



SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

Dawson City, Yukon



ISSUED FOR TENDER, REVISION 0

February 23, 2018

PWGSC Project Number : R. 075645.001

STANTEC Project Number : 144902580

DRAWING LIST

GENERAL

G-001 COVER SHEET

MECHANICAL

M100 SITE PLAN AND LEGENDS
M101 DEMOLITION PLAN: FOUNDATION AND HULL
M102 DEMOLITION PLAN: FREIGHT DECK & ABOVE AND VALVE HOUSE
M201 NEW SPRINKLER PLAN: FOUNDATION AND HULL
M202 NEW SPRINKLER PLAN: FREIGHT DECK & ABOVE AND VALVE HOUSE
M501 FIRE PROTECTION: SCHEMATICS & DETAILS
M502 FIRE PROTECTION: DETAILS 2

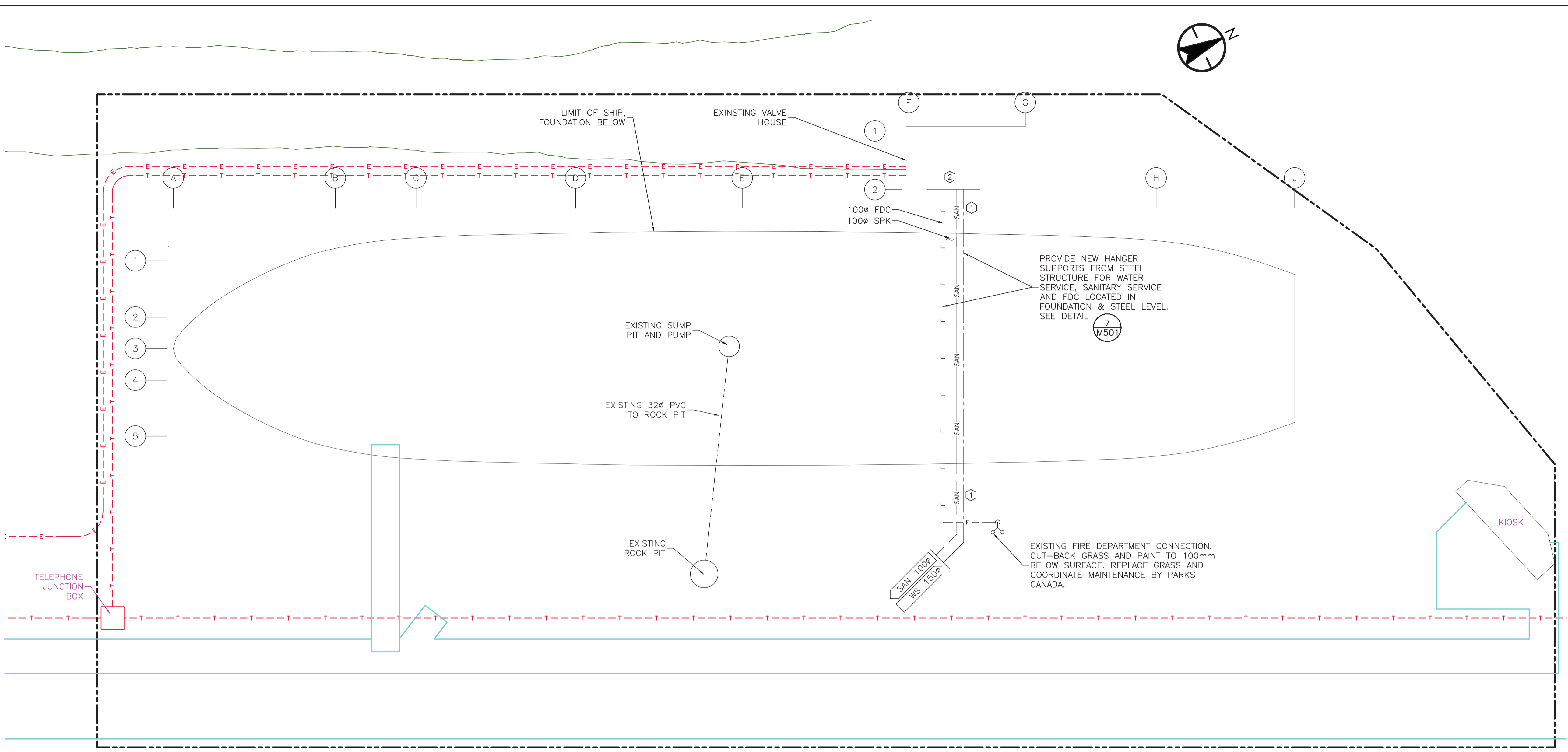
ELECTRICAL

E101 FIRE ALARM RISER DIAGRAM, PANEL, FIRE ALARM, AND MECHANICAL EQUIPMENT SCHEDULE, LEGEND.
E102 FOUNDATION & STEEL BEAM, HULL, AND FREIGHT FLOOR PLANS AND DETAILS.
E103 SALOON, BOAT, AND WHEELHOUSE DECK FLOOR PLANS.



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 Signature: [Signature]
 Date: February 23, 2018
 PERMIT NUMBER: PP315
 Association of Professional Engineers of Yukon
 144902580



SITE PLAN
 SCALE: 1:100

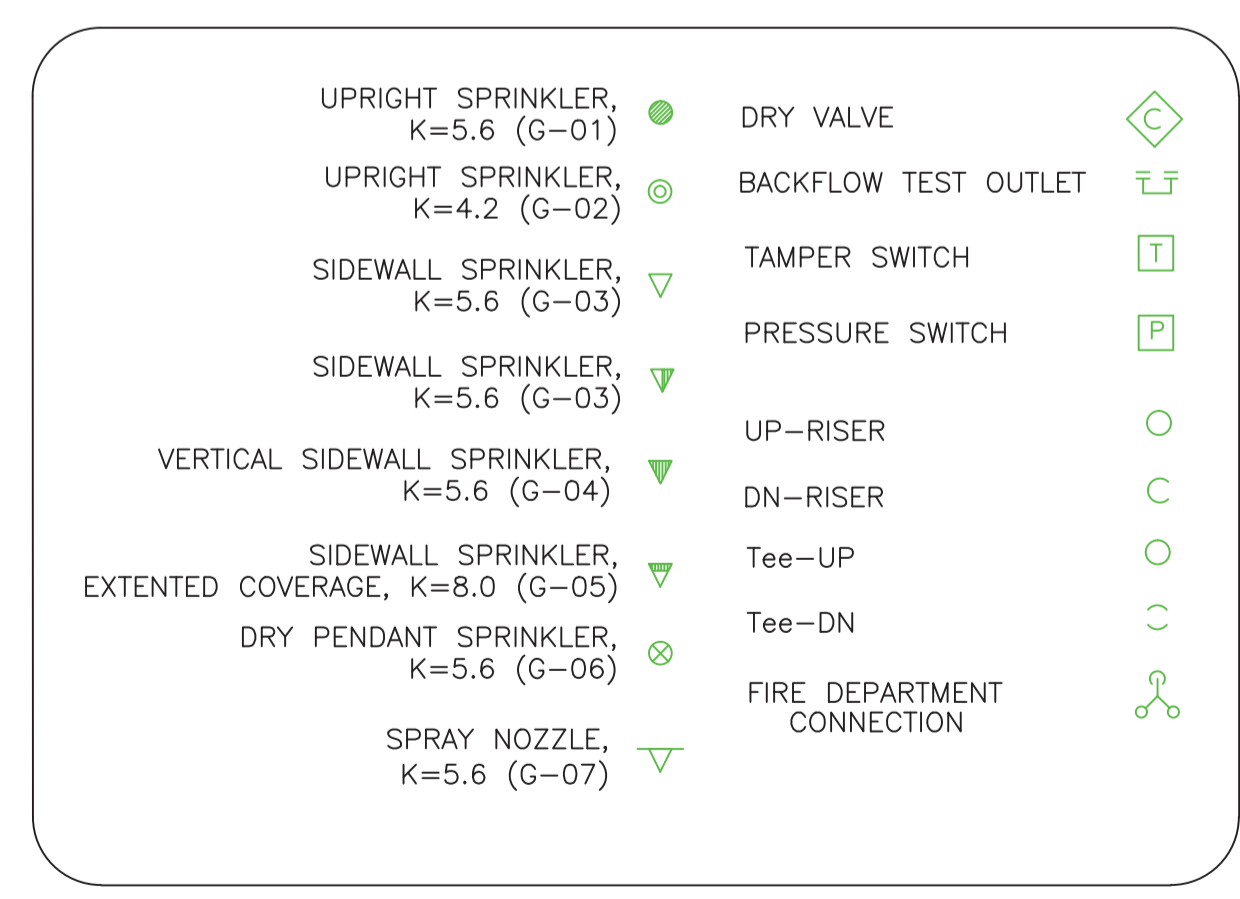
GENERAL NOTES:

1. THE S.S. KENO IS A NATIONAL HISTORIC SITE UNDER THE CUSTODIAL CARE OF PARKS CANADA. PROTECTION OF THE HERITAGE VALUE OF THE HISTORIC PLACE, AS OUTLINED IN THE S.S. KENO COMMEMORATIVE INTEGRITY STATEMENT, IS REQUIRED FOR THIS PROJECT. WORK SHALL CONFORM TO PARKS CANADA CULTURAL RESOURCE MANAGEMENT (CRM) POLICY. A DEPARTMENTAL REPRESENTATIVE WILL PROVIDE SITE REVIEWS DURING CONSTRUCTION TO ENABLE & ENSURE COMPLIANCE. EXERCISE CARE THROUGHOUT ALL STAGES OF THE SCOPE OF WORK. REFER TO SPECIFICATIONS.
2. WHERE WORK IS CARRIED OUT IN PROXIMITY TO HISTORIC FEATURES, REASONABLE MEASURES TO PROTECT THE EXISTING HISTORIC FABRIC AND EQUIPMENT FROM ACCIDENTAL DAMAGE ARE TO BE TAKEN. CONTRACTOR TO COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE TO PROVIDE APPROPRIATE PROTECTION OF EXISTING ARTIFACTS AND EQUIPMENT IN EXISTING AREAS OF THE SPRINKLER ZONE TO BE DEMOLISHED AND PROVIDED WITH SPRINKLER SYSTEM PRIOR TO STARTING OF CONSTRUCTION.
3. ALL ADJACENT AREAS DISTURBED BY THE SCOPE OF WORK TO BE MADE GOOD UPON COMPLETION, AS PER ACCEPTED CONSERVATION TECHNIQUES, AND IN COORDANCE WITH THE STANDARDS AND GUIDELINES FOR THE CONSERVATION OF HISTORIC PLACES IN CANADA.
4. EXISTING ROUTING OF SPRINKLER PIPING TO BE REUSED, EXCEPT WHERE ALTERNATIVE ROUTING IS INDICATED IN THE SPRINKLER PLANS. PUNCTURING, DRILLING OR PENETRATION OF HISTORIC FABRIC IS TO BE AVOIDED WHEREVER POSSIBLE. ANY PROPOSED CHANGES TO EXISTING ROUTING TO BE COORDINATED WITH HERITAGE DEPARTMENTAL REPRESENTATIVE FOR APPROVAL.
5. CUTTING, GRINDING AND SIMILAR HOT WORKS ARE FORBIDDEN IN COMBUSTIBLE AREA.

KEYNOTES

- ① LOCATIONS OF UNDERGROUND INSTALLATIONS HAVE BEEN PROVIDED BASED UPON INFORMATION FURNISHED BY OTHERS AND ACTUAL CONDITIONS MAY NOT BE ACCURATELY REPRESENTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UNDERGROUND INSTALLATIONS PRIOR TO CONDUCTING ANY WORK THAT COULD AFFECT, OR BE AFFECTED BY, THE UNDERGROUND INSTALLATIONS. STANTEC ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING UNDERGROUND INSTALLATIONS SHOWN OR FOR ANY ERRORS OR OMISSIONS THAT MAY BE REPRESENTED AS A RESULT OF INCORRECT INFORMATION PROVIDED TO STANTEC.
- ② EXISTING UNDERSLAB 100Ø SPRINKLER LINE FROM CONTROL BUILDING TO FOUNDATION LEVEL/CRAWL-SPACE TO REMAIN AND BE RE-USED.

FIRE PROTECTION LEGEND



PIPING IDENTIFICATION AND SYMBOLS



| Revision/Revisión | Description/Description | Date/Date |
|-------------------|------------------------------|-----------|
| 1 | ISSUED FOR TENDER REVISION 0 | 18/02/23 |
| 0 | ISSUED FOR PRELIMINARY 100% | 18/01/12 |

PARKS CANADA AGENCY
 WESTERN AND NORTHERN REGION

Project title/Titre du projet
DAWSON CITY YUKON TERRITORY

SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

Consultant Signature Only

Designed by/Concept par
 FX LAVALLÉE

Drawn by/Dessiné par
 S GIRARD NORTON

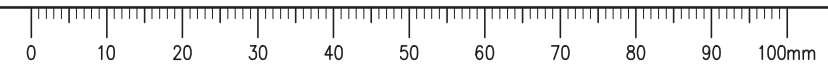
PWSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY

Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin
SITE PLAN AND LEGENDS

| | | |
|---|-----------------------|-----------------------------------|
| Project No./No. du projet R.075645.001 | Sheet/Fauille M100 | Revision no./La Révision no. 1 |
|---|-----------------------|-----------------------------------|

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 Association of Professional Engineers of Yukon
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SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

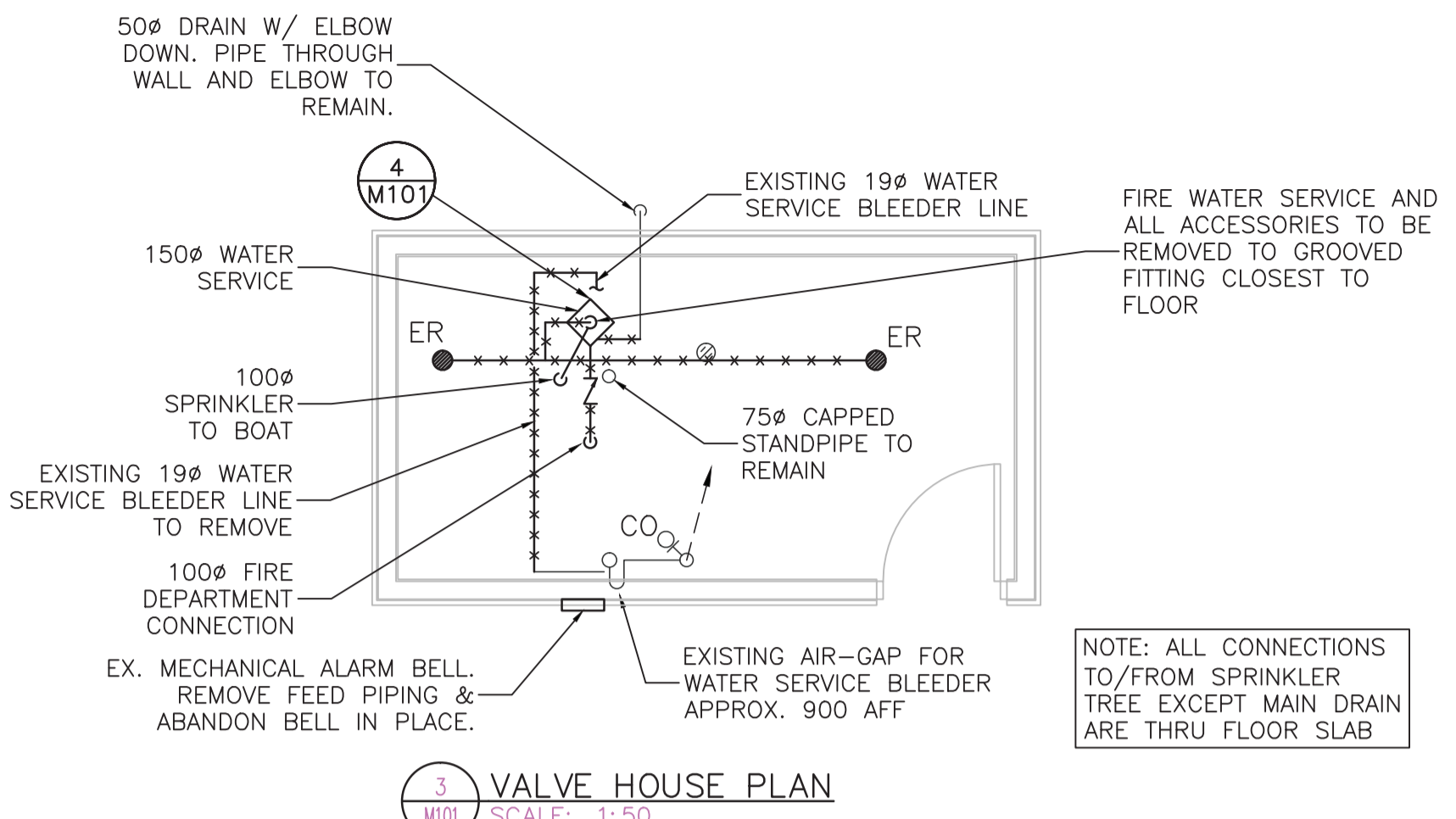
Client/client
DESIGNED BY/CONCEPT PAR: FX LAVALLEE
DRAWN BY/DESINE PAR: S GIRARD NORTON
PWOSC Project Manager/Administrateur de Projete TPSOC: TOM DUNPHY
 Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSOC

Drawing title/Titre du dessin
DEMOLITION PLAN: FOUNDATION AND HULL

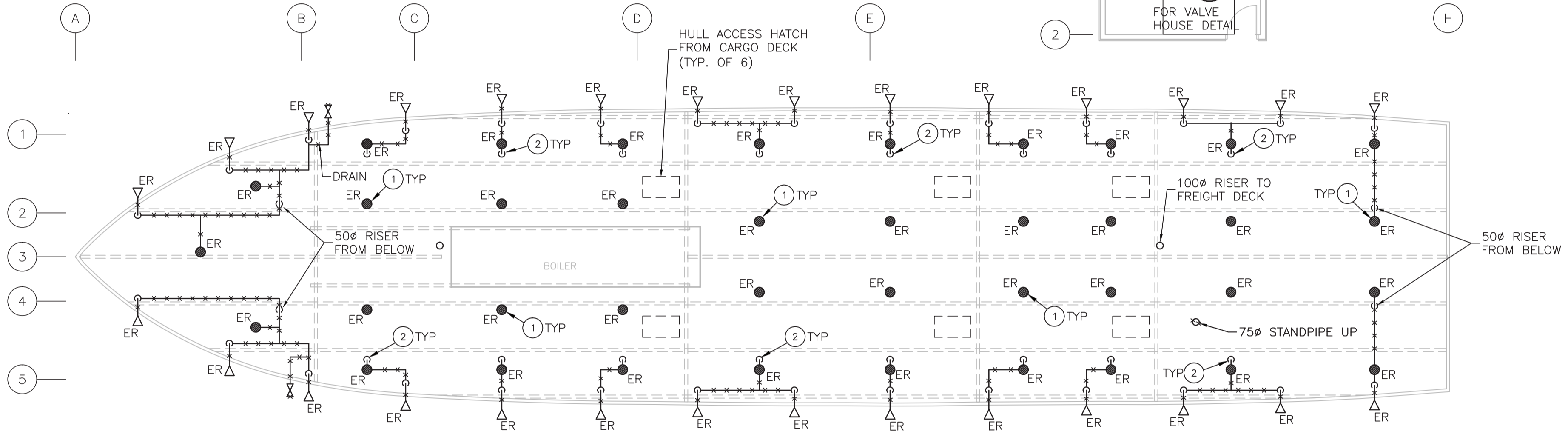
Project No./No. du projet: **R.075645.001**
 Sheet/Fauille: **M101**
 Revision no./La Révision no.: **1**

