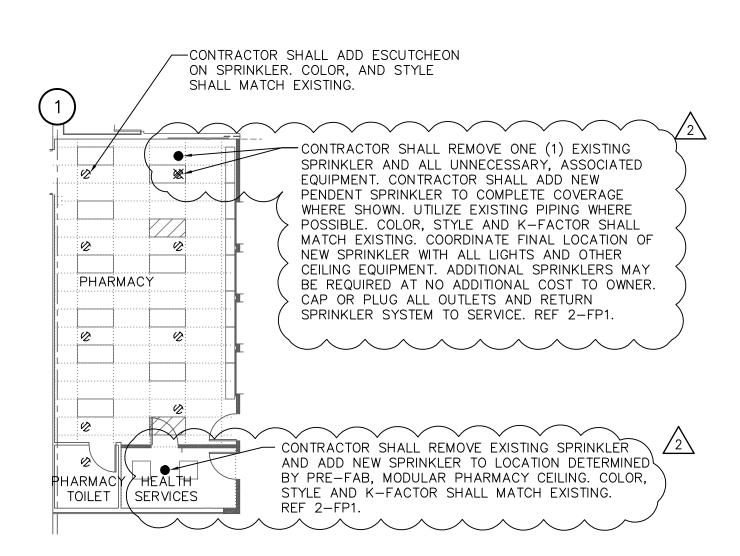


-CONTRACTOR SHALL REMOVE ONE (1) EXISTING SPRINKLER AND ALL UNNECESSARY ASSOCIATED EQUIPMENT. CONTRACTOR SHALL ADD NEW PENDENT SPRINKLERS WHERE SHOWN. UTILIZE EXISTING PIPING WHERE POSSIBLE. COLOR, STYLE AND K-FACTOR SHALL MATCH EXISTING. COORDINATE FINAL LOCATIONS OF NEW SPRINKLERS WITH ALL LIGHTS AND OTHER CEILING EQUIPMENT. ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER. REF 2-FP1. (TYP OF 3)

SITE TO STORE 7) FIRE PROTECTION PLAN $3/32^{\circ} = 1'-0^{\circ}$

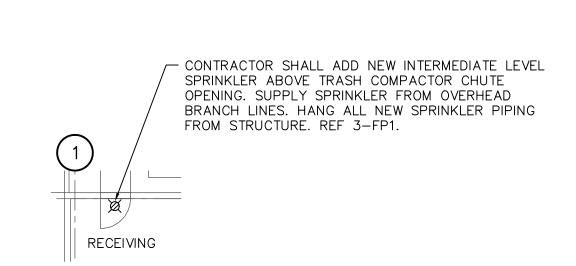


PHARMACY 6) FIRE PROTECTION PLAN 3/32" = 1'-0"

RECEIVING

5) FIRE PROTECTION PLAN

3/32" = 1'-0"



DAIRY COOLER FIRE PROTECTION PLAN

COOLER

EXISTING PROTECTION CRITERIA

DENSITY

0.20/1500 SQ FT

MINIMUM 0.20/1500 SQ FT

OR ENTIŘE AREA

FIRE SPRINKLER SYMBOL LEGEND

1/2"

1/2"

1/2"

REFER

AHU

EVAP EVAPORATOR

BOR BASE OF RISER

GRV GROOVED

AIR HANDLING UNIT

REDUCING COUPLING

ROOF TOP UNIT

FLG FLANGE OR FLANGED

図 1/2" --- -- WHITE RECESSED STYLE 10

OCCUPANCY

SALES FLOOR (MISCELLANEOUS STORAGE)

COOLERS/FREEZERS (MISCELLANEOUS STORAGE)

TOTAL NEW SPRINKLERS REQUIRED

EXISTING BRANCH LINE

NEW SPRINKLER MAIN

EXISTING SPRINKLER RISER

O—+ NEW INSPECTOR'S TEST/AUXILIARY

NEW OUTLET WITH ARM-OVER

LONGITUDINAL SEISMIC BRACING

CONTRACTOR SHALL VERIFY ALL SPRINKLER K-FACTORS,

MAKES, MODELS, AND FINISHES. ALL NEW SPRINKLERS

ADDED SHALL MATCH EXISTING SPRINKLERS OF THE

NEW PIPE "UP" OR "DN"

LATERAL SEISMIC BRACING

4-WAY SEISMIC BRACING

NEW BRANCH LINE TO BE INSTALLED

EXISTING CAP

NEW CAP

NEW ELL

Ⅲ NEW TEE

─/─I HANGER

SAME TYPE.

