

1 EGRESS PLAN

Major Code Classification Summary - 2020 Whole Foods Market Addition And Build Development - Boston, MA

1.0 Introduction
 1.01 GENERAL NOTES: This document contains drawings representing the proposed Whole Foods market addition at the Ink Block Development in Boston, Massachusetts.

The Ink Block Development is a full building project consisting of the existing Whole Foods Market building and 400,000 sq ft addition. The addition is a 4-story building with 100,000 sq ft of retail space and 300,000 sq ft of office space. The existing Whole Foods Market building is a 2-story building with 100,000 sq ft of retail space and 100,000 sq ft of office space.

The project is located at 100 State Street, Boston, MA 02109. The project is owned by Whole Foods Market, Inc. and is being developed by Whole Foods Market, Inc. The project is scheduled to be completed in 2020.

The drawings are prepared in accordance with the Massachusetts State Building Code (MSBC) and the International Building Code (IBC) 2018 Edition. The drawings are prepared by Jacobs Engineering Group, Inc. (JEG) and are subject to the review and approval of the City of Boston and the State of Massachusetts.

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2.0 Regulatory Code
 2.01 REGULATORY CODE: This section lists the regulatory codes that apply to the project. The codes are listed in the following table:

Code	Description
Building	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Fire Protection	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Accessibility	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Education	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Other	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition

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3.0 Means of Egress
 3.01 MEANS OF EGRESS: This section describes the means of egress for the project. The means of egress are described in the following table:

Exit	Description
EXIT #1	EXIT #1 (72') - EXIT #1 (72')
EXIT #2	EXIT #2 (70 3/4') - EXIT #2 (70 3/4')

Major Code Classification Summary - 2020 Whole Foods Market Addition And Build Development - Boston, MA

4.0 Code Classification
 4.01 CODE CLASSIFICATION: This section describes the code classification for the project. The code classification is described in the following table:

Code	Description
Building	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Fire Protection	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Accessibility	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Education	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition
Other	International Building Code (IBC) 2018 Edition, Massachusetts State Building Code (MSBC) 2018 Edition

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5.0 Construction Classification
 5.01 CONSTRUCTION CLASSIFICATION: This section describes the construction classification for the project. The construction classification is described in the following table:

Classification	Description
Primary Structure	Primary Structure
Secondary Structure	Secondary Structure
Other	Other

Major Code Classification Summary - 2020 Whole Foods Market Addition And Build Development - Boston, MA

6.0 Fire Protection
 6.01 FIRE PROTECTION: This section describes the fire protection for the project. The fire protection is described in the following table:

System	Description
Fire Alarm	Fire Alarm
Fire Sprinkler	Fire Sprinkler
Other	Other

Major Code Classification Summary - 2020 Whole Foods Market Addition And Build Development - Boston, MA

7.0 Mechanical
 7.01 MECHANICAL: This section describes the mechanical for the project. The mechanical is described in the following table:

System	Description
HVAC	HVAC
Other	Other

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8.0 Electrical
 8.01 ELECTRICAL: This section describes the electrical for the project. The electrical is described in the following table:

System	Description
Power	Power
Lighting	Lighting
Other	Other



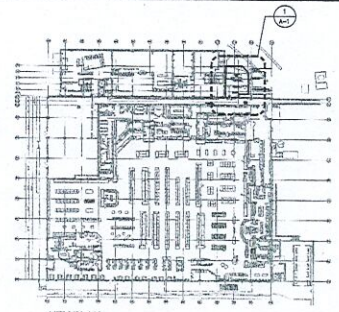
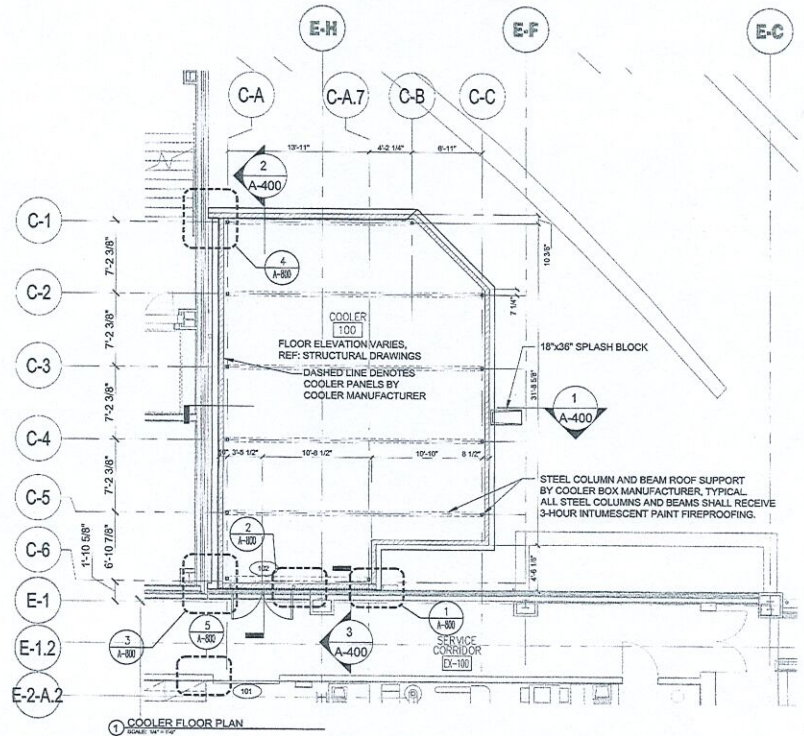
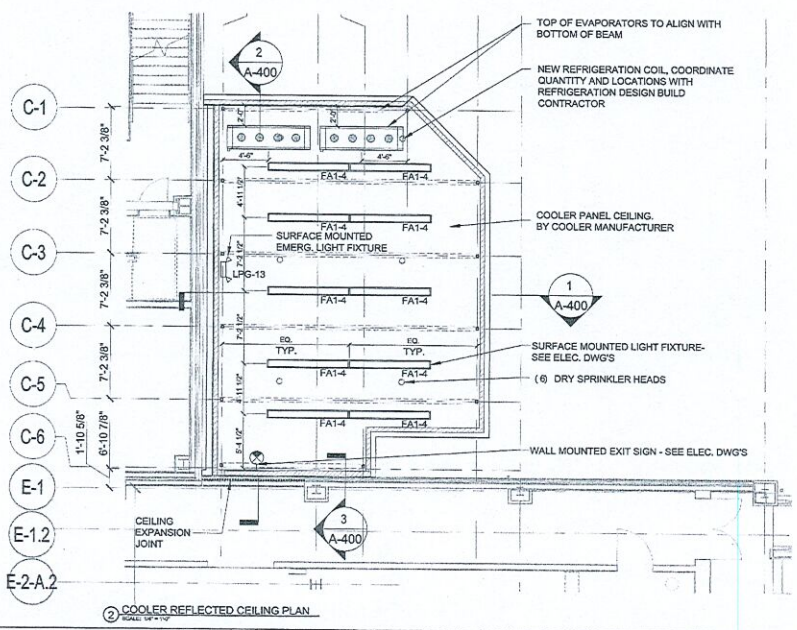
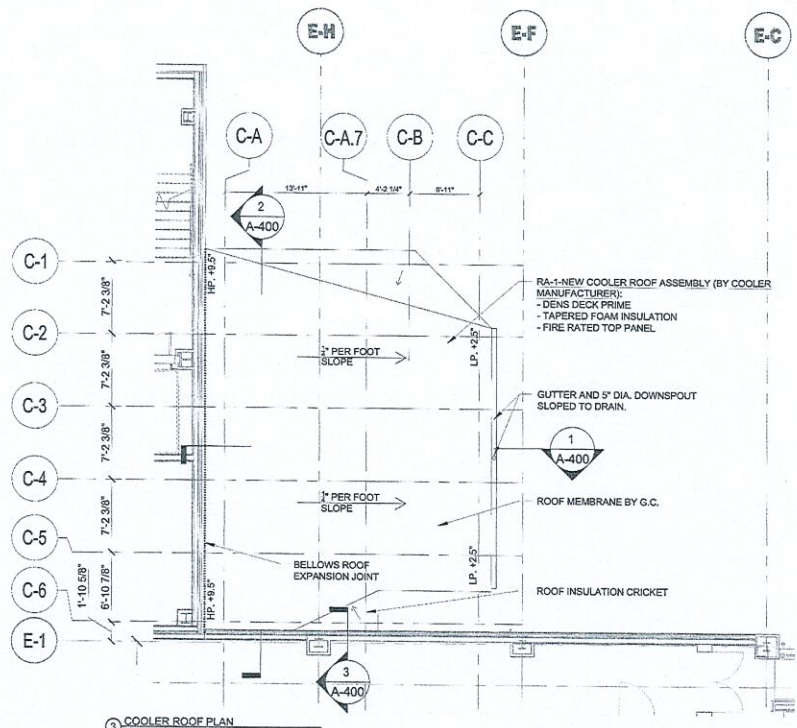
General Note:

Project Code
WHOLE FOODS
 North Atlantic Region
 270 State Street
 Boston, MA 02109
 P: 617.441.8400
 F: 617.441.7400
 www.jacobs.com

WHOLE FOODS MARKET EXTERIOR COOLER

Ink Block Boston, MA

Number	Description	Date
1	ISSUED FOR PERMITTING	01/10/2020
2	ISSUED FOR PERMITTING	01/10/2020
3	ISSUED FOR PERMITTING	01/10/2020
4	ISSUED FOR PERMITTING	01/10/2020
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98	ISSUED FOR PERMITTING	01/10/2020
99	ISSUED FOR PERMITTING	01/10/2020
100	ISSUED FOR PERMITTING	01/10/2020



DOOR SCHEDULE

DOOR #	LOCATION	DOOR SIZE	DOOR TYPE	FINISH	REMARKS
101	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1
102	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1
103	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1
104	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1
105	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1
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198	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1
199	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1
200	INT. TO OFFICE	6'-0" x 6'-0"	1	1	1

AS SCHEDULED

AS SCHEDULED

AS SCHEDULED

- GENERAL NOTES:**
- CONTRACTOR TO COORDINATE ALL WORK WITH PROJECT SCHEDULE AND SCHEDULE OF WORK FROM THIS PLACE WITH AN OPERATING FACILITY.
 - CONTRACTOR TO PROVIDE ALL SILENT PROTECTION AND COORDINATE SILENT PROTECTION MATERIALS AND LOCATIONS WITH THE PROJECT SCHEDULE.
 - ALL REFRIGERATION WORK IS TO BE DESIGNED BY THE CONTRACTOR.
 - G.C. TO PARTICIPATE TO MATCH ALL EXISTING AREAS TO REMAIN THAT HAVE BEEN OBTAINED BY CONSTRUCTION.
 - G.C. TO FIELD VERIFY ANY PROPOSED ALL UTILITIES AS REQUIRED FOR ALL NEW AND RELOCATED CABLES AND EQUIPMENT.
 - CONTRACTOR SHALL PROVIDE ALL MEANS OF PROTECTION OF THE PUBLIC, EMPLOYEES AND SUBCONTRACTORS AND EXISTING CONSTRUCTION AND WORK IN PLACE DURING CONSTRUCTION.

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 CONSULTANTS, INC.
 100 Massachusetts Ave., 19th Floor
 Boston, MA 02111
 P: 617-451-6600
 F: 617-451-6100
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Project Name:
WHOLE FOODS
 North Atlantic Region
 200 Lowell Street
 North Andover, MA 01855
 P: 617-452-3000
 F: 617-452-3000
 W: www.wholefoodsmarket.com

WHOLE FOODS MARKET
 EXTERIOR COOLER
 Ink Block
 Boston, MA

Revision	Description	Date
1	ISSUED FOR PERMIT	05/20/2014
2	ISSUED FOR CONSTRUCTION	05/20/2014

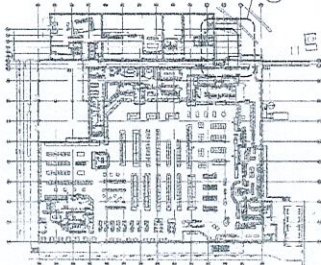
Drawn By: L500417
 Checked By: 2011 Jacobs Engineering Group, Inc.