144902580

- SPRINKLER ALARM VALVE AND ACCESSORIES TO BE REMOVED TO GROOVED FITTING CLOSEST TO FLOOR
- MAIN DRAIN THRU BUILDING WALL
- WATER SERVICE ISOLATION VALVE TO REPLACE
- BIBB CONNECTION TO WATER SUPPLY TO REPLACE
- 100Ø DRY SYSTEM RISER TO BOAT TO REPLACE
- 150Ø WATER SERVICE 100Ø FROM FIRE DEPARTMENT CONNECTION TO REPLACE UP TO FIRST COUPLING
- 75Ø CAPPED STANDPIPE TO REMAIN



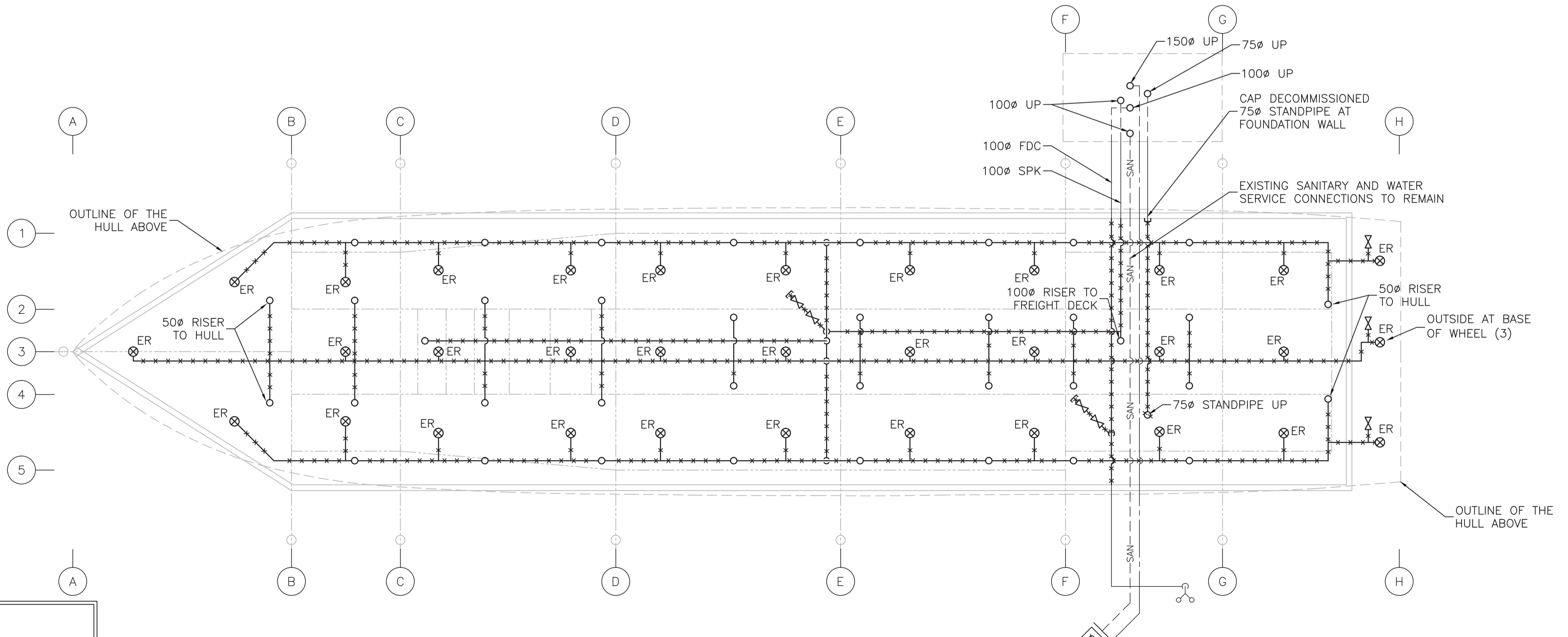
4 EXISTING FIRE WATER SERVICE PHOTO
 M101 SCALE: NTS



2 HULL PLAN
 M101 SCALE: 1:100

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 - CUTTING, GRINDING AND SIMILAR HOT WORKS ARE FORBIDDEN IN COMBUSTIBLE AREA.

- KEYNOTES**
- SPRINKLER HEAD ON TOP OF 25Ø RISER FROM BELOW
 - SPRINKLER HEAD ON TOP OF 32Ø RISER FROM BELOW

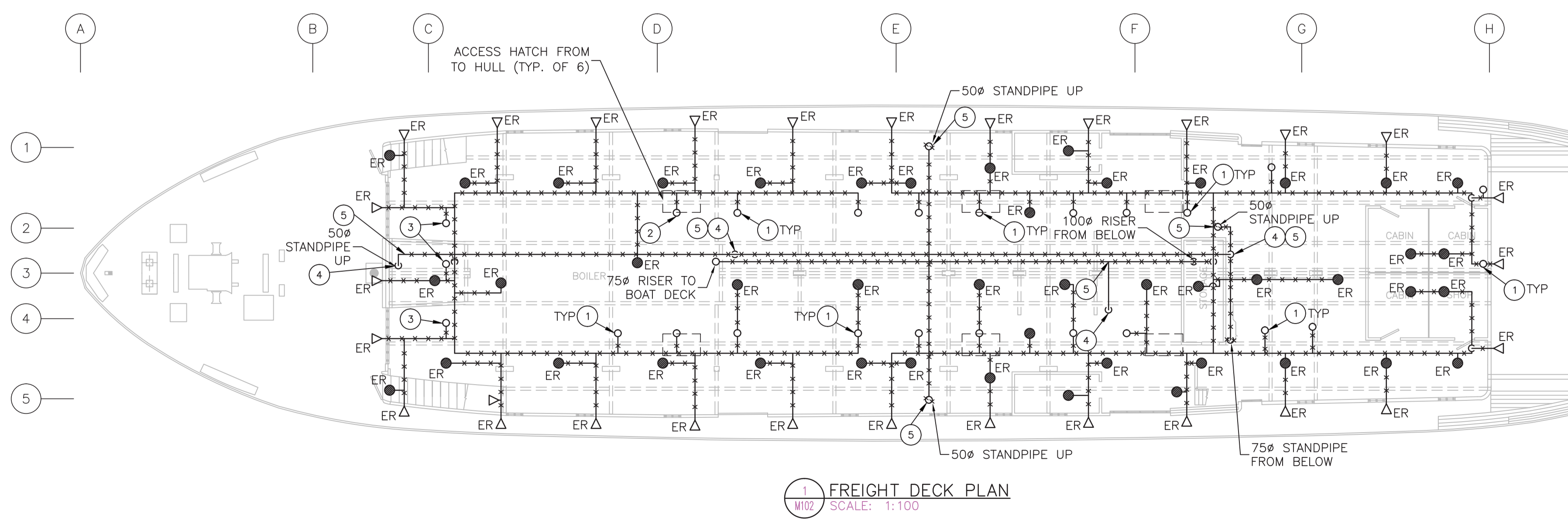
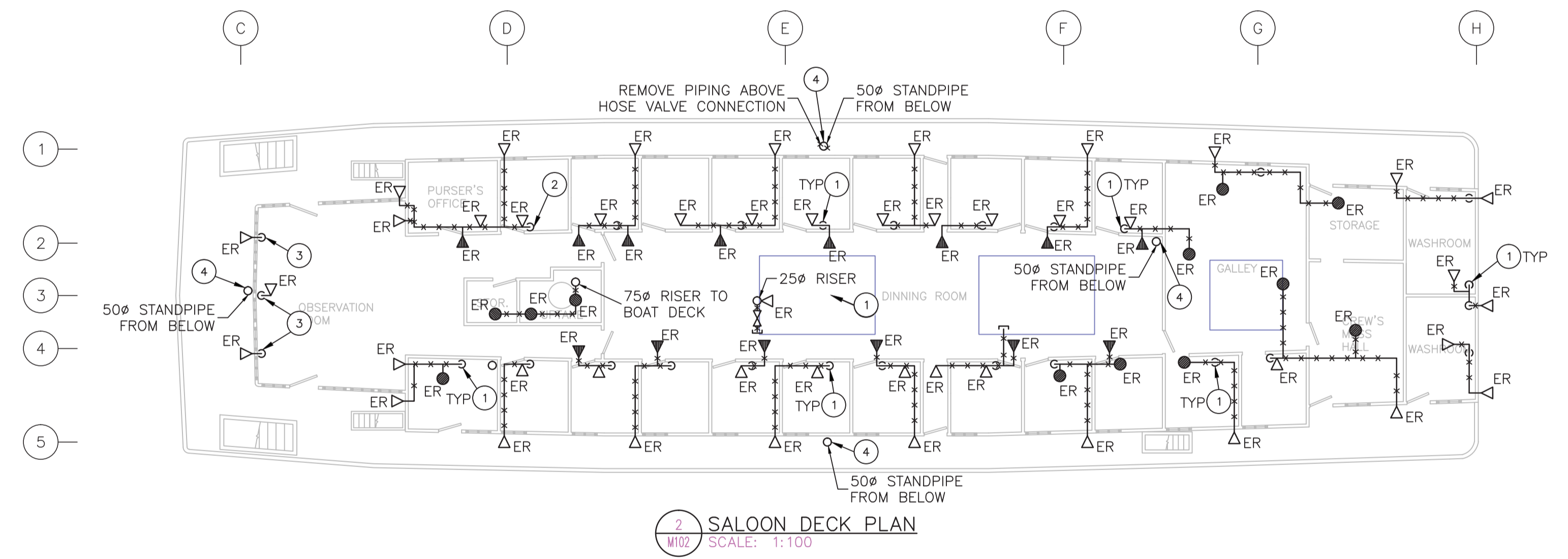
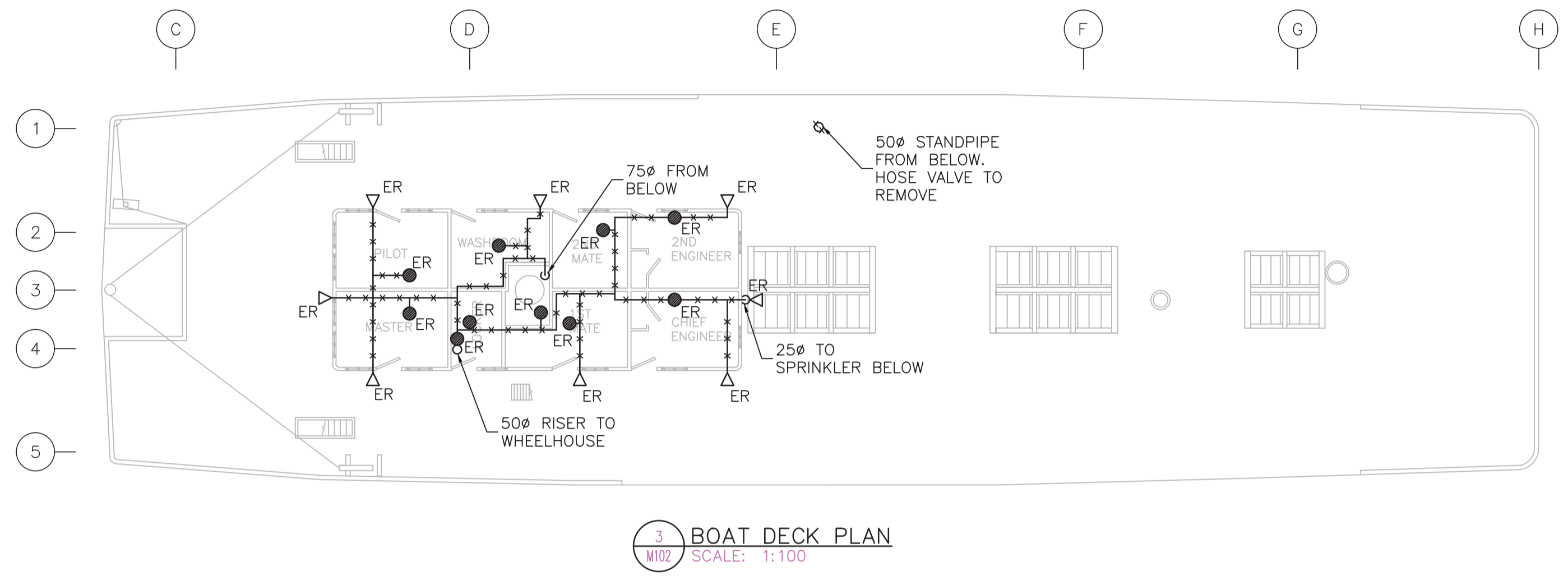
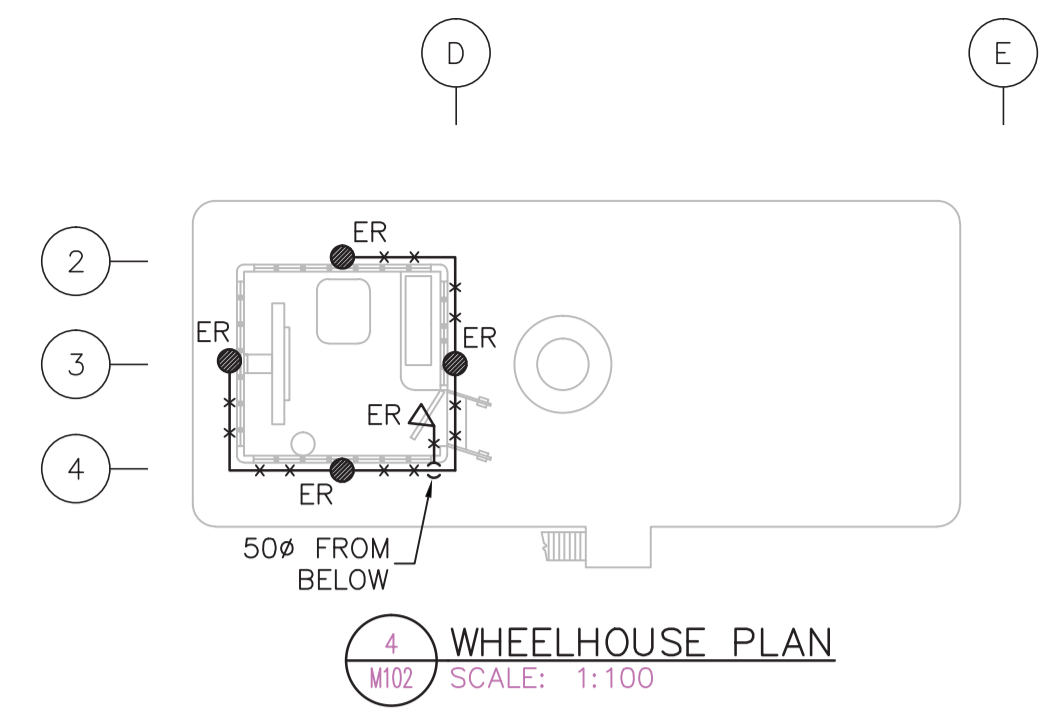


1 FOUNDATION & STEEL BEAM PLAN
 M101 SCALE: 1:100



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PERMIT NUMBER: PP315
 Association of Professional Engineers 44702580 of Yukon



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5. CUTTING, GRINDING AND SIMILAR HOT WORKS ARE FORBIDDEN IN COMBUSTIBLE AREA.

NOTES

1. STANDPIPES ARE HISTORIC AND SHALL BE REMOVED UP TO BRANCHLINE. HOSE VALVE SHALL BE REMOVED AND REPLACED BY NEW "OLD STYLE" HOSE VALVE PROVIDED BY THE DEPARTMENT REPRESENTATIVE
2. PROVIDE ADDITIONAL HANGERS TO SECURE REMAINING STANDPIPE BRANCHLINE

KEYNOTES

- 1 38ø RISER
- 2 50ø RISER
- 3 25ø RISER
- 4 FIRE DEPARTMENT HOSE VALVE TO BE REMOVED AND REPLACED BY NEW "OLD STYLE" HOSE VALVE PROVIDED BY THE DEPARTMENTAL REPRESENTATIVE
- 5 CAP REMAINING STANDPIPE WITH A THREADED CAP

| Revision/ | Description/Description | Date/Date |
|-----------|------------------------------|-----------|
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| 0 | ISSUED FOR PRELIMINARY 100% | 18/01/12 |

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PARKS CANADA AGENCY
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Project title/Titre du projet
DAWSON CITY
YUKON TERRITORY
SS KENO NATIONAL HISTORIC SITE
FIRE SUPPRESSION SYSTEM UPGRADE

Consultant Signature Only
 Designed by/Concept par: FX LAVALLEE
 Drawn by/Dessiné par: S GIRARD NORTON
 PWSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY
 Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
DEMOLITION PLAN:
FREIGHT DECK & ABOVE
AND VALVE HOUSE

| | | |
|---|---------------------|---------------------------------|
| Project No./No. du projet: R.075645.001 | Sheet/Fauille: M102 | Revision no./La Révision no.: 1 |
|---|---------------------|---------------------------------|

