

FIRE STANDPIPE SYSTEM NOTES


REROUTING AND/ OR TEMPORARY REMOVAL NOTES

- 2.1 ALL DRAWINGS ARE DIAGRAMMATIC. THE DRAWINGS DO NOT SHOW ALL REQUIRED FITTINGS, NOR THE PIPE OFFSETS TO HAVE THE PIPE RUN CONTOURED TO THE CEILINGS AND WALLS AND/OR TO ALLOW FOR DRAINAGE; ETC. NOR THE LENGTHS OF PIPE RUNS; NOR VERTICAL PIPE OFFSETS TO COMPLY WITH CLEARANCE REQUIREMENTS. VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD AND DEPICT ALL ON THE DETAILED FABRICATION DRAWINGS.
- 2.2 THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING OF THE EXISTING STRUCTURE AS REQUIRED TO CONSTRUCT THE FIRE STANDPIPE SYSTEM.
- 2.3 THE CONTRACTOR SHALL SUBMIT DETAILED FABRICATION DRAWINGS SHOWING PIPING LAYOUTS INCLUDING THE METHOD & LOCATION OF THE SUPPORTS, ANCHORS, GUIDES, PIPE LENGTH, FITTINGS & ALL OTHER ELEMENTS OF THE FIRE STANDPIPE SYSTEM IDENTIFIED IN 2.1 FOR APPROVAL BY NYCT.
- 2.4 THE CONTRACTOR SHALL SUBMIT CATALOG CUTS FOR PIPE, FITTINGS, HANGERS, SUPPORTS, VALVES, SIAMESE, ETC., FOR APPROVAL BY NYCT.
- 2.5 ALL SUPPORTS TO BE CONSTRUCTED OF STEEL AND SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND FIELD PAINTED TO MATCH SURROUNDING WALLS, CEILING, OR COLUMNS.
- 2.6 THE MAXIMUM DISTANCE BETWEEN THE SUPPORTING DEVICES SHALL BE AS PER THE SPECIFICATIONS AND THE PIPE SUPPORT DETAIL DRAWING.
- 2.7 PIPING UNDER SIDEWALK SHALL BE INSTALLED AT A MINIMUM DEPTH OF 2'-0".
- 2.8 A) THE ENTIRE STANDPIPE SYSTEM (PIPING AND SUPPORTS), SHALL BE PAINTED SAFETY RED. ALL PAINT SHALL BE APPLIED AT A MINIMUM TEMPERATURE OF 50°F, USING PITTSBURGH PAINT AS FOLLOWS:
PRIMER: 97-946 "A" ALL WEATHER PITT-GUARD
97-949 "B" CATALYST
TOPCOAT: 95-2400 "A" NEUTRAL BASE MIXED TO SAFETY RED
95-249 "B" CATALYST
B) THE ENTIRE SOUND POWERED TELEPHONE CONDUIT SYSTEM SHALL BE PAINTED TO MATCH THE SURROUNDS AS PER DIVISION 9A OF THE SPECIFICATIONS.
- 2.9 HOSE VALVE ELEVATION SHALL BE ESTABLISHED PER CABINET DETAILS IN THESE DRAWINGS.
- 2.10 IN GENERAL THE STATION PITCHES OVER ITS ENTIRE LENGTH. CONTRACTOR IS TO ASCERTAIN THE PITCH AND ACCORDINGLY SUSPEND THE PIPE MAIN TO ACCOMMODATE DRAINAGE OF THE SYSTEM. PIPING SHALL BE PITCHED A MINIMUM OF 1/4-INCH PER 10 FT. HORIZONTAL PIPING LOCATED IN CONCRETE FLOOR SHALL NOT BE PITCHED.
- 2.11 ALL EXTRA PIPE USED IN THE STANDPIPE SYSTEM SHALL BE NEW. EXISTING PIPE THAT IS REMOVED CAN BE REUSED.
