07C - FIRE PROTECTION (SIGNS & MARKINGS)
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
FPSM-001	INDEX OF DRAWINGS		
FPSM-002	OVERALL FIRE PROTECTION PLAN		
FPSM-003	OFFICE AREA FIRE PROTECTION PLAN		
FPSM-004	BAY AREA FIRE PROTECTION PLAN		
FPSM-005	FIRE PROTECTION DETAILS		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Adam Fox
2022.03.08
08:23:40-05'00'

TRANSPORTATION PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: EAM CHECKED BY: JAB

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: INDEX OF DRAWINGS

DRAWING NO. FPSM-001
SHEET NO. **07C.01**

LASTED SAVED BY: MittoE **FILE NAME:** C:\Users\MittoE\State of Connecticut\0042-0324 - Design\F_Mech\Signs & Markings\FD_MST_MEC_0042_0324_FPSM001.dgn
PLOTTED DATE: 2/17/2022

FM HAZARD CATEGORY

HC-1

HC-2

HC-3

LEGEND

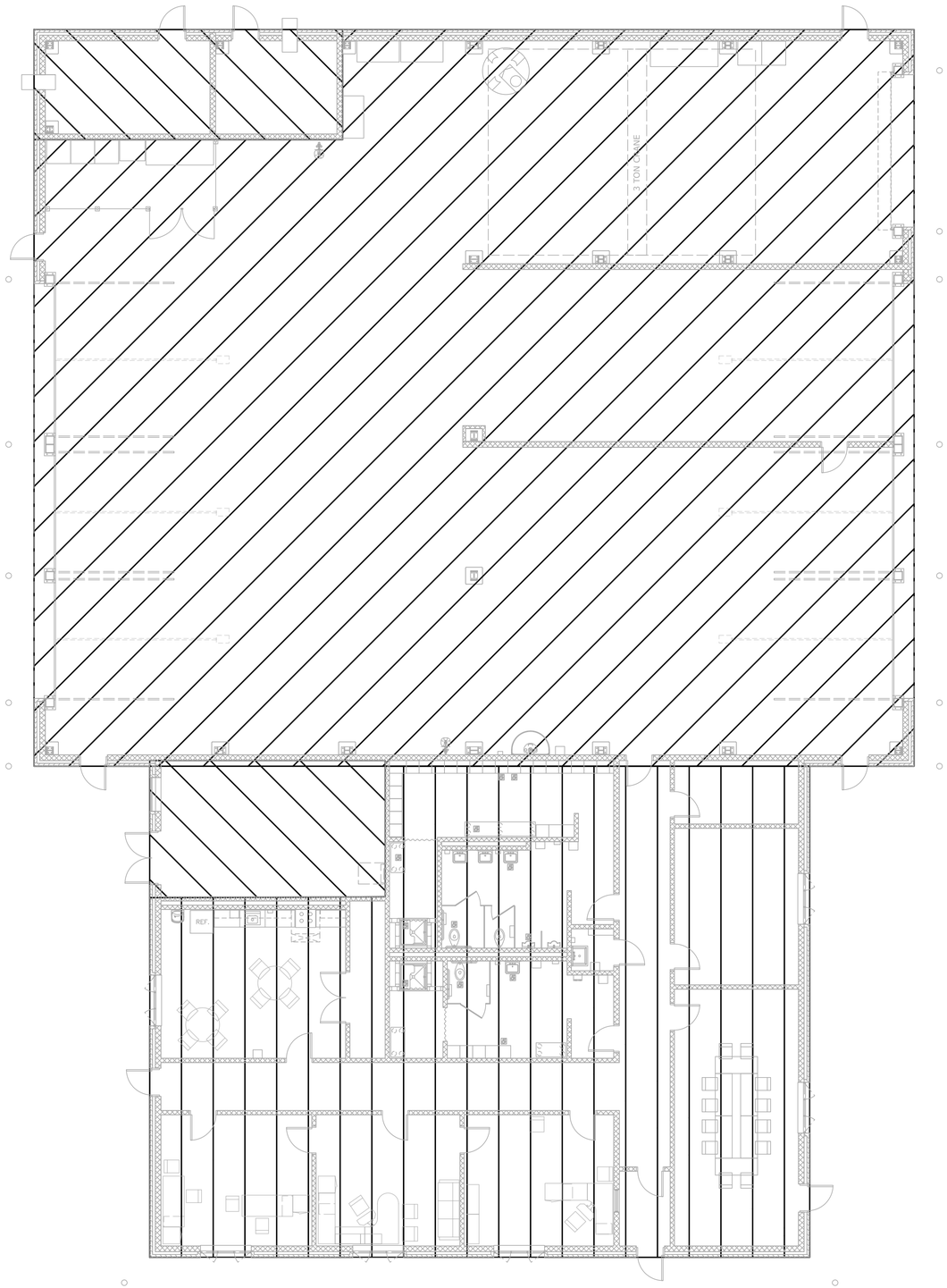
- SIDEWALL SPRINKLER
- UPRIGHT SPRINKLER
- PENDENT SPRINKLER
- FIRE SUPPRESSION PIPING
- FAN, PADDLE
- ROOF VENTILATOR, EXHAUST
- 4-WAY CEILING DIFFUSER
- RETURN GRILLE
- LIGHTS
- (SP) PUBLIC ADDRESS SPEAKER - CEILING MOUNTED
- (SD) SMOKE DETECTOR IONIZATION TYPE.

