

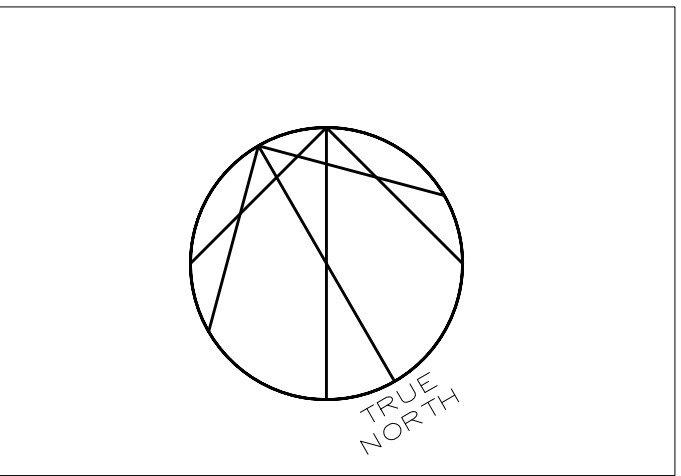
DATE	ISSUED FOR	REV
2025-10-16	Review	A
2025-10-28	Review	B
2025-11-05	Permit and tender	0

Consultants

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NORR Architects & Engineers Limited

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Project Manager	Drawn	SM
Project Leader	Checked	ZD



Project
MGH - Outpatient Ophthalmology Clinic

20 Wynford Dr Suite 310, North York, ON M3C 1J4

Drawing Title

TYPICAL DETAILS

Scale

Project No. 242519

Drawing No. **M-011**

DATE	ISSUED FOR	REV
2025-10-16	Review	A
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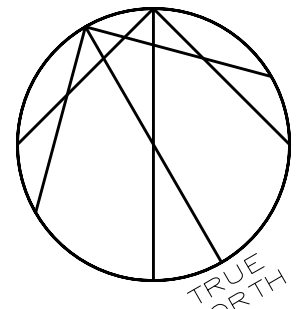
SPECIFICATIONS			
<p>GENERAL</p> <p>1. GENERAL SCOPE OF WORK</p> <p>1.1. FURNISH ALL LABOUR, MATERIALS, EQUIPMENT, TOOLS AND SUPPORTS, AND SUPERVISION TO PROVIDE A COMPLETE INSTALLATION, AS INDICATED ON THE DRAWINGS AND IN SPECIFICATIONS.</p> <p>1.2. THE CONTRACTOR SHALL PERFORM THE WORK STIPULATED IN THE CONTRACT AND ANY OR ALL CONTRACT CHANGES AND CHANGE DIRECTIVES, AND SHALL FURNISH, UNLESS OTHERWISE PROVIDED IN THE CONTRACT, EVERYTHING NECESSARY FOR THE PROPER PERFORMANCE AND COMPLETION OF THE WORK.</p> <p>1.3. ALL WORK SHALL BE FULLY TESTED, COMMISSIONED AND IN GOOD WORKING ORDER AT TIME OF HAND-OVER TO OWNER.</p> <p>1.4. MAKE GOOD ANY DAMAGES TO EXISTING EQUIPMENT AND/OR SYSTEM(S). COORDINATE WORK AND WORKING HOURS WITH THE OWNER AND OTHER TRADES TO MINIMIZE DISRUPTION.</p> <p>2. PERMITS AND FEES</p> <p>2.1. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATIONS AND APPROVALS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.</p> <p>2.2. CONTRACTOR SHALL OBTAIN ALL PERMITS PRIOR TO COMMENCING WORK.</p> <p>3. CODES AND STANDARDS</p> <p>3.1. ALL WORK SHALL CONFORM TO THE MOST RECENT ISSUES OF: THE ONTARIO BUILDING CODE, THE ONTARIO ELECTRICAL SAFETY CODE, REGULATIONS ISSUED BY THE BUILDING AUTHORITY HAVING JURISDICTION ASHRAE, SMACNA, NFPA, TSSA, CSA</p> <p>3.2. PROVIDE HVAC WORK IN ACCORDANCE WITH CAN/CSA-2317.2-10, SPECIAL REQUIREMENTS FOR HVAC SYSTEMS IN HEALTH CARE FACILITIES.</p> <p>3.3. PROVIDE PLUMBING WORK IN ACCORDANCE WITH CAN/CSA-2317.1-09, SPECIAL REQUIREMENTS FOR PLUMBING INSTALLATIONS IN HEALTH CARE FACILITIES.</p> <p>3.4. PROVIDE MEDICAL GAS PIPING SYSTEMS IN ACCORDANCE WITH CAN/CSA 7396.1-06, NON-FLAMMABLE MEDICAL GAS PIPING SYSTEMS.</p> <p>3.5. PROVIDE ALL WORK IN ACCORDANCE WITH CAN/CSA-2317.13-03, INFECTIOL CONTROL DURING CONSTRUCTION OR RENOVATION OF HEALTH CARE FACILITIES.</p> <p>3.6. MEDICAL GAS PIPING AND REFRIGERATION PIPING SUBJECT TO TSSA APPROVAL. ONLY BRAZERS WITH VALID LICENCES SHALL EXECUTE THE WORK.</p> <p>4. WARRANTY</p> <p>4.1. WARRANT ALL LABOUR AND MATERIALS INCLUDED IN THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. ASSUME FULL RESPONSIBILITY FOR LAYOUT OF ALL WORK AND FOR ANY DAMAGE CAUSED TO OWNER OR OTHERS BY IMPROPER CARRYING OUT OF THE WORK.</p> <p>5. DRAWINGS</p> <p>5.1. DRAWINGS SHOW GENERAL INTENT OF THE WORK AND PROPOSED ROUTING ONLY.</p> <p>5.2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS BY FIELD MEASURE BEFORE PROCEEDING WITH THE WORK.</p> <p>5.3. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE INTERFERENCES AND INFORMING THE ENGINEER.</p> <p>5.4. THE DETAILS OF CONSTRUCTION WILL BE DETERMINED IN THE PROCESS OF CONSTRUCTION. SUBJECT TO VENDOR INFORMATION AND SHOP DRAWING APPROVAL.</p> <p>6. SITE CONDITIONS</p> <p>6.1. EXAMINE SITE CONDITIONS TO ENSURE THAT WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN. IF SITE EXAMINATION REVEALS ANY DIFFICULTIES THAT WILL PREVENT THE WORK FROM BEING CARRIED OUT AS DESIGNED THESE MUST BE INDICATED IN THE TENDER PRICE, AND BROUGHT TO THE ATTENTION OF THE ENGINEER.</p> <p>6.2. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY ADDITIONAL DIFFICULTIES, INTERFERENCES AND SITE CONSTRAINTS THAT MAY BE IDENTIFIED DURING THE CONSTRUCTION PERIOD.</p> <p>6.3. COORDINATE SITE ACCESS AND DELIVERIES WITH OWNER AND/OR GENERAL CONTRACTOR.</p> <p>6.4. COORDINATE THE DETAILS OF INSTALLATION WITH THE SITE CONDITIONS AND OTHER TRADES.</p> <p>7. EXTRA WORK</p> <p>7.1. WHERE EXTRA WORK OF ANY KIND IS REQUIRED, OBTAIN WRITTEN INSTRUCTIONS BEFORE PROCEEDING.</p> <p>7.2. QUOTATION WITH BREAKDOWN OF MATERIAL, LABOUR, OVERHEAD, PROFIT, ETC. SHALL BE SUBMITTED FOR EACH CHANGE. PAYMENTS WILL BE MADE ONLY FOR AUTHORIZED CHANGES.</p> <p>7.3. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO PROPERLY EXAMINE THE EXISTING CONDITIONS.</p> <p>8. SHOP DRAWINGS</p> <p>8.1. SUBMIT 4 COPIES OF SHOP DRAWINGS, UNLESS OTHERWISE INDICATED, FOR ENGINEER'S REVIEW.</p> <p>8.2. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ENGINEER'S REVIEW COVERING ALL RELEVANT DETAILS, DIMENSIONS AND PERFORMANCE.</p> <p>8.3. SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE CONTRACTOR AND THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO CONSULTANT/ENGINEER FOR REVIEW.</p> <p>9. AS BUILT DRAWINGS</p> <p>9.1. MAINTAIN A RECORD OF ALL REVISIONS. MAINTAIN A RECORD SET OF DRAWINGS ON SITE SHOWING ALL DEVIATIONS IN THE WORK.</p> <p>9.2. UPON COMPLETION OF WORK, SUBMIT TO THE ENGINEER RECORD DRAWINGS OF THE ACTUAL INSTALLATION AS ELECTRONIC FILES IN AUTOCAD COMPATIBLE FORMAT AND PDF.</p> <p>9.3. ENGINEER'S STAMP AND COMPANY LOGO SHALL BE REMOVED FROM THE DRAWINGS. THE DRAWINGS SHALL BE MARKED "AS-BUILT" ALONG WITH THE CONTRACTOR'S NAME.</p> <p>10. CLOSEOUT DOCUMENTS</p> <p>10.1. AFTER COMPLETION OF THE PROJECT, PROVIDE THREE (3) SETS OF THE FOLLOWING DOCUMENTS TO THE BUILDING OWNER, THE PROJECT MANAGER, AND THE ENGINEER:</p> <ul style="list-style-type: none">-FULL SIZE AS-BUILT DRAWINGS-EQUIPMENT OEM MANUALS-APPROVED SHOP DRAWINGS-TEST AND BALANCING REPORTS-CONTROLS VERIFICATION REPORTS-WPA13 CERTIFICATE-WRITTEN WARRANTY <p>10.2. SUBMIT 3 COPIES OF THE CLOSEOUT DOCUMENTS IN PDF FORMAT.</p> <p>SCOPE OF WORK & PROJECT DESCRIPTION</p> <p>1. ALL WORK AS INDICATED IN DRAWINGS AND SPECIFICATIONS.</p> <p>2. DUCTWORK DEMOLITION.</p> <p>3. PLUMBING FIXTURES AND PIPING DEMOLITION.</p> <p>4. NEW DUCTWORK, COILS, GRILLES AND DIFFUSERS.</p> <p>6. RELOCATE HUMIDIFIER.</p> <p>7. NEW PLUMBING FIXTURES AND PIPING.</p> <p>8. DUCTWORK AND PIPING INSULATION.</p>	<p>EXECUTION</p> <p>1. MATERIALS AND WORKMANSHIP</p> <p>1.1. USE ONLY NEW CSA AND UL/C CERTIFIED EQUIPMENT AND MATERIALS UNLESS OTHERWISE INDICATED.</p> <p>1.2. ONLY FIRST CLASS WORKMANSHIP WILL BE ACCEPTED WITH RESPECT TO STANDARD PRACTICES, SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS OF INSTALLATION WORK.</p> <p>2. MATERIALS AND WORK WHICH FAILS TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED BY THE ENGINEER WHENEVER FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE AND REGARDLESS OF PREVIOUS INSPECTIONS. WHEN REJECTED, DEFECTIVE MATERIALS OR WORK SHALL BE PROMPTLY REMOVED, REPLACED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO EXPENSE TO THE OWNER.</p> <p>3. CLEANING</p> <p>3.1. CLEAN PREMISES DAILY AT THE END OF EACH WORK DAY.</p> <p>3.2. DO NOT ACCUMULATE EQUIPMENT, TOOLS, DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY.</p> <p>3.3. COORDINATE REMOVE ALL DEBRIS AND RUBBISH FROM SPACE WITH LANDLORD TO MINIMIZE DISRUPTION TO FACILITY.</p> <p>4. SCHEDULING</p> <p>4.1. COORDINATE WITH FACILITIES AND SECURITY ALL WORK. OBTAIN ACTIVITY PERMITS FOR ALL WORK.</p> <p>4.2. COORDINATE WITH FACILITIES ANY WORK THAT REQUIRES CONNECTION TO EXISTING SERVICES. EXECUTE SUCH WORK OUT OF THE REGULAR BUSINESS HOURS AS NEEDED. NO WORK SHALL CAUSE INTERRUPTION OF SERVICE.</p> <p>5. EXISTING EQUIPMENT AND SYSTEMS</p> <p>5.1. DISCONNECT, RECONNECT OR RELOCATE EXISTING EQUIPMENT OR SERVICES WHERE SHOWN OR AS REQUIRED TO PERMIT NEW WORK TO BE INSTALLED WITHOUT INTERFERENCES. ENSURE THAT REQUIRED SERVICES ARE MAINTAINED.</p> <p>5.2. COORDINATE WITH THE OWNER BEFORE INTERRUPTING ANY ESSENTIAL SERVICES.</p> <p>5.3. ALL NEW AND EXISTING EQUIPMENT SHALL BE ACCESSIBLE FOR MAINTENANCE.</p> <p>6. COORDINATION</p> <p>6.1. CO-ORDINATE ALL SITE DIMENSIONS WITH THE EQUIPMENT SHOP DRAWINGS.</p> <p>6.2. ADJUST ROUTING OF NEW SERVICES TO ACCOMMODATE EXISTING SERVICES PROVIDED THAT THE INTENT OF THE DRAWINGS IS MET AND THE ORIGINAL STANDARDS ARE MAINTAINED.</p> <p>6.3. PROVIDE DRAWINGS OF PROPOSED REVISIONS TO ENGINEER FOR APPROVAL BEFORE BEGINNING ANY WORK. INCORPORATE ALL CHANGES IN AS BUILT DRAWINGS.</p> <p>6.4. COORDINATE ALL ROUTING CHANGES WITH OTHER TRADES THAT MAY BE AFFECTED.</p> <p>6.5. ENGINEER TO BE ADVISED PRIOR TO CHANGES WHERE CHANGES COULD BE SIGNIFICANT.</p> <p>7. DEMOLITION</p> <p>7.1. REMOVE FROM SITE AND DISPOSE OF ALL EQUIPMENT TO BE DEMOLISHED.</p> <p>7.2. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS AND SERVICES.</p> <p>7.3. CAP AND SEAL ALL REMAINING SERVICES. NO OPEN ENDS ALLOWED ON REMAINING PIPES AND DUCTS.</p> <p>7.4. PATCH, FIRESTOP AND SEAL ALL AFFECTED WALLS, FLOORS AND ROOFS.</p> <p>8. PENETRATIONS</p> <p>8.1. PIPING, DUCTS AND VENTS THROUGH WALL, FLOOR AND ROOF SHALL BE BY THE MECHANICAL CONTRACTOR, INCLUDING ALL PATCHING.</p> <p>8.2. SCAN AND OBTAIN WRITTEN APPROVAL FROM BUILDING OWNER PRIOR TO PENETRATING ANY STRUCTURAL MEMBERS OR FLOOR SLABS. ALL DAMAGE TO THE STRUCTURE OF THE BUILDING SHALL BE REPAIRED AT NO EXTRA COST TO THE OWNER.</p> <p>8.3. ALL SERVICES THAT PENETRATE WALL OR SLAB SHALL BE IN METAL SLEEVE. THE SLEEVE SHALL BE PACKED WITH INSULATION AND SEALED ON BOTH ENDS.</p> <p>9. OPEN FLAMES AND WELDING</p> <p>9.1. NO OPEN FLAMES OR WELDING IS PERMITTED WITHIN THE BUILDING WITHOUT WRITTEN PERMISSION BY THE OWNER AND THE ENGINEER.</p> <p>9.2. THE HOT WORK PERMIT MUST BE VISIBLE AT ALL TIMES.</p> <p>9.3. WELDING SHALL BE UNDERTAKEN BY A COMPANY CERTIFIED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF DIVISION 1 OR DIVISION 2.1 OR W4.1.</p> <p>9.4. WELDING FUMES AND GASES SHALL BE PREVENTED FROM SPREADING INTO THE BUILDING. PROVIDE ALL NECESSARY SMOKE EXTRACTION AND TEMPORARY VENTILATION.</p> <p>9.5. ADEQUATE NUMBER OF FIRE EXTINGUISHERS MUST BE PROVIDED DURING THE OPEN FLAME PROCESS.</p> <p>10. CUTTING, PATCHING AND PAINTING REQUIREMENTS</p> <p>10.1. PROVIDE CUTTINGS FROM ALL OPENINGS NECESSARY TO EXECUTE THE SCOPE OF WORK.</p> <p>10.2. PATCH AND PAINT TO MAKE GOOD. RESTORE THE FINISHES TO MATCH THE EXISTING.</p> <p>10.3. USE QUALIFIED TRADES ONLY.</p> <p>11. FIRE RATED ASSEMBLIES</p> <p>11.1. PIPING PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS, OR SMOKE TIGHT WALLS, SHALL BE IN METAL SLEEVE AND FIRE STOPPED. UNLESS OTHERWISE SPECIFIED ON THE ARCHITECTURAL DRAWINGS, GLASS FIBRE FIRE RETARDANT INSULATION SHALL BE PACKED BETWEEN THE PIPE AND THE SLEEVE.</p> <p>11.2. FIRESTOP CAULKING SHALL BE APPLIED AROUND THE SLEEVE AND BETWEEN THE PIPE AND THE SLEEVE. FIRESTOP CAULKING SHALL BE "JOHNS MANVILLE" FIRESTOP CAULK OR EQUIVALENT.</p> <p>12. SMOKE RATED ASSEMBLIES</p> <p>12.1. ALL SERVICES THAT PENETRATE FULL HEIGHT, SLAB-TO-SLAB WALLS, SHALL BE SEALED SMOKE TIGHT.</p> <p>13. DIELECTRIC ISOLATION</p> <p>13.1. PROVIDE ISOLATION WHEN USING DISSIMILAR PIPING MATERIALS TO PREVENT GALVANIC ACTION.</p> <p>14. MECHANICAL WIRING - ALL LOW VOLTAGE CONTROL WIRING (<50V) SHALL BE BY THIS DIVISION, TO ELECTRICAL DIVISION STANDARDS.</p> <p>14.1. THE WORK SHALL INCLUDE LOW VOLTAGE CONTROL WIRING FOR PLUMBING FIXTURES, INCLUDING THE TRANSFORMERS</p> <p>15. PRESSURE TESTING</p> <p>15.1. ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED TO 1.5 TIMES SYSTEM OPERATING PRESSURE FOR A DURATION OF 4 HRS UNLESS OTHERWISE INDICATED.</p> <p>16. ISOLATION</p> <p>16.1. ALL PIPED SERVICES SHALL HAVE ISOLATION VALVES FOR EVERY BRANCH. LOCATE VALVES IMMEDIATELY AFTER TAKE-OFF OR WITHIN 3FT. VALVES SHALL BE EASILY ACCESSIBLE.</p> <p>16.2. ALL GRILLES AND DIFFUSERS SHALL HAVE BALANCING DAMPERS LOCATED AT THE POINT OF TAKE-OFF. DAMPERS SHALL BE EASILY ACCESSIBLE.</p> <p>16.3. NEW SERVICES SHALL NOT OBSTRUCT ACCESS TO EXISTING VALVES AND DAMPERS.</p> <p>17. LABELING</p> <p>17.1. LABEL ALL EQUIPMENT AND CONTROLS COMPONENTS. MATCH EXISTING LABELING SYSTEM.</p> <p>17.2. IDENTIFY ALL SERVICES; PROVIDE LABEL FOR THE SERVICE AND ARROWS FOR THE FLOW DIRECTION AT EVERY 3 METERS.</p> <p>17.3. TAG ALL VALVES. PROVIDE HARD SURFACE TAGGING CHART, DISPLAY CHART IN OWNER APPROVED LOCATION.</p> <p>18. ACCESS PANELS</p> <p>18.1. ACCESS PANELS SHALL BE PROVIDED IN HARD CEILINGS OR WALLS WHERE FIRE DAMPERS, EQUIPMENT, VALVES OR BALANCING DAMPERS ARE LOCATED.</p> <p>18.2. ACCESS PANELS SHALL HAVE THE SAME FIRE RATING AS THE PARTITION BEING PENETRATED. OBTAIN APPROVAL FROM THE ARCHITECT/DESIGN CONSULTANT.</p>	<p>HVAC</p> <p>1. DUCTWORK</p> <p>1.1. FABRICATE AND INSTALL ALL DUCTWORK AS PER SMACNA-"HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, 1995".</p> <p>1.2. ALL DUCTWORK TO BE CONSTRUCTED TO COMPLY WITH THE REQUIREMENTS FOR 6" PRESSURE CLASS, SEAL CLASS "C".</p> <p>1.3. FABRICATE ALL DUCTWORK FROM GALVANIZED STEEL UNLESS NOTED OTHERWISE.</p> <p>2. RECTANGULAR DUCTWORK: RECTANGULAR DUCTWORK SHALL BE WITH TDC JOINT, INTEGRAL FORMED FLANGE, SLIP-ON FLANGES ARE NOT ACCEPTABLE. ALL FLAT SURFACES SHALL BE REINFORCED.</p> <p>2.1. ELBOWS SHALL BE 1.5DIA. RADIUS UNLESS OTHERWISE NOTED.</p> <p>2.2. ALL BRANCHES' TAKE-OFFS SHALL BE SMOOTH WYE TYPE OR 45° BOUTH.</p> <p>3. ROUND DUCTWORK: ALL ROUND DUCTWORK SHALL BE SPIRO, ALL FITTINGS SHALL BE FACTORY MADE; PIPE AND FITTINGS SHALL BE FROM ONE MANUFACTURER.</p> <p>3.1. ELBOWS SHALL BE 1.0DIA. RADIUS UNLESS OTHERWISE NOTED.</p> <p>3.2. ELBOWS UP TO 12"DIA. SHALL BE STAMPED, GORED ELBOWS SHALL BE 5-PIECE.</p> <p>3.3. BRANCHES OVER 6"DIA. SHALL CONNECT WITH FABRICATED TEES. ROUND DUCTS SHALL CONNECT TO RECTANGULAR WITH BOOT TEES.</p> <p>4. SUPPORTS: SUPPORT DUCTWORK AT EQUAL INTERVALS AS PER SMACNA STANDARDS</p> <p>4.1. RECTANGULAR DUCTWORK: 1½" UNISTRUT TRAPEZE, TREADED ROD HANGERS C/W LEVELING AND LOCKING NUT.</p> <p>4.2. ROUND DUCTWORK: ONE OR TWO-PIECE ROUND BAND CLAMP, ONE OR TWO THREADED ROD HANGERS C/W LEVELING AND LOCKING NUT.</p> <p>5. DUCT INSULATION: INSULATE ALL SUPPLY DUCTWORK WITH 38MM FIBREGLASS BLANKET INSULATION WITH ALUMINUM FOIL BACKING. TAPE ALL JOINTS WITH 50MM HEAVY DUTY ALUMINUM FOIL TO ENSURE CONTINUOUS VAPOUR BARRIER.</p> <p>6. CONTROLS</p> <p>6.1. ROOF TOP UNIT - NEW ELECTRONIC THERMOSTAT, BY NAILOR.</p> <p>6.2. ELECTRIC REHEAT COILS - ELECTRONIC THERMOSTAT, BY MANUFACTURER.</p> <p>7. TESTING AND BALANCING</p> <p>7.1. PROVIDE HYDRONIC AND AIR BALANCING FOR THE COMPLETED HVAC SYSTEM WITH THE CONTROLS FULLY FUNCTIONAL.</p> <p>7.2. THE BALANCING CONTRACTOR SHALL BE NEBB OR AABC CERTIFIED.</p> <p>7.3. SUBMIT BALANCING REPORTS INDICATING THE PARAMETERS OF THE SYSTEMS FOR "DESIGN" AND "AS-TESTED".</p> <p>7.4. THE REPORT SHALL INCLUDE SYSTEMS DRAWINGS INDICATING THE POINTS OF MEASUREMENT.</p> <p>7.5. NOTIFY ENGINEER OF ANY DISCREPANCIES GREATER THAN ±10% OF THE DESIGN VALUES PRIOR OF SUBMISSION OF REPORT.</p>	<p>DOMESTIC WATER PIPING</p> <p>1. PIPE</p> <p>1.1. ABOVE GROUND: DOMESTIC COLD, HOT AND HOT WATER RE-CIRCULATION AS WELL AS NON-POTABLE WATER WITHIN BUILDING. COPPER TUBE, HARD DRAWN, TYPE L TO ASTM B88M.</p> <p>1.2. BURIED: COPPER TUBE, SOFT ANNEALED, SEAMLESS TYPE K TO ASTM B88.</p> <p>2. FITTINGS</p> <p>2.1. CAST COPPER, SOLDER TYPE TO ANSI B16.18.</p> <p>2.2. WROUGHT COPPER AND COPPER ALLOY, SOLDER TYPE TO ANSI/ASME B16.22.</p> <p>3. JOINTS</p> <p>3.1. NPS 2 AND SMALLER, ABOVE GROUND: -SOLDERED WITH LEAD-FREE SOLDER OR TIN-ANTIMONY 95/5 SOLDER TO ASTM B-32 -THREADED TO CONNECTIONS TO EQUIPMENT</p> <p>3.2. PIPE JOINTS FOR SIZES NPS 2 AND SMALLER, BELOW GROUND: -SILVER ALLOY BRAZING TO AWS CLASSIFICATION BCuP-5</p> <p>3.3. PIPE JOINTS FOR SIZES NPS 2 1/2 AND LARGER, ABOVE GROUND: -SILVER ALLOY BRAZING TO AWS CLASSIFICATION BCuP-5 -FLANGED CONNECTIONS TO EQUIPMENT</p> <p>4. VALVES</p> <p>4.1. GATE VALVES - NPS 2 AND UNDER, NOT PERMITTED.</p> <p>4.2. GATE VALVES NPS 2 AND OVER - FLANGED, CLASS 150, TO ASTM A216 GRADE WCB, CAST STEEL BODY WITH RAISED FACED FLANGE, FLEXIBLE TYPE 416 STAINLESS STEEL DISC AND HARD FACED SEAT RINGS, RISING STEM, OS & Y BOLTED BONNET.</p> <p>4.3. GLOBE VALVES NPS 2 AND UNDER - SOLDERED, CLASS 150, TO MSS SP-80, BRONZE BODY, RENEWABLE COMPOSITION PTFE DISC, UNION BONNET, LOCK SHIELD HANDLES AS INDICATED.</p> <p>4.4. GLOBE VALVES NPS 2 AND UNDER - SCREWED, CLASS 150, MSS SP-80, BRONZE BODY, RENEWABLE COMPOSITION PTFE DISC, UNION BONNET, LOCK SHIELD HANDLES AS INDICATED.</p> <p>4.5. BALL VALVES NPS 2 AND SMALLER - SOLDERED OR SCREWED, 600 WOG, TWO PIECE BRONZE BODY, WITH 316 STAINLESS STEEL SOLID BALL AND STEM TO ASME A276, PTFE SEAT RINGS, FULL PORT.</p> <p>4.6. SWING CHECK VALVES NPS 2 AND UNDER - SOLDERED OR SCREWED, CLASS 150, TO MSS SP-80, BRONZE BODY, BRONZE SWING DISC, REGRINDABLE SEAT, SCREW-IN CAP.</p> <p>4.7. SWING CHECKS NPS 2 AND OVER - FLANGED, CLASS 150 (125 PSI), TO ASTM A216 OR WCB, CAST STEEL BODY WITH RAISED FACED FLANGE, RENEWABLE STAINLESS STEEL SEAT RINGS, STAINLESS STEEL DISC, BOLTED CAP.</p> <p>4.8. DRAIN VALVES - SOLDERED OR SCREWED, 600 WOG, TWO PIECE BRONZE BODY BALL VALVE, WITH FULL PORT, 316 STAINLESS STEEL SOLID BALL AND STEM TO ASME A276, PTFE SEAT RINGS, HOSE END MALE THREAD AND CAP AND CHAIN.</p> <p>5. FLUSHING</p> <p>5.1. FLUSH BRANCH AND MAIN PIPING THROUGH AVAILABLE OUTLETS WITH SUFFICIENT FLOW TO PRODUCE VELOCITY OF 1.5 M/S (4.9 FPS), WITHIN A PIPE FOR 10 MINUTES, OR UNTIL FOREIGN MATERIALS HAVE BEEN REMOVED AND FLUSHED WATER IS CLEAR.</p> <p>5.2. REMOVE FAUCETS SCREENS BEFORE FLUSHING; REINSTALL AFTER COMPLETION OF DISINFECTION.</p> <p>DRAINAGE AND VENT PIPING</p> <p>1. ABOVE GROUND SANITARY AND STORM, DRAINAGE AND VENT</p> <p>1.1. PIPE:</p> <p>1.1.1. PIPE NPS 2 AND SMALLER: COPPER DWV TUBE, TO ASTM B306</p> <p>1.1.2. PIPE NPS 2-1/2 AND LARGER: PVC PIPE TO CAN/CSA-B181.2 AND WITH FLAME SPREAD RATING NOT MORE THAN 15 WHEN TESTED TO CAN/ULC-S102.2M. IPEX SYSTEM XFR DWV OR EQUAL.</p> <p>1.2. FITTINGS:</p> <p>1.2.1. PIPE NPS 2 AND SMALLER: CAST BRASS TO CSA B158.1 OR WROUGHT COPPER TO ANSI B16.29 OR CAST COPPER TO ANSI B16.23.</p> <p>1.2.2. JOINTS: SOLDERED WITH LEAD-FREE SOLDER TO ASTM B32, TYPE 50A USING PASTE TYPE FLUX TYPE TO ASTM B813.</p> <p>1.2.3. PIPE NPS 2-1/2 AND LARGER: PVC FITTINGS TO CAN/CSA-B181.1 WITH FLAME SPREAD RATING NOT MORE THAN 15 WHEN TESTED TO CAN/ULC-S102.2M. IPEX SYSTEM XFR DWV OR EQUAL.</p> <p>1.2.3. JOINTS: CSA APPROVED ONE-STEP SOLVENT CEMENT FOR SYSTEM XFR TYPE PVC PIPE.</p> <p>2. PROVIDE FACTORY MADE PIPING ADAPTERS FOR CONNECTING PVC PIPE TO EXISTING COPPER OR CAST IRON.</p>

