsuits which may arise as a result of the Contractor's dewatering efforts.
      3. The Contractor shall keep the site free of surface water at all times and shall install drainage ditches, dikes, pumps and perform other work necessary to divert or remove rainfall and other accumulation of surface water and/or groundwater shall be performed in a manner which will prevent the accumulation of water within the construction area.
      4. UNDER NO CIRCUMSTANCES SHALL SURFACE WATER AND/OR GROUNDWATER BE DISCHARGED TO, DISPOSED OF OR ALLOWED TO FLOW INTO THE CITY'S SANITARY SEWER SYSTEM.
   d. Trenching
      1. The width of the trench at and below the top of the sanitary sewer shall be only as wide as is necessary for proper installation and backfilling, and consistent with safety requirements. The minimum width of trench for sanitary sewers, including force mains, 42-inches in diameter and less shall be 1.25 times the outside diameter (O.D.) plus 12-inches:

         Minimum Trench Width (inches)= 1.25 (O.D.)+12

      1. The minimum trench width for sanitary sewers larger than 42-inches in diameter shall be determined on a case by case basis by the Engineer and approved by the department.
      2. The design plans and specifications submitted to the department for review, approval and issuance of a construction permit shall include a detailed trench drawing.
      3. The design of the sewer pipe and structures is predicated upon the width of trench indicated above and, should these limits be exceeded, the Contractor shall be responsible for the provision and installation of such remedial measures as may be required by the Engineer and/or the Department.
      4. Bell holes shall be excavated for bell and spigot pipe mechanical joint pipe, so that the entire barrel of the pipe shall rest on the bedding.
      5. The pipe trench shall not be excavated more than one hundred(100) feet in advance of pipe laying.
      6. Whenever pipe trenches are excavated below the designed bedding bottom, the Contractor shall fill the over-excavated with mechanically compacted No. 8 (1/4) inch to 3/4 inch) crushed stone or No. 8 fractured face aggregate.
      7. All rock, boulders and stones 6-inches in diameter and larger encountered in trenches shall be removed. Boulders or rocks are not to be used for trench backfill.
      8. In cases where material is deposited along open trenches, the material shall be placed so that no damage will result to the work or adjacent property as a result of rain or other surface wash.

F. (CONTINUED)

      9. If the bottom of the trench is of undesirable material, an additional six(6) inches of trench bottom shall be excavated and filled with Class "2" crushed stone and compacted using a hand held mechanical tamper. Where the distance to stable ground is excessive, the Engineer shall order in writing other types of foundation as he deems necessary subject to the approval of the Department.
      10. Remove any rock(s) encountered within six(6) inches below the barrel surface of the pipe, replace with No. 8 crushed stone or No. 8 fractured face aggregate and compact.
   e. Trench Box Pulling and Sheeting
      1. When required by the Occupational Safety and Health Act (OSHA) to protect life, property, or the work, sheet and brace all open cut trenches in accordance with CFR 1926. Upon completion of the work, all temporary forms, shores, and bracing shall be removed. All vacancies or voids by the sheeting while being withdrawn, shall be carefully filled with bedding material.
      2. The Contractor shall employ adequate safeguards to prevent movement of the pipe joint. If any movement should occur, the Contractor shall reinstall the pipe.
      3. Any damage to pavement or other structures due to sheeting , shoring, or bracing shall be repaired by the Contractor at his own expense.
      4. Sheeting and bracing which is to remain place shall be cut off at the elevation of 1.5 feet above the top of the sewer pipe.
   f. Line and Grade
      1. The Contractor shall furnish and set all line and grade stakes (HUB) and stakes for bench marks. The bench marks shall be set in strategic locations of the project in order to facilitate the Contractor's installation of the line and grade stakes (HUB) for each pipeline. Only the laser method shall be used to set the grade of the pipeline. Any other method must first be approved in writing by the Department. The Contractor shall constantly check line and grade of the laser beam and the pipe.
      2. Installation of Sanitary Sewers: Suitable tools and equipment shall be used for the safe and convenient handling and laying of pipe. Great care shall be taken to prevent pipe coating or wrappings from being damaged. Carefully examine all pipe for cracks and other defects.
      3. No pipe or fittings shall be laid which are know to be defective. If pipe or fittings are discovered to be cracked, broken or defective after being laid, they shall be removed and replaced with ground material.
      4. Thoroughly clean all pipe and fittings before installation. All pipe and appurtenances should be kept clean until accepted and completed work.
      5. All field-cutting shall be done in a neat, trim manner using a hand or power saw and the cut end shall be beveled using a file or wheel to produce a smooth bevel of approximately 15 and be a minimum depth of one third the pipe wall thickness. Field cut pipe will only be allowed to be installed at manholes, at prefabricated trees and wyes, and at the connection of new sanitary sewer to existing sanitary sewer.
      6. NOTE: Only smooth exterior pipe shall be used at manhole connections.
   g. Point of Commencement and Direction of Laying
      1. The point of commencement for laying of sewer pipe shall be the lowest point in the proposed sewer line. Lay the pipe with the bell end of bell and spigot pipe or with the receiving groove end of tongue and groove pipe pointing upgrade. Any other procedure shall be followed only with permission of the Department.
      2. Lay each pipe on an even firm bed as specified so that no uneven strain will come to any part of the pipe. Particular care shall be exercised to prevent the pipes from bearing on the sockets. Dig all bell holes for bell and spigot pipe.
      3. Completely shove home all pipe (to the assembly mark.) On pipe of the tongue prove type thirty(30) inches and larger in diameter, pressure must be applied to the center of each pipe as it is laid by a winch and cable or other mechanical means.
      4. All connection fittings shall be sealed with watertight stopper.
      5. The Contractor shall extend the building wye lateral to the right-of-way and shall place a one(1) inch cast ironlocator rod or magnetic locator tape above the end of the pipe to within three(3) feet of the ground surface. The purpose is to provide for case of location of the wye stub.
   h. Construction Bulkheads
      1. Before extending a sanitary sewer, the Contractor shall provide a watertight bulkhead in the existing sewer immediately downstream of the point of connection. This bulkhead shall be left in place until the new sanitary sewer has been cleaned of all accumulated water and debris and accepted by the Department.
      2. During all intermissions in construction of the sanitary sewer pipe, the open face of the last pipe laid shalbe plugged, covered or bulkhead so as to prevent sand, water, earth or other materials from entering the pipe.
      3. Whenever pipe and special castings are required to be cut, the cutting shall be done by skilled workmen inmuch manner as to leave a smooth end at right angles to the axis of the pipe without damage to the pipe casting or cement lining. CUTTING TORCHES SHALL NOT BE USED.
   i. RELATIONSHIP TO WATER MAINS
      1. Horizontal Separation
         a. Sewers shall be laid at least 10 feet (3.0 m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. In cases where it is not practical to maintain a ten foot separation, the appropriate reviewing agency may allow deviation on a case-by-case basis, if supported by data from the design engineer such deviation may allow installation of the sewer closest to the water main, provided that the water that the water main is in a separate trench or on an undisturbed earth shelf located on one side of the sewer and at an elevation so the bottom of the water main is at least 18 inches (46 cm) above the top of the sewer.
      2. Crossings
         a. Sewer crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main.
      3. Special Conditions
         a. when it is impossible to obtain proper horizontal and vertical separation is stipulated above, the sewer shall be designed and constructed equal to water pipe, and shall be pressure tested to assure watertightness prior to backfilling.
   j. Testing Gravity Sanitary Sewers
      1. General
         a. The contractor shall bear the complete cost and supply all equipment necessary to preform the test required.
         b. All test shall be conducted under the observation of the Department's Observer. It shall be the Contractor's resonsibility to schedule testing with the Observer.
         c. Certifications: The Contractor upon request shall furnish the department with certified reports stating that inspection and specified test have been made and that the results thereof comply with the applicable ANSI Specifications and these standards for each.

F. (CONTINUED)

      2. Infiltration/Exfiltration Test
         a. Once constructed, all sanitary sewers and manholes watertight and free from leakage. The rate of infiltration into the sanitary sewr system between any two adjacent manholes or the entric system shall not be in excess of 100 gallons per inch of pipe diameter per mile per day (100 gpd/in/mi). The Contractor shall be required to repair all visible leaks to satisfaction of the Department, even if the infiltration requirements are met.
         b. Any leakage found during the infiltration test shall be corrected by the Contractor at his expense. The method of repair shall be per the approval of the Department; however, grouting of the joint or crack to repair the leakage shall not be permitted. If the defective potion of the sanitary sewer cannot be located, the Contractor shall remove and reconstruct as much of the work as is necessary to obtain a system that passes infiltration requirements.
      3. Deflection Test
         a. All gravity sanitary sewers constructed of flexible pipe (PVC) shall be mandrel tested no sooner than thirty (30) days after installation. The deflection limit is 5% of the inside diameter of the pipe. Mandrel must be pulled through by hand with no mechanical device. Any failed section of pipe shall be reinstalled by the Contractor at no cost to the owner.
      4. Low Presure Air Test (Gravity Sewer)
         a. All gravity sanitary sewers shall be tested for infiltration by means of a low pressure air test. A minimum of 5 p.s.i. must be maintained in the pipe for a period of no less than 5 minutes

REVISION

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TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER
Trent A Baxter
CERTIFIED BY:

Dunkin'
1095 Market Street (Highway 3)
Charlestown, Indiana 47111

General Notes

Job No.	Date Stamped
25002	05/02/2025
Drawn By: caw	Checked By: tab
Scale: 1"= 20.0'	

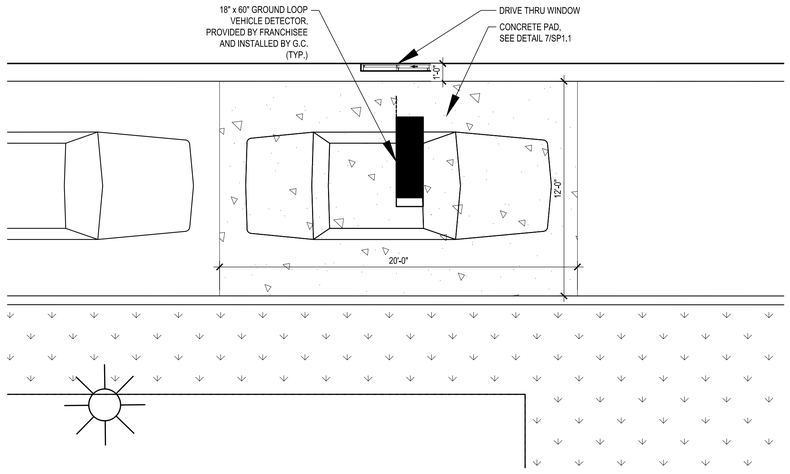
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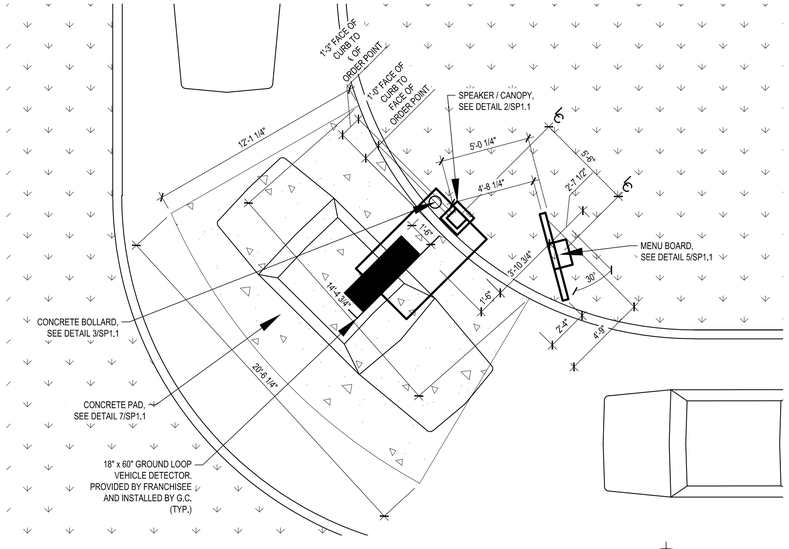
SHEET TITLE:

C700

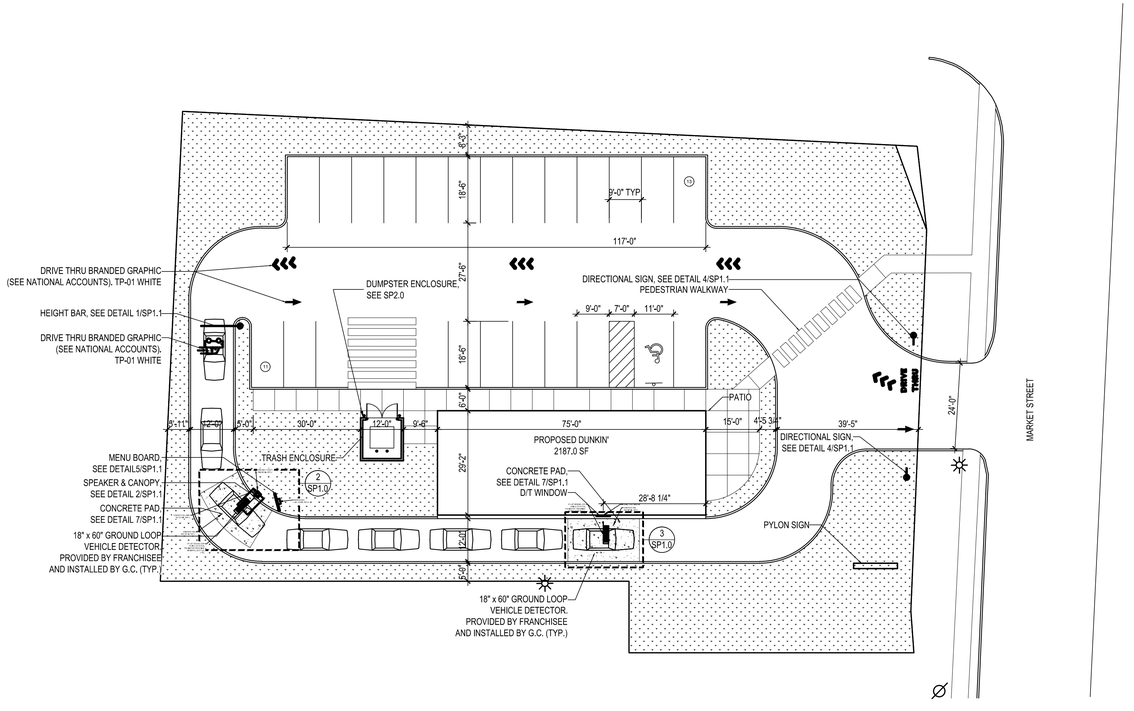
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2 D/T MENU LAYOUT
SCALE: 1/4" = 1'-0"



2 D/T MENU LAYOUT
SCALE: 1/4" = 1'-0"



1 SITE PLAN
SCALE: 1" = 20'-0"

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DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

ARCHITECT

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REGISTERED ARCHITECT No.11100072 STATE OF IND. ANA.

EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE.

SITE PLAN & NOTES

SHEET NO.

SP1.0

Kolbrook Job No.	1502.236	Consultant Job No.	-

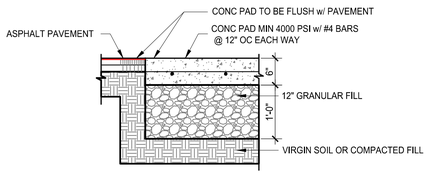
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GENERAL NOTES

- DETAILS SHOWN FOR REFERENCE ONLY. TO BE PERMITTED UNDER SEPARATE COVER BY SELECTED SIGNAGE SUB-CONTRACTOR.
- SITE ELEMENTS TO BE PROVIDED BY OWNER 'S CONSOLIDATOR: DIRECTIONALS, HEIGHT LIMIT BAR, MENU BOARD AND SPEAKER CANOPY AND /MONUMENT SIGN.
- VEHICLE LOOPS TO BE PROVIDED BY OWNER AND INSTALLED BY G.C.
- G.C. OR SIGNAGE SUB-CONTRACTOR TO INSTALL FOUNDATION. THIS TO BE CONFIRMED WITH OWNER.
- ELECTRICAL CONDUIT AND WIRE TO BE PROVIDED AND INSTALLED BY GC.
- ALL UNDERGROUND CONDUIT SHALL BE PVC. PROVIDE STEEL SLEEVE WHEN PASSING THROUGH FOUNDATION WALL, CONCRETE FLOOR. EXTEND 6" ABOVE THE FINISHED FLOOR AND PROVIDE PROTECTIVE GROMMET.
- ALL CONDUIT SHALL BE BURIED AT LEAST 18" BELOW FINISHED GRADE
- ALL INSTALLED CONDUIT SHALL BE PROVIDED WITH A PULL STRING.
- ALL LOOP CONDUITS SHALL ROUTE BACK TO DRIVE THRU TIMER MONITOR ADJACENT TO DRIVE THRU WINDOW.
- MENU BOARD LOW VOLTAGE DATA ROUTES BACK TO OFFICE.

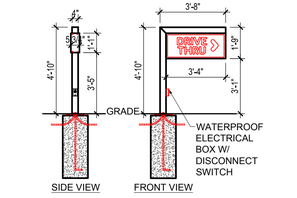
CONDUITS- POWER/DATA TYPICAL REQUIREMENTS:

- MENU BOARD
  - (1) 1" POWER
  - (1) 1" DATA
  - (1) 1" SPARE FOR FUTURE WITH PULL STRING
- ORDER/SPEAKER CANOPY
  - (1) 1" POWER
  - (1) 1" DATA
  - (1) 1" VOICE DATA
  - (1) 1" SPARE FOR FUTURE WITH PULL STRING
- DIRECTIONAL SIGN
  - (1) 1" POWER
- POLES FOR NEW SITE LIGHTS
  - COPPER LIGHTING PKL-4 SSS SQUARE STRAIGHT STEEL
  - SEE PHOTOMETRIC PLAN FOR MORE INFORMATION.



7 CONCRETE PAD DETAIL

SCALE: 3/4" = 1'-0"





SIGN FACES

COLORS:

PANTONE 7540 C GRAY
PANTONE 3564 C ORANGE
PANTONE 7635 C PINK
3M 220-41 GRAY

GENERAL SPECIFICATIONS:

MATERIALS:
6" x 1" x .063" ALUMINUM EXTRUSION FRAME; 1" ALUMINUM FACE RETAINER; 4" x 4" x .075" SQ. TUBE SUPPORT; FLAT POLYCARBONATE FACES

CABINET DEPTH:
6"

FACES:
.118 FLAT CLEAR SOLAR GRADE POLYCARBONATE W/ 2ND SURFACE DECORATION:
- PMS 3564C ORANGE
- PMS 7635C PINK
- 3M 220-41 GRAY (FACE OPTION P ONLY)
- BACKGROUND IS 403 TRANSLUCENT WHITE BACK-SPRAY

CABINET COLOR:
PAINTED PMS 7540C GRAY; IINTERIOR FINISH TO BE REFLECTIVE WHITE

POLE AND TOP TRIM:
PAINTED PMS 3564C ORANGE

FONT:
DUNKIN' IS CUSTOM FONT
ALL OTHER COPY FACES IS DUNKIN' SANS MEDIUM

AREA SQUARED:
4.70 SQ. FT.

WIND LOAD:
STANDARD WIND LOAD - WIND SPEED / 35 PSF

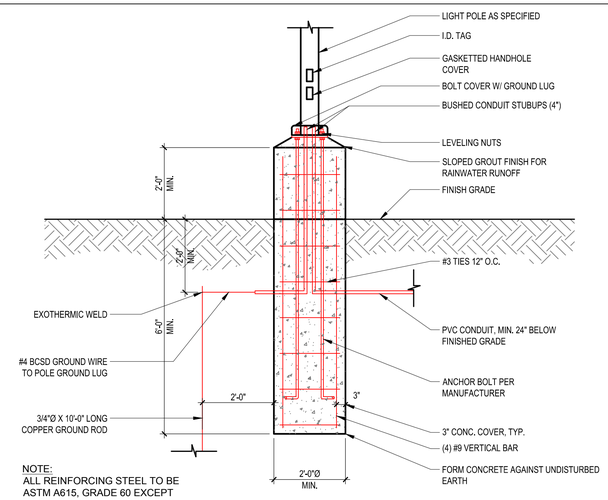
INSTALLATION:

DIRECT BURY

ELECTRICAL:

ILLUMINATION TO BE WHITE LEDS
1) 20A/120V CIRCUIT
DISCONNECTED SWITCH LOCATED ON POLE AT ELECTRICAL BOX

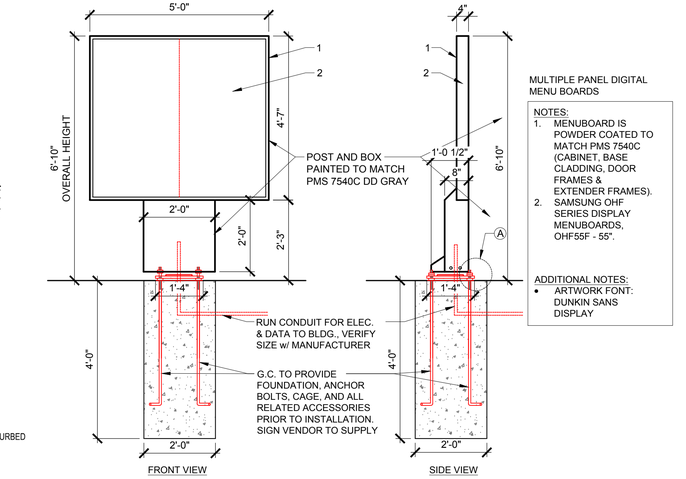
UL LISTED



NOTE:
ALL REINFORCING STEEL TO BE ASTM A615, GRADE 60 EXCEPT TIES, TIES SHALL BE GRADE 40.

6 LIGHT POLE DETAIL

SCALE: 1/2" = 1'-0"



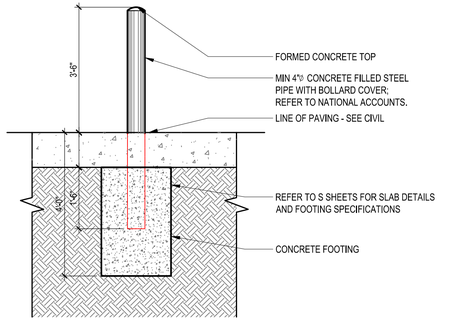
MULTIPLE PANEL DIGITAL MENU BOARDS

NOTES:
1. MENUBOARD IS POWDER COATED TO MATCH PMS 7540C (CABINET, BASE CLADDING, DOOR FRAMES & EXTENDER FRAMES).
2. SAMSUNG OHF SERIES DISPLAY MENUBOARDS, OHF55F - 55".

ADDITIONAL NOTES:
- ARTWORK FONT: DUNKIN SANS DISPLAY

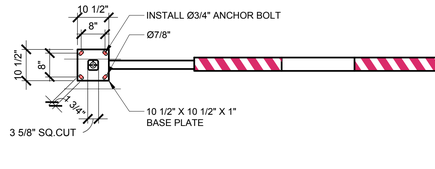
5 DIGITAL MENU BOARD DETAIL

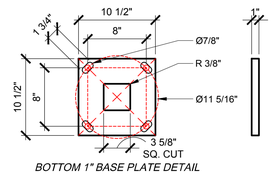
SCALE: 1/2" = 1'-0"



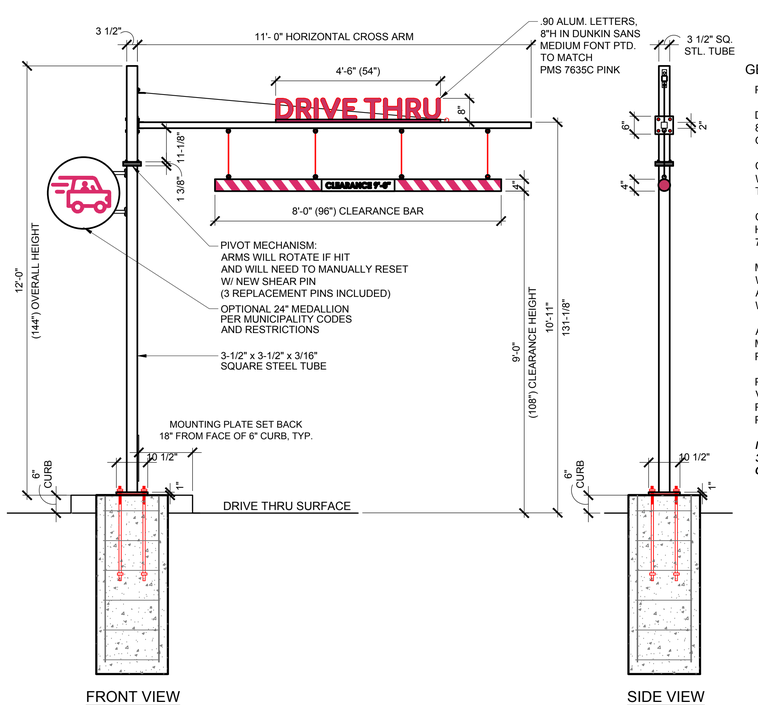
3 BOLLARD DETAIL

SCALE: 1/2" = 1'-0"





BOTTOM 1" BASE PLATE DETAIL



GENERAL SPECIFICATIONS:

POLE & ARM: PTD. SW 7063 NEBULOUS WHITE

DRIVE THRU LETTERS: .090 ALUMINUM LETTERS, 8"H PTD. TO MATCH PMS 7635C PINK, PINK GLOSS FINISH

CLEARANCE BARS: COVERED WITH 3M #280-10 WHITE REFLECTIVE VINYL; COPY AND STRIPING TO MATCH PMS 7635C PINK

CHEVRON ARROWS: .090 ALUM. MOUNTED TO HORIZONTAL ARM AND PAINTED TO MATCH PMS 7635C PINK

MEDALLION: OPTIONAL 24" ROUND MEDALLION WITH "SPEEDY CAR ICON" AND REMOVABLE / ADJUSTABLE MOUNTING BRACKETS; PAINTED WHITE; CAR ICON TO MATCH PMS 7635C PINK

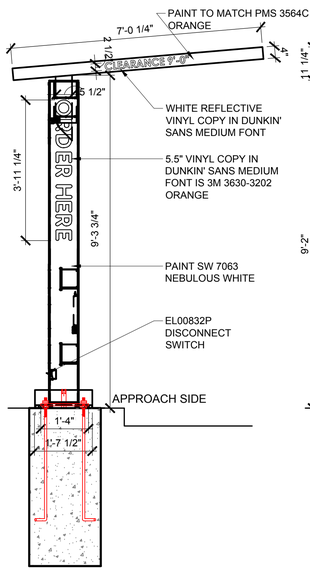
ADDITIONAL NOTES: FONT IS DUNKIN' SANS MEDIUM CLEARANCE MAY VARY PER SITE REQUIREMENTS

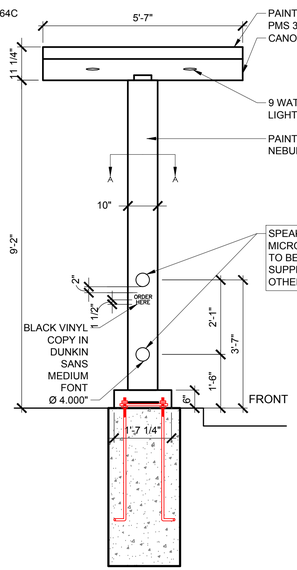
PIVOT T-BAR: ARMS WILL ROTATE IF STRUCK BY VEHICLE AND WILL NEED TO BE MANUALLY RESET W/ NEW SHEAR PIN (3 REPLACEMENT PINS INCLUDED)

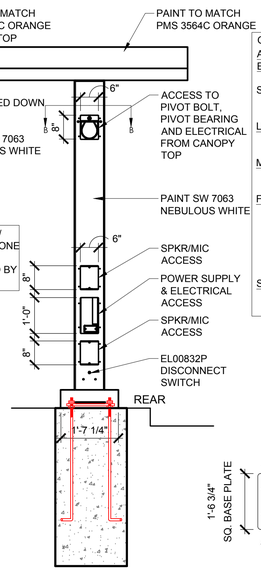
MAXIMUM DESIGN WIND LOAD: 35PSF WIND SPEED 3-SECOND GUST-EXPOSURE C

4 DIRECTIONAL SIGN DETAILS

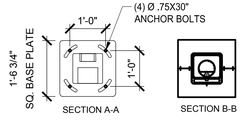
SCALE: 1/4" = 1'-0"







GENERAL NOTES:
APPROX. WEIGHT: 715 LBS.
ELECTRICAL SPECS:
QTY. (1) 12 VDC 60 WATT POWER SUPPLY
TOTAL CONNECTED LOAD: 0.9 AMPS @ 120VAC 50/60HZ
LIGHTING:
QTY. (2) 12VDC 9W DOWNLIGHTS (3000K WARM WHITE)
MATERIALS:
3003-H14 ALUMINUM SHEET
ASATM A36 STEEL SHAPES
FINISH:
EXPOSED SURFACES OF CANOPY TOP POWDER COATED TO MATCH PMS165C
EXPOSED SURFACES OF COLUMN POWDER COATED 303-00293 PWDRCT, NEB WHITE AAMA 2604 APPROVED LOGOS AND COLORS
SERVICE:
REMOVE ACCESS COVERS ON BACK OF UNIT



2 ORDER CANOPY DETAIL

SCALE: 1/2" = 1'-0"

1 SINGLE HEIGHT LIMITATION BAR

SCALE: 1/2" = 1'-0"

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DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

ARCHITECT

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REGISTERED ARCHITECT No.1110007? STATE OF ILLINOIS

EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE:

SITE DETAILS

SHEET NO.

SP1.1

Kolbrook Job No.	1502.236	Consultant Job No.	-

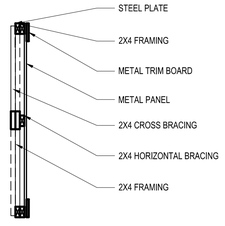
SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS

GENERAL NOTES

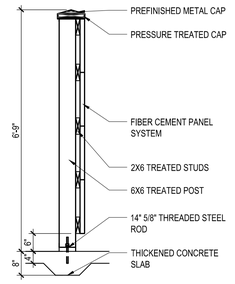
- WALL SIGNS SHOWN FOR REFERENCE ONLY. SIGNAGE TO BE SUBMITTED UNDER SEPARATE COVER BY SELECTED SIGNAGE SUB-CONTRACTOR.
- ELEVATIONS DRAWN TO REPRESENT FIBER CEMENT PANEL CLADDING SYSTEM BY NICHIHA (PP). IF CONTRACTOR TO USE FCP BY JAMES HARDIE (PS-LP), ARCHITECT TO BE NOTIFIED.

MATERIALS & FINISHES

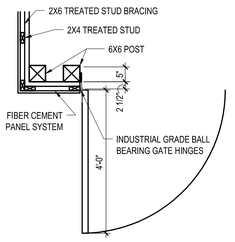
CODE	COLOR	DESCRIPTION	NOTES
EXTERIOR METAL TRIM			
TR-01	PINK	METAL ACCENT CHANNEL	USED AT TOWER ELEMENT
TR-02	OFF WHITE		
TR-04	PS-03	OUTSIDE CORNER TRIM	
TR-05	ANNODIZED	BOTTOM STARTER TRIM	
TR-06	PS-03	VERTICAL TERMINATION TRIM	
TR-07		TOP TRIM	
TR-08	ANODIZED	VERTICAL SURROUND TRIM	FACTORY FINISH CLEAR ANODIZED
TR-09		HORIZONTAL SURROUND TRIM	
TR-10		OUTSIDE CORNER SURROUND	
EXTERIOR FIBER-CEMENT SIDING AND PANELS			
PS-01	GRAY	FIBER CEMENT PANEL	AGED PEWTER
PS-03	WOOD	FIBER CEMENT SIDING	WOODTONE
EXTERIOR FIBER-CEMENT CLADDING			
PP-01	GRAY	FIBER CEMENT CLADDING	TUFFBLOCK PEWTER
PP-02	CHARCOAL		TUFFBLOCK STEEL
PP-04	OFF WHITE		MIRAIA SNOW
EXTERIOR METAL PAINTED COATINGS			
PC-02	CHARCOAL	SATIN SHEEN	IRON ORE
PC-04	OFF WHITE		NEBULOUS WHITE
PC-13	ORANGE		DD ORANGE
EXTERIOR WALL PAINT			
PTE-01	GRAY	FLAT SHEEN	GAUNTLET GRAY
PTE-02	CHARCOAL	FLAT SHEEN	IRON ORE



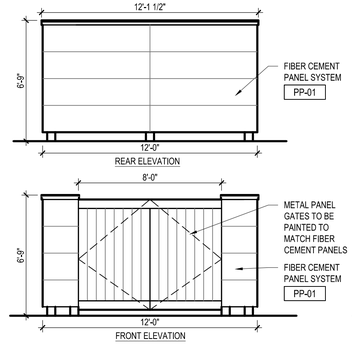
6 GATE LEAF SECTION
SCALE: 1/2" = 1'-0"



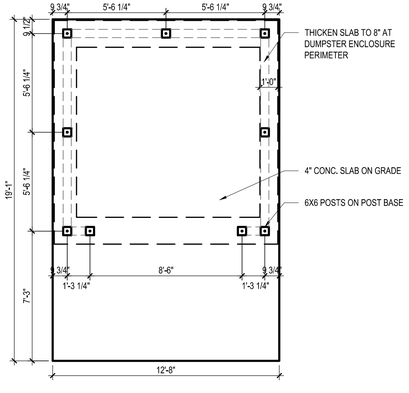
5 TYP. SECTION
SCALE: 1/2" = 1'-0"



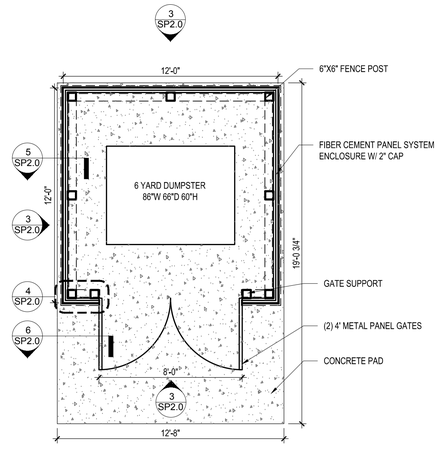
4 GATE DETAIL
SCALE: 1/2" = 1'-0"



3 TRASH ENCLOSURE ELEVATIONS
SCALE: 1/4" = 1'-0"



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



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

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CIVIL ENGINEER

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PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE:

TRASH ENCLOSURE PLANS & DETAILS

SHEET NO.

SP2.0

Kolbrook Job No.	1502.236	Consultant Job No.	-

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GENERAL STRUCTURAL NOTES

1.0 ALL CONSTRUCTION SHALL CONFORM TO THE INDIANA BUILDING CODES. REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST STANDARD OR CODE ADOPTED AND PUBLISHED.

1.1 THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK OR FABRICATION. NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES. ALL WORK COMPLETED THAT DOES NOT CONFORM TO THE STRUCTURAL DRAWINGS SHALL BE CONSIDERED AT RISK.

1.2 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, AND TEMPORARY SUPPORTS. THE STRUCTURAL ELEMENTS ARE NOT STABLE UNTIL THE STRUCTURE IS COMPLETE.

1.3 ALL WORK SHALL CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL LAWS.

1.4 THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO DIGGING, BORING OR EXCAVATING SOILS OR DRILLING, BORING OR CUTTING CONCRETE.

1.5 DIMENSIONS ON STRUCTURAL DRAWINGS ARE TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AS WELL AS AGAINST FIELD CONDITIONS BY CONTRACTORS.

1.6 UNLESS NOTED OTHERWISE, DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR CONDITIONS.

1.7 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, HANGERS, SLEEVES, DUCTWORK, PADS, AND ANCHOR RODS THAT ARE REQUIRED BY MECHANICAL EQUIPMENT.

1.8 IF DISCREPANCIES APPEAR ON THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT BEFORE BIDDING. IF THE CONTRACTOR FAILS TO MAKE SUCH REQUEST, IT IS PRESUMED THAT BOTH PROVISIONS WERE INCLUDED IN THE BID AND THE ARCHITECT SHALL DETERMINE WHICH OF THE CONFLICTING REQUIREMENTS SHALL GOVERN. THE CONTRACTOR SHALL PERFORM THE WORK AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH THE ARCHITECT'S DETERMINATION.

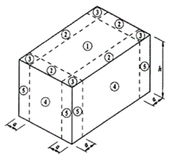
1.9 REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

STRUCTURAL DESIGN CRITERIA

LOCATION	CHARLESTOWN, IN
RISK CATEGORY	II
DEAD LOADS:	
DEAD LOAD INCLUDING ROOFING/INSULATION	10 PSF
COLLATERAL DEAD LOAD (BOTTOM CHORD)	10 PSF
LIVE LOAD:	
ROOF LIVE LOAD	20 PSF
GROUND SNOW LOAD (Pg)	25 PSF
SNOW IMPORTANCE FACTOR (Is)	1.0
WIND DESIGN:	
ULTIMATE WIND SPEED, 3 SECOND GUST	V = 115 MPH
IMPORTANCE FACTOR	I = 1.0
EXPOSURE	B

COMPONENT & CLADDING DESIGN WIND PRESSURE

	ZONE	TRIBUTARY AREA (FT^2)		
		A=10	A=50	A=100
WALLS	4	+22,-24	+20,-22	+20,-21
	5	+22,-30	+20,-25	+19,-23
ROOF	1	+11,-24	+10,-24	+9,-23
	2	+11,-41	+10,-32	+9,-27
	3	+11,-61	+10,-38	+9,-27



ALL PRESSURES ARE PROVIDED IN PSF
"+" INDICATES POSITIVE PRESSURE &
"-" INDICATES NEGATIVE PRESSURE (SUCTION)

SEISMIC DESIGN:

IMPORTANCE FACTOR (Ie)	1.0
SITE CLASS	D
SEISMIC DESIGN CATEGORY	B
S_s	0.131
S_1	0.068
S_{DS}	0.139
S_{D1}	0.109

SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAME (WOOD) SHEATHED WALLS
R 6.5
SEISMIC RESPONSE COEFFICIENT (C_s) 0.022
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION DESIGN IS BASED ON THE FOLLOWING:
ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF (CONTRACTOR TO VERIFY IN FIELD.)
THE FOUNDATION IS DESIGNED BASED ON PRESUMPTIVE ALLOWABLE BEARING PRESSURE AS PER IBC TABLE 1806.2.

DEFLECTION CRITERIA:

ROOF FRAMING:	
LIVE LOAD DEFLECTION	L/360
TOTAL LOAD DEFLECTION	L/240

FOUNDATION & SLAB ON GRADE

2.0 A GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE SHALL INSPECT THE CONDITION AND ASSURE THE ADEQUACY OF ALL SUB GRADES, FILLS AND BACK FILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, AND WALLS. KOLBROOK DESIGN, INC., SHALL BE NOTIFIED IMMEDIATELY OF ANY NON-CONFORMING WORK.

2.1 WHEN FOOTING STEPS ARE REQUIRED, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.

2.2 PROVIDE 6 MIL MINIMUM POLYETHYLENE VAPOR BARRIER BENEATH FLOOR SLAB. LOCATE CONSTRUCTION JOINTS AT CONTROL JOINTS TO MAXIMUM EXTENT POSSIBLE.

2.3 BACKFILL SHALL NOT BE PLACED AGAINST RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED.

2.4 CONTROL JOINTS SHALL BE SAWCUT AFTER CONCRETE SURFACE HAS HARDENED ENOUGH SO THAT IT WILL NOT BE EASILY MARRED OR RAVELED. THE IDEAL TIME TO SAWCUT TYPICALLY OCCURS WITHIN 4 TO 12 HOURS AFTER CONCRETE FINISHING HAS BEEN COMPLETED. SAWCUT TIMING DEPENDS ON NUMEROUS FACTORS SUCH AS WEATHER CONDITION AND IS BEST DETERMINED ONSITE. TRIAL SAWCUTS MAYBE PERFORMED TO DETERMINE IF CONCRETE IS READY. SAWCUTTING TOO EARLY CAUSES RAVELING, OR THE DISLODGING OF AGGREGATE, WHICH RESULTS IN JOINT SPALLS. SAWCUTTING TOO LATE RESULTS IN UNCONTROLLED CRACKING. BEGIN SAWCUTTING AS SOON AS RAVELING STOPS DURING TRIAL CUTS.

2.5 ALL SOIL SUPPORTED FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SOIL SUBGRADE OR ON THOROUGHLY TESTED AND APPROVED FILL BY GEOTECHNICAL ENGINEER. THE FOOTING ELEVATIONS AND SOIL BEARING CAPACITIES AS SHOWN ON THE DRAWINGS ARE ESTIMATED. FINAL, EXACT ELEVATIONS AND SOIL BEARING CAPACITIES SHALL BE FIELD DETERMINED AND VERIFIED BY THE OWNER'S SOIL TESTING LABORATORY AND REVIEWED BY THE ARCHITECT/ENGINEER DURING CONSTRUCTION.

2.6 THE SOIL SUBGRADE FOR ALL FOOTINGS AND SLABS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S TESTING LABORATORY IMMEDIATELY PRIOR TO PLACING CONCRETE.

2.7 ALL FOOTING AND SLAB SUBGRADES, INCLUDING PIT SLABS, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR (ASTM D698) MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, AS REQUIRED.

2.8 ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACK FILL AREAS AND BACKFILLED WITH SELECT FILL, COMPACTED TO 98 PERCENT OF STANDARD PROCTOR (ASTM D698) MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.

2.9 DO NOT UNDERMINE EXISTING CONSTRUCTION.

2.10 PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WALLS.

2.11 NO MUD SLABS, FOOTINGS, OR SLABS SHALL BE PLACED ONTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.

2.12 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE. SUCH PROTECTION IS ADDITIONAL SCOPE.

2.13 THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.

2.14 ALL PERIMETER WALL AND COLUMN FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW FINISHED GRADE.

REINFORCED CONCRETE

3.0 ALL WORK SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," LATEST EDITION. DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," LATEST EDITION.

3.1 UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSION STRENGTHS:

FOUNDATIONS & WALLS EXPOSED TO FREEZE/THAW CYCLE	4500 PSI (NORMAL WEIGHT)
FOUNDATIONS & WALLS NOT EXPOSED TO FREEZE/THAW CYCLE	4000 PSI (NORMAL WEIGHT)
SLAB-ON-GRADE	4000 PSI (NORMAL WEIGHT)
ELEVATED SLABS	4000 PSI (LIGHTWEIGHT- 115 LB/CF MAXIMUM DENSITY)

3.2 THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND BE PROVIDED TO KP ENGINEERS, LLC OR OWNER UPON REQUEST. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY OF OBTAINING THE REQUIRED DESIGN STRENGTH.

3.3 USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

3.4 UNLESS NOTED OTHERWISE, SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN BY THE TESTING AGENCY NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS AND FOUNDATIONS. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD:

SLUMP:	ASTM C143
AIR CONTENT:	ASTM C173
COMPRESSIVE STRENGTH:	ASTM C39 (ONE CYLINDER AT 7 DAYS, 2 CYLINDERS AT 28 DAYS, AND ONE SPECIMEN HELD IN RESERVE)

3.5 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

3.6 WELDED WIRE FABRIC (MESH) SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS (ROLLS ARE NOT PERMITTED). LAP TWO SQUARES AT SPLICES.

3.7 TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS OR REBAR INTO WET CONCRETE IS NOT PERMITTED.

3.8 PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE CLASS "B" TENSION SPLICE UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH CLASS "B" TENSION SPLICES. UNLESS NOTED OTHERWISE, LAP LENGTHS EXPRESSED AS NUMBER OF BAR DIAMETERS SHALL BE AS FOLLOWS:

BAR SIZE	NORMAL WEIGHT CONCRETE, f'c (PSI)				
	CLASS	3000	4000	5000	6000
#6 OR SMALLER	A	44 DIAM	38 DIAM	34 DIAM	31 DIAM
	B	57 DIAM	49 DIAM	44 DIAM	40 DIAM
#7 OR GREATER	A	55 DIAM	47 DIAM	42 DIAM	39 DIAM
	B	71 DIAM	62 DIAM	55 DIAM	50 DIAM

REINFORCED CONCRETE CONT.

3.9 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH (NOT FORMED)	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS & WALLS	1 1/2"
BEAM STIRRUPS & COLUMN TIES	1 1/2"

3.10 DO NOT PLACE PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED STRUCTURAL DRAWINGS.

3.11 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

3.12 REINFORCING STEEL PLACEMENT SHALL BE INSPECTED IN ACCORDANCE WITH ACI 318, SECTION 1.3 BY A QUALIFIED OWNER'S REPRESENTATIVE.

3.13 NO SLAB SHALL HAVE COLD JOINTS IN A HORIZONTAL PLANE.

3.14 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, EMBEDDED PLATES, MASONRY ANCHORS, REGLETS, SLEEVES, DUCTWORK, PADS, AND ANCHOR RODS. THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH CONCRETE REINFORCEMENT LOCATION.

3.15 NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

3.16 EXPOSED EXTERNAL CONCRETE CORNERS SHALL BE CHAMFERED 3/4 INCHES, UNLESS SHOWN OR NOTED OTHERWISE.

3.17 ARRANGEMENT AND DETAILS FOR REINFORCEMENT, INCLUDING BAR SUPPORTS AND SPACERS, SHALL BE IN ACCORDANCE WITH THE "A.C.I. DETAILING MANUAL (ACI SP-66)," LATEST EDITION.

ABBREVIATIONS

&	=	AND
@	=	AT
ALT.	=	ALTERNATE
APPROX.	=	APPROXIMATE
BLDG.	=	BUILDING
BM.	=	BEAM
BSMNT.	=	BASEMENT
BTWN.	=	BETWEEN
B.O.S.	=	BOTTOM OF STEEL
BOT.	=	BOTTOM
CFMF	=	COLD FORMED METAL FRAMING
CFS	=	COLD-FORMED STEEL
C.J.	=	CONTROL OR CONSTRUCTION JOINT
CL	=	CENTER LINE
CLG	=	CEILING
CMU	=	CONCRETE MASONRY UNIT
COL.	=	COLUMN
CONC.	=	CONCRETE
CONT.	=	CONTINUOUS
CONST.	=	CONSTRUCTION
DTL.	=	DETAIL
DIA.	=	DIAMETER
DIM.	=	DIMENSION
DN.	=	DOWN
DR.	=	DOOR
DWG.	=	DRAWING
EA.	=	EACH
E.F.	=	EACH FACE
EL.	=	ELEVATION
EQ.	=	EQUAL
EQUIP.	=	EQUIPMENT
E.W.	=	EACH WAY
EXIST.	=	EXISTING
EXT.	=	EXTERIOR
F.D.	=	FLOOR DRAIN
F.F.	=	FINISH FLOOR
FL	=	FLOOR
FND.	=	FOUNDATION
F.O.	=	FACE OF
FT.	=	FOOT
GA.	=	GAUGE
GALV.	=	GALVANIZED
GYP. BD.	=	GYPSUM BOARD
HDR.	=	HEADER
HORIZ.	=	HORIZONTAL
HGT.	=	HEIGHT
I.D.	=	INSIDE DIAMETER
INSUL.	=	INSULATION
INT.	=	INTERIOR
JT.	=	JOINT
LG.	=	LONG
L.T.	=	LIGHT
L.W.	=	LONG WAY
MANUF.	=	MANUFACTURER
MAS.	=	MASONRY
MAX.	=	MAXIMUM
MECH.	=	MECHANICAL
MTL.	=	METAL
MIN.	=	MINIMUM
MISC.	=	MISCELLANEOUS
N.I.C.	=	NOT IN CONTRACT
NO.	=	NUMBER
NOM.	=	NOMINAL
N.T.S.	=	NOT TO SCALE
O.C.	=	ON CENTER
O.D.	=	OUTSIDE DIAMETER
OPNG.	=	OPENING
OPT.	=	OPTIONAL
PL.	=	PLATE
PLYWD.	=	PLYWOOD
QTY.	=	QUANTITY
RAD.	=	RADIUS
REINF.	=	REINFORCEMENT
REV.	=	REVISION
REQ'D.	=	REQUIRED
R.O.	=	ROUGH OPENING
SCHED.	=	SCHEDULE
SEC.	=	SECTION
S.F.	=	SQUARE FOOT
SHT.	=	SHEET
SIM.	=	SIMILAR
SPEC.	=	SPECIFICATION
SQ.	=	SQUARE
S.S.	=	STAINLESS STEEL
STD.	=	STANDARD
STL.	=	STEEL
STRUCT.	=	STRUCTURAL
S.W.	=	SHORT WAY
T&B	=	TOP & BOTTOM
THK.	=	THICK
THRU	=	THROUGH
T.O.F.	=	TOP OF FOOTING
T.O.P.	=	TOP OF PLATE
T.O.S.	=	TOP OF STEEL
T.O.SL.	=	TOP OF SLAB
TRT.	=	TREATED
TYP	=	TYPICAL
U.N.O	=	UNLESS NOTED OTHERWISE
VERT.	=	VERTICAL
V.I.F.	=	VERIFY IN FIELD
W/	=	WITH
WD.	=	WOOD
W/O	=	WITHOUT
WP.	=	WATERPROOF
WT.	=	WEIGHT
WWF.	=	WELDED WIRE FABRIC
WWM.	=	WELDED WIRE MESH

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EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE:

GENERAL NOTES

SHEET NO.

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Kolbrook Job No.	1502.236	Consultant Job No.	-

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WOOD NOTES

6.1 UNLESS NOTED OTHERWISE ALL WOOD CONSTRUCTION SHALL CONFORM TO CONVENTIONAL LIGHT-FRAME CONSTRUCTION PER THE 2012 INTERNATIONAL BUILDING CODE.

6.2 ALL SOLID SAWN LUMBER SHALL BE KILN DRIED GRADE NO. 2 (OR BETTER) SOUTHERN YELLOW PINE OR DOUGLAS FIR. (WOOD MOISTURE CONTENT MUST BE <19%)

6.3 PRESSURE TREATED LUMBER SHALL CONFORM TO THE AWPA AND SHALL BEAR THE QUALITY MARK OF AN ACCREDITED ALSC INSPECTION AGENCY. MINIMUM TREATING STANDARDS (RETENTION LBS./CU. FT) SHALL BE AS FOLLOWS:

APPLICATION	ACQ/ACZA	CA-B
ABOVE GROUND	0.25	0.10
GROUND/CONCRETE CONTACT	0.40	0.21
FRESH WATER IMMERSION	0.40	0.21
IN GROUND (STRUCTURAL)	0.60	0.31
SILL PLATES	0.25	0.10

6.4 DUE TO CORROSION REQUIREMENTS, ALL FASTENERS USED IN OR IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED STEEL OR STAINLESS STEEL OTHER TYPES OF PROTECTIVE FASTENER COATINGS MAY BE USED UPON ENGINEERING REVIEW AND APPROVAL.

6.5 UNLESS NOTED OTHERWISE, ALL LOAD-BEARING WALL STUDS SHALL BE 2x6 SOLID SAWN LUMBER WITH A MAXIMUM SPACING OF 16" O.C.

6.6 USE THREE STUDS (MINIMUM) IN EACH CORNER WITH TOP PLATES OVERLAPPING AT CORNERS AND BEARING WALLS. SILL PLATES OR ANY OTHER WOOD IN CONTACT WITH CONCRETE, SOIL OR MASONRY SHALL BE PRESSURE TREATED.

6.7 BUILT-UP STUD COLUMNS MUST BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER.

6.8 UNLESS NOTED OTHERWISE, ALL LOAD BEARING WALLS SHALL BE SHEATHED WITH MIN. 7/16" APA RATED SHEATHING, EXPOSURE 1, OSB OR PLYWOOD. WALL SHEATHING SHALL BE FASTENED WITH 8d COMMON NAILS WITH A MAXIMUM SPACING OF 4" O.C. AT EDGES AND 6" O.C. WITHIN THE FIELD. A DOUBLE ROW OF 8d COMMON NAILS WITH A MAXIMUM SPACING OF 4" O.C. SHALL BE USED AT TOP AND BOTTOM PANEL EDGES FOR UPLIFT RESISTANCE. ALL EDGES OF SHEATHING SHALL BE BLOCKED SOLID. CONTINUOUS SHEATHING SHALL BE PROVIDED FROM TOP PLATE TO SILL PLATE. USE APPROVED SHEATHING PANEL TENSION SPLICE AS REQUIRED.

6.9 UNLESS NOTED OTHERWISE, ROOF SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I. FOR ROOF SUPPORTS AT 24" O.C. USE 15/32" OSB OR PLYWOOD. FOR ROOF SUPPORTS @ 16" O.C. USE 7/16" OSB OR PLYWOOD. SHEATHING SHALL BE INSTALLED WITH THE LONG EDGES ACROSS A MINIMUM OF THREE SUPPORTING MEMBERS. SUPPORT AND STAGGER EDGES OF SHEATHING PARALLEL TO SUPPORTING MEMBERS. ROOF SHEATHING SHALL BE FASTENED WITH 8d COMMON NAILS WITH A MAXIMUM SPACING OF 6" O.C. AT EDGES AND 12" O.C. WITHIN THE FIELD. PANEL CLIPS SHALL BE INSTALLED IN ACCORDANCE WITH APA RECOMMENDATIONS.

6.10 UNLESS NOTED OTHERWISE, FLOOR SHEATHING SHALL BE APA RATED STURD-I-FLOOR, EXPOSURE I, TONGUE AND GROOVE PLYWOOD. FOR SUPPORTS AT 16" O.C. USE 19/32" THICK PANELS. FASTEN FLOOR SHEATHING WITH 8d RING- OR SCREW-SHANK NAILS WITH A MAXIMUM SPACING OF 6" O.C. AT EDGES AND 12" O.C. WITHIN THE FIELD. PANELS SHALL BE APA GLUED TO FLOOR SUPPORTS AND AT TONGUE AND GROOVE JOINTS WITH ADHESIVE CONFORMING TO PERFORMANCE SPECIFICATION APA AFG-01. AN 1/8" GAP SHALL BE LEFT BETWEEN ADJACENT PANELS AND THE END JOINTS SHALL BE SUPPORTED AND STAGGERED. SHEATHING SHALL BE INSTALLED WITH THE LONG EDGE ACROSS A MINIMUM OF THREE SUPPORTING MEMBERS. PROVIDE CONTINUOUS BLOCKING AT EDGES AND AROUND OPENINGS.

6.11 UNLESS NOTED OTHERWISE, DOOR AND WINDOW HEADERS SHALL FULLY BEAR ON JACK STUDS. KING STUDS SHALL EXTEND THE FULL HEIGHT OF WALL ON EACH SIDE OF OPENING.

6.12 BEARING & EXTERIOR WALL STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48" & SHALL BE NAILED WITH NOT LESS THAN (16) 16d FACE NAILS ON EACH SIDE OF JOINT. TOP PLATES SHALL BE A NOMINAL 2" IN DEPTH AND HAVE A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS.

6.13 SOLID 2x BLOCKING AND BANDBOARD SHALL BE PROVIDED AT SUPPORTS AND CANTILEVER ENDS OF ALL WOOD JOISTS.

6.14 ALL MANUFACTURED HARDWARE SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S SPECIFICATIONS.

6.15 GYPSUM WALLBOARD SHALL BE SECURED WITH A MAXIMUM FASTENER SPACING OF 6" O.C. AT EDGES AND 12" O.C. AT FIELD.

6.16 UNLESS NOTED OTHERWISE, FASTENING SHALL BE IN ACCORDANCE WITH IRC 2018 TABLE R602.3 FASTENER SCHEDULE FOR STRUCTURAL MEMBER.

6.17 ENGINEERED LUMBER MEMBERS SHALL BE MANUFACTURED UNDER A PROCESS BY NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPROPRIATE NER REPORT AND GLUED WITH A WATERPROOFING ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER.

LVL	FB=2600 PSI	E=1900 PSI	FV=285	NER-126
PSL	FB=2900 PSI	E=2000 PSI	FV=290	NER-292

6.18 WOOD IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER SHALL BE PRESSURED-TREATED. SILL PLATES ON CONCRETE OR MASONRY SHALL ALSO HAVE A SILL SEALER. THE ENDS OF OWJ SHALL BE WRAPPED TO PREVENT DIRECT CONTACT WITH MASONRY OR CONCRETE.

PREFABRICATED WOOD TRUSSES

7.1 PREFABRICATED WOOD TRUSSES SHALL COMPLY WITH NDS AND "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (TPI 1-14)."

7.2 ALL TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER'S REGISTERED ENGINEER.

7.3 TRUSSES SHALL BE FABRICATED BASED ON VERIFIED OR APPROVED DIMENSIONS.

7.4 FABRICATOR SHALL SUBMIT SHOP DRAWINGS AND TRUSS PLACEMENT PLANS(S) FOR ENGINEER APPROVAL PRIOR TO FABRICATION. TRUSS FABRICATOR SHALL SUBMIT CALCULATIONS TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL
PRIOR TO FABRICATION.

7.5 JOBSITE HANDLING AND ERECTION, INCLUDING TEMPORARY BRACING, DURING INSTALLATION OF TRUSSES SHALL COMPLY WITH TPI/WTCA BCSI 1.

7.6 UNLESS OTHERWISE NOTED, DESIGN TRUSSES TO MEET THE FOLLOWING DEFLECTION CRITERIA: LIVE LOAD: SPAN/480, TOTAL LOAD SPAN/240.

7.7 PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING SHALL BE INSTALLED USING STANDARD INDUSTRY LATERAL
RESTAINT/BRACING DETAILS IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE. LOCATIONS AND DETAILS FOR LATERAL RESTRAINT SHALL BE IDENTIFIED ON THE TRUSS DESIGN DRAWINGS.

7.8 MINIMUM WOOD TRUSS MEMBER SIZES SHALL BE 2x4 (NOMINAL).

WOOD FASTENING SCHEDULE U.N.O

CONNECTION	FASTENING	LOCATION
JOIST TO SILL OR GIRDER	3 - 8D COMMON (2 1/2" x 0.131") 3 - 3" x 0.131" NAILS	TOENAIL
BRIDGING TO JOIST	2 - 8D COMMON (2 1/2" x 0.131") 2 - 3" x 0.131" NAILS	TOENAIL EACH END
1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8D COMMON (2 1/2" x 0.131")	FACE NAIL
WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST	3 - 8D COMMON (2 1/2" x 0.131")	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	2 - 16D COMMON (3 1/2" x 0.162")	BLIND AND FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING	16D (3 1/2" x 0.135") AT 16" O.C. 3" x 0.131" NAILS AT 8" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16D (3 1/2" x 0.135") AT 16" O.C. 4 - 3" x 0.131" NAILS AT 16" O.C.	BRACED WALL PANELS
TOP PLATE TO STUD	2 - 16D COMMON (3 1/2" x 0.162") 3 - 3" x 0.131" NAILS	END NAIL
STUD TO SOLE PLATE	4 - 8D COMMON (2 1/2" x 0.131") 4 - 3" x 0.131" NAILS	TOENAIL
	2 - 16D COMMON (3 1/2" x 0.162") 3 - 3" x 0.131" NAILS	END NAIL
DOUBLE STUDS	16D (3 1/2" x 0.135") AT 24" O.C. 3" x 0.131" NAIL AT 8" O.C.	FACE NAIL
DOUBLE TOP PLATES	3 - 8D COMMON (2 1/2" x 0.131") 3 - 3" x 0.131" NAILS	TYPICAL FACE NAIL
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8D COMMON (2 1/2" x 0.131") 3 - 3" x 0.131" NAILS	TOENAIL
RIM JOIST TO TOP PLATE	8D (2 1/2" x 0.131") AT 6" O.C. 3" x 0.131" NAIL AT 6" O.C.	TOENAIL
TOP PLATES, LAPS AND INTERSECTIONS	2 - 16D COMMON (3 1/2" x 0.162") 3 - 3" x 0.131" NAILS	FACE NAIL
CONTINUOUS HEADER, TWO PIECES	16D COMMON (3 1/2" x 0.162")	16" O.C. ALONG EDGE
CEILING JOISTS TO PLATE	3 - 8D COMMON (2 1/2" x 0.131") 5 - 3" x 0.131" NAILS	TOENAIL
CONTINUOUS HEADER TO STUD	4 - 8D COMMON (2 1/2" x 0.131")	TOENAIL
CEILING JOISTS, LAPS OVER PARTITIONS	3 - 16D COMMON (3 1/2" x 0.162") MINIMUM, 4 - 3" x 0.131" NAILS	FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	3 - 16D COMMON (3 1/2" x 0.162") MINIMUM, 4 - 3" x 0.131" NAILS	FACE NAIL
RAFTER TO PLATE	3 - 8D COMMON (2 1/2" x 0.131") 3 - 3" x 0.131" NAILS	TOENAIL
1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8D COMMON (2 1/2" x 0.131") 2 - 3" x 0.131" NAILS	FACE NAIL
1" x 8" SHEATHING TO EACH BEARING	3 - 8D COMMON (2 1/2" x 0.131")	FACE NAIL
WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	3 - 8D COMMON (2 1/2" x 0.131")	FACE NAIL
2" PLANKS	16D COMMON (3 1/2" x 0.162")	AT EACH BEARING
COLLAR TIE TO RAFTER	3 - 10D COMMON (3" x 0.148") 4 - 3" x 0.131" NAILS	FACE NAIL
JACK RAFTER TO HIP	3 - 10D COMMON (3" x 0.148") 4 - 3" x 0.131" NAILS	TOENAIL
	2 -16D COMMON (3 1/2" x 0.162") 3 - 3" x 0.131" NAILS	FACE NAIL
ROOF RAFTER TO 2-BY RIDGE BEAM	2 - 16D COMMON (3 1/2" x 0.162") 3 - 3" x 0.131" NAILS	TOENAIL
	2 -16D COMMON (3 1/2" x 0.162") 3 - 3" x 0.131" NAILS	FACE NAIL
JOIST TO BAND JOIST	3 - 16D COMMON (3 1/2" x 0.162") 4 - 3" x 0.131" NAILS	FACE NAIL
LEDGER STRIP	3 - 16D COMMON (3 1/2" x 0.162") 4 - 3" x 0.131" NAILS	FACE NAIL AT EACH JOIST

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REGISTERED PROFESSIONAL ENGINEER
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STATE OF
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EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

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SHEET TITLE:

STRUCTURAL NOTES

SHEET NO.

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GENERAL NOTES

A. SEE CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
B. THE SUBGRADE SHALL BE PROOFROLLED AND SOFT SOILS SHALL BE REMOVED AND REPLACED AS REQUIRED UNDER THE SUPERVISION OF A QUALIFIED GEOTECHNICAL ENGINEER.
C. CONTROL JOINTS ARE SHOWN IN SLAB TO MINIMIZE COSMETIC SHRINKAGE CRACKS SPACING OF CONTROL JOINT IN SLAB IS 12'-0" O.C.
D. SEE MECHANICAL DRAWINGS FOR RTU LOAD PRIOR TO FABRICATION OF TRUSSES, CONFIRM THE LOADS WITH ARCHITECT.

FOUNDATION NOTES

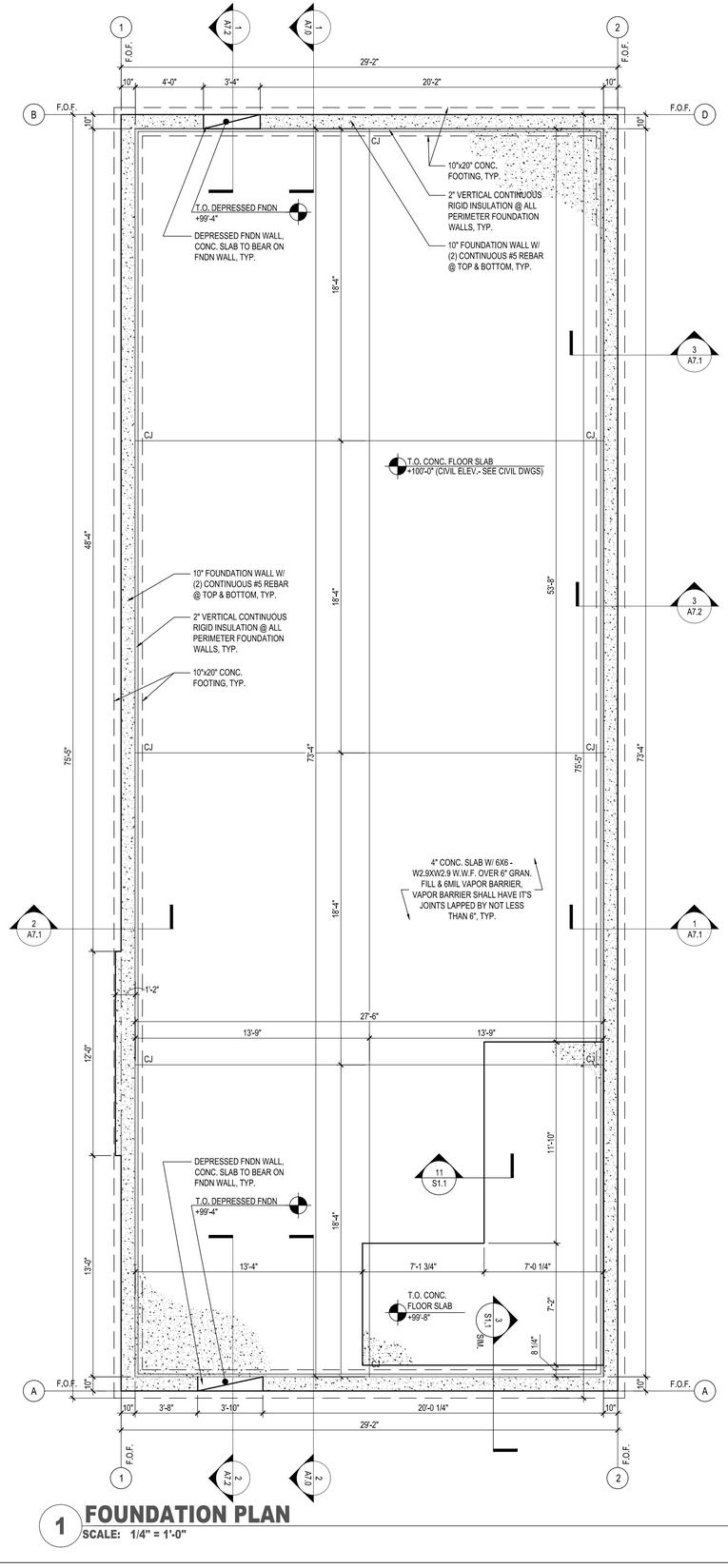
1. THE OWNER'S GEOTECHNICAL TESTING AGENCY SHALL INSPECT AND PERFORM ANY TEST REQUIRED TO VERIFY THE ACTUAL NET ALLOWABLE SOIL BEARING PRESSURE AT FOUNDATION BEARING LOCATIONS. THE GEOTECHNICAL TESTING AGENCY SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY LOCATION WHERE THE ACTUAL BEARING PRESSURE IS LESS THAN THE SPECIFIED VALUE (OR) WHERE ANY FOUNDATION ELEVATION MUST BE MODIFIED TO BEAR ON APPROPRIATE MATERIAL. CONSTRUCTION OF THE FOUNDATION SYSTEM SHALL NOT PROCEED AT ANY SUCH LOCATION UNTIL THE APPROPRIATE REMEDIAL ACTION AS PREPARED BY THE STRUCTURAL ENGINEER AND/OR THE GEOTECHNICAL ENGINEER HAS BEEN SUBMITTED TO CONTRACTOR.
2. EXISTING FILL AND ORGANIC MATERIAL SHALL BE REMOVED. THE GEOTECHNICAL TESTING AGENCY SHALL ESTABLISH THE EXTENT OF REMOVAL OF UNSUITABLE MATERIALS.
3. THE SLAB-ON-GRADE SHALL BE PLACED ON A MOISTURE VAPOR BARRIER OVER A MINIMUM THICKNESS OF 6" OF FILL CONFORMING TO INDOT COARSE GRADED #5 PLACED IN LIFTS NOT EXCEEDING 9" IN LOOSE THICKNESS AND COMPACTED TO A MINIMUM 90% OF OPTIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST ASTM D-1557.
4. THE GEOTECHNICAL TESTING AGENCY SHALL INSPECT EXCAVATION, FILL, AND BACKFILL OPERATIONS. THE GEOTECHNICAL TESTING AGENCY SHALL PERFORM APPROPRIATE COMPACTION TESTS DURING FILL AND BACKFILL OPERATIONS FOR COMPLIANCE WITH THE PROJECT SPECIFICATIONS.
5. PROPER MOISTURE CONTROL IS ESSENTIAL TO REDUCE THE AMOUNT OF EFFORT IN COMPACTION NECESSARY TO ACHIEVE THE DESIRED DENSITIES. THIS IS ESPECIALLY TRUE OF COHESIVE SOILS. THE RECOMMENDATIONS ON COMPACTION OF THE GEOTECHNICAL ENGINEER SHALL BE FOLLOWED.
6. THE SOIL TYPES AT THIS SITE CAN BE EASILY DISTURBED BY CONSTRUCTION EQUIPMENT. IT IS THE EARTHWORK CONTRACTOR'S RESPONSIBILITY TO CHOOSE EQUIPMENT AND WORK PROCEDURES WHICH WILL NOT DISTURB THE SUBGRADE SOILS. THE CONTRACTOR SHOULD ROUTE CONSTRUCTION TRAFFIC AWAY FROM AREAS OF FOUNDATIONS AND SLABS TO AVOID SOIL DISTURBANCE. THE RESPONSIBILITY TO PROPERLY SELECT CONSTRUCTION EQUIPMENT TO AVOID DISTURBING SOILS ON THE SITE LIES WITH THE CONTRACTOR.
7. SPECIAL PRECAUTIONS MUST BE FOLLOWED BY CONTRACTOR DURING COLD WEATHER CONSTRUCTION. ONLY UNFROZEN BACKFILL SHALL BE USED. SILTY CLAY SOILS SHALL NOT BE USED FOR BACKFILL. PLACEMENT OF FILL SHALL NOT BE PERMITTED ON FROZEN SOIL.
8. SUBGRADE SHALL BE PROTECTED AGAINST FROST OR FREEZING DURING CONSTRUCTION OF FOUNDATION SYSTEM AND UNTIL THE THREAT OF FREEZING OF THE SUBGRADE DOES NOT EXIST.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY REQUIRED DEWATERING OF THE SITE.
10. THE PROVISION OF TEMPORARY EARTH RETENTION SYSTEMS TO SUPPORT STRUCTURES, STREETS, ETC. SHALL BE THE RESPONSIBILITY OF CONTRACTOR. DESIGN AND CONSTRUCTION OF THE RETENTION SYSTEM SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF FOUNDATION DIMENSIONS AND ALIGNMENT PRIOR TO FOUNDATION CONSTRUCTION.
12. CONSULT THE GEOTECHNICAL ENGINEER FOR SLOPE PROTECTION OF EXCAVATION CUTS.
13. REINFORCING STEEL AND CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION FOR THE FOUNDATION SYSTEM.
14. REINFORCING STEEL SHALL BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO PLACING CONCRETE.
15. NO CONCRETE SHALL BE CAST ON OR AGAINST SUBGRADE MATERIAL CONTAINING FROST, WATER OR SNOW.
16. SUBGRADE WALLS THAT ARE ATTACHED TO FLOOR FRAMING OR SLAB AT THE TOP OF THE WALL AND WHICH RETAIN EARTH ON ONE SIDE HAVE BEEN DESIGNED AS "BRACED" WALLS. SLAB-ON-GRADE HAS BEEN DETAILED AND WALLS DESIGNED SUCH THAT SLAB-ON-GRADE BRACES THE BOTTOM OF BASEMENT WALLS AND THE TOP OF PIT WALLS. TEMPORARY BRACING OF THE WALLS SHALL BE PROVIDED UNTIL THE STRUCTURAL ATTACHMENT AT THE TOP AND BOTTOM HAS BEEN COMPLETED AND OBTAINED 75% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH SPECIFIED FOR THE BRACING ELEMENTS. WALLS SHALL NOT BE BACKFILLED UNTIL OBTAINING THE 28-DAY COMPRESSIVE STRENGTH SPECIFIED FOR THE WALLS.
17. CANTILEVERED RETAINING WALLS WHICH RETAIN EARTH ON ONE SIDE AND HAVE WIDE FOOTINGS TO COMPENSATE FOR THE OVERTURNING FORCES OF RETENTION SHALL NOT BE BACKFILLED UNTIL OBTAINING THE 28-DAY COMPRESSIVE STRENGTH SPECIFIED FOR THE WALLS.
18. FOUNDATIONS THAT SUPPORT THE SUPERSTRUCTURE AND THAT ARE MECHANICALLY ATTACHED TO SLAB-ON-GRADE AT THE TOP OF THE FOUNDATION SUCH AS VIA REINFORCING BARS HAVE BEEN DESIGNED AT "BRACED" WALLS. TEMPORARY BRACING OF THE FOUNDATIONS SHALL BE PROVIDED DURING ERECTION OF THE SUPERSTRUCTURE UNTIL THE STRUCTURAL ATTACHMENT AT THE TOP HAS BEEN COMPLETED AND OBTAINED 75% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH SPECIFIED FOR THE BRACING ELEMENTS.
19. GRADE BEAMS AND WALLS THAT RETAIN EARTH ON BOTH SIDES SHALL BE BACKFILLED ON BOTH SIDES SIMULTANEOUSLY. CONSTRUCTION JOINTS SHALL BE WATERTIGHT
20. ALL CONCRETE WORK BELOW GRADE SHALL BE DETAILED AS WATERTIGHT CONSTRUCTION. ALL SUBGRADE CONSTRUCTION JOINTS SHALL BE WATERTIGHT.
21. FOUNDATION HEIGHTS AS LISTED ON THE FOUNDATION PLAN RELATE TO ELEVATIONS MARKING SUCH THAT T.O.F. OF 0'-0" = 0'-0" A.F.F.

