
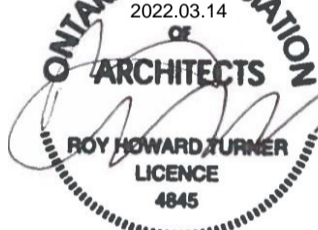


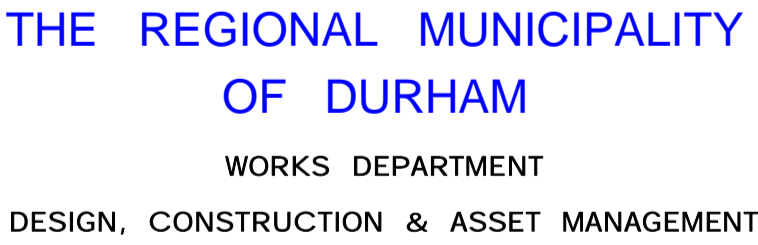


| SHEET LIST | | | | |
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| No. | NAME | REV. NO. | CURRENT REVISION | DATE |
| STRUCTURAL - PHASE 1 | | | | |
| S-100 | GENERAL NOTES AND LOADING - SHEET 1 OF 2 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-101 | GENERAL NOTES AND LOADING - SHEET 2 OF 2 | 3 | ADDENDUM #1 | 10/18/21 |
| S-102 | DETAILS SHEET 1 OF 7 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-103 | DETAILS SHEET 2 OF 7 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-104 | DETAILS SHEET 3 OF 7 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-105 | DETAILS SHEET 4 OF 7 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-106 | DETAILS SHEET 5 OF 7 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-107 | DETAILS SHEET 6 OF 7 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-108 | DETAILS SHEET 7 OF 7 | 3 | ADDENDUM #3 | 12/09/21 |
| S-200 | FOUNDATION PLAN | 3 | ADDENDUM #3 | 12/09/21 |
| S-201 | FLOOR SLAB PLAN | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-202 | MASONRY LINTEL PLAN | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-203 | ROOF FRAMING PLAN - OFFICE | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-204 | ROOF FRAMING PLAN - VEHICLE BAY | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-401 | FRAMING ELEVATIONS | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-500 | SECTIONS SHEET 1 OF 6 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-501 | SECTIONS SHEET 2 OF 6 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-502 | SECTIONS SHEET 3 OF 6 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-503 | SECTIONS SHEET 4 OF 6 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-504 | SECTIONS SHEET 5 OF 6 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| S-505 | SECTIONS SHEET 6 OF 6 | 2 | RESPONSE TO CITY COMMENTS | 10/18/21 |
| MECHANICAL | | | | |
| M-000 | MECHANICAL LEGENDS AND DRAWING LIST | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-001 | MECHANICAL SITE PLAN | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-100 | UNDERSLAB PLAN - DRAINAGE | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-101 | FLOOR PLAN - DRAINAGE | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-200 | FLOOR PLAN - PLUMBING & FIRE PROTECTION | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-300 | FIRST FLOOR PLAN - HVAC | 3 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-301 | FLOOR PLAN - HYDRONIC HEATING & COOLING | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-400 | ROOF PLAN - MECHANICAL | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-500 | MECHANICAL ROOM ENLARGED PLAN-1 | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-501 | MECHANICAL ROOM ENLARGED PLAN-2 | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-502 | WASHROOM ENLARGED PLAN | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-503 | MECHANICAL ENLARGED SECTION | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-504 | MECHANICAL ISOMETRIC VIEWS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-505 | MECHANICAL ISOMETRIC VIEWS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-600 | MECHANICAL SCHEMATICS I | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-601 | MECHANICAL SCHEMATICS II | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-602 | MECHANICAL SCHEMATICS III | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-700 | MECHANICAL SCHEDULES | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-701 | MECHANICAL SCHEDULES | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-702 | MECHANICAL SCHEDULES | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-703 | MECHANICAL SCHEDULES | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-704 | MECHANICAL SCHEDULES | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-800 | MECHANICAL STANDARD DETAILS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-801 | MECHANICAL STANDARD DETAILS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-802 | MECHANICAL STANDARD DETAILS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-803 | MECHANICAL STANDARD DETAILS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-804 | MECHANICAL STANDARD DETAILS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |
| M-805 | MECHANICAL STANDARD DETAILS | 2 | ISSUED FOR CONSTRUCTION | 03/14/22 |

| SHEET LIST | | | | |
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| No. | NAME | REV. NO. | CURRENT REVISION | DATE |
| ELECTRICAL - PHASE 1 | | | | |
| E-001 | ELECTRICAL LEGEND AND GENERAL NOTES 1 OF 2 | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-002 | ELECTRICAL LEGEND AND GENERAL NOTES 2 OF 2 | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-101 | SITE LIGHTING PLAN | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-102 | SITE POWER PLAN | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-103 | ENLARGE SITE POWER PLAN | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-104 | ENLARGED SITE DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-105 | ELECTRICAL SITE DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-106 | ELECTRICAL SITE DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-107 | ELECTRICAL SITE DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-108 | ELECTRICAL SITE DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-201 | OVERALL LIGHTING PLAN | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-202 | ENLARGED PARTIAL LIGHTING PLAN SHEET 1 OF 2 | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-203 | ENLARGED PARTIAL LIGHTING PLAN SHEET 2 OF 2 | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-301 | POWER PLAN | 4 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-302 | MECHANICAL POWER PLAN | 4 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-303 | ROOF POWER PLAN | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-304 | ENLARGED PLANS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-401 | SECURITY AND SYSTEMS PLAN | 4 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-501 | FIRE ALARM PLAN | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-502 | FIRE ALARM ZONE PLAN, RISER DIAGRAM AND DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-601 | SINGLE LINE DIAGRAM | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-602 | ELECTRICAL DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-603 | ELECTRICAL DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-604 | ELECTRICAL DETAILS | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-701 | ELECTRICAL SCHEDULES | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-702 | ELECTRICAL SCHEDULES | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-703 | ELECTRICAL PHASE 1 & 2 SCHEDULES | 4 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| E-704 | ELECTRICAL PHASE 1 & 2 SCHEDULES | 3 | ISSUED FOR CONSTRUCTION | 03/14/2022 |
| Grand total: 131 | | | | |

KEY PLAN

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| <p>PRIME CONSULTANT</p>  <p>AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p> |  |
| <p>SUB CONSULTANT</p> | |

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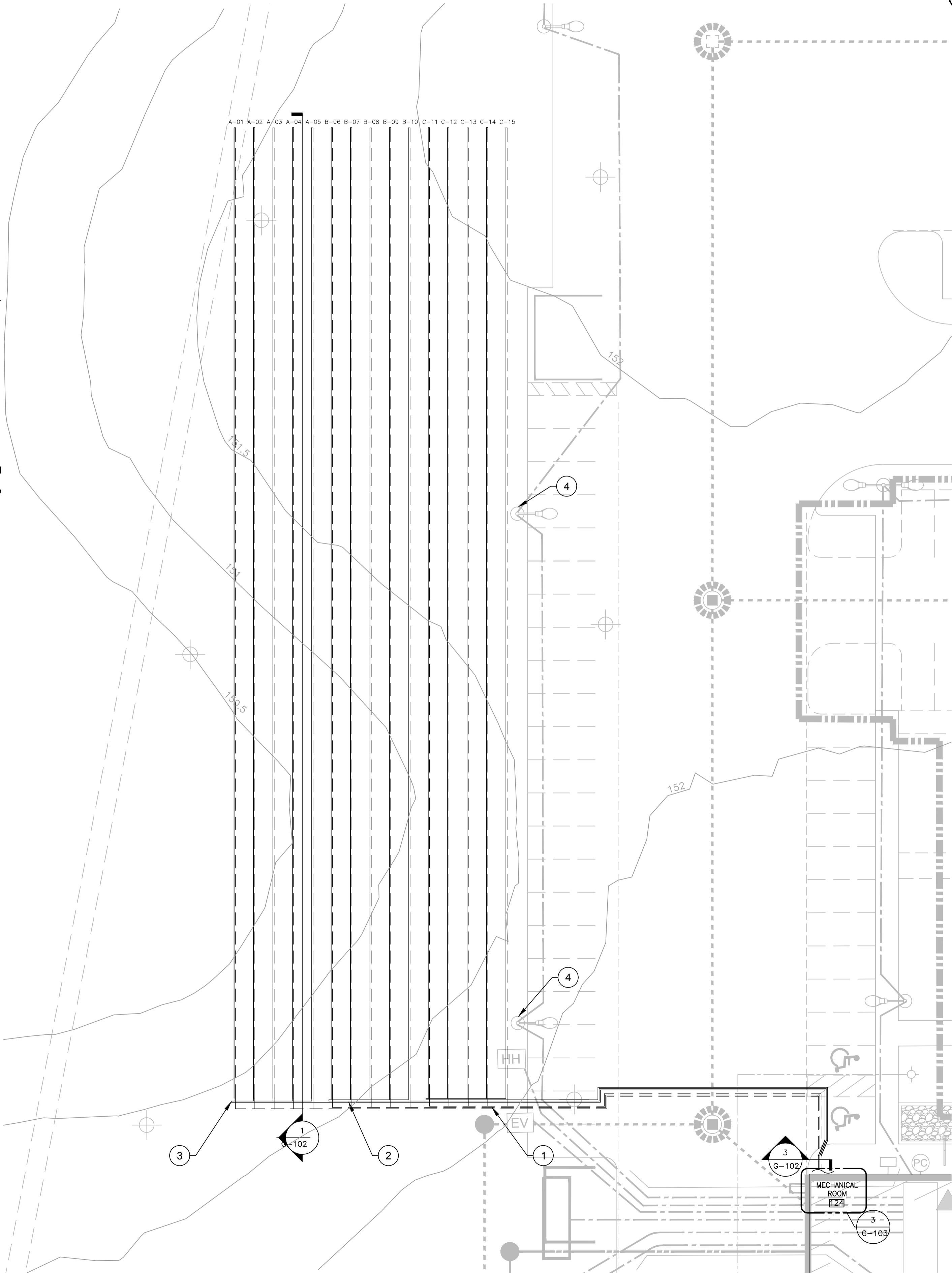
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 000 | SHEET NO. |

GENERAL NOTES:

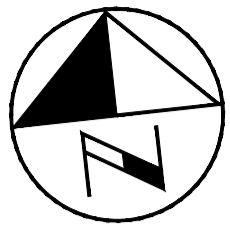
- EARTH ENERGY SYSTEM HAS BEEN DESIGN AS PER CSA STANDARD C448-13. CONTRACTOR SHALL TAKE CARE TO ENSURE ALL INSTALLATION PROCEDURES CONFORM WITH THIS STANDARD.
- THE GROUND HEAT EXCHANGER (GHX) CONSISTS OF 30 HORIZONTALLY DRILLED BOREHOLES AND 15 CIRCUITS. EACH BOREHOLE TO BE 76.2m [250'] IN LENGTH AND CIRCUIT TO BE 152.4m [500'] IN LENGTH AND HAVE FOUR PASSES, WITH 32mm [1.25"] HDPE SDR11 PE4710 PIPE FOR A TOTAL OF 4,572m [15,000'] OF PIPING. CIRCUITS ARE CONNECTED BY THREE PAIRS OF 75mm [3"] Ø HDPE SDR11 RUNOUT PIPES, WITH 5 CIRCUITS PER RUNOUT PIPE, AND MAINTAIN A MINIMUM OF 1.5m [5'] ON CENTRE SPACING, UNLESS OTHERWISE NOTED. ADJACENT BOREHOLES ARE TO BE DRILLED TO ALTERNATING DEPTHS AT 144.5m [474.1'] OBV. AND 141.45m [464.1'] OBV. RESPECTIVELY AND COMBINED TO MAKE EACH CIRCUIT.
- BOREHOLE LABELING SCHEME IS: RUNOUT LETTER – CIRCUIT #.
- AVOID SHARP BENDS IN PIPING. MINIMUM BEND RADIUS IS 25 TIMES THE OUTER DIAMETER FOR ANY PIPE CURVATURE. USE ELBOWS FOR ALL SMALLER RADII.
- ALL TRENCHES AND PIPING TO BE A MINIMUM OF 1.5m [5'] FROM PROPERTY LINES AND BUILDING STRUCTURES.
- NO PETROLEUM BASED PRODUCTS ARE TO BE IN CONTACT WITH HDPE PIPE.
- ALL PIPES AND FITTINGS ARE TO BE PE 4710 RESIN.
- SOCKET FUSION (NOT GREATER THAN 51mm (2")), BUTT FUSION, OR ELECTROFUSION, AS PER MANUFACTURERS INSTRUCTIONS, ARE THE ONLY ACCEPTABLE METHODS OF JOINING HDPE PIPE.
- FUSIONS ARE TO BE PERFORMED BY ACCREDITED FUSION INSTALLERS.
- ALL INDIVIDUAL CIRCUITS TO BE CAPPED WITH PERMANENT PLUGS IMMEDIATELY AFTER INSTALL TO PREVENT DEBRIS FROM ENTERING.
- BEFORE BACKFILL ALL PIPING MUST BE PRESSURE TESTED TO 690 kPa [100 psig] FOR 48 HOURS. PRESSURE TESTING START AND FINISH PRESSURES AND TIMES TO BE WITNESSED BY CONSULTANT OR DESIGNATED REPRESENTATIVE.
- A FIELD INSPECTION OF THE GHX MUST BE PERFORMED BY THE CONSULTANT PRIOR TO BACKFILL.
- A METALLIC TRACER WIRE, CAPABLE OF BEING FOUND BY CONVENTIONAL TRACING EQUIPMENT MUST BE INSTALLED WITH ALL RUNOUT PIPING, HEADERS AND OUTSIDE CIRCUITS. WARNING TAPE TO BE BURIED 460mm [1.5'] ABOVE ALL TRENCHED PIPE.
- ALL TRENCHES TO BE BACKFILLED USING EXCAVATED SPOILS OR OTHER NATIVE SOIL IF SUITABLE FOR BACKFILL.
- CONTRACTOR RESPONSIBLE FOR ON-SITE CLEANLINESS, AND DISPOSING OF ANY EXCESS WATER.
- CONTRACTOR SHALL CARRY AN ENVIRONMENTAL COMPLIANCE APPROVAL (ECA) RELATING TO THE CONSTRUCTION OF A CLOSED LOOP GROUND SOURCE HEAT EXCHANGER AS DEFINED IN THE O.REG. 98/12 MADE UNDER THE ENVIRONMENTAL PROTECTION ACT. (EPA). CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATED TO MAINTAINING THE WORK PLAN, INCLUDING DELAYS OF UP TO 24 HOURS DUE TO VENTING OF ANY NATURAL GAS FOUND ON-SITE DURING DRILLING.
- INSTALLATION OF GHX SYSTEM SHALL BE COORDINATED WITH SERVICES ON-SITE. SERVICES SHOWN ON DRAWING ARE FOR GENERAL LOCATION PURPOSES AND EXACT LOCATIONS OF SERVICES ARE TO BE DETERMINED ON-SITE. PROVIDE A MINIMUM OF 305mm [1'] SEPARATION FROM GHX RUNOUTS AND ALL OTHER SERVICES ON-SITE.
- A MINIMUM FLOW RATE OF 2.5 L/S [40 USGPM] AT 99 KPA [33 FT OF HEAD] FOR EACH 75mm [3"] Ø RUNOUT IS REQUIRED FOR OPERATION.
- A MINIMUM FLOW RATE OF 3.3 L/S [53 USGPM] AT 114 KPA [38 FT OF HEAD] FOR EACH 75mm [3"] Ø RUNOUT IS REQUIRED FOR FLUSHING AND PURGING OF THE HORIZONTAL GHX BEFORE COMMISSIONING.
- IT IS ESTIMATED THAT BOTH THE NORTH GHX AND EAST GHX WILL HAVE A TOTAL VOLUME OF 6,814 L (1,800 US GALLONS) OF FLUID. VOLUME CALCULATION IS INTENDED AS A GUIDE ONLY. CONTRACTOR IS RESPONSIBLE TO ADD ADDITIONAL FLUID AS REQUIRED TO MAINTAIN SYSTEM PRESSURE AFTER STARTUP AND THROUGHOUT WARRANTY PERIOD, INCLUDING COMPLIANCE WITH ALL SPECIFIED FLUID PARAMETERS.
- HEAT TRANSFER FLUID TO BE USED IS 25% BY VOLUME PROPYLENE GLYCOL, PREMIXED WITH SUITABLE CORROSION INHIBITORS BY MANUFACTURER. MIXTURE TO HAVE A FREEZE PROTECTION TO -10°C [14°F].

DRAWING NOTES:

- FINAL GRADE IS ESTIMATED AT 152.0m MAINTAIN MINIMUM DEPTH OF GHX RUNOUT PIPES. CONFIRM FINAL GRADE ON-SITE.
- FINAL GRADE IS ESTIMATED AT 151.5m MAINTAIN MINIMUM DEPTH OF GHX RUNOUT PIPES. CONFIRM FINAL GRADE ON-SITE.
- FINAL GRADE IS ESTIMATED AT 151.0m MAINTAIN MINIMUM DEPTH OF GHX RUNOUT PIPES. CONFIRM FINAL GRADE ON-SITE.
- HORIZONTAL DRILLED BOREHOLE CIRCUIT PIPE TO BE A MINIMUM 3m BELOW FINISH GRADE AT THIS LOCATION. COORDINATE AS-BUILT ELEVATION WITH ELECTRICAL TO ENSURE THAT THE BOTTOM OF THE LIGHT POLE FOOTING IS TO BE INSTALLED A MINIMUM OF 500 MM ABOVE THE TOP OF HORIZONTAL BOREHOLE CIRCUIT PIPE.



NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.



ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

KEY PLAN

| CONSULTANT REVISIONS | | | | |
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| 4 | 21-06-15 | GFR | Issued for 100% | |
| 3 | 21-03-31 | GFR | 90% SUBMISSION | |
| 2 | 20-12-24 | GFR | 60% SUBMISSION | |
| 1 | 20-11-26 | GFR | 30% SUBMISSION | |
| NO. | DATE | NAME | REVISIONS | |

PRIME CONSULTANT

SUB-CONSULTANT

GEO-XERGY
SYSTEMS
8915156 Canada Inc.
Unit M – 675 Berry Street
Winnipeg MB, Canada R3H 1A7
Tel: 204 255 5959
www.geoxergy.com

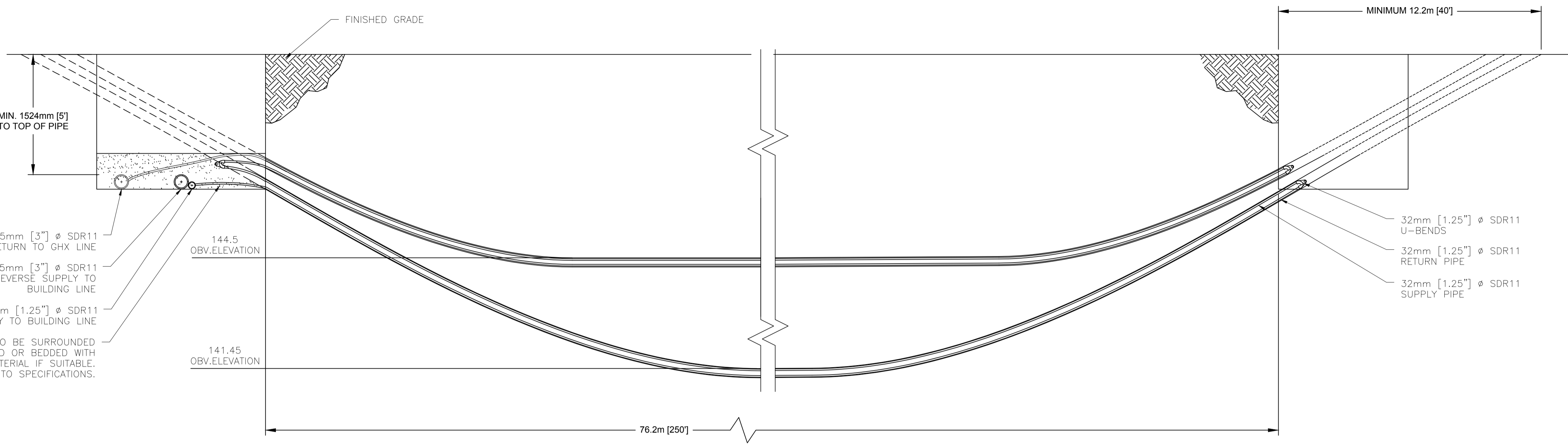
PROFESSIONAL ENGINEER
S.M.R. ALMEIDA
100161229
PROVINCE OF ONTARIO

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| DESIGN BY: GFR | SCALE 1:200 |
| DRAWN BY: AT | DATE: 2020-11-25 |
| CHECKED BY: — | CONSULTANT PROJECT NO. 20031 |
| APPROVED BY: — | |

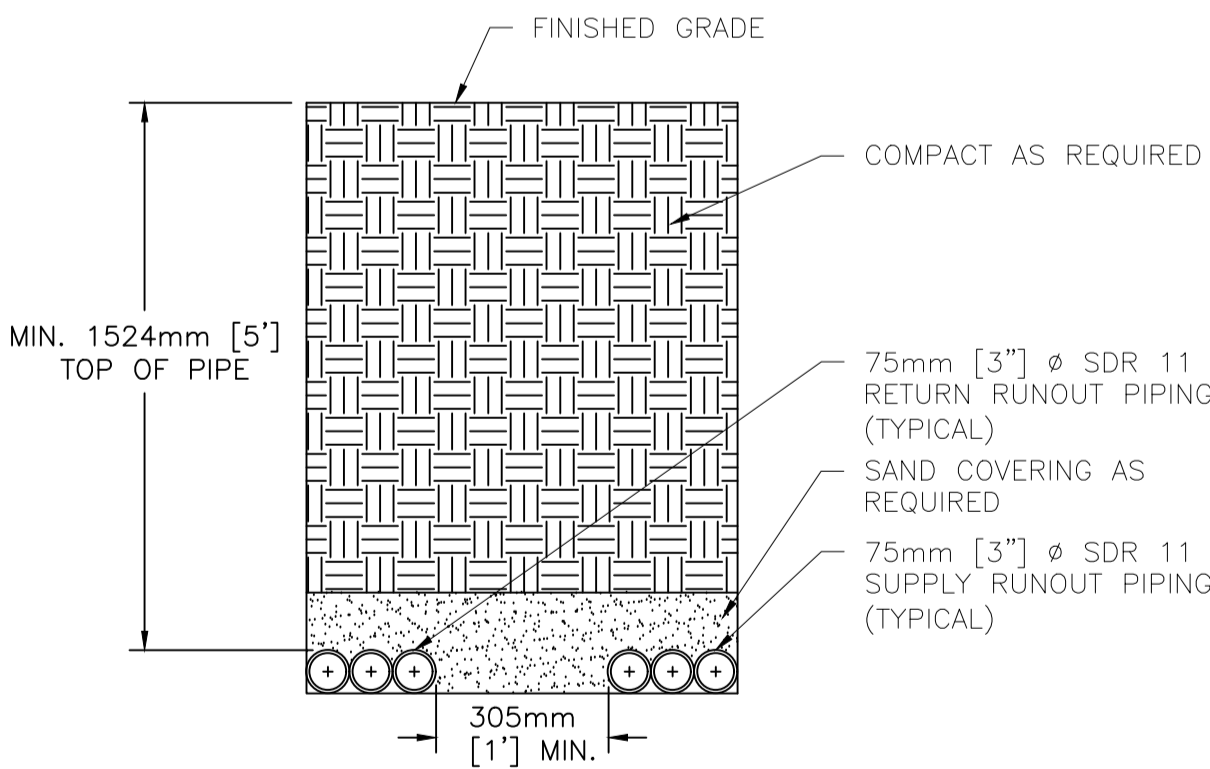
| CONTRACT REVISIONS | | | | |
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| NO. | DATE | NAME | REVISIONS | |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

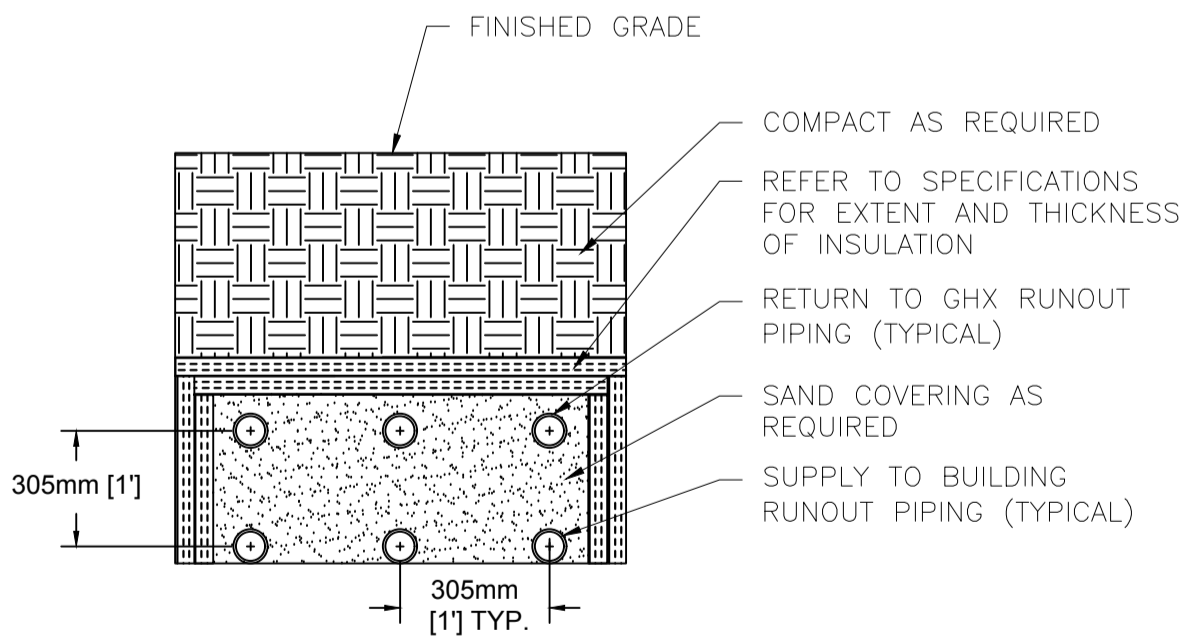
| SEATON EMS | | |
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| GROUND HEAT EXCHANGER LAYOUT | | |
| PROPERTY NO. XXX-X-XXX | FACILITY CODE XXX-XXX-XXXX | FACILITIES PROJECT NO. XXXX-XX-XX |
| CONTRACT NO. T-XXXX-20XX | DRAWING NO. G-101 | SHEET NO. 1 OF 3 |



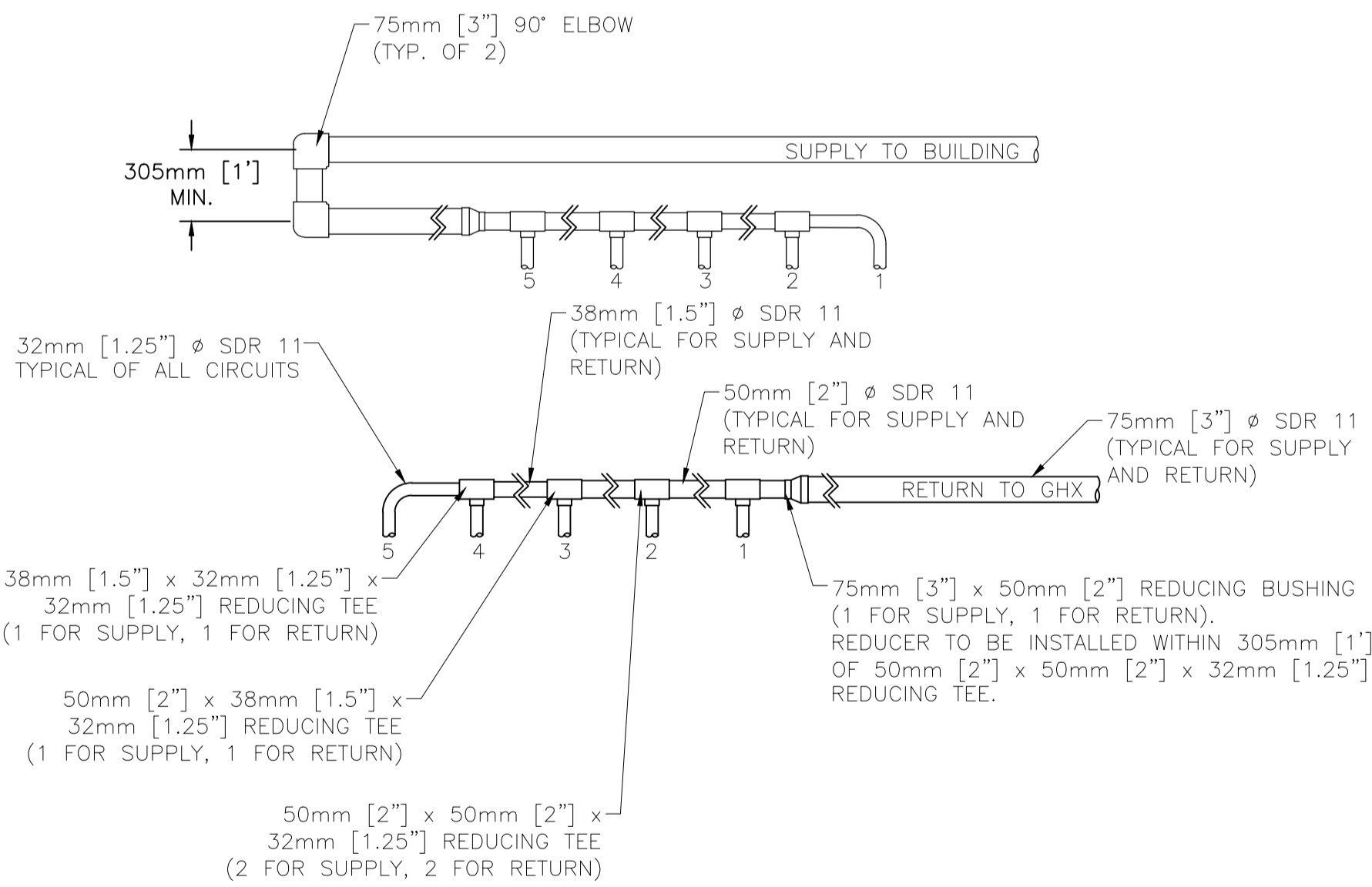
1 GHX CROSS-SECTION DETAIL
Scale: NTS



2 GHX TRENCH DETAIL (TYPICAL)
Scale: NTS



3 SHALLOW TRENCH DETAIL
Scale: NTS



NOTE: USE ONLY TEES AND SADDLES, NO SIDEWALL FUSIONS.

4 GHX HEADER DETAIL (TYPICAL)
Scale: NTS

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

KEY PLAN

| CONSULTANT REVISIONS | NO. | DATE | NAME | REVISIONS |
|----------------------|-----|----------|------|-----------------|
| | 3 | 21-06-15 | GFR | Issued for 100% |
| | 2 | 21-03-31 | GFR | 90% SUBMISSION |
| | 1 | 20-12-24 | GFR | 60% SUBMISSION |
| | | | | |

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| PRIME CONSULTANT | |
| SUB-CONSULTANT | <div><div><div><div><div><div>GEO-XERGY</div><div>SYSTEMS</div></div></div><div><div>8915156 Canada Inc.</div><div>Unit M - 675 Berry Street</div><div>Winnipeg MB, Canada R3H 1A7</div><div>Tel: 204 255 5959</div><div>www.geoxergy.com</div></div></div><div><div><div>LICENSED PROFESSIONAL ENGINEER</div><div>S. M. R. ALMEIDA</div><div>100101229</div><div>PROVINCE OF ONTARIO</div></div></div></div></div> |

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| DESIGN BY: GFR | SCALE: NTS |
| DRAWN BY: AT | DATE: 2020-12-21 |
| CHECKED BY: — | CONSULTANT PROJECT NO. 20031 |
| APPROVED BY: — | |

| CONSULTANT REVISIONS | NO. | DATE | NAME | REVISIONS |
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| <div><div><div><div><div><div>DURHAM</div><div>REGION</div></div></div></div></div></div> | <div><div>THE REGIONAL MUNICIPALITY OF DURHAM</div><div>WORKS DEPARTMENT</div><div>DESIGN, CONSTRUCTION & ASSET MANAGEMENT</div></div> |
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SEATON EMS

GROUND HEAT EXCHANGER DETAILS

| | | |
|-----------------------------|-------------------------------|--------------------------------------|
| PROPERTY NO. XXX-X-XXX | FACILITY CODE XXX-XXX-XXXX | FACILITIES PROJECT NO. XXXX-XX-XX |
| CONTRACT NO. T-XXXX-20XX | DRAWING NO. G-102 | SHEET NO. 2 OF 3 |



KEY PLAN

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| CONSULTANT REVISIONS | | | | |
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| | 3 | 21-06-15 | GFR | Issued for 100% |
| | 2 | 21-03-31 | GFR | 90% SUBMISSION |
| | 1 | 20-12-24 | GFR | 60% SUBMISSION |
| | NO. | DATE | NAME | REVISIONS |

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| DESIGN BY: GFR | SCALE AS NOTED |
| DRAWN BY: AT | DATE: 2020-12-21 |
| CHECKED BY: — | CONSULTANT PROJECT NO. 20031 |
| APPROVED BY: — | |

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| CONTRACT REVISIONS | | | | |
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| | NO. | DATE | NAME | REVISIONS |

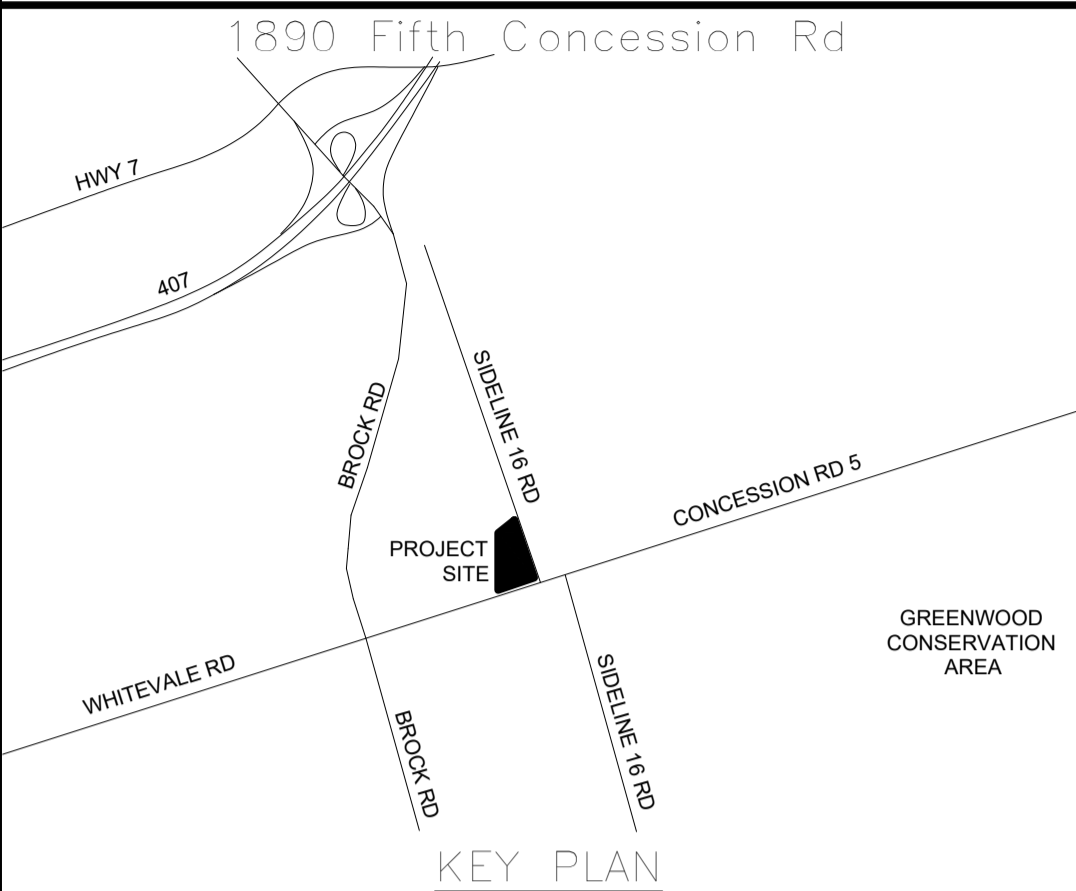


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| PROPERTY NO. XXX-X-XXX | FACILITY CODE XXX-XXX-XXXX | FACILITIES PROJECT NO. XXXX-XX-XX |
| CONTRACT NO. T-XXXX-20XX | DRAWING NO. G-103 | SHEET NO. 3 OF 3 |

EROSION & SEDIMENT CONTROL GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF ANY ON-SITE WORK/TOPSOIL STRIPPING, EROSION AND SEDIMENT CONTROL (ESC) MEASURES, AS PER APPROVED EROSION & SEDIMENT CONTROL PLAN, MUST BE INSTALLED TO PREVENT SURFACE RUNOFF FROM LEAVING THE SITE "UNTREATED". ALL ESC MEASURES ARE TO BE MAINTAINED UNTIL THE SITE HAS BEEN STABILIZED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION, AS DIRECTED BY THE ENGINEER OR THE CITY OF PICKERING.
3. SEDIMENT CONTROL FENCE TO USE GEOTEXTILE WITH WEAVE DENSITY OF 270R TERRAFIX OR EQUIVALENT.
4. ALL EXPOSED SOILS SHALL BE IMMEDIATELY STABILIZED AS DIRECTED BY THE ENGINEER OR CITY OF PICKERING.
5. CHECK DAMS ARE TO BE USED IN ANY TEMPORARY DRAINAGE SWALES REQUIRED DURING THE CONSTRUCTION PERIOD.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AND SHALL BE DETERMINED BY THE ENGINEER OR THE CITY OF PICKERING.
7. ALL SWALES ARE TO BE STABILIZED PRIOR TO USE.
8. INSPECTION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES WILL OCCUR ON A WEEKLY BASIS, AFTER RAINFALL EVENTS EXCEEDING 10mm OR AFTER RAPID SNOW MELT EVENTS AND DAILY DURING EXTENDED RAIN OR SNOW MELT PERIODS. THE SILT CONTROL FENCE MUST BE INSPECTED FOR RIPS OR TEARS, BROKEN STAKES, BLOW OUTS AND ACCUMULATION OF SEDIMENT. THE SILT CONTROL FENCE MUST BE FIXED AND/OR REPLACED IMMEDIATELY WHEN DAMAGED. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE SILT CONTROL FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
9. ROCK CHECK DAMS ARE TO BE CLEANED OF ALL ACCUMULATED SEDIMENT AS SOON AS SEDIMENT HAS ACCUMULATED TO A DEPTH GREATER THAN 50% OF ALL THE UPSTREAM CHECK DAMS.
10. CLEANING AND REPAIR OF MUD MATS AND ANY OTHER TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE DONE AS NECESSARY THROUGH REGULAR INSPECTION OR AS DIRECTED BY THE ENGINEER OR CITY OF PICKERING. ALL DAMAGED ESC MEASURES SHALL BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
11. MATERIALS TO REPAIR DAMAGED ESC MEASURES MUST BE KEPT ON-SITE AT ALL TIMES.
12. THE ESC STRATEGIES ON THESE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES. FAILED ESC MEASURE MUST BE REPAIRED IMMEDIATELY.
13. NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL INTRUDE BEYOND THE SILT CONTROL FENCE OR LIMIT OR DEVELOPMENT. ALL CONSTRUCTION VEHICLES SHALL LEAVE THE SITE AT DESIGNATED LOCATIONS AS SHOWN ON THE PLANS. ALL MATERIALS AND EQUIPMENT SHALL BE STORED ON SITE IN A DESIGNATED AREA. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE MUNICIPAL RIGHT OF WAY. NO CONSTRUCTION VEHICLES WILL PARK ON MUNICIPAL ROADS.
14. SERVICING OF CONSTRUCTION EQUIPMENT ON SITE IS PROHIBITED.
15. THE CONTRACTOR MUST CLEAN ADJACENT ROADS ON A REGULAR BASIS. THE ROAD SHALL BE, AT A MINIMUM SCRAPED DAILY AND FLUSHED (IF NECESSARY) ON FRIDAY EVENINGS OR SATURDAY MORNINGS.
16. DUST CONTROL TO BE REVIEWED DAILY. WATER TRUCK OR CALCIUM CHLORIDE IS TO BE PROVIDED ON-SITE AND HAUL ROADS/WORKING AREAS ARE TO BE TREATED AS REQUIRED TO ENSURE THAT DUST IS CONTROLLED ON-SITE.
17. AT THE END OF CONSTRUCTION PERIOD, ACCUMULATED SEDIMENT IS TO BE REMOVED OFF SITE PRIOR TO THE REMOVAL OF THE SILT FENCE.
18. ALL LITTER AND DEBRIS SHALL BE MONITORED AND DISPOSED OF DAILY OR AS NECESSARY THROUGH REGULAR INSPECTION.
19. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SEDIMENT CONTROL FENCE AND STABILIZED WITH SEED MIX AS PER THIS DRAWING.
20. DISTURBED AREAS ARE TO BE MINIMIZED TO THE EXTENT POSSIBLE AND STABILIZED AS THE WORK PROGRESSES. ANY AREA EXPOSED FOR MORE THAN 30 DAYS WILL BE STABILIZED.

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SURVEY & BENCHMARK

SURVEY COMPLETED BY IRW SURVEYORS JULY 2018.

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| DESIGN BY: SM | SCALE: 1:500 |
| DRAWN BY: MR | DATE: 22 September, 2021 |
| CHECKED BY: SM | CONSULTANT PROJECT NO. 60698928 |
| APPROVED BY: - | CLIENT FILE No.: 811/20 |

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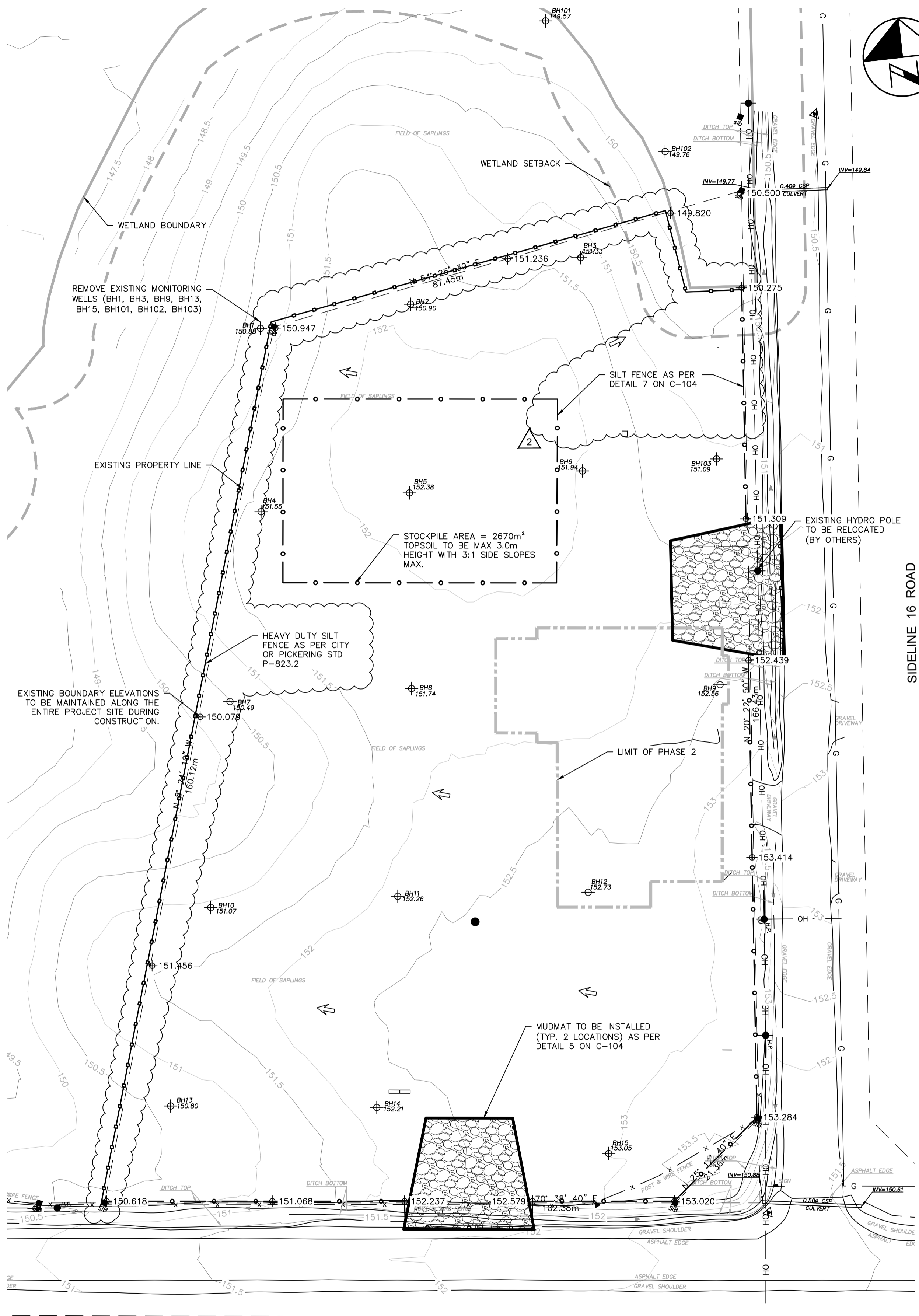


THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
EROSION & SEDIMENT CONTROL
CONSTRUCTION MANAGEMENT PLAN

| | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T-1160-2021 | C-101 | P061-18-01 |



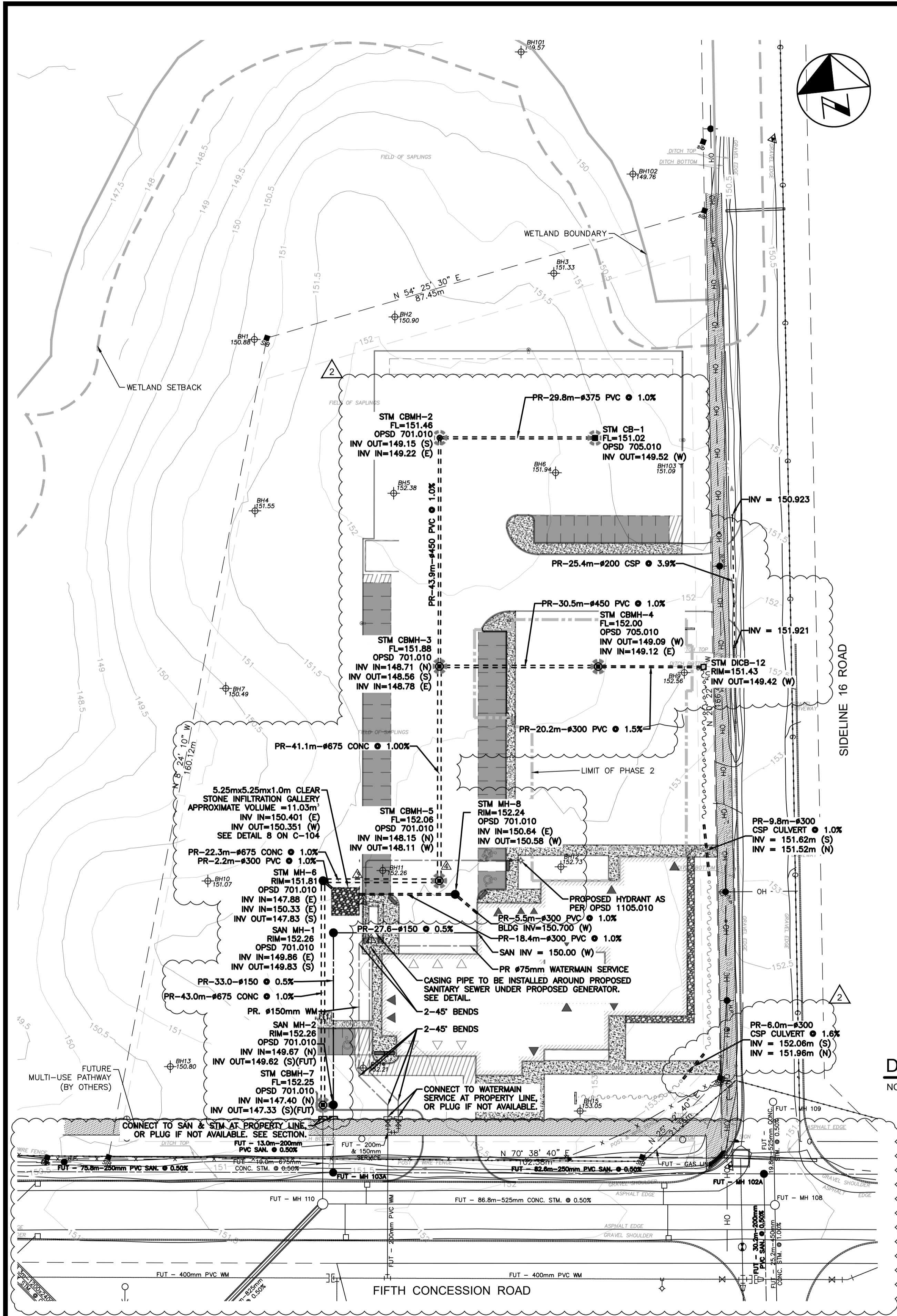
SIDELINE 16 ROAD

FIFTH CONCESSION ROAD

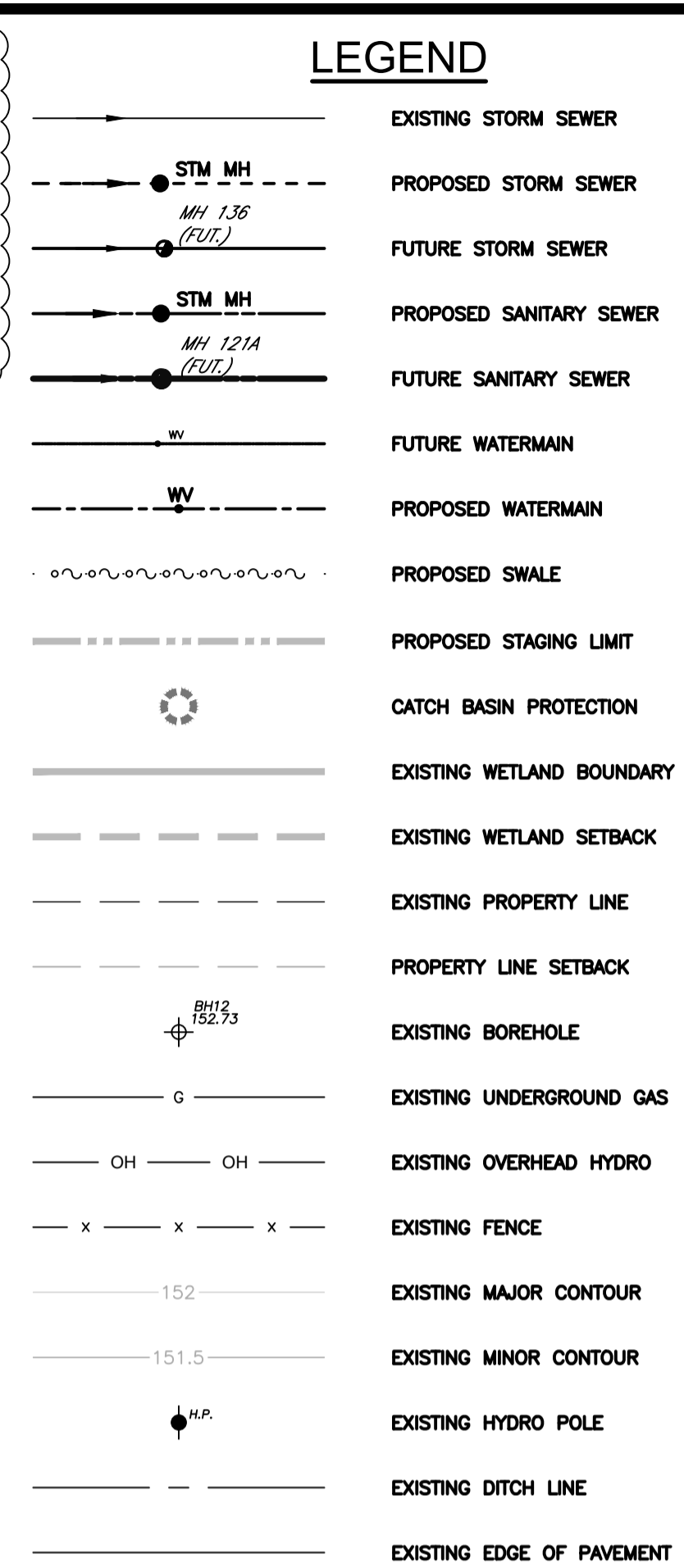
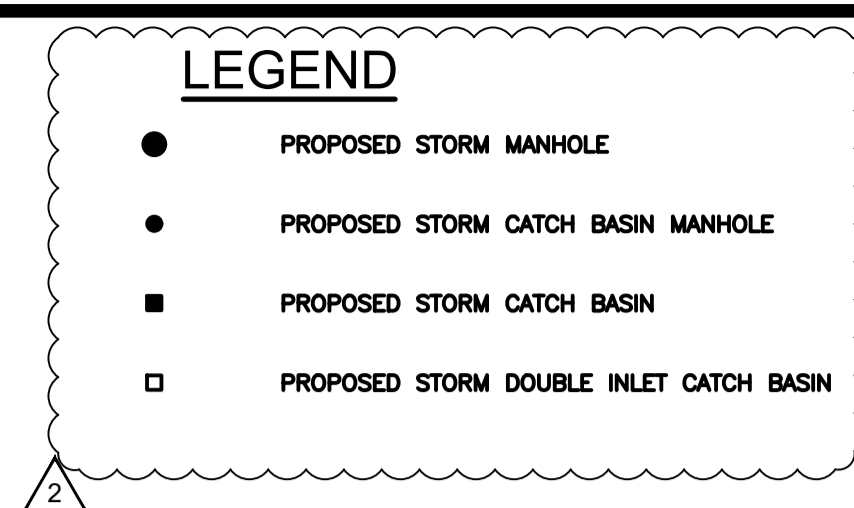
PHASE 1
EROSION & SEDIMENT
CONTROL

LEGEND

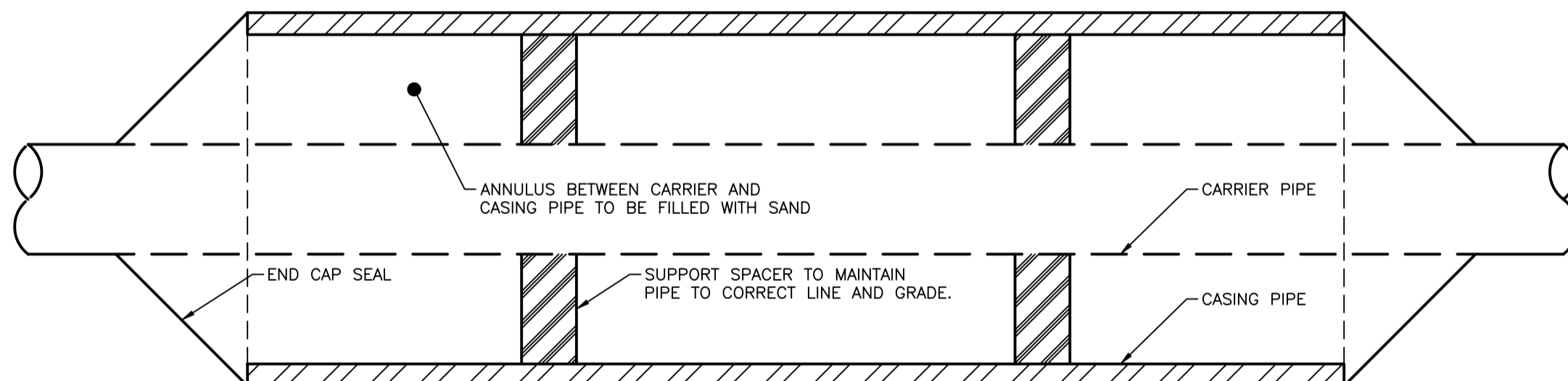
| | |
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| | PROPOSED SILT FENCE AS PER DETAIL 7 ON C-104 |
| | HEAVY DUTY SILT FENCE AS PER STD P-823.2 |
| | PROPOSED STAGING LIMIT |
| | PROPOSED MUDMAT |
| | EXISTING WETLAND BOUNDARY |
| | EXISTING WETLAND SETBACK |
| | EXISTING PROPERTY LINE |
| | EXISTING BOREHOLE |
| | EXISTING UNDERGROUND GAS |
| | EXISTING OVERHEAD HYDRO |
| | EXISTING FENCE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | EXISTING HYDRO POLE |
| | EXISTING DITCH LINE |
| | EXISTING EDGE OF PAVEMENT |
| | OVERLAND FLOW |



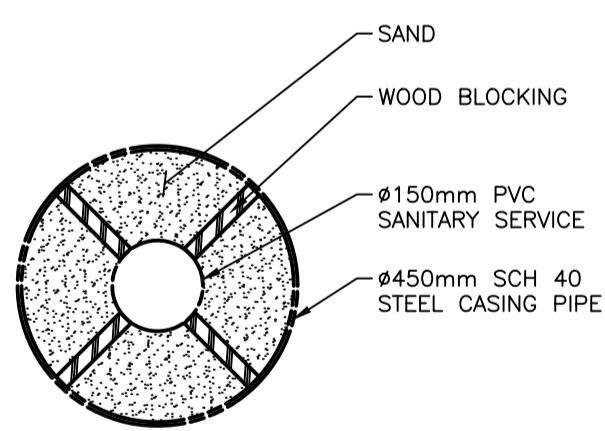
PHASE 1
SERVICING



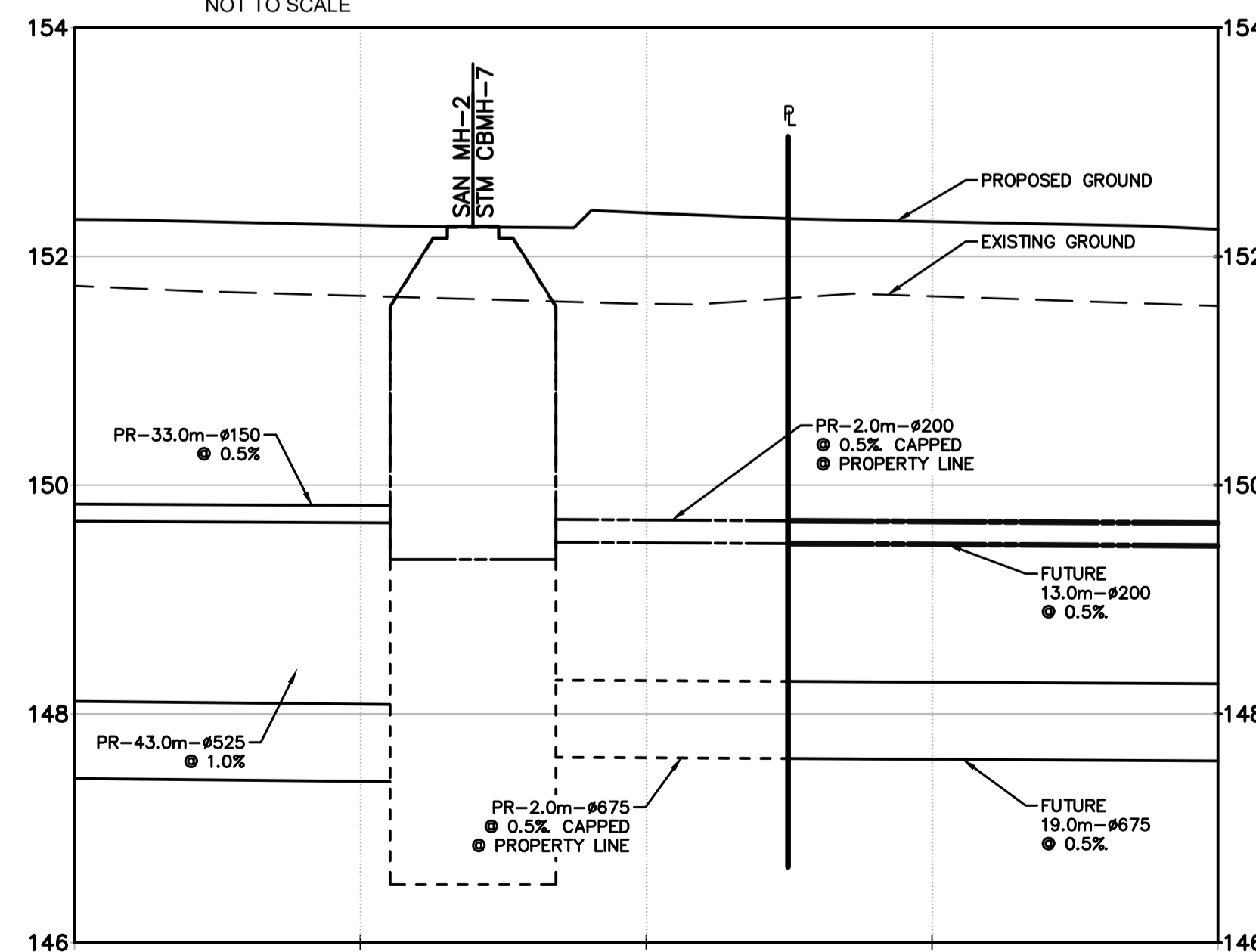
| UTILITY CROSSING TABLE | | | | |
|------------------------|------------------|---------------|---------------|---------------|
| NO. | UTILITIES | OBVERT (m) | INVERT (m) | CLEARANCE (m) |
| 1 | SANITARY & WATER | 149.043 (SAN) | 150.456 (WAT) | 1.413 |
| 2 | STORM & WATER | 150.714 (STM) | 151.214 (WAT) | 0.500 |
| 3 | STORM & WATER | 148.502 (STM) | 150.557 (WAT) | 2.055 |
| 4 | STORM & WATER | 148.803 (STM) | 150.141 (WAT) | 1.338 |



SECTION CASING PIPE

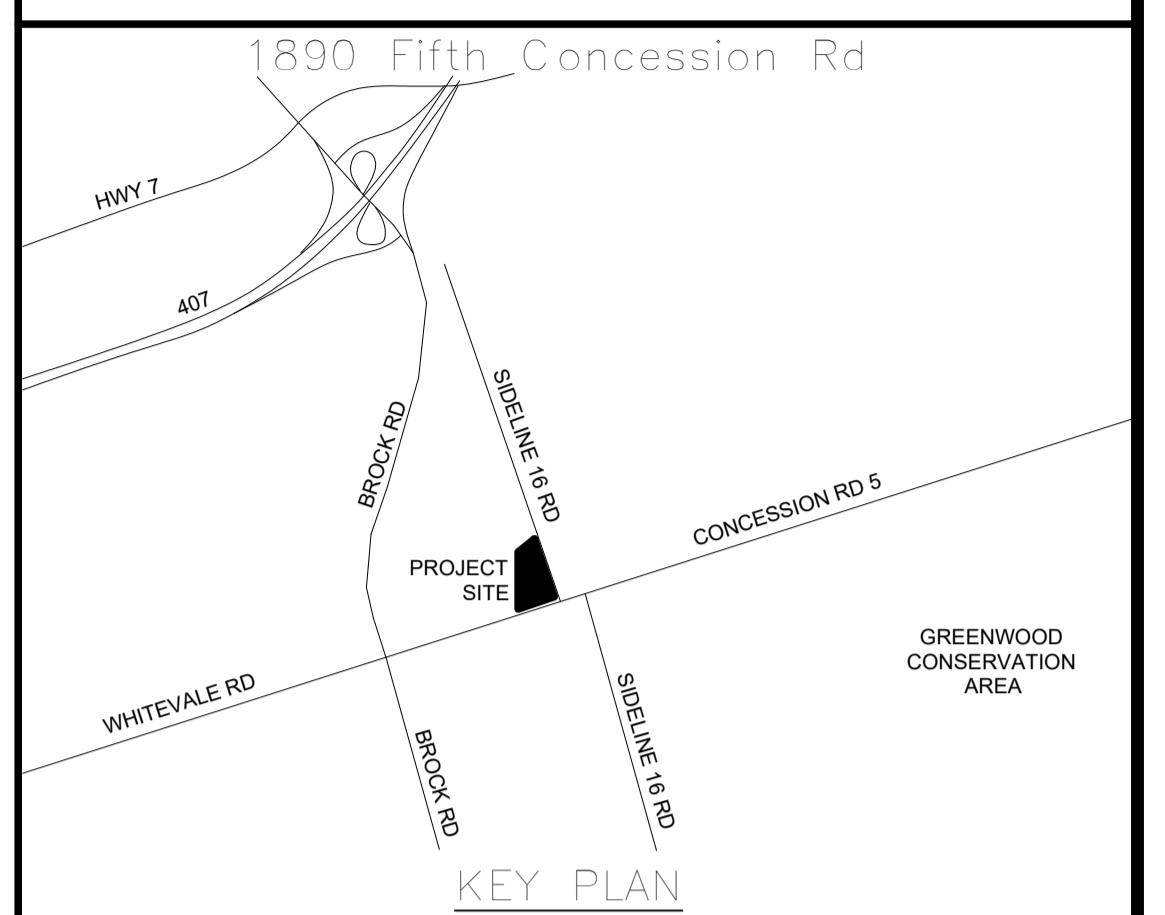


DETAIL CASING PIPE
NOT TO SCALE



SECTION
1:50

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LICENSED PROFESSIONAL ENGINEER
S. T. KAYARU
100147402
MARCH 14, 2021
PROVINCE OF ONTARIO

SURVEY & BENCHMARK
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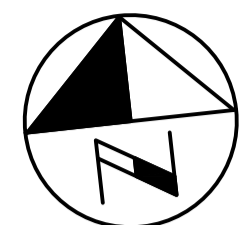
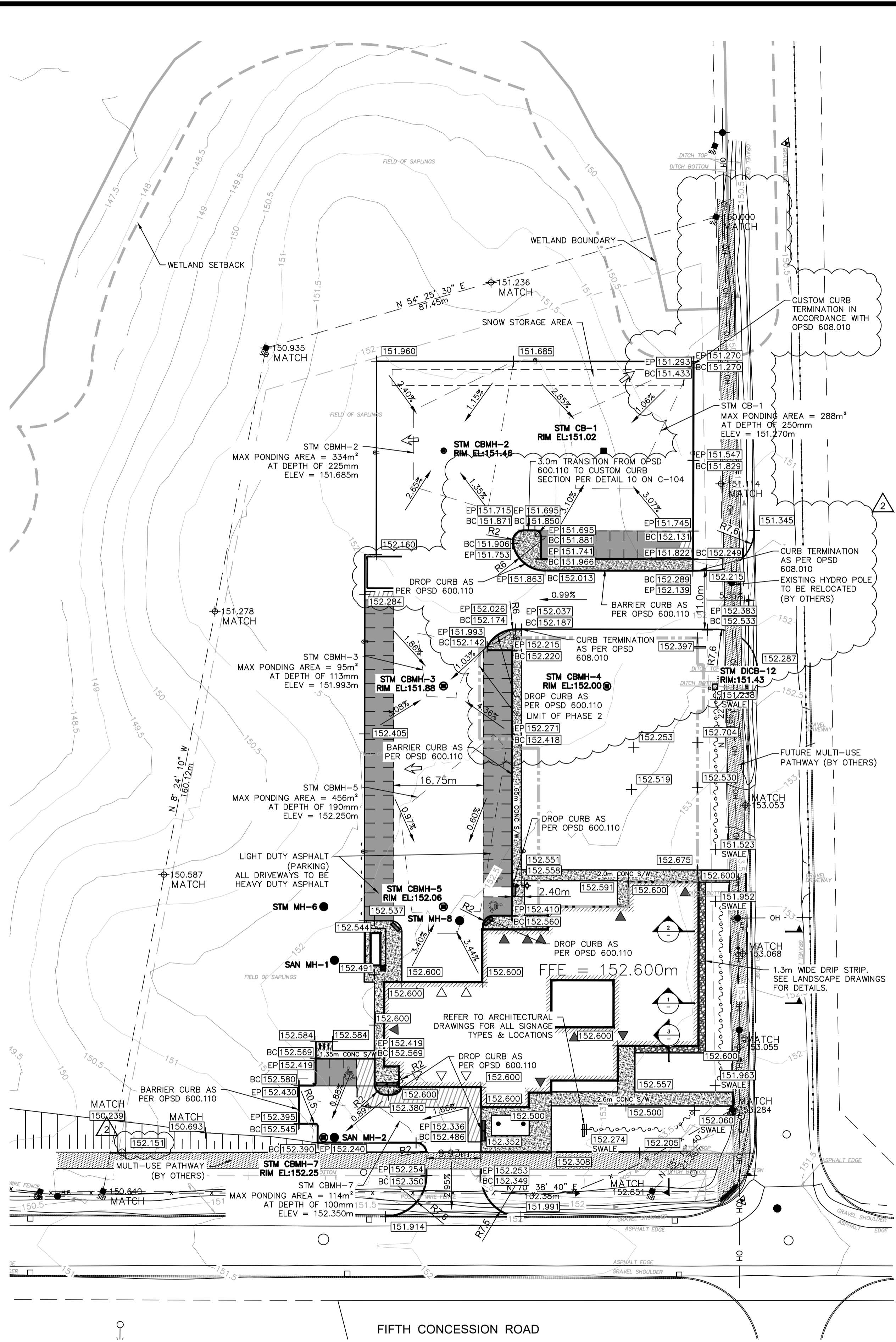
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THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
SITE SERVICING PLAN

| | | |
|--------------|-----------------|------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T-1160-2021 | C-102 | P061-18-01 |



LEGEND

- PROPOSED STORM MANHOLE
- PROPOSED STORM CATCH BASIN MANHOLE
- PROPOSED STORM CATCH BASIN
- PROPOSED STORM DOUBLE INLET CATCH BASIN
- PROPOSED EDGE OF PAVEMENT ELEVATION
- PROPOSED BACK OF CURB ELEVATION

LEGEND

- + 316.710 PROPOSED SPOT ELEVATION
- + 151.633 EXISTING SPOT ELEVATION
- 0.73% SURFACE FLOW ARROW
- OVELAND FLOW
- PROPOSED STAGING LIMIT
- PROPOSED PONDING AREA
- PROPOSED SWALE
- EXISTING WETLAND BOUNDARY
- EXISTING WETLAND SETBACK
- EXISTING PROPERTY LINE
- PROPERTY LINE SETBACK
- EXISTING BOREHOLE
- EXISTING UNDERGROUND GAS
- OH — OH EXISTING OVERHEAD HYDRO
- EXISTING FENCE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING HYDRO POLE
- EXISTING DITCH LINE
- EXISTING EDGE OF PAVEMENT

SIDELINE 16 ROAD

SECTION 1

H: 1:100
V: 1:50

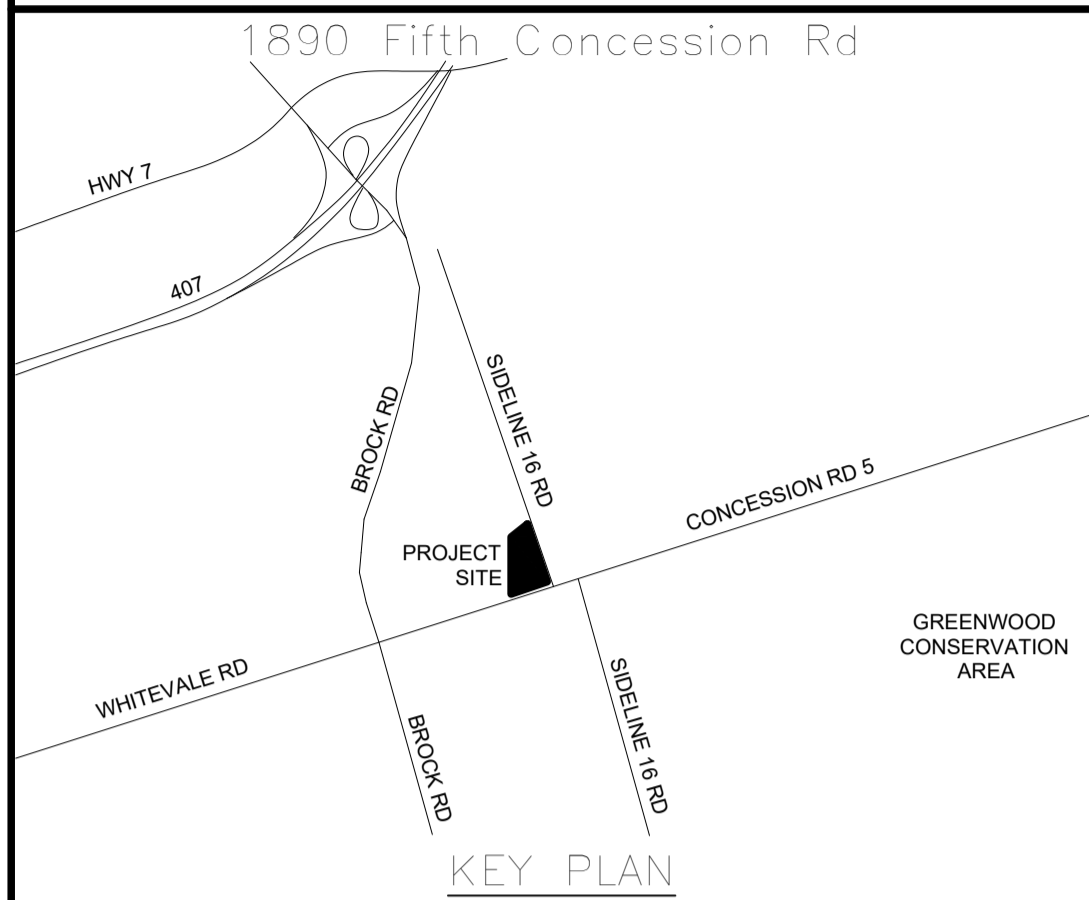
SECTION 2

H: 1:100
V: 1:50

SECTION 3

H: 1:100
V: 1:50

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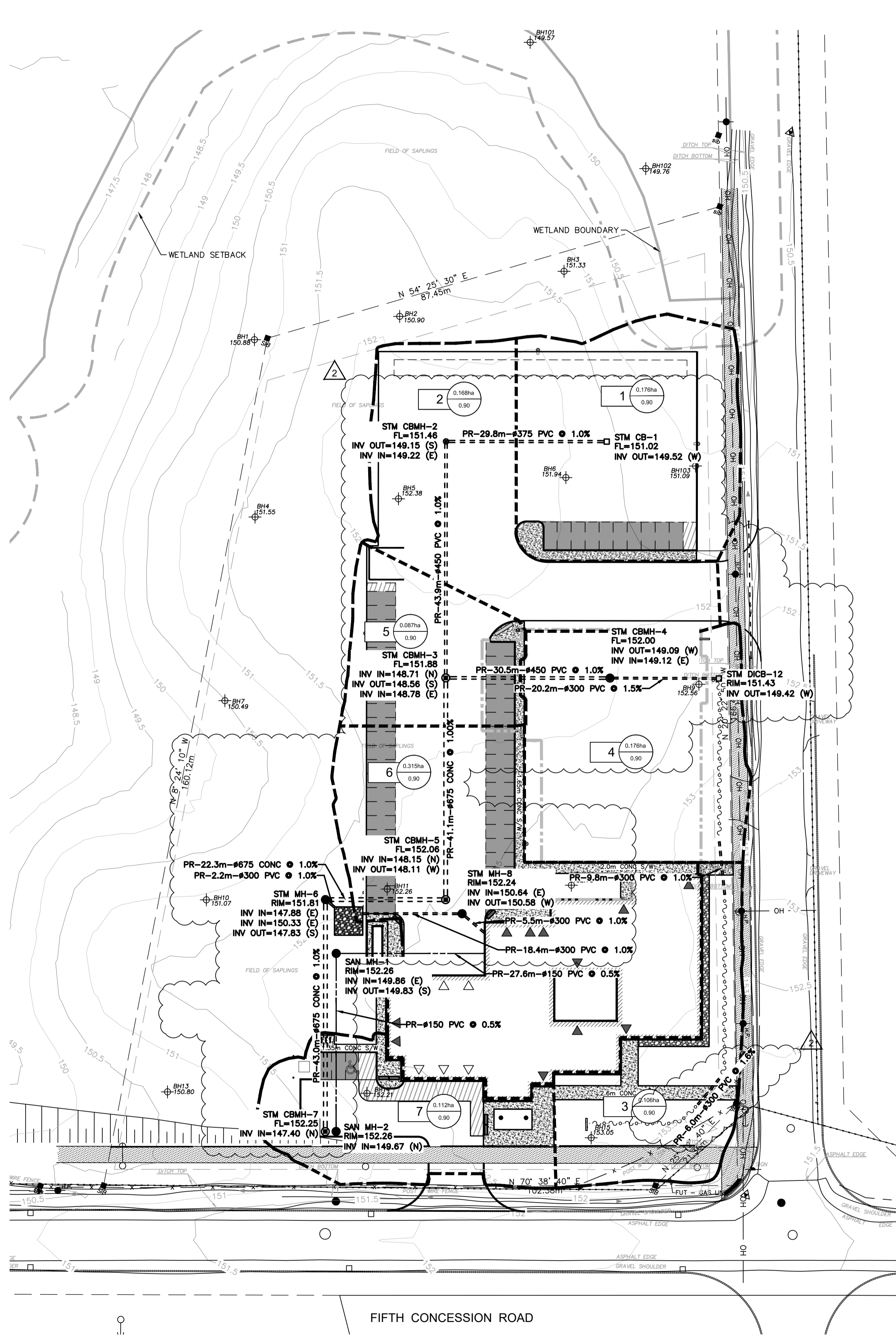
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WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING SITE GRADING PLAN

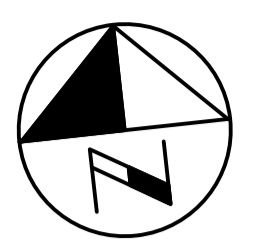
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T-1160-2021 | C-103 | P061-18-01 |



SIDELINE 16 ROAD

FIFTH CONCESSION ROAD

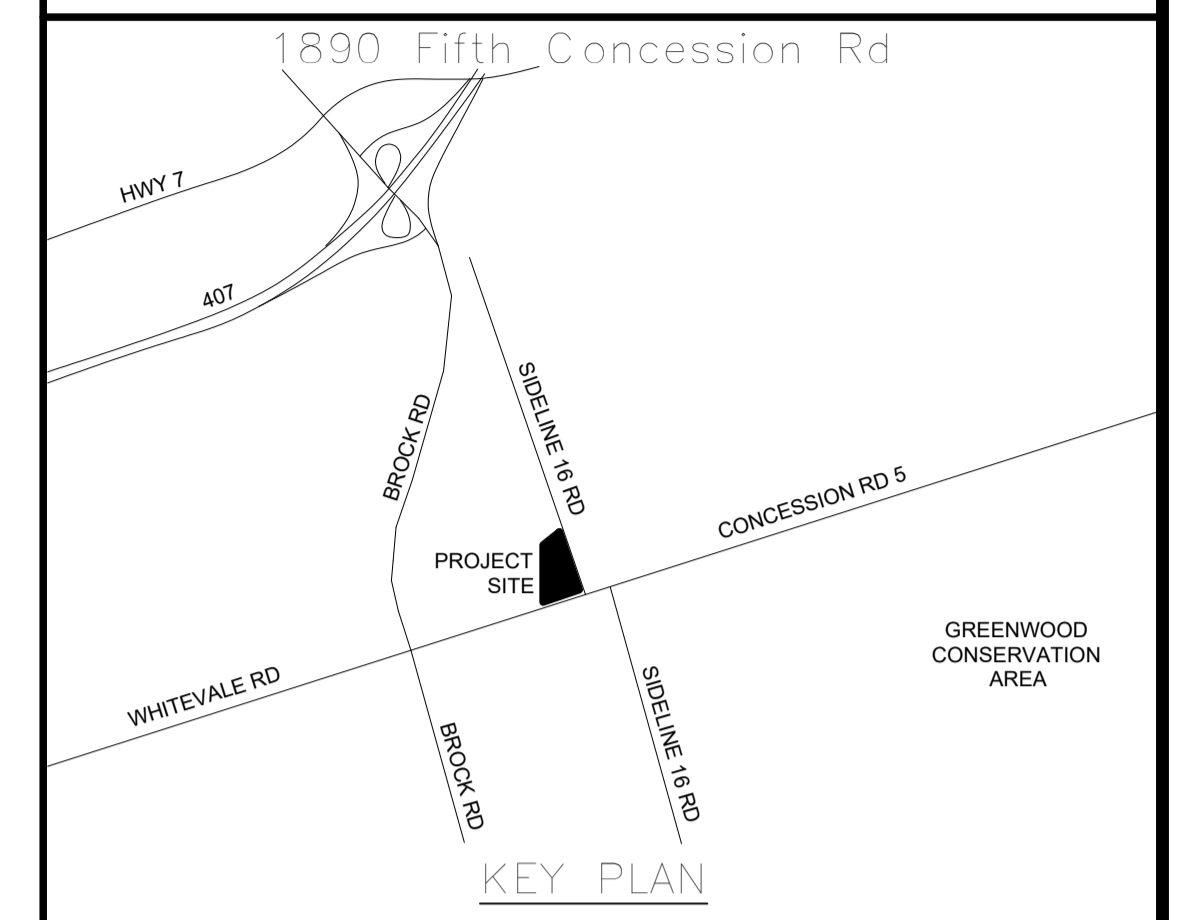
PHASE 1
DRAINAGE



LEGEND

- AREA NUMBER 1 CATCHMENT AREA 0.178ha 0.90 RUNOFF COEFFICIENT
- PROPOSED STORM CATCHMENT AREAS
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- FUTURE STORM SEWER
- PROPOSED SANITARY SEWER
- FUTURE SANITARY SEWER
- FUTURE WATERMAIN
- PROPOSED WATERMAIN
- PROPOSED STAGING LIMIT
- PROPOSED SWALE
- PROPOSED STORM MANHOLE
- PROPOSED STORM CATCH BASIN MANHOLE
- PROPOSED STORM CATCH BASIN
- PROPOSED STORM DOUBLE INLET CATCH BASIN
- EXISTING WETLAND BOUNDARY
- EXISTING WETLAND SETBACK
- EXISTING PROPERTY LINE
- PROPERTY LINE SETBACK
- EXISTING BOREHOLE
- EXISTING UNDERGROUND GAS
- EXISTING OVERHEAD HYDRO
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- EXISTING MINOR CONTOUR
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- EXISTING EDGE OF PAVEMENT

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DURHAM REGION

THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
DRAINAGE AREAS

| | | |
|--------------|-----------------|------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T-1160-2021 | C-105 | P061-18-01 |

1. GENERAL NOTES APPLY TO PLANTING PLANS L-100 AND L-101.
2. ENSURE THAT PLANT MATERIAL DOES NOT DRY OUT PRIOR TO INSTALLATION.
3. TREES SHALL BE SET @ 50mm ABOVE ORIGINAL NURSERY GRADE AND SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
4. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
5. WATER AND MULCH PLANT IMMEDIATELY FOLLOWING PLANTING.
6. FOR TREES PLANTED WITHIN PLANTING OR SHRUB BEDS, DELETE SAUCER AROUND BASE OF TREE.
7. CONTRACTOR SHALL REMOVE TREE STAKES AND TIES ONE YEAR AFTER PLANTING, OR AT END OF 2 YEAR WARRANTY PERIOD IF STAKES ARE STILL REQUIRED.
8. TREES SHOWING SIGNS OF GIRDLING MAY BE REQUIRED TO BE REPLACED.
9. NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.
10. CONTRACTOR TO STAKE LIMITS OF SHRUB BEDS AND SEEDED AREAS FOR CONSULTANT REVIEW AND APPROVAL PRIOR TO EXCAVATING AND PLANTING.
11. CONDITION OF NURSERY STOCK IS TO MEET CONSULTANTS APPROVAL PRIOR TO ARRIVAL ON SITE.



 SOD, AS PER DETAIL 4/L-103

 (A) TABLELAND GRASS SEED MIXTURE,
AS PER DETAIL 4/L-103

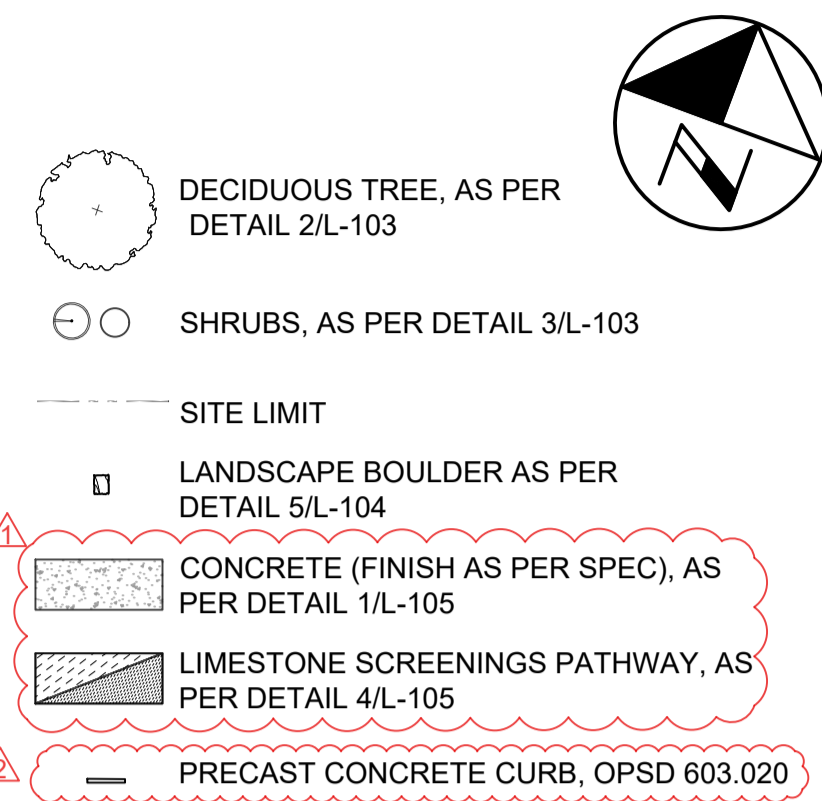
 (B) NATIVE PRAIRIE MEADOW SEED MIXTURE,
AS PER DETAIL 4/L-103

 (C) FLOWERING LAWN SEED MIXTURE,
AS PER DETAIL 4/L-103

 (D) STANDARD OBL. WETLAND NATIVE SEED
MIXTURE, AS PER DETAIL 4/L-103

 MULCHED PLANTING BED 75mm DEPTH

 CONIFEROUS TREE, AS PER DETAIL 1/L-103



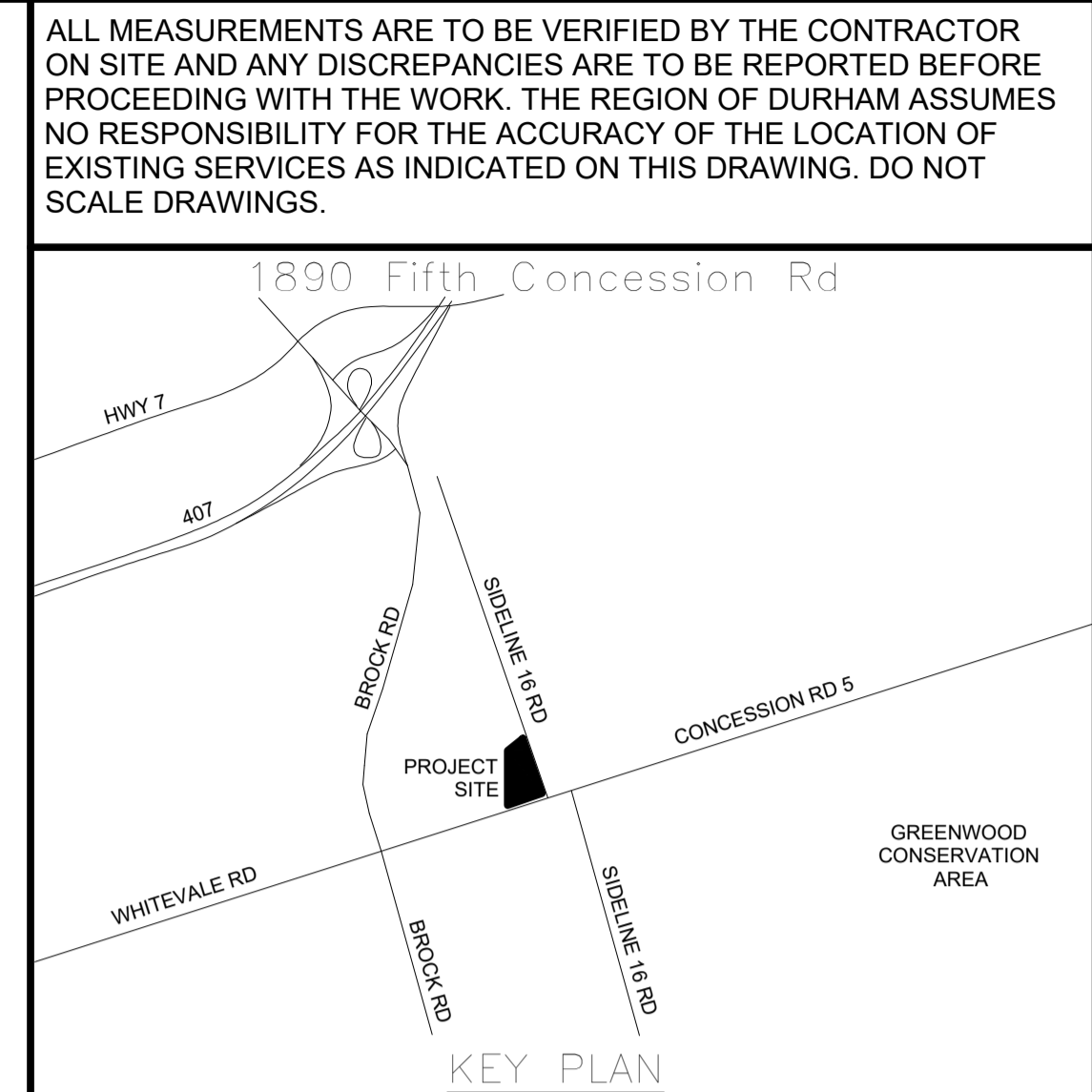
| KEY | QTY | BOTANICAL NAME | COMMON NAME | CONDITION | SPACING | NOTES |
|-----|-----|----------------------------|------------------------|-----------|----------------|---------------|
| A | 8 | Amelanchier canadensis | Serviceberry | 50mm WB | As per drawing | Tree Form |
| Al | 5 | Amelanchier laevis | Allegheny Serviceberry | 45mm WB | As per drawing | Multi Stemmed |
| Fg | 6 | Fagus grandifolia | American Beech | 60mm WB | As per drawing | |
| Gb | 11 | Ginkgo biloba 'Magyar' | Magyar Maidenhair Tree | 60mm WB | As per drawing | |
| Pt | 6 | Populus tremuloides | Paper Birch | 60mm WB | As per drawing | |
| Q2 | 2 | Quercus palustris | Pin Oak | 50mm WB | As per drawing | |
| Tc | 1 | Tilia cordata 'Corinthian' | Corinthian Linden | 45mm WB | As per drawing | |

| | | | | | |
|----|----|----------------|--------------------|----------|----------------|
| Li | 9 | Larix laricina | American Larch | 250mm WB | As per drawing |
| Pg | 12 | Picea glauca | White Spruce | 250mm WB | As per drawing |
| Ps | 16 | Pinus strobus | Eastern white Pine | 250mm WB | As per drawing |

| | | | | | | |
|-----|-----|---------------------------------|----------------------------|----------|-------|-------|
| cs | 58 | Cornus sericea | Red Osier Dogwood | 60cm HT | 200cm | |
| csk | 109 | Cornus sericea 'Kelsey' | 'Kelsey' Red Osier Dogwood | 60cm HT | 45cm | |
| js | 36 | Juniper sabina 'Calgary Carpet' | Calgary Carpet Juniper | 40cm HT | 100cm | |
| po | 65 | Physocarpus opulifolius | Common Ninebark | 60cm HT | 150cm | |
| rt | 29 | Rhus typhina | Staghorn Sumac | 80cm HT | 300cm | |
| sa | 62 | Symphoricarpos albus | Snowberry | 60cm HT | 100cm | |
| sj | 5 | Spirea japonica 'Flaming Mound' | 'Flaming Mound' Spirea | 50cm HT | 90cm | |
| tm | 18 | Taxus x media 'Hillii' | Hill's Yew | 80cm HT | 100cm | |
| vd | 25 | Viburnum dentatum | Arrowwood | 100cm HT | 175cm | |
| vl | 14 | Viburnum lentago | Nannyberry | 80cm HT | 150cm | Clump |

| | | | | | |
|----|-----|--------------------------|----------------------------|-------|------|
| ag | 20 | Andropogon gerardii | Big Bluestem | 1 gal | 60cm |
| av | 31 | Andropogon virginicus | Broom Sedge | 1 gal | 50cm |
| cc | 84 | Calamagrostis canadensis | Canada Bluejoint Reedgrass | 2 gal | 80cm |
| cv | 171 | Carex vulpinoidea | Fox Sedge | 2 gal | 30cm |

| SYMBOL | COVER | QTY. | SPECIFICATION | SPECIES | APPLICATION RATE |
|---|---|--------|-------------------------------------|--|--------------------------------------|
|  | 945 m ²  | 2.7 kg | Tableland Grass Mixture | Big Bluestem (Andropogon gerardii), Canada Wild Ryegrass (Elymus canadensis), Indiangrass (Sorghastrum nutans), Little Bluestem (Schizachyrium scoparium), Prairie Cordgrass (Spartina pectinata), Switchgrass (Panicum virgatum). | 500g of seed per 180 m ² |
|  | 885 m ²  | 3.1 kg | Native Prairie Meadow Mixture | Black Eyed Susan (Rudbeckia hirta), Early Goldenrod (Solidago juncea), Fowl Bluegrass (Poa palustris), Foxglove/Beardtongue (Penstemon digitalis), Indiangrass (Sorghastrum nutans), Little Bluestem (Schizachyrium scoparium), New England Aster (Aster novae-angliae), Showy Tick Trefoil (Desmodium canadense), Switchgrass (Panicum virgatum), White Vervain (Verbena urticifolia), Wild Bergamot (Monarda fistulosa). | 500g of seed per 180 m ² |
|  | 925 m ²  | 9.1 kg | Flowering Lawn Mixture | English Daisy, Thrift, White Dutch Clover, Birdsfoot Trefoil, Chamomile, Sheeps Fescue and Creeping Red Fescue | 1.5kg of seed per 135 m ² |
|  | 755 m ²  | 0.8 kg | Standard OBL Wetland Native Mixture | Awl Sedge, Blunt Broom Sedge, Boneset, Fox Sedge, Giant Bur Reed, Lurid Sedge, Nodding Bur Marigold, Nodding Sedge, Purple Stemmed Aster, Soft Rush, Spotted Joe Pye Weed, Square Stemmed Monkey Flower, Swamp Milkweed, Tussock Sedge, Virginia Wild Ryegrass, Wool Grass | 500g of seed per 180 m ² |
|  | 5820 m ²  | | Sod | As per spec | |



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| CONSULTATION RECORD | | | | |
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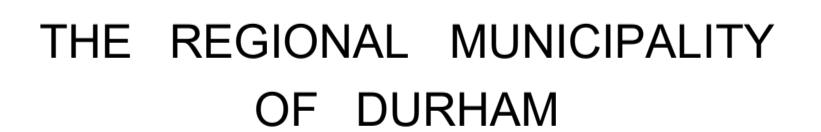
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| DRAWN BY: KB | DATE: 22 September, 2021 |
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| APPROVED BY: DW | CLIENT FILE No.: 811/20 |
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| CONTRACT REVISIONS | | | | |
| | 6 | 03/14/22 | JS | ISSUED FOR CONSTRUCTION |
| | 5 | 02/04/22 | JS | RE-ISSUED FOR SPA |
| | 4 | 12/17/21 | MK | RE-ISSUED FOR TRCA |
| | 3 | 10/18/21 | JS | ISSUED FOR ADDENDUM 1 |
| | 2 | 10/18/21 | JS | RESPONSE TO CITY COMMENTS |
| | 1 | 09/22/21 | KR | ISSUED FOR TENDER |
| | NO. | DATE | NAME | REVISIONS |

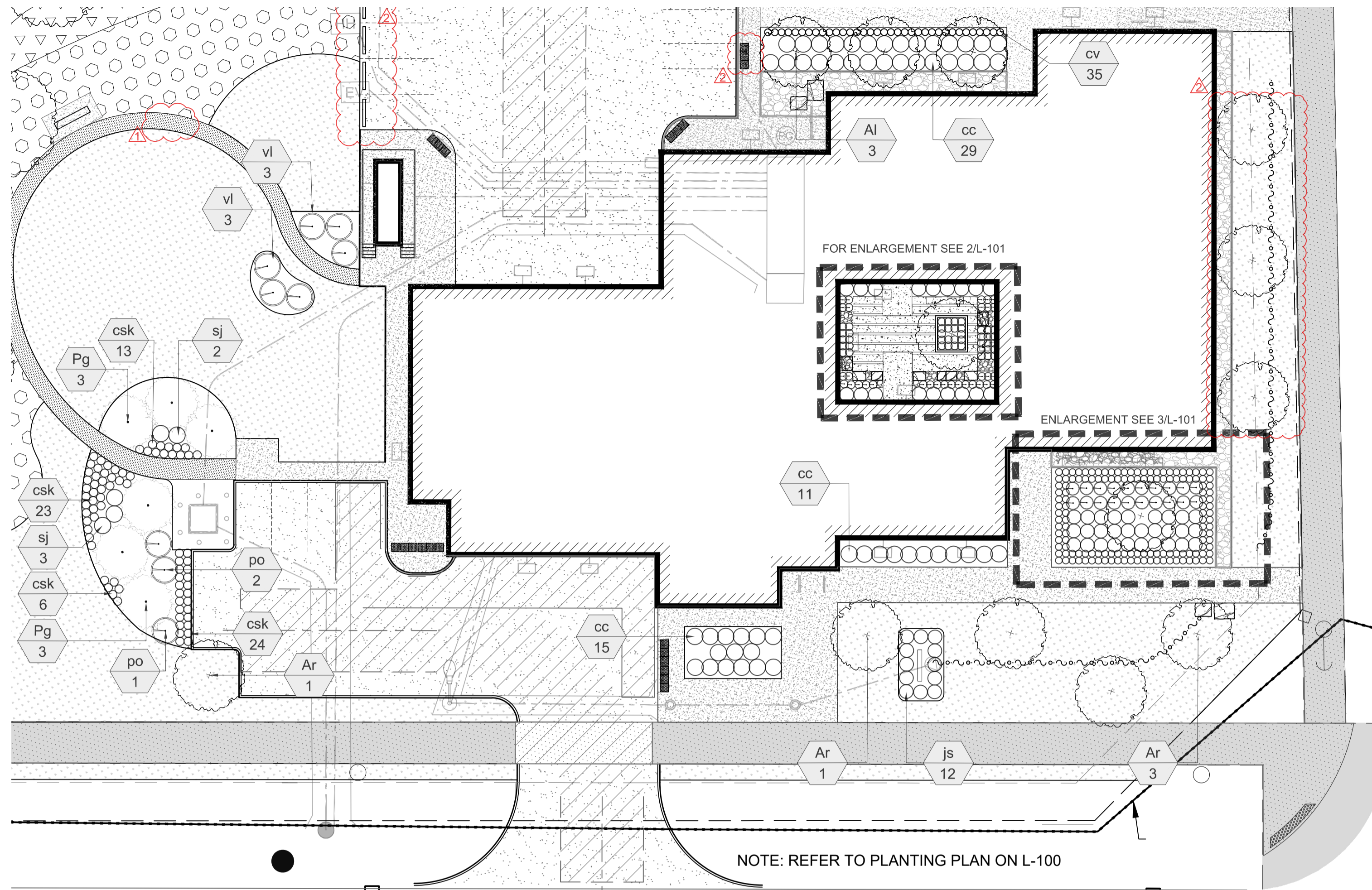


NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING LANDSCAPE SITE PLAN

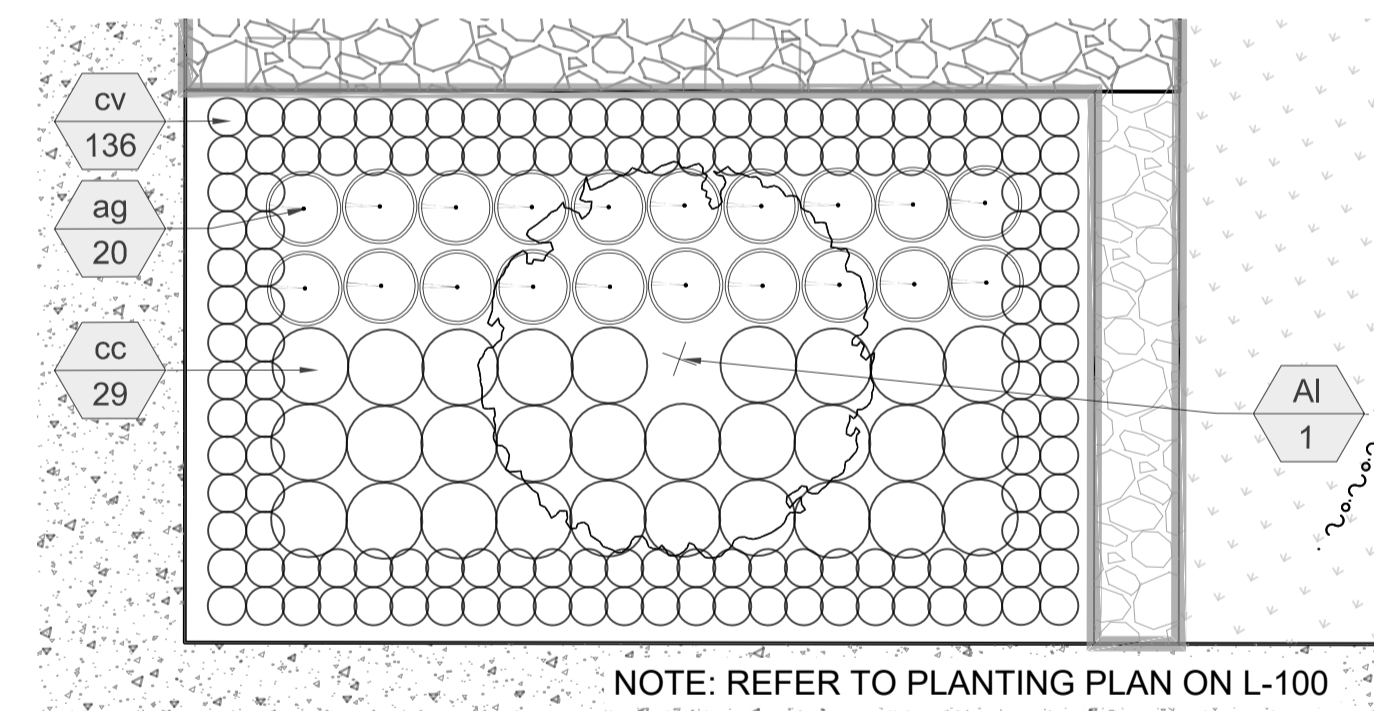
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. L-100 | SHEET NO. |

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

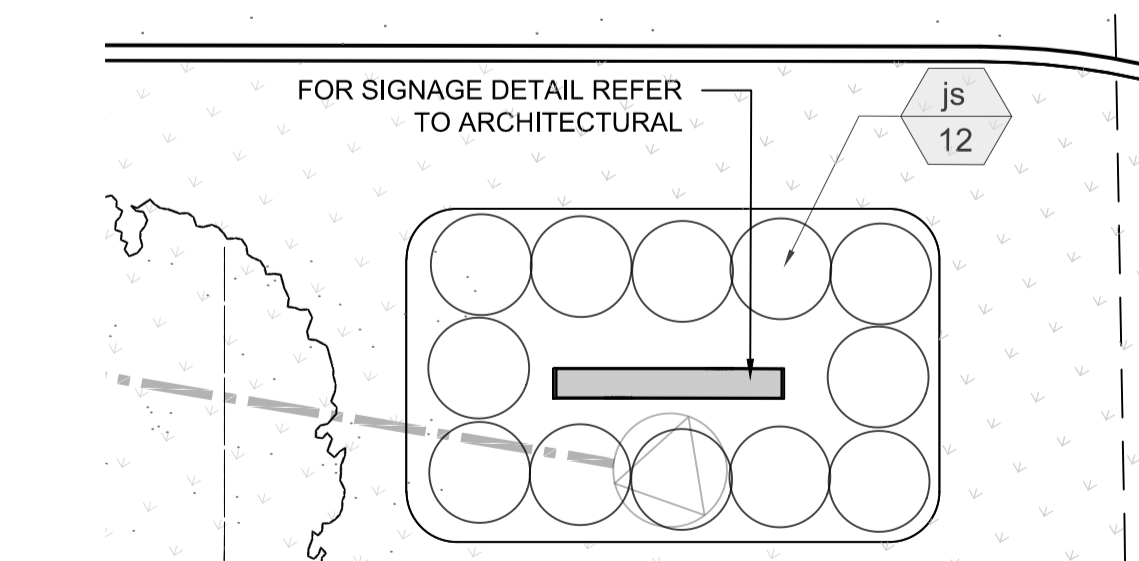
Sample File Path



1 FRONT ENTRANCE ENLARGEMENT PLAN - PLANTING
L-101 SCALE 1:250



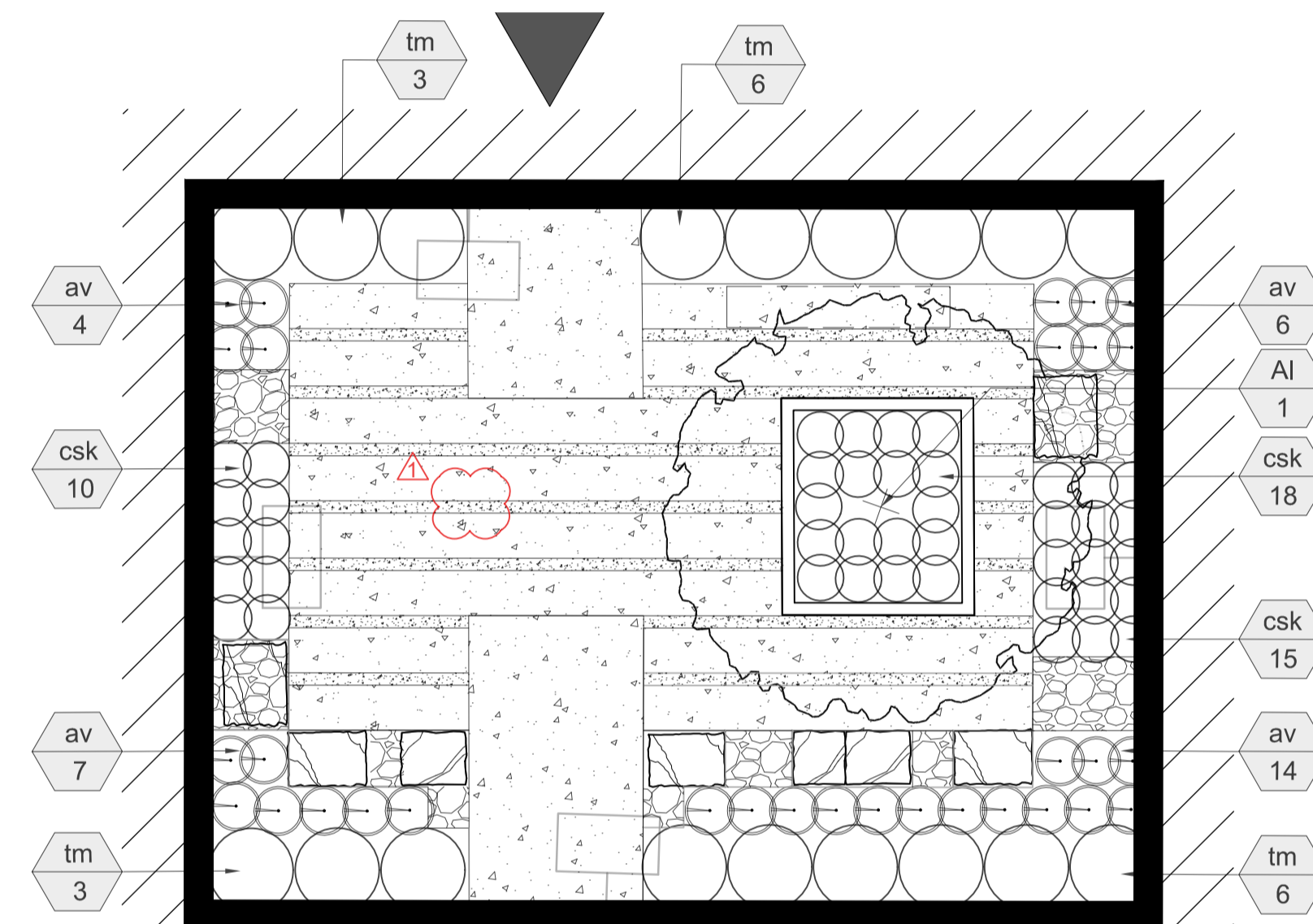
3 FRONT ENTRANCE PLANTING BED ENLARGEMENT PLAN - PLANTING
L-101 SCALE 1:100



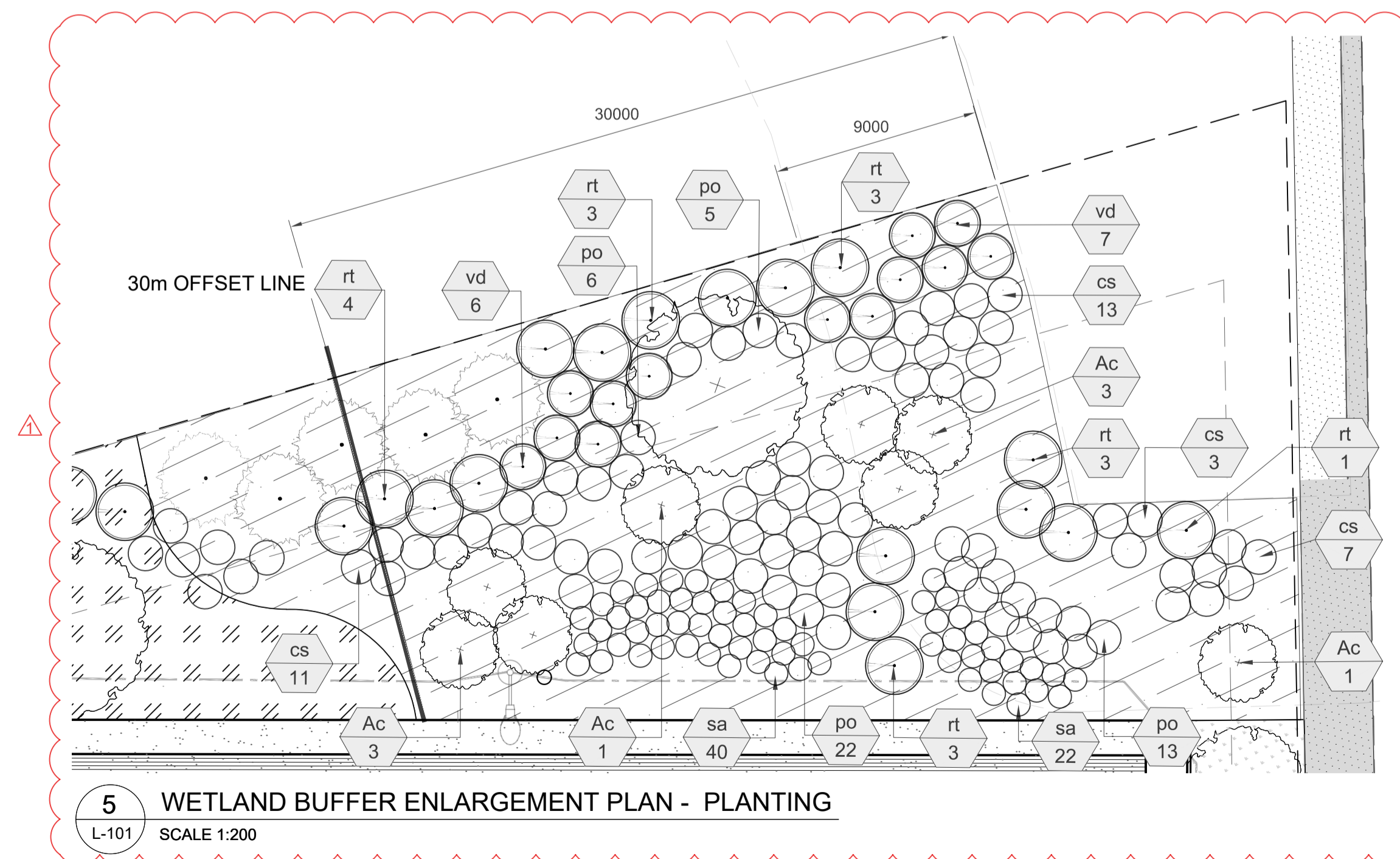
4 SIDELINE 16 ENTRANCE SIGN ENLARGEMENT PLAN - PLANTING
L-101 SCALE 1:75

LEGEND:

- | | |
|--|--|
| SOD, AS PER DETAIL 4/L-103 | SHRUBS, AS PER DETAIL 3/L-103 |
| (A) TABLELAND GRASS SEED MIXTURE | DRIP STRIP, AS PER DETAIL 1/L-104 |
| (B) NATIVE PRAIRIE MEADOW SEED MIXTURE, AS PER DETAIL 4/L-103 | CONTROL JOINTS, AS PER DETAIL 3/L-105 |
| (C) FLOWERING LAWN SEED MIXTURE, AS PER DETAIL 4/L-103 | CONCRETE FINISH TYPE 1 (AS PER SPEC) AS PER DETAIL 1/L-105 |
| (D) STANDARD OBL. WETLAND NATIVE SEED MIXTURE, AS PER DETAIL 4/L-103 | CONCRETE FINISH TYPE 2 (AS PER SPEC) AS PER DETAIL 1/L-105 |
| MULCHED PLANTING BED, 75mm DEPTH | LIMESTONE SCREENINGS PATHWAY, AS PER DETAIL 4/L-105 |
| CONIFEROUS TREE, AS PER DETAIL 1/L-103 | SITE LIMIT |
| DECIDUOUS TREE, AS PER DETAIL 2/L-103 | PRECAST CONCRETE CURB, OPSD 603.020 |
| | EXPANSION JOINTS, AS PER DETAIL 2/L-105 |
| | LANDSCAPE BOULDER, AS PER DETAIL 5/L-104 |

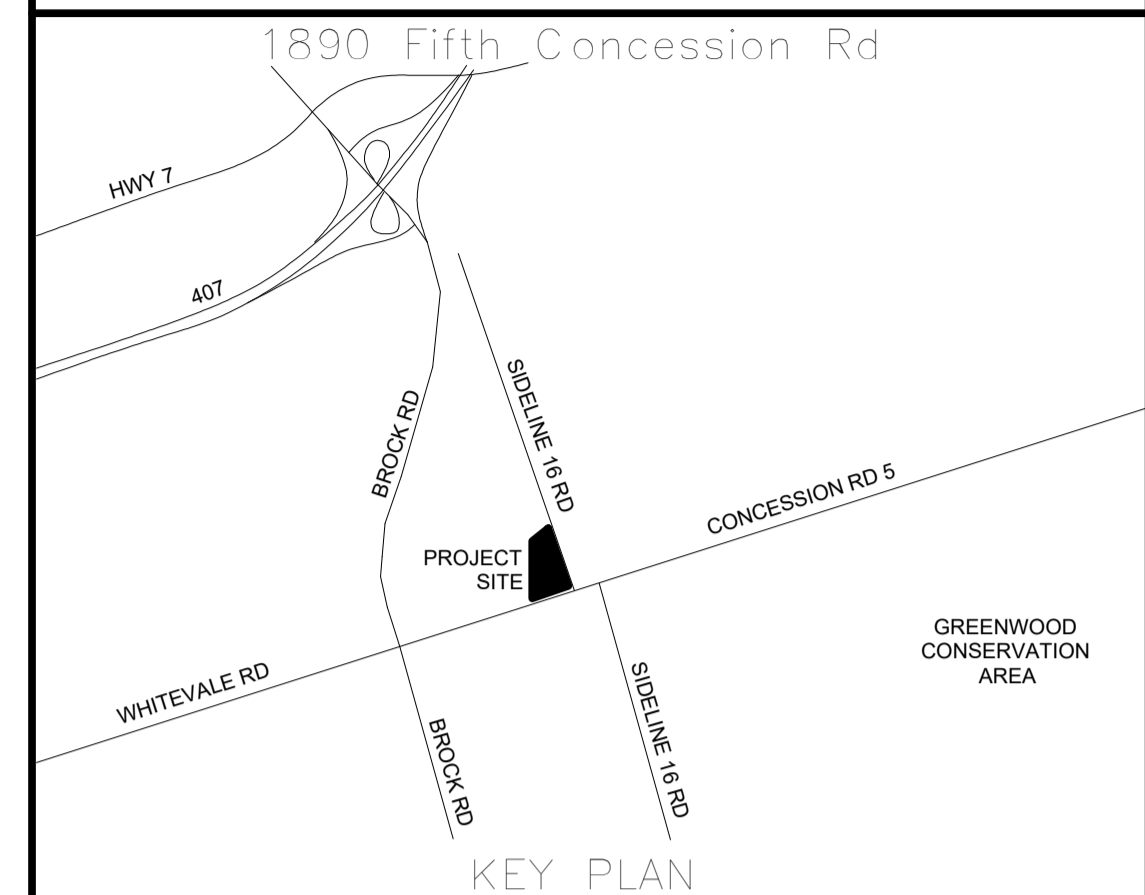


2 COURTYARD ENLARGEMENT PLAN - PLANTING
L-101 SCALE 1:75



5 WETLAND BUFFER ENLARGEMENT PLAN - PLANTING
L-101 SCALE 1:200

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



| NO. | DATE | NAME | REVISIONS |
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| PRIME CONSULTANT | |
| AECOM | |
| AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 200 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com | |
| SUB CONSULTANT | |
| | |

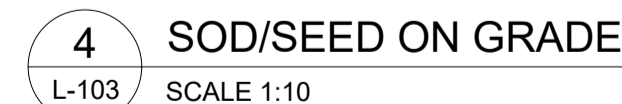
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| DRAWN BY: KR | DATE: 22 September, 2021 |
| CHECKED BY: DW | CONSULTANT PROJECT NO. 6069928 |
| APPROVED BY: DW | CLIENT FILE No.: 811/20 |

| NO. | DATE | NAME | REVISIONS |
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| | THE REGIONAL MUNICIPALITY OF DURHAM |
| | WORKS DEPARTMENT |
| | DESIGN, CONSTRUCTION & ASSET MANAGEMENT |

| | | |
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| NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING LANDSCAPE SITE PLAN ENLARGEMENTS | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| | | P061-18-01 |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T-1160-2021 | L-101 | |



1890 Fifth Concession Rd

HWY 7

407

BROCK RD

SIDELINE 16 RD

CONCESSION RD 5

WHITEVALE RD

BROCK RD

SIDELINE 16 RD

PROJECT SITE

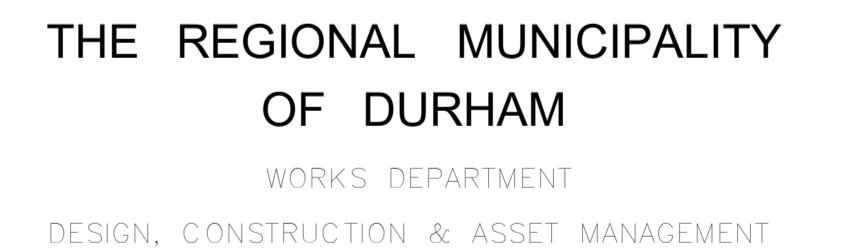
GREENWOOD CONSERVATION AREA

KEY PLAN

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| CHECKED BY: DW | CONSULTANT PROJECT NO. 60698928 |
| APPROVED BY: DW | CLIENT FILE No.: 811/20 |

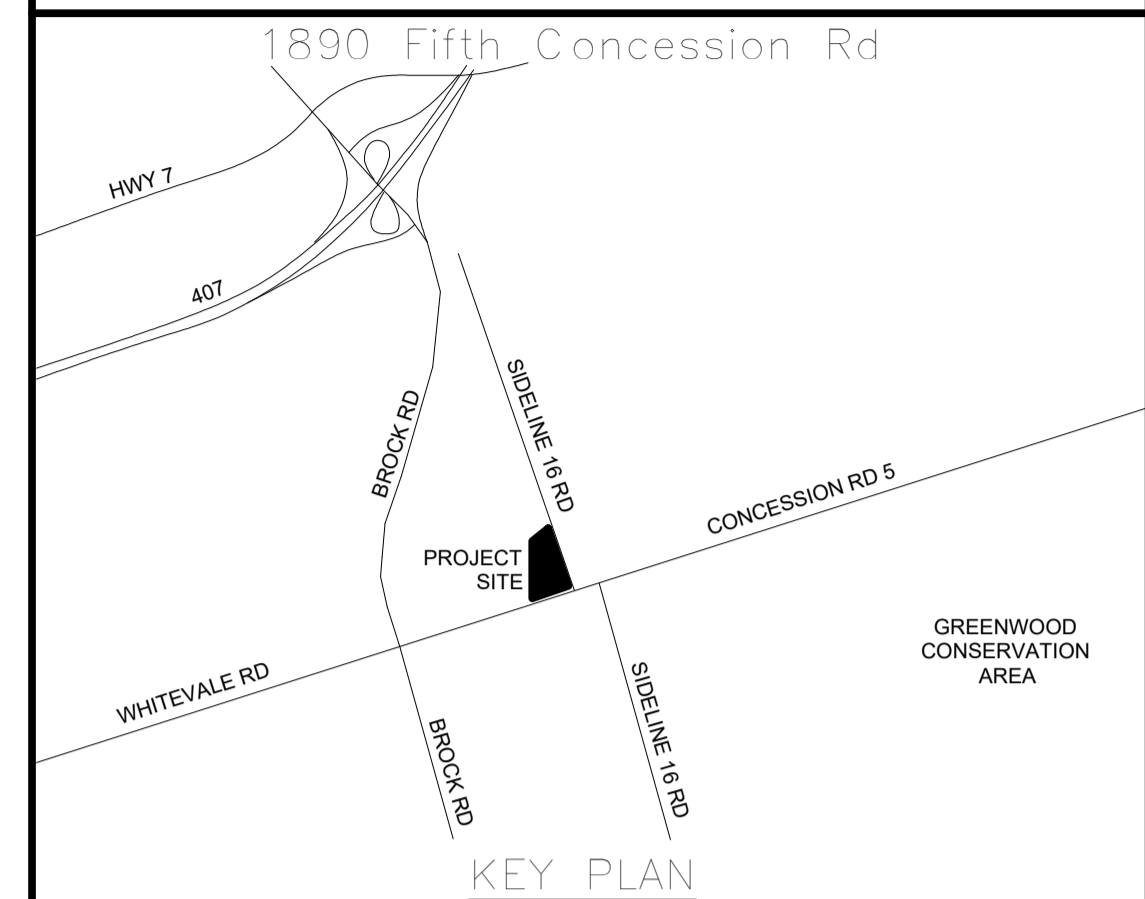
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| 1000042 REVISIONS | | | | |
| | 6 | 03/14/22 | JS | ISSUED FOR CONSTRUCTION |
| | 5 | 02/04/22 | JS | RE-ISSUED FOR SPA |
| | 4 | 12/17/21 | MK | RE-ISSUED FOR TRCA |
| | 3 | 10/18/21 | JS | ISSUED FOR ADDENDUM 1 |
| | 2 | 10/18/21 | JS | RESPONSE TO CITY COMMENTS |
| | 1 | 09/22/21 | KB | ISSUED FOR TENDER |
| | NO. | DATE | NAME | REVISIONS |



NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING LANDSCAPE DETAILS

| | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. L-103 | SHEET NO. |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



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PRIME CONSULTANT

AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 200
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT

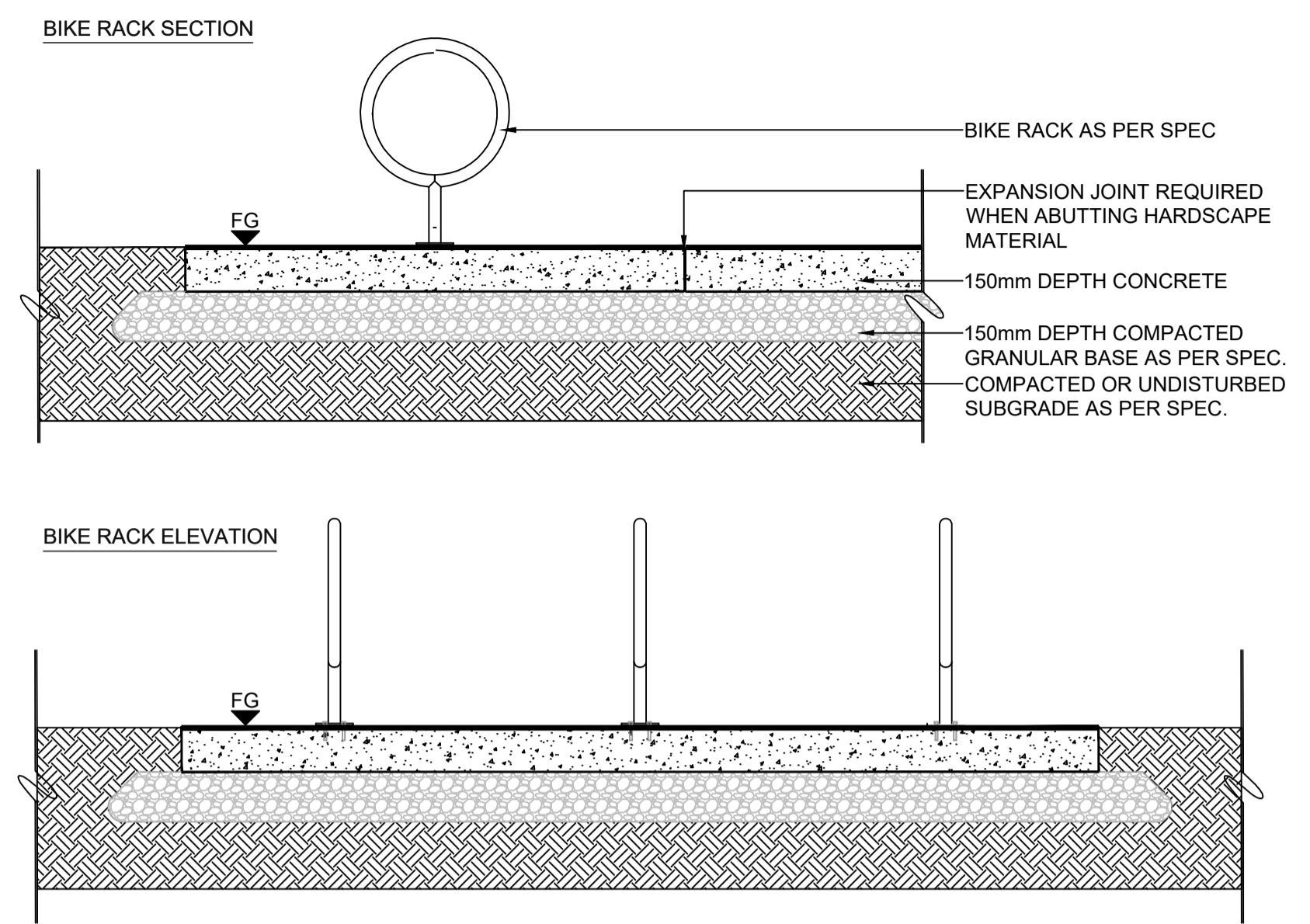
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| DRAWN BY: | KR | DATE: | 22 September, 2021 |
| CHECKED BY: | DW | CONSULTANT PROJECT NO.: | #0698928 |
| APPROVED BY: | DW | CLIENT FILE No.: | 811/20 |

| NO. | DATE | NAME | REVISIONS |
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| 2 | 10/18/21 | JS | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | KB | ISSUED FOR TENDER |

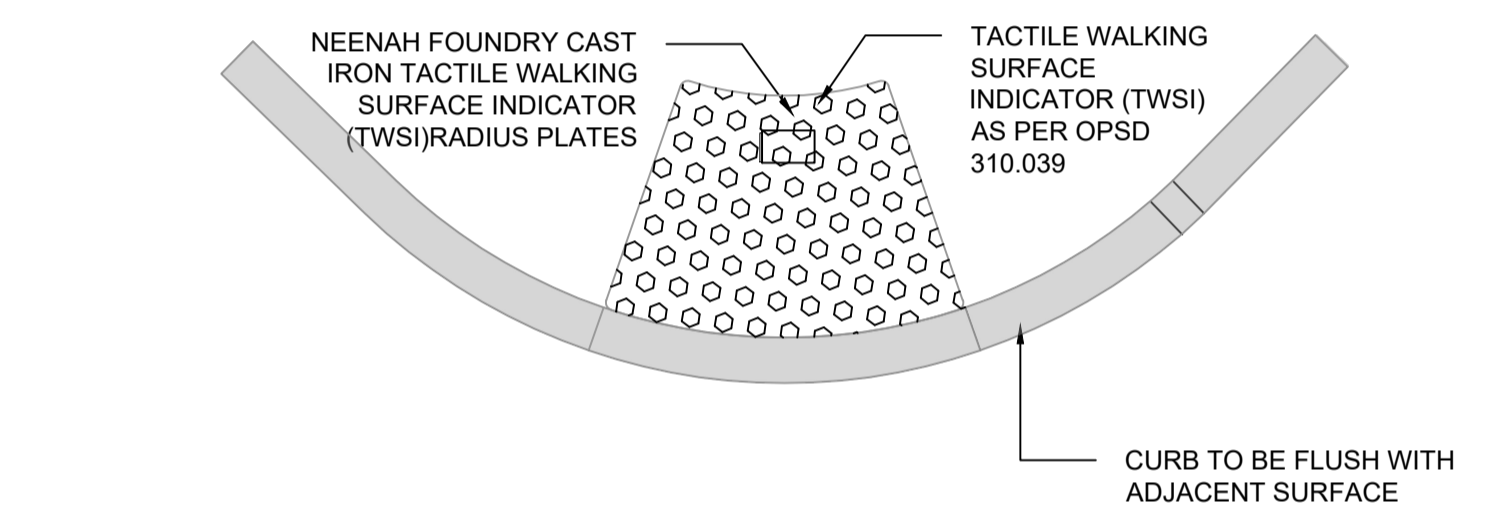
THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
LANDSCAPE DETAILS

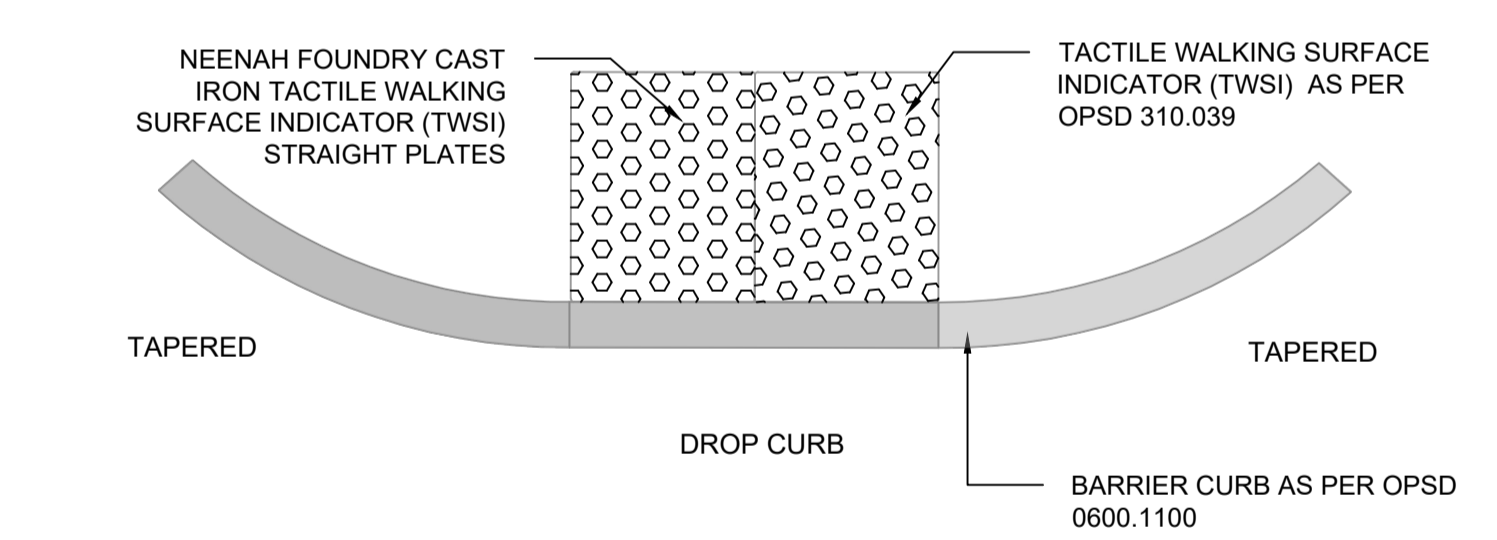
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| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T-1160-2021 | L-104 | |



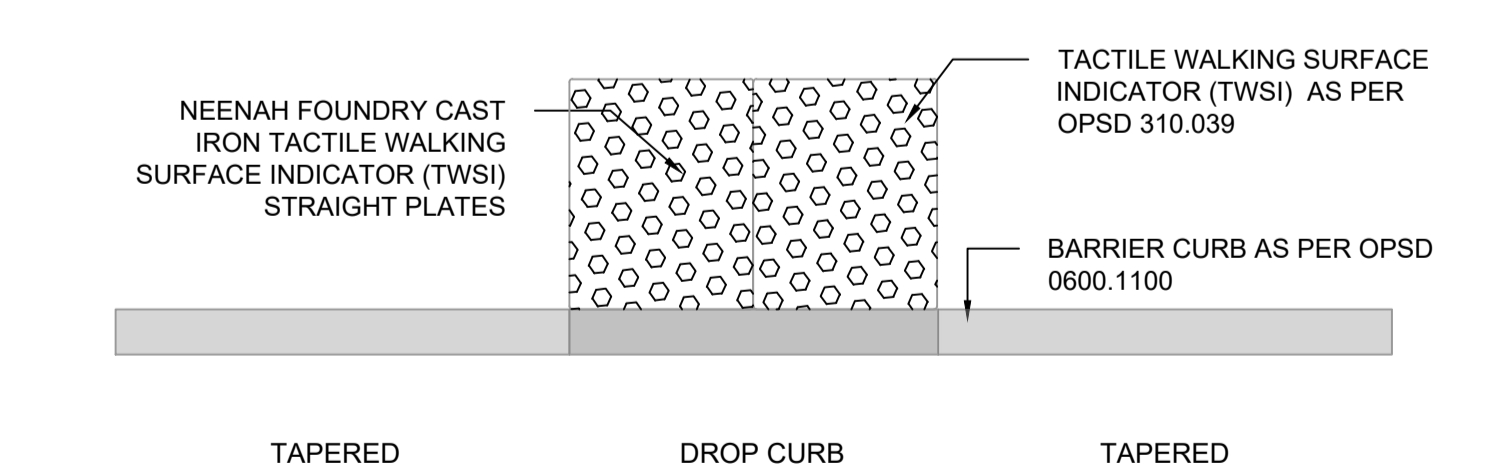
2 BIKE RACK ON CIP PAD
L-104 SCALE 1:20



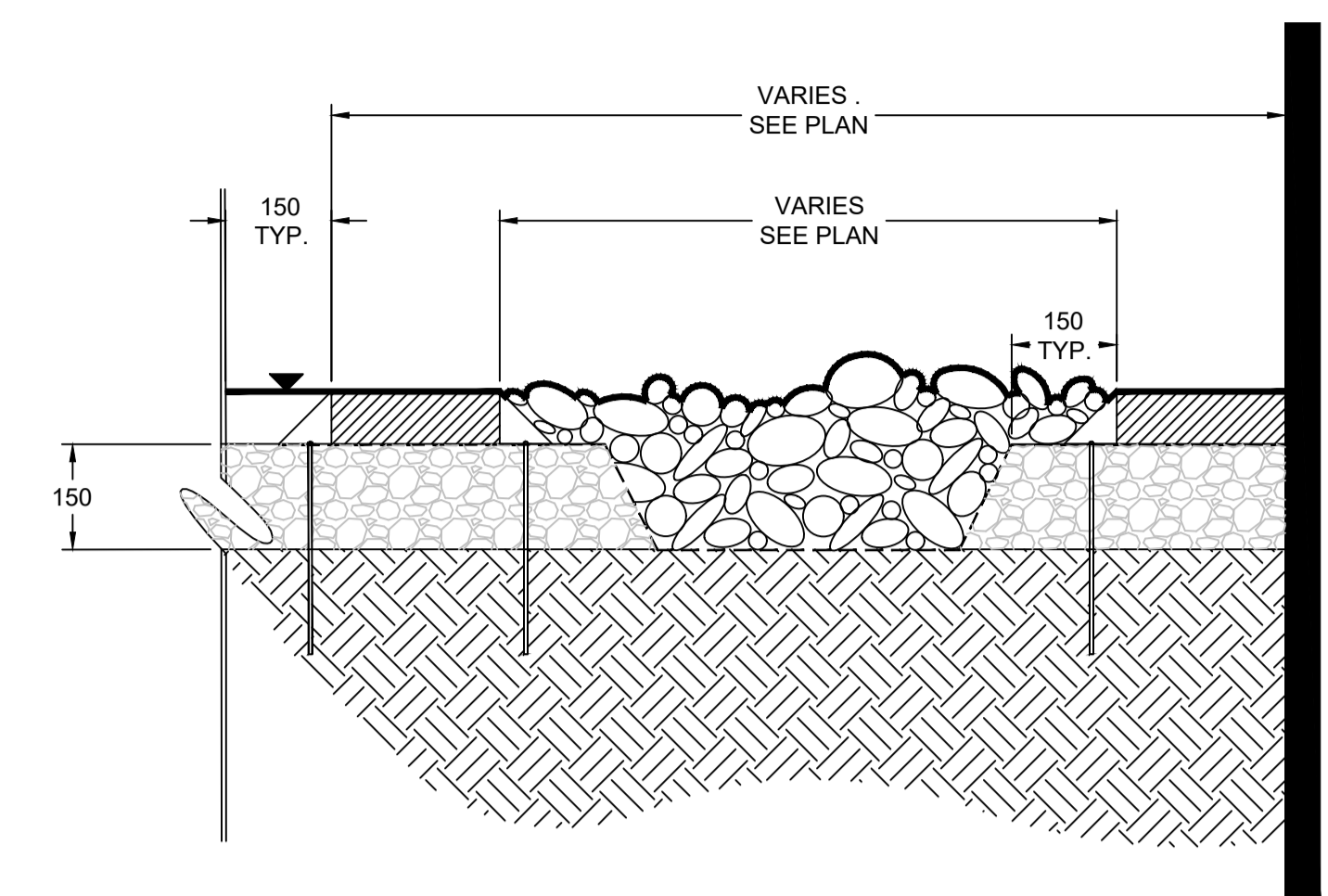
7 TACTILE WALKING SURFACE INDICATOR
L-104 SCALE 1:25



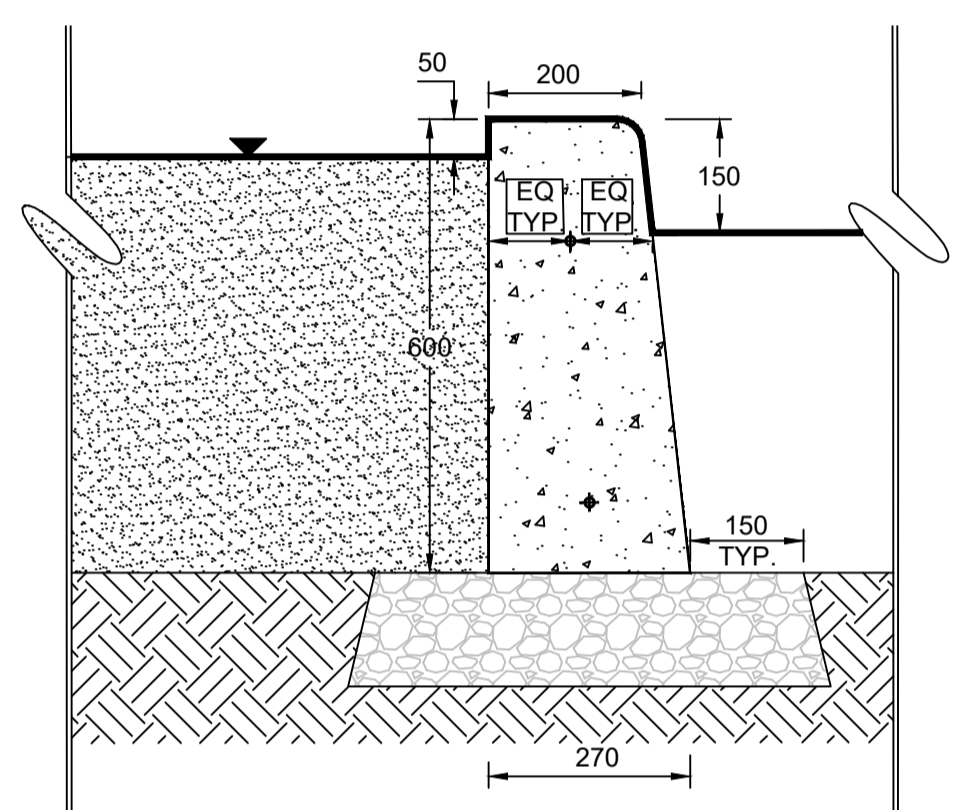
8 TACTILE WALKING SURFACE INDICATOR
L-104 SCALE 1:25



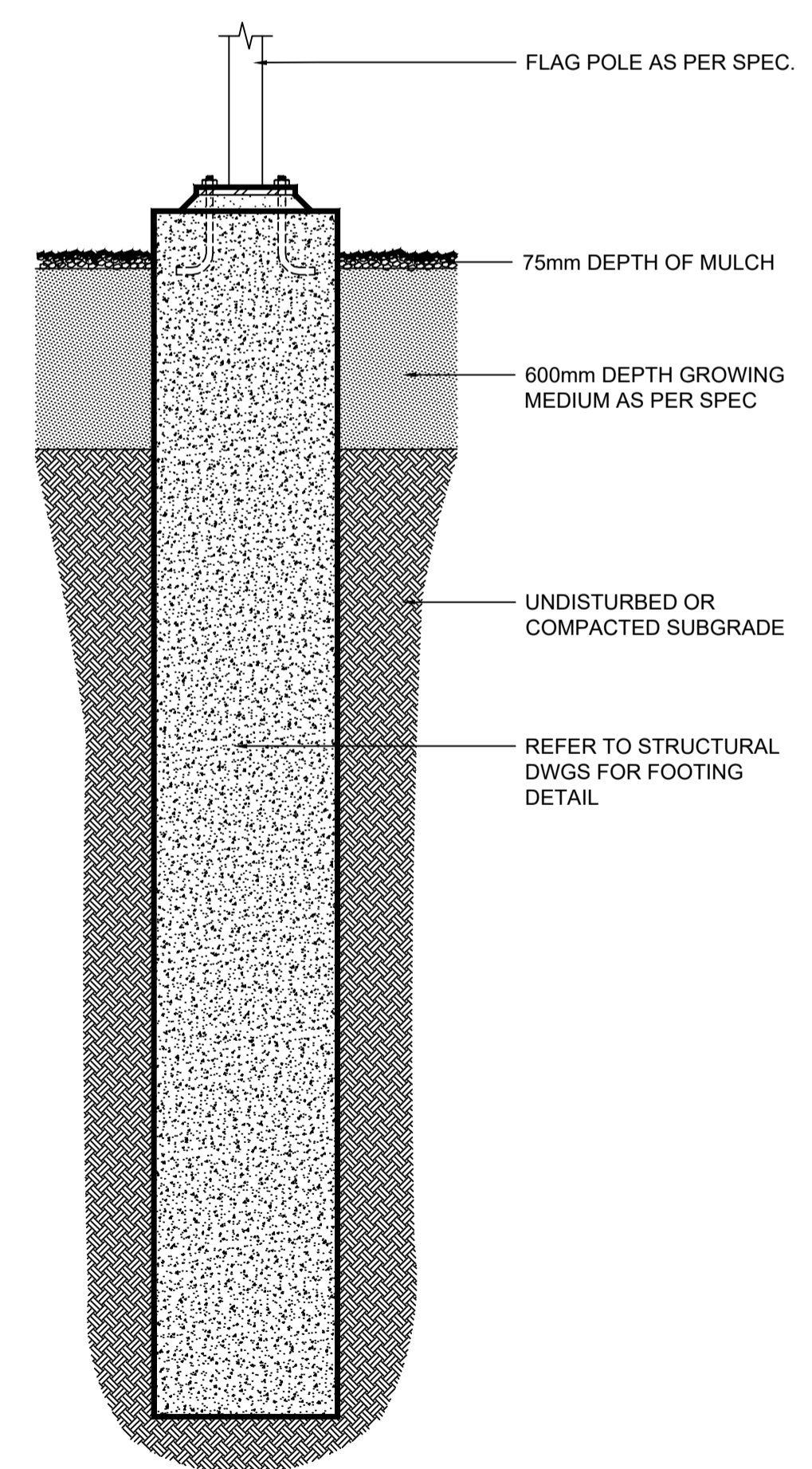
9 TACTILE WALKING SURFACE INDICATOR
L-104 SCALE 1:25



1 DRIP STRIP
L-104 SCALE 1:10

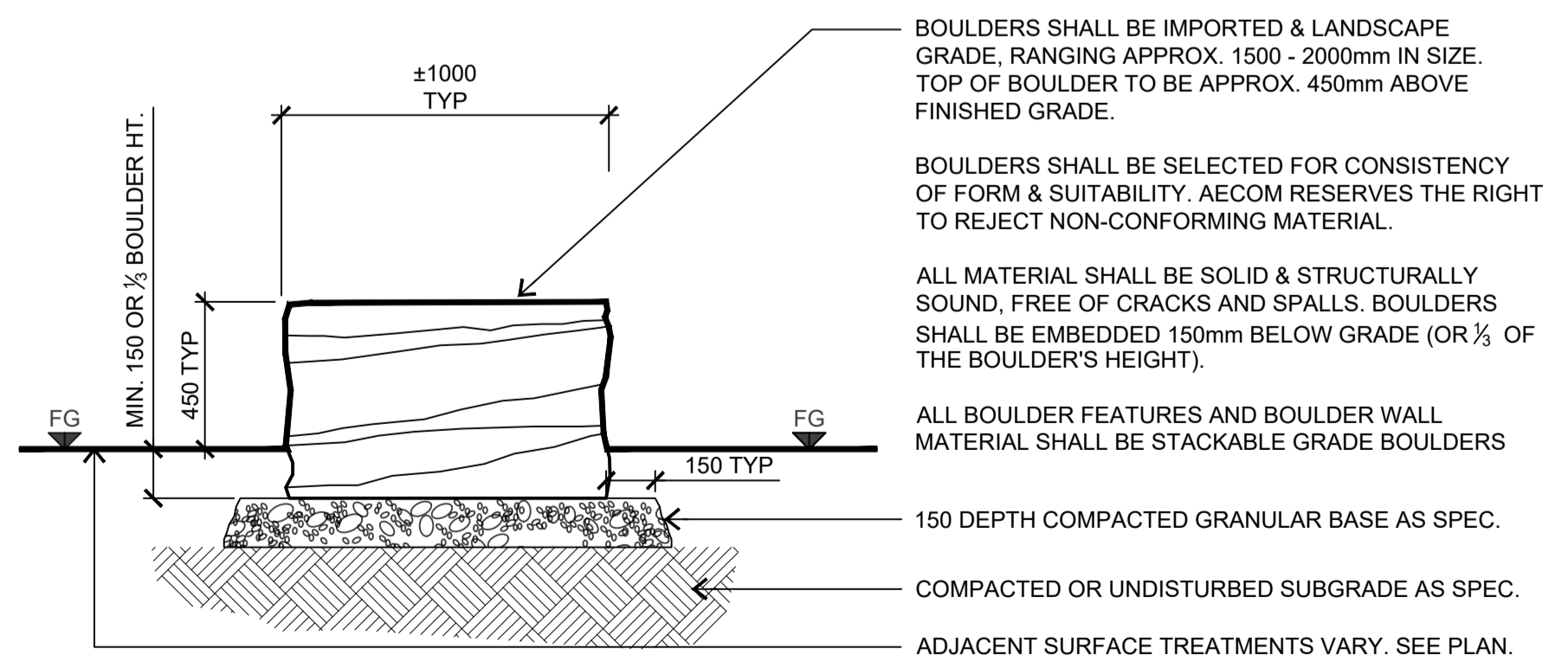


3 LANDSCAPE CURB
L-104 SCALE 1:10



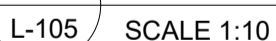
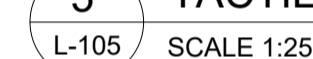
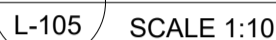
6 FLAG POLE BASE
L-104 SCALE 1:20

4 PRECAST PAVERS
L-104 SCALE 1:10



5 LANDSCAPE BOULDER
L-104 SCALE 1:20

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



1890 Fifth Concession Rd

HWY 7

407

BROCK RD

SIDELINE 16 RD

PROJECT SITE

CONCESSION RD 5

WHITEVALE RD

BROCK RD

SIDELINE 16 RD

GREENWOOD CONSERVATION AREA

KEY PLAN

PRIME CONSULTANT

| | | | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. L-105 | SHEET NO. |

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ABBREVIATIONS

A

AT ASPHALT IMPREGNATED FIBREBOARD
A.F.F. ABOVE FINISHED FLOOR
A.C.T. ACUSTIC TILE CEILING
ALUM. ALUMINUM
APPROX. APPROXIMATE
A.C.W.F.D. ACUSTIC CORE WOOD FLUSH DOOR

B

BLOCKING BLOCKING
BD. BOARD
BOTT. BOTTOM
B.E.W. BOTTOM EACH WAY
B.L.L. BOTTOM LOWER LAYER
BTN. BETWEEN
B.U.L. BOTTOM UPPER LAYER
BLDG. BUILDING
BU STEEL BUILT-UP (TO OWSJ)
BP BASE PLATE

C

CB. CATCH BASIN
c/c CENTRE TO CENTRE
CLOS. CLOSURE
COL. COLUMN
c/w COMPLETE WITH
CONC. CONCRETE
CONST. CONSTRUCTION
CONT. CONTINUOUS
CO-ORD. CO-ORDINATE
CJ. CONTROL JOINT
CRS. COURSE

D

DIA. DIAMETER
DIM. DIMENSION
DCBHM DOUBLE CATCH BASIN MANHOLE
DN. DOWN
DWG. DRAWING
DF DRINKING FOUNTAIN

E

EA. EACH
E.F. EACH FACE
E.W. EACH WAY
ELEC. ELECTRICAL
ELEV. ELEVATION
EQ. EQUAL
EQUIP. EQUIPMENT
EX. EXISTING
EXT. EXTERIOR

F

FIN. FINISH/FINISHED
F.E. FIRE EXTINGUISHER
F.R.R. FIRE-RESISTANCE RATING
F.S. FIRE SEPARATION
FLR. FLOOR
F.D. FLOOR DRAIN
FND. FOUNDATION

G

G1S GOOD ONE SIDE
G2S GOOD TWO SIDES
GALV. GALVANIZED
GRAN. GRANULAR
GYP. GYPSUM
GWB GYPSUM WALL BOARD

H

H.D. HEAVY DUTY
H.M.D. HOLLOW METAL DOOR
HORIZ. HORIZONTAL
H.E.F. HORIZONTAL EACH FACE
H.I.F. HORIZONTAL INSIDE FACE
H.O.F. HORIZONTAL OUTSIDE FACE
HR. HOUR
HSS HOLLOW STEEL SECTION

I

INCL. INCLUDED
I.F. INSIDE FACE
INSUL. INSULATION

J

JAN. JANITOR

L

L.C.C. LEAD COATED COPPER

M

MH. MANHOLE
MANUF. MANUFACTURED
MCJ. MASONRY CONTROL JOINT
M.O. MASONRY OPENING
MAX. MAXIMUM
MECH. MECHANICAL
MTD. MOUNTED
MEMB. MEMBRANE
MIRR. MIRROR

N

NBC NATIONAL BUILDING CODE
N.I.C. NOT IN CONTRACT
N.T.S. NOT TO SCALE
No. NUMBER

O

O.C. ON CENTRE
OBC ONTARIO BUILDING CODE
OSB ORIENTED STRAND BOARD
O.D. OUTSIDE DIAMETER
O.F. OUTSIDE FACE
OWSJ OPEN WEB STEEL JOIST

P

PED. PEDESTAL
PLAM. PLASTIC LAMINATE
PLYWD. PLYWOOD
POLY. POLYETHYLENE
PREFIN. PREFINISHED
P.T. PRESSURE TREATED
PTD. PAINTED
P.SF. PRESSED STEEL FRAME

Q

Q.T. QUARRY TILE

R

RAD. RADIUS
R.W.L. RAIN WATER LEADER
REIN. REINFORCED/REINFORCING
REQ'D. REQUIRED
REQTS. REQUIREMENTS
R.D. ROOF DRAIN
RM. ROOM
R.O. ROUGH OPENING

S

SN. SANITARY
SAV CUT SAW CUT
SEP. SEPARATION
SH. SHELF/SHELVES
SHT. SHEET
SIM. SIMILAR
SPEC. SPECIFICATION
SPF SPRUCE PINE FIR
SQ FT. SQUARE FEET
S.S. STAINLESS STEEL
STL. STEEL
SF. STEP FOOTING
STOR. STORAGE
STM. STORM
STRUCT. STRUCTURAL
SUSP. SUSPENDED
T. TIE JOIST
T.L.L. TOP LOWER LAYER
T.O. TOP OF
T.U.L. TOP UPPER LAYER
TYP. TYPICAL

U

UG UNDERGROUND
U/S UNDERSIDE OF
U.N.O. UNLESS NOTED OTHERWISE

V

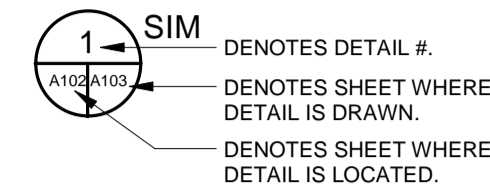
V.B. VAPOUR BARRIER
VEST. VESTIBULE
VERT. VERTICAL
V.E.F. VERTICAL EACH FACE
V.I.F. VERTICAL INSIDE FACE
V.O.F. VERTICAL OUTSIDE FACE
VCT. VINYL COMPOSITE TILE

W

WR. WASHROOM
W.V. WATER VALVE
W.W.M. WLEDED WIRE MESH
W. WITH
W.D. WOOD DOOR

NOTE: SHEET NUMBERS SHOWN REFER TO ARCHITECTURAL DRAWINGS UNLESS INDICATED OTHERWISE.

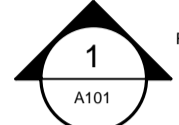
Denotes: Detail Title



Denotes: Building Section



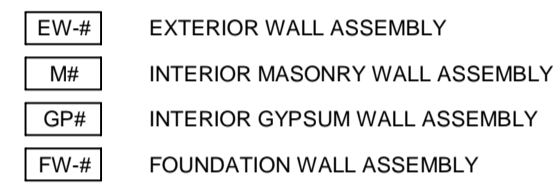
Denotes: Wall Section



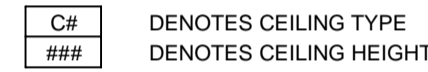
Denotes: Detail



Denotes: Wall/Partition Assembly



Denotes: Ceiling Type



Denotes: Door Number



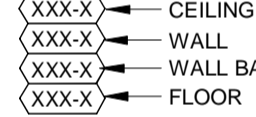
Denotes: Room Name and Number



Denotes: Window Number



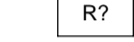
Denotes: Room Finishes



Denotes: Match Line



Denotes: Roof Assembly



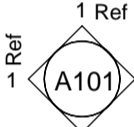
Denotes: Floor Assembly



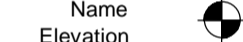
Denotes: Construction Keynote



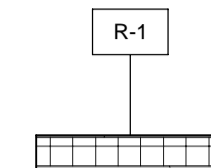
Denotes: Interior Elevations



Denotes: Levels and Elevations



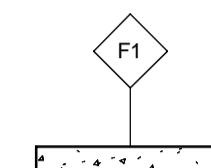
ROOF ASSEMBLY SCHEDULE



MAIN ROOF ASSEMBLY

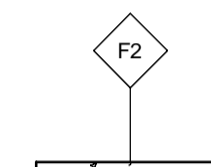
- 2-PLY MODIFIED BITUMEN ROOF MEMBRANE
- LOCALLY SLOPED ROOF CRICKETS WHERE SHOWN
- 13 FIBREGLASS FACED GYPSUM EXTERIOR SHEATHING
- 150 POLY ISOCYANURATE INSULATION (MIN. RSI-6.2)
- VAPOUR BARRIER
- 13 GLASS FIBRE REINFORCED GYPSUM EXTERIOR SHEATHING
- 38 METAL ROOF DECK
- SLOPED STEEL STRUCTURE BELOW SEE STRUCTURAL DRAWINGS

FLOOR ASSEMBLY SCHEDULE



OFFICE SLAB ON GRADE

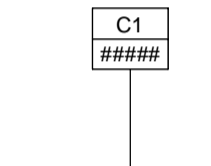
- 125 CAST-IN-PLACE CONCRETE
- 75 RIGID INSULATION (MIN. RSI-2.8)
- 200 CLEAR 19 CRUSHED STONE BASE LAYER (REFER TO GEOTECHNICAL)



GARAGE BAY SLAB ON GRADE

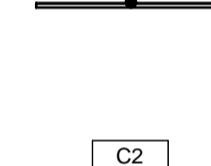
- 175 CAST-IN-PLACE CONCRETE
- 75 RIGID INSULATION (MIN. RSI-2.8)
- 200 CLEAR 19 CRUSHED STONE BASE LAYER (REFER TO GEOTECHNICAL)

CEILING ASSEMBLY SCHEDULE



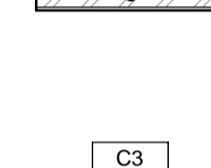
ACOUSTIC CEILING TILE

- 610x610 ACOUSTIC CEILING TILE ON INVERTED TEE SUPPORT GRID



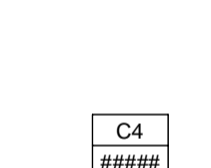
SUSPENDED LINEAR WOOD FEATURE

- 16 PREFINISHED WOOD PATTERN SIDING
- 38 STEEL FRAMING @ MAX 610 O.C.



SUSPENDED GYPSUM BOARD

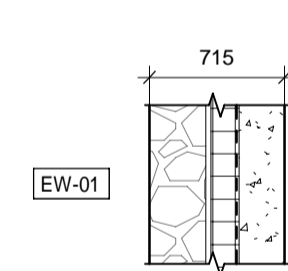
- 16 GYPSUM BOARD FINISH (PAINTED)
- PROVIDE MOISTURE-RESISTANT GYPSUM BOARD OVER WET AREAS
- 22 HAT CHANNELS
- 38 STEEL STUD FRAMING @ 610 O.C.



SUSPENDED LINEAR WOOD FEATURE

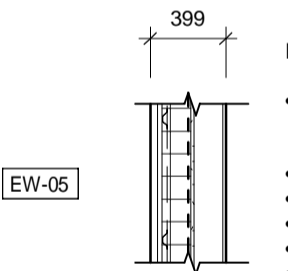
- 16 WOOD SLAT FINISH
- 38 STEEL FRAMING @ MAX 610 O.C.

WALL ASSEMBLY SCHEDULE



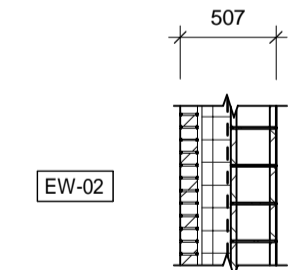
EXTERIOR FEATURE WALL

- 300 GABION BASKET CLADDING
- 25 AIR SPACE
- 152 SEMI-RIGID INSULATION (MIN RSI-4.1)
- AIR / VAPOUR BARRIER
- 16 GLASS FIBRE REINFORCED GYPSUM BOARD SHEATHING
- 152 STEEL STUDS @ 610 O.C. MAX
- 16 GYPSUM BOARD FINISH



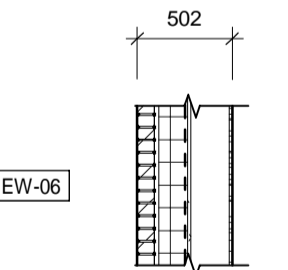
EXTERIOR METAL SIDING WALL

- 38 PREFINISHED VERTICAL METAL SIDING ON 25 HORIZ. GIRT + 150 VERT. THERMALLY BROKEN CLIPS (SEE ELEVATIONS FOR COLOUR)
- 25 AIR SPACE
- 152 SEMI-RIGID INSULATION (MIN RSI-4.1)
- AIR / VAPOUR BARRIER
- 16 GLASS FIBRE REINFORCED GYPSUM BOARD SHEATHING
- 152 STEEL STUDS @ 610 O.C. MAX
- 16 GYPSUM BOARD FINISH



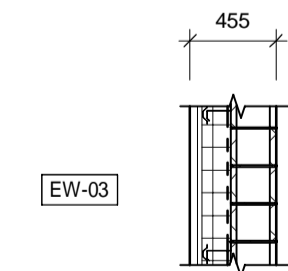
EXTERIOR BRICK VENEER WALL

- 90 BRICK VENEER (SEE ELEVATIONS FOR COLOUR)
- 25 AIR SPACE
- 152 SEMI-RIGID INSULATION (MIN RSI-4.1)
- AIR / VAPOUR BARRIER
- 240 CONCRETE MASONRY BLOCK (SEE STRUCTURAL FOR REINFORCING REQUIREMENTS)



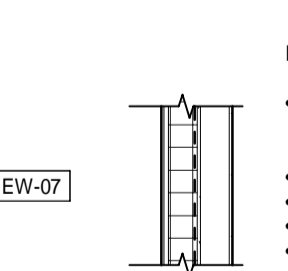
EXTERIOR BRICK VENEER WALL

- 90 BRICK VENEER (SEE ELEVATIONS FOR COLOUR)
- 25 AIR SPACE
- 152 SEMI-RIGID INSULATION (MIN RSI-4.1)
- AIR / VAPOUR BARRIER
- 16 GLASS FIBRE REINFORCED GYPSUM BOARD SHEATHING
- 203 STEEL STUDS @ 610 O.C. MAX
- 16 GYPSUM BOARD FINISH



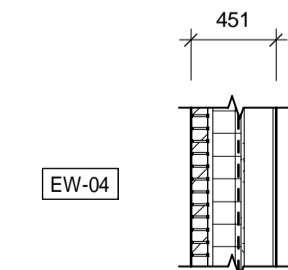
EXTERIOR METAL SIDING WALL

- 38 PREFINISHED VERTICAL METAL SIDING ON 25 HORIZ. GIRT + 150 VERT. THERMALLY BROKEN CLIPS (SEE ELEVATIONS FOR COLOUR)
- 25 AIR SPACE
- 152 SEMI-RIGID INSULATION (MIN RSI-4.1)
- AIR / VAPOUR BARRIER
- 240 CONCRETE MASONRY BLOCK (SEE STRUCTURAL FOR REINFORCING REQUIREMENTS)



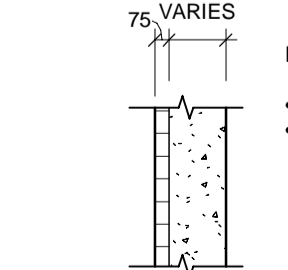
EXTERIOR FAUX-WOOD FEATURE WALL

- 22 PREFINISHED VERTICAL WOOD PATTERN SIDING ON 25 HORIZ. GIRT + 150 VERT. THERMALLY BROKEN CLIPS (SEE ELEVATIONS FOR COLOUR)
- 25 AIR SPACE
- 152 SEMI-RIGID INSULATION (MIN RSI-4.1)
- AIR / VAPOUR BARRIER
- 16 GLASS FIBRE REINFORCED GYPSUM BOARD SHEATHING
- 152 STEEL STUDS @ 610 O.C. MAX
- 16 GYPSUM BOARD FINISH



EXTERIOR BRICK VENEER WALL

- 90 BRICK VENEER (SEE ELEVATIONS FOR COLOUR)
- 25 AIR SPACE
- 152 SEMI-RIGID INSULATION (MIN RSI-4.1)
- AIR / VAPOUR BARRIER
- 16 GLASS FIBRE REINFORCED GYPSUM BOARD SHEATHING
- 152 STEEL STUDS @ 610 O.C. MAX
- 16 GYPSUM BOARD FINISH



INSULATED EXTERIOR FOUNDATION WALL

- 75 RIGID INSULATION (MIN RSI-2.6)
- CAST IN PLACE CONCRETE WALL (SEE STRUCTURAL FOR REINFORCING REQUIREMENTS)

INTERIOR GYPSUM BOARD PARTITION

- WHERE FIRE RATED, USE ULC W415, UP TO 1 HR FRR
- 16 GYPSUM BOARD FINISH
- 92 STEEL STUDS @ 406 O.C. MAX
- 16 GYPSUM BOARD FINISH

GP32a - GYPSUM BOARD ONE SIDE ONLY

GP32b - STUD ONLY

INTERIOR GYPSUM BOARD PARTITION

- WHERE FIRE RATED, USE ULC W415, UP TO 1 HR FRR
- 16 GYPSUM BOARD FINISH
- 152 STEEL STUDS @ 406 O.C. MAX
- 16 GYPSUM BOARD FINISH

GP152a - GYPSUM BOARD ONE SIDE ONLY

INTERIOR MASONRY PARTITION

- 190 CONCRETE MASONRY UNITS (SEE STRUCTURAL FOR REINFORCING REQUIREMENTS)
- 25 AIR SPACE
- WHERE FIRE-RATED, FILL CORES AS PER CCMPA, UP TO 2.9 HR

INTERIOR MASONRY PARTITION

- 290 CONCRETE MASONRY UNITS (SEE STRUCTURAL FOR REINFORCING REQUIREMENTS)
- WHERE FIRE-RATED, FILL CORES AS PER CCMPA, UP TO 4.0 HR

FEATURE STONE WALL ASSEMBLY

- 25 THIN STONE PANEL
- THINSET TILE ADHESIVE
- 16 CEMENT BOARD
- 92 STEEL STUD @ 406 O.C. MAX
- 16 GYPSUM BOARD FINISH

FIRE RATED SHAFT WALL ASSEMBLY

- WHERE FIRE RATED, USE ULC W446, SYSTEM F, UP TO 1 HR FRR
- 16 GYPSUM BOARD FINISH
- 64 CH STUD @ 610 O.C. MAX
- 25 GYPSUM LINER PANEL

FIRE RATED SHAFT WALL ASSEMBLY

- WHERE FIRE RATED, USE ULC W446, SYSTEM C, UP TO 2 HR FRR
- 16 GYPSUM BOARD FINISH
- 16 GYPSUM BOARD FINISH
- 64 CH STUD @ 610 O.C. MAX
- 25 GYPSUM LINER PANEL

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

| NO. | DATE. | NAME | REVISIONS |
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PRIME CONSULTANT

AECOM

AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
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519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT

ONTARIO ASSOCIATION OF ARCHITECTS
2022.03.14
ROY HOWARD TURNER
LICENCE 4845

| | |
|--------------------|---------------------------------|
| DESIGN BY: JC / GG | SCALE: As Indicated |
| DRAWN BY: TH / MR | DATE: 10/08/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

| NO | DATE | NAME | REVISIONS |
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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

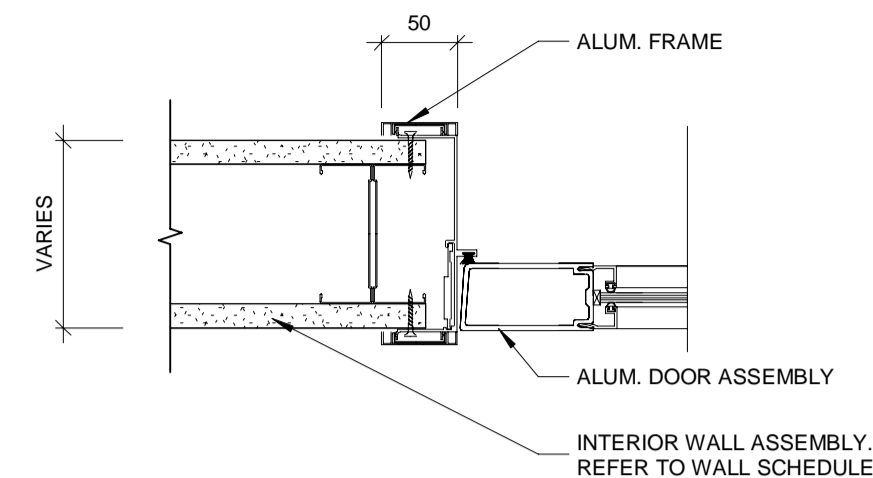
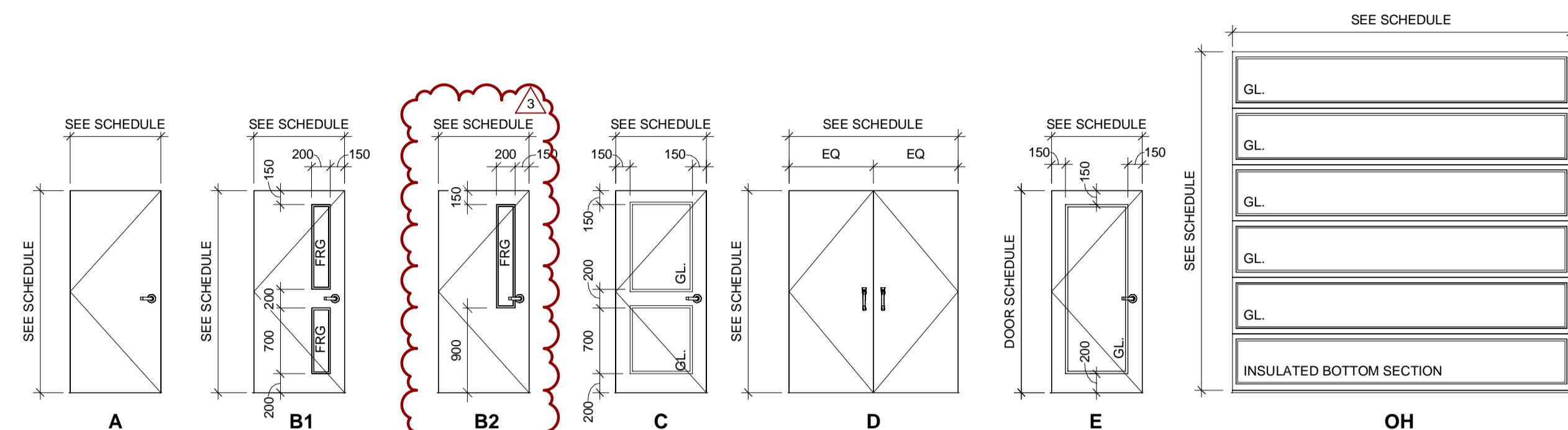
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING GENERAL NOTES

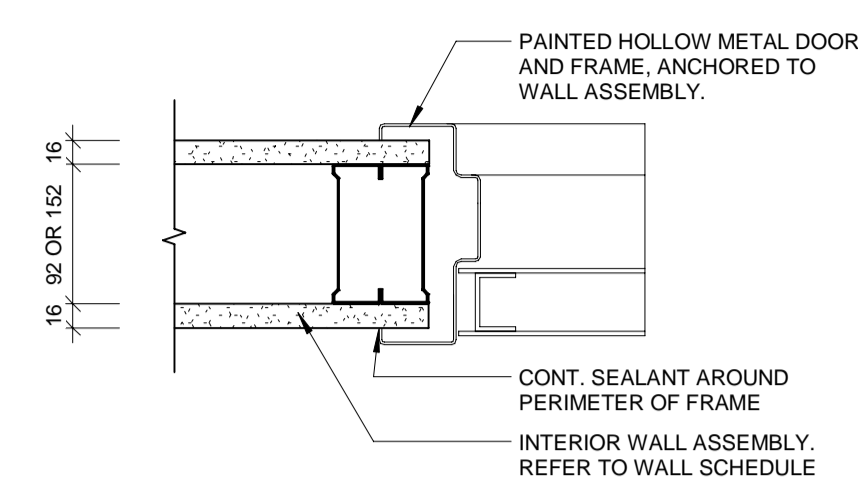
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|----------------------------|--------------------|-------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 001 | SHEET NO. |

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|--------|--|
| D.S. | -DOOR SCHEDULE |
| FRG | -FIRE RATED GLASS |
| GL | -TEMPERED GLASS |
| ANOD | -ANODIZED |
| ALUM | -ALUMINUM |
| HM, | -HOLLOW METAL |
| PAINT | -PAINTED (COORDINATE WITH ROOM FINISH PLANS) |
| S.C.W. | -SOLID CORE WOOD |
| STAIN | -CLEAR COATED STAINED |
| GALV. | -HOT DIPPED GALVANIZED |
| C.W | -CURTAIN WALL |

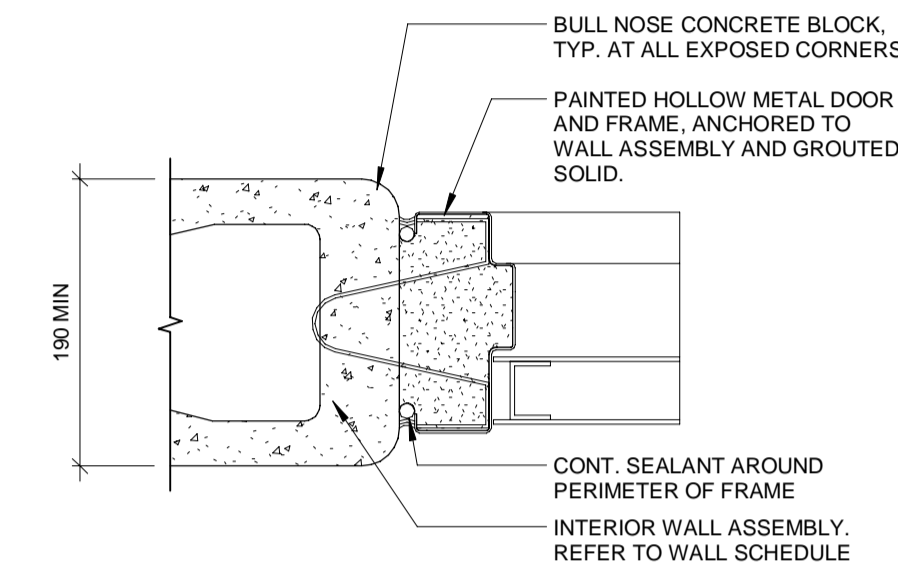
NOTE: -COORDINATE WITH MECHANICAL FOR DOOR UNDERCUTS AND TRANSFER GRILLES
-COORDINATE DOOR AND FRAME ELEVATIONS WITH DOOR SCHEDULE



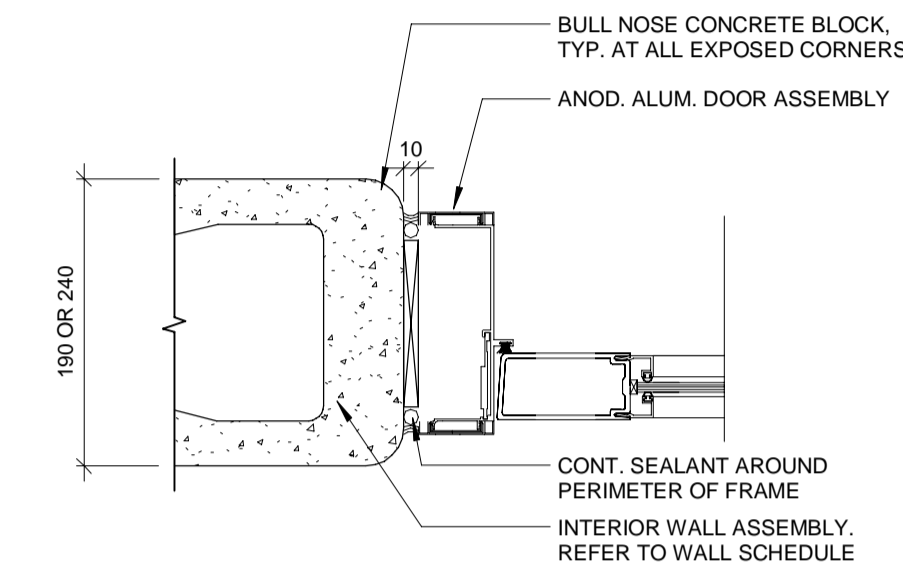
ALUM. FRAME AT GYPSUM PARTITION



H.M. FRAME AT GYPSUM PARTITION



H.M. FRAME AT CMU PARTITION



ALUM. FRAME AT CMU PARTITION





| MARK | FROM ROOM | | | TO ROOM | | | LEAF COUNT (HM, WOOD) | LEAF | | | FRAME | | | FIRE RATING | INSULATION | HARDWARE | TOUCHLESS OPERATOR | ACCESS CONTROL | COMMENTS |
|-------|-----------|--------------------|------|--------------------|------|------|-----------------------|-------|--------|-------|--------|-------|-------|-------------|------------|----------|--------------------|----------------|---|
| | NO. | NAME | EXT. | NO. | NAME | EXT. | | WIDTH | HEIGHT | MAT'L | FINISH | TYPE | MAT'L | | | | | | |
| D001 | 101 | VESTIBULE | EXT | EXTERIOR | | | 965 | 2368 | ALUM. | PAINT | E | ALUM. | PAINT | | | | | | THERMALLY BROKEN DOOR |
| D002 | 102 | CORRIDOR | 101 | VESTIBULE | | | 965 | 2568 | ALUM. | PAINT | E | ALUM. | PAINT | | | | | | THERMALLY BROKEN DOOR |
| D003 | 102 | CORRIDOR | 103 | REPORT WRITING | 1 | | 965 | 2150 | WOOD | STAIN | B2 | HM | PAINT | | | | | | |
| D004 | 102 | CORRIDOR | 125 | IT | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | | | | |
| D005 | 102A | CLOSET | 1000 | CORRIDOR | | | 1630 | 2150 | WOOD | STAIN | A | N/A | N/A | | | | | | DOUBLE-LEAF SLIDING DOOR. SEE HARDWARE SCHEDULE SPECS |
| D006 | 104 | KITCHEN | 106 | COURTYARD | | | 965 | 2540 | ALUM. | PAINT | E | ALUM. | PAINT | | | * | | | THERMALLY BROKEN DOOR, REQUEST TO EXIT |
| D007 | 107 | CORRIDOR | 106 | COURTYARD | | | 965 | 2540 | ALUM. | PAINT | E | ALUM. | PAINT | | | * | | | THERMALLY BROKEN DOOR, REQUEST TO EXIT |
| D008 | 107 | CORRIDOR | 112 | CLASSROOM | 1 | | 965 | 2150 | WOOD | STAIN | B2 | HM | PAINT | 45 | | | | | |
| D009 | 107 | CORRIDOR | 112 | CLASSROOM | 1 | | 965 | 2150 | WOOD | STAIN | B2 | HM | PAINT | 45 | | | | | |
| D010 | 107 | CORRIDOR | 113 | CLASSROOM | 1 | | 965 | 2150 | WOOD | STAIN | B2 | HM | PAINT | 45 | | | | | |
| D011 | 107 | CORRIDOR | 113 | CLASSROOM | 1 | | 965 | 2150 | WOOD | STAIN | B2 | HM | PAINT | 45 | | | | | |
| D012 | 107 | CORRIDOR | 116 | STORAGE | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | | | | |
| D013 | 107 | CORRIDOR | 119 | UNI. W/R | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | * | | | PROVIDE UNIVERSAL WASHROOM CONTROL KIT AS PER OBC |
| D014 | 107 | CORRIDOR | 122 | VESTIBULE | | | 965 | 2570 | ALUM. | PAINT | E | ALUM. | PAINT | | | * | * | | |
| D015a | 107A | CLOSET | 107 | CORRIDOR | | | 915 | 2150 | WOOD | STAIN | A | N/A | N/A | | | | | | SINGLE-LEAF SLIDING DOOR, SEE HARDWARE SCHEDULE SPECS |
| D015b | 107A | CLOSET | 107 | CORRIDOR | | | 1830 | 2150 | WOOD | STAIN | A | N/A | N/A | | | | | | DOUBLE-LEAF SLIDING DOOR, SEE HARDWARE SCHEDULE SPECS |
| D016 | 108 | OPEN OFFICE | 109 | BREAKOUT | | | 965 | 2890 | GL | - | GL | | | | | | | | DOOR TO HAVE CONTINUOUS OPAQUE 50mm STRIP 1500mm A.F.F. 3 |
| D017 | 108 | OPEN OFFICE | 110 | STORAGE | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | | | | |
| D019 | 108 | OPEN OFFICE | EXT | EXTERIOR | | | 965 | 2368 | ALUM. | PAINT | E | ALUM. | PAINT | | | * | | | THERMALLY BROKEN DOOR |
| D020 | 113 | CLASSROOM | 114 | SIM LAB | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | | | | |
| D021 | 113 | CLASSROOM | 115 | STORAGE | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | | | | |
| D022 | 114 | SIM LAB | EXT | EXTERIOR | | | 965 | 2150 | HM | PAINT | A | HM | PAINT | | | * | | | THERMALLY BROKEN DOOR |
| D023 | 117 | GENDER NEUTRAL W/R | 107 | CORRIDOR | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | | | | |
| D024 | 117 | GENDER NEUTRAL W/R | 117 | GENDER NEUTRAL W/R | 1 | | 965 | 2150 | WOOD | STAIN | A | HM | PAINT | | | | | | |
| D025 | 117 | GENDER NEUTRAL W/R | 117 | GENDER NEUTRAL W/R | 1 | | 875 | 2150 | WOOD | STAIN | A | | | | | | | | |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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| NO. | DATE. | NAME | REVISIONS | |

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| PRIME CONSULTANT | |   | |
| AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com | | SUB CONSULTANT | |
| DESIGN BY: JC / GG | | SCALE: As Indicated | |
| DRAWN BY: TH / MR | | DATE: 10/08/20 | |
| CHECKED BY: JC | | CONSULTANT PROJECT NO. 60611569 | |
| APPROVED BY: RT | | CLIENT FILE No.: 811/20 | |

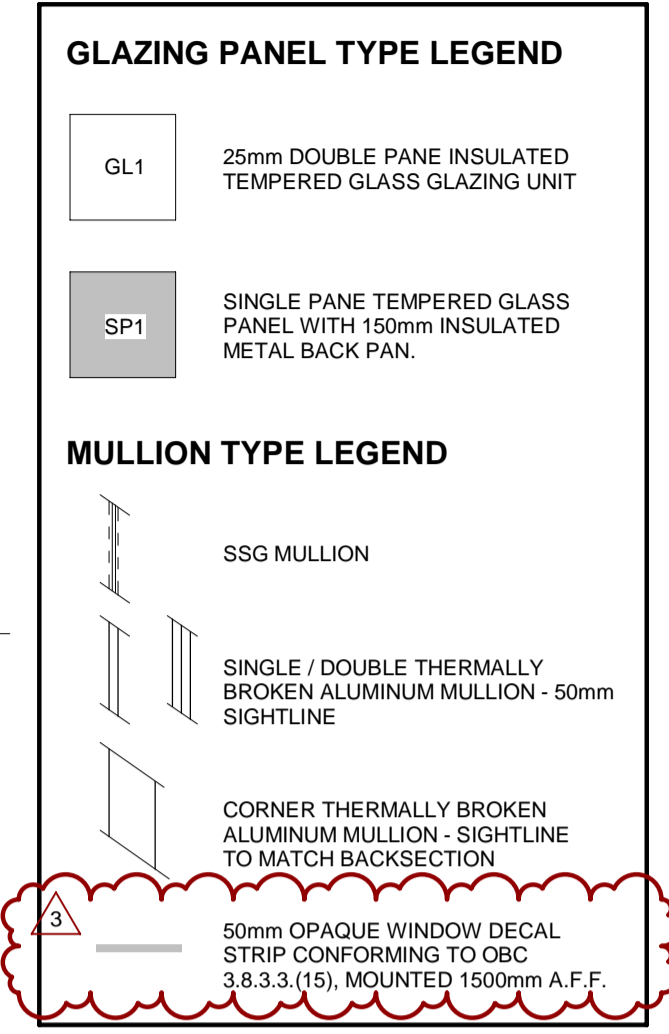
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| CONTRACT REVISIONS | | | | |
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| | 4 | 03/14/2022 | | ISSUED FOR CONSTRUCTION |
| | 3 | 10/18/21 | | ADDENDUM #1 |
| | 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| | 1 | 09/22/21 | | ISSUED FOR TENDER |
| | NO | DATE | NAME | REVISIONS |



THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING DOOR SCHEDULE

| | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 003 | SHEET NO. |



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1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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AECOM

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Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com



SUB CONSULTANT

| | |
|--------------------|---------------------------------|
| DESIGN BY: GG / JC | SCALE: 1 : 50 |
| DRAWN BY: TJH | DATE: 11/19/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

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| 4 | 03/14/2022 | | ISSUED FOR CONSTRUCTION | |
| 3 | 10/18/21 | | ADDENDUM #1 | |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS | |
| 1 | 09/22/21 | | ISSUED FOR TENDER | |
| NO | DATE | NAME | REVISIONS | |



THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING GLAZING SCHEDULE

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061 - 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 004 | SHEET NO. |



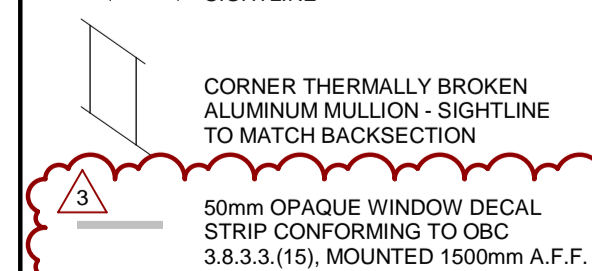
- THERMALLY BROKEN, BLACK PAINTED ALUMINUM FRAME
- EXTENDED 102mm EXTRUDED ALUMINUM MULLION CAP
- 168mm EXTRUDED ALUMINUM BACK SECTION



- THERMALLY BROKEN, BLACK PAINTED ALUMINUM FRAME
- EXTENDED 102mm EXTRUDED ALUMINUM MULLION CAP
- 168mm EXTRUDED ALUMINUM BACK SECTION



- THERMALLY BROKEN, BLACK PAINTED ALUMINUM FRAME
- EXTENDED 102mm EXTRUDED ALUMINUM MULLION CAP
- 168mm EXTRUDED ALUMINUM BACK SECTION



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| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T- 1160- 2021 | A- 005 | |

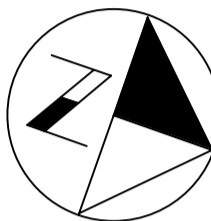
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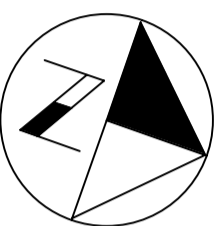
1890 Fifth Concession Rd

SITE GRAPHICS LEGEND

| SYMBOL / TAG | DESCRIPTION | LINE TYPE / GRAPHIC | DESCRIPTION |
|--------------|-----------------------------------|---------------------|--------------------------------|
| | MAIN ENTRANCE | | PROPERTY LINE |
| | MAN DOOR | | SITE SETBACK |
| | OVERHEAD DOOR | | ASHPALT AREA (COORD. w CIVIL) |
| | SITE LIGHTING (REF. TO ELEC.) | | HARD SURFACE SIDEWALK |
| | HYDRO UTILITY POLE | | FIRE ROUTE c/w CENTERLINE |
| | PAINTED TRAFFIC STOP MARKING | | NEW BUILDING AREA (PHASE 1) |
| | PAINTED TRAFFIC TURN MARKING | | FUTURE BUILDING AREA (PHASE 2) |
| | TACTILE WARNING SURFACE INDICATOR | | |

SITE DATA MATRIX

| | |
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| <div><div>SITE INFORMATION:</div><div>ROLL No.: 03000916602000</div><div>LOT DESCRIPTION: PART OF LOT 17, CONCESSION ROAD 5 (AT SIDELINE ROAD 16), PICKERING PART 10, 40R-29609 PIN 26402 - 0094</div><div>PROPERTY INFORMATION TAKEN FROM LOT 17 CONCESSION 5 LEGAL SURVEY</div></div> | <div><div>SITE STATISTICS (AREA):</div><div>OVERALL SITE AREA: 16,795.5 m² 100.0 %</div><div>PARKING / HARD SURFACE: 5,718.3 m² 34.0 %</div><div>BUILDING AREA: 1,520.4 m² 9.1 %</div><div>LANDSCAPE / GREEN SPACE: 9,556.27 m² 56.9 %</div></div> |
| <div><div>APPLICABLE ZONING & BY-LAWS:</div><div>CITY / REGION: THE CORPORATION OF THE CITY OF PICKERING</div><div>ZONING BY-LAW: 7364/14, SEATON ZONING BY-LAW</div><div>OFFICIAL PLAN: CITY OF PICKERING OFFICIAL PLAN, EDITION 8</div><div>TRAFFIC & PARKING: 6604/05</div><div>MISC.: SEATON SUSTAINABLE PLACE-MARKING GUIDELINES</div><div>ORIGINAL ZONE: LD1, LOW DENSITY, TYPE 1</div><div>EXEMPTION: PARAMEDIC STATION OPERATED BY THE REGION IS EXEMPT FROM THE LAND USE PROVISIONS IN THIS ZONE CATEGORY</div><div>APPLIED ZONE: COMMUNITY USE (CU)</div></div> | <div><div>SITE SETBACKS (MIN.):</div><div>FRONT YARD: 3.0m</div><div>SIDE YARD (INTERIOR): 1.5m</div><div>FLANKAGE YARD: 3.0M - APPLIES TO SIDELINE 16</div><div>REAR YARD SETBACK: 7.5M</div><div>MIN. LOT FRONTAGE: 30.0m WIDE</div><div>MAX. BUILDING HEIGHT: 12.5m</div></div> |
| <div></div> | <div><div>PARKING REQUIREMENTS:</div><div>EMERGENCY SERVICE FACILITY = 3.5 SPACES / 100 m² OF GFA</div><div>BUILDING AREA - 1,522 m², SINGLE STOREY = 3.5 x (1,522 m²/100 m²) = 54 SPACES REQUIRED</div><div>NO. OF SPACES REQUIRED = 54 SPACES REQUIRED</div><div>PHASE 1 PARKING PROVIDED:</div><div>VISITOR 3</div><div>DRIVE AISLE - WEST SIDE 23</div><div>DRIVE AISLE - EAST SIDE 18</div><div>DRIVERS PAD 10</div><div>TOTAL 54</div></div> |



NOTE: REFER TO CIVIL FOR ALL ASPHALT AND CURBING DETAILS

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519 650 5313 tel 519 650 3424 fax
www.aecom.com

2022.03.14
ROY HOWARD TURNER
LICENCE 4845

SUB CONSULTANT

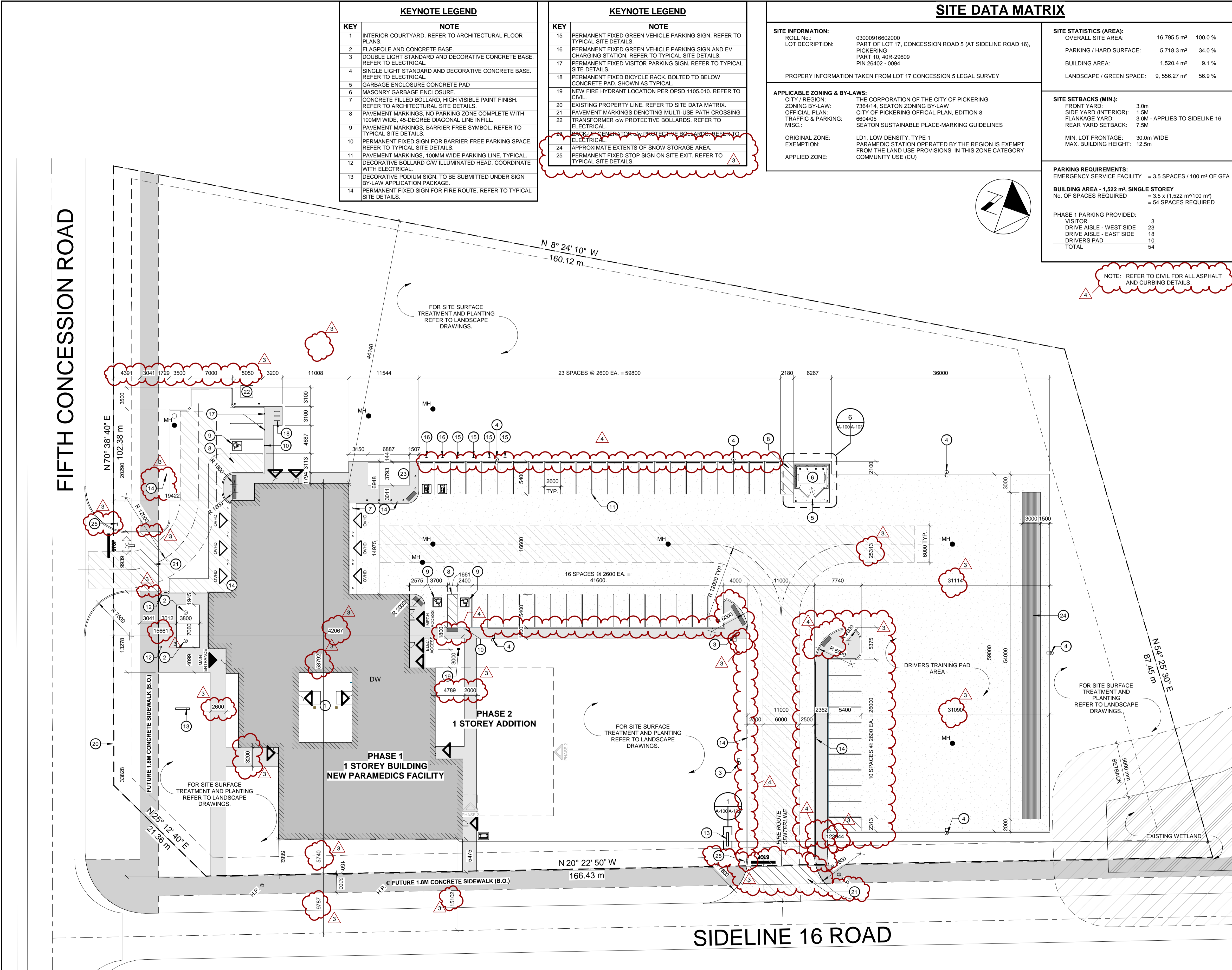
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| DESIGN BY: JC / GG | SCALE: As Indicated |
| DRAWN BY: TH / MR | DATE: 10/07/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

| NO | DATE | NAME | REVISIONS |
|----|------------|------|---------------------------|
| 5 | 03/14/2022 | | ISSUED FOR CONSTRUCTION |
| 4 | 01/20/22 | | RE- ISSUED FOR SPA |
| 3 | 10/18/21 | | ADDENDUM #1 |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

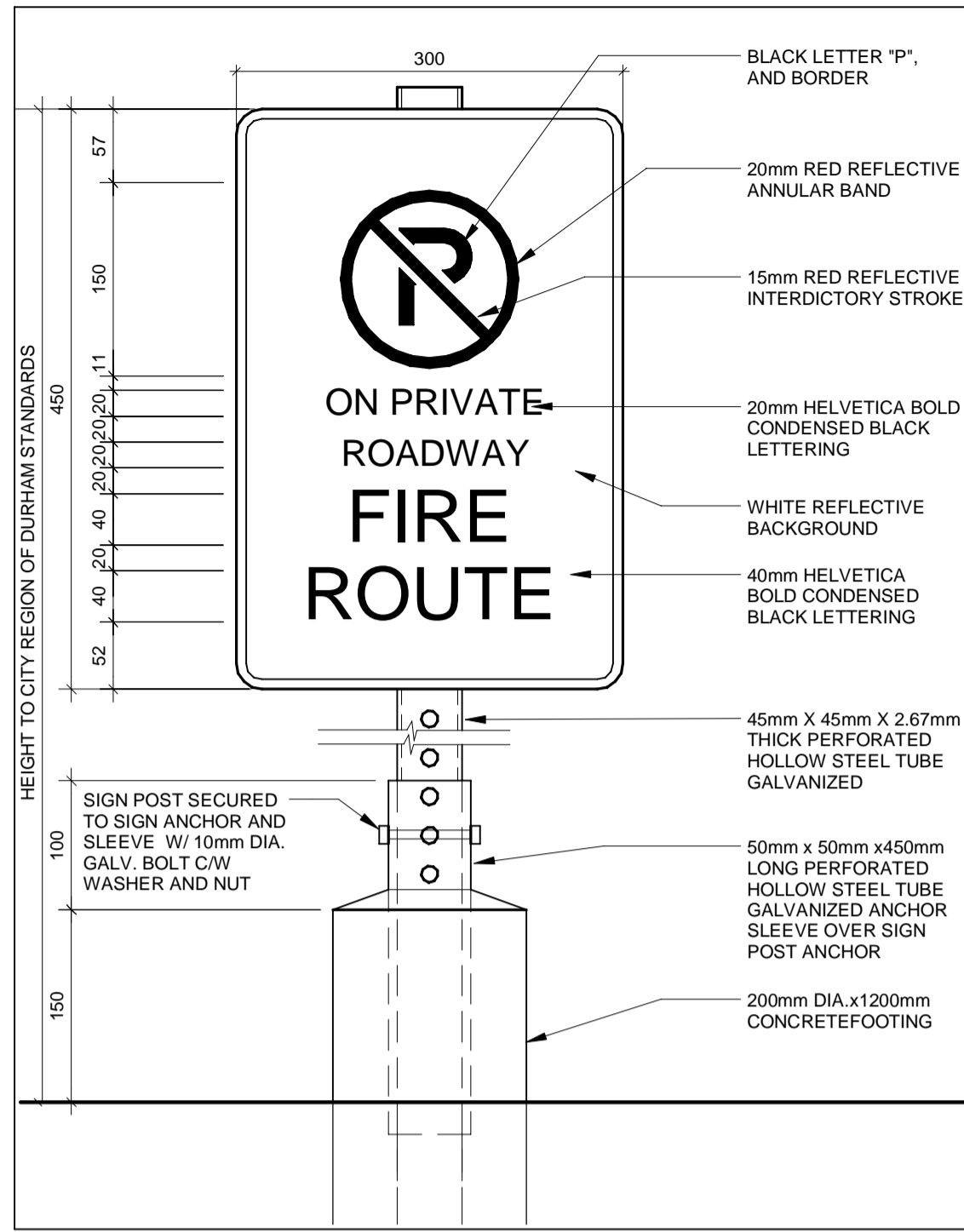
THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING SITE PLAN - PHASE 1

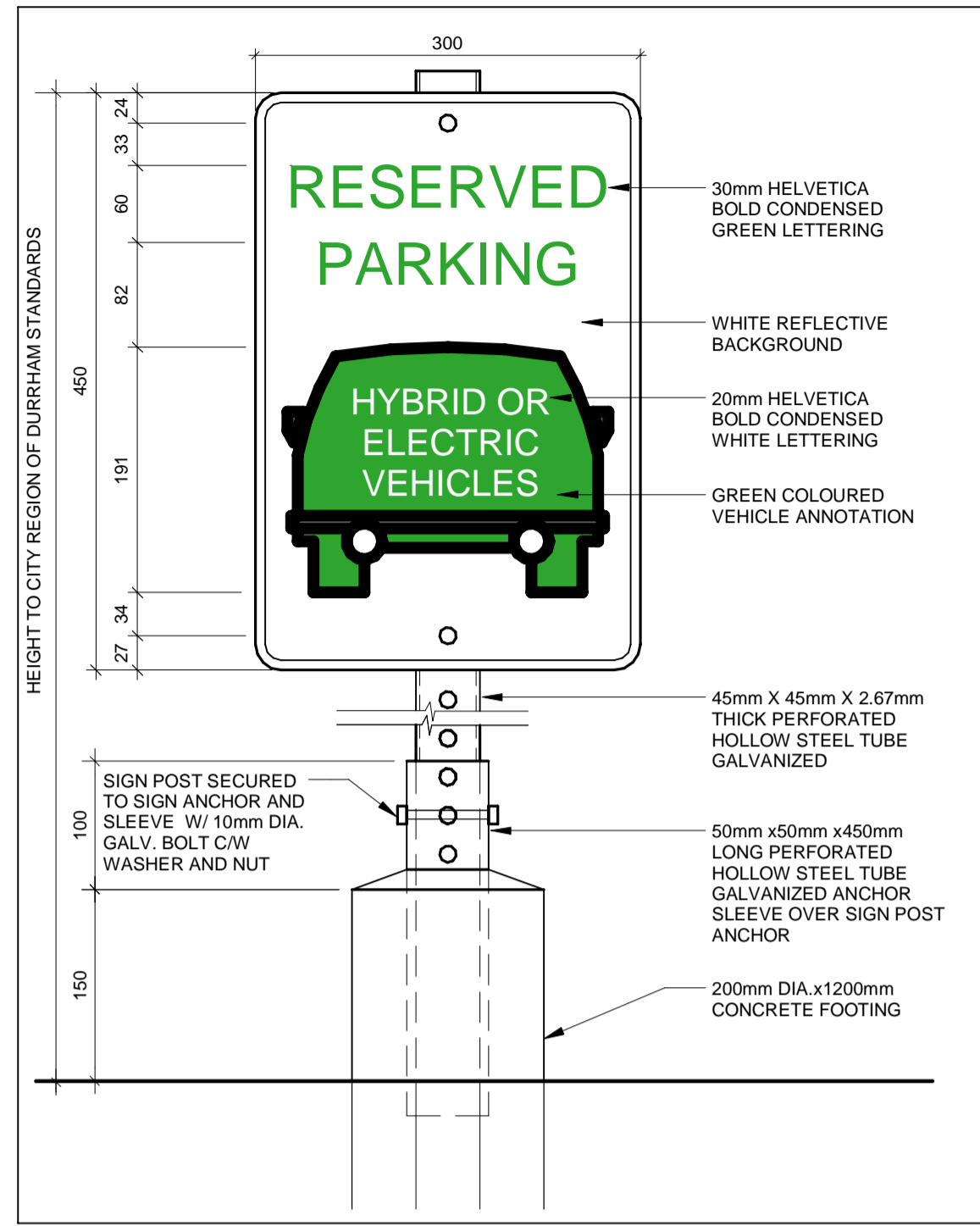
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 100 | SHEET NO. |



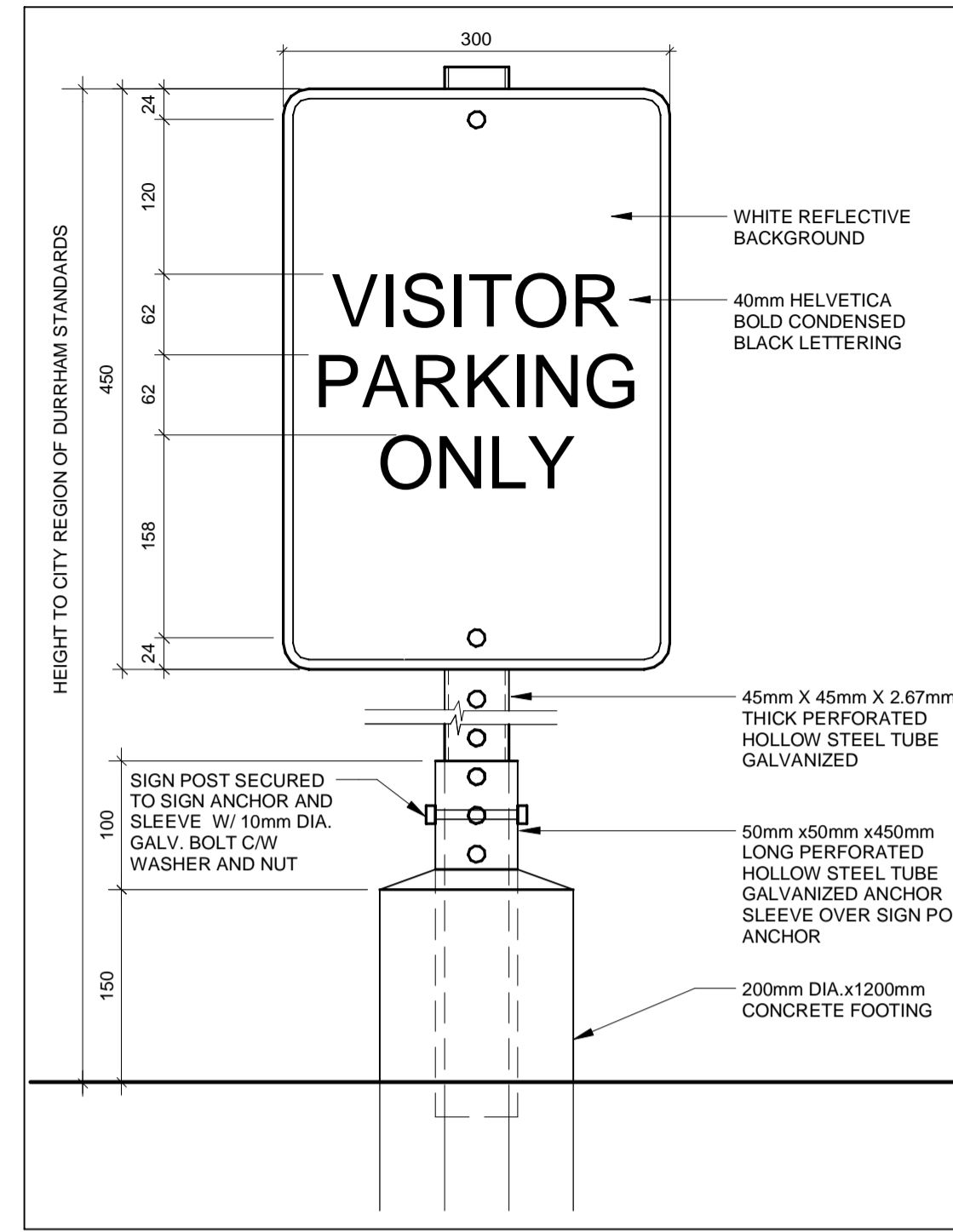
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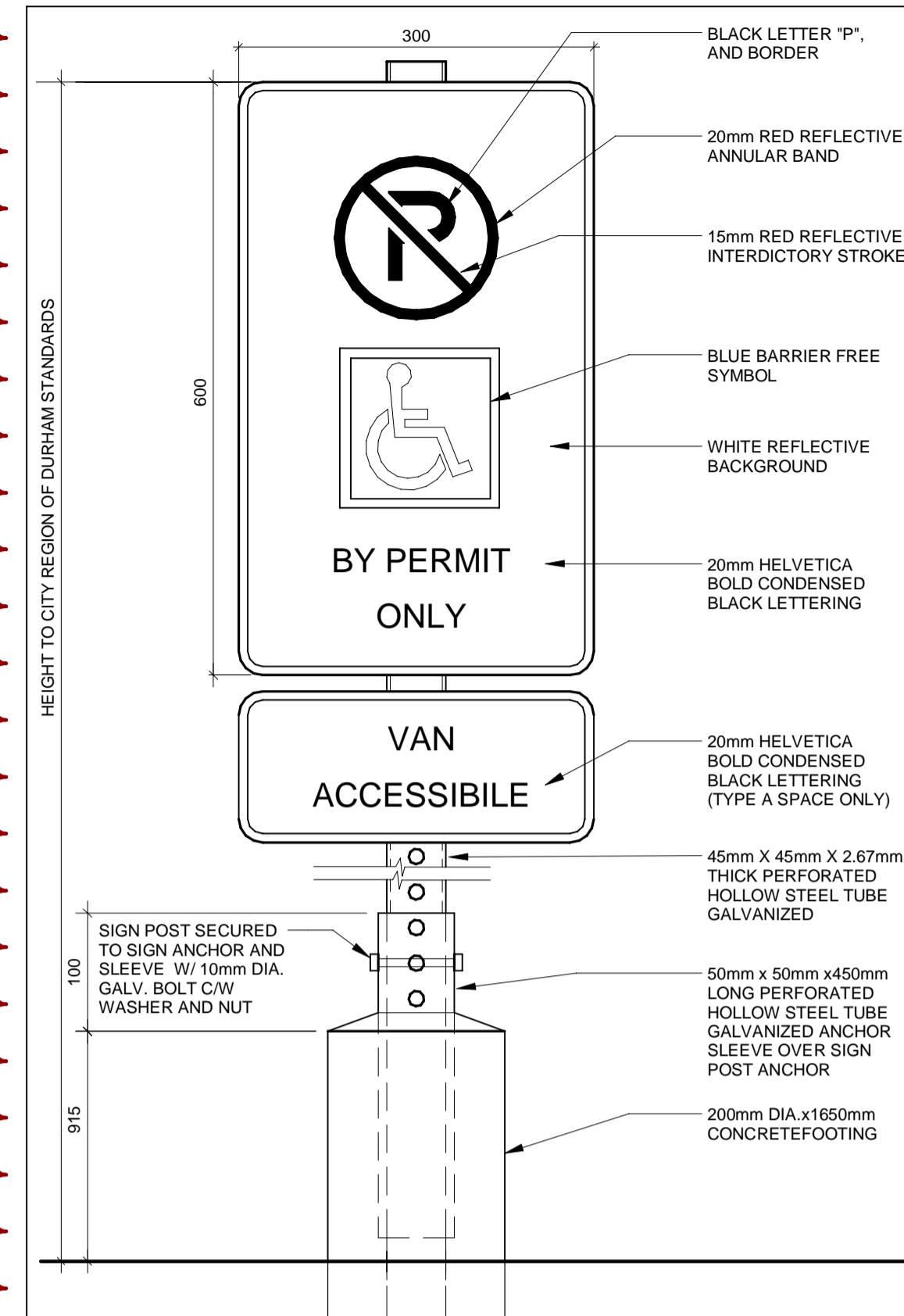
1 FIRE ROUTE SIGN DETAIL
A-101 1:5



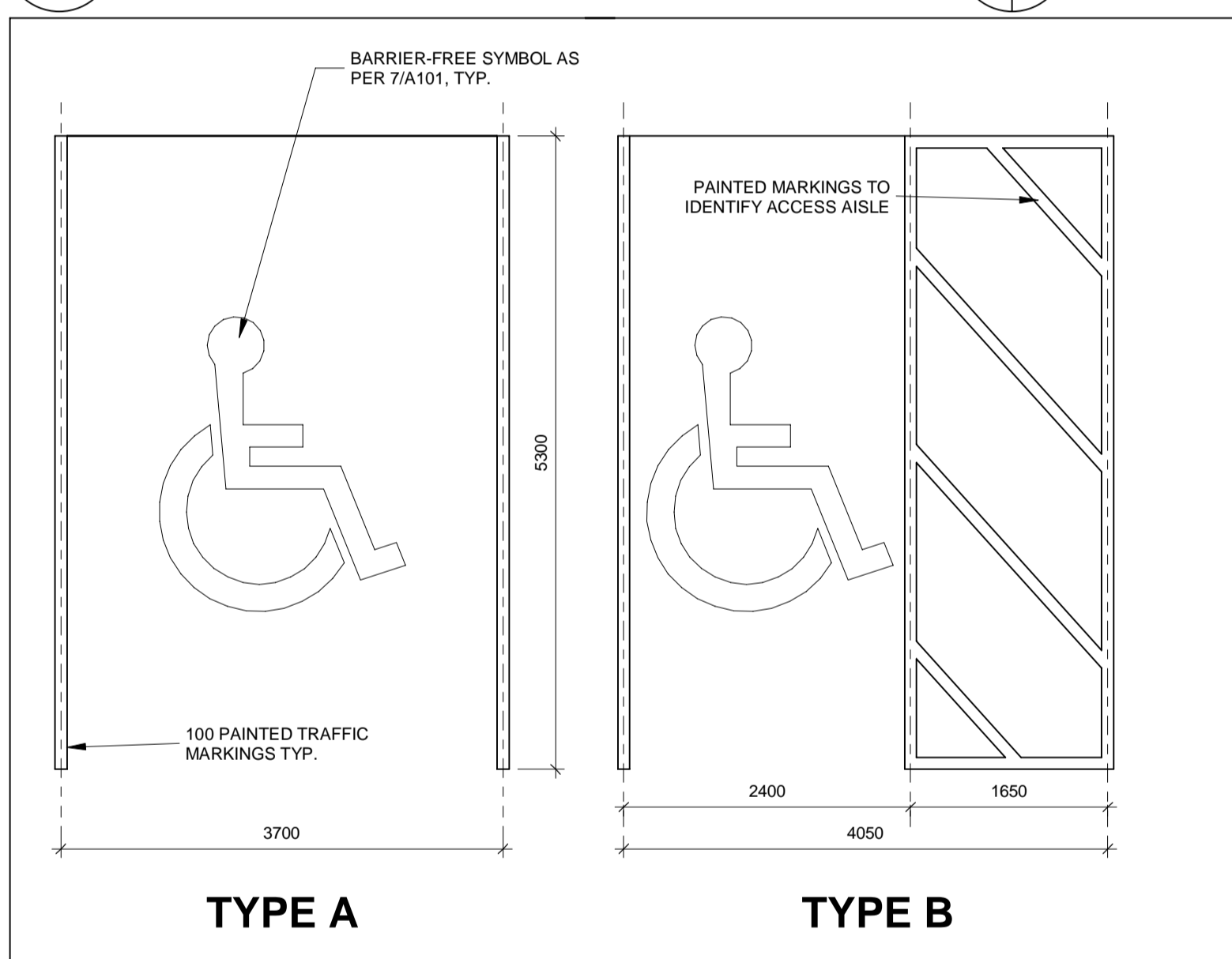
2 GREEN VEHICLE SIGN DETAIL
A-101 1:5



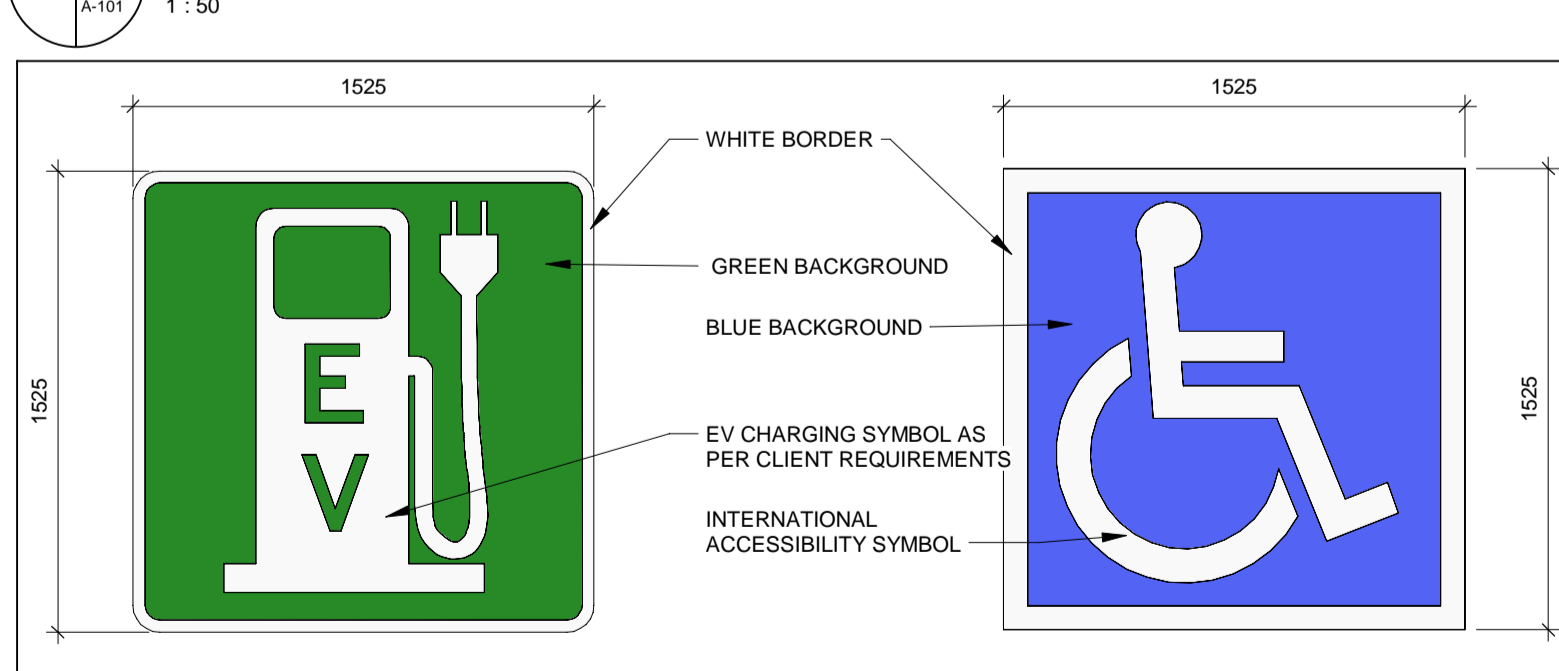
3 VISITOR PARKING
A-101 1:5



4 ACCESSIBLE PARKING VERTICAL SIGNAGE
A-101 N.T.S



5 PARKING TYP A & B
A-101 1:50



6 STOP SIGN DETAIL
A-101 1:5

TYP. PAVEMENT MARKINGS
1:25

7 TACTILE INDICATOR PLAN TYP.
A-101 1:20

PER OPSD 310.039

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1890 Fifth Concession Rd

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2022.03.14
ARCHITECTS
ROY HOWARD TURNER
LICENCE
4845

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| DESIGN BY: Designer | SCALE: As Indicated |
| DRAWN BY: Author | DATE: 12/06/17 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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DURHAM REGION

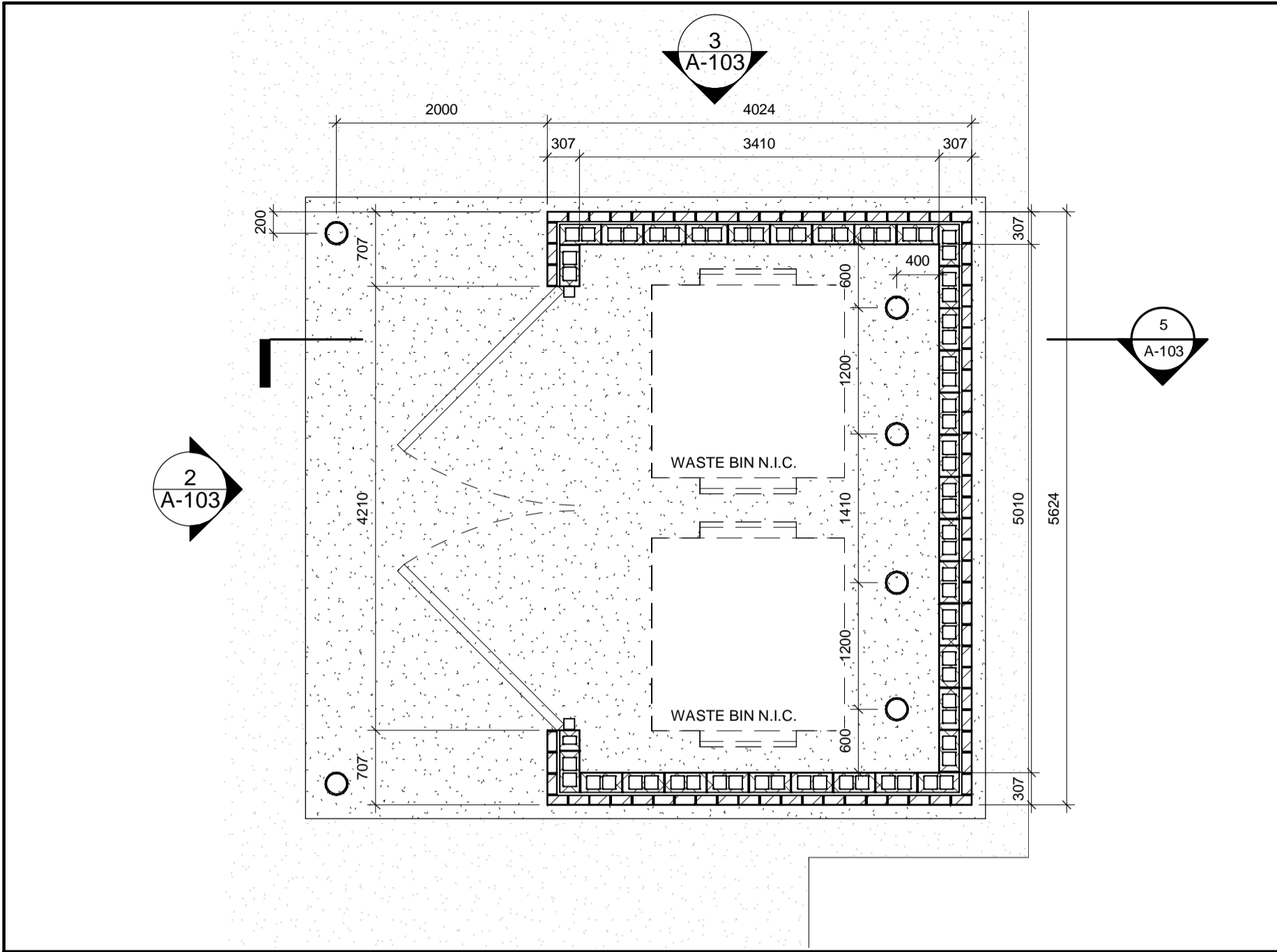
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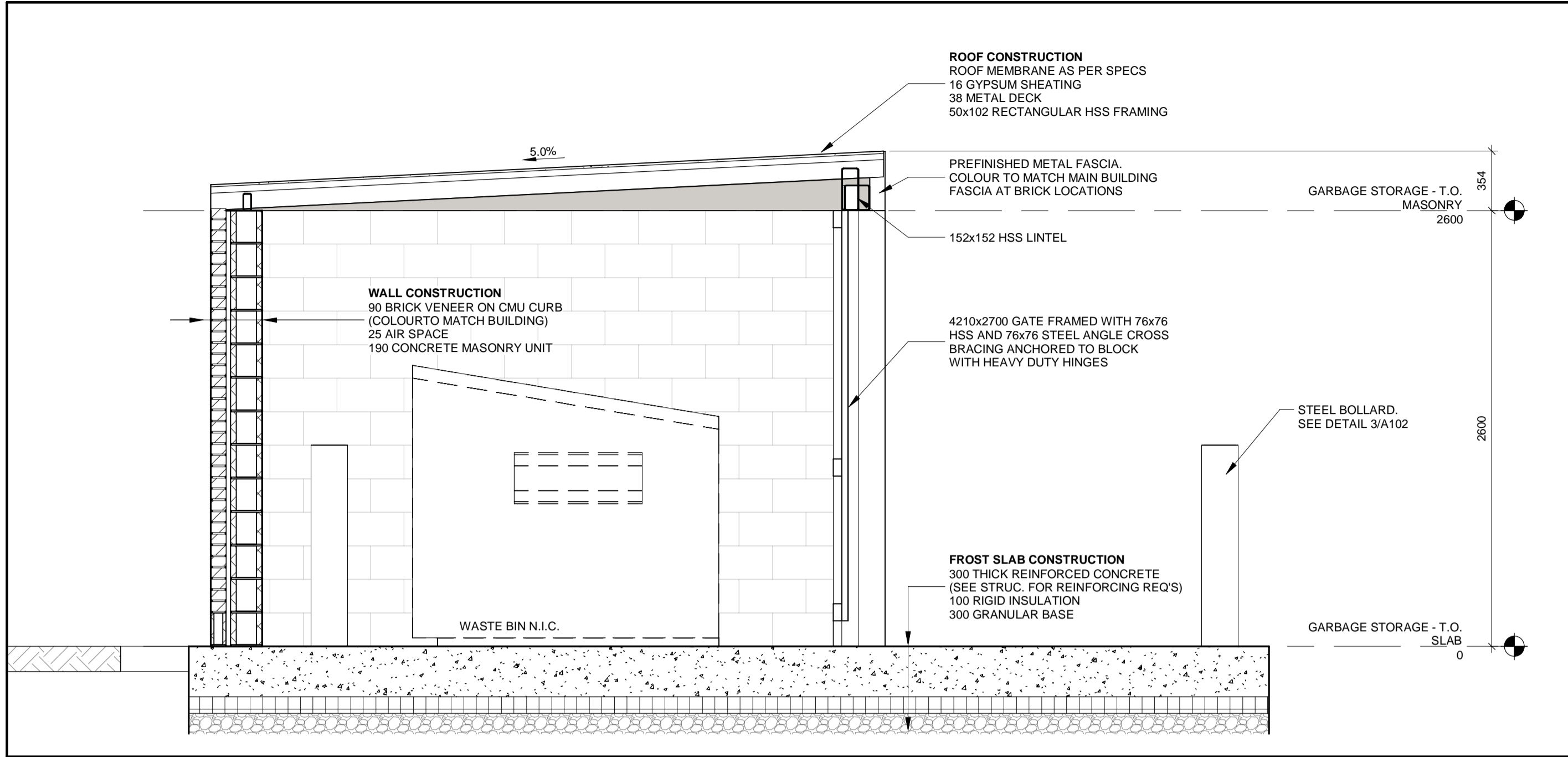
NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING SITE DETAILS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| T- 1160- 2021 | A- 101 | PO61- 18- 01 |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T- 1160- 2021 | A- 101 | |



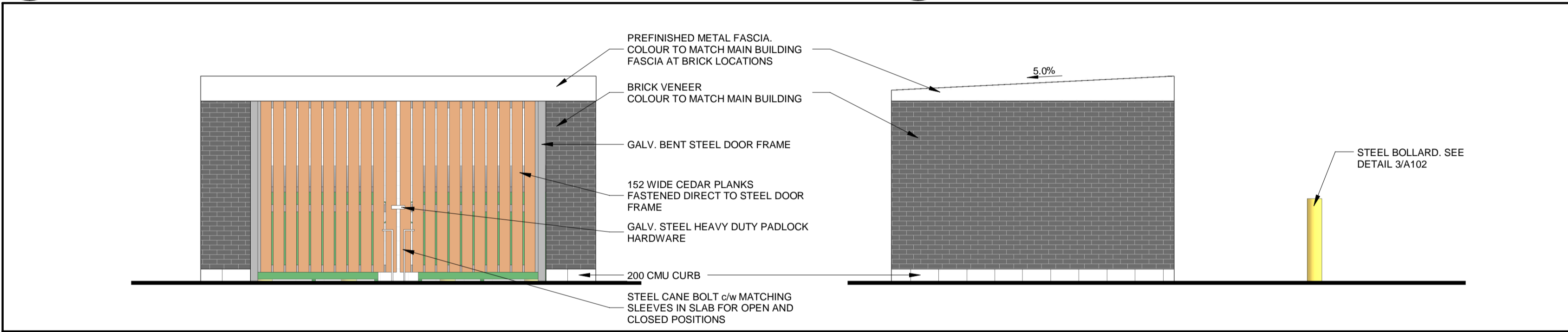
6 FLOOR PLAN - GARBAGE ENCLOSURE

A-100 A-103 1 : 50



5 GARBAGE ENCLOSURE

A-103 A-103 1 : 25



2 GARBAGE ENCL. - EAST ELEVATION

A-103 A-103 1 : 50

3 GARBAGE ENCL. - SOUTH ELEVATION

A-103 A-103 1 : 50

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

| CONSULTANT REVISIONS | | | |
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2022.03.14
ROY HOWARD TURNER
LICENCE 4845

SUB CONSULTANT

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| DESIGN BY: Designer | SCALE: As Indicated |
| DRAWN BY: Author | DATE: 12/30/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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| NO | DATE | NAME | REVISIONS |
| 3 | 03/14/2022 | | ISSUED FOR CONSTRUCTION |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

THE REGIONAL MUNICIPALITY OF DURHAM
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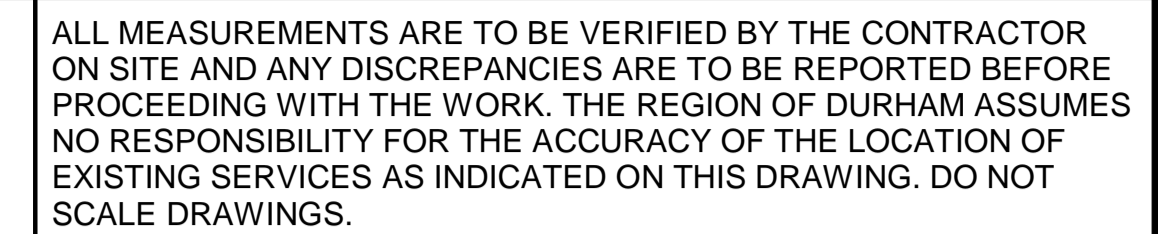
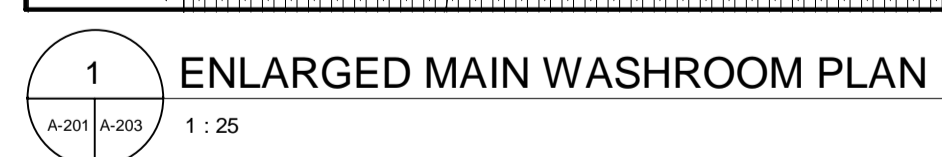
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
GARBAGE ENCLOSURE PLANS AND
DETAILS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 103 | SHEET NO. |

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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 201 | SHEET NO. |



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| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |



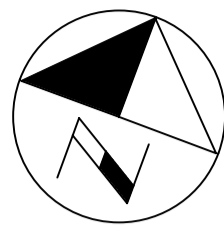
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OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 203 | SHEET NO. |

| | |
|------|---|
| TPD. | TOILET PAPER DISPENSER |
| SDN. | SANITARY NAPKIN DISPOSAL |
| SD. | SOAP DISPENSER |
| MIR. | MIRROR |
| CHK. | COAT HOOK |
| GB. | GRAB BAR |
| △ | BARRIER FREE PUSH BUTTON - PDO |
| SH. | STAINLESS STEEL SHELF |
| BCH. | BENCH |
| PTW. | RECESSED PAPER TOWEL DISPENSER AND WASTE BASKET |



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1890 Fifth Concession Rd

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THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
WASHROOM DETAILS

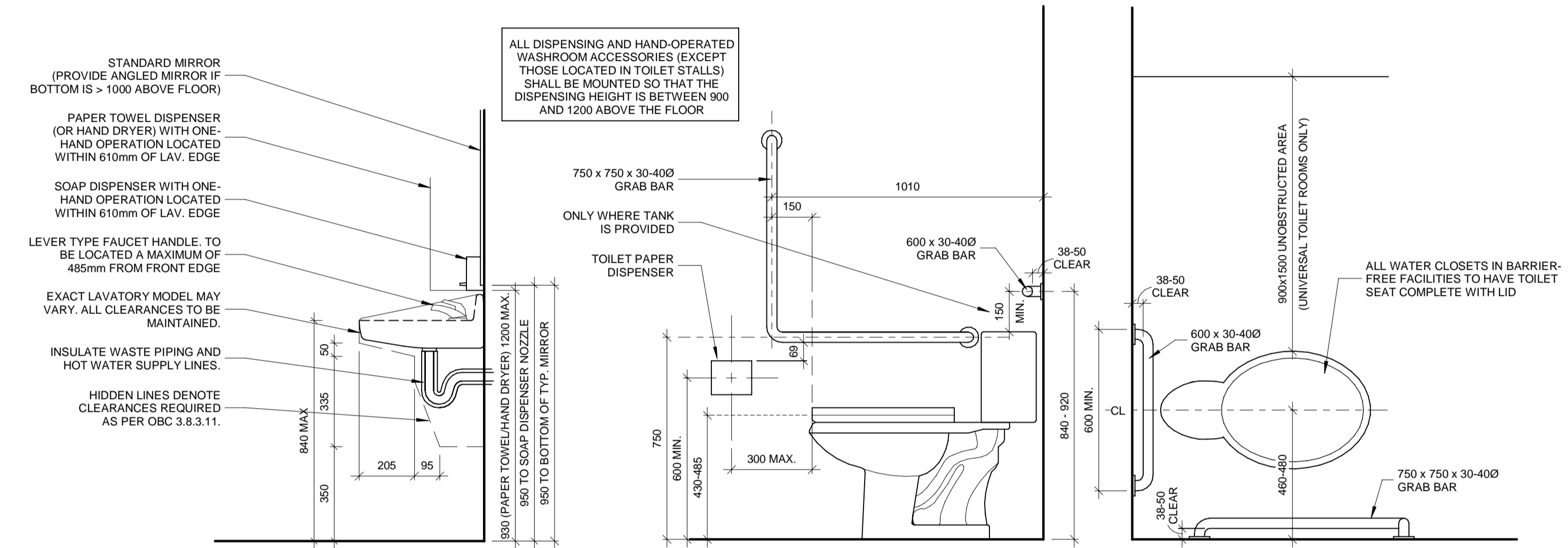
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BARRIER-FREE DESIGN NOTES:

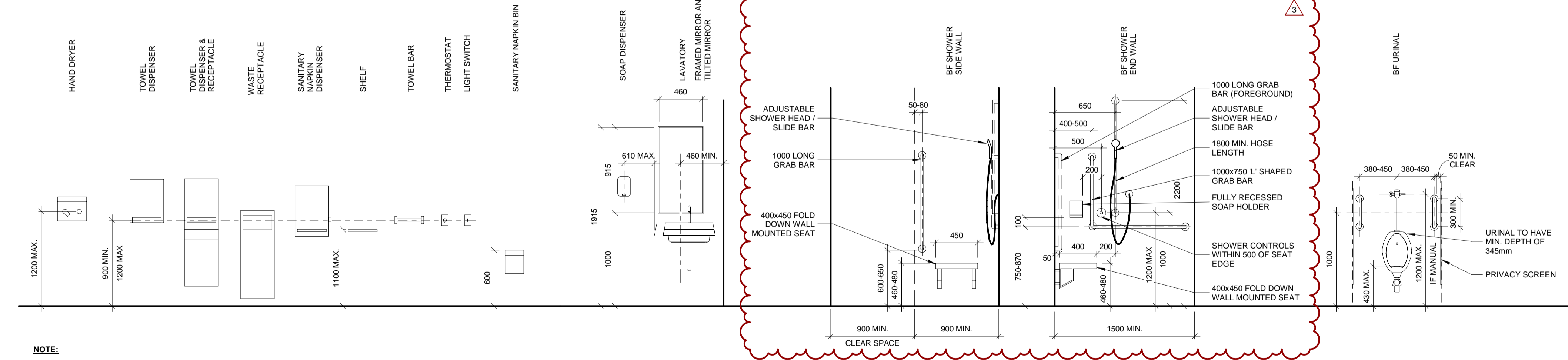
- BARRIER-FREE ENTRANCE TO THE BUILDING SHALL BE THROUGH THE FRONT ENTRANCE DOOR AND SHALL BE AT THE SAME ELEVATION AS THE EXTERIOR SIDEWALK.
- EXTERIOR WALKWAYS SHALL HAVE A SLIP RESISTANT FINISH (ie. ANTI-SLIP PAVING STONES, HEAVY BROOM FINISH ON CONCRETE). EXTERIOR WALKS THAT ARE FLUSH WITH ADJACENT LEVELS SHALL HAVE A TEXTURED SURFACE TO DIFFERENTIATE THE WALKWAY FROM SURROUNDING AREAS. MAX. SLOPE ON WALKWAYS SHALL BE NOT MORE THAN 1 : 20.
- SPACES REQUIRED TO BE PART OF THE BARRIER FREE PATH OF TRAVEL SHALL HAVE DOORS WITH MIN. 860mm CLEARANCE WHEN IN THE OPEN POSITION.
- SIGNS INCORPORATING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE INSTALLED WHERE NECESSARY TO INDICATE LOCATION OF THE ENTRANCE, ACCESSIBLE WASHROOMS, ACCESS TO BARRIER-FREE PARKING, MEANS OF EGRESS, ETC. SIGNS SHALL BE MOUNTED NOT LESS THAN 1200mm AND MORE THAN 1500mm A.F.F. (AS PER OBC 3.8.3.1).
- PROVIDE SOLID BLOCKING IN WALLS ADJACENT TO SPACE PROVIDED FOR FUTURE ADULT CHANGE TABLES AS PER OBC 3.8.3.12.(4).