OCCUPANCY SENSORS

- 500 CEILING MOUNTED ULTRASONIC, 500 SQ FT
- 500 CEILING MOUNTED MULTI-TECHNOLOGY, 500 SQ FT
- 1000 CEILING MOUNTED MULTI-TECHNOLOGY, 1000 SQ FT
- 1000 CEILING MOUNTED ULTRASONIC, 1000 SQ FT

ABBREVIATIONS

BFP	BACKFLOW PREVENTER
dia	DIAMETER
FDC	FIRE DEPARTMENT CONNECTION
SF	SQUARE FOOT
TYP	TYPICAL



GENERAL NOTES:

1. THE INSTALLER SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.FAILURE TO NOTIFY THE ENGINEER WILL NOT RELIEVE THE INSTALLER OF RESPONSIBILITY. THE INSTALLER SHALL CORRECT ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ENGINEER WITHOUT ADDED COST TO THE OWNER.
2. FIRE PROTECTION INSTALLER SHALL COORDINATE WITH ALL NECESSARY INSTALLERS TO PREVENT INSTALLATION CONFLICTS.
3. OPENINGS FOR PENETRATIONS IN SLABS AND WALLS SHALL BE DRILLED TO ACCOMODATE PIPE SLEEVES FOR THE PASSAGE OF PIPES. HOLE TOLERANCES SHALL MEET REQUIREMENTS OF SLEEVE MANUFACTURER. EXACT LOCATIONS SHALL BE FIELD COORDINATED TO CLEAR BEAMS AND REINFORCEMENT BARS.
4. WHERE PIPES PASS THROUGH FINISHED SURFACES OF FLOORS, CEILINGS, ROOFS, AND WALLS, PROVIDE PIPE SLEEVES AND ESCUTCHEON PLATE/FRAMES.
5. WHERE PIPES PASS THROUGH EXPOSED SURFACES, PROVIDE PIPE SLEEVES, SEAL AROUND OPENINGS, AND FINISH THE OPENINGS. FIRE SEAL WHERE PIPES PASS THROUGH FIRE RATED CONSTRUCTION. FIRE SEAL SHALL MATCH THE FIRE RATING OF THE ADJACENT CONSTRUCTION.
6. REFER TO CSI DIVISION 21 SECTION 211313, "WET-PIPE SPRINKLER SYSTEMS" FOR SPRINKER SYSTEM DESIGN CRITERIA.
7. INSTALL SEISMIC BRACING AS REQURIED BY SPECIFICATIONS; SEISMIC BRACING NOT SHOWN.
8. TIE DAMPER AND FLOW SWITCHES INTO FIRE ALARM SYSTEM. REFER TO CSI DIVISION 28 SECTION 283100, "FIRE PROTECTION AND ALARM."

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: EAM CHECKED BY: JAB

NOT TO SCALE

SIGNATURE/ BLOCK:

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DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: OVERALL FIRE PROTECTION PLAN

DRAWING NO. FPSM-002
SHEET NO. **07C.02**

LASTED SAVED BY: MittoE **FILE NAME:** C:\Users\MittoE\State of Connecticut\0042-0324 - Design\F_Mech\Signs & Markings\FD_MST_MEC_0042_0324_FPSM002.dgn
PLOTTED DATE: 2/17/2022

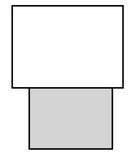
MATCH LINE
SEE PLAN FPSM-004

MATCH LINE
SEE PLAN FPSM-004

NOTES:

1. PIPING AND SPRINKLER HEAD LOCATIONS ARE FOR ILLUSTRATIVE PURPOSES OF REQUIRED COVERAGE AREAS ONLY. THE CONTRACTOR SHALL LOCATE PIPING AND SPRINKLERS AS REQUIRED BY ITS DESIGN, IN COMPLIANCE WITH GENERAL NOTE 6 ON DRAWING NO. FPM-002.