CONCRETE NOTES

1. CONCRETE DETAILING PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-05 AND ACI 301-05.
2. CONCRETE DETAILING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
3. CONCRETE IN THE FOLLOWING AREAS SHALL BE SAND AND NORMAL WEIGHT COARSE AGGREGATE (145 PCF MAX.) WITH THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH:

FROST WALLS	3500 PSI
BASEMENT WALLS	3500 PSI
FOOTINGS	3500 PSI
SLAB-ON-GRADE	3500 PSI

4. CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
5. CONCRETE SLABS ON GRADE SHALL BE REINFORCED AS A MINIMUM WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. W.W.F. SHALL BE FURNISHED IN FLAT SHEETS ONLY. REENTRANT CORNERS OF SLABS WHETHER AT SLAB OPENINGS OR OTHER SLAB EDGES SHALL BE REINFORCED WITH ONE DIAGONALLY PLACED #4 X 4'-0" BAR CENTERED ON THE CORNER.
6. CONCRETE COVER PROTECTION FOR REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318-05 SECTION 7.7 OR 1.0 TIMES THE BAR DIAMETER, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE. CONCRETE COVER PROTECTION FOR ELEVATED FORMED STRUCTURAL SLABS SHALL BE 1 INCH MINIMUM.
7. UNLESS NOTED OTHERWISE "CONTINUOUS" REINFORCEMENT SHALL HAVE MINIMUM LAP OF CLASS "B" (ACI 318-08 SECTION 12.15.1) AT SPLICES AND SHALL HOOK AT DISCONTINUOUS ENDS. LAPS OF WELDED WIRE FABRIC SHALL BE A MINIMUM OF TWO WIRE MESHES PLUS 2 INCHES.
8. JOINTS IN WALLS WITH REINFORCING PASSING THROUGH THE MID-THICKNESS OF THE JOINT SHALL BE PREPARED BY ROUGHENING THE SURFACE OF THE CONCRETE TO A MINIMUM AMPLITUDE OF ONE QUARTER INCH IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY AND LEAVING NO RESIDUE PARTICLES OR DAMAGED CONCRETE. JOINTS WITHOUT REINFORCING PASSING THROUGH THE MID-THICKNESS SHALL BE CONSTRUCTED WITH A MINIMUM 2X4 KEYWAY.
9. VERTICAL CONTROL JOINTS IN WALLS SHALL BE LOCATED AT A MAXIMUM SPACING OF 20 FEET ON CENTER. CONTROL JOINTS SHALL BE LOCATED NO MORE THAN 10 FEET FROM ANY CORNER OR WALL INTERSECTION. JOINTS SHALL BE LOCATED AT ABRUPT CHANGES IN WALL HEIGHT AND AT ONE OR BOTH EDGES OF WALL OPENINGS. LOCATION OF CONTROL JOINTS SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW AND COMMENT PRIOR TO CONSTRUCTION.
10. MAXIMUM SPACING FOR CONSTRUCTION OR CONTROL JOINTS IN THE SLAB-ON-GRADE SHALL BE 12 FEET IN EACH DIRECTION. JOINTS SHALL BE ARRANGED IN AS CLOSE TO ORTHOGONAL DIRECTIONS AS PRACTICAL. PATTERNS SHALL RESULT IN PANELS WHOSE RATIO OF SIDES IS NO GREATER THAN 1.5-TO-1.SEE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR JOINT FILLERS AND SEALANTS. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION AND CONTROL JOINT LAYOUT AND DETAILS FOR ARCHITECT'S REVIEW PRIOR TO CONSTRUCTION OF SLABS.
11. NO REINFORCING STEEL SHALL BE CUT OR WELDED WITHOUT PRIOR CONSENT OF THE STRUCTURAL ENGINEER.
12. REBAR CHAIRS SHALL BE PROVIDED FOR CONCRETE REINFORCEMENT. ADDITIONAL LONGITUDINAL SUPPORT BARS SHALL BE PROVIDED AS REQUIRED TO ASSURE PROPER SUPPORT FOR REINFORCING STEEL AND WELDED WIRE FABRIC.
13. CONCRETE SHALL ATTAIN 75% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH PRIOR TO REMOVING FORMS AND/OR LOADING.
14. EXPANSION BOLTS AND ADHESIVE ANCHORS SHALL BE AS MANUFACTURED BY HILTI, INC. OR EQUIVALENT ACCEPTABLE TO STRUCTURAL ENGINEER.
15. SPECIAL CARE SHALL BE TAKEN DURING THE CONCRETE PLACEMENT OPERATIONS TO ENSURE FULL CONSOLIDATION OF CONCRETE AROUND DOWELS, DEFORMED BAR ANCHORS, HEADED CONCRETE ANCHORS AND ANCHOR BOLTS.
16. CONCRETE SHALL NOT BE CAST UNTIL REINFORCEMENT AND INSTALLATIONS HAVE BEEN INSPECTED AND APPROVED BY THE INDEPENDENT TESTING AGENCY. THE CONTRACTOR SHALL NOTIFY THE INDEPENDENT TESTING AGENCY AT LEAST 24 HOURS PRIOR TO CASTING CONCRETE TO ALLOW FOR NECESSARY INSPECTIONS.
17. GROUT SHALL BE NON-SHRINK AND SHALL CONFORM TO CORPS OF ENGINEER'S SPECIFICATION CRD-C-621. THE FOLLOWING GROUT MANUFACTURERS AND PRODUCTS ARE APPROVED FOR USE ON THE PROJECT: EUCLID - NS GROUT, BASF - MASTERFLOW 555, SIKA - SIKAGROUT 212
18. UNLESS NOTED OTHERWISE CONCRETE COLUMNS AND WALLS SHALL HAVE CHAMFERED CORNERS.
19. CONSTRUCT FORMWORK TO PROVIDE CONCRETE SURFACES CONFORMING TO TOLERANCES OF ACI 117.
20. SUBMIT TO STRUCTURAL ENGINEER TEST REPORTS FOR COMPLIANCE WITH:
    A. PROPOSED CONCRETING MATERIALS,
    B. CONCRETE MIXES FOR EACH CLASS AND TYPE OF CONCRETE TO BE USED IN WORK AND INDICATING WHERE EACH IS TO BE USED IN STRUCTURAL MEMBERS,
    C. CONCRETE ENHANCED WITH HIGH-RANGE WATER-REDUCING ADMIXTURES, I.E. MANUFACTURER DATA ON ADMIXTURES, SLUMP RANGE AND SLUMP REVIEW PROCEDURES.
21. SUBMIT TO STRUCTURAL ENGINEER STEEL REINFORCEMENT SHOP DRAWINGS INDICATING DETAILS OF FABRICATION, BENDING, AND PLACEMENT NECESSARY FOR FABRICATION AND PLACEMENT OF REINFORCEMENT PREPARED IN ACCORDANCE WITH ACI 315. INCLUDE:
    A. BAR SIZES, SPACING, LOCATIONS, ARRANGEMENT, QUANTITIES, MATERIALS AND GRADE OF REINFORCEMENT.
    B. LOCATION OF SPLICES OF CONTINUOUS REINFORCEMENT AS INDICATED ON DRAWINGS.
    C. BAR BENDING DETAILS, BAR SCHEDULES, AND SUPPORTS OF CONCRETE REINFORCEMENT.
    INCLUDE SPECIAL REINFORCEMENT REQUIRED FOR OPENINGS THROUGH CONCRETE STRUCTURES.
    D. LOCATION OF CONSTRUCTION JOINTS.
22. ADEQUATE PROTECTION SHALL BE PROVIDED. CONCRETE SHOULD NOT BE PLACED DURING RAIN, SLEET OR SNOW. RAIN WATER SHOULD NOT BE ALLOWED TO INCREASE MIXING WATER NOR TO DAMAGE SURFACE FINISH.
23. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C618, CLASS C OR F. SUBSTITUTION FOR PORTLAND CEMENT SHALL NOT EXCEED 20 PERCENT OF WEIGHT OF CEMENTITIOUS MATERIAL, ON AT LEAST A POUND FOR POUND BASIS.
24. TIES AND HANGERS SHALL BE OF A COMMERCIALLY MANUFACTURED TYPE. WIRE IS UNACCEPTABLE. WHEN CONCRETE IS EXPOSED TO VIEW, THE PORTION REMAINING WITHIN CONCRETE SHALL LEAVE NO METAL WITHIN ONE INCH OF SURFACE.
25. CURING COMPOUND SHALL CONFORM TO ASTM C309.
26. PRECAST CONCRETE BLOCK BAR SUPPORTS SHALL NOT BE LESS THAN 4 INCHES SQUARE AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH EQUAL TO OR EXCEEDING SPECIFIED 28-DAY COMPRESSIVE STRENGTH OF CONCRETE BEING PLACED.
27. PROVIDE CONCRETE WHICH WILL BE SUBJECT TO DESTRUCTIVE EXPOSURE, OTHER THAN NORMAL LOADING, SUCH AS FREEZING AND THAWING, OR DEICING SALTS, WITH ENTRAINED AIR OF 6 PERCENT BY VOLUME. SUCH CONCRETE SHALL INCLUDE SIDEWALKS, FROST WALLS, BASEMENT WALLS, STOOPS, WING WALLS, EXTERIOR STAIRS.
28. CONCRETE SLUMP DETERMINED BY ASTM C143 SHALL BE 4" PLUS OR MINUS ONE INCH.
29. COARSE AGGREGATE MAXIMUM SIZE SHALL PASS A 3/4 INCH SIEVE BUT NOT A 1/2 INCH SIEVE.
30. ADMIXTURES CONTAINING EITHER CALCIUM CHLORIDE OR WATER SOLUBLE CHLORIDE IONS EXCEEDING 0.05 PERCENT BY WEIGHT OF CEMENT SHALL NOT BE USED.
31. CONCRETE PLACEMENT WHEN AMBIENT AIR TEMPERATURES ARE EXPECTED BELOW 50 DEGREES F. SHALL MEET RECOMMENDATIONS OF ACI 306R-88 FOR COLD WEATHER AND WHEN AMBIENT AIR TEMPERATURES ARE EXPECTED ABOVE 90 DEGREES F. SHALL MEET RECOMMENDATIONS OF ACI 305R-99 FOR HOT WEATHER CONCRETE PLACEMENT. CONTRACTOR SHALL SUBMIT PROPOSED PROCEDURES FOR COMPLYING WITH THESE DOCUMENTS TO STRUCTURAL ENGINEER 5 BUSINESS DAYS PRIOR TO CASTING CONCRETE DURING THESE CONDITIONS.
32. FLOOR SURFACE TOLERANCES SHALL BE EVALUATED IN ACCORDANCE WITH ASTM E1155.
    A. FLATNESS FF = 25 OVERALL, FF = 13 MINIMUM LOCAL VALUE
    B. LEVELNESS FL = 20 OVERALL, FL= 10 MINIMUM LOCAL VALUE
    C. FL APPLIES ONLY TO SLAB-ON-GRADE AND SLABS SHORED AT THE TIME OF TESTING.
33. PLACE REINFORCEMENT MEETING THE RECOMMENDATIONS OF CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
34. AFTER FORMS HAVE BEEN STRIPPED, CONCRETE WHICH IS NOT FORMED AS REQUIRED, WHICH IS OUT OF ALIGNMENT OR LEVEL BEYOND SPECIFIED TOLERANCES, OR WHICH SHOWS DEFECTIVE SURFACE THAT CANNOT BE PROPERLY REPAIRED OR PATCHED SHALL BE REMOVED. SUBMIT TO STRUCTURAL ENGINEER, IN WRITING, REMEDIAL PROCEDURES FOR REVIEW PRIOR TO BEGINNING WORK. HONEYCOMBED, SPALLED OR OTHERWISE DAMAGED CONCRETE SHALL BE REPAIRED AND PATCHED.
35. NOTIFY STRUCTURAL ENGINEER OF DEFECTS AND SUBMIT REMEDIAL PROCEDURES IN WRITING FOR REVIEW PRIOR TO BEGINNING WORK.



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

DUNKIN'

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STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

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EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

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SHEET TITLE.

FOUNDATION PLAN & NOTES

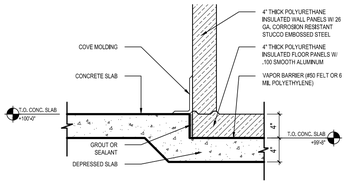
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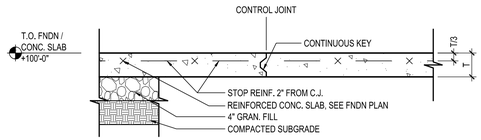
Kolbrook Job No.	1502.236	Consultant Job No.	-

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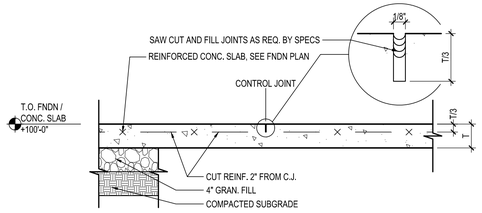
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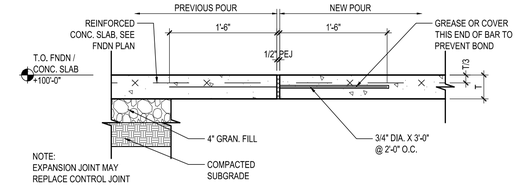
11 TYP. DEPRESSED SLAB @ WIC
SCALE: 1" = 1'-0"



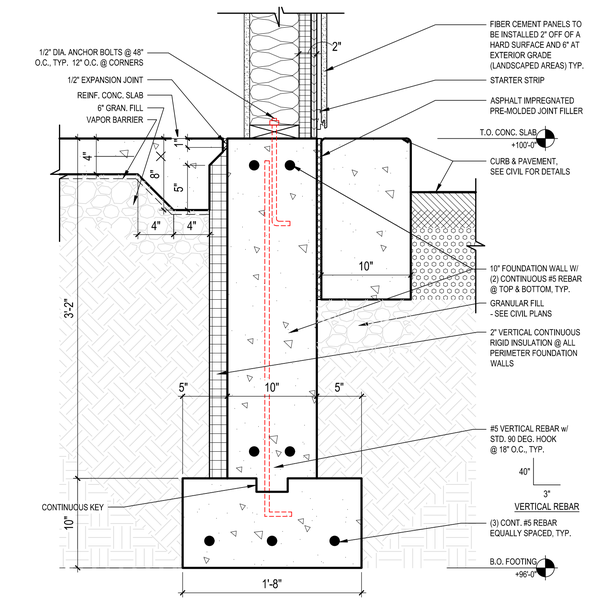
10 TYP. SLAB ON GRADE CONSTRUCTION JOINT DETAIL
SCALE: 1" = 1'-0"



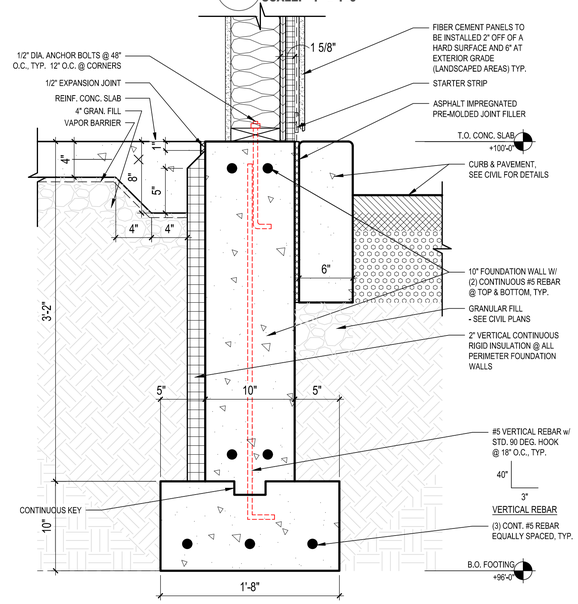
9 TYP. SLAB ON GRADE CONTROL JOINT DETAIL
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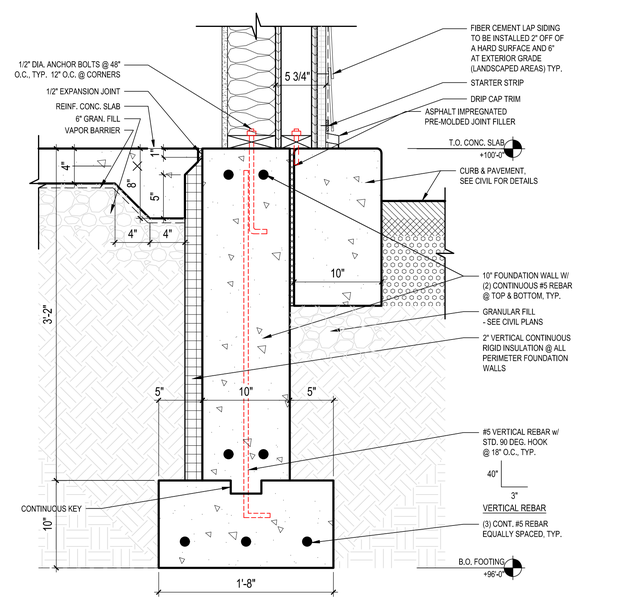
8 TYP. SLAB ON GRADE EXPANSION JOINT DETAIL
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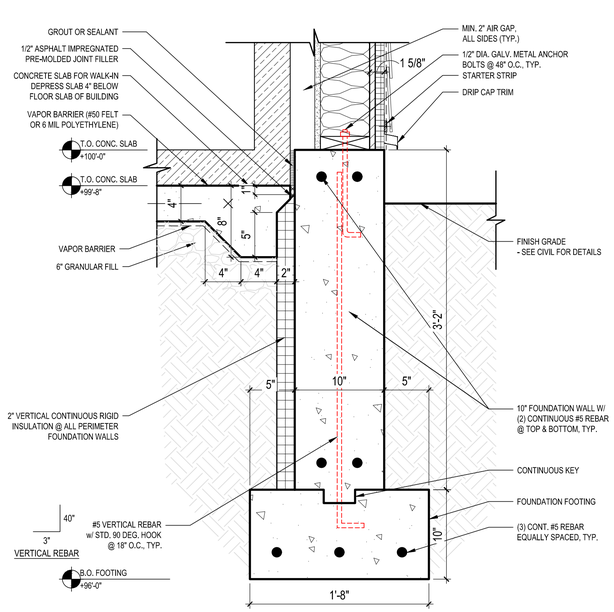
6 TYP. FNDN DETAIL @ 10" CONC. CURB
SCALE: 1-1/2" = 1'-0"



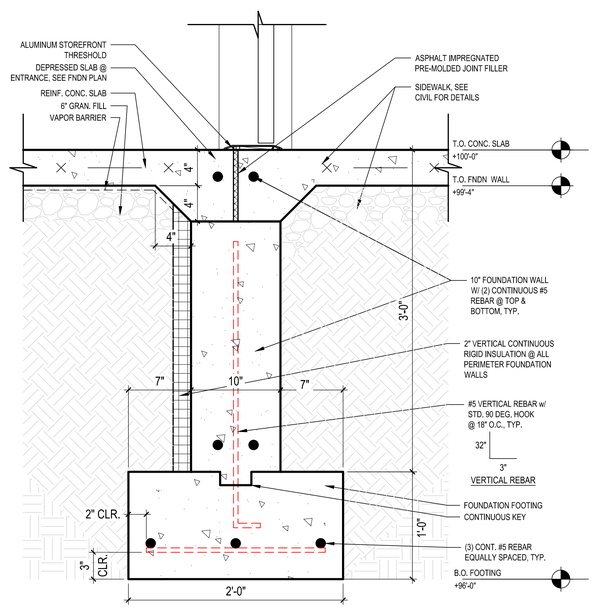
5 TYP. FNDN DETAIL @ 6" CONC. CURB
SCALE: 1-1/2" = 1'-0"



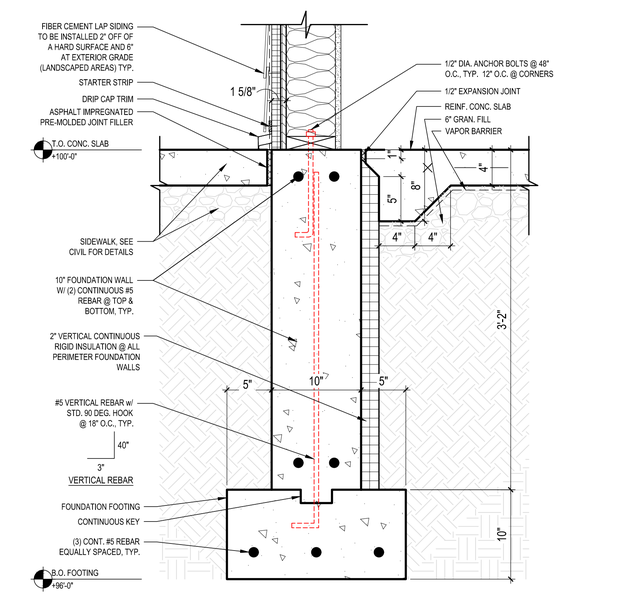
4 TYP. 10" CURB FNDN DETAIL @ ACCENT WALL
SCALE: 1-1/2" = 1'-0"



3 TYP. FNDN DETAIL @ WIC @ PERMITER WALL
SCALE: 1-1/2" = 1'-0"



2 TYP. DEPRESSED FNDN DETAIL
SCALE: 1-1/2" = 1'-0"



1 TYP. FNDN DETAIL
SCALE: 1-1/2" = 1'-0"

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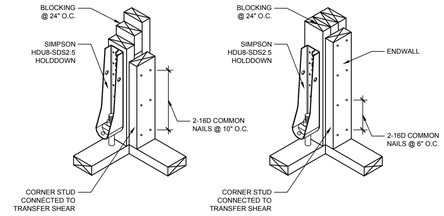
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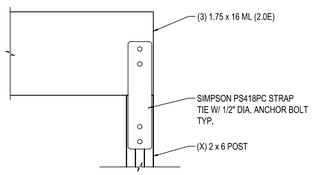
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Kolbrook Job No.	1502.236	Consultant Job No.	-

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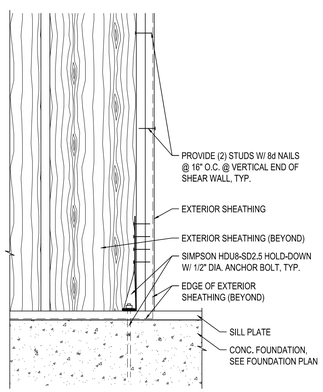
4 HOLDDOWN DETAIL
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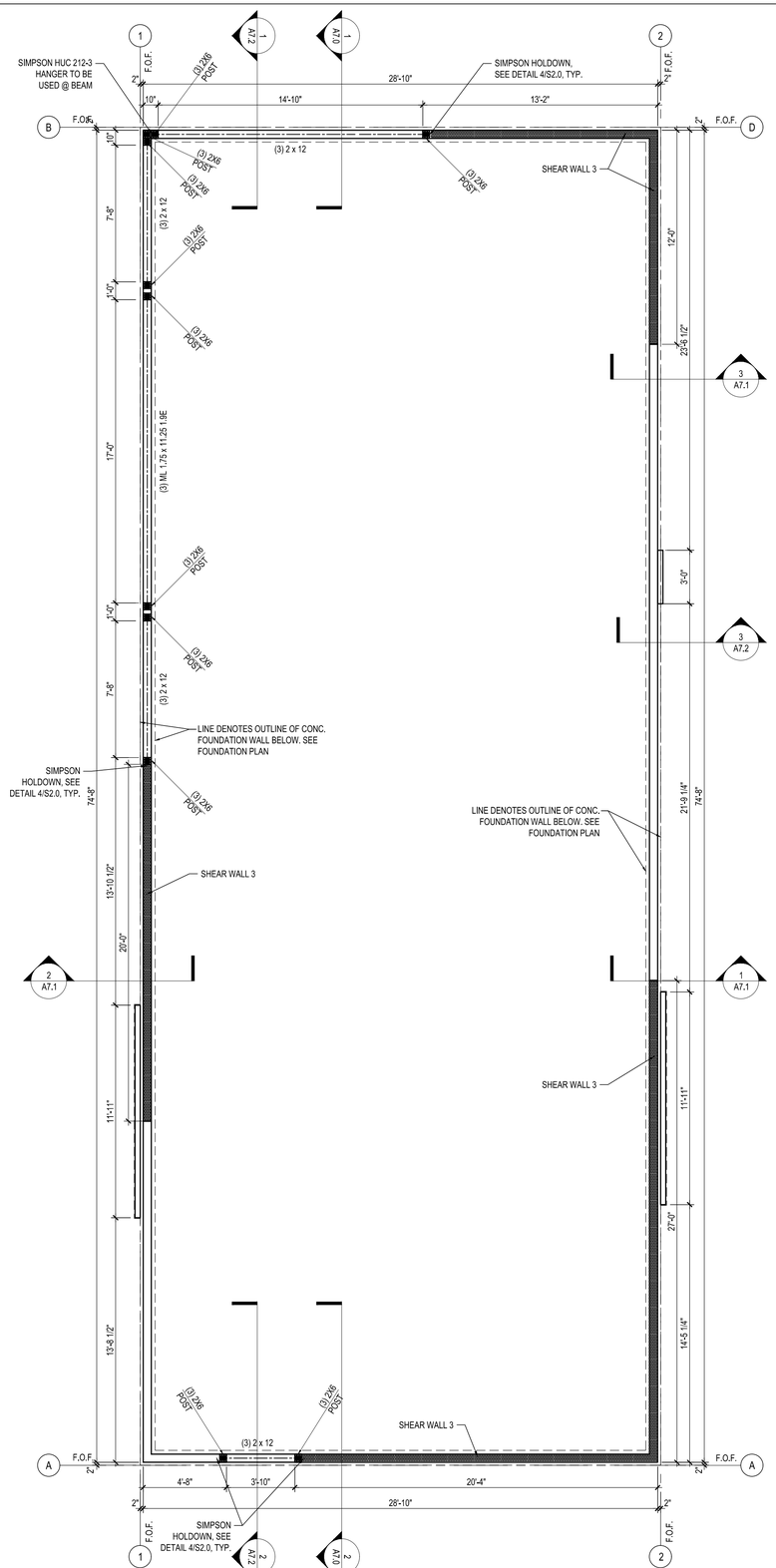
3 POST TO HEADER DETAIL
SCALE: 1" = 1'-0"

SHEAR WALL SCHEDULE

#	HATCH	DESCRIPTION
SHEAR WALL 1		8d NAILS @ 6" O.C. @ EDGES & 6" O.C. @ REST OF FIELD OF SHEATHING
SHEAR WALL 2		8d NAILS @ 3" O.C. @ EDGES & 6" O.C. @ REST OF FIELD OF SHEATHING
SHEAR WALL 3		3 1/2" x .131" SHANK NAILS @ 3" O.C. @ EDGES & 12" O.C. @ REST OF FIELD OF 2" INSULATED STRUCTURAL PANEL. MINIMUM NAIL PENETRATION INTO FRAMING = 1 1/2".



2 SHEAR WALL BASE DETAIL
SCALE: 1" = 1'-0"



1 FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"
NOTE: SIMPSON MPBZ POST BASE TO BE USED @ EACH WOOD POSTS, TYP.

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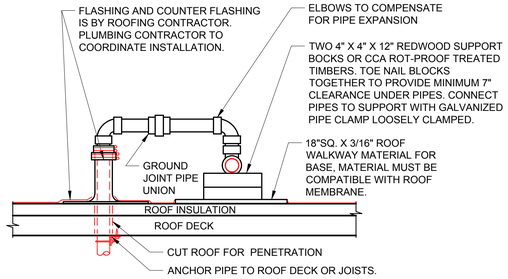
FLOOR FRAMING PLAN & DETAILS

SHEET NO.

S2.0

Kolbrook Job No.	1502.236	Consultant Job No.	-

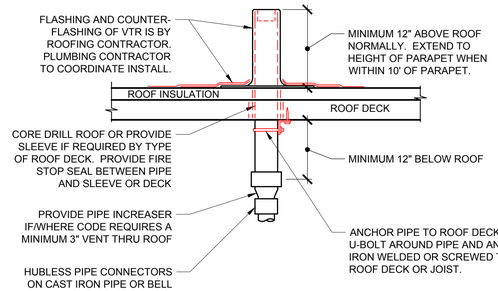
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NOTES:

1. REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S). USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS, EQUIPMENT CURBS, PARAPETS, EXPANSION JOINTS, ETC.
2. LOCATE SUPPORTS AT THE FOLLOWING SPACING: 1-1/2"=9', 1-1/4"=8', 1"=7' & 3/4"=6'. PROVIDE SUPPORTS AS CLOSE AS POSSIBLE TO EACH ELBOW AND TEE.

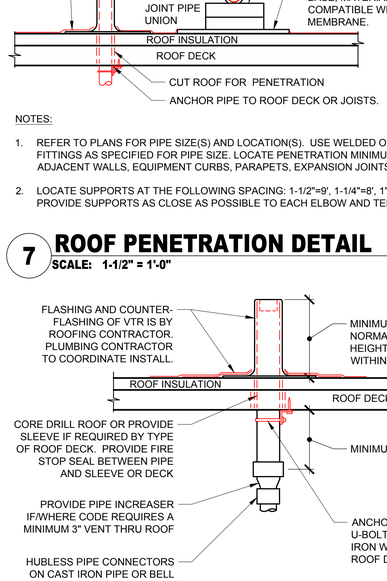
7 ROOF PENETRATION DETAIL
SCALE: 1-1/2" = 1'-0"



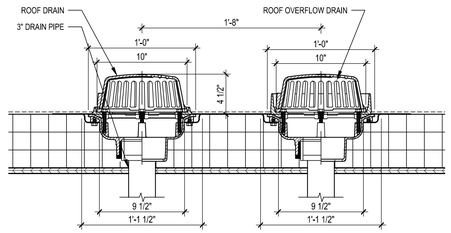
NOTE:

REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

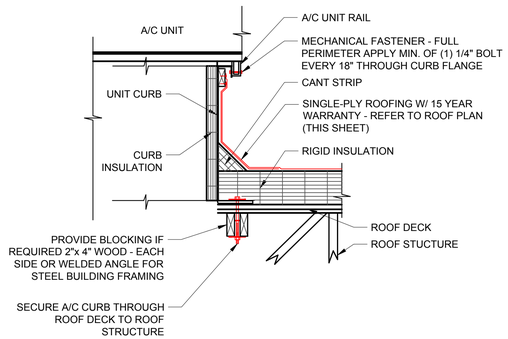
5 VENT THRU ROOF DETAIL
SCALE: 1-1/2" = 1'-0"



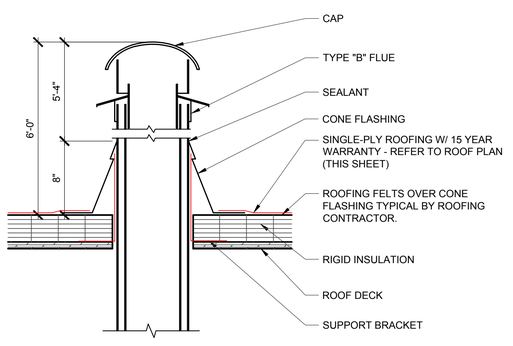
3 ROOF CURB TO TRUSS DETAIL
SCALE: 1" = 1'-0"



8 ROOF DRAIN DETAIL
SCALE: 1-1/2" = 1'-0"



6 RTU CURB DETAIL
SCALE: 1-1/2" = 1'-0"



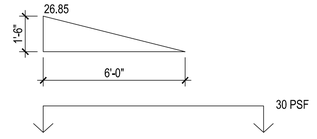
4 EXHAUST PIPE PENETRATION DETAIL
SCALE: 1-1/2" = 1'-0"

STRUCTURAL DESIGN INFORMATION

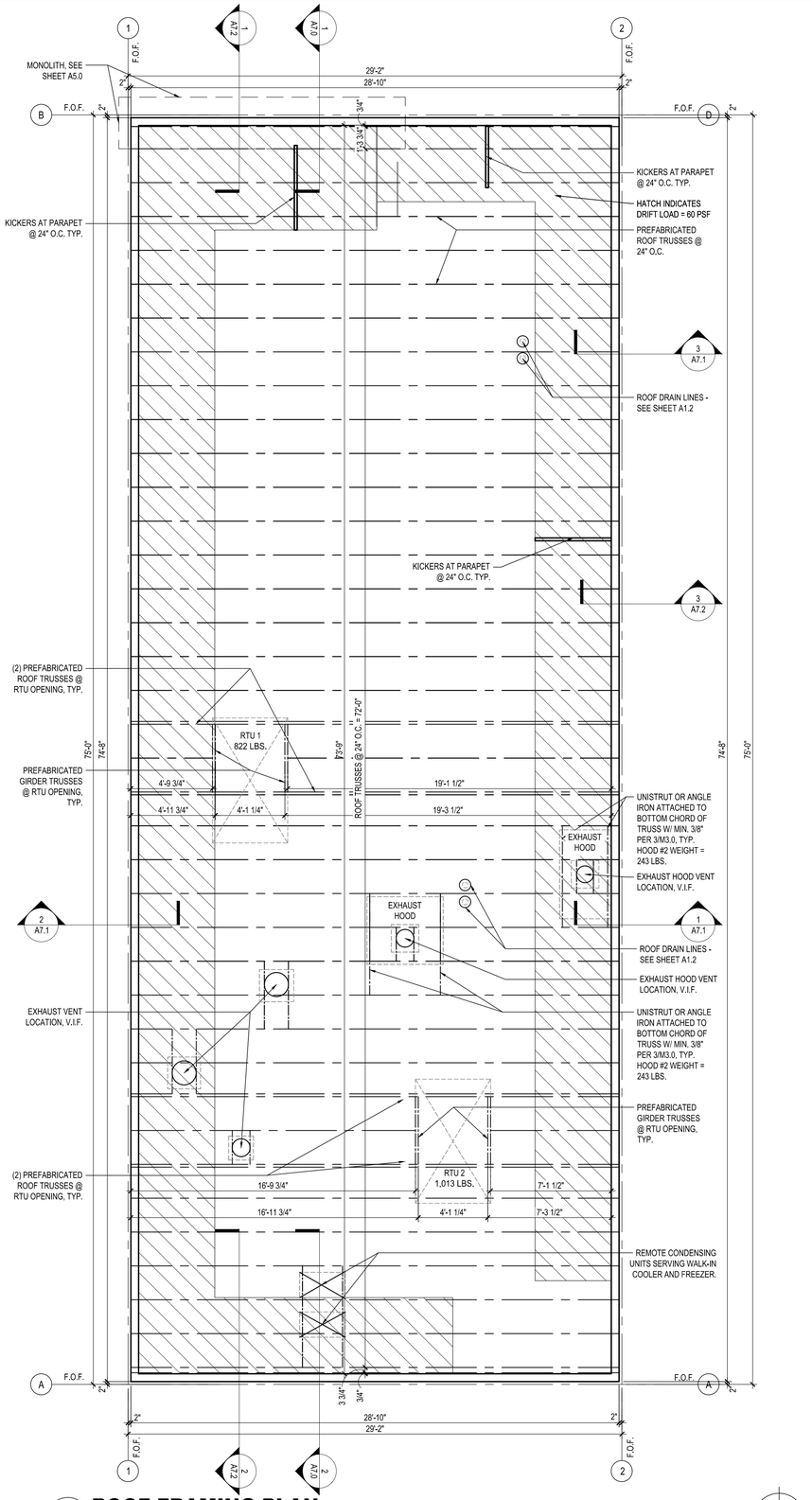
FLOOR LIVE LOAD:	100 PSF
ROOF LIVE LOAD:	35 PSF
GROUND SNOW LOAD P_g:	30 PSF
FLAT ROOF SNOW LOAD P_f:	30 PSF (NOT REDUCIBLE)
SNOW EXPOSURE FACTOR C_e:	1.0
SNOW LOAD IMPORTANCE FACTOR I_s:	1.0
THERMAL FACTOR C_t:	1.0
ULTIMATE DESIGN WINDSPEED V_{ult}:	115 MPH
NOMINAL DESIGN WINDSPEED V_{asd}:	90 MPH
RISK CATEGORY:	II
SEISMIC RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR I_e:	1.00
SITE CLASS (FROM GEOTECH REPORT):	D

SNOW DRIFT DIAGRAM

FLAT ROOF SNOW LOAD: P_f = 30 PSF (NOT REDUCIBLE)



2 SNOW DRIFT DIAGRAM
SCALE: NTS



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

DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

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EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

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ROOF FRAMING PLAN & DETAILS

SHEET NO.

S3.0

Kolbrook Job No.	1502.236	Consultant Job No.	-

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GENERAL NOTES

TYPICAL SUBSTRATES FOR INTERIOR WALLS SHALL BE AS FOLLOWS:

PREP/ KITCHEN AND STORAGE AREAS:
0'-0" TO 3'-0" - ⅝" DUROCK CEMENT BOARD, 3'-0" AND ABOVE - ⅝" ORIENTED STRAND BOARD (OSB)

SERVICE AREA:
⅝" MIN. ORIENTED STRAND BOARD (OSB), ⅝" DUROCK CEMENT BOARD BEHIND PORCELAIN/ CERAMIC TILES.

SALES AND SEATING AREAS:
⅝" GYPSUM BOARD, ⅝" DUROCK CEMENT BOARD BEHIND CERAMIC TILES, ⅝" ORIENTED STRAND BOARD @ DECORATIVE PLAM "WOOD" WALLS.

RESTROOMS:
⅝" DUROCK CEMENT BOARD

GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE BLOCKING AS REQUIRED THROUGHOUT: IN RESTROOMS FOR GRAB BARS, LAVATORIES, HAND DRIERS, MIRRORS, PAPER TOWEL DISPENSERS, SOAP DISPENSERS, AND OTHER ACCESSORIES UNLESS OTHERWISE NOTED; IN SERVICE AREA FOR: VDU, WALL SHELVES, ETC.

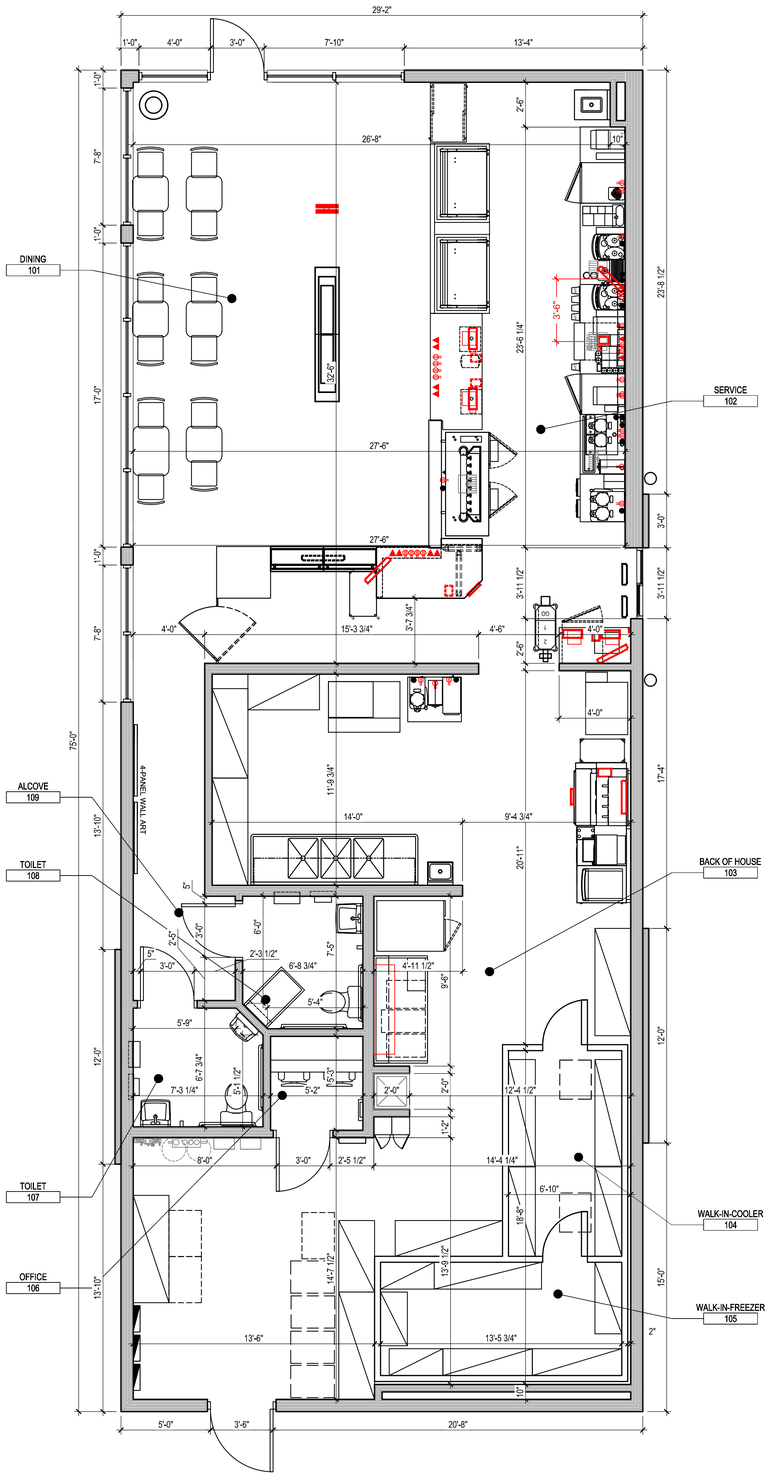
- DIMENSIONS SHOWN ARE TO THE FACE OF FINISH.
- REFER TO EQUIPMENT "K" SHEETS FOR INFORMATION REGARDING THE EQUIPMENT AND EQUIPMENT LAYOUT.
- SEE SHEET A9.1 FOR DOOR SCHEDULE AND DOOR & FRAME TYPES.
- PROVIDE FIRE EXTINGUISHERS, TYPE ABC, WALL HUNG, TOP @ 5'-0" A.F.F. (BY G.C.) TO BE LOCATED EVERY 30'-0" IN THE SERVICE, KITCHEN PREP AND STORAGE AREAS.

INDOOR AIR QUALITY MANAGEMENT REQUIREMENTS:
- DURING CONSTRUCTION THE USE OF SMOKING/TOBACCO PRODUCTS INSIDE THE BUILDING IS PROHIBITED.
- CONTRACTOR AND SUBCONTRACTORS SHOULD MAKE EVERY EFFORT TO MAINTAIN CLEAN WORK AREAS.
- CONSTRUCTION ACTIVITIES THAT PRODUCE DUST SHOULD TAKE PLACE PRIOR TO HVAC STARTUP/USE, AND EVERY EFFORT SHOULD BE MADE TO DIRECT THESE POLLUTANTS TO THE OUTDOORS WITH FANS.
- MATERIALS THAT ARE ABSORPTIVE SHOULD NOT BE BROUGHT ON-SITE UNTIL THE BUILDING IS SUFFICIENTLY DRIED IN, AND SHOULD BE ELEVATION FROM THE GROUND AND COVERED WITH VISQUEEN WHILE STORED ON SITE.
- IF THE HVAC SYSTEMS WILL BE USED DURING CONSTRUCTION ACTIVITIES, TEMPORARY FILTRATION (MERV 8) SHOULD BE USED ON ALL RETURN AIR INTAKES, AND THE FILTERS INSIDE THE UNIT SHOULD BE REPLACED PRIOR TO BUILDING TURN OVER.
- ALL INDOOR AIR QUALITY MANAGEMENT POLICIES OUTLINED ABOVE ARE PHOTOGRAPHED AT 25%, 50%, AND 75% PROJECT COMPLETION TO CONFIRM MEASURES WERE FOLLOWED.

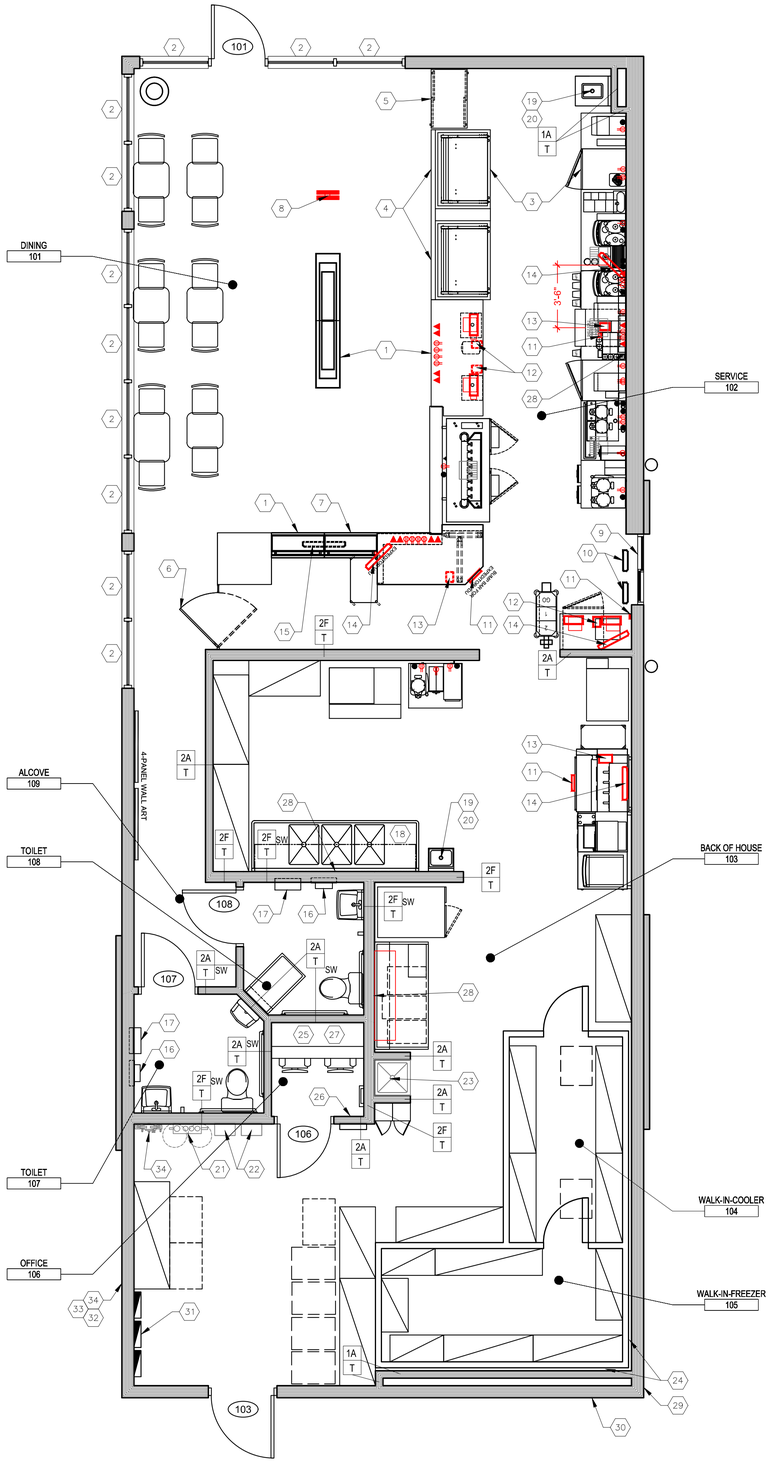
CONSTRUCTION WASTE RECYCLING REQUIREMENTS:
- ALL CONSTRUCTION-RELATED RECYCLABLE WASTE SHOULD BE RECYCLED/REUSED OR OTHERWISE DIVERTED FROM LANDFILL WHENEVER POSSIBLE.
- AT MINIMUM ALL CONCRETE, METAL, AND PLASTIC THAT MEETS LOCAL RECYCLING STANDARDS SHOULD BE RECYCLED.
- WHERE LOCAL MUNICIPALITIES OR VENDORS OFFER COMMINGLED RECYCLING OPPORTUNITIES TO HELP ACHIEVE OVER 50% CONSTRUCTION WASTE DIVERSION RATE FROM LANDFILL, FRANCHISEE SHOULD PURSUE.

FLOOR PLAN NOTES

1. MILLWORK PROVIDED AND INSTALLED BY OWNER'S CONSOLIDATOR. INCLUDES: EQUIPMENT, STAINLESS STEEL TABLES AND DINING FURNITURE.PROVIDE ACCESS FOR UTILITIES & CLEANING AT ALL FRONTLINE MILLWORK.
2. PROVIDE WINDOW SHADES. SEE CONSTRUCTION SPECIFICATIONS AND NATIONAL ACCOUNTS.
3. 5'-0" MINIMUM MUST BE PROVIDED BETWEEN BAKERY CASES AND COFFEE BACK LINE.
4. PROVIDE RECEPTACLE FOR EACH BAKERY CASE. OUTLET TO BE LOCATED WITHIN MILLWORK CHASE.
5. PROVIDE RECEPTACLE FOR COKE COOLER
6. SWING GATE PROVIDED AND INSTALLED BY MILLWORK VENDOR.PROVIDE SOLID BLOCKING AT WALL.
7. ONLINE MOBILE ORDERING (OMO) DISPLAY UNIT TO BE PROVIDED AND INSTALLED BY OWNER'S CONSOLIDATOR.
8. FUTURE ORDER KIOSK LOCATIONS. ELECTRICAL TO BE PROVIDED OVERHEAD, 100-120V/200-240VAC,50/60HZ
9. SLIDING DRIVE-THRU WINDOW. PROVIDE POWER FOR WINDOW
10. PROVIDE (2) DRIVE-THRU VDU TIMERS AND EXPEDITOR.
11. BUMP BAR (VDU CONTROLLER) TO SHARE CIRCUIT WITH VDU. PROVIDE 100-240V.
12. RECEIPT PRINTER (2) AT FRONT COUNTER (1) AT DRIVE-THRU, PROVIDE 100-24V. SEE POS COMMUNICATIONS SCHEDULE.
13. PREP PRINTER (1) AT COFFEE STATION, (1) AT SANDWICH STATION AND (1) OTG PRINTER. PROVIDE 24/34V.
14. VDU (1) AT BEVERAGE STATION, (1) AT SANDWICH STATION, (1) EXPEDITER AT DRIVE-THRU AND (1) EXPEDITER AT HAND OFF. PROVIDE 100-240V.
15. POLE MOUNTED OSB VDU AT HANDOFF AT THE "ON THE GO" PICK UP RACK. DATA AND POWER WIRES TO BE HIDDEN INSIDE OF VDU POLE THROUGH THE COUNTERTOP.
16. SURFACE MOUNT HAND DRYER W/ DBI BRANDING AND SUSTAINABILITY MESSAGE; REFER TO TOILET ELEVATIONS.
17. TRASH RECEPTACLE TO BE RECESSED IN WALL.
18. 3 COMPARTMENT SINK W/ 2 INTEGRATED DRAIN BOARDS- PROVIDE DEDICATED WATER SUPPLY FOR P&G DISPENSER (SEE NATIONAL ACCOUNTS). P&G EQUIPMENT INSTALLED BY VENDOR
19. HAND SINKS TO BE INSTALLED WITH SPLASH GUARDS.
20. PROVIDE DIRECT LINE W/ TEMPERATURE REGULATOR VALVE FROM HWH TO ALL HAND WASHING SINKS.
21. WATER FILTRATION SYSTEM (BRANCH OFF MAIN LINE) FOR COFFEE BREWING EQUIPMENT, BEVERAGE MACHINES, ICE MACHINE., ETC. PROVIDE ELECTRICAL CONNECTION.
22. TANK-LESS TYPE WATER HEATER.
23. JANITOR'S SINK - PROVIDE DEDICATED WATER SUPPLY FOR P&G DISPENSER (SEE NATIONAL ACCOUNTS). P&G EQUIPMENT INSTALLED BY VENDOR.
24. PROVIDE 2" MIN AIR SPACE BETWEEN WALK-IN BOX AND ALL ADJACENT WALLS.
25. G.C. TO PROVIDE ANCHOR BOLTS FOR SLAB MOUNTED SAFE. REFER TO SPECIFICATIONS TO BE PROVIDED BY FRANCHISEE.
26. PLAN TUBE MOUNTED ON WALL. SEE DETAIL 1/A9.1.
27. OFFICE FURNITURE TO BE PROVIDED AND INSTALLED BY SELECTED G.C. SHELVES TO BE PROVIDED WITH PLYWOOD BACKING FOR SUPPORT.
28. PROVIDE PLYWOOD BACKING BEHIND DRYWALL WHERE MENU BOARDS, VDUs AND SHELVES TO BE INSTALLED. PREP FOR FINAL FINISH MATERIAL.
29. PROVIDE FROST PROOF HOSE BIB FOR DRIVE-THRU MAINTENANCE.
30. ROOF LADDER TO BE PROVIDED AND INSTALLED BY GC.
31. ELECTRICAL PANELS; SEE ELECTRICAL SHEETS.
32. ELECTRICAL METER - PROVIDE APPROPRIATE CONNECTION TO ELECTRICAL PANELS AS PER FEDERAL, STATE, AND LOCAL CODES ON G0.0.
33. GAS METER TO BE INSTALLED.
34. WATER METER - PROVIDE CONNECTION TO BACK FLOW PREVENTER (RPZ).



2 DIMENSIONED FLOOR PLAN
SCALE: 3/16" = 1'-0"



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

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DIMENSIONED FLOOR PLAN, KEYNOTED FLOOR PLAN & NOTES

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GENERAL NOTES

A. ALL INTERIOR & EXTERIOR LIGHTING TO BE LED (INCLUDING IN THE WALK-IN BOX).

B. EFFECTIVE LIGHTING CONTROLS STANDARD THROUGHOUT. OCCUPANCY SENSORS TO BE USED IN SPACES NOT ACTIVELY USED THROUGHOUT THE DAY (RESTROOMS, OFFICE, & ETC..).

C. INTEGRATE OCCUPANCY SENSORS IN SPACES NOT ACTIVELY USED THROUGHOUT THE DAY INCLUDING: RESTROOMS, OFFICE, WALK-IN BOX, & CLOSETS.

D. REFER TO MASTER FINISH SCHEDULE FOR CEILING FINISHES.

E. ALL DEVICES (DIFFUSERS, RETURNS, SMOKE DETECTORS, ETC.) TO MATCH CEILING COLOR. WHEN OPEN CEILING IS USED ALL PIPES AND DUCTS AND ALL OTHER ITEMS THAT ARE ON CEILING TO BE PAINTED TO MATCH CEILING COLOR.

G. LIGHT BULBS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT.

I. STORAGE SHALL BE MAINTAINED 2'-0" OR MORE BELOW THE CEILING IN NON-SPRINKLED AREAS OF BUILDINGS OR A MINIMUM OF 18" BELOW SPRINKLER HEAD DEFLECTORS IN SPRINKLED AREAS OF BUILDING.

MUSIC SYSTEM NOTES

A. MUSIC SYSTEM IS REQUIRED IN STORES. STEREO RECEIVER, SPEAKERS & MUSIC SYSTEM PROVIDED BY OWNER, INSTALLED BY GC.

B. ALL CEILING SPEAKERS TO BE FLUSH MOUNTED AND MATCH COLOR OF CEILING

C. HARDWARE TO BE INSTALLED IN THE OFFICE.

D. FOR MUSIC & SYSTEM SUPPLIER CONTACT INFO SEE SHEET GN2.5.

E. PROVIDE AND INSTALL SEPARATE VOLUME CONTROLS FOR EACH AREA (RESTROOMS, SEATING AREA, EXTERIOR)

REFLECTED CEILING PLAN NOTES

1. GYPSUM WALL BOARD CEILING.
2. TYPE 2 HOOD FOR SANDWICH STATION WITH EXHAUST ROOF FAN.
3. TYPE 2 HOOD FOR OVEN WITH EXHAUST ROOF FAN.
4. FLUE FOR HOT WATER HEATER.
5. DIFFUSERS AND GRILLS IN DINING AREA TO MATCH CEILING TILE AND GRID COLOR.
6. FRONTLINE SOFFIT TO ALIGN WITH MILLWORK BELOW.
7. 'R1' LIGHT FIXTURES ABOVE FRONTLINE SOFFIT TO ALIGN WITH 'R1' LIGHT FIXTURES AT BACK LINE SOFFIT (TYP.).
8. CUSTOM LIGHT BAR MOUNTED @ 8'-7" A.F.F. SEE DETAIL 4/A2.1. FIXTURE TO BE ORANGE ON TOP OF DUNKIN SERVICE
9. BOTTOM OF SUSPENDED LINEAR LED FIXTURES @ 10'-0" A.F.F. (FIXTURE P-1 AND P-2). SEE 5/A2.1
10. SPEAKERS TO BE PROVIDED BY OWNER AND INSTALLED BY G.C. SPEAKERS TO MATCH COLOR OF FINAL CEILING FINISH.
11. CENTER LIGHT FIXTURE IN ROOM.
12. DIGITAL MENU BOARD-VERTICAL (DEFAULT)
13. PROVIDE 24"X24" ACCESS HATCH IN CEILING.
14. AIR CURTAIN - PROVIDE 115V OUTLET
15. LIGHT FIXTURE 'A' WHERE LROD AND ARTWORK HUNG.
16. LIGHTS PROVIDED BY WALK-IN BOX MANUFACTURER.
17. LINE OF ORANGE CANOPY.
18. UNDERSIDE OF CANOPY TO BE PAINTED PC-13 IF FRAMED IN FIELD.
19. ORANGE CANOPY LIGHTING - BELOW: WHEN USING THE NATIONAL ACCOUNTS PREFABRICATED CANOPY, LED-2 & LED-13 SHALL BE PROVIDED BY VENDOR; IF FRAMED IN FIELD, LED-2 & LED-13 SHALL BE PROVIDED BY THE G.C.

CEILING LEGEND

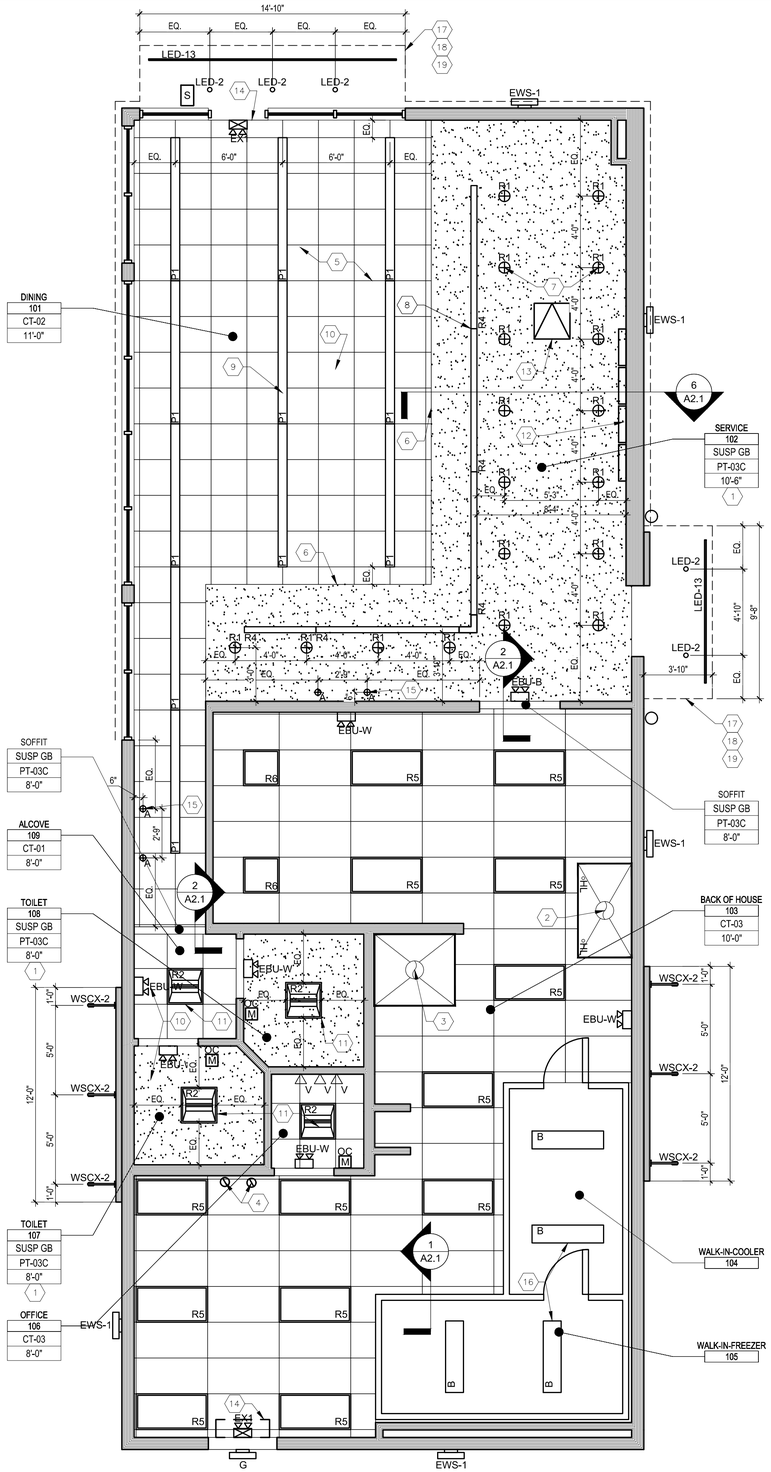
- 2x2 LAY-IN LED TROFFER LIGHT FIXTURE (R2)
- 2x4 LAY-IN LED LIGHT FIXTURE W/ LENS (R5)
- 2x2 LAY-IN LED LIGHT FIXTURE W/ LENS (R6)
- 2x4 LAY-IN LED TROFFER LIGHT FIXTURE (R7)
- EX1 WALL MTD EMERG LIGHT/ EXIT SIGN COMBO
- R1 LED RECESSED LIGHT FIXTURE
- C TRACK LIGHT
- R4 ORANGE LIGHT BAR FIXTURE
- P1 / P2 SUSPENDED LINEAR LED FIXTURE
- LED-12/ LED-13/ LED-14 EXTERIOR LED TAPE LIGHT
- LED-2 EXTERIOR RECESSED LIGHT FIXTURE
- A WALL WASH FIXTURE
- EBU WALL MTD EMERG LIGHT
- EMERGENCY LIGHT REMOTE HEAD
- SPEAKER
- GYPSUM BOARD CEILING
- 2"X2" CEILING GRID SYSTEM
- 2"X4" CEILING GRID SYSTEM
- M WALL-MTD OCCUPANCY SENSOR
- RETURN/CEILING EXHAUST REGISTER
- SUPPLY AIR DIFFUSER - 4 WAY
- FLUE
- ACCESS HATCH
- ORDER STATUS BOARD/ EXPEDITOR VDU
- EWS-1 WALL PACK
- G WALL PACK #2
- WSCX-2 EXTERIOR WALL MOUNT LIGHT

LIGHTING SCHEDULE - VILLA LIGHTING

CODE	DESCRIPTION	MANUFACTURER	PRODUCT
A	WALL-WASH FIXTURE- TO BE USED AT ARTWORK AND LROD SIGN	CONTECH	RL20SA3-35K-12-D/ CTR2002CLR-P
B	PROVIDED BY WALK-IN BOX MANUF.	VARIES	VARIES
C	TRACK LIGHT & HEAD- USED @ WALL W/ ART WORK AND WHERE CEILING IS OPEN	JUNO	R600L-35K-BL
EBU-W	ULTRA COMPACT LED EMERGENCY UNIT (WHITE)	EXITRONIX	EBU-W-LED-51-52
EBU-B	ULTRA COMPACT LED EMERGENCY UNIT- USED ON WT-02 WALL ONLY (BLACK)	EXITRONIX	EBU-BL-LED-51-52
EMR	EXTERIOR COMBO LED REMOTE EXIST LIGHT HEAD- USED ABOVE OR ADJACENT TO EXIT DOORS (GRAY)	EXITRONIX	MLED-2-G-WP
EWS-1	WALL PACK (GRAY) EXTERIOR- USED ON DARK WALL FINSIH	WAC	WP-LED227-30-AGH
EWS-2	WALL PACK (WHITE) EXTERIOR- USED ON LIGHT WALL FINISH	WAC	WP-LED227-30-AWT
G	WALL PACK - ABOVE SERVICE DOOR	COOPER	XTOR3A
EX1	COMBO LED EXIT SIGN W/ LIGHT HEADS (WHITE)	EXITRONIX	VLED-U-WH-EL90
BL	BATHROOM SCONCE	LUMENCIA	LLW260D3K-SN
LED 2	EXTERIOR RECESSED LIGHT FIXTURE- USED UNDER ORANGE BEAM/ CANOPY	LUMARK	XTOR2B-W
LED 11	NOT USED		
LED 12	EXTERIOR LIGHT FIXTURE- USED ON TOP OF CHARCOAL TRIM AND FIELD FRAMED ORANGE BEAM	SOLID STATE LUMINARIES SOLUTIONS OF LIGHTING	SSL-LSSL-5165-400 LUMENS
LED 13	EXTERIOR LIGHT FIXTURE- USED ON TOP OF AND ON THE UNDERSIDE OF THE ORANGE BEAM WHEN USING THE PREFAB		TO BE PROVIDED BY PREFAB ORANGE BEAM VENDOR
LED 14	EXTERIOR LIGHT FIXTURE - ACCENT LIGHT USED ON TOP OF CHARCOAL TRIM AT BASE OF MONOLITH ONLY	LED POWER	HB308-48"-41K-15D-AC
OC	WALL MOUNTED OCCUPANCY SENSOR	WATTSTOPPER	WS-250-W
P1	8' SUSPENDED LINEAR LIGHT FIXTURE- USED IN SEATING/ SALES AREA	TEXAS FLUORESCENTS	SES-FR-96L-S62W6200L-DMV-35K-BK
P2	4' SUSPENDED LINEAR LIGHT FIXTURE- USED IN SEATING/ SALES AREA	TEXAS FLUORESCENTS	SES-FR-48L-S62W3100L-DMV-35K-BK
P3	PENDANT CHANDELIER- USED ABOVE COMMUNITY TABLE	TECH LIGHTING	700TD-ALVPMC-OS-LED930
R1	RECESSED LED LIGHT FIXTURE	CREE	RC6/CR6T-1600L-35K
R2	2X2 LAY-IN TROFFER LED LIGHT FIXTURE, USED IN FRONT OF	CREE	CR22-32L-35K-S-HD
R3	4" LED ADJ DOWNLIGHT, 400K, 200 LUMEN	NORA	NCH-436-L20-40-D-SF
R4	LED LINEAR LIGHT BAR- USED ABOVE FRONT LINE [NOTE: AVAILABLE IN INCREMENTS OF 1FT WITH A 1FTx1FT CORNER	PINNACLE ARCHITECTURAL LIGHTING	EX3D-A-N-835VHO-8-S/AC120ST
R5	2X4 LAY-IN LED LIGHT FIXTURE, USED IN BACK OF HOUSE	LSI	SFP24-LED-50-UE-DIM-35-U
R6	2X2 LAY-IN LED LIGHT FIXTURE, USED OVER SERVICE AREA - REMODELS ONLY	LSI	SFP22-LED-UE-30-DIM-35-U
R7	2X4 LAY-IN TROFFER LED LIGHT FIXTURE, USED IN FRONT OF HOUSE - REMODELS ONLY	CREE	CR24-40L-35K-S-HD
WSCX-2	EXTERIOR SIGN LIGHT FIXTURE - USED AT ACCENT PANELS	HI-LITE MFG INC.	H-HDMR16/18-1-119/ MR16AD1C293010T-10-S1

LIGHTING SCHEDULE NOTES

1. PROVIDE ALL FIXTURES COMPLETE WITH LAMPS. REF. NATIONAL ACCOUNT SOURCE INFO FOR LAMP SPECS & VILLA LIGHTING RE-LAMPING PROGRAM.
2. ALL BALLASTS SHALL BE HIGH POWER FACTOR.
3. PROVIDE HOLD-DOWN CLIPS FOR EACH CORNER OF FLUORESCENT GRID TROFFERS.
4. COORDINATE AND VERIFY ALL FIXTURE INFORMATION, TYPES AND FINAL LOCATIONS WITH THE REFLECTED CEILING PLAN.
5. LAMPS SHALL BE AS MANUFACTURED BY SYLVANIA, WESTINGHOUSE, GENERAL ELECTRIC OR APPROVED EQUAL.



