

October 7, 2022

To: All Bidders

From: Kate Bailey
Director of Procurement

Re: **ADDENDUM NO. 3**
22-028.6 – Pier 78 Annex Fire Sprinkler System Upgrades

This Addendum is issued to:

1. EXTEND the Bid Submission Deadline from Thursday, October 13, 2022, at 2:00 P.M. until **Friday, October 21, 2022, at 2:00 P.M.**
2. EXTEND the Questioning deadline from Thursday, September 29, 2022, at 12:00 P.M. until **Friday, October 14, 2022, at 12:00 P.M.** All questions must be directed to procurement@philaport.com.
3. Provide the following revised documents which are attached and made part of this Addendum. All bidders must use the revised Bid Form for bid submission.

All project revisions are detailed in the revised Bid Form, and revised Specifications and Drawings:

- a. revised Bid Form
 - b. revised Specifications and Drawings
4. To respond to the following question received:
Q1: Please confirm sheet size of the drawings. Documents state 11" x 17" paper, but the scale is not lining up.

A1: The sheet size is 30" x 42".

All other terms and conditions remain unchanged.

Bidders shall acknowledge receipt of this addendum by immediately emailing a copy of the completed acknowledgment to Kate Bailey at procurement@philaport.com

ACKNOWLEDGMENT OF RECEIPT OF ADDENDUM NO. 3

Project #22-028.6

Pier 78 Annex Fire Sprinkler System Upgrades

Date_____

By_____

Company_____

Telephone_____

Fax_____

Email_____

BID FORM REVISED PER ADDENDUM 3

Project 22-028.6
Pier 78 Annex Fire Sprinkler System Upgrades
Bid Form Revised Per Addendum 3

I. Monetary Section:

The undersigned, _____ (“Bidder”), having familiarized himself with the local conditions affecting the cost of the Work and with the Bidding and Contract Documents, including (A) this Bid Form, which includes (i) the Monetary Section, (ii) the Bidder Responsiveness Section, (iii) the Bidder Responsibility Section, (iv) the Project Point of Contact Section, (v) the Acknowledgment of Disclaimers Section and (vi) the Representation and Authorization Section, (B) General Conditions, and (C) the Plans and Specifications, hereby proposes to perform the Work, and to provide and furnish all labor, material, necessary tools, equipment, and all utility and transportation services necessary to perform and complete in a workmanlike manner all of the Work is required to be performed within **490 consecutive calendar** days, counting from the date of notice to proceed, for the following prices:

SEE BID FORM ON NEXT PAGE:

Project 22-028.6
Pier 78 Annex Fire Sprinkler System Upgrades
Bid Form Revised Per Addendum 3

Item	Description	Quantity	Units	Unit Price Written in Words	Unit Price	Total Price
1.0	Removal and disposal of sprinkler piping and heads to be removed	18000	LF			
1.1	Removal and disposal of main sprinkler piping	2400	LF			
2.0	Installation of sprinkler system, including sprinkler heads and the performance of acceptance testing after each phase	18000	LF			
2.1	Installation of new main sprinkler piping	2400	LF			
3.0	Supply, install, and commission new backflow preventer	1	EA			
4.0	Trenching of concrete and soil for new drainage piping	1	LS			
5.0	Installation of new drainage piping, backfill, and concrete	1	LS			
6.0	Remove and replace all existing fire alarm devices	1	LS			
7.0	Supply and install new fire alarm devices. Commission complete fire alarm system	1	LS			
8.0	Fire watch while sprinkler system is impaired	1600	HRS			
9.0	General conditions, including but not limited to Mobilization and Demobilization	1	LS			

TOTAL NOT-TO EXCEED BID PRICE:

Total Not-to-Exceed Price Written in Words: \$ _____

Total Not-to-Exceed Price Written in Numbers: \$ _____

Note: Bid quantity is an estimate and used for bid evaluation only, bids will be evaluated based upon Total Bid Price. Actual quantity used shall be the basis for payments, and all unit prices shall be guaranteed. The unit price for each item above should be all inclusive of labor, materials, and equipment.

II. Bidder Responsiveness Section:

- A. The Bidder certifies to the best of his knowledge, information, and belief that:
- i. That for the Bidder and his Subcontractors required to be disclosed or approved by PhilaPort, and as of the date of its execution of this Bid, neither the Bidder, nor any such Subcontractors, are under suspension or debarment by the Commonwealth or any governmental entity, instrumentality, or authority and, if the Bidder cannot so certify, then it agrees to submit, along with its Bid, a written explanation of why such certification cannot be made and why the Contract should nonetheless be awarded to Bidder.
 - ii. That as of the date of its execution of this Bid, the Bidder has no tax liabilities or other Commonwealth obligations or has filed a timely administrative or judicial appeal if such liabilities or obligations exist or is subject to a duly approved deferred payment plan if such liabilities exist.
 - iii. That the Bidder possesses all required business, contracting and trade licenses required to perform the Work.
 - iv. That the Bidder possesses all the technical qualifications and resources, including equipment, personnel and financial resources, to perform the Work.
 - v. (1) That the Bidder (and the labor force) participates at the time of bid submission in an approved Apprenticeship Program as defined in the General Conditions for each craft or trade of the labor force contemplated to perform the work, (2) that such Program is currently registered with the Pennsylvania Apprenticeship and Training Council and (3) that such Program has apprentices and trainees currently participating.
- B. The bidder acknowledges by submission of this bid, that the Bidder shall perform on the site and with his own organization at least twenty percent (20%) of the total amount of Work to be performed under this contract, exclusive of profit, overhead and the costs of procuring insurance and bonds. The bidder shall submit with his bid a complete description of the work that will be performed (e.g., earthwork, paving, brickwork, roofing, etc.), the percentage of the total work this represents, and the estimated dollar value thereof, as set forth below:

The Bidder shall perform the following Work:

Project 22-028.6
Pier 78 Annex Fire Sprinkler System Upgrades
Bid Form Revised Per Addendum 3

Percentage of Work to be performed by my organization _____%

Estimate cost of Work to be performed by my organization

\$ _____

III. Bidder Responsibility Section:

A. The Bidder certifies that:

- i. He has a satisfactory record of past contract performance and past law compliance that demonstrates a solid history of both technical competency and business integrity sufficient to justify receiving a Port PhilaPort contract; and
- ii. He currently possesses all qualifications, skills, resources, equipment personnel, financial resources and other required performance capabilities needed to successfully complete the prospective contract it is seeking to perform; and
- iii. He will comply with all relevant security requirements.
- iv. He will utilize labor enrolled in approved Apprenticeship Programs as defined in the General Conditions for the full duration of the contract Work.

B. The Bidder certifies the following responses to the questions posed to assist PhilaPort in its determination of Bidder Responsibility:

1. Has the Bidder been suspended and/or debarred or voluntarily agreed not to bid as a result of an action by any federal, state or local government agency or authority in the past three years?

Yes No

2. Has any officer, director, owner or managerial employee of the Bidder been convicted of a felony relating to construction, maintenance, service or repair contracting industries?

Yes No

3. Has the Bidder defaulted on any project in the past three years?

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Yes No

4. Has the Bidder had any type of business, contracting or trade license revoked or suspended by any government agency or authority in the past three (3) years?

Yes No

5. Has the Bidder been found in violation of any other law relating to its contracting business, including, but not limited to antitrust laws, licensing laws, tax laws, wage or hour laws, environmental or safety* laws, by a final decision of a court or government agency authority in the past three (3) years?

Yes No

*For purposes of this question, violations of safety laws may be limited to serious or willful safety violations.

6. Has the Bidder been the subject of voluntary or involuntary bankruptcy proceedings at any time in the past three years?

Yes No

C. Bidder's Vendor Data Management Unit Number is: _____

IV. Bidder's Point of Contact Section:

Contact Information for the Bidder on this project (for purposes of affirming bid price, issuing notice to proceed, insurance information, diversity information, etc.):

Name: _____

Title: _____

Phone: _____

Email: _____

V. Acknowledgment and Disclaimers Section:

It is understood that the right is reserved by PhilaPort to reject any or all bids and to waive any informalities in the Bid, as may be provided in the Instructions to Bidders.

Submission of false or misleading information or statements in connection with this Certification shall render the Bidder ineligible to perform work for PhilaPort and/or shall be considered a material breach of any contract entered and entitle PhilaPort to all applicable remedies available at law or in equity.

Further, in the event Contractor fails to gain entry or cannot perform Work due to noncompliance, the Authority reserves the right to provide escorts to be billed to the Contractor with no increase in cost under the contract or terminate the contract for failure to perform.

VI. Representation and Authorization Section:

By making this Bid, Bidder understands, represents, acknowledges, and certifies:

- a) That the foregoing representations regarding the past performance and present qualifications of the undersigned Bidder are true and correct;
- b) The Bidder has read and understands the terms and conditions of the Invitation for Bids and this Bid is made in accordance with those terms and conditions;
- c) The item(s) offered in the Bid will be in conformance with the specifications referenced in the Instructions for Bids without exceptions;
- d) The price(s) and amount of the Bid have been arrived at independently and without consultation, communication, or agreement with any other contractor, bidder or potential bidder;
- e) Neither the price(s) nor the amount of the Bid, and neither the approximate price(s) nor the approximate amount of the bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed prior to the bid opening;
- f) No attempt has been made or will be made to induce any firm or person to refrain from bidding on the contract, or to submit a bid higher than the bid, or to submit an intentionally high or noncompetitive bid or other form of complementary bid;
- g) The Bid is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid;
- h) This bid has been completed by an authorized representative of the Bidder that the sufficient knowledge and information to address all matter addressed herein;
- i) If an award is made to the Bidder, the Bidder agrees that it intends to be legally bound to the contract that is formed between PhilaPort and the Bidder; and
- j) If an award is made to the Bidder, the Bidder will enter into and execute a contract based upon this bid, without delay, upon notice of award of contract, and will not withdraw this bid in accordance with the Instructions to Bidders and Applicable Law.

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Bid Form Revised Per Addendum 3

*[Signature pages to follow; select the page that is appropriate
to your form of business organization.]*

[SIGNATURE PAGE FOR INDIVIDUAL BIDDER]
Project 22-028.6 - Pier 78 Annex Fire Sprinkler System Upgrades

Name of Bidder (Printed)

Signature of Individual

Trading and doing business as:

Business Address:

Tax Identification Number:

**If fictitious or trade name is employed in conduct of business, complete, by deletion as appropriate, the following statement:*

[Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Pennsylvania Law.]

[SIGNATURE PAGE FOR PARTNERSHIP BIDDER]
Project 22-028.6 - Pier 78 Annex Fire Sprinkler System Upgrades

Name of Partnership

Name of General Partner (Printed)

By: _____
(Signature of General Partner)

Witness: _____

Business Address:

Tax Identification Number:

The partners constituting the partnership herein named are:

Partner: _____

Address: _____

Partner: _____

Address: _____

Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Bid.

*If fictitious or trade name is employed by the partnership in conduct of its business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

[Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Pennsylvania Law.

[SIGNATURE PAGE FOR CORPORATE BIDDER]
Project 22-028.6 - Pier 78 Annex Fire Sprinkler System Upgrades

Name of Corporation

Attest:

Signature of Secretary, Assistant Secretary
Treasurer, Assistant Treasurer or
other authorized representative**

By:

Signature of President, Vice President or
other authorized representative*

(Print Name of Representative)

(Print Name of Representative)

** If a representative other than the President or a Vice President of the Corporation signs this Bid on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to execute this Bid on behalf of the Corporation.*

*** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to attest to the execution of this Bid on behalf of the Corporation.*

Business Address:

Tax Identification Number:

(1) Complete the following statement: The Corporation has been organized and is existing under laws of the State/Commonwealth of: _____.

(2) *If Corporation has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:*

[The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.]

(3) *If Corporation has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:*

[SIGNATURE PAGE FOR CORPORATE BIDDER]
Project 22-028.6 - Pier 78 Annex Fire Sprinkler System Upgrades

[The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.]

[SIGNATURE PAGE FOR A LIMITED LIABILITY COMPANY (LLC) BIDDER]
Project 22-028.6 - Pier 78 Annex Fire Sprinkler System Upgrades

Name of Limited Liability Company

Attest:

By:

Signature of an Authorized Representative*

Signature of Authorized Representative**

(Print Name of Representative)

(Print Name of Representative)

** The individual attesting verifies and represents that the person whose signature is affixed to this Bid on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.*

*** Check the box which applies to this Bid:*

_____ *The Certificate of Organization provides that LLC is to be managed by managers, and this Bid has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.*

_____ *The Certificate of Organization does not provide that LLC is to be managed by managers, and this Bid has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.*

_____ *This Bid has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Bid is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days. The Bidder and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Bid is carrying on business in the usual way; (2) the LLC authorizes the execution of this Bid even if execution and submission of this Bid is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.*

Business Address:

Tax Identification Number:

[SIGNATURE PAGE FOR A LIMITED LIABILITY COMPANY (LLC) BIDDER]
Project 22-028.6 - Pier 78 Annex Fire Sprinkler System Upgrades

(1) Complete the following statement: The LLC has been organized and is existing under laws of the State/Commonwealth of _____.

(2) If the LLC has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

[The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.]

(3) If the LLC has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

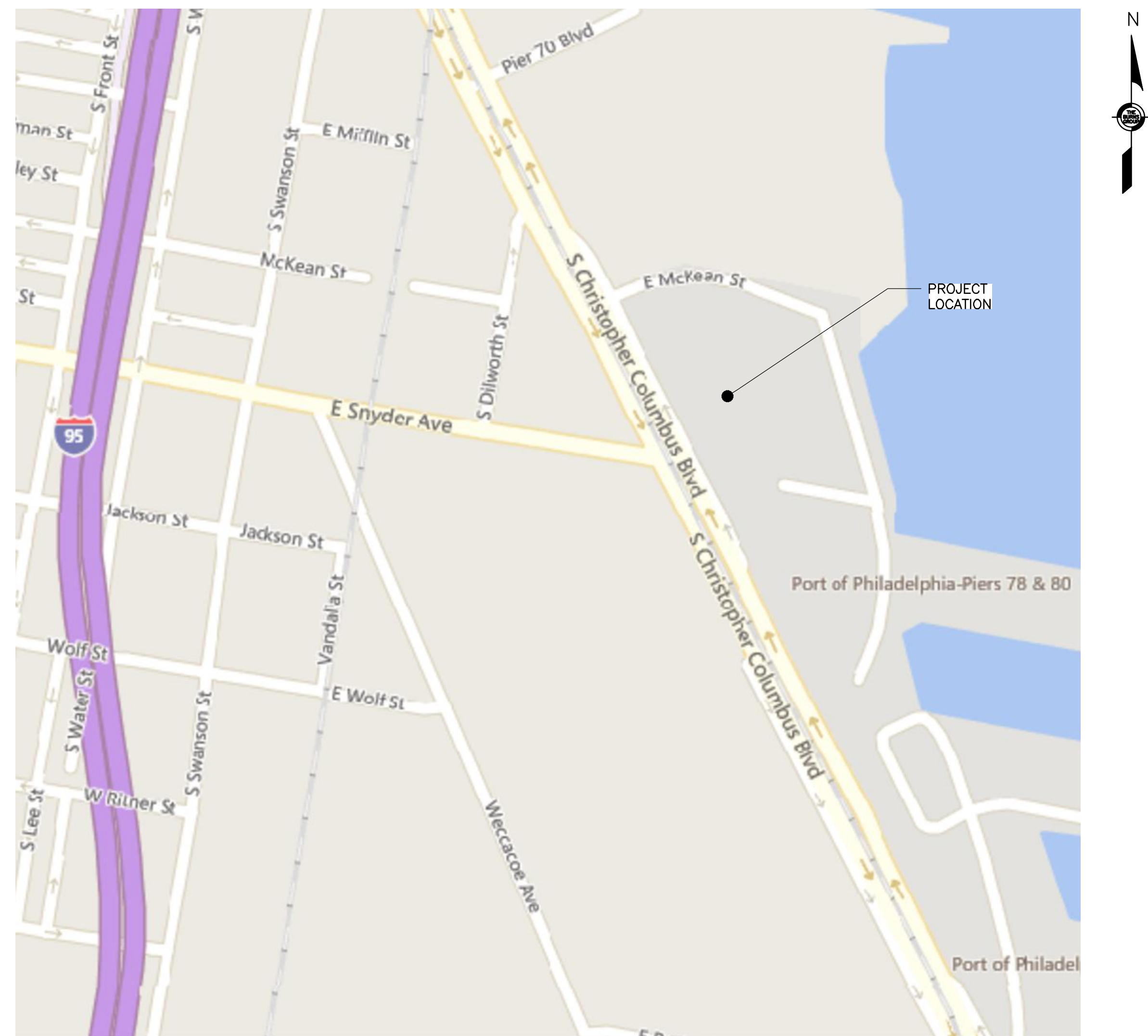
[The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.]

SPECIFICATIONS AND DRAWINGS REVISED PER ADDENDUM 3

THE PORT OF PHILADELPHIA

PHILAPORT PIER 78 ANNEX FIRE PROTECTION SPRINKLER UPGRADES PROJECT NO. 22-028.6

DRAWING LIST		
NO.	DRAWING NUMBER	DRAWING TITLE
1	CS-1	COVER SHEET
2	FP-0	FIRE PROTECTION NOTES AND LEGEND
3	FP-0.1	FIRE PROTECTION OVERALL PLAN AND PHASING
4	FPD-1	GROUND FLOOR PLAN - SYSTEM #1 DEMOLITION
5	FPD-2	GROUND FLOOR PLAN - SYSTEM #2 DEMOLITION
6	FPD-3	GROUND FLOOR PLAN - SYSTEM #3 DEMOLITION
7	FPD-4	GROUND FLOOR PLAN - SYSTEM #4 DEMOLITION
8	FPD-5	GROUND FLOOR PLAN - SYSTEM #5 DEMOLITION
9	FPD-6	GROUND FLOOR PLAN - SYSTEM #6 DEMOLITION
10	FPD-7	GROUND FLOOR PLAN - SYSTEM #7 DEMOLITION
11	FPD-8	ENLARGED FLOOR PLANS
12	FP-1	GROUND FLOOR PLAN - SYSTEM #1 NEW WORK
13	FP-2	GROUND FLOOR PLAN - SYSTEM #2 NEW WORK
14	FP-3	GROUND FLOOR PLAN - SYSTEM #3 NEW WORK
15	FP-4	GROUND FLOOR PLAN - SYSTEM #4 NEW WORK
16	FP-5	GROUND FLOOR PLAN - SYSTEM #5 NEW WORK
17	FP-6	GROUND FLOOR PLAN - SYSTEM #6 NEW WORK
18	FP-7	GROUND FLOOR PLAN - SYSTEM #7 NEW WORK
19	FP-8	ENLARGED FLOOR PLANS
20	FP-9	DETAILS
21	FP-10	SPECIFICATIONS
22	FA-0	FIRE ALARM NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS
23	FA-1	GROUND FLOOR PLAN - WAREHOUSE
24	FA-2	GROUND FLOOR PLAN - OFFICE
25	P-0	PLUMBING NOTES, LEGENDS, AND SPECS
26	P-1	GROUND FLOOR PLUMBING PLAN
27	S-1	GROUND FLOOR STRUCTURAL PLAN SECTIONS & DETAILS



PROJECT LOCATION

KEY PLAN

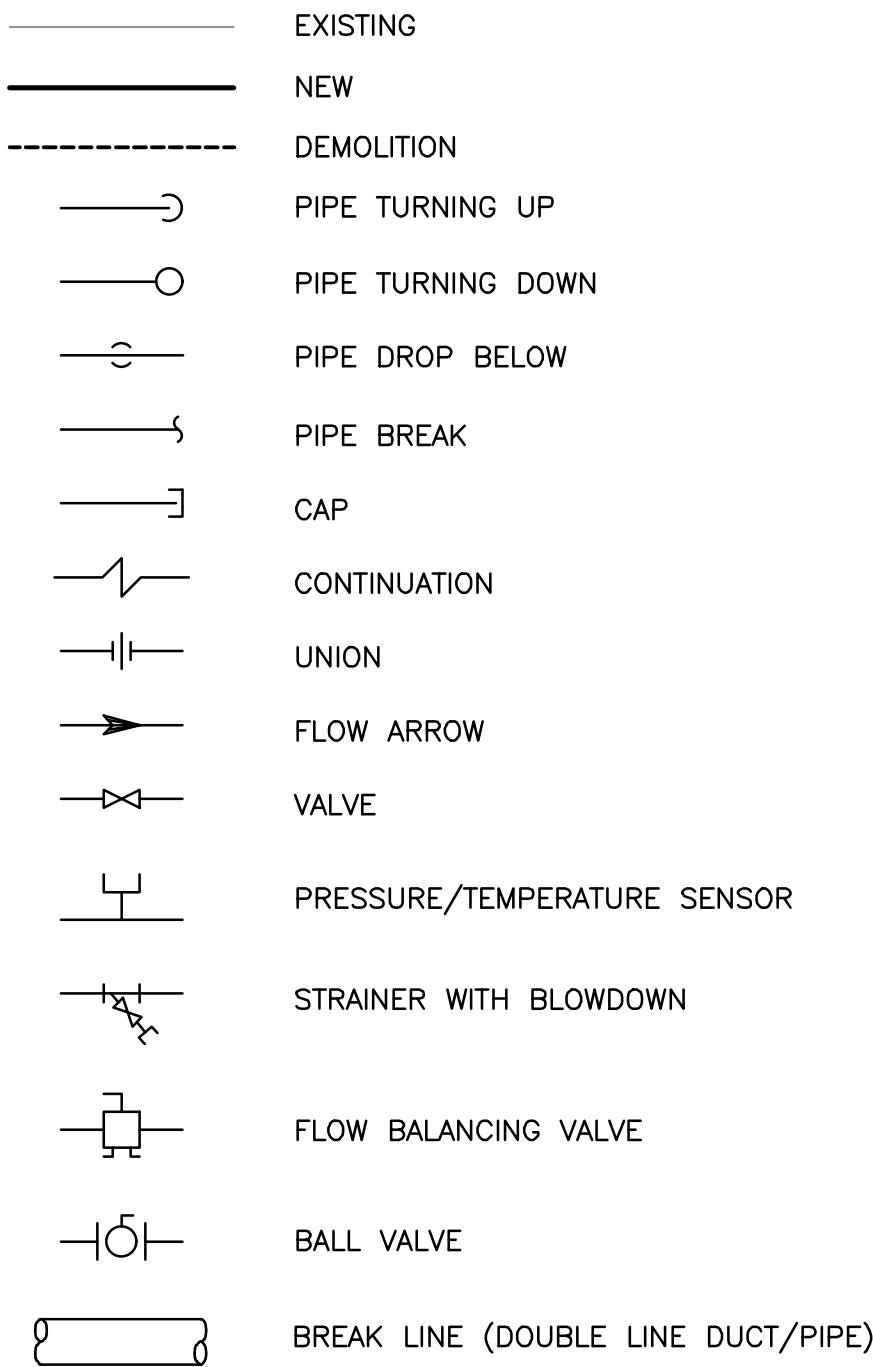
1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision

Project Title:
**PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES**

Drawing Title:
COVER SHEET

Date: 7/15/2022
Scale: AS NOTED
Drawn: JJS
Checked: PDK
Job No: 2020-028
Drawing No: **CS-1**