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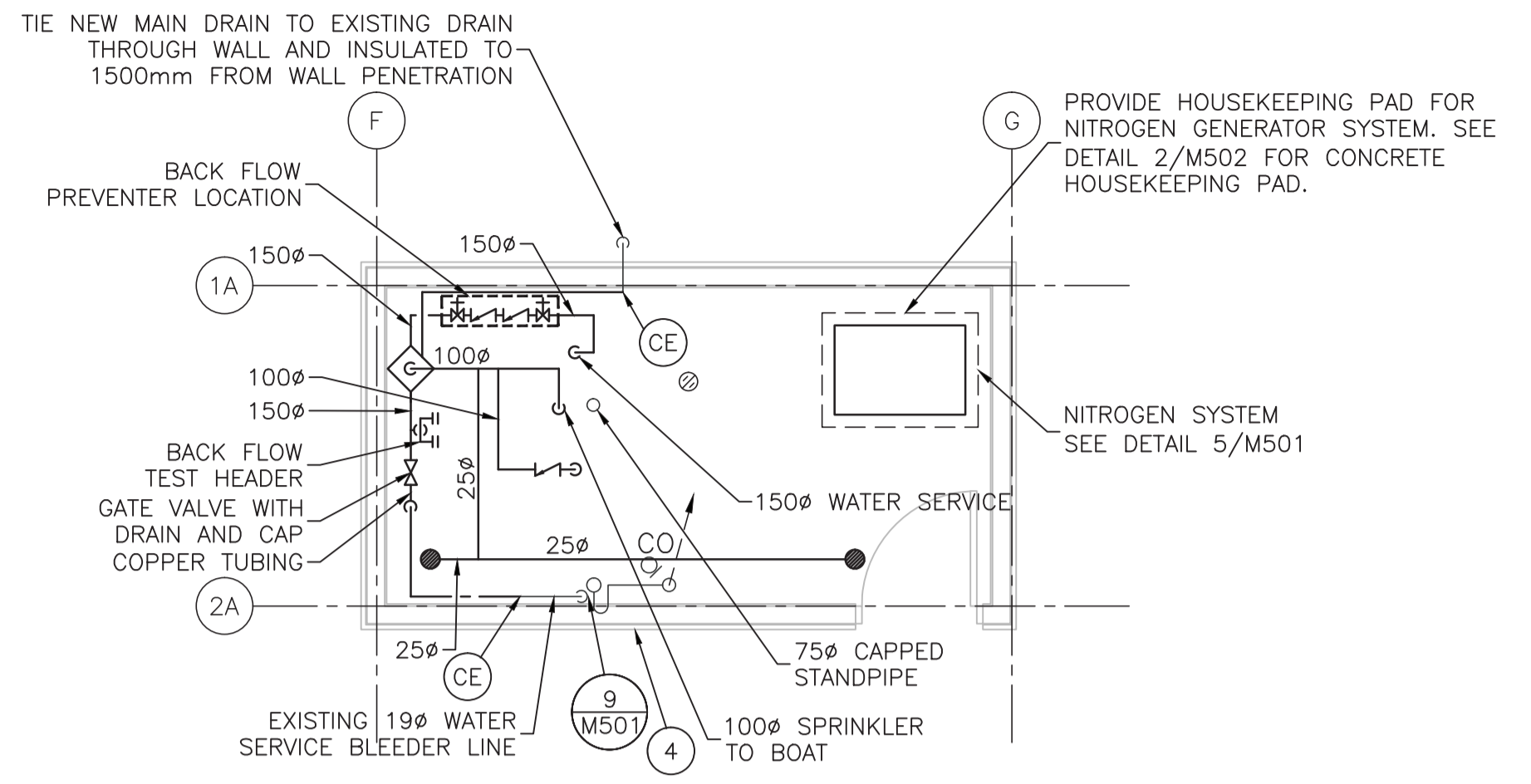


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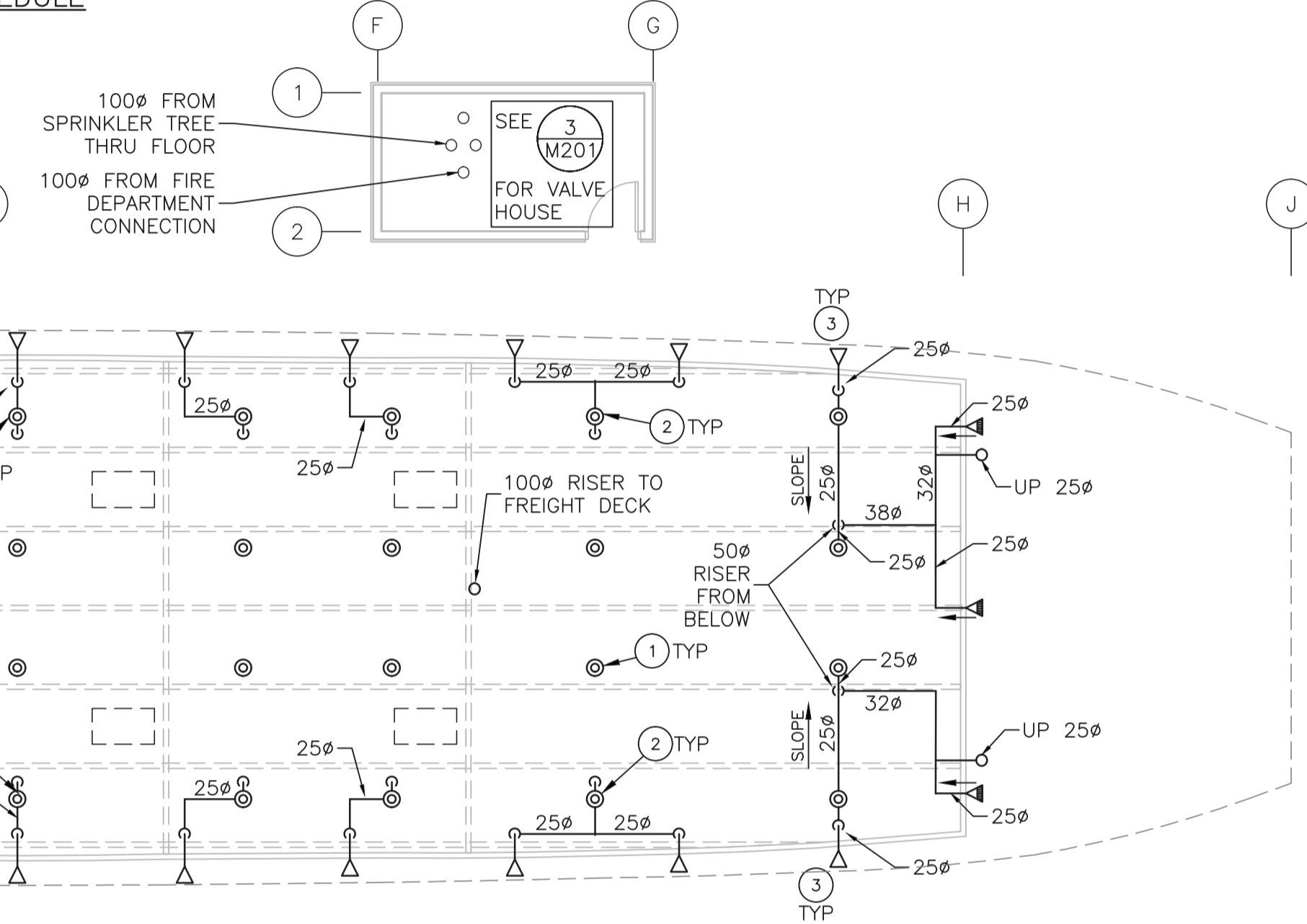
| FINISH SCHEDULE * | | |
|-------------------|--------------|--|
| LOCATION | PAINT | NOTES |
| FOUNDATION | NOT REQUIRED | PAINT EXTERIOR FACING FITTINGS & HEAD GUARDS |
| HULL | NOT REQUIRED | PAINT EXTERIOR FACING FITTINGS & HEAD GUARDS |
| FREIGHT DECK | WHITE | COORDINATE CUSTOM COLOURS TO MATCH EXISTING W/ DEPARTMENTAL REPRESENTATIVE FOR HERITAGE. |
| SALOON DECK | WHITE | COORDINATE CUSTOM COLOURS TO MATCH EXISTING W/ DEPARTMENTAL REPRESENTATIVE FOR HERITAGE. |
| BOAT DECK | WHITE | COORDINATE CUSTOM COLOURS TO MATCH EXISTING W/ DEPARTMENTAL REPRESENTATIVE FOR HERITAGE. |
| WHEELHOUSE | WHITE | COORDINATE CUSTOM COLOURS TO MATCH EXISTING W/ DEPARTMENTAL REPRESENTATIVE FOR HERITAGE. |
| VALVE HOUSE | WHITE | COORDINATE CUSTOM COLOURS TO MATCH EXISTING W/ DEPARTMENTAL REPRESENTATIVE FOR HERITAGE. |

*PAINT ALL NEW PIPING, EQUIPMENT, HANGERS, AND SEISMIC RESTRAINT

4 FINISH SCHEDULE
SCALE: N/A



3 VALVE HOUSE PLAN
SCALE: 1:50

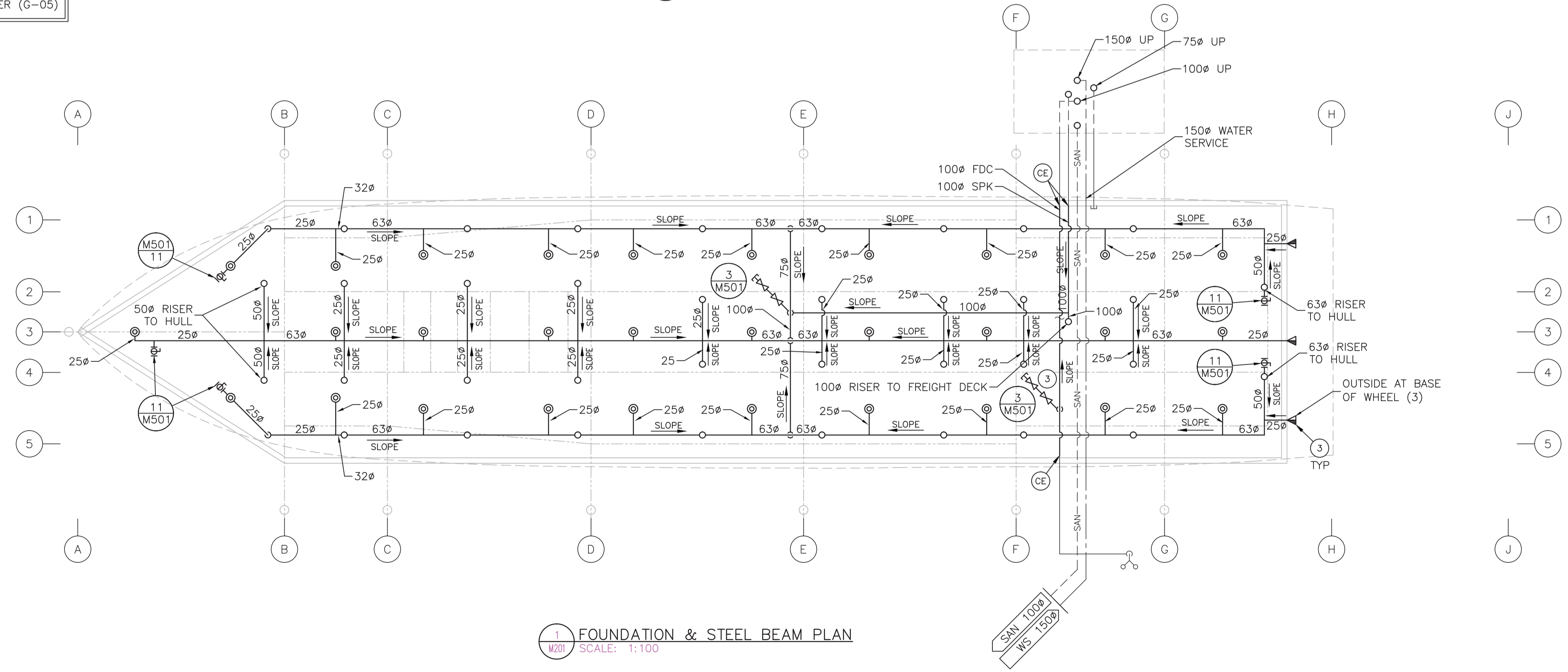


2 HULL PLAN
SCALE: 1:100

- KEYNOTES**
- SPRINKLER HEAD ON TOP OF 250 RISER FROM BELOW
 - SPRINKLER HEAD ON TOP OF 320 RISER FROM BELOW, SHOWN OFFSET FOR CLARITY.
 - PROVIDE SHOP PAINTED SPRINKLER HEAD GUARDS AND FITTING, TO MATCH HULL. TYPICAL OF ALL EXTERIOR-FACING SPRINKLERS ON HULL LEVEL.
 - PROVIDE A SIGNALING PLATE FOR INTERNAL, AND EXTERNAL HOSE BIBB MENTIONING "NON-POTABLE WATER"

| SPRINKLER TABLE | | | |
|-----------------|----------|-----------------------------|------------------------|
| SYMBOL | K FACTOR | TYPE | FINISH |
| ● | 5.6 | UPRIGHT | BRASS (G-01) |
| ⊙ | 4.2 | UPRIGHT | BRASS (G-02) |
| ▽ | 5.6 | SIDEWALL | WHITE POLYESTER (G-03) |
| ▽ | 5.6 | SIDEWALL | BLACK POLYESTER (G-03) |
| ▽ | 8.0 | SIDEWALL, EXTENDED COVERAGE | WHITE POLYESTER (G-05) |

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1 FOUNDATION & STEEL BEAM PLAN
SCALE: 1:100

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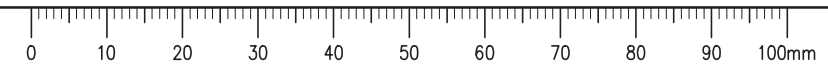
Project title/Titre du projet
DAWSON CITY YUKON TERRITORY
SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

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Designed by/Concept par FX LAVALLEE
Drawn by/Dessiné par S GIRARD NORTON
PWSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY
Regional Manager, Architectural and Engineering Services Gestionnaire régional, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin
NEW SPRINKLER PLAN: FOUNDATION AND HULL

| Project No./No. du projet | Sheet/Fauille | Revision no./La Révision no. |
|---------------------------|---------------|------------------------------|
| R.075645.001 | M201 | 1 |

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Project title/Titre du projet: **DAWSON CITY YUKON TERRITORY**

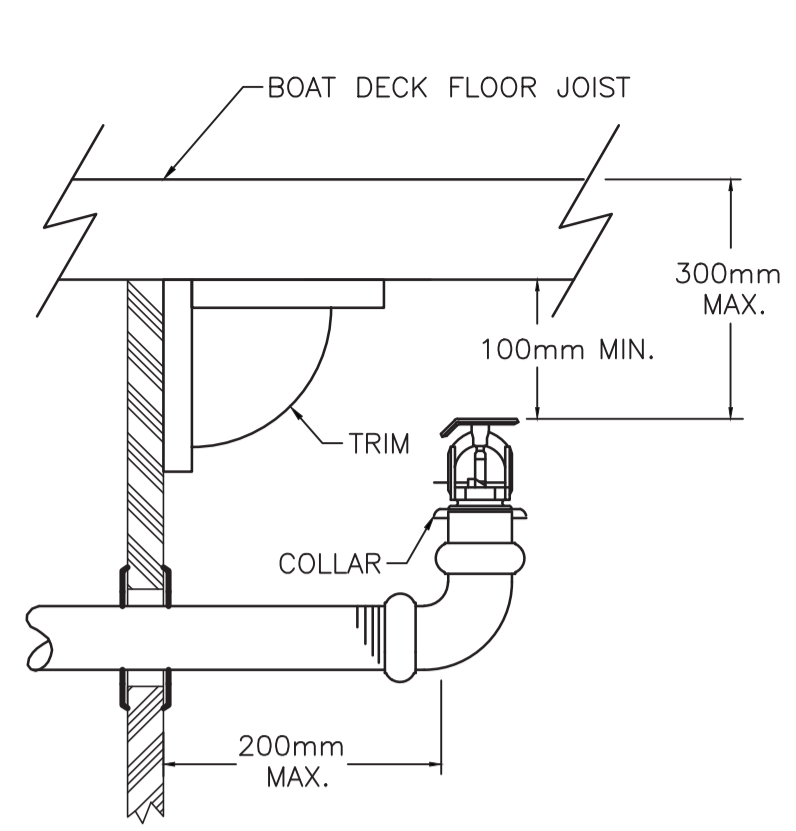
SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

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 Designed by/Concept par: FX LAVALLÉE
 Drawn by/Dessiné par: S GIRARD NORTON
 PWGSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY
 Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin: **NEW SPRINKLER PLAN: FREIGHT DECK & ABOVE AND VALVE HOUSE**

Project No./No. du projet: R.075645.001
 Sheet/Fauille: M202
 Revision no./La Révision no.: 1

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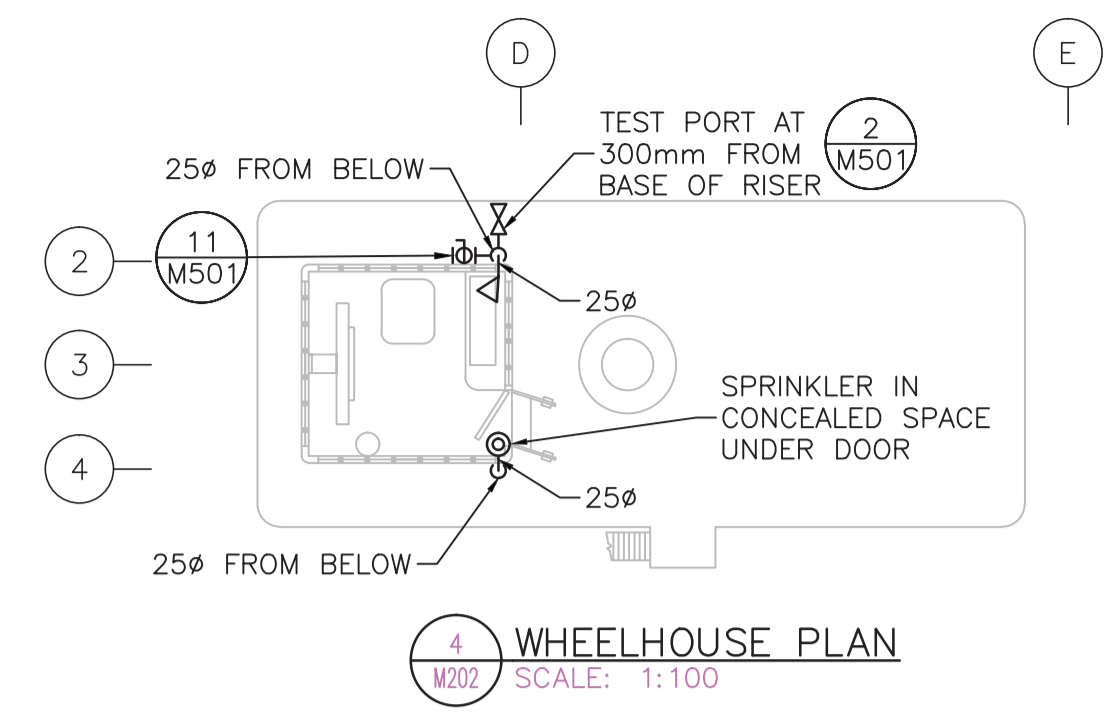
5 TYPICAL SALOON DECK CORRIDOR VERTICAL SIDEWALL
 M202 SCALE: NTS

- KEYNOTES**
- 38ø RISER
 - 50ø RISER
 - 25ø RISER
 - INSTALL NEW "OLD STYLE" HOSE VALVE PROVIDED BY DEPARTEMENTAL REPRESENTATIVE. LABEL EACH EXISTING STANDPIPE VALVE W/ CHAIN & LAMACOID "DO NOT USE".
 - DRY PENDANT SPRINKLER IN CAPTAIN BOOTH
 - PIPE AND NOZZLES ARE TO BE CONCEALED FROM PUBLIC VIEW WHERE EVER POSSIBLE AND FINAL LOCATION IS TO BE COORDINATED WITH DEPARTEMENTAL REPRESENTATIVE FOR HERITAGE.