- 2.12 PIPE 3" AND ABOVE FOR STANDPIPE SYSTEM SHALL BE DUCTILE IRON ANSI/AWWA THICKNESS CLASS 53, UNLINED AND WITHOUT ANY COATING. PIPE 2 1/2" AND BELOW SHALL BE SCH-80 GALVANIZED STEEL PIPE.
- 2.13 STYLE 307 VICTAULIC COUPLINGS AND NO. 27 STANDPIPE TEE SHALL BE USED TO FEED 2 1/2" BRANCHES FROM THE 4" MAIN.
- 2.14 STANDARD WEIGHT PATTERN THREADED MALLEABLE IRON FITTINGS SHALL BE USED FOR ALL PIPING 2 1/2" OR LESS IN DIAMETER. VICTAULIC FITTINGS WILL NOT BE PERMITTED FOR 2 1/2" PIPE.
- 2.15 SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES SHALL BE FURNISHED AND INSTALLED WHERE PIPES PASS THROUGH WALLS OR FLOORS AND THE WALL AND FLOOR SHALL BE PATCHED.
- 2.16 COUPLINGS SHALL BE COMPATIBLE WITH GROOVED DUCTILE IRON PIPE; STYLE-31 WITH GRADE-M GASKET AND PLATED STEEL BOLTS AND NUTS AS MANUFACTURED BY VICTAULIC COMPANY OR APPROVED EQUAL. RIGID RADIUS CUT GROOVES SHALL BE USED AT VALVE CONNECTIONS.
- 2.17 PIPE EXPANSION - PROVIDE VICTAULIC STYLE-31 FLEXIBLE RADIUS CUT GROOVES AT ALL COUPLINGS IN STRAIGHT PIPING RUNS. EMPLOY RIGID RADIUS CUT GROOVES AT ALL ELBOWS.
- 2.18 PIPE EXPANSION PROVISIONS PER NOTE 2.17 SHALL NOT BE PROVIDED FOR PIPING NOT EXPOSED TO VIEW. PIPING UNDER PLATFORM EDGE IS CONSIDERED AS EXPOSED TO VIEW.
- 2.19 THE ENTIRE FIRE STANDPIPE INSTALLATION SHALL BE MANUFACTURED, TESTED AND INSTALLED TO CONFORM TO THE APPLICABLE CURRENT PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE EXCEPT WHERE OTHER REQUIREMENTS ARE SPECIFIED ELSEWHERE IN THE SPECIFICATION OR SHOWN ON THE CONTRACT DOCUMENTS.
- 2.20 THE ENTIRE FIRE STANDPIPE INSTALLATION SHALL BE MANUFACTURED, TESTED AND INSTALLED TO CONFORM TO THE APPLICABLE CURRENT PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE EXCEPT WHERE OTHER REQUIREMENTS ARE SPECIFIED ELSEWHERE IN THE SPECIFICATION OR SHOWN ON THE CONTRACT DOCUMENTS.
- 2.21 ALL PIPE USED IN THE STANDPIPE SYSTEM SHALL BE MARKED INDICATING THE PRESSURE TO WHICH THE PIPE WAS TESTED WHEN MANUFACTURED.
- 2.22 ALL PIPING, UPON COMPLETION SHALL BE HYDROSTATIC ALLY PRESSURE TESTED BY THE CONTRACTOR PER THE SPECIFICATIONS. IN ADDITION TO REQUIRED AUTHORITIES, THE PRESSURE TEST SHALL ALSO BE WITNESSED BY THE OFFICE OF SYSTEM SAFETY OF THE NYC TRANSIT. A 2 WEEK ADVANCE WRITTEN NOTICE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO TESTING.