SYMBOLS



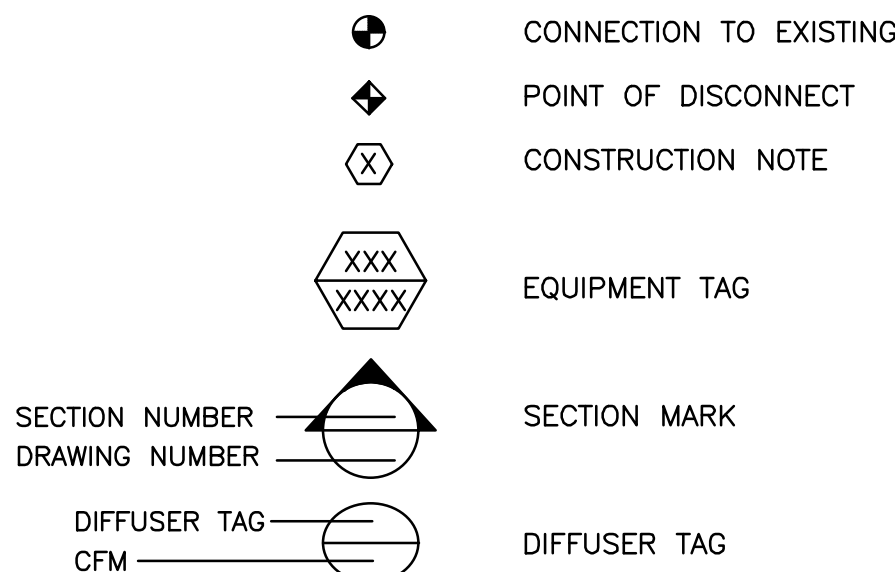
ABBREVIATIONS

(A)	ABANDONED
AHJ	AUTHORITY HAVING JURISDICTION
BOP	BOTTOM OF PIPE
BOD	BOTTOM OF DUCT
CA	COMPRESSED AIR
CW	COLD WATER/DOMESTIC COLD WATER
CWS	COLD WATER SUPPLY
DN	DOWN
(E)	EXISTING
EWT	ENTERING WATER TEMPERATURE
GC	GENERAL CONTRACTOR
GWB	GYPSTUM WALL BOARD
HW	HOT WATER/DOMESTIC HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
LWT	LEAVING WATER TEMPERATURE
MBH	ONE--THOUSAND BTU'S
N.C.	NORMALLY CLOSED
NG/G	NATURAL GAS
PC	PLUMBING CONTRACTOR
PM	PROJECT MANAGER
PRV	PRESSURE REDUCING VALVE
TYP.	TYPICAL
WPD	WATER PRESSURE DROP

DIMENSIONAL UNITS

ø	DIAMETER
&	AND
' OR FT	FEET
" OR IN	INCHES
GPM	GALLONS PER MINUTE
PSIG	POUNDS PER SQUARE INCH GAUGE

IDENTIFIERS



GENERAL NOTES

1. VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING OF MATERIAL, OR PERFORMING ANY WORK. NOTIFY THE ENGINEER IN WRITING OF ANY CONDITIONS OR DIMENSIONS THAT WOULD PREVENT OR HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. AT NO TIME SHALL THE CONTRACTOR INTERRUPT OPERATIONS AT THE PROJECT SITE UNLESS PRIOR ARRANGEMENTS HAVE BEEN OBTAINED IN WRITING FROM THE PHILAPORT PM. DAMAGES SHALL BE LEVIED AGAINST CONTRACTOR FOR EMPLOYEE DOWNTIME DUE TO OPERATIONS INTERRUPTIONS.
3. CONTRACTOR SHALL MAINTAIN A CLEAN AND ORDERLY STAGING AREA. WASTE STORAGE CONTAINERS SHALL BE EMPTIED DAILY AND IN A CLEAN FASHION, AND AS DIRECTED BY THE PROJECT MANAGER.
4. ALL WORK SHALL BE PERFORMED AS SHOWN ON THESE CONTRACT DRAWINGS AND AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS. DEVIATIONS SHALL BE CORRECTED AT NO COST TO PHILAPORT.
5. CONTRACTOR SHALL COMPLY WITH ALL WORKER OSHA SAFETY REGULATIONS AND ALL APPLICABLE CODES WHILE PERFORMING WORK.
6. WORK SHALL BE PERFORMED ON ONLY ONE SYSTEM AT A TIME AND AT ONLY ONE LOCATION AT A TIME, BASED ON THE PHASING PLAN APPROVED BY THE ENGINEER. ALLOW A MINIMUM OF 1 WEEK BETWEEN COMPLETION OF EACH PHASE, AND THE COMMENCEMENT OF THE NEXT PHASE FOR BUILDING OCCUPANTS TO MOVE FOR CONSTRUCTION. AFTER WORK ON EACH SYSTEM IS COMPLETED, THE SYSTEM SHALL BE TESTED. THE INSTALLATION AND TEST SHALL BE ACCEPTED BY THE ENGINEER BEFORE COMMENCING WITH WORK ON THE NEXT SYSTEM. SUBMIT CONSTRUCTION SCHEDULE FOR APPROVAL ONE WEEK IN ADVANCE TO THE PROJECT MANAGER ALONG WITH TWO WEEK LOOK AHEAD.
7. UPON COMPLETION OF WORK AT EACH AREA OF WORK, CLEAN AND RESTORE THE SITE, REMOVE ALL RUBBISH AND DEBRIS, VACUUM ALL AREAS AFFECTED BY CONSTRUCTION, REMOVE ALL BARRICADES AND ENCLOSURES, PERFORM A FINAL CLEANING OF ALL WORK TO THE SATISFACTION OF THE PROJECT MANAGER.
8. ANY DISCREPANCIES IN THE CONTRACT DRAWINGS, SPECIFICATIONS AND/OR DETAILS SHALL BE REPORTED TO THE ENGINEER IN WRITING. NO REVISION TO THE CONTRACT DOCUMENTS ARE PERMISSIBLE WITHOUT THE WRITTEN APPROVAL OF THE PROJECT MANAGER.
9. REPAIR OR REPLACE ANY EXISTING EQUIPMENT AND FACILITIES TO REMAIN, AND ANY BUILDING SURFACES WHICH ARE DAMAGED BY THE INSTALLATION OF WORK TO THE CLOSEST EXISTING CORNER, BREAK IN THE PLANE OR JOINT TO THE SATISFACTION OF THE PROJECT MANAGER AT NO ADDITIONAL COST TO PHILAPORT.
10. EXECUTE ALL WORK IN ACCORDANCE WITH THE BEST ACCEPTED TRADE PRACTICES, APPLICABLE CODES, REFERENCED STANDARDS FOR JOB AND AS PER MANUFACTURERS WRITTEN RECOMMENDATIONS.
11. THE PHRASES "REMOVE AND REPLACE" OR "DEMO AND INSTALL NEW" SHALL MEAN REMOVE EXISTING CONSTRUCTION AND FURNISH AND INSTALL NEW CONSTRUCTION MATERIALS AS NOTED ON THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS.
12. WHEN WATER IS USED AT THE CONSTRUCTION SITE, ENSURE THROUGH ANY APPROPRIATE MEASURES THAT THE WATER DOES NOT FREEZE ON ROADWAYS OR SIDEWALKS.
13. THERE ARE SEVERAL AREAS IN THE BUILDING WHERE THE SPRINKLER WORK WILL IMPACT WAREHOUSE OPERATIONS. THE CONTRACTOR AND PHILAPORT PROJECT MANAGER MUST COORDINATE A SCHEDULE THAT WILL REDUCE THE IMPACT ON WAREHOUSE OPERATIONS AND CONTRACTOR INSTALLATIONS.
14. EXTRA CARE SHALL BE TAKEN TO RELOCATE OR COVER COMBUSTIBLE MATERIALS DURING HOT WORK OPERATIONS.
15. EFFORTS SHOULD BE MADE SO THAT ANY FIRE PROTECTION WORK, SUCH AS AUTOMATIC SPRINKLER INSTALLATIONS KEEPS PACE WITH CONSTRUCTION AND PRECEDES COMBUSTIBLE OCCUPANCIES.
16. ADEQUATE EMERGENCY PROCEDURES AND TEMPORARY FIRE PROTECTIONS SHOULD BE AVAILABLE DURING CONSTRUCTION. THIS WOULD INCLUDE APPROPRIATE FIRE EXTINGUISHERS, A SMALL HOSE FOR USE ON HYDRANTS AND A SELF--PERFORMED WATCH SERVICE TO FLAG OUT POTENTIAL HAZARDS.

DEMOLITION NOTES

1. REMOVE FIRE PROTECTION PIPING, PIPE HANGERS, AND SUPPORTS AS SHOWN AS REQUIRED. CAP BRANCH PIPING AT THE MAIN UNLESS SHOWN OTHERWISE.
2. PROTECT EXISTING MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE.
3. LOCATE, IDENTIFY, AND PROTECT SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS.
4. ALL DEMOLISHED EQUIPMENT/PIPING SHALL BE PROMPTLY REMOVED AND DISPOSED OF IN ACCORDANCE WITH PENNSYLVANIA STATE REQUIREMENTS AND CITY OF PHILADELPHIA REQUIREMENTS.

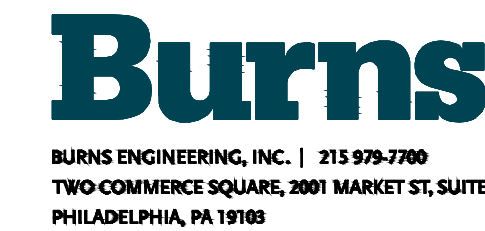
FIRE PROTECTION NOTES

1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION.
2. CONTRACTOR SHALL APPLY FOR, SECURE, AND PAY FOR ALL PERMITS AND/OR CERTIFICATES OF INSPECTION REQUIRED IN THE PERFORMANCE OF THE WORK BY ALL AUTHORITIES HAVING JURISDICTION.
3. ALL FIRE PROTECTION WORK SHALL BE IN COMPLETE CONFORMANCE WITH THE BUILDING CODE, PHILADELPHIA PLUMBING CODE, NFPA 13 AND EQUIPMENT MANUFACTURERS REQUIREMENTS. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND WHERE REQUIRED RELOCATE EXISTING UTILITIES FOR THE RENOVATION.
4. ALL WORK SHALL BE IN CONFORMANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES, INSURANCE AGENCIES, AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK.
5. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, SHALL BE REPAIRED, REPLACED OR OTHERWISE REMEDIED WITHOUT EXPENSE TO THE OWNER.
6. WHERE PRODUCTS ARE SCHEDULED HEREIN WITH A MANUFACTURER'S NAME AND MODEL NUMBER, IT IS TO ESTABLISH THE UNIT'S FEATURES AND STANDARD OF QUALITY; EQUAL SUBSTITUTIONS SHALL BE PERMITTED PENDING ENGINEERING REVIEW AND PHILAPORT'S FINAL APPROVAL.
7. ALL INTERIOR FLOOR AND WALL PENETRATIONS SHALL BE CORE DRILLED, SLEEVED AND SEALED WITH AN APPROVED FIRE RATED SEALANT.
8. CORE DRILL ALL EXTERIOR WALL PENETRATIONS AND SEAL ALL EXISTING AND NEW PENETRATIONS WATER AND WEATHERTIGHT.
9. SEISMIC PROTECTION OF ALL FIRE PROTECTION EQUIPMENT AND SPRINKLER PIPING SHALL COMPLY WITH NFPA 13, 2018 IBC, AND ASCE 07.
10. UNLESS SPECIFICALLY REQUIRED OTHERWISE, CONFORM TO THE MANUFACTURER'S WRITTEN STANDARDS AND RECOMMENDATIONS WHEN INSTALLING EQUIPMENT AND MATERIALS AND AS APPROVED BY THE ENGINEER.
11. STAGE SHUTDOWNS IN SUCH A MANNER THAT INTERRUPTIONS ARE KEPT TO A MINIMUM AND GIVE AT LEAST ONE WEEK ADVANCE WRITTEN NOTICE TO PHILAPORT'S PROJECT MANAGER FOR APPROVAL PRIOR TO SCHEDULING SHUTDOWNS. FURNISH AND INSTALL SIGNAGE TO NOTIFY BUILDING PERSONNEL OF SHUTDOWNS. OPENING AND CLOSING OF VALVES REQUIRED FOR SHUTDOWNS SHALL BE COORDINATED WITH PHILAPORT'S PROJECT MANAGER.
12. WHEN SHUTDOWNS OF ANY SYSTEM EXCEED 18 HOURS, FURNISH AND INSTALL TEMPORARY PIPING TO ENSURE ALL SYSTEMS ARE OPERATIONAL AT THE END OF EACH WORK SHIFT. REMOVE ALL TEMPORARY PIPING; DEMOLISH ALL EXISTING PIPING UNLESS PIPING IS SHOWN TO BE ABANDONED.
13. FURNISH AND INSTALL EXTRA SUPPORTS OF PIPING ON BOTH SIDES OF ALL EQUIPMENT AND VALVES WITHIN 12 INCHES OF DEVICE. FURNISH AND INSTALL INDEPENDENT SUPPORTS FOR ALL ZONE VALVES AND EQUIPMENT. PLACE HANGERS WITHIN 12 INCHES OF EACH HORIZONTAL ELBOW.
14. ARRANGE SPRINKLERS WITH A MAXIMUM ON--LINE SPACING OF 10 FT. A VARIATION OF 1 FT. IS PERMITTED ON EITHER DIMENSION TO AVOID OBSTRUCTIONS BY STRUCTURAL ELEMENTS.
15. INSTALL ALL GALVANIZED STEEL FIRE SUPPRESSION PIPING WITH SEAM ON TOP OF PIPE.
16. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED. INSTALL BALL VALVES FOR SHUT--OFF AND TO ISOLATE EQUIPMENT, PART OF SYSTEMS, OR VERTICAL RISERS.
17. ALL PIPE SHALL BE INSTALLED SO THAT THE SYSTEM MAY BE DRAINED. DRAINS TO BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13--2007 PARAGRAPH 8--15.2.
18. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIAL BEING USED IN THE COURSE OF THE WORK, PURCHASE OF OR INSTALLATION OF MATERIALS OR SYSTEM PARTS SHALL NOT PROCEED UNTIL REVIEWED AND APPROVED SHOP DRAWINGS ARE RETURNED TO THE SUBMITTING CONTRACTOR, SUBMIT SPRINKLER PIPING AND HEAD LAYOUT DRAWINGS FOR REVIEW. SUBMIT CUT SHEETS FOR PIPING, FITTINGS, ACCESSORIES, INSULATION, VALVES, FOR ENGINEERS APPROVAL.
19. PIPING SIZES FOR ALL TEST CONNECTIONS SHALL ACCOMMODATE TEST PROCEDURES AND ALLOW FOR ADEQUATE FLOW FOR ACCEPTANCE TEST. ALL TEST CONNECTIONS SHALL BE LOCATED SO THAT THE INSPECTOR CAN PERFORM TEST WITHOUT ASSISTANCE FROM A LIFT, LADDER, ETC.
20. PRESSURE TEST ALL PIPING SYSTEM FOR 24 HOURS BEFORE PUTTING INTO SERVICE. TEST SYSTEMS TO 150 PSIG. USE NITROGEN FOR TESTING NITROGEN PIPING SYSTEMS. REPLACE ANY EXISTING TO REMAIN PIPING THAT FAILS PRESSURE TEST. FOR BID PURPOSES, ASSUME REPLACEMENT OF 10% OF PIPING SHOWN AS EXISTING TO REMAIN.



KEY PLAN

1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision



Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

FIRE PROTECTION
NOTES AND
LEGEND

Date: 7/15/2022

Scale: AS NOTED

Drawn: JJS

Checked: PDK

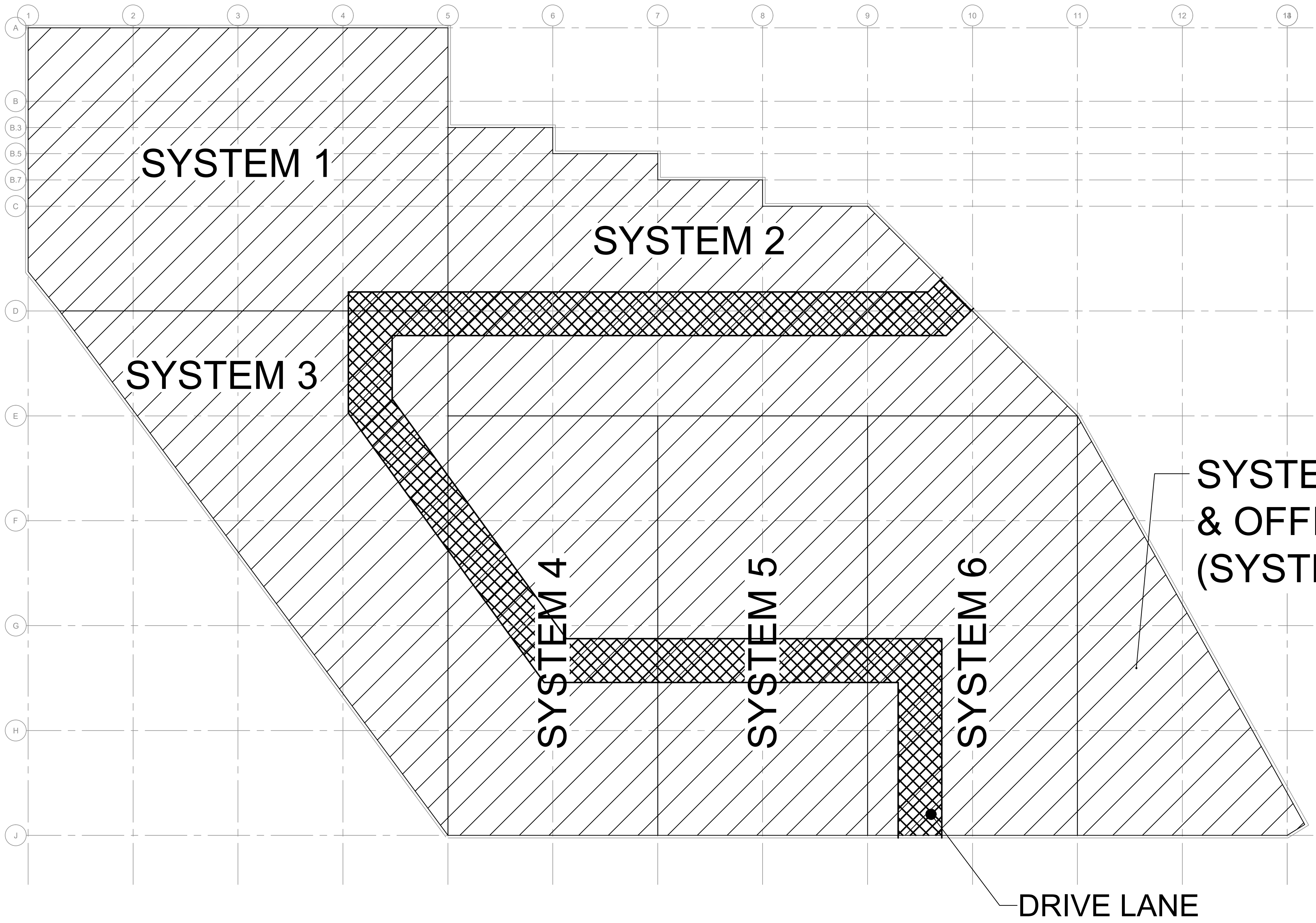
Job No: 2020--028

Drawing No:

FP-0

FIRE PROTECTION DESIGN CRITERIA			
TEST POINT	FLOW (GPM)	RESIDUAL PRESSURE (PSI)	REMARKS
1	0	133	8/21/2020 FIRE PUMP TEST DATA
2	2,538	127	8/21/2020 FIRE PUMP TEST DATA
3	3,747	82	8/21/2020 FIRE PUMP TEST DATA

FIRE PROTECTION DESIGN CRITERIA									
ZONE	AREA DESCRIPTION	VALVE LOCATION	SYSTEM TYPE	HAZARD CLASSIFICATION	DENSITY (GPM/SF)	HYDRAULIC REMOTE AREA (SF)	MAX COVERAGE PER SPRINKLER (SF)	HEAD TYPE	K--FACTOR
1	WAREHOUSE	VALVE ROOM 1	DRY	STORAGE	0.6	3,900	100	UPRIGHT, DRY TYPE	K=16.8
2	WAREHOUSE	VALVE ROOM 2	DRY	STORAGE	0.6	3,900	100	UPRIGHT, DRY TYPE	K=16.8
3	WAREHOUSE	VALVE ROOM 3/4	DRY	STORAGE	0.6	3,900	100	UPRIGHT, DRY TYPE	K=16.8
4	WAREHOUSE	VALVE ROOM 3/4	DRY	STORAGE	0.6	3,900	100	UPRIGHT, DRY TYPE	K=16.8
5	WAREHOUSE	VALVE ROOM 5	DRY	STORAGE	0.6	3,900	100	UPRIGHT, DRY TYPE	K=16.8
6	WAREHOUSE	VALVE ROOM 6	DRY	STORAGE	0.6	3,900	100	UPRIGHT, DRY TYPE	K=16.8
7	WAREHOUSE	FIRE PUMP ROOM	DRY	STORAGE	0.6	3,900	100	UPRIGHT, DRY TYPE	K=16.8



1 OVERALL FLOOR PLAN
1/32" = 1'-0"

CONSTRUCTION SEQUENCE NOTES:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A PROPOSED PHASING PLAN FOR REVIEW. ALL WORK SHALL BE COORDINATED AND EXECUTED PER THE PHASING PLAN.
2. CROSS-HATCHED AREA DENOTES DRIVING LANE, AND MUST BE KEPT ACTIVE DURING THE CONSTRUCTION PHASING. ANY CHANGES TO THE DRIVING LANE MUST BE SUBMITTED AND APPROVED BY PHILAPORT PRIOR TO BEGINNING WORK ON EACH PHASE
3. THE CONTRACTOR SHALL INSTALL THE FIRE SUPPRESSION AND FIRE ALARM SYSTEMS CONCURRENTLY IN ONE ZONE AT A TIME. AREAS OF WORK SHALL BE COORDINATED WITH PHILAPORT PM PRIOR TO BEGINNING WORK AND WORK CANNOT PROCEED TO THE NEXT ZONE WITHOUT APPROVAL BY PHILAPORT PM.
4. THE CONTRACTOR SHALL INSTALL ALL NEW SPRINKLER PIPING AND SPRINKLERS IN EACH ZONE PRIOR TO REMOVAL OF EXISTING SPRINKLER SYSTEM TO MINIMIZE IMPAIRMENT OF SYSTEM OPERATION.
 - 4.1. INSTALL NEW SPRINKLER PIPING IN PARALLEL WITH EXISTING PIPING.
 - 4.2. PRESSURE TEST NEW PIPING UPON COMPLETION OF EACH ZONE PRIOR TO CONNECTION TO EXISTING RISER.
 - 4.3. PROVIDE FIRE WATCH WHILE DISCONNECTING EXISTING MAIN AT RISER AND CONNECTING NEW PIPING UNTIL NEW SYSTEM IS FULLY OPERATIONAL AND TESTED.
 - 4.4. REMOVE ABANDONED PIPING PRIOR TO PROCEEDING TO THE NEXT ZONE.
5. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND COORDINATE ALL SHUTDOWN OF EXISTING SYSTEMS TO ACCOMPLISH THE INTENT OF THE SCOPE OF WORK BASED ON THE CONTRACTOR'S APPROVED PHASING PLAN.
6. UPON ACCEPTANCE BY PHILAPORT OF THE NEW FIRE SUPPRESSION AND FIRE ALARM SYSTEMS, THE CONTRACTOR SHALL PROVIDE A DEMOLITION PHASING PLAN FOR THE REMOVAL OF THE EXISTING SYSTEM, SUBJECT TO THE SAME RESTRICTIONS TO AREAS OF WORK AS THE SYSTEM INSTALLATIONS.
7. UPON COMPLETION OF WORK AT EACH AREA OF WORK, CLEAN AND RESTORE THE SITE. REMOVE ALL RUBBISH AND DEBRIS, VACUUM ALL AREAS AFFECTED BY CONSTRUCTION, REMOVE ALL BARRICADES AND ENCLOSURES, PERFORM A FINAL CLEANING OF ALL WORK TO THE SATISFACTION OF PHILAPORT'S PROJECT MANAGER.