Drawing Sheet Title:
FLOOR PLAN REFLECTED CEILING PLAN & ROOF PLAN

Drawing Sheet Number:
A-100

GENERAL NOTES:

- CONTRACTOR TO COORDINATE ALL WORK WITH THE PROJECT ARCHITECT AND GENERAL CONTRACTOR TO MAINTAIN THE WORK AREA AND OPERATING FACILITY.
- CONTRACTOR TO PROVIDE ALL COST ESTIMATES AND MATERIALS AND LABORERS WITH APPROPRIATE PERMITS.
- ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK TO BE COMPLETED BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND INSURANCE COVERAGE AND MAINTAIN ALL NECESSARY RECORDS.
- CONTRACTOR TO MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
- ALL MATERIALS AND LABORERS TO BE PROVIDED BY THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
- ALL MATERIALS AND LABORERS TO BE PROVIDED BY THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
- ALL MATERIALS AND LABORERS TO BE PROVIDED BY THE CONTRACTOR.



BUILDING FOUNDATIONS

THE PROPERTY HAS AN ACTIVE AND/OR LATENT POLLUTION RISK. THE CONTRACTOR SHALL INVESTIGATE AND REMEDIATE ANY CONTAMINATION THAT MAY BE PRESENT ON THE PROPERTY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK.

SUBGRADE PREPARATION

THE CONTRACTOR SHALL INVESTIGATE AND REMEDIATE ANY CONTAMINATION THAT MAY BE PRESENT ON THE PROPERTY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK.

REUSE OF EXISTING MATERIALS

THE CONTRACTOR SHALL INVESTIGATE AND REMEDIATE ANY CONTAMINATION THAT MAY BE PRESENT ON THE PROPERTY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK.

FILL MATERIAL AND COMPACTION

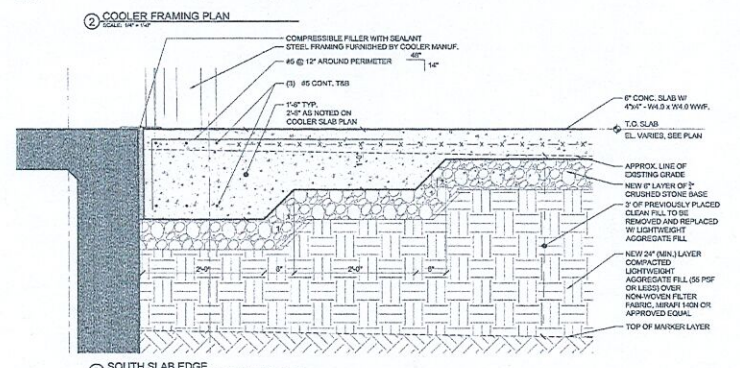
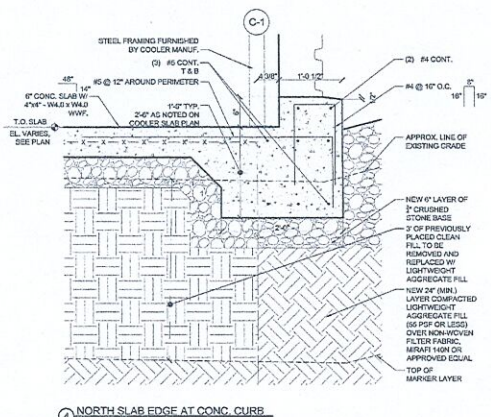
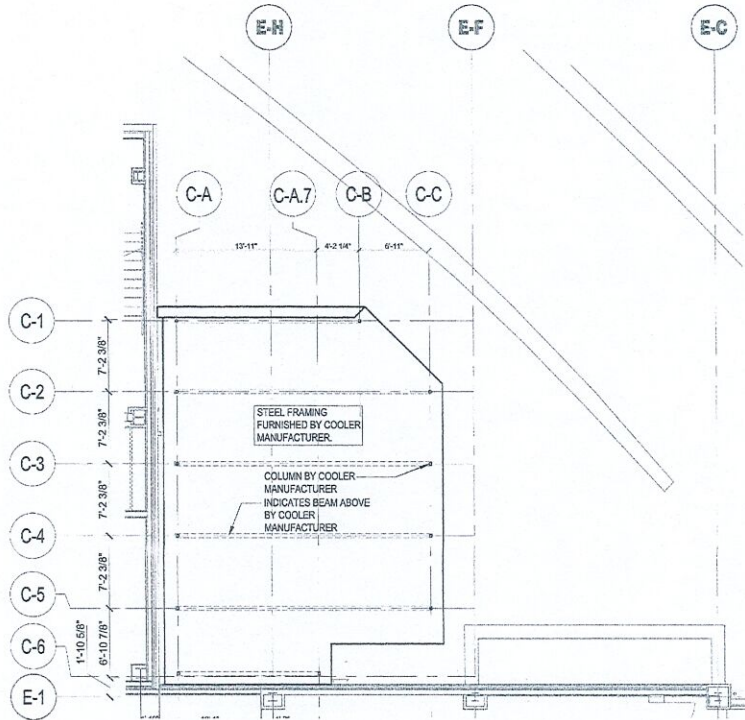
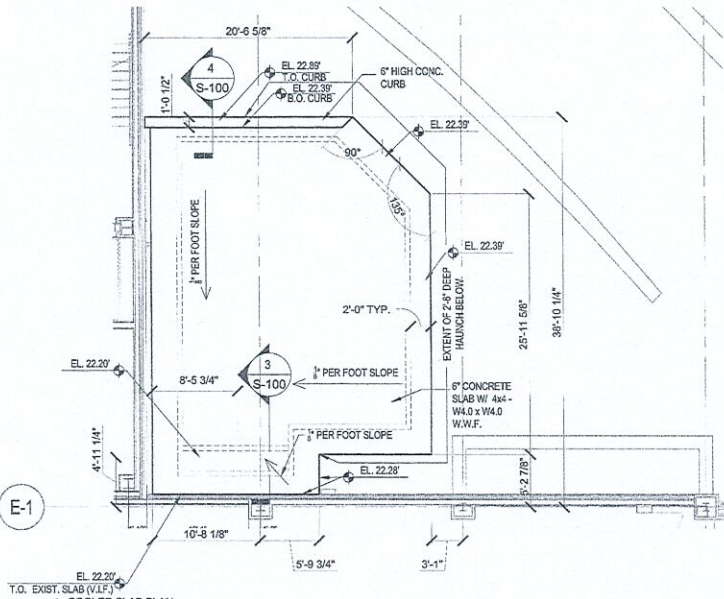
THE CONTRACTOR SHALL INVESTIGATE AND REMEDIATE ANY CONTAMINATION THAT MAY BE PRESENT ON THE PROPERTY. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INVESTIGATIONS AND REMEDIATION WORK.