EXISTING SPRINKLER MAIN

NEW SPRINKLER BRANCH LINE

HYDRAULIC REFERENCE POINT: REFER TO

DESIGN DRAWINGS FOR EXACT LOCATIONS

SYMBOL DESCRIPTION

CLASSIFICATION

HOSE

ALLOWANCE

(GPM)

250

250

TYCO TY-B TY3251 BRASS PENDENT

YMBOL SIZE MFR MAKE S.I.N. FINISH STYLE TEMP K-FACTOR

YMBOL| SIZE | MFR | MAKE | S.I.N. | FINISH | STYLE | TEMP |K-FACTOR |

CONTRACTOR MAY SUBSTITUTE SPRINKLERS OF SAME SIZE, K-FACTOR AND

ROOM. PROVIDE ADDITIONAL SPRINKLERS IN SPRINKLER CABINETS AS REQUIRED.

--- | WHITE |

TEMPERATURE CLASSIFICATION UNLESS PROHIBITED BY THE CONTRACT DRAWINGS AND

VERIFY (12) SALES FLOOR TYPE SPRINKLERS, (4) DRY PENDENT SPRINKLERS, AND (2) OF

EACH OTHER TYPES OF SPRINKLERS ARE PRESENT IN SPRINKLER CABINETS IN SPRINKLER

ABBREVIATIONS

CMU

GPM

PSI

MIN

MAX

MECH

1/2" TYCO TY-FRB TY3231 WHITE STYLE 15

MAXIMUM SPRINKLER

SPACING

(SQ FT)