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Survey:
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Seal(s)



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Project Manager Drawn SM

Project Leader Checked ZD

Client



Project
MGH - Outpatient
Ophthalmology Clinic

20 Wynford Dr Suite 310, North York, ON M3C 1J4

Drawing Title

SPECIFICATIONS

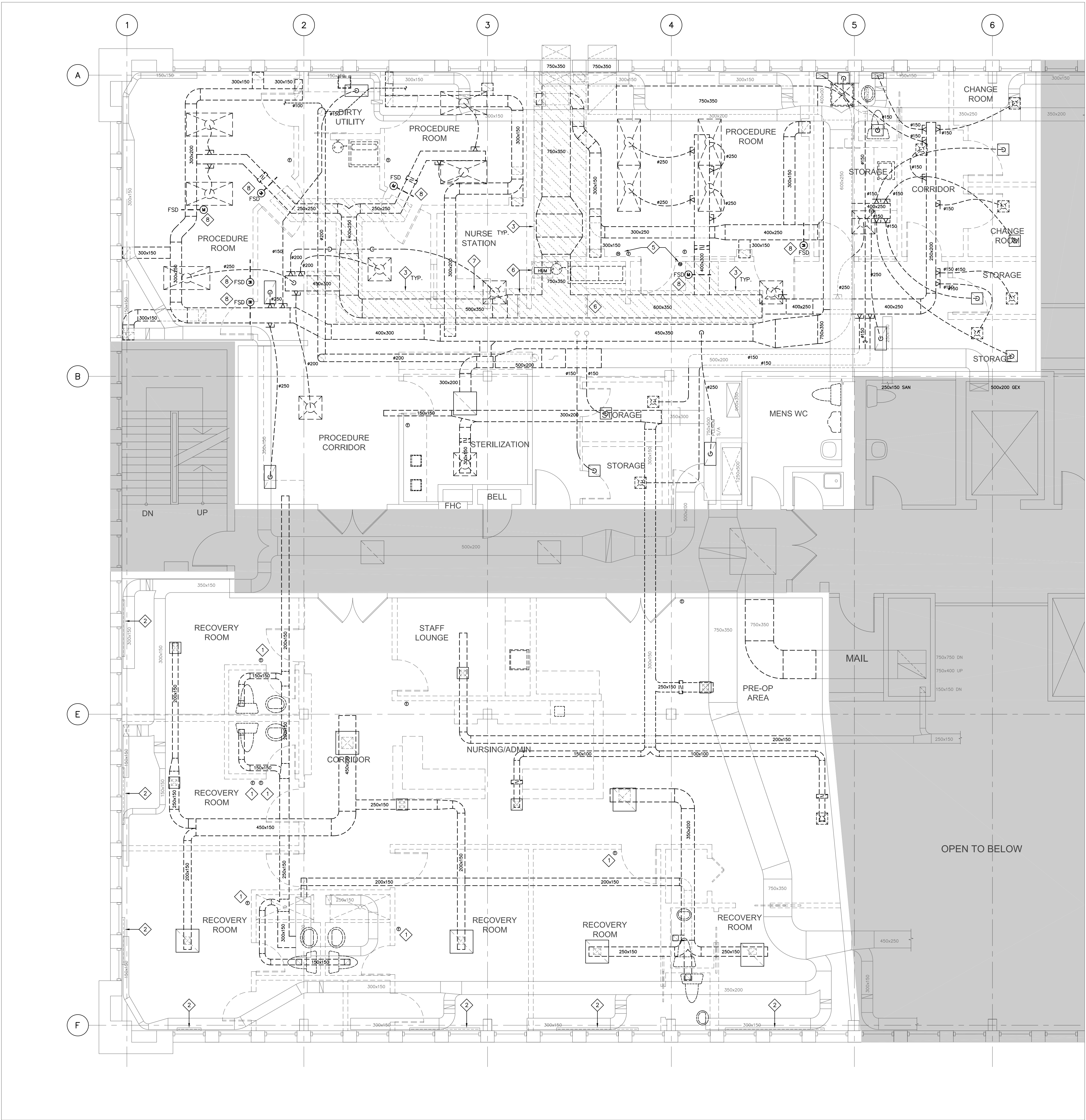
Scale

Project No.

242519

Drawing No.

M-020



GENERAL:

- 1 DEMOLISH DUCTWORK. REMOVE GRILLES AND DIFFUSERS AS SHOWN. CAP AND SEAL REMAINING DUCTWORK.
- 2 REMOVE ELECTRIC HEATING COILS WHERE DUCTWORK IS BEING DEMOLISHED. COORDINATE WITH ELECTRICAL REMOVAL OF POWER FEEDERS AND LINE VOLTAGE THERMOSTATS.
- 3 TOP LEVEL OF DUCTWORK, THAT SERVES THE THIRD FLOOR, TO REMAIN.
- 4 ROOF-TOP UNIT AND HUMIDIFIER TO BE REUSED. RETAIN NAYLOR MECHANICAL. THE BASE BUILDING MAINTENANCE SERVICE PROVIDER, TO DECOMMISSION AND MAKE EQUIPMENT SAFE AND TO SECURE FOR REUSE.

NOTES:

- 1 LINE VOLTAGE THERMOSTAT TO RELOCATE, SERVES ELECTRICAL COIL BELOW SLAB, THAT SERVES THIS SPACE. COORDINATE WITH ELECTRICAL.
- 2 SLOT DIFFUSER FED FROM BELOW - TO REMAIN.
- 3 SUPPLY DUCTWORK IS IN TWO-LAYER GYPSUM BOARD ENCLOSURE. DEMOLISH DUCTWORK AND ENCLOSURE. COORDINATE REMOVAL OF GYPSUM BOARD WITH THE GC.
- 4 SUPPLY DUCTWORK IN TWO-LAYER GYPSUM BOARD ENCLOSURE. COORDINATE REMOVAL OF GYPSUM BOARD WITH THE GC.
- 5 RTU THERMOSTAT, HUMIDIFIER HUMIDISTAT AND DIFFERENTIAL PRESSURE MONITOR - REMOVED BY NYLOR.
- 6 REMOVE HUMIDIFIER AND TWO STEAM DISPERSION GRIDS - BY NYLOR.
- 7 REMOVE HIGH-LIMIT HUMIDISTAT - BY NYLOR.
- 8 REMOVE FIRE-SMOKE DAMPER. POWER AND FIRE ALARM CONNECTION TO BE REMOVED BY ELECTRICAL, COORDINATE ON SITE BEFORE PROCEEDING.

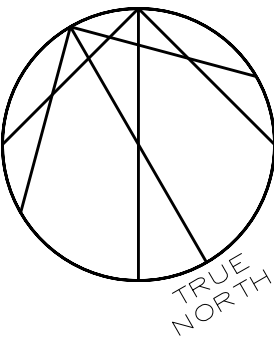
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Project
**MGH - Outpatient
Ophthalmology Clinic**

20 Wynford Dr Suite 310, North York, ON M3C 1J4
Drawing Title

DUCTWORK
DEMOLITION

Scale

1:50

Project No.

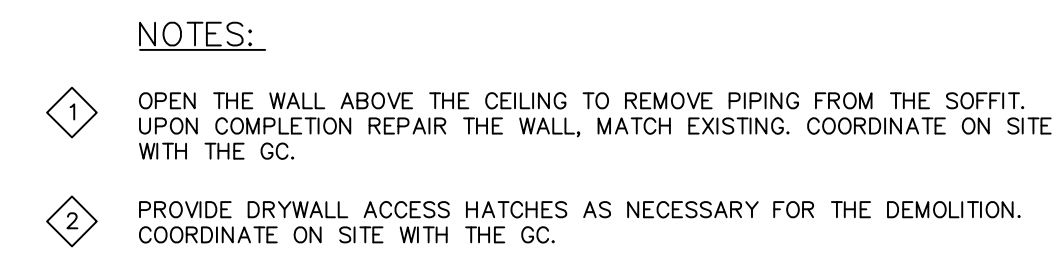
242519

Drawing No.

