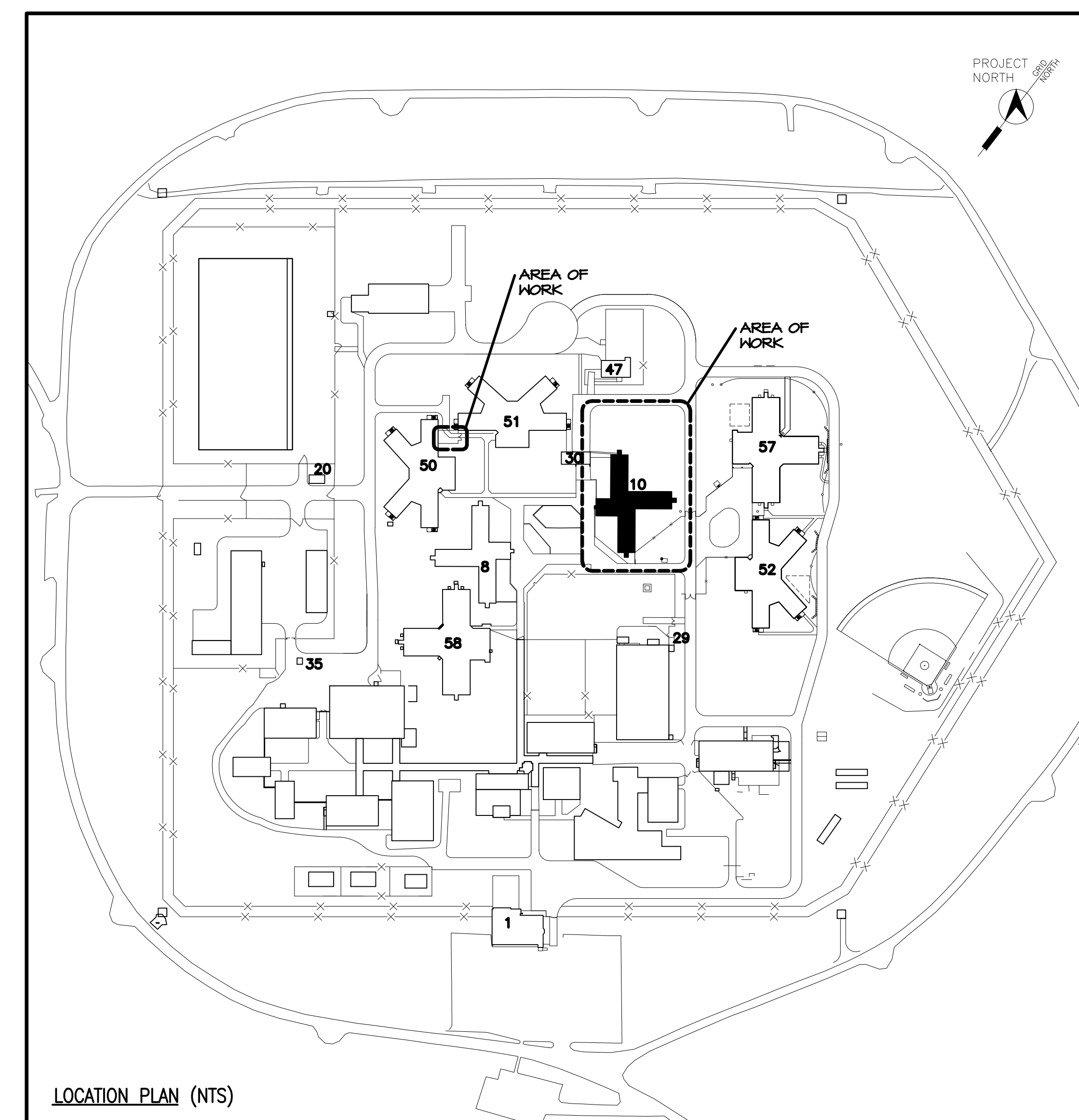


Public Works and  
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Canada

# SPRINGHILL INSTITUTION DEMOLITION BUILDING NO. 10 SPRINGHILL, NS ISSUED FOR TENDER - 2017-11-10



PROJECT NO. R.083508.001

## DRAWING LIST

### ARCHITECTURAL

A-000 COVER SHEET  
L-101 LOCATION PLAN  
L-102 SITE PLAN PRE-DEMOLITION  
L-103 SITE PLAN POST-DEMOLITION  
L-104 FENCE DETAILS  
A-101 DEMOLITION PLAN BUILDING  
NO. 10