UNIVERSAL WASHROOM DESIGN NOTES:

- (1) A UNIVERSAL WASHROOM SHALL,
- (A) BE SERVED BY A BARRIER-FREE PATH OF TRAVEL.
 - (B) HAVE A DOOR THAT IS CAPABLE OF BEING LOCKED FROM THE INSIDE AND RELEASED FROM THE OUTSIDE IN CASE OF EMERGENCY AND THAT HAS:
 - (I) A GRASPABLE LATCH-OPERATING MECHANISM LOCATED NOT LESS THAN 900 MM AND NOT MORE THAN 1 000 MM ABOVE THE FINISHED FLOOR.
 - (II) IF IT IS AN OUTWARD SWINGING DOOR, A DOOR PULL NOT LESS THAN 140 MM LONG LOCATED ON THE INSIDE SO THAT ITS MIDPOINT IS NOT LESS THAN 200 MM AND NOT MORE THAN 300 MM FROM THE LATCH SIDE OF THE DOOR AND NOT LESS THAN 900 MM AND NOT MORE THAN 1 100 MM ABOVE THE FINISHED FLOOR, AND
 - (III) IF IT IS AN OUTWARD SWINGING DOOR, A DOOR CLOSER, SPRING HINGES OR GRAVITY HINGES, SO THAT THE DOOR CLOSURES AUTOMATICALLY.
 - (C) HAVE ONE LAVATORY CONFORMING TO SENTENCES 3.8.3.11.(1), (3) AND (4).
 - (D) HAVE ONE WATER CLOSET CONFORMING TO ARTICLE 3.8.3.9. THAT IS LOCATED IN ACCORDANCE WITH CLAUSE 3.8.3.8.(2)(A) OR (B).
 - (E) HAVE GRAB BARS CONFORMING TO,
 - (I) SENTENCE 3.8.3.8.(3), IF THE WATER CLOSET IS LOCATED IN ACCORDANCE WITH CLAUSE 3.8.3.8.(2)(A), OR
 - (II) SENTENCE 3.8.3.8.(4), IF THE WATER CLOSET IS LOCATED IN ACCORDANCE WITH CLAUSE 3.8.3.8.(2)(B).
 - (F) HAVE NO INTERNAL DIMENSION BETWEEN WALLS THAT IS LESS THAN 1 700 MM.
 - (G) HAVE A COAT HOOK THAT CONFORMS TO CLAUSE 3.8.3.8.(1)(E) AND A SHELF THAT IS LOCATED NOT MORE THAN 1 100 MM ABOVE THE FINISHED FLOOR AND PROJECTS NOT MORE THAN 100 MM FROM THE WALL.
 - (H) BE DESIGNED TO PERMIT A WHEELCHAIR TO TURN IN AN OPEN SPACE NOT LESS THAN 1 700 MM IN DIAMETER.
 - (I) BE PROVIDED WITH A DOOR EQUIPPED WITH A POWER DOOR OPERATOR IF THE DOOR IS EQUIPPED WITH A SELF-CLOSING DEVICE.
 - (J) BE PROVIDED WITH A MIRROR.
 - (I) INSTALLED ABOVE A LAVATORY DESCRIBED IN CLAUSE (1)(C), AND
 - (II) MOUNTED WITH ITS BOTTOM EDGE NOT MORE THAN 1 000 MM ABOVE THE FINISHED FLOOR OR INCLINED TO THE VERTICAL TO BE USABLE BY A PERSON IN A WHEELCHAIR, AND
 - (K) HAVE LIGHTING CONTROLLED BY A MOTION SENSOR CONFORMING TO SENTENCE 12.2.4.1.(2).
- (2) A UNIVERSAL WASHROOM SHALL HAVE,
- (A) AN EMERGENCY CALL SYSTEM THAT CONSISTS OF AUDIBLE AND VISUAL SIGNAL DEVICES INSIDE AND OUTSIDE OF THE WASHROOM THAT ARE ACTIVATED BY A CONTROL DEVICE INSIDE THE WASHROOM, AND
 - (B) AN EMERGENCY SIGN THAT CONTAINS THE WORDS "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE" IN LETTERS AT LEAST 25 MM HIGH WITH A 5 MM STROKE AND THAT IS POSTED ABOVE THE EMERGENCY BUTTON.
- (3) A CLEAR SPACE NOT LESS THAN 810 MM WIDE AND 1 830 MM LONG SHALL BE PROVIDED IN EACH UNIVERSAL WASHROOM FOR AN ADULT-SIZE CHANGE TABLE.
- (4) WHERE THE CLEAR SPACE PROVIDED FOR AN ADULT-SIZE CHANGE TABLE IS ADJACENT TO A WALL, REINFORCEMENT SHALL BE INSTALLED IN THE WALL TO PERMIT THE FUTURE INSTALLATION OF THE CHANGE TABLE.

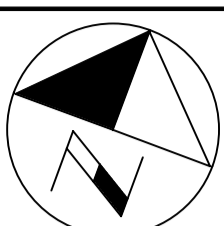


TYPICAL WASHROOM ACCESSORY HEIGHTS



NOTE:

- ELEVATIONS ARE BASED ON TYPICAL WASHROOM ACCESSORIES.
- COORDINATE WITH FINAL WASHROOM ACCESSORY SHOP DRAWING SELECTIONS.



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1890 Fifth Concession Rd

LEGEND:

NOTE: ALL EXTERIOR AND INTERIOR DIMENSIONS ARE TO THE FACE OF CONCRETE BLOCK OR STEEL STUD UNLESS OTHERWISE NOTED

- RECESSED LIGHT FIXTURE WITHIN CEILING GRID. REFER TO ELECTRICAL. COORDINATE WITH CEILING LAYOUT.
- SUSPENDED LIGHT FIXTURE. REFER TO ELECTRICAL.
- RECESSED 610x1220 LIGHT FIXTURE WITHIN CEILING GRID. REFER TO ELECTRICAL. COORDINATE WITH CEILING LAYOUT.
- RECESSED POT LIGHT. REFER TO ELECTRICAL.
- EXTERIOR LIGHT FIXTURE. REFER TO ELEVATIONS AND ELECTRICAL.
- EXHAUST GRILLE. REFER TO MECHANICAL.
- DIFFUSER. REFER TO MECHANICAL.
- RETURN GRILLE. REFER TO MECHANICAL.
- RWS ROLLER WINDOW SHADE
- RWBB ROLLER WINDOW BLACKOUT BLINDS

CONSULTANT REVISIONS

| NO. | DATE. | NAME | REVISIONS |
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| DESIGN BY: JC / GG | SCALE: As Indicated |
| DRAWN BY: TH / MR | DATE: 10/08/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

CONTRACT REVISIONS

| NO | DATE | NAME | REVISIONS |
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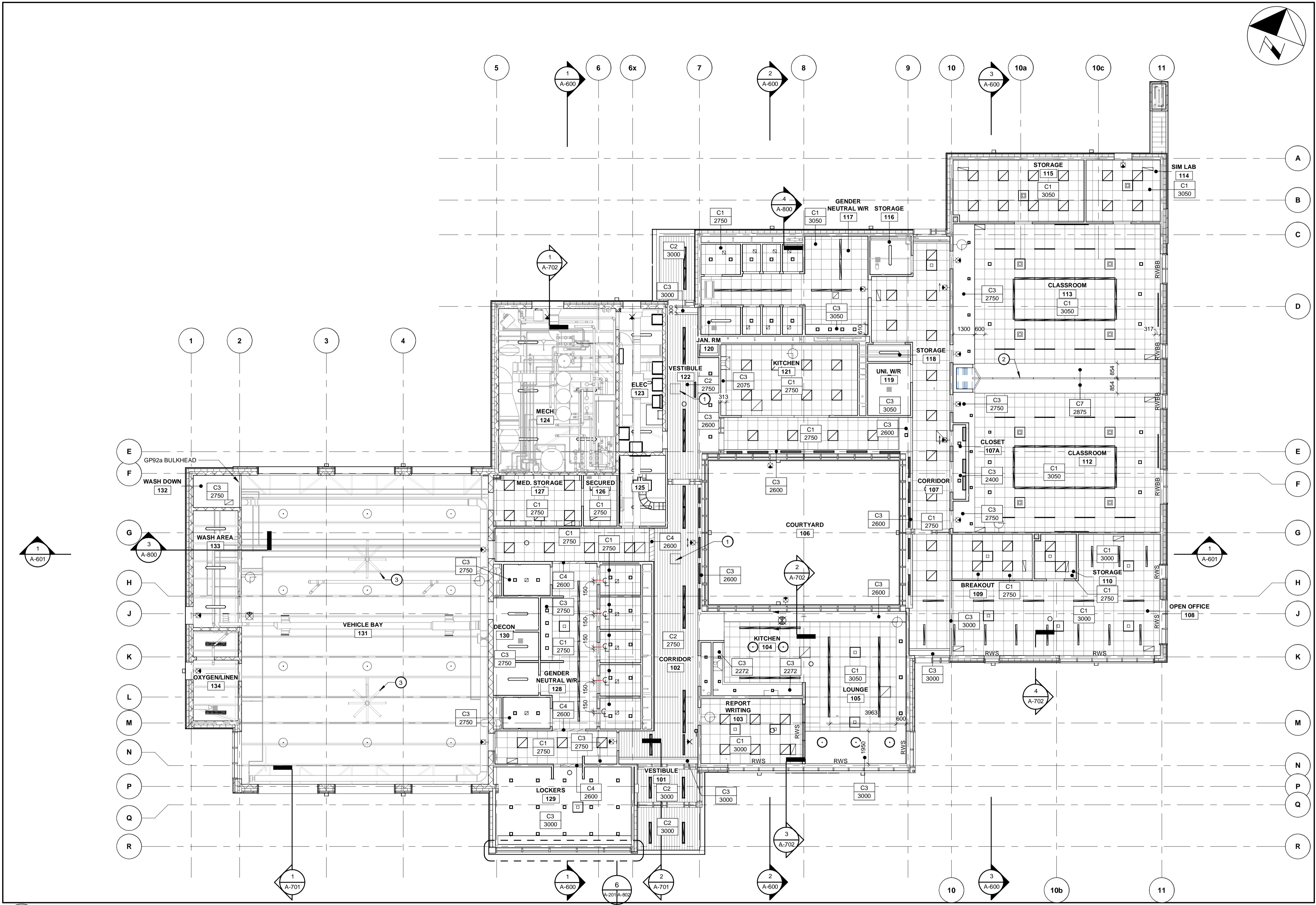


THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
REFLECTED CEILING PLAN

| | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 300 | SHEET NO. |



1 REFLECTED CEILING PLAN - GROUND FLOOR

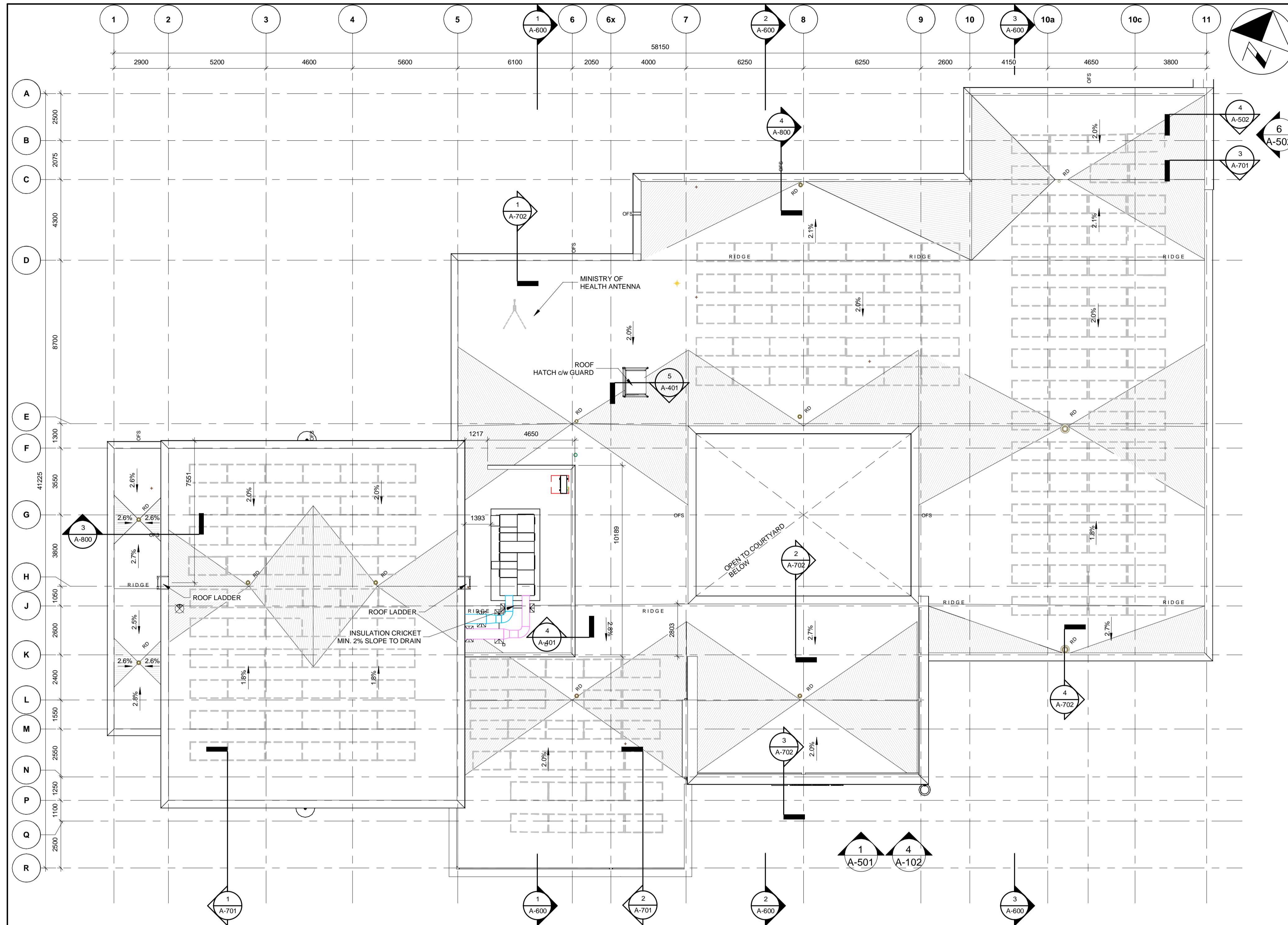
1:125

KEYNOTE LEGEND

| KEY | NOTE |
|-----|--|
| 1 | ACCESS HATCH FOR WOOD CEILING FINISH. COORDINATE SIZE AND LOCATION WITH WOOD SLATS AND MECHANICAL UNIT LOCATION. |
| 2 | MOBILE CLASS ROOM PARTITION SYSTEM. ADJACENT DRYWALL BULKHEAD FINISH TO BE COORDINATED WITH PARTITION CLEARANCES TO AVOID DAMAGE DURING OPERATION. |
| 3 | LARGE VOLUME SUSPENDED CEILING FAN. COORDINATE WITH MECHANICAL. |

REFLECTED CEILING PLAN
GENERAL NOTES

- GENERAL NOTES:
- ALL REFERENCE DATUMS ARE TAKEN FROM T.O. FINISHED GROUND FLOOR LEVEL.
 - ALL DIMENSIONS SHOWN ARE TO FINISHED FACE OF ADJACENT ASSEMBLY TO CEILING ELEMENT BEING DIMENSIONED.



1 ROOF PLAN - PHASE 1
A-401 A-400 1 : 125

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

ROOF LEGEND:

- RD ROOF DRAIN. REFER TO MECHANICAL.
- RA ROOF ANCHOR. COORDINATE WITH STRUCTURAL FRAMING
- HP HIGH POINT
- VENT THROUGH ROOF. REFER TO MECHANICAL.
- ADDITIONAL SLOPED INSULATION. 150+/-mm TO 10mm". MIN. 2% SLOPE

GENERAL NOTES:

- EXACT LOCATION AND ELEVATIONS OF SLOPED INSULATION CRICKETS TO BE SITE VERIFIED AND APPROVED BY PROJECT MANAGER PRIOR TO INSTALLATION.
- PROVIDE SLOPE OF 2% AS TYPICAL. MINIMUM SLOPE OF 1% IN VALLEYS

| CONSULTANT REVISIONS | | | |
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| NO. | DATE | NAME | REVISIONS |

PRIME CONSULTANT

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519 650 5313 tel 519 650 3424 fax
www.aecom.com

2022.03.14
ARCHITECTS
ROY HOWARD TURNER
LICENCE
4845

SUB CONSULTANT

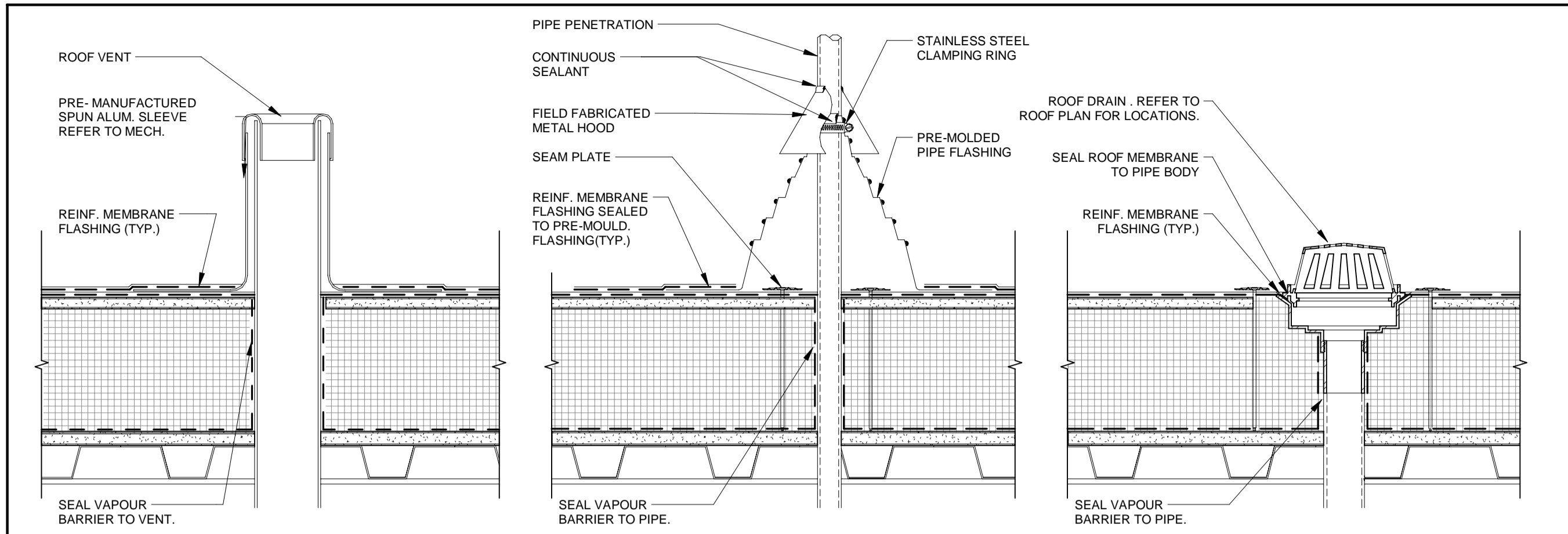
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| DRAWN BY: TH / MR | DATE: 10/07/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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| NO | DATE | NAME | REVISIONS |
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| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

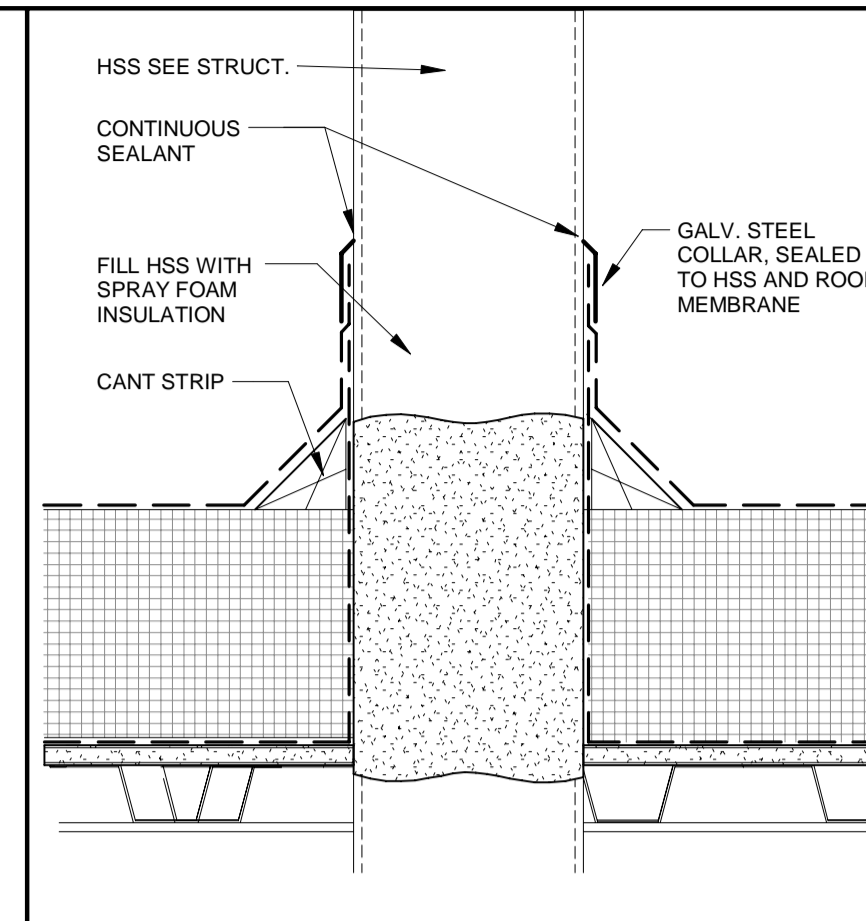
THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
ROOF PLAN - PHASE 1

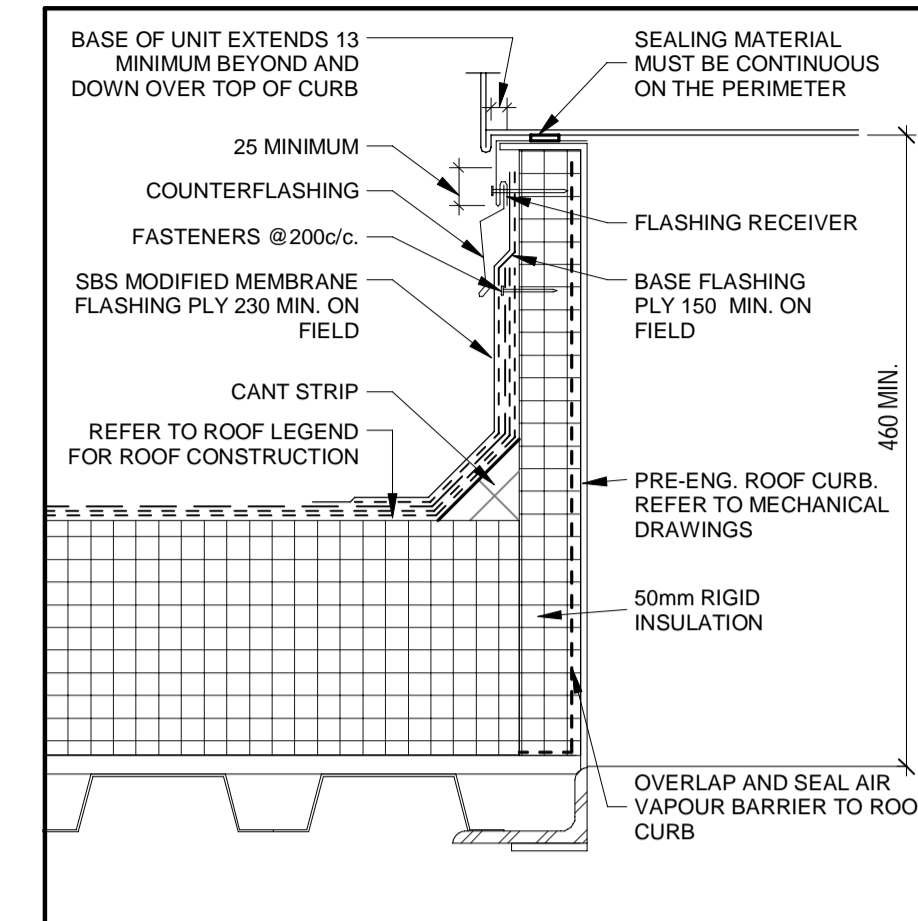
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 400 | SHEET NO. |



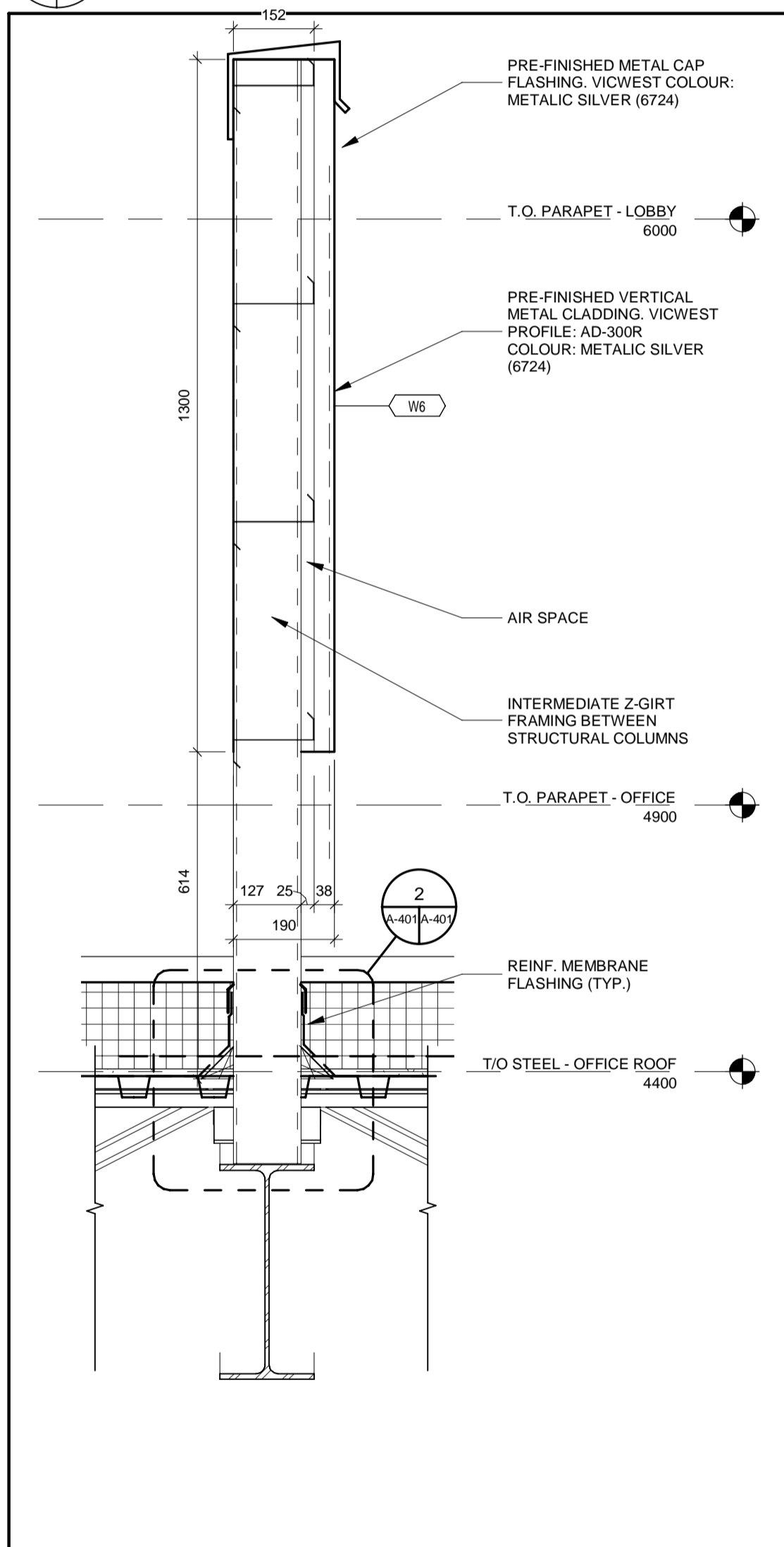
1 TYPICAL ROOF PENETRATIONS



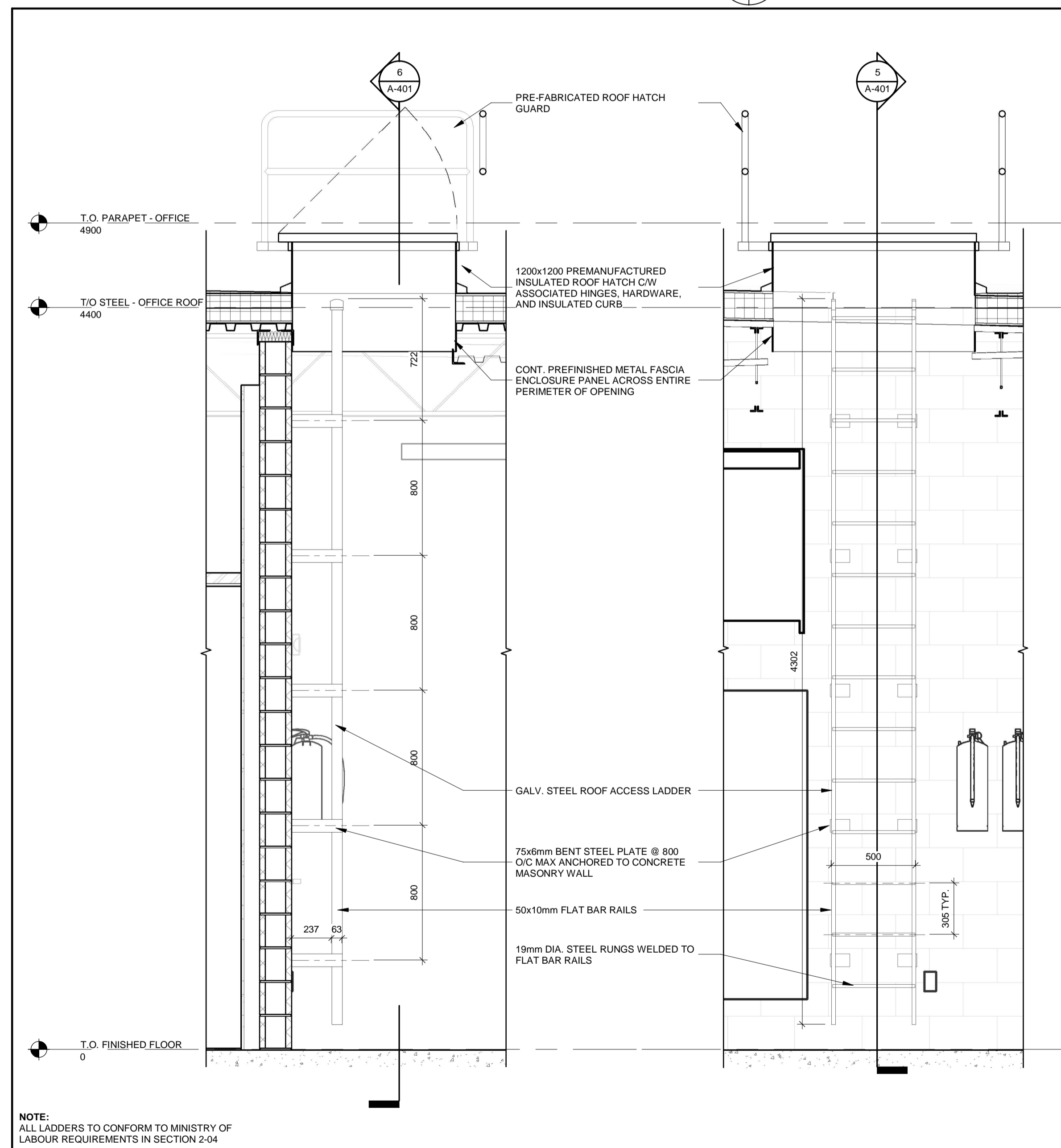
2 HSS ROOF PENETRATION



3 TYP. ROOF CURB

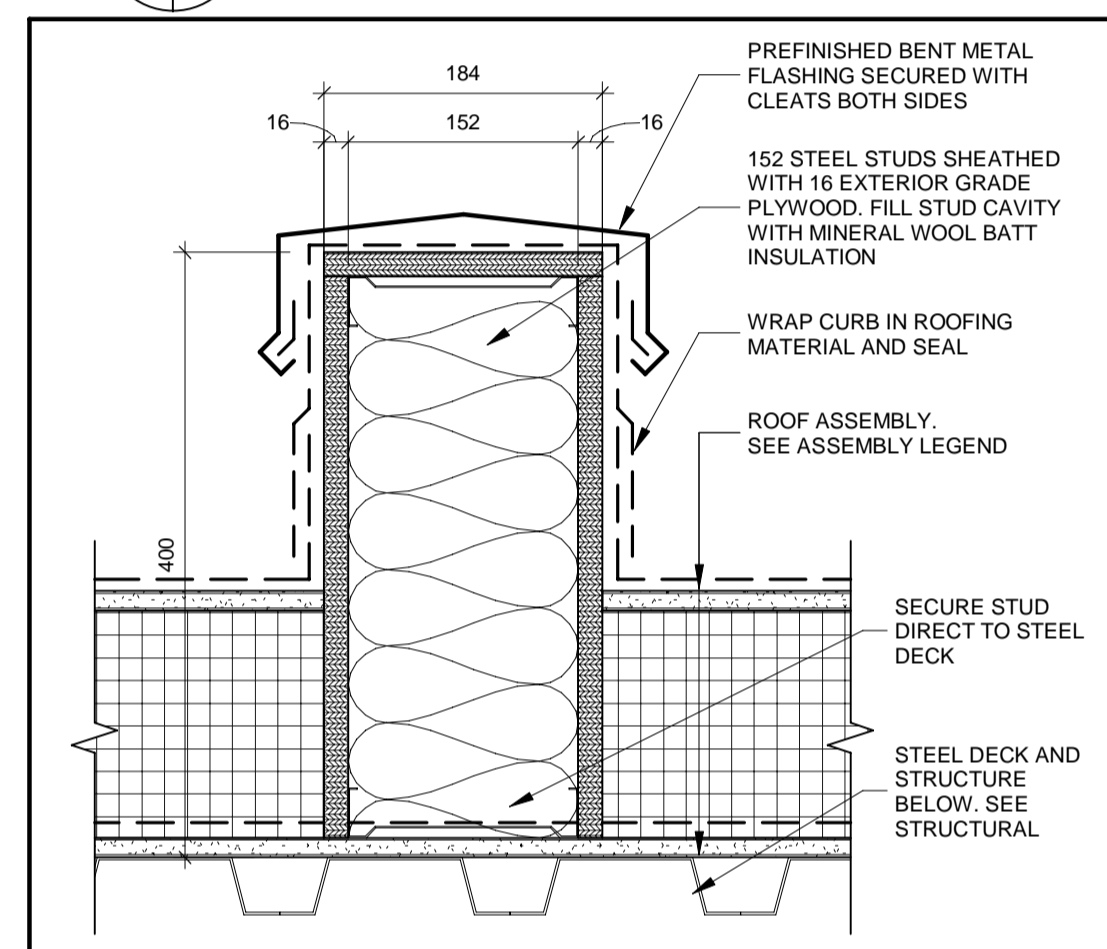


4 TYP. MECHANICAL SCREEN DETAIL



5 ROOF LADDER SECTION 1

6 ROOF LADDER SECTION 2



7 ROOF CURB

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1890 Fifth Concession Rd

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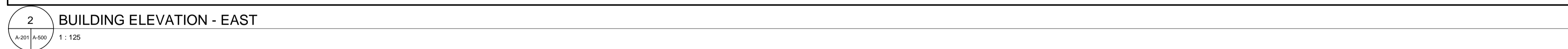
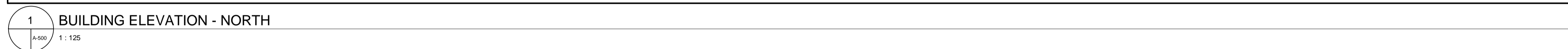
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|------------------|--|--|---|
| PRIME CONSULTANT | | AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com | 2022.03.14 ROY HOWARD TURNER LICENCE 4845 |
| SUB CONSULTANT | | | |

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| DESIGN BY: Designer | SCALE: As Indicated |
| DRAWN BY: Author | DATE: 03/29/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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| | THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT DESIGN, CONSTRUCTION & ASSET MANAGEMENT | |
| | NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ROOF PLAN DETAILS | |



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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
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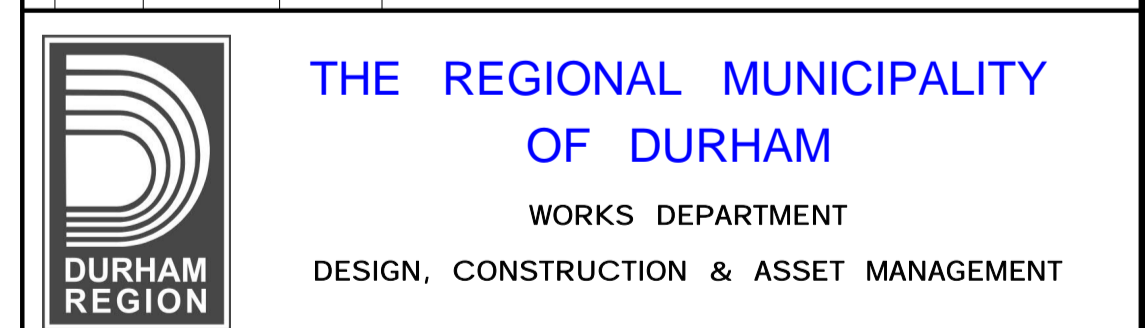
GENERAL NOTES:

PANEL SIZES, REVEALS, AND FASTENERS SHOWN FOR CLARIFICATION ONLY. FINAL PANEL SIZES, REVEALS, AND FASTENERS TO BE COORDINATED WITH SHOP DRAWINGS, MANUFACTURER, AND ARCHITECT.

1890 Fifth Concession Rd

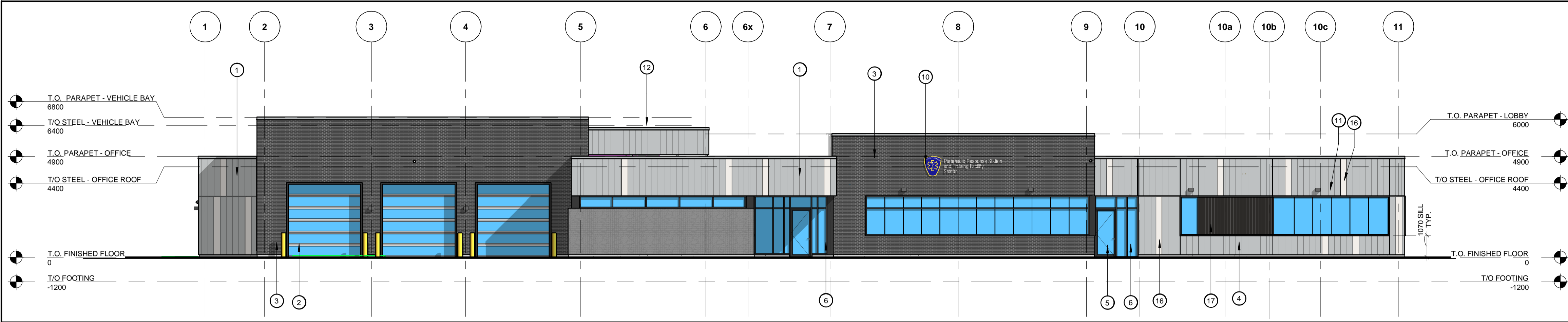
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| <p>PRIME CONSULTANT</p> <div data-bbox="2433 919 2638 968">  </div> <p>AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p> | <div data-bbox="2748 898 2917 1056">  </div> <p>2022.03.14 of ARCHITECTS ROY HOWARD TURNER LICENCE 4845</p> |
| <p>SUB CONSULTANT</p> | |

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| CONTRACT REVISIONS | | | | |
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| | 1 | 09/22/21 | | ISSUED FOR TENDER |
| | NO | DATE | NAME | REVISIONS |

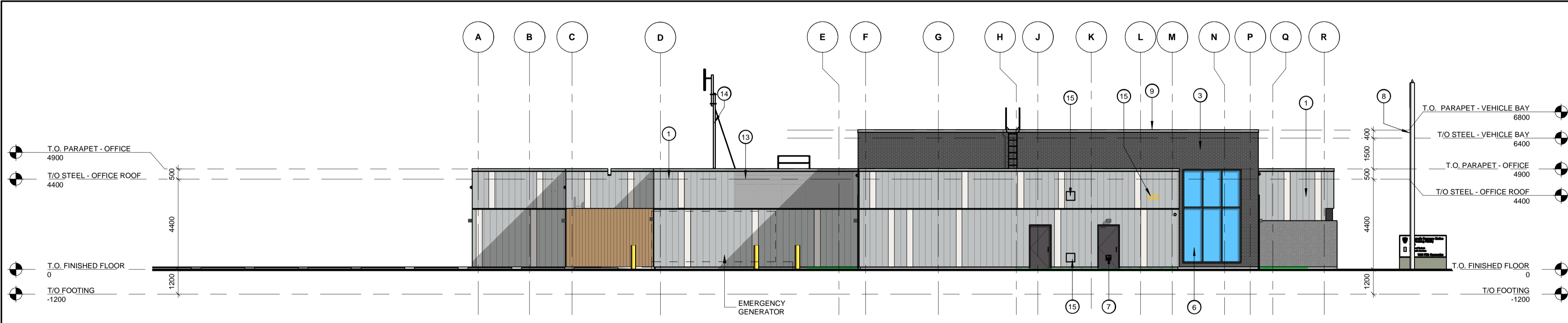


NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
EXTERIOR ELEVATIONS - PHASE 1

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 500 | SHEET NO. |



1 BUILDING ELEVATION - SOUTH
A-201 A-501 1 : 125



2 BUILDING ELEVATION - WEST
A-201 A-501 1 : 125

| # | KEY | NOTE |
|----|---|------|
| 1 | PRE-FINISHED VERTICAL METAL CLADDING. PROFILE: VICWEST AD-300R. COLOUR: METALLIC SILVER (6724). | |
| 2 | CLEAR, DOUBLE PANE TEMPERED GLASS OVERHEAD DOOR C/W THERMALLY BROKEN BLACK ANODIZED ALUMINUM FRAMES. | |
| 3 | BRICK VENEER. COLOUR: DARK GREY. | |
| 4 | 50MM BLACK ANODIZED SHADOW BOX TO MATCH CURTAIN WALL MULLIONS. | |
| 5 | CLEAR, DOUBLE PANE TEMPERED GLASS PERSON DOOR C/W THERMALLY BROKEN BLACK ANODIZED ALUMINUM FRAMES. | |
| 6 | CLEAR, DOUBLE PANE TEMPERED GLASS C/W THERMALLY BROKEN BLACK ANODIZED ALUMINUM FRAMES. | |
| 7 | THERMALLY BROKEN HOLLOW METAL DOOR AND FRAME. COLOUR: TO MATCH BLACK ANODIZED. | |
| 8 | FLAGPOLE. | |
| 9 | PRE-FINISHED METAL CAP FLASHING. COLOUR: METALLIC SILVER (6724). | |
| 10 | BUILDING MOUNTED SIGNAGE. | |
| 11 | WALL MOUNTED LIGHT FIXTURE. REFER TO ELECTRICAL. | |
| 12 | GALVANIZED HORIZONTAL SLAT MECHANICAL ROOF TOP SCREEN. PROFILE: VICWEST AD-300R. COLOUR: METALLIC SILVER (6724) ON METAL FRAMING. | |
| 13 | PRE-FINISHED METAL MECHANICAL LOUVER PANEL. COLOUR: BLACK. | |
| 14 | MINISTRY OF HEALTH ANTENNA. | |
| 15 | EXTRUDED MECHANICAL HVAC LOUVER. REFER TO MECHANICAL. | |
| 16 | PRE-FINISHED VERTICAL METAL CLADDING. PROFILE: VICWEST AD-300R. COLOUR: LIGHT PEWTER (2887). | |
| 17 | PRE-FINISHED VERTICAL METAL CLADDING. PROFILE: VICWEST AD-300R. COLOUR: BLACK (56068). | |

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1890 Fifth Concession Rd

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SUB CONSULTANT

ONTARIO ASSOCIATION OF ARCHITECTS
2022.03.14
ROY HOWARD TURNER
LICENCE 4645

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| DESIGN BY: JC / GG | SCALE: 1 : 125 |
| DRAWN BY: TH / MR | DATE: 10/08/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

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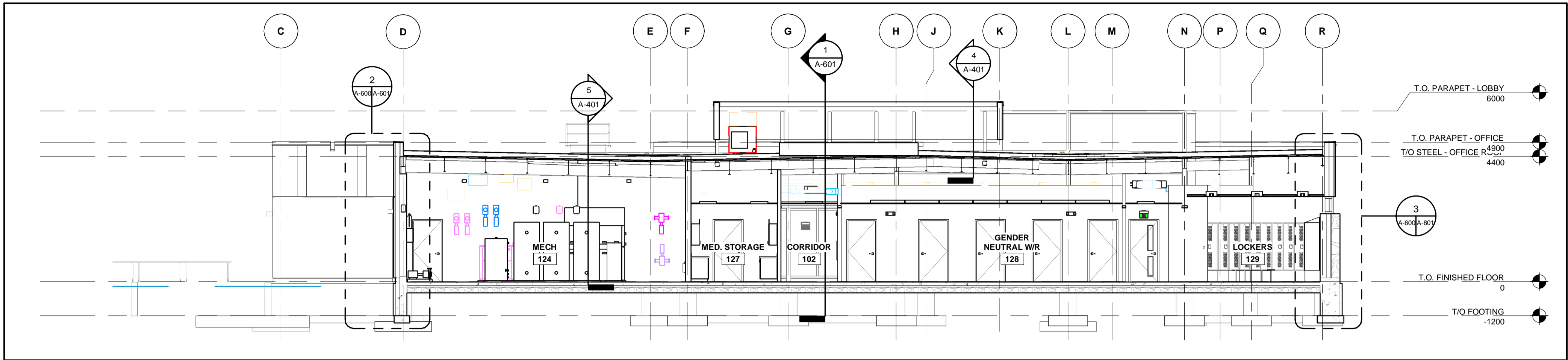


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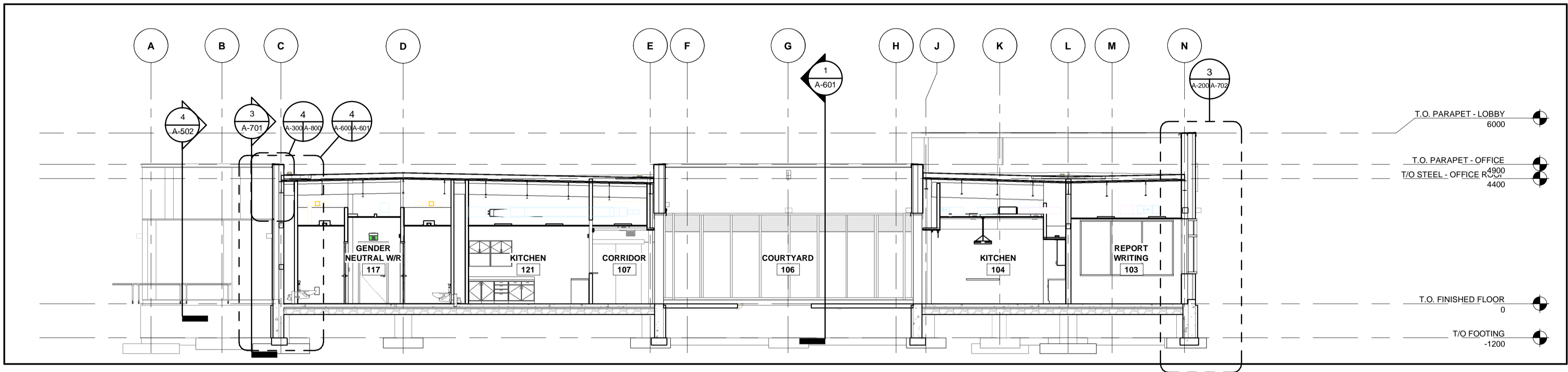
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
EXTERIOR ELEVATIONS - PHASE 1

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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 501 | SHEET NO. |

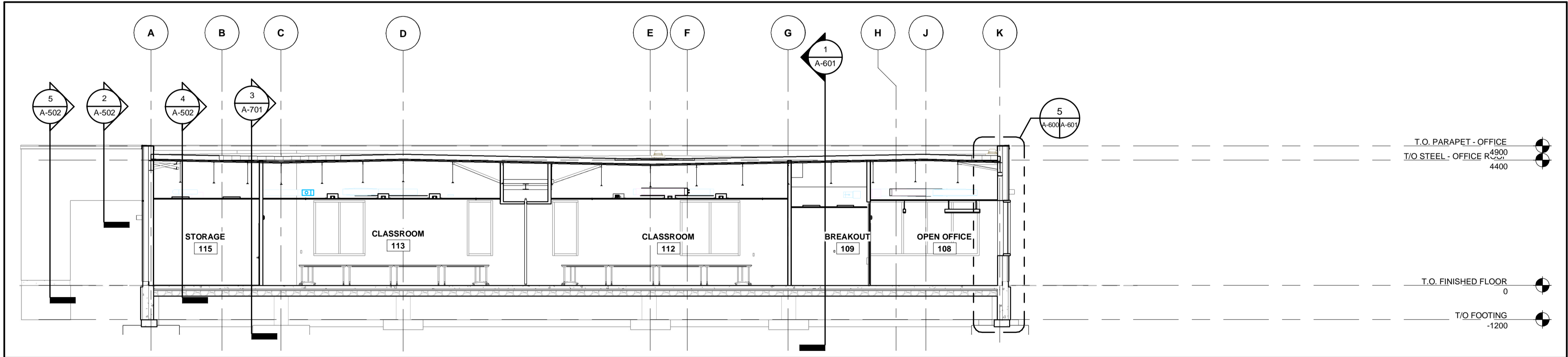
BIM 300/JP-AMER (CAN) 60611569-Station RDPDS-A.rvt



1 BUILDING SECTION - 1
A-200 A-600 1 : 100



2 BUILDING SECTION - 2
A-200 A-600 1 : 100



3 BUILDING SECTION - 3
A-200 A-600 1 : 100

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1890 Fifth Concession Rd

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2022.03.14
ROY HOWARD TURNER
LICENCE 4845

SUB CONSULTANT

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| DESIGN BY: Designer | SCALE: 1 : 100 |
| DRAWN BY: Author | DATE: 11/16/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

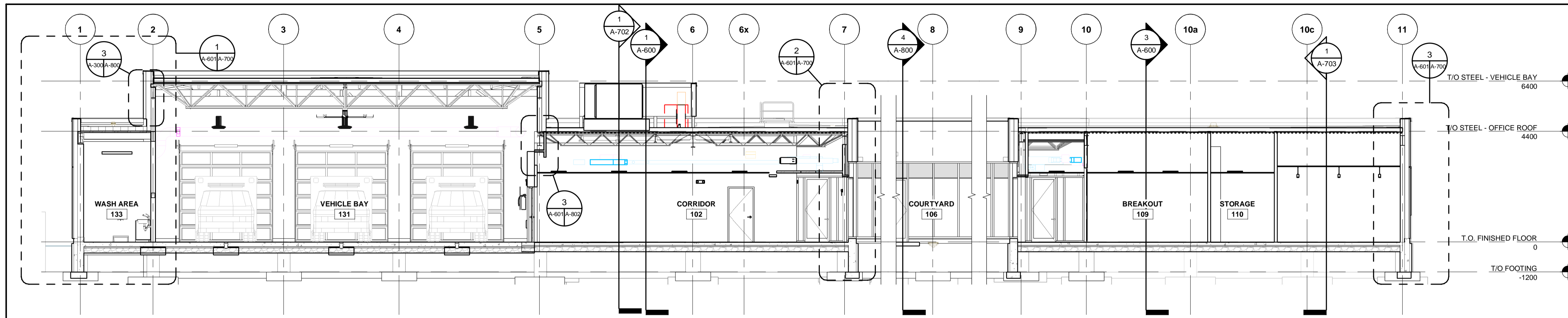
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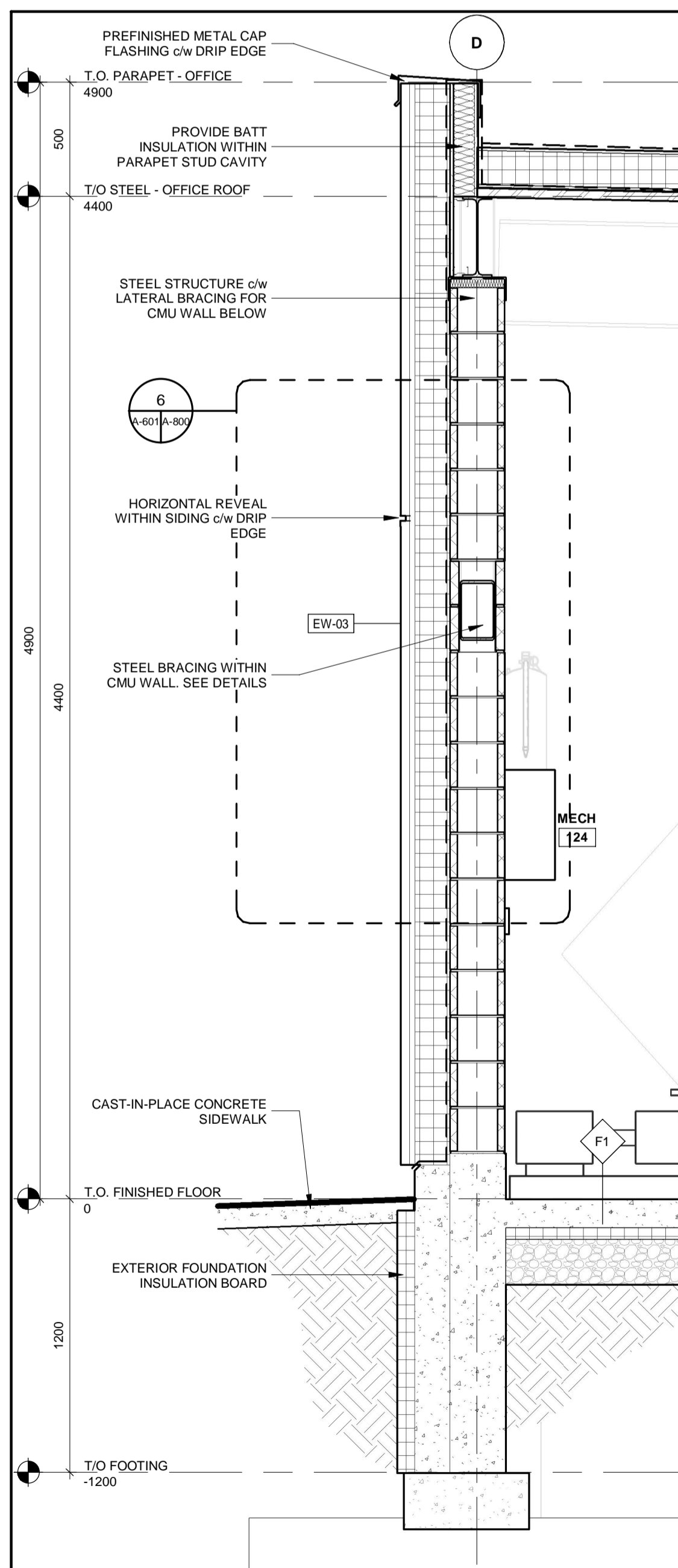
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
BUILDING SECTIONS

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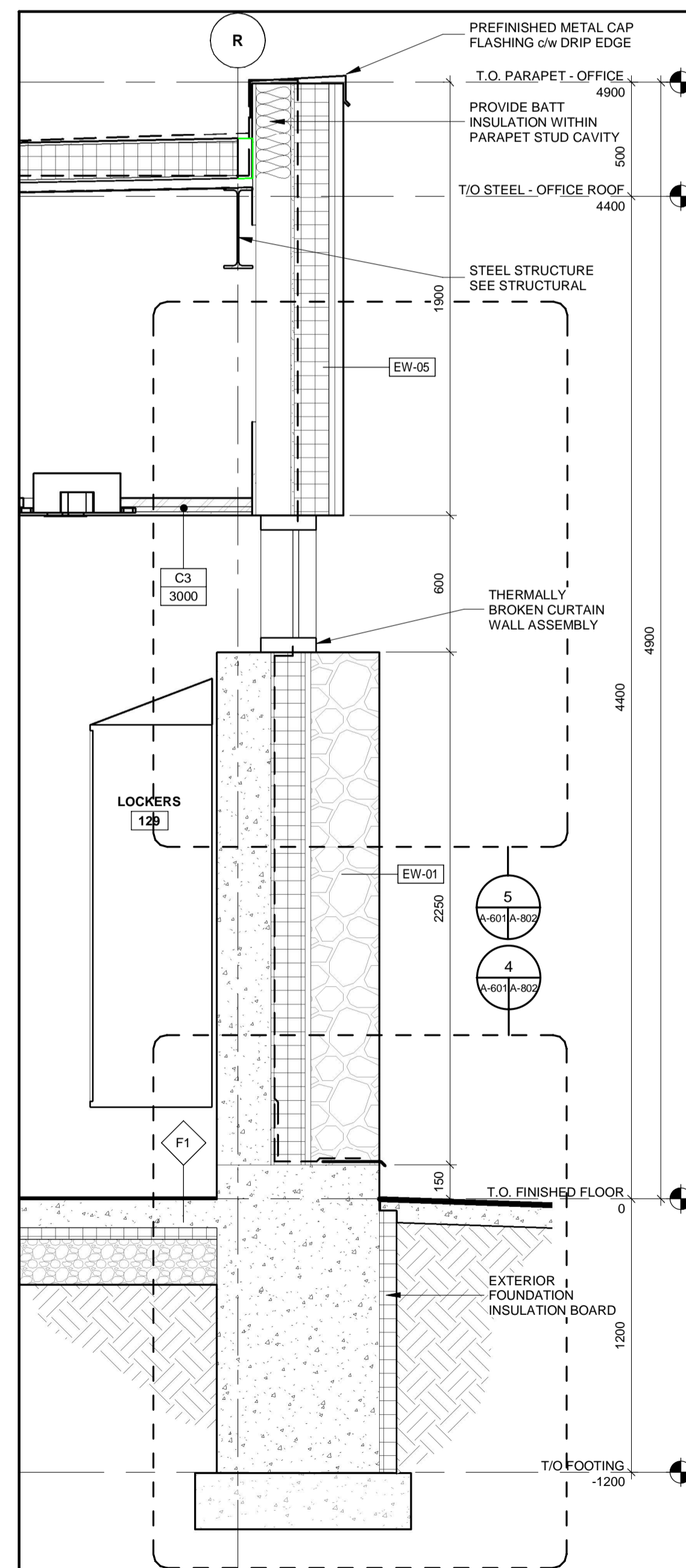
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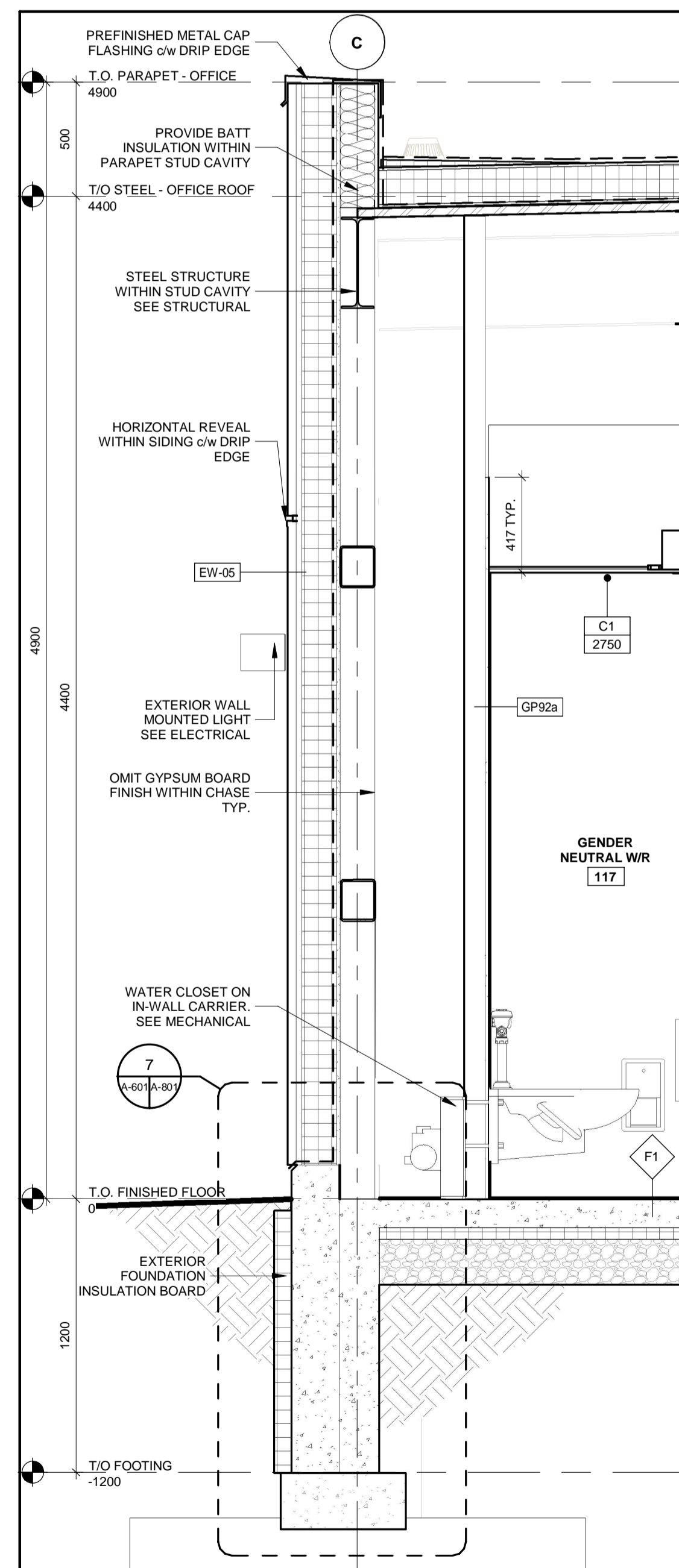
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A-200 A-601 1 : 100



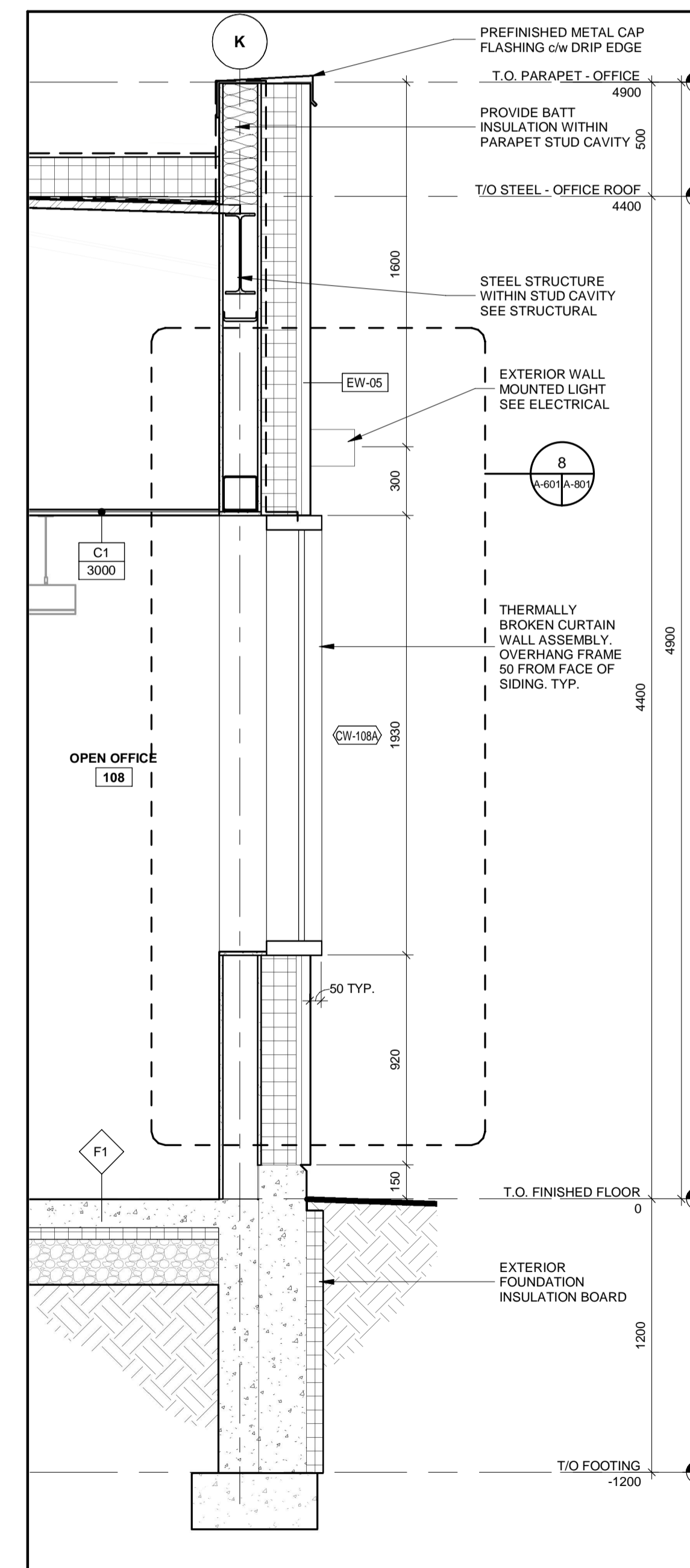
2 WALL SECTION 1
A-600 A-601 1 : 20



3 WALL SECTION 2
A-600 A-601 1 : 20



4 WALL SECTION 3
A-600 A-601 1 : 20



5 WALL SECTION 4
A-600 A-601 1 : 20

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DURHAM REGION

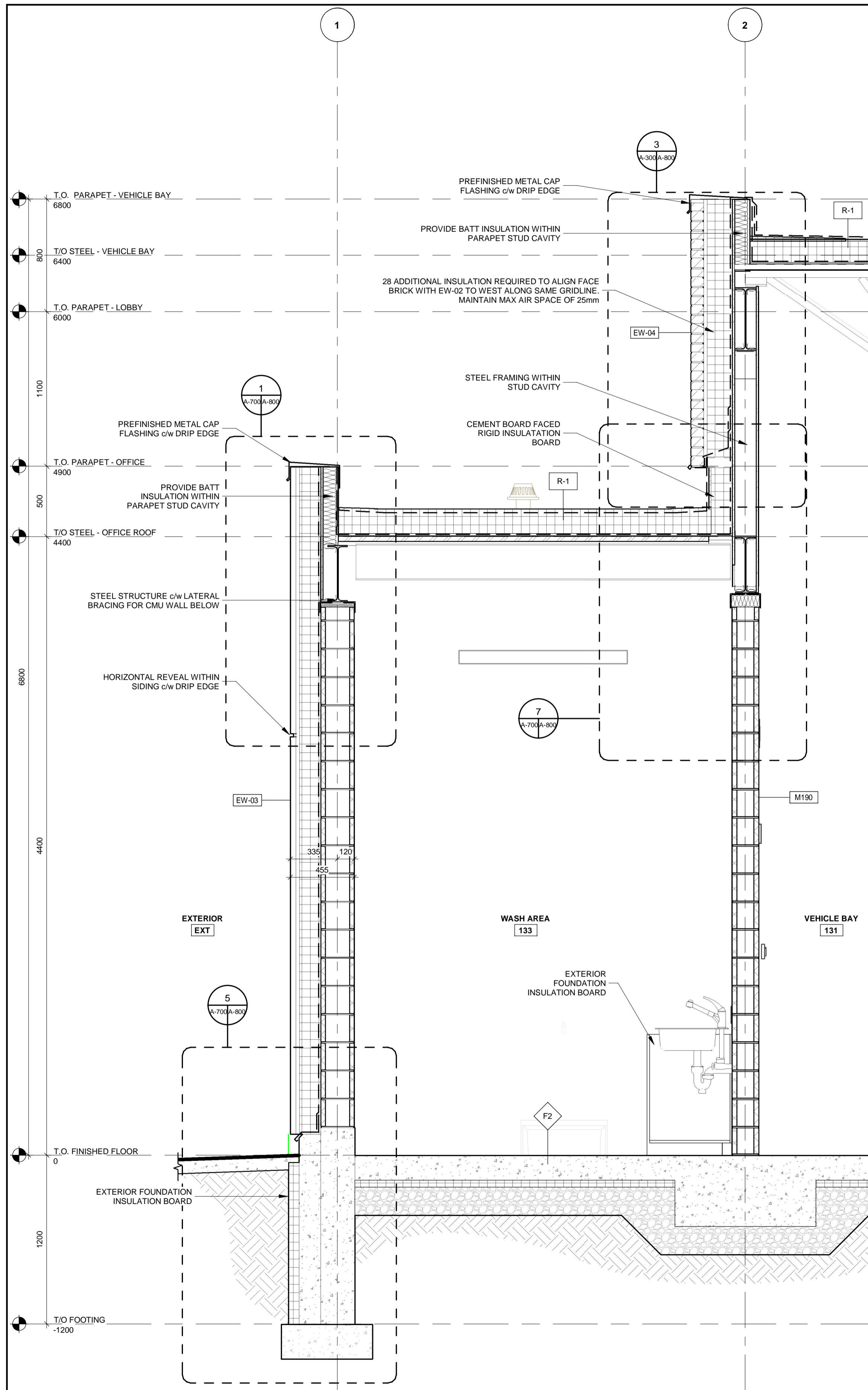
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WORKS DEPARTMENT

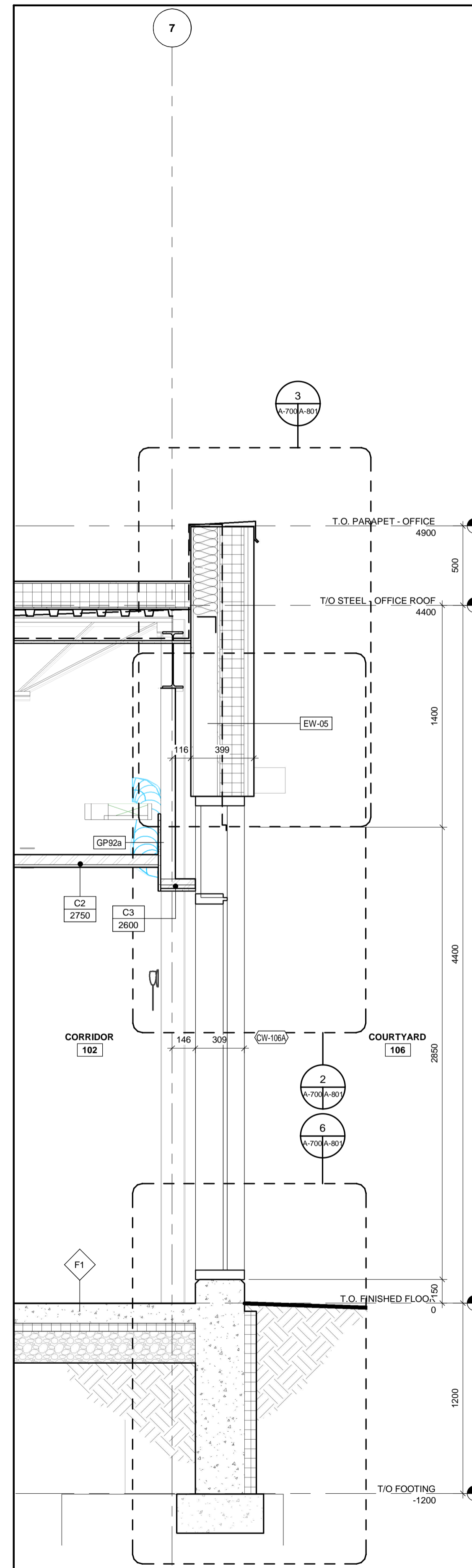
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING BUILDING SECTIONS

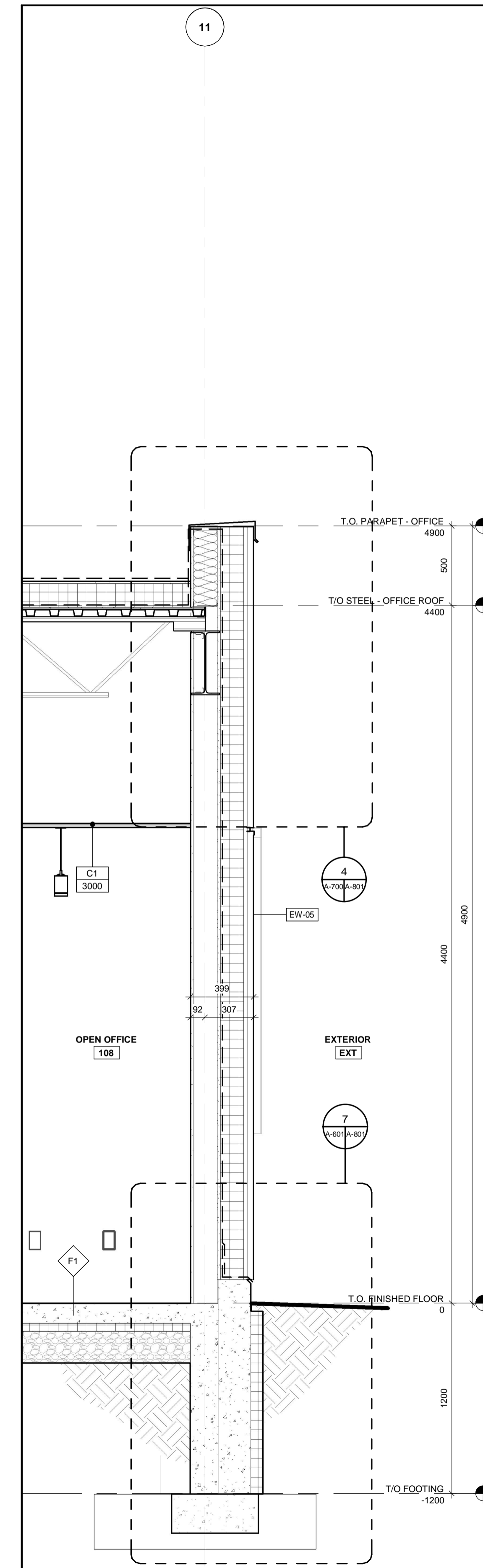
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 601 | SHEET NO. |



1 WALL SECTION 5
A-601 A-700 1:20



2 WALL SECTION 6
A-601 A-700 1:20



3 WALL SECTION 7
A-601 A-700 1:20

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1890 Fifth Concession Rd

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LICENCE 4845

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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING WALL SECTIONS

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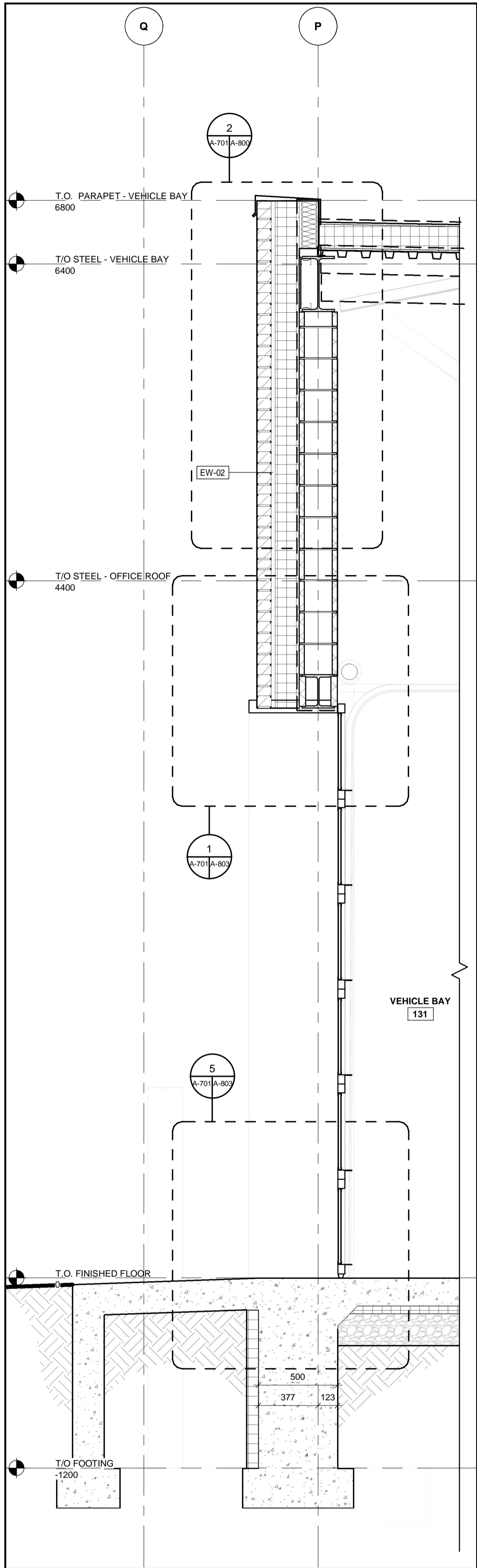


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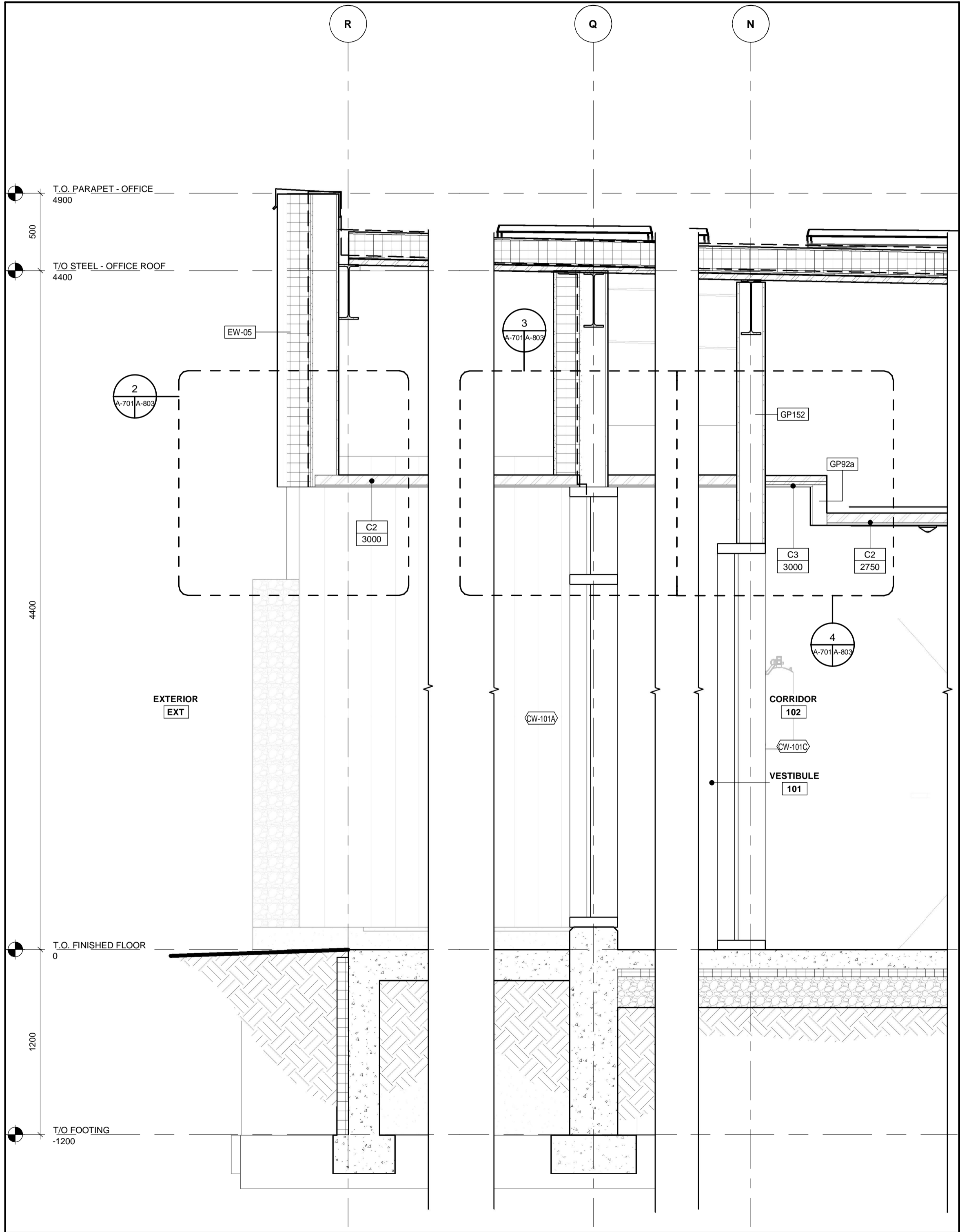
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING WALL SECTIONS

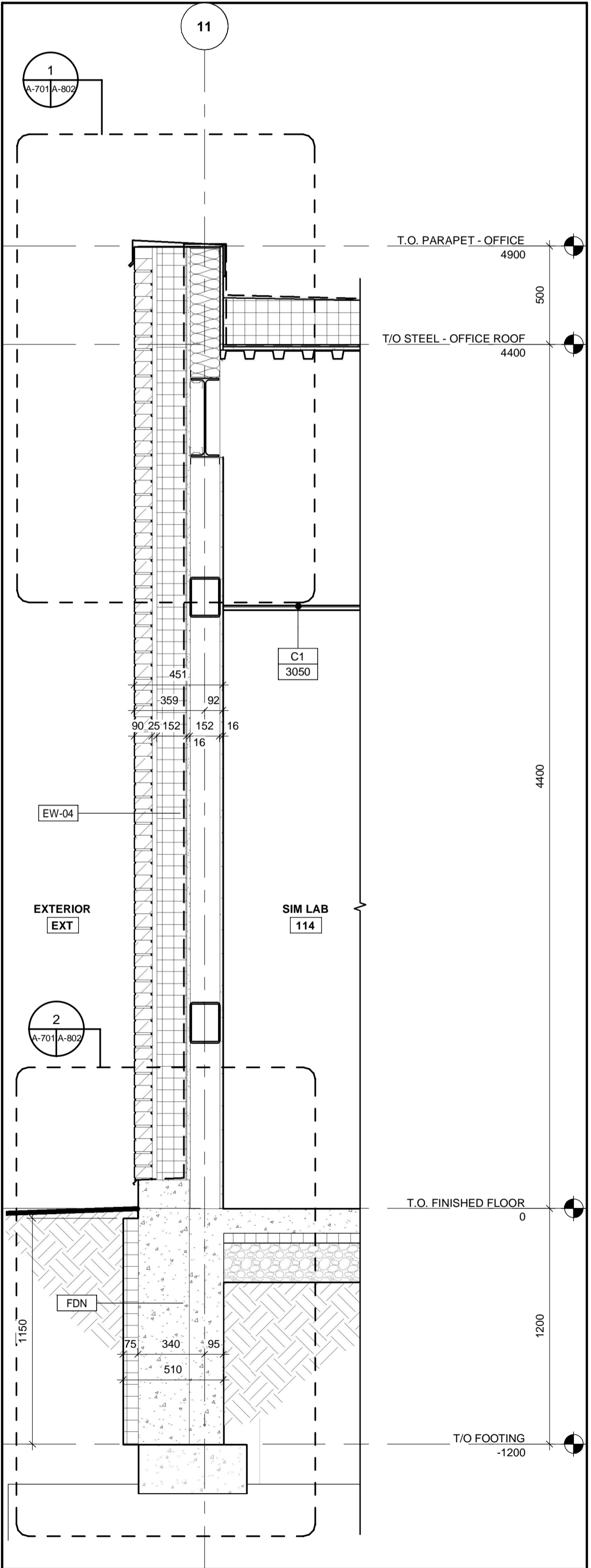
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 701 | SHEET NO. |



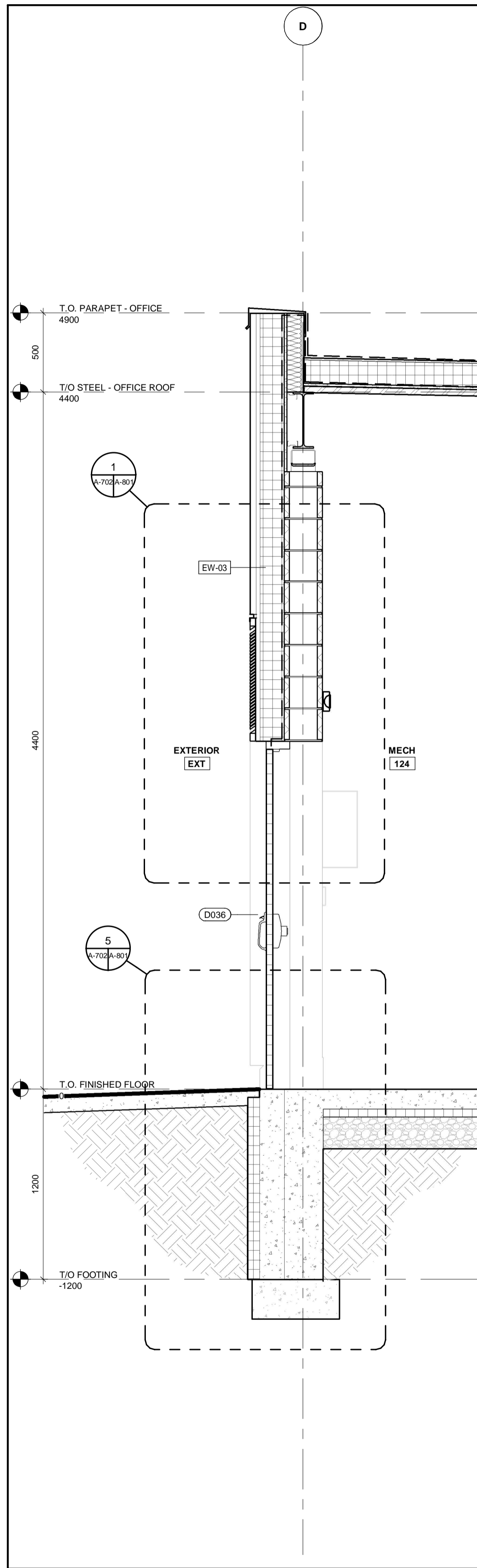
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A-200 A-701 1 : 20



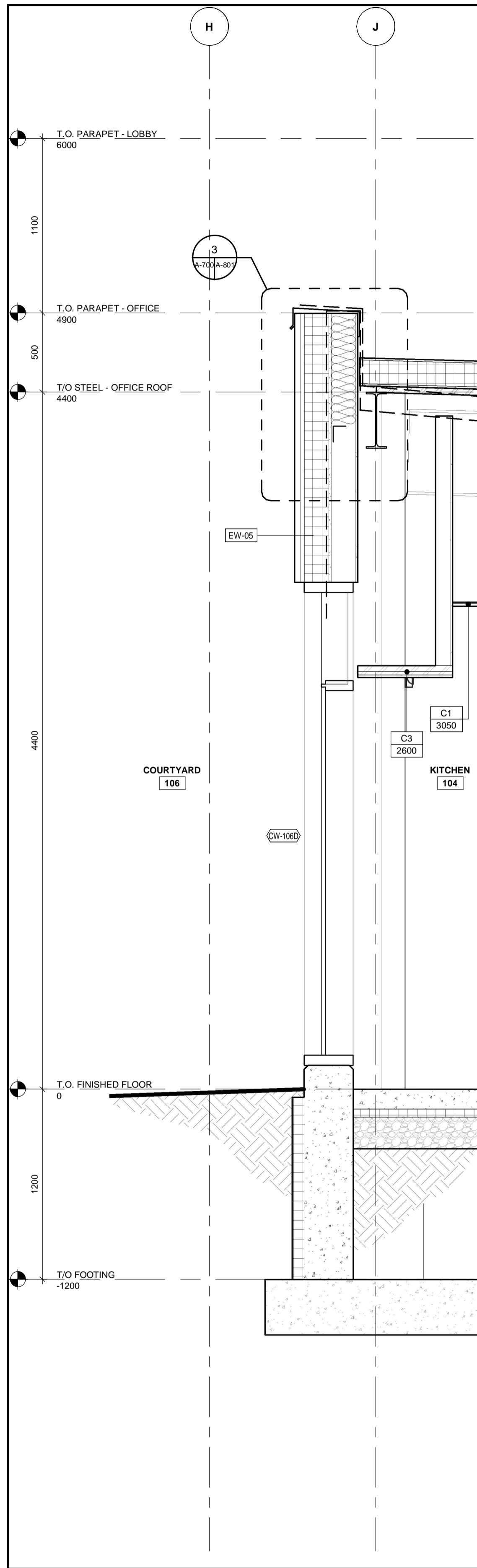
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A-200 A-701 1 : 20



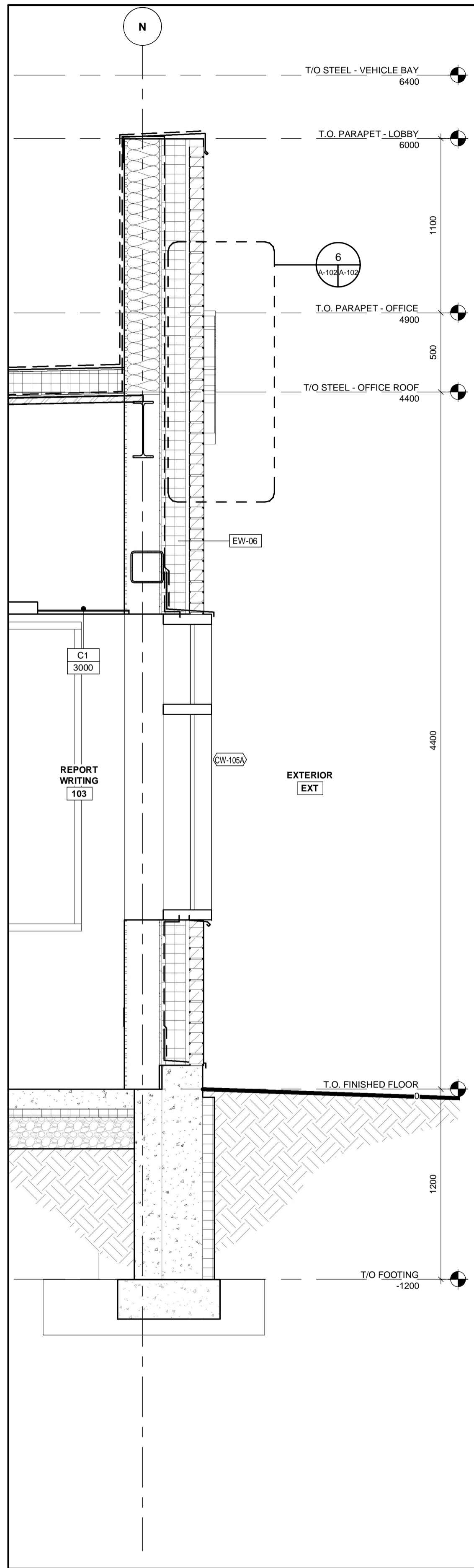
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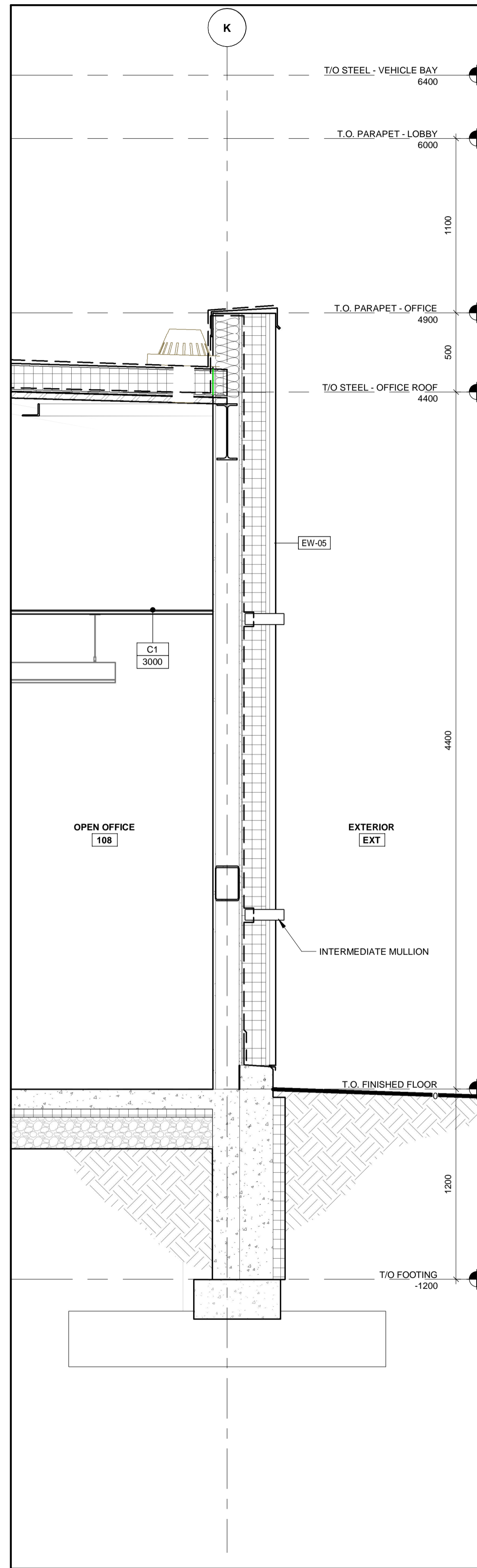
1 WALL SECTION
A-200 A-702 1 : 20



2 WALL SECTION
A-200 A-702 1 : 20



3 WALL SECTION
A-200 A-702 1 : 20





4 WALL SECTION
A-200 A-702 1 : 20

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.


1890 Fifth Concession Rd

| CONSULTANT REVISIONS | | | |
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| NO. | DATE | NAME | REVISIONS |
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| PRIME CONSULTANT |  AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com |  2022.03.14 ROY HOWARD TURNER LICENCE 4845 |
| SUB CONSULTANT | | |

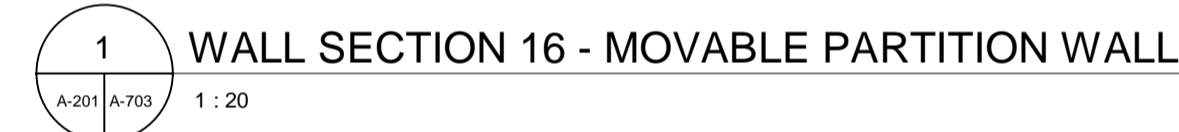
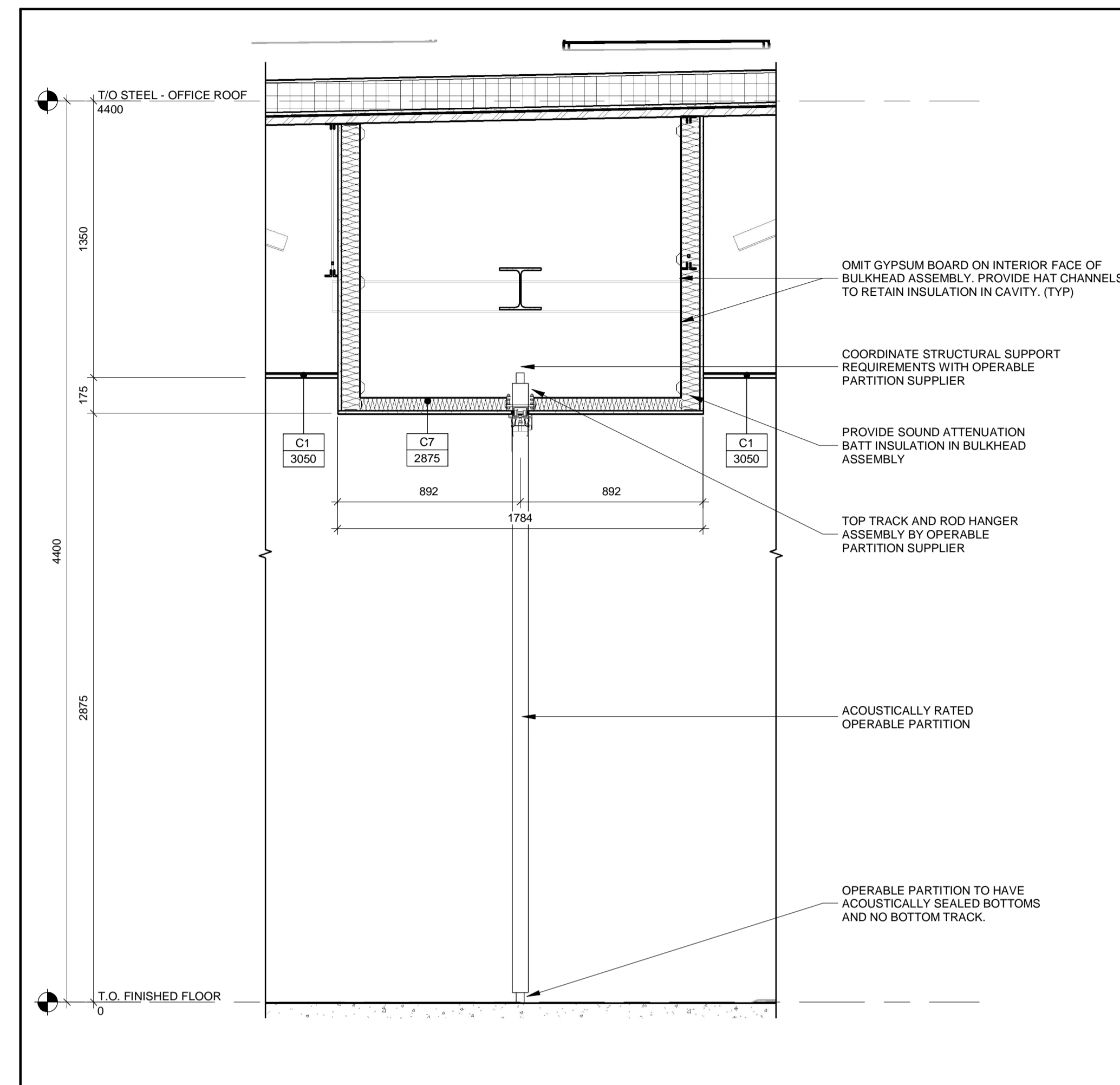
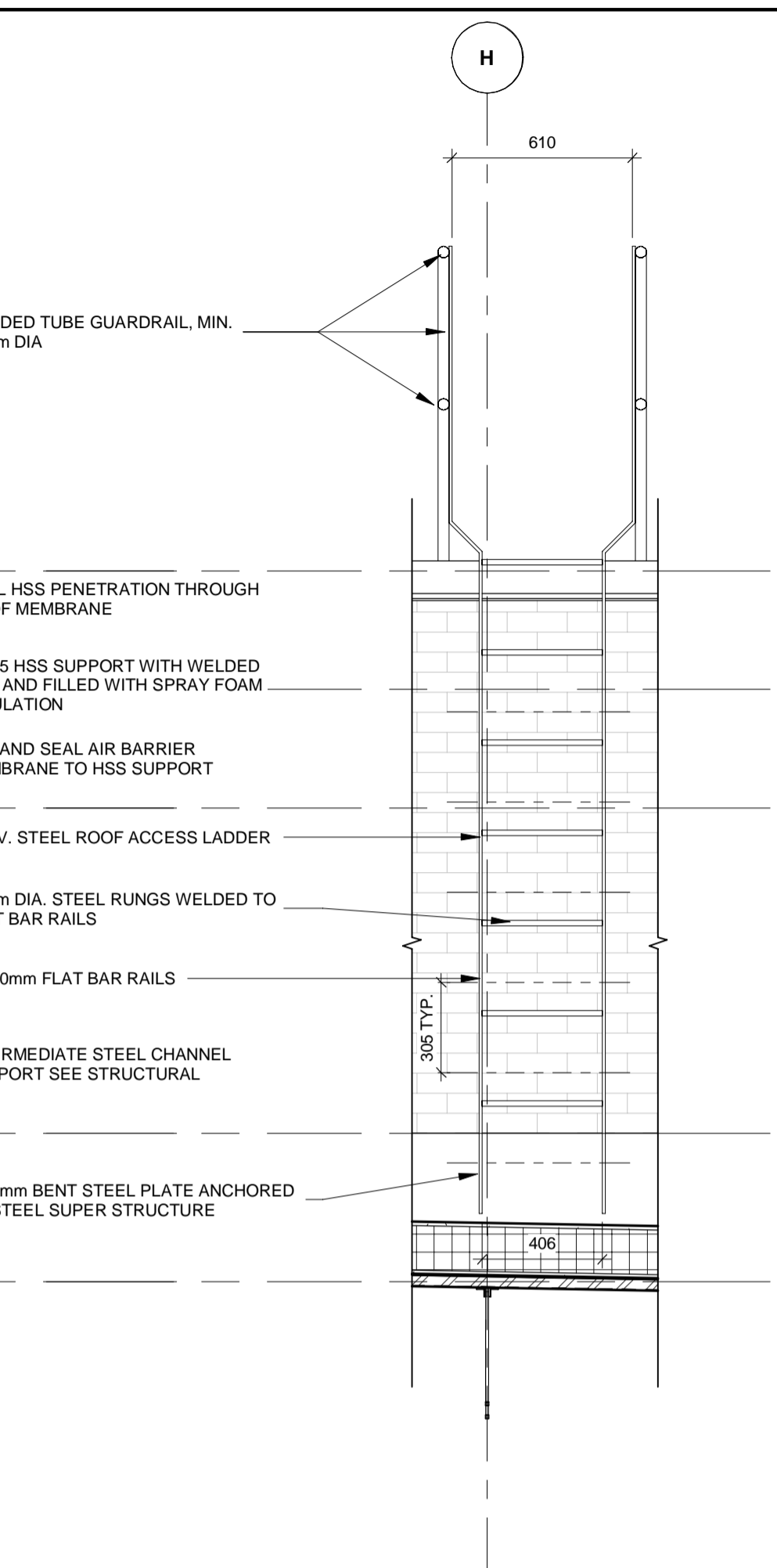
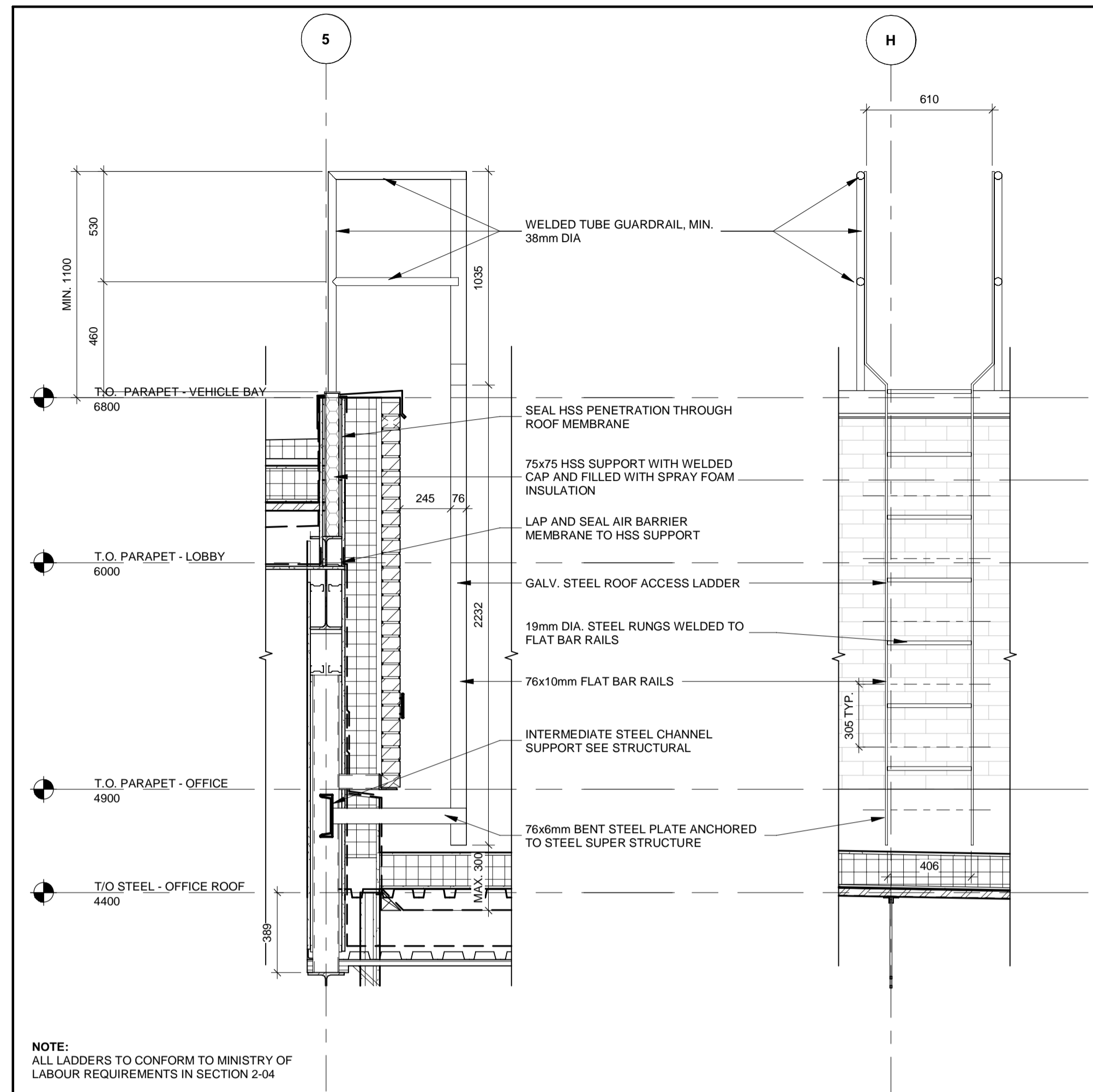
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| DESIGN BY: Designer | SCALE: 1 : 20 |
| DRAWN BY: Author | DATE: 03/01/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
|--------------------|------------|------|---------------------------|
| NO | DATE | NAME | REVISIONS |
| 3 | 03/14/2022 | | ISSUED FOR CONSTRUCTION |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

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|  | THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT DESIGN, CONSTRUCTION & ASSET MANAGEMENT |
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NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
WALL SECTIONS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 702 | SHEET NO. |



ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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| NO. | DATE. | NAME | REVISIONS | |

[illegible]**AECOM**

AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

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| | SUB CONSULTANT |
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| DESIGN BY: Designer | SCALE: 1 : 20 |
| DRAWN BY: Author | DATE: 03/03/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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| CONTRACT REVISIONS | | | | |
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| | 3 | 03/14/2022 | ISSUED FOR CONSTRUCTION | |
| | 2 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| | 1 | 09/22/21 | ISSUED FOR TENDER | |
| | NO | DATE | NAME | REVISIONS |

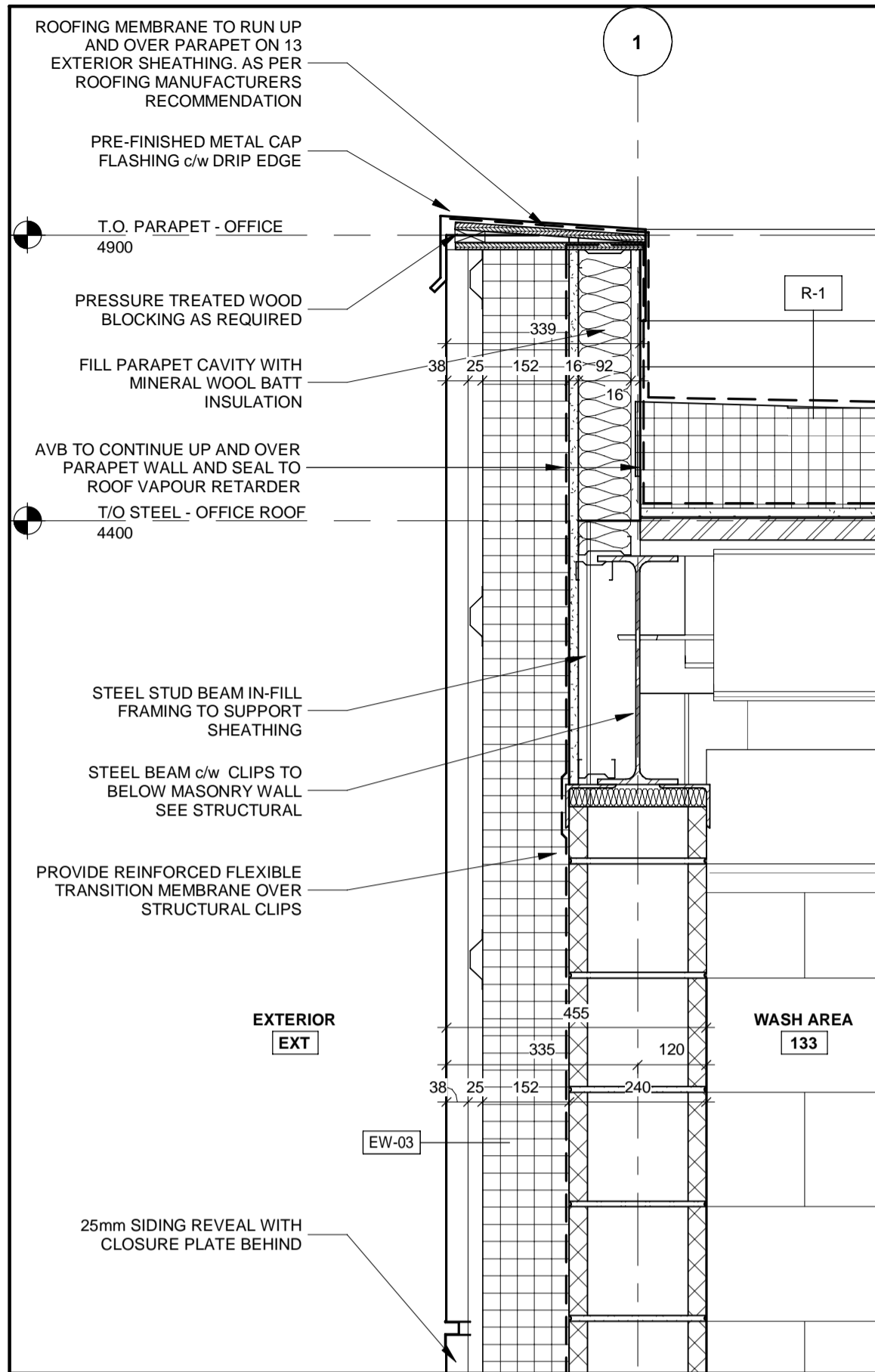


THE REGIONAL MUNICIPALITY
OF DURHAM

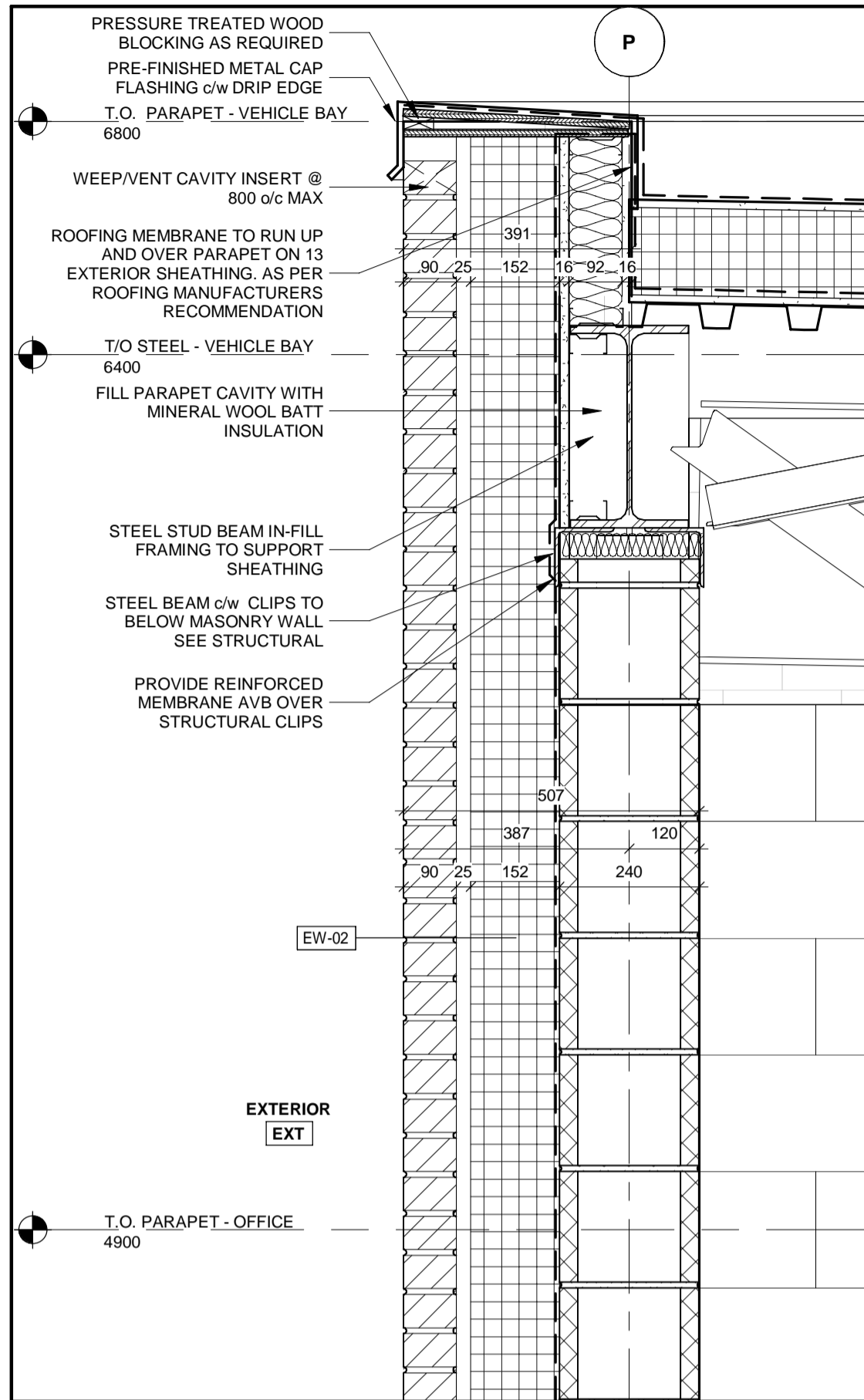
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
WALL SECTIONS

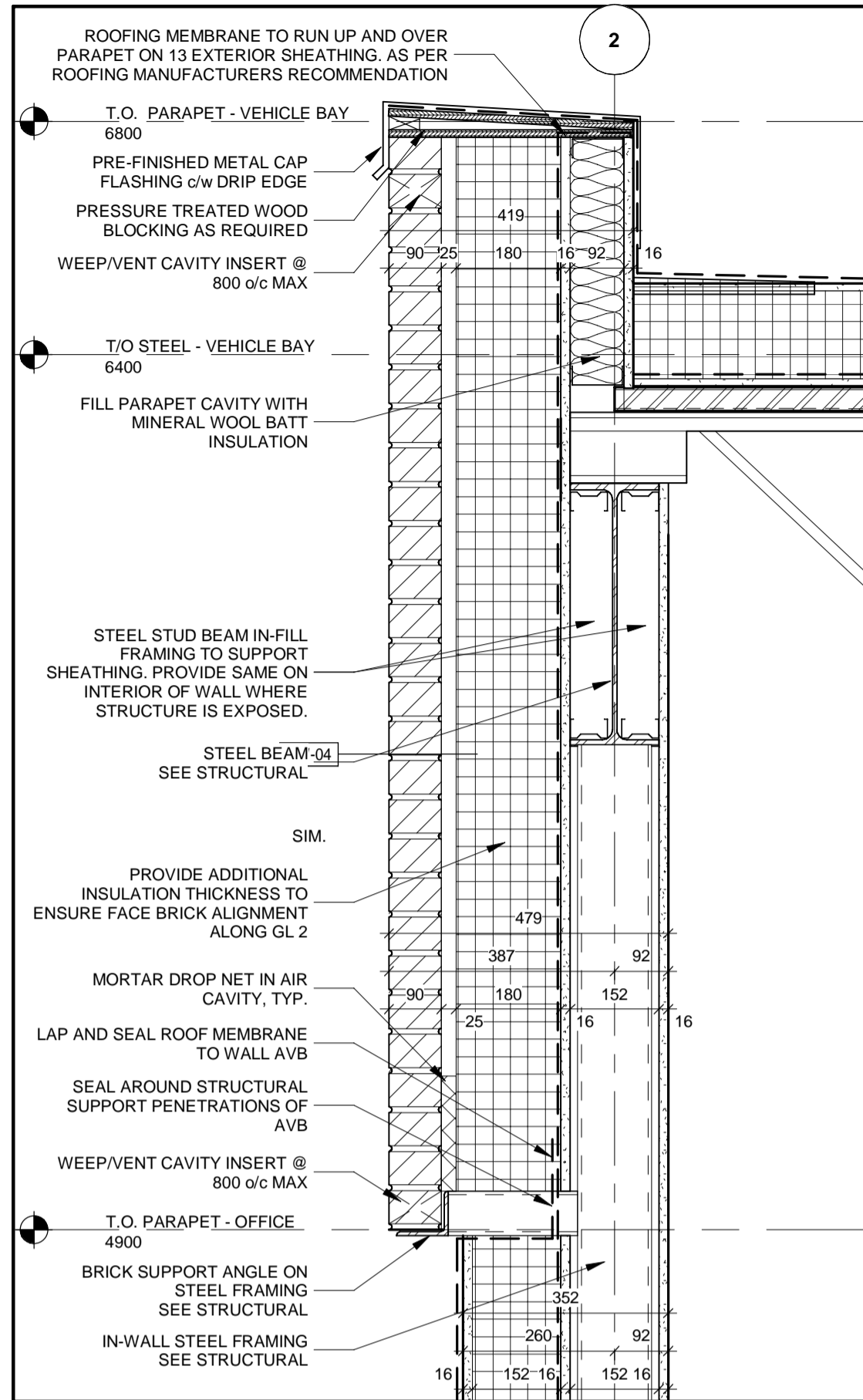
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 703 | SHEET NO. |



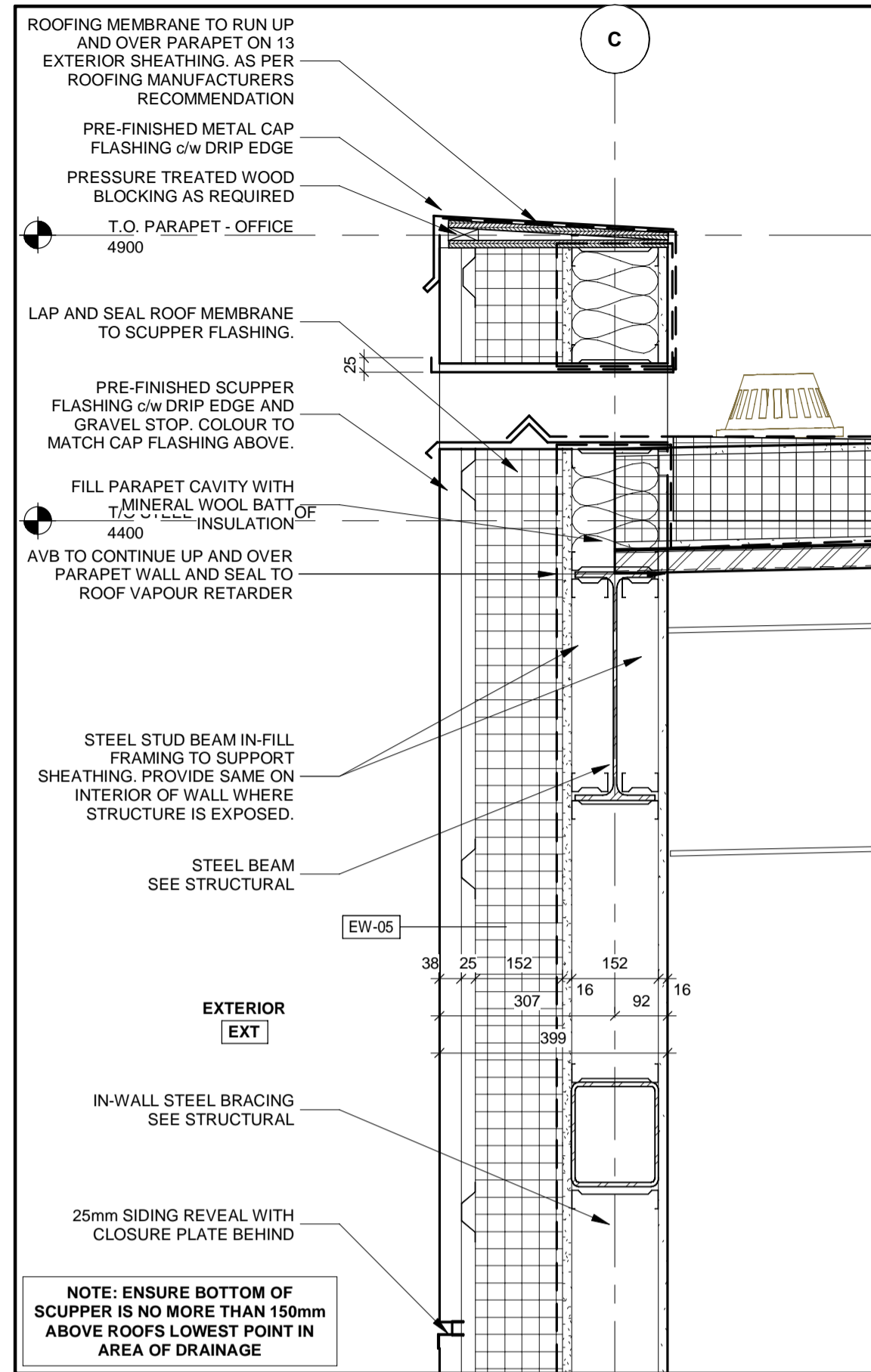
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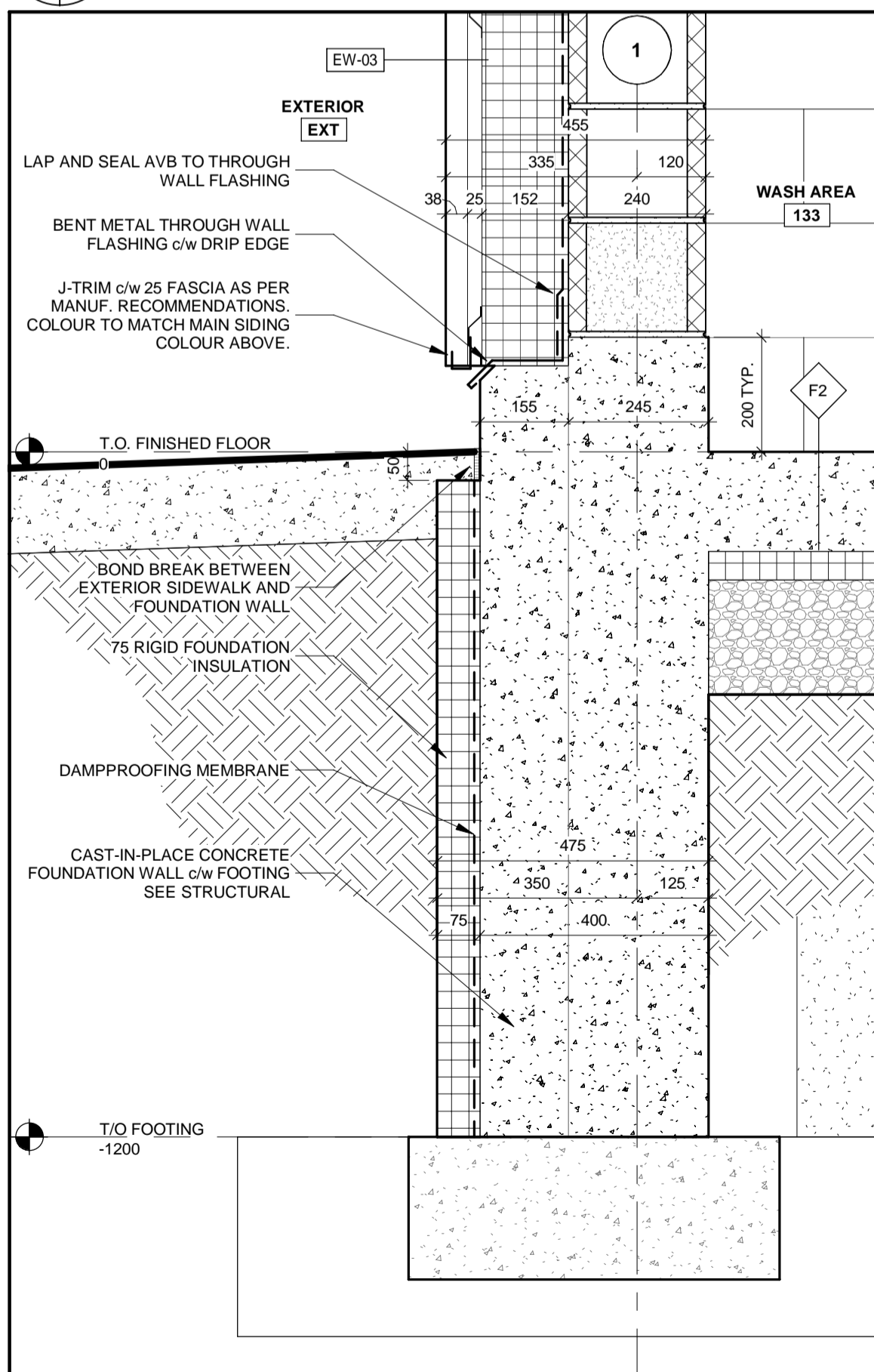
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A-701 A-800 1 : 10



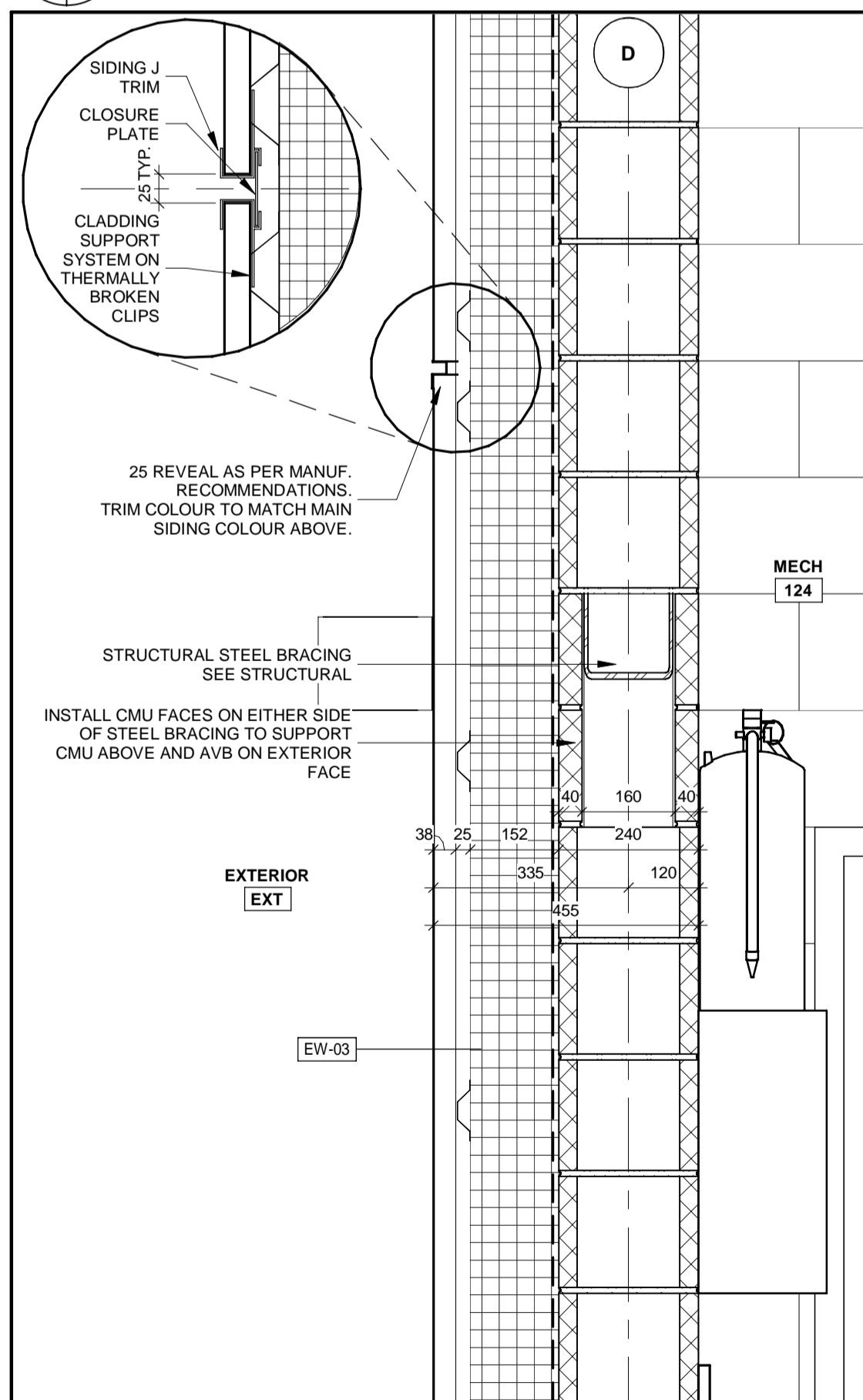
3 TYPICAL PARAPET - SCUPPER AT VEHICLE BAY
A-300 A-800 1 : 10



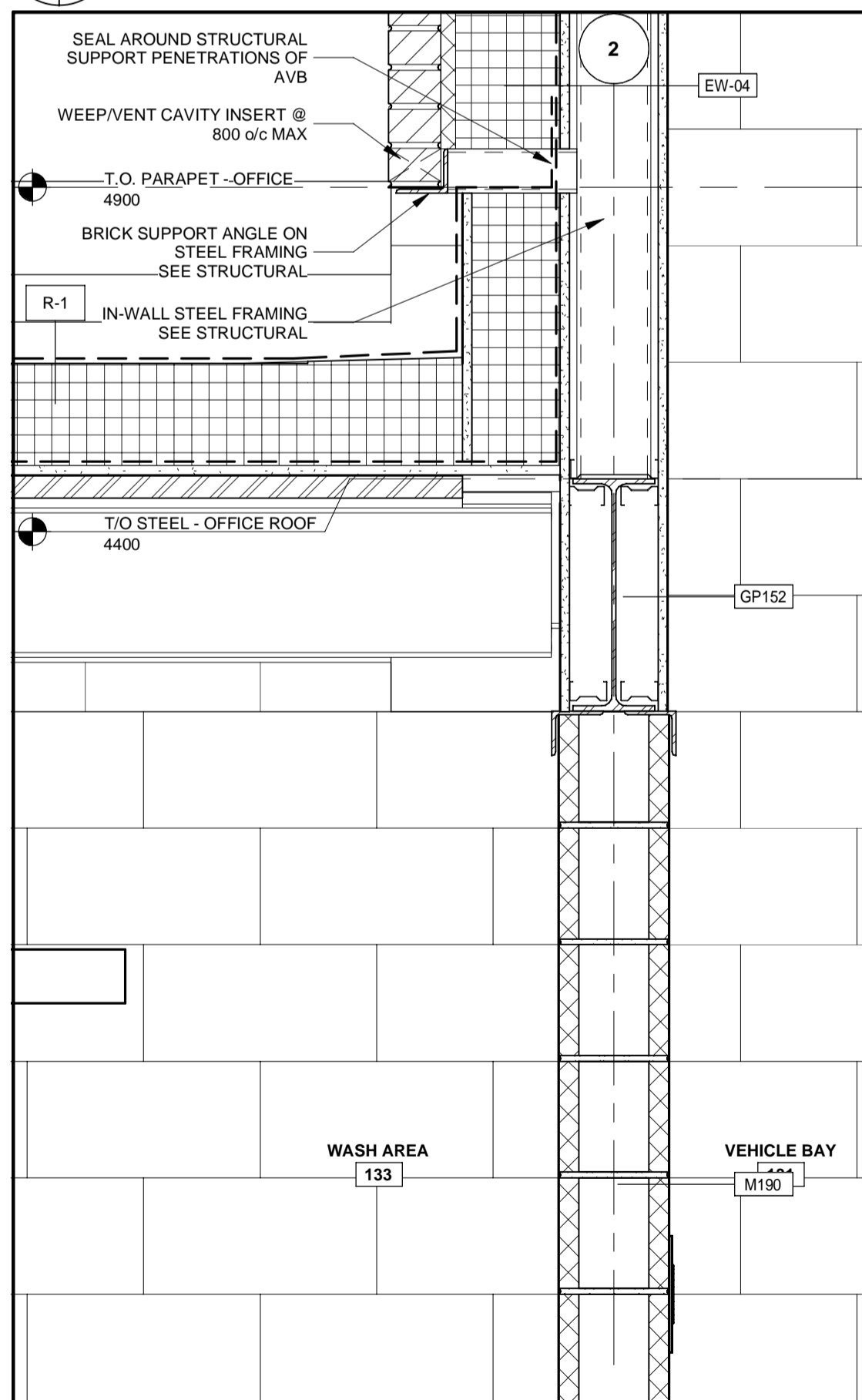
4 SECTION DETAIL
A-300 A-800 1 : 10



5 SECTION DETAIL
A-700 A-800 1 : 10



6 SECTION DETAIL
A-601 A-800 1 : 10



7 SECTION DETAIL
A-700 A-800 1 : 10

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1890 Fifth Concession Rd

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PRIME CONSULTANT

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www.aecom.com

2022.03.14
ONTARIO ASSOCIATION OF ARCHITECTS
ROY HOWARD TURNER
LICENCE 4845

| DESIGN BY: | JC / GG | SCALE: | 1 : 10 |
|--------------|---------|-------------------------|----------|
| DRAWN BY: | TH / MR | DATE: | 10/08/20 |
| CHECKED BY: | JC | CONSULTANT PROJECT NO.: | 60611569 |
| APPROVED BY: | RT | CLIENT FILE No.: | 811/20 |

| NO | DATE | NAME | REVISIONS |
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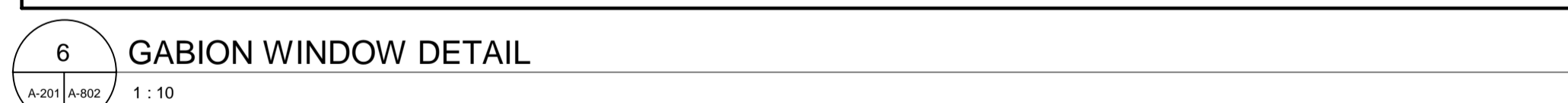
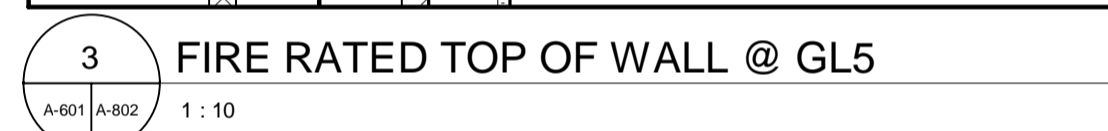
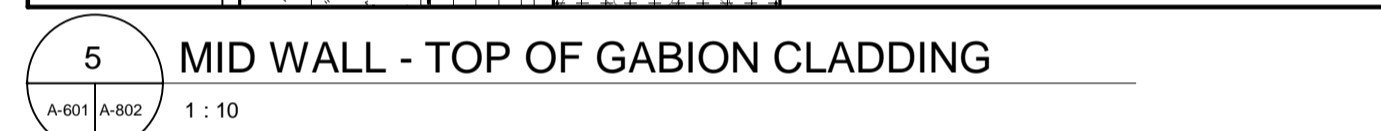
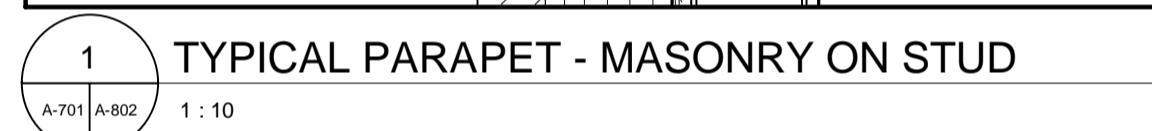
DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

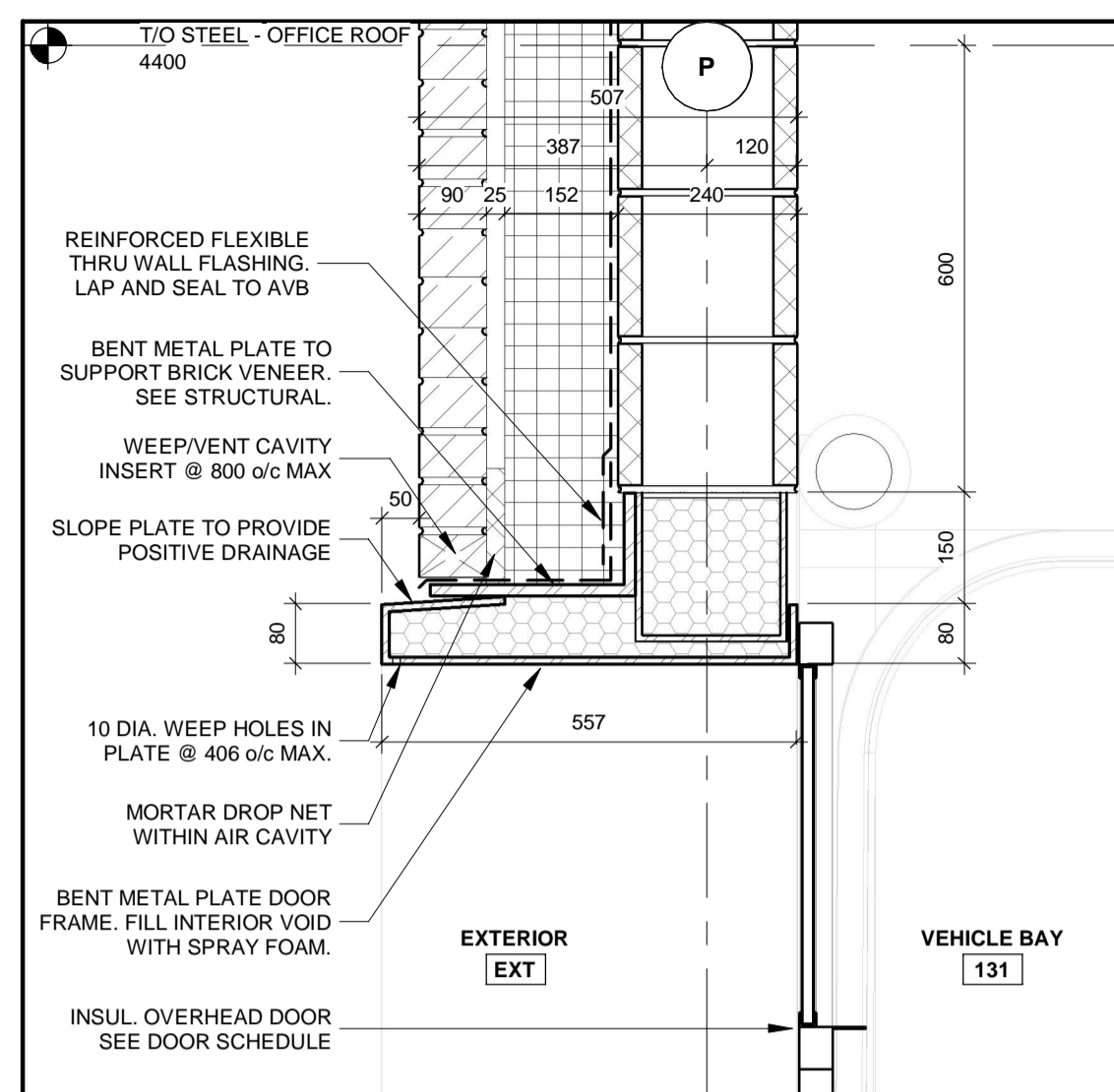
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING SECTION DETAILS

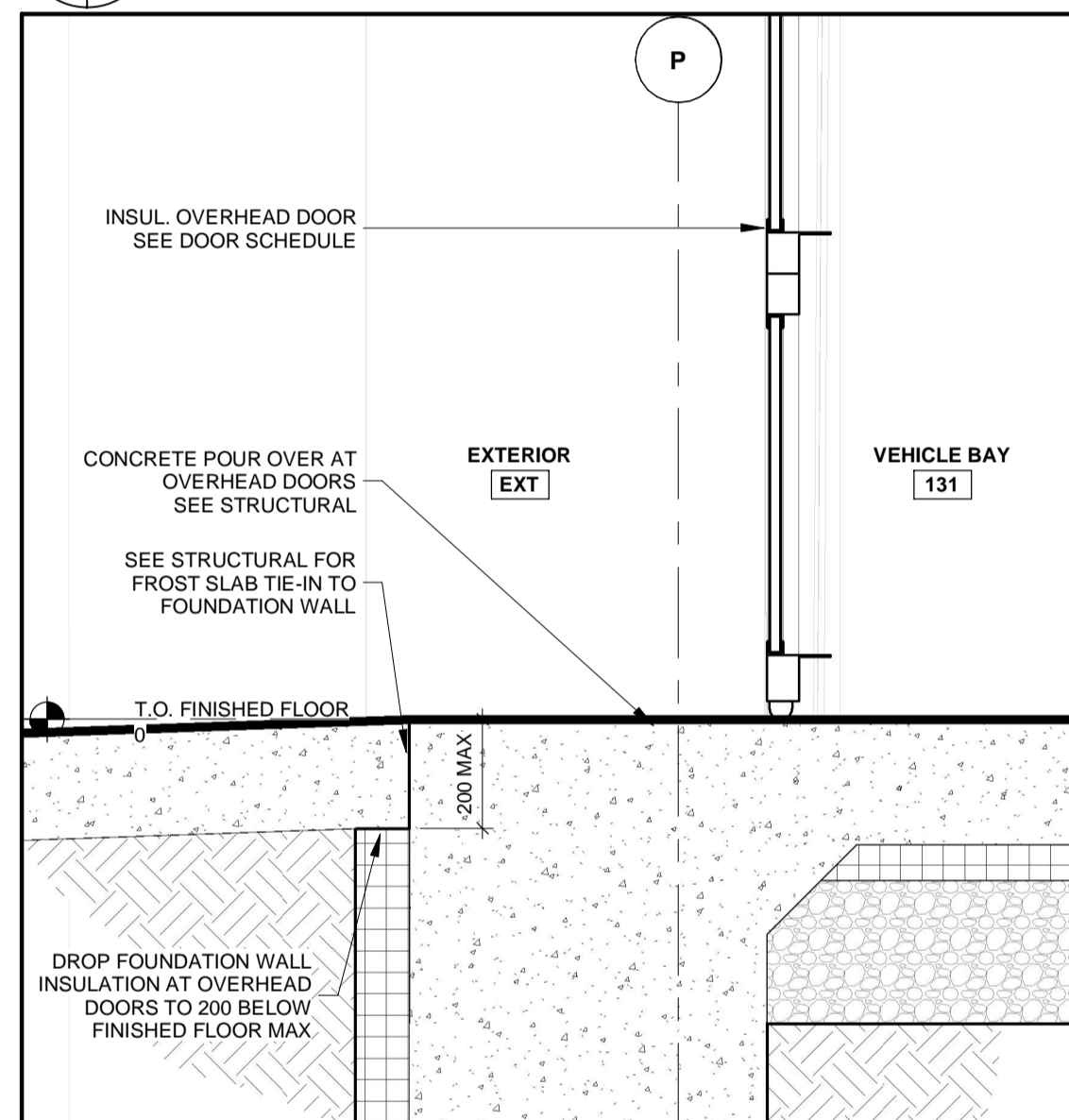
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| CONTRACT NO. | T- 1160- 2021 | DRAWING NO. | A- 800 | SHEET NO. | |




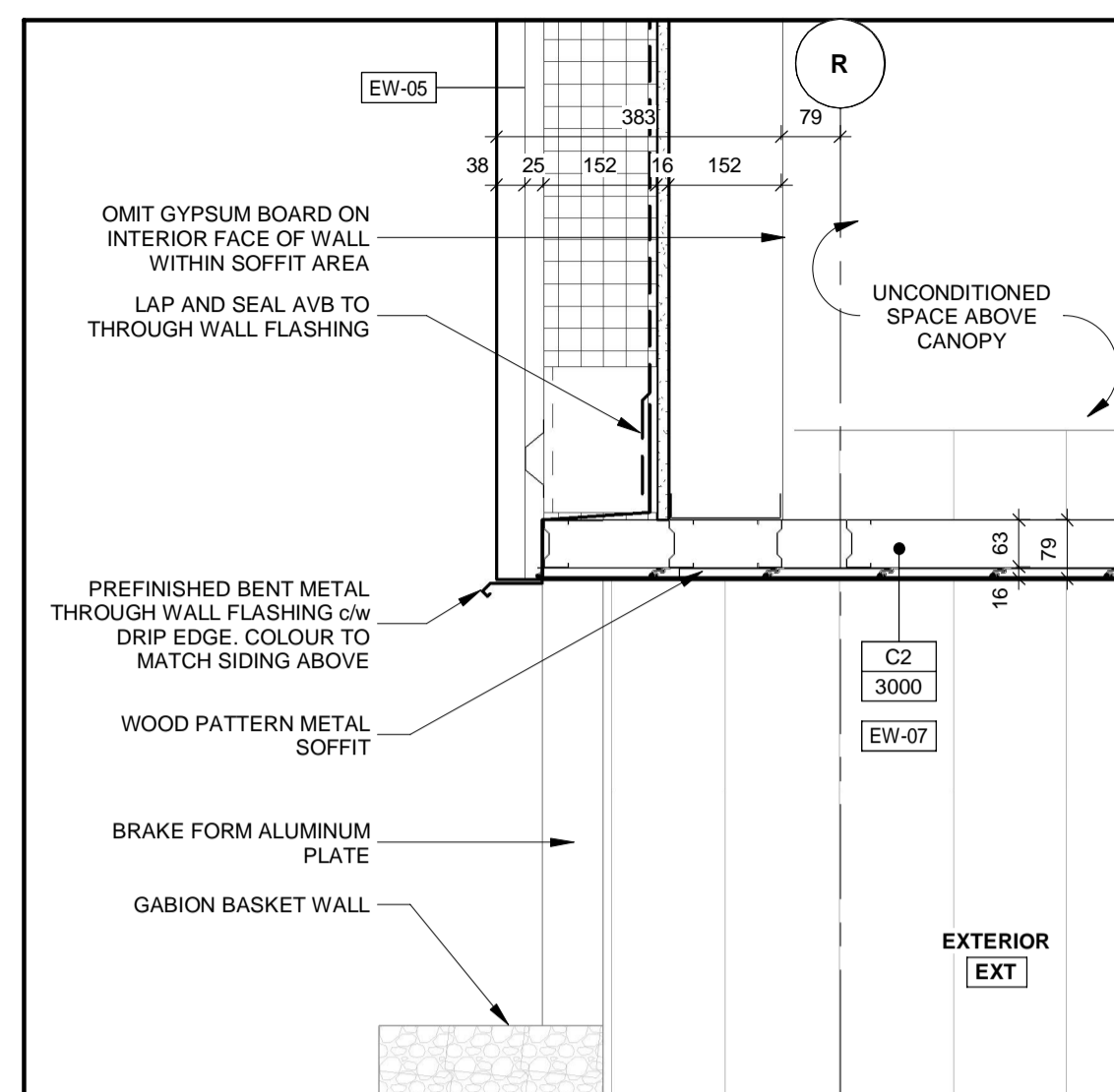
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 802 | SHEET NO. |



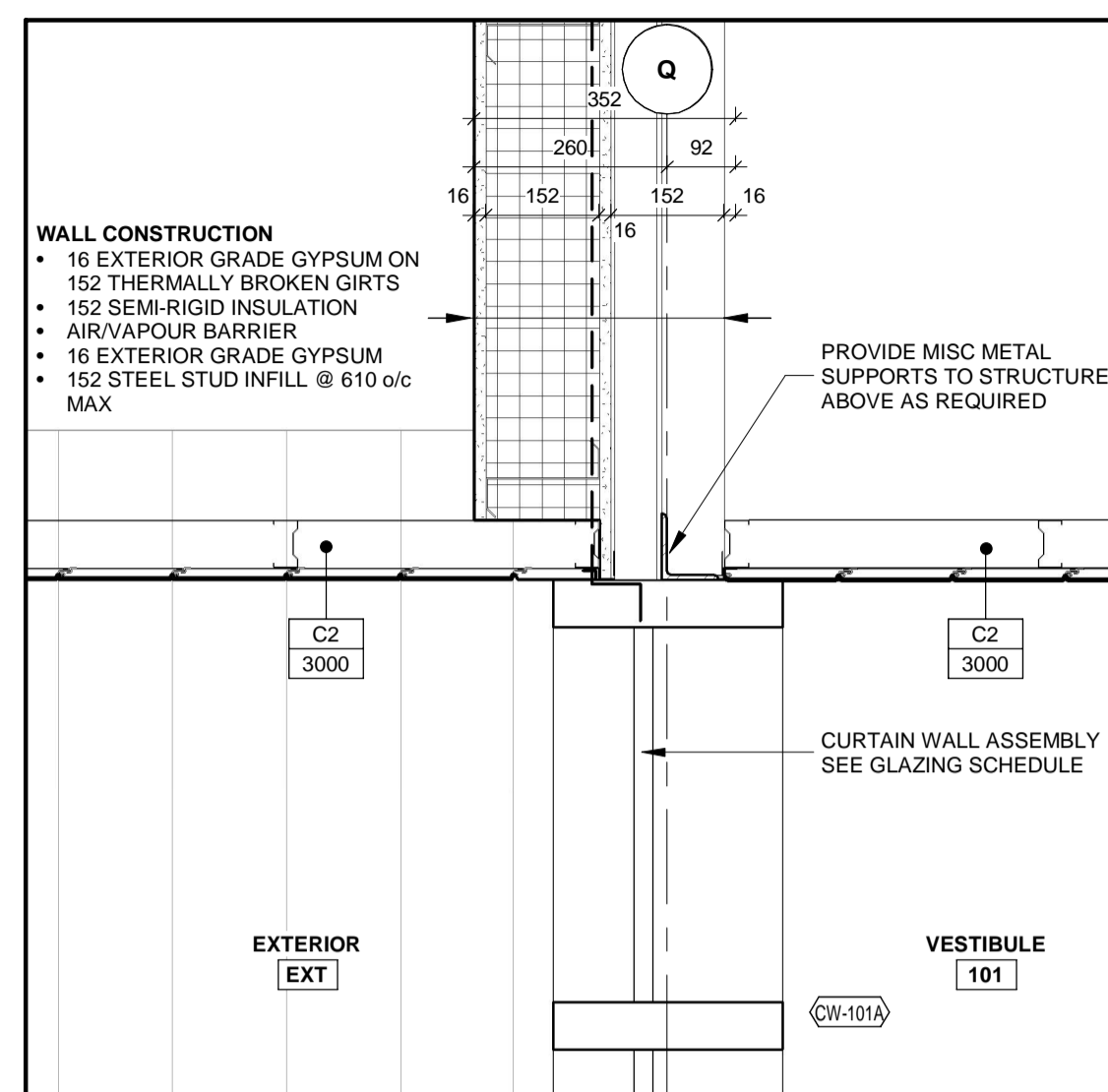
1 TOP OF OH DOOR
A-701 A-803 1 : 10



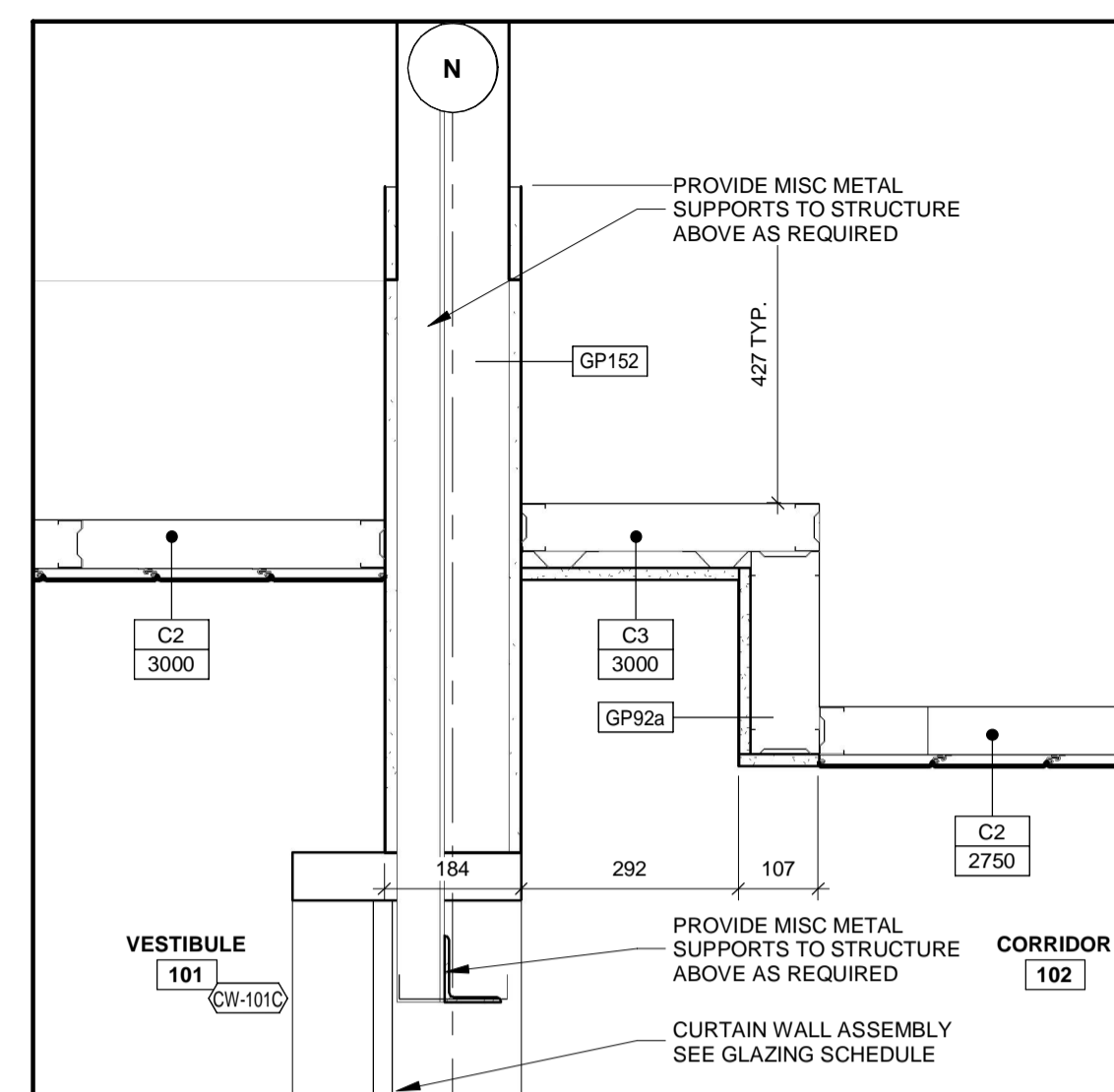
 **BOTTOM OF OH DOOR**
1 : 10



2 SOFFIT EDGE
A-701 A-803 1 : 10



3 SOFFIT AT GLAZING
A-701 A-803 1 : 10



4 VESTIBULE CEILING TOPLITE
A-701 A-803 1 : 10

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1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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PRIME CONSULTANT

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Kitchener, Ontario, N2P 0A4
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www.aecom.com



SUB CONSULTANT

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| DESIGN BY: Designer | SCALE: 1 : 10 |
| DRAWN BY: Author | DATE: 06/08/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

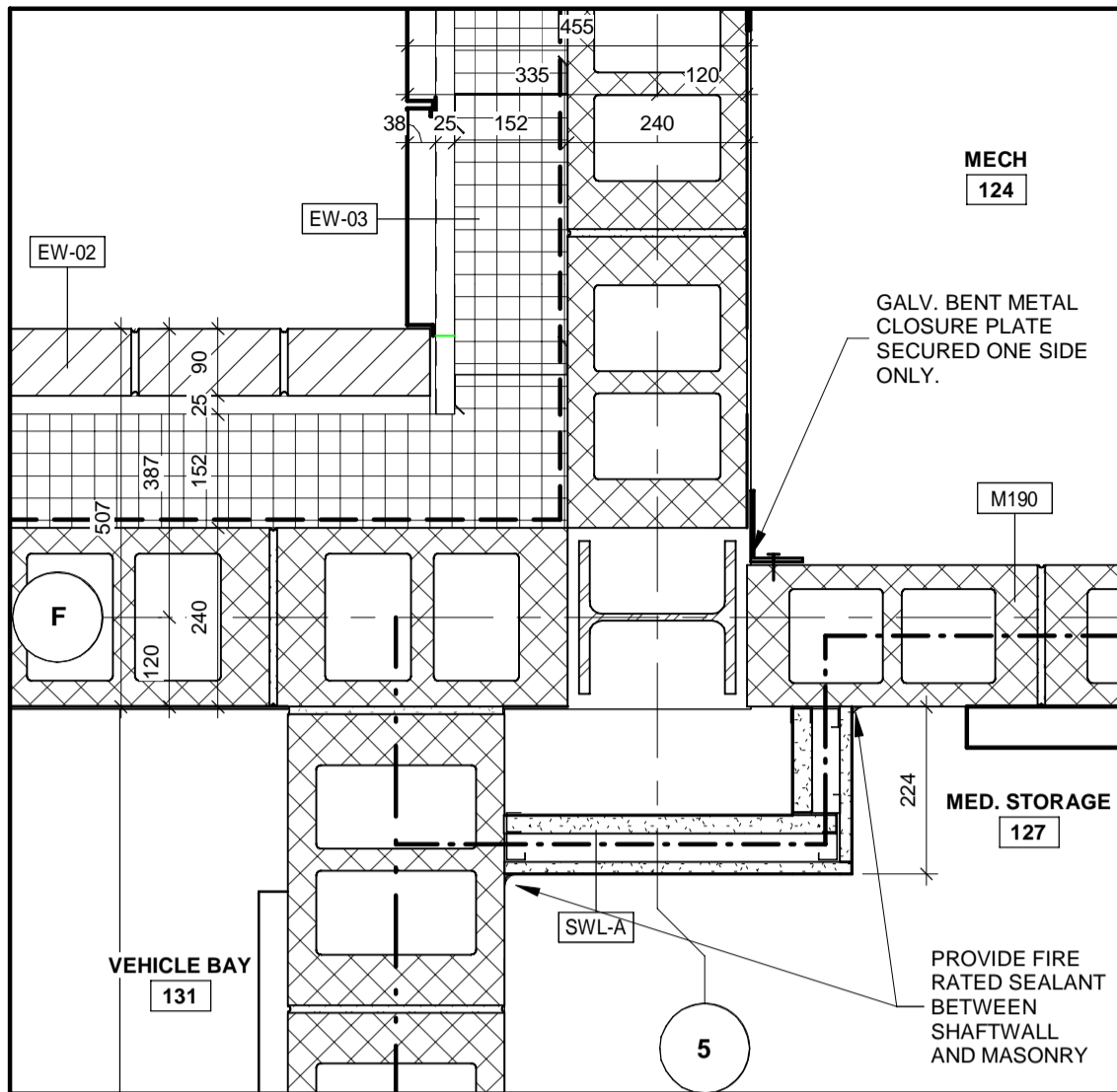
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THE REGIONAL MUNICIPALITY
OF DURHAM

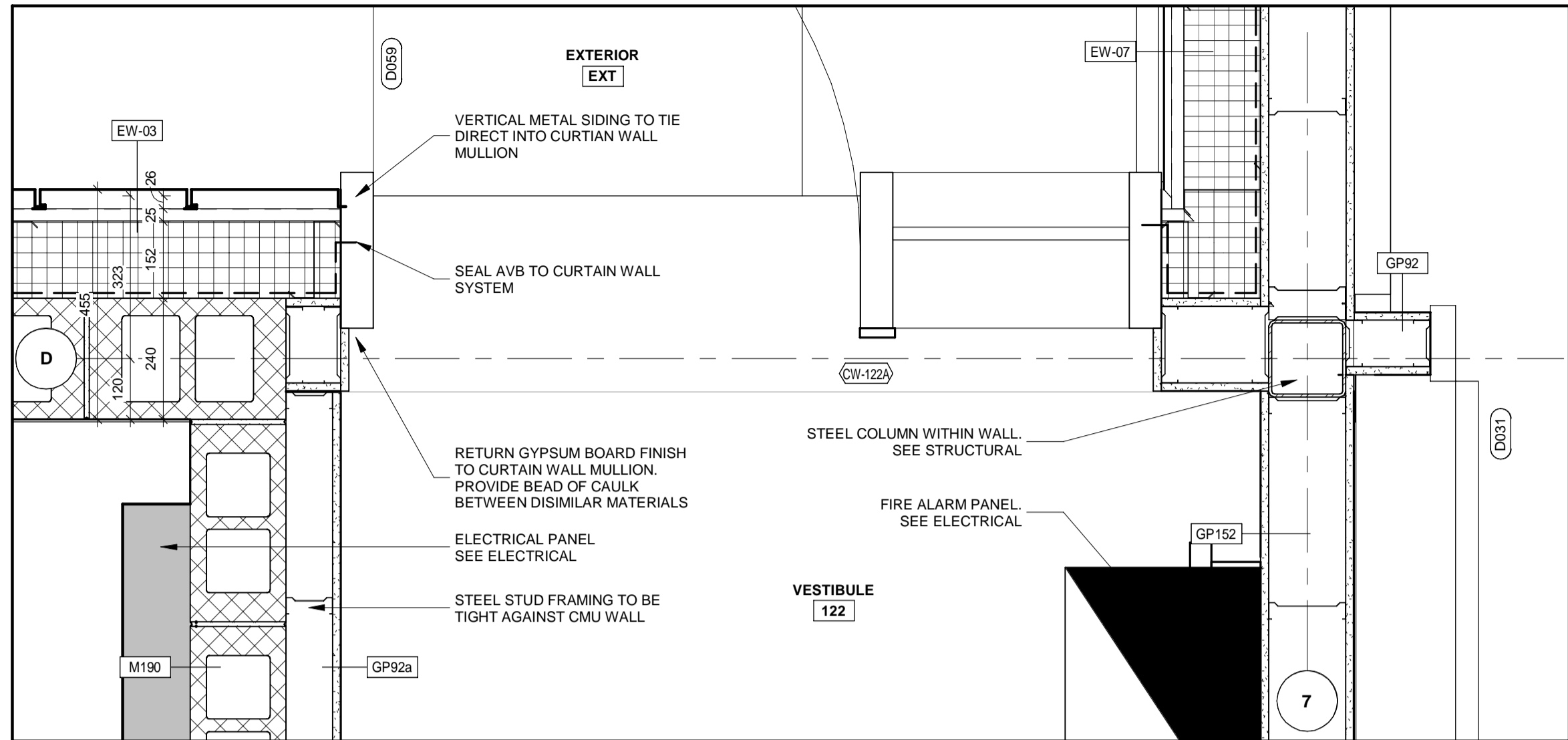
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING SECTION DETAILS

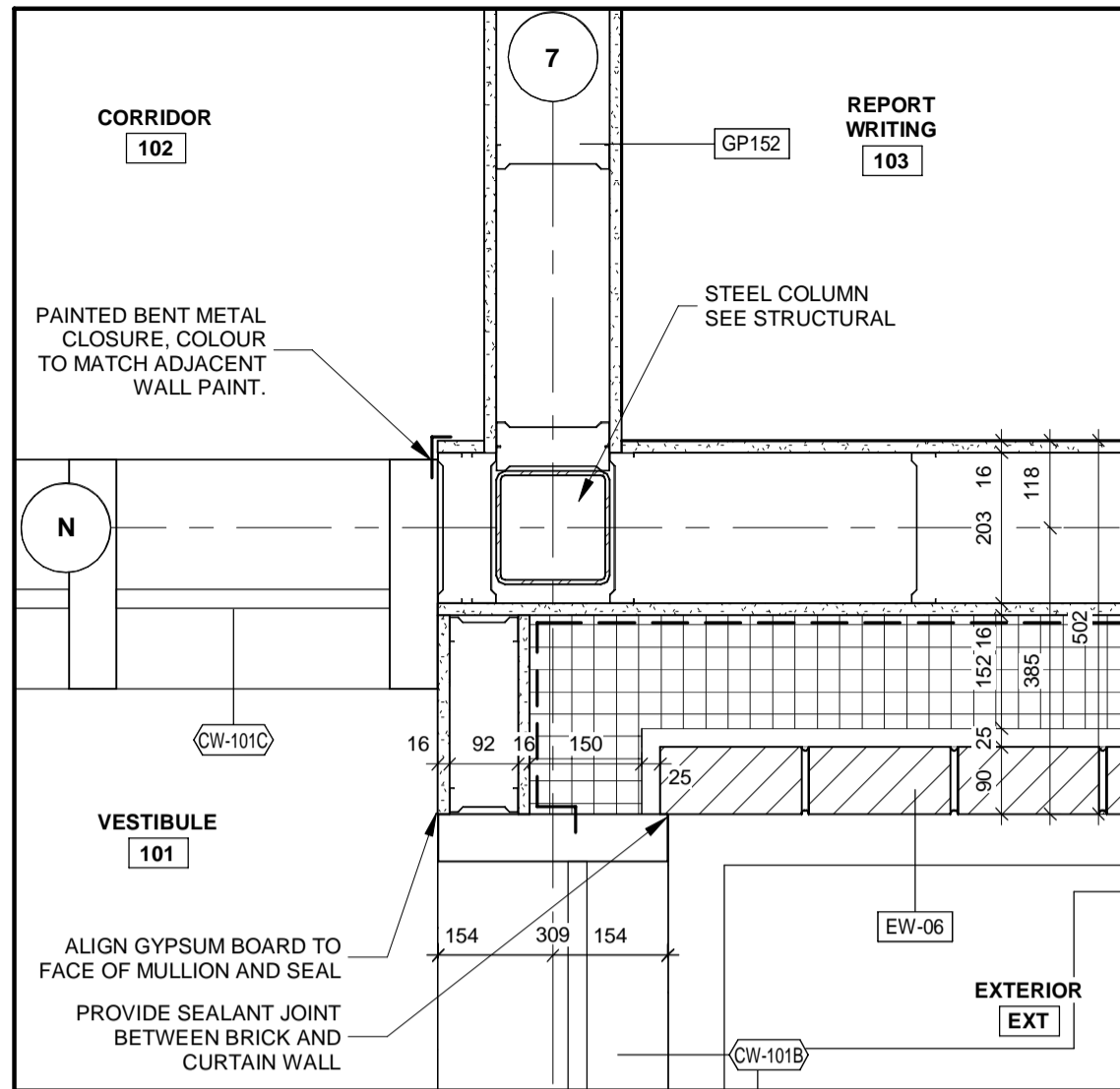
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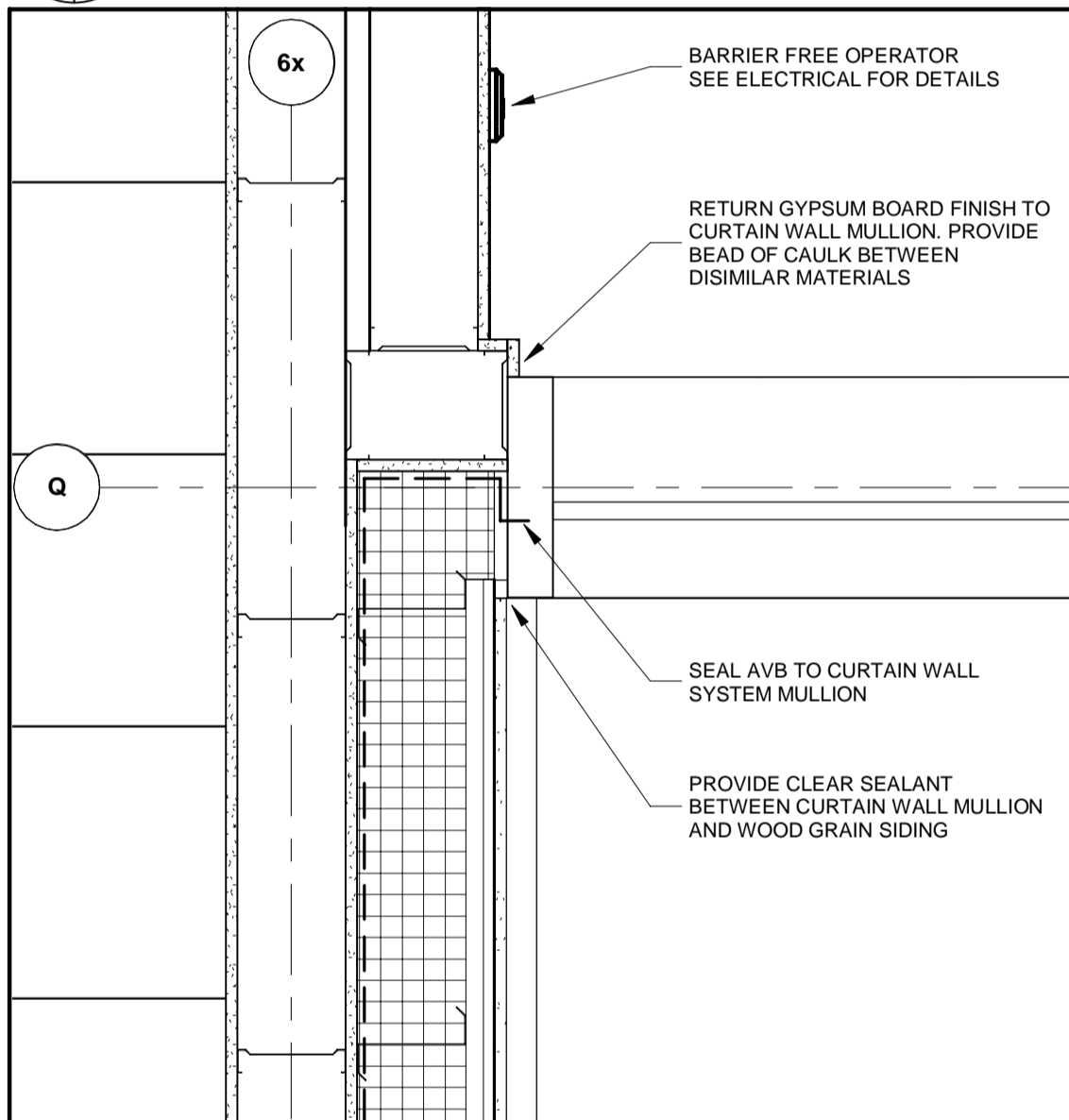
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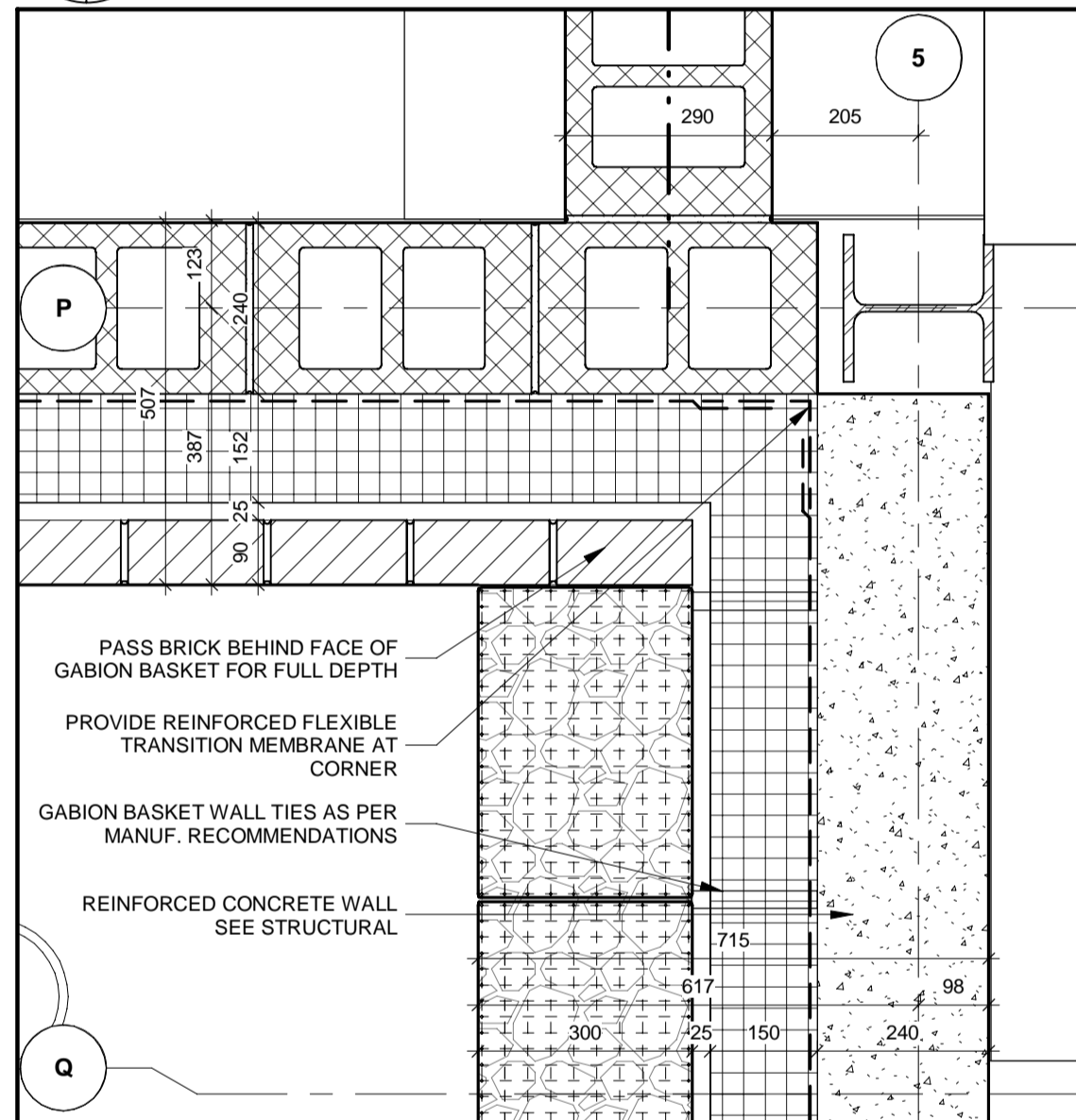
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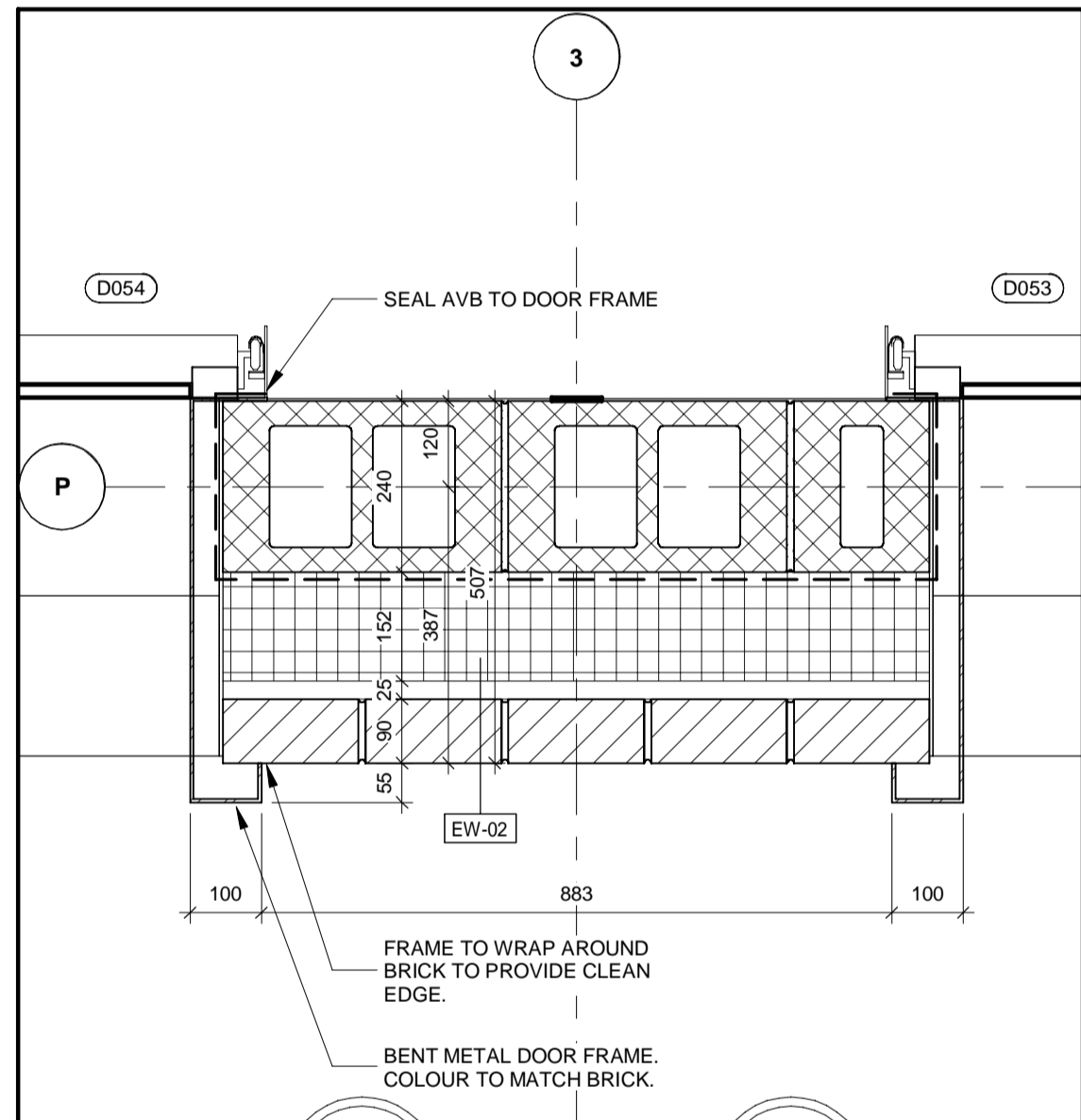
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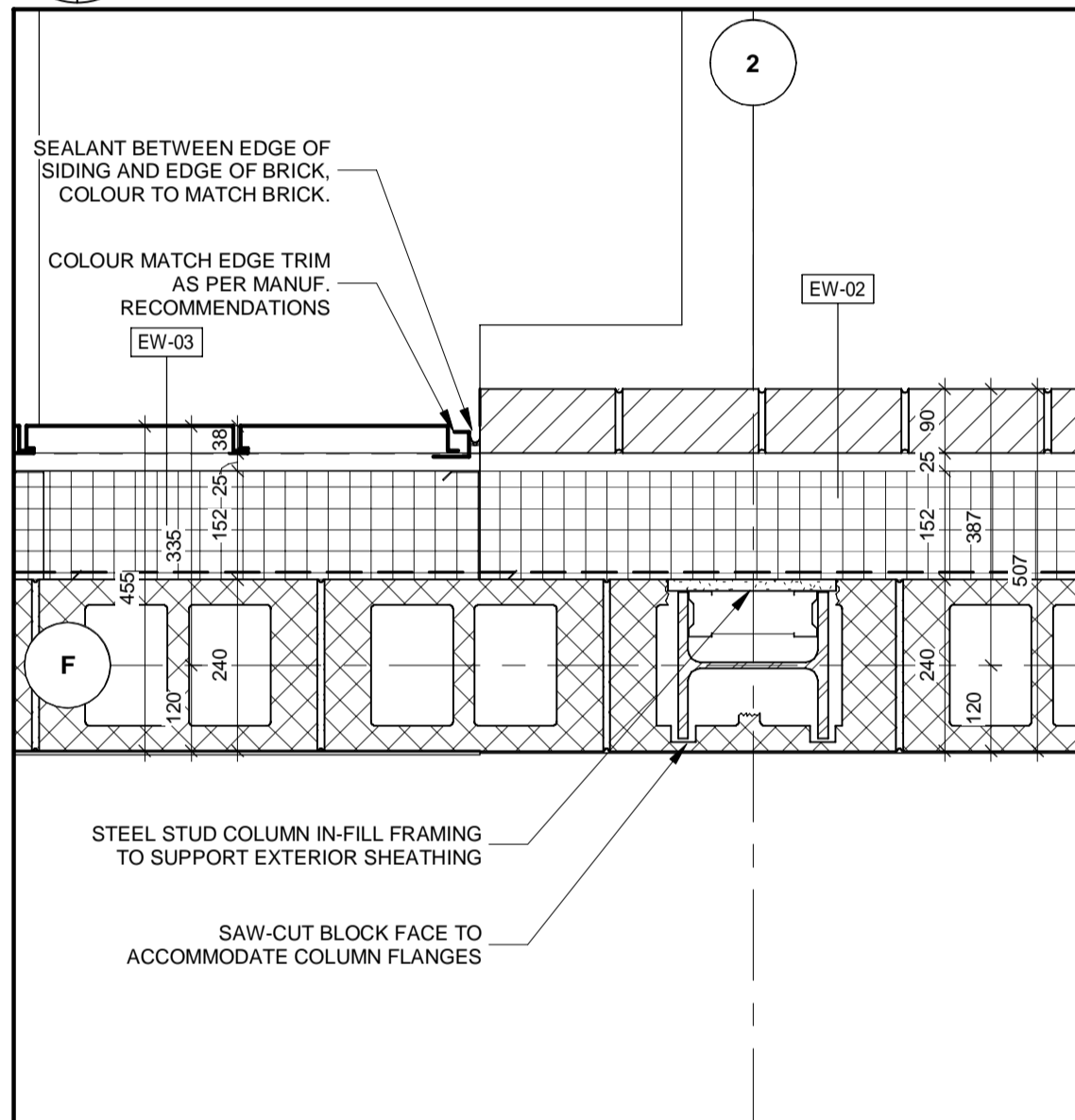
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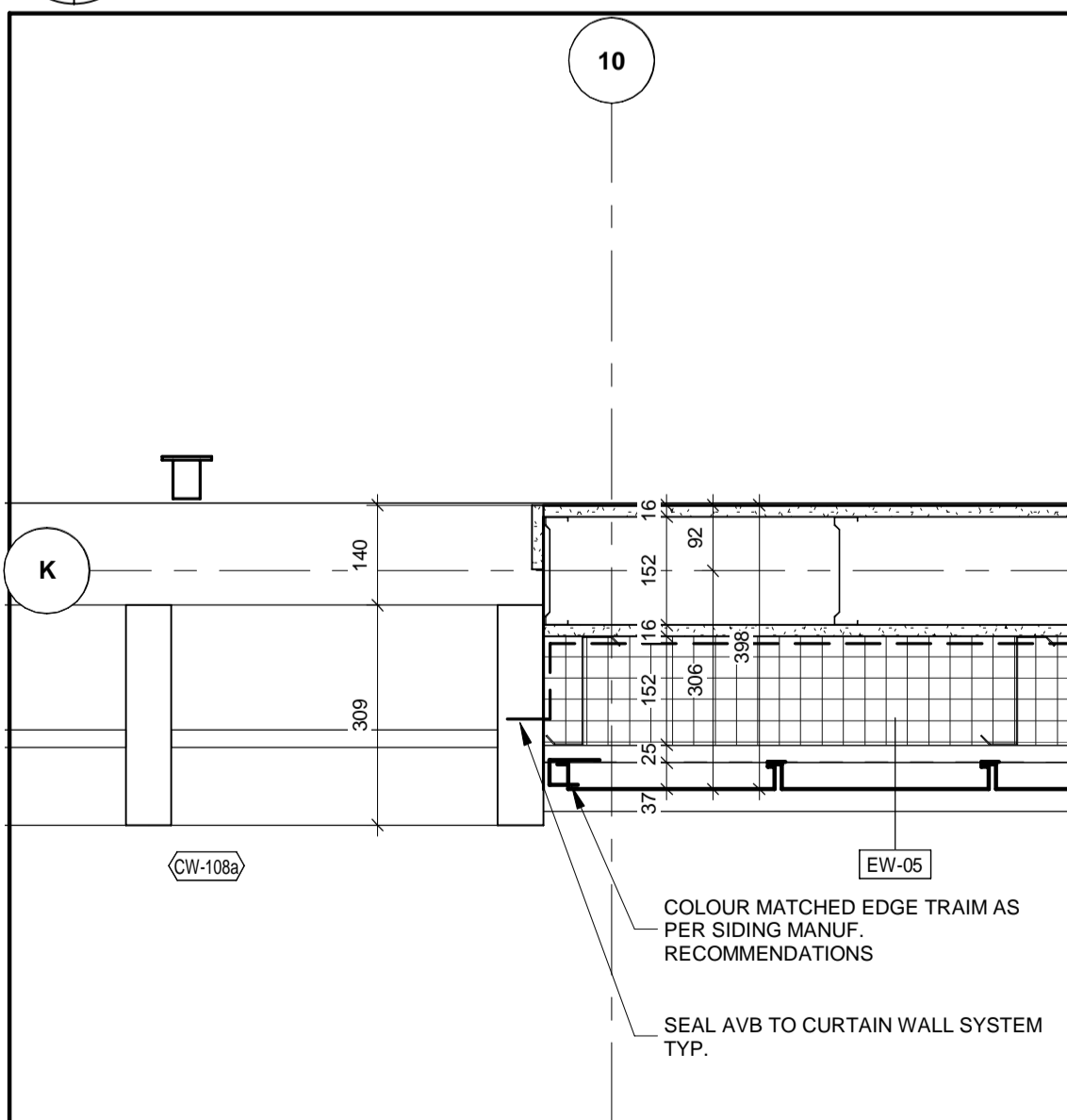
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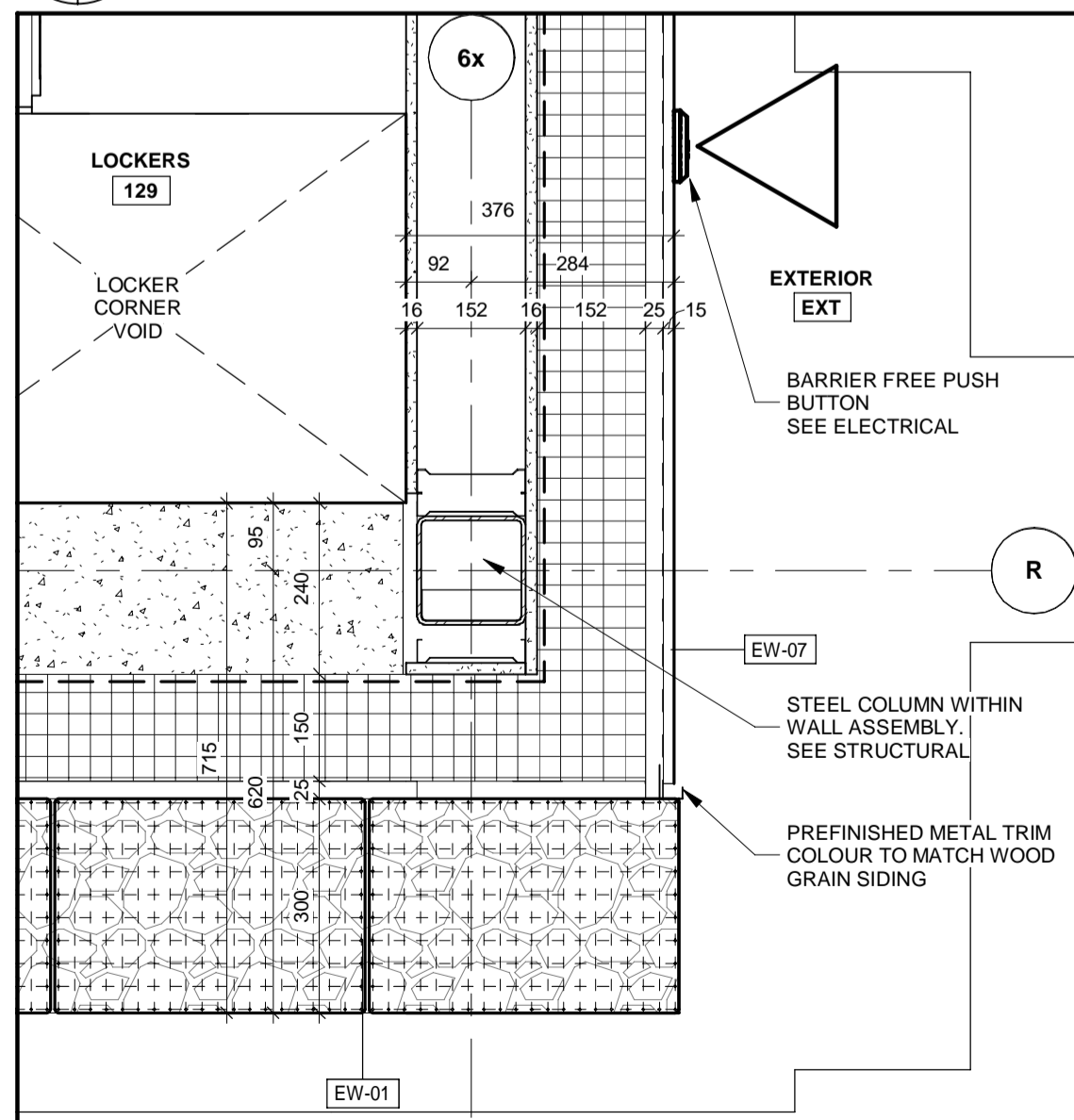
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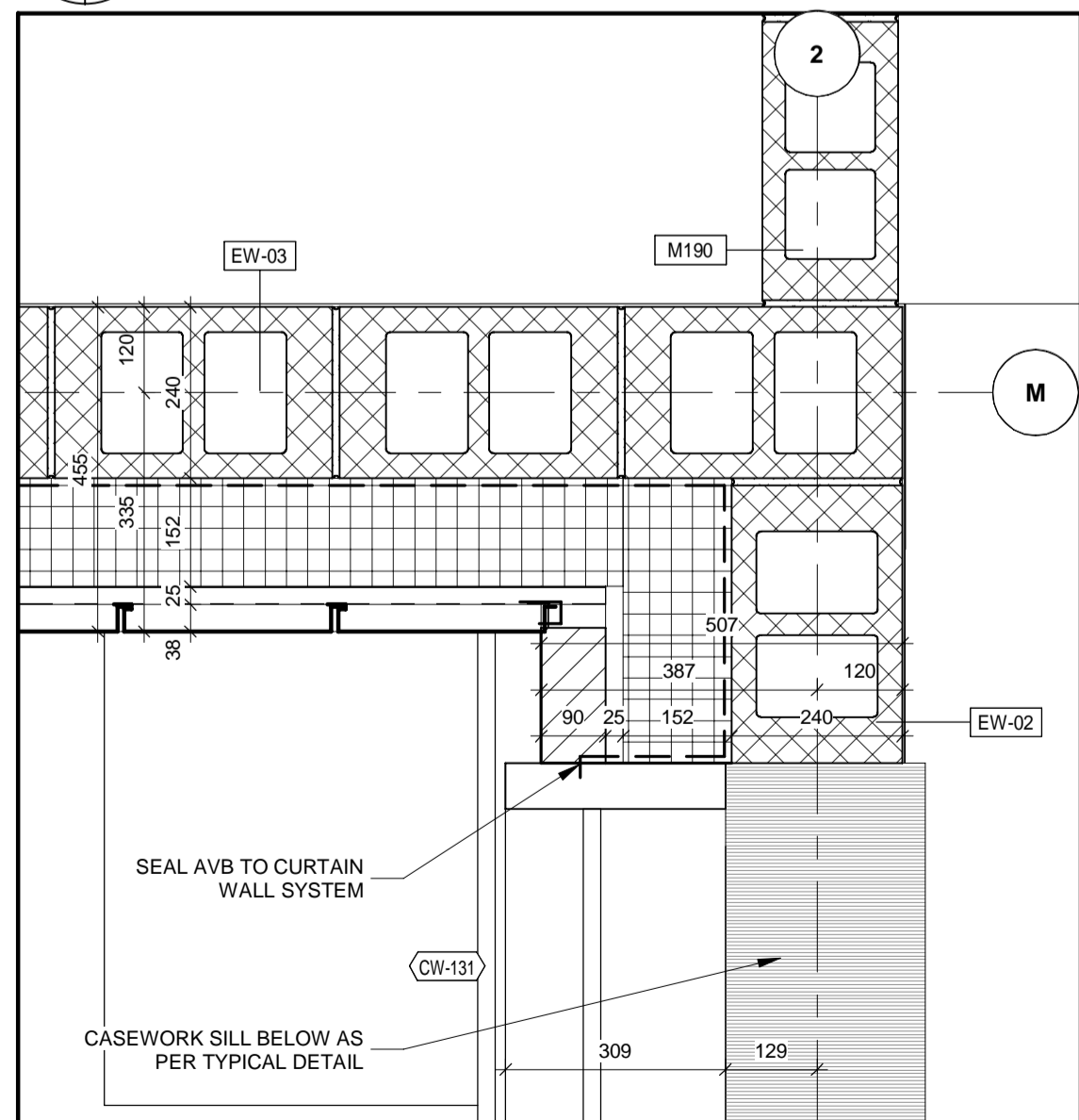
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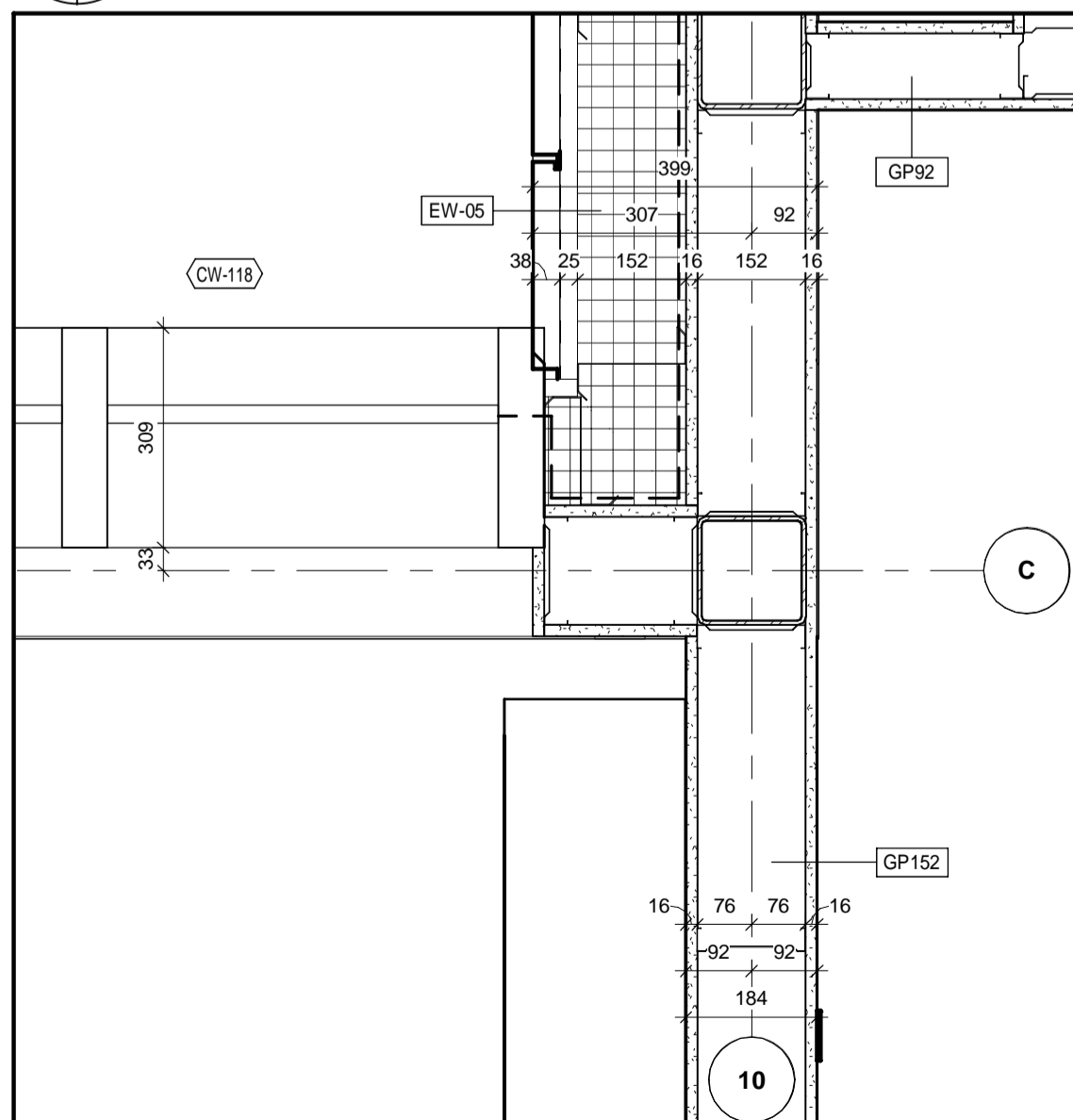
8 PLAN DETAIL
A-201 A-804 1 : 10



9 PLAN DETAIL
A-201 A-804 1 : 10



10 PLAN DETAIL
A-201 A-804 1 : 10



11 PLAN DETAIL
A-201 A-804 1 : 10

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1890 Fifth Concession Rd

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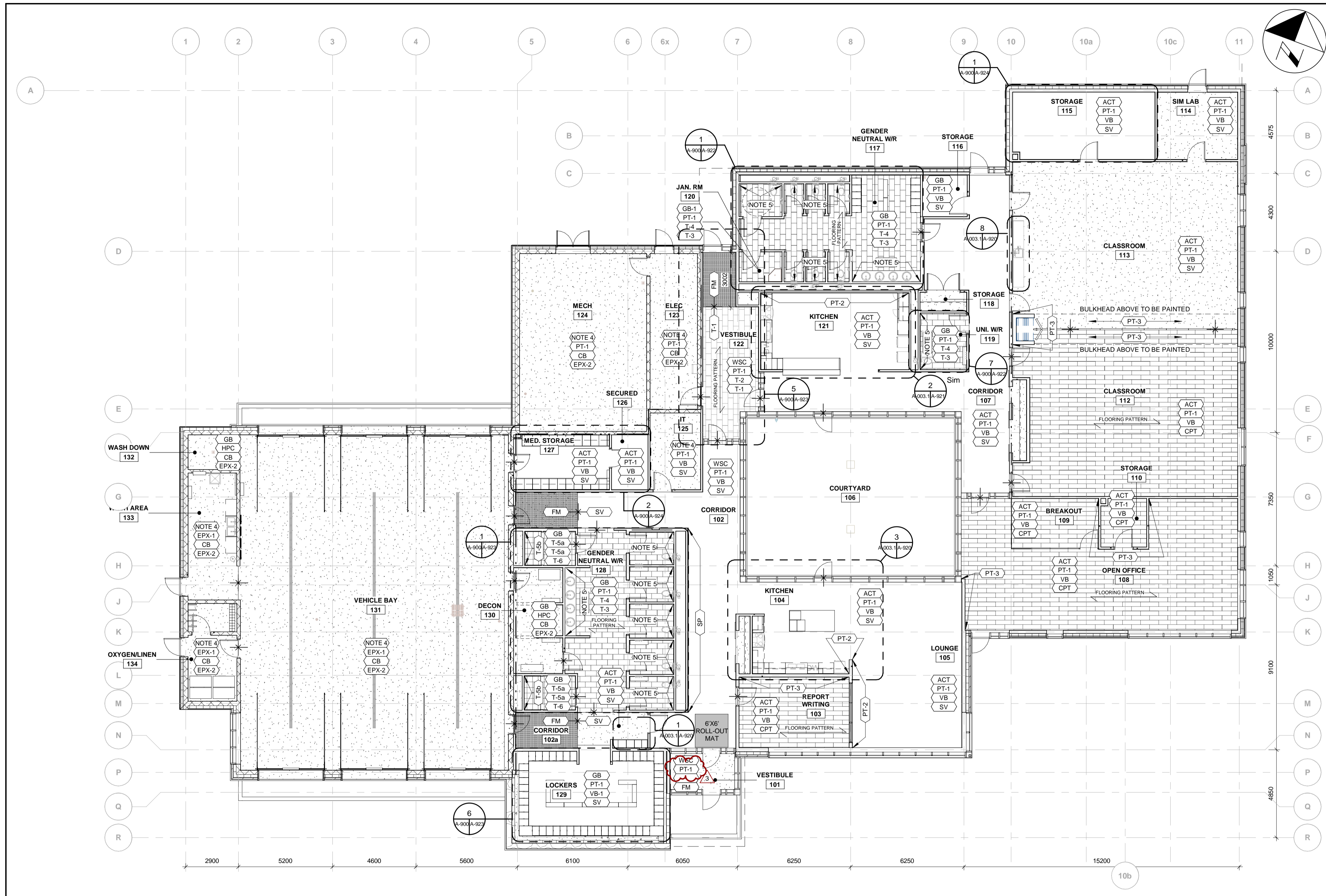
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| PRIME CONSULTANT | | |
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| AECOM Canada Architects Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com | | |
| SUB CONSULTANT | | |

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| DESIGN BY: JC / GG | SCALE: 1 : 10 |
| DRAWN BY: TH / MR | DATE: 10/08/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

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| | THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT DESIGN, CONSTRUCTION & ASSET MANAGEMENT | |
| | NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING PLAN DETAILS | |
| | PROPERTY NO. | FACILITIES CODE |

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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 804 | FACILITIES PROJECT NO. PO61- 18- 01 |
| SHEET NO. | | |



1 FINISHES PLAN - PHASE 1
A-900 A-900 1: 125

NOTES

- COORDINATE WITH REFLECTED CEILING PLANS.
- REFER TO SCHEDULE OF FINISHES SECTION 09 06 00 AND INTERIOR ELEVATIONS.
- INSTALL HIGH PERFORMANCE COATING UP TO 2200mm AFF. AND PAINT (PT-1) ABOVE.
- EXPOSED CEILING STRUCTURE TO BE PAINTED.
- INSTALL WALL TILE T-5b AS INDICATED ON INTERIOR ELEVATIONS. INDIVIDUAL SHOWER ROOMS TO HAVE WALL TILE TO FINISHED CEILING.

