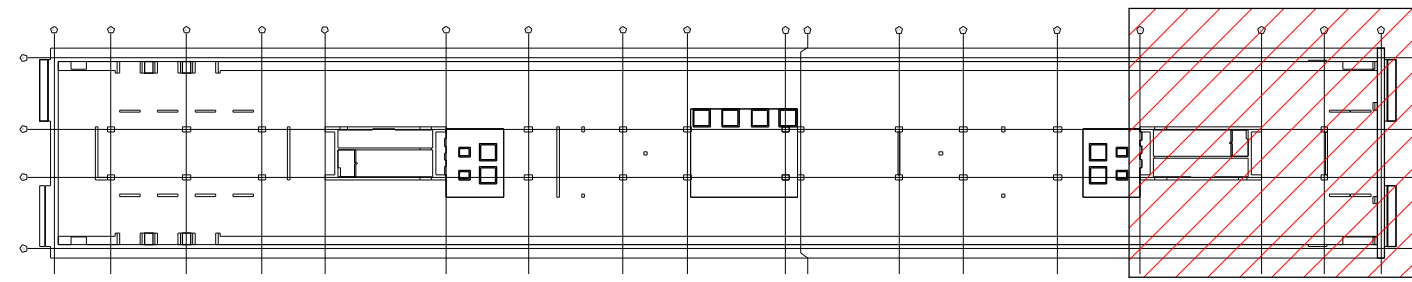
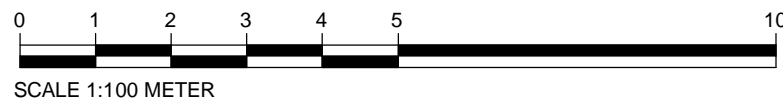
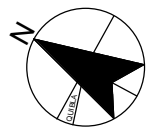
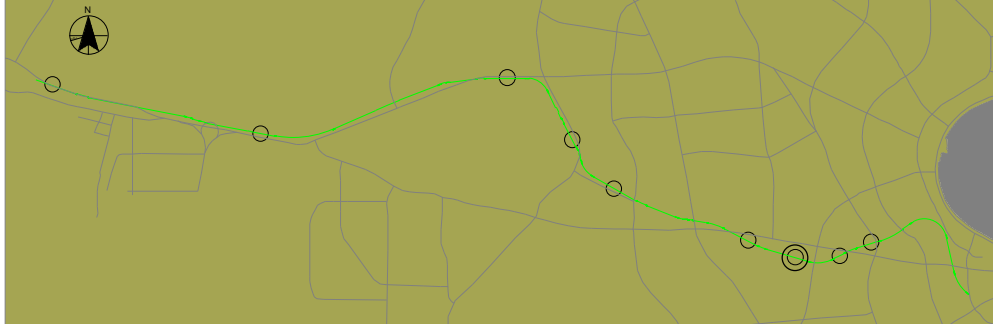


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KEY PLAN



NOTES

- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND PROJECT SPECIFICATIONS.
- FIRE FIGHTING PIPE, FITTINGS AND ALL ITEMS SHALL BE UL/FM AND QCDD APPROVED.
- SPRINKLER PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SHEATHING.
- WHERE SPRINKLER PIPING IS INSTALLED BELOW DUCTWORK, PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE SEPARATELY.
- THERE SHALL NOT BE LESS THAN ONE HANGER FOR EACH SECTION OF PIPE. THE DISTANCE BETWEEN A HANGER AND THE CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN 76 MM.
- RISERS SHALL BE SUPPORTED BY PIPE CLAMPS OR BY HANGERS LOCATED ON THE HORIZONTAL CONNECTIONS WITHIN 600 MM OF THE CENTERLINE OF THE RISER.
- DISTANCE BETWEEN SUPPORTS FOR RISER IN VERTICAL SHAFTS OR HIGH BAY AREAS SHALL NOT EXCEED 7.6 M.
- HOSE REELS AND HOSES SHALL BE INSTALLED IN LOCATIONS AS STATED IN THE PROJECT DOCUMENTATION UNLESS OTHERWISE DIRECTED BY THE CIVIL DEFENSE DEPARTMENT.
- PIPE WORK UP TO AND INCLUDING 50MM IN DIAMETER SHALL HAVE MALLEABLE IRON THREADED FITTING.
- ALL CONNECTIONS TO EQUIPMENT ARE VIA DISMANTLING DIELECTRIC UNIONS AND PIPE WORK OVER 50MM IN DIAMETER SHALL BE JOINED BY PROPRIETARY GROOVED JOINTING SYSTEM AND FLANGED JOINTS AT COMPONENT AND EQUIPMENT CONNECTIONS.