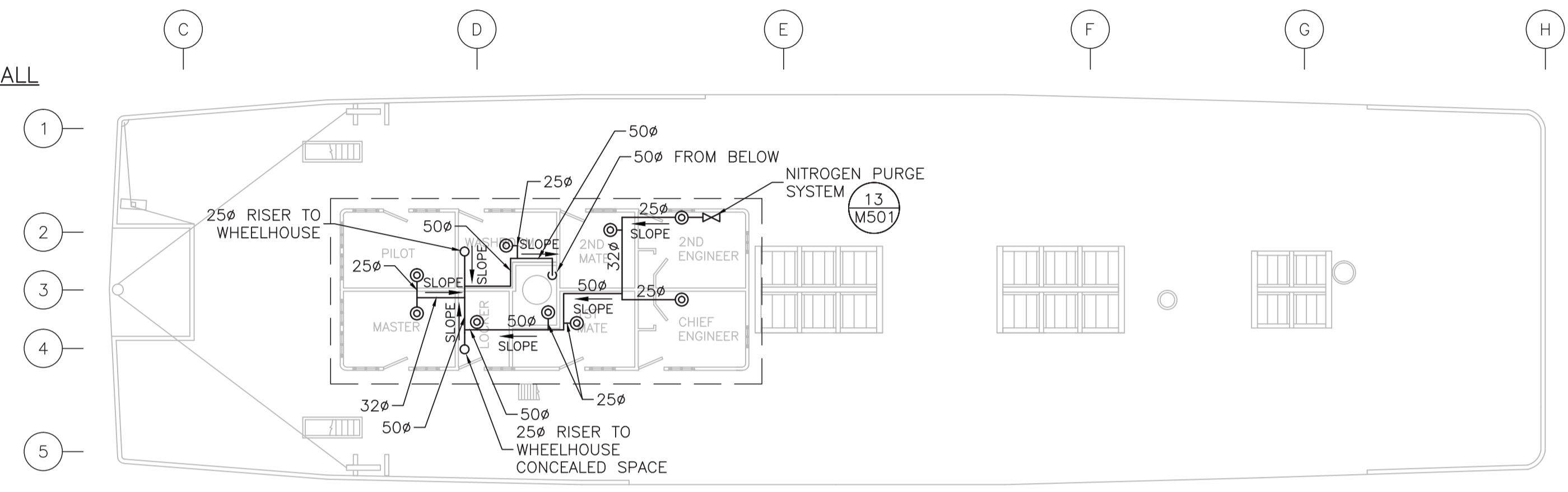
SPRINKLER TABLE

| SYMBOL | K FACTOR | TYPE | FINISH |
|--------|----------|-------------------|------------------------|
| ● | 5.6 | UPRIGHT | BRASS (G-01) |
| ⊙ | 4.2 | UPRIGHT | BRASS (G-02) |
| ▽ | 5.6 | SIDEWALL | WHITE POLYESTER (G-03) |
| ▼ | 5.6 | VERTICAL SIDEWALL | BRASS (G-04) |
| ⊗ | 5.6 | DRY PENDANT | BRASS (G-06) |
| ▽ | 5.6 | SPRAY NOZZLE | WHITE POLYESTER (G-07) |

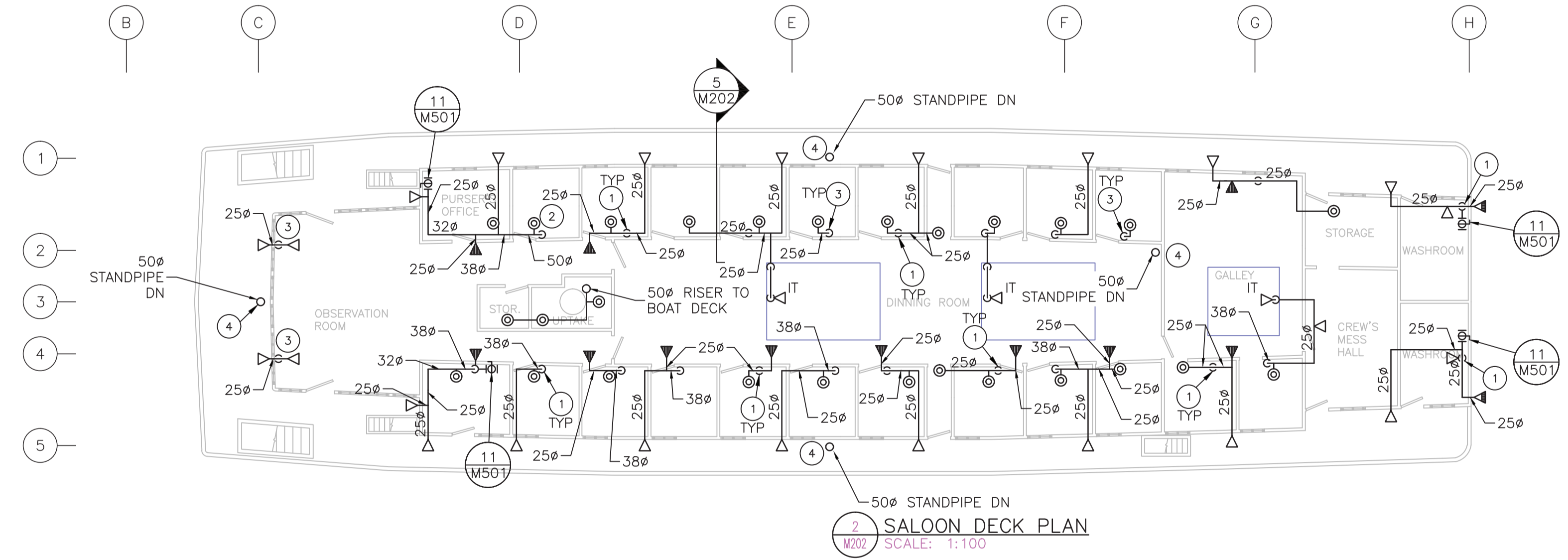
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 - WHERE WORK IS CARRIED OUT IN PROXIMITY TO HISTORIC FEATURES, REASONABLE MEASURES TO PROTECT THE EXISTING HISTORIC FABRIC AND EQUIPMENT FROM ACCIDENTAL DAMAGE ARE TO BE TAKEN. CONTRACTOR TO COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE TO PROVIDE APPROPRIATE PROTECTION OF EXISTING ARTIFACTS AND EQUIPMENT IN EXISTING AREAS OF THE SPRINKLER ZONE TO BE DEMOLISHED AND PROVIDED WITH SPRINKLER SYSTEM PRIOR TO STARTING OF CONSTRUCTION.
 - ALL ADJACENT AREAS DISTURBED BY THE SCOPE OF WORK TO BE MADE GOOD UPON COMPLETION, AS PER ACCEPTED CONSERVATION TECHNIQUES, AND IN COORDANCE WITH THE STANDARDS AND GUIDELINES FOR THE CONSERVATION OF HISTORIC PLACES IN CANADA.
 - EXISTING ROUTING OF SPRINKLER PIPING TO BE REUSED, EXCEPT WHERE ALTERNATIVE ROUTING IS INDICATED IN THE SPRINKLER PLANS. PUNCTURING, DRILLING OR PENETRATION OF HISTORIC FABRIC IS TO BE AVOIDED WHEREVER POSSIBLE. ANY PROPOSED CHANGES TO EXISTING ROUTING TO BE COORDINATED WITH HERITAGE DEPARTMENTAL REPRESENTATIVE FOR APPROVAL.
 - CUTTING, GRINDING AND SIMILAR HOT WORKS ARE FORBIDDEN IN COMBUSTIBLE AREA.



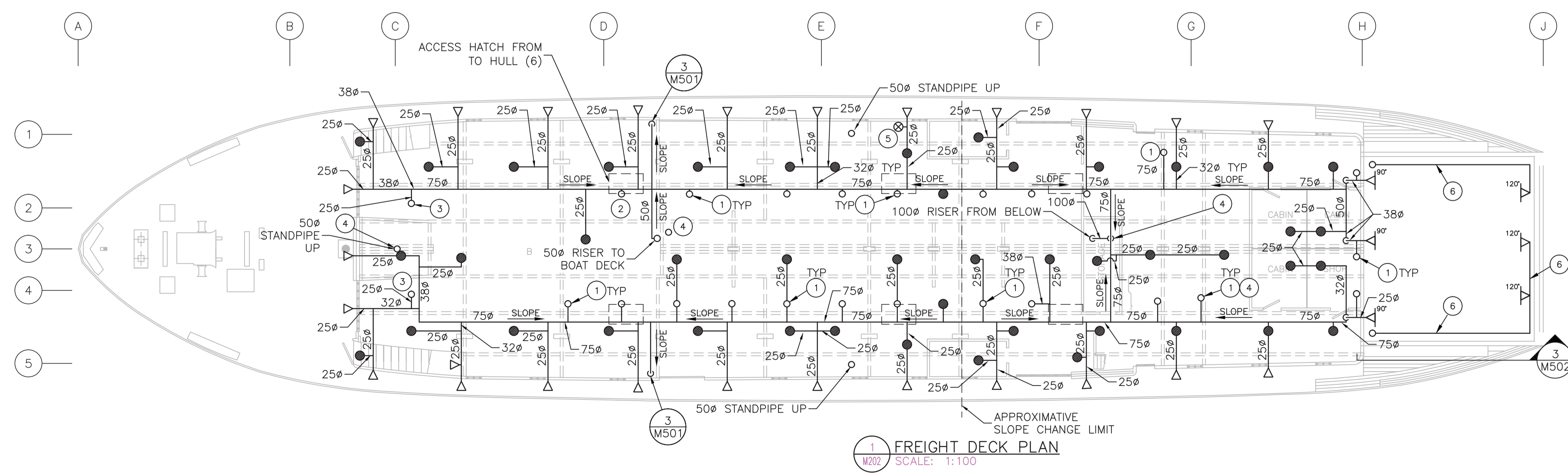
4 WHEELHOUSE PLAN
 M202 SCALE: 1:100



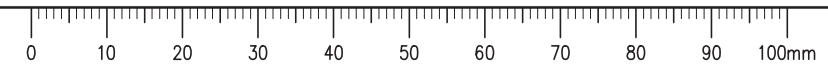
3 BOAT DECK PLAN
 M202 SCALE: 1:100



2 SALOON DECK PLAN
 M202 SCALE: 1:100



1 FREIGHT DECK PLAN
 M202 SCALE: 1:100



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 STANTEC ARCHITECTURE LTD.
 Signature: [Signature]
 Date: February 23, 2022
 PERMIT NUMBER: PP315
 Association of Professional Engineers 14702580 of Yukon



| Revision/Revisión | Description/Description | Date/Date |
|-------------------|------------------------------|-----------|
| 1 | ISSUED FOR TENDER REVISION 0 | 18/02/23 |
| 0 | ISSUED FOR PRELIMINARY 100% | 18/01/12 |

PARKS CANADA AGENCY
 WESTERN AND NORTHERN REGION

Project title/Titre du projet
DAWSON CITY YUKON TERRITORY

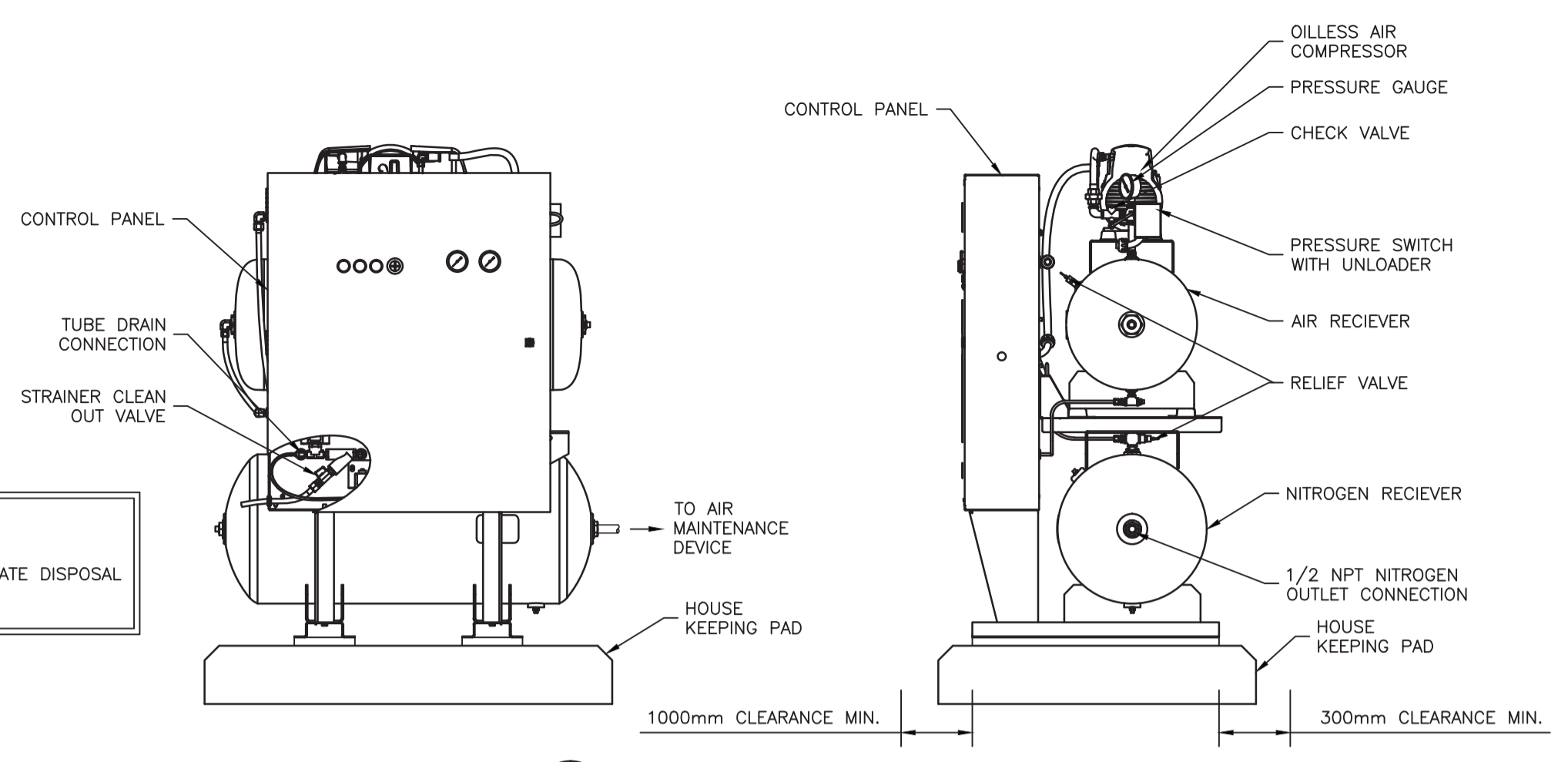
SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

Client/client
 Consultant Signature Only
 Designed by/Concept par: FX LAVALLÉE
 Drawn by/Dessiné par: S GIRARD NORTON
 PWSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY
 Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC

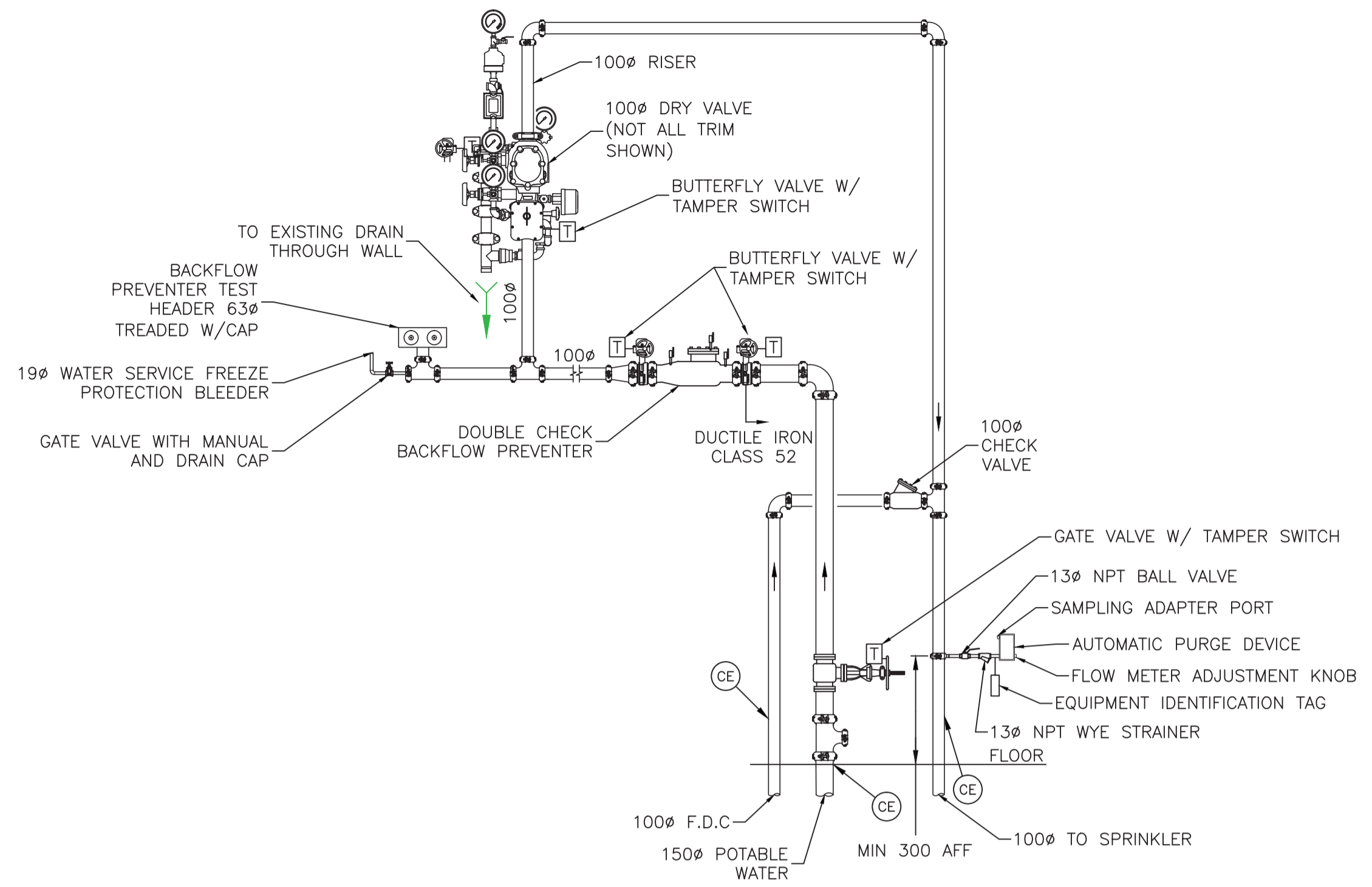
Drawing title/Titre du dessin
FIRE PROTECTION SCHEMATICS & DETAILS

| Project No./No. du projet | Sheet/Feuille | Revision no./La Révision no. |
|---------------------------|---------------|------------------------------|
| R.075645.001 | M501 | 1 |

