AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST

ROANOKE, VA

PROJECT TEAM

OWNER: .

KROGER LIMITED PARTNERSHIP
3631 PETERS CREEK ROAD
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ARCHITECT: .

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ELECTRICAL ENGINEER: .

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CHARLOTTE, N.C. 28237
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scott@haaskennedy.com

STRUCTURAL ENGINEER: .

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120 SAINT MARY'S STREET
RALEIGH, N.C. 27605
CONTACT: PAT KYZER
919-833-0495 (EXT. 225)
pmk@lysaghtassociates.com

PROJECT NOTES

1. THE CONTRACT DOCUMENTS HAVE BEEN PREPARED TO BE COMPLEMENTARY. WHAT IS REQUIRED BY THE DRAWINGS SHALL BE REQUIRED BY THE SPECIFICATIONS, AND CONVERSELY. IN THE CASE OF DISCREPANCIES CONCERNING QUALITY AND/OR QUANTITY WITHIN THE DOCUMENTS, THE CONTRACTOR SHALL INCLUDE THE BETTER QUALITY AND/OR THE GREATER QUANTITY, UNLESS OTHERWISE DISTINGUISHED IN WRITING BY THE ARCHITECT. WHERE SPECIFICATIONS HAVE BEEN OMITTED FOR PARTICULAR ITEM(S), THE CONTRACTOR SHALL EMPLOY THE HIGHEST STANDARDS ESTABLISHED BY THE MANUFACTURER OF THE ITEM(S) AS THE GUIDELINES FOR PRODUCT HANDLING, INSTALLATION OR ERECTION AND PROTECTION OF THE COMPONENT, ONCE IN PLACE.
2. ALL WORK SHALL CONFORM WITH THE LATEST ADOPTED EDITION OF THE VIRGINIA BUILDING CODE, VIRGINIA PLUMBING CODE, VIRGINIA MECHANICAL CODE, THE NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERSONALLY FIELD INSPECT THE JOB SITE PRIOR TO THE PREPARATION AND SUBMITTAL OF HIS BID. THIS INSPECTION IS REQUIRED SO THAT THE CONTRACTOR SHALL BE TOTALLY FAMILIAR WITH THE EXISTING CONDITIONS AND THEIR INTERFACE WITH THE NEW CONSTRUCTION AS DEFINED IN THESE CONSTRUCTION DOCUMENTS. ANY ADJUSTMENT TO THE CONSTRUCTION CONTRACT, ADDITIONS, DELETIONS OR CHANGE IN CONTRACT TIME SHALL BE MADE BY WRITTEN ADDENDUM OR CHANGE ORDER BY THE OWNER AND MUST BE SIGNED BY THE OWNER AND CONTRACTOR. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TEMPORARY FACILITIES AND UTILITY SERVICES AND ALL OTHER ITEMS AND SERVICES REQUIRED TO FULLY EXECUTE THE WORK REQUIRED BY THE CONTRACT DOCUMENTS. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, ALL MATERIALS, COMPONENTS, EQUIPMENT AND SIMILAR ITEMS TO BE INCORPORATED IN THE WORK SHALL BE NEW AND SUITABLE FOR THE INTENDED USE.
4. THE TERM "CONTRACTOR" AS REFERENCED THROUGHOUT THE CONSTRUCTION DOCUMENTS SHALL MEAN THE GENERAL CONTRACTOR (G.C.). IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INTEGRATE, DIVIDE AND/OR SUBDIVIDE ANY AND ALL ASPECTS OF THE WORK BASED ON HIS OPERATION. CORRESPONDINGLY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL WORK REQUIRED OR IMPLIED BY THESE CONSTRUCTION DOCUMENTS IS PROVIDED/FURNISHED AND INSTALLED COMPLETE IN A FIRST-CLASS WORKMANLIKE MANNER UNLESS STATED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
5. THE CONTRACTOR SHALL MAINTAIN ORDERLY HOUSEKEEPING DURING THE PROCESS OF CONSTRUCTION. DAILY CLEAN UP SHALL INCLUDE THE REMOVAL OF ALL DUST, MATERIAL WASTE AND DEBRIS.
6. THE CONTRACTOR SHALL, UPON PROJECT COMPLETION, THOROUGHLY CLEAN ALL AREAS. FINAL CLEAN UP SHALL INCLUDE THE DUSTING AND REMOVAL OF DIRT, PAINT DRIPPINGS/OVERRUNS, OIL, GREASE AND OTHER BLEMISHES FROM ALL SURFACES INCLUDING SIDEWALKS, FIXTURES, COLUMNS, WALLS AND EQUIPMENT.
7. ALL HARDWARE SHALL BE CLEANED AND POLISHED WITH FLANNEL CLOTH.
8. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION RUBBISH, SCAFFOLDINGS, EQUIPMENT, TEMPORARY PROTECTION, TEMPORARY FIELD STRUCTURES AND ANY OTHER COMPONENTS WHICH WERE REQUIRED IN CONNECTION WITH THE CONSTRUCTION, BUT NOT A PERMANENT PART THEREOF.
9. THE CONTRACTOR MAY NOT SUBSTITUTE ANY "EQUIVALENT" PRODUCTS FOR SPECIFIED PRODUCTS, UNLESS THE TERM "OR EQUIVALENT" OR "OR EQUAL" IS DESIGNATED, WITHOUT APPROVAL OF THE OWNER. ALL SUBSTITUTIONS MUST BE SUBMITTED PRIOR TO BID FOR APPROVAL. NO SUBSTITUTES SHALL BE ALLOWED UNLESS "OR EQUAL" IS DESIGNATED.
10. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
11. THE CONTRACTOR'S OWN FORCES, SUBCONTRACTORS AND OTHER ENTITIES UNDER THE CONTRACT TO THE CONTRACTOR THAT ARE PERFORMING PORTIONS OF THE WORK SHALL BE SKILLED IN THEIR RESPECTIVE TRADES AND COMMENSURATE WITH THE STANDARDS OF WORKMANSHIP CONSISTENT WITH, AND REASONABLY INFERABLE FROM, THE CONTRACT DOCUMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND PRACTICES FOR PROTECTION OF PERSONS AND PROPERTY IN CONJUNCTION WITH THE EXECUTION OF WORK CONSISTENT WITH INDUSTRY-ACCEPTED PRACTICES AND PROCEDURES AND IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING AUTHORITIES, INCLUDING O.S.H.A..
13. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK TO OWNER, HIS AGENTS AND GOVERNING AUTHORITIES AT ALL REASONABLE TIMES, AS MAY BE REQUESTED OR REQUIRED BY LAW OR PROJECT CONDITIONS.
14. THE CONTRACTOR SHALL AFFORD THE OWNER AND THE OWNER'S SUBCONTRACTOR REASONABLE OPPORTUNITY FOR PERFORMANCE OF WORK UNDER SEPARATE CONTRACT AND COORDINATE THE CONTRACTOR'S WORK WITH THEIR WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
15. FIGURED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS, DETAIL DIMENSIONS SHALL TAKE PRECEDENCE OVER PLAN DIMENSIONS AND DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
16. DISCREPANCIES OR AMBIGUITIES FOUND SHALL BE REPORTED TO THE ARCHITECT AT ONCE FOR CLARIFICATION.
17. DIMENSIONS ON DRAWINGS ARE TO FACE OF NEW/EXISTING FINISHED SURFACE UNLESS NOTED OTHERWISE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL LIFE SAFETY SYSTEMS AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO FIRE ALARM SYSTEMS, AUTOMATIC FIRE SPRINKLERS, EMERGENCY LIGHTING, EXIT LIGHTING, FIRE EXTINGUISHERS, AND EXITS FOR THE DURATION OF CONSTRUCTION.
19. WHEN REQUIRED BY THE FIRE OFFICIAL HAVING JURISDICTION, THE CONTRACTOR SHALL SUBMIT A PLAN DESCRIBING HOW THE ABOVE WILL BE ACCOMPLISHED.

CODE ANALYSIS

CODE REFERENCE

BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE (VIRGINIA UNIFORM STATEWIDE BUILDING CODE)
PLUMBING CODE: 2012 INTERNATIONAL PLUMBING CODE
MECHANICAL CODE: 2012 INTERNATIONAL MECHANICAL CODE
ELECTRICAL CODE: 2011 NATIONAL ELECTRICAL CODE
FIRE CODE: INTERNATIONAL FIRE PREVENTION CODE (VIRGINIA ADDITION)
FIRE SPRINKLER: 2009 STD. FOR INSTALLATION OF SPRINKLER SYSTEMS (NFPA 13-07)
FIRE ALARM: 2012 NATIONAL FIRE ALARM CODE (NFPA 72-07)
ACCESSIBILITY CODE: 2009 I.C.C./A.N.S.I. 117.1

CODE SUMMARY

BUILDING YEAR CONSTRUCTED: 2008

OCCUPANCY CLASSIFICATION – MERCANTILE (EXISTING, UNALTERED)

CONSTRUCTION CLASSIFICATION – 2B (EXISTING, UNALTERED)

BUILDING AREA (GROSS): 82,878 S.F.

BUILDING EGRESS: NO EXISTING EGRESS AFFECTED BY NEW WORK.

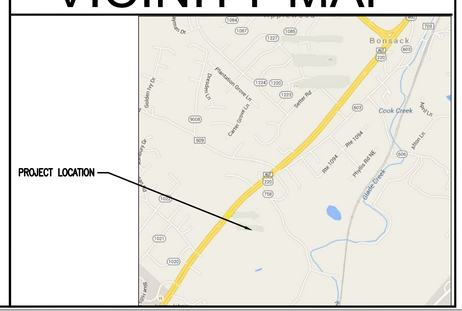
PLUMBING FIXTURE REQUIREMENTS: EXISTING (UNALTERED)

ACCESSIBILITY REQUIREMENTS: EXISTING (UNALTERED)

FIRE PROTECTION – EXISTING (MAIN SYSTEM DESIGN UNALTERED, MINOR MODIFICATIONS TO BE SUBMITTED FOR REVIEW BY FIRE PROTECTION CONTRACTOR IF DETERMINED TO BE REQUIRED).

SUMMARY: THE PROJECT MODIFIES SOME EXISTING FRONT OFFICE SPACE AND, IN SAME SPACE, ADDS NEW ONLINE SHOPPING STORAGE WITH WALK-IN COOLER AND FREEZER.

VICINITY MAP



SHEET INDEX

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SEAL

CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR: KROGER R-391 ROUTE 460 EAST ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

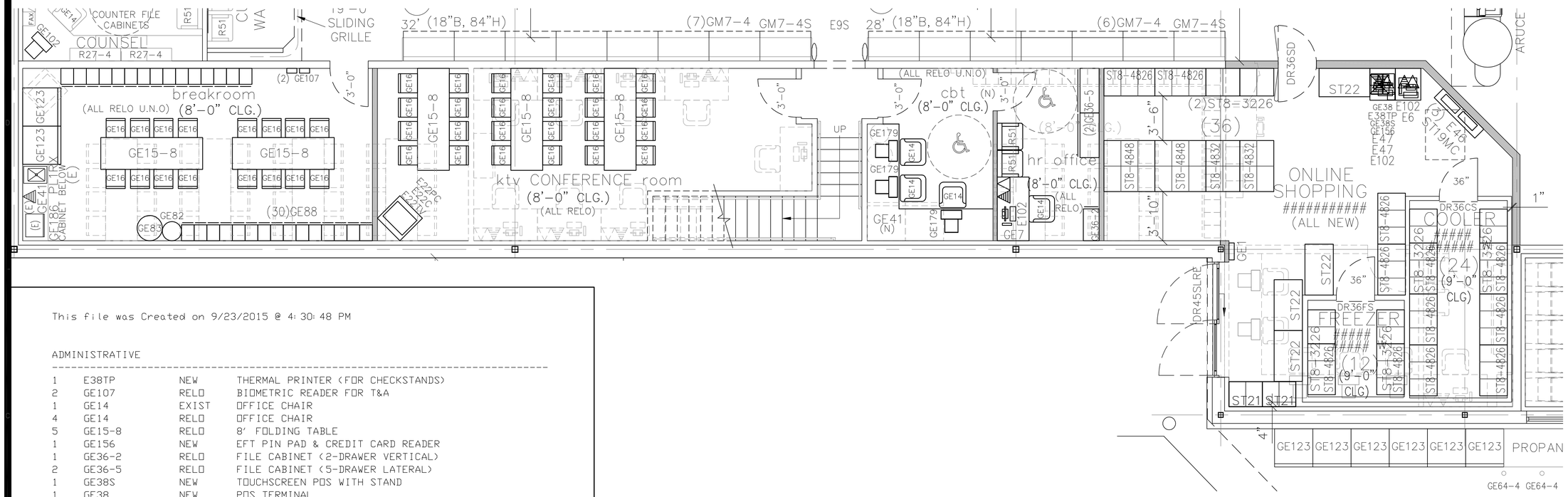
COVER SHEET
SHEET TITLE

REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: CPS2015-21.4
CAD DWG FILE: CPS2015-21.4-G0.1
DRAWN BY: JMH
CHK'D BY: JMH

G0.1
SHEET NO.



2C FIXTURE PLAN

SCALE: ¼" = 1'-0"

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ADMINISTRATIVE

1	E38TP	NEW	THERMAL PRINTER (FOR CHECKSTANDS)
2	GE107	RELO	BIOMETRIC READER FOR T&A
1	GE14	EXIST	OFFICE CHAIR
4	GE14	RELO	OFFICE CHAIR
5	GE15-8	RELO	8' FOLDING TABLE
1	GE156	NEW	EFT PIN PAD & CREDIT CARD READER
1	GE36-2	RELO	FILE CABINET (2-DRAWER VERTICAL)
2	GE36-5	RELO	FILE CABINET (5-DRAWER LATERAL)
1	GE38S	NEW	TOUCHSCREEN POS WITH STAND
1	GE38	NEW	POS TERMINAL
1	GE7	RELO	DESK

ARCHIVE

1	E22C	RELO	KTV DISPLAY CABINET
1	E22TV	RELO	KTV TELEVISION
40	GE16	RELO	FOLDING CHAIR
3	GE179	RELO	COMPUTER BASED TRAINING TERMINAL
1	GE82	RELO	TORPEDO WASTE RECEPTACLE
1	GE83	RELO	SOILED LINEN RECEPTACLE
30	GE88	RELO	LOCKERS (6 TIER/LOUVERED DOORS)
3	R51	EXIST	CUSTOMER WAITING CHAIR
2	R51	RELO	CUSTOMER WAITING CHAIR

CONSTRUCTION

2	GE64-4	EXIST	4" PROTECTIVE POST (BACKROOM) (CONTRACTOR SUPPLY)

DOORS

1	DR36CL	NEW	36" LEFT HINGED COOLER DOOR (84"H)
1	DR36CR	NEW	36" RIGHT HINGED COOLER DOOR (84"H)
1	DR36CS	NEW	STRIP DOOR FOR 36" COOLER DOOR
1	DR36FS	NEW	STRIP DOOR FOR 36" FREEZER DOOR (7'H)
2	DR36L	EXIST	3'-0" LEFT HINGED DOOR (DIRECT BUY)
1	DR36L	NEW	3'-0" LEFT HINGED DOOR (DIRECT BUY)
1	DR36R	EXIST	3'-0" RIGHT HINGED DOOR (DIRECT BUY)
1	DR36SD	NEW	3' X 7' DOUBLE ACTION SINGLE PLASTIC DOOR
1	DR45SLRE	NEW	(EXT) 9' RIGHT SINGLE SLIDER AUTO ENTRANCE DOOR UNIT

DRUG-GM

2	GM7-4S	EXIST	4' OTC LIGHT VALANCE (STARTER)
13	GM7-4	EXIST	4' OTC LIGHT VALANCE

ELECTRONICS

2	E102	NEW	THINCLIENT & MONITOR
1	E102	RELO	THINCLIENT & MONITOR
1	E22PC	RELO	KTV CONTROL UNIT
3	E46	NEW	CHARGER KIT FOR WEARABLE TERMINALS
2	E47	NEW	LABLE PRINTER
1	E6	NEW	MFP (FAX PRINTER COPIER SCANNER)
1	E9S	EXIST	EAS PEDESTALS W/ CONTROLLER (3' TO 6' OPENING)
1	GE102	EXIST	PC & MONITOR

GENERAL

6	GE123	EXIST	VENDING MACHINE (VENDOR SUPPLY)
2	GE123	RELO	VENDING MACHINE (VENDOR SUPPLY)
1	GE186	EXIST	MICROWAVE
1	GE1	NEW	FLY ZAPPER (VEST./DOCK)(MOUNT @ 4'-0" AFF TO BOTTOM)
1	GE41	EXIST	CUSTOM MILLWORK COUNTER (CONTRACTOR SUPPLY)
1	GE41	NEW	CUSTOM MILLWORK COUNTER (CONTRACTOR SUPPLY)

PHARMACY

2	R27-4	EXIST	4' PHARMACY WALL CABINET W/ DOORS

PRODUCE

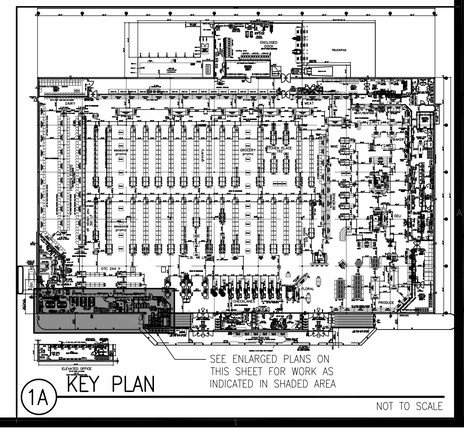
2	P31T	NEW	SERVICE SCALE/UPC PRINTER (TOLEDO)
2	P32C	NEW	PRODUCE SCALE CABINET
1	P50	RELO	3 TIER BASKET STAND

SINKS

1	PL1RX	EXIST	COUNTERTOP SINK (DROP-IN)

STOCK HANDLING

1	ST19MC	NEW	SECURITY CABINET FOR MEDIUM VOLUME
6	ST21	NEW	PALLY CART
18	ST22	NEW	PICKER CART
6	ST8-3226	NEW	STAGING PALLET
12	ST8-4826	NEW	STAGING PALLET
2	ST8-4832	NEW	STAGING PALLET
2	ST8-4848	NEW	STAGING PALLET



SEE ENLARGED PLANS ON THIS SHEET FOR WORK AS INDICATED IN SHADED AREA

1A KEY PLAN

NOT TO SCALE

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SEAL

CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

KROGER FIXTURE PLAN AND SCHEDULE

SHEET TITLE

REVISIONS △

MARK	DATE	DESCRIPTION

PROJECT NO: CPS2015-21.4
CAD DWG FILE: CPS2015-21.4-F1.1
DRAWN BY: JMH
CHK'D BY: JMH

F1.1

SHEET NO.

GENERAL STRUCTURAL NOTES

GENERAL

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A., FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

WHENEVER EXISTING CONSTRUCTION IS RENOVATED THERE WILL ALWAYS BE SOME COSMETIC DEFECTS DUE TO THE AGE OF THE BUILDING THAT WON'T BE CORRECTED DURING THE RENOVATION. THESE DEFECTS INCLUDE SAGGING FLOORS, MINOR CRACKS IN MASONRY WALLS, CRACKS IN SHEETROCK OR PLASTER THAT IS LEFT IN PLACE, ETC. THIS IS TO BE EXPECTED BY THE OWNER UNLESS OTHERWISE NOTED ON THE DRAWINGS.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR EACH STRUCTURAL COMPONENT. THESE SHOP DRAWINGS SHALL HAVE BEEN CHECKED BY, AND STAMPED WITH THE APPROVAL OF, THE CONTRACTOR. DETAILS SHOWN ON THE SHOP DRAWINGS SHALL BE COMPLETE WITH RESPECT TO DIMENSIONS & DESIGN CRITERIA. DIMENSIONS TO EXISTING FRAMING SHALL BE PROVIDED BY THE CONTRACTOR IN COORDINATION WITH THE STEEL SUPPLIER. ALL EXISTING DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE.

REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS LIMITED TO COMPLIANCE OF THE COMPLETED STRUCTURE WITH THE DESIGN CONCEPT AND INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS, QUANTITIES, PERFORMANCE, SAFETY, COORDINATION WITH OTHER WORKS, AND ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS. REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT.

DIMENSIONS

THE CONTRACTOR, BEFORE STARTING ANY WORK, SHALL CHECK ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS, RELATING TO GRID LINES, COLUMN AND WALL LOCATIONS, STRUCTURAL AND FINISHED FLOOR ELEVATIONS, MEMBER SIZES, ETC., WITH THE ARCHITECTURAL DRAWINGS. IF ANY DISCREPANCY IS NOTICED, IT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER AND WORK SHALL NOT COMMENCE UNTIL INSTRUCTIONS ARE RECEIVED FROM THE ENGINEER.

THE CONTRACTOR SHALL SEEK INSTRUCTION FROM THE ENGINEER FOR ANY DIMENSION NOT GIVEN OR OBTAINABLE FROM THE DRAWINGS. THE CONTRACTOR SHALL NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THESE DRAWINGS. ANY EXISTING DIMENSIONS THAT VARY BY MORE THAN 12" FROM DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.

ASSUMPTIONS REGARDING EXISTING CONSTRUCTION

FOR PURPOSES OF THESE NOTES, ASSUMPTION SHALL BE DEFINED AS " TO BELIEVE, THINK OR SUPPOSE A CONDITION TO BE TRUE." AN ASSUMPTION CANNOT BE CONFIRMED BY THE STRUCTURAL ENGINEER BECAUSE IT IS BEYOND HIS SCOPE OF SERVICES AND/OR EXPERTISE. IF THE CLIENT REQUIRES CONFIRMATION OF AN ASSUMPTION, THEN ANOTHER EXPERT MUST DO THE NECESSARY CALCULATIONS AND/OR TESTING.

ROOF FRAMING SIZES DENOTED WITH "±" ON THE PLANS ARE ESTIMATED SIZES BASED ON LIMITED FIELD MEASUREMENTS OF FRAMING AND LIKELY SIZES THAT WOULD HAVE BEEN USED DURING ORIGINAL CONSTRUCTION.

THE FOLLOWING ASSUMPTIONS HAVE BEEN MADE REGARDING THE STRENGTHS OF THE VARIOUS EXISTING STRUCTURAL COMPONENTS.

1.	ALLOWABLE SOIL BEARING PRESSURE	2000	PSF
2.	CONCRETE, f'c	3000	PSI
3.	REBAR, fy	60000	PSI
4.	STRUCTURAL STEEL, Fy	36000	PSI
5.	BAR JOISTS, MINIMUM Fy	50000	PSI

SCOPE OF STRUCTURAL ENGINEERING SERVICES

THE STRUCTURAL ENGINEER HAS PERFORMED THE STRUCTURAL DESIGN AND REVIEWED THE ARCHITECTURAL PLANS FOR THIS PROJECT. IF THE OWNER REQUESTS CONSTRUCTION REVIEW SERVICES TO BE INCLUDED IN THE SCOPE AS AN ADDITIONAL SERVICE, THEN THE ARCHITECT, CONTRACTOR (OR OWNER) MUST CONTACT THE STRUCTURAL ENGINEER AT THE FOLLOWING STAGES OF CONSTRUCTION FOR A FIELD REVIEW OF THE WORK:

1. AFTER ERECTION OF THE STRUCTURAL STEEL.
2. AFTER COMPLETION OF THE STRUCTURAL SYSTEM, BEFORE INTERIOR FINISHES ARE INSTALLED.
3. AT ANY STAGE OF CONSTRUCTION WHEN DESIGN OR CONSTRUCTION PROBLEMS ARE ENCOUNTERED.