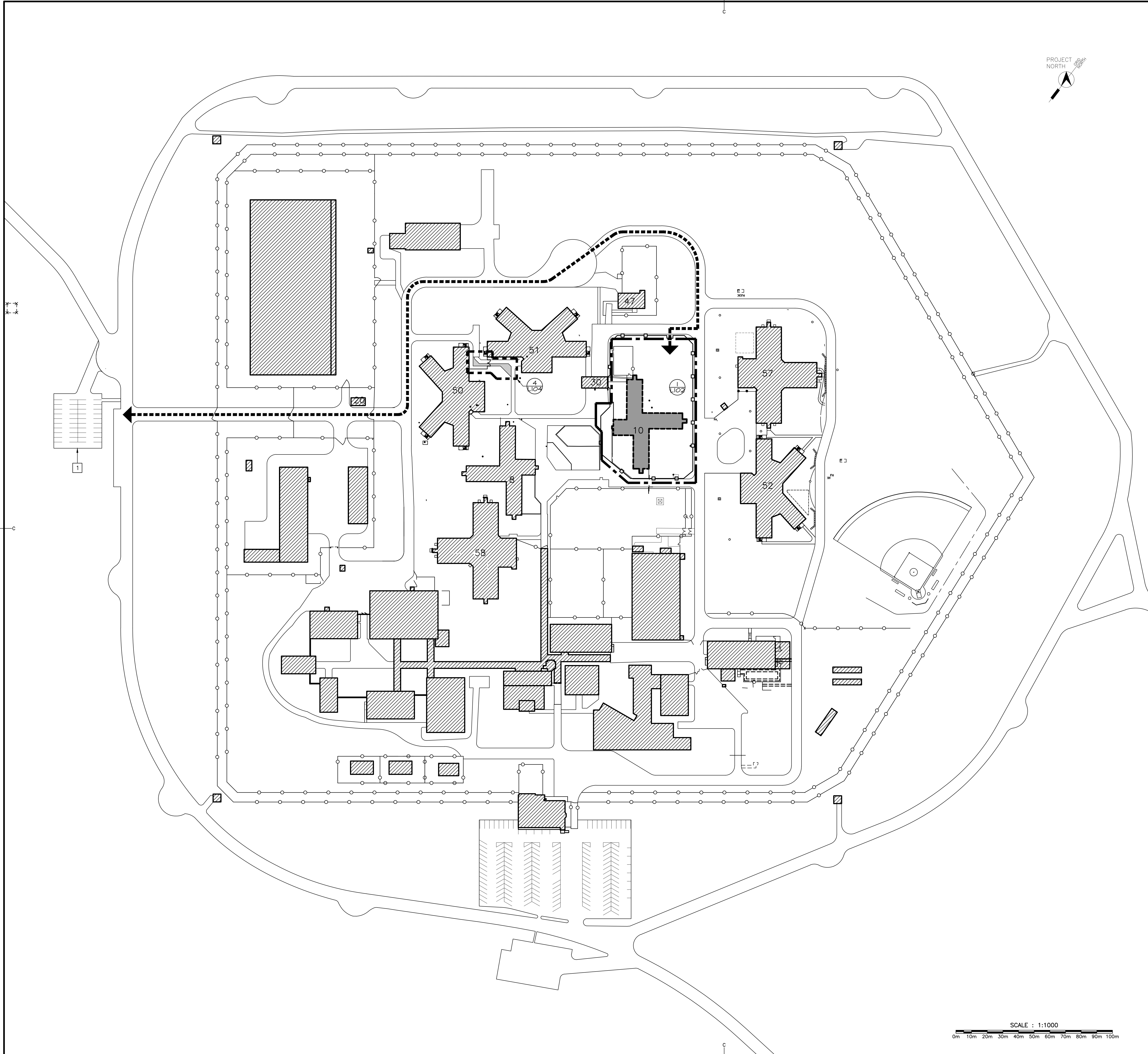
### CIVIL

C-101 CIVIL WORKS SITE PLAN, DETAILS AND  
CONSTRUCTION NOTES

### ELECTRICAL

E-100 ELECTRICAL DETAILS AND NOTES  
E-101 ELECTRICAL SITE PLAN EXISTING/DEMO  
E-102 ELECTRICAL SITE PLAN NEW CONSTRUCTION  
E-103 ELECTRICAL DETAILS AND NOTES

Canada



GENERAL NOTES

DO NOT SCALE DRAWINGS.  
ALL DIMENSIONS ARE TO BE VERIFIED ON SITE.  
BRING ALL OMISSIONS AND DISCREPANCIES, INCLUDING DIMENSIONS, TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK.  
VERIFY ALL EXISTING CONDITIONS ON SITE.

LEGEND

- 8 INMATE HOUSING UNIT
- 10 INMATE HOUSING UNIT
- 20 SERVICE ENTRANCE
- 30 INMATE CANTEEN
- 47 ST. LUKES
- 50 INMATE HOUSING UNIT
- 51 INMATE HOUSING UNIT
- 52 INMATE HOUSING UNIT
- 57 INMATE HOUSING UNIT
- 58 INMATE HOUSING UNIT

NOTE: NOT ALL EXISTING BUILDINGS ARE IDENTIFIED BY NUMBER.

- EXISTING BUILDING / COVERED WALKWAY
- DEMOLITION THIS CONTRACT
- SECURITY FENCE
- CONSTRUCTION CONTAINMENT FENCE (BY CONTRACTOR)