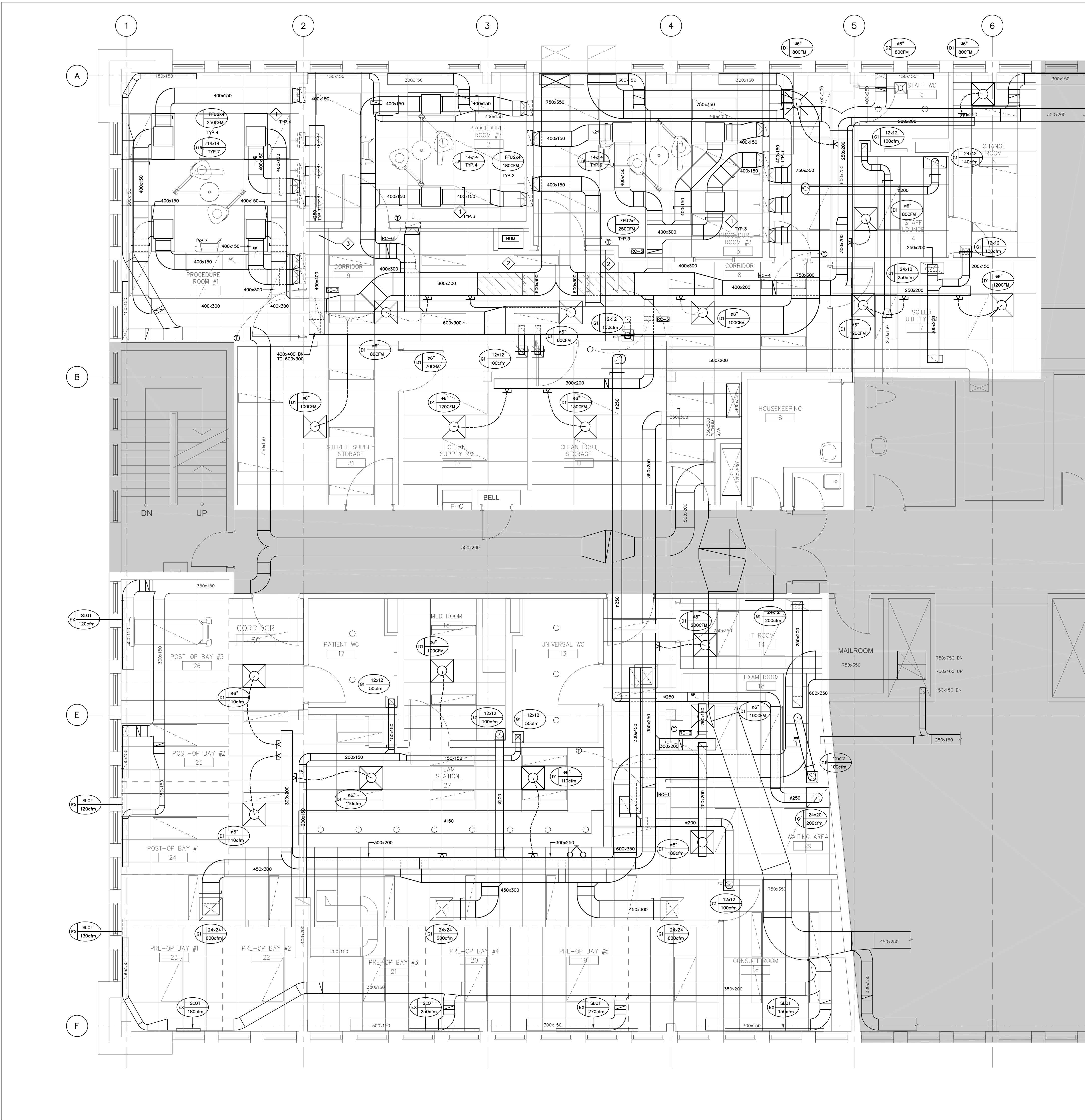
M-101



Scale	1:50
Project No.	242519
Drawing No.	M-201



Scale	1:50
Project No.	242519
Drawing No.	M-202



GENERAL:

1 PROVIDE DIFFUSERS AND GRILLES AS PER SCHEDULE:

GRILLES&DIFFUSERS SCHEDULE		
D1	24x24SPD31B12	E.H.PRICE
D1	12x12SPD31B12	E.H.PRICE
G1	EGGGRATE80TB/B12	E.H.PRICE
LLR	14x14 SIZE, 53OFF/SM/LB12	E.H.PRICE

PROVIDE 12"-DEEP BACK BOX FOR THE EGGGRATE GRILLES. SPRAY-PAINT BLACK THE INTERIOR OF THE BOX.

3 RETAIN NAYLOR MECHANICAL, TO RECOMMISSION THE RTU. CONDUCT FULL INSPECTION INCLUDING, BUT NOT LIMITED TO COMPRESSORS, HEAT EXCHANGER, COILS, DAMPERS AND CONTROLS. ALLOW FOR NEW SHEAVES AND BELTS, AS NECESSARY FOR THE AIR BALANCING. ALLOW FOR NEW THERMOSTAT.

4 RETAIN NAYLOR MECHANICAL, TO REINSTALL THE HUMIDIFIER, INCLUDING THE UNIT, THE DISPERSION WANDS, ALL NECESSARY PIPING AND CONTROLS. THE POWER FEEDER WILL BE TERMINATED BY ELECTRICAL. ALLOW FOR NEW BOTTLE. INSPECT THE CONDITION OF THE HUMIDISTAT AND THE HIGH LIMIT AND ADVISE SHOULD REPLACEMENT IS REQUIRED.

5 ALL SUPPLY AND RETURN DUCTWORK SHALL BE CLEAN. ALL DUCT PIECES SHALL BE DELIVERED TO THE SITE WITH ENDS SEALED WITH PLASTIC FILM. REMOVE SEALS ONLY PRIOR TO INSTALLATION. DO NOT LEAVE OPEN ENDS.

6 PROVIDE TWO SETS OF 14x14x1 MERV8 FILTERS FOR THE LO LEVEL RETURN GRILLES. INSTALL ONE SETS OF FILTERS UPON INSTALLATION OF THE GRILLES. INSTALL THE SECOND SET OF FILTERS PRIOR TO START-UP.

7 CSA Z-317.2 AIR FLOWS COMPLIANCE MATRIX.

ROOM #	ROOM	AREA ft2	CSA		DESIGN	
			ACH (1)	SUPPLY cfm	RETURN cfm	EXIST cfm
1	PROCEDURE ROOM #1	358	20	1015	1020	
2	PROCEDURE ROOM #2	252	20	713	720	
3	PROCEDURE ROOM #3	312	20	884	890	
4	STAFF LOUNGE	189	6	161	160	140
5	STAFF W/R	50	9			50
6	CHANGE ROOM	115	4	65	80	100
7	SOILED UTILITY	188	10	238	240	280
8	CORRIDOR	224	3	95	100	80
9	CORRIDOR	350	3	149	150	180
10	CLEAN SUPPLY	135	6	115	120	100
11	CLEAN STORAGE	155	6	132	130	110
12	HOUSEKEEPING	73	10			100
31	STERILE STORAGE	95	6	81	100	100
13	UNIVERSAL W/R	95				50
14	IT ROOM	74		200	200	
15	MEDROOM	112	6	95	100	100
16	CONSULT ROOM	106	6	90	90	50
17	PATIENT W/R	75				
18	EXAM ROOM	123	6	104	100	100
19-23	PRE-OP BAY	442	6	378	420	420
24-26	POST-OP BAY	297	6	252	280	280
27	TEAM STATION	247	6	210	220	220
29	WAITING	198	12	338	180	
30	CORRIDOR	489	3	208	220	200

(1) AIRCHANGES AS PER CSA-Z317.2, TABLE-1

NOTES:

1 INSTALL FFU SUPPORTED FROM ALL FOUR CORNERS C/W AIRPLANE CABLE AND ADJUSTABLE TURNBUCKLES. SUPPORT FROM THE JOISTS. ALLOW FOR TWO 7FT LENGTHS OF UNISTRUT TO SPAN BETWEEN THE JOISTS.

2 PROVIDE 150MM LONG SS DUCT WITH SLOPED BOTTOM AND DRAIN PORT. CONNECT TO DRAIN C/W AIR-GAP.

3 RUN DUCT ABOVE HIGH UP BETWEEN THE JOISTS.

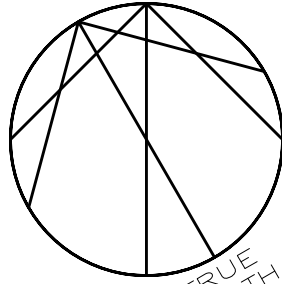
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Project Leader Checked ZD

Client



Project
MGH - Outpatient
Ophthalmology Clinic

20 Wynford Dr Suite 310, North York, ON M3C 1J4

Drawing Title

DUCTWORK

Scale

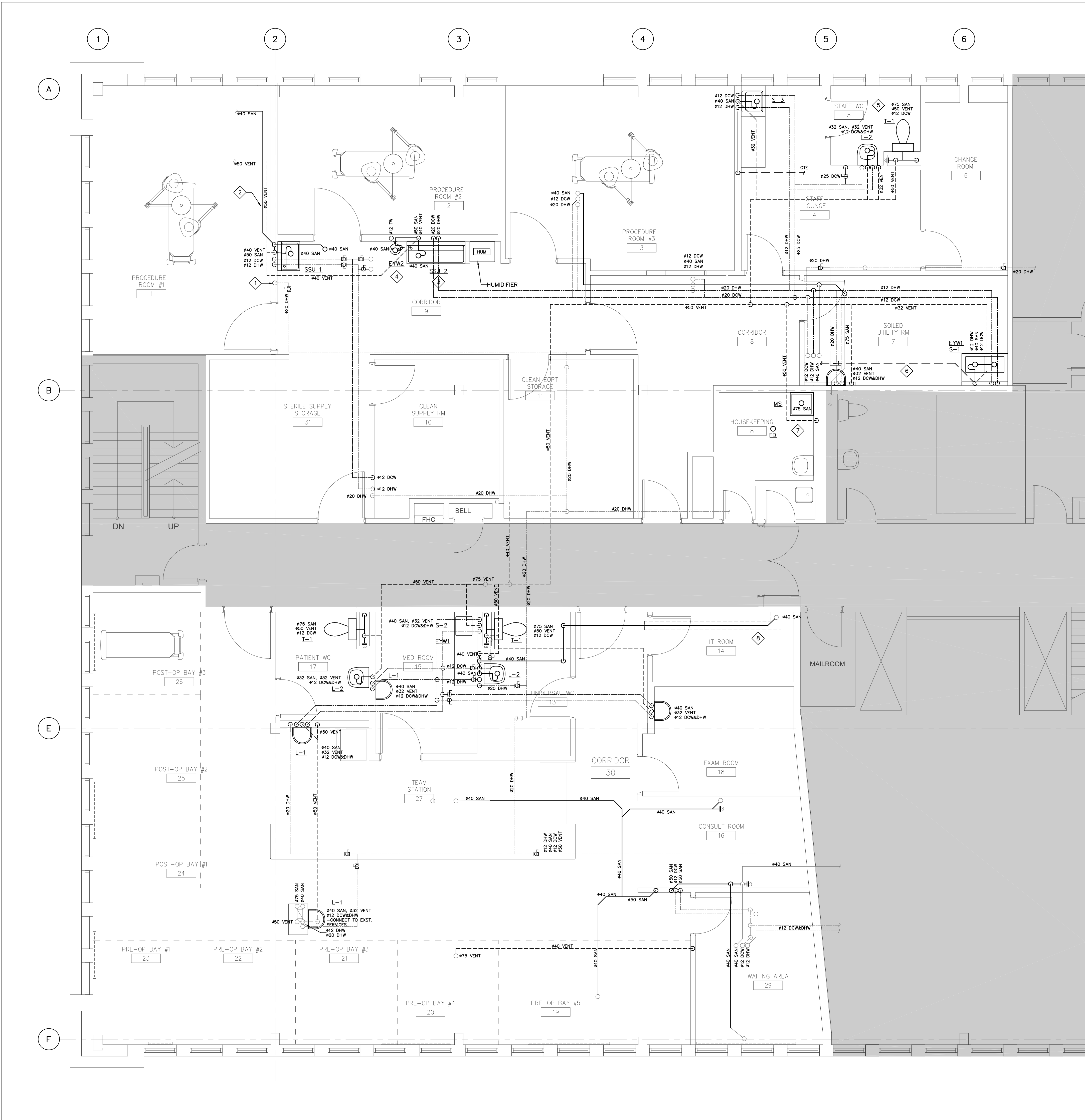
1:50

Project No.

242519

Drawing No.

M-301



- LEGEND:**
- #100 SAN— EXISTING PIPING
 - #75 SAN— NEW PIPING
- GENERAL:**
- 1 PROVIDE NEW PLUMBING FIXTURES AS PER SCHEDULE. CONNECT TO EXISTING SANITARY DRAINAGE, VENT AND WATER. MODIFY THE EXISTING PIPING TO SUIT NEW FIXTURES.
 - 2 CORE SLAB AS NECESSARY FOR THE NEW FIXTURES. SCAN SLAB AND SUBMIT WRITTEN REPORT FOR APPROVAL OF THE CORING LOCATIONS BY THE CONSULTANTS AND FACILITIES.
 - 3 FOR EXACT LOCATION AND ELEVATION OF THE NEW FIXTURES REFER TO ARCHITECTURAL.
 - 4 RUN ALL NEW PIPING IN THE WEB OF THE JOISTS TO CLEAR THE SPACE BELOW THE JOISTS FOR THE DUCTWORK. COORDINATE ON SITE WITH SHEET METAL.
- NOTES:**
- 1 CONNECT TO EXISTING BELOW SLAB.
 - 2 RUN PIPING ABOVE THE JOIST, CLOSE TO THE WALL.
 - 3 CONNECT DRAIN, HOT AND COLD WATER TO EXISTING SERVICES BELOW SLAB WHERE OLD SCRUB SINK DEMOLISHED.
 - 4 EYEWASH SUPPLIED WITH TEMPERED WATER FROM MIXING VALVE. INSTALL MIXING VALVE C/W LINE ISOLATION IN A RECESSED STAINLESS STEEL BOX.
 - 5 CONNECT SINK AND TOILET TO EXISTING DRAINAGE FROM DEMOLISHED WASHROOM. REROUTE THE SEMOLISHED #25 DCW RISER THROUGH THE WALLS TO REUSE.
 - 6 CONNECT SINKS TO EXISTING DRAINAGE FROM THE WASHROOM.
 - 7 FIELD RUN HOT AND COLD WATER FROM THE PIPING CHASE FOR THE WALL MOUNTED FAUCET.
 - 8 PROVIDE SHEET METAL DRIP TRAY 4" DEEP C/W SOLDERED CORNERS.

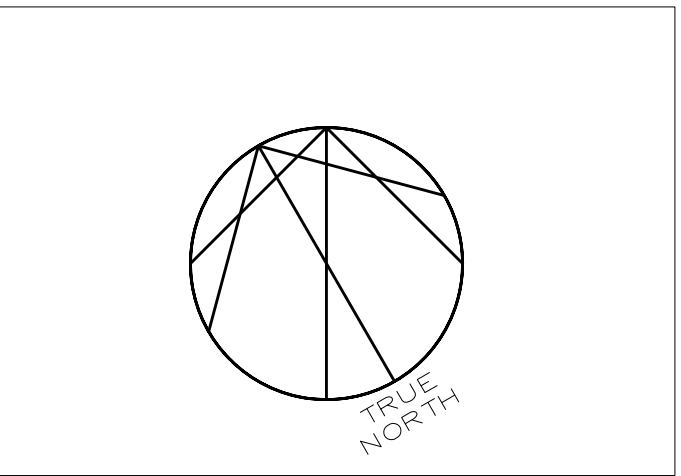
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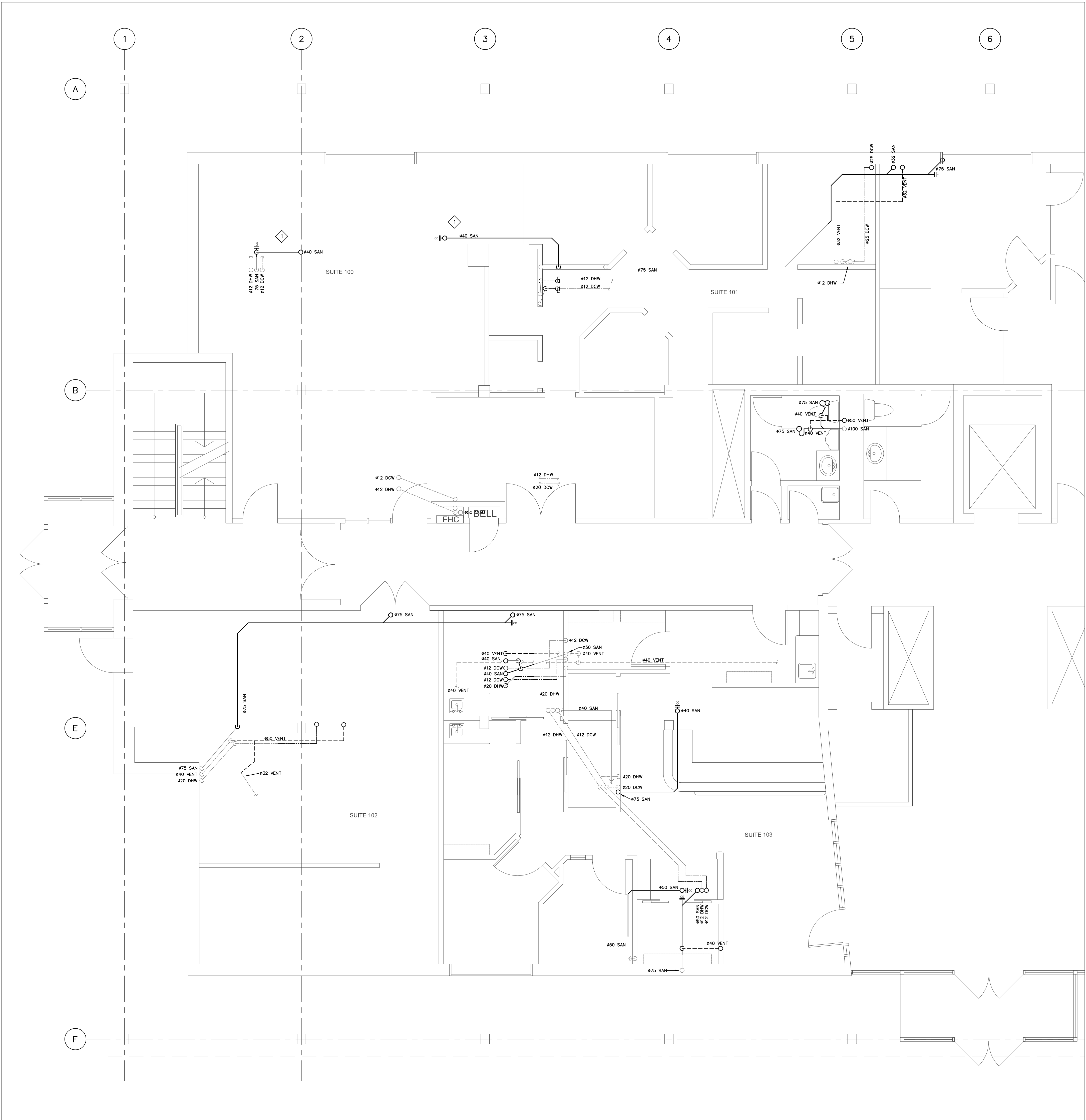
Project

MGH - Outpatient Ophthalmology Clinic

20 Wynford Dr Suite 310, North York, ON M3C 1J4
Drawing Title

PLUMBING

Scale	1:50
Project No.	242519
Drawing No.	M-401



NOTES:

◇ PROVIDE DRYWALL ACCESS HATCHES AS NECESSARY FOR THE DEMOLITION. COORDINATE ON SITE WITH THE GC.

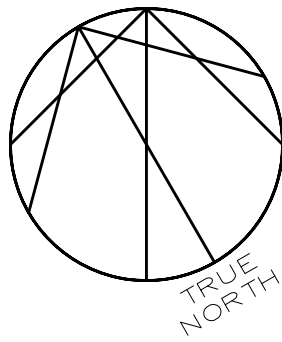
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MGH - Outpatient
Ophthalmology Clinic

20 Wynford Dr Suite 310, North York, ON M3C 1J4

Drawing Title

PLUMBING -LOWER LEVEL

Scale

1:50

Project No.