1 REFLECTED CEILING PLAN

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

SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS

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DKN - CHARLESTOWN, IN
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REFLECTED CEILING PLAN, SCHEDULE & NOTES

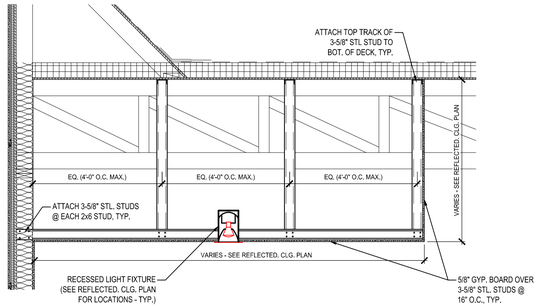
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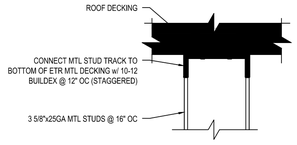
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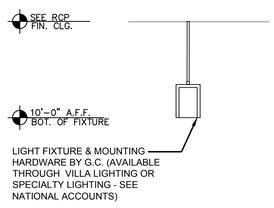
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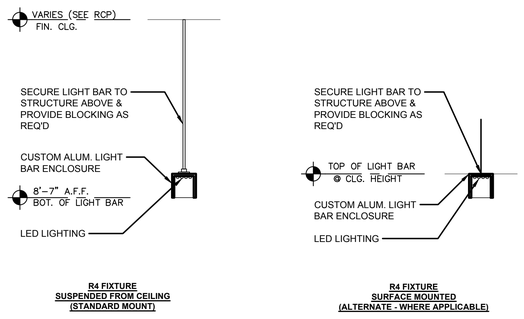
6 TYP. SOFFIT DETAIL @ SERVICE
SCALE: 1/2" = 1'-0"



3 TYP. SOFFIT CONNECTION DETAIL
SCALE: 3" = 1'-0"



5 'P-1' & 'P-2' DETAIL @ DINING
SCALE: 1" = 1'-0"



NOTES:

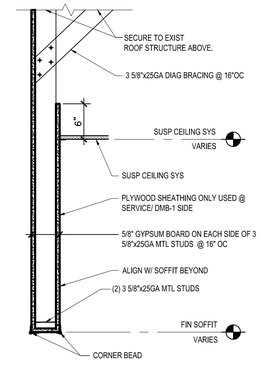
1) LOCATIONS WITH GYP. CLG. TO HAVE R4 FIXTURE SUSPENDED FROM CLG. @ 8'-7" A.F.F.

2) LOCATIONS WITH ACT CLG. TO HAVE R4 FIXTURE SURFACE MOUNTED

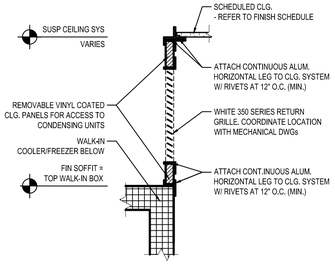
3) LIGHT BAR ENCLOSURE TO HAVE CUSTOM COLOR TO MATCH DD ORANGE PMS #165c; FOR COMBO STORES LIGHT BAR ENCLOSURE OVER BASKIN ROBBINS FRONTLINE TO HAVE CUSTOM COLOR TO MATCH DD MAGENTA PMS #219c.

4) LIGHT FIXTURE & MOUNTING HARDWARE BY G.C. (AVAILABLE THROUGH VILLA LIGHTING OR SPECIALTY LIGTHING – SEE NATIONAL ACCOUNTS)

4 'R4' LIGHT BAR DETAIL @ FRONTLINE
SCALE: 1" = 1'-0"



2 SOFFIT DETAIL
SCALE: 1" = 1'-0"



1 WALK-IN-BOX SOFFIT DETAIL
SCALE: 1" = 1'-0"

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A2.1

Kolbrook Job No.	1502.236	Consultant Job No.	-

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ESR-1289
NEW SUSPENDED CEILING TO BE
WORTHINGTON ARMSTRONG VENTURE
NON FIRE RESISTANCE-RATED SYSTEM.

PER DOCUMENT NO: P/BC 2020-040

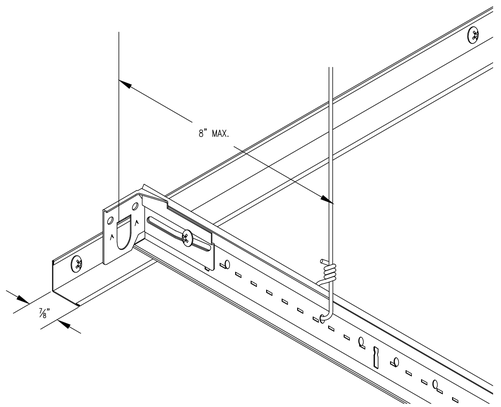
MINIMUM INSTALLATION REQUIREMENTS
VERTICAL SUPPORT
A. HANGER WIRES SUPPORTING A MAXIMUM TRIBUTARY CEILING AREA OF 16 SQUARE FEET SHALL BE A MINIMUM OF 12 GAUGE IN DIAMETER. THE SIZE OF WIRES SUPPORTING A TRIBUTARY CEILING AREA OF GREATER THAN 16 SQUARE FEET SHALL BE SUBSTANTIATED BY DESIGN CALCULATIONS.
B. HANGER ATTACHMENT DEVICES USED IN CEILING SYSTEMS NOT EXCEEDING FOUR POUNDS PER SQUARE FOOT SHALL BE CAPABLE OF SUPPORTING A MINIMUM ALLOWABLE LOAD OF 100 POUNDS.
HANGER ATTACHMENT DEVICES USED IN CEILING SYSTEMS EXCEEDING FOUR POUNDS PER SQUARE FOOT SHALL BE CAPABLE OF SUPPORTING THE DESIGN LOAD AND SHALL BE SUBSTANTIATED BY DESIGN CALCULATIONS.
C. HANGERS SHALL BE PLUMB AND SHALL NOT ATTACH TO OR BEND AROUND INTERFERING DUCT PIPES OR SIMILAR OBSTRUCTIONS. IF HANGERS MUST BE SPLAYED MORE THAN ONE HORIZONTAL TO SIX VERTICAL THE RESULTING HORIZONTAL FORCE SHALL BE OFFSET BY BRACING, COUNTERSPLAYING OR OTHER ACCEPTABLE MEANS AND SUBSTANTIATED BY DESIGN CALCULATIONS.
D. PERIMETER HANGERS.
THE TERMINAL END OF EACH CROSS RUNNER OR MAIN RUNNER SHALL BE INDEPENDENTLY SUPPORTED AND WITHIN EIGHT INCHES OF A WALL.

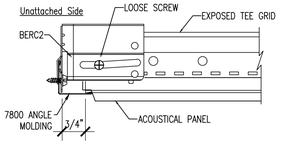
LATERAL SUPPORT
LATERAL SUPPORT FOR THE CEILING SYSTEM MAY BE PROVIDED BY FOUR WIRES OF MINIMUM NO. 12 GAUGE SPLAYED IN FOUR DIRECTIONS 90 DEGREES APART AND CONNECTED TO THE MAIN RUNNER WITHIN TWO INCHES OF THE CROSS RUNNER AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. THESE LATERAL SUPPORT POINTS SHALL BE PLACED 12 FEET O.C. IN EACH DIRECTION WITH THE FIRST POINT WITHIN FOUR FEET FROM EACH WALL.

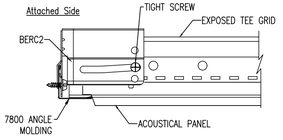
ATTACHMENT OF MEMBERS TO THE PERIMETER
ALLOWANCE SHALL BE MADE FOR LATERAL MOVEMENT OF THE SYSTEM. MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED AT TWO ADJACENT WALLS WITH CLEARANCE BETWEEN THE WALL AND THE RUNNERS MAINTAINED AT THE OTHER TWO WALLS.

LIGHTING FIXTURE AND AIR DIFFUSER SUPPORTS
LIGHTING FIXTURES AND AIR DIFFUSERS SHALL BE SUPPORTED DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
EXCEPTIONS:
a. RECESSED LIGHTING FIXTURES NOT OVER 56 POUNDS IN WEIGHT AND SUSPENDED AND INDEPENDENTLY HUNG FIXTURES NOT OVER 20 POUNDS IN WEIGHT MAY BE SUPPORTED AND ATTACHED DIRECTLY TO THE CEILING SYSTEM RUNNERS BY A POSITIVE ATTACHMENT SUCH AS SCREWS OR BOLTS.
b. AIR DIFFUSERS WHICH WEIGH NOT MORE THAN 20 POUNDS AND WHICH RECEIVE NO TRIBUTARY LOADING FROM DUCT WORK MAY BE POSITIVELY ATTACHED TO AND SUPPORTED BY THE CEILING RUNNERS.

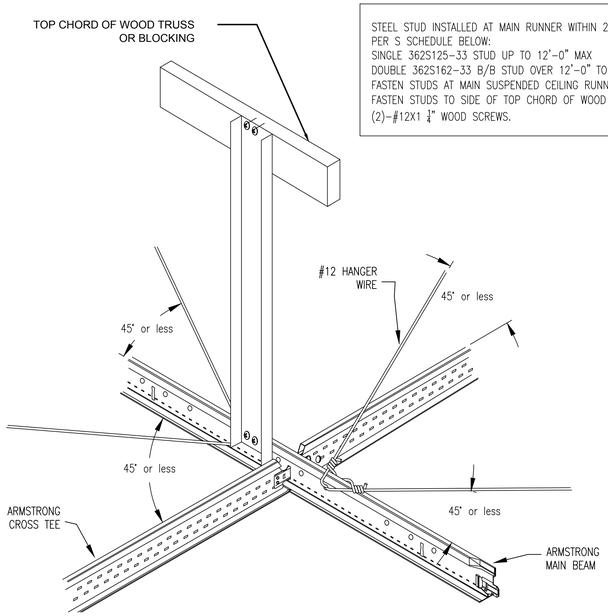
PERIMETER MEMBERS
A MINIMUM WALL ANGLE SIZE OF AT LEAST A TWO INCH (51 MM) HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITIONS. THE FIRST CEILING TILE SHALL MAINTAIN 3/4-INCH (19 MM) CLEAR FROM THE FINISH WALL SURFACE. AN EQUIVALENT ALTERNATIVE DETAIL THAT WILL PROVIDE SUFFICIENT MOVEMENT DUE TO ANTICIPATED LATERAL BUILDING DISPLACEMENT MAY BE USED IN LIEU OF THE LONG LEG ANGLE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT OF BUILDING





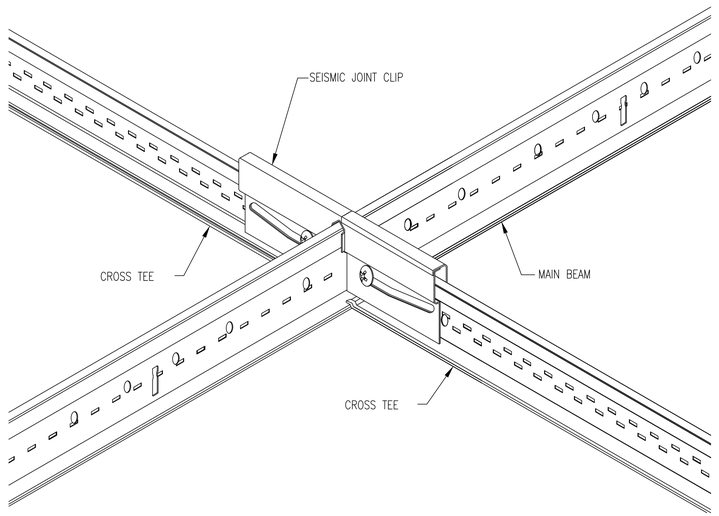


2 CEILING GRID MEMBERS DETAILS
SCALE: 1 1/2" = 1'-0"



STEEL STUD INSTALLED AT MAIN RUNNER WITHIN 2" OF CROSSRUNNER PER S SCHEDULE BELOW:
SINGLE 362S125-33 STUD UP TO 12'-0" MAX
DOUBLE 362S162-33 B/B STUD OVER 12'-0" TO 15'-0"
FASTEN STUDS AT MAIN SUSPENDED CEILING RUNNER W/(2)-#12 SMS
FASTEN STUDS TO SIDE OF TOP CHORD OF WOOD TRUSSES W/ (2)-#12X1 ¼" WOOD SCREWS.

3 STEEL STUD COMPRESSION POST DETAIL
SCALE: N.T.S.



1 SEISMIC JOINT CLIP DETAIL
SCALE: 3" = 1'-0"

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CEILING GRID DETAILS & NOTES

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A2.2

Kolbrook Job No.	1502.236	Consultant Job No.	-

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FINISH FLOOR PLAN NOTES

1. NO TILE AT MOP SINK AND WALK-IN BOX LOCATIONS.
2. PROVIDE SCHLUTER STRIP BETWEEN ALL EXPOSED TILE TRANSITIONS (TYP.)
3. TILE WORK POINT.
4. G.C. TO PROVIDE AND INSTALL TILE WALL BASE AT FRONTLINE MILLWORK.
5. NEW CONCRETE FLOOR TO BE POURED AFTER UNDERGROUND PLUMBING IS INSTALLED. PREP FOR FINISH FLOOR.

FINISH FLOOR SCHEDULE

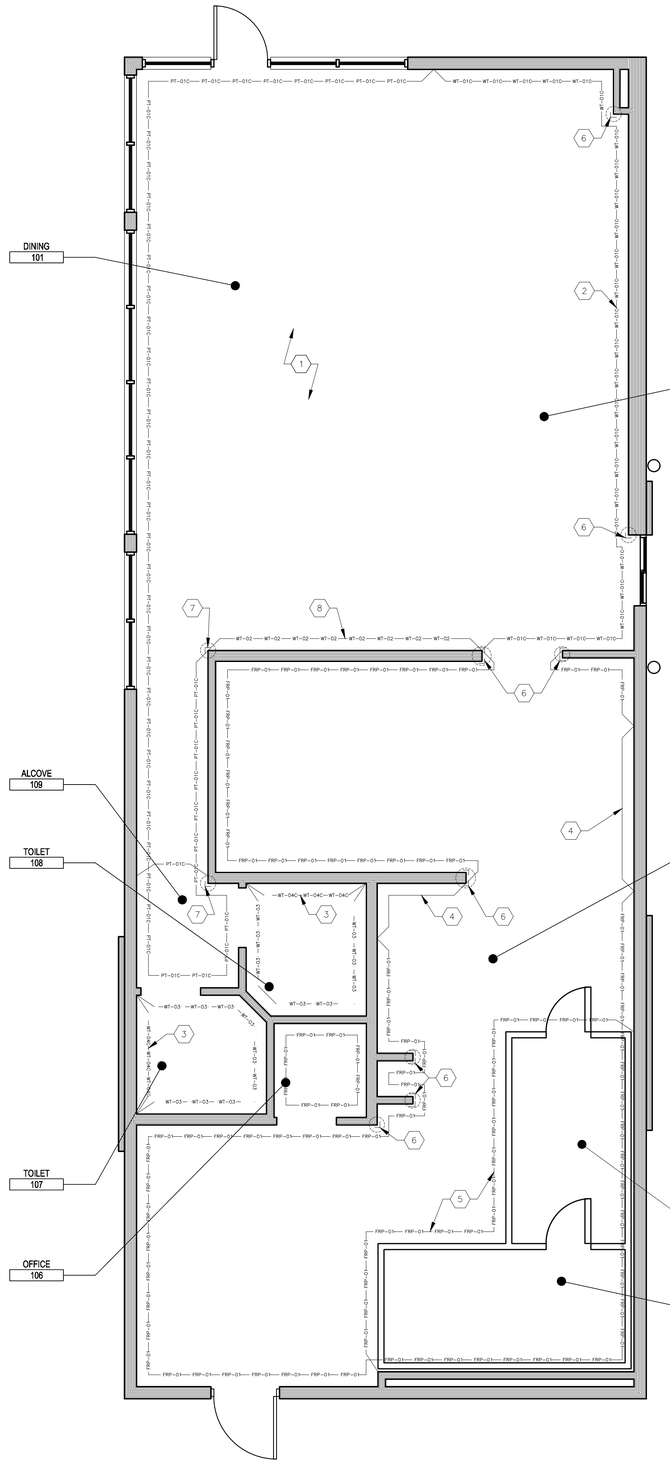
CODE	MATERIAL	MANUFACTURER	PRODUCT #
FT-01 (C)	PORCELAIN TILE	DAL TILE	PF05 "ASH GRAY STD"
FTB-01 CUT (C)	PORCELAIN TILE	DAL TILE	PF05 "ASH GRAY STD"
FT-02	QUARRY TILE	DAL TILE	0T03 "ASH GRAY STD"
FTB-01 COVE (C)	QUARRY TILE	DAL TILE	0T03 "ASH GRAY STD"

FINISH WALL PLAN NOTES

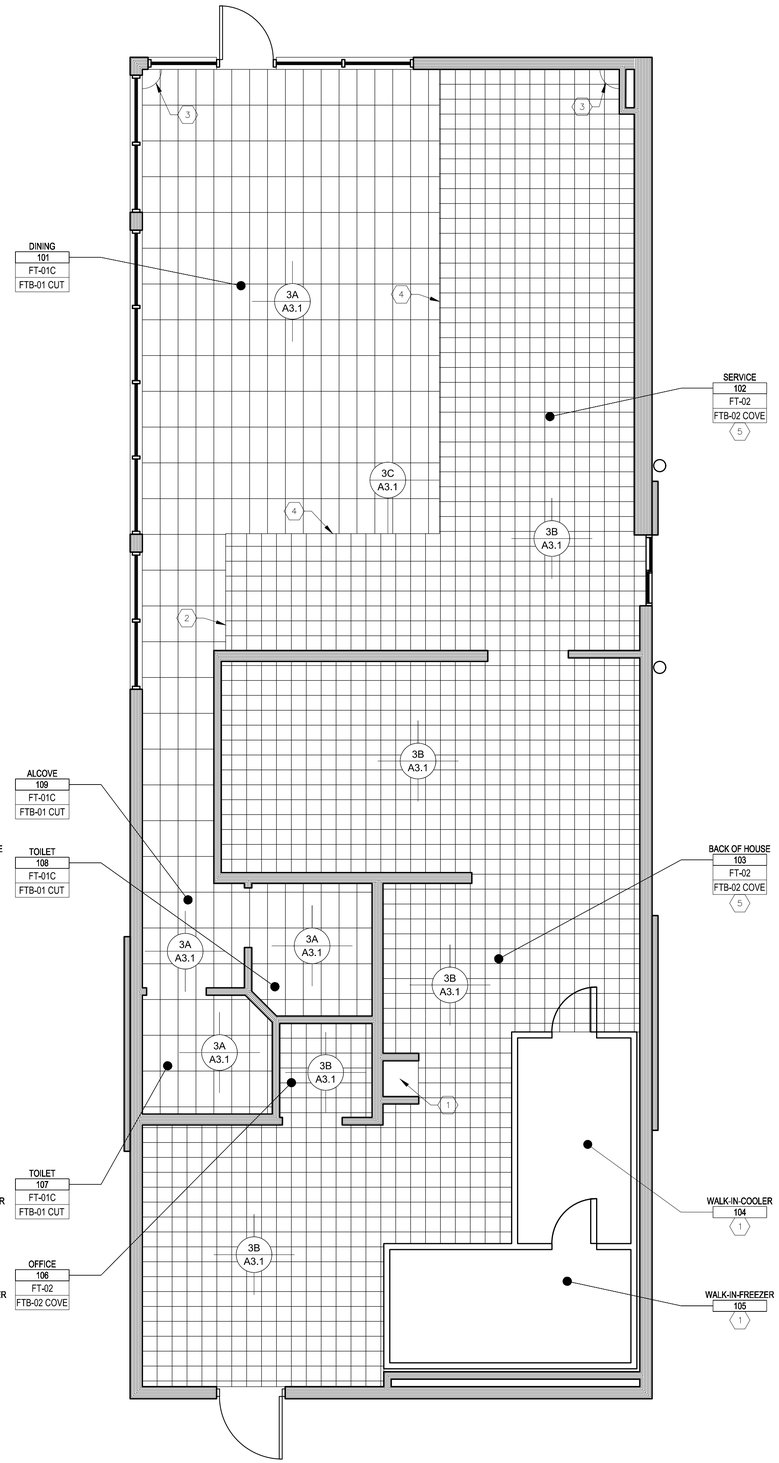
1. NEW WALL PROTECTION TO BE INSTALLED IN ALL PUBLIC AREAS THAT ARE PAINTED. SEE DETAIL 1/A3.1.
2. SEE DETAIL 2/A3.1 FOR TILE/FRP PATTERN ON BACK LINE.
3. SEE DETAIL 3/A3.1 FOR RESTROOM ACCENT (WT-04) TILE PATTERN. ACCENT TILE TO BE PLACED ON WALL WITH LEAST ACCESSORIES BUT NOT WALL WITH DOOR.
4. STAINLESS STEEL WALL COVERING BEHIND SANDWICH STATION AND BACK OF HOUSE OVEN.
5. FRP-01 TO BE INSTALLED AT INTERIOR WALK-IN-BOX SURROUNDING WALLS.
6. 2" X 2" BRUSHED STAINLESS STEEL CORNER GUARDS, FULL LENGTH OF CORNER UP TO CEILING (TYPICAL THROUGHOUT BACK OF HOUSE).
7. PROVIDE CLEAR ANODIZED ALUM EDGE TRIM (SCHLUTER "JOLLY") FOR FULL HEIGHT OF WALL AT EXTERNAL CORNERS AND ALL LOCATIONS WHERE TILE ENDS.
8. LROD PANEL ON WT-02.

FINISH WALL SCHEDULE

CODE	MATERIAL	MANUFACTURER	PRODUCT #
PT-01C	PAINT	SHERWIN WILLIAMS	SW 7671 "ON THE ROCKS"
WT-01C	PORCELAIN TILE	DAL TILE	DB DUNKIN SWITCH ACCENT 12"X24"
WT-02	PORCELAIN TILE	DAL TILE	PF09 "CHARCOAL" #PF096241PK
WT-03	PORCELAIN TILE	DAL TILE	DB FIELD-6"X18" ARCTIC WHITE #0790 MATTE
WT-04C	PORCELAIN TILE	DAL TILE	DB BLOCK PARTY 6"X6" 2 TILE ACCENT
FRP-01	FIBERGLASS REINFORCED PANELS	CRANE COMPOSITES	GLASSBOARD COLOR: 48-PEARL GRAY TEXTURE: EMBOSSED



2 FINISH WALL PLAN
SCALE: 3/16" = 1'-0"



1 FINISH FLOOR PLAN
SCALE: 3/16" = 1'-0"

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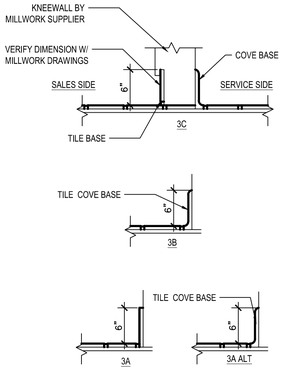
FINISH FLOOR PLAN, FINISH WALL PLAN, NOTES, & SCHEDULES

SHEET NO.

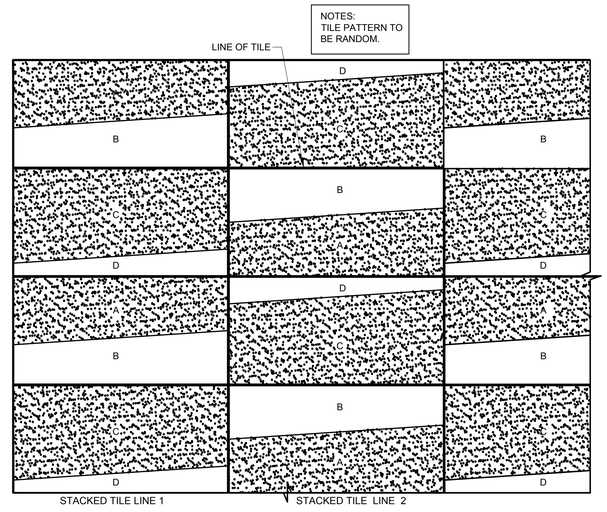
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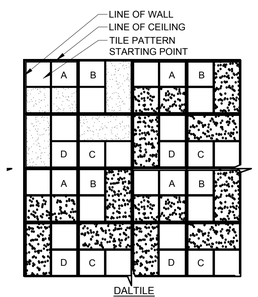
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4 TILE BASE DETAILS
SCALE: 1" = 1'-0"

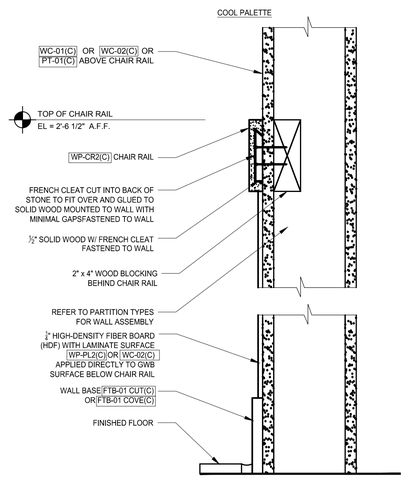


2 WALL TILE/FRP INSTALLATION PATERN @ BACKLINE
SCALE: 1 1/2" = 1'-0"



NOTES:
TILE PATTERN TO BE RANDOM. INSTALL PER THE GUIDELINES BELOW:
- TILE A - START OF TILE PATTERN.
- TILE B = TILE "A" ROTATED COUNTER CLOCKWISE 90 DEG.
- TILE C = TILE "B" ROTATED COUNTER CLOCKWISE 90 DEG.
- TILE D = TILE "C" ROTATED COUNTER CLOCKWISE 90 DEG.

3 ACCENT WALL TILE PATTERN @ RESTROOM
SCALE: 1 1/2" = 1'-0"



OPTION 2a

1 WALL PROTECTION OPTIONS AND DETAILS
SCALE: 1- 1/2" = 1'-0"

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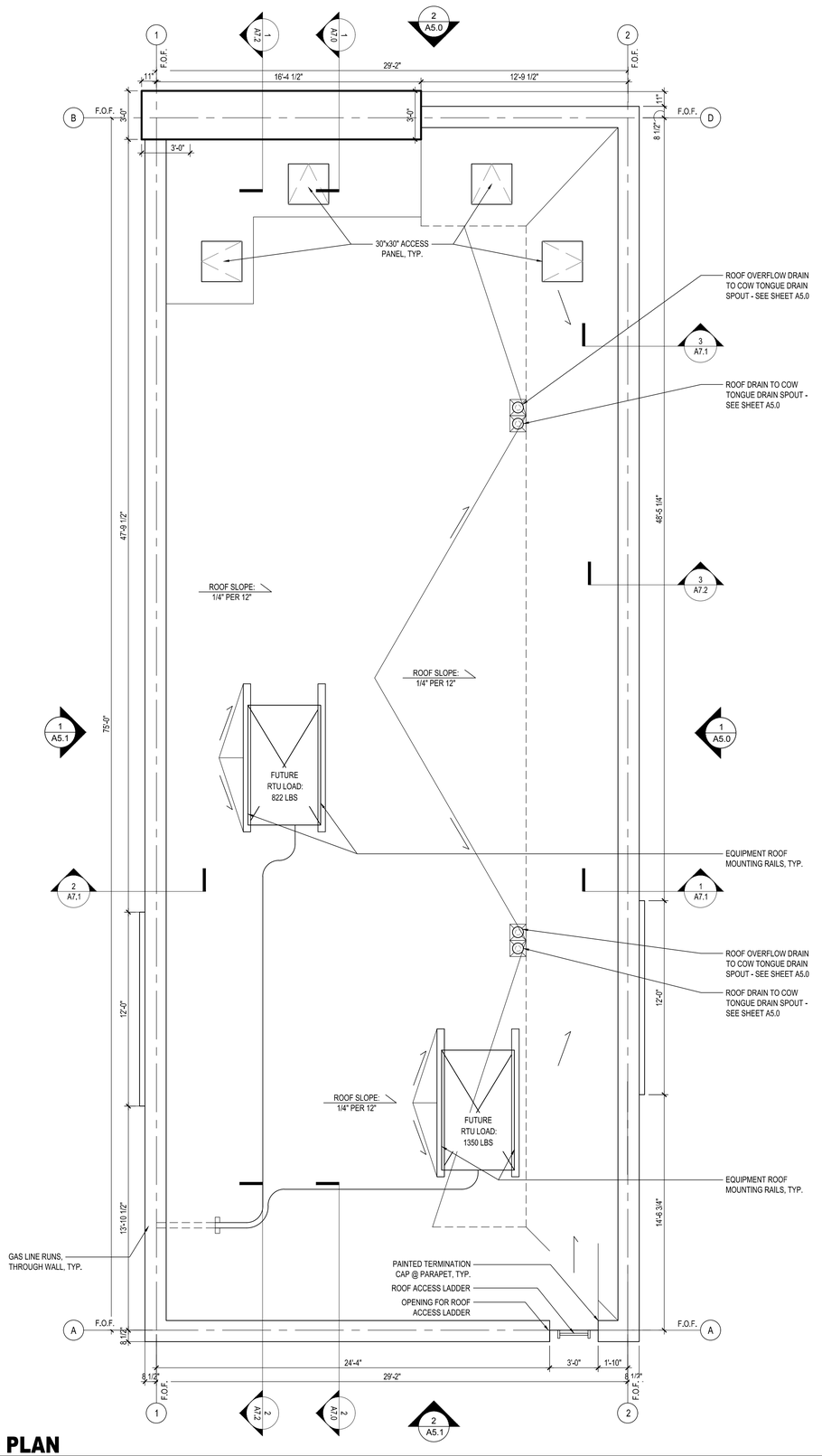
FLOOR & WALL FINISH DETAILS

SHEET NO.

A3.1

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

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ROOF PLAN

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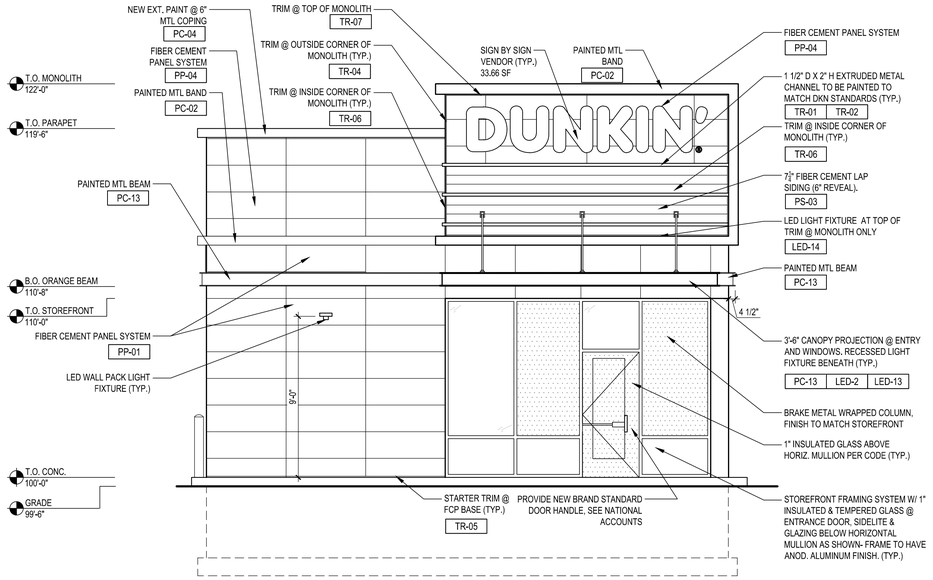
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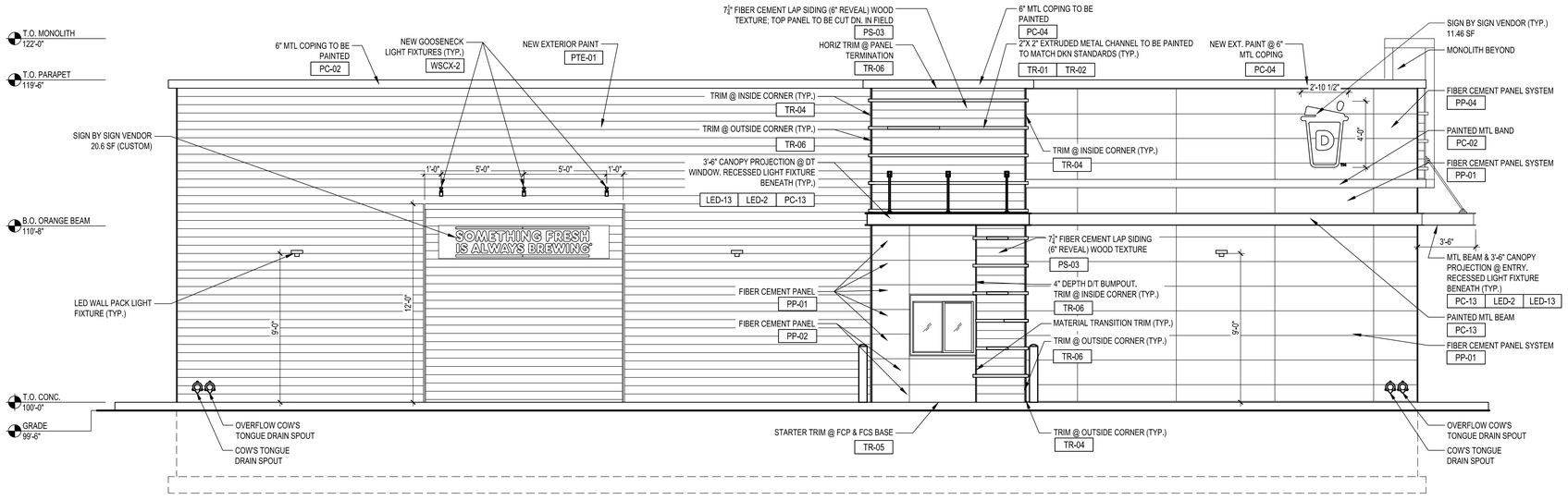
GENERAL NOTES

- WALL SIGNS SHOWN FOR REFERENCE ONLY. SIGNAGE TO BE SUBMITTED UNDER SEPARATE COVER BY SELECTED SIGNAGE SUB-CONTRACTOR.
- ELEVATIONS DRAWN TO REPRESENT FIBER CEMENT PANEL CLADDING SYSTEM BY NICHIHA (PP). IF CONTRACTOR TO USE FCP BY JAMES HARDIE (PS-LP), ARCHITECT TO BE NOTIFIED.



2 EAST ELEVATION

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



1 SOUTH ELEVATION

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

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PROPOSED EXTERIOR ELEVATIONS

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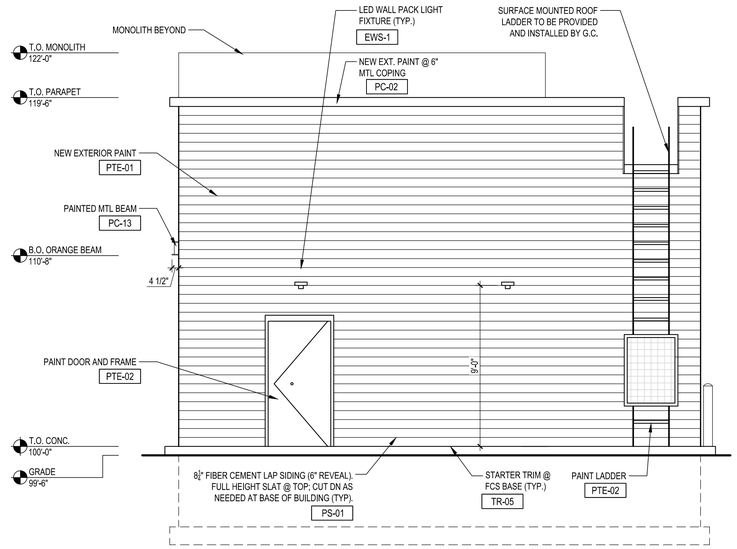
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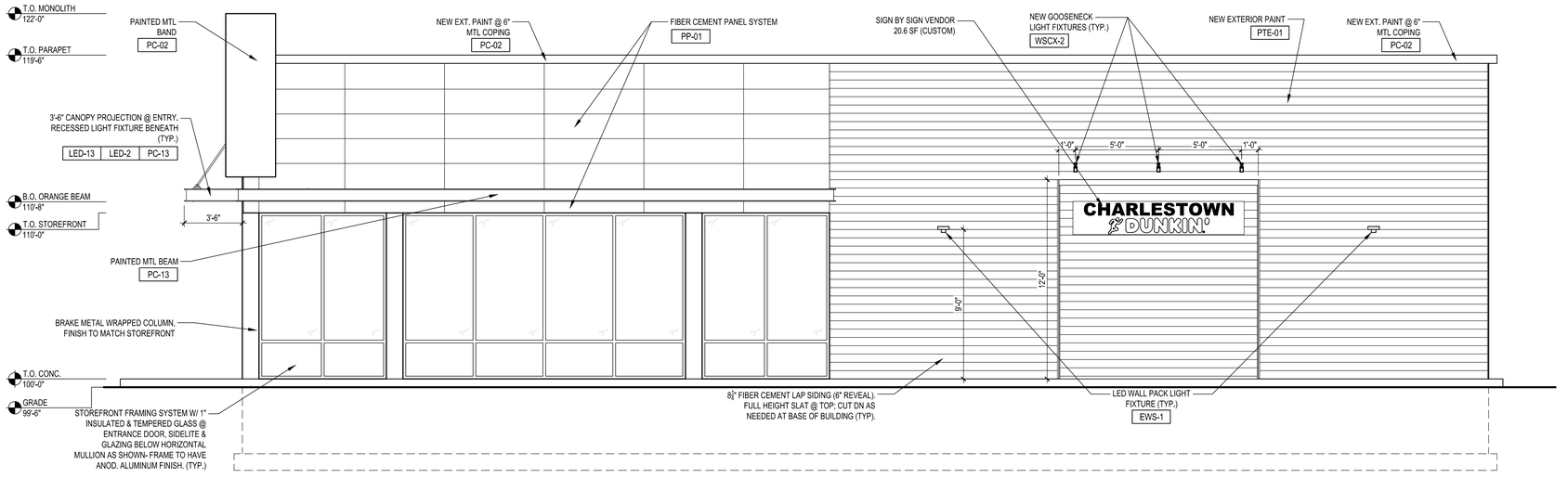
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2 WEST ELEVATION

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



1 NORTH ELEVATION

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

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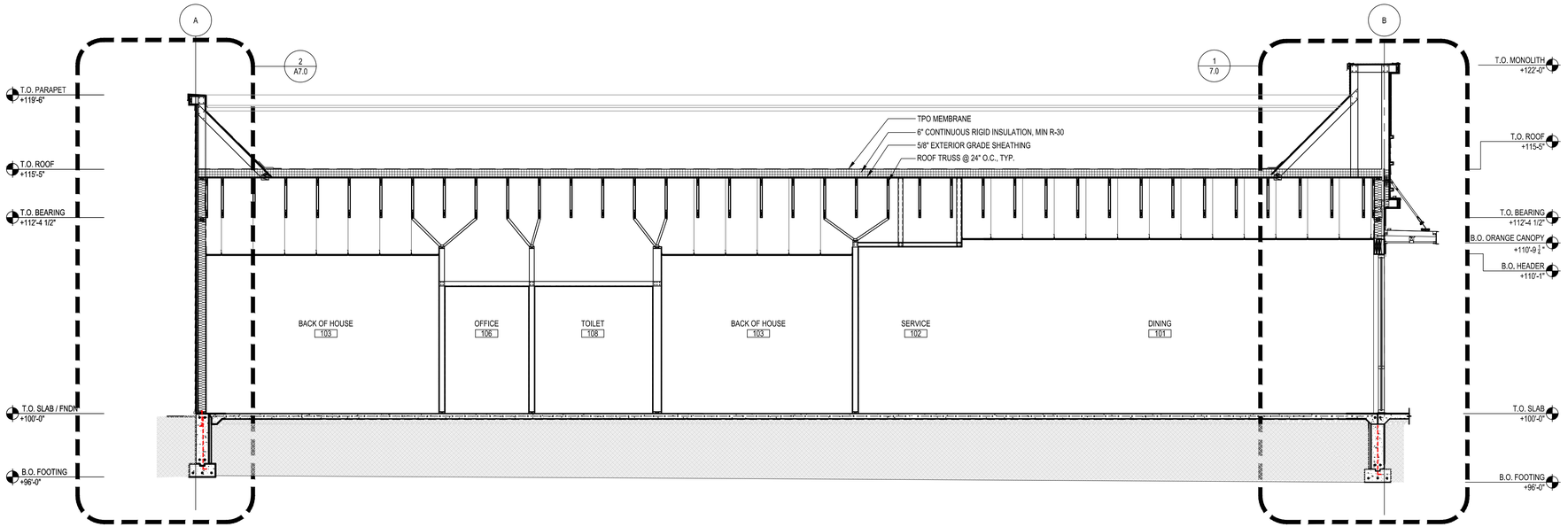
PROPOSED EXTERIOR ELEVATIONS

SHEET NO.

A5.1

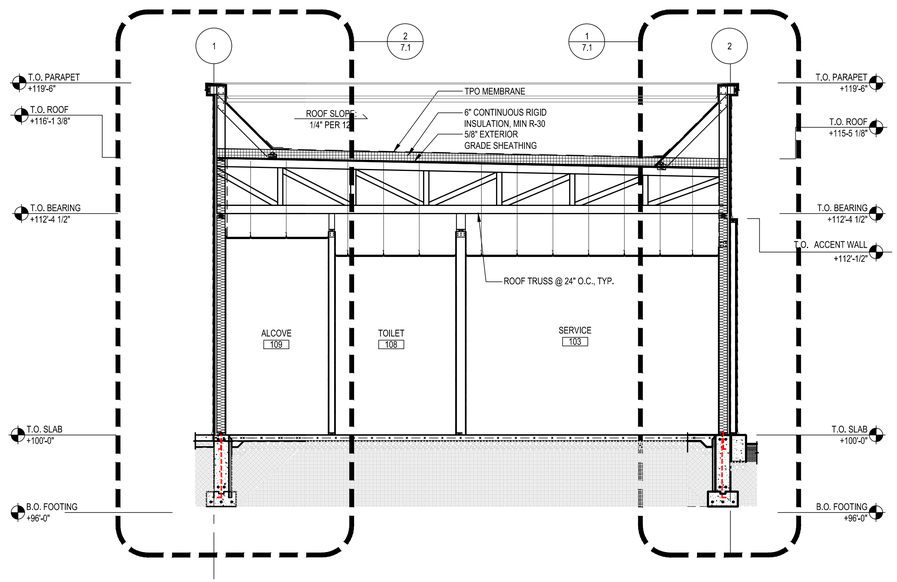
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2 BUILDING SECTION

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



1 BUILDING SECTION

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

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BUILDING SECTIONS

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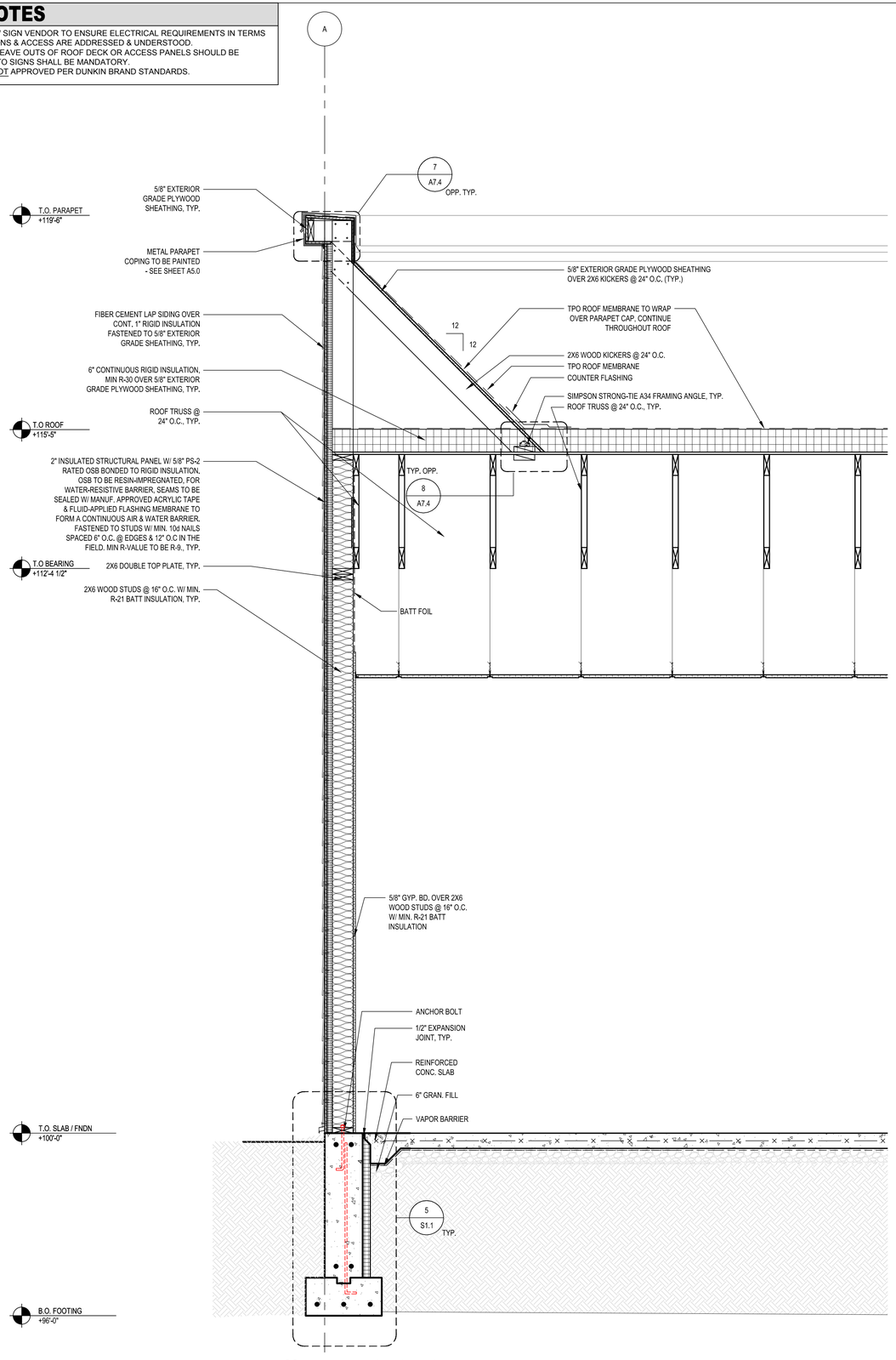
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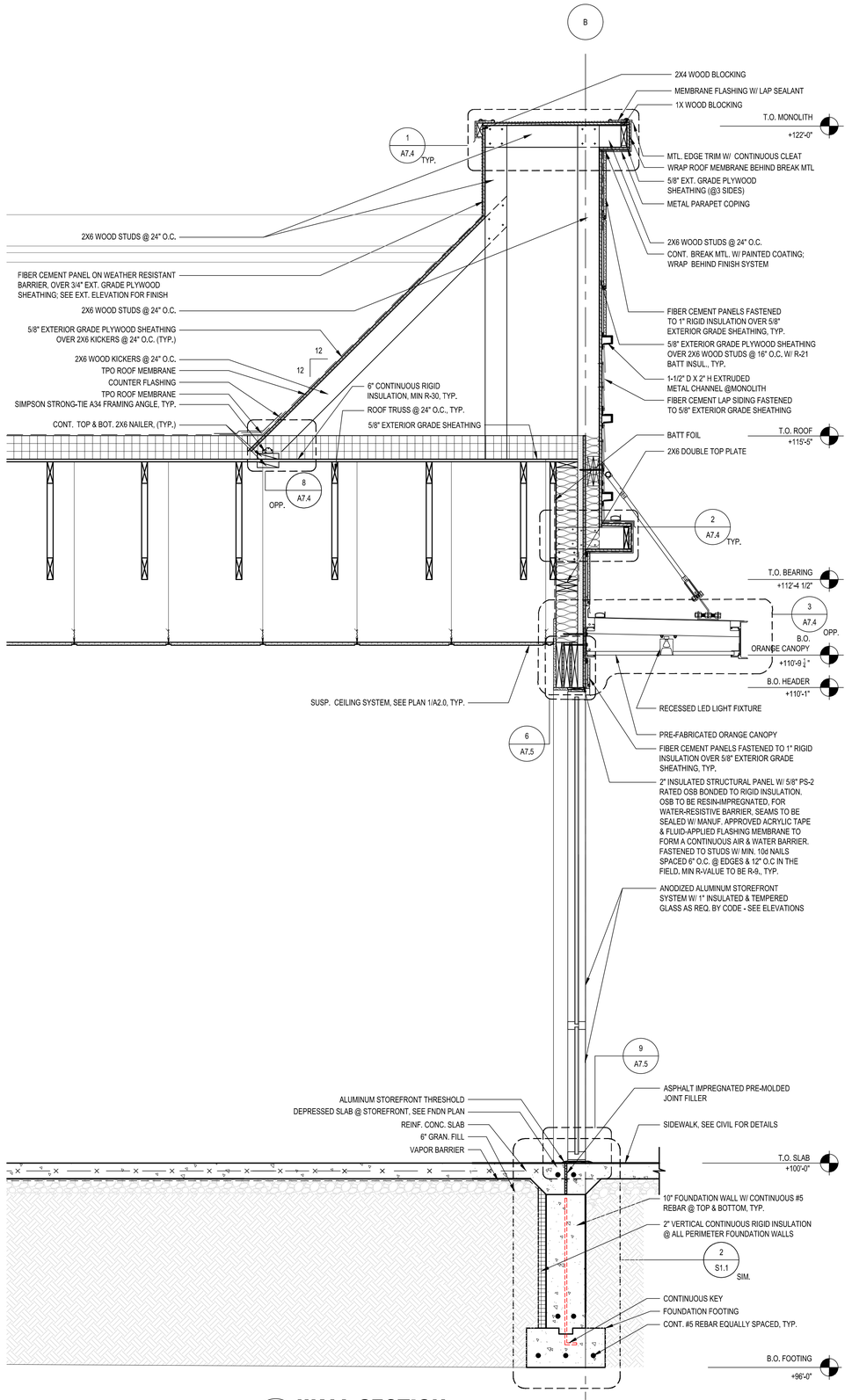
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SIGNAGE NOTES

1. G.C. TO COORDINATE W/ SIGN VENDOR TO ENSURE ELECTRICAL REQUIREMENTS IN TERMS OF J BOX/WHIP LOCATIONS & ACCESS ARE ADDRESSED & UNDERSTOOD.
2. UPON COORDINATION, LEAVE OUTS OF ROOF DECK OR ACCESS PANELS SHOULD BE CONSIDERED. ACCESS TO SIGNS SHALL BE MANDATORY.
3. RACEWAY SIGNS ARE NOT APPROVED PER DUNKIN BRAND STANDARDS.



2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

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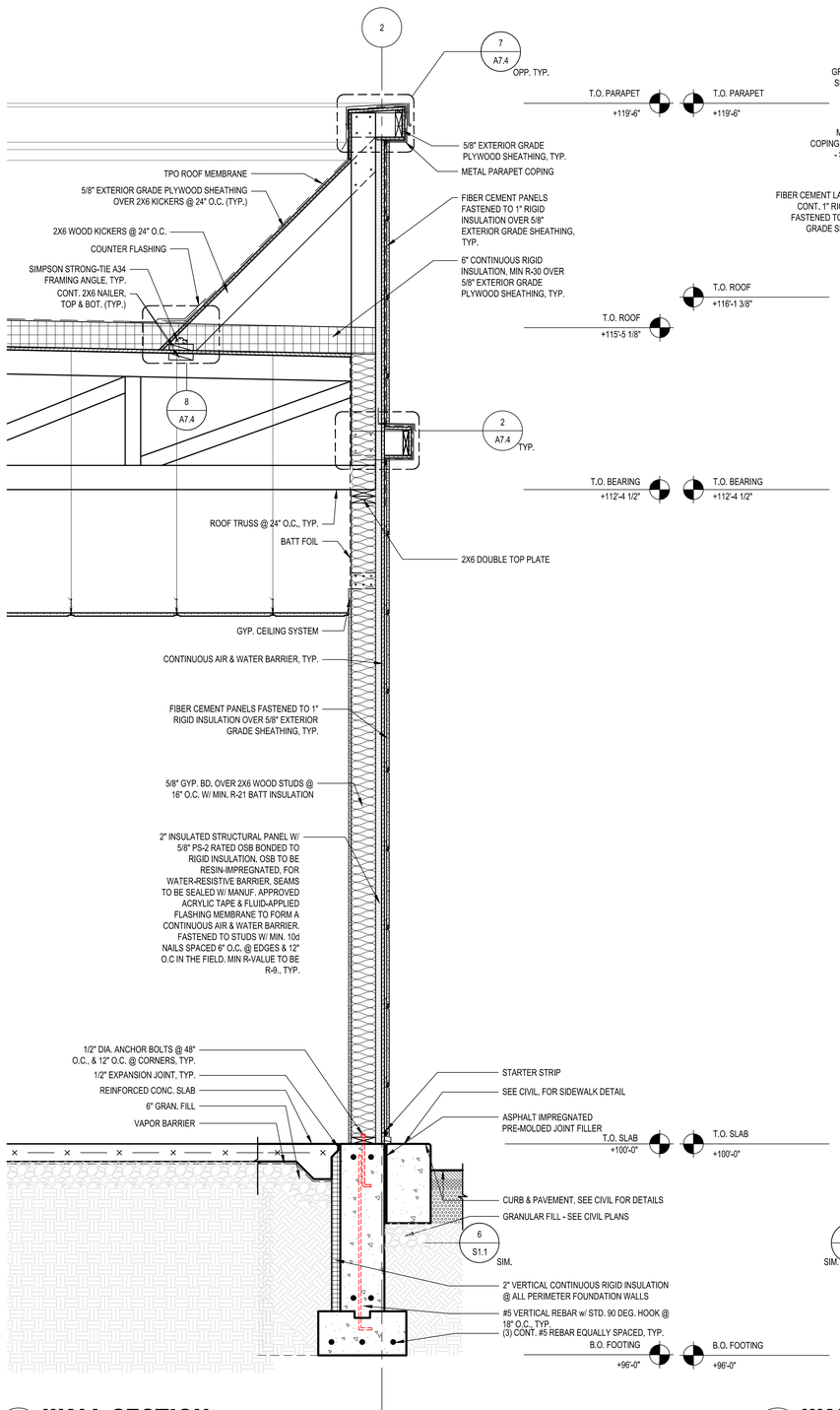
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Kolbrook Job No.	1502.236	Consultant Job No.	-

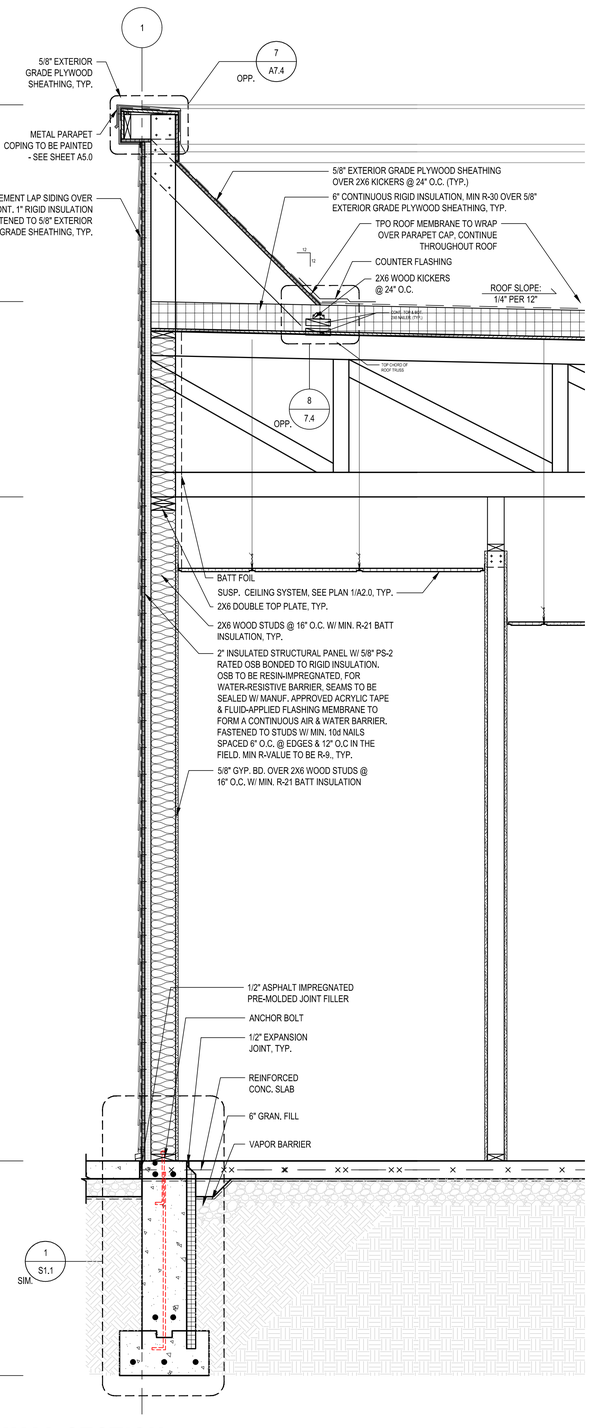
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SIGNAGE NOTES

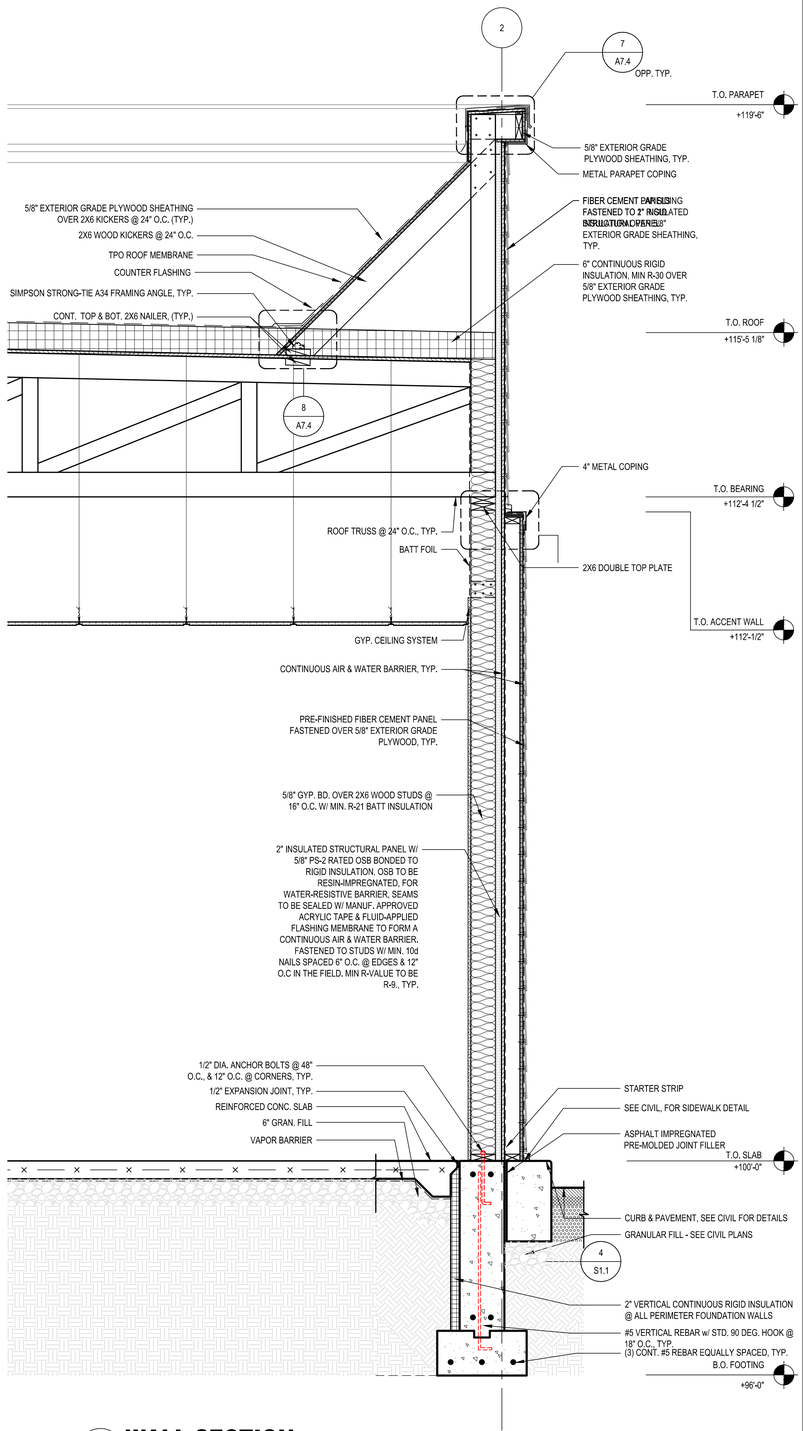
1. G.C. TO COORDINATE W/ SIGN VENDOR TO ENSURE ELECTRICAL REQUIREMENTS IN TERMS OF J BOX/WHIP LOCATIONS & ACCESS ARE ADDRESSED & UNDERSTOOD.
2. UPON COORDINATION, LEAVE OUTS OF ROOF DECK OR ACCESS PANELS SHOULD BE CONSIDERED. ACCESS TO SIGNS SHALL BE MANDATORY.
3. RACEWAY SIGNS ARE NOT APPROVED PER DUNKIN BRAND STANDARDS.



3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

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DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

ARCHITECT

kolbrook design
828 DAVIS ST. SUITE 300
EVANSTON, IL 60201
OFFICE: 847.492.1992 | FAX: 312.453.0699

REGISTERED ARCHITECT No.11100072 STATE OF ILLINOIS

EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE.

WALL SECTIONS

SHEET NO.