A "CONSTRUCTION REVIEW REPORT" WILL BE SENT TO THE CONTRACTOR AND THE ARCHITECT FOLLOWING EACH FIELD TRIP.

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF L'YSAGHT & ASSOCIATES' RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL ASSUMED EXISTING CONDITIONS SHOWN ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

ABBREVIATIONS

AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
BOS	BOTTOM OF STEEL
C/C	CENTER TO CENTER
CJ	CONTROL/CONSTRUCTION JOINT
CL	CENTER-LINE
DBE	DECK BEARING ELEVATION
DJ	DOWELLED JOINT (IN SLAB)
DJ	DOUBLE JOIST (AT ROOF)
EJ	EXPANSION JOINT
EOS	EDGE OF SLAB
EW	EACH WAY
EX.	EXISTING
FFE	FINISH FLOOR ELEVATION
JBE	JOIST BEARING ELEVATION
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
SER	STRUCTURAL ENGINEER-OF-RECORD
SIM	SIMILAR
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOJ	TOP OF JOIST
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WP	WORK POINT
WWF	WELDED WIRE FABRIC

CODE

VIRGINIA UNIFORM STANDARD BLDG CODE 2012 (IBC 2012)
STRUCTURAL LOADING PER ASCE 7-2010

DESIGN DATA

RISK CATEGORY	II	
FLOOR LIVE LOAD (SLABS ON GRADE)	100	PSF
ROOF DEAD LOAD (non-ballasted roof)	10	PSF
ROOF DEAD LOAD (ballasted roof)	20	PSF
ROOF COLLATERAL LOAD	5	PSF
COLLATERAL LOADS SHALL BE ADDED TO DEAD FOR MAXIMUM GRAVITY LOAD CASES, BUT IGNORED FOR UPLIFT LOAD CASES.		
ROOF LIVE LOAD (REDUCIBLE)	20	PSF
GROUND SNOW LOAD, Pg	30	PSF
SNOW THERMAL FACTOR, Ct	1.0	
SNOW EXPOSURE FACTOR, Ce	1.0	
SNOW IMPORTANCE FACTOR, Is	1.0	
FLAT ROOF SNOW LOAD (NOT INCLUDING RAIN ON SNOW), Pf	21.0	PSF
MINIMUM ROOF SNOW LOAD FOR LOW SLOPE ROOFS, Pm	20	PSF
WIND DESIGN DATA		
ULTIMATE DESIGN WIND SPEED, Vult, (3-SECOND GUST)	115	MPH
NOMINAL DESIGN WIND SPEED, Vasd	90	MPH
RISK CATEGORY	II	
WIND EXPOSURE	B	
INTERNAL PRESSURE COEFFICIENT	+/- 0.18	
CORNER ZONE "a" DISTANCE FOR COMPONENTS	11.0	FT

Roof ULTIMATE Design Wind Pressures for Components & Cladding Design

Effective Wind Area (ft^2)	Zone 1 Positive Pressure (psf)	Zone 1 Negative Pressure (psf)	Zone 2 Positive Pressure (psf)	Zone 2 Negative Pressure (psf)	Zone 3 Positive Pressure (psf)	Zone 3 Negative Pressure (psf)
10	16.0	-23.8	16.0	-34.9	16.0	-60.1
20	16.0	-23.2	16.0	-35.7	16.0	-49.8
50	16.0	-22.4	16.0	-30.1	16.0	-36.1
100 or more	16.0	-21.8	16.0	-25.8	16.0	-25.8

Wall ULTIMATE Design Pressures for Components & Cladding Design

Effective Wind Area (ft^2)	Zone 4 Positive Pressure (psf)	Zone 4 Negative Pressure (psf)	Zone 5 Positive Pressure (psf)	Zone 5 Negative Pressure (psf)
10	23.8	-25.8	23.8	-31.9
20	22.1	-24.7	22.1	-29.1
50	21.3	-23.3	21.3	-26.9
100 or more	20.2	-22.2	20.2	-24.7

TO CONVERT COMPONENT WIND PRESSURES FOR ALLOWABLE STRESS DESIGN, MULTIPLY BY 0.6, IN ACCORDANCE WITH IBC 2012/ASCE-7 2010 ALLOWABLE STRESS LOAD COMBINATIONS.

SEISMIC DESIGN DATA (ENTIRE STORE)		
MAPPED SPECTRAL RESPONSE ACCELERATION, Ss	.187	
MAPPED SPECTRAL RESPONSE ACCELERATION, S1	.075	
SEISMIC IMPORTANCE FACTOR, I	1.0	
SITE CLASS	D	
DESIGN SPECTRAL RESPONSE ACCELERATION, Sds	.200	
DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1	.120	
SEISMIC DESIGN CATEGORY	B	
BASIC SEISMIC FORCE RESISTING SYSTEM	INTERMED. REINF MASONRY SHEAR WALLS	
RESPONSE MODIFICATION FACTOR, R	3.5	
SEISMIC RESPONSE COEFFICIENT, Cs	.057	
DESIGN BASE SHEAR	274	KIPS
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE	

BUILDING CODE REQUIREMENTS FOR EXISTING BUILDINGS

SECTIONS 3403 AND 3404 OF THE BUILDING CODE STATE THAT ADDITIONS OR ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL CONFORM WITH THE REQUIREMENTS OF THE CODE FOR NEW CONSTRUCTION. PORTIONS OF THE STRUCTURE NOT ALTERED AND NOT AFFECTED BY THE ALTERATION ARE NOT REQUIRED TO COMPLY WITH THE CODE REQUIREMENTS FOR A NEW STRUCTURE.

SECTIONS 3403 AND 3404 OF THE BUILDING CODE STATE THAT ADDITIONS OR ALTERATIONS TO AN EXISTING STRUCTURE SHALL NOT INCREASE THE GRAVITY LOAD FORCE IN ANY STRUCTURAL ELEMENT BY MORE THAN 5 PERCENT, UNLESS THE INCREASED FORCES ON THE ELEMENT ARE STILL IN COMPLIANCE WITH THE CODE FOR NEW STRUCTURES, NOR SHALL THE STRENGTH OF ANY STRUCTURAL ELEMENT BE DECREASED TO LESS THAN THAT REQUIRED BY THIS CODE FOR NEW STRUCTURES. WHERE REPAIRS ARE MADE TO STRUCTURAL ELEMENTS OF AN EXISTING BUILDING, AND UNCOVERED STRUCTURAL ELEMENTS ARE FOUND TO BE UNSOUND OR OTHERWISE STRUCTURALLY DEFICIENT, SUCH ELEMENTS SHALL BE MADE TO CONFORM TO THE REQUIREMENTS FOR NEW STRUCTURES.

IN ADDITION, ALTERATIONS OR ADDITIONS TO AN EXISTING STRUCTURE THAT ARE NOT STRUCTURALLY INDEPENDENT SHALL NOT INCREASE THE LATERAL LOADS ON AN EXISTING STRUCTURE BY MORE THAN 10 PERCENT FROM THE UNALTERED STRUCTURE. WHEN ADDITIONS ARE STRUCTURALLY INDEPENDENT OF THE EXISTING STRUCTURE, THE EXISTING STRUCTURE SHALL BE PERMITTED TO REMAIN UNALTERED.

THESE CODE PROVISIONS HAVE BEEN INTERPRETED AS FOLLOWS:

1. THE BUILDING DOES NOT REQUIRE A FULL LATERAL ANALYSIS BECAUSE THE LATERAL FORCE RESISTING SYSTEM WILL NOT BE ALTERED DURING THIS RENOVATION.
2. ALL EXISTING GRAVITY ELEMENTS THAT WILL BE ALTERED OR WHERE LOADS WILL BE INCREASED MUST BE CHECKED FOR DESIGN LOADS SHOWN ABOVE AND REINFORCED AS NECESSARY.
3. UNSOUND OR DEFECTIVE STRUCTURAL ELEMENTS MUST BE REPAIRED OR REPLACED.

CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," AND ACI 301, " SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:

FOOTINGS, MISC. CONCRETE	3000 PSI
INTERIOR SLABS-ON-GRADE	3500 PSI
EXTERIOR SLABS-ON-GRADE	4000 PSI

USE WATER REDUCING ADMIXTURES TO REDUCE WATER, INCREASE WORKABILITY AND DECREASE SHRINKAGE CRACKS. USE A MID-RANGE WATER REDUCING ADMIXTURE FOR SLABS.

SLAB-ON-GRADE CONSTRUCTION

PLACE FLOOR SLAB ON A WELL COMPACTED BASE. THE SUBGRADE SHALL BE GRANULAR, NON-EXPANSIVE SOIL (THAT IS, WITHOUT CLAY), WHICH HAS BEEN COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY (STANDARD PROCTOR TESTING) AND VERIFIED BY ON-SITE TESTING.

SLAB TO BE CONSTRUCTED WITH FIBER REINFORCING IN CONCRETE MIX IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

CONCRETE STRENGTH SHALL BE AS NOTED ABOVE. USE A WATER REDUCING ADMIXTURE TO REDUCE WATER, INCREASE WORKABILITY AND DECREASE SHRINKAGE CRACKS.

USE 6% AIR ENTRAINMENT ON EXTERIOR SLABS. DO NOT USE AIR ENTRAINMENT ON INTERIOR SLABS (2% MAXIMUM ENTRAPPED AIR.)

THE CONTROL JOINT SPACING SHALL BE APPROXIMATELY 12' FOR A 4" THICK SLAB. PLACE CONTROL JOINTS TO AVOID REENTRANT CORNERS. MAKE SAWCUTS TO FORM WEAKENED PLANE CONTROL JOINTS AS SOON AS POSSIBLE.

LIGHTLY DAMPEN THE SUBGRADE BEFORE PLACING CONCRETE TO PREVENT THE SUBGRADE FROM ABSORBING WATER FROM CONCRETE MIX. APPLY WATER AT NEARLY THE SAME RATE IT SOAKS INTO THE SUBGRADE SURFACE.

STEEL TROWEL THE CONCRETE TO A SHINY FINISH WHICH RESULTS IN A HARD, DENSE SURFACE.

CURE CONCRETE SLABS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

LAP ALL BAR SPLICES IN CONCRETE AS SPECIFICALLY CALLED FOR, BUT AT LEAST 36 BAR DIAMETERS (18" MINIMUM) FOR TENSION OR COMPRESSION, UNLESS NOTED OTHERWISE. HORIZONTAL BARS WITH OVER 12" OF CONCRETE POURED BELOW SHALL BE LAPPED 48 BAR DIAMETERS MINIMUM.

LAP BAR SPLICES IN GROUTED MASONRY 72 BAR DIAMETERS U.N.O. AT CONTRACTOR'S OPTION, MECHANICAL BAR SPLICES MAY BE SUBSTITUTED FOR LAP SPLICES IN GROUTED MASONRY.

PROVIDE DOWELS IN WALL FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO VERTICAL STEEL EXTENDING 36 BAR DIAMETERS INTO FOOTING (UNLESS ENDS ARE HOOKED), & 72 BAR DIAMETERS INTO CMU WALLS, UNLESS NOTED OTHERWISE.

CONCRETE MASONRY

CONCRETE MASONRY UNITS SHALL BE ERECTED AS LOAD BEARING CONCRETE MASONRY. COMPLY WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530, LATEST EDITION)" AND "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1, LATEST EDITION)."

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM SPECIFICATIONS FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS (ASTM C90). MORTAR SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY (ASTM C270), TYPE "S." THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY, f'm = 1500 PSI.

USE QUIK-BRIK TYPE MASONRY UNITS TO MATCH EXISTING WALLS AT NEW WORK IN FRONT AREAS OF BUILDING.

LAP SPLICES IN VERTICAL REBARS SHALL BE 72 BAR DIAMETERS UNLESS NOTED OTHERWISE. MECHANICAL SPLICES MAY BE SUBSTITUTED FOR LAP SPLICES.

PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. IN ALL CMU WALLS. USE LADDER TYPE DUR-O-WALL REINFORCEMENT, HOT DIP GALVANIZED AFTER FABRICATION. LONGITUDINAL WIRES SHALL BE A MINIMUM OF (2) NO. 9 GAGE. LOCATE JOINT REINFORCEMENT IN FIRST AND SECOND BED JOINTS, 8" APART IMMEDIATELY ABOVE LINTELS AND BELOW SILLS AT OPENINGS. REINFORCEMENT SHALL NOT EXTEND THROUGH VERTICAL MASONRY CONTROL JOINTS. AT CMU WALLS WITH BRICK VENEER, JOINT REINFORCING SHALL HAVE (3) WIRES: ONE AT EACH CMU FACE SHELL & ONE IN BRICK COURSING.

ALL GROUT USED TO FILL REINFORCED MASONRY CAVITIES AND SHOWN AT OTHER LOCATIONS ON THE PLANS SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

MASONRY WALLS SHALL BE BRACED IN ACCORDANCE WITH THE "MASONRY WALLBRACING DESIGN HANDBOOK", LATEST EDITION, PUBLISHED BY THE MASON CONTRACTORS ASSOCIATION OF AMERICA.

STRUCTURAL STEEL

FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL OF BUILDINGS," WHERE THE MATERIAL USED CONSISTS OF PLATES, SHAPES OR BARS.

STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS. STEEL COLUMNS BELOW GRADE THAT ARE NOT ENCASED IN CONCRETE SHALL BE FIELD PAINTED WITH A COALTAR EPOXY COMPOUND TO PREVENT CORROSION.

THE STEEL USED SHALL HAVE THE FOLLOWING MINIMUM YIELD STRESS:

STRUCTURAL STEEL WIDE FLANGE SHAPES	50 KSI
STRUCTURAL PIPE SHAPES	35 KSI
STRUCTURAL TUBE SHAPES	46 KSI
MISCELLANEOUS SHAPES, BARS AND PLATES	36 KSI

USE 3/4" DIAMETER A-325 BOLTS FOR ALL STEEL TO STEEL CONNECTIONS U.N.O. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION U.N.O. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES OF A CONNECTION ARE IN FIRM CONTACT. BOLTS SUBJECT TO DIRECT TENSION SHALL BE FULLY PRE-TENSIONED IN ACCORDANCE WITH AISC SPECIFICATIONS.

USE ASTM F1554, GR 36 STEEL FOR ALL ANCHOR BOLTS U.N.O.

USE E-70 ELECTRODES FOR ALL SHOP AND FIELD WELDING.

FOR MISCELLANEOUS STEEL NOT SHOWN ON THESE DRAWINGS, SEE ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS.

EXISTING OPEN WEB JOISTS

EXISTING JOISTS SHALL BE REINFORCED FOR ALL CONCENTRATED LOADS OVER 50 LBS THAT ARE NOT APPLIED WITHIN 4" OF A JOIST TOP OR BOTTOM CHORD PANEL POINT (POINT WHERE THE JOIST WEB IS WELDED TO THE TOP OR BOTTOM CHORD OF THE JOIST.) SEE STRUCTURAL DETAILS FOR REINFORCING REQUIREMENTS.

UNDER NO CIRCUMSTANCES SHALL ANY PERSONNEL ATTEMPT TO WALK ON UNBRIDGED JOISTS. ANY EXISTING BRIDGING REMOVED SHALL BE REPLACED WITH EQUIVALENT BRIDGING BEFORE COMPLETION OF WORK.

EXPANSION AND EPOXY ANCHORS

THE CONTRACTOR MAY SELECT THE BRAND(S) OF ANCHORS TO USE ON THIS PROJECT, BUT THE ANCHORS MUST MEET THE MINIMUM LOAD REQUIREMENTS SHOWN IN THE TABLES BELOW. NOTE THAT THESE LOADING REQUIREMENTS ARE BASED UPON MINIMUM EDGE AND SPACING DISTANCES. IF A SMALLER EDGE OR SPACING DIMENSION IS SHOWN ON THE STRUCTURAL DRAWINGS, THE STRUCTURAL ENGINEER WILL HAVE USED A "LOAD ADJUSTMENT FACTOR" ON THE ANCHOR TO ACCOUNT FOR THE REDUCED DIMENSION.

EXPANSION ANCHORS IN CONCRETE

SIZE	EMBED	SHEAR	TENSION	EDGE DIST	SPAC
1/2"	6"	2450#	2310*	7"	7"
5/8"	7"	3330#	3010*	8"	8"
3/4"	8"	4800#	3870*	10"	10"
1"	9"	8000#	8000#	12"	12"

EXPANSION ANCHORS IN GROUT FILLED CMU

SIZE	EMBED	SHEAR	TENSION	EDGE DIST	SPAC
1/2"	3 1/2"	1890#	975#	12"	8"
5/8"	4"	2700#	1460#	16"	8"
3/4"	5"	3110#	1620#	16"	8"

EPOXY ANCHORS IN CONCRETE

SIZE	EMBED	SHEAR	TENSION	EDGE DIST	SPAC
1/2"	6 1/2"	1935#	3755#	8"	9"
5/8"	7 1/2"	3025#	5870#	10"	10"
3/4"	10"	4335#	8455#	14"	14"
1"	12"	7745#	15030#	18"	18"
1 1/4"	15"	12100#	23805#	24"	24"

EPOXY ANCHORS IN GROUT FILLED CMU

SIZE	EMBED	SHEAR	TENSION	EDGE DIST	SPAC
1/2"	5"	1435#	1705#	12"	9"
5/8"	6"	3025#	2265#	12"	10"
3/4"	7"	4335#	3140#	12"	14"

EPOXY ANCHORS IN HOLLOW CMU

SIZE	EMBED	SHEAR	TENSION	EDGE DIST	SPAC
3/8"	2"	740#	525#	12"	8"
1/2"	2"	1230#	525#	12"	8"

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AN ONLINE SHOPPING ADDITION FOR:
KROGER R-391
ROANOKE, VA
ROUTE 460 EAST

PROJECT INFO KROGER MID-ATLANTIC

11-16-2015
DATE CONSTRUCTION SET

GENERAL STRUCTURAL NOTES

SHEET TITLE

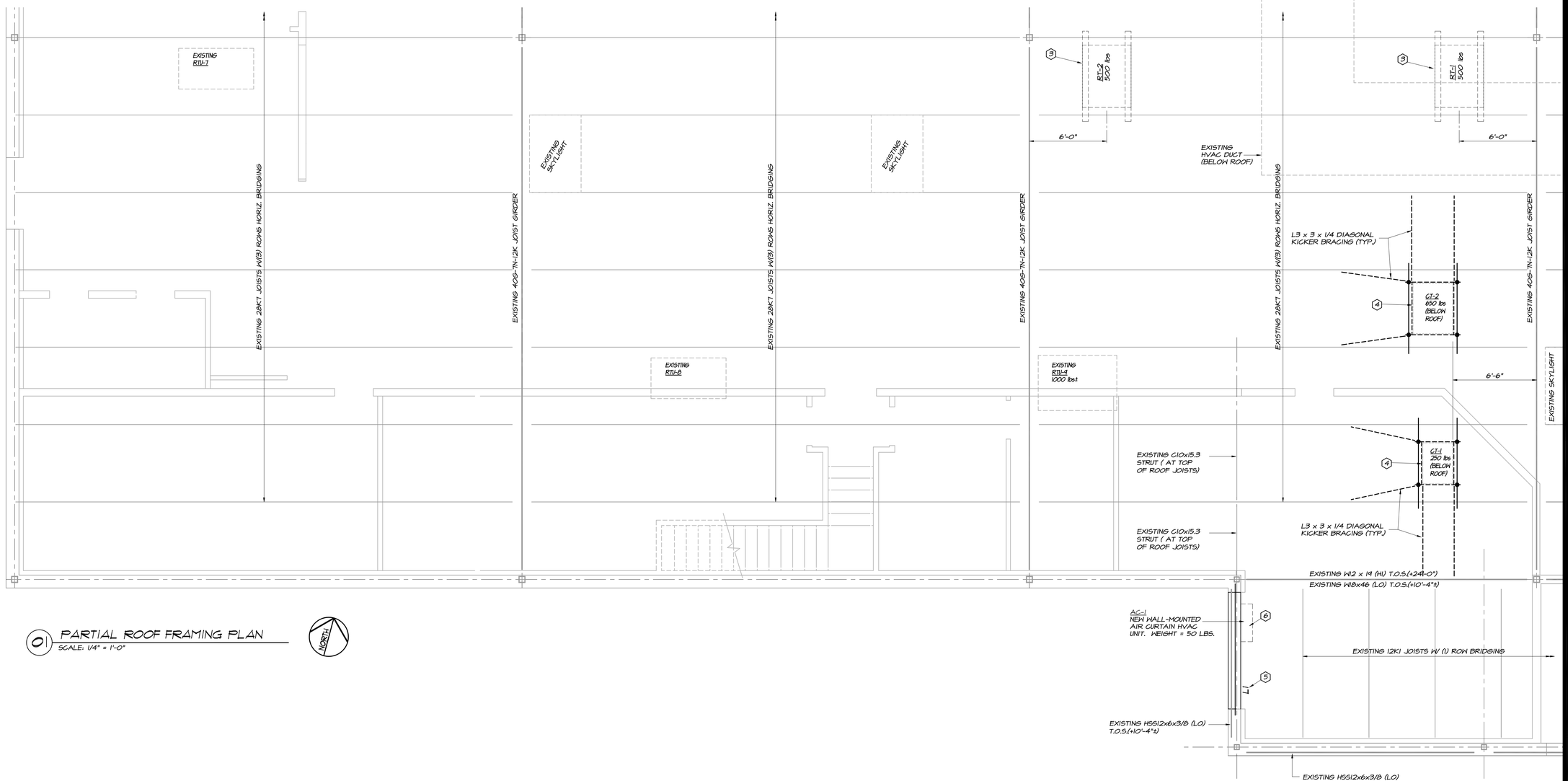
REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: LA-10803
CAD DWG FILE: 10803-S01.DWG
DRAWN BY: PMK
CHK'D BY: JWH

S0.1

SHEET NO.



01 PARTIAL ROOF FRAMING PLAN

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

NORTH

ROOF FRAMING GENERAL NOTES:

1. THE EXISTING ROOF DECK IS ASSUMED TO BE 1-1/2" - 22 GA. TYPE "B" WIDE RIB ROOF DECK. USE SIMILAR DECK TO PATCH ANY EXISTING ROOF PENETRATIONS TO BE ABANDONED.
2. SEE DETAIL 02/S3.3 FOR JOIST REINFORCING AT CONCENTRATED LOADS. REINFORCING IS NOT REQUIRED IF LOAD OCCURS WITHIN 4" OF A JOIST PANEL POINT.
3. REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR LOCATIONS OF PENETRATIONS THROUGH ROOF. PROVIDE 4 x 4 x 1/4 ANGLE FRAMES AROUND OPENINGS OVER 6" SQUARE. SEE DETAIL 04/S3.3 FOR FRAME CONSTRUCTION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THIS PLAN.
5. EXISTING JOIST BRIDGING ANGLES NOT SHOWN ON THIS PLAN. EXISTING BRIDGING SHALL NOT BE REMOVED TO INSTALL NEW WORK WITHOUT REPLACING BRIDGING AT COMPLETION OF WORK.
6. SEE SHEET S0.1 FOR ADDITIONAL GENERAL STRUCTURAL NOTES.