ROOM FINISH LEGEND

NOTE: ALL COLOURS, FINISHES, AND PATTERNS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND SPECIFICATIONS

- | | | | |
|------|-----------------------------|-------|--------------------------|
| CS | SEALED CONCRETE | VB | VINYL BASE |
| SS-X | SOLID SURFACE | EPX-X | EPOXY COATING |
| PL-X | PLASTIC LAMINATE | HPC | HIGH PERFORMANCE COATING |
| T-X | TILE (CERAMIC OR PORCELAIN) | CPT | CARPET TILE |
| ACT | ACOUSTIC CEILING TILE | PT-X | PAINT |
| SV | SHEET VINYL | GB | GYPSUM BOARD |
| WSC | WOOD SLAT CEILING | CB | INTEGRATED COVE BASE |
| FM | WALK-OFF MAT | SP | STONE PANEL WALL |

ORDER OF FINISHES

- | | |
|-------|----------------|
| XXX-X | CEILING FINISH |
| XXX-X | WALL FINISH |
| XXX-X | BASE FINISH |
| XXX-X | FLOOR FINISH |

SYMBOL LEGEND

- | | |
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| | DENOTES FLOOR FINISH TRANSITION |
| | DENOTES FLOOR DRAIN. REFER TO MECHANICAL |

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1890 Fifth Concession Rd

CONSULTANT REVISIONS

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519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT



DESIGN BY: JC / MF

SCALE: As Indicated

DRAWN BY: MF

DATE: 10/08/20

CHECKED BY: JC

CONSULTANT PROJECT NO. 60611569

APPROVED BY: RT

CLIENT FILE No.: 811/20

CONTRACT REVISIONS

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|---|------------|---------------------------|
| 4 | 03/14/2022 | ISSUED FOR CONSTRUCTION |
| 3 | 12/17/21 | ADDENDUM #4 |
| 2 | 10/18/21 | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | ISSUED FOR TENDER |

| NO | DATE | NAME | REVISIONS |
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THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
INTERIOR FINISHES - PHASE 1

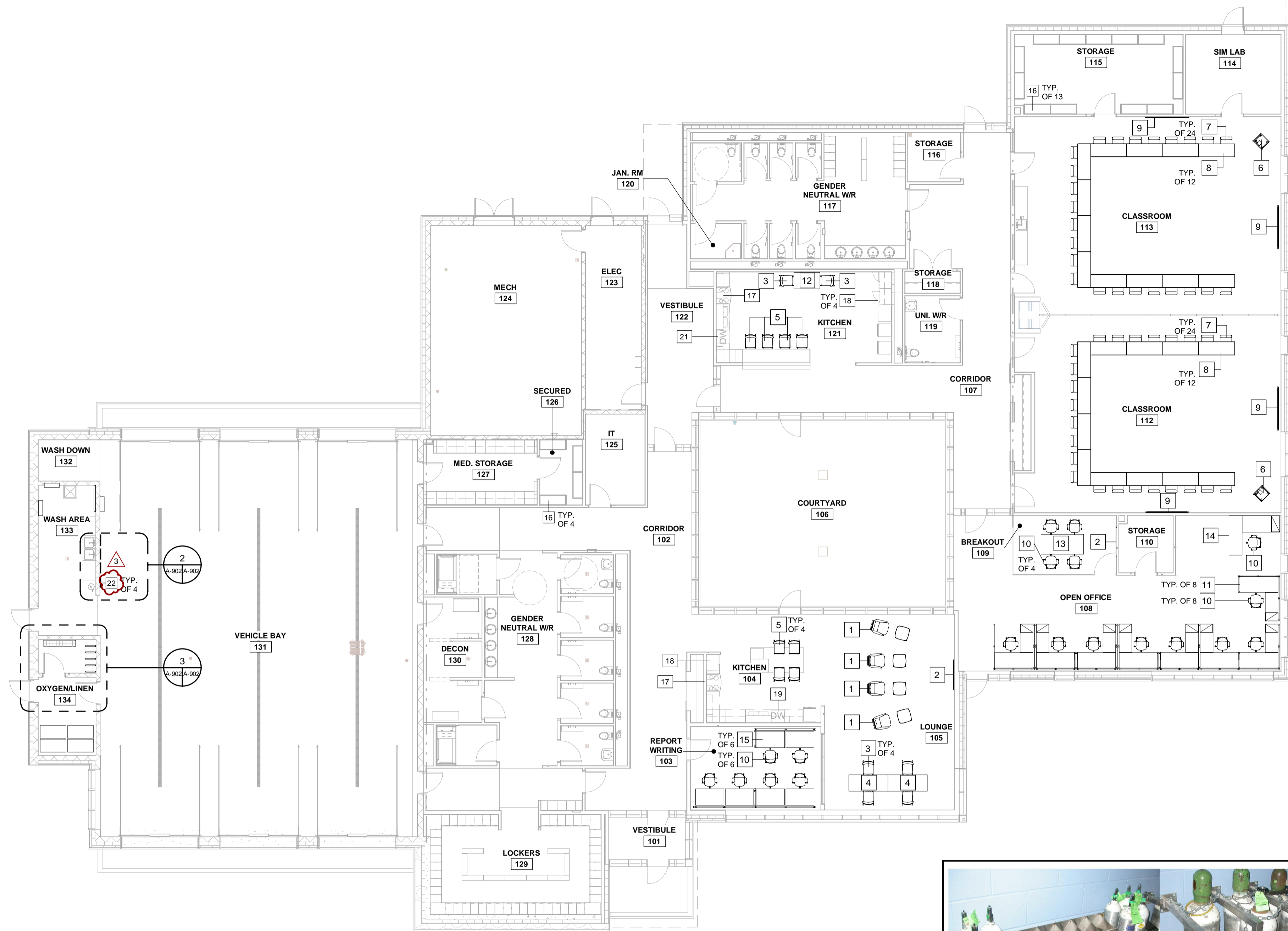
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 900 | SHEET NO. |
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FURNITURE AND EQUIPMENT LEGEND

NOTE: ALL COLOURS AND FINISHES TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND SPECIFICATIONS

- 1 LOUNGE CHAIRS WITH OTTOMAN, BY FURNITURE VENDOR
- 2 55" TV MONITOR, PURCHASED BY OWNER, CONTRACTOR TO INSTALL
- 3 CHAIR, BY FURNITURE VENDOR
- 4 TABLE - 60"x30", BY FURNITURE VENDOR
- 5 BAR STOOL, BY FURNITURE VENDOR
- 6 PODIUM, BY FURNITURE VENDOR
- 7 TRAINING ROOM CHAIR, BY FURNITURE VENDOR
- 8 TRAINING ROOM TABLE, BY FURNITURE VENDOR
- 9 85" TV MONITOR, PURCHASED BY OWNER, CONTRACTOR TO INSTALL
- 10 OFFICE CHAIR, BY FURNITURE VENDOR
- 11 OPEN OFFICE WORKSTATION, BY FURNITURE VENDOR
- 12 TABLE - 48"x30", BY FURNITURE VENDOR
- 13 TABLE - 78"x36", BY FURNITURE VENDOR
- 14 PRIVATE OFFICE WORKSTATION, BY FURNITURE VENDOR
- 15 REPORT WRITING WORKSTATION, BY FURNITURE VENDOR
- 16 METAL SHELVES, BY OWNER
- 17 STOVE, SEE EQUIPMENT SCHEDULE
- 18 MICROWAVE, SEE EQUIPMENT SCHEDULE
- 19 DISHWASHER (KITCHEN 104), SEE EQUIPMENT SCHEDULE
- 20 REFRIGERATOR, SEE EQUIPMENT SCHEDULE
- 21 DISHWASHER (KITCHEN 121), SEE EQUIPMENT SCHEDULE
- 22 BACKBOARD HANGER
- 23 OXYGEN TANK STORAGE RACKS

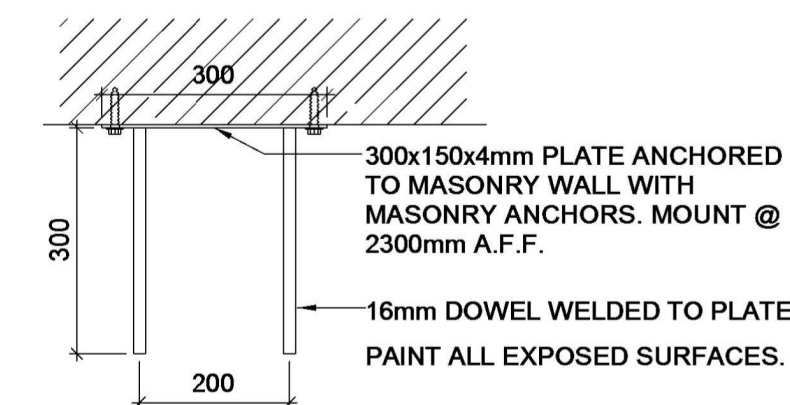


1 FURNITURE AND EQUIPMENT PLAN - PHASE 1

| EQUIPMENT SCHEDULE | | | | | |
|--------------------|--------------------------|---------------|-------------|---|-----------------------------|
| Mark | Description | Manufacturer | Model | Comments | Material and Finish |
| 17 | STOVE | AMANA | YACR4303MFW | SOIC (Supplied by Owner, Installed by Contractor) | Appliance - Stainless Steel |
| 18 | MICROWAVE | PANASONIC | NN-SD9655S | SOIC (Supplied by Owner, Installed by Contractor) | Appliance - Stainless Steel |
| 19 | DISHWASHER (KITCHEN 104) | MAYTAG | MDB9979SK | ROUGH-IN WITH PLUMBING AND POWER, FOR FUTURE OWNER INSTALLATION | Appliance - Stainless Steel |
| 20 | REFRIGERATOR | MAYTAG | MDB9979SK | SOIC (Supplied by Owner, Installed by Contractor) | Appliance - Stainless Steel |
| 21 | DISHWASHER (KITCHEN 121) | GE APPLIANCES | GBT632SSMSS | ADA SOIC (Supplied by Owner, Installed by Contractor) | Appliance - Stainless Steel |



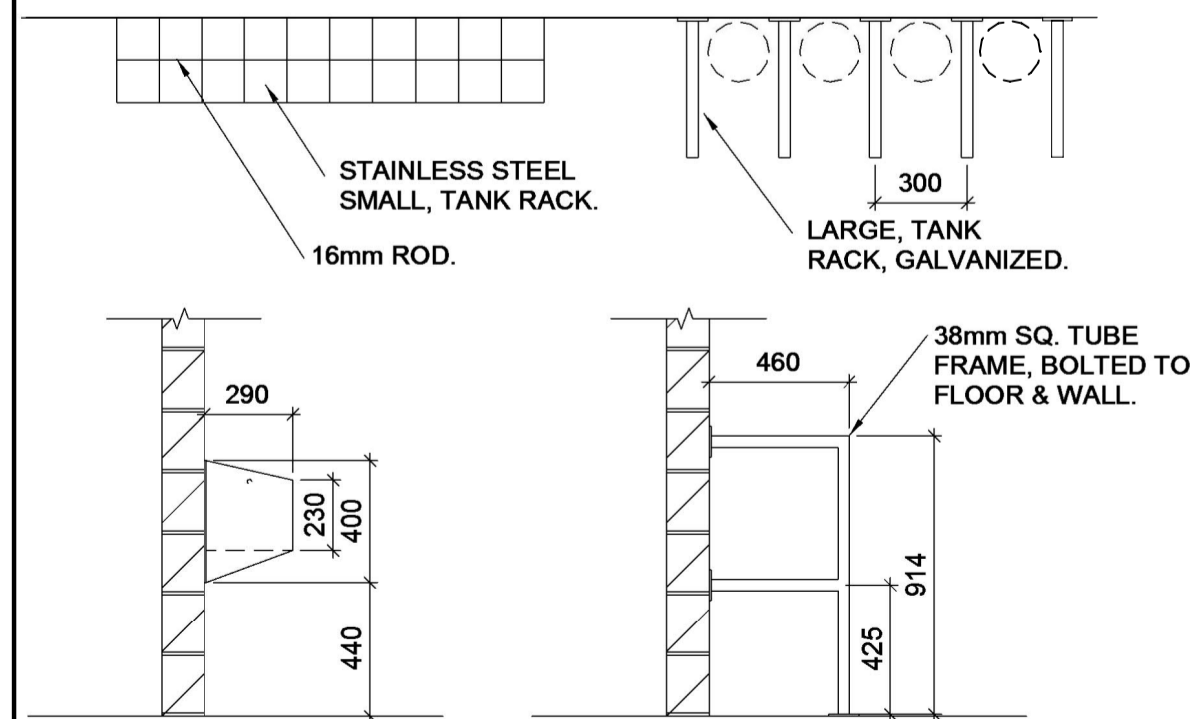
ELEVATION



PLAN

2 BACKBOARD HANGER

A-902 A-902 1 : 10



3 TANK STORAGE

A-902 A-902 1 : 25

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

CONSULTANT REVISIONS

NO. DATE NAME REVISIONS

PRIME CONSULTANT

AECOM

AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT



DESIGN BY: JC / MF

SCALE: As Indicated

DRAWN BY: PP

DATE: 11/19/20

CHECKED BY: JC

CONSULTANT PROJECT NO. 60611569

APPROVED BY: RT

CLIENT FILE No.: 811/20

CONTRACT REVISIONS

NO DATE NAME REVISIONS



THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING FURNITURE AND EQUIPMENT PLAN - PHASE 1

PROPERTY NO.

FACILITIES CODE

FACILITIES PROJECT NO.

CONTRACT NO.

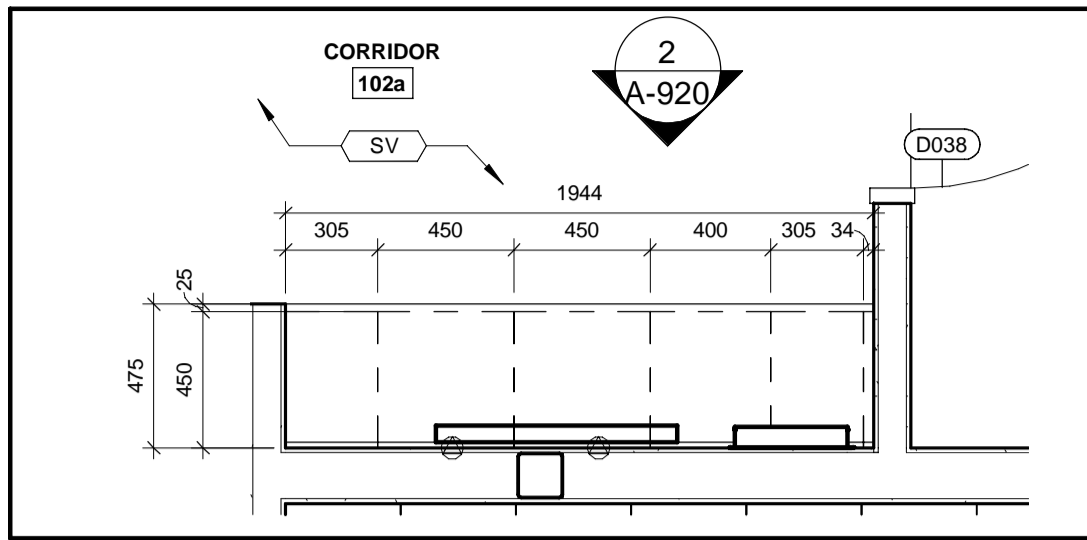
DRAWING NO.

SHEET NO.

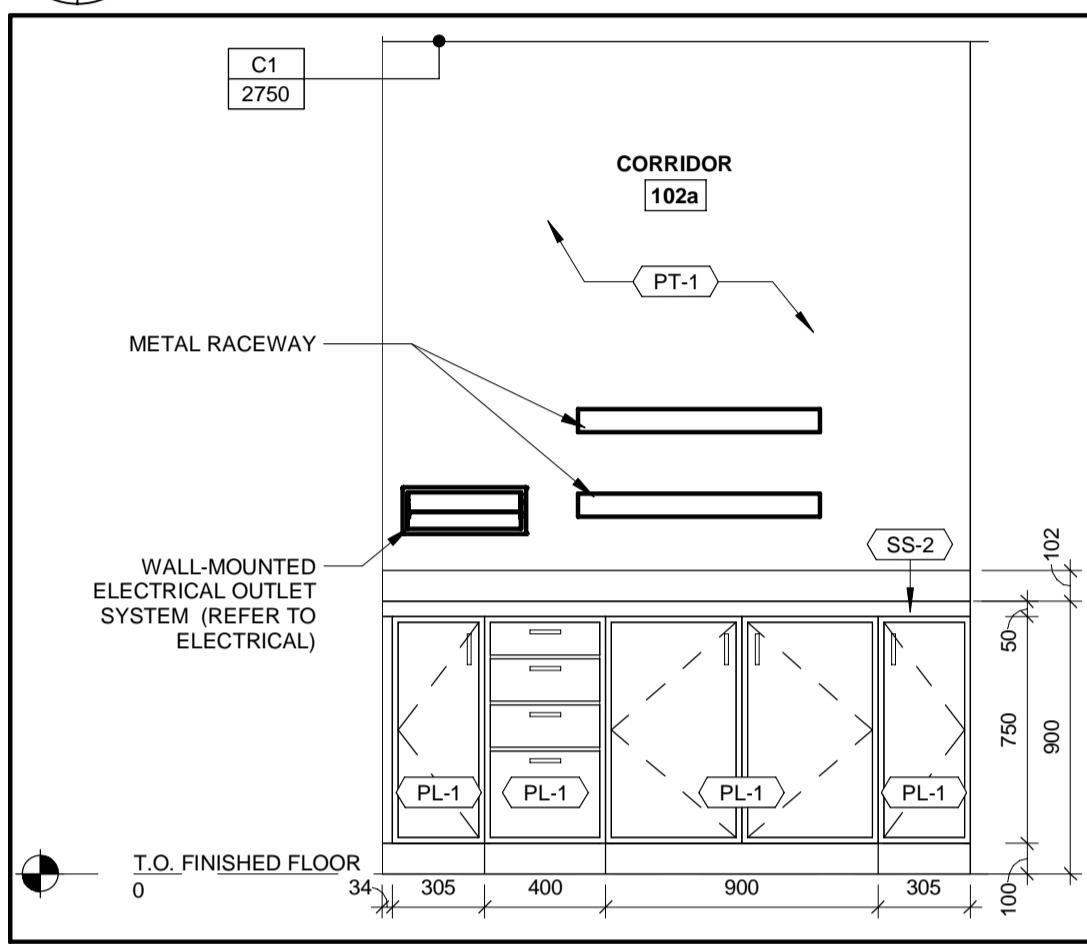
T- 1160- 2021

A- 902

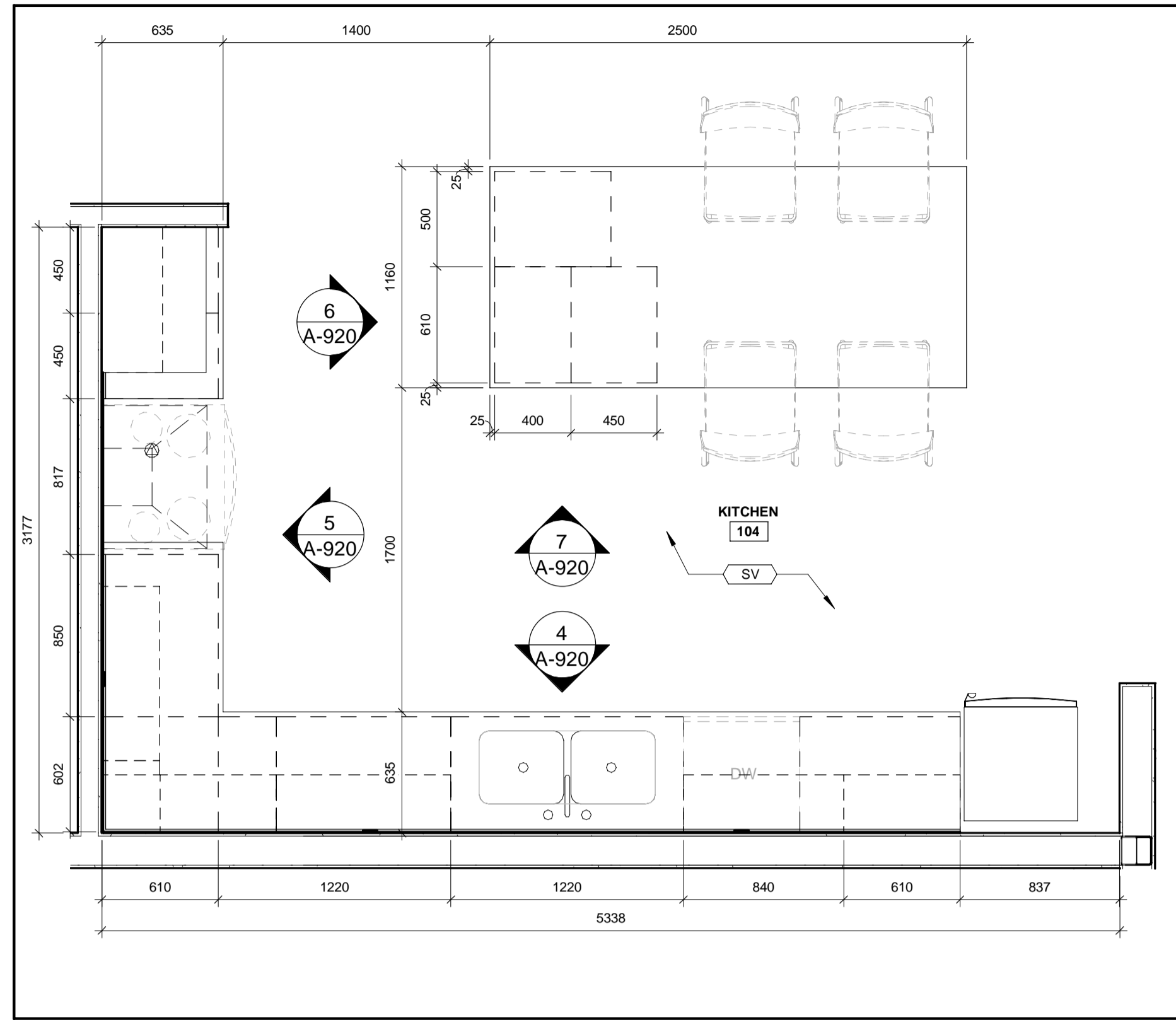
PO61- 18- 01



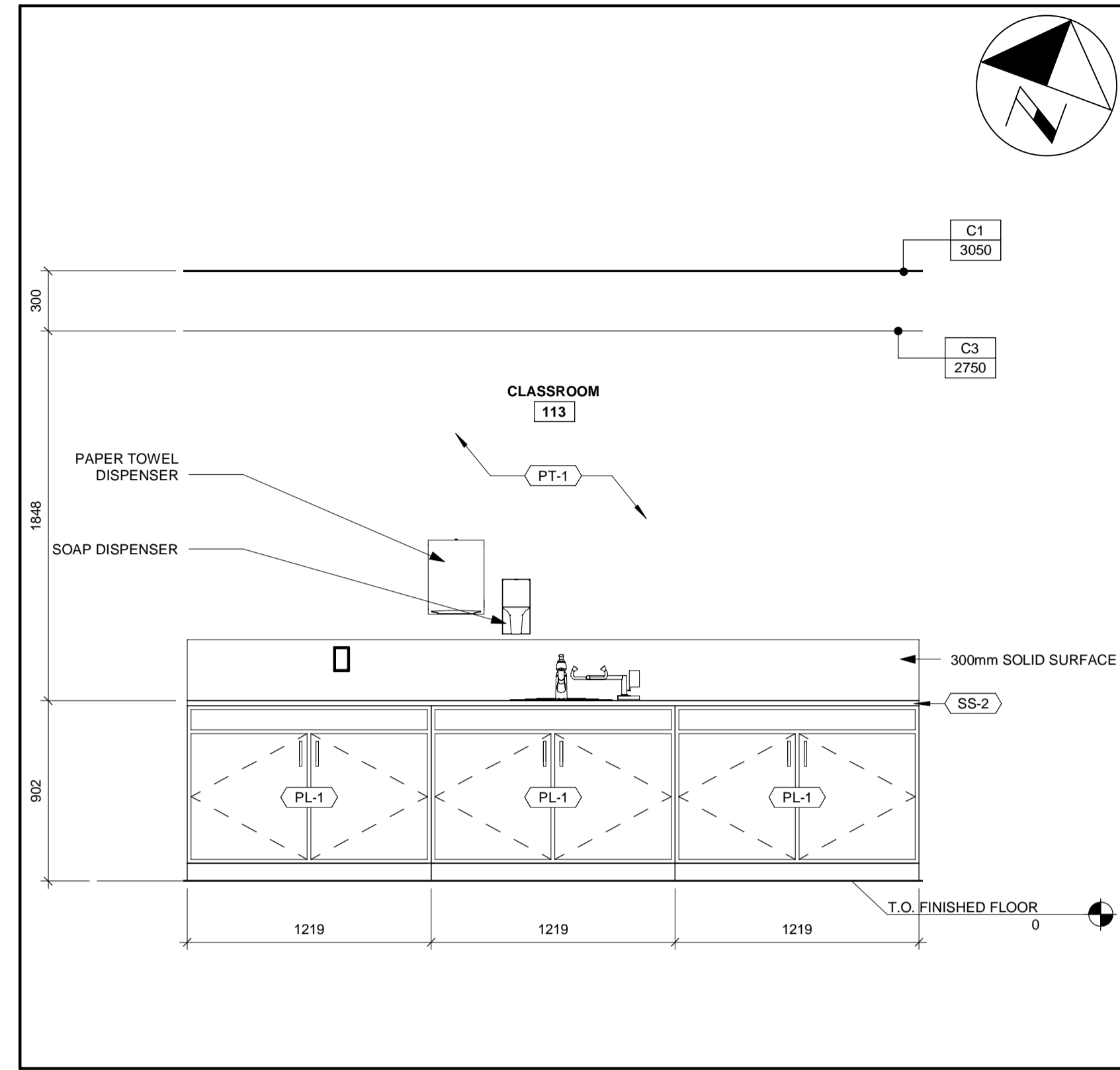
1 ENLARGED PLAN AND MILLWORK MW001
A-920 A-920 1 : 25



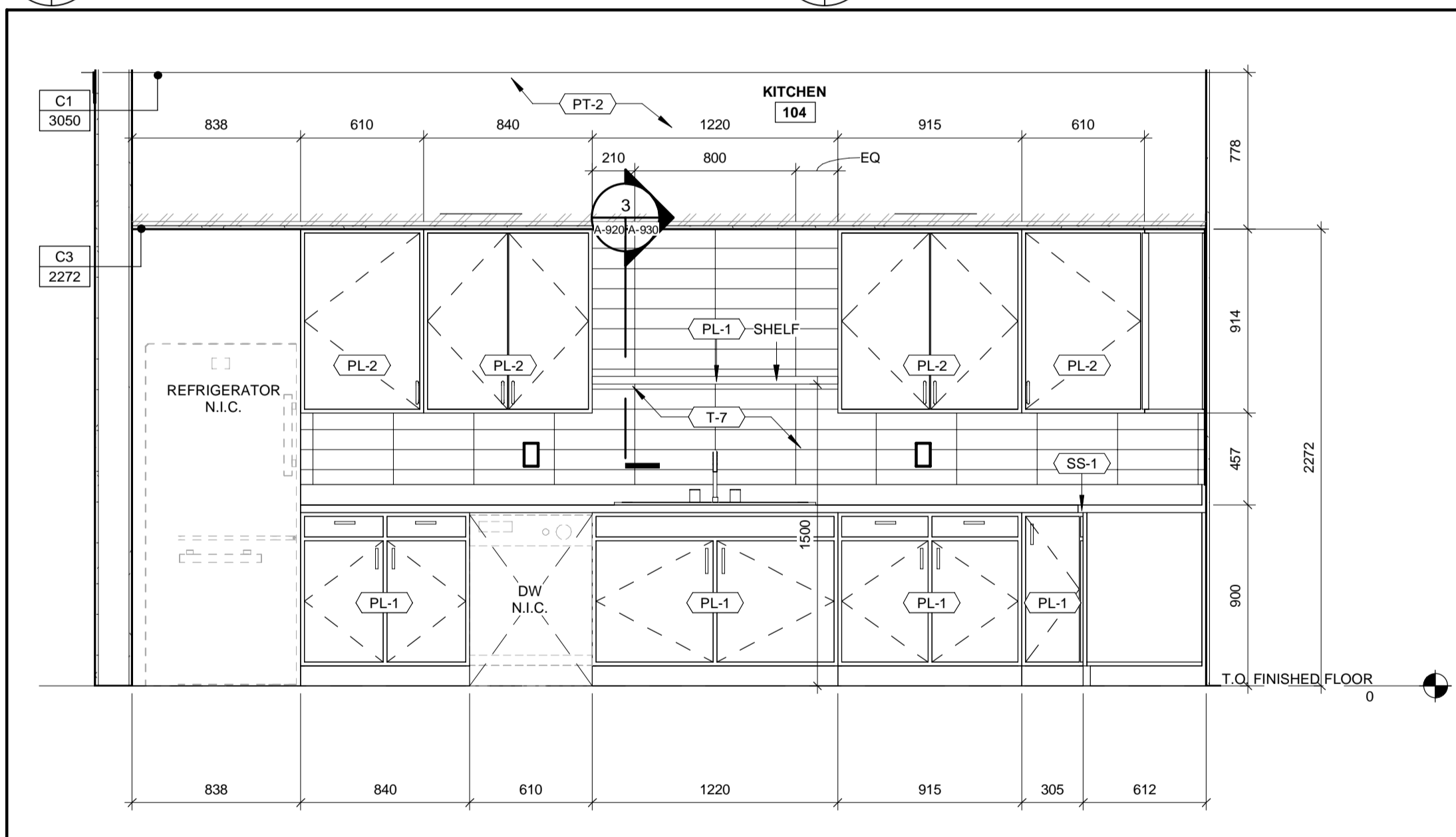
2 INTERIOR ELEVATION AND MILLWORK MW001
A-920 A-920 1 : 25



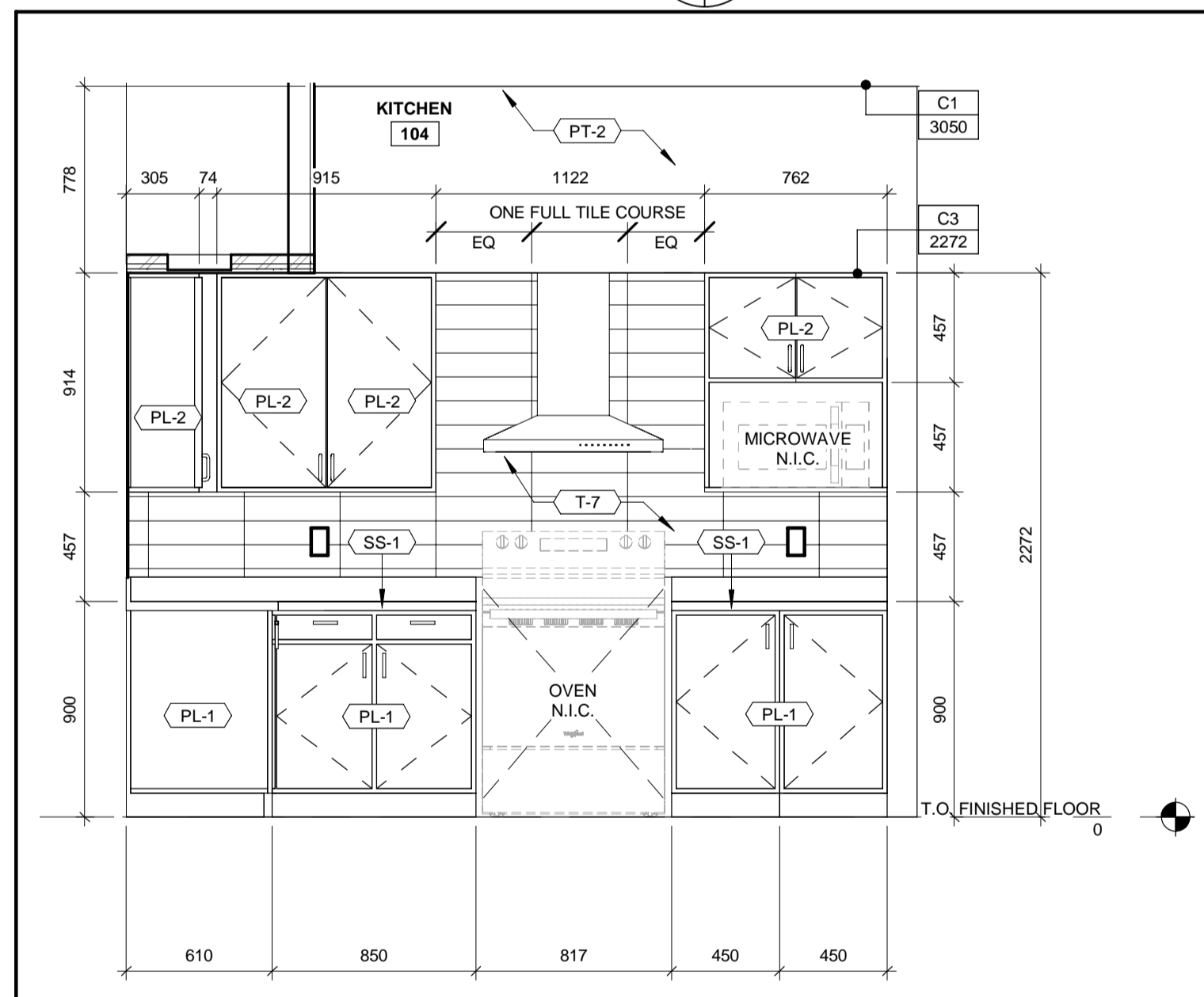
3 ENLARGED PLAN KITCHEN
A-920 A-920 1 : 25



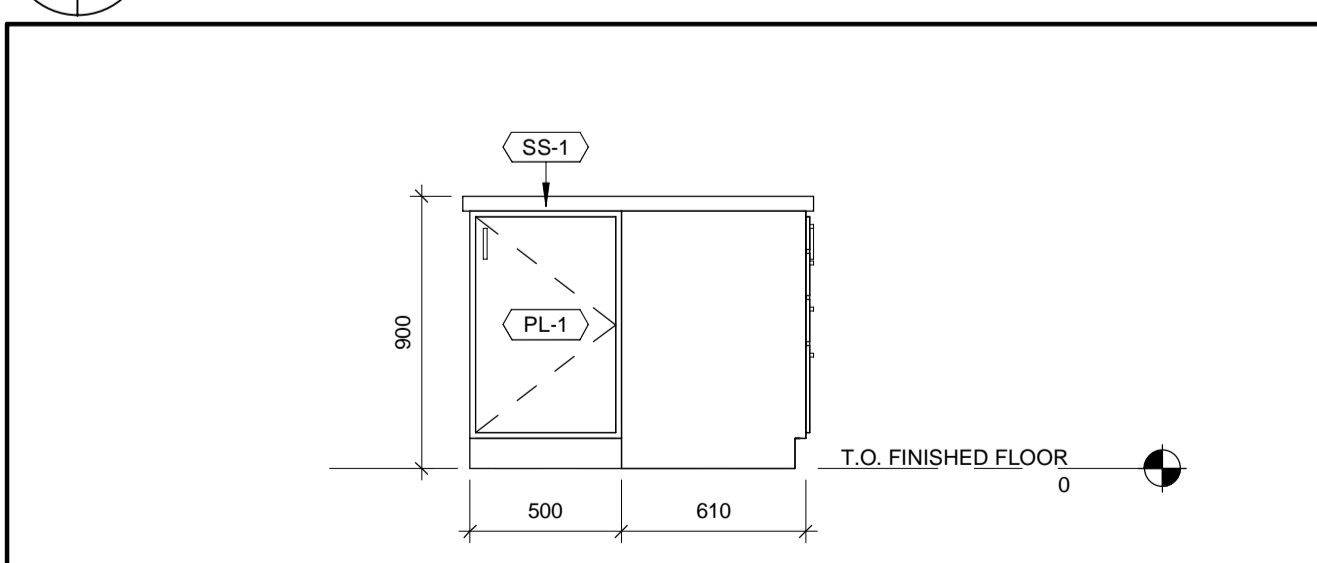
9 INTERIOR ELEVATION AND MILLWORK MW003
A-920 A-920 1 : 25



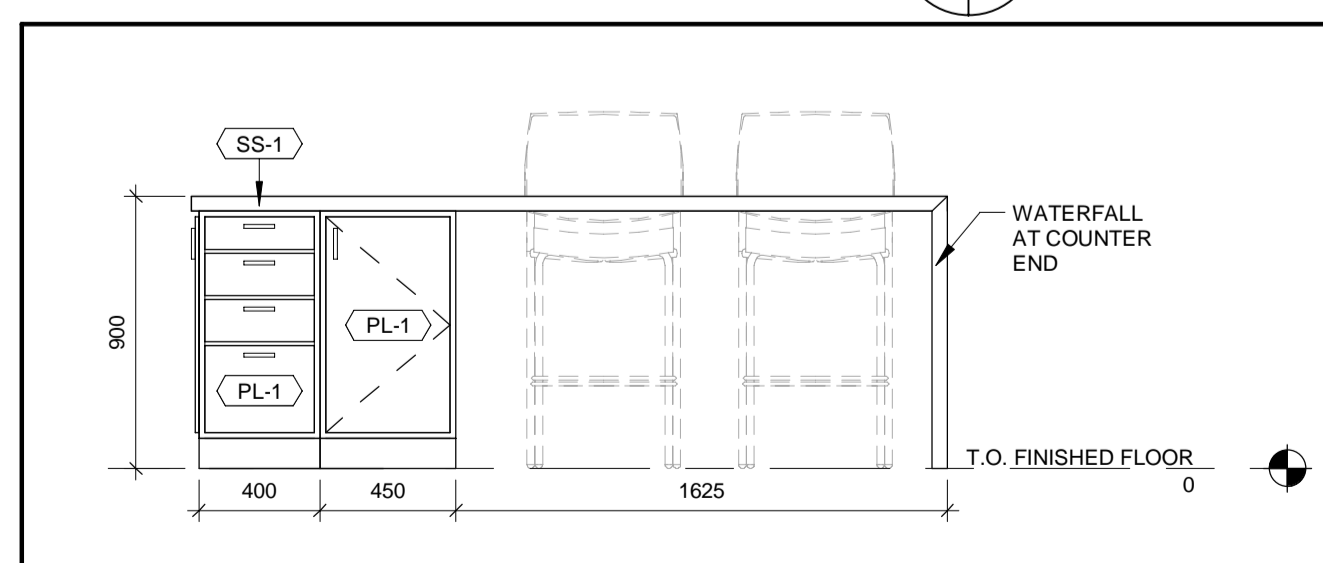
4 INTERIOR ELEVATION - MW002 - SOUTH
A-920 A-920 1 : 25



5 INTERIOR ELEVATION - MW002 - WEST
A-920 A-920 1 : 25



6 INTERIOR ELEVATION AND MW002
A-920 A-920 1 : 25

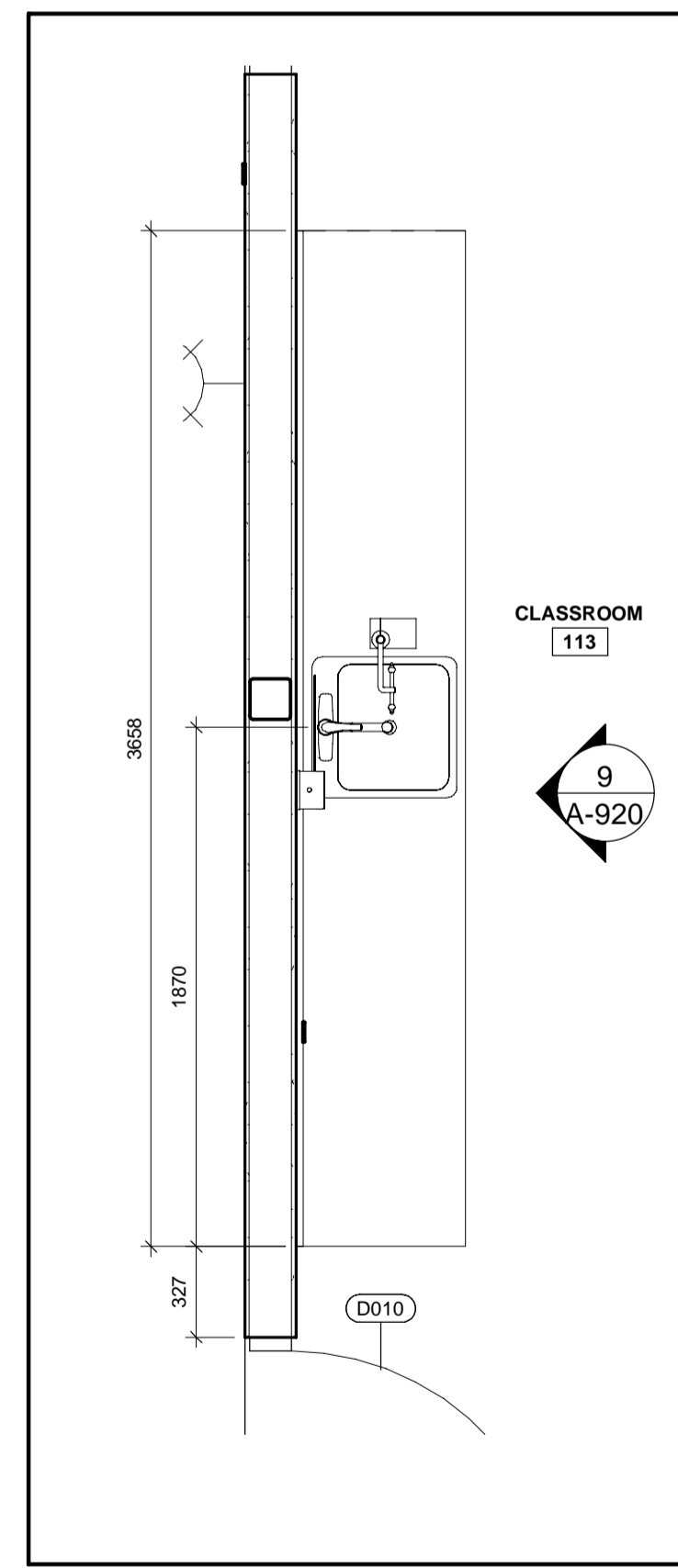


7 INTERIOR ELEVATION AND MW002 - NORTH
A-920 A-920 1 : 25

ROOM FINISH LEGEND

NOTE: ALL COLOURS, FINISHES, AND PATTERNS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND SPECIFICATIONS

| | | | |
|------|-----------------------------|------|------------|
| SS-X | SOLID SURFACE | VB | VINYL BASE |
| PL-X | PLASTIC LAMINATE | PT-X | PAINT |
| T-X | TILE (CERAMIC OR PORCELAIN) | | |
| SV | SHEET VINYL | | |



8 ENLARGED PLAN AND MW003
A-920 A-920 1 : 25

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1890 Fifth Concession Rd

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SUB CONSULTANT

ONTARIO ASSOCIATION OF ARCHITECTS
2022.03.14
ROY HOWARD TURNER
LICENCE 4845

| | |
|--------------------|---------------------------------|
| DESIGN BY: JC / MF | SCALE: As Indicated |
| DRAWN BY: PP | DATE: 10/08/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

| NO | DATE | NAME | REVISIONS |
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DURHAM REGION

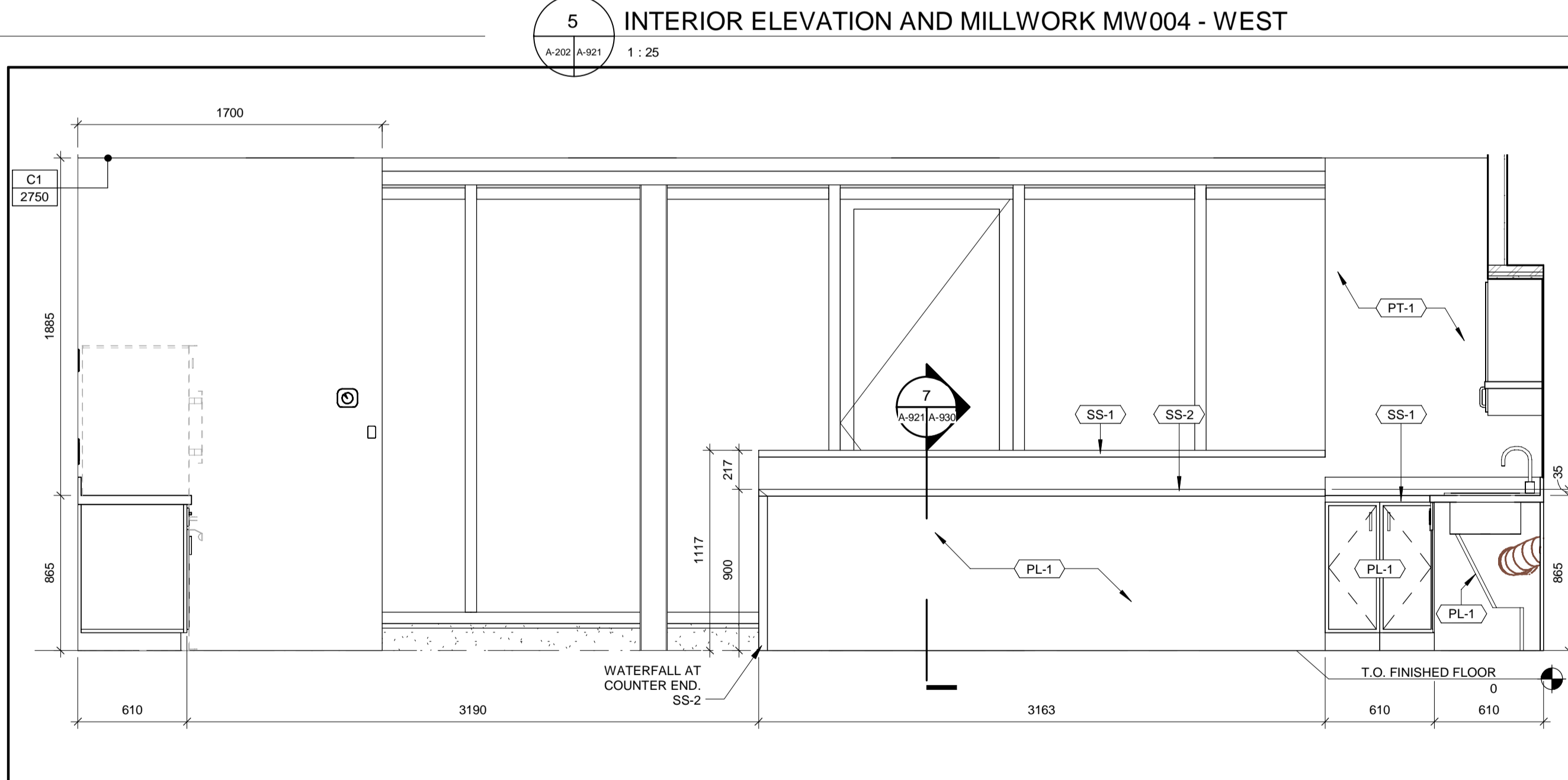
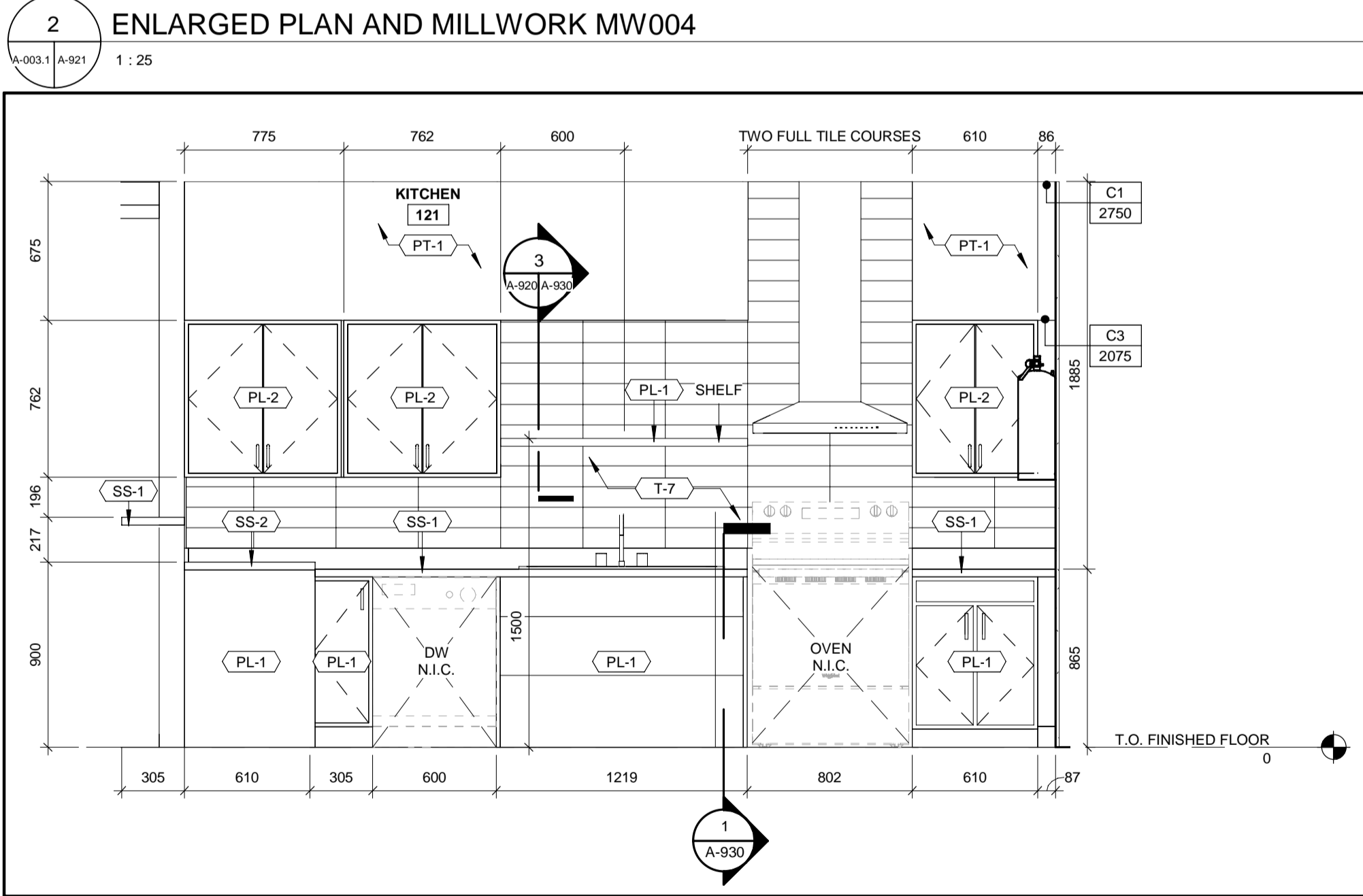
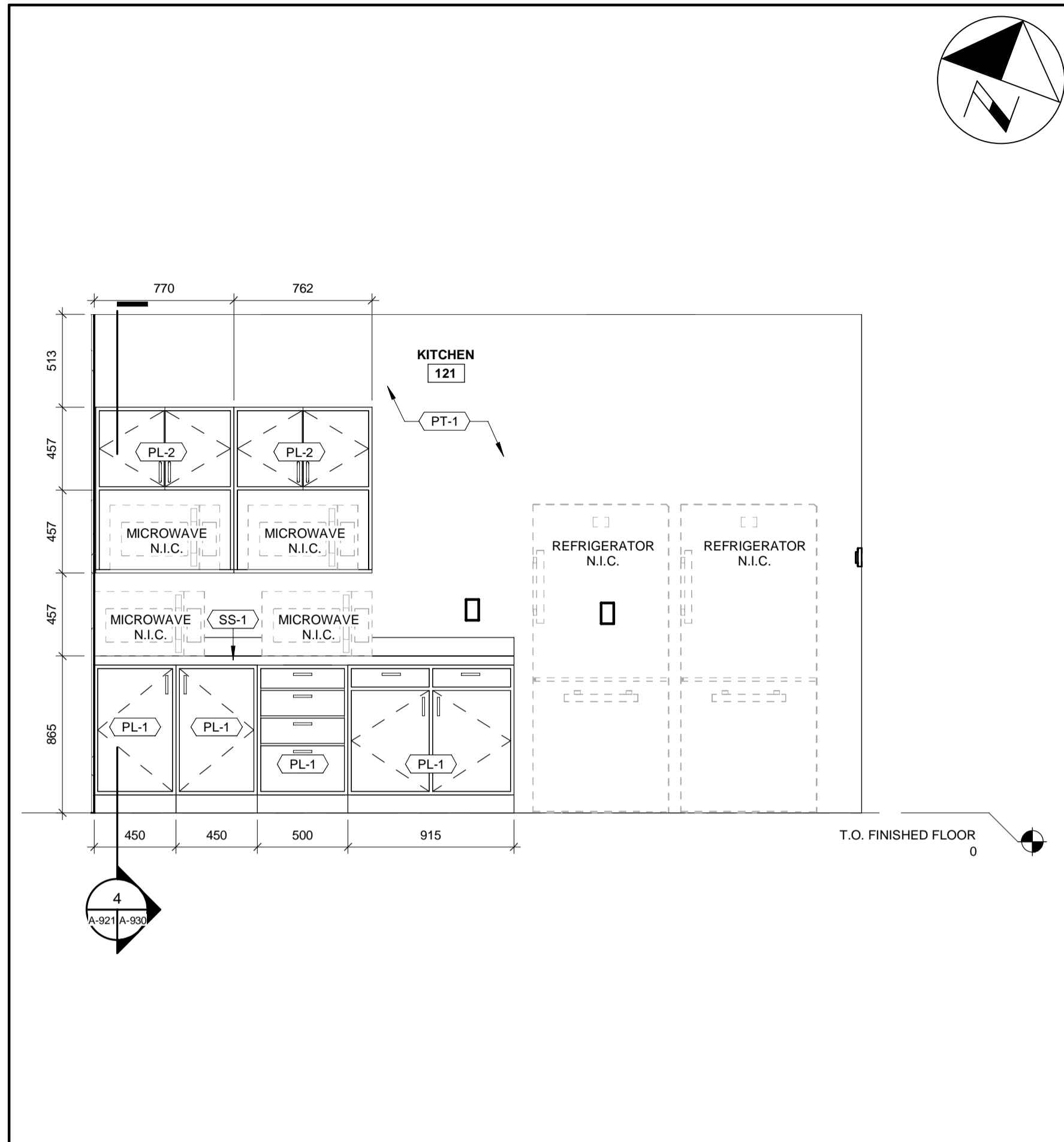
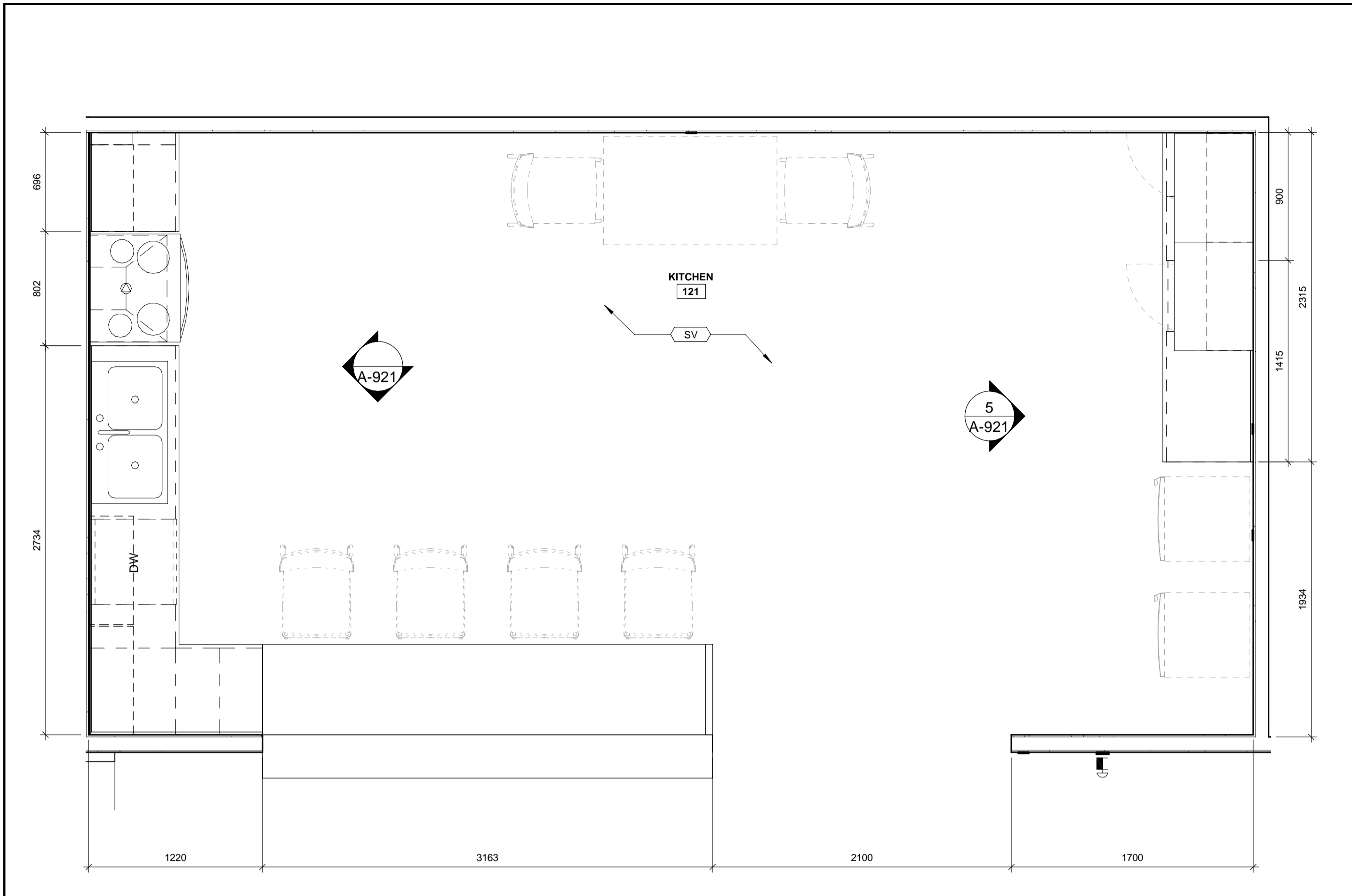
THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING

INTERIOR ELEVATIONS AND MILLWORK

| | | |
|----------------------------|--------------------|-------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 920 | SHEET NO. |



4 INTERIOR ELEVATION AND MILLWORK MW004 - EAST

6 INTERIOR ELEVATIONS AND MILLWORK

5 INTERIOR ELEVATION AND MILLWORK MW004 - WEST

2 ENLARGED PLAN AND MILLWORK MW004

ROOM FINISH LEGEND

NOTE: ALL COLOURS, FINISHES, AND PATTERNS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND SPECIFICATIONS

- SS-X SOLID SURFACE
- VB VINYL BASE
- PL-X PLASTIC LAMINATE
- PT-X PAINT
- T-X TILE (CERAMIC OR PORCELAIN)
- SV SHEET VINYL

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2022.03.14
ROY HOWARD TURNER
LICENCE 4845

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| DESIGN BY: JC / MF | SCALE: As Indicated |
| DRAWN BY: PP | DATE: 11/26/20 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

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DURHAM REGION

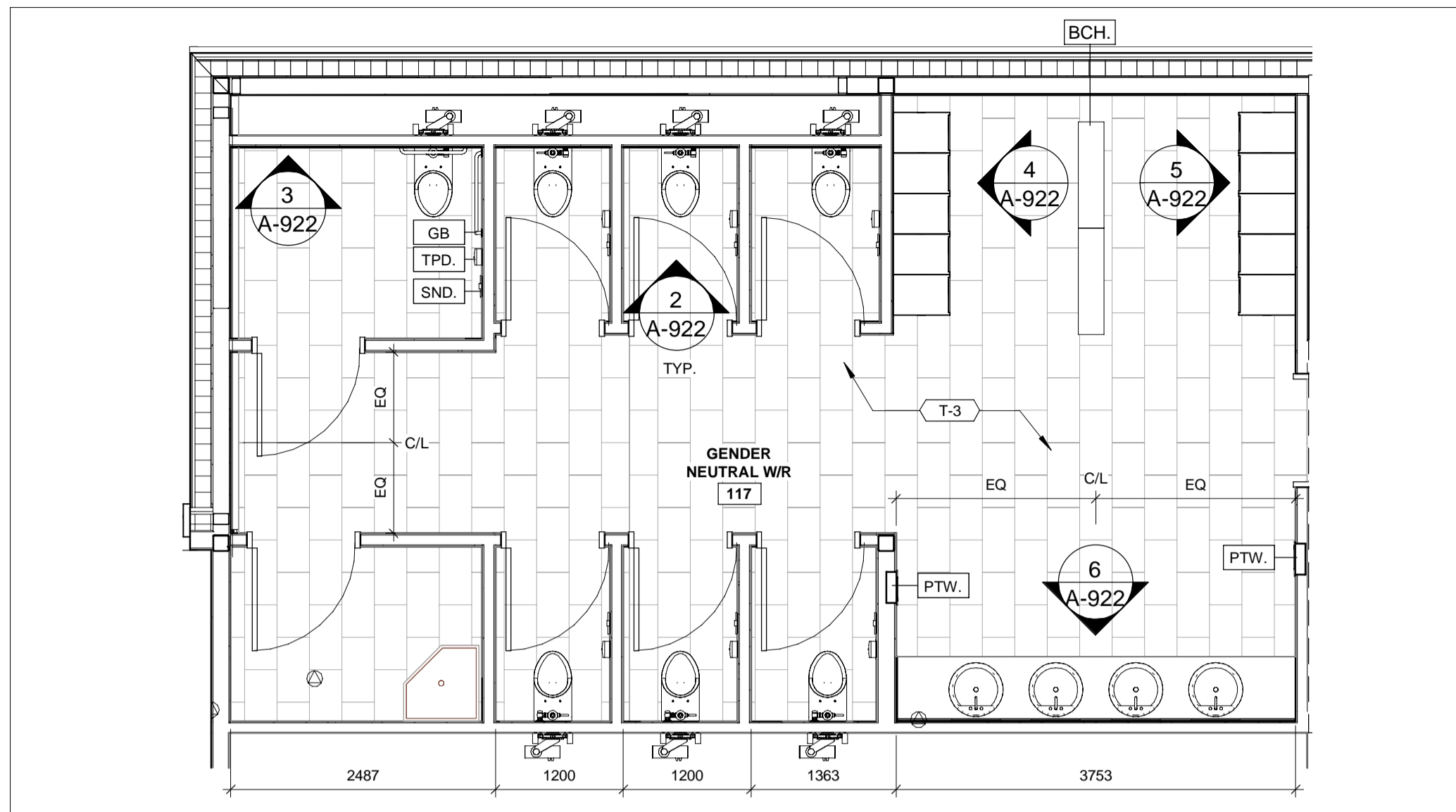
THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

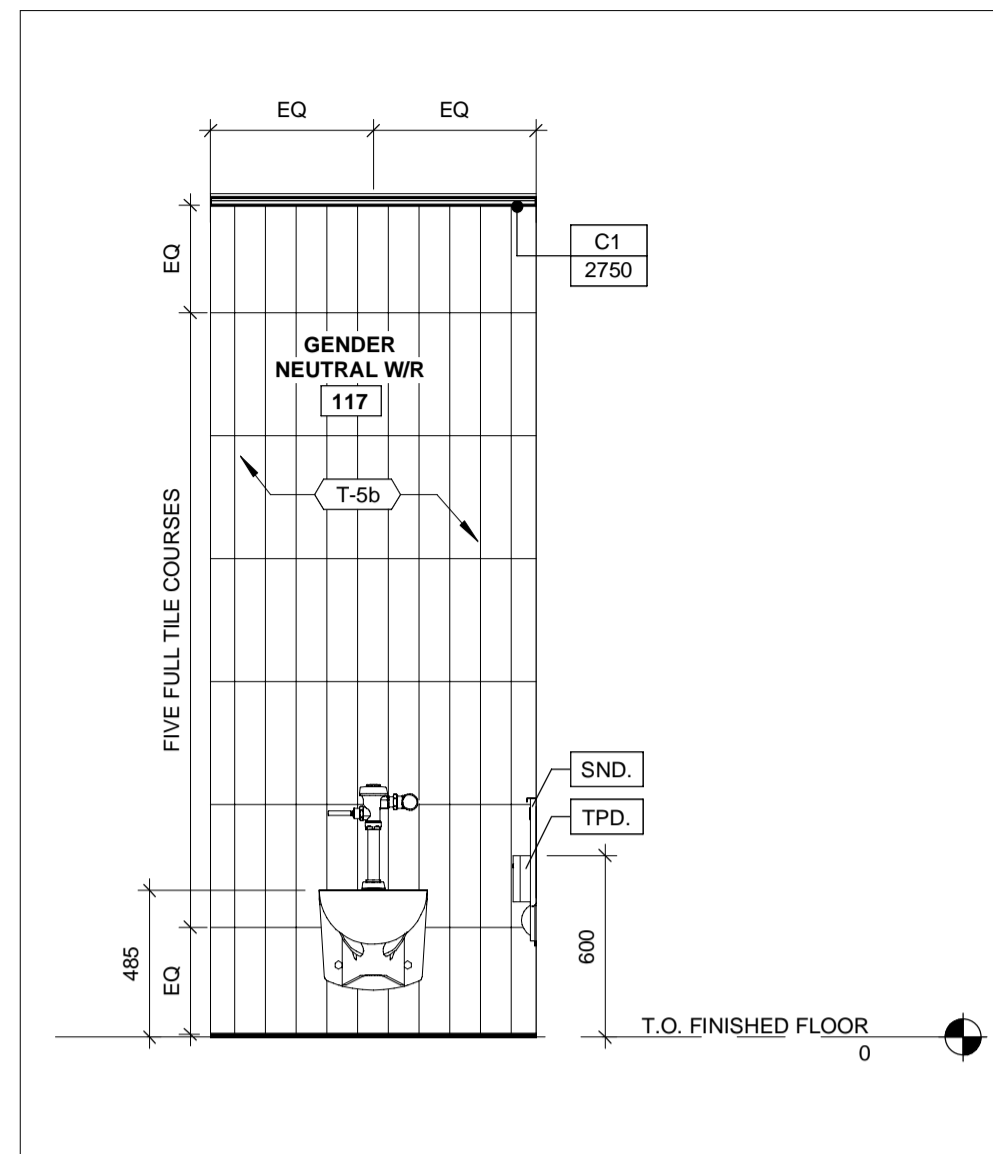
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING INTERIOR ELEVATIONS AND MILLWORK

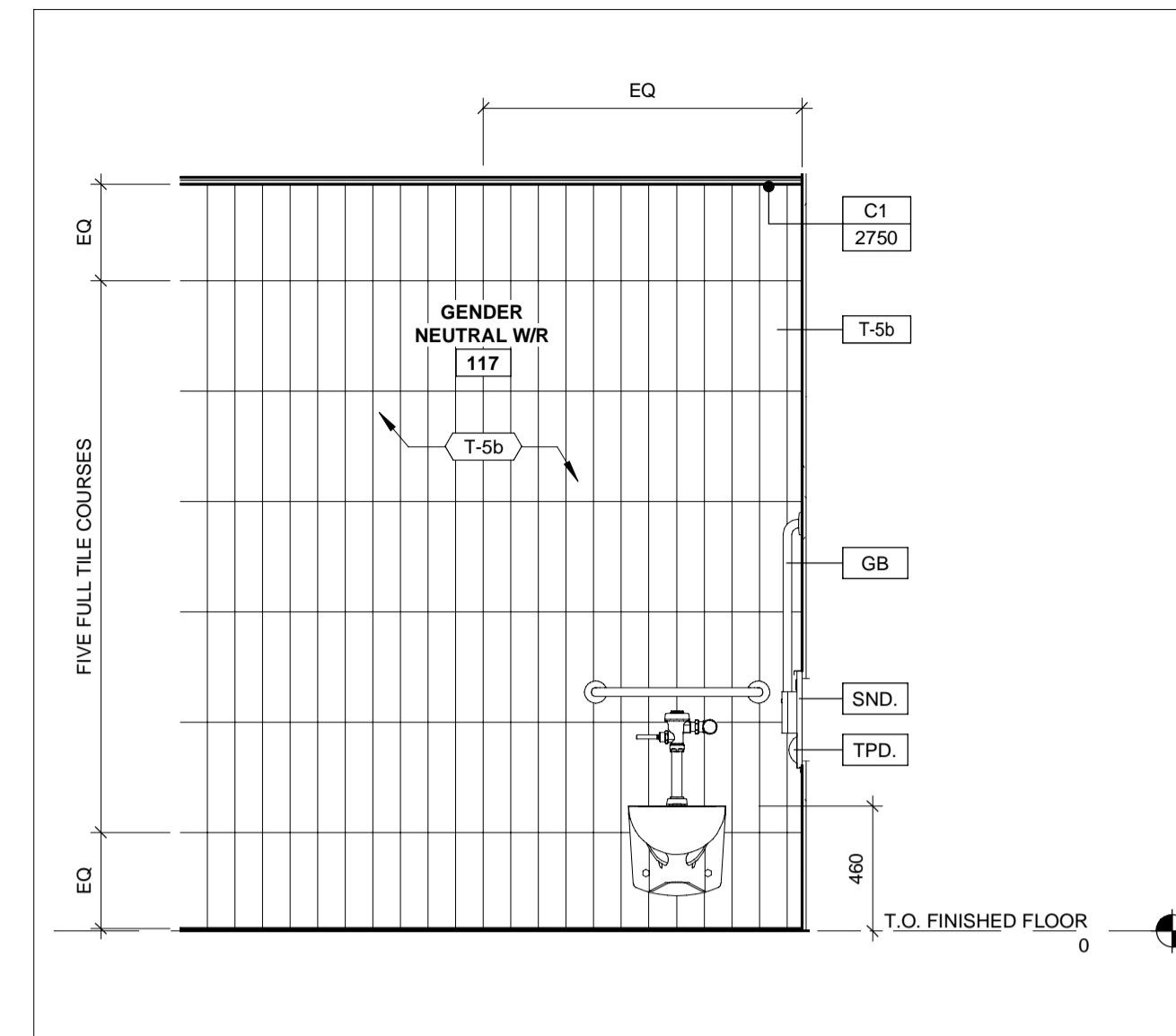
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 921 | SHEET NO. |



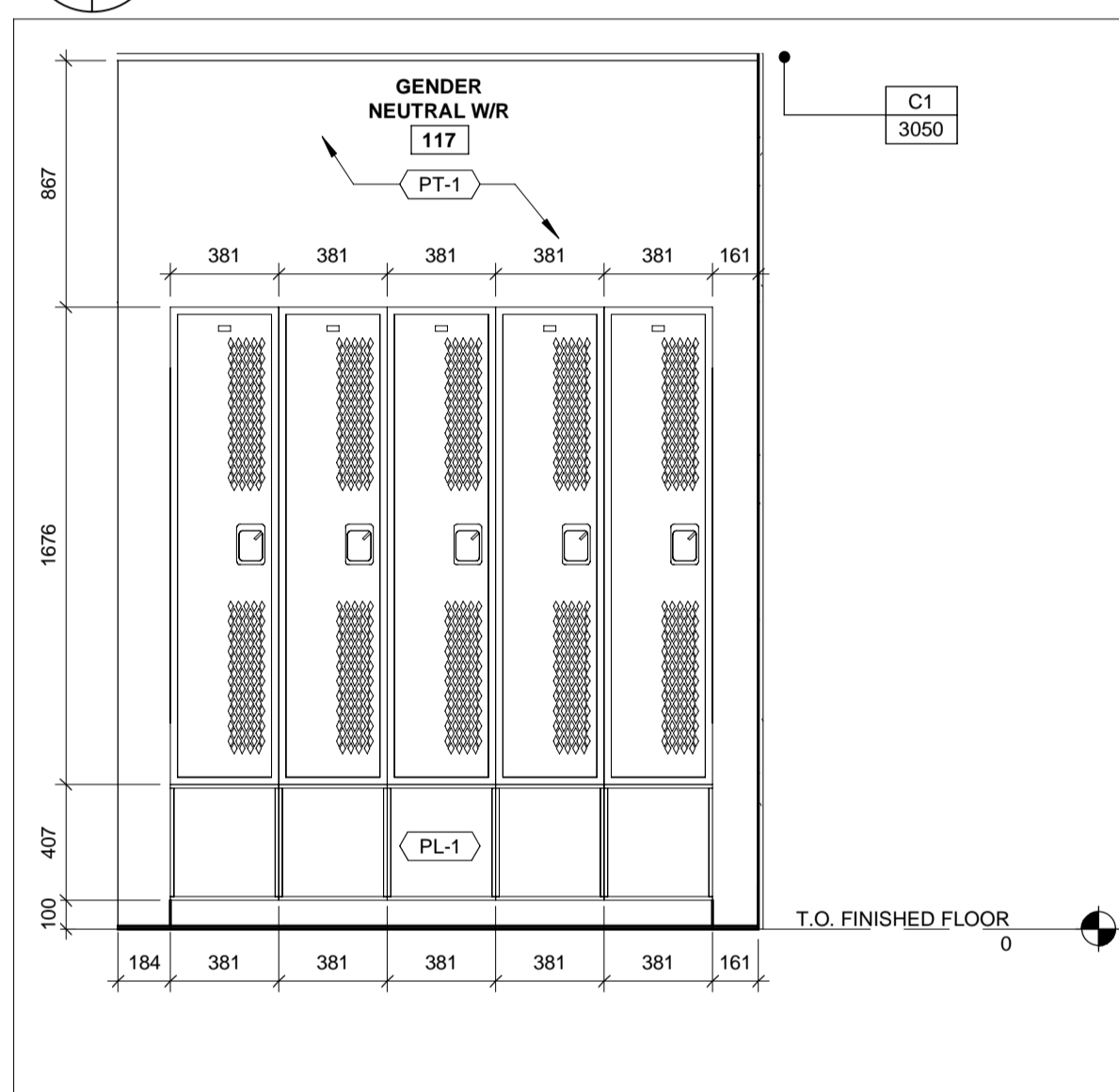
1 ENLARGED GENDER NEUTRAL WASHROOM
A-900 A-922 1 : 50



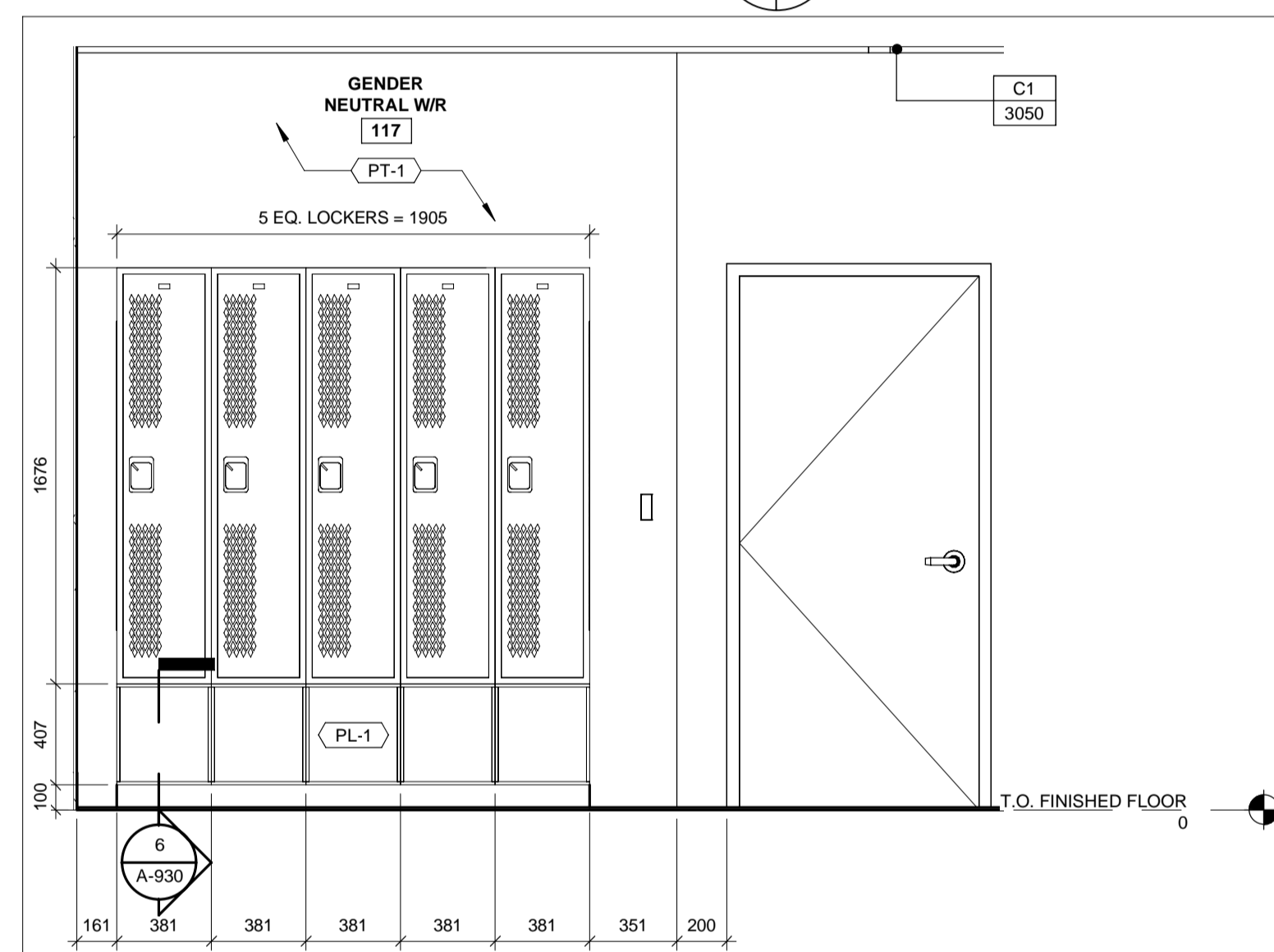
2 GENDER NEUTRAL W/R TYPICAL STALL
A-202 A-922 1 : 25



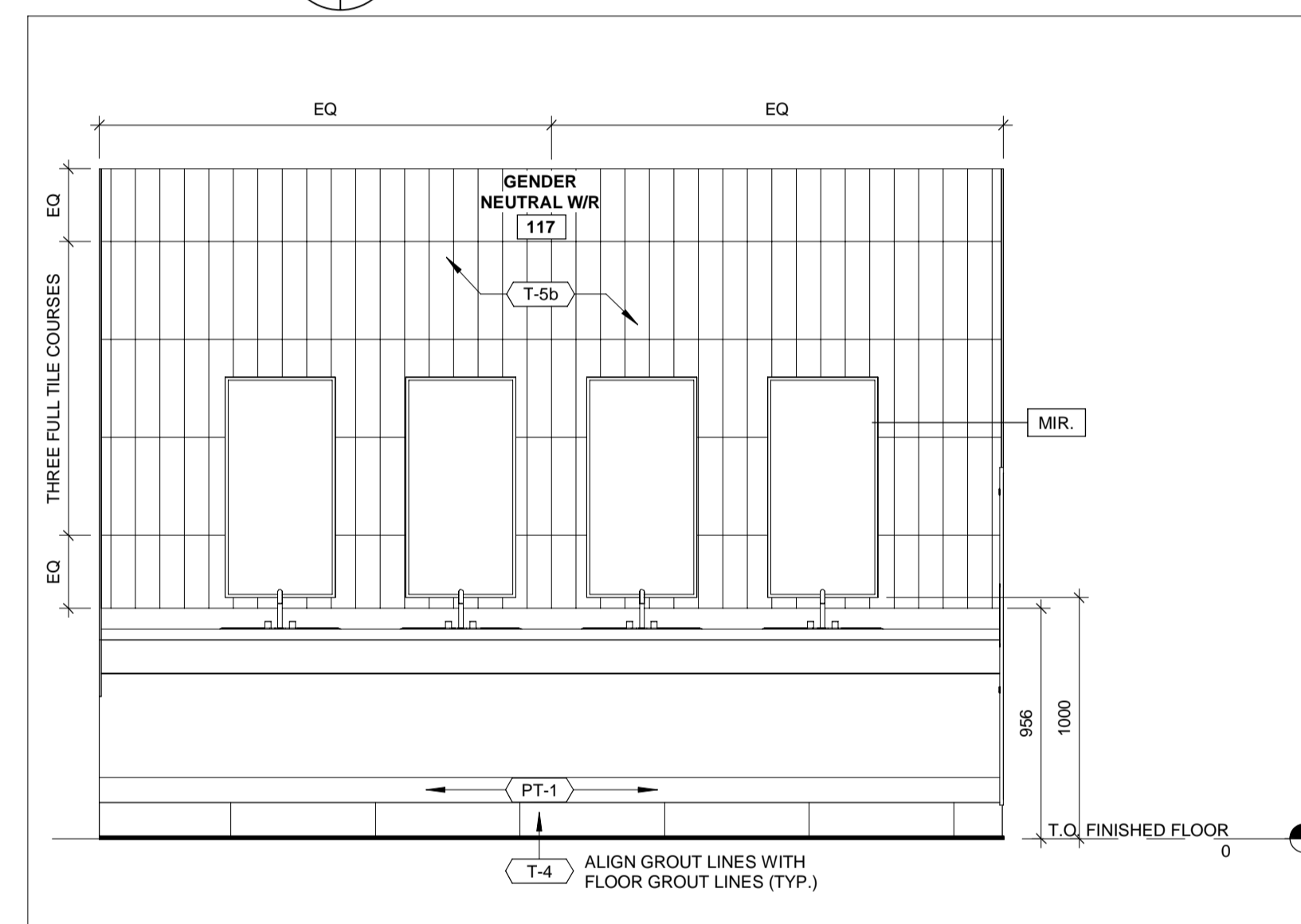
3 GENDER NEUTRAL W/R BARRIER-FREE STALL
A-202 A-922 1 : 25



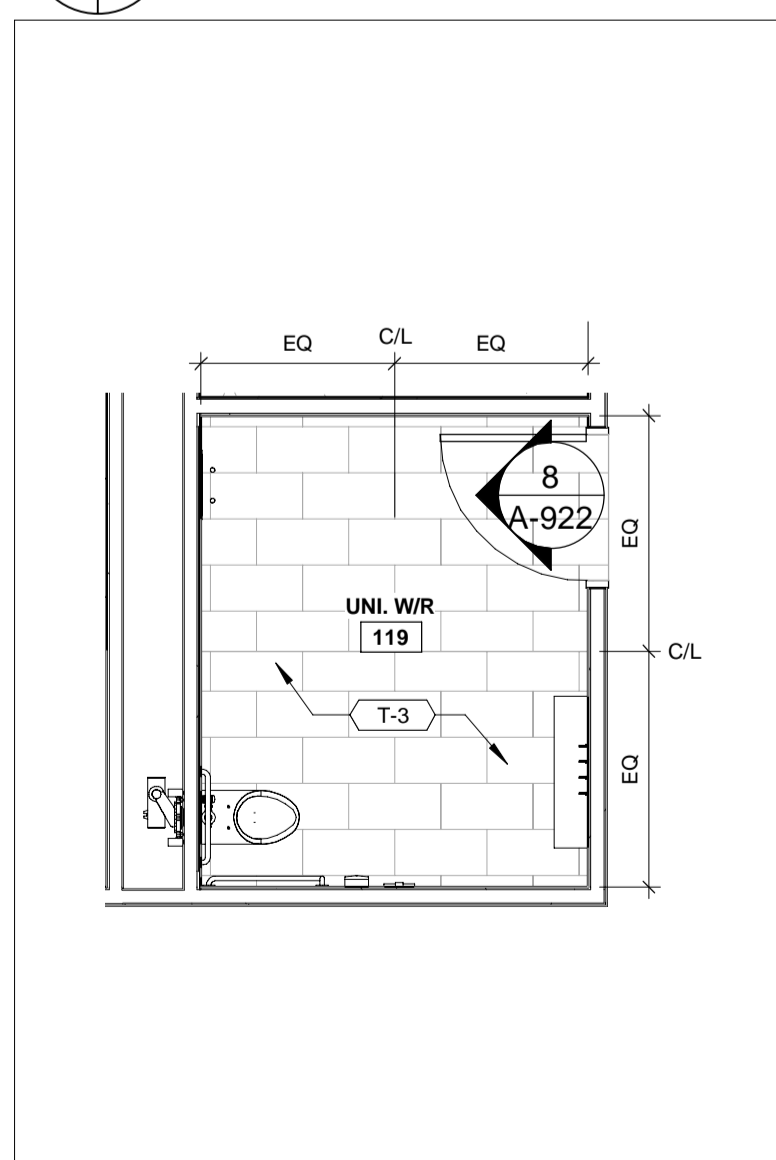
4 INTERIOR ELEVATION LOCKER
A-202 A-922 1 : 25



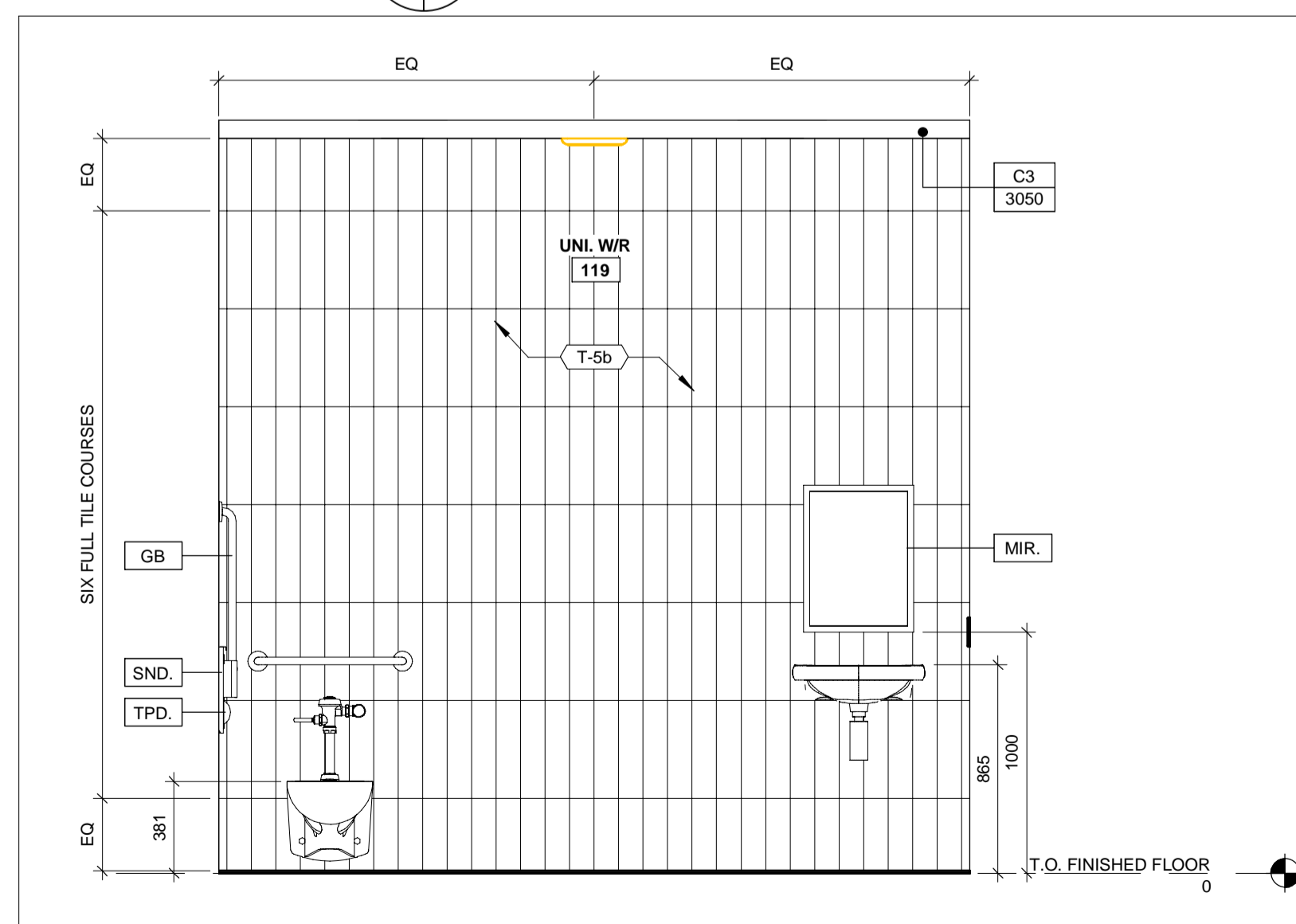
5 INTERIOR ELEVATION LOCKER 2
A-202 A-922 1 : 25



6 GENDER NEUTRAL W/R INTERIOR ELEVATION
A-202 A-922 1 : 25



7 ENLARGED UNIVERSAL W/R
A-900 A-922 1 : 50



8 UNIVERSAL W/R
A-202 A-922 1 : 25

WASHROOM ACCESSORIES LEGEND AND DETAIL

NOTE:

1. ALL WASHROOM LAYOUTS TO CONFORM TO SECTION 3.8 OF THE ONTARIO BUILDING CODE. SEE WASHROOM DETAILS SHEET FOR DETAILS
2. COORDINATE POWER DOOR OPERATORS, EMERGENCY CALL SYSTEMS, VISUAL AND AUDIBLE ALARMS WITH ELECTRICAL AND DOOR SCHEDULE.
3. COORDINATE WALL ASSEMBLIES AND BLOCKING REQUIREMENTS WITH MECHANICAL TOILET CARRIERS.

| | |
|------|--------------------------------|
| TPD. | TOILET PAPER DISPENSER |
| SND. | SANITARY NAPKIN DISPOSAL |
| SD. | SOAP DISPENSER |
| MIR. | MIRROR |
| GB. | GRAB BAR |
| △ | BARRIER FREE PUSH BUTTON - PDO |
| BCH. | BENCH |
| PTW. | COMBO PAPER TOWEL WASTE |

ROOM FINISH LEGEND

NOTE: ALL COLOURS, FINISHES, AND PATTERNS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND SPECIFICATIONS

| | | | |
|------|-----------------------------|------|------------|
| SS-X | SOLID SURFACE | VB | VINYL BASE |
| PL-X | PLASTIC LAMINATE | PT-X | PAINT |
| T-X | TILE (CERAMIC OR PORCELAIN) | | |
| SV | SHEET VINYL | | |

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1890 Fifth Concession Rd

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SUB CONSULTANT

DESIGN BY: JC / MF

SCALE: As Indicated

DRAWN BY: PP

DATE: 03/08/21

CHECKED BY: JC

CONSULTANT PROJECT NO. 60611569

APPROVED BY: RT

CLIENT FILE No.: 811/20

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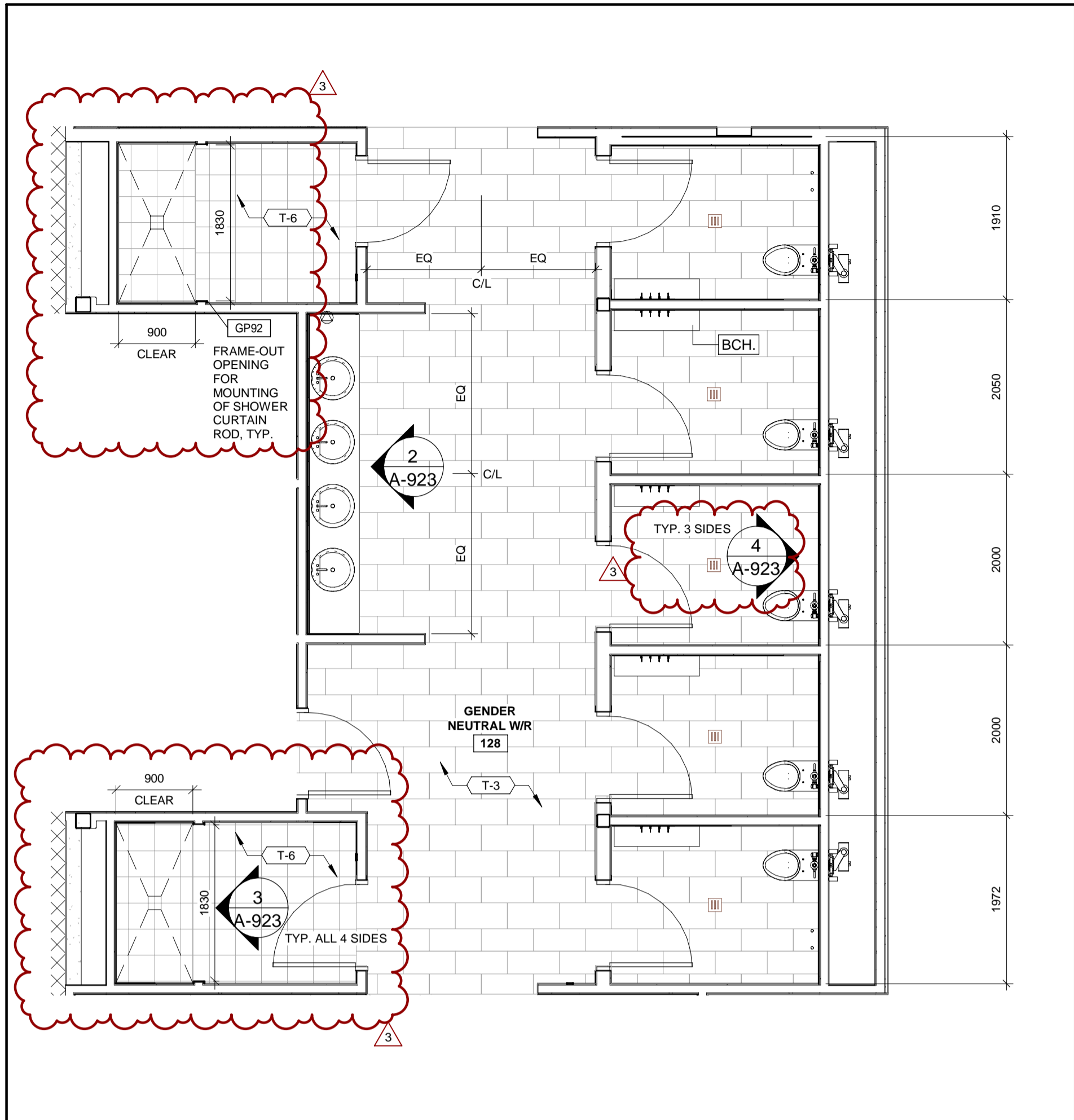


THE REGIONAL MUNICIPALITY OF DURHAM

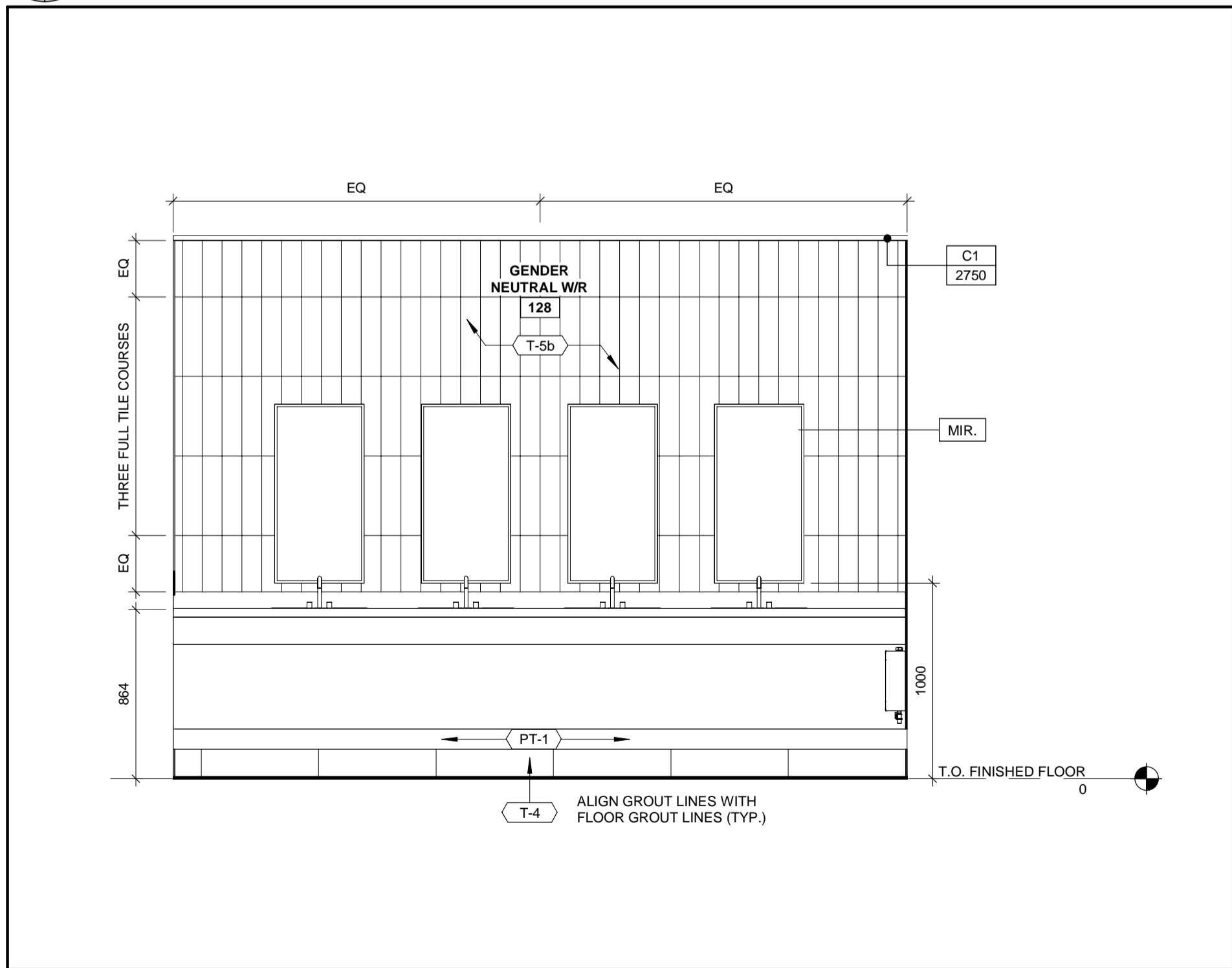
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

**NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
INTERIOR ELEVATIONS AND TILE LAYOUT**

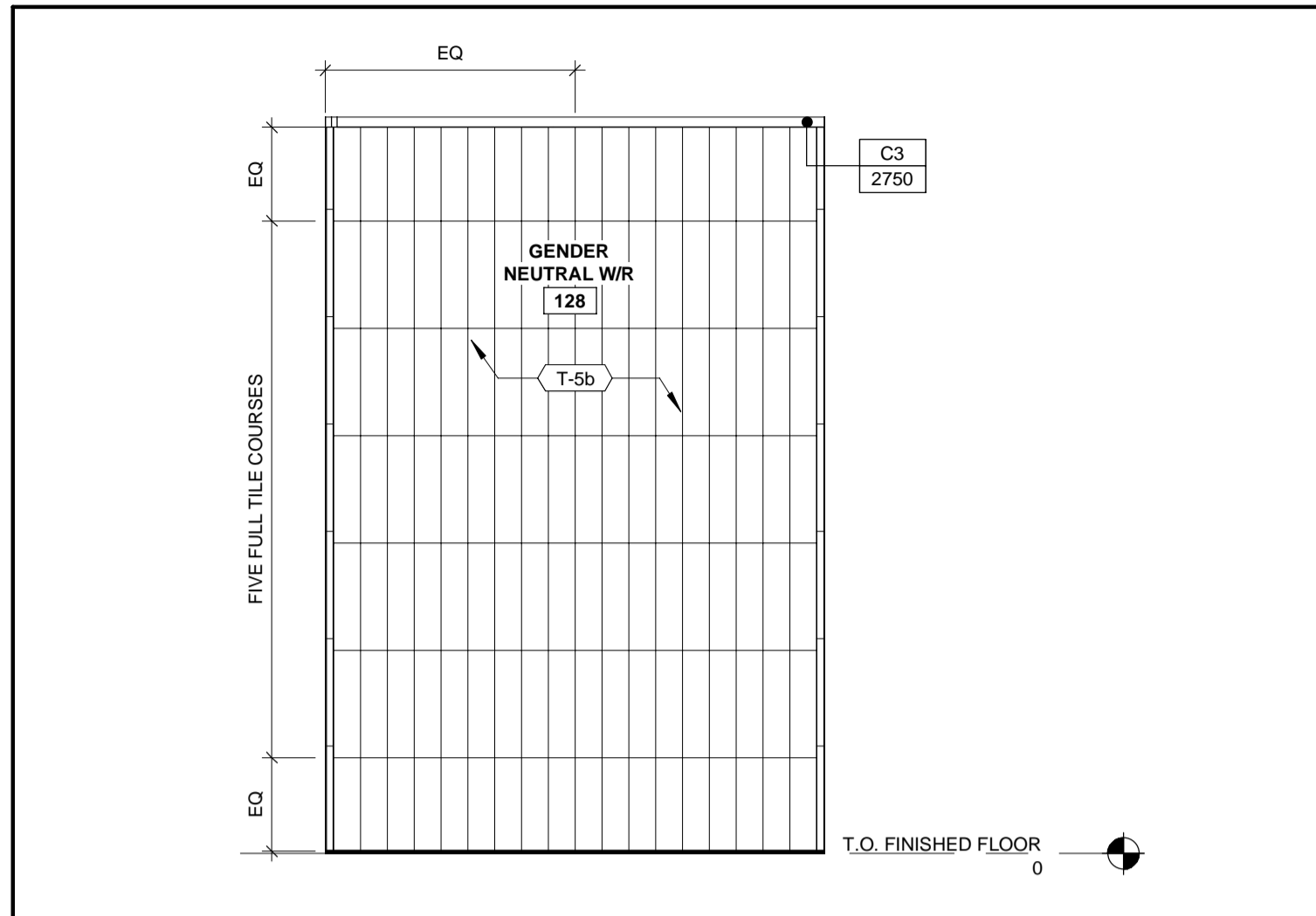
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 922 | SHEET NO. |



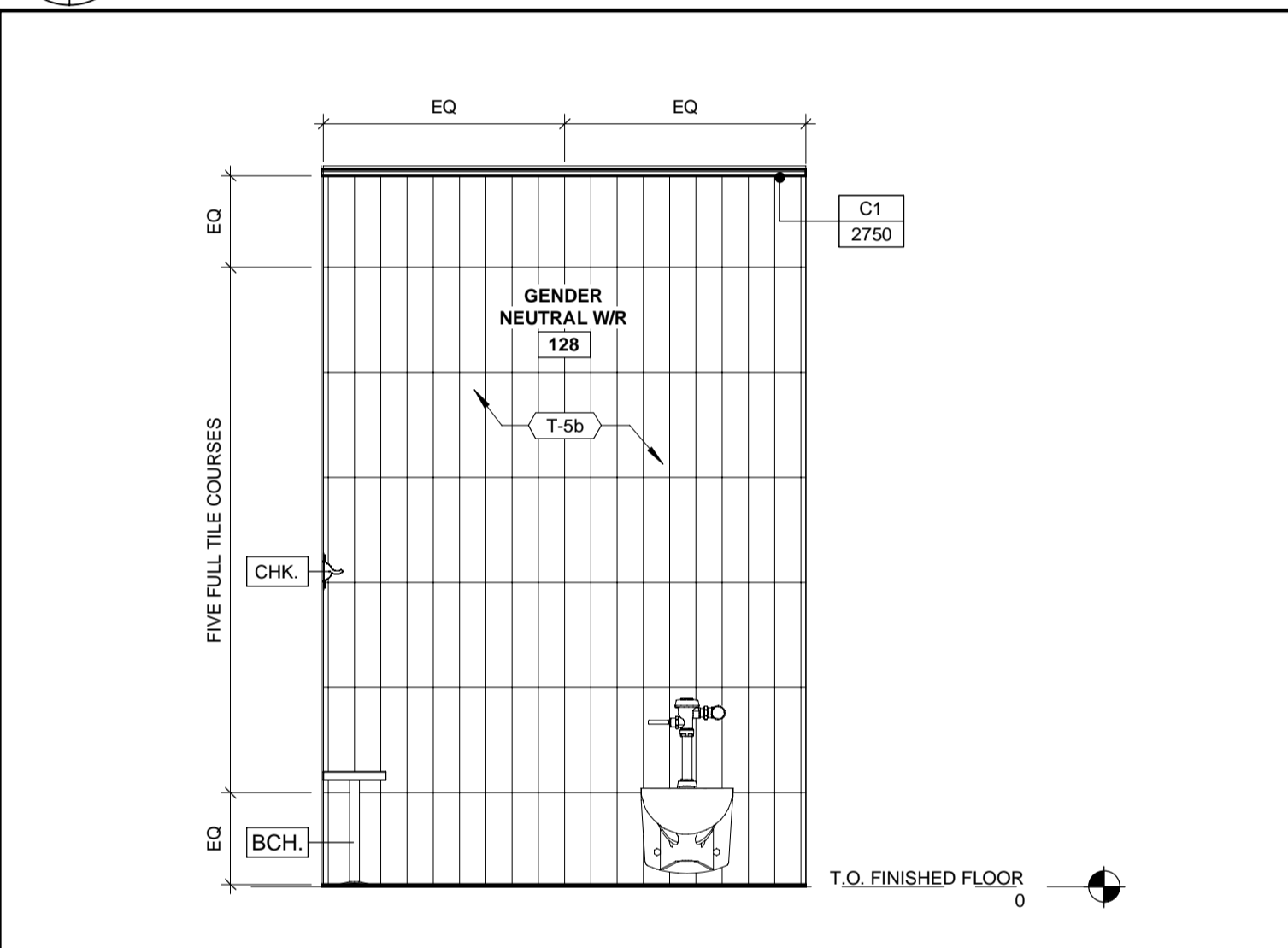
1 ENLARGED PLAN
A-900 A-923 1 : 50



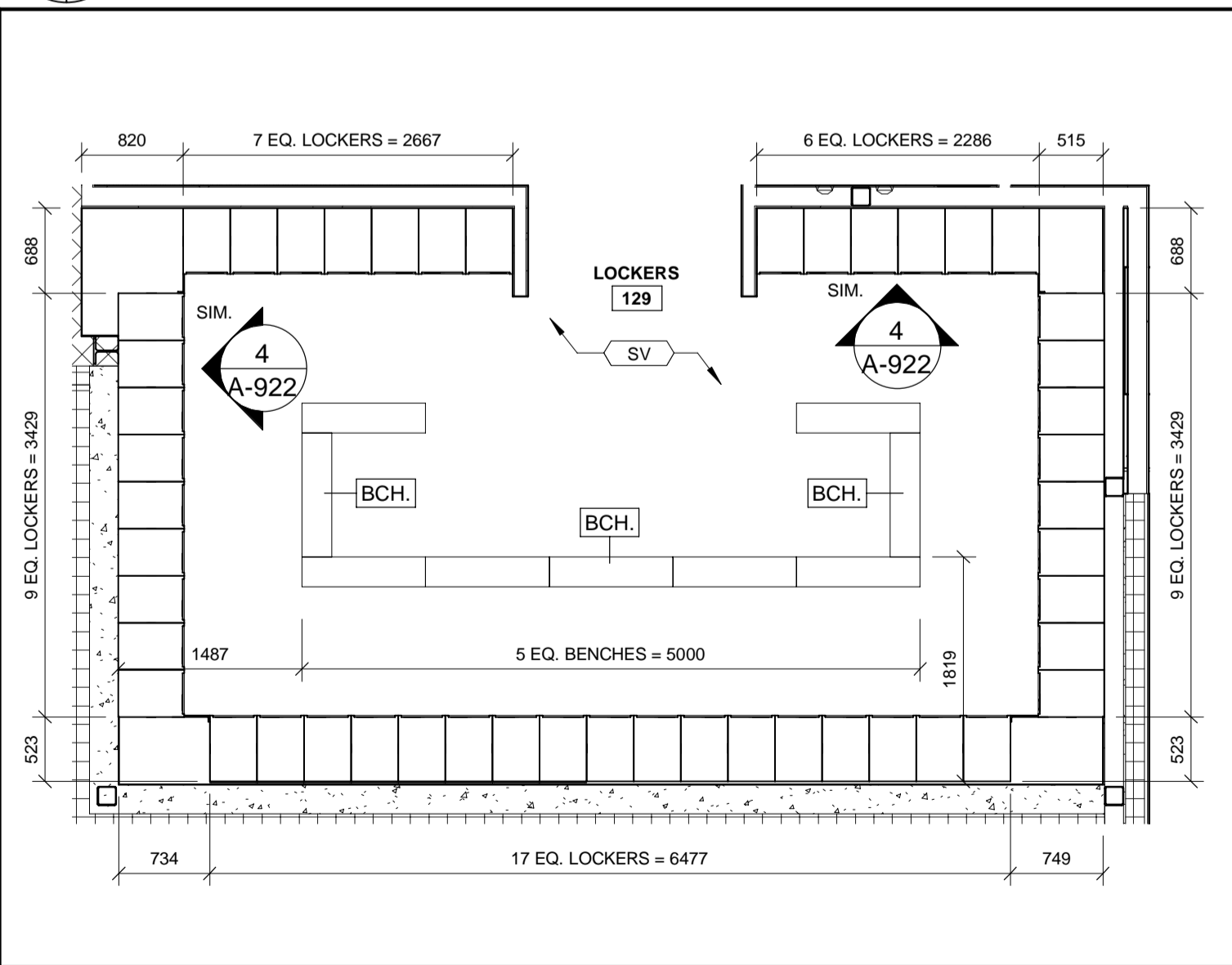
2 INTERIOR ELEVATION W/R SINK
A-203 A-923 1 : 25



3 INTERIOR ELEVATION W/R SHOWER STALL
A-203 A-923 1 : 25



4 INTERIOR ELEVATION W/R TYPICAL STALL
A-203 A-923 1 : 25



6 ENLARGED PLAN LOCKERS
A-900 A-923 1 : 50

WASHROOM ACCESSORIES LEGEND AND DETAIL

NOTE:

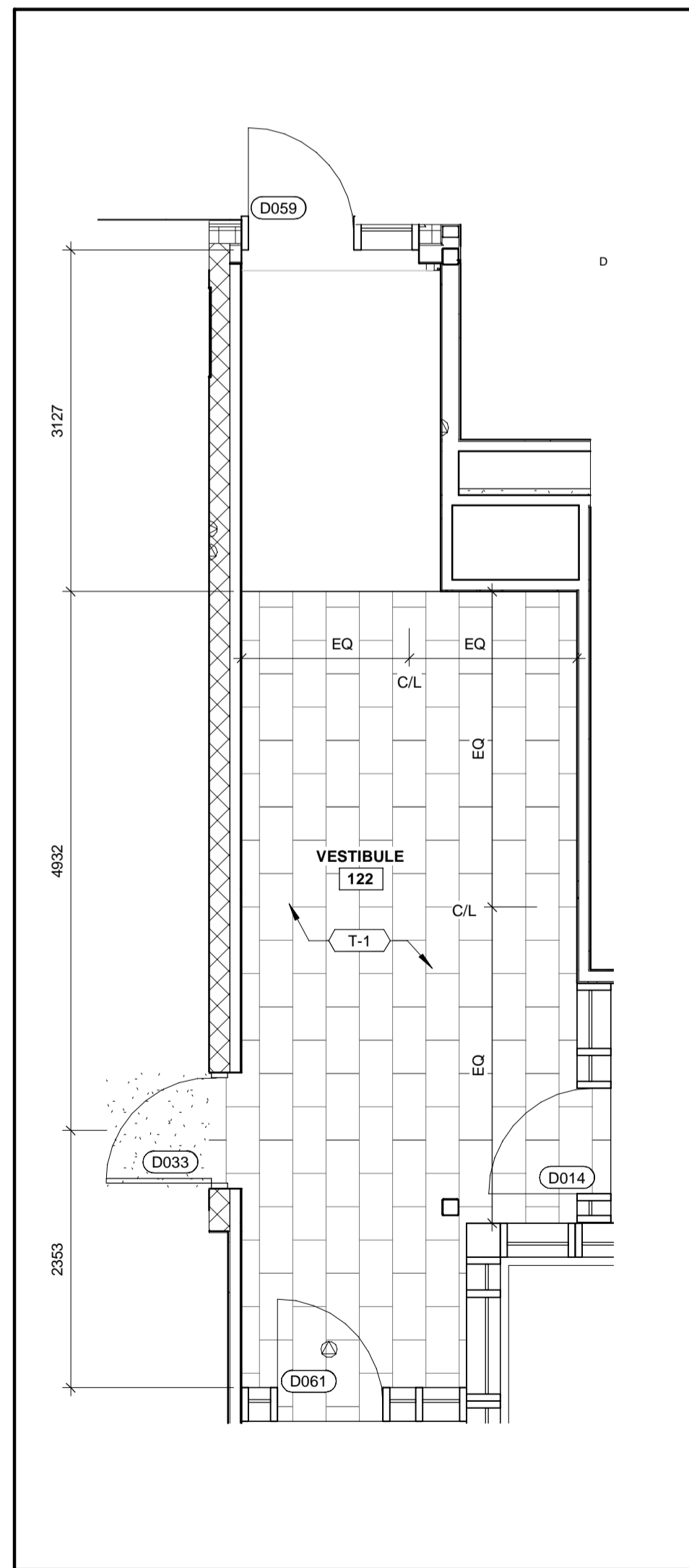
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- COORDINATE WALL ASSEMBLIES AND BLOCKING REQUIREMENTS WITH MECHANICAL TOILET CARRIERS.

MIR. MIRROR
CHK. COAT HOOK
T-5 BARRIER FREE PUSH BUTTON - PDO
BCH. BENCH

ROOM FINISH LEGEND

NOTE: ALL COLOURS, FINISHES, AND PATTERNS TO BE COORDINATED WITH THE OWNER, ARCHITECT, AND SPECIFICATIONS

SS-X SOLID SURFACE VB VINYL BASE
PL-X PLASTIC LAMINATE PT-X PAINT
T-X TILE (CERAMIC OR PORCELAIN)
SV SHEET VINYL



5 ENLARGED PLAN VESTIBULE
A-900 A-923 1 : 50

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LICENCE 4845

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| DRAWN BY: PP | DATE: 03/09/21 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING

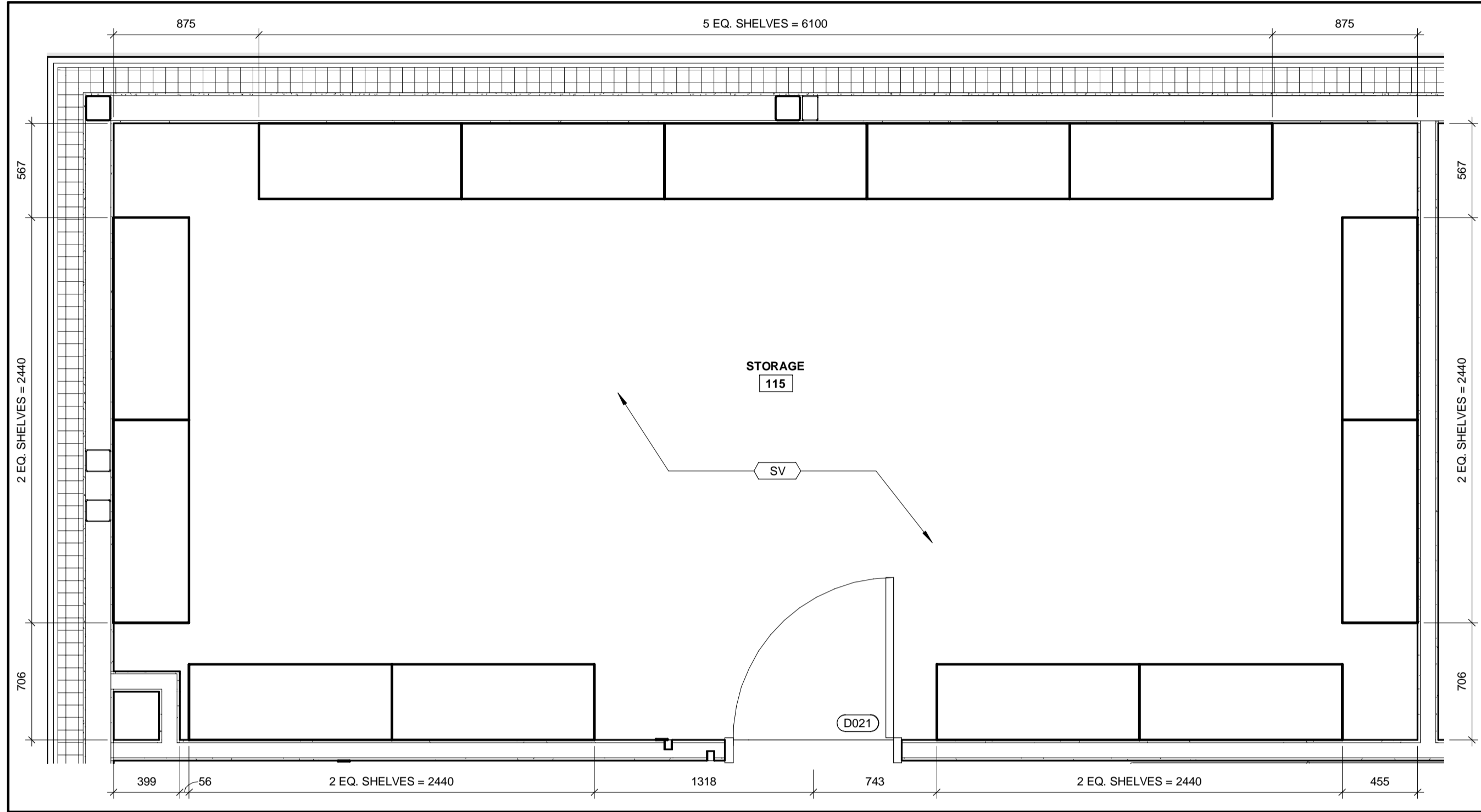
INTERIOR ELEVATIONS AND TILE LAYOUT

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 923 | SHEET NO. |

ROOM FINISH LEGEND

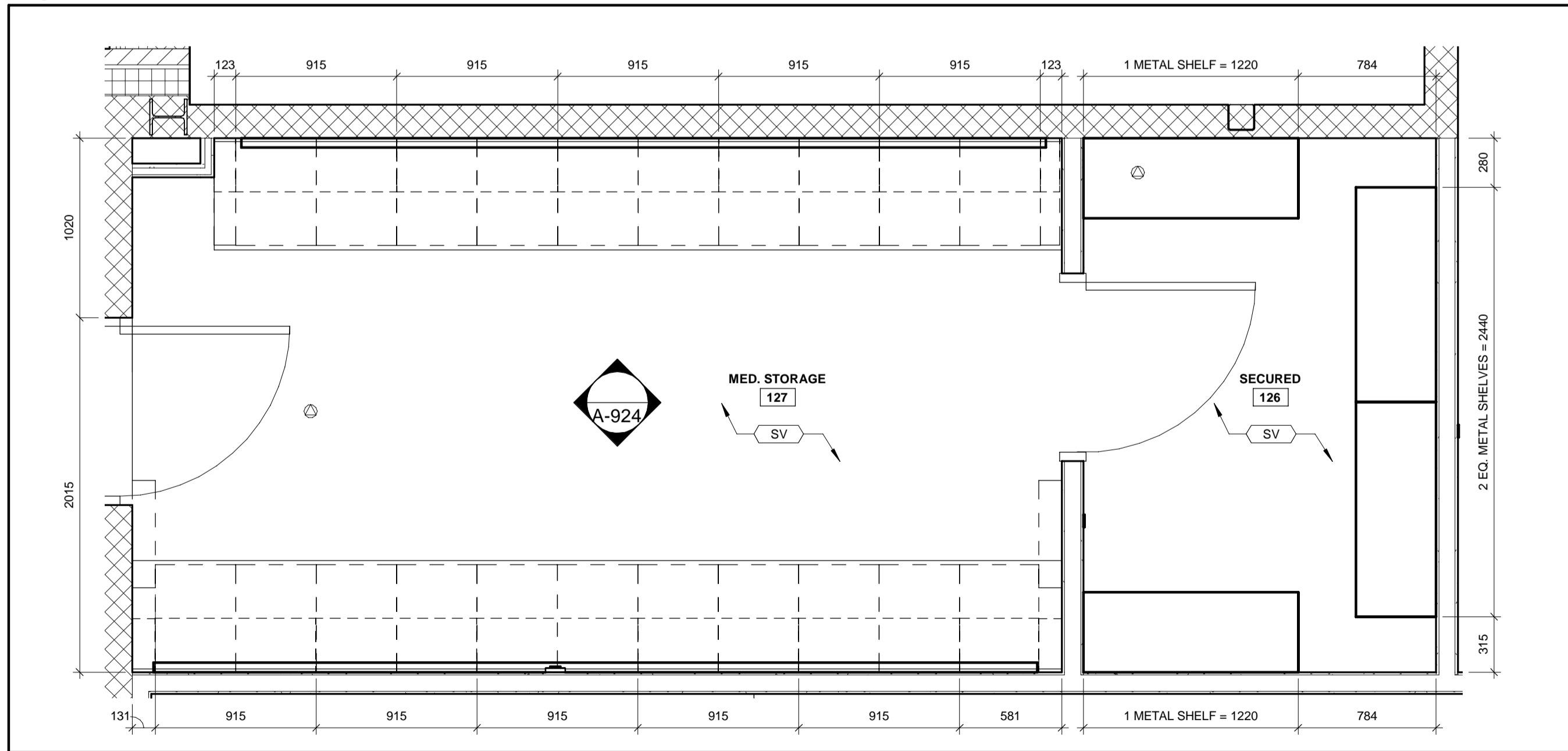
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- VB VINYL BASE
- PL-X PLASTIC LAMINATE
- PT-X PAINT
- T-X TILE (CERAMIC OR PORCELAIN)
- SV SHEET VINYL



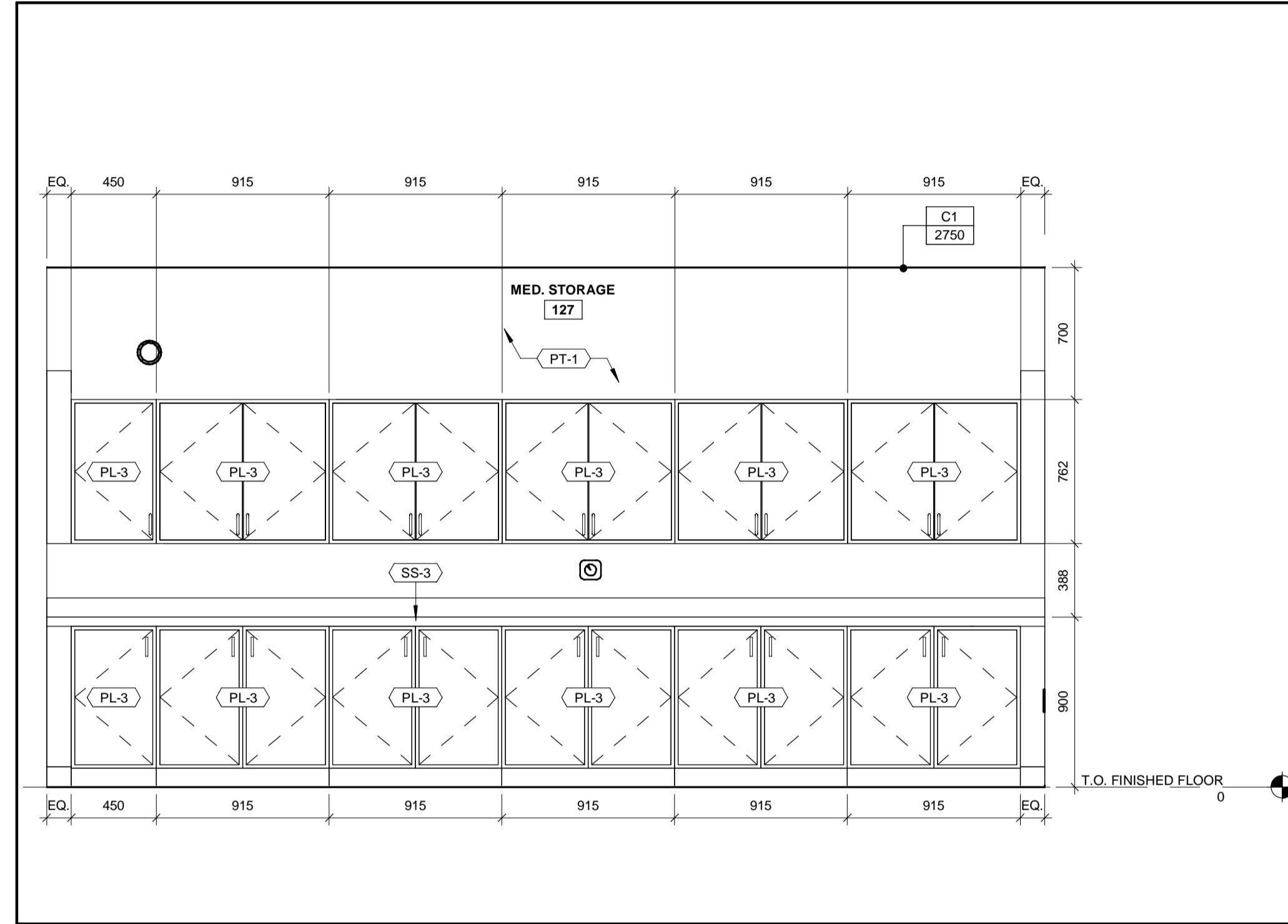
1 ENLARGED STORAGE ROOM

A-900 A-924 1 : 25



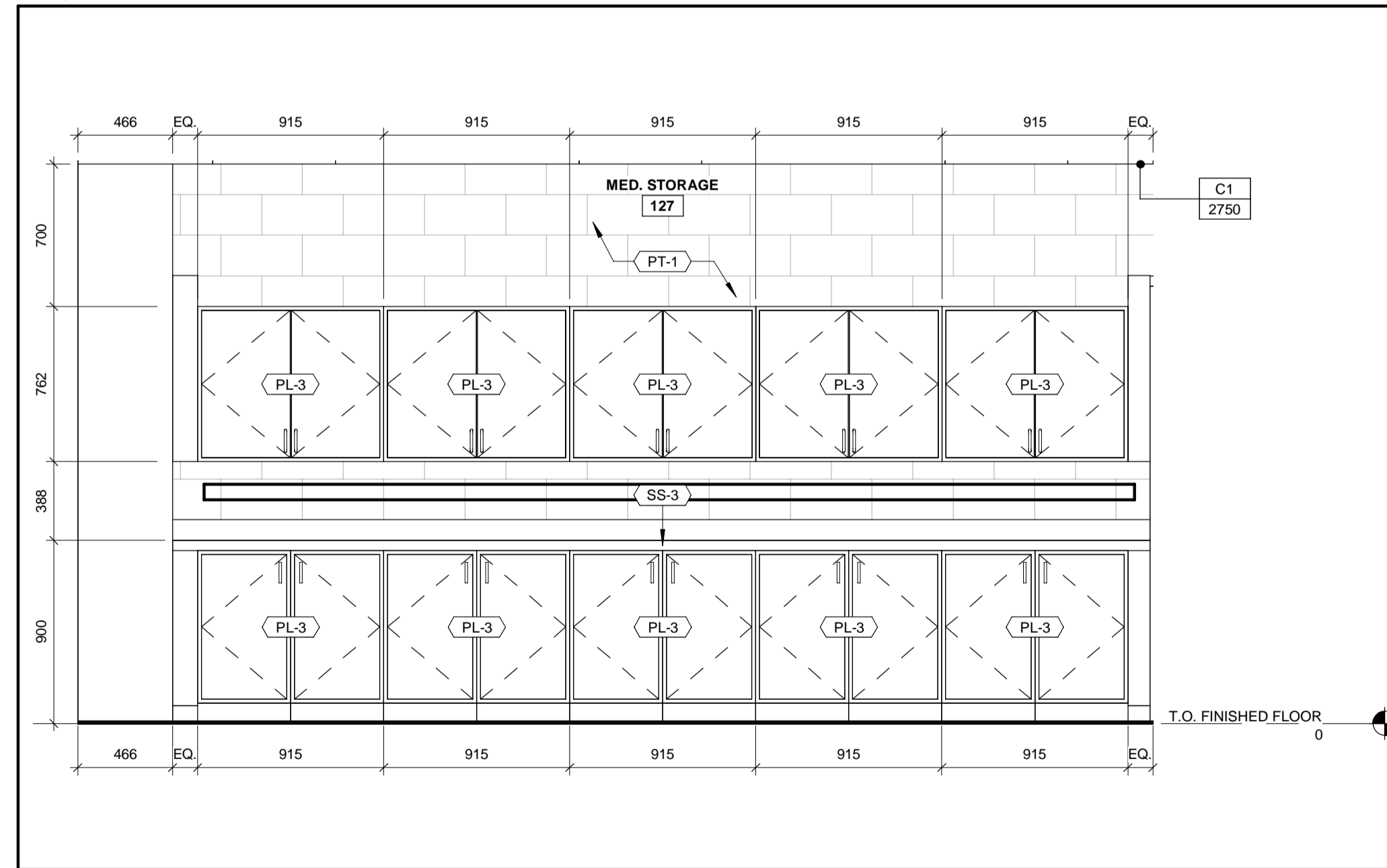
2 ENLARGED MEDICAL STORAGE

A-900 A-924 1 : 25



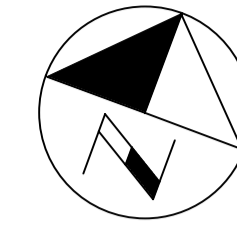
3 INTERIOR ELEVATION - MEDICAL MILLWORK

A-924 A-924 1 : 25



4 INTERIOR ELEVATION - MEDICAL MILLWORK 2

A-924 A-924 1 : 25



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2022.03.14

ONTARIO ASSOCIATION OF ARCHITECTS

ROY HOWARD TURNER

LICENCE 4845

SUB CONSULTANT

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| DESIGN BY: JC / MF | SCALE: As Indicated |
| DRAWN BY: PP | DATE: 03/25/21 |
| CHECKED BY: JC | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: RT | CLIENT FILE No.: 811/20 |

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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

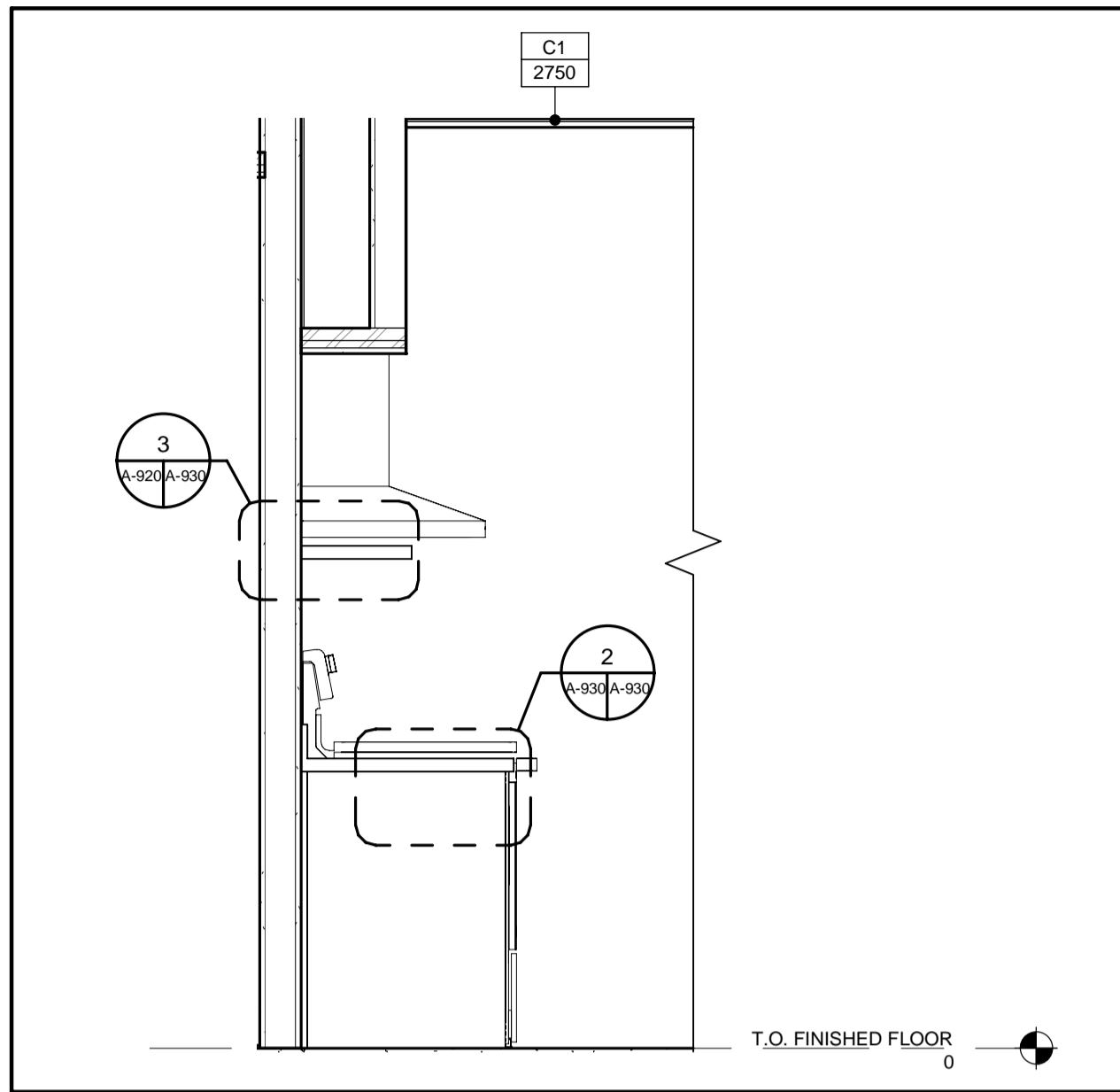
WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

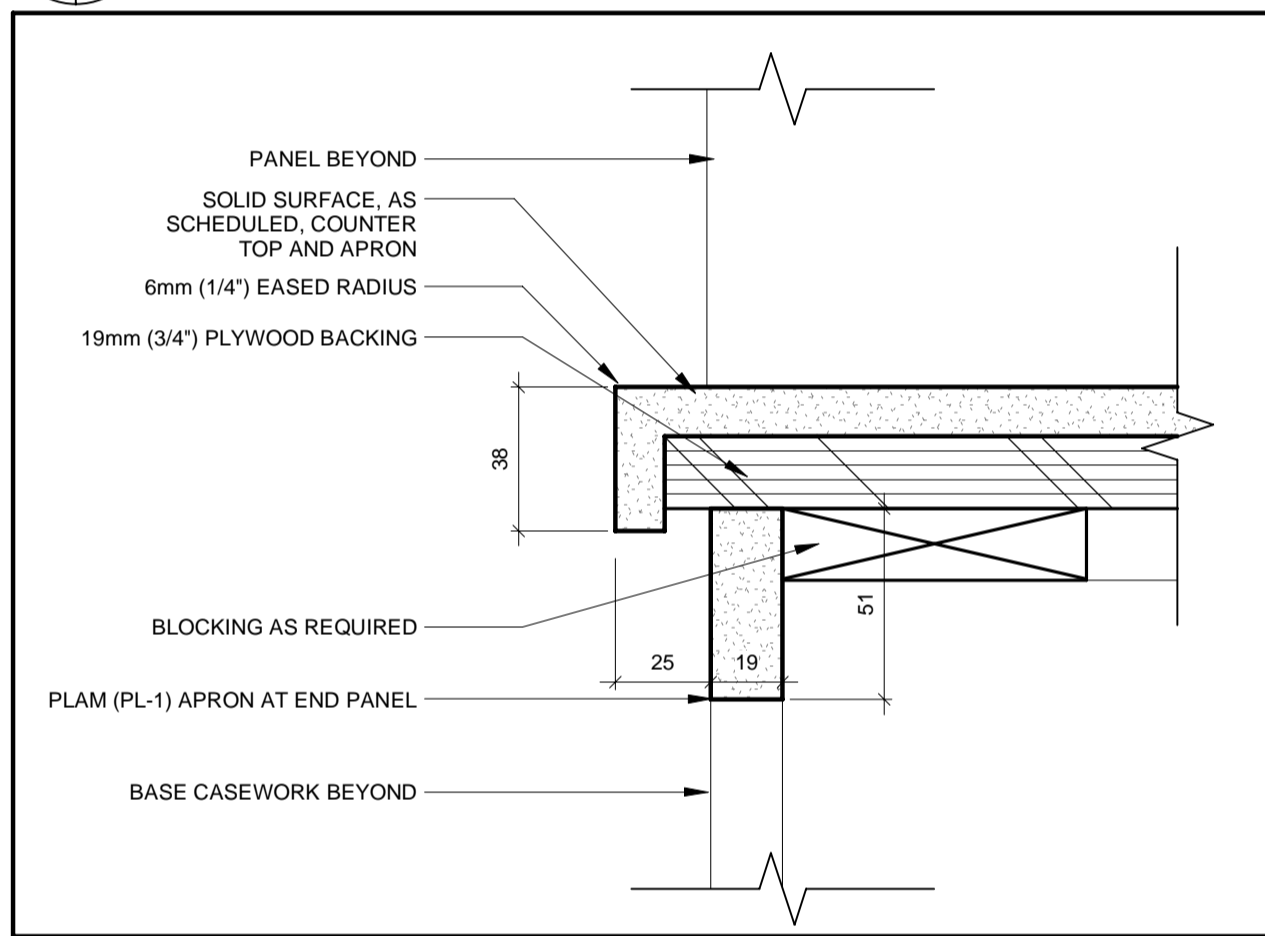
NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING

INTERIOR ELEVATIONS AND MILLWORK

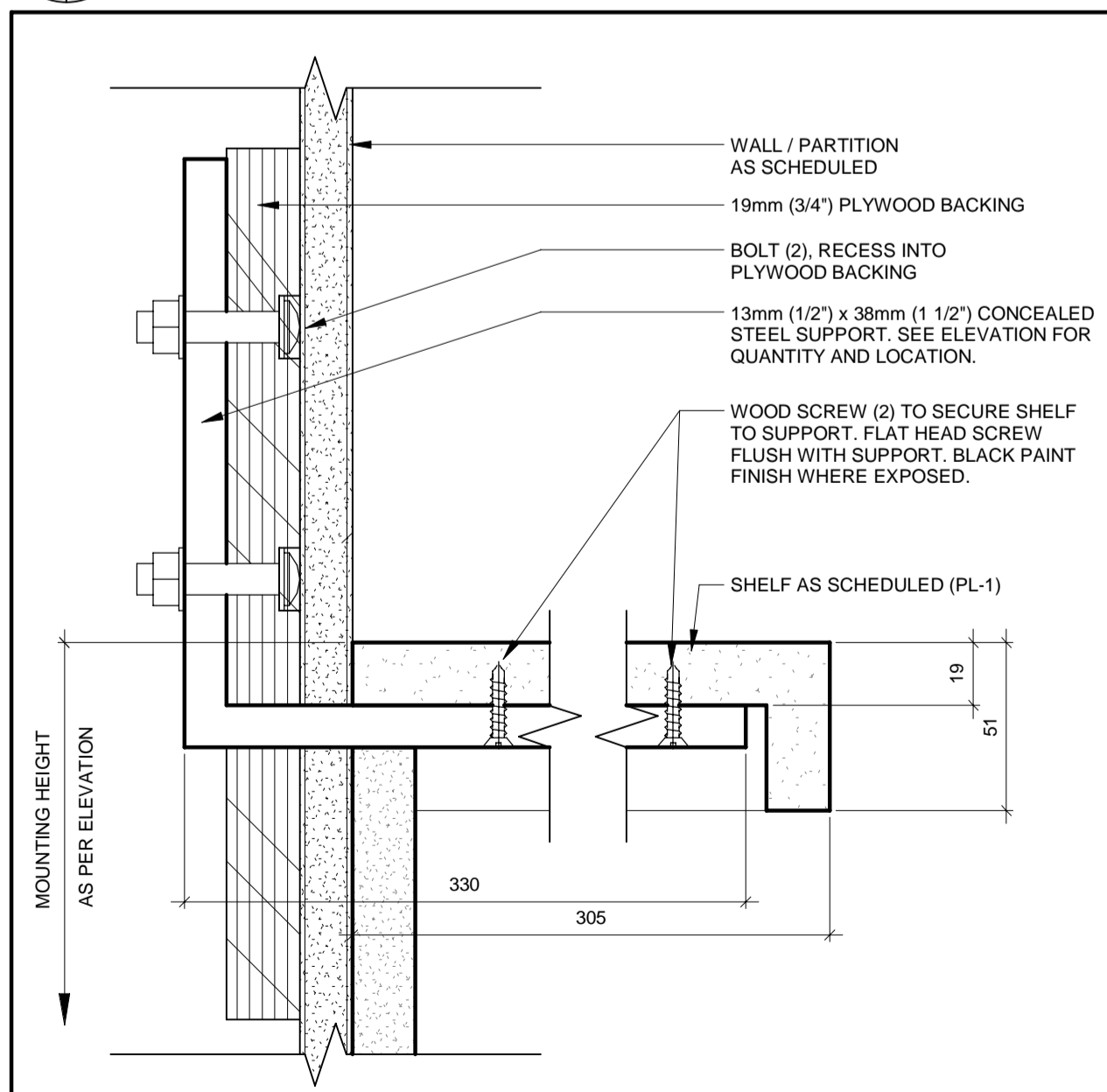
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T- 1160- 2021 | A- 924 | P061- 18- 01 |



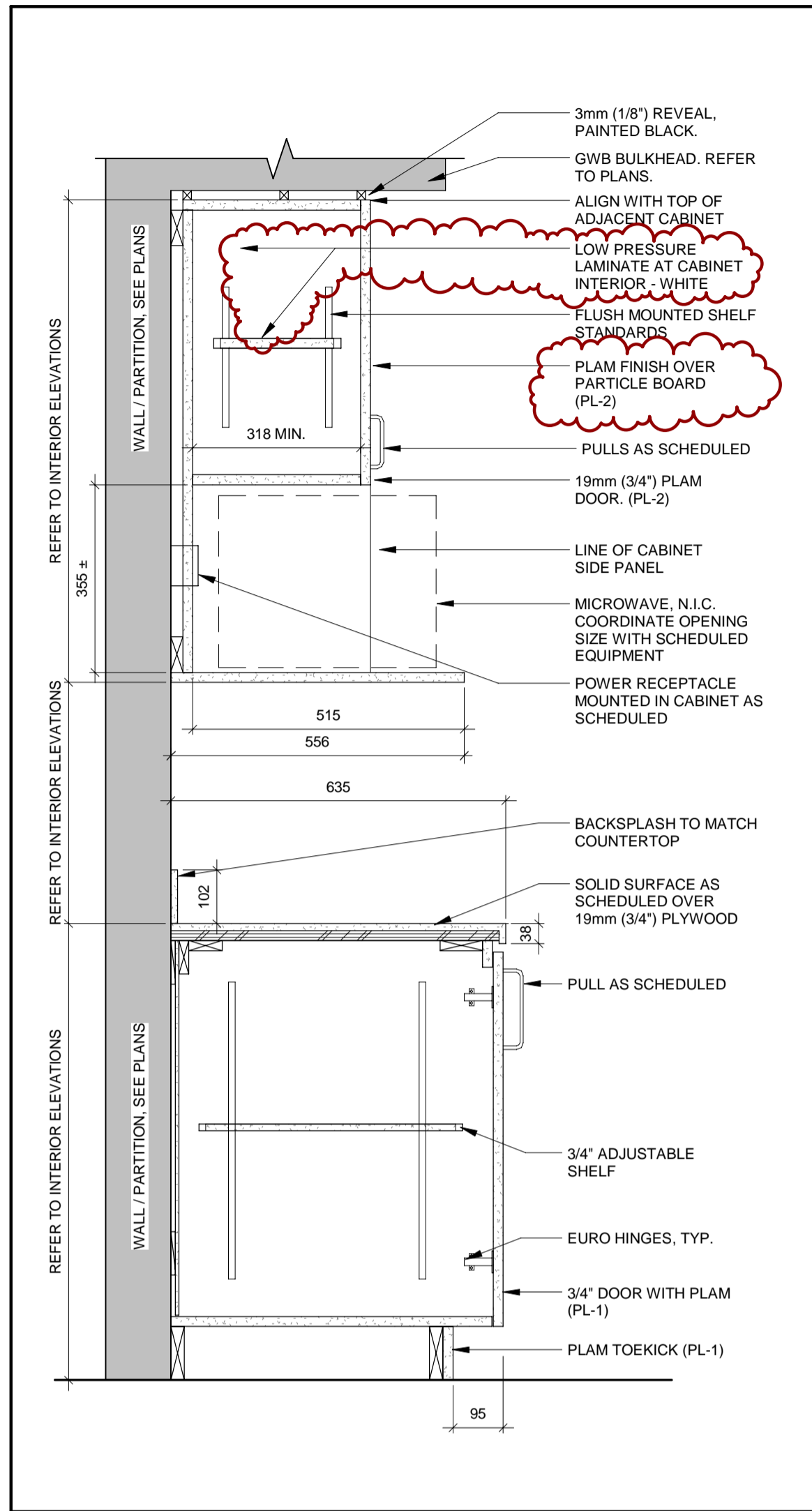
1 CASEWORK SECTION 2
A-921 A-930 1 : 20



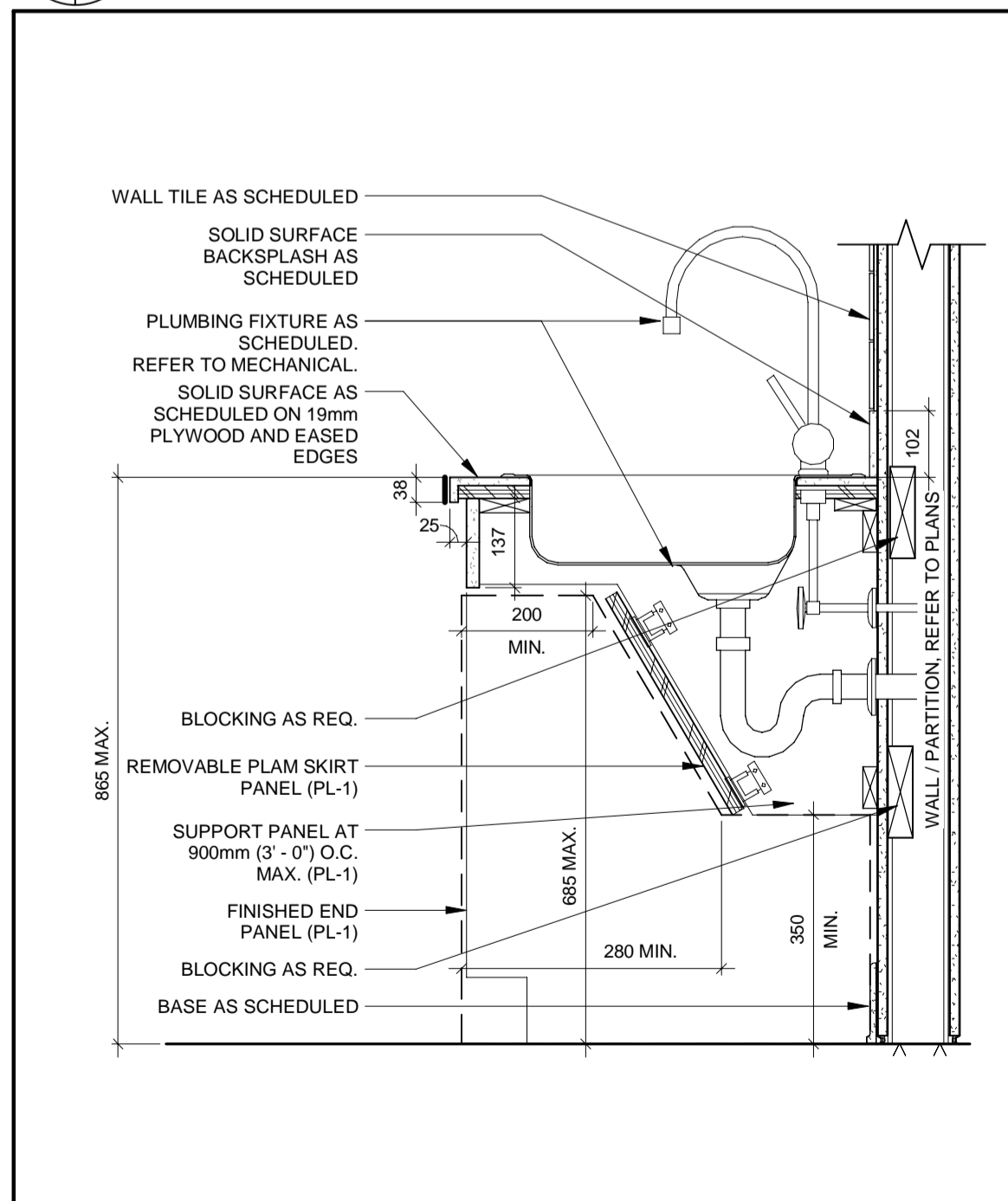
2 COUNTER EDGE
A-921 A-930 1 : 2



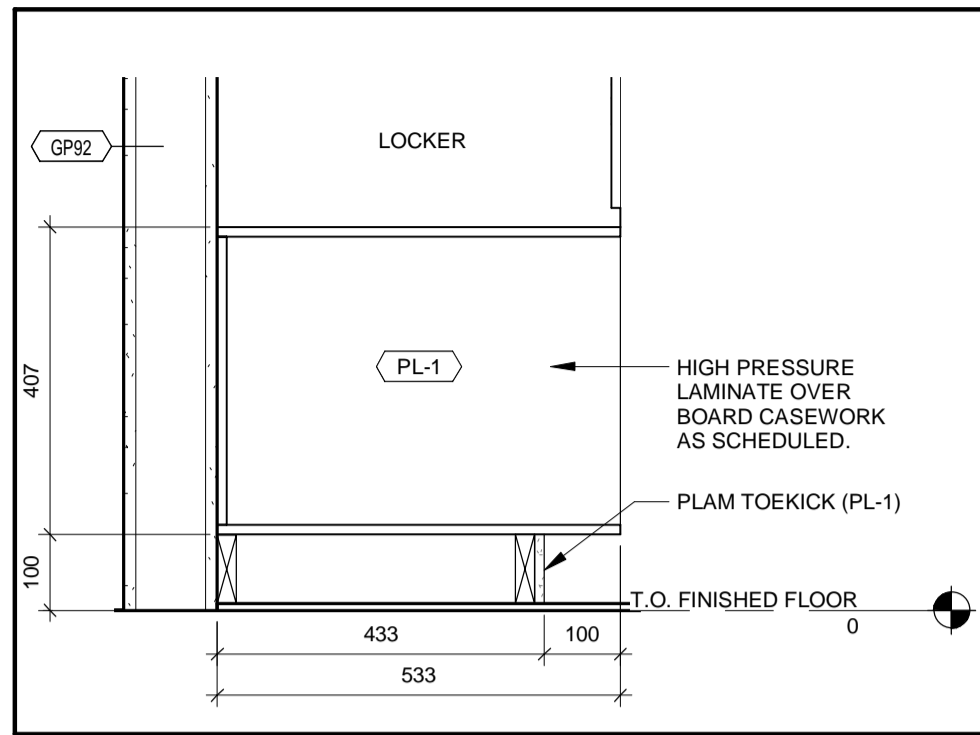
3 SHELF SUPPORT
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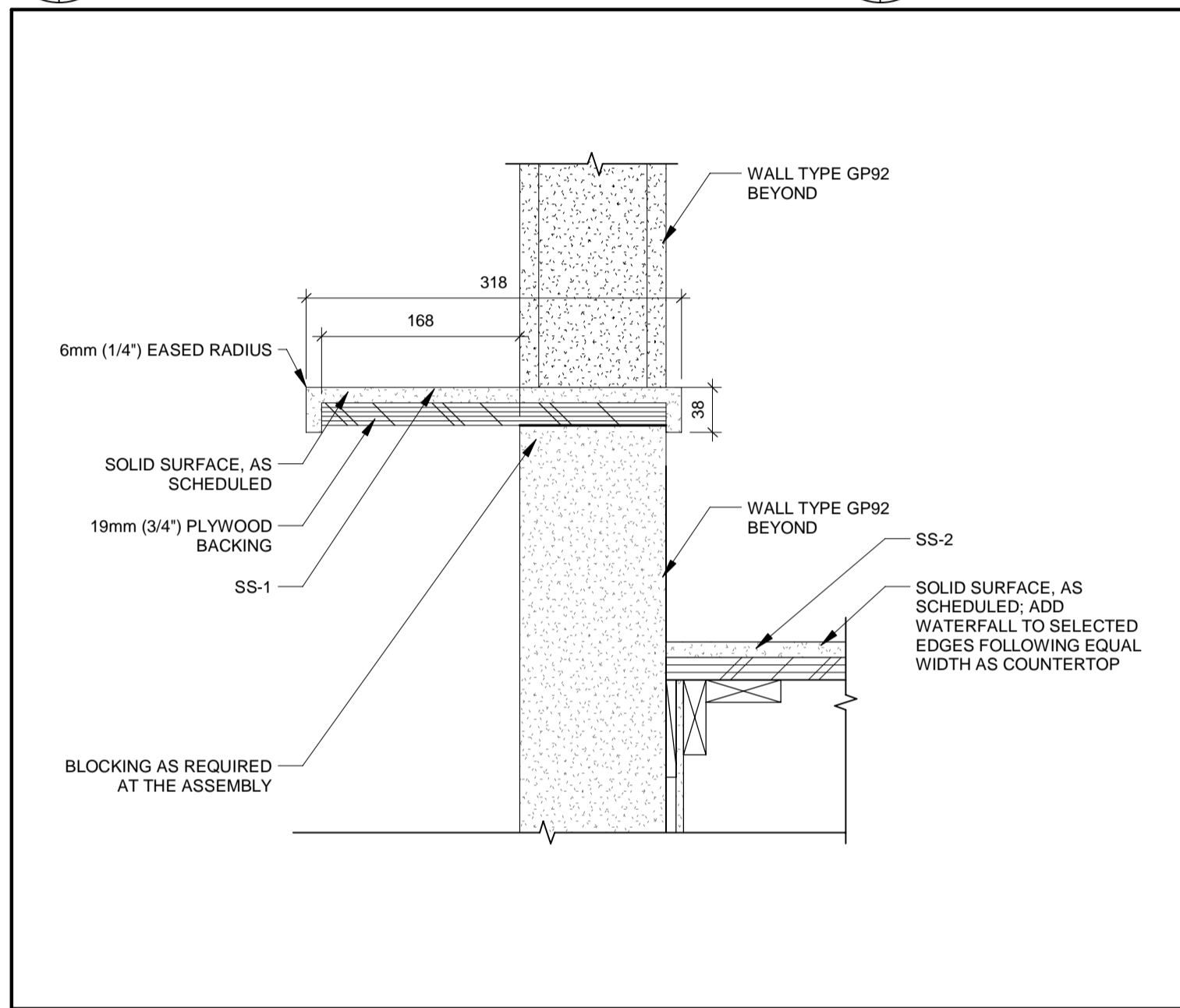
4 COUNTERTOP AND WALL CABINET
A-921 A-930 1 : 10



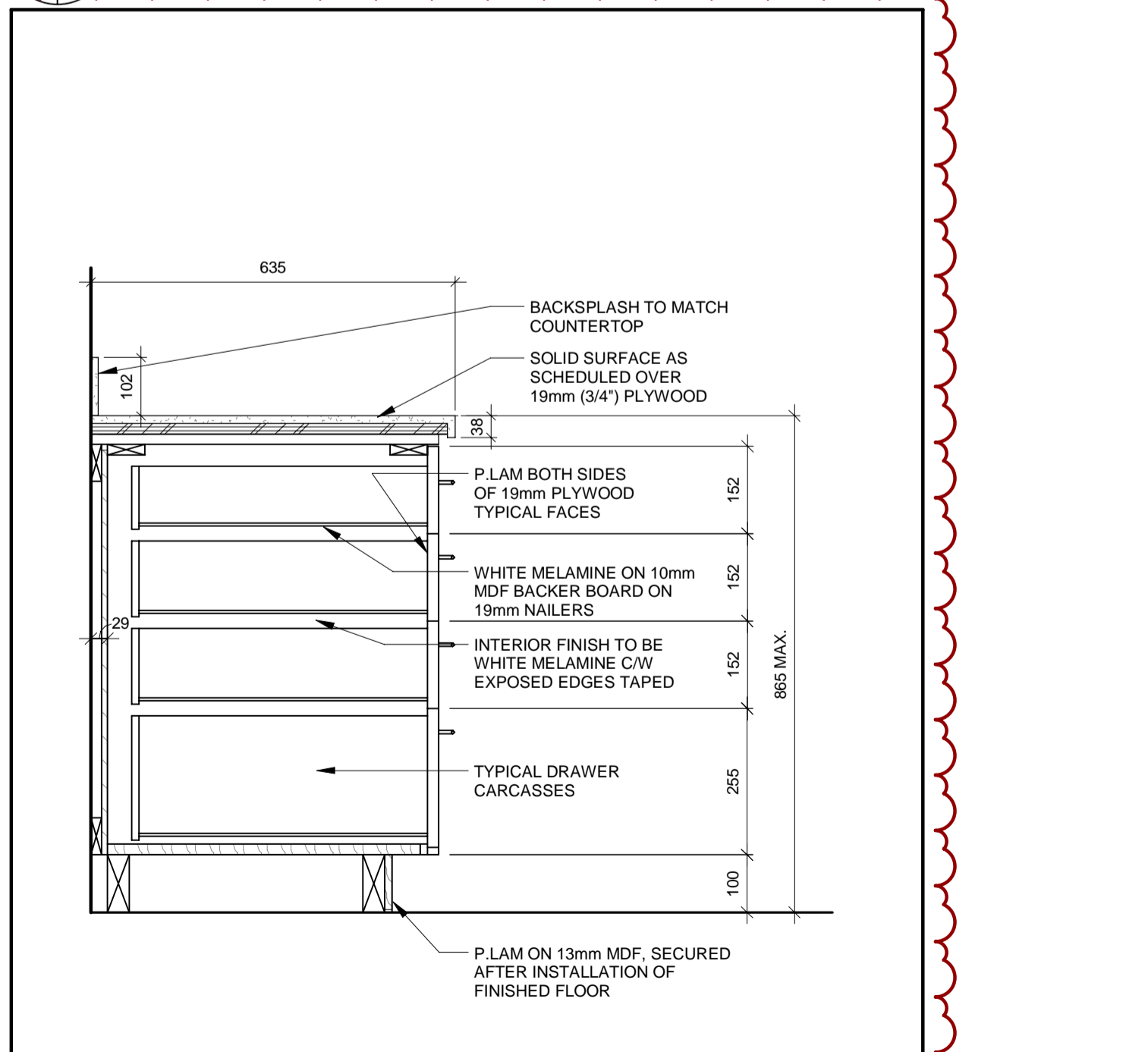
5 BREAK ROOM CABINET SINK
A-930 1 : 10



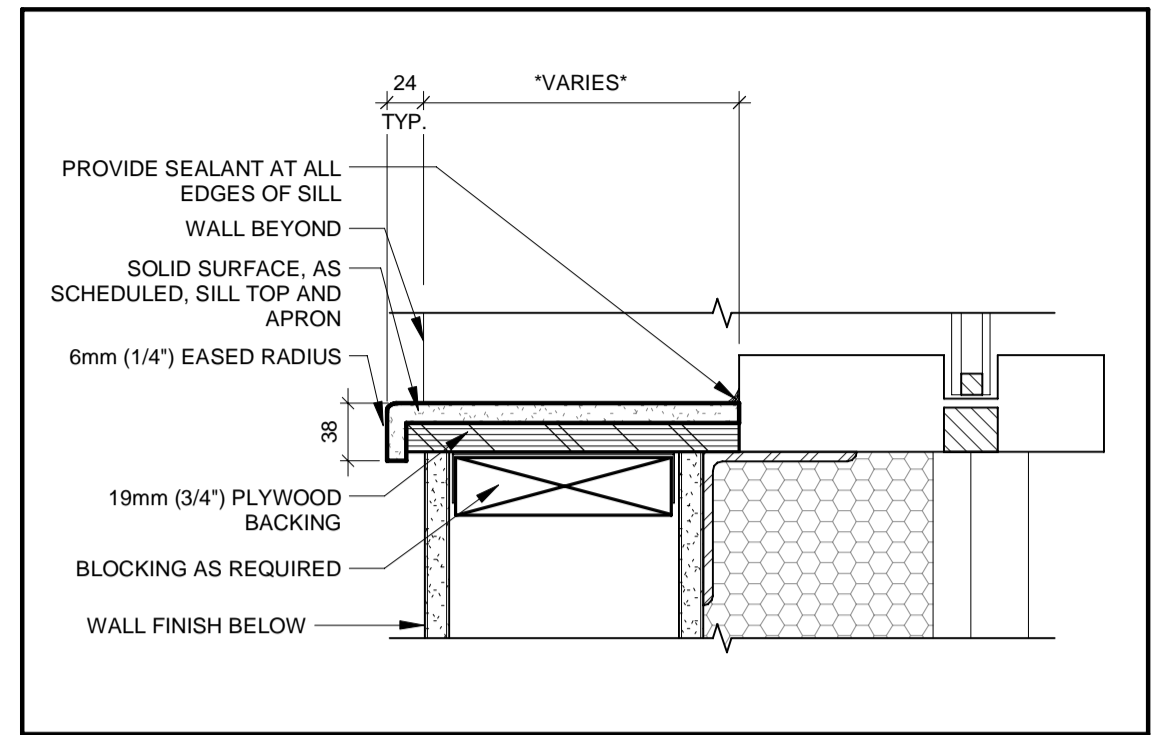
6 CUBBY SECTION
A-202 A-930 1 : 10



7 COUNTER TOP
A-921 A-930 1 : 5



9 DRAWERS
A-930 1 : 10



8 WINDOW SILL TYP.
A-930 1 : 5

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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING CASEWORK DETAILS

| | | |
|----------------------------|--------------------|-------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. A- 930 | SHEET NO. |

GENERAL NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL, ELECTRICAL, CIVIL, AND ARCHITECTURAL DRAWINGS.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (LATEST EDITION), AND STRUCTURAL COMMENTARIES (PART 4 OF THE 2015 NATIONAL BUILDING CODE).
3. ALL DIMENSIONS, ELEVATIONS, OPENINGS FOR PIPES, SLEEVES, EQUIPMENT LOCATIONS AND THE LIKE SHALL BE CHECKED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL, DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
4. PROVIDE ALL NECESSARY PROFESSIONAL ENGINEER CERTIFIED SHORING, SCAFFOLDING AND UNDERPINNING TO EXECUTE THE PROJECT SAFELY.
5. MAKE GOOD ANY DAMAGES DONE DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE CONDITIONS AND CHECK AND VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER EXISTING SERVICES WHICH MAY INTERFERE WITH THE WORK OF THIS PROJECT AND COORDINATE WITH THE OWNER, ENGINEER OR OTHER AUTHORITIES AS MAY BE REQUIRED FOR THEIR RELOCATION, REMOVAL, OR TEMPORARY SUPPORT. PROTECT EXISTING UNDERGROUND UTILITIES, AND OTHER EXISTING CONDUITS, PIPING OR UTILITY SERVICES DURING CONSTRUCTION. MAKE GOOD ANY DAMAGE RESULTING FROM WORK ON THIS PROJECT TO THE SATISFACTION AND FULL INDEMNIFICATION OF THE OWNER AND ENGINEER.
7. THE CONTRACTOR SHALL SUPPLY, REMOVE AND TAKE RESPONSIBILITY FOR ALL TEMPORARY BRACING, EXCAVATION SUPPORT SYSTEM AND DEWATERING NECESSARY TO UNDERTAKE THE WORK.
8. DO NOT SCALE THESE DRAWINGS.
9. OMITTED DIMENSIONS ON FRAMING PLANS AND ELEVATIONS SCHEMATICS INDICATE MEMBERS EQUALLY SPACED BETWEEN DEFINED LINES.

EXCAVATIONS

1. PROVIDE ADEQUATE MEANS OF DEWATERING TO ENSURE EXCAVATIONS ARE DRY AT ALL TIMES. PLACEMENT OF CONCRETE SHALL ONLY BE MADE IN DRY EXCAVATIONS. THE METHOD OF DEWATERING SHALL BE SUCH AS TO PREVENT SETTLEMENT OF, AND ANY DAMAGE TO, ADJACENT STRUCTURES, UTILITIES, OR SERVICES.
2. THE CONTRACTOR SHALL TAKE THE RESPONSIBILITY FOR SHORING THE EXCAVATION TO PREVENT UNDERMINING OF ADJACENT EXISTING FOUNDATIONS.

CONSTRUCTION

1. FORMWORK SHALL CONFORM TO THE REQUIREMENTS OF C.S.A. SPECIFICATION A23M AND A.C.I. SP.4.
2. FORMWORK SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO, TO WITHSTAND ALL SUPERIMPOSED LOADS DURING CONSTRUCTION.
3. SHORING, RE-SHORING, AND CONSTRUCTION LOADS SHALL BE CONTROLLED TO ENSURE THAT NO STRUCTURAL ELEMENT IS OVERSTRESSED.
4. MAKE NECESSARY ALLOWANCE FOR FORMWORK CREEP AND DEFLECTION AND ADJUST ACCORDINGLY TO ACHIEVE THE ELEVATION FOR THE COMPLETION OF THE JOB.
5. CONSTRUCTION JOINTS SHALL BE MADE AND LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE.
6. THE CONTRACTOR SHALL MAKE NECESSARY ALLOWANCE FOR ANY VARIATION AND/OR ANY REVISIONS MADE ON ACCOUNT OF SUB-TRADES AND PRODUCT SELECTION FOR THE COMPLETION OF THE PROJECT.

FOUNDATIONS

1. ALL PERTAINING SOILS INFORMATION AS PER GEOTECHNICAL REPORT PROJECT NO.BRM-00604892-A0 DATED NOVEMBER 26, 2018 BY EXP. AND SUBSEQUENT REVISIONS, SHALL BE USED.
2. REMOVAL OF ALL TOP SOIL, FILL, ORGANIC AND LOOSE MATERIAL FROM THE BUILDING ENVELOPE AS DIRECTED BY GEOTECHNICAL ENGINEER.
3. ANY OVER EXCAVATION DUE TO ERROR OR NECESSITATED BY LOCAL SOFT AREAS, FRACTURED BEARING STRATA OR OTHER DETERIORATED CONDITIONS SHALL BE MADE GOOD WITH 10 MPa CLASS N CONCRETE OR PROPERLY COMPACTED ENGINEERED STRUCTURAL FILL.
4. ENGINEERED STRUCTURAL FILL SHALL BE INSTALLED ABOVE THE EXPOSED AND APPROVED NATIVE SOILS. INSTALL ENGINEERED STRUCTURAL FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ENGINEERED STRUCTURAL FILL SHOULD COMPRISE OF APPROVED GRANULAR MATERIAL SUCH AS OPSS.PROV.1010 GRANULAR 'B' PLACED IN MAXIMUM 300mm LAYERS AND COMPACTED TO 100% SPMD. ENGINEERED FILL SHOULD EXTEND AT LEAST 3 METERS BEYOND THE OUTSIDE OF THE BUILDING.
5. ALL EXTERIOR AND INTERIOR FOOTINGS SHALL BE CARRIED DOWN AT LEAST 1200mm BELOW FINISHED GRADE FOR FROST PROTECTION UNLESS NOTED OTHERWISE.
6. PROTECT FOUNDATIONS, WALLS, SLABS ON GRADE, GRADE BEAMS, FOOTINGS AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION.
7. ALL FOOTINGS SHALL BE PLACED ON UNDISTURBED NATIVE SOIL OR ENGINEERED STRUCTURAL FILL AS INDICATED AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE UNDISTURBED NATIVE SOIL OR ENGINEERED STRUCTURAL FILL AT THE UNDERSIDE OF THE FOOTINGS SHALL HAVE A MINIMUM GEOTECHNICAL BEARING RESISTANCE OF:
- 150 kPa SERVICEABILITY LIMIT STATES (SLS)
225 kPa ULTIMATE LIMIT STATES (ULS)
- BEARING ELEVATION MUST BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PLACING FOOTINGS.
8. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETED. PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF WALLS BELOW GRADE.
9. ALL COLUMNS, PIERS, AND WALL FOOTINGS SHALL BE CENTERED ON THE COLUMN, PIER, OR WALL, RESPECTIVELY UNLESS NOTED.
10. REFER TO ARCHITECTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, DETAILS AND LOCATIONS OF SLAB DEPRESSIONS, SLOPES, TRENCHES, ETC.
11. PROVIDE A 75mm THICK CONCRETE SLAB (MUD SLAB) UNDER FOOTINGS WHEN SOIL AND WEATHER CONDITIONS CREATE A MUDDY SURFACE ON THE SLAB.
12. PROVIDE A 20mm CHAMFER AT EXPOSED CORNERS.
13. PROVIDE TEMPORARY SHORING, ETC., ADEQUATE TO SUPPORT EXISTING STRUCTURES DURING CONSTRUCTION.
14. DO NOT POUR CONCRETE UNTIL ALL ELECTRICAL, CIVIL, AND MECHANICAL CONDUITS, PIPING OR OTHER EMBEDDED SERVICES ARE INSTALLED AND VERIFIED.

CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ALL C.S.A. A23 SERIES STANDARDS.
2. CONCRETE STRENGTH AFTER 28 DAYS SHALL BE AS FOLLOWS:

| TYPE | STRENGTH | CLASS OF EXPOSURE |
|---|----------|-------------------|
| LEAN CONCRETE FILL, MUD SLAB | 10 MPa | N |
| FOOTINGS | 25 MPa | N |
| PIERS, FOUNDATION WALLS, AND CONCRETE WALLS | 25 MPa | F-2 |
| OFFICE - INTERIOR SLAB ON GRADE, CONCRETE ON DECK, AND TOPPINGS | 25 MPa | N |
| GARAGE - INTERIOR SLAB ON GRADE | 35 MPa | C-1 |
| EXTERIOR SLAB ON GRADE | 35 MPa | C-1 |

3. MINIMUM CONCRETE COVER TO REINFORCING BARS:

| EXPOSURE CONDITION | N | F-2 | C-1 |
|--|------|------|------|
| CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 75mm | 75mm | 75mm |
| BEAMS AND PIERS | 30mm | 40mm | 60mm |
| SLABS, WALLS, JOISTS, SHELLS, AND FOLDED PLATES | 30mm | 40mm | 60mm |
| RATIO OF COVER TO NOMINAL BAR DIAMETER | 1.0 | 1.5 | 2.0 |
| RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE | 1.0 | 1.5 | 2.0 |

4. HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE WALLS ARE NOT PERMITTED EXCEPT WHERE SHOWN ON THESE DRAWINGS. LEAVE CHASES AND POCKETS IN WALLS FOR SEATING OF SLABS AND BEAMS.
5. NO OPENINGS OTHER THAN THOSE INDICATED ON STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE WALLS, COLUMNS, BEAMS AND SLABS WITHOUT PRIOR REVIEW BY THE CONSULTANT. SUBMIT DRAWINGS INDICATING ADDITIONAL OPENINGS TO THE CONSULTANT FOR REVIEW BEFORE PROCEEDING WITH THE WORK.
6. REINFORCE ALL SIDES OF OPENINGS IN CONCRETE WALLS AND SLABS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS:
- WALLS
- LENGTH OF BARS EQUAL TO OPENING DIMENSION PLUS 600mm BOTH SIDES.
 - USE 2-15M BARS FOR WALL THICKNESS UP TO 200mm.
 - USE 2-20M BARS FOR WALL THICKNESS OVER 200mm.
- SLABS
- ADD ADDITIONAL REINFORCING BARS EACH SIDE OF OPENING EQUAL TO 50% OF INTERRUPTED BARS AND EXTEND THEM 800mm BEYOND OPENINGS.
7. JOINT CHAMFER: ALL FLUSH CONCRETE SURFACES MEETING AT JOINTS IN VISIBLE LOCATIONS SHALL BE FORMED WITH A 'V' SHAPED REGLLET AT FACE (20mm DEEP).
8. FILL AND REFINISH ALL VOIDS. FORM-WIRE LOCATIONS ETC.
9. USE PORTLAND TYPE GU FOR ALL CONCRETE UNLESS NOTED OTHERWISE.
10. STRUCTURAL GROUT UNDER BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC, AND HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 50 MPa.
11. BONDING AGENT FOR POURING NEW CONCRETE AGAINST EXISTING, APPLY THE EPOXY BONDING ADHESIVE TO EXPOSED EXISTING SURFACES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. USE SIKADUR 32 HI-MOD BY SIKA OR ENGINEER APPROVED EQUAL.
12. DOWELLING INTO EXISTING CONCRETE: FOR DOWELLING REINFORCING STEEL BARS INTO THE EXISTING CONCRETE, DRILL AND PREPARE A CONCRETE HOLE, 3mm LARGER THAN THE BAR DIAMETER. SET THE BAR INTO THE SPECIFIED HOLE USING THE EPOXY BONDING ADHESIVE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. USE HIT HY 200 ADHESIVE BY HILTI OR ENGINEER APPROVED EQUAL.
13. COORDINATE THE PLACEMENT OF ALL CONCRETE INSERTS AND ANCHOR BOLTS SUPPLIED BY OTHERS.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH C.S.A. G30.18M - GRADE 400.
2. REINFORCING BARS SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS AND ELEVATION VARIATIONS UNLESS NOTED. CONTINUOUS BARS SHALL BE FULLY DEVELOPED BYLAPPING WHERE SPLICED.
3. DETAIL, BEND, PLACE, AND SUPPORT REINFORCING STEEL IN CONFORMANCE WITH RSIO MANUAL OF STANDARD PRACTICE, UNLESS NOTED OTHERWISE.
4. ALL TENSION SPLICES ARE CLASS 'B'.

SLAB-ON-GRADE

1. SEE PLAN FOR SLAB THICKNESS AND REINFORCEMENT.
2. SLAB ON GRADE SHALL BE PLACED ON A 150mm BASE COURSE OF GRANULAR 'A' BACKFILLED AS PER OPSS.PROV.1010 COMPACTED TO 100% SPMD. MINIMUM. ALL INFILLING BELOW THE GRANULAR 'A' SHOULD BE WELL GRADED FREE DRAINING GRANULAR 'B' TYPE I BACKFILL AS PER OPSS.PROV.1010 COMPACTED TO A MINIMUM OF 100% SPMD. ALL ENGINEERED FILL MUST BE INSPECTED, APPROVED AND COMPACTION VERIFIED BY THE GEOTECHNICAL ENGINEER.
3. PRIOR TO PLACING GRANULAR FILL MATERIALS, PROOF-ROLL EXISTING SUB-GRADE TO IDENTIFY INCONSISTENCIES OR SOFT AREAS. PROCEED WITH GRANULAR PLACEMENT ONLY AFTER THESE AREAS HAVE BEEN RE-WORKED AND COMPACTED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
4. DO NOT POUR CONCRETE UNTIL ALL ELECTRICAL AND MECHANICAL CONDUITS, PIPING OR OTHER EMBEDDED SERVICES ARE INSTALLED, AND VERIFIED.
5. MAINTAIN SLAB THICKNESS INDICATED ON THE DRAWINGS IN ALL CASES.
6. PROVIDE SLAB ON GRADE THICKENING UNDER ALL NON-LOADBEARING MASONRY WALLS UNLESS NOTED OTHERWISE.
7. AGREE TO LOCATIONS OF CONSTRUCTION JOINTS WITH ENGINEER PRIOR TO CONSTRUCTION.
8. PROVIDE SAW-CUT CONTROL JOINTS OF 30 x 1 (t = SLAB THICKNESS) MAXIMUM SPACING WITHIN 18 HOURS AFTER CONCRETE POUR (FOR JOINTED FLOORS) UNLESS NOTED OTHERWISE.
9. PROVIDE INTERIOR COLUMN ISOLATION JOINTS AND SAW-CUTTING AS PER DETAILS.

- 10.PERFORM SAW-CUTTING FOR CONTROL JOINTS USING DRY METHOD (SOFT-CUT SAW) AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT WITHOUT LEAVING TREAD MARKS. DISLODGING AGGREGATE AND BEFORE UNCONTROLLED SHRINKAGE OCCURS. FILL CONTROL JOINTS, AS SPECIFIED, NO SOONER THEN 120 DAYS AFTER CONCRETE POUR.

- 11.PROVIDE SLAB ON GRADE THICKENING TO SUIT ANY ANCHORS OR INSERTS AS REQUIRED, UNLESS NOTED.

- 12.HARDENER: FOR ALL SLAB AREAS EXPOSED TO VEHICULAR TRAFFIC (INTERIOR VEHICLE BAY, EXTERIOR APRON SLABS, EXTERIOR GARBAGE CONTAINER SLAB), APPLY A HEAVY DUTY APPLICATION OF FLOOR HARDENER AT A RATE OF 7-8 kg/m2 (140-160 lbs. PER 100sf) OF FLOOR AREA, IN ACCORDANCE WITH THE SPECIFICATIONS.

- 13.FOR FLOOR FINISHES SEE THE SPECIFICATIONS.

MASONRY

1. ALL MASONRY RELATED DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CAN/CSA STANDARDS:
- S304.1 DESIGN OF MASONRY STRUCTURES
 - A165 SERIES STANDARDS ON CONCRETE MASONRY UNITS
 - A179 MORTAR AND GROUT FOR UNIT MASONRY
 - A370 CONNECTORS FOR MASONRY
 - A371 MASONRY CONSTRUCTION FOR BUILDINGS
 - G30.18 BILLET STEEL BARS FOR CONCRETE REINFORCING
 - G30.3 COLD DRAWN STEEL WIRE FOR CONCRETE REINFORCING
 - G164 HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES
2. CONCRETE BLOCK SHALL BE NORMAL WEIGHT, METRIC MODULAR, MOISTURE CONTROLLED UNITS TO CSA A165.1, TYPE H/15/A/M WITH A MINIMUM COMPRESSIVE STRENGTH OF 15 MPA BASED ON THE NET AREA.
3. TYPE 'S' MORTAR TO BE USED THROUGHOUT.
4. REINFORCING SHALL BE NEW HI-BOND DEFORMED BARS WITH MINIMUM Fy=400 MPa. MINIMUM LAP FOR REINFORCING TO BE 36X BAR DIA.
5. HORIZONTAL MASONRY REINFORCEMENT TO BE AS PER CONCRETE BLOCK WALL REINFORCING SCHEDULE. USE APPROVED STANDARD LADDER DESIGN, GALVANIZED CONTINUOUS REINFORCEMENT. USE DUR-O-WAL DW 100 STANDARD (3.66mm DIA. WIRES) OR APPROVED EQUAL. IT MUST BE PLACED HORIZONTALLY IN THE JOINTS AT NOT MORE THAN 400mm C/C VERTICALLY. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200mm APART, IMMEDIATELY ABOVE LINTELS AND BELOW SILLS. REINFORCEMENT IN THE SECOND BED JOINT ABOVE LINTELS AND BELOW SILLS SHALL EXTEND 600mm. BEYOND THE JAMB. ALL OTHER REINFORCEMENT SHALL BE CONTINUOUS AND SIDE RODS SHALL BE LAPPED FOR 200mm MIN.
6. REINFORCING SHALL BE PLACED IN THE CENTRE OF THE BLOCK CORES UNLESS INDICATED OTHERWISE. ALL VERTICAL BARS ARE TO HAVE MATCHING LAPPING DOWELS, 1300mm LONG, EMBEDDED 650mm INTO THE FOUNDATION WALLS.
7. GROUT SHALL BE COARSE WITH MIN. 28 DAY COMPRESSIVE STRENGTH OF 20 MPa. GROUT SLUMP TO BE 200mm TO 250mm. GROUTING SHALL BE DONE IN LOW LIFTS WITH VIBRATING OR "RODDING" GROUT TO ENSURE THAT ALL VOIDS ARE FILLED AND REINFORCING IS FULLY ENCASED.
8. ALL MASONRY UNDER CONCENTRATED LOADS SHALL HAVE VOIDS FILLED WITH 20 MPa CONCRETE FOR DEPTH AND WIDTH EQUAL TO 3 TIMES THE LENGTH OF BEARING.
9. ALL MASONRY WALLS SHALL BE PROPERLY SHORED DURING CONSTRUCTION UNTIL STRUCTURAL STEEL AND/OR SLABS ARE IN PLACE.
10. ALL MASONRY WALLS TO BE CONSTRUCTED WITH FULL MORTAR JOINTS.
11. PROVIDE VERTICAL MASONRY CONTROL JOINTS AT MAX. SPACING OF 2X WALL HEIGHT OR 6m O.C. WHICHEVER IS LESS. REFER TO DRAWINGS FOR SPECIAL EQUIREMENTS. PLACE CONTROL JOINTS AT EDGES FOR WINDOWS OR DOORS WHERE POSSIBLE OR FEASIBLE.
12. INTERSECTING MASONRY BLOCK WALLS OR PARTITIONS SHALL BE BONDED BY OVERLAPPING HALF OF THE UNITS OF ONE WALL WITH THE UNITS IN THE OTHER WALL FOR A MINIMUM DISTANCE EQUAL TO THE THICKNESS OF THE THINNER WALL.
13. HORIZONTAL AND VERTICAL LATERAL SUPPORT ANCHORS SPACING AS PER A370 "CONNECTORS FOR MASONRY" STANDARD AND/OR INFORMATION SHOWN ON DRAWINGS.
14. PROVIDE LINTELS AS SPECIFIED OVER ALL OPENINGS IN MASONRY WALL AS SHOWN OR AS REQUIRED. REFER TO DRAWINGS FOR SIZES AND LOCATIONS OF OPENINGS AND RECESSES. WHERE LINTELS ARE NOT SHOWN PROVIDE THEM IN ACCORDANCE WITH STANDARD SCHEDULE.
15. STEEL BEAMS AND LINTELS SHALL HAVE 200mm MIN. END BEARING ON MASONRY UNLESS INDICATED OTHERWISE.
16. FOR MASONRY OPENINGS NOT SHOWN ON THE DRAWINGS, PROVIDE ONE ANGLE, L 89 X 89 X 6.4 FOR EACH 100mm THICKNESS OF MASONRY, FOR OPENINGS UP TO 1200mm.
17. ALL LINTEL ASSEMBLIES IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED.
18. VERTICAL REINFORCING IN FULLY GROUTED CORE FOR WALLS SHALL BE AT THE SPACINGS DESIGNATED, AND IN ADDITION, SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS: PROVIDE ONE VERTICALLY REINFORCED CELL WITH 1-15M, FULL HEIGHT, EACH SIDE OF DOOR JAMBS, EACH SIDE OF WALL OPENINGS OR WINDOW OPENINGS, EACH SIDE OF A CORNER, EACH SIDE OF A WALL INTERSECTION, AND EACH SIDE OF A CONTROL JOINT. PROVIDE TWO VERTICALLY REINFORCED CELLS WITH 1-15M PER CELL, FULL HEIGHT, AT A WALL END. ALL 15M VERTICAL BARS ARE TO HAVE MATCHING, LAPPING, 15M DOWELS, 1300mm LONG, EMBEDDED 650mm INTO THE FOUNDATION WALLS.
19. BOND BEAM COURSES WITH VERTICAL REINFORCING INTERSECTING. SHALL CONSIST OF STANDARD UNITS WITH SAW-CUT WEBS TO ACCOMMODATE HORIZONTAL REINFORCING BARS. ALL BOND BEAMS TO HAVE 1-15M BAR MINIMUM, IN A FULLY GROUTED BOND BEAM COURSE. PROVIDE BOND BEAMS AT THE FOLLOWING LOCATIONS FOR ALL LOADBEARING WALLS: TOP OF WALL, AT ANCHORED ANGLE FOR STEEL DECK SUPPORT, BOTTOM OF WALL, AT OTHER LOCATIONS SHOWN ON THE DRAWINGS, AND AT A MINIMUM OF EVERY 2400mm VERTICALLY.
20. CONCRETE MASONRY BLOCK WALLS ARE TO BE REINFORCED AS NOTED ABOVE, AND AS FOLLOWS:

LOADBEARING EXTERIOR WALLS
(ALL WALLS TO HAVE HORIZONTAL JOINT REINFORCEMENT EVERY SECOND COURSE)

190mm BLOCK EXTERIOR WALL
15M BARS VERTICAL AT 600mm O.C. MINIMUM.

240mm BLOCK EXTERIOR WALL
15M BARS VERTICAL AT 600mm O.C. MINIMUM.