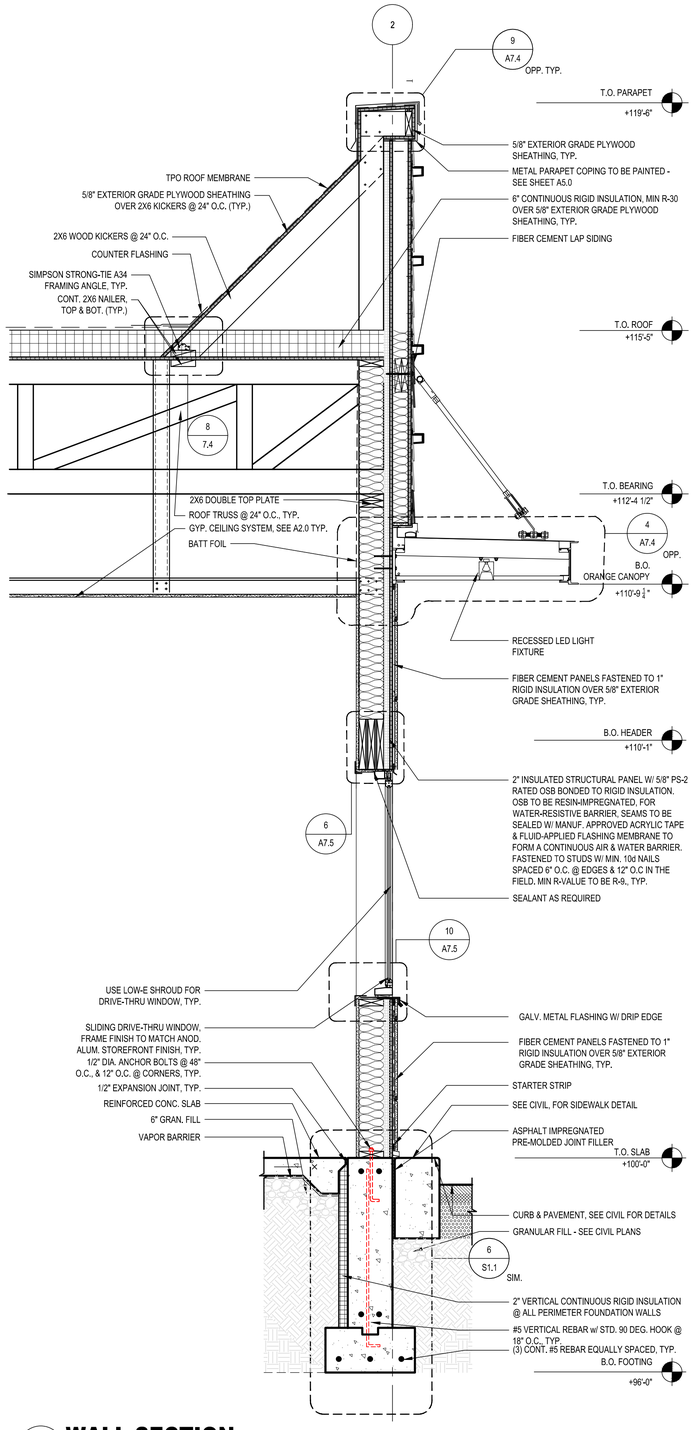
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Kolbrook Job No.	1502.236	Consultant Job No.	-

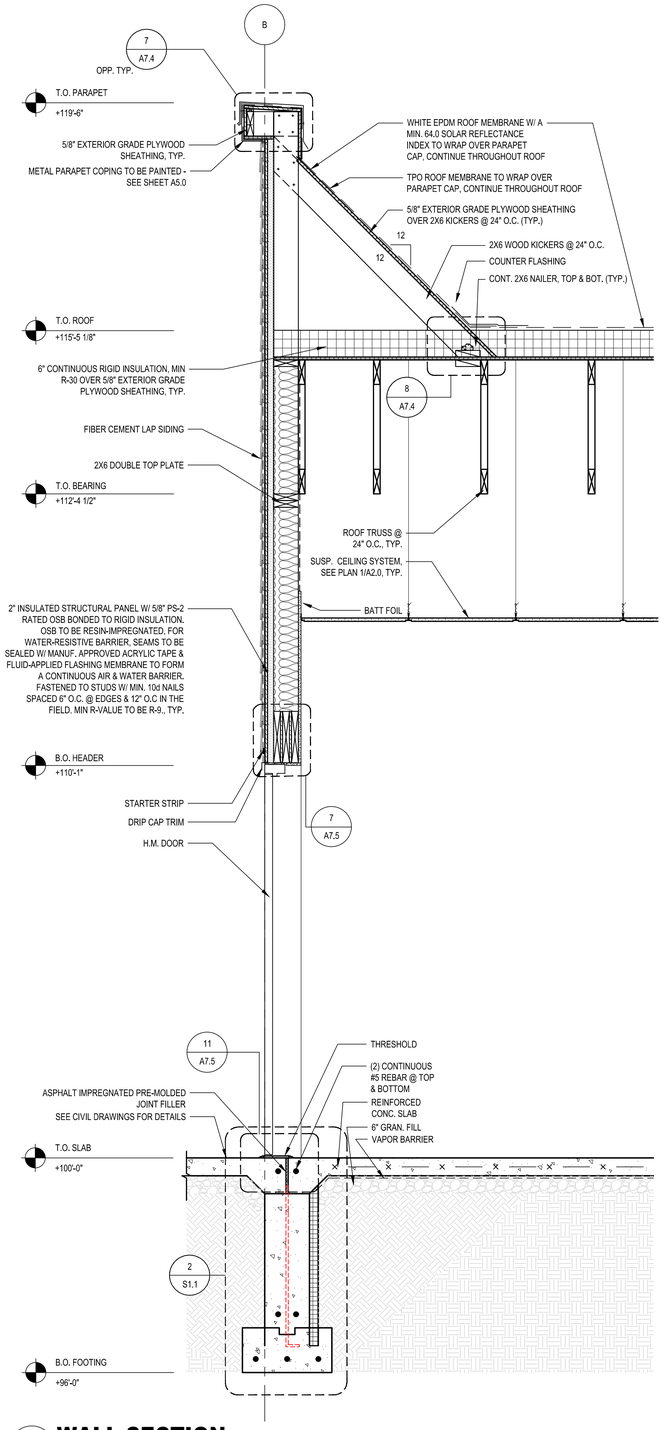
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SIGNAGE NOTES

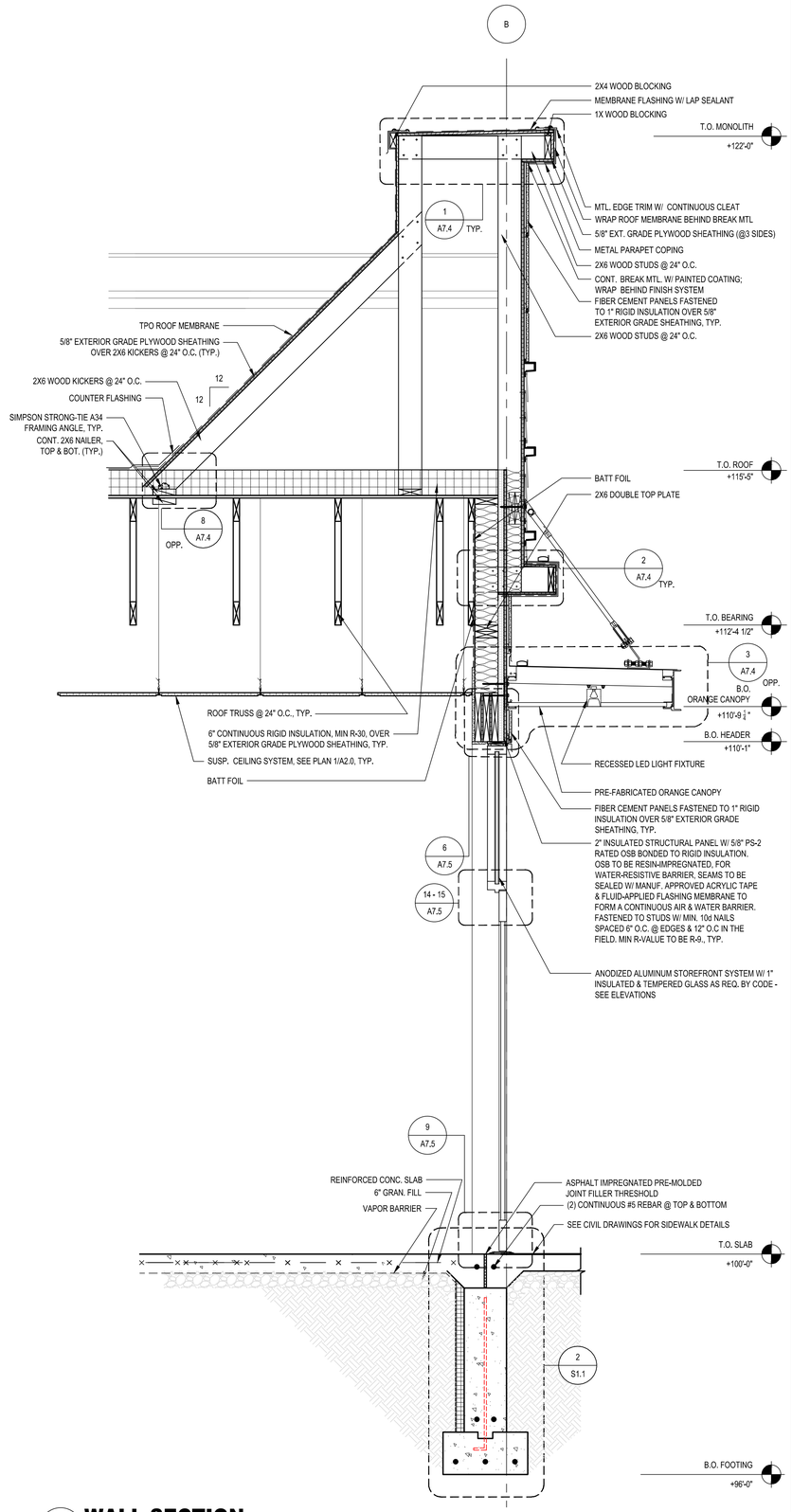
1. G.C. TO COORDINATE W/ SIGN VENDOR TO ENSURE ELECTRICAL REQUIREMENTS IN TERMS OF J BOX/WHIP LOCATIONS & ACCESS ARE ADDRESSED & UNDERSTOOD.
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3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

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LANDSCAPE COMPANY

MEP ENGINEER

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FOR PERMIT	04/04/2025

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SHEET TITLE.

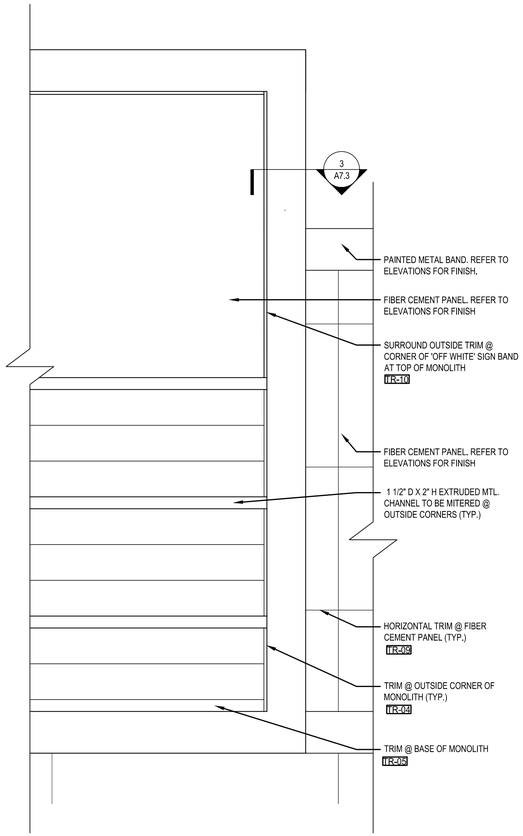
WALL SECTIONS

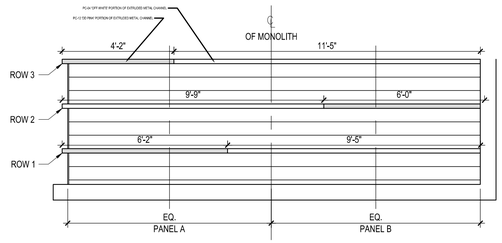
SHEET NO.

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Kolbrook Job No.	1502.236	Consultant Job No.	-

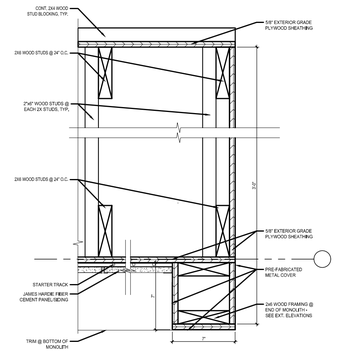
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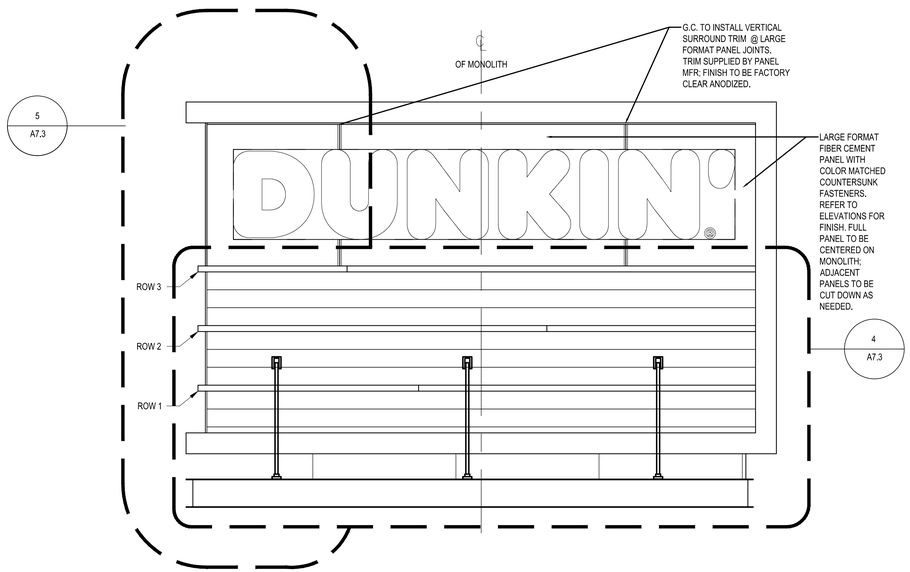


NOTES:
1. ACCENT ELEMENTS ARE 12' BREAK METAL SECTIONS, PRE-FINISHED TO MATCH PATTERN.
2. PANELS TO BE INSTALLED AT THE CENTERLINE OF MONOLITH, INSTALLED OUTWARD AND MITER CUT EACH END IN FIELD.
3. EACH PANEL (A and B) CONSISTS OF 3 UNIQUE ROWS (1, 2, and 3).
4. PANELS SHOULD REPEAT A, B, A, B, ETC. UNTIL DESIRED WIDTH IS MET.

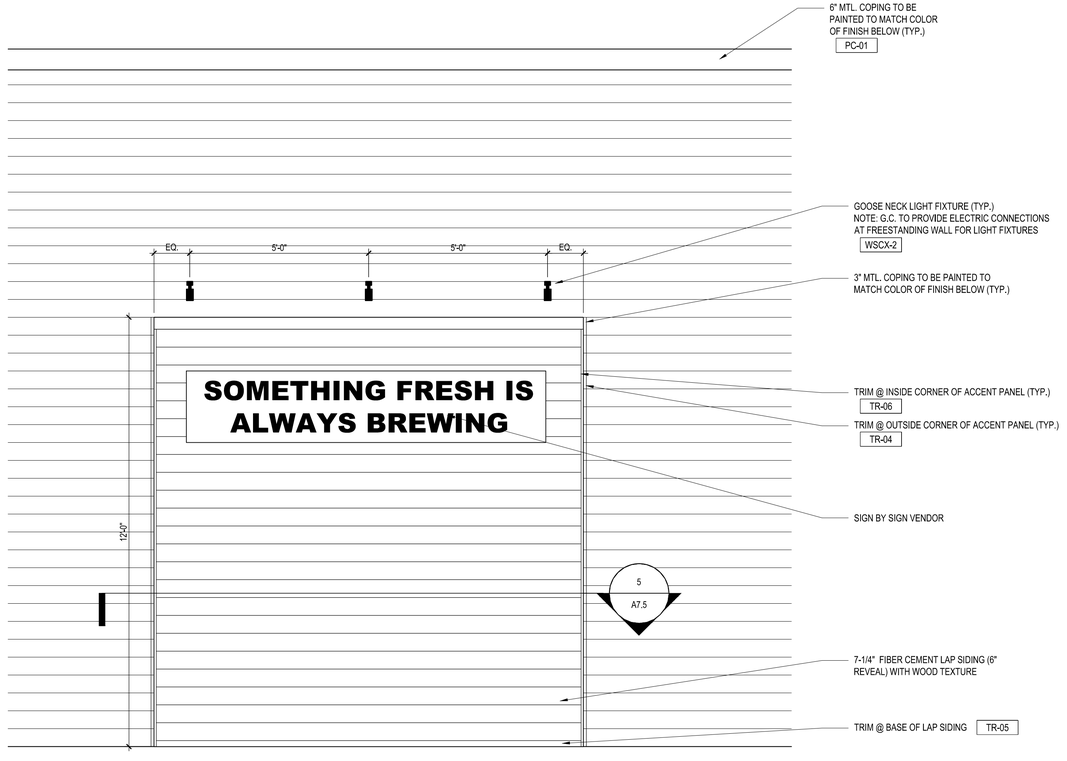
4 TYP. MONOLITH DETAIL
SCALE: 3/8" = 1'-0"



3 TYP. MONOLITH DETAIL
SCALE: 3/8" = 1'-0"



5 ENGARED ELEVATION @ MONOLITH CORNER
SCALE: 1" = 1'-0"



2 MONOLITH DETAIL
SCALE: 1/2" = 1'-0"

1 ACCENT WALL PANEL DETAIL
SCALE: 1/2" = 1'-0"

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DEVELOPER

ARCHITECT

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REGISTERED ARCHITECT
No. 11100272
STATE OF INDIANA

EXP: 12/31/2025
SIGNED: 04/04/2025

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SHEET TITLE.

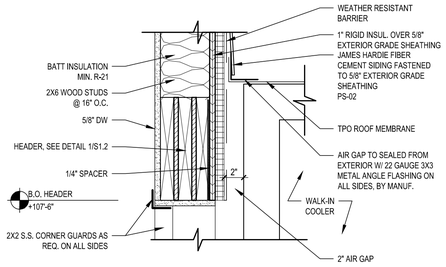
ACCENT WALL & MONOLITH DETAILS

SHEET NO.

A7.3

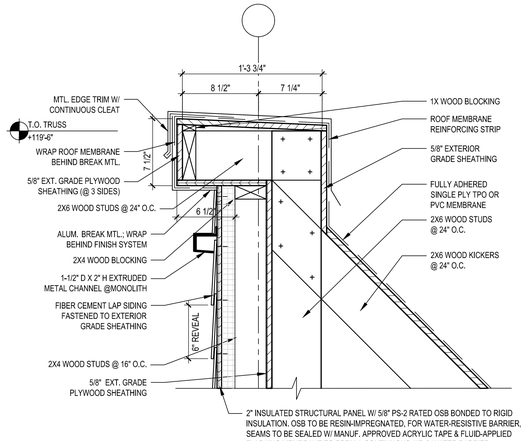
Kolbrook Job No.	1502.236	Consultant Job No.	-

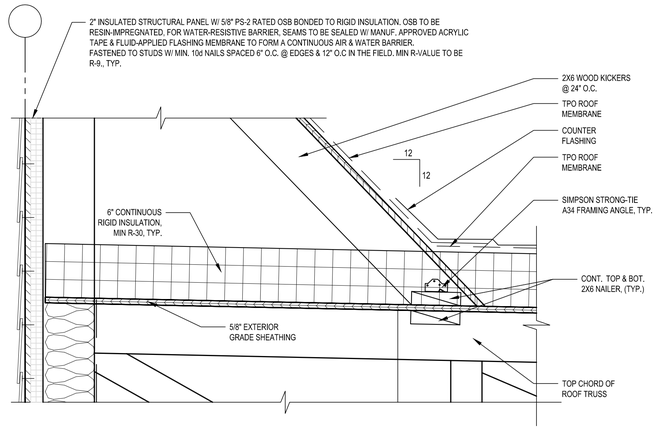
SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS



NOTES:
- BUILDING FLASHING TO BE SEALED ON BENT OVER TOP OF MEMBRANE ROOF MATERIAL DURING WALK-IN INSTALLATION.

- BUILDING FLASHING SECURED TO BUILDING WALL WITH TRIM BEING PROVIDED BY NOR LAKE.

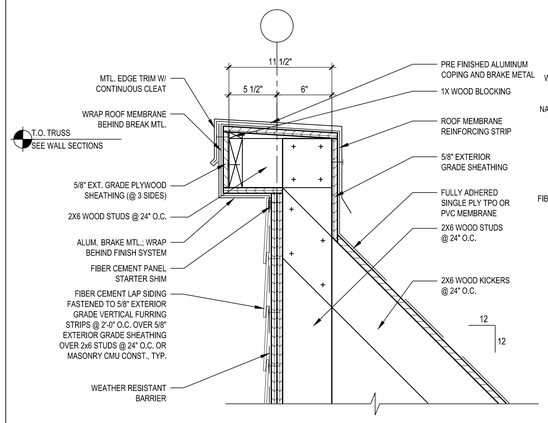




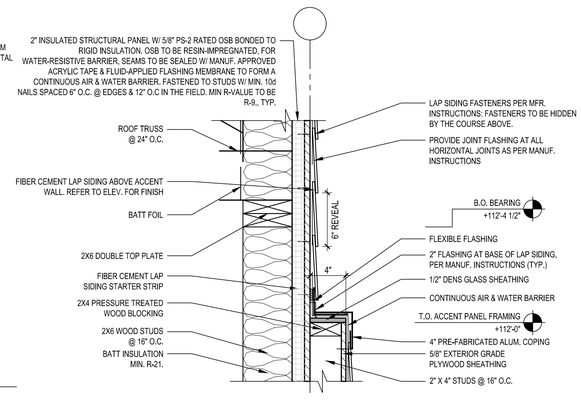
10 WALL SECTION DETAIL @ EXTERIOR W.I.C.
SCALE: 1-1/2" = 1'-0"

9 TYP. PARAPET DETAIL @ BUMP-OUT
SCALE: 1-1/2" = 1'-0"

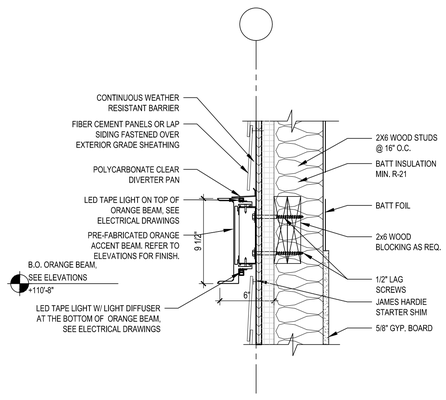
8 TYP. CONTER FLASHING @ KICKERS DETAIL
SCALE: 1-1/2" = 1'-0"



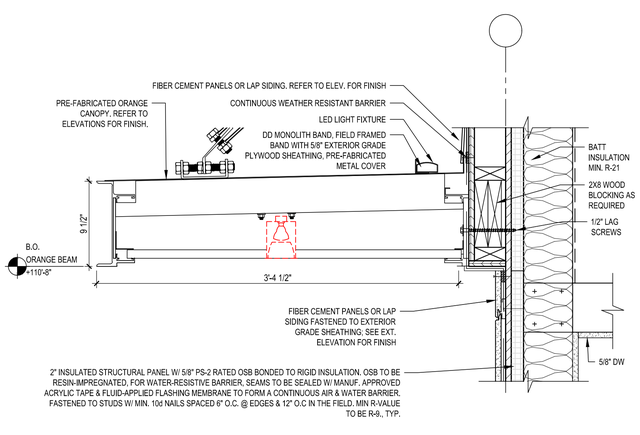
7 TYP. PARAPET DETAIL
SCALE: 1-1/2" = 1'-0"



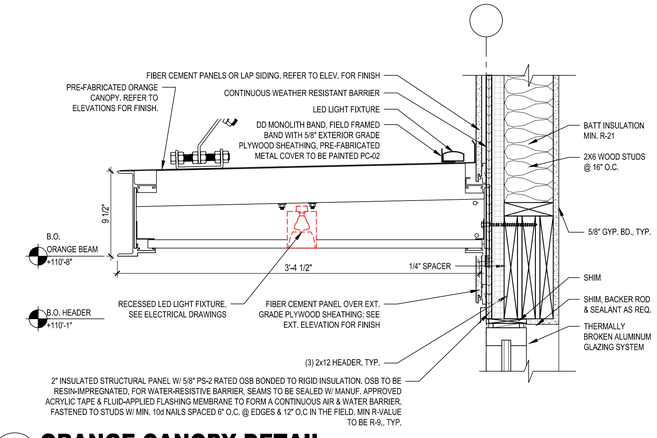
6 ACCENT WALL DETAIL - TOP
SCALE: 1-1/2" = 1'-0"



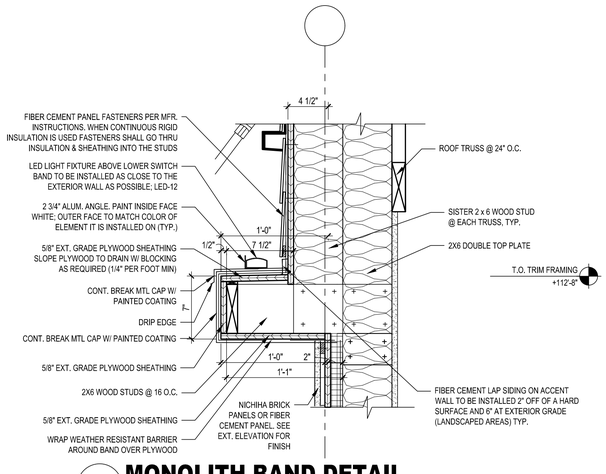
5 ORANGE BEAM DETAIL
SCALE: 1-1/2" = 1'-0"



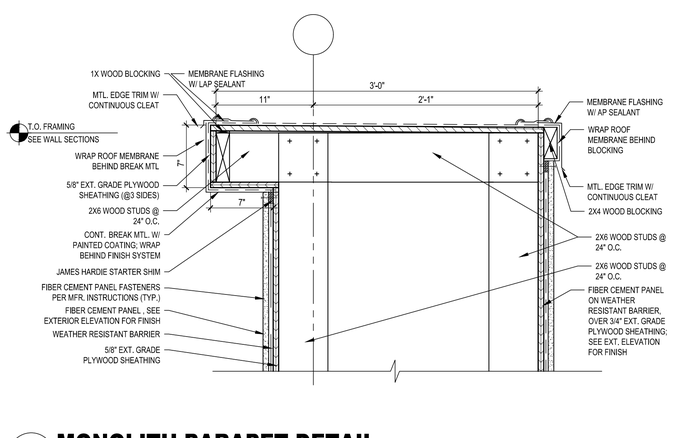
4 ORANGE CANOPY DETAIL @ BUMP-OUT
SCALE: 1-1/2" = 1'-0"



3 ORANGE CANOPY DETAIL
SCALE: 1-1/2" = 1'-0"



2 MONOLITH BAND DETAIL
SCALE: 1-1/2" = 1'-0"



1 MONOLITH PARAPET DETAIL
SCALE: 1-1/2" = 1'-0"

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LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

ARCHITECT

kolbrook design
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EVANSTON, IL 60201
OFFICE: 847.492.1992 | FAX: 312.453.0699



EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE.

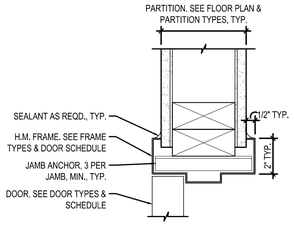
CONSTRUCTION DETAILS

SHEET NO.

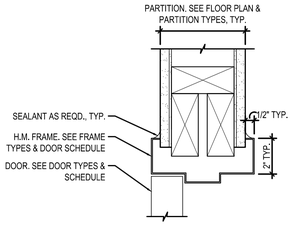
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Kolbrook Job No.	1502.236	Consultant Job No.	-

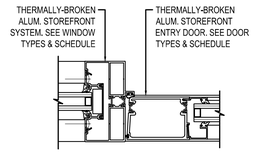
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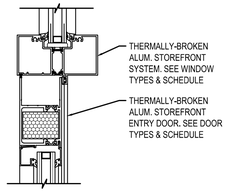
15 H.M. DOOR FRAME TYP. INT. JAMB DETAIL
SCALE: 3" = 1'-0"



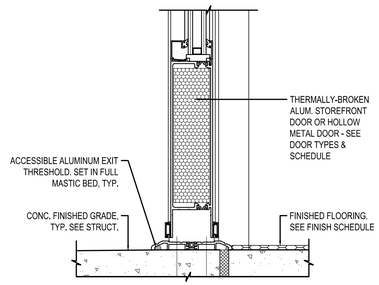
14 H.M. DOOR FRAME TYP. INT. HEAD DETAIL
SCALE: 3" = 1'-0"



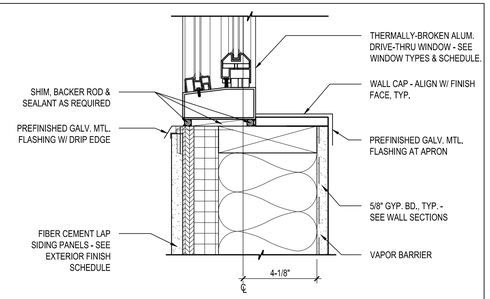
13 STOREFRONT ENTRY TYP. JAMB DETAIL
SCALE: 3" = 1'-0"



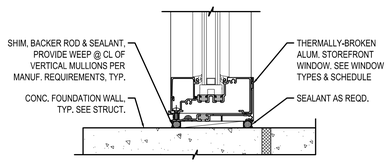
12 STOREFRONT ENTRY TYP. HEAD DETAIL
SCALE: 3" = 1'-0"



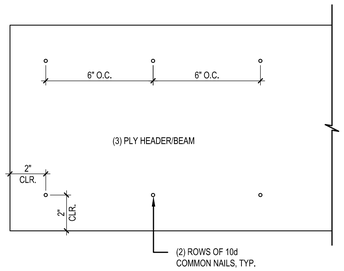
11 STOREFRONT / H.M. DOOR TYP. THRESHOLD DETAIL
SCALE: 3" = 1'-0"



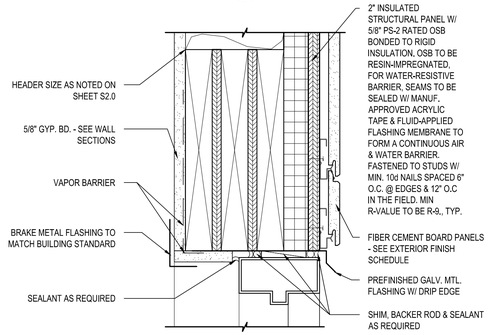
10 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



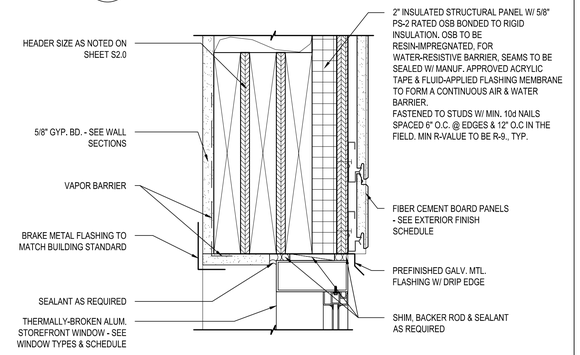
9 STOREFRONT TYP. SILL DETAIL
SCALE: 3" = 1'-0"



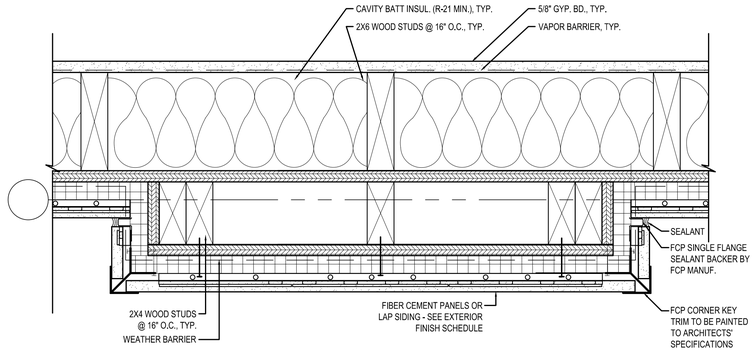
8 TYP. MULTI-PLY DETAIL
SCALE: 3" = 1'-0"



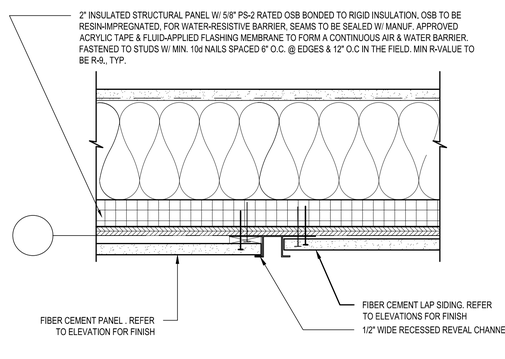
7 H.M. DOOR FRAME HEAD DETAIL
SCALE: 3" = 1'-0"



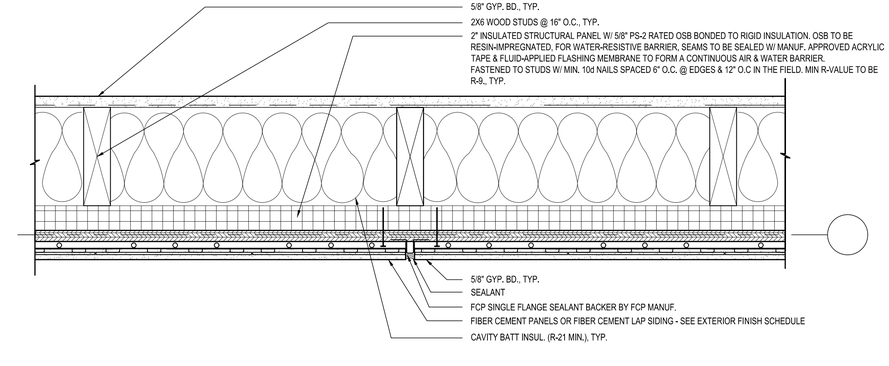
6 TYP. WINDOW HEADER DETAIL
SCALE: 3" = 1'-0"



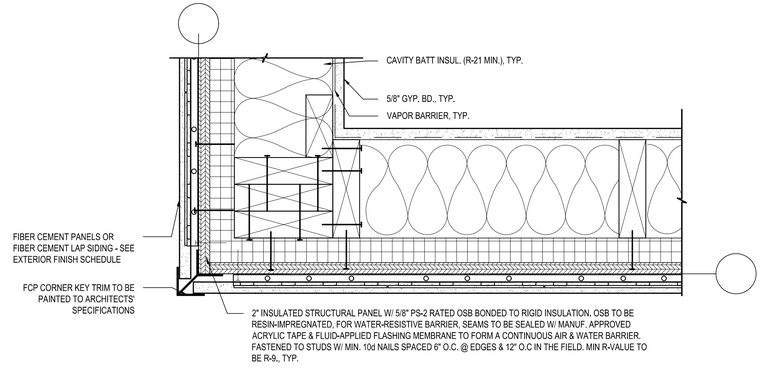
5 TYP. PLAN DETAIL @ BUMP OUTS
SCALE: 3" = 1'-0"



4 TRANSITION PLAN DETAIL
SCALE: 3" = 1'-0"

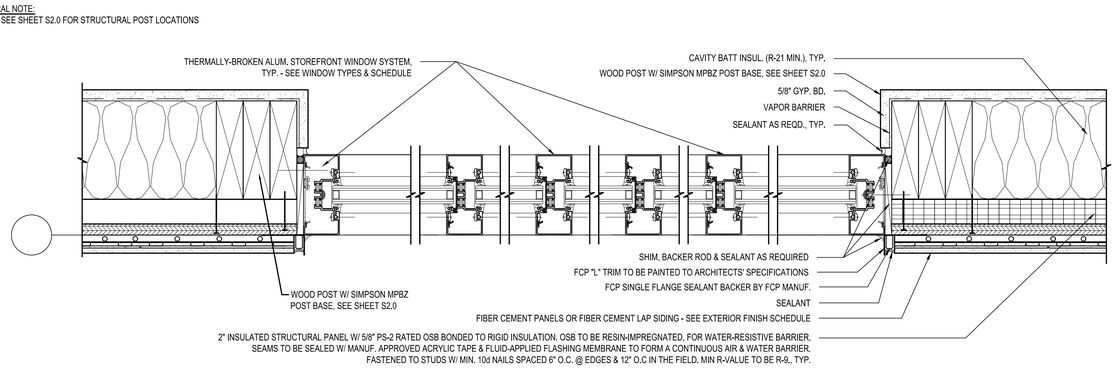


3 TYP. EXPANSION / CONTROL JOINT PLAN DETAIL
SCALE: 3" = 1'-0"



2 TYP. CORNER PLAN DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTE:
- SEE SHEET S2.0 FOR STRUCTURAL POST LOCATIONS



1 STOREFRONT DETAIL
SCALE: 3" = 1'-0"

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LANDSCAPE COMPANY

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CHECKED BY:

SHEET TITLE.

PLAN DETAILS

SHEET NO.

A7.5

Kolbrook Job No.	1502.236	Consultant Job No.	-

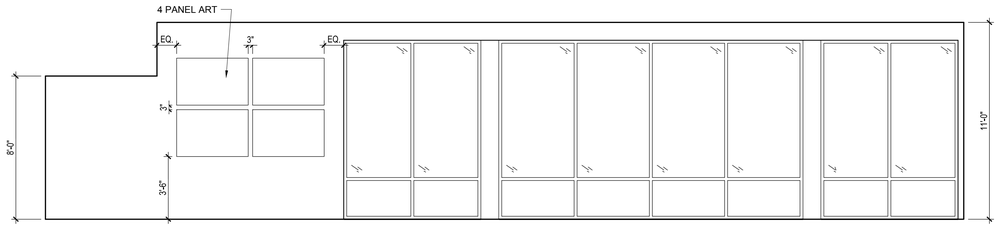
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ADA NOTES

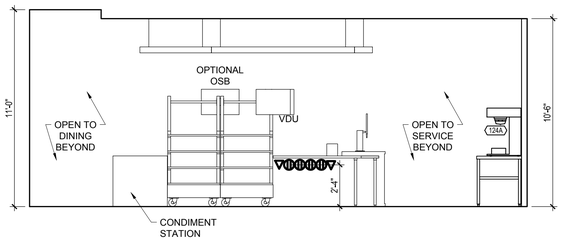
SEE G0.2 FOR MOUNTING HEIGHTS.

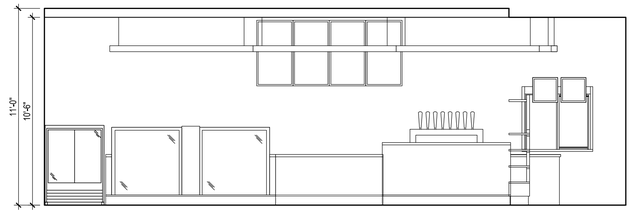
KITCHEN AND STORE ACCESSORIES

A. 2 SOAP DISPENSERS - PROCTOR AND GAMBLE COMPANY - SEE NATIONAL ACCOUNTS.
B. CHEMICAL DISPENSER - PROCTOR AND GAMBLE COMPANY - SEE NATIONAL ACCOUNTS.
C. 7 SHELF STANDARDS - KNAPE & VOGT, 87 ANO-24 IN
D. 14 SHELF BRACKETS - KNAPE & VOGT, 187LL ANO-12 IN
E. 14 SHELF CLIPS - KNAPE AND VOGT, 214 BLK
F. PAPER TOWEL HOLDER - AMERICAN SPECIALTIES, INC., 0245SS

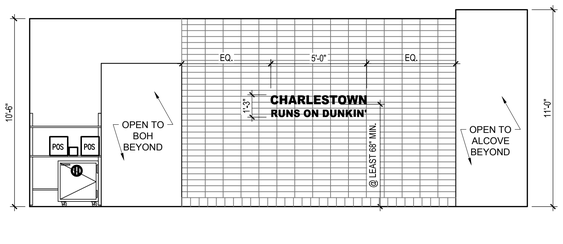


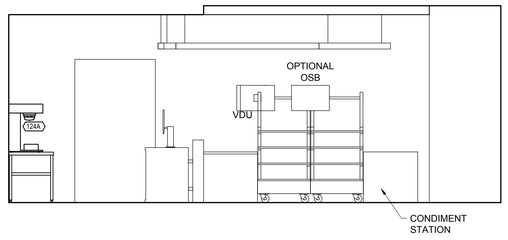
7 ALCOVE / DINING
SCALE: 1/4" = 1'-0"



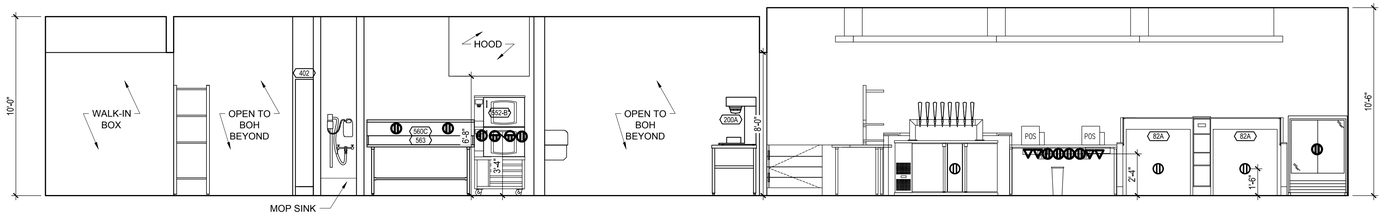


8 DINING / SERVICE
SCALE: 1/4" = 1'-0"



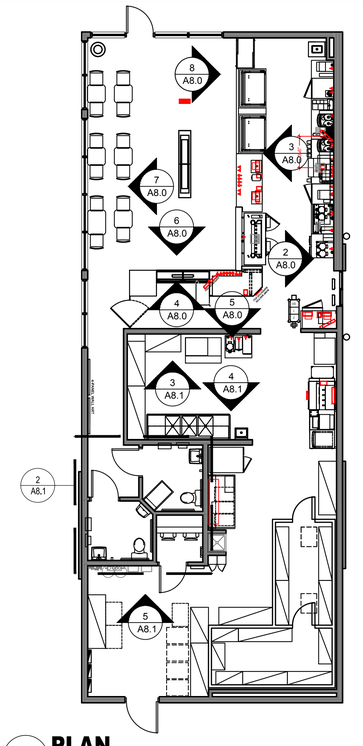


4 DINING / SERVICE
SCALE: 1/4" = 1'-0"

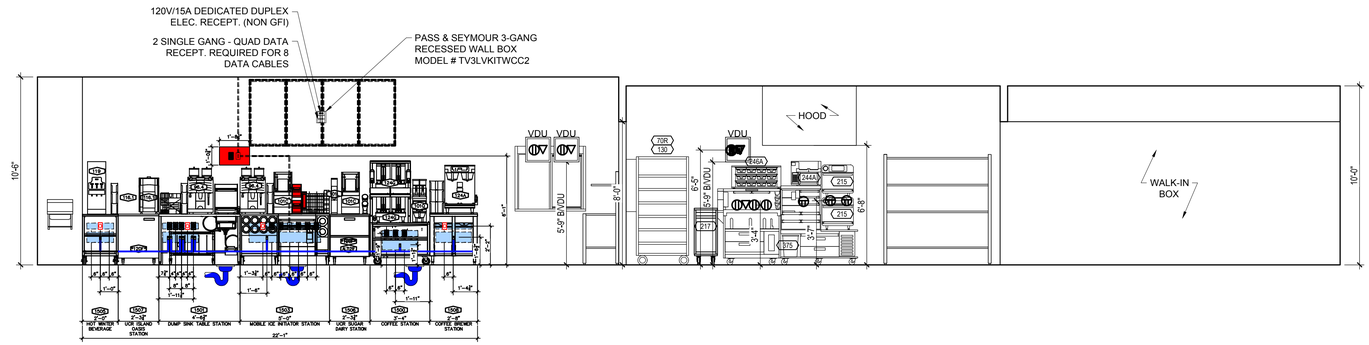


5 SERVICE / LROD / DINING
SCALE: 1/4" = 1'-0"

6 SERVICE / DINING
SCALE: 1/4" = 1'-0"



3 BACK OF HOUSE / SERVICE
SCALE: 1/4" = 1'-0"



2 SERVICE / BACK OF HOUSE
SCALE: 1/4" = 1'-0"

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

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DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

ARCHITECT
kolbrook design
828 DAVIS ST. SUITE 300
EVANSTON, IL 60201
OFFICE: 847.492.1992 | FAX: 312.453.0699

REGISTERED ARCHITECT No.11100072 STATE OF INDIANA

EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE.

INTERIOR ELEVATIONS

SHEET NO.

A8.0

Kolbrook Job No.	1502.236	Consultant Job No.	-

SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS

ADA NOTES

SEE G0.2 FOR MOUNTING HEIGHTS.

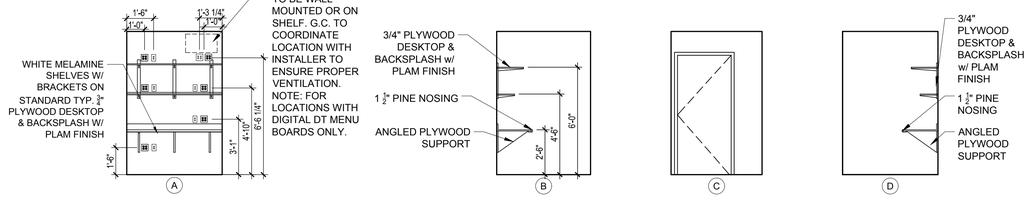
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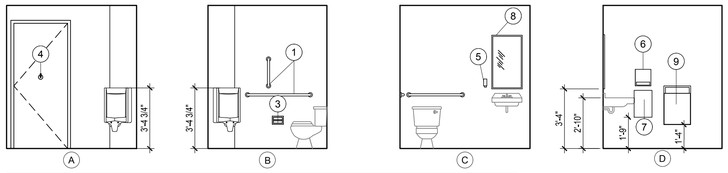
G.C. TO PROVIDE SOLID BLOCKING AT ALL PARTITIONS SUPPORTING CABINETRY, GRAB BARS, SHELVING OR OTHER SURFACE MOUNTED FIXTURES

NOTE: ALL SHELVING AND HARDWARE SUPPLIED AND INSTALLED BY G.C. .

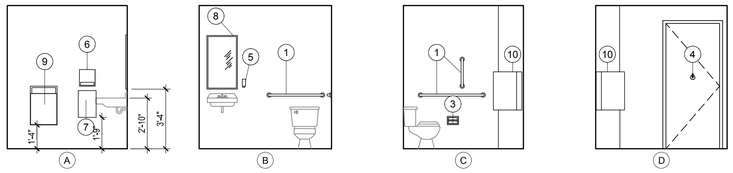
SHELVING HARDWARE SPECS
KNAPE & VOGT #180-12 HEAVY DUTY ADJ KNIFE BRACKETS
KNAPE & VOGT #80 STANDARDS
FINISH STEEL W/ ANOCHROME FIN



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

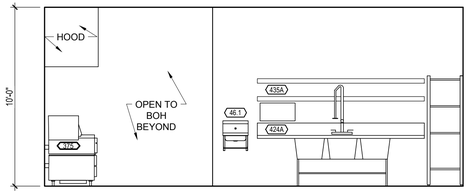


REFER TO RESTROOM EQUIPMENT SCHEDULE ON SHEET A9.1 FOR FIXTURE / ACCESSORIES INFORMATION



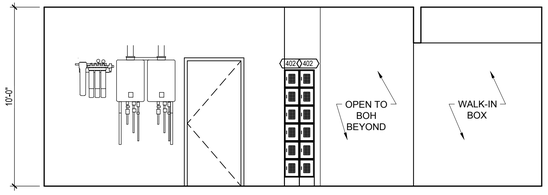
REFER TO RESTROOM EQUIPMENT SCHEDULE ON SHEET A9.1 FOR FIXTURE / ACCESSORIES INFORMATION

6 TOILET (107)
SCALE: 1/4" = 1'-0"

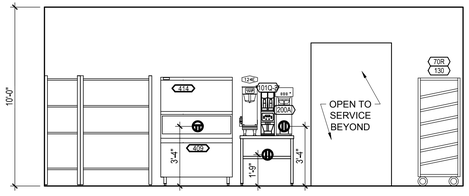


4 BACK OF HOUSE
SCALE: 1/4" = 1'-0"

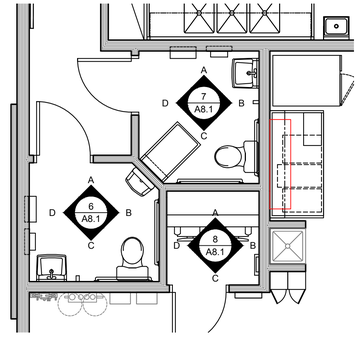
7 TOILET (108)
SCALE: 1/4" = 1'-0"



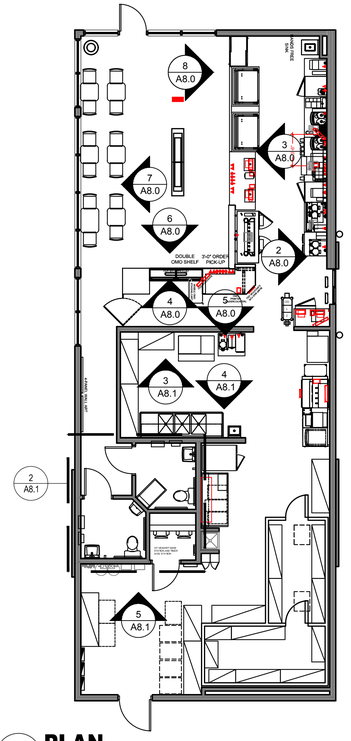
5 BACK OF HOUSE
SCALE: 1/4" = 1'-0"



3 BACK OF HOUSE
SCALE: 1/4" = 1'-0"



2 TOILET AND OFFICE PLAN
SCALE: 1/4" = 1'-0"



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

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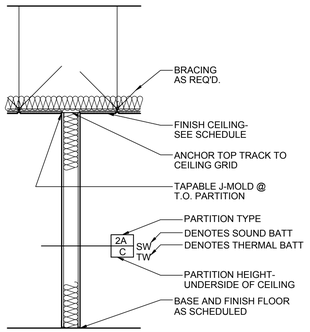
INTERIOR ELEVATIONS

SHEET NO.

A8.1

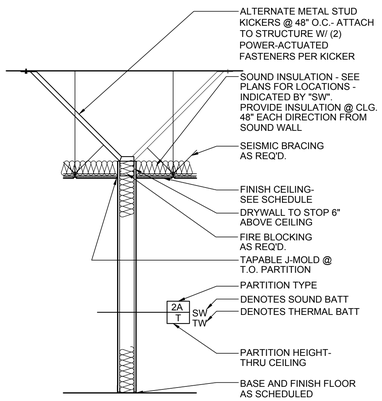
Kolbrook Job No.	1502.236	Consultant Job No.	-

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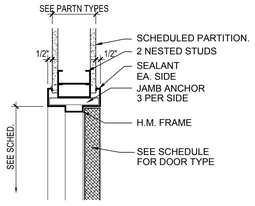
3 TYP. WALL DETAIL

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



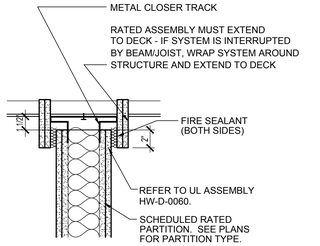
2 TYP. WALL DETAIL

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



5 DOOR DETAIL

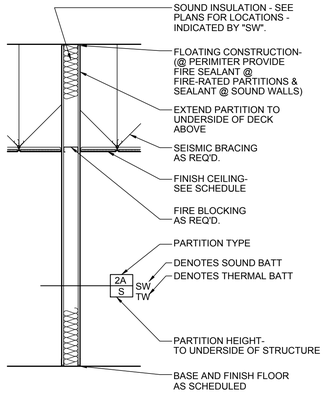
SCALE: 1/2" = 1'-0"



RATED PARTITION

4 SLIP JOINT DETAIL

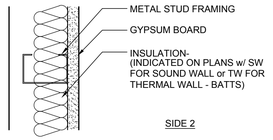
SCALE: 1/2" = 1'-0"



1 TENANT PARTITION (TYP,)

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

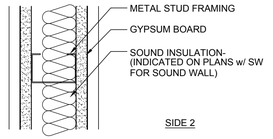
PARTITION TYPE 1 (FURRED PARTITIONS)



SIDE 1 SIDE 2

PARTITION					GYPSUM BOARD				FRAMING			NOTES
					SIDE 1		SIDE 2					
TYPE	THK	FIRE RATING	TEST NUMBER	STC RATING	TYPE	THK	TYPE	THK	SIZE	SPACING	GAUGE	
1A	4 1/4"	-	-	-	-	-	--	5/8"	3 5/8"	16" o.c.	MIN. 25ga	
1B	1 1/2"	-	-	-	-	-	--	5/8"	7/8"	16" O.C. VERTICAL	MIN. 25ga	
1C	3 1/8"	-	-	-	-	-	--	5/8"	2 1/2"	16" O.C.	MIN. 25ga	
1D	4 1/4"	-	-	-	-	-	WR	5/8"	3 5/8"	16" O.C.	MIN. 25ga	SEE NOTE B
1E	6 5/8"	-	-	-	-	-	WR	5/8"	6"	16" O.C.	MIN. 25ga	SEE NOTE B

PARTITION TYPE 2 (TYPICAL PARTITIONS)



SIDE 1 SIDE 2

PARTITION					GYPSUM BOARD				FRAMING			NOTES
					SIDE 1		SIDE 2					
TYPE	THK	FIRE RATING	TEST NUMBER	STC RATING	TYPE	THK	TYPE	THK	SIZE	SPACING	GAUGE	
2A	4 7/8"	-	-	-	-	5/8"	-	5/8"	3 5/8"	16" o.c.	MIN. 25ga	
2B	7 1/4"	-	-	-	-	5/8"	-	5/8"	6"	16" o.c.	MIN. 25ga	
2C	4 7/8"	1 HOUR	UL U465	-	'X'	5/8"	'X'	5/8"	3 5/8"	16" o.c.	MIN. 25ga	SEE NOTE A
2D	7 1/4"	1 HOUR	UL U465	-	'X'	5/8"	'X'	5/8"	6"	16" o.c.	MIN. 25ga	SEE NOTE A
2E	4 7/8"	-	-	-	WR	5/8"	WR	5/8"	3 5/8"	16" o.c.	MIN. 25ga	SEE NOTE B
2F	7 1/4"	-	-	-	WR	5/8"	WR	5/8"	6"	16" o.c.	MIN. 25ga	SEE NOTE B
2G	4 7/8"	1 HOUR	UL U465	-	WRX	5/8"	WRX	5/8"	3 5/8"	16" o.c.	MIN. 25ga	SEE NOTE C
2H	7 1/4"	1 HOUR	UL U465	-	WRX	5/8"	WRX	5/8"	6"	16" o.c.	MIN. 25ga	SEE NOTE C

PARTITION TYPE 3 (CAVITY WALLS)

SIDE 1 SIDE 2

PARTITION					GYPSUM BOARD				FRAMING			NOTES
					SIDE 1		SIDE 2					
TYPE	THK	FIRE RATING	TEST NUMBER	STC RATING	TYPE	THK	TYPE	THK	SIZE	SPACING	GAUGE	
3A	varies	-	-----	-	W.R.	5/8"	W.R.	5/8"	3 5/8"	16" o.c.	MIN. 25ga	

PARTITION TYPE NOTES

A. PROVIDE HEAD OF WALL ASSEMBLY HW-D-0060
B. WR = WATER RESISTANT GYMPSUM BOARD
C. WRX = WATER RESISTANT/FIRE RATED GYPSYM BOARD

PARTITION GENERAL NOTES

FRAMING

1. All load bearing partitions shall be constructed per structural drawings and specifications.
2. All non-bearing partitions shall be constructed to limit deflection per building code restrictions and mfr's, whichever is greater. Chase walls shall resist loads perpendicular to shaft.
3. Provide double framing at jambs of frames and cased openings.
4. Screw attach studs to runner track at both sides.
5. Isolate non-bearing framing from structural elements slip connections to prevent the transfer of loads to partition framing.
6. Control joints shall be installed at 30'-0" o.c. (maximum) and at major interruptions in the wall - ie doors, windows and equipment. See elevations and plans for locations and verify locations with Architect.
7. Provide fire retardant blocking for all wall mounted architectural woodwork, finish carpentry, toilet partitions and accessories, railings, shelving and similar mounted items. For mounting heights see interior elevations.
8. Cross bracing at all chase wall framing to be 12" high, 1/2" gyp. bd. or min. 2 1/2" metal studs at 1/3 pts.
9. Framing shall coordinate with all required mechanical, electrical, plumbing, fire protection, data and other related work.
10. Provide approved fire stopping materials at the ceiling plane in partitions which penetrate the ceiling.
11. Top of wall shall be constructed as follows:
    S - to structural deck
    T - thru ceiling
    U - to underside of ceiling
12. TYP. FASTNERS
    Shall be #8 x 3/4" self - drilling screws

VAPOR BARRIER

1. Provide 6 mil Poly Vapor Barrier over mtl. studs & insulation at all exterior wall furring as shown on plan.

GYPSUM BOARD

1. Gypsum board shall be installed per ASTM C 840.
2. Install water resistant gypsum board at plumbing chase walls, within all toilet rooms, janitor closets and all wet areas- see plans.
3. Finish all corners and exposed edges of gypsum board with taped-in metal trim accessories. Use exposed trim only when specifically indicated.
4. Gypsum board partitions shall be taped and sanded smooth with no visible joints.
5. Recessed items shall be installed flush with partition (U.O.N.) . Partition depth shall be adjusted to accommodate depth of recessed item.
6. All remaining existing walls and walls affected by demo to be patched and or skim coated for paint finish or laminated with 1/4" gypsum board for smooth paint finish, contractors option.

FIRE-RESISTANT RATED PARTITIONS

1. All partitions indicated to be fire rated shall be constructed in strict accordance with the referenced fire resistance test. If no test is referenced, an industry recognized fire resistance test shall be used.
2. Fire resistant rated partitions shall extend from floor to structural deck above.
3. Approved fire-resisitive materials must be used at all penetrations through fire rated assemblies.

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PARTITION TYPES

SHEET NO.

A9.0

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RESTROOM EQUIPMENT SCHEDULE

CODE	ITEM	MANUFACTURER & PRODUCT #	MOUNTING HEIGHT	REMARKS
1	GRAB BARS	ASI 3701-18P (18"), -36P (36") & -42P (42")	36" MAX. A.F.F.	NOTE C
2	SWING-UP GRAB BAR	BOBRICK #B-4998.99	SEE INSTALLATION INSTRUCTIONS	NOTE C, INSTALL WHEN REQUIRED
3	TOILET PAPER HOLDER	KC PROFESSIONAL 09551	20" BOT OF UNIT, SURFACE MOUNTED	
4	COAT HOOK	ASI 0751	48" A.F.F. , MOUNTED ON DOOR	
5	SOAP DISPENSER	DERMA FOAM E- KAY CHEMICAL COMPANY		NOTE A, C
6	AUTOMATIC HAND DRYER	"WORLD VERDIDRI" Q974-A - WHITE OR Q973-A - STAINLESS OR "EXCEL" XLERATOR THIN AIR TA-SI WG - WHITE OR TA-SI WG - STAINLESS		NOTE A, C & E
7	HAND DRYER WALL GUARD	WORLD	-	NOTE F
8	MIRROR (18"x30")	ASI 0620-2436	40" A.F.F. TO BOTTOM	NOTE C
9	TRASH RECEPTACLE	ASI 0458	41"-45" A.F.F. TO OPENING FOR ADA	
10	BABY CHANGING STATION	ASI 9012 HORIZONTAL OR ASI 9015 VERTICAL	27" TO BOTTOM OF UNIT	NOTE C
11	SANITARY NAPKIN DISPOSAL	ASI 0852	24" TO TOP OF UNIT	WOMEN'S RESTROOM ONLY
12	SEAT COVER DISPENSER (OPTIONAL)	ASI 0477 SM		(OPTIONAL)
13	WALL SHELF	ASI 0692-516 (5"x16")	42" A.F.F. FOR ADA; NOTE C	(OPTIONAL)

NOTES

NOTE A: OPERATING CONTROLS OF ALL HAND DRYERS, SOAP DISPENSERS AND MULTI PURPOSE UNITS TO BE 42" A.F.F.

NOTE B: G.C. TO FIELD VERIFY ALL SIZES

NOTE C: PROVIDE BLOCKING FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES

NOTE D: TOILET TISSUE & PAPER TOWEL DISPENSERS SUPPLIED FREE FROM LOCAL DCP; INSTALLED BY G.C.

NOTE E: HAND DRYER TO BE ORDERED FROM NATIONAL ACCOUNT SUPPLIER AND IS REQUIRED TO HAVE STANDARD DBI GREEN MESSAGING/BRANDING.

NOTE F: AVAILABLE WITH HAND DRYER; CAN BE PURCHASED SEPARATELY (FOR REMODELS).

RESTROOM EQUIPMENT LIST

ALTERNATE HANDS-FREE TOILET EQUIPMENT IS AVAILABLE FOR OPTIONAL USE IN RESTROOMS

WALL MOUNTED LAVATORY: "LUCERNE" BY AMERICAN STANDARD #0355.012.
AUTOMATIC FAUCET (STANDARD): SLOAN #ETF-600-B-BDT, W/ TRANSFORMER #EL-154 AND 0.5 GPM AERATOR #ETEF-1024-A.

TANK TOILET (STANDARD):
STANDARD OPTION: AMERICAN STANDARD CADET PRO RIGHTHEIGHT ELONGATED 1.28 GPF #215AA.104 (LEFT TRIP) #215AA.105 (RIGHT TRIP)
PRESSURE-ASSIST OPTION: AMERICAN STANDARD CADET FLOWISE WIGHTHEIGHT ELONGATED, PRESSURE ASSIST 1.1 GPF #2467.00 (LEFT TRIP) #2467.XXX (SPECIFY RIGHT TRIP)

TANKLESS TOILET (OPTIONAL):
AMERICAN STANDARD MADERA FLOWISE ELONGATED, 1.28 GPF #3043.001
MANUAL FLUSH (STANDARD): SLOAN REGAL 111.1.28 (3780046) FLUSHOMETER
AUTOMATIC FLUSH (OPTIONAL): SLOAN 8111-1.28 (3790071) EXPOSED, BATTERY POWERED, SENSOR ACTIVATED DUAL FLUSH FLUSHOMETER

URINAL:
AMERICAN STANDARD WASHBROOK FLOWISE 0.5 GPF HIGH EFFICIENCY URINAL #6590.001
MANUAL FLUSH (STANDARD): SLOAN 186-0.5 (3782655) REGAL 186-1
AUTOMATIC FLUSH (OPTIONAL): SLOAN 8186-0.5 (3790068) TOUCHFREE OPERATION, METAL COVER, OVERRIDE BUTTON & FLUSHO METER BODY LESS HANGLE OPENNER.
'WATERLESS' URINAL (OPTIONAL - DD ELITE):
SLOAN WATERFREE URINAL WITH SLOANTEC GLAZE WES-4000-STG (1074000)

1. LOW FLOW PLUMBING FIXTURES MUST MEET FLUSH/FLOW FIXTURE VOLUMES STANDARDS OF 1.28 GPF TOILETS, 0.5 GPF URINALS, 0.5 GPM HAND WASH FAUCETS, AND 2.2 GPM POT SINK FAUCET (BY OTHERS) WITH 1.24 GPM SPRAY HEAD (BY OTHERS)
2. G.C. TO PROVIDE PRICING FOR STANDARD EQUIPMENT UNLESS DIRECTED OTHERWISE BY FRANCHISEE.

VENDOR CONTACT INFO FOR RESTROOM FIXTURES AND ACCESSORIES	RESTROOM REMODELS	NEWTON DISTRIBUTORS
	15 HAMMATT ST. - PO BOX 34 IPSWICH, MA 01938 PHONE: 617-500-2554 / FAX: 617-845-0350 WWW.RESTROOMREMODELS.COM SALES@RESTROOMREMODELS.COM	VENDOR CONTACT: PEDRO GRULLON P: 877-837-7745 E: PEDRO@NEWTONDISTRIBUTING.COM WWW.NEWTONDISTRIBUTING.COM

MASTER HARDWARE SCHEDULE

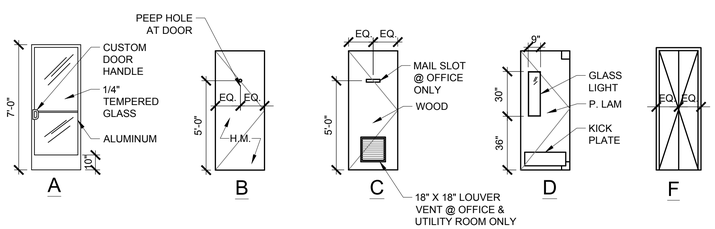
SET No.	LOCATION	HARDWARE	MODEL #	MANUFACTURER	REMARKS
1	VESTIBULE	TEMPORARY CYLINDER	3901 OR 3902 AS REQUIRED	HAGER	
		DOOR CLOSER	5200 MLT 1-6 DLY ALM	HAGER	
		OFFSET PIVOTS		HAGER	
		DEADLOCK	MS 1850A	ADAMS RITE	
		LADDER PULL DOOR HANDLE	1170-D.PINK	TRIMCO	SEE ELEVATIONS & NATIONAL ACCOUNTS
		THRESHOLD	404S MIL 1/2" X 4"	HAGER	
2	SERVICE AREA	FLOOR STOP	252F US26D	HAGER	ALL ADDITIONAL HARDWARE INCL. WITH
3	OFFICE	HINGES	1279 US26D	HAGER	
		SPRING HINGES	1250 US26D	HAGER	
		LOCKSET	3480 WTN US26D	HAGER	
		LETTER SLOT	626 PA28	IVES	
		SLEEVE	600	IVES	
		FLOOR STOP	241F US26D	HAGER	
4	HALL/ALCOVE	HINGES	1279 US26D	HAGER	
		SPRING HINGES	1250 US26D	HAGER	
		LOCKSET	3470 WTN US26D	HAGER	
		FLOOR STOP	241F US26D	HAGER	
		DOOR VIEWER	1756 US26D	HAGER	
5	RESTROOM	1-1/2 PAIR BUTT HINGES	BB-1279 26D	HAGER	
		HANDS FREE SLIDE LOCK	UHF 212-52.630	TRIMCO	(OUTSWING)
		HANDS FREE SLIDE LOCK	UHF 211-52.630	TRIMCO	(INSWING)
		FLOOR STOP	241 F US26D	HAGER	
		KICK PLATE	214S Black 10" x 2" L.W.O. D.	HAGER	
		DOOR CLOSER	5200 MLT 1-4 ALM	HAGER	
6	REAR	HINGES	BB1191 32D	HAGER	
		LOCKSET	3495 WTN US26D	HAGER	
		DOOR CLOSER	5400 PA 2-5 HDHOS ALM	HAGER	
		THRESHOLD	413S MIL	HAGER	
		SWEEP	802S B MI	HAGER	
		HOLDER/STOP	268S US26D	HAGER	
		WEATHER STRIPPING	800S B MIL	HAGER	
		LOCK GUARD	341 D 32D	HAGER	
		DOOR VIEWER	1756 US26D	HAGER	ALTERNATIVE: MODEL # L-VGLF-WD, 9" x 5", NATIONAL GUARD PRODUCTS
7	UTILITY ROOM	HINGES	BB-1279 26D	HAGER	
		LOCKSET	3410 WTN US26D	HAGER	
		FLUSH BOLTS	282D US26D	HAGER	

DOOR SCHEDULE

NO.	DOOR DATA				FINISH	FRAME DATA		FINISH	NOTES
	LOCATION	SIZE	MATERIAL	TYPE	INT/EXT	MATERIAL	TYPE	INT/EXT	
101	ENTRANCE	3'-0" X 7'-0" X 1 3/4"	ALUM/GL	A	FACT	ALUM	3	FACT	1 AND 4
103	SERVICE	4'-0" X 7'-0" X 1 3/4"	H.M.	B	PTE-02	H.M.	2	PTE-02	3 AND 4
106	OFFICE	3'-0" X 6'-8" X 1 3/4"	WOOD	C	PT-02 (C)	H.M.	1	PT-02 (C)	4 AND 5
107	TOILET	3'-0" X 6'-8" X 1 3/4"	WOOD	C	PT-02 (C)	H.M.	1	PT-02 (C)	2 AND 4
108	TOILET	3'-0" X 6'-8" X 1 3/4"	WOOD	C	PT-02 (C)	H.M.	1	PT-02 (C)	2 AND 4

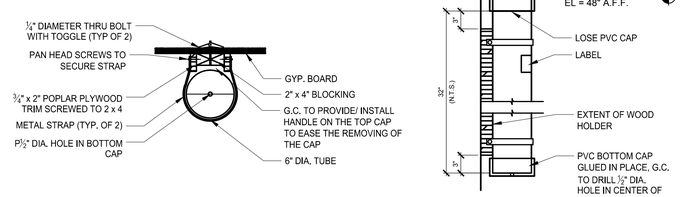
NOTES

1. PROVIDE 1" INSULATED & TEMPERED GLASS; FRAME TO MATCH STOREFRONT COLOR
2. UNDERCUT DOOR 1"
3. PROVIDE 190 DEGREE DOOR VIEWER CENTERED IN DOOR @ 5'-0" A.F.F.- MODEL SSVLAB FROM DAVSTAR SECURITY
4. REFER TO DUNKIN BRANDS MASTER HARDWARE SCHEDULE FOR ALL DOORS.
5. PROVIDE LOUVERED VENT @ EACH DOOR FOR UTILITY ROOM AND OFFICE. REFER TO LOCAL CODES FOR FIRE RATING OF DOORS
6. ADD DOUBLE-ACTING ELIASON DOOR TO SEPARATE SERVICE AREA FROM PREP AREA WHEN APPLICABLE (NOT SHOWN ON PLAN); REFER TO NATIONAL ACCOUNTS FOR CONTACT INFO, DOOR TO BE LAMINATED ON BOTH SIDS. FORMICA #837-58 "GRAPHITE" HPL, 12" STAINLESS STEEL BASE PLATES ON BOTH SIDES AND 9"x30" ACRYLIC WINDOW UP 54 1/4" TO CENTER.