- 2.23 ROUTING OF PIPING AND POSITIONING OF CABINETS WILL REQUIRE REMOVALS AND/OR RELOCATIONS OF ITEMS SUCH AS COLUMN STATION IDENTIFICATION SIGNS; HANGING STATION SIGNS; STATION SPEAKERS; ETC. DRAWINGS DO NOT SPECIFICALLY NOTE ALL SUCH ITEMS. HOWEVER, SUCH REMOVALS AND/OR RELOCATIONS ARE INCLUDED IN THE SCOPE OF THE PROJECT AND SHALL BE PERFORMED BY THIS CONTRACTOR. ALL SUCH ITEMS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO DOING WORK.
- 2.24 2 1/2" FSP PIPE SHALL ONLY FEED ONE CABINET. THE 2 1/2" FSP PIPE SHALL NOT HAVE A RUNNING LENGTH LONGER THAN 100 FT. IF THIS CANNOT BE ACHIEVED, IT SHALL BE BROUGHT TO ENGINEER'S ATTENTION.
- 2.25 IN GENERAL, DISTANCE FROM UNDERSIDE OF PIPE HANGERS FROM FLOOR SHALL BE AS INDICATED ON THE DRAWINGS. WHEN NOT INDICATED THE PIPING SHALL BE AS HIGH AS POSSIBLE BUT SHALL NOT BE LESS THAN 6'-8" ABOVE THE FINISHED FLOOR.
- 2.26 REQUIREMENTS OF SOUND POWERED TELEPHONE:
A. THIS SYSTEM, IN PART, CONSISTS OF 3/4" CONDUIT AND TELEPHONE QUAD CABLE, ROUTED PARALLEL TO THE STANDPIPE MAIN AND BRANCH PIPING, CONNECTED TO TELEPHONE OUTLET ENCLOSURES ESTABLISHED WITHIN THE FIRE VALVE CABINETS AND AT THE SIAMESE.
B. APPLICABLE SPECIFICATIONS SECTIONS :
19J - SOUND POWERED TELEPHONE SYSTEM
19D - COMMUNICATION WIRE AND CABLE
16D - CONDUITS, TROUGHS, BOXES AND FITTINGS
C. MATERIALS
REQUIRED CONDUITS PER 16D, PARAGRAPH 2.1
QUAD TELEPHONE CABLE PER 19D, PARAGRAPH 2.2 c.1(b)
- 2.27 PIPING LAYOUTS SHOWN ARE BASED ON FIELD SURVEYS JUST PRIOR TO THE COMMENCEMENT OF LIGHTING UPGRADE INSTALLATIONS. CONTRACTOR IS TO VERIFY EACH LAYOUT RELATIVE TO THAT COMPLETED INSTALLATION AND PROPOSE ANY SO MADE NECESSARY CHANGES ON HIS FABRICATION SUBMITTAL DRAWINGS FOR NYCT APPROVAL. CHANGES MADE NECESSARY BY SUBSEQUENT COMPLETED OR IN-CONSTRUCTION STATION PROJECTS ARE ALSO TO BE INCORPORATED IN THE CONTRACTORS' FABRICATION SUBMITTAL DRAWINGS. ALL CHANGES ARE INCLUDED IN THE SCOPE OF THIS PROJECT.
- 2.28 FOR STANDARD FIRE STANDPIPE SIGNAGE, PLEASE CONTACT THE CONSTRUCTION MANAGER'S OFFICE AND NYCT SIGNAGE DEPARTMENT.
- 2.29 HANGER ROD SHALL NOT BE MORE THAN 24".
- 2.30 FOR ALL EXISTING FIRE STANDPIPE SYSTEM THAT REQUIRES MODIFICATIONS, THEN IT SHALL BE PERFORMED UNDER "THE PROCEDURES TO PLACE STANDPIPE SYSTEM OUT OF SERVICE" AS SET BY THE OSS OF NYCT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS FOUND DURING TESTING IN THE PORTIONS OF THE STANDPIPE SYSTEM THAT WAS MODIFIED UNDER THIS CONTRACT PLUS 20 FEET ON BOTH SIDES OF EACH MODIFICATION THE REPAIR OF ANY LEAKS OR DEFECTS OUTSIDE THE LIMITS DESCRIBED ABOVE WILL BE CONSIDERED ADDITIONAL WORK.
