1. REFER ALSO TO DETAILS, SCHEMATICS, AND SCHEDULES. 2. ALL WORKS BY MANITOBA CERTIFIED PETROLEUM CONTRACTOR.

4. DESIGN AND PROVIDE STEEL PIPING SUPPORTS TO SUIT PIPE SIZE AND CONFIGURATION. AND AS PER REQUIRED SUPPORT SPACING. SUBMIT SUPPORT AND LAYOUT DRAWINGS FOR REVIEW.

1. GASOLINE STORAGE VAULT - DOUBLE WALL STEEL. 5,000 L.

COMPLETE WITH STAIRCASE AND PLATFORM.

2. DIESEL FUEL STORAGE VAULT - DOUBLE WALL STEEL - 50,000 L EACH. COMPLETE WITH SHARED STAIRCASE AND FULL ACCESS WALKWAY. TANKS AND PIPING TO BE INSTALLED SUCH THAT FUTURE DECOMMISSIONING AND REMOVAL OF ONE TANK AT A TIME, STARTING WITH FURTHEST FROM PUMP HOUSE, CAN BE PERFORMED WITHOUT IMPACTING REMAINING TANK(S) AND FUELING SYSTEM

3. DIESEL FUEL DISPENSING PUMP HOUSE. REFER TO INDUSTRIAL SCHEMATICS AND TO ARCHITECTURAL. 4. PIPING - ABOVE GROUND DIESEL FUEL - FUEL TANK FILL. PROVIDE SLAB ON GRADE PIPE SUPPORTS, NOT SHOWN.

5. PIPING - ABOVE GROUND DIESEL FUEL - TANK TO PUMP HOUSE. PROVIDE SLAB ON GRADE PIPE SUPPORTS, NOT SHOWN.

6. PIPING - ABOVE GROUND DIESEL FUEL - PUMP HOUSE TO FUELING ISLAND AND SERVICING LANES IN BUILDING.

8. REMOTE STORAGE TANK FILL BOX - GASOLINE. 9. PIPING - ABOVE GROUND GASOLINE TO/FROM TANK (FILL AND

10. FUELING DISPENSING ISLAND AREA: - DIESEL DISPENSER WITH TIGHT-FILL AND DIESEL NOZZLE, - GASOLINE DISPENSER WITH NOZZLE, - HEATED DEF STORAGE AND DISPENSER WITH TIGHT FILL AND NOZZLE OUTLETS. - FIRE EXTINGUISHERS: 2 OF 40 BC. EACH IN OUTDOOR RATED

11. TRANSITION SUMP AND SECONDARY MONITORING -

12. UNDERGROUND DIESEL PIPING - FLEXIBLE DOUBLE WALL CONTINUOUSLY LEAK MONITORED PIPING. OPW FLEXWORKS SYSTEM, OR EQUIVALENT, APPROXIMATE LOCATION COORDINATE LOCATION WITH ELECTRICAL AND OTHER DISCIPLINES. MINIMUM COVER 600MM INCLUDING CONCRETE ROADWAY.

13. TRANSITION SUMP AND SECONDARY MONITORING -UNDERGROUND TO ABOVEGROUND DIESEL PIPING.

14. DIESEL PIPING UP ALONG OUTSIDE WALL AND THROUGH WALL AT APPROXIMATELY 3600 AFF.

15 REFER TO SERVICE DRAWING 10-D-102 FOR INDOOR FUELING AND DEF LOCATION DETAILS.

16. GALVANIZED WELDED STEEL DISPENSER MOUNTING BOX FOR REAR ENTRY OF FUEL PIPING. - BOX TO BE COMPLETE WITH INTERNAL ULC FUELING SUMP. - BOX TO BE ANCHORED ONTO AREA CONCRETE PAD. - APPROXIMATE DIMENSIONS: 1000 X 600 X 150H. ADJUST TO SUIT DISPENSER. SUBMIT SHOP DRAWINGS FOR REVIEW.

40 PIPE - CONCRETE FILLED. TO 900 ABOVE GRADE, LOCATED ON 1.5M CENTERLINES AS SHOWN. TYPICAL FOR ITEMS ADJACENT TO ROADWAY. REFER TO STRUCTURAL DRAWINGS FOR BOLLARD

18. PIPING - ABOVE GROUND GASOLINE - TANK TO DISPENSING ISLAND. SLAB ON GRADE SUPPORTS NOT SHOWN.

19. FUELING SYSTEMS EMERGENCY SHUT DOWN BUTTON (RED). MOUNT ON OUTSIDE FACE OF PUMP HOUSE, A MINIMUM OF 6M FROM THE NEAREST DISPENSER AND AT 1500 ABOVE GRADE. APPLY IDENTIFICATION SIGNAGE, MINIMUM 75MM CHARACTERS, UV RESISTANT VINYL ON ALUMINUM BACKGROUND, STATING: "EMERGENCY SHUT-DOWN FOR GASOLINE AND DIESEL FUELING NOTE SIMILAR SHUT DOWN BUTTON TO ALSO BE PROVIDED AT THE INTERIOR SERVICE LANES WHERE BUSES ARE FUELED, AS INDICATED ON DWG 10-D-102.

PROJECT WINNIPEG NORTH GARAGE REPLACEMENT

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT AECOM CANADA ULC 99 Commerce Dr,

Winnipeg, MB R3P 0Y7

REGISTRATION

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PROJECT NUMBER

SHEET TITLE SITE PLAN- NEW FUELING LANES

SHEET NUMBER

00-D-101

GENERAL NOTES:
1. REFER ALSO TO DETAILS, SCHEMATICS, AND SCHEDULES.

3. MINIMUM ABOVE GRADE PIPE HEIGHT: 300MM TO UNDERSIDE OF PIPE.

2. ALL WORKS BY MANITOBA CERTIFIED PETROLEUM CONTRACTOR.

4. DESIGN AND PROVIDE STEEL PIPING SUPPORTS TO SUIT PIPE SIZE AND CONFIGURATION, AND AS PER REQUIRED SUPPORT SPACING. SUBMIT SUPPORT AND LAYOUT DRAWINGS FOR REVIEW.

DRAWING NOTES:
1. GASOLINE STORAGE VAULT - DOUBLE WALL STEEL. 5,000 L. COMPLETE WITH STAIRCASE AND PLATFORM.

2. DIESEL FUEL STORAGE VAULT - DOUBLE WALL STEEL - 50,000 L EACH. COMPLETE WITH SHARED STAIRCASE AND FULL ACCESS WALKWAY. TANKS AND PIPING TO BE INSTALLED SUCH THAT FUTURE DECOMMISSIONING AND REMOVAL OF ONE TANK AT A TIME, STARTING WITH FURTHEST FROM PUMP HOUSE, CAN BE PERFORMED WITHOUT IMPACTING REMAINING TANK(S) AND FUELING SYSTEM OPERATION.

3. DIESEL FUEL DISPENSING PUMP HOUSE. REFER TO INDUSTRIAL SCHEMATICS AND TO ARCHITECTURAL.4. PIPING - ABOVE GROUND DIESEL FUEL - FUEL TANK FILL. PROVIDE

5. PIPING - ABOVE GROUND DIESEL FUEL - TANK TO PUMP HOUSE. PROVIDE SLAB ON GRADE PIPE SUPPORTS, NOT SHOWN.6. PIPING - ABOVE GROUND DIESEL FUEL - PUMP HOUSE TO FUELING ISLAND AND SERVICING LANES IN BUILDING.

7. REMOTE STORAGE TANK FILL BOX - DIESEL FUEL.

SLAB ON GRADE PIPE SUPPORTS, NOT SHOWN.

REMOTE STORAGE TANK FILL BOX - GASOLINE.
 PIPING - ABOVE GROUND GASOLINE TO/FROM TANK (FILL AND VAPOUR RECOVERY).
 PROVIDE SLAB ON GRADE PIPE SUPPORTS, NOT SHOWN.

10. FUELING DISPENSING ISLAND AREA:
DIESEL DISPENSER WITH TIGHT-FILL AND DIESEL NOZZLE,
GASOLINE DISPENSER WITH NOZZLE,
HEATED DEF STORAGE AND DISPENSER WITH TIGHT FILL AND NOZZLE OUTLETS.
FIRE EXTINGUISHERS: 2 OF 40 BC. EACH IN OUTDOOR RATED

- HEATED DEF STORAGE AND DISPENSER WITH TIGHT FILL AND NOZZLE OUTLETS.
- FIRE EXTINGUISHERS: 2 OF 40 BC. EACH IN OUTDOOR RATED CABINET WITH LATCH TYPE SEE-THROUGH DOOR,
- STANDARD PETROLEUM 205L POLY DRUM SPILLKIT. MINIMUM 150L ABSORPTION.

11. TRANSITION SUMP AND SECONDARY MONITORING - ABOVEGROUND TO UNDERGROUND DIESEL.

12. UNDERGROUND DIESEL PIPING - FLEXIBLE DOUBLE WALL CONTINUOUSLY LEAK MONITORED PIPING. OPW FLEXWORKS SYSTEM, OR EQUIVALENT. APPROXIMATE LOCATION COORDINATE LOCATION WITH ELECTRICAL AND OTHER DISCIPLINES. MINIMUM COVER 600MM INCLUDING CONCRETE ROADWAY.

13. TRANSITION SUMP AND SECONDARY MONITORING - UNDERGROUND TO ABOVEGROUND DIESEL PIPING.

14. DIESEL PIPING UP ALONG OUTSIDE WALL AND THROUGH WALL AT APPROXIMATELY 3600 AFF.

15 REFER TO SERVICE DRAWING 10-D-102 FOR INDOOR FUELING AND

DEF LOCATION DETAILS.

16. GALVANIZED WELDED STEEL DISPENSER MOUNTING BOX FOR REAR ENTRY OF FUEL PIPING.

16. GALVANIZED WELDED STEEL DISPENSER MOUNTING BOX FOR REAR ENTRY OF FUEL PIPING.

- BOX TO BE COMPLETE WITH INTERNAL ULC FUELING SUMP.

- BOX TO BE ANCHORED ONTO AREA CONCRETE PAD.

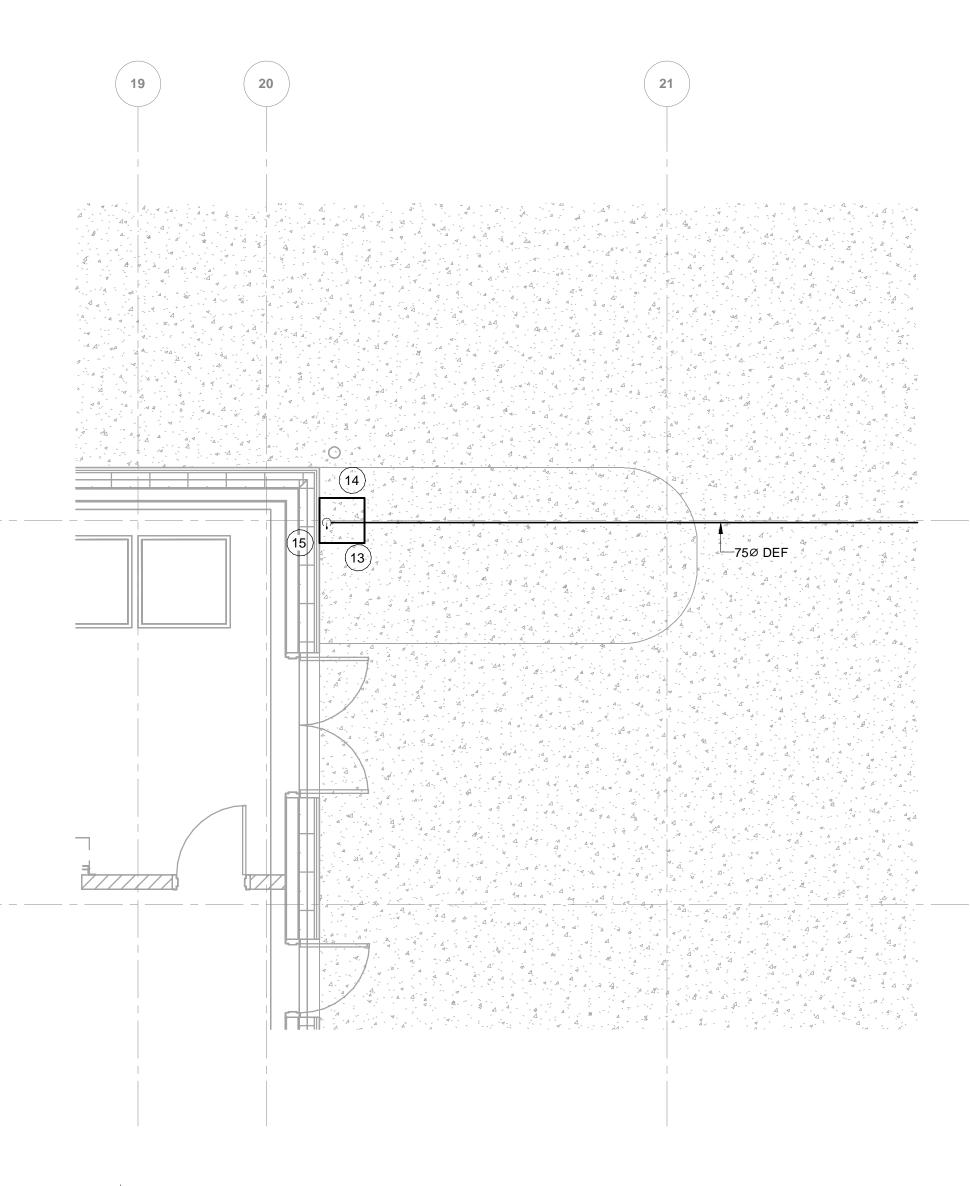
- APPROXIMATE DIMENSIONS: 1000 X 600 X 150H. ADJUST TO SUIT DISPENSER. SUBMIT SHOP DRAWINGS FOR REVIEW.

17. IN-GROUND BOLLARDS - MINIMUM 100DIA (NOMINAL) SCHEDULE 40 PIPE - CONCRETE FILLED. TO 900 ABOVE GRADE, LOCATED ON 1.5M CENTERLINES AS SHOWN. TYPICAL FOR ITEMS ADJACENT TO ROADWAY. REFER TO STRUCTURAL DRAWINGS FOR BOLLARD DETAILS.