DEPTH (FEET)	PERCENTAGE FINING
0-12"	100%
12-24"	100%
24-36"	100%
36-48"	100%
48-60"	100%
60-72"	100%
72-84"	100%
84-96"	100%
96-108"	100%
108-120"	100%
120-132"	100%
132-144"	100%
144-156"	100%
156-168"	100%
168-180"	100%
180-192"	100%
192-204"	100%
204-216"	100%
216-228"	100%
228-240"	100%
240-252"	100%
252-264"	100%
264-276"	100%
276-288"	100%
288-300"	100%

CONCRETE SHALL BE COMPACTED WITH AT LEAST 75% OF THE VIBROPLATE COMPACTOR TO THE UNDISTURBED SURFACE.

CONCRETE

- MINIMUM 4" THICK NORMAL WEIGHT CONCRETE.
- MINIMUM 4" THICK CONCRETE WITH 1" REINFORCING BARS AT 18" ON CENTER.
- MINIMUM 4" THICK CONCRETE WITH 1" REINFORCING BARS AT 18" ON CENTER.
- MINIMUM 4" THICK CONCRETE WITH 1" REINFORCING BARS AT 18" ON CENTER.
- MINIMUM 4" THICK CONCRETE WITH 1" REINFORCING BARS AT 18" ON CENTER.
- MINIMUM 4" THICK CONCRETE WITH 1" REINFORCING BARS AT 18" ON CENTER.
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- MINIMUM 4" THICK CONCRETE WITH 1" REINFORCING BARS AT 18" ON CENTER.
- MINIMUM 4" THICK CONCRETE WITH 1" REINFORCING BARS AT 18" ON CENTER.



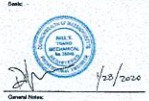
JACOBS
JACOBS CONSULTANTS, INC.
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Project Name:
WHOLE FOODS MARKET EXTERIOR COOLER
Ink Block
Boston, MA

Number	Description	Date
01	Initial Design	10/15/10
02	Final Design	11/15/10

Scale:
Drawing Sheet Number:
S-100
Drawing Sheet Name:



SPRINKLER NOTES

- 1.1 CODE REQUIREMENTS:
 1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY NOTICES, PERMITS AND PAY ALL FEES, IN ORDER THAT THE WORK HEREIN SPECIFIED MAY BE CARRIED OUT, AND SHALL FURNISH ANY CERTIFICATES NECESSARY AS DEMAND, THAT THE WORK DESCRIBED COMPLES WITH ALL LOCAL, STATE AND FEDERAL AUTHORITIES.
 2. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE CONDITIONS AND SCOPE OF THE WORK.
 3. ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND THE FOLLOWING NATIONAL FIRE PROTECTION CODES AND STANDARDS AS NOTIFIED BY FACTORY MANUALS AND OTHER PUBLISHED CODES:
 - a. NFPA-13 (2017).
 4. INSTALL A COMPLETE ANTIFREEZE LOOP UPON THE NEW COOLER CONNECTING TO THE EXISTING NET SPRINKLER SYSTEM.

1.2 DESIGN CRITERIA

1. GENERAL:
 1. COORDINATE LOCATION OF SPRINKLER HEADS WITH OTHERS AND LISTINGS.
 2. ALL SPRINKLER BRACES ARE TO BE FULL LISTED AND APPROVED BY INSURANCE CARRIER FOR FIRE PROTECTION.
 3. SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH SCHEDULE 57S PIPE FITTINGS.
- 1.3 HYDRANTIC DESIGN DATA:
 1. WATER QUANTITY AND SQUARE FOOT REQUIREMENTS CALCULATION TO MODEL THE MOST VULNERABLE AREA REFER TO SPRINKLER SYSTEM DESIGN CRITERIA THIS SHEET. THESE REQUIREMENTS SHALL BE USED TO CALCULATE THE SYSTEM. CALCULATION TO BE PROVIDED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER AND BE STAMPED AND SUBMITTED WITH WORKING PLANS/SHOP DRAWINGS FOR REVIEW.

1.4 SPRINKLER HEADS

1. SPRINKLER HEADS PROVIDED SHALL BE CRISTE PLATED PENDANT SPRINKLER AND SHALL MEET SPRINKLER IN CODE FOR TEMP RATING AND MANUFACTURER.

1.5 GENERAL

1. WORKING PLANS/SHOP DRAWINGS INDICATING THE FINAL DESIGN LAYOUT ARE REQUIRED AND SHALL BE DRAWN NO SMALLER THAN 1/8" x 1/4" AND ALL WALLS, PARTITIONS, SERVICE CEILING PATTERNS, ETC. SHALL BE INDICATED OUT OF FUNCTION ON THE SHOP DRAWINGS TO SHOW FUTURE RELOCATION OF THE SPRINKLER PIPING TO THE BUILDING. DRAWINGS SHALL BE STAMPED AND SIGNED BY A FIRE PROTECTION ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS. DRAWINGS TO BE PROVIDED FOR THE SUBMITTAL PLANS REVIEW, OWNER RECORDING, PERMITS AND LISTING REQUIREMENTS.
- NO WORK SHALL COME IN CONTACT WITH SPRINKLER SYSTEMS UNLESS APPROVED AS NOTED SET OF DRAWINGS STAMPED BY THE ENGINEER, BUILDING DEPARTMENT, AND THE INSURANCE CARRIER.
- PROVIDE NEW HYDRANT FLOW TEST AT THE TWO LOCATED HYDRANT FOR USE IN THE DESIGN. THE CONTRACTOR SHALL FURNISH THE HYDRANT FLOW TEST AND PROVIDE INFORMATION TO THE LISTENER, THE FIRE DEPARTMENT AND THE INSURANCE UNDERWRITER.
- HYDRANT FLOW TEST FOR THE DESIGN SHALL BE TAKEN AT HIGHEST DAY OF THE WEEK AT WORST TIME OF DAY AS DETERMINED BY LOCAL WATER DEPARTMENT. DESIGN SHALL HAVE A 15% PIPE SAFETY FACTOR ON THE HIGHEST DAY, WORST TIME.
- THE SPRINKLER SYSTEM SHALL BE HYDRANTICALLY DESIGNED TO NFPA-13, USING THE MOST CURRENT HYDRANT FLOW TEST DATA, (NOT MORE THAN ONE YEAR OLD).
- THE LATEST DATA AVAILABLE TO DATE IS AS FOLLOWS:

1- LATEST	80-500 GPM	2- RECOMMEND	80 PSI
2- STATIC	50 PSI	4- FLOW	1000 GPM
- ANY DAMAGE DONE TO THE BUILDING AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED OR RETAINED BY THE CONTRACTOR AT HIS OWN RISK.
- STILL PINK CEILING TO BE INSTALLED WHERE PIPING PASSES THROUGH MASONRY OR CONCRETE WALLS WITH CLEANING BETWEEN PIPES AND CEILING. FIRE STOP BETWEEN CEILING AND PIPE AT EXTERIOR WALL AND WALL MASONRY.