ROOF FRAMING PLAN NOTES:

1. SEE DETAIL 04/S3.3 FOR ROOF FRAME CONSTRUCTION AROUND NEW SMALL ROOF-TOP HVAC OR REFRIGERATION EQUIPMENT OR ROOF PENETRATIONS. COORDINATE FINAL LOCATION WITH MECHANICAL DRAWINGS & FIELD VERIFY ALL EXISTING FRAMING DIMENSIONS IN AREAS WITH NEW EQUIPMENT FRAMES. AT NEW EQUIPMENT THAT IS A REPLACEMENT FOR EXISTING EQUIPMENT, EXISTING ANGLE FRAME SUPPORTS MAY BE RE-USED IF EQUIVALENT TO SUPPORTS SHOWN ON DETAIL 04/S3.3.
2. NOT USED.
3. SEE DETAILS A5D-B1 AND A5D-B2A ON ARCHITECTURAL DRAWINGS FOR CURB SUPPORT FOR NEW REFRIGERATION CONDENSER. DO NOT SHIFT NEW CONDENSER LOCATION ON EXISTING ROOF WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. SEE DETAIL 05/S3.3 FOR NEW STEEL CHANNEL FRAMING SUPPORTING CURB ON TOP OF EXISTING ROOF DECK.
4. NEW REFRIGERATION COMPRESSOR TO BE SUPPORTED ON L4x3x1/4 (LLV) STEEL ANGLE FRAME SUSPENDED FROM ROOF STRUCTURE ABOVE. SEE PLAN FOR APPROXIMATE UNIT HEIGHT. SUPPORT WITH MINIMUM (1) 3/8" DIA. THREADED ROD AT EACH CORNER OF UNIT HUNG FROM (2) L2x2x1/4 ANGLE STRUTS OR COLD-FORMED STEEL CHANNEL STRUTS SPANNING BETWEEN JOIST TOP OR BOTTOM CHORDS. SEE DETAIL 06/S3.3.
5. SEE LINTEL SCHEDULE FOR NEW STEEL LINTEL AT NEW DOOR OPENING IN EXISTING QUIK-BRIK MASONRY WALL. FIELD VERIFY EXISTING WALL IS 12" WIDTH CMU PRIOR TO FABRICATING LINTEL.
6. MOUNT NEW AIR-CURTAIN UNIT TO GROUT-FILLED CMU WALL PER MANUFACTURER'S RECOMMENDATIONS.

MASONRY LINTEL SCHEDULE

MK	DESCRIPTION	MIN. BRNG	MAX. OPENING*	DETAIL
L1	W8x13 W/ 1/4" x 11" BOTTOM PLATE FULL LENGTH. CENTER PLATE ON BEAM. SHOP WELD BOTTOM PLATE TO STEEL BEAM W/ 3/16" x 3" FILLET WELDS AT 12" O.C. BOTH SIDES OF BEAM. FILL CMU CORES W/ GROUT AT LINTEL FOR MOUNTING OF NEW HVAC UNIT.	8"	9'-4"	EXISTING 12x6x3/8 TUBE BEAM EXISTING 12" QUIK-BRIK CMU WALL NEW QUIK-BRIK AS NEEDED. 7'-8" A.F.F. NEW W8x13 BEAM W/ 1/4" x 11" CONT. BOTTOM PL.

* MAX. OPENING IS THE MAXIMUM CLEAR OPENING SIZE THAT LINTEL MAY BE USED FOR. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL OPENING SIZE(S).

EXISTING BUILDING INFORMATION

THE EXISTING BUILDING FRAMING SIZES AND SPACINGS SHOWN ON THESE DRAWINGS ARE TAKEN FROM PREVIOUS BUILDING DESIGN STRUCTURAL DRAWINGS AND LIMITED VISUAL OBSERVATIONS OF EXISTING CONDITIONS. ACTUAL SIZES AND SPACINGS OF ALL EXISTING FRAMING HAS NOT BEEN FIELD VERIFIED. CONTRACTOR SHALL FIELD CONFIRM ACTUAL SIZES, SPACINGS, AND ELEVATIONS OF FRAMING IN AREAS OF NEW WORK AND NOTIFY STRUCTURAL ENGINEER IF ACTUAL SIZES OR SPACINGS ARE NOT IN AGREEMENT WITH INFORMATION SHOWN ON THESE DRAWINGS.

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AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-16-2015
DATE CONSTRUCTION SET

PARTIAL ROOF FRAMING PLAN

SHEET TITLE

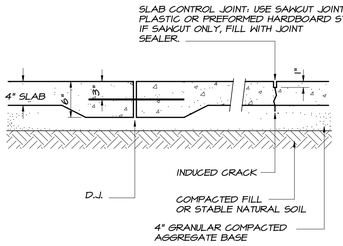
REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO:	LA-10803
CAD DWG FILE:	10803-S12.DWG
DRAWN BY:	PMK
CHK'D BY:	JWH

S1.2

SHEET NO.



NOTES:

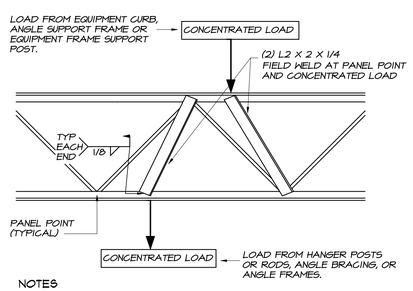
SLAB CONCRETE MIX SHALL HAVE CELLULOSE FIBER REINFORCING INCLUDED. REFER TO CAST IN PLACE SLAB SPECIFICATIONS FOR REQUIREMENTS.

USE A DOWELED CONSTRUCTION JOINT (D.J.) BETWEEN POURS. PROVIDE 3/4" DIA. x 16" DOWELS AT 24" O.C. W/ 8" EMBEDMENT IN EACH POUR. LUBRICATE ONE END TO PREVENT BOND W/ CONCRETE.

SLAB IS DESIGNED FOR COMMERCIAL OCCUPANCY WITH A MAXIMUM LIVE LOAD OF 100 PSF.

01 TYPICAL NEW INTERIOR SLAB ON GRADE (INFILL SLABS) 1" = 1'-0"

REINFORCE JOIST WHENEVER CONCENTRATED LOAD DOES NOT OCCUR WITHIN 4" OF JOIST PANEL POINT.



NOTES

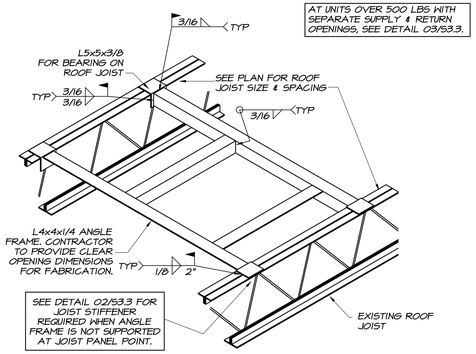
REINFORCING ANGLES MUST BE ADDED AT CONCENTRATED LOADS TO ELIMINATE EXCESSIVE BENDING OF THE THE TOP AND/OR BOTTOM CHORDS.

CONTACT STRUCTURAL ENGINEER IF CONCENTRATED LOAD IS GREATER THAN 500#.

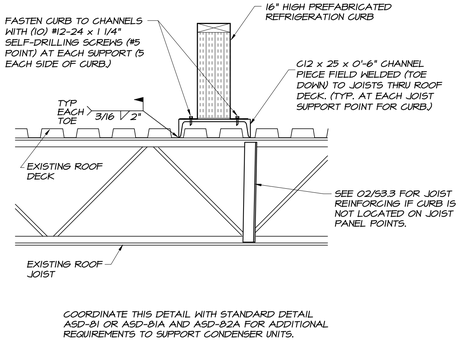
02 JOIST STIFFENER DETAIL AT CONCENTRATED LOADS NOT AT PANEL POINTS 1" = 1'-0"

03 NOT USED

.

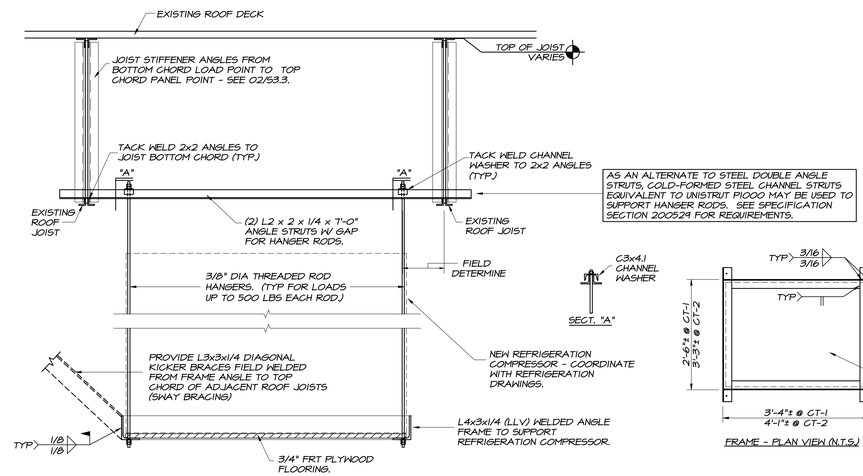


04 ANGLE FRAME AT ROOF OPENINGS & ROOF-TOP HVAC EQUIPMENT LESS THAN 500 LBS N.T.S.



COORDINATE THIS DETAIL WITH STANDARD DETAIL ASD-B1 OR ASD-B1A AND ASD-B2A FOR ADDITIONAL REQUIREMENTS TO SUPPORT CONDENSER UNITS.

05 REFRIGERATION CURB SUPPORT AT EXISTING ROOF JOISTS N.T.S.



06 REFRIGERATION COMPRESSOR FRAME & HANGER SUPPORT SYSTEM N.T.S.

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AN ONLINE SHOPPING ADDITION FOR:
KROGER R-391
ROUTE 460 EAST ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-16-2015
DATE CONSTRUCTION SET

FRAMING DETAILS

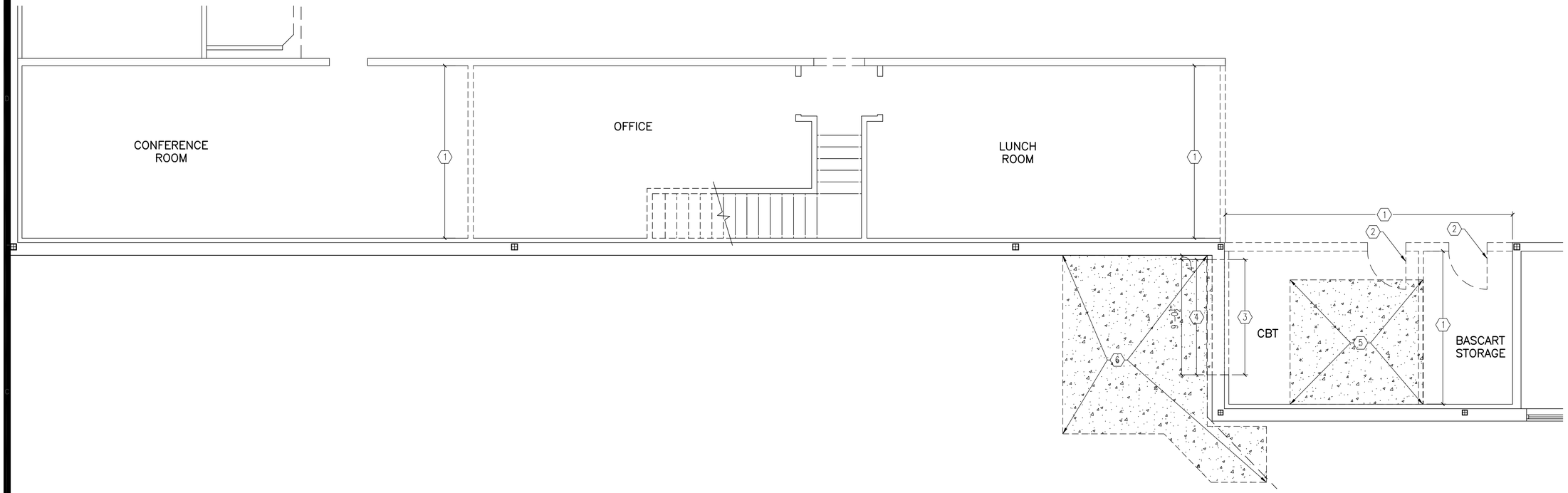
SHEET TITLE

REVISIONS

MARK	DATE	DESCRIPTION

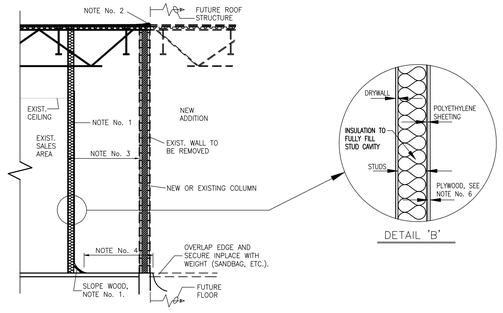
PROJECT NO: LA-10803
CAD DWG FILE: 10803-S33.DWG
DRAWN BY: PMK
CHK'D BY: JWH

S3.3
SHEET NO.



2C DEMOLITION FLOOR PLAN

SCALE: ¼" = 1'-0"

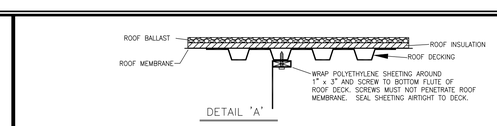


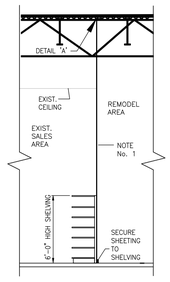
TYPE – 4
NEW CONSTRUCTION, WHERE EXTERIOR WALL IS REMOVED

NOTES:

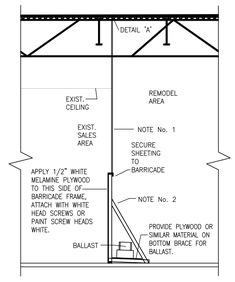
1. 6" MINIMUM STUD PARTITION, 24" O.C. FROM FLOOR TO ROOF DECK WITH **MIN R-19 FIBERGLASS BATT** INSULATION BETWEEN STUDS, COVER AS FOLLOWS:
   ON OPERATIONAL STORE SIDE COVER COMPLETELY WITH 1/2" PAINTED DRYWALL (UNTAPPED). ON NEW ADDITION SIDE COVER COMPLETELY WITH OVERLAPPING 3-MIL POLYETHYLENE SHEETING DUST BARRIER, EXTEND TO EDGE OF EXISTING FLOOR, INSERT SLOPED 2" x 4" IN CORNER SO WATER FLOWS AWAY FROM PARTITION, TAPE FULL LENGTH OF JOINTS, THEN 1/2" PLYWOOD OVER SHEETING. SEE DETAIL 'B'.
2. TEMPORARILY SEAL ROOF EDGE FOR WATER TIGHT CONDITION.
3. PARTITION LOCATION TO BE COORDINATED BETWEEN WORK SPACE REQUIRED AND STORE LAYOUT, KEEP TO A MINIMUM.
4. EXTEND 3-MIL POLYETHYLENE SHEETING TO ADEQUATELY SHED WIND DRIVEN RAIN AWAY FROM OPERATING STORE. COVER POLYETHYLENE SHEETING ON FLOOR WITH FIRE RATED PLYWOOD, WHERE SUBJECT TO DAMAGE.
5. ANY PORTION OF THE SPRINKLER SYSTEM WHICH BECOMES EXPOSED TO POSSIBLE FREEZING TEMPERATURES MUST BE PROTECTED WITH HEAT TAPE & INSULATION.
6. WITH WRITTEN APPROVAL OF THE PROJECT ENGINEER, THE FULL HEIGHT PLYWOOD MAY BE SUBSTITUTED WITH 8'-0" HIGH PLYWOOD & 1' x 2" HORIZONTAL BAT STRIPES INSTALLED ON 5'-0" VERTICAL CENTERS, TO SECURE POLYETHYLENE SHEETS & **FIBERGLASS BATT** INSULATION.

TEMPORARY CONSTRUCTION PARTITION EXTERIOR WALL	DATE: 11/10/11 SCALE: NONE DRAWN: DS/JQ
MASTER SPECIFICATION DETAIL	ASD–162C





TYPE – 1
WITH–IN WALL REMODEL
WITH SHELVING



TYPE – 2
WITH–IN WALL REMODEL
WITHOUT SHELVING

NOTES:

1. 3–MIL POLYETHYLENE SHEETING DUST BARRIER –– USE CLEAR OR FROSTED SHEETING ONLY, BLACK SHEETING IS NOT ACCEPTABLE. TAPE FULL LENGTH OF JOINT, SECURELY ATTACH TO EITHER BACK OF SHELVING OR 2" x 4" WOOD BRACE BARRICADE, AND EXTEND UP TO ROOF DECK AS INDICATED.
2. 2" x 4" WOOD BRACED BARRICADE 8'–0" HIGH, PROVIDE BALLAST ON BOTTOM BRACE TO SECURE BARRICADE IN PLACE, DO NOT NAIL TO FLOOR, (BALLAST –– i.e. – CONCRETE BLOCKS, SANDBAGS or MISCELLANEOUS CONSTRUCTION MATERIALS). BALLAST & KICKERS SHALL BE ON THE WORK AREA SIDE AND NOT ON THE CUSTOMER ACCESS SIDE.
3. ANY PORTION OF THE SPRINKLER SYSTEM WHICH BECOMES EXPOSED TO POSSIBLE FREEZING TEMPERATURES MUST BE PROTECTED FROM FREEZING WITH HEAT TAPE & INSULATION.

TEMPORARY CONSTRUCTION BARRIERS	DATE: 06–01–07 SCALE: NONE DRAWN: DS/JQ
MASTER SPECIFICATION DETAIL	ASD–162A

PLAN NOTES

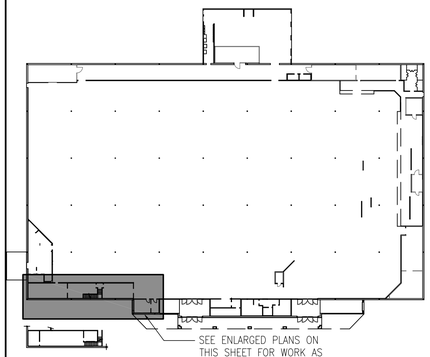
1. REMOVE & DISPOSE OF EXISTING WALL PARTITION COMPLETE INCLUDING ANY ELECTRICAL, HVAC AND/OR PLUMBING THAT OCCURS. SEE ELECTRICAL DRAWINGS FOR MORE DEMOLITION INFORMATION.
2. REMOVE & DISPOSE OF EXISTING DOOR & FRAME.
3. REMOVE & DISPOSE OF PORTION OF EXISTING MASONRY WALL & INT. FURRING AS REQUIRED FOR NEW DOOR OPENING. COORDINATE EXACT WIDTH/HEIGHT W/ STRUCTURAL DRAWINGS AND DOOR SHOP DRAWINGS. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL DETAIL.
4. REMOVE & DISPOSE OF PORTION OF EXISTING CONCRETE CURB AS REQUIRED FOR NEW OPENING.
5. REMOVE & DISPOSE OF EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FREEZER SLAB WORK PER A1.5.
6. REMOVE & DISPOSE OF EXISTING CONCRETE SIDEWALK AS REQUIRED TO ACHIEVE NEW WORK PER A1.1 & A1.5.

GENERAL NOTES

1. ALL FIRE PROTECTION SYSTEM COMPONENTS ARE TO REMAIN OPERATIONAL. GC TO PROVIDE MODIFICATIONS AS REQUIRED BY NEW CONSTRUCTION DOCUMENT DRAWINGS & SPECIFICATIONS AS WELL AS NEW FIRE PROTECTION SHOP DRAWINGS UNLESS NOTED OTHERWISE.
2. THE OWNER SHALL HAVE THE OPTION TO RECLAIM ANY FIXTURE REQUIRING REMOVAL PRIOR TO DISPOSAL.
3. OWNER TO REMOVE ALL TERMINAL/COMPUTER EQUIPMENT FOR DISPOSAL OR RELOCATION.
4. FURNISH & INSTALL TEMPORARY PARTITIONS TO SEPARATE WORK AREAS FROM AREAS ACCESSIBLE TO THE PUBLIC USING PARTITIONS PER ASD–162A & 162C.
5. EXISTING SPRINKLER ROOM, FIRE PROTECTION SPRINKLER SYSTEM, FIRE ALARM AND SMOKE ALARM SYSTEMS TO REMAIN INTACT AND FUNCTIONAL DURING CONSTRUCTION PROCESS.
6. UNLESS SPECIFICALLY INDICATED, ALL STEEL STRUCTURE SHALL REMAIN IN PLACE & UNDISTURBED.
7. REFER TO STRUCT., ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS FOR MORE INFORMATION ON DEMOLITION WORK RELATED AND REQUIRED.
8. REFER TO SHEET AD1.3 FOR CEILING DEMOLITION REQUIREMENTS.
9. PATCH FLOOR SLABS WHERE WALLS ARE REMOVED W/ CONCRETE MATCHING EXISTING COLOR TO PROVIDE A SMOOTH/FLUSH CONDITION.

LEGEND

INDICATES AREA OF REMOVED CONCRETE SLAB/SIDEWALK



1A KEY PLAN

NOT TO SCALE

CAPSTONE
project services, plc
ARCHITECT
333 S. TAMIAMI TRL., SUITE 293
VENICE, FL. 34285

SEAL

CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:

KROGER R–391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

DEMOLITION FLOOR PLAN, NOTES AND DETAILS

SHEET TITLE

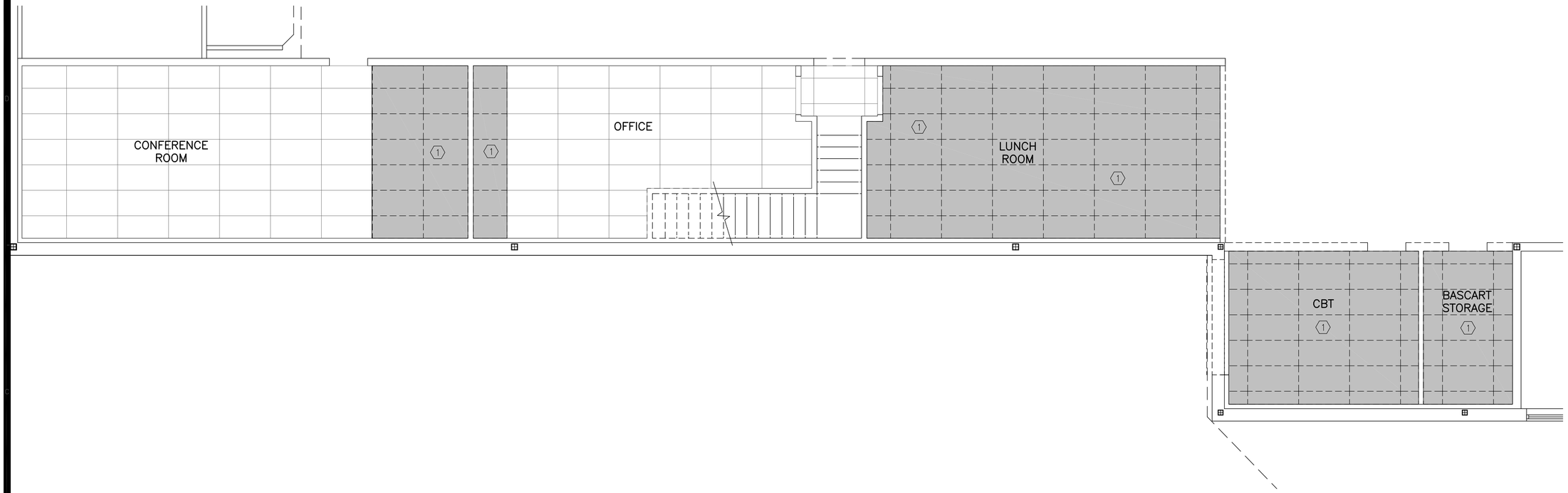
REVISIONS △

MARK	DATE	DESCRIPTION

PROJECT NO: CPS2015–21.4
CAD DWG FILE: CPS2015–21.4–AD1.1
DRAWN BY: JMH
CHK'D BY: JMH

AD1.1

SHEET NO.