18. PIPING - ABOVE GROUND GASOLINE - TANK TO DISPENSING ISLAND. SLAB ON GRADE SUPPORTS NOT SHOWN.

19. FUELING SYSTEMS EMERGENCY SHUT DOWN BUTTON (RED). MOUNT ON OUTSIDE FACE OF PUMP HOUSE, A MINIMUM OF 6M FROM THE NEAREST DISPENSER AND AT 1500 ABOVE GRADE. APPLY IDENTIFICATION SIGNAGE, MINIMUM 75MM CHARACTERS, UV RESISTANT VINYL ON ALUMINUM BACKGROUND, STATING: "EMERGENCY SHUT-DOWN FOR GASOLINE AND DIESEL FUELING SYSTEMS"

NOTE SIMILAR SHUT DOWN BUTTON TO ALSO BE PROVIDED AT THE INTERIOR SERVICE LANES WHERE BUSES ARE FUELED, AS INDICATED ON DWG 10-D-102.



2 ENLARGED SITE PLAN - 2 -102 1:50 PROJECT

AECOM

PROJECT
WINNIPEG NORTH GARAGE
REPLACEMENT
100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



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CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

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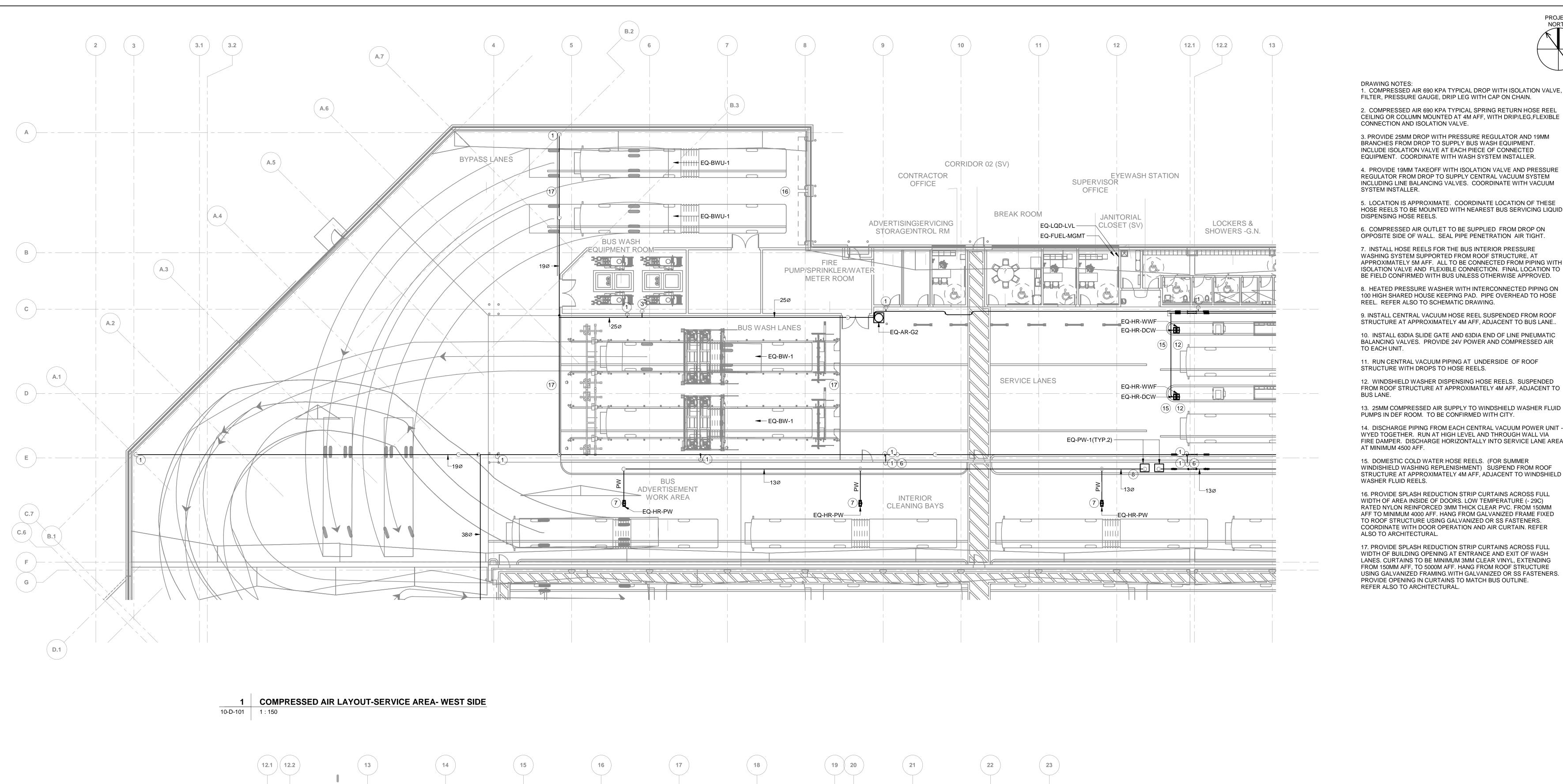
60721079
SHEET TITLE

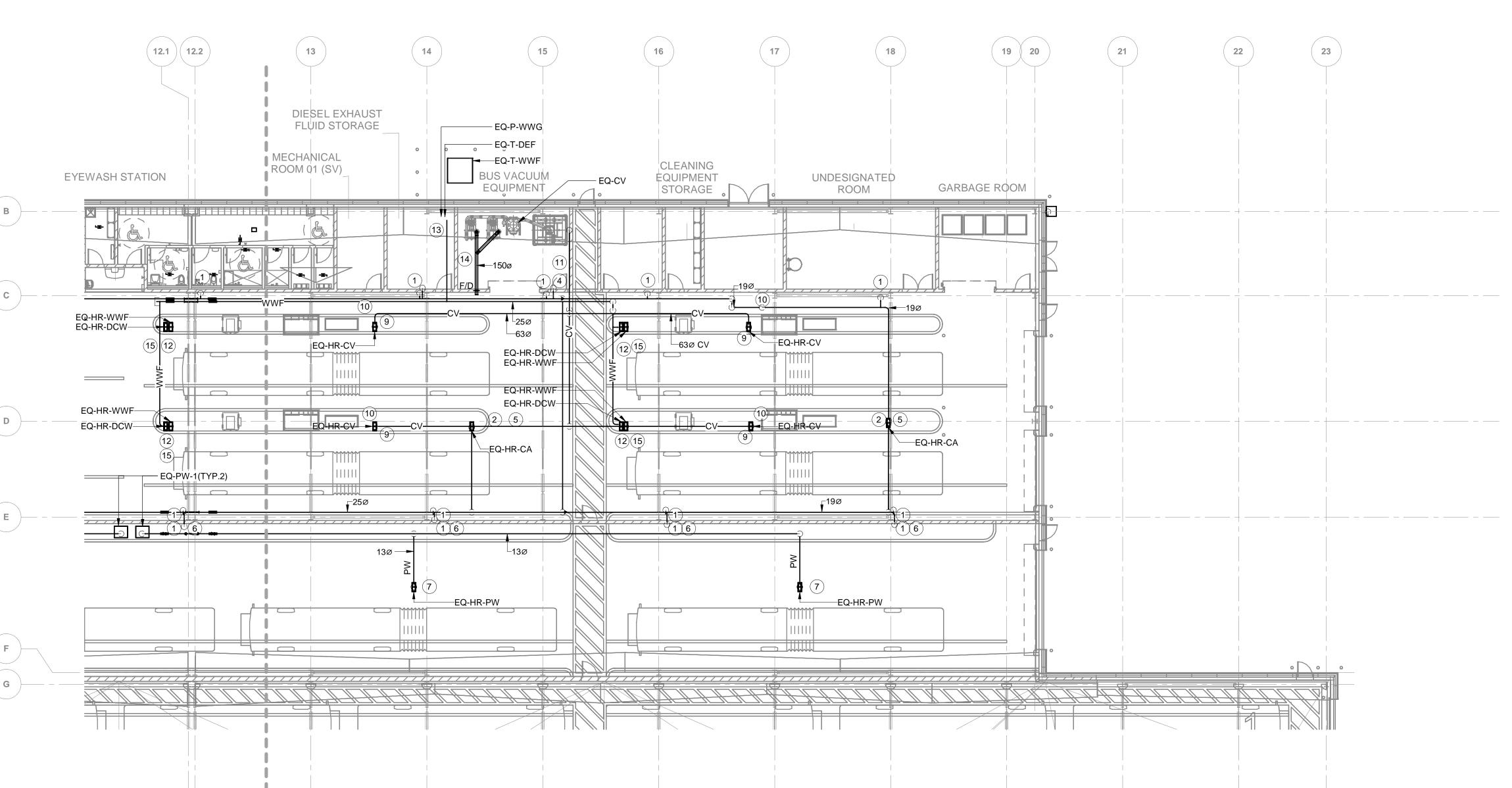
ENLARGED SITE PLAN- NEW FUELING LANES

SHEET NUMBER

00-D-102

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2 COMPRESSED AIR AND CLEANING SYSTEMS LAYOUT-SERVICE AREA-EAST SIDE

10-D-101 1 : 150

NORTH **PROJECT**

1. COMPRESSED AIR 690 KPA TYPICAL DROP WITH ISOLATION VALVE, FILTER, PRESSURE GAUGE, DRIP LEG WITH CAP ON CHAIN.

2. COMPRESSED AIR 690 KPA TYPICAL SPRING RETURN HOSE REEL CEILING OR COLUMN MOUNTED AT 4M AFF, WITH DRIP/LEG,FLEXIBLE CONNECTION AND ISOLATION VALVE.

3. PROVIDE 25MM DROP WITH PRESSURE REGULATOR AND 19MM BRANCHES FROM DROP TO SUPPLY BUS WASH EQUIPMENT. INCLUDE ISOLATION VALVE AT EACH PIECE OF CONNECTED EQUIPMENT. COORDINATE WITH WASH SYSTEM INSTALLER.

4. PROVIDE 19MM TAKEOFF WITH ISOLATION VALVE AND PRESSURE REGULATOR FROM DROP TO SUPPLY CENTRAL VACUUM SYSTEM INCLUDING LINE BALANCING VALVES. COORDINATE WITH VACUUM SYSTEM INSTALLER.

5. LOCATION IS APPROXIMATE. COORDINATE LOCATION OF THESE HOSE REELS TO BE MOUNTED WITH NEAREST BUS SERVICING LIQUID DISPENSING HOSE REELS.

6. COMPRESSED AIR OUTLET TO BE SUPPLIED FROM DROP ON OPPOSITE SIDE OF WALL. SEAL PIPE PENETRATION AIR TIGHT.

7. INSTALL HOSE REELS FOR THE BUS INTERIOR PRESSURE WASHING SYSTEM SUPPORTED FROM ROOF STRUCTURE, AT APPROXIMATELY 5M AFF. ALL TO BE CONNECTED FROM PIPING WITH ISOLATION VALVE AND FLEXIBLE CONNECTION. FINAL LOCATION TO BE FIELD CONFIRMED WITH BUS UNLESS OTHERWISE APPROVED. 8. HEATED PRESSURE WASHER WITH INTERCONNECTED PIPING ON 100 HIGH SHARED HOUSE KEEPING PAD. PIPE OVERHEAD TO HOSE

9. INSTALL CENTRAL VACUUM HOSE REEL SUSPENDED FROM ROOF STRUCTURE AT APPROXIMATELY 4M AFF, ADJACENT TO BUS LANE.. 10. INSTALL 63DIA SLIDE GATE AND 63DIA END OF LINE PNEUMATIC

BALANCING VALVES. PROVIDE 24V POWER AND COMPRESSED AIR TO EACH UNIT.

11. RUN CENTRAL VACUUM PIPING AT UNDERSIDE OF ROOF STRUCTURE WITH DROPS TO HOSE REELS. 12. WINDSHIELD WASHER DISPENSING HOSE REELS. SUSPENDED

13. 25MM COMPRESSED AIR SUPPLY TO WINDSHIELD WASHER FLUID PUMPS IN DEF ROOM. TO BE CONFIRMED WITH CITY. 14. DISCHARGE PIPING FROM EACH CENTRAL VACUUM POWER UNIT -

WYED TOGETHER. RUN AT HIGH LEVEL AND THROUGH WALL VIA FIRE DAMPER. DISCHARGE HORIZONTALLY INTO SERVICE LANE AREA AT MINIMUM 4500 AFF.

15. DOMESTIC COLD WATER HOSE REELS. (FOR SUMMER WINDISHIELD WASHING REPLENISHMENT) SUSPEND FROM ROOF STRUCTURE AT APPROXIMATELY 4M AFF, ADJACENT TO WINDSHIELD WASHER FLUID REELS.

16. PROVIDE SPLASH REDUCTION STRIP CURTAINS ACROSS FULL WIDTH OF AREA INSIDE OF DOORS. LOW TEMPERATURE (- 29C) RATED NYLON REINFORCED 3MM THICK CLEAR PVC. FROM 150MM AFF TO MINIMUM 4000 AFF. HANG FROM GALVANIZED FRAME FIXED TO ROOF STRUCTURE USING GALVANIZED OR SS FASTENERS. COORDINATE WITH DOOR OPERATION AND AIR CURTAIN. REFER ALSO TO ARCHITECTURAL.

WIDTH OF BUILDING OPENING AT ENTRANCE AND EXIT OF WASH LANES. CURTAINS TO BE MINIMUM 3MM CLEAR VINYL, EXTENDING FROM 150MM AFF, TO 5000M AFF. HANG FROM ROOF STRUCTURE USING GALVANIZED FRAMING. WITH GALVANIZED OR SS FASTENERS. PROVIDE OPENING IN CURTAINS TO MATCH BUS OUTLINE. REFER ALSO TO ARCHITECTURAL.