130

130

PENDENT

--- CHROME CONCEAL 200

PENDENT

| 401 ESC |

PENDENT

|RECESSED| 155

155

155

ELBOW

MINIMUM

MAXIMUM

CONT'D CONTINUED

MECHANICAL

HORSE POWER

200

5.6

5.6

5.6

5.6

5.6

5.6

5.6

5.6

CONCRETE MASONRY UNITS

POUNDS PER SQUARE INCH

GALLONS PER MINUTE

CONTRACTOR-PROVIDED FIRE SPRINKLERS

YMBOL SIZE MFR MAKE S.I.N. FINISH STYLE TEMP K-FACTOR (ENTIRE BUILDIN

✓EXISTING FIRE SPRINKLERS TO REMAIN (UNLESS NOTED OTHERWISE) CONTRACTOR SHALL

--- WHITE KECESSED

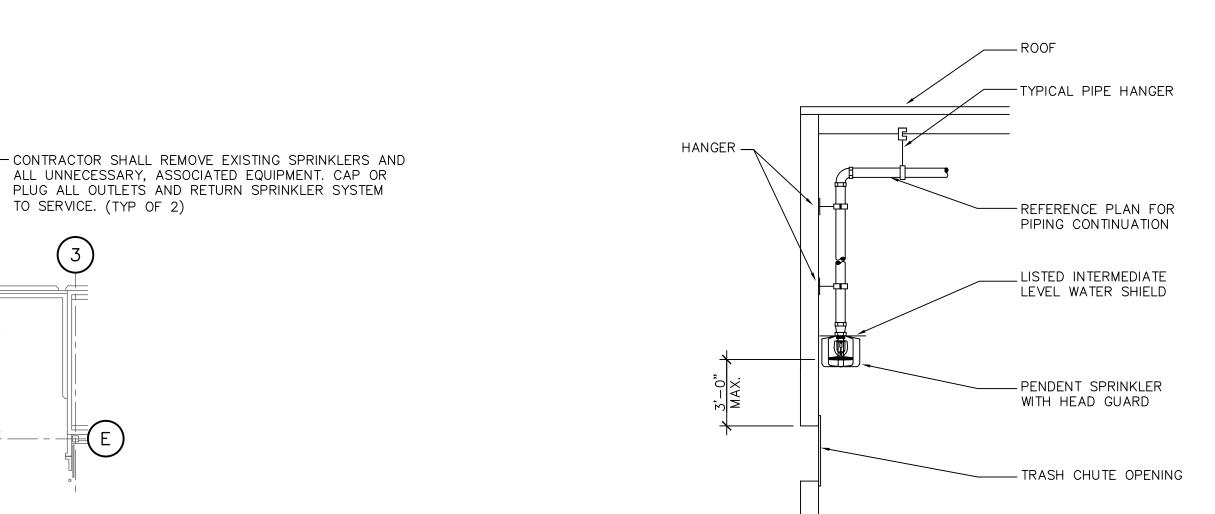
EXISTING FIRE SPRINKLERS TO BE DEMOLISHED, CONTRACTOR SHALL FIELD VERIFY

--- CHROME CONCEAL 200

DESIGN BASIS

EXISTING DESIGN DENSIT'

EXISTING DESIGN DENSIT



CONTACT **INFORMATION**

DOCUMENTS INCLUDE JURISDICTIONAL REQUIREMENTS PROVIDED BY THE FOLLOWING CONTACTS:

FIRE SPRINKLER REVIEWING AUTHORITY: CHIP PAIBOON, FIRE MARSHAL (817) 392-6848

SCOPE OF WORK

ALL EXISTING OVERHEAD SYSTEMS SHALL

REMAIN IN PLACE UNLESS OTHERWISE NOTED. USE EACH EXISTING OUTLET FOR ONE NEW ARMOVER TO NEW SPRINKLER LOCATION UNLESS HYDRAULICALLY CALCULATED. CONTRACTOR SHALL INSTALL A 1" MECHANICAL TEE IF ANY ADDITIONAL OUTLETS ARE REQUIRED. AFTER DEMOLITION IS COMPLETE, THE NEW SPRINKLER SYSTEM SHALL MEET ALL REQUIREMENTS OF THE AHJ ADOPTED EDITION OF NFPA 13.

SPRINKLER CONTRACTOR SHALL FIELD VERIFY EXTENT OF REMODEL WORK.

EXISTING SPRINKLER SYSTEM SHALL BE MAINTAINED. SPRINKLER CONTRACTOR SHALL RE-SPACE AND/OR INSTALL NEW SPRINKLERS SO AS TO ADHÉRE TO THE AHJ ADOPTED EDITION OF NFPA 13.

INTERIOR REMODEL AREA: SPRINKLER CONTRACTOR SHALL PROVIDE NEW SPRINKLERS AS NECESSARY DUE TO ACCIDENTAL PAINTING OF OR DAMAGE TO ANY EXISTING SPRINKLERS ETC. SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES.

THE SPRINKLER HEAD LAYOUT ON THESE DRAWINGS IS CONCEPTUAL. SPRINKLER CONTRACTOR SHALL COORDINATE ALL SPRINKLER LOCATIONS WITH ELECTRICAL AND MECHANICAL EQUIPMENT. SPRINKLER CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER PROTECTION TO MEET ALL SPACING AND OBSTRUCTION GUIDELINES AS OUTLINED IN

SPRINKLER CONTACTOR SHALL ADD ADDITIONAL BRANCH LINES AS REQUIRED.