3C DEMOLITION REFLECTED CEILING PLAN
SCALE: ¼" = 1'-0"

PLAN NOTES

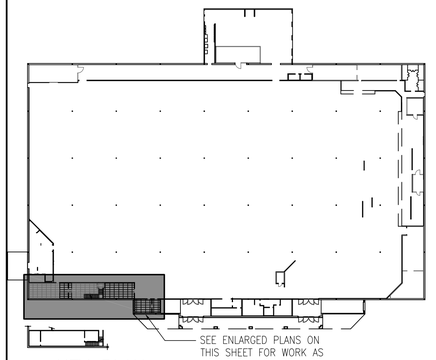
1. REMOVE & DISPOSE OF EXISTING CEILING SYSTEM. SEE HVAC, ELECTRICAL & FIRE PROTECTION DRAWINGS FOR ADDITIONAL WORK.

GENERAL NOTES

1. THE GENERAL CONTRACTOR WILL COORDINATE ALL DEMOLITION WORK WITH THE OWNER, INCLUDING STORE MANAGER, REFRIGERATION CONTRACTOR AND OTHER OWNER'S REPRESENTATIVES.
2. ALL WORK WILL BE SCREENED FROM AREAS OPEN TO CUSTOMER ACCESS USING TEMPORARY WALLS AS INDICATED ON ASD-162A.
3. THE GENERAL CONTRACTOR WILL CUT OFF & CAP ANY ABANDONED PLUMBING VENTS, EXHAUST DUCTS, ETC. PENETRATING THROUGH ROOF FROM BELOW AND PATCH ROOF WITH MATERIALS (METAL DECK, INSULATION BOARD, MEMBRANE ROOFING) TO MATCH EXISTING.

LEGEND

INDICATES AREA OF REMOVED CEILING TILE & GRID SYSTEM.



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CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:
KROGER R-391
ROUTE 460 EAST
ROANOKE, VA

PROJECT INFO: KROGER MID-ATLANTIC
DATE: 11-13-2015
CONSTRUCTION SET

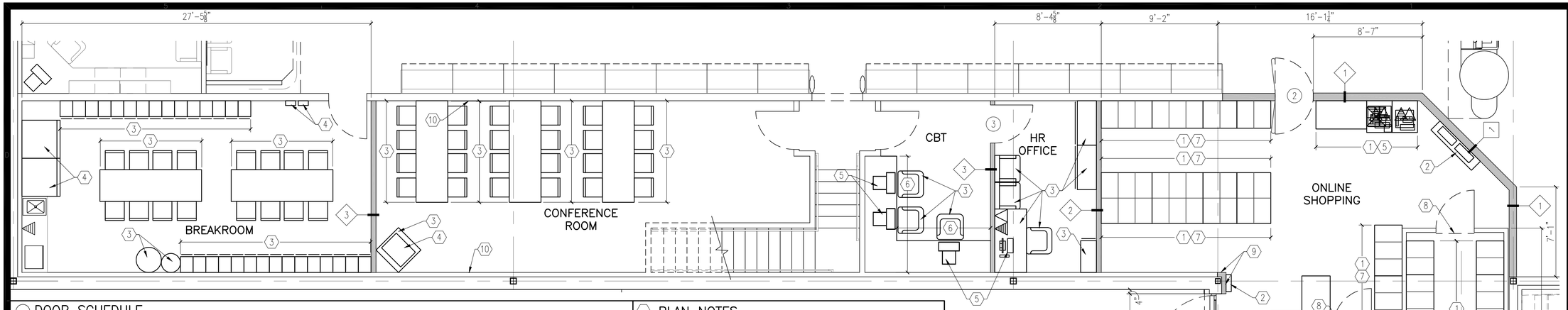
DEMOLITION REFLECTED CEILING PLAN
SHEET TITLE

REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO:	CPS2015-21.4
CAD DWG FILE:	CPS2015-21.4-AD1.3
DRAWN BY:	JMH
CHK'D BY:	JMH

AD1.3
SHEET NO.

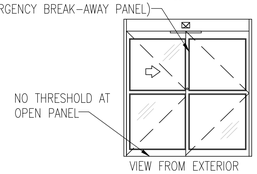


2C FLOOR PLAN

SCALE: ¼" = 1'-0"

○ DOOR SCHEDULE

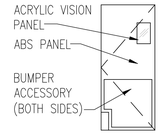
ALUM. FRAME & GLASS SLIDER PACKAGE (SIDE SLIDING PANEL, FIXED SIDE PANEL, ALL EMERGENCY BREAK-AWAY PANEL)



VIEW FROM EXTERIOR

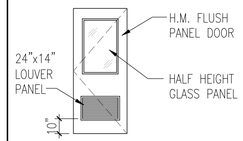
1. FURNISH & INSTALL NEW 9'-0" W. AUTO-SLIDE DOOR PACKAGE (DOOR/GLAZING). FINISH TO MATCH EXISTING MAIN ENTRANCE DOORS. SEE STRUCT. FOR LINTEL REQUIREMENTS.
2. CONTRACTOR TO COORDINATE INSTALLATION OF ALL SUPPLIER INSTALLED DOORS W/ SUPPLIER'S INSTALLER.
3. GLASS TYPES (SEE SPECIFICATION SECTION 088000): TYPE 'E' - 1/4" UNCOATED TINTED (COLOR - MATCH EXIST.) FULLY TEMPERED FLOAT GLASS.
4. FURNISH & INSTALL DOOR HARDWARE SET #007.

(1)



1. INSTALL OWNER FURNISHED 3'-0"x7'-0" ABS TRAFFIC DOOR.
2. FURNISH & INSTALL NEW 3'-0"x7'-0" H.M. FRAME PER ASD-56. PAINT FRAME TO MATCH EXISTING.

(2)

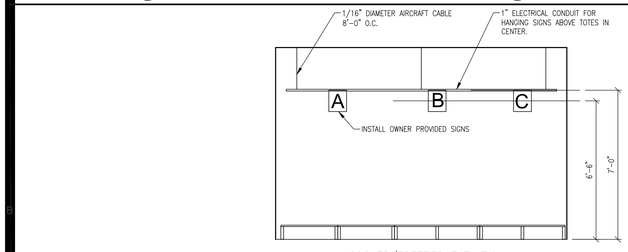


1. FURNISH & INSTALL NEW 3'-0"x7'-0" H.M. FRAME & DOOR W/ GLASS & LOUVERED VENT OPENINGS. PAINT DOOR & FRAME TO MATCH EXISTING.
2. GLASS TYPES (SEE SPEC. SECTION 088000): TYPE 'C' - 1/4" UNCOATED CLEAR FULLY TEMPERED FLOAT GLASS.
3. FURNISH & INSTALL DOOR HARDWARE SET #011.

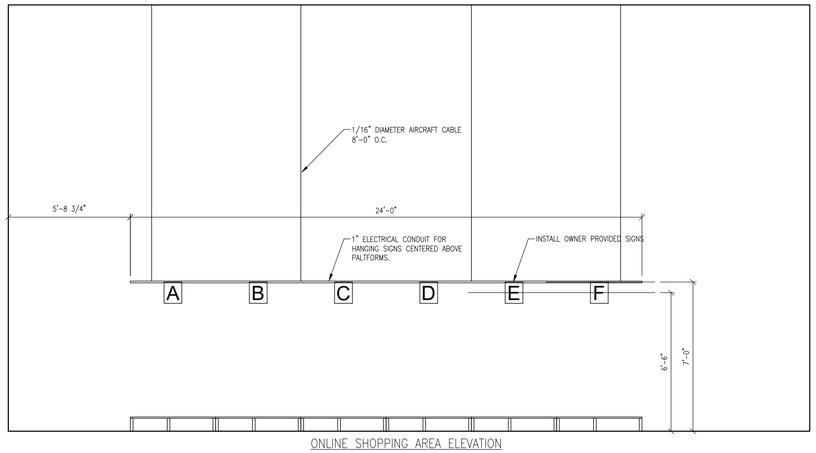
(3)

⬡ PLAN NOTES

1. NEW FIXTURE TO BE FURNISHED BY KROGER AND INSTALLED BY GENERAL CONTRACTOR. NO ELECTRICAL OR PLUMBING WORK REQUIRED.
2. NEW FIXTURE TO BE FURNISHED BY KROGER AND INSTALLED BY GENERAL CONTRACTOR. SEE PLUMBING AND/OR ELECTRICAL FOR MORE INFO..
3. RELOCATED FIXTURE TO BE INSTALLED BY GENERAL CONTRACTOR. NO ELECTRICAL OR PLUMBING WORK REQUIRED.
4. RELOCATED FIXTURE TO BE INSTALLED BY GENERAL CONTRACTOR. SEE PLUMBING AND/OR ELECTRICAL FOR MORE INFO..
5. OWNER TO FURNISH & INSTALL COMPUTER / TERMINAL / REGISTER / P.O.S.. CONTRACTOR TO SUPPLY POWER AS REQUIRED AND COORDINATE INSTALLATION. SEE ELECTRICAL DRAWINGS.
6. INSTALL NEW MILLWORK, FURNISHED BY KROGER. COORDINATE W/ ELEC. DRAWINGS & MILLWORK SHOP DRAWINGS.
7. INSTALL SIGNS ABOVE AND/OR ALONG WALL BEHIND UNITS PER ELEVATIONS 4A/A1.1.
8. PLASTIC STRIP CURTAIN MOUNTED ABOVE INTERIOR OF COOLER/FREEZER DOOR (F.O. / I.C.).
9. FURNISH & INSTALL MATERIALS TO FINISH EXPOSED CORNER W/ ½" GYP. BD. OVER MTL. STUDS @ MAX. 24" O.C.. TAPE SHEATHING ONLY. APPLY ½" FRT PLYWOOD TO LOWER 48" & SEAL JOINT AT FLOOR/WALL. INTENT IS TO PROVIDE FLUSH CONDITION W/ ADJOINING SURFACES.
10. FURNISH & INSTALL MATERIALS (STUDS,SHEATHING,FINISHES) TO PATCH WHERE EXISTING WALL WAS REMOVED.
11. INSTALL KROGER FURN. (2) SCALES & (2) CABINETS. SEE SHEET E4.1.



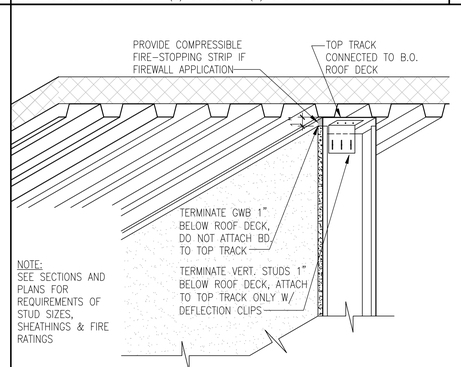
COOLER/FREEZER ELEVATION



ONLINE SHOPPING AREA ELEVATION

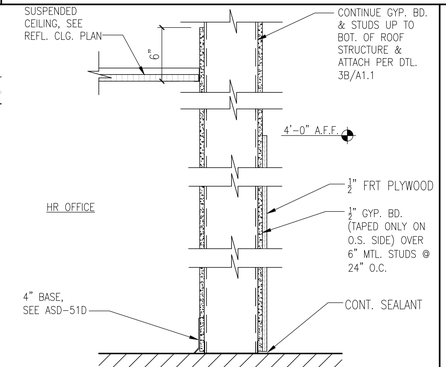
4A TYPICAL SIGN HANGING DETAILS

NOT TO SCALE



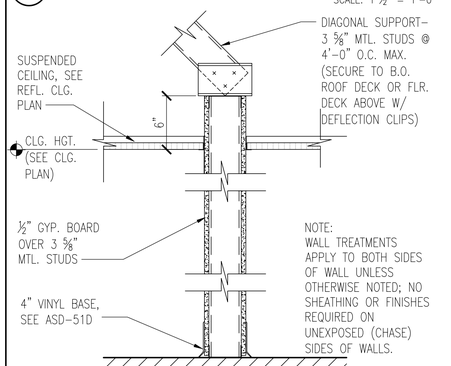
3B PARTITION-TO-ROOF DECK DETAIL

SCALE: 1 ½" = 1'-0"



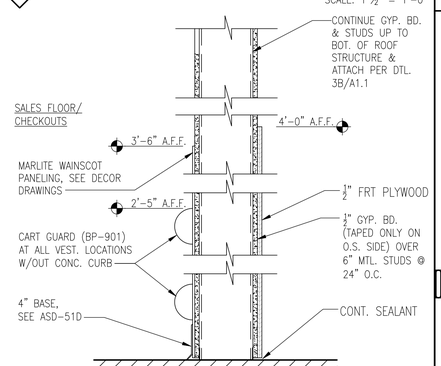
2 PARTITION TYPE

SCALE: 1 ½" = 1'-0"



3 PARTITION TYPE

SCALE: 1 ½" = 1'-0"

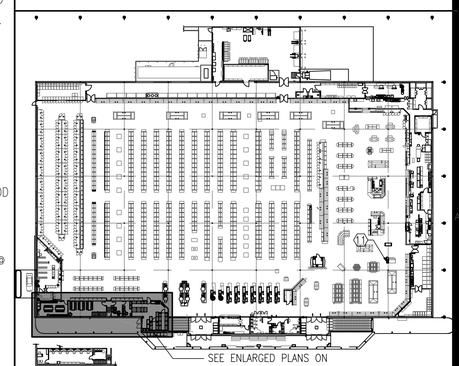


1 PARTITION TYPE

SCALE: 1 ½" = 1'-0"

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE INDICATED OR TO EDGE OF A DOOR/WINDOW OPENING.
2. PATCH AND REPAIR ALL EXISTING WALLS RECEIVING NEW DECOR FINISHES. FINISHES TO INCLUDE PAINT, WALLPAPER, MARLITE, ETC. INTENT IS TO PROVIDE SMOOTH EVEN FINISH. ALL SURFACES ON SALES FLOOR TO RECEIVE NEW FINISH.
3. FURNISH & INSTALL ½" FRT PLYWOOD OVER LOWER 48" OF ALL EXPOSED GYP. BD. SHEATHING EXPOSED IN ONLINE SHOPPING SPACE. SEAL WALL/FLOOR INTERSECTION W/ CONT. SEALANT.
4. INSTALL SOLID FRT WOOD BLOCKING IN ALL WALL LOCATIONS WHERE WALL MOUNTED FIXTURES, EQUIPMENT AND/OR ACCESSORIES ARE TO BE LOCATED. INCLUDING BUT NOT EXCLUSIVE TO:
   - WALL DESKS & MARKER BOARDS
   - SHELVING
   - CONDENSATE PUMP
   - FIRE EXTINGUISHERS



1A KEY PLAN

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VENICE, FL. 34285

SEAL

CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO: KROGER MID-ATLANTIC

DATE: 11-13-2015 CONSTRUCTION SET

FLOOR PLAN, NOTES AND DETAILS

SHEET TITLE

REVISIONS △

MARK	DATE	DESCRIPTION

PROJECT NO: CPS2015-21.4

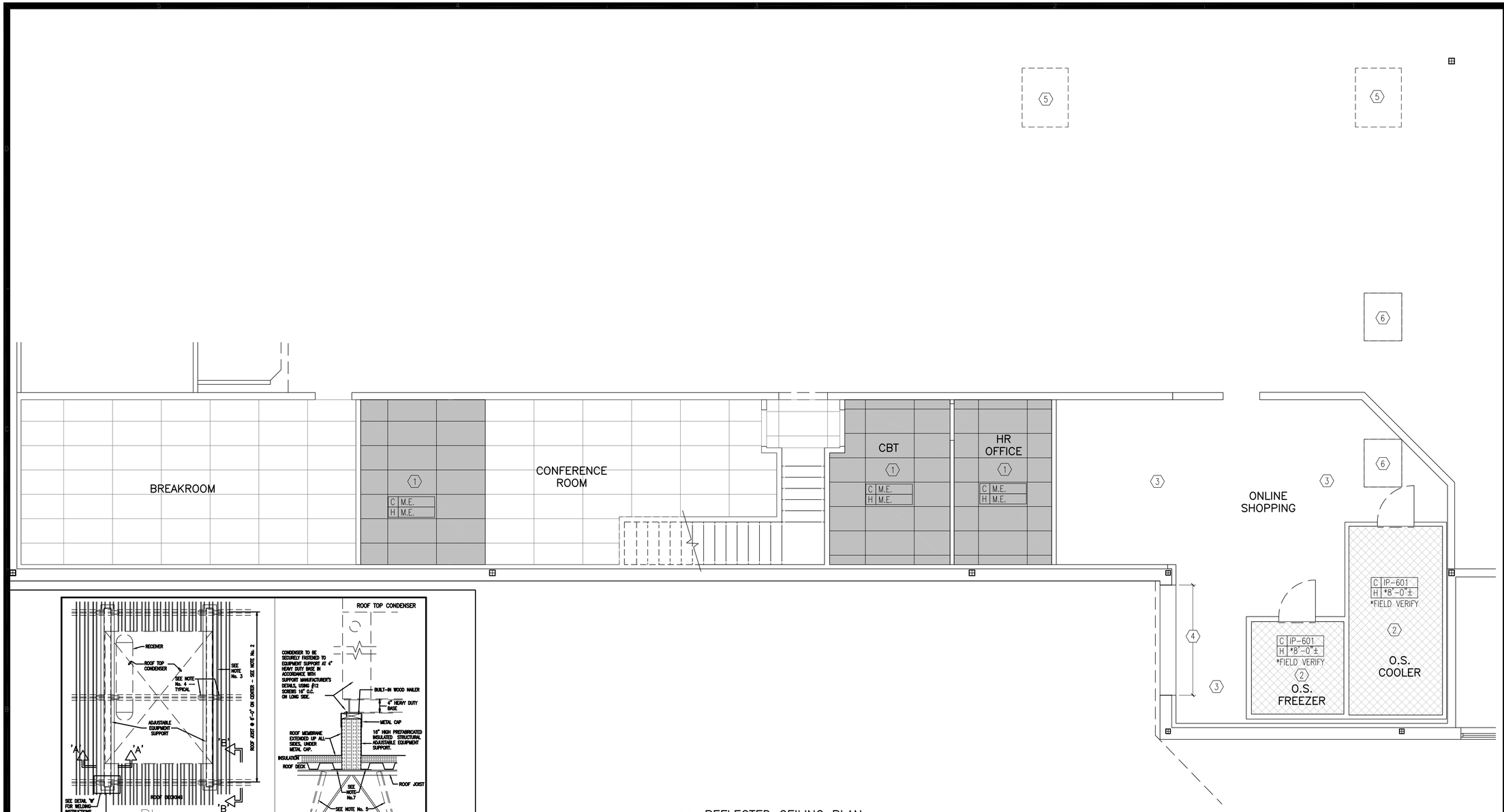
CAD DWG FILE: CPS2015-21.4-A1.1

DRAWN BY: JMH

CHK'D BY: JMH

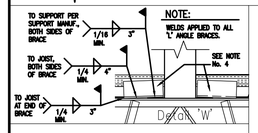
A1.1

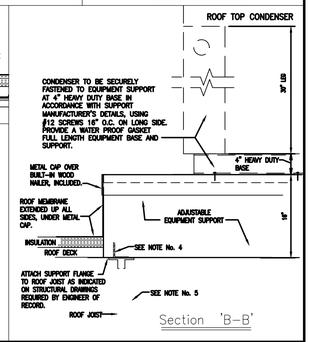
SHEET NO.



3B REFLECTED CEILING PLAN

SCALE: ¼" = 1'-0"





Notes:

1. ADJUSTABLE EQUIPMENT SUPPORT BY CONDENSER SUPPLIED AND CONTRACTOR INSTALLED PER MFGR. SECURE EQUIPMENT TO EQUIPMENT SUPPORT PER MANUFACTURER SUPPLIED BY EQUIPMENT SUPPLIER MANUFACTURER. REFER TO MANUFACTURER'S DETAIL FOR SPECIFICS.
2. THE CONDENSERS SIZES VARY, REFER TO DRAWINGS FOR REQUIRED SPACING OF EQUIPMENT SUPPORT LEGS. SUPPORT LEGS TO SPAN FROM CENTER OF FIRST JOIST TO CENTER OF LAST JOIST. ADJUST EQUIPMENT SUPPORT AS TO THAT CONDENSERS IS LEVEL. CONTRACTOR TO SPAN SUPPORT AS NEEDED WHEN ROOF SLOPE EXCEEDS THE STANDARD LIMIT OF ADJUSTMENT.
3. ROOFTOP TO INSTALL CRICKET WHERE EQUIPMENT SUPPORT SUPERCEDES DIRECTION OF DRAINAGE.
4. L 3 x 3 x 1/4 x 7" LONG STEEL ANGLES, TWO PLACES AT EACH JOIST AND SUPPORT LOCATIONS. CONTRACTOR SUPPLIED AND INSTALLED AFTER SUPPORTS HAVE BEEN SET.
5. FOR SEISMIC OR OTHER STRUCTURAL CONCERNS PROVIDE AND INSTALL ADDITIONAL STEEL STRUCTURE REINFORCEMENT AS INDICATED ON STRUCTURAL DRAWINGS BY ENGINEER OF RECORD.
6. SUPPORT TO STRUCTURAL STEEL ATTACHMENT METHOD WHEN INDICATED ON STRUCTURAL DRAWING BY ENGINEER OF RECORD SHALL SUPERCEDES THE ATTACHMENT RECOMMENDATION CONTAINED HERE IN.
7. ATTACH ROOF DECK TO SUPPORT FLANGE AT 12" O.C. — TYPICAL.

EQUIPMENT SUPPORT FOR AIR COOLED CONDENSER — PROTOCOL

MASTER SPECIFICATION DETAIL

DATE: 1/30/15
SCALE: NONE
DRAWN: ZAW

ASD-81A

PLAN NOTES

1. FURNISH & INSTALL NEW SUSPENDED CEILING TILE & GRID. SEE ELECTRICAL & HVAC FOR NEW WORK.
2. INSTALL NEW OWNER FURNISHED INSULATED CEILING PANELS PER MANUFACTURER.
3. SEE ELECTRICAL & HVAC FOR NEW WORK IN THIS AREA.
4. FURNISH & INSTALL NEW MATERIALS TO PROVIDE INTERIOR OF WALL ABOVE NEW DOOR OPENING W/ SHEATHED SURFACE USING MTL. STUD FURRING @ 24" O.C. & GYP. BD. SHEATHING. ALL NEW MATERIALS TO MATCH EXISTING ADJACENT TO PROVIDE A FLUSH TRANSITION. COORDINATE W/ NEW AIR CURTAIN (MTD. DIRECTLY TO CMU WALL) TO PROVIDE ACCESS FOR OPERATION.
5. NEW AIR COOLED CONDENSER UNIT, (F.O./I.C.) ON ROOF. REFER TO STRUCTURAL & ELECTRICAL DRAWINGS. UNIT TO BE MOUNTED ON TWO NEW SUPPORT RAILS PER ASD-81A (F.C./I.C.). SEE STRUCTURAL DRAWINGS FOR REQUIRED REINFORCING OF EXISTING/NEW ROOF STRUCTURE.
6. INSTALL KROGER FURNISHED REFRIGERATION EQUIPMENT SUSPENDED FROM ROOF STRUCTURE PER STRUCTURAL DRAWINGS.