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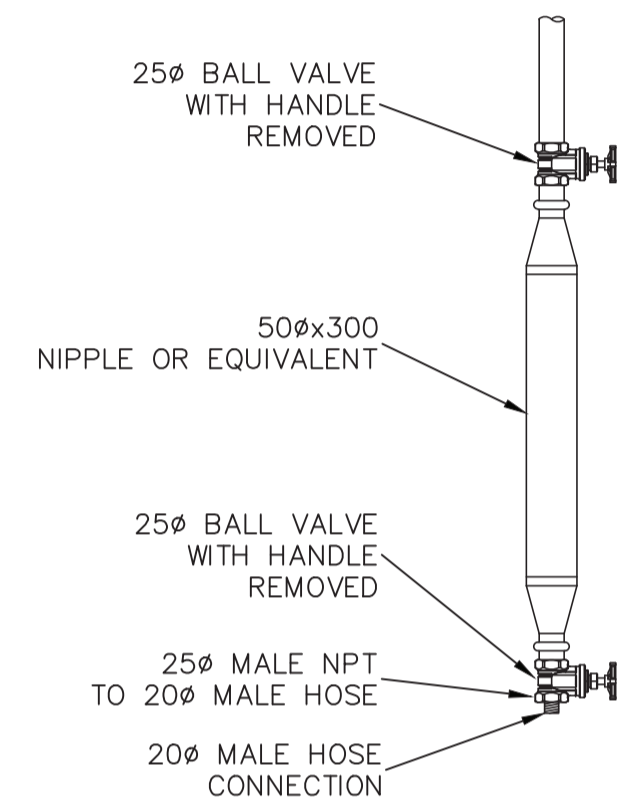


5 NITROGEN GENERATOR SYSTEM
 SCALE: NTS

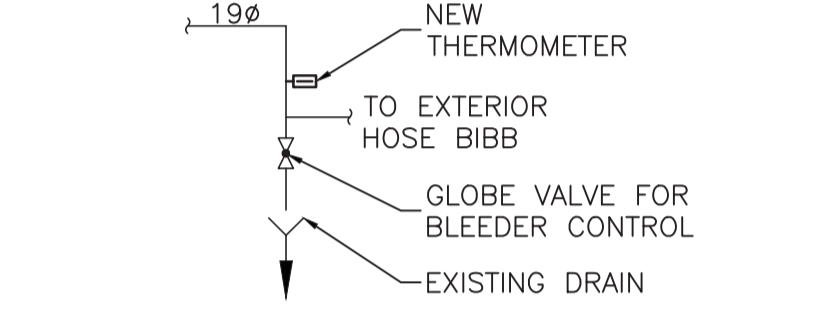


1 FIRE WATER SERVICE DETAIL
 SCALE: NTS

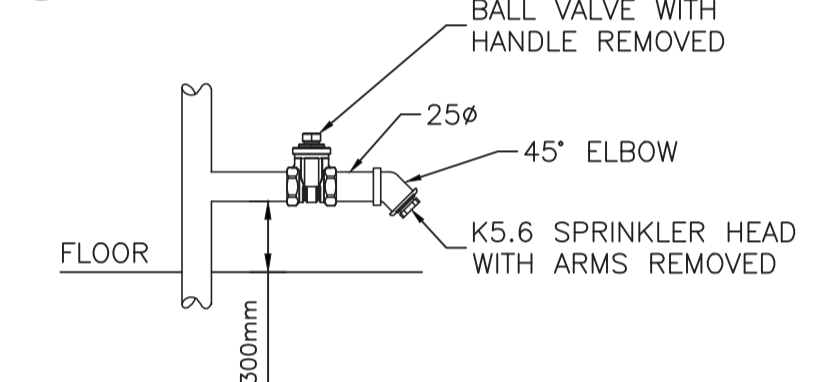
NOTE:
 PIPE DRAIN TO APPROPRIATE DISPOSAL LOCATION.



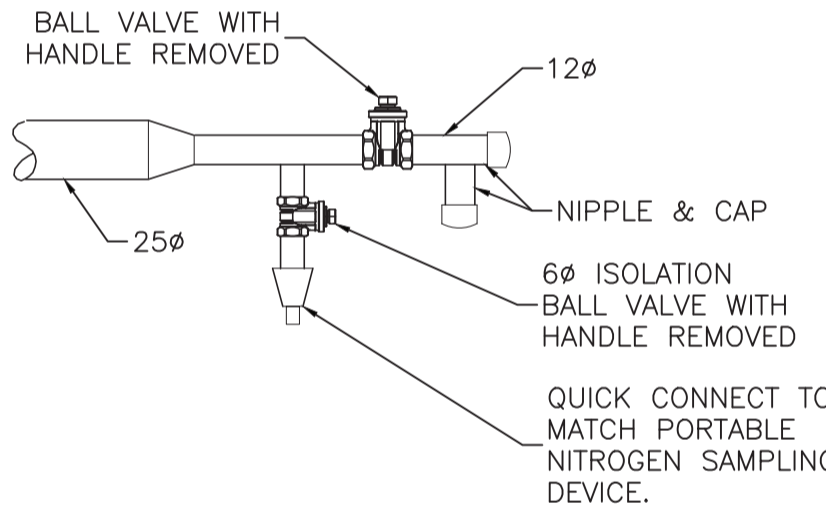
3 DRY SYSTEM AUXILIARY DRAIN DETAIL
 SCALE: NTS



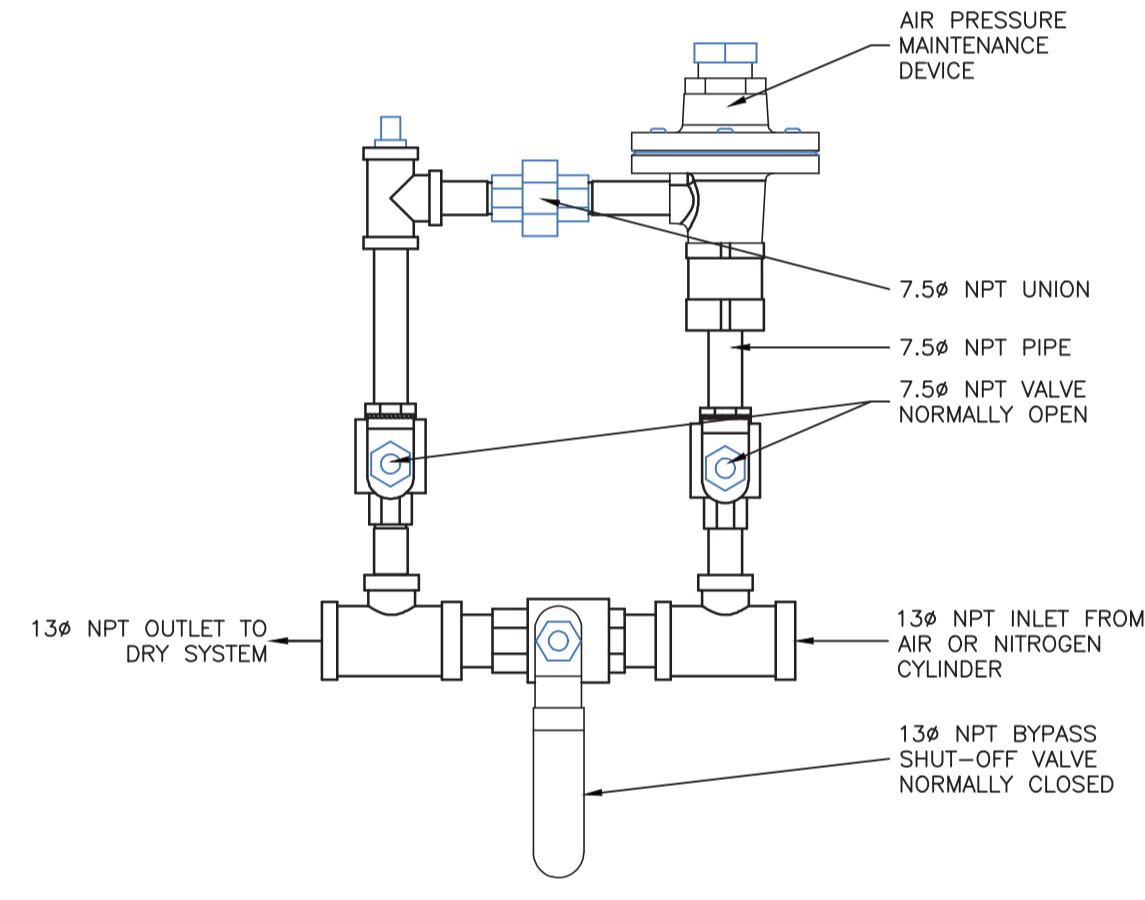
9 SPRINKLER WATER SERVICE BLEEDER SCHEMATIC
 SCALE: NTS



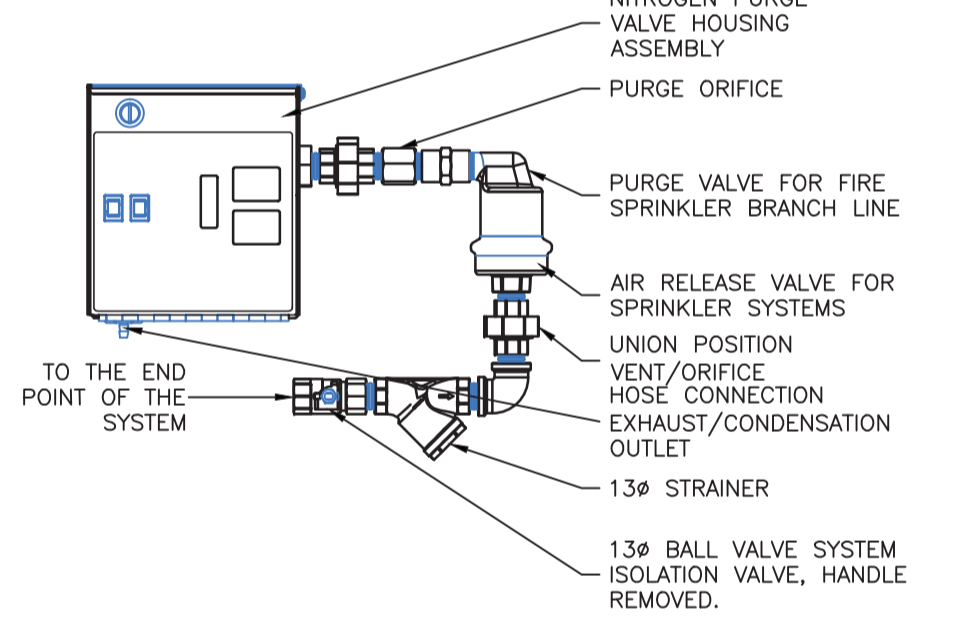
2 DRY SYSTEM TEST PORT DETAIL
 SCALE: NTS



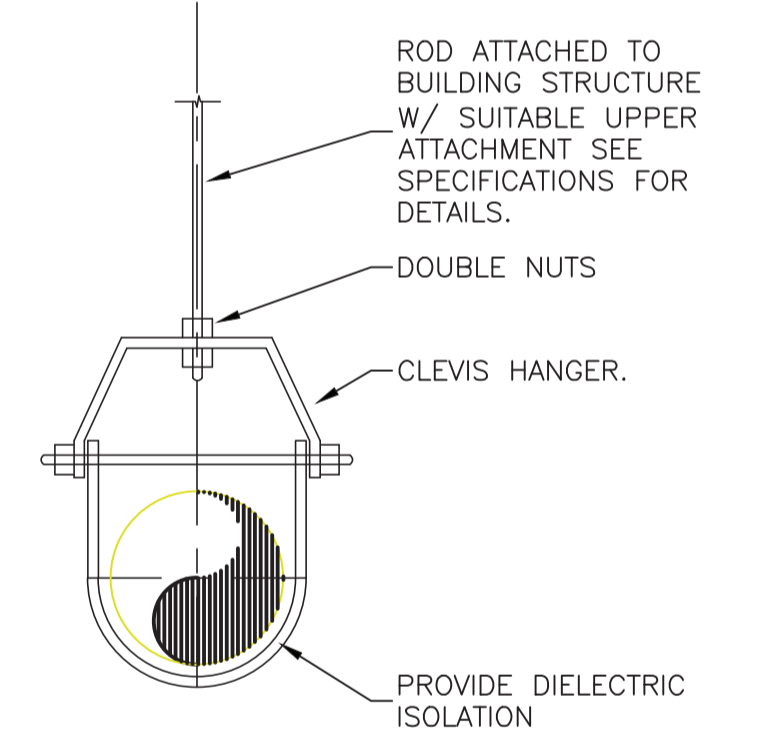
11 NITROGEN SAMPLING PORT DETAIL
 SCALE: NTS



12 AIR MAINTENANCE DEVICE
 SCALE: NTS



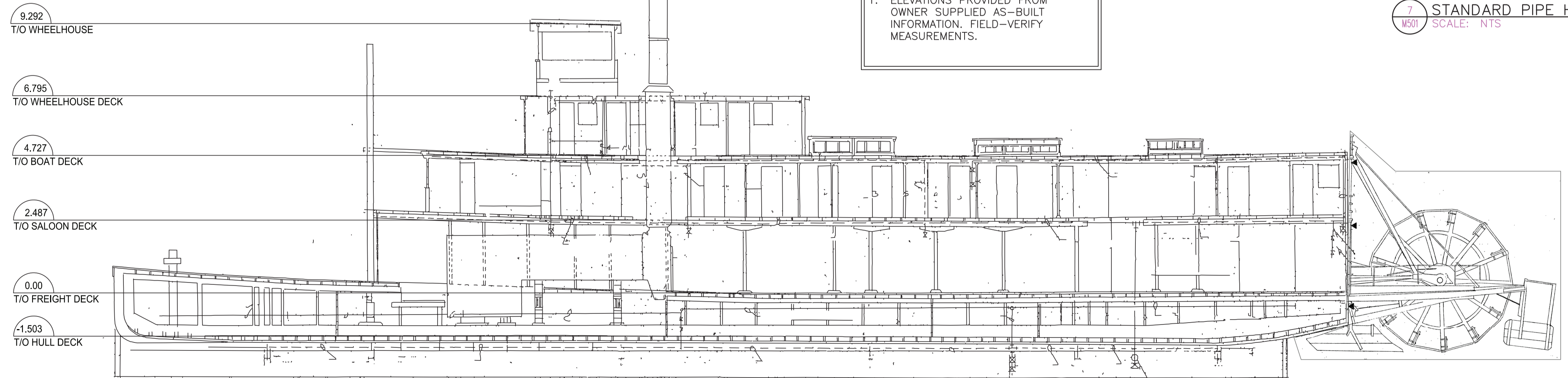
13 NITROGEN PURGE VALVE
 SCALE: NTS



7 STANDARD PIPE HANGER DETAIL
 SCALE: NTS

NOTE:
 1. ELEVATIONS PROVIDED FROM OWNER SUPPLIED AS-BUILT INFORMATION. FIELD-VERIFY MEASUREMENTS.

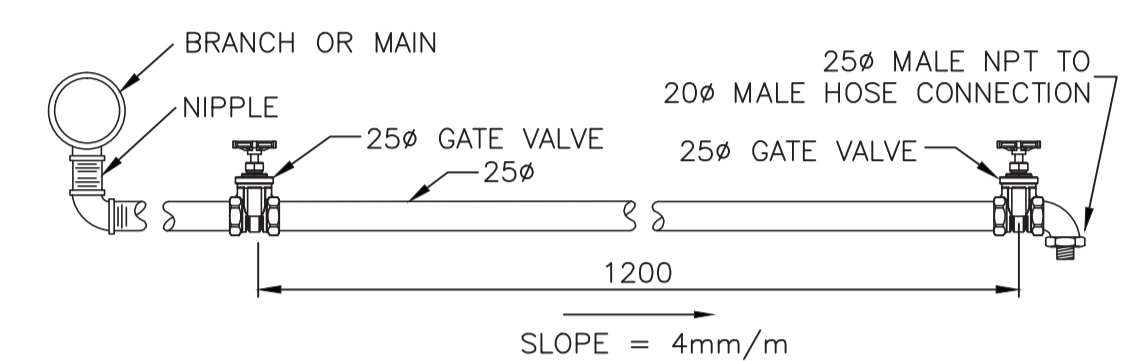
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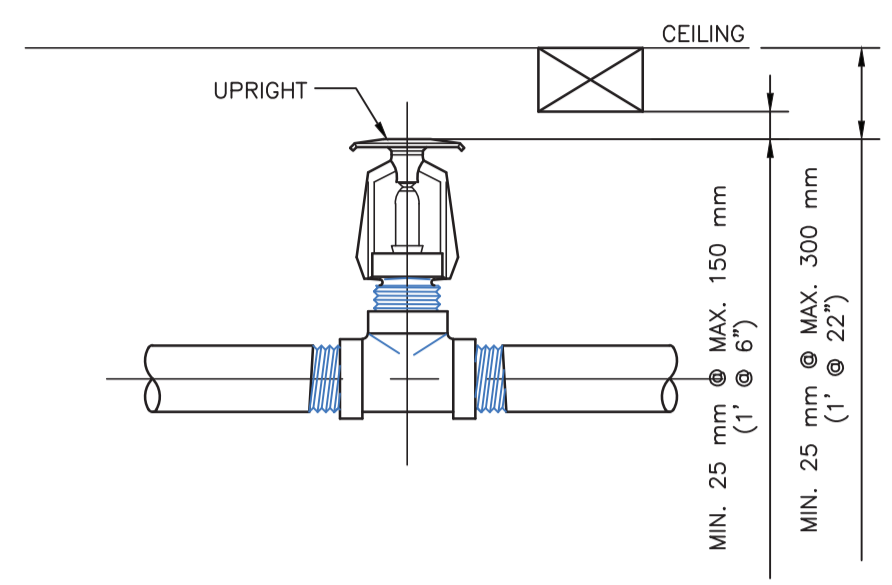
6 SS KENO SECTION
 SCALE: NTS