LOADBEARING EXTERIOR WALL AT GABION BASKET WALL
(ALL WALLS TO HAVE HORIZONTAL JOINT REINFORCEMENT EVERY SECOND COURSE)

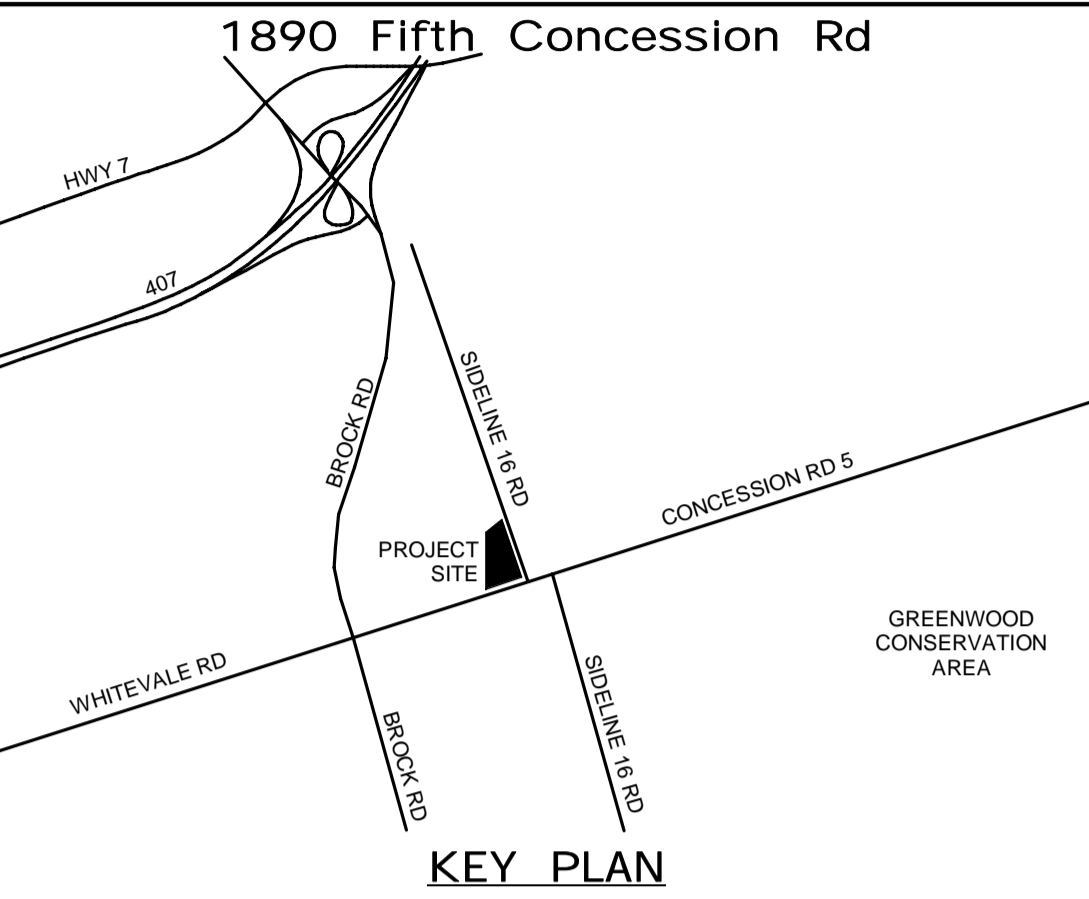
190mm BLOCK EXTERIOR WALL
15M BARS VERTICAL AT 600mm O.C. MINIMUM.
FULLY GROUT ENTIRE WALL.

NON-LOADBEARING INTERIOR PARTITION WALLS
(ALL WALLS TO HAVE HORIZONTAL JOINT REINFORCEMENT EVERY SECOND COURSE)

190mm BLOCK INTERIOR WALL
15M BARS VERTICAL AT 1200mm O.C. MINIMUM.

240mm BLOCK INTERIOR WALL
15M BARS VERTICAL AT 1000mm O.C. MINIMUM.

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SUB CONSULTANT

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| DESIGN BY: D.S. | SCALE: |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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| 3 | 03/22/22 | ISSUED FOR CONSTRUCTION | |
| 2 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| 1 | 09/22/21 | ISSUED FOR TENDER | |
| NO | DATE | NAME | REVISIONS |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

| GENERAL NOTES AND LOADING - SHEET 1 OF 2 | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 100 | SHEET NO. |

STRUCTURAL STEEL

1. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE CONSULTANT ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE WORK BEFORE PROCEEDING WITH THE WORK.
2. ALL SHOP CONNECTIONS SHALL BE WELDED. ALL FIELD CONNECTIONS SHALL BE WELDED OR BOLTED USING HIGH TENSILE BOLTS. BEARING TYPE CONNECTIONS SHALL BE C.I.S.C. DOUBLE ANGLE BEAM CONNECTIONS OR SHEAR PLATES USING A325 BOLTS AND E49XX FILLET WELDS. MINIMUM SIZE OF BOLTS – 20mm DIAMETER. THEY SHALL BE CAPABLE OF SUPPORTING 50% OF THE TOTAL UNIFORM LOAD CAPACITY CALCULATED USING UNIFORM LOAD CONSTANTS FOR BEAMS LATERALLY SUPPORTED EXCEPT WHERE SPECIFICALLY NOTED OR DETAILED.
3. ALL HSS SECTIONS MUST HAVE OPEN ENDS CAPPED OR WELDED SOLID ALL AROUND AT CONNECTION POINT.
4. ALL COLUMN ENDS SHALL BE SAW-CUT AND WELDED TO BASE PLATES.
5. ALL COLUMNS TO HAVE CLOSURE PLATES, TEES ANGLES OR OUTRIGGERS AT ROOF AND FLOOR LEVELS TO SUPPORT STEEL DECK WHERE REQUIRED AND TO PREVENT CONCRETE LOSS. (ELEVATED FLOORS)
6. PROVIDE AND TAKE RESPONSIBILITY FOR ALL TEMPORARY BRACING AND SHORING REQUIRED. DO NOT REMOVE THEM UNTIL COMPLETION OF CONSTRUCTION.
7. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES, UNLESS NOTED, OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOAD INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER TOP OF COLUMNS. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 10mm OR FLANGE THICKNESS OF COLUMNS ABOVE OR BELOW, WHICHEVER IS GREATER. MINIMUM SIZE OF WELD SHALL BE 5mm DOUBLE FILLET WELD, OR SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE STIFFENER, WHICH EVER IS GREATER.
8. FOR LOCATIONS OF DOOR FRAMES, WALL OPENINGS, AND ROOF OPENINGS, ETC. AND RELATED DETAILS, SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
9. PERIMETER ROOF ANGLES SHALL BE CONTINUOUS AND BUT WELDED TOGETHER AT JOINTS.
10. GIRTS SHALL HAVE END CONNECTIONS CAPABLE OF SUPPORTING 50% OF THE MEMBERS CAPACITY ABOUT THE MAJOR AXIS, CALCULATED IN THE SAME MANNER AS FOR BEAMS. EACH WEB OF BUILT-UP MEMBERS SHALL HAVE THEIR ENDS CONNECTED AS SPECIFIED ABOVE.
11. THE MINIMUM END CONNECTION OF ANY MEMBER SHALL BE MADE WITH TWO(2) A325 BOLTS OR EQUIVALENT WELD.
12. GUSSET PLATES FOR DIAGONAL BRACING SHALL BE CONNECTED TO ALL INTERSECTING MEMBERS UNLESS NOTE OTHERWISE, AND BE IN LINE WITH CENTERLINE OF MEMBERS.
13. IN ADDITION TO STRENGTH WELDS, STRUCTURAL STEEL EXPOSED TO WEATHER SHALL HAVE CONTINUOUS SEAL WELDS AT ALL JOINTS (INCLUDING ALL CONNECTION MATERIAL).
14. ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CSA G40.21M GRADE 300W, UNLESS NOTED.
15. ALL STRUCTURAL STEEL `W` SHAPES SHALL CONFORM TO CSA G40.21M GRADE 350W.
16. ALL HOLLOW STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA G40.21M GRADE 350W - CLASS H.
17. FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CAN/CSA S16-01.
18. ALL WELDING SHALL CONFORM TO CSA S16-01 AND THE LATEST VERSION OF W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER THE LATEST VERSION OF CSA W47.
19. WELDING ELECTRODES SHALL BE E49XX.
20. SURFACES TO BE WELDED SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER INCLUDING PAINT FILM.
21. ALL JOINTS SHALL BE WELDED USING E49XX ELECTRODES OR BEARING TYPE CONNECTIONS USING M20 ASTM A325M HIGH STRENGTH BOLTS, UNLESS NOTED.
22. PROVIDE FOR MASONRY CONVENTIONAL ANCHORS AT MAX. 4X WALL THICKNESS O.C. FOR ALL COLUMNS NEXT TO MASONRY WALLS, UNLESS NOTED. PROVIDE FOR MASONRY CONVENTIONAL ANCHORS FOR ALL STEEL BEAMS NEXT TO NEW CONVENTIONAL MASONRY WALLS AT MAX. 10X WALL THICKNESS O.C. UNLESS NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
23. SUBMIT SHOP DRAWINGS TO THE CONSULTANT FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.
24. ALL EXTERIOR (PERMANENTLY EXPOSED) STRUCTURAL STEEL MUST BE HOT DIP GALVANIZED TO CONFORM TO CSA G164 AND TO HAVE A MINIMUM ZINC COATING OF 600 g/m2.
25. FOR PRIME PAINTING AND/OR PAINTING OF THE STRUCTURAL, STEEL REFER TO THE SPECIFICATIONS.

OPEN WEB STEEL JOISTS AND LONG SPAN JOISTS FOR THE VEHICLE GARAGE ROOF

1. ----DENOTES (IF SHOWN) SUGGESTED TOP AND BOTTOM CHORD BRIDGING LOCATIONS; RECOMMENDED MINIMUM LOCATIONS ONLY. FINAL DESIGN AND LOCATIONS BY OWSJ DESIGNER.
2. X DENOTES (IF SHOWN) SUGGESTED X-BRIDGING LOCATIONS; RECOMMENDED MINIMUM LOCATIONS ONLY. FINAL DESIGN AND LOCATIONS BY OWSJ DESIGNER.
3. MANUFACTURED OPEN WEB STEEL JOISTS SHALL CONFORM TO THE LATEST EDITIONS OF CAN/CSA-S16-01 AND CISC "RECOMMENDED PRACTISE".
4. REFER TO THE DRAWINGS FOR ALL LOADINGS AND DEFLECTION REQUIREMENTS.
5. PROVIDE DETAILED JOIST FABRICATION SHOP DRAWINGS AND CALCULATIONS. STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO. THE JOIST MANUFACTURER SHALL INDICATE DETAILS, MATERIALS, UNIFORM AND CONCENTRATED DESIGN LOADS, BRIDGING, AND ACCESSORIES.
6. DESIGN JOIST FOR THE LOADINGS SHOWN ON THE DRAWINGS, PLUS AN ADDITIONAL LIVE LOAD POINT LOAD APPLIED ANYWHERE ALONG THE BOTTOM CHORD AS FOLLOWS:
 - 2 kN FOR LONG SPAN JOISTS FOR THE VEHICLE GARAGE ROOF
 - 1 kN FOR ALL OTHER OWSJ'S
7. CONNECT JOISTS TO SUPPORTING MEMBERS BY WELDING ONLY. BEARING ENDS OF JOISTS SHALL HAVE THE FOLLOWING JOIST SHOE DEPTHS:
 - 125mm DEEP JOIST SHOE FOR LONG SPAN JOISTS FOR THE VEHICLE GARAGE ROOF
 - 100mm DEEP JOIST SHOE FOR ALL OTHER OWSJ'S
8. JOISTS TO BE WELDED CONSTRUCTION. NO HOLES ARE TO BE DRILLED FOR HANGERS.
9. EXTEND THE BOTTOM CHORD AT THE END OF JOISTS, WHEREVER THE JOISTS LINE UP WITH CENTER LINE OF A COLUMN, AND AT OTHER LOCATIONS INDICATED ON THE PLANS.
10. ALL JOISTS SHALL HAVE HOT ROLLED DOUBLE ANGLE TOP AND BOTTOM CHORDS.
11. EXTEND JOIST TOP CHORDS TO SUPPORT DECK AND SIDING WHERE REQUIRED.
12. CAMBER JOISTS FOR 0.002 OF THE SPAN (L/500).
13. ATTACHMENTS FOR MECHANICAL, ELECTRICAL, AND OTHER SERVICES SHALL BE MADE BY USING APPROVED CLAMPING DEVICES OR U-BOLT TYPE CONNECTIONS TO THE TOP CHORD ONLY. CONNECTIONS TO THE BOTTOM CHORD TO BE PERMITTED ONLY AT PANEL POINTS. OTHER CONNECTION POINTS ONLY IF APPROVED BY THE CONSULTANT.

METAL DECK

1. ALL METAL DECK TO BE NEW AND SHALL BE DESIGNED, FABRICATED AND INSTALLED TO CONFORM TO THE REQUIREMENTS OF CAN/CSA-S136 COLD FORMED STEEL STRUCTURAL MEMBERS AND THE REQUIREMENTS OF THE CANADIAN SHEET STEEL BUILDING INSTITUTE.
2. ALL ROOF AND FLOOR DECK INFORMATION IS SHOWN ON FRAMING PLANS AND DETAIL DRAWINGS.
3. SPAN DECK UNITS OVER THREE OR MORE SUPPORTS FOR INCREASED RIGIDITY.
4. PLACE DECK IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS. END LAPS SHALL ALWAYS OCCUR OVER SUPPORTS. SIDE LAPS SHALL BE ON HALF CORRUGATION. MINIMUM ROOF DECK END LAP IS 50mm FOR ATTACHMENT.
5. FIELD CUTTING OF DECK UNITS SHALL BE DONE IN WORKMANLIKE MANNER. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS, ETC. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 200mm SQUARE OR IN DIAMETER. ROOF OPENING LARGER THE 450mm SHALL BE SUPPORTED BY STEEL FRAMING.
6. PIPING, DUCTWORK, SUSPENDED EQUIPMENT AND ANY SIMILAR INSTALLATION SHALL NOT BE SUPPORTED OR FASTENED DIRECTLY TO THE METAL DECK.
7. ROOF DECK: DESIGNED AS A DIAPHRAGM FOR THE LATERAL LOAD RESISTING SYSTEM. ROOF DECK SHALL BE GALVANIZED CORRESPONDING TO Z275, AND MINIMUM 3 SPANS CONTINUOUS. WELD DECK TO SUPPORTING STEEL WITH 20mm DIA. PLUG WELDS AT 300mm O/C MAXIMUM, SIDES BUTTON PUNCHES AT 600mm O/C MAXIMUM, MARGINAL WELDS AT 900mm MAXIMUM, OR EQUIVALENT ENGINEER APPROVED MECHANICAL FASTENING SYSTEM.
 - ROOF DECK SHALL BE 38mm (1.5") X 0.91mm (0.036"),
 - MINIMUM 3 SPANS CONTINUOUS.
8. SUBMIT DETAILED SHOP DRAWINGS INDICATING DECKING LAYOUT PLANS, TYPE OF DECK, GAUGES, SHEET LOCATION AND SIZES, CUTTING WORK, OPENING LOCATIONS, BEARING CONDITIONS, METHOD OF ATTACHMENT AND SPACING OF FASTENERS, COVER AND CLOSURE PLATES.

ANCHOR TYPES

1. ANCHOR BOLTS FOR THE COLUMN BASEPLATES SHALL CONFORM TO ASTM A307.
2. SET-IN-PLACE ANCHOR TYPES:

ANCHORS SHALL BE HILTI ANCHOR SYSTEM INSTALLED IN STRICT ACCORDANCE WITH THE HILTI SPECIFICATIONS, FOR THE LOAD INDICATED, OR ENGINEER APPROVED EQUAL.

ANCHOR TYPE 1: (TO CONCRETE)
HILTI KWIK BOLT 3 EXPANSION ANCHOR SYSTEM, USING 16mm DIAMETER ANCHORS WITH A 80mm EMBEDMENT, FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 35 kN AND TENSION LOAD OF 15 kN PER ANCHOR.

ANCHOR TYPE 2: (TO CONCRETE)
HILTI HIT-HY 200 ADHESIVE ANCHOR SYSTEM, USING 19mm DIAMETER HAS-E RODS WITH A 170mm EMBEDMENT, FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 35 kN AND TENSION LOAD OF 40 kN PER ANCHOR.

ANCHOR TYPE 3: (TO HOLLOW BLOCK)
HILTI HIT-HY70 ADHESIVE ANCHOR SYSTEM, USING 13mm DIAMETER THREADED RODS, BASED ON A HIT SHORT 51mm EMBEDMENT INTO THE CENTRE OF THE BLOCK FACE SHELL, FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 3.0 kN PER ANCHOR.

ANCHOR TYPE 4: (TO FULLY GROUTED BLOCK)
HILTI HIT HY 150/HIT-ICE INJECTION ADHESIVE ANCHOR SYSTEM, USING 13mm DIAMETER HAS-E THREADED ROD ANCHOR, BASED ON A 108mm EMBEDMENT INTO THE FULLY GROUTED BLOCK, FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 10 kN AND TENSION LOAD OF 8 kN PER ANCHOR.

ANCHOR TYPE 5: (TO FULLY GROUTED BLOCK)
HILTI HIT HY 150/HIT-ICE INJECTION ADHESIVE ANCHOR SYSTEM, USING 19mm DIAMETER HAS-E THREADED ROD ANCHOR, BASED ON AN 168mm EMBEDMENT INTO THE FULLY GROUTED MASONRY BLOCK, FOR AN ALLOWABLE (UNFACTORED) SHEAR LOAD OF 24 kN AND TENSION LOAD OF 16 kN PER ANCHOR.

DESIGN LOADS

1. ENVIRONMENTAL LOADS FOR PICKERING, ONTARIO:
2. BUILDING IMPORTANCE CATEGORY: POST-DISASTER.
- LIVE LOAD DUE TO SNOW (1/50):

Is = 1.25 FOR ULTIMATE LIMIT STATES (ULS)
Is = 0.90 FOR SERVICEABILITY LIMIT STATES (SLS)
Ss = 1.0 kPa, Sr = 0.4 kPa, NOMINAL ROOF SNOW; S = 1.20 kPa

SNOW ACCUMULATION TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 (LATEST EDITION), AND THE NATIONAL BUILDING CODE 2015 STRUCTURAL COMMENTARIES (PART 4).
3. ONE DAY RAIN (1/50): 92mm
4. LIVE LOAD DUE TO WIND:

lw= 1.25 FOR ULTIMATE LIMIT STATES (ULS)
lw= 0.75 FOR SERVICEABILITY LIMIT STATES (SLS)
q(1/10) = 0.37 kPa, q(1/50) = 0.48 kPa, INTERNAL PRESSURE CATEGORY 2.

WIND PRESSURES ARE TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 (LATEST EDITION), AND PRESSURE COEFFICIENTS FROM THE NATIONAL BUILDING CODE 2015 STRUCTURAL COMMENTARIES (PART 4).
5. LIVE LOAD DUE TO SEISMIC:

le = 1.5 FOR ULTIMATE LIMIT STATES (ULS)
Sa(0.2) = 0.219, Sa(0.5) = 0.117, Sa(1.0) = 0.060,
Sa(2.0) = 0.029, Sa(5.0) = 0.007, Sp(2.0) = 0.0028, PGA = 0.140, PGV = 0.094

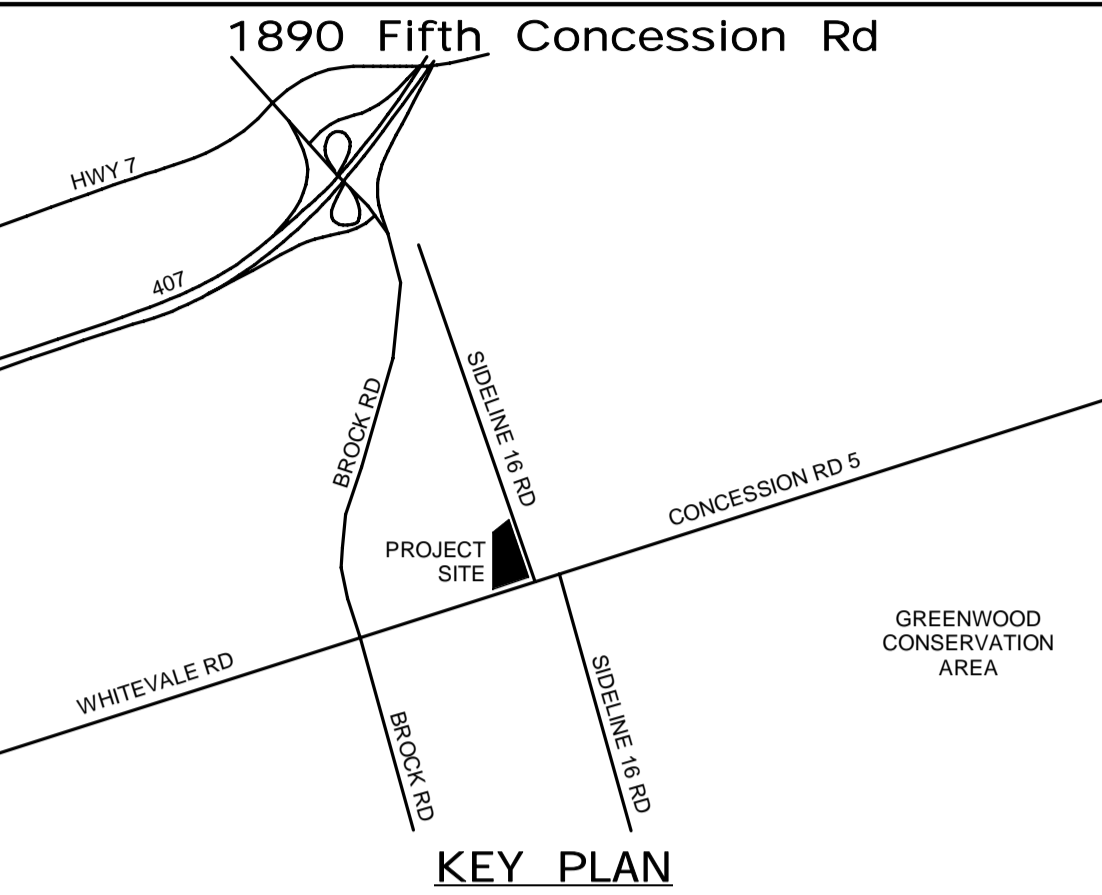
SOIL SITE CLASS 'C'
Fs = 1.00
leFsSa(0.2) = 0.329, leFsSa(2.0) = 0.044

SEISMIC FORCE MODIFICATION FACTORS:
CONVENTIONAL CONSTRUCTION OF
STEEL MOMENT-RESISTING FRAMES; Rd = 1.5, Ro = 1.3
STEEL BRACED FRAMES; Rd = 1.5, Ro = 1.3
6. EXTERIOR WALL COMPONENTS, INCLUDING OVERHEAD DOORS, DESIGNED FOR A MINIMUM UNFACTORED NET WIND PRESSURE OF ± 1.09 kPa.
7. ROOF DEAD LOAD:

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| ROOFING ASSEMBLY | 0.86 kPa |
| STEEL DECK | 0.15 kPa |
| ROOF STEEL | 0.48 kPa |
| ELECT/MECH | 0.24 kPa |
| SOLAR PANEL ALLOWANCE | 0.48 kPa |
| TOTAL DL: | 2.21 kPa |
| MAXIMUM LL DEFLECTION OF L/360 | |

8. LIVE LOAD VEHICLE GARAGE GROUND FLOOR = 12.0 kPa
9. LIVE LOAD ALL OFFICE AREAS (UNO) = 4.8 kPa
- 10.LIVE LOAD FOR OPERATIVE WALL SYSTEM
SUPERIMPOSED LIVE LOAD = 0.75 kPa
(LOAD BASED ON SURFACE AREA OF WALL. DESIGN SUPPORTS FOR LOAD DISTRIBUTION BASED ON SYSTEM STACKING AT DESIGNATED END)
- 11.MECHANICAL ROOF TOP UNIT ERV-1:
DIMENSIONS: 4318 mm LONG X 1829 mm WIDE X 1950 mm HIGH (INCLUDING CURB).
(170" L x 72" W x 77" H)
OPERATING WEIGHT: 20.3 kN (4553 lbs)
12. VEHICAL BAY CEILING CIRCULATING FAN WEIGHT: 1 kN

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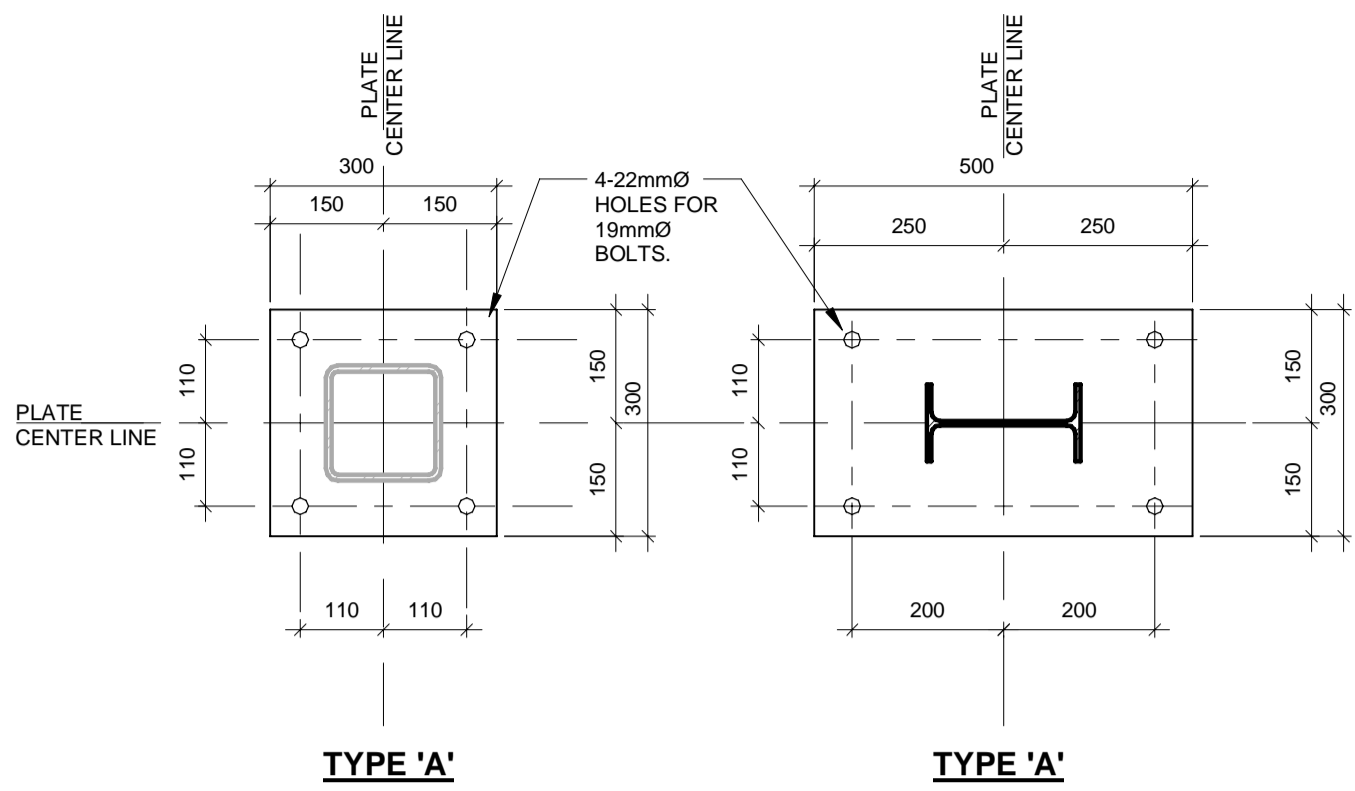
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| 4 | 03/22/22 | | ISSUED FOR CONSTRUCTION | |
| 3 | 10/18/21 | | ADDENDUM #1 | |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS | |
| 1 | 09/22/21 | | ISSUED FOR TENDER | |
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THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

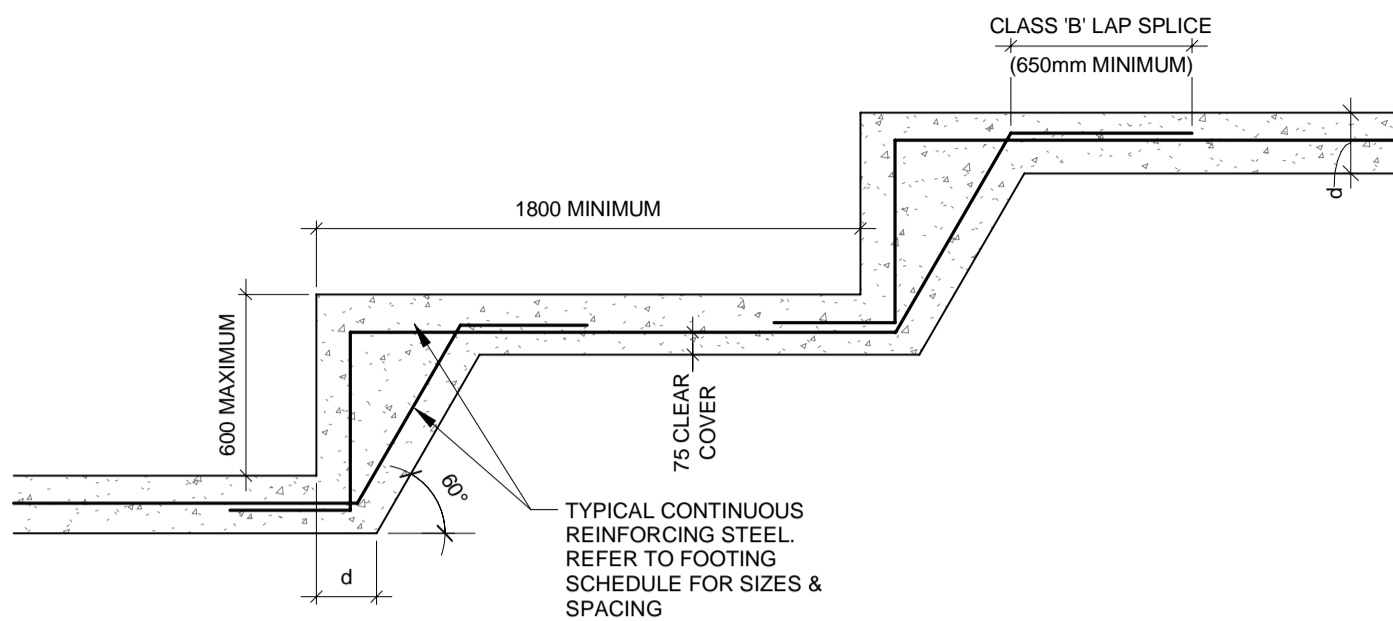
NEW PARAMEDICS STATION - SEATON

GENERAL NOTES AND LOADING - SHEET 2 OF 2

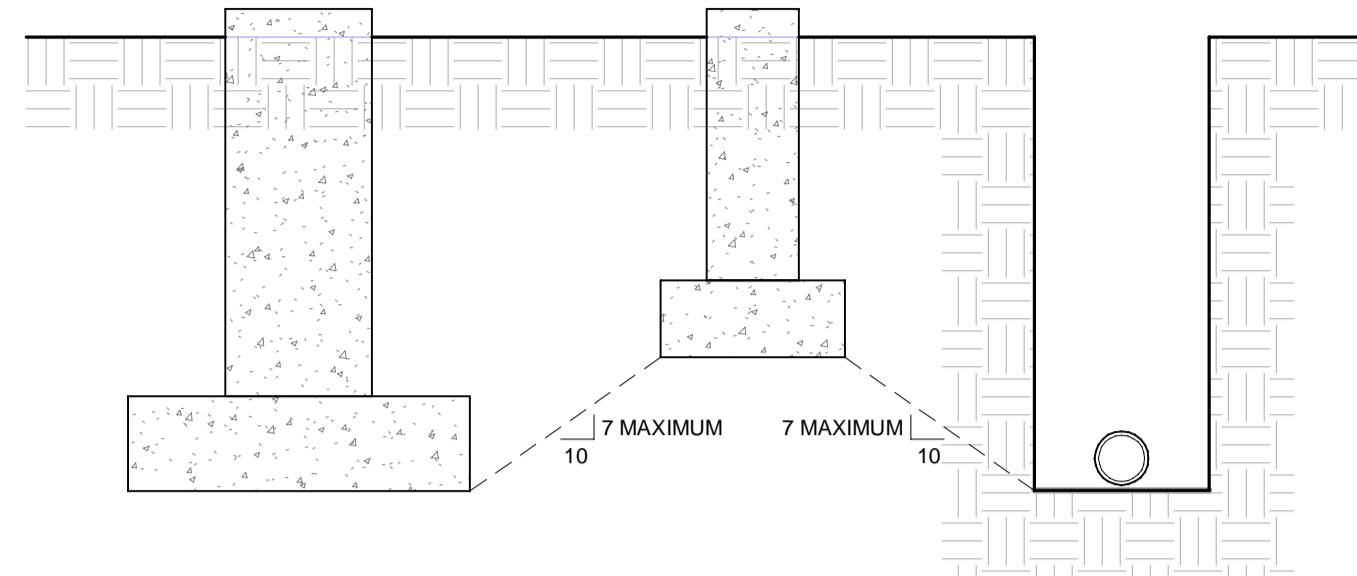
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 101 | SHEET NO. |



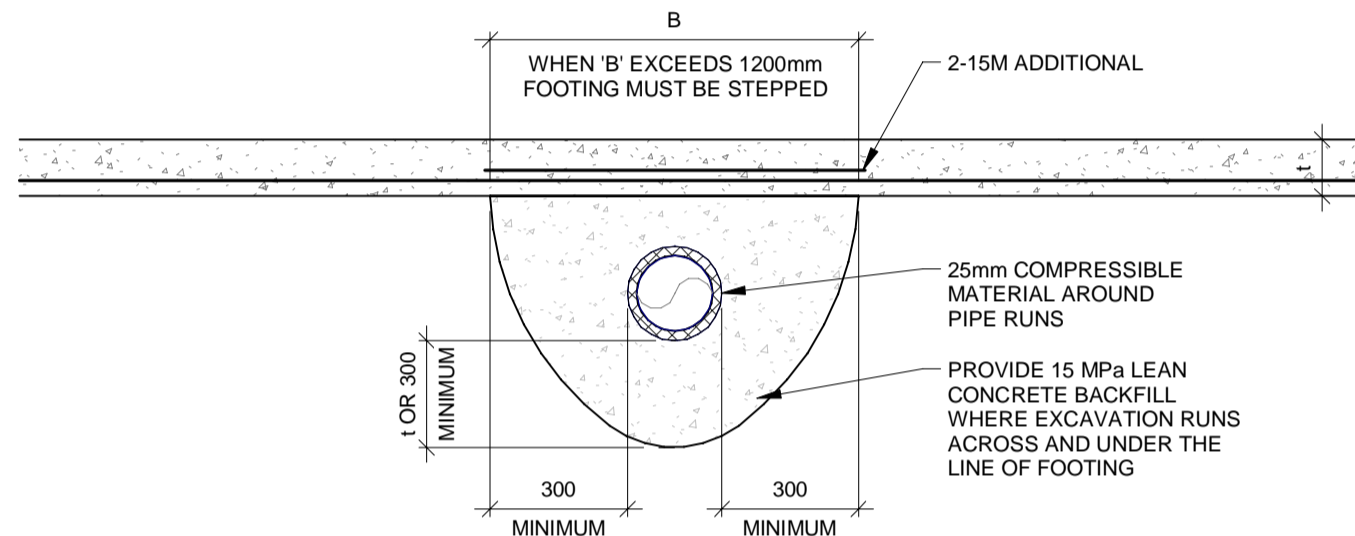
1 COLUMN BASEPLATE
S-102 1 : 10



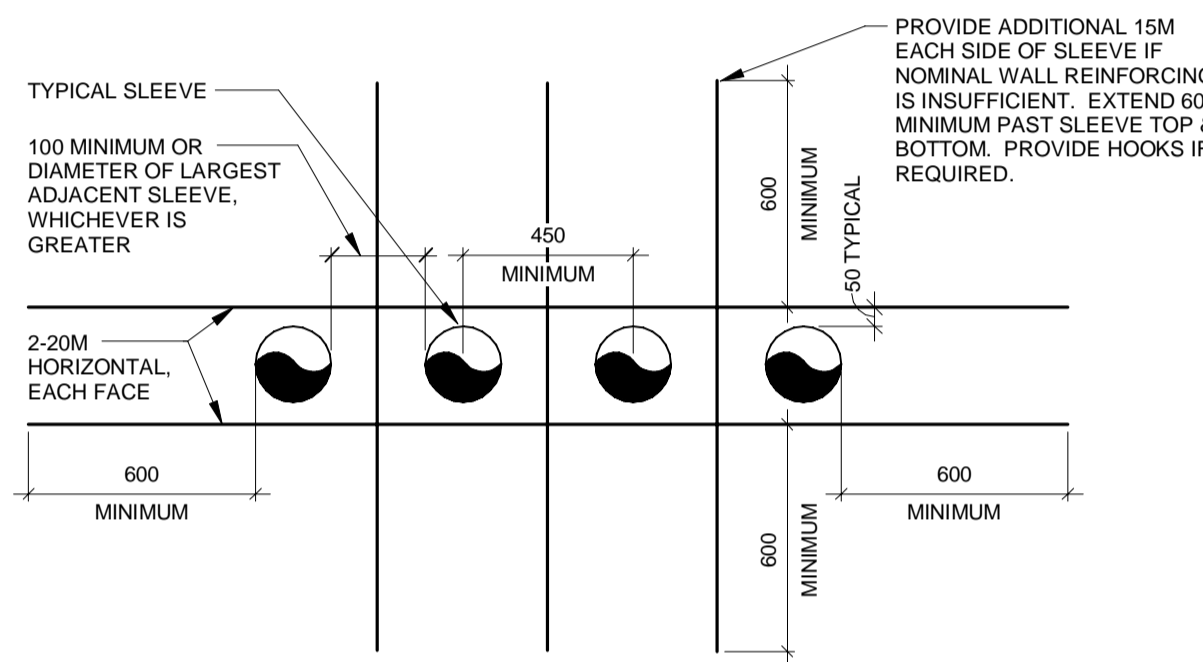
2 TYPICAL STEP FOOTING
S-102 1 : 25



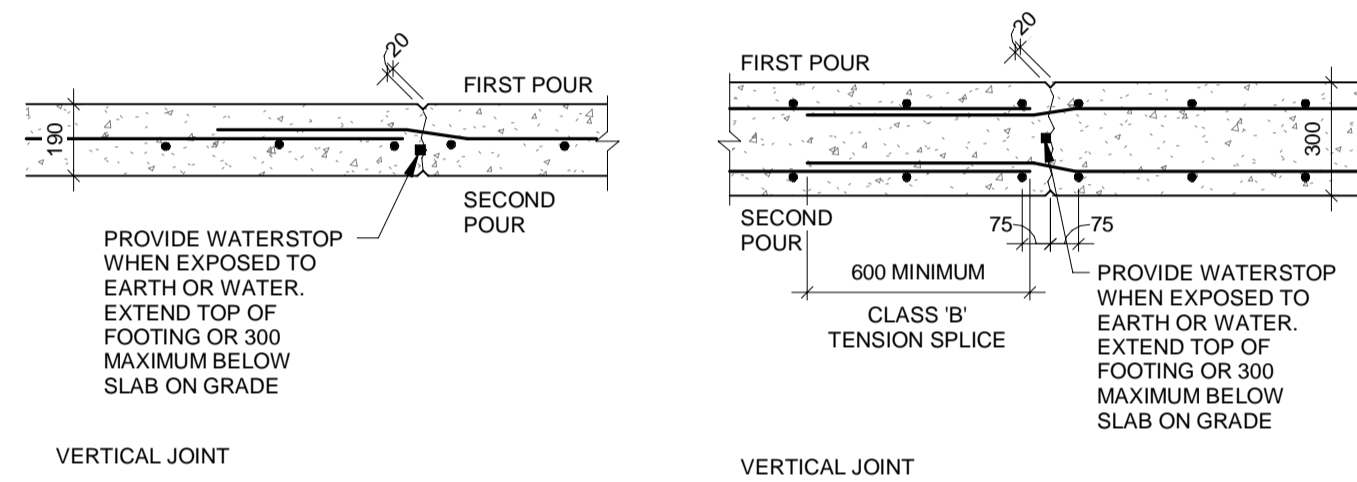
3 ADJACENT FOOTINGS AND EXCAVATIONS
S-102 1 : 25



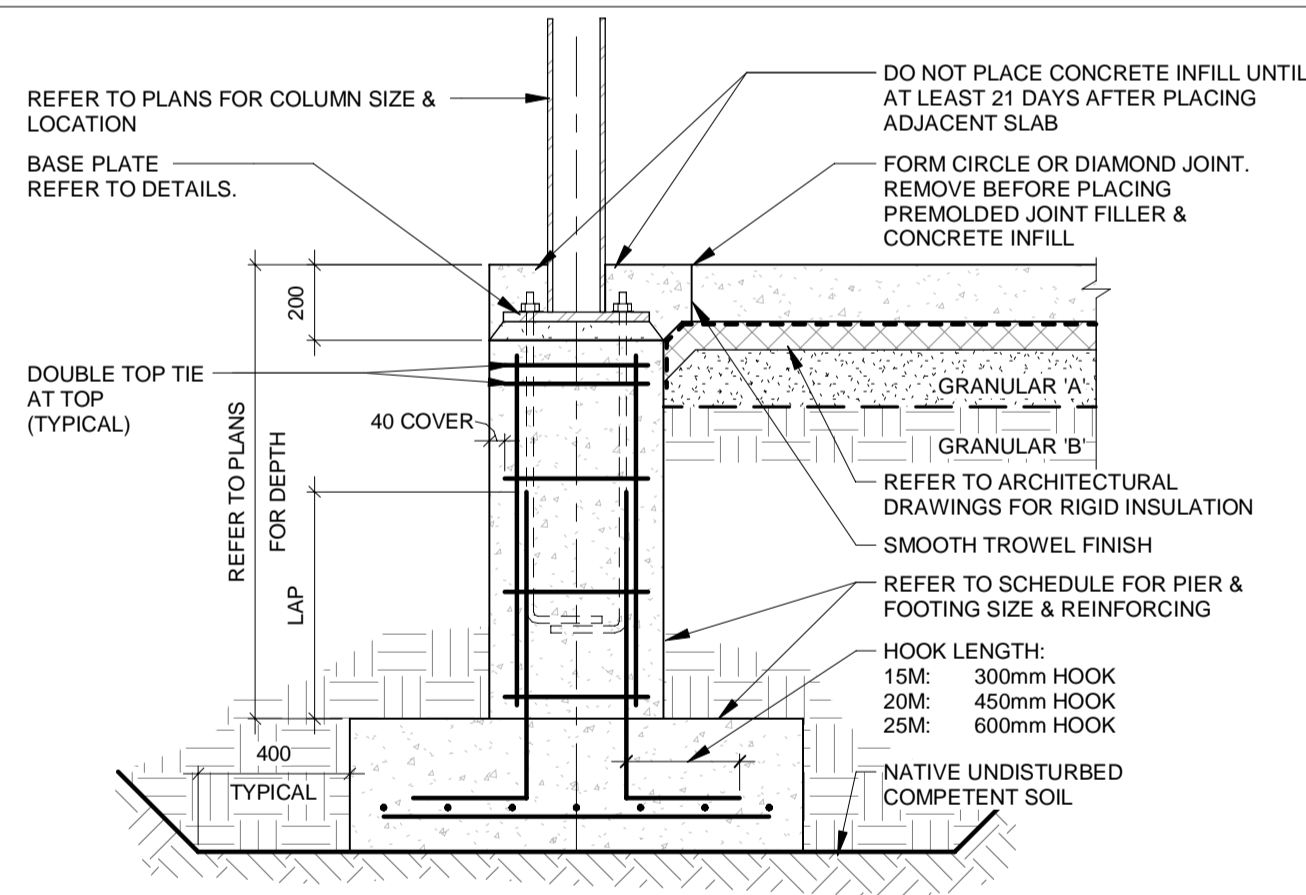
4 FOOTING OVER PIPE
S-102 1 : 20



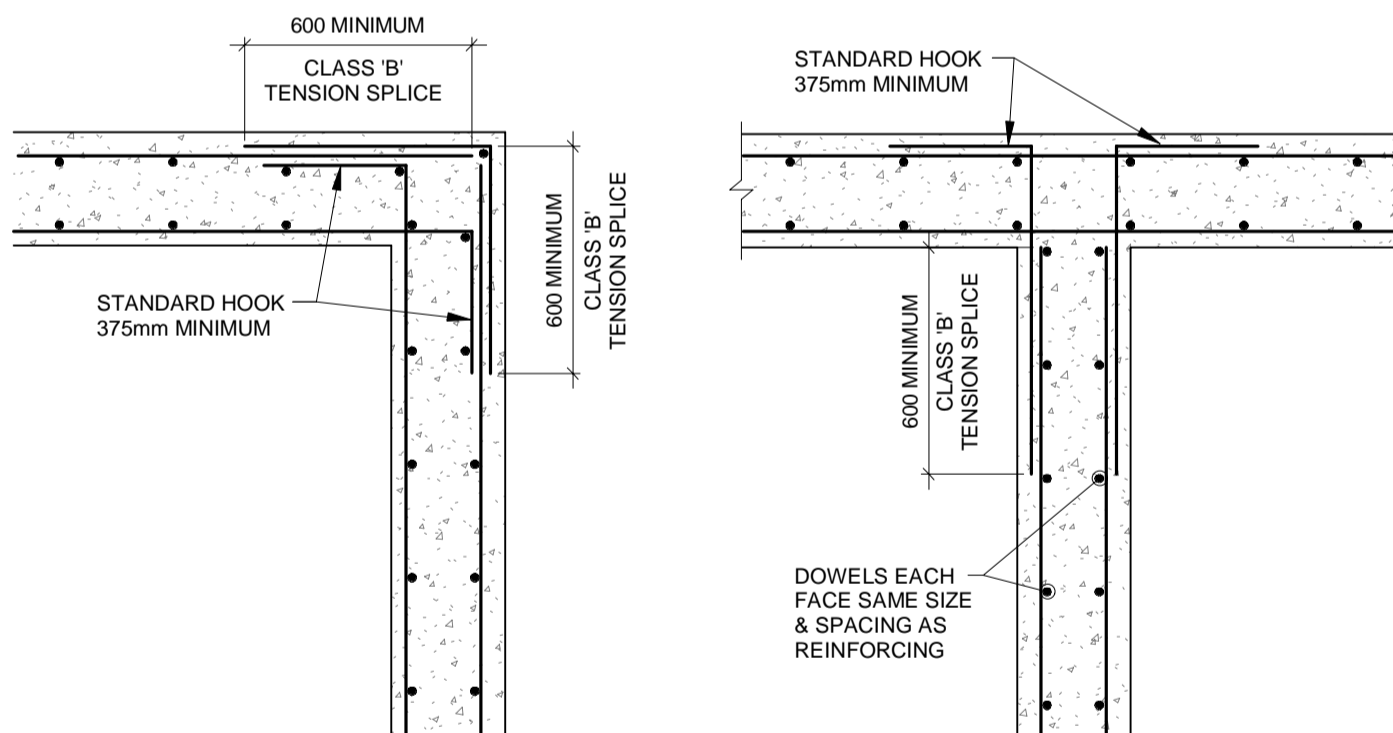
5 PIPE SLEEVES THROUGH FOUNDATION WALL
S-102 1 : 20



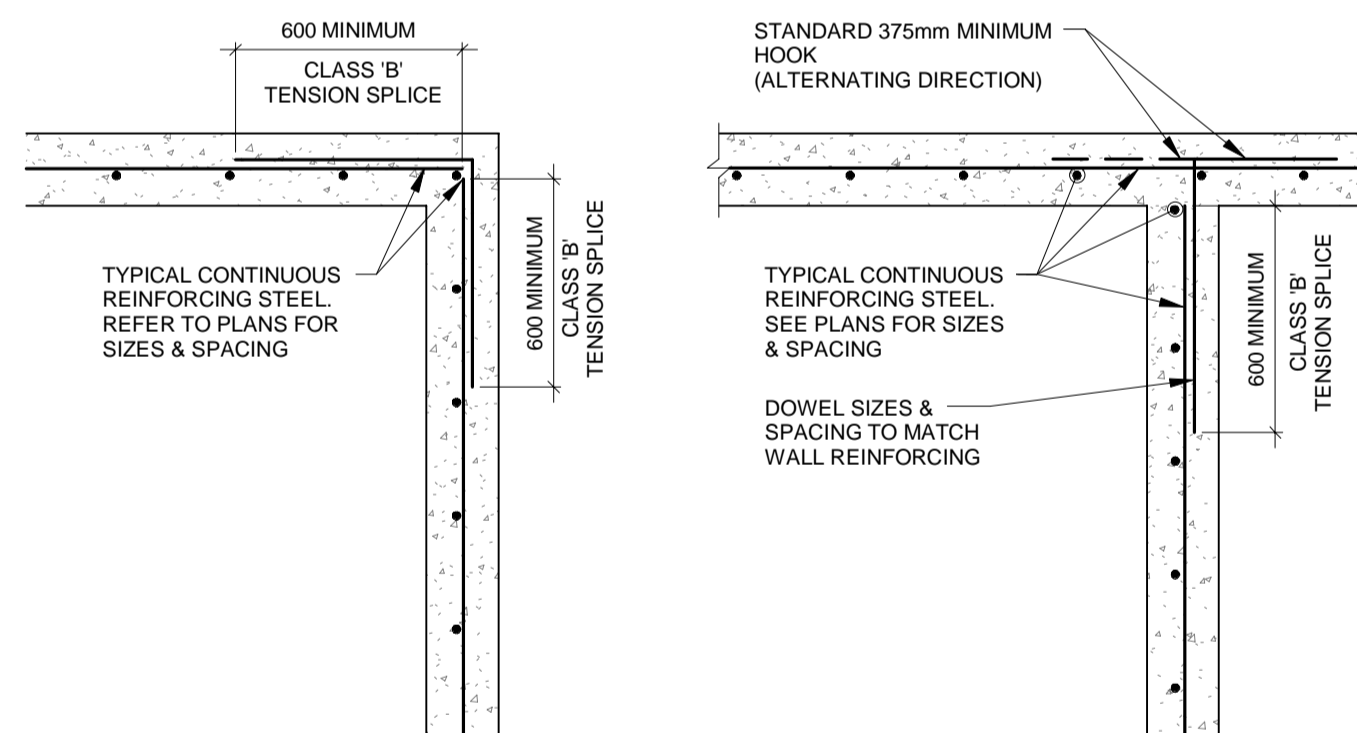
6 WALL CONSTRUCTION JOINT
S-102 1 : 20



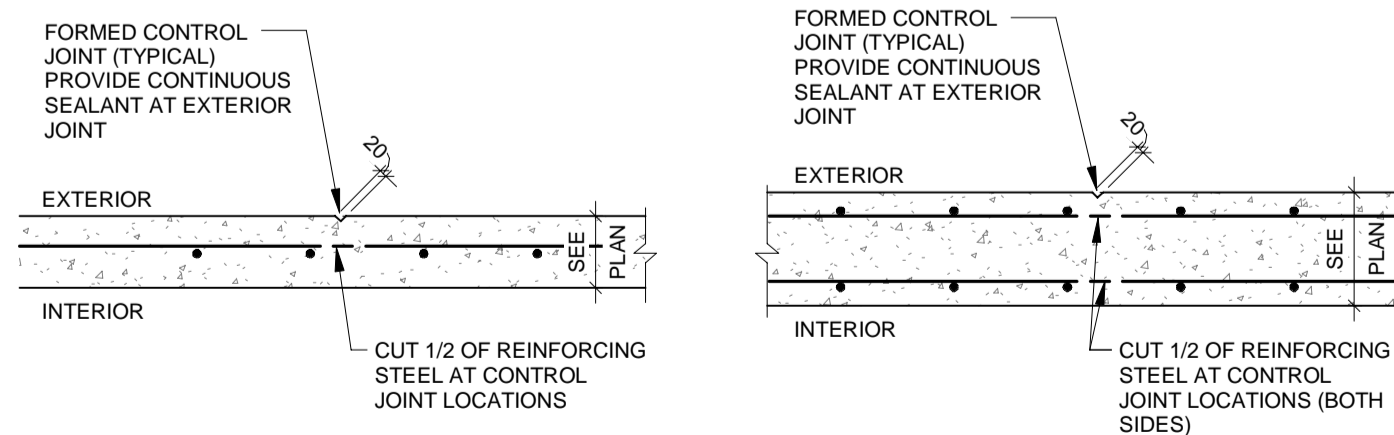
7 EXTERIOR COLUMN FOUNDATION
S-102 1 : 20



8 TWO LAYER WALL REINFORCING
S-102 1 : 20

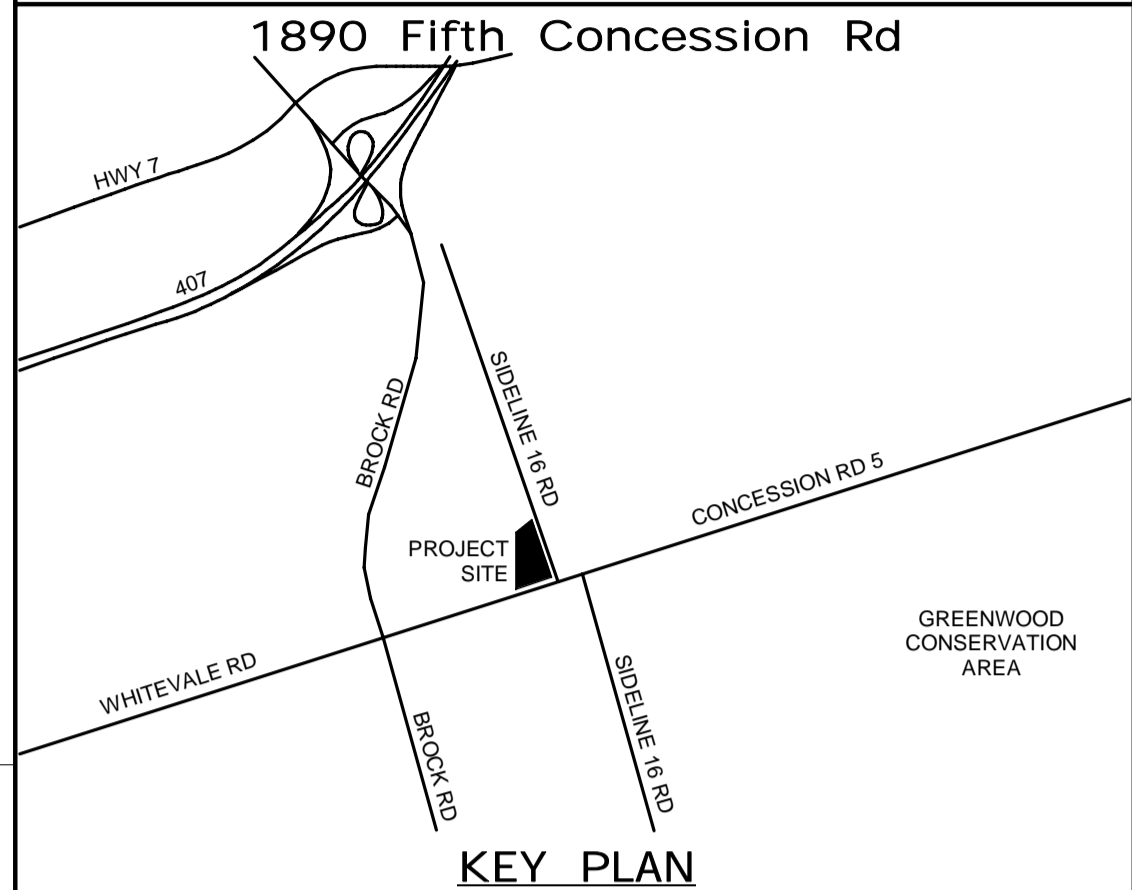


9 ONE LAYER WALL REINFORCING
S-102 1 : 20



10 WALL CONTROL JOINT
S-102 1 : 20

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K.T.D. DUNG
100055126
Mar. 22/2022
PROVINCE OF ONTARIO

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| DESIGN BY: D.S. | SCALE: As Indicated |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

| NO | DATE | NAME | REVISIONS |
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DURHAM REGION

THE REGIONAL MUNICIPALITY
OF DURHAM

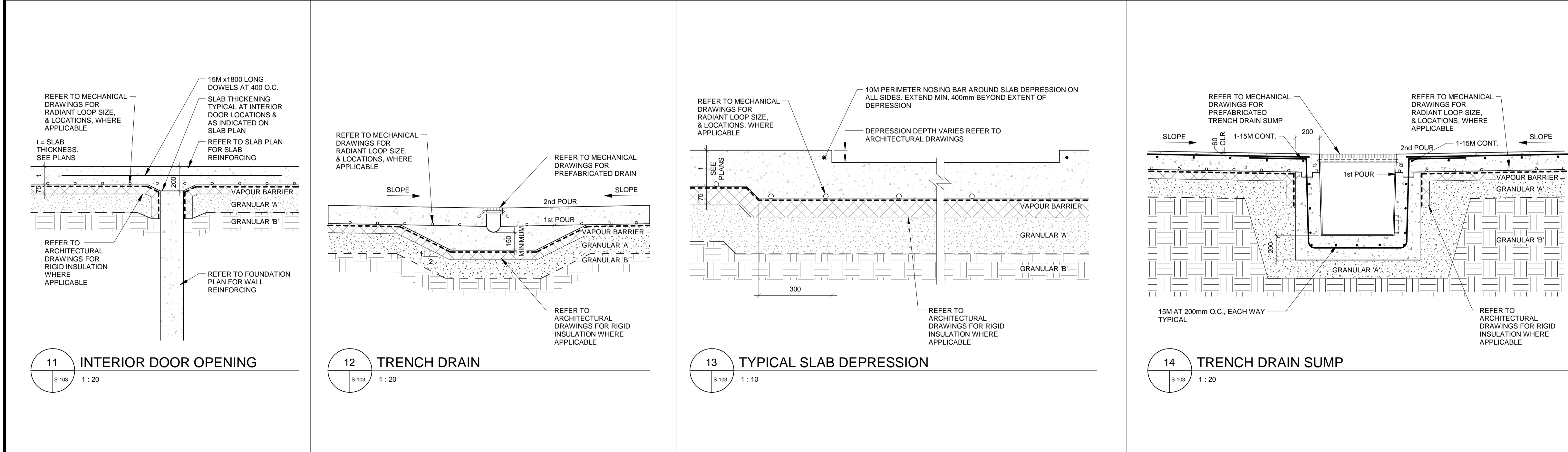
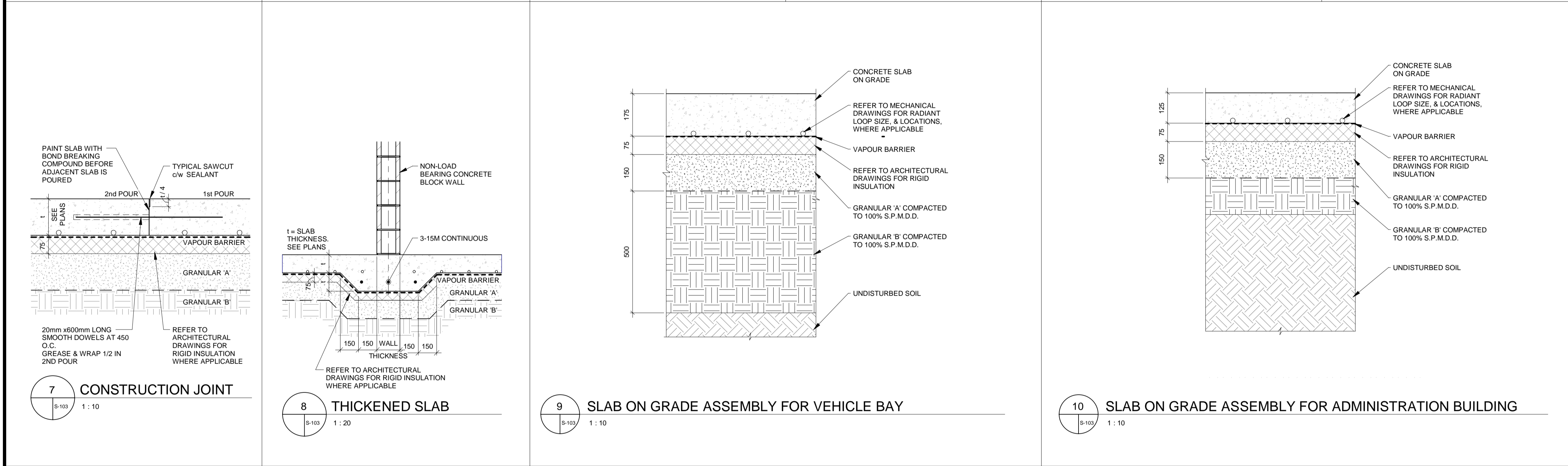
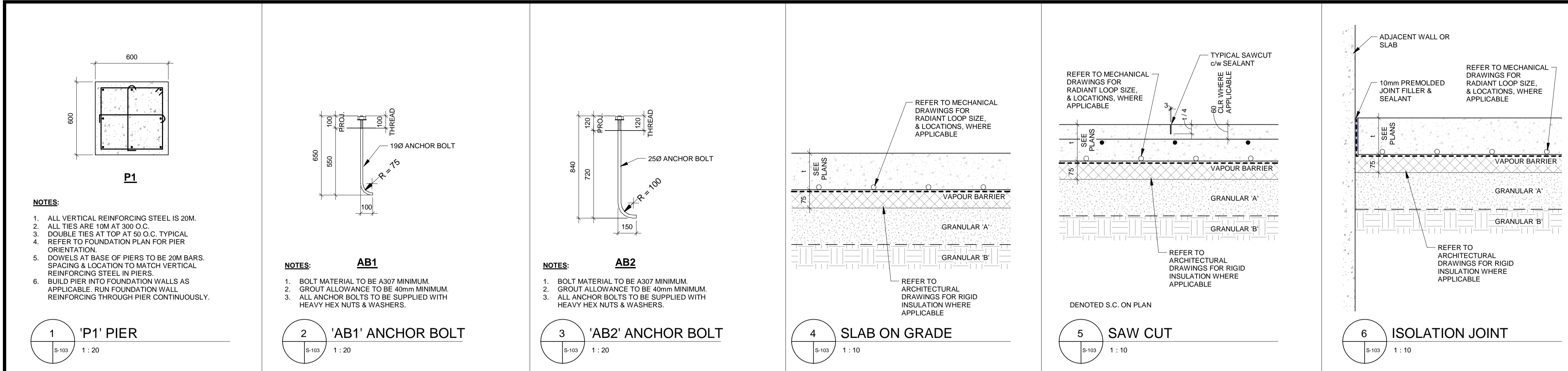
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

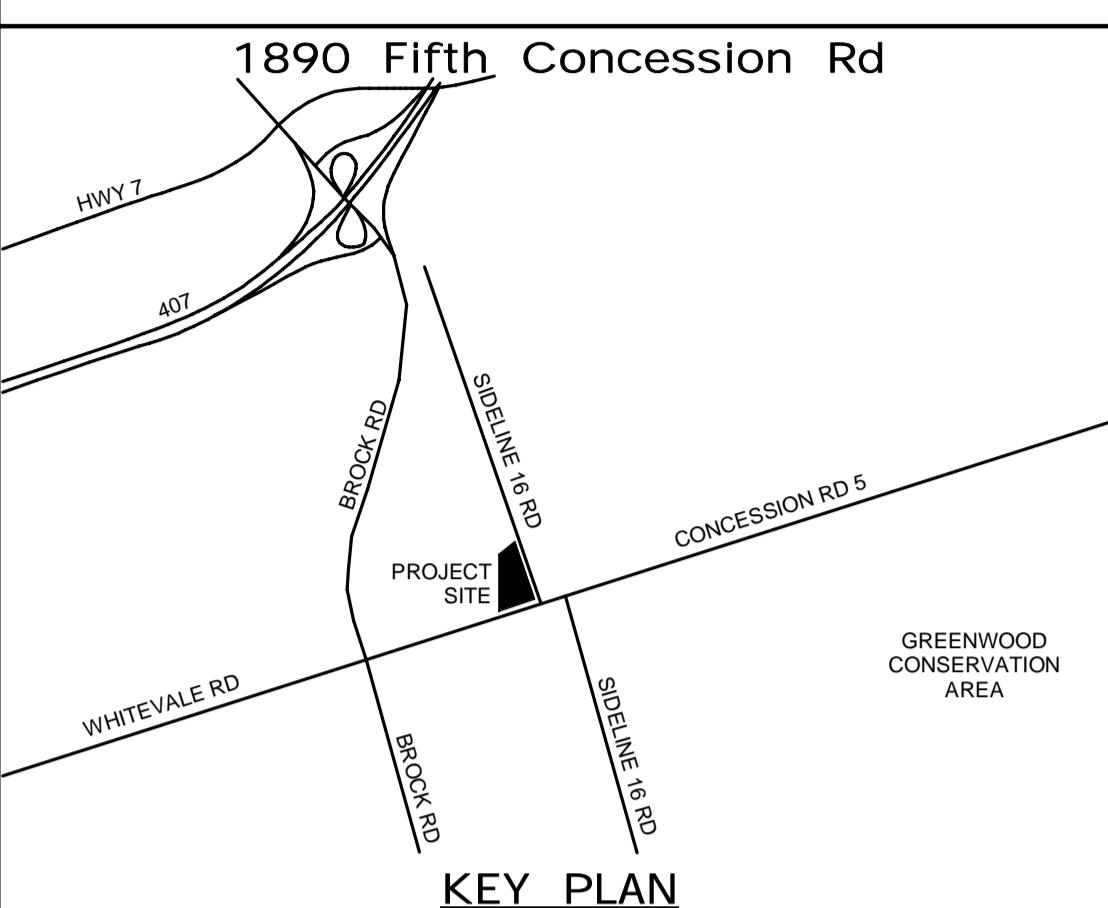
DETAILS SHEET 1 OF 7

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 102 | SHEET NO. |

BIM 300/JP-AMER (CAN) 60611569-Station RDPS-S.rvt



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| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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| NO | DATE | NAME | REVISIONS |
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| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

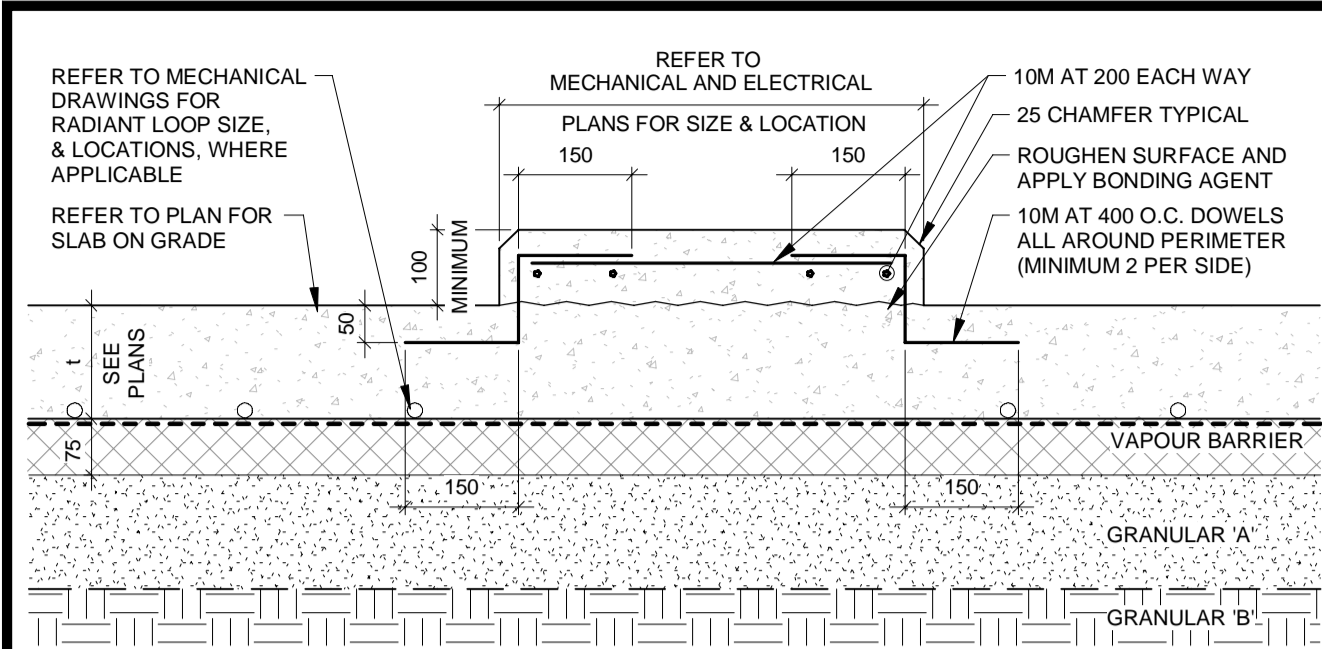
THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

DETAILS SHEET 2 OF 7

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 103 | SHEET NO. |

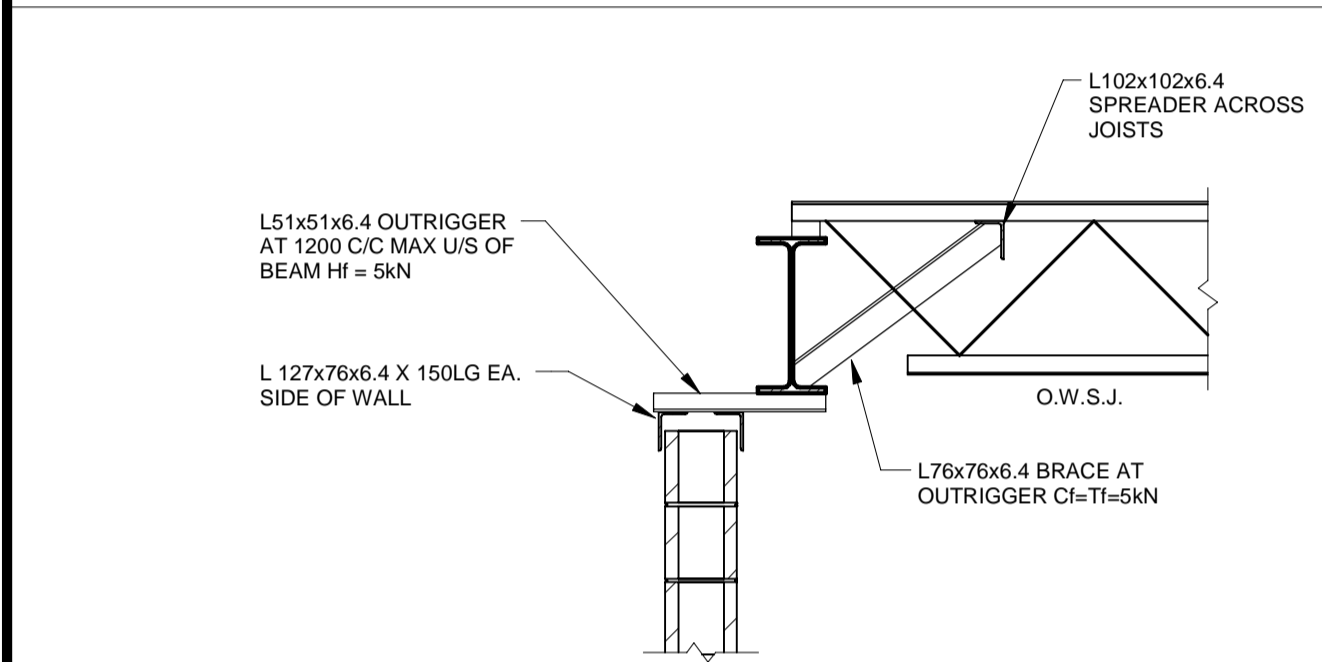
BIM 300/JPB-AMER (CAN) 60611569-Station RDFS-S.rvt



- NOTES:**
1. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL FOR PADS NOT SHOWN ON STRUCTURAL DRAWINGS. WHERE SLAB PREVIOUSLY POURED DRILL AND EPOXY GROUT USING HILTI EPOXY SYSTEM.
 2. HOUSEKEEPING PAD ON SLAB-ON-GRADE SHOWN. FOR HOUSEKEEPING PAD ON SLAB ON DECK, USE ASSOCIATED STRUCTURAL DETAILS.

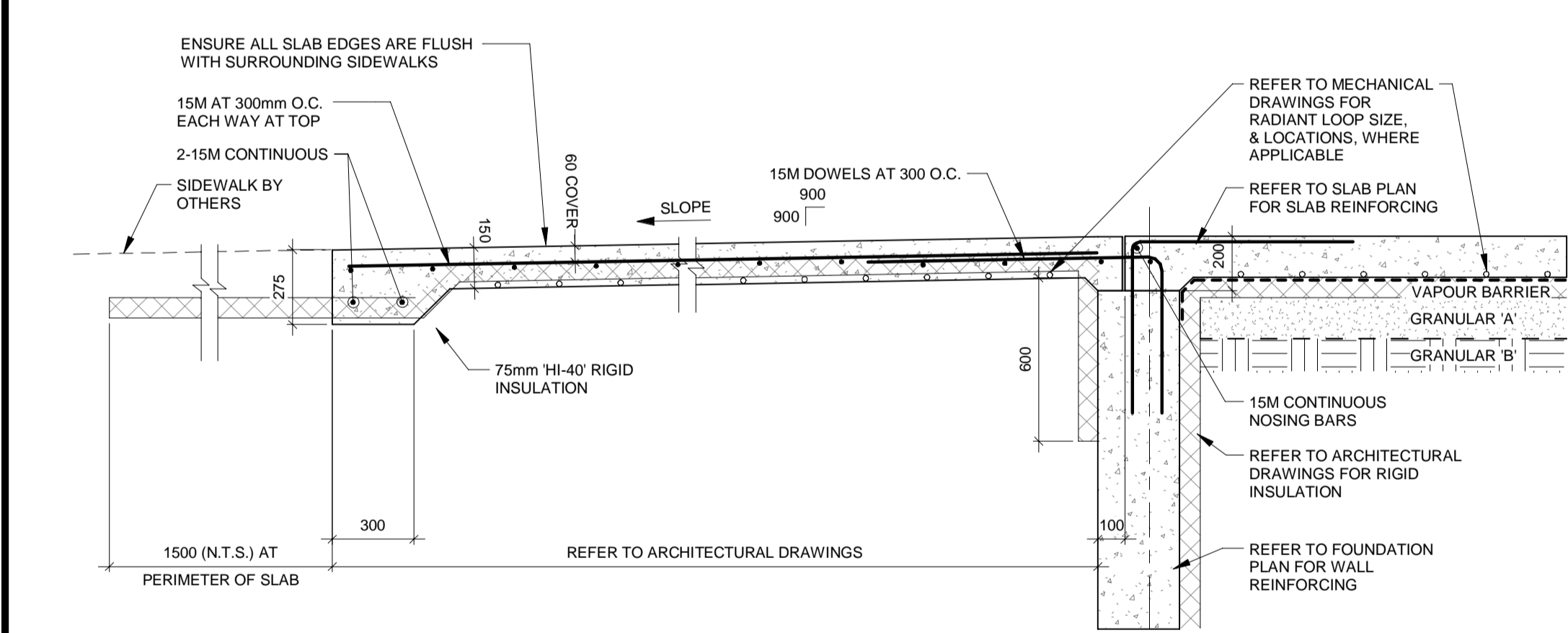
1 HOUSEKEEPING PAD

S-104 1 : 10



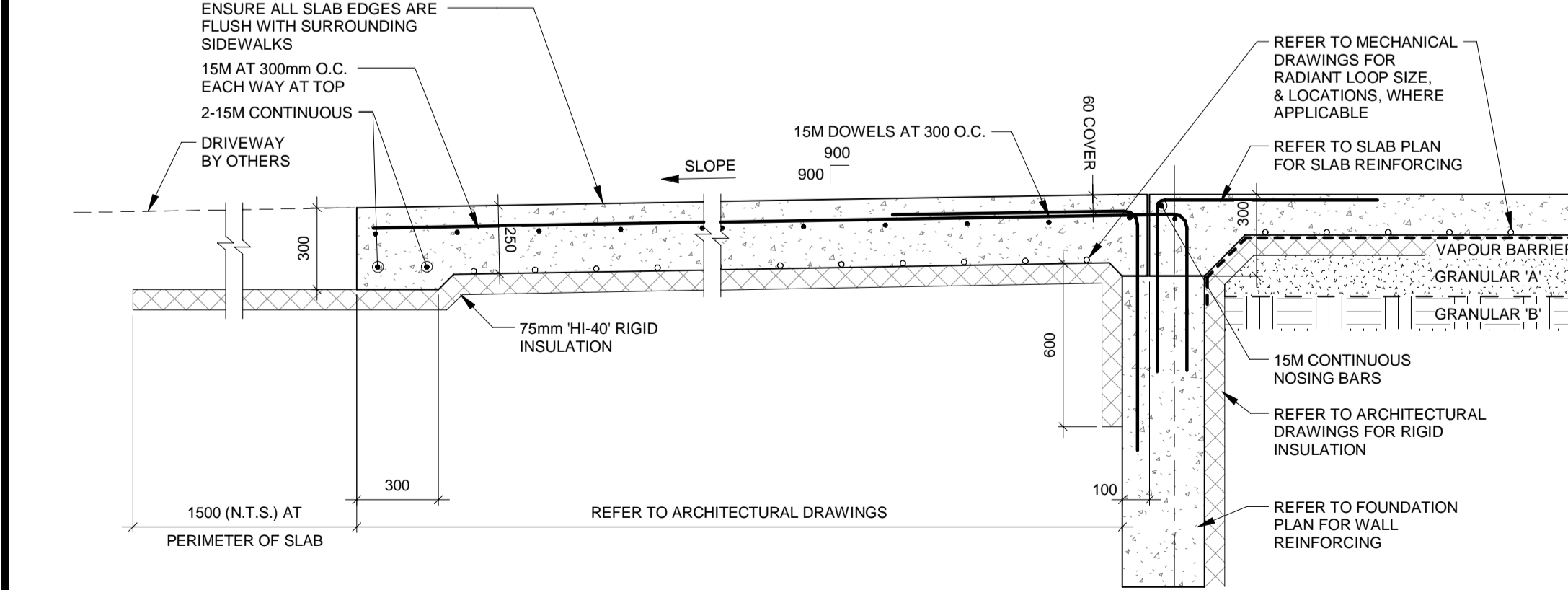
2 PARTITION WALL OFFSET FROM BEAM

S-104 1 : 20



3 EXTERIOR ENTRANCE MANDOOR SLAB

S-104 1 : 20



4 EXTERIOR OVERHEAD DOOR APRON SLAB

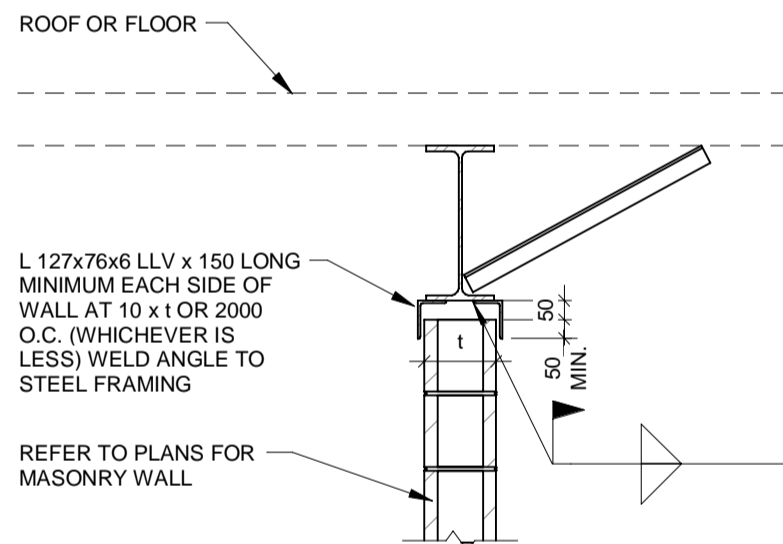
S-104 1 : 20

5 LATERAL SUPPORT FOR TOP WALLS AT NON-LOADBEARING MASONRY

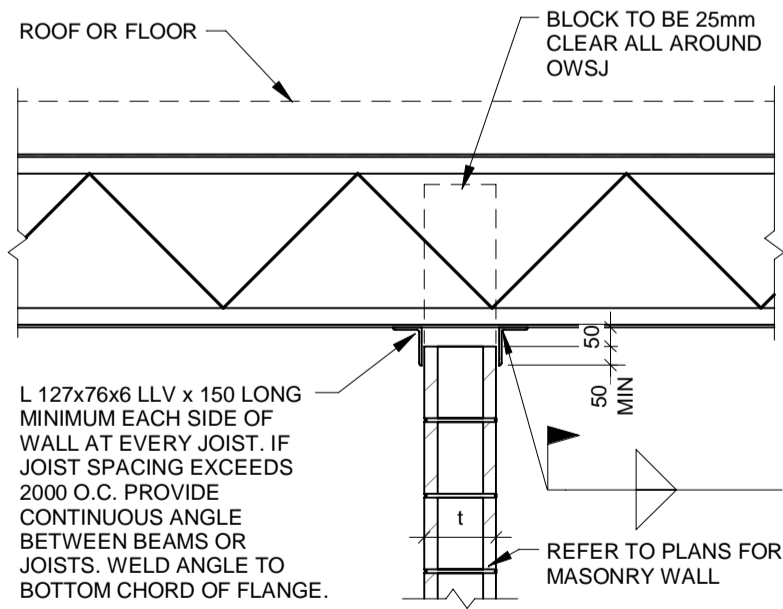
S-104 1 : 20

NOTES:

1. PROVIDE 150x6 PL. AS REQUIRED FOR THICKER WALLS UNDER JOISTS OR BEAMS.
2. FILL GAPS WITH COMPRESSIBLE MATERIAL AS INDICATED ON ARCHITECTURAL DRAWINGS.
3. DEFLECTION GAP 50 OR SPAN OF JOIST/360.

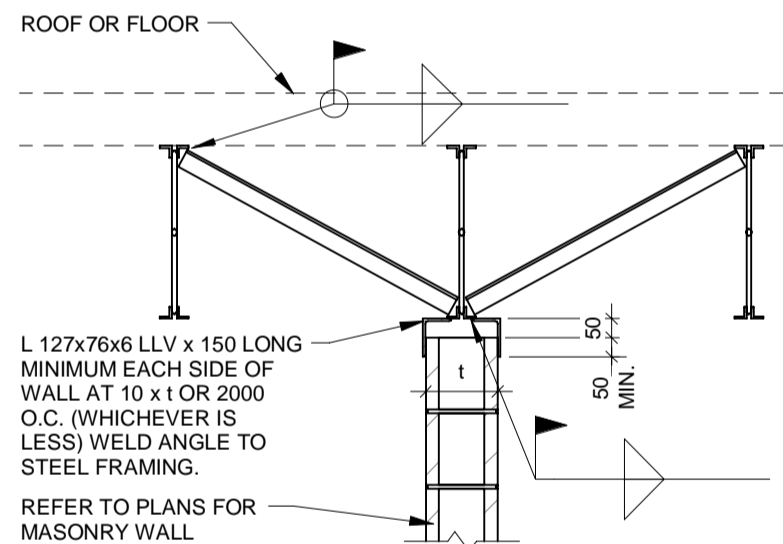


PARTITION WALL AT UNDERSIDE OF BEAMS

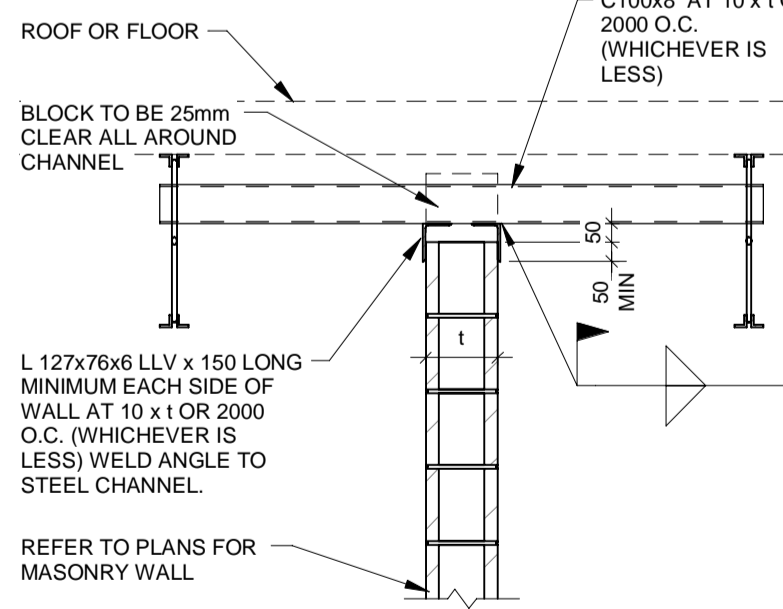


PARTITION WALL PERPENDICULAR TO JOIST OR BEAM

- NOTES:**
1. PROVIDE 150x6 PL. AS REQUIRED FOR THICKER WALLS UNDER JOISTS OR BEAMS.
 2. FILL GAPS WITH COMPRESSIBLE MATERIAL AS INDICATED ON ARCHITECTURAL DRAWINGS.
 3. DEFLECTION GAP 50 OR SPAN OF JOIST/360.

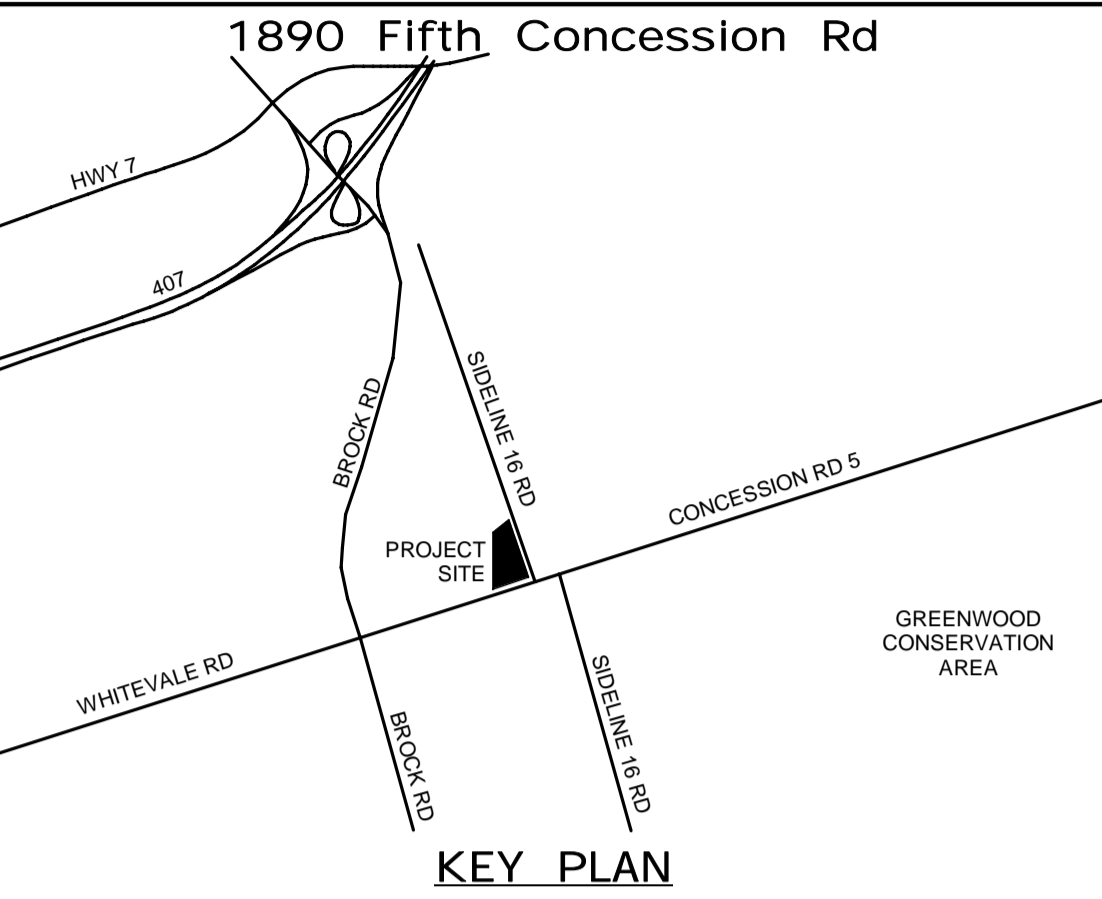


PARTITION WALL AT UNDERSIDE OF JOISTS



PARTITION PARALLEL TO JOISTS OR BEAMS

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LICENSED PROFESSIONAL ENGINEER
K.T.D. DUNG
100055126
Mar. 22/2022
PROVINCE OF ONTARIO

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|-------------------|---------------------------------|
| SUB CONSULTANT | |
| DESIGN BY: D.S. | SCALE: As Indicated |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

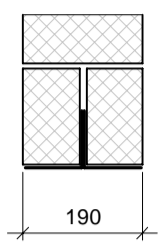
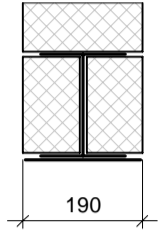
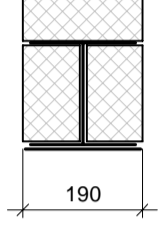
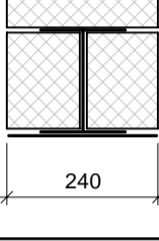
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

DETAILS SHEET 3 OF 7

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 104 | SHEET NO. |

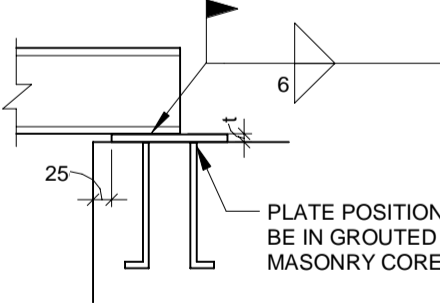
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| STEEL LINTELS ON CONCRETE BLOCK WALLS | | | | | |
|---------------------------------------|----------------|---------------------|-----------------------------|---------------|--|
| MARK | WALL THICKNESS | WALL TYPE | DESCRIPTION | BEARING PLATE | DETAIL |
| L1 | 190mm | INTERIOR | 2-L 89x89x6.4 | NONE |  |
| L2 | 190mm | INTERIOR & EXTERIOR | W200x27 + 6mm x 180mm PLATE | BP1 |  REFER TO RefAIL |
| L3 | 190mm | INTERIOR | W200x36 + 6mm x 180mm PLATE | BP2 |  REFER TO RefAIL |
| L4 | 240mm | INTERIOR | W200x36 + 6mm x 230mm PLATE | BP2 |  REFER TO RefAIL |

NOTES:

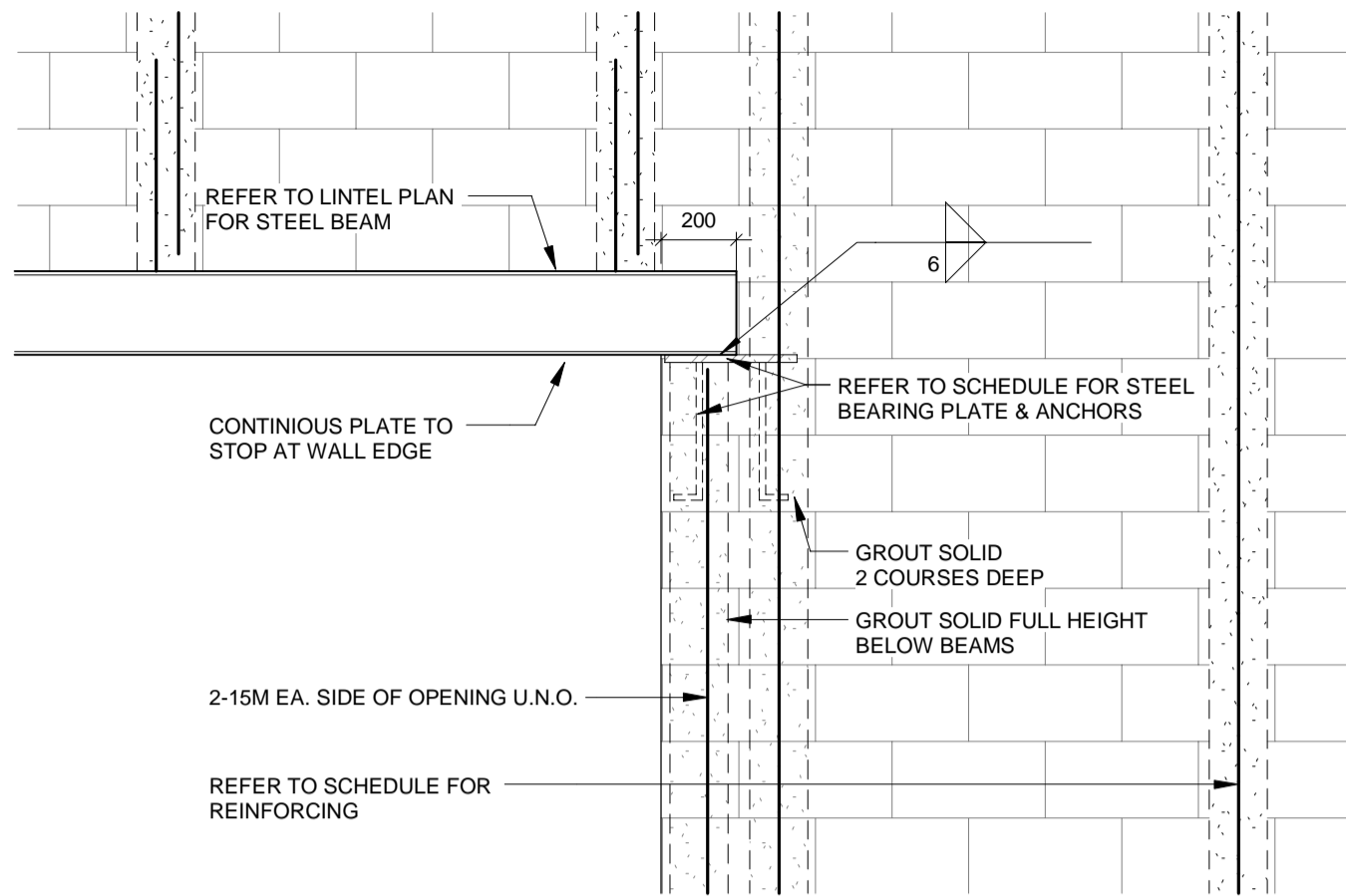
- BEARING LENGTH: 200mm MINIMUM AT EACH END (ANGLED LINTEL) ON FILLED OR SOLID MASONRY U.N.O.
- CONNECT BACK TO BACK ANGLES AT 450 O.C. BY WELDING
- ALL ANGLES ARE LONG LEG VERTICAL (LLV) U.N.O.
- COORDINATE ALL ADDITIONAL REQUIRED OPENINGS WITH ALL DISCIPLINES.
- FOR MASONRY OPENINGS LESS THAN OR EQUAL TO 300mm WIDE, USE A 8mm THICK STEEL PLATE LINTEL THE EDGE OF THE PLATE SHALL BE RECESSED 6mm FROM EACH WALL FACE. PROVIDE 150mm BEARING EACH SIDE.
- STEEL LINTELS ARE NOT REQUIRED FOR OPENINGS LESS THEN 150mm.
- FOR LINTEL "L1", PROVIDE MINIMUM BEARING OF SOLIDLY GROUTED BLOCK TWO COURSES DEEP.
- LINTELS "L2" TO "L4", PROVIDE BEAM BEARING PLATES (REFER TO BEARING PLATE SCHEDULE) INTO SOLIDLY GROUTED REINFORCED CORES, TWO COURSES DEEP. LOCATE BEARING PLATES MINIMUM 25mm FROM EDGE OF OPENING.
- ALL STEEL LINTEL BEAM ASSEMBLIES IN EXTERIOR WALLS ARE TO BE HOT-DIPPED GALVANIZED.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL WALL OPENINGS REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

| BEARING PLATE SCHEDULE | | | | |
|------------------------|-----------------------|------------|---------------------------|-------------------------|
| MARK | BEAM MAX FLANGE WIDTH | BEAM SIZE | PLATE SIZE (MM) T x W x L | ANCHORS REQUIRED |
| BP1 | 150mm | SEE PLANS | 16 x 170 x 300 | 2-19mmØ |
| BP2 | 175mm | SEE PLANS | 16 x 190 x 300 | 2-19mmØ |
| BP3 | STEEL DECK | STEEL DECK | 6 x 100 CONTINUOUS | 1 - 18mmØ AT 400mm O.C. |

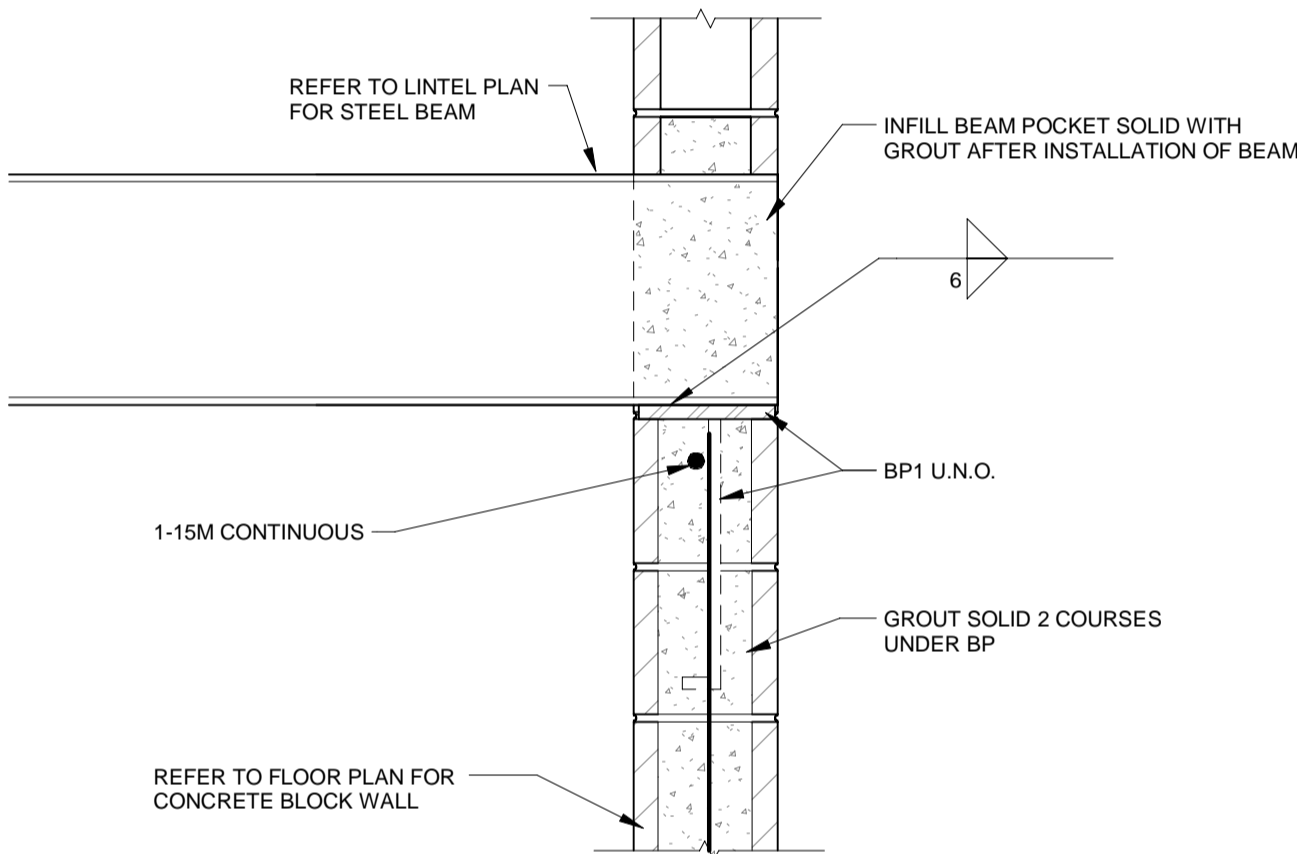


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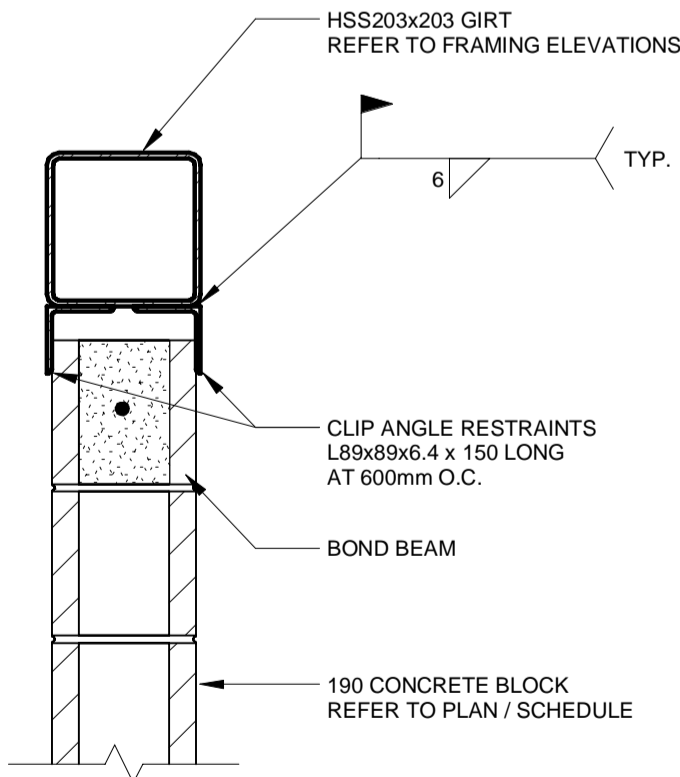
- BEAM BEARING LENGTH (L) MUST MATCH BASE PLATE DIMENSION.
- ANCHORS SHALL BE FULLY WELDED TO THE BEARING PLATE:
16mm DIA. x 150mm LONG w/ 50mm HOOK; 550mm LONG FOR ROOF LEVEL.
19mm DIA. x 350mm LONG w/ 50mm HOOK.
- SEE DETAILS ON THIS SHEET FOR WALL REINFORCING UNDER BEARING PLATE LOCATIONS.
- REFER TO LINTEL SCHEDULE FOR REQUIRED BEARING PLATES AT LINTEL LOCATIONS.



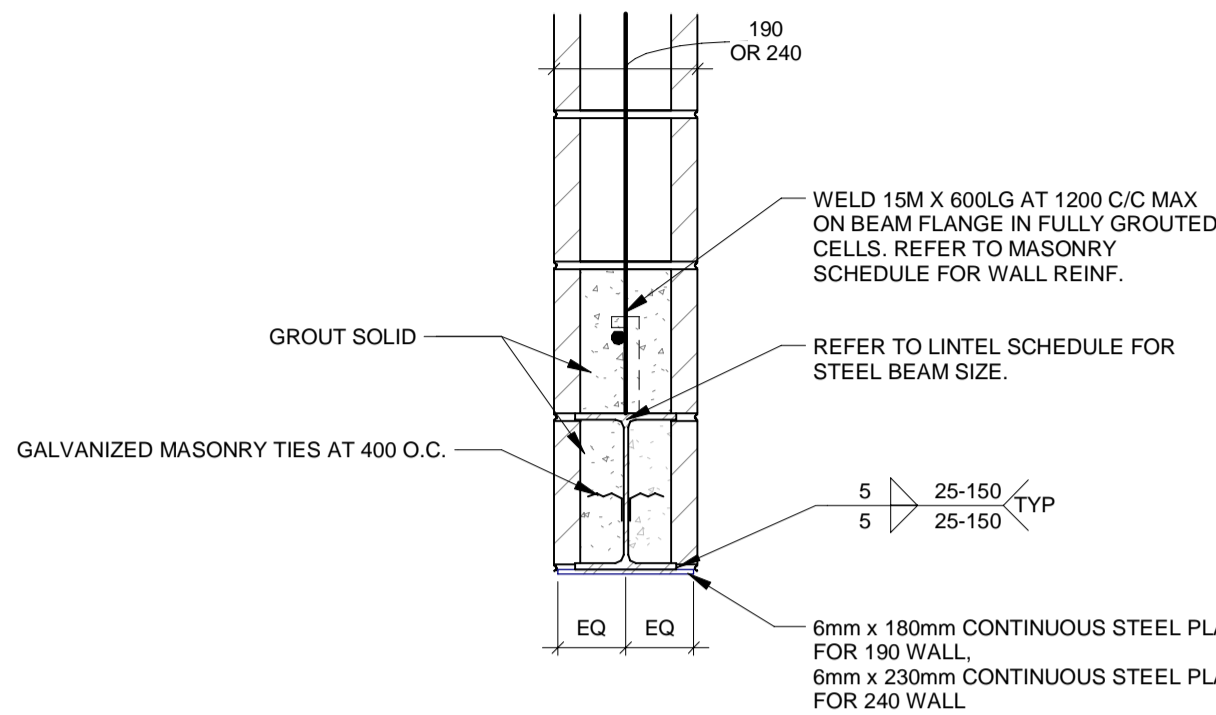
1 STEEL LINTEL ON MASONRY WALL DETAIL



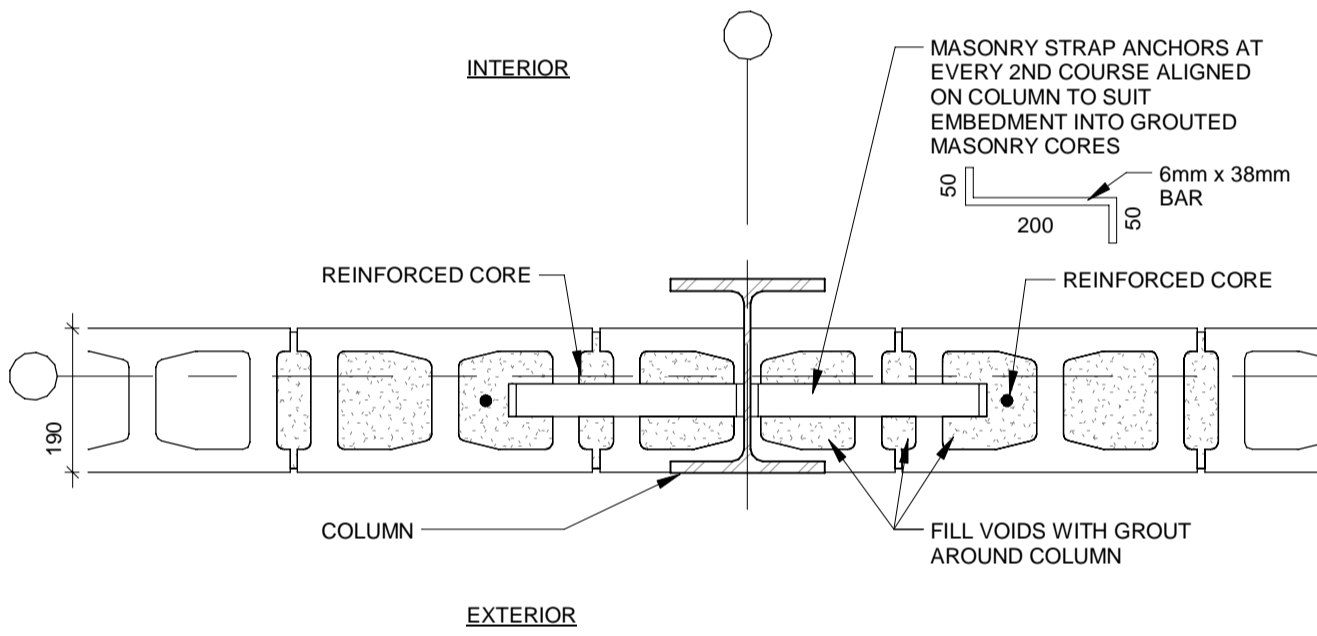
3 PERPENDICULAR SUPPORT



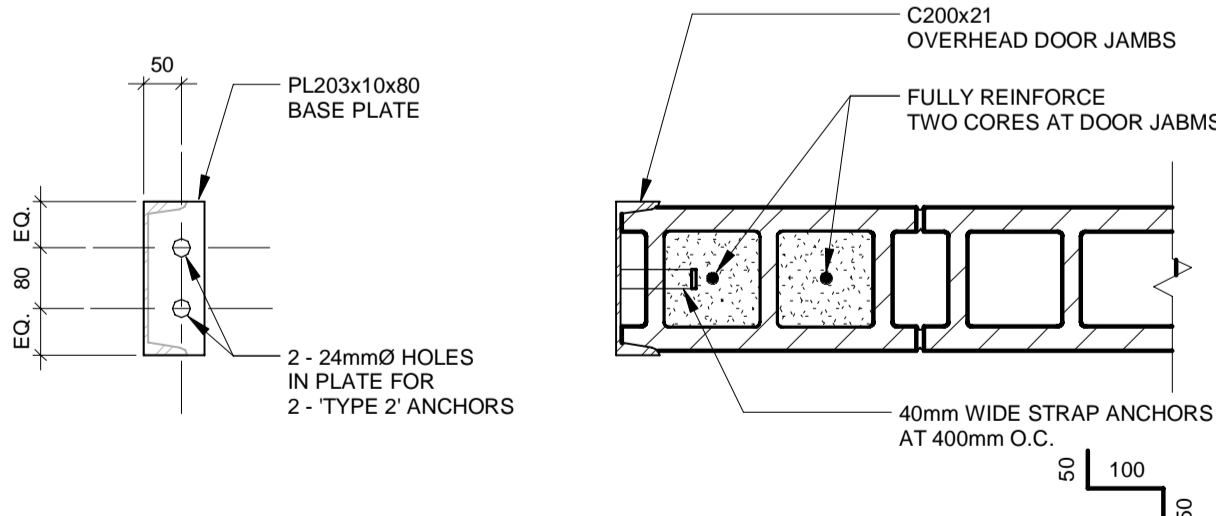
5 TYPICAL DETAILS - EXTERIOR MASONRY WALL AT GIRT



2 TYPICAL STEEL BEAM LINTEL



4 MASONRY WALL ANCHORAGE AT COLUMN

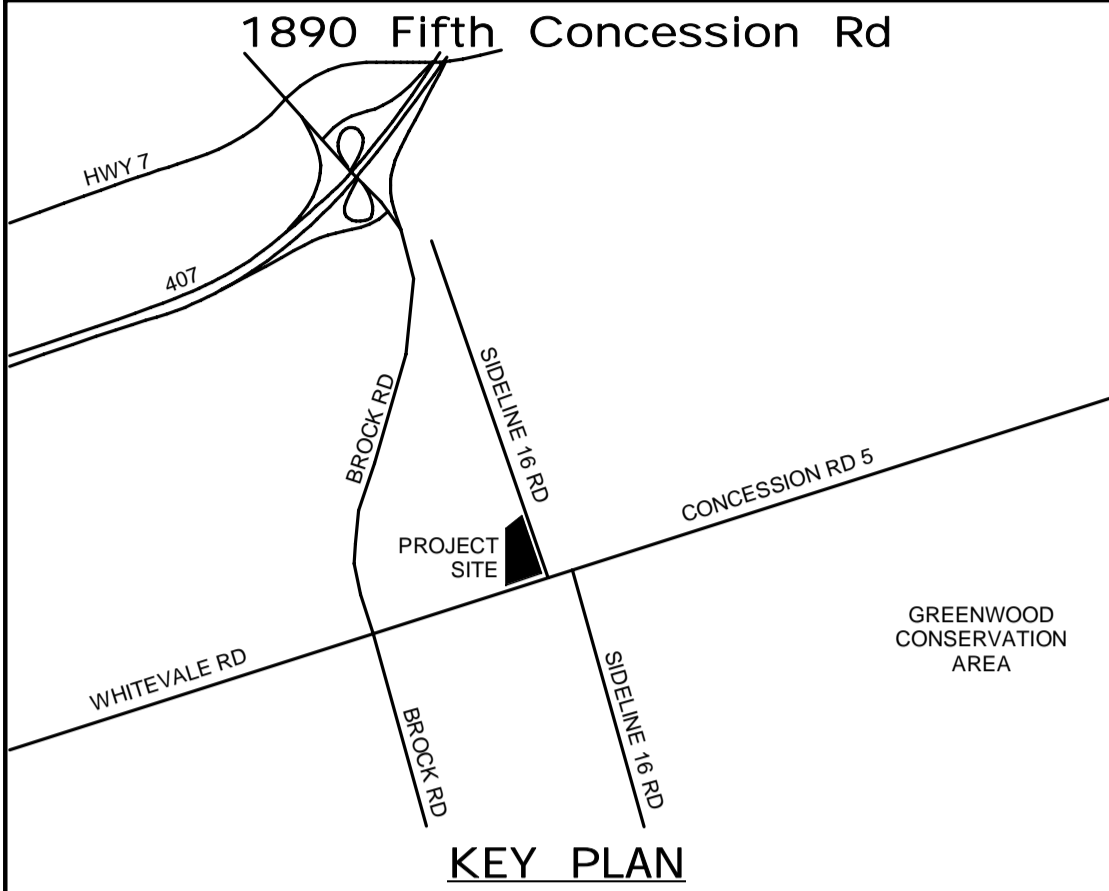


JAMB BASE PLATE DETAIL

JAMB DETAIL

6 TYPICAL DETAIL - OVERHEAD DOOR JAMB AT BLOCK

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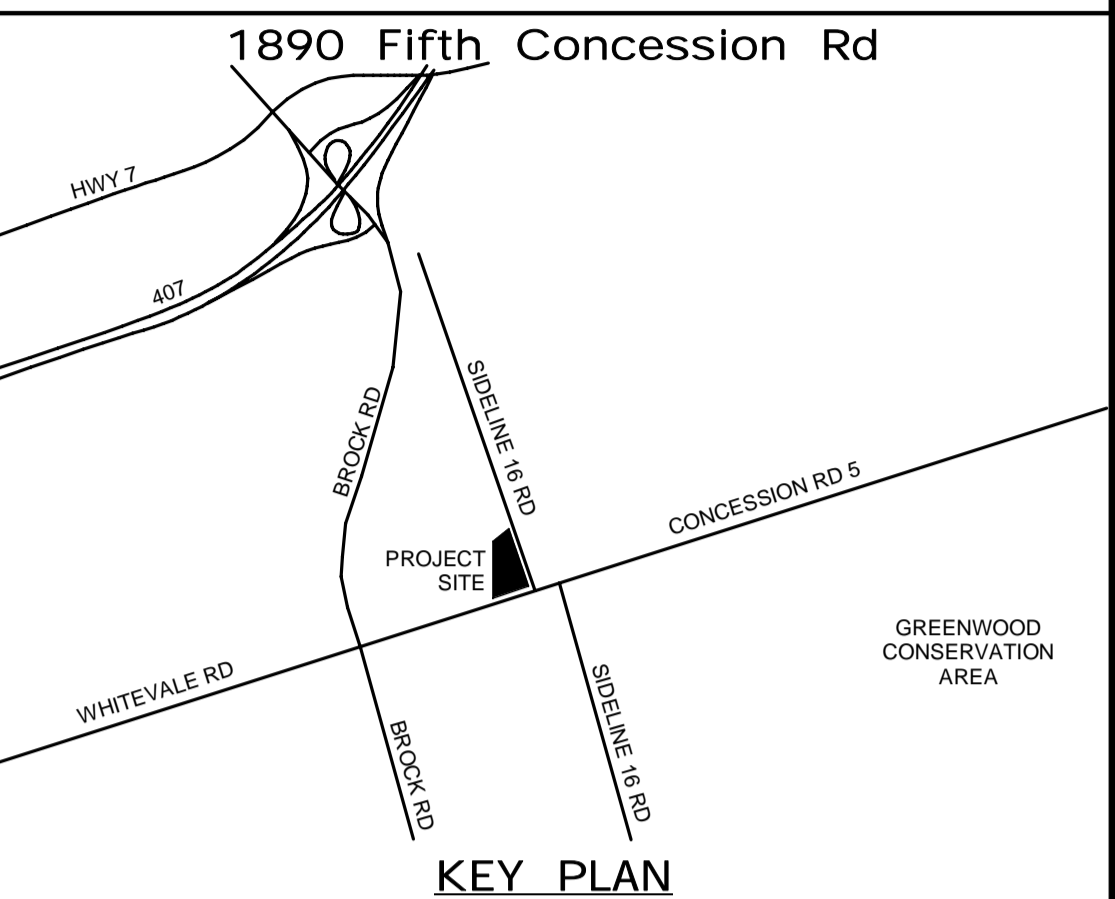
THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

DETAILS SHEET 4 OF 7

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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 105 | SHEET NO. |

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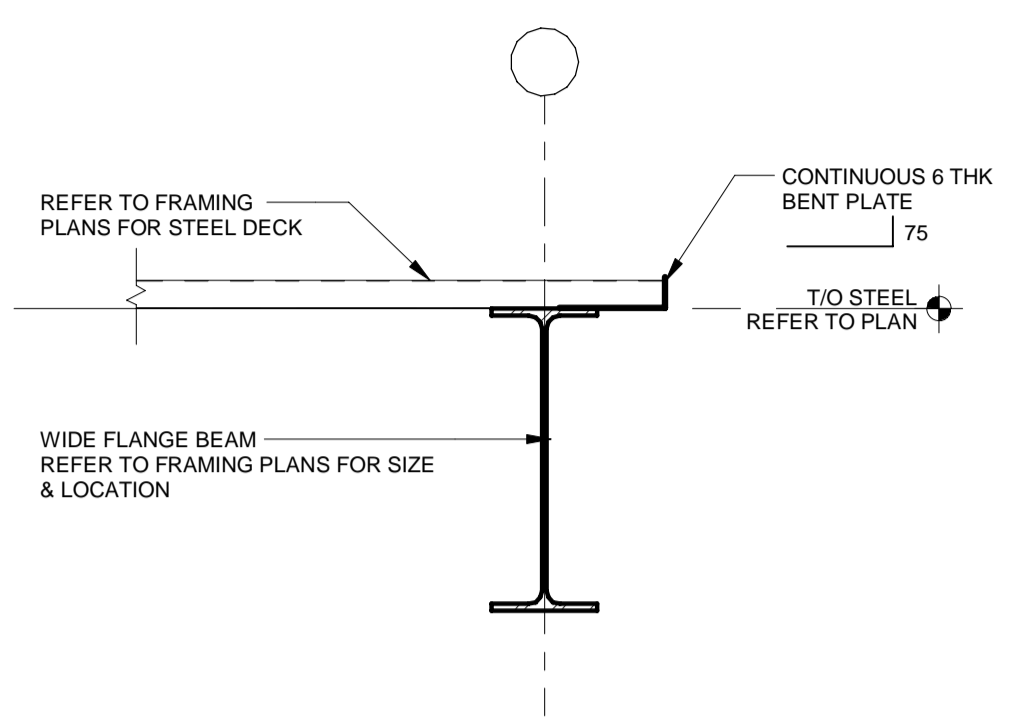
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THE REGIONAL MUNICIPALITY OF DURHAM
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NEW PARAMEDICS STATION - SEATON

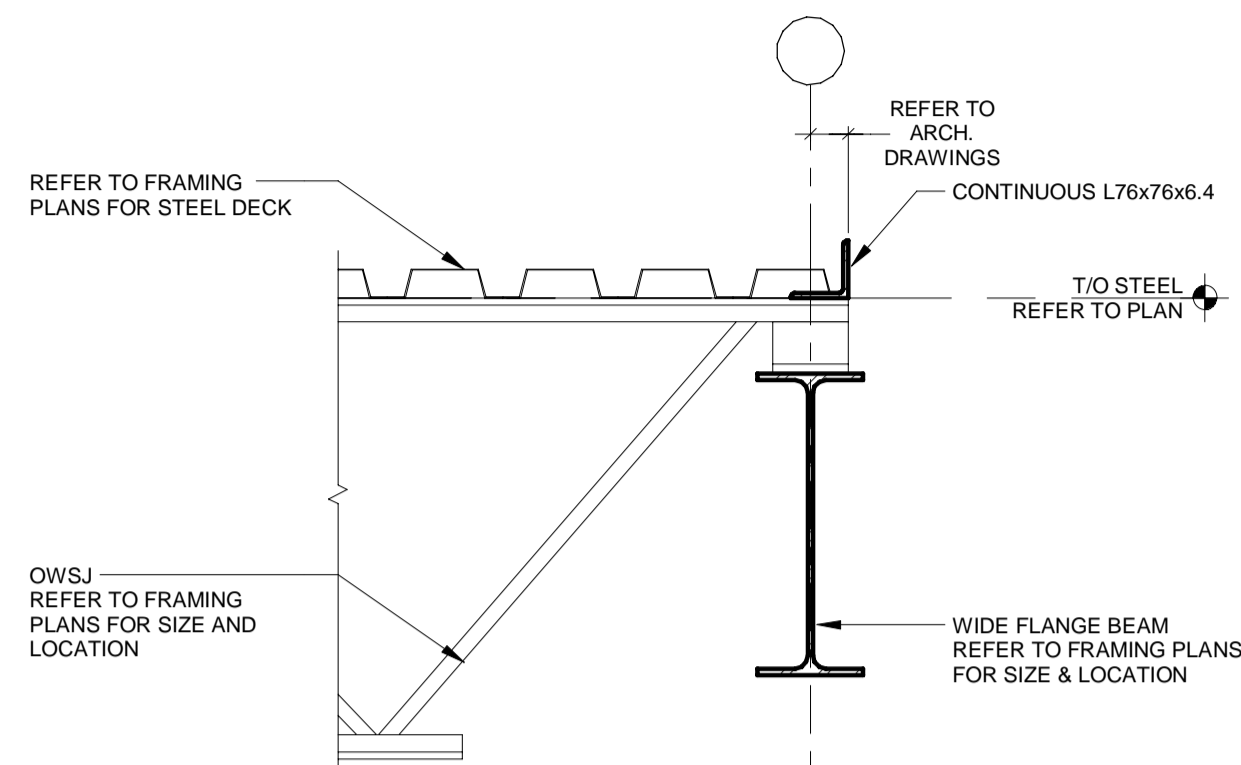
DETAILS SHEET 5 OF 7

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 106 | SHEET NO. |



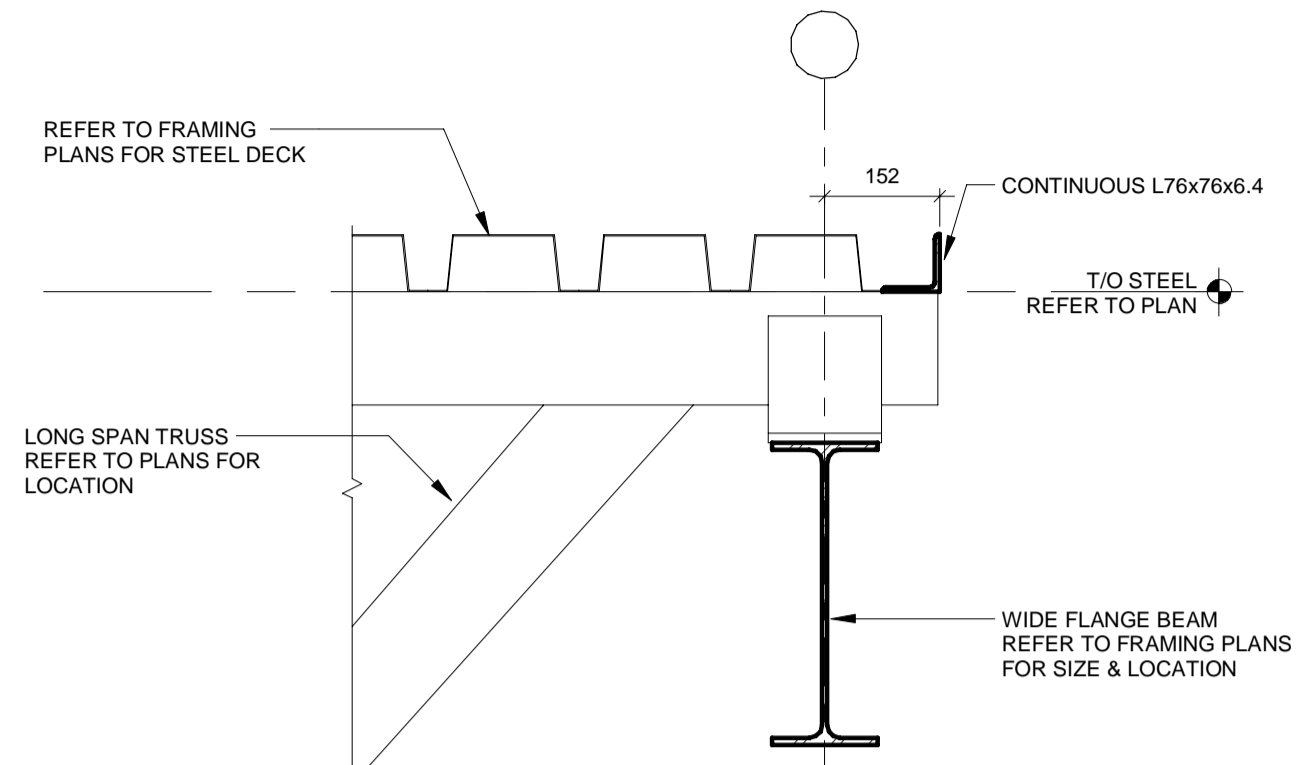
TYPICAL ADMIN ROOF AT BEAM
TYPICAL VEHICLE BAY ROOF AT BEAM

1 EDGE OF DECK DETAIL
S-106 1 : 10



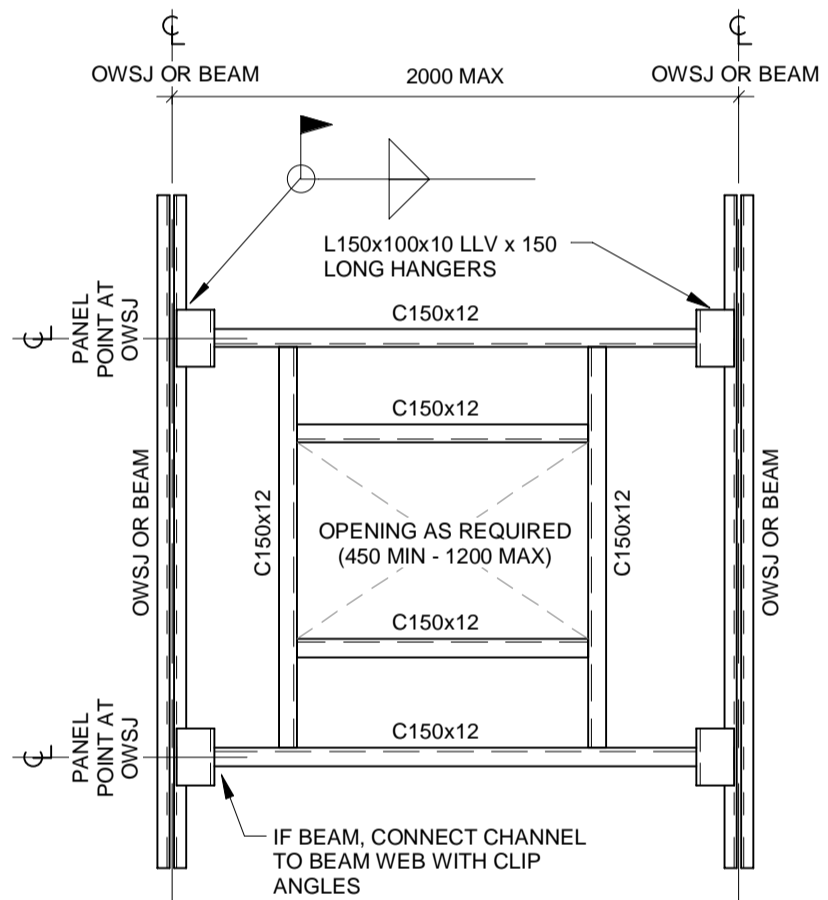
TYPICAL ADMIN ROOF AT OWSJ

2 EDGE OF DECK DETAIL
S-106 1 : 10

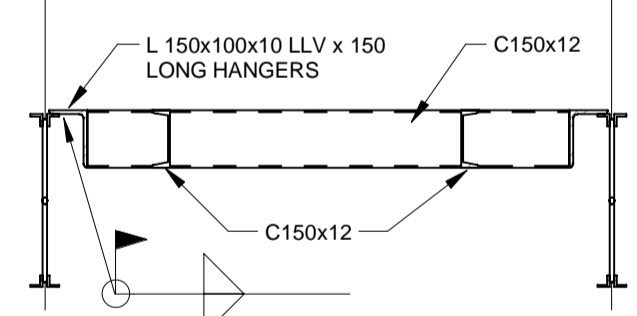


TYPICAL VEHICLE BAY - ROOF AT TRUSS

3 EDGE OF DECK DETAIL
S-106 1 : 10



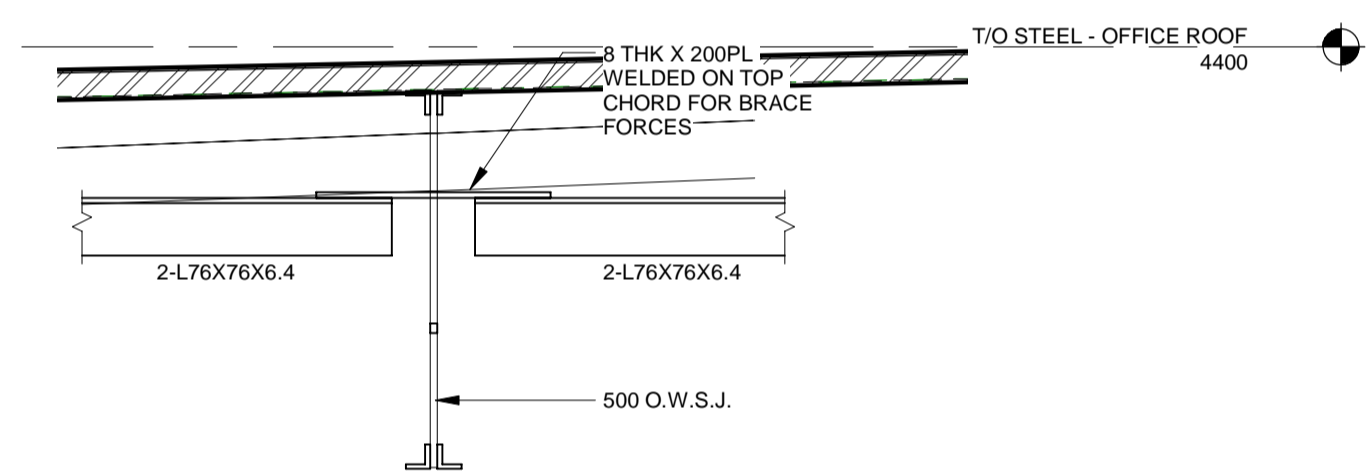
PLAN



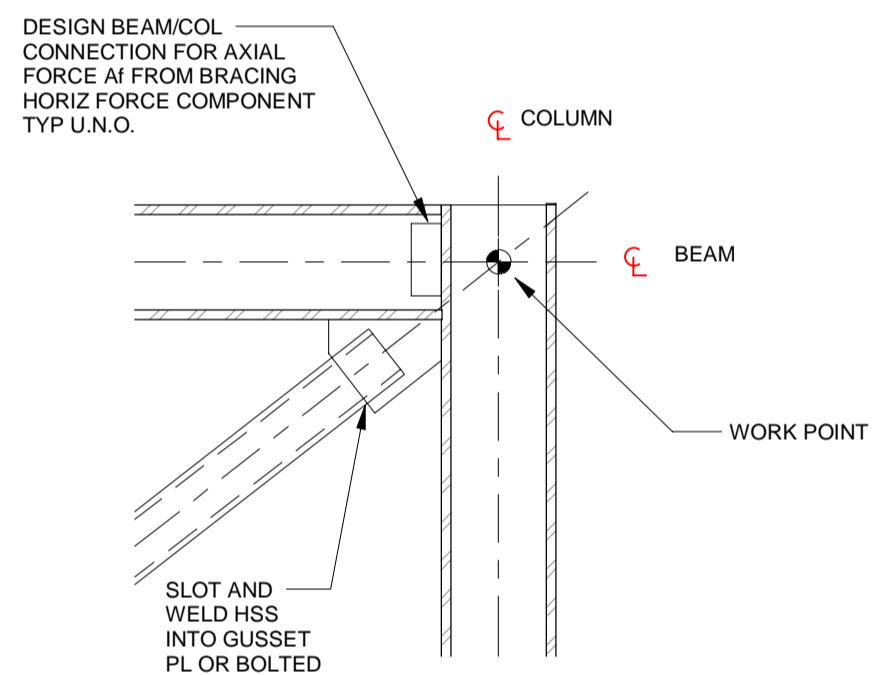
SECTION

- NOTES:**
- DECK REINFORCEMENT FOR OPENINGS LESS THAN 450x450 TO BE PROVIDED BY DECK MANUFACTURER.
 - TOP OF STEEL OPENING FRAMING TIGHT TO UNDERSIDE OF DECK U.N.O.
 - LOCATION WEIGHT AND SIZE OF ALL MECHANICAL UNITS AND OPENINGS THROUGH DECK SHALL BE VERIFIED BY CONTRACTOR WITH MECHANICAL DRAWINGS AND MANUFACTURER PRIOR TO FABRICATION.
 - STRUCTURAL STEEL ERECTION DRAWINGS SHALL SHOW LOCATION AND SIZE OF OPENINGS AND MECHANICAL UNITS INCLUDING WEIGHTS.
 - DESIGN OWSJ FOR ADDITIONAL WEIGHT OF MECHANICAL UNITS AND SNOW BUILD UP.

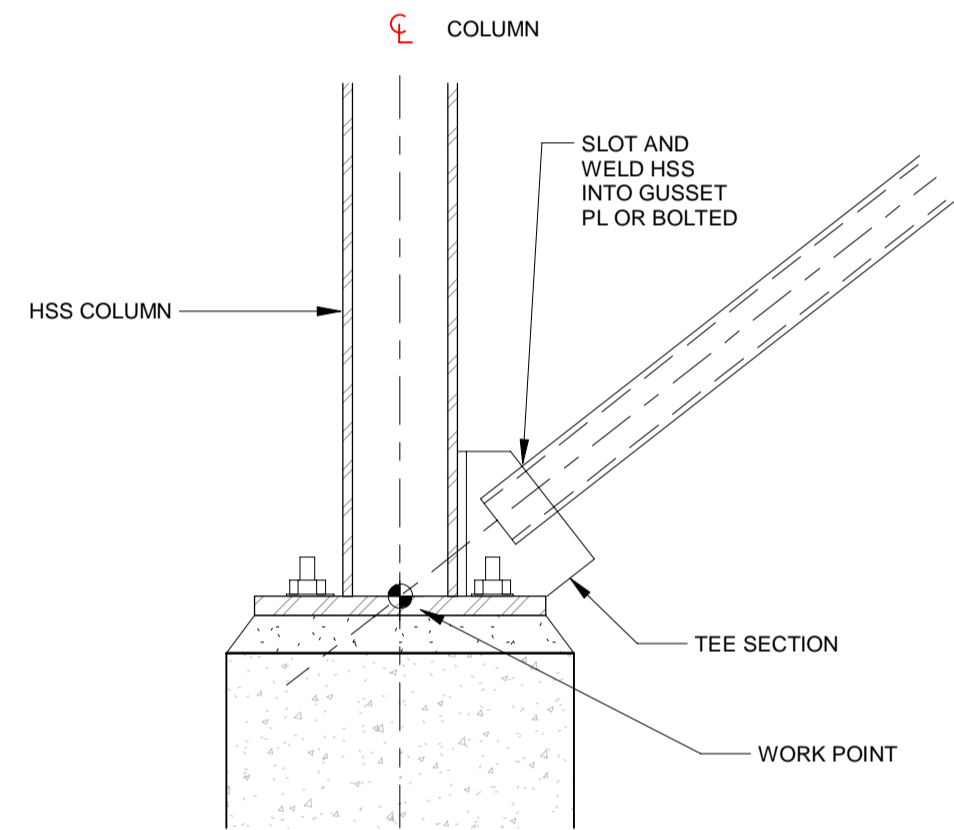
4 STEEL DECK/ROOF OPENING FRAMING
S-106 1 : 20



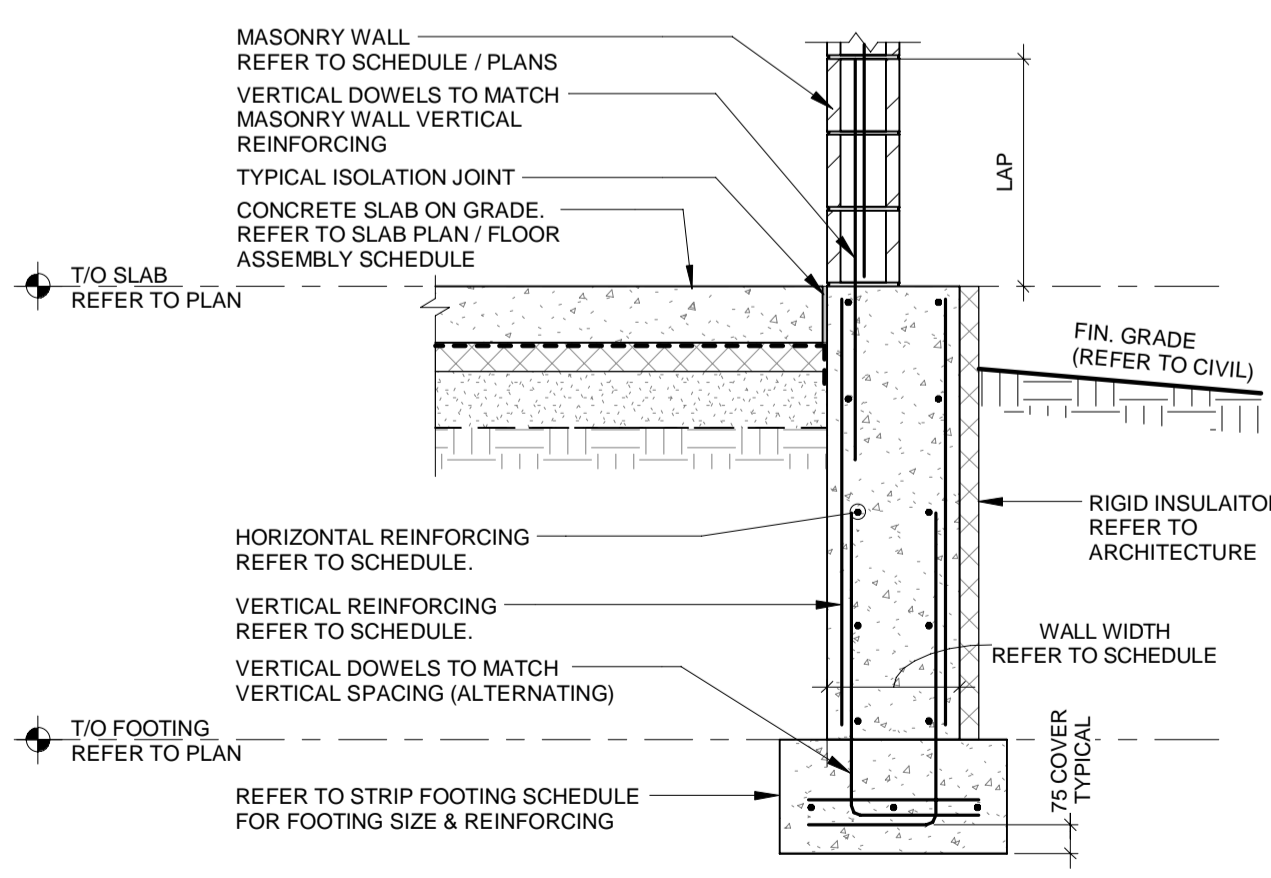
5 TYPICAL TOP CHORD BRACE SECTION
S-200 S-106 1 : 10



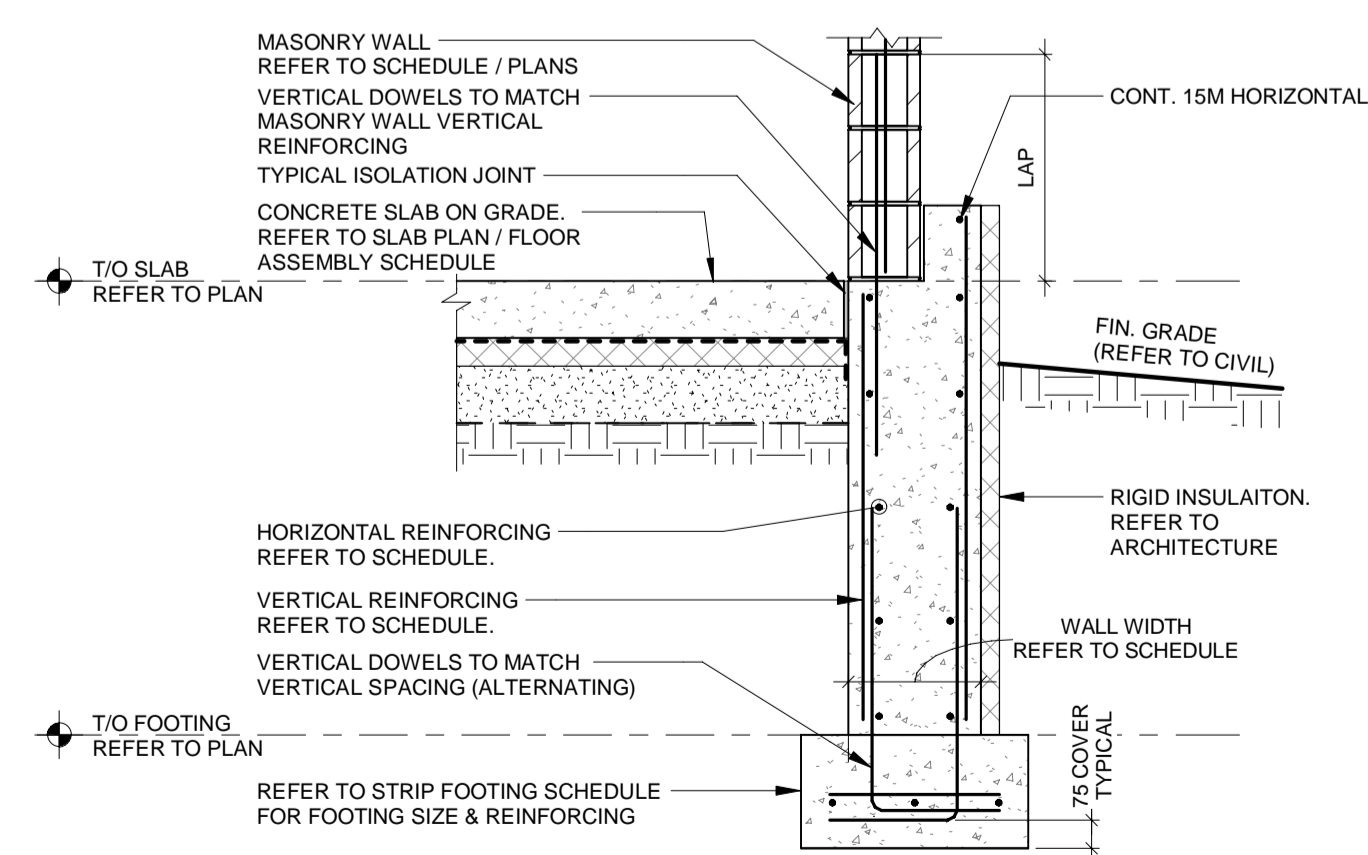
6 BRACING CONNECTION AT TOP
S-106 1 : 10



7 BRACING CONNECTION AT BASE
S-106 1 : 10



8 TYP. EXTERIOR FOUNDATION WALL - VEHICLE BAY OR ADMIN
S-106 1 : 20



9 TYP. EXT'R FDN. WALL w/ CURB - VEHICLE BAY OR ADMIN
S-106 1 : 20

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1890 Fifth Concession Rd

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SCALE: As Indicated

DATE: 03/31/21

CONSULTANT PROJECT NO. 60611569

CLIENT FILE No.: 811/20

| CONTRACT REVISIONS | | | |
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| NO | DATE | NAME | REVISIONS |
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**THE REGIONAL MUNICIPALITY
OF DURHAM**

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

DETAILS SHEET 6 OF 7

PROPERTY NO.

FACILITIES CODE

FACILITIES PROJECT NO.

CONTRACT NO.

DRAWING NO.

SHEET NO.

T- 1160- 2021

S- 107

P061- 18- 01

1 SCREEN POST SUPPORT DETAIL

S-203 S-107 1 : 10

2 SCREEN POST SUPPORT DETAIL

S-203 S-107 1 : 10

A SECTION

S-107 S-107 1 : 10

4 TYPICAL FLAG POLE AND FOUNDATION

S-107 1 : 25

5 TYPICAL BOLLARD AND FOUNDATION

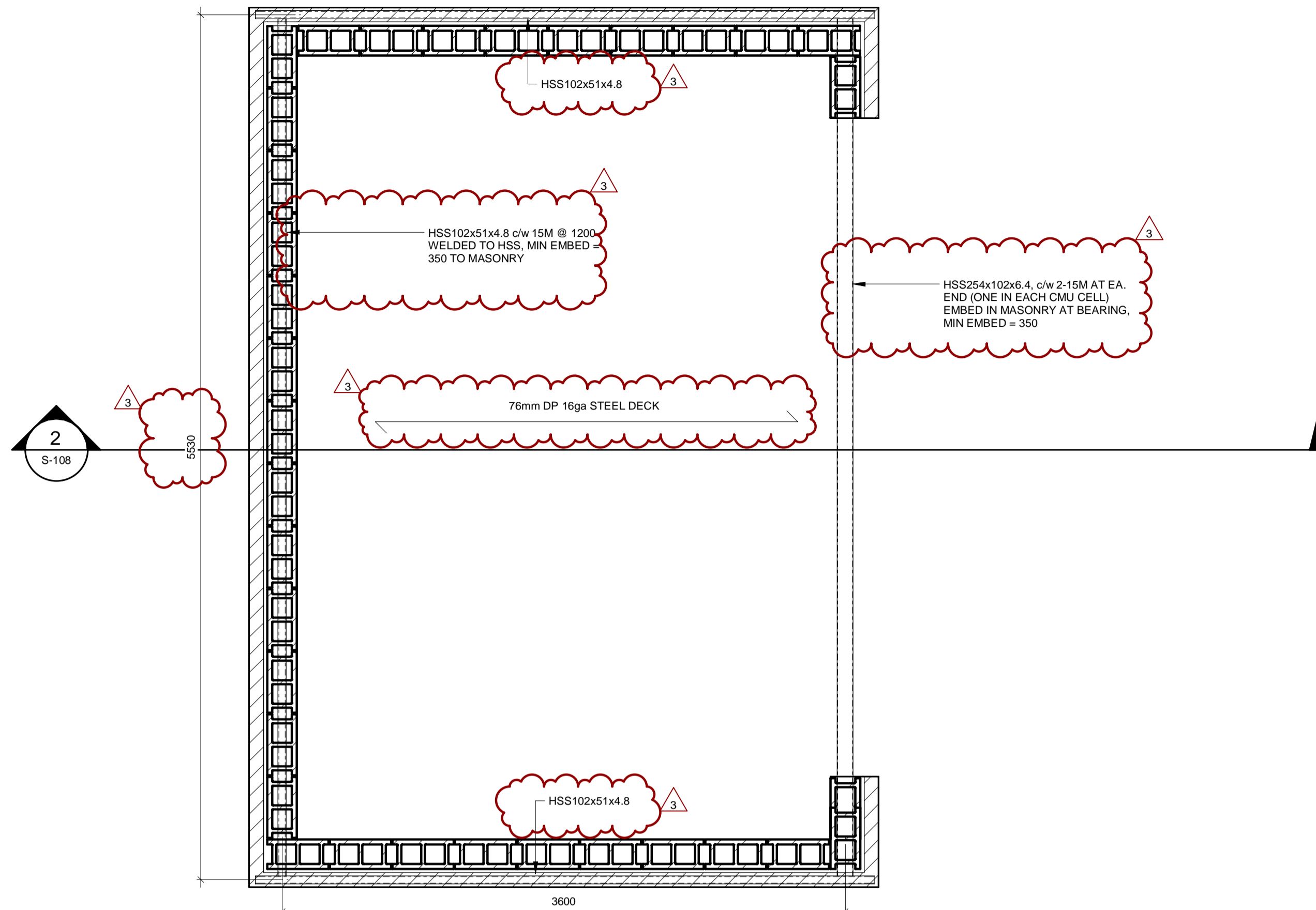
S-107 1 : 25

6 TYPICAL TRAFFIC SIGN FOUNDATION

S-107 1 : 25

3 SCREEN POST SUPPORT DETAIL

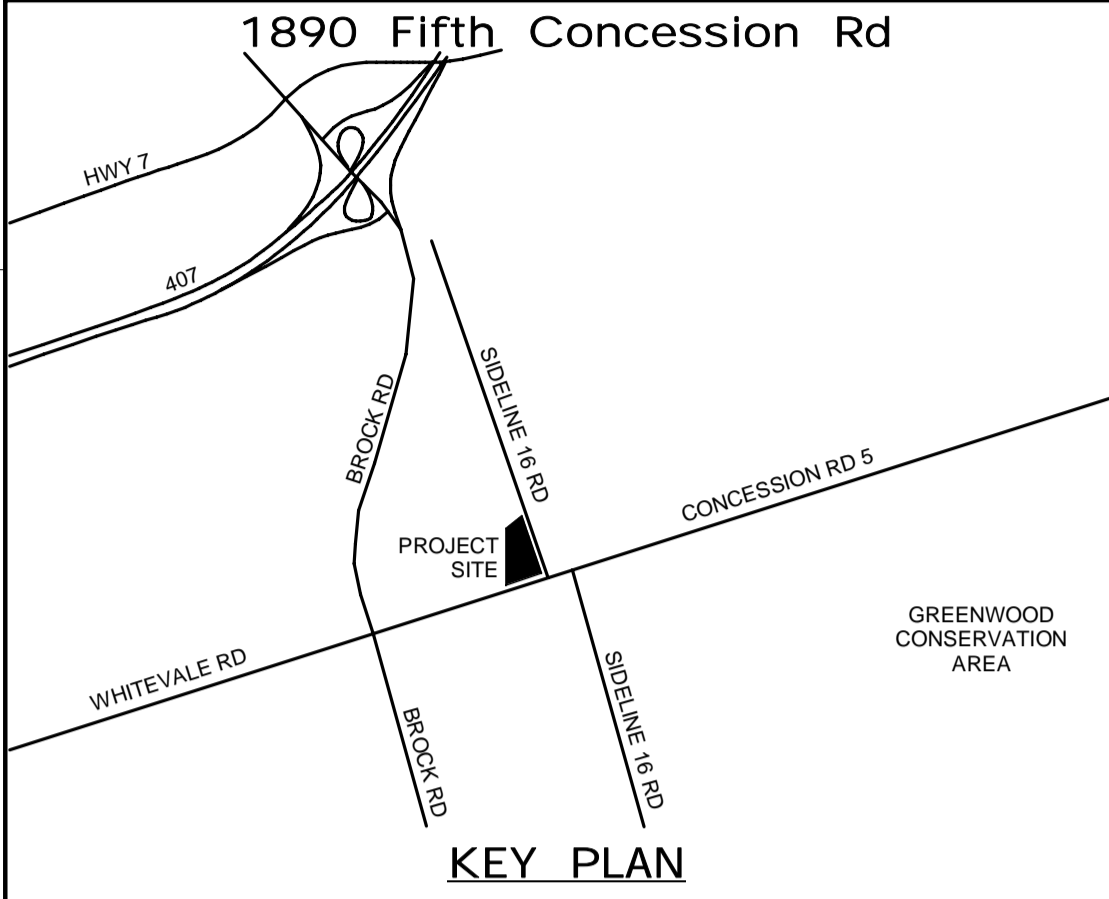
S-203 S-107 1 : 10



1 GARBAGE ENCLOSURE PLAN
S-401 S-108 1 : 25

- NOTES:
- REFER TO S100, S101 FOR GENERAL STRUCTURAL NOTES
 - DESIGN LOADS:
ROOF DEAD LOAD, D = 0.60 kPa
BASE SNOW LOAD, S = 1.20 kPa (PICKERING 1/50 YR)
WIND LOAD, q = 0.48 kPa (PICKERING 1/50 YR)
 - WELD DECK TO SUPPORTING STEEL WITH 20mm DIA. PLUG WELDS AT 300mm O/C MAXIMUM, SIDES BUTT PUNCHES AT 600mm O/C MAXIMUM, MARGINAL WELDS AT 900mm MAXIMUM, OR EQUIVALENT ENGINEER APPROVED MECHANICAL FASTENING SYSTEM

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



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LICENSED PROFESSIONAL ENGINEER
K.T.D. DUONG
100055126
Mar. 22/2022
PROVINCE OF ONTARIO

| | |
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| DESIGN BY: D.S. | SCALE: As Indicated |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

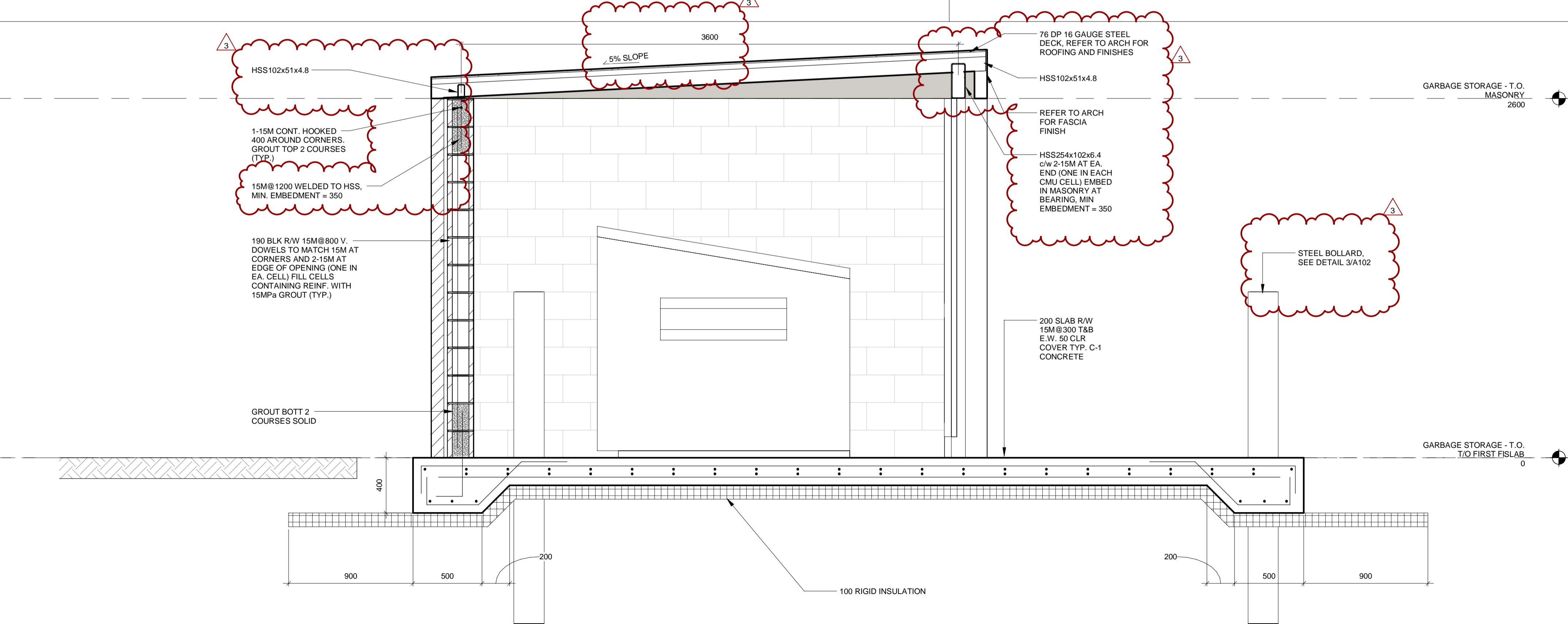
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| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

DETAILS SHEET 7 OF 7

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 108 | SHEET NO. |



2 SECTION
S-108 S-108 1 : 20

BIM 300/JBP-AMER (CAN) 60611569-Station RDPDS-S.rvt

FOUNDATION PLAN - GENERAL NOTES

NOTES:

- TOP OF FOOTINGS ARE AT EL. -1200, UNLESS NOTED AS PER SYMBOL LEGEND.
- SCHEDULES AND LEGENDS IN REGARDS TO FOUNDATION PLANS ARE TO BE READ IN CONJUNCTION WITH SCHEDULES.
- ALL CONTINUOUS WALL STRIP FOOTINGS ARE TO BE CENTERED ON THE ASSOCIATED WALL, EXCEPT WHERE OTHERWISE DIMENSIONED.
- 'S.F.' DENOTES APPROXIMATE LOCATIONS OF STEP FOOTING. REFER TO TYPICAL DETAILS. CONTRACTOR TO LOCATE TO SUIT CONSTRUCTION CONDITIONS.
- ALL SPREAD FOOTINGS ARE TO BE CENTERED ON THE COLUMN GRID LINES, EXCEPT WHERE OTHERWISE DIMENSIONED.
- MECHANICAL SERVICES ARE SHOWN FOR REFERENCE AND INTERFACE WITH FOUNDATION ELEMENTS. FINAL LOCATION, SIZE AND COMPOSITION ARE TO BE COORDINATED WITH OTHER DISCIPLINES AS NOTED.

LEGEND

- SDF DENOTES APPROXIMATE LOCATION OF TYPICAL STEP DOWN FOOTING
- DENOTES APPROXIMATE LOCATION OF TYPICAL FOUNDATION CONTROL JOINT
- TOP OF FOOTING RELATIVE TO TOP OF FINISHED GROUND FLOOR CONCRETE SLAB
- TYPICAL 200mm DROP IN FOUNDATION WALL AT OPENING

STRUCTURAL CONCRETE WALL SCHEDULE - PHASE 1

| TYPE MARK | WALL WIDTH | USE | REINFORCING |
|-----------|------------|------------|---------------------------------|
| CW-200 | 200 | FOUNDATION | 15M@300 V & H |
| CW-240 | 240 | FOUNDATION | 15M@400 V.E.F. + 10M@300 H.E.F. |
| CW-310 | 310 | FOUNDATION | 15M@400 V.E.F. + 10M@300 H.E.F. |
| CW-315 | 315 | FOUNDATION | 15M@400 V.E.F. + 10M@300 H.E.F. |
| CW-345 | 345 | FOUNDATION | 15M@400 V.E.F. + 10M@300 H.E.F. |
| CW-400 | 400 | FOUNDATION | 15M@400 V & H.E.F. |
| CW-430 | 430 | FOUNDATION | 15M@350 V & H.E.F. |
| CW-500 | 500 | FOUNDATION | 15M@350 V & H.E.F. |
| CW-650 | 650 | FOUNDATION | 15M@300 V & H.E.F. |
| CW-750 | 750 | FOUNDATION | 15M@300 V & H.E.F. |

STRUCTURAL PIER SCHEDULE - PHASE 1

| TYPE MARK | DIMENSIONS | | REINFORCEMENT |
|-----------|------------|--------|-----------------------------------|
| | WIDTH | LENGTH | |
| P-1 | 600 | 600 | 8-20M VERT. W/ 10M TIES @ 300 o/c |
| P-2 | 500 | 500 | 8-20M VERT. W/ 10M TIES @ 300 o/c |

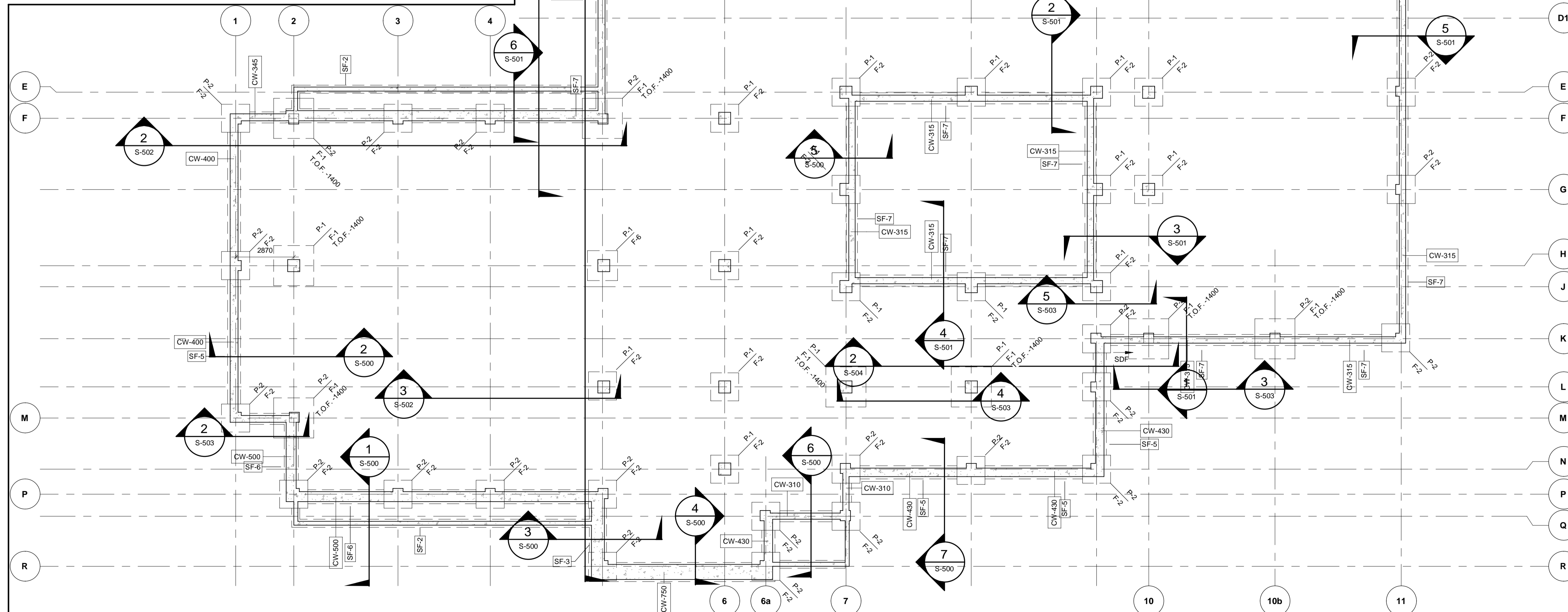
STRUCTURAL SPREAD FOOTING SCHEDULE - PHASE 1

| TYPE MARK | DIMENSIONS | | | REINFORCEMENT |
|-----------|------------|-------|-------|---|
| | LENGTH | WIDTH | THICK | |
| F-1 | 2000 | 2000 | 350 | 8-15M B.E.W. |
| F-2 | 1400 | 1400 | 350 | 5-15M B.E.W. |
| F-4 | 1730 | 1065 | 1200 | |
| F-5 | 4000 | 2100 | 400 | 8-20M T.U.L. + 15M@300 T.S.W. 8-20M B.U.L. + 20M@300 B.S.W. |
| F-6 | 1500 | 1500 | 350 | 5-15M B.E.W. |

SEE DWG 200.1 FOR PHASE 2

STRUCTURAL STRIP FOOTING SCHEDULE - PHASE 1

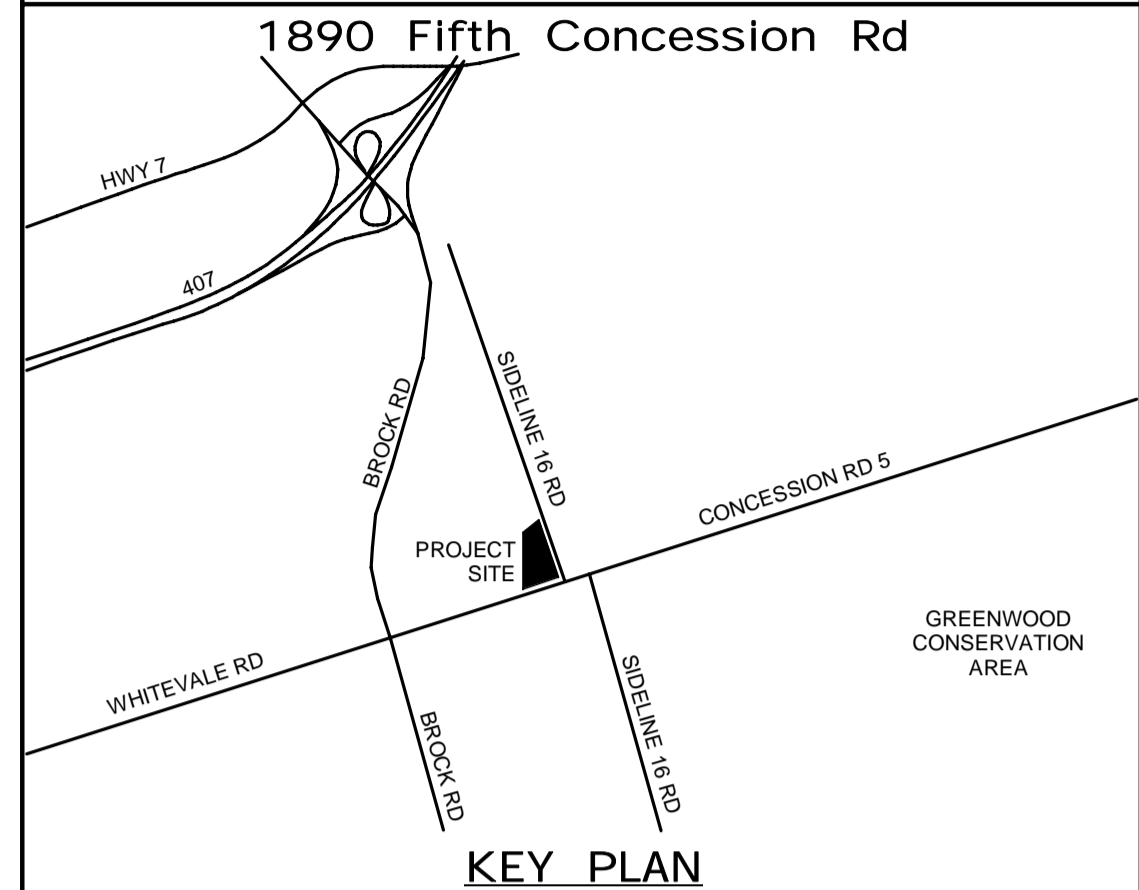
| TYPE MARK | DIMENSIONS | | REINFORCEMENT |
|-----------|------------|-------|---|
| | WIDTH | THICK | |
| SF-1 | 500 | 250 | 2-15M B. CONT. |
| SF-2 | 400 | 250 | 2-15M B. CONT. |
| SF-3 | 860 | 250 | 3-15M B. CONT. + 15M@400 B.L.L. |
| SF-4 | 950 | 250 | 4-15M B. CONT. + 15M@400 B.L.L. (SEE SECTION) |
| SF-5 | 650 | 250 | 3-15M B. CONT. + 15M@400 B.L.L. |
| SF-6 | 700 | 250 | 3-15M B. CONT. + 15M@400 B.L.L. |
| SF-7 | 550 | 250 | 3-15M B. CONT. + 15M@400 B.L.L. |



1 00 FOUNDATION PLAN - PHASE 1

1:125

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SUB CONSULTANT



DESIGN BY: D.S.

SCALE: As Indicated

DRAWN BY: R.E.

DATE: 03/31/21

CHECKED BY: C.Y.

CONSULTANT PROJECT NO. 60611569

APPROVED BY: K.D.

CLIENT FILE No.: 811/20

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THE REGIONAL MUNICIPALITY OF DURHAM

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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

FOUNDATION PLAN

| | | |
|-------------------------------|-----------------------|--|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 200 | SHEET NO. |

MAIN FLOOR SLAB PLAN - GENERAL NOTES

- NOTES:
- TOP OF MAIN FLOOR SLAB ON GRADE (H.P.) IS AT EL. 0.00m, UNLESS NOTED AS PER SYMBOL LEGEND.
 - SCHEDULES AND LEGENDS IN REGARDS TO SLAB ON GRADE PLANS ARE TO BE READ IN CONJUNCTION WITH DRAWING _____.
 - TOP OF PIERS ARE 200mm BELOW TOP OF MAIN FLOOR DATUM, UNLESS NOTED AS PER SYMBOL LEGEND.

SLAB PLAN SYMBOL LEGEND

- SC DENOTES TYPICAL SAW CUT
- W DENOTES OFFSET OF TOP OF PIER FROM TOP OF SLAB ON GRADE REFERENCE.
- TYPICAL 200mm DROP IN FOUNDATION WALL AT MANDOR OPENING
- TYPICAL 300mm DROP IN FOUNDATION WALL AT OH DOOR OPENING

STRUCTURAL NON-LOAD BEARING MASONRY WALL SCHEDULE

| TYPE MARK | BLOCK WIDTH | USE | REINFORCING |
|-----------|-------------|-----------|-------------|
| MW-190 | 190 | PARTITION | 15M@1200 V. |
| MW-240 | 240 | | 15M@1000 V. |
| MW-290 | 290 | | 15M@800 V. |

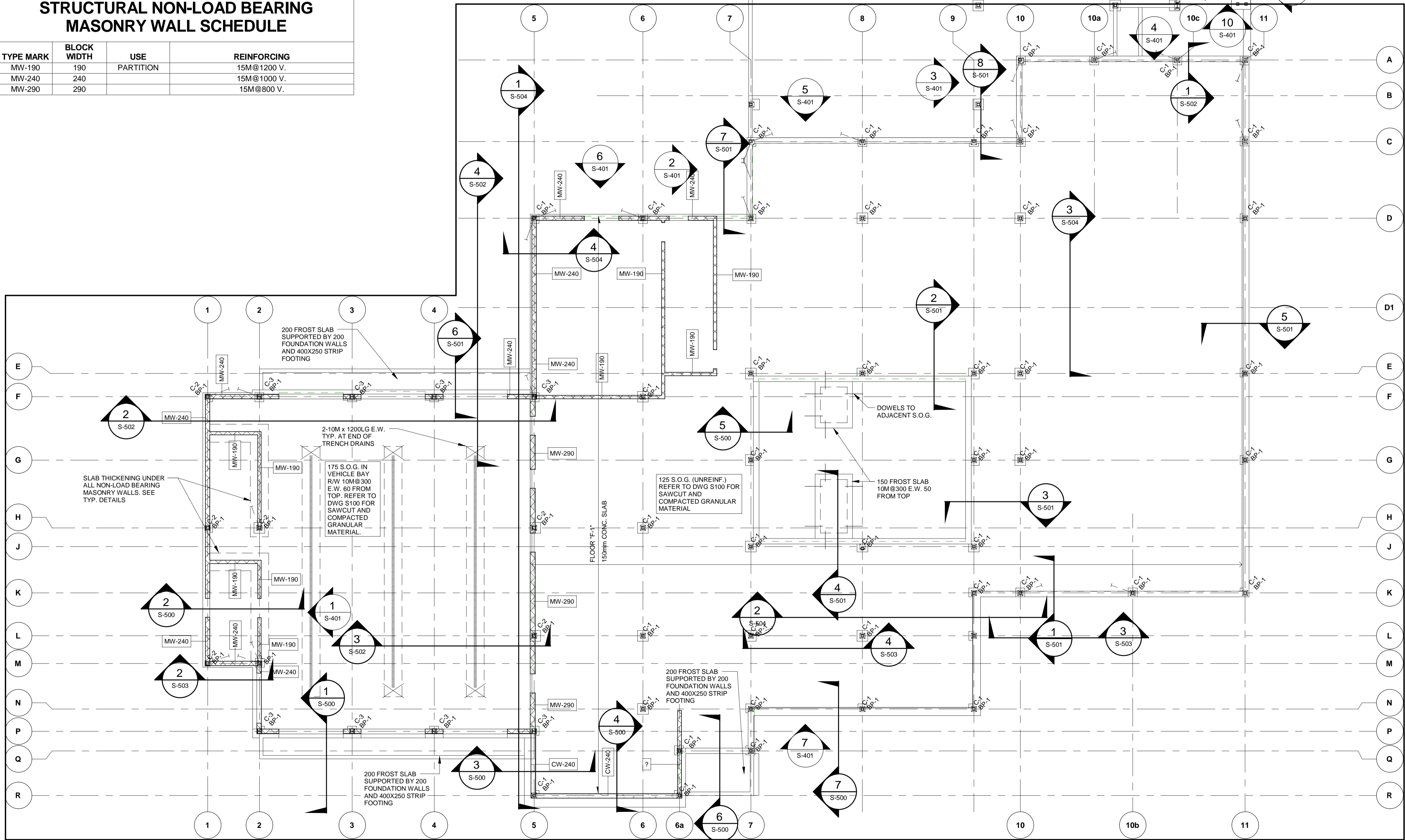
STRUCTURAL COLUMN SCHEDULE - PHASE 1

| TYPE MARK | SECTION DESCRIPTION | REMARKS |
|-----------|---------------------|---------|
| C-1 | HS152x152x6.4 | |
| C-2 | HS178x178x6.4 | |
| C-3 | W200x59 | |
| C-4 | W310x52 | |

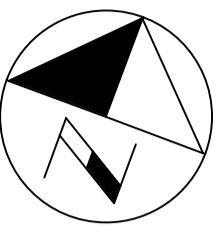
STRUCTURAL BASEPLATE SCHEDULE - PHASE 1

| Type Mark | PLATE DIMENSIONS (mm) | | | ANCHOR DIMENSIONS | | | | | ANCHOR BOLT DESCRIPTION |
|-----------|-----------------------|------------|-----------------|-------------------|------|-----------------|-------------------------|-------------|------------------------------------|
| | WIDTH (B) | LENGTH (H) | PLATE THICKNESS | BASEPLATE TYPE | QTY. | MIN. EMBED (mm) | ANCHOR BOLT HOLE Ø (mm) | ANCHOR TYPE | |
| BP-1 | 300 | 300 | 20 | A | 4 | 400 | 19 | TYPE 'A' | ASTM 307 ANCHORS w/ NUT AND WASHER |
| BP-2 | 500 | 300 | 20 | B | 4 | 600 | 19 | TYPE 'B' | ASTM 307 ANCHORS w/ NUT AND WASHER |

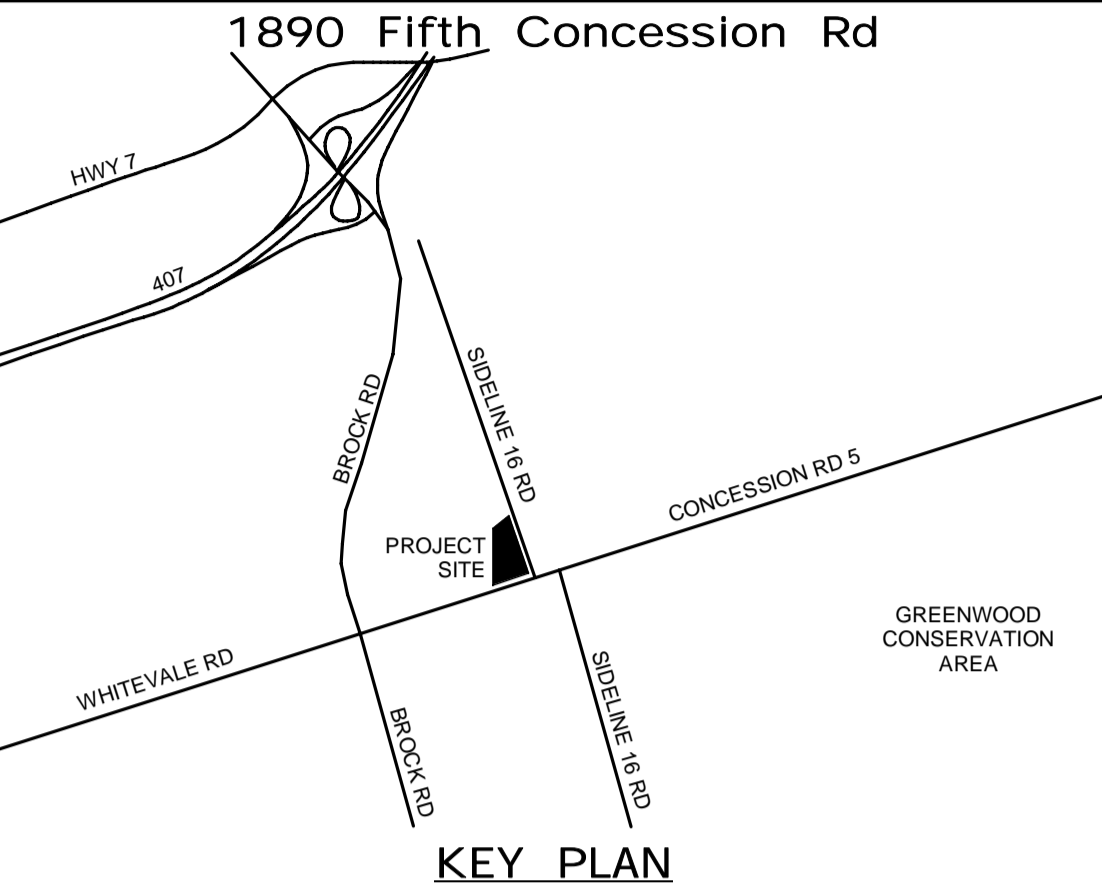
SEE DWG 200.1 FOR PHASE 2



2 SLAB ON GRADE PLAN
S-401 S-201 1 : 125



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100055126
Mar. 22/2022
PROVINCE OF ONTARIO

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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

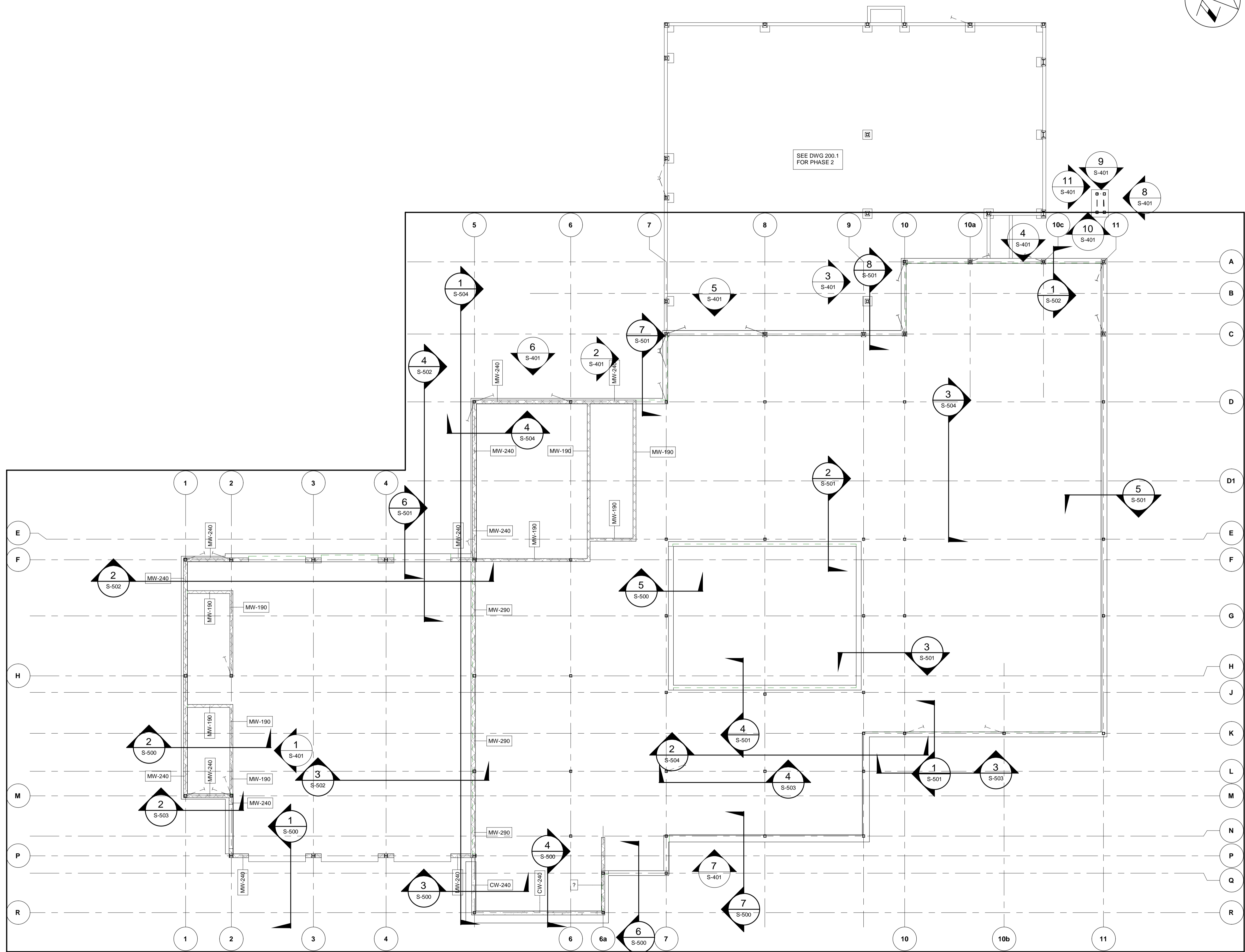
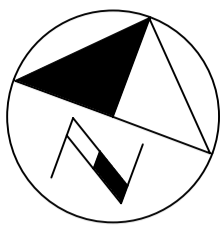
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

FLOOR SLAB PLAN

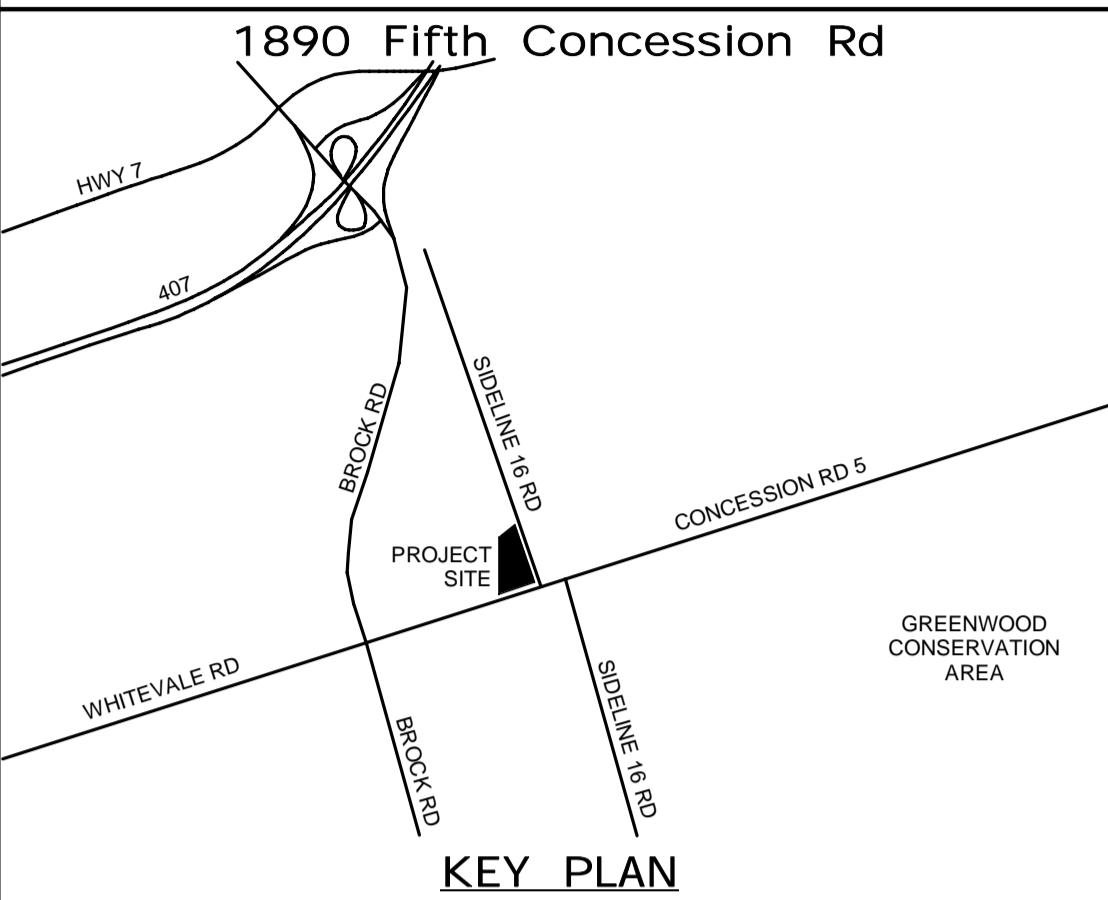
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 201 | SHEET NO. |

BIM 300/JBP-AMER (CAN) 60611569-Station RDP5-S.rvt



1 MASONRY LINTEL PLAN - MAIN FLOOR
1 : 125

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NEW PARAMEDICS STATION - SEATON

MASONRY LINTEL PLAN

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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 202 | SHEET NO. |

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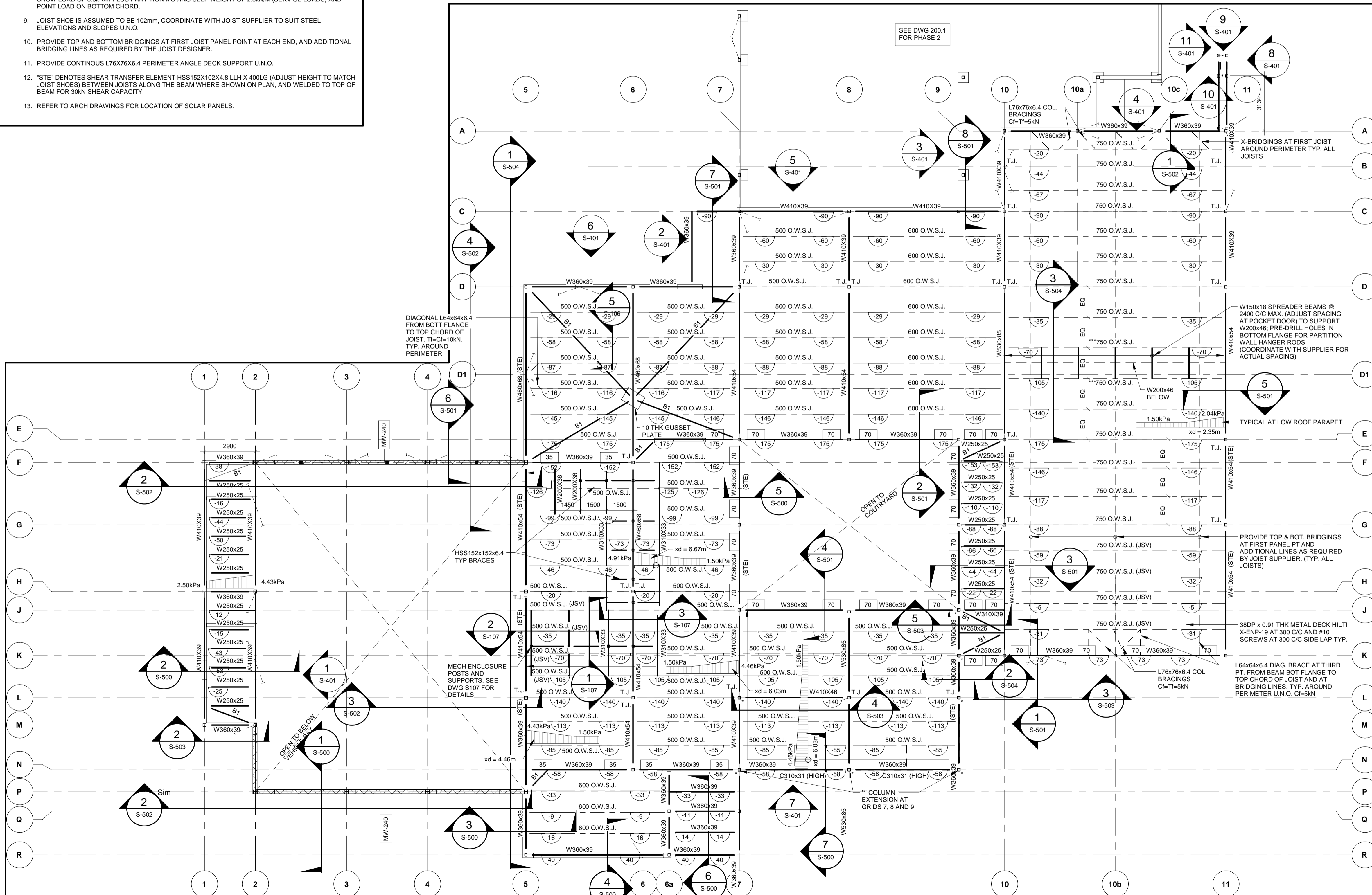
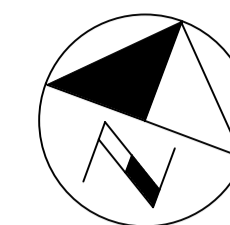
OFFICE ROOF FRAMING PLAN - GENERAL NOTES

NOTES:

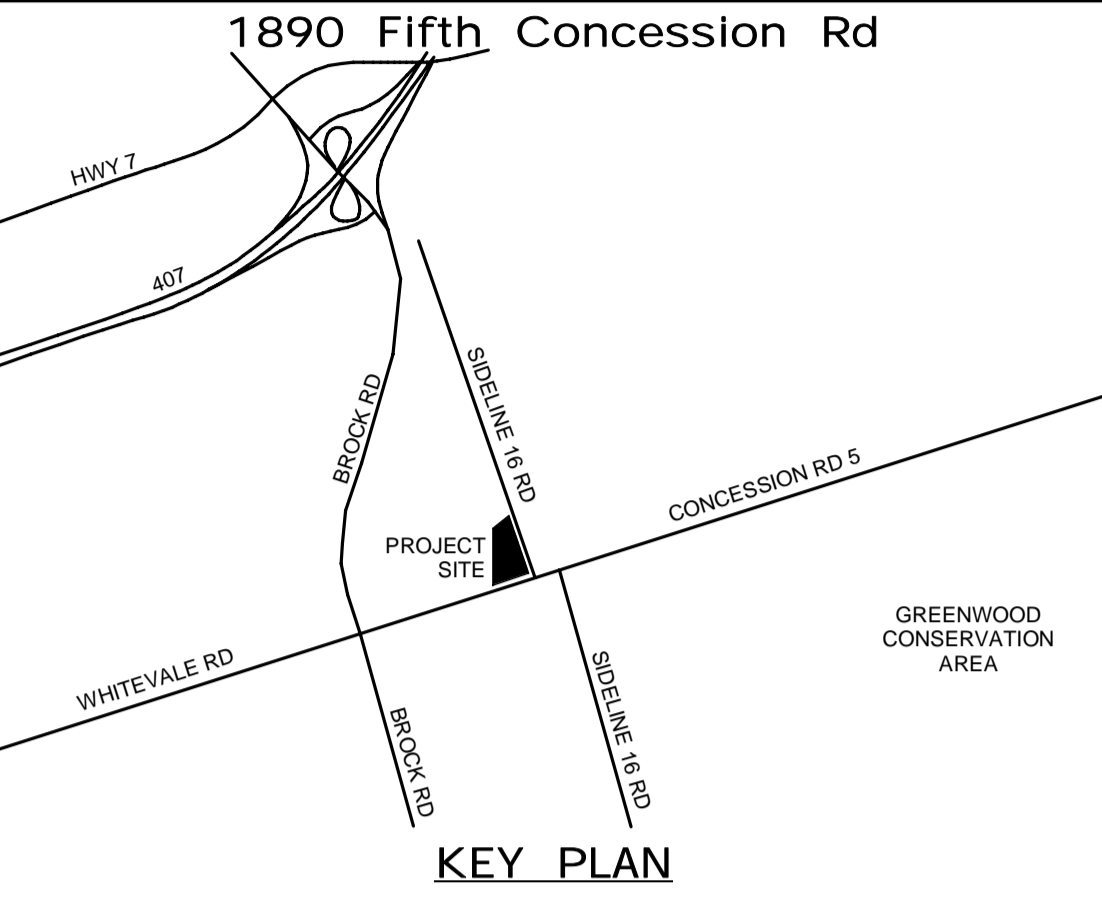
- TOP OF STEEL FOR ROOF FRAMING IS AT REFERENCE DATUM **EL. 4400 = 0.0**, UNLESS NOTED AS PER SYMBOL LEGEND. REFER TO ARCH DRAWINGS FOR ROOF SLOPES.
- SCHEDULES AND LEGENDS IN REGARDS TO ROOF FRAMING PLANS ARE TO BE READ IN CONJUNCTION WITH DRAWING ____.
- UNDERSIDE OF DECK IS AT SAME LEVEL AS TOP OF STEEL, UNLESS NOTED AS PER SYMBOL LEGEND.
- INTERMEDIATE BEAMS AND/OR OWSJs ARE TO BE EVENLY SPACED BETWEEN GRID LINE MEMBERS, UNLESS NOTED OTHERWISE.
- MEMBER FORCES, WHERE SHOWN, ARE FACTORED FORCES IN kN, UNLESS NOTED OTHERWISE.
- ** DENOTES JOIST TO BE DESIGNED FOR LIVE LOAD DEFLECTION OF SPAN/720.
- B1 DENOTES 2L-102X102X8.0, C1 = T1 = 100kN U.N.O.
- *** EXTEND JOIST BOTTOM CHORD AT EACH END FOR FOLDING PARTITION SUPPORTING STEEL. DESIGN JOISTS FOR MAX. DEFLECTION OF 25mm (TO BE CONFIRMED BY SUPPLIER) FOR ROOF D.L. + SNOW LOAD OF 6.8kN/m PLUS PARTITION MOVING SELF WEIGHT OF 2.0kN/m (SERVICE LOADS) AND POINT LOAD ON BOTTOM CHORD.
- JOIST SHOE IS ASSUMED TO BE 102mm, COORDINATE WITH JOIST SUPPLIER TO SUIT STEEL ELEVATIONS AND SLOPES U.N.O.
- PROVIDE TOP AND BOTTOM BRIDGINGS AT FIRST JOIST PANEL POINT AT EACH END, AND ADDITIONAL BRIDGING LINES AS REQUIRED BY THE JOIST DESIGNER.
- PROVIDE CONTINUOUS L76X76X6.4 PERIMETER ANGLE DECK SUPPORT U.N.O.
- "STE" DENOTES SHEAR TRANSFER ELEMENT HSS152X102X4.8 LLH X 400LG (ADJUST HEIGHT TO MATCH JOIST SHOES) BETWEEN JOISTS ALONG THE BEAM WHERE SHOWN ON PLAN, AND WELDED TO TOP OF BEAM FOR 30kN SHEAR CAPACITY.
- REFER TO ARCH DRAWINGS FOR LOCATION OF SOLAR PANELS.

ROOF FRAMING PLAN SYMBOL LEGEND

| | | | |
|---|--|-----------------------------|---|
| XXX | TOP OF STEEL OFFSET FROM REFERENCE DATUM REFER TO GENERAL PLAN NOTES FOR DATUM ELEVATION. | FLOOR / ROOF DESCRIPTION | FLOOR / ROOF TYPE EXTENT AND SPAN DIRECTION REFER TO ASSEMBLY LEGEND. |
| MOMENT CONNECTION (FORCES SHOWN MI, VI) | | | |
| FMC | FULL MOMENT CONNECTION | RA | ROOF ANCHOR LOCATION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS |
| VERTICAL BRACING REFER TO FRAMING ELEVATIONS | | T.J. | TIE JOIST BOTTOM CHORD CONNECTED TO COLUMN |
| DESIGN CONNECTION FOR FACTORED AXIAL FORCE TI, CI (kN) | | JSV | DENOTES JOIST SHOE HEIGHT VARIES |



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NEW PARAMEDICS STATION - SEATON

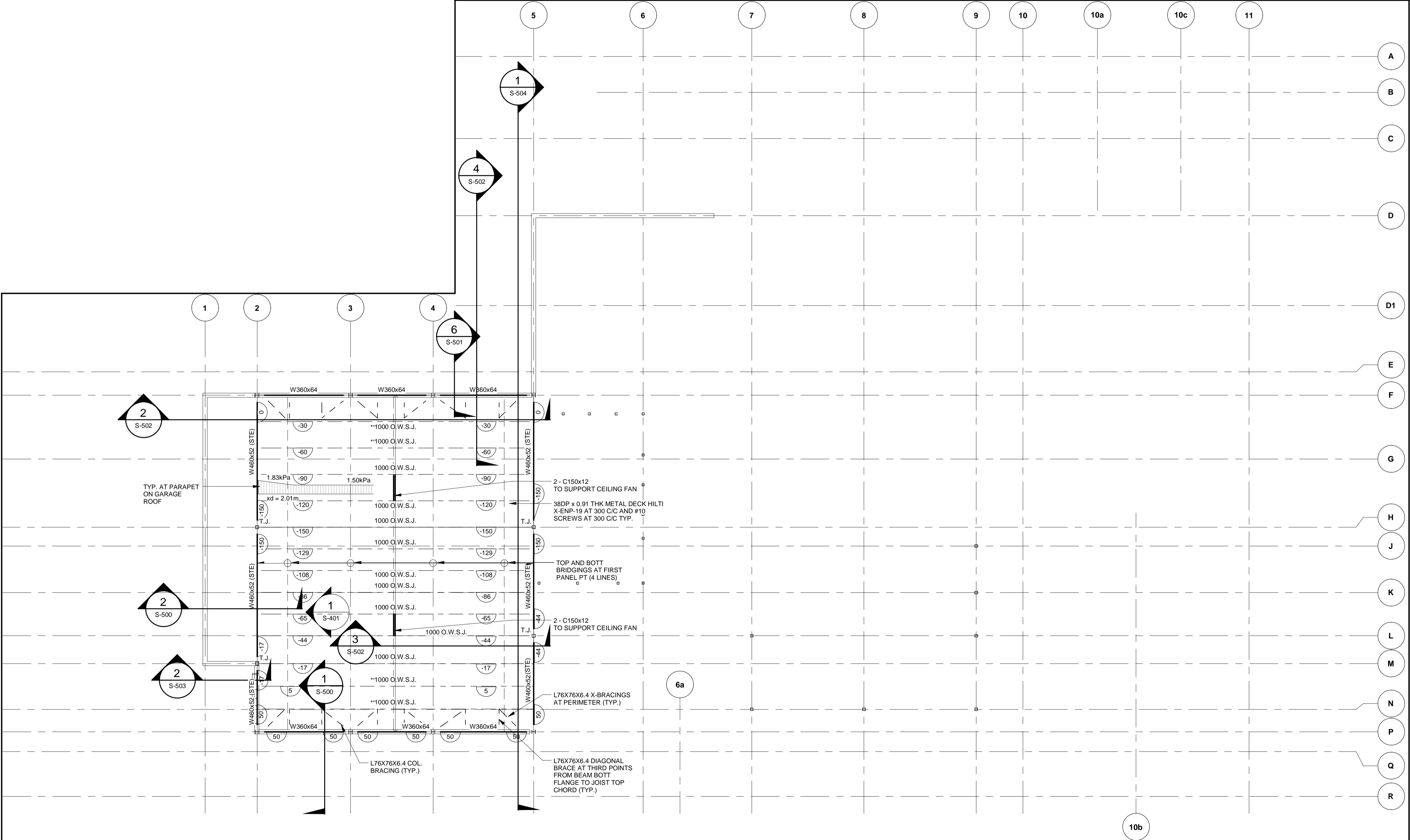
ROOF FRAMING PLAN - VEHICLE BAY

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- ### VEHICLE BAY ROOF FRAMING PLAN - GENERAL NOTES
- NOTES:**
- TOP OF STEEL FOR ROOF FRAMING IS AT REFERENCE DATUM **EL. 6400 = 0.0**, UNLESS NOTED AS PER SYMBOL LEGEND. REFER TO ARCH DRAWINGS FOR ROOF SLOPES.
 - SCHEDULES AND LEGENDS IN REGARDS TO ROOF FRAMING PLANS ARE TO BE READ IN CONJUNCTION WITH SECTIONS AND DETAILS.
 - UNDERSIDE OF DECK IS AT SAME LEVEL AS TOP OF STEEL, UNLESS NOTED AS PER SYMBOL LEGEND.
 - INTERMEDIATE BEAMS AND/OR OWSJs ARE TO BE EVENLY SPACED BETWEEN GRID LINE MEMBERS, UNLESS NOTED OTHERWISE.
 - MEMBER FORCES, WHERE SHOWN, ARE FACTORED FORCES IN kN, UNLESS NOTED OTHERWISE.
 - ** DENOTES JOISTS TO BE DESIGNED FOR LIVE LOAD DEFLECTION OF SPAN /720.
 - *STE* DENOTES SHEAR TRANSFER ELEMENT HSS152X102X4.8 LLV X 400LG (ADJUST HEIGHT TO MATCH JOIST SHOES) BETWEEN JOISTS ALONG THE BEAM WHERE SHOWN ON PLAN, AND WELDED TO TOP OF BEAM FOR 30kN SHEAR CAPACITY.