2 DOOR AND OPENING FRAME TYPES

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



NOTES:
1. UPON COMPLETION OF PROJECT, G.C. PROVIDE A COMPLETE AS-BUILT SET OF DRAWINGS FOR THE COMPLETED STORE (ARCHITECTURAL) AND PLACE DRAWINGS INTO THE PLAN TUBE HOLDER
2. G.C. MUST PROVIDE AND ATTACH A LABEL (WITH CLEAR TAPE) STATING: THIS TUBE CONTAINS STORE DRAWINGS AND IS NOT TO BE REMOVED WITHOUT THE CONSENT OF THE FRANCHISEE.
3. ENTIRE ASSEMBLY IS CONSTRUCTED BY G.C. IN FIELD. G.C. TO PAINT BLOCKING TO MATCH WALL

1 PLAN TUBE DETAILS

SCALE: 1" = 1'-0"

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DUNKIN'

CIVIL ENGINEER

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OFFICE: 847.492.1992 | FAX: 312.453.0699



EXP: 12/31/2025
SIGNED: 04/04/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
FOR PERMIT	04/04/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE:

SCHEDULES AND DETAILS

SHEET NO.

A9.1

Kolbrook Job No.	1502.236	Consultant Job No.	-

SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS

GENERAL NOTES

1) EQUIPMENT SUPPLIER TO PLACE ALL NEW EQUIPMENT.

2) CONTRACTOR TO MAKE ALL MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT.

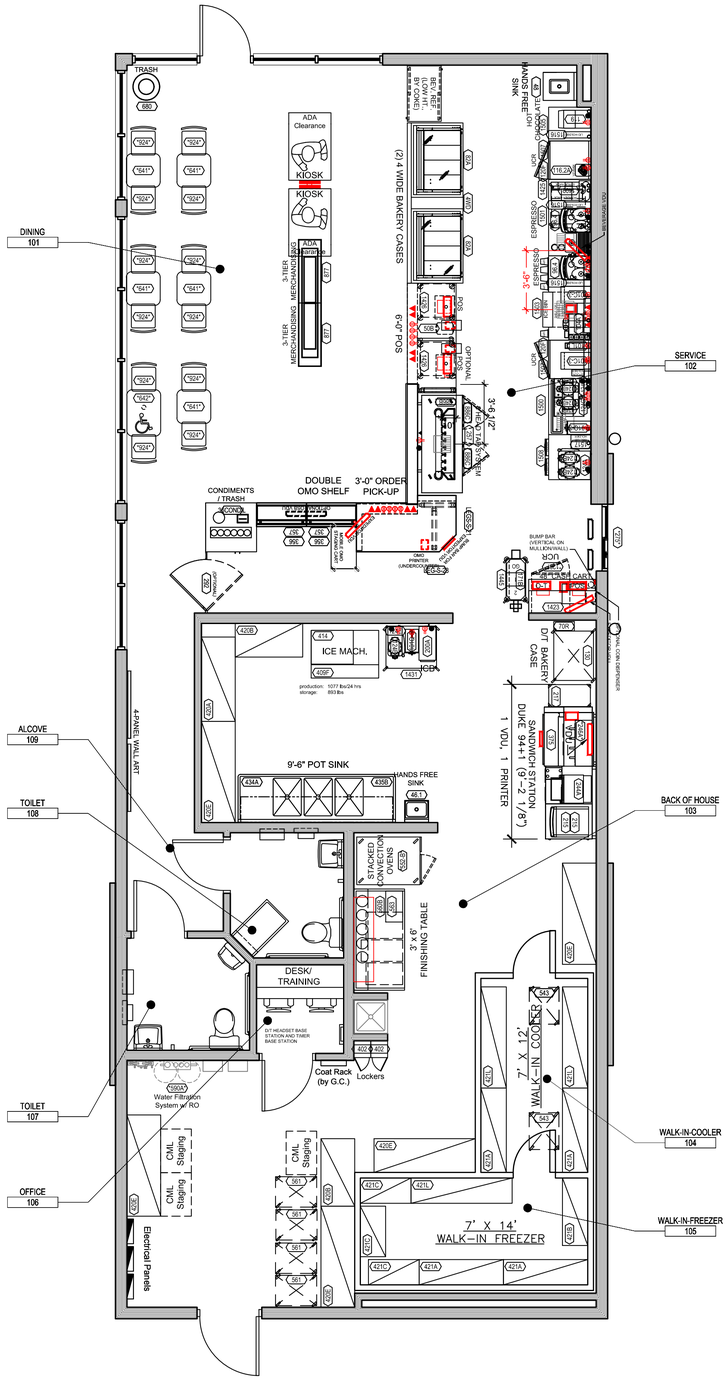
3) REFER TO DUNKIN' INSPIRE BRANDS MULTIBRAND EQUIPMENT SPECIFICATIONS ON DUNKIN' INSPIRE BRANDS WEB SITE FOR COMPLETE EQUIPMENT AND UTILITY INFORMATION. DUNKIN' INSPIRE BRANDS WEBSITE ALWAYS TAKES PRECEDENCE OVER THE DRAWINGS IN INSTANCE OF CONFLICT.

4) THE ASTERISKS "*" IN THE "ITEM NO." INDICATES THAT THERE ARE MULTIPLE CHOICES AVAILABLE FOR THE RESPECTIVE PIECE OF EQUIPMENT OR MILLWORK. IT IS UP TO THE FRANCHISEE AND/OR FIELD TEAM TO MAKE THE APPROPRIATE SELECTION FOR THE LOCATION. THE CONTRACTOR SHALL MAKE ELECTRICAL AND PLUMBING MODIFICATIONS TO ACCOMMODATE FINAL EQUIPMENT SELECTION.

Walk In Box Schedule by Architect	
Walk In Box	Interior
Ceiling Height where box will be located (if interior)	10'-0"
If Exterior: does box need to be painted?	N/A
If Exterior: is Masonry surrounding the box?	N/A
Overall Dimension of the Box	14' x 19' x 7'7"
*Freezer Dimensions	7' x 14' x 7'7"
*Cooler Dimensions	7' x 12' x 7'7"
*Anteroom Dimensions	N/A
Refrigeration System	Remote Self Contained
Refrigeration Location (if REMOTE)	Top of Building
Refrigeration Lineset Needed (with remote units only)	0- 50 ft
Electrical Phase	Single Phase (120/208) / 3-Phase (227/480)
Optional Accessories	
Interior Ramp at inside of door at Cooler	NO
Hurricane Tie Down	NO
Seismic Tie Down	NO
DADE County Specs	N/A
Siesmic Calculations Required (California only)	N/A
Masonry ties on exterior of box to allow brick around exterior box	NO

Standard Walk In Order is 1ft increments on outside dimensions of Freezer/Cooler length and width

Please note : 3.5" depression slab required for proper door swing



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

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REGISTERED ARCHITECT No.11100072 STATE OF INDIANA

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SHEET TITLE.

EQUIPMENT PLAN & SCHEDULES

SHEET NO.

K1.0

Kolbrook Job No.	1502.236	Consultant Job No.	-

EQUIPMENT SCHEDULE

EQUIPMENT								PLUMBING						ELECTRICAL									GENERAL REMARKS
ITEM #		QTY.	DESCRIPTION	MANUFACTURER	MODEL #	N.S.F. E.T.L.	U.L. E.T.L.	WATER		WASTE			REMARKS	LOAD					SUPPLIED W/ CORD & PLUG	RECEPT. SPEC	A.F.F.	REMARKS	
								H.W.	C.W.	F.W.	DIR.	IND.		VOLTS	PHASE	AMPS	CIRCUIT SIZE	#WIRES W/ GROUND					
36CONDIL		1	36" Condiment Station Island	MILLWORK	36COND																		
LEGS-S-21		1	21" STAINLESS LEG	FRANKE	18017197																		
LEGS-S-28		1																					
4WD		1	Double 4 Wide Front Case Bakery	MILLWORK	4WD																		
46.1		1	HAND SINK WITH KNEE PADDLE	JOHN BOOS	PBHS-W-KVMB-1																		
48		1	SINK, 1 COMP. 20"W X 24"D, WALL MOUNTED	UNIVERSAL	18022189	D036264		1/2"	1/2"		1-1/2"												COMPONENT HARDWARE FAUCET T&S #TSB1100
50B		1	FC TRASH BARREL POS/HOS	RUBBERMAID	2955 WASTEBASKET, SMALL																		
70R		1	TISSUE BAG AND BOX HOLDER FOR DRIVE THRU RACK	UNIVERSAL	DD-DSPN71435																		
82A		2	4TIER x 4WIDE (16 FACING TROLLEY) FRONT LINE BAKERY CASE (NEXT GEN)	VULCAN	1019990-44									120	1	1	15	2	Y	NEMA 5-15			
96.4		2	ESPRESSO MACHINE	SHAERER	COFFE ART TOUCHIT					1/2"		1/2"		220	1	24	30	3	Y	NEMA L6-30R		**VERIFY ALL ELECT REQTS w/ MANUF	PROVIDE WATER SHUT-OFF VALVE W/ 3/8" COMPRESSION FITTING
101C	101C-3	2	DAIRY DISPENSER	AC DISPENSING	AC320-FIP / Alternate - SKECD12-V3-1-KE-1	5300/533OC								115	1	2	15	3	Y	L-5-20R		* ALT. VOLTAGE MODEL AVAILABLE (NEMA 6-20R RECEPTACLE)	** 115V MODEL HAS A 20A NEMA 5-20P PLUG; 230V MODEL HAS A 15A NEMA 5-15P PLUG; 50HZ MODEL IS NOT FURNISHED WITH CORD OR PLUG. REFERENCE MANUFACTURER'S CUTSHEET FOR UTILITY INFORMATION IF SPECIFIED ALTERNATE.
101L		1	PORTION CONTROLLED GRANULAR & POWDER DISPENSER	SURE SHOT	AC2-GP									120	1	0.5							
101Q-3		2	MULTI HOPPER COFFEE GRINDER	BUNN-O-MATIC	35600.0011									120	1	11	15	2	Y	NEMA 5-15		BUNN PROVIDED CORD & PLUG INSTALLED BY GENERAL CONTRACTOR	
104A		1	9 X 6 PUMP STATION	WIREFAB	WF35522																		
116.2A		1	THE QUIET ONE: 48 OZ. HIGH IMPACT BLENDER	VITAMIX	36019									120		15						50-60 HZ, 3 PEAK OUTPUT HORSEPOWER MOTOR	ALSO AVAILABLE IN 32 OZ. AND 48 OZ. CONTAINER 18.0 X 8.5 X 10.7 IN. (HXWXD) HEIGHT WITH LID OPEN: 24.5 IN.
119		1	HOT CHOCOLATE MACHINE	BUNN-O-MANIC	38600.0057	18		197		3/8"			20-90PSI FROM A 3/8" OR LARGER SUPPLY LINE. A SHUT OFF VALVE SHALL BE INSTALLED IN THE LINE BEFORE THE UNIT.	120/208	1	20		3	Y	L14-20P			
120F	120F-1	2R, 1L	UNDERCOUNTER REFRIGERATOR - 27" W/ CASTERS, RIGHT HINGE	DELFIELD	406-CA-SPL-RHH	7	SA 4769							115	1	7	15	3	Y	NEMA 5-15			RIGHT HAND HINGE
	120F-2		UNDERCOUNTER REFRIGERATOR - 27" W/ CASTERS, LEFT HINGE	DELFIELD	406-CA-SPL-LHH	7	SA 4769							115	1	7	15	3	Y	NEMA 5-15			LEFT HAND HINGE
124A		1	TWIN SH BREWER	BUNN-O-MATIC	51200. 0106					1/2"				120/208	1	38.5	50	3		NEMA 14-50P			
124B		7	1.5 GAL SH SERVER	BUNN-O-MATIC	27850.0200																		
124E		1	SINGLE SH BREWER	BUNN-O-MATIC	51100.0105					1/2"				120/208	1	16.8	20	3		NEMA L14-20P			
124G		2	TWIN SH STAND WITH WIFI	BUNN-O-MATIC	27875.0201									120	1	1.8	20	2	Y	NEMA 5-15P			
130		1	DONUT/BAKERY RACK AT DRIVE THRU - 35"W x 28"D	UNIVERSAL	DD-36SLC-29-RK-C																		
171B		1	DRIVE-THRU READY TO GO MAT	TRYAD	2.1																		
200A		1	ICED COFFEE BREWER - #IC3-DBC W/ ICDD	BUNN-O-MATIC	45100.01		**			1/2"			20-90 PSI MACHINE SUPPLIED WITH 3/8" O.D. MALE FLARE FITTING	120/208	1	19.5	30	4	Y	NEMA L14-30		6' CORD TO BE PROVIDED & INSTALLED BY GC	** E34066
215		2	TORNADO OVEN W/ STONE, PEEL AND (2) TRAYS - EXTENDED WARRANTY INCLUDED	TURBOCHEF	NGC-1180-1-2019									208	1	30	30		Y	NEMA 6-30			
217		1	SANDWICH STATION TABLE FOR NGSS - 16"W x 30"D	UNIVERSAL	DD-16SLC-30																		
244A		1	DUAL LANE TOASTER	HATCO	ITQ-1750-2C-DD									208	1	23.8	30	3	Y	NEMA 6-30P			
246A	246A-1	1	SINGLE SIDED HOT HOLDING UNIT	CARTER HOFFMAN	MZ343S-DD									120		15			Y	NEMA 5-20P			
257		1	8 TAP SYSTEM WITH GENERATOR	MICROMATIC	MDD-68G-E-DD					1/2"		1"		115	1	11.1	20	2	Y	NEM 5-15			
275		1	NEXT GEN FLUSH DT WINDOW	READY ACCESS	275E / 275SC																		TO BE PROVIDED AND INSTALLED BY THE EQUIPMENT SUPPLIER
292		1	36" SWING GATE	EQUIPMENT SUPPLIER	CUSTOM MILLWORK																		SEE CUSTOM MILLWORK DRAWINGS FOR DETAILS.
356		2	MOBILE ORDER METAL SHELVING FOR BOOKCASE	VULCAN																			
357		2	MILLWORK BASE FOR BOOKCASE - SINGLE	KES SUPPLIER																			
375		1	94" ASSEMBLY STATION WITH 2 REFRIGERATED UNITS	DUKE	DD94-DPC-UTR									115		10.4				NEMA 5-15			
														120		3.9				NEMA 5-15			
402		2	EMPLOYEE LOCKER	WIN-HOLT	WL-66 (156195)																		
409F		1	ICE BINS	SCOTSMAN	B23OP, B842S, B530S, B948S																		
414		1	ICE MACHINE (PRODUCTION: UP TO 1077 LBS/ 24 HRS)	SCOTSMAN	C1030SA-32B																		
420A		1	SHELF - 24"W x 60"D - ORDER (5) SHELVES PER UNIT	METRO	2460BR																		
420B		2	SHELF - 24"W x 48"D - ORDER (5) SHELVES PER UNIT	METRO	2448BR																		
420E		5	SHELF - 24"W x 72"D - ORDER (5) SHELVES PER UNIT	METRO	ADRUS2472NK3																		
421A		4	SHELF - 18"W x 60"D - ORDER (5) SHELVES PER UNIT	METRO	1860BR																		
421B		1	SHELF - 18"W x 48"D - ORDER (5) SHELVES PER UNIT	METRO	1848BR																		
421C		3	SHELF - 18"W x 36"D - ORDER (5) SHELVES PER UNIT	METRO	1836BR																		
421L		3	72" X 18" SHELVING UNTIS	METRO	1872BR																		
434A		1	112"W X 34"D THREE COMPARTMENT SINK **(JUST BAKED)**- 20"W x 28"D x 14" BOWL W/ (2) 24"W DRAIN BOARD. (3) TWIST HANDLE LEVEL DRAINS	UNIVERSAL	DD-3N202814-2D24/TSB-133-B/TSB-158			3/4"	3/4"		2"		DIR/IND WASTE AS DETERMINED BY LOCAL CODES										S.S. TOP, SPLASHES ON (3) SIDES. T&S PRE-RINSE WALL UNIT (INCLUDES BRACKET) W/ ADD-A-FAUCET 12" SPOUT TO SHIP W/ 3 BAY SINK
435B		1	108" SINK TRAX SHELVING WORKSTATION- INCLUDES SHELVING & BRACKETS **(USED FOR 112" THREE COMPARTMENT SINK)**	ISS	WST1415E																		
480	480-1	1	WALK-IN COOLER/FREEZER PACKAGE	NORLAKE	PER WALK-IN ORDER FORM				**				PROVIDE DRAIN FOR EVAPORATOR COIL CONDENSATE (HEATED IF LOCATED OUTDOORS)	**	**	**	**	**	N			INCANDESCENT DOOR LIGHT/HEATER- 115V, 5A, 1PH; FL LIGHTS (EACH)- 115V, 1PH; HTD/ AIR VENT- 115V, 2A, 1PH; FREEZER SYSTEM- 208-230V, 17A, 3PH	UTILITY INFO SHOWN IS FOR INDOOR UNIT- VERIFY ALL INFO FOR OUTDOOR UNITS; IF CONTROL WIRES REQUIRE EXTENSION, IT IS THE RESPONSIBILITY OF THE GC TO RUN THE WIRING
543		2	BAKERY PAN RACK	KELMAX	APRU1618-4-AT-BK-MOD																		
552	552-B	1	FRESH BAKED DOUBLE CONVECTION OVEN W/ STAND	ADAMATIC BELSHAW	BX-DD-D					3/4"			PROVIDE PRESSURE REDUCING VALVE, PRESSURE GAUGE & SHUT OFF VALVE AT PLUMBING CONNECTION TO OVEN.	208-220	3	20.8-22.3	30	4	Y	L15-30		2 SEPARATE CIRCUITS REQUIRED PER OVEN	ALSO REQUIRES (1) 120V/60H/1PH/15A NEMA 5-15 DEDICATED CIRCUIT PER OVEN
560	560B	1	72"X36" STAINLESS STEEL FINISHING TABLE W/ 10" DEEP OVERSHELF	UNIVERSAL	DD-6SLCB36-OS2ES																		
561		4	FINISHED PRODUCT RACK (IN SHOP USE ONLY- NOT ENCLOSED)	KELMAX	APRUE1326-5/A/T/TG/BK																		
563		1	POWER BASE	EDHARD	P-4010	29051	SA 4027							120	1		15			NEMA 5-15			
590 OR *591*	590A	1	BASE ELEVATION + INSURICE 20" FF TRIPLE 7FC-S (75K GALLONS, 7.50 GPM)	PENTAIR	CONFIG 1																		
641		5	24" x 24" Table Top	MILLWORK	TBD																		
642		1	30" x 24" ADA Table Top	MILLWORK SUPPLIER																			
680		1	OMNI TRASH																				
743b		1	Vertical Wall Mounted Baby Changing Table	ASI	9015																		
877		2	3 TIER WATERFALL MERCHANDISER	SPECTAS																			ALSO ORDER ITEM 875A, QTY 1
886B		1	MIXER CUP HOLDER	WIREFAB	WF35897																		Used for stainless cups at Tap station.
886C		2	LID RACK	WIREFAB	WF35873																		Hung on Tap System door.
924		12	Dining Chair	ALLERMUIR	DB81																		
1409		1	POWDER & SYRUP RACK																				
1423		1	DT POS Cart 48"W	METRO	DD2448CS																		
1425		1	30" CUP CART	METRO																			
1426		2	24" POS Metro Cart	METRO	DD2424POS																		
1431		1	36" Worktable with NC Base	METRO	DB303634WT																		
1445		1	Drive Thru Cart 14"D X 30"W X 59"H	METRO	DD-DT30OMO																		
1500		1	HVB Coffee Cart	FRANKE	18017419																		
1501		1	Dump Sink Table/Espresso - Right	FRANKE	18017828																		
1503		1	Ice Bin/Initiator - Right	FRANKE	18017813																		
1505		1	HWB Cabinet	FRANKE	18017716																		
1507		2	Worktop Riser for UCR	FRANKE	18018506																		
1508		1	Trash/Compost	FRANKE	18018667																		
1516		3	LID HOLDER 1 WIDE 4 TALL																				
1517		1	LID HOLDER 2 WIDE 3 TALL	FRANKE																			

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SHEET TITLE:

EQUIPMENT SCHEDULE

SHEET NO.

K1.1

Kolbrook Job No.	1502.236	Consultant Job No.	-

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MECHANICAL SYMBOLS

	–	SUPPLY DIFFUSER	RF	–	REFRIGERANT PIPING
	–	EXHAUST REGISTER / GRILLE	CD	–	CONDENSATE DRAIN
	–	RETURN GRILLE		–	PRESSURE REDUCING VALVE
	–	SUPPLY RISER UP THROUGH STRUCTURE		–	ISOLATION VALVE (BALL)
	–	RETURN RISER UP THROUGH STRUCTURE		–	ISOLATION VALVE (BUTTERFLY)
	–	EXHAUST RISER UP THROUGH STRUCTURE		–	MOTORIZED CONTROL VALVE
	–	SUPPLY RISER DOWN		–	CHECK VALVE
	–	RETURN RISER DOWN	SD	–	DUCT SMOKE DETECTOR
	–	EXHAUST RISER DOWN	P	–	PRESSURE GAUGE
	SWS	SIDE WALL SUPPLY GRILLE	CO_2	–	CARBON DIOXIDE SENSOR FOR OUTSIDE AIR MODULATION
	SWR	SIDE WALL RETURN/EXHAUST GRILLE		POD	POINT OF DISCONNECT
UP	–	DUCT OFFSET UP		POC	POINT OF CONNECTION
(E)	–	EXISTING DUCTWORK	M	–	CASEWORK OR OTHER OBSTRUCTION MOTORIZED DAMPER
	–	DUCT OR EQUIPMENT TO BE REMOVED	T	–	THERMOSTAT / SENSOR. MOUNT @ +48" AFF (IF MOUNTED OVER 46" TO TOP OF DEVICE).
	–	EXISTING DUCT TO REMAIN	TC	–	TIME CLOCK
	–	DUCT	S	–	TEMPERATURE SENSOR
	–	DUCT TRANSITION	1.0	DL	DOOR LOUVER W/ MINIMUM FREE AREA (SQ. FT.)
	MVD	MANUAL VOLUME DAMPER	C	UC	UNDER CUT DOOR
BDD	BDD	BACKDRAFT DAMPER	SA	SA	SUPPLY AIR DUCT
	FD	AUTOMATIC FIRE DAMPER	RA	RA	RETURN AIR DUCT
	CSFD	COMBINATION SMOKE/FIRE DAMPER	EX	EX	EXHAUST DUCT
FU 1		TYPICAL EQUIPMENT DESIGNATION	OA	OA	OUTDOOR AIR DUCT
AIRFLOW (CFM) / S-250-A / 10"X6" / TYPE TAG		TYPICAL AIR DEVICE DESIGNATION			

MECHANICAL ABBREVIATIONS

- A -	
ABV	ABOVE
A/C	AIR CONDITIONER
AFF	ABOVE FINISH FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
- B -	
BDD	BACKDRAFT DAMPER
BEL	BELOW
BLDG	BUILDING
BTUH	BRITISH THERMAL UNITS PER HOUR
- C -	
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
COMP	COMPRESSOR
CONT	CONTINUATION
- D -	
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DI	DIGITAL INPUT
DIA	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
DTR	DOWN THRU ROOF
DWD	DOUBLE WALL DUCT
DWG	DRAWING
DX	DIRECT EXPANSION
- E -	
(E)	EXISTING
EA	EXHAUST AIR
EAD	EXHAUST AIR DUCT
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EMS	ENERGY MANAGEMENT SYSTEM
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
- F -	
FAI	FRESH AIR INTAKE
FLR	FLOOR
FPI	FINS PER INCH
FT	FOOT, FEET
- G -	
GA	GAUGE
GI	GALVANIZED IRON
GPM	GALLONS PER MINUTE
- H -	
HP	HORSEPOWER
HR	HOUR
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HZ	HERTZ
- I -	
IN.	INCHES
- K -	
KW	KILOWATT
- L -	
(L)	LINED DUCT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LWT	LEAVING WATER TEMPERATURE
- M -	
MA	MIXED AIR
MAX	MAXIMUM
MB	MACHINE BOLT
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOTOR STARTER
MTD	MOUNTED
- N -	
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
- O -	
OA	OUTSIDE AIR
OC	ON CENTER
ODP	OUTDOOR DRIP PROOF
OPER	OPERATING
OSA	OUTSIDE AIR
- P -	
P.D.	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
- Q -	
QTY	QUANTITY
- R -	
RA	RETURN AIR
RAD	RETURN AIR DUCT
RG	RETURN GRILLE
RL	REFRIGERATION LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERATION SUCTION
- S -	
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
SENS	SENSIBLE
SF	SUPPLY FAN
SMS	SHEET METAL SCREW
SOV	SHUT OFF VALVE
S.P.	STATIC PRESSURE
SQ	SQUARE
S/S	STAINLESS STEEL
SWR	SIDEWALL RETURN GRILLE
SWS	SIDEWALL SUPPLY GRILLE
SYM	SYMBOL
- T -	
TDH	TOTAL DYNAMIC HEAD
TG	TRANSFER GRILLE
TSTAT	THERMOSTAT
TYP	TYPICAL
- U -	
UNO	UNLESS NOTED OTHERWISE
UTR	UP THRU ROOF
- V -	
VAC	VOLTS ALTERNATING CURRENT
VFD	VARIABLE FREQUENCY DRIVE
- W -	
WT	WEIGHT
W/	WITH

MECHANICAL NOTES

1. ALL MECHANICAL SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE ARCHITECT.
2. ALL ENVIRONMENTAL AIR DUCTS SHALL DISCHARGE A MINIMUM OF 3' FROM OPENINGS TO STRUCTURE PER INTERIM CHICAGO MECHANICAL CODE (14M).
3. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS AND CIRCUMSTANCES UNDER WHICH THE WORK SHALL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.
4. ALL PIPES AND DUCTS SHALL BE SUPPORTED AND BRACED PER "SMACNA" GUIDELINES & OSHPD PRE-APPROVED.
5. THE CONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH OTHER TRADES TO ASSURE ALL WORK CAN BE PROPERLY INSTALLED WITHOUT INTERFERENCE OR DELAY.
6. CLEAN UP ALL WASTE AND DEBRIS AT THE END OF EACH WORKING DAY AND AT THE COMPLETION OF THE JOB.
7. ALL SPECIFIED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
8. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
9. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL HAVE ALL AIR SYSTEMS BALANCED TO INDICATED AIR FLOW QUANTITIES BY A CERTIFIED AABC BALANCING CONTRACTOR AND PROVIDE A POST-CONSTRUCTION AIR BALANCE REPORT.
10. DUCT SIZES SHOWN ON DRAWINGS ARE IN INCHES (CLEAR INSIDE DIMENSIONS) AND REPRESENT THE FREE OR UNOBSTRUCTED AREA REQUIRED ON THE INSIDE OF THE DUCT.
11. ALL DUCTWORK SHALL BE GALVANIZED STEEL PER SMACNA GUIDELINES UNLESS OTHERWISE NOTED.
12. RUN ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. PIPING SHALL BE ABOVE DUCTWORK.
13. DESIGN OF THE MAJOR HVAC EQUIPMENT IS BASED ON MANUFACTURER AS SCHEDULED. OTHER MANUFACTURERS MAY BE SUBSTITUTED IF THEIR EQUIPMENT IS SIGNIFICANTLY EQUAL TO THE EQUIPMENT SHOWN IN THESE DRAWINGS/AS SCHEDULED AND ON SPECIFICATIONS. ACCEPTANCE OF THE ALTERNATE EQUIPMENT WILL BE BASED ON EVALUATION BY THE DESIGN ENGINEER OF CAPACITY, PERFORMANCE, EFFICIENCY, SIZE (FOOTPRINT AND HEIGHT), WEIGHT, PRESSURE LOSS, NOISE LEVEL, AND MINIMAL PIPING AND ELECTRICAL CHANGES.
14. ALL COSTS REQUIRED FOR A SUBSTITUTION SHALL BE BORNE BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO:
    - MODIFICATIONS OF PIPING AND ELECTRICAL CONNECTIONS
    - COSTS FOR ADDITIONAL REVIEW TIME REQUIRED OF THE DESIGN ENGINEER TO EVALUATE THE SUBSTITUTION
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE THE SUBSTITUTED EQUIPMENT FIT WITHIN THE SPACE LIMITATIONS SET ASIDE FOR THE DESIGNED EQUIPMENT.
16. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
17. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE CODES AND REGULATIONS AND OTHER AUTHORITIES HAVING JURISDICTION.
18. ALL MECHANICAL WORK SHALL COMPLY WITH INTERIM CHICAGO MECHANICAL CODE (14M). MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
19. IF REQUIRED, SMOKE DETECTORS SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER'S AND FACTORY INSTALLED. WHEN UNAVAILABLE THRU MFR. CONTRACTOR SHALL INSTALL SMOKE DETECTORS IN THE RETURN AIR DUCT, UNO, NEAR THE CEILING LINE, UPSTREAM OF ANY BRANCH TAKE-OFFS.
20. FABRICATE, INSTALL, SEAL AND INSULATE ALL DUCTWORK IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF THE INTERIM CHICAGO MECHANICAL CODE (14M) AND IECC 2018.
21. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER.
22. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT SITE SERVICES WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG AND PERIOD OF TIME.
23. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
24. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
26. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
27. SUBMISSION OF A PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
28. ALL DUCTWORK AND CEILING, WALL OR ROOF PENETRATIONS SHALL BE COORDINATED WITH STRUCTURAL JOISTS AND BEAMS. PROVIDE OFFSETS IN PIPES AND DUCTS TO AVOID CUTTING OF BEAMS AND JOISTS.
29. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.

MECHANICAL SHEET INDEX

SR NO.	SHEET NO.	SHEET NAME	SCALE
1	M1	MECHANICAL GENERAL NOTES AND SYMBOLS	N.T.S.
2	M2	MECHANICAL SPECIFICATIONS	N.T.S.
3	M3	MECHANICAL FLOOR PLAN	1/4" = 1'-0"
4	M4	MECHANICAL DETAILS	N.T.S.
5	M5	MECHANICAL SCHEDULES	N.T.S.
6	H1	HOODS DRAWINGS	N.T.S.
7	H2	HOODS DRAWINGS	N.T.S.

REFERENCE CODE

CONTACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS

1. 2012 INTERNATIONAL MECHANICAL CODE(IMC).
2. 2012 INTERNATIONAL BUILDING CODE(IBC).
3. 2018 INTERNATIONAL ENERGY CONSERVATION CODE(IECC).
4. 2006 INTERNATIONAL PLUMBING CODE(IPC).
5. 2012 INTERNATIONAL FUEL GAS CODE(IFGC).
6. 2012 INTERNATIONAL FIRE CODE(IFC).
7. INDIANA ELECTRICAL CODE

NOTES FOR NFPA 96 (STANDARD FOR THE INSTALLATION OF EQUIPMENT FOR THE REMOVAL OF SMOKE AND GREASE-LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT)

- PROVIDE TWO 20X20 OPENINGS EQUALLY SPACED, FOR PERSONNEL ENTRY AT THE HORIZONTAL DUCT & ONE AT THE TOP OF THE VERTICAL RISER TO ACCOMMODATE DESCENT.
- ACCESS PANELS SHALL BE OF THE SAME MATERIAL AND THICKNESS AS THE DUCT. ACCESS PANELS SHALL HAVE A GASKET OR SEALANT THAT IS RATED FOR 1500 DEG F AND SHALL BE GREASE TIGHT. FASTENERS USED TO SECURE THE ACCESS PANELS SHALL BE OF CARBON STEEL OR STAINLESS STEEL AND SHALL NOT PENETRATE DUCT WALLS.
- DUCTS SHALL BE CONSTRUCTED OF AND SUPPORTED BY 16 GAUGE STEEL.
- ALL SEAMS, JOINTS, PENETRATIONS, AND DUCT TO HOOD COLLER CONNECTIONS SHALL HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD.
- ROOF TERMINATION SHALL HAVE:
    - THE EXHAUST FLOW DIRECTED UP AND AWAY FROM THE SURFACE OF THE ROOF AND A MINIMUM OF 40 IN. ABOVE THE ROOF SURFACE.
    - THE ABILITY TO DRAIN GREASE OUT OF ANY TRAPS OR LOW POINTS FORMED IN THE FAN OR DUCT NEAR THE TERMINATION OF THE SYSTEM TO A RAINPROOF COLLECTION CONTAINER WITH A HINGED UP-DISCHARGE FAN SUPPLIED WITH WEATHERPROOF ELECTRICAL CABLE & SERVICE HOLD-OPEN RETAINER TO PERMIT PROPER INSPECTION AND CLEANING.
    - AIR VELOCITY SHALL NOT BE LESS THAN 1,500 FT PER MIN.
    - THE OPERATION OF THE HOOD EXTINGUISHING SYSTEM SHALL AUTOMATICALLY SHUT OFF ALL SOURCES OF FUEL.
    - WHERE CONCEALED, THE DUCT SHALL HAVE A HIGH TEMPERATURE, INORGANIC, FOIL ENCAPSULATED CERAMIC FIBER BLANKET DUCT WRAP, ALLOWING A ZERO INCH CLEARANCE TO COMBUSTIBLE CONSTRUCTION AND A 2 HOUR FIRE RESISTIVE RATED ENCLOSURE. INSULATION SHALL BE REMOVABLE AT CLEANOUTS. LOCATIONS TO BE TAGGED WITH A 2" BRASS TAG.

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ISSUED FOR PERMIT	04/11/2025

DRAWN BY:

CHECKED BY:

SHEET TITLE.

MECHANICAL GENERAL NOTES AND SYMBOLS

SHEET NO.

M1

Kolbrook Job No.	1502.236	Consultant Job No.	-

DIVISION - 15 MECHANICAL SPECIFICATIONS

GENERAL

A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

SCOPE

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CON-STRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOW-ANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PRO-VIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

HEATING, VENTILATING AND AIR CONDITIONING GENERAL

A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.

B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

SCOPE

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

EQUIPMENT

A. 1. ROOFTOP UNITS: FURNISH HEATING AND AIR CONDITIONING AS SCHEDULED. UNIT TO BE COMBINED PACKAGED SYSTEM, ALL SEASON EQUIPMENT, CONSISTING OF GAS HEATING SECTION, BLOWER, DX COIL, COMPRESSOR(S), AND AIR COOLED CONDENSING SECTION. UNIT SHALL BE DESIGNED FOR DOWN FLOW ARRANGEMENT WITH ALL DUCT PENETRATIONS WITHIN FACTORY ROOF CURB.

2. FEATURES: UNITS TO BE WOUND FOR VOLTAGE AND PHASE AS SCHEDULED. HEAVY GAUGE ALUMINIZED STEEL, STAINLESS STEEL OR COATED HEAT EXCHANGER WILL BE ACCEPTABLE. UNIT MUST BE A.G.A. APPROVED FOR OUTDOOR APPLICATION. DIRECT EXPANSION COIL WITH FACTORY INSTALLED EXPANSION VALVE - BLOWER SHALL BE OF THE CENTRIFUGAL BELT DRIVEN OR MULTI-SPEED DIRECT DRIVE TYPE WITH FORWARD CURBED BLADES - BLOWER AND MOTOR ISOLATED FOR QUIET OPERATION - BUILT IN MOTOR STARTER WITH OVER VOLTAGE PROTECTION. HERMETICALLY SEALED COMPRESSOR WITH INHERENT OVERLOAD PROTECTION THERMOSTAT - NON-PRORATED 5-YEAR WARRANTY ON COMPRESSOR AND 10-YEAR WARRANTY ON HEAT EXCHANGER - CONDENSER COIL CONSTRUCTED OF COPPER TUBING WITH ALUMINUM FINS - CRANKCASE HEATERS - BUILT IN MOTOR STARTERS ELECTRIC IGNITION - HIGH, LOW PRESSURE CUTOUT ON COMPRESSOR - SHUTOFF VALVES ON LIQUID AND SUCTION LINES - SHORT CYCLE TIMER PROTECTION - FILTER DRYER VIBRATION ISOLATION. UNIT FACTORY CHARGED.

3. ACCESSORIES: SUPPLY AND RETURN FILTER CASING ASSEMBLY, TWO COMPLETE SETS OF THROWAWAY TYPE FILTERS. FILTERS SHALL BE 2" THICK. ONE SET TO BE REMOVED AND REPLACED JUST PRIOR TO FINAL INSPECTION - FULL ECONOMIZER PACKAGE WITH LOW LEAKAGE FRESH AIR STANDARD RETURN AIR DAMPERS AND DAMPER MOTOR, - MINIMUM POSITION SETTING - PROVIDE MANUFACTURER'S INTERFACE AS REQUIRED FOR OPERATION WITH THERMOSTAT AS SPECIFIED. PROVIDE MOUNTING CURB APPROVED BY NATIONAL ROOF CONTRACTORS ASSOCIATION TO SUPPORT THE ENTIRE ASSEMBLY WITH NAILER STRIP AND AIR TIGHT GASKET.

B. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH PROGRAMMABLE THERMOSTAT. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:

- COOLING: 75°F MAXIMUM OCCUPIED COOLING TEMPERATURE
  85°F COOLING NIGHT SETBACK.
- HEATING: 70°F MAXIMUM OCCUPIED HEATING TEMPERATURE
  60°F HEATING NIGHT SETBACK.
- FAN: CONTINUOUS IN OCCUPIED AND RECOVERY MODE AND WITH HEATING OR COOLING EQUIPMENT IN UNOCCUPIED MODE.
- DEADBAND: CAPABLE OF MAINTAINING A 5°F DEADBAND.
- CLOCK: 7 DAY CAPABLE OF 7 DIFFERENT DAY SCHEDULES.
- OVERNIGHT: HAVE A 2 HOUR OVERRIDE ACCESSIBLE TO MANAGER.
- BACKUP: CAPABLE OF MAINTAINING PROGRAMMED SETTING FOR AT LEAST 10 HOURS WITHOUT POWER.

C. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

DUCTWORK

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	GAUGE
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	METHOD
17" AND LESS	"S" AND DRIVE CLEATS
18" TO 30"	"L" STANDING SEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING SEAMS ON 3'-0" CENRERS

GREASE DUCTS SHALL BE BLACK CARBON STEEL NOT LESS THAN 0.054" (16 GA.) ALL SEAMS, JOINTS, AND PENETRATIONS SHALL HAVE A LIQUID TIGHT, CONTINUOUS, EXTERNAL WELD.

1. THE KITCHEN HOOD EXHAUST DUCTWORK SHALL BE ENCLOSED IN A RATED ENCLOSURE PER CODE.

2. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE:
   - ALL NECESSARY TRANSITION AND CONNECTION FITTINGS TO THE HOOD AND EXHAUST FANS.
   - ALL CLEAN-OUT ACCESS PANELS AS REQUIRED BY CODE.
   - ALL ELBOW AND TRANSITION FITTINGS.
   - ALL HANGERS AND SUPPORTS.
   - SHOP DRAWINGS SHOWING PROPOSED FABRICATION AND INSTALLATION COORDINATED WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.

ROUND LOW PRESSURE DUCTS SHALL BE SPIRAL WOUND AS MANUFACTURED BY UNITED SHEET METAL COMPANY OR SHOP FABRICATED ROUND DUCTS WITH PITTSBURGH LOCK LONGITUDINAL SEAMS. GAUGES FOR SHOP FABRICATED DUCTS SHALL BE AS FOLLOWS:

UP TO 12" IN DIAMETER	NO. 26 GAUGE
13" TO 30"	NO. 24 GAUGE
31" TO 42"	NO. 22 GAUGE
43" TO 60"	NO. 20 GAUGE

ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER AND MAY BE SMOOTH ELBOWS OR 5 PIECE 90 DEGREE ELBOWS AND 3 PIECE 45 DEGREE ELBOWS. JOINTS OF ROUND DUCTS SHALL BE SLIP TYPE WITH A MINIMUM OF 3 SHEET METAL SCREWS.

1. ALL EXPOSED ROUND LOW PRESSURE DUCTWORK SHALL BE INTERNALLY LINED.
2. ALL LOW PRESSURE DUCTWORK SHALL BE EXTERNALLY SEALED USING UNITED SHEET METAL, MMM EC-800, OR HARDCAST DUCT SEALER INSTALLED IN THE JOINTS PRIOR TO CLOSURE. ADDITIONALLY SEAL ALL EXTERNAL TRANSVERSE JOINTS AND FITTING CONNECTIONS EXTERNALLY.

C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MIN. 1" (R—6) THICK EXTERNAL THERMAL INSULATION EXCEPT DUCT LINED FOR ACOUSTICAL PURPOSES. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL..

D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.

E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

HANGERS AND SUPPORTS

A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

FLASHING

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.
B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB-CONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

DAMPERS

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.

CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.

C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, CEILINGS, AND ROOFS AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.

D. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE PROVIDE AND INSTALL BARBER-COLEMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTERLINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

SUPPORT OF DUCT SYSTEM

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED MANUAL ARE ADHERED TO.

DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'-0" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'-0" O.C.

REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

A. AIR DISTRIBUTION SYSTEMS:

1. INSPECT INSTALLATION AND VERIFY CONFORMITY TO DESIGN. VERIFY THAT SUPPLY, RETURN, AND EXHAUST DUCTS HAVE BEEN PRESSURE-TESTED FOR LEAKAGE AS RECOMMENDED IN THE APPROPRIATE SMACNA STANDARDS.
2. VERIFY THAT VOLUME AND FIRE DAMPERS ARE PROPERLY LOCATED AND FUNCTIONAL.
3. VERIFY THAT SUPPLY, RETURN, EXHAUST AND TRANSFER GRILLES, REGISTERS AND DIFFUSERS ARE INSTALLED AND OPERATING PROPERLY.

B. VERIFY THAT CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONING AS INTENDED, INCLUDING ELECTRICAL POWER, CONTROL AND INTERLOCK WIRING, DAMPER SEQUENCES, SMOKE DETECTORS, ETC.

C. UPON COMPLETION OF THE INSTALLATION AND START-UP OF THE MECHANICAL EQUIPMENT, TEST, ADJUST AND BALANCE SYSTEM COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.

D. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH TO THE ARCHITECT THE FOLLOWING DATA:

1. SUMMARY OF MAIN SUPPLY, RETURN AND EXHAUST DUCT PILOT TUBE TRANSVERSES AND FAN SETTINGS.
2. AIR QUANTITIES AT EACH SUPPLY, RETURN, RELIEF AND EXHAUST AIR HANDLING DEVICE.
3. AIR PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY FAN AND EXHAUST FAN.
4. MOTOR CURRENT AND VOLTAGE READINGS AT EACH EQUIPMENT MOTOR.
5. TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS CONFORMING TO AABC AND NEBB REQUIREMENTS. THE REPORT SHALL INCLUDE AIR FLOW SCHEMATIC DIAGRAMS INDICATING AND IDENTIFYING TEST LOCATIONS SUCH AS DUCT TRANSVERSE, OUTLET READINGS, PRESSURE READINGS AND TEMPERATURE READINGS, AND SHALL BE REFERENCED TO THE RECORDED DATA ON THE FORMS.

E. MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE, AND AT THAT TIME MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEM COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH SPACE.

F. INSTRUCTION: THE CONTRACTOR SHALL INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

MECHANICAL
TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

A. TELEPHONE - THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT AS LISTED ON SHEET A-1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.

C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.

D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.

E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

NOTE FOR TENANT GENERAL CONTRACTOR

IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

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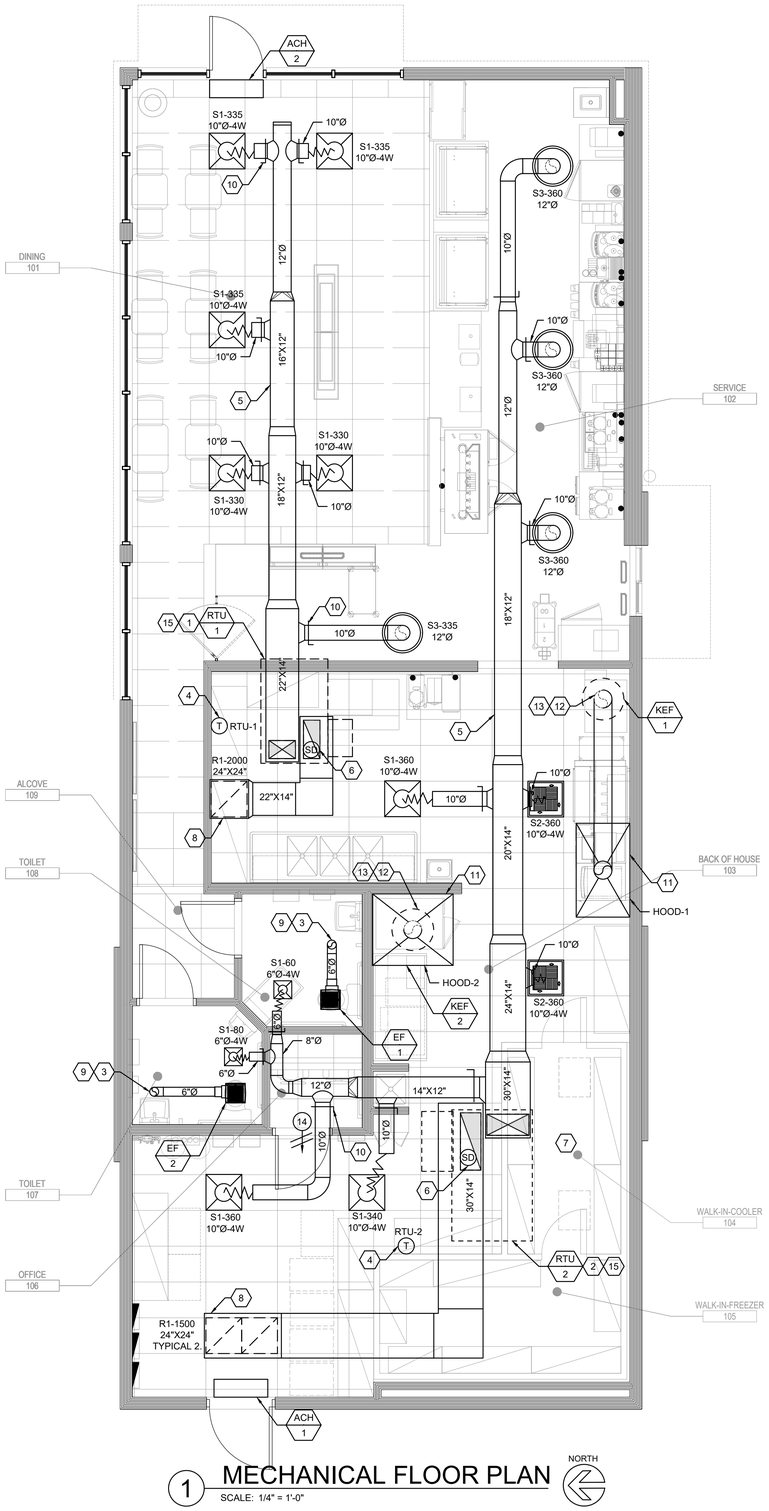
MECHANICAL SPECIFICATIONS

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

MECHANICAL GENERAL NOTES

1. DUCTWORK SHALL BE RUN ABOVE CEILING AS HIGH AS POSSIBLE IN GENERAL LOCATIONS SHOWN, BUT SHALL CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDINGS. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.
2. LOCATE EQUIPMENT AND FIXTURES APPROXIMATELY AS SHOWN CONFORMING TO ALL ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL SUPPORTS, HANGERS AND OPENINGS AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR CLEARANCES, AND EXACT LOCATIONS OF EQUIPMENT. ALL EQUIPMENT AND FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN FULL ACCORDANCE WITH ALL APPLICABLE CODES.
3. CEILING MOUNTED AIR DEVICES SHALL BE APPROXIMATELY AS SHOWN. FOR EXACT LOCATION AND FRAME MOUNTING TYPES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. ALL CEILING DIFFUSERS TO BE 4-WAY UNLESS NOTED OTHERWISE BY AIRFLOW ARROWS, ON FLOOR PLAN. EXTEND FLEX DUCTWORK FROM DIFFUSERS. INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS AND CLAMPS TO BE USED AT BOTH ENDS.
4. DUCTWORK WITH TURNING VANES INSTALLED IN ALL ELBOWS OF SUPPLY AIR DUCTS, AIR EXTRACTORS AT ALL RECTANGULAR TAKE-OFFS, AND TWIST-IN TAP WITH MANUAL VOLUME DAMPER AT ALL ROUND BRANCH TAKE-OFFS TO AIR DEVICES.
5. DUCT SMOKE DETECTORS REQUIRED IN UNIT RETURN AIR PLENUM SHALL BE IONIZATION TYPE AND SHALL BE APPROVED AND LISTED BY UL OR FM FOR DUCT INSTALLATION. ACTIVATION OF A DUCT DETECTOR SHALL CAUSE SHUTDOWN OF RTU. CONTROL AND INTERLOCK WIRING SHALL RUN IN CONDUIT WHICH SHALL BE SIZED TO SUIT THE NUMBER, TYPE AND SIZE OF CONDUCTORS AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. CONTROL AND INTERLOCK WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING PER LOCAL APPLICABLE ELECTRICAL CODE. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC. PROVIDE ALL APPROPRIATE ACCESS PANELS.
6. PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT WITH SUB-BASE AS NOTED ON PLAN. TRANSFORMERS AND 24 VOLT CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING. THERMOSTATS SHALL BE MOUNTED 48" A.F.F. AND SET POINT SHALL BE AS FOLLOWS: COOLING IN DINING 74°F; ALL OTHERS 78°F; HEATING 68°F FOR ALL. VERIFY FINAL LOCATION WITH OWNER.
7. BUILDING AIR SYSTEMS SHALL BE BALANCED PER DATA INCLUDED ON THE DRAWINGS TO ACHIEVE RELATIVE AIR VOLUMES AS INDICATED ON THE DRAWINGS AND SCHEDULED HEREIN.
8. ALL DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS.
9. WHERE SHOWN ON THE DRAWINGS, PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS OR SPLITTERS WITH HINGE AND ROD THRU SIDE OF DUCT WITH SET SCREW. VOLUME DAMPER HANDLES SHALL BE INSTALLED ON THE BOTTOM OF THE SPIN-IN FITTING AND SHALL HAVE RING SET IN FULL OPEN POSITION.
10. KITCHEN EXHAUST HOODS: EXTEND EXHAUST AND MAKE-UP AIR DUCT AS SHOWN AND TRANSITION AS REQUIRED TO HOOD TAPS. REFER TO HOOD DRAWINGS SHEET H1 FOR EXACT SIZES AND LOCATIONS. SLOPE EXHAUST DUCTS BACK TO KITCHEN EXHAUST HOOD. PROVIDE ACCESS DOORS AS REQUIRED FOR INSPECTION AND CLEANING. ENCLOSE KITCHEN EXHAUST DUCT IN FIRE BARRIER 15A FIRE RETARDANT DUCT WRAP AS REQUIRED BY CODE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. HEIGHT TO FAN OUTLET: 40" ABOVE ROOF. KITCHEN HOOD SUPPLY AND EXHAUST FANS SHALL BE INTERLOCKED WITH THE FIRE SUPPRESSION SYSTEM.
11. COORDINATE LOCATIONS OF EXHAUST FAN, MAKE-UP AIR UNIT, AND RTU'S WITH EXISTING STEEL BEAMS AND JOIST. COORDINATE WITH STRUCTURAL ENGINEER.
12. ALL EXHAUST OUTLETS WILL BE A MINIMUM OF 10'-0" FROM ANY AIR INTAKE.

MECHANICAL KEY NOTES

1. HVAC CONTRACTOR SHALL SUPPLY AND INSTALL A 5 TON UNIT, REFER TO EQUIPMENT SCHEDULE ON SHEET M5. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCT WORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN.
2. HVAC CONTRACTOR SHALL SUPPLY AND INSTALL A 7.5 TON UNIT, REFER TO EQUIPMENT SCHEDULE ON SHEET M5. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCT WORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN.
3. EXTEND DUCTS FROM EACH CEILING EXHAUST FAN TO 10"Ø AT EXHAUST DUCT THROUGH ROOF. TERMINATE ROOF DUCT NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE. PROVIDE WEATHERPROOF CAP AND BIRDSCREEN.
4. THERMOSTAT LOCATED AT 48" ABOVE FINISH FLOOR OR ALIGNED WITH LIGHT SWITCH. THERMOSTAT AT SHALL BE COMPATIBLE WITH TEMPERATURE SENSOR. PROVIDE THERMOSTAT AT WITH WIFI CAPABILITIES. STUB CONDUIT INTO CEILING AT THERMOSTAT LOCATION.
5. FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK. SIZE AS NOTED ON DRAWINGS. DUCTWORK SIZES ARE SHEET METAL SIZED. ALL NEW DUCTWORK SHALL HAVE 1" INTERNAL LINER.
6. PROVIDE 120V SMOKE DETECTOR IN RETURN AIR DUCT TO MEET LOCAL CODE REQUIREMENTS. PROVIDE INTERLOCK WIRING TO DE-ENERGIZE ALL RTU'S UPON DETECTION OF SMOKE.
7. WALK-IN COOLER BY OTHERS.
8. 1" EXTERNALLY INSULATED RETURN AIR DUCT. COORDINATE ROUTING WITH EXISTING STRUCTURE, PIPING ETC.
9. CONTRACTOR SHALL ENSURE THAT EXHAUST FANS ARE AT LEAST 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES FOR RTU-1, RTU-2 AND ADJOINING TENANT'S OUTSIDE AIR INTAKE.
10. VOLUME DAMPER AT DUCT CONNECTION TO MAIN SUPPLY AIR DUCT TYPICAL.
11. EXHAUST HOOD TO BE PROVIDED BY OWNER AND INSTALLED MECHANICAL CONTRACTOR. EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. VOLUME OF EXHAUST PER U.L. LISTING FOR HOOD. SEE ARCHITECTURAL DRAWINGS FOR HOOD MOUNTING LOCATION AND DIMENSIONS.
12. 12"Ø EXHAUST RISER UP FROM HOOD COLLAR. EXTEND DUCT UP TO FAN ON ROOF. EXHAUST DUCT AND FIRE BARRIER DUCT WRAP PROVIDED BY OWNER INSTALLED BY MECHANICAL CONTRACTOR. IF WELDED EXHAUST DUCT IS USED, MECHANICAL CONTRACTOR TO PROVIDE EXHAUST DUCT AND FIRE BARRIER DUCT WRAP.
13. ROOF MOUNTED KITCHEN EXHAUST FAN KEF-1, KEF-2 AND CURB TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL SEE EQUIPMENT SCHEDULE AND FAN/HOOD DETAILS FOR ADDITIONAL INFORMATION.
14. 1" UNDERCUT DOOR.
15. COORDINATE RTU-1 AND RTU-2 LOCATION WITH EXISTING ROOF JOIST. COORDINATE WITH STRUCTURAL ENGINEER.

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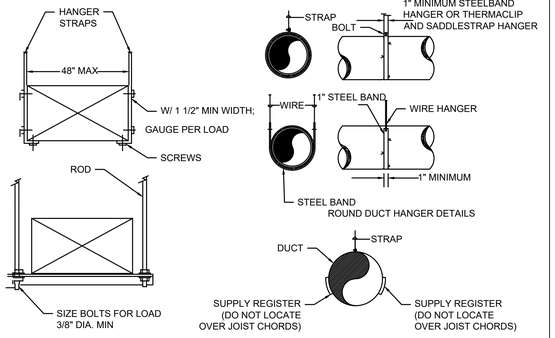
MECHANICAL FLOOR PLAN

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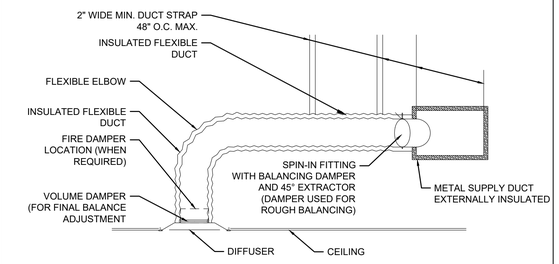
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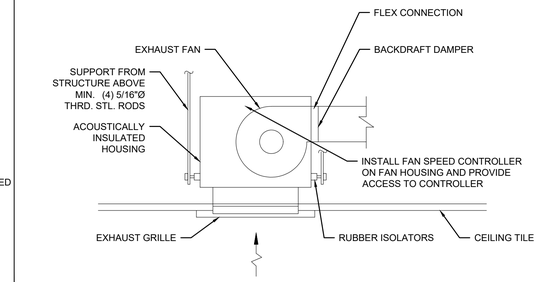


HANGER SUPPORT DETAIL NOT TO SCALE	3

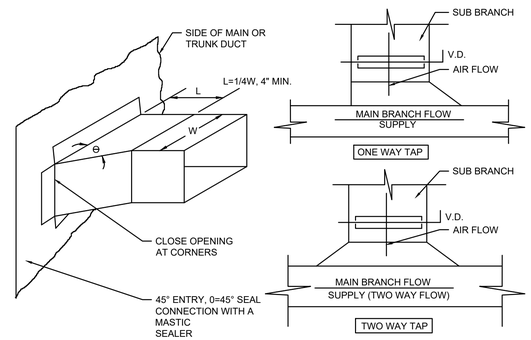


*REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR COMPONENT AND DEVICE SPECIFICATIONS.

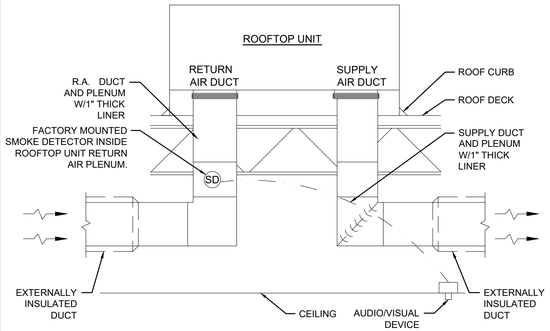
HVAC DUCTWORK DETAIL NOT TO SCALE	2



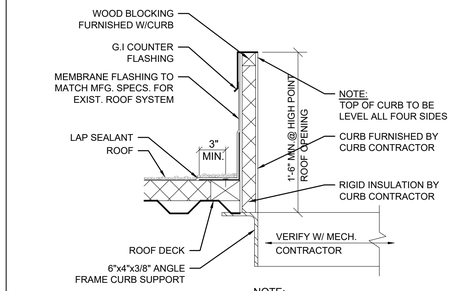
CEILING MTD. EXHAUST FAN NOT TO SCALE	1



TYPICAL BRANCH CONNECTION DETAILS NOT TO SCALE	6

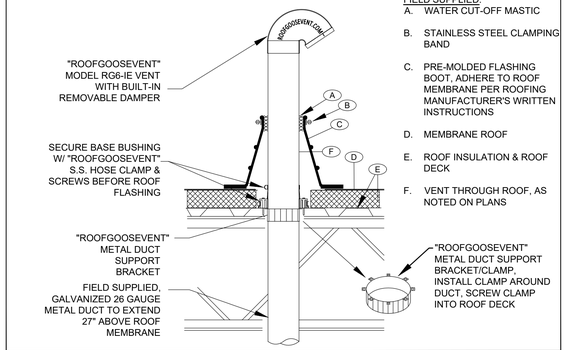


ROOFTOP UNIT MOUNTING DETAIL NOT TO SCALE	5



NOTE:
CURB FURNISHED BY CONTRACTOR
CURB SHALL BEAR DIRECTLY ON STRUCTURAL STEEL, NOT ON METAL DECK. ROOF TOP MUST SIT LEVEL

ROOF CURB SECTION NOT TO SCALE	4



FIELD SUPPLIED:
A. WATER CUT-OFF MASTIC
B. STAINLESS STEEL CLAMPING BAND
C. PRE-MOLDED FLASHING BOOT, ADHERE TO ROOF MEMBRANE PER ROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS
D. MEMBRANE ROOF
E. ROOF INSULATION & ROOF DECK
F. VENT THROUGH ROOF, AS NOTED ON PLANS

CEILING EXHAUST FAN RELIEF VENT DETAIL NOT TO SCALE	7

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DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
ISSUED FOR PERMIT	04/11/2025

DRAWN BY:

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SHEET TITLE.

MECHANICAL DETAILS

SHEET NO.

M4

Kolbrook Job No.	1502.236	Consultant Job No.	-

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PACKAGED ROOFTOP UNIT SCHEDULE

GENERAL				COOLING COIL SECTION				SUPPLY FAN				GAS HEATING				ELECTRICAL DATA			EFFICIENCY		PHYSICAL CHARACTERISTICS				TYPE OF SYSTEM	MODEL	BASIS OF DESIGN	NOTES
EQUIPMENT TAG	CONDITION	LOCATION	QUANTITY	NOMINAL TONS	TYPE OF REFRIGERANT	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	CFM	OA (CFM)	ESP (in. wc)	MOTOR BHP	INPUT (MBH)	OUTPUT (MBH)	NO. OF STAGES	TEMP. RISE (°F)	MCA	MOCP	V/PH/HZ	EER	AFUE	DIMENSIONS(in) L	DIMENSIONS(in) W	DIMENSIONS(in) H	NET WEIGHT (lbs)				
RTU-1	NEW	ROOF	1	5	R410A	61	51	2000	500	1	0.86	130	104	2	35-65	30	45	208/3/60	14	80%	69 7/8	44 1/4	40 7/8	822	GAS BASED ROOF TOP UNIT	YHCO60	TRANE	1 TO 12
RTU-2	NEW	ROOF	1	7.5	R410A	90	71	3000	850	1	1.14	150	121	2	35-65	42	50	208/3/60	11	81%	88	53 1/2	51	1013	GAS BASED ROOF TOP UNIT	YSJO90	TRANE	1 TO 12

NOTES:
01. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
02. PROVIDE SMOKE DETECTOR IN THE RETURN DUCT FOR UNITS PROVIDING 2000CFM OR GREATER. PROVIDED BY MECHANICAL, INSTALL BY ELECTRICAL.
03. PROVIDE WITH DISCONNECT SWITCH.
04. PROVIDE & INSTALL 100% ECONOMISER PACKAGE AT RTU-1,2.
05. CONTRACTOR SHALL PROVIDE UNITS W/PRE-FABRICATED (14") ROOF CURB.
06. PROVIDE UNIT WITH MERV-13 FILTERS.
07. PROVIDE UNIT 7-DAY PROGRAMMABLE THERMOSTATS WITH NIGHT SET BACK CAPABILITIES.
08. PROVIDE UNITS WITH ANTICYCLE TIME DELAY AND HIGH AND LOW PRESSURE PROTECTION.
09. ADJUST O.A. DAMPERS AT RTU-1 AND RTU-2 TO CFM SCHEDULED.
10. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
11. OR APPROVED EQUAL EQUIPMENT - CARRIER, LENNOX, YORK,
12. THE CONTRACTOR MUST COORDINATE WITH THE VENDOR FOR THE RTU SELECTION WITH R-32 REFRIGERANT BEFORE PLACING THE ORDER.

AIR BALANCE SCHEDULE

EQUIPMENT TAG	SUPPLY AIR (CFM)	OUTDOOR AIR (CFM)	MAKE-UP AIR (CFM)	EXHAUST AIR (CFM)	RETURN AIR (CFM)	PRESSURE (CFM)
RTU-1	2,000	500	-	-	1,500	500
RTU-2	3,000	850	-	-	2,150	850
EF-1	-	-	-	80	-	-80
EF-2	-	-	-	150	-	-150
KEF-1				525		-525
KEF-2	-	-	-	450	-	-450
BUILDING TOTAL	5,000	1,350	0	1,205	3,650	145.00
* - INTERMITTENT FAN OPERATION					PRESSURE =	2.9%

MAKE-UP: A/C UNITS OUTSIDE AIR INTAKE	+1350
	+1350 CFM
EXHAUST: GENERAL EXHAUST	-1205
	-1205 CFM
BALANCE RESULTS:	
OUTSIDE AIR	+1350
EXHAUST	-1205
	+145 CFM

AIR CURTAIN SCHEDULE

TAG	CONDITION	QUANTITY	AREA SERVED	LENGTH (IN.)	CFM	HEATING MODE	ELECTRICAL DATA AMPS	ELECTRICAL DATA VOLTS/PH/HZ	MANUFACTURER	MODEL	NOTES
ACH-1	NEW	1	REFER TO PLAN	36	900	ELECTRIC	31.2	208/1/60	MARS	LPV236-1EBC-OB	1, 2
ACH-2	NEW	1	REFER TO PLAN	36	900	ELECTRIC	31.2	208/1/60	MARS	LPV236-1EBC-OB	1, 2

NOTES:
1. PROVIDE MANUFACTURER RECOMMENDED ACCESSORIES.

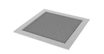
EXHAUST FAN SCHEDULE

TAG	CONDITION	QUANTITY	AREA SERVED	LOCATION	TYPE	CFM	E.S.P. (IN. WC)	DRIVE TYPE	AMPS	VOLTS/PH/HZ	SONES	WEIGHT(LBS)	MANUFACTURER	MODEL	NOTES
EF-1	NEW	1	REFER TO PLAN	CEILING	DIRECT	80	0.1	DIRECT	0.2	120/60/1	0.3	12	BROAN	QTXE080	1, 2, 3,4
EF-2	NEW	1	REFER TO PLAN	CEILING	DIRECT	150	0.1	DIRECT	0.5	120/60/1	1.4	13.1	BROAN	QTXE150	1, 2, 3,4

NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTION.
2. EXHAUST FANS SHALL HAVE BUILT-IN BACKDRAFT DAMPERS AND TERMINATE WITH GOOSENECK.
3. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
4. INTERLOCK WITH LIGHT SWITCH /OCCUPANCY SENSOR.

AIR DEVICE SCHEDULE

NOMENCLATURE: U-CFM / SIZE - B
U = USAGE (S = SUPPLY, R = RETURN, E = EXHAUST, T = TRANSFER)
CFM = AIR QUANITY; T = TYPE OF AIR DEVICE
SIZE = NECK SIZE OF AIR DEVICE; B = BLOW PATTERN
EXAMPLE: S1-150 / 6"Ø-4W

TYPE	USAGE	SERVING	NECK SIZE	PANEL/FACE SIZE	MATERIAL	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS	REFERENCE IMAGE
S1	SUPPLY	REFER TO FLOOR PLAN	SEE PLAN	24"X24" 12"X12"	STEEL	4 WAY AIR STEEL SUPPLY AIR DIFFUSER	TITUS	TMS	1,2,3,4,5,6,7	
S2	SUPPLY	REFER TO FLOOR PLAN	SEE PLAN	24"X24"	STEEL	PERFORATED CEILING DIFFUSER	TITUS	PAS	1,2,4,8,9	
S3	SUPPLY	REFER TO FLOOR PLAN	10"Ø	22.5"Ø	STEEL	ADJUSTABLE ROUND CEILING DIFFUSER, UNIFORM 360 DISCHARGE PATTERN	TITUS	TMRA-AA	1,2,3,4,6,7	
R1	RETURN	REFER TO FLOOR PLAN	SEE PLAN	24"X24"	ALUMINIUM	-	TITUS	50F	1,2,3,4,5,7	

NOTES:
1. PROVIDE SQUARE NECK TO ROUND ADAPTER AS REQUIRED. (FOR FLEX CONNECTION)
2. FRAME SHALL FIT LAY-IN CEILING MODULE.
3. MAXIMUM NC = 30
4. WHITE FINISH UNLESS OTHERWISE SPECIFIED.
5. GRILLES IN SALES, ORDERING, SEATING AND CORRIDORS TO BE A FLAT BLACK FACTORY FINISH.
6. PROVIDE FOAM GASKET SEAL.
7. COORDINATE FRAME TYPE WITH REFLECTED CEILING PLAN & ARCHITECT.
* OR APPROVED EQUAL

KITCHEN EXHAUST FAN SCHEDULE

TAG	CONDITION	QUANTITY	AREA SERVED	LOCATION	DRIVE TYPE	HOOD LENGTH	CFM	FAN RPM	E.S.P. (IN. WC)	ELECTRICAL DATA HP	ELECTRICAL DATA VOLTS/PH/HZ	INTERLOCK WITH	MANUFACTURER	MODEL	NOTES
KEF-1	NEW	1	SANDWICH STATION	ROOF	DIRECT	5'-3"	525	1265	0.5	1/3	115/1/60	HOOD CONTROL	CAPTIVE AIRE	DU33HFA	1 TO 9
KEF-2	NEW	1	BACK HOUSE OVEN	ROOF	DIRECT	4'-6"	450	1389	0.375	1/4	115/1/60	HOOD CONTROL	CAPTIVE AIRE	DU12HFA	1 TO 9

NOTES / ACCESSORIES:
1. INSTALL PER MANUFACTURER'S INSTRUCTION.
2. BIRDSCREEN.
3. WEATHER PROOF DISCONNECT SWITCH.
4. VARIABLE SPEED CONTROL
5. SPEED CONTROL SWITCH.
6. THERMAL OVERLOAD PROTECTION.
7. GRAVITY BACKDRAFT DAMPER.
8. ROOF CURB.
9. AMCA SEAL & UL CERTIFIED.