242519

Drawing No.

M-402

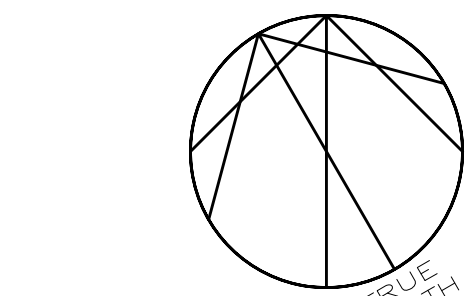
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TORONTO EAST HEALTH NETWORK

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Drawing Title

LEGEND, LUMINAIRE
SCHEDULE AND
DRAWINGS LIST

Scale
Project No.
242519
Drawing No.
E-001

LEGEND

FLUORESCENT LUMINAIRE – TYPE AS NOTED

INCANDESCENT, COMPACT FLUORESCENT OR LED LUMINAIRE
REFER TO LUMINAIRE SPECIFICATION

SINGLE POLE, SINGLE THROW TOGGLE SWITCH ("3" DENOTES
3-WAY, "4" DENOTES 4-WAY, "PL" DENOTES PILOT LIGHT.
BATTERY PACK LIGHT

BATTERY PACK LIGHT C/W REMOTE HEADS

DOOR SWITCH.

DIMMER SWITCH.

OCCUPANCY SENSOR

LUMINAIRE CONNECTED TO EMERGENCY POWER

EXIT SIGN

DENOTES REFER TO NOTE

DENOTES RECEPTACLE/EQUIP. CONNECTED TO EMERGENCY POWER

DENOTES KEY OPERATED.

DENOTES TWISTLOCK.

DENOTES WATERTIGHT (CSA ENCLOSURE 4)

DENOTES WEATHER PROOF (NEMA TYPE 3R)

DENOTES DEVICE MOUNTED ABOVE COUNTER TOP, REPER TO
ARCHITECTURAL DETAILS.

DENOTES GROUND FAULT INTERRUPTER.

DENOTES HOUSEKEEPIG

DENOTES DEVICE(S) TO BE PEDESTAL MOUNTED.

DENOTES DEVICE(S) TO BE FLUSH MOUNTED IN
MILLWORK.

DENOTES EXISTING TO REMAIN.

DENOTES EXISTING TO BE REMOVED AND HANDED OVER TO OWNER.

DENOTES EXISTING TO BE RELOCATED.

DENOTES EXISTING SHOWN IN RELOCATED POSITION.

DENOTES POINT TO POINT DATA CONNECTION.

DENOTES "UNLESS OTHERWISE NOTED".

CIRCUIT BREAKER, 3P – UNLESS INDICATED OTHERWISE

DRAW OUT CIRCUIT BREAKER, 3P – UNLESS INDICATED OTHERWISE

DISTRIBUTION TRANSFORMER

FUSIBLE DISCONNECT SWITCH

DOOR CONTACT

EXIT BUTTON

MAGNETIC HOLD OPEN DEVICE

MAGNETIC LOCK DEVICE

15A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE,
WALL MOUNTED (12" AFF, U.O.N.)

15A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE,
WALL MOUNTED (ABOVE COUNTER TOP, U.O.N.)

15A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE,
MOUNTED IN TWO CHANNELS RACEWAY.

2x15/20A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE
IN COMMON BOX, WALL MOUNTED.

2x15/20A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE
IN COMMON BOX, WALL MOUNTED (ABOVE COUNTER TOP)

15/20A-125V 1PH-3W GROUNDED DUPLEX RECEPTACLE,
WALL MOUNTED (12" AFF, U.O.N.)

15A-125V 1PH-3W GROUNDED RECEPTACLE, SURFACE MOUNTED

30A-250V 1PH-3W GROUNDED SINGLE RECEPTACLE
WALL MOUNTED (12" AFF, UNLESS INDICATED OTHERWISE)

15A-125V 1PH-3W GROUNDED SINGLE RECEPTACLE,
C/W 5A USB CHARGING PORTS – TYPE A&C

FURNITURE FEED– FROM TOP

FURNITURE FEED– FROM BOTTOM

120V CONNECTION TO EQUIPMENT AS INDICATED.

208V, 1PH CONNECTION TO EQUIPMENT AS INDICATED.

208V, 3PH CONNECTION TO EQUIPMENT AS INDICATED.

220V, 1PH CONNECTION TO EQUIPMENT AS INDICATED.

600V, 3PH CONNECTION TO EQUIPMENT AS INDICATED.

VOICE OUTLET – C/W CAT 6 VOICE CABLE IN 1" CONDUIT
TO NEAREST TELECOM. CLOSET.

DATA OUTLET – C/W CAT6A DATA CABLE
IN 1" CONDUIT TO NEAREST DATA CABLE TRAY.

VOICE OUTLET – C/W NUMBER (n) OF CAT 6 VOICE
CABLES IN CONDUIT(S) AND BOX(S) TO SUITE
NUMBER OF CABLES, TO NEAREST TELECOM. CLOEST.

DATA OUTLET – C/W NUMBER (m) OF CAT6A DATA
CABLES IN CONDUIT(S) AND BOX(S) TO SUITE
NUMBER OF CABLES, TO NEAREST DATA CABLE TRAY.

COMBINATION DATA AND VOICE OUTLET – C/W NUMBER (m)
OF DATA & (n) VOICE CAT6A CABLES IN CONDUIT(S) AND BOX(S)
TO SUITE NUMBER OF CABLES, TO NEAREST DATA CABLE TRAY.

WIRELESS ACCESS POINT DATA OUTLET C/W CAT 6 CABLE
IN 1" CONDUIT TO NEAREST TELECOM. CLOSET

CELL PHONE SERVICE EMITTER

POWER, DATA AND VOICE MOUNTED IN TWO-CHANNEL RACEWAY.
LEGEND WIREMOLD AL5200 UNLESS OTHERWISE NOTED.

FIRE ALARM SMOKE DETECTOR

FIRE ALARM HEAT DETECTOR

FIRE ALARM HORN

FIRE ALARM STROBE

FIRE ALARM SPEAKER STROBE COMBINATION

DENOTES ELECTRICAL EQUIPMENT CONNECTED TO PANEL 2A1,
CIRCUIT #3 SWITCHED GROUP 4

PANELBOARD – "PP" DENOTES POWER PANEL
– "LP" DENOTES LIGHTING PANEL
TYPICAL PANEL NOMENCLATURE DESCRIPTION ARE AS FOLLOWS:
LOCATION–FLOOR NUMBER
DESIGNATION (A-Z=NORMAL POWER EXCEPT E,F,W,Z=EMERGENCY POWER)
VOLTAGE (2=208V OR 120/208V, 6=347/600V)

FLOOR MOUNTED ELECTRICAL EQUIPMENT COMPLETE WITH
100MM HIGH HOUSEKEEPING PAD.
"DP" DENOTES DISTRIBUTION PANEL , "MCC" DENOTES
MOTOR CONTROL CENTRE, "MS" DENOTES MAIN SWITCHBOARD,
"TX" DENOTES TRANSFORMER

WALL MOUNTED ELECTRICAL DISTRIBUTION EQUIPMENT.
"SP" DENOTES SPLITTER TROUGH, "SB" DENOTES SPLITTER
BOX,
"DP" DENOTES DISTRIBUTION PANEL.

EMERG. PUSH BUTTON

MECHANICAL EQUIPMENT REFER TO EQUIPMENT SCHEDULE.

DISCONNECT SWITCH.

COMBINATION MAGNETIC MOTOR STARTER.

MAGNETIC MOTOR STARTER.

MANUAL MOTOR STARTER.

CONTROL DEVICE/SWITCH

JUNCTION BOX

NURSE CALL PATIENT STATION

NURSE CALL ANNUNCIATOR PANEL

WALL MOUNTED EMERGENCY NURSE CALL STATION
AT 6'-0" WITH PULL CORD IN WASHROOMS

NURSE CALL CORRIDOR DOME LIGHT WALL OR CEILING MOUNTED (WHITE, GREEN,
RED AND BLUE INDICATORS)

SAFETY SCAN SWITCH

LOGIC RELAY (CX-33)

DOOR OPERATOR WAVE OPEN SENSOR

DOOR OPERATOR WAVE LOCK SENSOR

OUTLET FOR PUSH TO LOCK BUTTON

CARD READER

DOOR CONTACT

ELECTRIC STRIKE

ELECTRIC LOCKSET

EMERGENCY ASSISTANCE KIT

EMERGENCY LIGHT

REQUEST TO EXIT SENSOR

CCTV CAMERA

FIRE ALARM ANNUNCIATOR PANEL

PA/PAGING SPEAKER

FIRE ALARM SPEAKER

FIRE ALARM MANUAL PULL STATION

FIRE FIGHTERS HAND SET

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	LAMP DATA			DRIVER		
		TYPE	WATTS	COLOUR	MOUNTING		
F1	2'X4' BACKLIT FLAT PANEL, FLUSH DIFFUSER, WHITE 50,000HRS AT 70%, 7YEAR WARRANTY	LED	5250lm 30-40-50W SELECTABLE	35000K TUNABLE	85	RECESSED T-BAR	120V DIMMABLE 0-10V
F2	1'X4' BACKLIT FLAT PANEL, FLUSH DIFFUSER, WHITE 50,000HRS AT 70%, 7YEAR WARRANTY	LED	5250lm 20-30-40W SELECTABLE	35000K TUNABLE	85	RECESSED T-BAR	120V DIMMABLE 0-10V
FC1	24" WRAP, POLYCARBONATE WHITE LENS	LED	22W	4000K TUNABLE	85	SURFACE	120V DIMMABLE 0-10V
B1	6" ROUND LED DOWNLIGHT, SELF-FLANGED, SPECULAR CLEAR, MEDIUM BEAM	LED	2000lm	3500K	97	RECESSED CWB	120V DIMMABLE 0-10V
X1	UNIVERSAL EXIT SIGN "RUNNING MAN" – EDGE-LIT, GREEN, UNIVERSAL FACES	LED				UNIVERSAL MOUNTING	120V
OR	FLEX LUX E-100	LED				CEILING SUPPORT STRUCTURE	120V
	APPROVED MANUFACTURER: MEDICANA						

1 TYP. SINGLE DOOR WITH CARD READER
E-001 NTS

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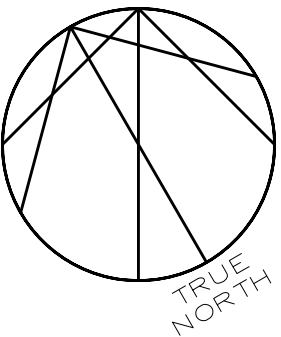
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SPECIFICATIONS

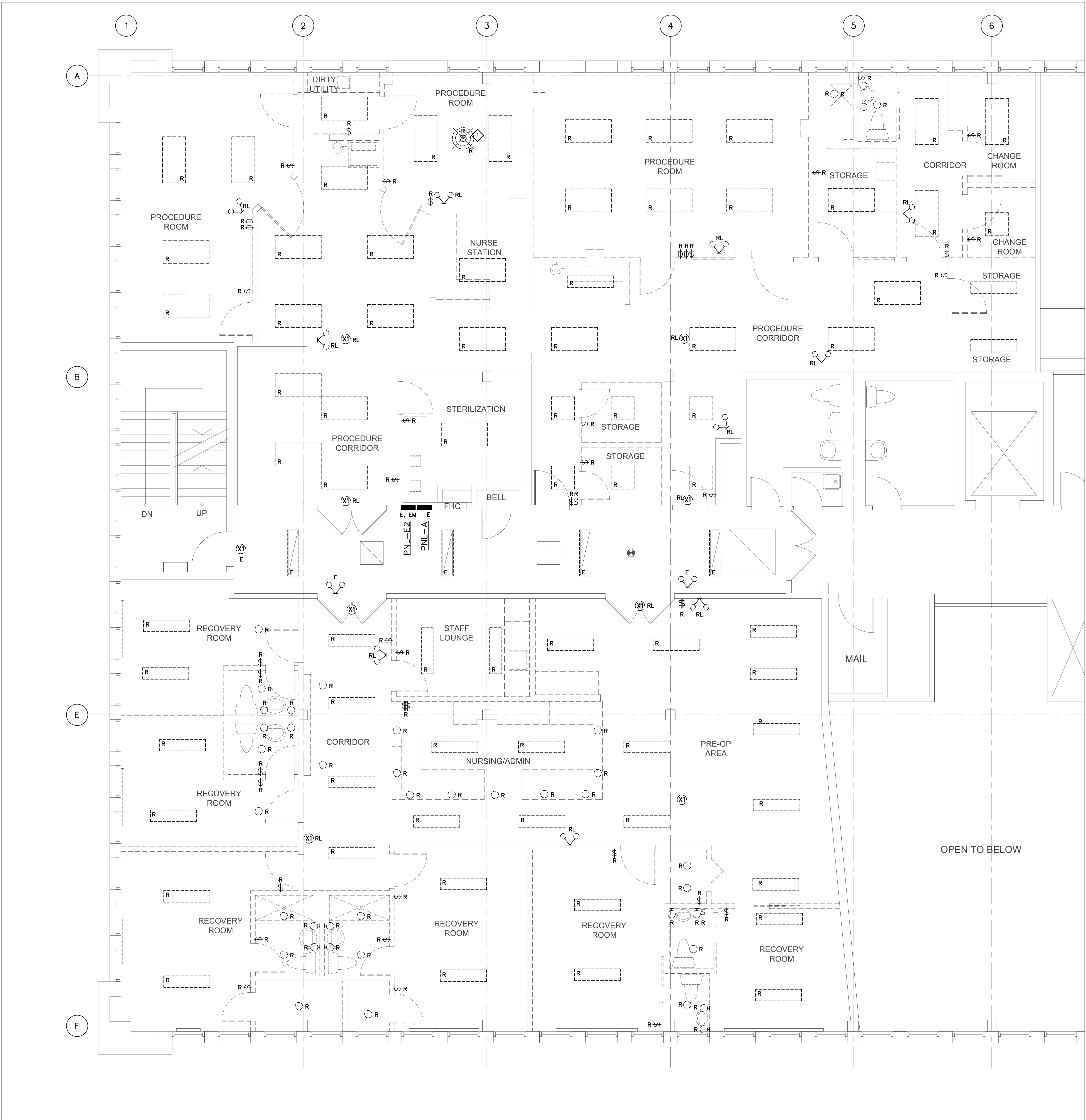
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Project No.
242519