REFERENCES:

M008-ARE-ARC-MD3-GWST050-CL-00101.S4.P7
M008-ARE-ARC-MD3-GWST050-ZZ-00101.S4.P11
M008-HLQ-MEP-MD3-GWST050-PL-00101.RVT
M008-SSF-ARC-MD3-GWST050-CL-00301.S3.P16
M008-SSF-ARC-MD3-GWST050-ZZ-00101.S3.P19
M008-SSF-STR-MD3-GWST050-CL-00301.S3.P14
M008-SSF-STR-MD3-GWST050-ZZ-00101.S3.P24

SCHEMATICS AND DETAIL INSTALLATION REFERENCES :

M008-RGP-FRS-DWG-GWST050-AA-10031-35
M008-HLQ-FRS-DWG-GWST050-AA-10001-02

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|----|----------------------------------|----|------------|----|------------|
| C2 | ISSUED FOR CONSTRUCTION | | | | |
| MH | 30-12-2017 | JF | 30-12-2017 | IM | 30-12-2017 |
| C1 | ISSUED FOR CONSTRUCTION APPROVAL | | | | |
| NN | 13-11-2016 | IM | 13-11-2016 | MN | 13-11-2016 |

| | | |
|------------|----------------|----------------|
| SCALES @A1 | ISSUING OFFICE | PROJECT NUMBER |
| 1:100 | DOHA | M008 |

| |
|----------------------------|
| CLIENT APPROVAL |
| A - APPROVED |
| B - APPROVED WITH COMMENTS |
| C - DO NOT USE |

| | |
|--------|---------------------------|
| STATUS | PURPOSE OF ISSUE |
| S4 | FOR CONSTRUCTION APPROVAL |

CONTRACTOR
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P.O. BOX 207471 DOHA
QATAR



CONSULTANT:
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QATAR



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FAX: 06/72871393
Website: www.gruppospc.com
QATAR - ITALY



PROJECT
DESIGN & BUILD PACKAGE 4
GREEN LINE UNDERGROUND

TITLE
SHOP DRAWINGS STATION - AL RAYYAN / AL QADEEM UNDER PLATFORM LEVEL -
FIRE PROTECTION SERVICES (STATION EAST)

CLIENT
QATAR RAILWAYS COMPANY
P.O. BOX 29988 DOHA
QATAR



DRAWING NUMBER
M008-RGP-FRS-DWG-GWST050-UL-10001

REV
C2

8/4/2018 12:09:08 PM

QATAR RAILWAYS COMPANY

SHOP DRAWINGS STATION - AL RAYYAN / AL QADEEM UNDER PLATFORM LEVEL - FIRE PROTECTION SERVICES (STATION EAST)

SCALE : 1:100

DETAILS OF FIRE PIPE HANGERS AS PER NFPA

| PIPE SUPPORT SCHEDULE | | | | ROD & ANCHOR SCHEDULE | |
|-----------------------|-----------|----------------------------------|--|-----------------------|-----------------------|
| ITEM | PIPE SIZE | MAXIMUM SPACING BETWEEN SUPPORTS | MAXIMUM SPACING OF SUPPORTS TO A SPRINKLER | THREADED ROD SIZE | EXPANSION ANCHOR SIZE |
| 1 | 250 | 3.7 m | 0.90 m | M10 | M10 |
| 2 | 320 | 3.7 m | 1.20 m | M10 | M10 |
| 3 | 400 | 4.6 m | 1.50 m | M10 | M10 |
| 4 | 500 | 4.6 m | 1.50 m | M10 | M10 |
| 5 | 650 | 4.6 m | 1.50 m | M10 | M10 |
| 6 | 800 | 4.6 m | 1.50 m | M10 | M10 |
| 7 | 1000 | 4.6 m | 1.50 m | M10 | M10 |
| 8 | 1250 | 4.6 m | 1.50 m | M12 | M12 |
| 9 | 1500 | 4.6 m | 1.50 m | M12 | M12 |
| 10 | 2000 | 4.6 m | 1.50 m | M12 | M12 |
| 11 | 2500 | 4.6 m | 1.50 m | M16 | M16 |
| 12 | 3000 | 4.6 m | 1.50 m | M16 | M16 |

