

PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA ADMINISTRATIVE CODE 61G15

EXISTING FIRE SPRINKLER SYSTEM SHOWN FOR REFERENCE ONLY, ALTERATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM BASED ON NEW BUILDING RENOVATIONS SHALL BE SUBJECT TO THE FOLLOWING:

FIRE SPRINKLER SYSTEM LAYOUT: INCLUDING COORDINATION W/ STRUCTURE, LIGHTING, LOCATION OF RISERS, STANDPIPES, CROSS MAINS, BRANCH LINES, SPRINKLER HEADS, SIZING OF PIPE, HANGER LOCATIONS, AND HYDRAULIC CALCULATIONS BASED ON THESE DOCUMENTS, SHALL BE PERFORMED BY THE INSTALLING FIRE SPRINKLER CONTRACTOR.

A) POINT-OF-SERVICE, WORK SHALL BE INSIDE BUILDING, SEE FP-2 FOR DESIGNATED AREAS.

B) APPLICABLE NFPA STANDARDS: NFPA-13, 2007 ed. (CURRENT MIAMI-DADE ADOPTED EDITION), NFPA 25 (2003 ed) and NFPA 24 (2002 ed.) AS WELL AS LOCAL MUNICIPAL REQUIREMENTS.

- STORAGE, MECHANICAL AND ELECTRICAL ROOMS: ORDINARY HAZARD II

- OFFICES: USING 155 DEG, QUICK RESPONSE SPRINKLERS, 5.6K FACTOR, MAX. SPRINKLER COVERAGE: 225 SQFT/HD.; DESIGN DENSITY: 0.10 GPM/SQFT. DESIGN AREA SHALL BE THE MOST HYDRAULICALLY REMOTE 1500 SQ.FT. REDUCTION APPLIED PER NFPA 13 2007 EDITION, SECTION 11.2.3.2.3, USE OF QUICK RESPONSE SPRINKLERS.

- PARKING AREA: USING 200 DEG, QUICK RESPONSE SPRINKLERS, 5.6K FACTOR, MAX SPRINKLER COVERAGE 130 SQFT/HD; DESIGN DENSITY 0.15 GPM/SQFT. DESIGN AREA SHALL BE THE MOST HYDRAULICALLY REMOTE 1500 SQ.FT. REDUCTION APPLIED PER NFPA 13 2007 EDITION, SECTION 11.2.3.2.3, USE OF QUICK RESPONSE SPRINKLERS.

G) FIRE HYDRANT FLOW TEST SHALL BE REQUESTED TO MIAMI DADE COUNTY FIRE RESCUE DEPARTMENT, INFORMATION SHALL BE UPDATED BY FIRE SPRINKLER CONTRACTOR. HYDRAULIC CALCULATIONS WERE PERFORMED FOR THESE DOCUMENTS USING A FIRE HYDRANT FLOW TEST FROM AN ADJACENT LOCATION AT 8050 NW 79th AVE, INFORMATION IS AS FOLLOWS:

H) HYDRAULIC CALCULATION PERFORMED IN NEW OFFICES AT 1ST FL AREA "1A" TO DEMONSTRATE THAT SYSTEM DEMAND IS MET FOR THE ADDED SPRINKLERS IN THE EXISTING SPRINKLER SYSTEM, SEE FP-2 FOR MORE DETAILS, ROOM DESIGN METHOD USED. SPRINKLER SYSTEM DEMAND FOR THE EXPANSION IS LESS THAN THE DEMAND FOR THE EXISTING FIRE SPRINKLER SYSTEM.

1) ALL CONTROL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES. ALL SPRINKLER SYSTEMS SHALL BE MONITORED BY THE BUILDING ALARM SYSTEM TO INDICATE A WATER-FLOW CONDITION.

K) ALL FIRE PROTECTION COMPONENTS SHALL BE UL/FM LISTED FOR INTENDED SERVICE.

1. THE INTENT, AND EXTENT OF THIS DESIGN IS AS ILLUSTRATED, BUT IS DIAGRAMMATIC ONLY. THE CONTRACTOR'S INSTALLATION "SHOP-DRAWINGS" SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO STARTING

2. ANY ADDITIONAL PIPE, FITTINGS, VALVES, COMPONENTS, HANGERS, SPRINKLERS, ETC. REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, TO MAINTAIN PROPER CLEARANCES, OR AT THE DIRECTION OF THE AUTHORITY HAVING JURISDICTION, SHALL BE PROVIDED FOR A COMPLETE AND WORKING SYSTEM. 3. SPRINKLER CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR THE INSTALLATION AND TESTING OF THE FIRE SPRINKLER SYSTEMS, AND ADHERE TO ALL PERMIT, LICENSE, AND GOVERNMENTAL REQUIREMENTS.