Drawing No.
E-002

SPECIFICATIONS

PART A – GENERAL		
1 CODES & REGULATIONS	11.2 AS-BUILT DRAWINGS SHALL INCORPORATE ALL CHANGES AND DEVIATIONS FROM TENDER DRAWINGS, INCLUDING ALL MAIN CONDUIT RUNS, CABLE TRAYS, JUNCTION BOXES, AND INFORMATION RECORDED ON RECORD DRAWINGS DURING CONSTRUCTION.	12 GROUNDING
1.1 ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODE, C.S.A. STANDARDS, UNDERWRITERS' LABORATORIES, ALL APPLICABLE LOCAL CODES, AND ALL OTHER AUTHORITIES HAVING JURISDICTION. THESE CODES AND REGULATIONS CONSTITUTE AN INTEGRAL PART OF THE SPECIFICATIONS.	11.3 ENGINEER'S STAMP AND COMPANY LOGO SHALL BE REMOVED FROM DRAWINGS. DRAWINGS SHALL BE MARKED "AS-BUILT" ALONG WITH ELECTRICAL CONTRACTOR'S NAME.	12.1 ALL GROUNDING SHALL CONFORM TO THE ELECTRICAL SAFETY CODE AND LOCAL AUTHORITY REQUIREMENTS.
1.2 ALL WORK SHALL COMPLY WITH SECTION 24 (PATIENT CARE AREAS) OF OESC.	12 CLOSE-OUT DOCUMENTS	12.2 PROVIDE SEPARATE GREEN INSULATED GROUND CONDUCTOR IN EVERY POWER CONDUIT TO ALL DEVICES, LUMINAIRES, EQUIPMENT, AND WITH ALL FEEDERS. APPLIES FOR ALL NEW WORK, EXISTING INSTALLATION IS GRAND-FATHERED.
2 BUILDING STANDARDS	12.1 AFTER COMPLETION OF THE PROJECT, PROVIDE THREE SETS OF THE FOLLOWING DOCUMENTS TO THE BUILDING OWNER, THE TENANT, AND THE ENGINEER: <ul style="list-style-type: none">FULL SIZE AS-BUILT DRAWINGS.APPROVED SHOP DRAWINGS.ESA ELECTRICAL INSPECTION REPORT.FIRE ALARM VERIFICATION REPORT AND CERTIFICATE.DATA OUTLETS CERTIFICATION TESTS.NURSECALL COMMISSIONING.ACCESS CONTROL COMMISSIONING.CCTV COMMISSIONING.INTRUSION AND PANIC DURESS COMMISSIONING.MILESTONE INTEGRATION COMMISSIONING.WRITTEN WARRANTY.	13 NEUTRAL
3 SITE VISIT	12.2 PROVIDE THE ABOVE DOCUMENTS IN .PDF FORMAT.	13.1 ALL NEUTRAL WIRING SHALL CONFORM TO THE ELECTRICAL SAFETY CODE AND LOCAL AUTHORITY REQUIREMENTS.
3.1 THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL DRAWINGS CAREFULLY TO DETERMINE THE EXTENT OF WORK AFFECTING THE EXISTING BUILDING. DETERMINE AND INCLUDE IN THE TOTAL PRICE, THE TOTAL COST OF LABOUR AND MATERIAL TO DISCONNECT, REMOVE, RELOCATE, BLANK OFF, REROUTE OR MAKE SAFE ALL EXISTING SERVICES, CONDUITS, , BOXES, LUMINAIRES AND EQUIPMENT AS REQUIRED.	PART B – EXECUTION	13.2 ALL SINGLE PHASE CIRCUITS ARE TO HAVE DEDICATED NEUTRAL CONDUCTOR.
3.2 NO CLAIM FOR EXTRA COST FOR ADDITIONAL WORK WILL BE ENTERTAINED FOR OBVIOUS CONSIDERATIONS THAT MAY HAVE BEEN OVERLOOKED.	1 WORKMANSHIP	14 DIRECTORY
4 PERMITS & INSPECTIONS	1.1 ALL WORK SHALL BE CARRIED OUT AND PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/DESIGN CONSULTANT. ANY UNSATISFACTORY WORK BY THIS DIVISION SHALL BE REPLACED WITHOUT EXTRA COST TO THE OWNER.	14.1 PROVIDE TYPEWRITTEN DIRECTORIES FOR NEW AND EXISTING PANELBOARDS WITHIN THE AREA OF WORK, TO REFLECT THE LATEST REVISIONS. LABELING TO BE BASED ON ROOM NUMBERS AND/OR LOCATION AND LOAD TYPES.
4.2 ONCE THE ELECTRICAL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH CERTIFICATES VERIFYING THAT THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH ALL CODES, BUILDING STANDARDS AND ALL AUTHORITIES HAVING JURISDICTION.	1.2 THE CONSTRUCTION SITE SHALL BE KEPT CLEAN AND ANY DEBRIS AND CONSTRUCTION MATERIAL SHALL BE REMOVED FROM THE SITE THROUGHOUT THE CONSTRUCTION PERIOD AND ON COMPLETION OF THE WORK.	14.2 LABEL RECTANGLES, SWITCHES, DEVICES AND EQUIPMENT WITH PERMANENTLY ATTACHED LAMICOID NAME PLATE IDENTIFYING THE PANEL BOARD AND CIRCUIT BREAKER. COMPLY WITH MGH AND FACILITIES LABELING FORMAT.
5 INSURANCE	2 SCHEDULING	15 DISRUPTION OF EXISTING SERVICES
5.1 PROVIDE INSURANCE FOR THE DURATION OF THE PROJECT TO PROTECT THE BUILDING OWNER, TENANT, AND TRADES FROM ALL CLAIMS. SUBMIT, AT THE TIME OF THE BID, PROOF OF AN AMOUNT ACCEPTABLE TO BUILDING OWNER AND TENANT.	2.1 ALL WORK SHALL BE SCHEDULED AND COORDINATED TO AVOID ANY CONFLICTS WITH OTHER TRADES, BUILDING OWNER AND TENANT(S) DURING OR AFTER CONSTRUCTION. ALLOW FOR ALL NECESSARY PREMIUM TIME, ALL ALLOWANCE FOR THIS SHALL BE INCLUDED IN THE TENDER PRICE.	15.1 THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DISRUPTION TO THE EXISTING SERVICES. THE EXISTING BUILDING MUST BE KEPT IN OPERATION AT ALL TIMES. ARRANGE WORK IN SUCH A MANNER THAT INTERRUPTIONS IN SERVICES OCCUR ONLY AT SCHEDULED TIMES. INTERRUPTIONS SHALL BE SCHEDULED WITH THE ARCHITECT/DESIGN CONSULTANT AT LEAST 5 WORKING DAYS IN ADVANCE. OVERTIME WORK THAT MAY BE REQUIRED TO TIE-IN SERVICES AT NIGHT OR ON WEEKENDS SHALL BE INCLUDED IN THE TENDER AMOUNT. CONTRACTOR TO INCLUDE AT LEAST 2 AFTER HOURS SHUTDOWN IN THE BASE TENDER PRICE.
6 CONTRACT DOCUMENTS	3 DELIVERY OF EQUIPMENT	16 DEFECT OR INTERFERENCE
6.1 THE DRAWINGS FOR THE WORK OF THIS DIVISION ARE IN PART DIAGRAMMATIC INTENDED TO CONVEY THE SCOPE OF WORK, GENERAL ARRANGEMENT, APPROXIMATE SIZES AND LOCATIONS OF THE EQUIPMENT AND OUTLETS.	3.1 DELIVERY SCHEDULE OF ALL MAJOR ITEMS OF EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR AT THE START OF THE PROJECT. FAILURE TO IDENTIFY DELIVERY PROBLEMS MAY RESULT IN DELAY CLAIMS.	16.1 EXAMINE THE WORK OF THE OTHER TRADES, AS THEY AFFECT THIS DIVISION, REPORT AT ONCE TO THE ARCHITECT/DESIGN CONSULTANT ANY DEFECT OR INTERFERENCE THAT MAY AFFECT THE WORK OF THIS DIVISION OR THE GUARANTEE OF THIS WORK.
6.2 REPORT ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL, INTERIOR DESIGNER, MECHANICAL, STRUCTURAL, SECURITY, AUDIO VISUAL, KITCHEN, LANDSCAPE DRAWINGS, ETC, AND THE ENGINEER'S DRAWING TO THE ENGINEER PRIOR TO INSTALLATION.	4 TEMPORARY POWER	17 REMOVAL OF EXISTING EQUIPMENT
6.3 WHENEVER DIFFERENCES OCCUR BETWEEN PLANS AND DIAGRAMS, SCHEMATICS, AND BETWEEN SPECIFICATIONS AND DRAWINGS, THE MAXIMUM CONDITION SHALL GOVERN AND THE TENDER SHALL BE BASED ON WHICHEVER IS THE GREATER AMOUNT.	4.1 PROVIDE TEMPORARY ELECTRICAL POWER FOR THE WORK OF THIS TRADE AND OTHER TRADES AS REQUIRED BY THE GENERAL CONTRACTOR OR THE TENANT.	17.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AND REMOVING ALL ELECTRICAL EQUIPMENT FROM AREAS BEING ALTERED OR DEMOLISHED. WIRING, CONDUIT AND EQUIPMENT WHICH IS REQUIRED TO MAINTAIN SERVICE IN OTHER PARTS OF THE BUILDING SHALL BE TEMPORARILY SUPPORTED, REROUTED, SERVICED OR RELOCATED AS REQUIRED.
7 SHOP DRAWINGS	5 LOCATION OF OUTLETS	17.2 EQUIPMENT TO BE RELOCATED SHALL BE VERIFIED FOR WORKING CONDITION. PROVIDE NEW IF NECESSARY AND FEASIBLE. EXTEND WIRING/CONDUIT AND RECONNECT TO SUIT.
7.1 SUBMIT SHOP DRAWINGS OF LUMINAIRES, PANELBOARDS AND OTHER MAJOR ELECTRICAL EQUIPMENT, AS REQUESTED BY ENGINEER, UNLESS OTHERWISE NOTED. EACH SHOP DRAWING SHALL BE CHECKED AND STAMPED AS BEING CORRECT BY THE GENERAL CONTRACTOR AND THE APPROPRIATE TRADE BEFORE SUBMISSION TO THE ENGINEER FOR APPROVAL.	5.1 THE ARCHITECT/DESIGN CONSULTANT SHALL HAVE THE RIGHT, AT ANY TIME, TO CHANGE THE LOCATION OF ANY OUTLET UP TO TEN FEET WITHOUT EXTRA COST TO THE TENANT, PROVIDED THAT NOTIFICATION OF SUCH CHANGES ARE ISSUED PRIOR TO THE INSTALLATION OF THE OUTLET.	17.3 OBSOLETE CONDUITS AND CABLES SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY AND SHALL BE REMOVED TO THE SOURCE. ALL EXISTING WIRING NOT REMOVED SHALL BE DISCONNECTED, BLANKED-OFF AND MADE SAFE.
8 RECORD DRAWINGS	6 ROUTING OF EQUIPMENT	17.4 UNLESS OTHERWISE ADVISED, ALL BASE BUILDING LUMINAIRES, TRANSFORMERS, PANELBOARDS AND DISCONNECT SWITCHES WHICH ARE REMOVED SHALL BE HANDED OVER TO THE BUILDING OWNER.
8.1 KEEP A RECORD SET OF DRAWINGS ON THE SITE ON WHICH SHALL BE CLEARLY INDICATED, THE EXACT LOCATION OF ALL OUTLETS, FIXTURES, FEEDER RUNS, PANELS, CONDUITS, JUNCTION BOXES, PULL BOXES, ETC. INFORMATION ON THESE DRAWINGS SHALL BE INCORPORATED IN THE AS-BUILT DRAWINGS UPON COMPLETION OF THE PROJECT.	6.1 NEW CONDUITS AND OTHER NEW SERVICES SHALL BE CAREFULLY ROUTED SO THAT THEY DO NOT INTERFERE WITH ANY EXISTING INSTALLATIONS. ROUTING OF EQUIPMENT IN BUILDING COMMON AREAS AND RISER ROOMS SHALL BE REVIEWED AND APPROVED BY BUILDING OWNER PRIOR TO INSTALLATION. ANY EXISTING CONDUITS, CABLE TRAYS, BUS DUCTS OR OTHER SERVICES THAT INTERFERE WITH THE NEW INSTALLATION SHALL BE RELOCATED UNDER THIS CONTRACT.	17.5 ALL REMOVED EQUIPMENT AND MATERIALS WHICH ARE NO LONGER REQUIRED, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF THE WORK.
9 EXTRA WORK	7 FLOOR PENETRATION	PART C – MATERIAL
9.1 IN CASES WHERE EXTRA WORK OF ANY KIND IS REQUIRED, OBTAIN WRITTEN INSTRUCTIONS FROM THE ARCHITECT/DESIGN CONSULTANT BEFORE PROCEEDING. PAYMENTS WILL BE MADE FOR AUTHORIZED CHANGES ONLY.	7.1 SCAN AND OBTAIN WRITTEN APPROVAL FROM BUILDING OWNER PRIOR TO PENETRATING ANY STRUCTURAL SURFACES OR FLOOR SLABS AND CARRY OUT THE WORK IN ACCORDANCE WITH THE BUILDING STANDARDS. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY ITEMS WHICH ARE DAMAGED DUE TO THIS WORK AT NO EXTRA COST TO THE BUILDING OWNER.	1 GENERAL
9.2 QUOTATION WITH BREAKDOWN OF MATERIAL, LABOUR, OVERHEAD, PROFIT, ETC. SHALL BE SUBMITTED FOR EACH CHANGE. LABOUR UNITS SHALL BE BASED ON THE LATEST NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) LABOUR UNITS COLUMN ONE FOR THE COMPLETE DURATION OF THE PROJECT. MATERIAL PRICES SHALL BE BASED ON THE CURRENT NATIONAL PRICE SYSTEM WITH TRADE DISCOUNTS. HOURLY LABOUR RATE SHALL INCLUDE ALL RELATED CHARGES FOR SUPERVISION, HYDRO INSPECTION, HAND TOOLS, PARKING, CLEAN-UP, AS-BUILT DRAWINGS AND ADDITIONAL BONDING.	7.2 ALL NEW SERVICES THAT PENETRATE THE FLOOR SLAB OR FIRE RATED WALLS OR CEILINGS SHALL BE IN CONDUIT AND SHALL BE SEALED WITH AN APPROVED, NON-SHRINK, WATERPROOF AND FIREPROOF SEALANT.	1.1 ALL ELECTRICAL EQUIPMENT SHALL BE C.S.A. APPROVED AND BEAR THE C.S.A. STAMP. ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.
10 WARRANTY	8 CUTTING AND PATCHING	2 WIRE AND CABLE
10.1 THE CONTRACTOR SHALL PROVIDE THE TENANT WITH A WRITTEN ONE-YEAR WARRANTY, COMMENCING ON THE DATE OF ACCEPTANCE. THE WARRANTY SHALL COVER THE COMPLETE ELECTRICAL INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTS IN MATERIALS OR WORKMANSHIP THAT OCCUR DURING THE WARRANTY PERIOD AT A TIME CONVENIENT TO THE TENANT/BUILDING OWNER, AND AT NO EXTRA COST.	8.1 ALL CUTTING AND PATCHING REQUIRED TO THE BUILDING STRUCTURE FOR THE WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT, UNLESS OTHERWISE ADVISED BY THE GENERAL CONTRACTOR.	2.1 ALL WIRE AND CABLE SHALL BE COPPER WITH TYPE RW-90, X-LINK INSULATION, AND MINIMUM NO.12 AWG WIRE SIZE. NO.10 AND 12 TO BE SOLID, AND NO.8 AND LARGER TO BE STRANDED.
11 RECORD DRAWINGS	9 ACCESS PANEL	2.2 SIZE ALL WIRE FOR MAXIMUM 3% VOLTAGE DROP AT 80% LOAD AND 90% POWER FACTOR. APPLIES FOR ALL NEW WORK, EXISTING INSTALLATION IS GRAND-FATHERED.
11.1 PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION AS ELECTRONIC FILES IN AUTOCAD COMPATIBLE FORMAT.	9.1 ACCESS PANELS SHALL BE PROVIDED IN CEILINGS WHERE JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT CAN NOT BE LOCATED IN ACCESSIBLE LOCATIONS PROVIDED THAT APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECT/DESIGN CONSULTANT.	3 CONDUIT
	10 NOISE & VIBRATION	3.1 ALL WIRING IN CEILINGS AND PARTITIONS SHALL BE IN EMT CONDUIT WITH RAINTIGHT COUPLING AND CONNECTORS.
	10.1 ALL ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION TO THE OWNER'S SATISFACTION.	3.2 ALL WIRING IN SLABS SHALL BE IN SCHEDULE 40 RIGID PVC CONDUIT.
	11 MECHANICAL WIRING	3.3 AC-90 CABLE MAY BE PERMITTED FOR DOWN-DROPS FROM JUNCTION BOXES TO LUMINAIRES UNLESS PROHIBITED BY CODE OR BUILDING STANDARDS. AC-90 CABLE SHALL NOT BE USED IN ANY EXPOSED AREAS UNLESS OTHERWISE NOTED. AC-90 CABLE RUNS IN CEILING SPACE SHALL NOT EXCEED 1500MM (5') IN LENGTH. DO NOT TERMINATE AC-90 CABLE DIRECTLY TO PANEL BOARDS.
		3.4 PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTION TO TRANSFORMERS AND MOTORS, MINIMUM 1M (3') LENGTH.
		3.5 ALL CONDUITS SHALL BE INSTALLED WITH BUSHINGS AT EACH END. CONDUITS FOR COMMUNICATION WIRING SHALL BE TERMINATED ON EQUIPMENT RACK, BACKBOARD OR CABLE TRAY WITHIN THE ROOM.
		3.6 ALL EMPTY CONDUITS SHALL BE COMPLETE WITH NYLON PULL STRING. DO NOT CADDIE CLIP CONDUITS TO CEILING HANGERS.
		4 PULL BOXES
		4.1 A MINIMUM OF ONE PULL BOX SHALL BE INSTALLED FOR EVERY 30M (100') OF CONDUIT (EACH 90 DEGREE BEND SHALL EQUATE TO A 9M (30') LENGTH OF CONDUIT). NO MORE THAN TWO 90 DEGREE BENDS SHALL BE INSTALLED BETWEEN TWO PULL BOXES.



NOTES:

- REMOVE AND DISPOSE OF LIGHT FIXTURES AND SWITCHES.
- REMOVE AND STORE TO REUSE EXIT SIGNS AND EMERGENCY LIGHTING HEADS.
- REMOVE THE CONDUIT AND WIRING TO THE SOURCE.
- REUSE EXISTING EXIT SIGN CIRCUITS TO FEED NEW SIGNS.

◇ REMOVE AND DISPOSE OF SURGICAL LIGHT.

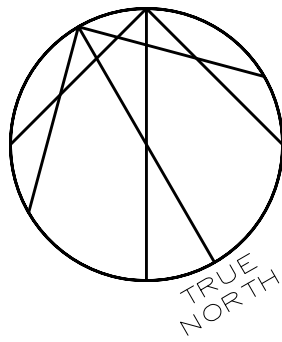
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Project

**MGH - Outpatient
Ophthalmology Clinic**

20 Wynford Dr Suite 310, North York, ON M3C 1J4

Drawing Title

LIGHTING DEMOLITION

Scale

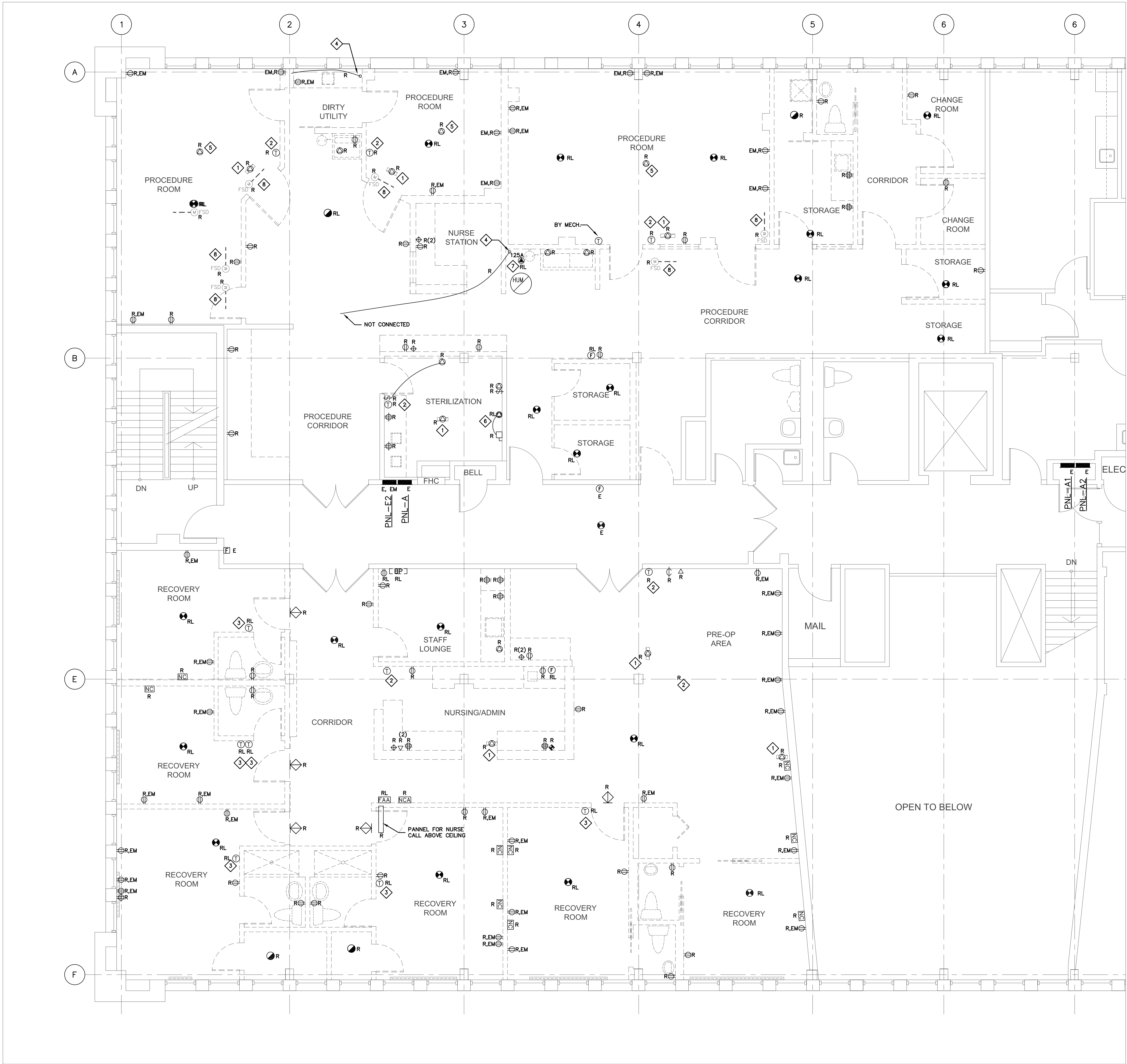
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Project No.

242519

Drawing No.

E-101



- NOTES:**
- a. WHERE RECEPTACLES AND DEVICES ARE DEMOLISHED REMOVE CONDUIT AND WIRING TO THE SOURCE.
 - b. REMOVE DATA CABLING TO THE BASEMENT DATA ROOM.
 - c. REMOVE VOICE CABLING TO THE BELL HEADBOARD.
 - d. REMOVE ALL ABANDONED VOICE AND DATA CABLING, TUBING AND ANCILLARIES FROM THE CEILING SPACE.
 - e. RELOCATE THE FIRE ALARM ANNUNCIATOR, THE SMOKE DETECTORS AND THE BELLS.
 - f. REMOVE THE NURSE CALL SYSTEM – ANNUNCIATOR, PANEL, LIGHTS AND CALL DEVICES.
- 1 ELECTRICAL DUCT HEATER, FED FROM PNL-A2. REMOVE FEEDER AND THE LINE VOLTAGE THERMOSTAT WITH THE ASSOCIATED WIRING.
- 2 REMOVE LINE VOLTAGE THERMOSTAT FOR ELECTRICAL DUCT HEATER THAT IS BEING DEMOLISHED. VERIFY THE CONNECTION BEFORE DEMOLISHING (TYP.).
- 3 RELOCATE LINE VOLTAGE THERMOSTAT FOR ELECTRICAL DUCT HEATER LOCATED UNDER THE FLOOR THAT SERVES THIS SPACE. IDENTIFY THE LOCATION OF THE HEATER AND REPORT TO THE ENGINEERS FOR REFERENCE OF THE NEW LOCATION OF THE THERMOSTAT.
- 4 REMOVE CABLE TO BELOW SLAB AND MAKE SAFE.
- 5 FOR SURGICAL LIGHT, ABOVE CEILING.
- 6 FED FROM TRANSFORMER IN BASEMENT MECHANICAL ROOM.
- 7 FOR ELECTRIC HUMIDIFIER, TO BE RELOCATED, FED FROM SPLITTER SP-2 IN THE BASEMENT MECHANICAL ROOM. DISCONNECT AND MAKE SAFE TO ALLOW FOR THE DEMOLITION.
- 8 DISCONNECT FIRE-SMOKE DAMPER. REMOVE POWER FEEDER AND FIRE ALARM INTERLOCK.