- 2.31 CHECK VALVES .
- 2.32 AUTOMATIC DRAIN VALVE SHALL BE PLACED AT ALL LOW POINTS IN THE SYSTEM.

1. A) RE-ROUTING OF FSP:
THE EXISTING DRY FSP SHALL BE RE-ROUTED AS PER THE CONTRACT DRAWINGS.
- B) OFFICE OF SYSTEM SAFETY (OSS) NOTES TO PLACE A STANDPIPE SYSTEM TEMPORARILY OUT OF SERVICE:
1) THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER'S OFFICE (CM) TO SUBMIT A WRITTEN REQUEST TO OSS AT LEAST 3 WEEKS PRIOR TO THE CONTRACTOR PLACING THE SYSTEM OUT OF SERVICE. THE REQUEST LETTER SHALL INCLUDE THE NAME/ CONTRACT NOS. OF THE CONTRACTOR, THE CM'S OFFICE, THE LOCATION OF THE STANDPIPE SYSTEM, THE DATE/ TIME AND DURATION THAT THE STANDPIPE SYSTEM WILL BE OUT OF SERVICE. NOTE THAT AN APPROVED REQUEST IS VALID FOR A PERIOD OF 72 HOURS. ANY REQUEST FOR AN EXTENSION BEYOND 72 HOURS SHALL BE SUBMITTED TO OSS PRIOR TO THE END OF THE FIRST 72 HOUR PERIOD.
- 2) THE CM'S OFFICE WILL NOTIFY THE APPROPRIATE OPERATING DEPARTMENTS (MOW, RTO AND STATIONS) THAT THE STANDPIPE SYSTEM WILL BE OUT OF SERVICE. OSS WILL NOTIFY THE FIRE DEPARTMENT THAT THE STANDPIPE SYSTEM WILL BE OUT OF SERVICE.
- 3) AFTER OSS APPROVES THE REQUEST, THE CONTRACTOR MAY PUT THE STANDPIPE SYSTEM OUT OF SERVICE BY COVERING AND TAGGING ALL FIRE DEPARTMENT CONNECTIONS AND FIRE VALVE CABINETS AS BEING OUT OF SERVICE.
- C) TEMPORARY REMOVAL OF FSP:
EXISTING 4" FIRE STANDPIPE BETWEEN THE LOCATION AS SHOWN ON CONTRACT DRAWING SHALL BE CAREFULLY REMOVED AS PER PROCEDURE SET BY THE OFFICE OF SYSTEM SAFETY (OSS). BEFORE BEGINNING OF THIS WORK, CONTRACTOR SHALL CONTACT OSS REGARDING THIS PROCEDURE. THIS REMOVAL MAY ALLOW FOR INSTALLATION OF STRUCTURAL MEMBERS. AFTER THE COMPLETION OF RELATED WORK, THE SAME FIRE STANDPIPE SHALL BE INSTALLED BACK TO ITS POSITION WITH APPROPRIATE SUPPORTS.
2. AFTER COMPLETING THE RE-INSTALLATION OF THE FIRE STANDPIPE SYSTEM, THE ENTIRE STANDPIPE SYSTEM SHALL BE TESTED AND INSPECTED. ADVANCE NOTIFICATION SHALL BE GIVEN TO THE AUTHORITY OF DATE OR DATES, WHEN THE TESTS AND INSPECTIONS ARE TO BE PERFORMED. THE CONTRACTOR SHALL SUBMIT TESTING PROCEDURE TO THE NYCTA FOR APPROVAL PRIOR TO PERFORM ANY TESTING.