- LIMIT OF CONTRACT
- CONTRACTOR ENTRANCE / EXIT

NOTES

- 1 CONTRACTOR PARKING.



STANTEC Consulting  
102-40 Highland Park Drive  
Burlington, NS Canada  
Tel. 902-468-7777  
www.stantec.com

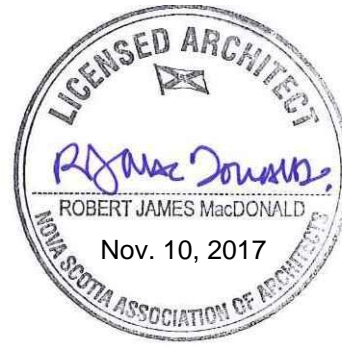
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NOTE:  
MECHANICAL / ELECTRICAL SERVICES TO ALL SYSTEMS AND ALL AREAS OF THE SITE SHALL NOT BE INTERRUPTED BY THIS WORK WITHOUT PRIOR WRITTEN APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

CAPPING, TERMINATING, RELOCATION OR INSTALLATION OF NEW MECHANICAL / ELECTRICAL SYSTEMS WHICH SERVE BUILDING 10 AND OTHER BUILDINGS VIA BUILDING 10, SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF BUILDING 10 DEMOLITION.

PROOF OF SYSTEM FUNCTIONALITY OF ALL AFFECTED SYSTEMS SHALL BE PROVIDED TO CSC PRIOR TO ANY BUILDING DEMOLITION.

COORDINATE WITH OTHER TRADES ON SITE. REFER TO ALL DOCUMENTS IN THIS PACKAGE FOR AFFECTED SYSTEMS.