NOTES:

1. STAGING AREA: PHILAPORT SHALL PROVIDE AREA FOR CONTRACTORS' STAGING. EXACT LOCATION TO BE COORDINATED WITH PHILAPORT PROJECT MANAGER.
2. ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE REMOVED FROM SITE DAILY.
3. MINIMAL INTERRUPTION OF SHOP ACTIVITY: THE CONTRACTOR IS REMINDED THAT THE BUILDING IS AN ACTIVE FACILITY. THE CONTRACTOR IS REQUIRED TO COORDINATE ALL AREAS OF WORK WITH THE ASSIGNED REPRESENTATIVE OF PHILAPORT. THE CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL ADDRESS THE SEQUENCING OF THE FIRE SUPPRESSION AND DETECTION SYSTEMS' REPLACEMENT CONSTRUCTION.
4. PROTECTION OF CONTRACTORS' PERSONNEL: THE CONTRACTOR SHALL PROVIDE APPROPRIATE AND ADEQUATE SAFETY PROTECTION FOR ITS EMPLOYEES AND REQUIRE THE SAME FROM ITS SUBCONTRACTORS.
5. PROTECTION OF BUILDING INTERIOR AND PHILAPORT PERSONNEL: THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO THE BUILDING INTERIORS, EQUIPMENT, AND PERSONNEL THROUGH THE USE OF ROOF TRUSS SUPPORTED PLANKING, NETTING, OR OTHER MATERIAL SYSTEM WHERE APPROPRIATE. THE SYSTEM USED SHALL PROTECT PERSONNEL AND SHOP EQUIPMENT FROM FALLING DEBRIS, MATERIAL, AND EQUIPMENT.

FIREWATCH REQUIREMENTS:

1. IN THE EVENT OF FIRE ALARM AND/OR FIRE SUPPRESSION SYSTEM IMPAIRMENT, FIRE WATCH GUIDELINES SHALL BE IMPLEMENTED AS NOTED BELOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO SCHEDULES THE IMPAIRMENT TO PROVIDE FIRE WATCH.
2. NOTIFY PHILAPORT'S PROJECT MANAGER ONE WEEK IN ADVANCE OF THE IMPAIRMENT AND THE TEMPORARY PRECAUTIONS TO BE TAKEN, INCLUDING THE PROVISION OF A FIRE WATCH. NOTIFY THE PHILADELPHIA FIRE DEPARTMENT OF THE IMPAIRMENT AND THE TEMPORARY PRECAUTION TO BE TAKEN. ALL DETAILS AND PROJECTED TIMES NECESSARY FOR REPAIRS SHALL BE PROVIDED TO THE FIRE DEPARTMENT. NOTIFY PHILAPORT'S PM OF THE IMPAIRMENT AND THE TEMPORARY PRECAUTIONS TO BE TAKEN. ALL DETAILS AND PROJECTED TIMES NECESSARY FOR REPAIRS SHALL BE PROVIDED.
3. PROVIDE A FIRE WATCH, 24 HOURS A DAY IF NECESSARY, UNTIL ALL FIRE PROTECTION SYSTEMS AND FIRE ALARM SYSTEMS HAVE BEEN RESTORED. FIRE WATCH PROTECTION AT ALL LOCATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NFPA STANDARDS, LOCAL AHJ REQUIREMENTS, NFPA 601 GUARD SERVICE IN FIRE LOSS PREVENTION, AND NFPA 602 GUARD OPERATION IN FIRE LOSS PREVENTION AND WHEN APPROVED BY PHILAPORT'S PROJECT MANAGER.
4. FIRE WATCH PERSONNEL SHALL HAVE FORMAL TRAINING IN THE USE OF PORTABLE FIRE EXTINGUISHERS. THIS SHALL INCLUDE PRACTICAL LIVE FIRE TRAINING.
5. QUALIFIED FIRE WATCHERS SHALL BE PROVIDED FOR EACH BUILDING/AREA. FIRE WATCH PERSONNEL SHALL BE FAMILIAR WITH A RELIABLE NOTIFICATION SYSTEM (I.E. RADIO, TELEPHONE, PULL BOX). THEY SHALL BE INSTRUCTED TO NOTIFY THE BUILDING OPERATIONS IMMEDIATELY OF A POTENTIAL FIRE EMERGENCY. FIRE WATCH PERSONNEL SHALL HAVE NO DUTIES OTHER THAN THAT OF FIRE WATCH. IF A SECURITY WATCH IS NECESSARY, ADDITIONAL PERSONNEL SHALL BE PROVIDED.
6. FIRE WATCH PERSONNEL SHALL MAKE ROUNDS AT PREDETERMINED INTERVALS, NOT TO EXCEED THIRTY MINUTES APART. VERIFICATION THAT PATROLS ARE MADE OF ALL AREAS SHALL BE RECORDED IN A LOGBOOK.
7. FIRE WATCH PERSONNEL SHALL BE FAMILIAR WITH THE SITE, SYSTEMS, HAZARDS AND EXPOSURES. EACH WATCH SHALL BE FAMILIARIZED AS SHIFT CHANGES OCCUR.
8. FIRE WATCH PERSONNEL SHALL BE AWARE OF THE LIMITATIONS OF FIXED AND PORTABLE EXTINGUISHING EQUIPMENT.
9. FIRE WATCHES AND CONTRACT SERVICE FOR FIRE WATCHES SHALL COMPLY WITH THE APPLICABLE SECTION OF NFPA 601-SECURITY SERVICES IN FIRE LOSS PREVENTION.
10. ALL HOT WORK OR SPARK-PRODUCING OPERATIONS IN THE BUILDING(S) SHALL BE PROHIBITED UNTIL ALL FIRE PROTECTION SYSTEMS HAVE BEEN RESTORED.
11. ONCE FIRE SUPPRESSION SYSTEM RESTORATION IS COMPLETE, SUBSEQUENTLY CANCELING THE NEED FOR FIRE WATCH, THE CONTRACTOR SHALL NOTIFY BUILDING OPERATIONS AND THE PHILAPORT PROJECT MANAGER IMMEDIATELY.

KEY PLAN

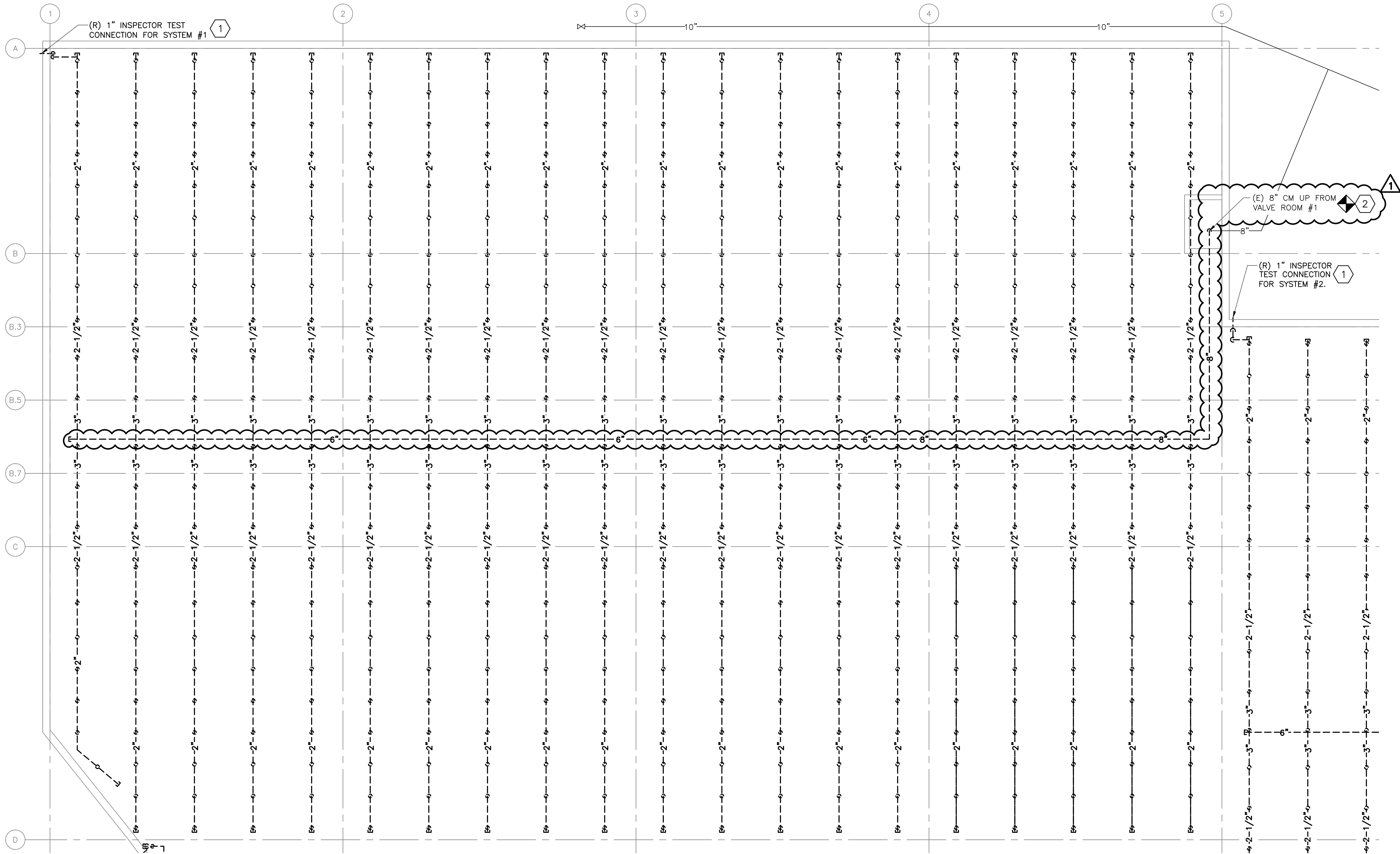
1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision

Project Title:
PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:
OVERALL PLAN
& PHASING

Date: 7/15/2022
Scale: AS NOTED
Drawn: JJS
Checked: PDK
Job No: 2020-028

Drawing No: FP-0.1



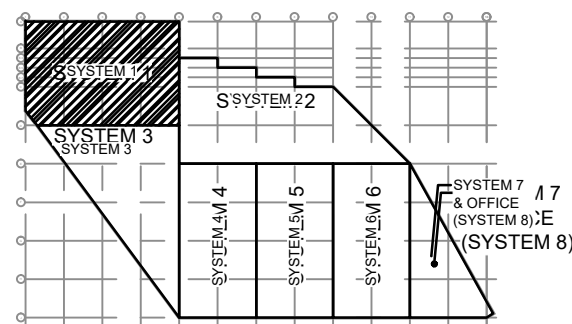
1 GROUND FLOOR - SYSTEM #1 DEMOLITION
3/32" = 1'-0"

NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 AFTER REMOVAL, MAINTAIN EXISTING WALL OPENING FOR NEW INSPECTOR'S TEST CONNECTION.
- 2 DISCONNECT DRY SPRINKLER PIPE AT THE TOP OF THE RISER. PREPARE RISER FOR CONNECTION TO NEW PIPE.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No.	Date	Revision
1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID

Burns
BURNS ENGINEERING, INC. | 215 978-7780
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #1
REMOVALS

Date: 7/15/2022

Scale: AS NOTED

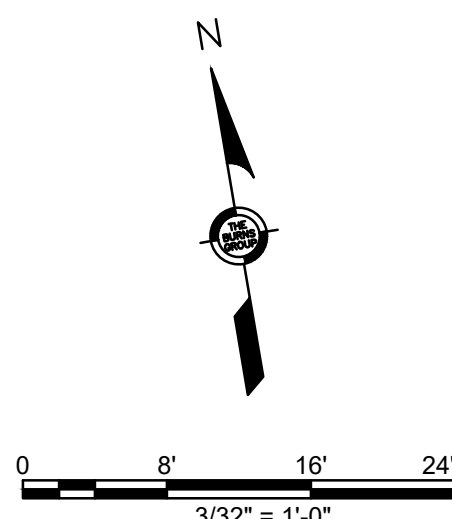
Drawn: JJS

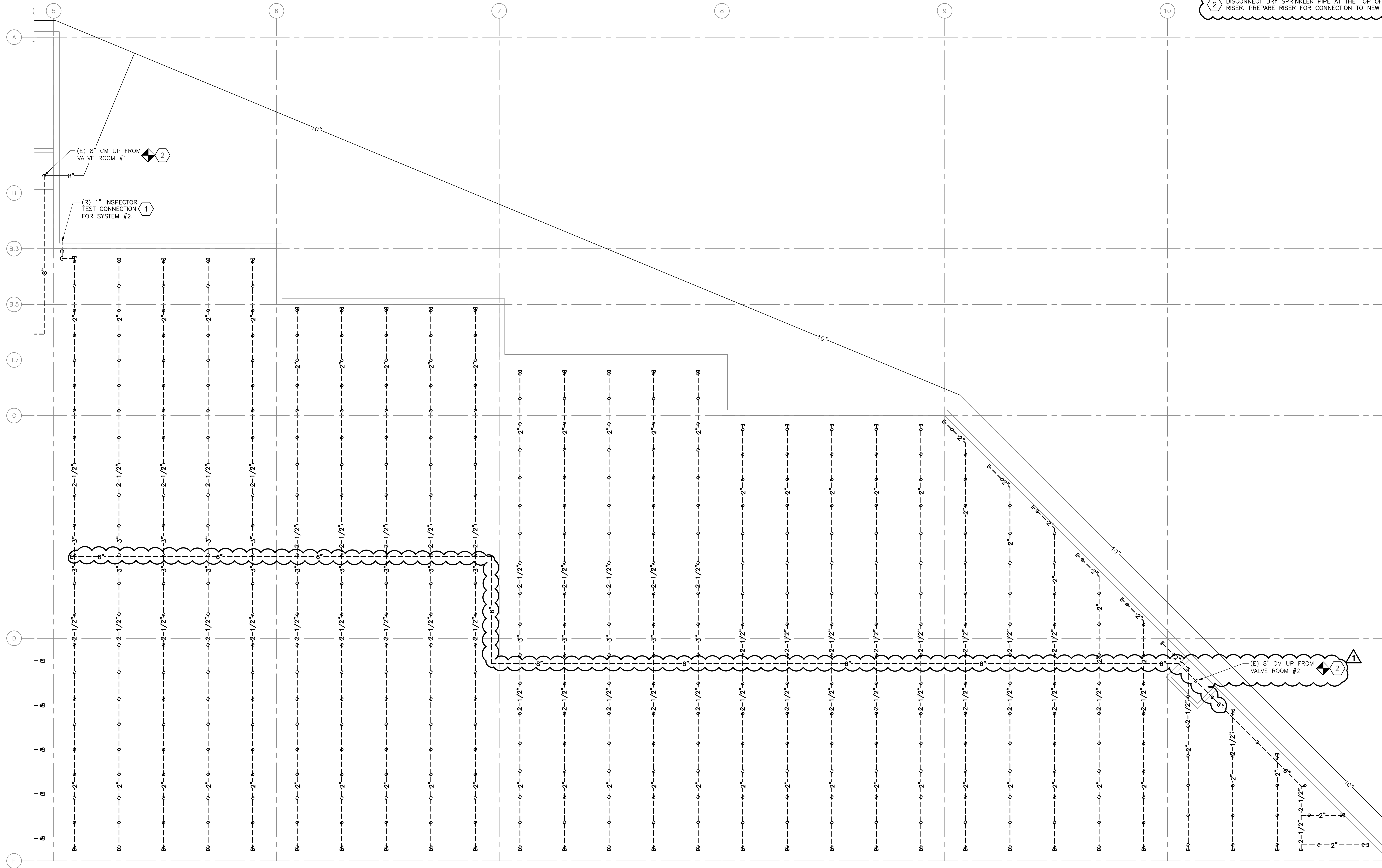
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Job No: 2020-028

Drawing No:

FPD-1





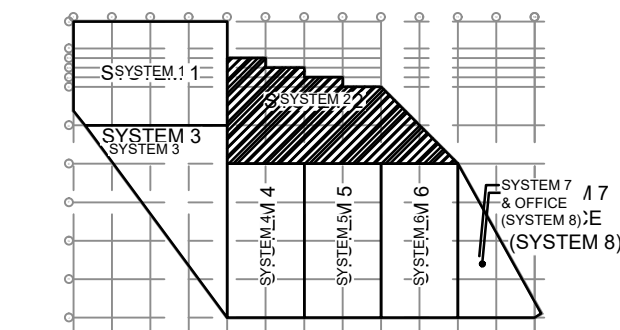
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3/32" = 1'-0"

NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 AFTER REMOVAL, MAINTAIN EXISTING WALL OPENING FOR NEW INSPECTOR'S TEST CONNECTION.
- 2 DISCONNECT DRY SPRINKLER PIPE AT THE TOP OF THE RISER. PREPARE RISER FOR CONNECTION TO NEW PIPE.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Burns
BURNS ENGINEERING, INC. | 215.878.7780
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #2
REMOVALS

Date: 7/15/2022

Scale: AS NOTED

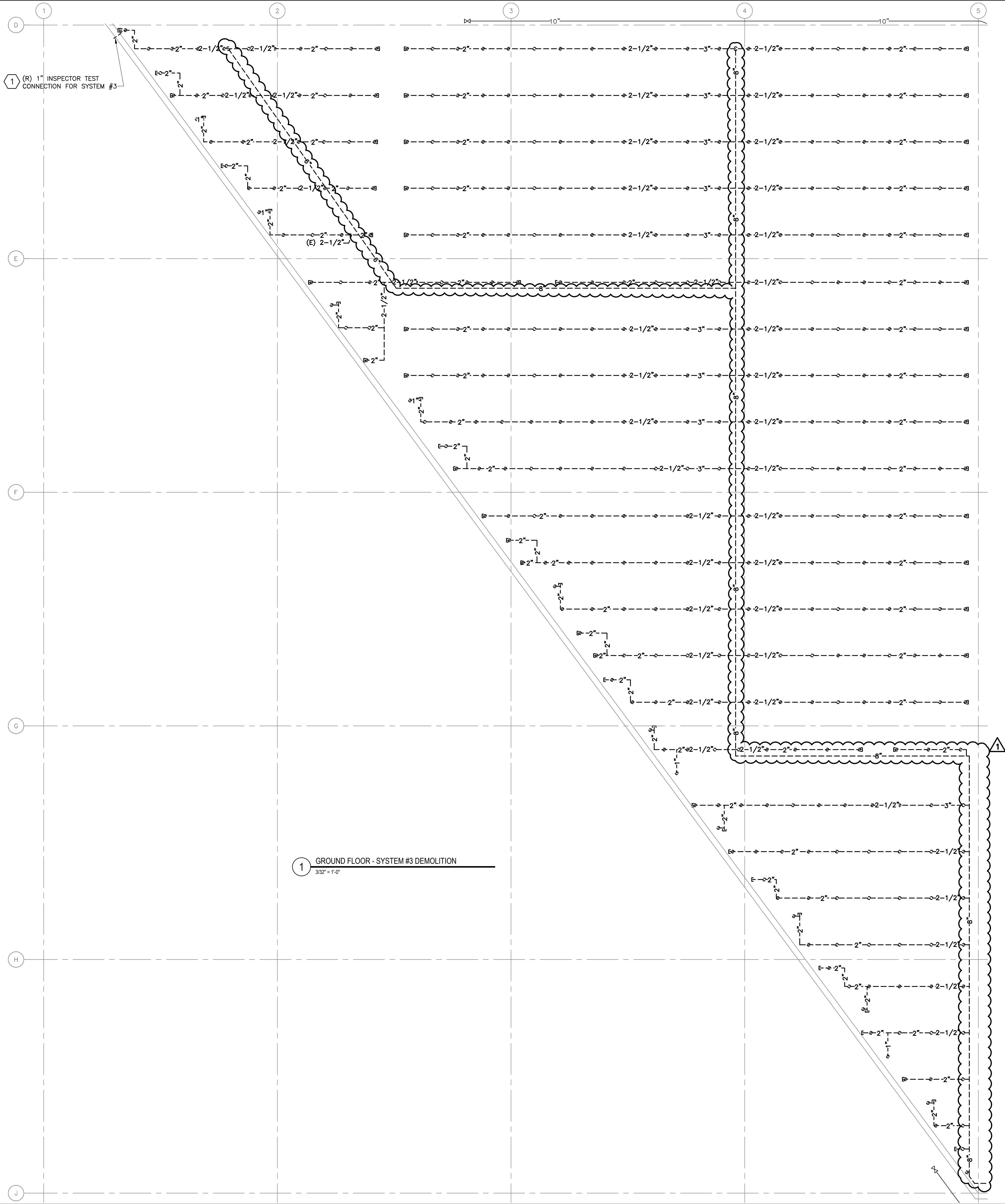
Drawn: JJS

Checked: PDK

Job No: 2020-028

Drawing No:

FPD-2

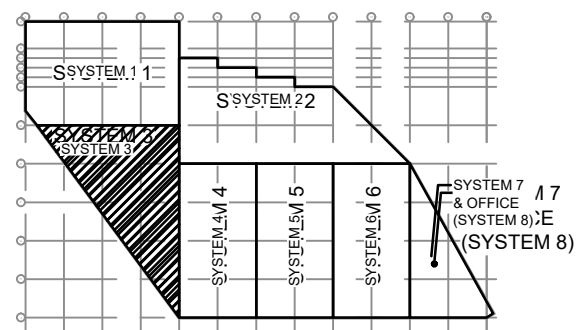


NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 AFTER REMOVAL, MAINTAIN EXISTING WALL OPENING FOR NEW INSPECTOR'S TEST CONNECTION.
- 2 DISCONNECT DRY SPRINKLER PIPE AT THE TOP OF THE RISER. PREPARE RISER FOR CONNECTION TO NEW PIPE.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Burns

BURNS ENGINEERING, INC. | 215.578.7700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #3
REMOVALS

Date: 7/15/2022

Scale: AS NOTED

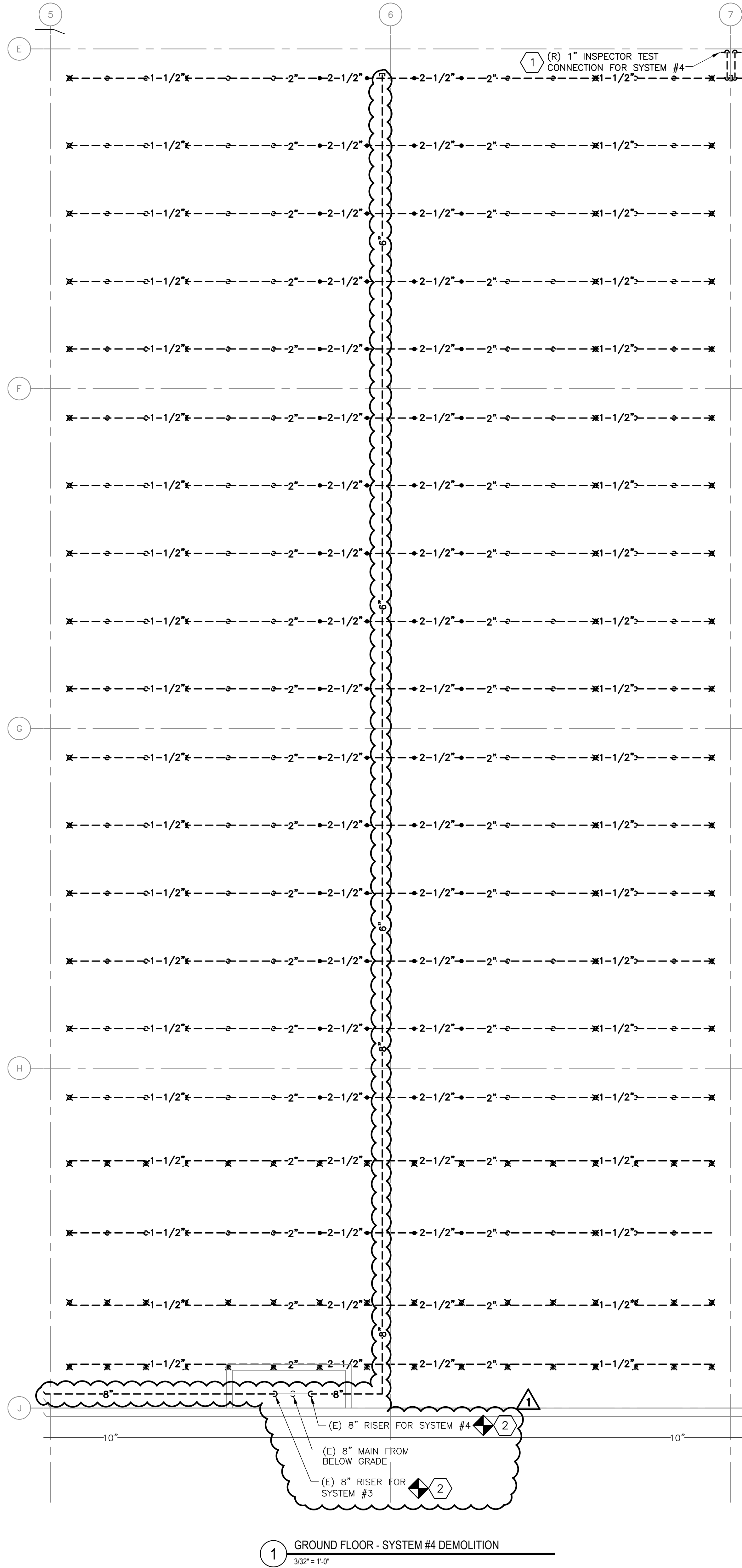
Drawn: JJS

Checked: PDK

Job No: 2020-028

Drawing No:

FPD-3

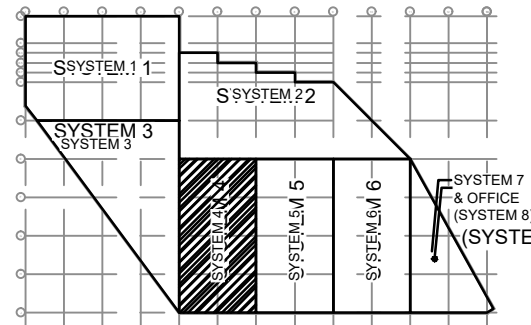


NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 AFTER REMOVAL, MAINTAIN EXISTING WALL OPENING FOR NEW INSPECTOR'S TEST CONNECTION.
- 2 DISCONNECT DRY SPRINKLER PIPE AT THE TOP OF THE RISER. PREPARE RISER FOR CONNECTION TO NEW PIPE.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Burns
BURNS ENGINEERING, INC. | 215.579.7700
TWO COMMERCE SQUARES, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #4
REMOVALS

Date: 7/15/2022

Scale: AS NOTED

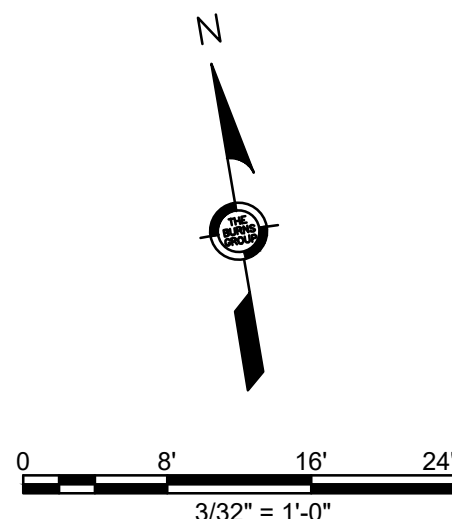
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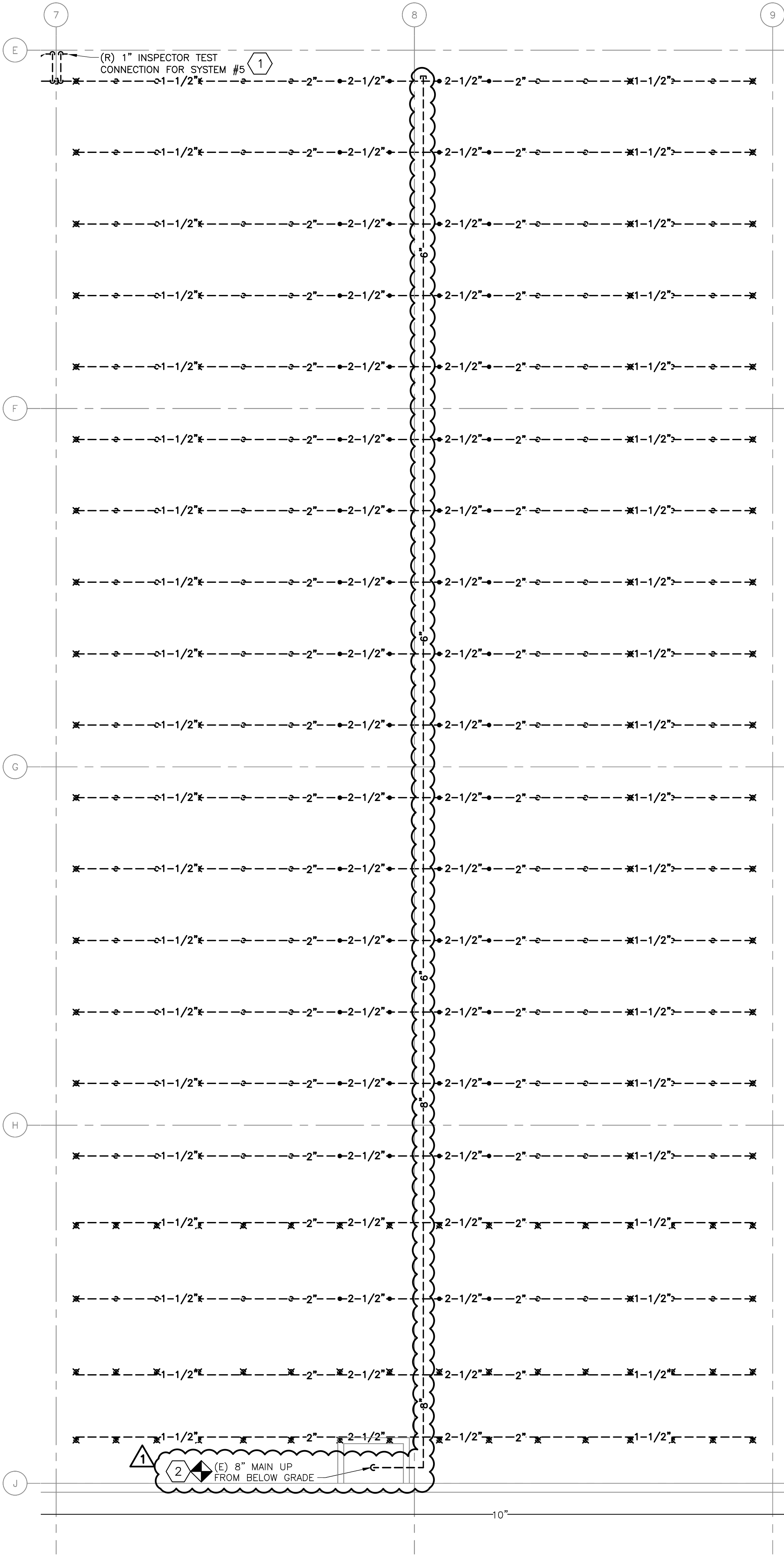
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Job No: 2020-028

Drawing No:

FPD-4





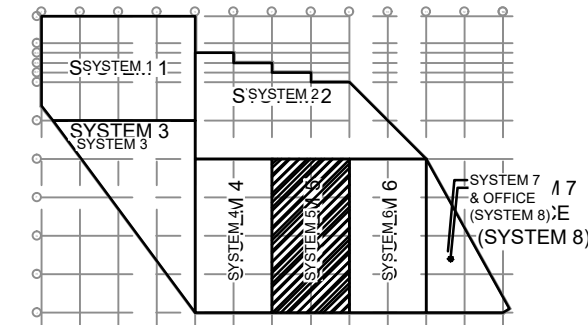
1 GROUND FLOOR - SYSTEM #5 DEMOLITION
3/32" = 1'-0"

NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 AFTER REMOVAL, MAINTAIN EXISTING WALL OPENING FOR NEW INSPECTOR'S TEST CONNECTION.
- 2 DISCONNECT DRY SPRINKLER PIPE AT THE TOP OF THE RISER. PREPARE RISER FOR CONNECTION TO NEW PIPE.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Burns

BURNS ENGINEERING, INC. | 215.879.7700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #5
REMOVALS

Date: 7/15/2022

Scale: AS NOTED

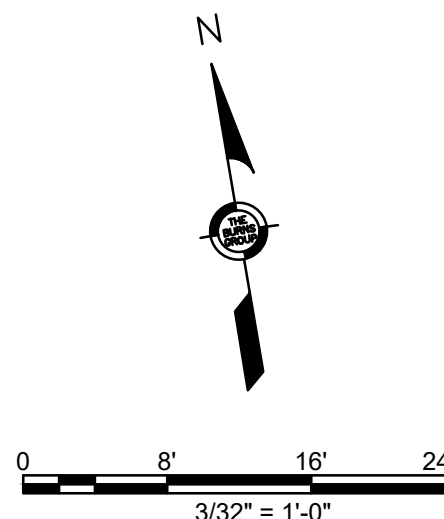
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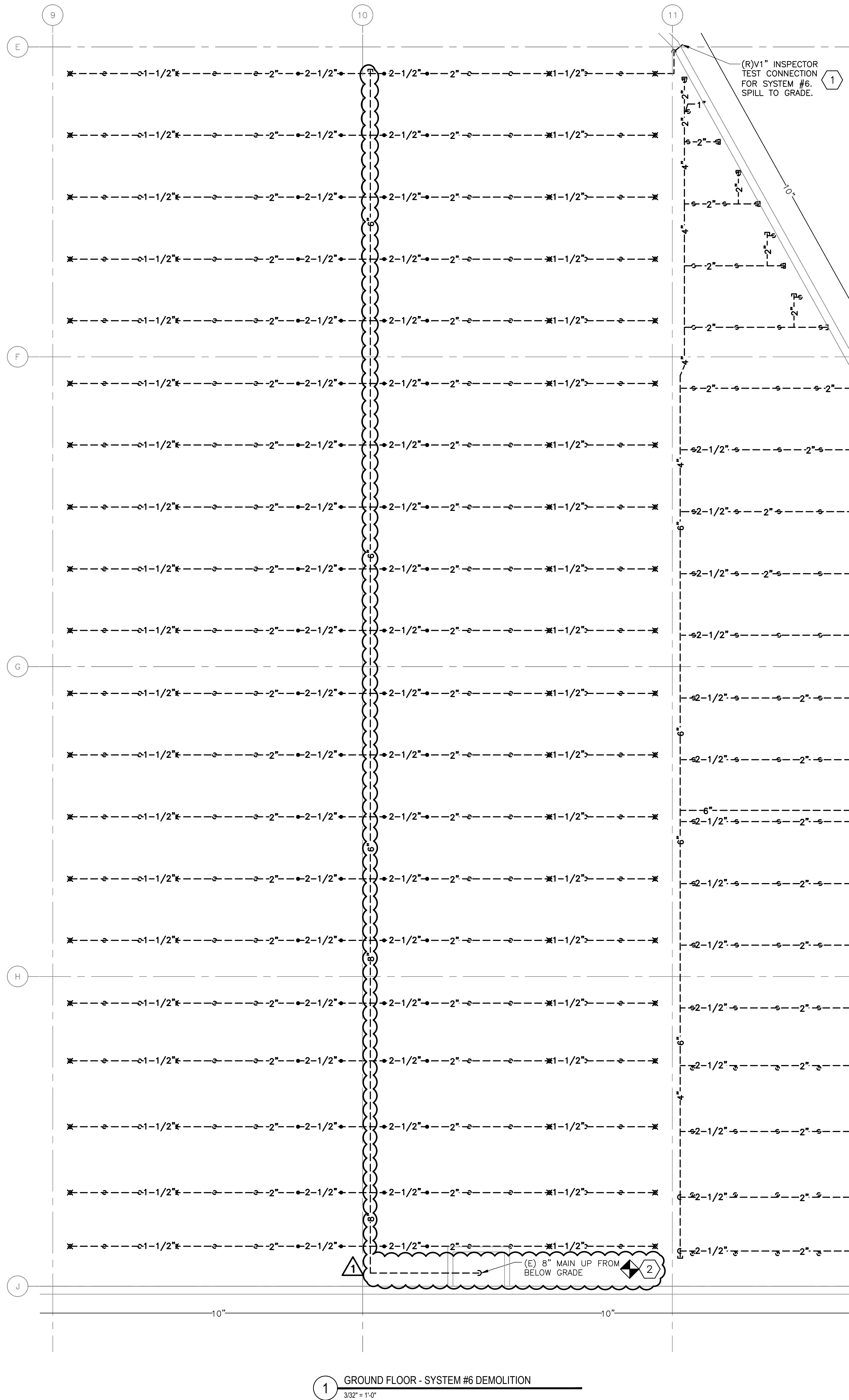
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Job No: 2020-028

Drawing No:

FPD-5



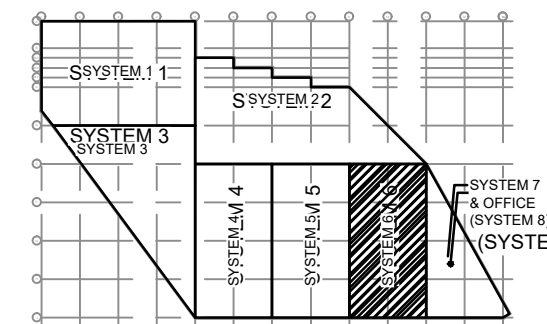


NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 AFTER REMOVAL, MAINTAIN EXISTING WALL OPENING FOR NEW INSPECTOR'S TEST CONNECTION.
- 2 DISCONNECT DRY SPRINKLER PIPE AT THE TOP OF THE RISER. PREPARE RISER FOR CONNECTION TO NEW PIPE.

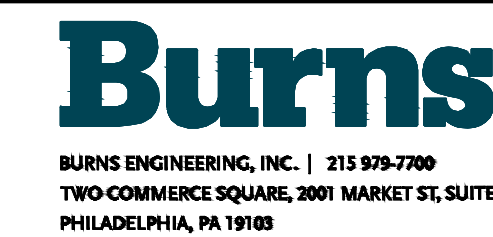


KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision



Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #6
REMOVALS

Date: 7/15/2022

Scale: AS NOTED

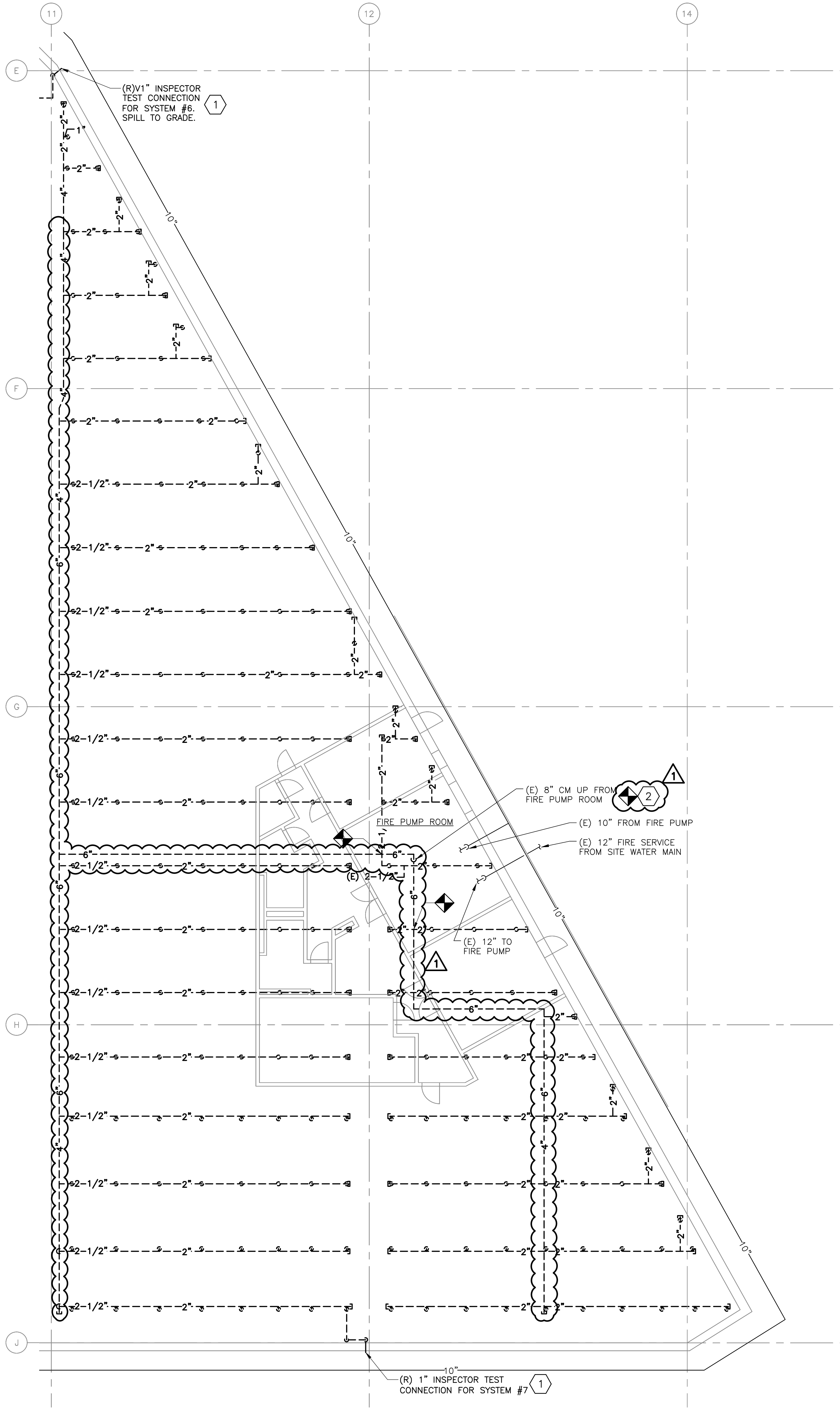
Drawn: JJS

Checked: PDK

Job No: 2020-028

Drawing No:

FPD-6



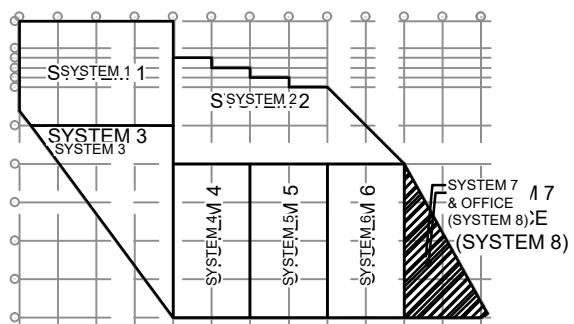
1 GROUND FLOOR - SYSTEM #7 DEMOLITION
3/32" = 1'-0"

NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 AFTER REMOVAL, MAINTAIN EXISTING WALL OPENING FOR NEW INSPECTOR'S TEST CONNECTION.
- 2 DISCONNECT DRY SPRINKLER PIPE AT THE TOP OF THE RISER. PREPARE RISER FOR CONNECTION TO NEW PIPE.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #7
REMOVALS

Date: 7/15/2022

Scale: AS NOTED

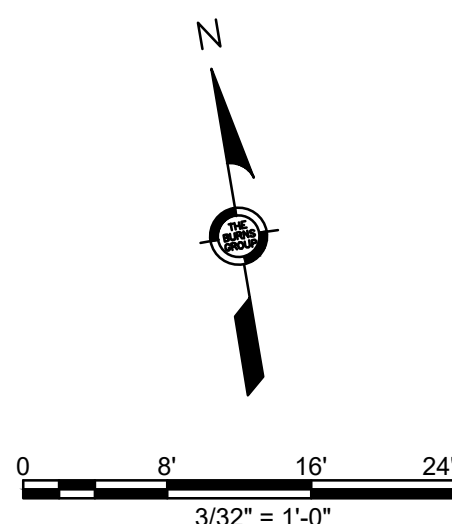
Drawn: JJS

Checked: PDK

Job No: 2020-028

Drawing No:

FPD-7



KEY PLAN

1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision

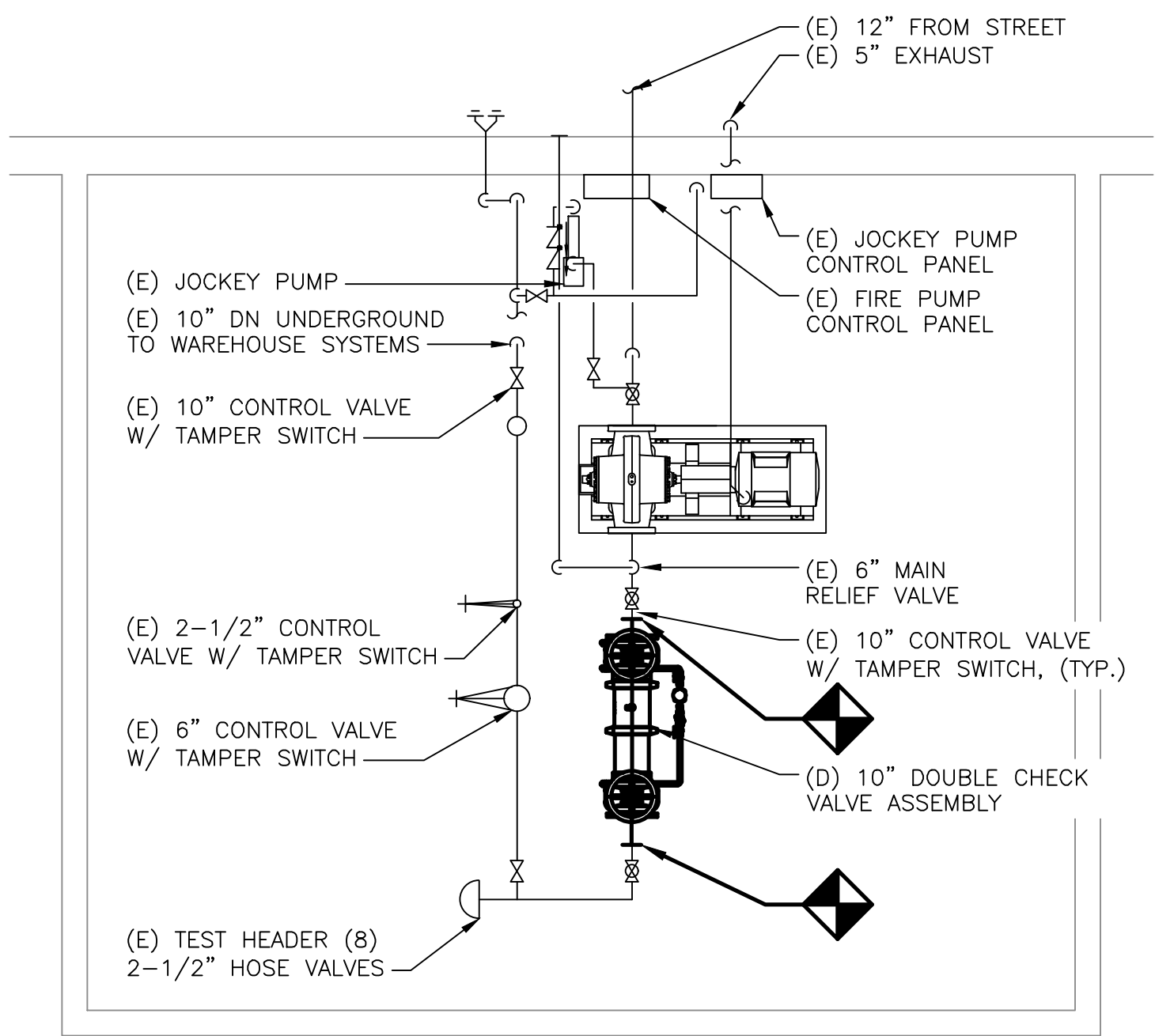
Burns
BURNS ENGINEERING, INC. | 215 879-2700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:
**PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES**

Drawing Title:
**ENLARGED
FLOOR PLANS -
DEMOLITION**

Date: 7/15/2022
Scale: AS NOTED
Drawn: TCG
Checked: PDK
Job No: 2020-028
Drawing No:

FPD-8



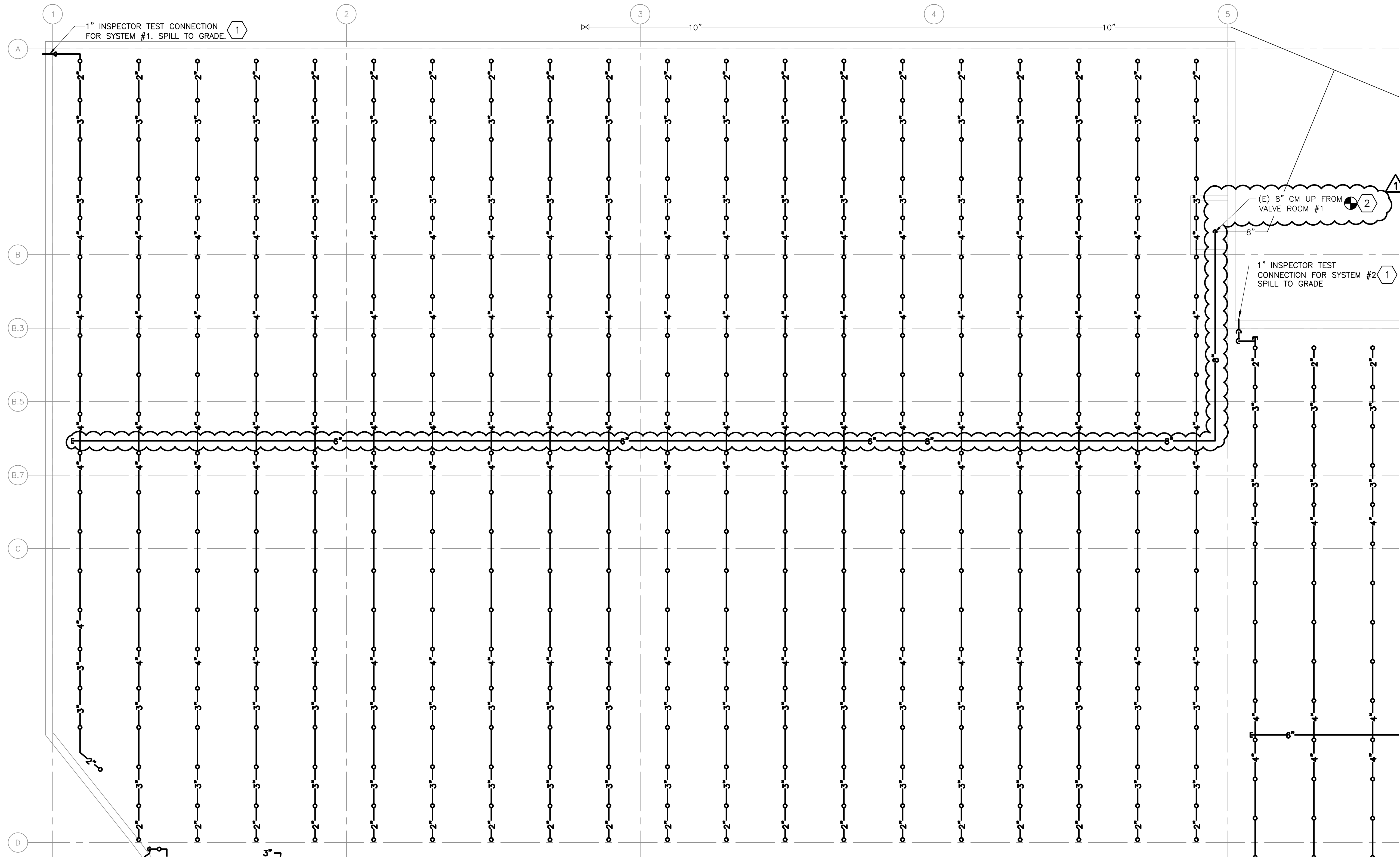
1 ENLARGED FLOOR PLAN - FIRE PUMP ROOM DEMO
1/4" = 1'-0"

NOTES:

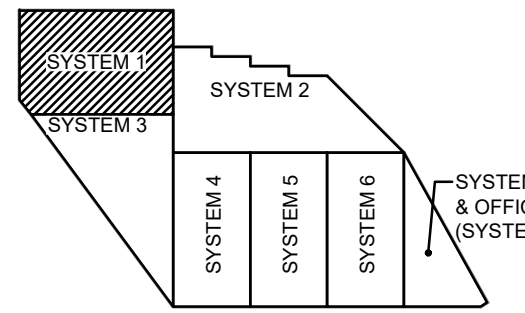
1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 RE-USE EXISTING WALL OPENING FROM PREVIOUS INSPECTOR'S TEST CONNECTION.
2 CONNECT NEW DRY SPRINKLER PIPE TO THE EXISTING DRY SPRINKLER PIPE AT THE TOP OF THE RISER.



1 GROUND FLOOR - SYSTEM #1 NEW WORK
3/32" = 1'-0"



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Burns
BURNS ENGINEERING, INC. | 215 878-2780
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #1

Date: 7/15/2022

Scale: AS NOTED

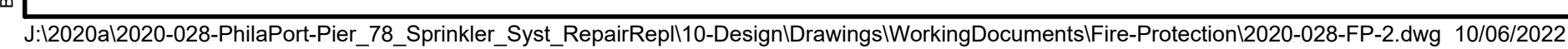
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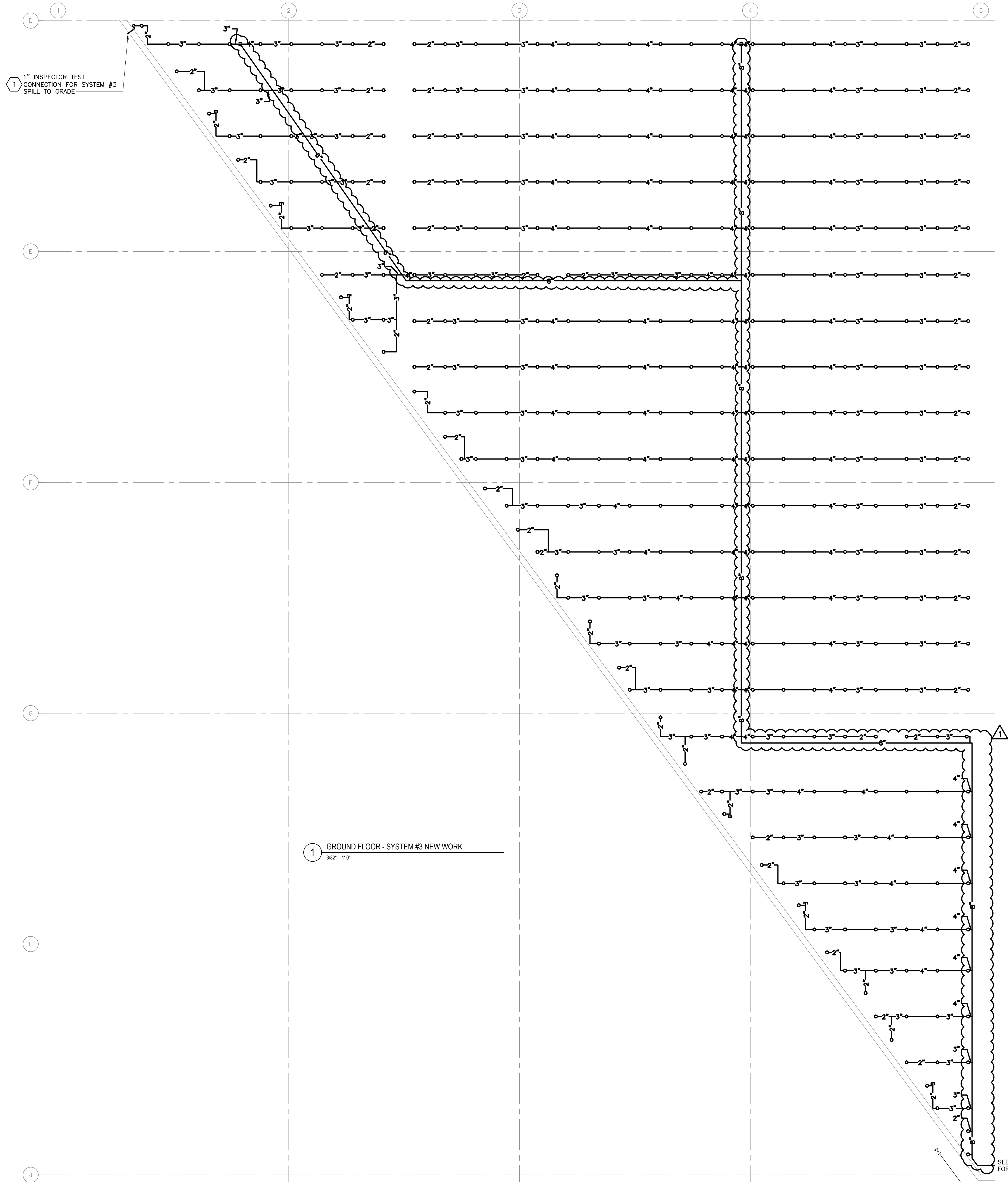
Checked: PDK

Job No: 2020-028

Drawing No:

FP-1



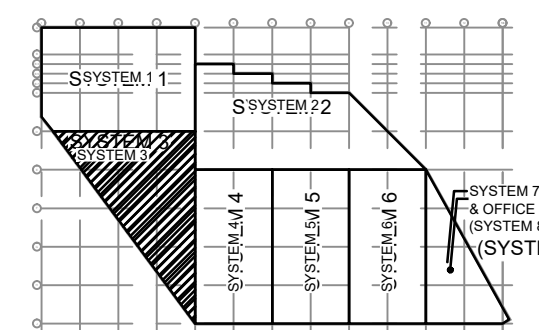


NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 RE-USE EXISTING WALL OPENING FROM PREVIOUS INSPECTOR'S TEST CONNECTION.
- 2 CONNECT NEW DRY SPRINKLER PIPE TO THE EXISTING DRY SPRINKLER PIPE AT THE TOP OF THE RISER.



KEY PLAN

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BURNS ENGINEERING, INC. | 215 878-7780
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #3

Date: 7/15/2022

Scale: AS NOTED

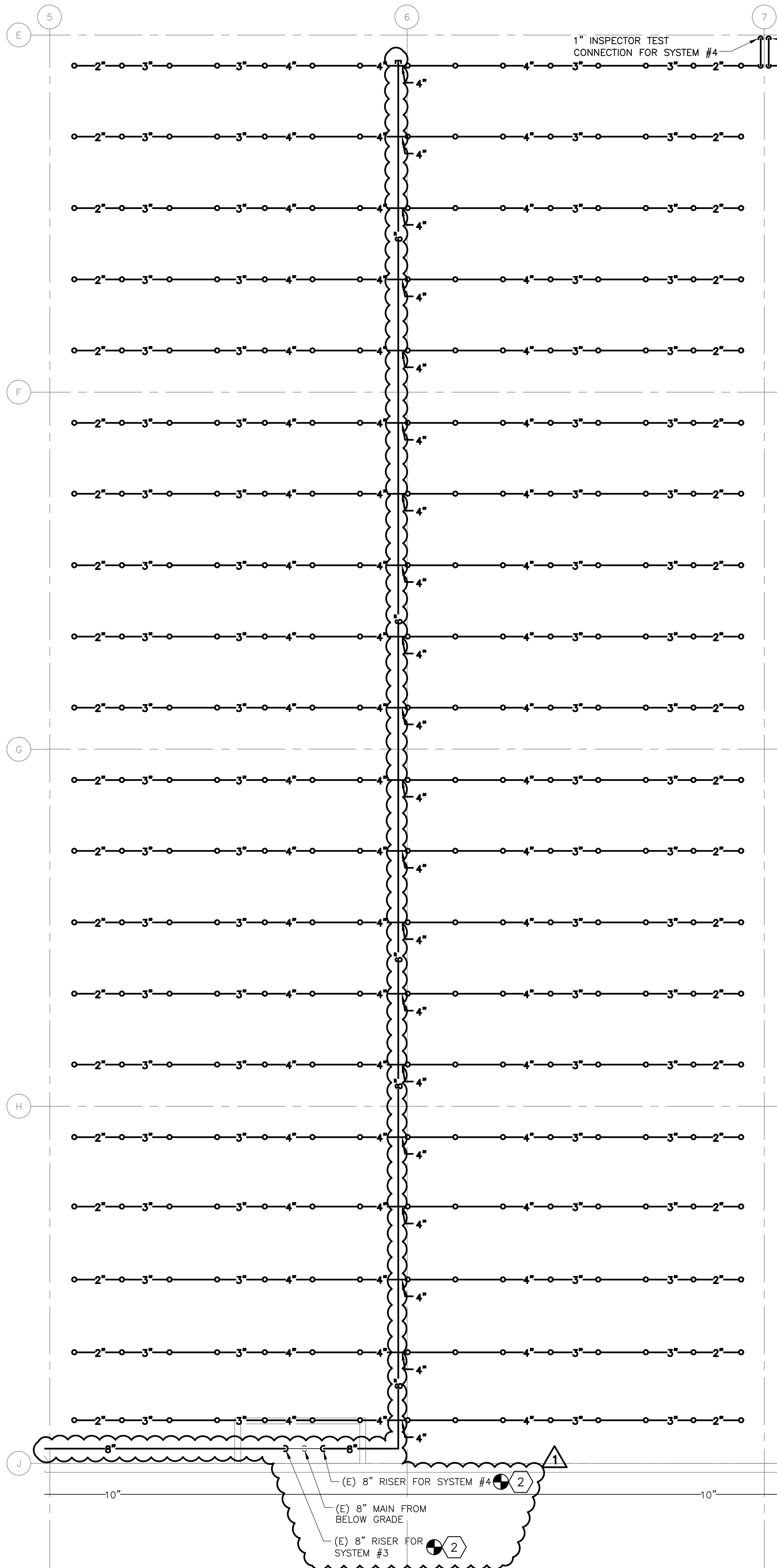
Drawn: JJS

Checked: PDK

Job No: 2020-028

Drawing No:

FP-3



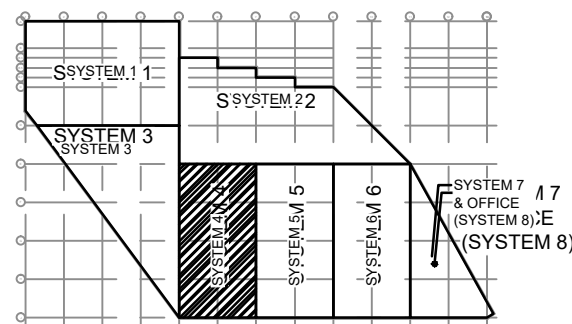
1 GROUND FLOOR - SYSTEM #4 NEW WORK
3/32" = 1'-0"

NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 RE-USE EXISTING WALL OPENING FROM PREVIOUS INSPECTOR'S TEST CONNECTION.
- 2 CONNECT NEW DRY SPRINKLER PIPE TO THE EXISTING DRY SPRINKLER PIPE AT THE TOP OF THE RISER.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Burns
BURNS ENGINEERING, INC. | 215.579.7700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #4

Date: 7/15/2022

Scale: AS NOTED

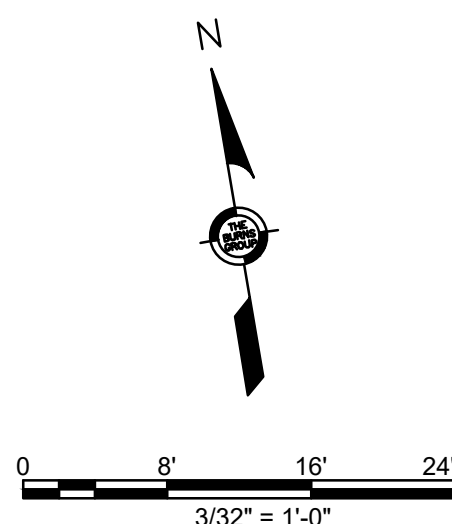
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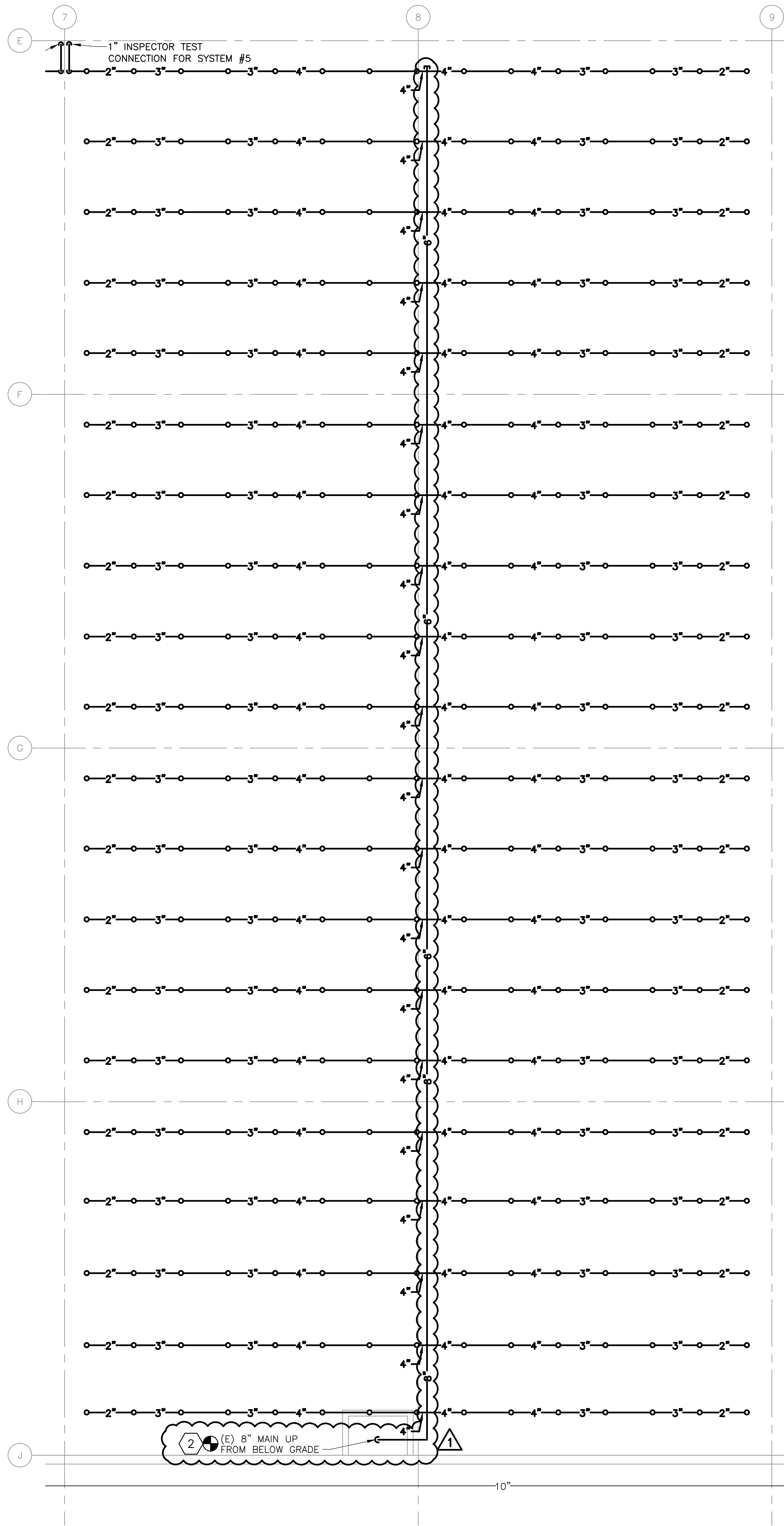
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Job No: 2020-028

Drawing No:

FP-4





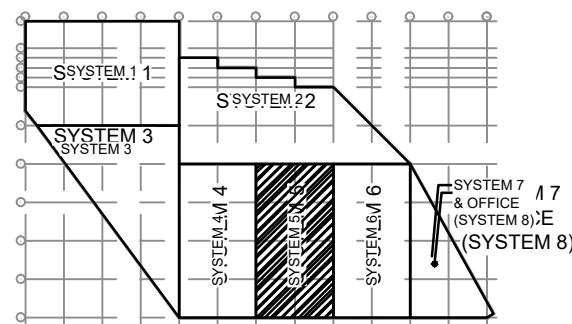
1 GROUND FLOOR - SYSTEM #5 NEW WORK
3/32" = 1'-0"

NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 RE-USE EXISTING WALL OPENING FROM PREVIOUS INSPECTOR'S TEST CONNECTION.
- 2 CONNECT NEW DRY SPRINKLER PIPE TO THE EXISTING DRY SPRINKLER PIPE AT THE TOP OF THE RISER.