NFPA STANDARDS

REFER TO SHEET C1 FOR APPLICABLE BUILDING CODES

GENERAL NOTES AND DEMOLITION NOTES

THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS IS TO PROVIDE GUIDANCE FOR BIDDING AND TO OBTAIN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION. SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED BY CONTRACT DOCUMENTS TO THE OWNERS DESIGNATED REVIEWER. BASE DESIGN UPON THESE DRAWINGS AND AS REQUIRED BY THE SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS,

ALTERNATES MUST BE APPROVED IN WRITING

COORDINATE LOCATIONS OF FIRE PROTECTION

COMPONENTS, INCLUDING SPRINKLERS, PIPING,

HANGER ASSEMBLIES, ALARMS, DRAINS, TEST

STRUCTURAL, MECHANICAL, AND ELECTRICAL

COMPONENTS. OBSTRUCTIONS TO SPRINKLER

DISCHARGE MUST BE CONSIDERED DURING

INSTALLATION: ADDITIONAL SPRINKLERS OR

DIFFERENT PIPE ROUTING MAY BE REQUIRED

AT NO ADDITIONAL COST TO OWNER. REFER

THE SPRINKLER CONTRACTOR MUST VISIT THE

EXTENT OF THE EXISTING FIRE PROTECTION

TOTALLY FAMILIAR WITH THE DISCONNECTIONS,

WORK AND EXISTING CONDITIONS, BECOME

PROTECTION EQUIPMENT REQUIRED, AND

CONDITIONS IN THE PROPOSAL FOR THIS

PAID FOR LACK OF SUCH DETERMINATION,

SUBMIT A REQUEST FOR INFORMATION FOR

NEUTRALIZATION WALLS, IF PROVIDED, ARE

PROTECTION DOCUMENTS TO THE ARCHITECT

FAMILIARIZATION, AND/OR ALLOWANCE.

ANY QUESTIONS REGARDING THE FIRE

AND ENGINEER OF RECORD.

BUILDING SITE TO DETERMINE THE FULL

VIA THE RFI PROCESS BY THE FIRE

PROTECTION ENGINEER OF RECORD

POINTS, ETC. WITH ARCHITECTURAL,

SHOP DRAWING PRODUCTION AND

TO SPECIFICATIONS FOR ADDITIONAL

REMOVALS, RELOCATIONS AND/OR

RECONNECTIONS OF EXISTING FIRE

REQUIREMENTS.

DOCUMENTS PRIOR TO BID.

PERFORM ALL WORK ACCORDING TO THE PROJECT PHASING SCHEDULE INFORMATION FOR THIS PROJECT. PROVIDE ALL NECESSARY FIRE HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATIONS METHODS, PROTECTION WORK, TEMPORARY AND/OR MATERIAL DATA SUBMITTALS, AND ADDITIONAL OTHERWISE, AND USE WHATEVER MEANS INFORMATION NECESSARY TO CLARIFY THE NECESSARY, TO CONFORM TO THE REQUIRED INTENT OF INSTALLATION. CONTRACTOR SHALL CONSTRUCTION PHASING OF THE PROJECT. PROVIDE PIPE SIZE, SPRINKLER SPACING, AND SYSTEM CONFIGURATION AS SHOWN.

CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION.

GENERAL PIPING

UNLESS NOTED OTHERWISE, DISCONNECT AND

COMPONENTS NOT INTENDED TO BE REUSED.

DEBRIS TO AN APPROVED DUMPING SITE AND

CLEAN ALL FIRE PROTECTION WORK PRIOR TO

REMOVE ALL EXISTING FIRE PROTECTION

REMOVE ALL DEMOLITION MATERIALS AND

PROJECT COMPLETION.

CONTRACTOR SHALL PATCH ALL HOLES TO MATCH ADJACENT SURFACES LEFT UNUSED AFTER EXISTING SPRINKLER PIPING OR EQUIPMENT IS REMOVED AND VACATED FROM

THESE HOLES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING FIRE DEPARTMENT ACCESS

ROADS THROUGHOUT THE PROJECT. SPRINKLER SYSTEMS NOT ASSOCIATED WITH

THE DEMOLITION SHALL BE LEFT IN SERVICE.

ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY THE LANDLORD, THE LESSOR AND THE ADJACENT TENANTS A '· MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH THIS WORK. ALL WORK

SHALL BE SCHEDULED IN ADVANCE. ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF WORK FOR THIS). PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING

MODIFIED AS A PART OF THIS PROJECT. SPRINKLER CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL OF ALL FIRE SPRINKLER SHOP DRAWINGS, HYDRAULIC CALCULATION AND MATERIAL DATA SUBMITTALS BY CYNTERGY PRIOR TO ANY FABRICATION OR INSTALLATION

APPLICABLE CODES

SHOWN ON THE ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR NEUTRALIZATION WALL PENETRATION DETAIL. PENETRATIONS OF "RATED ASSEMBLIES" SHALL BE FIRE STOPPED WITH AN APPROVED

> MATERIAL PER METHODS REQUIRED ALLOWED BY THE FIRE PROTECTION ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION. THE FIRE PROTECTION ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE THE CONTRACT DOCUMENTS, NOR SHALL

CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THEY BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK, THE CONSTRUCTION PROCEDURES FOLLOWED BY THE CONTRACTOR, SUBCONTRACTORS, THEIR RESPECTIVE EMPLOYEES OR ANY OTHER PERSON AT THE JOB SITE OTHER THAN THAT OF THE ENGINEERING FIRM'S EMPLOYEES. 8. THE SPRINKLER CONTRACTOR MUST REVIEW

ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATIONS TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH ALL OTHER TRADES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF CHANGES FROM BOTH THE AUTHORITY HAVING JURISDICTION AND THE FIRE PROTECTION ENGINEER OF RECORD IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE SPRINKLER CONTRACTOR MUST MAKE NOTE OF ANY FIELD OR COORDINATION CHANGES ON THE INSTALLATION DRAWINGS, AND THEN MUST PROVIDE A SET OF "RED-LINED" AS-BUILT DRAWINGS TO THE FIRE PROTECTION ENGINEER OF RECORD ONCE

COMPLETE. 9. THE SPRINKLER CONTRACTOR MUST VERIFY ALL DROP DOWN LOCATIONS AT EXTERIOR WALLS WITH THE GENERAL CONTRACTOR AND/OR THE WALMART CONSTRUCTION

MANAGER PRIOR TO INSTALLATION. O. ALL PIPING MUST BE COORDINATED AROUND FRAMING MEMBERS AND PROPERLY INSTALLED ABOVE THE BOTTOM CHORD OF THE BAR

 ALL NEW SPRINKLER PIPING ADDED TO ANY PORTION OF THE EXISTING SPRINKLER SYSTEMS THAT IS VISIBLE TO THE PUBLIC MUST BE PAINTED THE SAME COLOR AS THE ADJACENT PIPING IN THAT AREA.

GENERAL NOTES CONT.

- 12. THE SPRINKLER CONTRACTOR SHALL ROUTE PIPING AROUND ALL OBSTRUCTIONS AND PROVIDE SPRINKLER PROTECTION UNDER OBSTRUCTIONS, AS DETAILED IN THE AHJ APPROVED EDITION OF NFPA 13 AS PART O THE FIELD COORDINATION AT NO ADDITIONAL COST TO OWNER. REFER TO ALL FIRE PROTECTION DETAILS AND CONSTRUCTION DOCUMENTS FOR ALL INFORMATION.
- 13. ALL SPRINKLER DEFLECTOR DISTANCE REQUIREMENTS SHALL BE IN ACCORDANCE AS DETAILED IN THE AHJ APPROVED EDITION OF NFPA 13
- 14. ALL PIPING PASSING THROUGH CMU WALLS SHALL BE INSTALLED WITH ONE INCH CLEARANCE ON ALL SIDES. (CORE DIAMETER STIPULATION FOR REUSE EQUAL TO PIPE +2"). ALL CORES SHALL BE THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT FORT COORDINATED WITH STRUCTURAL REINFORCING. THE SPRINKLER CONTRACTOR IS RESPONSIBLE WORTH, TX CONTEMPORANEOUSLY W FOR PROVIDING ALL CORING WITH PROPER ITS ISSUE DATE ON 02/12/18, AND IS NOT SUITABLE FOR USE ON A
 DIFFERENT PROJECT SITE OR AT A CLEARANCE AT ALL CMU WALLS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOR REFERENCE OR EXAMPLE ON PROVIDING A TWO INCH CLEARANCE AROUND ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ALL PIPING PASSING THROUGH CONCRETE RCHITECTS AND ENGINEERS. SLABS. THE SPRINKLER CONTRACTOR SHALL EPRODUCTION OF THIS DRAWING FO FILL ALL CLEARANCES WITH APPROVED AUTHORIZED AND MAY BE CONTRAR TO THE LAW.