GENERAL NOTES

1. SEE SPECIFICATION SECTIONS 016112, 016113-06, 074300, 083113 & 095113 FOR MATERIALS INFORMATION.
2. CLEAN ALL EXISTING HVAC GRILLES & DIFFUSERS THAT ARE SCHEDULED TO REMAIN IN THE AREAS (ROOMS) OF WORK.
3. MAINTAIN ALL EXISTING FIRE PROTECTION AND DETECTION SYSTEMS DURING CEILING WORK.
4. FURNISH & INSTALL NEW FIRE SPRINKLER PROTECTION SYSTEM IN ALL NEW WORK AREAS PER SPRINKLER DRAWINGS & SPECIFICATION SECTION 211000. ALL AREAS OF BUILDING MUST MEET LOCAL AND STATE FIRE PROTECTION REQUIREMENTS.
5. ALL NEW CEILING SYSTEM WORK AREAS TO HAVE A LICENSED FIRE PROTECTION ENGINEER ANALYZE AND PREPARE MODIFICATIONS AND ADDITIONAL WORK DESIGNED AS SEPARATE SUBMITTAL.
6. M.E. = MATCH EXISTING ADJACENT

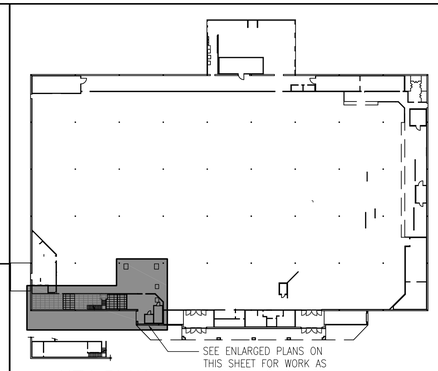
LEGEND

NEW SUSPENDED ACOUSTICAL CEILING SYSTEM (TILES & GRID)

COOLER/FREEZER CEILING PANEL (F.B.O. / I.B.C.)

C — CEILING FINISH MATERIAL

H — CEILING HEIGHT (ABOVE FINISHED FLOOR)



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SEAL

CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO: KROGER MID-ATLANTIC

11-13-2015
DATE: CONSTRUCTION SET

REFLECTED CEILING PLAN, NOTES AND DETAILS

SHEET TITLE

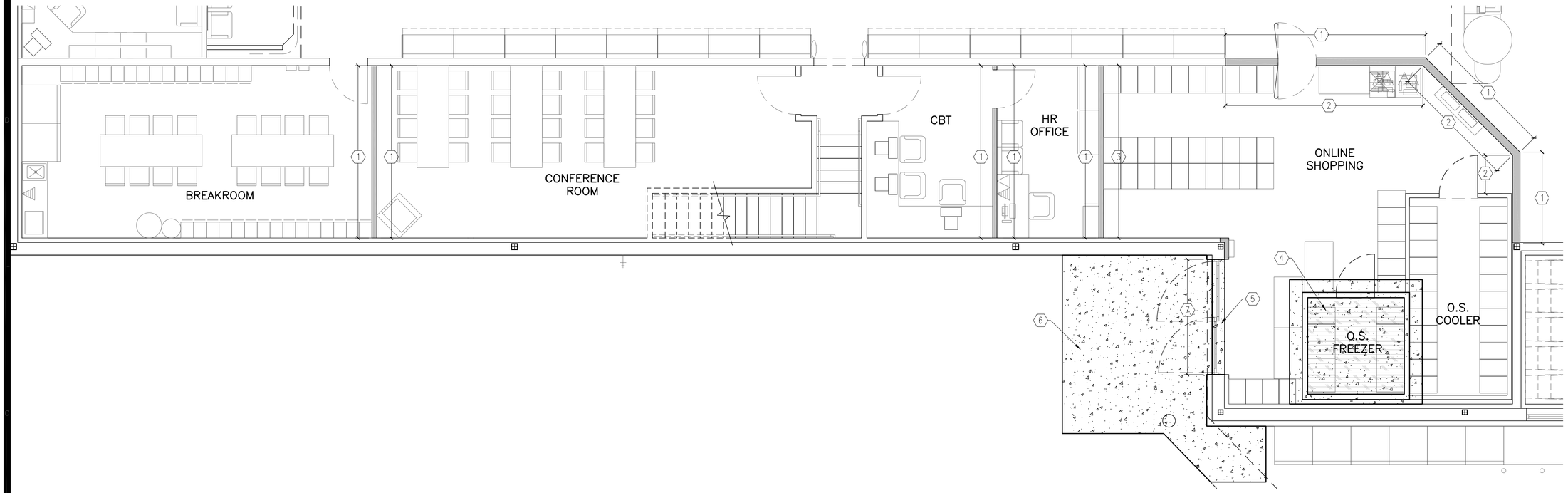
REVISIONS △

MARK	DATE	DESCRIPTION

PROJECT NO: CPS2015-21.4
CAD DWG FILE: CPS2015-21.4-A1.3
DRAWN BY: JMH
CHK'D BY: JMH

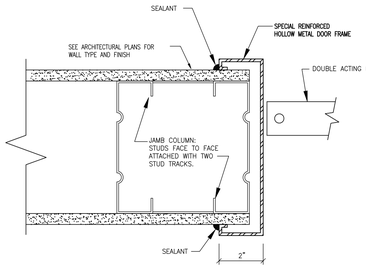
A1.3

SHEET NO.

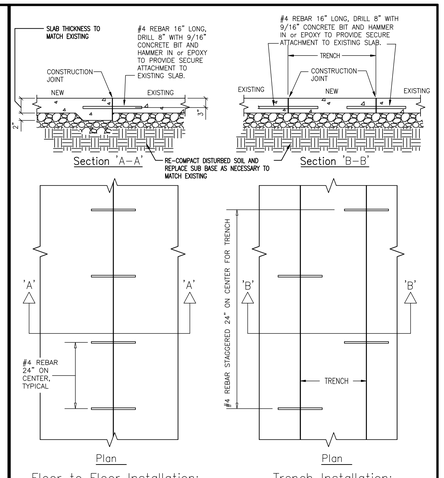


2C ROOM FINISHES PLAN

SCALE: ¼" = 1'-0"



DOUBLE ACTING DOOR FRAME AT STUD PARTITION	DATE: 8/7/13 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ASD–56



Notes:

IF ANY SIDE OF TRENCH IS 1'-0" or LESS, AWAY FROM CONTROL JOINT or CONSTRUCTION JOINT, SAWCUT AND REMOVE SLAB TO THE JOINT.

DO NOT CROSS CUT.

CONCRETE FLOOR REPLACEMENT AT EXISTING SLAB	DATE: 11-10-11 SCALE: NONE DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ASD–69

PLAN NOTES

1. FURNISH & INSTALL NEW VINYL WALL BASE & WALL COVERING (PAINT/WALLCLOTH/FRP/BUMPERS,ETC.) TO MATCH EXISTING ADJACENT.
2. SEE PARTITION DETAIL 1/A1.1 FOR WALL TREATMENTS.
3. SEE PARTITION DETAIL 2/A1.1 FOR WALL TREATMENTS.
4. INSTALL NEW KROGER FURNISHED FREEZER FLOOR PANELS W/ STEEL PLATE TOP PER DETAIL 3A/A1.5. ALL EXPOSED CONCRETE TO BE PIGMENTED TO MATCH ADJACENT EXISTING COLOR.
5. FURNISH & INSTALL NEW CONCRETE THRESHOLD TO PROVIDE A SMOOTH/FLUSH TRANSITION BETWEEN INTERIOR SLAB & EXTERIOR SIDEWALK. ALL EXPOSED CONCRETE TO BE PIGMENTED TO MATCH ADJACENT EXISTING COLOR.
6. FURNISH & INSTALL NEW CONCRETE SIDEWALK REPLACEMENT AS REQUIRED TO PROVIDE A FLUSH/LEVEL TRANSITION ACROSS DOOR OPENING. TIE IN TO EXISTING SIDEWALK PER ASD–69. MATCH EXISTING SIDEWALK FINISH & SAW–CUT NEW JOINTS TO MATCH/ALIGN W/ EXISTING.
7. PAINT EXPOSED STEEL LINTEL TO MATCH EXTERIOR ADJACENT CMU COLOR.

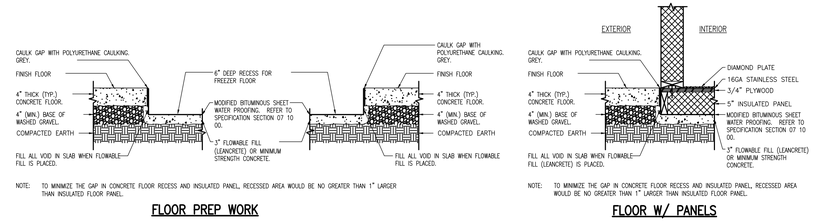
GENERAL NOTES

1. SEE SPECIFICATION SECTIONS 016111, 016112 & 016113 FOR MORE INTERIOR FINISH/DECOR INFORMATION.
2. STEAM CLEAN ALL FLOORS IN NEW WORK AREAS AFTER ALL OTHER WORK IS COMPLETED IN EACH AREA.

LEGEND

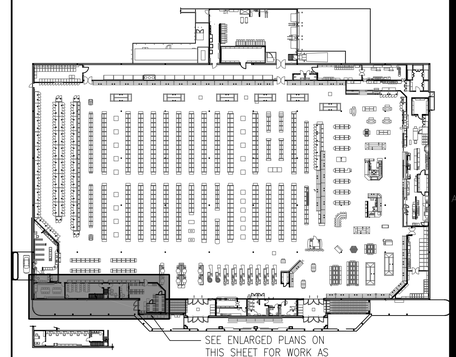
NEW CONCRETE SIDEWALK/SLAB (F.B.C./I.B.C.)

STEEL CHECKER–PLATE FLOOR PANEL (F.B.O./I.B.C.)



3A FREEZER FLOOR DETAILS

SCALE: ¾" = 1'–0"



1A KEY PLAN

NOT TO SCALE

CAPSTONE
project services, plc
ARCHITECT 333 S. TAMIAMI TRL., SUITE 293 VENICE, FL. 34285

SEAL

CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:

KROGER R–391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015 DATE CONSTRUCTION SET

ROOM FINISHES PLAN, NOTES AND DETAILS

SHEET TITLE

REVISIONS △

MARK	DATE	DESCRIPTION

PROJECT NO: CPS2015–21.4

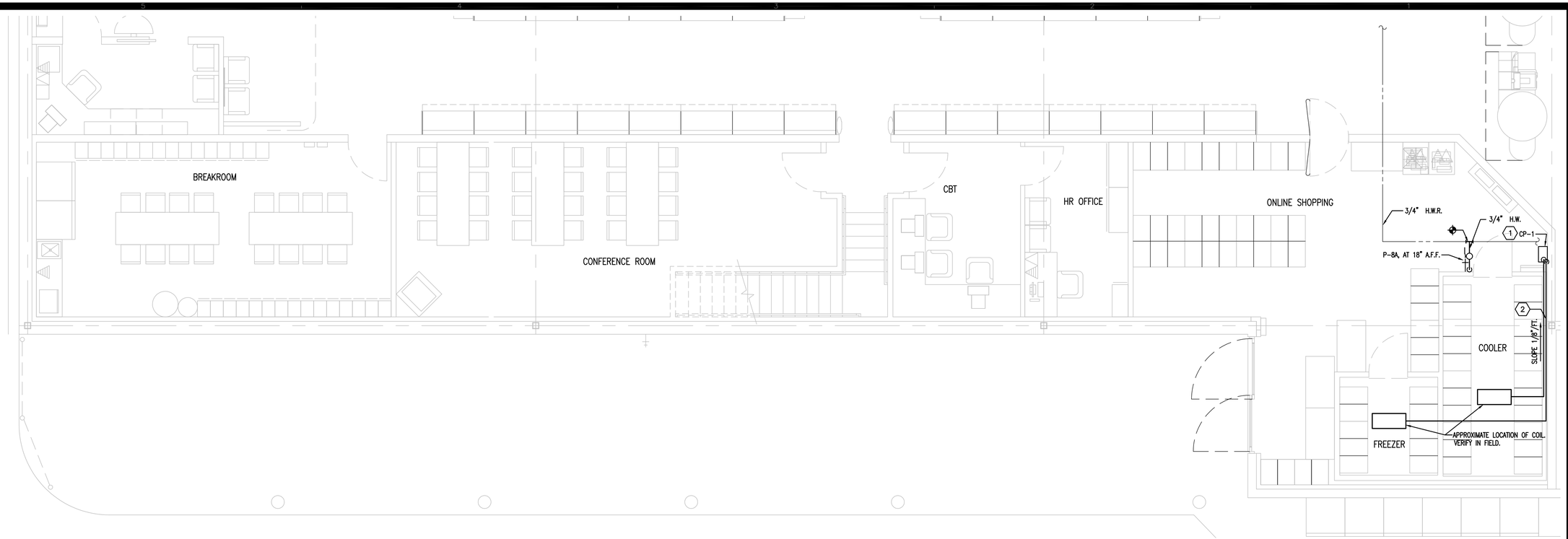
CAD DWG FILE: CPS2015–21.4–A1.5

DRAWN BY: JMH

CHK'D BY: JMH

A1.5

SHEET NO.



3C PLUMBING FLOOR PLAN

SCALE: ¼" = 1'-0"

PLAN NOTES

1. CONDENSATE PUMP, CP-1 MOUNTED ON WALL. HEIGHT OF MOUNTING SHALL BE DETERMINED IN FIELD. MOUNT AS HIGH AS POSSIBLE ALLOWING FOR SLOPE OF PIPE ENTERING PUMP. CONDENSATE TO BE PUMPED TO ROOF.
2. REFRIGERATION CONTRACTOR TO INSTALL COPPER CONDENSATE PIPE FROM EVAPORATOR COIL TO CONDENSATE PUMP. STAND-OFFS MUST BE USED TO KEEP PIPE AT LEAST 1" FROM FACE OF WALLS. GENERAL CONTRACTOR TO COORDINATE THIS WORK.

SPECIFICATIONS

DOMESTIC WATER PIPING :
ABOVE FLOOR – TYPE "L" COPPER, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER BRONZE FITTINGS AND 95/5 TIN/ANTIMONY OR 94/6 TIM/SILVER SOLDER.

DOMESTIC WATER BALL VALVE :
NIBCO NO. 585-70-66, FULL PORT BRONZE BODY, STAINLESS STEEL, NIB-SEAL INSULATED HANDLE. AND SOLDER ENDS.

INTERIOR HOSE BIBB (P-8A) :
WOODFORD MANUFACTURING CO. MODEL 24P-CH, CHROME PLATED BRASS.

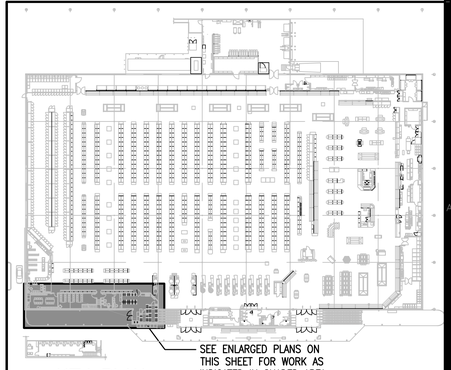
PIPING INSULATION :
INSULATE DOMESTIC HOT WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 1" WALL THICKNESS INSULATION. INSULATION SHALL BE ARMACELL, LLC ARMAFLEX II. DO NOT USE SPLIT TUBE LONGITUDINAL SEAMS. FLAME SPREAD INDEX OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF 50 OR LESS. ADHESIVES SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED.

HEAT TRACE FREEZER CONDENSATE PIPING WITH RAYCHEM, A DIVISION OF TYCO THERMAL CONTROLS, NO. 5XL1-CR. PROVIDE RAYCLIC TYPE TERMINATION KITS WITH THE SYSTEM.

CONDENSATE PUMP (CP-1) :
PROVIDE LITTLE GIANT CONDENSATE REMOVAL PUMP MODEL VCMX-20ULST, ITEM NO. 554550, WITH TUBING. 1/30 HP MOTOR, 115V, 60 HZ, 1.5 A, 93 W. PROVIDE CHECK VALVE MODEL NUMBER CV-X38. MOUNT UNIT TO WALL WITH STAINLESS STEEL BRACKETS. RUN TUBING SUPPORTED UP WALL TO DISCHARGE ON ROOF.

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		EXISTING TO REMAIN (SHOWN LIGHT)
		NEW WORK (SHOWN DARK)
	H.W.R.	DOMESTIC HOT WATER RETURN
		ELBOW, TURNING UP
		ELBOW, TURNING DOWN
		BALL VALVE
		NEW CONNECTION POINT



1A KEY PLAN

NOT TO SCALE

CAPSTONE project services, plc
ARCHITECT 333 S. TAMIAMI TRL., SUITE 293 VENICE, FL. 34285

SEAL

Baskervill
CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

PLUMBING FLOOR PLAN

SHEET TITLE

REVISIONS △

MARK	DATE	DESCRIPTION

PROJECT NO: 2.150418
CAD DWG FILE:
DRAWN BY: PLC
CHK'D BY: RL

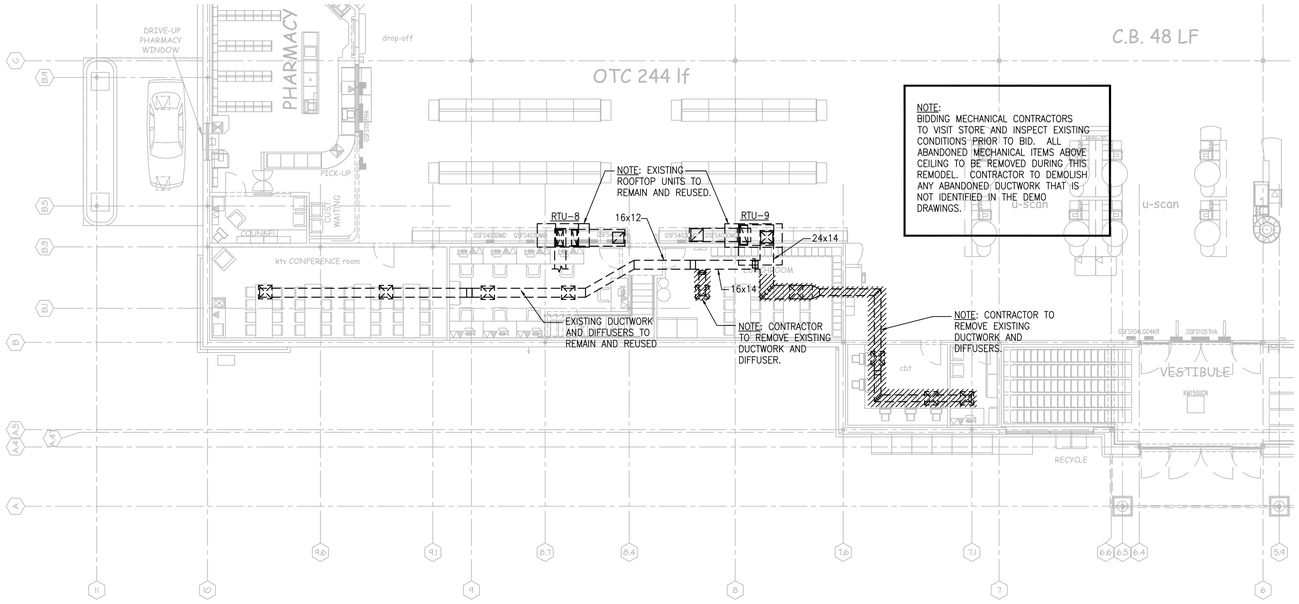
P1.1

SHEET NO.

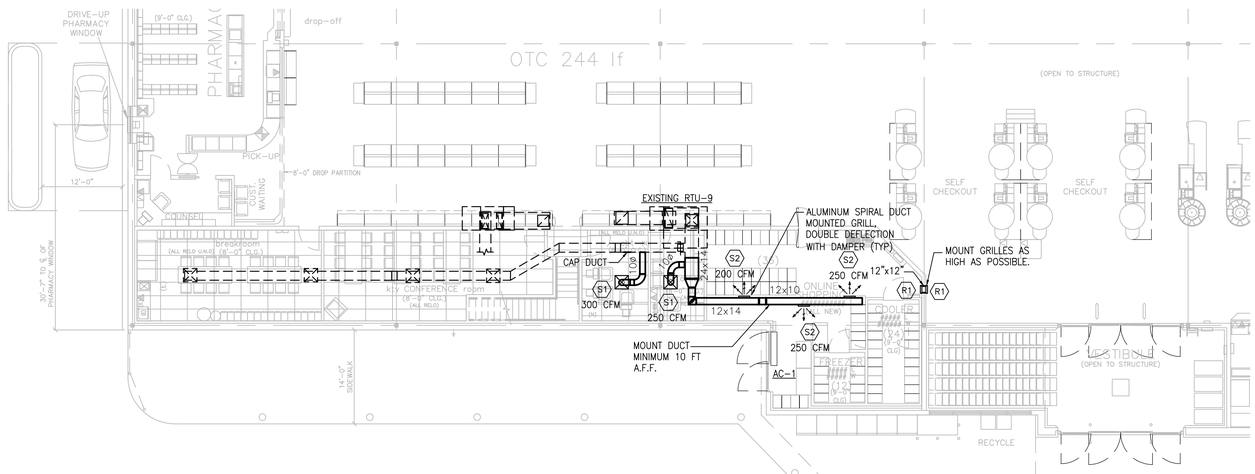
NOTE:
THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY AND OF NECESSITY, PREVIOUS RECORD DRAWINGS FORM THE BASIS FOR MANY OF THESE DRAWINGS. IT IS THEREFORE EVEN MORE IMPORTANT THAN IN NEW CONSTRUCTION THAT ALL DIMENSIONS SHALL BE FIELD VERIFIED BEFORE FABRICATION OR PURCHASE OF DIMENSION CRITICAL EQUIPMENT, MATERIALS, AND ASSEMBLIES. THERE MAY EXIST FIELD CONDITIONS NOT ACCESSIBLE DURING DESIGN WHICH DIFFER FROM THOSE SHOWN ON THE DRAWINGS. ANY SUCH DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND KROGER ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH ANY CONSTRUCTION, FABRICATION, OR MATERIAL/EQUIPMENT PURCHASES WHICH WOULD BE UNUSABLE UNDER THOSE CIRCUMSTANCES.