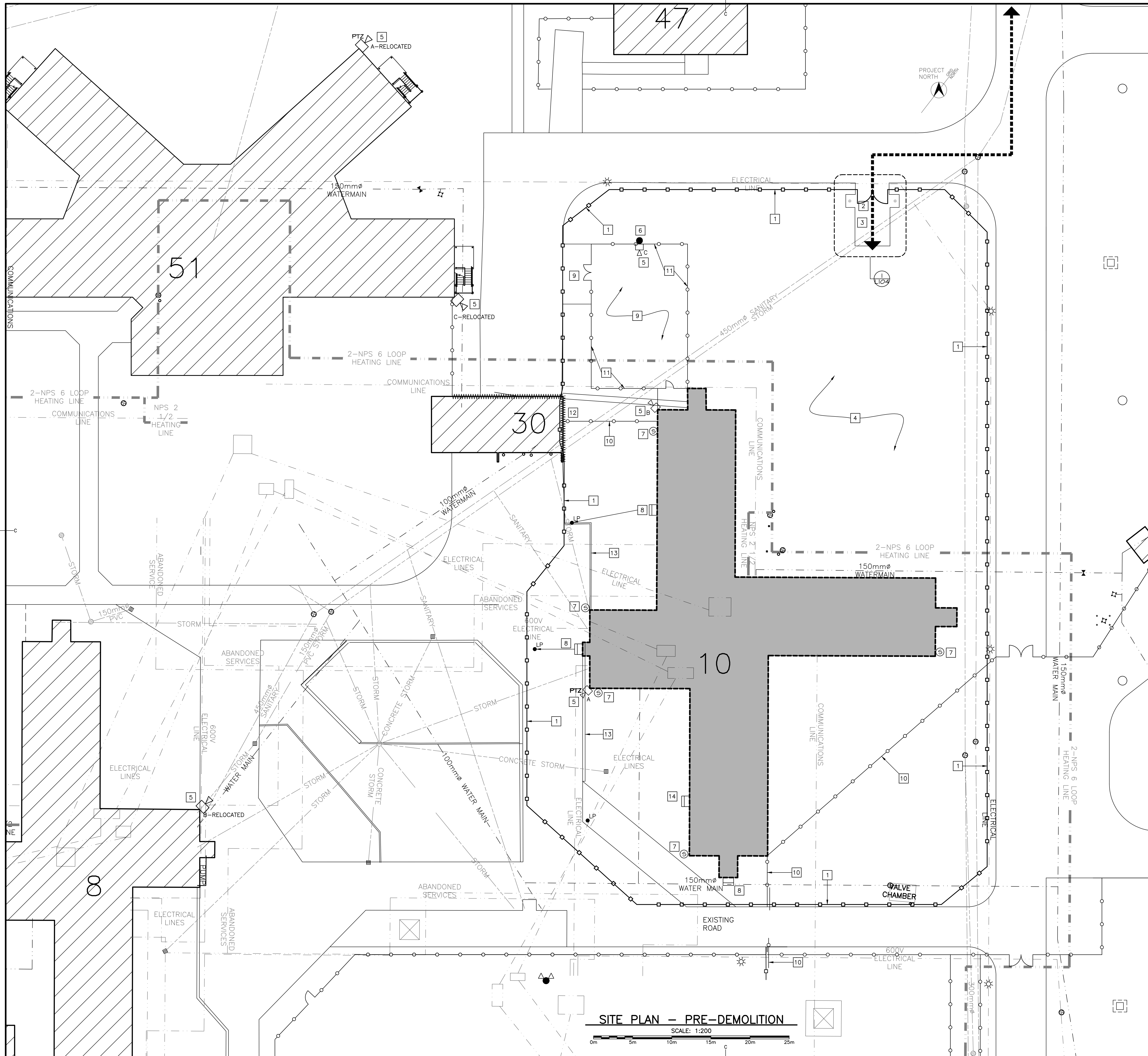
0	ISSUED FOR TENDER	11/10/2017
revisions		date

project  
**SPRINGHILL INSTITUTION  
DEMOLITION  
BUILDING NO. 10  
SPRINGHILL, NS**

drawing  
**LOCATION PLAN**

designed RJM	conçu
date JANUARY 2017	
drawn HGA	dessiné
date JANUARY 2017	
approved	approuvé
date	
Tender	Soumission
PWOSC Project Manager	Administrateur de projets TPSCC
project number	no. du projet
<b>R.083508.001</b>	
drawing no.	no. du dessin
<b>L-101</b>	