1.6 VALVE CLOSURES

1. THE SPRINKLER CONTRACTOR SHALL COORDINATE ALL VALVE CLOSURES WHICH MAY IMPAIR BEHIND FIRE PROTECTION SYSTEMS WITH THE LOCAL FIRE DEPARTMENT AND GENERAL CONTRACTOR. PROTECTIVE FIRE WORK IS REQUIRED BY THE EXPERIENCE.

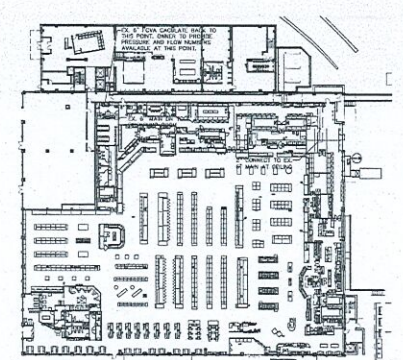
1.7 CONTRACT DOCUMENTS

1. THE SHOP DRAWINGS SHALL CONTAIN NAMES OF ALL AREAS AND ROOMS.
1. THE SPRINKLER CONTRACTOR SHALL PREPARE A BIDDING PLAN SHOWING THE EXACT LOCATION OF ALL NEW SPRINKLER HEADS AND PIPING.

1.8 FLOODING AND TESTING PIPE (AODUC CRACK)

1. ABOVE GROUND:
 1. TEST ALL OVERHEAD SPRINKLER PIPING FOR A PERIOD OF 2 HOURS AT WORKING PRESSURE, IN ACCORDANCE WITH NFPA 13.2
 2. CONDITIONS THAT MAY INDICATE THE NEED OF INVESTIGATION INCLUDE THE FOLLOWING:
 - a. DISCHARGE OF STRUCTURAL MATERIAL DURING ROUTINE WATER TESTS.
 - b. HEAVY ACCUMULATION OF WATER DURING SHOWN TESTS OR FLOODING OF INSPECTOR'S TEST CONNECTIONS.
2. ALL ABOVE GROUND PIPING SHALL BE FLOODING AND TESTED PRIOR TO THE INSTALLATION OF CEILING TO NEW EXISTING ANY SECTION OF THE TEST WORK.
4. PROVIDE CONTRACTOR'S INITIALS AND TEST CERTIFICATE FOR ABOVE GROUND PIPING ACCORDANCE WITH NFPA-13.

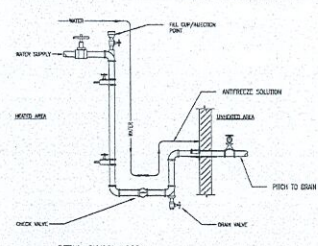
STYLE	MANUF.	MODEL	K-FACT.	ORIFICE	DESIGNATION	REMARKS
FRONT	WHEAT	EM800	3.6	1/2"	NET APPLICABLE	FRONTIC TEMP. RATING TESTED AND MAX. AMBIENT TEMPERATURE 170°F. APPROXIMATE 0L-CALL THE MANUFACTURER FOR DETAILS. WORKING PRESSURE: 250 PSI, MAX. OPERATING PRESSURE: 7 PSI. DESIGN SIZE: 1/2" NPS. SPRINKLER MATERIALS: CHROME PLATED BRASS CASTINGS.



① KEY PLAN
SCALE: 1/4" = 1'-0"

SPRINKLER NOTES

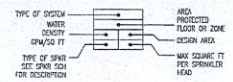
- 1.5 ENCASEMENT PROTECTION:
 1. PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH NFPA-13 AND THE STATE BUILDING CODE.
 2. LISTED FLEXIBLE PIPE COUPLINGS JOINING GROUND AND PIPE.
- 1.6 MAIN BUILDING EXTERIOR JOINTS:
 1. SNY BRACING:
 - a. SYSTEM PIPING TO RESIST BEHN LATERAL AND LONGITUDINAL WORKLOADS.
 - b. SNY BRACES ARE TO BE SECURED TO WITHSTANDING FORCES IN TENSION AND COMPRESSION.
 2. ASSIGNED LOAD VALUES FOR BEHN LATERAL AND LONGITUDINAL SNY BRACING SHALL BE DETERMINED USING TABLE IN NFPA-13/2017 ON A HORIZONTAL FORCE OF $F_p = 0.3S_{DS}$.
- 1.7 LONGITUDINAL SNY BRACING:
 1. 50 FEET MAXIMUM CENTER TO CENTER CROSS WIND.
 2. LATERAL SNY BRACING:
 - a. WHERE FIRESTOP COMPANIES ARE INSTALLED ON MAIN BRACE SHALL BE WITHIN 24 INCHES OF EVERY OTHER COUPLING BUT NOT MORE THAN 40 FEET ON CENTER.
 - b. WHEN "C" CLAMPS ARE USED, LISTED RETAINING STRAPS ARE REQUIRED.



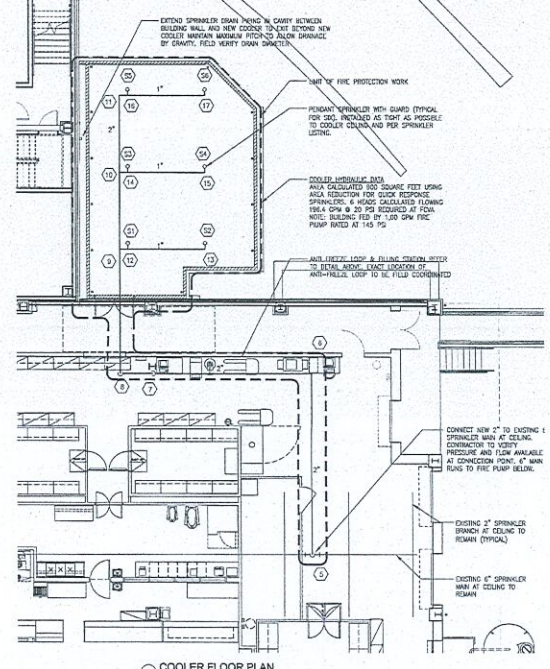
ANTIFREEZE SOLUTION
NOTE: APPROX. 15% GLYCOL LOAD
SCALE: 1/4" = 1'-0"