4. CONTRACTOR SHALL CONDUCT A WATER SUPPLY TEST, IN ACCORDANCE WITH THE LOCAL AUTHORITIES, PRIOR TO PREPARATION OF SHOP DRAWINGS AND IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF THE TEST

5. CONTRACTOR SHALL SUBMIT A COMPLETE INSTALLATION PACKAGE TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO MATERIAL REQUISITIONING AND FABRICATION. INSTALLATION PACKAGE SHALL INCLUDE.

A. WORKING DRAWINGS PER REQUIREMENTS OF NFPA-13.

6. MATERIAL SPECIFICATION BROCHURE SHALL INCLUDE ALL SYSTEM COMPONENTS, TO THE POINT OF SERVICE INCLUDING THE BACKFLOW PREVENTER.

7. THE INSTALLATION OF NEW SYSTEM PIPING AND COMPONENTS IS PROHIBITED PRIOR TO THE SATISFACTORY REVIEW OF THE INSTALLATION PACKAGE BY THE ENGINEER OF RECORD. 8. FIRE SPRINKLER CONTRACTOR SHALL INSTALL PIPING AND COMPONENTS SHOWING COMPETENT WORKMANSHIP. CHANGES IN INSTALLATION AS A RESULT OF POOR CRAFTSMANSHIP SHALL BE AS DIRECTED BY THE ARCHITECT, ENGINEER

9. THE INSTALLING CONTRACTOR SHALL ENSURE THE SPRINKLER SYSTEM IS COORDINATED WITH ALL OTHER TRADES AND BUILDING FEATURES. SPRINKLERS SHALL BE LOCATED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF

NFPA-13 FOR OBSTRUCTIONS. THIS SHALL INCLUDE OBSTRUCTIONS TO SPRINKLER DISCHARGE THAT PREVENT WATER FROM REACHING THE HAZARD, AND OBSTRUCTIONS TO SPRINKLER DISCHARGE PATTERN DEVELOPMENT. CONTRACTOR SHALL LOCATE SPRINKLERS AS REQUIRED TO ADHERE TO THESE REQUIREMENTS AND/OR PROVIDE ADDITIONAL SPRINKLERS AS NECESSARY TO COMPLY WITH THESE SECTIONS. 10. SPRINKLERS SHALL BE INSTALLED UNDER ALL EXPOSED OBSTRUCTIONS OVER 4 FT. IN WIDTH PER NFPA-13, AND LOCAL AUTHORITY REQUIREMENTS.

11. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE TO OWNER ALL LITERATURE AND INSTRUCTIONS PROVIDED BY THE MANUFACTURER DESCRIBING PROPER OPERATION AND MAINTENANCE OF ANY EQUIPMENT AND DEVICES INSTALLED, AND

** Florida Administrative Rule, Section 61G15-32, requires the engineer of record to make reasonable efforts to identify water supplies that could lead to Microbial Induced (or Influenced) Corrosion. (MIC) According to the rule, such efforts may consist of discussions with the local water purveyor and/or fire official; familiarity with conditions in the local area; or laboratory testing of water supplies. The Rule further requires that when conditions are found that may result in MIC contamination of the fire protection piping, the engineer shall design corrective measures.

Unfortunately, there is no reliable means for complying with this rule. Water supplies are in constant flux and various contaminants (microscopic or otherwise), which may lead to MIC and other types of internal corrosion, are always present in every water supply. Wiginton Corporation, and it's subsidiary, Wiginton Fire Protection Engineering, as a general rule, remains alert to this potential hazard and hereby advises the client that MIC is an unexplainable phenomenon that may occur indiscriminately and there is no known reliable means for protecting against MIC. Wiginton Corporation and its subsidiary, Wiginton Fire Protection Engineering, do not warrant against the development of MIC under any circumstances, however upon specific direction from the client to do so, will perform

1) SCOPE OF WORK: ALTERATION TO THE EXISTING FIRE SPRINKLER SYSTEM TO PROTECT THE BUILDING RENOVATIONS AT THE OFFICE AREAS AND LOBBY.

2) ALL PIPING AND HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13 2007, AND ANY PERTINENT LOCAL ORDINANCES.