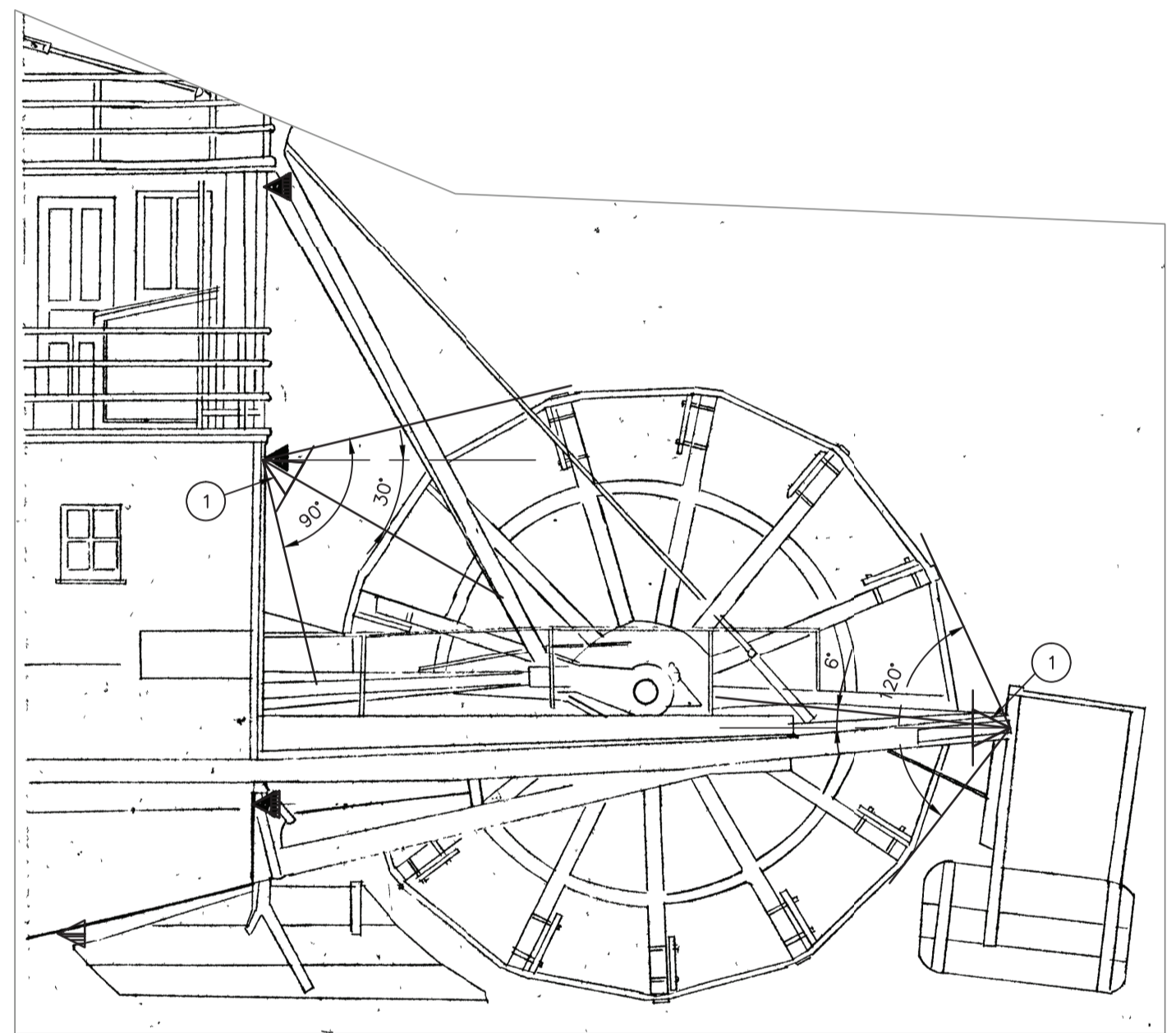
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5 ALTERNATE DRY SYSTEM AUXILIARY DRAIN DETAIL
SCALE: NTS

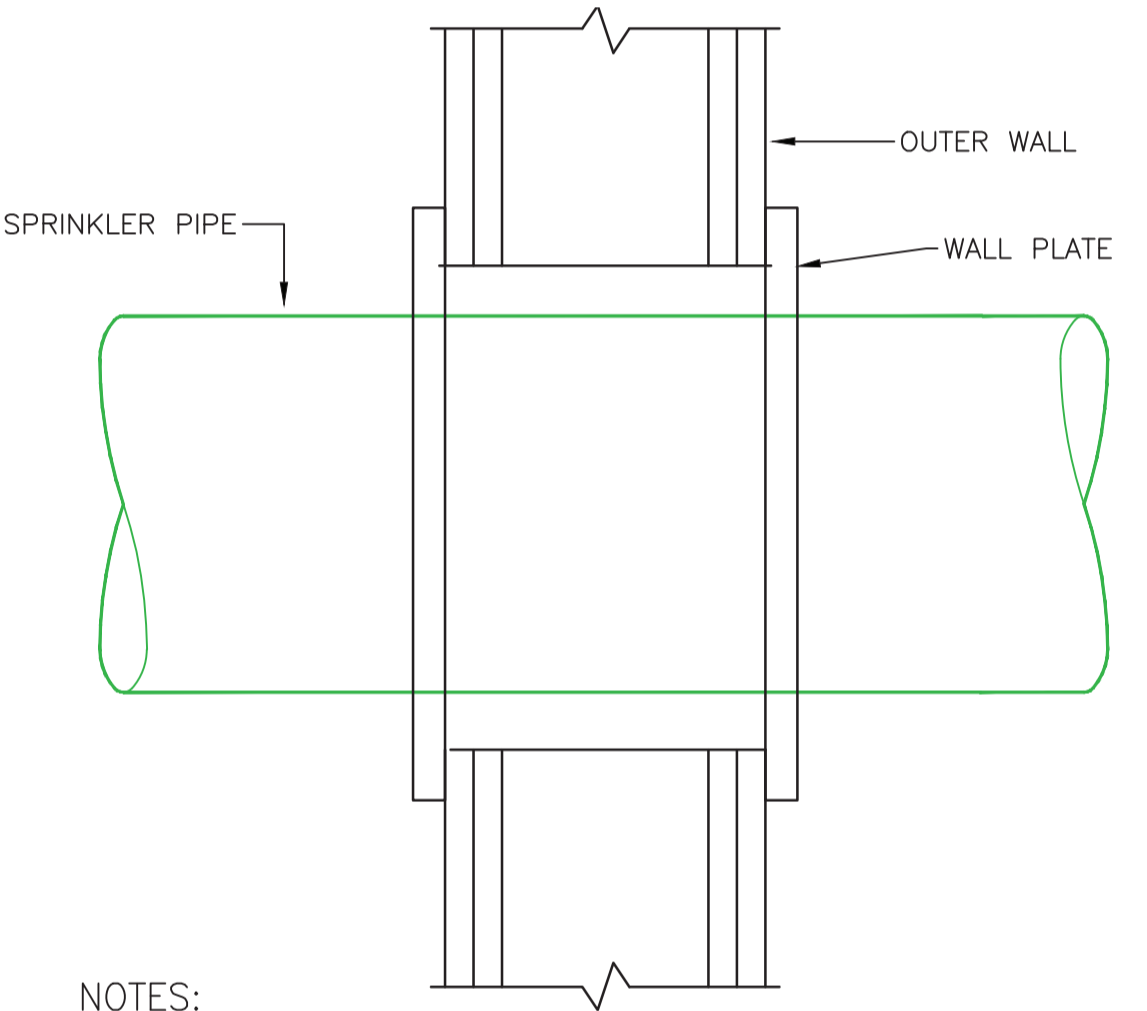


4 UPRIGHT SPRINKLER DETAIL INSTALLATION FOR OBSTRUCTED CONSTRUCTION
SCALE:



3 ELEVATION PADDLE WHEEL
SCALE: 1:50

KEYNOTE
CONTRACTOR SHALL SELECT NOZZLE'S SPRAY ANGLE BASED ON ONSITE MEASUREMENTS.
1 INSTALLATION ANGLE SHALL BE MADE TO DISCHARGE WATER TOWARD THE CENTER OF THE PADDLE WHEEL.

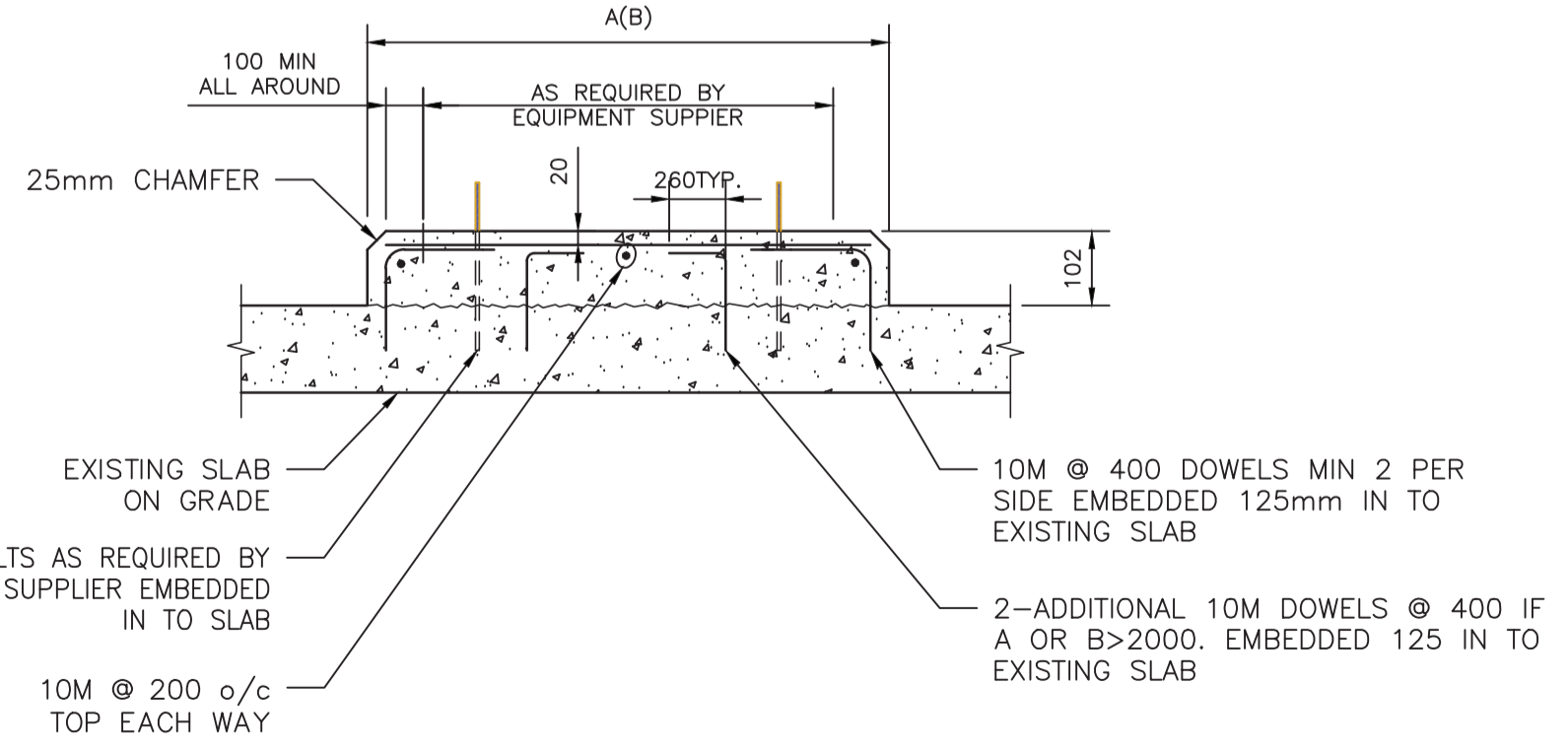


NOTES:
1. NO NEW CUTTING WITHOUT APPROVAL FROM DEPARTMENTAL REPRESENTATIVE FOR HERITAGE. IF APPROVAL IS RECEIVED, ALL NEW WALL PENETRATIONS THROUGH HISTORIC MATERIAL ARE TO BE AS SMALL AS POSSIBLE AND CAREFULLY EXECUTED IN A TIDY MANNER.

1 PIPE WALL PENETRATION DETAIL
SCALE: NTS

GENERAL NOTES:

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2 HOUSEKEEPING PAD DETAIL
SCALE: NTS

NOTES:

- REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
- COORDINATE PLACEMENT AND LOCATION WITH MECH. CONSTRUCTION DOCUMENTS PRIOR TO INSTALLATION.
- STABILITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
- NOTIFY CONSULTANT 24 HOURS PRIOR TO CONCRETE POURS TO ALLOW FOR REVIEW OF REINFORCEMENT.
- CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO THE LATEST EDITION OF CSA A23.1, A23.2, AND A23.3.
- SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
- DO NOT PLACE LOAD ON NEW CONCRETE OR POUR NEW CONCRETE ON NEW CONCRETE UNTIL AT LEAST 75% OF ITS 28 DAY STRENGTH IS ATTAINED. CONCRETE QUALITY CONTROL TESTING SHALL BE COMPLETED BY QUALIFIED PERSONNEL AND REPORTS ARE TO BE SUBMITTED TO THE ENGINEER.
- BUILDING IS NOT TO BE PUT INTO SERVICE UNTIL ALL CONCRETE COMPONENTS HAVE CURED FOR 28 DAYS OR PROOF THAT THE 28 DAY STRENGTH HAS BEEN ATTAINED THROUGH QUALITY CONTROL TESTING.

- CONCRETE SHALL NOT BE POURED IN AN UNCONFINED MANNER FROM A HEIGHT OF MORE THAN 1220mm.
- ALL BENDS IN PRIMARY REINFORCEMENT TO HAVE A RADIUS OF NOT LESS THAN 3 TIMES THE BAR DIAMETER.
- REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400.
- DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER.
- PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE MECH. DRAWINGS, OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER.
- ALL REINFORCEMENT TO BE SUPPORTED AT 900 mm MAXIMUM SPACING.
- THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING PLACED.
- EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
- USE HYBRID ADHESIVE SYSTEM SUCH AS HILTI HY-200 FOR ALL REBAR AND ANCHOR BOLTS FASTENING TO EXISTING CONCRETE SLAB
- THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING PLACED.

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STANTEC ARCHITECTURE LTD.
Signature: [Signature]
Date: February 23, 2018
PERMIT NUMBER: PP315
Association of Professional Engineers
14902580 of Yukon



| Revision/Revised | Description/Description | Date/Date |
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| 1 | ISSUED FOR TENDER REVISION 0 | 18/02/23 |
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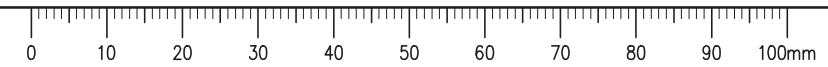
Project Title/Titre du projet
DAWSON CITY YUKON TERRITORY
SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

Consultant Signature Only
Designed by/Concept par: FX LAVALLÉE
Drawn by/Dessiné par: S GIRARD NORTON
PWSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY
Regional Manager, Architectural and Engineering Services/Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing Title/Titre du dessin
FIRE PROTECTION DETAILS 2

| | | |
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| Project No./No. du projet: R.075645.001 | Sheet/Feuille: M502 | Revision no./La Révision no.: 1 |
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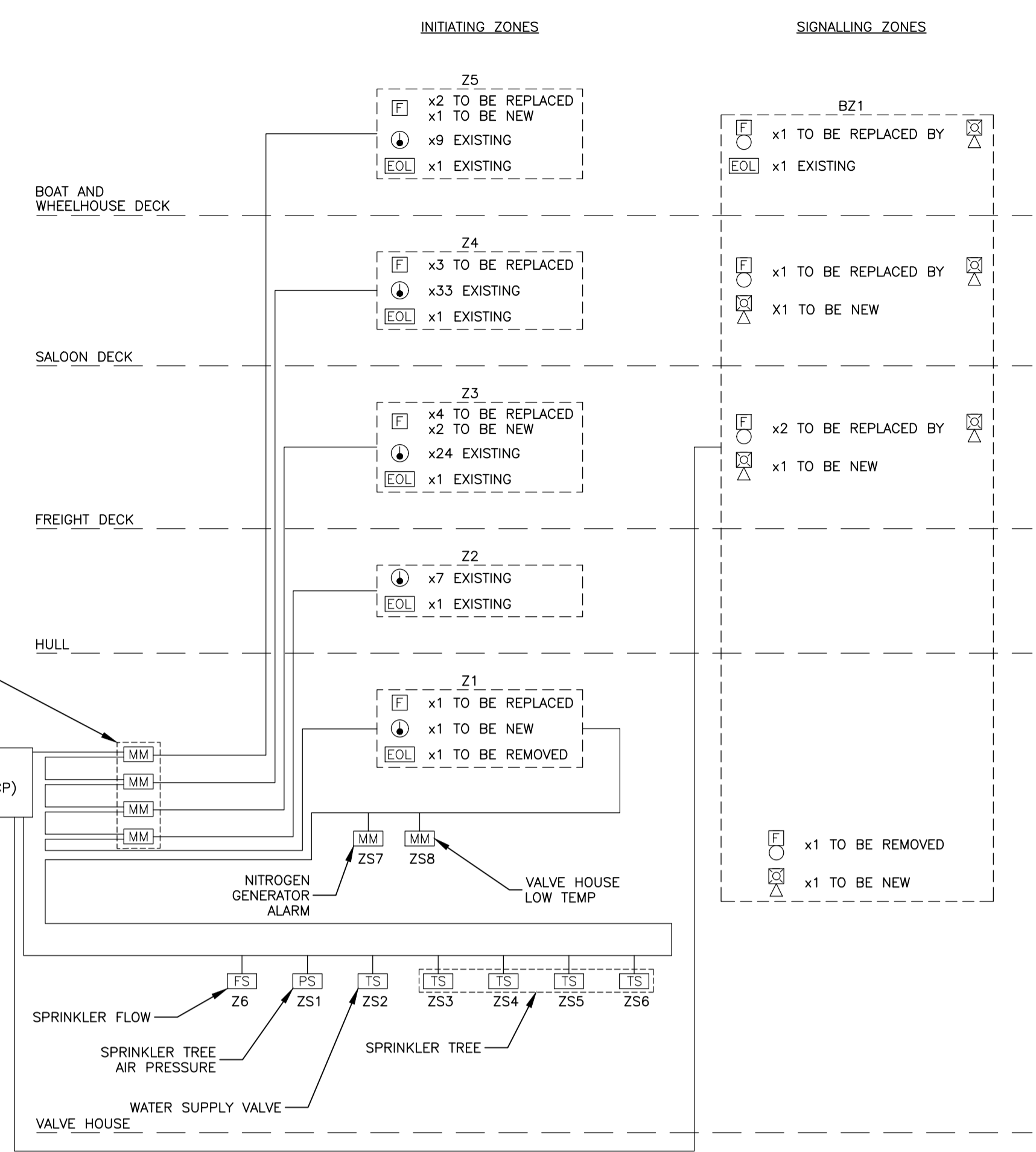
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- THIS DRAWING IS FOR DIAGRAMMATICAL PURPOSES ONLY.
 - REFER TO FLOOR PLANS FOR APPROX QUANTITY AND LOCATION OF DEVICES. CONTRACTOR TO VERIFY EXISTING DEVICES QUANTITIES AND LOCATIONS ON SITE AND NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCY.
 - ALL DEVICES ARE NEW, EXCEPT WHERE SPECIFICALLY INDICATED.
 - THIS RISER IS FOR SCHEMATIC REPRESENTATION ONLY AND CHOICE IS AVAILABLE FOR THE INSTALLER TO USE MORE LOOPS AS IS CONVENIENT FOR INSTALLATIONS PROVIDED CAN/ULC S524 "THE STANDARD FOR INSTALLATION OF FIRE ALARM SYSTEMS" IS ADHERED TO.
 - INDICATE ACTUAL ROUTING OF CABLING TO EACH INITIATING, SIGNALING AND ANCILLARY DEVICE IN AS-BUILT DRAWINGS INCLUDING THE RESPECTIVE SIGNALING CIRCUIT NUMBER AND ADDRESS NUMBER.
 - ALL DEVICES LOCATED WITHIN THE BOAT AND EXTERIOR LOCATIONS TO BE CONVENTIONAL NON-ADDRESSABLE DEVICES. ALL DEVICES LOCATED WITHIN HEATED VALVE HOUSE TO BE ADDRESSABLE.