1. SPRINKLER CONTRACTOR SHALL PROVIDE PROTECTED ANTIFREEZE SOLUTION WRITED BY THE MANUFACTURER TO ENSURE THAT THE CORRECT SOLUTION IS USED PER NFPA-13-AREA, (2017).
2. PROVIDE A DRAIN/TEST CONNECTION AT THE MOST VULNERABLE TEST PORTION OF THE SYSTEM.
3. FILL SYSTEM PER NFPA GUIDELINES AND RECOMMENDING TEST PIPING TO ENSURE SYSTEM IS COMPLETELY FILLED.
4. CHECK VALVE NOT REQUIRED WHEN SPRINKLER PIPING IN UNVISED SIDE IS INSTALLED BELOW WORK AREA.

SPRINKLER SYSTEMS DESIGN CRITERIA



ITEM	ABBREVIATION	DESCRIPTION
(Symbol)	EXT. (O)	FIRE PROTECTION WATER SUPPLY DIST.
(Symbol)	(Symbol)	FIRE PROTECTION WATER SUPPLY
(Symbol)	OS&Y	OUTSIDE SCREW AND YOGE VALVE
(Symbol)	TS	TRAP
(Symbol)	(Symbol)	FLUSH-IN DIRECTION OF ARROW
(Symbol)	(Symbol)	FLOOR CONTROL VALVE
(Symbol)	(Symbol)	CHECK VALVE
(Symbol)	(Symbol)	BALL VALVE
(Symbol)	(Symbol)	GATE VALVE
(Symbol)	(Symbol)	UNION
(Symbol)	(Symbol)	RISE UP (ELBOW)
(Symbol)	(Symbol)	REST. DOWN (ELBOW)
(Symbol)	(Symbol)	REDUCER OR DROP
(Symbol)	(Symbol)	BRANCH-BOTTOM CONNECTION
(Symbol)	(Symbol)	PIPE FLUG CONNECTION
(Symbol)	(Symbol)	PENDANT SPRINKLER HEAD
(Symbol)	(Symbol)	UPRIGHT SPRINKLER HEAD
(Symbol)	(Symbol)	CEILING SPRINKLER HEAD
(Symbol)	(Symbol)	FLOOR SWITCH
(Symbol)	(Symbol)	FIRE HOSE
(Symbol)	FDC	FIRE DEPARTMENT CONNECTION
(Symbol)	(Symbol)	FIRE PUMP
(Symbol)	(Symbol)	FIRE HEADER
(Symbol)	T&P	TEMPERATURE & PRESSURE
(Symbol)	EC	ELECTRICAL CONNECTION
(Symbol)	SC	SPRINKLER CONNECTION
(Symbol)	GC	GENERAL CONNECTION
(Symbol)	USTAND.	UPRIST SYSTEM STANDARDS ABOVE FINISH FLOOR
(Symbol)	ALT	CONNECT NEW TO EXISTING
(Symbol)	CTE	



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

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**WHOLE FOODS MARKET
EXTERIOR COOLER**

Ink Block
Boston, MA

Number	Description	Date
01	ISSUED FOR PERMIT	11/28/2019
02	REVISED PERMITS	12/22/2019

Key Plan: (Symbol)

CAD File: L1026017
Project No.: 1026017
Contract: 2019 Jacobs Engineering Group, Inc.

Drawing Sheet Title:
**FIRE PROTECTION
FLOOR PLAN
NOTES & DETAIL**

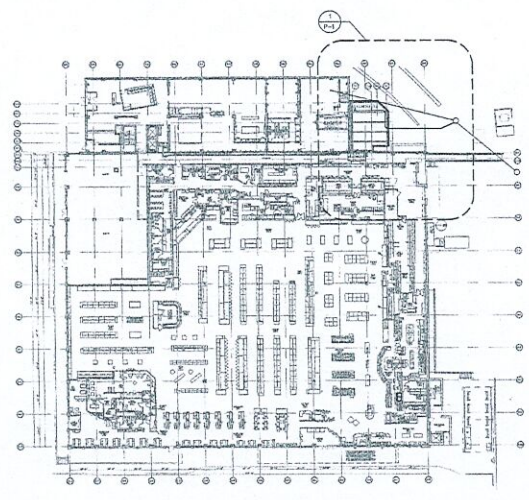
Drawing Sheet Number:
FP-100

Owner's Drawing Sheet No.: (Symbol)

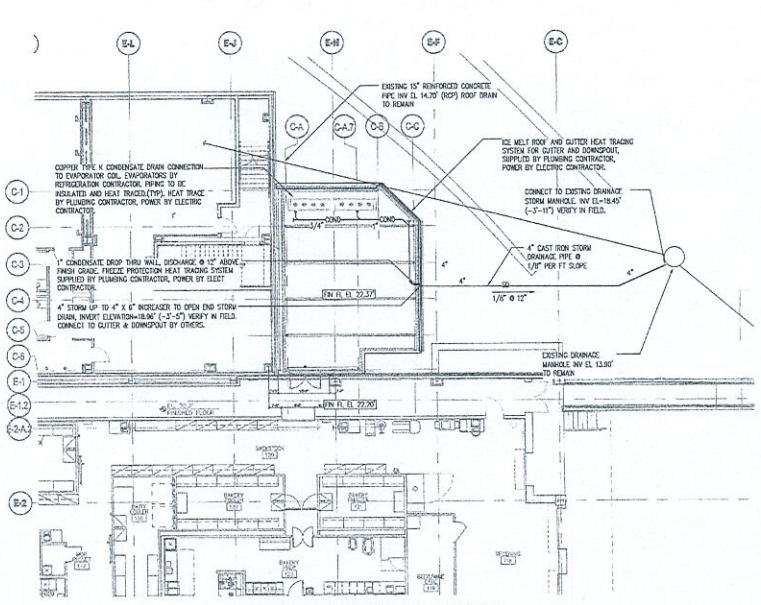
Contract No.