HOODS SCHEDULE

TAG	CONDITION	QUANTITY	HOOD LENGTH (FEET-INCH)	COOKING TEMPRATURE (DEG F°)	EXHAUST CFM	EXHAUST COOLER (INCH)	EXHAUST SP (W.G.)	SERVICE	CONSTRUCTION	WEIGHT (LBS)	MANUFACTURER	MODEL
HOOD-1	NEW	1	5'-3"	700	525	10"	0.056	SANDWICH STATION	430 STAINLESS STEEL	178	CAPTIVE AIRE	3624 VBH
HOOD-2	NEW	1	4'-6"	700	450	10"	0.051	BACK HOUSE OVEN	430 STAINLESS STEEL	243	CAPTIVE AIRE	6624 VHB

VENTILATION SCHEDULE - 2012 INTERNATIONAL MECHANICAL CODE

NO.	ZONE	NAME	OCCUPANCY CLASSIFICATION	FLOOR AREA (S.F.)	OCCUPANTS PER 1000 SQ.FT.	OCCUPANTS (ACTUAL)	REQUIRED OUTSIDE AIR VENTILATION CFM/ PERSON	REQUIRED OUTSIDE AIR VENTILATION CFM/ SQ.FT.	REQUIRED OUTSIDE AIR VENTILATION TOTAL O.A.	REQUIRED OUTSIDE AIR VENTILATION EXHAUST CFM	ACTUAL ROOM VENTILATION TOTAL SUPPLY CFM	ACTUAL ROOM VENTILATION TOTAL O.A.	ACTUAL ROOM VENTILATION EXHAUST CFM	ACTUAL ROOM VENTILATION RETURN	EQUIPMENT
1	1	DINING ROOM	DINING ROOM	550	70	12	7.5	0.18	189	-	2000	500	0	1500	RTU-1
2	2	RESTROOM 1	BATHROOMS / TOILETS-PRIVATE	50	-	0	-	-	0	80	60		80		RTU-2,EF-1
3	2	RESTROOM 2	BATHROOMS / TOILETS-PRIVATE	50	-	0	-	-	0	80	80		150		RTU-2,EF-2
4	2	KITCHEN	KITCHEN	840	-	3	-	-	0	-	2390	850	0	2150	RTU-2
5	2	OFFICE	OFFICE	30	5	1	5	0.06	7	-	70		0		RTU-2
6	2	BACK OF HOUSE	CORRIDOR	320	0	0	0	0.06	19	0	400		0		RTU-2
				1840		16			215	160	5000	1350	230	3650	-

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DUNKIN'

CIVIL ENGINEER

STRUCTURAL ENGINEER

LANDSCAPE COMPANY

MEP ENGINEER

DEVELOPER

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EXP: 07/31/2026 SIGNED: 04/11/2025

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DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

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MECHANICAL SCHEDULES

SHEET NO.
M5

Kolbrook Job No. 1502.236 | Consultant Job No. -

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HOOD CONTROL SEQUENCE OF OPERATIONS

MANUAL CONTROL:
· TO TURN ON THE HOOD SYSTEM, PUSH THE FAN AND LIGHTS BUTTONS ON THE TOUCH SCREEN USER INTERFACE. THE FANS AND LIGHTS WILL TURN ON AND THE INDICATING LIGHTS ADJACENT TO THE BUTTONS WILL ILLUMINATE INDICATING THE FANS AND LIGHTS ARE ON.

· TO TURN OFF THE HOOD SYSTEM, PUSH THE FAN AND LIGHTS BUTTONS ON THE TOUCH SCREEN USER INTERFACE. THE FANS AND LIGHTS WILL TURN OFF AND THE INDICATING LIGHTS ADJACENT TO THE BUTTONS WILL GO OUT INDICATING THE FANS AND LIGHTS ARE OFF.

· THE HOOD WILL REMAIN ON BASED ON DIFFERENTIAL TEMPERATURE BETWEEN THE ROOM THERMOSTAT AND THE HOOD TEMPERATURE PROBE. ONCE THE EQUIPMENT COOLS DOWN, THE HOOD WILL SYSTEM WILL TURN OFF AUTOMATICALLY.

AUTOMATIC CONTROL:
· THE HOOD SYSTEM WILL TURN ON AUTOMATICALLY ONCE THE TEMPERATURE WITHIN THE HOOD SYSTEM REACHES A SET TEMPERATURE. THE INDICATOR LIGHT ADJACENT TO THE FANS BUTTON ON THE TOUCH SCREEN USER INTERFACE WILL ILLUMINATE. THE LIGHTS WILL NEED TO BE TURNS ON MANUALLY.

· THE HOOD SYSTEM WILL TURN OFF AUTOMATICALLY AS DESCRIBED ABOVE.

GENERAL:
· THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH CAPTIVE AIRE.

· THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR ON THE REQUIRED WIRING OF THE OF THE HOOD CONTROLS PER THE CAPTIVE AIRE DRAWINGS.

GENERAL NOTES

A. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTOR.

B. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTOR.

C. ALL ASSOCIATED HANGER MATERIALS BY INSTALLING CONTRACTOR.

D. ANY LIGHTS SHOWN INSTALLED BY THE MANUFACTURER, AND FACTORY PREWIRED PER THE PLANS. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTOR.

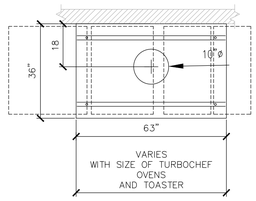
E. SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.

F. INSTALLING CONTRACTOR ASSUMES ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

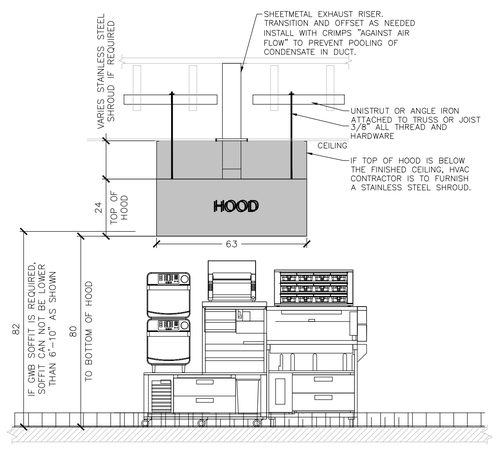
G. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

H. NOMINAL HOOD DIMENSIONS AS SHOWN ON DRAWINGS.

I. THE HOODS INDICATED SHALL BE CAPTIVE-AIRE MODEL VHB OR APPROVED EQUAL. THE HOOD SHALL BE SINGLE WALL TYPE HOOD WITH NO BUILT-IN MAKE-UP AIR CAPABILITIES. THE HOOD COMPONENTS SHALL BE FABRICATED OF TYPE 304 STAINLESS STEEL WITH A #3 OR #4 POLISH, ON ALL EXPOSED SURFACES. THE HOOD SHALL BE PROVIDED WITH HANGING ANGLES ON EACH END OF THE HOOD. NOMINAL HOOD DIMENSIONS SHALL BE AS SHOWN ON DRAWINGS.

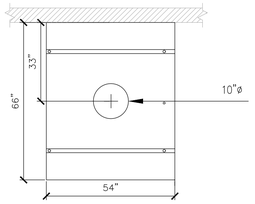


PLAN VIEW

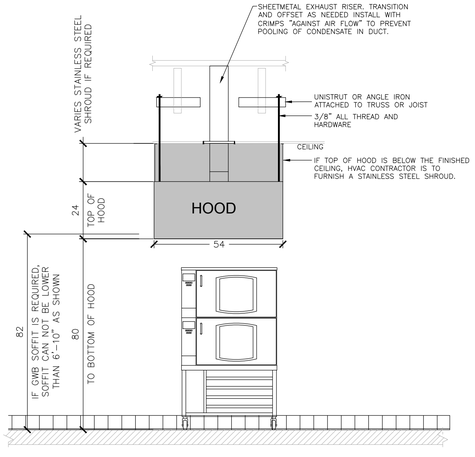


ELEVATION VIEW

1	TYPICAL HOOD 1 - ELEVATION AND PLAN
NONE	



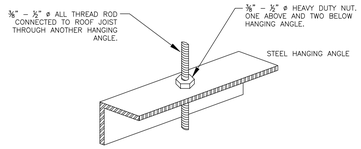
PLAN VIEW



ELEVATION VIEW

2	TYPICAL HOOD 2 - ELEVATION AND PLAN
NONE	

DESIGN PROFESSIONAL TO DESIGN HOOD FOR EVERY LOCATION PER CRITERIA SHOWN



3	HANGING ANGLE DETAIL
NONE	

HOODS SHALL BE
BUILT IN COMPLIANCE WITH

NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

EXHAUST FAN AND GRILL WITH METAL CEILING TILES OVER THE OVENS AND TOASTERS IS THE MINIMUM REQUIREMENT PER DBI STANDARDS. THE ARCHITECT / ENGINEER IS RESPONSIBLE IN DETERMINING IF AN ACTUAL HOOD IS THE MINIMUM REQUIRED PER LOCAL JURISDICTION.

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CIVIL ENGINEER

STRUCTURAL ENGINEER

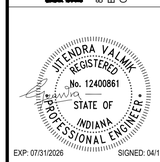
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HOODS DRAWINGS

SHEET NO.

H1

Kolbrook Job No.	1502.243	Consultant Job No.	-

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HOOD INFORMATION – JOB#5341511

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM SIZING					HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	SIA	CFM	VEL	SP		END TO END	REAR
1	Sandwich Station	3624 VHB	CAPTIVEAIRE	5' 3"	700 DEG	II	N/A	100	525			4"	10"	525	963	-0.0256"	430 SS 1005	ALONE	ALONE
2	Back House Oven	6624 VHB	CAPTIVEAIRE	4' 6"	700 DEG	II	N/A	100	450			4"	10"	450	825	-0.035"	430 SS 1005	ALONE	ALONE

HOOD INFORMATION

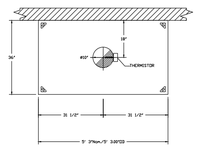
HOOD NO	TAG	FIL TERS					LIGHTS				UTILITY CARRIED TO:				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	WIDTH	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM: TYPE	FIRE SYSTEM: SIZE	ELECTRICAL: MODEL #	SWITCHES: QUANTITY		
1	Sandwich Station							0									NO	178 LBS
2	Back House Oven							0									NO	243 LBS

HOOD OPTIONS

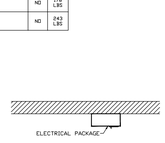
HOOD NO	TAG	OPTION	
1	Sandwich Station	FIELD WRAPPER 20.00" HIGH	FRONT, LEFT, RIGHT.
		RISER SENSOR INSTALL, 60% PLEN.	
2	Back House Oven	FIELD WRAPPER 20.00" HIGH	FRONT, LEFT, RIGHT.
		RISER SENSOR INSTALL, 60% PLEN.	

VERIFY CEILING HEIGHT

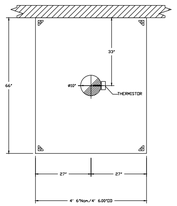
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS



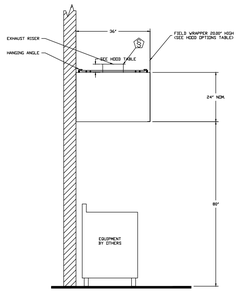
PLAN VIEW – Hood #1 (Sandwich Station)
4' 1.00" LONG 3624VHB



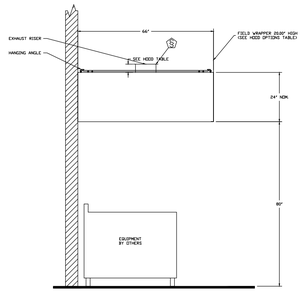
ELECTRICIAN NOTE:
ELECTRICIAN TO PROVIDE AND INSTALL ALL CONNECTIONS AND INTERCONNECTIONS AS REQUIRED BETWEEN HOOD ELECTRICAL PACKAGE AND HOOD, FANS, AND BREAKER PANEL. SEE INSTALLATION DIAGRAM FOR DETAILS.



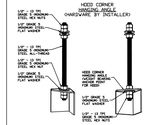
PLAN VIEW – Hood #2 (Back House Oven)
6' 6.00" LONG 6624VHB



SECTION VIEW – MODEL 3624VHB



SECTION VIEW – MODEL 6624VHB



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS, MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

EXHAUST FAN INFORMATION – JOB#5341511

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	SANDWICH EF	1	DU33HFA	CAPTIVEAIRE	525	0.500	1265	TEAO-ECM	0.330	0.1240	1	115	4.3	260 FPM	67	11
2	OVEN EF	1	DU26HFA	CAPTIVEAIRE	450	0.375	1389	TEAO-ECM	0.250	0.1160	1	115	2.9	319 FPM	54	7.8

FAN OPTIONS

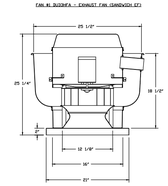
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	SANDWICH EF	1	1 15-RSD DAMPER
		1	SCR-12 RSD SCREEN
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	OVEN EF	1	SCR-12 RSD SCREEN
		1	1 12-RSD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CW ROTATION
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	SANDWICH EF		YES					
2	OVEN EF		YES					

CURB ASSEMBLIES

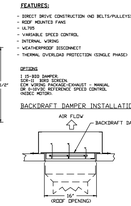
NO	QTY. FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	SANDWICH EF	27 LBS	CURB	19.500"W X 19.500"L X 20.000"H ALONG LENGTH, RIGHT.
2	# 2	OVEN EF	20 LBS	CURB	17.500"W X 17.500"L X 24.000"H ALONG LENGTH, RIGHT.

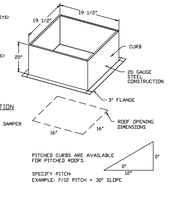


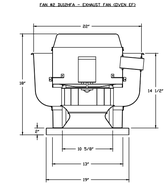
FEATURES:
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- ULTRA
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

OPTIONS
1 15-RSD DAMPER
SCR-1 RSD SCREEN
ECM WIRING PACKAGE-EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR)

BACKDRAFT DAMPER INSTALLATION



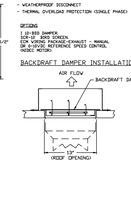


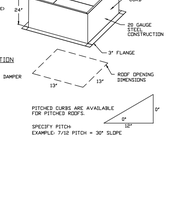


FEATURES:
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- ULTRA
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

OPTIONS
1 12-RSD DAMPER
SCR-1 RSD SCREEN
ECM WIRING PACKAGE-EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR)

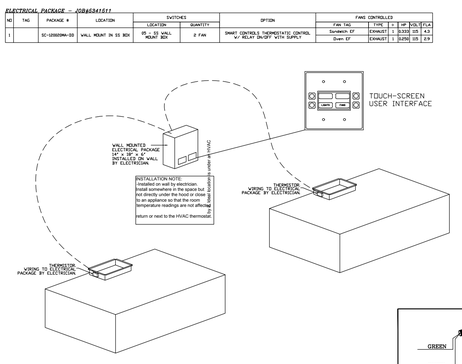
BACKDRAFT DAMPER INSTALLATION

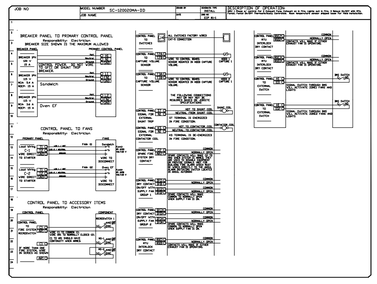


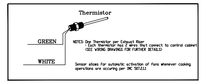


ELECTRICAL PACKAGE – JOB#5341511

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY			TYPE	#	HP	VOLTS/PH
1		SC-12500DMA-SS	WALL MOUNT IN SS BOX	65 - 93 WALL MOUNT BOX	2 FAN	SMART CONTROLS THERMOSTATIC CONTROL w/ RELAY ON/OFF WITH SUPPLY	Sandwich EF	EXHAUST	1	0.330	115 / 1
							Oven EF	EXHAUST	1	0.250	115 / 1



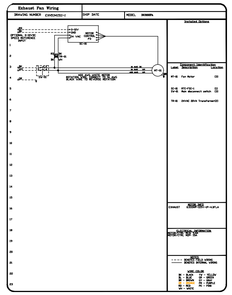




ELECTRICIAN NOTE:
ELECTRICIAN TO PROVIDE AND INSTALL ALL CONNECTIONS AND INTERCONNECTIONS AS REQUIRED BETWEEN HOOD ELECTRICAL PACKAGE AND HOODS, FANS, AND BREAKER PANEL. SEE WIRING DIAGRAM FOR DETAILS.

ELECTRICIAN NOTES :-

All Hood/Fan/CMS/UDS/PCU electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical package. Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician. Light bulbs for kitchen hoods to be provided and installed by electrician.



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NEXT GEN
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CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
ISSUE FOR PERMIT	04/11/2025

DRAWN BY: KR

CHECKED BY:

SHEET TITLE.

HOODS DRAWINGS

SHEET NO.

H2

Kolbrook Job No.	1502.243	Consultant Job No.	-

SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS

ELECTRICAL LEGEND

POWER

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- ABOVE COUNTER DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- DUPLEX GFCI RECEPTACLE
- ABOVE COUNTER DUPLEX GFCI RECEPTACLE
- FLOOR MOUNT RECEPTACLE
- SPECIAL RECEPTACLE
- DUPLEX RECEPTACLE OUTLET-SPLIT WIRED
- PANEL BOARD
- (E) [E] E-CONNECTION - CEILING / WALL
- DISTRIBUTION PANEL

LIGHTING

- $ SWITCH
- ^{3} 3-WAY SWITCH
- ^{4} 4-WAY SWITCH
- ^{M} MOTORIZED SWITCH
- ^{D} DIMMER SWITCH
- ^{VS} VACANCY SENSOR AND SWITCH (WALL MOUNT)
- ^{OS} OCCUPANCY SENSOR AND SWITCH (WALL MOUNT)
- $^{OS/D}$ OCCUPANCY SENSOR AND DIMMER SWITCH (WALL MOUNT)
- OS OCCUPANCY SENSOR (CEILING)
- VS VACANCY SENSOR (CEILING)
- BATTERY EMERGENCY LIGHT (WALL MOUNT)
- EXIT SIGN
- X UPPERCASE LETTER DENOTES FIXTURE TAG
- x LOWERCASE LETTER DENOTES SWITCH DESIGNATION

LOW VOLTAGE

- VOICE/DATA OUTLET
- VOICE (TELEPHONE)
- DATA OUTLET

ANNOTATION

- X KEY NOTE TAG
- X KEY NOTE TAG
- X REVISION NOTE TAG
- X SCCR VALUE

MISCELLANEOUS

- J JUNCTION BOX
- J WALL MOUNTED JUNCTION BOX
- J FLOOR MOUNTED JUNCTION BOX
- PB PULL BOX
- FLEXIBLE CONDUIT WHIP - MAX 6'-0" IN LENGTH
- M METER
- CIRCUIT BREAKER
- DISCONNECT SWITCH
- FUSED SWITCH. "AS" INDICATES AMPERE SWITCH RATING, "AF" INDICATES AMPERE FUSE RATING, NUMBER OF POLES AS INDICATED.
- HOME RUN
- ARC WIRE

FIRE ALARM

- V FIRE ALARM VISUAL ANNUNCIATION DEVICE (STROBE)
- AV FIRE ALARM AUDIBLE / VISUAL ANNUNCIATION DEVICE (HORN / STROBE)
- SD FIRE ALARM STAND ALONE SMOKE DETECTOR WITH 90MINUTES BATTERY BACKUP
- DD FIRE ALARM DUCT DETECTOR
- S FIRE ALARM HEAT PULL STATION
- FARM FIRE ALARM ADDRESSABLE RELAY MODULE
- FACP FIRE ALARM CONTROL PANEL
- DDS FIRE ALARM DUCT DETECTOR TEST STATION (KEYED, AUDIBLE/VISUAL)
- CO FIRE ALARM CO DETECTOR WITH 90 MINUTES BATTERY BACKUP
- CS FIRE ALARM CARBON MONOXIDE AND SMOKE DETECTOR COMBO WITH 90 MINUTES BATTERY BACKUP
- MM FIRE ALARM MONITOR MODULE
- DL CELLING MOUNTED DIGITAL PHOTOCELL / DAYLIGHT SENSOR
- CEILING MOUNTED HEAT DETECTOR
- EMERGENCY TELEPHONE/FIRE STATION

ELECTRICAL ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE RATING
AIC	AMPERE INTERRUPTING CAPACITY
AM	AMMETER
AMP, A	AMPERES
AS	AMPERE SWITCH RATING
AT	AMPERE TRIP RATING OR BREAKER
C.	CONDUIT
CKT	CIRCUIT
CP	CONTROL PANEL
D	DEDICATED
DISC	DISCONNECT
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY LIGHT WITH 90MIN BATTERY BACKUP
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND, GRD, G	GROUND
KCMIL	THOUSAND CIRCULAR MIL(S)
KVA	KILOVOLT AMPERES
KW	KILOWATTS
MC	MECHANICAL CONTRACTOR
MT	MOUNT
(N)	NEW
P	POLE
PH,	PHASE
PC	PLUMBING CONTRACTOR
SCCR	SHORT CIRCUIT CURRENT RATING
SM	SURFACE MOUNT
SW	SWITCH
TC	TIMECLOCK
TGB	TELECOMMUNICATIONS GROUND BUS
TTC	TELEPHONE TERMINAL CABINET
TYP.	TYPICAL
V	VOLTS
VA	VOLT AMPS
W	WALL MOUNT AT 48" A.F.F.
WP	WEATHERPROOF
WR	WEATHER RESISTANCE

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

1. INDIANA BUILDING CODE, 2014 EDITION (IBC 2012 EDITION, IST PRINTING)
2. INDIANA ELECTRICAL CODE 2009 EDITION (NFPA 70-2008)
3. PLUMBING CODE, 2012 EDITION (IPC 2006 EDITION, 2ND PRINTING).
4. INDIANA MECHANICAL CODE 2014 EDITION (IMC, 2012 EDITION, 1ST PRINTING) .
5. INDIANA FIRE CODE, 2014 EDITION (IFC 2012 EDITION, 1ST PRINTING)

ELECTRICAL CIRCUIT TAG

X-X-X
- FIXTURE/EQUIPMENT NUMBER ON CIRCUIT
- SWITCH NUMBER IF OPERATED BY SWITCH
- PANEL NAME - CIRCUIT NUMBER ON PANEL SCHEDULE

LINEWEIGHT LEGEND

- NEW
- EXISTING
- DEMO

ELECTRICAL SHEET INDEX

SR.NO.	SHEET NO.	SHEET NAME	SCALE
1	E1	ELECTRICAL GENERAL NOTES AND SYMBOLS	N.T.S.
2	E2	ELECTRICAL SPECIFICATION	1/4" = 1'-0"
3	E3	ELECTRICAL LIGHTING PLAN	1/4" = 1'-0"
4	E4	ELECTRICAL POWER PLAN	1/4" = 1'-0"
5	E5	ELECTRICAL SCHEDULES AND ONE LINE DIAGRAM	N.T.S

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
2. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
3. THE CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. THE CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT.
4. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
5. COORDINATE WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
6. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS. ALL WIRING SHALL BE ENCLOSED IN CONDUIT OR SURFACE METAL RACEWAY.
7. CONDUIT SHALL BE USED IN CONCEALED SPACES ONLY EXCEPT IN MECHANICAL AND ELECTRICAL SPACES. ALL OTHER SPACES SHALL USE SURFACE METAL RACEWAY. CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC.
8. FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
9. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL PLANS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK/CASEWORK DETAILS.
10. REMOVE ALL CABLING, CONDUIT AND DEVICES IN THE BUILDING THAT ARE NOT BEING REUSED. MAKE SUFFICIENT ALLOWANCE IN PRICING. NO CHANGE ORDERS WILL BE APPROVED FOR REMOVAL OF THESE ITEMS.
11. CIRCUIT NUMBERS SHOWN ARE FOR CLARITY ONLY AND DO NOT REPRESENT ACTUAL CIRCUIT BREAKER NUMBERS IN NEW PANELS. FIELD VERIFY ALL CONDITIONS. BRING ALL EXISTING PANEL DIRECTORIES UP TO DATE FOR ALL CIRCUITS, INCLUDING SPARES. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORIES.
12. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL APPLICABLE TRADES.
13. PROVIDE COVER PLATES FOR ALL JUNCTION BOXES, USED AND UNUSED, NEW OR EXISTING, FOR THIS WORK.
14. COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND ALL APPLICABLE TRADES AND EXISTING CONDITIONS PRIOR TO INSTALLING CONDUITS, LIGHT FIXTURES, VACANCY SENSORS, PANELS, CONDUIT, WIRING DEVICES.
15. CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED AND CONDUITS SHALL BE ROUTED ACCORDINGLY.
16. PERFORM ALL CUTTING, CORING, AND PATCHING REQUIRED TO COMPLETE THE WORK. PERFORM ALL DEMOLITION AND REMOVAL OF DEBRIS RESULTING THEREFROM AND REQUIRED TO COMPLETE THE WORK. PATCH AND PAINT EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS AND TEXTURE USING EXPERIENCED INSTALLERS. REFER TO SPECIFICATIONS.
17. ALL MEASUREMENTS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE ELECTRICAL CONTRACTOR PRIOR TO BID.
18. LIGHTING AND RECEPTACLES SHALL BE INSTALLED AND WIRED AS PER NATIONAL ELECTRICAL CODE (NEC) AND OSHA REQUIREMENTS. PROVIDE GROUND FAULT INTERRUPTER REQUIRED ON ALL RECEPTACLES AND EQUIPMENT REQUIRED BY CODE. LAMPS, LIGHTING FIXTURE HANGING SUPPORTS, BASES, PADS, RODS, UNISTRUTS, ANGLE CLAMPS, AND OTHER ACCESSORIES FOR ALL FIXTURES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, INCLUDING FIXTURES AND EQUIPMENT AS REQUIRED BY CODE.
19. THE LOCATION OF ALL EQUIPMENT IS SHOWN DIAGRAMMATICALLY. THE EXACT LOCATION SHALL BE DETERMINED BY ACTUAL FIELD CONDITIONS. IF CONFLICT OCCURS WITH THE PLACEMENT OF EQUIPMENT SHOWN ON DRAWINGS AND EXISTING STRUCTURES AND APPURTENANCES, CONTRACTOR SHALL COORDINATE WITH DESIGN ENGINEER BEFORE FINAL INSTALLATION. CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY COORDINATED.
20. THE CONTRACTOR SHALL FURNISH, INSTALL, AND CONNECT ALL EQUIPMENT IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC). AFTER EACH WORKDAY, CONTRACTOR SHALL CLEAN ALL WORK AREAS AND ALL DEBRIS.
21. ALL ELECTRICAL WORK SUPPLIED BY THE CONTRACTOR SHALL BE IN COMPLIANCE WITH THE CITY OF NATIONAL ELECTRICAL CODE (NEC) AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAWING SUBMITTALS TO THE ELECTRICAL INSPECTIONAL SERVICES IN COMPLIANCE WITH NEC.
22. FURNISH AND INSTALL ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND APPURTENANCES FOR A COMPLETE ELECTRICAL SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED, INSTALLED, OR WIRED ON THE ELECTRICAL DRAWINGS, THIS CONTRACTOR SHALL BE RESPONSIBLE COMPLETELY FOR A COMPLETE AND OPERATING SYSTEM FOR THIS ITEM.
23. ANY MENTION OF A SPECIFIC VOLTAGE ON THE ELECTRICAL DRAWINGS SHALL NOT RELIEVE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY THE VOLTAGE PRIOR TO PURCHASING OR ROUGH-IN WORK. THE CONTRACTOR SHALL SUBMIT A VOLTAGE COORDINATION FORM TO ALL PARTIES FURNISHING EQUIPMENT FOR VERIFICATION.
24. IDENTIFY ALL RECEPTACLES AND SWITCHES AS FOLLOWS:

A. RECEPTACLES: IDENTIFY PANEL BOARD AND CIRCUIT NUMBER FROM WHICH SERVED. (I.E.: LP-2:7) USE HOT, STAMPED OR ENGRAVED MACHINE PRINTING WITH BLACK-FILLED LETTERING ON FACE OF PLATE, AND DURABLE WIRE MARKERS OR TAGS INSIDE DU LET BOXES.

B. SWITCHES: WHERE THREE OR MORE SWITCHES ARE GANGED, AND ELSEWHERE WHERE INDICATED, IDENTIFY EACH SWITCH WITH APPROVED LEGEND ENGRAVED WITH BLACK-FILLED LETTERING ON FACE OF WALL PLATE.

25. PENETRATIONS OF FIRE RATED WALL AND FLOOR ASSEMBLIES SHALL BE PROTECTED WITH AN APPROVED THROUGH-PENETRATION SYSTEM AND SHALL BE A TESTED ASSEMBLY IN ACCORDANCE WITH ASTM E119. ALL CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE FIRE SEALED PER INTERNATIONAL BUILDING CODE (IBC). SEALANT RATING SHALL MEET OR EXCEED THE FIRE RATING OF FLOOR AND WALL CONSTRUCTION PER LOCAL CODE.
26. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL EQUIPMENT OR CONNECTION WITHIN FIVE FEET FROM THAT SHOWN ON THE DRAWINGS AT NO EXTRA COST TO THE OWNER .
27. THIS CONTRACTOR SHALL CHECK CAREFULLY AL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO ENSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. THE CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT.
28. ALL CONDUIT CONNECTIONS TO MOTORS SHALL BE SEAL TIGHT FLEXIBLE CONDUIT; SAME CONDUIT SIZE AS CIRCUIT CONDUIT FROM MOTOR STARTER OR VARIABLE FREQUENCY DRIVE TO MOTOR.
29. ALL NEW COMBINATION MOTOR STARTERS AND/OR DISCONNECT MEANS SHALL BE READILY ACCESSIBLE AS DEFINED IN THE INTERNATION BUILDING CODE (IBC).
30. ALL BRANCH CIRCUIT FEEDERS SHALL BE PROVIDED WITH SEPARATE GROUNDING CONDUCTORS SIZED PER ARTICLE 250 OF NATIONAL ELECTRICAL CODE (NEC).
31. ALL RECEPTACLES WITHIN 6' FROM SINKS AND WHERE SPECIFICALLY INDICATED ON DRAWINGS, SHALL BE GFCI INDIVIDUALLY PROTECTED.
32. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
33. ALL EXISTING PAINTED SURFACES DAMAGED OR PATCHED AS PART OF THIS CONTRACT SHALL BE PAINTED TO MATCH EXISTING ADJACENT COLOR, TEXTURE, AND FINISH. EXISTING PAINT COLOR, TEXTURE, AND FINISH SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO CONSTRUCTION.
34. ALL OUTLET BOXES ON OPPOSITE SIDES OF WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES WITH WALL STUD BETWEEN BOXES. ALL BOXES SHALL BE SEALED AIRTIGHT WITH FIRE STOPPING PUTTY PADS
35. PROVIDE DEDICATED NEUTRAL IN ALL 120V, 1PH CIRCUITS AS PER SECTION 26 27 27.
36. BRANCH CIRCUIT CABLE SIZE SHALL BE ADJUSTED BASED ON THE CONDUCTOR LENGTH. FOR 120/240V CABLING FROM PANEL TO ELECTRICAL LOAD SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:

A. FOR 120V 20A CIRCUIT: IF LESS THAN 75 FEET, USE #12 AWG, #12 GROUND, 3/4"C (CU) MINIMUM, FROM 75 TO 200 FEET, USE #10 AWG #10 GROUND, 3/4"C (CU) MINIMUM.

B. FOR 240V 45A CIRCUIT: IF LESS THAN 75 FEET, USE #8 AWG #10 GROUND, 1" C (CU) MINIMUM, FROM 75 TO 200 FEET, USE #6 AWG #10 GROUND, 1-1/4" C (CU) MINIMUM.

37. E.C. SHALL COORDINATE WITH G.C. FOR ACTUAL ELECTRICAL REQUIREMENTS PRIOR TO PROCUREMENT.
38. ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION INDOORS. OUTDOOR AND UNDERGROUND FEEDERS SHALL USE TYPE XHHW INSULATION. ALL GROUND CONDUCTORS SHALL BE INSULATED COPPER. ALL CONDUCTORS SHALL BE SELECTED PER NEC 110.14(C)(1).
39. THE UNDERGROUND AND GROUND CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMIAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBROAD OR OTHER POINT OF ORIGINATION.
40. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUND CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.WHERE THE BUILDING PROPERTY IS LOCATED IN A FLOOD ZONE AREA, ALL EQUIPMENT SHALL BE INSTALLED ONE FOOT ABOVE THE FLOOD BASE ELEVATION.
41. EC SHALL FIELD VERIFY EXISTING SERVICE PRIOR TO BIDDING AND COORDINATE WITH UTILITY AND LANDLORD PER ACTUAL REQUIREMENTS TO MEET NEW DEMAND LOAD AND REQUIREMENTS PER LOCAL CODES.

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CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
ISSUED FOR PERMIT	04/11/2025

DRAWN BY:

CHECKED BY:

SHEET TITLE.

ELECTRICAL GENERAL NOTES AND SYMBOLS

SHEET NO.

E1

Kolbrook Job No.	1502.236	Consultant Job No.	-

DIVISION 16 - ELECTRICAL SPECIFICATION

SECTION 16100

ELECTRICAL SPECIAL CONDITIONS

1. GENERAL

A. APPLICABLE PROVISIONS OF AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AND DIVISION 1 GENERAL CONDITIONS GOVERN WORK UNDER THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.

B. APPLICABLE PROVISIONS OF THIS SECTION GOVERN WORK UNDER ALL OTHER SECTIONS OF DIVISION 16. WORK COVERED BY THIS SECTION SHALL CONSIST OF PROVIDING ALL MATERIAL, LABOR, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE, TESTED AND ADJUSTABLE ELECTRICAL INSTALLATION READY FOR OPERATION AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.

C. THE TERM CONTRACTOR AS USED IN THIS SECTION SHALL MEAN ANY CONTRACTOR OR SUBCONTRACTOR WHO HAS CONTRACTED TO PERFORM WORK INCLUDED IN AND DEFINED BY THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.

D. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION. ALL MATERIALS AND EQUIPMENT SHALL BE COMMERCIAL GRADE AND SHALL CARRY A U.L. LABEL.

D. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING COMPONENTS THEREOF SHALL BE NEW AND SUCH AS APPEARS ON THE UNDERWRITER'S LABORATORY LIST OF APPROVED ITEMS AND SHALL MEET THE REQUIREMENTS OF RECOGNIZED STANDARDS. EQUIPMENT SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND OTHER APPLICABLE CODES.

2. EXISTING CONDITIONS

A. THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED TO OUR OFFICE AT THE TIME OF DESIGN. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, SECONDARY FEEDER LENGTH, TELEPHONE SERVICE LOCATION, ETC... AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BID. FAILURE TO DO SO MAY CONSTITUTE THAT THE CONTRACTOR PROVIDE ANY AND ALL ADDITIONAL EQUIPMENT, LABOR, ETC... TO MEET THE INTENDED DESIGN PARAMETERS.

B. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS.

3. CONTRACTOR'S RESPONSIBILITY

A. PRIOR TO SUBMITTING HIS BID, CONTRACTOR SHALL CAREFULLY EXAMINE THESE CONSTRUCTION DOCUMENTS, THE DEVELOPER'S EXHIBITS, AND THE SITE, TO INQUIRE FULLY INTO DIFFICULTIES AND COSTS OF WORK, AND TO DETERMINE THE SCOPE AND CHARACTER OF WORK TO BE DONE CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS TO LOCATE AND/OR EXTEND ALL UTILITIES INCLUDING LIGHTING PANELS, POWER PANELS, ELECTRICAL SERVICE, PHONE SERVICE AND/OR MODIFY EQUIPMENT TO MEET THE INTENT OF THE CONTRACT DOCUMENTS. THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER SHALL NOT BE RESPONSIBLE FOR FAILURE OF THE CONTRACTOR TO DETERMINE DIFFICULTIES AND COSTS IN THE PROJECT OR FOR HIS OVERLOOKING OF THE REQUIREMENTS.

B. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THE PLANS AND SPECIFICATIONS, OR IF THERE ARE ANY REQUIREMENTS WHICH ARE AMBIGUOUS IN THE CONTRACTOR'S OPINION, HE SHOULD CALL THIS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATIONS OF THE ARCHITECT AND ENGINEER.

C. CONTRACTOR SHALL SCHEDULE HIS WORK IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK. ALL WORK SHALL BE SCHEDULED TO MAINTAIN SERVICE TO ALL REQUIRED AREAS DURING THE COURSE OF THE CONSTRUCTION EXCEPT FOR SHORT TERM PLANNED SHUTDOWNS, ANY OF WHICH SHALL BE PRE-SCHEDULED WITH THE OWNERS AGENT AND THE LANDLORD.

4. WORKMANSHIP AND GUARANTEE

A. IN ENTERING INTO A CONTRACT COVERING THIS WORK, THE CONTRACTOR ACCEPTS THE SPECIFICATIONS, AND GUARANTEES THAT THE WORK WILL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR FURTHER GUARANTEES THAT THE WORKMANSHIP AND MATERIAL WILL BE OF THE BEST PROCURABLE AND THAT NONE BUT EXPERIENCED WORKMEN EXPERIENCED IN EACH PARTICULAR CLASS OF WORK WILL BE EMPLOYED. CONTRACTOR FURTHER GUARANTEES TO REPLACE AND MAKE GOOD AT HIS OWN EXPENSE ANY DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL WHICH MAY DEVELOP WITHIN ONE (1) YEAR AFTER FINAL PAYMENT AND ACCEPTANCE BY THE ARCHITECT.

5. CODES AND STANDARDS

A. CONTRACTOR WILL COMPLY IN ALL RESPECTS WITH THE ADOPTED BUILDING CODES, APPLICABLE LAWS, ORDINANCES, AND REGULATIONS AS MAY APPLY ACCORDING TO THE RULING OF THE CONTROLLING PUBLIC OFFICIAL SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE LAWS, ORDINANCES AND REGULATIONS, OR WHICH DOES NOT RECEIVE THE APPROVAL OF THE CONTROLLING PUBLIC OFFICIAL, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES. ALL ELECTRICAL EQUIPMENT SHALL SHALL BEAR THE UNDERWRITER'S LABORATORY LABEL.

6. FEES ON PERMITS

A. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAKING PAYMENT FOR ALL FEES, PERMITS AND INSPECTIONS RELATING TO HIS WORK.

7. CONTRACT DRAWINGS

A. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND INTENT OF THE DESIGN AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS AND THE WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED, NOR IS IT IMPLIED THAT ALL CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE SYSTEMS OR BUILDING COMPONENTS HAVE BEEN INDICATED. THE CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AFFECTING THE WORK AND ARRANGE HIS WORK ACCORDINGLY, PROVIDING SUCH FITTINGS, OFFSETS, ACCESSORIES AND DEVICES AS MAY BE REQUIRED. THE DRAWINGS AND SPECIFICATIONS ARE MUTUALLY COMPLEMENTARY, AND ANY WORK REQUIRED BY ONE BUT NOT BY THE OTHER SHALL BE PERFORMED BY BOTH. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND SERVICES REQUIRED FOR A COMPLETE AND WORKING PROJECT AT NO ADDITIONAL COST. EVEN THOUGH EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN.

B. CONTRACTOR SHALL NOT SCALE FROM THE DRAWINGS BUT SHALL FOLLOW THE ARCHITECTURAL DRAWINGS OR EXISTING BUILDING CONDITIONS WHERE APPLICABLE, IN ESTABLISHING DIMENSIONS AND LINES OF RUN, SINCE DIMENSIONS ON THE FINAL ARCHITECTURAL DRAWINGS OR AT THE SITE MAY NOT COINCIDE WITH THOSE SHOWN ON THE ELECTRICAL DRAWINGS. THE CONTRACTORS SHALL VERIFY WITH THE DIMENSIONED ARCHITECTURAL DRAWINGS OR THE SITE CONDITIONS THE EXACT MATERIAL QUANTITIES AND LENGTHS NECESSARY.

C. SIGNIFICANT DEVIATIONS OR CHANGES FROM THE DRAWINGS WHICH ARE REQUIRED TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS MUST BE REVIEWED WITH THE ARCHITECT AND APPROVED BEFORE PROCEEDING.

8. SHOP DRAWINGS

A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FOUR (4) COPIES MINIMUM, FOR ALL MANUFACTURED PRODUCTS. EACH SHOP DRAWING SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO ASSURE THAT ALL DIMENSIONS, QUANTITIES, CONNECTIONS, CAPACITATES AND ACCESSORIES SHOWN ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MARKED OR STAMPED TO CONFIRM THAT SUCH REVIEW WAS MADE AND COMPLIANCE WAS CONFIRMED.

B. APPROVAL OF SHOP DRAWINGS BY THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER, WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH ALL TERMS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PERFORMANCE OF ALL EQUIPMENT PURCHASED, FOR PROPER FIT, AND OTHER DIMENSIONAL REQUIREMENTS

9. RECORD DRAWINGS

A. CONTRACTOR SHALL MAINTAIN AT THE JOB SITE ONE SET OF DOCUMENTS AS "RECORD DRAWINGS" FOR THE PURPOSE OF DAILY MARKING OF ALL SUBSTANTIAL REVISIONS TO THE DOCUMENTS INCLUDING BUT NOT LIMITED TO ELECTRICAL CHANGES, AND LOCATIONS OF UTILITIES, PANELBOARDS, DISCONNECTS, STARTERS AND OTHER DEVICES REQUIRING PERIODIC OPERATIONAL ATTENTION, ADJUSTMENT, OR SERVICE INCLUDING ACCESS THERETO, AT THE COMPLETION OF THE PROJECT, THIS SET SHALL BE RETURNED TO THE ARCHITECT FOR THE PURPOSE OF MAKING FINAL "AS-BUILT DRAWINGS".

10. EQUIPMENT SUBSTITUTION

A. SPECIFIC MANUFACTURERS AND MODELS OF EQUIPMENT HAVE BEEN USED IN THE DEVELOPMENT OF THE DRAWINGS AND DESIGNS. THIS CONTRACTOR MUST SUBMIT TO THE OWNER ANY CHANGES AND/OR SUBSTITUTIONS FOR APPROVAL PRIOR TO INSTALLATION OR EXECUTION. ANY CHANGES WHICH DO NOT RECEIVE THE OWNER'S APPROVAL MAY BE SUBJECT TO REMOVAL OR REPLACEMENT AS ORIGINALLY SPECIFIED, AND WILL BE AT THE CONTRACTOR'S EXPENSE.

B. IF THIS CONTRACTOR SUBSTITUTES FOR SPECIFIED EQUIPMENT ANY OTHER EQUIPMENT WHICH REQUIRES ANY CHANGES TO THE DESIGN, ALL COST OF REDESIGN AND RECONFIGURATION RESULTING FROM SAID SUBSTITUTION SHALL BE BORNE BY THE SUBMITTING CONTRACTOR.

11. EQUIPMENT INSTALLATION AND SUPPORT

A. CONTRACTOR SHALL SUPPORT PLUMB, RIGID AND TRUE-TO-LINE ALL WORK AND EQUIPMENT INSTALLED. THIS CONTRACTOR SHALL DETERMINE HOW EQUIPMENT, FIXTURES, ETC., ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED AND SHALL PROVIDE ACCESSORIES REQUIRED FOR PROPER SUPPORT WHETHER SHOWN ON THE DRAWINGS OR NOT. IF SUPPORTS ARE REQUIRED, CONTRACTOR SHALL SUBMIT DRAWINGS TO THE ARCHITECT FOR APPROVAL.

B. PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTALLATION AND MAINTENANCE LITERATURE. COMPONENTS REQUIRING PERIODIC MAINTENANCE OR ADJUSTMENTS SHALL BE LOCATED OR INSTALLED AS TO PERMIT ACCESS WITHOUT DAMAGE TO STRUCTURE, FINISHES OR OTHER EQUIPMENT.

C. ALL CONDUIT CONNECTING TO SWITCHGEAR, PANELS, MOTORS, AND OTHER EQUIPMENT SHALL BE INSTALLED WITHOUT STRAIN AT THE CONNECTIONS. THE CONTRACTOR MAY BE REQUIRED, AS DIRECTED, TO DISCONNECT CONDUITS TO DEMONSTRATE THAT THEY HAVE BEEN SO CONNECTED.

12. DEMOLITION

A. ALL EXISTING EQUIPMENT, NOT INDICATED TO BE INCORPORATED INTO THE NEW SYSTEM SHALL BE DISCONNECTED BY THIS CONTRACTOR FROM THE POWER SOURCE. CARE SHALL BE EXERCISED SO THAT NO DAMAGE IS DONE TO EXISTING BUILDING, PIPING, DUCTWORK, AND/OR ELECTRICAL EQUIPMENT. ANY DAMAGE ATTRIBUTED TO THIS CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR.

13. CUTTING AND PATCHING

A. ALL CUTTING THAT MAY BE NECESSARY FOR THE INSTALLATION OF THE WORK OR ANY REQUIRED PATCHING THAT RESULTS THEREFROM SHALL BE DONE BY THEROPER TRADE INVOLVED AND SHALL BE INCLUDED AS PART OF THIS CONTRACT. PATCH TO DUPLICATE UNDISTURBED ADJACENT FINISHES, COLORS, TEXTURES AND PROFILES. COLUMNS, BEAMS, GIRDERS OR JOISTS SHALL NOT BE CUT.

B. ALL WORK AFFECTING ROOF OR STRUCTURES SHALL BE PERFORMED BY LANDLORD'S CONTRACTOR AT TENANT'S EXPENSE

14. CLEANING

A. COMPLETION AS IT PERTAINS TO THE CONTRACT COMPLETION DATE IS DEFINED AS THE DAY THE PROJECT IS TURNED OVER TO THE OWNER IN THOROUGHLY CLEAN CONDITION. READY FOR THE OWNER TO TAKE POSSESSION. ALL FIXTURES, MOTORS, EQUIPMENT AND ALL OTHER ELECTRICAL EQUIPMENT FURNISHED OR INSTALLED BY THE CONTRACTOR SHALL BE THOROUGHLY CLEANED.

15. TESTS

A. PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS NECESSARY TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM. CORRECT PROMPTLY ANY FAILURE OR DEFECTS REVEALED BY THESE TESTS AND RECONDUCT TEST ON THE CORRECTED ITEMS.

B. TEST THE GROUNDS WITH A GROUND RESISTANCE DIRECT READING SINGLE-TEST MEGGER.

C. INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND NOT LESS THAN 1,000,000 OHMS

D. THE PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/- 10% VARIATION BETWEEN AVERAGE PHASE CURRENT AND MEASURE INDIVIDUAL PHASE.

E. AN OPERATIONAL TEST OF THE EMERGENCY LIGHTS AND THE EXIT LIGHTS SHALL BE PERFORMED FOR THE OWNER TO DEMONSTRATE CONFORMANCE TO THE SPECIFICATIONS.

16. TEMPORARY ELECTRICAL SERVICE

A. TEMPORARY ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. TEMPORARY LIGHTING SHALL BE PROVIDED BY A LAMP LOCATED FOR EVERY 625 SQUARE FEET OF BUILDING AREA WITH A MINIMUM OF ONE PER ROOM. THE LAMP TO BE 100 WATT AND SHALL BE MAINTAINED BY THE GENERAL CONTRACTOR.

B. TEMPORARY POWER DISTRIBUTION SHALL BE SUFFICIENT TO ACCOMMODATE THE TEMPORARY LIGHTING AND CONSTRUCTION OPERATIONS, INCLUDING THE USE OF POWER TOOLS (BUT NOT INCLUDING HEAVY-DUTY ELECTRIC WELDING UNITS), ELECTRICAL HEATING UNITS, AND START-UP OF SPECIFIED BUILDING EQUIPMENT, WHICH IS TO BE TESTED, STARTED OR PLACED INTO OUR USE PRIOR TO COMPLETION OF ITS PERMANENT POWER CONNECTIONS.

17. EXCAVATION AND BACKFILL

A. CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED AS SHOWN ON PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITY SERVICES, SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

18. WEATHERPROOFING

A. CONTRACTOR SHALL ENSURE ALL PENETRATIONS THROUGH EXTERIOR ENVELOPE ARE COMPLETELY SEALED AGAINST ALL AIR AND WATER INFILTRATION.

SECTION 16100

ELECTRICAL SPECIAL CONDITIONS

1. RELATED DOCUMENTS

A. APPLICABLE PROVISIONS OF AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", DIVISION 1 GENERAL CONDITIONS AND SECTION 16100 ELECTRICAL SPECIAL CONDITIONS GOVERN WORK UNDER THIS SECTION.

B. REFER TO SECTION 16100 ELECTRICAL SPECIAL CONDITIONS REGARDING REGULATIONS AND REQUIREMENTS AFFECTING ALL WORK DESCRIBED IN THIS SECTION

2. POWER SERVICE

A. POWER SERVICE FOR THIS PROJECT SHALL BE PROVIDED FROM THE UTILITY CO. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TO INSURE THAT ALL WORK AND MATERIALS ARE IN CONFORMANCE WITH THE UTILITY CO'S REQUIREMENTS.

3. NAMEPLATES

A. ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, PANELBOARDS, DISCONNECTS TRANSFORMERS, CONTROLS, ETC., SHALL BE IDENTIFIED WITH THREE PLY LAMINATED PLASTIC. THE OUTSIDE LAMINATIONS SHALL BE BLACK, THE CORE SHALL EXTEND THROUGH THE FRONT LAMINATION SO THAT THE BLACK LETTERS APPEAR ON A WHITE BACKGROUND. NAMEPLATES SHALL BE PERMANENTLY ATTACHED WITH SCREWS.

B. CIRCUIT DIRECTORY SHALL BE TYPEWRITTEN (HANDWRITTEN IS NOT ACCEPTABLE) AND SHALL IDENTIFY CIRCUIT AS TO TYPE AND LOCATION AS FOLLOWS:

"LTG" - FOR LIGHTING CIRCUIT FOLLOWED BY AREA IN WHICH CIRCUIT APPEARS, I.E., "STOCKROOM" "CASH WRAP", ETC

"RECEPT" - FOR RECEPTACLE CIRCUIT FOLLOWED BY AREA IN WHICH RECEPTACLE APPEARS, "STOREFRONT", "CASH REGISTER", ETC.

"MOTOR" - FOR MOTOR FOLLOWED BY THE EQUIPMENT IDENTIFICATION AND AREA IN WHICH MOTOR IS LOCATED, I.E. "EXH FAN TOILET", "AHU-ROOF", ETC.

4. CONDUIT

A. CONDUIT SHALL BE STANDARD STEEL, RIGID IMC OR EMT (THIN WALL). CONDUIT SHALL BE CONCEALED IN FINISHED AREAS. EXCEPT AS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE. INDOOR EMT CONNECTIONS SHALL BE SET SCREW TYPE FITTING WHERE ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION. EXTERIOR EMT CONNECTIONS SHALL BE COMPRESSION TYPE.

B. MINIMUM SIZES OF CONDUIT SHALL BE 3/4" EXCEPT 1/2" FOR SWITCH LEGS. EMT SHALL BE GALVANIZED OR ELECTRO-GALVANIZED. EMT SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS RUN ABOVE SUSPENDED CEILINGS OR CONCEALED IN INTERIOR PARTITIONS. EMT SHALL NOT BE CONCEALED IN POURED CONCRETE FLOOR OR WALLS.

C. USE HEAVY WALL CONDUIT OR PVC FOR UNDER SLAB INSTALLATIONS.

D. THE USE OF NONMETALLIC-SHEATHED CABLE, TYPE NM, IS NOT ACCEPTABLE.

1. THE USE OF METAL CLAD CABLES, TYPE MC, IS ACCEPTABLE WHERE APPROVED BY THE LOCAL AHJ. ALL BRANCH CIRCUIT HOME RUNS TO PANELBOARDS AND DEDICATED BRANCH CIRCUITS SHALL BE IN EMT.

2. ALL METAL CLAD CABLES, SHALL BE PROVIDED WITH A GROUND WIRE.

E. ALL OPENINGS IN FIRE AND SMOKE WALLS, PARTITIONS, FLOORS AND OTHER SIMILAR PENETRATIONS FOR ELECTRICAL CONDUITS, CABLE OR EQUIPMENT, WHETHER CUT OR IN PLACE, SHALL BE CLOSED WITH A UL APPROVED FIRE RESISTANT SILICONE FOAM SEALANT TO MAINTAIN THE FULL RATING AND INTEGRITY OF THE PARTITIONS, WALLS OR FLOOR.

F. CONDUIT BENDS FOR POWER AND LIGHTING CIRCUITS SHALL NOT BE LESS THAN STANDARD RADIUS BENDS. CONDUIT BENDS FOR FEEDERS, TELEPHONE AND COMMUNICATION CIRCUITS SHALL NOT BE LESS THAN LONG RADIUS BENDS.

G. O.Z. TYPE DX, TX, OR AX CONDUIT EXPANSION DEFLECTION FITTINGS ARE REQUIRED IN ALL CONDUIT RUNS WHERE MOVEMENT MAY BE ENCOUNTERED. ALL EMT COUPLINGS SHALL BE COMPRESSION TYPE.

H. EXPOSED CONDUIT SHALL BE SECURELY SUPPORTED IN PLACE PER CODE BUT ON A MAXIMUM OF 10 FOOT INTERVALS, WITHIN THREE FEET OF EACH BEND, AT EVERY OUTLET OR JUNCTION BOX AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPE WORK. CONDUITS SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO THE BUILDING GENERALLY. CONDUIT SHALL BE RUN IN CONTACT WITH STRUCTURAL PARTS OF THE BUILDING SO AS TO AVOID SUSPENDED LENGTHS OF CONDUIT. CONDUIT SHALL BE INSTALLED AS TO BE ACCESSIBLE FOR REPLACEMENT AND MAINTENANCE AND GENERALLY CONDUIT SHALL BE INSTALLED TO PERMIT DRAINAGE.

5. WIRE AND CABLE

A. ALL WIRE AND CABLE SHALL BE COPPER AND RUN IN CONDUIT. ALL WIRE AND CABLE FEEDERS AND BRANCH CIRCUITS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE CURRENT EDITION OF THE N.E.C. AND SHALL MEET ALL ASTM SPECIFICATIONS. WIRE AND CABLE SHALL BE NEW, SHALL HAVE SIZE, GRADE OF INSULATION VOLTAGE AND MANUFACTURER'S NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVAL AND SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING SIZE AND INSULATION TAGS.

B. THE ELECTRICAL CONTRACTOR SHALL CALCULATE VOLTAGE DROP ON CONDUCTORS WITH LENGTHS GREATER THAN 75 FEET FROM THE PANELBOARD AND PROPERLY SIZE THE CONDUCTORS PER N.E.C.

C. POWER CONDUCTORS: NO WIRE LESS THAN NO. 12 SHALL BE USED EXCEPT FOR CONTROL CIRCUITS OR LOW VOLTAGE WIRING. WIRE SIZES NO. 12 TO NO. 10 SHALL BE SOLID EXCEPT WHERE OTHERWISE INDICATED. WIRE SIZES NO. 8 AND LARGER SHALL BE STRANDED. ALL WIRE SIZES SHOWN ARE AMERICAN WIRE GAUGE SIZES. SIZES NO. 12 AWG THROUGH NO. 8 AWG SHALL BE "THHN." SIZE 4 AWG AND LARGER SHALL BE "THW."

D. CONTINUITY: ALL WIRES SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.

E. ACCEPTABLE MANUFACTURERS: CABLE AND WIRE SHALL BE STANDARD TYPE AS MANUFACTURED BY GENERAL CABLE COMPANY, CAROL, ANACONDA, ROM OR ITT ROYAL.

6. COLOR CODING

A. A COLOR CODING SYSTEM AS LISTED BELOW SHALL BE FOLLOWED THROUGHOUT FOR FEEDERS AND BRANCH CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD.

--120/208V: PHASE A--BLACK, PHASE B--RED, PHASE C--BLUE, NEUTRAL--WHITE, GROUND--GREEN
--277/480V: PHASE A--BROWN, PHASE B--ORANGE, PHASE C--YELLOW, NEUTRAL--GRAY, GROUND--GREEN

7. BOXES AND FITTINGS

A. ALL OUTLETS SHALL BE PROVIDED WITH GALVANIZED OR SHERARDIZED BOXES SUITABLE IN DESIGN TO THE SPACE THEY OCCUPY AND THE PURPOSE THEY SERVE. WALL MOUNTED OUTLET BOXES, EXCEPT FOR 2" PARTITIONS SHALL BE AT LEAST 1 1/2" DEEP AND/OR DEEPER IF REQUIRED BY THE DEVICE THEY HOLD OR THE NATIONAL ELECTRICAL CODE.

B. ALL PULLBOXES SHALL BE MADE OF GALVANIZED STEEL, OF METAL GAUGE AND PHYSICAL SIZE AS REQUIRED BY THE N.E.C. FOR THE NUMBER AND SIZE OF RACEWAYS AND CONDUCTORS INVOLVED.

C. FIXTURE OUTLET BOXES IN OR ON CEILINGS SHALL NOT BE LESS THAN 1-1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX WITH FOUR BOLTS

8. CIRCUIT BREAKER PANELBOARDS

A. PANELS SHALL BE DEAD FRONT, SAFETY TYPE. FURNISHED WITH BRANCH CIRCUIT PROTECTING DEVICES, EQUIPMENT GROUNDING BOX, MAIN BUS AND CABLE LUGS FACTORY ASSEMBLED, WITH ALL COMPONENTS IN PLACE, READY FOR INSTALLATION.

B. CURRENT CARRYING CONTACT SURFACES SHALL BE COPPER. THE CIRCUIT BREAKERS SHALL BE OF THE MOLDED CASE, PLUG-IN TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN SCHEDULES AND SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 22,000 AMPERES FOR 120/208V AND 25,000 AMPERES AT 277/480V.

C. MAIN BUSES AND CONNECTORS SHALL BE HARD DRAWN COPPER OF 98% CONDUCTIVITY, WITH CURRENT CARRYING CAPACITY TO MAINTAIN ESTABLISHED RISE TESTS AS DEFINED IN UL STANDARD UL 67.

D. CABINET SIZES ARE BASED UPON A 20" WIDE BY 6" DEEP PANEL UNLESS OTHERWISE NOTED. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS SHALL BE KEYED ALIKE, AND TWO KEYS ARE TO BE SUPPLIED WITH EACH LOCK.

E. BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH DUTY.

F. BREAKERS SERVING COOLER, FREEZER AND HVAC EQUIPMENT SHALL BE HACR RATED.

G. ALL LUGS SHALL BE OF THE SOLDERLESS TYPE AND RATED AT A MINIMUM OF 75 DEGREES.

H. PROVIDE PANEL DIRECTORY, TYPED AND INSTALLED BEHIND CLEAR PLASTIC COVER ON INSIDE OF THE DOOR.

I. PANELBOARDS TO BE BY SQUARE D, ABB, SIEMENS OR EATON.

9. TRANSFORMERS

A. DRY-TYPE TRANSFORMERS (DOE 2016) SHALL BE OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATING AS CALLED FOR ON THE DRAWINGS AND WITH 150° CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS. SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY (MOUNT TRANSFORMER ON VIBRATION ISOLATORS). LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OF VIOLATIONS WITH OTHER EQUIPMENT.

B. COMPARABLE EQUIPMENT AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR EATON.

10. TOGGLE SWITCHES

A. TOGGLE SWITCHES SHALL BE WHITE AND SHALL BE RATED 20 AMPERES 120/277 VOLT AC TYPE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
SINGLE POLE - 1221-W
THREE WAY - 1223-W

B. TOGGLE SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO TOP OF MOUNTING PLATE AND, AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLATION OF CONDUIT OUTLETS.

C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SLATER, LEVITON, AND BRYANT WILL BE ACCEPTABLE

11. RECEPTACLES

A. RECEPTACLES SHALL BE WHITE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
DUPLEX RECEPTACLE - 20A-125 VOLT 5362-W GFCI DUPLEX RECEPTACLE - 20A-125 VOLT GF5362-W

B. RECEPTACLES SHALL BE MOUNTED 18" ABOVE THE FINISHED FLOOR TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.

C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, SLATER, BRYANT AND LEVITON WILL BE ACCEPTABLE.

12. DEVICE PLATES

A. DEVICE PLATES SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, HARVEY HUBBLE INC., BRYANT AND LEVITON WILL BE ACCEPTABLE. PAINT MATCH ADJACENT FINISH COLOR.

13. DISCONNECT SWITCHES

A. FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY TYPE AND UNDERWRITERS LABORATORIES LISTED, MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS

14. FUSES

A. PROVIDE CARTRIDGE FUSES RATED FOR 250 V AC AND 600 V AC AND LESS FOR USE AS SPECIFIED HEREIN.
B. COORDINATE FUSE RATINGS WITH UTILIZATION EQUIPMENT NAMEPLATE LIMITATIONS OF MAXIMUM FUSE SIZE AND WITH SYSTEM SHORT-CIRCUIT CURRENT LEVELS.
C. CARTRIDGE FUSE APPLICATIONS.

1. FEEDERS, UP TO AND INCLUDING 600 AMPS: CLASS RK1, BUSSMANN LPN-RK-SP FOR 250 VOLTS, BUSSMANN LPS-RK-SP FOR 600 VOLTS.
2. FEEDERS, FROM 601 AMPS TO 4,000 AMPS: CLASS RK1, BUSSMANN KRP-C FOR UP TO 600 VOLTS, BUSSMANN.

BASIS OF DESIGN FOR FUSES SHALL BE BUSSMANN. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SPECIFIED FUSES SHALL BE LITTLE FUSE AND MERSEN

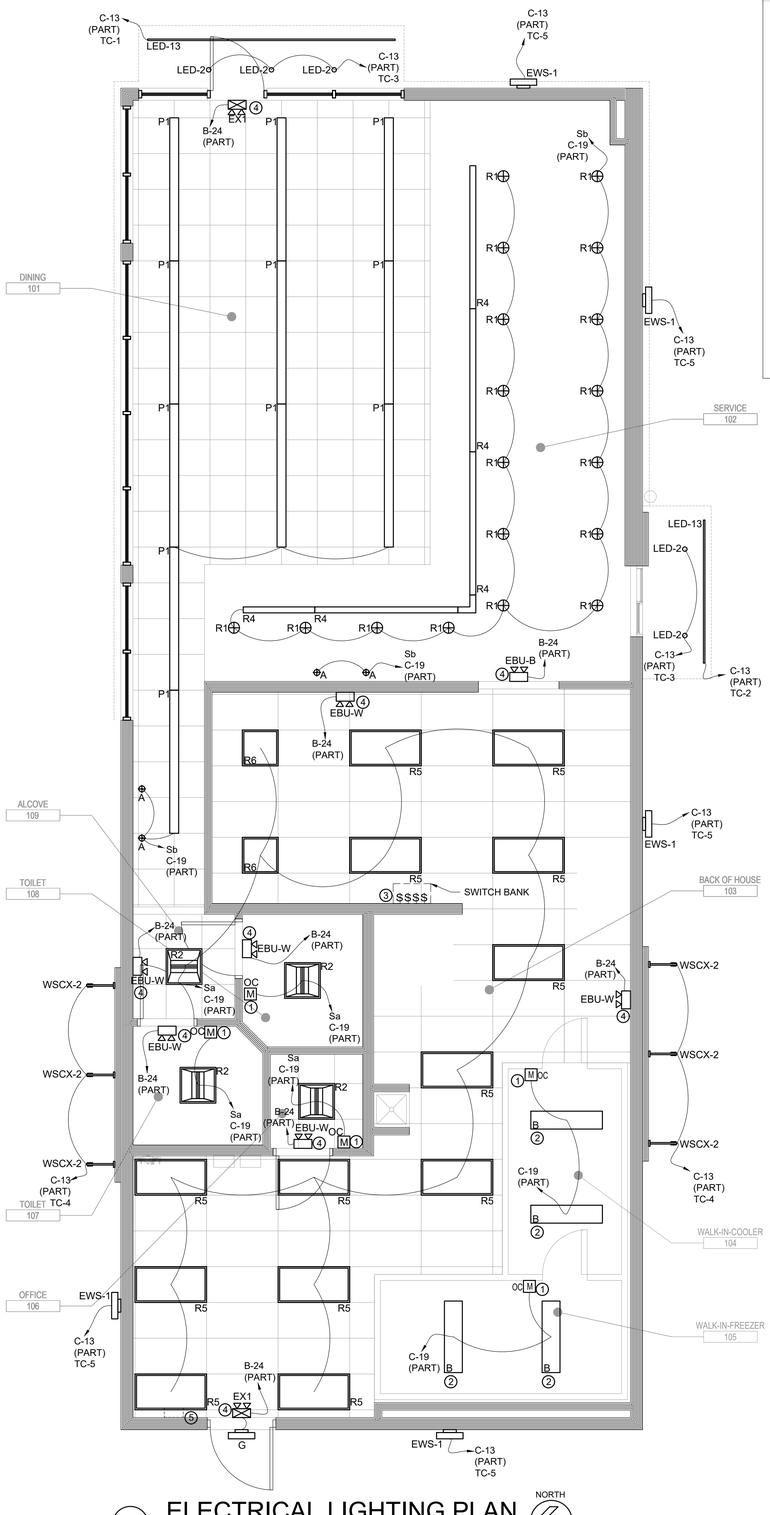
15. GROUNDING

A. CONTRACTOR SHALL INSTALL GROUNDING PER N.E.C. ARTICLE 250 EQUIPMENT GROUNDING SHALL USE ONLY APPROVED GROUNDING CLAMPS AND CONNECTORS AS MANUFACTURED BY PENN-UNION, BURNDY, OR O-Z COMPANY.

B. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250 AND THE UTILITY COMPANY REGULATIONS. CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTORS TO THE NEUTRAL BAR INSIDE THE MAIN PANEL.

C. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF A CONTINUOUS CONDUIT INSTALLATION AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT OR RACEWAY WITH THE FEEDER OR BRANCH CIRCUIT CONDUCTORS. THIS GROUNDING SHALL B

SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS



1 ELECTRICAL LIGHTING PLAN

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

CONTROL RELAY PANEL SCHEDULE

DESCRIPTION	FIXTURE TAG	CKT WATTS	CONTROL VIA	CIRCUIT	#RELAY#
EXTERIOR LIGHT FIXTURE-USED ON TOP AND ON UNDERSIDE OF THE ORANGE BEAM	LED -13	-	TC:1	C-13	1
EXTERIOR LIGHT FIXTURE-USED ON TOP AND ON UNDERSIDE OF THE ORANGE BEAM	LED -13	-	TC:2	C-13	2
EXTERIOR RECESSED LIGHT FIXTURE USED UNDER ORANGE BEAM CANOPY	LED -2	90	TC:3	C-13	3
COMBO LED EXIT SIGN W/LIGHT HEADS (WHITE)	WSCX-2	30	TC:4	C-13	4
WALL PACK (GRAY) EXTERIOR-USED ON DARK WALL	EWS-1	135	TC:5	C-13	5
RECESSED LED LIGHT FIXTURE	R1	378	Sb	C-19	6
2x2 LAY-IN LED TROFFER LIGHT FIXTURE	R2	105	OCC	C-19	7
LED LINEAR LIGHT BAR-USER ABOVE FRONT LINE FOR RESTROOM/OFFICE	R4	43.5	Sb	C-19	8
RRWALL PACK (WHITE) EXTERIOR - USED ON LIGHT WALL	R5	650	Sa	C-19	9
2x2 TROFFER LIGHT FIXTURE	R6	0	Sa	C-19	10
8' SUSPENDED LINEAR LIGHT FIXTURE	P1	682	Sb	C-19	11
WALL WASHER FIXTURE-USED AT ART WORK AND LROD SIGN	A	80	Sb	C-19	12
PROVIDED BY WALK-IN BOX MANUFACTURER	B	-	OCC	C-19	13
2x2 LAY-IN LED TROFFER LIGHT FIXTURE	R2	35	Sa	C-19	14

GENERAL NOTES

1. PLACEMENT OF LIGHT FIXTURES SHALL BE SET AS DIMENSIONED & AS SCHEDULED.
2. LIGHT FIXTURES SHALL BE SUPPLIED AS SCHEDULED WITH NO EXCEPTIONS.
3. MINIMUM WIRE SIZE SHALL BE NO. 12 COPPER.
4. ALL EMERGENCY AND EXIT LIGHTING SHALL BE WIRED AHEAD OF THE SWITCHING. EMERGENCY LIGHTING SHALL BE ON THE SAME CIRCUITRY AS THE GENERAL LIGHTING IN THE AREA THEY SERVE. EMERGENCY LIGHTING WIRING SHALL BE IDENTIFIED (MARKED) PER NEC 700.9. PROVIDE GENERAL LIGHTING CIRCUITS, WHICH HAVE EMERGENCY LIGHTING CONNECTIONS, WITH LOCK-OUT ON BREAKER.
5. ALL LIGHTING FIXTURES IN FOOD AND BEVERAGE PREP AREA SHALL BE SHATTERPROOF.
6. CONTRACTOR SHALL VERIFY LIGHTING SYSTEMS HAVE BEEN TESTED TO ENSURE CALIBRATION, ADJUSTMENT, PROGRAMMING AND OPERATION PER LOCAL CODES.
7. ALL OUTDOOR LIGHTS SHALL BE OPERATED THROUGH ASTRONOMICAL TIMER.