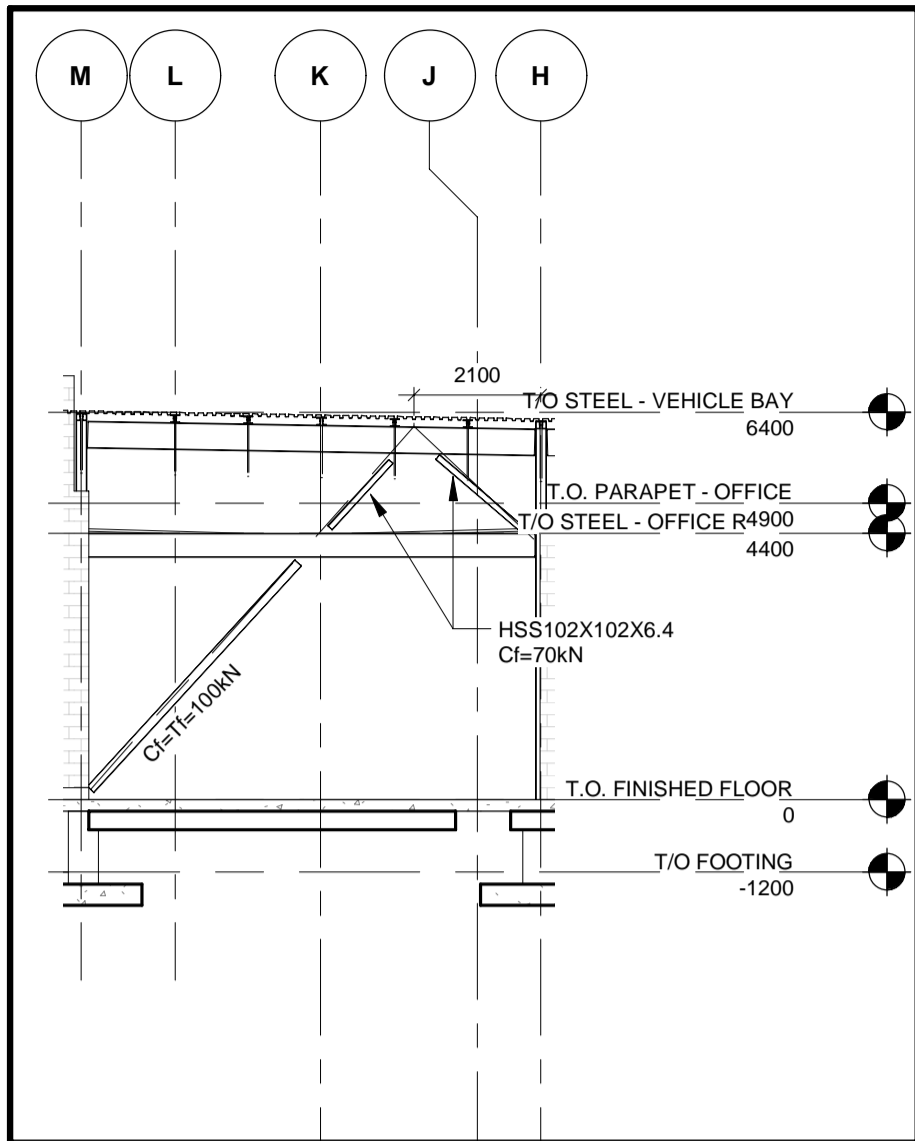
ROOF FRAMING PLAN SYMBOL LEGEND

| | | | |
|---|--|-----------------------------|--|
| XXX | TOP OF STEEL OFFSET FROM REFERENCE DATUM REFER TO GENERAL PLAN NOTES FOR DATUM ELEVATION. | FLOOR / ROOF DESCRIPTION | FLOOR / ROOF TYPE EXTENT AND SPAN DIRECTION REFER TO ASSEMBLY LEGEND. |
| MOMENT CONNECTION (FORCES SHOWN M, V) | | | |
| FMC | FULL MOMENT CONNECTION | | |
| VERTICAL BRACING REFER TO FRAMING ELEVATIONS | | T.J. | TIE JOIST BOTTOM CHORD CONNECTED TO COLUMN |
| 70 | DESIGN CONNECTION FOR FACTORED AXIAL FORCE Tt, Ct (kN) | JSV | DENOTES JOIST SHOE HEIGHT VARIES |

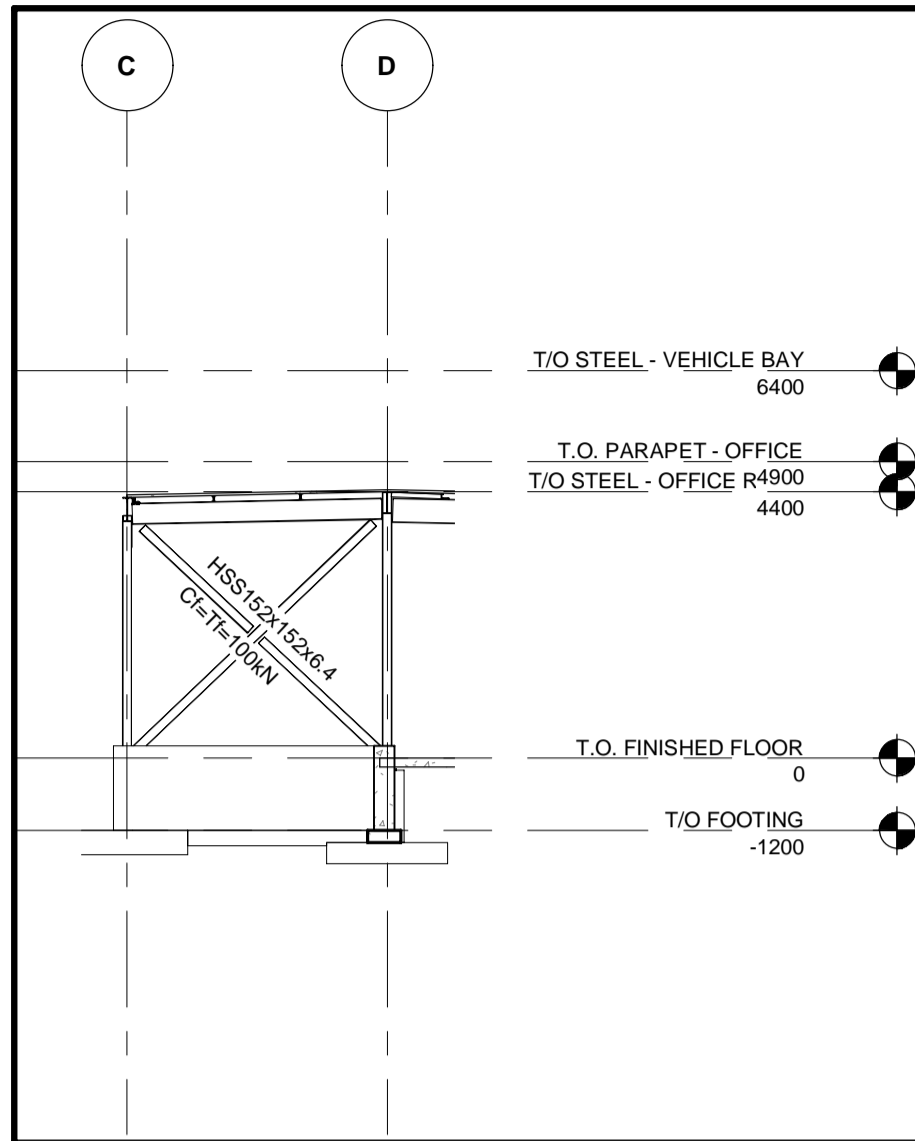


1 FRAMING PLAN - VEHICLE BAY ROOF
S-401 S-204 1 : 125

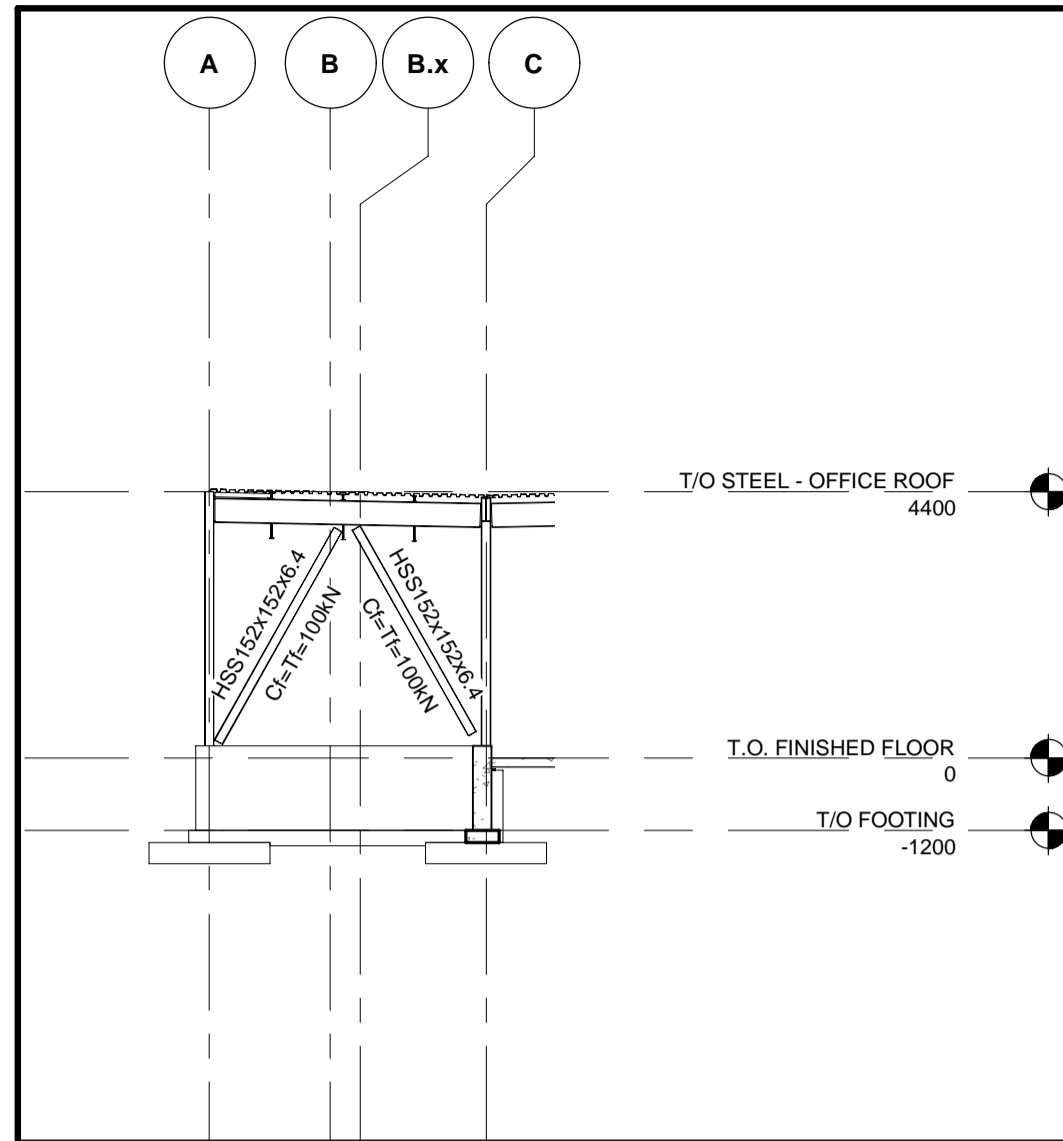
BIM 300/JBP-AMER (CAN) 60611569-SEaton RDFS-S.rvt



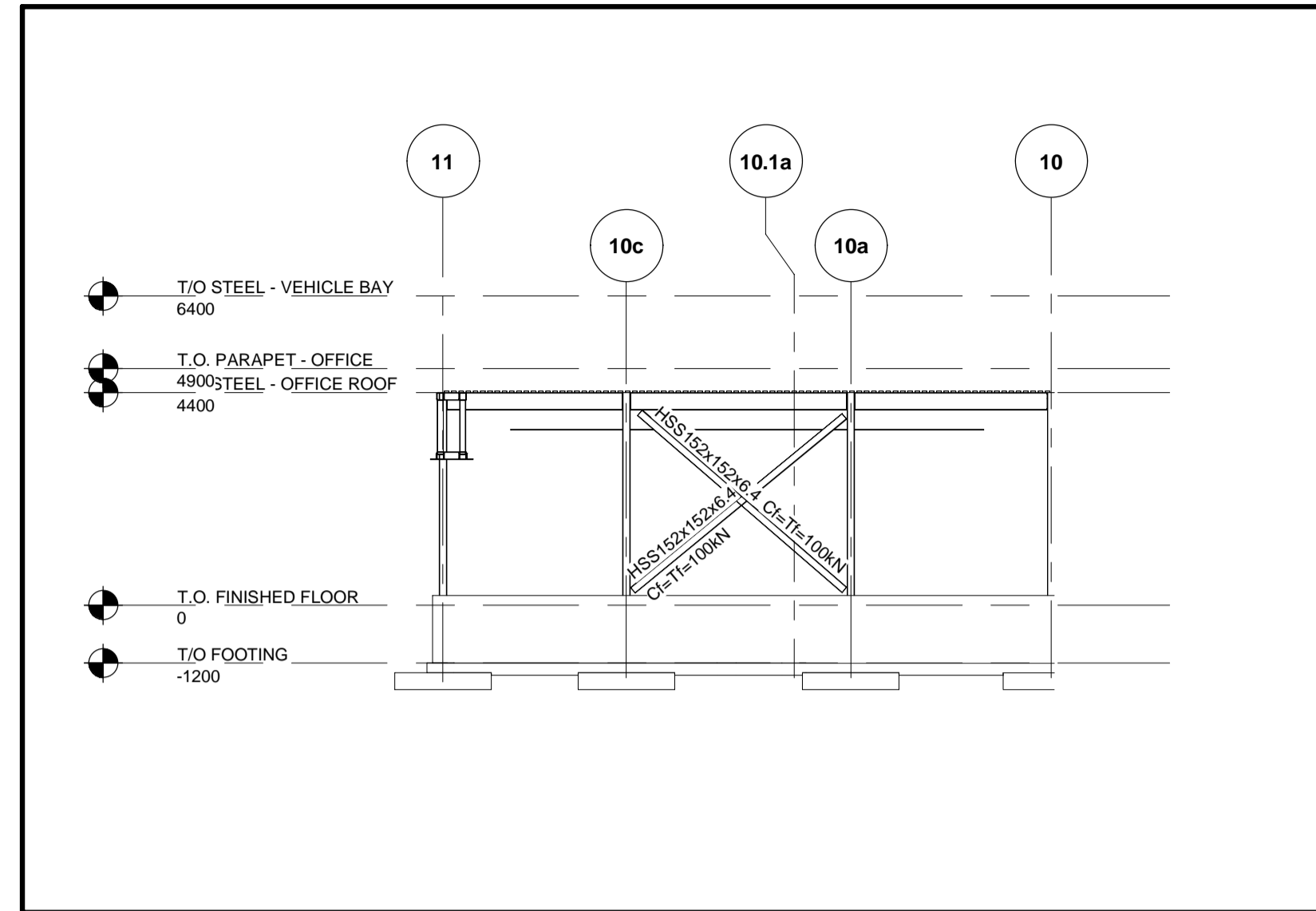
1 FRAMING ELEVATION - GRID '2'
(LOOKING EAST)
S-201 S-401 1 : 125



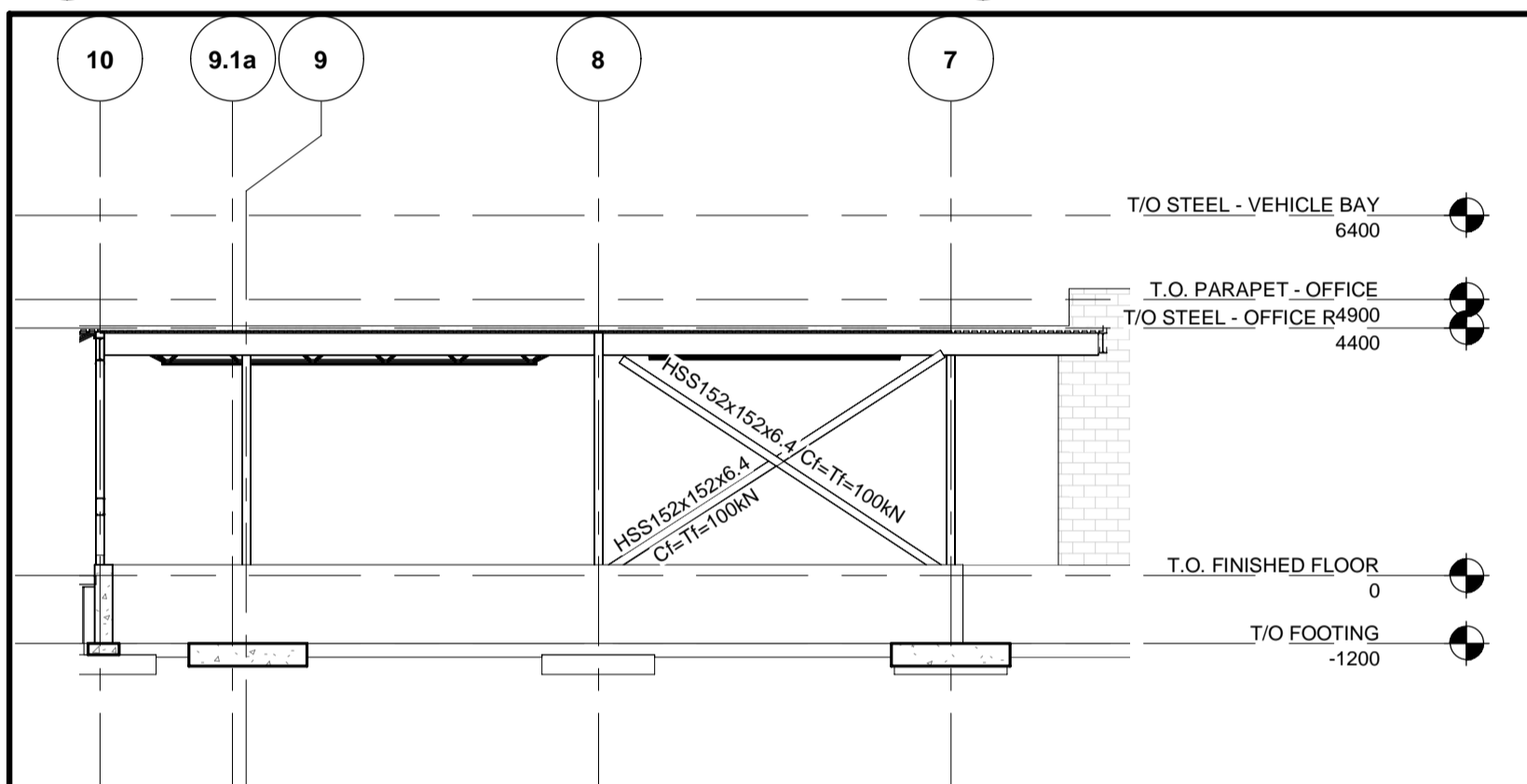
2 FRAMING ELEVATION - GRID '7'
(LOOKING EAST)
S-201 S-401 1 : 125



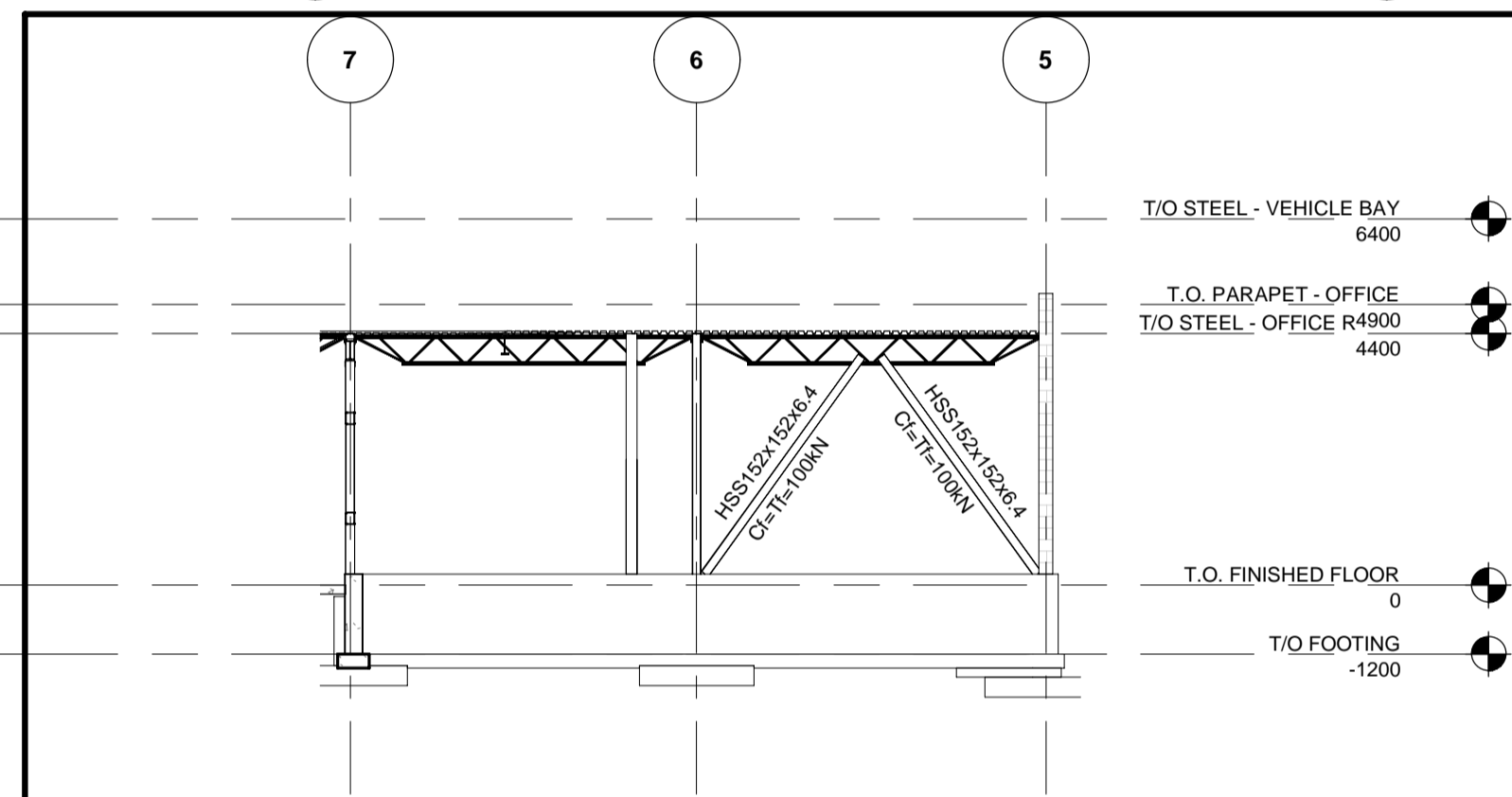
3 FRAMING ELEVATION - GRID '10'
(LOOKING EAST)
S-201 S-401 1 : 125



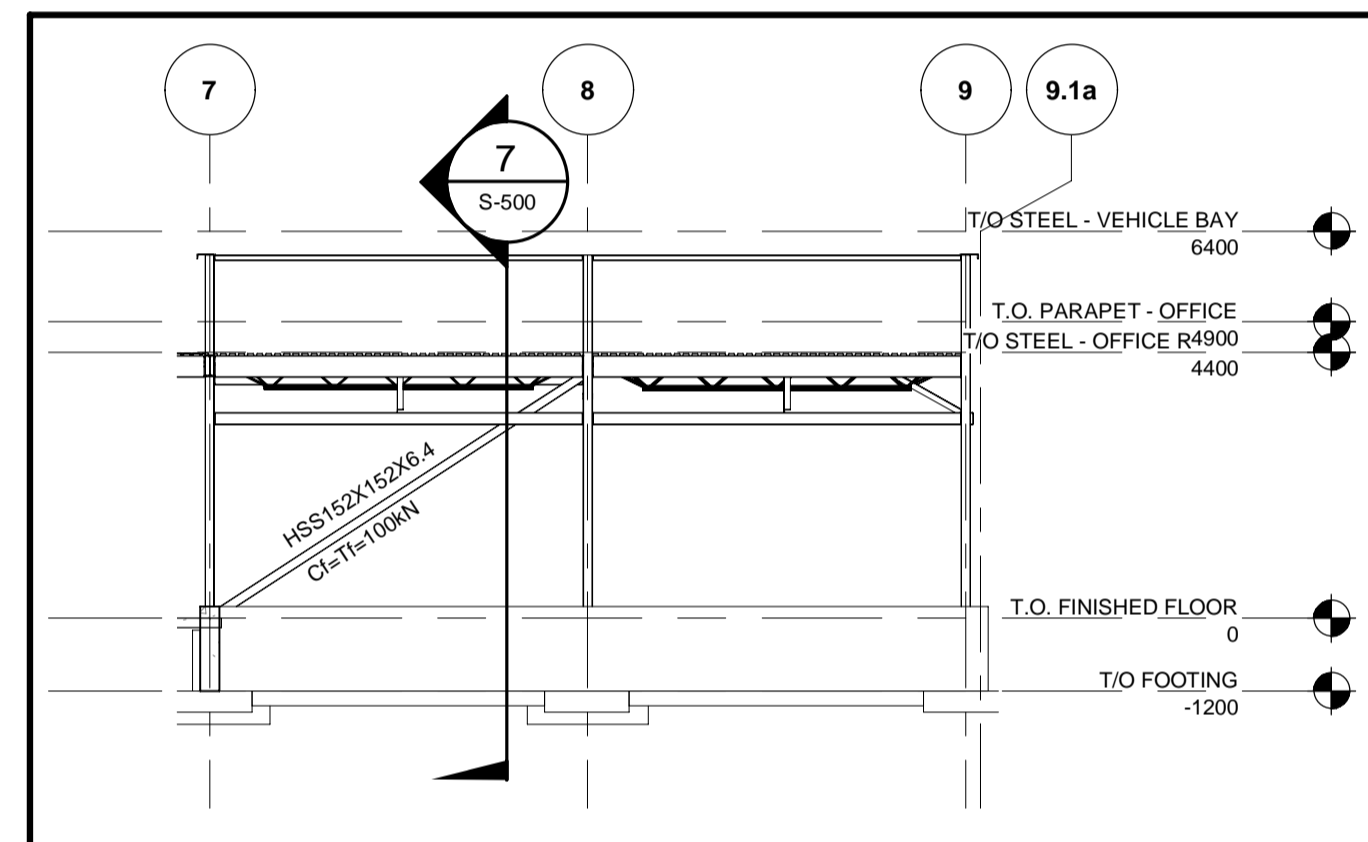
4 FRAMING ELEVATION - GRID 'A'
(LOOKING SOUTH)
S-201 S-401 1 : 125



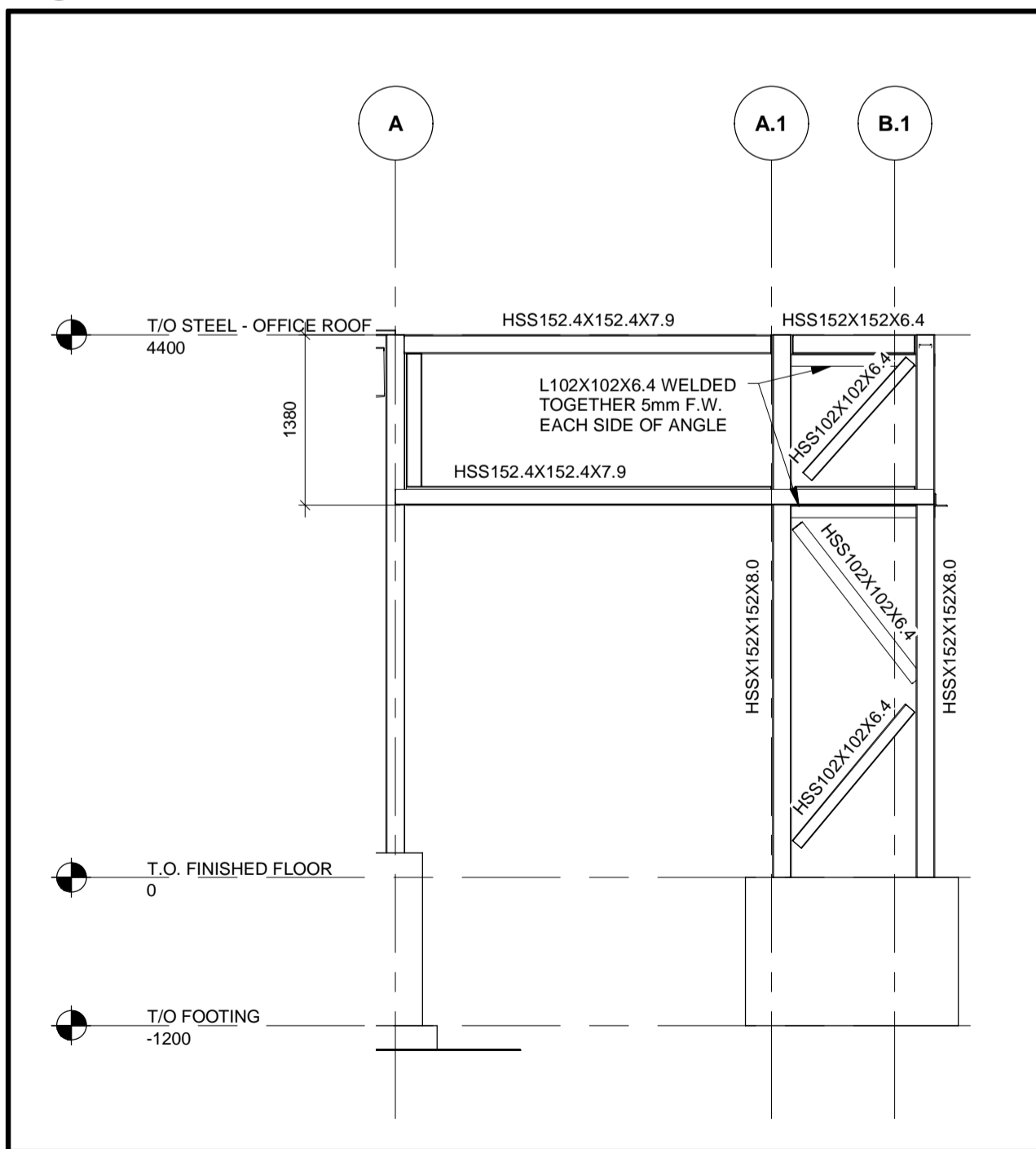
5 FRAMING ELEVATION - GRID 'C'
(LOOKING SOUTH)
S-201 S-401 1 : 125



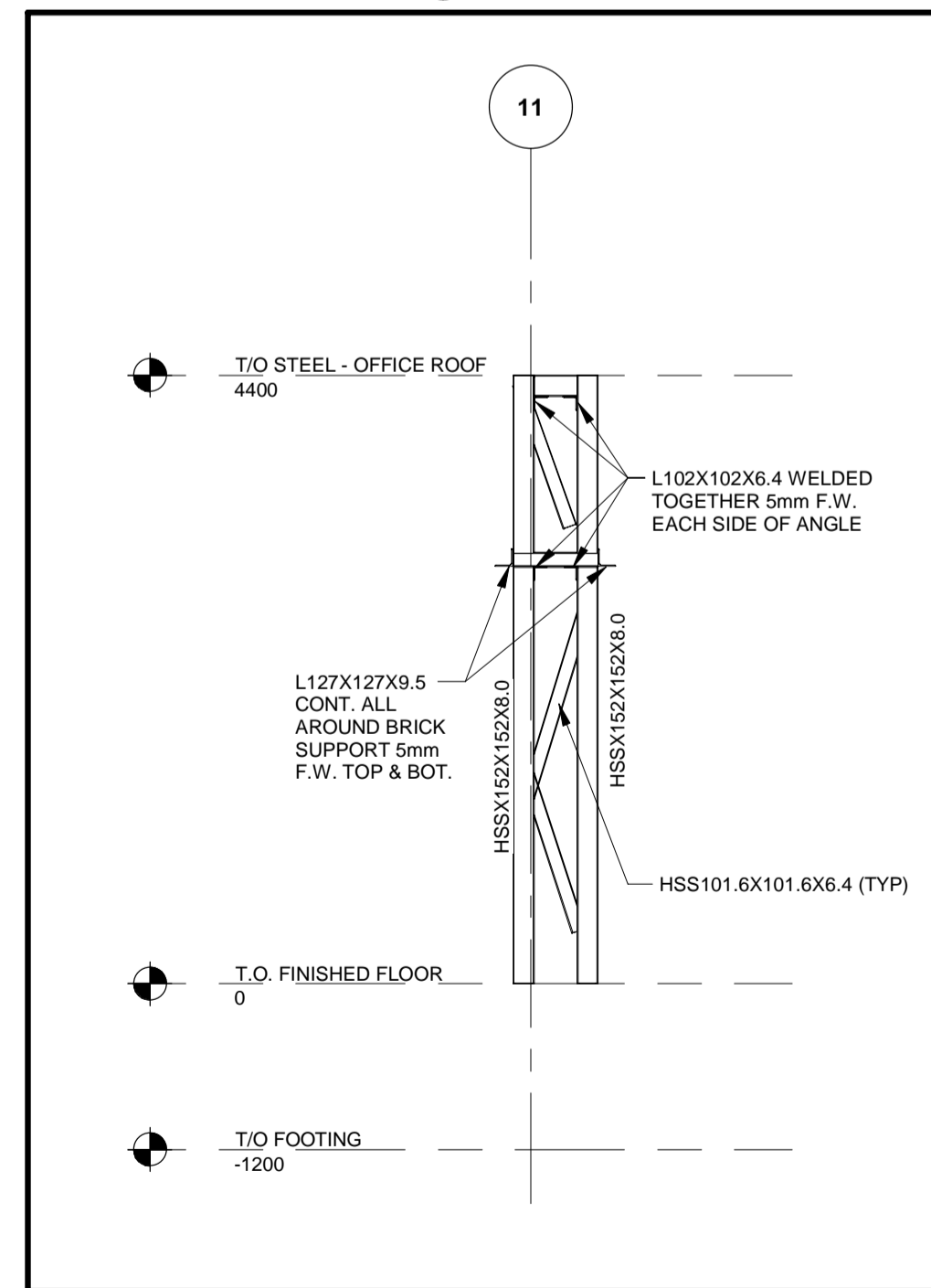
6 FRAMING ELEVATION - GRID 'D'
(LOOKING SOUTH)
S-201 S-401 1 : 125



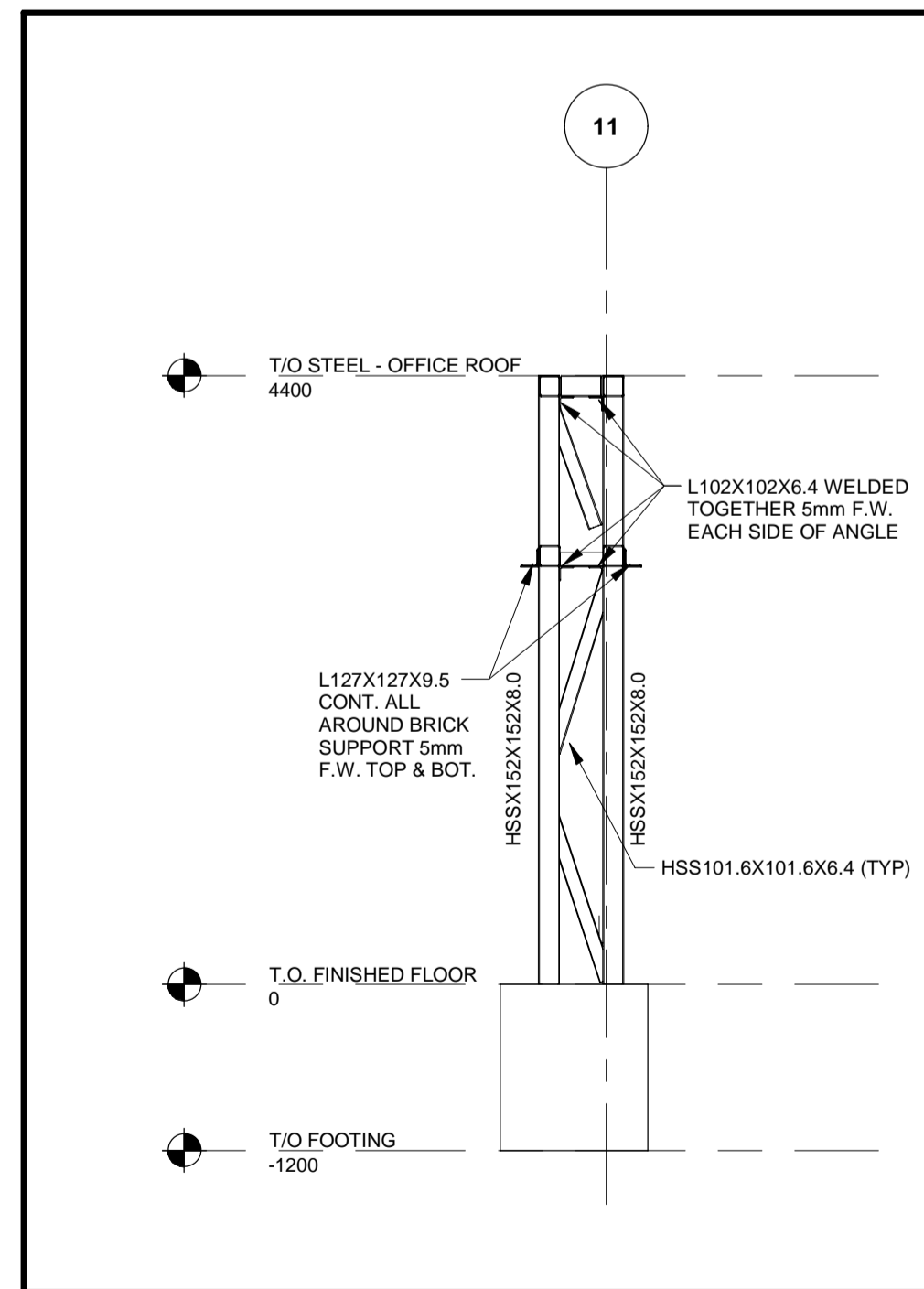
7 FRAMING ELEVATION - GRID 'L'
(LOOKING NORTH)
S-201 S-401 1 : 125



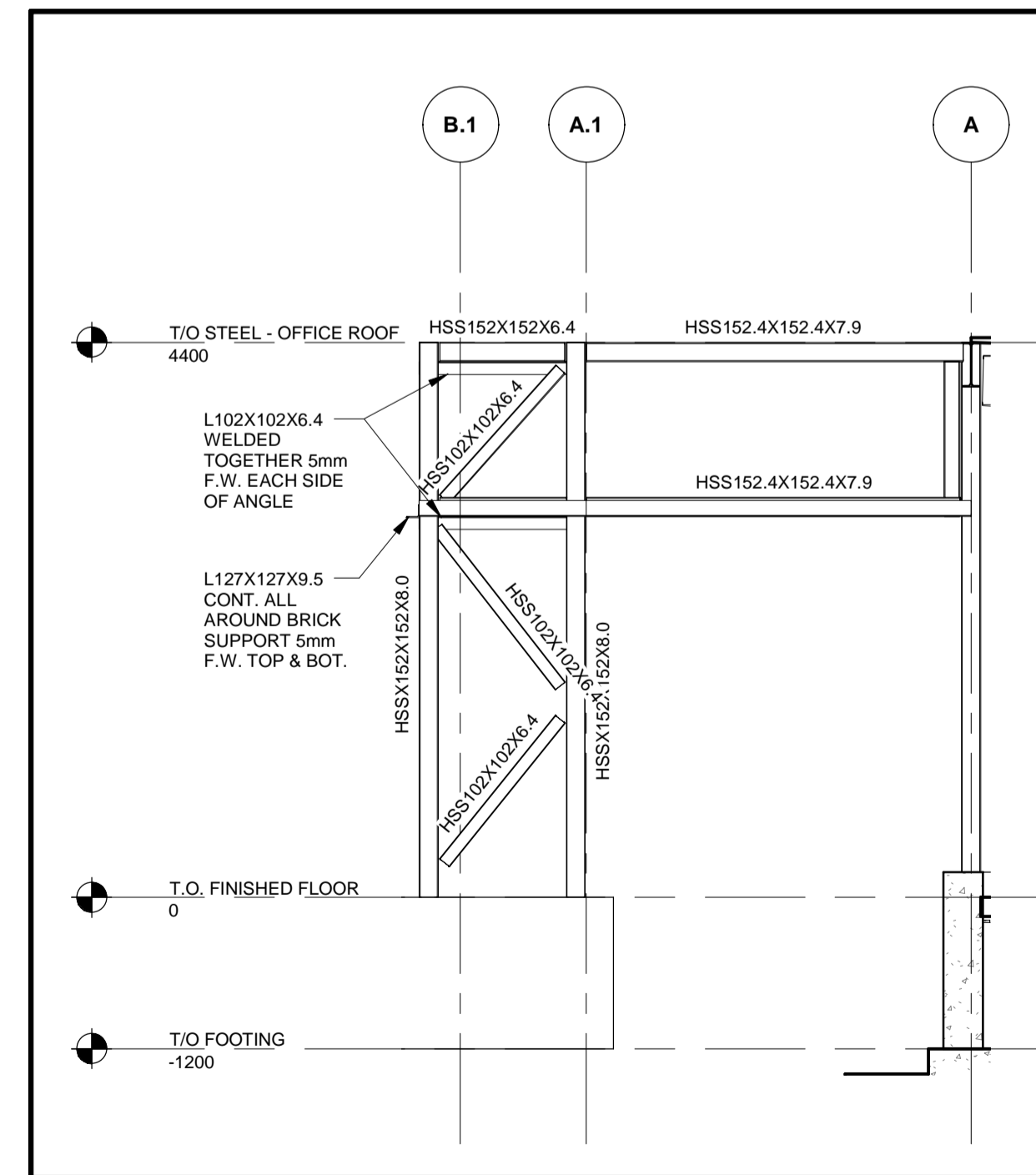
8 PORTAL FRAMING ELEVATION WEST
S-201 S-401 1 : 50



9 PORTAL FRAMING ELEVATION SOUTH
S-201 S-401 1 : 50

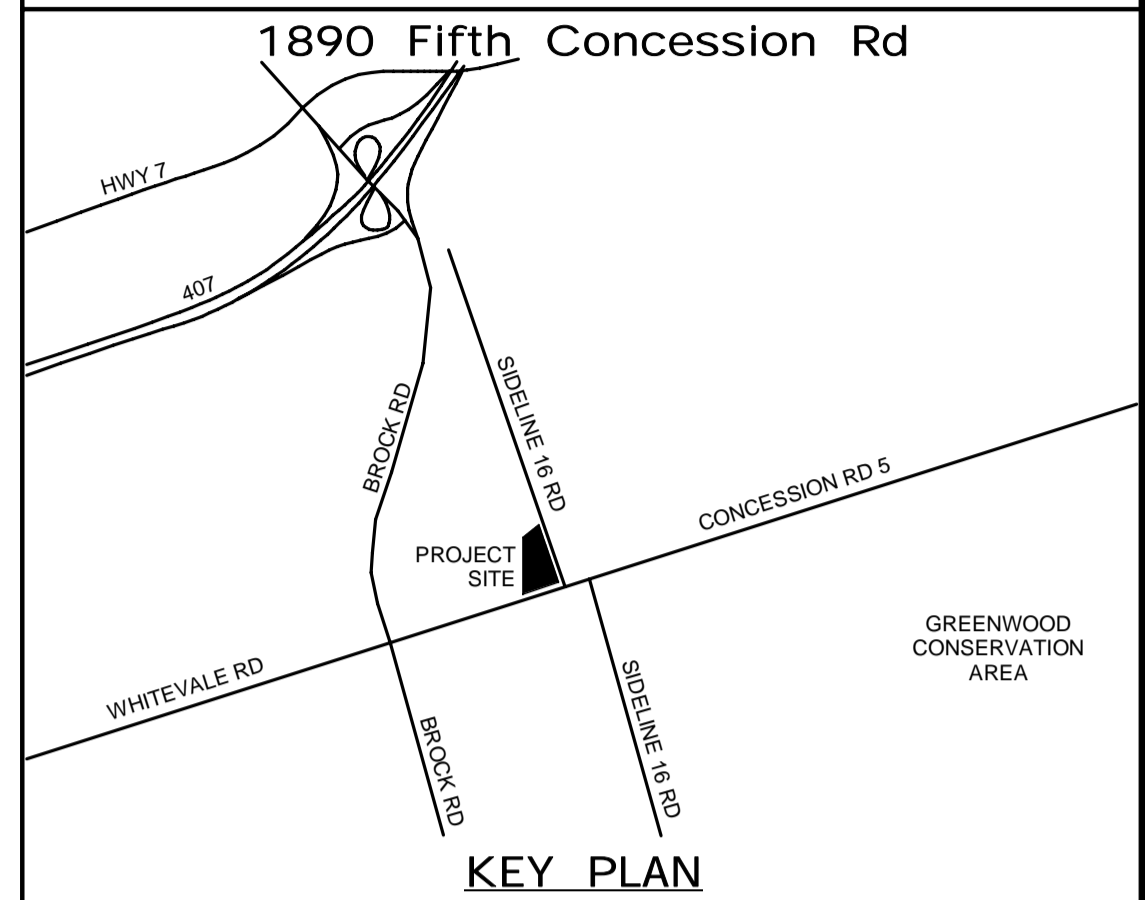


10 PORTAL FRAMING ELEVATION NORTH
S-201 S-401 1 : 50



11 PORTAL FRAMING ELEVATION EAST
S-201 S-401 1 : 50

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



| NO. | DATE | NAME | REVISIONS |
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| PRIME CONSULTANT | | |
| <p>AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p> | | |
| SUB CONSULTANT | | |

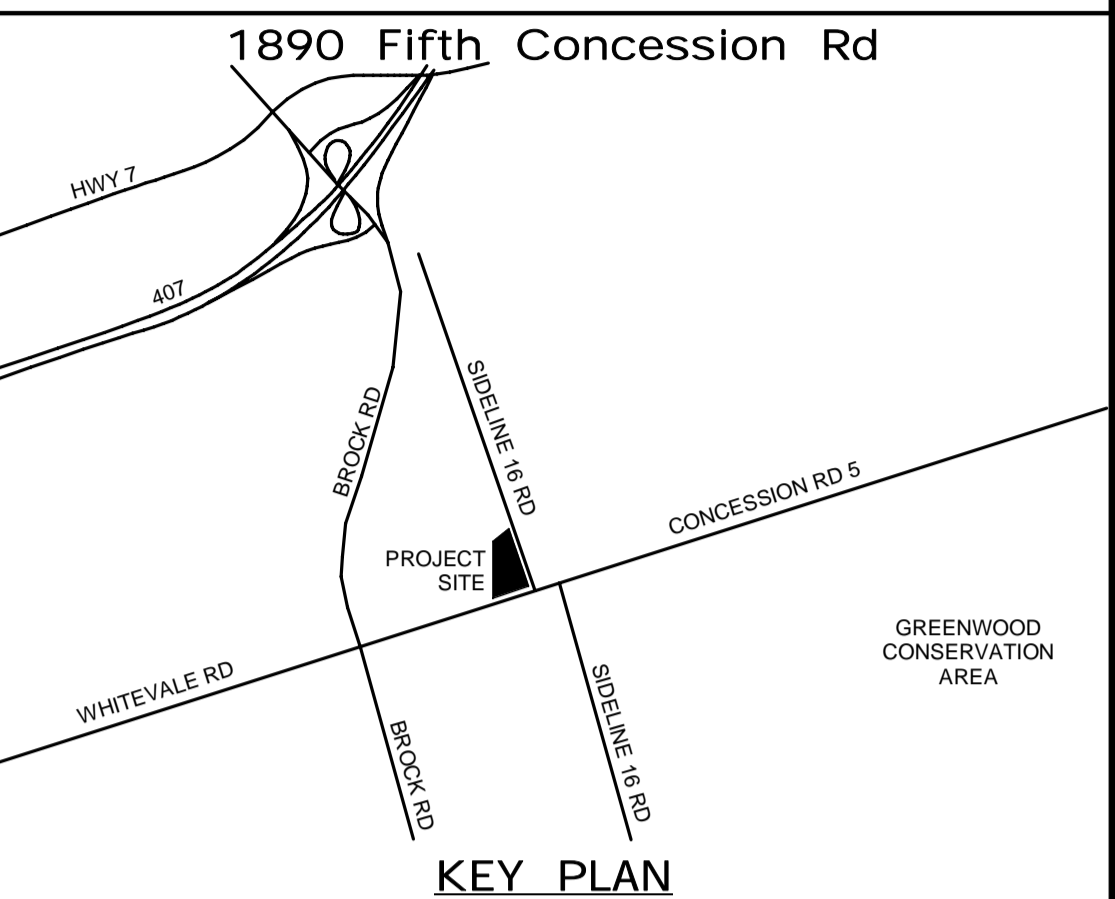
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| DESIGN BY: D.S. | SCALE: As Indicated |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

| NO | DATE | NAME | REVISIONS |
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| | THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT DESIGN, CONSTRUCTION & ASSET MANAGEMENT | |
| | NEW PARAMEDICS STATION - SEATON | |
| | FRAMING ELEVATIONS | |

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 401 | SHEET NO. |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



| CONSULTANT REVISIONS | | | |
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www.aecom.com

LICENSED PROFESSIONAL ENGINEER
K.T.D. DUNG
100055126
Mar. 22/2022
PROVINCE OF ONTARIO

SUB CONSULTANT

| | |
|-------------------|---------------------------------|
| DESIGN BY: D.S. | SCALE: 1 : 50 |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

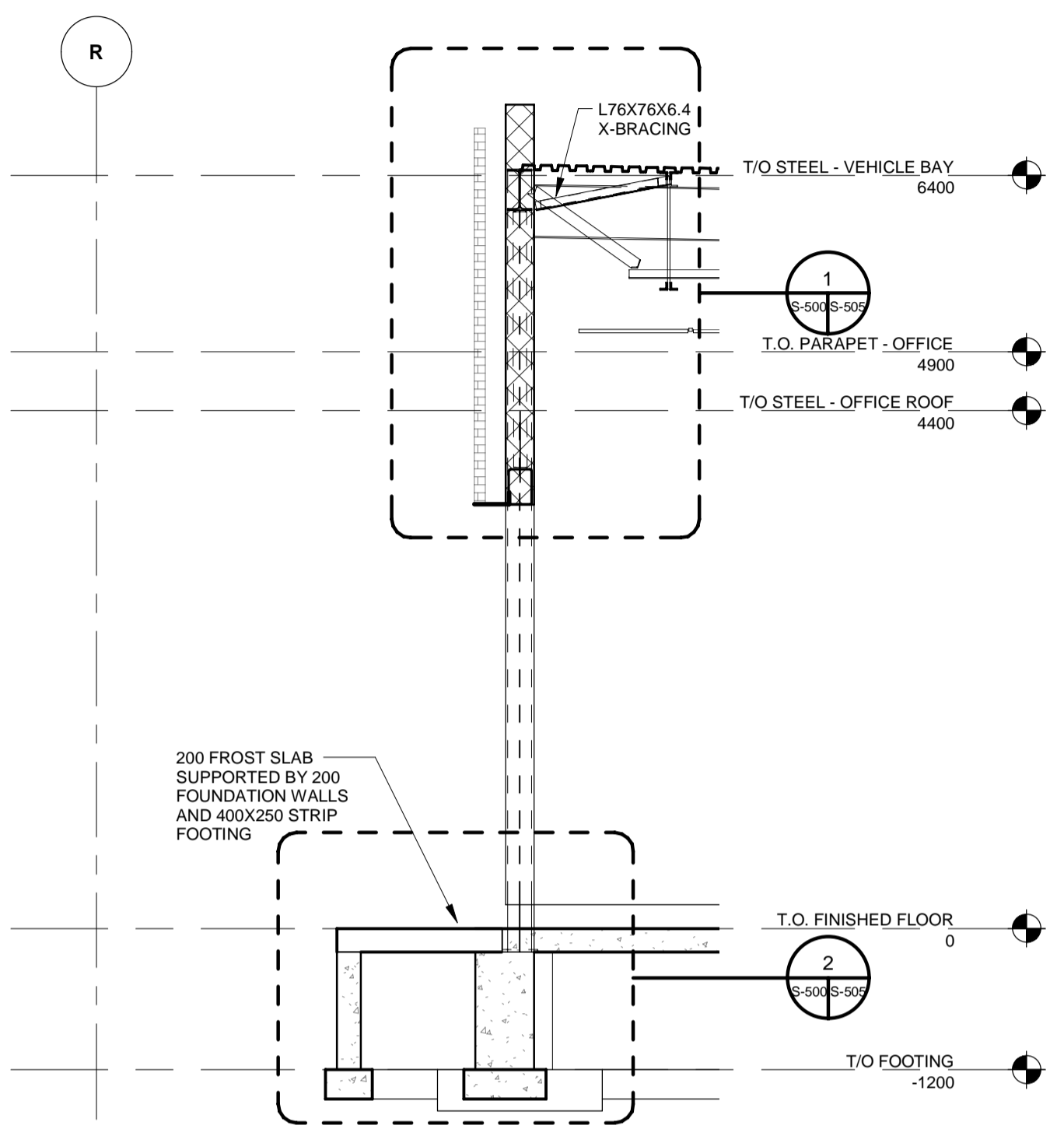
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|--------------------|----------|------|---------------------------|
| NO | DATE | NAME | REVISIONS |
| 3 | 03/22/22 | | ISSUED FOR CONSTRUCTION |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

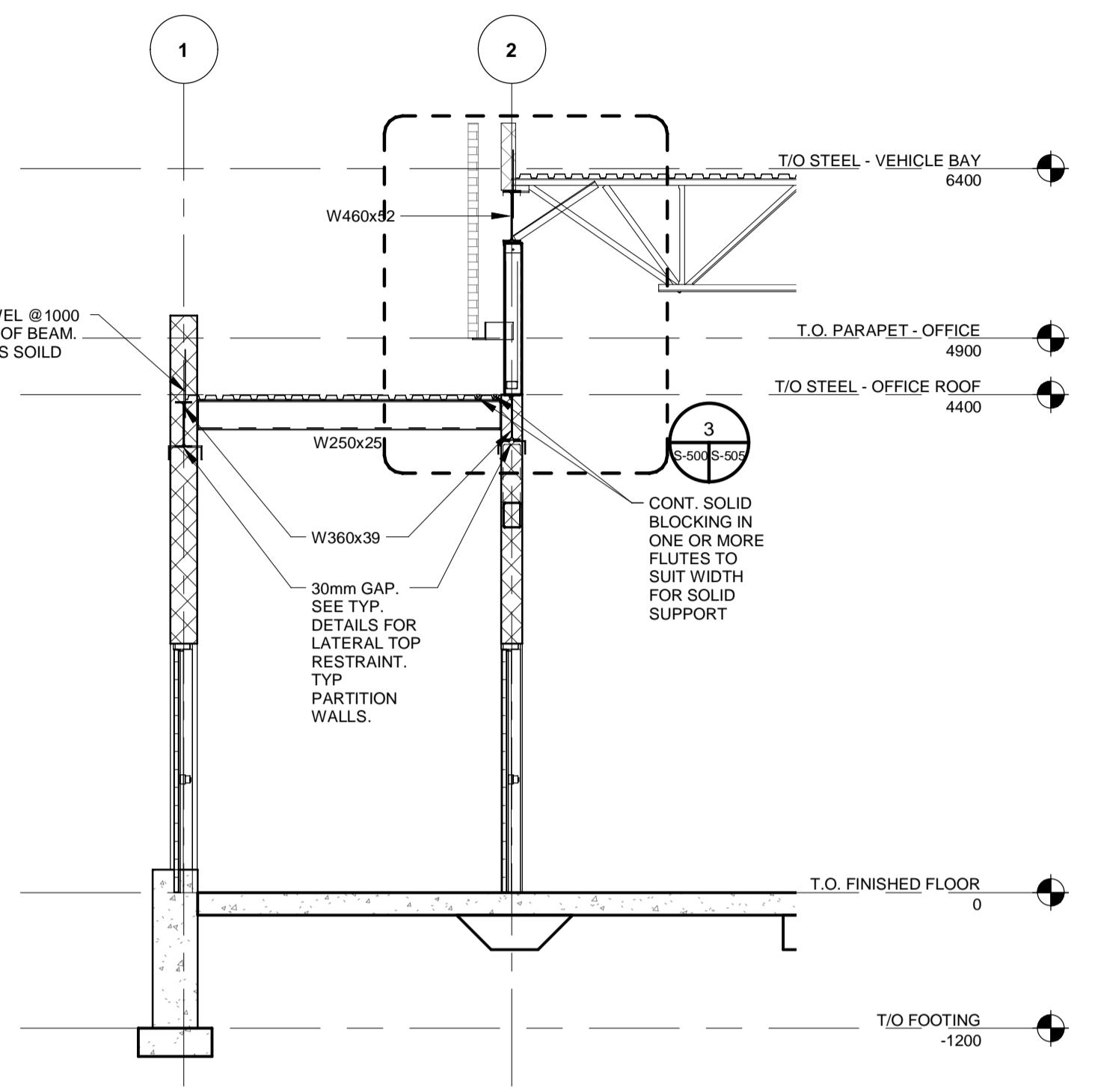
NEW PARAMEDICS STATION - SEATON

SECTIONS SHEET 1 OF 6

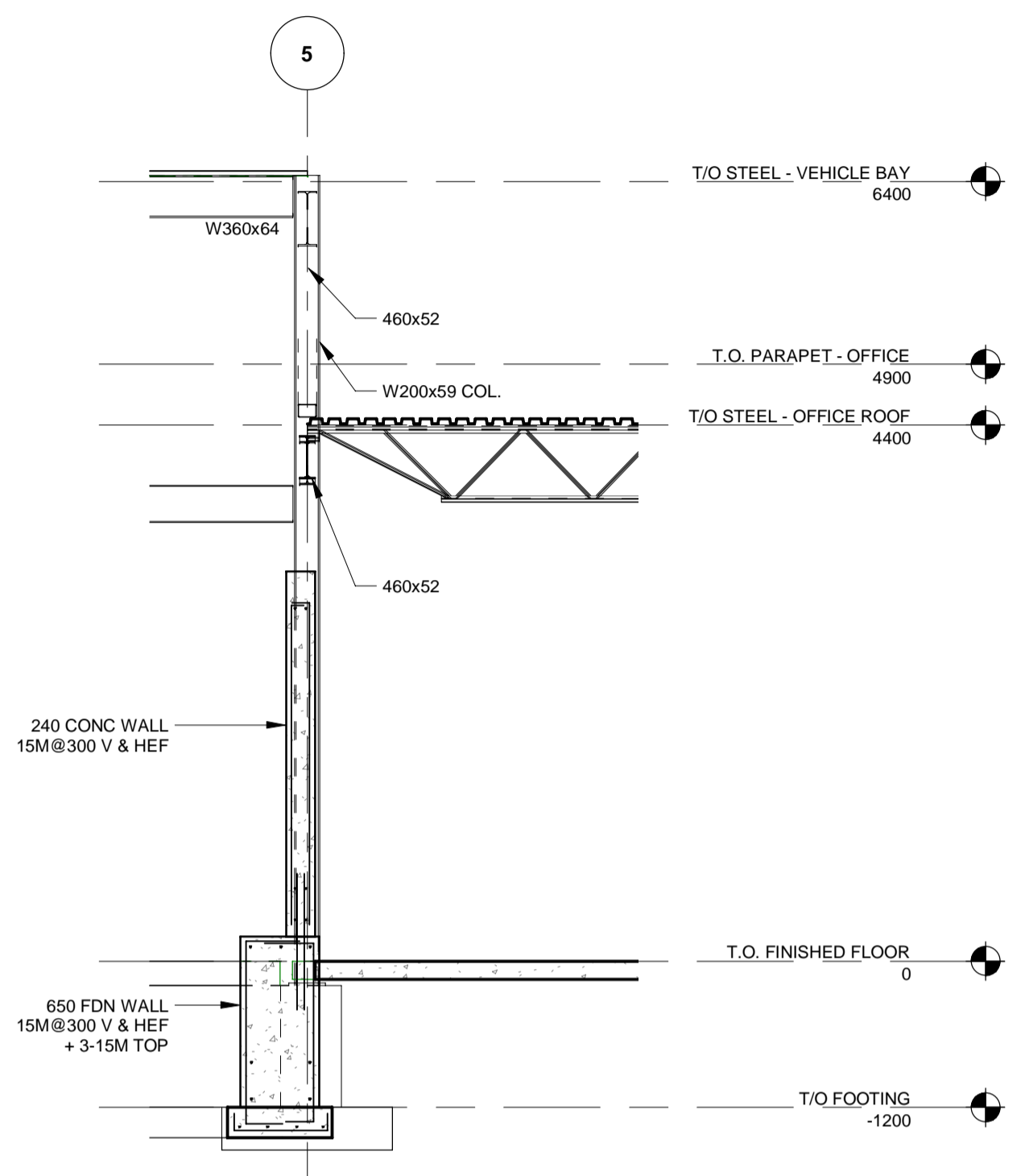
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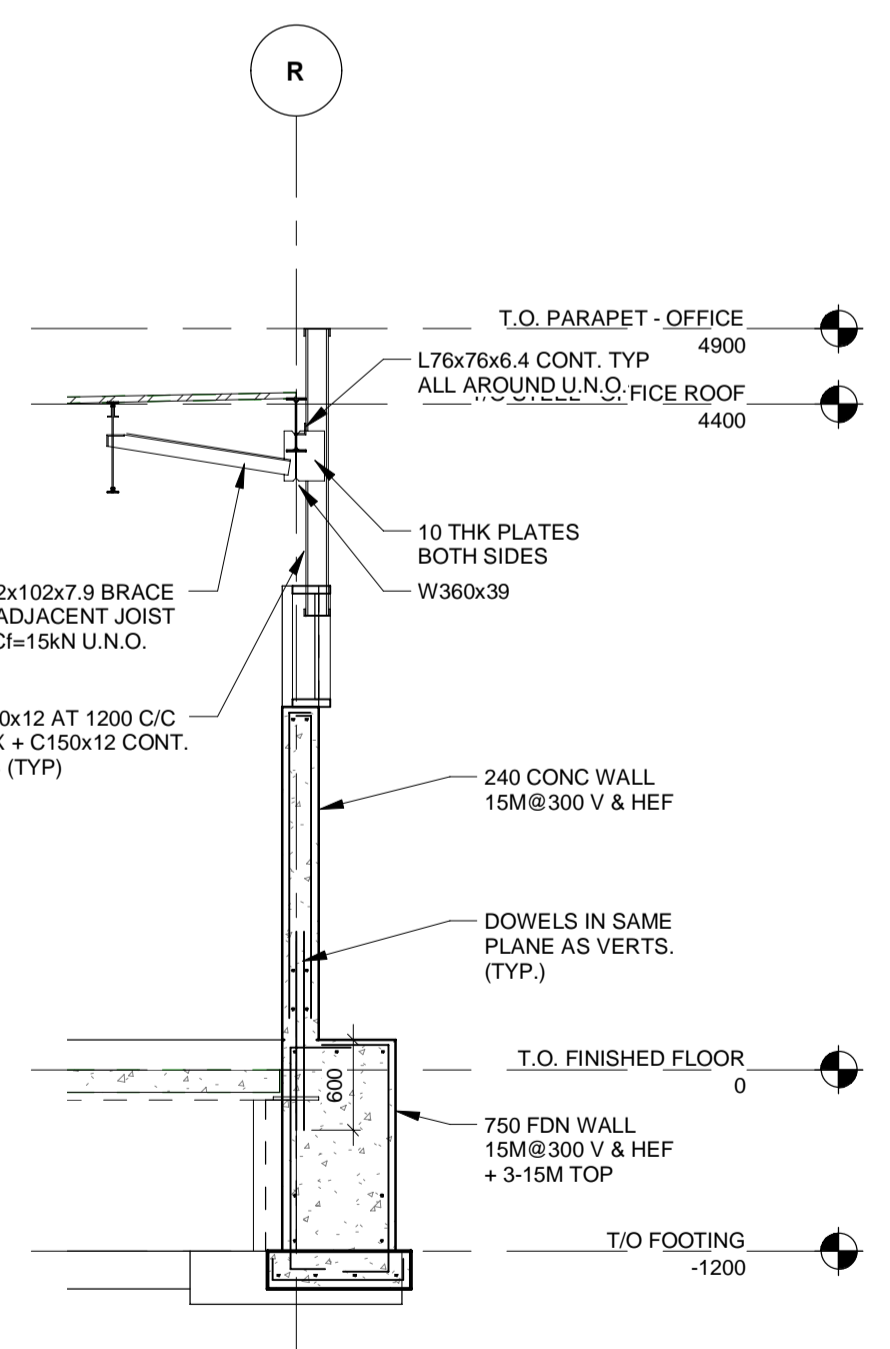
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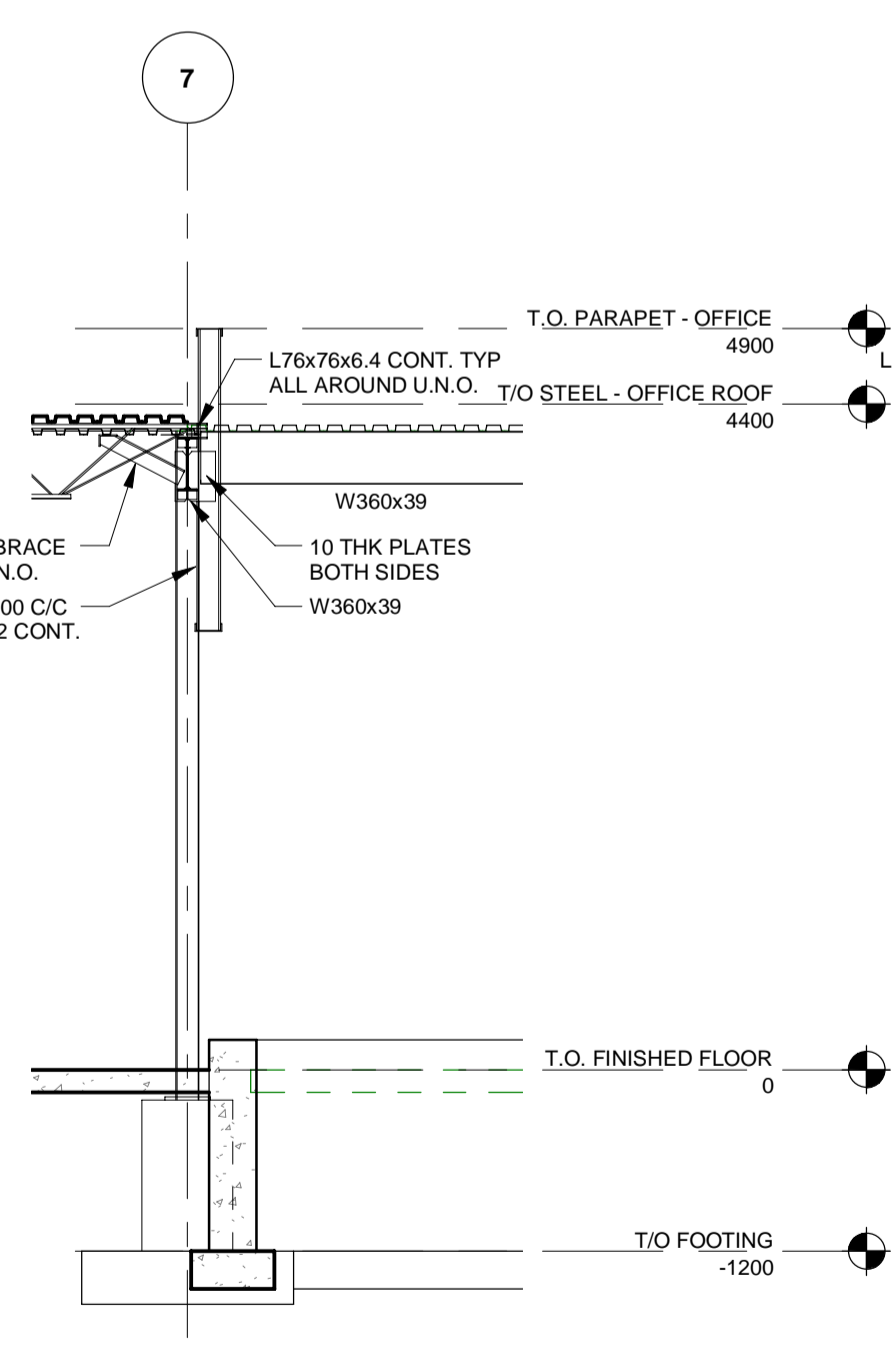
2 SECTION
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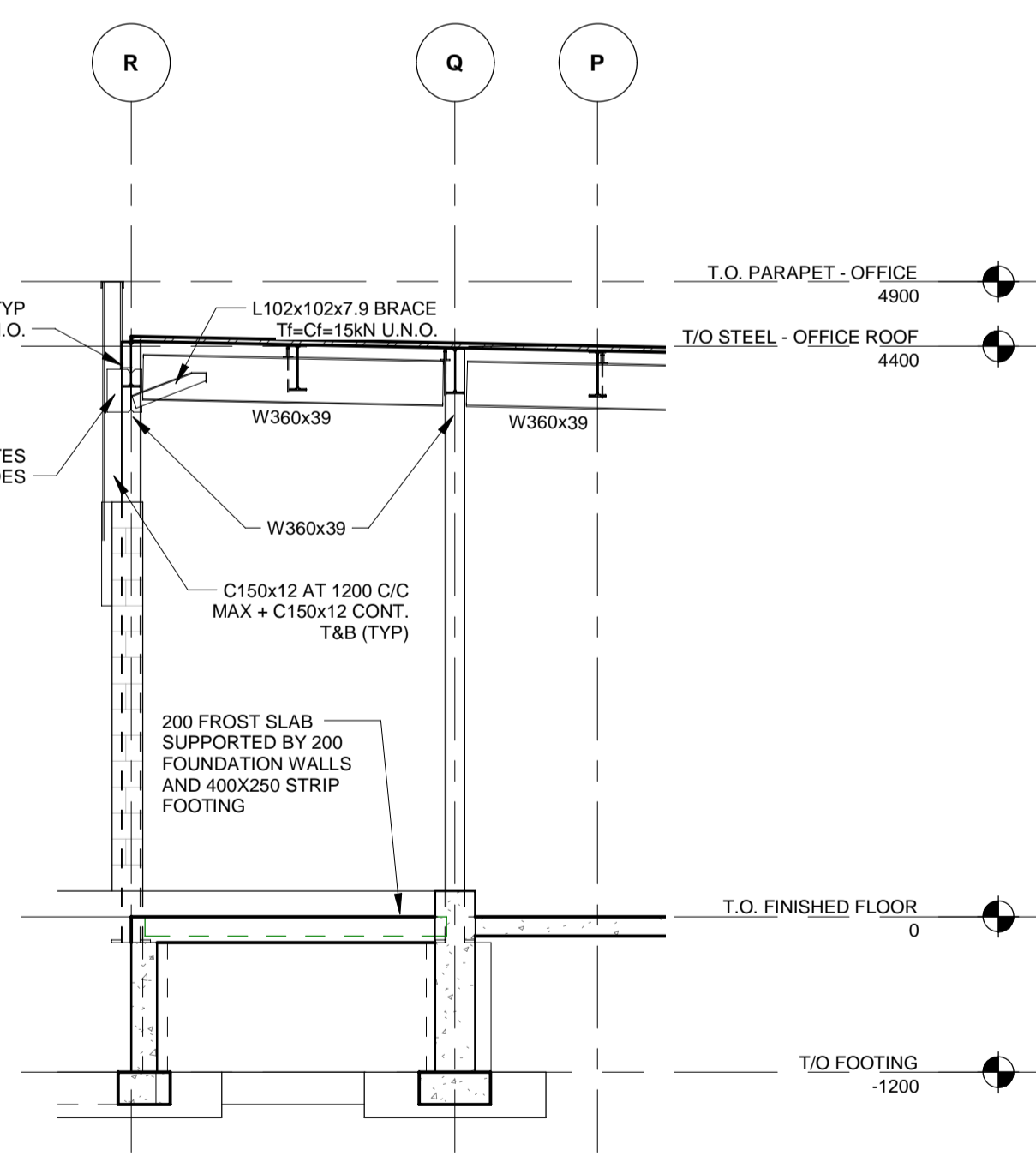
3 SECTION
S-200 S-500 1 : 50



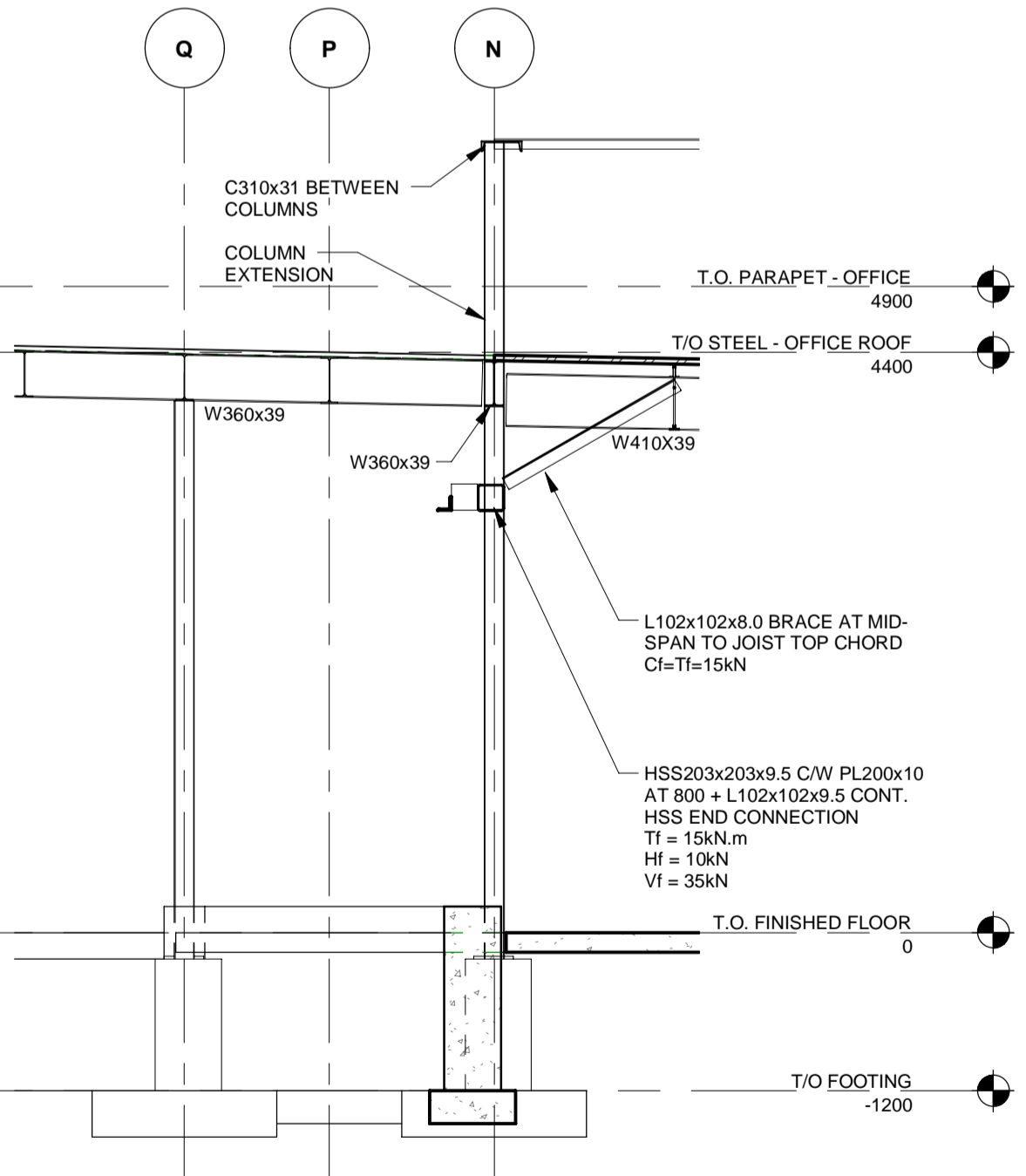
4 SECTION
S-200 S-500 1 : 50



5 SECTION
S-200 S-500 1 : 50



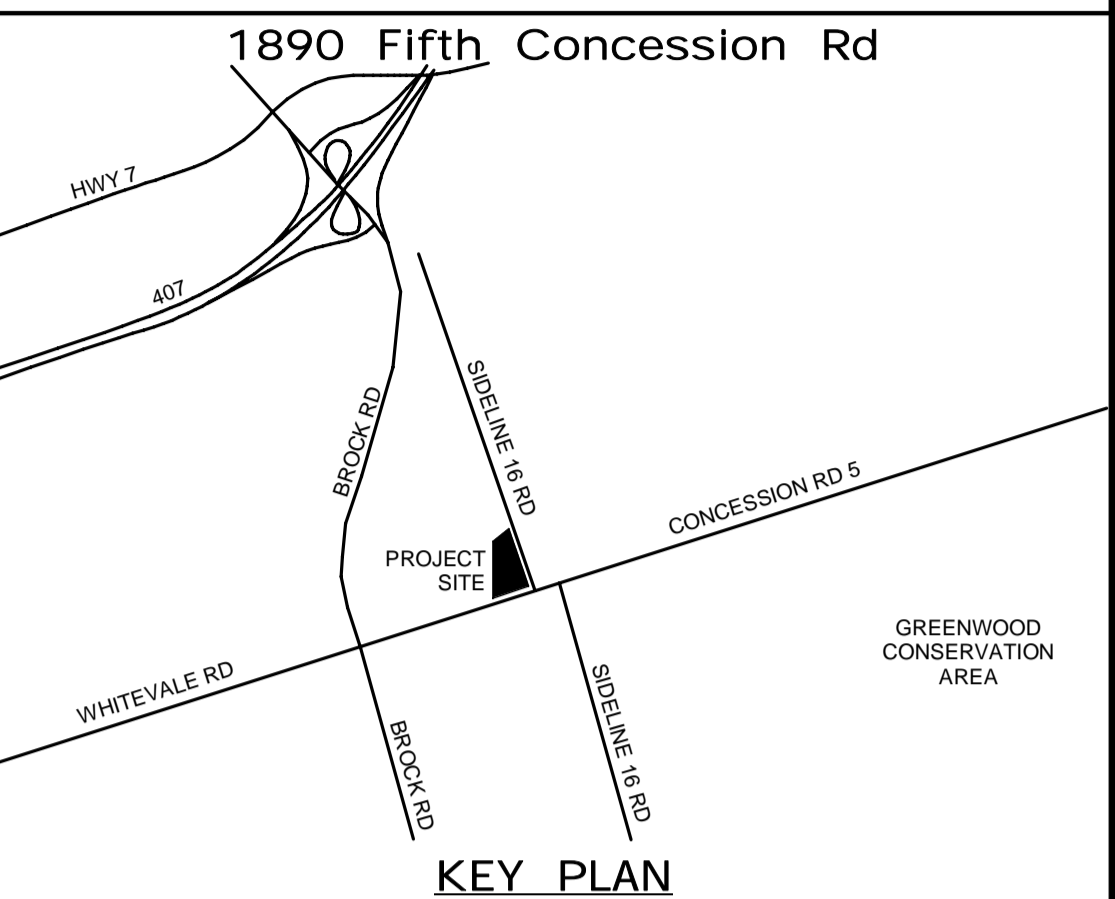
6 SECTION
S-200 S-500 1 : 50



7 SECTION
S-200 S-500 1 : 50

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| CONSULTANT REVISIONS | | | |
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| NO. | DATE | NAME | REVISIONS |
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PRIME CONSULTANT

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AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT

| | |
|-------------------|---------------------------------|
| DESIGN BY: D.S. | SCALE: 1 : 50 |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

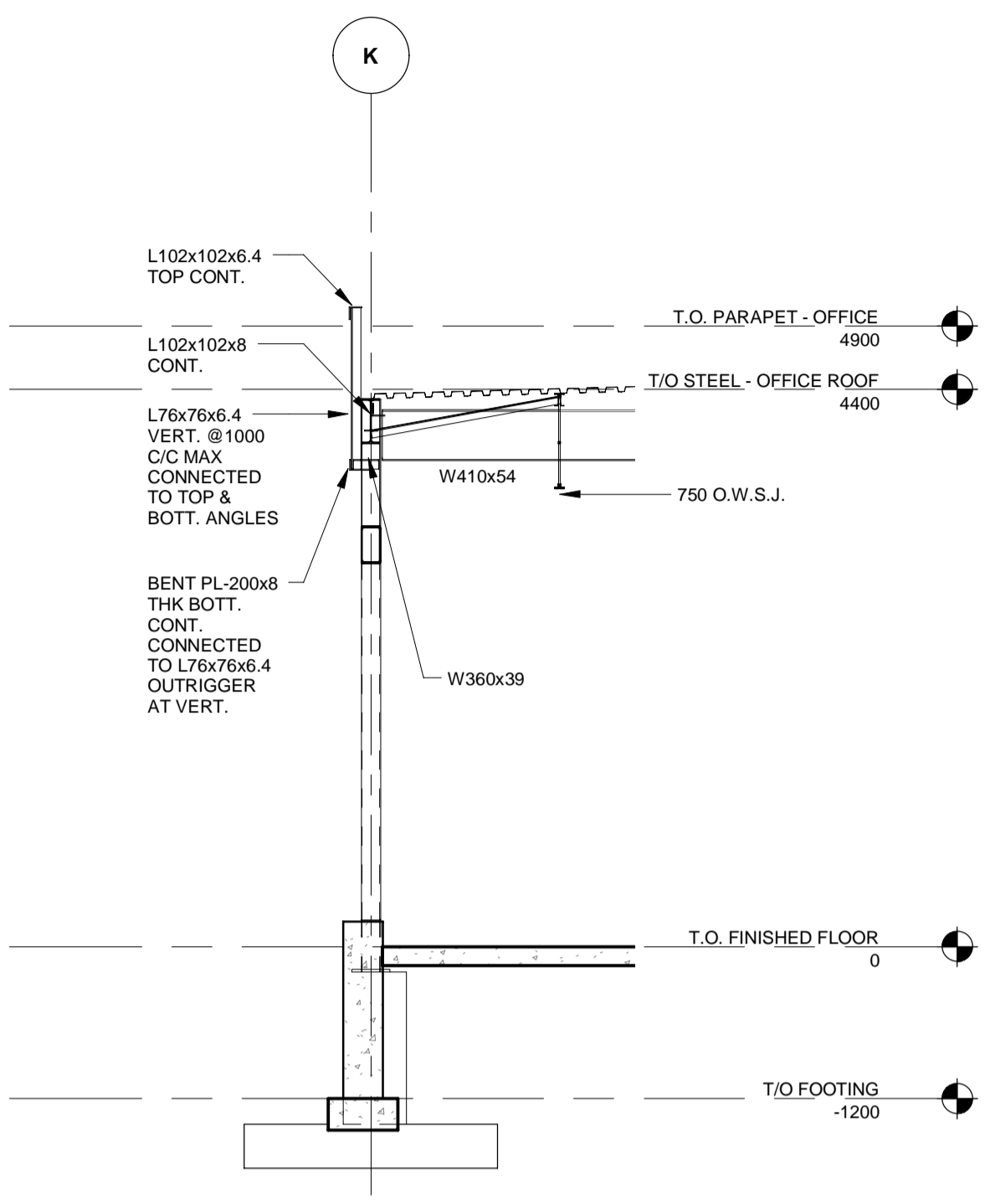
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THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

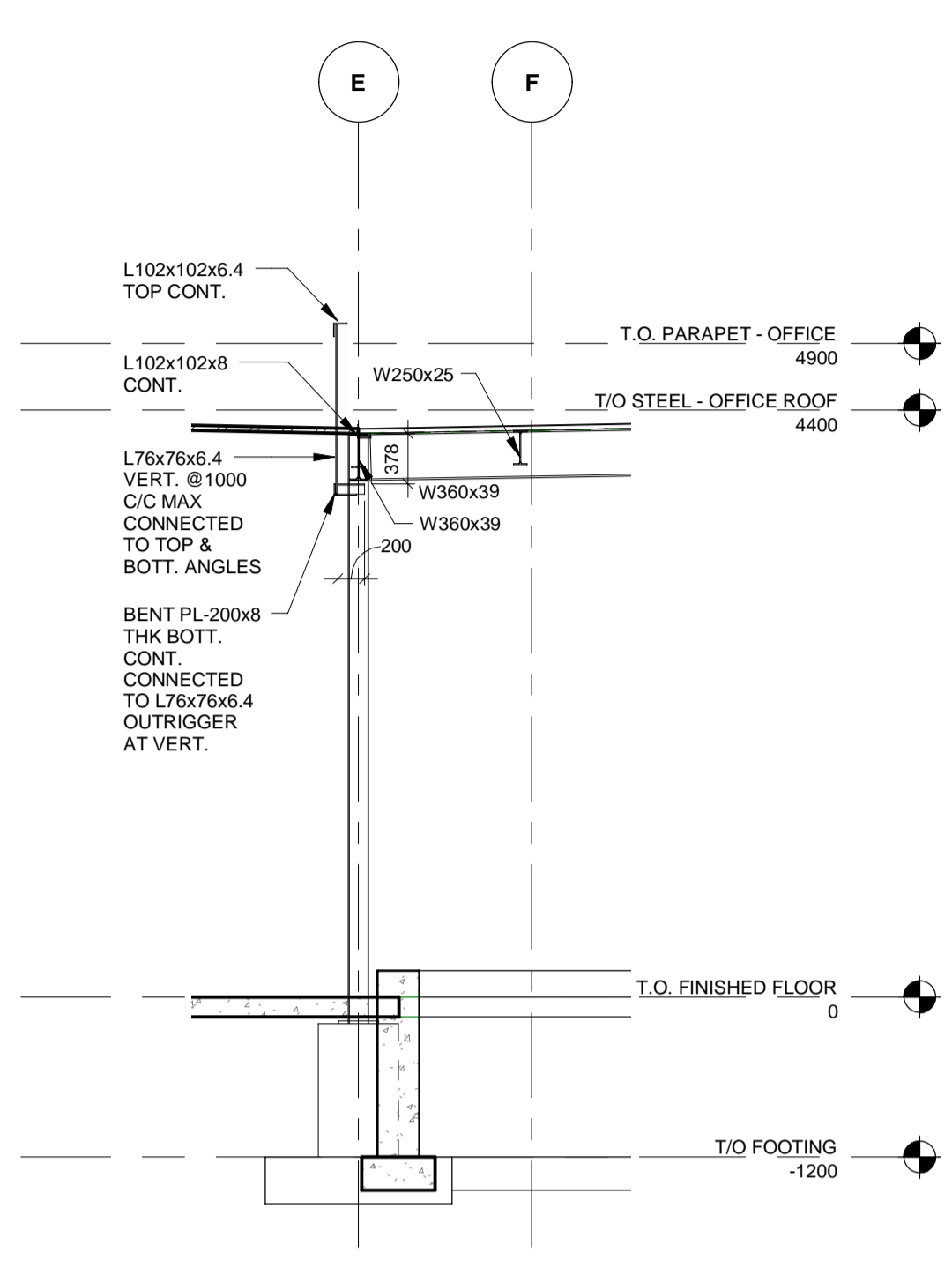
NEW PARAMEDICS STATION - SEATON

SECTIONS SHEET 2 OF 6

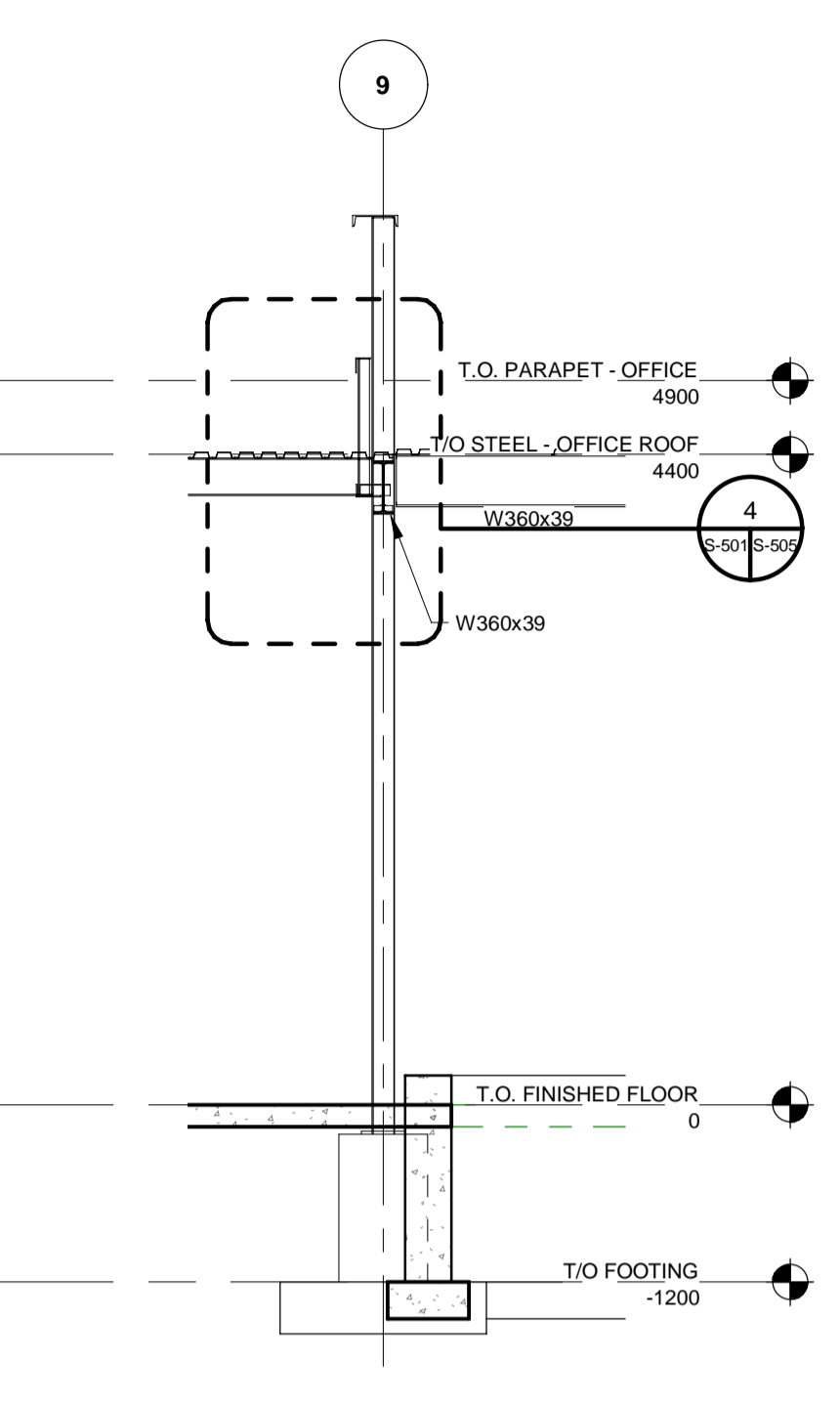
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 501 | SHEET NO. |



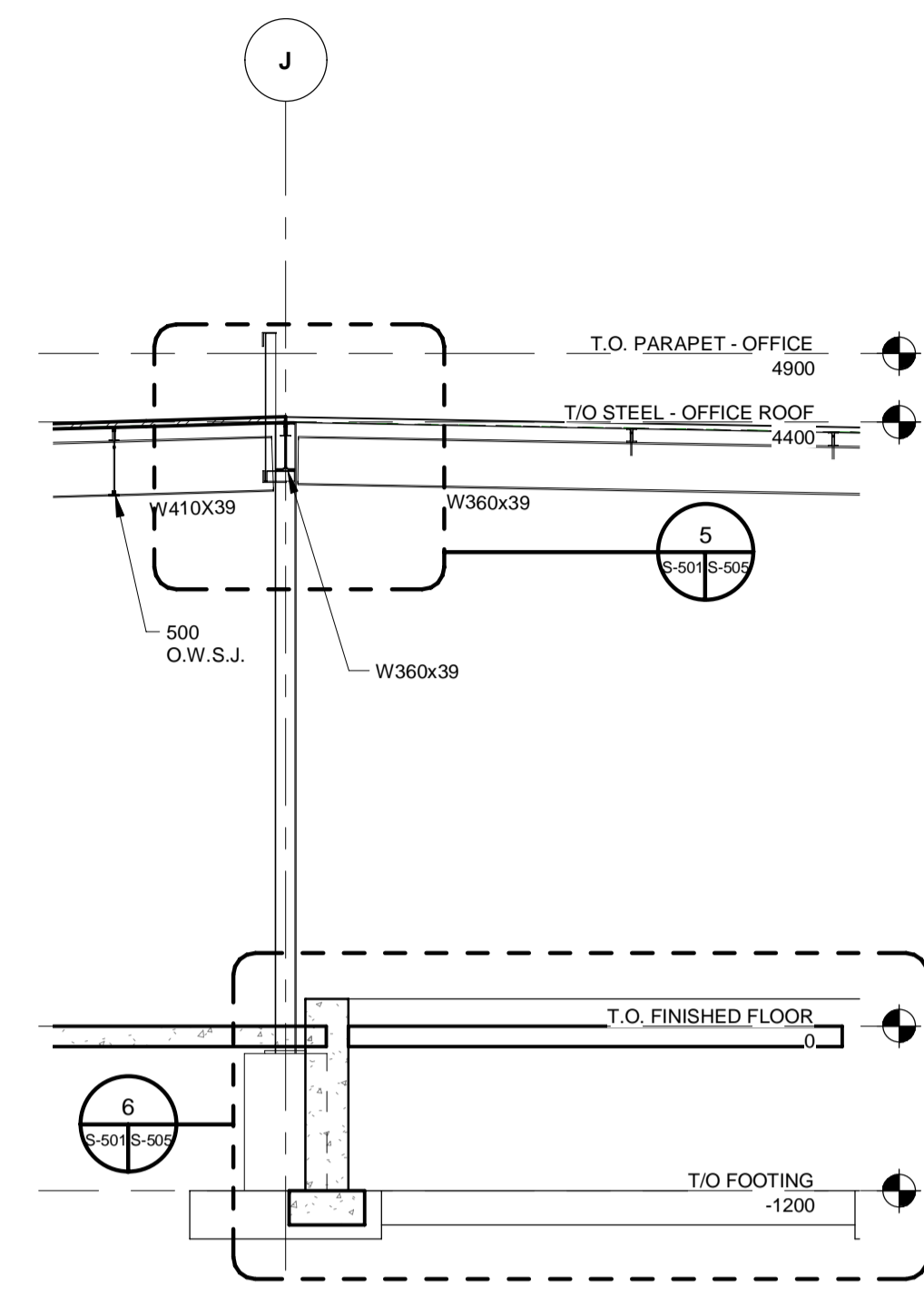
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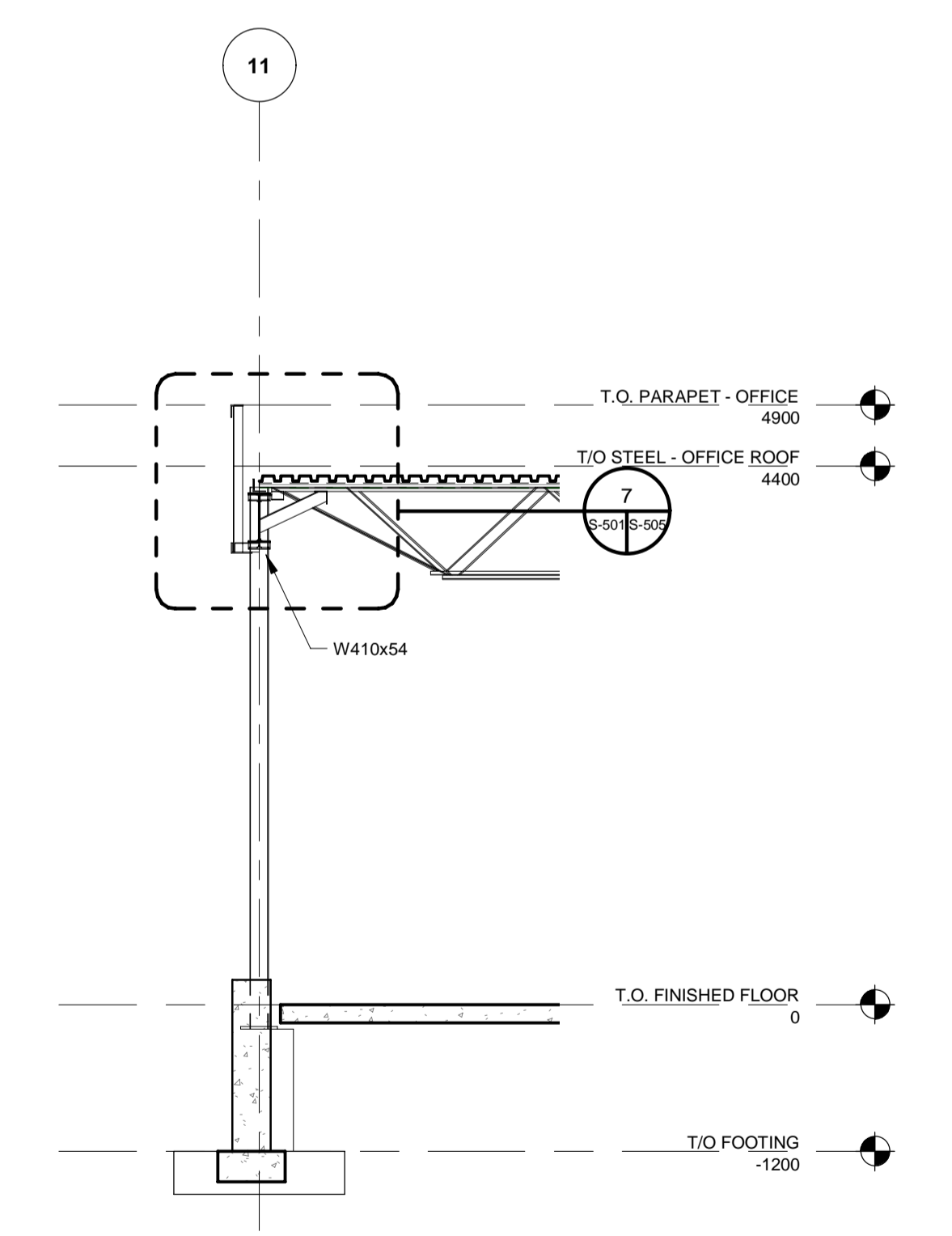
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S-200 S-501 1 : 50



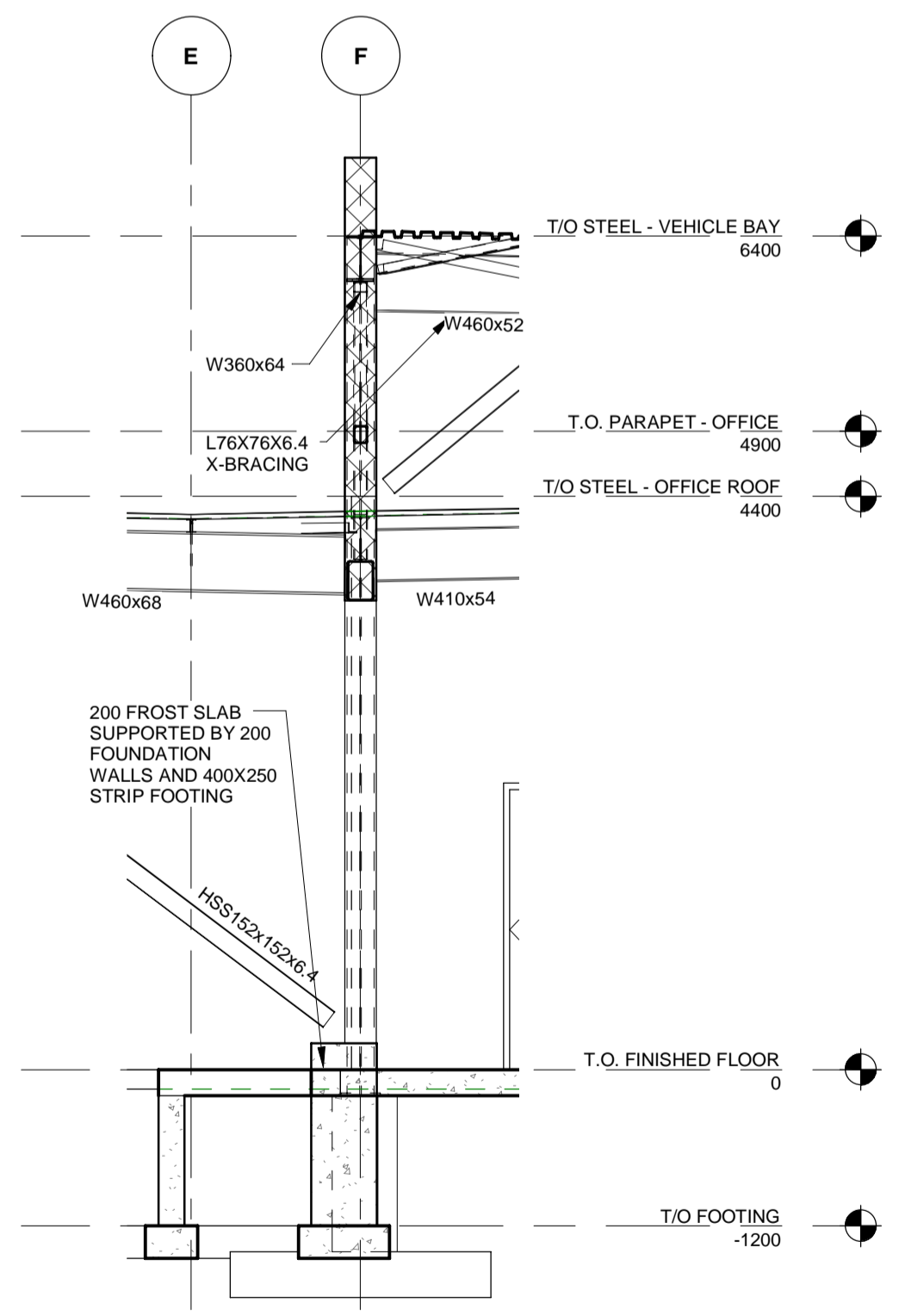
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S-200 S-501 1 : 50



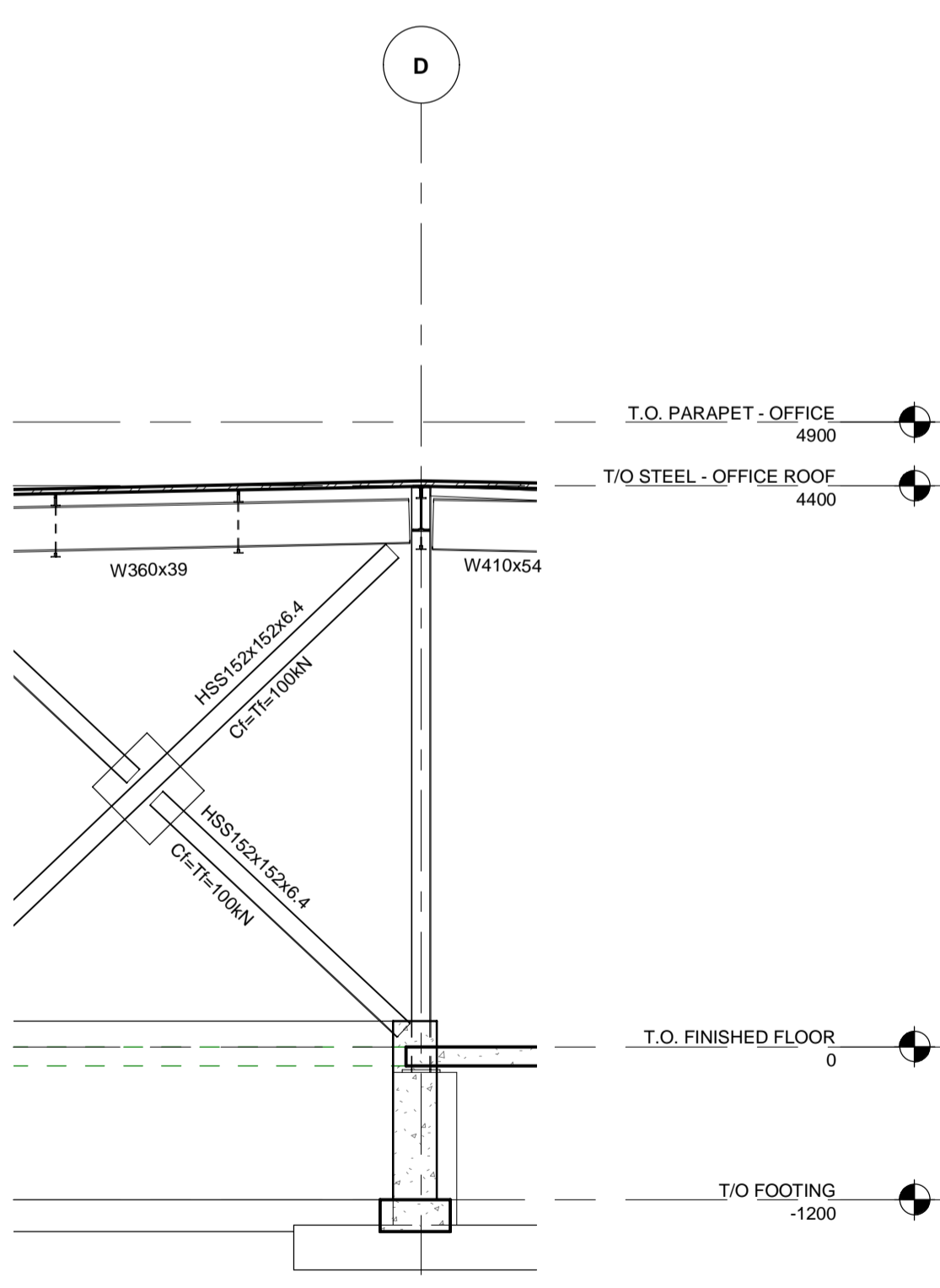
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S-200 S-501 1 : 50



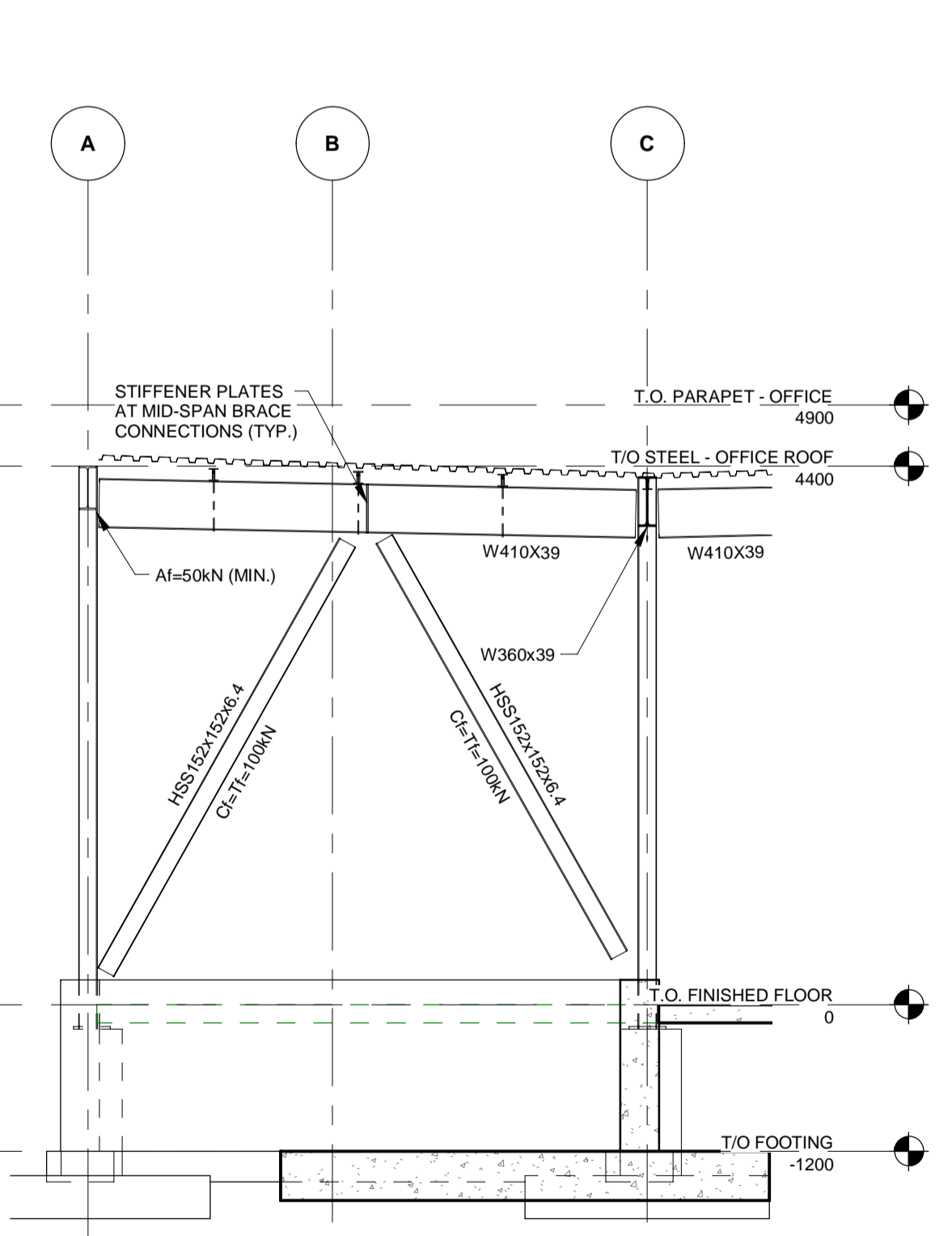
5 SECTION
S-200 S-501 1 : 50



6 SECTION
S-200 S-501 1 : 50

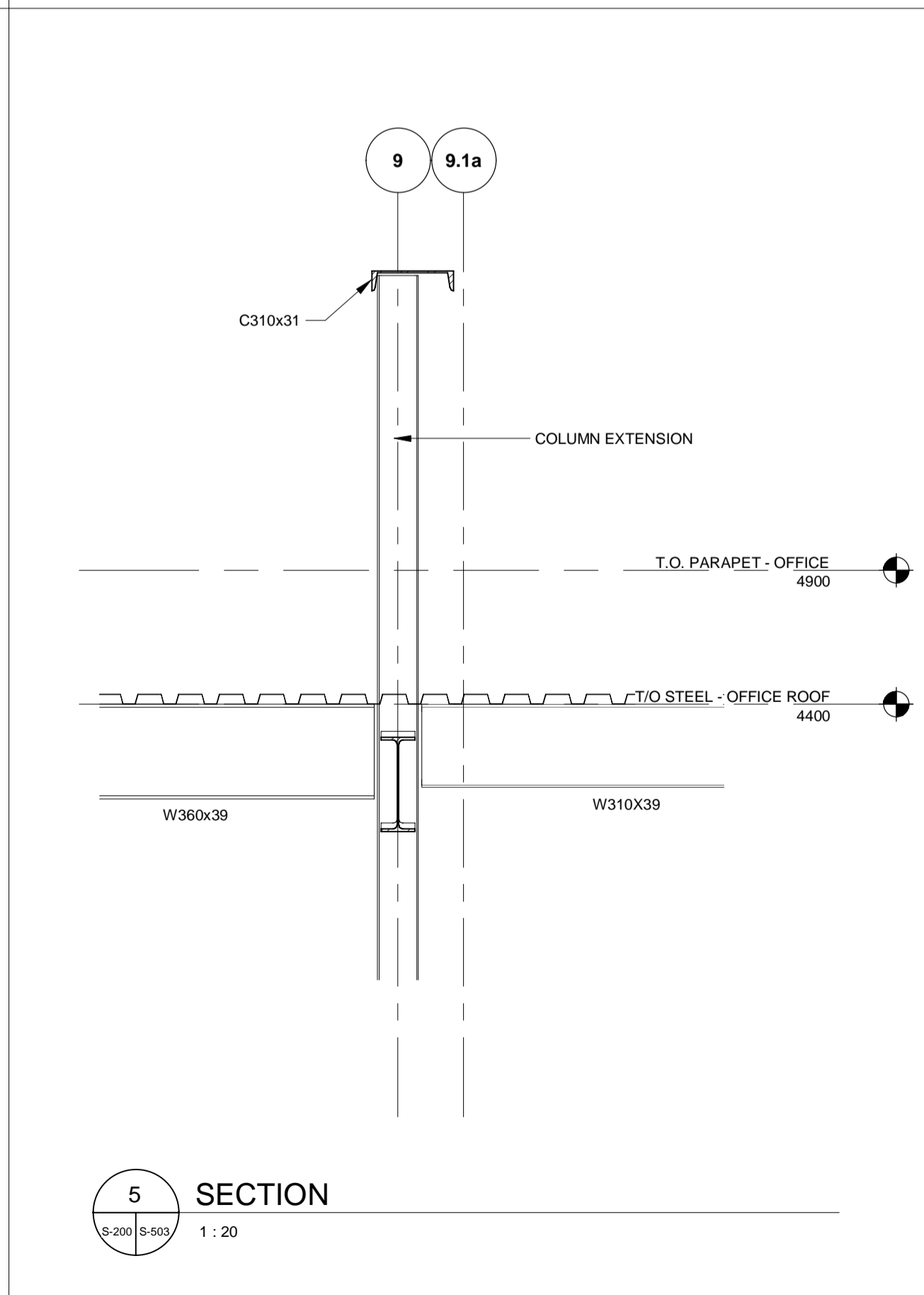
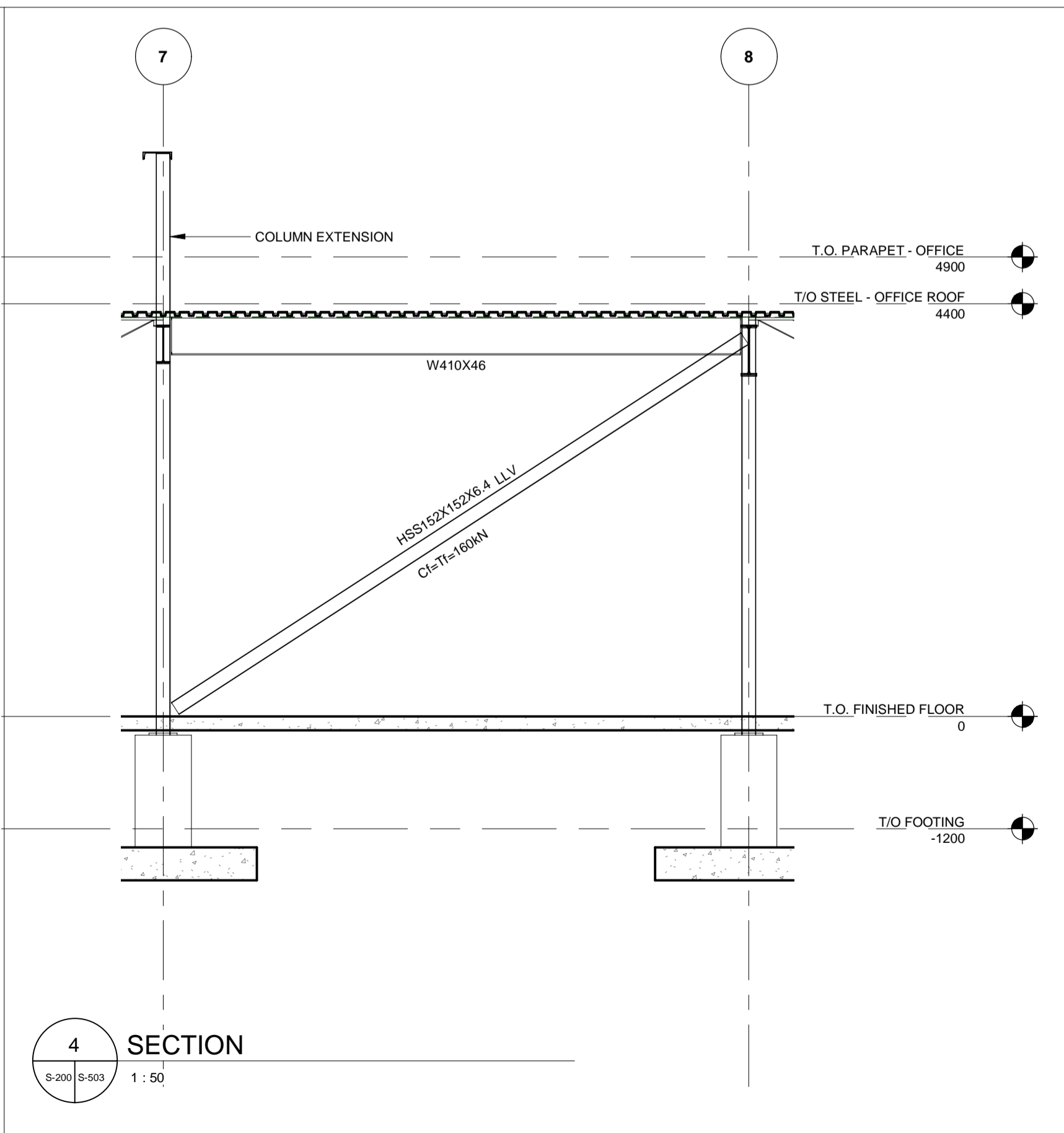
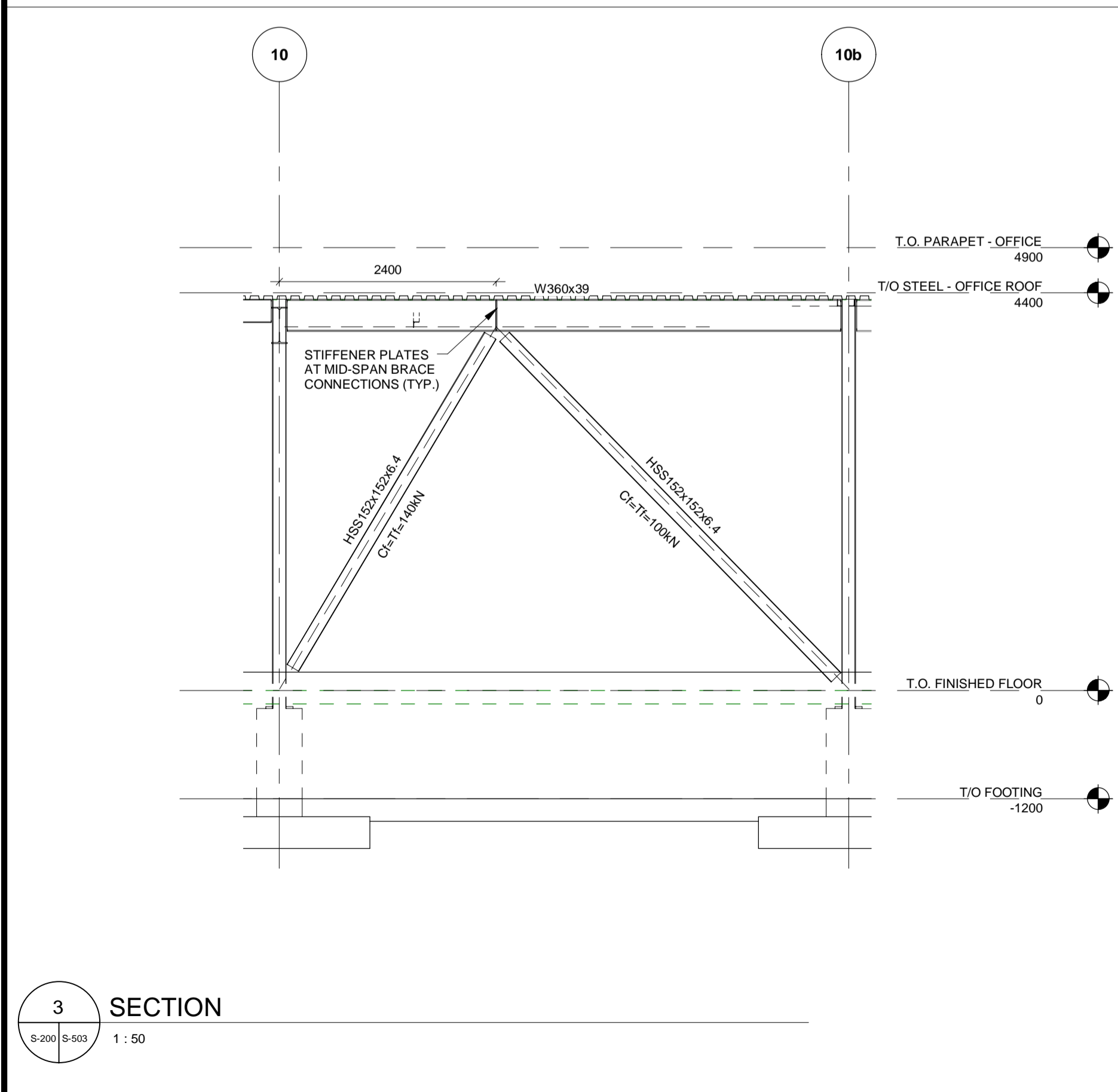
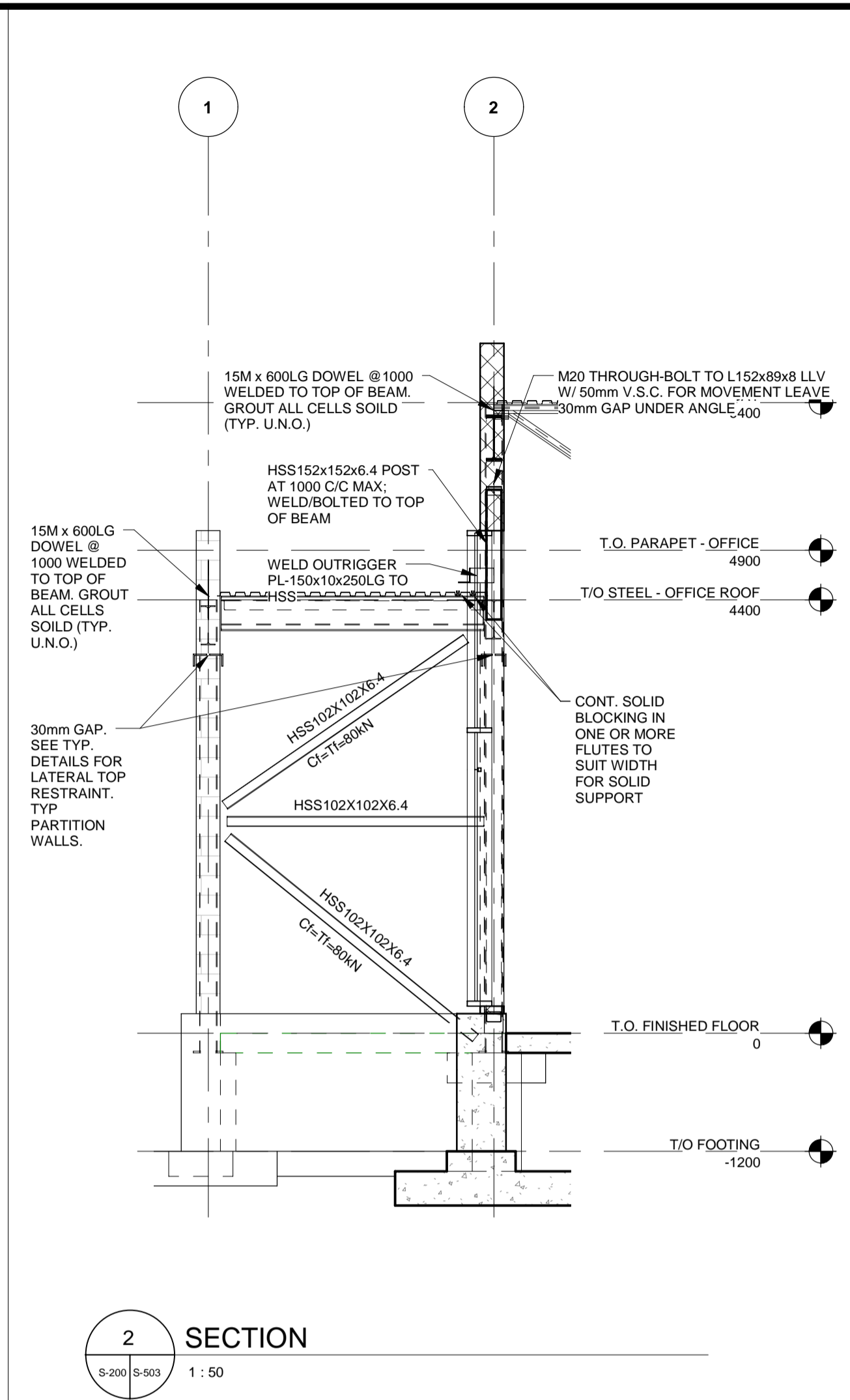
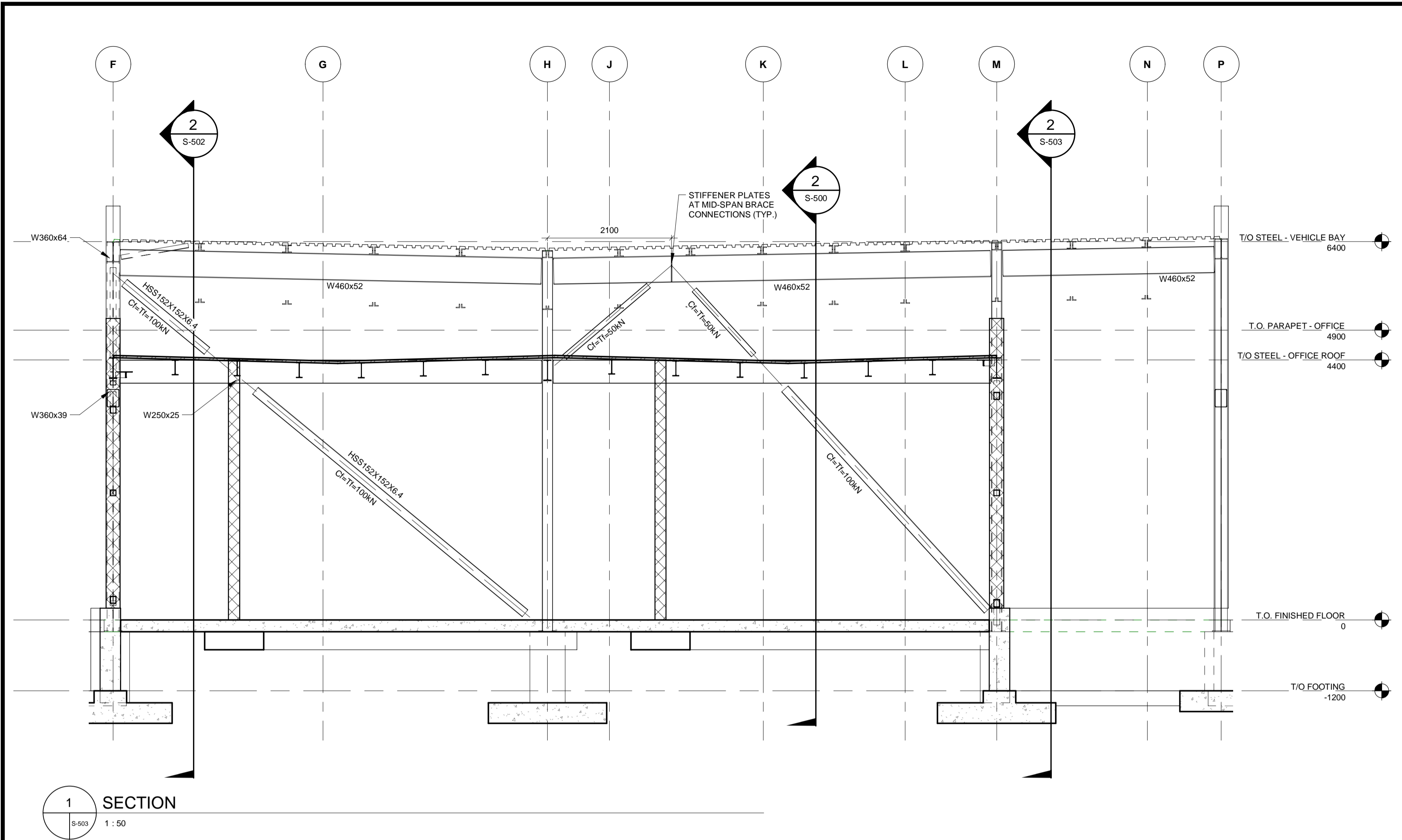


7 SECTION
S-200 S-501 1 : 50



8 SECTION
S-200 S-501 1 : 50

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1890 Fifth Concession Rd

HWY 7
407
BRACK RD
SIDE LINE RD
CONCESSION RD 5
WHITEVALE RD
PROJECT SITE
SIDE LINE RD
GREENWOOD CONSERVATION AREA

KEY PLAN

| NO. | DATE | NAME | REVISIONS |
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CONSULTANT REVISIONS

PRIME CONSULTANT

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www.aecom.com

SUB CONSULTANT

LICENSED PROFESSIONAL ENGINEER
K.T.D. DUONG
100055126
Mar. 22/2022
PROVINCE OF ONTARIO

| DESIGN BY: | D.S. | SCALE: | As Indicated |
|--------------|------|------------------------|--------------|
| DRAWN BY: | R.E. | DATE: | 03/31/21 |
| CHECKED BY: | C.Y. | CONSULTANT PROJECT NO. | 60611569 |
| APPROVED BY: | K.D. | CLIENT FILE No.: | 811/20 |

| NO. | DATE | NAME | REVISIONS |
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CONTRACT REVISIONS

| NO. | DATE | NAME | REVISIONS |
|-----|----------|------|---------------------------|
| 3 | 03/22/22 | | ISSUED FOR CONSTRUCTION |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

DURHAM REGION

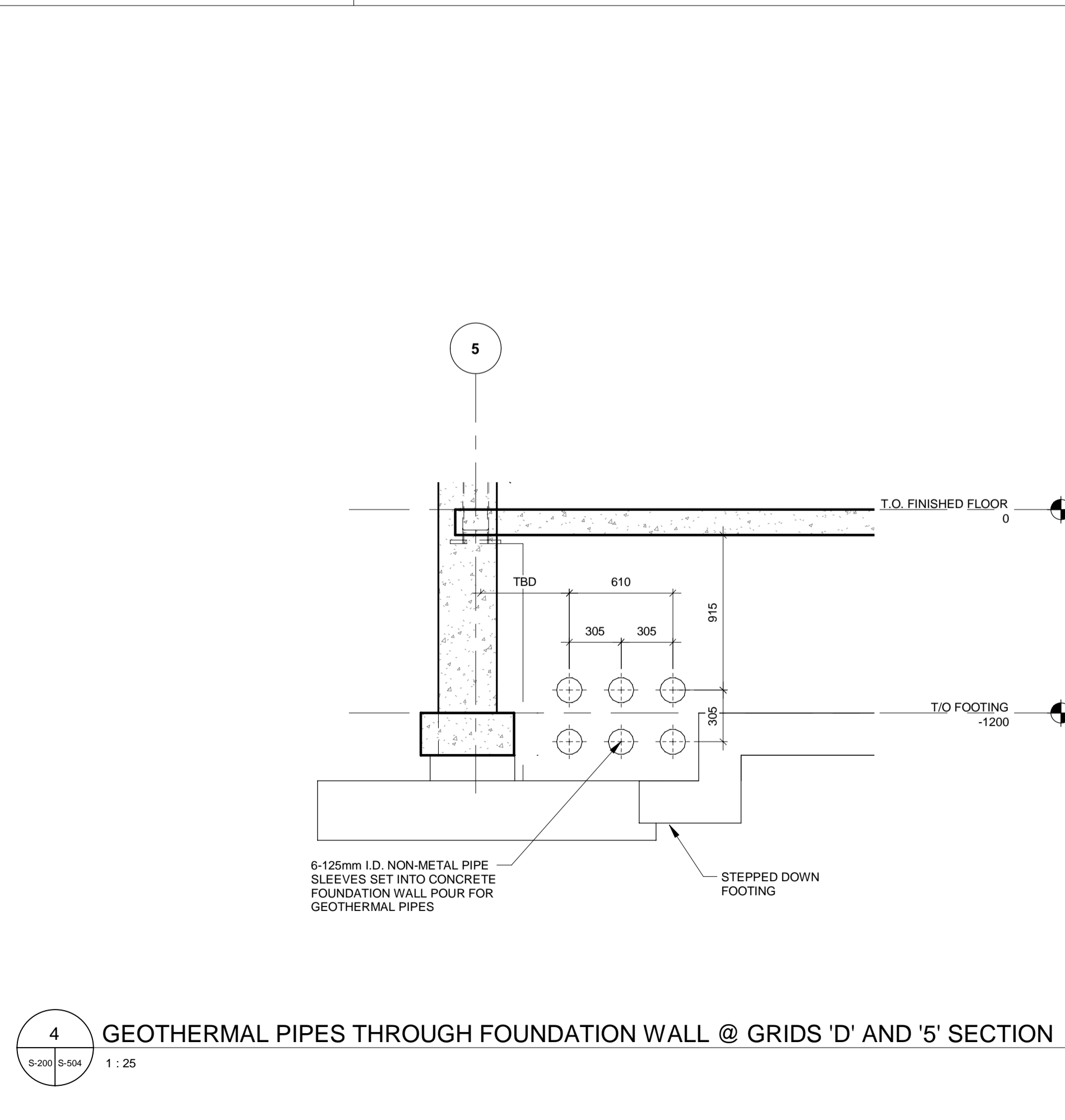
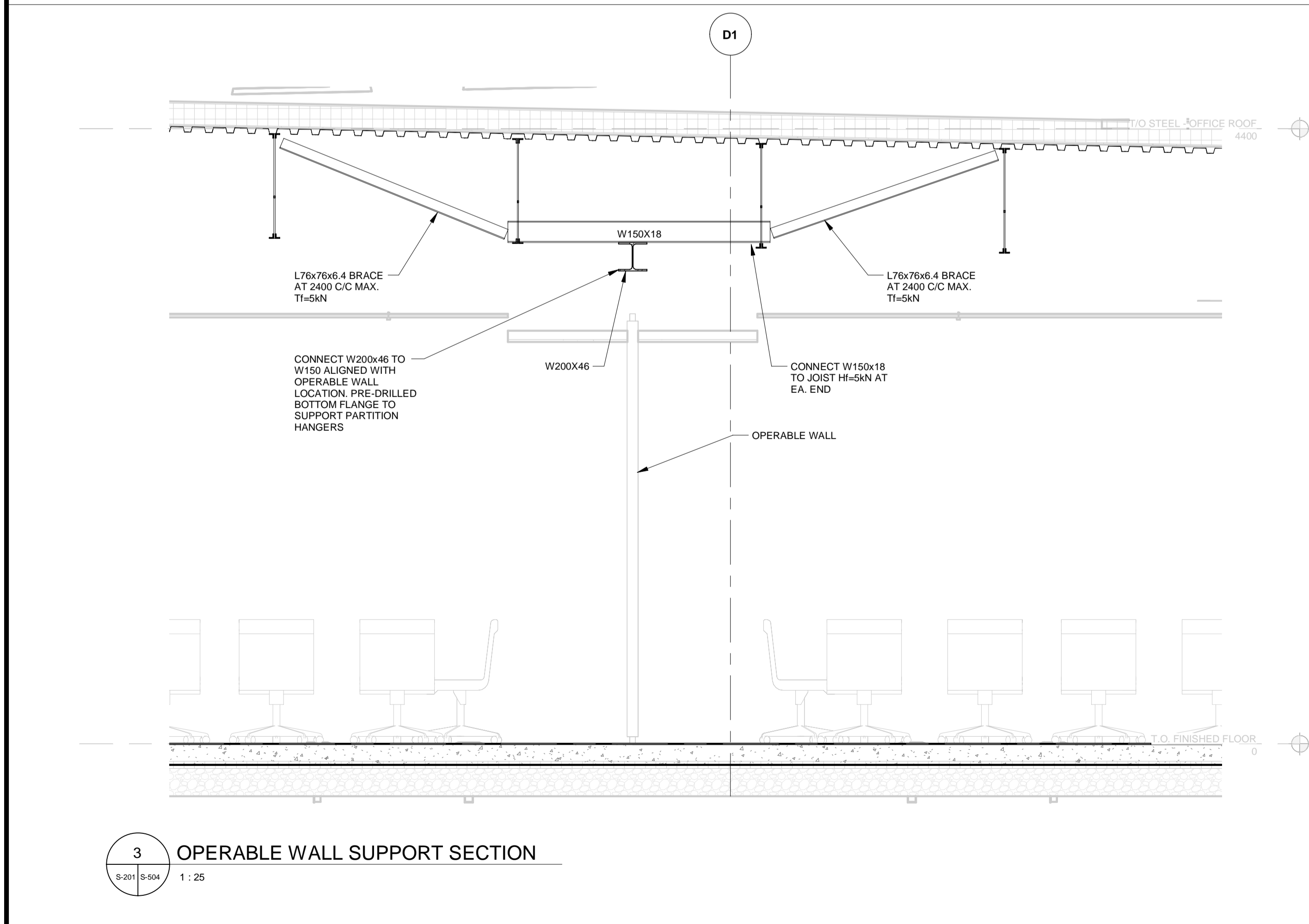
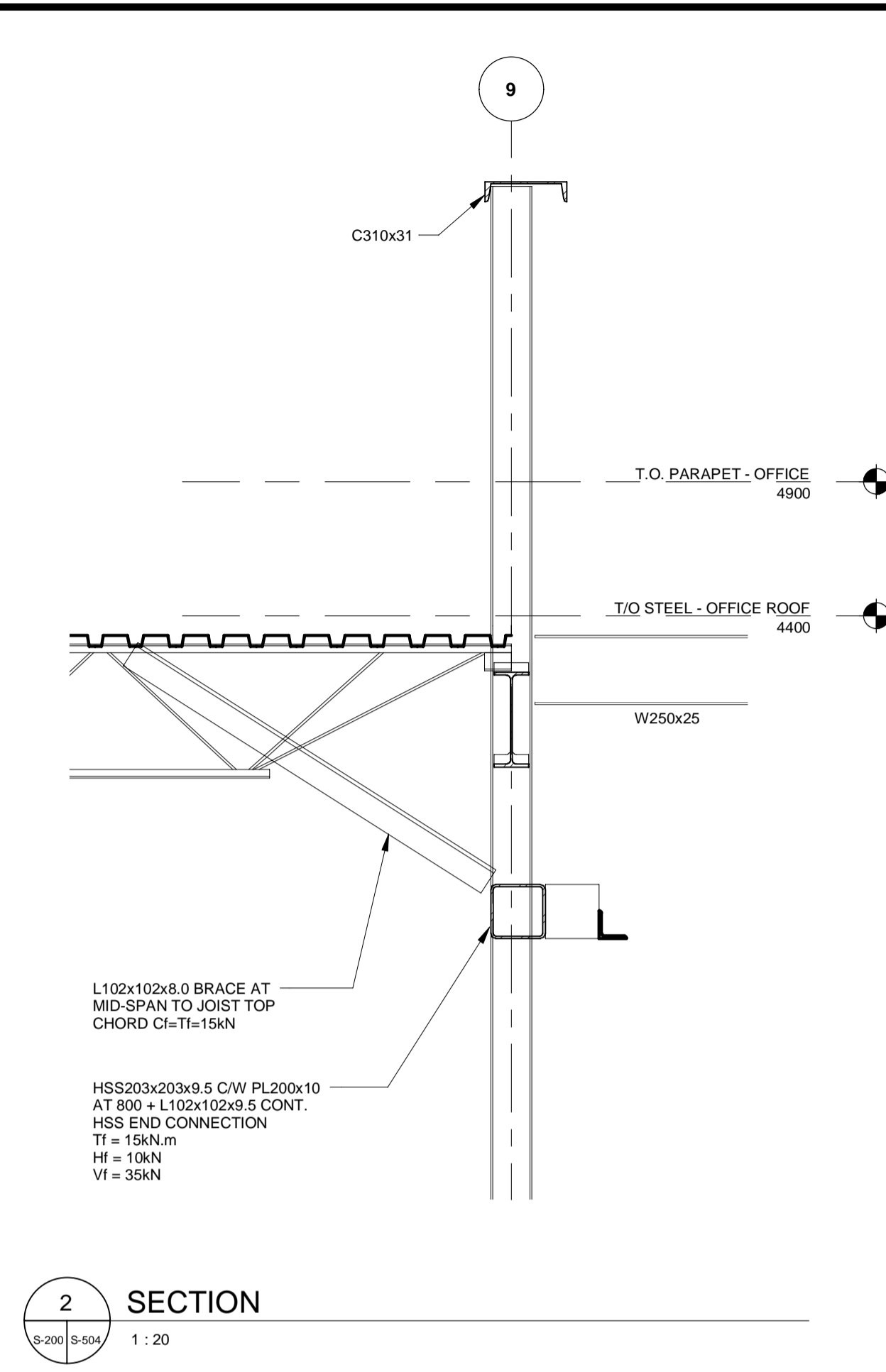
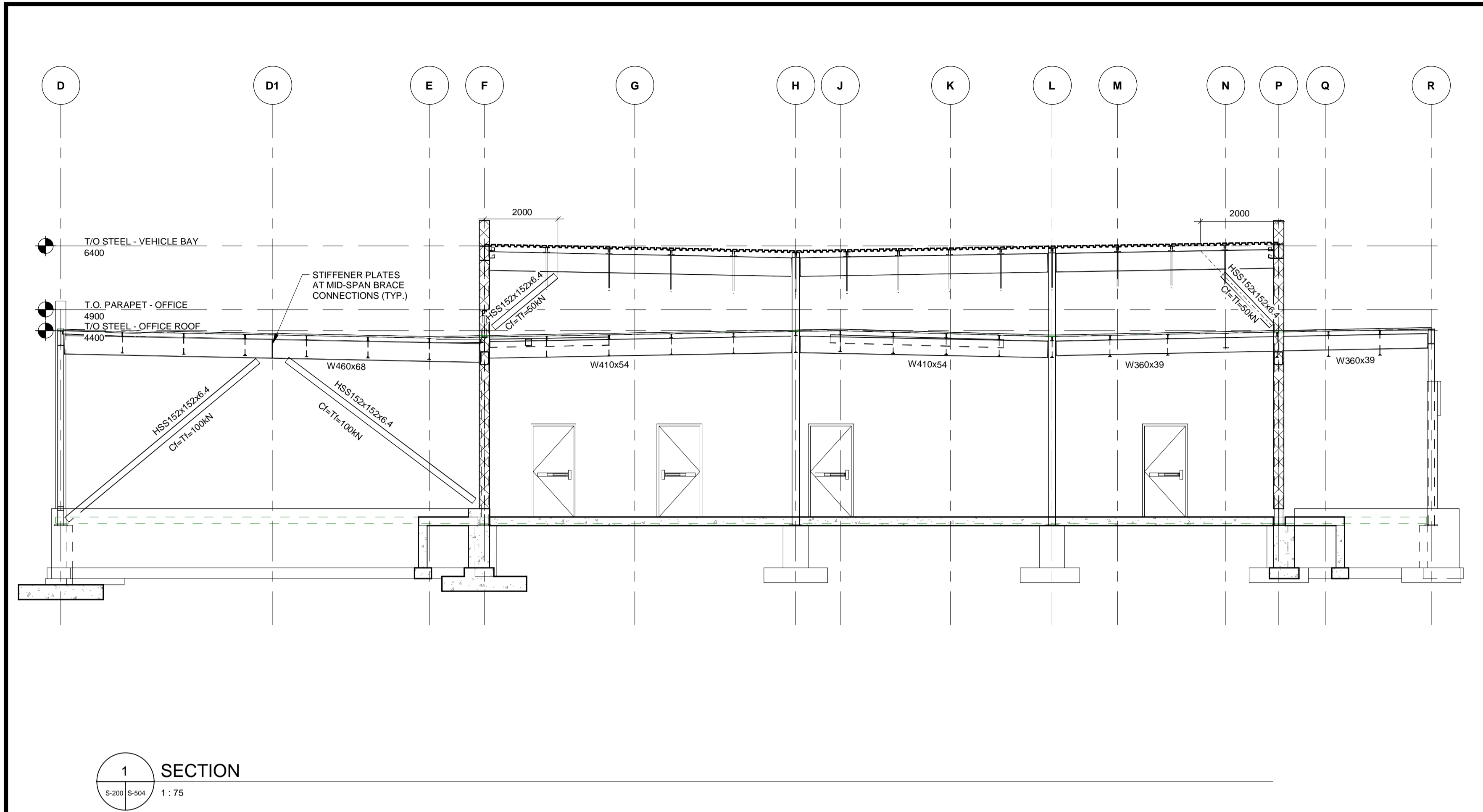
THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

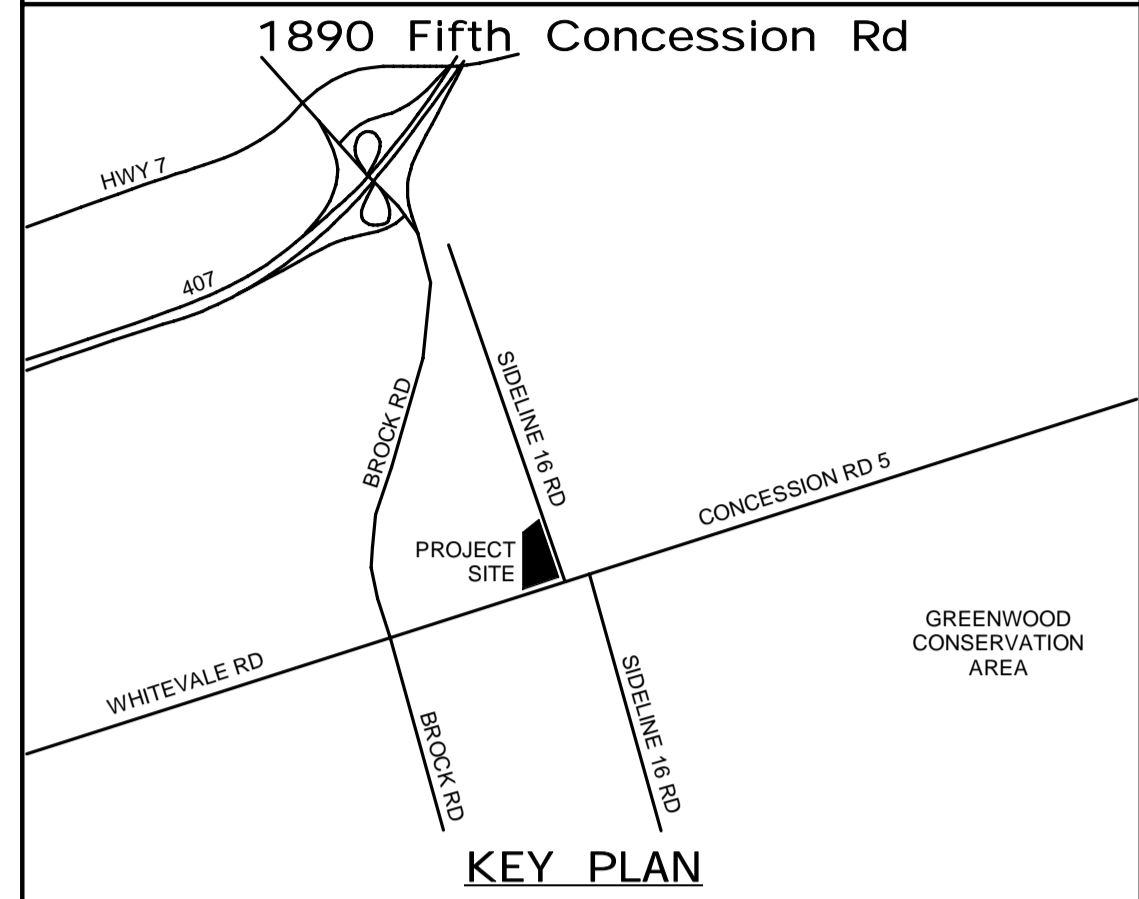
NEW PARAMEDICS STATION - SEATON

SECTIONS SHEET 4 OF 6

| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
|-------------------------------|-----------------------|---------------------------|
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 503 | P061- 18- 01 SHEET NO. |



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K.T.D. DUNG
100055126
Mar. 22/2022
PROVINCE OF ONTARIO

| | |
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| DESIGN BY: D.S. | SCALE: As Indicated |
| DRAWN BY: R.E. | DATE: 03/31/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

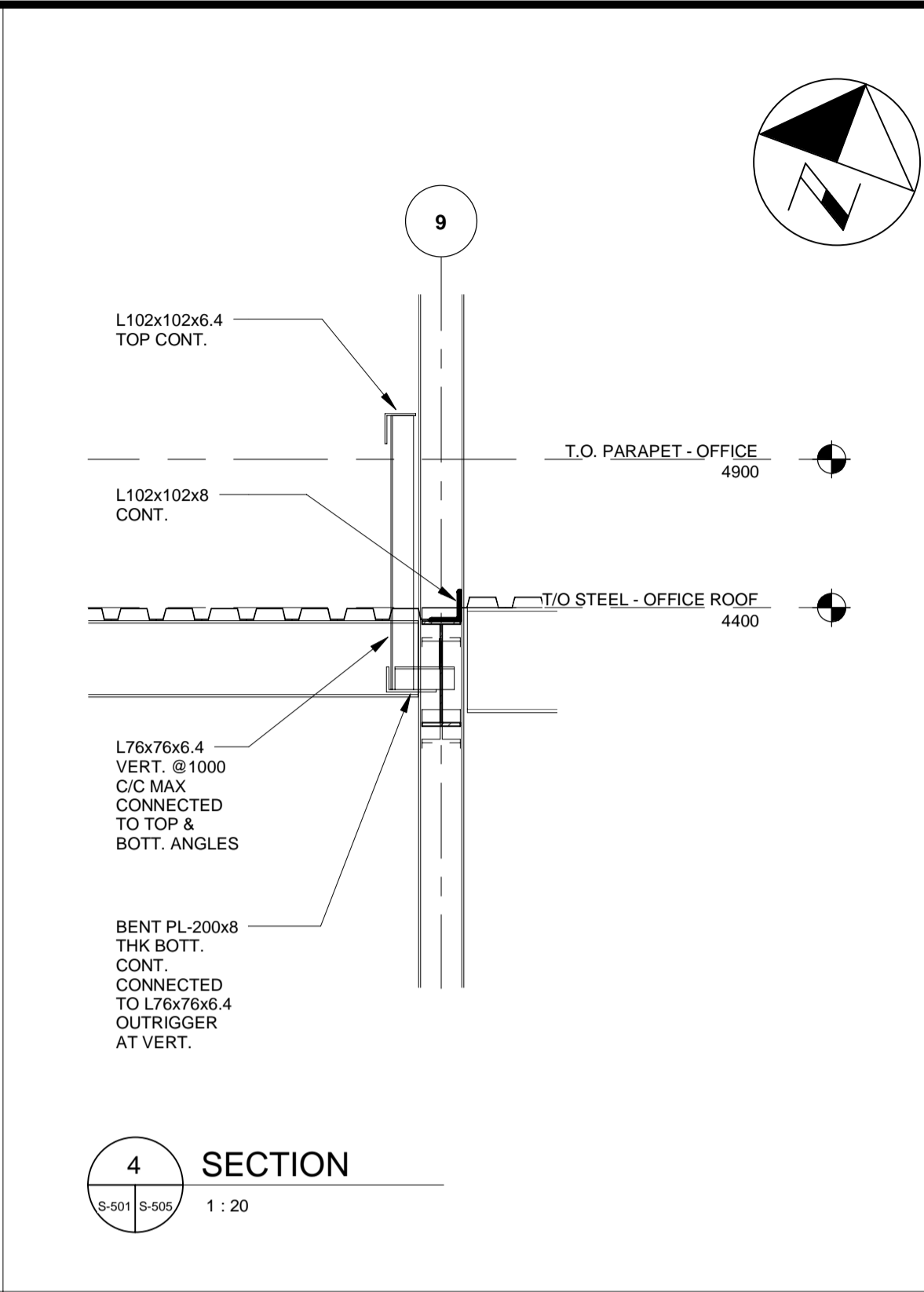
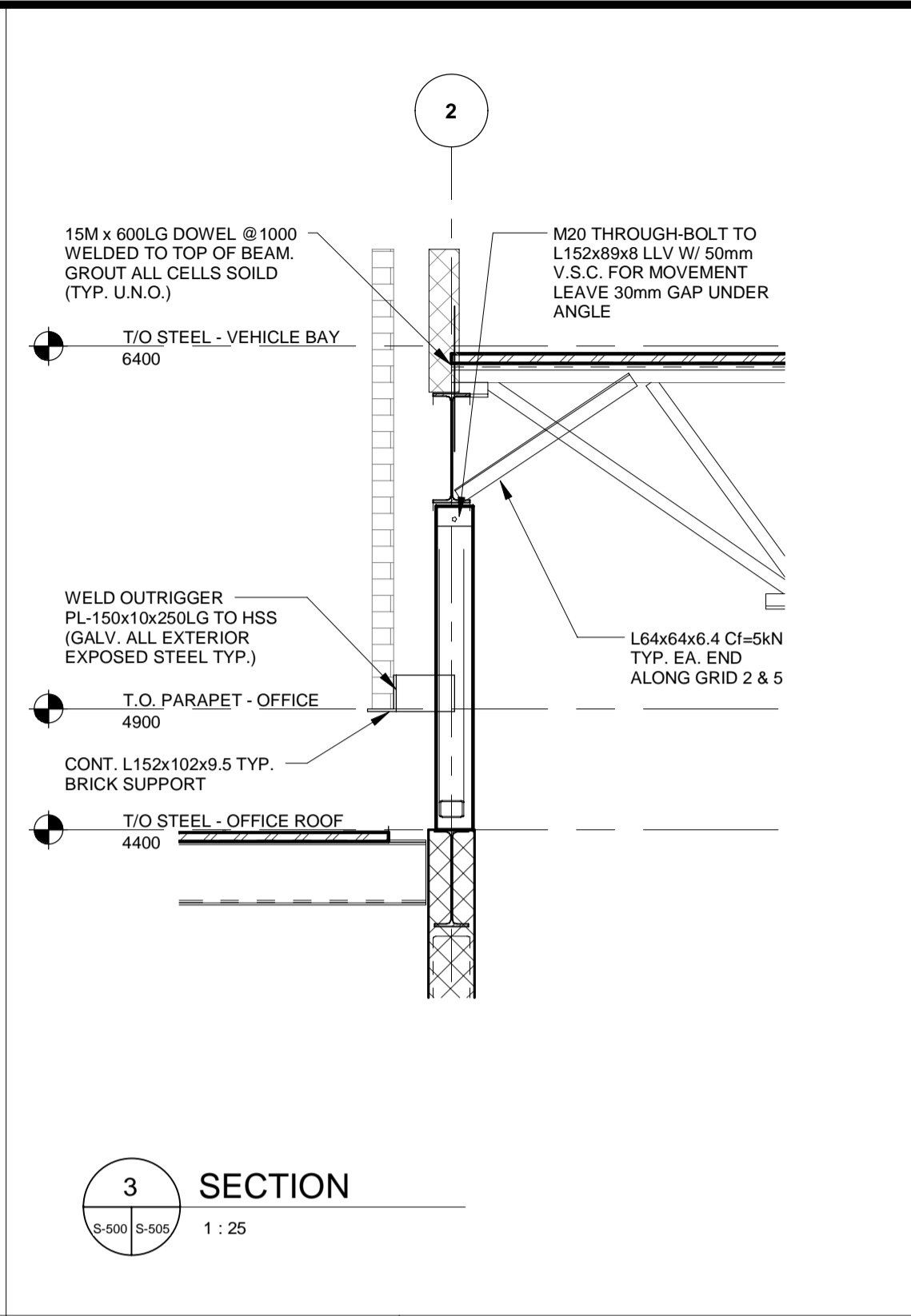
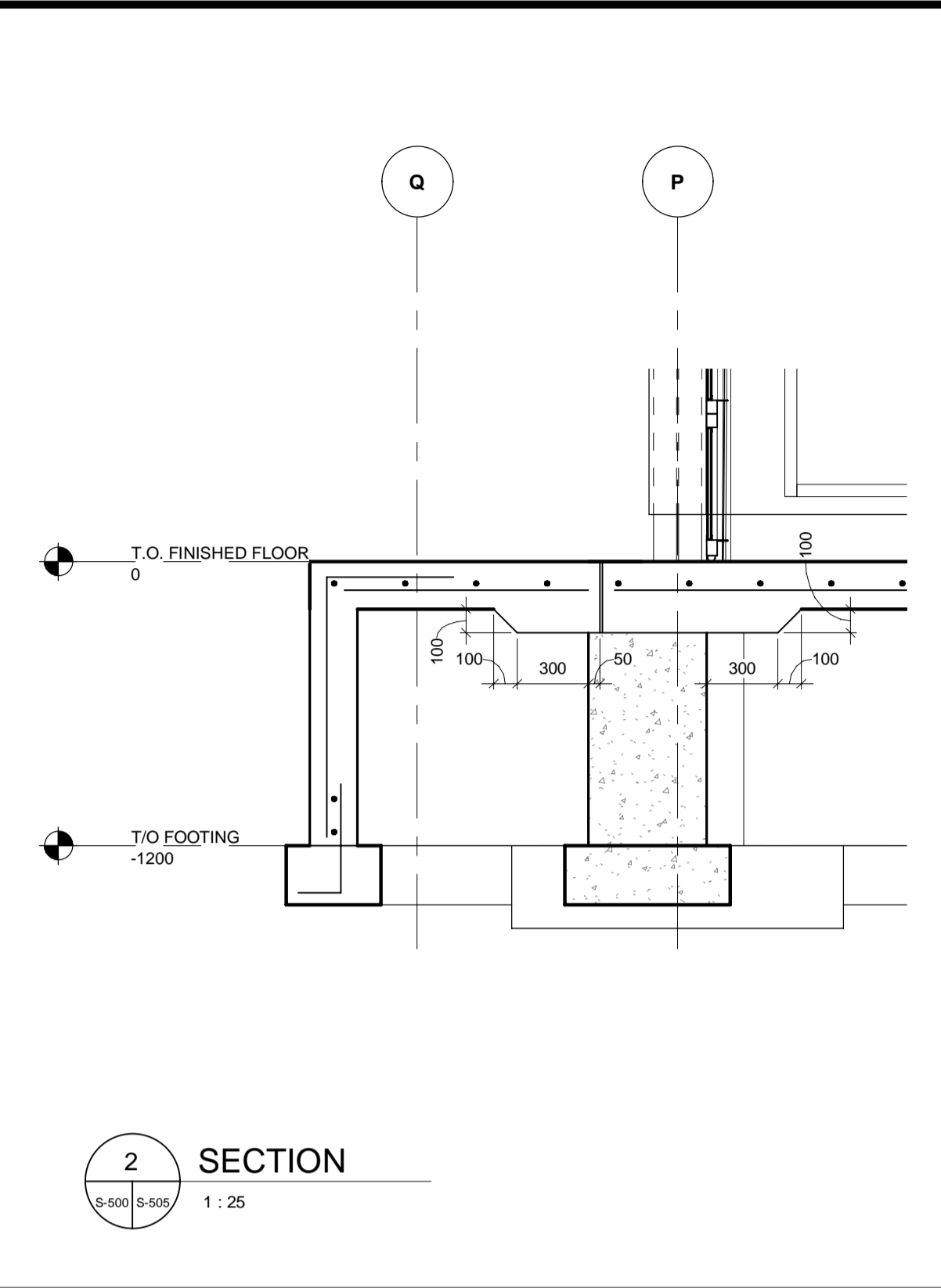
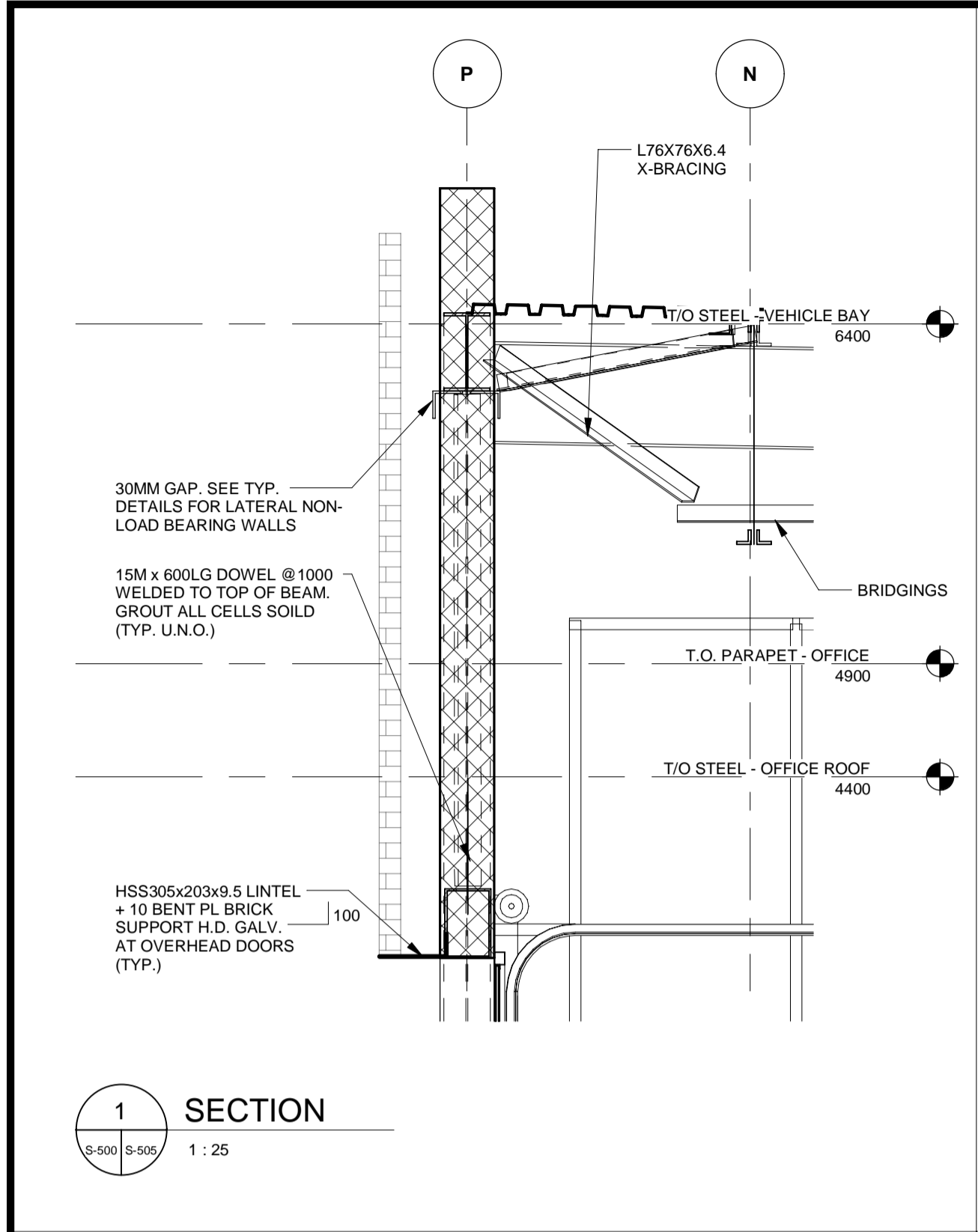
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON

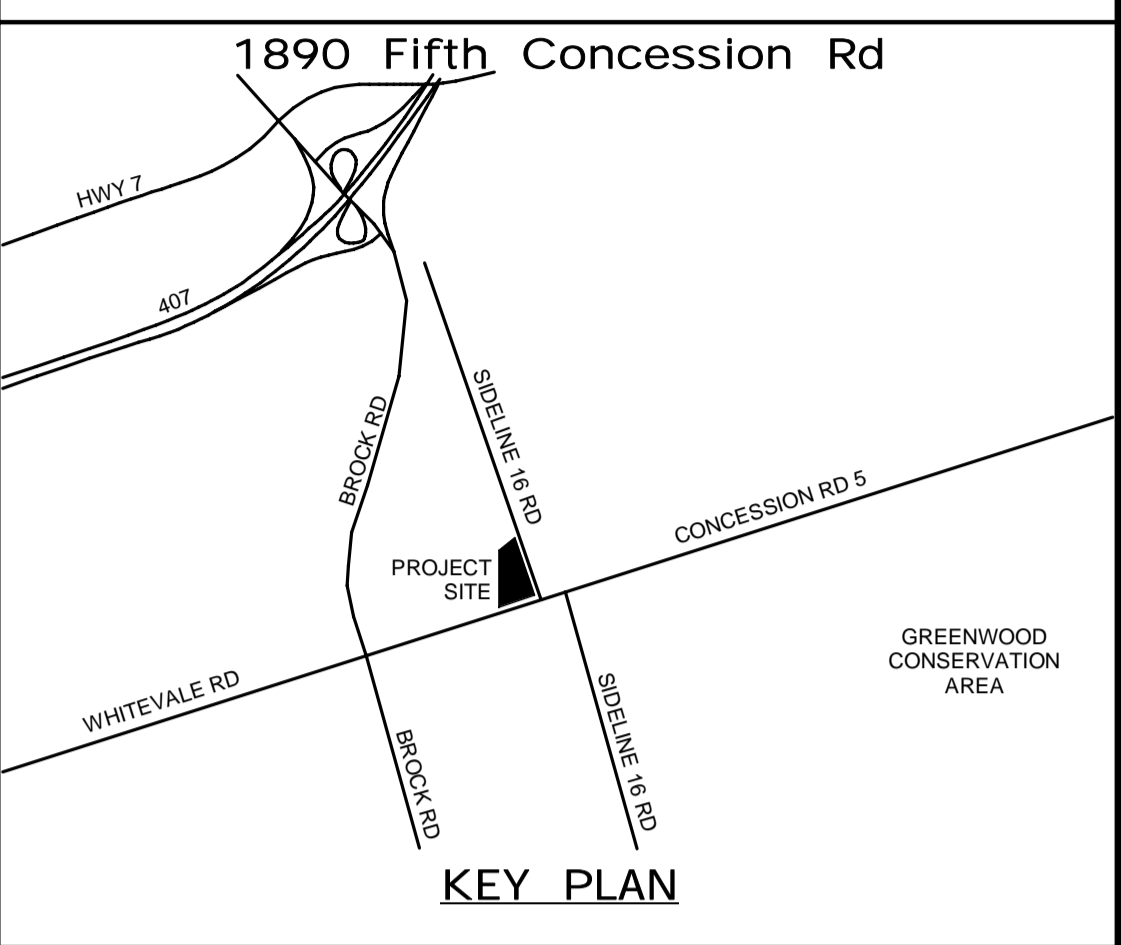
SECTIONS SHEET 5 OF 6

| | | |
|----------------------------|--------------------|-------------------------------------|
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 504 | SHEET NO. |

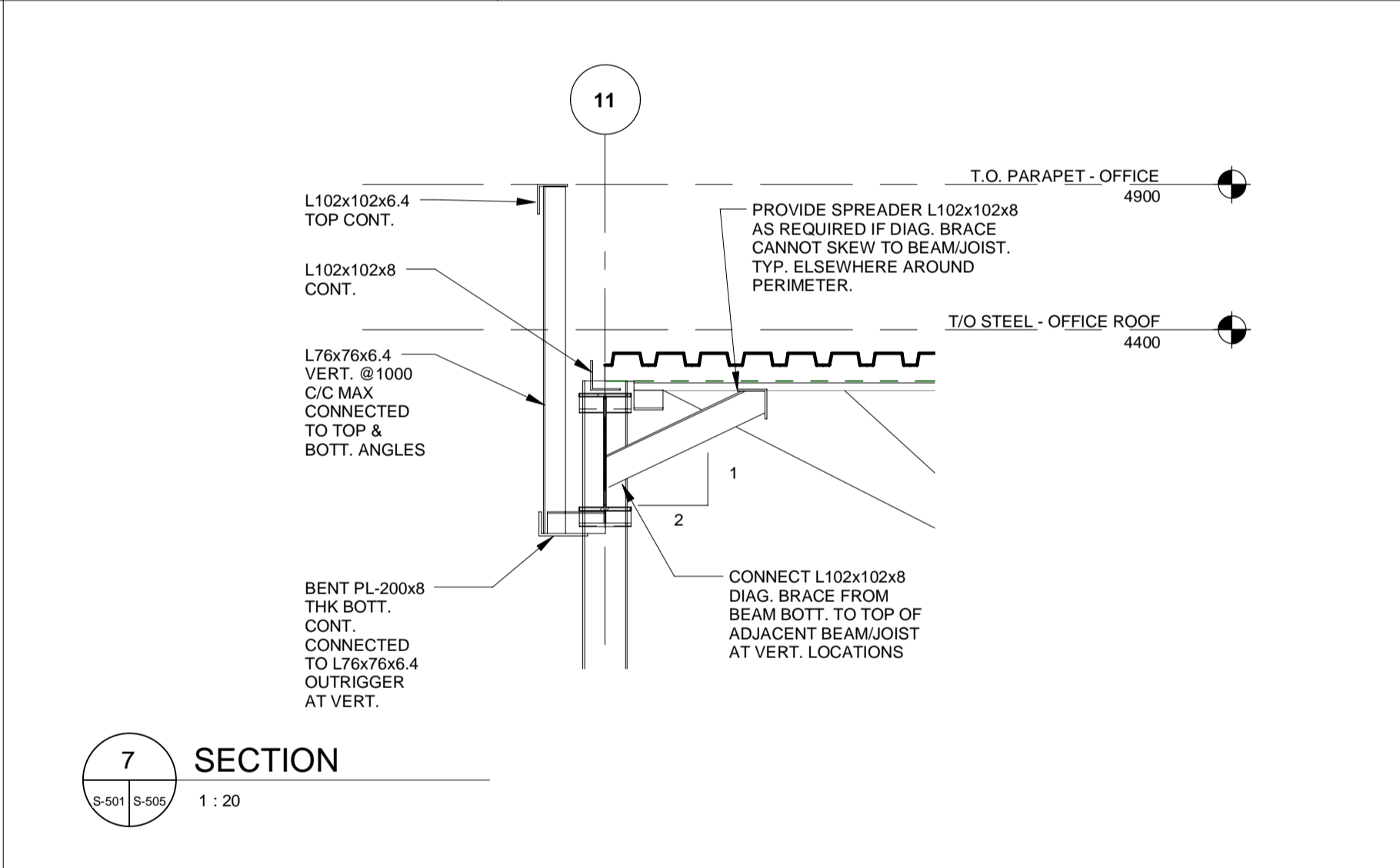
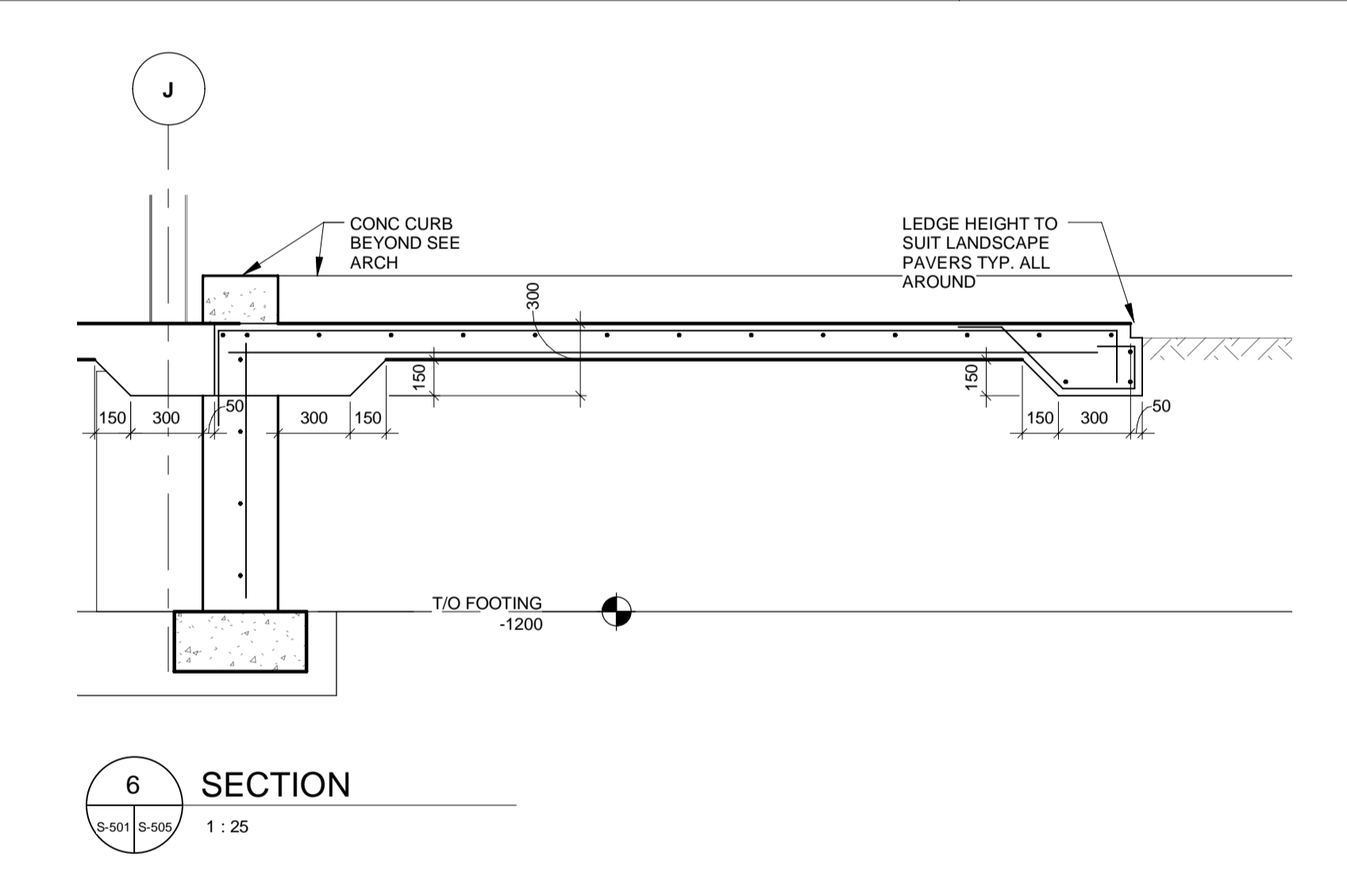
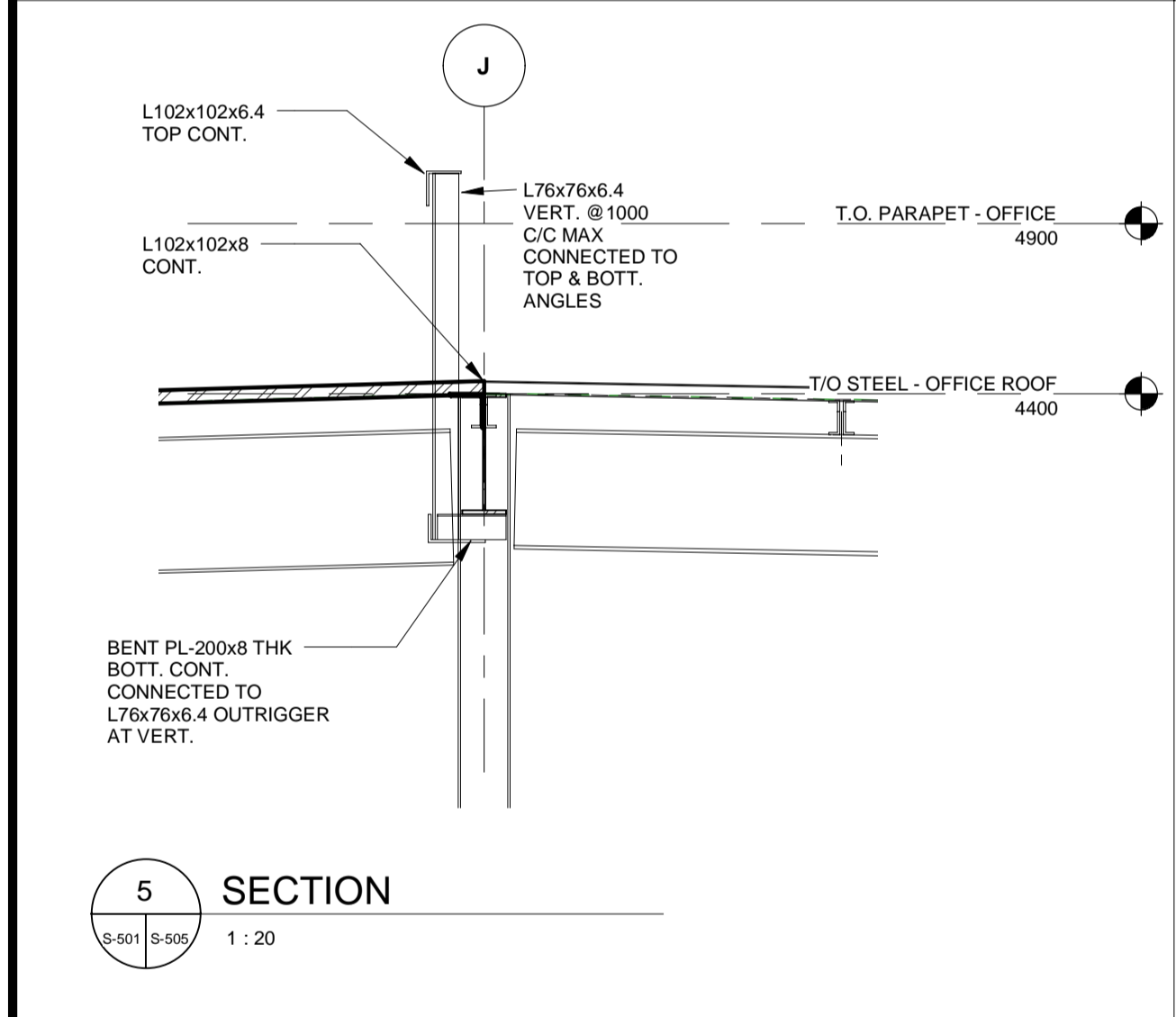
BIM 300/JBP-AMER (CAN) 60611569- Seaton RDPDS-S.rvt



ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



| CONSULTANT REVISIONS | | | |
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| NO. | DATE | NAME | REVISIONS |
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PRIME CONSULTANT
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LICENSED PROFESSIONAL ENGINEER
K.T.D. DUONG
100055126
Mar. 22/2022
PROVINCE OF ONTARIO

SUB CONSULTANT

| | |
|-------------------|---------------------------------|
| DESIGN BY: D.S. | SCALE: As Indicated |
| DRAWN BY: R.E. | DATE: 06/14/21 |
| CHECKED BY: C.Y. | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: K.D. | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
|--------------------|----------|------|---------------------------|
| NO | DATE | NAME | REVISIONS |
| 3 | 03/22/22 | | ISSUED FOR CONSTRUCTION |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW PARAMEDICS STATION - SEATON


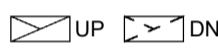
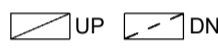
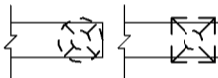
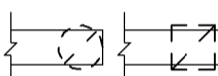
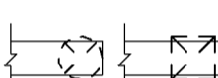
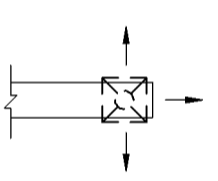



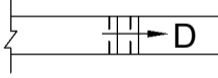
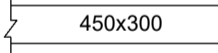

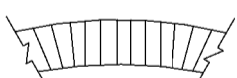
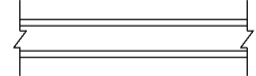










SECTIONS SHEET 6 OF 6








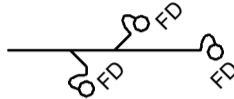
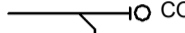



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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. S- 505 | SHEET NO. |

BIM 300/JBP-AMER (CAN) 60611569-SEaton RDFS-S.rvt












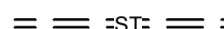
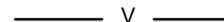





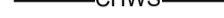
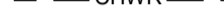













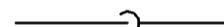



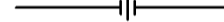



















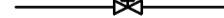
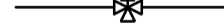
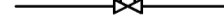






| ABBREVIATIONS | |
|---------------|--|
| Symbol | Description |
| AC | AIR CURTAIN |
| AD | AREA DRAIN |
| AFF | ABOVE FINISHED FLOOR |
| AG | AIR GAP |
| AMP | AMPERAGE |
| AP | ACCESS PANEL |
| ARI | AIR CONDITIONING AND REFRIGERATION INSTITUTE |
| AS | AIR SEPARATOR |
| ASHRAE | AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| ASPE | AMERICAN SOCIETY OF PLUMBING ENGINEERS |
| AV | AIR VENT |
| BBD | BACK DRAFT DAMPER |
| BFP | BACKFLOW PREVENTER |
| BHP | BRAKE HORSE POWER |
| BT | BATHTUB |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CAV | CONTROL AIR VOLUME |
| CBV | CIRCUIT BALANCE VALVE |
| CC | COOLING COIL |
| CD | CONDENSATE DRAIN |
| CFM | CUBIC FEET PER MINUTE |
| CO | CLEAN OUT, OR CARBON MONOXIDE |
| CO2 | CARBON DIOXIDE |
| CTE | CONNECT TO EXISTING |
| CV | CONTROL VALVE |
| DB | DRY BULB |
| dB | DECIBELS |
| DCBP | DOUBLE CHECK BACKFLOW PREVENTER |
| DCW | DOMESTIC COLD WATER |
| DDC | DIRECT DIGITAL CONTROLS |
| DEG | DEGREE |
| DF | DESTRATIFICATION FANS |
| DHW | DOMESTIC HOT WATER |
| DHWR | DOMESTIC HOT WATER RECIRC |
| DIA | DIAMETER |
| DN | DOWN |
| DP | DEW POINT TEMPERATURE |
| DPS | DIFFERENTIAL PRESSURE SENSOR |
| DWG | DRAWING |
| DWV | DRAIN WASTE VENT |
| DX | DIRECT EXPANSION |
| E/A | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| EER | ENERGY EFFICIENCY RATIO |
| EL | ELEVATION |
| EL | ENVIRONMENTAL PROTECTION AGENCY |
| EPACT | ENERGY POLICY ACT |
| ESH | EMERGENCY SHOWER |
| ESP | EXTERNAL STATIC PRESSURE |
| EW | EMERGENCY EYEWASH |
| EWT | ENTERING WATER TEMPERATURE |
| FD | FIRE DAMPER |
| FC | FAN CONTROLLER |
| FD | FLOOR DRAIN |
| FFD | FUNNEL FLOOR DRAIN |
| FOR | FUEL OIL RETURN |
| FOS | FUEL OIL SUPPLY |
| FOV | FUEL OIL VENT |
| FPM | FEET PER MINUTE |
| FPS | FEET PER SECOND |
| FS | FLOW SWITCH |
| FT | FEET |
| FU | FIXTURE UNIT |
| G | NATURAL GAS |
| GA | GALLON |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| HB | HOSE BIBB |
| HC | HEATING COIL |
| HD | HEAD |
| HDA | HAND/OFF/AUTOMATIC |
| HP | HORSE POWER |
| HR | HOUR |
| HYD | HYDRANT |
| IO | INPUT/OUTPUT |
| IN | INCHES |
| IN HG | INCHES OF MERCURY |
| IN WG | INCH WATER COLUMN |
| IN WG | INCH WATER GAUGE |
| INV | INVERT |
| KS | KITCHEN SINK |
| kW | KILOWATT |
| kWh | KILOWATT HOUR |
| L | LITER |
| L/s | LITERS PER SECOND |
| LAT | LEAVING AIR TEMPERATURE |
| LAV | LAVATORY |
| LB | POUNDS |
| LB/HR | POUNDS PER HOUR |
| LWT | LEAVING WATER TEMPERATURE |
| m | METER |
| ms | METERS PER SECOND |
| MAT | MIXED AIR TEMPERATURE |
| MAV | MANUAL AIR VENT |
| MAX | MAXIMUM |
| MBH | 1000 BRITISH THERMAL UNITS PER HOUR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MO | MOTOR OPERATED DAMPER |
| MERV | MINIMUM EFFICIENCY REPORTING VALUE |
| MH | MANHOLE |
| MIN | MINIMUM |
| mm | MILLIMETER |
| MOCP | MINIMUM OVER CURRENT PROTECTION |
| N/A | NOT APPLICABLE |
| NC | NOISE CRITERIA, OR NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NOM | NOMINAL |
| Nox | NITROUS OXIDES |
| NPW | NON POTABLE WATER |
| NTS | NOT TO SCALE |
| O/A | OUTSIDE AIR |
| OC | ON CENTER |
| Pa | PASCAL |
| PD | PRESSURE DROP, OR PUMP DISCHARGE |
| PF | PENAL FIXTURE |
| PG | PRESSURE GAUGE |
| PPM | PARTS PER MILLION |
| PRV | PRESSURE REDUCING / REGULATING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| PSIA | POUNDS PER SQUARE INCH - ABSOLUTE |
| PSIG | POUNDS PER SQUARE INCH - GAUGE |
| PTRV | PRESSURE TEMPERATURE RELIEF VALVE |
| R/A | RETURN AIR |
| RAT | RETURN AIR TEMPERATURE |
| RD | ROOF DRAIN, OR RELIEF DAMPER |
| RH | RELATIVE HUMIDITY |
| RHC | REHEAT COIL |

| ABBREVIATIONS | |
|---------------|---|
| Symbol | Description |
| RLA | RUN LOAD AMPERE |
| RO | REVERSE OSMOSIS |
| RPM | REVOLUTIONS PER MINUTE |
| RWL | RAIN WATER LEADER |
| S.I. | SANITARY INVERT |
| S.W.I. | STORM WATER INVERT |
| SJA | SUPPLY AIR |
| SCFM | STANDARD CUBIC FEET PER MINUTE |
| SMACNA | SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION |
| SP | STATIC PRESSURE |
| SQ FT | SQUARE FEET |
| SV | SUPERVISED VALVE |
| TD | TRENCH DRAIN |
| TEMP | TEMPERATURE |
| TMV | THERMOSTATIC MIXING VALVE |
| TP | TRAP PRIMER |
| TSP | TOTAL STATIC PRESSURE |
| TSTAT | THERMOSTAT |
| Typ | TYPICAL |
| U/G | UNDERGROUND |
| UL / ULC | UNDERWRITERS LABORATORY / CANADA |
| VAC | VACUUM |
| VAV | VARIABLE AIR VOLUME |
| VB | VACUUM BREAKER |
| VEF | VARIABLE FREQUENCY DRIVE |
| VTR | VENT THROUGH ROOF |
| W | WATTS |
| Wb | WET BULB |
| WC | WATER CLOSET |
| WG | WATER GAUGE |
| WH | NON-FREEZE WATER HYDRANT |
| WHA | WATER HAMMER ARRESTER |
| WPD | WATER PRESSURE DROP |
| WS | WATER SOFTENER |
| °C | DEGREES CENTIGRADE (CELSIUS) |
| °F | DEGREES FAHRENHEIT |
| " | DIAMETER |
| ΔP | CHANGE IN PRESSURE |
| ΔT | CHANGE IN TEMPERATURE |

| SYMBOLS | |
|---|---|
|  | SUPPLY / OUTSIDE AIR DUCT (UP & DOWN) |
|  | EXHAUST DUCT (UP & DOWN) |
|  | RETURN DUCT (UP & DOWN) |
|  | ROUND AND SQUARE CEILING SUPPLY OUTLET |
|  | ROUND AND SQUARE CEILING RETURN INLET |
|  | ROUND AND SQUARE CEILING EXHAUST INLET |
|  | SQUARE DIRECTIONAL CEILING SUPPLY OUTLET |
|  | WALL SUPPLY OUTLET |
|  | WALL RETURN / EXHAUST INLET |
|  | INCLINED RISE, IN DIRECTION OF AIR FLOW |
|  | INCLINED DROP, IN DIRECTION OF AIR FLOW |
|  | NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH) |
|  | LOUVER OPENING |
|  | FLEXIBLE DUCTWORK |
|  | DUCT WITH ACOUSTIC LINING |
|  | THERMOSTAT |
|  | THERMOSTAT WITH COVER |
|  | TEMPERATURE SENSOR |
|  | HUMIDISTAT |
|  | DIFFERENTIAL PRESSURE SENSOR |
|  | STATIC PRESSURE SENSOR |
|  | CARBON MONOXIDE SENSOR |
|  | CARBON DIOXIDE SENSOR |
|  | NITROGEN DIOXIDE SENSOR |
|  | FLOW SWITCH |

| SYMBOLS | |
|---|---------------------------------|
|  | MOTOR OPERATED DAMPER |
|  | FIRE DAMPER |
|  | SMOKE DAMPER |
|  | COMBINATION FIRE & SMOKE DAMPER |
|  | FIRE EXTINGUISHER |
|  | FIRE EXTINGUISHER, CO2 |
|  | DOUBLE CHECK FLOW PREVENTER |
|  | DRAINS ABOVE |
|  | FLOOR CLEANOUT |
|  | CLEANOUT PLUG |
|  | FLOOR DRAIN |
|  | ROOF DRAIN |

| TAGS | DESCRIPTION |
|------|--|
| | <p>VAV BOX SIZE</p> <p>MIN. AIR FLOW [L/s]</p> <p>MAX. AIR FLOW [L/s]</p> <p>REHEAT COIL</p> |
| | <p>EQUIPMENT TAG</p> <p>SEQUENTIAL NUMBER</p> |
| | <p>DIFFUSER TYPE</p> <p>NECK SIZE [mm]</p> <p>AIR FLOW [L/s]</p> |
| | <p>TYPICAL QUANTITY</p> <p>GRILLE TYPE</p> <p>GRILLE SIZE [mmxmm]</p> <p>AIR FLOW [L/s]</p> |
| | <p>CALLOUT HEAD</p> <p>DETAIL NUMBER</p> <p>REFERENCING SHEET</p> |

| SYMBOLS | | |
|---|--|---|
|  | DOMESTIC COLD WATER |  |
|  | DOMESTIC HOT WATER |  |
|  | DOMESTIC HOT WATER RETURN |  |
|  | TEMPERED WATER | |
|  | TEMPERED WATER RETURN | |
|  | SANITARY ABOVE SLAB | |
|  | SANITARY BELOW SLAB | |
|  | STORM ABOVE SLAB | |
|  | STORM BELOW SLAB | |
|  | VENT | |
|  | GRAVITY FED CONDENSATE DRAIN | |
|  | PUMPED DISCHARGE | |
|  | HOT WATER SUPPLY | |
|  | HOT WATER RETURN | |
|  | HOT WATER REVERSE RETURN | |
|  | CHILLED WATER SUPPLY | |
|  | CHILLED WATER RETURN | |
|  | GLYCOL HOT WATER SUPPLY, LOW TEMPERATURE | |
|  | GLYCOL HOT WATER RETURN, LOW TEMPERATURE | |
|  | GLYCOL WATER SUPPLY | |
|  | GLYCOL WATER RETURN | |
|  | SOFT WATER | |
|  | CONCENTRIC REDUCER OR INCREASER | |
|  | ECCENTRIC REDUCER OR INCREASER | |
|  | TOP CONNECTION, 45° OR 90° | |
|  | BOTTOM CONNECTION, 45° OR 90° | |
|  | SIDE CONNECTION | |
|  | RISER DOWN (ELBOW) | |
|  | RISER UP (ELBOW) | |
|  | RISER DOWN (IN PIPE) | |
|  | RISER UP (IN PIPE) | |
|  | RISE OR DROP IN PIPE | |
|  | ELBOW | |
|  | PIPE BREAK | |
|  | CAP ON END OF PIPE | |
|  | UNION | |
|  | MANUAL AIR VENT | |
|  | AUTOMATIC AIR VENT | |
|  | GATE VALVE OR GENERIC VALVE REFER TO SPECIFICATIONS | |
|  | BALL VALVE | |
|  | DRAIN VALVE WITH THREADED HOSE END CONNECTION | |
|  | GATE VALVE, O.S.&Y. | |
|  | BUTTERFLY VALVE | |
|  | 2-WAY BUTTERFLY VALVE | |
|  | CHECK VALVE | |
|  | ANGLE GLOBE VALVE | |
|  | PLUG VALVE | |
|  | PRESSURE REGULATING VALVE | |
|  | SOLENOID VALVE | |
|  | PRESSURE SAFETY VALVE | |
|  | VALVE IN RISE | |
|  | VALVE IN DROP | |
|  | THERMOMETER | |
|  | PRESSURE GAUGE | |
|  | PRESSURE GAUGE W/ STOPCOCK | |
|  | PLUGGED PRESSURE GAUGE CONNECTION | |
|  | TWO WAY CONTROL VALVE | |
|  | THREE WAY CONTROL VALVE | |
|  | CIRCUIT BALANCING VALVE | |
|  | EXPANSION JOINT | |
|  | PIPE/DUCT FLEXIBLE CONNECTION | |
|  | WATER METER | |
|  | CHILLED WATER REVERSE RETURN | |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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| NO. | DATE. | NAME | REVISIONS | |

PRIME CONSULTANT

AECOM

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50 Sportsworld Crossing Road, Suite
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 34

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SUB CONSULTANT

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| DESIGN BY: JB | SCALE: NTS |
| DRAWN BY: VM | DATE: 2020.04.17 |
| CHECKED BY: KA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: JC | CLIENT FILE No.: 811/20 |

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| CONTRACT REVISIONS | | | | |
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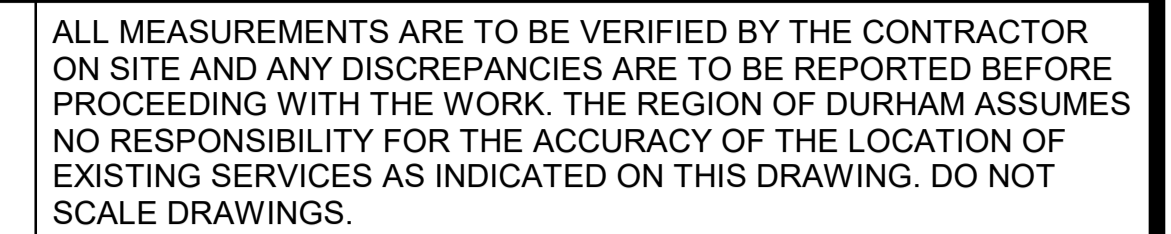


THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL LEGENDS AND DRAWING
LIST

| | | |
|-----------------------------|----------------------|--------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-000 | SHEET NO. |



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| CONSULTANT REVISIONS | | | | |
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|-----------------------|---------------------------------|
| DESIGN BY: Designer | SCALE: 1 : 300 |
| DRAWN BY: Author | DATE: 11/11/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | |

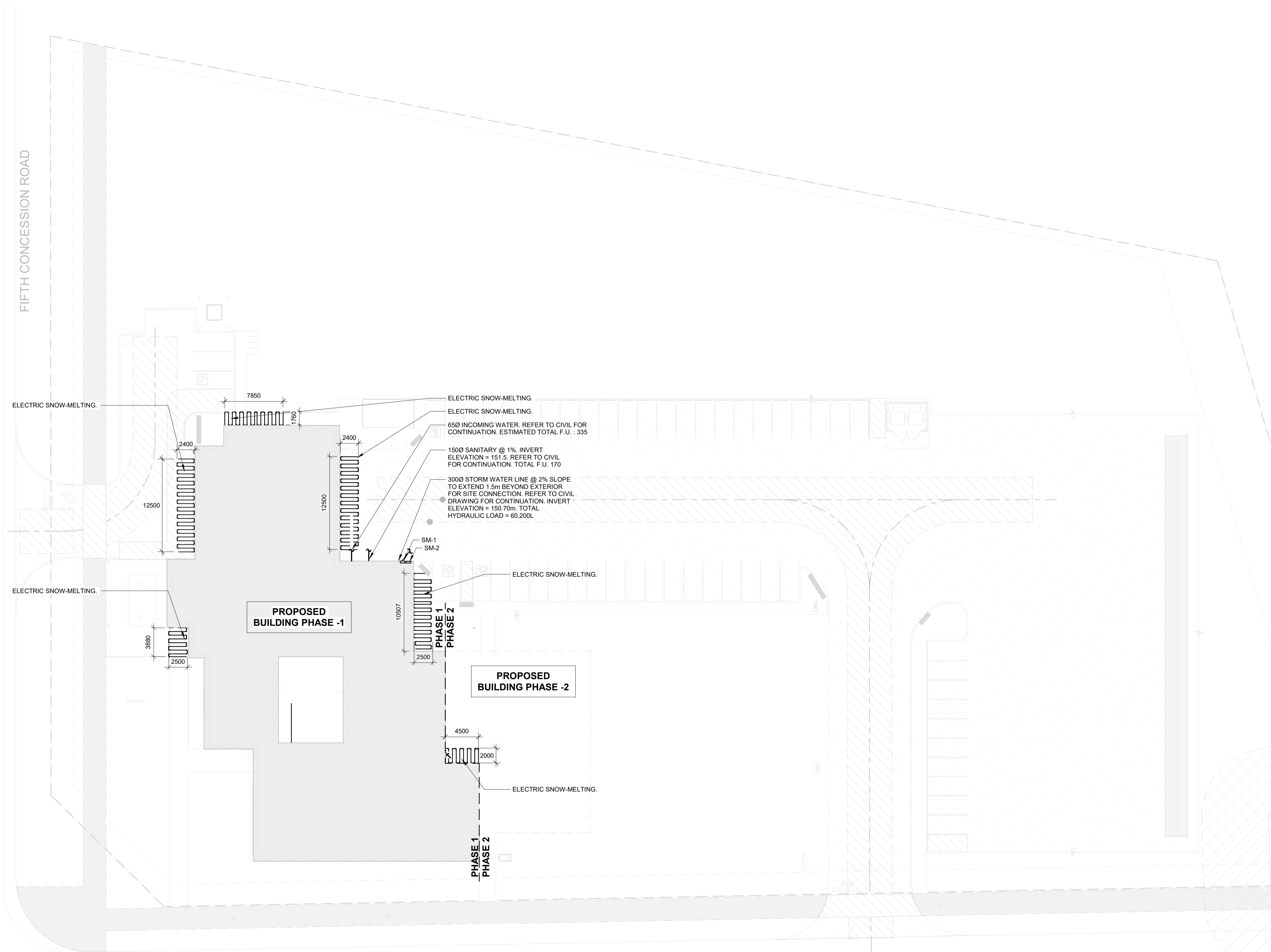
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NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING MECHANICAL SITE PLAN

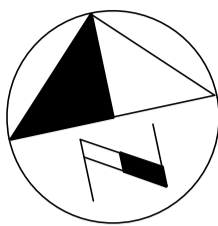
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| CONTRACT NO. T-1160-2021 | DRAWING NO. M-001 | SHEET NO. |

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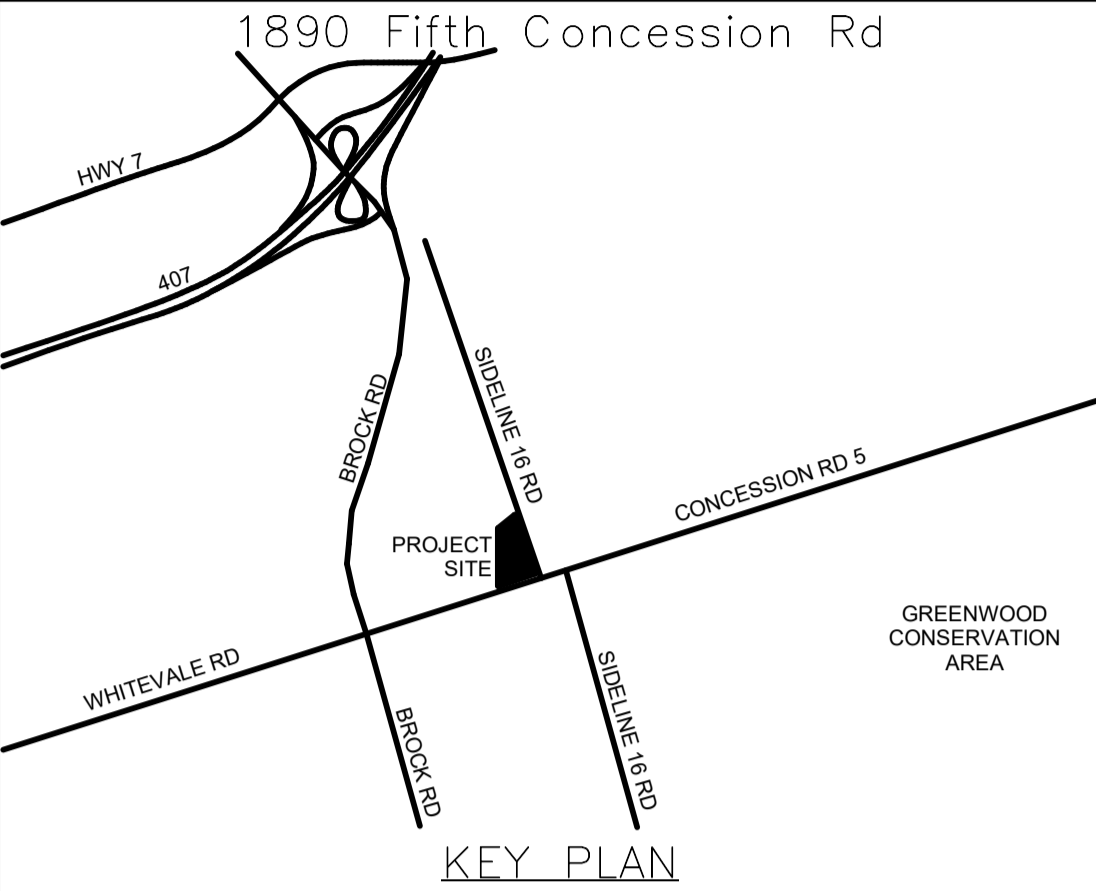


PLUMBING AND DRAINAGE NOTES

1. PROVIDE MINIMUM OF 750 PIPING FOR UNDERGROUND SANITARY.
2. PROVIDE APPROVED BACKFLOW PREVENTOR FOR ALL TRAP SEAL PRIMER SYSTEMS.
3. PROVIDE MINIMUM 1000 PIPING FOR UNDERGROUND STORMWATER DRAINAGE.
4. INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDESIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURE STEEL STRATA OR THROUGH CONCRETE BEAMS WHERE PRACTICAL. SUPPLY DUCT OF FAN COILS FC-3,4,8,9,10,11,13,19 SHALL BE ACOUSTICALLY LINED FOR MINIMUM LENGTH OF 3 METERS.
5. PROVIDE SHUT-OFF VALVE ON ALL MIN RISERS AND AT EACH CONNECTION TO THE EQUIPMENT FOR FLOW CONTROL IN TIME OF MAINTANANCE.
6. PROVIDE COMPLETE VENTING SYSTEM IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
7. PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SANITARY AND STORM STACK THAT CONNECTS TO A HORIZONTAL PIPE.
8. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING FIXTURE VENTS TO INDICATED BUILDING VENT TERMINATION(S)
8. ALL PLUMBING FIXTURES AND DRAINS SHALL BE P-TRAPPED AND VENTED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
9. THE CONTRACTOR SHALL PROVIDE A TRAP SEAL PRIMER AS SPECIFIED FOR ALL FLOOR DRAINS, FUNNEL FLOOR DRAINS, PIT DRAINS AND HUB DRAINS AS MAY BE APPLICABLE. COORDINATE ELECTRICAL TRAP SEAL PRIMERS WITH THE ELECTRICAL TRADE(S).
10. PIPING SHALL NOT PASS DIRECTLY ABOVE THE ELECTRICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE DRAINAGE PAN BELOW THE PIPING AND PROVIDE DISCHARGE FROM THE DRAINAGE PAN TO THE NEAREST FFD.



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| CONSULTANT REVISIONS | | | |
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PRIME CONSULTANT

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50 Sportsworld Crossing Road, Suite 290
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519 650 5313 tel 519 650 3424 fax
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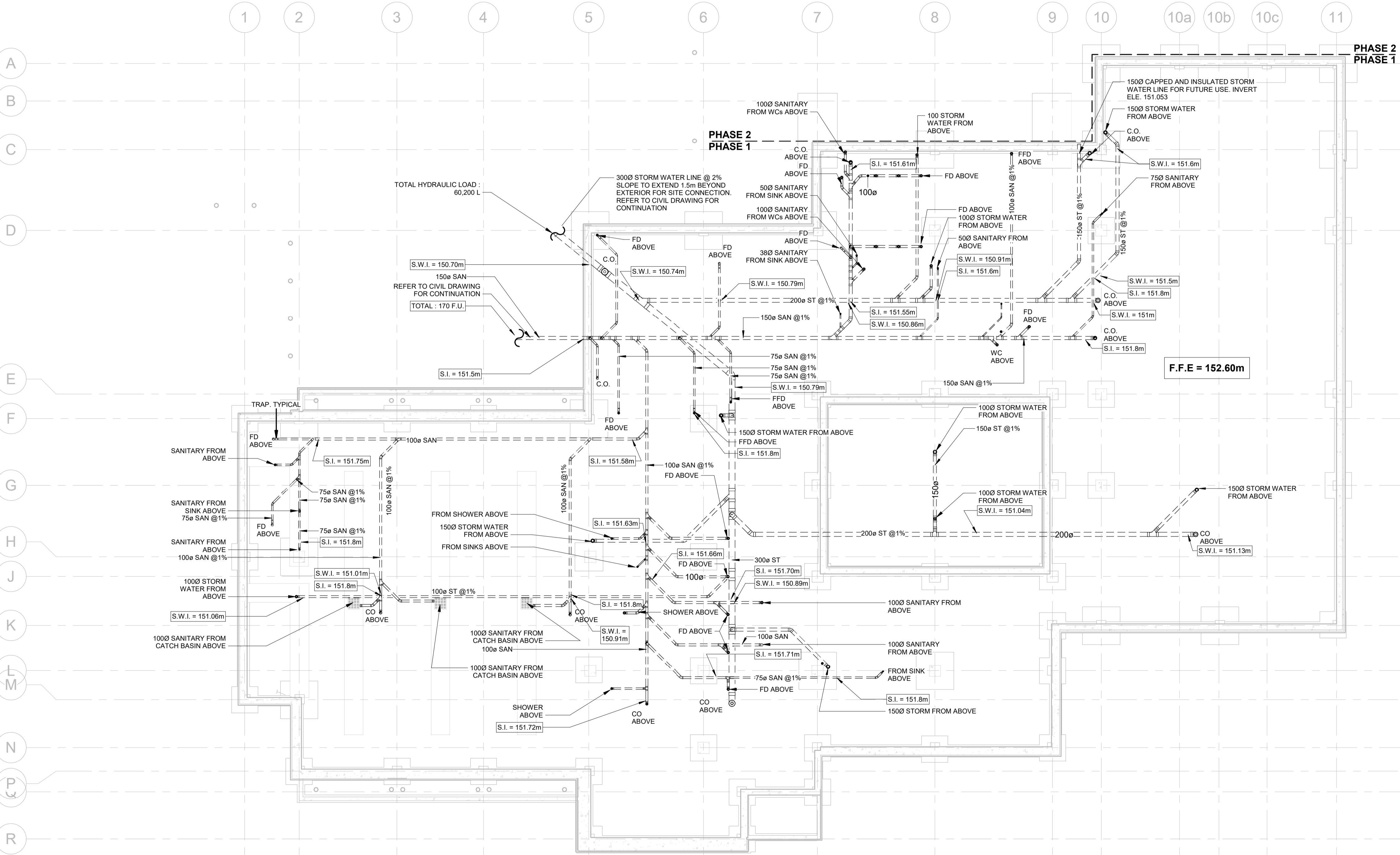
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| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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| NO | DATE | NAME | REVISIONS |
| 2 | 03/14/22 | ISSUED FOR CONSTRUCTION | |
| 1 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| 0 | 09/22/21 | ISSUED FOR TENDER | |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
UNDERSLAB PLAN – DRAINAGE

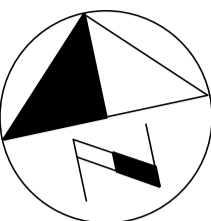
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| CONTRACT NO. T-1160-2021 | DRAWING NO. M-100 | SHEET NO. |



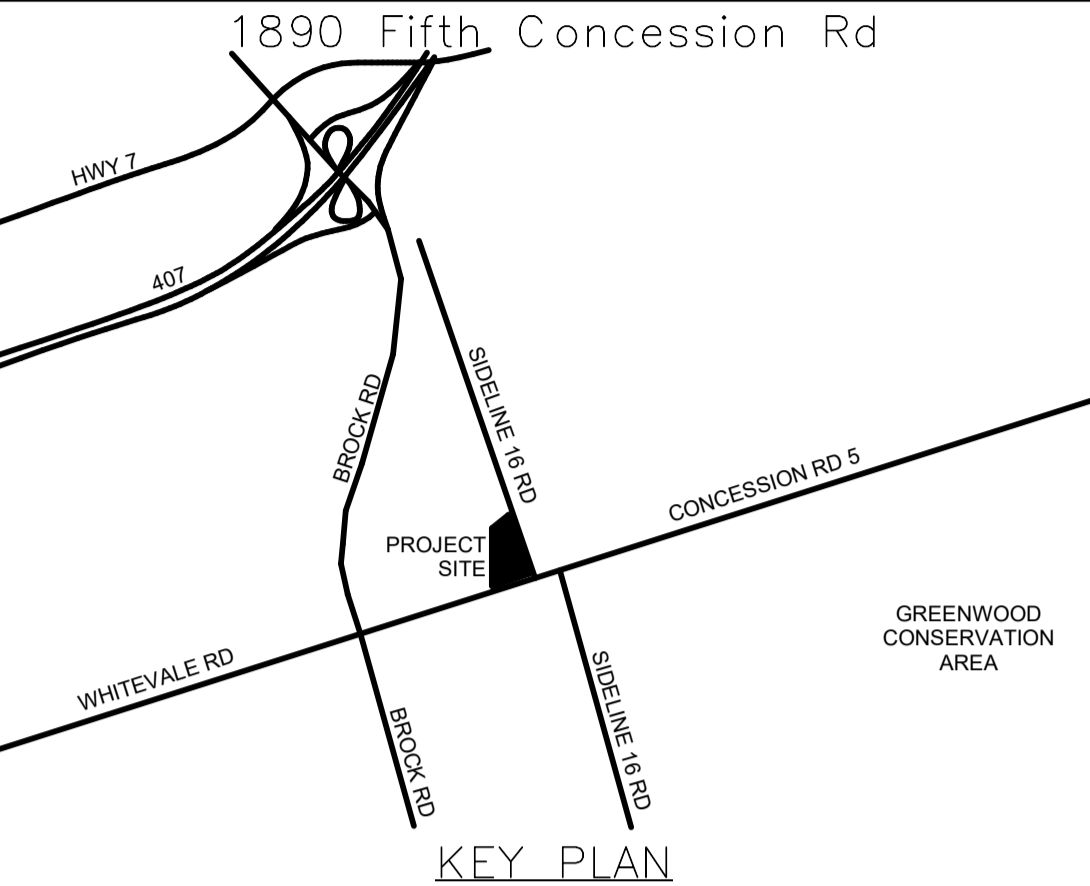
1 UNDERSLAB FLOOR PLAN - OVERALL DRAINAGE

PLUMBING AND DRAINAGE NOTES

1. PROVIDE MINIMUM OF 750 PIPING FOR UNDERGROUND SANITARY.
2. PROVIDE APPROVED BACKFLOW PREVENTOR FOR ALL TRAP SEAL PRIMER SYSTEMS.
3. PROVIDE MINIMUM 1000 PIPING FOR UNDERGROUND STORMWATER DRAINAGE.
4. INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDESIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURE STEEL STRATA OR THROUGH CONCRETE BEAMS WHERE PRACTICAL. SUPPLY DUCT OF FAN COILS FC-3,4,8,9,10,11,13,19 SHALL BE ACOUSTICALLY LINED FOR MINIMUM LENGTH OF 3 METERS.
5. PROVIDE SHUT-OFF VALVE ON ALL MIN RISERS AND AT EACH CONNECTION TO THE EQUIPMENT FOR FLOW CONTROL IN TIME OF MAINTANANCE.
6. PROVIDE COMPLETE VENTING SYSTEM IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
7. PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SANITARY AND STORM STACK THAT CONNECTS TO A HORIZONTAL PIPE.
8. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING FIXTURE VENTS TO INDICATED BUILDING VENT TERMINATION(S).
8. ALL PLUMBING FIXTURES AND DRAINS SHALL BE P-TRAPPED AND VENTED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
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10. PIPING SHALL NOT PASS DIRECTLY ABOVE THE ELECTRICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE DRAINAGE PAN BELOW THE PIPING AND PROVIDE DISCHARGE FROM THE DRAINAGE PAN TO THE NEAREST FFD.