Date

Contract Title



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



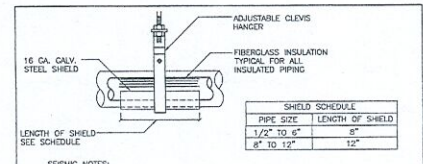
1 COOLER BOX PLUMBING PLAN
 SCALE 1/8" = 1'-0"

- PLUMBING NOTES:**
1. THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF THE PREVALUING STATE PLUMBING AND BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE, OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
 2. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
 3. CHECK INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL OUTSIDE UTILITIES BEFORE INSTALLING ANY UNDERGROUND STORM & SANITARY LINES.
 4. NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT A WRITTEN PERMISSION OF PLUMBING ENGINEER.
 5. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
 6. REQUIRED DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH FIELD SUPERVISOR.
 7. PLUMBING JOB TERMINATES 10'-0" FROM THE BUILDING UNLESS OTHERWISE NOTED. LANDLORD SHALL COORDINATE CONTINUATION ON SITE WITH ELECTRICAL DRAWINGS.
 8. WALL PENETRANT LOCATIONS ARE TO BE COORDINATED IN FIELD WITH OWNER AND ARCHITECT.
 9. INSTALL BALL VALVES ON ALL BRANCH SUPPLY LINES.
 10. INSTALL SLEEVES AT LEAST 2 PIPE SIZES LARGER FOR ALL PIPES PASSING THRU MASONRY WALLS. SLEAVE ALL EXTERIOR SLEEVES WATER TIGHT.
 11. ALL ACCESS PANELS SHALL BE BY PLUMBING CONTRACTOR.
 12. INSTALL ALL FLOOR CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.
 13. ALL WORK SHALL BE PROPERLY TESTED, BALANCED AND CLEANED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION ON ALL PARTS AND LABOR.
 14. ALL SANITARY AND STORM DRAIN PIPING SHALL BE INSTALLED WITH A PITCH OF 1/8" PER FOOT.

- GENERAL NOTES:**
1. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE EDITIONS OF ANY INTERNAL AMENDMENTS AT THE TIME OF THE PROPOSAL PURCHASE. ALL PERMITS ASSOCIATED WITH THE WORK, OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
 2. CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS.
 3. REFER TO PLUMBING SPECIFICATIONS AND ELSEWHERE IN DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS FOR PLUMBING CONTRACTOR.
 4. CONTRACTOR AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS, INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS, ETC. AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM. SUBMIT SHOP DRAWINGS FOR THE INSTALLATION.
 5. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
 6. PLUMBING CONTRACTOR SHALL VERIFY ALL INVERTS, LOCATE FLOOR PENETRATIONS AND UTILITIES, AND COORDINATE CONDITIONS PRIOR TO THE INSTALLATION OF THE WORK. CONTRACTOR SHALL NOTIFY ENGINEER IF INSTALLATION OF WORK CAN NOT BE MET.
 7. PLUMBING CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO ALL EQUIPMENT REQUIRING PLUMBING CONNECTIONS. SUBMIT SHOP DRAWINGS FOR THE INSTALLATION.
 8. ALL ITEMS TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER. DISPOSE OF ANY UNWANTED MATERIALS AS DIRECTED BY THE OWNERS.
 9. AT THE END OF EACH DAY, BROOM SWEEP ALL WORK AREAS AND REMOVE ALL EQUIPMENT AND DEBRIS.

- PIPING NOTES:**
1. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITIES CO. AND/OR ONE ENGINEER. SERVICES TO INCLUDE BUT NOT LIMITED TO DOMESTIC WATER, FIRE, SANITARY SEWER, STORM SEWER, GAS, ETC.
 2. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISERS, OFFSETS, AND OFFSETS, AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
 3. SUSPEND ALL HORIZONTAL SERVICE PIPING SHOWN ON THIS PROJECT SUCH AS, BUT NOT LIMITED TO, WATER, SANITARY, WASTE-WATER, STORM WATER, GAS, ETC. FROM EXISTING STRUCTURAL MEMBERS, UNLESS OTHERWISE NOTED OR INDICATED. NO ATTACHMENT TO THE ROOF DECK IS PERMITTED. HOLD EACH PIPING AS HIGH AS POSSIBLE (EXTEND PIPING IN WALLS, PARTITIONS, CHASES, ETC. TO SEWER). EXISTURES AND EQUIPMENT AS SHOWN ON PLANS.
 4. PROVIDE RISERS AND HANGERS AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT: TRAPS, STRAINERS, CHECKS, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, PIPING AND CONNECT PLUMBING PIPE FROM ROUGH-IN TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
 5. ALL PIPING TO BE CONCEALED UNLESS OTHERWISE NOTED. PROVIDE AND INSTALL SEISMIC CHECK, SHUT-OFF VALVES, CHECKS STOPS, AIR CUSHIONS, VACUUM BREAKERS, AS REQUIRED BY CODE, SPECIFICATIONS AND DRAWINGS FOR ALL EQUIPMENT & FIXTURES.
 6. ALL PIPING CONTRACTORS THROUGH SLAB SHALL BE SLEAVED. ALL PIPE PENETRATIONS THROUGH ROOF MUST BE BY LANDLORD'S ROOFER AT TENANT'S EXPENSE.
 7. CONTRACTOR SHALL PROVIDE IN FINE STOPPING MATERIAL AT ALL CORE DRILLED LOCATIONS.
 8. PERFORM ALL CUTTING & PATCHING REQUIRED FOR INSTALLATION OF THE WORK, INCLUDING CUTTING & PATCHING OF DRAINS.
 10. CAP ALL OPENINGS THAT CANNOT BE REUSED.