DUCTWORK LEGEND	
SYMBOLS & ABBREV	LEGEND
	EXISTING DUCT WORK, REMOVE AND DISCARD.
	EXISTING DUCT WORK TO REMAIN AND BE REUSED.
	NEW, INSTALLED DUCTWORK

HVAC LEGEND & ABBREVIATIONS	
⊠	SUPPLY DIFFUSER
⊘	RETURN GRILLE
⬡	AIR DISTRIBUTION TAG
Ⓣ	TEMPERATURE SENSOR
Ⓗ	HUMIDITY SENSOR
	MANUAL VOLUME DAMPER
SD	SPLITTER DAMPER
FD	FIRE DAMPER
	DOUBLE THICK TURNING VANE
DL	DOOR LOUVER
RTU–	ROOFTOP UNIT



2 M1.1 HVAC – DEMO FLOOR PLAN
SCALE: 3/32" = 1'-0"



1 M1.1 HVAC – NEW FLOOR PLAN
SCALE: 3/32" = 1'-0"

CAPSTONE
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VENICE, FL. 34285

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SEAL

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AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST

ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

HVAC NEW AND DEMO FLOOR PLAN

SHEET TITLE

REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: RLR# 15319
CAD DWG FILE:
DRAWN BY: NND
CHK'D BY: SPB

M1.1
SHEET NO.

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	SIZE IN INCHES		FINISH	O.B.D.	BASIS OF DESIGN (TITUS)	NOTES
		NECK	FACE				
S1	SUPPLY	10"x10"	24"x24"	WHITE	NO	TDC	1 2 3
S2	SUPPLY	10"x6"	12"x8"	4	NO	300RS	1
R1	RETURN	12"x12"	14"x14"	4	NO	50F	1

1. MOUNTING STYLE SHALL BE CONFIRMED WITH REFLECTED CEILING PLAN.
2. PROVIDE SQUARE TO ROUND TRANSITION WHEN REQUIRED.
3. SEE DRAWINGS FOR DIFFUSER THROW PATTERN. PROVIDE 4-WAY THROW DIFFUSER IF NO DIRECTION ARROWS ARE INDICATED.
4. MATCH FINISH COLOR OF ADJACENT MATERIAL.

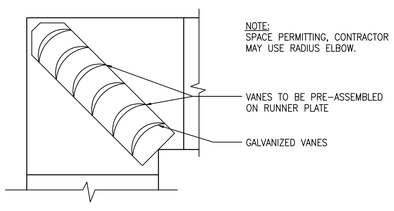
AIR CURTAIN SCHEDULE

MARK	CFM	AMPS	VOLTAGE	BASIS OF DESIGN (DAYTON)	LOCATION/SERVICE	EPRO# (MOTOR & BLOWER)	EPRO# (CABINET)	WEIGHT	NOTES
AC-1	5,130	5.2	115/1/60	MODEL 6E820	ONLINE SHOPPING	K-0009374	K-0009375	75 LBS	1 2 3 4 5 6

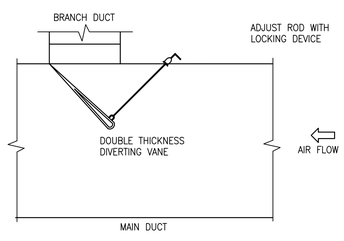
1. AIR CURTAIN WILL BE PROVIDED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF UNIT.
2. INTERLOCK SWITCH FOR AUTOMATIC ON/OFF CONTROL WHEN DOOR IS OPENED/CLOSED.
3. CONNECT TO BUILDING EMS FOR ENABLE/DISABLE
4. PROVIDE MOUNTING BRACKETS. INSTALL ABOVE DOORWAY PER MANUFACTURER'S INSTRUCTIONS.
5. MUST ORDER BLOWER/MOTOR ASSEMBLY AND CABINET.
6. EQUAL SUBSTITUTIONS ALLOWED – PROVIDE SUBMITTAL.

CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

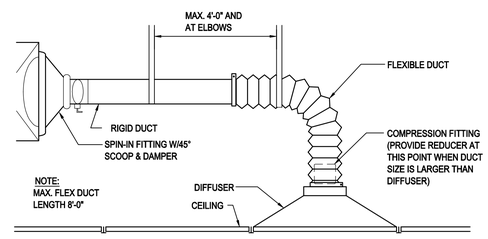
NOTES TO GENERAL CONTRACTOR REGARDING KROGER SUPPLIED, CONTRACTOR INSTALLED EQUIPMENT:
1. CONTRACTOR TO OBTAIN APPROVAL OF ANY DELIVERY DATE CHANGES FROM KROGER PROJECT ENGINEER AND COORDINATE WITH VENDOR.
2. CONTRACTOR TO RECEIVE EQUIPMENT, PROVIDE INSPECTION, AND NOTIFY VENDOR & KROGER PROJECT ENGINEER OF MISSING AND/OR DAMAGED MATERIALS WITHIN 48 HOURS AFTER DELIVERY (20 DAYS FOR CONCEALED DAMAGE).
3. CONTRACTOR TO PROVIDE SAFE HARBORING, INSTALLATION, AND REMOVAL OF ANY SALVAGE MATERIALS.
4. CONTRACTOR TO HANDLE ANY WARRANTY CLAIMS (PRIOR TO STORE OPENING) DIRECTLY WITH VENDOR.



1 M3.1 SQUARE ELBOW WITH DOUBLE THICKNESS VANES
SCALE: NONE



2 M3.1 BRANCH DUCT SPLITTER DETAIL
SCALE: NONE



3 M3.1 DIFFUSER RUNOUT DETAIL
SCALE: NONE

NOTE:
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MECHANICAL NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODES.
2. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW-PRESSURE DUCT CONSTRUCTION STANDARDS. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
3. INTERNALLY LINE THE FIRST 10' OF ALL SUPPLY AND RETURN DUCT WITH FIBERGLASS DUCT LINER PER SPECIFICATIONS. INSTALL IN ACCORDANCE WITH SMACNA DUCT LINER APPLICATIONS STANDARDS. ALL DUCTWORK DIMENSIONS ARE NET INSIDE DIMENSIONS. ALL DUCTWORK ELBOWS SHALL BE INSTALLED WITH TURNING VANES. ALL DUCTWORK ENCLOSED BY CEILING OR WALL SHALL BE INSULATED; EXPOSED DUCTWORK DOES NOT REQUIRE INSULATION.
4. INSULATE ALL SUPPLY AND RETURN DUCT WITH SEMI RIGID BONDED FIBERGLASS HAVING A MINIMUM INSULATION VALUE OF R-6.
5. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHOW THE RELATIONSHIP BETWEEN EQUIPMENT AND CONNECTIONS. DO NOT SCALE THE DRAWINGS FOR EXACT SIZE OR LOCATIONS. BUILDING DIMENSIONS SHALL BE TAKEN FROM ARCH. PLANS AND EQUIPMENT DIMENSIONS SHALL BE TAKEN FROM CERTIFIED EQUIPMENT DATA.
6. COORDINATE THE LOCATION OF ALL PENETRATIONS OF THE STRUCTURE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
7. EXACT LOCATION OF ALL CEILING DIFFUSERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
8. ALL DUCTWORK TO BE MOUNTED TIGHT TO BAR JOISTS UNLESS OTHERWISE NOTED.
9. MOUNT THERMOSTATS AT 48" A.F.F. UNLESS OTHERWISE NOTED. THERMOSTATS LOCATED ON AN OUTSIDE WALL SHALL BE MOUNTED ON AN INSULATED BASE.
10. PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY, RETURN AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGE DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
11. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE MITERED ELBOWS.
12. ALL FANS 1/8 H.P. AND ABOVE SHALL HAVE FUSED DISCONNECT SWITCH MOUNTED AT THE FAN. MAY BE EQUIPPED WITH NON-FUSED DISCONNECT SWITCH IF APPROVED BY LOCAL AUTHORITIES.

CAPSTONE project services, plc
ARCHITECT 333 S. TAMIAMI TRL., SUITE 293 VENICE, FL. 34285

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CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:
KROGER R-391
ROUTE 460 EAST
ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

HVAC DETAILS AND SCHEDULES
SHEET TITLE

REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: RLR# 15319
CAD DWG FILE:
DRAWN BY: NND
CHK'D BY: SPB

M3.1
SHEET NO.

ELECTRICAL NOTES:

1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT ADOPTED NFPA, NATIONAL ELECTRIC CODE, AND LOCAL CODES.
2. ALL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY APPROVED BY THIS STATE.
3. WIRING SHALL BE COPPER SINGLE CONDUCTOR UNLESS INDICATED OTHERWISE. MINIMUM WIRE SIZE IS #12 AWG. CONDUCTORS #8 AND LARGER SHALL BE TYPE THHN OR THWN STRANDED. #12 THRU #10 SHALL BE THWN SOLID. WIRE TO LIGHT FIXTURES SHALL BE AS REQUIRED BY U.L. LABEL. COLOR CODE CONDUCTORS.
4. CONDUITS SHALL BE STEEL INDOORS AND SCHEDULE 40 PVC OUTDOORS OR BELOW FLOOR SLAB. EMT SHALL BE USED FOR SIZES 1/2" THROUGH 3 1/2".
5. CONNECT ALL HVAC, PLUMBING AND OTHER CONTRACTOR OR OWNER FURNISHED EQUIPMENT. VERIFY ALL LOCATIONS OF HVAC, PLUMBING AND OTHER CONTRACTOR OR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. CHECK EQUIPMENT SHOP DRAWINGS AND COORDINATE WITH HVAC, PLUMBING, AND ALL OTHER EQUIPMENT CONTRACTORS FOR DISCONNECT SWITCH, CONDUIT, WIRING REQUIREMENTS (THIS INCLUDES VERIFYING IF A NEUTRAL CONDUCTOR IS REQUIRED), FUSE AND BREAKER SIZES, WIRING OF STARTERS, VOLTAGE REQUIREMENTS, AND LOCATIONS. PROVIDE A TIMER FOR ALL PLUMBING RECIRCULATION PUMPS. MAKE ALL NECESSARY REVISIONS TO THESE ITEMS AT NO ADDITIONAL COST TO THE OWNER.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE LOAD DATA SHEET, TO THE POWER COMPANY, AT THE BEGINNING OF THE PROJECT, AS PER LOAD BREAKDOWN SHOWN ON PLANS.
7. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE PRIOR TO SUBMISSION OF BID TO FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED AND THE EXTENT OF WORK REQUIRED. INCLUDE ALL COST IN BID PRICE.
8. SUPPORT ALL CONDUITS WITH STRAPS AND CLAMPS. RUN ALL CONDUIT PARALLEL OR PERPENDICULAR TO BUILDINGS.
9. ELECTRICAL DEMOLITION, RELOCATION OF EXISTING EQUIPMENT, CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THIS NEW WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THE EXTENT OF THE WORK REQUIRED SHALL BE DETERMINED DURING THE PREBID JOBSITE VISIT.
10. ALL SALVAGEABLE MATERIALS RESULTING FROM DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER. THE OWNER SHALL DETERMINE WHAT IS SALVAGEABLE.
11. ALL ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH ARTICLE 1613 OF THE INTERNATIONAL BUILDING CODE.
12. FOR ALL BREAKERS AND DEVICES:
    - A. SERIES RATING NOT ALLOWED.
    - B. THE MANUFACTURER OF THE MAIN SWITCHGEAR, AND/OR PANEL BOARDS SHALL PROVIDE A COORDINATION STUDY AND A SHORT CIRCUIT STUDY, AND ARC FLASH ANALYSIS TO DETERMINE ALL SETTINGS OF ELECTRONIC BREAKERS, GFI SETTINGS, AND ADJUSTABLE TRIP SETTINGS ON ALL NON-ELECTRONIC BREAKERS. THESE SETTINGS SHALL BE INCLUDED IN THE SHOP DRAWINGS FOR THE ENGINEERS REVIEW. SHOP DRAWINGS WILL BE REJECTED IF SETTINGS ARE NOT INCLUDED. THE MANUFACTURER OF THE MAIN SWITCHGEAR, AND/OR PANELBOARDS SHALL BE RESPONSIBLE FOR OBTAINING ALL INFORMATION FROM THE GENERATOR MANUFACTURER, HVAC MANUFACTURER, FIELD VERIFYING ANY EXISTING BREAKERS, OR OBTAINING ANY PIECE OF BREAKER DATA WHICH WILL BE NEEDED FOR THE COORDINATION STUDY.
    - C. THE ELECTRICAL CONTRACTOR TO PROVIDE ARC FLASH LABELS ON ALL PANELS AS REQUIRED PER N.E.C. LABELING SHALL INCLUDE:
        1. THE PANEL NAME.
        2. THE CLASSIFICATION.
        3. THE SHOCK HAZARD LEVEL WHEN COVER IS REMOVED AND LIMITED.
        4. THE PROTECTION REQUIRED.
        5. THE RESTRICTED AND PROHIBITED APPROACH BOUNDARIES.
    - D. THE MANUFACTURER OF THE MAIN SWITCHGEAR, AND/OR PANELBOARDS SHALL SELECT BREAKERS THAT ARE CAPABLE OF BEING ADJUSTED TO ALLOW FOR A MAXIMUM ARC FLASH RATING OF BETWEEN 8-25 CAL/CM2. IF A FLASH RATING OF 25-100 CAL/CM2 IS PRODUCED BY THE STUDY, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND GEAR MANUFACTURER TO PROVIDE AND INSTALL OR CHANGE ADDITIONAL GEAR TO PRODUCE A FLASH RATING OF 8-25 CAL/CM2 OR BELOW, AT NO ADDITIONAL COST TO THE OWNER. THE MDP CAN BE NO HIGHER THAN 40 CAL/CM2. THIS IS THE ONLY EXCEPTION.

HAZARD RISK CATEGORY

HRC	INCIDENT ENERGY RATING
CLASS #0	0-1.2 CAL/CM2
CLASS #1	>1.2-4 CAL/CM2
CLASS #2	>4-8 CAL/CM2
CLASS #3	>8-25 CAL/CM2
CLASS #4	>25-40 CAL/CM2
CLASS #5	>40-100 CAL/CM2

16. PROVIDE MIN. 24" HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF A SAME WALL AS INDICATED IN N.E.C. 300.21.
17. ALL DISCONNECTS SHALL BE HEAVY DUTY RATED, WITH ARC GUARD, AND SHALL HAVE A MECHANICAL INTERLOCK TO PREVENT THE DOOR FROM BEING OPENED, WITHOUT DEFEATING THE INTERLOCK. THE MECHANICAL INTERLOCK SHALL ALSO PREVENT ACTIVATING THE SWITCH WHEN THE DOOR IS OPEN. THE MECHANICAL INTERLOCK SHALL BE DEFEATABLE BY A SPECIAL TOOL, AND SHALL BE U.L. LISTED AS PART OF THE DISCONNECT. EXTERNAL OPERATING HANDLE SHALL INDICATE ON AND OFF POSITION AND SHALL HAVE LOCK-OPEN PADLOCKING PROVISIONS.
18. SERVICE GROUND IMPEDANCE SHALL BE MEASURED, AND SHALL BE 5 OHMS OR LESS. IF UPON MEASUREMENT, SERVICE GROUND READING EXCEEDS 5 OHMS, THEN ADDITIONAL GROUND RODS SHALL BE DRIVEN TO REDUCE READING TO 5 OHMS OR LESS. NOTIFY ENGINEER OF FINAL SERVICE GROUND MEASUREMENT.
19. BREAKERS THAT FEED CONTACTORS AND TIME CLOCKS TO BE CURRENT LIMITING TO ALLOW A MAXIMUM LET THRU OF 22K AIC WITH 80K AIC AVAILABLE.
20. ALL TERMINATIONS ON PANELS SHALL HAVE DUAL RATED 60°C/75°C LUGS.
21. PROVIDE INTERNAL OR EXTERNAL DISCONNECTING MEANS FOR EACH FLUORESCENT LUMINARE THAT UTILIZES DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE TO COMPLY WITH N.E.C. 410.130(G).
22. ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT TO MEET NEC 210.4. SHARED NEUTRALS OR MULTIPOLE BRANCH BREAKERS WILL NOT BE ALLOWED, EXCEPT FOR FURNITURE BRANCH CIRCUITS. FOR FURNITURE BRANCH CIRCUITS, ALL FURNITURE SHALL BE WIRED PER N.E.C. 605. FURNITURE BRANCH CIRCUITS SHALL BE FED WITH SINGLE POLE BREAKERS. INSTALL UL APPROVED HANDLE TIES ON SINGLE POLE BREAKERS AS REQUIRED FOR TWO AND THREE CIRCUITS FEEDING FURNITURE. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FURNITURE SYSTEM IN THE FIELD PRIOR TO CONNECTION AND PROVIDE ADDITIONAL NEUTRAL AND/OR GROUND CONDUCTORS AS REQUIRED.
23. PROVIDE ADDITIONAL FIRE ALARM DEVICES AS DIRECTED BY THE FIRE MARSHALL. AT NO ADDITIONAL COST TO OWNER.
24. ALL TELECOMMUNICATIONS CONDUIT, SLEEVES, OR PATHWAYS ARE TO BE LONG SWEEPING TYPE. ALL CONDUITS (BENDING RADIUS) ARE TO BE INSTALLED PER MANUFACTURER'S AND TELECOM CONTRACTOR'S RECOMMENDATIONS.
25. THE ELECTRICAL CONTRACTOR SHALL FIELD SURVEY THE INTERIORS OF ALL PANELS AND SWITCHGEAR IN WHICH BREAKERS ARE BEING INSTALLED, AND VERIFY THAT ALL INTERIOR BUSSING AND FRAMES ARE AVAILABLE PRIOR TO SUBMISSION OF BID. ANY ADDITIONAL BUSSING REQUIRED WITHIN PANELS AND SWITCHGEAR SHALL BE INCLUDED IN BID PRICE.
26. ALL EGRESS LIGHTING SHALL COMPLY WITH APPLICABLE BUILDING CODE SECTION. THE ELECTRICAL CONTRACTOR SHALL VERIFY THIS IN THE FIELD AND ADD ADDITIONAL EMERGENCY LIGHTS IF REQUIRED.
27. NO OPEN FLAME DEVICES SHALL BE UTILIZED TO BEND PVC CONDUIT. ALL HEATING DEVICES MUST BE ENCLOSED FLAME (HEAT GUN OR HEAT ROLLER, NO TORCHES). ALL HEATING METHODS MUST BE APPROVED BY ELECTRICAL ENGINEER PRIOR TO INSTALLATION. ANY CONDUIT THAT HAS BEEN HEATED TO WHERE PVC IS DAMAGED OR DISCOLORED SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST.
28. ALL BALLASTS IN FLUORESCENT LIGHT FIXTURES THAT ARE CONTROLLED BY OCCUPANCY SENSORS ARE TO BE PROGRAM START BALLASTS.

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

Energy Code: ☒ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)

lamp type required in fixture	– see lighting fixture schedule
number of lamps in fixture	– see lighting fixture schedule
ballast type used in the fixture	– see lighting fixture schedule
number of ballasts in fixture	– see lighting fixture schedule
total wattage per fixture	– see lighting fixture schedule
total interior wattage specified vs. allowed (whole building or space by space)	2.2kva vs 2.9KVA allowed
total exterior wattage specified vs. allowed	N/A (EXISTING UNCHANGED) (EXPANSION)

Additional Prescriptive Compliance

- ☐ 506.2.1 More Efficient Mechanical Equipment
- ☒ 506.2.2 Reduced Lighting Power Density
- ☐ 506.2.3 Energy Recovery Ventilation Systems
- ☐ 506.2.4 Higher Efficiency Service Water Heating
- ☐ 506.2.5 On-Site Supply of Renewable Energy
- ☐ 506.2.6 Automatic Daylighting Control Systems

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
	DISTRIBUTION PANELBOARD.
	CONDUIT RUN CONCEALED IN CEILING OR IN WALL.
	CONDUIT RUN CONCEALED IN FLOOR OR WALL.
	CIRCUIT RUN HOME. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS.
	DUPLEX, GROUNDING TYPE, 120 VOLT, 20 AMP, 3 WIRE RECEPTACLE WITH PLATE. PROVIDE #12 GREEN GROUND JUMPER. MOUNT 18" UP UNLESS OTHERWISE SHOWN.
WP	SAME AS ABOVE EXCEPT MOUNTED IN WP-DB WEATHERPROOF ENCLOSURE.
	SAME AS ABOVE EXCEPT MOUNTED ABOVE TABLE OR COUNTER.
GFI	SAME AS ABOVE EXCEPT GROUND FAULT TYPE.
IG	ISOLATED GROUND RECEPTACLE. PROVIDE PLATE. MOUNT 18" UP UNLESS OTHERWISE NOTED.
	SPECIAL USE RECEPTACLE. VOLTAGE, PHASE AND AMPERAGE BASED ON LOAD SERVED. COORDINATE NEMA CONFIGURATION WITH EQUIPMENT REQUIREMENTS.
	CORD DROP RECEPTACLE. COORDINATE NEMA CONFIGURATION WITH EQUIPMENT SERVED.
	PLUGMOLD. SEE SPECIFICATIONS.
	DISCONNECT SWITCH AMPERAGE AND FUSES AS SHOWN ON DRAWINGS.
J	JUNCTION BOX. 120V UNLESS INDICATED OTHERWISE.
E	ELECTRICAL CONNECTION UNDER CASE.
	FLUSH MOUNTED TELE/DATA OUTLET, 18" A.F.F. RUN ONE 3/4" CONDUIT W/ PULL STRING TO 12" ABOVE CEILING OR INTO STRUCTURE ABOVE. COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS AND REQUIREMENTS WITH THE LOW VOLTAGE CONTRACTOR.
	SAME AS ▷ ABOVE EXCEPT MOUNTED 6" ABOVE COUNTER TOP OR 60" HIGH ON WALL OR COLUMN.
SC	SCALE COMMUNICATIONS OUTLET. PROVIDE 3/4" CONDUIT TO ECR ROOM. COORDINATE LOCATIONS AND REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR.
DD	DUCT MOUNTED SMOKE DETECTOR. CONNECTED TO FACP.
SD	SMOKE DETECTOR
F	ADA COMPLIANT FIRE ALARM HORN/STROBE. CEILING MOUNTED OR SUSPENDED FROM STRUCTURE.
F	ADA COMPLIANT FIRE ALARM STROBE. CEILING MOUNTED OR SUSPENDED FROM STRUCTURE.
F	ADA COMPLIANT FIRE ALARM STROBE. MOUNT 80" AFF.
F	ADA COMPLIANT FIRE ALARM HORN/STROBE. MOUNT 80" AFF.
SB	REMOTE SECURITY SOUNDER
DC	SECURITY DOOR CONTACT

NOTE:
ALL ELECTRICAL CONDUITS IN THE SALES AREA DESCENDING FROM ROOF FRAMING TO EITHER LOW WALLS OR EQUIPMENT SHOULD BE COORDINATED AND GROUPED TOGETHER WITH OTHER MECHANICAL PIPES.

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AN ONLINE SHOPPING ADDITION FOR:
KROGER R-391
ROUTE 460 EAST ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

ELECTRICAL SYMBOLS AND GENERAL NOTES
SHEET TITLE

REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 15309
CAD DWG FILE: R-391 E0.1
DRAWN BY: WSM
CHK'D BY: SWH

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SHEET NO.

