FP NOTES

1. CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEMS RENOVATION AS SHOWN. PIPING CONCEALMENT AND ALL ASSOCIATED EQUIPMENT AS REQUIRED. ALL WORK AND INSTALLATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE 2003 INTERNATIONAL BUILDING CODE AND THE LATEST EDITIONS OF NFPA 13, 70 AND 72.

2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR THE COMPLETE INSTALLATION OF WORK.

3. ALL DAMAGE TO EXISTING WALLS, CEILINGS, FLOORS, AND STRUCTURAL MEMBERS FROM PENETRATIONS, REMOVAL, INSTALLATIONS OR OTHER ACTIONS OF THE CONTRACTOR SHALL BE PATCHED, REPAIRED AND PAINTED WITH NEW MATERIALS BY THE CONTRACTOR TO MATCH ADJACENT WORK, WHETHER SPECIFICALLY NOTED OR NOT.

4. DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILINGS SHALL NOT BE UTILIZED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.

5. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED OR BURNED UNLESS PREVIOUSLY APPROVED BY THE PROJECT'S ENGINEER AND MWAA. CONTRACTOR SHALL NOT CUT OR PATCH STRUCTURAL WORK IN A MANNER THAT WOULD RESULT IN A REDUCTION OF LOAD-CARRYING OR OF LOAD-DEFLECTION RATIO.

6. SPRINKLER SYSTEMS SHALL BE A WET PIPE SYSTEM THROUGHOUT EXCEPT AS NOTED ON THE DRAWINGS.

7. ALL SPRINKLER PIPING SHALL BE CONCEALED ABOVE SUSPENDED CEILINGS OR WITHIN SOFFITS AS INDICATED ON THE DRAWINGS, EXCEPT FOR PIPING IN MECHANICAL ROOMS, ELECTRIC ROOMS, PIPE CHASES, ELEVATOR MACHINE ROOMS OR AS OTHERWISE INDICATED ON THE DRAWINGS.

8. NEW SPRINKLER PIPING INDICATED ON THE DRAWINGS IS SHOWN FOR PURPOSES OF DESIGN INTENT. PIPING IS INTENDED TO BE RUN STRAIGHT AND TIGHT TO THE FACE OF COLUMNS AS INDICATED ON THE DRAWINGS.

9. SPRINKLER PIPE HANGERS SHALL BE INSTALLED INDEPENDENT OF CEILING SHEATHING WITH ANCHORS INSTALLED IN DECK SLAB ABOVE. IN AREAS WITH INTERMEDIATE CEILINGS BETWEEN FINISHED CEILING AND DECK SLAB ABOVE, TOGGLE TYPE HANGERS MAY BE INSTALLED UNDER INTERMEDIATE HOLLOW TILE OR METAL LATH AND PLASTER CEILINGS FOR SUPPORTING PIPING 1- 1/2 INCHES OR SMALLER IN SIZE.

GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS. INFORMATION CONTAINED IN THESE DRAWINGS IS BASED ON EXISTING DOCUMENTS AND LIMITED FIELD MEASUREMENT VERIFICATION. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENTS AND/OR MODIFICATIONS TO CONFORM TO EXISTING CONDITIONS. IN ADDITION,

2. THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW EQUIPMENT AND SYSTEMS AS ACCURATELY AS THE SCALE WILL PERMIT. ALL CRITICAL LOCATIONS AND DIMENSIONS SHALL BE DETERMINED IN THE FIELD. IN CASE OF A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY AS DETERMINED BY THE ENGINEER. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION OF NEW WORK.

3. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, STANDARDS, ORDINANCES, RULES AND REGULATIONS OF ALL LOCAL AND STATE GOVERNMENTAL AUTHORITIES, THE RULES OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE NATIONAL ELECTRICAL CODE (NEC), THE AMERICANS WITH DISABILITIES ACT AND ASHRAE AS INTERPRETED BY THE SI COTR AND PUBLIC UTILITIES HAVING JURISDICTION OVER ANY OF THE SYSTEMS HEREIN SPECIFIED.