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519 650 5313 tel 519 650 3424 fax
www.aecom.com

| SUB CONSULTANT | |
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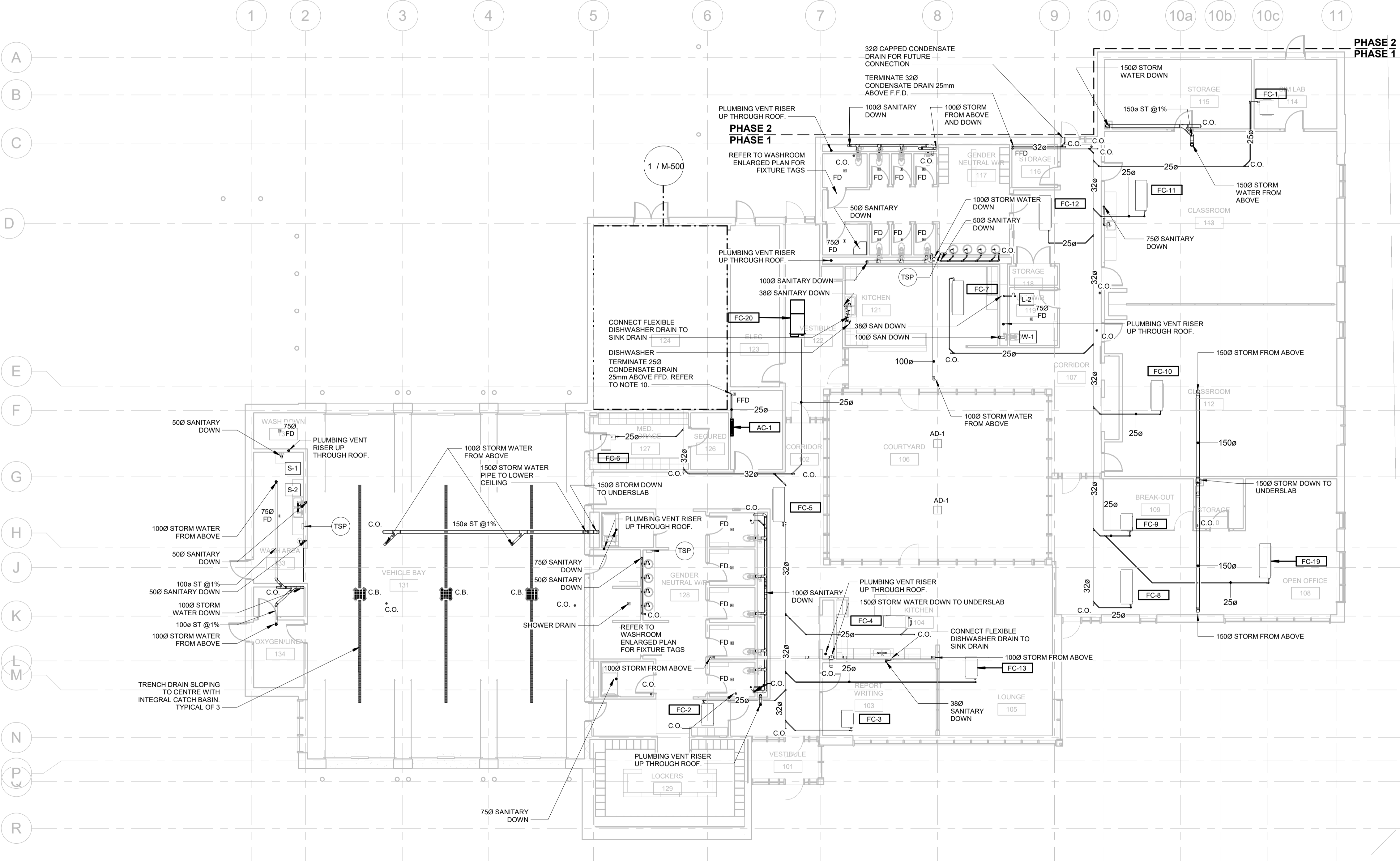
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| DESIGN BY: Designer | SCALE: As indicated |
| DRAWN BY: Author | DATE: 10/27/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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| NO | DATE | NAME | REVISIONS |
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| 1 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 0 | 09/22/21 | | ISSUED FOR TENDER |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
FLOOR PLAN – DRAINAGE

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-101 | SHEET NO. |



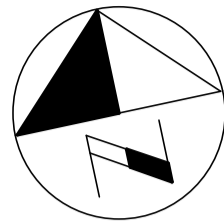
1 GROUND FLOOR PLAN - OVERALL DRAINAGE

M-101 1 : 125

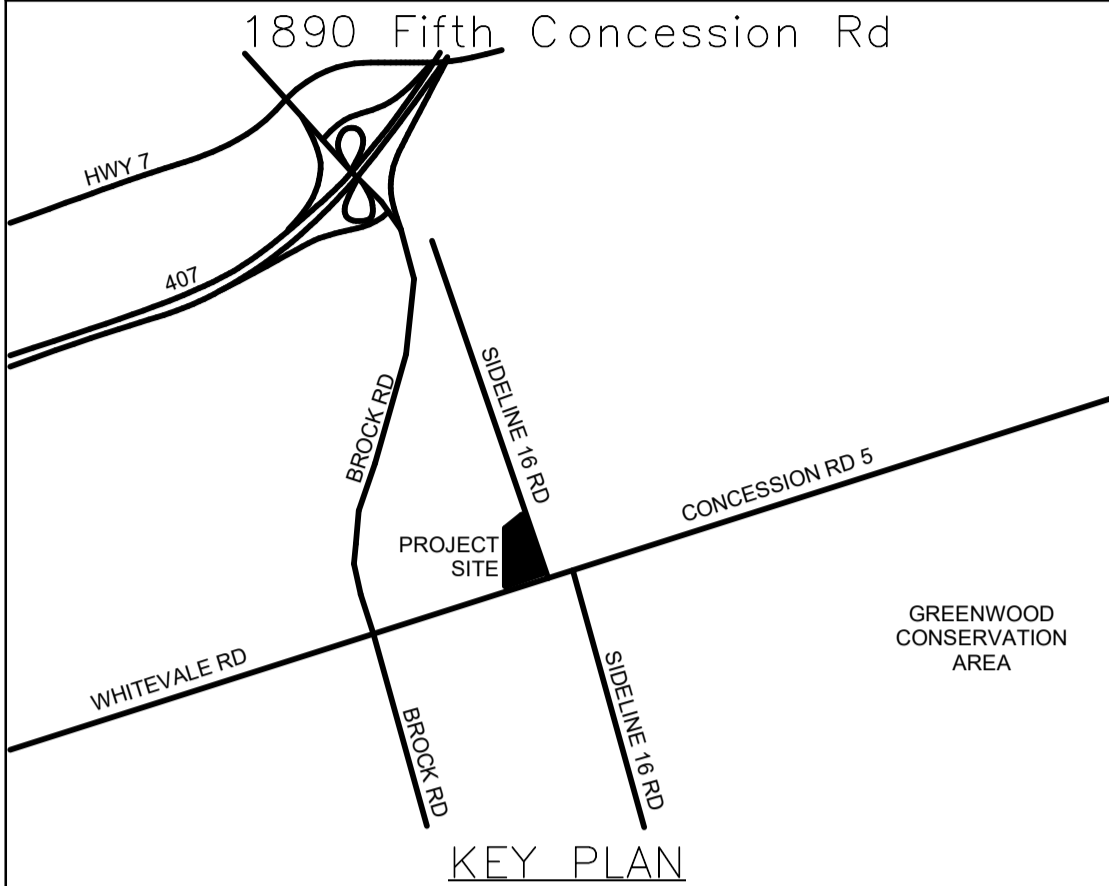
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PLUMBING AND DRAINAGE NOTES

1. PROVIDE MINIMUM OF 750 PIPING FOR UNDERGROUND SANITARY.
2. PROVIDE APPROVED BACKFLOW PREVENTOR FOR ALL TRAP SEAL PRIMER SYSTEMS.
3. PROVIDE MINIMUM 1000 PIPING FOR UNDERGROUND STORMWATER DRAINAGE.
4. INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDESIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURE STEEL STRATA OR THROUGH CONCRETE BEAMS WHERE PRACTICAL. SUPPLY DUCT OF FAN COILS FC-3,4,8,9,10,11,13,19 SHALL BE ACOUSTICALLY LINED FOR MINIMUM LENGTH OF 3 METERS.
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519 650 5313 tel 519 650 3424 fax
www.aecom.com

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| DESIGN BY: JB | SCALE: As indicated |
| DRAWN BY: VM | DATE: 10/27/20 |
| CHECKED BY: SH | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: SH | CLIENT FILE No.: 811/20 |

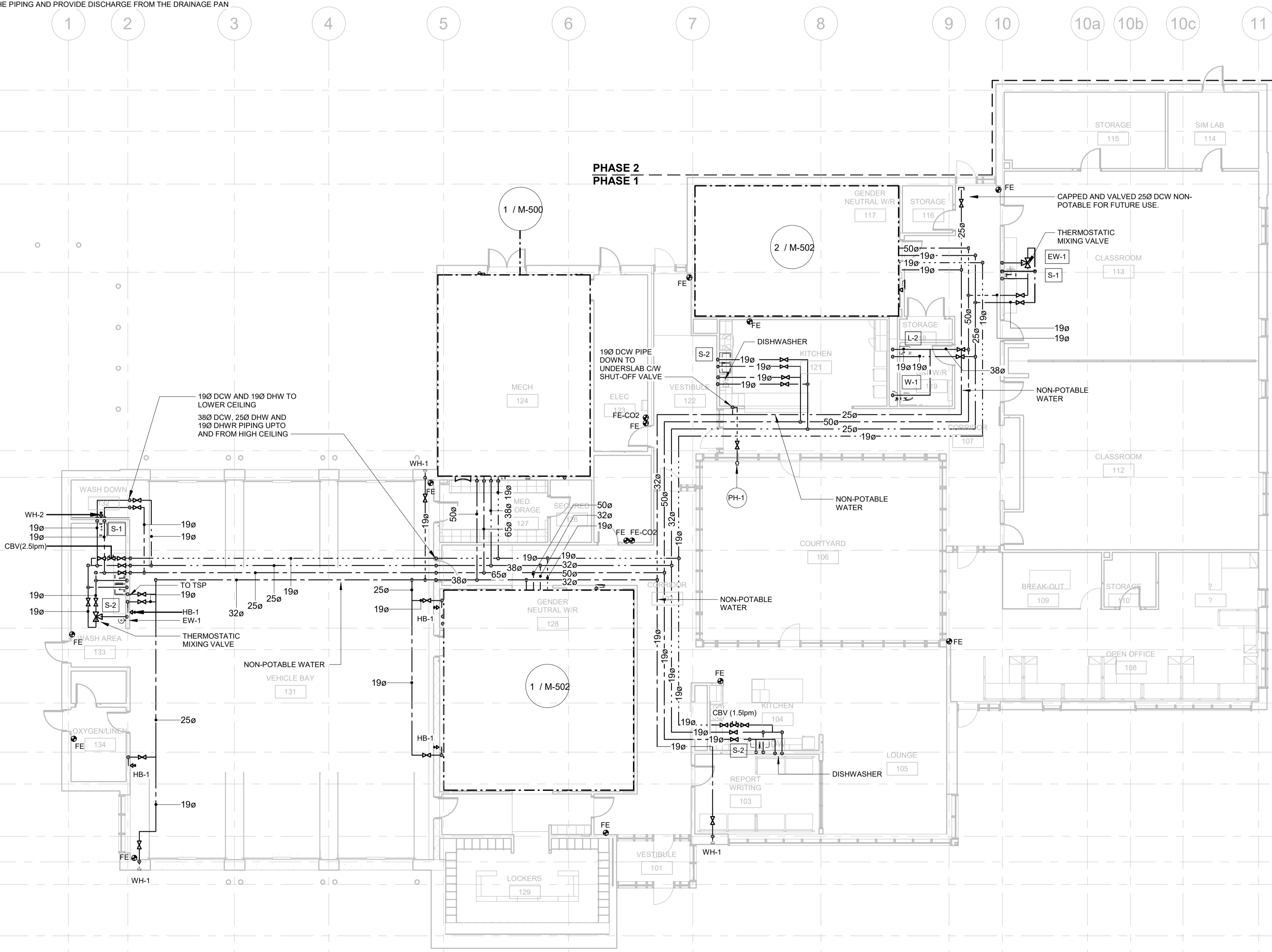
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| 2 | 03/14/22 | ISSUED FOR CONSTRUCTION | |
| 1 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| 0 | 09/22/21 | ISSUED FOR TENDER | |
| NO | DATE | NAME | REVISIONS |

THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

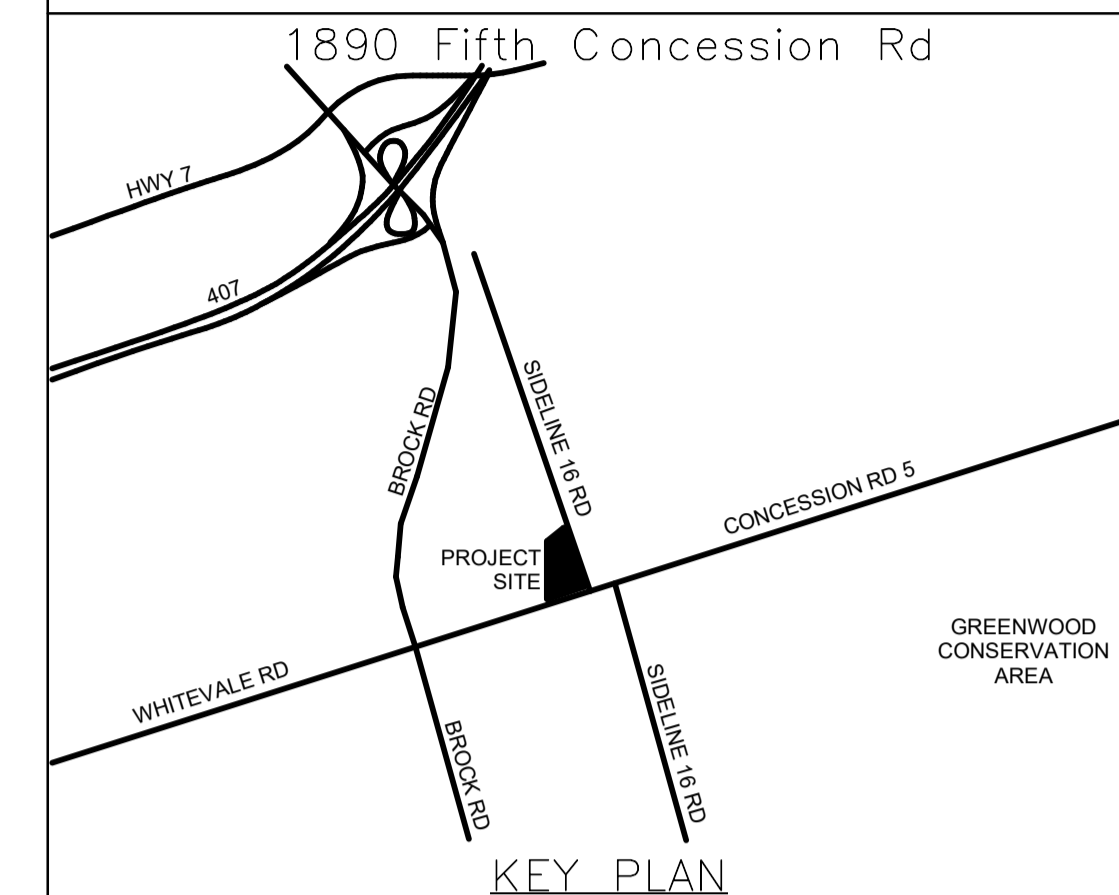
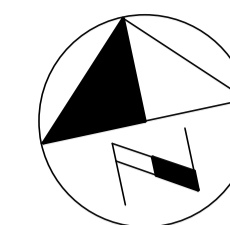
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
FLOOR PLAN – PLUMBING & FIRE
PROTECTION

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-200 | SHEET NO. |

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1. PROVIDE SILVER COLOURED GRAFFY BACKDRAFT GRATE FOR RANGE HOOD AND WASHROOM EXHAUST. (TYPICAL OF 3) INSTALL AT 3500 AFF
2. DUCT DOWN TO 300MM A.F.F. COMPLETE WITH BALANCING DAMPER. TERMINATE AT E3 GRILLE..
3. 3500 TRANSFER DUCT TO BE 300X300 UNLESS INDICATED OTHERWISE. PROVIDE ACOUSTICALLY LINED DUCT FOR ALL TRANSFER AIR DUCTS.
4. RETURN AIR PLENUMS OF FAN COIL TO BE ACOUSTICALLY LINED COMPLETE WITH MITERED SINGLE THICKNESS VANE ELBOW. FOR SIZE, REFER TO MANUFACTURER SPECIFICATION. (TYPICAL FOR ALL FAN COILS)
5. PROVIDE ACCESS DOORS FOR ALL FAN COILS, VAV TERMINAL BOXES AND BALANCING DAMPERS IN AREAS WITHOUT T-BAR CEILING.
6. INSTALL GAS DETECTORS OF VEHICLE BAY AT 1500mm A.F.F.
7. ROOM THERMOSTATS OF FOLLOWING FAN COIL UNITS SHALL HAVE INTEGRATED RELATIVE HUMIDITY SENSOR AND CO2 SENSOR: FC-3,4,5,9,13&19
8. ROOM THERMOSTATS OF FOLLOWING FAN COIL UNITS SHALL HAVE INTEGRATED RELATIVE HUMIDITY SENSOR, CO2 SENSOR AND OCCUPANCY SENSOR: FC-10&11
- a. AIR BALANCING AND SEQUENCING OF MOTORIZED DAMPERS:
 - a. WHEN EMS IS THE ONLY OCCUPIED SPACE OF THE BUILDING (AS DETERMINED BY THE TIME-OF-DAY SCHEDULING) GENERAL RETURN AIR DAMPER (MD-4) SHALL BE CLOSED AND WASHROOM EXHAUST AIR DAMPER (MD-5) SHALL BE FULLY OPEN.
 - b. WHEN THE ENTIRE SPACE OF THE BUILDING IS OCCUPIED (AS DETERMINED BY THE ZONE OCCUPANCY SENSORS AND TIME-OF-DAY SCHEDULING) DAMPERS (MD-3) AND (MD-5) SHALL BE FULLY OPEN AND DAMPER (MD-4) SHALL ONLY BE OPEN TO ALLOW A MAXIMUM AIRFLOW RATE OF 885 AT COMPLETION OF THE SPACE. TO RANGE THE SPEED OF SUPPLY AND RETURN FAN TO DELIVER 1755 CFM (830 LPS) TO THE VAV BOXES OF FASE-1.



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519 650 5313 tel 519 650 3424 fax
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| DESIGN BY: Designer | SCALE: As indicated |
| DRAWN BY: Author | DATE: 10/27/20 |
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| CONTRACT REVISIONS | | | | |
| | 3 | 03/14/22 | | ISSUED FOR CONSTRUCTION |
| | 2 | 10/18/21 | | ADDENDUM #1 |
| | 1 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| | 0 | 09/22/21 | | ISSUED FOR TENDER |
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THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

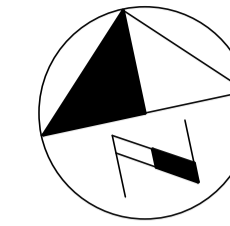
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
FIRST FLOOR PLAN – HVAC

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| CONTRACT NO. T-1160-2021 | DRAWING NO. M-300 | SHEET NO. |

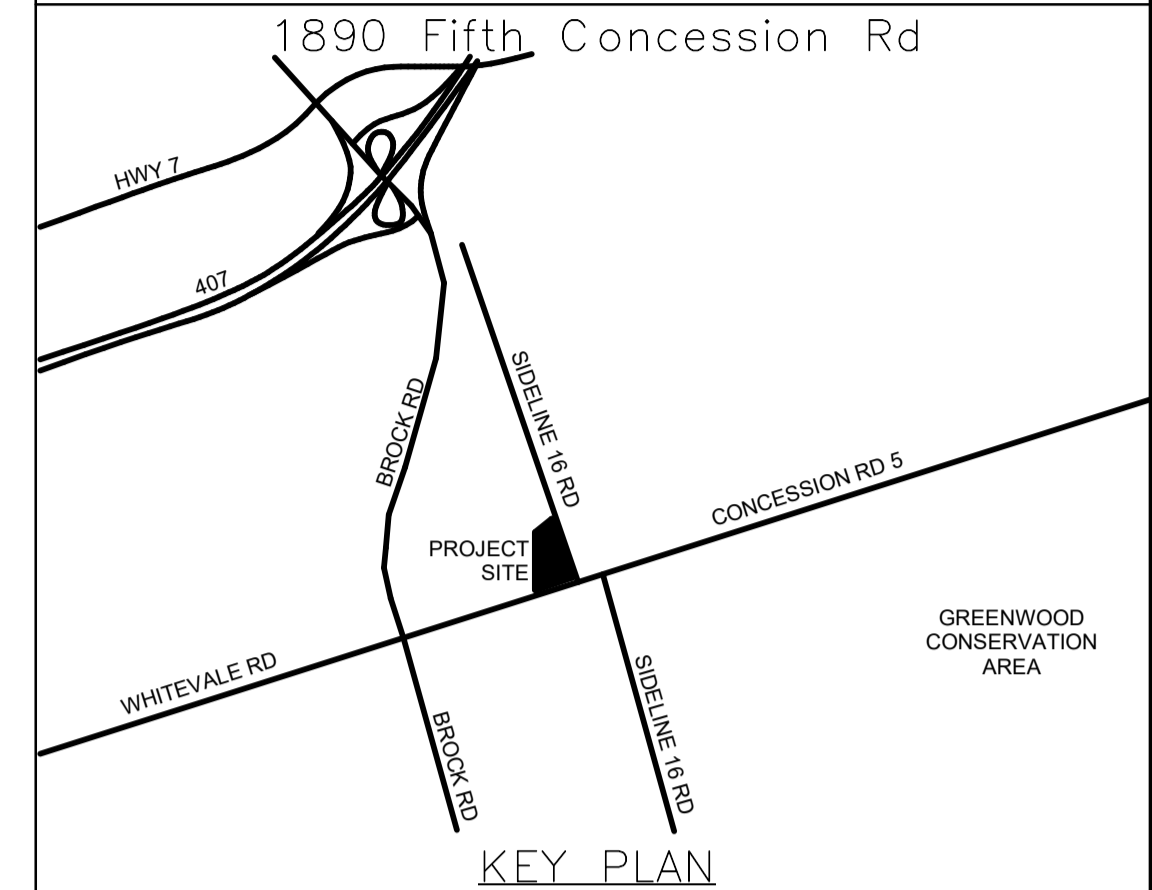
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GENERAL NOTES

- 1- SHUT OFF VALVE SHALL BE CLOSED AT COMPLETION OF PHASE 2 (TYP. OF 2).
- 2- PIPING SHALL NOT PASS DIRECTLY ABOVE THE ELECTRICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE DRAINAGE PAN BELOW ALL THE PIPING AND PROVIDE DISCHARGE FROM THE DRAINAGE PAN TO THE NEAREST FFD.
- 3- GENERAL CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR OPERATING/MAINTENANCE OF VALVES IN NON-REMOVABLE CEILING TYPES (GYPSUM BOARD AND WOOD FEATURE CEILING).
- 4- INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION. ROUTE PIPING WITHIN STRUCTURE STEEL STRATA OR THROUGH CONCRETE BEAMS WHERE PRACTICAL.



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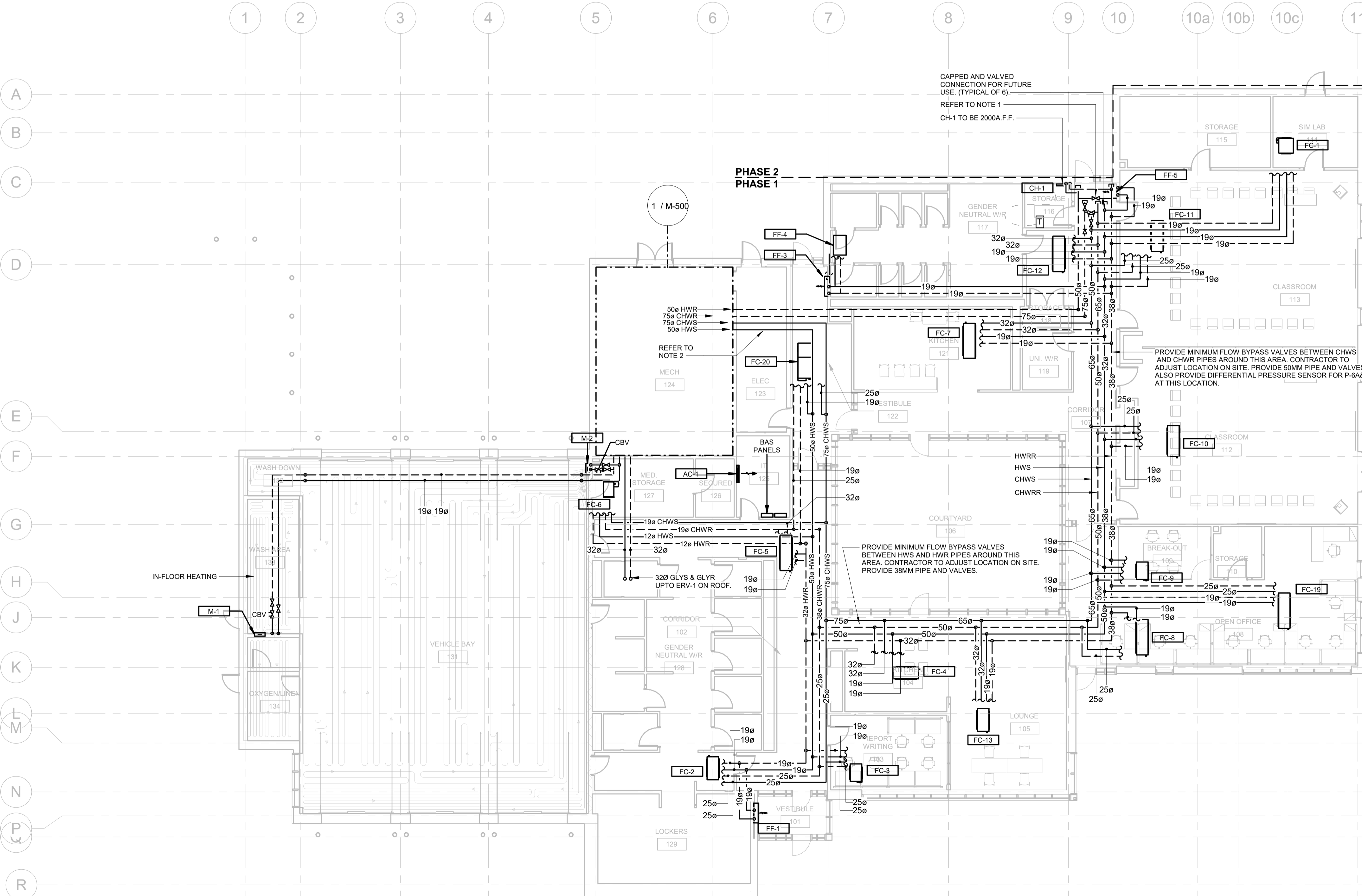
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| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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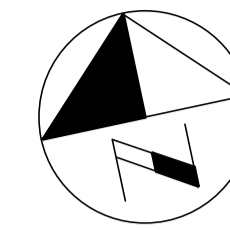
THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
FLOOR PLAN – HYDRONIC HEATING
& COOLING

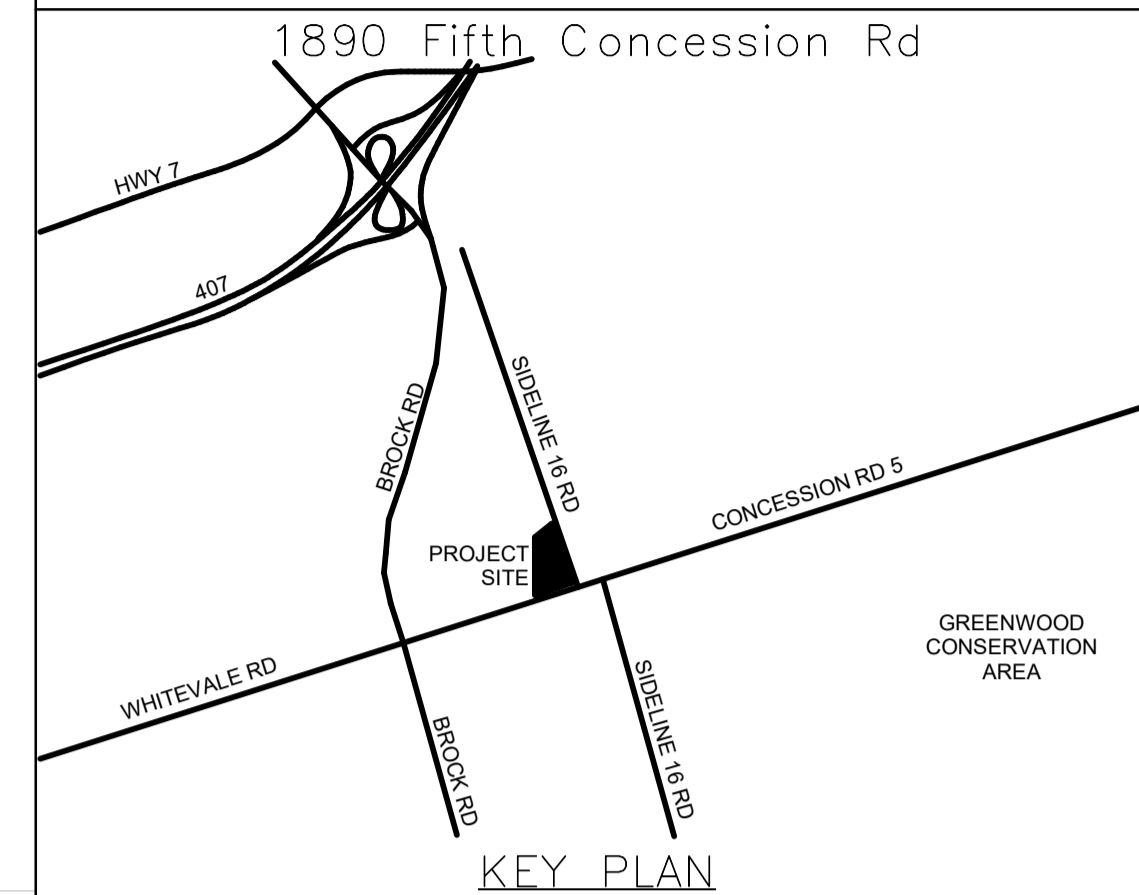
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-301 | SHEET NO. |



1 GROUND FLOOR PLAN - HEAT TRANSFER



ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



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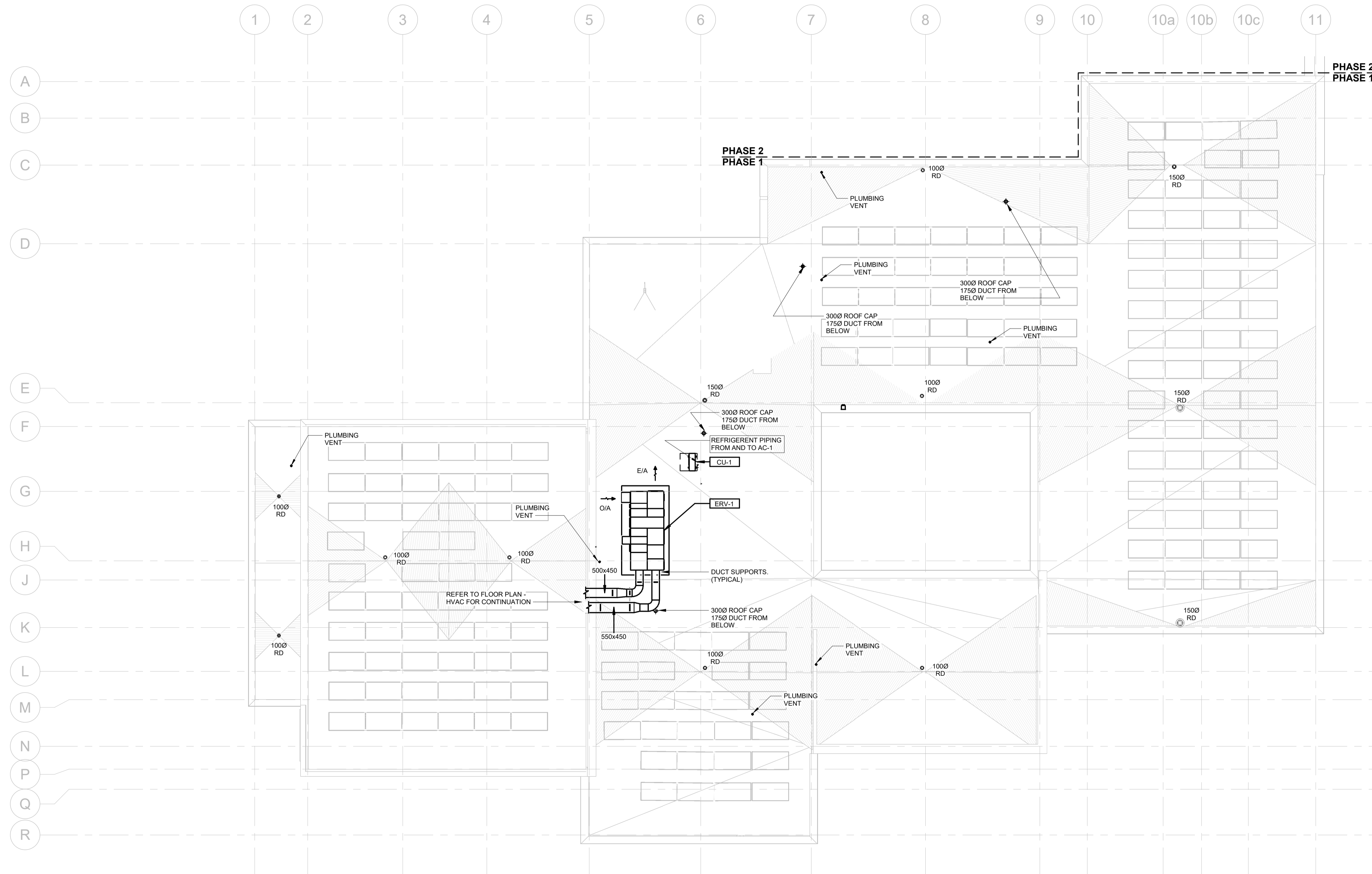
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THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ROOF PLAN – MECHANICAL

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
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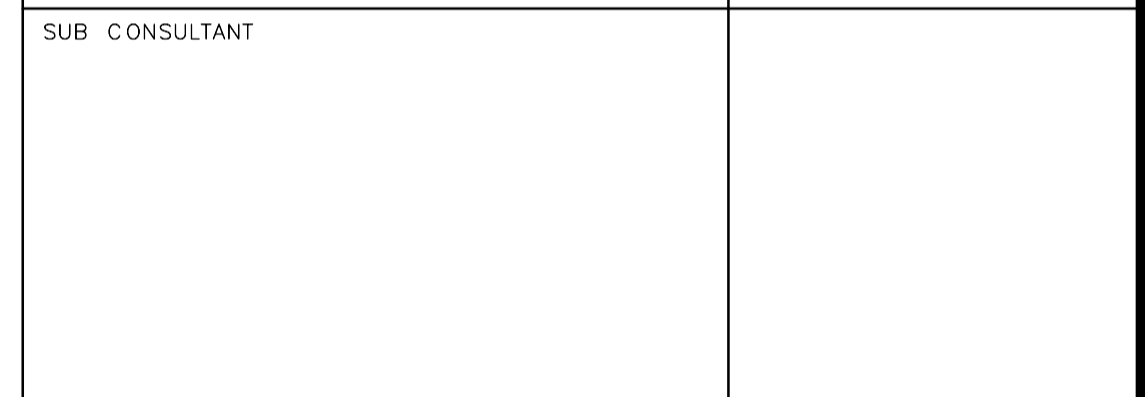
1890 Fifth Concession Rd

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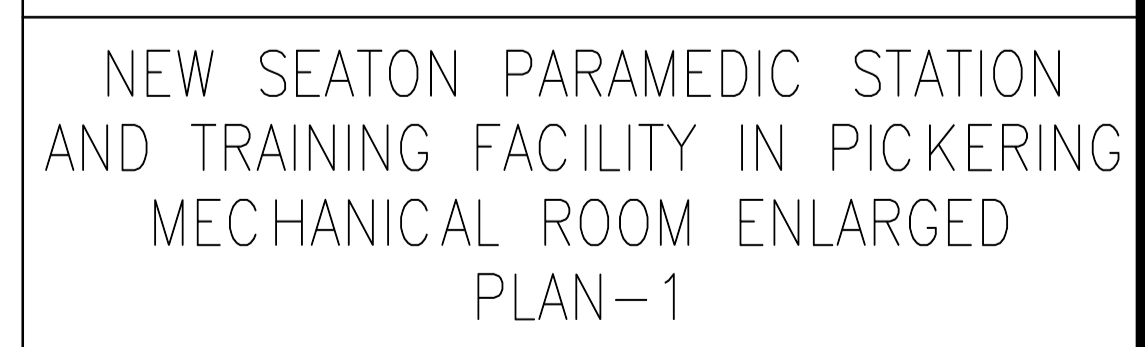
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519 650 5313 tel 519 650 3424 fax
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PROFESSIONAL ENGINEER
MAR 14, 2016
R. G. CARKNER
180162393
660611549
PROVINCE OF ONTARIO



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| CONTRACT REVISIONS | | | | |
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| | 2 | 03/14/22 | | ISSUED FOR CONSTRUCTION |
| | 1 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| | 0 | 09/22/21 | | ISSUED FOR TENDER |
| | NO | DATE | NAME | REVISIONS |






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1890 Fifth Concession Rd

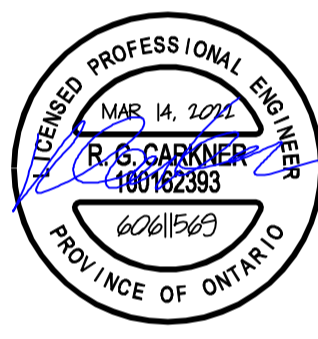
| CONSULTANT REVISIONS | | | |
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PRIME CONSULTANT




AECOM Canada Ltd.
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519 650 5313 tel 519 650 3424 fax
www.aecom.com

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| DESIGN BY: Designer | SCALE: 1 : 25 |
| DRAWN BY: Author | DATE: 12/10/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

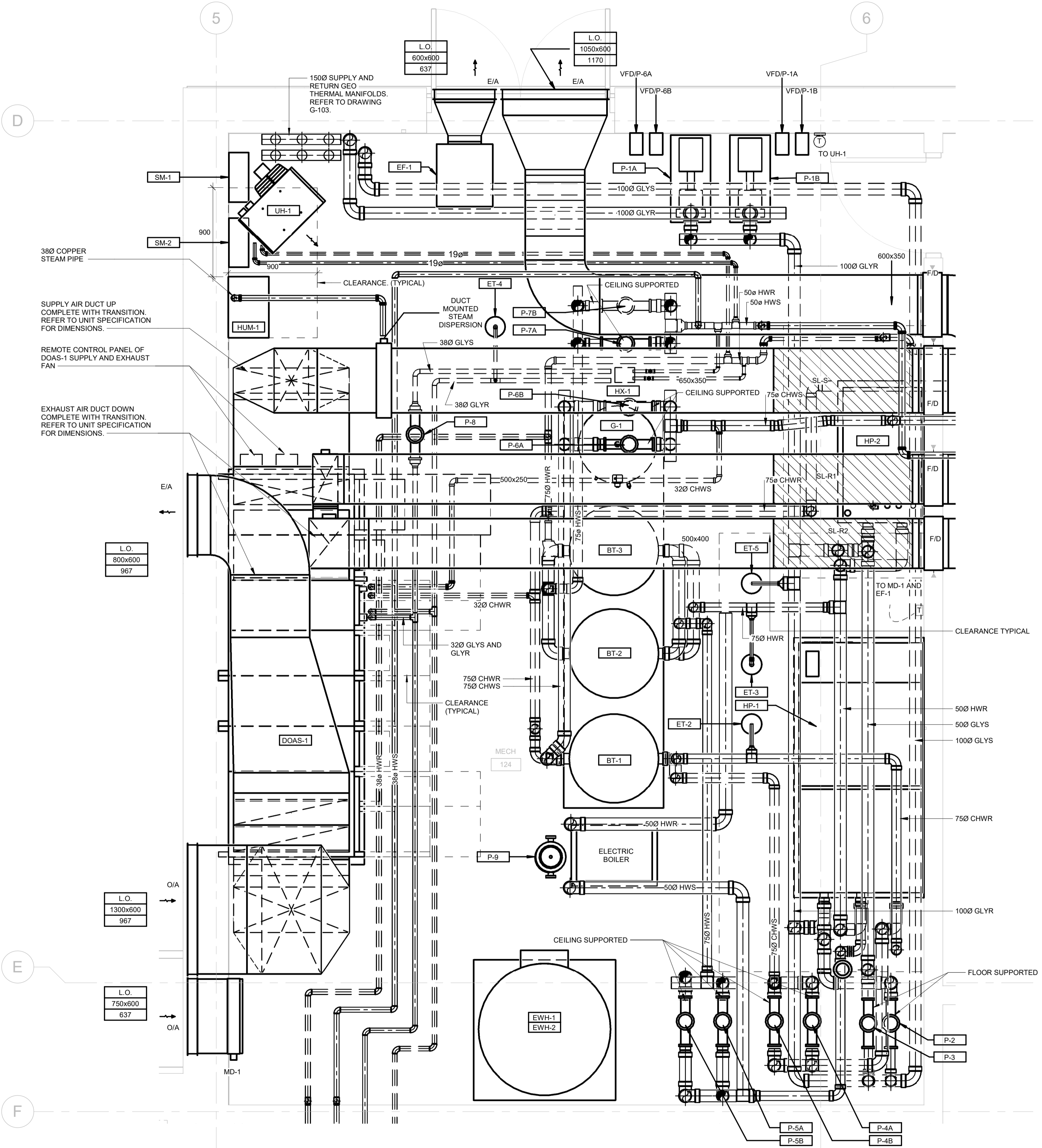
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| NO | DATE | NAME | REVISIONS |
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THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

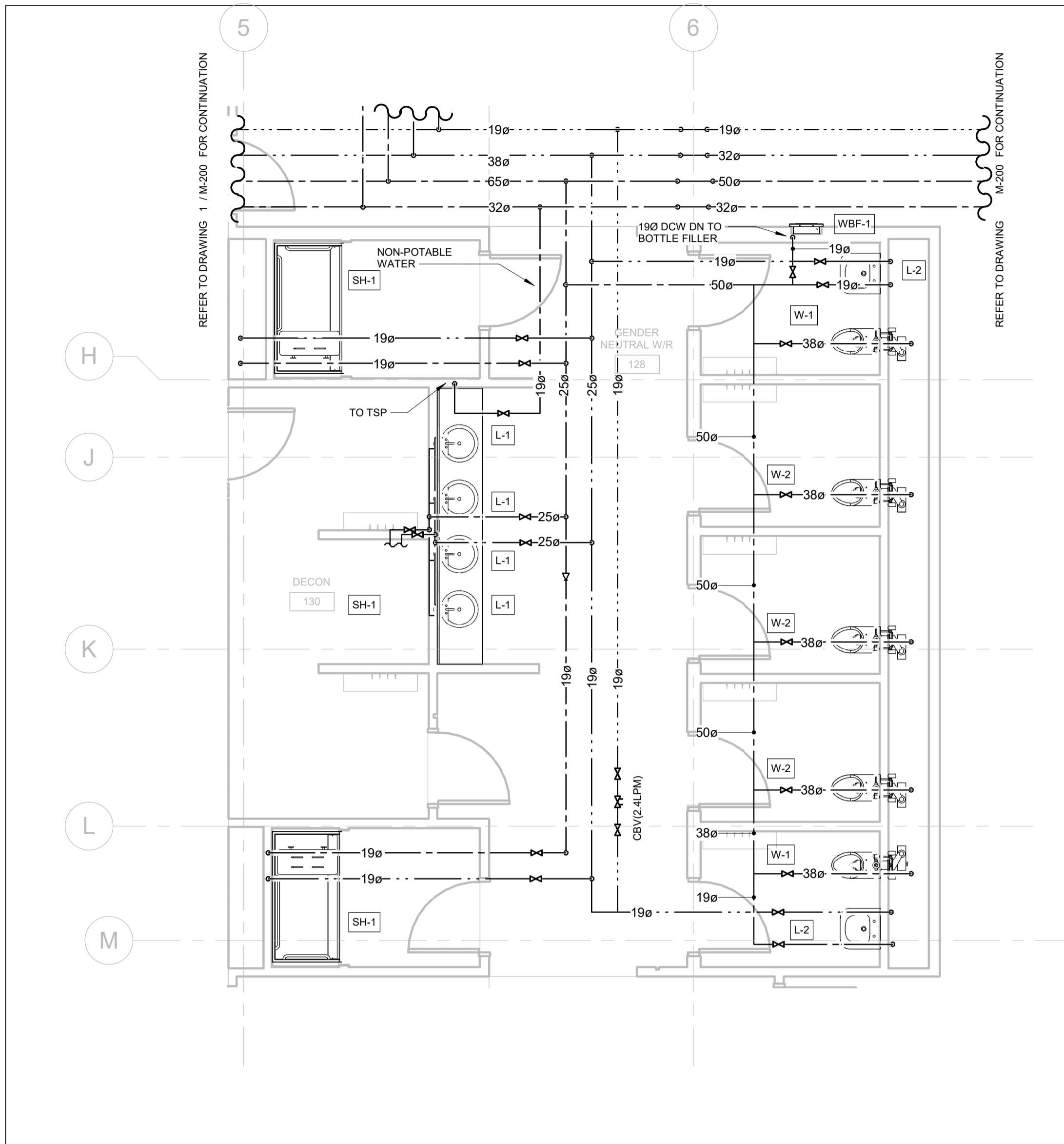
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL ROOM ENLARGED
PLAN-2

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-501 | SHEET NO. |

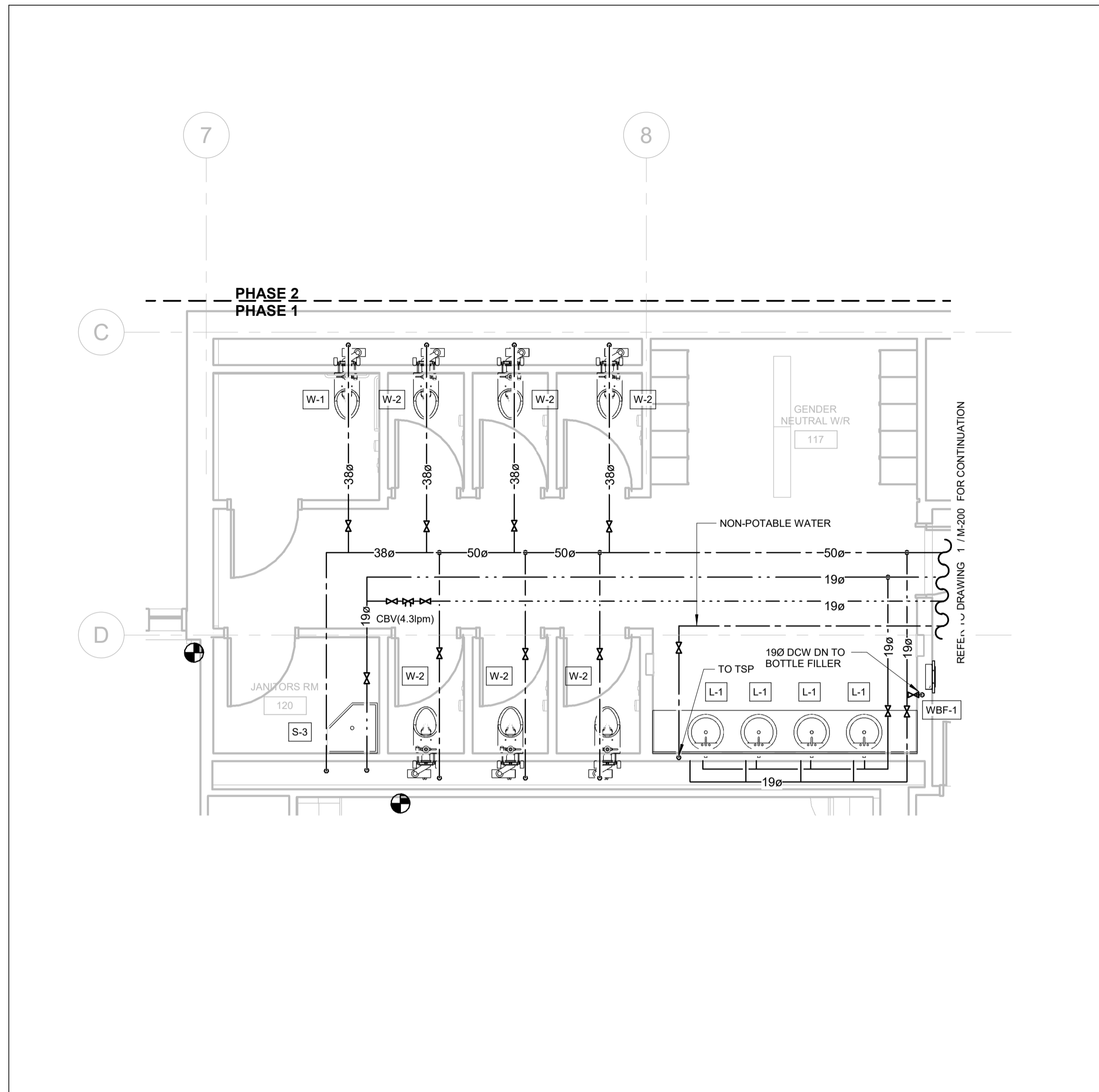


NOTE: INSTALLATION LOCATION OF CHEMICAL TREATMENT PACKAGES CT-1, CT-2, CT-3 AND CT-4 TO BE DETERMINED ON SITE.

B:\300\JP-AMER (CAN) 60611569-Seatons RDPs-M.rvt



1 GENDER NEUTRAL WASHROOM - 128
M-503 M-502 1 : 50



2 GENDER NEUTRAL WASHROOM - 117
M-503 M-502 1 : 50

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

| CONSULTANT REVISIONS | | | |
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SUB CONSULTANT

PROFESSIONAL ENGINEER
R.G. CARKNER
100162393
6061569
PROVINCE OF ONTARIO

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|-----------------------|---------------------------------|
| DESIGN BY: Designer | SCALE: 1 : 50 |
| DRAWN BY: Author | DATE: 12/02/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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DURHAM REGION

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
WASHROOM ENLARGED PLAN

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-502 | SHEET NO. |

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1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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LICENSED PROFESSIONAL ENGINEER
MAR 14, 2014
R.G. CARKNER
100162393
60611569
PROVINCE OF ONTARIO

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| DESIGN BY: Designer | SCALE: 1 : 50 |
| DRAWN BY: Author | DATE: 11/18/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

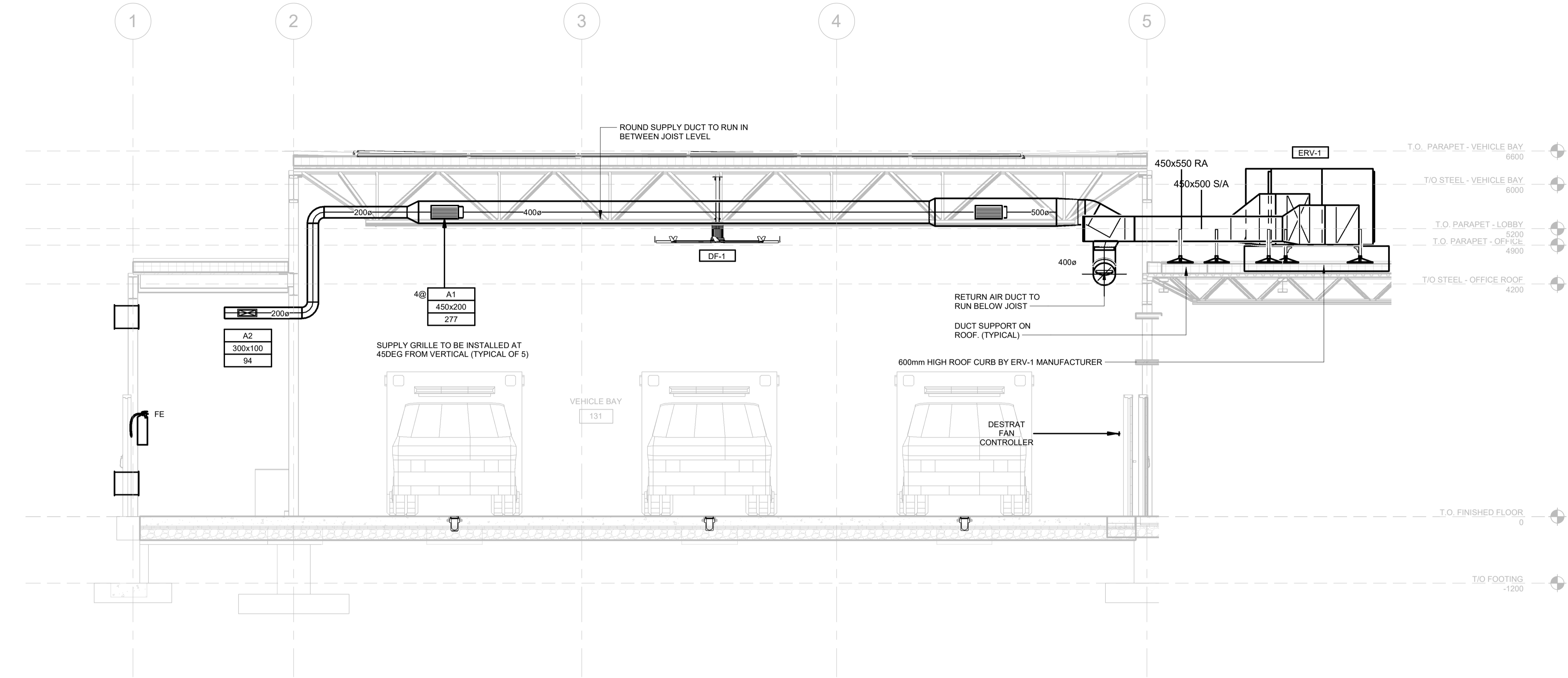
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| CONTRACT REVISIONS | | | |
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| | 2 | 03/14/22 | ISSUED FOR CONSTRUCTION |
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THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

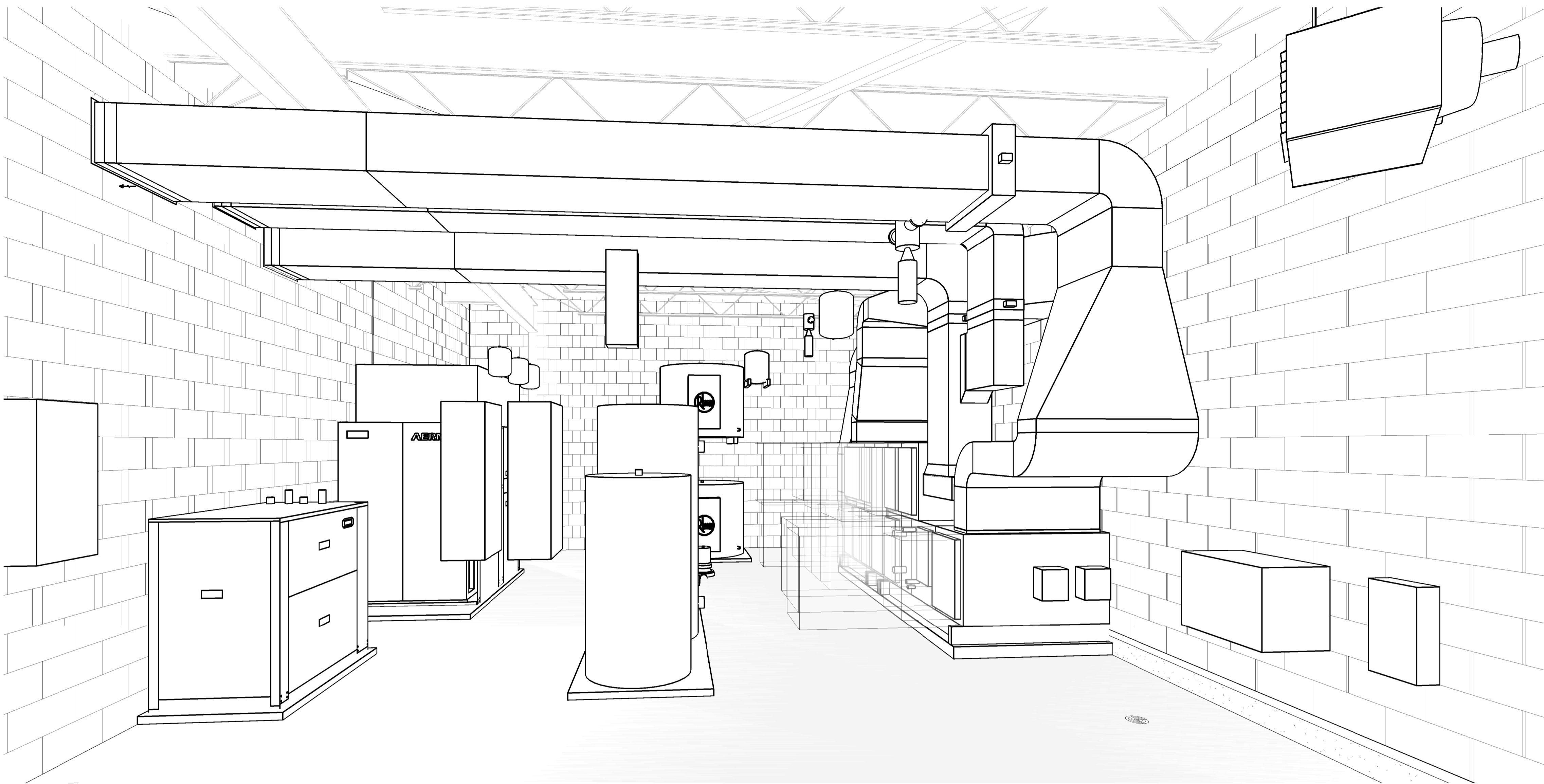
NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
MECHANICAL ENLARGED SECTION

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-503 | SHEET NO. |



1 VEHICLE BAY VENTILATION
1 : 50

BM 300/JP-AMER (CAN) 60611569-Station RDFS-M.rvt



1 MECHANICAL ROOM ISOMETRIC
M-504

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

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100162393
60611569
PROVINCE OF ONTARIO

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| DESIGN BY: Designer | SCALE: |
| DRAWN BY: Author | DATE: 11/27/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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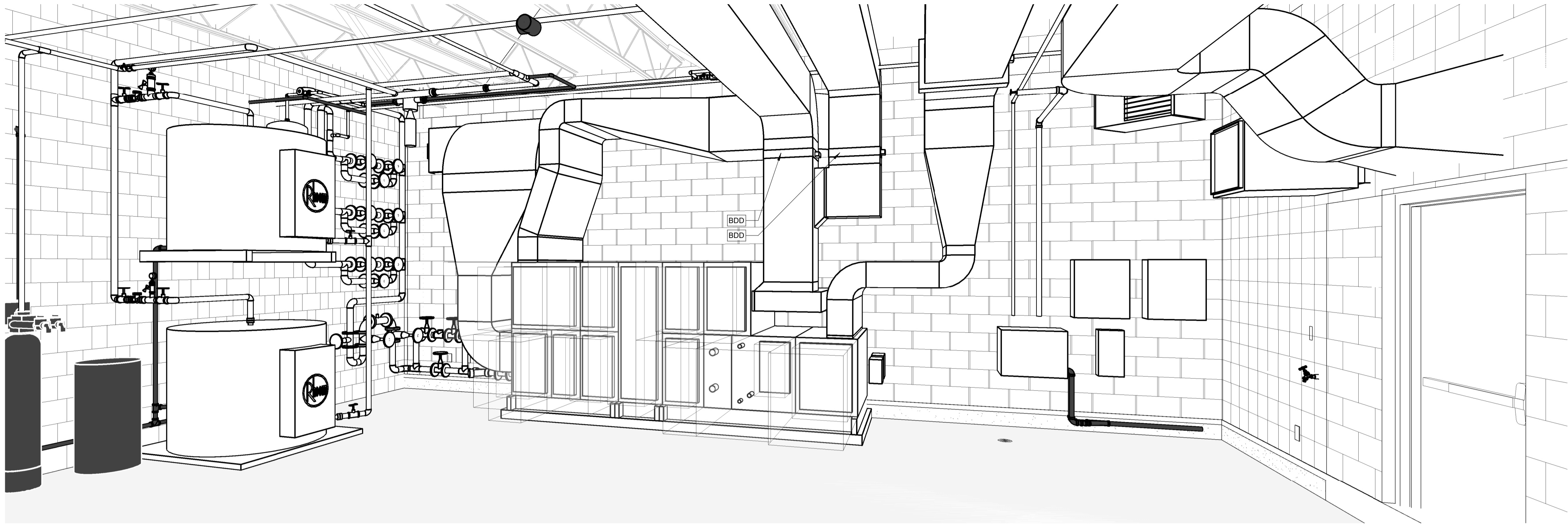


THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL ISOMETRIC VIEWS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-504 | SHEET NO. |

BM 360/JP-AMER (CAN) 60611569-Station RDP5-M.rvt



1 DOAS UNIT DUCTING
M-505

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1890 Fifth Concession Rd

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| DESIGN BY: Designer | SCALE: |
| DRAWN BY: Author | DATE: 12/19/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL ISOMETRIC VIEWS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-505 | SHEET NO. |

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1890 Fifth Concession Rd

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| DESIGN BY: JB | SCALE: As indicated |
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| CHECKED BY: SH | CONSULTANT PROJECT NO. 60611569 |
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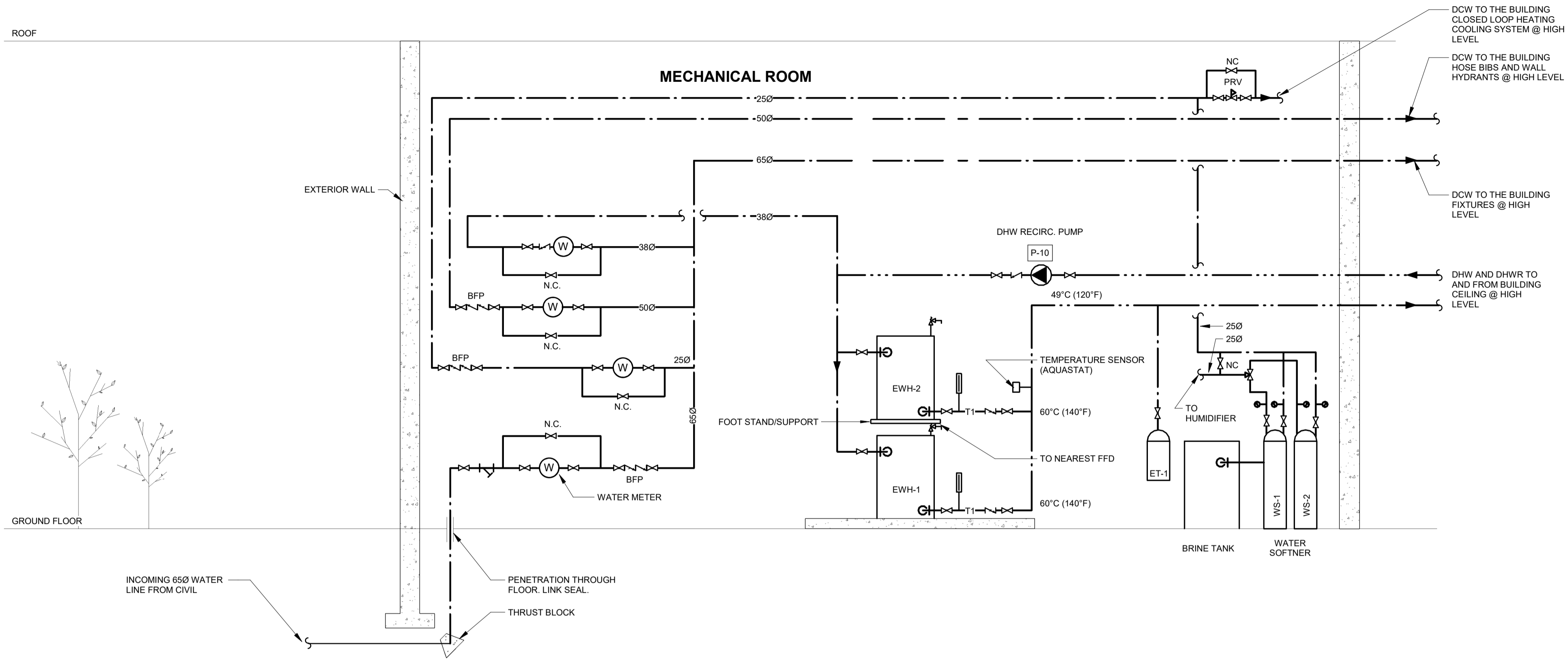
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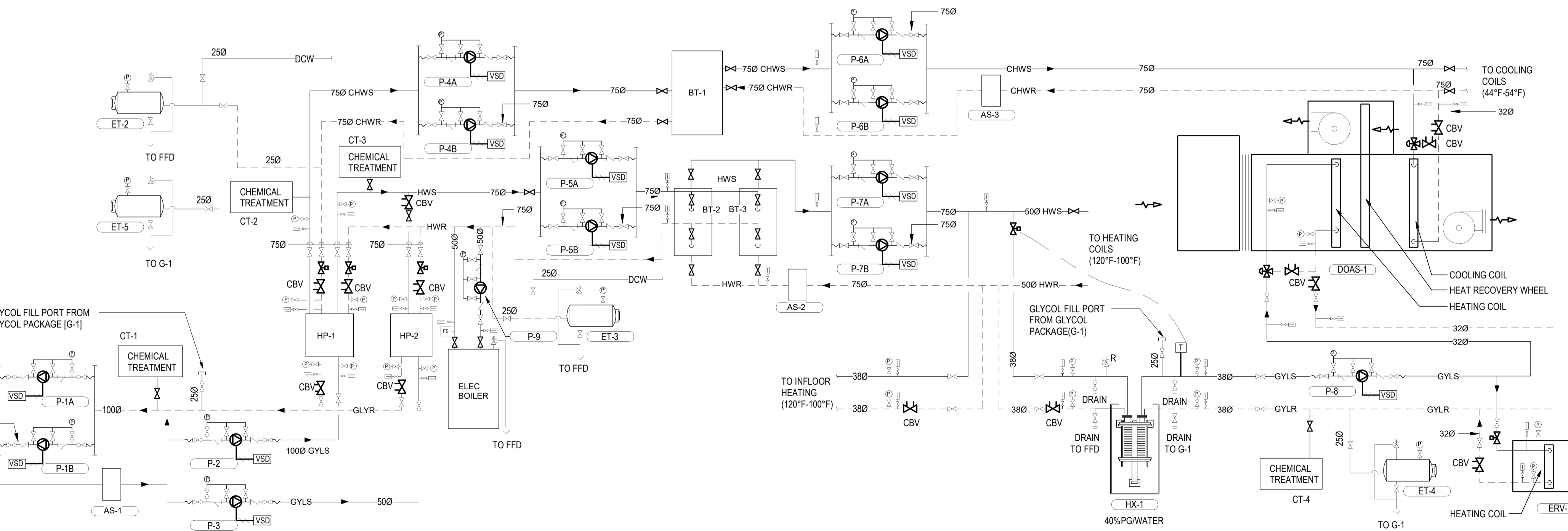
THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
MECHANICAL SCHEMATICS I

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-600 | SHEET NO. |



1 DOMESTIC WATER SCHEMATIC
Scale: NTS




2 HYDRONIC SCHEMATIC
Scale: N.T.S.

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1890 Fifth Concession Rd

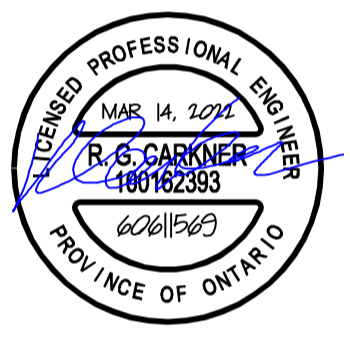
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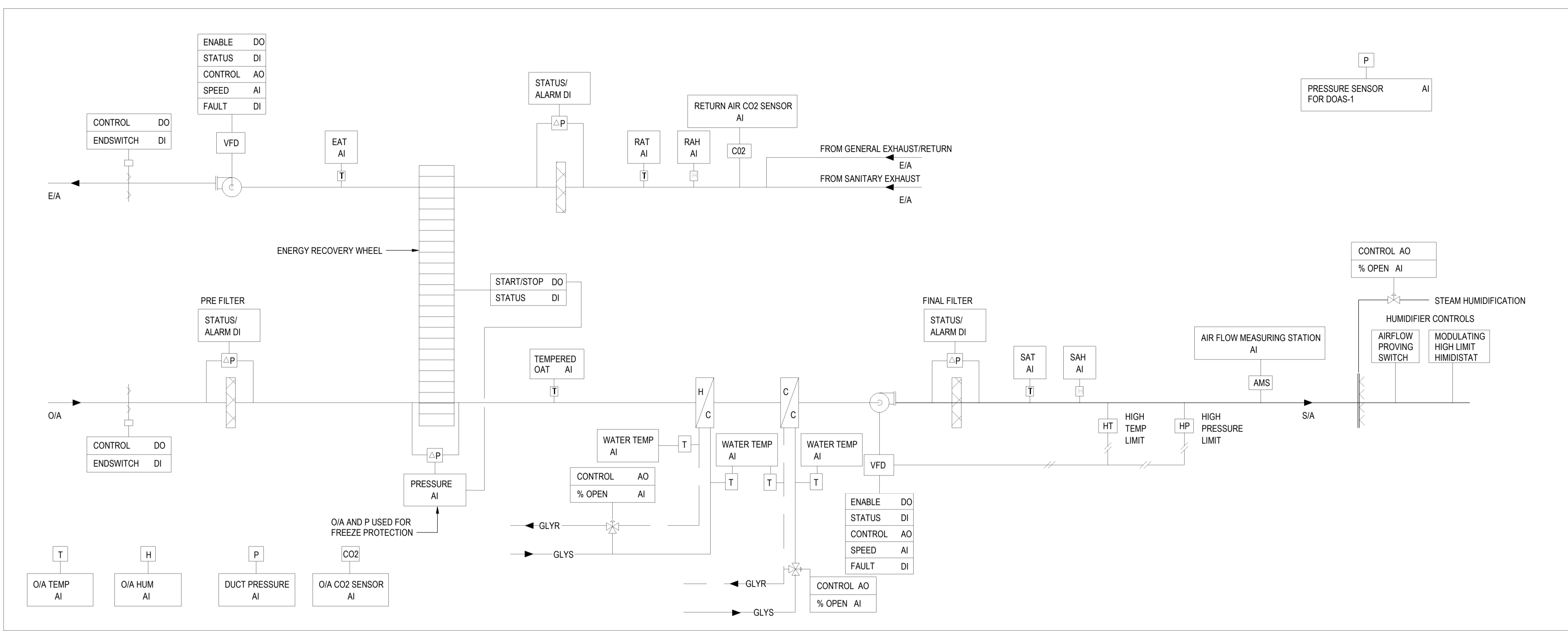
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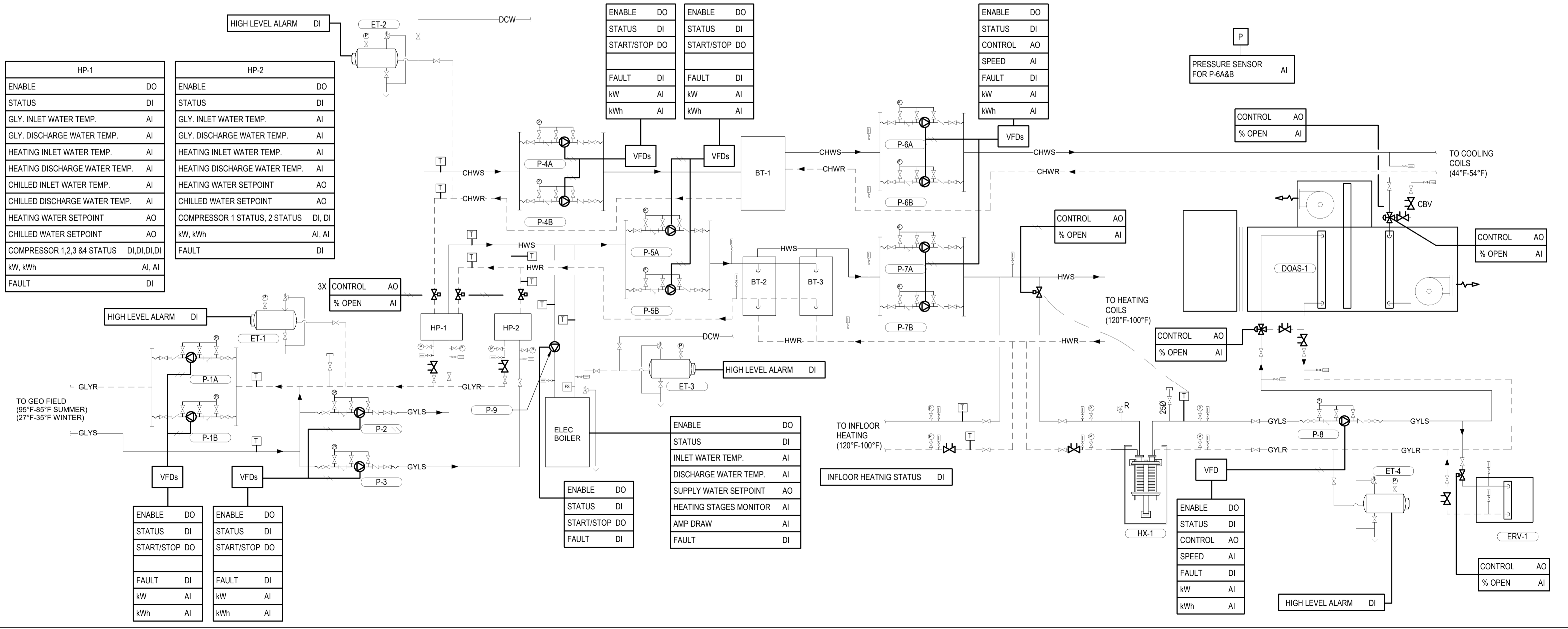
THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
MECHANICAL SCHEMATICS II

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| CONTRACT NO. T-1160-2021 | DRAWING NO. M-601 | SHEET NO. |

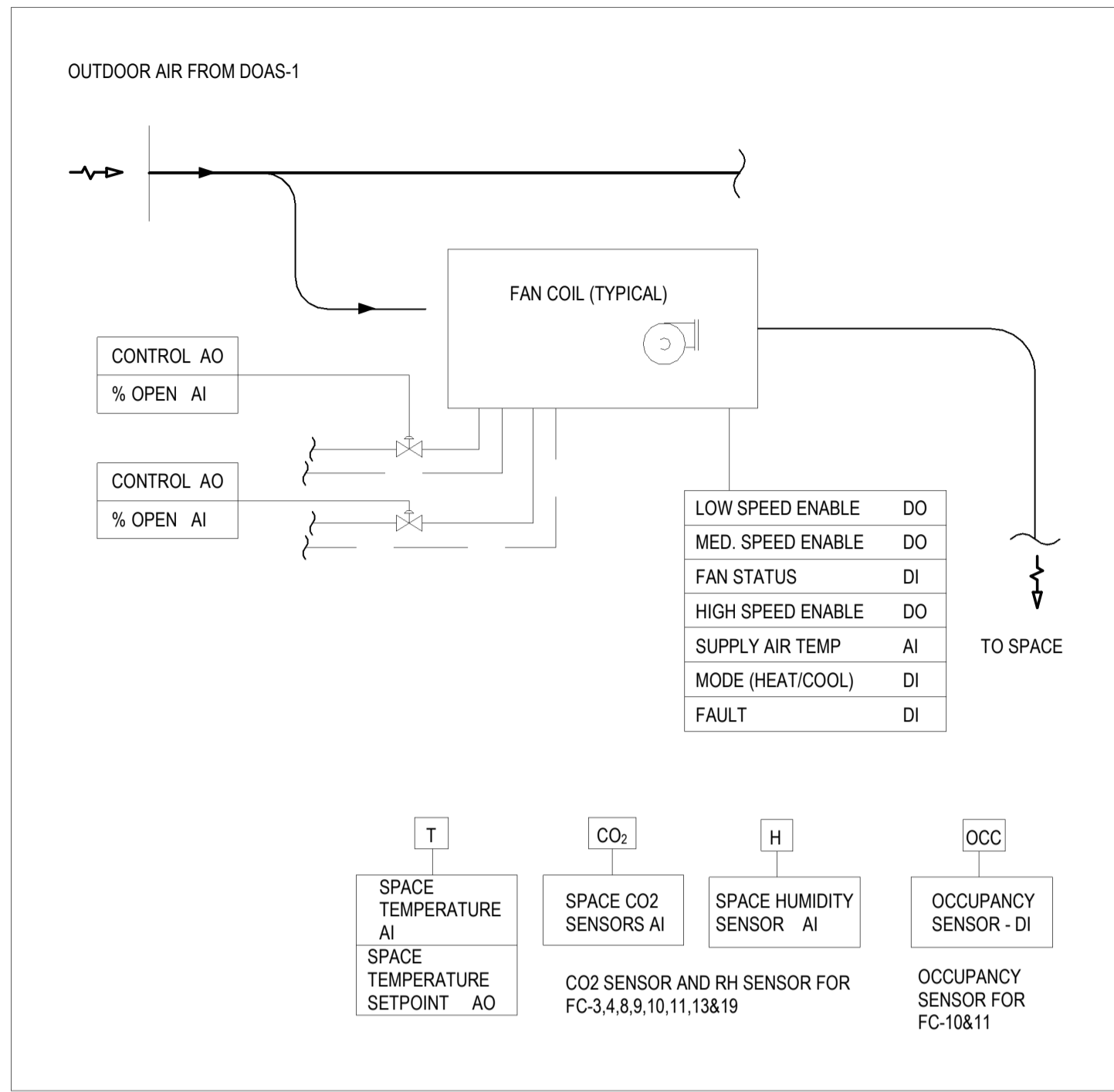


1 DOAS UNIT CONTROLS SCHEMATIC
M-601/ N.TS

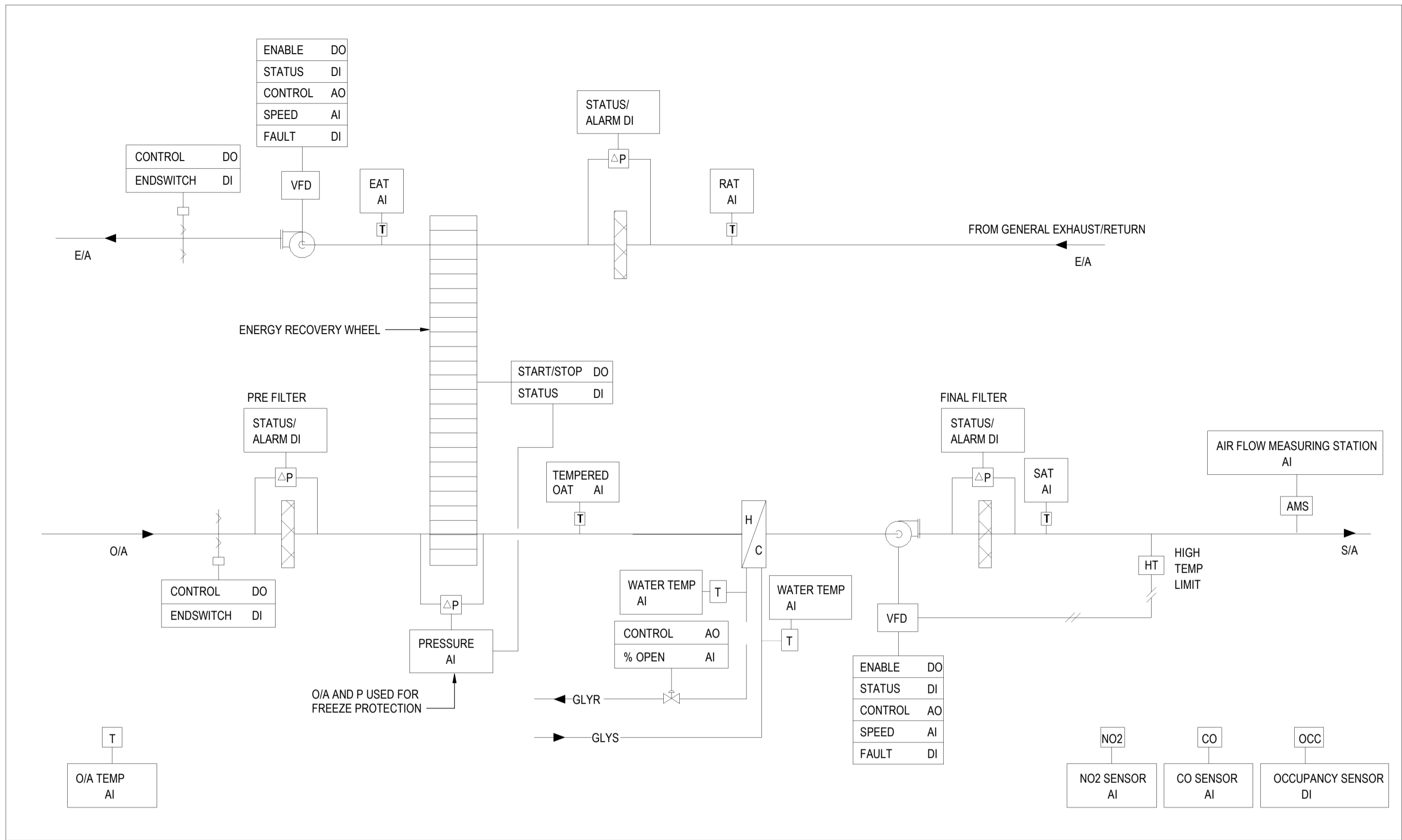


2 HYDRONIC CONTROLS SCHEMATIC
M-601/ N.TS

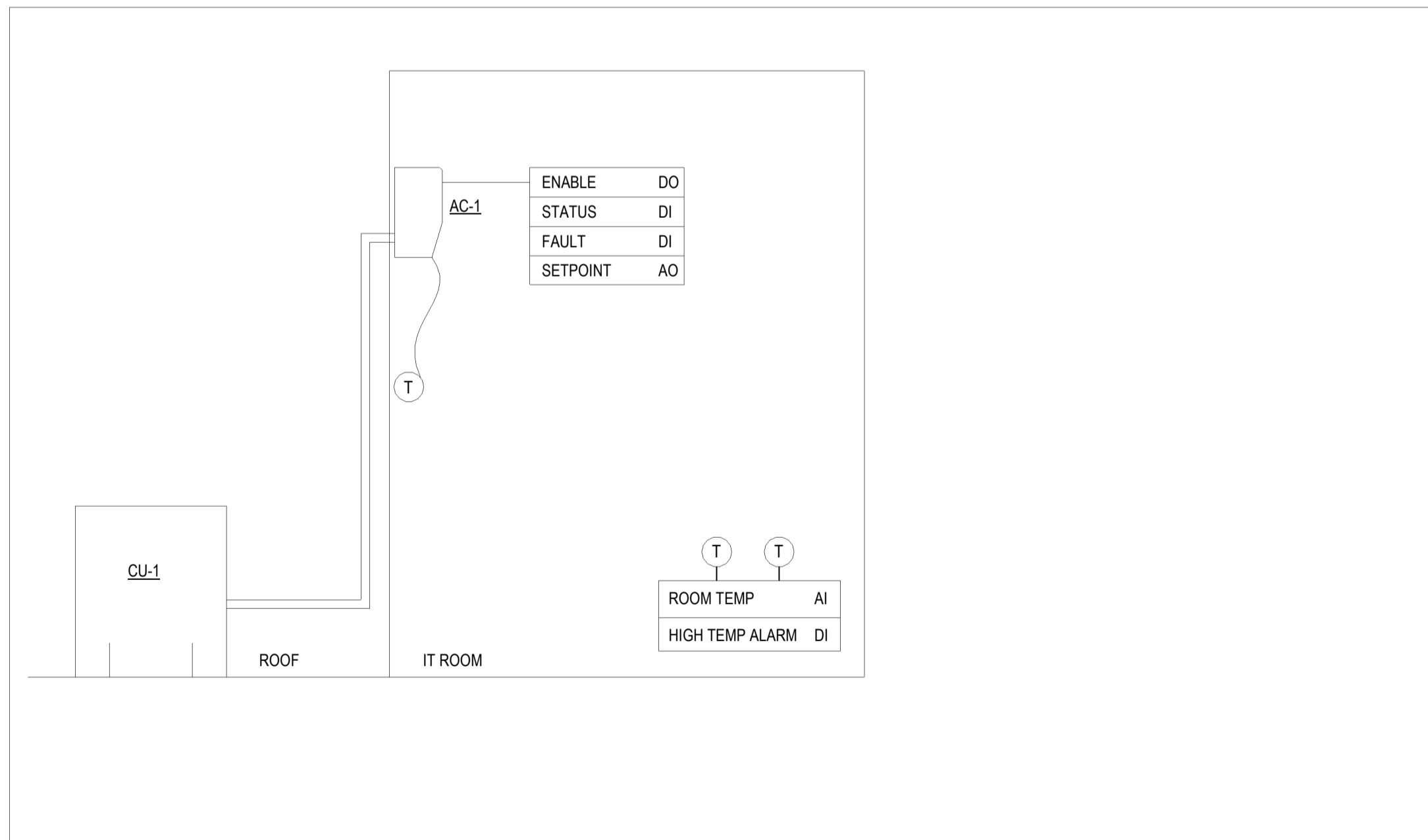
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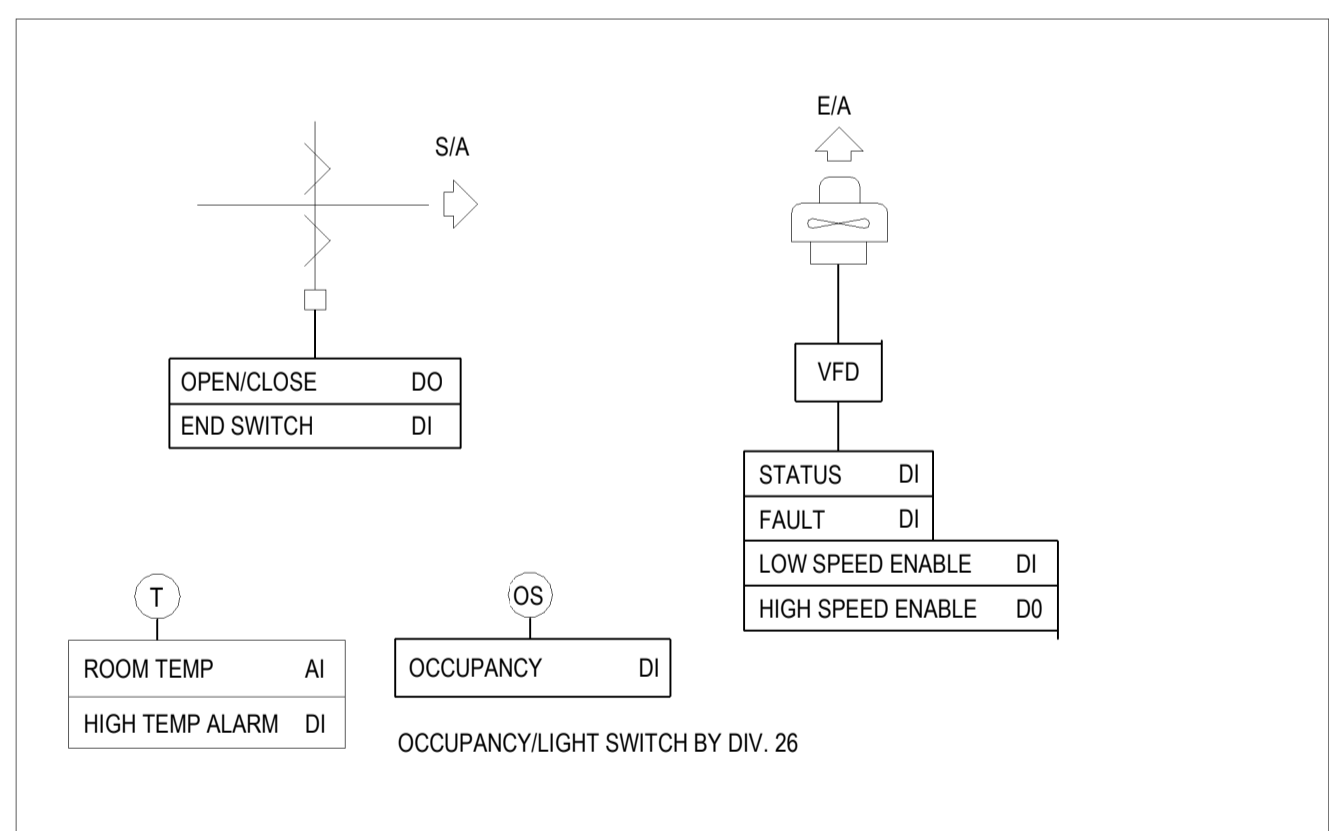
1 FAN COILS CONTROLS SCHEMATIC
M-602/ NTS



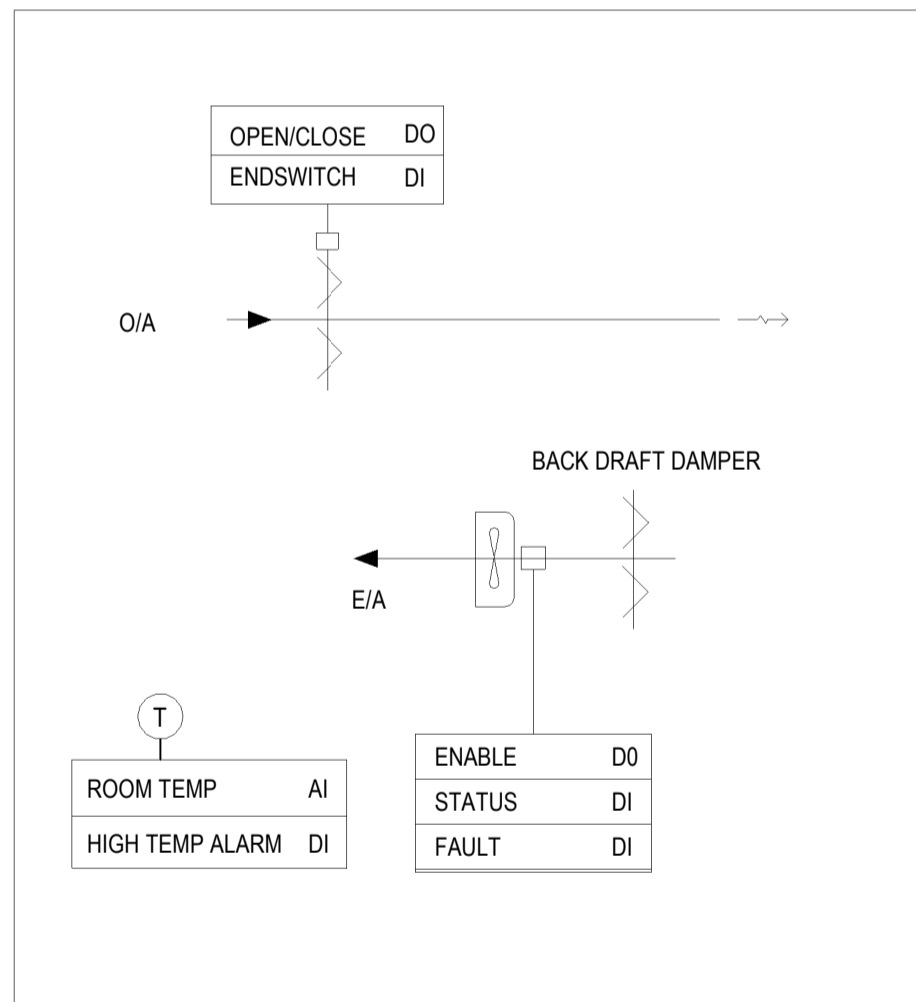
2 ERV CONTROLS SCHEMATIC
M-602/ NTS



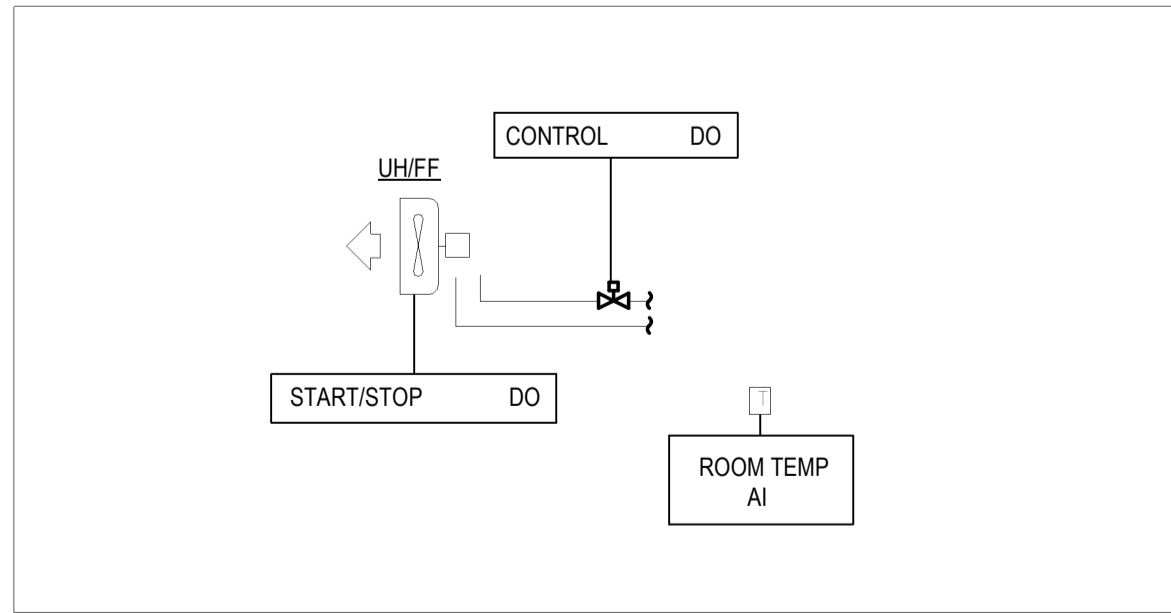
3 IT ROOM CONTROLS SCHEMATIC
M-602/ NTS



4 MECH ROOM VENTILATION CONTROLS SCHEMATIC
M-602/ NTS



5 ELEC ROOM CONTROLS SCHEMATIC
M-602/ NTS



6 HYDRONIC UNIT HEATER CONTROLS SCHEMATIC
M-602/ NTS

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1890 Fifth Concession Rd

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SUB CONSULTANT



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| DRAWN BY: Author | DATE: 03/16/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL SCHEMATICS III

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|-----------------------------|----------------------|--------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-602 | SHEET NO. |

WATER SOFTENER SCHEDULE

| WATER SOFTENER SCHEDULE | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------|--------------|------------|-----------|-----|----------------|-----|----------|-----|-----------------|-----------|--------|-----|------------|---------|---------|---|
| TAG | LOCATION | MANUFACTURER | MODEL | Flow Rate | | | | | | Brine Tank Size | | Weight | | Electrical | | | REMARKS |
| | | | | Minimum | | Max Continuous | | Backwash | | DxH | | | | Input | Output | Output | |
| | | | | LPM | GPM | LPM | GPM | LPM | GPM | (mm x mm) | (in x in) | Kg | LBS | V/Ph/Hz | V/Ph/Hz | Current | |
| WS-1 & 2 | MECHANICAL ROOM [124] | EXCALIBUR | EWS SD 130 | 3.4 | 0.9 | 18.9 | 5 | 10.2 | 2.7 | 450 x 840 | 18 x 33 | 82 | 180 | 120/1/60 | 12 VAC | 500 mA | -Refer to specifications section -C/W Controls. |

BUFFER TANKS

| TAG | LOCATION | MANUFACTURER | SYSTEM | MODEL | VOLUME | # OF PORTS | SHIP WT. Kg LBS | REMARKS |
|------|-----------|--------------|---------|-----------------|---------|------------|--------------------|---------|
| BT-1 | MECH ROOM | AMTROL | CHILLED | HWBT300-4/4-125 | 300 GAL | 4 | 342 753 | |
| BT-2 | MECH ROOM | AMTROL | HEATING | HWBT300-4/4-125 | 300 GAL | 4 | 342 753 | |
| BT-3 | MECH ROOM | AMTROL | HEATING | HWBT300-4/4-125 | 300 GAL | 4 | 342 753 | |

SPLIT AIR CONDITIONING SYSTEM SCHEDULE

INDOOR UNIT

| UNIT No. | LOCATION / AREA SERVED | ARRANGEMENT | MANUFACTURER | MODEL | SEER | RATED COOLING CAPACITY kW (MBH) | REFRIGERANT | OPERATING WEIGHT Kg (Lbs) | POWER SUPPLY V / PH / Hz | MCA | REMARKS |
|----------|------------------------|--------------|--------------|------------|------|---------------------------------|-------------|---------------------------|--------------------------|-----|---|
| AC-1 | IT ROOM [125] | WALL MOUNTED | MITSUBISHI | PKA-A24KA7 | 21.4 | 7 (24) | R410a | 21 (46) | FROM CU-1 | 1 | PROVIDE POWER AND CONTROL INTERLOCKS WITH REMOTE CONDENSER, COMPLETE WITH PROGRAMMABLE WIRED REMOTE CONTROLLER. |

OUTDOOR UNIT

| UNIT No. | LOCATION | ARRANGEMENT | MANUFACTURER | MODEL | SEER | RATED COOLING CAPACITY kW (MBH) | REFRIGERANT | OPERATING WEIGHT Kg (Lbs) | POWER SUPPLY V / PH / Hz | MCA / MOCP | REMARKS |
|----------|----------|----------------------|--------------|-------------|------|---------------------------------|-------------|---------------------------|--------------------------|------------|---|
| CU-1 | EXTERIOR | OUTDOOR ROOF MOUNTED | MITSUBISHI | PUY-A24NHA7 | 21.4 | 7 (24) | R410a | 69 (153) | 208 / 1 / 60 | 19 / 26 | INTERLOCK WITH ASSOCIATED INDOOR UNIT. COMPLETE WITH VARIABLE SPEED INVERTER COMPRESSOR, WEATHERPROOF FACTORY DISCONNECT SWITCH, 600MM (24") HIGH STAND AND FRONT, REAR AND SIDE WIND BAFFLES FOR COOLING OPERATION TO -40°C (-40°F). |

AIR HANDLING UNIT SCHEDULE

| TAG | LOCATION | MANUFACTURER / MODEL | SHIPPING WEIGHT | | SUPPLY FAN | | | | | | | | | | EXHAUST FAN | | | | | | | | | | SENSIBLE | | | | TOTAL | | | | COOLING PERFORMANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|-----------------------|----------------------|-----------------|----------------|-----------------|------|-----------------|------|-----|-----------|-----|-----------|--------------------|------|-------------|------------------|-----------|------|---------------|------|------------|-----|-----------------|-----|-----------|-----|-----------|--------------------|-------|-----------|---------------|-----|---------------------|------|------|------|-----|----------|----------|------------|-----|-------------|-----------------|-------|---------------|-----|------------|-----|-----|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MAX. AIR VOLUME | | MIN. AIR VOLUME | | ESP | | TSP | | FAN TYPE | | BHP | | MOTOR | | FAN SPEED RPM | | ELECTRICAL | | MAX. AIR VOLUME | | | | | | | | | | MIN. AIR VOLUME | | ESP | | TSP | | FAN TYPE | | BHP | | MOTOR SPEED RPM | | FAN SPEED RPM | | ELECTRICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | KG | LBS | LPS | CFM | LPS | CFM | Pa | INS. W.C. | Pa | INS. W.C. | | | SPEED RPM | CONTROL | SPEED RPM | MCA | POWER FEED | LPS | CFM | LPS | CFM | Pa | INS. W.C. | Pa | INS. W.C. | | | SPEED RPM | FAN SPEED RPM | MCA | POWER FEED | KW | MBH | KW | MBH | AIR SIDE | | WATER SIDE | | PRESS. DROP | | FLUID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EAT | FWB | LAT | | EWI | LWT | FLOW | M | FT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOAS-1 | MECHANICAL ROOM [124] | DAIKIN / CAH08GDCM | 1107 | 2440 | 967 | 2050 | 283 | 600 | 253 | 1.1 | 873 | 3.8 | CENTRIFUGAL PLENUM | 1.77 | 3230 | INTEGRATED DRIVE | 2865 | 10.6 | 208/360 | 967 | 2050 | 283 | 600 | 172 | 0.8 | 482 | 2.1 | CENTRIFUGAL PLENUM | 1.00 | 2600 | 2190 | 5.5 | 208/360 | 14.8 | 50.5 | 18.2 | 62 | 26.4 | 79.5 | 13.9 | 57 | 6.7 | 44.0 | 12.3 | 54.1 | 0.8 | 12.2 | 0.5 | 1.8 | WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ERV-1 | ROOF | DAIKIN / GAH08GHSM | 2042 WITH CURB | 4500 WITH CURB | 1203 | 2550 | 602 | 1275 | 115 | 0.5 | 666 | 2.9 | CENTRIFUGAL PLENUM | 1.90 | 1750 | VFD | 2075 | 4.3 | 575/360 | 1321 | 2800 | 661 | 1400 | 161 | 0.7 | 574 | 2.5 | CENTRIFUGAL PLENUM | 1.60 | 1750 | 1990 | 2.9 | 575/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| MOTORIZED DAMPER SCHEDULE | | | | | | | | | | | | |
|---------------------------|--|-----------------|--|------------------|---------|------------------|-----|------------------|-------|------------------|-----|--|
| TAG | MANUFACTURER / MODEL | LOCATION | FUNCTION | DIMENSIONS (WxH) | | MINIMUM AIR FLOW | | MAXIMUM AIR FLOW | | MAXIMUM VELOCITY | | ACCESSORIES |
| | | | | MM | INS | LPS | CFM | LPS | CFM | MPS | FFM | |
| MD-1 | NAILOR 2010 | MECHANICAL ROOM | INTAKE AIR OF EF-1 | 750 x 600 | 30 x 24 | 0 | 0 | 637 | 1,350 | 1.4 | 270 | LOW LEAKAGE ALUMINUM CONTROL DAMPER WITH PARALLEL BLADES, INSULATED FRAME AND BLADES AND STAINLESS STEEL 304 LINKAGE. COMPLETE WITH 24VAC ON/OFF ACTUATOR, END SWITCH AND SPRING RETURN. |
| MD-2 | NAILOR 2010 | ELECTRICAL ROOM | INTAKE AIR OF EF-2 | 1000 x 600 | 40 x 24 | 0 | 0 | 944 | 2,000 | 1.5 | 300 | LOW LEAKAGE ALUMINUM CONTROL DAMPER WITH PARALLEL BLADES, INSULATED FRAME AND BLADES AND STAINLESS STEEL 304 LINKAGE. COMPLETE WITH 24VAC ON/OFF ACTUATOR, END SWITCH AND SPRING RETURN. |
| MD-3 | NAILOR 1020 | ELECTRICAL ROOM | EXHAUST AIR OF WASHROOMS | 400 x 150 | 16 x 6 | 0 | 0 | 175 | 370 | 2.8 | 555 | LOW LEAKAGE GALVANIZED STEEL CONTROL DAMPER WITH OPPOSED BLADES. COMPLETE WITH 24VAC MODULATING ACTUATOR AND SPRING RETURN. |
| MD-4 | NAILOR 1020 | ELECTRICAL ROOM | GENERAL RETURN OF [DOAS-1] | 500 x 250 | 20 x 10 | 0 | 0 | 580 | 1,230 | 4.5 | 885 | LOW LEAKAGE GALVANIZED STEEL CONTROL DAMPER WITH OPPOSED BLADES. COMPLETE WITH 24VAC MODULATING ACTUATOR AND SPRING RETURN. |
| MD-5 | NAILOR 1020 | ELECTRICAL ROOM | EXHAUST AIR OF WASHROOMS | 400 x 150 | 16 x 6 | 212 | 450 | 212 | 450 | 3.4 | 675 | LOW LEAKAGE GALVANIZED STEEL CONTROL DAMPER WITH OPPOSED BLADES. COMPLETE WITH 24VAC MODULATING ACTUATOR AND SPRING RETURN. |
| FS/D | NAILOR 1222-2-12x08-V-BEL-120 1-24-250-ERL-DSDNF-EXT-CL-FL12-DTS | CLASSROOMS | [DOAS-1] SUPPLY AIR TO CLASSROOMS | 300 x 200 | 12 x 8 | 0 | 0 | 156 | 330 | 2.5 | 490 | ULC LISTED ULTRA LOW LEAKAGE GALVANIZED STEEL COMBINATION FIRE/SMOKE DAMPER WITH AIRFOIL BLADES AND FACTORY SLEEVE. LABELLED FOR 1.5 HR. COMPLETE WITH BELIMO 120VAC ACTUATOR, ERL (ELECTRIC RESETTABLE LINK) HEAT RESPONSIVE DEVICE AND SPRING RETURN FAIL CLOSE. COMPLETE WITH 120VAC FACTORY MOUNTED DUCT SMOKE DETECTOR WITH PHOTOELECTRIC SENSOR, FOR NO FLOW CONDITION. WIRING TO FACP BY DIV. 26. |
| FS/D | NAILOR 1221-1-12x12-V-BEL-120 1-24-250-ERL-DSDNF-EXT-CL-FL12-DTS | CLASSROOMS | RETURN AIR FROM CLASSROOMS TO CORRIDOR | 300 x 300 | 12 x 12 | 0 | 0 | 156 | 330 | 1.7 | 330 | ULC LISTED ULTRA LOW LEAKAGE GALVANIZED STEEL COMBINATION FIRE/SMOKE DAMPER WITH AIRFOIL BLADES AND FACTORY SLEEVE. LABELLED FOR 1.5 HR. COMPLETE WITH BELIMO 120VAC ACTUATOR, ERL (ELECTRIC RESETTABLE LINK) HEAT RESPONSIVE DEVICE AND SPRING RETURN FAIL CLOSE. COMPLETE WITH 120VAC FACTORY MOUNTED DUCT SMOKE DETECTOR WITH PHOTOELECTRIC SENSOR, FOR NO FLOW CONDITION. WIRING TO FACP BY DIV. 26. |

| DIFFUSER, REGISTER & GRILLE SCHEDULE | | | | | | | | | | | | |
|--------------------------------------|--|---------------------------|---------------------|------|-------------|-------|----------------------------|-------|------------------|---|--|--|
| TAG | KRUEGER MODEL NO. | APPLICATION | SIZE LENGTH x WIDTH | | NECK SIZE | | AIR FLOW MINIMUM / MAXIMUM | | MAXIMUM IN RANGE | REMARKS | | |
| | | | MM | INS | MM | INS | LPS | CFM | | | | |
| A1 | DMD-18-08-XX-01-44 [XX = VARES] | DRUM LOUVRE | 450 | 18 | 450 | 18 | 203 | 430 | - | DUCT MOUNTED DRUM LOUVRE WITH ADJUSTABLE HEAVY GAUGE ALUMINUM VANES, HEAVY GAUGE ALUMINUM DRUM AND WHITE FINISH. COMPLETE WITH DAMPER EXTRACTOR. | | |
| | | | 200 | 8 | 200 | 8 | 342 | 725 | 30 | | | |
| A2 | DMD-12-04-XX-01-44 [XX = VARES] | DRUM LOUVRE | 300 | 12 | 300 | 12 | 78 | 165 | - | DUCT MOUNTED DRUM LOUVRE WITH ADJUSTABLE HEAVY GAUGE ALUMINUM VANES, HEAVY GAUGE ALUMINUM DRUM AND WHITE FINISH. COMPLETE WITH DAMPER EXTRACTOR. | | |
| | | | 100 | 4 | 100 | 4 | 130 | 275 | 30 | | | |
| A3 | 1900-36-2-50-C-E-00-44 & 1900BOOT-36-2-50-8-C-E-00-G-01 | LINEAR SLOT DIFFUSER | 900 | 36 | 200 | 8 | 28 | 60 | - | ALUMINUM LINEAR SLOT SUPPLY DIFFUSER WITH 2 SLOTS AND 25MM SLOT WIDTH. CONCEALED SURFACE MOUNT, BOTH END CAPS AND A WHITE FINISH. COMPLETE WITH GALVANIZED STEEL PLENUM BOOT AND PERFORMANCE BAFLE. | | |
| | | | 100 | 4 | 250 | 10 | 66 | 140 | 26 | | | |
| A4 | 1900-48-2-50-C-E-00-44 & 1900BOOT-48-2-50-10-C-E-00-G-01 | LINEAR SLOT DIFFUSER | 1200 | 48 | 250 | 10 | 38 | 80 | - | ALUMINUM LINEAR SLOT SUPPLY DIFFUSER WITH 2 SLOTS AND 25MM SLOT WIDTH. CONCEALED SURFACE MOUNT, BOTH END CAPS AND A WHITE FINISH. COMPLETE WITH GALVANIZED STEEL PLENUM BOOT AND PERFORMANCE BAFLE. | | |
| | | | 100 | 4 | 250 | 10 | 99 | 210 | 29 | | | |
| B1 | EGS-24x06-F23-NONE-00-00-00-44 | RETURN AIR GRILLE | 600 | 24 | GRILLE SIZE | | 24 | 50 | - | ALUMINUM CORE EGG-CRATE RETURN GRILLE WITH 12MMx12MMx12MM (1/2"x1/2"x1/2") CORE STYLE, LAY-IN T-BAR ALUMINUM FRAME, NO SCREW HOLES AND WHITE FINISH. | | |
| | | | 150 | 6 | | | 293 | 620 | 23 | | | |
| B2 | EGS-24x10-F23-NONE-00-00-00-44 | RETURN AIR GRILLE | 600 | 24 | GRILLE SIZE | | 189 | 400 | - | ALUMINUM CORE EGG-CRATE RETURN GRILLE WITH 12MMx12MMx12MM (1/2"x1/2"x1/2") CORE STYLE, LAY-IN T-BAR ALUMINUM FRAME, NO SCREW HOLES AND WHITE FINISH. | | |
| | | | 250 | 10 | | | 547 | 1,160 | 25 | | | |
| B3 | EGS-24x24-F23-NONE-00-00-00-44 | RETURN AIR GRILLE | 600 | 24 | GRILLE SIZE | | 425 | 900 | - | ALUMINUM CORE EGG-CRATE RETURN GRILLE WITH 12MMx12MMx12MM (1/2"x1/2"x1/2") CORE STYLE, LAY-IN T-BAR ALUMINUM FRAME, NO SCREW HOLES AND WHITE FINISH. | | |
| | | | 600 | 24 | | | 1,227 | 2,600 | 24 | | | |
| D1 | 5800A-08x08-00-10 | DOOR GRILLE | 200 | 8 | GRILLE SIZE | | - | - | - | ALUMINUM DOOR GRILLE WITH 12MM (1/2") BLADE SPACING, CW ALUMINUM AUXILIARY FRAME, NO SCREW HOLES AND ALUMINUM FINISH. | | |
| | | | 200 | 8 | | | 53 | 113 | 27 | | | |
| E1 | EGCS-06x06-F22-NONE-00-00-00-44 | EXHAUST AIR GRILLE | 150 | 6 | GRILLE SIZE | | 14 | 30 | - | ALUMINUM CORE EGG-CRATE EXHAUST GRILLE WITH 32MM (1 1/4") FLANGE, 12MMx12MMx12MM (1/2"x1/2"x1/2") CORE STYLE. SURFACE MOUNT, NO SCREW HOLES AND WHITE FINISH. SITE VERIFY THE FLANGE REQUIREMENT BEFORE ORDERING. | | |
| | | | 150 | 6 | | | 80 | 170 | 21 | | | |
| E2 | EGCS-12x12-F22-NONE-00-00-00-44 | RETURN AIR GRILLE | 300 | 12 | GRILLE SIZE | | 142 | 300 | - | ALUMINUM CORE EGG-CRATE EXHAUST GRILLE WITH 32MM (1 1/4") FLANGE, 12MMx12MMx12MM (1/2"x1/2"x1/2") CORE STYLE. SURFACE MOUNT, NO SCREW HOLES AND WHITE FINISH. SITE VERIFY THE FLANGE REQUIREMENT BEFORE ORDERING. | | |
| | | | 300 | 12 | | | 354 | 750 | 23 | | | |
| E3 | 9S80-H-304-F23-NONE-01-00-00-44 | EXHAUST AIR GRILLE | 250 W | 10 W | GRILLE SIZE | | 156 | 330 | - | SINGLE DEFLECTION STAINLESS STEEL 304 EXHAUST GRILLE WITH 19MM (3/4") BLADE SPACING, 45 DEG HORIZONTAL BLADES, SURFACE MOUNT, COUNTERSUNK STAINLESS STEEL SCREWS AND WHITE FINISH. | | |
| | | | 450 H | 18 H | | | 472 | 1,000 | 27 | | | |
| E4 | EGCS-24x8-F23-24x24-00-00-00-44 | RETURN AIR GRILLE | 600 | 24 | GRILLE SIZE | | 142 | 300 | - | ALUMINUM CORE EGG-CRATE EXHAUST GRILLE WITH 32MM (1 1/4") FLANGE, 12MMx12MMx12MM (1/2"x1/2"x1/2") CORE STYLE. LAY-IN T-BAR FRAME, 600MM x 600MM PANEL, NO SCREW HOLES AND WHITE FINISH. SITE VERIFY THE FLANGE REQUIREMENT BEFORE ORDERING. | | |
| | | | 200 | 8 | | | 448 | 950 | 24 | | | |
| M1 | 51450-04-10-F23-24x24-00-44 | 4 WAY SUPPLY AIR DIFFUSER | 600 | 24 | 250 | 10 | 52 | 110 | - | ALUMINUM SQUARE FACE DROP CONE DIFFUSER WITH 3 CONES AND INTEGRAL EARTHQUAKE TABS. LAY-IN T-BAR FRAME, 600MM x 600 MM PANEL, NECK MOUNTED ROUND DAMPER ADJUSTABLE FROM FACE OF THE DIFFUSER, 250MM (10") ROUND INLET AND WHITE FINISH. | | |
| | | | 600 | 24 | 200 | 8 | 203 | 430 | 26 | | | |
| M2 | 51450-04-08-F23-24x24-00-44 | 4 WAY SUPPLY AIR DIFFUSER | 600 | 24 | 200 | 8 | 33 | 70 | - | ALUMINUM SQUARE FACE DROP CONE DIFFUSER WITH 3 CONES AND INTEGRAL EARTHQUAKE TABS. LAY-IN T-BAR FRAME, 600MM x 600 MM PANEL, NECK MOUNTED ROUND DAMPER ADJUSTABLE FROM FACE OF THE DIFFUSER, 200MM (8") ROUND INLET AND WHITE FINISH. | | |
| | | | 600 | 24 | 150 | 6 | 14 | 30 | - | | | |
| M3 | 51450-04-06-F23-24x24-00-44 | 4 WAY SUPPLY AIR DIFFUSER | 600 | 24 | 150 | 6 | 14 | 30 | - | ALUMINUM SQUARE FACE DROP CONE DIFFUSER WITH 3 CONES AND INTEGRAL EARTHQUAKE TABS. LAY-IN T-BAR FRAME, 600MM x 600 MM PANEL, NECK MOUNTED ROUND DAMPER ADJUSTABLE FROM FACE OF THE DIFFUSER, 150MM (6") ROUND INLET AND WHITE FINISH. | | |
| | | | 600 | 24 | ROUND | ROUND | 92 | 195 | 26 | | | |
| N1 | S80-HZ-16x12-F22-NONE-01-00-00-44 | RETURN AIR GRILLE | 400 W | 16 W | GRILLE SIZE | | 283 | 600 | 13 | STEEL SINGLE DEFLECTION RETURN GRILLE WITH 19MM (3/4") BLADE SPACING, 0 DEG HORIZONTAL BLADES, SURFACE MOUNT, COUNTERSUNK SCREWS AND WHITE FINISH. | | |
| | | | 300 H | 12 H | | | 434 | 920 | 23 | | | |
| N2 | 880-V-20x12-F22-NONE-01-00-00-44 | SUPPLY AIR GRILLE | 500 W | 20 W | GRILLE SIZE | | 236 | 500 | - | STEEL DOUBLE DEFLECTION SUPPLY GRILLE WITH 19MM (3/4") BLADE SPACING, SURFACE MOUNT, COUNTERSUNK SCREWS AND WHITE FINISH. | | |
| | | | 300 H | 12 H | | | 510 | 1,080 | 27 | | | |



| ELECTRIC SNOW MELT SYSTEM SCHEDULE | | | | | | | | | | | |
|------------------------------------|-----------------------|--|----------------------------|-------------------|-------------------|-----------|--------|------------|--------------|-------|---|
| CONTROL PANEL TAG | LOCATION | AREA SERVED | RAYCHEM PRODUCT NO. | EMBEDDED MATERIAL | CIRCUIT QUANTITY | HEAT LOAD | | ELECTRICAL | | POWER | REMARKS |
| | | | | | | KW | MBH | FEED | DISTRIBUTION | | |
| SM-1 | MECHANICAL ROOM [124] | [131] VEHICLE BAY APRONS | SMPG3-208-3-2/3P(40)-1-100 | ASPHALT | 6 (3 + 3) | 33.0 | 112629 | 208/3/60 | 208/3/60 | 33.0 | THREE PHASE POWER DISTRIBUTION PANEL FOR THREE PHASE HEATING CABLES, COMPLETE WITH MAIN CIRCUIT BREAKER, INTERNAL TRANSFORMER, HDPE JACKETED COPPER SHEATHED HEATING CABLES, AERIAL SNOW SENSOR AND FOUR (4) PAVEMENT MOUNTED TEMPERATURE SENSORS. |
| SM-2 | MECHANICAL ROOM [124] | PEDESTRIAN ENTRANCES [101], [122], [123], [124], [134] & [107] | SMPG1-208-3-4/2P(50)-1-200 | CONCRETE | 5 (2 + 1 + 1 + 1) | 27.4 | 93516 | 208/3/60 | 208/1/60 | 27.4 | THREE PHASE POWER DISTRIBUTION PANEL FOR SINGLE PHASE HEATING CABLES, COMPLETE WITH MAIN CIRCUIT BREAKER, INTERNAL TRANSFORMER, HDPE JACKETED COPPER SHEATHED HEATING CABLES, AERIAL SNOW SENSOR AND FOUR (4) PAVEMENT MOUNTED TEMPERATURE SENSORS. |

| PLUMBING FIXTURE CONNECTION SCHEDULE | | | | | | | | | | | | |
|--------------------------------------|---|----------------|--------|---------------|------|-------|------------|------|------|----------|------|---|
| TAG | FIXTURE NAME | SANITARY WASTE | | SANITARY VENT | | DCWS | | DHWS | | TEMPERED | | REMARKS |
| | | MM | INS | MM | INS | MM | INS | MM | INS | MM | INS | |
| W-1 | BARRIER FREE WALL HUNG FLUSH VALVE WATER CLOSET | 75 | 3 | 38 | 1.5 | 25 | 1 | - | - | - | - | |
| W-2 | GENERAL USE WALL HUNG FLUSH VALVE WATER CLOSET | 75 | 3 | 38 | 1.5 | 25 | 1 | - | - | - | - | |
| U-1 | BARRIER FREE WALL HUNG FLUSH VALVE URINAL | 50 | 2 | 38 | 1.5 | 19 | 0.75 | - | - | - | - | |
| L-1 | BARRIER FREE COUNTERTOP LAVATORY | 32 | 1.25 | 32 | 1.25 | 13 | 0.5 | 13 | 0.5 | 13 | 0.5 | TEMPERED WATER FROM THERMOSTATIC MIXING VALVE |
| L-2 | BARRIER FREE WALL HUNG LAVATORY | 32 | 1.25 | 32 | 1.25 | 13 | 0.5 | 13 | 0.5 | 13 | 0.5 | TEMPERED WATER FROM THERMOSTATIC MIXING VALVE |
| S-1 | SINGLE COMPARTMENT STAINLESS STEEL SINK | 38 | 1.5 | 38 | 1.5 | 13 | 0.5 | 13 | 0.5 | - | - | |
| S-2 | DOUBLE COMPARTMENT STAINLESS STEEL SINK | 2@ 38 | 2@ 1.5 | 38 | 1.5 | 13 | 0.5 | 13 | 0.5 | - | - | |
| S-3 | JANITOR'S SERVICE SINK | 75 | 3 | 38 | 1.5 | 13 | 0.5 | 13 | 0.5 | - | - | |
| WBF-1 | BARRIER FREE DRINKING FOUNTAIN | 32 | 1.25 | 32 | 1.25 | 13 | 0.5 | | | | | |
| E-1 | EMERGENCY EYE/FACE WASH | 38 | 1.5 | 38 | 1.5 | 19 | 0.75 | 19 | 0.75 | 19 | 0.75 | TEMPERED WATER FROM THERMOSTATIC MIXING VALVE |
| FD | FLOOR DRAIN | 75 | 3 | 38 | 1.5 | 9 | 0.38 | - | - | - | - | NON-POTABLE SUPPLY FROM TSP |
| FFD | FUNNEL FLOOR DRAIN | 75 | 3 | 38 | 1.5 | 9 | 0.38 | - | - | - | - | NON-POTABLE SUPPLY FROM TSP |
| TD | TRENCH DRAIN | 75 | 3 | 38 | 1.5 | 9 | 0.38 | - | - | - | - | NON-POTABLE SUPPLY FROM TSP |
| TSP | TRAP SEAL PRIMER | - | - | - | - | 19 9" | 0.75 0.38" | - | - | - | - | * PER FD+FFD |
| WH-1 | EXTERIOR NON-FREEZE WALL HYDRANT | - | - | - | - | 19 | 0.75 | - | - | - | - | |
| WH-2 | INTERIOR DOUBLE TEMPERATURE WALL HYDRANT | - | - | - | - | 19 | 0.75 | 19 | 0.75 | - | - | |
| HB-1 | HOSE-BIBB | - | - | - | - | 19 | 0.75 | - | - | - | - | |
| PH-1 | POST HYDRANT | - | - | - | - | 19 | 0.75 | - | - | - | - | |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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| NO. | DATE. | NAME | REVISIONS | |

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| PRIME CONSULTANT | |  |
|  AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com | | |
| SUB CONSULTANT | | |

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|-----------------------|---------------------------------|
| DESIGN BY: Designer | SCALE: |
| DRAWN BY: Author | DATE: 04/01/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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| CONTRACT RE |
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| FAN SCHEDULE | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------------------------------|-------------------|--------------------------------------|--------------|-----------------------|------------------|-------|------------------|-------|-----------------|-------|------------------|-------|----------|---------------------|------------|---------|------------------|---|--|--|--|
| TAG | LOCATION | FUNCTION | FAN TYPE | MANUFACTURER | MODEL | MAXIMUM CAPACITY | | MINIMUM CAPACITY | | STATIC PRESSURE | | OPERATING WEIGHT | | FAN RPM | NOMINAL MOTOR POWER | | POWER | SOUND DATA SONES | CONTROLLED BY | REMARKS | | |
| | | | | | | LPS | CFM | LPS | CFM | Pa | IN WC | KGS | LBS | | W | MCA OR BHP | | | | | | |
| EF-1 | MECHANICAL ROOM [124] | GENERAL EXHAUST | CENTRIFUGAL CABINET FAN BELT DRIVE | PENNBARRY | ZEPHYR ZC12 | 639 | 1,350 | 213 | 450 | 75 | 0.3 | | | 500 | 250 | 0.2 BHP | 120/160 | | THERMOSTAT & OCCUPANCY SENSOR BY DIV. 25 | COMPLETE WITH 2-SPEED 2-WINDING TOTALLY ENCLOSED MOTOR, GRAVITY BACKDRAFT DAMPER, VIBRATION ISOLATION HANGER, FLEXIBLE DUCT CONNECTION, INLET GUARD, EPOXY COATING, INSULATION, DISCONNECT SWITCH AND THERMAL OVERLOAD PROTECTION. | | |
| EF-2 | ELECTRICAL ROOM [123] | GENERAL EXHAUST | CENTRIFUGAL CABINET FAN BELT DRIVE | PENNBARRY | ZEPHYR ZC15 | 1,183 | 2,500 | 1,183 | 2,500 | 87 | 0.35 | | | 1050 | 370 | 0.38 BHP | 120/160 | | THERMOSTAT BY DIV. 25 | COMPLETE WITH TOTALLY ENCLOSED MOTOR, GRAVITY BACKDRAFT DAMPER, VIBRATION ISOLATION HANGER, FLEXIBLE DUCT CONNECTION, INLET GUARD, EPOXY COATING, INSULATION, DISCONNECT SWITCH AND THERMAL OVERLOAD PROTECTION. | | |
| EF-3 | UNIVERSAL WASHROOM [119] | SANITARY EXHAUST | CENTRIFUGAL CEILING FAN DIRECT DRIVE | PENNBARRY | ZEPHYR Z1 | 24 | 50 | 24 | 50 | 31 | 0.125 | 3.6 | 8.0 | 1700 | 55 | - | 120/160 | 3.4 | INTERLOCKED WITH LIGHTING BY DIV. 26 | COMPLETE WITH UNIT MOUNTED SPEED CONTROLLER, VIBRATION ISOLATION HANGER AND FLEXIBLE DUCT CONNECTION. | | |
| EF-4 | DECONTAMINATION SHOWER [130] | SANITARY EXHAUST | CENTRIFUGAL CEILING FAN DIRECT DRIVE | PENNBARRY | ZEPHYR Z5H | 70 | 150 | 70 | 150 | 31 | 0.125 | 6.4 | 14.0 | 1550 | 80 | - | 120/160 | 3.3 | INTERLOCKED WITH LIGHTING BY DIV. 26 | COMPLETE WITH GRAVITY BACKDRAFT DAMPER, UNIT MOUNTED SPEED CONTROLLER, VIBRATION ISOLATION HANGER, FLEXIBLE DUCT CONNECTION AND WCC06 CURB-MOUNTED ROOF CAP. | | |
| EF-5 | LINEN ROOM [134] | GENERAL EXHAUST | CENTRIFUGAL CEILING FAN DIRECT DRIVE | PENNBARRY | ZEPHYR Z1 | 24 | 50 | 24 | 50 | 31 | 0.125 | 3.6 | 8.0 | 1700 | 55 | - | 120/160 | 3.4 | INTERLOCKED WITH LIGHTING BY DIV. 26 | COMPLETE WITH GRAVITY BACKDRAFT DAMPER, UNIT MOUNTED SPEED CONTROLLER, VIBRATION ISOLATION HANGER, FLEXIBLE DUCT CONNECTION, B68 BRICK VENT AND METAL FACE GRILLE. | | |
| EF-6 | STORAGE ROOM [116] | GENERAL EXHAUST | CENTRIFUGAL CEILING FAN DIRECT DRIVE | PENNBARRY | ZEPHYR Z1 | 24 | 50 | 24 | 50 | 31 | 0.125 | 3.6 | 8.0 | 1700 | 55 | - | 120/160 | 3.4 | INTERLOCKED WITH LIGHTING BY DIV. 26 | COMPLETE WITH GRAVITY BACKDRAFT DAMPER, UNIT MOUNTED SPEED CONTROLLER, VIBRATION ISOLATION HANGER, FLEXIBLE DUCT CONNECTION AND WCC06 CURB-MOUNTED ROOF CAP. | | |
| EF-7 | JANITOR ROOM [120] | SANITARY EXHAUST | CENTRIFUGAL CEILING FAN DIRECT DRIVE | PENNBARRY | ZEPHYR Z1 | 24 | 50 | 24 | 50 | 31 | 0.125 | 3.6 | 8.0 | 1700 | 55 | - | 120/160 | 3.4 | INTERLOCKED WITH LIGHTING BY DIV. 26 | COMPLETE WITH GRAVITY BACKDRAFT DAMPER, UNIT MOUNTED SPEED CONTROLLER, VIBRATION ISOLATION HANGER, FLEXIBLE DUCT CONNECTION AND WCC06 CURB-MOUNTED ROOF CAP. | | |
| DF-1 & DF-2 | VEHICLE BAY [131] | DE-STRATIFICATION | AXIAL DIRECT DRIVE | BIGASS FANS | POWERFOIL D PFD1-0822 | - | - | - | - | - | - | 96.2 | 212.0 | 200 MAX. | - | 10 MCA | 208/360 | <55dB | AUTOMATIC WALL MOUNTED VARIABLE SPEED BAFCON TOUCH CONTROLLER | 2.4 M (8 FT) DIAMETER, COMPLETE WITH AIRFOIL RESTRAINT AND SAFETY CABLE, MOUNTING KIT AND FIRE ALARM RELAY, TIE-IN TO BAS FOR CONTROL AND MONITORING. FINISH COLOUR SELECTED AT SHOP DRAWING REVIEW | | |

| FAN COIL SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------|------------|-----|------------|--------|--------|--------|---------|----------------------------------|----------------------------|--------|------|------|------|------|------|------|--------------|---------------|-----|------|-------------------|----------------------|----------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|---------------|---------------|------------|-----------------------|--------------------------|
| TAG | SPACE SERVED | DAIKIN MODEL | ELECTRICAL | | SUPPLY FAN | | | | | | CHILLED WATER COOLING COIL | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | VOLTAGE | MCA | | | | | | | EAT | | | | LAT | | | | FACE AREA M² | FACE AREA ft² | FPI | ROWS | TOTAL CAPACITY KW | TOTAL CAPACITY BTU/H | SENSIBLE CAPACITY KW | SENSIBLE CAPACITY BTU/H | ENTERING WATER TEMP. °C | ENTERING WATER TEMP. °F | LEAVING WATER TEMP. °C | LEAVING WATER TEMP. °F | FLOW RATE LPS | FLOW RATE GPM | FLUID TYPE | WATER PRESS. DROP kPa | WATER PRESS. DROP ft H₂O |
| | | | | | EDB °C | EDB °F | EWB °C | EWB °F | LDB °C | LDB °F | LWB °C | LWB °F | | | | | | | | | | | | | | | | | | | | | | | |
| FC-1 | 114 SIM LAB & 115 STORAGE | FCH1203 | 115/1/60 | 2.2 | 142 | 300 | 37.4 | 0.15 | 1/8 | 3-SPEED ECM | 24.4 | 76.0 | 18.7 | 65.7 | 12.2 | 54.0 | 12.2 | 53.9 | 0.10 | 1.1 | 12 | 4 | 2.81 | 9595 | 1.89 | 6445 | 6.7 | 44.0 | 12.2 | 54.0 | 0.12 | 1.9 | Water | 4.39 | 1.47 |
| FC-2 | 128 WASHROOMS & 129 LOCKER ROOM | FCH1206 | 115/1/60 | 4.7 | 283 | 600 | 37.4 | 0.15 | 1/4 | 3-SPEED ECM | 24.5 | 76.1 | 18.2 | 64.8 | 11.9 | 53.5 | 11.8 | 53.2 | 0.20 | 2.1 | 12 | 4 | 5.53 | 18872 | 3.94 | 13452 | 6.7 | 44.0 | 12.2 | 54.0 | 0.24 | 3.8 | Water | 20.71 | 6.93 |
| FC-3 | 103 REPORT WRITING | FCH1206 | 115/1/60 | 2.9 | 283 | 600 | 37.4 | 0.15 | 1/4 | 3-SPEED ECM | 24.4 | 75.9 | 17.6 | 63.6 | 11.7 | 53.0 | 11.2 | 52.2 | 0.20 | 2.1 | 12 | 4 | 4.54 | 15502 | 3.50 | 11953 | 6.7 | 44.0 | 12.2 | 53.9 | 0.20 | 3.1 | Water | 14.65 | 4.90 |
| FC-4 | 104 KITCHEN | FCH1210 | 115/1/60 | 5.8 | 472 | 1000 | 37.4 | 0.15 | (2) 1/4 | 3-SPEED ECM | 24.4 | 76.0 | 17.8 | 64.1 | 14.8 | 58.6 | 13.7 | 56.6 | 0.29 | 3.1 | 12 | 2 | 5.84 | 19948 | 4.79 | 16352 | 6.7 | 44.0 | 12.2 | 53.9 | 0.25 | 4.0 | Water | 14.86 | 4.97 |
| FC-5 | 102 CORRIDOR & 122 VESTIBULE | FCH1212 | 115/1/60 | 8.5 | 567 | 1200 | 37.4 | 0.15 | (2) 1/4 | 3-SPEED ECM | 24.5 | 76.1 | 17.8 | 64.1 | 11.9 | 53.4 | 11.3 | 52.4 | 0.35 | 3.8 | 12 | 4 | 11.16 | 38103 | 8.06 | 27524 | 6.7 | 44.0 | 12.2 | 53.9 | 0.49 | 7.7 | Water | 27.23 | 9.11 |
| FC-6 | 126 SECURE STORAGE & 127 MEDICAL STORAGE | FCH1202 | 115/1/60 | 2.2 | 94 | 200 | 37.4 | 0.15 | 1/8 | 3-SPEED ECM | 24.4 | 76.0 | 18.3 | 65.0 | 13.0 | 55.4 | 12.7 | 54.8 | 0.07 | 0.7 | 12 | 3 | 1.54 | 5252 | 1.12 | 3818 | 6.7 | 44.0 | 12.2 | 54.0 | 0.07 | 1.1 | Water | 1.14 | 0.38 |
| FC-7 | 121 KITCHEN | FCH1212 | 115/1/60 | 8.5 | 567 | 1200 | 49.8 | 0.20 | (2) 1/4 | 3-SPEED ECM | 24.6 | 76.2 | 17.9 | 64.2 | 12.5 | 54.5 | 11.6 | 52.8 | 0.35 | 3.8 | 12 | 3 | 10.53 | 35923 | 7.43 | 25346 | 6.7 | 44.0 | 12.2 | 54.0 | 0.45 | 7.2 | Water | 35.66 | 11.93 |
| FC-8 & FC-19 | 108 OPEN OFFICE | FCH1208 | 115/1/60 | 5.3 | 378 | 800 | 37.4 | 0.15 | 1/4 | 3-SPEED ECM | 24.6 | 76.3 | 17.8 | 64.0 | 11.9 | 53.4 | 11.6 | 52.8 | 0.23 | 2.5 | 12 | 4 | 6.72 | 22924 | 5.12 | 17465 | 6.7 | 44.0 | 12.2 | 54.0 | 0.29 | 4.6 | Water | 32.10 | 10.74 |
| FC-9 | 109 BREAK-OUT & 110 STORAGE | FCH1203 | 115/1/60 | 2.2 | 142 | 300 | 37.4 | 0.15 | 1/8 | 3-SPEED ECM | 24.3 | 75.8 | 18.4 | 65.2 | 13.3 | 56.0 | 13.2 | 55.8 | 0.10 | 1.1 | 12 | 4 | 2.12 | 7236 | 1.65 | 5643 | 6.7 | 44.0 | 12.2 | 54.0 | 0.09 | 1.5 | Water | 3.44 | 1.15 |
| FC-10 | 112 CLASSROOM | FCH1210 | 115/1/60 | 5.8 | 472 | 1000 | 37.4 | 0.15 | (2) 1/4 | 3-SPEED ECM | 24.4 | 75.9 | 19.2 | 66.5 | 12.9 | 55.2 | 12.7 | 54.9 | 0.29 | 3.1 | 12 | 3 | 8.94 | 30514 | 5.66 | 19308 | 6.7 | 44.0 | 12.2 | 54.0 | 0.38 | 6.1 | Water | 23.02 | 7.70 |
| FC-11 | 113 CLASSROOM | FCH1210 | 115/1/60 | 5.8 | 472 | 1000 | 37.4 | 0.15 | (2) 1/4 | 3-SPEED ECM | 24.4 | 75.9 | 19.2 | 66.5 | 12.9 | 55.2 | 12.7 | 54.9 | 0.29 | 3.1 | 12 | 3 | 8.94 | 30514 | 5.66 | 19308 | 6.7 | 44.0 | 12.2 | 54.0 | 0.38 | 6.1 | Water | 23.02 | 7.70 |
| FC-12 | 107 CORRIDOR | FCH1212 | 115/1/60 | 8.5 | 567 | 1200 | 49.8 | 0.20 | (2) 1/4 | 3-SPEED ECM | 24.6 | 76.2 | 17.9 | 64.2 | 12.5 | 54.5 | 11.6 | 52.8 | 0.35 | 3.8 | 12 | 3 | 10.53 | 35923 | 7.43 | 25346 | 6.7 | 44.0 | 12.2 | 54.0 | 0.45 | 7.2 | Water | 35.66 | 11.93 |
| FC-13 | 105 LOUNGE | FCH1210 | 115/1/60 | 5.8 | 472 | 1000 | 37.4 | 0.15 | (2) 1/4 | 3-SPEED ECM | 24.4 | 75.9 | 17.8 | 64.1 | 14.7 | 58.5 | 13.6 | 56.5 | 0.29 | 3.1 | 12 | 2 | 5.72 | 19534 | 4.71 | 16061 | 6.7 | 44.0 | 12.2 | 54.0 | 0.25 | 3.9 | Water | 14.29 | 4.78 |
| FC-20 | 123 ELECTRICAL ROOM | BCHD0081 | 115/1/60 | 8.0 | 378 | 800 | 37.4 | 0.15 | 1/2 | 3-SPEED DIRECT CONTACT BRUSHLESS | 30.6 | 87.0 | 17.8 | 64.1 | 12.7 | 54.8 | 11.2 | 52.2 | 0.15 | 1.6 | 12 | 6 | 8.24 | 28131 | 8.24 | 28131 | 6.7 | 44.0 | 12.2 | 54.0 | 0.35 | 5.6 | Water | 23.61 | 7.90 |

| FAN COIL SCHEDULE (PART 2) | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|------------------------|--------|--------|--------|-----|------|-------------------|----------------------|-------------------------|-------------------------|------------------------|------------------------|---------------|---------------|------------|-----------------------|---------------------------------------|--|
| TAG | SPACE SERVED | HOT WATER HEATING COIL | | | | | | | | | | | | | | | | | |
| | | EDB °C | EDB °F | LDB °C | LDB °F | FPI | ROWS | TOTAL CAPACITY KW | TOTAL CAPACITY BTU/H | ENTERING WATER TEMP. °C | ENTERING WATER TEMP. °F | LEAVING WATER TEMP. °C | LEAVING WATER TEMP. °F | FLOW RATE LPS | FLOW RATE GPM | FLUID TYPE | WATER PRESS. DROP kPa | WATER PRESS. DROP ft H ₂ O | |
| FC-1 | 114 SIM LAB & 115 STORAGE | 21.4 | 70.5 | 34.4 | 93.9 | 12 | 2 | 2.01 | 6862 | 48.9 | 120.0 | 37.7 | 99.9 | 0.04 | 0.7 | Water | 1.85 | 0.62 | |
| FC-2 | 128 WASHROOMS & 129 LOCKER ROOM | 21.7 | 71.0 | 35.6 | 96.0 | 12 | 2 | 4.35 | 14857 | 48.9 | 120.0 | 37.8 | 100.1 | 0.09 | 1.5 | Water | 10.49 | 3.51 | |
| FC-3 | 103 REPORT WRITING | 21.9 | 71.5 | 28.6 | 83.5 | 12 | 1 | 1.84 | 6272 | 48.9 | 120.0 | 37.8 | 100.1 | 0.04 | 0.6 | Water | 4.24 | 1.42 | |
| FC-4 | 104 KITCHEN | 21.6 | 70.8 | 35.5 | 95.9 | 12 | 2 | 6.94 | 23696 | 48.9 | 120.0 | 37.8 | 100.1 | 0.15 | 2.4 | Water | 5.17 | 1.73 | |
| FC-5 | 102 CORRIDOR & 122 VESTIBULE | 21.8 | 71.2 | 36.2 | 97.2 | 12 | 2 | 9.22 | 31471 | 48.9 | 120.0 | 37.8 | 100.1 | 0.20 | 3.2 | Water | 9.86 | 3.30 | |
| FC-6 | 128 SECURE STORAGE & 127 MEDICAL STORAGE | 21.7 | 71.0 | 35.6 | 96.1 | 12 | 1 | 0.78 | 2655 | 48.9 | 120.0 | 37.8 | 100.0 | 0.02 | 0.3 | Water | 5.08 | 1.70 | |
| FC-7 | 121 KITCHEN | 21.8 | 71.2 | 35.4 | 95.7 | 12 | 2 | 8.38 | 28590 | 48.9 | 120.0 | 37.8 | 100.1 | 0.18 | 2.9 | Water | 8.13 | 2.72 | |
| FC-8 & FC-19 | 108 OPEN OFFICE | 21.8 | 71.2 | 34.2 | 93.5 | 12 | 2 | 4.97 | 16977 | 48.9 | 120.0 | 37.8 | 100.1 | 0.11 | 1.7 | Water | 14.44 | 4.83 | |
| FC-9 | 109 BREAK-OUT & 110 STORAGE | 21.9 | 71.4 | 36.1 | 97.0 | 12 | 1 | 0.26 | 900 | 48.9 | 120.0 | 37.8 | 100.1 | 0.01 | 0.1 | Water | 0.15 | 0.05 | |
| FC-10 | 112 CLASSROOM | 21.7 | 71.0 | 36.2 | 97.1 | 12 | 2 | 7.12 | 24292 | 48.9 | 120.0 | 37.8 | 100.1 | 0.16 | 2.5 | Water | 5.47 | 1.83 | |
| FC-11 | 113 CLASSROOM | 21.7 | 71.0 | 36.2 | 97.1 | 12 | 2 | 7.12 | 24292 | 48.9 | 120.0 | 37.8 | 100.1 | 0.16 | 2.5 | Water | 5.47 | 1.83 | |
| FC-12 | 107 CORRIDOR | 21.8 | 71.2 | 35.4 | 95.7 | 12 | 2 | 8.38 | 28590 | 48.9 | 120.0 | 37.8 | 100.1 | 0.18 | 2.9 | Water | 8.13 | 2.72 | |
| FC-13 | 105 LOUNGE | 21.7 | 71.1 | 28.9 | 84.1 | 12 | 1 | 3.52 | 12024 | 48.9 | 120.0 | 37.8 | 100.1 | 0.08 | 1.2 | Water | 17.49 | 5.85 | |
| FC-20 | 123 ELECTRICAL ROOM | 18.3 | 65.0 | 26.9 | 80.5 | 12 | 1 | 1.44 | 4900 | 48.9 | 120.0 | 37.8 | 100.1 | 0.03 | 0.5 | Water | 12.25 | 4.10 | |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

| HUMIDIFIER SCHEDULE | | | | | | | | | |
|---------------------|----------------------------|----------------------|-------|--------------|----|------|------------------|-----|--|
| TAG | MANUFACTURER / MODEL | MAX. STEAM FLOW RATE | | POWER SUPPLY | | | OPERATING WEIGHT | | REMARKS |
| | | KG/HR | LB/HR | V / PH / Hz | KW | FLA | KG | LBS | |
| HUM-1 | DRISTEEM / VAPORMIST VM-14 | 19.1 | 42.0 | 600 / 3 / 60 | 14 | 13.5 | 63 | 139 | MODULATING SOLID STATE RELAY CONTROLLED, WITH BAGNET COMMUNICATION AND DISCONNECT SWITCH. COMPLETE WITH DRISTEEM "DRANE-KOOLER". REMOTE HIGH HUMIDITY SWITCH AND AIR PROVING SWITCH IN SUPPLY AIR DUCT. CONNECTED TO "DRISTEEM RAPIDSORB" STEAM DISPERSION TUBES WITH STAINLESS STEEL HEADER AND TUBE INSIDE ASSOCIATED SUPPLY AIR DUCT. |

| HYDRONIC HEAT TRANSFER UNITS SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------------|--------------------------|------------------------------------|----------------------|---------------|-----|------|------|------|-------|-------|------|-------|------|-------|-----------|-----|---------------------|---------|-----------------------|-----|------------|----------------|--------------|------|------------------|-------|--------------------|-------------------|---|
| TAG | TYPE | LOCATION | CONFIGURATION | MANUFACTURER / MODEL | MAX. AIR FLOW | | EAT | | LAT | | FLUID | EWT | | LWT | | FLOW RATE | | WATER PRESSURE DROP | | MAX. HEATING CAPACITY | | MOTOR SIZE | MAX. FAN SPEED | POWER SUPPLY | AMP. | OPERATING WEIGHT | | DIMENSIONS | | REMARKS |
| | | | | | LPS | CFM | °C | °F | °C | °F | | °C | °F | °C | °F | LPS | GPM | kPa | FT.W.G. | KW | MBH | | | | | HP | RPM | MM | IN | |
| UH-1 | UNIT HEATER | MECH. ROOM [124] | HORIZONTAL | SIGMA 058H | 429 | 910 | 18.0 | 64.4 | 28.0 | 82.4 | WATER | 48.9 | 120.0 | 37.8 | 100.0 | 0.11 | 1.8 | 0.36 | 0.12 | 5.3 | 18 | 0.125 | 1150 | 115 / 1 / 60 | 2 | 21.8 | 48.0 | W 685 D 18 H 420 | W 27 D 18 H 16.5 | COMPLETE WITH WALL BRACKET, HORIZONTAL LOUVRES, OSHA FAN GUARD, OVERLOAD PROTECTION, DISCONNECT SWITCH AND REMOTE THERMOSTAT WITH INSULATED SUB-BASE |
| FF-1 | FORCE FLOW HEATER | VESTIBULE [101] | RECESSED FRONT IN / FRONT OUT | SIGMA SFF-03 | 142 | 300 | 18.0 | 64.4 | 40.2 | 104.4 | WATER | 48.9 | 120.0 | 37.8 | 100.0 | 0.08 | 1.3 | 1.13 | 0.38 | 3.8 | 13 | 0.100 | 1075 | 115 / 1 / 60 | 1.9 | 56.8 | 125.0 | W 1028 D 240 H 660 | W 40.5 D 9.5 H 26 | COMPLETE WITH LOUVRES, ACCESS DOOR, OVERLOAD PROTECTION, DISCONNECT SWITCH, UNIT MOUNTED THERMOSTAT AND SPEED CONTROLLER. COLOUR TO BE SELECTED AT SHOP DRAWING REVIEW. |
| FF-3 | FORCE FLOW HEATER | VESTIBULE [122] | SEMI-RECESSED FRONT IN / FRONT OUT | SIGMA SFF-02 | 94 | 200 | 21.1 | 70.0 | 39.1 | 102.4 | WATER | 48.9 | 120.0 | 37.8 | 100.0 | 0.04 | 0.7 | 0.81 | 0.27 | 2.1 | 7 | 0.100 | 1075 | 115 / 1 / 60 | 1.9 | 34.1 | 75.0 | W 660 D 240 H 660 | W 26 D 9.5 H 26 | COMPLETE WITH LOUVRES, ACCESS DOOR, OVERLOAD PROTECTION, DISCONNECT SWITCH, UNIT MOUNTED THERMOSTAT AND SPEED CONTROLLER. COLOUR TO BE SELECTED AT SHOP DRAWING REVIEW. |
| FF-4 | FORCE FLOW HEATER | GENDER NEUTRAL W/R [117] | RECESSED CEILING MOUNTED | SIGMA SFF-02 | 94 | 200 | 21.1 | 70.0 | 41.7 | 107.0 | WATER | 48.9 | 120.0 | 37.8 | 100.0 | 0.05 | 0.8 | 0.90 | 0.30 | 2.3 | 8 | 0.100 | 1075 | 115 / 1 / 60 | 1.9 | 34.1 | 75.0 | W 660 D 240 H 660 | W 26 D 9.5 H 26 | COMPLETE WITH LOUVRES, ACCESS DOOR, OVERLOAD PROTECTION, DISCONNECT SWITCH, REMOTE THERMOSTAT AND SPEED CONTROLLER. COLOUR TO BE SELECTED AT SHOP DRAWING REVIEW. |
| FF-5 | FORCE FLOW HEATER | CORRIDOR [107] | SEMI-RECESSED FRONT IN / FRONT OUT | SIGMA SFF-02 | 94 | 200 | 21.1 | 70.0 | 33.9 | 93.1 | WATER | 48.9 | 120.0 | 37.8 | 100.0 | 0.03 | 0.5 | 0.60 | 0.20 | 1.5 | 5 | 0.100 | 1075 | 115 / 1 / 60 | 1.9 | 34.1 | 75.0 | W 660 D 240 H 660 | W 26 D 9.5 H 26 | COMPLETE WITH LOUVRES, ACCESS DOOR, OVERLOAD PROTECTION, DISCONNECT SWITCH, UNIT MOUNTED THERMOSTAT AND SPEED CONTROLLER. COLOUR TO BE SELECTED AT SHOP DRAWING REVIEW. |
| CH-1 | CONVECTOR HEATER | STORAGE [116] | WALL TYPE | SIGMA CWF | - | - | - | - | - | - | WATER | 48.9 | 120.0 | 37.8 | 100.0 | 0.01 | 0.2 | | | 0.5 | 1.7 | - | - | - | - | | | W 500 D 115 H 350 | W 20 D 4.5 H 14 | FLAT TOP, COMPLETE WITH 16 GA. FRONT COVER AND REMOTE THERMOSTAT. COLOUR TO BE SELECTED AT SHOP DRAWING REVIEW. |

| IN-FLOOR RADIANT CIRCUITS SCHEDULE | | | | | | | | | | | | | | |
|------------------------------------|--------------------------------------|-------------------------------------|------------------|-----------|-------|-----------|-------|--------------|----------|------------|-------|-----------|-------|---|
| MANIFOLD | AREA SERVED | REHAU ARTICLE NO. | CIRCUIT QUANTITY | HEAT LOAD | | PIPE SIZE | | PIPE SPACING | | WATER FLOW | | HEAD LOSS | | REMARKS |
| | | | | KW | MBH | MM | INS. | MM | INS. | LPS | GPM | KPA | FT | |
| M-1 | 133 WASH AREA AND 134 OXYGEN & LINEN | PRO-BALANCE 381102-001 & 345400-512 | 3 | 6.44 | 22.0 | 16 | 0.625 | 150 | 6 | 0.14 | 2.20 | 15.82 | 5.30 | 25MM (1") STAINLESS STEEL MANIFOLD AND WHITE FLUSH MOUNT MANIFOLD CABINET. PROVIDE PROGRAMMABLE RADIANT THERMOSTAT WITH SEPARATE CONTROL VALVES AND FLOOR SENSORS FOR WASH BAY AND OXYGEN/LINEN ROOM (ART. NO. 398023) AND 4 MANIFOLD ACTUATOR CONTROLLER (ART. NO. 298276-001) |
| M-2 | 131 VEHICLE BAY | PRO-BALANCE 381110-001 & 316856-512 | 10 | 30.16 | 103.0 | 16 | 0.625 | 150 AND 250 | 6 AND 12 | 0.65 | 10.30 | 41.49 | 13.90 | 25MM (1") STAINLESS STEEL MANIFOLD AND STAINLESS STEEL SURFACE MOUNT MANIFOLD CABINET. PROVIDE TWO PROGRAMMABLE RADIANT THERMOSTATS WITH SEPARATE CONTROL VALVES AND FLOOR SENSORS (ART. NO. 398023) AND 4 MANIFOLD ACTUATOR CONTROLLER (ART. NO. 298276-001) |

| LOUVRE SCHEDULE | | | | | | | | | | | |
|-----------------|-------------|----------------------|---------------------|---------------|----------------|--------------|----------|-----|----------|-----|--|
| TAG | LOCATION | MANUFACTURER / MODEL | APPLICATION | FREE AREA SQM | SIZE | | VELOCITY | | AIR FLOW | | ACCESSORIES / COLOUR |
| | | | | | MM | INS | MPS | FPM | LPS | CFM | |
| C1 & C2 | OXYGEN ROOM | VENTEX / 2625 | NATURAL VENTILATION | 0.05 | 400 W 400 H | 16 W 16 H | --- | --- | --- | --- | 150MM (6") DEEP STORMPROOF LOUVRE, COMPLETE WITH INSECT SCREEN AND EXTENDED SLEEVE. LOUVRE COLOUR SHALL BE SELECTED AT SHOP DRAWING REVIEW. CONTRACTOR TO PROVIDE LINTEL FOR INSTALLATION. |

| PUMP SCHEDULE | | | | | | | | | | | | | | | | | | |
|---------------|-----------|---------------------------------------|----------------|--------------|-------------------|------------|-----|------------------|-----|------|----|------------|-------|------|-------|--------------------|------------------|--|
| TAG | LOCATION | SERVICE | FLUID TYPE | MANUFACTURER | MODEL | FLOW (MAX) | | FLOW (OPERATING) | | HEAD | | MOTOR DATA | | | | CONTROLS | POWER V/Ph/Hz | REMARKS |
| | | | | | | LPM | GPM | LPM | GPM | M | FT | RPM | BHP | HP | WATTS | | | |
| P-1A&B | MECH ROOM | GEO FIELD PRIMARY PUMPS | 25% P.G. | XYLEM | E-1531 2BD | 492.1 | 130 | 469.4 | 124 | 15.2 | 50 | 1531 | 2.47 | 5 | | VFD (LOOSE) | 575/3/60 | DUTY/STANDBY, VARIABLE SPEED OPERATION, INTEGRATED TECHNOLOGIC SENSORLESS CONTROL (ITSC) |
| P-2 | MECH ROOM | HP-1 SECONDARY PUMP | 25% P.G. | XYLEM | E-80 3x3x7C | 492.1 | 130 | 469.4 | 124 | 6.1 | 20 | 1548 | 0.9 | 1.5 | | VFD (PUMP MOUNTED) | 575/3/60 | VARIABLE SPEED OPERATION |
| P-3 | MECH ROOM | HP-2 SECONDARY PUMP | 25% P.G. | XYLEM | E-80 2x2x9.5C | 170.3 | 45 | 147.6 | 39 | 4.3 | 14 | 976 | 0.35 | 0.75 | | VFD (PUMP MOUNTED) | 575/3/60 | VARIABLE SPEED OPERATION |
| P-4A&B | MECH ROOM | CHILLED WATER PRIMARY PUMPS | WATER | XYLEM | E-80SC 3x3x7C | 397.5 | 105 | 371.0 | 98 | 3.7 | 12 | 991 | 0.4 | 0.75 | | VFD (PUMP MOUNTED) | 575/3/60 | DUTY/STANDBY, CONSTANT SPEED OPERATION |
| P-5A&B | MECH ROOM | HEATING WATER PRIMARY PUMPS | WATER | XYLEM | E-80 3x3x7C | 605.7 | 160 | 473.2 | 125 | 4.6 | 15 | 1140 | 0.82 | 1 | | VFD (PUMP MOUNTED) | 575/3/60 | DUTY/STANDBY, VARIABLE SPEED OPERATION, INTEGRATED TECHNOLOGIC SENSORLESS CONTROL (ITSC) |
| P-6A&B | MECH ROOM | CHILLED WATER SECONDARY PUMPS | WATER | XYLEM | E-90 2AB | 397.5 | 105 | 371.0 | 98 | 9.1 | 30 | 1696 | 1.13 | 1.5 | | VFD (LOOSE) | 575/3/60 | DUTY/STANDBY, VARIABLE SPEED OPERATION |
| P-7A&B | MECH ROOM | HEATING WATER SECONDARY PUMPS | WATER | XYLEM | E-80 2x2x9.5C | 302.8 | 80 | 276.3 | 73 | 9.1 | 30 | 1098 | 1.02 | 1.5 | | VFD (PUMP MOUNTED) | 575/3/60 | DUTY/STANDBY, VARIABLE SPEED OPERATION, INTEGRATED TECHNOLOGIC SENSORLESS CONTROL (ITSC) |
| P-8 | MECH ROOM | HEATING GLYCOL SECONDARY PUMP | 40% P.G. | XYLEM | E-80 1.5x1.5x9.5B | 94.6 | 25 | 83.3 | 22 | 6.1 | 20 | 1070 | 0.283 | 0.5 | | VFD (PUMP MOUNTED) | 575/3/60 | VARIABLE SPEED OPERATION, INTEGRATED TECHNOLOGIC SENSORLESS CONTROL (ITSC) |
| P-9 | MECH ROOM | ELECTRIC BOILER INJECTION PUMP | WATER | XYLEM | ECOCIRC XL 15-75 | 132.5 | 35 | 121.1 | 32 | 3.0 | 10 | 2315 | | 0.16 | | STARTER | 120/1/60 | ECM MOTOR |
| P-10 | MECH ROOM | DOMESTIC HOT WATER RECIRCULATION PUMP | DOMESTIC WATER | XYLEM | ECOCIRC 19-16 | 15.1 | 4 | 15.1 | 4 | 2.4 | 8 | 1929 | | | 60 | STARTER | 120/1/60 | ECM MOTOR C/W AQUASTAT, TIMER AND BAS INTERLOCK |

| RANGE HOOD SCHEDULE | | | | | | | | | | | | | | | |
|---------------------|---------------|------------------------|--------------|-----------------------------|--------------------------|----------|-----|-----------------|-------|-------------|------|----------|------------|----------------|--|
| TAG | LOCATION | FUNCTION | MANUFACTURER | MODEL | BLOWER TYPE | CAPACITY | | STATIC PRESSURE | | MOTOR POWER | | | SOUND DATA | CONTROLLED BY | REMARKS |
| | | | | | | LPS | CFM | Pa | IN WC | RPM | AMP. | V/PH/Hz | SONES | | |
| KH-1 | KITCHEN [121] | RESIDENTIAL RANGE HOOD | REVERSOMATIC | DELUXE 2000-200 600MM (24") | CENTRIFUGAL DIRECT DRIVE | 80 | 170 | 37 | 0.15 | 1,500 | 1.4 | 115/1/60 | 6.0 | MANUAL CONTROL | COMPLETE WITH INTEGRAL SPEED CONTROLLER, 60W LIGHT AND WHITE FINISH. |
| KH-2 | KITCHEN [104] | RESIDENTIAL RANGE HOOD | REVERSOMATIC | DELUXE 2000-200 600MM (24") | CENTRIFUGAL DIRECT DRIVE | 80 | 170 | 37 | 0.15 | 1,500 | 1.4 | 115/1/60 | 6.0 | MANUAL CONTROL | COMPLETE WITH INTEGRAL SPEED CONTROLLER, 60W LIGHT AND WHITE FINISH. |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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| | NO. | DATE. | NAME | REVISIONS |

PRIME CONSULTANT

AECOM

AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com



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| DESIGN BY: Designer | SCALE: |
| DRAWN BY: Author | DATE: 06/10/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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| | 2 | 03/14/22 | | ISSUED FOR CONSTRUCTION |
| | 1 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| | 0 | 09/22/21 | | ISSUED FOR TENDER |
| | NO | DATE | NAME | REVISIONS |



THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL SCHEDULES

| | | |
|-----------------------------|----------------------|--------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-703 | SHEET NO. |

| SILENCER SCHEDULE | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------|--------|----------------------|----------------------|-----------------------|---------------|--------------------|---------------------------------|-------------------------------|---------------------------------------|----------------------------------|-----|-----|-----|------|------|------|------|---------|
| TAG | VIBRO-ACOUSTICS MODEL NUMBER | SYSTEM | TYPE (NOTE 1) | DIMENSIONS | | | AIRFLOW L/S | VELOCITY (NOTE 2) M/S | IDEAL DP (NOTE 3) Pa | MAX.DP W/SYS EFF (NOTE 4) Pa | MINIMUM DYNAMIC INSERTION LOSS | | | | | | | | Notes |
| | | | | DUCT WIDTH MM. | DUCT HEIGHT MM. | LENGTH MM. | | | | | dB (NOTE 5) | | | | | | | | |
| | | | | | | | | | | | OCTAVE BAND CENTER FREQUENCY, HZ | | | | | | | | |
| | | | | | | | | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| SL-S | RD-LV-AY26997 | SUPPLY | RD | 650 | 350 | 900 | 967 | +4 | 42 | 59 | 5 | 8 | 15 | 20 | 23 | 19 | 14 | 12 | 6, 7, 8 |
| SL-R1 | RD-ULV-AY26997 | RETURN | RD | 500 | 250 | 900 | 392 | -3 | 27 | 33 | 9 | 18 | 21 | 17 | 22 | 16 | 13 | 12 | 6, 7, 8 |
| SL-R2 | RD-ULV-AY26997 | RETURN | RD | 500 | 400 | 900 | 599 | -3 | 25 | 30 | 9 | 18 | 21 | 17 | 22 | 16 | 13 | 12 | 6, 7, 8 |
| Notes: 1. TYPE: R - RECTANGULAR D - DISSIPATIVE 2. VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-13. 3. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-13 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY. 4. PRESSURE DROP PER ASTM E477-13 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS. 5. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-13 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY. 6. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVELS, INCLUDING AIRBORNE AND BREAKOUT NOISE, MEET THE REQUIRED CRITERIA. 7. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED PRESSURE DROP CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT INSTALLED PRESSURE DROP WITH SYSTEM EFFECTS DOES NOT EXCEED SCHEDULED VALUES. 8. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES. | | | | | | | | | | | | | | | | | | | |

| VARIABLE AIR VOLUME (VAV) TERMINAL BOX SCHEDULE | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|---|------------------------|-----|---------------------|-----|--------|-----|------------------------|-----|---------|-----|------------|----------|-------------------|-----|-----------------------|------|---|
| TAG | MANUFACTURER & MODEL | TERMINAL TYPE | NOMINAL INLET DIAMETER | | NOMINAL OUTLET SIZE | | | | TERMINAL AIRFLOW RANGE | | | | MINIMUM Ps | | ATTENUATOR LENGTH | | NC SOUND DATA MAXIMUM | | REMARKS |
| | | | | | WIDTH | | HEIGHT | | MINIMUM | | MAXIMUM | | | | | | | | |
| | | | MM | INS | MM | INS | MM | INS | LPS | CFM | LPS | CFM | PA | INS.W.C. | MM | INS | DISC. | RAD. | |
| 04 | KRUEGER LMHS-1-1-1-XX-04-D | SINGLE INLET, PRESSURE INDEPENDENT (SUPPLY) | 100 | 4 | 300 | 12 | 200 | 8 | 19 | 40 | 109 | 230 | 25 | 0.10 | 900 | 36 | 32 | 24 | COMPLETE WITH 25 MM (1 IN) INSULATION AND LINEAR AVERAGING SENSOR, DIGITAL CONTROLS SUPPLIED BY THIS DISCIPLINE AND INSTALLED BY THE TERMINAL MANUFACTURER. |
| 05 | KRUEGER LMHS-1-1-1-XX-05-D | | 125 | 5 | 300 | 12 | 200 | 8 | 29 | 62 | 170 | 360 | | | 900 | 36 | 31 | 21 | |
| 06 | KRUEGER LMHS-1-1-1-XX-06-D | | 150 | 6 | 300 | 12 | 200 | 8 | 42 | 89 | 243 | 515 | | | 900 | 36 | 27 | 25 | |

| HEAT PUMP SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----------------------|----------------------|--------|------------------|------|-----------------|-----------------|--------------|-------------|---------------------|-----|------|------------------------|----|-------------|----|-------|-------|------|-------------|-------------|-------|------|-----|------|-----|------|-----|-----|-------|
| TAG | LOCATION | MANUFACTURER / MODEL | TYPE | OPERATING WEIGHT | | CIRCUIT DATA | | | | COOLING PERFORMANCE | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | CAPACITY | | EER | GEOTHERMAL SOURCE SIDE | | | | | | | | SYSTEM SIDE | | | | | | | | | |
| | | | | | | | | | | | | | FLOW | | PRESS. DROP | | FLUID | FLOW | | PRESS. DROP | | FLUID | | | | | | | | |
| | | | | KG | LBS | COMPRESSOR TYPE | COMPRESSOR QTY. | CIRCUIT QTY. | REFRIGERANT | KW | TON | | C | F | C | F | | LPS | GPM | M | FT | C | F | C | F | LPS | GPM | M | FT | FLUID |
| HP-1 | MECHANICAL ROOM [124] | AERMEC / NXP0650Y | 6 PIPE | 1450 | 3196 | SCROLL | 4 | 2 | R410A | 144.1 | 41 | 15.6 | 29.5 | 85 | 35.0 | 95 | 7.8 | 124.0 | 4.75 | 15.60 | 25% PROP. | 12.2 | 54.0 | 6.7 | 44.0 | 6.2 | 98.3 | 2.0 | 6.6 | WATER |
| HP-2 | | AERMEC / WRL400Y | 4 PIPE | 411 | 907 | SCROLL | 2 | 1 | R410A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

| HEAT PUMP SCHEDULE (PART 2) | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------------------|-------|------|------------------------|-----|------|----|------|------|------|------|-------------|------|-------|------|-------|-----|------|------|-----|-------------|----|-------------|---------|-------|
| TAG | HEATING PERFORMANCE | | | | | | | | | | | | | | | | | | | | SOUND POWER | | ELECTRICAL | | |
| | CAPACITY | | COP | GEOTHERMAL SOURCE SIDE | | | | | | | | WATER SIDE | | | | | | | | | | | | | |
| | | | | EWT | | | | FLOW | | | | PRESS. DROP | | FLUID | EWT | | | | FLOW | | | | PRESS. DROP | | FLUID |
| | | | | kW | MBH | C | F | C | F | LPS | GPM | M | FT | | C | F | C | F | LPS | GPM | M | FT | | | |
| HP-1 | 119.8 | 409.0 | 3 | 1.7 | 35 | -2.8 | 27 | 4.6 | 73.2 | 1.86 | 6.10 | 25% PROP. | 43.4 | 110.0 | 48.9 | 120.0 | 5.2 | 82.6 | 1.4 | 4.7 | WATER | 79 | 575/3/60 | 58 / 70 | |
| HP-2 | 62.1 | 212.0 | 3.23 | 1.7 | 35 | -2.8 | 27 | 2.4 | 38.4 | 2.93 | 9.60 | 25% PROP. | 43.4 | 110.0 | 48.9 | 120.0 | 2.7 | 42.8 | 2.8 | 9.1 | WATER | 82 | 575/3/60 | 35 / 40 | |


| GLYCOL MAKEUP UNIT SCHEDULE | | | | | | | | | | | | | | |
|-----------------------------|-----------------|----------------|--------|----------------|-----|----------------|--------|----------------|------|-------------|----------|-----------------|-----|---------|
| TAG | LOCATION | MANUFACTURER | MODEL | PUMP FLOW RATE | | PRESSURE RANGE | | RESERVOIR SIZE | | MOTOR POWER | | SHIPPING WEIGHT | | REMARKS |
| | | | | LPS | GPM | kPa | PSI | LIT. | GAL. | HP | V/PH/Hz | KG | LBS | |
| G-1 | MECHANICAL ROOM | BELL & GOSSETT | GMU-30 | 0.63 | 10 | 21 - 207 | 3 - 30 | 208 | 55 | 1/2 | 115/1/60 | 73 | 160 | |

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1890 Fifth Concession Rd

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| CONSULTANT REVISIONS | | | | |
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PRIME CONSULTANT




AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
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SUB CONSULTANT

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| DESIGN BY: Designer | SCALE: |
| DRAWN BY: Author | DATE: 06/15/21 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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THE REGIONAL MUNICIPALITY
OF DURHAM

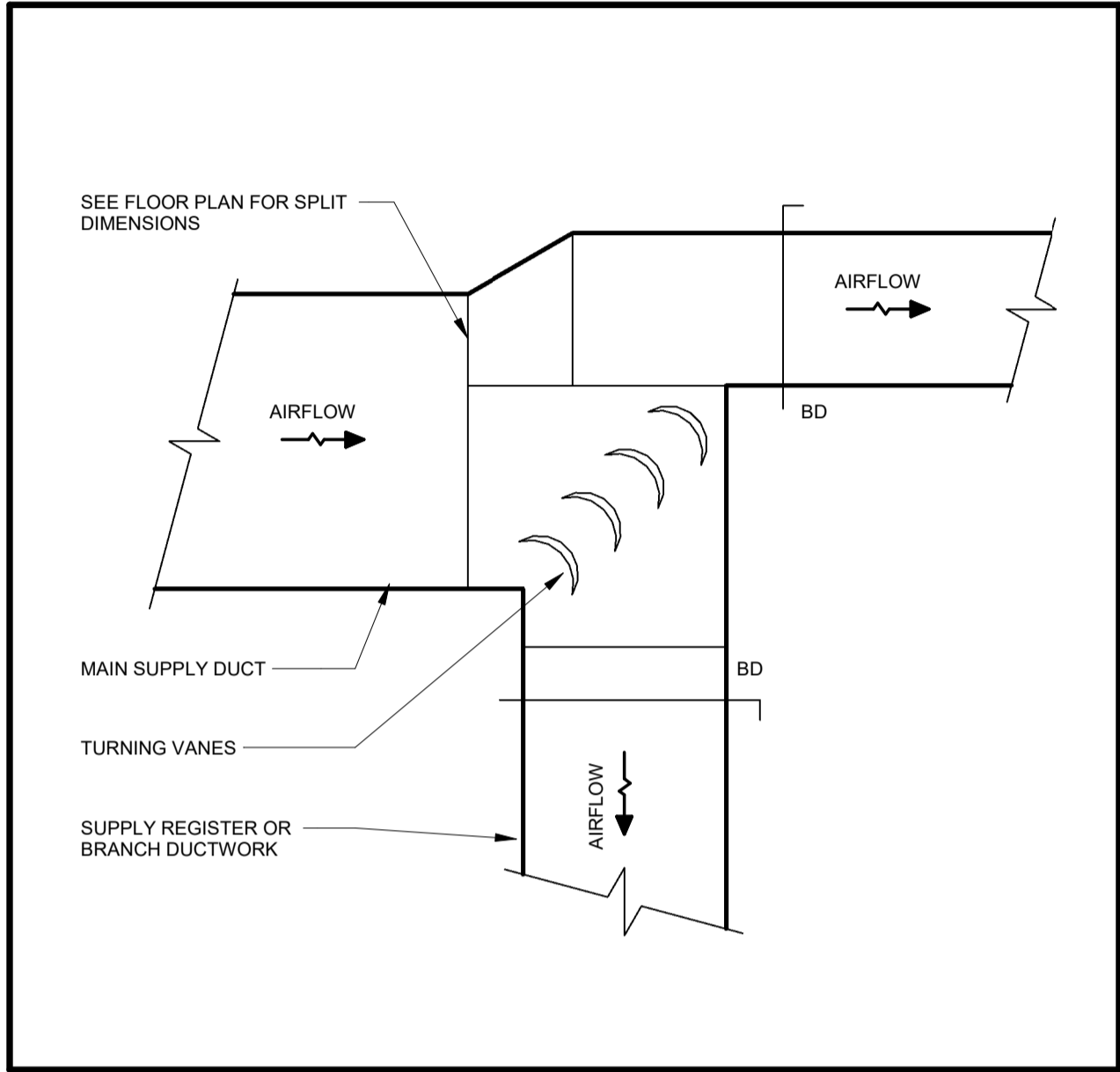
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL SCHEDULES

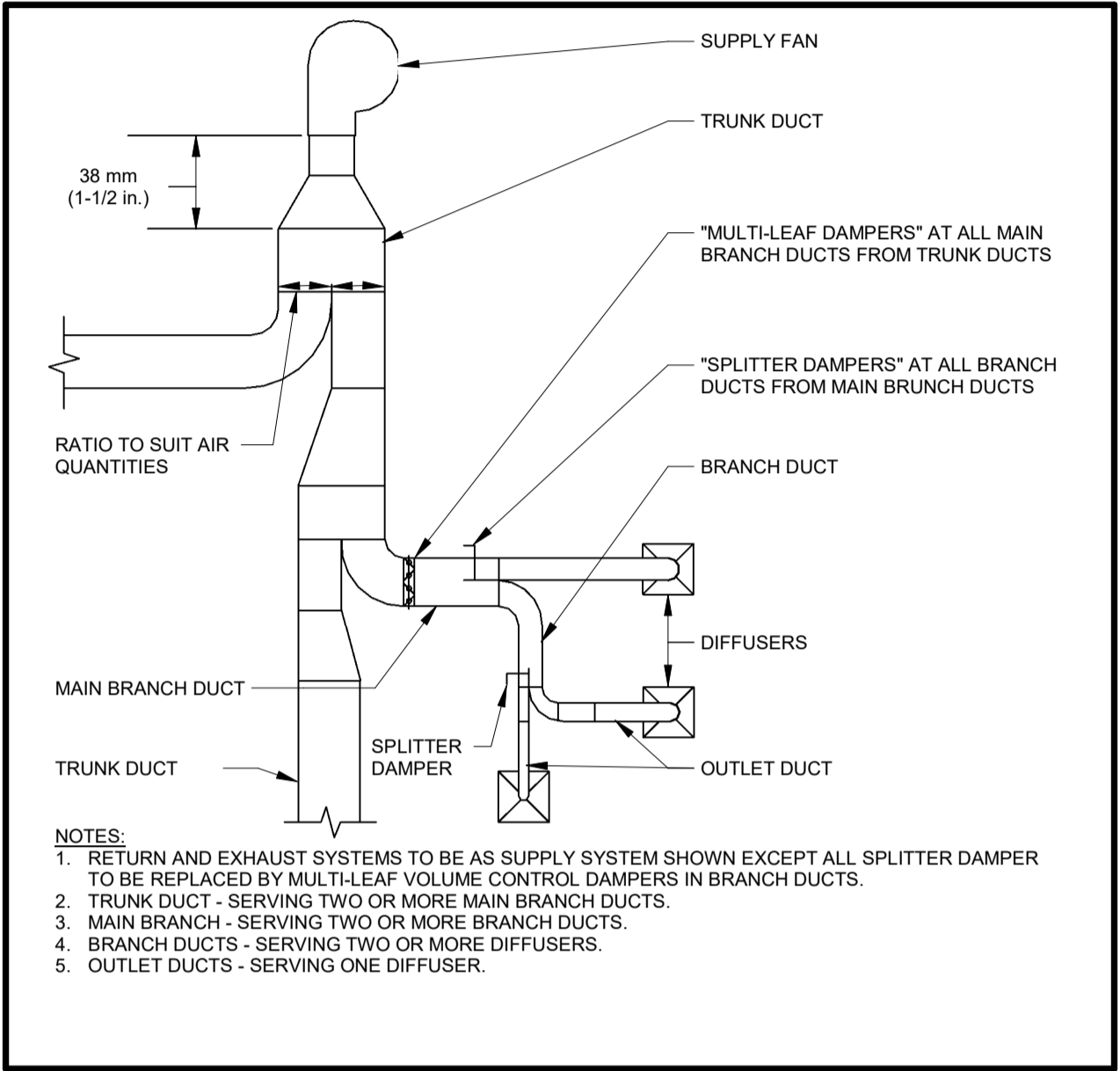
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-704 | SHEET NO. |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.

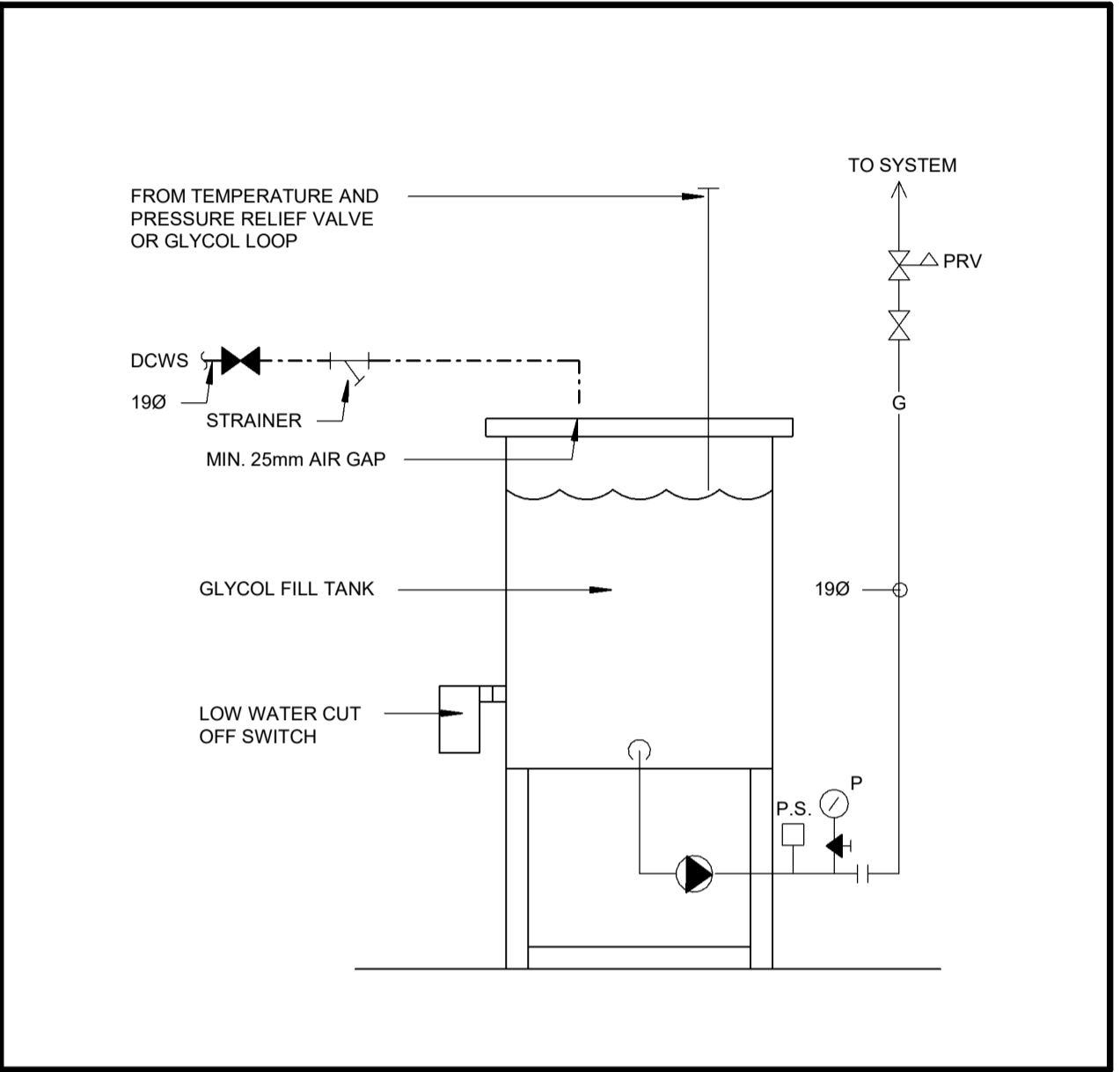
1890 Fifth Concession Rd



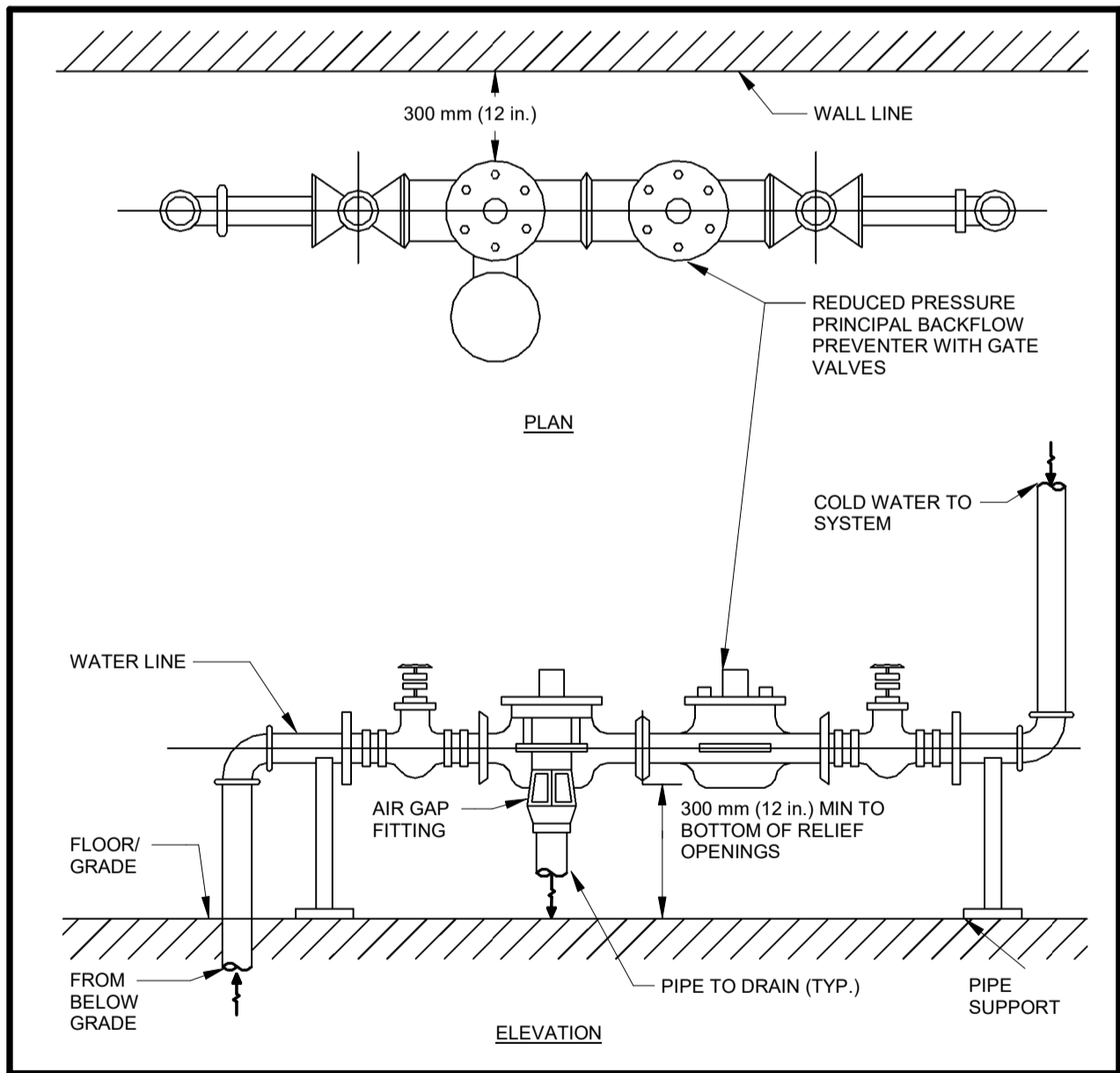
1 | AIR SPLIT DUCT TAKEOFF
Scale: NTS



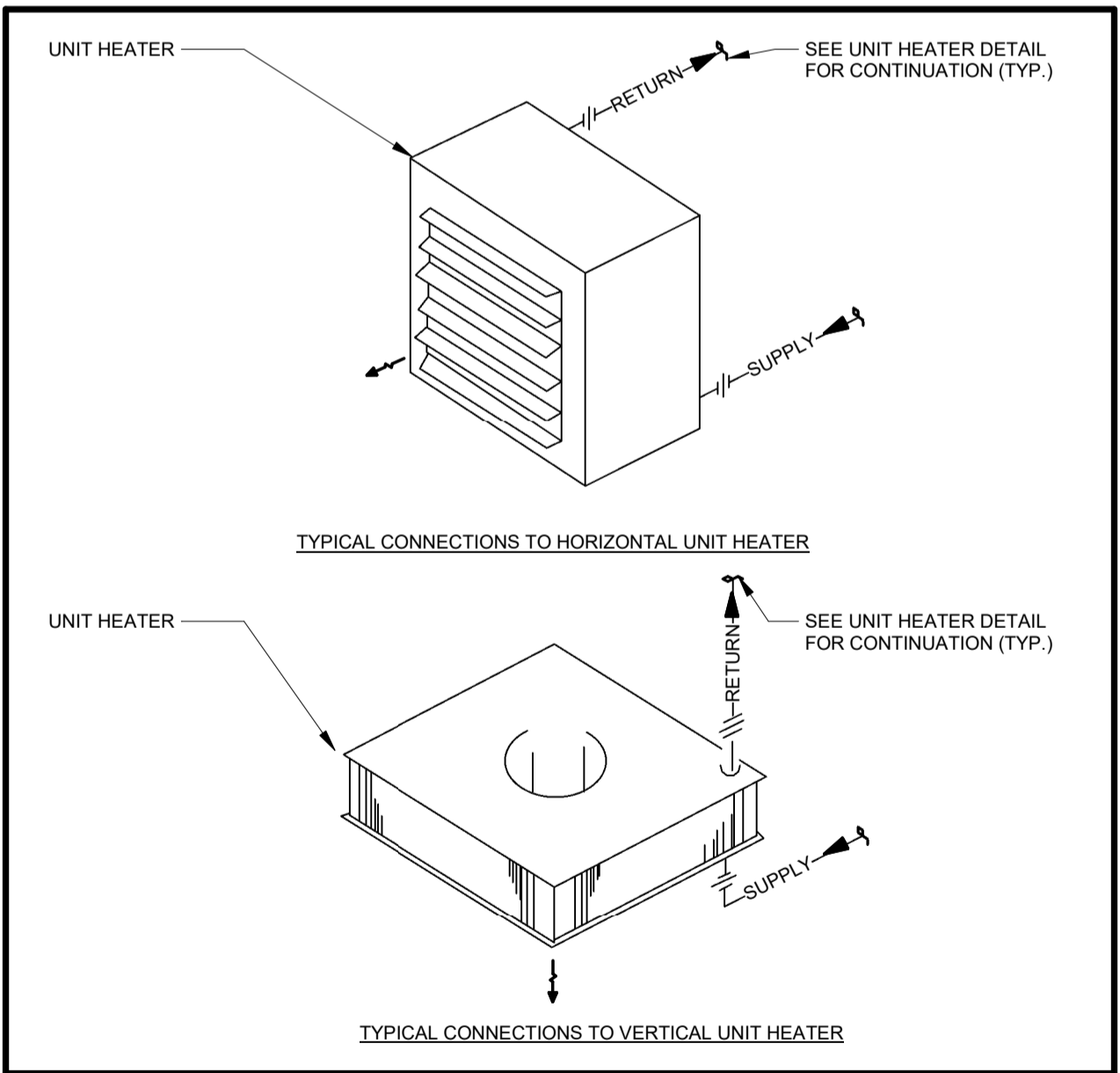
3 | BALANCING DAMPERS
Scale: NTS



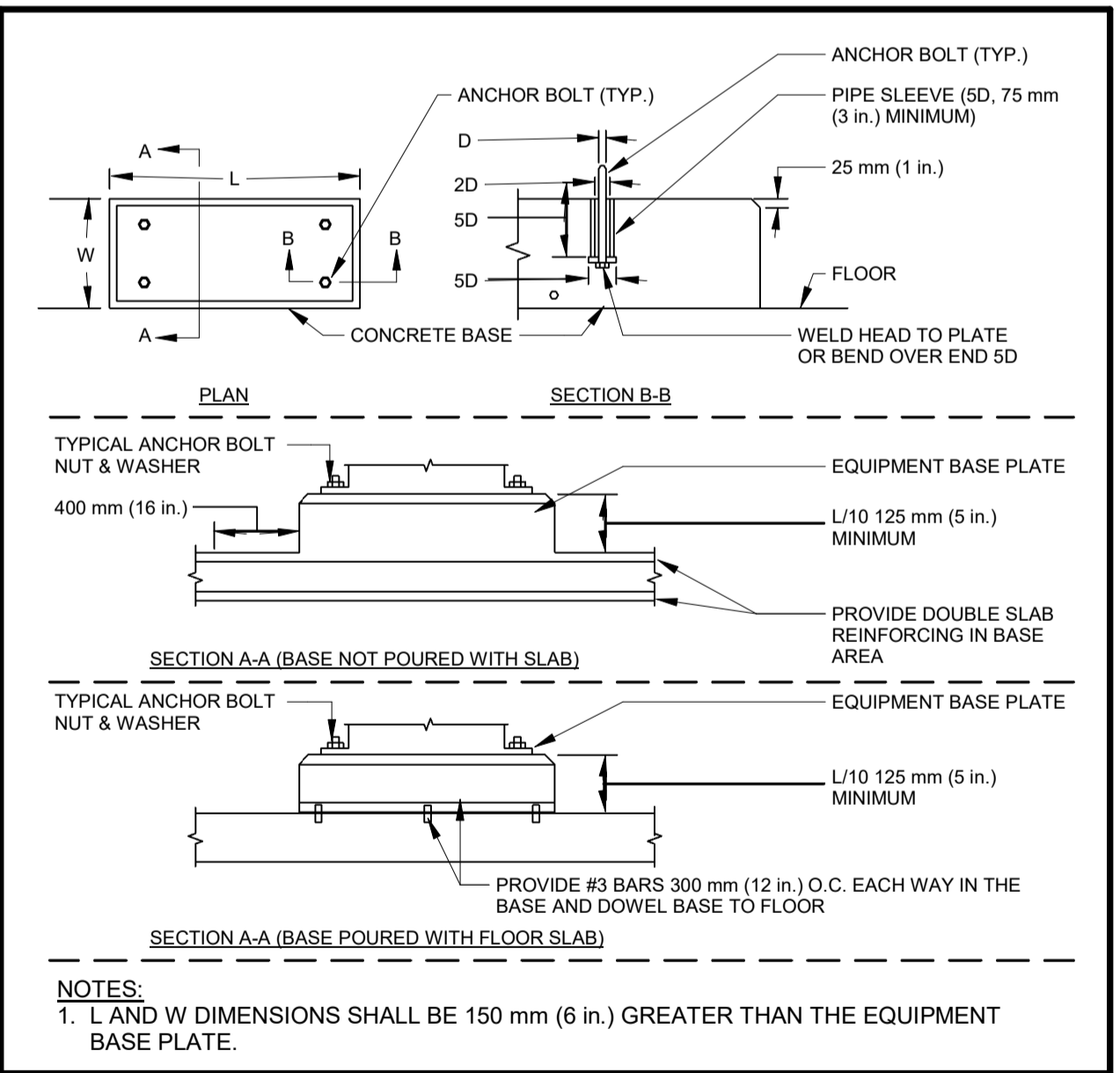
5 | SCHEMATIC - PACKAGED GLYCOL MAKEUP UNIT
Scale: NTS



2 | BACKFLOW PREVENTER PIPING DETAIL
Scale: NTS



4 | UNIT HEATER ORIENTATION
Scale: NTS



6 | CONCRETE EQUIPMENT BASES
Scale: NTS

| CONSULTANT REVISIONS | | | |
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| NO. | DATE | NAME | REVISIONS |
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PRIME CONSULTANT

AECOM
AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT

| | |
|-----------------------|---------------------------------|
| DESIGN BY: Designer | SCALE: As indicated |
| DRAWN BY: Author | DATE: 10/27/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
|--------------------|----------|------|---------------------------|
| NO | DATE | NAME | REVISIONS |
| 2 | 03/14/22 | | ISSUED FOR CONSTRUCTION |
| 1 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 0 | 09/22/21 | | ISSUED FOR TENDER |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL STANDARD DETAILS

| | | |
|-----------------------------|----------------------|--------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-800 | SHEET NO. |

BM 300/JBP-AMER (CAN) 60611569-Station RDFS-M.rvt

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1890 Fifth Concession Rd

| CONSULTANT REVISIONS | | | |
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PROFESSIONAL ENGINEER
MAR 14, 2021
R.G. CARKNER
100162393
6061569
PROVINCE OF ONTARIO

| | |
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| SUB CONSULTANT | |
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|-----------------------|---------------------------------|
| DESIGN BY: Designer | SCALE: As indicated |
| DRAWN BY: Author | DATE: 10/28/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

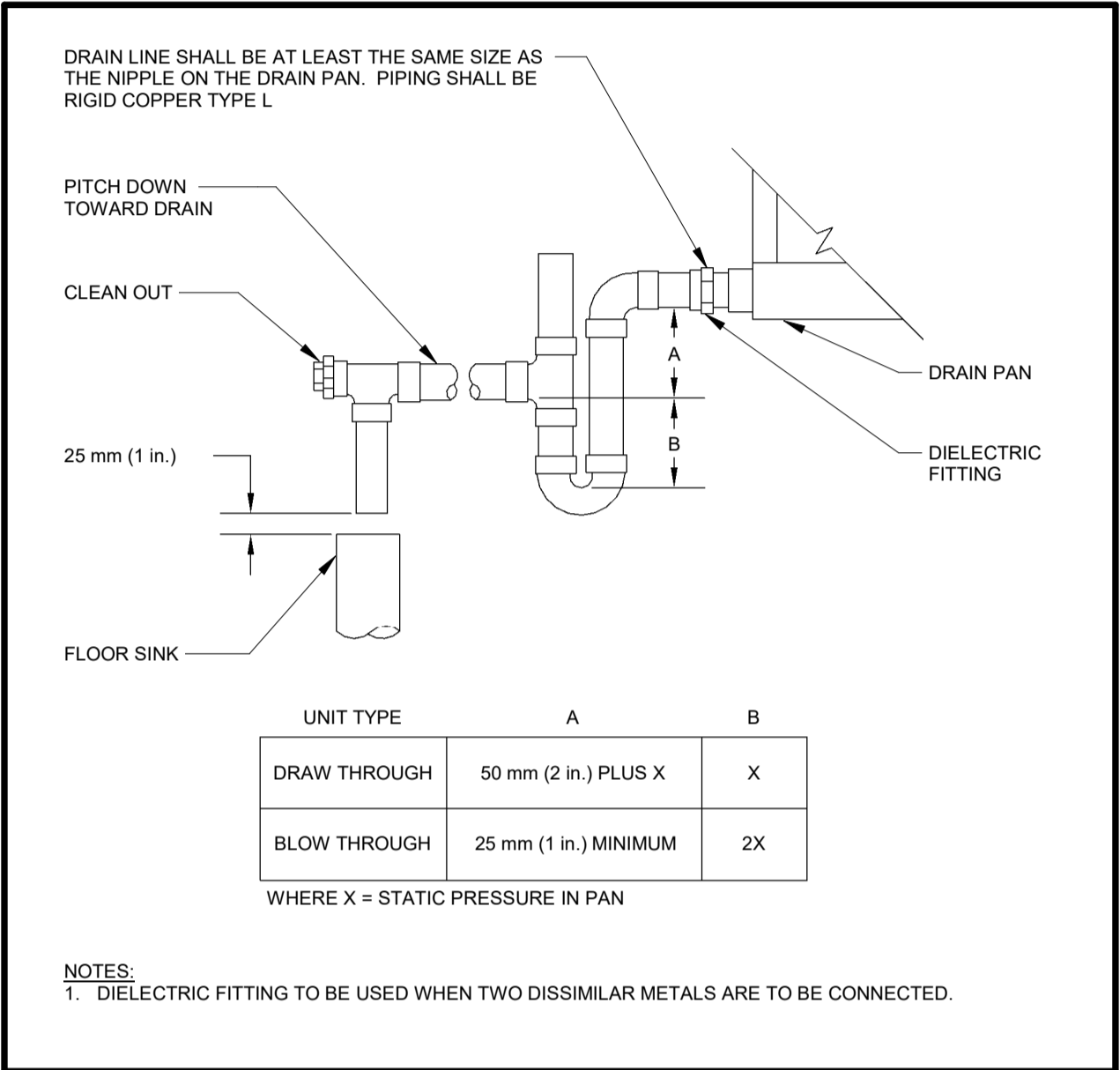
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| 2 | 03/14/22 | ISSUED FOR CONSTRUCTION | |
| 1 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| 0 | 09/22/21 | ISSUED FOR TENDER | |
| NO | DATE | NAME | REVISIONS |



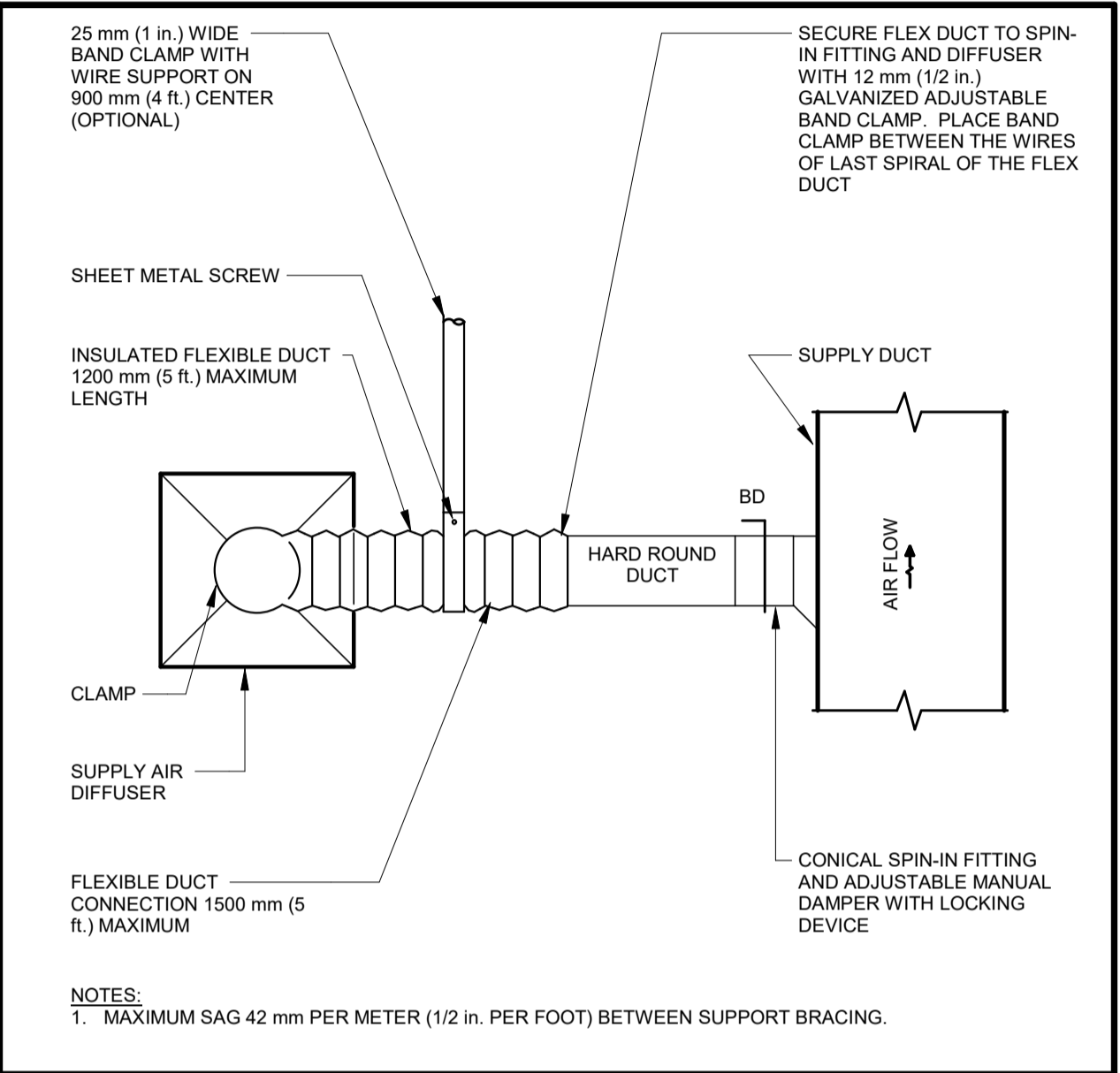
THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
MECHANICAL STANDARD DETAILS

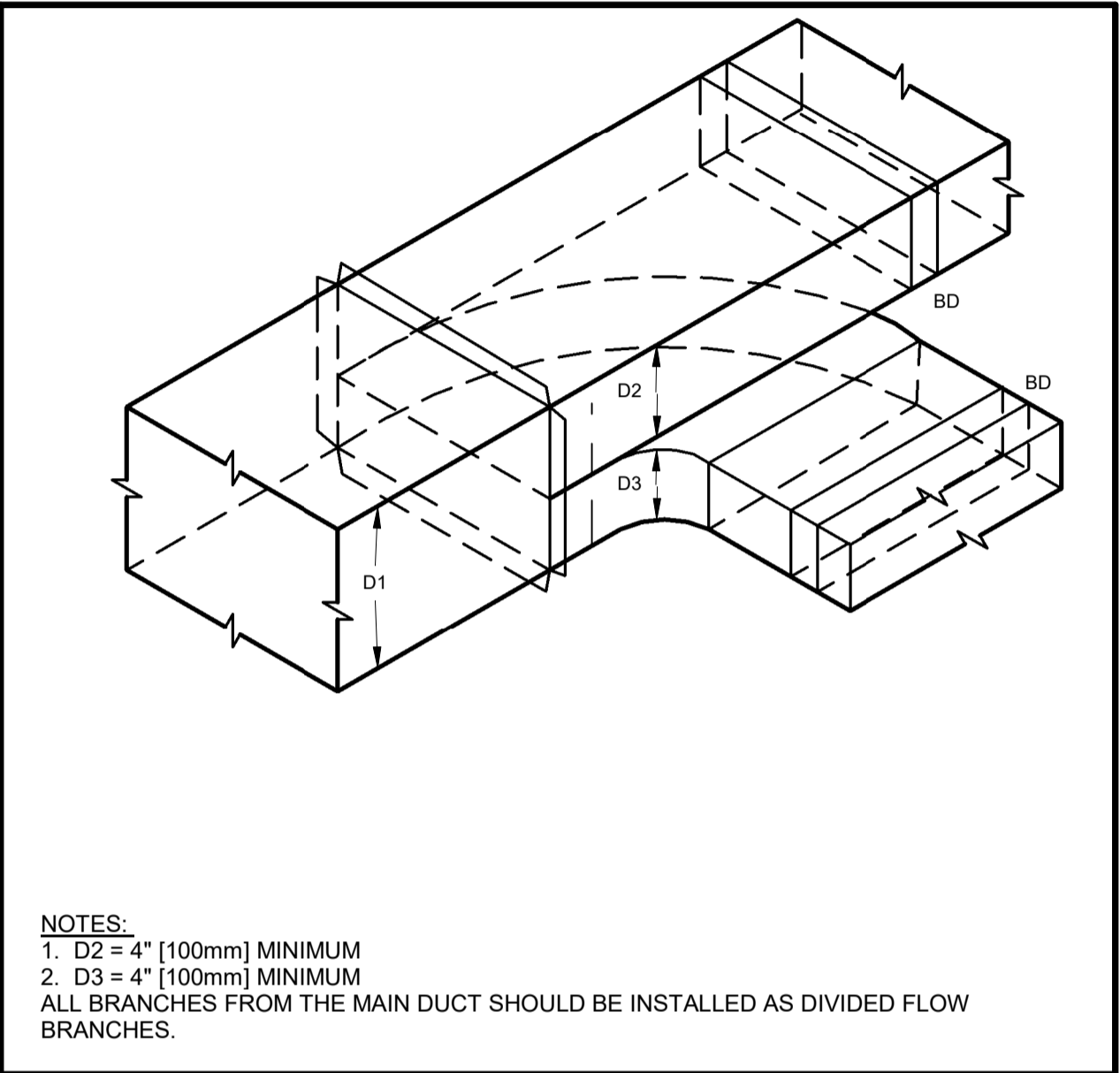
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-801 | SHEET NO. |