1 FIRE ALARM RISER DIAGRAM
 E101 NTS

FIRE ALARM SCHEDULE

| ZONE | LOCATION | TYPE |
|------|--------------------------|-------------|
| Z1 | VALVE HOUSE | INITIATING |
| Z2 | HULL | INITIATING |
| Z3 | FREIGHT DECK | INITIATING |
| Z4 | SALOON DECK | INITIATING |
| Z5 | BOAT AND WHEELHOUSE DECK | INITIATING |
| Z6 | SPRINKLER WATER FLOW | INITIATING |
| ZS1 | SPRINKLER AIR PRESSURE | SUPERVISORY |
| ZS2 | GATE VALVE | SUPERVISORY |
| ZS3 | SPRINKLER TAMPER | SUPERVISORY |
| ZS4 | SPRINKLER TAMPER | SUPERVISORY |
| ZS5 | SPRINKLER TAMPER | SUPERVISORY |
| ZS6 | SPRINKLER TAMPER | SUPERVISORY |
| ZS7 | NITROGEN GENERATOR ALARM | SUPERVISORY |
| ZS8 | VALVE HOUSE TEMPERATURE | SUPERVISORY |
| BZ1 | SS KENO | SIGNALING |

FIRE ALARM SYMBOLS

| | |
|--------|--|
| F | FIRE ALARM MANUAL STATION |
| FWP | FIRE ALARM MANUAL STATION c/w WEATHERPROOF COVER |
| WPK-EH | FIRE ALARM AUDIO/VISUAL SIGNAL DEVICE |
| WP-EH | FIRE ALARM AUDIO/VISUAL WEATHERPROOF SIGNAL DEVICE |
| FB | FIRE ALARM BELL |
| AD | FIRE ALARM HEAT DETECTOR |
| FAA | FIRE ALARM ANNUNCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| EOL | FIRE ALARM END OF LINE RESISTOR |
| PS | FIRE ALARM CONNECTION TO PRESSURE SWITCH |
| FS | FIRE ALARM CONNECTION TO FLOW SWITCH |
| TS | FIRE ALARM CONNECTION TO TAMPER SWITCH |
| MM | FIRE ALARM MONITOR MODULE |
| Ⓢ | THERMOSTAT |

PANEL: B
 VOLTS:120/240 LOCATION: VALVE HOUSE
 BUSS: 125A
 PHASE: 1 FEEDER: EXISTING
 WIRE: 3 MTC: SURFACE

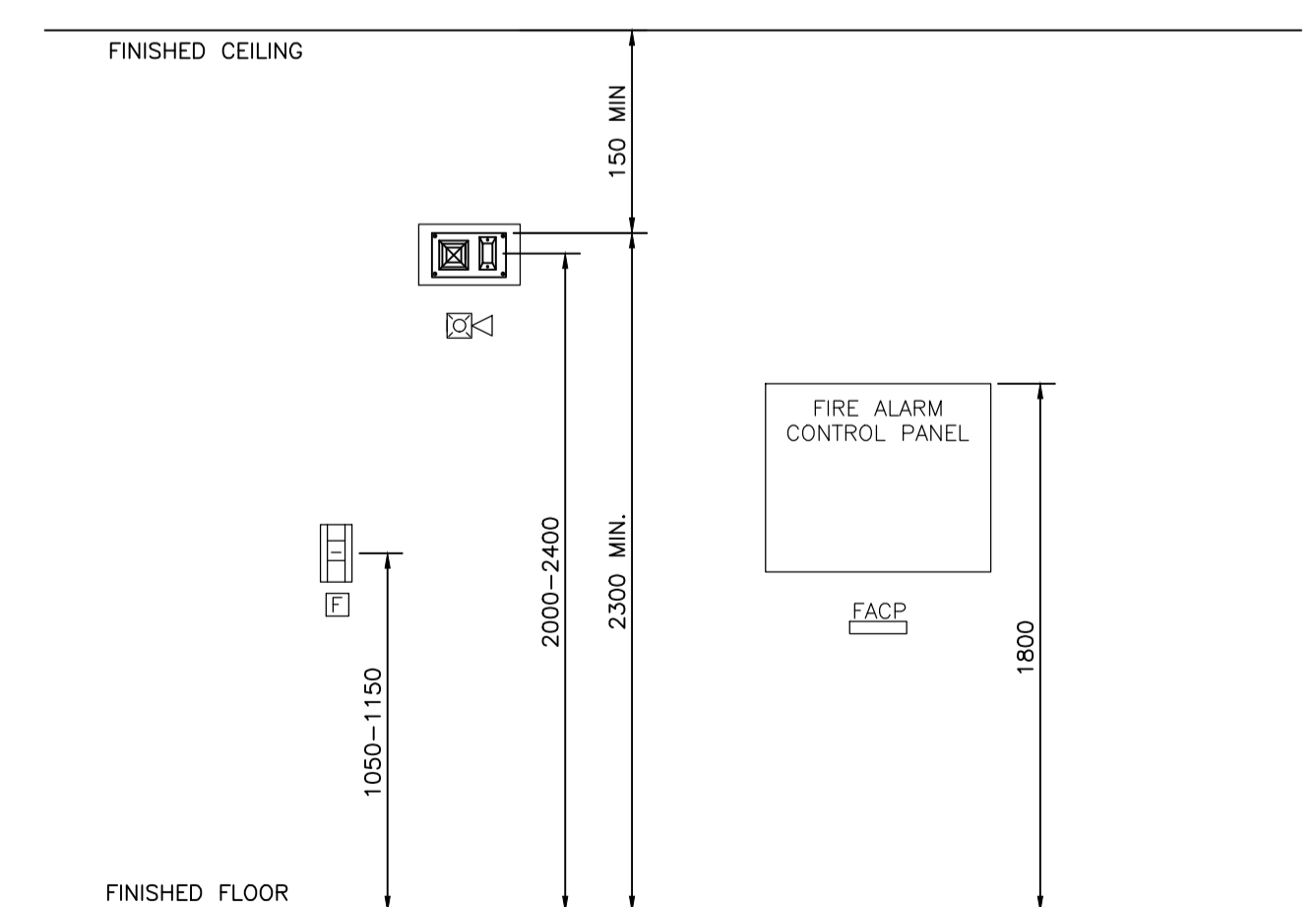
| CIRC | BRKR | WATTS | | DESCRIPTION | DESCRIPTION | WATTS | | BRKR | CIRC |
|------|------|-------|---|-----------------------|-------------------------------|-------|---|------|------|
| | | A | B | | | A | B | | |
| 1A | 1P15 | | | BOAT LIGHTS | BOAT RECEPTACLES | | | 1P15 | 2 |
| 1B | 2P20 | | | WHISTLE TIMER | NITROGEN GENERATOR | | | 1P15 | 4 |
| 3A | | | | | FURNANCE | | | 1P15 | 6 |
| 3B | 1P15 | | | BOAT LIGHTS | LIGHTS | | | 1P15 | 8 |
| 5 | 1P15 | | | HEAT TRACE | RECEPTACLES | | | 1P15 | 10 |
| 7 | 1P15 | | | FIRE ALARM PANEL | RECEPTACLES | | | 1P15 | 12 |
| 9 | 1P15 | | | RECEPTACLE | RECEPTACLES | | | 1P15 | 14 |
| 11 | 1P15 | | | HULL POWER AND LIGHTS | VIDEO CAMERAS SECURITY SYSTEM | | | 1P15 | 16 |
| 13 | 1P15 | | | HEATER | SPOT LIGHTS | | | 1P15 | 18 |
| 15 | 1P15 | | | HEATER | CEILING HEATER | | | 2P15 | 20 |
| 17 | 1P15 | | | BATTERY PACK | | | | 1P15 | 22 |
| 19 | | | | | BOAT LIGHTS | | | 1P15 | 24A |
| 21 | 2P15 | | | | WHISTLE COMPRESSOR | | | 2P30 | 24B |
| 23 | | | | DOCK POWER PLUGS | BOAT LIGHTS | | | 1P15 | 26A |
| 25 | | | | | BOAT LIGHTS | | | 1P15 | 26B |
| 27 | | | | | SPACE | | | 1P15 | 28A |
| 29 | | | | | CRAWL SPACE GFI PLUGS | | | 2P15 | 28B |
| | | | | | SPACE | | | 1P15 | 30A |
| 31 | | | | | BOAT LIGHTS | | | 1P15 | 30B |
| | | | | | SPACE | | | | 32 |

REMARKS:
 1. EXISTING PANEL IS COMMANDER QM32/25
 2. ALL BREAKERS AND CIRCUITS EXISTING UNLESS OTHERWISE INDICATED

EXISTING 1P15A BREAKER TO BE RE-USED FOR NITROGEN GENERATOR

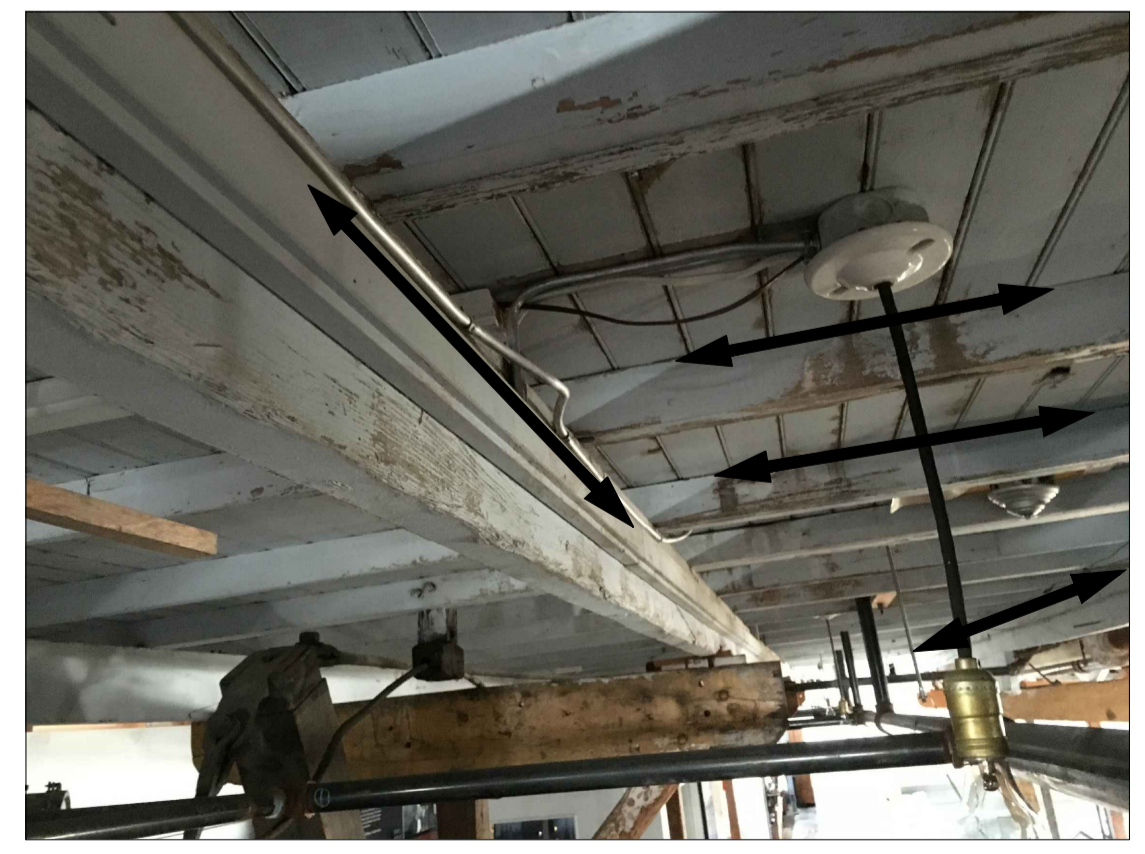
MECHANICAL EQUIPMENT SCHEDULE

| DESCRIPTION | LOCATION | kW | HP | VOLTS | PHASE | FLA | FEEDER | BREAKER | SOURCE | CONTROL |
|--------------------|-------------|----|----|-------|-------|------|--|---------|--------|--------------|
| NITROGEN GENERATOR | VALVE HOUSE | - | 1 | 120 | 1 | 11.8 | 2 #12 Cu RW90 + #14 Cu BOND IN 21mm CONDUIT. | 1P15 | PNL B | BREAKER ONLY |



- NOTE:
- COORDINATE MOUNTING HEIGHT OF ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION.
 - DIMENSIONS IN THIS DIAGRAM GIVEN IN MILLIMETERS.

2 FIRE ALARM DEVICES MOUNTING HEIGHTS
 E101 NTS



3 TYPICAL CONDUIT ROUTING
 E101 NTS

- NOTES:
- THE FOLLOWING SYMBOLS INDICATE ACTIONS TO BE TAKEN ON EACH DEVICE:
 "R" - REMOVE DEVICE
 "E" - EXISTING DEVICES TO REMAIN
 "EXR" - EXISTING DEVICE TO BE REPLACED
 "N" - NEW DEVICE
 - PROVIDE NEW WIRING AND CONDUIT FOR: NEW DEVICES IN NEW LOCATIONS.
 - RE-USE EXISTING WIRING AND CONDUIT FOR: EXISTING AND REPLACED DEVICES.
 - ALL PROPOSED ALTERATIONS TO EXISTING WIRING/CONDUIT ROUTING AND PROPOSED ROUTING FOR NEW DEVICES TO BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE FOR HERITAGE.
 - ALL NEW WIRING AND CONDUIT TO BE RUN CONCEALED ON SURFACE ALONG CEILING AND RUN SQUARE WITH THE VESSEL/STRUCTURE. CONCEAL ALONG NON-VISIBLE SIDE OF STRUCTURAL BEAMS AS MUCH AS POSSIBLE.
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| Revision/ | Description/Description | Date/Date |

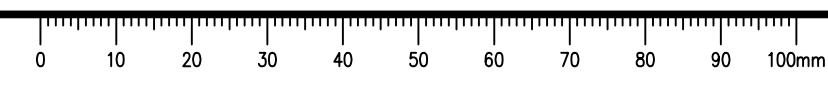
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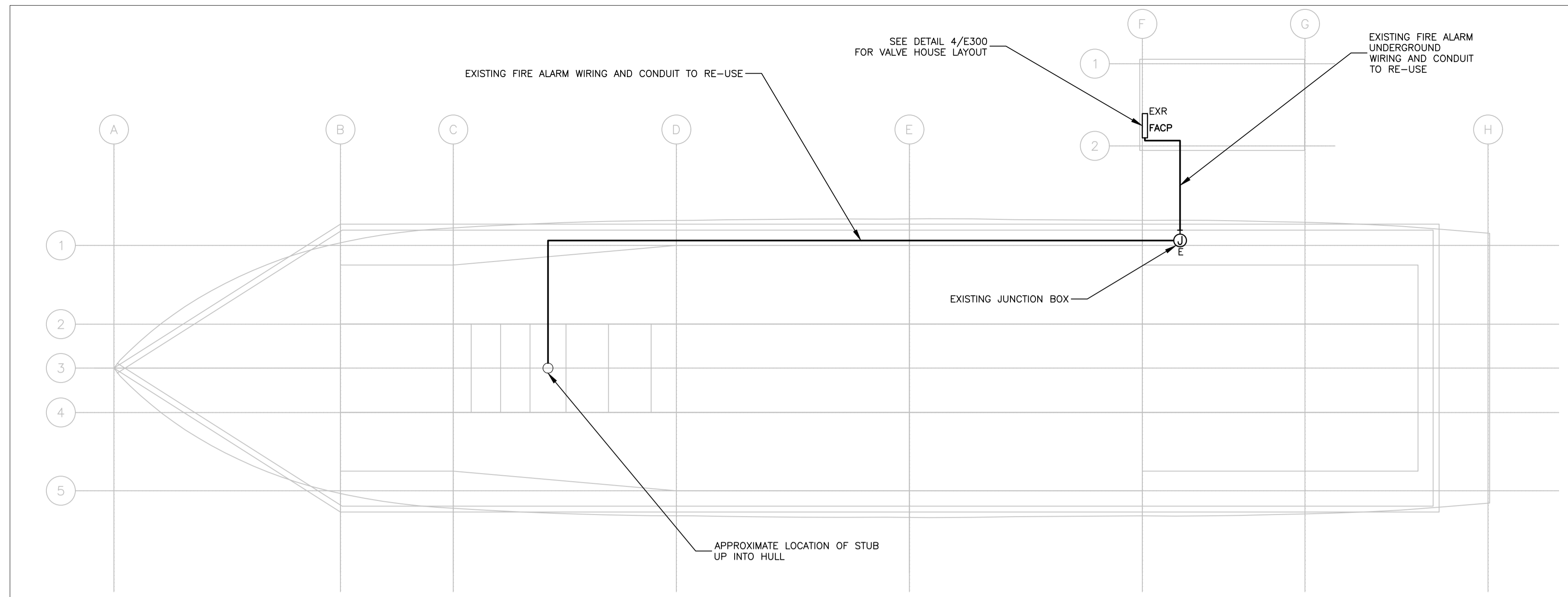
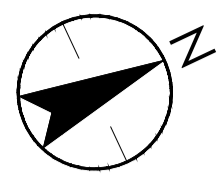
Project title/Titre du projet
DAWSON CITY YUKON TERRITORY
SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

Consultant Signature Only
 Designed by/Concept par
JORDAN YOUNGS
 Drawn by/Dessiné par
KONRAD GOLUCH
 PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Régional, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