DEFINITIONS:

"PROVIDE" –	FURNISH AND INSTALL
"FURNISH" –	SUPPLY AND DELIVER TO THE PROJECT SITE
"INSTALL" –	ERECT IN PLACE
"CONCEALED" –	HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS
"EXPOSED" –	VISIBLE TO VIEW
"INDICATED" –	SHOWN IN THE CONTRACT DOCUMENTS

4. THE SITE, LOCATION AND ROUTING OF NEW AND EXISTING BUILDING SYSTEMS ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS WILL PERMIT. BIDDERS SHALL THOROUGHLY EXAMINE THE CONTRACT DRAWINGS, VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS IN THE FIELD. BIDDERS WHO DO NOT VISIT THE SITE MAY BE UNILATERALLY NOT ALLOWED TO SUBMIT A BID. BIDDERS SHALL REPORT TO THE ENGINEER THRU MWAA ANY CONDITIONS WHICH MIGHT MAKE INSTALLATION OF REQUIRED EQUIPMENT A PROBLEM BEFORE SUBMITTING A BID. BY THE SUBMISSION OF A BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THIS PLAN SET AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF PLANS WILL NOT BE CONSIDERED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE EXISTING CONDITIONS OR MISUNDERSTANDINGS OF THE CONTRACTUAL REQUIREMENTS.

5. WHERE SITE CONDITIONS REQUIRE MINOR DEVIATIONS FROM THE CONTRACT DOCUMENTS, MAKE SUCH DEVIATIONS WITHOUT COST TO THE OWNER. MAJOR DEVIATIONS SHALL NOT BE MADE WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM THE MWAA.

6. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS IN PIPING, CIRCUITRY AND OTHER ITEMS REQUIRED TO INSTALL THE WORK WITHOUT INTERFERENCES. THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS INDICATING ALL OTHER TRADES TO MWAA FOR APPROVAL.

7. THE CONTRACTOR SHALL KEEP A RECORD OF ALL CHANGES TO THE DRAWINGS AND SHALL SUBMIT CAD AS BUILT DRAWINGS TO THE MWAA AT THE CONCLUSION OF THE CONTRACT, PRIOR TO REQUEST FOR FINAL PAYMENT.

8. THE CONTRACTOR SHALL REMOVE DESIGNATED EQUIPMENT TO A LOCATION AT THE PROJECT SITE TO BE DETERMINED BY THE MWAA. AFTER THE EQUIPMENT HAS BEEN GATHERED FOR THE MWAA INSPECTION AND POSSIBLE RETENTION, ALL EQUIPMENT NOT RETAINED BY THE MWAA SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

9. ALL EQUIPMENT SHALL BE SUITABLE FOR THE PURPOSE INTENDED. ALL MANUFACTURERS SHALL HAVE HAD SIMILAR PRODUCTS IN SERVICE FOR A MINIMUM OF 5 YEARS.

10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S AND MANUFACTURER'S REQUIREMENTS PUBLISHED INSTALLATION INSTRUCTIONS. THIS SHALL INCLUDE PROVIDING CLEARANCES AS DEFINED IN THE INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH NEC AND NFPA REQUIREMENTS. PROVIDE ALL REQUIRED AUXILIARY ITEMS REQUIRED TO PERFORM FUNCTION INTENDED, INCLUDING VALVED AIR VENTS AT THE PIPING INSTALLATION HIGH POINTS.

11. THE CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL EXISTING ITEMS AND EQUIPMENT INDICATED TO BE REUSED. THE CONTRACTOR SHALL REPORT ANY DEFICIENCIES TO THE ENGINEER THRU MWAA DURING THE CONSTRUCTION PHASE OF THE PROJECT. THOROUGHLY CLEAN ALL ITEMS AND EQUIPMENT INDICATED TO BE REUSED.

12. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND PIPING AT A LEVEL CONSISTENT WITH THE EXISTING INSTALLED EQUIPMENT. ALL EQUIPMENT, AND PIPING SHALL, UNLESS OTHERWISE NOTED, BE RUN PARALLEL TO OR PERPENDICULAR TO BUILDING WALLS IN A NEAT WORKMANLIKE MANNER. PROVIDE ALL SUPPORT STEEL, HANGERS AND ACCESSORIES NECESSARY FOR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. DO NOT ALLOW EQUIPMENT, PIPING OR CONDUITS TO COME INTO DIRECT CONTACT WITH BUILDING WALLS OR FLOORS. COORDINATE INSTALLATION AMONG ALL TRADES. PROVIDE ALL NECESSARY TRANSITIONS AND OFFSETS TO INSURE COMPLETE COORDINATED INSTALLATION.

13. PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING AND CONDUIT. REPAIR ALL WALLS, CEILINGS AND FLOORS, PENETRATED. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES THAT MATCH EXISTING CONSTRUCTION. ALL PENETRATIONS IN FIREWALLS SHALL BE SEALED WITH SUITABLE MATERIALS TO PRESERVE FIREWALL INTEGRITY BY CERTIFIED PERSONNEL TRAINED IN FIRESTOPPING APPLICATIONS. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF MWAA AND ENGINEER.

14. THE CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS NECESSARY FOR DEMOLITION AND CONSTRUCTION PHASES OF WORK. ALL TEMPORARY WORK SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. TEMPORARY POWER SHALL BE 120V UNLESS REQUIRED OTHERWISE.

15. THE CONTRACTOR SHALL TEST ALL EQUIPMENT PROVIDED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER ITS PROPER OPERATION.

16. ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED IN FULL FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

17. THE CONTRACTOR SHALL NOTIFY THE ENGINEER THRU MWAA WHEN THE PROJECT IS APPROXIMATELY 95% COMPLETE TO SCHEDULE A PRE-FINAL REVIEW OF CONSTRUCTION. NO WORK SHALL BE CONCEALED BY CEILINGS, WALLS, ETC. PRIOR TO THE PRE-FINAL REVIEW OF CONSTRUCTION. FINAL REVIEW SHALL BE SCHEDULED AT 100% COMPLETION. THE CONTRACTOR SHALL COMPLETE ALL PUNCH LIST ITEMS BEFORE SUBMITTING FOR FINAL ACCEPTANCE.

18. THE CONTRACTOR SHALL PROVIDE COPIES OF MANUFACTURER'S PUBLISHED OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL SERVICEABLE EQUIPMENT PROVIDED UNDER THIS CONTRACT PER THE SPECIFICATIONS. OPERATING AND MAINTENANCE INSTRUCTIONS SHALL BE PRESENTED TO THE MWAA, BOUND IN A SINGLE BOOKLET AND TABBED BY SYSTEM, BEFORE THE PRE-FINAL REVIEW OF CONSTRUCTION.

19. PRODUCTS CONTAINING ASBESTOS OR PCB'S ARE NOT PERMITTED FOR USE ON THIS PROJECT.

FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
•	NEW ORDINARY HAZARD PENDENT SPRINKLER – QUICK RESPONSE		
✕	EXISTING PENDENT SPRINKLER TO BE REMOVED		
⊕	CONNECT TO EXISTING		
X / X	INDICATES DETAIL LETTER (APPLIES ONLY WHERE INDICATED ON DRAWINGS) / INDICATES DRAWING ON WHICH DETAIL APPEARS	PARTIAL PLAN/DETAIL TAG	

NO.	REVISION	DATE

PGAL
201 N.UNION ST.
SUITE 500
ALEXANDRIA,
VIRGINIA 22314
[T] 703 836 0588
[F] 703 836 8027

DATE August 31, 2011
SCALE NONE
DESIGNED DLW
CHECKED RDZ
DRAWN DLW
ACCEPTED BJL
SUBMITTED DRH
APPROVED FDH

METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

OFFICE OF ENGINEERING
DESIGN DEPARTMENT

GATE A23/25 - A31
STERILE CORRIDOR RENOVATION
WASHINGTON DULLES INTERNATIONAL AIRPORT
WASHINGTON, DC

FIRE PROTECTION NOTES & SYMBOLS LEGEND

PROJECT IDENTIFIER: IT1111
SHEET NAME: FP00.001
VOLUME NUMBER: 1 of 1
SHEET NUMBER: 13 of 35

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