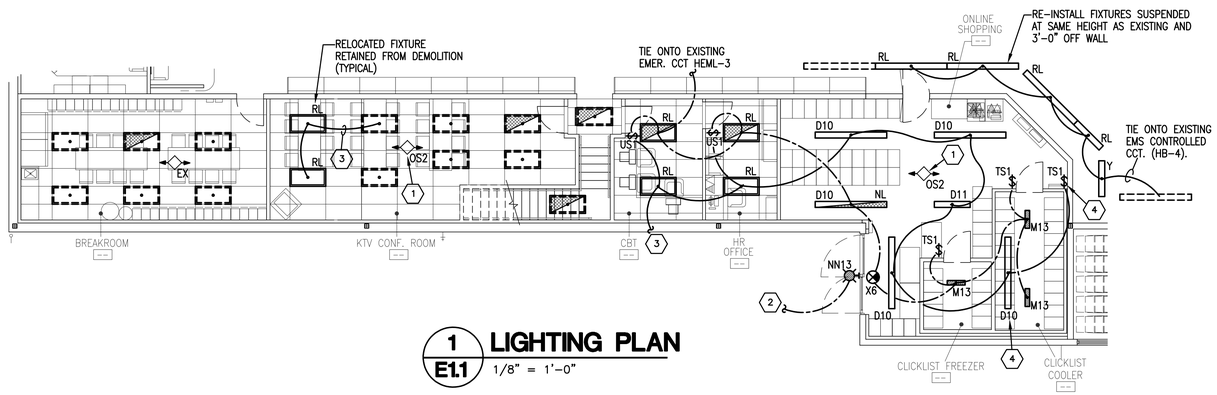
SWITCH AND SENSOR LEGEND

$_{TS1}	TIMER SWITCH
$_{US1}	OCCUPANCY SENSOR SWITCH
OS2	TWO WAY LIGHTING SENSOR SUSPENDED 12'-6" AB. FL. or AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.

ALL LIGHTING CONTROLS NOT PART OF THE BUILDING EMS TO BE SET WITH A MINIMUM ON TIME OF 15 MINUTES

LIGHTING NOTES (GENERAL)

1. EXISTING LIGHTING FIXTURES TO REMAIN IN ADDITION TO NEW FIXTURES SHOWN, UNLESS OTHERWISE NOTED.
2. EXIT SIGNS AND EMERGENCY LIGHTS ARE EXISTING TO REMAIN, UNLESS OTHERWISE INDICATED.
3. FIELD VERIFY ALL EXISTING CONDITONS.
5. IDENTIFY CIRCUIT #'S IN PANEL AND ON RED LINE "AS-BUILT" SET.
6. SEE SPECIFICATIONS FOR INFORMATION ON KROGER DIRECT BUY PROGRAM.
7. SEE ESD-26 FOR CONDUIT INSTALLATION DETAILS AT PREFAB, INSULATED CEILING PANELS.



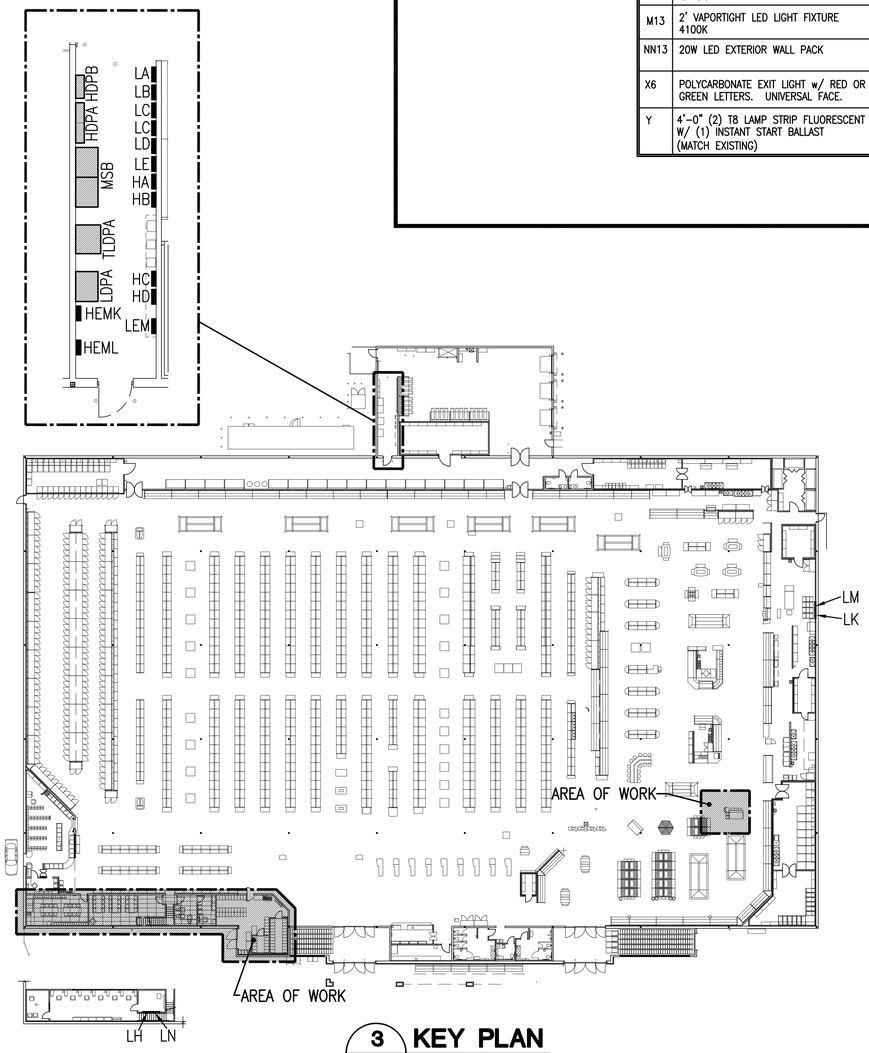
1 E1.1 **LIGHTING PLAN**
1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE (KROGER PROVIDED)

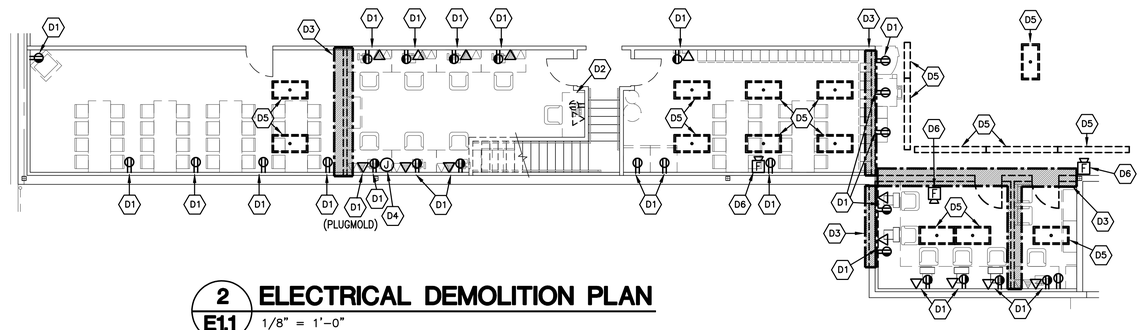
TYPE	DESCRIPTION	MANUFACTURER	SYLVANIA LAMP	QUANTITY	WATTAGE
D10	8'-0" (2) T8 LAMP STRIP FLUORESCENT W/ (1) PROSTART BALLAST.	COOPER (METALUX) 8TSSF-232-UNIV-QHE4X32PSNSC	F028/835/XP/SS/ECO	5	98
D11	4'-0" (2) T8 LAMP STRIP FLUORESCENT W/ (1) PROSTART BALLAST	COOPER (METALUX) SSF-232-UNIV-QHE2X32PSNSC	F028/835/XP/SS/ECO	1	51
M13	2' VAPORTIGHT LED LIGHT FIXTURE 4100K	COOPER (METALUX) VT-LD2-30DR-UNIV-L840-CD1-WL-U	LEDs INCLUDED	3	38
NN13	20W LED EXTERIOR WALL PACK	COOPER (LUMARK) XTOR2A-4000K	LEDs INCLUDED	1	42
X6	POLYCARBONATE EXIT LIGHT w/ RED OR GREEN LETTERS. UNIVERSAL FACE.	COOPER (SURELITES) LPX6	LED INCLUDED	1	6.7
Y	4'-0" (2) T8 LAMP STRIP FLUORESCENT W/ (1) INSTANT START BALLAST (MATCH EXISTING)	COOPER (METALUX) IC-232-UNV-EB81 (MATCH EXISTING)	F028/835/XP/SS/ECO	1	51

LIGHTING NOTES (SPECIFIC)

1. OCCUPANCY SENSORS TO CONTROL ALL FIXTURES IN AREAS INDICATED EXCEPT NIGHT LIGHTING FIXTURES (NL). PROVIDE DUAL POWER SUPPLIES OR LIGHTING CONTACTORS IN ENCLOSURES WHERE MORE THAN ONE CIRCUIT IS TO BE CONTROLLED BY THE SAME SENSOR.
2. TIE ONTO EXISTING EXTERIOR EMERGENCY LIGHTING CIRCUIT HEML-5 (CONTACTOR CONTROLLED).
3. TIE ONTO EXISTING CIRCUIT HB-1. NEW LOAD OFFSET BY REMOVAL OF EXISTING.
4. MOUNT FIXTURE ABOVE COOLER/FRZR FOR EQUIPMENT MAINTENANCE. MOUNT SWITCH AT TOP OF LADDER.



3 E1.1 **KEY PLAN**
N.T.S.



2 E1.1 **ELECTRICAL DEMOLITION PLAN**
1/8" = 1'-0"

DEMOLITION NOTES (TYPICAL)

A. THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE ELECTRICAL SYSTEMS PRIOR TO BID. DEMOLITION OF ELECTRICAL WORK SHALL FOLLOW THE ARCHITECTURAL WORK.

B. REMOVE ALL ELECTRICAL DEVICES, CONDUIT AND WIRE FROM WALLS TO BE REMOVED AND ON WALLS WHERE NEW CONSTRUCTION CONFLICTS WITH EXISTING DEVICES IN THE REMODELED AREA.

D. CHASE AND PATCH EXISTING WALLS TO ABOVE SUSPENDED CEILING AS REQUIRED WHERE NEW DEVICES ARE INDICATED SUCH THAT DEVICES WILL BE FLUSH WITH WALL FINISH.

E. THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE EXISTING DEVICES IN AREAS OF NEW WORK, DEVICES THAT ARE IN NEED OF REPLACEMENT SHALL BE REMOVED.

F. ALL FIXTURES CALLED FOR REMOVAL SHALL BE DISCARDED BY THIS CONTRACTOR, UNLESS NOTED OTHERWISE.

G. REMOVE WIRE BACK TO SOURCE AND LABEL BREAKERS AS "SPARE" FOR ALL CIRCUITS THAT ARE NOT REUSED AND ARE INDICATED HERE TO BE REMOVED. CORRDINATE WITH NEW WORK PLANS FOR REUSED CIRCUITS.

DEMOLITION NOTES (SPECIFIC)

D1. EQUIPMENT TO BE REMOVED. DISCONNECT AS REQUIRED, REMOVE WIRE BACK TO SOURCE AND LABEL NON-REUSED BREAKERS AS "SPARE".

D2. FURNITURE / EQUIPMENT TO BE REMOVED. RECEPTACLES AND TELE/DATA OUTLETS TO REMAIN FOR REUSE. SEE E4.1.

D3. REMOVE ALL EXISTING DEVICES, CONDUIT, WIRE, ETC FROM WALL SECTION TO BE DEMOLISHED. MAKE PROVISIONS AS REQUIRED TO MAINTAIN DOWNSTREAM LOADS. FIELD VERIFY CONDITIONS AND EXTENT OF WORK.

D4. REMOVE 18"X18" TELE/DATA JUNCTION BOX AND ASSOCIATED CONDUITS AND CABLING. CABLING TO BE RE-ROUTED TO NEW CBT ROOM.

D5. LIGHTING FIXTURE TO BE REMOVED AND STORED IN A SECURE LOCATION FOR RE-INSTALLATION.

D6. REMOVE/RELOCATE FIRE ALARM DEVICES AFFECTED BY REMODEL. FIELD VERIFY EXISTING DEVICE LOCATIONS AND QUANTITIES.

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AN ONLINE SHOPPING ADDITION FOR:

KROGER R-391

ROUTE 460 EAST
ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

LIGHTING PLAN AND ELECTRICAL DEMOLITION PLAN

SHEET TITLE

REVISIONS

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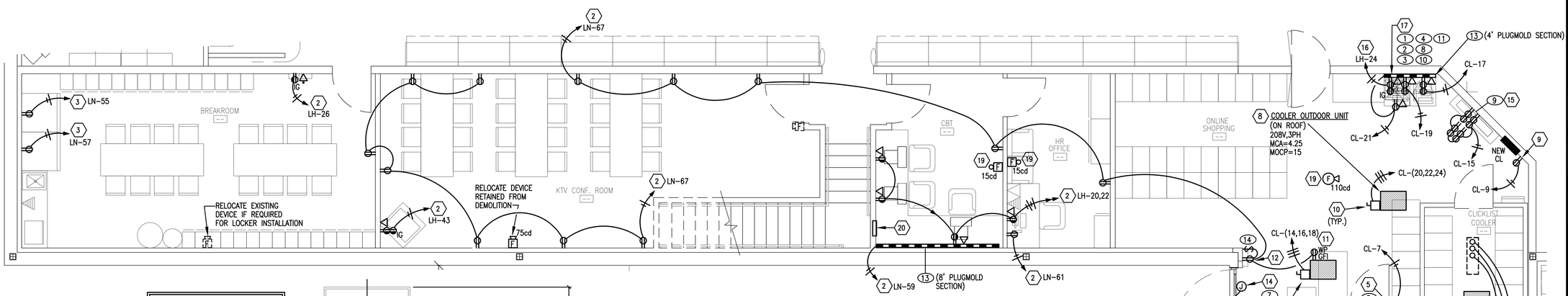
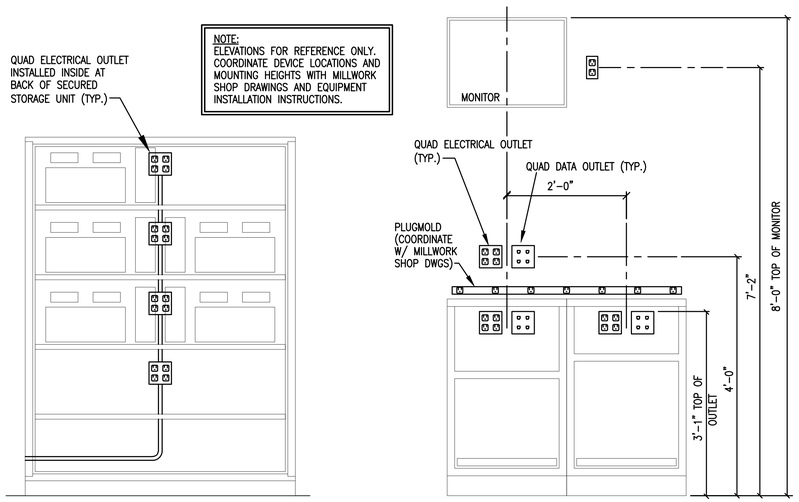


1 E4.1 ENLARGED POWER PLAN

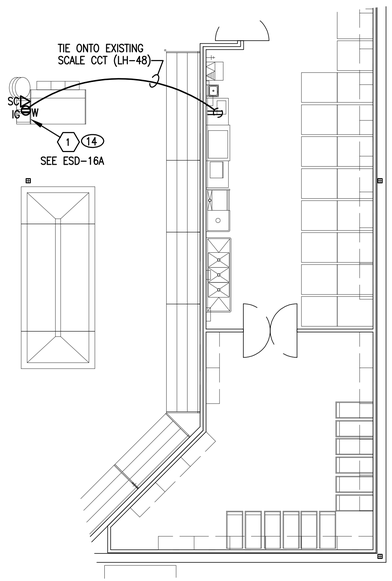
1/4" = 1'-0"

NOTE:
ELEVATIONS FOR REFERENCE ONLY. COORDINATE DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH MILLWORK SHOP DRAWINGS AND EQUIPMENT INSTALLATION INSTRUCTIONS.



2 E4.1 CLICK LIST ELEVATIONS

N.T.S.



3 E4.1 PARTIAL PRODUCE SALES POWER PLAN

1/8" = 1'-0"

POWER NOTES (SPECIFIC)

1. PROVIDE WHITE SO CORD DROP WITH RECEPTACLE FOR SALES AREA ISLAND EQUIPMENT CONNECTION. VERIFY NEMA CONFIGURATION AND REQUIREMENTS WITH EQUIPMENT SERVED. INSTALL WITH RECEPTACLE HANGING LOW AND AS CLOSE AS POSSIBLE TO THE EQUIPMENT CONNECTION. PROVIDE KELLUM GRIP STRAIN RELIEF AS REQUIRED.
2. EXTEND EXISTING CIRCUIT MADE SPARE BY DEMOLITION. CIRCUITS INDICATED ARE BASED AS-BUILT DRAWING INFORMATION. FIELD VERIFY ACTUAL CONDITIONS.
3. EXTEND EXISTING CIRCUIT FOR RELOCATED VENDING MACHINE. REPLACE EXISTING BREAKER WITH NEW GFI TYPE. CIRCUIT INDICATED IS BASED ON AS-BUILT DRAWING INFORMATION. FIELD VERIFY.
4. PROVIDE A SIMPLEX, 120V, 20A RECEPTACLE WITH A CONTINUOUS OPERATION WEATHERPROOF COVER ON THE FREEZER WALL BELOW THE COIL FOR CONDENSATE DRAIN LINE HEAT TAPE. FEED RECEPTACLE FROM GFI TYPE BREAKER.
5. PROVIDE CONNECTION TO FREEZER DOOR HEAT AS REQUIRED.
6. 1"C W/ PULLSTRING ASSOCIATED REFRIGERATION UNIT / CONTROL PANEL FOR LOW VOLTAGE SENSOR CABLE. COORDINATE REQUIREMENTS WITH REFRIGERATION AND EMS CONTRACTORS.
7. 1"C W/ 2#14,1#12G TO ASSOCIATED REFRIGERATION SYSTEM FOR 208V CONTROL WIRING. VERIFY REQUIREMENTS WITH THE REFRIGERATION AND EMS CONTRACTORS. REUSE EXISTING WHERE POSSIBLE.
8. COORDINATE LOCATIONS AND REQUIREMENTS FOR REFRIGERATION UNIT WITH REFRIGERATION CONTRACTOR.
9. RECEPTACLE FOR CONDENSATE PUMP. COORDINATE LOCATION WITH THE PLUMBING CONTRACTOR.
10. SEE SHEET E6.2 FOR INFORMATION ON KROGER PROVIDED SAFETY DISCONNECTS.
11. PROVIDE WP/GFI RECEPTACLE AT NEW ROOFTOP REFRIGERATION UNITS IF NONE ARE EXISTING WITHIN 25'. FIELD VERIFY.
12. MOUNT RECEPTACLE AT 7'-6"AFF AND SWITCH AT 5'-6"AFF TO THE SIDE OF THE FLY ZAPPER. VERIFY LOCATION.
13. PROVIDE CONNECTION TO AIR CURTAIN AS REQUIRED.
14. PROVIDE CONNECTION TO DOOR OPERATOR AS REQUIRED.
15. (4) QUAD RECEPTACLES MOUNTED INSIDE SECURED STORAGE UNIT. VERIFY EXACT LOCATIONS AND REQUIREMENTS. SEE ELEVATIONS ON THIS SHEET.
16. EXTEND EXISTING IG CIRCUIT MADE SPARE BY DEMOLITION. CIRCUIT INDICATED IS BASED ON AS-BUILT INFORMATION. FIELD VERIFY.
17. VERIFY LOCATIONS OF CLICK LIST DESK EQUIPMENT PRIOR TO ROUGH-IN. SEE ELEVATIONS ON THIS SHEET.
18. PROVIDE SECURITY SYSTEM DOOR CONTACT AND SOUNDER BASE TIED INTO EXISTING SYSTEM AS REQUIRED.
19. PROVIDE NEW FIRE ALARM DEVICE AS INDICATED. TIE ONTO EXISTING SYSTEM AS REQUIRED. PROVIDE ALL NECESSARY ACCESSORIES, POWER SUPPLIES, EXTENDERS, ETC. FOR A COMPLETE INSTALLATION.
20. 18"X18"X4" FLUSH MOUNTED JUNCTION BOX FOR TELE/DATA CABLING. EXTEND EXISTING CONDUIT AND CABLING AS REQUIRED FROM DEMOLISHED CBT ROOM. FIELD VERIFY EXISTING CONDITIONS AND EXTENT OF WORK. COORDINATE LOCATION OF J-BOX IN FIELD.

POWER NOTES (GENERAL)

1. PROVIDE ORANGE RECEPTACLE FOR ISOLATED GROUND EQUIPMENT WITH NAMEPLATE "FOR COMPUTERIZED EQUIPMENT ONLY".
2. SEE SPECIFICATIONS FOR INFORMATION ON KROGER DIRECT BUY PROGRAM.
3. ALL ELECTRICAL CONDUITS IN THE SALES AREA DESCENDING FROM ROOF FRAMING TO EITHER LOW WALLS OR EQUIPMENT SHOULD BE COORDINATED AND GROUPED TOGETHER WITH OTHER MECHANICAL PIPES.
4. ALL JUNCTION BOXES (J) ARE 120V UNLESS INDICATED OTHERWISE.
5. FIELD VERIFY ALL EXISTING CONDITIONS.
6. IDENTIFY CIRCUIT #'S IN PANEL AND ON RED LINE "AS-BUILT" SET.
7. SEE ESD-26 FOR CONDUIT INSTALLATION DETAILS AT PREFAB, INSULATED CEILING PANELS.