4) ALL PENETRATIONS THROUGH FIRE WALLS MUST BE SEALED WITH A PENETRATION SYSTEM THAT MATCHES THE WALLS RATING.

5) LAYOUT PRESENTED IN THESE DRAWINGS IS FOR SCHEMATIC PURPOSES ONLY, AND HAS NOT BEEN COORDINATED WITH ANY OTHER BUILDING DISCIPLINES. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LAYOUT WITH STRUCTURAL STEEL, LIGHTING, HVAC, ETC...

THIS DOCUMENT IS PROVIDED, PURSUANT TO FLORIDA STATE LAW, TO ESTABLISH MINIMUM DESIGN CRITERA AND IS FOR GENERAL PERMITTING AND INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING FIRE SPRINKLER CONTRACTOR TO INCLUDE THE NECESSARY LAYOUT, MATERIAL, AND LABOR TO FULLY COORDINATE WITH ALL OTHER TRADES, AND TO PREPARE WORKING INSTALLATION DRAWINGS, TO ASSURE THAT THE EXPECTED DESIGN

INDEX

LOCATION SHEET SITE PLAN FP-1 FP-2

1ST, 2ND & 3RD

HEAD COUNT

FP-1 FP-2

TOTAL

DRAWN BY:

J.F.V.

DATE: **3-25-14**

DATE PLOTTED: 3-25-14

TOWN OF MEDLEY Wiginton Fire Systems 10050 NW 116 Way Bay 16 Medley, FL 33178 7777 NW 72nd AVE Phone 305.888.2402 MEDLEY, FL 33166 Fax 305.888.3804

PROJECT NAME/ADDRESS: FIRE SPRINKLER PLAN

POLICE EXPANSION

FP 1 DRAWING NO:

Florida Certification # 7977

5060219

GRAPHIC SCALE:

MIAMI DADE / MEDLEY

CALE: AS NOTED

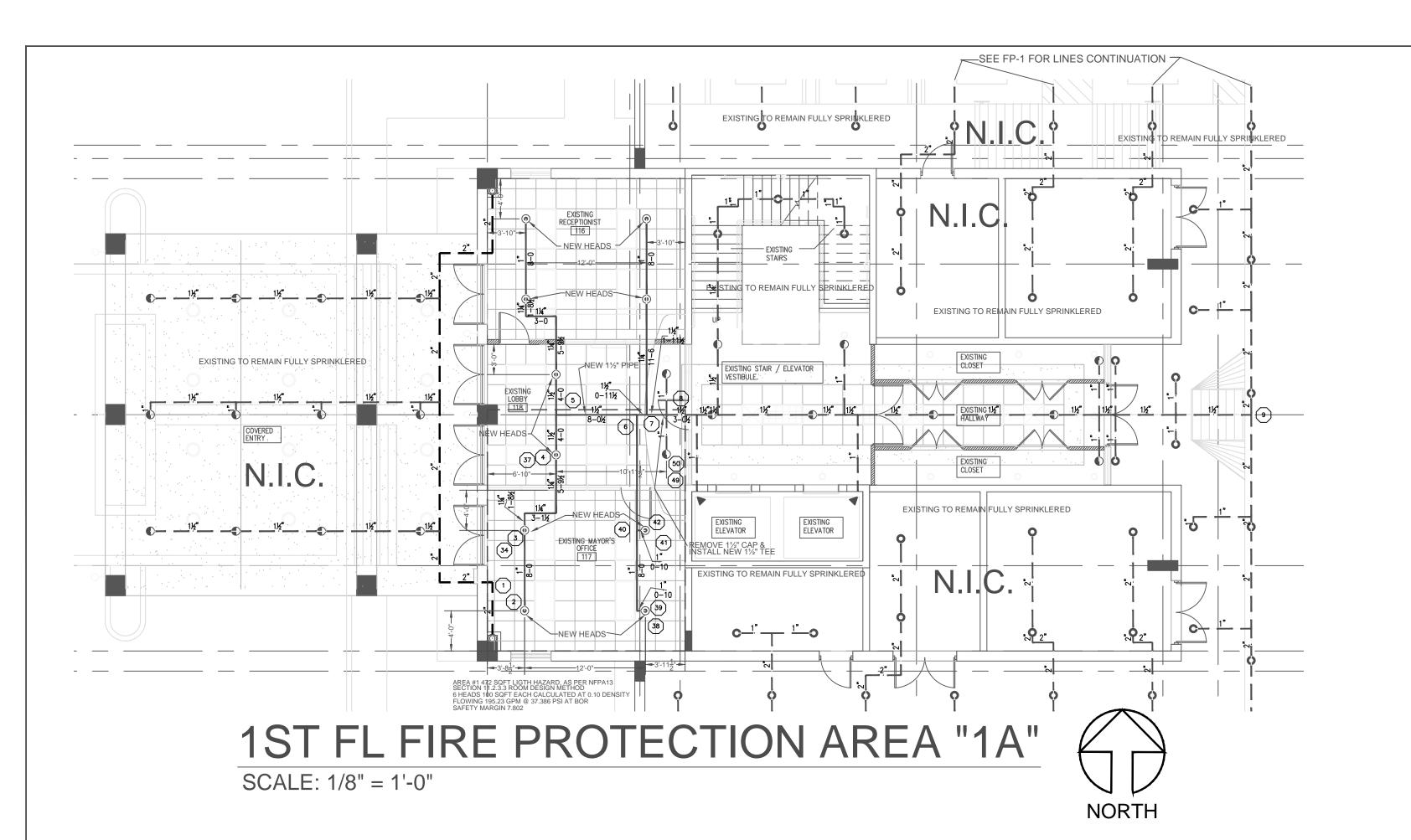
PKRS THIS SHEET: N/A

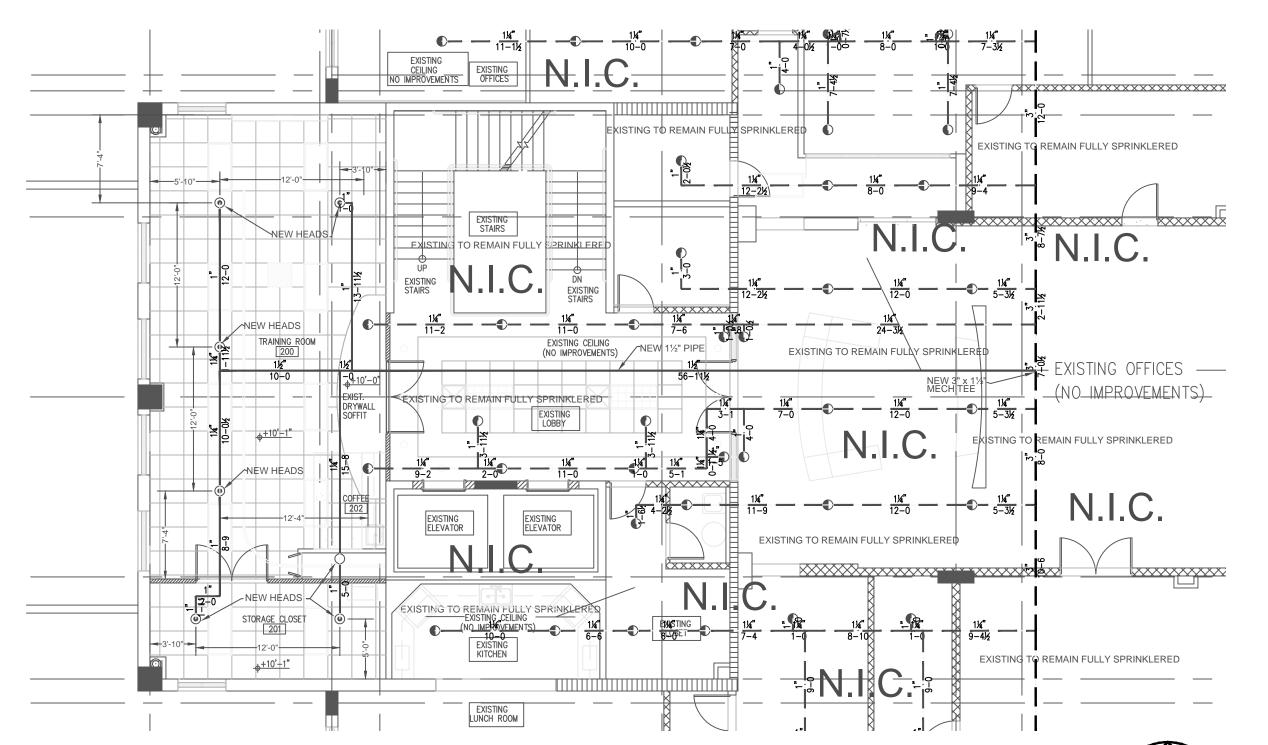
PKRS ON JOB: 48

RMIT NO:

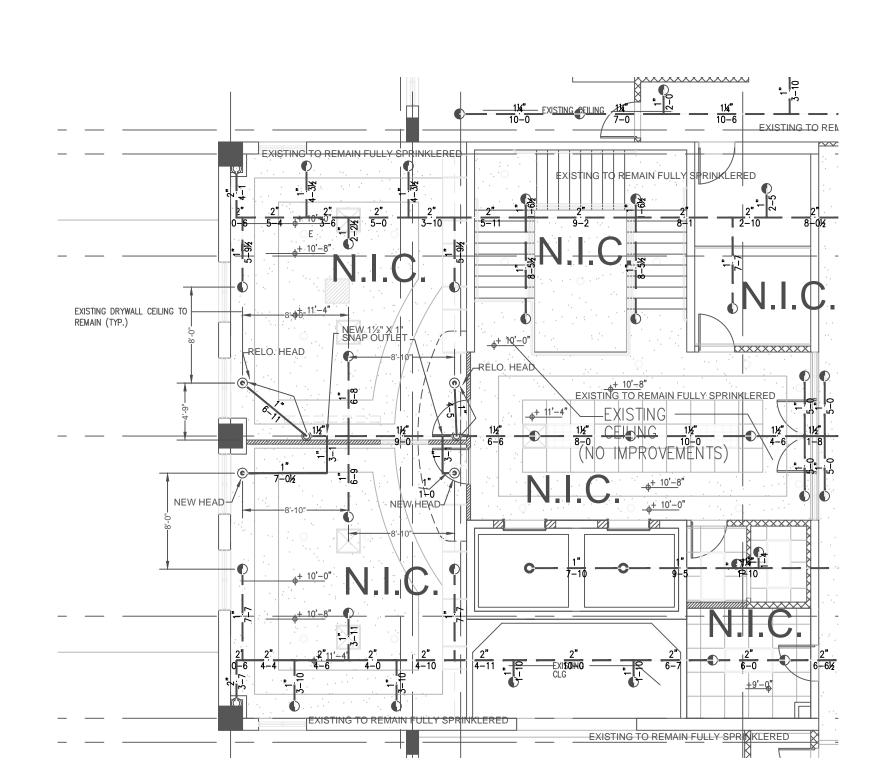
EQUIPMENT ACCORDING TO THE LATEST EDITION OF NFPA 25 AND ALL GOVERNING CODES AND ORDINANCES.

30"x 42"





2ND FL FIRE PROTECTION AREA "2A" SCALE: 1/8" = 1'-0"

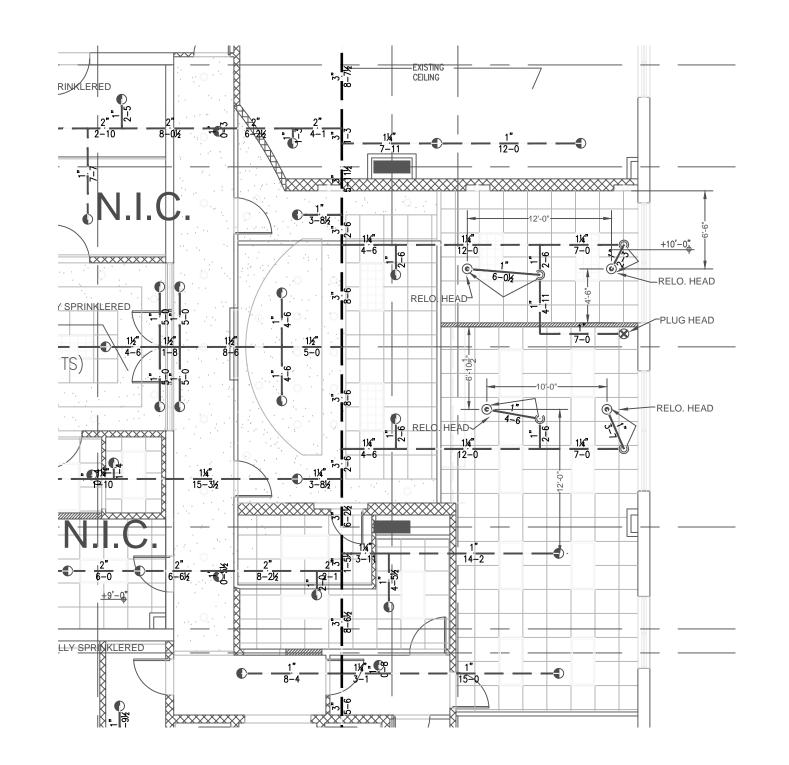


3RD FL FIRE PROTECTION AREA "3A" SCALE: 1/8" = 1'-0"