ⓧ KEYNOTES

1. INSTALL SWITCH HEIGHT MOUNTED OCCUPANCY SENSOR, HUBBELL MODEL LHIRS1.
2. PROVIDE OCCUPANCY SENSOR SWITCHES FOR WALK-IN FREEZER. ENSURE SWITCHES ARE SUITABLE FOR TEMPERATURE OF SPACE.
3. CO-ORDINATE EXACT LOCATION OF DIMMER SWITCH BANK WITH ARCHITECT.
4. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO NEAREST LIGHTING CIRCUIT AND WIRE THEM AHEAD OF THE SWITCH CONTROL.
5. PROVIDE CONTROL RELAY PANEL AS SPECIFIED BY THE LIGHTING VENDOR. PROVIDE AND INSTALL DIGITAL SWITCH(ES) AS REQUIRED.

LIGHTING FIXTURE SCHEDULE

CODE	DESCRIPTION	MANUFACTURER	PRODUCT	WATT(W)
R1	RECESSED LED LIGHT FIXTURE	CREE	RC6/CR6T-1600L-35K	21W
R2	2x2 LAY-IN LED TROFFER LIGHT FIXTURE	CREE	CR22-32K-S-HD	35W
R4	LED LINEAR LIGHT BAR-USER ABOVE FRONT LINE	PINNACLE	EX3D-A-N-835VHO-8-S/AC 120ST	8.7W/FT
R4a	PINK LED LINEAR LIGHT BAR- USED ABOVE BASKIN DIPPING CABINET	PINNACLE	EX3D-A-35VHO-8'-AC48JB-120-1C-CC	8.7W/FT
R5	RRWALL PACK (WHITE) EXTERIOR - USED ON LIGHT WALL	CREE	SFP24-LED50-50-UE-DIM-35-U	50W
EBU-W	ULTRA COMPACT LED EMERGENCY UNIT (WHITE)SOAP DISPENSER	EXITRONIX	EBU-W-LED-51-52	3W
EX-1	WALL PACK (WHITE) EXTERIOR - USED ON LIGHT WALL	EXITRONIX	VLED-U-WH-EL90	2.2W
P1	8' SUSPENDED LINEAR LIGHT FIXTURE	TEXAS FLUORESCENTS	SES-FR-96L-S62W6200L-DMV-35K-BK	62W
A	WALL WASHER FIXTURE-USED AT ART WORK AND LROD SIGN	CONTECH	RL20SA3-35K-12-D/CTR2002CLR-P	20W
B	PROVIDED BY WALK-IN BOX MANUFACTURER	VARIES	VARIES	VARIES
C	TRACK LIGHT & HEAD- USED @ WALL W/ ART WORK AND WHERE CEILING IS OPEN	JUNO	R600L-35K-BL	9.5W
LED-14	EXTERIOR LIGHT FIXTURE-ACCENT LIGHT USED ON TOP OF CHARCOAL	LED POWER	HB308-48"-41K-15D-AC	4.75W/FT
G	WALL PACK-ABOVE SERVICE DOOR	COOPER	XTOR3A	30W
LED-2	EXTERIOR RECESSED LIGHT FIXTURE USED UNDER ORANGE BEAM CANOPY	LUMARK	XTOR2B-W	18W
EX1	COMBO LED EXIT SIGN W/LIGHT HEADS (WHITE)	EXITRONIX	VLED-U-WH-EL90	5W
EWS-1	WALL PACK (GRAY) EXTERIOR-USED ON DARK WALL	WAC	WP-LED227-30-AGH	27W
LED 13	EXTERIOR LIGHT FIXTURE-USED ON TOP AND ON THE UNDERSIDE OF THE ORANGE BEAM	- -	PROVIDED BY ORANGE BEAM VENDOR	- -
R6	2x2 TROFFER LIGHT FIXTURE	- -	- -	- -
G	WALL PACK EXTERIOR FIXTURE	- -	- -	- -
WSCX-2	COMBO LED EXIT SIGN W/LIGHT HEADS (WHITE)	HI-LITE MFG INC	H-HDMR 16/18-1-119/MR16AD1C293010T	5W
LED-12	EXTERIOR LIGHT FIXTURE-USED ON TOP OF CHARCOAL TRIM AND FIELD FRAMED ORANGE BEAM	SOLID STATE LUMINAIRE	SSL-LSSL-5164-400 LUMEN	5W/FT

CONTROL RELAY PANEL SCHEDULE

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PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
ISSUED FOR PERMIT	04/11/2025

DRAWN BY:

CHECKED BY:

SHEET TITLE.

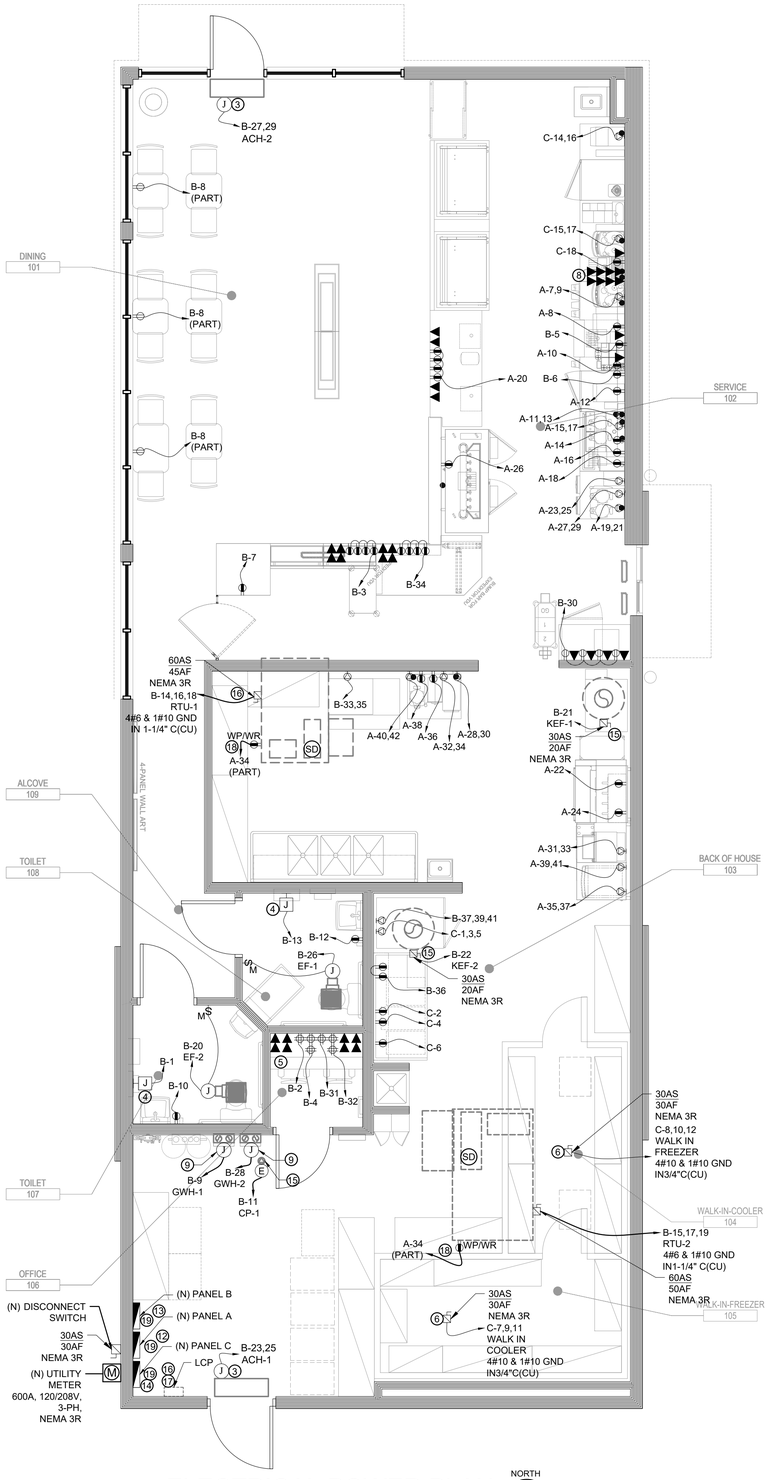
ELECTRICAL LIGHTING PLAN

SHEET NO.

E3

Kolbrook Job No. 1502.236 | Consultant Job No. -

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1 ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. RECEPTACLES TO MATCH FINAL WALL FINISH. SEE ELEVATIONS ON E2.0 FOR MOUNTING HEIGHTS.
2. COORDINATE EXACT LOCATION OF HVAC EQUIPMENT ON ROOF WITH MECHANICAL CONTRACTOR.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH CONTRACTOR AND EQUIPMENT MANUFACTURE PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECTED WITH MANUFACTURE AND CONTRACTOR PRIOR TO ROUGH-IN. LOCATE AS REQUIRED MAINTAIN NEC CLEARANCE.

ⓧ KEYED NOTES

1. NOT IN USE.
2. NOT IN USE.
3. E.C. TO COORDINATE WITH THE HEAT CURTAIN MANUFACTURER FOR EXACT LOCATION OF JUNCTION BOX.
4. PROVIDE JUNCTION BOX FOR "HANDS FREE" FAUCET IN RESTROOMS. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH MANUFACTURER.
5. REFER TO POS COMMUNICATIONS FLOOR PLAN FOR LOCATIONS AND ELEVATIONS OF RECEPTACLES.
6. E.C. TO COORDINATE EXACT POWER REQUIREMENT FOR WALK-IN BOXES WITH THE MANUFACTURER AND PROVIDE BREAKER AND BRANCH CIRCUITS ACCORDINGLY.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX FOR THE EXTERIOR SIGNAGE. INSTALL THE JUNCTION BOX WITHIN THE BUILDING. COORDINATE WITH THE SIGN VENDOR THE QUANTITY AND LOCATION OF THE REQUIRED JUNCTION BOXES. THE CONTRACTOR SHALL PROPERLY SIZE THE JUNCTION BOX BASED ON THE QUANTITY OF CONNECTIONS REQUIRED. VERIFY LOCATION WITH ARCHITECTURAL ELEVATION ON SHEET A5.0 AND SIGN VENDOR PRIOR TO INSTALLING. ALL SIGNS SHALL BE CONTROLLED VIA TIME CLOCK.
8. DEDICATED DUPLEX RECEPTACLE(NON GFI) AND DATA OUTLETS FOR VERITICAL DIGITAL MENUBOARD. E.C. TO COORDINATE WITH VENDOR FOR HEIGHT OF OUTLETS.
9. E.C. TO PROVIDE ELECTRICAL POWER SUPPLY TO THE KIOSK FROM OVERHEAD. COORDINATE MOUNTING HEIGHT EXACT LOCATION OF THE OUTLET AND POWER REQUIREMENTS WITH MANUFACTURER/OWNER.
10. NOT IN USE
11. NOT IN USE.
12. NEW 600A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" . E.C. COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT/OWNER.
13. NEW 125A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B". E.C. TO COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT/OWNER.
14. NEW 200A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "C". E.C. TO COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT/OWNER.
15. EXHAUST FANS FURNISHED & INSTALLED BY MECHANICAL CONTRACTOR. EC SHALL COORDINATE FOR EXACT LOCATION & PROVIDE NECESSARY WIRING & CONTROLS.
16. PROVIDE CONTROL RELAY PANEL AS SPECIFIED BY THE LIGHTING VENDOR. PROVIDE AND INSTALL DIGITAL SWITCH(ES) AS REQUIRED.
17. COORDINATE EXACT LOCATION OF LIGHTING CONTROL PANEL WITH ARCHITECT/OWNER.
18. EC SHALL COORDINATE WITH ARCHITECT FOR FINAL EQUIPMENT ELECTRICAL REQUIRED. PRIOR TO ROUGH-IN AND PROVIDE ELECTRICAL POWER AS PER MANUFACTURER REQUIREMENTS. IF REQUIRED.
19. EC SHALL FIELD VERIFY LOCATION EXISTING ELECTRICAL PANEL PRIOR TO ROUGH-IN UPDATE AND NOTIFY ELECTRICAL ENGINEER.

GROUNDING NOTES

1. A CONCRETE-ENCASED ELECTRODE IS REQUIRED TO BE INSTALLED PER VILLAGE CODE.
2. THE CONCRETE-ENCASED ELECTRODE MUST MEET THE CURRENT NATIONAL ELECTRICAL CODE (NEC) SECTION 250.52.
3. PROVIDE CONCRETE-ENCASED ELECTRODE WITH CONNECTION CONVENIENT TO THE SERVICE DISCONNECT ENCLOSURE. COORDINATE WITH THE ELECTRICAL CONTRACTOR. THIS WORK MUST BE DONE WHEN THE FOOTINGS ARE INSTALLED. PER NEC 250.52(A) (3).

DUNKIN'

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PROFESSIONAL ENGINEER
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PROJECT:
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1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
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ELECTRICAL POWER PLAN

SHEET NO.

E4

Kolbrook Job No.	1502.236	Consultant Job No.	-

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NAME:	J02_2537_DDBR_SHELBYVILLE_IN													
TAG:	(N) PANEL A													
	LOAD												LOAD	
LOAD	TYPE	A	B	C	Amps	No.	No.	Amps	A	B	C		TYPE	LOAD
PANEL -B	SF	17446			125	1	2	200	12533				SF	PANEL-C
	SF		17068			3	4			12416			SF	
	SF			19985		5	6				12092		SF	
96.4 ESPRESSO MACHINE	EQ	2112			30	7	8	20	230				EQ	101C-3 DAIRY DISPENSER
	EQ		2112			9	10	20		60			EQ	101L POWDER DISPENSER
124B 1.5 GAL SH SERVER	EQ			1400	20	11	12	20			230		EQ	101C-3 DAIRY DISPENSER
	EQ	1400				13	14	20	216				EQ	124G TWIN SH STAND WITH WIFI
124B 1.5 GAL SH SERVER	EQ		1400		20	15	16	20		216			EQ	124G TWIN SH STAND WITH WIFI
	EQ			1400		17	18	20			1056		EQ	101Q-3 MULTI HOPPER COFFEE GRINDER
124A TWIN SH BREWER	EQ	3203			50	19	20	20	720				EQ	POS PRINTER
	EQ		3203			21	22	20		468			EQ	375 ASSEMBLY STATION
124B 1.5 GAL SH SERVER	EQ			1400	20	23	24	20			1800		EQ	246A SINGLE SIDED HOT HOLDING UNIT
	EQ	1400				25	26	20	115				EQ	275 8 TAP SYSTEM WITH GENERATOR
124B 1.5 GAL SH SERVER	EQ		1400		20	27	28	25		1747			EQ	124E SINGLE SH BREWER
	EQ			1400		29	30				1747		EQ	
244A DUAL LANE TOASTER	EQ	2475			30	31	32	20	1750				EQ	124B 1.5 GAL SH SERVER
	EQ		2475			33	34			1750			EQ	
215 TORNADO OVEN	EQ			3120	40	35	36	20			1320		EQ	101Q-3 MULTI HOPPER COFFEE GRINDER
	EQ	3120				37	38	20	1320				EQ	101Q-3 MULTI HOPPER COFFEE GRINDER
215 TORNADO OVEN	EQ		3120		40	39	40	25		2028			EQ	200 1.5 GAL SH SERVER
	EQ			3120		41	42				2028		EQ	
SUBTOTAL #1		31156	30778	31825					16884	18685	20273			SUBTOTAL #2
SUBTOTAL #2		16884	18685	20273										
SUBTOTAL		48040	49463	52098										
TOTAL PANEL LOAD:	149.6	KVA	415.3	Amps	332.2	DEMAND Amps								
VOLTS:	120/208V	3ph			SCCR	REFER TO ELECTRICAL DATA SCHEHDULE								
MAINS:	400	A MCB												
MOUNTING:	SEE PLANS													

NOTES:
1. CONTRACTOR SHALL PROVIDE ADEQUATE WITHSTAND RATING OF EQUIPMENT PER AVAILABLE FAULT CURRENT FORM THE EXISTING UTILITY OR DISTRIBUTION. COORDINATE WITH UTILITY.
2. THE CONTRACTOR SHALL ADJUST CIRCUIT AS REQUIRED BASED ON FINAL EQUIPMENT TO MAINTAIN 10% LOADING BETWEEN PHASES
3. VERIFY ELECTRICAL REQUIREMENTS AND EQUIPMENT LOCATION PRIOR TO ROUGH-IN.
4. L-LIGHT, K-KITCHEN, H-HVAC, R-RECEPTACLE, EQ-EQUIPMENT, HW-HOT WATER HEAT, M-MISCELLANEOUS, P-POWER
5. ALL FEEDERS SHOWN IN PANEL SCHEDULE ARE TO REFER CIRCUITS ON PLAN ONLY, EC SHALL UPDATE PER ACTUAL IN PANELCARD ON PANEL.

NAME:	J02_2537_DDBR_SHELBYVILLE_IN													
TAG:	(N) PANEL B													
	LOAD												LOAD	
LOAD	TYPE	A	B	C	Amps	No.	No.	Amps	A	B	C		TYPE	LOAD
HAND DRYER	EQ	1000			20	1	2	20	360				R	OFFICE POS REC.
VDU PRINTER REC.	R		720		20	3	4	20		540			R	OFFICE POS REC.
DIGITAL MENU BOARD	K			1000	20	5	6	20			720		R	POS REC.
COMMENTS/TRASH	R	1000			20	7	8	20	540				H	GENERAL REC.
GWH-1	HW		114		20	9	10	20		180			H	RESTROOM REC.
CP-1	HW			92	20	11	12	20			180		H	RESTROOM REC.
HAND DRYER	EQ	1000			20	13	14		2882				H	
RTU-2	H		4035		50	15	16	45		2882			H	RTU-1
	H			4035		17	18				2882		H	
	H	4035				19	20	20	24				H	EF-1
KEF-1	H		598		20	21	22	20		460			H	KEF-2
ACH-1	H			3245	40	23	24	20			46		L	EMEMERGENCY LIGHT
	H	3245				25	26	20	60				H	EF-2
ACH-2	H		3245		40	27	28	20		114			HW	GWH-2
	H			3245		29	30	20			720		R	DRIVE THROUGH REC.
OFFICE POS REC.	R	540			20	31	32	20	360				R	OFFICE POS REC.
414-ICE MACHINE	EQ		1060		30	33	34	20		720			R	OMO PRINTER REC.
	EQ			1060		35	36	20			360		R	STORAGE AREA RECEPTACLES
552-B STACKED CONVECTION OVN	EQ	2400			30	37	38	20						SPARE
	EQ		2400			39	40	20						SPARE
	EQ			2400		41	42	20						SPARE
SUBTOTAL #1		13220	12172	15077					4226	4896	4908			SUBTOTAL #2
SUBTOTAL #2		4226	4896	4908										
SUBTOTAL		17446	17068	19985										
TOTAL PANEL LOAD:	54.5	KVA	151.3	Amps	121.0	DEMAND Amps								
VOLTS:	120/208V	3ph			SCCR	REFER TO UPSTREAM PANEL SCCR								
MAINS:	200	MLO												
MOUNTING:	SEE PLANS													

NOTES:
1. CONTRACTOR SHALL PROVIDE ADEQUATE WITHSTAND RATING OF EQUIPMENT PER AVAILABLE FAULT CURRENT FORM THE EXISTING UTILITY OR DISTRIBUTION. COORDINATE WITH UTILITY.
2. THE CONTRACTOR SHALL ADJUST CIRCUIT AS REQUIRED BASED ON FINAL EQUIPMENT TO MAINTAIN 10% LOADING BETWEEN PHASES
3. VERIFY ELECTRICAL REQUIREMENTS AND EQUIPMENT LOCATION PRIOR TO ROUGH-IN.
4. L-LIGHT, K-KITCHEN, H-HVAC, R-RECEPTACLE, EQ-EQUIPMENT, HW-HOT WATER HEAT, M-MISCELLANEOUS, P-POWER
5. ALL FEEDERS SHOWN IN PANEL SCHEDULE ARE TO REFER CIRCUITS ON PLAN ONLY, EC SHALL UPDATE PER ACTUAL IN PANELCARD ON PANEL.

NAME:	J02_2537_DDBR_SHELBYVILLE_IN													
TAG:	(N) PANEL C													
	LOAD												LOAD	
LOAD	TYPE	A	B	C	Amps	No.	No.	Amps	A	B	C		TYPE	LOAD
552-B STACKED CONVECTION OVN	EQ	2400			20	1	2	20	500				EQ	552B- OVEN CONTROL
	EQ		2400			3	4	20		500			EQ	552B- OVEN CONTROL
	EQ			2400		5	6	20			1440		EQ	563-POWERBASE
WALK IN COOLER	H	2870			30	7	8	30	2870				H	
	H		2870			9	10			2870			H	WALK IN FREEZER
	H			2870		11	12				2870		H	
EXTERIOR LIGHTING	L	255			20	13	14	25	1664				EQ	119 HOT CHOCOLATE MACHINE
96.4 ESPRESSO MACHINE	EQ		2112		30	15	16			1664			EQ	
	EQ			2112		17	18	20			400		EQ	BEVERAGE VDU RECEPTACLE
INTERIOR LIGHTING	L	1974			20	19	20	20						SPARE
SPARE					20	21	22	20						SPARE
SPARE					20	23	24	20						SPARE
SPARE					20	25	26	20						SPARE
SPARE					20	27	28	20						SPARE
SPARE					20	29	30	20						SPARE
SPARE					20	31	32	20						SPARE
SPACE						33	34							SPACE
SPACE						35	36							SPACE
SPACE						37	38							SPACE
SPACE						39	40							SPACE
SPACE						41	42							SPACE
SUBTOTAL #1		7499	7382	7382					5034	5034	4710			SUBTOTAL #2
SUBTOTAL #2		5034	5034	4710										
SUBTOTAL		12533	12416	12092										
TOTAL PANEL LOAD:	37.0	KVA	102.8	Amps	82.3	DEMAND Amps								
VOLTS:	120/208V	3ph			SCCR	REFER TO UPSTREAM PANEL SCCR								
MAINS:	200	MLO												
MOUNTING:	SEE PLANS													

NOTES:
1. CONTRACTOR SHALL PROVIDE ADEQUATE WITHSTAND RATING OF EQUIPMENT PER AVAILABLE FAULT CURRENT FORM THE EXISTING UTILITY OR DISTRIBUTION. COORDINATE WITH UTILITY.
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5. ALL FEEDERS SHOWN IN PANEL SCHEDULE ARE TO REFER CIRCUITS ON PLAN ONLY, EC SHALL UPDATE PER ACTUAL IN PANELCARD ON PANEL.

ELECTRICAL WIRING METHOD

A. ALL CONDUIT SHALL BE RUN CONCEALED IN SO FAR AS IS PRACTICABLE. CONDUITS SHALL BE EXPOSED ONLY WHERE SO INDICATED ON THE DRAWINGS OR IN UNFINISHED AREAS SUCH AS ELECTRICAL AND BOILER ROOMS.

B. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE ON THE PLANS.

C. RIGID METAL CONDUIT: HOT DIPPED GALVANIZED, MILD STEEL PIPE, ZINC COATED THREADS WITH AN OUTER COATING OF ZINC BICHROMATE, AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.

D. INTERMEDIATE METAL CONDUIT (IMC): HOT DIPPED GALVANIZED, MILD STEEL PIPE, ZINC COATED THREADS WITH AN OUTER COATING OF ZINC BICHROMATE AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.

E. FLEXIBLE METAL CONDUIT: GALVANIZED OR ZINC METALIZED STEEL, SINGLE STRIP INTERLOCKED CONSTRUCTION AS MANUFACTURED BY TRIANGLE, ANACONDA, AMERICAN FLEXIBLE CONDUIT, ELECTRIC-FLEX, OR EQUAL.

F. ELECTRIC METALLIC TUBING (EMT): HOT DIPPED GALVANIZED, MILD STEEL TUBE, ZINC COATED, AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.

G. RIGID NONMETALLIC CONDUIT: SCHEDULE 40 PVC AS MANUFACTURED BY CARLON OR EQUAL.

H. METAL CLAD CABLE: TYPE MC, COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, 90 DEG. C, INTERLOCKED STEEL TAPE ARMOR.

I. ARMORED CABLE: TYPE AC, COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, 90 DEG. C.

J. ANY EXPOSED RACEWAY SHALL BE RUN TRUE, PLUMB AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.

K. ALL CONDUCTORS SHALL BE COPPER.

L. RACEWAYS SHALL BE SEALED WHERE ENTERING PULL BOXES OR STRUCTURES.

M. SINGLE CONDUCTOR CABLES SHALL BE USED FOR FEEDERS AND BRANCH CIRCUIT WIRING (EXCEPT WHERE AC AND MC CABLE IS USED). MINIMUM SIZE WIRE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED AND SHALL BE SIZED TO CONFORM TO NORMAL NEC VOLTAGE DROPS. WIRE SIZES #10 AWG AND SMALLER SHALL BE SOLID, #8 AWG AND LARGER SHALL BE STRANDED.

N. FEEDERS AND ALL WIRING IN MOIST OR WET LOCATIONS UNDERGROUND OR UNDER THE SLAB SHALL BE 600 VOLT CODE TYPE THHN-THWN. BRANCH CIRCUIT WIRING IN DRY LOCATIONS, ABOVE GRADE, IN THE INTERIOR OF THE BUILDING SHALL BE 600 VOLT CODE TYPE THHN-THWN OR XHHW.

ELECTRICAL RISER DIAGRAM

RISER DIAGRAM KEYED WORK NOTES

A. NEW 600A, 120V/208V 3PHASE 4W SERVICE FROM UTILITY COMPANY. E.C. TO CO-ORDINATE WITH LANDLORD/UTILITY COMPANY FOR MORE DETAILS.

B. NEW 600A, 120V/208V 3PHASE METER AND CT CABINET. E.C. TO CO-ORDINATE WITH LANDLORD/UTILITY COMPANY FOR

C. EXACT LOCATION.

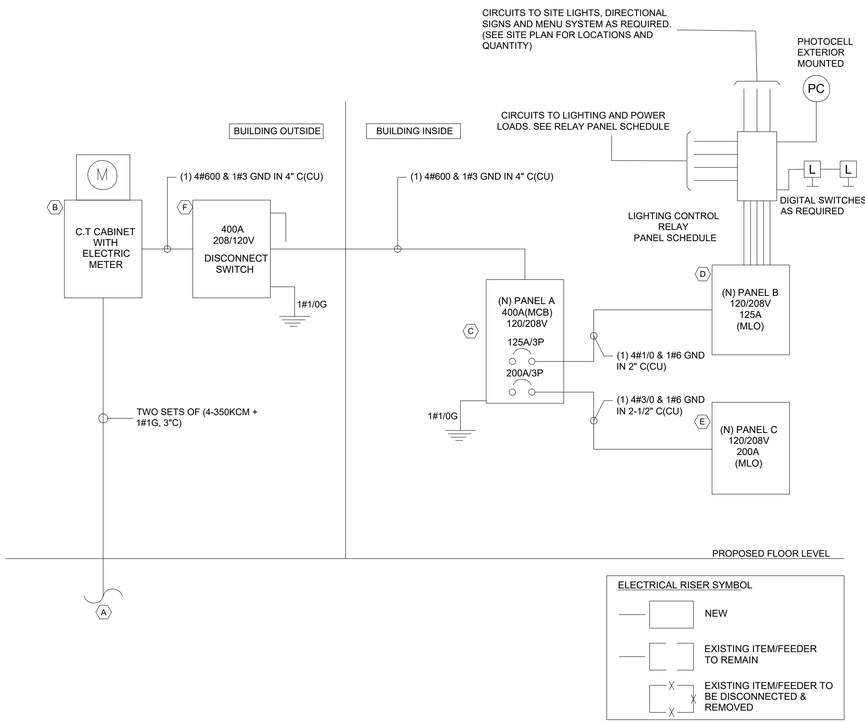
D. NEW 600A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" .COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT/OWNER.

E. NEW 125A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B".COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT/OWNER.

F. NEW 600A 208V120 DISCONNECT SWITCH. E.C. TO CO-ORDINATE EXACT LOCATION WITH ARCHITECT/OWNER

RISER DIAGRAM GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO COMMENCING ANY WORK.



1 ONE LINE DIAGRAM
SCALE: N.T.S.

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SHEET TITLE.
ELECTRICAL SCHEDULES AND ONE LINE DIAGRAM

SHEET NO.
E5

Kolbrook Job No.	1502.236	Consultant Job No.	-

SPACE INTENTIONALLY LEFT BLANK FOR CITY APPROVAL / STAMPS

PLUMBING SYMBOLS

RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)		SQUARE FEET (SQ FT)
	FLOOR DRAIN, AREA DRAIN		FLOOR CLEANOUT
	ROOF DRAIN, OVERFLOW DRAIN		CLEANOUT (CO)
	FLOOR SINK		PIPING RISE OR DROP
	REDUCER		PIPING DOWN
	UNION		PIPING UP
	FLEXIBLE CONNECTOR		BRANCH CONNECTION
	STRAINER		TEE DOWN CONNECTION
	WATER HAMMER ARRESTER BEHIND ACCESS PANEL		PLUGGED OUTLET
	TRAP PRIMER BEHIND ACCESS PANEL		COLD WATER
	PRESSURE GAUGE WITH PET COCK		FILTERED WATER
	THERMOMETER		HOT WATER
	TEMPERATURE/PRESSURE RELIEF VALVE & PRESSURE RELIEF VALVE		HOT WATER RETURN
	AIR RELIEF VALVE		SANITARY
	CHECK VALVE	(E)	EXISTING PIPING
	SHUT-OFF VALVE	GW	GREASE WASTE
	VALVE ON RISER	SD	STORM DRAIN
	BALANCING VALVE	OD	OVERFLOW DRAIN
	VALVE IN YARD BOX		SANITARY VENT
	SOLENOID VALVE (ELECTRIC)	G	NATURAL GAS
	GAS COCK		DIRECTION OF FLOW
	GAS PRESSURE REGULATOR	TP	TRAP PRIMER SUPPLY
	HOSE BIBB		PIPE TO BE DEMOLISHED
	PIPING BREAK	VAC	VACUUM
	POINT OF CONNECTION	AIR	COMPRESSED AIR
M	WATER METER	MED	MEDGAS
L-1	TYPICAL FIXTURE DESIGNATION	XX	KEYNOTES

PLUMBING SHEET INDEX

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3	P3	PLUMBING DW AND V PLAN	1/4" = 1'-0"
4	P4	PLUMBING WATER AND GAS PLAN	1/4" = 1'-0"
5	P5	PLUMBING RISER DIAGRAM	N.T.S.
6	P6	PLUMBING - DETAILS	N.T.S.
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8	P8	PLUMBING - SCHEDULES	N.T.S.
9	P9	WATER FILTRATION SYSTEM	N.T.S.

REFERENCE CODE

CONTACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS

1. 2012 INTERNATIONAL MECHANICAL CODE(IMC).
2. 2012 INTERNATIONAL BUILDING CODE(IBC).
3. 2018 INTERNATIONAL ENERGY CONSERVATION CODE(IECC).
4. 2006 INTERNATIONAL PLUMBING CODE(IPC).
5. 2012 INTERNATIONAL FUEL GAS CODE(IFGC).
6. 2012 INTERNATIONAL FIRE CODE(IFC).
7. INDIANA ELECTRICAL CODE

PLUMBING ABBREVIATIONS

- A -		- K -	
ABV	ABOVE	KW	KILOWATT
AC	AIR CONDITIONING (HVAC)		
ACC	ACCESSIBLE	- L -	
AFF	ABOVE FINISH FLOOR	LAV	LAVATORY
AFSR	AUTOMATIC FIRE SPRINKLER RISER		
AP	ACCESS PANEL	- M -	
AV	ACID VENT	MPG	MEDIUM PRESSURE GAS
AW	ACID WASTE	MTD	MOUNTED
		MS	MOP SINK
- B -			
BEH	BEHIND	- N -	
BEL	BELOW	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
		NO	NORMALLY OPEN
- C -			
CD	CONDENSATE DRAIN	- O -	
CFH	CUBIC FEET PER HOUR	OC	ON CENTER
CFM	CUBIC FEET PER MINUTE	OD	OVERFLOW DRAIN
CLG	CEILING		
CO	CLEANOUT	- P -	
CONT	CONTINUATION	PH	PHASE
COTG	CLEANOUT TO GRADE	PO	PLUGGED OUTLET
CU FT	CUBIC FEET	POC	POINT OF CONNECTION
CW	COLD WATER (DOMESTIC)	PSI	POUNDS PER SQUARE INCH
- D -		- Q -	
DN	DOWN	QTY	QUANTITY
DF	DRINKING FOUNTAIN		
DR	DROP	- R -	
DS	DOWN SPOUT	RD	ROOF DRAIN
DWG	DRAWING	REF	REFRIGRATOR
DW	DISH WASHER	RPM	REVOLUTIONS PER MINUTE
- E -		- S -	
(E)	EXISTING	SAN	SANITARY SEWER
EL	ELEVATION	SD	STORM DRAIN
EQUIP	EQUIPMENT	SK	SINK
ESEW	EMERGENCY SHOWER EYE WASH	SOV	SHUT-OFF VALVE
EWC	ELECTRIC WATER COOLER	SQ	SQUARE
EWH	ELECTRIC WATER HEATER	SS	SERVICE SINK
- F -		- T -	
F	FIRE LINE	TMV	THERMOSTATIC MIXING VALVE
FCO	FLOOR CLEANOUT	TP	TRAP PRIMER
FD	FLOOR DRAIN	TPL	TRAP PRIMER LINE
FFE	FINISHED FLOOR ELEVATION	TYP	TYPICAL
FLR	FLOOR	TW	TEMPERED WATER
FS	FLOOR SINK	TWR	TEMPERED WATER RETURN
FT	FOOT, FEET		
FU	FIXTURE UNIT	- U -	
FV	FLUSH VALVE	UR	URINAL
- G -		- V -	
G	GAS (LOW PRESSURE)	V	VENT
GAL	GALLON	VERT	VERTICAL
GC	GAS COCK	VTR	VENT THROUGH ROOF
GPF	GALLONS PER FLUSH	VB	VACUUM BREAKER
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE		
GPR	GAS PRESSURE REGULATOR	- W -	
GWH	GAS WATER HEATER	W	WASTE
GW	GREASE WASTE	W/	WITH
GI	GREASE WASTE INTERCEPTOR	WC	WATER CLOSET
		WCO	WALL CLEANOUT
- H -		WH	WALL HYDRANT
HB	HOSE BIBB	WHA	WATER HAMMER ARRESTOR
HD	HUB DRAIN		
HP	HORSEPOWER	- Y -	
HW	HOT WATER (DOMESTIC)	YB	YARD BOX
HWR	HOT WATER RETURN (DOMESTIC)		
- I -			
ICW	INDUSTRIAL COLD WATER		
IW	INDIRECT WASTE		
IE	INVERT ELEVATION		
INT	INTEGRAL		

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL PLUMBING CODE(IPC), LOCAL CITY FIRE MARSHAL, LOCAL OFFICE OF THE STATE ARCHITECT, AND LOCAL ADMINISTRATIVE CODES, AND AUTHORITIES HAVING JURISDICTIONS.
2. CONTRACTOR SHALL VERIFY ALL UTILITIES LOCATION, SIZE AND ELEVATIONS WITH CIVIL ENGINEER'S DRAWINGS PRIOR TO START OF WORK.
3. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
4. KEEP ALL PIPING CLEAR FROM LOAD BEARING FOOTINGS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND FINISHES OF ALL PLUMBING FIXTURES.
6. EACH VENT PIPE OR STACK SHALL EXTEND THROUGH ITS FLASHING AND SHALL TERMINATE VERTICALLY NOT LESS THAN 6 INCHES ABOVE THE ROOF NOR LESS THAN 1 FOOT FROM A VERTICAL SURFACE. ABS AND PVC PIPING EXPOSED TO SUNLIGHT SHALL BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINTS. EACH VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR NOT LESS THAN 3 FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT, OR NOT LESS THAN 3 FEET IN EVERY DIRECTION FROM A LOT LINE, ALLEY AND STREET EXCEPTED.
7. VENT PIPE AND FITTINGS SHALL COMPLY WITH THE APPLICABLE STANDARDS.
8. A WATER SUPPLY TO A URINAL SHALL BE PROTECTED BY AN APPROVED-TYPE VACUUM BREAKER OR OTHER APPROVED BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH LOCAL CODE.
9. PROVIDE AND INSTALL ACCESS PANELS AT ALL LOCATION OF WATER HAMMER ARRESTORS. - PANELS TO 12 X 12 OR AS REQUIRED. FINISH SELECTED BY ARCHITECT.
10. CLEANOUTS SHALL BE INSTALLED PER LOCAL PLUMBING CODE. CLEANOUTS LOCATION SHALL BE COORDINATED WITH CLIENT AND ARCHITECT PRIOR TO INSTALLATION. CLEANOUTS SHALL BE ACCESSIBLE.
11. SLOPE OF BUILDING SEWERS SHALL NOT BE LESS THAN 2% UNLESS NOTED OTHERWISE.
12. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED AS REQUIRED BY 2018 INTERNATIONAL ENERGY CONSERVATION CODE(IECC) OF THE BUILDING ENERGY EFFICIENCY STANDARDS. INSULATION SHALL HAVE A FIRE HAZARD CLASSIFICATION 25/50 COMPOSITE RATING.
13. CIRCULATING HOT WATER SYSTEMS SHALL BE EQUIPPED WITH A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMPS WHEN HOT WATER IS NOT REQUIRED (TIME CLOCK).
14. ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE(IECC) REQUIREMENTS AND BE SO LABELED.
15. HOT WATER DELIVERED FROM PUBLIC-USE LAVATORIES SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 120°F (49°C) BY A DEVICE THAT COMPLIES WITH ASSE 1070/ASME A112.1070/CSA B125.70. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR MEETING THIS PROVISION.
16. HANGERS AND ANCHORS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE PIPE AND ITS CONTENTS. PIPING SHALL BE ISOLATED FROM INCOMPATIBLE MATERIALS.
17. COORDINATE WITH ELECTRICAL TRADE PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGES AT EQUIPMENT LOCATIONS.
18. ALL HOSE BIBBS, WALL HYDRANTS AND JANITORIAL SERVICE SINKS SHALL BE EQUIPPED WITH APPROVED, PROPERLY INSTALLED ATMOSPHERIC TYPE VACUUM BREAKER.
19. ALL WATER CONNECTIONS TO HVAC EQUIPMENT SHALL BE PROTECTED BY APPROVED, REDUCED PRESSURE BACKFLOW PREVENTION DEVICES. DEVICES SHALL BE ACCESSIBLE FOR TEST AND AND MAINTENANCE. PROVIDE FUNNEL DRAIN AND INDIRECT WASTE PIPING FOR BACKFLOW DEVICES DISTANT FROM FLOOR SINKS.
20. NATURAL GAS LINES SHALL NOT BE LOCATED UNDER ANY STRUCTURE.
21. DO NOT USE METALLIC GAS LINES TO GROUND ELECTRICAL SYSTEM.
22. PROVIDE COATED 12 GAUGE COPPER WIRE ATTACHED TO POLYETHYLENE GAS YARD PIPING FOR TRACING PURPOSE. TERMINAL WIRES SHALL BE IDENTIFIED IN LABELED ACCESS BOXES.
23. FOR LOCATION OF PIPING SLEEVES AND FLOOR OPENINGS THROUGH STRUCTURAL FLOOR SLABS, REFER TO DETAILS INDICATED IN STRUCTURAL DRAWINGS.
24. CONTRACTOR SHALL PATCH AND REPAIR ALL SURFACE AREAS DAMAGED BY HIS OPERATION.
25. ALL VALVES, UNIONS, ETC. TO BE LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS. PROVIDE ANGLE STOPS FOR ALL PLUMBING FIXTURES AND ASSOCIATED EQUIPMENT.
26. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH THREADED TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
27. ANY DEVIATION FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
28. UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS NO STRUCTURAL MEMBER SHALL BE CUT. NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
29. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACTOR DOCUMENTS AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING OR INSTALLING OF ANY MATERIALS.
30. ALL INTERIOR CONDENSATE PIPING SHALL BE INSULATED WITH CLOSED CELL FOAM INSULATION; WITH FIRE HAZARD CLASSIFICATION 25/50 COMPOSITE RATING.
31. CONTRACTOR SHALL PROVIDE AS-BUILTS, CAD GENERATED AND DRAWN TO THE SAME SCALE THAT CONSTRUCTION DRAWINGS INDICATE.
32. PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO OWNER, FOR A PERIOD OF ONE YEAR FROM DATE OF OWNERS ACCEPTANCE.
33. ALL WORK SHALL BE DONE ACCORDING TO THE APPLICABLE CODE AND CITY REGULATIONS AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION (AHJ).

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SHEET TITLE.

PLUMBING GENERAL NOTES AND SYMBOLS

SHEET NO.

P1

Kolbrook Job No. 1502.236 Consultant Job No. -

DIVISION 15 - PLUMBING SPECIFICATIONS

GENERAL

A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SCOPE.

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION. INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, & SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, & ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

A. MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

B. WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER, WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROJECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE, HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CON- JUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS, REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

B. ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL

RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN THE CONTRACT AND SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED: BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

GENERAL PROVISIONS

1. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM FOR THE BUILDING.

2. OBTAIN WATER, SEWER, GAS TAPS, AND ANY OTHER REQUIRED UTILITIES AND EXTEND SERVICE FROM SAME TO BUILDING AS SHOWN ON DRAWINGS. VISIT THE SITE FOR UNDERSTANDING OF THE WORK TO BE DONE BEFORE SUBMITTING BID.

3. COORDINATE THIS WORK WITH THE WORK OF THE OTHER TRADES ON THE PROJECT. ALL PLUMBING IS TO BE ROUGHED IN WHILE THE BUILDING IS BEING CONSTRUCTED AT SUCH TIMES AS NOT TO DELAY THE GENERAL CONTRACTOR ON THE BUILDING.

4. GENERAL REQUIREMENTS: COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS, CODES, RULES, AND ORDINANCES GOVERNING WORK OF THIS CHARACTER. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.

5. THE LOCATION OF THE PIPING RUNS ARE APPROXIMATE AND THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS, ETC., AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR DETAILS OF THE BUILDING CONSTRUCTION AND THE OTHER MECHANICAL, ELECTRICAL, AND EQUIPMENT FEATURES.

6. COORDINATION AND WORKMANSHIP: SCHEDULE THIS WORK SO THAT IT WILL BE PROPERLY COORDINATED WITH ALL OTHER TRADES. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE FOR THE CLASS OF WORK INVOLVED. WORKMANSHIP SHALL ALLOW THE APPLIANCE TO OPERATE AS INTENDED AND BE INSTALLED TO BEST PROTECT THE PUBLIC AND OPERATORS FROM INJURY OR DAMAGE, AND TO PRESENT A NEAT, PLEASING, AND ORDERLY APPEARANCE.

MATERIALS AND PERFORMANCE

1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE WITHIN FIVE (5) DAYS AFTER THE CONTRACT IS LET.

2. BACKFILLING: PERFORM ALL NECESSARY EXCAVATING AND BACKFILLING REQUIRED FOR THIS INSTALLATION. PREPARE A PROPER BED OF SAND OR GRAVEL OR EQUIVALENT IN ROCK SCREENINGS SO AS TO ELIMINATE SHIMMING AND VOID SPACES UNDER ANY OF THE UTILITY SERVICE PIPES. BENDING OF ANY HARD PIPE WILL NOT BE PERMITTED. WHERE A CHANGE IN DIRECTION IS NECESSARY ON PRESSURE PIPES, "COMPATIBLE" COUPLINGS OR EQUAL SHALL BE USED AND BENDS MAY NOT EXCEED 90 DEGREES. ALL EXCAVATION BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 2000 PSI CONCRETE. OTHER BACKFILL SHALL CONSIST OF 2-3" OF SAND OR ROCK SCREENINGS AND EARTH TO A FINAL LEVEL EQUAL TO ITS ORIGINAL CONDITION. IN THE EVENT THE BACKFILL SHOULD SETTLE BEFORE THE FINAL TOP SURFACE IS APPLIED, APPLY ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO MINIMIZE THE DUST LEVEL WHEN EXCAVATING AND BACKFILLING SO AS TO COMPLY WITH FEDERAL AND STATE E.P.A. REGULATIONS RELATING TO THIS TYPE OF WORK (FUGITIVE DUST).

3. PIPING INSTALLATION: CLEANOUTS MUST BE INSTALLED ON MINIMUM DROP LINES EVEN THOUGH NOT SHOWN ON THE BLUEPRINTS. USE REDUCING FITTINGS IN MAKING REDUCTIONS IN SIZE OF PIPE. REAM ALL PIPE AFTER CUTTING, THEN TURN PIPES ON END AND KNOCK OUT ALL LOOSE DIRT AND SCALE BEFORE INSTALLING. MAKE CHANGES IN HORIZONTAL DIRECTION OF SOIL AND WASTE PIPES WITH LONG RADIUS FITTINGS OR WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS. CONNECT SOIL STACKS AT BASE TO HORIZONTAL RUNS WITH "Y" CONNECTIONS.

A. WATER SUPPLY PIPES TO FIXTURES AND WASTE PIPES FROM FIXTURES SHALL BE CENTERED IN THE PROPER PLACE RELATIVE TO THE CENTER LINE OF THE FIXTURE. NO OFFSETS WILL BE ALLOWED. ALL PIPES SHALL BE RUN MECHANICALLY STRAIGHT AND SQUARE WITH BUILDING LINES, EXCEPT FOR REQUIRED PITCH ON HORIZONTAL LINES, AND ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS. WATER PIPING TO BE ROUTED IN WALLS, UNDER THE FLOOR SLAB, AND ABOVE SUSPENDED CEILINGS AS NOTED. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB, NO MECHANICAL JOINTS SHALL BE MADE UNDER THE SLAB EXCEPT AS LISTED BELOW. WATER PIPING SHALL BE INSTALLED NOT TO EXERT VERTICAL NOR HORIZONTAL STRESSES ON THE SEATING OF UNIONS. UNIONS SHALL BE COPPER TYPE NIBCO #733 OR EQUAL.

B. NO WAX, PUTTY, OR VARNISH WILL BE PERMITTED. CRACKED FITTINGS SHALL BE REMOVED AND REPLACED WITH NEW FITTINGS. MAKE THREADED JOINTS IN BRASS PIPE AND FITTINGS WITH PIPE THREADING TO THE SHOULDER OF THE FITTINGS. NO SLIP JOINTS OR COUPLING JOINTS IN BRASS PIPE WILL BE PERMITTED, EXCEPT ON THE FIXTURE SIDE OF THE TRAP.

C. GAS PIPING FOR ABOVE GROUND INSTALLATIONS: ALL FITTINGS TO BE OIL, THREAD CUTTINGS AND RESIDUALS TO ACCEPT ENAMEL PAINT. ROUGH OR SHARP JOINED WITH TEFLON TAPE SEAL OR OTHER SUITABLE SEAL AND MADE IN CONFORMANCE EXPOSED THREAD SURFACES SHALL BE FILED SMOOTH. TESTING SHALL BE AS OUTLINED WITH THE BEST PRACTICES OF AGA AND NFPA 54. UNIONS SHALL BE CAST BLACK IRON AND INSTALLED IN A MANNER SUCH THAT NO STRESS WILL BE PLACED ON THE MALE-FEMALE SEALING SURFACES. PROPER ALIGNMENT WILL BE MADE AT TIME OF INSTALLATION. ALL JOINTS AND CONNECTIONS SHALL BE THOROUGHLY CLEANED OF

WATER PIPE

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE.

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING; E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL-UPONOR PEX, NO JOINTS PERMITTED UNDER GRADE.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.

A. MATERIALS - UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER.

B. MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN.

C. MATERIALS - PEX PIPING, IF APPROVED BY LOCAL CODE. (NOTE: WHEN PEX IS USED, CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING PROPER INSTALLATION AND BALANCING FOR HOT WATER RECIRCULATION WHEN APPLICABLE).

D. INSULATION: INSULATION FOR COLD WATER PIPING SHALL BE 1/2". HOT WATER & HOT WATER RETURN MUST BE AT LEAST THE THICKNESS OF THE PIPE DIAMETER. ACCEPTABLE MATERIALS: ARMAFLEX UL LABELED OR FIBERGLASS. INSULATE ALL PIPING AND FITTINGS.

GAS PIPE

A. GAS PIPING ABOVE GROUND: ASTM A53, SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS. INSTALL MOISTURE TRAPS ON HVAC UNITS AND KITCHEN EQUIPMENT.
B. GAS PIPING COMPOUND AT JOINTS; IN COMPLIANCE WITH NFPA BULLETIN #54 AND LOCAL APPLICABLE CODES AND SUITABLE FOR NATURAL GAS SERVICE.
C. PRIME AND PAINT EXPOSED PIPING: ONLY WHEN REQUIRED BY LOCAL CODES.

WASTE PIPE

A. INSTALL HORIZONTAL DRAIN AND WASTE PIPES WITH MIN. 1/8"/FT. SLOPE FOR 3" OR GREATER 1/4"/FT FOR 2" AND LESS. (NOTE: CERTAIN JURISDICTIONS MANDATE 1/4" REGARDLESS OF PIPE SIZE, VERY IF WITH LOCAL PLUMBING AUTHORITY IF NOT SURE.)

B. MATERIALS: PVC SCH. 40, WITH CHEMICALLY FUSED JOINTS OR CAST IRON (HUB TYPE WITH NEOPRENE JOINTS -WITH STAINLESS STEEL CONNECTORS WHEN PVC IS NOT ALLOWED PER LOCAL CODE.

C. FOR CAST IRON BELOW GRADE OPTION:

1. COMPRESSION GASKET JOINTS - SANITARY PIPE & STORM PIPE: 1. JOINT SHALL BE ONE PIECE DOUBLE SEAL COMPRESSION TYPE GASKET MADE SPECIFICALLY FOR JOINING CAST IRON SOIL PIPE. GASKET SHALL BE NEOPRENE, PERMITTING JOINT TO FLEX AS MUCH AS 5 DEGREES WITHOUT LOSS OF SEAL. GASKET SHALL BE EXTRA HEAVY WEIGHT CLASS, CONFORMING TO ASTM C-564.

2. LEAD AND OAKUM JOINTS - SANITARY PIPE AND STORM PIPE: 1. PACK JOINT WITH OAKUM

MADE OF VEGETABLE FIBER, COTTON, OR HEMP. POUR JOINT WITH MOLTEN LEAD UP TO TOP OF HUB. ENSURE LEAK-FREE JOINTS BY WORKING JOINT WITH INSIDE AND OUTSIDE CAULKING IRONS.

TESTS & CLOSEOUT PROCEDURES

A. DRAINAGE AND VENT PIPING DRAINAGE AND VENT PIPING SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE INSTALLED BY CAPPING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER AND ALLOWING IT TO STAND THUS FILLED NOT LESS THAN ONE (1) HOUR. INSPECT WATER LEVEL TO DETERMINE IF PIPING IS TIGHT.

B. PIPING - THE WATER SUPPLY PIPING LINES SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE CONNECTED BY FILLING THE ENTIRE SYSTEM WITH POTABLE WATER AND APPLYING HYDROSTATIC PRESSURE OF 100 PSI AND ALLOWING TO STAND FOR NOT LESS THAN FOUR (4) HOURS AT THIS PRESSURE TO PROVE PLUMBING INTEGRITY.

C. GAS PIPING - IN LIEU OF LOCAL REQUIREMENTS, GAS PIPING SHALL BE FILLED WITH COMPRESSED AIR TO 150 PSI AND HELD FOR A PERIOD OF FOUR (4) HOURS. EACH JOINT SHALL BE CHECKED BY LIQUID SOAP OR SPECIAL LIQUID CHEMICAL FOR LEAKS. NOTE: REMOVE ALL GAS VALVES AND PROTECT FROM DAMAGE BEFORE TESTING SYSTEM.
D. DISINFECTION OF POTABLE WATER SYSTEM: UPON COMPLETION OF INSTALLATION DISINFECT THE WATER SYSTEM BY FILLING IT WITH SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW IT TO STAND FOR NOT LESS THAN SIX (6) HOURS BEFORE FLUSHING THOROUGHLY AND RETURNING TO SERVICE. FURNISH CLEAN WATER SAMPLES TO THE LOCAL AUTHORITY FOR TESTING AFTER THE LINES HAVE BEEN DISINFECTED. THIS PROCEDURE TO BE IN ACCORDANCE WITH STATE PLUMBING CODE.

E. CLEANUP: CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY BEFORE FINAL INSPECTION, LEAVING ALL READY FOR USE.

F. GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. DEFECTIVE WORK AND ALL DAMAGES CAUSED THEREBY WHICH MAY OCCUR DURING THE TERM OF THE AFOREMENTIONED GUARANTEE WILL BE REPAIRED AND/OR REPLACED AT NO EXPENSE TO THE OWNER.

G. OWNER'S MANUAL: PROVIDE THE OWNER, AT THE COMPLETION OF THIS CONTRACT, WITH AN "OWNER'S MANUAL" SO LABELED. THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTONS OR EQUIPMENT HOUSINGS.

FIRE STOPPING

WHEN REQUIRED BY LOCAL CODES OR ORDINANCES. CONTRACTOR SHALL BE

REPSONSIBLE FOR THE FOLLOWING:

1.1 SYSTEM DESCRIPTION

A. SPECIFIED FIRESTOPPING SYSTEMS ARE BASED ON A SOLID SEALANT ONLY, OR COMBINATIONS OF SOLID SEALANT, FOAM SEALANT, AND REFRACTORY FIBERS OF THICKNESS REQUIRED TO ATTAIN HOUR RATINGS.

B. SYSTEMS SHALL:

1. PROVIDE A FLEXIBLE SEAL TO PREVENT PASSAGE OF FIRE, SMOKE, TOXIC GASES AND WATER THROUGH OPENINGS, AND PREVENT TRANSMISSION OF SOUND AND VIBRATION FROM THE PENETRATING ELEMENT TO THE STRUCTURE.
2. PROVIDE HOUR RATINGS INDICATED AND IN ACCORDANCE WITH ASTM E 814 OR UL 1479.

C. REGULATORY REQUIREMENTS:

1. PRODUCTS SHALL BE 100% ASBESTOS AND PCB FREE.

1.5 PROJECT CONDITIONS

D. EXISTING CONDITIONS: VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. CORRECT UNSATISFACTORY CONDITIONS BEFORE PROCEEDING. PROCEED WITH INSTALLATION ONLY AFTER PENETRATIONS OF SUBSTRATES HAVE BEEN COMPLETED AND SUPPORTING BRACKETS INSTALLED.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. MANUFACTURERS: 3M, HILTI, NELSON, OR UL LISTED EQUALS.

PART 3 - EXECUTION

3.1 CONDITION OF SURFACES

A. UNLESS OTHERWISE PERMITTED BY MANUFACTURER, DO NOT APPLY FIRESTOPPING MATERIALS TO POLYCARBONATES; MATERIALS THAT BLEED OILS, PLASTICIZERS OR SOLVENTS; ORGANO-METALLIC COMPOUNDS; SILICONE RUBBER CONTAINING ORGANO-TIN COMPOUND; SULFUR, POLYSULFIDES, POLYSULFONES AND OTHER SULFUR CONTAINING MATERIALS; AMINES, URETHANES AND AMINE-CONTAINING MATERIALS; AND UNSATURATED HYDROCARBON PLASTICIZERS.

B. 3.2 PREPARATION

C. THOROUGHLY CLEAN SURFACES AND SPACES TO RECEIVE FIRESTOPPING MATERIALS, REMOVING FOREIGN MATTER SUCH AS DIRT, DUST, MOISTURE, RUST, DO NOT USE CLEANING SOLVENTS WHICH LEAVE RESIDUE. WIPE JOINTS FREE OF SOLVENT USING CLEAN, DRY WHITE CLOTHS OR WHITE LINTLESS PAPER. DO NOT USE ALCOHOL OR ALCOHOL BASED MATERIALS. DO NOT PERMIT SOLVENT TO AIR DRY. DO NOT USE DETERGENTS OR SOAP AND WATER SOLUTIONS FOR CLEANING UNLESS SPECIFICALLY RECOMMENDED BY THE SEALANT MANUFACTURER.

D. FOLLOW MANUFACTURER'S DIRECTIONS FOR SPECIFIC PRODUCTS AND SURFACES.

3.4 INSTALLATION

A. INSTALL SYSTEMS IN ACCORDANCE WITH UL SYSTEMS, AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS, USING APPROVED EQUIPMENT AND SO AS TO ACHIEVE THE REQUIRED FIRE RATING.

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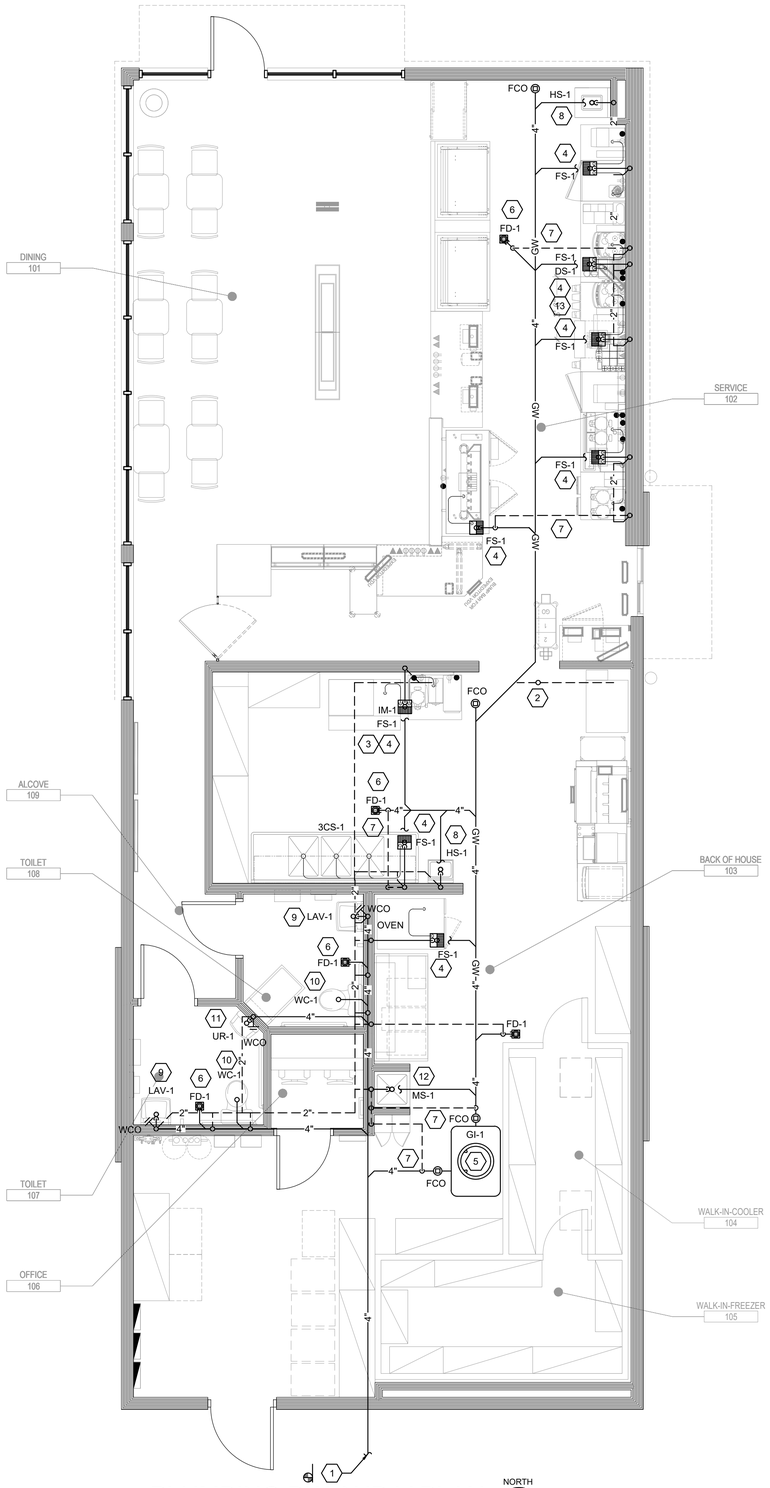
PLUMBING SPECIFICATION

SHEET NO.

P2

Kolbrook Job No.	1502.236	Consultant Job No.	-

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1 PLUMBING DW AND V PLAN

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

NORTH

GREASE INTERCEPTOR CALCULATIONS

Project Name: DUNKIN' - NORTH VERNOM, IN

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
3 Compartment Sink	3 Compartment Sink	21" x 21" x 14" (3)	1	18,522	30.07 GPM
Dump Sink One Bowl	Dump Sink One Bowl	10" x 14" x 6"	1	840	1.36 GPM
Dump Sink One Bowl	Dump Sink One Bowl	10" x 14" x 6"	1	840	1.36 GPM
Floor Drain	Floor Drain	N/A	2	N/A	0 GPM
Floor Sink	Floor Sink	N/A	8	N/A	0 GPM
Hand Sink	Hand Sink	10" x 14" x 5"	2	1,400	2.28 GPM
Mop Basin	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
Total					44.42 GPM

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 900

Grease production value: 0.005 lbs per serving (Donut Shop: Low / No flatware)

Days between pump-outs: 90 days

900 x 0.005 x 90 = 405 lbs of FOG

SCHIER MODEL	Description: GREASE INTERCEPTOR 75 GPM, 4" PLAIN/FPT CONNECTIONS, H-20 RATED CAST IRON COVER
GB-75	Dimensions: Length: 47", Width: 33", Height: 39.75" Flow Rate/Grease Capacity: 75 GPM / 861 lbs Liquid Capacity: 125 gal

Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.

EXISTING SANITARY SEWER CONDITIONS NOTE:

SANITARY SEWER PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS. PLUMBING CONTRACTOR (PC) SHALL COORDINATE WITH EXISTING FIELD CONDITIONS VIA A SANITARY VIDEO SURVEY/SCOPE TO DETERMINE THE EXACT SIZE, LOCATION, INVERT ELEVATIONS AT THE PROPOSED CONNECTIONS TO EXISTING PLUMBING SERVICES PRIOR TO BID/CONSTRUCTION. IF ACTUAL FIELD FINDINGS VARY SIGNIFICANTLY FROMTHOSE AS INDICATED ON PLANS, PC SHALL NOTIFY GENERAL CONTRACTOR (GC) IMMEDIATELY PRIOR TO STARTING ANY WORK. THE OWNER SHALL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS INCURRED BY FAILED COORDINATION AFTER CONSTRUCTION HAS BEGUN. PC SHALL BE RESPONSIBLE FOR UTILIZING A REPUTABLE UTILITY LOCATING SERVICE PRIOR TO ANY EXCAVATION.

NOTE:

VENTING ABOVE RIM HEIGHT, 6" MINIMUM

CONDENSATE OR SIMILAR LIQUID WASTES SHALL BE DRAINED INDIRECTLY TO A FLOOR SINK WITH A MINIMUM 1 INCH AIR GAP FROM THE LIP OF THE BASIN.

NOTE:

THE LOCATION OF THE GREASE TRAP AS SHOWN IS FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS DURING THE BIDDING PHASE OF THIS PROJECT AND ASSIGN ALL APPLICABLE COST. WHEN NOT INDICATED, VERIFY WITH LOCALITY IF ADDITIONAL SAMPLING PORT OR SAMPLE TEE IS REQUIREMENT.

PLUMBING GENERAL NOTES

ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2006 INTERNATIONAL PLUMBING CODE(IPC). ALL PIPE, FITTINGS, TRAPS, FIXTURES, MATERIALS, AND DEVICES SHALL BE LISTED OR LABELED BY A THIRD-PARTY LISTING AGENCY AND COMPLY WITH THE APPLICABLE STANDARDS REFERENCED IN THE CODE.

ALL SANITARY DRAINAGE PIPE MUST BE SLOPED AT 1/4" PER FOOT MINIMUM.

FIXTURE VENTS MUST RISE WITHIN 45 DEGREES FROM THE VERTICAL AT LEAST 6" ABOVE THE FIXTURE FLOOD LEVEL BEFORE OFFSETTING HORIZONTALLY OR CONNECTING TO A BRANCH VENT.

SOIL, DRAIN, OR OTHER SUCH PIPES INSTALLED OVER AREAS WHERE FOOD OR DRINK WILL BE STORED, PREPARED, OR DISPLAYED MUST MEET , SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF JOISTS NECESSARY AND CONNECTED TO THE NEAREST ADEQUATELY SIZED VERTICAL STACK. PIPING SUBJECT TO OPERATION AT TEMPERATURES THAT WILL FORM CONDENSATION ON THE EXTERIOR OF THE PIPE SHALL BE THERMALLY INSULATED. WHERE PIPES ARE INSTALLED IN CEILINGS ABOVE SUCH AREAS, THE CEILING SHALL BE THE REMOVABLE TYPE, OR SHALL BE PROVIDED WITH ACCESS PANELS TO FORM A READY ACCESS FOR INSPECTION OF PIPING.

INDIRECT WASTE PIPES IN FOOD AND BEVERAGE ESTABLISHMENTS:
- A) ICE MAKER DRAINS MUST BE THE LARGER OF THE DRAIN OUTLET OR 3/4".
- B) FOOD-HANDLING FIXTURES SHALL BE TRAPPED, AND PIPED SEPARATELY DISCHARGING BY AN AIR GAP. THE DRAIN MUST BE THE LARGER OF THE EQUIPMENT OUTLET OR 3/4".
- C) ALL OTHER INDIRECT WASTES MUST BE AT LEAST 1" IN SIZE.
- D) EXCEPT FOR REFRIGERATION COILS AND ICE MAKERS, INDIRECT WASTE LENGTH MAY NOT EXCEED 15'.

PLUMBING FIXTURES RECEIVING INDIRECT DISCHARGE MUST BE APPROVED BY THE ADMINISTRATIVE AUTHORITY AND HAVE SHAPE AND CAPACITY TO PREVENT SPLASHING OR FLOODING.

TRAP PRIMERS MUST HAVE AN ASSE 1013 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER; AN ASSE 1020 PRESSURE VACUUM BREAKER; AN ASSE 1056 SPILL-PROOF VACUUM BREAKER; OR AN ASSE 1001 ATMOSPHERIC VACUUM BREAKER WITH NO SHUTOFF VALVE DOWNSTREAM. TRAP PRIMERS WITH INTEGRAL BACKFLOW PREVENTION ARE PERMITTED ONLY WHEN EQUIPPED WITH ONE OF THE ABOVE-LISTED BACKFLOW PREVENTERS.

HYDROMECHANICAL GREASE INTERCEPTORS MAY SERVE ONLY FIXTURES DISCHARGING GREASY WASTE. NO FOOD WASTE DISPOSER MAY BE CONNECTED UNLESS THE INTERCEPTOR IS DESIGNED TO RECEIVE FOOD WASTE. DISHWASHER CONNECTIONS ARE PROHIBITED. THE INTERCEPTOR MUST COMPLY WITH ASME A112.14.3, ASME A112.14.4, CSA B481, PDI G-101, OR PDI G-102 AND BE SO MARKED ON A PERMANENT IDENTIFICATION LABEL. THE INTERCEPTOR AND FLOW CONTROL MUST BE READILY ACCESSIBLE, A 15-MINUTE MANOMETER TEST AT 1-INCH OF WATER COLUMN IS REQUIRED AND MUST BE MAINTAINED IN EFFICIENT OPERATING CONDITION.