3. THE CONTRACTOR SHALL IN THE PRESENCE OF THE ENGINEER AND REPRESENTATIVES OF THE VARIOUS DEPARTMENTS HAVING JURISDICTION TEST THE EXISTING FIRE LINES AND APPURTENANCES BY APPLYING 300 POUNDS OF HYDROSTATIC PRESSURE AT THE SIAMESE CONNECTIONS FOR NO LESS THAN ONE (1) HOUR. UPON SUCCESSFUL HYDROSTATIC TESTING, FIRE LINES SHALL BE DRAINED AND REMAIN DRY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS FOUND DURING TESTING IN THE PORTIONS OF THE STANDPIPE SYSTEM THAT WAS MODIFIED UNDER THIS CONTRACT PLUS 20 FEET ON BOTH SIDES OF EACH MODIFICATION. THE REPAIR OF ANY LEAKS OR DEFECTS OUTSIDE THE LIMITS DESCRIBED ABOVE WILL BE CONSIDERED ADDITIONAL WORK.
5. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL AND LABOR REQUIRED AND OTHER EXPENSES INCURRED TO CONDUCT THE TESTS REQUIRED BY THESE NOTES AND THE VARIOUS DEPARTMENTS HAVING JURISDICTION.
6. IF FSP NEED TO BE RELOCATED ALONG WITH SOUND POWER CONDUITS, IT SHALL BE DONE AS PER COMMUNICATION SPECIFICATION.
7. THE FOLLOWING SIGNS MUST BE PROVIDED OR RELOCATED AS REQUIRED:
A) ON EACH HOSE VALVE CABINET, A PLASTIC SIGN SHALL BE PERMANENTLY MOUNTED (SCREWED TO THE CABINET. THE SIGN SHALL READ "FDNY STANDPIPE OUTLET".
B) A CEILING OR WALL-MOUNTED SIGN SHALL BE MOUNTED PERPENDICULAR TO THE WALL OR COLUMN ABOVE EVERY FIRE VALVE CABINET. THIS SIGN BE A 12" X 12" METAL SIGN AND MUST BE LOCATED APPROXIMATELY 7'-0" ABOVE THE FINISHED FLOOR. THIS SIGN SHALL BE THE STANDARD FIRE SAFETY SYMBOL #4-2.9 FOUND IN NFPA 170, FIRE SAFETY SYMBOLS.
8. CONTRACTORS SHALL FOLLOW GUIDELINES AND THE PROCEDURES AS STATED IN THE NYCT POLICY INSTRUCTION 10.23.1 ISSUED JULY 3, 2013.

ABBREVIATIONS

ADV	AUTOMATIC DRAIN VALVE	DI	DUCTILE IRON
FVC	FIRE VALVE CABINET	NPT	NATIONAL PIPE THREAD
AFF	ABOVE FINISHED FLOOR	FDNY	FIRE DEPT. NEW YORK
FSP	FIRE STANDPIPE	NYCT	NEW YORK CITY TRANSIT
FM	FACTORY MUTUAL (RESEARCH CORPORATION)	B. of R.	BASE OF RAIL
4" FSP	4" FIRE STANDPIPE MAIN	N.T.S.	NOT TO SCALE
N.I.C.	NOT INCLUDED IN CONTRACT	2 1/2" FSP	2 1/2" FIRE STANDPIPE BRANCH

0	CONFORMED DRAWING	12/6/18	
REVISION	DESCRIPTION	DATE	APPROVED
 New York City Transit Authority		CONTRACT A-46023 STATION RENEWAL AT 138TH STREET-GRAND CONCOURSE STATION JEROME LINE (IRT) IN THE BOROUGH OF THE BRONX	
DEPARTMENT OF CAPITAL PROGRAM MANAGEMENT MECHANICAL ENGINEERING		DRY FIRE STANDPIPE SYSTEM MODIFICATION NOTES AND SPECIFICATION	
DRAWN BY	R. LAAKE	SIGNED	DATE : 06/15/2018
DESIGNED BY	R. LAAKE	SIGNED	DRAWING NO.
CHECKED BY	B. PATEL P.E.	SIGNED	FP-001
APPROVED BY	N. GETZEL P.E.	SIGNED	REVISION 0