ELECTRICAL KEY NOTES

	QUANITY	NAME	ELECTRICAL REQUIRMENTS
1	1	E38TP	375W FOR THERMAL PRINTER
2	1	GE156	120V 250W ELEC FED FROM RACEWAY FOR EFT PIN PAD & CREDIT CARD READER
3	1	GE38S	29W (DEDICATED CKT) FOR POS TERMINAL. WIRED TO KROGER SUB PANEL (NOT STARBUCKS PANEL)
4	1	GE38	120V 500W FOR REGISTER (DEDICATED CKT)
5	1	DR36CL	5A FOR FREEZER DOORS ONLY
6	1	DR36CR	5A FOR FREEZER DOORS ONLY
7	1	DR45SLRE	120V, 5AMP, FOR 9' RIGHT SINGLE SLIDER (EXTERIOR) ENTRANCE DOOR (CONNECTION AT HEADER ON LEFT SIDE OF DOOR LOOKING IN)
8	2	E102	56W FOR THINCLIENT & MONITOR
9	3	E46	120V, 360W, FOR CHARGER KIT FOR WEARABLE TERMINALS
10	2	E47	120V, 100W FOR LABLE PRINTER
11	1	E6	960W FOR MFP (FAX PRINTER COPIER SCANNER), COORDINATE RCPT HGT WITH COUNTER
12	1	GE1	115V/60HZ 80W 7'-6" AB FL FOR FLY ZAPPER. MOUNT SWITCH 5'-6" AB FL
13	1	GE41	COORDINATE PLUGMOLD LENGTH, MOUNTING AND CONDUIT ROUTING REQUIREMENTS WITH MILLWORK SHOP DRAWINGS
14	2	P31T	120V 1PH .75AMPS FOR SERVICE SCALE/UPC PRINTER (TOLEDO), MOUNT RCPT 4'-0" AB FL. PROVIDE A 3/4" CONDUIT TO ECR ROOM

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ELECTRICAL ENLARGED PLAN AND DETAILS
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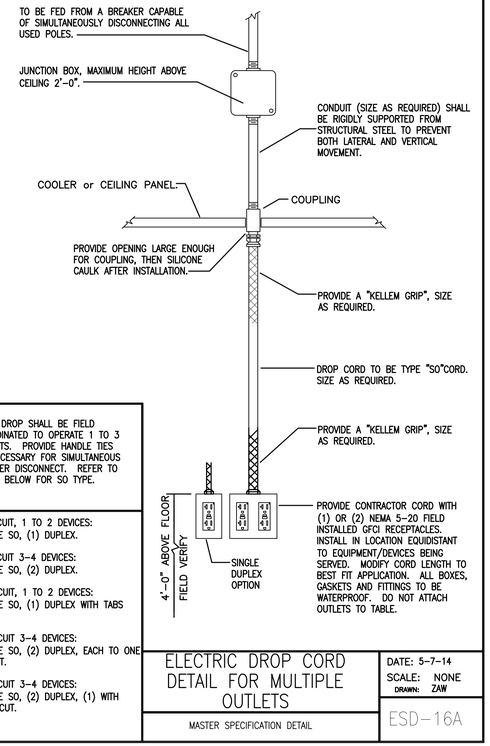
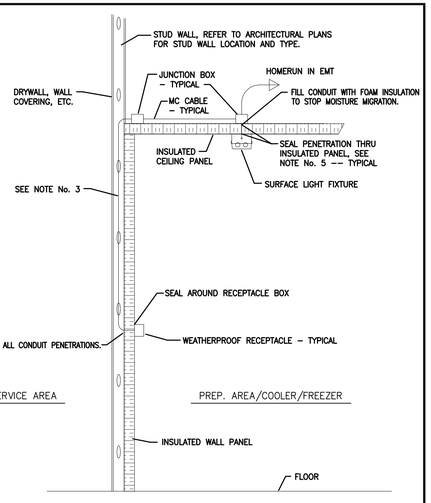


ELECTRIC DROP CORD DETAIL FOR MULTIPLE OUTLETS

MASTER SPECIFICATION DETAIL

DATE: 5-7-14
SCALE: NONE
DRAWN: ZAW

ESD-16A



NOTES:

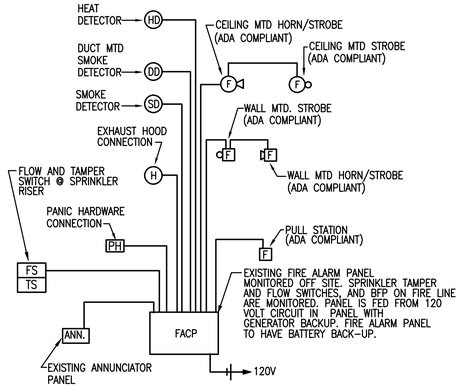
1. EXPOSED SURFACE MOUNTED CONDUITS WILL NOT BE PERMITTED IN ANY PREP. ROOMS, COOLERS OR FREEZERS.
2. ALL CONDUITS TO STAB THRU PREFABRICATED INSULATED PANEL TO COVERED IN-USE WEATHERPROOF RECEPTACLE WITHIN.
3. MC CABLE PERMITTED IN WALL CAVITY THAT IS ACCESSIBLE FOR FUTURE REWORK OF RECEPTACLES. INSTALL WIRING IN ACCORDANCE WITH SPEC. SECTION 26 05 19. EMT TO BE USED IN ALL WALLS WHERE INACCESSIBLE IN FUTURE AND WITHOUT STUD WALL, SURFACE MOUNTED CONDUIT ON PREFAB PANELS EXPOSED IN BACK ROOM PROTECTED BY CONCRETE CURB.
4. LIGHTING ELECTRICAL FEED THRU TOP CONNECTION OF END FIXTURE THEN THRU END CONNECTION POINT OF THE REMAINING LIGHT FIXTURES IN CONTINUOUS ROW. REPEAT AS REQUIRED BY EACH ADDITIONAL LIGHT FIXTURE OR LIGHT FIXTURE ROW.
5. SEAL AROUND ALL RECEPTACLES AND ALL ELECTRICAL PENETRATIONS THRU INSULATED PANELS WITH CLEAR SILICONE CAULK. SEAL ON BOTH SIDES.

CONDUIT INSTALL. FOR AREAS WITH PREFAB. INSULATED PANEL CEILING

MASTER SPECIFICATION DETAIL

DATE:7/29/14
SCALE: NONE
DRAWN: ZAW

ESD-26



NOTES

1. INSTALLATION SHALL MEET ALL ADA REQUIREMENTS.
2. VERIFY QUANTITIES ON PLAN.
3. PROVIDE ADDITIONAL POWER SUPPLIES, EXTENDER PANELS, ETC. AS REQUIRED.
4. SYSTEM IS EXISTING TO REMAIN WITH DEVICE RELOCATIONS AND ADDITIONS AS SHOWN ON SHEET E4.1.

2 / E6.2 FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.

VA	SERVICE	WIRE	MOPD	TYPE	CIR.	CL	CIR.	TYPE	MOPD	WIRE	SERVICE	VA
291	FRZR EVAP FANS	12	15/2	10K	1		2	10K				2940
291				10K	3		4	10K	35/3	8	FRZR INDOOR UNIT	2940
456	COOLER EVAP FANS	12	15/1	10K	5		6	10K				2940
1200	FREEZER HEAT TAPE	12	20/1	10K	7		8	10K				2460
240	CONDENSATE PUMP	12	20/1	10K	9		10	10K	30/3	10	COOLER INDOOR UNIT	2460
540	AIR CURTAIN	12	20/1	10K	11		12	10K				2460
600	DOOR OPERATOR	12	20/1	10K	13		14	10K				510
1080	E46 CHARGER RECEPTS.	12	20/1	10K	15		16	10K	15/3	12	FRZR OUTDOOR UNIT	510
1016	RECEPTACLES	12	20/1	10K	17		18	10K				510
881	RECEPTACLES	12	20/1	10K	19		20	10K				510
940	PLUGMOLD	12	20/1	10K	21		22	10K	15/3	12	COOLER OUTDOOR UNIT	510
–	SPARE	–	20/1	10K	23		24	10K				510
–	SPARE	–	20/1	10K	25		26	10K				1920
–	SPARE	–	20/1	10K	27		28	10K	20/3	12	FRZR EVAP DEFROST	1920
–	SPARE	–	20/1	10K	29		30	10K				1920

LOCATION : CLICK LIST
PANEL MOUNTING : RECESSED / TOP FED
SERVICE : 120/208V, 3PH, 4W
MAINS : 125 AMP MLO
TYPE: 10K
FED FROM PANEL "LDPA" (125A)

NOTES:
1. (LO) = LOCK-ON DEVICE

NEW PANEL

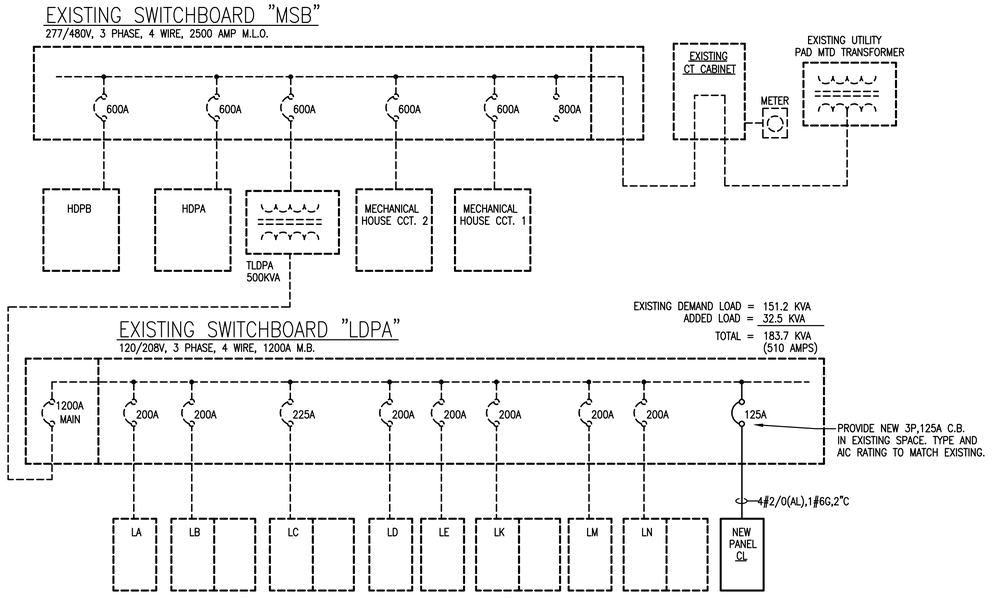
PHASE A = 11,312 VA
PHASE B = 10,891 VA
PHASE C = 10,352 VA
TOTAL = 32,555 VA
(90 AMPS)

LOAD BREAKDOWN

SERVICE : 277/480V-3PH-4W, 2500A

CONNECTED LOAD	CONNECTED KVA
EXISTING DEMAND LOAD: 504 KWD ($\frac{1}{.85}$ PF)(1.25)	741.1
ADDED RECEPTACLES	3.9
ADDED REFRIGERATION EQUIP.	26.0
ADDED MISC.	2.6
TOTALS:	773.6 KVA
÷ $\sqrt{3}$ 480V =	931 AMPS

NOTE: NEW LIGHTING LOADS OFFSET BY REMOVAL OF EXISTING.



1 / E6.2 PARTIAL SINGLE LINE ELECTRICAL DIAGRAM

SCALE: N.T.S.

NOTES:
1. ALL WIRE SHALL BE THHN/THWN COPPER, UNLESS INDICATED OTHERWISE.
2. "DASHED LINE" ITEMS ARE EXISTING.

CAPSTONE
project services, plc
ARCHITECT
333 S. TAMIAMI TRL., SUITE 293
VENICE, FL. 34285

SEAL

STEVE W. HAAS, P.E.
ELECTRICAL ENGINEER
P.O. BOX 37281 CHARLOTTE, N.C.
(704) 333-6590 FAX (704) 343-0075

CONSULTANTS

AN ONLINE SHOPPING ADDITION FOR:
KROGER R-391
ROUTE 460 EAST
ROANOKE, VA

PROJECT INFO KROGER MID-ATLANTIC

11-13-2015
DATE CONSTRUCTION SET

SINGLE LINE ELECTRICAL DIAGRAM

SHEET TITLE

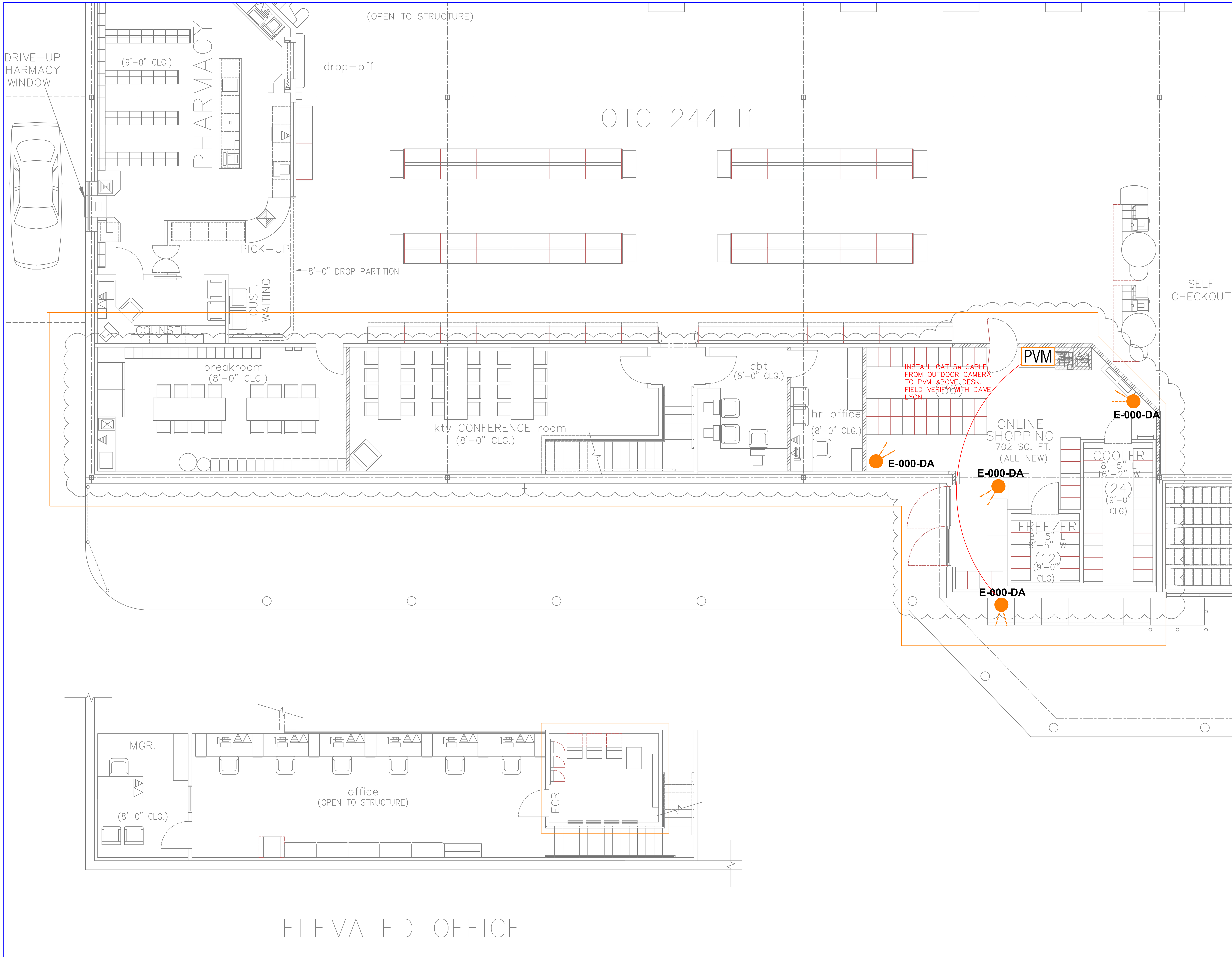
REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 15309
CAD DWG FILE: R-391 E6.2
DRAWN BY: WSM
CHK'D BY: SWH

E6.2

SHEET NO.



NOTE:
THIS DRAWING IS INTENDED ONLY TO SHOW THE REQUIREMENTS OF THE KROGER CO. THE DESIGN OF THE BUILDING TO CONFORM TO ALL APPLICABLE LAWS, CODES, REGULATIONS, ORDINANCES AND APPROVAL OF THE INSPECTION AUTHORITIES HAVING JURISDICTION IS THE RESPONSIBILITY OF THE ARCHITECT EMPLOYED BY THE OWNER.

MID-ATLANTIC
DIVISION
3631 PETERS CREEK ROAD
ROANOKE, VA
PHONE: (540) 563-3646 FAX: (540) 563-3638

Kroger
GENERAL OFFICE
FACILITY ENGINEERING
1014 VINE ST, CINCINNATI, OHIO 45202
PH: (513) 762-1467 FAX: (513) 762-4012

MINOR CAPITAL
R-391
ROUTE 460 E.
ROANOKE, VA

CURRENT PLAN DATE: 9/24/2015
ORIGINAL PLAN DATE: 9/24/2015

DRAWN:	CHECKED:
J EDWARDS	D BUSAM

REVISIONS:

STANDARD PLOTTED SCALE: NONE

BUILDING STATS:

TOTAL SHELVING	3,537 LF
SALES AREA % OF GROSS BUILDING	63,125 SF 76 %
BASE STORE	78,112 SF
MEZZANINE	861 SF
DOCK / UTILITY	3,887 SF

GROSS BUILDING
82,860 SF

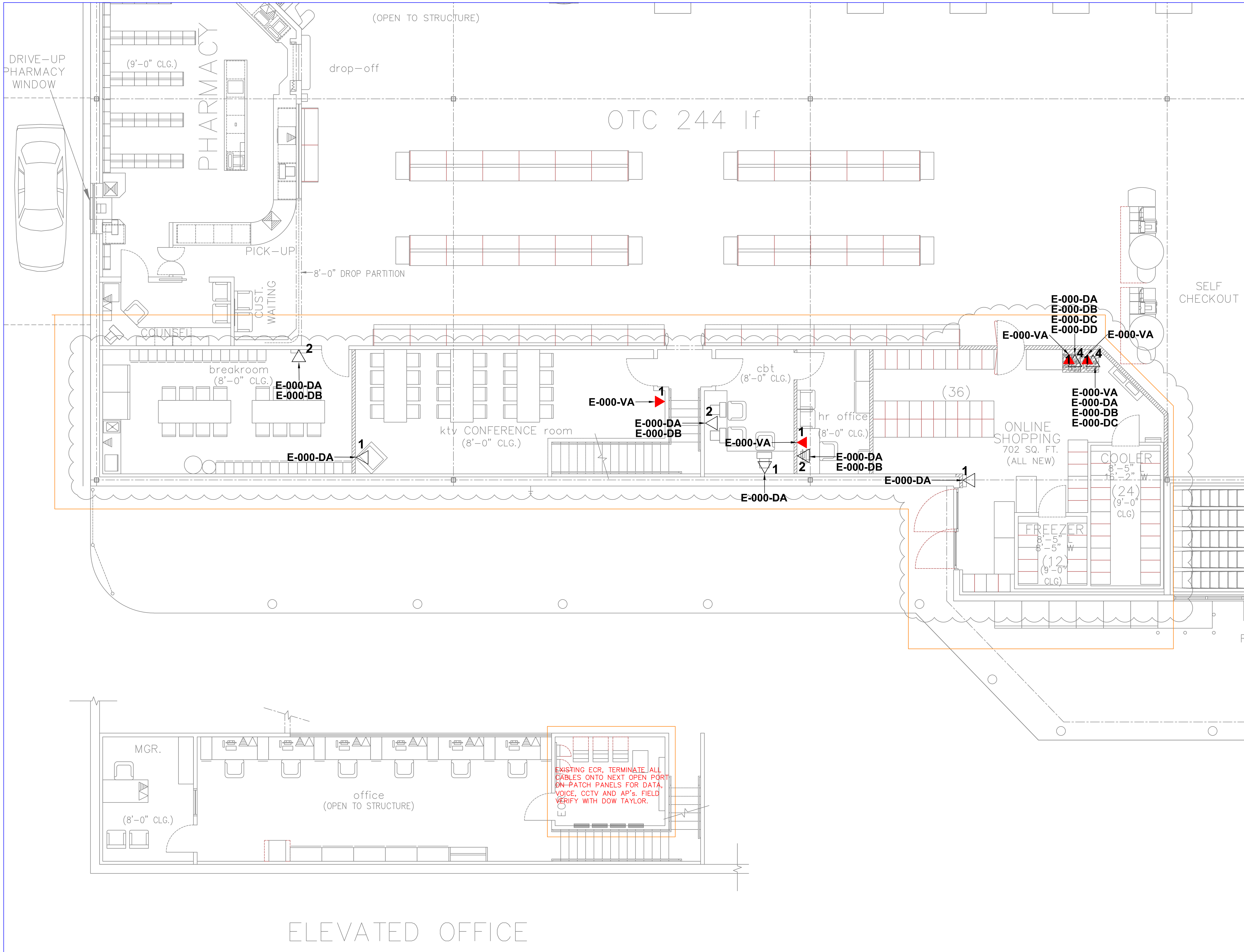
LOSS
PREVENTION

STEEL PACKAGE ID: Not Applicable

R-391

SHEET: T1.2

CAD FILE:



MID-ATLANTIC DIVISION

3631 PETERS CREEK ROAD
ROANOKE, VA

PHONE: (540) 563-3646 FAX: (540) 563-3638

Kroger GENERAL OFFICE FACILITY ENGINEERING

MINOR CAPITAL
R-391
ROUTE 460 E.
ROANOKE, VA

CURRENT PLAN DATE:	9/24/2015
ORIGINAL PLAN DATE:	9/24/2015
DRAWN: J EDWARDS	CHECKED: D BUSAM
REVISIONS:	
STANDARD PLOTTED SCALE:	NONE
BUILDING STATS:	
TOTAL SHELVING	3,537 LF
SALES AREA (% OF GROSS BUILDING)	63,125 SF (76 %)
BASE STORE	78,112 SF
MEZZANINE	861 SF
DOCK / UTILITY	3,887 SF
GROSS BUILDING	82,860 SF

ECR DROP LOCATIONS

STEEL PACKAGE ID: Not Applicable

R-391

SHEET: T1.3.1

CAD FILE:

(OPEN TO STRUCTURE)

DRIVE-UP PHARMACY WINDOW

(9'-0" CLG.)

PHARMACY

drop-off

OTC 244 lf

PICK-UP

8'-0" DROP PARTITION

CUST. WAITING

COUNSEL

SELF CHECKOUT

breakroom (8'-0" CLG.)

kty CONFERENCE room (8'-0" CLG.)

cbt (8'-0" CLG.)

hr office (8'-0" CLG.)

(36)

FIELD VERIFY WITH RICH INMAN LOCATION AND TYPE OF AP OR ZOOTER FOR CLICKLIST AREA.

W Z 1 GA E1W-00

ONLINE SHOPPING 702 SQ. FT. (ALL NEW)

COOLER 8'-5" L 15'-2" W (24) (9'-0" CLG)

FREEZER 8'-5" L 8'-5" W (12) (9'-0" CLG)

FIELD VERIFY WITH RICH INMAN LOCATION AND TYPE OF AP OR ZOOTER FOR CLICKLIST AREA.

1 E1W-00

MGR.

office (OPEN TO STRUCTURE)

(8'-0" CLG.)

ECR

ELEVATED OFFICE

NOTE:
DRAWING IS INTENDED ONLY TO DEPICT THE REQUIREMENTS OF THE ATTACHED CLICKLIST. IT IS NOT INTENDED TO BE A COMPLETE DESIGN OF THE BUILDING. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO COMPLY WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO DESIGN THE BUILDING TO COMPLY WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS. IT IS THE RESPONSIBILITY OF THE ARCHITECT EMPLOYED BY THE OWNER, ASSOCIATION, OR THE RESPONSIBILITY OF THE ARCHITECT EMPLOYED BY THE OWNER.

MID-ATLANTIC DIVISION
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ROANOKE, VA
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Kroger
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PH (513) 762-1437 FAX (513) 762-1455

MINOR CAPITAL
R-391
ROUTE 460 E.
ROANOKE, VA

CURRENT PLAN DATE: 9/24/2015
ORIGINAL PLAN DATE: 9/24/2015
DRAWN: J. EDWARDS
CHECKED: D. BUSAM
REVISIONS:
STANDARD PLOTTED SCALE: NONE

BUILDING STATS:

TOTAL SHELVING	3,537 LF
SALES AREA % OF GROSS BUILDING	63,125 SF 76 %
BASE STORE	78,112 SF
MEZZANINE	861 SF
DOCK / UTILITY	3,887 SF

GROSS BUILDING: 82,860 SF

TEMP / ZOOTER LOCATIONS

STEEL PACKAGE ID: Not Applicable

R-391

SHEET: T1.6.1

CAD FILE:

C:\Virigina\R 391 Clicklist\Design R391 T1.1-T1.3.dwg, 11/10/2015 11:14:42 AM, DWF6 ePlot.pc3