KEY PLAN

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BURNS ENGINEERING, INC. | 215.579.7700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #5

Date: 7/15/2022

Scale: AS NOTED

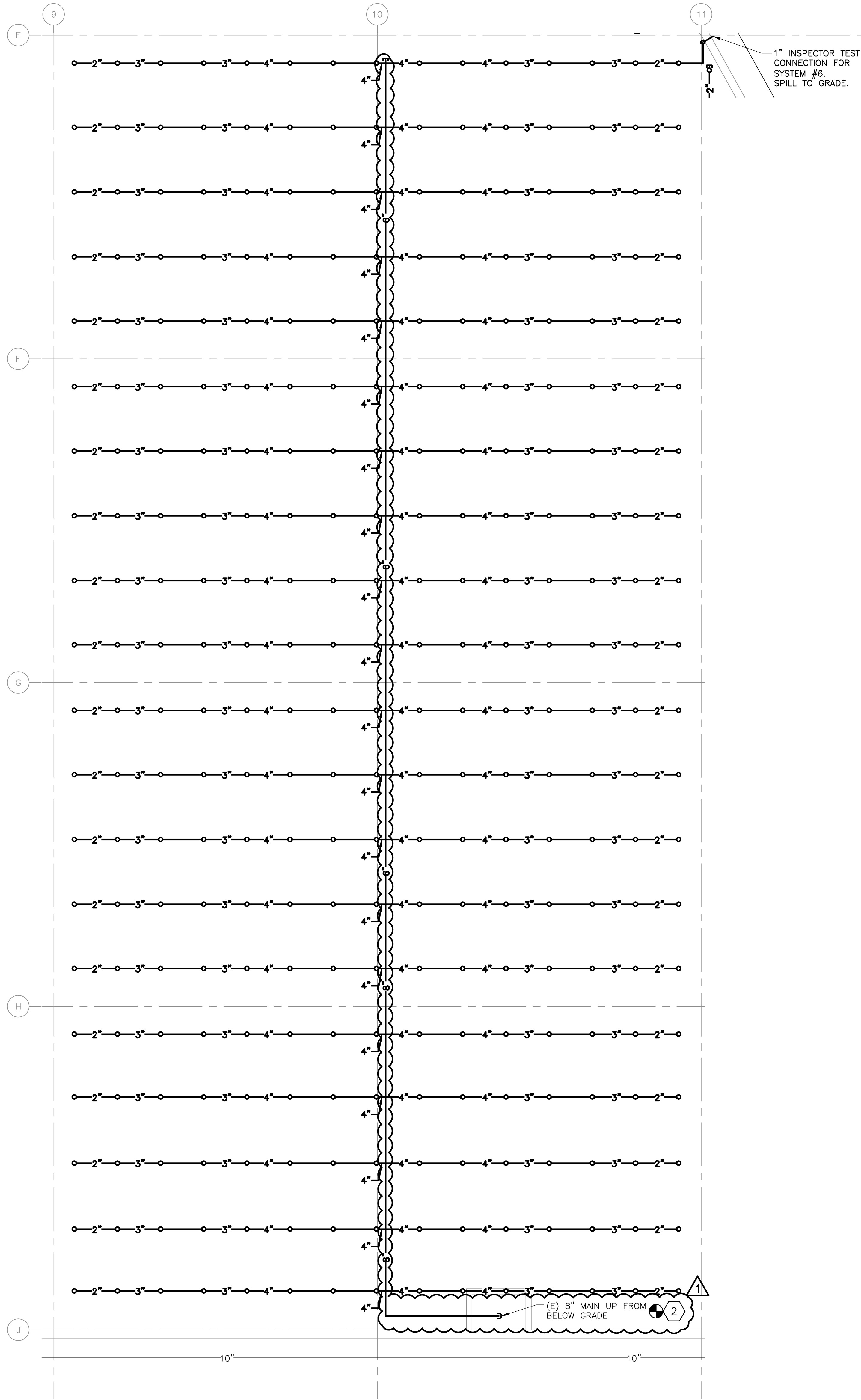
Drawn: JJS

Checked: PDK

Job No: 2020-028

Drawing No:

FP-5



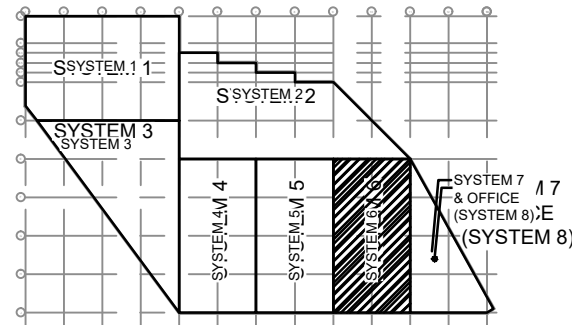
1 GROUND FLOOR - SYSTEM #6 NEW WORK
3/32" = 1'-0"

NOTES:

1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 RE-USE EXISTING WALL OPENING FROM PREVIOUS INSPECTOR'S TEST CONNECTION.
- 2 CONNECT NEW DRY SPRINKLER PIPE TO THE EXISTING DRY SPRINKLER PIPE AT THE TOP OF THE RISER.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No.	Date	Revision
1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID

Burns

BURNS ENGINEERING, INC. | 215.579.7700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #6

Date: 7/15/2022

Scale: AS NOTED

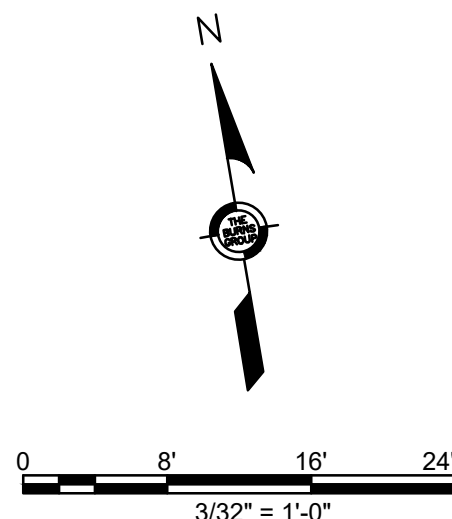
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Checked: PDK

Job No: 2020-028

Drawing No:

FP-6



NOTES:

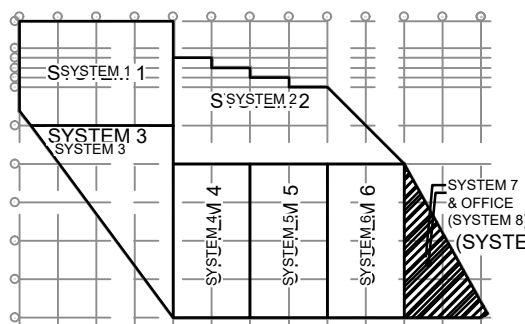
1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 RE-USE EXISTING WALL OPENING FROM PREVIOUS INSPECTOR'S TEST CONNECTION.
2 CONNECT NEW DRY SPRINKLER PIPE TO THE EXISTING DRY SPRINKLER PIPE AT THE TOP OF THE RISER.

SPECIALTY SCHEDULE

TAG	DESCRIPTION	CHARACTERISTICS	BASIS OF DESIGN		SERVICE	APPURTENANCES	NOTES
			MANUFACTURER	MODEL NUMBER			
BFP-1	BACKFLOW PREVENTER	LEAD FREE, 304 STAINLESS STEEL SCHEDULE 40 HOUSING, REDUCED PRESSURE BACKFLOW PREVENTION DEVICE	WATTS	C500-BFG	FIRE PROTECTION	GATE VALVES, SPLASH GUARD, TAMPER SWITCH	LOCATED IN FIRE PUMP ROOM. REFER TO DWG 1/FP-8 FOR DETAIL.



KEY PLAN

1 10/6/22 ADDENDUM #2

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No. Date Revision

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BURNS ENGINEERING, INC. | 215 570-7700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN - SYSTEM #7

Date: 7/15/2022

Scale: AS NOTED

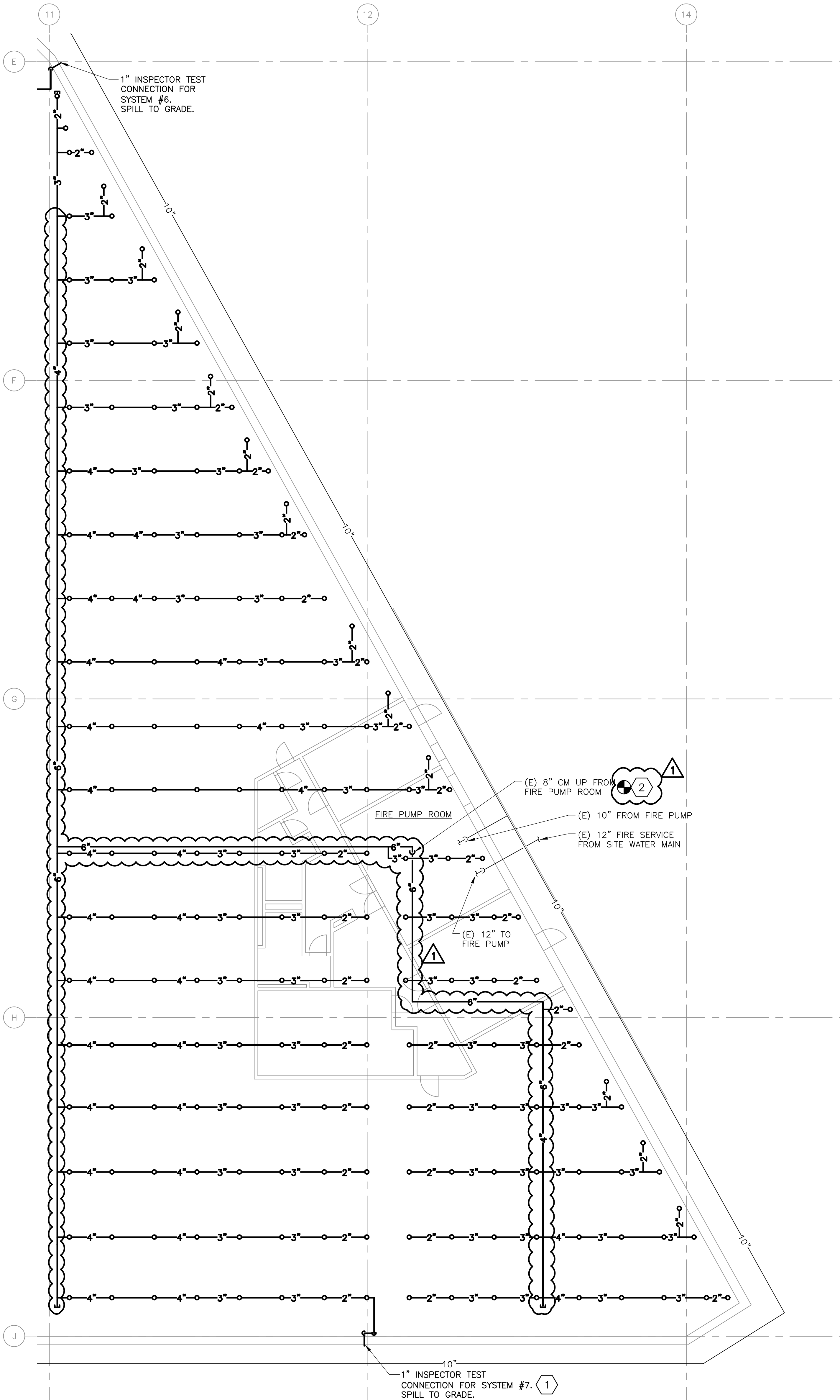
Drawn: JJS

Checked: PDK

Job No: 2020-028

Drawing No:

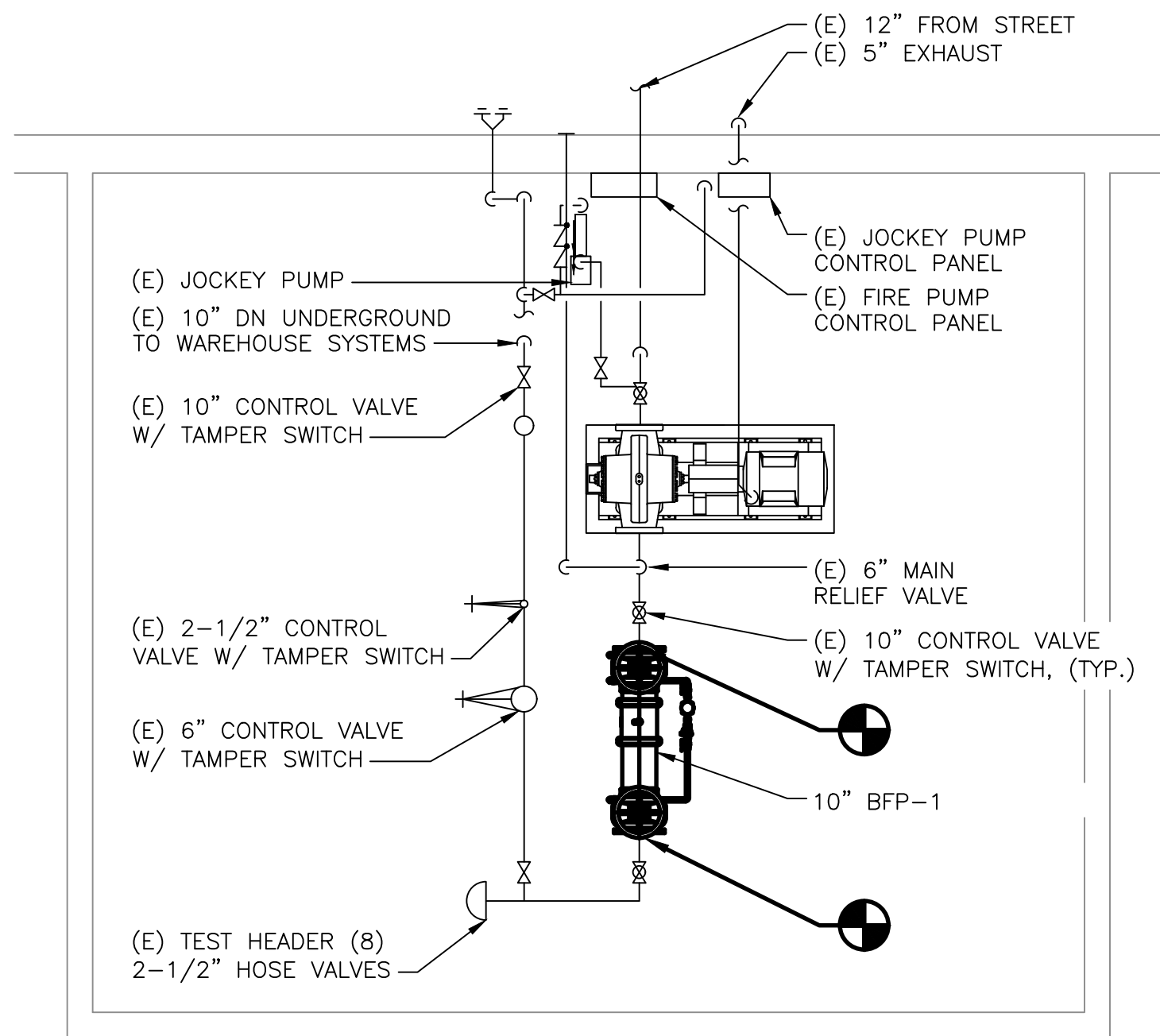
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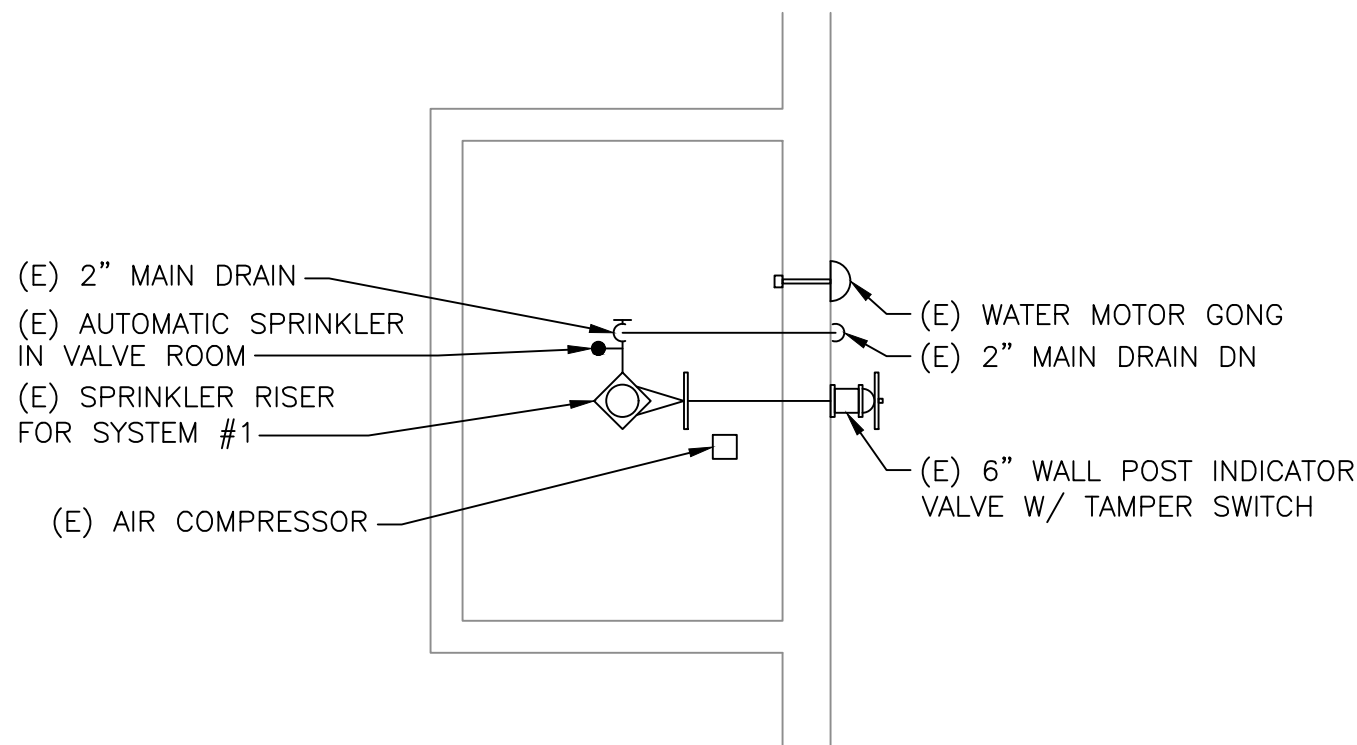
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3/32" = 1'-0"

NOTES:

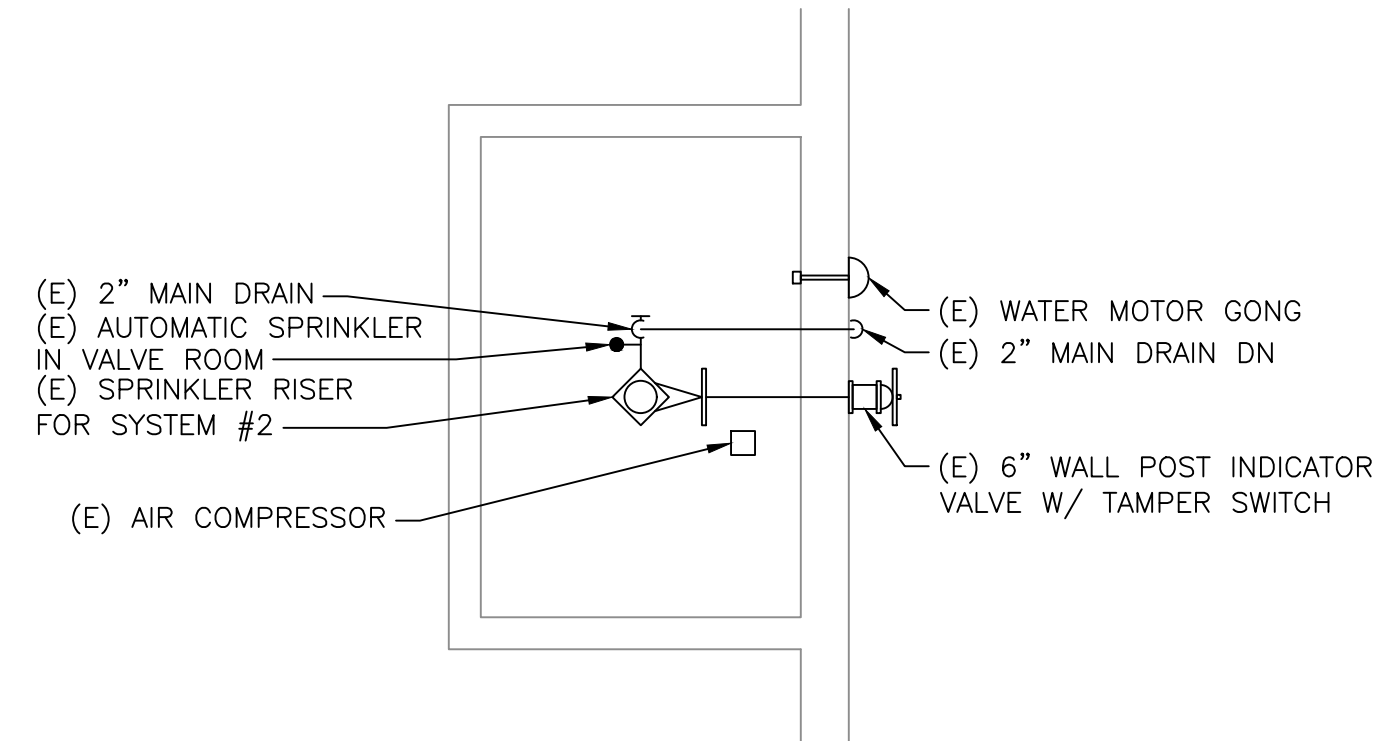
1. REFER TO FP-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.



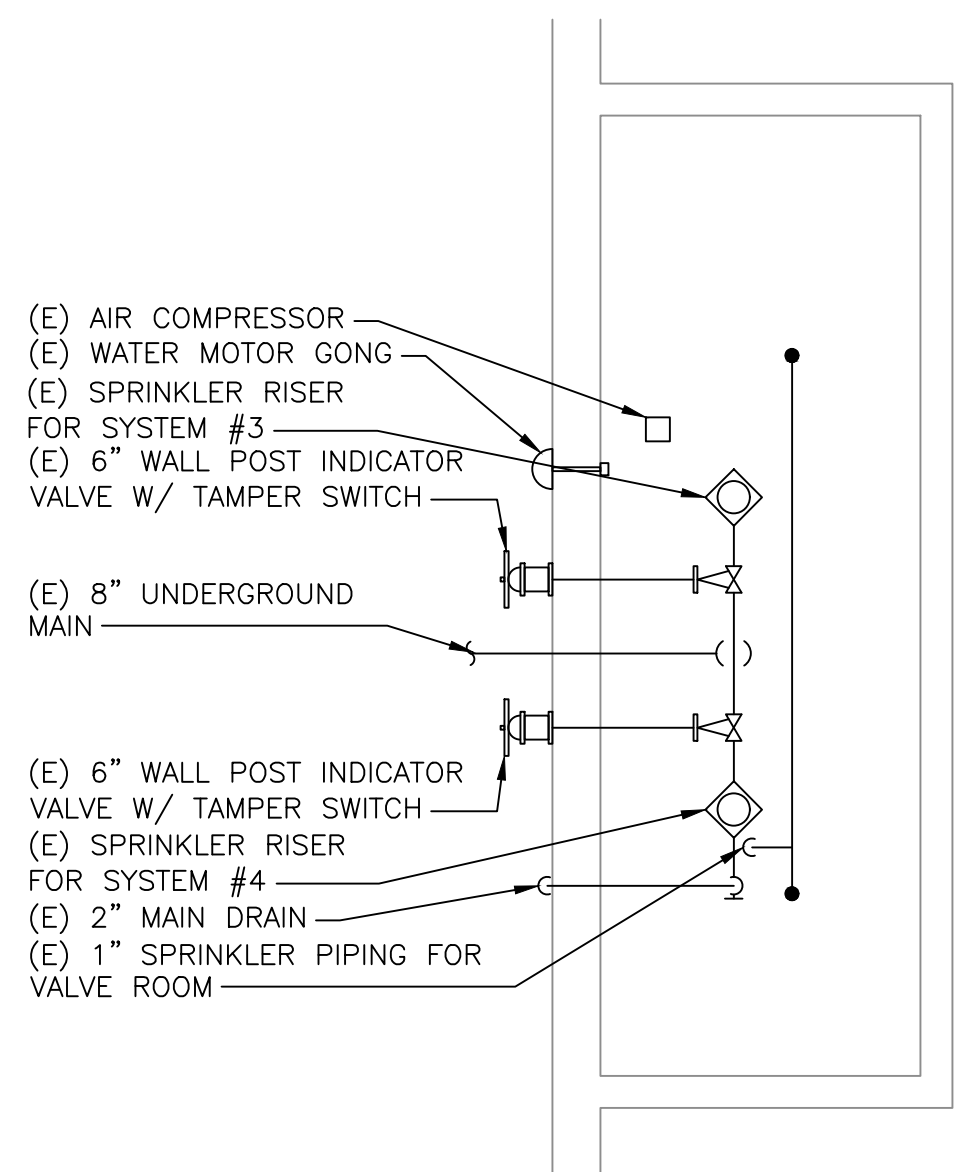
1 ENLARGED FLOOR PLAN - FIRE PUMP ROOM NEW WORK
1/4" = 1'-0"



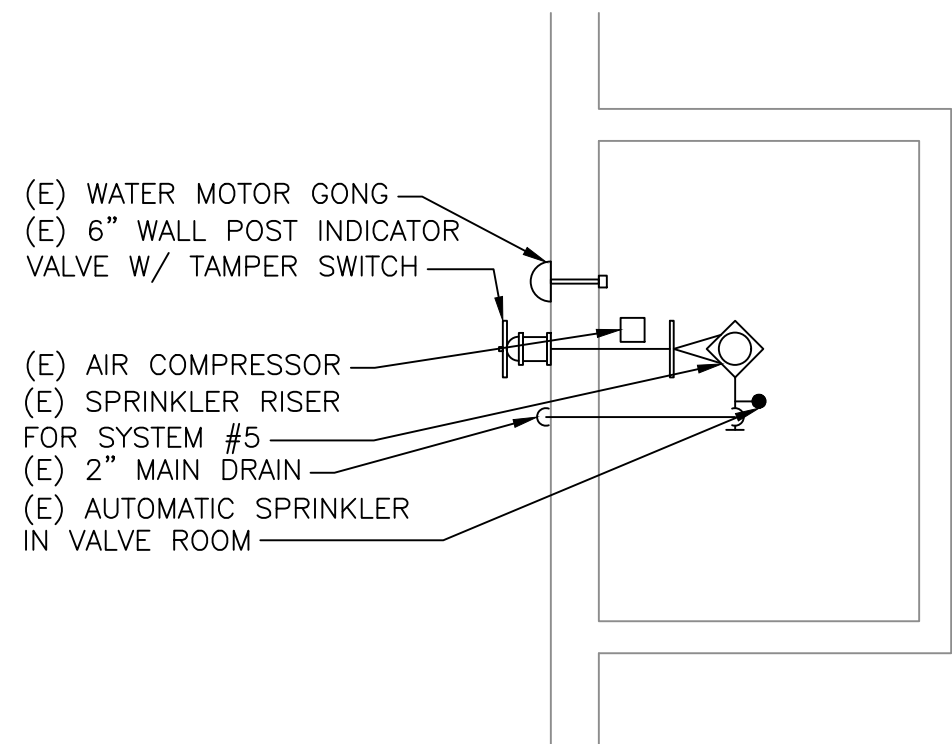
2 ENLARGED FLOOR PLAN - VALVE ROOM #1 NEW WORK
1/4" = 1'-0"