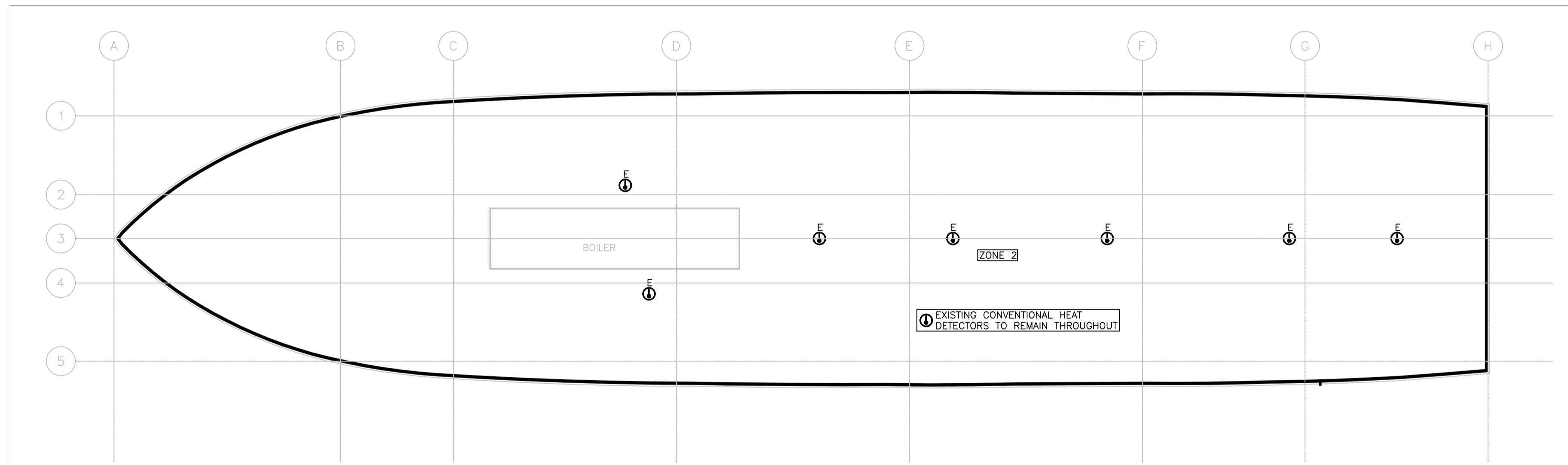
Drawing title/Titre du dessin
FIRE ALARM RISER DIAGRAM, PANEL, FIRE ALARM AND MECHANICAL EQUIPMENT SCHEDULE, LEGEND

| Project No./No. du projet | Sheet/Feuille | Revision no./La Révision |
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| R.075645.001 | E101 | 0 |
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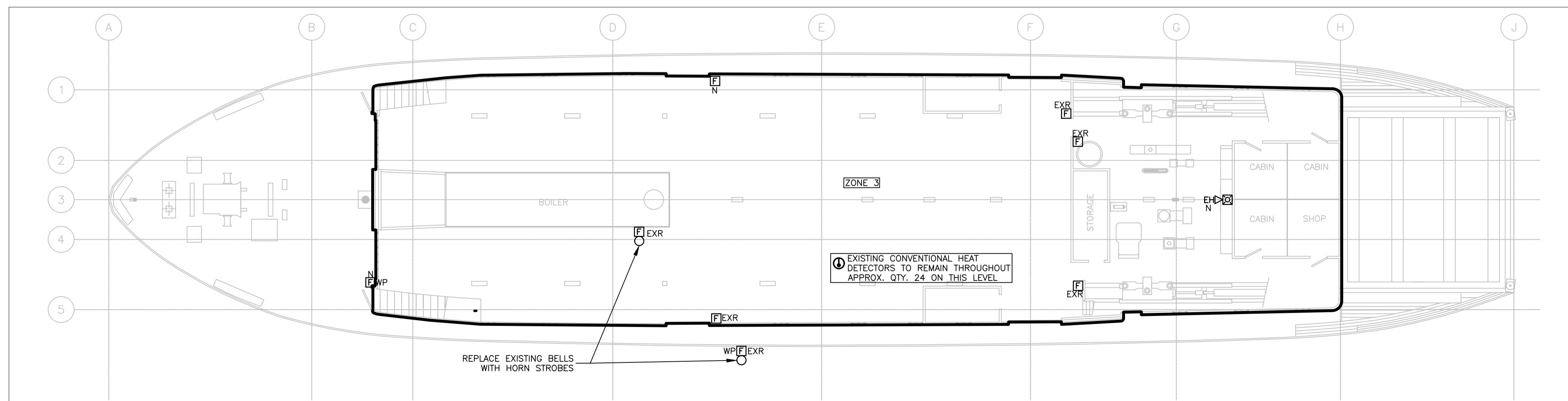




1 SS KENO FOUNDATION AND STEEL BEAM PLAN
E102 1:100



2 SS KENO HULL PLAN
E102 1:100



3 SS KENO FREIGHT DECK PLAN
E102 1:100

NOTES:

- THE FOLLOWING SYMBOLS INDICATE ACTIONS TO BE TAKEN ON EACH DEVICE:
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PROFESSIONAL ENGINEER
STANTEC ARCHITECTURE LTD.
Signature: *Jordan Youngs*
Date: February 23, 2018
PERMIT NUMBER: PP315
Association of Professional Engineers of Yukon

| 1 | ISSUED FOR TENDER | 18/02/23 |
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| 0 | ISSUED FOR PRELIMINARY 100% | 18/01/12 |
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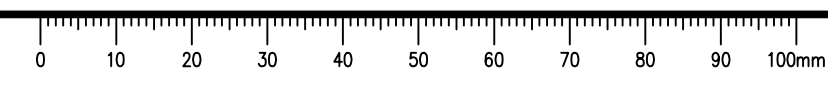
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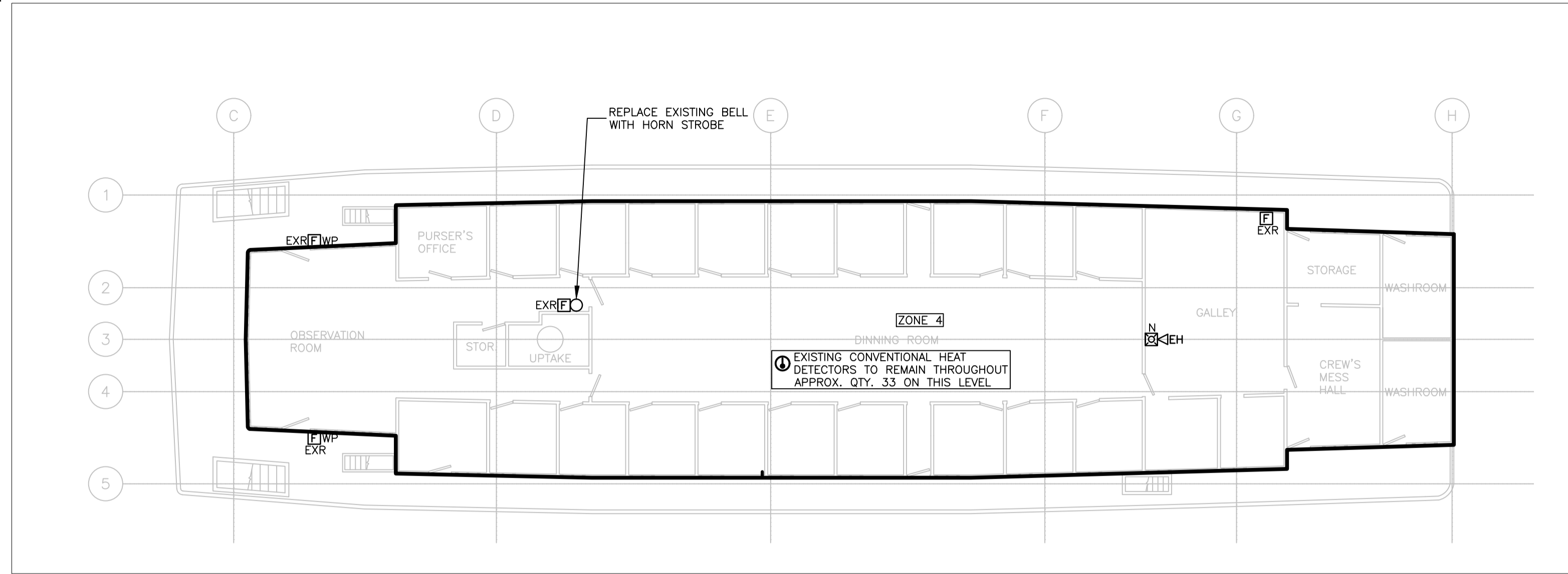
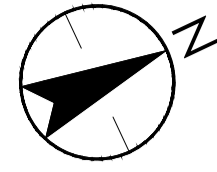
Project title/Titre du projet
DAWSON CITY YUKON TERRITORY
SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

Consultant Signature Only
Designed by/Concept par
JORDAN YOUNGS
Drawn by/Dessiné par
KONRAD GOLUCH
PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Régionale, Services d'architecture et de génie, TPSGC
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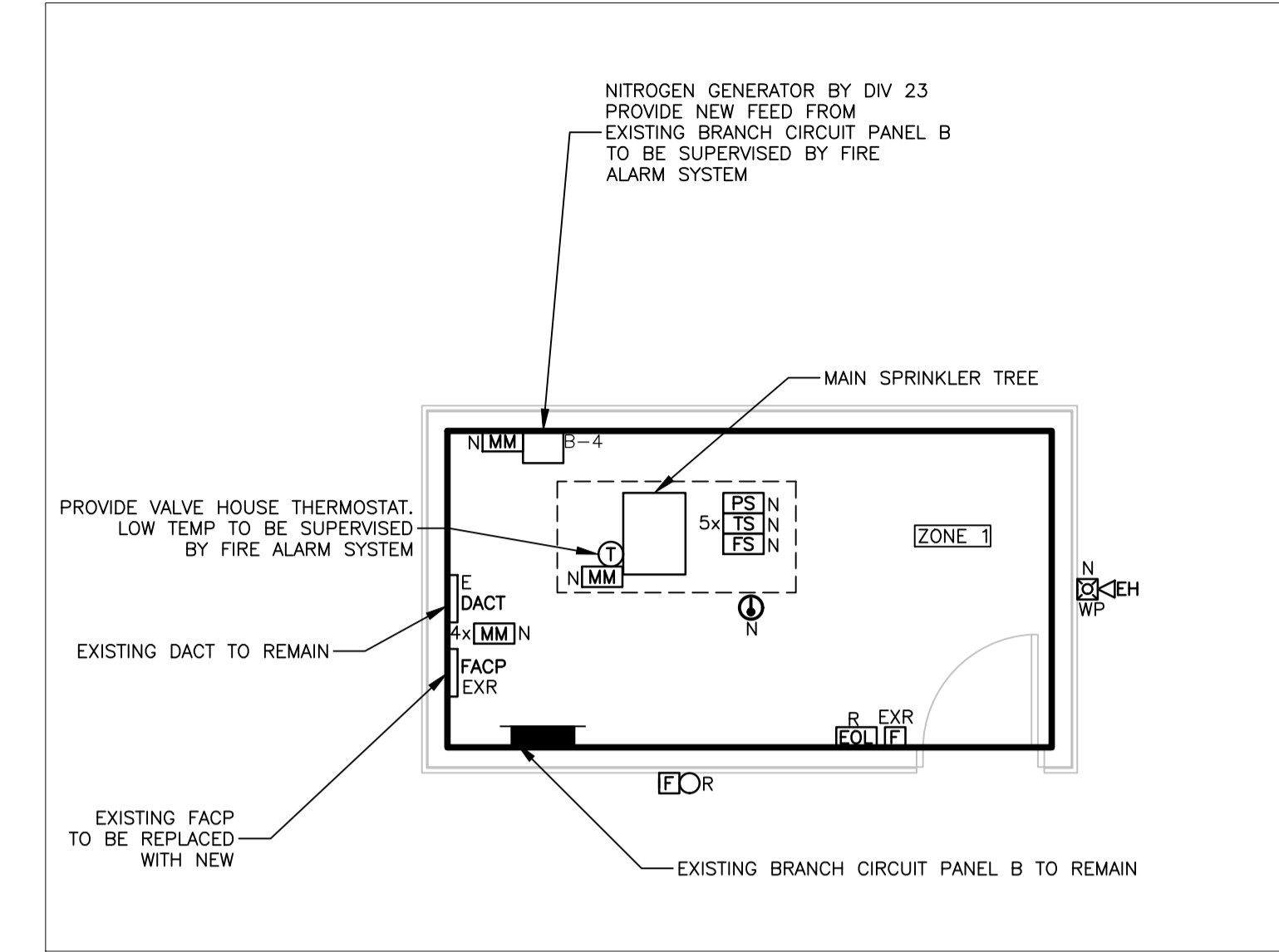
Drawing title/Titre du dessin
FOUNDATION&STEEL BEAM, HULL AND FREIGHT FLOOR PLANS AND DETAILS

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| Project No./No. du projet R.075645.001 | Sheet/Feuille E102 | Revision no./La Révision 1 |
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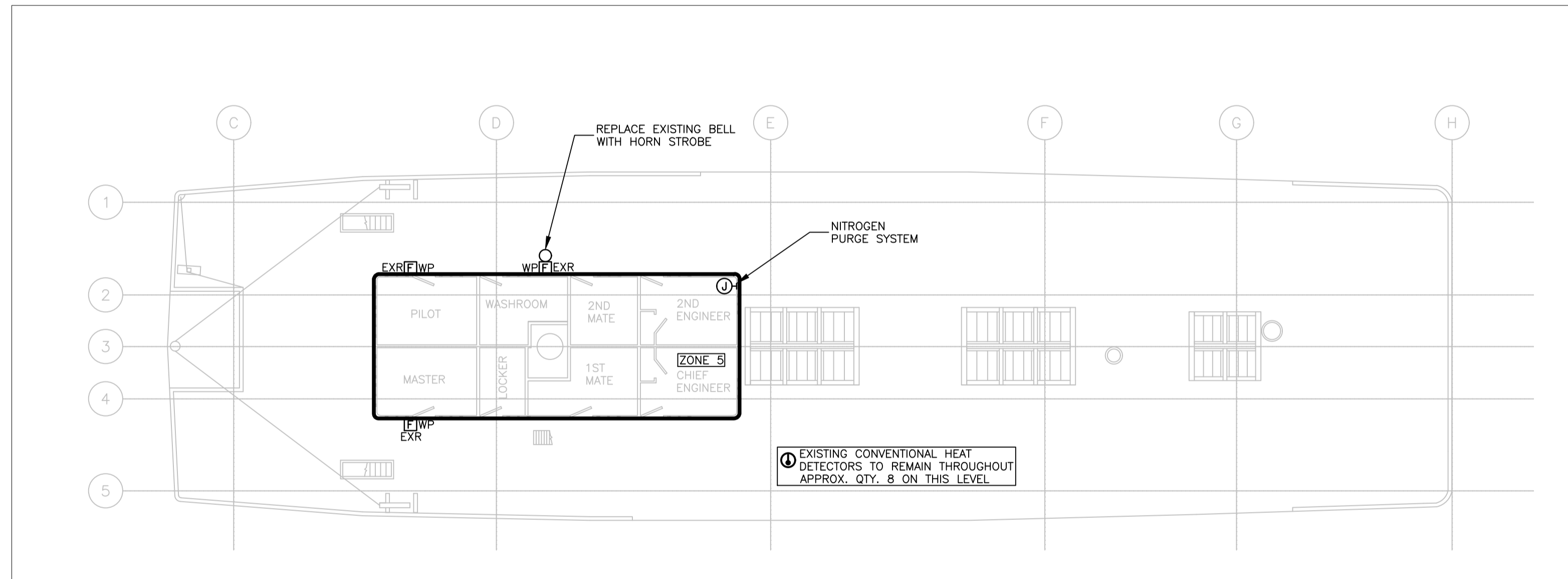




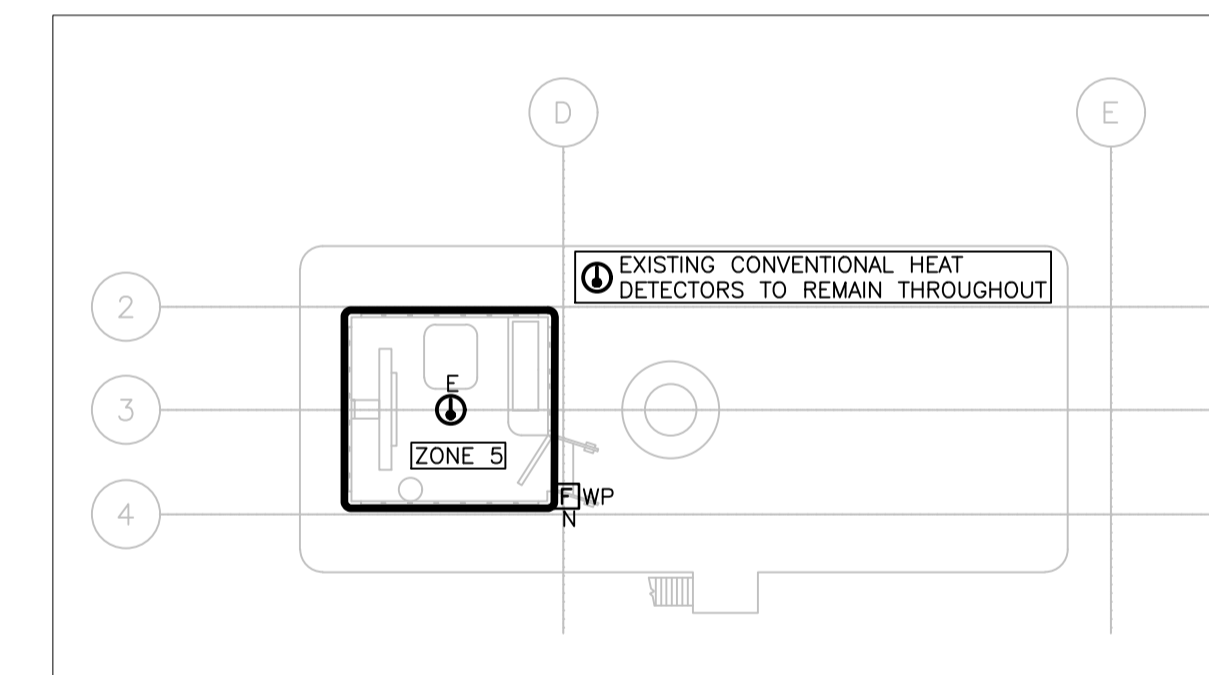
1 SS KENO SALOON DECK PLAN
E103 1:100



2 VALVE HOUSE PLAN
E103 1:50



3 SS KENO BOAT DECK PLAN
E103 1:100



4 SS KENO WHEELHOUSE DECK PLAN
E103 1:100

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STANTEC ARCHITECTURE LTD.
Signature: *Jordan Youngs*
Date: February 23, 2018
PERMIT NUMBER: PP315
Association of Professional Engineers of Yukon

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| 1 | ISSUED FOR TENDER | 18/02/23 |
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Client/client
PARKS CANADA AGENCY
WESTERN AND NORTHERN REGION

Project title/Titre du projet
DAWSON CITY YUKON TERRITORY
SS KENO NATIONAL HISTORIC SITE FIRE SUPPRESSION SYSTEM UPGRADE

Consultant Signature Only
Designed by/Concept par: **JORDAN YOUNGS**
Drawn by/Dessiné par: **KONRAD GOLUCH**
PWGSC Project Manager/Administrateur de Projets TPSGC: **TOM DUNPHY**
Regional Manager, Architectural and Engineering Services / Directeur régional, Services d'architecture et de génie, TPSGC: **PAUL PREETIPAL**

Drawing title/Titre du dessin
SALOON, BOAT AND WHEELHOUSE DECK FLOOR PLANS

| Project No./No. du projet | Sheet/Feuille | Revision no./No. de Révision |
|---------------------------|---------------|------------------------------|
| R.075645.001 | E103 | 1 |