SITE PLAN - PRE-DEMOLITION

SCALE: 1:200



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VERIFY ALL EXISTING CONDITIONS ON SITE.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL REMOVALS.

## LEGEND

- 8 INMATE HOUSING UNIT
- 10 INMATE HOUSING UNIT
- 30 INMATE CANTEN
- 47 ST. LUKES
- 51 INMATE HOUSING UNIT

NOTE: NOT ALL EXISTING BUILDINGS ARE IDENTIFIED BY NUMBER.

- EXISTING BUILDING / COVERED WALKWAY
- DEMOLITION THIS CONTRACT
- SECURITY FENCE
- CONSTRUCTION CONTAINMENT FENCE
- EXISTING CONCERTINA ALONG ROOF OF BUILDING
- CONTRACTOR ENTRANCE / EXIT
- CAMERA
- CAMERA (POINT/TILT/ZOOM)
- LIGHT
- SPEAKER
- NEW LIGHT POLE, 1m FROM FENCE

NOTE: UNDERGROUND SERVICES SHOWN FOR REFERENCE ONLY. REFER TO CIVIL AND ELECTRICAL DRAWINGS FOR REMOVALS, ETC.

## NOTES

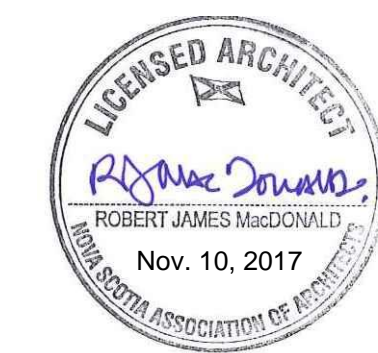
- NEW CONSTRUCTION FENCE, SEE DETAIL 2 SHEET L104.
- NEW CONSTRUCTION ENTRANCE GATE, LOCKABLE, SEE DETAIL 1 SHEET L104.
- CONTRACTOR TO REVISE GRADE TO SUIT ACCESS.
- CONTRACTOR LAY DOWN AREA.
- REMOVE / RELOCATE EXISTING CAMERAS. CAMERA A (C026) TO BE RELOCATED TO BUILDING 51. CAMERA B (C088) TO BE RELOCATED TO BUILDING 8. CAMERA C (C089) TO BE RELOCATED TO BUILDING 51.
- EXISTING POLE TO BE REMOVED.
- EXISTING SPEAKER TO BE REMOVED / DISPOSED OF.
- EXISTING LIGHT TO BE REMOVED / RELOCATED TO NEW LIGHT POLES WHERE INDICATED.
- EXISTING HARD SURFACE TO BE REMOVED.
- REMOVE EXISTING SECURITY FENCING / CONCRETE SECURITY WALL.
- REMOVE FENCES / GATE AND ALL ASSOCIATED ACCESSORIES. TO BE TURNED OVER TO THE INSTITUTION.
- INSTALL CONCERTINA FENCING AT ROOF OF BUILDING 30. SEE DETAIL ON SHEET L104.
- REMOVE EXISTING CURB.
- REMOVE EXISTING LIGHT AND DISPOSE.