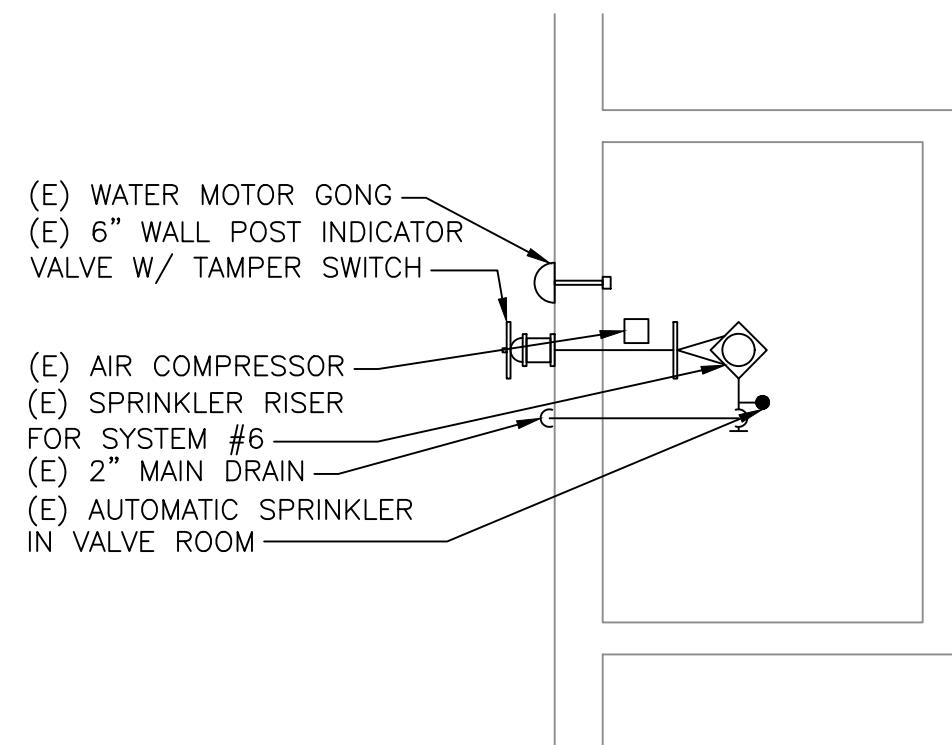
3 ENLARGED FLOOR PLAN - VALVE ROOM #2 NEW WORK
1/4" = 1'-0"



4 ENLARGED FLOOR PLAN - VALVE ROOM #3 & #4 NEW WORK
1/4" = 1'-0"



5 ENLARGED FLOOR PLAN - VALVE ROOM #5 NEW WORK
1/4" = 1'-0"



6 ENLARGED FLOOR PLAN - VALVE ROOM #6 NEW WORK
1/4" = 1'-0"

KEY PLAN

1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision

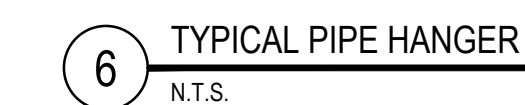
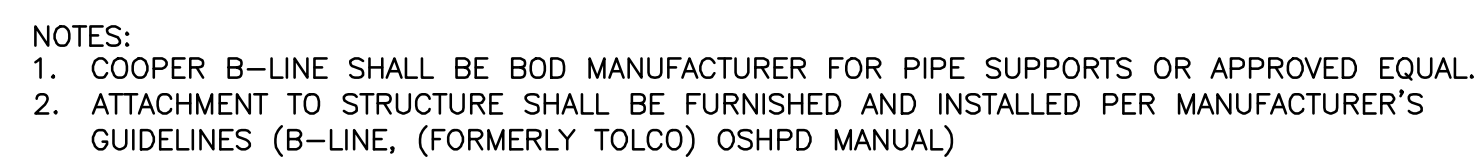
Burns
BURNS ENGINEERING, INC. | 215 878-2780
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:
**PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES**

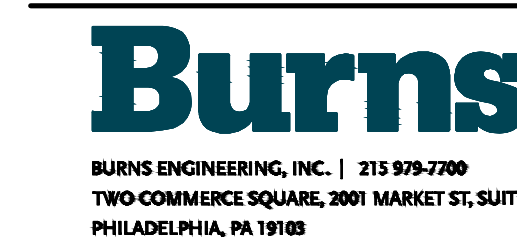
Drawing Title:
**ENLARGED
FLOOR PLANS -
NEW WORK**

Date: 7/15/2022
Scale: AS NOTED
Drawn: JJS
Checked: PDK
Job No: 2020-028
Drawing No:

FP-8



1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision



Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title

DETAILS

Date: 7/15/2022

Scale: AS M

Drawn: JJS

Checked: PDK

Job No: 2020-028

FP-9

GENERAL NOTES






1. THE FIRE ALARM SYSTEM IS EXISTING AND WILL REQUIRE THE CONTRACTOR TO EXPAND AS REQUIRED FOR A COMPLETE OPERATING FIRE ALARY SYSTEM. WORK INCLUDES REPLACEMENT OF EXISTING COMPONENTS, INSTALLATION OF NEW COMPONENTS, AND ALL SOFTWARE REVISION TO PLACE SYSTEM IN FULL OPERATION.
2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 2017 NATIONAL ELECTRIC CODE AND 2018 PHILADELPHIA FIRE CODE.
4. UPON COMPLETION OF THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEM IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TEST AND CERTIFY WITH LICENSE & INSPECTION'S (L&I) PRESENCE, THE ENTIRE FIRE ALARM SYSTEM IN ACCORDANCE WITH ALL REQUIREMENTS OF NFPA 72.
5. MINIMUM WIRE SIZE FOR INITIATING CIRCUITS SHALL BE #14 AWG SOLID COPPER CONDUCTOR. MINIMUM WIRE SIZE OF INDICATING CIRCUITS SHALL BE #12 AWG SOLID COPPER CONDUCTOR. STRANDED CABLING SHALL NOT BE PERMITTED. ALL FIRE ALARM SYSTEM WIRING SHALL BE CLASS B OR MATCH EXISTING AND CONFORM TO NFPA 70. WIRE NUTS SHALL NOT BE ALLOWED. WIRE SHALL BE THINW/THWN WITH 600V VOLTAGE RATING AND 90 DEGREE TEMPERATURE RATING. WORK ON EXISTING SYSTEMS SHALL MATCH EXISTING COLOR-CODING OF WIRE.
6. CONTRACTOR SHALL PROVIDE THE FOLLOWING SHOP DRAWINGS TO THE EXTENSION OF THE EXISTING FIRE ALARM SYSTEM. ALL ITEMS BELOW SHALL BE COMPATIBLE WITH THE EXISTING HONEYWELL NOTIFIER NFS-320 SYSTEM:
 - 6.1. WIRING DIAGRAM
 - 6.2. CIRCUIT CAPACITY FOR INITIATING AND NOTIFICATION DEVICES
 - 6.3. CABLE REQUIREMENTS
 - 6.4. TAGS, ADDRESSES AND DEVICE IDS
 - 6.5. PRODUCT CATALOG LITERATURE
 - 6.6. BATTERY CALCULATIONS
 - 6.7. SEQUENCE OF OPERATIONS
7. ALL EQUIPMENT SYMBOLS ARE SHOWN ON DRAWINGS AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CABLING.
8. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE EXTENSIONS OF THE EXISTING FIRE ALARM SYSTEM.
9. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL COMPLY WITH ALL ANSI 117, NFPA 72 AND IBC REQUIREMENTS. AT THE MINIMUM INSTALL ALL DEVICES AS FOLLOWS:
 - 9.1. MANUAL PULL STATIONS: 48" AFF TO CENTER; 5'-0" MAXIMUM FROM EXIT DOORS.
 - 9.2. AUDIBLE/VISUAL: 7'-0" AFF TO BOTTOM OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS.
 - 9.3. VISUAL: 7'-0" AFF TO BOTTOM OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS.
10. COORDINATE WITH ALL TRADES ALL CONDITIONS RELATED TO THE INSTALLATION OF ALL DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADES ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
11. ALL EQUIPMENT CLEARANCES SHALL BE IN ACCORDANCE WITH NFPA 70 REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.
12. NO AC CARRYING CONDUCTORS ARE PERMITTED TO SHARE RACEWAYS WITH ANY FIRE ALARM INITIATING AND/OR NOTIFICATION CIRCUITS.
13. ALL PENETRATIONS OF WALLS AND FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA. INSTALLATION SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES. NEW STROBE INTENSITY OF ALL VISUAL NOTIFICATION APPLIANCES SHALL BE IN ACCORDANCE WITH NFPA 72 AND UL 1971. STROBE CANDELA RATINGS SHALL BE PROVIDED IN ACCORDANCE WITH DEVICE LOCATIONS AND SHALL CONFORM TO ALL ICC/ANSI 117 AND NFPA 72 INSTALLATION REQUIREMENTS. CONTRACTOR SHALL PROVIDE THE REQUIRED CANDELA POWER AND LOCATE ALL VISUAL NOTIFICATION APPLIANCES AS REQUIRED TO MEET THE REQUIREMENTS OF ALL REFERENCED CODES AND STANDARDS.
14. SEE FP-0 FOR ADDITIONAL NOTES

LINEWEIGHT LEGEND

IN GENERAL, DIFFERENT LINEWEIGHTS ARE USED TO DIFFERENTIATE BETWEEN EXISTING, DEMOLITION, AND NEW WORK AS FOLLOWS.

- EXISTING
- --- --- DEMOLITION
- NEW WORK

FIRE ALARM SYMBOLS

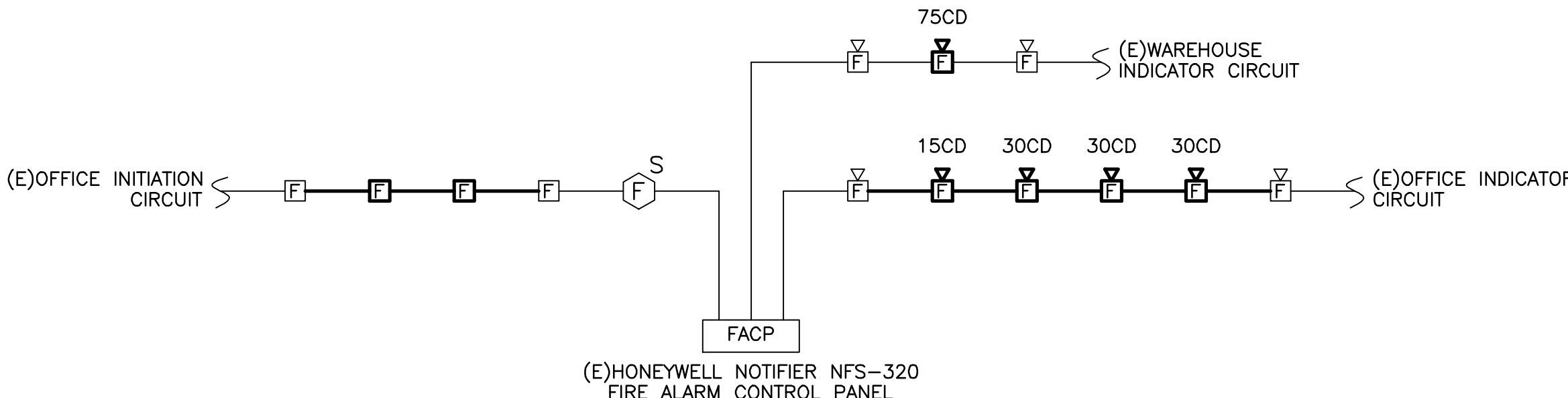
-  PULL STATION
-  #CD STROBE – WALL MOUNTED, CANDELA RATING AS INDICATED ON DRAWINGS
-  #CD HORN/STROBE – WALL MOUNTED, CANDELA RATING AS INDICATED ON DRAWINGS
-  S SMOKE DETECTOR
-  FIRE ALARM CONTROL PANEL

ABBREVIATIONS

- A AMPERE
- AFC ABOVE FINISHED CEILING
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AL ALUMINUM
- AMP AMPERE
- AWG AMERICAN WIRE GAUGE
- BAT BATTERY
- C CONDUIT
- CD CANDELA
- CLG CEILING
- CU COPPER
- (E) EXISTING TO REMAIN
- EA EACH
- EC ELECTRICAL CONTRACTOR
- EMT ELECTRICAL METALLIC TUBING
- F/A FIRE ALARM
- FACP FIRE ALARM CONTROL PANEL
- FL FLOOR
- FT FEET
- G GROUND
- GC GENERAL CONTRACTOR
- IMC INTERMEDIATE METAL CONDUIT
- JB JUNCTION BOX
- KA KILOAMPERE
- KAIC KILOAMPERES INTERRUPTING CAPACITY
- KV KILOVOLT
- KVA KILOVOLT-AMPERE
- KVAR KILOVOLT-AMPERE-REACTIVE
- KW KILOWATT
- KWH KILOWATT-HOUR
- LV LOW VOLTAGE
- MC MECHANICAL CONTRACTOR
- MV MEDIUM VOLTAGE
- (N) NEW
- NEC NATIONAL ELECTRIC CODE
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- PB PULL BOX
- PC PLUMBING CONTRACTOR
- PVC POLYVINYL CHLORIDE
- (R) REMOVE
- (RE) RELOCATE EXISTING
- RMC RIGID METALLIC CONDUIT
- TYP TYPICAL
- UG UNDERGROUND
- UL UNDERWRITER'S LABORATORY
- UON UNLESS OTHERWISE NOTED
- V VOLT
- VA VOLT-AMPERE
- W WATT
- WP WEATHERPROOF

RISER NOTES:

1. REFER TO FLOOR PLANS FOR TOTAL NUMBER OF DEVICES ON EACH CIRCUIT.



1 FIRE ALARM RISER DIAGRAM
FA-0 NOT TO SCALE



KEY PLAN

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TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

FIRE ALARM
NOTES, LEGENDS,
SYMBOLS, AND
ABBREVIATIONS

Date: 7/15/2022

Scale: AS NOTED

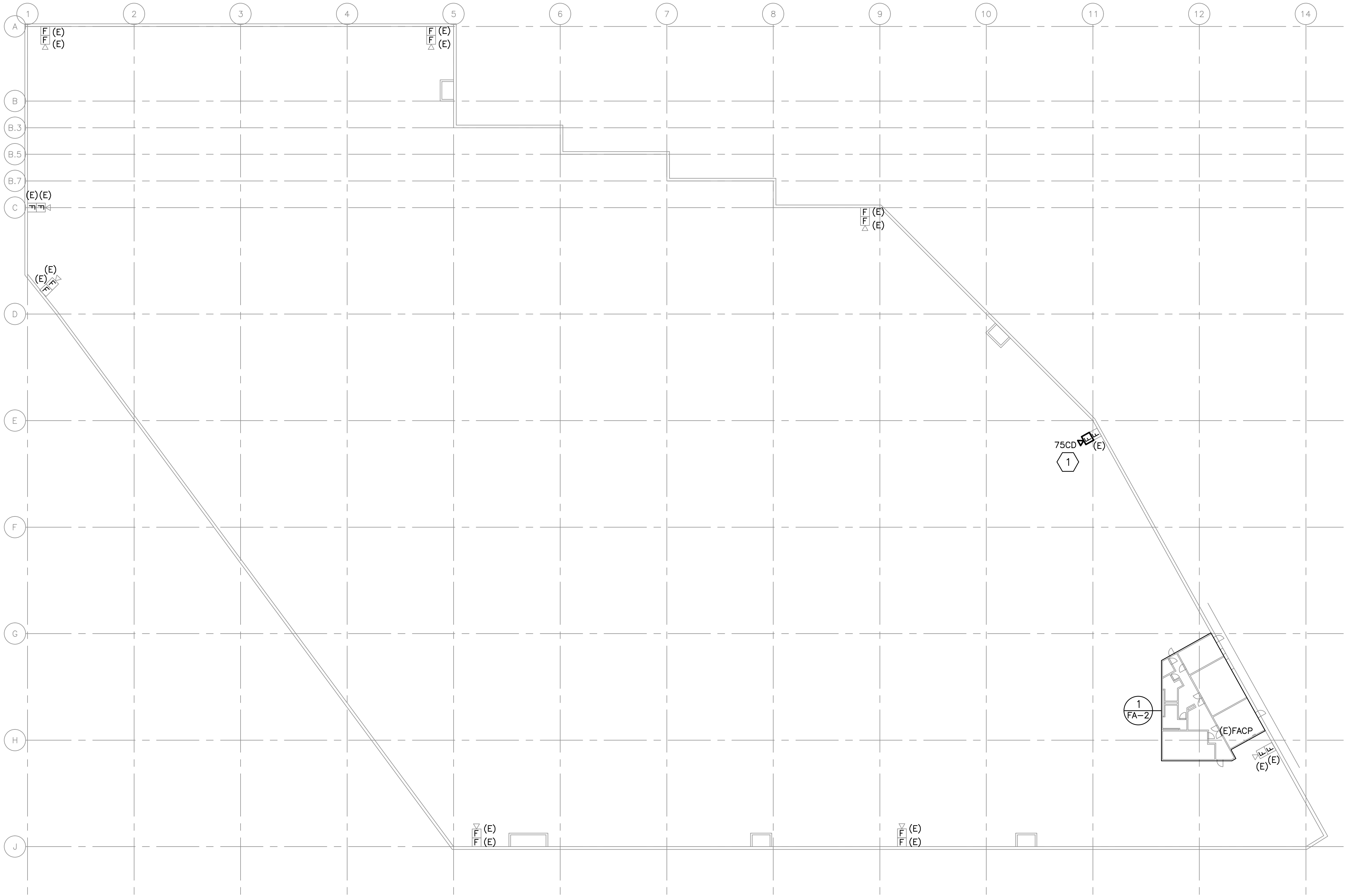
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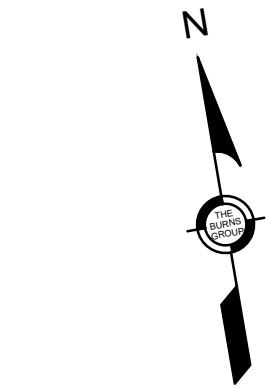
Job No: 2020-028

Drawing No:

FA-0



1 GROUND FLOOR - NEW WORK
1/32" = 1'-0"



0 32' 64'
1/32" = 1'-0"

NOTES:

1. REFER TO FA-0 FOR GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES:

- 1 DISCONNECT DAMAGED HORN/STROBE FROM EXISTING FIRE ALARM CIRCUIT AND REMOVE. INSTALL NEW HORN/STROBE IN SAME LOCATION, RECONNECT TO EXISTING FIRE ALARM CIRCUIT.



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TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN -
WAREHOUSE

Date: 7/15/2022

Scale: AS NOTED

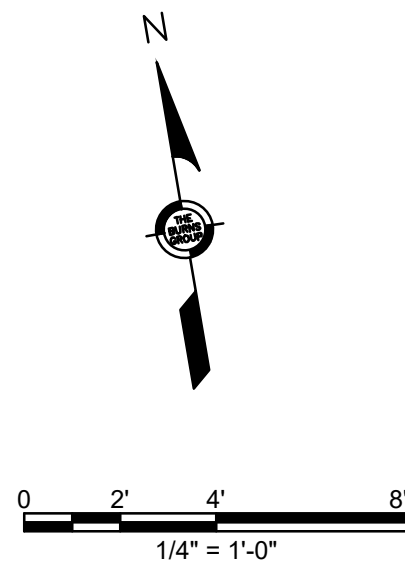
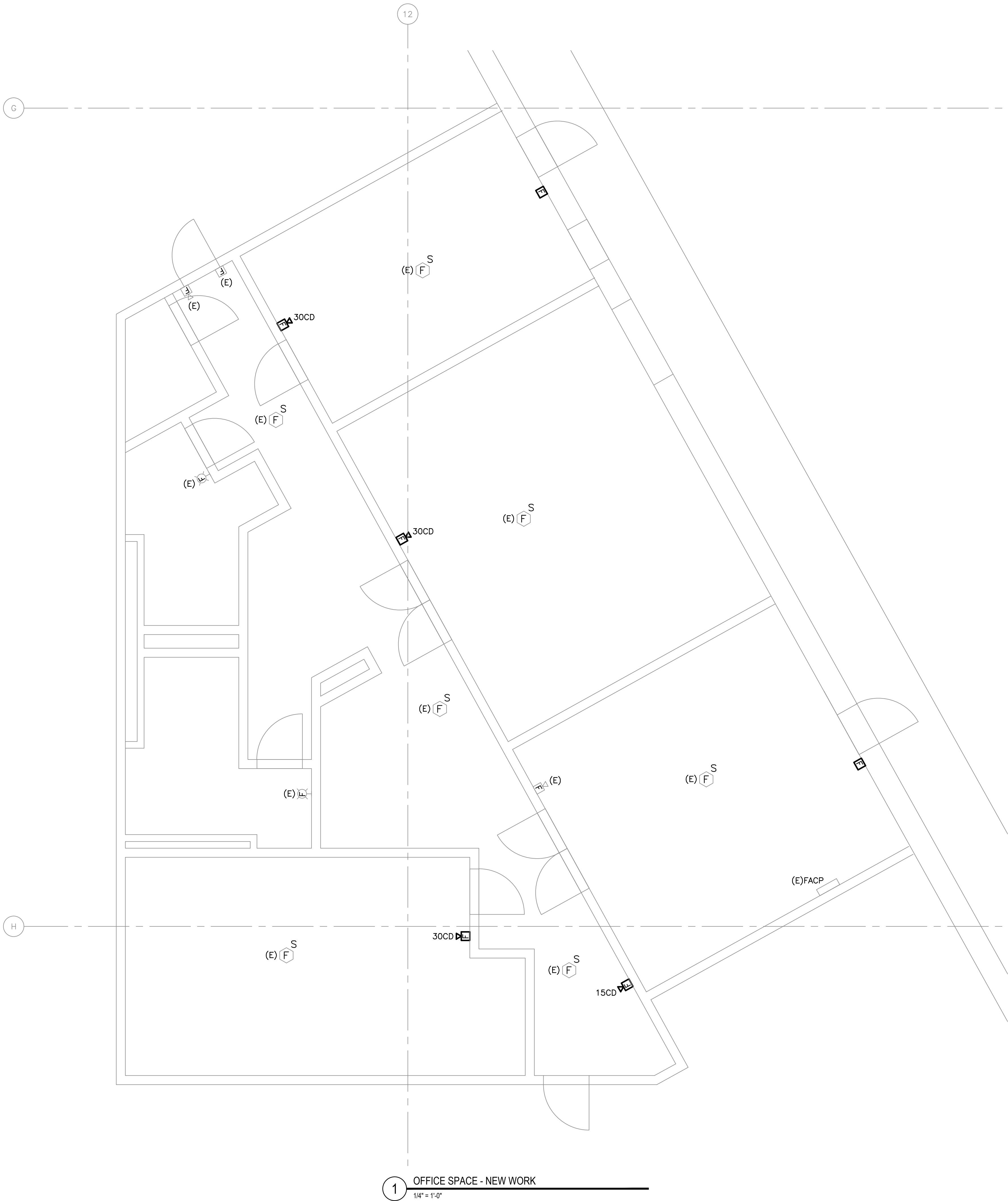
Drawn: AMD

Checked: BAB

Job No: 2020-028

Drawing No:

FA-1



NOTES:

1. REFER TO FA-0 FOR GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS.



KEY PLAN

1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision



Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLAN -
OFFICE

Date: 7/15/2022

Scale: AS NOTED

Drawn: AMD

Checked: BAB

Job No: 2020-028

Drawing No:

FA-2

SYMBOLS

	EXISTING
	NEW
	DEMOLITION
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE DROP BELOW
	PIPE BREAK
	CAP
	CONTINUATION
	UNION
	FLOW ARROW
	VALVE
	PRESSURE/TEMPERATURE SENSOR
	STRAINER WITH BLOWDOWN
	FLOW BALANCING VALVE
	BALL VALVE
	BREAK LINE (DOUBLE LINE DUCT/PIPE)

ABBREVIATIONS

(A)	ABANDONED
AHJ	AUTHORITY HAVING JURISDICTION
BOP	BOTTOM OF PIPE
BOD	BOTTOM OF DUCT
CA	COMPRESSED AIR
CW	COLD WATER/DOMESTIC COLD WATER
CWS	COLD WATER SUPPLY
DN	DOWN
(E)	EXISTING
EW	ENTERING WATER TEMPERATURE
GC	GENERAL CONTRACTOR
GWB	GYPSPUM WALL BOARD
HW	HOT WATER/DOMESTIC HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
LWT	LEAVING WATER TEMPERATURE
MBH	ONE-THOUSAND BTU'S
N.C.	NORMALLY CLOSED
NG/G	NATURAL GAS
PC	PLUMBING CONTRACTOR
PM	PROJECT MANAGER
PRV	PRESSURE REDUCING VALVE
TYP.	TYPICAL
WPD	WATER PRESSURE DROP
SAN	SANITARY DRAINAGE

DIMENSIONAL UNITS

ø	DIAMETER
&	AND
' OR FT	FEET
" OR IN	INCHES
GPM	GALLONS PER MINUTE
PSIG	POUNDS PER SQUARE INCH GAUGE

IDENTIFIERS

	CONNECTION TO EXISTING
	POINT OF DISCONNECT
	CONSTRUCTION NOTE

	EQUIPMENT TAG
--	---------------

SECTION NUMBER		SECTION MARK
DRAWING NUMBER		
DIFFUSER TAG		DIFFUSER TAG
CFM		

GENERAL NOTES

1. SEE FP-0 FOR GENERAL NOTES

PLUMBING SPECIFICATIONS

- PART 1 – PRODUCTS
- 1.1 HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS
- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- 1.1.1. AB & I FOUNDRY; A PART OF THE MCWANE FAMILY OF COMPANIES.
- 1.1.2. CHARLOTTE PIPE AND FOUNDRY COMPANY.
- 1.1.3. TYLER PIPE
- B. PIPE AND FITTINGS: ASTM A 74, SERVICE AND HEAVY CLASS(ES).
- C. GASKETS: ASTM C 564, RUBBER.
- D. CAULKING MATERIALS: ASTM B 29, PURE LEAD AND OAKUM OR HEMP FIBER.
- PART 2 – EXECUTION
- 2.1 ENCASEMENT FOR UNDERGROUND METAL PIPING
- A. STANDARD: ASTM A 674 OR AWWA C105/A 21.5.
- B. MATERIAL: LINEAR LOW-DENSITY POLYETHYLENE FILM OF 0.008-INCH MINIMUM THICKNESS.
- C. FORM: TUBE.
- D. COLOR: BLACK.
- 2.2 LAY BURIED BUILDING WASTE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM.
- A. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT. PLACE HUB ENDS OF PIPING UPSTREAM.
- B. INSTALL REQUIRED GASKETS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR USE OF LUBRICANTS, CEMENTS, AND OTHER INSTALLATION REQUIREMENTS.
- C. MAINTAIN SWAB IN PIPING AND PULL PAST EACH JOINT AS COMPLETED.
- 2.3 INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."
1. INSTALL ENCASEMENT ON UNDERGROUND PIPING ACCORDING TO ASTM A 674 OR AWWA C105/A 21.5.
- 2.4 JOINT CONSTRUCTION
- A. JOIN HUB-AND-SPIGOT, CAST-IRON SOIL PIPING WITH GASKET JOINTS ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK" FOR COMPRESSION JOINTS.
- A. JOIN HUB-AND-SPIGOT, CAST-IRON SOIL PIPING WITH CALKED JOINTS ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK" FOR LEAD-AND-OAKUM CALKED JOINTS.



KEY PLAN

1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
No.	Date	Revision



Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

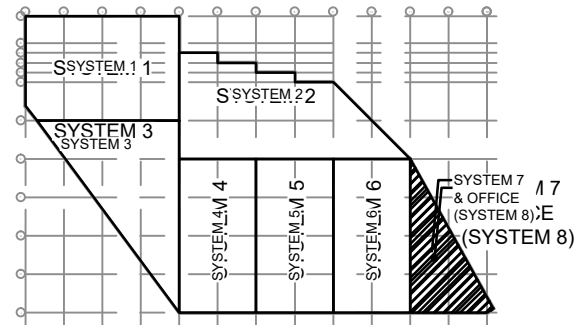
PLUMBING
NOTES, LEGENDS,
AND SPECS

Date:	7/15/2022
Scale:	AS NOTED
Drawn:	TCG
Checked:	KJM
Job No:	2020-028
Drawing No:	P-0

PLUMBING SPECIALTY SCHEDULE					
TAG	DESCRIPTION	CHARACTERISTICS	BASIS OF DESIGN		NOTES
			MANUFACTURER	MODEL NUMBER	
DS-1	DOWNSPOUT NOZZLE	BACKFLOW PREVENTER DISCHARGE, STAINLESS STEEL BODY, CAST IRON PIPE CONNECTION	JR SMITH	1775-U	SANITARY

NOTES:

1. REFER TO P-0 FOR ADDITIONAL SCOPE OF WORK, NOTES, SYMBOLS, AND ABBREVIATIONS.



KEY PLAN

1 10/6/22 ADDENDUM #2

0 9/26/22 ISSUED FOR BID

No. Date Revision

Burns

BURNS ENGINEERING, INC. | 215 578-7789
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103

Project Title:

PHILAPORT
PIER 78 ANNEX
SPRINKLER UPGRADES

Drawing Title:

GROUND FLOOR
PLUMBING PLAN

Date: 7/15/2022

Scale: AS NOTED

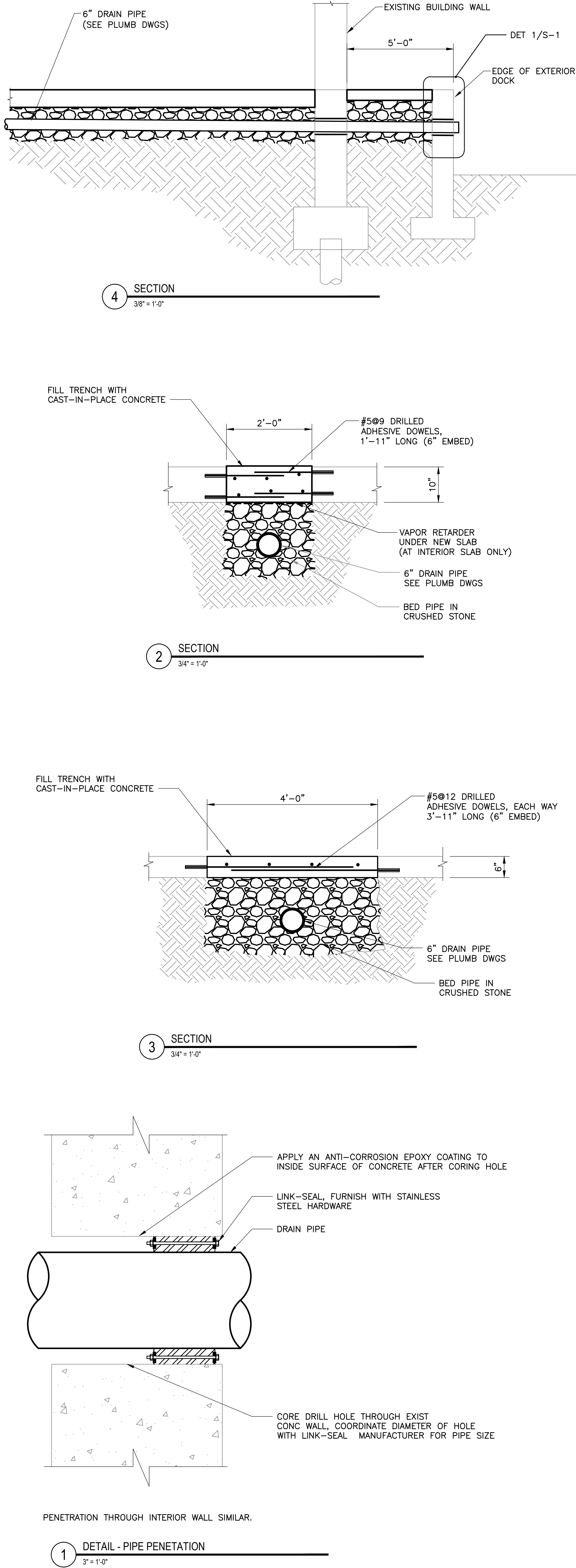
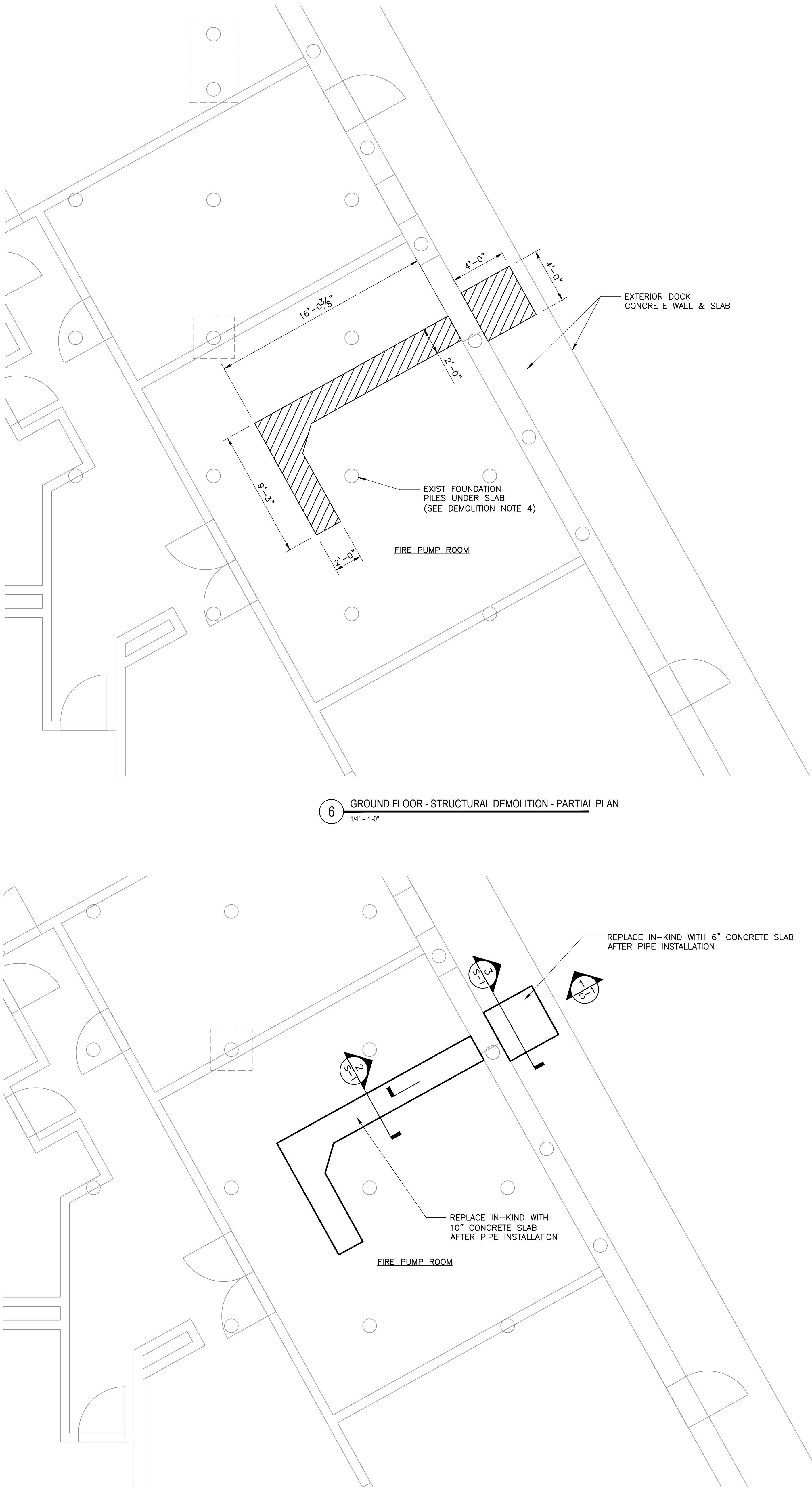
Drawn: TCG

Checked: PDK

Job No: 2020-028

Drawing No:

P-1



GENERAL STRUCTURAL NOTES:

- THESE DRAWINGS SHALL BE COORDINATED WITH AND USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER DISCIPLINES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL METHODS AND MEANS OF CONSTRUCTION AND FOR JOB SITE SAFETY. PROVIDE PROPER PROTECTIVE CANOPIES AND BARRICADES TO MAINTAIN THE PUBLIC SAFETY AND TO PREVENT DAMAGE TO ADJACENT PROPERTY. DESIGN AND CONSTRUCT IN ACCORDANCE WITH THE LOCAL PREVAILING CODES AND OF ALL OTHER APPLICABLE REGULATORY AGENCIES.

CONCRETE NOTES & SPECIFICATIONS

- DESIGN OF REINFORCED CONCRETE MEMBERS IS IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-14).
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 301, ACI 311, ACI 315, ACI 318, ACI 347, ACI 304.
- COLD-WEATHER CONCRETE PLACEMENT (3 OR MORE CONSECUTIVE DAYS WHERE AVERAGE HIGH TEMPERATURES IS EXPECTED TO BE BELOW 40 DEGREES F) SHALL COMPLY WITH THE PROVISIONS OF ACI 306. DO NOT USE FROZEN MATERIALS. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE MATERIALS.
- HOT-WEATHER CONCRE PLACEMENT SHALL COMPLY WITH THE PROVISIONS OF ACI 301.
- NEW CAST-IN-PLACE CONCRETE SHALL BE NORMALWEIGHT CONCRETE HAVING A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
- ALL REINFORCING STEEL SHALL BE HIGH-STRENGTH NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE EPOXY-COATED, PER ASTM A775.
- REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE DRAWINGS:
CONCRETE CAST AGAINST EARTH 3"
CONCRETE EXPOSED TO EARTH OR WEATHER 2"
CONCRETE NOT EXPOSED TO EARTH OF WEATHER 1"

8. CONCRETE MIX DESIGN:
- | | |
|-----------------------------|---------------------|
| PORTLAND CEMENT | ASTM C150 TYPE I/II |
| COARSE AGGREGATE | ASTM C33 |
| FINE AGGREGATE | ASTM C33 |
| MAXIMUM WATER-CEMENT RATIO: | 0.40 |

MINIMUM CEMENTITIOUS MATERIAL CONTENT SHALL BE 705 LBS PER CUBIC YARD OF CONCRETE. FLY ASH MINERAL ADMIXTURE CONFORMING TO ASTM C618 CLASS F, MAY BE SUBSTITUTED FOR PORTLAND CEMENT UP TO A MAXIMUM PERCENTAGE BY WEIGHT OF 25 PERCENT. GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM C989 MAY BE SUBSTITUTED FOR PORTLAND CEMENT UP TO A MAXIMUM PERCENTAGE BY WEIGHT OF 50 PERCENT. THE PERCENTAGE OF PORTLAND CEMENT BY WEIGHT OF THE TOTAL CEMENTITIOUS MATERIAL CONTENT SHALL NOT BE LESS THAN 50 PERCENT.

MAXIMUM COARSE AGGREGATE SIZE USE IN THE CONCRETE MIX SHALL BE 3/4 INCH. ACCEPTABLE SLUMP FOR CAST-IN-PLACE CONCRETE SHALL BE 4 INCHES, ± 1.5 INCHES AS DETERMINE IN ACCORDANCE WITH ASTM C143.

SUBMIT PROPOSED CONCRETE MIX DESIGN CONFORMING TO THE REQUIREMENT HEREIN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO PROCUREMENT AND DELIVERY TO THE PROJECT SITE. MIX DESIGN PROPORTIONS SUBMITTED SHALL BE BASED UPON LABORATORY TRIAL MIX TEST RESULTS AND/OR MIXES SUCCESSFULLY USED WITHIN THE TWO YEARS PRECEDING THE DATE OF SUBMITTAL.

AIR CONTENT SHALL BE 6 PERCENT, ± 1.5 PERCENT, AT THE POINT OF DELIVERY. WHERE USED, AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.

CHEMICAL ADMIXTURES SHALL CONFORM TO THE FOLLOWING:
WATER-REDUCING ADMIXTURES ASTM C494, TYPE A
RETARDING ADMIXTURE ASTM C494, TYPE B.

9. LIQUID MEMBRANE FORMING COMPOUNDS SHALL CONFORM TO ASTM C309, TYPE 2, CLASS B.

10. UNDER-SLAB (SHEET) VAPOR RETARDER SHALL CONFORM TO ASTM E1785, CLASS A. ADHESIVE AND/OR TAPE FOR SEAMS AND SEALING AROUND PIPE PENETRATIONS SHALL BE AS PER THE VAPOR RETARDER MANUFACTURER'S RECOMMENDATIONS.

11. NO LOAD SHALL BE PLACED ON FRESHLY POURED CONCRETE UNTIL THE CONCRETE HAS ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI, BUT NO SOONER THAN 7 DAYS AFTER PLACEMENT.

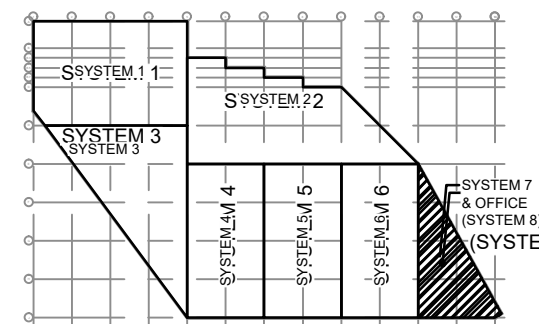
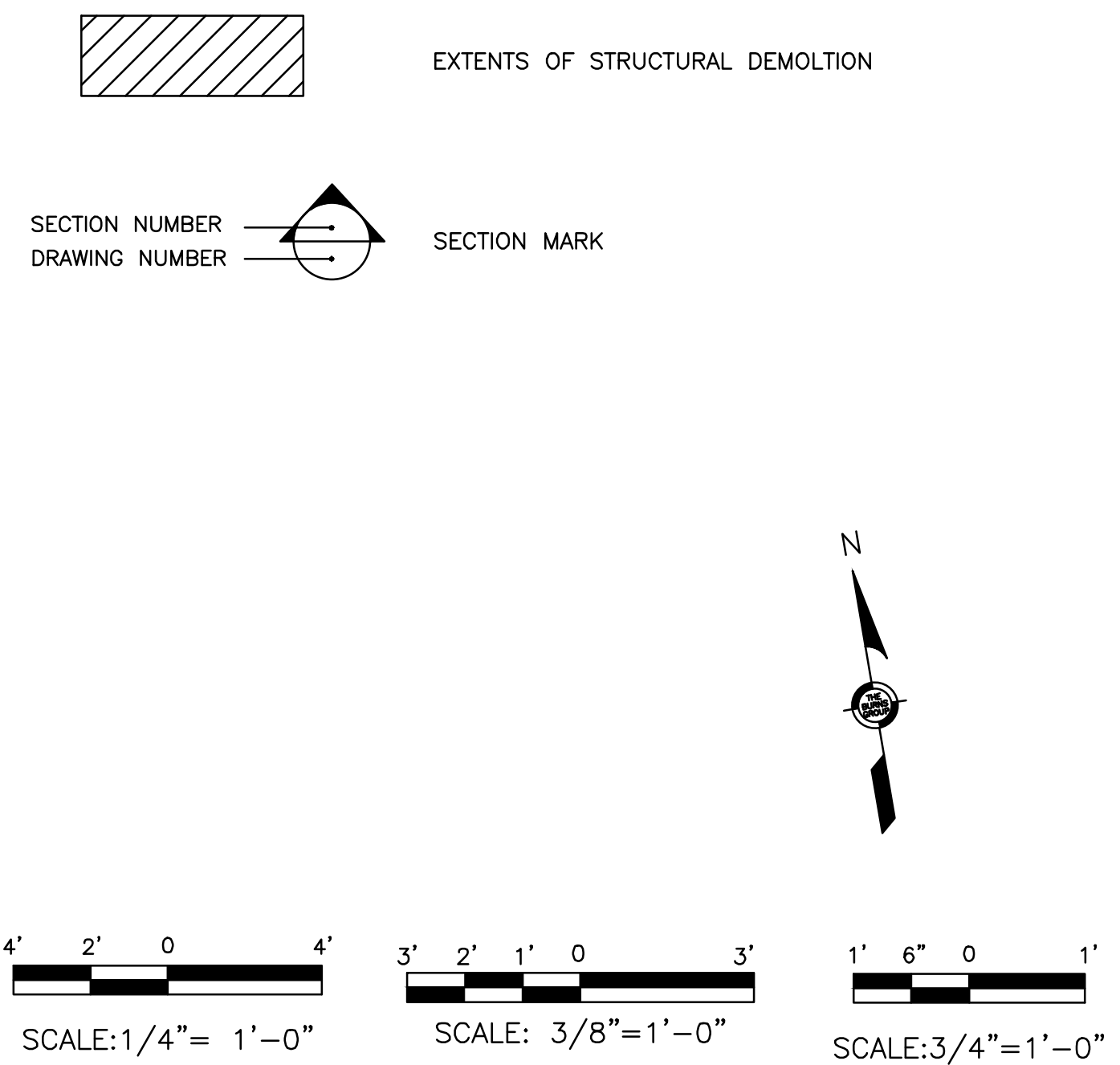
12. ALL NEW CONCRETE WORK DETERMINED BY EITHER ON-SITE INSPECTORS OR THE CONSTRUCTION RESIDENT ENGINEER TO BE DEFECTIVE OR NON-CONFORMING SHALL BE REPAIRED AND OR REPLACED, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

13. POST-INSTALLED REINFORCING DOWELS SHALL BE HILTI HIT RE 500 V3 SYSTEM, OR AN APPROVED EQUAL. MINIMUM EMBEDMENT SHALL BE AS SHOWN IN THE DETAILS, BUT NOT LESS THAN 6 INCHES.

STRUCTURAL DEMOLITION NOTES

- CONTRACTOR IS RESPONSIBLE FOR PROVIDING DUST CONTROL AND FOR ENSURE SAFETY AT THE WORK SITE IN COMPLIANCE WITH OSHA STANDARD 29 CFR PART 1926.
- REMOVE DEMOLITION DEBRIS PROMPTLY FROM THE SITE. STOCKPILING OF DEBRIS IS NOT PERMITTED ON EXISTING STRUCTURE OR ON NEW CONSTRUCTION.
- CONCRETE SLAB DEMOLITION SHALL BE PERFORMED IN A CONTROLLED MANNER, AS TO NOT DAMAGE OR ALTER THE ADJACENT CONCRETE SLAB AND WALLS THAT ARE TO REMAIN. THE USE OF A JACKHAMMER FOR DEMOLITION IS NOT PERMITTED.
- PRIOR TO CUTTING ANY CONCRETE SLAB, UTILIZE GPR TECHNOLOGY OR SIMILAR MEANS TO SCAN THE SLAB SURFACE TO LOCATE ALL EXISTING FOUNDATION PILES. NO CONCRETE SHALL BE CUT WITHIN A 2'-6" HORIZONTAL DISTANCE FROM ANY EXISTING PILE.

SYMBOLS



KEY PLAN

1	10/6/22	ADDENDUM #2
0	9/26/22	ISSUED FOR BID
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