CYNTERGY

CYNTERGY ENGINEERING P

810 S CINCINNATI

SECOND FLOOR

TULSA, OK 74119

www.cyntergy.com

 \vdash

WORT

- 15. PENETRATIONS OF ANY FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH APPROVED MATERIALS PER METHODS DESCRIBED BY THE UL FIRE RESISTANCE
- 6. PROVIDE FLUSHING CONNECTIONS IN ACCORDANCE WITH THE STANDARDS OUTLINED
- PROVIDE ALL NECESSARY OFFSETS, RISE OR DROPS IN PIPING AND AUXILIARY DRAINS AS REQUIRED BY BUILDING CONDITIONS.
- 18. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, PROJECT. NO EXTRA COMPENSATION WILL BE CLEARANCES, ETC.
 - 19. ARCHITECTURAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE CONTRACT DOCUMENTS FOR LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADE
 - 20. ALL SPRINKLER SPACING SHALL ADHERE TO THE CONTRACT DOCUMENTS AS WELL AS THE ADOPTED EDITION OF NFPA 13.
 - INTERFACE SPRINKLER SYSTEM WITH FIRE PROTECTION SUPERVISORY SYSTEM.
 - ALL MATERIALS SHALL BE UL LISTED AND FM APPROVED. SPRINKLER PIPE SHALL BE MANUFACTURED TO STANDARDS RECOGNIZED BY NFPA 13., THREADED PIPE SHALL HAVE A CORROSION RESISTANCE RATING OF 1.0 OR GREATER. CRIMP-TYPE COUPLINGS SHALL NOT BE USED. THREADABLE THINWALL PIPE WITH CORROSION RESISTANCE RATING OF LESS THAN 1.0 SHALL BE USED ONLY WITH ROLL GROOVE FITTINGS.
 - . IF REQUIRED, PROVIDE 24 VOLT AC, ELECTRIC BELL, MODEL NO. PBA248, ELECTRIC BELL B POTTER ELECTRIC SIGNAL OF ST. LOUIS. MISSOURI, LOCATE AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. PROVIDE NEW DOUBLE POLE VANE TYPE FLOW DETECTOR, MODEL NO. VSR-F, BY POTTER ELECTRIC SIGNAL OF ST. LOUIS, MISSOURI. SET ADJUSTABLE DELAYED SIGNAL AT 30 SECONDS. MOUNT WATER FLOW INDICATORS NO HIGHER THAN 6 FEET ABOVE FINISH
 - ALL SPRINKLER SYSTEMS TO BE MODIFIED SHALL BE HYDROSTATICALLY TESTED PER NFPA 13 PRIOR TO SPRINKLER SYSTEM MODIFICATION AND SHALL BE RE-HYDROSTATICALLY TESTED AFTER COMPLETION OF WORK.
 - DO NOT HANG OR SUPPORT ANY LOADS OR MAKE ANY ATTACHMENTS TO THE METAL
 - ROOF DECK OR JOIST BRIDGING. 26. SAMMY SCREWS ARE NOT PERMITTED.
 - 27. CEILING FLANGES ARE NOT PERMITTED. 28. PROVIDE RETAINING STRAPS ON HANGERS WHERE REQUIRED.
 - 29. HANG ALL NEW SPRINKLER BRANCH LINE PIPING IN ACCORDANCE WITH THE ADOPTED EDITION OF NFPA 13.
 - 30. ALL NEW SPRINKLER PIPING, FITTINGS, AND HANGER ASSEMBLIES THAT ARE INSTALLED IN VIEW OF THE PUBLIC SHALL BE REQUIRED TO BE PAINTED, EITHER BY THE SPRINKLER CONTRACTOR OR THE GENERAL CONTRACTOR.