NOTE: MECHANICAL / ELECTRICAL SERVICES TO ALL SYSTEMS AND ALL AREAS OF THE SITE SHALL NOT BE INTERRUPTED BY THIS WORK WITHOUT PRIOR WRITTEN APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

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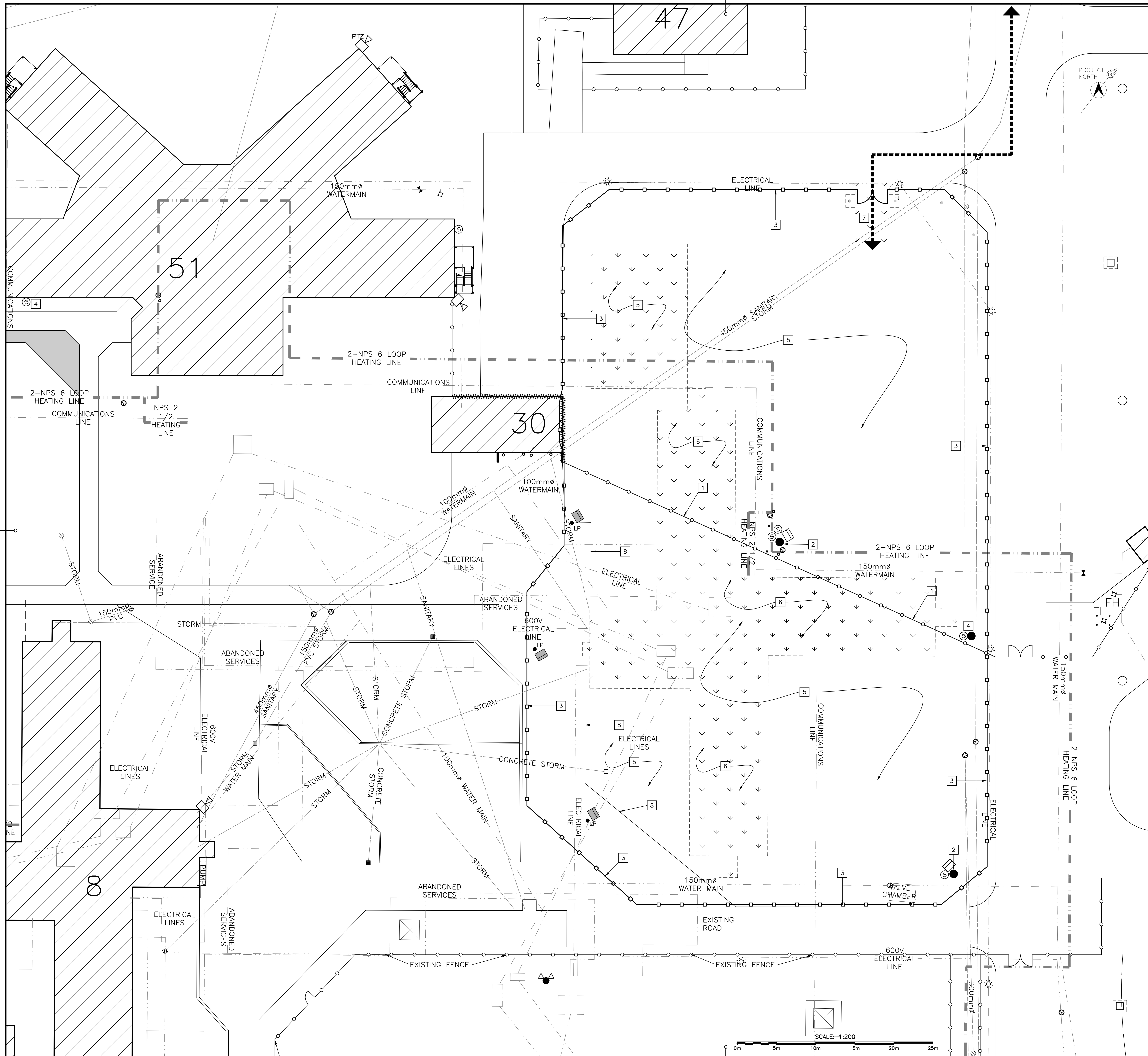
PROOF OF SYSTEM FUNCTIONALITY OF ALL AFFECTED SYSTEMS SHALL BE PROVIDED TO CSC PRIOR TO ANY BUILDING DEMOLITION.