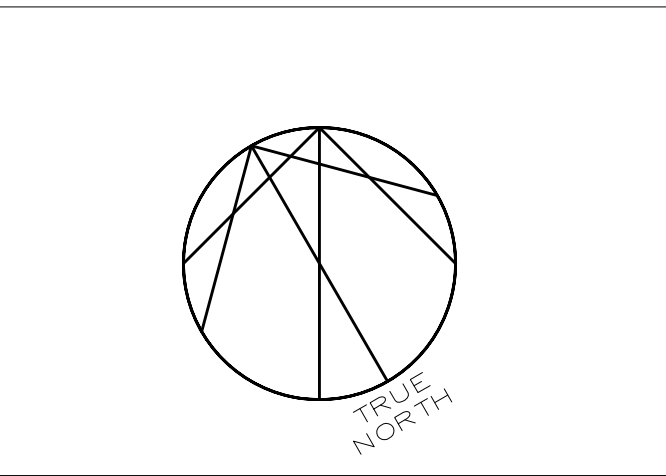
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PROFESSIONAL ENGINEER
5 Nov 2025
S. M. DIMITROV
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Project Leader	Checked	ZD

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MICHAEL GARRON HOSPITAL
TORONTO EAST HEALTH NETWORK

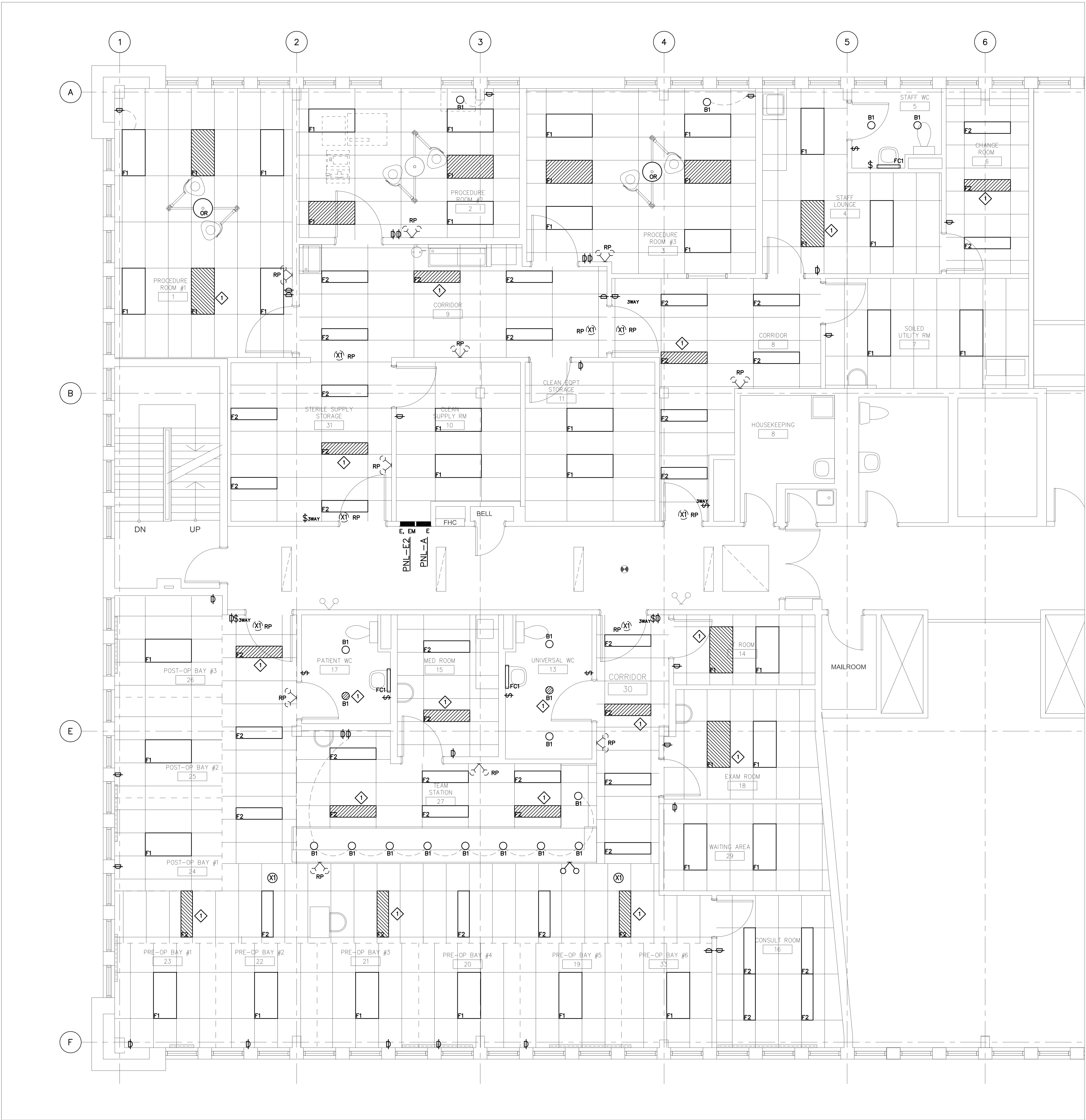
Project

MGH - Outpatient Ophthalmology Clinic

20 Wynford Dr Suite 310, North York, ON M3C 1J4
Drawing Title

POWER AND SYSTEMS DEMOLITION

Scale	1:50
Project No.	242519
Drawing No.	E-102



NOTES:

- FOR EXACT LOCATION OF LUMINARIES, DIMMERS AND DEVICES SEE ARCHITECTURAL.
- USE PANELS PNL-A AND PNL-E2 TO FEED NEW FIXTURES.
- REUSE EXISTING BATTERY PACK TO FEED THE RELOCATED EMERGENCY LIGHTING HEADS. PROVIDE ADDITIONAL TO MATCH EXISTING, AS NEEDED.
- REUSE EXISTING EXIT SIGN CIRCUITS TO FEED NEW AND RELOCATED EXIT SIGNS.
- PROVIDE DIMMER/SWITCH LUTRON DIVA DVSTY (0-10V) FOR ALL LED FIXTURES, EXCEPT THE WASHROOMS.
- OR LIGHTS SUPPLIED AND INSTALLED BY CONTRACTOR
-ROOM #2 ROUGH IN ONLY
-SUPPORT STRUCTURE BY ARCHITECTURAL

◇ PROVIDE UL-924 EMERGENCY POWER CONTROL RELAY, HUBEL ALCR1277 C/W 0-10V DIMMING OVERRIDE.

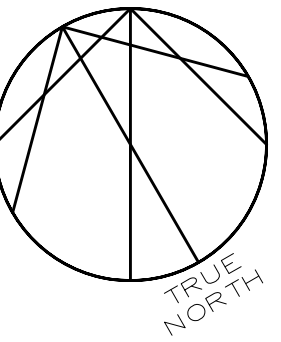
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Project
**MGH - Outpatient
Ophthalmology Clinic**

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Drawing Title

LIGHTING

Scale

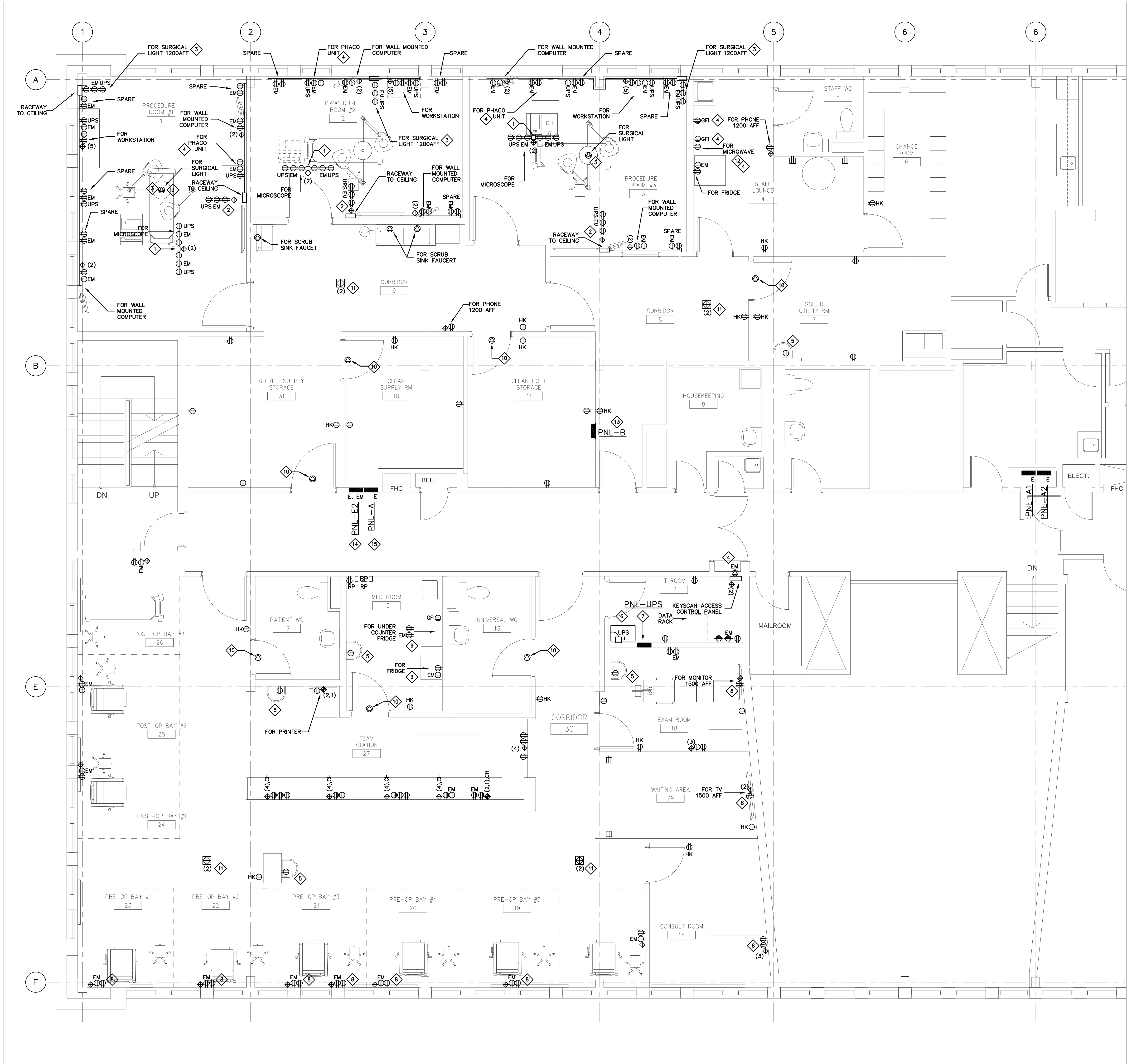
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Drawing No.

E-201



NOTES:

- 1. TWO-CHANNEL PACK-POLE: LEGRAND, WIREMOLD TELE-POWER AMTP-4, SATIN FINISH ALUMINUM. CONFIRM EXACT LOCATION ON SITE WITH ARCHITECTURAL. PROVIDE 5FT OF SLACK FOR ALL CABLES TO ALLOW FOR PACK POLE REPOSITIONING.
- 2. FOR SURGICAL MONITOR. LOCATE OUTLETS AT ELEVATION OF WALL BRACKET, APPROX. 1500AFF. PROVIDE CUSTOM LENGTH VIDEO CABLES - ONE DVI AND ONE HD-SVI FROM MICROSCOPE TO MONITOR. RUN UP THROUGH PACK-POLE, ACROSS THE CEILING AND DOWN THE VERTICAL WIREMOLD RACEWAY.
- 3. INSTALL VENDOR PROVIDED POWER SUPPLY MODULE AT THE BASE OF THE LIGHT. PROVIDE 5-15P CORD TO THE DESIGNATED RECEPTACLES, RUN THROUGH THE RACEWAY. PROVIDE CUTOUIT WITH A RUBBER GROMMET FOR THE CORD AND ENOUGH SLACK TO PLUG INTO THE DESIGNATED RECEPTACLES.
- 4. DEDICATED CIRCUIT.
- 5. POWER SUPPLY UNDER SINK SHROUD FAUCET. COORDINATE EXACT LOCATION WITH MECHANICAL ON SITE.
- 6. PROVIDE 15KVA ONLINE UPS VERITIV (LIEBERT) ITA-2, 15000VA 3PH, C/W MAINTENANCE BYPASS CABINET, 2-PACK EXTERNAL BATTERY AND A FLOOR STAND. THE UPS SHALL MAINTAIN 80% LOAD FOR MINIMUM OF 30MIN. ALL TERMINATIONS TO THE UPS SHALL BE IN FLEX.
- 7. PROVIDE 18-CIRCUIT 120/208V PANEL FED FROM THE UPS.
- 8. INSTALL IN A SURFACE MOUNTED DEVICE BOX. FEED FROM THE CEILING WITH A SURFACE MOUNTED RACEWAY WIREMOLD 2400D.
- 9. THESE TWO RECEPTACLES, FOR NORMAL AND EP, SHALL BE ON SHARED DEDICATED CIRCUITS.
- 10. FOR DOOR OPERATOR. PROVIDE DEDICATED 15A CIRCUIT.
- 11. PATCH WAPS TO DIFFERENT SWITCHES.
- 12. MOUNT ABOVE SHELVE, SEE ARCHITECTURAL FOR LOCATION AND ELEVATION.
- 13. NEW 42-CCT 120/208V PANEL FED FROM NORMAL POWER MAIN SWITCHBOARD IN BASEMENT ELECTRICAL ROOM.
- 14. FED FROM PANEL E1 IN BASEMENT MECHANICAL ROOM.
- 15. FED FROM PANEL A1 IN 2FL ELECTRICAL CLOSET.

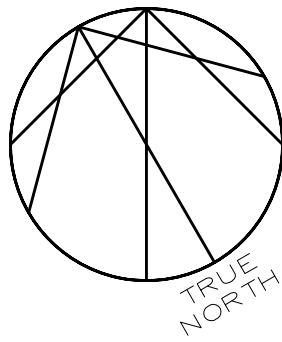
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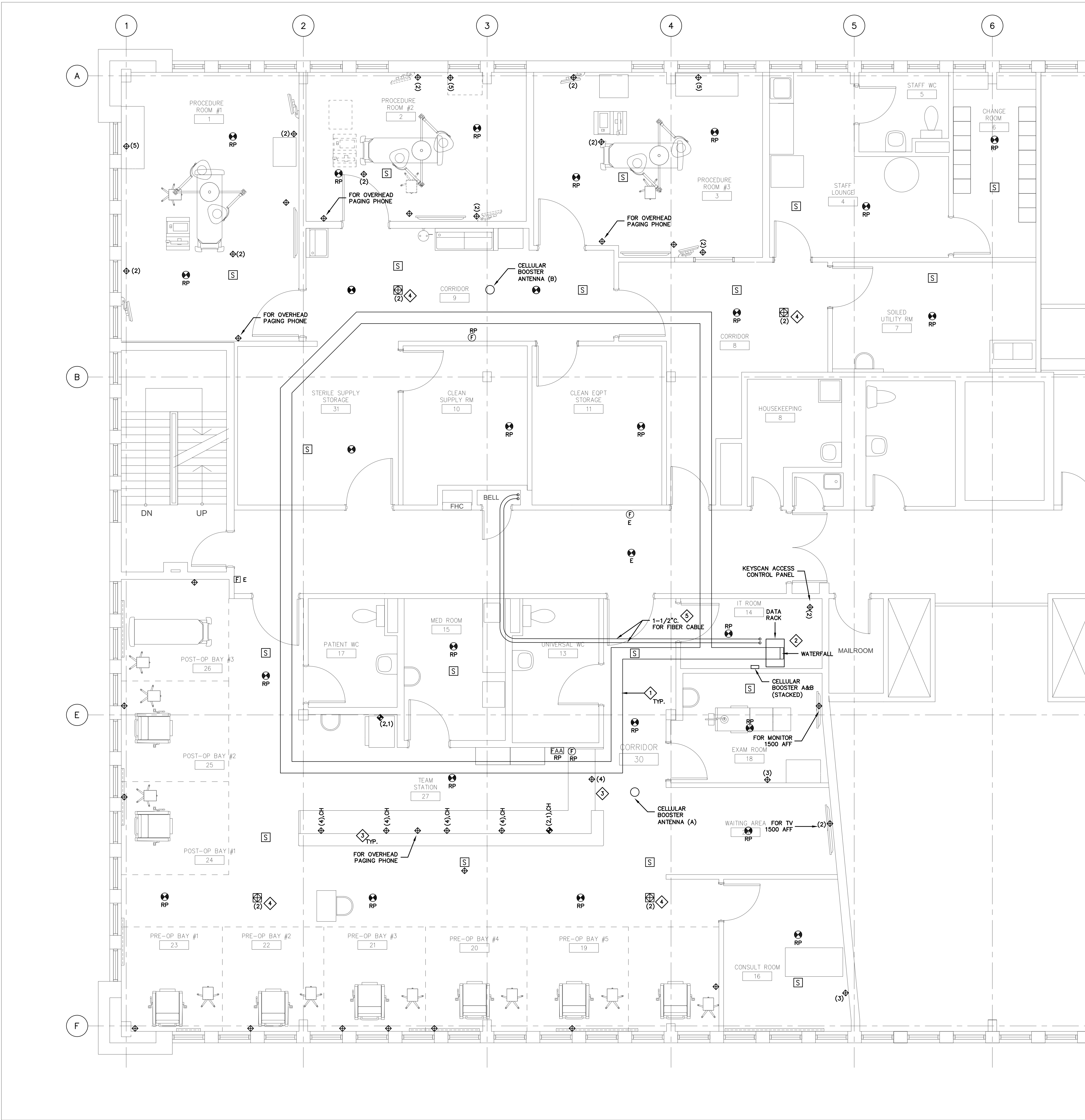


Project
**MGH - Outpatient
Ophthalmology Clinic**

20 Wynford Dr Suite 310, North York, ON M3C 1J4
Drawing Title

POWER AND DATA

Scale	1:50
Project No.	242519
Drawing No.	E-301



NOTES:

- a. FOR EXACT LOCATION AND ELEVATION RECEPTACLES AND DEVICES SEE ARCHITECTURAL. COORDINATE WITH GC ON SITE DETAILS OF FURNITURE.
- b. VOICE/DATA CABLING SHALL BE AS PER MGH STANDARD.