WINNIPEG NORTH GARAGE REPLACEMENT 100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



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CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

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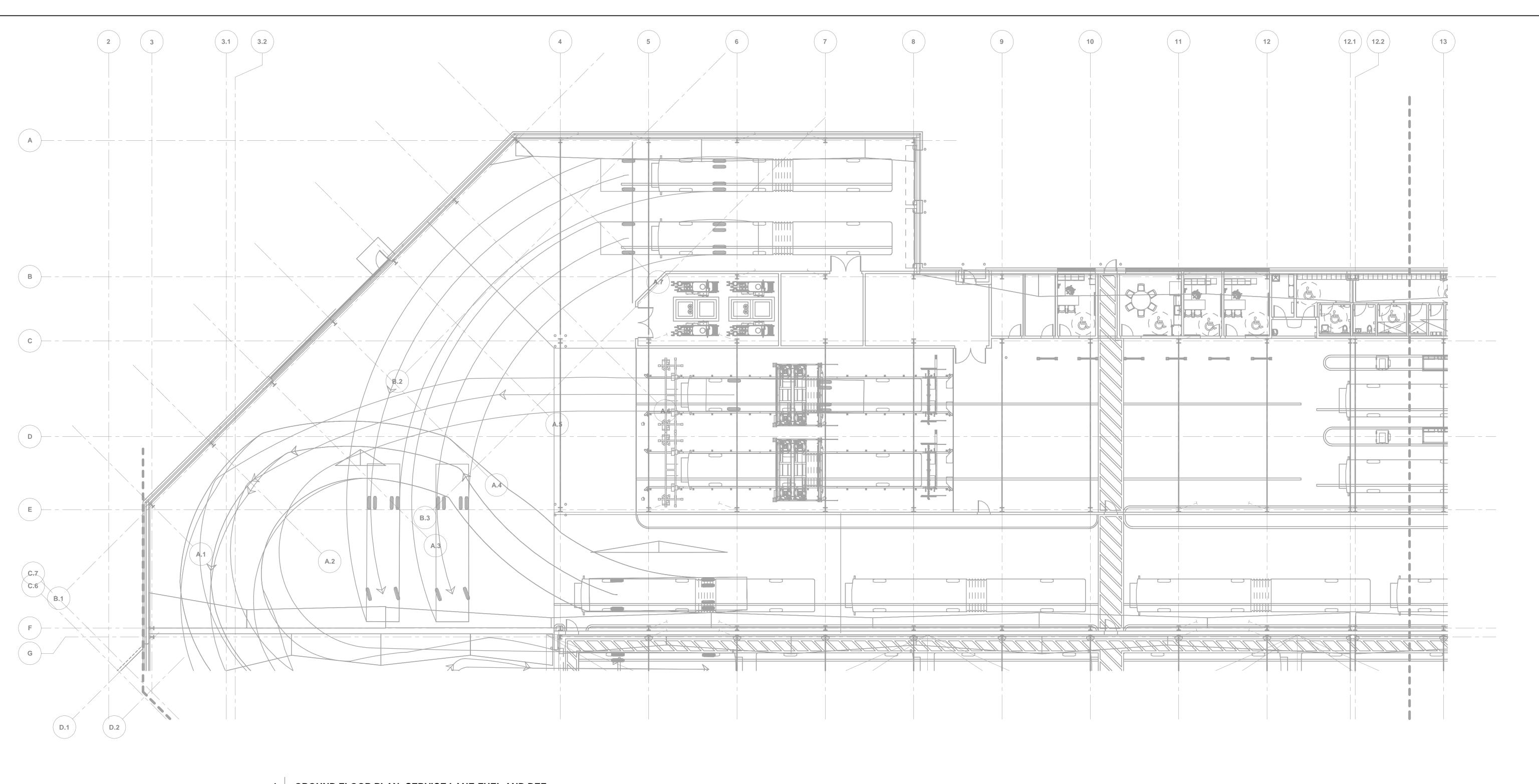
PROJECT NUMBER

60721079

SHEET TITLE **GROUND FLOOR PLAN- SERVICE** LANE-COMPRESSED AIR AND **CLEANING SYSTEMS LAYOUT**

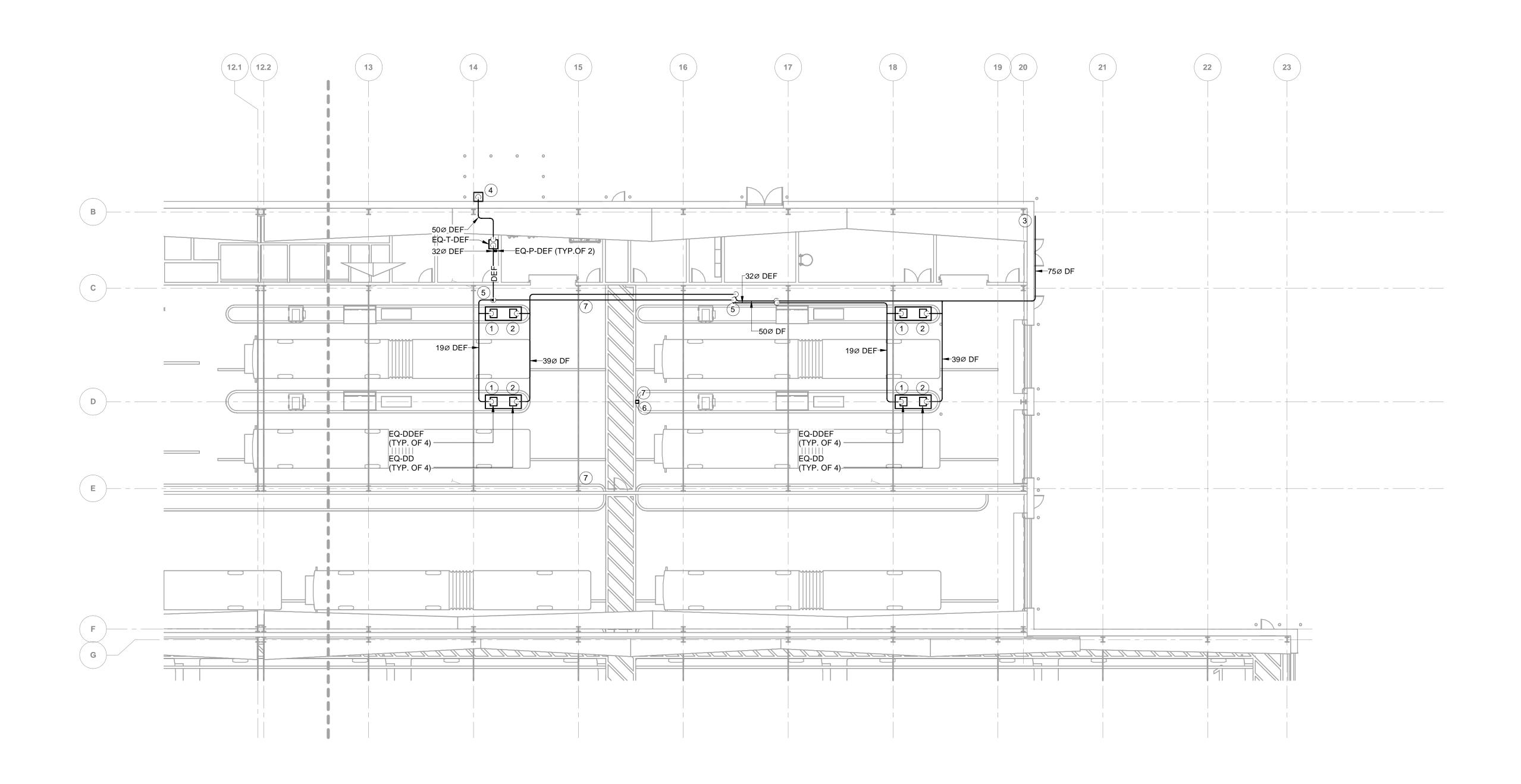
SHEET NUMBER

10-D-101





2 GROUND FLOOR PLAN- SERVICE LANE-FUEL AND DEF



PROJECT

DRAWING NOTES:

1. FLOOR BASED DEF DISPENSING METER AND CABINET, COMPLETE WITH 6M HOSE AND BUS CONNECTION (TO BE CONFIRMED WITH CITY)

2. FLOOR BASED DIESEL FUEL DISPENSING

METER AND CABINET, COMPLETE WITH ULC SUMP, SIDE /REAR PIPE ENTRY BOX (REFER SCHEMATICS), 6M HOSE AND TIGHT FILL CONNECTION.

3. DIESEL FUEL PIPING UP FROM UNDERGROUND TRANSITION SUMP TO

APPROXIMATELY 4M ABOVE GRADE, THEN

4. DEF TANK FILL CONNECTION WITH LOCKABLE 55L SPILL BOX, TANK LEVEL MONITORING AND OVERFILL ALARM. COORDINATE LOCATION WITH WINDSHIELD WASHER FLUID TANK AND PIPING INSTALLATION.

THROUGH WALL.

5. DIESEL AND DEF PIPING AT WALL TO BE RUN TIGHT TO WALL (MINIMUM 3.2M AFF) OR AT UNDERSIDE OF STRUCTURE. COORDINATE WITH ALL OTHER SERVICES.

6. EMERGENCY SHUT OFF FOR ALL FUEL SYSTEMS. LOCATED ON ISLAND AT 1200 ABOVE ISLAND CONCRETE. PROVIDE ALSO AT OUTSIDE FUEL DISPENSING LOCATION. REFER TO DWG

7. SIGNAGE - DOUBLE SIDED, MINIMUM 75MM CHARACTERS, INDICATING LOCATION OF EMERGENCY FUEL SYSTEM SHUT OFF. TYPICAL. INSTALL TO COLUMN/WALL WITH BOTTOM AT 2.1M AFF, TO BE VISIBLE FROM ALL DIRECTIONS.

AECOM

WINNIPEG NORTH GARAGE

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT

REPLACEMENT



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Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

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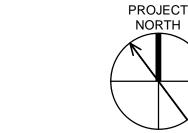
60721079

SHEET TITLE

GROUND FLOOR PLAN- SERVICE
LANE-FUEL AND DEF

SHEET NUMBER

10-D-102



PROJECT

CLIENT

City of Winnipeg

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Winnipeg Transit

CONSULTANT

99 Commerce Dr,

REGISTRATION

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Winnipeg, MB R3L 2A1

AECOM CANADA ULC

Winnipeg, MB R3P 0Y7

Winnipeg, MB R3B 1B9

510 Main St.

REPLACEMENT

WINNIPEG NORTH GARAGE

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

DRAWING NOTES: 1. COMPRESSED AIR (C.A.) 690 KPA TYPICAL 19MM DROP WITH ISOLATION VALVE, FILTER, PRESSURE GAUGE, DRIP LEG WITH CAP

2. COMPRESSED AIR 690 KPA TYPICAL SPRING RETURN HOSE REEL ROOF STRUCTURE MOUNTED AT 5M AFF, WITH 13MM DRIP LEG, FLEXIBLE CONNECTION AND ISOLATION VALVE. COORDINATE

3. PROVIDE 19DIA UNDERFLOOR 690 KPA COMPRESSED AIR SUPPLY BRANCH INTO EACH BUS LIFT CONTROL CONSOLE, PROVIDE BRANCH ISOLATION VALVE ON WALL AT 1200 AFF. REFER TO HOIST MANUFACTURER FOR COMPRESSED AIR FROM CONSOLE TO LIFT VIA UNDERGROUND CONDUIT.

4. PROVIDE 690 KPA COMPRESSED AIR GENERAL USE STATION AT 1050 AFF ADJACENT TO BUS LIFT CONTROL STATION. INSTALL ON DEDICATED HSS PEDESTAL, OR SECURE TO CONTROL STATION IF APPROVED BY MANUFACTURER. SUPPLY FROM BUS HOIST CONTROL STATION. PROVIDE LOCAL ISOLATION VALVE AND CITY STANDARD QUICK DISCONNECT.

BRANCH ISOLATION VALVE AT EACH BENCH. INSTALL CITY

7. COMPRESSED AIR SUPPLY DROP TO UNDERFLOOR BRANCH SUPPLYING WORKBENCHES AND BUS LIFT CONTROL CABINETS.

8.COMPRESSED AIR TIRE FILL 845 KPA TYPICAL SPRING RETURN HOSE REEL ROOF STRUCTURE MOUNTED AT 5M AFF, WITH 13MM DRIP LEG, FLEXIBLE CONNECTION AND ISOLATION VALVE. COORDINATE LOCATION WITH END USERS.

9. 100 NOMINAL SCHEDULE 40 X 900MM HIGH STEEL PIPE BOLLARDS ON 1.2M CENTERLINES, ALL AROUND COMPRESSED AIR AREA. BASE PLATE MOUNTED WITH MINIMUM 4 OF 13MM ANCHOR BOLTS. 11. WASTE OIL TRANSFER STATION. INSTALL BASINS AND PUMP ON

12. PROVIDE SIGN: "WASTE OIL ONLY. ACTIVATE TRANSFER PUMP

13. WASTE COOLANT TRANSFER STATION. INSTALL ON HSS FRAME

14. PROVIDE SIGN: "WASTE COOLANT ONLY. ACTIVATE TRANSFER PUMP USING SWITCH PRIOR TO DUMPING OF OIL INTO SYSTEM, AND

15. SHARED HOSE REEL STATIONS MOUNTED OVERHEAD. CONFIRM FINAL LOCATION WITH END USERS AND TEST WITH BUS. BOTTOM OF REELS AT MINIMUM 5M AFF. REELS COMPLETE WITH FLEXIBLE

16. HIGH PRESSURE WASHER HOSE REEL MOUNTED AT 5M AFF, COMPLETE WITH MOTORIZED RETURN. REFER TO SCHEMATIC

17. ENGINE OIL (EO) AND COOLANT (EC) FILL SPILL BOX (MINIMUM

TO MINIMUM 3M AFF ALONG WALL AND TO TANK CONNECTION.

19. EO AND EC TANKS. COMPLETE WITH REMOTE LEVEL MONITORING , MECHANICAL OVERFILL VALVE, AND OVERFILL

20. WASTE OIL AND WASTE COOLANT TANK. COMPLETE WITH REMOTE LEVEL MONITORING , MECHANICAL OVERFILL VALVE, AND OVERFILL SHUTOFF SOLENOID VALVE.

21. BUS ENGINE EXHAUST EXTRACTION HOSE REEL. MOUNT WITH BOTTOM AT APPROXIMATELY 4.5M AFF. CONFIRM LOCATION WITH TEST BUS OF ALL SIZES.

LOCATION WITH END USERS.

5. PROVIDE 25MM 690 KPA COMPRESSED AIR DROP FROM MAINS WITH BRANCHES TO ALL LIQUID DISTRIBUTION PUMPS. REFER TO COMPRESSED AIR AND LIQUID DISTRIBUTION SCHEMATIC DRAWINGS.