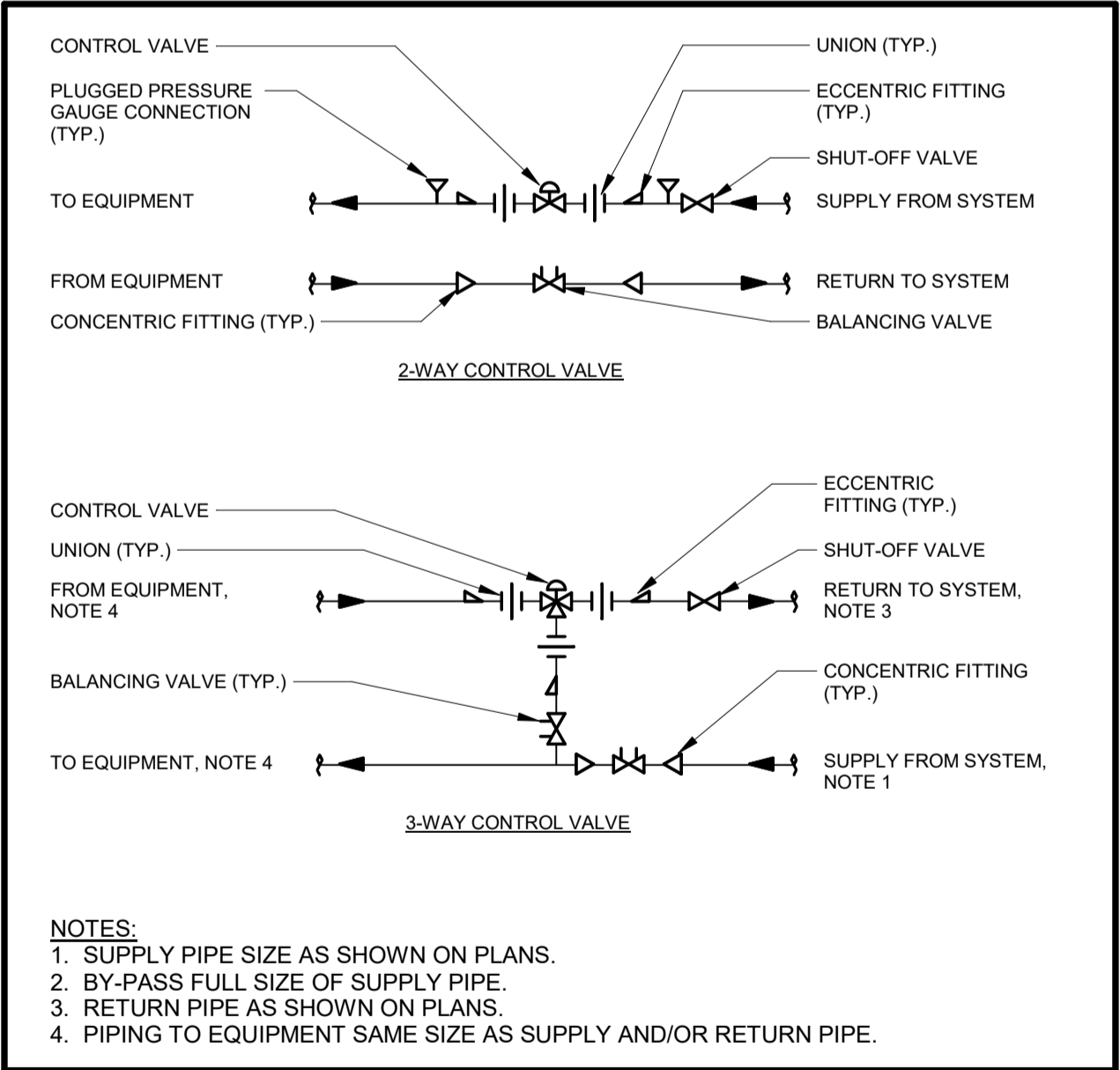
1 CONDENSATE DRAIN TRAP Scale: NTS



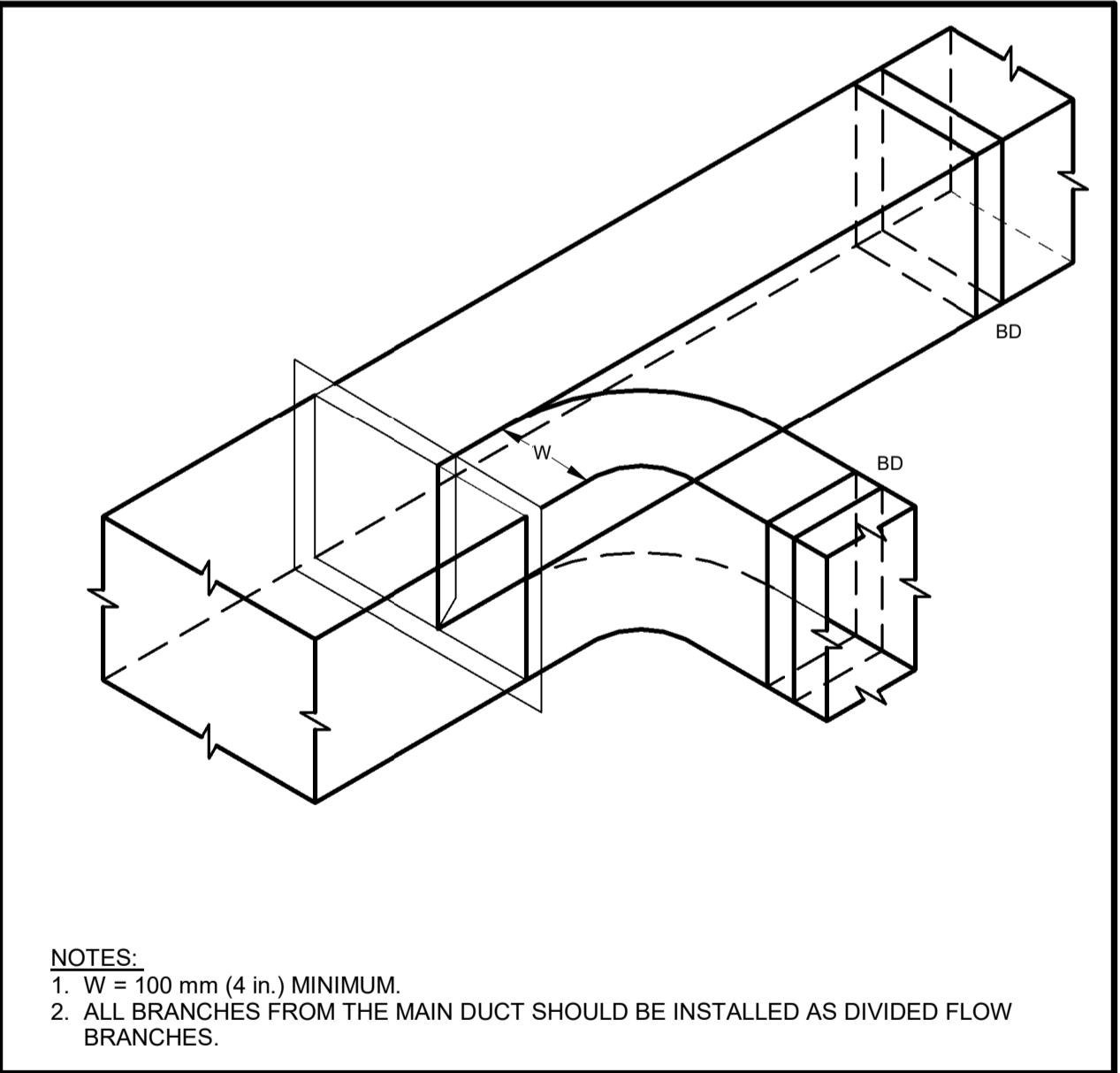
3 DIFFUSER CONNECTION DETAIL Scale: NTS



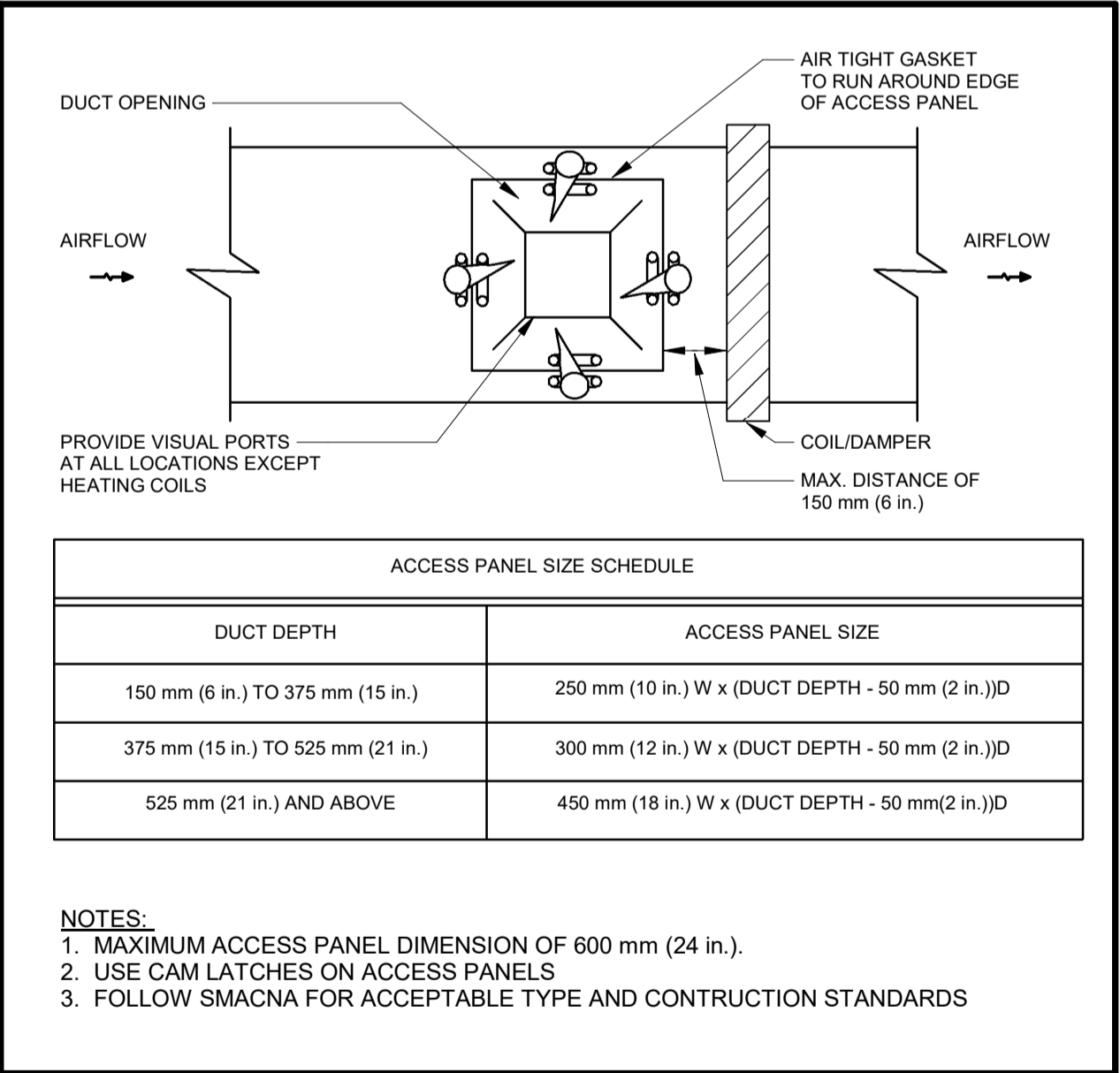
5 DIVIDED FLOW BRANCH TYPE 2 Scale: NTS



2 CONTROL VALVE PIPING ARRANGMENTS Scale: NTS



4 DIVIDED FLOW BRANCH TYPE 1 Scale: NTS

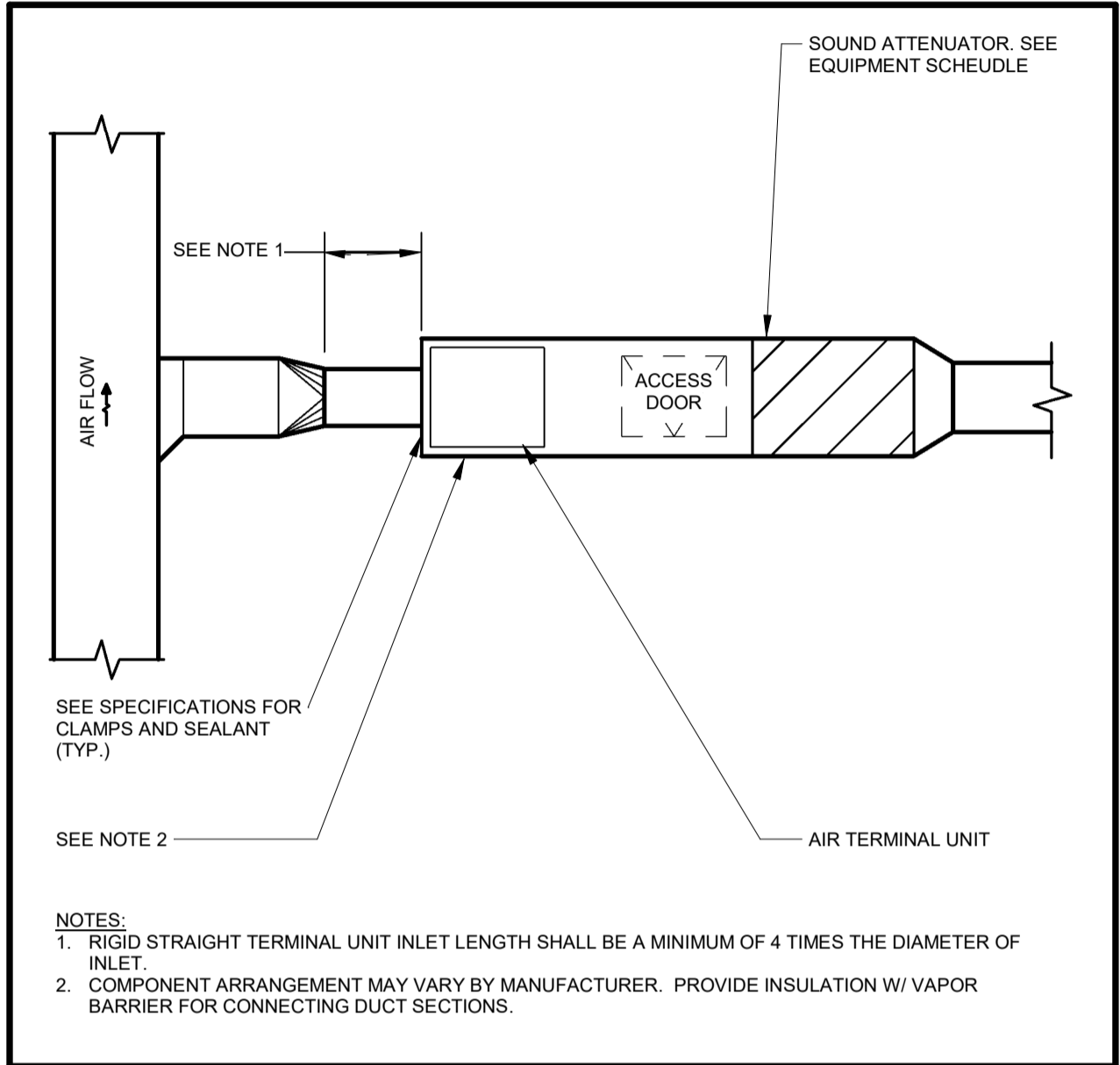


6 DUCT ACCESS PANEL SIZING Scale: NTS

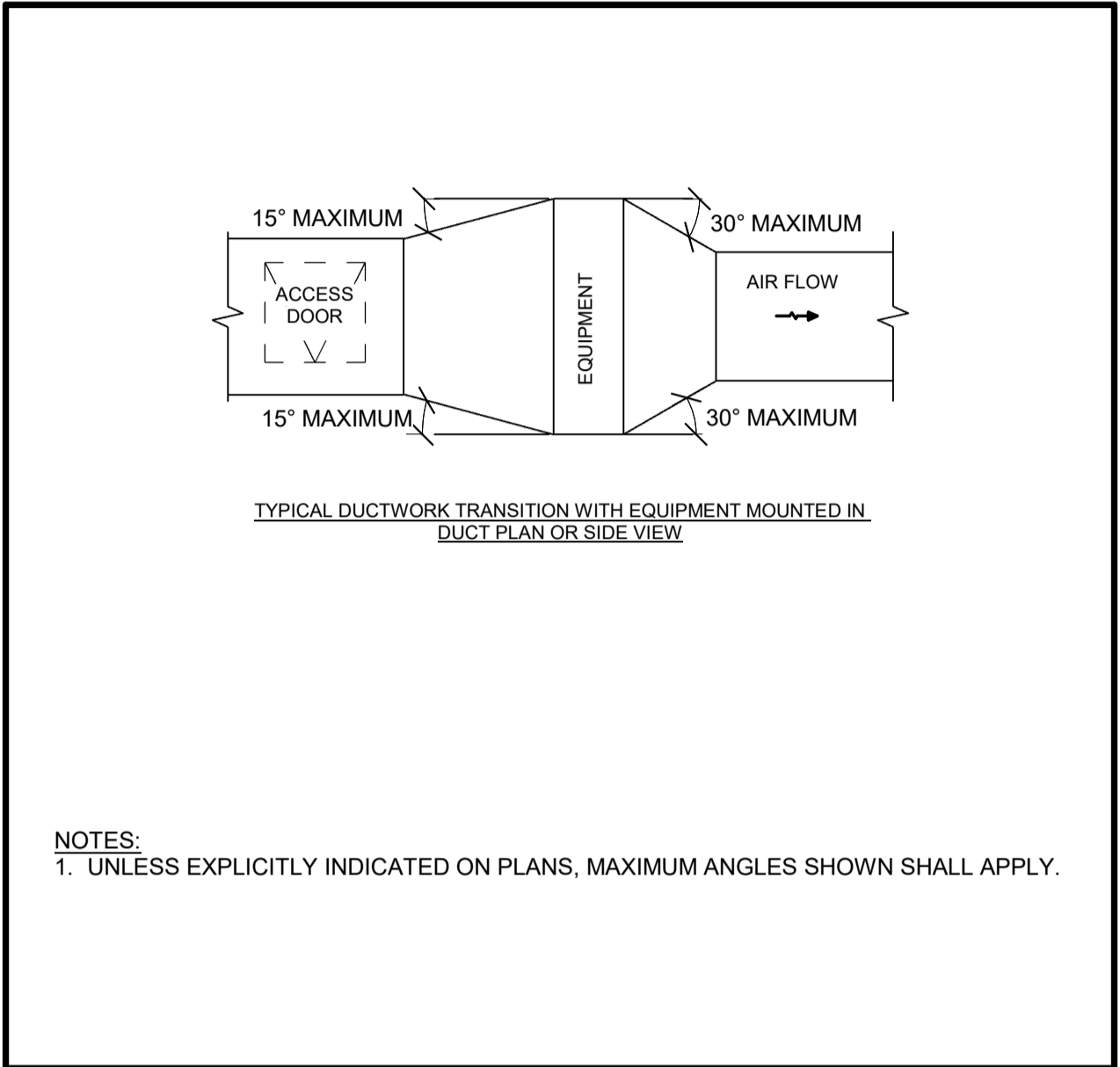
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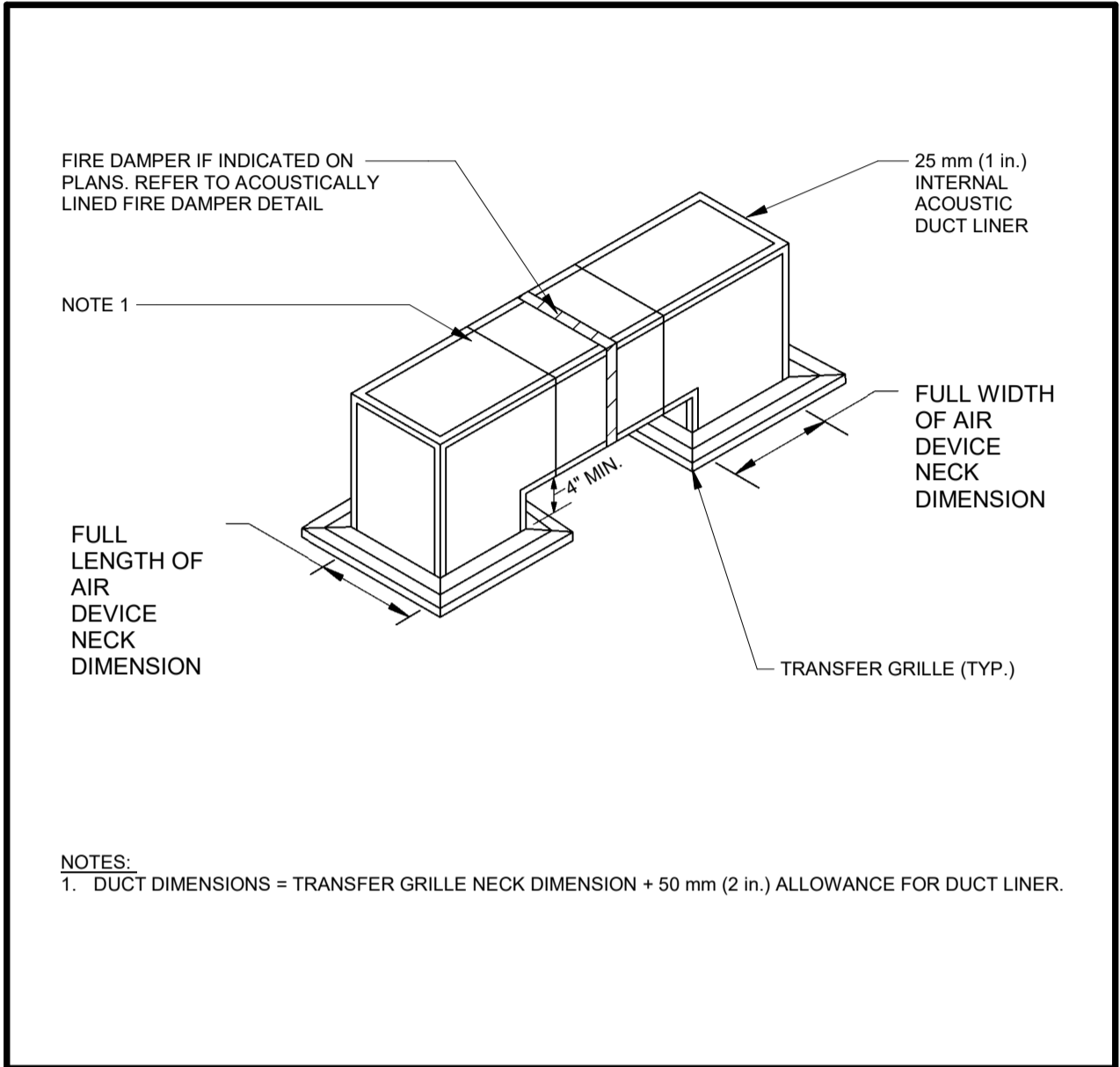
1890 Fifth Concession Rd



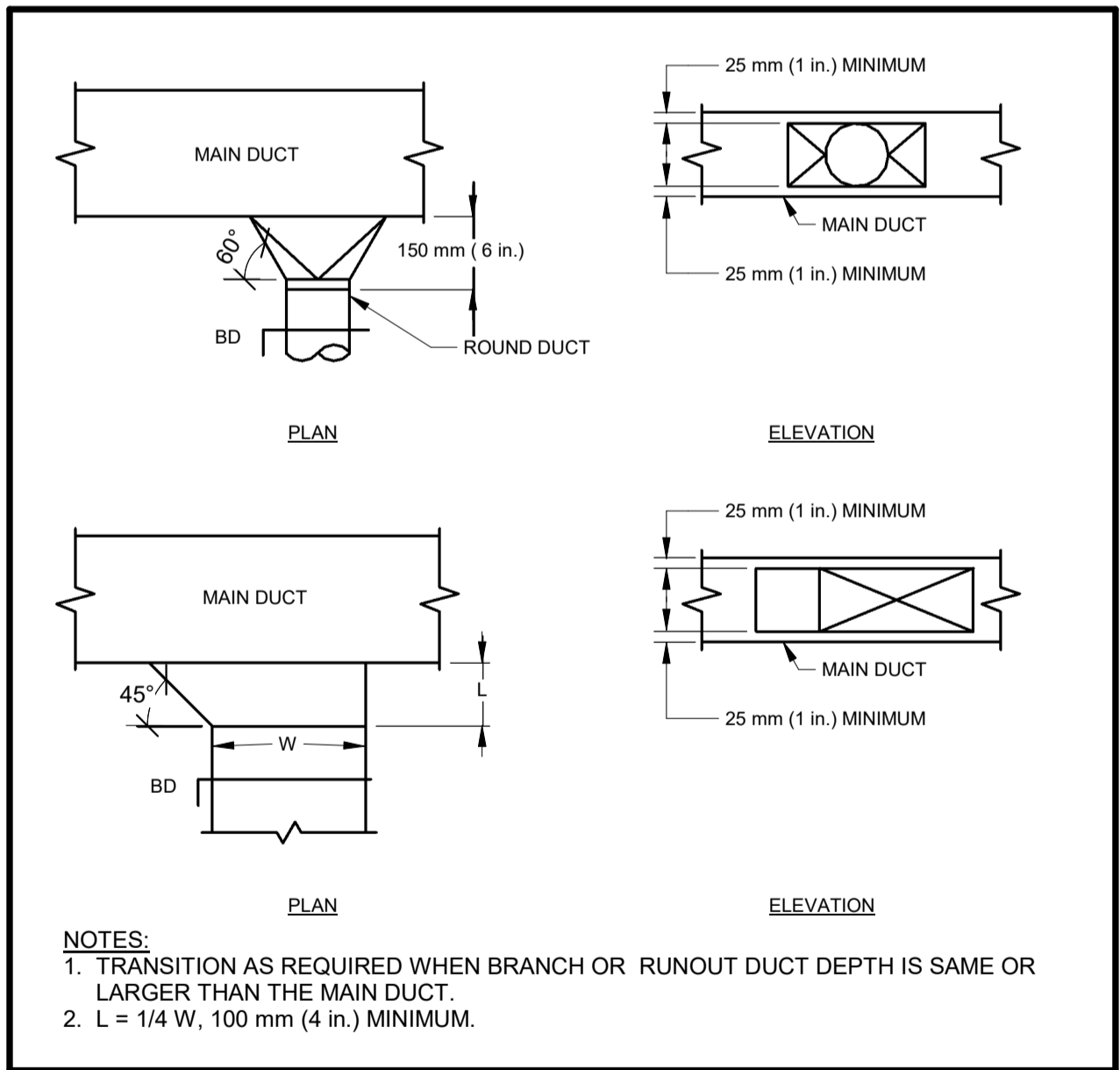
1 DUCT CONNECTION - AIR TERMINAL UNITS
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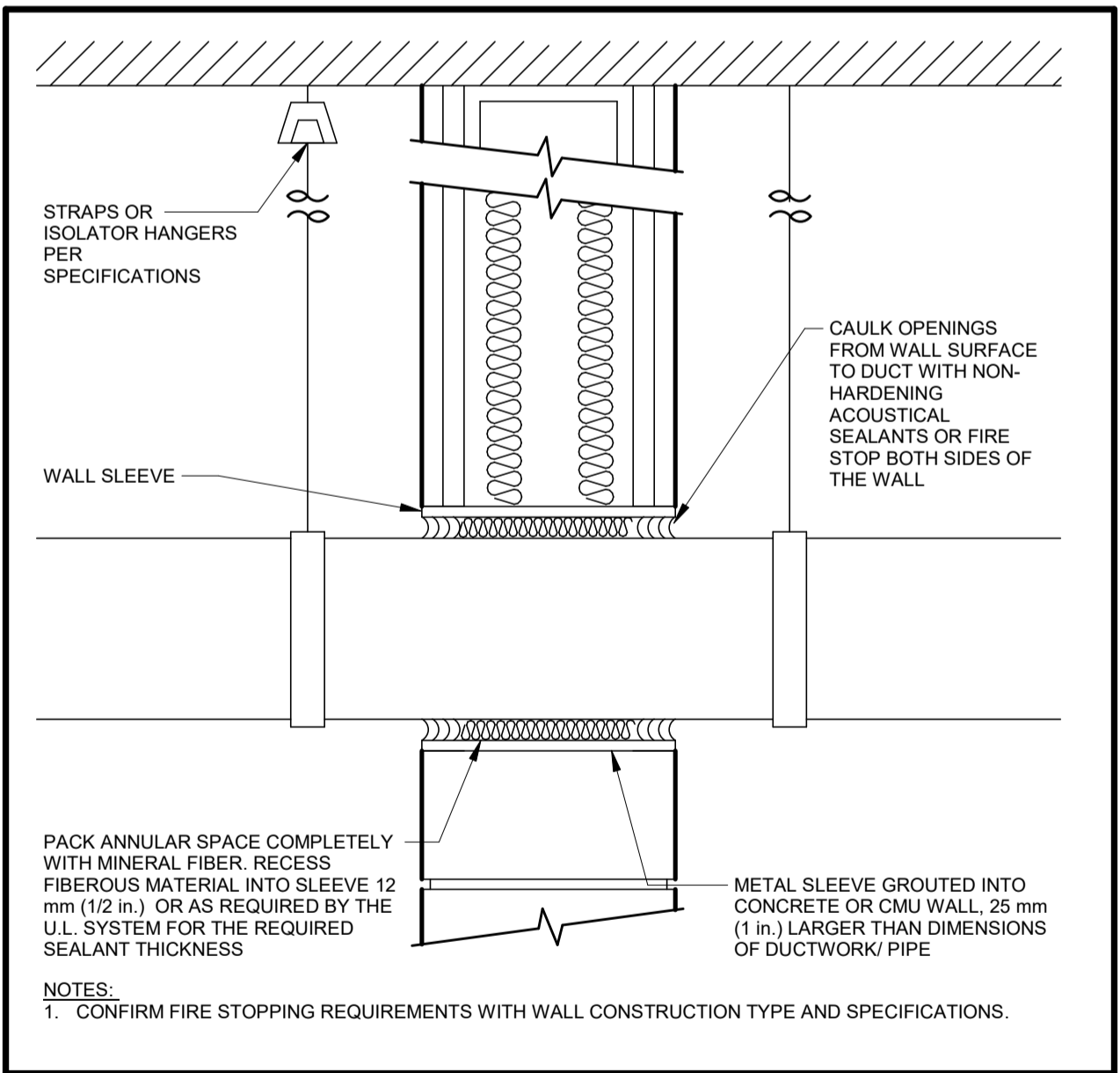
3 DUCT TRANSITION - EQUIPMENT IN DUCT
Scale: NTS



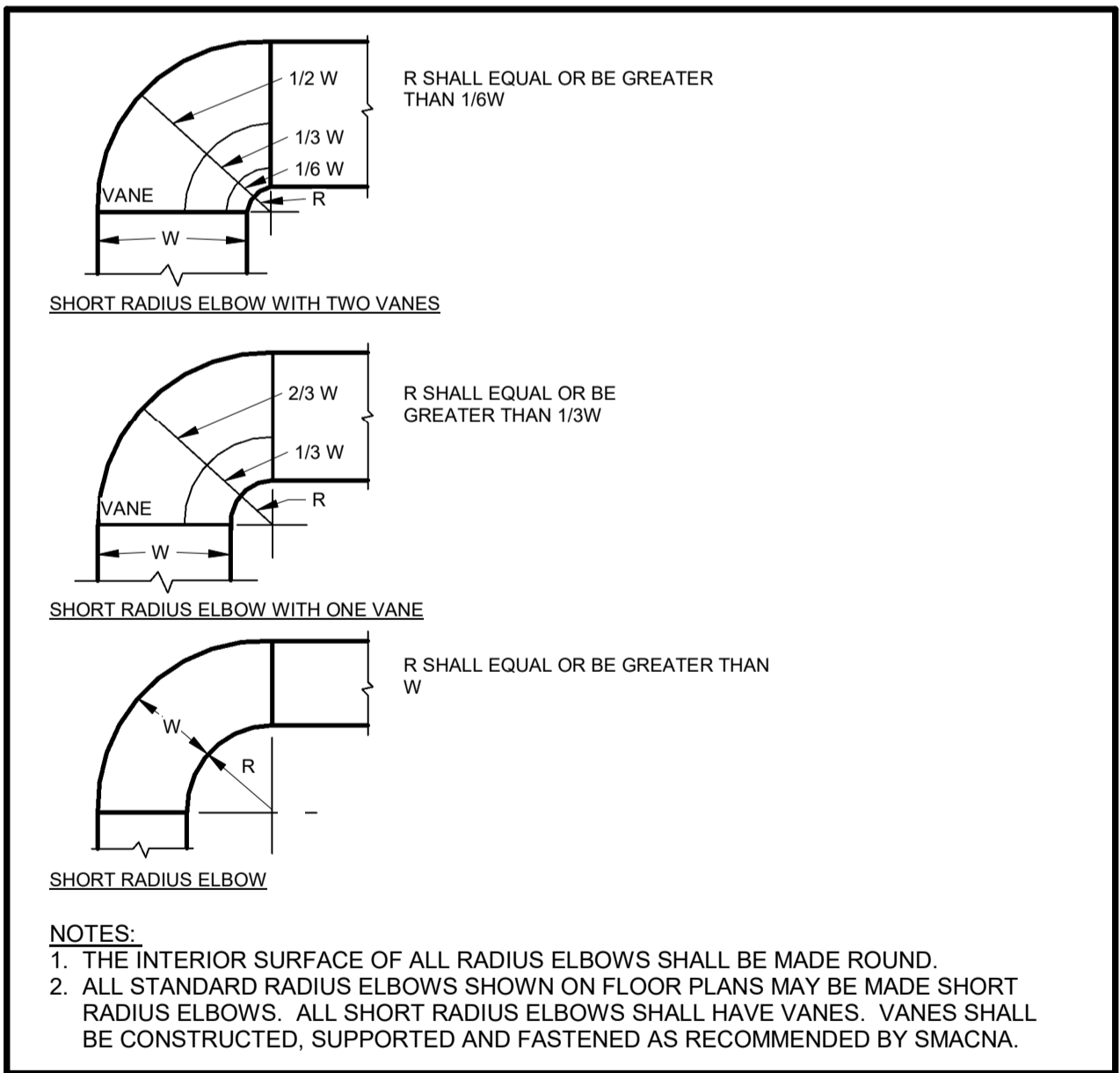
5 DUCTED RETURN AIR TRANSFER DUCT
Scale: NTS



2 DUCT TAKE-OFF
Scale: NTS



4 DUCT/PIPE WALL PENETRATION
Scale: NTS



6 DUCTWORK RADIUS ELBOW
Scale: NTS

| CONSULTANT REVISIONS | | | |
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LICENSED PROFESSIONAL ENGINEER
MAR 14, 2014
R.G. CARKNER
100162393
6061569
PROVINCE OF ONTARIO

| | |
|-----------------------|---------------------------------|
| DESIGN BY: Designer | SCALE: NTS |
| DRAWN BY: Author | DATE: 10/28/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
|--------------------|----------|---------------------------|-----------|
| NO | DATE | NAME | REVISIONS |
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| 1 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| 0 | 09/22/21 | ISSUED FOR TENDER | |

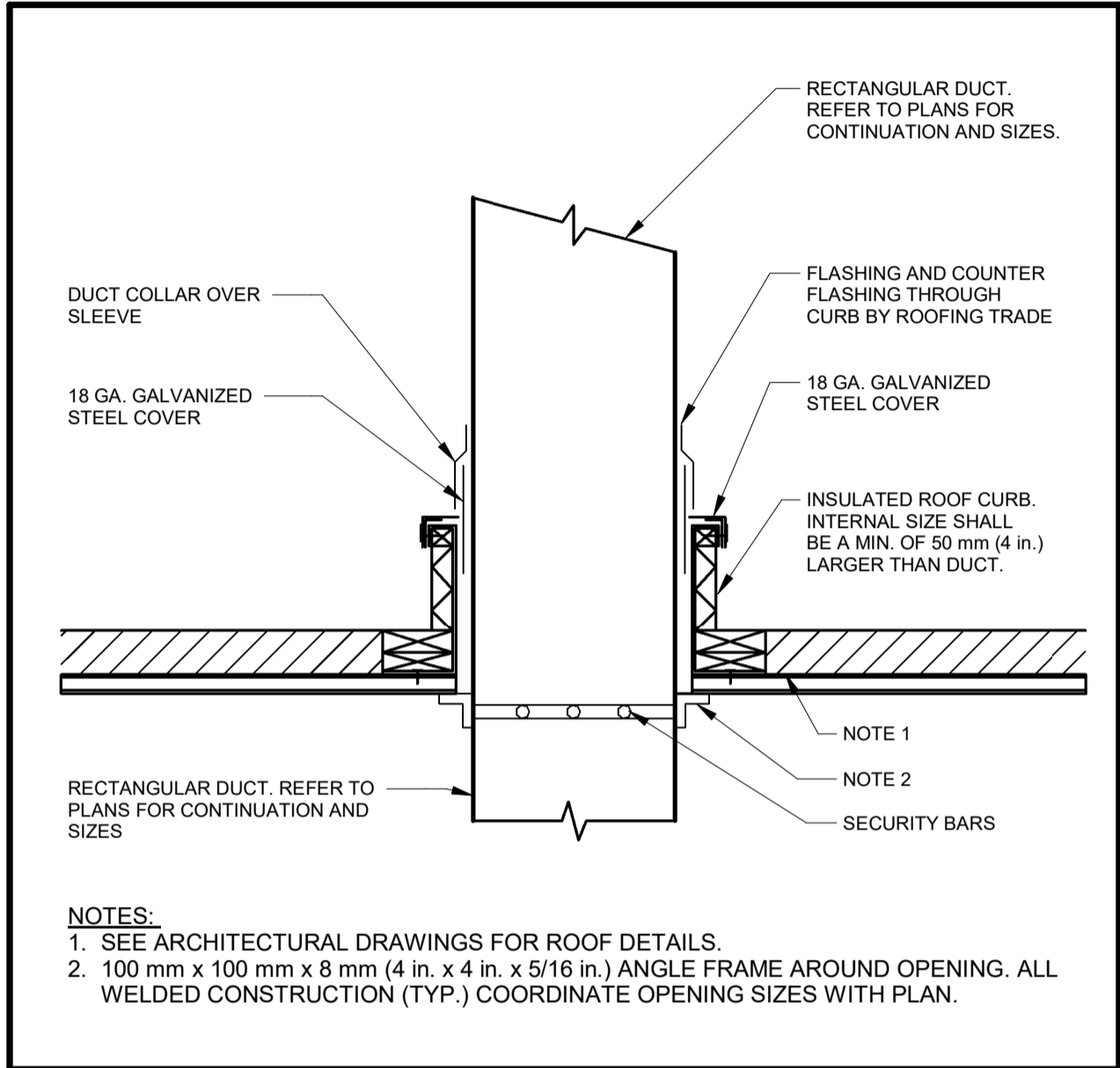
THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL STANDARD DETAILS

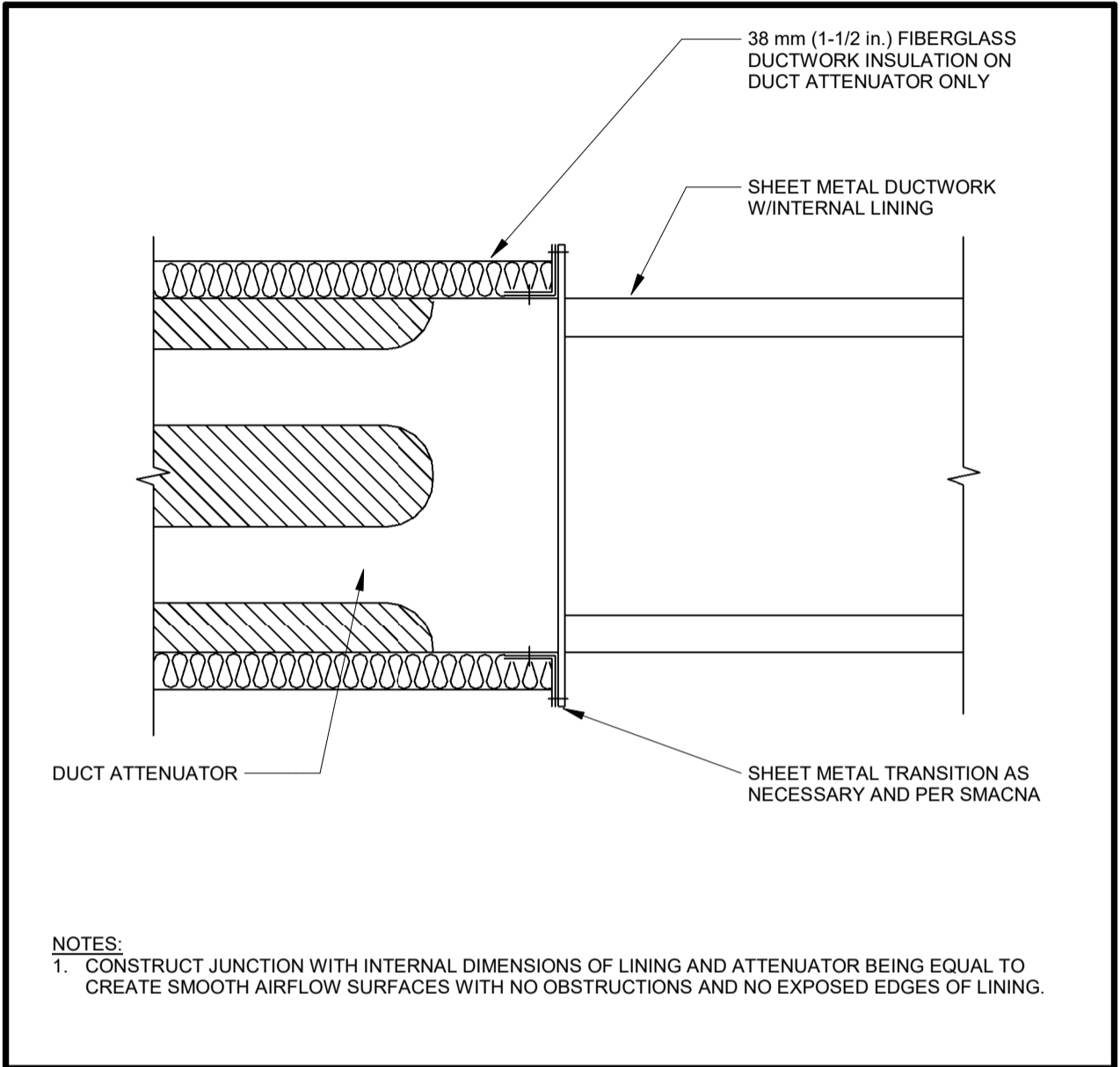
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-802 | SHEET NO. |

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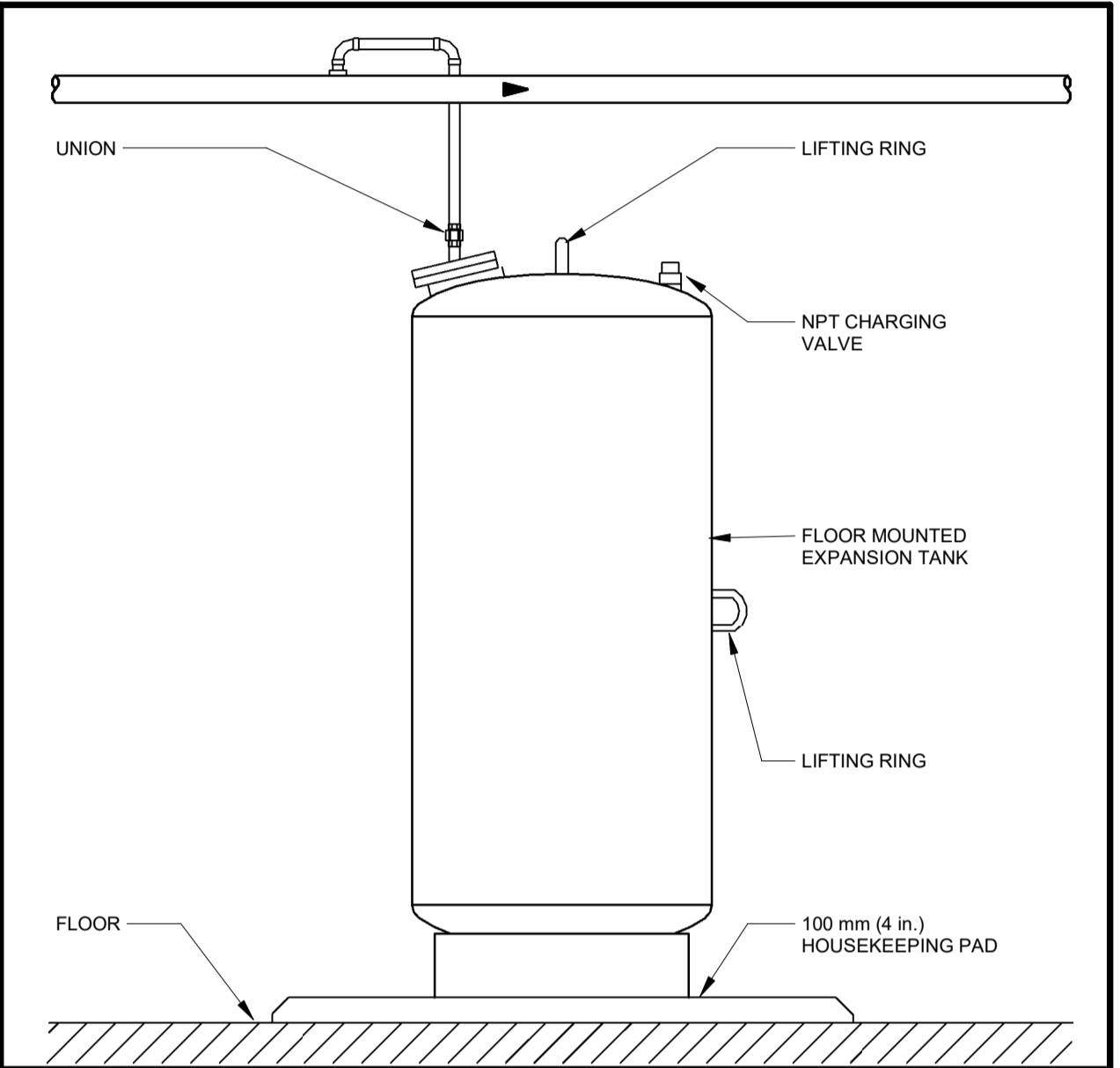
1890 Fifth Concession Rd



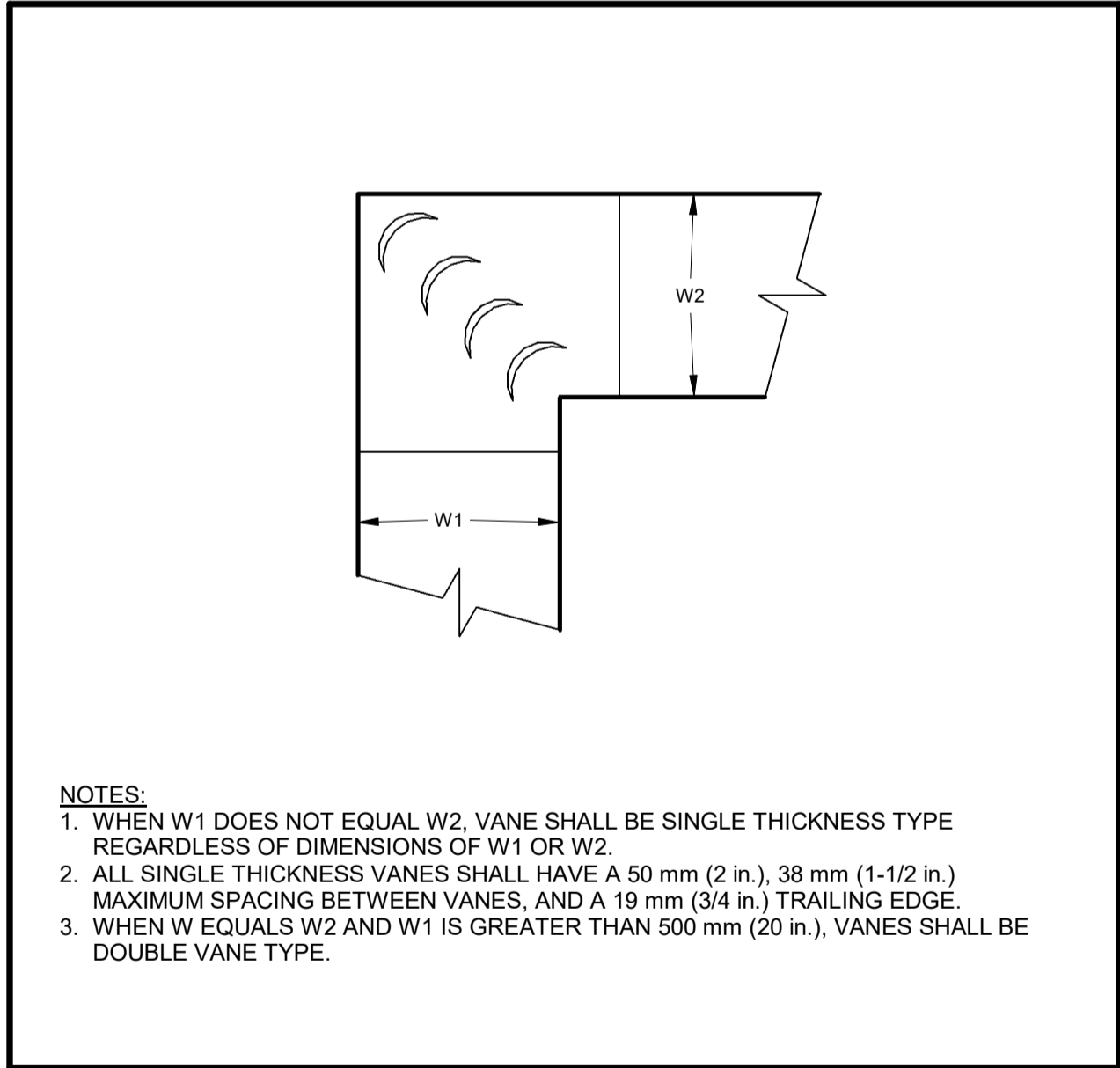
1 | DUCTWORK ROOF PENETRATION
Scale: NTS



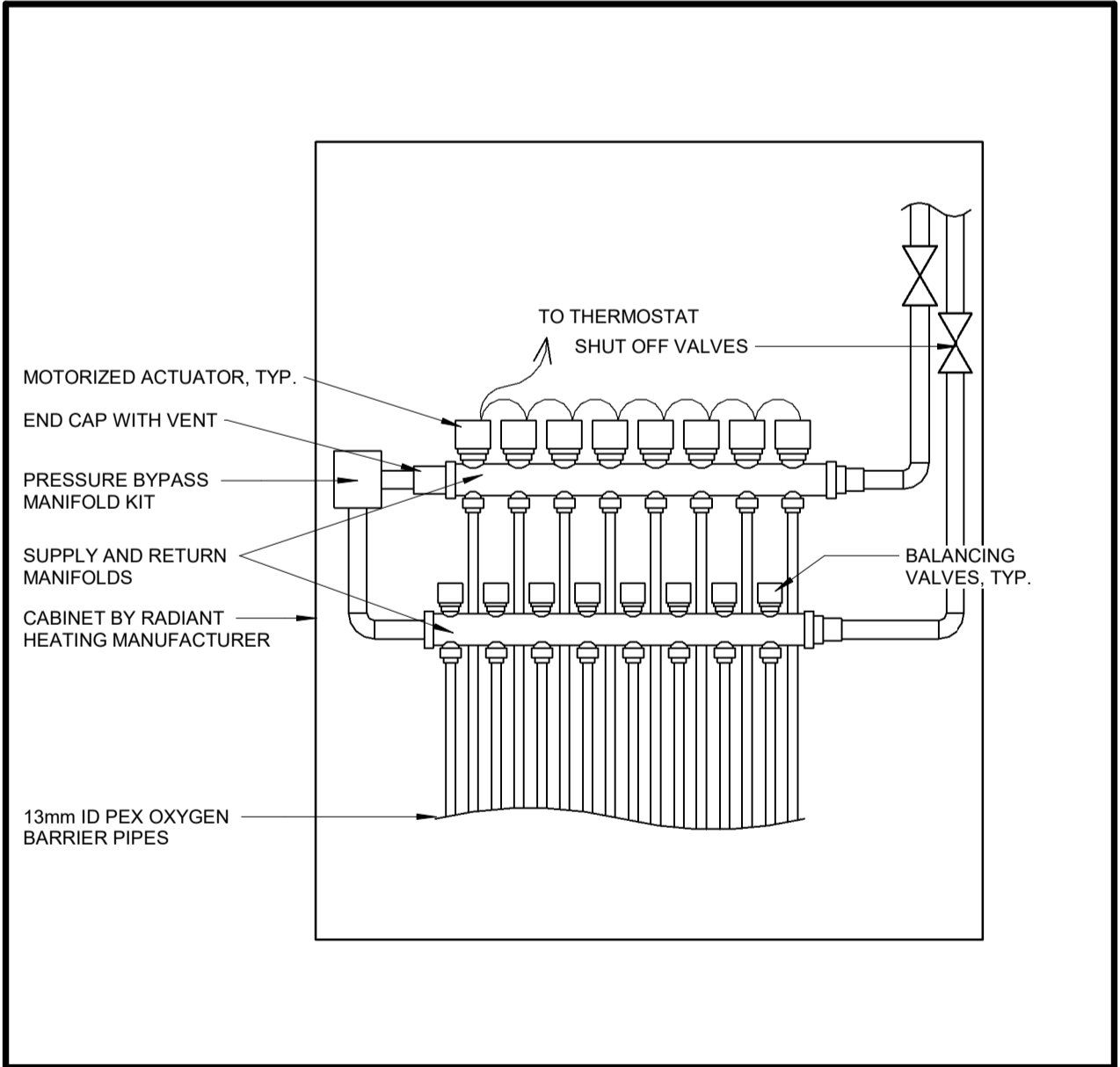
3 | DUCTWORK/ATTENUATOR CONNECTION DETAIL
Scale: NTS



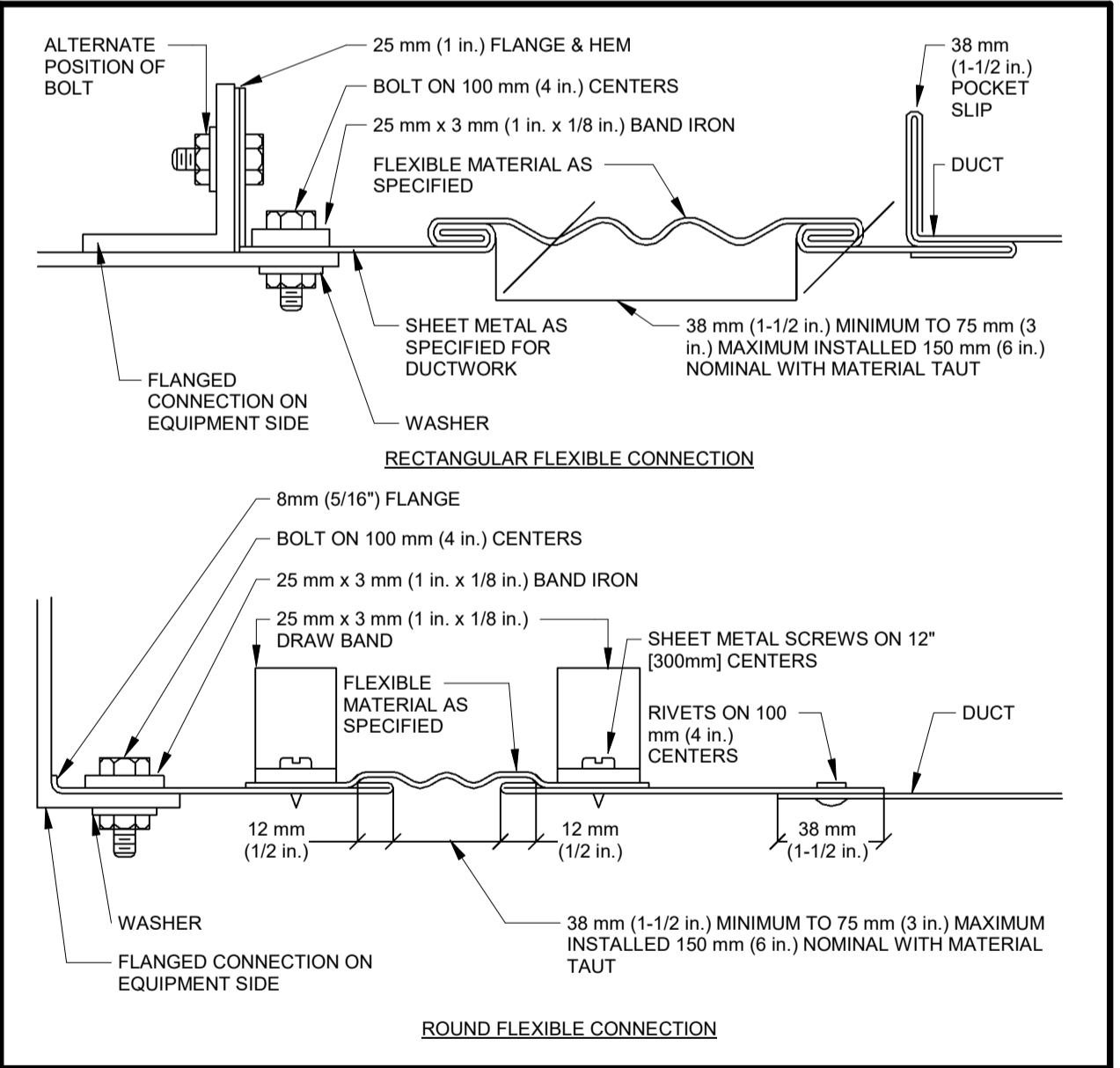
5 | EXPANSION TANK (FLOOR MOUNTED)
Scale: NTS



2 | DUCTWORK SQUARE VANE ELBOWS
Scale: NTS



4 | DETAIL - IN-FLOOR HEATING MANIFOLD
Scale: 1 : 5



6 | FLEXIBLE DUCT CONNECTIONS
Scale: NTS

| CONSULTANT REVISIONS | | | |
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www.aecom.com

SUB CONSULTANT

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| DESIGN BY: Designer | SCALE: As indicated |
| DRAWN BY: Author | DATE: 10/28/20 |
| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

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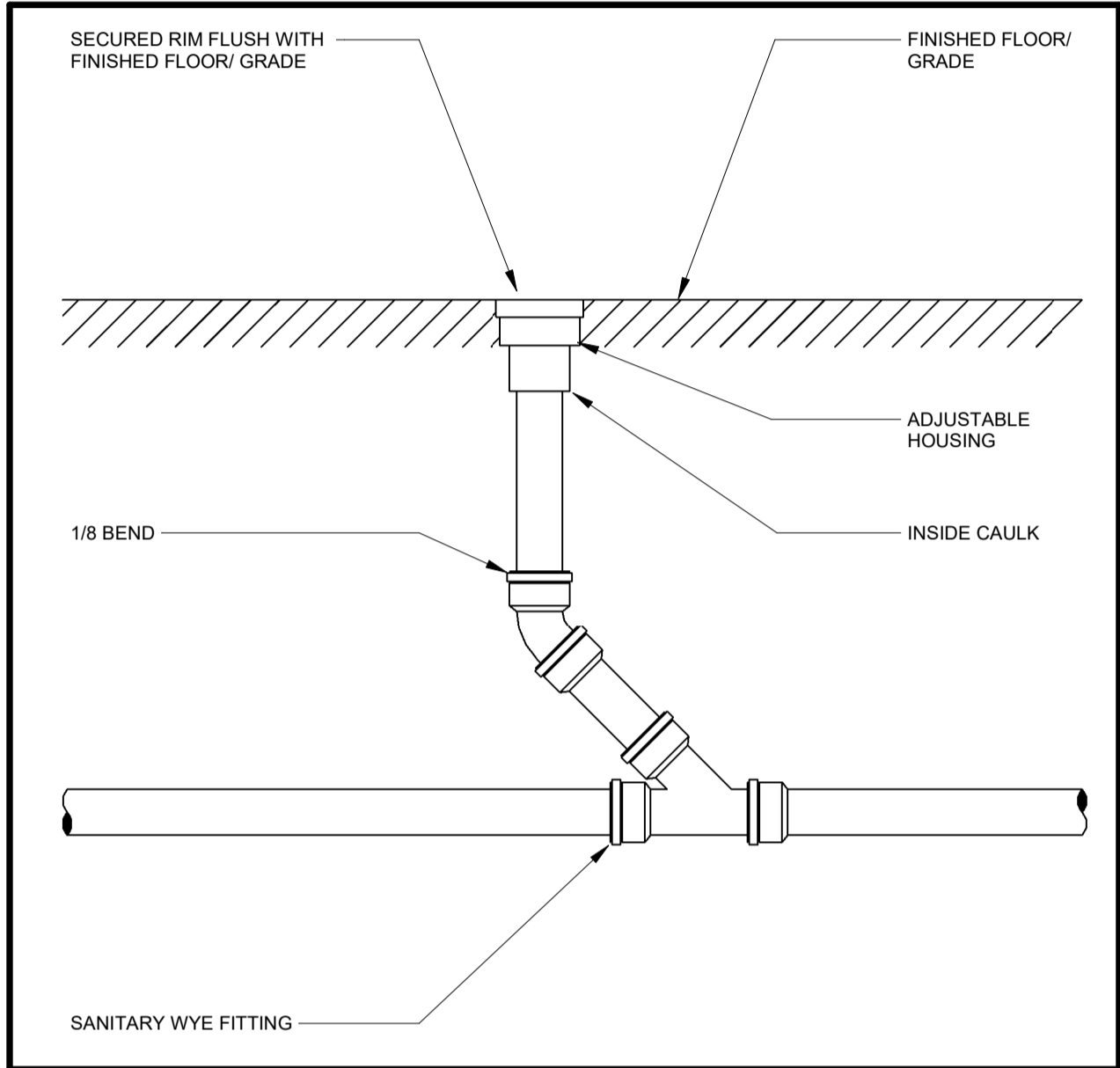
THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL STANDARD DETAILS

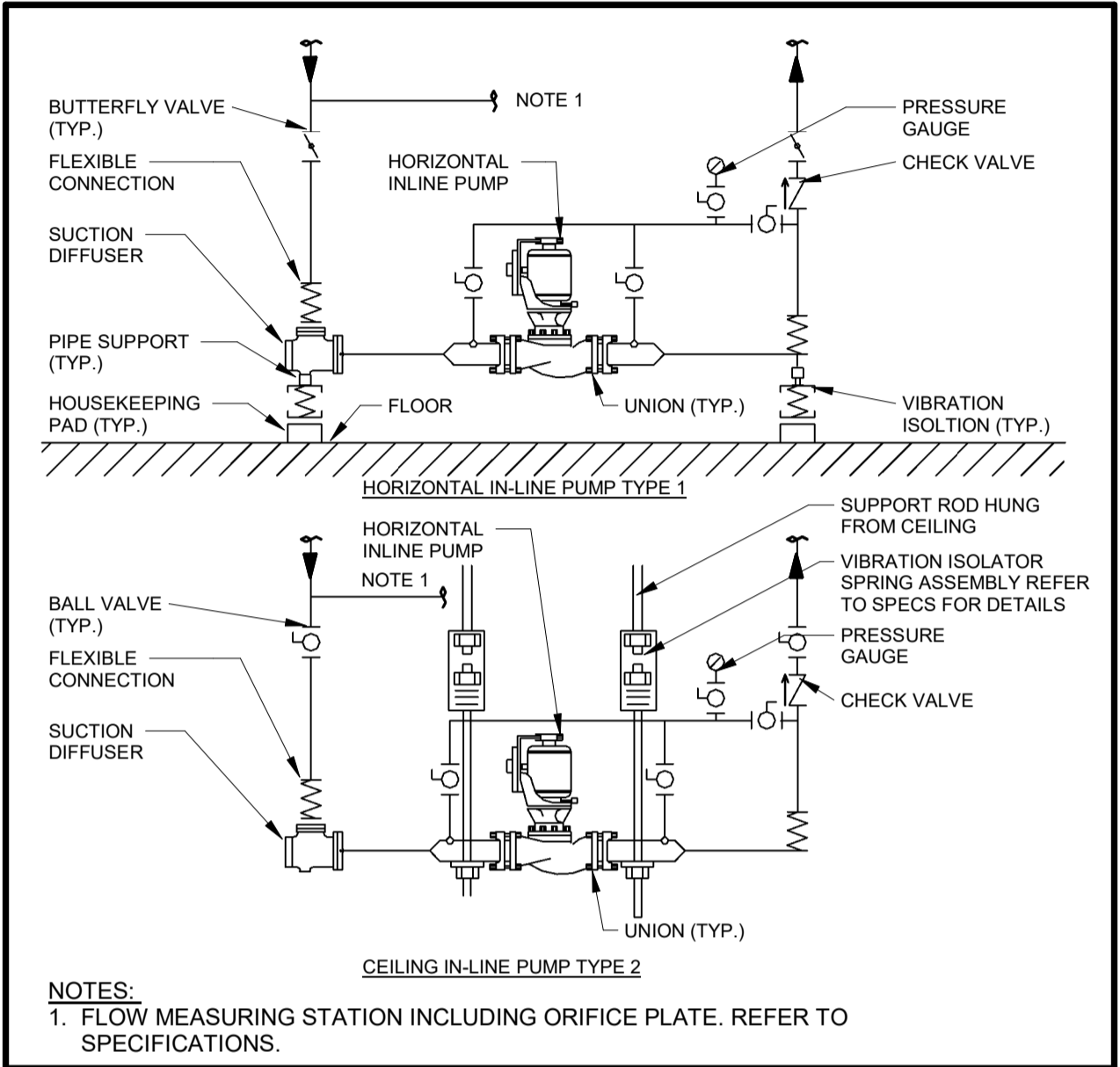
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-803 | SHEET NO. |

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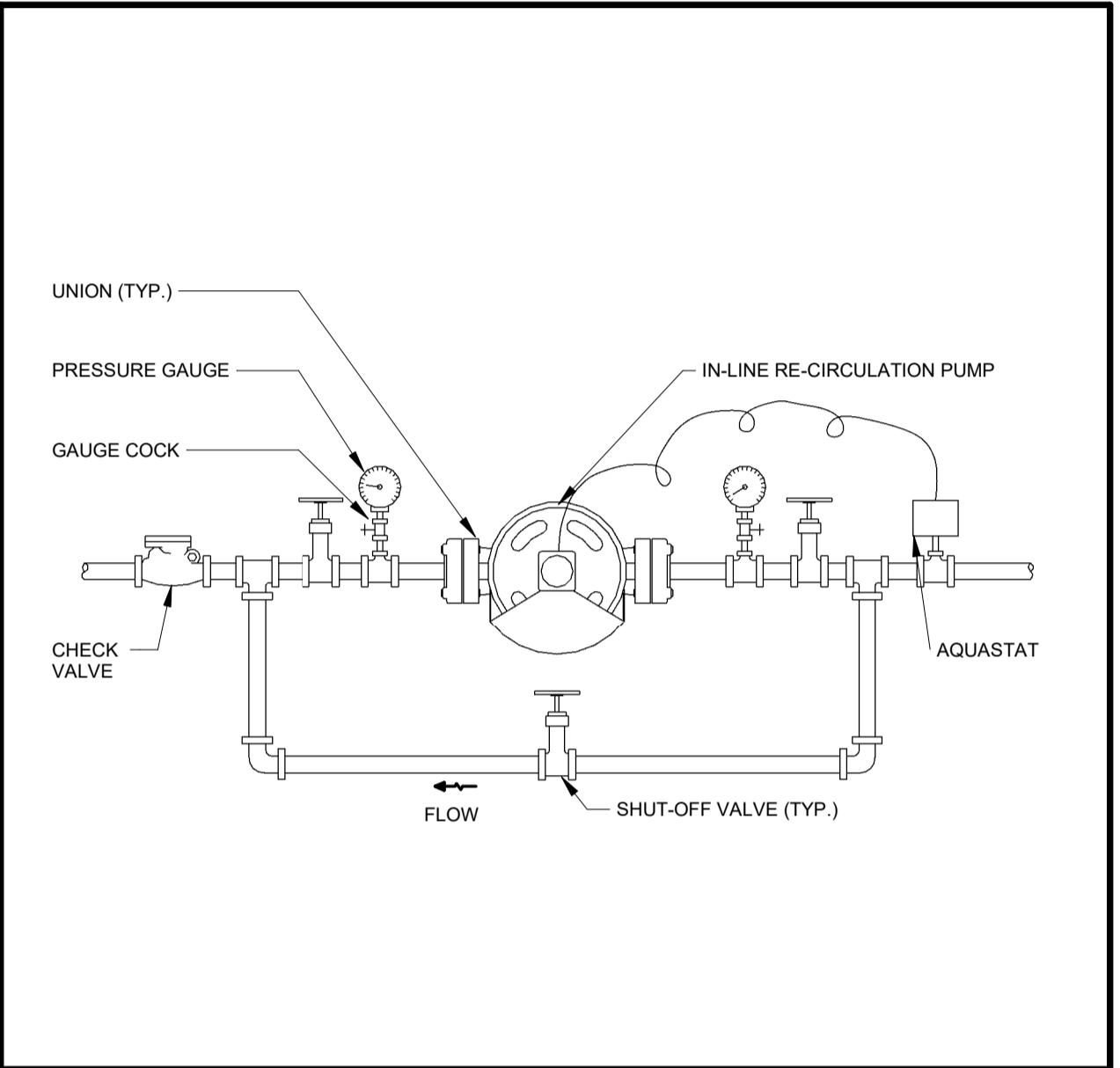
1890 Fifth Concession Rd



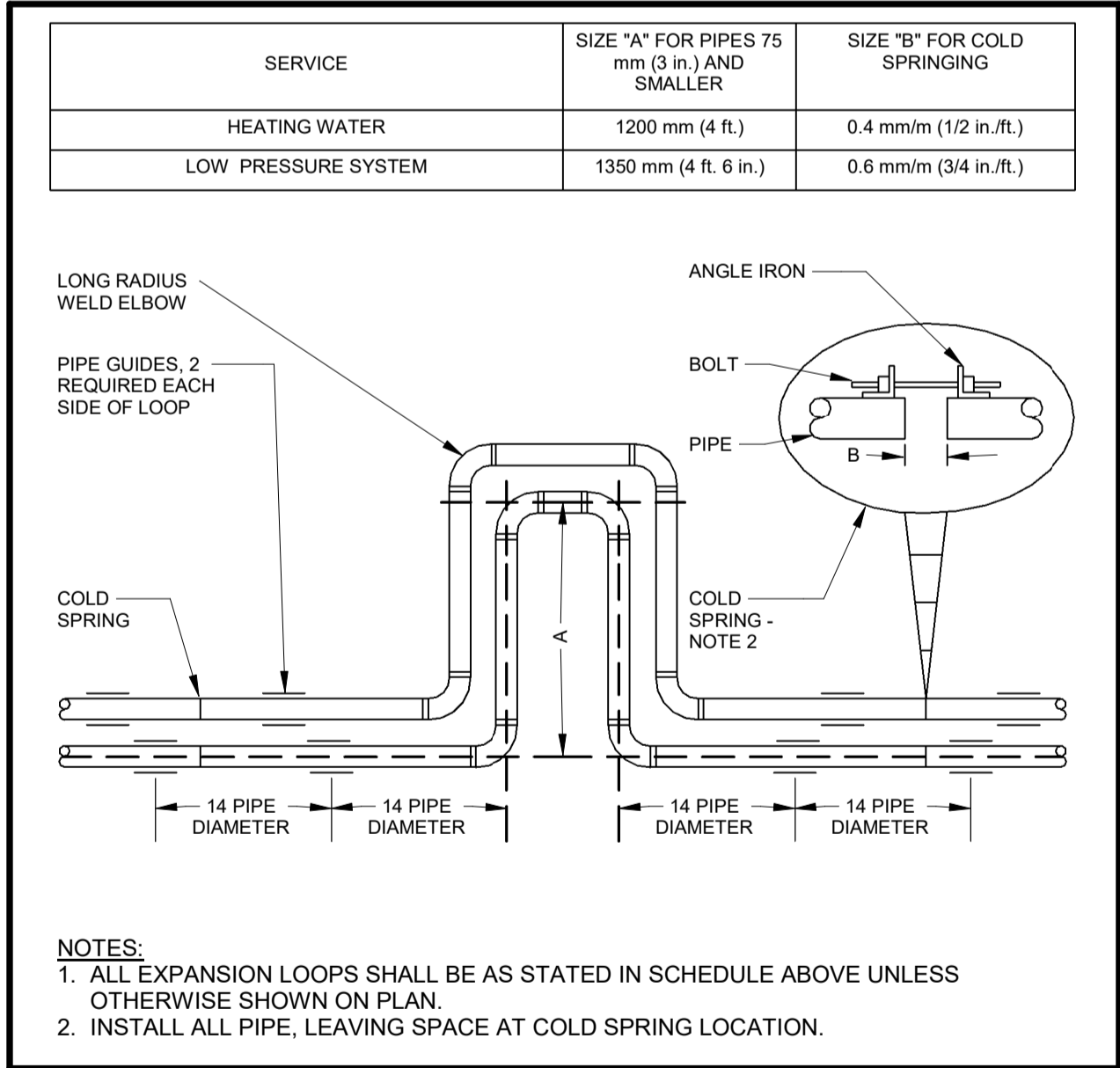
1 FLOOR CLEANOUT
Scale: NTS



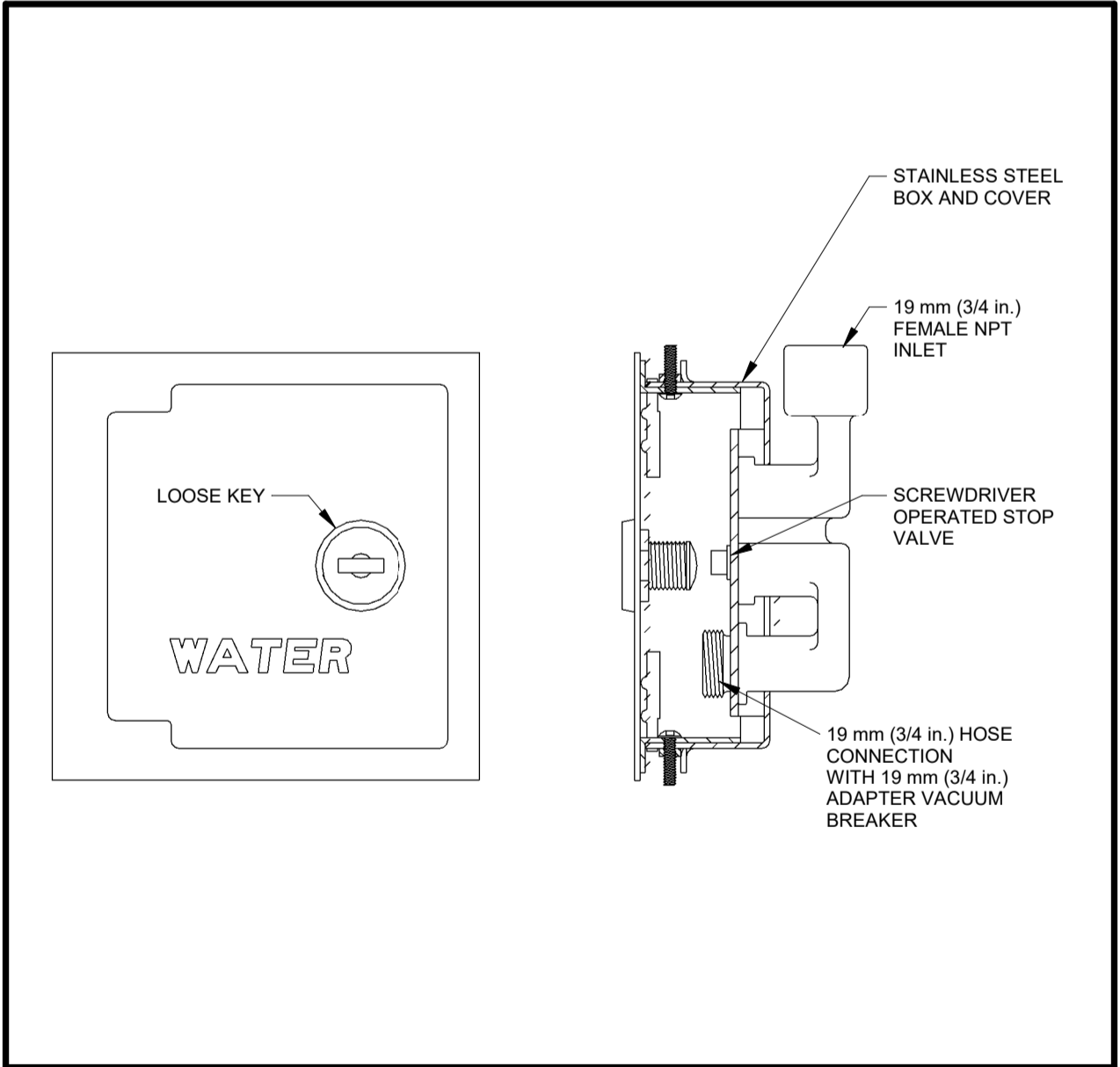
3 HORIZONTAL IN-LINE PUMP TYPE 1 & 2
Scale: NTS



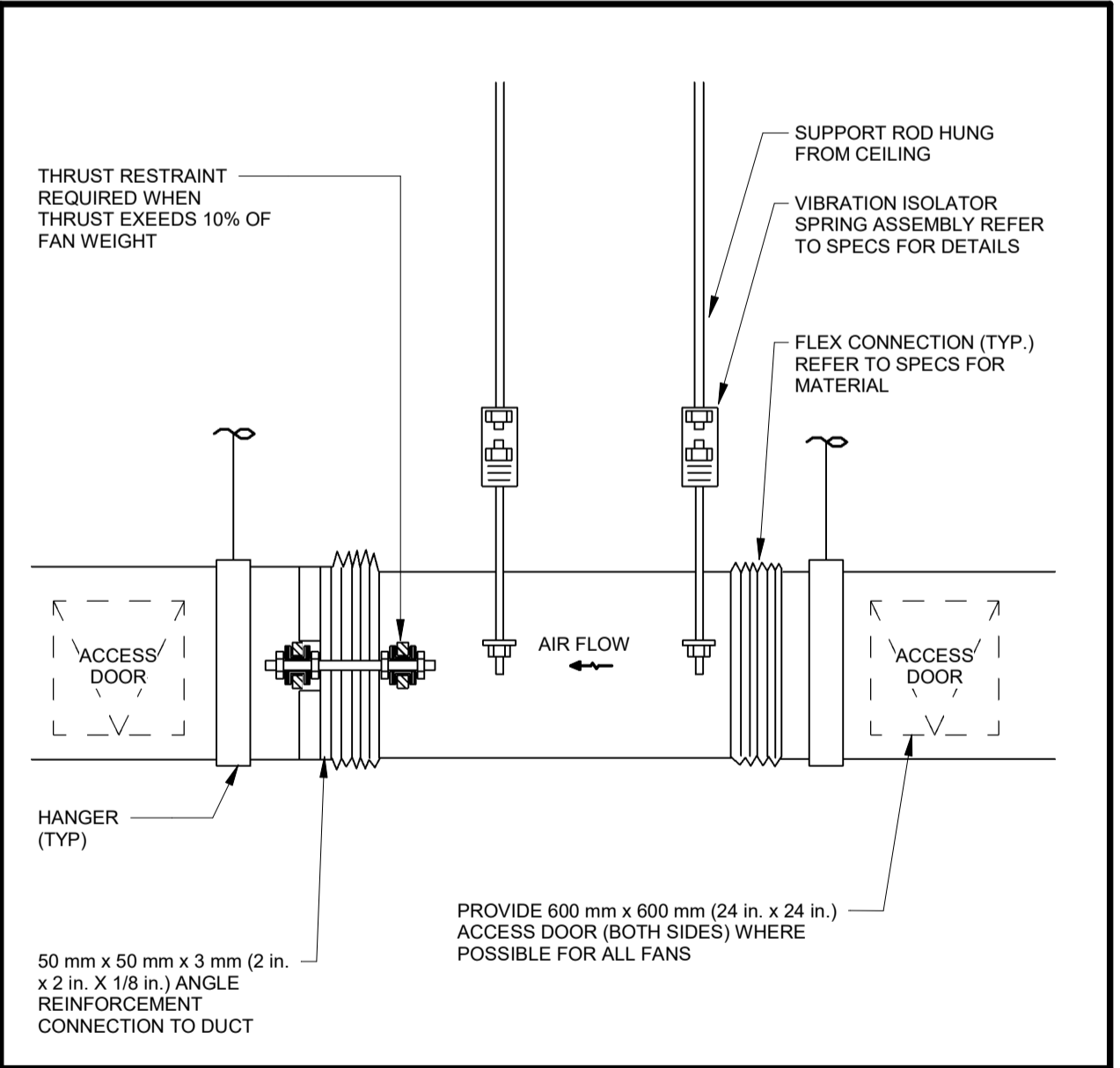
5 HOT WATER RECIRCULATION PUMP
Scale: NTS



2 HEATING PIPING EXPANSION LOOP DETAIL
Scale: NTS



4 HOSE-BIBB DETAIL
Scale: NTS



6 INLINE FAN
Scale: NTS

| CONSULTANT REVISIONS | | | |
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LICENSED PROFESSIONAL ENGINEER
MAR 14, 2011
R. G. CARKNER
100162393
6061569
PROVINCE OF ONTARIO

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| DESIGN BY: Designer | SCALE: As indicated |
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| CHECKED BY: Checker | CONSULTANT PROJECT NO. 60611569 |
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THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

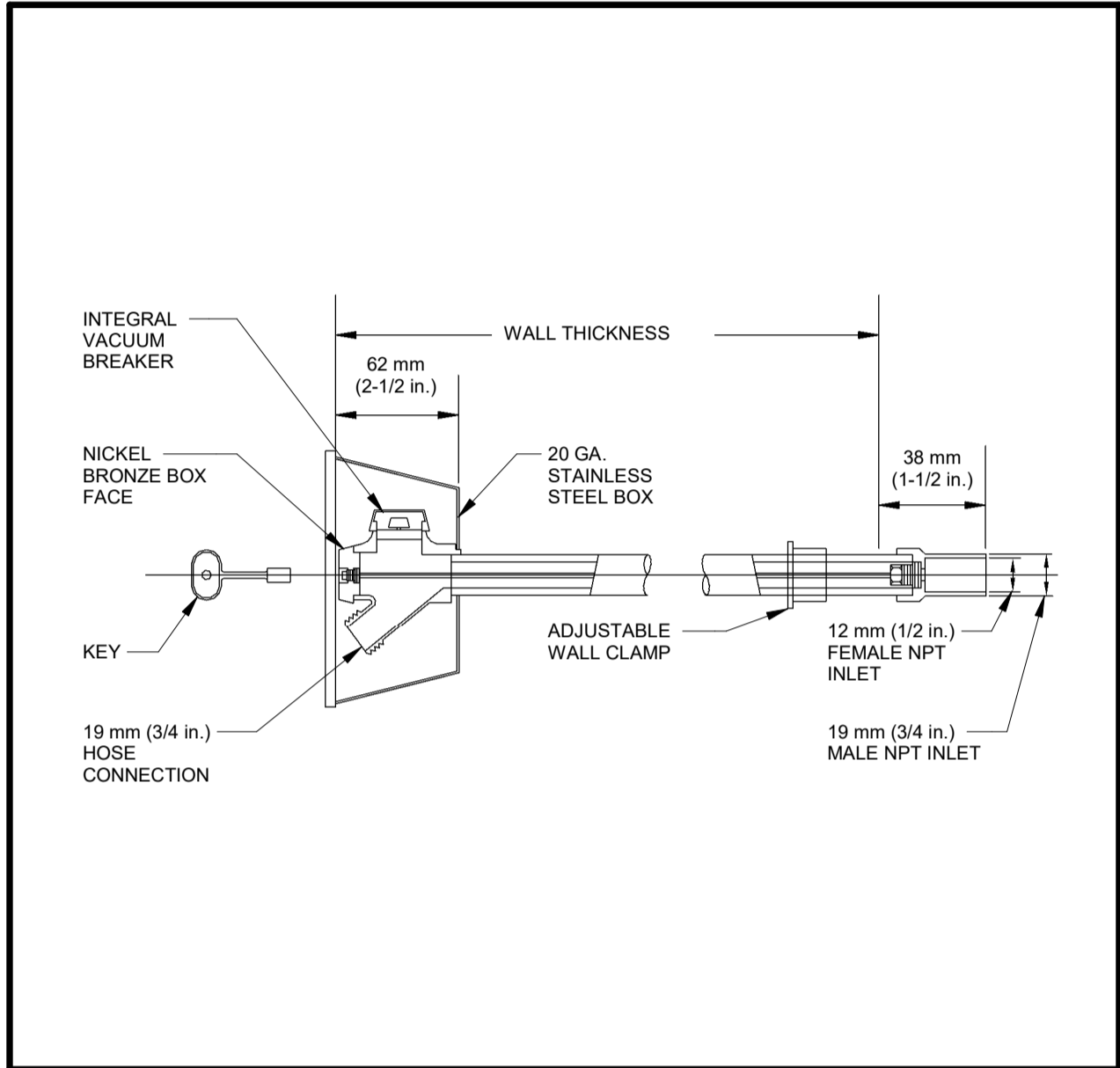
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
MECHANICAL STANDARD DETAILS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-804 | SHEET NO. |

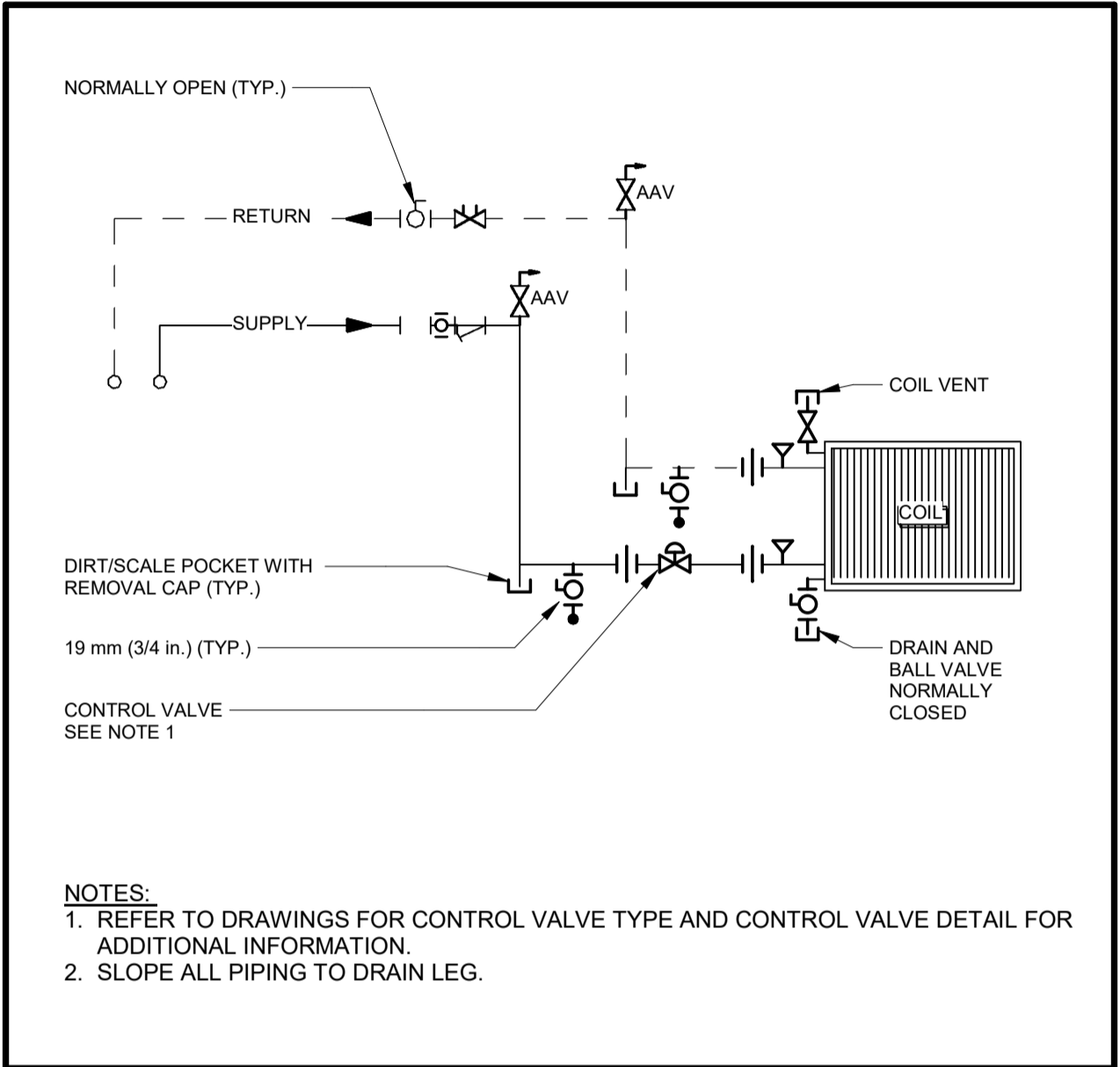
BM 300/JBP-AMER (CAN) 60611569-Station RDFS-M.rvt

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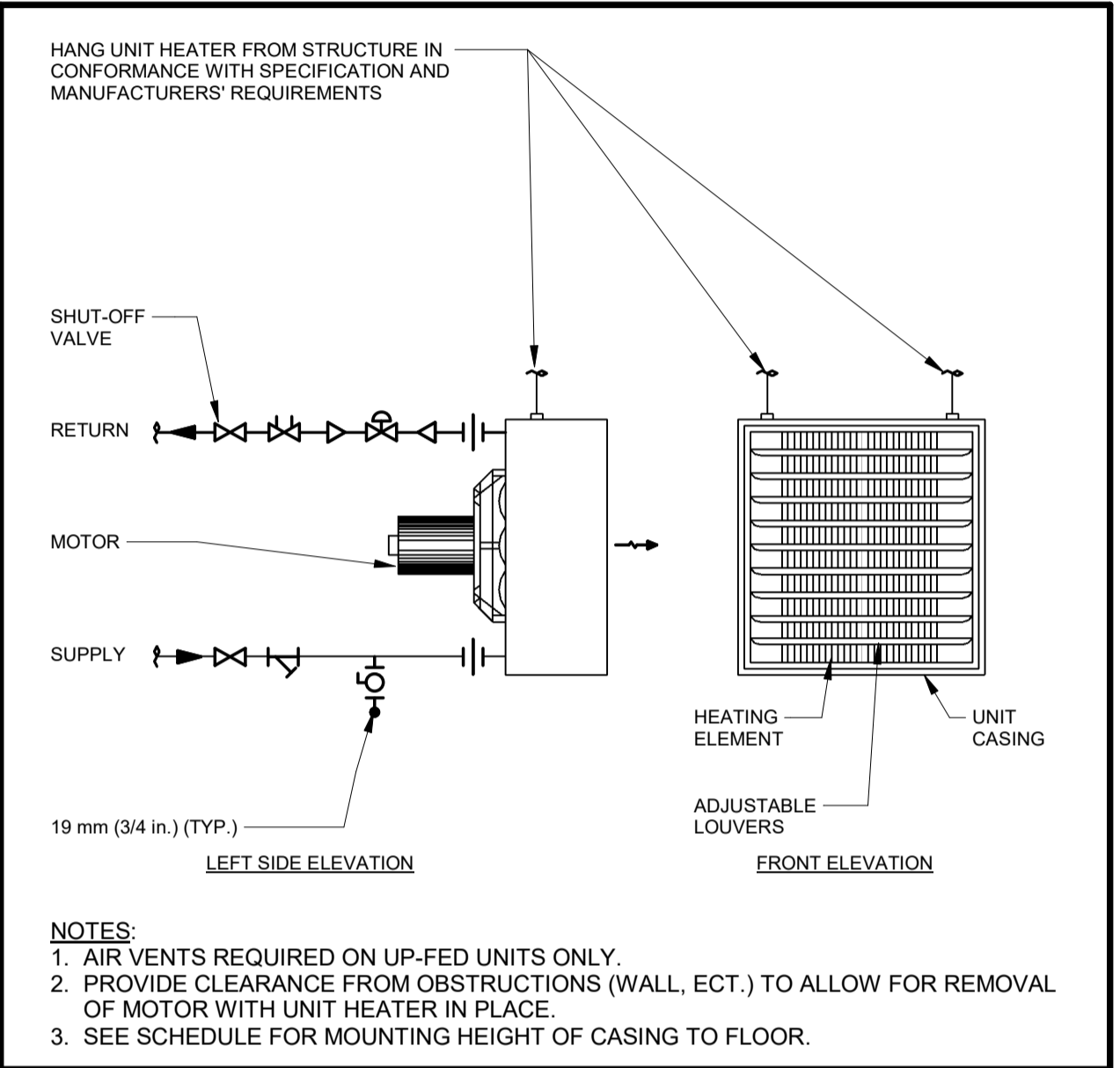
1890 Fifth Concession Rd



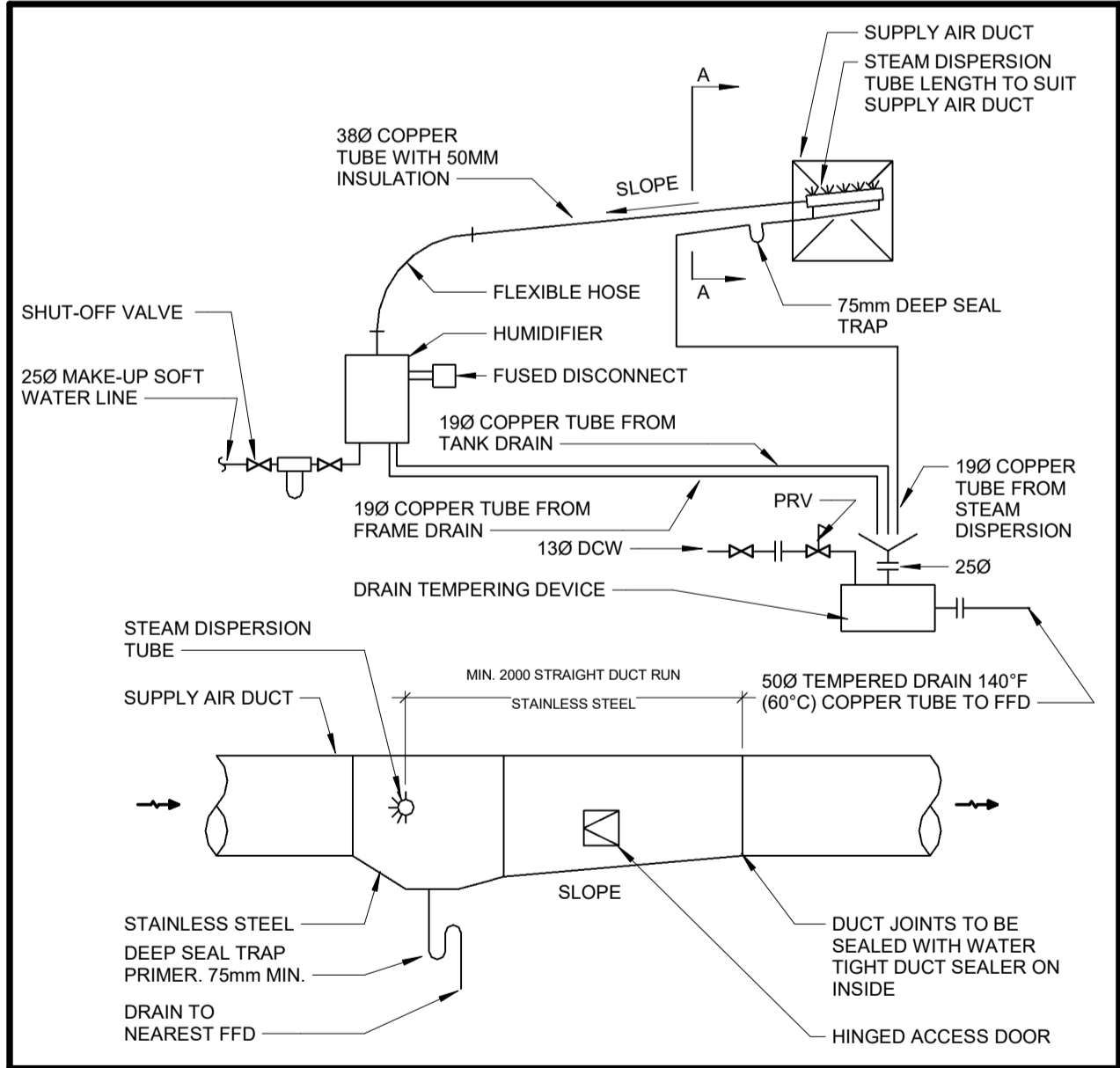
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Scale: NTS



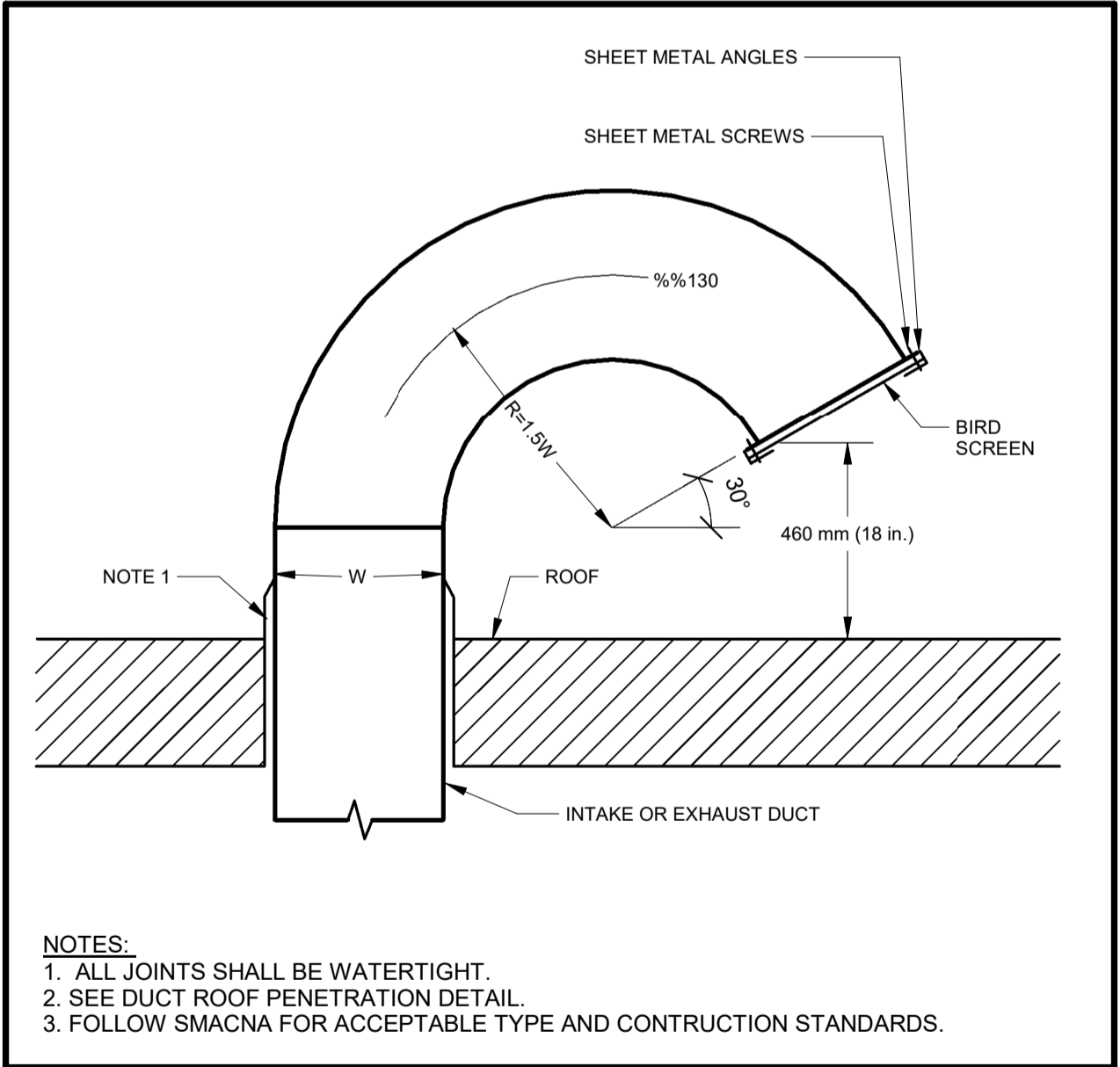
3 | TOP BRANCH TAKE-OFF
Scale: NTS



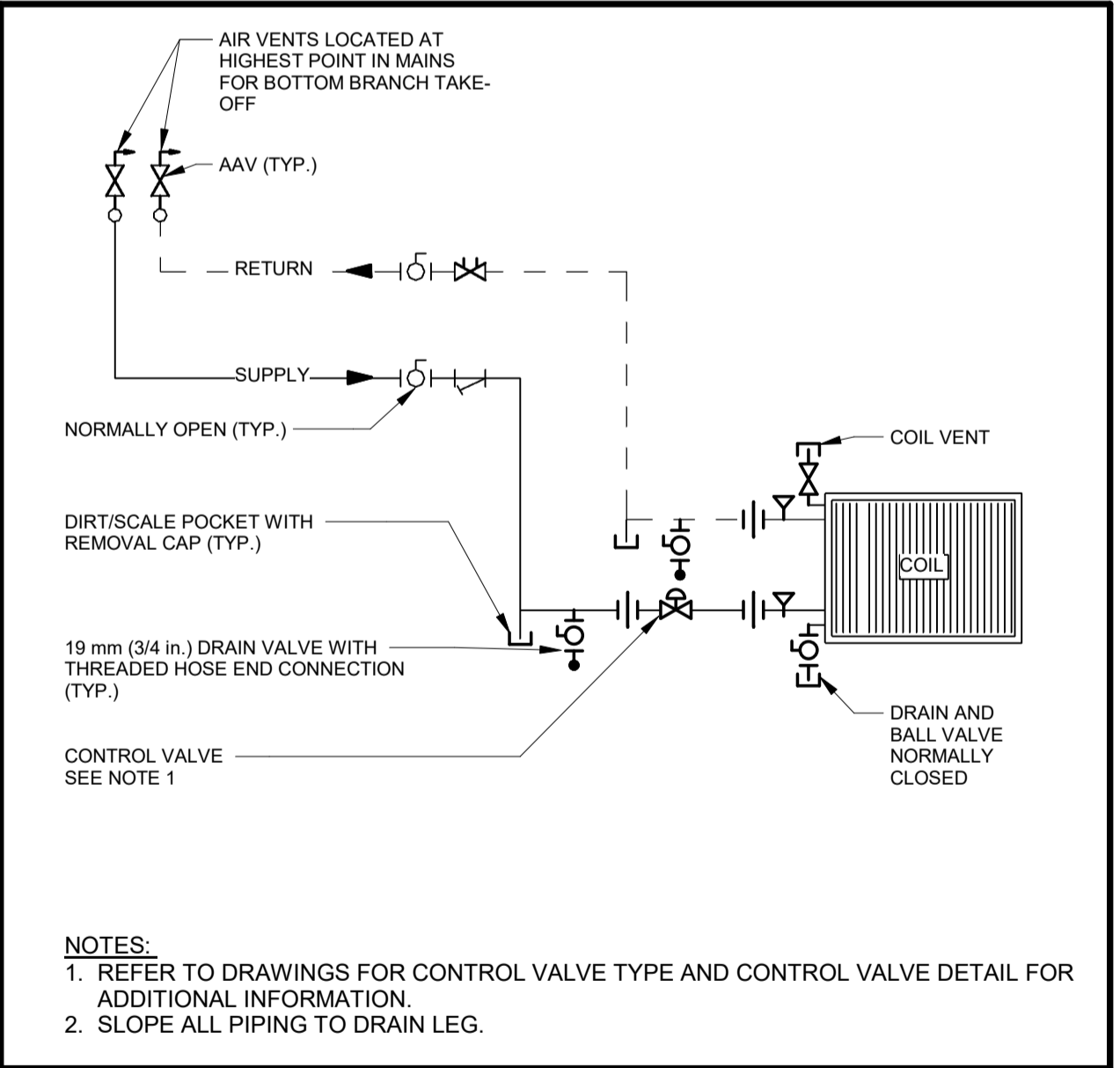
5 | UNIT HEATER CONNECTION
Scale: NTS



2 | DUCT MOUNTED HUMIDIFIER DETAIL
Scale: NTS



4 | TYPICAL GOOSENECK
Scale: NTS



6 | BOTTOM BRANCH TAKE-OFF
Scale: NTS

| CONSULTANT REVISIONS | | | |
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| NO. | DATE | NAME | REVISIONS |
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LICENSED PROFESSIONAL ENGINEER
MAR 14, 2014
R. G. CARKNER
100162393
6061569
PROVINCE OF ONTARIO

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| DESIGN BY: Designer | SCALE: As indicated |
| DRAWN BY: Author | DATE: 10/28/20 |
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| APPROVED BY: Approver | CLIENT FILE No.: 811/20 |

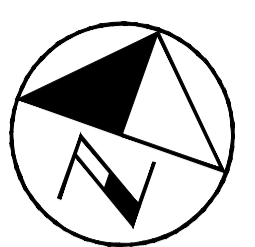
| CONTRACT REVISIONS | | | |
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THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

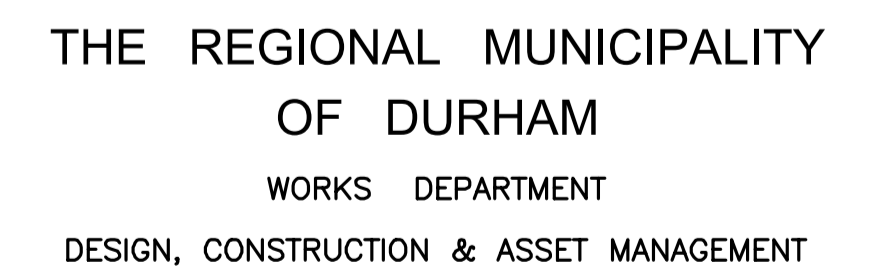
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061-18-01 |
| CONTRACT NO. T-1160-2021 | DRAWING NO. M-805 | SHEET NO. |

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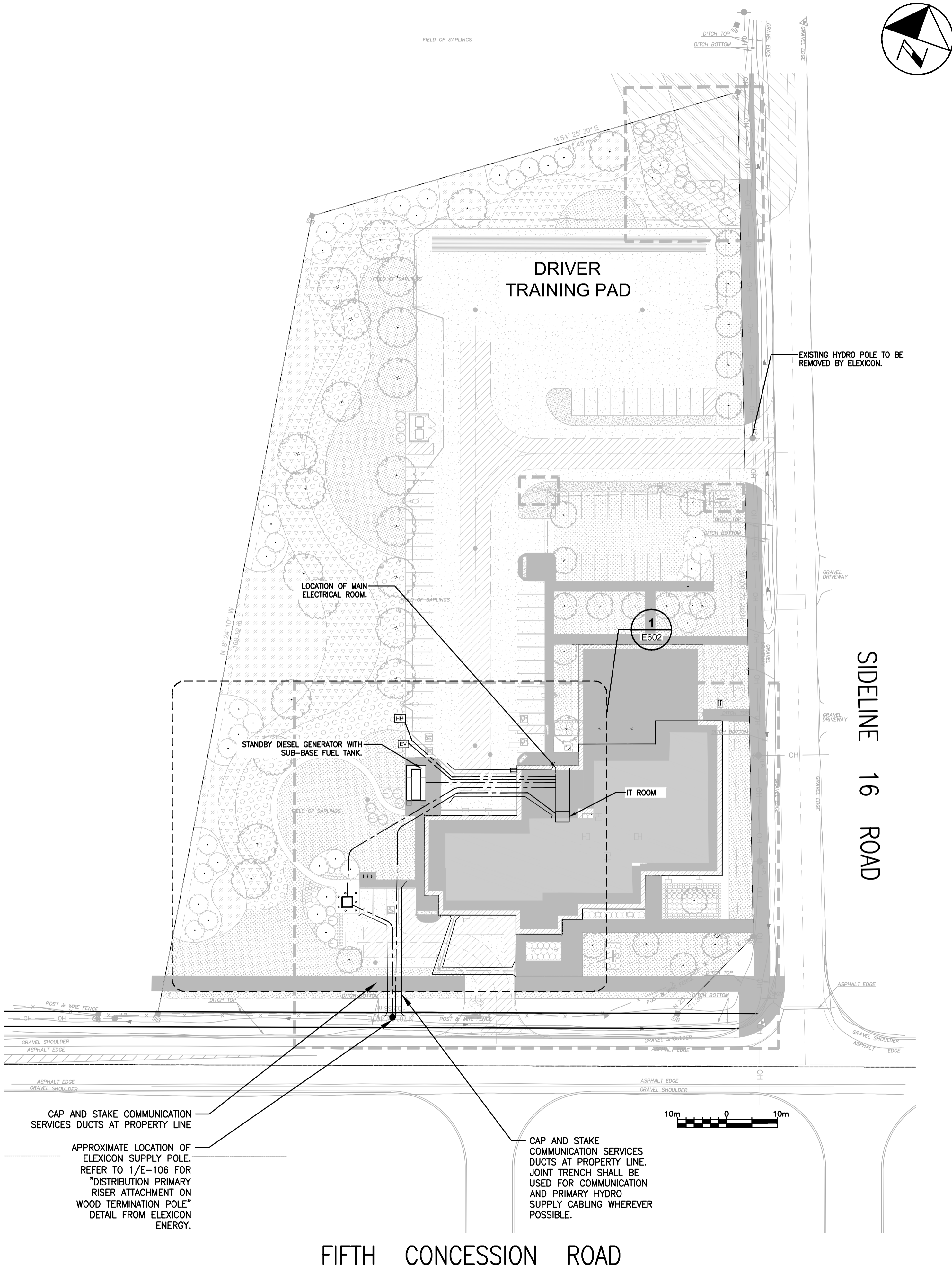
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| DRAWN BY: HD | DATE: 2020-10-30 |
| CHECKED BY: WA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: WA | SITE PLAN FILE NO. S 11/20 |

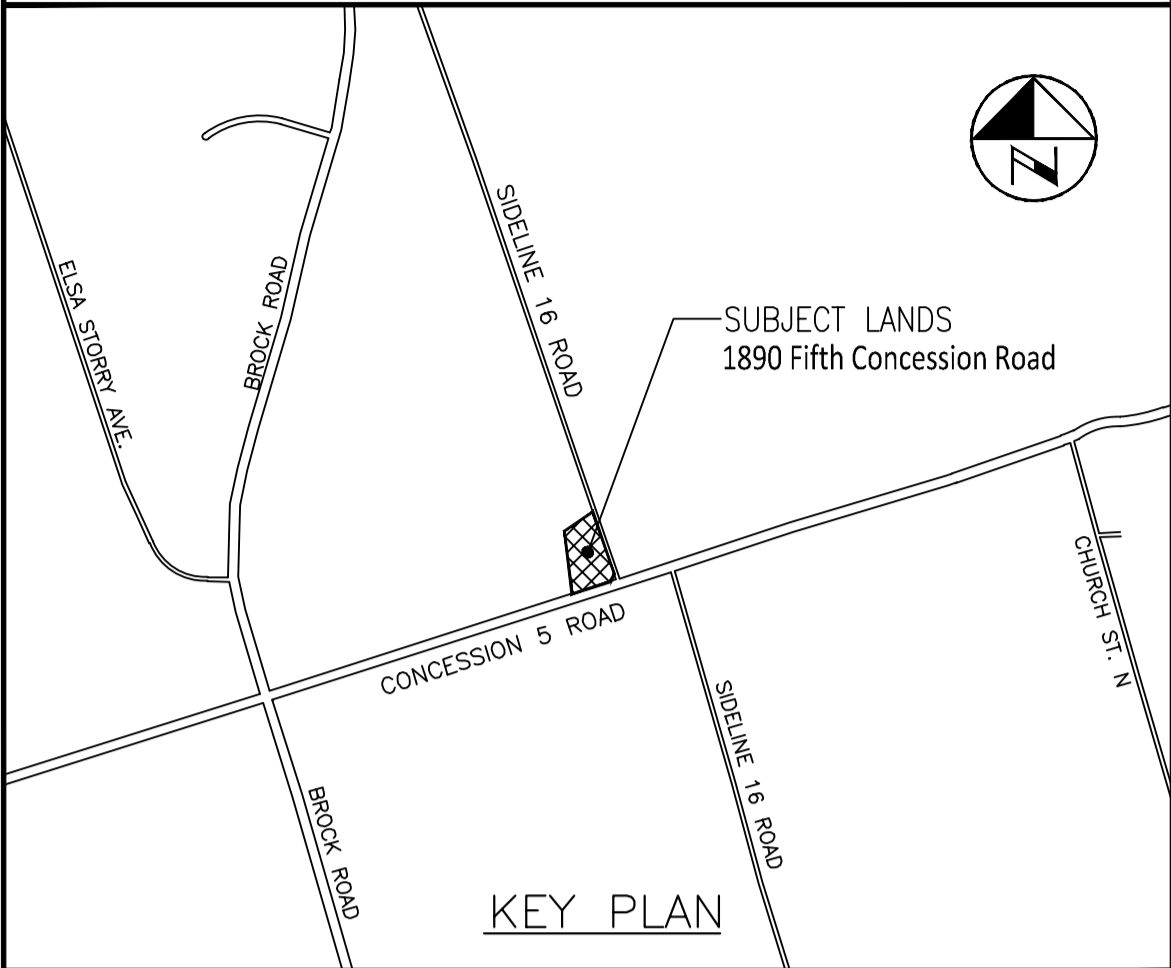


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| CONTRACT NO. T-XXXX-20XX | DRAWING NO. E-101 | SHEET NO. X OF XX |

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



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| NO. | DATE | NAME | REVISIONS |
|-----|-------|------|-------------------------|
| 6 | 03/22 | WA | ISSUED FOR CONSTRUCTION |
| 5 | 07/21 | GR | REVISED FOR 100% |
| 4 | 06/21 | GR | ISSUED FOR 100% |
| 3 | 03/21 | WA | ISSUED FOR 90% REVIEW |
| 2 | 12/20 | WA | ISSUED FOR 60% REVIEW |
| 1 | 11/20 | WA | ISSUED FOR 30% REVIEW |

PRIME CONSULTANT

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SUB-CONSULTANT

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| DRAWN BY: HD | DATE: 2020-10-30 |
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| APPROVED BY: WA | SITE PLAN FILE NO. S 11/20 |

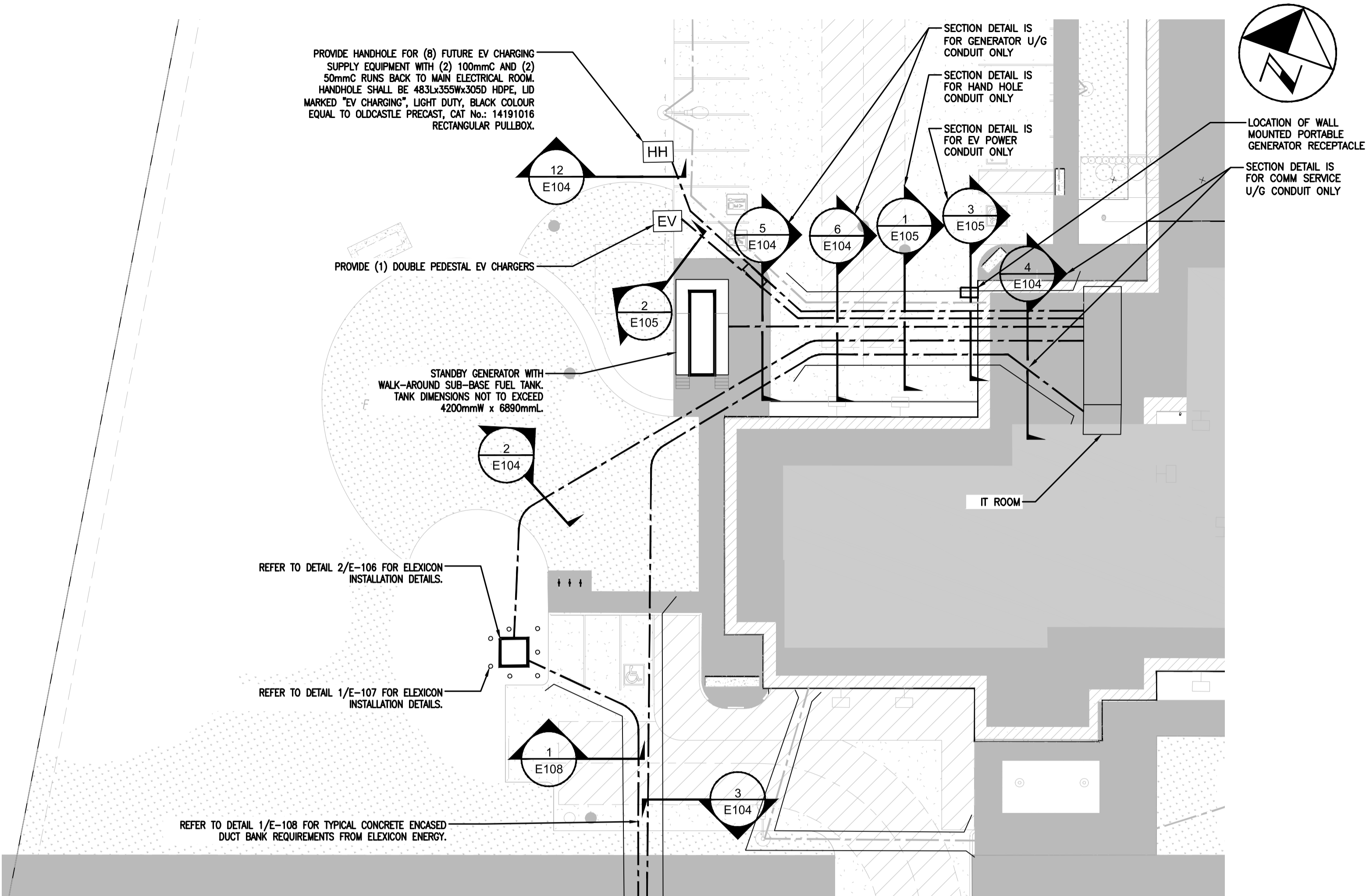
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THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

SEATON EMS SITE POWER PLAN

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| PROPERTY NO. XXX-X-XXX | FACILITY CODE XXX-XXX-XXXX | FACILITIES PROJECT NO. XXXX-XX-XX |
| CONTRACT NO. T-XXXX-20XX | DRAWING NO. E-102 | SHEET NO. X OF XX |

NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.



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KEY PLAN

| NO. | DATE | NAME | REVISIONS |
|-----|-------|------|-------------------------|
| 4 | 03/22 | WA | ISSUED FOR CONSTRUCTION |
| 3 | 07/21 | GR | REVISED FOR 100% |
| 2 | 06/21 | GR | ISSUED FOR 100% |
| 1 | 03/21 | WA | ISSUED FOR 90% REVIEW |

PRIME CONSULTANT

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50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
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| DESIGN BY: | GR | SCALE: | 1:250 |
| DRAWN BY: | HD | DATE: | 2020-10-30 |
| CHECKED BY: | WA | CONSULTANT PROJECT NO. | 60611569 |
| APPROVED BY: | WA | SITE PLAN FILE NO. | S 11/20 |

| NO. | DATE | NAME | REVISIONS |
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THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT

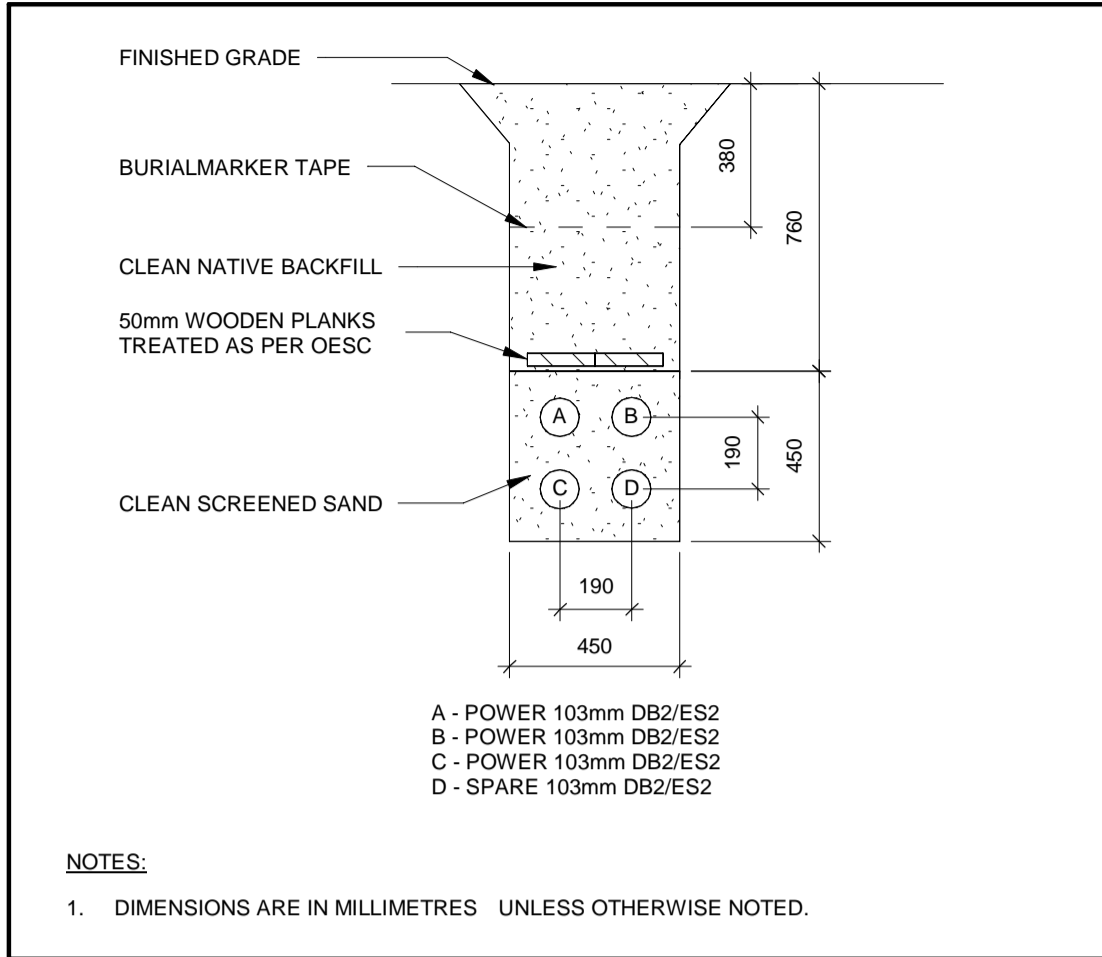
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

SEATON EMS

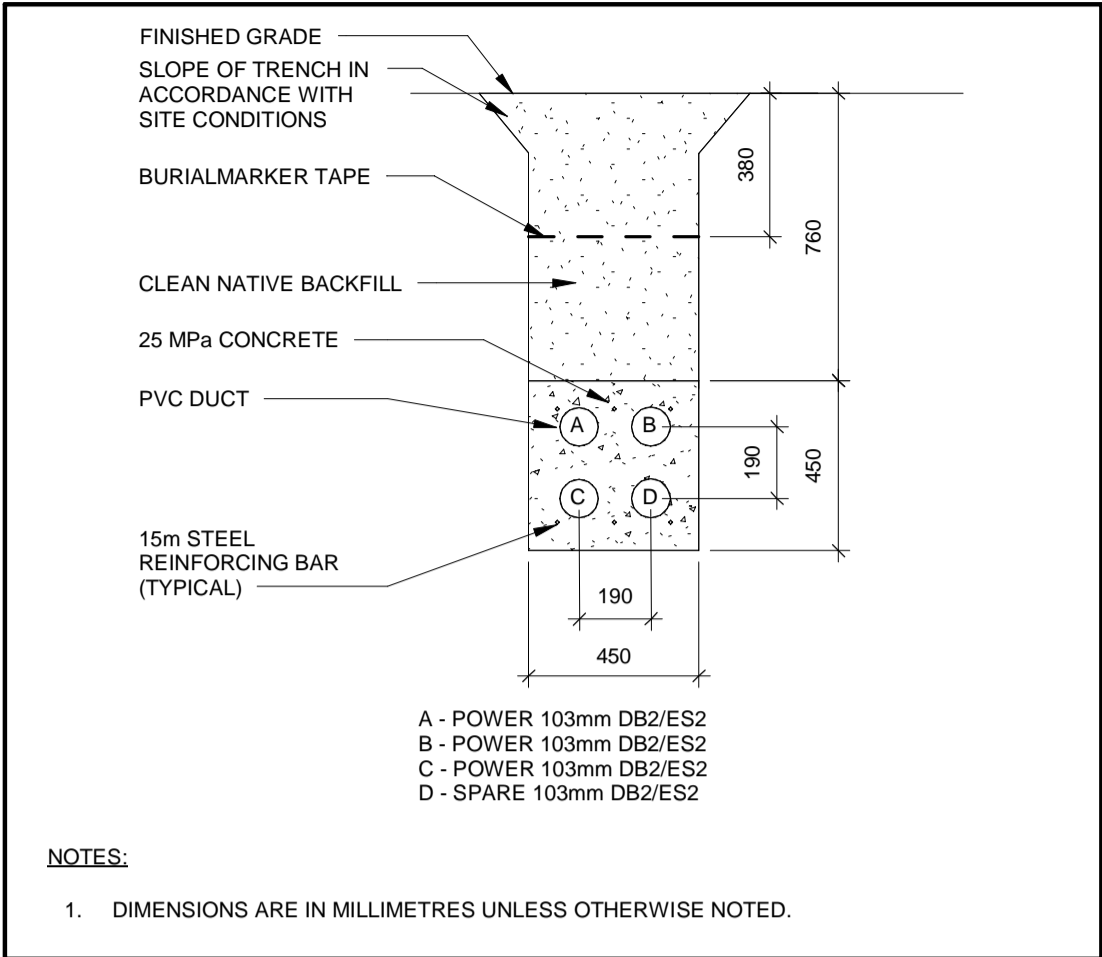
ENLARGE SITE POWER PLAN

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| PROPERTY NO. XXX-X-XXX | FACILITY CODE XXX-XXX-XXXX | FACILITIES PROJECT NO. XXXX-XX-XX |
| CONTRACT NO. T-XXXX-20XX | DRAWING NO. E-103 | SHEET NO. X OF XX |

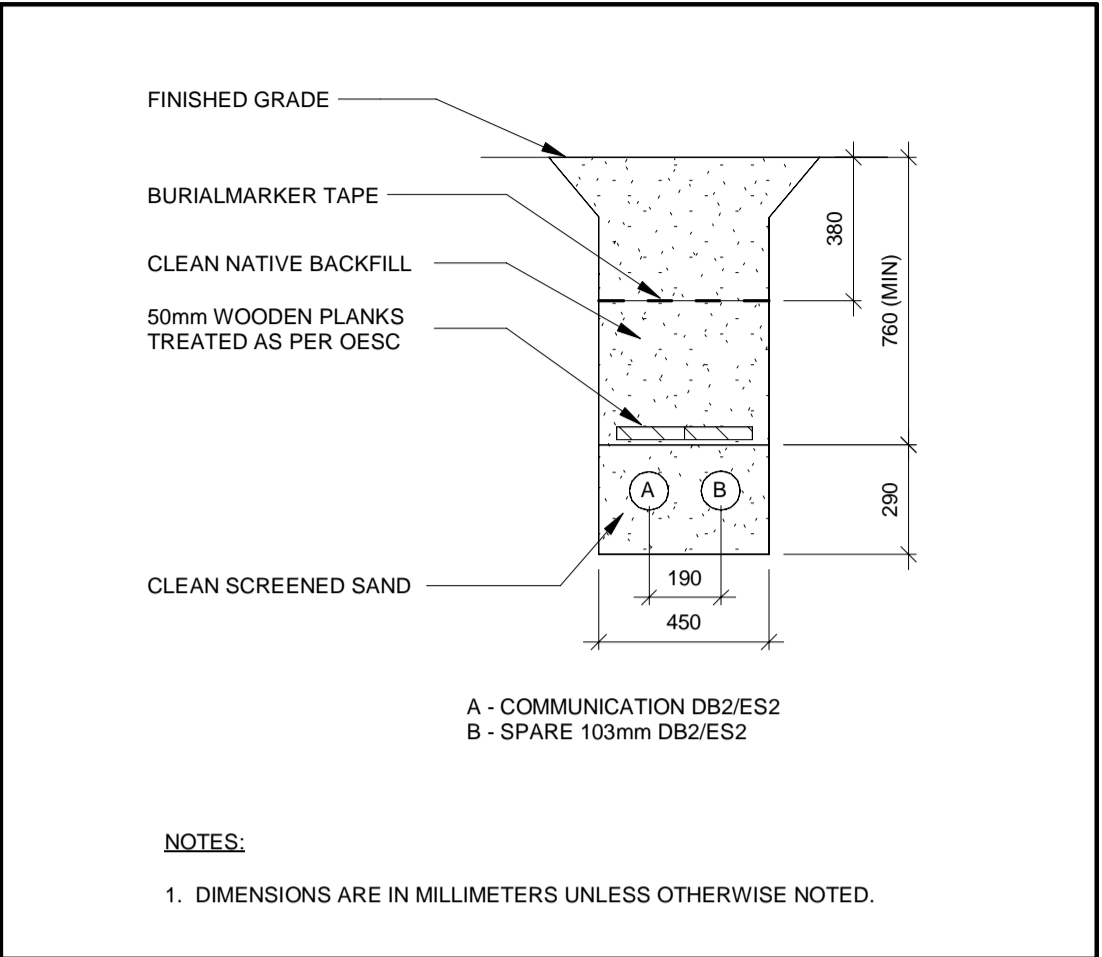
NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.



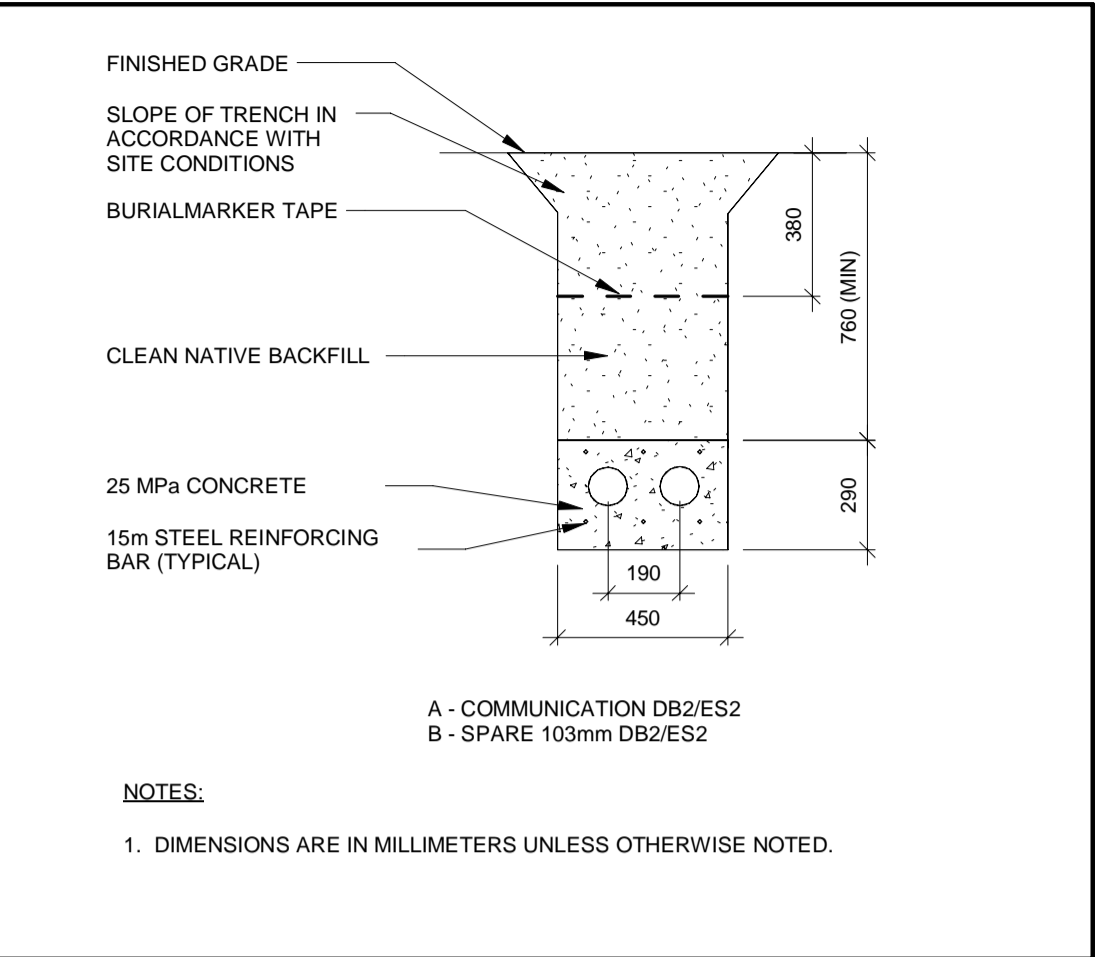
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E-104 N.T.S.



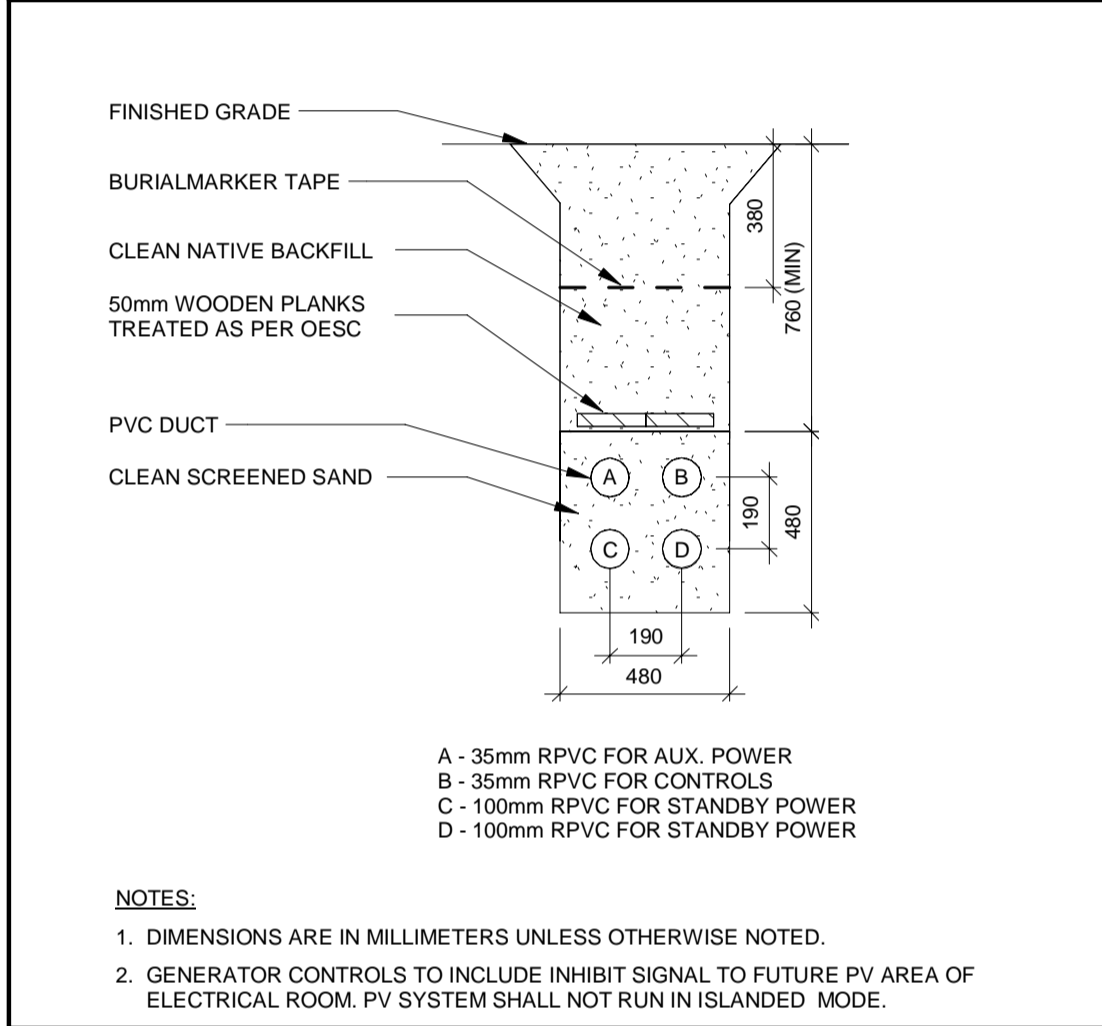
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E-104 N.T.S.



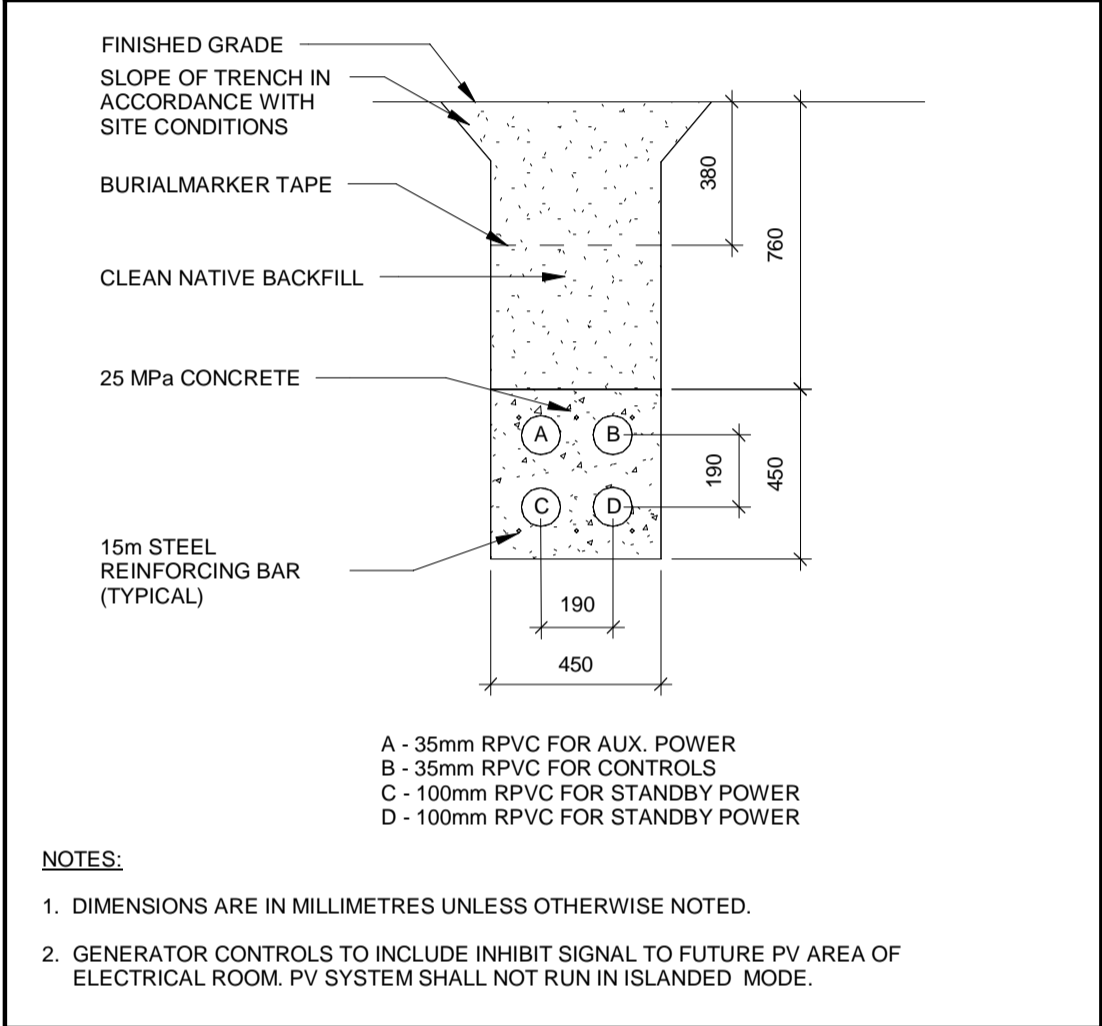
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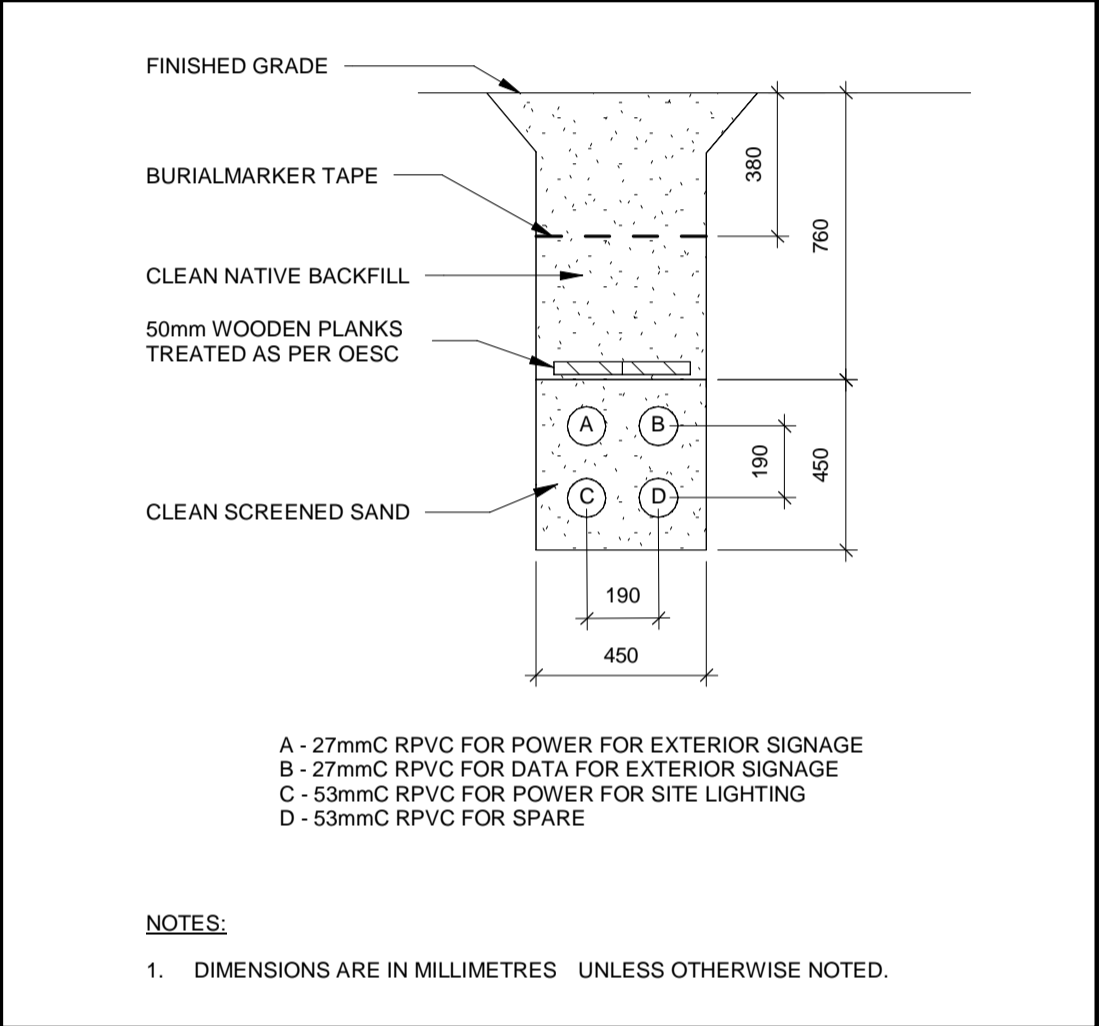
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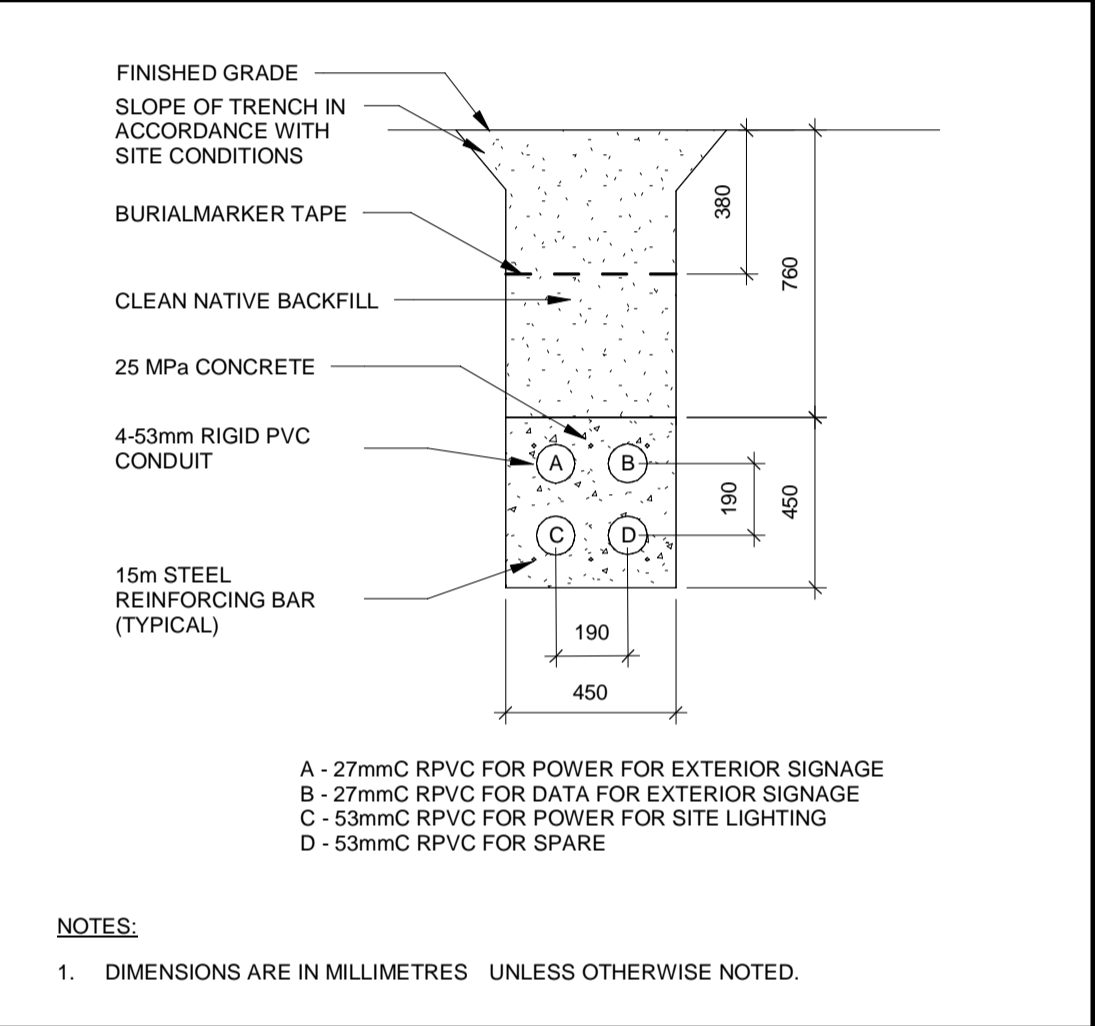
5 STANDBY GENERATOR - DIRECT BURIED
E-104 N.T.S.



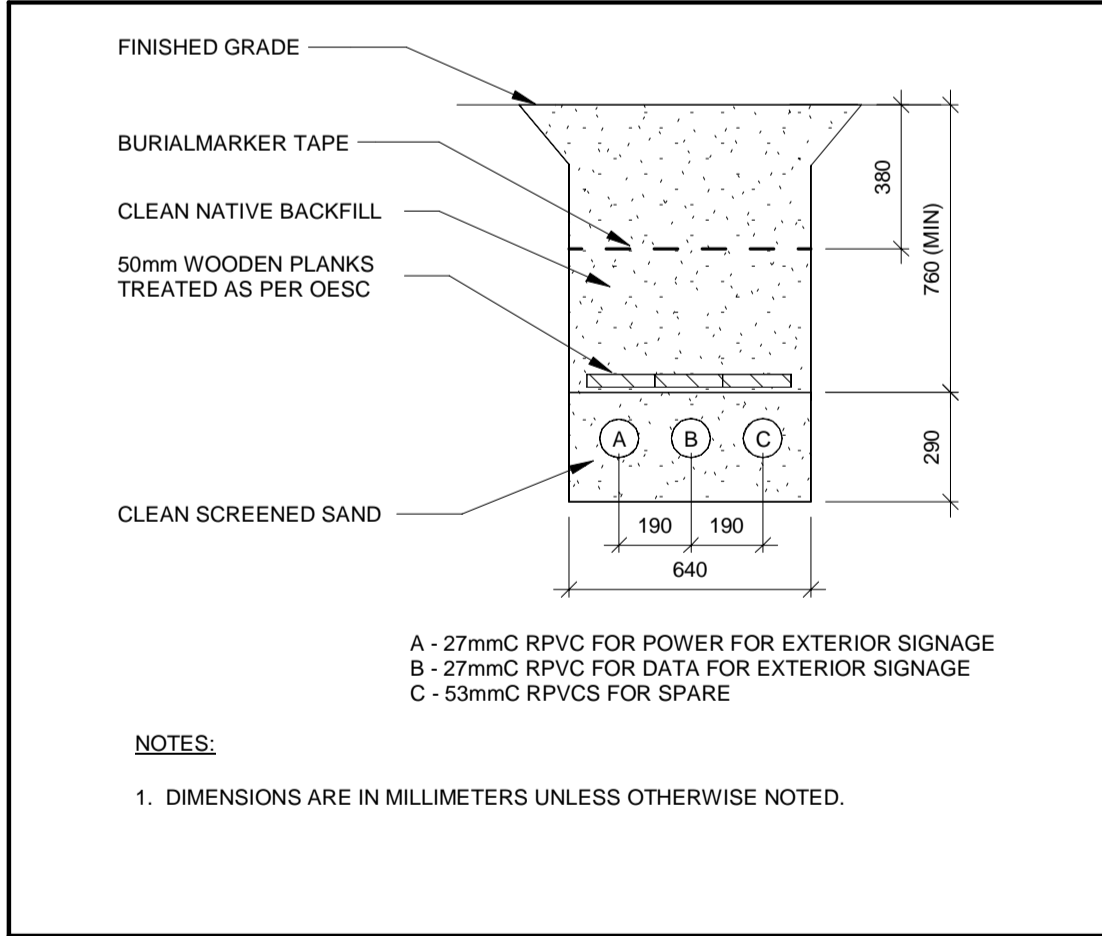
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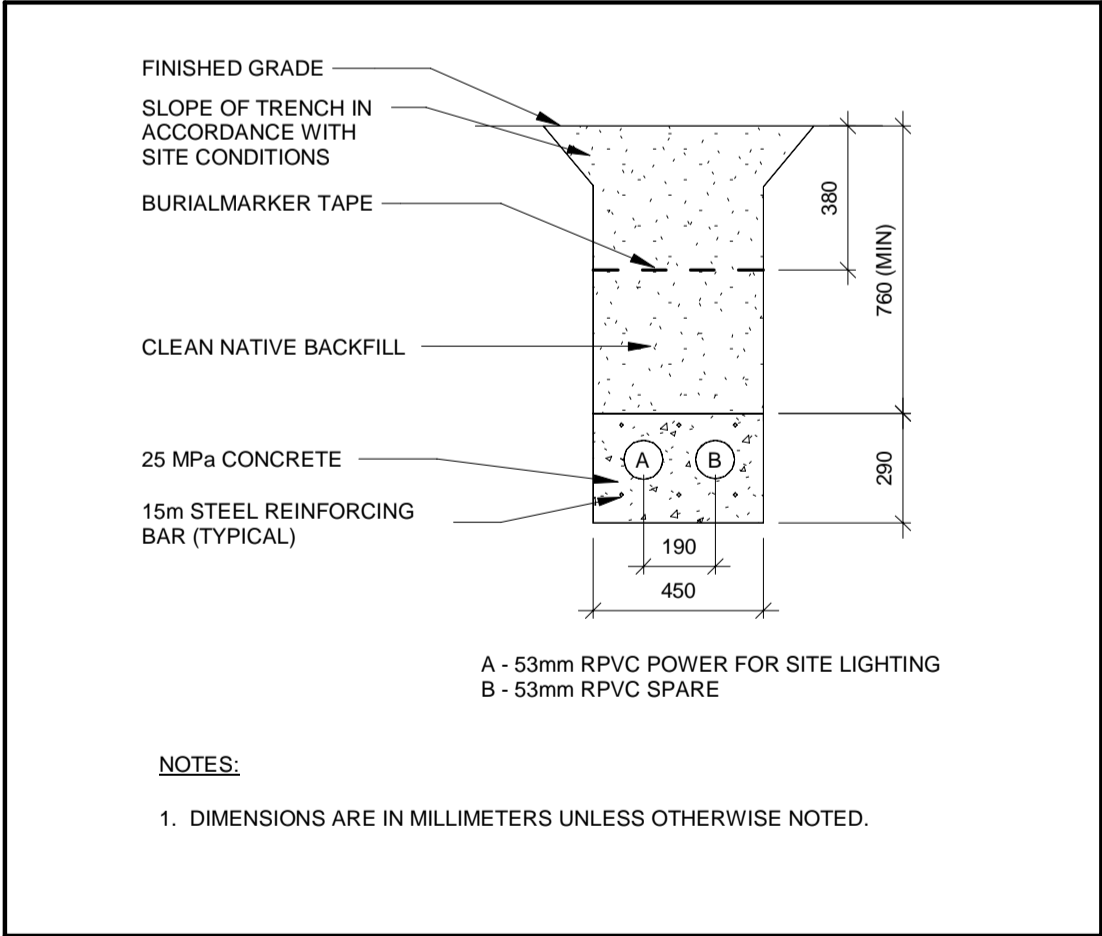
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E-104 N.T.S.



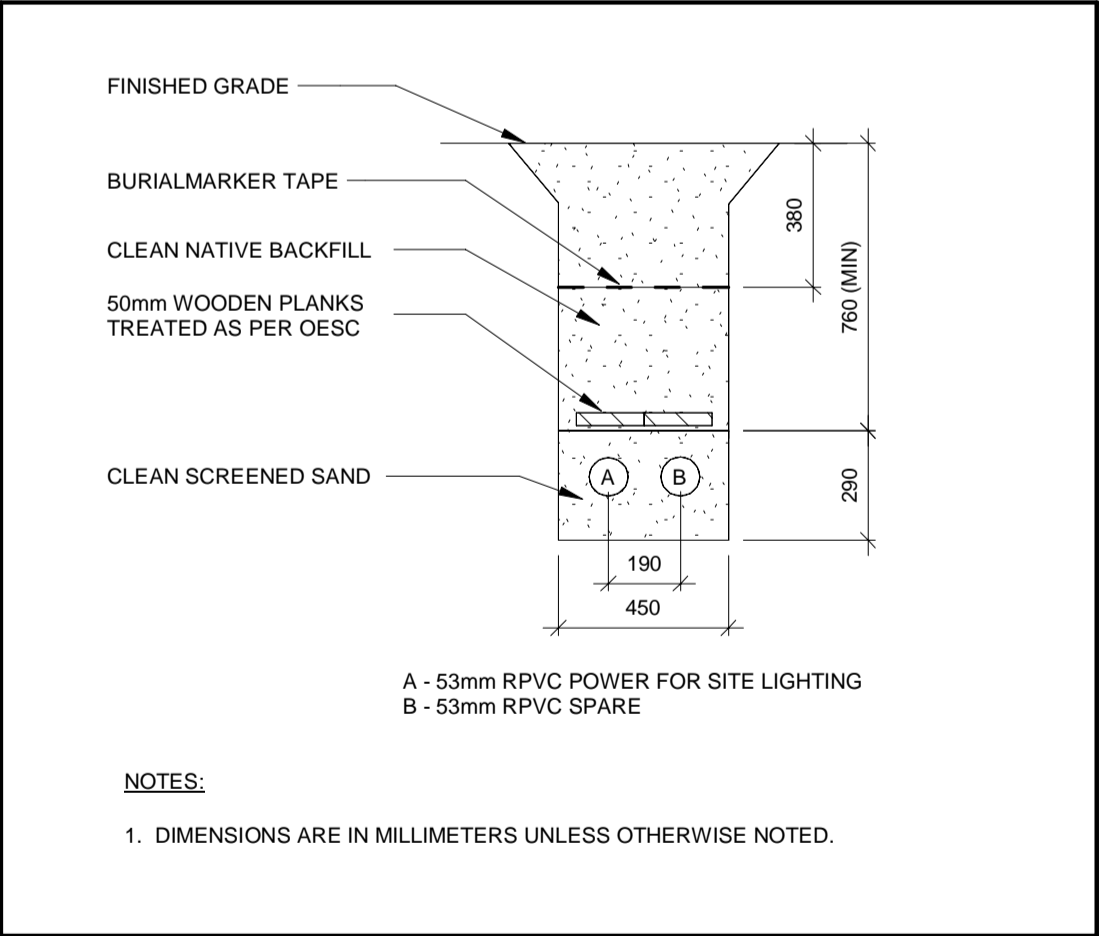
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E-104 N.T.S.



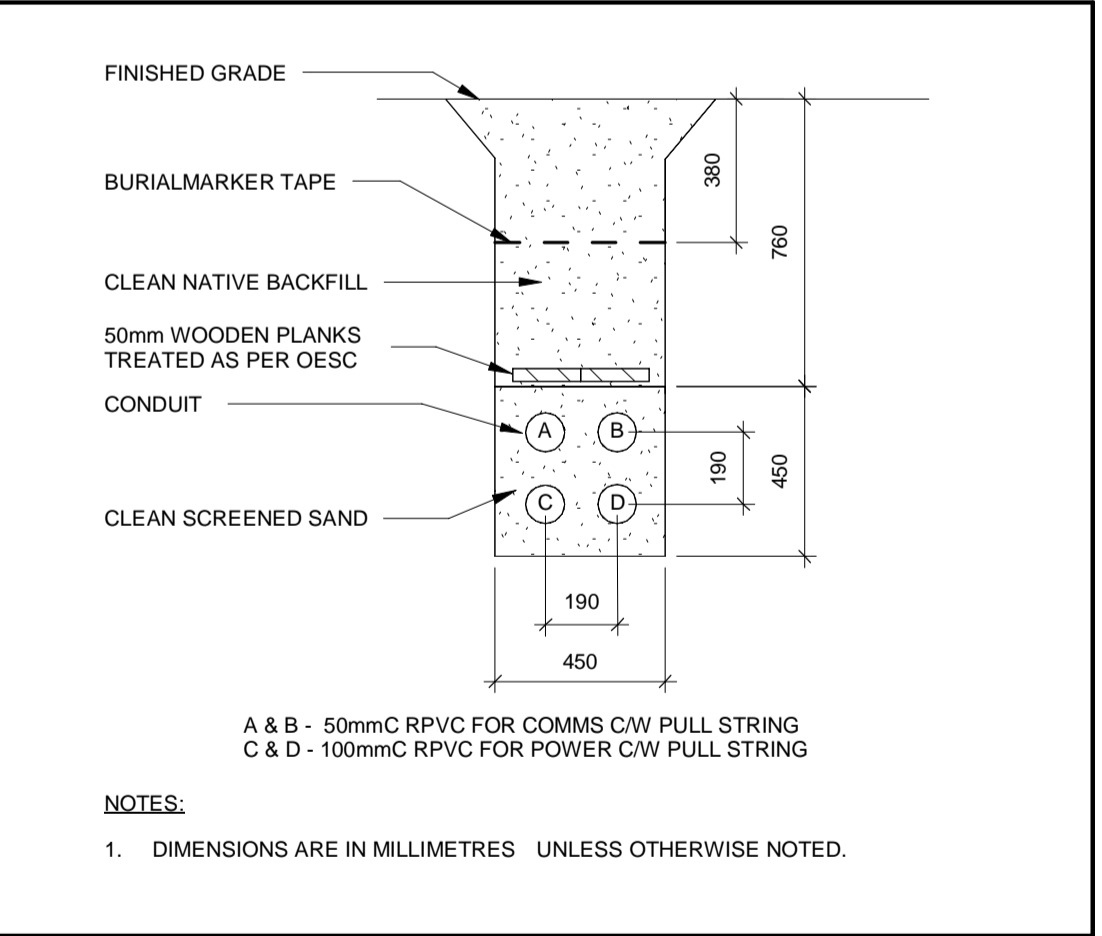
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E-104 N.T.S.



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E-104 N.T.S.

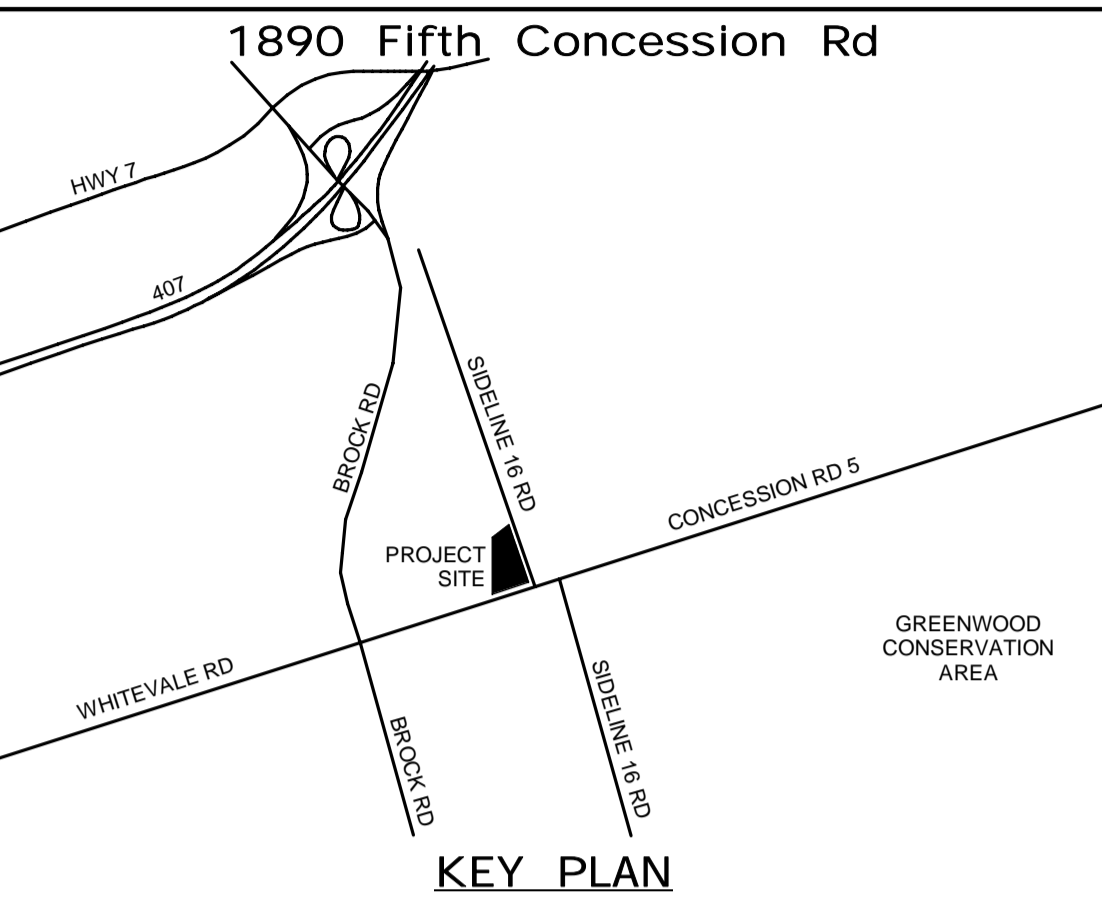


11 SITE LTG - DIRECT BURIED
E-104 N.T.S.



12 FUTURE EV - DIRECT BURIED
E-104 N.T.S.

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519 650 5313 tel 519 650 3424 fax
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| DESIGN BY: GR | SCALE: N.T.S. |
| DRAWN BY: HD | DATE: 05/27/21 |
| CHECKED BY: WA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: WA | CLIENT FILE No.: 811/20 |

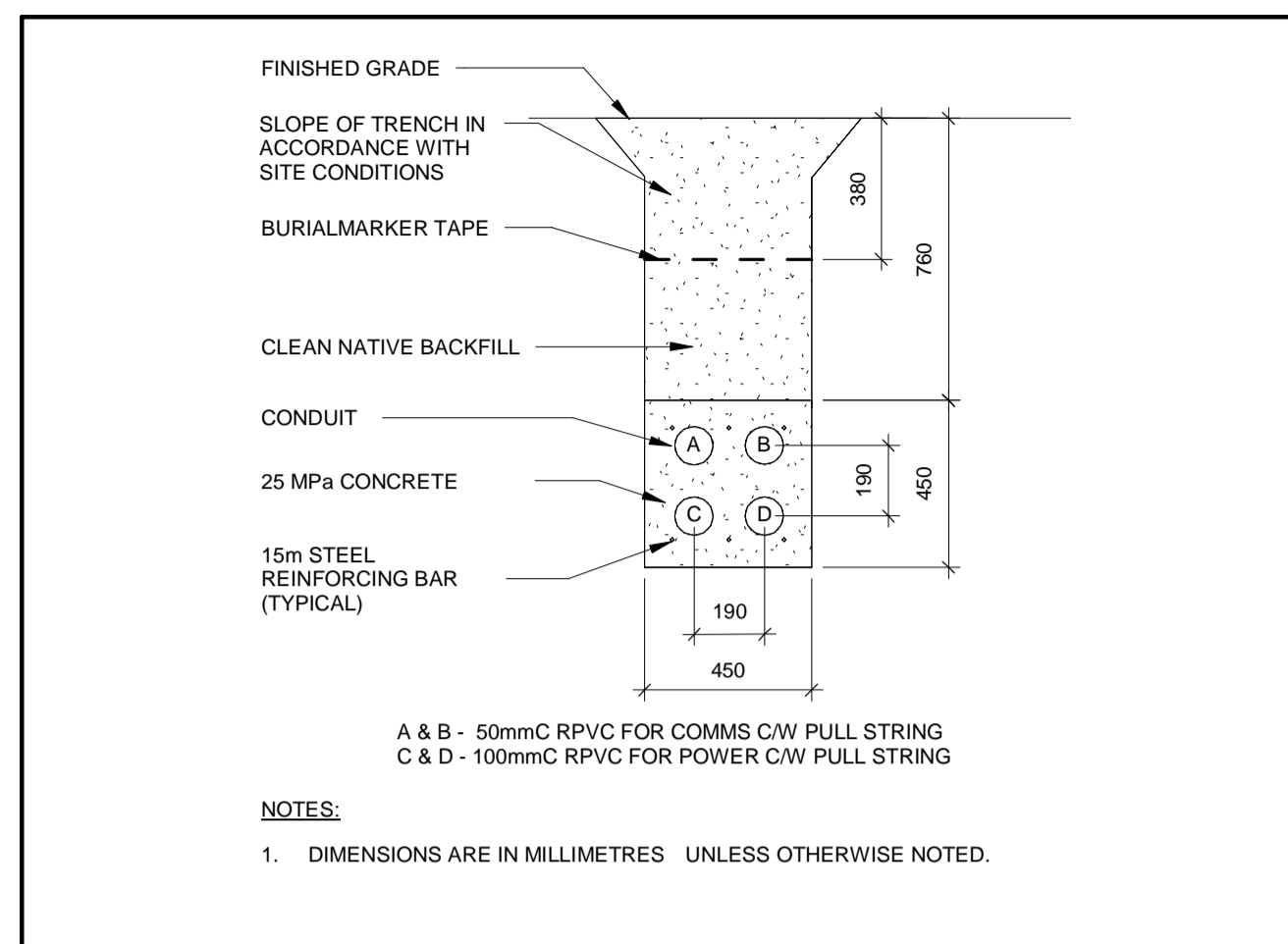
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| | 3 | 03/14/2022 | ISSUED FOR CONSTRUCTION |
| | 2 | 10/18/21 | RESPONSE TO CITY COMMENTS |
| | 1 | 09/22/21 | ISSUED FOR TENDER |
| | NO | DATE | NAME |
| | | | REVISIONS |

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

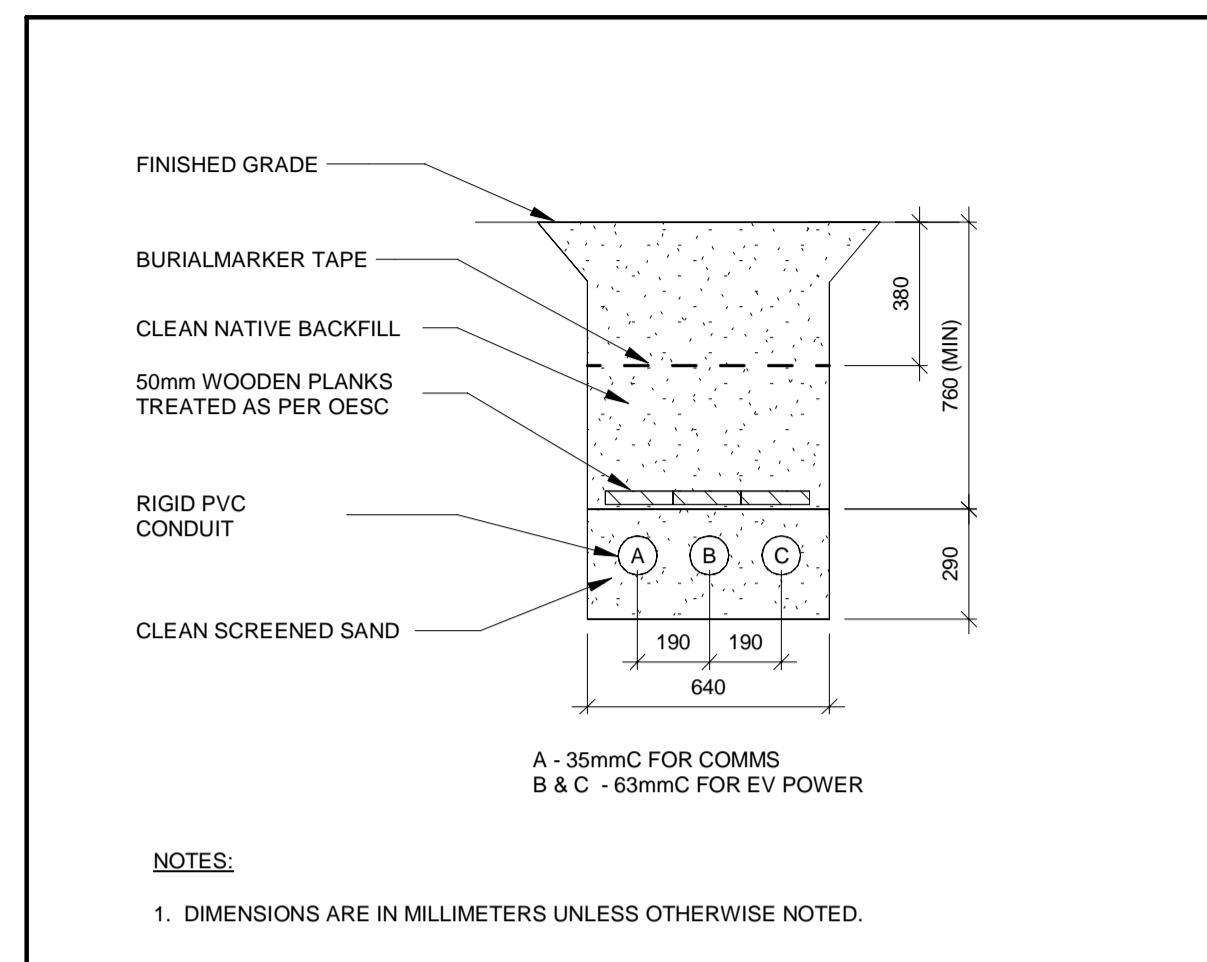
NEW SEATON PARAMEDIC STATION
AND TRAINING FACILITY IN PICKERING
ELECTRICAL SITE DETAILS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 104 | SHEET NO. |

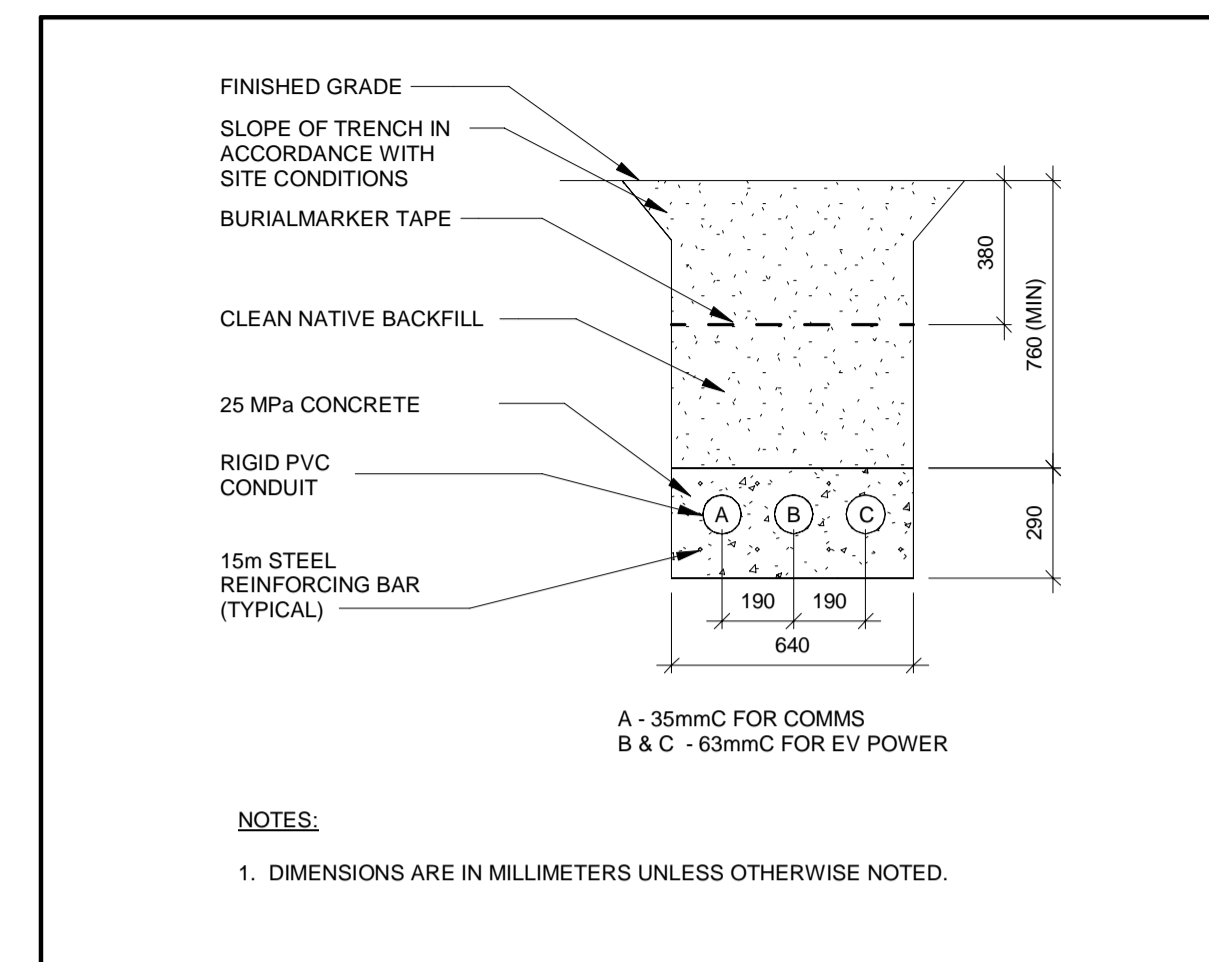
BIM 300/JBP-AMER (CAN) 60611569-Station RDFS-A.rvt



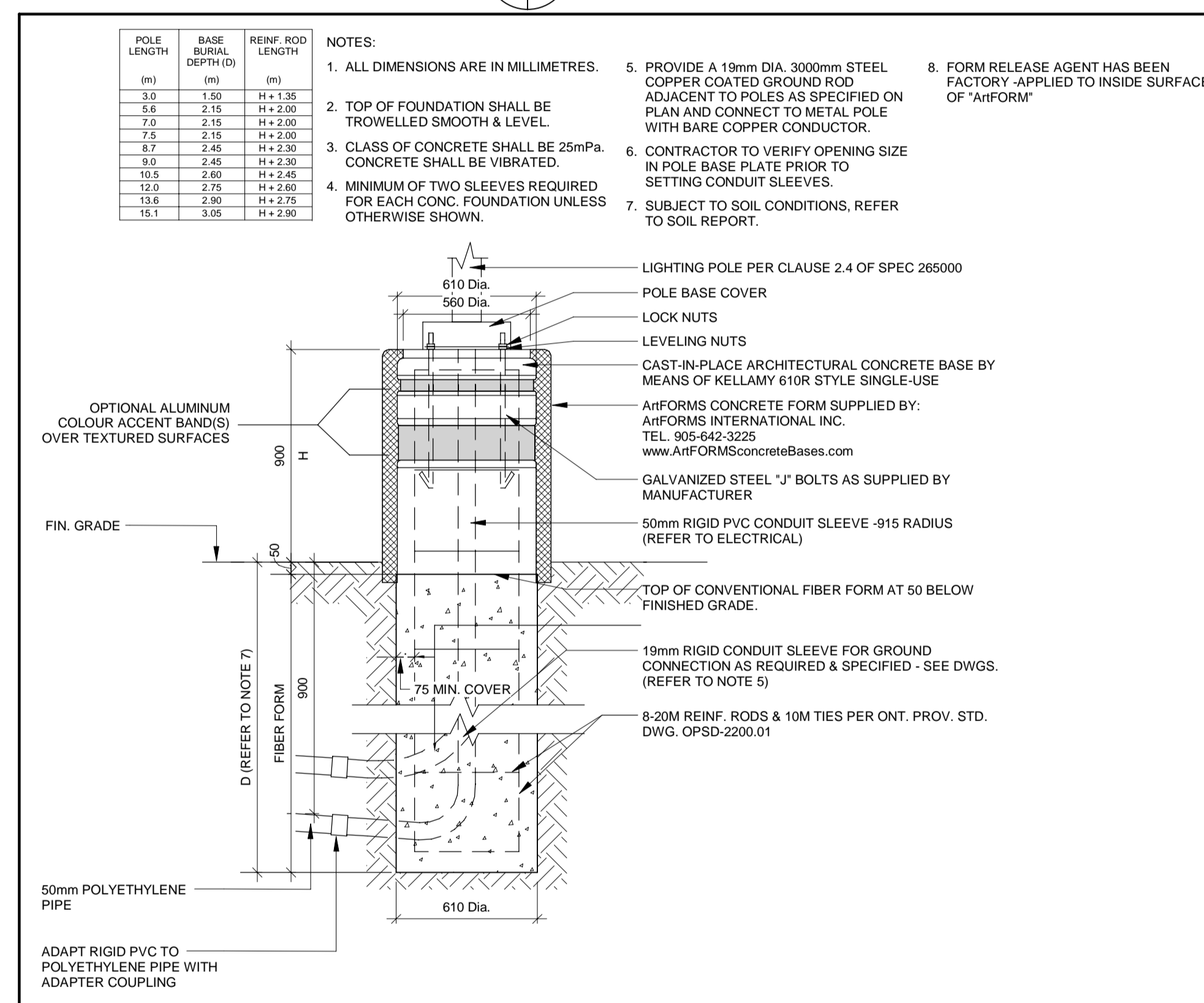
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E-105 N.T.S.



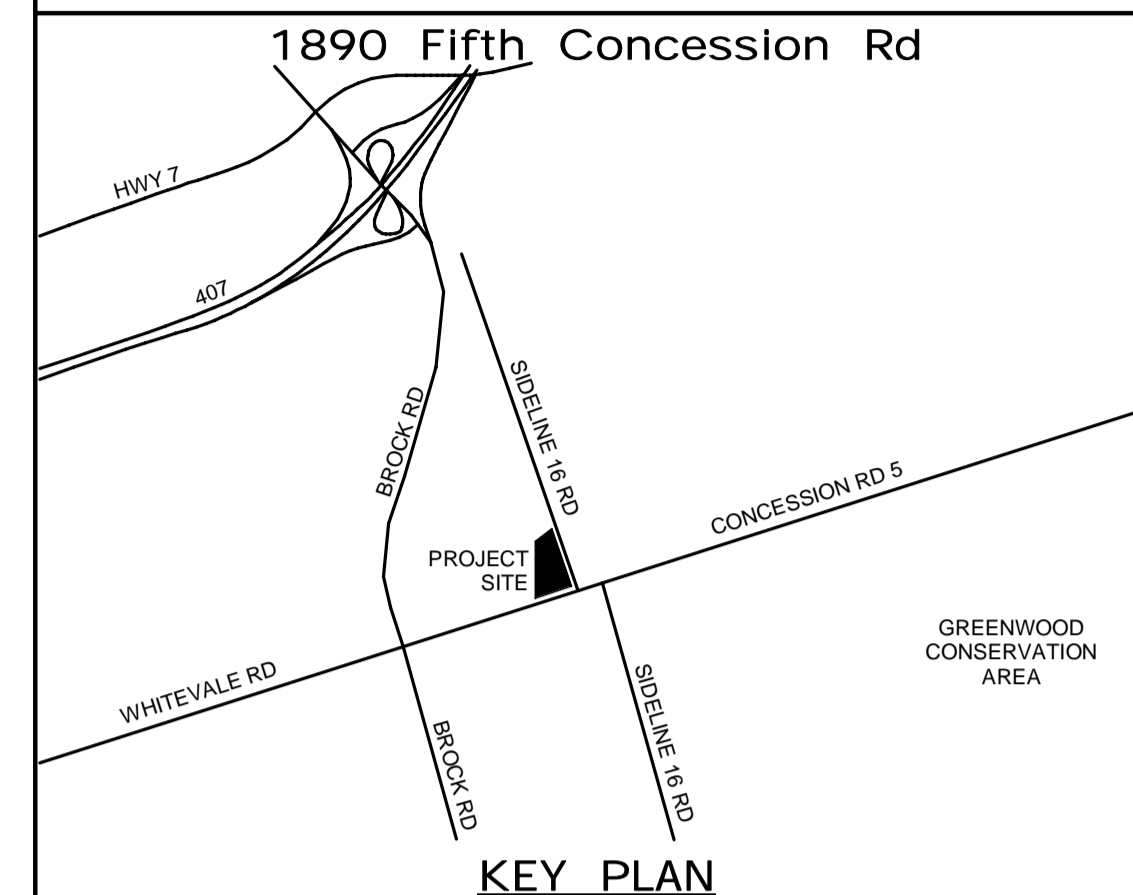
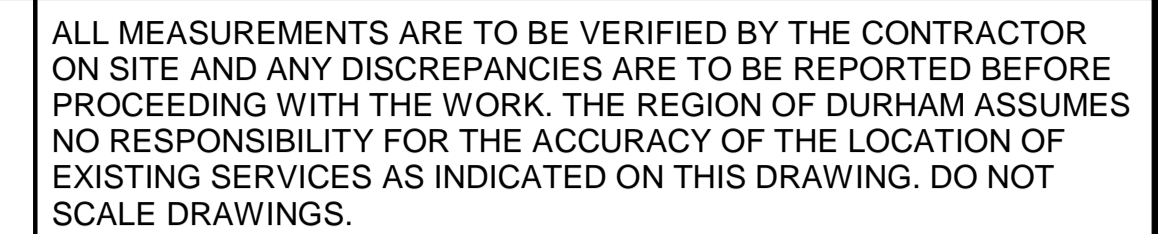
2 EV - DIRECT BURIED
E-105 N.T.S.





3 EV - CONCRETE ENCASED
E-105 N.T.S.



4 POLE BASE DETAIL
E-105 N.T.S.



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| <p>PRIME CONSULTANT</p>  <p>AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0K4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p> |  |
| <p>SUB CONSULTANT</p> | |

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| DESIGN BY: GR | SCALE: N.T.S. |
| DRAWN BY: HD | DATE: 06/01/21 |
| CHECKED BY: WA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: WA | CLIENT FILE No.: 811/20 |

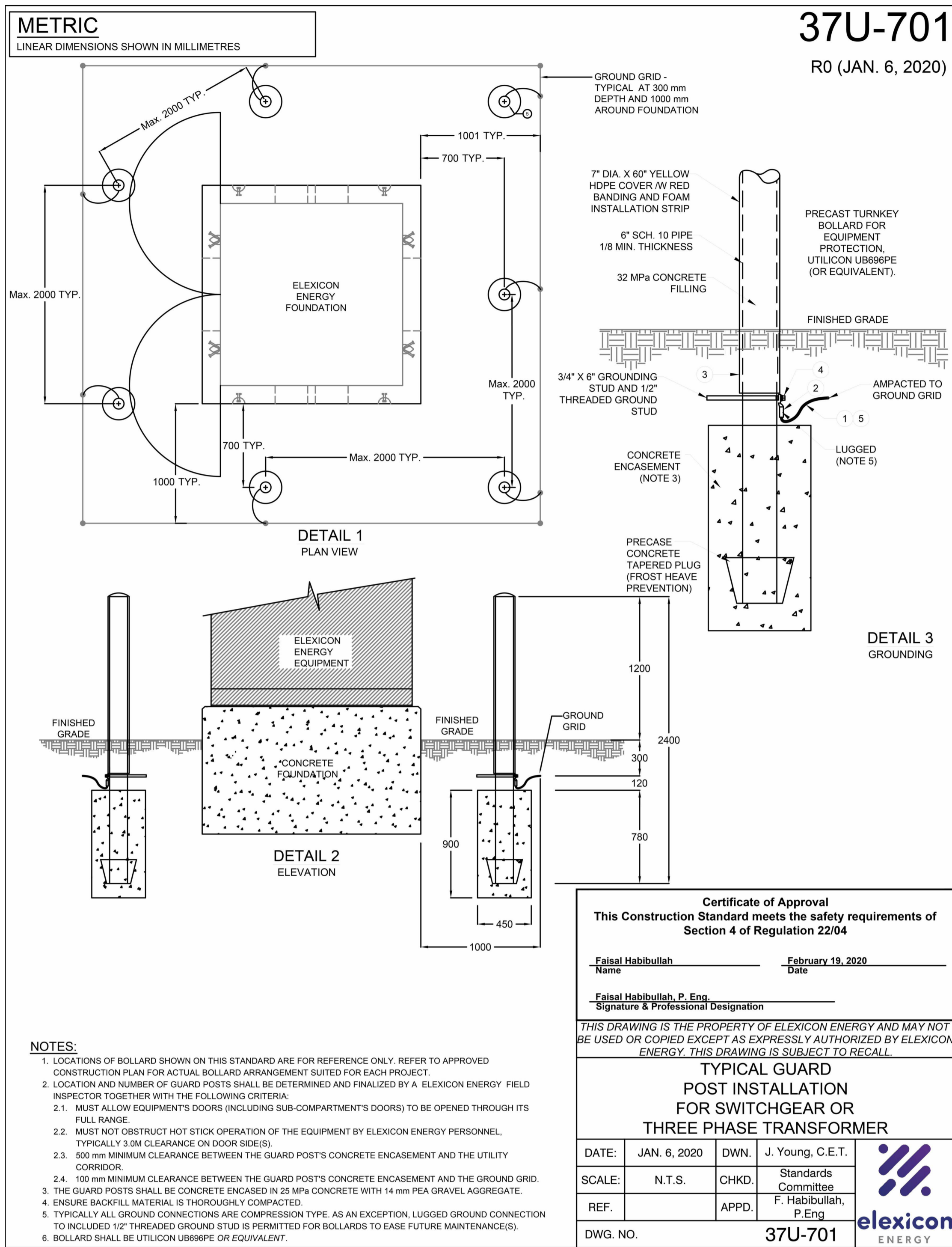
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| | 3 | 03/14/2022 | | ISSUED FOR CONSTRUCTION |
| | 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| | 1 | 09/22/21 | | ISSUED FOR TENDER |
| | NO | DATE | NAME | REVISIONS |



THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL SITE DETAILS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 105 | SHEET NO. |



CONCRETE ENCASED DUCT BANK REQUIREMENTS

37U-600
R0 (JAN. 6, 2020)

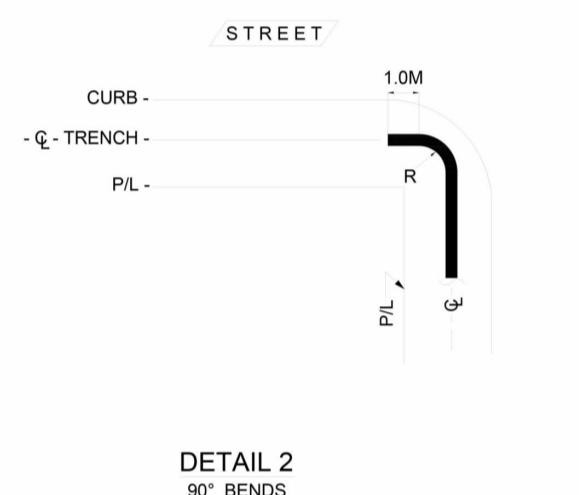
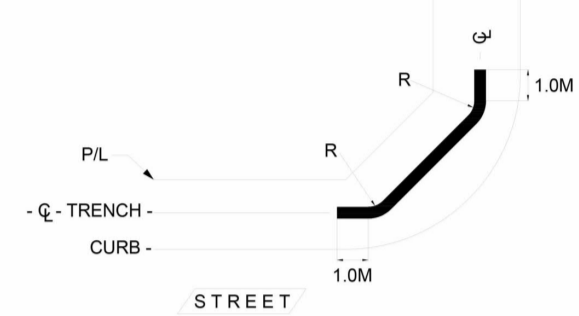
1. DESIGN CONSIDERATIONS:

- 1.1. UNLESS OTHERWISE SPECIFIED ON THE DESIGN DRAWINGS, BENDS AND TURNS IN DUCT RUN SHALL BE ACCOMPLISHED WITH A GRADUAL SWEEP. ALL 90 DEGREE CHANGES IN DIRECTION SHALL BE MADE OF APPROPRIATE ELBOWS. MINIMUM RADIUS ELBOW FOR MAIN FEEDER CABLES (500MCM-1000MCM) SHALL BE 1.5m (60"). MINIMUM RADIUS ELBOW FOR (1/0 AWG) SHALL BE 0.91m (36"). SEE FIGURE 1 FOR DETAILS.
- 1.2. DUCT BANKS SHALL BE BURIED WITH A MINIMUM COVER OF 1000 mm, WITH THE EXCEPTION OF ROAD CROSSINGS WHICH SHALL BE BURIED WITH A MINIMUM COVER OF 1200 mm (UNLESS OTHERWISE SPECIFIED IN THE DESIGN DRAWINGS). TRENCH RESTORATION SHALL BE MADE UP OF CLEAN BACKFILL ON DUCT BANKS INSTALLED UNDER LAWNS AND PARKWAYS. DUCT BANKS ALONG BOULEVARDS OR ACROSS ROADS SHALL HAVE BACKFILL MATERIALS AND TRENCH RESTORATION TO CONFORM WITH THE MUNICIPAL OR REGIONAL AUTHORITY, AS REQUIRED.
- 1.3. PULLING TENSION CALCULATIONS ARE REQUIRED AND PULLING TENSION SHALL BE RECORDED DURING INSTALLATION AND SUBMITTED TO ELEXICON ENERGY REPRESENTATIVE.
- 1.4. PROPER LUBRICATION FOR CABLE PULLING IS REQUIRED.
- 1.5. CUSTOMER'S DUCT BANK SHALL HAVE A MINIMUM SLOPE OF 1% AWAY FROM THE BUILDING. CONSULT ELEXICON ENERGY INSPECTOR WHERE THE ABOVE REQUIREMENT CANNOT BE MET. (i.e. FRENCH DRAIN REQUIRED).
- 1.6. REFER TO ENGINEERING DESIGN DRAWINGS FOR CONSIDERATION OF INSTALLING SCADA, COMMUNICATION & LOW VOLTAGE SUPPLY DUCTS.
- 1.7. CONFIGURATIONS NOT COVERED BY STANDARDS 37U-600 SERIES SHALL BE ARRANGED IN A SIMILAR MANNER TO THESE STANDARDS AND SUBJECT TO ELEXICON ENERGY APPROVAL.

FIGURE 1

| MINIMUM BENDING RADIUS (R) OF PRIMARY CABLES | | |
|--|-------------------|---------------|
| SIZE OF CABLE | ON TIGHT LOCATION | PREFERRED |
| 500 TO 1000 kcmil CABLES | 1524 mm (60") | 1524 mm (60") |
| 1/0 AWG CABLES | 910 mm (36") | |

* SUBJECT TO ELEXICON ENERGY APPROVAL AND INSPECTION.



2. DUCT BANK CONSTRUCTION:

- 2.1. THE DUCT SHALL BE 100mm (4") DIAMETER, RED, PVC TYPE DB2/ES2 (SOLID WALL ONLY) C/W BELL END AND BE APPROVED AS PER CSA STANDARD C22.3 (LATEST REVISION) AND ELEXICON ENERGY STANDARD.
 - 2.1.1. FOR CABLE SIZES 750 MCM AND UP, THE DUCT SIZE SHALL BE 150mm (6").
- 2.2. ALL FITTINGS AND BENDS SHALL BE PVC TYPE DB2/ES2. APPROVED SOLVENT CEMENT SHALL BE USED TO JOIN ALL DUCTS AND SHOULD BE APPLIED AT A MINIMUM OF 30 MINUTES PRIOR TO POURING CONCRETE.
- 2.3. ALL DUCTS AT THE FACE OF THE DUCT BANK SHALL BE ORIENTED AND TERMINATED WITH EITHER BELL END SUPPORTING CABLES OR PLUGS FOR SPARE DUCTS AS PER ELEXICON ENERGY STANDARD 37U-610 & 37U-611.
- 2.4. DUCTS SHALL BE SUPPORTED WITH SPACERS EVERY 1.5m (5') OR NOT GREATER THAN 2.0m (6.5') AND BE ANCHORED SO AS NOT TO FLOAT DURING CONCRETE POURING.
- 2.5. ALL DUCT BANKS SHALL BE REINFORCED WITH NON PRE-STRESSED 20 mm (3/4") DEFORMED STEEL REINFORCING BARS - GRADE 400 AND CONFORM TO CSA G30.12 (LATEST REVISION). STEEL REINFORCING BARS SHALL BE INSTALLED CONTINUOUSLY, MINIMUM 300 mm OVERLAPPED AND TIED, AND BE LOCATED AT THE BOTTOM OF THE DUCT BANK AS PER ELEXICON ENERGY STANDARD 37U-601 TO 37U-608.
- 2.6. SECURE AND PREVENT DUCTS FROM MOVING DURING CONCRETE POURING BY INSTALLING NON METALLIC BANDING EVERY 3.0m OF DUCT. WHERE DUCT BANK ARE TO BE EXTENDED IN FUTURE, STEEL REINFORCING BARS SHALL EXTEND BEYOND CONCRETE ENCASEMENT. REINFORCING BARS SHALL BE CONTINUOUS WHEN DUCT BANK IS EXTENDED.
- 2.7. DUCTS SHALL BE ENCASED IN 25MPa CONCRETE WITH 10 mm PEA GRAVEL AGGREGATE. SLUMP MUST NOT EXCEED 100 mm (4") UNDER STANDARD SLUMP TEST. EARTH BENEATH DUCT BANK SHALL BE THOROUGHLY COMPACTED PRIOR TO DUCT BANK INSTALLATION TO ELIMINATE SETTLING OF FINISHED DUCT BANK.
- 2.8. ALL DUCTS SHALL BE MANDRELLED AND CLEANED AFTER DUCT BANK INSTALLATION.
- 2.9. ALL DUCTS SHALL BE EQUIPPED WITH 10 mm (3/8") DIAMETER POLYPROPYLENE ROPE AND SHALL HAVE THE ENDS SEALED IMMEDIATELY AFTER INSTALLATION.
- 2.10. END OF DUCT BANK AND ROAD CROSSING SHALL BE MARKED WITH AN ELECTRONIC MARKER AS PER ELEXICON STANDARD 37U-610 & 37U-611.

3. CUSTOMER OBLIGATIONS:

- 3.1. CUSTOMER'S DUCT BANK INSTALLATION SHALL BE SUBJECT TO ELEXICON ENERGY INSPECTION AND ACCEPTANCE PRIOR TO POURING OF CONCRETE OR ANY BACKFILL MATERIAL, OR WILL NOT BE ACCEPTED. CUSTOMER SHALL CONTACT ELEXICON ENERGY INSPECTION DEPARTMENT TO ARRANGE FOR INSPECTION 48 HOURS IN ADVANCE OF POURING CONCRETE.
- 3.2. THE CUSTOMER SHALL FOLLOW DIRECTIONS GIVEN BY THE ELEXICON ENERGY INSPECTOR FOR ANY SITUATION NOT COVERED IN THIS SPECIFICATION.
- 3.3. DUCTS SHALL BE PROBED PRIOR TO CABLE INSTALLATION. CABLE SHALL NOT BE INSTALLED IN DUCT WHICH DOES NOT ALLOW PASSAGE OF A TEST MANDREL SIZED TO 95 % OF THE DIAMETER OF THE PVC TYPE DB2/ES2 DUCT.
- 3.4. LANDSCAPING, PAVING AND CURBS SHALL NOT BE COMPLETED UNTIL DISTRIBUTOR'S CABLE INSTALLATION IS COMPLETE. OTHERWISE, ALL RESTORATION SHALL BE DONE BY THE CUSTOMER AT THEIR OWN EXPENSE.

Certificate of Approval
This Construction Standard meets the safety requirements of Section 4 of Regulation 22/04

Faisal Habibullah
Name
February 19, 2020
Date

Faisal Habibullah, P. Eng.
Signature & Professional Designation

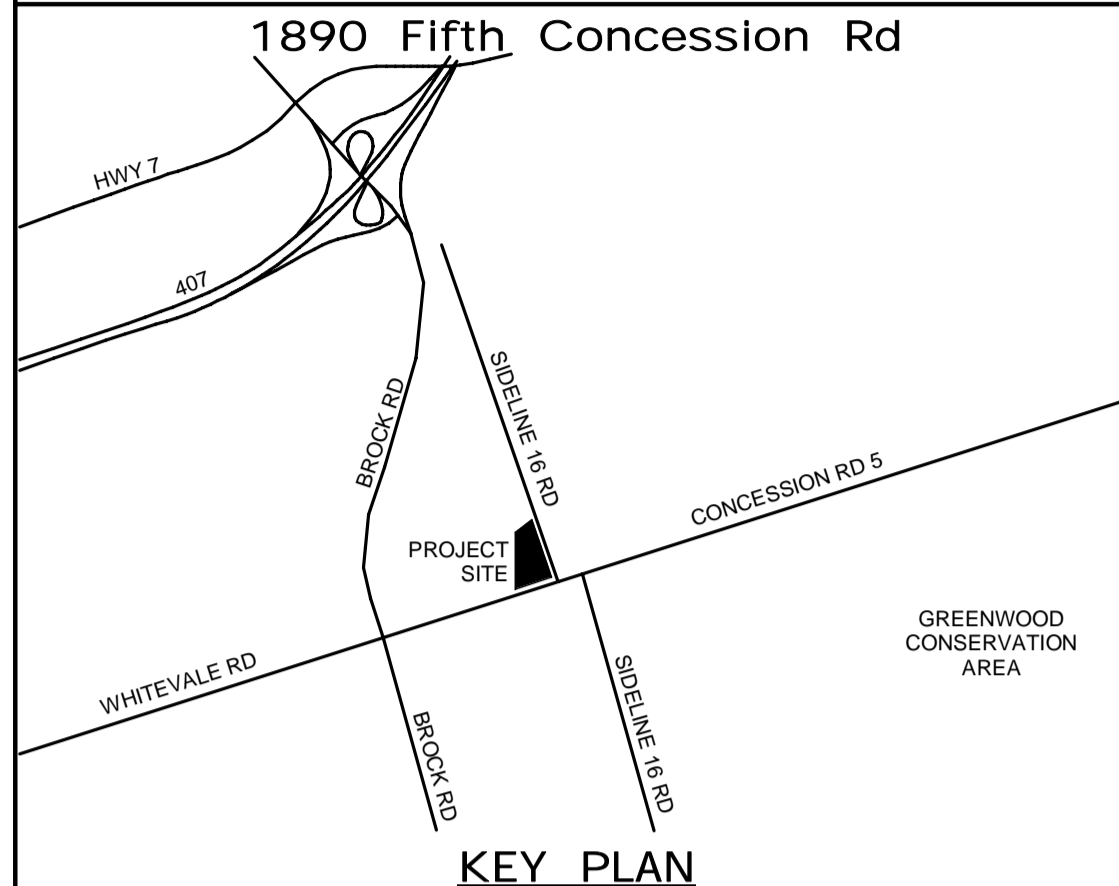
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CONCRETE ENCASED DUCT BANK REQUIREMENTS

| | | | | |
|----------|--------------|-------|-----------------------|---|
| DATE: | JAN. 6, 2020 | DWN. | J. Young, C.E.T. |  |
| SCALE: | N.T.S. | CHKD. | Standards Committee | |
| REF. | | APPD. | F. Habibullah, P.Eng. | |
| DWG. NO. | 37U-600 | | | |



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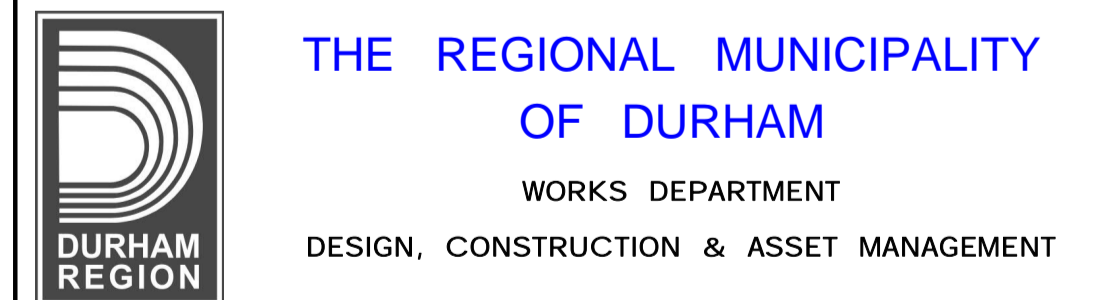
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| DESIGN BY: | GR | SCALE: | N.T.S. |
| DRAWN BY: | HD | DATE: | 05/27/21 |
| CHECKED BY: | WA | CONSULTANT PROJECT NO. | 60611569 |
| APPROVED BY: | WA | CLIENT FILE No.: | 811/20 |

| CONTRACT REVISIONS | | | |
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NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL SITE DETAILS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. |
| CONTRACT NO. | DRAWING NO. | SHEET NO. |
| T- 1160- 2021 | E- 107 | PO61- 18- 01 |

LINEAR DIMENSIONS SHOWN IN MILLIMETRES

R0 (JAN. 6, 2020)

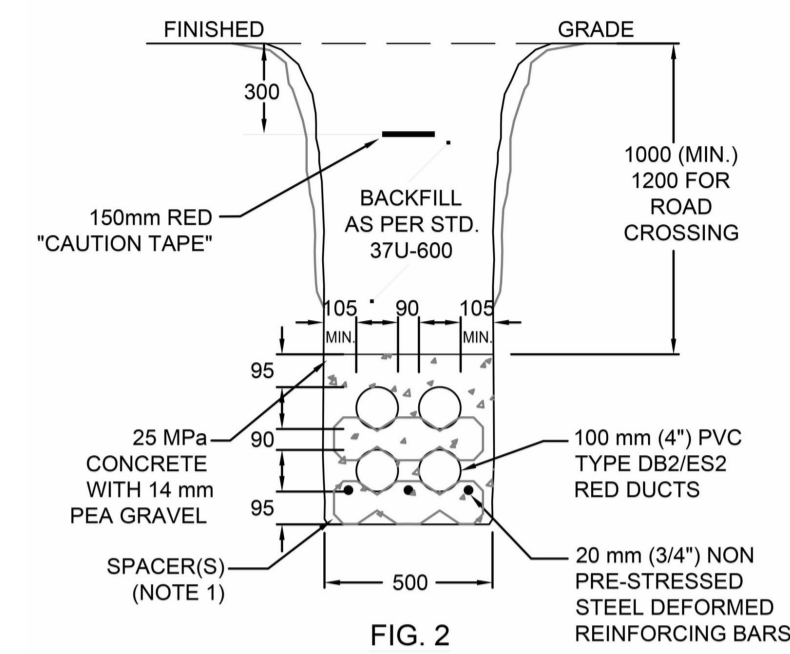


FIG. 2

1. REFER TO STANDARD 37-600 FOR CONCRETE ENCASED DUCT BANK REQUIREMENTS.
2. THE TRENCH SHALL BE EXCAVATED TO SUFFICIENT DEPTH AND WIDTH TO ACCOMMODATE THE REQUIRED NUMBER OF DUCTS AND SHOULD PROVIDE A MINIMUM COVER AS SPECIFIED ON STANDARD 37-600.0 AND SHALL BE PROTECTED BY MOVING CONCRETE POURING CURBS INSTALLED NON METALLIC BANDING EVERY 3.0m OF DUCT. THE TRENCH BOTTOM AND BACKFILL SHALL BE FREE OF STONES, HARD EARTH AND DEBRIS.
3. ALL TRENCHES MUST BE PROPERLY COMPACTED IN ORDER TO PREVENT FUTURE SETTLEMENT IN ACCORDANCE WITH NORMAL CONSTRUCTION PRACTICES.
4. DUCT BANK SHALL RUN AT A SPECIFIED DISTANCE AS PER STANDARD 37U-100 FROM DESIGNATED HYDRO PLO SUPPLY POINT.
5. DUCT BANK SHALL HAVE AN EVEN SLOPE, TOWARD STREET, OF NOT LESS THAN 75mm IN 30m FOR DRAINAGE.
6. ALTERNATIVE CONFIGURATION OF DUCTS NOT SHOWN ON THIS STANDARD SHALL BE SPECIFIED BY ELEXICON ENERGY AND IS SUBJECT TO ENGINEERING APPROVAL.
7. WHEN THE DUCT INSTALLATION IS COMPLETE, THE DUCTS ARE TO BE LEFT CLEAN, WATERPROOF AND FREE FROM OBSTRUCTIONS WITH THE ENDS PLUGGED WITH STANDARD PLASTIC DUCT PLUGS TO PREVENT THE INGRESS OF DEBRIS AND WATER.
8. THE DUCTS SHALL BE TESTED FOR CLEARANCE WITH A 90mm (3 1/2") DIAMETER MANDEL IN THE PRESENCE OF A ELEXICON INSPECTOR. THIS MANDEL WILL BE SUPPLIED BY ELEXICON ENERGY UPON REQUEST. A 10mm POLYPROPYLENE PULLING ROPE IS TO BE INSTALLED ON EACH DUCT. THE DUCTS ARE THEN TO BE SEALED UNTIL THEIR USE IS REQUIRED.