DATA CABLING SPECIFICATIONS:

- PROVIDE BELDEN 2-POST DATA RACK WITH SIDE CABLE MANAGERS, XCMFDR4X4.
- PROVIDE TWO (2) BELDEN 1PH/208V 30A POWER DISTRIBUTION UNITS (PDU) AND MOUNT ON THE RACK.
- PROVIDE RACK MOUNTED UPS: APC SMART-UPS, LINE INTERACTIVE, 1500VA, 2U, 120V, 6WEMA 5-15R OUTLETS, SMARTCONNECT PORT, SMARTSLOT, AVR AND LCO.
- PROVIDE TWO(2) BELDEN 1U 48 PORT HD.
- INSTALL OWNER SUPPLIED NETWORK SWITCHES.
- CONNECT ALL DATA OUTLETS TO THE NEW RACK IN IT ROOM 12.
- HORIZONTAL CABLING SHALL BE CAT 6A (SLIM), PLENUM-CMP RATED, 4PR, 23 AWG, COLOR WHITE.
- OVERALL HORIZONTAL PERMANENT LINK LENGTH SHALL NOT EXCEED 90M.
- ALL HORIZONTAL CABLES SHALL TERMINATE ON CAT6A HIGH DENSITY MODULAR RACK MOUNTED PATCH PANELS.
- CABLING CONTRACTOR RESPONSIBLE FOR FURNISHING ALL LABOUR, MATERIALS, SUPPLIES AND PERFORMING ALL OPERATIONS NECESSARY TO COMPLETE THE CATEGORY 6A INSTALLATION.
- JACK TERMINATIONS SHALL BE BELDEN, KEYCONNECT, R445 CAT 6A, YELLOW COLOR AS PER MGH STANDARD.
- INSTALL OWNER SUPPLIED WAPs C/W PATCH TO THE RACK.
- CONDUCT WIRELESS SITE SURVEY TO DETERMINE EXACT COUNT AND LOCATION OF WAPs. USE ONE OF THE MGH APPROVED PROVIDERS - RDEL, TGP OR COMWORX.
- SUPPLY 2 PATCH CABLES PER EACH DATA CABLE (1- 7FT & 1-10FT.) PATCH CABLES SHALL BE BELDEN, CAT 6A GXS, COLOR - AS PER MGH STANDARD.
- CABLES SHALL BE RUN CONTINUOUSLY WITH NO SPLICES.
- CABLES SHALL BE SUPPORTED ON CABLE TRAYS AN J-HOOKS OFF THE JOISTS.
- CONTRACTOR SHALL PATCH CABLES AT THE RACK LOCATION AS PER MGH PATCH SCHEDULE TEMPLATE.
- CABLING CONTRACTOR SHALL LEAVE 5M SERVICE COIL IN CEILING FOR FUTURE CHANGES.
- ALL FACEPLATES SHALL BE BELDEN KEYCONNECT MINIMUM 4-OUTLET PLATE WITH BLANK FILLERS INSTALLED IN ALL NON-USED OUTLETS; PLATE COLOR TO BE AS PER MGH STANDARD.
- ALL LABELING SHALL BE COMPLETED USING A MECHANICAL LABEL MAKER.
- CABLING CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AND CERTIFICATION TESTS AT THE COMPLETION OF PROJECT, INCLUDING:
 - PATCH SCHEDULE FOR ALL DATA DROPS
 - WIRELESS SITE SURVEY REPORT
 - WIRED NETWORK CABLE RESULTS (FLUKE TEST)
 - CERTIFICATION (UPS & EMERGENCY COMMISSIONING REPORT) OF POWER SOURCES IN NETWORK CLOSET
- CABLING CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL FULL HEIGHT WALL OR SLAB PENETRATIONS.

- c. RETAIN PBX-CANADA TO PROVIDE AN OVERHEAD PAGING SYSTEM C/W ALL HARDWARE, ALL DEVICES AS INDICATED ON THE DRAWINGS, ALL WIRING, PROGRAMING AND COMMISSIONING.
- IP PBX SERVER
 - 24-PORT PoE SWITCH FOR 19 INCH RACK MOUNTING.
 - VOIP POE CEILING SPEAKERS AND
 - 4 IP PHONES COMPATIBLE WITH THE PBX SERVER.

INSTALL SERVER AND SWITCH ON THE DATA RACK.
INSTALL DEVICES C/W NETWORK CABLING AND PATCH ON THE RACK AS PER MGH STANDARD.

- d. PROVIDE TWO (2) COMMERCIAL GRADE CELLULAR BOOSTERS, WEBOOST OFFICE-200 OR EQUAL, C/W INDOOR AND OUTDOOR ANTENNAE, CABLES AND LIGHTNING SURGE PROTECTOR.
- INSTALL AS PER THE MANUFACTURERS RECOMMENDATIONS. PLUG INTO THE RACK EP PDU.
INSTALL THE OUTDOOR ANTENNA ON THE ROOF, COORDINATE EXACT LOCATION ON SITE.

- e. RETAIN THE BASE BUILDING FIRE ALARM SERVICE PROVIDER TO MAKE MODIFICATIONS OF THE EXISTING FIRE ALARM SYSTEM, C/W ALL HARDWARE, ALL DEVICES AS INDICATED ON THE DRAWINGS, ALL WIRING, FAA DIRECTORY UPDATE, PROGRAMING AND COMMISSIONING.

THE FIRE ALARM SYSTEM IS MIRCOM.

COORDINATE WITH THE FIRE ALARM SERVICE PROVIDER AND INSTALL ALL REQUIRED CONDUIT, DEVICE BOXES AND WIRING.

- 1 PROVIDE 12"Wx4"D WIREMESH CABLE TRAY CABLOFILL CB-105 OR EQUAL.
- 2 PROVIDE WATERFALLS WHERE TRAY CHANGES ELEVATION - TYP.
- 3 RUN CABLING TO UNDER DESK IN CONDUIT.
- 4 PATCH WAPS TO DIFFERENT SWITCHES.
- 5 FLEX CONDUIT C/W PULL STRING TO BASEMENT BELL ROOM.

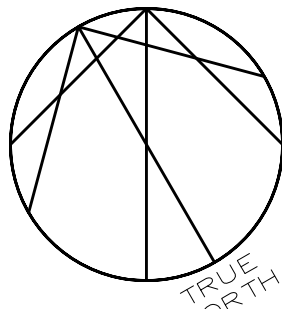
DATE	ISSUED FOR	REV
2025-10-16	Review	A
2025-10-28	Review	B
2025-11-05	Permit and tender	0

Consultants

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Landscape:

Seal(s)



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Project Manager	Drawn	SM
Project Leader	Checked	ZD

Client



Project

MGH - Outpatient
Ophthalmology Clinic

20 Wynford Dr Suite 310, North York, ON M3C 1J4

Drawing Title

SYSTEMS

Scale

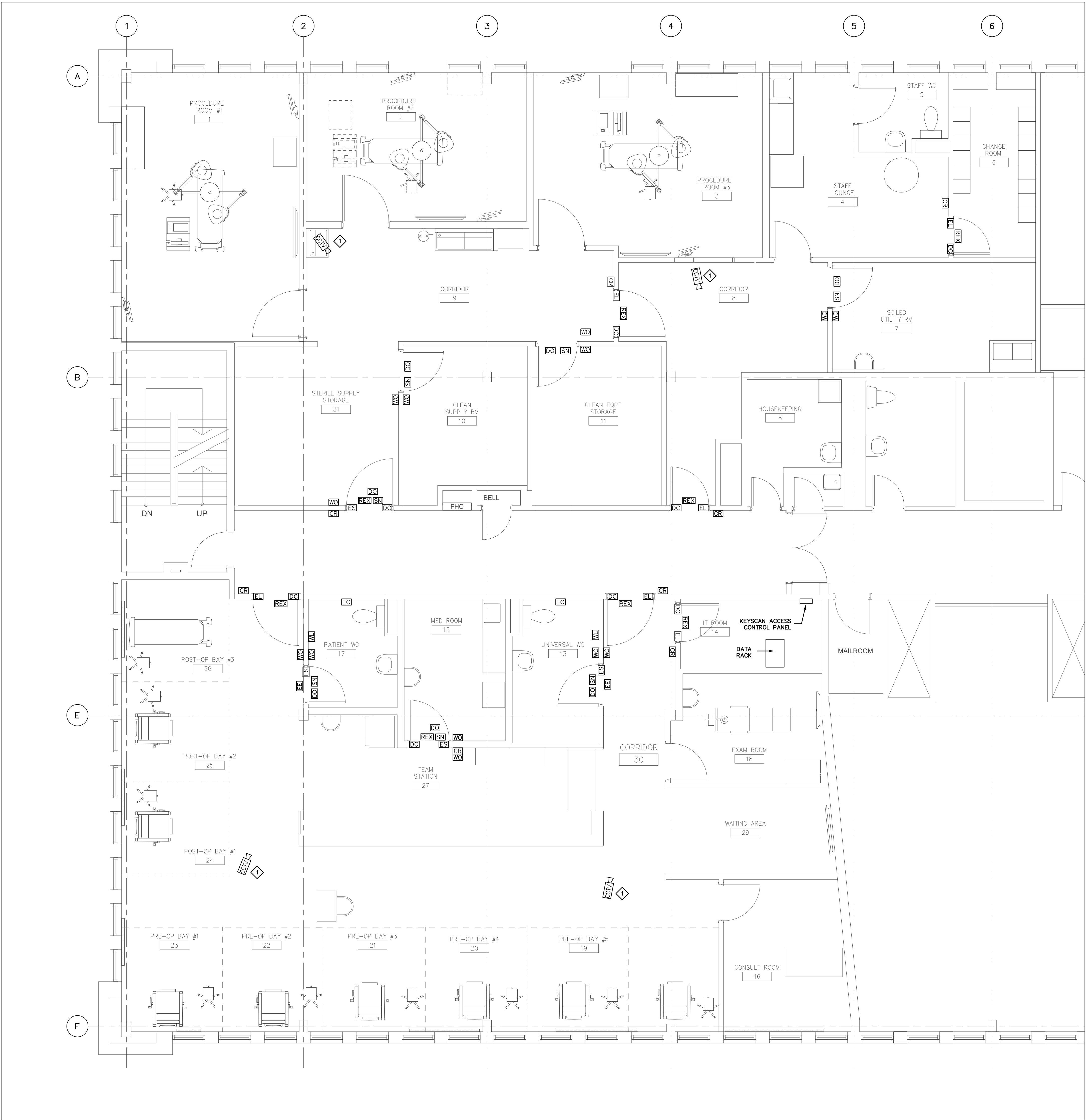
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Project No.

242519

Drawing No.

E-302



NOTES:

- a. FOR EXACT LOCATION AND ELEVATION OF DEVICES SEE ARCHITECTURAL.
- b. RETAIN A1 DESIGN&LOOK FURNISH ACCESS CONTROL SYSTEM, C/W ALL HARDWARE, ALL DEVICES AS INDICATED ON THE DRAWINGS, ALL WIRING, PROGRAMING AND COMMISSIONING.
- THE ACCESS CONTROL SYSTEM SHALL CONSIST OF:
-KEYSCAN 8-DOOR PANEL, WITH POWER SUPPLY AND BATTERY
-HID CARD READERS AND DEVICES AS PER THE DOOR HARDWARE SCHEDULE
-ALL ACCESS CONTROL DEVICES SHALL BE APPROVED BY MGH
- COORDINATE WITH THE SECURITY VENDOR AND INSTALL ALL REQUIRED CONDUIT, DEVICE BOXES AND WIRING.
- c. RETAIN CHUBB SECURITY TO PROVIDE ALL HARDWARE, ALL DEVICES AS INDICATED ON THE DRAWINGS, ALL WIRING, PROGRAMING AND COMMISSIONING.
- THE CCTV SYSTEM SHALL BE: SECURITY CAMERA-TYP.4.
- IP BASED WITH 1080P HD RESOLUTION AND AXIS DOME CAMERAS - AS APPROVED BY MGH
-POE
-PATCH AT SECURITY SWITCH IN IT ROOM.
-INTEGRATED IN THE EXISTING MGH MILESTONE SYSTEM

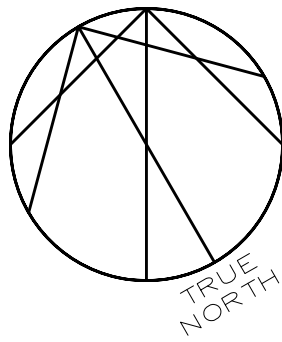
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Project
**MGH - Outpatient
Ophthalmology Clinic**

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Drawing Title

SECURITY

Scale

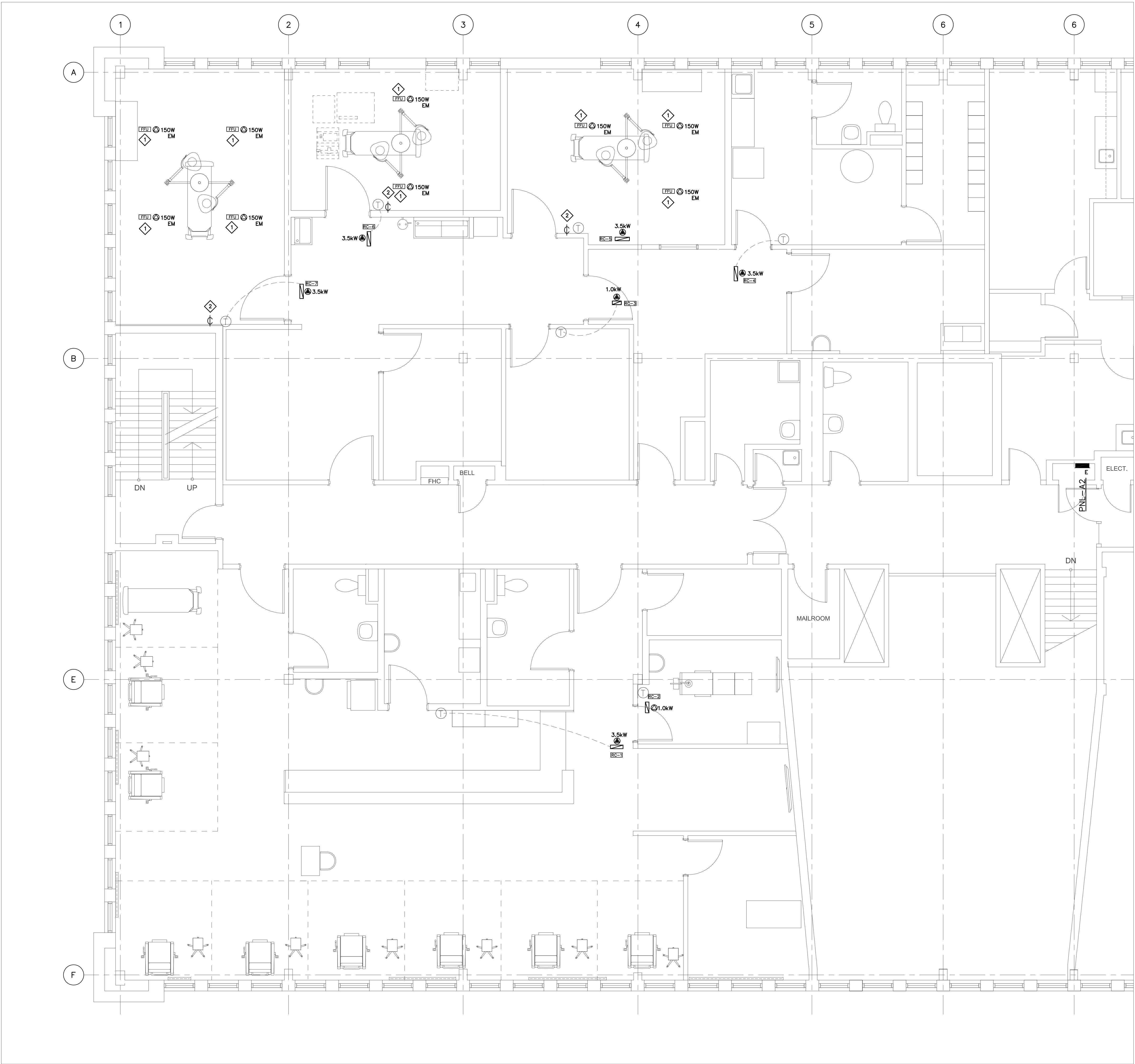
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Project No.

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Drawing No.

E-303



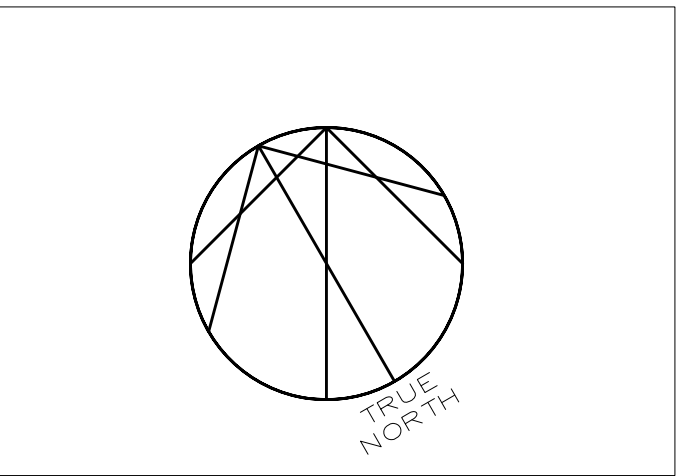
- NOTES:**
- a. HEATING COILS C/W CONTACTOR PANEL SUPPLIED AND INSTALLED BY MECHANICAL.
 - b. POWER SUPPLY FOR HEATING COILS FROM HEATER PANEL PNL-A2.
 - b. INSTALL LINE VOLTAGE THERMOSTAT, SUPPLIED BY MECHANICAL AND TERMINATE ON COIL.
- ① FAN-FILTER HEPA UNIT – TYP.
- ② 0-10V SPEED CONTROLLER – SUPPLIED BY MECHANICAL INSTALLED BY ELECTRICAL. DAISY-CHAIN CONNECTION OF ALL FFU IN THE ROOM.