- PLUMBING SPECIFICATIONS:**
1. PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED BY CODE AND TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONNECTED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NON-FERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.
 2. STORM PIPING: PROVIDE ALL DRAINS AND SEWERS WITHIN THE PROJECT SPACE WITH CONNECTION TO THE EXISTING DRAINAGE SYSTEM ON-SITE. STORM DRAINAGE PIPING BELOW GRADE SHALL BE SERVICE-WEIGHT HUB AND SPIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM. ALL DRAINAGE PIPING SHALL BE UNIFORMLY FITTED, 1/4" PER FOOT FOR PIPE SIZE 3" AND SMALLER, 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS. ALL FLOOR PENETRATIONS MUST BE SLEAVED AND SEALED LIQUID TIGHT. CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS.
 3. PIPE INSULATION ABOVE GRADE: RIGID ONE-PIECE FIBERGLASS PIPE INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 547, SELF-SEALING ADHESIVE LAP, LONGITUDINAL JOINTS AND BUTT STRIPS FOR TRANSVERSE JOINTS. JACKETING SHALL CONFORM TO ASTM C 1133, TYPE 1, MAXIMUM VAPOR TRANSMISSION RATING OF 0.02 PERM WHEN TESTED ACCORDING TO ASTM E 98, PROCEDURE A, (K VALUE) 0.25 BTU * IN. / HR. * FT² * FT * °F AT 70°F MEAN TEMPERATURE. PROVIDE INSULATION THICKNESS AS INDICATED. CONDENSATE PIPING: 1" THICKNESS.
 4. TEST STORM DRAINAGE SYSTEM BY FILLING WITH WATER, WITH ALL POINTS IN THE SYSTEM BEING SUBJECT TO PRESSURE OF AT LEAST 10' OF WATER. WATER LEVEL SHALL REMAIN STATIONARY FOR A PERIOD OF ONE HOUR, WITHOUT ANY PIPE OR JOINT LEAKAGE. IF TESTING INDICATES DEFICIENCIES REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.



- SEISMIC NOTES:**
1. SEISMIC BRACING SHALL BE INSTALLED UNDER THE FOLLOWING CONDITIONS:
 - 1.1. GAS PIPING 1" DIAMETER AND GREATER.
 - 1.2. ALL PIPING 2-1/2" DIAMETER AND GREATER.
 - 1.3. EXCEPTION: ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE POINT OF ATTACHMENT OF THE HANGER TO THE STRUCTURE IS NOT REQUIRED TO BE SEISMIC BRACED.
 2. THE SIZE, TYPE, SPACING, AND METHOD OF INSTALLATION OF SEISMIC BRACING SHALL BE IN ACCORDANCE WITH THE LATEST "SMAGMA" SEISMIC RESTRAINT MANUAL - GUIDELINES FOR MECHANICAL SYSTEMS. GAS PIPING IS TO BE CLASSIFIED UNDER "SEISMIC HAZARD LEVEL A" AND ALL OTHER PIPING SYSTEMS "SEISMIC HAZARD LEVEL C" IN THE SWAGAN MANUAL.

DETAIL-PIPE HANGER
 NO SCALE

GUTTER HEAT TRACE SYSTEM COMPONENTS (SUPPLIED BY PLB. CONTR.)

TAG	TYPE	LOCATION	MANUFACTURER	MODEL NO.	REMARKS
GHT-1	GUTTER HEAT TRACE	ROOF	RAYCHEM	CM2X	SELF-REGULATING ROOF AND GUTTER DE-ICING HEATING CABLE, 208V - 277V
				APS-4C	AUTOMATIC SHUT-OFF MELTING SYSTEM CONTROL PANEL 277V / 480VAC, 50/60 HZ, THREE PHASE
				GHT-1	GUTTER HEAT SENSOR
				FTC-1	POWER CONNECTION KIT WITH END SEAL
				960-GSH	DOWNSPOUT HANGER
				DSH-50	CABLE SPACER

PIPE HEAT TRACE SYSTEM COMPONENTS (SUPPLIED BY PLB. CONTR.)

TAG	TYPE	LOCATION	MANUFACTURER	MODEL NO.	REMARKS
PHT-1	PIPE HEAT TRACE	VARIES	RAYCHEM	SML2-CR	XL-TRACE SELF-REGULATING HEATING CABLE, COVERED RUBBER, 208V - 277V
				RAYCAL	CONNECTION KITS AND ACCESSORIES, COVERED 3/8" P.C.P.S., 1/4", 1/2", 3/4", 1" AS REQUIRED
				ACCESSORIES	CUTTER CLASS TAPE, 1/2"-10" x 1/2"-30" PIPE STRIPS, ETC. SELECTING TRACED LABEL, AS REQUIRED
				RTD4AL	RESISTANCE TEMPERATURE DETECTOR
				RM2M2	HEAT TRACING REMOTE MONITORING MODULE
				ACS-1UT-2	HEMILOC USER INTERFACE/ORIGINAL FOR RAYCHEM ACS-30 SYSTEMS
				ACS-PCM2-5	POWER CONTROL MODULE FOR USE WITH RAYCHEM ACS-1UT-2
				ACS-30	ADVANCED HEAT TRACING CONTROL SYSTEM

- PLUMBING LEGEND**
- SD— STORM
 - COND— CONDENSATE
 - V— VENT (V)
 - S— SANITARY
 - BAF BACK FLOW PREVENTER
 - FCO FLOOR CLEANOUT
 - DCO DISHWASHER
 - INV. EL. INVERT ELEVATION
 - ☉ CONNECT TO EXISTING

CONTRACTOR NOTES:

PRIOR TO COMMENCEMENT OF WORK OR FABRICATION OF COMPONENTS, CONTRACTOR SHALL INVESTIGATE AND VERIFY IN THE FIELD ALL CONDITIONS, DIMENSIONS, AND ELEVATIONS OF THE EXISTING CONSTRUCTION. ALL DISCREPANCIES BETWEEN FIELD-CRIFIED CONDITIONS, DIMENSIONS AND ELEVATIONS AND THOSE INDICATED ON THE DRAWINGS SHALL BE IMMEDIATELY MADE KNOWN TO THE ARCHITECT IN WRITING. THE USE OF (V) OR (+/-) OR OTHER SIMILAR NOTES AT CERTAIN LOCATIONS ON THE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR VERIFYING ALL CONDITIONS AS DESCRIBED ABOVE.

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WHOLE FOODS MARKET
 EXTERIOR COOLER

Ink Block
 Boston, MA

Number	Description	Date
1	ISSUED FOR PERMIT	1/28/2020
2	ISSUED FOR PERMIT	1/28/2020
3	ISSUED FOR PERMIT	1/28/2020
4	ISSUED FOR PERMIT	1/28/2020
5	ISSUED FOR PERMIT	1/28/2020
6	ISSUED FOR PERMIT	1/28/2020
7	ISSUED FOR PERMIT	1/28/2020
8	ISSUED FOR PERMIT	1/28/2020
9	ISSUED FOR PERMIT	1/28/2020
10	ISSUED FOR PERMIT	1/28/2020

Job File
 Project Title
 Project No. 100007
 Contract No. 0100-0000-Engineering/Drawn, Inc.

Contractor Title
COOLER BOX PLUMBING PLAN

Design Sheet Number
P-1
 Owner's Design Sheet Title