6. PROVIDE 19DIA UNDERFLOOR 690 KPA COMPRESSED AIR SUPPLY FROM UNDERFLOOR SUPPLY BRANCH TO WORKBENCH. PROVIDE STANDARD QUICK DISCONNECT. COORDINATE LOCATIONS WITH ARCHITECTURAL LAYOUTS.

HSS FRAME SHARED WITH WC STATION. RUN PIPING VERTICALLY UP TO STRUCTURE. PROVIDE VERTICAL PIPE SUPPORT FROM HSS FRAME UP TO 3600 AFF. REFER TO SCHEMATIC DRAWING AND

USING SWITCH PRIOR TO DUMPING OF OIL INTO SYSTEM, AND FOR A MINIMUM OF 1 MINUTE AFTER."

SHARED WITH WASTE OIL STATION. RUN PIPING VERTICALLY UP TO STRUCTURE. PROVIDE VERTICAL PIPE SUPPORT FROM HSS FRAME UP TO 3600 AFF. REFER TO SHCEMATIC DRAWING AND DETAILS.

FOR A MINIMUM OF 1 MINUTE AFTER."

CONNECTIONS AND ISOLATION VALVES.

DRAWINGS AND DETAILS.

50L) WITH DUAL 50dia OUTLETS, LOCKABLE COVER.

18. EO AND EC FILL PIPING. THROUGH WALL AT SPILL BOX LEVEL, COMPLETE WITH VENT WHISTLE, MECHANICAL OVERFLOW AND FILL ALARM AT SPILL BOX.

SHUTOFF SOLENOID VALVE.

22. MONORAIL HOIST, COMPLETE WITH SEPARATE C-TRACK TYPE FESTOONING SYSTEM. COORDINATE WITH STRUCTURAL AND ALL OTHER TRADES. TYPICAL ALL BAYS.

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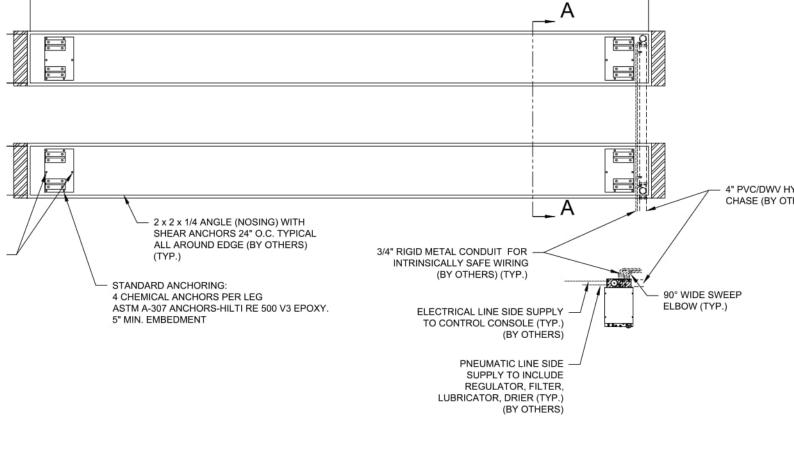
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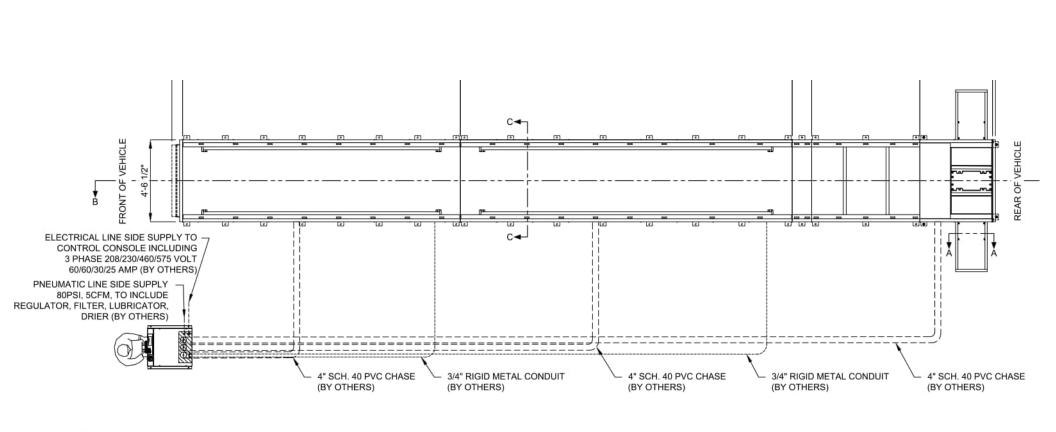
SHEET TITLE COMPRESSED AIR AND SERVCE PIPING ENLARGED PLAN-REPAIR **GARAGE 1 OF 2**

SHEET NUMBER

30-D-101



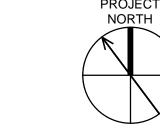
3 SKYLIFT 30-D-101 1 : 1



2 DIAMOND LIFT ILLUSTRATION NOT TO SCALE - CONFIRM INSTALLATION REQUIREMENTS WITH SUPPLIER

TYPICAL BUS LIFT UNDERGROUND PIPING AND CONDUIT REQUIREMENTS. BASED ON STERTIL-KONI PRODUCS.

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PROJECT

CLIENT

City of Winnipeg

1.877.311.4974

Winnipeg Transit

CONSULTANT

99 Commerce Dr,

REGISTRATION

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AECOM CANADA ULC

Winnipeg, MB R3P 0Y7

Winnipeg, MB R3B 1B9

510 Main St.

REPLACEMENT

WINNIPEG NORTH GARAGE

100 Oak Point Hwy, Winnipeg, MB R2R 1V1



1. COMPRESSED AIR (C.A.) 690 KPA TYPICAL 19MM DROP WITH ISOLATION VALVE, FILTER, PRESSURE GAUGE, DRIP LEG WITH CAP

2. COMPRESSED AIR 690 KPA TYPICAL SPRING RETURN HOSE REEL ROOF STRUCTURE MOUNTED AT 5M AFF, WITH 13MM DRIP LEG, FLEXIBLE CONNECTION AND ISOLATION VALVE. COORDINATE

3. PROVIDE 19DIA UNDERFLOOR 690 KPA COMPRESSED AIR SUPPLY BRANCH INTO EACH BUS LIFT CONTROL CONSOLE, PROVIDE BRANCH ISOLATION VALVE ON WALL AT 1200 AFF. REFER TO HOIST MANUFACTURER FOR COMPRESSED AIR FROM CONSOLE TO LIFT VIA

WITH BRANCHES TO ALL LIQUID DISTRIBUTION PUMPS. REFER TO

6. PROVIDE 19DIA UNDERFLOOR 690 KPA COMPRESSED AIR SUPPLY FROM UNDERFLOOR SUPPLY BRANCH TO WORKBENCH. PROVIDE BRANCH ISOLATION VALVE AT EACH BENCH. INSTALL CITY STANDARD QUICK DISCONNECT. COORDINATE LOCATIONS WITH

SUPPLYING WORKBENCHES AND BUS LIFT CONTROL CABINETS.

8.COMPRESSED AIR TIRE FILL 845 KPA TYPICAL SPRING RETURN HOSE REEL ROOF STRUCTURE MOUNTED AT 5M AFF, WITH 13MM DRIP LEG, FLEXIBLE CONNECTION AND ISOLATION VALVE. COORDINATE LOCATION WITH END USERS.

ON 1.2M CENTERLINES, ALL AROUND COMPRESSED AIR AREA. BASE PLATE MOUNTED WITH MINIMUM 4 OF 13MM ANCHOR BOLTS.

HSS FRAME SHARED WITH WC STATION. RUN PIPING VERTICALLY UP TO STRUCTURE. PROVIDE VERTICAL PIPE SUPPORT FROM HSS FRAME UP TO 3600 AFF. REFER TO SCHEMATIC DRAWING AND

12. PROVIDE SIGN: "WASTE OIL ONLY. ACTIVATE TRANSFER PUMP USING SWITCH PRIOR TO DUMPING OF OIL INTO SYSTEM, AND FOR A MINIMUM OF 1 MINUTE AFTER."

UP TO 3600 AFF. REFER TO SHCEMATIC DRAWING AND DETAILS.

PUMP USING SWITCH PRIOR TO DUMPING OF OIL INTO SYSTEM, AND FOR A MINIMUM OF 1 MINUTE AFTER."

14. PROVIDE SIGN: "WASTE COOLANT ONLY. ACTIVATE TRANSFER

REELS AT MINIMUM 5M AFF. REELS COMPLETE WITH FLEXIBLE CONNECTIONS AND ISOLATION VALVES.

COMPLETE WITH MOTORIZED RETURN. REFER TO SCHEMATIC DRAWINGS AND DETAILS.

50L) WITH DUAL 50dia OUTLETS, LOCKABLE COVER.

TO MINIMUM 3M AFF ALONG WALL AND TO TANK CONNECTION. ALARM AT SPILL BOX.

20. WASTE OIL AND WASTE COOLANT TANK. COMPLETE WITH

BOTTOM AT APPROXIMATELY 4.5M AFF. CONFIRM LOCATION WITH TEST BUS OF ALL SIZES.

FESTOONING SYSTEM. COORDINATE WITH STRUCTURAL AND ALL OTHER TRADES. TYPICAL ALL BAYS.

MONORAIL TO PROTECT HOIST AND TROLLEY FROM WASHBAY ACTIVITIES. GARAGE TO INCLUDE RUBBER OR EQUIVALENT FRONT AND BOTTOM SEALS AS REQUIRED TO SUIT HOIST AND HOIST GARAGE CONFIGURATION. CONFIRM PREFERED END WITH CLIENT.

LOCATION WITH END USERS.

UNDERGROUND CONDUIT.

4. PROVIDE 690 KPA COMPRESSED AIR GENERAL USE STATION AT 1050 AFF ADJACENT TO BUS LIFT CONTROL STATION. INSTALL ON DEDICATED HSS PEDESTAL, OR SECURE TO CONTROL STATION IF APPROVED BY MANUFACTURER. SUPPLY FROM BUS HOIST CONTROL STATION. PROVIDE LOCAL ISOLATION VALVE AND CITY STANDARD QUICK DISCONNECT.

5. PROVIDE 25MM 690 KPA COMPRESSED AIR DROP FROM MAINS COMPRESSED AIR AND LIQUID DISTRIBUTION SCHEMATIC DRAWINGS.

ARCHITECTURAL LAYOUTS. 7. COMPRESSED AIR SUPPLY DROP TO UNDERFLOOR BRANCH

9. 100 NOMINAL SCHEDULE 40 X 900MM HIGH STEEL PIPE BOLLARDS

11. WASTE OIL TRANSFER STATION. INSTALL BASINS AND PUMP ON

13. WASTE COOLANT TRANSFER STATION. INSTALL ON HSS FRAME SHARED WITH WO STATION. RUN PIPING VERTICALLY UP TO STRUCTURE. PROVIDE VERTICAL PIPE SUPPORT FROM HSS FRAME

15. SHARED HOSE REEL STATIONS MOUNTED OVERHEAD. CONFIRM FINAL LOCATION WITH END USERS AND TEST WITH BUS. BOTTOM OF

16. HIGH PRESSURE WASHER HOSE REEL MOUNTED AT 5M AFF,

17. ENGINE OIL (EO) AND COOLANT (EC) FILL SPILL BOX (MINIMUM

18. EO AND EC FILL PIPING. THROUGH WALL AT SPILL BOX LEVEL, COMPLETE WITH VENT WHISTLE, MECHANICAL OVERFLOW AND FILL

19. EO AND EC TANKS. COMPLETE WITH REMOTE LEVEL MONITORING, MECHANICAL OVERFILL VALVE, AND OVERFILL SHUTOFF SOLENOID VALVE.

REMOTE LEVEL MONITORING , MECHANICAL OVERFILL VALVE, AND OVERFILL SHUTOFF SOLENOID VALVE. 21. BUS ENGINE EXHAUST EXTRACTION HOSE REEL. MOUNT WITH

22. MONORAIL HOIST, COMPLETE WITH SEPARATE C-TRACK TYPE

23. PROVIDE GALVANIZED SHEET METAL GARAGE AT END OF

ISSUE/REVISION

0 02/19/2025 ISSUED FOR TENDER

C 12/06/2024 ISSUED FOR 66% DESIGN RESUBMISSION B 08/12/2024 ISSUED FOR 66% DESIGN A 03/28/2024 ISSUED FOR SCHEMATIC

PROJECT NUMBER

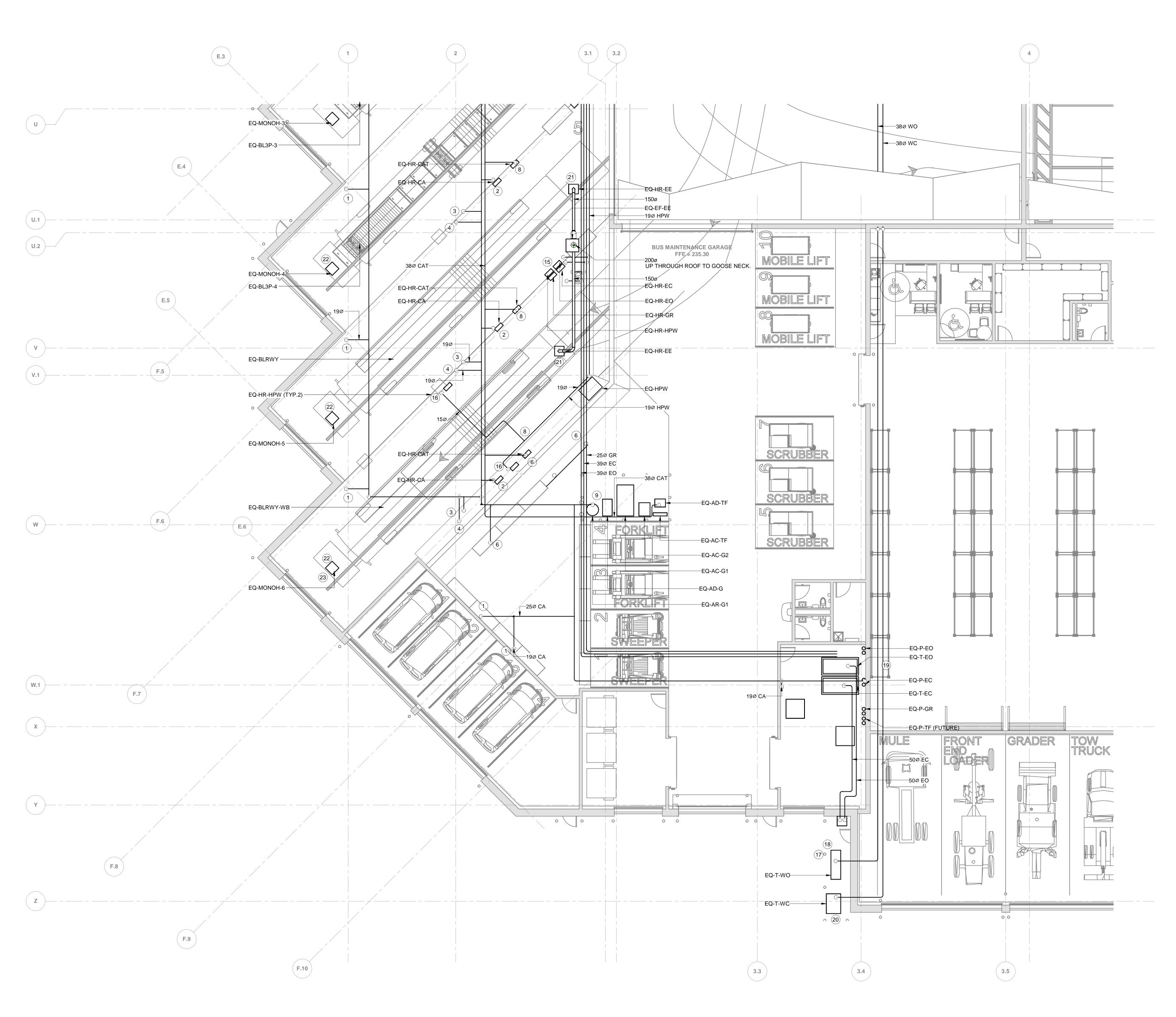
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I/R DATE