EACH HORIZONTAL DRAIN BRANCH ON OR BELOW THE FLOOR LEVEL OF THE BUILDING DRAIN SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL WITH THE FOLLOWING EXCEPTIONS:
- A) A CLEANOUT IS NOT REQUIRED IF THE BRANCH IS LESS THAN FIVE FEET UNLESS IT SERVES SINKS OR URINALs.
- B) A CLEANOUT IS NOT REQUIRED ON A DRAIN THAT IS 72 DEGREES OR LESS FROM THE VERTICAL UNLESS IT SERVES KITCHEN SINKS OR URINALS.

A CLEANOUT MUST BE PROVIDED FOR EACH TOTAL CHANGE OF DIRECTION EXCEEDING 135 DEGREES IN ANY HORIZONTAL DRAINAGE LINE. A CLEANOUT SHOULD BE PROVIDED WHERE NEW WASTE AND VENT PIPING CONNECTS WITH EXISTING FOR TESTING.

CAST IRON DRAIN, WASTE, AND VENT PIPE MUST COMPLY WITH ASTM A74, CISPI 301, OR ASTM A888. HUBLESS PIPE AND FITTINGS SHALL BE MARKED WITH COUNTRY OF ORIGIN, IDENTIFICATION OF THE ORIGINAL MANUFACTURER, AND AS REQUIRED BY REFERENCED STANDARDS.

PVC DRAIN, WASTE, AND VENT SYSTEMS:
- A) PIPE MUST MEET ASTM D1785, D2665, F891, F1488, OR F1760.
- B) JOINTS MUST BE MECHANICAL OR PUSH-ON WITH AN ASTM D3212 ELASTOMERIC SEAL, OR SOLVENT WELDED USING ASTM F656 PURPLE PRIMER AND ASTM D2564 SOLVENT CEMENT. SCHEDULE 80 PIPE MAY BE THREADED.
- C) SUPPORT ABOVE-GROUND HORIZONTAL PIPES AT EACH HORIZONTAL BRANCH CONNECTION AND AT LEAST EVERY 4 FEET. ABOVE-GROUND RUNS MUST USE EXPANSION JOINTS EVERY 30 FEET.

PLUMBING KEY NOTES

1. CONNECT 4"Ø NEW SANITARY PIPE TO CITY MAIN SEWER. CONTRACTOR SHALL VERIFY THE LOCATION, POINT OF CONNECTION (POC), INVERT ELEVATION, AND LOCATION OF THE CITY MAIN IN THE FIELD PRIOR TO BID/CONSTRUCTION. WHEN EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE INDICATED ON THE PLANS, STOP AND CONTACT ARCHITECT/ENGINEER IMMEDIATELY FOR DIRECTION FOR CHANGES BEYOND THE CONSTRUCTION ISSUE. THE OWNER/ENGINEER/ARCHITECT SHALL NOT BE RESPONSIBLE. THIS SHALL INCLUDE LOCATING UTILITIES WHEN REQUIRED.
2. CONNECT TO 4" VENT THROUGH ROOF FROM 3" VENT PIPING.VERIFY EXACT SIZE AND LOCATION IN FIELD PRIOR TO WORK.
3. ROUTE DRAINS AND DRAIN FROM ICE MACHINE TO FLOOR SINK. DRAIN FROM ICE MACHINE AND ICE BIN MUST BE SEPARATELY ROUTED TO INDIRECTLY DISCHARGE TO FLOOR SINK.
4. 3" DRAIN TO FLOOR SINK.
5. PROVIDE NEW SCHIER GB-75 GREASE INTERCEPTOR. COORDINATE WITH LANDLORD AND LOCAL AUTHORITIES FOR EXACT LOCATION. VERIFY WITH LOCAL AUTHORITIES ON EXACT TYPE, SIZE, AND INSTALLATION OF GREASE INTERCEPTOR. PROVIDE WITH H-20 TRAFFIC RATED LIDS WHEN LOCATED IN A TRAFFIC ZONE. PROVIDE ALTERNATE BID FOR A DUPLEX SEWAGE EJECTOR LIFT STATION IF INVERT ELEVATION IS NOT ACHIEVABLE FOR GRAVITY DRAINAGE.
6. 2" DRAIN TO FLOOR DRAIN..
7. 2" VENT PIPING BELOW GRADE. FLAT VENTING IS STRICTLY PROHIBITED AND ALL VENTING SHALL SLOPE AT A MINIMUM OF 1/4" PER FOOT BACK TO THE DRAIN PER CODE.
8. 2" DRAIN TO HAND SINK.
9. 2" DRAIN TO LAVATORY.
10. 4" DRAIN TO WATER CLOSET.
11. 4" DRAIN TO URINAL.
12. 2" DRAIN TO MOP SINK.
13. 3" INDIRECT DRAIN TO DUMP SINK.

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DUNKIN'

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CHARLESTOWN, IN 47111

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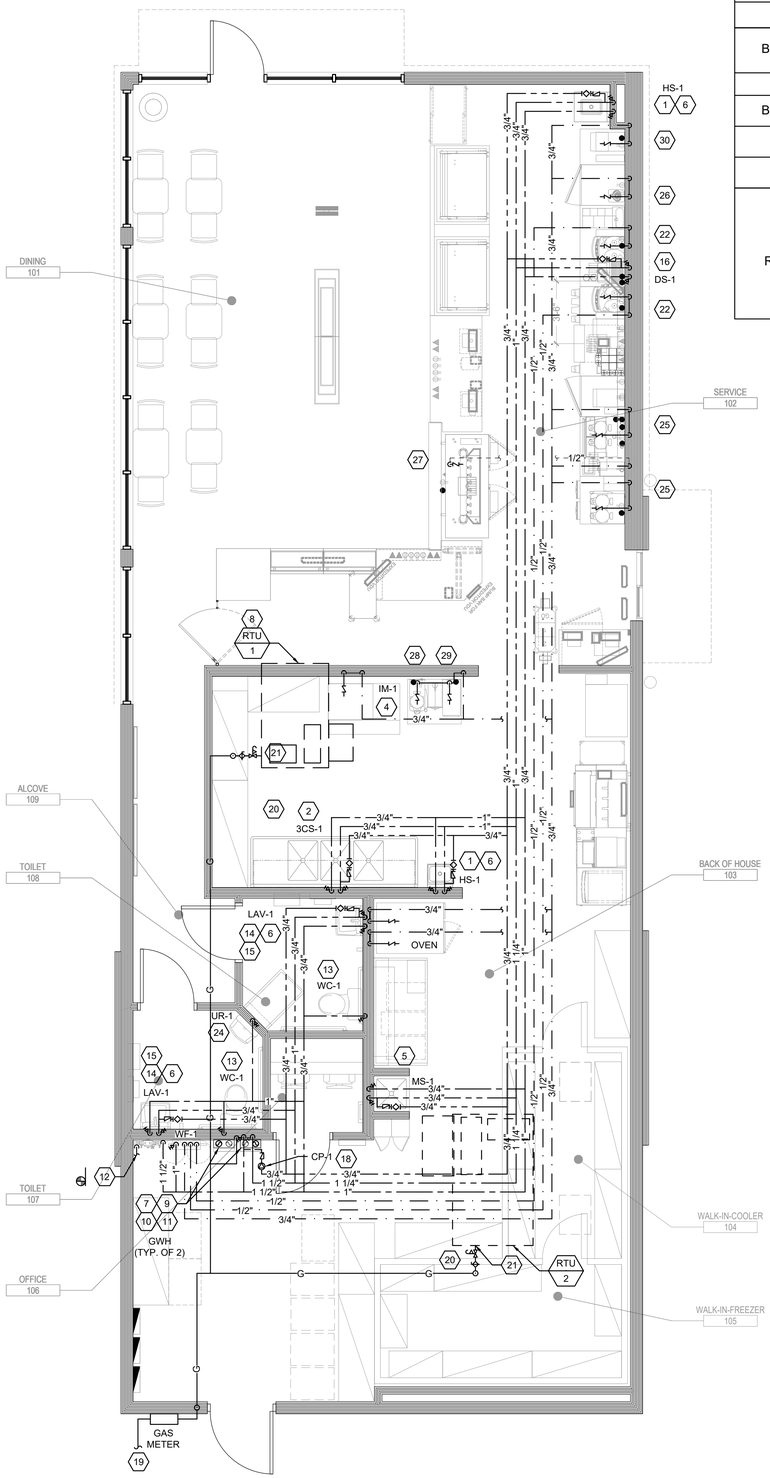
PLUMBING DW AND V PLAN

SHEET NO.

P3

Kolbrook Job No.	1502.236	Consultant Job No.	-

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1 PLUMBING WATER AND GAS PLAN
SCALE: 1/4" = 1'-0"

NORTH

GAS LOAD SUMMARY

SYSTEM	DESIGNATION	EQUIPMENT	MBH
BUILDING HEATING	RTU-1	ROOF TOP UNIT	130
	RTU-2	ROOF TOP UNIT	150
		SUB-TOTAL	280
BUILDING HEATING	GWH-1 (2)	WATER HEATER (2)	400
		SUB-TOTAL	400
TOTAL NATURAL GAS CONNECTED LOAD			680
GAS METER REQUIREMENTS	MBH CAPACITY		680
	TOTAL DEVELOPED LENGTH INCLUDING EQUIVALENT PIPE LENGTH FOR FITTING AND VALVE FRICTION LOSSES TO GAS METER.		50 FT X 1.2 = 60 FT
	CONSULT GAS UTILITY COMPANY FOR REGULATOR RATING		
	INCOMING GAS SERVICE, PRESSURE REGULATOR, AND METER BY GAS UTILITY COMPANY TO DELIVER INDICATED GAS FLOW RATE @ 2.0 PSI DOWNSTREAM OF PRESSURE REGULATOR & METER.		

BACK FLOW PREVENTER ASSEMBLY REQUIREMENTS

TYPE OF EQUIPMENT ON SYSTEM	METHOD OF CROSS CONNECTION CONTROL	MANUFACTURE AND MODEL NUMBER	REMARKS
CARBONATOR SODA SYSTEM	ATMOSPHERIC CHECK VALVE	WATTS SD3LF ASSE 1022/1024 CERT.	STAINLESS STEEL BODY WITH QUARTER TURN VALVE SS STRAINER.
ICE MACHINE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-009-QT-S	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.
TEA MACHINE	DOUBLE CHECK VALVE ASSEMBLY	WATTS SD3LF ASSE 1022/1024 CERT.	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.
WATER SERVICE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-919-QT	LEAD FREE CAST COPPER WITH QUATER TURN

1. CONTRACTOR SHALL PROVIDE INDIVIDUAL BACKFLOW PREVENTERS FOR EACH PIECE OF EQUIPMENT.
2. EACH BACKFLOW PREVENTER MUST HAVE TESTING PORTS.
3. BRONZE BODIED BACKFLOW PREVENTERS ARE PERMISSABLE IF ALLOWED BY LOCAL CODES.

EXISTING WATER SERVICE CONDITIONS NOTE:

WATER PRESSURE IS SHOWN AS DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY EXISTING WATER PRESSURE IN FIELD PRIOR TO ANY WORK AND PIPING ROUGH IN. IF DISCOVERED ON SITE THAT EXISTING WATER PRESSURE IS LESS THAN 65 PSI, CONTACT ENGINEER IMMEDIATELY FOR PIPING DESIGN CHANGES. IF PRESSURE IS GREATER THAN 80 PSI PROVIDE PRESSURE REDUCING VALVE AND REDUCE DOWN TO 70 PSI. CONTACT ENGINEER IMMEDIATELY WITH FINDINGS IF LOW PRESSURE (BELOW 40 PSI) EXISTS FOR PIPING DESIGN CHANGES.

PRIOR TO WORK VERIFY INCOMING WATER QUALITY TO SPACE. WHEN INCOMING WATER IS ABOVE 3.5 GRAINS PER GALLON (60 PARTS PER MILLION) SCALE BUILD-UP WILL FORM INSIDE THE PLUMBING SYSTEM CAUSING DAMAGE TO SYSTEM COMPONENTS AND COPPER PIPE. TO AVOID DAMAGE DUE TO SCALE BUILD-UP, EITHER A WATER SOFTENER OR ANTI-SCALE DEVICE SHOULD BE INSTALLED AT POINT-OF-ENTRY. APPLICATIONS WHERE THERE IS A CONCERN FOR WATER SPOTS ON GLASS SHOWER DOORS, GLASS DISHES, VEHICLES IN CARWASHES, ETC., AND/OR THE EFFECTS OF HARD WATER ON HUMAN SKIN, A WATER SOFTENER SHOULD BE USED INSTEAD OF AN ANTI-SCALE DEVICE. ANTI-SCALE DEVICES REDUCE THE FORMATION OF SCALE IN A PLUMBING SYSTEM BUT DO NOT REMOVE THE CALCIUM AND MAGNESIUM FROM THE WATER, WHICH WILL REMAIN ONCE THE WATER HAS EVAPORATE LEAVING WATER SPOTS AND/OR DRYING OUT HUMAN SKIN. WATER SOFTENERS REMOVE CALCIUM AND MAGNESIUM FROM THE WATER BUT REQUIRE ROUTINE REFILLING OF SALT LEVELS IN THE BRINE TANK.

PLUMBING GENERAL NOTES

BEVERAGE DISPENSERS, CARBONATED BEVERAGE MACHINES, AND COFFEE MAKERS MUST BE SUPPLIED THROUGH AN AIR GAP OR AN ASSE 1022 BACKFLOW PREVENTER WITH ACCESS AND CLEARANCE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NO COPPER TUBING MAY BE INSTALLED DOWNSTREAM OF THE BACKFLOW PREVENTER SERVING A POST-MIX CARBONATOR TO PRECLUDE COPPER POISONING. WATER SUPPLY CONNECTIONS TO FIXTURES OR EQUIPMENT WHICH HAVE INLETS BELOW THE SPILL LINE MUST BE PROVIDED WITH AN APPROVED BACKFLOW PREVENTER.

A HOSE THREAD WATER OUTLET WITHOUT LISTED INTEGRAL BACKFLOW PREVENTION MUST BE PROVIDED WITH AN ASSE 1052 NON-REMOVABLE HOSE BIBB-TYPE BACKFLOW PREVENTER; AN ASSE 1011 NON-REMOVABLE HOSE BIBB TYPE VACUUM BREAKER; OR AN ASSE 1001 ATMOSPHERIC VACUUM BREAKER ON THE DISCHARGE SIDE OF THE LAST CONTROL VALVE AT LEAST 6 INCHES ABOVE THE HIGHEST POINT OF USAGE.

VALVES SHOULD BE INSTALLED PERMITTING THE WATER SUPPLY TO EACH INDIVIDUAL FIXTURE TO BE SHUT OFF WITHOUT DISRUPTING ANY OTHER PORTION OF THE BUILDING. AN ACCESSIBLE CONTROL VALVE SHALL BE INSTALLED AHEAD OF EACH SLIP JOINT CONNECTION AT A PLUMBING FIXTURE.

THE INSTALLATION OF REDUCED PRESSURE PRINCIPLE ASSEMBLIES, DOUBLE CHECK VALVE ASSEMBLIES, PRESSURE VACUUM BREAKERS, OR SPILL-PROOF VACUUM BREAKERS IS PERMITTED ONLY WHEN A TESTING AND INSPECTION PROGRAM ACCEPTABLE TO THE ADMINISTRATIVE AUTHORITY IS PROVIDED. THE ADMINISTRATIVE AUTHORITY MUST BE NOTIFIED PRIOR TO INSTALLATION AND THE WATER PURVEYOR WITHIN 30 DAYS OF INSTALLATION. DEVICES MUST BE TESTED UPON INITIAL INSTALLATION AND NOT LESS THAN ANNUALLY, AND RECORDS MUST BE KEPT. INSTALLATIONS MUST BE AT LEAST 12 INCHES AND NOT MORE THAN 5 FEET ABOVE THE FINISHED FLOOR OR GROUND LEVEL UNLESS A PERMANENT PLATFORM FOR ACCESS IS PROVIDED. A BACKFLOW PREVENTION FACT SHEET

EQUIPMENT USED FOR HEATING WATER OR STORING HOT WATER SHALL BE PROTECTED BY APPROVED SAFETY DEVICES IN ACCORDANCE WITH CODES. DISCHARGE PIPING SHALL BE AN APPROVED TEMPERATURE-RATED MATERIAL THE SAME SIZE AS THE VALVE OUTLET TERMINATING BY AIR GAP WITHIN 18 INCHES OF THE FLOOR OR A SAFE PLACE OF DISPOSAL. WATER HEATERS MUST BE ACCESSIBLE WITH SUFFICIENT CLEARANCE FOR MAINTENANCE AND REPAIR.

COPPER WATER DISTRIBUTION PIPE MUST MEET ASTM B42, B43, B75, B88, B135, B251, B302, OR B447. PUSH-FIT FITTINGS MUST COMPLY WITH ASSE 1061. PRESS-CONNECT FITTINGS MUST MEET ASME B16.51. THESE FITTINGS MUST BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS .

CROSS-LINK POLYETHYLENE (PEX) WATER DISTRIBUTION SYSTEMS: A. THE TUBING MUST COMPLY WITH ASTM F876, ASTM F877, OR CSA B137.5. B. ASTM F876 TUBING MUST BE MARKED WITH THE STANDARD OF THE FITTINGS TO BE USED. C. THE FITTINGS MUST BE MARKED WITH ASSE 1061, ASTM F877, ASTM F1807, ASTM F1960, ASTM F1961, ASTM F2080, ASTM F2159, ASTM F2735, OR CSA B137.5.

ALL MATERIALS USED IN POTABLE WATER SYSTEMS MUST MEET THE REQUIREMENTS OF NSF 61. PIPE AND FITTINGS WITH LEAD CONTENT MUST NOT EXCEED 0.25 PERCENT LEAD IN THE WETTED SURFACE MATERIAL. SOLDER AND FLUX SHALL CONTAIN LESS THAN 0.2 PERCENT LEAD. JOINTS MUST USE ASTM B813 NON-CORROSIVE NON-TOXIC PASTE-TYPE FLUX.

PIPE HANGERS AND SUPPORTS SHALL COMPLY WITH LOCAL STANDARD CODES.

THE PLUMBING SYSTEM SHALL BE TESTED . THE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED.

PLUMBING KEY NOTES

1. 1/2" HOT AND COLD WATER LINES FOR S/S HAND SINK, PROVIDE CONNECTION AND BACKFLOW PREVENTER AS REQUIRED IF ONE IS NOT INTEGRAL TO THE ECOLAB.
2. 3-COMPARTMENT SINK AND FAUCETS PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR.
3. NOT USED.
4. 1/2" FILTER WATER LINE TO ICE MACHINE, PROVIDE BACKFLOW PREVENTER.
5. 3/4" (140°F) HOT AND COLD WATER TO MOP SINK.
6. THERMOSTATIC MIXING VALVE (MV-1) SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR. SET WATER TEMPERATURE FOR 110°F MAXIMUM.
7. 3" PVC INTAKE PIPE THROUGH ROOF FOR WATER HEATER. REFER TO DETAIL 1 SHEET P6. INSTALL PER MANUFACTURERS RECOMMENDATION.
8. ROUTE 1" A/C CONDENSATE DRAIN CONDUIT TO DISCHARGE INTO ROOF GUTTER/DRAIN.
9. 1" GAS DOWN TO GWH.
10. 5" CPVC OR PVDF FLUE PIPE THROUGH ROOF FOR WATER HEATER, REFER TO DETAIL NO. 1 SHEET P6, OFFSET FOR MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKE. MOUNT AS HIGH AS POSSIBLE.
11. GAS FIRED WATER HEATERS, SEE WATER HEATER DETAIL 1 REFERENCE SHEET P6. SET WATER TEMPERATURE FOR 140°F MAXIMUM.
12. CONNECT 1 1/2"Ø NEW COLD WATER PIPE TO CITY MAIN DOMESTIC WATER. CONTRACTOR SHALL VERIFY THE LOCATION, POINT OF CONNECTION (POC), INVERT ELEVATION, AND LOCATION OF THE CITY MAIN IN THE FIELD PRIOR TO BID/CONSTRUCTION. WHEN EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE INDICATED ON THE PLANS, STOP AND CONTACT ARCHITECT/ENGINEER IMMEDIATELY FOR DIRECTION FOR CHANGES BEYOND THE CONSTRUCTION ISSUE. THE OWNER/ENGINEER/ARCHITECT SHALL NOT BE RESPONSIBLE. THIS SHALL INCLUDE LOCATING UTILITIES WHEN REQUIRED.
13. 3/4" COLD WATER LINE TO WATER CLOSET.
14. 1/2" HOT & COLD WATER LINES TO LAVATORY.
15. 1/2" CW TO WALL MOUNTED TRAP PRIMER, SEE WATER RISER DIAGRAM SHEET P5. PROVIDE ONLY WHEN TRAP GUARD IS NOT PERMITTED.
16. 1/2" COLD AND HOT WATER LINES TO DUMP SINK. SINK AND FAUCETS PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR.
17. 3/4" COLD WATER LINES TO URINAL. SINK AND FAUCETS PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR.
18. CIRCULATION PUMP.
19. ROUTE TO CONNECT TO BUILDING MAIN GAS LINE. GAS METER BY UTILITY COMPANY VERIFY WITH GAS COMPANY EXACT CONNECTION AND METER INSTALLATION REQUIREMENTS PRIOR TO WORK. GAS PRESSURE SHALL BE 2 PSI MINIMUM.
20. GAS PIPE UP TO ROOF TO MECHANICAL EQUIPMENTS.
21. ROUTE GAS PIPING TO ROOF TOP AIR UNITS. PROVIDE GAS COCK, PRESSURE REDUCING VALVE & UNION PRIOR TO CONNECTION TO EQUIPMENT.
22. 1/2" FILTER WATER TO ESPRESSO MACHINE. PROVIDE A PRESSURE REDUCING VALVE.
23. 3/4" FILTER WATER TO OVEN. PROVIDE A PRESSURE REDUCING VALVE, PRESSURE GAUGE, AND SHUT-OFF VALVE.
24. 3/4" COLD WATER LINE TO URINAL.
25. 1/2" FILTER WATER TO TWIN COFFEE BREWER.
26. 1/2" FILTER WATER TO ISLAND OASIS.
27. 1/2" FILTER WATER UP TO 8 TAP SYSTEM.
28. 1/2" FILTER WATER TO SINGLE COFFEE BREWER.
29. 1/2" FILTER WATER TO ICE COFFEE BREWER.
30. 1/2" FILTER WATER TO HOT CHOCOLATE MACHINE.
31. PROVIDE LF919QT BACKFLOW PREVENTER & PRV. ROUTE RELIEF PIPING TO DRAIN INDIRECTLY INTO MOP SINK. DISCHARGE INDIRECTLY INTO MOP BASIN.

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PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

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ISSUED FOR PERMIT	04/11/2025

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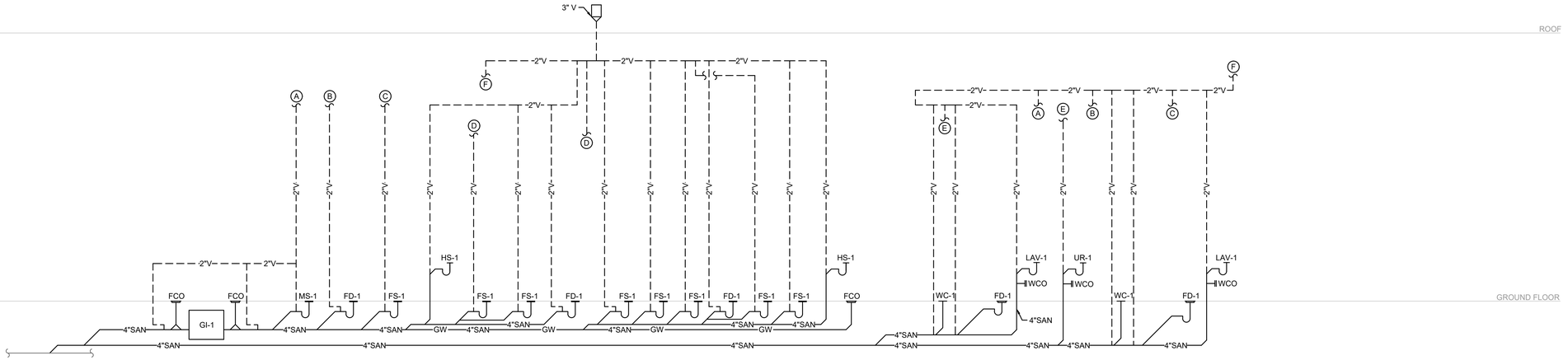
PLUMBING WATER AND GAS PLAN

SHEET NO.

P4

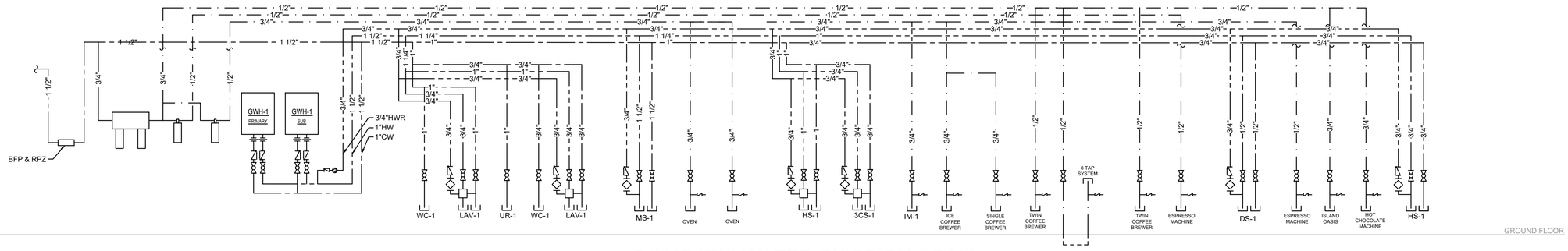
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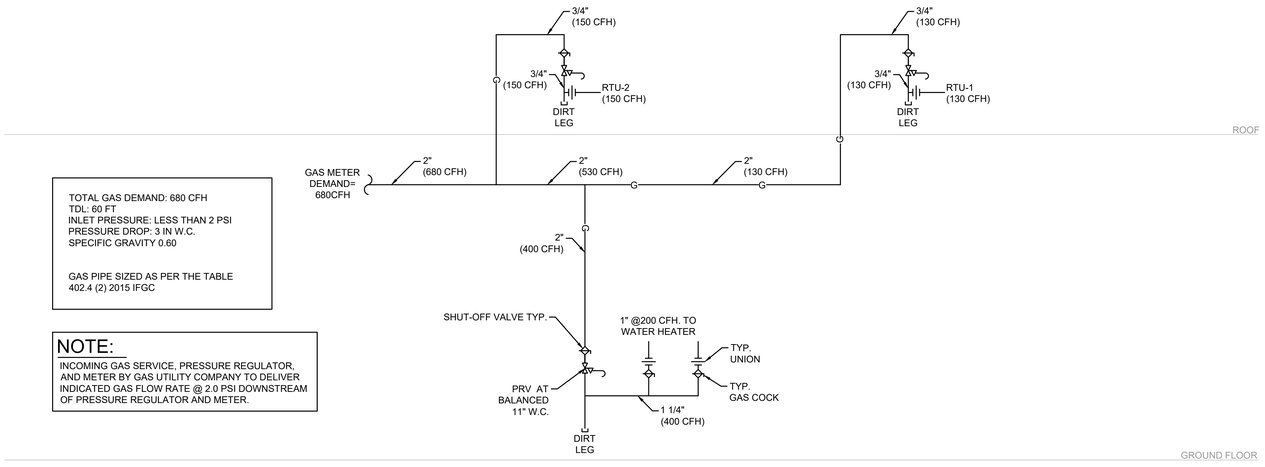
1 DRAINAGE RISER DIAGRAM

SCALE: N.T.S.



2 DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.



TOTAL GAS DEMAND: 680 CFH
TDL: 60 FT
INLET PRESSURE: LESS THAN 2 PSI
PRESSURE DROP: 3 IN W.C.
SPECIFIC GRAVITY 0.60

GAS PIPE SIZED AS PER THE TABLE 402.4 (2) 2015 IFGC

NOTE:
INCOMING GAS SERVICE, PRESSURE REGULATOR, AND METER BY GAS UTILITY COMPANY TO DELIVER INDICATED GAS FLOW RATE @ 2.0 PSI DOWNSTREAM OF PRESSURE REGULATOR AND METER.

3 GAS RISER DIAGRAM

SCALE: N.T.S.

GAS PIPING NOTES:

1. REFER PLUMBING SPECIFICATION SHEET FOR GAS PIPE & FITTING MATERIAL.
2. GAS COCKS TO BE SUITABLE FOR GAS SERVICE.
3. INTERIOR GAS PIPING SHALL NOT RUN IN OR THROUGH AN AIR DUCT, CLOTHES CHUTE, CHIMNEY OR VENT, VENTILATING DUCT, DUMBWAITER, ELEVATOR SHAFT, OR CONCEALED PLENUM.
4. PIPING SHALL NOT BE LOCATED IN SOLID PARTITIONS OR SOLID WALLS, UNLESS INSTALLED IN A CHASE OR CASING.
5. PIPING INSTALLED IN CONCEALED LOCATIONS SHALL BE WELDED.
6. PIPING SHALL NOT BE USED AS A GROUNDING ELECTRODE.
7. PIPING INSTALLED THROUGH A MASONRY WALL SHALL BE ENCASED IN A SLEEVE. THE SLEEVE SHALL BE SEALED AT THE OUTSIDE OF THE FOUNDATION WALL TO PREVENT ENTRY OF WATER. GAS PIPING SHALL NOT PENETRATE A BUILDING FOUNDATION WALL BELOW GRADE.
8. PROVIDE PIPE SUPPORT FOR ROOFTOP GAS PIPING. MAINTAIN MAXIMUM LOAD WEIGHT AND SPACING AS RECOMMENDED BY MANUFACTURER.
9. GAS PRESSURE REGULATORS THAT REQUIRE A VENT SHALL HAVE AN INDEPENDENT VENT TO THE OUTSIDE OF THE BUILDING. THE VENT SHALL BE TERMINATED SO AS TO PREVENT THE ENTRY OF WATER OR FOREIGN OBJECTS.

GAS PRESSURE REGULATOR VENT NOTE

GAS PRESSURE REGULATORS INSTALLED INDOORS SHALL HAVE FULL SIZED VENT PIPED TO OUTDOORS AND TERMINATE WITH SCREENED ELBOW TURNED DOWN A MINIMUM OF 12" ABOVE ROOF OR GRADE.

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CHARLESTOWN, IN 47111

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PLUMBING RISER DIAGRAM

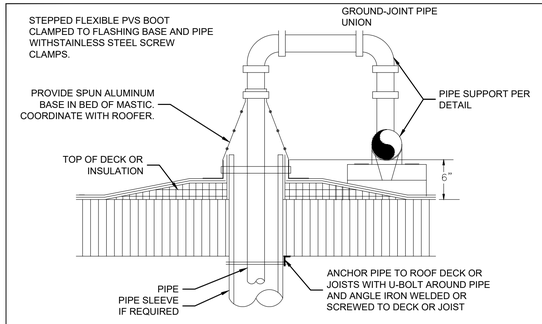
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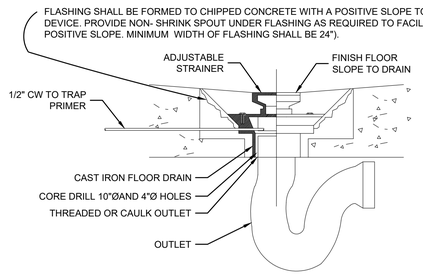
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REFER TO PLANS FOR PIPE SIZES AND LOCATIONS. USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE, LOCATE PENETRATION MINIMUM 18" FROM ADJECENT WALLS.

ROOF PENETRATION DETAIL | 3



NOTE: THE GENERAL CONTRACTOR SHALL PROVIDE A ONE PIECE WATER PROOF MEMBRANE FLOOR AND BASE IN THE TOILET ROOM(S).

FLOOR DRAIN w/TRAP PRIMER | 2

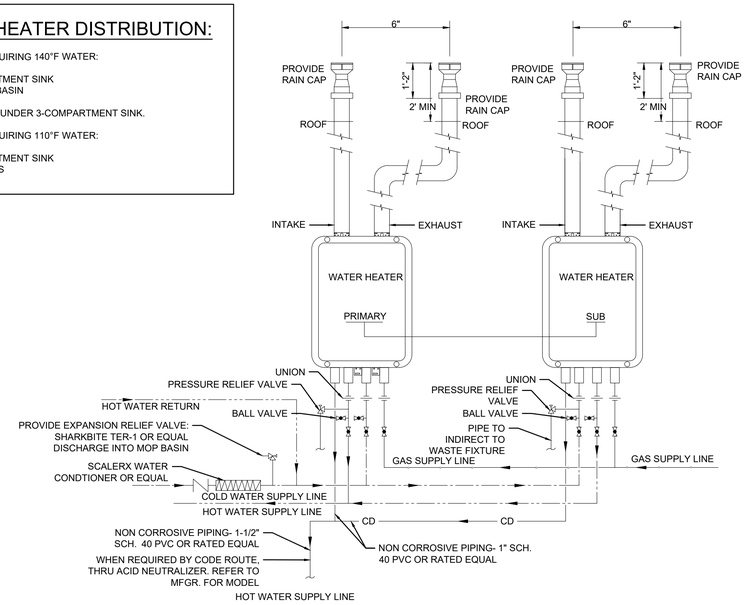
WATER HEATER DISTRIBUTION:

EQUIPMENT REQUIRING 140°F WATER:

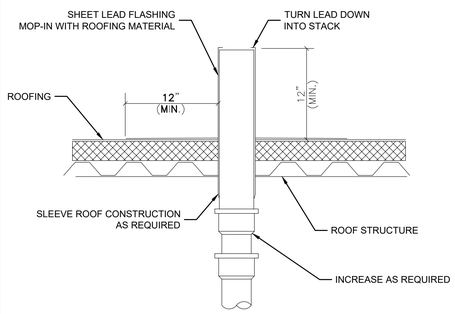
1. 3-COMPARTMENT SINK
2. MOB SINK BASIN
3. ECOLAB
4. HOSE BIBB UNDER 3-COMPARTMENT SINK.

EQUIPMENT REQUIRING 110°F WATER:

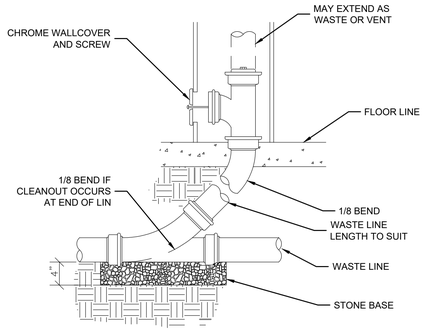
1. 2-COMPARTMENT SINK
2. HAND SINKS
3. LAVATORY



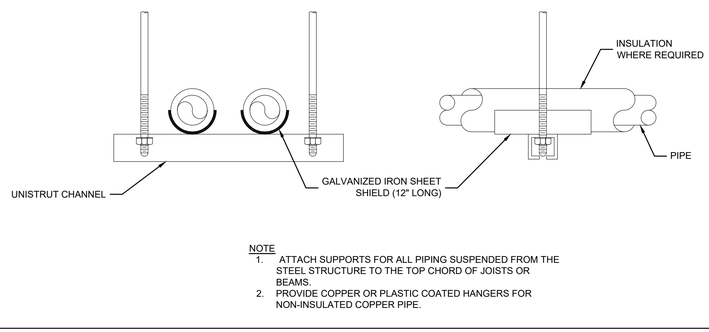
WATER HEATER DETAIL | 1



VENT THRU ROOF DETAIL | 5

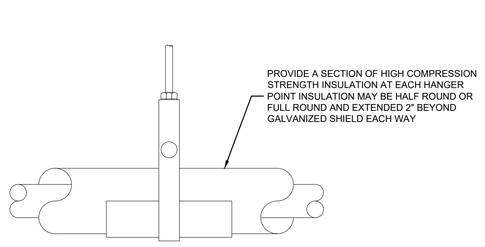


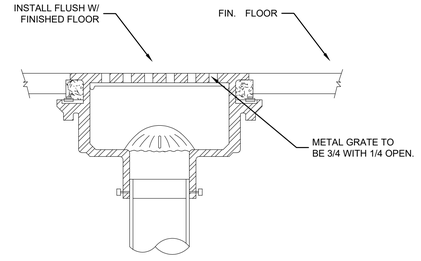
WALL CEANOUT DETAIL | 4



NOTE
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CHORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

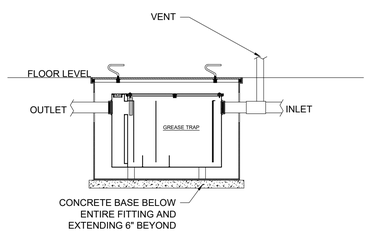
PIPE HANGER DETAIL | 7





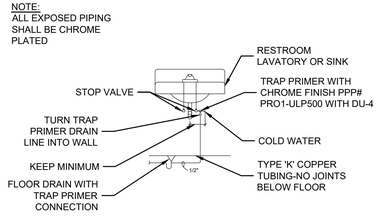
NOTE
1. ALL FLOOR SINKS MUST BE FLUSH WITH TILE FLOOR AS SHOWN ABOVE.INSTALLATION ON A1/4" LIP EITHER DIRECTION IS ALSO ACEEPTBLE.

FLOOR SINK DETAILS | 6



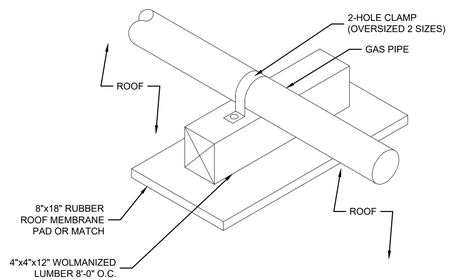
NOTE: DETAIL IS DIAGRAMMATIC. ACTUAL PIPING LAYOUT MAY DIFFER.

GREASE WASTE INTERCEPTOR | 11



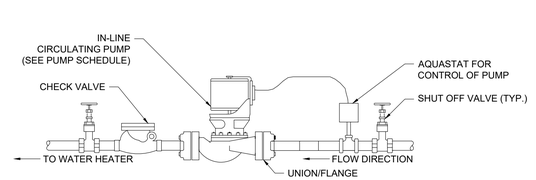
NOTE: FOR MULTIPLE DISTRIBUTION, CONTRACTOR MY SUBSTITUTE FOR #PRO1-500 IN LIEW OF SPECIFIED MODEL. REFER TO MANUFACTURE FOR INSTALLATION.

TRAP PRIMER PIPING DETAIL | 10



NOTE: ROOF PAD IS RECOMMENDED TO AVOID ABRASION TO ROOF

GAS MOUNTING DETAIL | 9



HOT WATER RECIRCULATION PUMP DETAILS | 8

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CHARLESTOWN, IN 47111

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INSTANTANEOUS GAS WATER HEATER SCHEDULE

SYMBOL	TYPE	QTY.	LOCATION	MAXIMUM GPM	MIN. FLOW / ACTIVATION GPM	GAS INPUT (MBTU/HR)	TEMPERATURE RISE °F	GPM @60° RISE MAX.	WATER CONNECTION SIZE (INCH.)	SUPPLY GAS CONNECTION (INCH.)	VENT SIZE (INCH.)	ELECTRICAL DATA			DIMENSION (INCH.)			SHIPPING WEIGHT (LBS)	UEF	MODEL	NOTES
												FLA	WATT	V/PH/HZ	WIDTH	DEPTH	HEIGHT				
GWH-1	NATURAL GAS	2	SEE IN PLAN	11.1	0.5	199.9	58	6.5	3/4"	3/4"	2"	4.0	114	120/1/60	14.1"	26"	28.3"	70	0.96	NCC199CDV (GQ-C3260WZ-FF US)	1,2,3,4

NOTES:
1. INSTALL PER MANUFACTURER INSTRUCTIONS.
2. FOR VENTILATION AIR INTAKE AND EXHAUST VENT CAN NOT EXCEED BY MORE THAN MANUFACTURER REQUIRED LENGTH.
3. USE ONLY VENT TERMINALS PROVIDED OR FACTORY AUTHORIZED TERMINALS FOR VENTING THIS WATER HEATER.

RECIRCULATING PUMP SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	QTY.	FLOW (GPM)	HEAD (FEET)	FLANGE SIZE NPT (INCH)	ELECTRICAL					WEIGHT (LBS)	MODEL	BASIS OF DESIGN
							HP	V/PH/HZ	WATTS	RPM	F.L.A (AMPS)			
CP-1	RECIRCULATING PUMP	SEE IN PLAN	1	22	15	3/4	1/25	115/1/60	92	2940	0.8	9.3	NRF-22	BELL & GOSSETT

NOTES:
1. PROVIDE WITH AQUASTAT AND TIMER.

GREASE WASTE INTERCEPTOR SCHEDULE

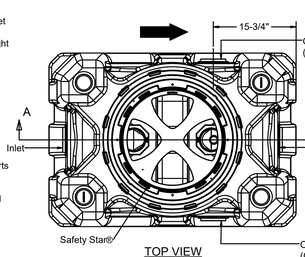
SYMBOL	DESCRIPTION	WORKING TYPE	TYPE	LOCATION	QTY.	RATED FLOW (GPM)	GREASE CAPACITY (GAL.)	INLET/ OUTLET (INCH.)	DIMENSION (INCH.)			MODEL	BASIS OF DESIGN
									WIDTH	LENGTH	HEIGHT		
GI-1	GREASE WASTE INTERCEPTOR	HYDRO-MECHANICAL	UNDER FLOOR	INSIDE	1	75	125	4"	33	47	39-7/8"	GB75	SCHIER

NOTES:
1. GREASE TRAP IS CORROSION-RESISTANT COATED FABRICATED STEEL WITH NO-HUB CONNECTION, FLOW DIFFUSING BAFFLE, INTERGRAL TRAP, AND VENTED INLET FLOW CONTROL DEVICE.

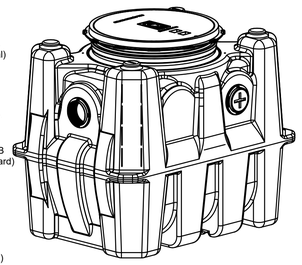
PLUMBING FIXTURE DEMAND TABULATION

FIXTURE	DESCRIPTION	OCCUPANCY	QTY.	DRAINAGE FIXTURE UNITS	SUB-TOTAL	LOAD VALUES IN WATER (EACH) SUPPLY FIXTURE UNITS (WSFU)			LOAD VALUES IN WATER (TOTAL) SUPPLY FIXTURE UNITS (WSFU)			REMARK
						COLD	HOT	TOTAL	COLD	HOT	TOTAL	
FS-1	FLOOR SINK	PUBLIC	8	2.00	16.00	-	-	-	-	-	-	
FD-1	FLOOR DRAIN	PUBLIC	5	2.00	10.00	-	-	-	-	-	-	
WC-1	WATER CLOSET, FLUSH TANK (1.6 GPF WATER CLOSET)	PUBLIC	2	4.00	8.00	5.00	-	5.00	10.00	-	10.00	
UR-1	URINAL	PUBLIC	1	4.00	4.00	3.00	-	5.00	3.00	-	5.00	
L-1	LAVATORY	PUBLIC	2	1.00	2.00	1.50	1.50	2.00	3.00	3.00	4.00	
3CS-1	THREE COMPARTMENT SINK	PUBLIC	1	2.00	2.00	3.00	3.00	4.00	3.00	3.00	4.00	
DS-1	DUMP SINK	PUBLIC	1	2.00	2.00	1.50	1.50	2.00	1.50	1.50	2.00	
MS-1	MOP SINK / SERVICE SINK	PUBLIC	1	2.00	2.00	2.25	2.25	3.00	2.25	2.25	3.00	
HS-1	HAND SINK	PUBLIC	2	2.00	4.00	1.50	1.50	2.00	3.00	3.00	4.00	
WF-1	WATER FILTERATION SYSTEM	PUBLIC	11	0.50	5.50	0.50	-	0.50	5.50	-	5.50	
TOTALS					55.50	DFU			31.25	12.75	37.50	WSFU
DFU = DRAINAGE FIXTURE UNITS					EIGHTH	INCH SLOPE PER FOOT			24.90	16.50	26.30	GPM
WSFU = WATER SUPPLY FIXTURE UNITS					4"	DIAMETER OF PIPE (INCHES)			-	-	1 1/2"	INCHES REQ'D.

SPECIFICATIONS
Notes:
1. 4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
2. Unit weight - w/ cast iron covers: 190 lbs. (For wet weight add 1,043 lbs.)
3. Maximum operating temperature: 150º F continuous
4. Capacities - Liquid: 125 gal.
   Grease: 861 lbs. (118 gal.) @75 GPM
   Solids: 31 gal.
5. For gravity drainage applications only.
6. Do not use for pressure applications.
7. Cover placement allows full access to tank for proper maintenance.
8. Vent not required unless per local code.
9. Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
10. Integral air relief / Anti-siphon / Sampling access.
11. Adjustable cover adapter provides up to 4" of additional height.
12. Designed for below-grade, above-grade, indoor and outdoor installations.
13. Safety Star®, access restrictor built into cover adapter, prevents accidental entry to tank (450 lb rating).



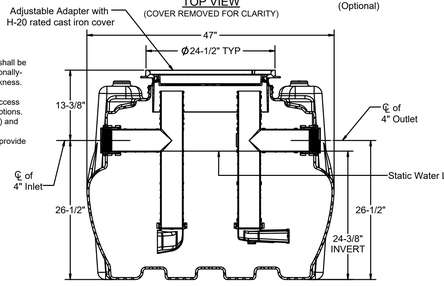
TOP VIEW
(COVER REMOVED FOR CLARITY)


ISOMETRIC VIEW

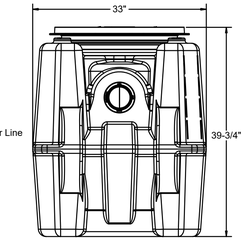
ENGINEER SPECIFICATION GUIDE
Schier Great Basin™ grease interceptor model # GB-75 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Star® access restrictor built into each cover adapter, and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D) and CSA B481.1. Interceptor flow rate shall be 75 GPM. Interceptor grease capacity shall be 861 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE
Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control



SECTION A-A



END VIEW

SPECIFICATION SHEET

MODEL NUMBER: GB-75

PART NUMBER: 4045-007-02

DESCRIPTION: GB-75 GREASE INTERCEPTOR 75 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVER

DWG BY: C. BUSENITZ | DATE: 4/14/2022 | REV: - | ECO: -

PROPRIETARY AND CONFIDENTIAL
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EXP: 07/31/2026 SIGNED: 04/11/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
ISSUED FOR PERMIT	04/11/2025

DRAWN BY:

CHECKED BY:

SHEET TITLE:
PLUMBING SCHEDULES

SHEET NO.
P7

Kolbrook Job No. 1502.236 | Consultant Job No. -

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EQUIPMENT SCHEDULE

EQUIPMENT								PLUMBING						ELECTRICAL									GENERAL REMARKS
ITEM #	QTY.	DESCRIPTION	MANUFACTURER	MODEL #	N.S.F. E.T.L.	U.L. E.T.L. H	WATER		WASTE		REMARKS	LOAD					SUPPLIED W/ CORD & PLUG	RECEPT. SPEC	A.F.F.	REMARKS	
							W.C	W.F	W.	DIR. IND.		VOLTS	PHASE	AMPS	CIRCUIT SIZE	#WIRES W/GROUND					
36COND	1	36" Condiment Station Island	MILLWORK	36COND																	
LEGS-S-21	1	21" STAINLESS LEG	FRANKE	18017197																	
5WRSWL	1	5 WIDE FRONT BAKERY CASE (L/R)	MILLWORK	5WRSWL																	
50B	1	FC TRASH BARREL POS/HOS	RUBBERMAID	2955 WASTEBASKET, SMALL																	
70R	1	TISSUE BAG AND BOX HOLDER FOR DRIVE THRU RACK	UNIVERSAL	DD-DSPNT1435																	
70.5B	1	3 WIDE BACKLINE BAKERY CASE	VULCAN	1013776																	
70.7	1	REMOVABLE TISSUE BAG AND BOX HOLDER (APPLIED TO SIDE OF BACKLINE BAKERY RACK)	VULCAN	1014178																	
82G	1	BAKERY RACK 4x5	VULCAN	1022648-00U0164																	
96.4	2	ESPRESSO MACHINE	SHAERER	COFFEE ART TOUCHIT					1/2"	1/2"		220	1	24	30	3	Y	NEMA L6-30R		**VERIFY ALL ELECT REQTS w / MANUF	PROVIDE WATER SHUT-OFF VALVE W/ 3/8" COMPRESSION FITTING
101C 101C-3	2	DAIRY DISPENSER	AC DISPENSING	AC320-FIP / Alternate - SKECD12-V3-1-KE-1	5300/533OC							115	1	2	15	3	Y	L-5-20R		*ALT. VOLTAGE MODEL AVAILABLE (NEMA 6-20R RECEPTACLE)	** 115V MODEL HAS A 20A NEMA 5-20P PLUG; 230V MODEL HAS A 15A NEMA 5-15P PLUG; 50HZ MODEL IS NOT FURNISHED WITH CORD OR PLUG. REFERENCE MANUFACTURER'S CUTSHEET FOR UTILITY INFORMATION IF SPECIFIED ALTERNATE
104A	1	PORTION CONTROLLED GRANULAR & POWDER DISPENSER	SURE SHOT	AC2-GP								120	1	0.5							
101Q 101Q-3	2	MULTI HOPPER COFFEE GRINDER	BUNN-O-MATIC	35600.0011								120	1	11	15	2	Y	NEMA 5-15		BUNN PROVIDED CORD & PLUG INSTALLED BY GENERAL CONTRACTOR	
104A	1	9 X 6 PUMP STATION	WIREFAB	WF35522																	
116.1	1	MAGNA BLEND BLENDERS ISLAND OASIS	TAYLOR	SB2412-WDD					3/8"		ISLAND OASIS (IO) TO BE FILTERED WATER	100-115	1	10						VERIFY ALL ELECTRICAL REQUIREMENT WITH MANUFACTURER	BLENDER MUST BE WITHIN 5'-0" OF ELEC.OUTLET
119	1	HOT CHOCOLATE MACHINE	BUNN-O-MANIC	38600.0057	18		197		3/8"		20-90PSI FROM A 3/8" OR LARGER SUPPLY LINE. A SHUT OFF VALVE SHALL BEINSTALLED IN THE LINE BEFORE THE UNIT.	120/208	1	20		3	Y	L14-20P			
'120F' 120F-1		ESPRESSO MACHINE	SHAERER	COFFEE ART TOUCHIT					1/2"	1/2"		220	1	24	30	3	Y	NEMA L6-30R		*VERIFY ALL ELECT REQTS w / MANUF	PROVIDE WATER SHUT-OFF VALVE W/ 3/8" COMPRESSION FITTING
120F-2	3	UNDERCOUNTER REFRIGERATOR - 27" W/CASTERS. LEFT HINGE	DELFIELD	406-CA-SPL-LHH	7	SA 4769						115	1	7	15	3	Y	NEMA 5-15			LEFT HAND HINGE
120F-3		UNDERCOUNTER REFRIGERATOR - 27" W/CASTERS. LEFT HINGE	VICTORY	UR-27-SST								115	1	5.6	15	2	Y	NEMA 5-15			DOOR CAN BE RE-HINGED IN FIELD
124A	1	TWIN SHBREWER	BUNN-O-MATIC	51200. 0106					1/2"			120/208	1	38.5	50	3		NEMA 14-50P			
124B	7	1.5 GALSHSERVER	BUNN-O-MATIC	27850. 0200																	
124E	1	SINGLE SHBREWER	BUNN-O-MATIC	51100.0105					1/2"			120/208	1	16.8	20	3		NEMA L14-20P			
124G	2	TWIN SHSTAND WITH WIFI	BUNN-O-MATIC	27875.0201								120	1	1.8	20	2	Y	NEMA 5-15P			
130	1	DONUT/BAKERY RACK AT DRIVE THRU - 35"W x 28"D	UNIVERSAL	DD-365 LC-29-RK-C																	
171B	1	DRIVE-THRU READY TO GO MAT	TRYAD	2.1																	
200A	1	ICED COFFEE BREWER -#IC3-D BC W ICDD	BUNN-O-MATIC	45100.01					1/2"		20-90 PSI MACHINE SUPPLIED WITH 3/8" O.D. MALEFLARE FITTING	120/208	1	19.5	30	4	Y	NEMA L14-30		6' CORD TO BE PROVIDED & INSTALLED BY GC	** E34066
215	2	TORNADO OVEN W/ STONE, PEEL AND (2) TRAYS -EXTENDED WARRANTY INCLUDED	TURBOCEF	NGC-1180-1-2019								208	1	30	30		Y	NEMA 6-30			
217	1	SANDWICH STATION TABLE FOR NGSS -16"W x 30"D	UNIVERSAL	DD-16S LC-30																	
244A	1	DUAL LANE TOASTER	HATCO	ITQ-1750-2C-DD								208	1	23.8	30	3	Y	NEMA 6-30P			
246A 246A-1	1	SINGLE SIDED HOT HOLDING UNIT	CARTER HOFFMAN	MZ343S-DD								120		15			Y	NEMA 5-20P			
246A-2		SINGLE SIDED HOT HOLDING UNIT	PRINCE CASTLE	DHB3PT-330D								208-240		9.6-11.2			Y	NEMA 6-15P			
257	1	8 TAP SYSTEM WITH GENERATOR	MICROMATIC	MDD-68G-E-DD					1/2"			115	1	11.1	20	2	Y	NEMA 5-15			
275	1	NEXT GEN FLUSH DT WINDOW	READY ACCESS	275E / 275SC																	TO BE PROVIDED AND INSTALLED BY THE EQUIPMENT SUPPLIER
292	1	36" SWING GATE	EQUIPMENT SUPPLIER	CUSTOM MILLWORK						1"											SEE CUSTOM MILLWORK DRAWINGS FOR DETAILS.
346	1	36" (2) TIER OMO UNIT	WIREFAB																		
375	1	94" ASSEMBLY STATION WITH 2 REFRIGERATED UNITS	DUKE	DD94-DPC-UTR								115		10.4				NEMA 5-15			
												120		3.9				NEMA 5-15			
395	2	HAND WASHING SINK W/SIDE SPLASHES-FOR FRONT & BACK ROOM	UNIVERSAL	EHS-1RL-WH			1/2"	1/2"		1 1/2"	1 1/2"-2" PER LOCAL CODE										
402	2	EMPLOYEE LOCKER	WIN-HOLT	WL-66 (156195)																	
409A-409J	1	ICE BINS	SCOTSMAN	B230P, B842S, B530S, B948S																	
414	1	ICE MACHINE (FPRODUCTION UP TO 1077 LBS/ 24 HRS)	SCOTSMAN	C1030SA-32B																	
420B	9	SHELF - 24"W x 48"D - OREER (5) SHELVES PER UNIT	METRO	2448B R																	
420E	1	SHELF - 24"W x 72"D - OREER (5) SHELVES FER UNIT	METRO	ADRUS 2472NK3																	
421A	1	SHELF - 18"W x 60"D - ORCER (5) SHELVES FER UNIT	METRO	1860BR																	
421B	1	SHELF - 18"W x 48"D - ORCER (5) SHELVES FER UNIT	METRO	1848BR																	
421C	3	SHELF - 18"Wx 36"D - ORCER (5) SHELVES FER UNIT	METRO	1836B R																	
421L	1	72" X 18" SHELVING UNITS	METRO	1872BR																	
434A	1	112"W X 34"D THREE COMPARTMENT SINK (JUST BAKED)- 20"W x 28"D x 14" BOWL W/ (2) 24"W DRAIN BOARD. (3) TWIST HANCLE LEVEL DRAINS	UNIVERSAL	DD-3N202814-2D24/TSB-133-B/TSB-158				3/4"	3/4"	2"	DIRIND WASTE AS DETERMINED BY LOCAL CODES										S.S. TOP, SPLASHES ON (3) SIDES. T&S PRE-RINSE WALL UNIT (INCLUDES BRACKET) W/ ADD-A-FAUCET 12" SPOUT TO SHIP W/ 3 BAY SINK
435B	1	108" SINK IHAX SHELVING WORKSTATION- INCLUDED SHELVING & BRACKETS (USED FOR 112" THREE COMPARTMENT SINK)	ISS	WST1415E																	
480 480-1	1	WALK-IN COOLER/FREEZER PACKAGE	NORLAKE	PER WALK-IN ORDER FORM							PROVIDE DRAIN FOR EVA. FORATOR COIL CONDENSATE (HEATED IF LOCATED OUTDDDRS)	.	.	—	—	–	N		INCANDESCENT DOOR LIGHT/ HEATER- 115V, EA, 1PH; FL LIGHT (EACH)- 115V, 1FI-J; MTD/ AIR VENT-1UV, 2A , 1PH; FREEZER SYSTEM- 208-220V, 17A, 3PH	UTILITY INFO SHOWN IS FOR INDOOR UNIT- VERIFY ALL INFO FOR OUTDOOR UNITS. IF CONTROL WIRE REQUIRE EXTENSION, IT N THE RESPONSIBILITY OF THE GC TO RUN THE WIRING
541 541-B	1	DUNNAGE RACK -48"W x 20"D, SINGLE TIER, USED FOR JUST BAKED	LOCKWOOD	D2048-8																	
541-C	1	DUNNAGE RACK - 60"W x 20"D, SINGLE TIER, USED FOR JUST BAKED	LOCKWOOD	D2060-8																	
543	2	BAKERY PAN RACK	KELMAX	APRU1618-4-AT-BK-MOD																	
552 552-B	1	FRESH BAKED DOUBLE CONVECTION OVEN W/ STAND	ADAMATIC BELSHAW	BX-DD-D					3/4"		PROVIDE PRESSURE REDUCING VALVE PRESSURE GAUGE & SHUT OFF VALVE AT PLUMBING CONNECTON TO OVEN	208-220	3	20.8-22.3	30	4	Y	L15-30		2 SEPARATE CIRCUITS REQUIRED PER OVEN	ALSO REQUIRES (1) 120V/60H/1PH/15A NEMA 5-15 DEDICATED CIRCUIT PER OVEN
'560* 560B	1	72"X36" STAINLESS STEEL FINISHING TABLE W/ 10" DEEP OVERSHELF	UNIVERSAL	DD-6SLCB36-OS2ES																	
561		FINISHED PRODUCT RACK (IN SHOP USE ONLY NOT ENCLOSED)	KELMAX	APRUE1326-5/AT/TG/BK																	
563	1	POWER BASE	EDHARD	P-4010	29051	SA 4027						120	1		15			NEMA 5-15			
590 OR *591* 590A 591A	1	EFILTRATION - INSURICE 20" PF TRIPLE 7FC-S(75K GALLONS, 7.50 GF	PENTAIR	CONFIG 1																	
		BASE WATER FILTRATION SYSTEM	3M	56245-03																	
636-4	1	FREESTANDING NEXTGEN COMMUNITY TABLE (6 LARGE)	SUPPLIER	COM-NG																	TO BE USED WHEN NOT UP AGAINST A WALL, FLOATING. BAR COUNTER HEIGHT. LAMINATE CHOSEN FOR TABLE TO MATCH COLOR OF ENTIRE MILLWORK PACKAGE. TABLE IS NOT PRE-WIRED. TABLE IS BUILT W/ CHASE TO ALLOW WIRES TO BE PULLED THROUGH.
641	2	24" x 24" Table Top	MILLWORK	TBD																	
643	1	30" x 48" ADA TABLE TOP	MILLWORK SUPPLIER																		
680	1	FREESTANDING QUEUEING SYSTEM	LAVI INDUSTRIES	B3000																	
877	2	3 TIER WATERFALL MERCHANDISER	SPECTAS																		ALSO ORDER ITEM 875A, QTY 1
886B	1	MIXER CUP HOLDER	WIREFAB	WF35897																	USED FOR STAINLESS CUPS AT TAP STATION.
886C	2	LID RACK	WIREFAB	WF35873																	HUNG ON TAP SYSTEM DOOR.
924	8	Dining Chair	ALLERMUIR	DB81																	
925	6	Dining Stool	ALLERMUIR	DB81																	
1409	1	POWDER & SYRUP RACK																			
1422	1	DT POS Cart 42"W	MEIHO	DD2442CS																	
1425	2	30" CUP CART	METRO																		
1426	2	24" POS Metro Cart	MEIHO	DD2424POS																	
1427	1	24" HOS Metro Cart	METRO	DD2424OTG																	
1431	1	36" Worktable w ith NC Base	METRO	DB303634WT																	
1445	1	Drive Thru Cart 14"D X 30"W X 59"H	METRO	DD-DT30OMO																	
1500	1	HVB Coffee Cart (39.5" x 30") REVERSIBLE	FRANKE	18017419																	
1501	1	Dump Sink Table/Espresso - Right	FRANKE	18017828																	
1503	1	Ice Bin/Initiator - Right	FRANKE	18017813																	
1507	2	Worktop Riser for UCR	FRANKE	18018506																	
1508	1	Trash/Compost	FRANKE	18018667																	
-	1	WALL HUNG LAVATORY	AMERICAN STANDARD	124.24					1/2"	2"											
-	1	WATER CLOSET - ADA	AMERICAN STANDARD	2108.408					3/4"	3"											
-	1	EYE WASHER	BRADLEY	S19-222			1/2"	1/2"		2"											
1516	3	LID HOLDER 1 WIDE 4 TALL																			
1517	1	LID HOLDER 2 WIDE 3 TALL	FRANKE																		

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DUNKIN'

CIVIL ENGINEER

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EXP: 07/31/2026 SIGNED: 04/11/2025

PROJECT:
DKN - CHARLESTOWN, IN
NEXT GEN
1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
ISSUED FOR PERMIT	04/11/2025

DRAWN BY:

CHECKED BY:

SHEET TITLE.

PLUMBING SCHEDULES

SHEET NO.

P8

Kolbrook Job No. 1502.236 | Consultant Job No. -

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DUNKIN' DONUTS WATER SPECIFICATION & TREATMENT REQUIREMENTS

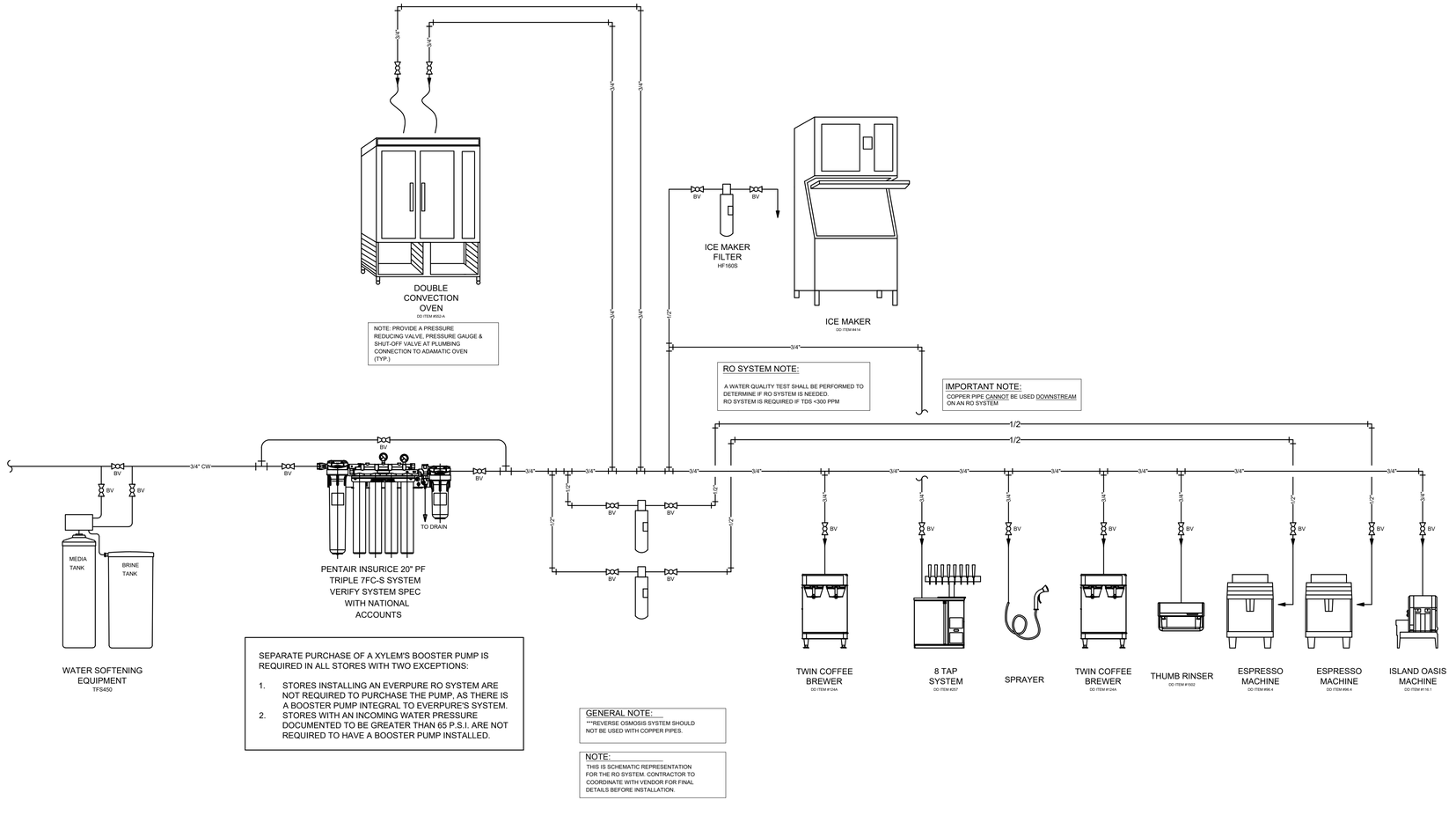
CHARACTERISTIC	UNITS	DUNKIN DONUTS SPECIFICATION		WATER TREATMENT SOLUTIONS	
		IDEAL RANGE	LIMIT	A) WATER FILTER	B) REVERSE OSMOSIS
HARDNESS	PPM	80-120	< 200	> 200	NA
ALKALINITY	PPM	70-110	0-150	> 150	NA
TOTAL DISSOLVED SOLIDS (TDS)	PPM	100-175	< 250	NA	> 250
pH	pH	6.7-7.4	6.7-7.4	< 6.7 OR >7.4	NA
SODIUM	PPM	0-20	< 40	> 40	NA
CHLORIDE	PPM	0	< 40	> 40	NA
CHLORAMINES	PPM	0	0	> 0	NA
CHLORINE	PPM	0	0	> 0	NA
TURBIDITY	NTU	0-1	< 1	> 1	NA
PRESSURE	PSI	>65 PSI		BOOSTER PUMP IS REQUIRED	

*IN ADDITION TO THE ABOVE SPECIFICATIONS, WATER MUST MEET NSF42 AND NSF53 STANDARDS
PPM = PARTS PER MILLION
100 PPM = 5.8 GRAINS PER GALLON

NOTES:
1) PRIOR TO CONSTRUCTION, GC SHALL PROVIDE A WATER QUALITY TEST, PERFORMED IN THE CITY IN WHICH THE STORE WILL BE RECEIVING WATER. TESTING TO BE DONE ON A LIVE LINE CONNECTED TO THE SAME SUPPLY LINE FEEDING THE FUTURE STORE.

2) UPON RECEIPT OF THE WATER QUALITY TEST, THE GC SHALL PROVIDE A FILTRATION SYSTEM OR RO SYSTEM THAT WILL TREAT THE INCOMING WATER TO ALLOW IT TO MEET THE REQUIREMENTS IN THE TABLE ABOVE.

3) UPON COMPLETE OF CONSTRUCTION, GC SHALL SUBMIT A SECOND WATER QUALITY TEST TAKEN FROM A TREATED WATER OUTLET TO VERIFY THE PROPER WATER QUALITY IS BEING ACHIEVED.



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1095 MARKET STREET
CHARLESTOWN, IN 47111

DRAWING ISSUE	DATE
ISSUED FOR PERMIT	04/11/2025

DRAWN BY:

CHECKED BY:

SHEET TITLE.

WATER FILTRATION SYSTEM

SHEET NO.

P9

Kolbrook Job No.	1502.236	Consultant Job No.	-