2. LABEL CEILING TILES OR GRID TO LOCATE SPRINKLER VALVES.



KEY PLAN

1" INSPECTOR TEST FITTING

DESIGNER/DRAFTER: EAM CHECKED BY: JAB

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

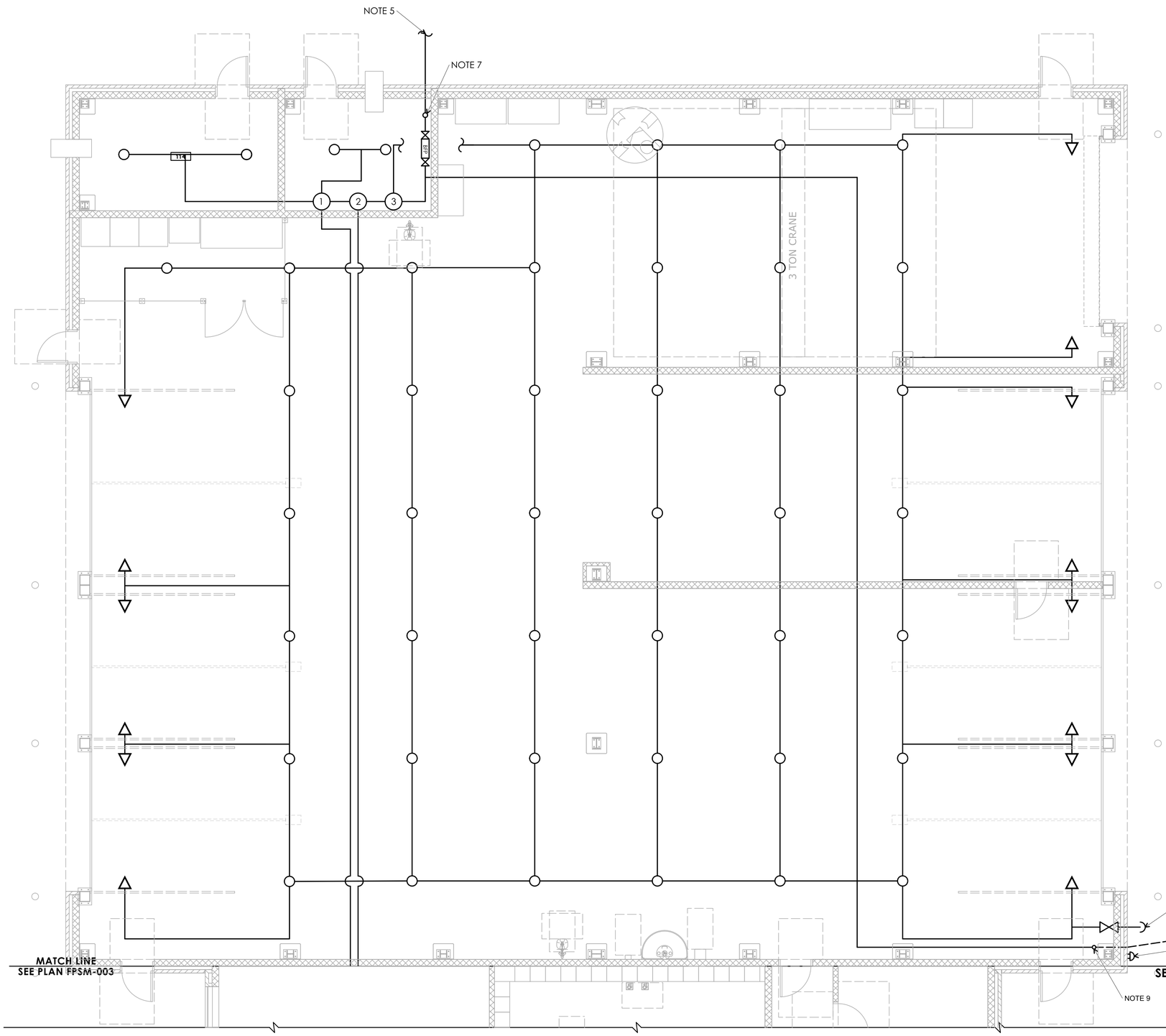
SIGNATURE/
BLOCK:

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: OFFICE AREA FIRE PROTECTION PLAN

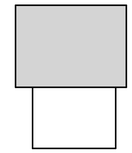
DRAWING NO.
FPSM-003
SHEET NO.
07C.03

LASTED SAVED BY: mittoe **FILE NAME:** D:\Users\MittoE\State of Connecticut\0042-0324 - Design\F_Mech\Signs & Markings\FD_MST_MEC_0042_0324_FPSM003.dgn
PLOTTED DATE: 2/17/2022



NOTES:

1. PIPING AND SPRINKLER HEAD LOCATIONS ARE FOR ILLUSTRATIVE PURPOSES OF REQUIRED COVERAGE AREAS ONLY. THE CONTRACTOR SHALL LOCATE PIPING AND SPRINKLERS AS REQUIRED BY ITS DESIGN, IN COMPLIANCE WITH GENERAL NOTE 6 ON DRAWING NO. FPM-002.
2. COORDINATE SPRINKLER PIPING AND SPRINKLER HEAD LOCATIONS WITH CRANE.
3. COORDINATE SIDEWALL SPRINKLER INSTALLATION WITH OVERHEAD DOORS.
4. FIRE PROTECTION INSTALLER SHALL COORDINATE INSTALLATION OF FDC WITH MASONRY INSTALLER.
5. TO 5'-0" OFF FOUNDATION WALL BY FIRE PROTECTION INSTALLER. REFER TO DRAWING NO. C-005 FOR CONTINUATION PAST 5'-0" OFF FOUNDATION WALL.
6. REFER TO RISER DETAIL ON DRAWING NO. FPM-005.
7. PROVIDE 8" id SLEEVE THRU SLAB. REFER TO DETAIL ON DRAWING NO. PSM-010.
8. PROVIDE UPRIGHT SPRINKLERS FOR THE SPRINKLER ROOM. REFER TO DETAIL ON DRAWING NO. FPM-005.
9. PROVIDE 8" id SLEEVE THRU SLAB. REFER TO DETAIL ON DRAWING NO. PSM-010.



KEY PLAN

REV. | DATE | REVISION DESCRIPTION

DESIGNER/DRAFTER: EAM CHECKED BY: JAB

SCALE: 3/16" = 1'-0"

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: BAY AREA FIRE PROTECTION PLAN

DRAWING NO. FPSM-004
SHEET NO. **07C.04**

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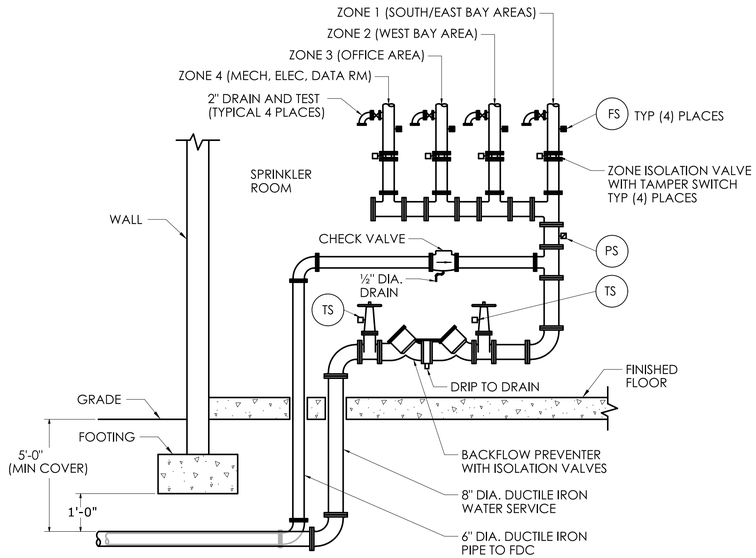
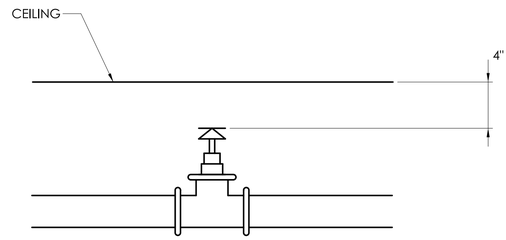
PLOTTED DATE: 2/17/2022



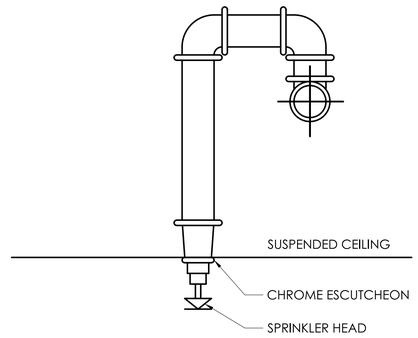
NOTE:

1. ZONE DIAMETERS SHALL BE AS REQUIRED BY CONTRACTOR HYDRAULIC CALCULATIONS.
2. FIRE DEPARTMENT CONNECTION (FDC) SHALL BE FREESTANDING YARD-TYPE WITH DUAL 2½" INLETS. REFER TO DRAWING NO. C-005 (CO#2) FOR FDC LOCATION.

FIRE SERVICE ENTRANCE & RISER DETAIL



TYPICAL UPRIGHT SPRINKLER HEAD



TYPICAL PENDENT HEAD @ SUSPENDED CEILING

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PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: FIRE PROTECTION DETAILS

DRAWING NO.
FPSM-005
SHEET NO.
07C.05

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PLOTTED DATE: 2/17/2022