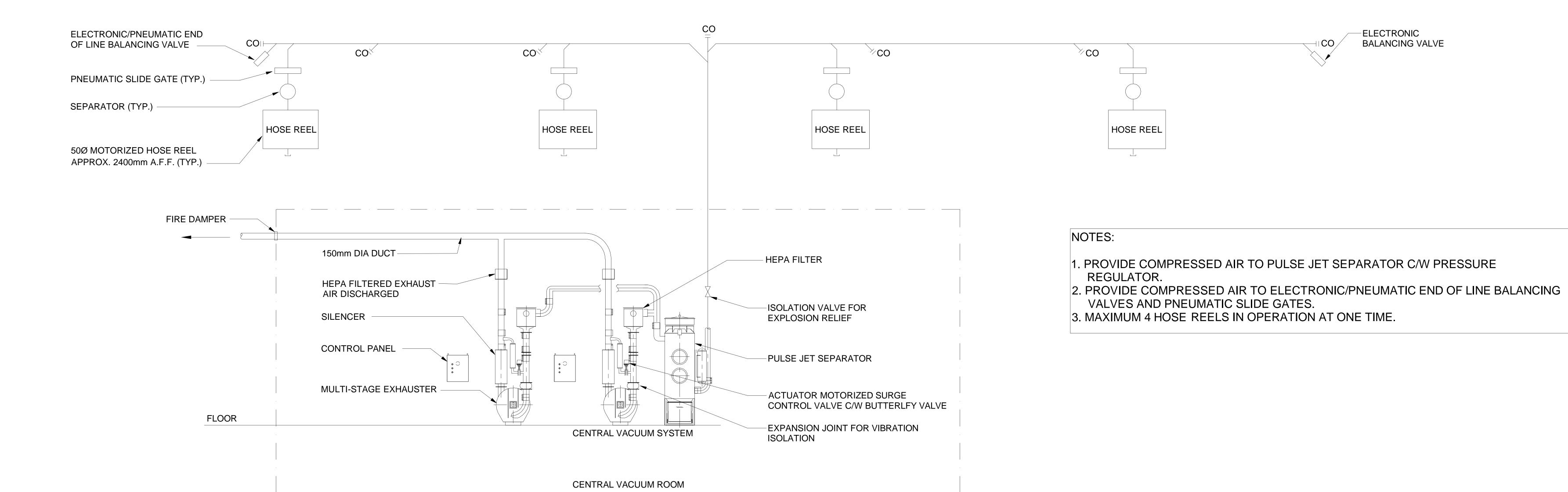
SHEET TITLE COMPRESSED AIR AND SERVCE PIPING ENLARGED PLAN-REPAIR **GARAGE 2 OF 2**

SHEET NUMBER

30-D-102



1 COMPRESSED AIR AND SERVCE PIPING ENLARGED PLAN-REPAIR GARAGE



SERVICE LANES CENTRAL VACUUM SCHEMATIC

50-D-601

PROJECT WINNIPEG NORTH GARAGE **REPLACEMENT** 100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

-ELECTRONIC

BALANCING VALVE

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION

0 02/19/2025 ISSUED FOR TENDER C 12/06/2024 ISSUED FOR 66% DESIGN RESUBMISSION B 08/12/2024 ISSUED FOR 66% DESIGN A 03/28/2024 ISSUED FOR SCHEMATIC

PROJECT NUMBER

I/R DATE DESCRIPTION

SHEET TITLE

CENTRAL VACUUM SCHEMATIC

SHEET NUMBER

50-D-601

PROJECT **WINNIPEG NORTH GARAGE REPLACEMENT** 100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION

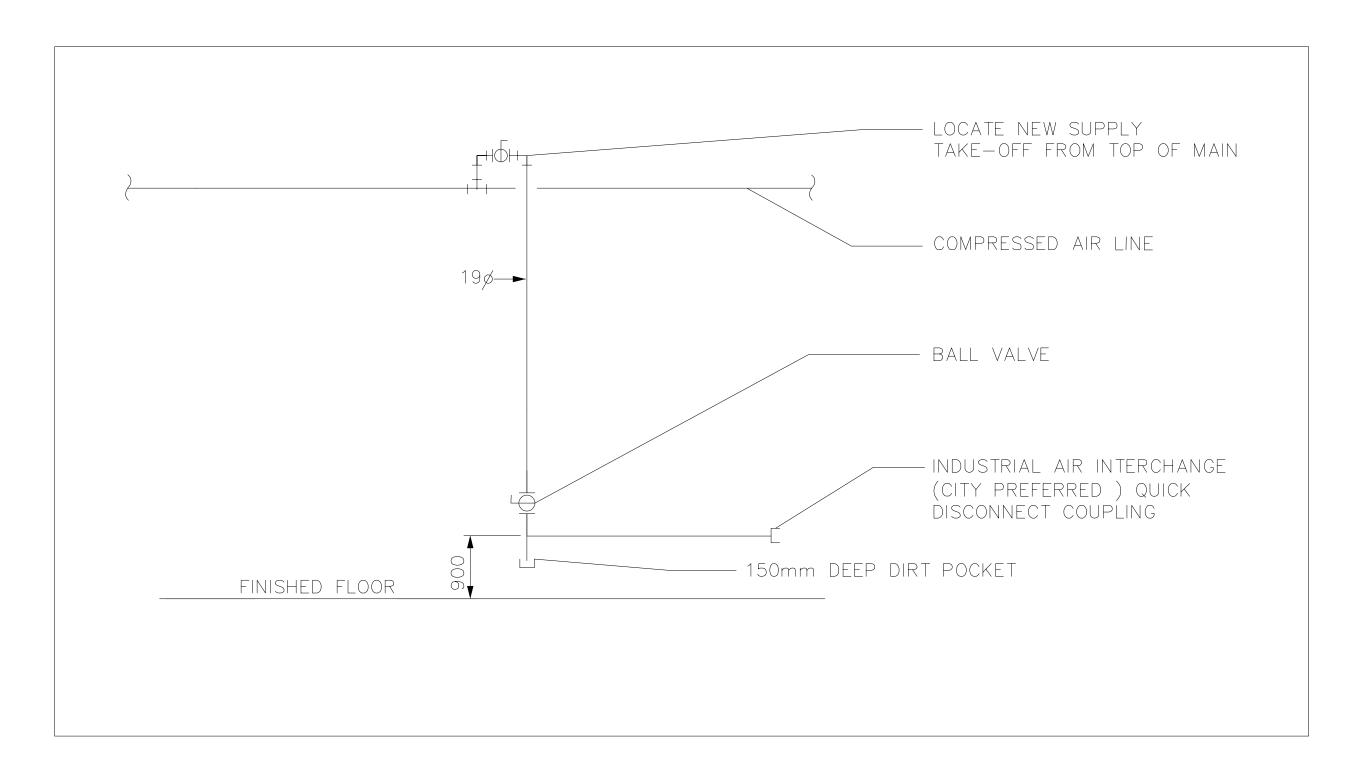
0 02/19/2025 ISSUED FOR TENDER C 12/06/2024 ISSUED FOR 66% DESIGN B 08/12/2024 ISSUED FOR 66% DESIGN A 03/28/2024 ISSUED FOR SCHEMATIC
I/R DATE DESCRIPTION I/R DATE

PROJECT NUMBER

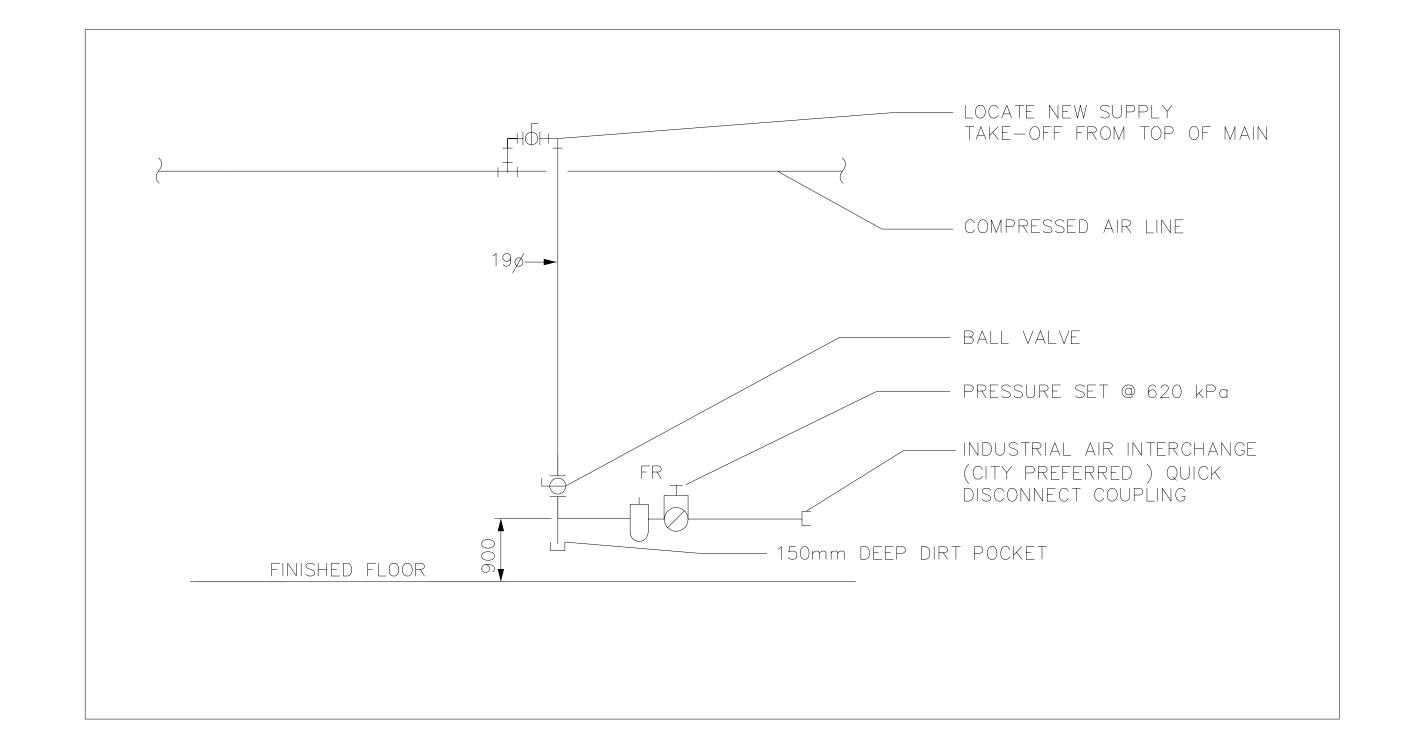
SHEET TITLE COMPRESSED AIR SCHEMATIC-GENERAL SHOP AIR 690 kPA (100 PSIG)