1ST FL FIRE PROTECTION AREA "1B" SCALE: 1/8" = 1'-0"



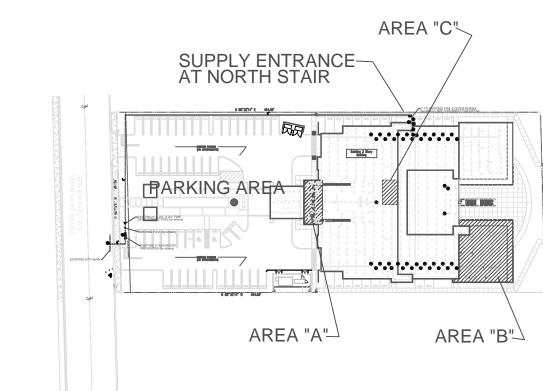




3RD FL FIRE PROTECTION AREA "3C"

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





	SYSTE	M DEMAN	ID INF	ORMA	ΓΙΟΝ	
A	DENSITY/AREA	NO. OF SPKRS IN REMOTE AREA	GPM REQD AT BOR	PSI REQD AT BOR	HOSE GPM ADDED	AT NODE
	0.10/472	6	195.23	37.386	100	BOR

	DATE PLOTTED: 3-25-14
Wiginton Fire Systems 10050 NW 116 Way Bay 16 Medley, FL 33178 Phone 305.888.2402 Fax 305.888.3804	TOWN OF MEDLEY POLICE EXPANSION 7777 NW 72nd AVE MEDLEY, FL 33166 PROJECT NAME/ADDRESS:
DRAWN BY: J.F.V.	FIRE SPRINKLER PLAN

DATE: 3-25-14 SHEET TITLE

LEGEND

— — — DENOTES EXISTING PIPE TO REMAIN

DENOTES PIPE HANGER

DENOTES EXISTING PIPE TO BE DEOMOLISHED

DENOTES EXISTING PEND SPRINKLER HEAD TO REMAIN VIKING MICROFAST, VK302, 155 DEG, 1/2", 5.6K, QR, SEMI-REC CHROME

DENOTES EXISTING PEND SPRINKLER HEAD TO BE RELOCATED VIKING MICROFAST, VK302, 155 DEG, 1/2", 5.6K, QR, SEMI-REC CHROME

DENOTES NEW PEND SPRINKLER HEAD TO BE INSTALLED VIKING MICROFAST, VK302, 155 DEG, 1/2", 5.6K, QR, SEMI-REC CHROME

DENOTES EXISTING U/R SPRINKLER HEAD TO REMAIN VIKING MICROFAST, VK300, 200 DEG, 1/2", 5.6K, QR, WHITE

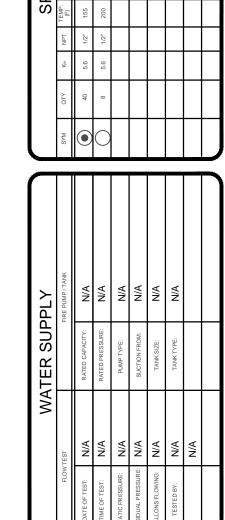
DENOTES EXISTING S/W SPRINKLER HEAD TO REMAIN VIKING MICROFAST, VK305, 155 DEG, 1/2", 5.6K, QR, BRASS

DENOTES EXISTING U/R SPRINKLER HEAD TO BE RELOCATED VIKING MICROFAST, VK300, 155 DEG, 1/2", 5.6K, QR, WHITE

DENOTES NEW U/R SPRINKLER HEAD TO BE INSTALLED VIKING MICROFAST, VK300, 155 DEG, 1/2", 5.6K, QR, WHITE

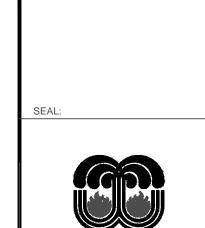
DENOTES EXISTING SPRINKLER HEAD TO BE PLUGGED

DENOTES NEW PIPE



0 4' 8'

CALE: AS NOTED PKRS THIS SHEET: 48





5060219

FP 2 of 2

IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER/ MANAGER TO PROVIDE THE REQUIRED MAINTAINENCE AND UPKEEP OF THIS FIRE PROTECTION SYSTEM AND RELATED EQUIPMENT ACCORDING TO THE LATEST EDITION OF NFPA 25 AND ALL GOVERNING