SHEET INDEX

FIRE PROTECTION PLANS AND DETAILS

30 X 42 SHEET S

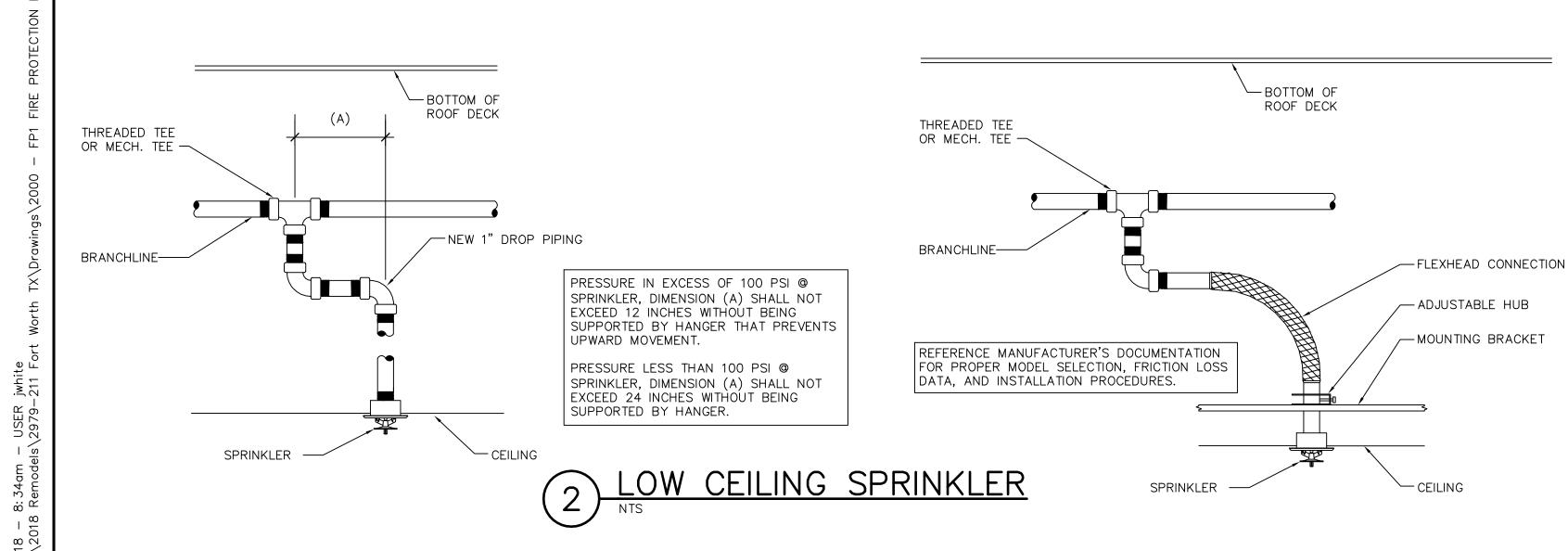
SSUE BLOCK

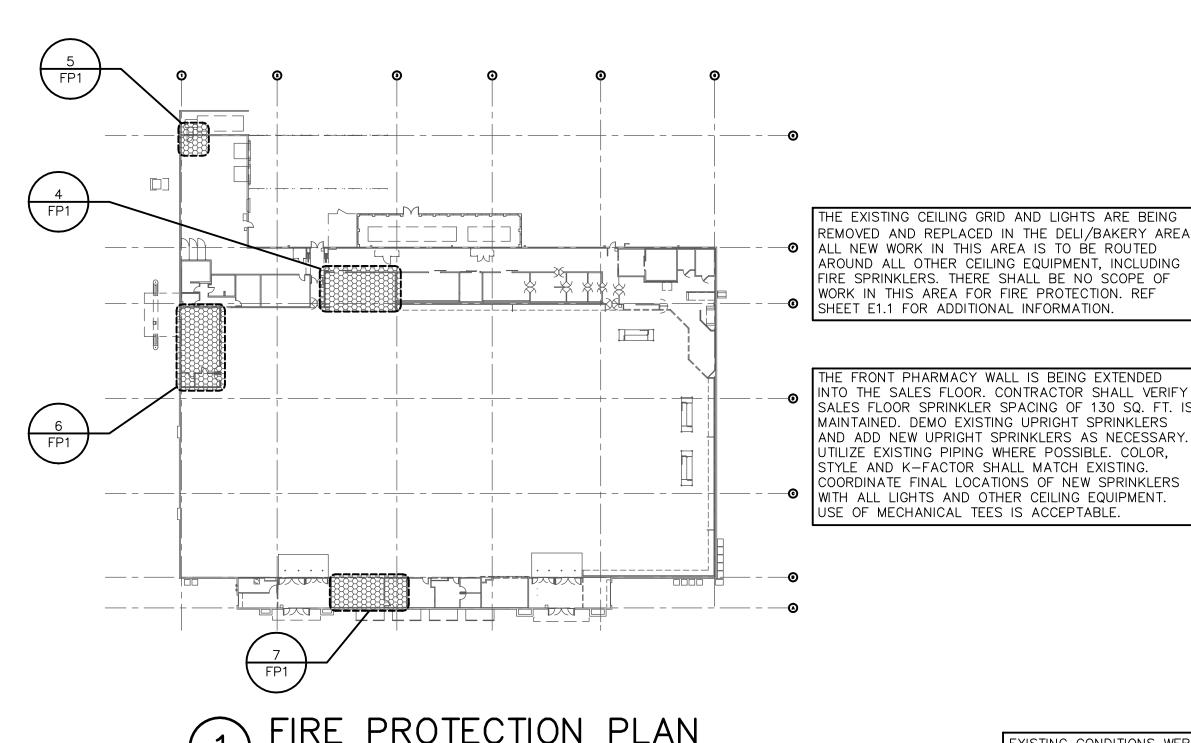
02/12/18 PERMIT/ BII

 $\frac{1}{2}$ 03/02/18 ADD #1

CHECKED BY:	JAW
DRAWN BY:	JPT
PROTO:	52
PROTO CYCLE:	12/29/17
DOCUMENT DATE:	02/12/18
DOCUMENTS WITHOUT	

SIGNATURE AND REQUIRED SEAL OF AOR/EOR ARE NOT FOR CONSTRUCTION





THE FRONT PHARMACY WALL IS BEING EXTENDED INTO THE SALES FLOOR. CONTRACTOR SHALL VERIFY SALES FLOOR SPRINKLER SPACING OF 130 SQ. FT. IS MAINTAINED. DEMO EXISTING UPRIGHT SPRINKLERS AND ADD NEW UPRIGHT SPRINKLERS AS NECESSARY TILIZE EXISTING PIPING WHERE POSSIBLE. COLOR, TYLE AND K-FACTOR SHALL MATCH EXISTING. COORDINATE FINAL LOCATIONS OF NEW SPRINKLERS WITH ALL LIGHTS AND OTHER CEILING EQUIPMENT.

USE OF MECHANICAL TEES IS ACCEPTABLE.

FIRE PROTECTION PLAN

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIEL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITIC WITH ALL OTHER DISCIPLINES AND EXISTING

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILI ON OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE

TO FAILURE TO FAMILIARIZE WORKERS WITH THIS

JAMES ROY SPRADLING ENGINEER OF RECORD CA # F-2220

> PROTECTION **PLANS DETAILS**