SHEET NUMBER

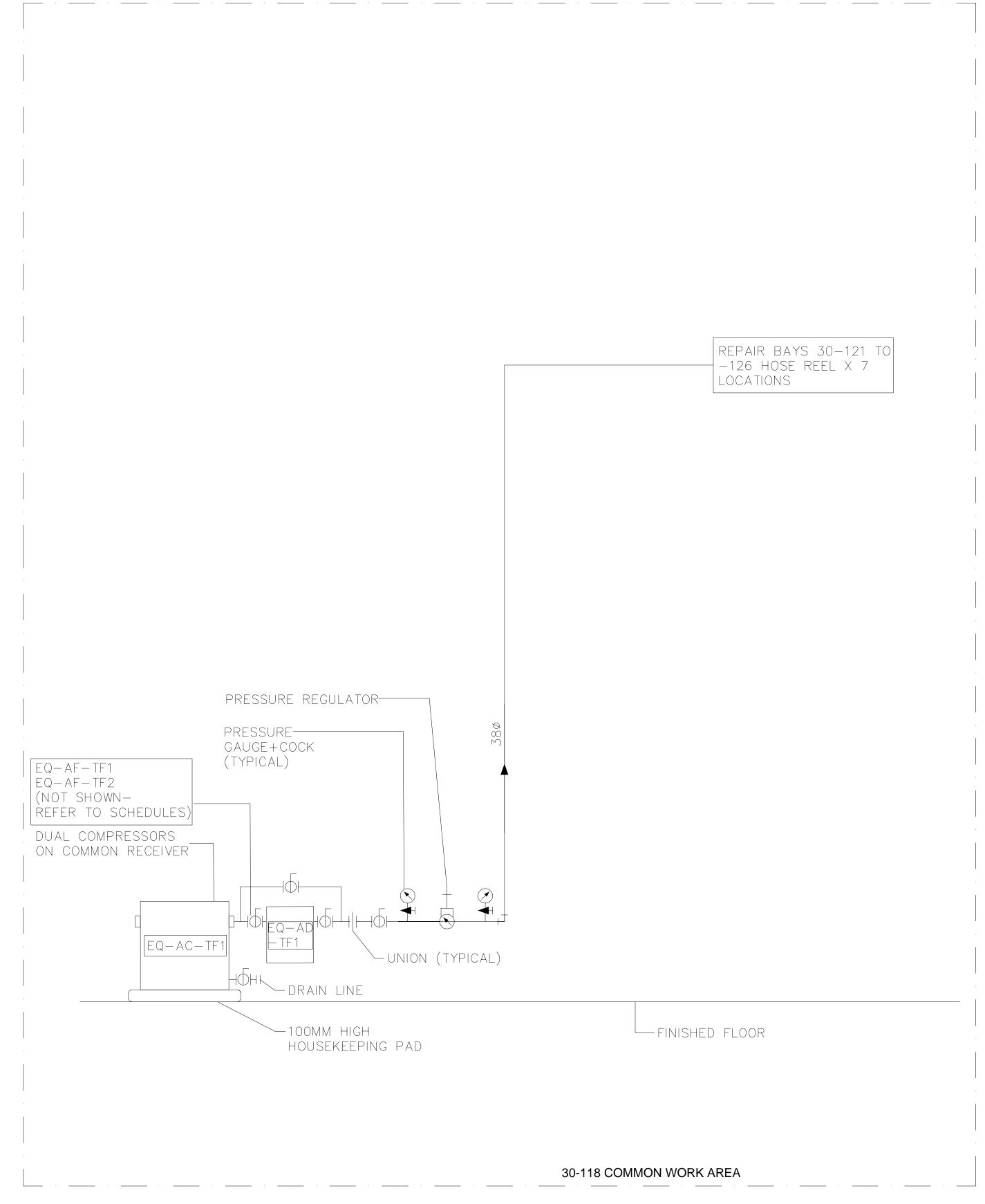
50-D-602



TYPICAL COMPRESSED AIR DROP 50-D-603 NTS



AIR REGULATOR STATION 50-D-603 NTS



3 COMPRESSED AIR SYSTEMS 865 kPa (130 psig) - TIRE FILL SCHEMATIC 50-D-603 NTS

PROJECT WINNIPEG NORTH GARAGE **REPLACEMENT** 100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION

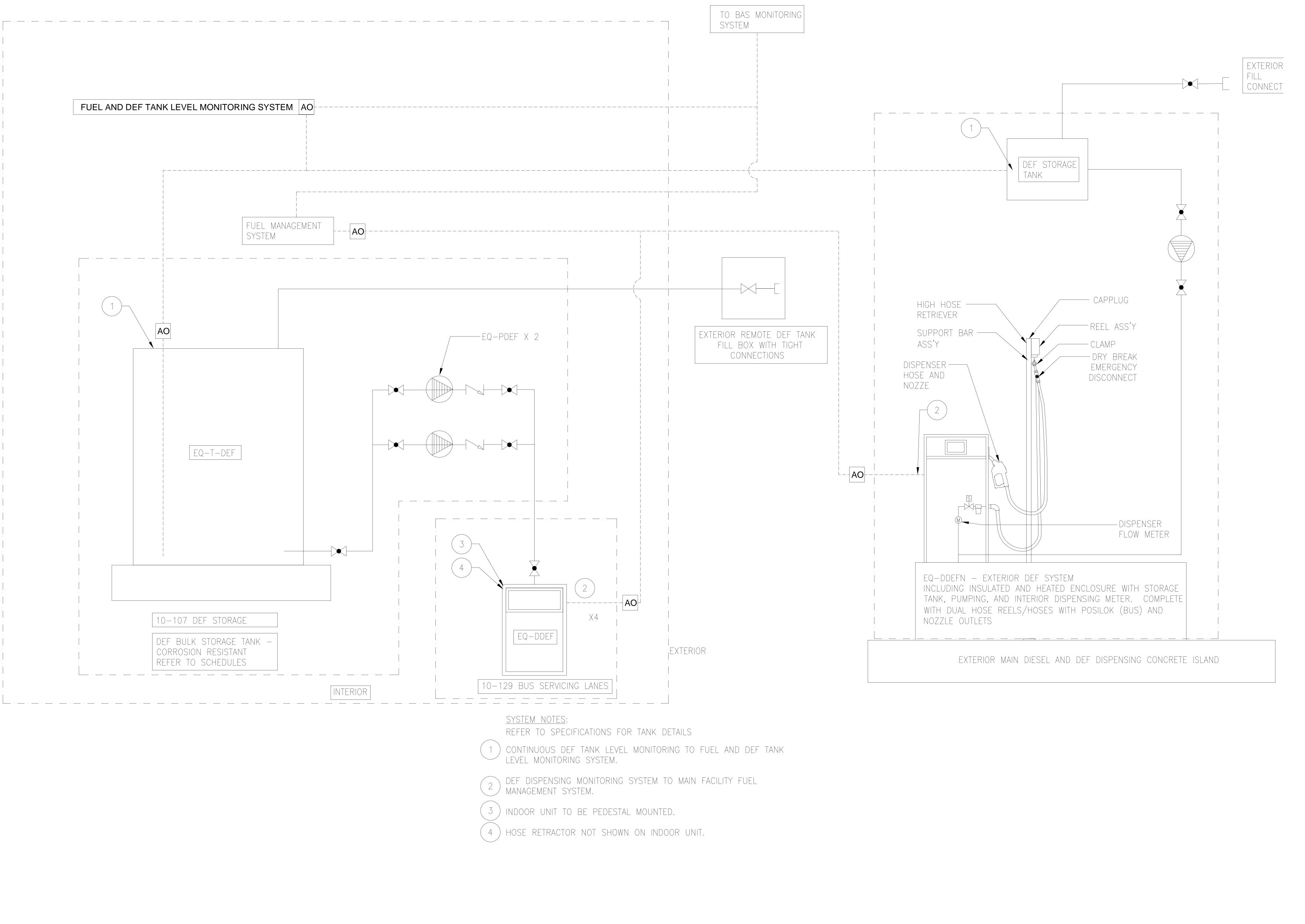
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cli	В	08/12/2024	ISSUED FOR 66% DESIGN
l's	Α	03/28/2024	ISSUED FOR SCHEMATIC
O	I/R	DATE	DESCRIPTION

PROJECT NUMBER

SHEET TITLE COMPRESSED AIR SCHEMATIC-TIRE FILL 895 kPA (130 psig) AND DETAILS

SHEET NUMBER

50-D-603



WINNIPEG NORTH GARAGE **REPLACEMENT** 100 Oak Point Hwy, Winnipeg, MB R2R 1V1



Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION

0 02/19/2025 ISSUED FOR TENDER C 12/06/2024 ISSUED FOR 66% DESIGN B 08/12/2024 ISSUED FOR 66% DESIGN A 03/28/2024 ISSUED FOR SCHEMATIC
I/R DATE DESCRIPTION

PROJECT NUMBER

SHEET TITLE **DEF SCHEMATIC**

SHEET NUMBER

50-D-604

BOX TO BE ANCHORED ONTO AREA CONCRETE PAD. SUBMIT SHOP

DRAWINGS FOR REVIEW.

WINNIPEG NORTH GARAGE **REPLACEMENT** 100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION

0 02/19/2025 ISSUED FOR TENDER C 12/06/2024 ISSUED FOR 66% DESIGN RESUBMISSION B 08/12/2024 ISSUED FOR 66% DESIGN A 03/28/2024 ISSUED FOR SCHEMATIC

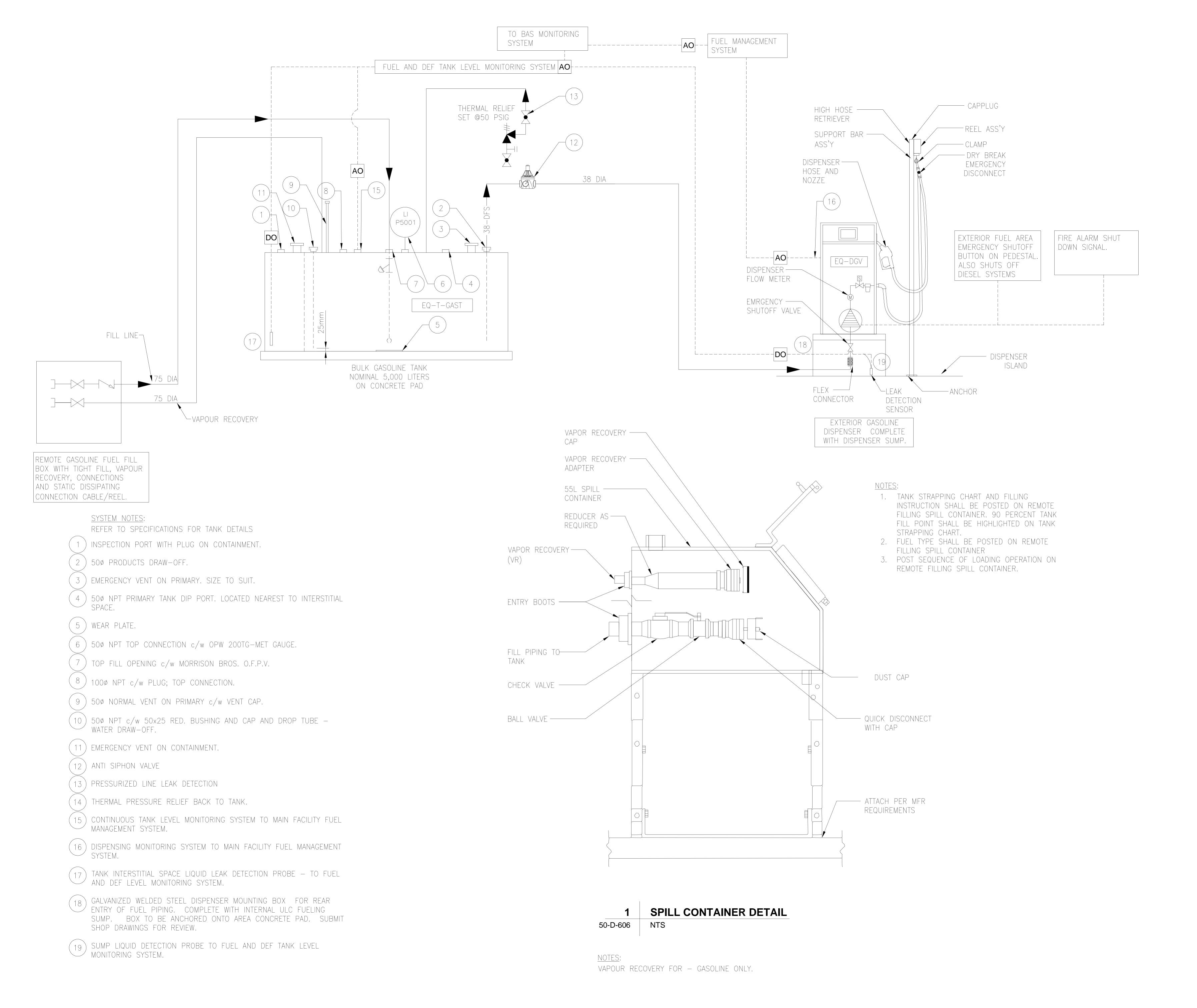
I/R DATE DESCRIPTION

PROJECT NUMBER 60721079

SHEET TITLE DIESEL FUEL SCHEMATIC

SHEET NUMBER

50-D-605



AECOM

PROJECT

WINNIPEG NORTH GARAGE
REPLACEMENT

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



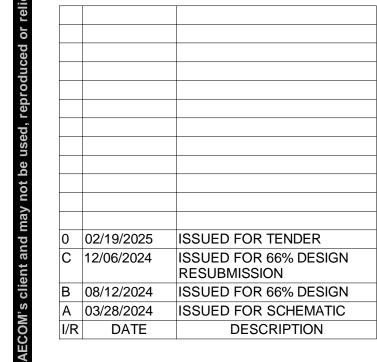
Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION



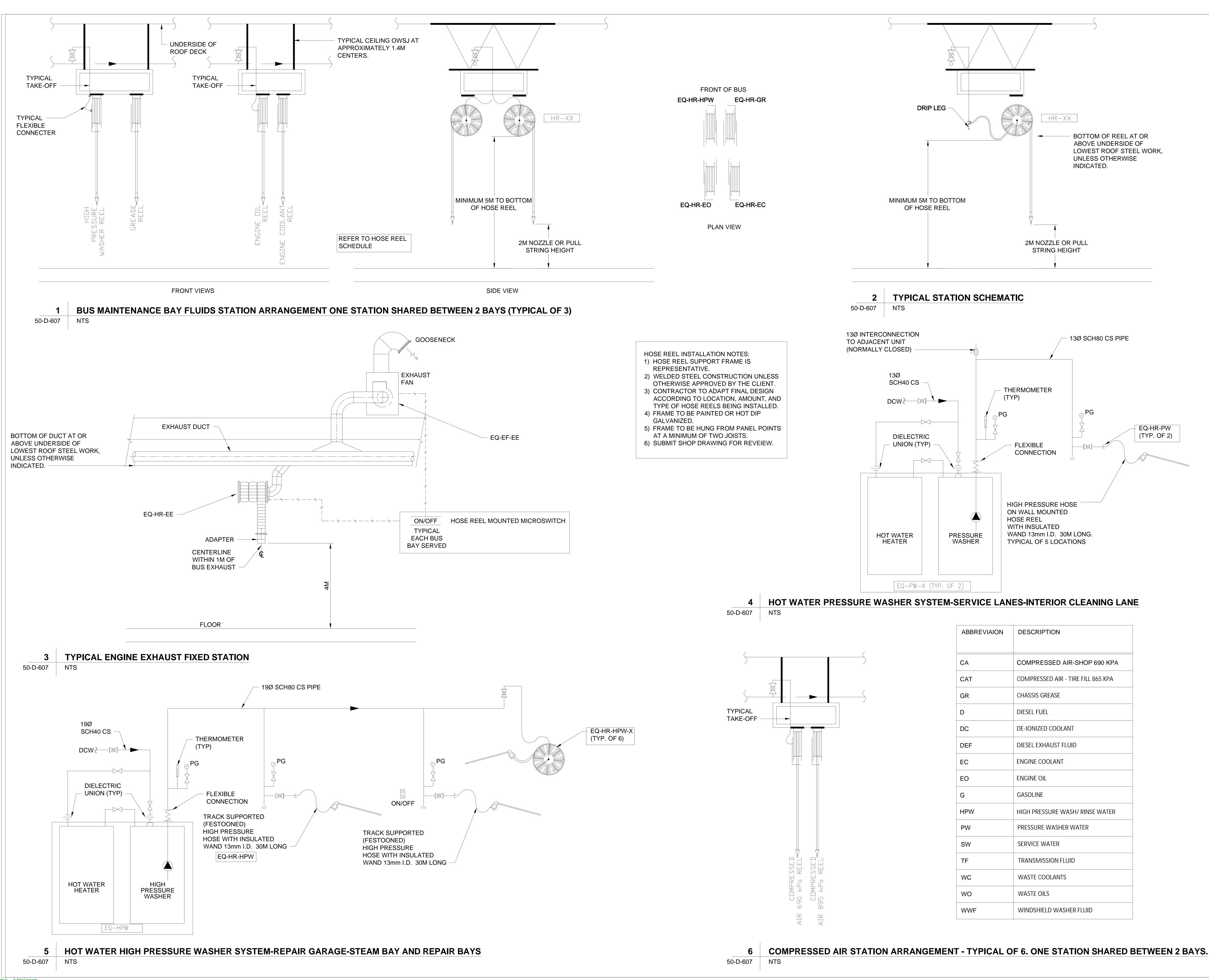
PROJECT NUMBER

SHEET TITLE

GASOLINE SCHEMATIC

SHEET NUMBER

50-D-606



PROJECT WINNIPEG NORTH GARAGE REPLACEMENT 100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

EQ-HR-PW (TYP. OF 2)