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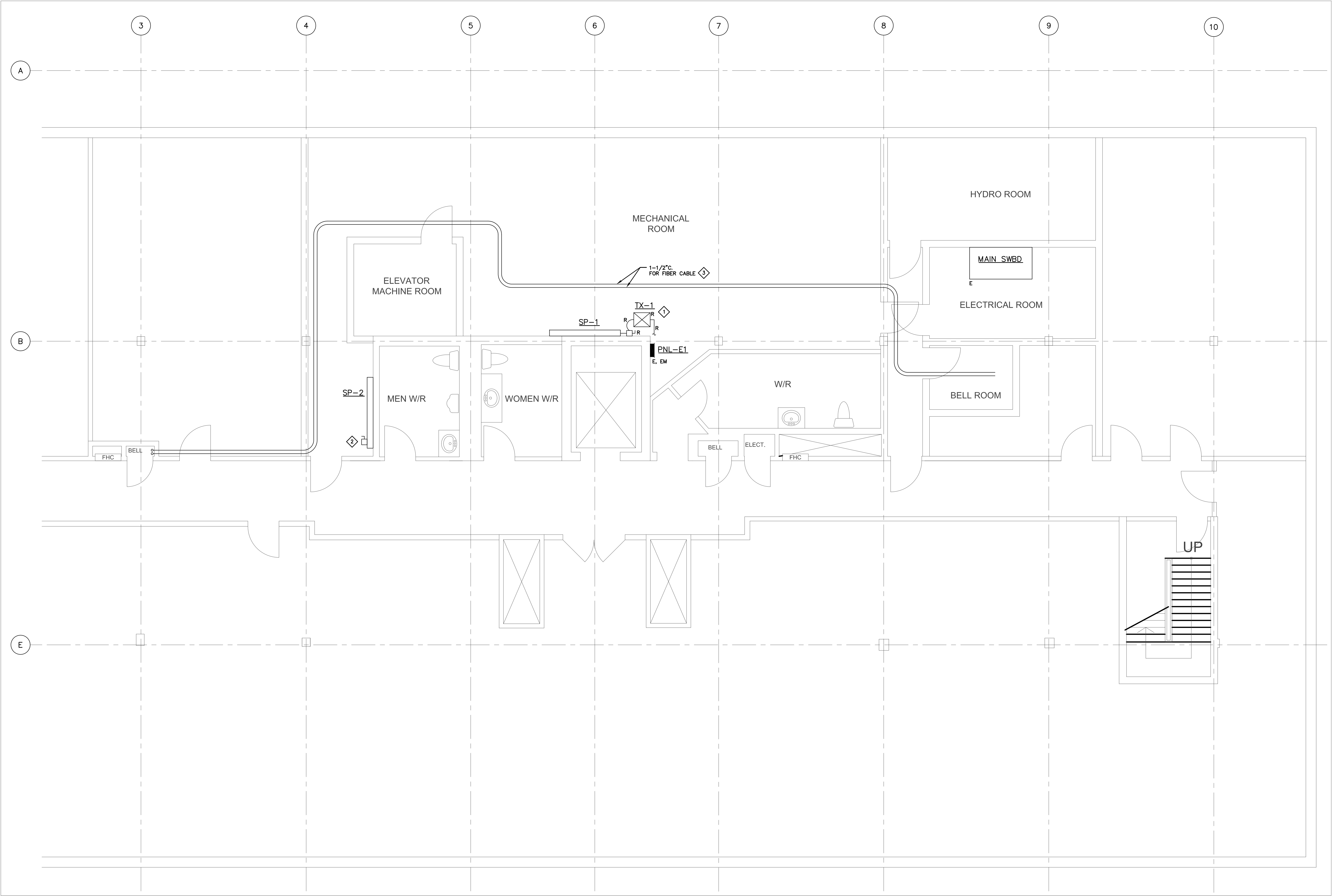
Project
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Drawing Title

MECHANICAL WIRING

Scale: 1:50

Project No. 242519

Drawing No. **E-304**



NOTES:

- 1

REMOVE TRANSFORMER C/W PRIMARY AND SECONDARY FEEDER.
- 2

DISCONNECT FOR HUMIDIFIER.
- 3

FLEX CONDUIT C/W PULL STRING TO IT ROOM.

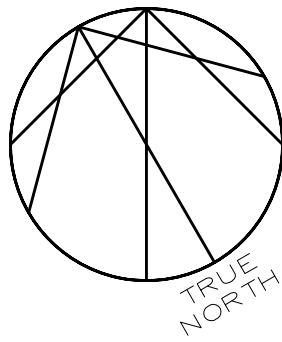
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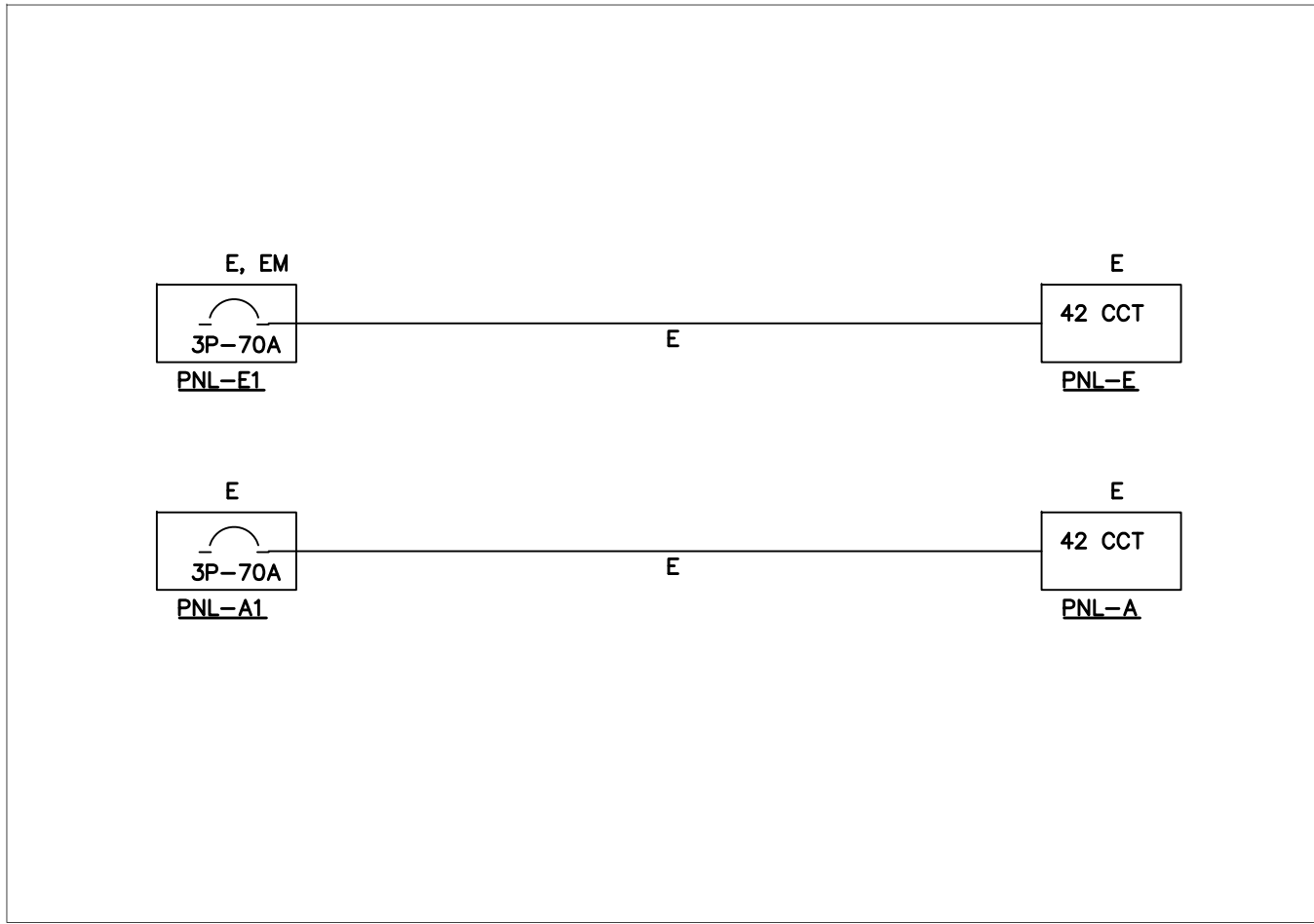
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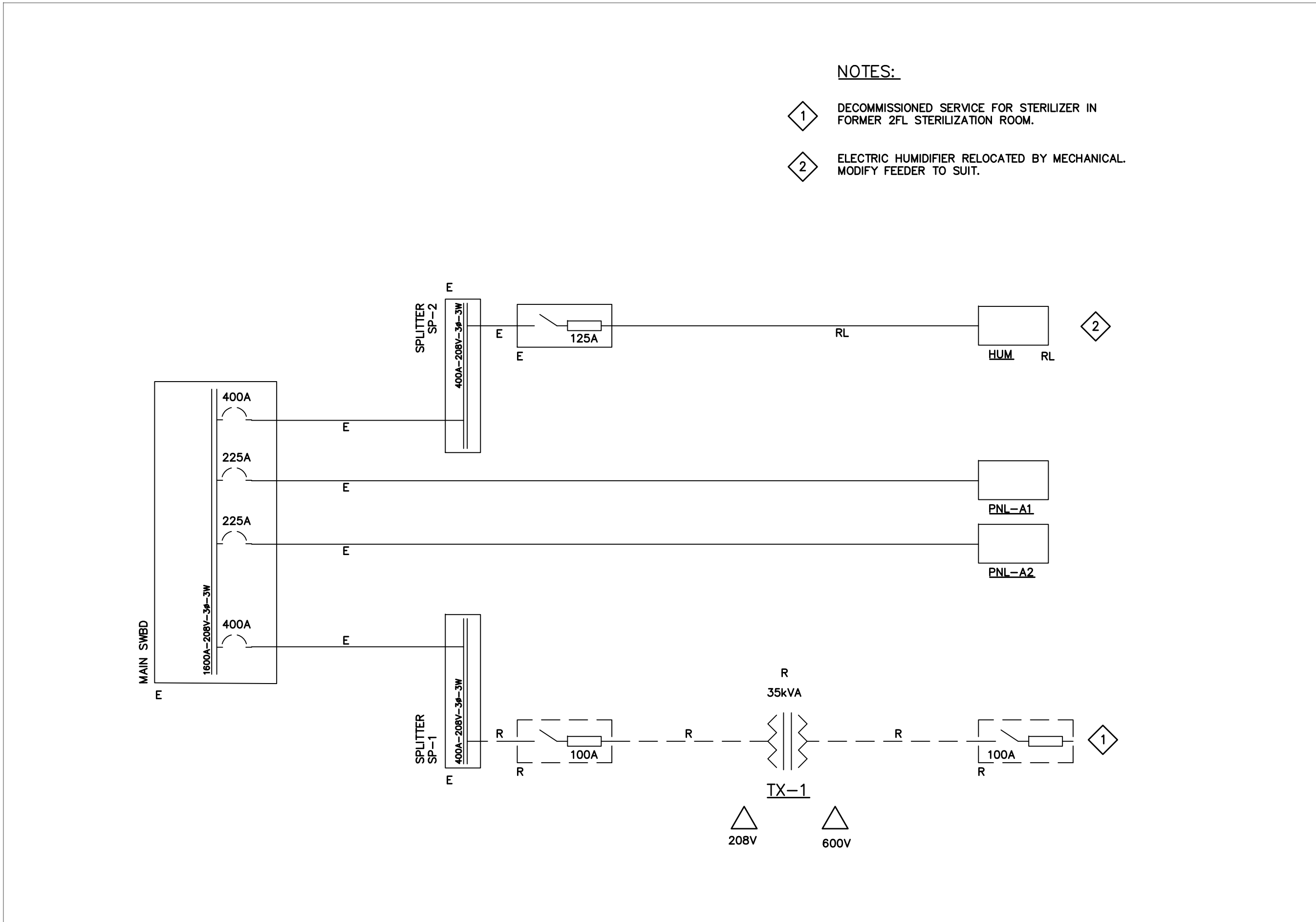
Drawing Title

POWER
-BASEMENT

Scale	1:50
Project No.	242519
Drawing No.	E-305



2 TENANT PANEL CONNECTIONS
E-700 NTS



1 NORMAL POWER – MAIN DISTRIBUTION
E-700 NTS

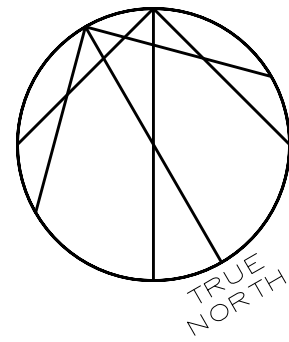
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Project
**MGH - Outpatient
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Drawing Title

**SLD
-DEMOLITION**

Scale

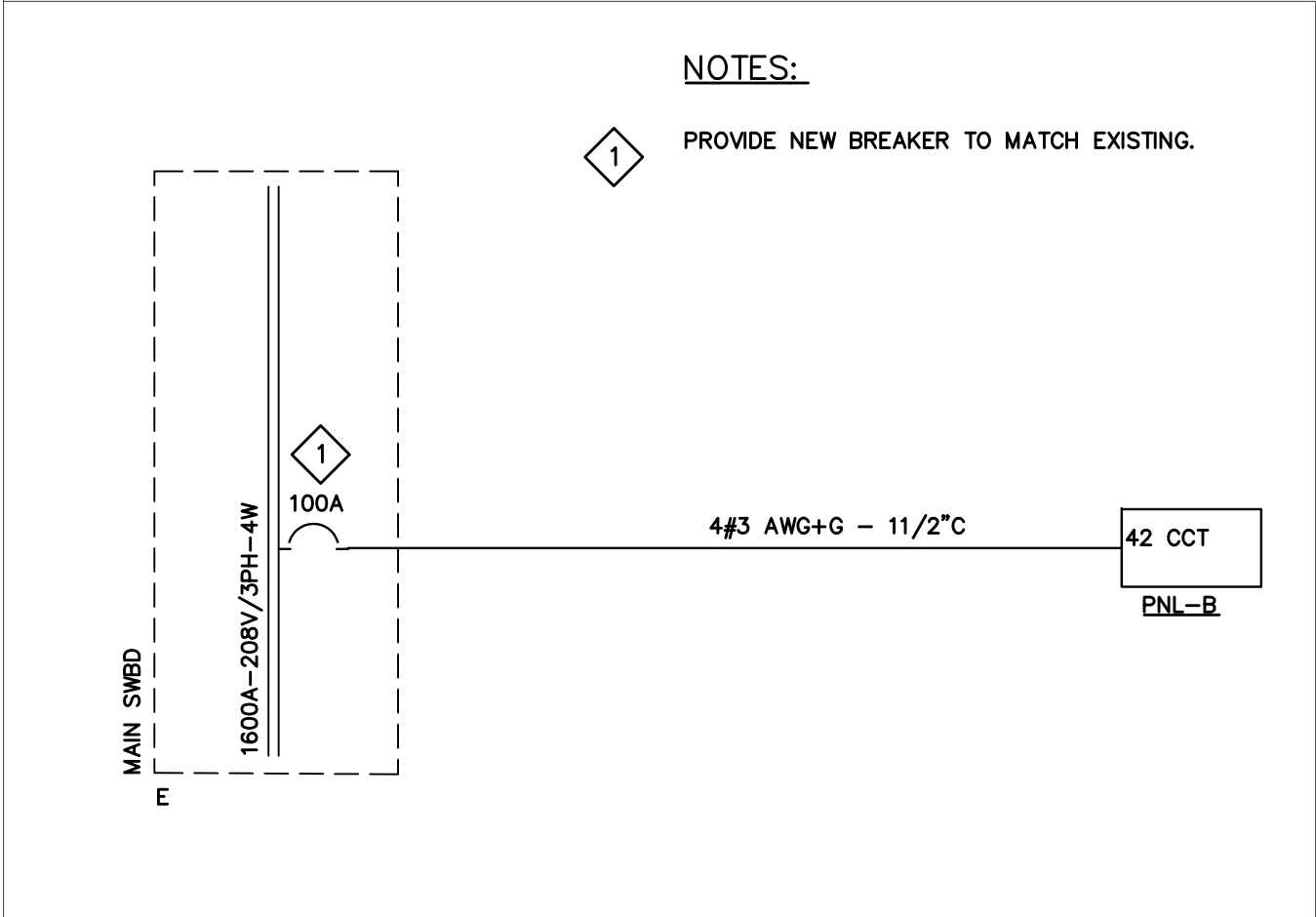
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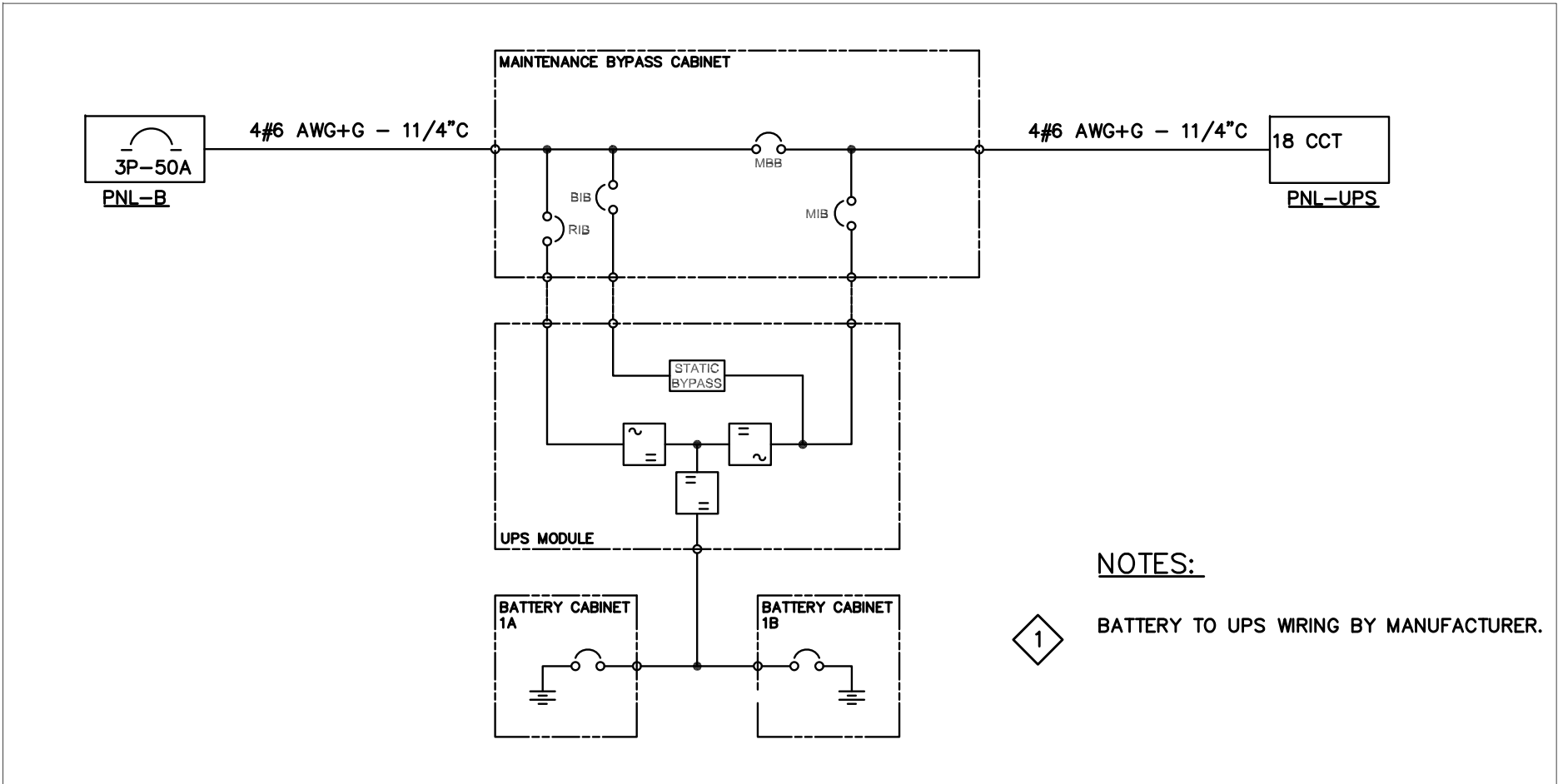
242519

Drawing No.

E-700



2 NEW TENANT PANEL
E-701 NTS



1 UPS
E-701 NTS

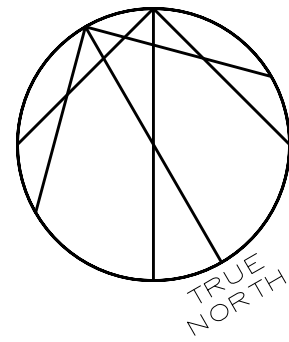
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Project
**MGH - Outpatient
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Drawing Title

SLD

Scale
1:50

Project No.
242519

Drawing No.
E-701