Faisal Habibullah February 19, 2020


Name _____ Date _____

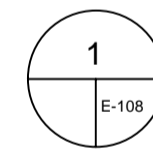
Faisal Habibullah, P. Eng.
Signature & Professional Designation

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TYPICAL ARRANGEMENT FOR DUCTS
ENCASED IN CONCRETE
FOR 4, 5 & 6 DUCTS

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| DATE: | JAN. 6, 2020 | DWN. | J. Young, C.E.T. |
| SCALE: | N.T.S. | CHKD. | Standards Committee |
| REF. | | APPD. | F. Habibullah, P.Eng |
| DWG. NO. | 37U-602 | | |

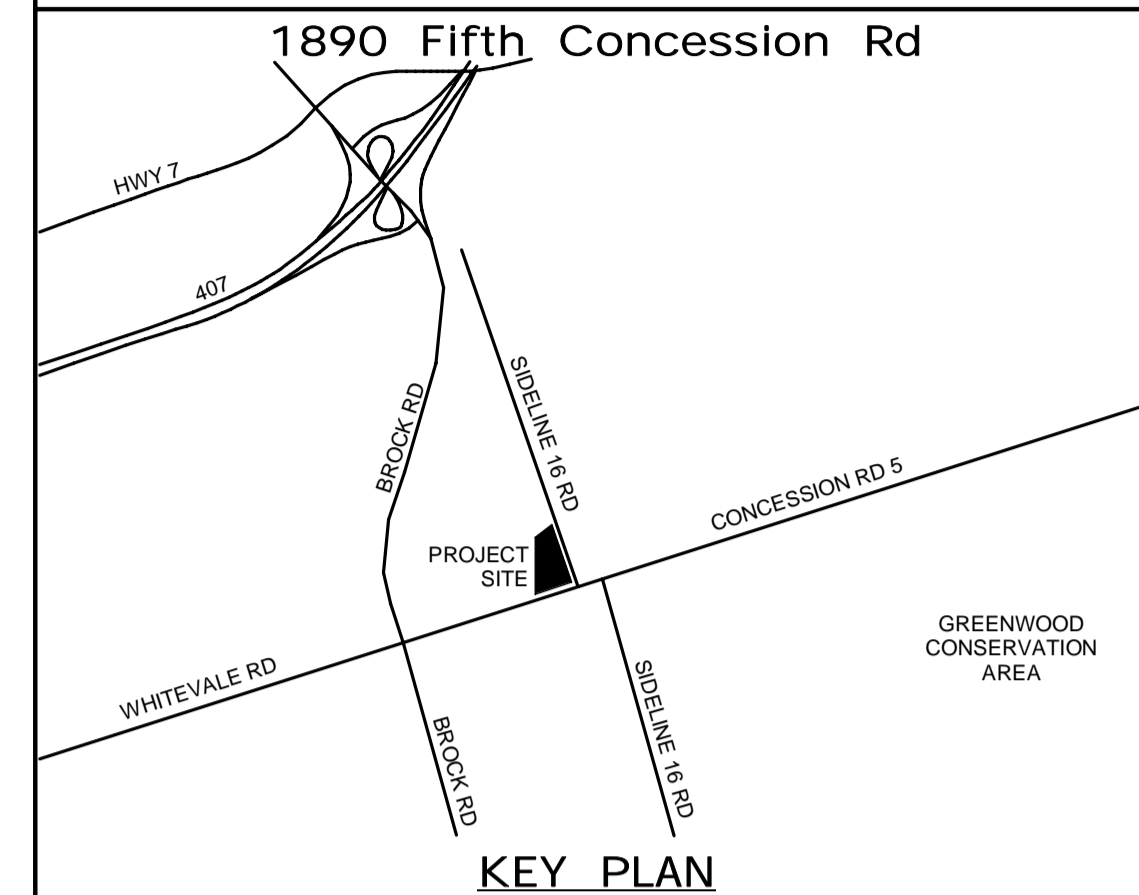




UTILITY PRIMARY CONCRETE ENCASED DUCT BANK

N.T.S

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| | 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
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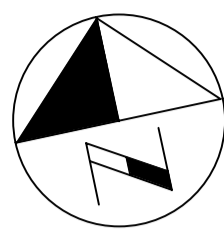


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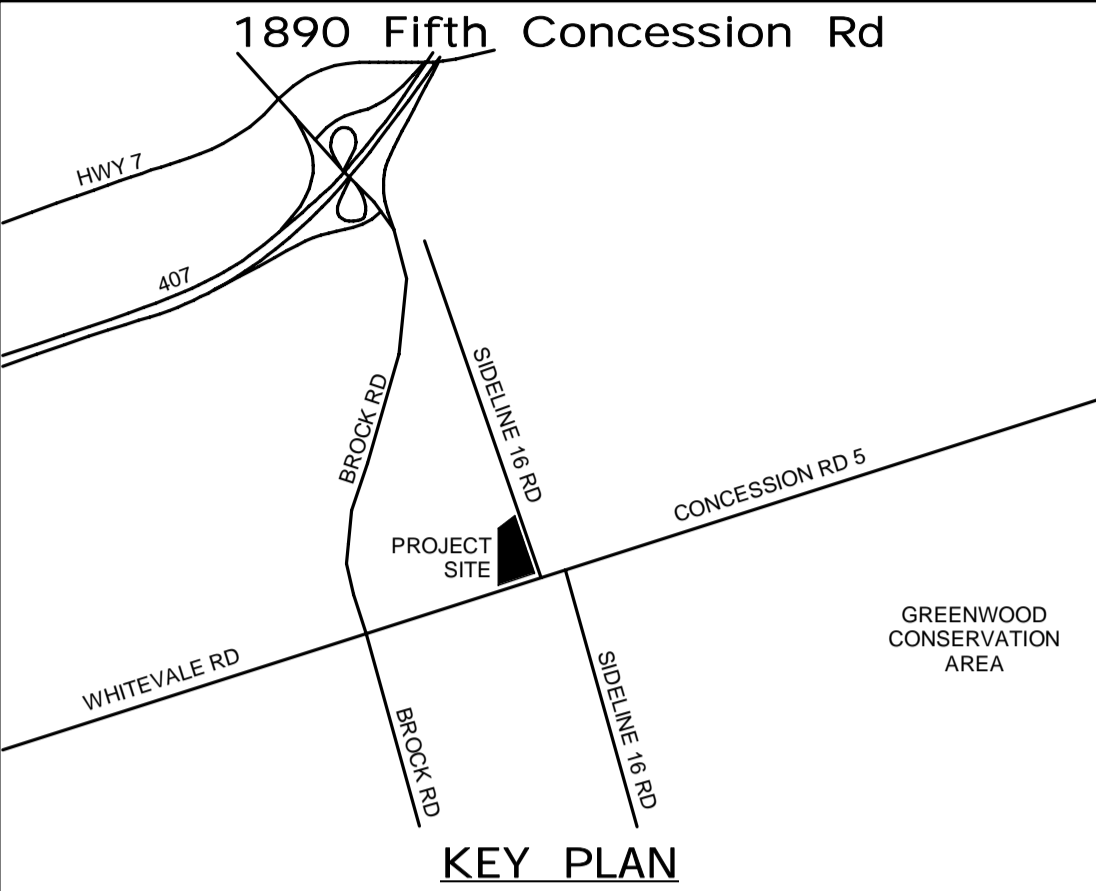
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL SITE DETAILS

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 108 | SHEET NO. |



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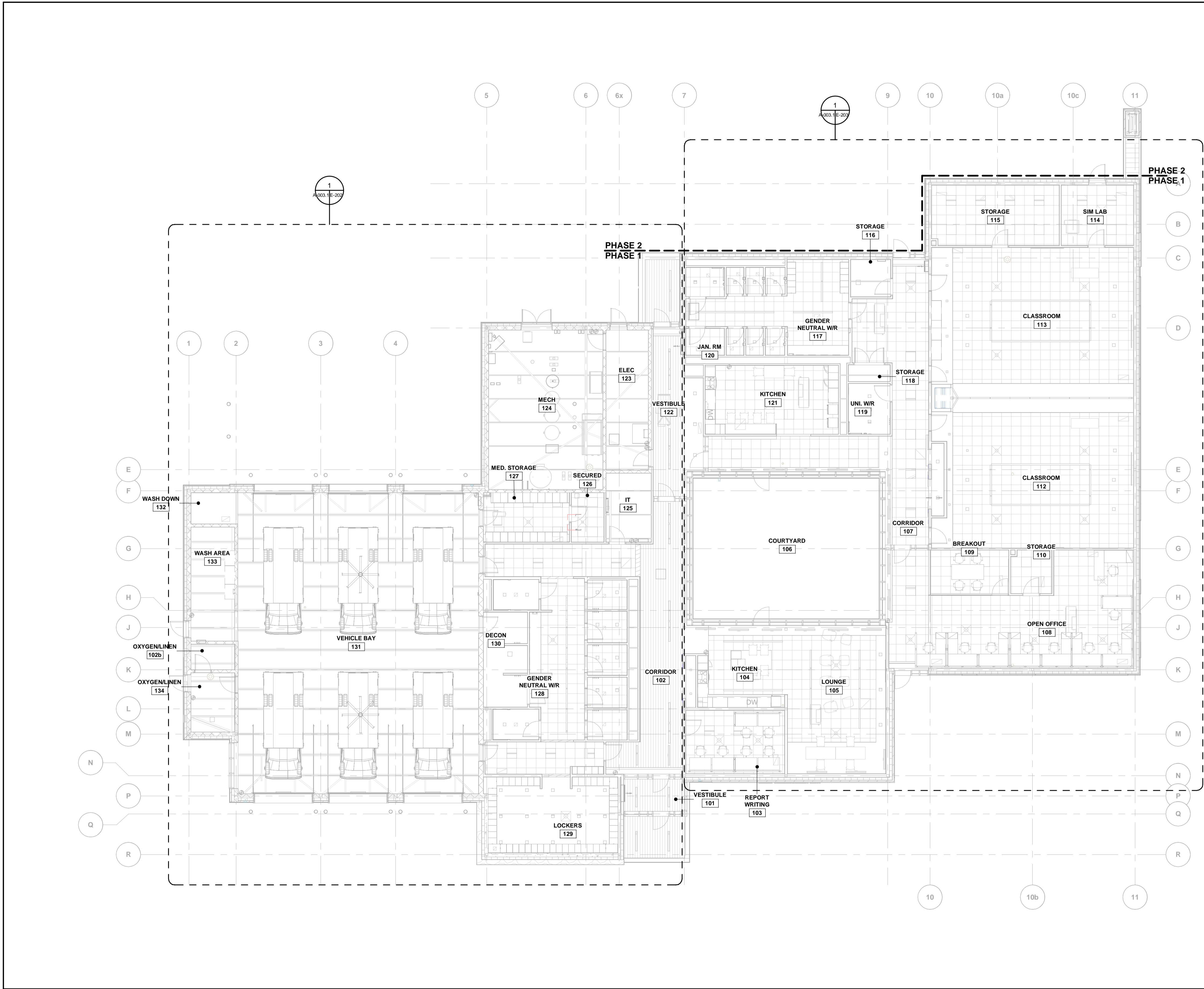
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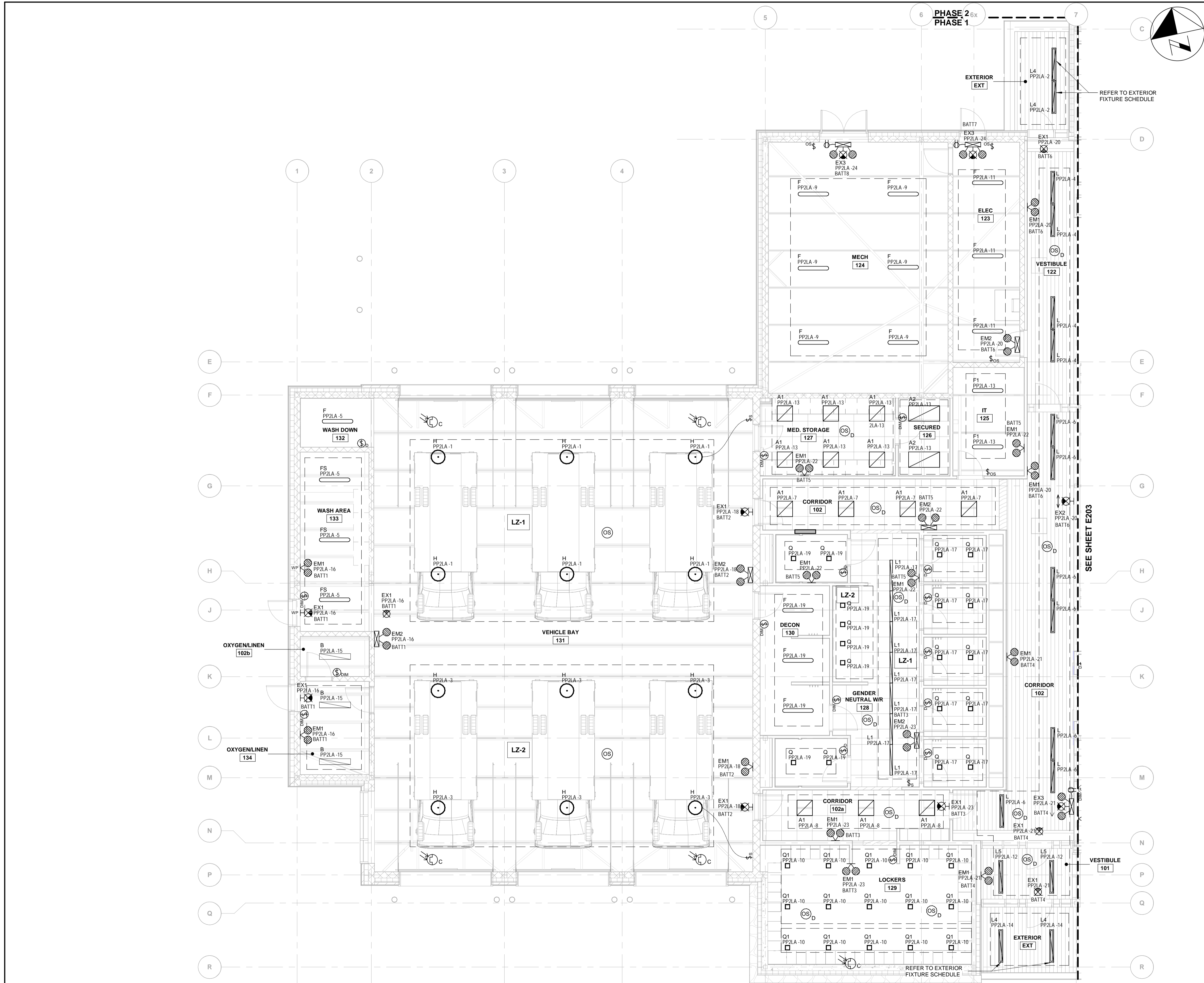
NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
OVERALL LIGHTING PLAN

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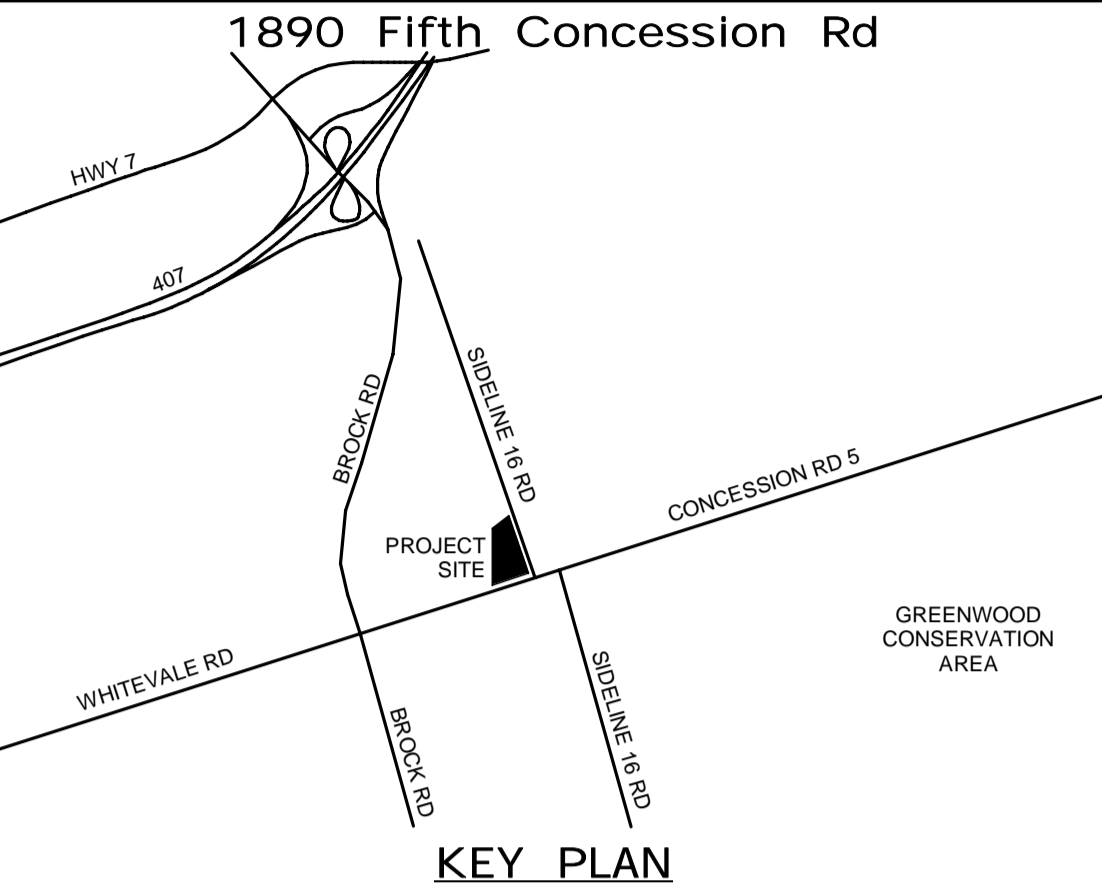


1 OVERALL LIGHTING PLAN - GROUND FLOOR
A-003.1 E-201 1 : 125

BIM 300/JBP-AMER (CAN) 60611569-Station RDP5-A.rvt



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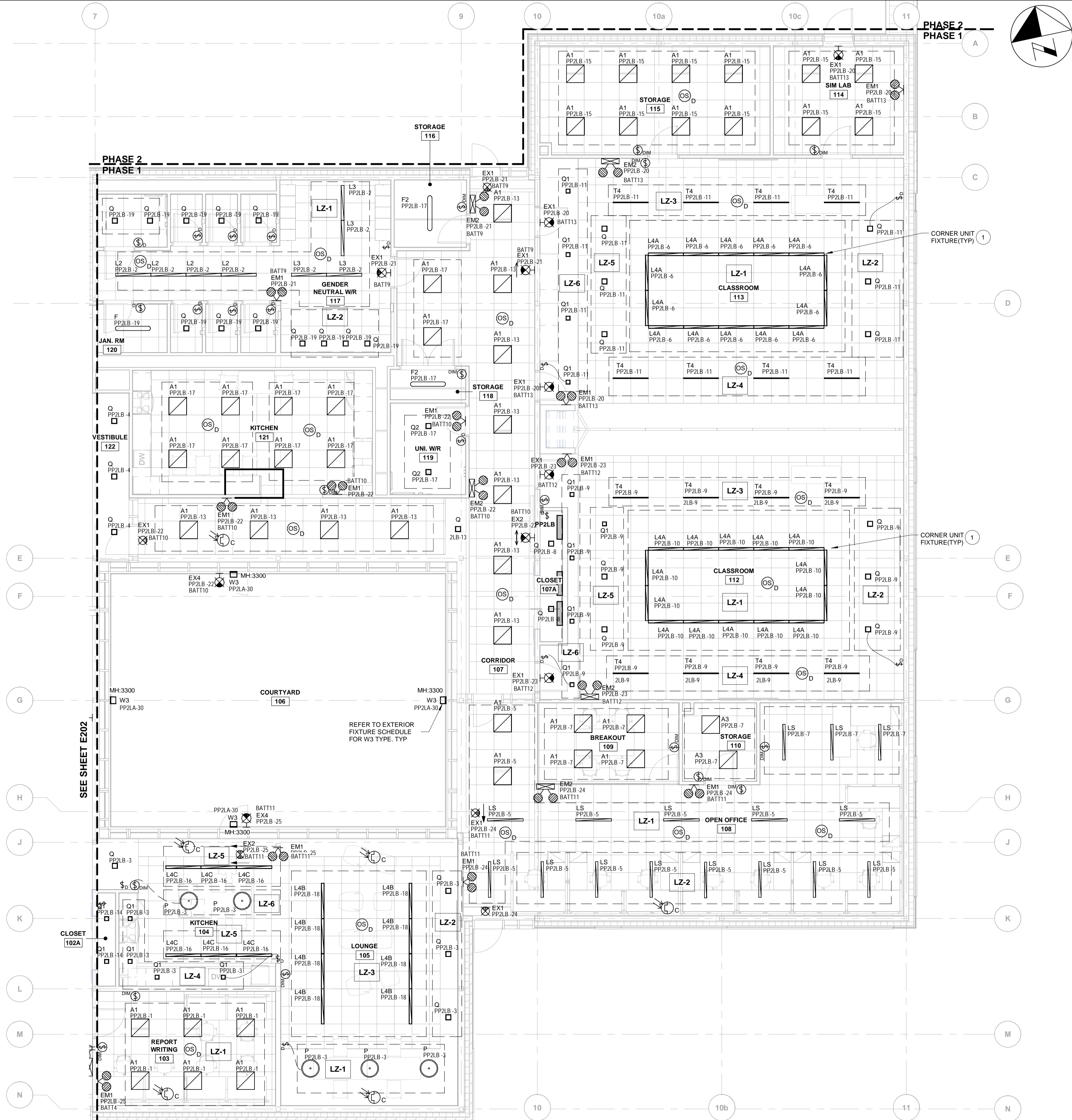
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ENLARGED PARTIAL LIGHTING PLAN SHEET 1 OF 2

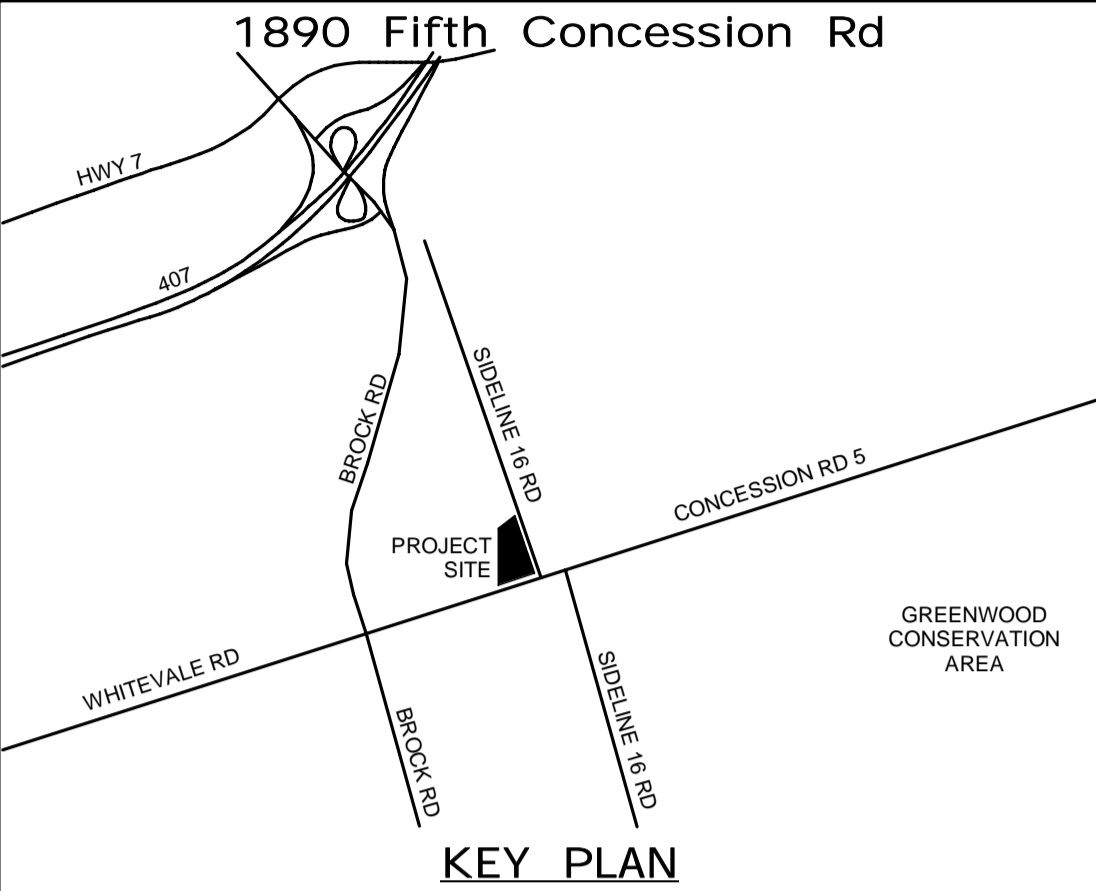
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 202 | SHEET NO. |

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| LIGHTING PLAN KEYNOTE | |
|-----------------------|---|
| NUMBER | KEYNOTE |
| 1 | PROVIDE CORNER TRANSITION FIXTURES TO MAINTAIN CONTINUOUS RUN. LIGHT OUTPUT TO MATCH STRAIGHT SECTIONS OF CONNECTING RUN. |



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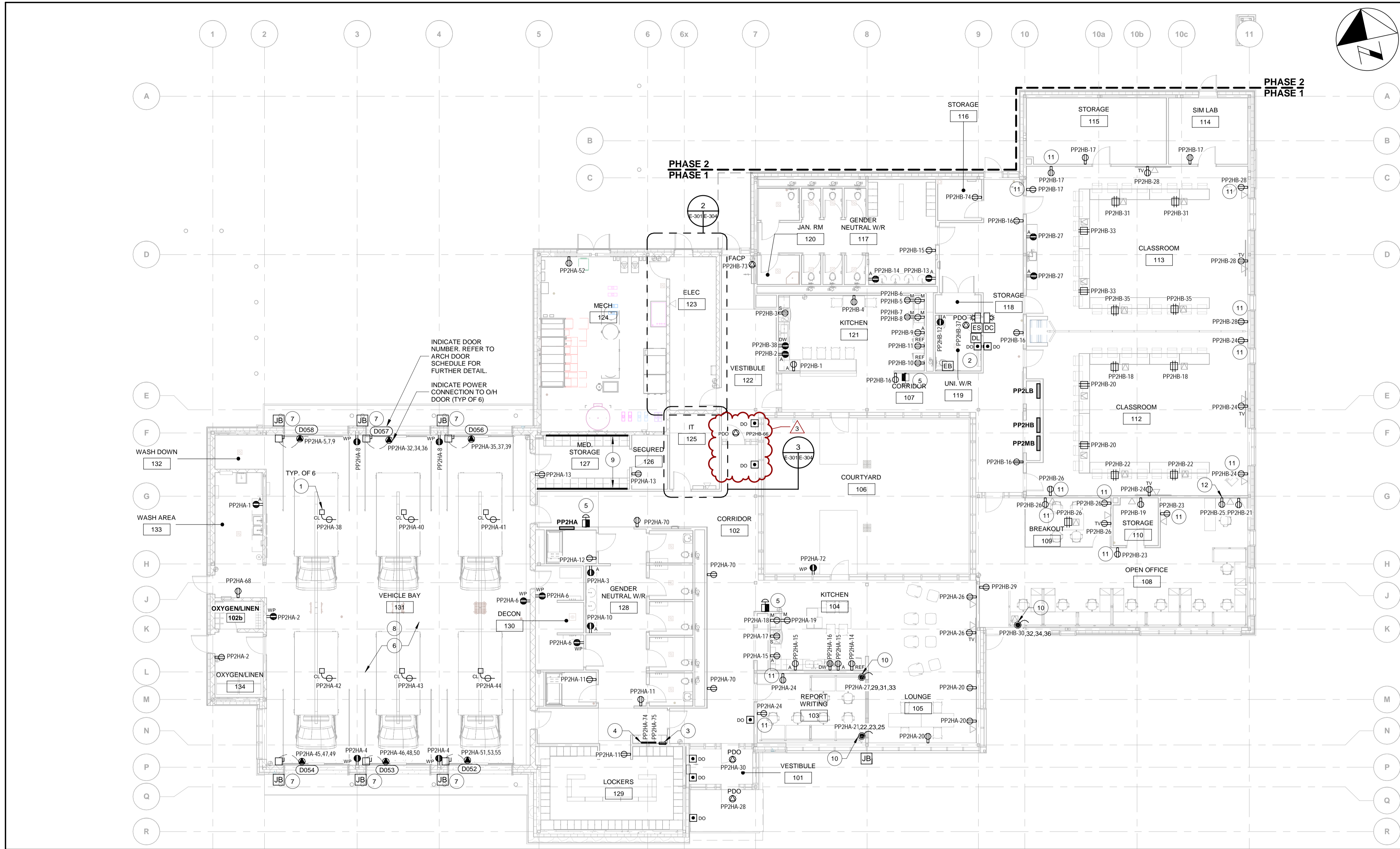
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THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ENLARGED PARTIAL LIGHTING PLAN SHEET 2 OF 2

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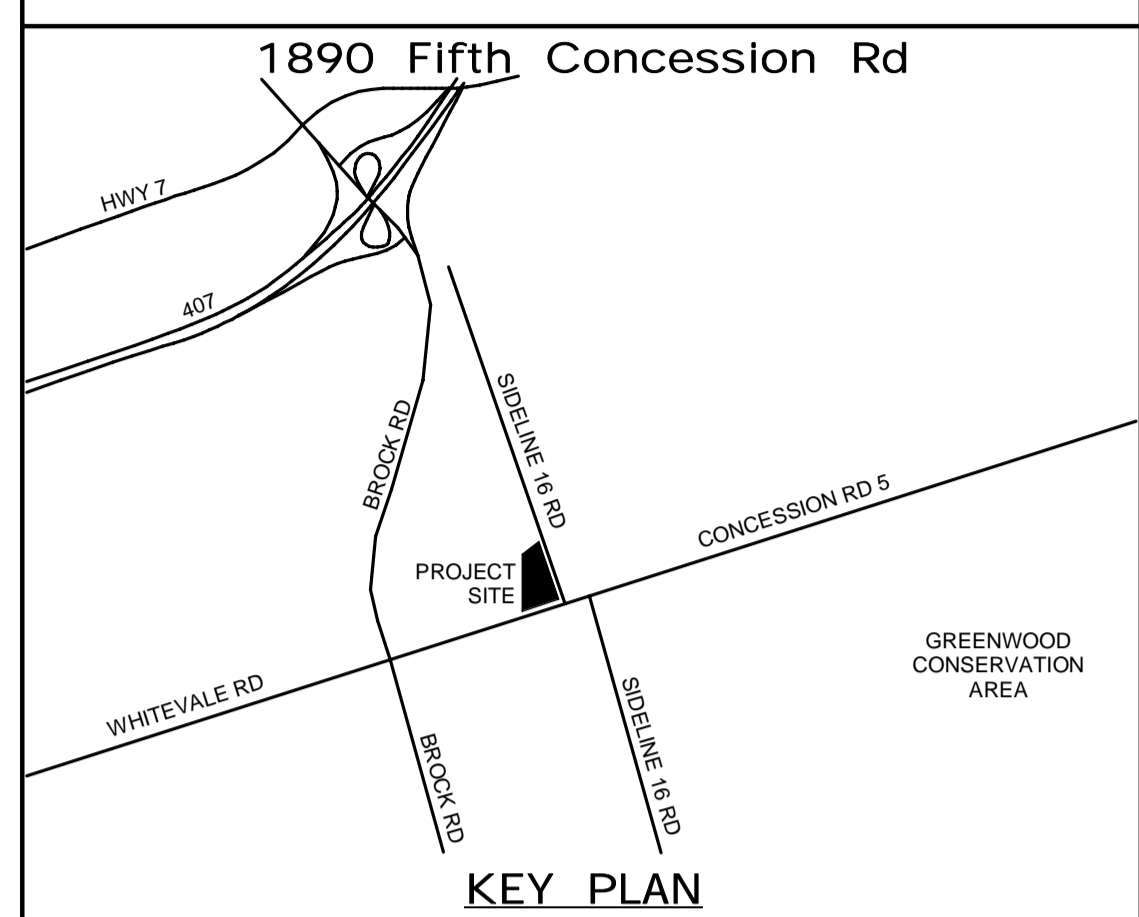


1 POWER PLAN - MAIN FLOOR
A-003.1 E-301 1 : 125

| POWER PLAN KEYNOTES | |
|---------------------|--|
| NUMBER | KEYNOTE |
| 1 | SPECIAL DROP RECEPTACLE ARRANGEMENT SPECIFIC TO EMERGENCY SERVICE AMBULANCES. REFER TO 7/E603 FOR DETAIL. |
| 2 | REFER TO 1/E603 FOR UNIVERSAL WASHROOM DETAIL. |
| 3 | 6-GANG OUTLET BOX C/W PUSH-BUTTONS AND PROVIDE 21mm CONDUIT FOR OVERHEAD DOOR OPERATORS. REFER TO 1/E604 FOR DETAIL. |
| 4 | 2 RACEWAY WITH PLUG IN OUTLETS EQUAL TO LEGRAND RACEWAY 4000 SERIES |
| 5 | EPO TO SHUTDOWN ALL POWER CONNECTIONS AND RECEPTACLES IN THE KITCHEN. REFER TO DETAIL 4 ON DRAWING E604. |
| 6 | SPECIAL DROP RECEPTACLE ARRANGEMENT SPECIFIC TO EMERGENCY SERVICE AMBULANCES. REFER TO 7/E302 FOR DETAIL. |
| 7 | PROVIDE JUNCTION BOX C/W 21mm CONDUIT TO THE DOOR OPERATOR FOR THE PHOTOCELL. EXACT LOCATION TO BE COORDIANTE ON SITE. |
| 8 | ALL DEVICES AND CONDUITS WITHIN VEHICLE BAY SHALL BE WEATHERPROOF TO ALLOW FOR WASHDOWN. |

| POWER PLAN KEYNOTES | |
|---------------------|--|
| NUMBER | KEYNOTE |
| 9 | WALL MOUNTED WIREMOLD RACEWAY EQUAL TO LEGRAND RACEWAY SERIES 4000 (ABOVE COUNTER, TYP.) |
| 10 | SYSTEM FURNITURE SHALL BE WIRED IN 8T CONFIGURATION. REFER TO DETAIL 3 ON DRAWING E602 FOR DETAILS. |
| 11 | RECEPTACLE SHALL BE AUTOMATICALLY CONTROLLED BY LIGHTING CONTROL DEVICE. REFER TO LIGHTING CONTROLS MATRIX FOR MORE DETAILS. |
| 12 | RECEPTACLE SHALL BE MOUNTED 1450mm FROM WALL. COORDINATE WITH SYSTEM FURNITURE SUPPLIER. |

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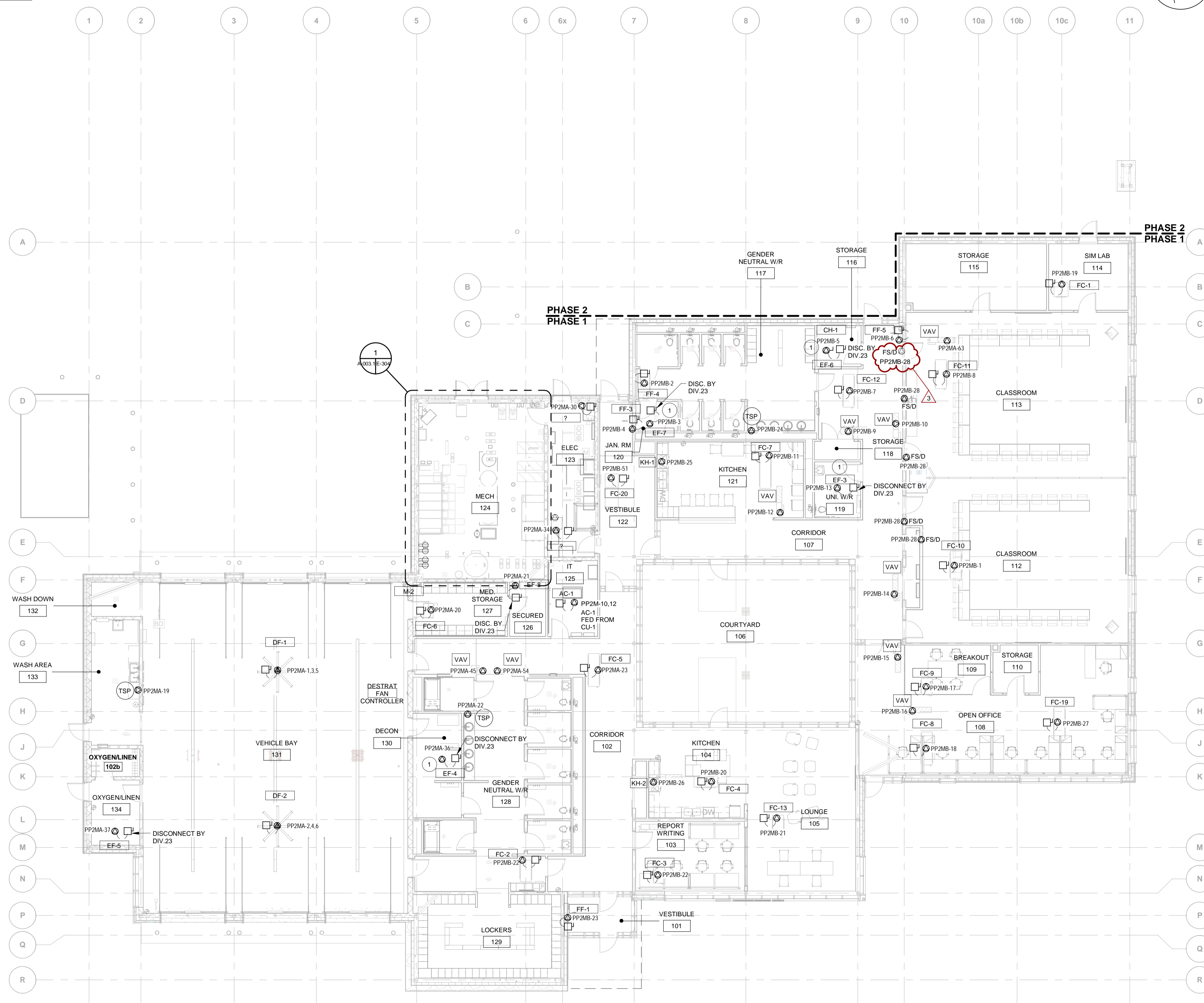
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THE REGIONAL MUNICIPALITY OF DURHAM
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DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING POWER PLAN

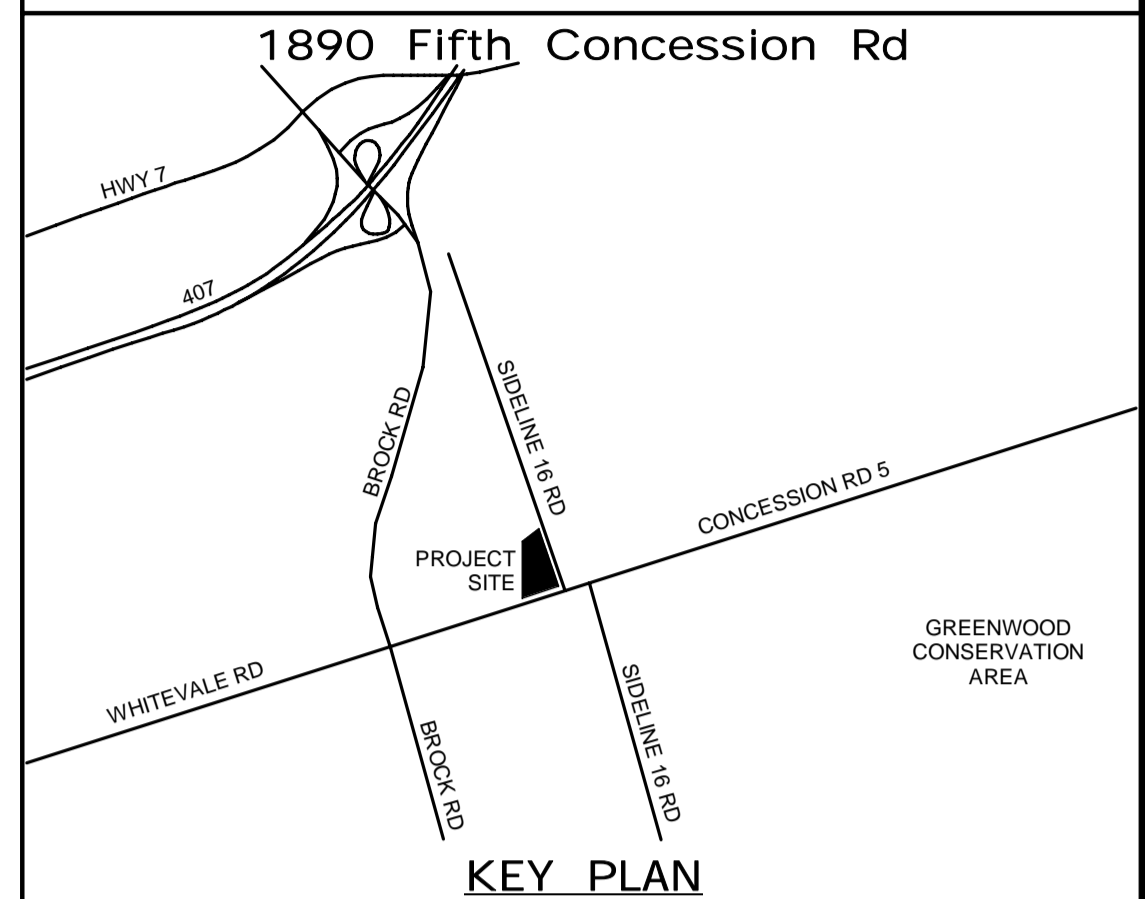
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 301 | SHEET NO. |

| MECHANICAL POWER PLAN KEYNOTES | |
|--------------------------------|--|
| NUMBER | KEYNOTE |
| 1 | THIS LOAD SHALL BE INTERLOCKED WITH LIGHTING CONTROL. REFER TO THE LIGHTING CONTROLS MATRIX FOR FURTHER CLARIFICATION. |



PHASE 2
PHASE 1

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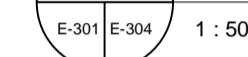
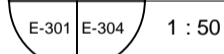
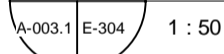
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NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING MECHANICAL POWER PLAN

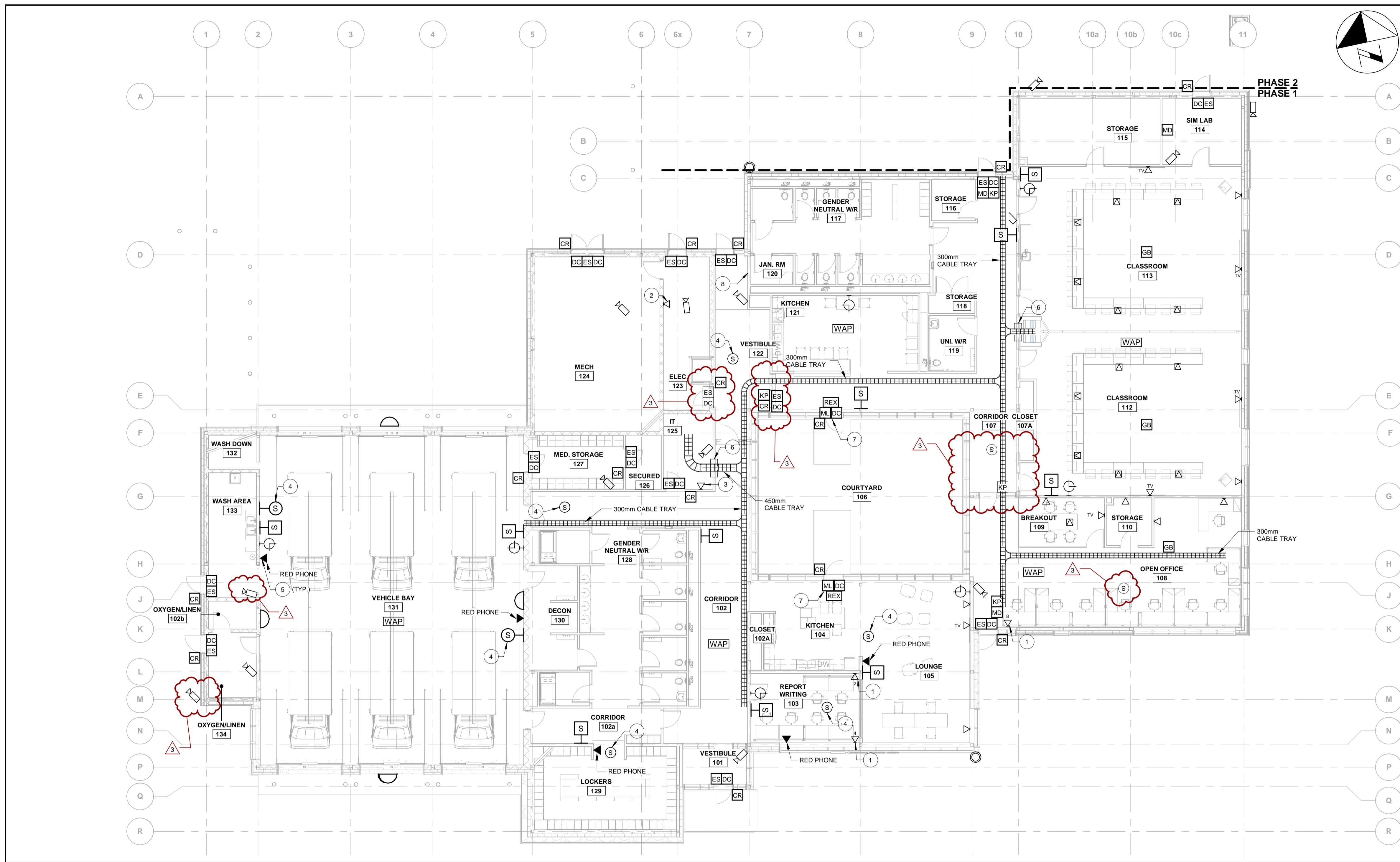
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 302 | SHEET NO. |

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1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TERMINATIONS AND CONNECTIONS FROM VFD TO MOTORS, WHEREVER APPLICABLE.

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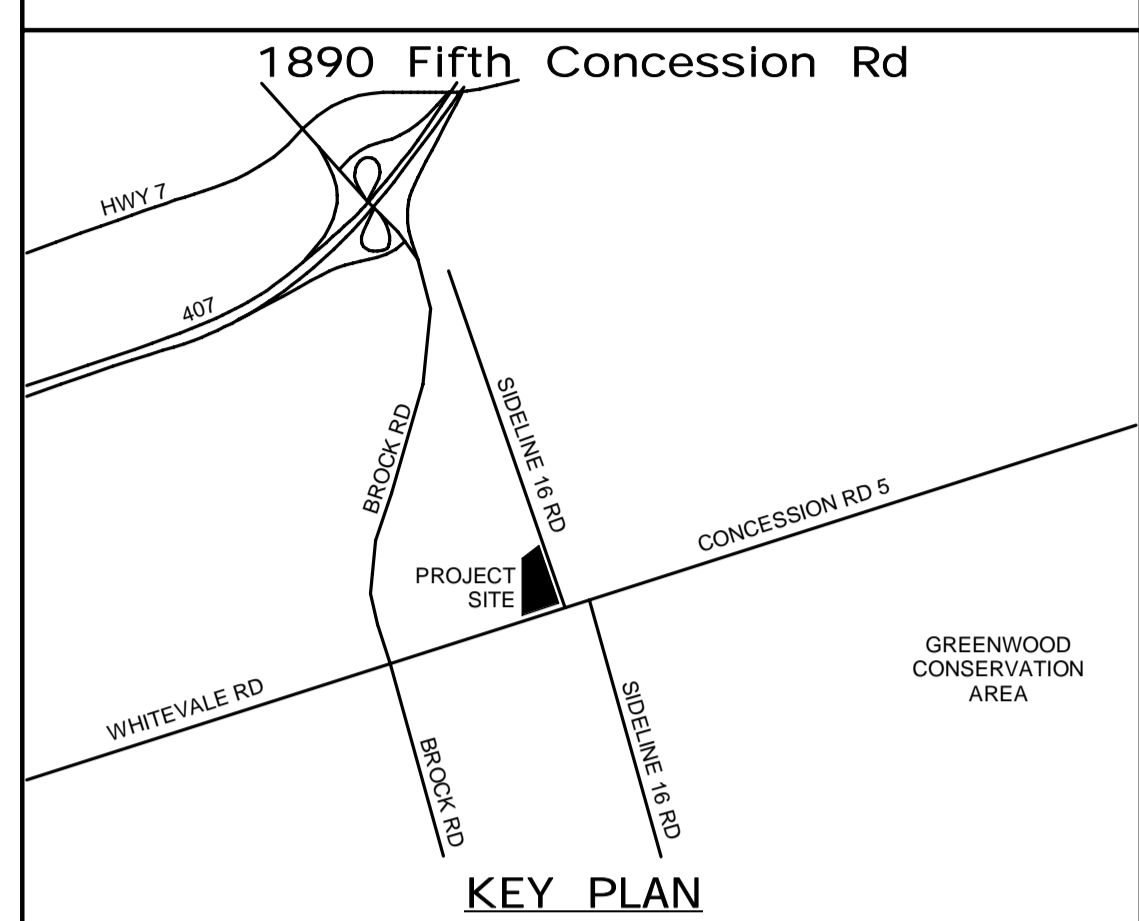


1 SECURITY AND COMMUNICATIONS - MAIN FLOOR
A-003.1 E-401 1 : 125

| SECURITY AND SYSTEMS KEYNOTES | |
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| NUMBER | KEYNOTE |
| 1 | PROVIDE (1) DATA DROP PER SYSTEM FURNITURE. |
| 2 | PROVIDE (1) DATA DROP FOR HYDRO METERING CABINET. |
| 3 | PROVIDE (1) DATA DROP FOR BAS PANEL. |
| 4 | CONTRACTOR SHALL INSTALL MINISTRY OF HEALTH (MOH) SPEAKERS DEDICATED TO THE AMBULANCE BASE PAGING SYSTEM. COORDINATE LOCATION WITH MOH PRIOR TO ROUGH-IN. |
| 5 | REFER TO DETAIL 2 ON E603 FOR DETAILS. |
| 6 | PROVIDE EZ-PATH SERIES 44+ FIRE RATED PATHWAY. |
| 7 | MAGNETIC DOOR LOCK. LOCKS ARE TO BE RELEASED UPON A FIRE CONDITION OR IF LOCAL PULL STATIONS ARE ACTIVATED. REFER TO DETAIL 4 ON DRAWING E602. |
| 8 | MAGLOCK RELEASE SWITCH TO BE LOCATED NEXT TO FIRE ALARM CONTROL PANEL. |

| SECURITY AND SYSTEMS PLAN GENERAL NOTES: | |
|--|---|
| 1. | REFER TO SPECIFICATION SECTION 27 51 23 INTERCOM AND PUBLIC ADDRESS SYSTEM FOR DETAILS ON SCOPE OF WORK. |
| 2. | REFER TO SPECIFICATION SECTION 27 53 13 CLOCK SYSTEM FOR DETAILS ON SCOPE OF WORK. |
| 3. | REFER TO SPECIFICATION SECTION 28 10 00 CARD ACCESS AND INTRUSION DETECTION FOR DETAILS ON SCOPE OF WORK. |
| 4. | REFER TO SPECIFICATION SECTION 28 23 00 CCTV EQUIPMENT FOR DETAILS ON SCOPE OF WORK. |

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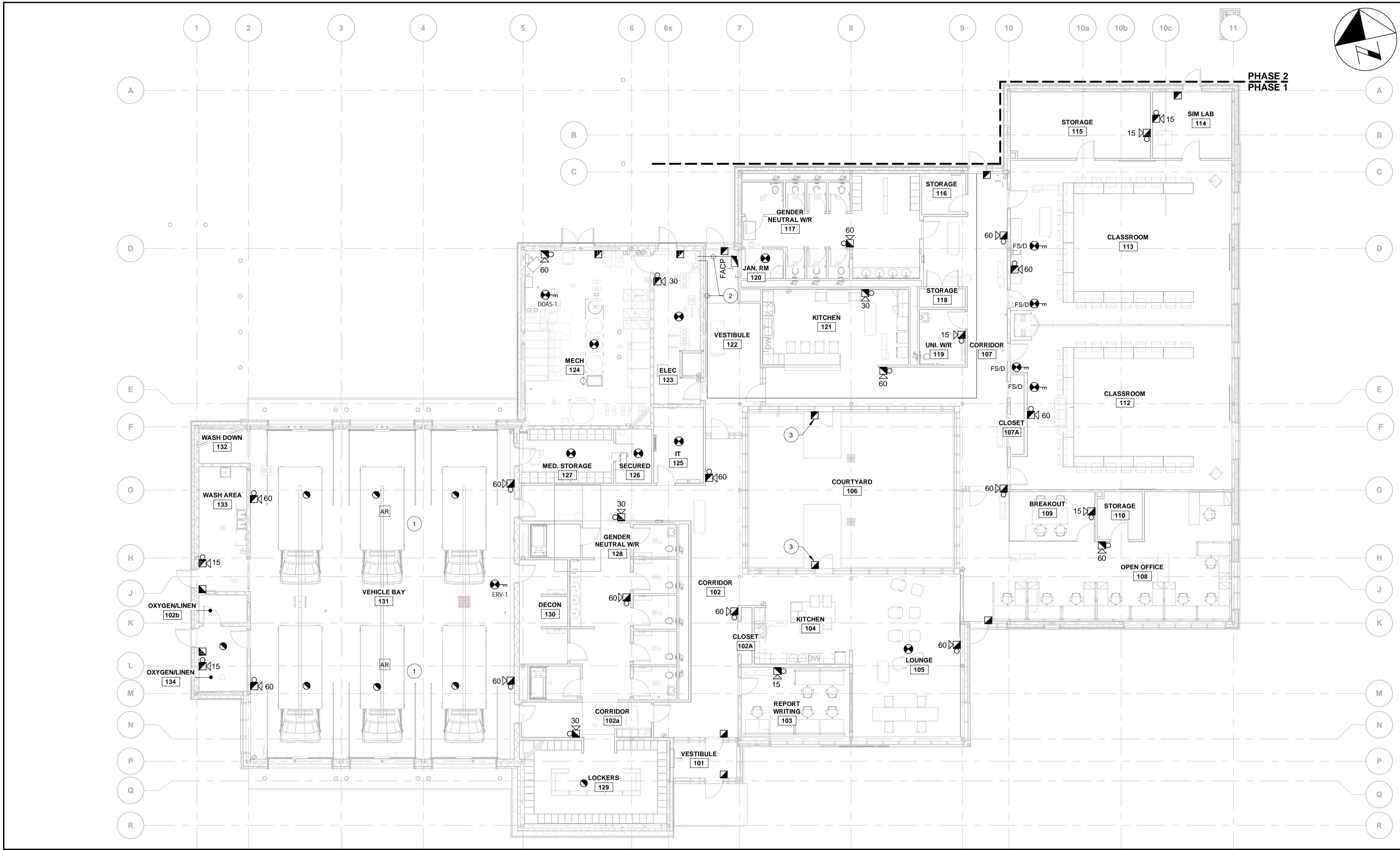
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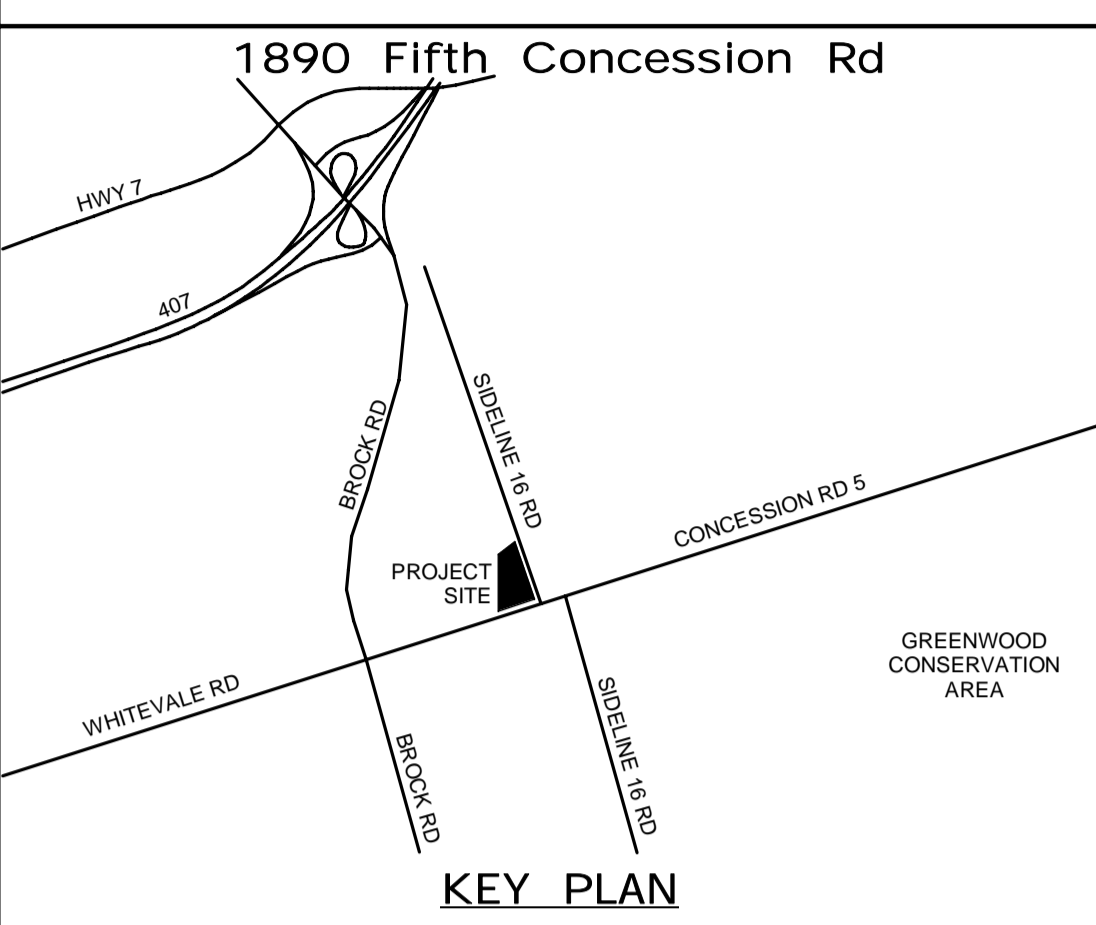
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 401 | SHEET NO. |



1 FIRE ALARM PLAN - MAIN FLOOR
A-003.1 E-501 1: 125

| FIRE ALARM PLAN KEYNOTES | |
|--------------------------|---|
| NUMBER | KEYNOTE |
| 1 | PROVIDE FIRE ALARM ADDRESSABLE RELAY MODULES AT FAN TO SHUT IT DOWN IN CASE OF ALARM INITIATION. REFER TO OPERATIONAL MATRIX FOR DETAILS. TYPICAL FOR DESTRATIFICATION FANS. |
| 2 | PROVIDE (2) SPARE 53mm EMT CONDUIT FROM FACP TO ELECTRICAL ROOM C/W PULL STRING FOR FUTURE MODIFICATIONS TO PANEL. PROVIDE (2) SPARE 53mm EMT CONDUIT FROM ELECTRICAL ROOM TO PHASE 2 AREA C/W PULL STRING FOR PHASE 2 DEVICES. |
| 3 | MANUAL PULL STATION SHALL BE WEATHERPROOF AND COMPLETE WITH AUXILIARY CONTACTS FOR WIRING TO LOCAL ELECTROMAGNETIC LOCK. REFER TO 4/E602 FOR DETAIL. |

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50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

LICENSED PROFESSIONAL ENGINEER
Mar 21, 2022
W.E. MOHAMED ALI
100186996
PROVINCE OF ONTARIO

SUB CONSULTANT

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| DESIGN BY: GR | SCALE: 1 : 125 |
| DRAWN BY: HD | DATE: 03/30/21 |
| CHECKED BY: WA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: WA | CLIENT FILE No.: 811/20 |

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THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

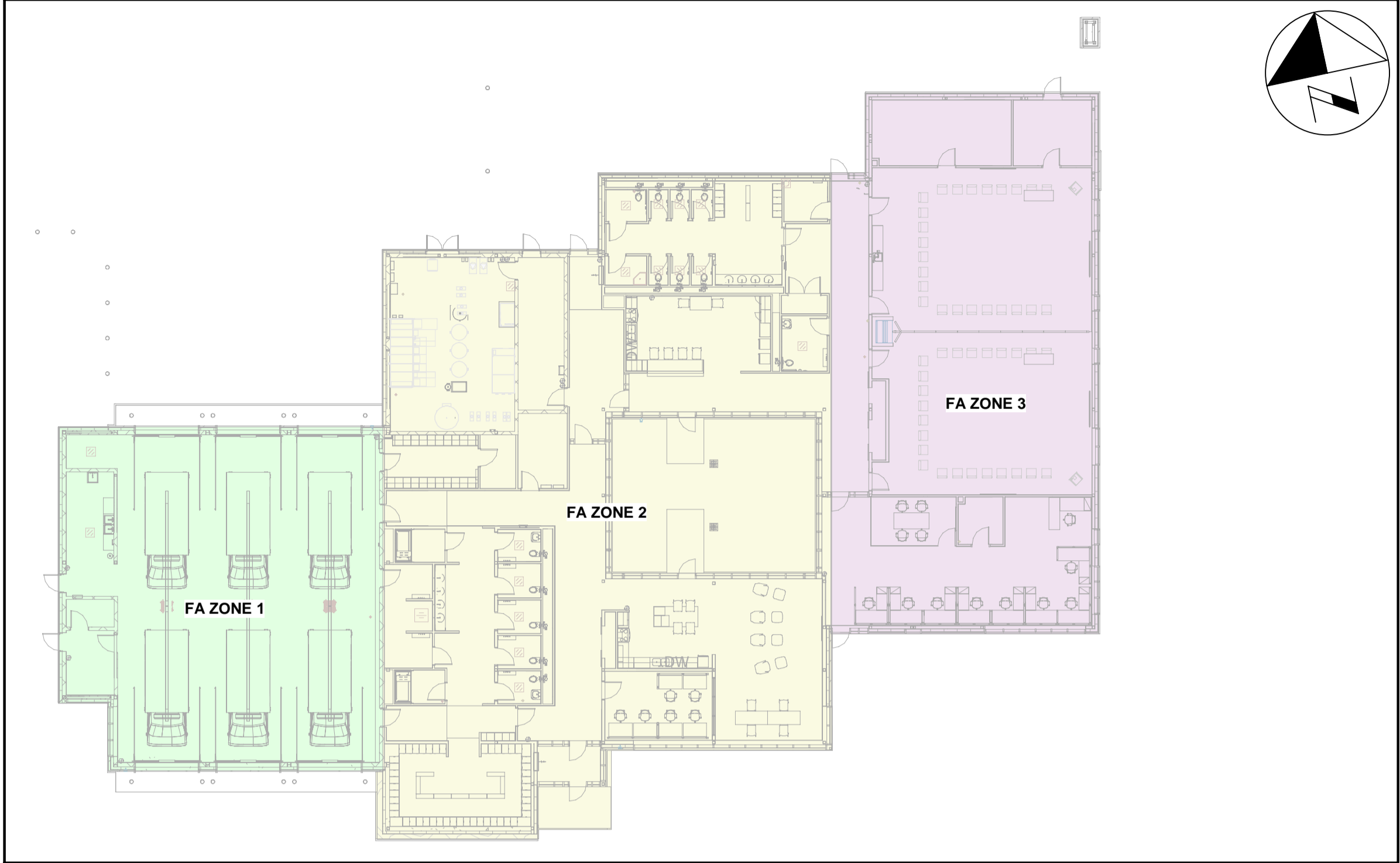
NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING

FIRE ALARM PLAN

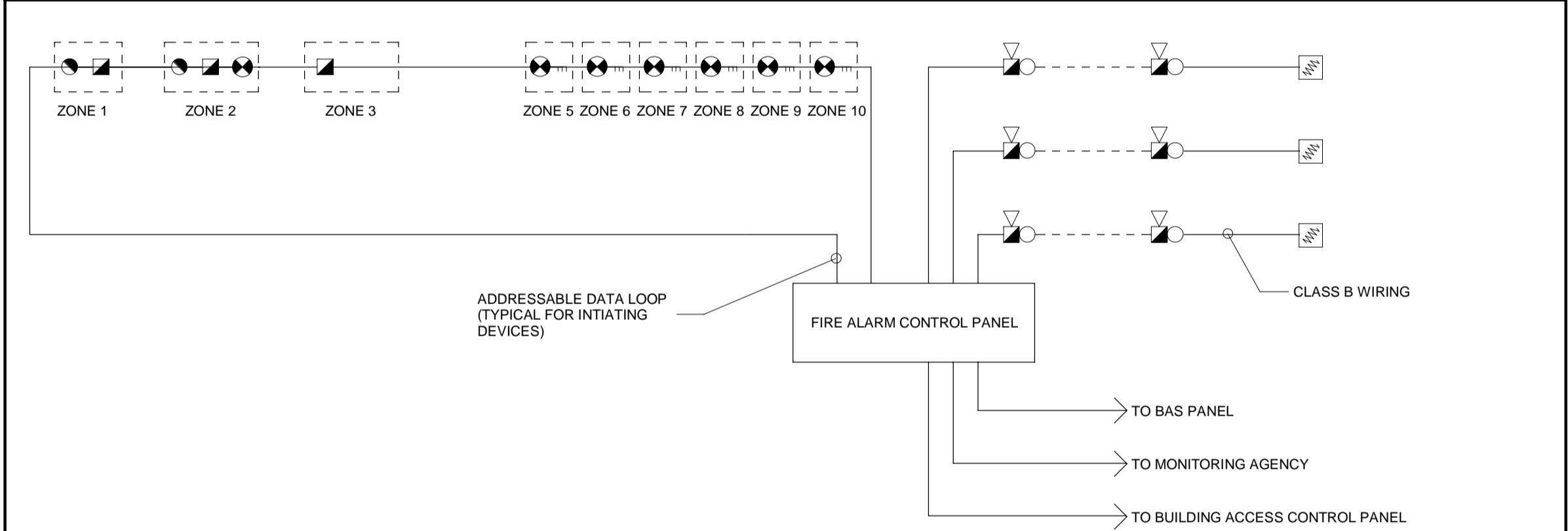
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 501 | SHEET NO. |

BIM 300/JP-AMER (CAN) 60611569-Station RDPDS-A.rvt

| FIRE ALARM ZONE SCHEDULE | | | | | |
|--------------------------|--|-------|-------------|---------|--|
| ZONE | DESCRIPTION | ALARM | SUPERVISORY | CONTROL | NOTES |
| 1 | VEHICLE AREA | x | | | |
| 2 | ADMIN AREA | x | | | |
| 3 | CLASSROOMS | x | | | |
| 4 | RESERVED FOR PHASE 2 | x | | | |
| 5 | ERV-1 DUCT SMOKE | x | | x | DETECTOR IS HARDWIRED TO HVAC UNIT TO SHUTDOWN UPON ALARM FROM ASSOCIATED DUCT SMOKE DETECTOR. |
| 6 | DOAS-1 DUCT SMOKE | x | | x | |
| 7 | FS/D DUCT SMOKE | x | | x | DETECTOR IS HARDWIRED TO FIRE/SMOKE DAMPER ACTUATOR TO CLOSE UPON ALARM FROM ASSOCIATED DUCT SMOKE DETECTOR. |
| 8 | FS/D DUCT SMOKE | x | | x | |
| 9 | FS/D DUCT SMOKE | x | | x | |
| 10 | FS/D DUCT SMOKE | x | | x | |
| | | | | | |
| S1 | STANDBY GENERATOR - GENERAL FAULT | | x | | |
| | | | | | |
| C1 | ALARM SIGNAL TO MONITORING AGENCY | | | x | |
| C2 | ALARM SIGNAL TO BUILDING AUTOMATION SYSTEM | | | x | |
| C3 | ALARM SIGNAL TO BUILDING ACCESS CONTROL SYSTEM | | | x | |
| C4 | ERV-1 SHUTDOWN | | | x | |
| C5 | DOAS-1 SHUTDOWN | | | x | |
| C6 | DESTRATIFICATION FAN SHUTDOWN | | | x | |



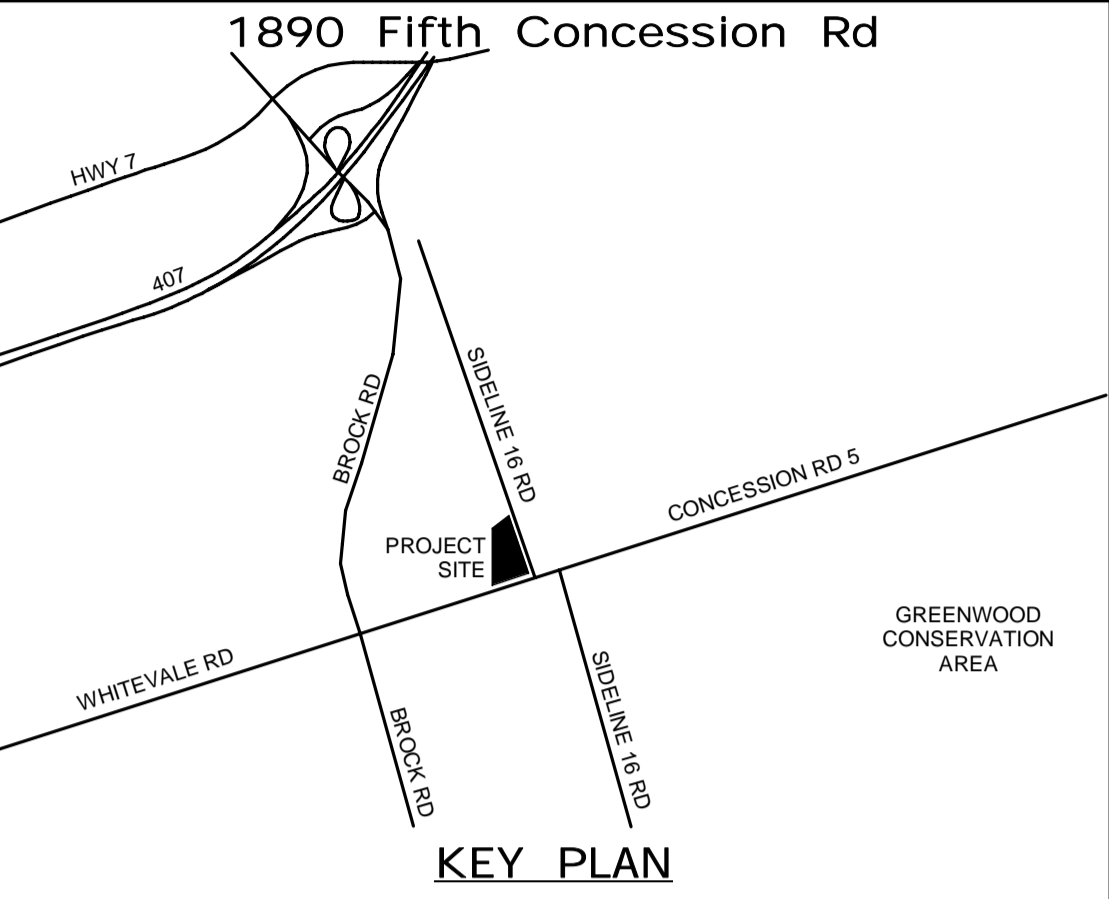
1 FIRE ALARM ZONING PLAN - MAIN FLOOR
1 : 250



- FIRE ALARM NOTES:**
- A. THIS DRAWING IS DIAGRAMMATICALLY ONLY. FOR EXACT QUANTITIES AND LOCATION OF DEVICES AND EQUIPMENT, REFER TO ELECTRICAL FLOOR PLANS.
 - B. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL FIRE ALARM DRAWINGS.
 - C. ALL END-OF-LINE, IF ANY, RESISTORS AND ISOLATORS TO BE LOCATED IN ELECTRICAL ROOM/CLOSET OR SERVICE ROOM.
 - D. ALL FINAL DESIGNATION OF NAMES FOR THE FIRE ALARM ANNUNCIATOR ARE TO CORRESPOND TO THE FLOOR DESIGNATIONS.
 - E. PROVIDE REMOTE NOTIFICATION APPLIANCE CIRCUIT POWER BOOSTER PANELS AS REQUIRED.
 - F. AUDIBLE AND VISUAL NOTIFICATION APPLIANCES SHALL BE WIRED AND CONTROLLED SEPARATELY.
 - G. COORDINATE CONNECTION OF FIRE ALARM SYSTEM EXTERNAL MONITORING WITH CONTRACTING SERVICE COMPANY.
 - H. ADDRESSABLE INTERFACE MODULES MAY BE REQUIRED FOR THE INTEGRATION OF NON-ADDRESSABLE INITIATING AND SIGNALING DEVICES. PROVIDE AS NECESSARY. REFER TO FIRE ALARM DETAILS FOR ADDITIONAL INFORMATION.
 - I. ENTIRE FIRE ALARM SYSTEM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH CAN/ULC-S524 AND CAN/ULC-S537, APPLICABLE EDITIONS.
 - J. PROVIDE INTEGRATED TESTING OF FIRE ALARM COMPONENTS IN ACCORDANCE WITH CAN/ULC-1001.

2 FIRE ALARM RISER DIAGRAM
N.T.S.

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THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING
FIRE ALARM ZONE PLAN, RISER DIAGRAM AND DETAILS

| | | |
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 502 | SHEET NO. |

1. ALL BONDING AND GROUNDING METHODS SHALL BE AS PER THE ONTARIO ELECTRICAL SAFETY CODE.
2. REFER TO PANEL SCHEDULES FOR COMPLETE LOAD LIST.

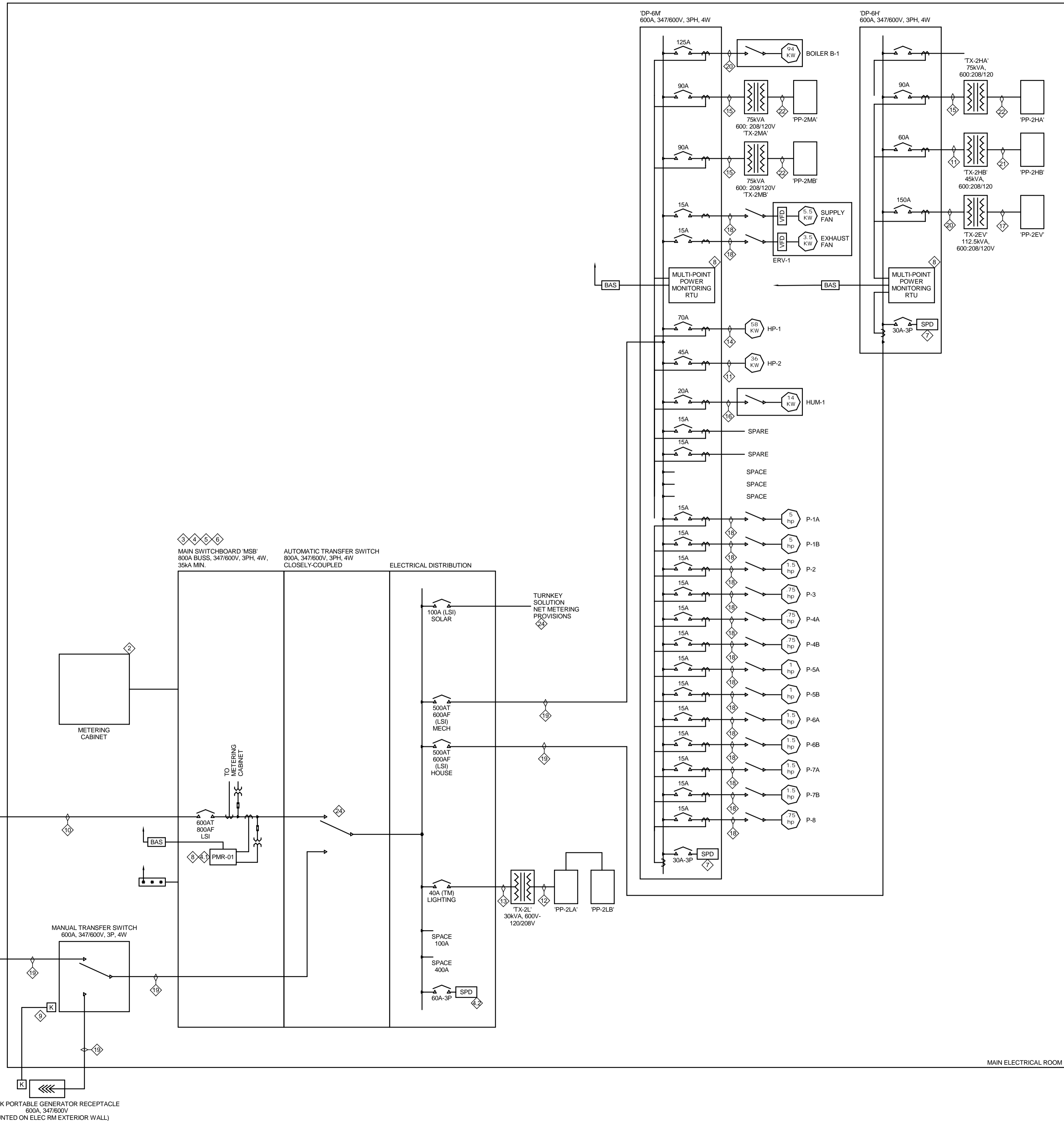
CONSTRUCTION KEYNOTES:

1. PROVIDE NEW SECONDARY SERVICE FROM TRANSFORMER TO SWITCHBOARD LOCATION.
2. PROVIDE NEW 915W x 915H x 30SD METERING CABINET PER ELEXICON'S REQUIREMENTS. PROVIDE POWER (FED FROM HOUSE PANEL) AND DATA CONNECTIONS. PROVIDE 41mmC CONDUIT FROM METERING COMPARTMENT LOCATION TO METERING CABINET.
3. PROVIDE A 800A, 347/600V, 3PH, 4W, 35KA MIN. SERVICE-ENTRANCE RATED SWITCHBOARD. MAIN BREAKER SHALL BE ELECTRONIC TRIP, 80% RATED.
4. CUSTOM PROVISIONS:
 - 4.1. PROVIDE CUSTOMER METERING c/w DISPLAY EQUAL TO SCHNEIDER ELECTRIC PM8000.
 - 4.2. PROVIDE SURGE PROTECTION DEVICE (SPD), 240KA SURGE CURRENT RATING c/w SURGE COUNTER AND ALARM DRY CONTACTS.
5. MAXIMUM ALLOWABLE DIMENSIONS FOR SWITCHBOARD 4000W x 915D x 2324H.
6. COORDINATE METERING REQUIREMENTS WITH ELEXICON ENERGY.
7. PROVIDE 120kA SPD INTEGRATED IN PANEL.
8. PROVIDE CUSTOMER-OWNED MULTI-POINT METERING TIED BACK TO BUILDING AUTOMATION SYSTEM IN COMPLIANCE WITH LEED REQUIREMENTS. METERING COMPONENTS SHALL BE INTEGRATED INTO PANELBOARDS AND SWITCHBOARDS. STANDALONE COMPONENTRY NOT PERMITTED.
9. KIRK KEY INTERLOCKS PORTABLE GENERATOR RECEPTACLE WITH THE MANUAL TRANSFER SWITCH. THE PORTABLE GENERATOR RECEPTACLE WILL BE ACCESSIBLE ONCE THE MANUAL TRANSFER SWITCH IS SET TO PORTABLE GENERATOR MODE.
10. 3 RUNS OF 4#300 Kcmil + BOND IN 103mmC.
11. 3#6 AWG + BOND IN 27mmC.
12. 4#1 AWG IN 53mmC.
13. 3#8 AWG + BOND IN 27mmC.
14. 3#4 AWG + BOND IN 41mmC.
15. 3#3 AWG + BOND IN 35mmC.
16. 3#10 AWG + BOND IN 27mmC.
17. 2 RUNS OF 4#40 AWG + BOND IN 63mmC.
18. 3#12 AWG + BOND IN 21mmC.
19. 2 RUNS OF 4 #350 Kcmil + BOND IN (2) 103mmC.
20. 3#1/0 AWG + BOND IN 53mmC.
21. 4#2/0 AWG + BOND IN 63mmC.
22. 2 RUNS OF 4#1/0 AWG + BOND IN 53mmC
23. GENERATOR FRAME TO BE BONDED TO SERVICE GROUND. NEUTRAL TO BE FLOATING, NOT BONDED TO GENERATOR FRAME (IN ACCORDANCE WITH ESA BULLETIN 10-10-8).
24. SOLAR PV CONTROLS SHALL RECEIVE A PERMISSIVE SIGNAL FROM AUTOMATIC TRANSFER SWITCH TO CONNECT TO ELECTRICAL SYSTEM ONLY WHEN UTILITY POWER IS CONNECTED. COORDINATE CONTROLS WITH SOLAR PV PROVIDER.

- SUPPLY AND INSTALL TRANSFORMER.
- SUPPLY AND INSTALL PRIMARY SERVICE WIRING.
- PROVIDE TERMINATIONS BOTH PRIMARY AND SECONDARY AT THE PADMOUNT TRANSFORMER.

ELECTRICAL CONTRACTOR SHALL:

- SUPPLY AND INSTALL PRIMARY SERVICE CONCRETE ENCASED DUCTBANK.
- SUPPLY AND INSTALL SECONDARY SERVICE CONCRETE ENCASED DUCTBANK AND ASSOCIATED WIRING.
- PROVIDE TRANSFORMER FOUNDATIONS AS PER ELEXICON'S STANDARDS.
- PROVIDE TRANSFORMER GROUNDING AS PER ELEXICON'S STANDARDS.



1890 Fifth Concession Rd

HWY 7

40T

BROCK RD

SPELENE 16 RD

CONCESSION RD 5

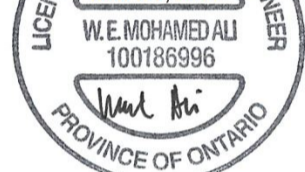


WHITEVALE RD

PROJECT SITE

GREENWOOD CONSERVATION AREA

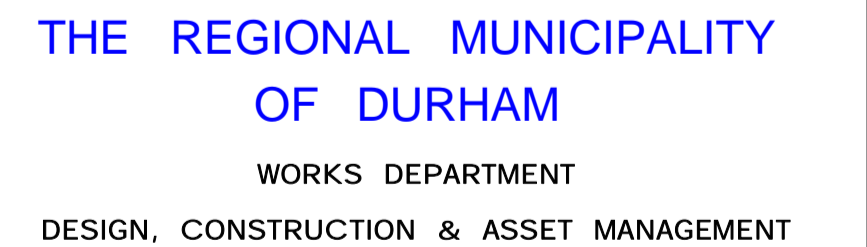
KEY PLAN

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| <h1 style="text-align: center;">AECOM</h1> |  |
| <p>AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p> |  |
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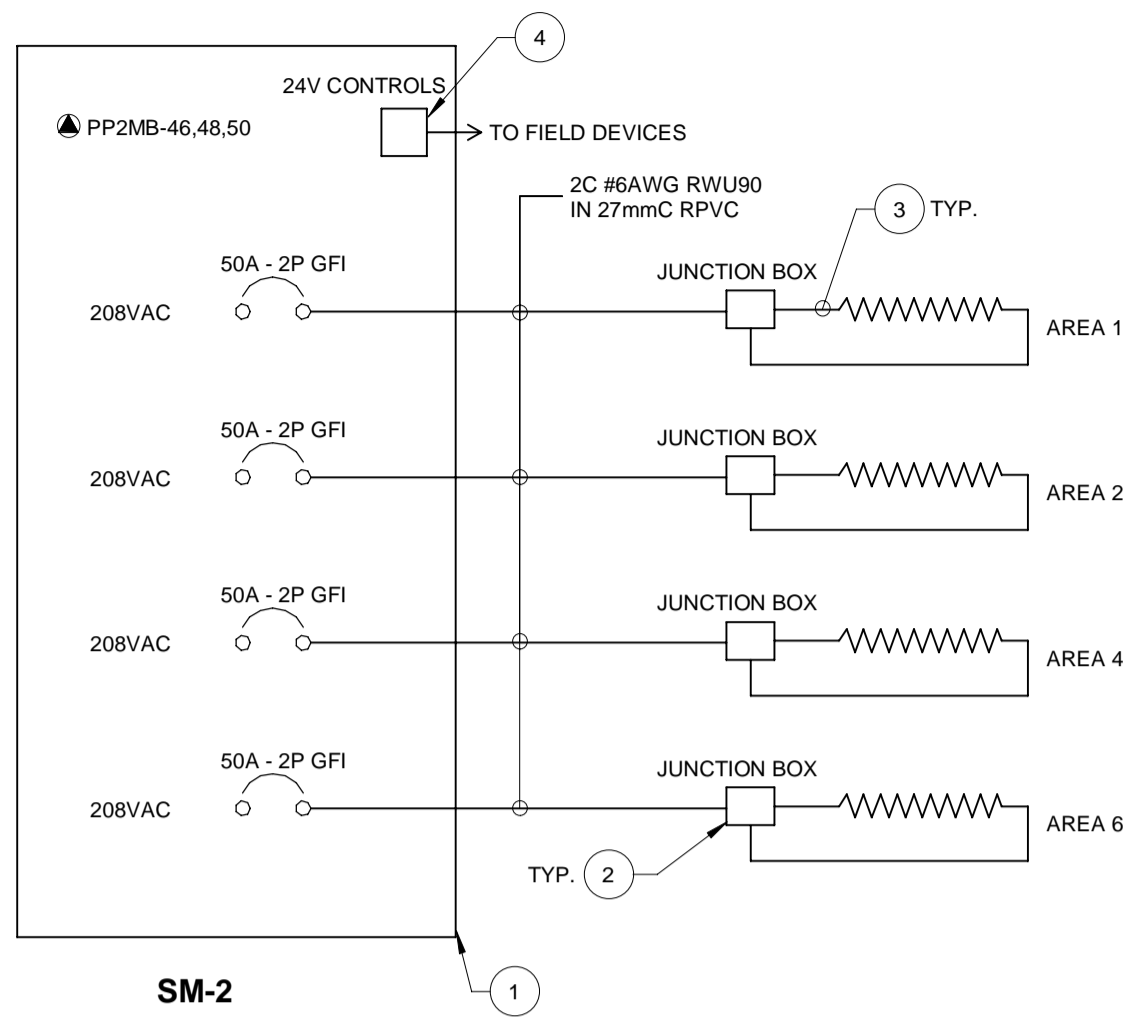
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| DRAWN BY: HD | DATE: 11/07/20 |
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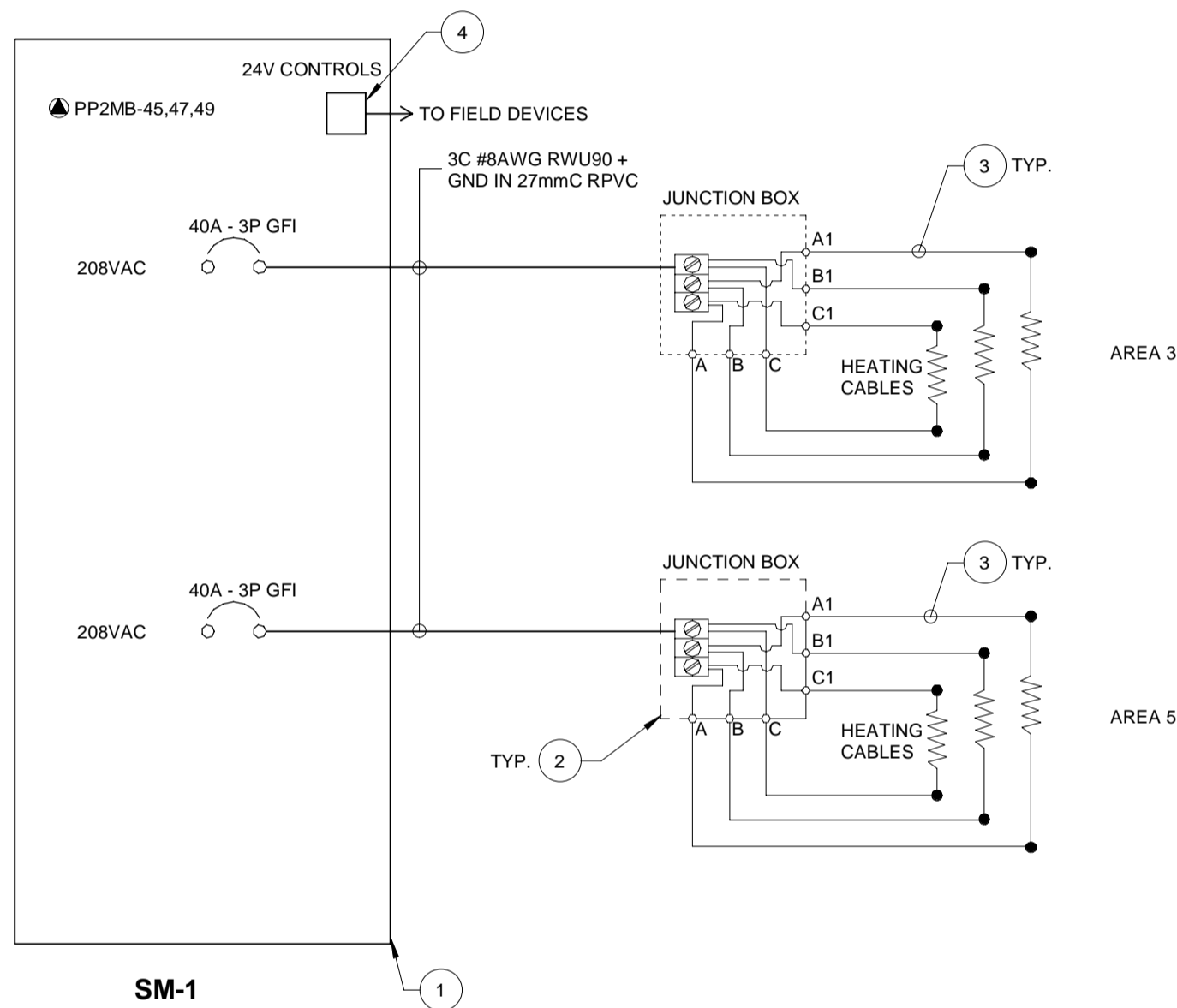


NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING SINGLE LINE DIAGRAM

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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 601 | SHEET NO. |



SM-2



SM-1

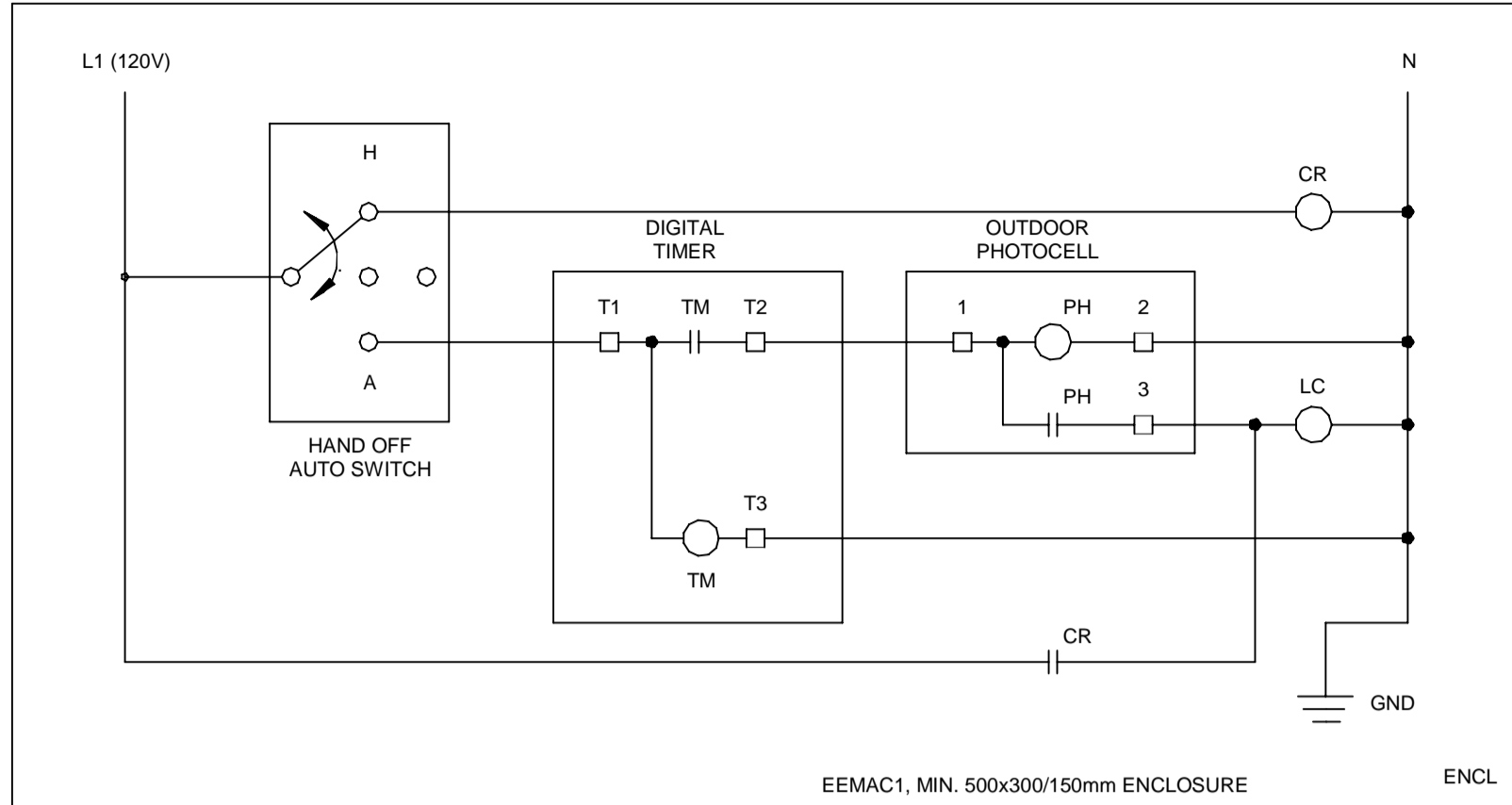
GENERAL NOTES:

- REFER TO DRAWING M-001 FOR LOCATION OF SNOW MELT AREAS AND PANELS.
- COORDINATE WITH SECTION 23 83 13 FOR THIS WORK. SECTION 26 SHALL INSTALL THIS COMPLETE SYSTEM.

DRAWING NOTES:

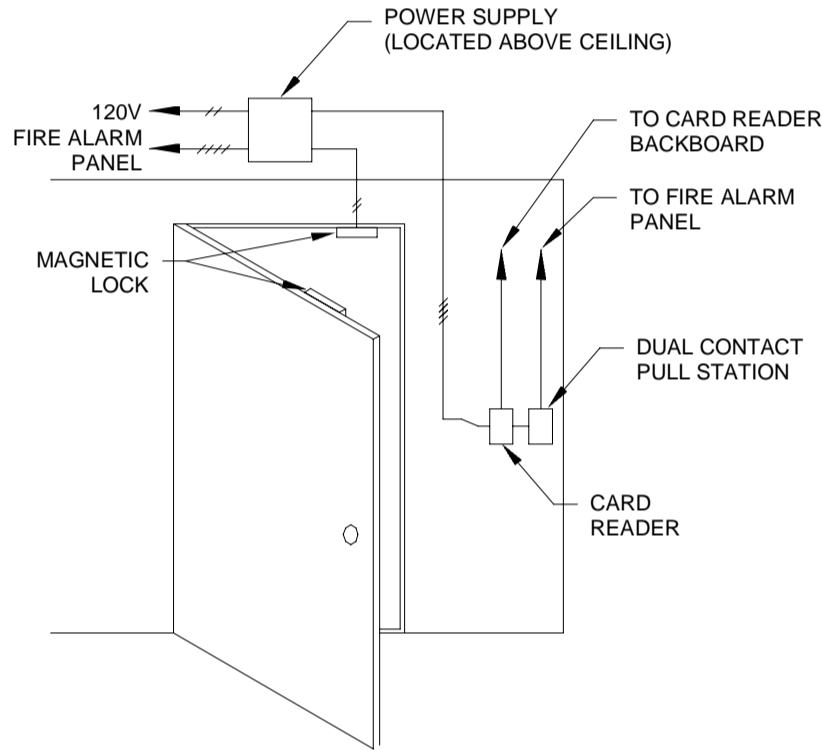
- SUPPLIED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- INSTALL WEATHERPROOF JUNCTION BOX 1m ABOVE FINISHED GRADE. PROVIDE MECHANICAL PROTECTION OF HEATING CABLES FROM JUNCTION BOX TO SLAB WITH 41mmC RPVC PER HEATING CABLE.
- INSTALL HEATING CABLES SUPPLIED BY DIVISION 23 AS PER MANUFACTURER INSTRUCTIONS. COORDINATE WORK WITH STRUCTURAL.
- COORDINATE INSTALLATION OF ARIAL SNOW SENSORS AND SLAB TEMPERATURE SENSORS. INSTALL DEVICES AS PER SITE CONDITIONS AND MANUFACTURER INSTALLATION INSTRUCTIONS. PROVIDE ALL WIRING, CONDUIT, AND JUNCTION BOXES ASSOCIATED WITH THIS WORK.

5 ELECTRIC SNOW MELT WIRING DETAILS



1 OUTDOOR LIGHTING CONTROLS

N.T.S.

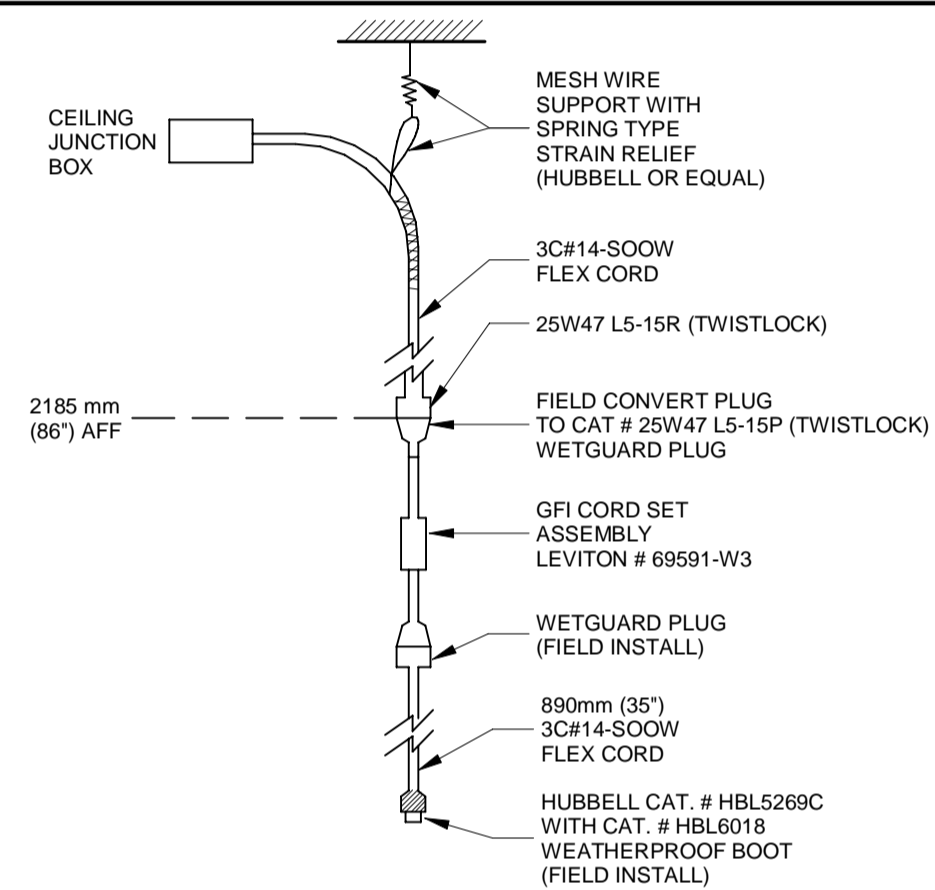


NOTES:

- MAGNETIC DOOR LOCKS ARE PROVIDED BY SECURITY CONTRACTOR & WIRED BY ELECTRICAL CONTRACTOR.
- SIZE ALL CONDUCTORS PER MANUFACTURER'S INSTRUCTIONS.
- MAGNETIC DOOR LOCKS ARE TO RELEASE UNDER A FIRE CONDITION OR IF LOCAL PULL STATIONS ARE ACTIVATED.
- CONTRACTOR TO PROVIDE ELECTROMAGNETIC LOCKS COMPLETE WITH REQUEST TO EXIT.

4 ELECTROMEGETNETIC LOCK DETAIL

N.T.S.



MATERIAL LIST

- LEVITON CAT.# 69591-W3 QTY.1
CAT.# 25W47 L5-15P QTY.1
CAT.# 25W47 L5-15R QTY.1
- HUBBELL CAT.# HBL6018 QTY.1
CAT.# HBL5269C QTY.1

FLEX CORD: 3C#14-SOOW AS REQUIRED.
STRAIN RELIEF: HUBBELL OR EQUAL.

NOTE: CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR AS REQUIRED FOR FIELD CONVERSION AND ASSEMBLY. DETAILED ASSEMBLY INSTRUCTIONS WILL BE PROVIDED.

2 EMS VEHICLE PLUG

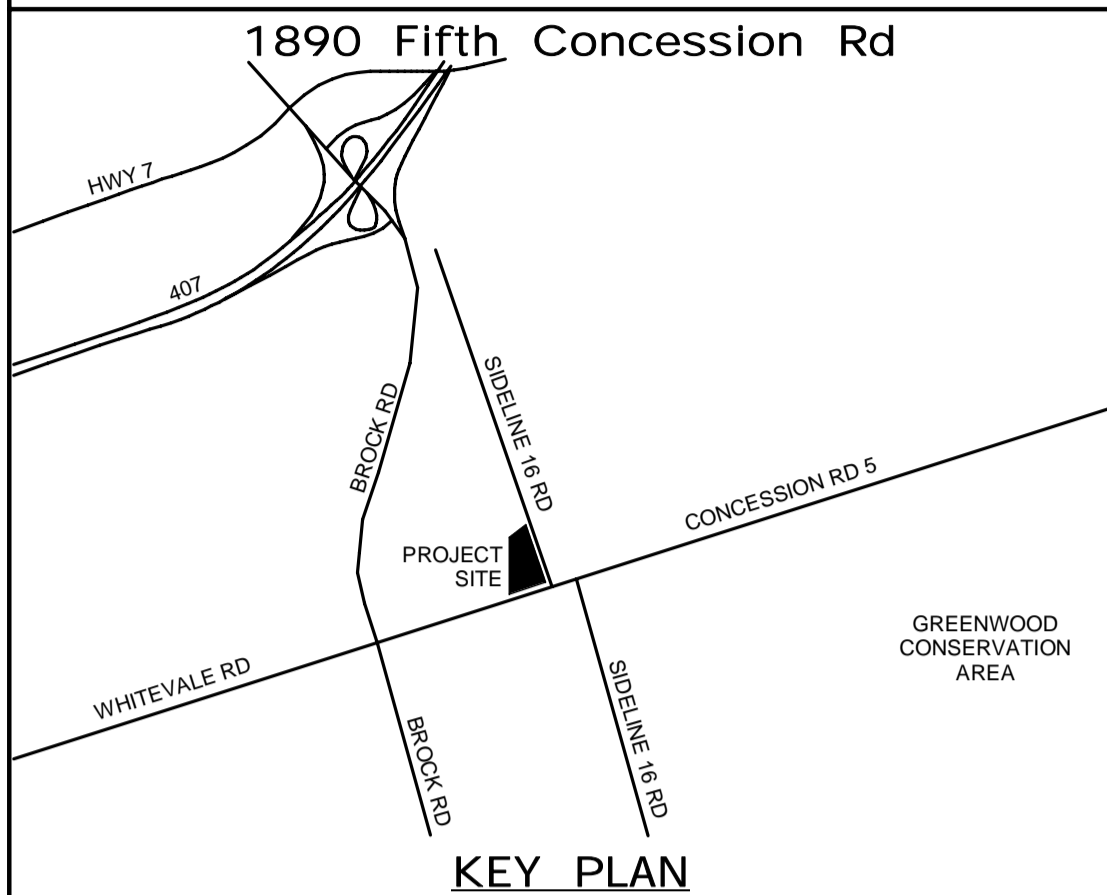
N.T.S.

| 8-WIRE ISOLATED (8T) (3+1) | NO. REGULAR CIRCUITS | NO. ISOLATED CIRCUITS |
|---|----------------------|-----------------------|
| NEUTRAL (WHITE) CIRCUIT 1 (BLACK) CIRCUIT 2 (RED) CIRCUIT 2 (BLUE) GROUND (GREEN) ISOLATED CIRCUIT 5 (ORANGE) ISOLATED NEUTRAL (WHITE/ORANGE) ISOLATED GROUND (GREEN/ORANGE) | 3 | 1 |

3 SYSTEM FURNITURE WIRING

N.T.S.

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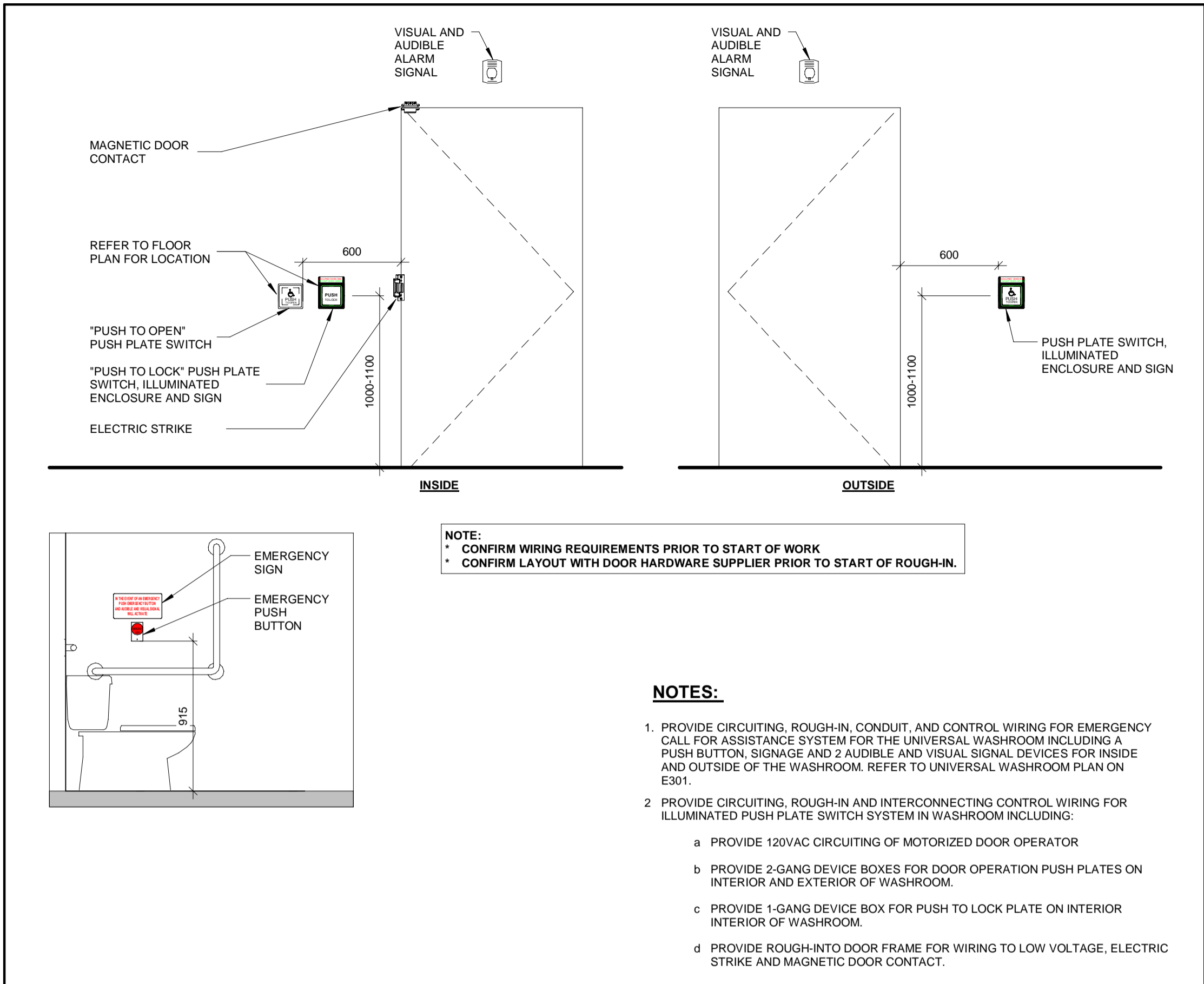
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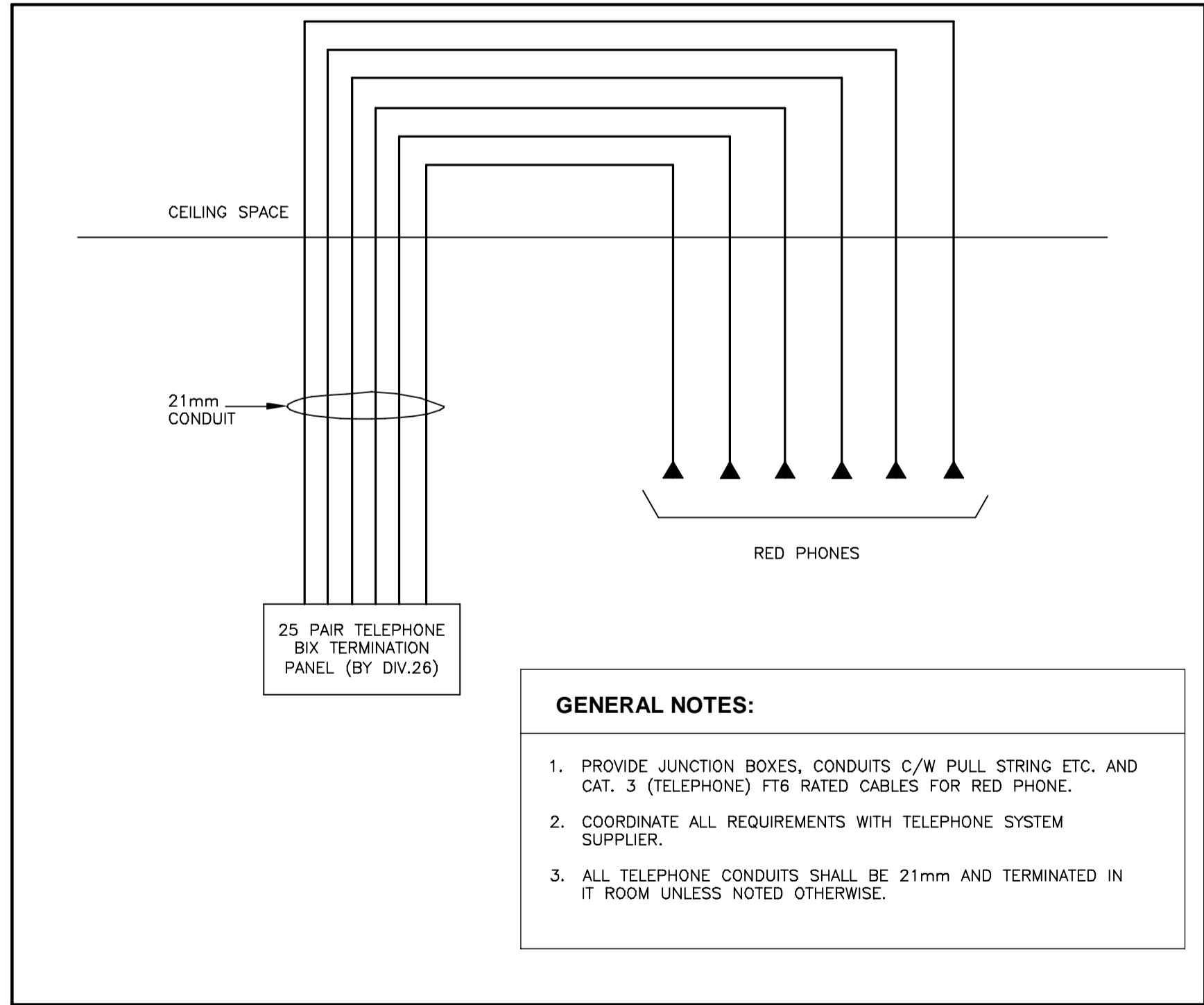
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL DETAILS

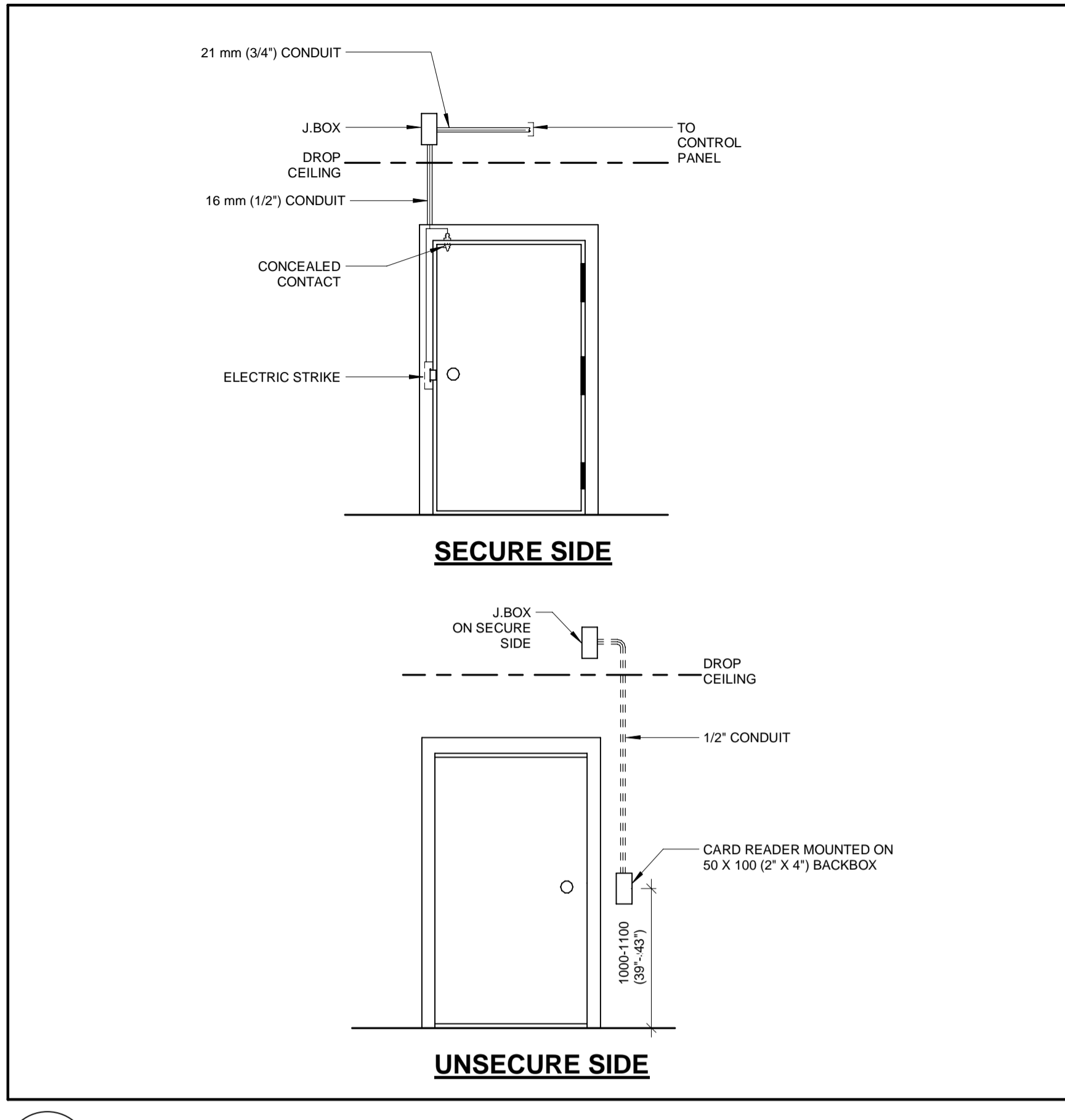
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| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 602 | SHEET NO. |



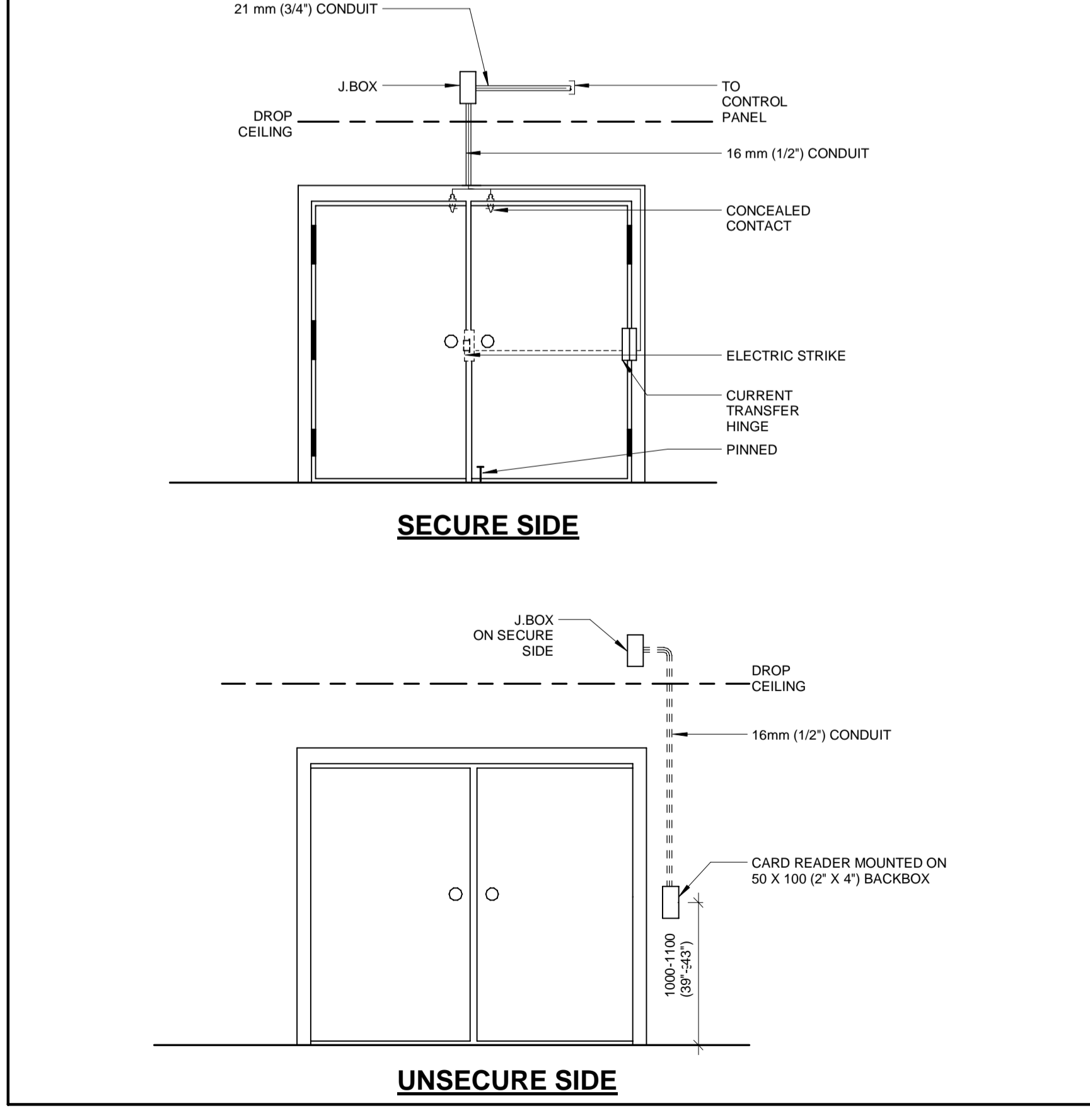
1 UNIVERSAL WASHROOM DETAIL
E-603 1 : 25



2 EMERGENCY SYSTEM RISER DIAGRAM
E-603 N.T.S.

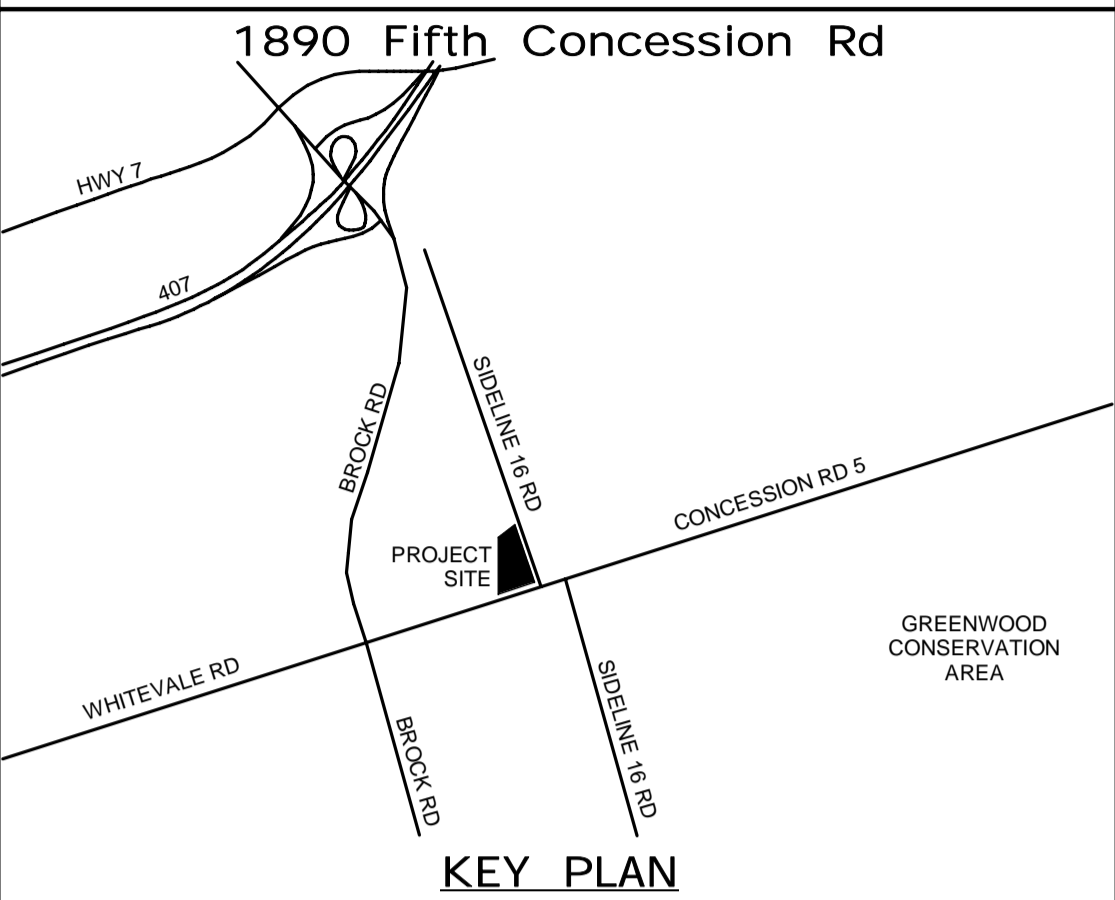


3 TYPICAL SINGLE DOOR DETAIL C/W CONTACT, STRIKE, CARD READER
E-603 N.T.S.



4 TYPICAL DOUBLE DOOR DETAIL C/W CONTACTS, STRIKE, CARD READER
E-603 N.T.S.

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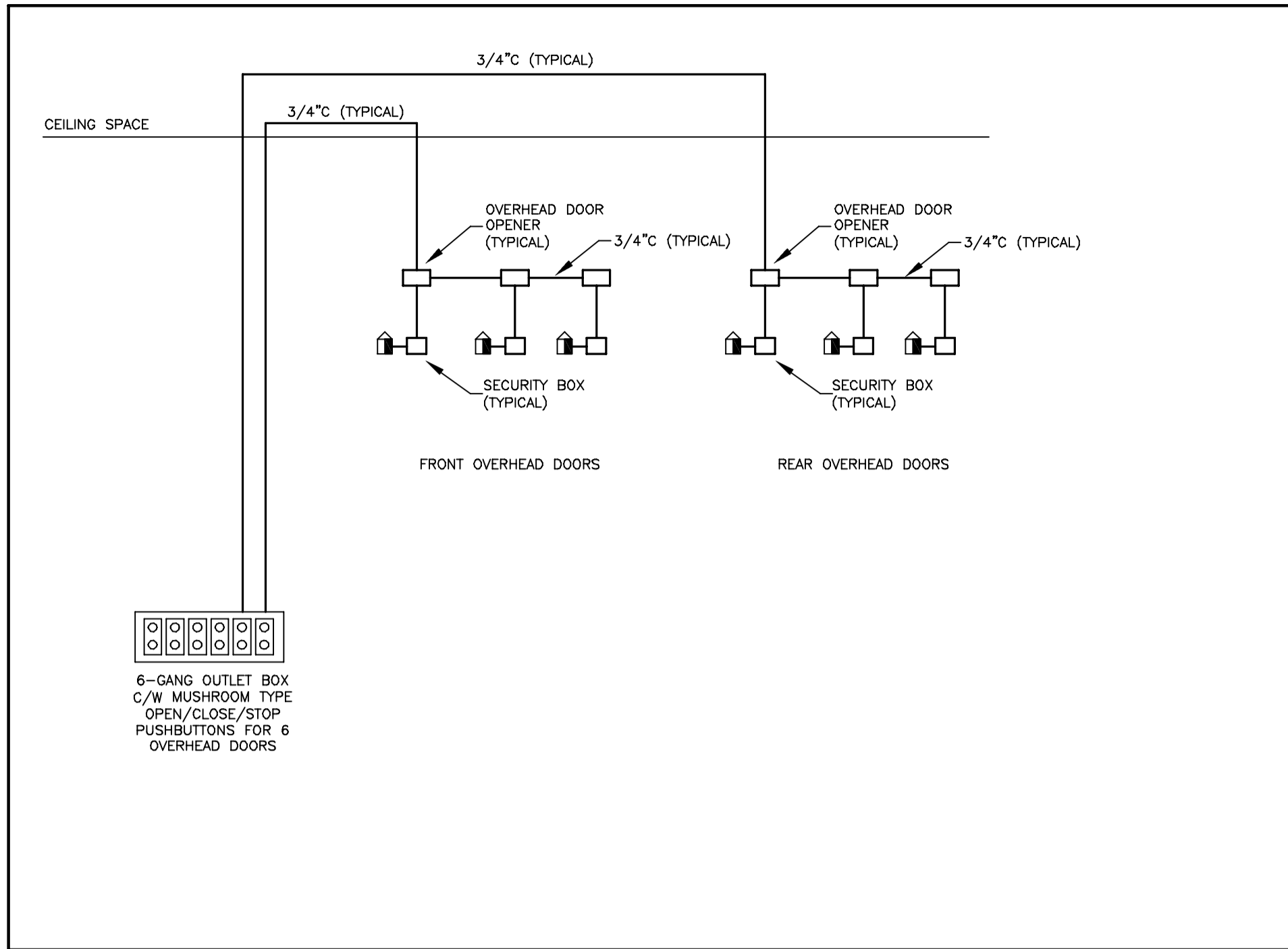
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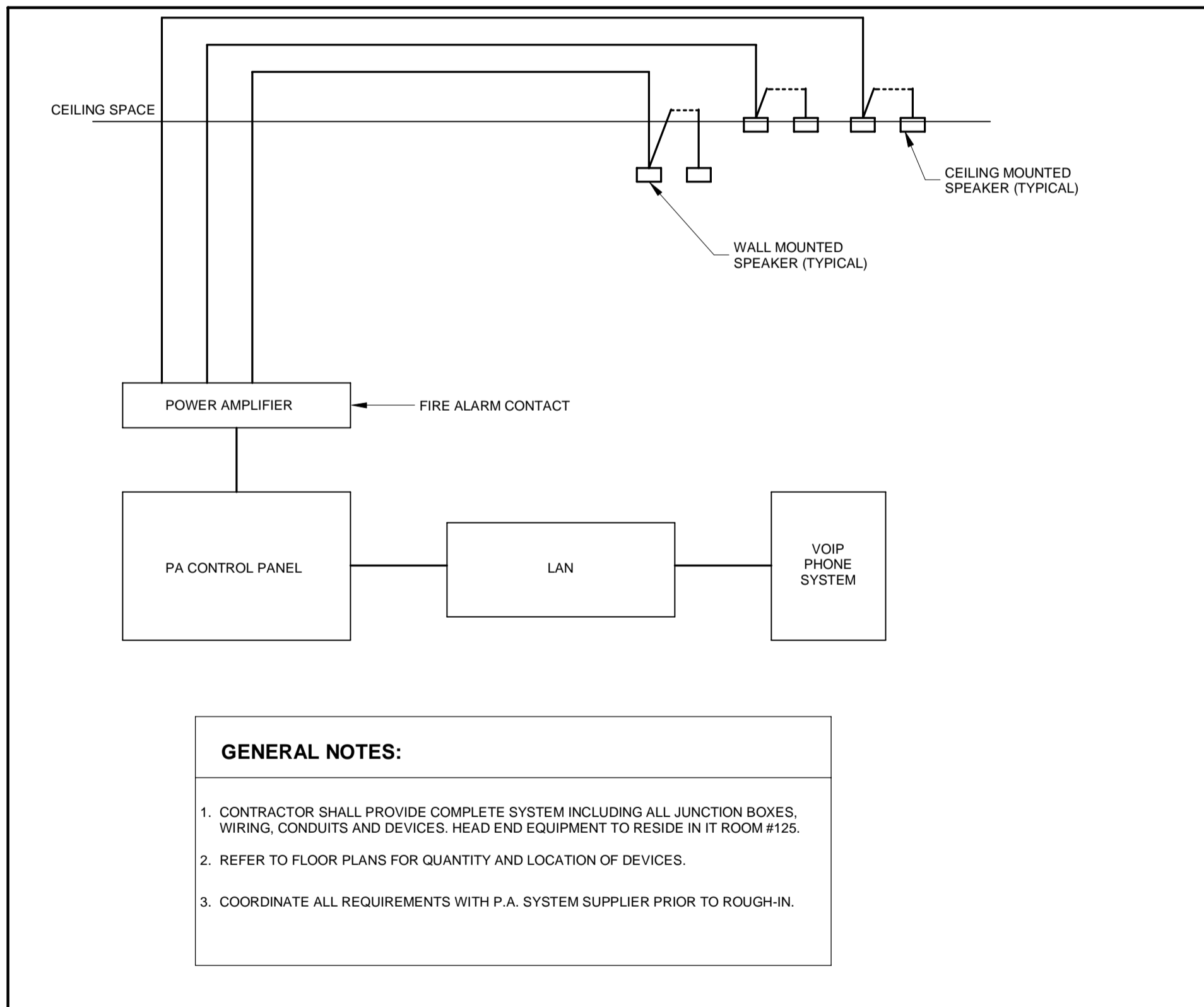
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NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL DETAILS

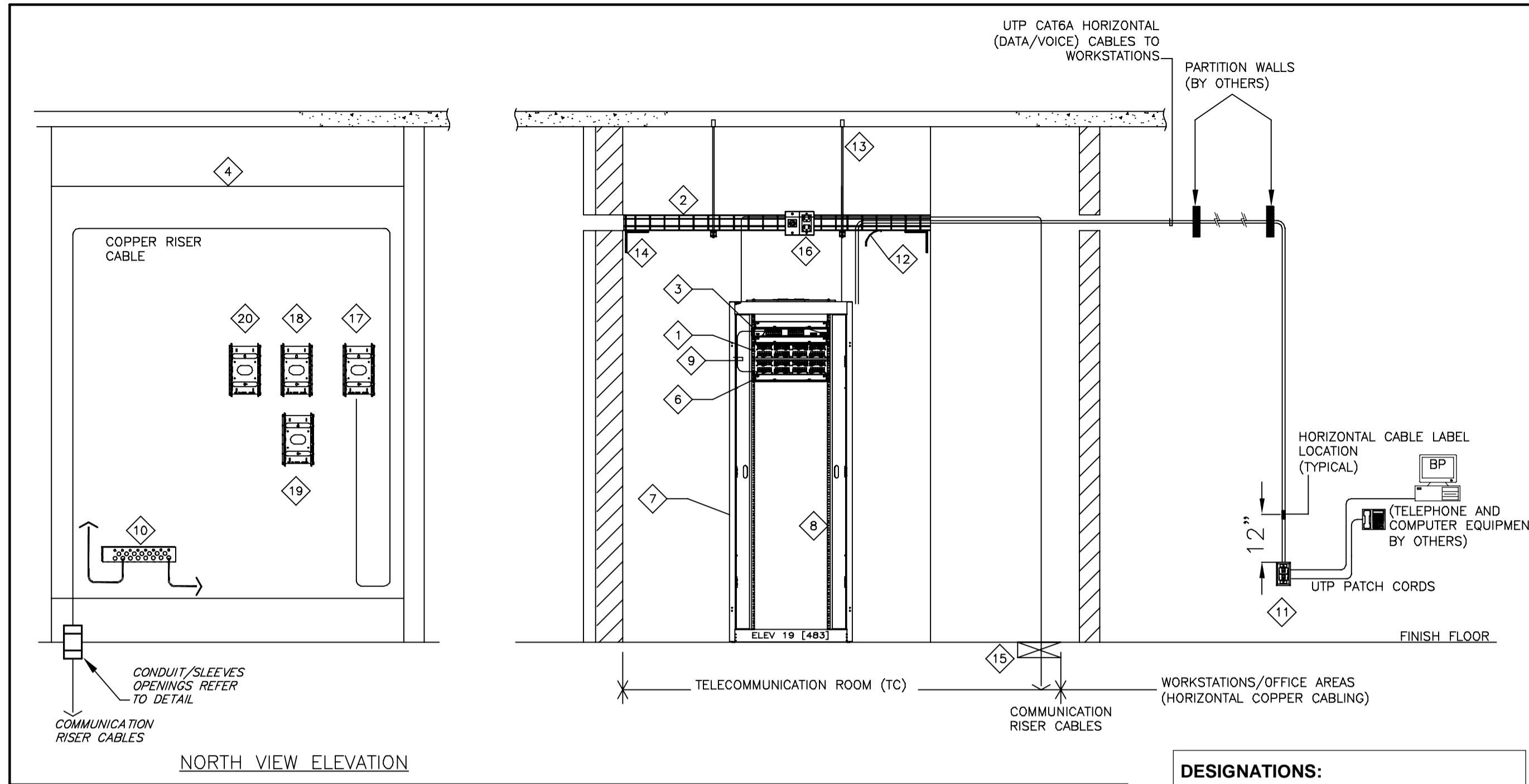
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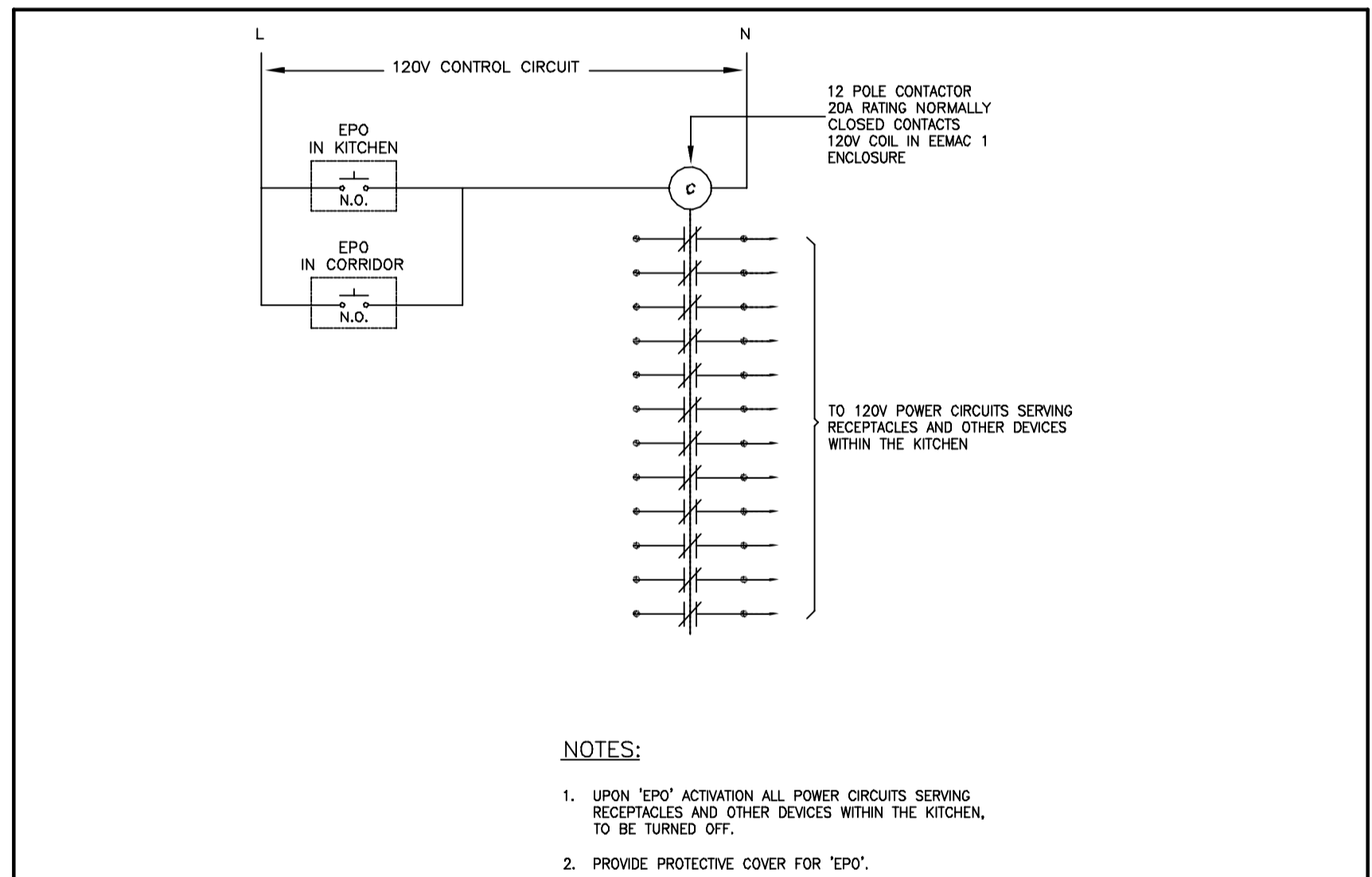
1 OVERHEAD DOORS CONTROL DIAGRAM
E-604 N.T.S.



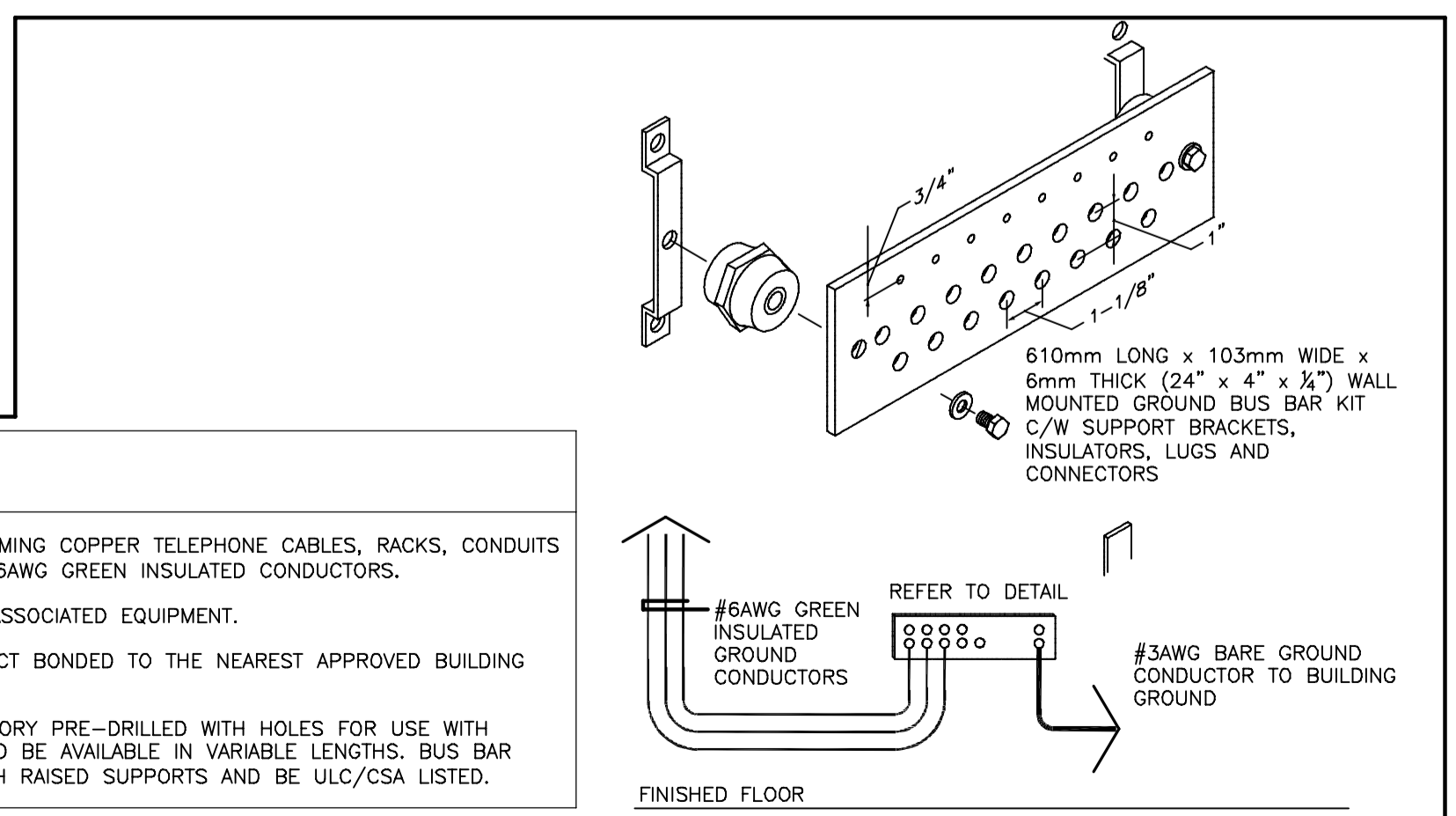
3 P.A. SYSTEM RISER DIAGRAM
E-604 N.T.S.



2 CONCEPTUAL TELECOMMUNICATION SCHEMATIC RISER DIAGRAM DETAIL
E-604 N.T.S.



4 TYPICAL DIAGRAM FOR EMERGENCY POWER SHUT-OFF IN THE KITCHEN
E-604 N.T.S.



GENERAL NOTES:

- GROUND AND BOND INCOMING COPPER TELEPHONE CABLES, RACKS, CONDUITS AND CABLE TRAY WITH #6AWG GREEN INSULATED CONDUCTORS.
- LOCATE BUS BAR NEAR ASSOCIATED EQUIPMENT.
- BUS BAR SHALL BE DIRECT BONDED TO THE NEAREST APPROVED BUILDING GROUND.
- BUS BAR SHALL BE FACTORY PRE-DRILLED WITH HOLES FOR USE WITH STANDARD SIZE LUGS AND BE AVAILABLE IN VARIABLE LENGTHS. BUS BAR SHALL BE COMPLETE WITH RAISED SUPPORTS AND BE ULC/CSA LISTED.

5 TYPICAL TELECOMMUNICATIONS GROUNDING BUS BAR
E-604 N.T.S.

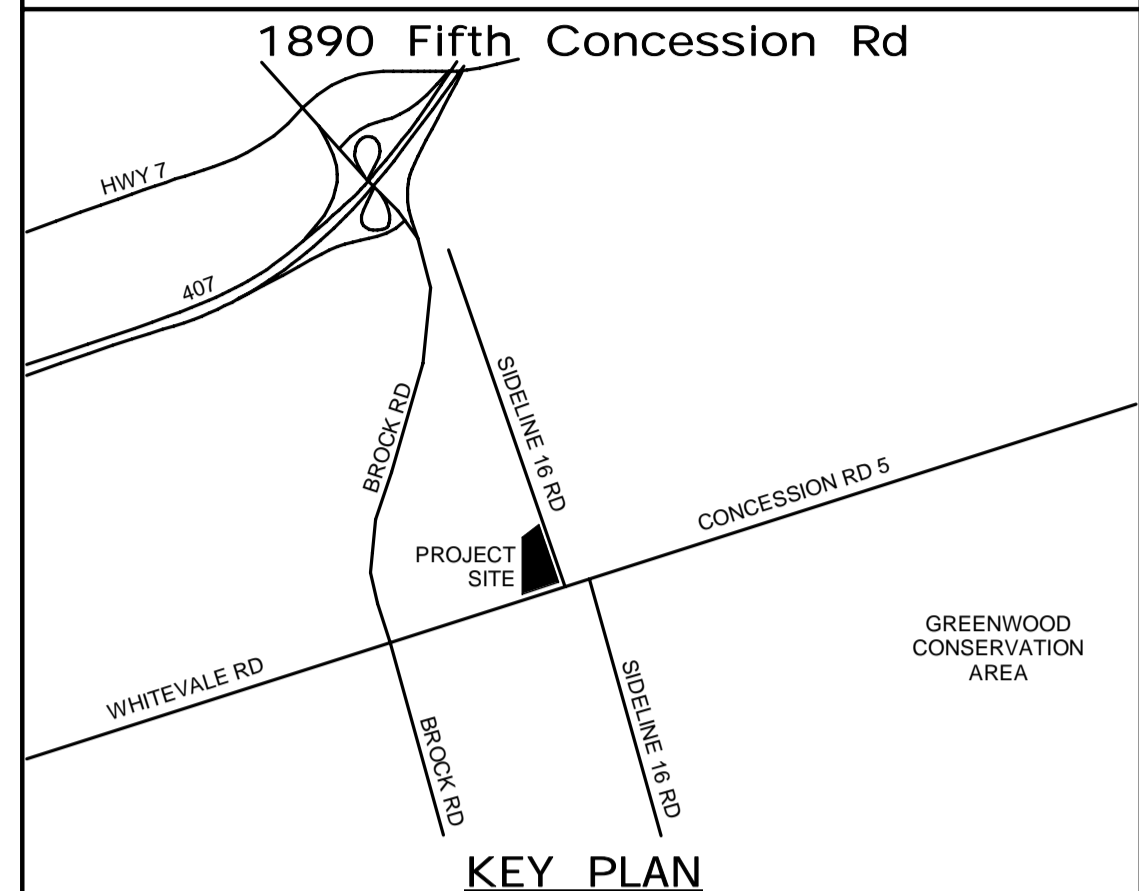
DESIGNATIONS:

- 48-PORT, UTP, CAT6A MODULAR PATCH PANELS COMPLETE WITH INDIVIDUAL RJ45 JACKS.
- BASKET TYPE CABLE TRAY SYSTEM MOUNTED ABOVE CEILING SPACE
- NETWORK SWITCH (BY OTHERS)
- 8" x 4" x 3/4" THICK WALL MOUNTED FIRE RATED PLYWOOD BACKBOARDS
- NOT IN USE
- HORIZONTAL CABLE MANAGER (TYPICAL FOR 2)
- 19" 4-POST FLOOR MOUNTED EQUIPMENT CABINET
- VERTICAL CABLE MANAGER (BOLTED AT EACH SIDE OF RACK)
- UTP CAT6 CROSS-CONNECT (RJ45) PATCH CABLES
- WALL MOUNTED GROUND BUS BAR COMPLETE WITH GROUNDING CONDUCTORS
- WALL MOUNTED WORKSTATION INFORMATION OUTLET (WIO)
- CABLE DROP-OUTS
- ALL THREADED ROD COMPLETE WITH UNISTRUT CHANNELS, WASHERS, NUTS AND ALL REQUIRED HARDWARE TO SUPPORT CABLE TRAY SYSTEM
- WALL MOUNTED BRACKET TO SECURE AND SUPPORT HORIZONTAL CABLE TRAY SYSTEMS
- FIRE RATE WALL/FLOOR SLOT OPENING WITH INTUMESCENT (PIILLOW) MATERIALS THAT AUTOMATICALLY EXPAND WHEN EXPOSED TO FIRE OR HIGH TEMPERATURES
- CABLE TRAY SIDE MOUNTED SINGLE AND DUPLEX RECEPTACLES.
- WALL MOUNTED DEMARCATION SERVICES BIX BLOCKS.
- BIX BLOCKS FOR ANALOG TELEPHONE SERVICE
- BIX BLOCKS FOR REGULAR TELEPHONE SERVICE
- CCTV SYSTEM TERMINATIONS

DETAIL #1 NOTES:

- EQUIPMENT CABINET, CABLE TRAY AND CONDUITS SHALL BE BONDED AND GROUNDING AS PER ELECTRICAL BUILDING CODE AND WITH MINIMUM #6AWG TO WALL MOUNTED GROUND BUS BAR.
- PROVIDE COPPER PATCH CORDS FOR COMPUTER (LAN) NETWORK.

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



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SUB CONSULTANT

DESIGN BY: GR

SCALE: N.T.S.

DRAWN BY: HD

DATE: 03/30/21

CHECKED BY: WA

CONSULTANT PROJECT NO.: 60611569

APPROVED BY: WA

CLIENT FILE No.: 811/20

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DURHAM REGION
























THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL DETAILS

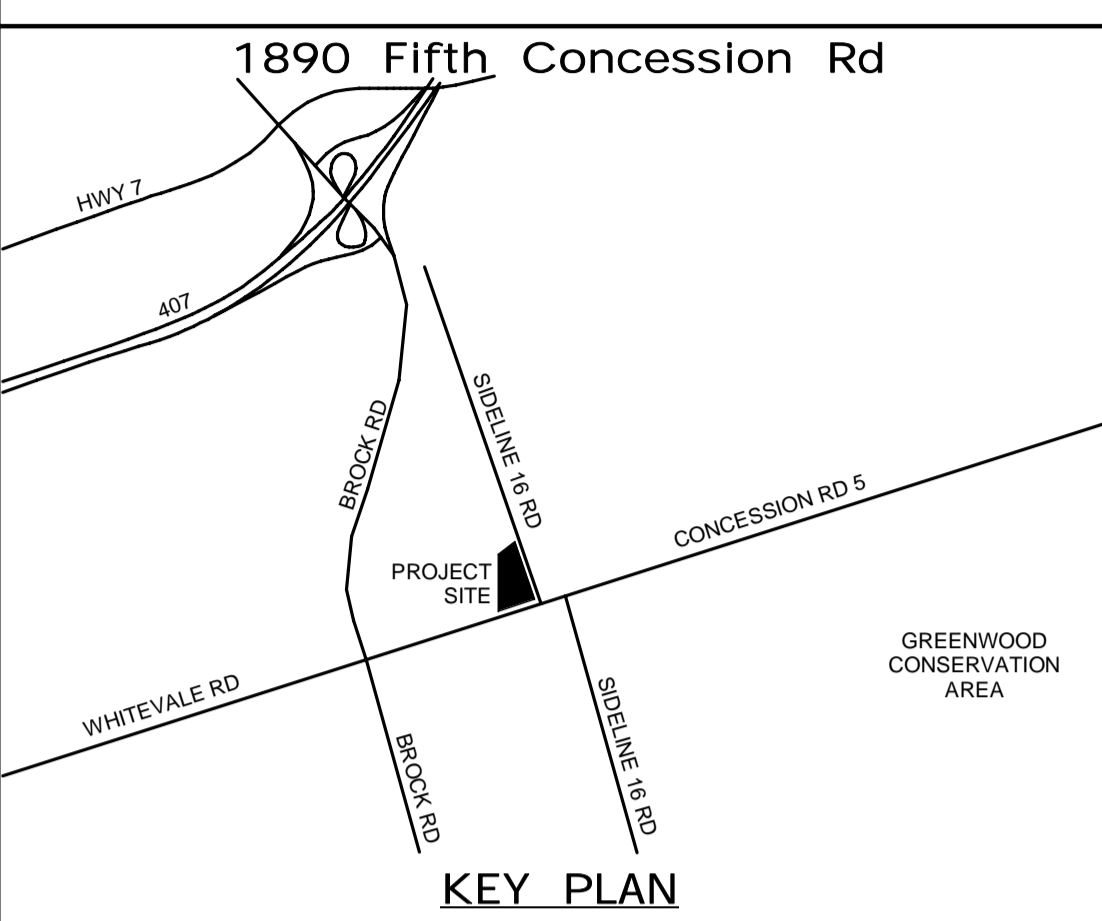
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| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 604 | SHEET NO. |

| EMERGENCY LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|-------------------------------------|--|--|--|-------------|------|------|----------------|---------------|--|
| TYPE | IMAGE | MANUFACTURER / MODEL | DESCRIPTION | INPUT WATTS | VOLT | LAMP | MOUNTING | CAT.# | NOTES |
| EX1 |  | LUMACELL/ LD SERIES OR APPROVED EQUAL | SINGLE FACE EXIT SIGN | 2.5W | 120 | LED | CEILING / WALL | LD1BAAC3 | WALL OR CEILING MOUNTED AS PER SYMBOLS ON PLANS. TO BE CONNECTED TO EMERGENCY LIGHTING CURCUIITS |
| |  | | | | | | | | |
| |  | | | | | | | | |
| |  | | | | | | | | |
| EX2 |  | LUMACELL/ LD SERIES OR APPROVED EQUAL | DOUBLE FACE EXIT SIGN | 2.5W | 120 | LED | CEILING | LD2BAAC3 | TO BE CONNECTED TO EMERGENCY LIGHTING CURCUIITS |
| |  | | | | | | | | |
| |  | | | | | | | | |
| |  | | | | | | | | |
| EX3 |  | LUMACELL/ LAC SERIES OR APPROVED EQUAL | SINGLE FACE COMBO EMERGENCY + EXIT LIGHT | 12.5 | 120 | LED | CEILING | LAC1B12502LD9 | TO BE CONNECTED TO EMERGENCY LIGHTING CURCUIITS |
| EX4 |  | LUMACELL/ LN SERIES OR APPROVED EQUAL | SINGLE FACE EXTERIOR EXIT SIGN | 2.5W | 120 | LED | WALL | LN1BU | TO BE CONNECTED TO EMERGENCY LIGHTING CURCUIITS |
| EM1 |  | LUMACELL/ MOM SERIES OR APPROVED EQUAL | DOUBLE HEAD REMOTE LAMP | 10W | 120 | LED | WALL | MOM2LD9 | TO BE CONNECTED TO EMERGENCY LIGHTING CURCUIITS |
| EM2 |  | LUMACELL/ RGC SERIES OR APPROVED EQUAL | DOUBLE HEAD REMOTE LAMP + BATTERY | 10W | 120 | LED | WALL | RG12C722LD9ZD | TO BE CONNECTED TO EMERGENCY LIGHTING CURCUIITS |

| LIGHTING CONTROLS MATRIX | | | | | | | | |
|--|---|---------------|---------|-------------------|-------------------|----------------|---------------------|--|
| SPACE TYPE | ROOM NAMES | MANUAL SWITCH | DIMMING | OCCUPANCY SENSING | PLUG LOAD CONTROL | SCHEDULE TIMER | DAYLIGHT HARVESTING | NOTES |
| ENTRIES & CORRIDORS | 101 VESTIBULE, 102 CORRIDOR, 102a CORRIDOR, 122 VESTIBULE, 107 CORRIDOR | | x | x | | x | | SCHEDULED DAY TIME FULL ON, SCHEDULED NIGHT TIME DIMMING TO 30%, AUTO FULL ON WITH OCCUPANCY SENSING OVERNIGHT. |
| SERVICE ROOMS SPACES | 124 MECH, 123 ELEC, 125 IT | x | | x | | | | PROVIDE LINE VOLTAGE CONTROLS. PROVIDE VACANCY SENSING TO AUTO OFF AFTER 30 MINUTES. |
| SUPPORT SPACES | 127 MED. STORAGE, 126 SECURED, 134 OXYGEN/LINEN, 132 WASH DOWN, 133 WASH AREA, 102B OXYGEN/LINEN, 115 STORAGE, 114 SIM LAB, 116 STORAGE, 120 JAN. RM., STORAGE 118, STORAGE 110 | x | x | x | x | | | AUTO ON AND OFF WITH OCCUPANCY SENSOR. SET AUTO OFF AFTER 15 MIN. PLUG LOAD CONTROL IS TO TIE IN TO ASSOCIATED EXHAUST FAN. |
| KITCHEN | KITCHEN 121, KITCHEN 104, 102A CLOSET | x | x | x | | | x | NO MORE THAN 50% OF THE LIGHTING SHALL BE TURNED ON AUTOMATICALLY. AUTO OFF AFTER 15 MINUTES. LOCAL CONTROL FOR PENDANT AND RECESSED POT LIGHTS. |
| BREAK ROOM | 105 LOUNGE | x | x | x | | | x | AUTO OFF AFTER 15 MIN. LOCAL CONTROL FOR PENDANTS AND RECESSED POT LIGHTS |
| LOCKER | 129 LOCKER | x | x | x | | | x | SET AUTO ON AND OFF. SET AUTO OFF AFTER 30 MINS. |
| WASHROOM | 128 GENDER NEUTRAL, 117 GENDER NEUTRAL, 119 UNIV W/R, 130 DECON. SHOWER | x | x | x | x | | | AUTO DIM TO 50% AFTER 150 SECONDS AND FULL OFF AFTER 5 MIN. PROVIDE AUTOMATIC RECEPTACLE CONTROL. AUTO OFF RECEPTACLES WITHIN 30 MINUTES. PROVIDE VACANCY SENSING TO AUTO OFF AFTER 30 MINUTES IN WASHROOM STALLS. PLUG LOAD CONTROL IS TO TIE IN TO ASSOCIATED EXHAUST FAN. |
| REPORT WRITING | 103 REPORT WRITING | x | x | x | x | | x | AUTO OFF AFTER 15 MIN. PROVIDE AUTOMATIC RECEPTACLE CONTROL. AUTO OFF RECEPTACLES WITHIN 30 MINUTES. |
| BREAKOUT | 109 BREAKOUT | x | x | x | x | | | AUTO OFF AFTER 15 MIN. PROVIDE AUTOMATIC RECEPTACLE CONTROL. AUTO OFF RECEPTACLES WITHIN 30 MINUTES. |
| CLASSROOM | 112 CLASSROOM, 113 CLASSROOM | x | x | x | x | | | AUTO OFF AFTER 15 MIN. LOCAL CONTROL FOR PENDANTS AND RECESSED POT LIGHTS. PROVIDE AUTOMATIC RECEPTACLE CONTROL. AUTO OFF RECEPTACLES WITHIN 30 MINUTES. |
| OPEN OFFICE | 108 OPEN OFFICE | x | x | x | x | | x | AUTO OFF AFTER 15 MIN. PROVIDE AUTOMATIC RECEPTACLE CONTROL. AUTO OFF RECEPTACLES WITHIN 30 MINUTES. |
| VEHICLE BAY | 131 VEHICLE BAY | x | | x | | | x | NO MORE THAN 50% OF THE LIGHTING SHALL BE TURNED ON AUTOMATICALLY. AUTO OFF AFTER 15 MINUTES. |
| NOTES: 1. LIGHTING CONTROL DEVICES SHOWN ON NEW LIGHTING PLANS ARE DIAGRAMATIC. COORDINATE EXACT QUANTITIES AND LOCATION OF DEVICES AND EQUIPMENT WITH THE LIGHTING CONTROL SUPPLIER. 2. PROVIDE ROOM CONTROLLERS WITH APPLICABLE FEATURES TO MEET LIGHTING CONTROLS MATRIX REQUIREMENTS AND SPECIFICATIONS SECTION 26 09 24 - LIGHTING CONTROL DEVICES. 3. PROVIDE ONE (1) LIGHTING ZONE PER ROOM UNLESS INDICATED OTHERWISE ON THE LIGHTING PLANS. 4. PROVIDE EACH OCCUPANCY SENSING ROOM CONTROL SYSTEM WITH AN INTERFACE DEVICE THAT INCLUDES A PAIR DRY CONTACTS FOR BAS INTEGRATION, ONE (1) PER LIGHTING ZONE. 5. PROVIDE LINE VOLTAGE CONTROLS IN THE SERVICE ROOMS. REST OF THE BUILDING INTERIOR SHALL BE DIGITAL LIGHTING CONTROLS. | | | | | | | | |

| INTERIOR LIGHTING FIXTURE SCHEDULE | | | | | | | | | | | |
|------------------------------------|---|---------------------------------------|---------------------|-------------|-------------|------|------|-------------------|-------------------------------------|--|--|
| TYPE | IMAGE | MANUFACTURER | MODEL | DESCRIPTION | INPUT WATTS | VOLT | LAMP | MOUNTING | CAT.# | NOTES | |
| A1 |  | COOPER / METALUX OR APPROVED EQUAL | CRUZE ST 2X2 | 3401 LUMEN | 24.2W | 120 | LED | RECESSED | 22CZ2-32-S-UNV-L840-CD1-U | PROVIDE 3/8" TWIN FLEX, 3 WIRES 18 GAUGE 6' FOR DIMMABLE LUMINARIES | |
| A2 |  | COOPER / METALUX OR APPROVED EQUAL | CRUZE ST 2X4 | 8094 LUMEN | 55.4W | 120 | LED | GRID RECESSED | 22CZ2-75HE-S-UNV-L840-CD1-U | PROVIDE 3/8" TWIN FLEX, 3 WIRES 18 GAUGE 6' FOR DIMMABLE LUMINARIES | |
| A3 |  | COOPER / METALUX OR APPROVED EQUAL | CRUZE ST 2X2 | 2226 LUMEN | 16.2 | 120 | LED | RECESSED | 22CZ2-20-S-UNV-L840-CD1-U | PROVIDE 3/8" TWIN FLEX, 3 WIRES 18 GAUGE 6' FOR DIMMABLE LUMINARIES | |
| B |  | EATON OR APPROVED EQUAL | CHAMP MLL HAZARDOUS | 7100 LUMEN | 55W | 120 | LED | SUSPENDED PENDANT | MLL4/UNV1 TF WH PEND HAZ KIT | 4' LINEAR WIDE BEAM GLASS LENS | |
| F |  | COOPER / METALUX OR APPROVED EQUAL | VT3 LED VAPORTITE | 6033 LUMEN | 51.1W | 120 | LED | CEILING SURFACE | 4VT3-LD5-6-G-UNV-L840-CD1-U | | |
| F1 |  | COOPER / METALUX OR APPROVED EQUAL | VT3 LED VAPORTITE | 4116 LUMEN | 32.24 | 120 | LED | CEILING SURFACE | 4VT3-LD5-4-G-UNV-L840-CD1-U | | |
| F2 |  | COOPER / METALUX OR APPROVED EQUAL | VT3 LED VAPORTITE | 3099 LUMEN | 23.92 | 120 | LED | CEILING SURFACE | 2VT3-LD5-3-G-UNV-L840-CD1-U | | |
| FS |  | COOPER / METALUX OR APPROVED EQUAL | VT3 LED VAPORTITE | 6033 LUMEN | 44W | 120 | LED | SUSPENDED PENDANT | 4VT3-LD5-6-G-UNV-L840-CD1-U | | |
| H |  | COOPER / METALUX OR APPROVED EQUAL | OHB HIGH BAY | 11883 LUMEN | 67.5W | 120 | LED | PENDANT | OHB-12HE-MFL-UNV-L840-CD-U | | |
| L |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 2672 LUMEN | 26.3W | 120 | LED | RECESSED | S122DR-S675D840-4F0-1-UDD-F-W | | |
| L1 |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 2672 LUMEN | 26.3W | 120 | LED | RECESSED | S122DR-S675D840-X4F0-1-UDD-F-W | CONTINUOUS RUN 9000mm (CUSTOM LENGTH) | |
| L2 |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 2672 LUMEN | 26.3W | 120 | LED | RECESSED | S122DR-S675D840-GYP-16F0-1-UDD-F-W | CONTINUOS RUN RECESSED IN DRYWALL CEILING. LENGTH TO SUIT | |
| L3 |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 2672 LUMEN | 26.3W | 120 | LED | RECESSED | S122DR-S675D840-GYP-08F0-1-UDD-F-W | CONTINUOS RUN RECESSED IN DRYWALL CEILING. LENGTH TO SUIT | |
| L4A |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 1167 LUMEN | 11.6W | 120 | LED | RECESSED | S122DR-S290D840-ETG-X4F0-1-UDD-F-W | CONTINUOUS PATTERN C/W 90° CORNERS RECESSED IN T-BAR CEILING. LENGTH TO SUIT | |
| L4B |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 1167 LUMEN | 11.6W | 120 | LED | RECESSED | S122DR-S290D840-ETG-16F0-1-UDD-F-W | 16'X2" RUN RECESSED IN T-BAR CEILING. | |
| L4C |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 1167 LUMEN | 11.6W | 120 | LED | RECESSED | S122DR-S290D840-ETG-124F0-1-UDD-F-W | 12'X2" RUN RECESSED IN T-BAR CEILING. | |
| L5 |  | COOPER NEORAY OR APPROVED EQUAL | NEORAY DEFINE 2 | 1859 LUMEN | 17.2W | 121 | LED | RECESSED | S122DR-H485D840-X4F0-1-UDD-F-W | | |
| LS |  | LEDALITE BY SIGNIFY OR APPROVED EQUAL | NEORAY DEFINE 2 | 2537 LUMEN | 20.3 | 120 | LED | SUSPENDED | S122DIP-S290D330U840-4F0-S-UDD-F | | |
| P |  | Beta-Calco Inc. OR APPROVED EQUAL | CERCHIO II | 4080 LUMEN | 48W | 120 | LED | SUSPENDED | AE1-BH4-BF1-BG1 | | |
| T4 |  | ARON OR APPROVED EQUAL | ACE T-BAR | 961 LUMEN | 10.1W | 120 | LED | T-BAR | ACET1-2FA-1000-B1-3500K-80-UNV-DM | | |
| Q |  | COOPER OR APPROVED EQUAL | HALO COMMERCIAL | 2000 LUMEN | 20W | 120 | LED | RECESSED | HC620D010-HM612840-61WDW | | |
| Q1 |  | COOPER OR APPROVED EQUAL | HALO COMMERCIAL | 1026 LUMEN | 10W | 121 | LED | RECESSED | HC610D010-HM612840-61WDW | | |
| Q2 |  | COOPER OR APPROVED EQUAL | HALO COMMERCIAL | 1422 LUMEN | 14 | 120 | LED | RECESSED | HC615D010-HM612840-61WDW | | |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



| CONSULTANT REVISIONS | | | |
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LICENSED PROFESSIONAL ENGINEER
Mar 21, 2022
W E MOHAMED ALI
100186996
PROVINCE OF ONTARIO

SUB CONSULTANT

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| DESIGN BY: GR | SCALE: |
| DRAWN BY: HD | DATE: 11/07/20 |
| CHECKED BY: WA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: WA | CLIENT FILE No.: 811/20 |

| CONTRACT REVISIONS | | | |
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| 3 | 03/14/2022 | ISSUED FOR CONSTRUCTION | |
| 2 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| 1 | 09/22/21 | ISSUED FOR TENDER | |
| NO | DATE | NAME | REVISIONS |

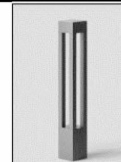





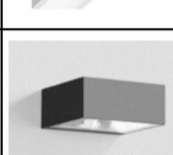


THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

| NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL SCHEDULES | | |
|--|--------------------|-------------------------------------|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 701 | SHEET NO. |

| SITE LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|--------------------------------|---|----------------------------------|-------------|-------------|------|------|---------------------------------------|-----------------------------------|------------------------------|
| TYPE | IMAGE | MANUFACTURER / MODEL | DESCRIPTION | INPUT WATTS | VOLT | LAMP | MOUNTING | CAT.# | NOTES |
| B1 |  | BEGA | 1363 LUMEN | 23 W | 120 | LED | BOLLARD | BEGA 84_063_K3 BOLLARD | 6000mm AFG (POLE+BASE) |
| P1 |  | COOPER / GLEON OR APPROVED EQUAL | 18848 LUMEN | 225 W | 120 | LED | MOUNTED @ 6000mm (19'9") | GLEON-AF-04-LED-E1-SL4-7030-HSS | |
| P1-1 |  | COOPER / GLEON OR APPROVED EQUAL | 5475 LUMEN | 59 W | 120 | LED | MOUNTED @ 6000mm (19'9") | GLEON SA1C-730-U-SL4-HSS | 6000mm AFG (POLE+BASE) |
| P2 |  | COOPER / GLEON OR APPROVED EQUAL | 19839 LUMEN | 225 W | 120 | LED | MOUNTED @ 6000mm (19'9") | GLEON-AF-04-LED-E1-SL3-7030-HSS | 6000mm AFG (POLE+BASE) |
| P2-2 |  | COOPER / GLEON OR APPROVED EQUAL | 19839 LUMEN | 225 W | 120 | LED | MOUNTED BACK-TO-BACK @ 6000mm (19'9") | 2-GLEON-AF-04-LED-E1-SL3-7030-HSS | BACK-TO-BACK CONFIGURATION |
| L4 |  | COOPER/ NEORAY | 1167 | 11.6 | 120 | LED | SUSPENDED @ 3000 mm (9'10") | S122DR-S290D840-F0-UDD-F-W | SUSPENDED FLUSH WITH CEILING |
| W3 |  | BEGA WALL LUMINAIRE | 2187 LUMEN | 21 W | 120 | LED | WALL MOUNTED @ 3300mm (10'9") | BEGA 22_383_K3 | |

Panel ID: PP2HA

Location: CORRIDOR 102
Supply From: TX-2HA
Mounting: RECESSED
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 400 A
MCB Rating: N/A

| Description | Wire | BRK LC K. | Breaker | Poles | CC T | A | B | C | CC T | Poles | Breaker | BRK LC K. | Wire | Description |
|------------------------|------|-----------------|---------|-------|---------|-----------------|----------------|-----------------|---------|-------|---------|-----------------|------|------------------------|
| WASH AREA RECEP | | | 15 A | 1 | 1 | 180 VA 380 VA | | | 2 | 1 | 15 A | | | BAY AREA RECEP |
| WASHROOM RECEP | | | 15 A | 1 | 3 | | 180 VA 360 VA | | 4 | 1 | 15 A | | | BAY AREA RECEP |
| OVERHEAD DOOR | | | 15 A | 3 | 5 | | | 200 VA 540 VA | 6 | 1 | 15 A | | | BAY/STORAGE AREA RECEP |
| -- | -- | | -- | -- | 7 | 200 VA 360 VA | | | 8 | 1 | 15 A | | | BAY AREA RECEP |
| -- | -- | | -- | -- | 9 | | 200 VA 180 VA | | 10 | 1 | 15 A | | | WASHROOM RECEP |
| WASHROOM RECEP | | | 15 A | 1 | 11 | | | 600 VA 200 VA | 12 | 1 | 15 A | | | WASHROOM RECEP |
| BAY STORAGE RECEP | | | 15 A | 1 | 13 | 400 VA 400 VA | | | 14 | 1 | 15 A | | | FRIDGE |
| KITCHEN RECEP | | | 15 A | 1 | 15 | | 600 VA 1200... | | 16 | 1 | 15 A | | | DISHWASHER |
| STOVE | | | 15 A | 1 | 17 | | | 200 VA 1100... | 18 | 1 | 15 A | | | KITCHEN RECEP |
| MICROWAVE | | | 15 A | 1 | 19 | 1100... 600 VA | | | 20 | 1 | 15 A | | | LOUNGE AREA RECEP |
| REPORT RM FURN. RECEP | | | 15 A | 1 | 21 | | 200 VA 200 VA | | 22 | 1 | 15 A | | | REPORT RM FURN. RECEP |
| REPORT RM FURN. RECEP | | | 15 A | 1 | 23 | | | 200 VA 400 VA | 24 | 1 | 15 A | | | REPORT RM RECEP |
| REPORT RM FURN. RECEP | | | 15 A | 1 | 25 | 200 VA 400 VA | | | 26 | 1 | 15 A | | | LOUNGE AREA RECEP |
| REPORT RM FURN. RECEP | | | 15 A | 1 | 27 | | 200 VA 300 VA | | 28 | 1 | 15 A | | | PDO EXT |
| REPORT RM FURN. RECEP | | | 15 A | 1 | 29 | | | 200 VA 300 VA | 30 | 1 | 15 A | | | PDO VESTIBULE RM 101 |
| REPORT RM FURN. RECEP | | | 15 A | 1 | 31 | 200 VA 200 VA | | | 32 | 3 | 15 A | | | OVERHEAD DOOR |
| REPORT RM FURN. RECEP | | | 15 A | 1 | 33 | | 200 VA 200 VA | | 34 | -- | -- | -- | -- | -- |
| OVERHEAD DOOR | | | 15 A | 3 | 35 | | | 200 VA 200 VA | 36 | -- | -- | -- | -- | -- |
| -- | -- | | -- | -- | 37 | 200 VA 1440... | | | 38 | 1 | 15 A | | | VEHICLE BAY POWER DROP |
| -- | -- | | -- | -- | 39 | | 200 VA 1440... | | 40 | 1 | 15 A | | | VEHICLE BAY POWER DROP |
| VEHICLE BAY POWER DROP | | | 15 A | 1 | 41 | | | 1440... 1440... | 42 | 1 | 15 A | | | VEHICLE BAY POWER DROP |
| VEHICLE BAY POWER DROP | | | 15 A | 1 | 43 | 1440... 1440... | | | 44 | 1 | 15 A | | | VEHICLE BAY POWER DROP |
| OVERHEAD DOOR | | | 15 A | 3 | 45 | | 200 VA 200 VA | | 46 | 3 | 15 A | | | OVERHEAD DOOR |
| -- | -- | | -- | -- | 47 | | | 200 VA 200 VA | 48 | -- | -- | -- | -- | -- |
| -- | -- | | -- | -- | 49 | 200 VA 200 VA | | | 50 | -- | -- | -- | -- | -- |
| OVERHEAD DOOR | | | 15 A | 3 | 51 | | 200 VA 200 VA | | 52 | 1 | 15 A | | | MECH RM RECEP |
| -- | -- | | -- | -- | 53 | | | 200 VA 200 VA | 54 | 1 | 15 A | | | MOH RECEP |
| -- | -- | | -- | -- | 55 | 200 VA 200 VA | | | 56 | 1 | 15 A | | | IT RM RECEP |
| IT RM RECEP | | | 15 A | 1 | 57 | | 200 VA 200 VA | | 58 | 1 | 15 A | | | IT RM RECEP |
| IT RM RECEP | | | 15 A | 1 | 59 | | | 200 VA 200 VA | 60 | 1 | 15 A | | | IT RM RECEP |
| ELEC RM RECEP | | | 15 A | 1 | 61 | 400 VA 800 VA | | | 62 | 1 | 15 A | | | BAS PANEL |
| SPARE | | | 20 A | 1 | 63 | | 0 VA 0 VA | | 64 | 1 | 20 A | | | SPARE |
| SPARE | | | 20 A | 1 | 65 | | | 0 VA 800 VA | 66 | 1 | 15 A | | | BAS PANEL |
| SPARE | | | 15 A | 1 | 67 | 0 VA 200 VA | | | 68 | 1 | 15 A | | | RECEPT |
| SPARE | | | 15 A | 1 | 69 | | 0 VA 600 VA | | 70 | 1 | 15 A | | | RECEPT |
| SPARE | | | 15 A | 1 | 71 | | | 0 VA 180 VA | 72 | 1 | 15 A | | | COURTYARD RE |

| Panel ID: PP2LA | | | | | | | | | |
|---------------------------|--|--|--|--|----------------------------|--|--|--|--|
| Location: ELEC 123 | | | | | Volts: 120/208 Vye | | | | |
| Supply From: TX-2L | | | | | Mains Rating: 100 A | | | | |
| Mounting: SURFACE | | | | | Wires: 4 | | | | |
| Enclosure: TYPE 1 | | | | | Lugs: MCB | | | | |
| A.I.C. Rating: 10k | | | | | MCB Rating: 100A | | | | |

| Description | Wire | BK .LC K. | Breaker | Poles | CC T | A | | B | | C | | CC T | Poles | Breaker | BK .LC K. | Wire | Description |
|-------------------------------|-------------|-----------------|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|-----------------|---------------|------------------------------|
| LIGHTING RM 131 | | | 15 A | 1 | 1 | 405 VA | 82 VA | | | | | 2 | 1 | 15 A | | | LIGHTING EXTERIOR EXT |
| LIGHTING RM 131 | | | 15 A | 1 | 3 | | | 405 VA | 164 VA | | | 4 | 1 | 15 A | | | LIGHTING VESTIBULE 122 |
| LIGHTING RM 132, 133 | | | 15 A | 1 | 5 | | | | | 204 VA | 287 VA | 6 | 1 | 15 A | | | LIGHTING CORRIDOR 102 |
| LIGHTING RM 102 | | | 15 A | 1 | 7 | 97 VA | 73 VA | | | | | 8 | 1 | 15 A | | | LIGHTING CORRIDOR 102a |
| LIGHTING RM 124 | | | 15 A | 1 | 9 | | | 307 VA | 150 VA | | | 10 | 1 | 15 A | | | LIGHTING RM 129 |
| LIGHTING RM 123 | | | 15 A | 1 | 11 | | | | | 153 VA | 82 VA | 12 | 1 | 15 A | | | LIGHTING VESTIBULE 101 |
| LIGHTING RM 127, 126, 125 | | | 15 A | 1 | 13 | 320 VA | 82 VA | | | | | 14 | 1 | 15 A | | | LIGHTING EXTERIOR EXT |
| LIGHTING EM 102B, 134 | | | 15 A | 1 | 15 | | | 158 VA | 12 VA | | | 16 | 1 | 15 A | ON | | EMERG/EXIT RM - 133, 135 |
| LIGHTING RM 128 | | | 15 A | 1 | 17 | | | | | 374 VA | 7 VA | 18 | 1 | 15 A | ON | | EMERG/EXIT VEHICLE BAY |
| LIGHTING RM 128, 130 | | | 15 A | 1 | 19 | 305 VA | 11 VA | | | | | 20 | 1 | 15 A | ON | | EMERG/EXIT RM - 123,124, 125 |
| EMERG/EXIT RM - 102, 122 | | ON | 15 A | 1 | 21 | | | 17 VA | 10 VA | | | 22 | 1 | 15 A | ON | | EMERG/EXIT RM - 127, 128 |
| EMERG/EXIT RM - 101, 102a,... | | ON | 15 A | 1 | 23 | | | | | 8 VA | 16 VA | 24 | 1 | 15 A | ON | | EMERG/EXIT RM 123,124 |
| SITE LIGHTING | 2#6AWG+GND | | 15 A | 1 | 25 | 960 VA | 675 VA | | | | | 26 | 1 | 15 A | | 2#10AWG+GND | SITE LIGHTING |
| SITE LIGHTING | | | 15 A | 1 | 27 | | | 275 VA | 250 VA | | | 28 | 1 | 15 A | | | EXTERIOR SIGNAGE |
| EXTERIOR SIGNAGE | 2#10AWG+GND | | 15 A | 1 | 29 | | | | | 250 VA | 400 VA | 30 | 1 | 15 A | | | EXTERIOR WALL MT LTG |
| SPARE | | | 15 A | 1 | 31 | 0 VA | 400 VA | | | | | 32 | 1 | 20 A | | | EXTERIOR SIGNAGE |
| SPARE | | | 15 A | 1 | 33 | | | 0 VA | 1837... | | | 34 | 3 | 100 A | -- | 4#3+GND IN... | PP2LB |
| SPARE | | | 15 A | 1 | 35 | | | | | 0 VA | 2809... | 36 | -- | -- | -- | | -- |
| SPARE | | | 20 A | 1 | 37 | 0 VA | 2396... | | | | | 38 | -- | -- | -- | | -- |
| SPARE | | | 20 A | 1 | 39 | | | 0 VA | | | | 40 | | | | | |
| SPARE | | | 20 A | 1 | 41 | | | | | 0 VA | | 42 | | | | | |
| Total Load: | | | | | | 5799 VA | | 3558 VA | | 4583 VA | | | | | | | |
| Total Amps: | | | | | | 50 A | | 30 A | | 40 A | | | | | | | |

| | |
|--------------------------------|----------|
| Total Connected Load: | 13937 VA |
| Estimated Demand Load: | 13937 VA |
| Total Connected Current | 39 A |

Panel ID: PP2EV

Location: ELEC 123

Supply From: TX-2EV

Mounting: SURFACE

Enclosure: TYPE1

Volts: 120/208 Vye

Phases: 3

Wires: 4

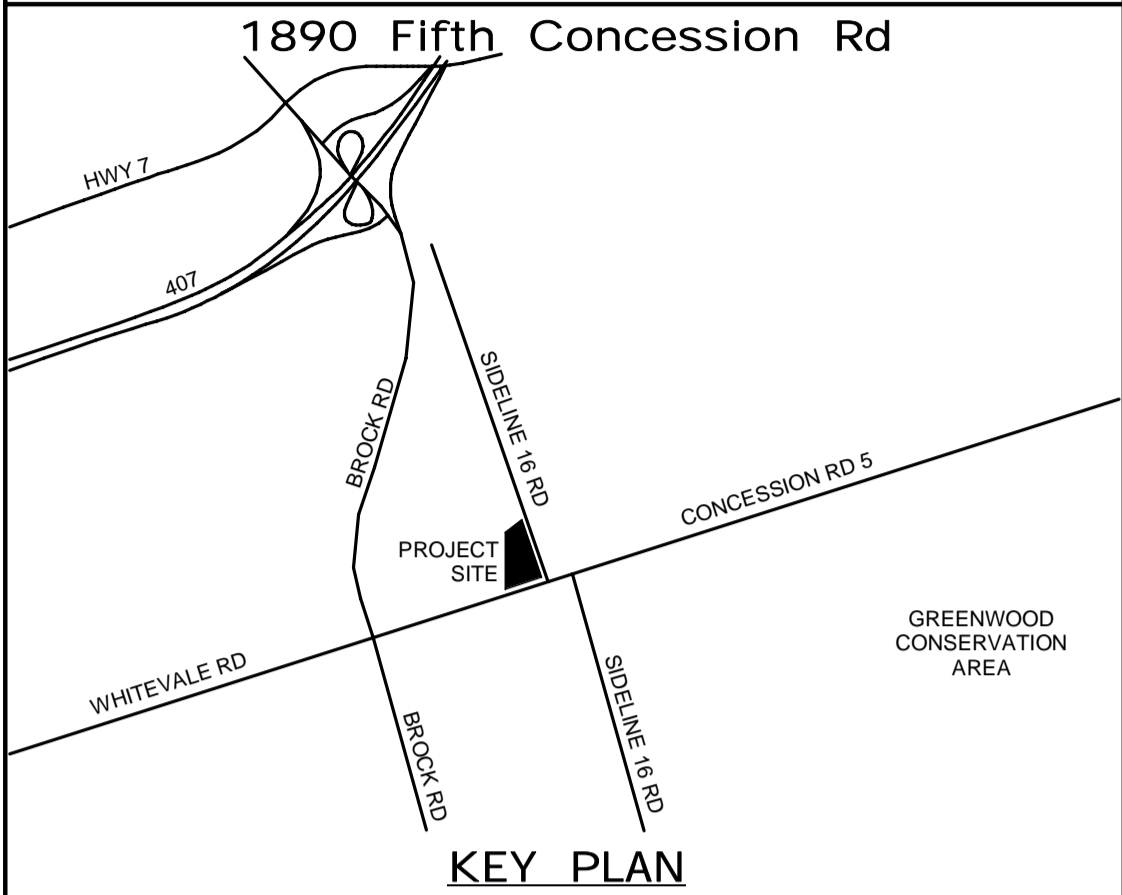
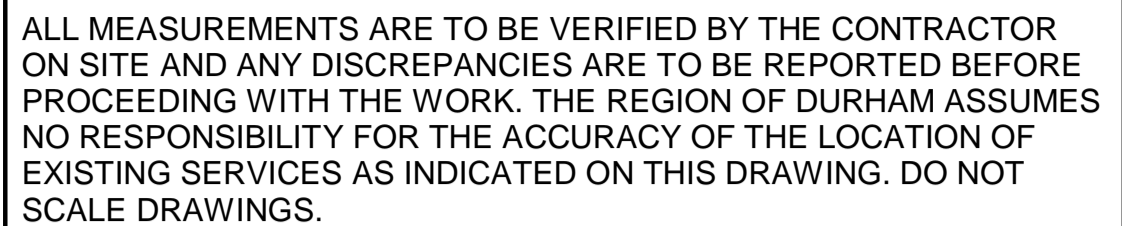
Lugs: MCB

A.I.C. Rating: 10kAIC

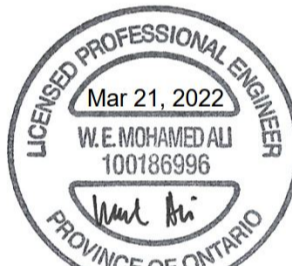
Mains Rating: 400 A

MCB Rating: 400A

| Description | Wire | BRK LC K. | Breake r | Poles | CC T | A | B | C | CC T | Poles | Breake r | BRK LC K. | Wire | Description | |
|-------------|---------------|-----------------|-------------|-------|---------|-----------------|-----------------|-----------|-------------------------|-------|-------------|-----------------|---------------|-------------|----------|
| EV CHARGER | 2#8 AWG IN... | | 40 A | 2 | 1 | 3500... 3500... | | | 2 | 2 | 40 A | | 2#8 AWG IN... | EV CHARGER | |
| -- | -- | | -- | -- | 3 | | 3500... 3500... | | 4 | -- | -- | -- | -- | -- | |
| SPARE | -- | | 40 A | 2 | 5 | | | 0 VA 0 VA | 6 | 2 | 40 A | | -- | SPARE | |
| -- | -- | | -- | -- | 7 | 0 VA 0 VA | | | 8 | -- | -- | -- | -- | -- | |
| SPARE | -- | | 40 A | 2 | 9 | | 0 VA 0 VA | | 10 | 2 | 40 A | | -- | SPARE | |
| -- | -- | | -- | -- | 11 | | | 0 VA 0 VA | 12 | -- | -- | -- | -- | -- | |
| SPARE | -- | | 40 A | 2 | 13 | 0 VA 0 VA | | | 14 | 2 | 40 A | | -- | SPARE | |
| -- | -- | | -- | -- | 15 | | 0 VA 0 VA | | 16 | -- | -- | -- | -- | -- | |
| SPARE | -- | | 40 A | 2 | 17 | | | 0 VA 0 VA | 18 | 2 | 40 A | | -- | SPARE | |
| -- | -- | | -- | -- | 19 | 0 VA 0 VA | | | 20 | -- | -- | -- | -- | -- | |
| | | | | | 21 | | | | 22 | | | | | | |
| | | | | | 23 | | | | 24 | | | | | | |
| | | | | | 25 | | | | 26 | | | | | | |
| | | | | | 27 | | | | 28 | | | | | | |
| | | | | | 29 | | | | 30 | | | | | | |
| | | | | | 31 | | | | 32 | | | | | | |
| | | | | | 33 | | | | 34 | | | | | | |
| | | | | | 35 | | | | 36 | | | | | | |
| | | | | | 37 | | | | 38 | | | | | | |
| | | | | | 39 | | | | 40 | | | | | | |
| | | | | | 41 | | | | 42 | | | | | | |
| Total Load: | | | | | | 7000 VA | 7000 VA | 0 VA | Total Connected Load: | | | | | | 14000 VA |
| Total Amps: | | | | | | 67 A | 67 A | 0 A | Estimated Demand Load: | | | | | | 14000 VA |
| | | | | | | | | | Total Estimated Current | | | | | | 39 A |




| | | | |
|----------------------|-------|------|-----------|
| CONSULTANT REVISIONS | | | |
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| NO. | DATE. | NAME | REVISIONS |

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| <p>PRIME CONSULTANT</p> <h1 style="text-align: center;">AECOM</h1> <p>AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p> |  |
| <p>SUB CONSULTANT</p> | |

| | |
|-----------------|---------------------------------|
| DESIGN BY: GR | SCALE: |
| DRAWN BY: HD | DATE: 04/12/21 |
| CHECKED BY: WA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: WA | CLIENT FILE No.: 811/20 |

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| | | | |
| 3 | 03/14/2022 | | ISSUED FOR CONSTRUCTION |
| 2 | 10/18/21 | | RESPONSE TO CITY COMMENTS |
| 1 | 09/22/21 | | ISSUED FOR TENDER |
| NO | DATE | NAME | REVISIONS |



THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL SCHEDULES

| | | |
|-------------------------------|-----------------------|--|
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. P061- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 702 | SHEET NO. |

Panel ID: PP2LB

Location: CLOSET 107A
Supply From: PP2LA
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 100 A
MCB Rating: N/A

| Description | Wire | BRK .LC K. | Breake r | Poles | CC T | A | B | C | CC T | Poles | Breake r | BRK .LC K. | Wire | Description |
|-------------------------------|------|------------------|-------------|-------|---------|---------------|---------------|---------------|---------|-------|-------------|------------------|------|-------------------------------|
| LIGHTING RM 103 | | | 15 A | 1 | 1 | 145 VA 210 VA | | | 2 | 1 | 15 A | | | LIGHTING RM 117 |
| LIGHTING RM 104, 105 | | | 15 A | 1 | 3 | | 352 VA 60 VA | | 4 | 1 | 15 A | | | LIGHTING RM 122 |
| LIGHTING RM 108 | | | 15 A | 1 | 5 | | | 312 VA 574 VA | 6 | 1 | 15 A | | | LIGHTING RM 113 |
| LIGHTING RM 109, 110, 111 | | | 15 A | 1 | 7 | 190 VA 40 VA | | | 8 | 1 | 15 A | | | LIGHTING CLOSET 107A |
| LIGHTING RM 112 | | | 15 A | 1 | 9 | | 396 VA 574 VA | | 10 | 1 | 15 A | | | LIGHTING RM, 112 |
| LIGHTING RM 113 | | | 15 A | 1 | 11 | | | 406 VA | 12 | | | | | |
| LIGHTING RM 107 | | | 15 A | 1 | 13 | 266 VA 20 VA | | | 14 | 1 | 15 A | | | LIGHTING CLOSET 102A |
| LIGHTING RM 115, 114 | | | 15 A | 1 | 15 | | 290 VA 246 VA | | 16 | 1 | 15 A | | | LIGHTING RM 104 |
| LIGHTING RM 116, 107, 121,... | | | 15 A | 1 | 17 | | | 315 VA 328 VA | 18 | 1 | 15 A | | | LIGHTING RM 105 |
| LIGHTING RM 117, 120 | | | 15 A | 1 | 19 | 287 VA 12 VA | | | 20 | 1 | 15 A | ON | | EMERG/EXIT RM - 114, 113 |
| EMERG/EXIT RM - 117, 119,.... | | ON | 15 A | 1 | 21 | | 9 VA 15 VA | | 22 | 1 | 15 A | ON | | EMERG/EXIT CORRIDOR 107 |
| EMERG/EXIT RM - 112 | | ON | 15 A | 1 | 23 | | | 7 VA 10 VA | 24 | 1 | 15 A | ON | | EMERG/EXIT OPEN OFFICE.... |
| EMERG/EXIT RM - 103, 104 | | ON | 15 A | 1 | 25 | 9 VA 508 VA | | | 26 | 1 | 15 A | | | PH 2 - LIGHTING RM 203 |
| PH 2 - LIGHTING RM 205, 206 | | | 15 A | 1 | 27 | | 145 VA 244 VA | | 28 | 1 | 15 A | | | PH 2 - LIGHTING RM, 201, 207 |
| PH 2 - LIGHTING RM 204 | | | 15 A | 1 | 29 | | | 284 VA 162 VA | 30 | 1 | 15 A | | | PH 2 - LIGHTING |
| PH 2 - LIGHTING RM 204 | | | 15 A | 1 | 31 | 164 VA 6 VA | | | 32 | 1 | 15 A | ON | | PH 2 - EMERG/EXIT RM 202,.... |
| PH 2 - EMERG/EXIT 201 | | ON | 15 A | 1 | 33 | | 4 VA 484 VA | | 34 | 1 | 15 A | | | PH 2 - LIGHTING RM 202 |
| SPARE | | | 20 A | 1 | 35 | | | 0 VA 2 VA | 36 | 1 | 15 A | ON | | PH 2 - EMERG RM 204 |
| SPARE | | | 20 A | 1 | 37 | 0 VA 0 VA | | | 38 | 1 | 20 A | | | SPARE |
| SPARE | | | 15 A | 1 | 39 | | 0 VA 0 VA | | 40 | 1 | 15 A | | | SPARE |
| SPARE | | | 15 A | 1 | 41 | | | 0 VA | 42 | | | | | |
| Total Load: | | | | | | 1837 VA | 2809 VA | 2396 VA | | | | | | |
| Total Amps: | | | | | | 15 A | 24 A | 21 A | | | | | | |
| Total Connected Load: | | | | | | | | | | | | | | 7041 VA |
| Estimated Demand Load: | | | | | | | | | | | | | | 7041 VA |
| Total Connected Current | | | | | | | | | | | | | | 20 A |

Panel ID: PP2MA

Location: ELEC 123
Supply From: TX-2MA
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 400 A
MCB Rating: N/A

| Description | Wire | BRK .LC K. | Breake r | Poles | CC T | A | B | C | CC T | Poles | Breake r | BRK .LC K. | Wire | Description |
|--------------------------|------|------------------|-------------|-------|---------|----------------|----------------|----------------|---------|-------|-------------|------------------|---------------|---------------------------|
| DF-1 | | | 15 A | 3 | 1 | 693 VA 693 VA | | | 2 | 3 | 15 A | | | DF-2 |
| -- | -- | | -- | -- | 3 | | 693 VA 693 VA | | 4 | -- | -- | | -- | -- |
| -- | -- | | -- | -- | 5 | | | 693 VA 693 VA | 6 | -- | -- | | -- | -- |
| ERV-1 ENERGY RECOVERY... | | | 15 A | 3 | 7 | 287 VA 0 VA | | | 8 | 1 | 15 A | | | ERV-1 Lighting |
| -- | -- | | -- | -- | 9 | | 287 VA 2000... | | 10 | 2 | 30 A | | 2#10 IN 27mmC | CU-1 |
| -- | -- | | -- | -- | 11 | | | 287 VA 2000... | 12 | -- | -- | | -- | -- |
| DOAS-1 LIGHTING | | | 15 A | 1 | 13 | 100 VA 0 VA | | | 14 | 3 | 15 A | | | DOAS-1 ENERGY RECOVERY... |
| UH-1 | | | 15 A | 1 | 15 | | 200 VA 0 VA | | 16 | -- | -- | | -- | -- |
| EF-1 | | | 15 A | 1 | 17 | | 300 VA 0 VA | | 18 | -- | -- | | -- | -- |
| TSP | | | 15 A | 1 | 19 | 100 VA 250 VA | | | 20 | 1 | 15 A | | | FC-6 |
| EF-8 | | | 15 A | 1 | 21 | | 55 VA 100 VA | | 22 | 1 | 15 A | | | TSP |
| FC-5 | | | 15 A | 1 | 23 | | | 980 VA 600 VA | 24 | 1 | 15 A | | | CT - 3 AND 2 |
| CT - 3 AND 4 | | | 15 A | 1 | 25 | 600 VA 300 VA | | | 26 | 1 | 15 A | | | G-1 |
| WS-1 AND WS-2 | | | 15 A | 1 | 27 | | 600 VA 0 VA | | 28 | 1 | 20 A | | | EF-2 |
| | | | | | 29 | | | 220 VA | 30 | 1 | 15 A | | | FF-2 |
| | | | | | 31 | | | | 32 | | | | | |
| | | | | | 33 | | 0 VA | | 34 | 1 | 15 A | | | SPARE |
| | | | | | 35 | | | 80 VA | 36 | 1 | 15 A | | | EF-4 |
| EF-5 | | | 15 A | 1 | 37 | 55 VA | | | 38 | | | | | |
| | | | | | 39 | | | | 40 | | | | | |
| IT Servers | | | 20 A | 2 | 41 | | 0 VA 6000... | 0 VA 6000... | 42 | 3 | 60 A | | 3#4 IN 35mmC | EWH-2 |
| -- | -- | | -- | -- | 43 | 0 VA 6000... | | | 44 | -- | -- | | -- | -- |
| VAV | | X | 15 A | 1 | 45 | | 200 VA 6000... | | 46 | -- | -- | | -- | -- |
| | | | | | 47 | | | 6000... | 48 | 3 | 60 A | | 3#4 IN 35mmC | EWH-1 |
| | | | | | 49 | | 6000... | | 50 | -- | -- | | -- | -- |
| | | | | | 51 | | | 6000... | 52 | -- | -- | | -- | -- |
| | | | | | 53 | | | 200 VA | 54 | 1 | 15 A | | | HVAC |
| | | | | | 55 | | | | 56 | | | | | |
| | | | | | 57 | | 100 VA | | 58 | 1 | 15 A | | | DOMESTIC HOT WATER PUMP |
| | | | | | 59 | | | | 60 | | | | | |
| VAV | | X | 15 A | 1 | 63 | | 200 VA | | 62 | | | | | |
| | | | | | 64 | | | | 66 | | | | | |
| | | | | | 67 | | | | 68 | | | | | |
| P-9 | | | 15 A | 1 | 69 | | 300 VA 1333... | | 70 | 3 | 15 A | | | DOAS-1 SUPPLY FAN |
| DOAS-1 EXHAUST FAN | | | 15 A | 3 | 71 | | | 667 VA 1333... | 72 | -- | -- | | -- | -- |
| -- | -- | | -- | -- | 73 | 667 VA 1333... | | | 74 | -- | -- | | -- | -- |
| -- | -- | | -- | -- | 75 | | 667 VA 0 VA | | 76 | 1 | 20 A | | | SPARE |
| SPARE | | | 20 A | 1 | 77 | | | 0 VA 0 VA | 78 | 1 | 20 A | | | SPARE |
| SPARE | | | 15 A | 1 | 79 | 0 VA | | | 80 | | | | | |
| SPARE | | | 15 A | 1 | 81 | | 0 VA | | 82 | | | | | |
| SPARE | | | 15 A | 1 | 83 | | | 0 VA | 84 | | | | | |
| Total Load: | | | | | | 17078 VA | 19428 VA | 20053 VA | | | | | | |
| Total Amps: | | | | | | 142 A | 165 A | 170 A | | | | | | |
| Total Connected Load: | | | | | | | | | | | | | | 56560 VA |
| Estimated Demand Load: | | | | | | | | | | | | | | 55692 VA |
| Total Connected Current | | | | | | | | | | | | | | 157 A |

Panel ID: PP2HB

Location: CLOSET 107A
Supply From: TX2-HB
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 225 A
MCB Rating: N/A

| Description | Wire | BRK .LC K. | Breake r | Poles | CC T | A | B | C | CC T | Poles | Breake r | BRK .LC K. | Wire | Description |
|--------------------------|------|------------------|-------------|-------|---------|-----------------|----------------|-----------------|---------|-------|-------------|------------------|------|--------------------------|
| KITCHEN RECEP | | | 15 A | 1 | 1 | 200 VA 180 VA | | | 2 | 1 | 15 A | | | KITCHEN RECEP |
| STOVE | | | 15 A | 1 | 3 | | 1400... 200 VA | | 4 | 1 | 15 A | | | KITCHEN RECEP |
| MICROWAVE | | | 15 A | 1 | 5 | | | 1100... 1100... | 6 | 1 | 15 A | | | MICROWAVE |
| MICROWAVE | | | 15 A | 1 | 7 | 1100... 1100... | | | 8 | 1 | 15 A | | | MICROWAVE |
| KITCHEN RECEP | | | 15 A | 1 | 9 | | 200 VA 400 VA | | 10 | 1 | 15 A | | | KITCHEN RECEP |
| KITCHEN RECEP | | | 15 A | 1 | 11 | | | 400 VA 180 VA | 12 | 1 | 15 A | | | WASHROOM RECEP |
| WASHROOM RECEP | | | 15 A | 1 | 13 | 180 VA 180 VA | | | 14 | 1 | 15 A | | | WASHROOM RECEP |
| WASHROOM RECEP | | | 15 A | 1 | 15 | | 200 VA 800 VA | | 16 | 1 | 15 A | | | CORRIDOR RECEP |
| STORAGE RECEP | | | 15 A | 1 | 17 | | | 800 VA 200 VA | 18 | 1 | 15 A | | | CLASSROOM FLOOR RECEP |
| PRINTER | | | 15 A | 1 | 19 | 200 VA 200 VA | | | 20 | 1 | 15 A | | | CLASSROOM FLOOR RECEP |
| PRINTER | | | 15 A | 1 | 21 | | 200 VA 200 VA | | 22 | 1 | 15 A | | | CLASSROOM FLOOR RECEP |
| OPEN OFFICE RECEP | | | 15 A | 1 | 23 | | | 400 VA 800 VA | 24 | 1 | 15 A | | | CLASSROOM TV RECEP |
| OPEN OFFICE DESK RECEP | | | 15 A | 1 | 25 | 200 VA 900 VA | | | 26 | 1 | 20 A | | | BREAKOUT RECEP |
| CLASSROOM RECEP | | | 15 A | 1 | 27 | | 360 VA 800 VA | | 28 | 1 | 15 A | | | CLASSROOM TV RECEP |
| OPEN OFFICE RECEP | | | 15 A | 1 | 29 | | | 200 VA 200 VA | 30 | 1 | 15 A | | | OPEN OFFICE FURN. |
| CLASSROOM FLOOR RECEP | | | 15 A | 1 | 31 | 200 VA 200 VA | | | 32 | 1 | 15 A | | | OPEN OFFICE FURN. |
| CLASSROOM FLOOR RECEP | | | 15 A | 1 | 33 | | 200 VA 200 VA | | 34 | 1 | 15 A | | | OPEN OFFICE FURN. |
| CLASSROOM FLOOR RECEP | | | 15 A | 1 | 35 | | | 200 VA 200 VA | 36 | 1 | 15 A | | | OPEN OFFICE FURN. |
| PDO UNI. W/R | | | 15 A | 1 | 37 | 300 VA 1200... | | | 38 | 1 | 15 A | | | DISHWASHER |
| SPARE | | | 20 A | 1 | 39 | | 0 VA 0 VA | | 40 | 1 | 20 A | | | SPARE |
| EMERG OP. CENT. RECEP | | | 15 A | 1 | 41 | | | 200 VA 200 VA | 42 | 1 | 15 A | | | EMERG OP. CENT. FURN. |
| EMERG OP. CENT. FURN. | | | 15 A | 1 | 43 | 200 VA 200 VA | | | 44 | 1 | 15 A | | | EMERG OP. CENT. FURN. |
| EMERG OP. CENT. TV RECEP | | | 15 A | 1 | 45 | | 400 VA 400 VA | | 46 | 1 | 15 A | | | EMERG OP. CENT. TV RECEP |
| EMERG OP. CENT. FURN. | | | 15 A | 1 | 47 | | | 300 VA 200 VA | 48 | 1 | 15 A | | | EMERG OP. CENT. FURN. |
| EMERG OP. CENT. FURN. | | | 15 A | 1 | 49 | 200 VA 200 VA | | | 50 | 1 | 15 A | | | EMERG OP. CENT. FURN. |
| EMERG OP. CENT. TV RECEP | | | 15 A | 1 | 51 | | 400 VA 600 VA | | 52 | 1 | 15 A | | | EMERG OP. CENT. TV RECEP |
| BREAKOUT FURN. | | | 15 A | 1 | 53 | | | 100 VA 800 VA | 54 | 1 | 15 A | | | BREAKOUT RECEP |
| OFFICE RECEP | | | 15 A | 1 | 55 | 800 VA 400 VA | | | 56 | 1 | 15 A | | | OPEN OFFICE RECEP |
| OPEN OFFICE FURN. | | | 15 A | 1 | 57 | | 200 VA 200 VA | | 58 | 1 | 15 A | | | OPEN OFFICE FURN. |
| OPEN OFFICE FURN. | | | 15 A | 1 | 59 | | | 200 VA 200 VA | 60 | 1 | 15 A | | | OPEN OFFICE FURN. |
| OPEN OFFICE FURN. | | | 15 A | 1 | 61 | 200 VA 200 VA | | | 62 | 1 | 15 A | | | OPEN OFFICE FURN. |
| OPEN OFFICE FURN. | | | 15 A | 1 | 63 | | 200 VA 200 VA | | 64 | 1 | 15 A | | | OPEN OFFICE FURN. |
| OPEN OFFICE FURN. | | | 15 A | 1 | 65 | | | 200 VA 300 VA | 66 | 1 | 20 A | | | PDO |
| OPEN OFFICE FURN. | | | 15 A | 1 | 67 | 200 VA 0 VA | | | 68 | 1 | 15 A | | | SPARE |
| OPEN OFFICE FURN. | | | 15 A | 1 | 69 | | 200 VA 0 VA | | 70 | 1 | 15 A | | | SPARE |
| OPEN OFFICE FURN. | | | 15 A | 1 | 71 | | | 200 VA 0 VA | 72 | 1 | 15 A | | | SPARE |
| FACP | | ON | 15 A | 1 | 73 | 1200... 200 VA | | | 74 | 1 | 15 A | | | RECEIPT |
| | | | | | 75 | | | | 76 | | | | | |

Panel ID: PP2MB

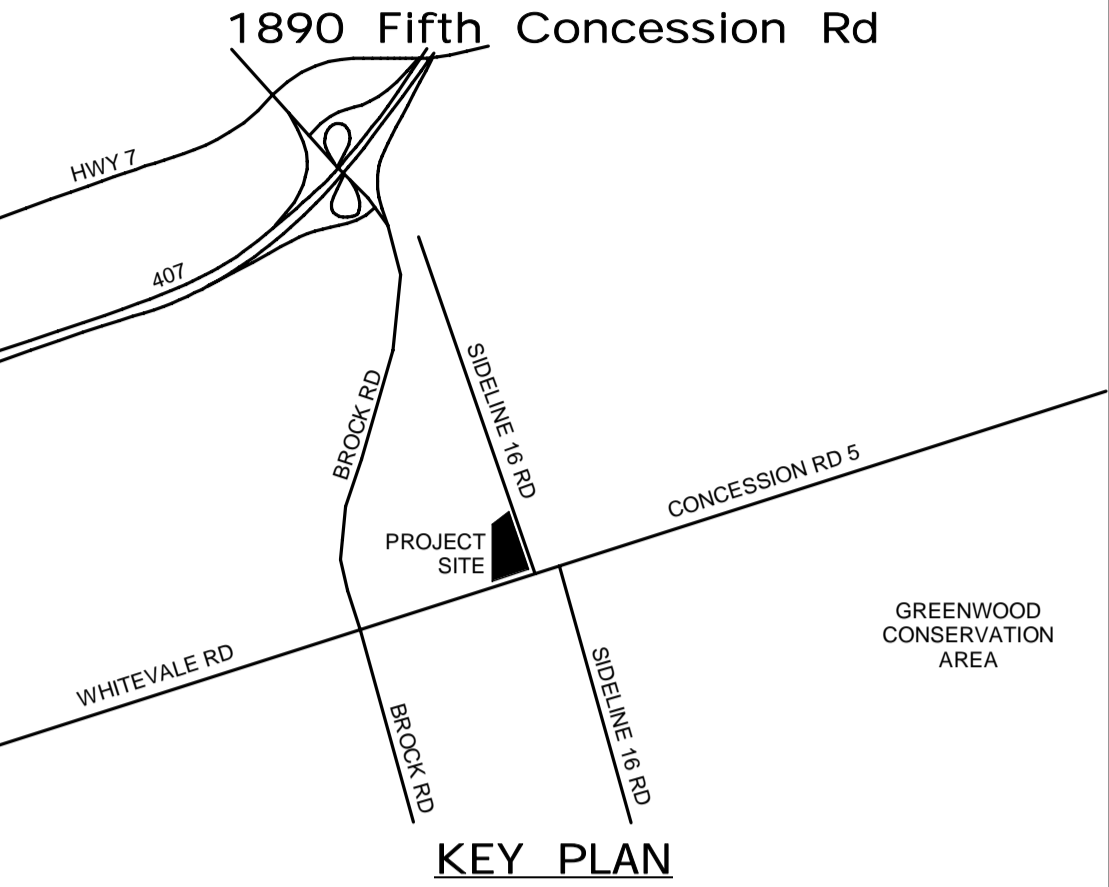
Location: CLOSET 107A
Supply From: TX-2MB
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 400 A
MCB Rating: N/A

| Description | Wire | BRK .LC K. | Breake r | Poles | CC T | A | | B | | C | | CC T | Poles | Breake r | BRK .LC K. | Wire | Description | |
|-------------|--------------|------------------|-------------|-------|---------|----------|---------|----------|---------|----------|---------|-------------------------|-------|-------------|------------------|--------------|-------------|----------|
| FC-10 | | | 15 A | 1 | 1 | 670 VA | 220 VA | | | | | 2 | 1 | 15 A | | | FF-4 | |
| EF-7 | | | 15 A | 1 | 3 | | | 55 VA | 220 VA | | | 4 | 1 | 15 A | | | FF-3 | |
| EF-6 | | | 15 A | 1 | 5 | | | | | 55 VA | 220 VA | 6 | 1 | 15 A | | | FF-5 | |
| FC-12 | | | 15 A | 1 | 7 | 980 VA | 670 VA | | | | | 8 | 1 | 15 A | | | FC-11 | |
| VAV | | X | 15 A | 1 | 9 | | | 200 VA | 200 VA | | | 10 | 1 | 15 A | X | | VAV | |
| FC-7 | | | 15 A | 1 | 11 | | | | | 980 VA | 200 VA | 12 | 1 | 15 A | X | | VAV | |
| EF-3 | | | 15 A | 1 | 13 | 0 VA | 200 VA | | | | | 14 | 1 | 15 A | | | HVAC | |
| VAV | | X | 15 A | 1 | 15 | | | 200 VA | 200 VA | | | 16 | 1 | 15 A | | | HVAC | |
| FC-9 | | | 15 A | 1 | 17 | | | | | 330 VA | 980 VA | 18 | 1 | 15 A | | | FC-8 | |
| FC-1 | | | 15 A | 1 | 19 | 300 VA | 980 VA | | | | | 20 | 1 | 15 A | | | FC-4 | |
| FC-13 | | | 15 A | 1 | 21 | | | 700 VA | 870 VA | | | 22 | 1 | 15 A | | | FC-2 & FC-3 | |
| FF-1 | | | 15 A | 1 | 23 | | | | | 220 VA | 100 VA | 24 | 1 | 15 A | | | TSP | |
| KH-1 | | | 15 A | 1 | 25 | 300 VA | 300 VA | | | | | 26 | 1 | 15 A | | | KH-2 | |
| FC-19 | | | 15 A | 1 | 27 | | | 300 VA | 1200... | | | 28 | 1 | 15 A | | | FS/D | |
| SPARE | | | 20 A | 1 | 29 | | | | | 0 VA | 220 VA | 30 | 1 | 15 A | | | FF-6 | |
| SPARE | | | 20 A | 1 | 31 | 0 VA | 1100... | | | | | 32 | 1 | 15 A | | | FC-17 | |
| SPARE | | | 20 A | 1 | 33 | | | 0 VA | 200 VA | | | 34 | 1 | 15 A | X | | VAV | |
| SPARE | | | 15 A | 1 | 35 | | | | | 0 VA | 200 VA | 36 | 1 | 15 A | X | | VAV | |
| SPARE | | | 15 A | 1 | 37 | 0 VA | 980 VA | | | | | 38 | 1 | 15 A | | | FC-16 | |
| SPARE | | | 15 A | 1 | 39 | | | 0 VA | 980 VA | | | 40 | 1 | 15 A | | | FC-15 | |
| VAV | | X | 15 A | 1 | 41 | | | | | 200 VA | 200 VA | 42 | 1 | 15 A | X | | VAV | |
| FC-18 | | | 15 A | 1 | 43 | 980 VA | 980 VA | | | | | 44 | 1 | 15 A | | | FC-14 | |
| SM-1 | 3#1 IN 41mmC | | 110 A | 3 | 45 | | | 1100... | 9000... | | | 46 | 3 | 100 A | | 3#2 IN 41mmC | SM-2 | |
| -- | -- | | -- | -- | 47 | | | | | 1100... | 9000... | 48 | -- | -- | -- | | -- | |
| -- | -- | | -- | -- | 49 | 1100... | 9000... | | | | | 50 | -- | -- | -- | | -- | |
| FC-20 | | | 15 A | 1 | 51 | | | 960 VA | | | | 52 | | | | | | |
| | | | | | 53 | | | | | | | 54 | | | | | | |
| | | | | | 55 | | | | | | | 56 | | | | | | |
| | | | | | 57 | | | | | | | 58 | | | | | | |
| | | | | | 59 | | | | | | | 60 | | | | | | |
| | | | | | 61 | | | | | | | 62 | | | | | | |
| | | | | | 63 | | | | | | | 64 | | | | | | |
| | | | | | 65 | | | | | | | 66 | | | | | | |
| | | | | | 67 | | | | | | | 68 | | | | | | |
| | | | | | 69 | | | | | | | 70 | | | | | | |
| | | | | | 71 | | | | | | | 72 | | | | | | |
| Total Load: | | | | | | 28660 VA | | 26285 VA | | 23905 VA | | Total Connected Load: | | | | | | 78850 VA |
| Total Amps: | | | | | | 242 A | | 222 A | | 199 A | | Estimated Demand Load: | | | | | | 75080 VA |
| | | | | | | | | | | | | Total Connected Current | | | | | | 219 A |

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



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| CONSULTANT REVISIONS | | | | |
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| NO. | DATE. | NAME | REVISIONS | |

PRIME CONSULTANT

AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT

| | |
|-----------------|---------------------------------|
| DESIGN BY: GR | SCALE: |
| DRAWN BY: HD | DATE: 06/09/21 |
| CHECKED BY: WA | CONSULTANT PROJECT NO. 60611569 |
| APPROVED BY: WA | CLIENT FILE No.: 811/20 |

| | | | | |
|--------------------|------|------------|---------------------------|--|
| CONTRACT REVISIONS | | | | |
| | | | | |
| | | | | |
| | 3 | 03/14/2022 | ISSUED FOR CONSTRUCTION | |
| | 2 | 10/18/21 | RESPONSE TO CITY COMMENTS | |
| | 1 | 09/22/21 | ISSUED FOR TENDER | |
| NO | DATE | NAME | REVISIONS | |

THE REGIONAL MUNICIPALITY OF DURHAM

WORKS DEPARTMENT

DESIGN, CONSTRUCTION & ASSET MANAGEMENT

| | | |
|--|--------------------|-------------------------------------|
| NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING ELECTRICAL PHASE 1 & 2 SCHEDULES | | |
| PROPERTY NO. | FACILITIES CODE | FACILITIES PROJECT NO. PO61- 18- 01 |
| CONTRACT NO. T- 1160- 2021 | DRAWING NO. E- 704 | SHEET NO. |

BIM 300/BJP-AMER (CAN) 60611569-Station RDPDS-A.rvt