ISSUE/REVISION

0	02/19/2025	ISSUED FOR TENDER
С	12/06/2024	ISSUED FOR 66% DESIGN RESUBMISSION
В	08/12/2024	ISSUED FOR 66% DESIGN
Α	03/28/2024	ISSUED FOR SCHEMATIC
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60721079 SHEET TITLE

INDUSTRIAL SCHEMATIC

SHEET NUMBER

50-D-607

AECOM

PROJECT
WINNIPEG NORTH GARAGE
REPLACEMENT
100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION

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С	12/06/2024	ISSUED FOR 66% DESIGN
		RESUBMISSION
В	08/12/2024	ISSUED FOR 66% DESIGN
Α	03/28/2024	ISSUED FOR SCHEMATIC
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60721079

SHEET TITLE

LUBRICATION AND COOLANT
DISTRIBUTION AND COLLECTION
SCHEMATIC

SHEET NUMBER

50-D-608

TO BAS MONITORING SYSTEM FUEL AND DEF TANK LEVEL MONITORING SYSTEM AO EQ-T-WWF EXTERIOR WINDSHIELD WASHER FLUID TANK EXTERIOR - NORTH OF DEF ROOM 10-108 [----] FIRE ALARM SYSTEM SHUT DOWN SIGNAL EMERGENCY FUEL SHUT ___OFF SHUT DOWN SIGNAL PUMP STATUS DEF ROOM 10-108 SERVICE LANES 10-130 1 WINDSHIELD WASHER FLUID SCHEMATIC

AECOM

PROJECT
WINNIPEG NORTH GARAGE
REPLACEMENT
100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT



City of Winnipeg 510 Main St. Winnipeg, MB R3B 1B9 1.877.311.4974



Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

REGISTRATION

ISSUE/REVISION

0 02/19/2025 ISSUED FOR TENDER
C 12/06/2024 ISSUED FOR 66% DESIGN
RESUBMISSION
B 08/12/2024 ISSUED FOR 66% DESIGN
A 03/28/2024 ISSUED FOR 66% DESIGN
A DATE DESCRIPTION

PROJECT NUMBER

60721079

SHEET TITLE
WINDSHIELD WASHER FLUID
SCHEMATIC

SHEET NUMBER

50 D 600

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50-D-609

ITEM	DESCRIPTION, LOCATION OR AREA SERVED	 	 	· -	PI	ERFORMANC	E DATA		 	 MO	TOR	 	ELECTR	RICAL LOAD) 	i
		Amount	MAKE	MODEL	FLOW (LPM)	CAPACITY (L)	PRESSURE (KPA)	HOSE DIA (MM)	HOSE LENGTH (M)	 - HP	kW	kW	Volts	Phase	Amps	
EQ-T-DAST	TANK-DIESEL FUEL STORAGE	3	QUALITY ASSURED MANUFACTURING	50K AST	N/A	50000	N/A	N/A	N/A	 N/A	 N/A	 N/A	N/A	N/A	 N/A	DOUBLE WALL ULC-S601
EQ-T-GAST	TANK - GASOLINE STORAGE	1	QUALITY ASSURED MANUFACTURING	5K AST	N/A	5000	N/A	N/A	N/A	 N/A	 N/A	N/A	N/A	N/A	N/A	DOUBLE WALL ULC-S601
EQ-T-DEF	TANK - DEF - INTERIOR	1	BLUE 1 ENERGY	COMMERCIAL EASY-TANK	N/A	5700	N/A	N/A	N/A	 N/A	N/A	 N/A	N/A	 N/A	N/A	REINFORCED HDPE - VERTICAL CYLINDRICAL TANK.
EQ-DDP	DISPENSER - DIESEL - INTERIOR TO BUS - TIGHT FILL CONNECTION	4	WAYNE	SELECT S1	TBD	N/A	N/A	25	6	 N/A	N/A	N/A	N/A	N/A	N/A	TIGHT FILL TYPE CONNECTION - WHEATON POSILOCK 105. TO CSA B436-M, CSA/ULC 620
EQ-DDV	DISPENSER - DIESEL - EXTERIOR - VARIOUS VEHICLES- NOZZLE AND TIGHT FILL	1	WAYNE	SELECT	TBD	N/A	N/A	25	6	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A	DUAL HOSE; TIGHT FILL - WHEATON POSILOCK 105 AND AUTO-SHUTOFF NOZZLE. INTEGRAL PUMP. TO CSA B436-M, CSA/ULC 620
EQ-DGV	DISPENSER - GASOLINE - EXTERIOR - NOZZLE	1	WAYNE	SELECT	TBD	N/A	N/A	25	6	 N/A	 N/A	N/A	N/A	N/A	N/A	INTEGRAL PUMP IN CABINET DISPENSER. TO CSA B436-M, CSA/ULC 620 WITH INLINE FILTER
EQ-DDEF	DISPENSER - DEF - INTERIOR- DEF TO BUS - NOZZLE TYPE	4	WAYNE	SELECT S1	TBD	N/A	N/A	TBC	6	+ N/A	+ N/A	 N/A	N/A	N/A	 N/A	WITH IN-LINE FILTER
EQ-DDEFN	DISPENSER - DEF - EXTERIOR - NOZZLE TYPE	1	BLUE1 ENERGY	NARROW SIDE DISPENSE SD-PLT-COM-S1	TBD	1800	N/A	TBC	6	0.5	0.38	3.5	575	3	20	INTEGRATED STORAGE AND DISPENSING SYSTEM - EXTERIOR ISLAND MOUNTED. 1850L TANK, 6M DISPENSING HOSE. INTERNAL POWER PANEL ESTIMATED SUPPLY SHOWN.
EQ-PD	PUMP- BUS DIESEL FUELING SYSTEM - PUMP HOUSE	2	ALBANY	FODUP-G-BS-300 SERIES, WITH DUCON -VFD CONTROLLER	300	N/A	345	N/A	N/A	2 X 10	7.5	7.5	575	3	TBC	DUPLEX PUMPS WITH VFDs , OPERATING DUTY/STANDBY AND LEAD/LAG CONTROLLER - WITH FILTRATION - SKID MOUNTED
EQ-FIL-DEF	FILTER - DIESEL FUEL - PUMPHOUSE	2	CIMTEK	VIKING 1F 40187	450	N/A	1,035	N/A	N/A	+ · N/A	+ N/A	 N/A	N/A	N/A	 N/A	DUPLEX ARRANGEMENT. BOTH NORMALLY ON-LINE. PUMP SKID MOUNTED
EQ-PDEF	PUMP - DEF DISPENSING SYSTEM	2	GRACO	QUANTUM i30	90	N/A	310	N/A	N/A	0.5	 0.38 	0.5	120	1 1	12	ELECTRIC DIAPHRAGM PUMP WITH LEAD/LAG CONTROLLER CONTROLLER.
EQ-LQD-LVL	FUEL AND LIQUIDS TANK AND SUMP FUEL MONITORING SYSTEM	1	OPW/TOKENHEIM	PROGAUGE SERIES	N/A	N/A	N/A	N/A	N/A	 N/A	 N/A	N/A	120	1	15	REFER TO SPECIFICATIONS
EQ-FUEL-MGMT	FUEL AND DEF DISPENSING MANAGEMENT SYSTEM	1	OPW	PETROVEND SERIES	N/A	 N/A	N/A	N/A	 N/A	 N/A 	 N/A	 N/A	120	1	15	REFER TO SPECIFICATIONS

						RMANCE	 						 	 	
ITEM	DESCRIPTION, LOCATION OR AREA SERVED				-+		НО	SE	МОТ	OR	-	ELECTRI	CAL LOAD	. _	<u>+</u>
		Amount	MAKE	MODEL	FLOW (LPS)	PRESSUR E (PA)	DIA (MMO	LENGTH (M)	HP	kW	kW	Volts	Phase	Amps	Comments
EQ-EFE	EXHAUST FAN - ENGINE EMISSIONS	3	NEEDERMAN	N29	250/500	1500	N/A	N/A	3	2.2	2.2	+ 575	3	3.2	SHARED FOR 2 BAYS, MINIMUM 2 SPEED, CONTROLLED ACCORDING TO NUMBER OF HOSES DEPLOYED.
EQ-HR-EE	ENGINE EXHAUST HOSE REEL -	6	NEEDERMAN	865	250	N/A	150	7.5	0.4	0.3	0.3	120	1	5	MOTORIZED HOSE REEL. SUITABLE FOF EXHAUST EXTRACTION.

	SCHEDULE - N	MONORAIL HOISTS													
	ITEM	DESCRIPTION, LOCATION OR AREA SERVED	AMOUNT	BEAM CAPACITY (TONNES)	MAKE	MODEL	HMI/ FEM	HOIST CAPACITY (TONNES)	LIFTING SPEED (M / MINUTE)	TROLLEY TRAVEL SPEED (M / MINUTE)	HP (HOIST / TROLLEY)	Kw (HOIST	Volts	Phase	COMMENTS
	EQ-MONOH-1, 5	HOIST AND TROLLEY - CHAIN TYPE REPAIR BAY MONORAILS	6	1	KITO	ER2-M1010 IL - TBC	H3 / 1Am	1	1/4.3	24 / 4	1.2 / 0.5	1.0 / 0.37	575	3	MOTORIZED HOIST AND TROLLEY. SEPARATE C-FESTOON TRACK. RADIO REMOTE CONTROLLED. CONFIRM INTERLOCK REQUIREMENTS WITH ANY FALL PROTECTION SYSTEMS.

ITEM	DESCRIPTION, LOCATION OR AREA SERVED				 		PERFORM	MANCE DATA	MO	TOR	PO	WER	
		Amount	MAKE	MODEL	HOSE DIA (MM)	HOSE LENGTH (M)	FLOW (LPM)	OPERATING PRESSURE (KPA)	 HP	KW	VOLT	PHASE	=
Q-HR-DCW	HOSE REEL - DOMESTIC COLD WATER - WINSHIELD WASH FILL - SERVICE LANES	4	HANNAY	SERIES 700	13	23	N/A	10.3 MPa	N/A	 N/A	N/A	N/A	SPRING RETURN
EQ-HR-EC	HOSE REEL - ENGINE COOLANT	3	HANNAY	SERIES 700	13	15	+N/A	10.3 MPa	N/A	† N/A	N/A	N/A	SPRING RETURN
EQ-HR-EO	HOSE REEL - ENGINE OIL	3	HANNAY	SERIES 700	13	15	+N/A	10.3 MPa	N/A	N/A	N/A	N/A	SPRING RETURN
EQ-HR-GR	HOSE REEL - GREASE	3	HANNAY	SERIES 700	8	23	N/A	51.7 MPa	N/A	N/A	N/A	N/A	SPRING RETURN
EQ-HR-HPW	HOSE REEL - REPAIR GARAGE PRESSURE WASHING	5	HANNAY		13	23	N/A	12.5 Mpa	 N/A	 N/A	N/A	N/A	SPRING RETURN
EQ-HR-PW	HOSE REEL - SERVICE LANES INTERIOR CLEANING PRESSURE WASHER	5	HANNAY	SERIES E1500	10	23	 N/A	 8.2MPa 	0.50	0.38	3 120	+ 1	SPRING RETURN
EQ-HR-TF	HOSE REEL - TRANSMISSION FLUID	3	HANNAY	SERIES 700	13	15	N/A	10.3 MPa	N/A	N/A	N/A	N/A	SPRING RETURN
Q-HR-WWF	HOSE REEL - WINSHIELD WASHER FLUID	4	HANNAY	SERIES 700	13	23	N/A	 10.3 MPa	N/A	N/A	N/A	N/A	SPRING RETURN
EQ-HR-CA	HOSE REEL COMPRESSED AIR - GENERAL SHOP	7	HANNAY	SERIES 700	13	23	 N/A	690	 N/A	 N/A	 N/A	+ N/A	SPRING RETURN
EQ-HR-CAT	HOSE REEL COMPRESSED AIR -	7	HANNAY	SERIES 700	13	23	 N/A	845	 N/A	+ · N/A	+ N/A	 N/A	SPRING RETURN
	-+			-+	+	+	+	+	 	+	+	+	+

ITEM	DESCRIPTION, LOCATION OR AREA SERVED				 PER	FORMANC	F DATA		! ! MO T	TOR.	 FIE	CTRICAL I	OAD	
	-+	A	MAKE	+	FLOW (LPM)		at PRESSURE (KPA)		├ I		+ ·	 Phase	T	
	<u> </u>	Amount	IVIANE	WODEL	(LPIVI)	(LP3)	(KFA)	VOLUME (L)	ПР	KVV	VOILS	rnase	Amps	
EQ-AC-G1	AIR COMPRESSOR - GENERAL SHOP COMPRESSED AIR - VARIABLE SPEED	1	INGERSOLL-RAND	RS30N	5520	92	690	N/A	 40	30.24	575	3	49	WITH XE70 SEQUENCING CONTROLLER
EQ-AC-G2	AIR COMPRESSOR - GENERAL SHOP COMPRESSED AIR - FIXED SPEED	1	INGERSOLL-RAND	RS18i A125	3000	50	690	N/A	 25	18.9	575	3	33	SUITABLE FOR USE WITH XE70 SEQUENCING
EQ-AC-TF1	AIR COMPRESSORS/RECEIVER -	1	INGERSOLL-RAND	2-2475E7.5P	2 X 675	2 x 11.3	865	N/A	2 x 7.5	2 x 5,7	575	3	2 x 9	DUPLEX 7.5HP COMPRESSOR ON COMMON RECEIVER. DATA SHOWN FOR BOTH COMPRESSORS OPERATING. FLA 9 AMPS PECOMPRESSOR.
EQ-AD-G	AIR DRYER - REFRIGERANT TYPE - GENERAL SHOP COMPRESSED AIR	1	INGERSOLL-RAND	NVC-200	5640	94	690	N/A	 N/A 	N/A	575	3	3.1	WITH AUTO-DRAIN
EQ-AD-TF	AIR DRYER - REFRIGERANT TYPE -	1 ¦	INGERSOLL-RAND		 1415	+ 24	845	N/A	+ N/A	N/A	120	+ 1	8.9	WITH AUTO-DRAIN. SIZE FOR BOTH TIRE FIL COMPRESSORS OPERATING AT ONCE.
EQ-AF-G1a	FILTER - GENERAL SHOP COMPRESSED AIR	1	INGERSOLL-RAND	F430NG-NLM-250	7050	118	690	N/A	 N/A	N/A	N/A	N/A	N/A	AUTO-DRAIN
EQ-AF-G1b	FILTER - GENERAL SHOP COMPRESSED AIR	1	INGERSOLL-RAND	FA400-IH	6660	111	690	N/A	 N/A	N/A	N/A	N/A	N/A	AUTO-DRAIN
EQ-AF-TF1a	FILTER - TIRE FILL COMPRESSED AIR -	1	INGERSOLL-RAND	FA75-IG	1270	21	845	N/A	 N/A	N/A	N/A	N/A	N/A	AUTO-DRAIN
EQ-AF-TF1b	FILTER - TIRE FILL COMPRESSED AIR -	1	INGERSOLL-RAND	FA75-IH	1270	21	845	N/A	N/A	N/A	N/A	N/A	N/A	AUTO-DRAIN
EQ-AR-G1	RECEIVER - GENERAL SHOP COMPRESSED AIR - REPAIR GARAGE	1	SAMUEL	V10098	N/A	 N/A	1035	900	 N/A	N/A	N/A	N/A	N/A	MINIMUM 1035kPA RATING, ASME WITH PRESSURE RELIEF VALVE
EQ-AR-G2	RECEIVER - GENERAL SHOP COMPRESSED AIR - SERVICE AREAS	1	SAMUEL	V10098	 N/A		1035	900	+ N/A	N/A	N/A	N/A	 N/A	MINIMUM 1035kPA RATING, ASME WITH PRESSURE RELIEF VALVE

ITEM	DESCRIPTION, LOCATION OR AREA SERVED				PERFORM	ANCE DATA	MO	ΓOR	ELE	CTRICAL L	_OAD	
		Amount	MAKE	MODEL	FLOW (LPM)	PRESSURE (KPA)	HP	kW	Volts	Phase	Amps	
EQ-P-EC	PUMP - ENGINE COOLANT	2	GRACO	+ HUSKY 1050 TBC	189	FREE FLOW	N/A	 N/A	+	+	<u>.</u> 	PNEUMATIC DIAPHRAM PUMP @ 690kPa INPU
EQ-P-EC	PUMP - ENGINE OIL	2	GRACO	Fireball 300 - 5:1	19	2.0 MPa	N/A	N/A	N/A	N/A	 	PNEUMATIC PISTON PUMP @ 690kPa INPUT
EQ-P-GR	PUMP - GREASE DRUMS	2	GRACO	Fireball 425 - 50:1	10:1=1.8 KG/MIN.	24.1 Mpa	N/A	N/A	N/A	N/A	†	PNEUMATIC PISTON PUMP PACKAGE: 10:1 @ 690kPa INPUT, WITH PUMP LIFT SYSTEM.
EQ-P-WWF	PUMP - WINDSHIELD WASHER FLUID	2	GRACO	QUANTUM i30	90	310	0.50	0.37	120	† 1	12	ELECTRICAL DIAPHRAM PUMPS WITH LEAD/L PRESSURE CONTROLLER. RATED FOR FLUID TEMP TO -40C
EQ-P-WC	PUMP - WASTE COOLANT	2	GRACO	HUSKY 1050 TBC	189	FREE FLOW	N/A	N/A	+ N/A	+	 	PNEUMATIC DIAPHRAM PUMP @ 690kPa INPL
EQ-P-WO	PUMP - WASTE OIL		GRACO	HUSKY 1050 TBC	189	FREE FLOW	N/A	N/A	N/A	N/A	 	PNEUMATIC DIAPHRAM PUMP @ 690kPa INP

SCHEDULE - INDUSTRIAL BUS LIFTING SYSTEMS

			 	FLUID CLASSIFICATION	OPERATING ENVIRONMENT	REGISTRATION REQUIREMENTS	<u>S</u> IZ	;=		PIPE				FITTINGS		 	V	ALVES		FLEXIBLE H	IOSE (4)	TEST	<u>[(1) </u>	
+	AREA SERVED		APPLICATION	MANITOBA FIRE CODE APPLIES?	MINIMUM / MAXIMUM OPERATING TEMPERATURES (C	PROVINCIAL REGISTRATION (YES / NO)	DIAMETER (MM)	NPS	SCHEDULE OR WEIGHT	MATERIAL	GRADE	MAXIMUM WORKING PRESSURE AT 65c (Kpa)	JOINT TYPE	CLASS	REFERENCE STANDARD	TYPE	END	ACTUATOR	MINIMUM PRESSURE RATING AT 65C (Kpa)	REFERENCE STANDARD	MINIMUM PRESSURE ATING (KPA) (6)	SYSTEM TEST PRESSURE (KPA)	TEST MEDIUM	СОММЕ
	ERVICE LANES		CENTRAL VACUUM	N/A	10 / 40	NO	50	2	10	SS	304		CLAMP	TBD	TBD F	ROPRIETAR	 	PNEUMATIC	-VE	TBC	TBC	TBC	AIR	
RE	EPAIR BAYS, ERVICE LANES.	TRC	COMPRESSED AIR -	N/A	10 / 40	YES		1/2 TO 2	40	STEEL	ASTM A53	 	THREADED	150	ASTM B16.3	BALL	THREADED	LEVER	1035	SAE 100Rx (4)	1035	950	+ AIR OR WATER	(2),
CL	LEANING LANE	TBC	 PRESSURE WASHER 	N/A	10 / 40	YES	13 TO 25	1/2 TO 1	40	+	ASTM A53	10.4 MPa	THREADED		ASTM B16.3	BALL	THREADED	 LEVER	10.4 MPa	SAE 100Rx (4)	N/A	TBC	++ WATER 	
	EPAIR BAYS	 	HIGH PRESSURE WASHER	N/A	10 / 40	YES		1/2 TO 1	 	STEEL	ASTM A53	' ! !	THREADED		ASTM B16.3		THREADED	 	20.7 Mpa	SAE 100Rx (4)	N/A	TBC	WATER	
	ERVICE LANES		 WINSHIELD WASHER FLUID	YES	10 / 40	N	13 TO 50		40	STEEL	ASTM A53	 	THREADED	150	ASTM B16.3	BALL	THREADED	LEVER	690	SAE 100Rx (4)	N/A	950	WATER	
RE	EPAIR BAYS	TBC	COMPRESSED AIR	N/A	10 / 40	YES	13 TO 50			STEEL	ASTM A53	 865 	THREADED	150	ASTM B16.3	BALL	THREADED	 LEVER	1035	SAE 100Rx (4)	 1035 	950	AIR OR	(2
IS SE	ERVICE LANES	твс	DEF	NO	10 / 40	TBC	13 TO 50	1 TO 2	10	SS304	ASTM A312	 	BUTT WELDED	150	ASTM A403	BALL	FLANGED	LEVER	690	DEF	TBC	TBC	WATER	
EX	XTERIOR - NDERGROUND	ТВС	DIESEL FUEL	YES	-40 / 40	FUEL	75	3	N/A	DOUBLE WALL THERMOPLASTIC - KYNAR PVDF (OPW FLEXWORKS)	CAN ULC S660	510	TO SUIT SYSTEM	N/A	 	N/A	N/A	N/A	510	N/A	N/A	RER RECOMMEND ATIONS	MANUFACT URER RECOMME NDATIONS	(2
EX	XTERIOR	TBC	 DIESEL FUEL 	YES	-40 / 40	FUEL	25 TO 50	1 TO 2	40	STEEL	ASTM A5	 510 	WELDED	150		BALL	FLANGED	N/A ¦	510	N/A	N/A	TBC	TBC	(2
IN.	ITERIOR	TBC	DIESEL FUEL	YES	10 / 40	FUEL	25 TO 75	1 TO 3	40	STEEL	ASTM A53	1	THREADED	150	ASTM B16.3	BALL	FLANGED	LEVER	510	N/A	N/A	TBC	TBC	
EX	XTERIOR	TBC	GASOLINE	YES	-40 / 40	FUEL	25	1 +	40	STEEL	ASTM A5	510	TO SUIT	150	ASTM B16.3	BALL	WELDED	FLANGED	510	N/A	N/A 	TBC	TBC	(2
RE	EPAIR BAYS	TBC	ENGINE OIL	N/A	10 / 40	TBC	20 TO 50	3/4 TO 2		STEEL	ASTM A5	3100	THREADED	300	ASTM B16.3	BALL	THREADED	LEVER	1035	SAE 100Rx (4)	3100	TBC	TBC	(2
RE	EPAIR BAYS	TBC	GREASE	N/A	10 / 40	TBC	20 to 32	!	160	STEEL	ASTM	· 	THREADED	6000	ASME B16.11	BALL	WELDED	LEVER	31 MPa	SAE 100Rx (4)	31 Mpa	TBC	TBC	(
RE	EPAIR BAYS	ТВС	ENGINE COOLANT	N/A	10 / 40	TBC	20 to 50	3/4 to 2	40	STEEL	ASTM A53 or A106 B	3100	THREADED	300	ASTM B16.3	BALL	THREADED	LEVER	1035	SAE 100Rx (4)	3100	TBC	TBC	(2
RE	EPAIR BAYS	ТВС	WASTE OIL	N/A	10 / 40	ТВС	25 TO 50	1 to 2	40	STEEL	ASTM A53 or A106 B	510	THREADED	150	ASTM B16.3	BALL	THREADED	LEVER	1035	SAE 100Rx (4)	510	TBC	TBC	(2)
⊦− ¦RE	 EPAIR BAYS	+ TBC	+ ¦WASTE COOLANT	N/A	10 / 40	TBC	25 TO 50	+	40	+ STEEL		├ ├ 510	THREADED	 150	+	BALL	├ ├ THREADED	+ LEVER ¦	1035	SAE 100Rx (4)	 510	TBC	++ TBC	

ITEM	DESCRIPTION, LOCATION OR AREA SERVED	 		+ 		
		Amount	MAKE	MODEL	CAPACITY (L)	Comments
EQ-T-EC	TANK - ENGINE COOLANT	1	FOREMOST	RECTANGULAR	2500	DOUBLE WALL ULC-S602
EQ-T-EO	TANK - ENGINE OIL	1	FOREMOST	RECTANGULAR	2500	DOUBLE WALL ULC-S602
EQ-T-WWF	TANK - WINDSHIELD WASHER FLUID EXTERIOR	1	QUALITY ASSURED MANUFACTURING	HORIZONTAL CYLINDRICAL	5000	DOUBLE WALL ULC-S601
EQ-T-WC	TANK - WASTE COOLANT - EXTERIOR	1	FOREMOST	HORIZONTAL CYLINDRICAL	2000	DOUBLE WALL ULC-S652. 2HR FIRE RATED TAI IF INSTALLED LESS THAN 3M FROM WALL OPENING.
EQ-T-WO	TANK - WASTE OIL - EXTERIOR	1	FOREMOST	HORIZONTAL CYLINDRICAL	1360	DOUBLE WALL ULC-S652. 2HR FIRE RATED TAI IF INSTALLED LESS THAN 3M FROM WALL OPENING.

EQ-BLRWY-WB BUS LIFT - RUNWAY TYPE - REPAIR (WASH) BAY#6 1 STERTL-KONI SKYLIFT 250-78 34,100 3 X 5 3 X 4 575 3 25 FOR WET LOCATION, INCLUDING GALVANIZED FINISH. WITH FRONT WHEEL PIVOT PADS BUS LIFT - RUNWAY TYPE - REPAIR BAY #5 1 STERTL-KONI SKYLIFT 250-78 34,100 18.7 14 575 3 18 WITH FRONT WHEEL PIVOT PADS

(1) PRIOR TO TESTING, ISOLATE ALL EQUIPMENT NOT RATED FOR TEST PRESSURE LISTED.

(2) ALL PIPING, MATERIAL AND INSTALLATION WORK IS SUBJECT TO PROVINCE OF MANITOBA INSPECTION AND APPROVAL. REFER TO SPECIFICATION SECTION.

(3) LIST DESIGN / REGISTRATION NUMBER AS PART OF AS-BUILT INFORMATION.

(4) TO THE REQUIREMENTS OF THE ASSOCIATION FOR RUBBER PRODUCTS MANUFACTURERS (ARPM/RMA) INDUSTRIAL COMPRESSED AIR HOSE, RMA

CLASS A OIL RESISTANCE, AND THE SPECIFICATIONS. (5) GASOLINE VEHICLES THUS WASTE OIL SUBJECT TO RECLASSIFICATION AS COMBUSTIBLE/FLAMMABLE **PROJECT**

WINNIPEG NORTH GARAGE

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

REPLACEMENT

CLIENT



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Winnipeg Transit B-414 Osborne St. Winnipeg, MB R3L 2A1

CONSULTANT

AECOM CANADA ULC 99 Commerce Dr, Winnipeg, MB R3P 0Y7

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