COORDINATE WITH OTHER TRADES ON SITE. REFER TO ALL DOCUMENTS IN THIS PACKAGE FOR AFFECTED SYSTEMS.



0	ISSUED FOR TENDER	11/10/2017
revisions		date
project	project	
SPRINGHILL INSTITUTION DEMOLITION BUILDING NO. 10 SPRINGHILL, NS		
drawing	dessin	
SITE PLAN PRE-DEMOLITION		
designed RJM	conçu	
date JANUARY 2017		
drawn HGA	dessiné	
date JANUARY 2017		
approved	approuvé	
date		
Tender	Soumission	
PWSC Project Manager	Administrateur de projets TPSC	
project number	no. du projet	
R.083508.001		
drawing no.	no. du dessin	





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## LEGEND

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- 10 INMATE HOUSING UNIT
- 30 INMATE CANTEEN
- 47 ST. LUKES
- 51 INMATE HOUSING UNIT

NOTE: NOT ALL EXISTING BUILDINGS ARE IDENTIFIED BY NUMBER.

- EXISTING BUILDING / COVERED WALKWAY
- SECURITY FENCE
- CONSTRUCTION FENCE TO BE REMOVED
- CONTRACTOR ENTRANCE / EXIT
- CAMERA
- CAMERA (POINT/TILT/ZOOM)
- NEW POLE, SEE ALSO ELECTRICAL
- LIGHT
- EXISTING LIGHT (RELOCATED)
- SPEAKER
- NEW GRASS

NOTE: UNDERGROUND SERVICES SHOWN FOR REFERENCE ONLY. REFER TO CIVIL AND ELECTRICAL DRAWINGS FOR REMOVALS, ETC.

## NOTES

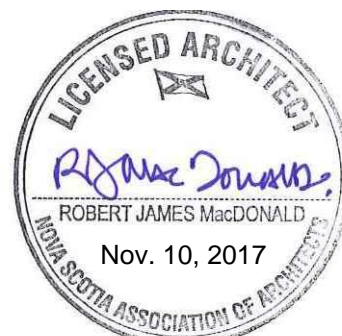
- NEW SECURITY FENCING, SEE DETAIL 2 SHEET L104.
- INSTALL NEW POLES (3) AT LOCATIONS INDICATED C/W LIGHTS / NEW SPEAKERS AS SPECIFIED PRIOR TO REMOVING CONSTRUCTION FENCE.
- REMOVE CONSTRUCTION FENCE C/W GATES POLES, SONOTUBES AND OTHER FOUNDATIONS FOLLOWING ERECTION AND ACCEPTANCE OF NEW SECURITY FENCE (NOTE #1).
- SUPPLY AND INSTALL NEW SPEAKERS (1), LOCATION AS INDICATED.
- REINSTATE SITE GRADING, TOPSOIL, HYDROSEED.
- AREA OF BUILDING / FOUNDATION / BASEMENT / REMOVED SERVICES, ETC., TO BE BACKFILLED, COMPACTED, NEW TOPSOIL AND HYDROSEED.
- REMOVE ASPHALT / BOLLARDS. REINSTATE TOPSOIL AND HYDROSEED.
- EDGE OF EXISTING ASPHALT.

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COORDINATE WITH OTHER TRADES ON SITE. REFER TO ALL DOCUMENTS IN THIS PACKAGE FOR AFFECTED SYSTEMS.



0 ISSUED FOR TENDER 11/10 2017

revisions date

project project

**SPRINGHILL INSTITUTION  
DEMOLITION  
BUILDING NO. 10  
SPRINGHILL, NS**

drawing design

**SITE PLAN  
POST-DEMOLITION**

designed RJM conçu

date JANUARY 2017

drawn HGA dessiné

date JANUARY 2017

approved approuvé

date

Tender Soumission

PWSC Project Manager Administrateur de projets TPSC

project number no. du projet

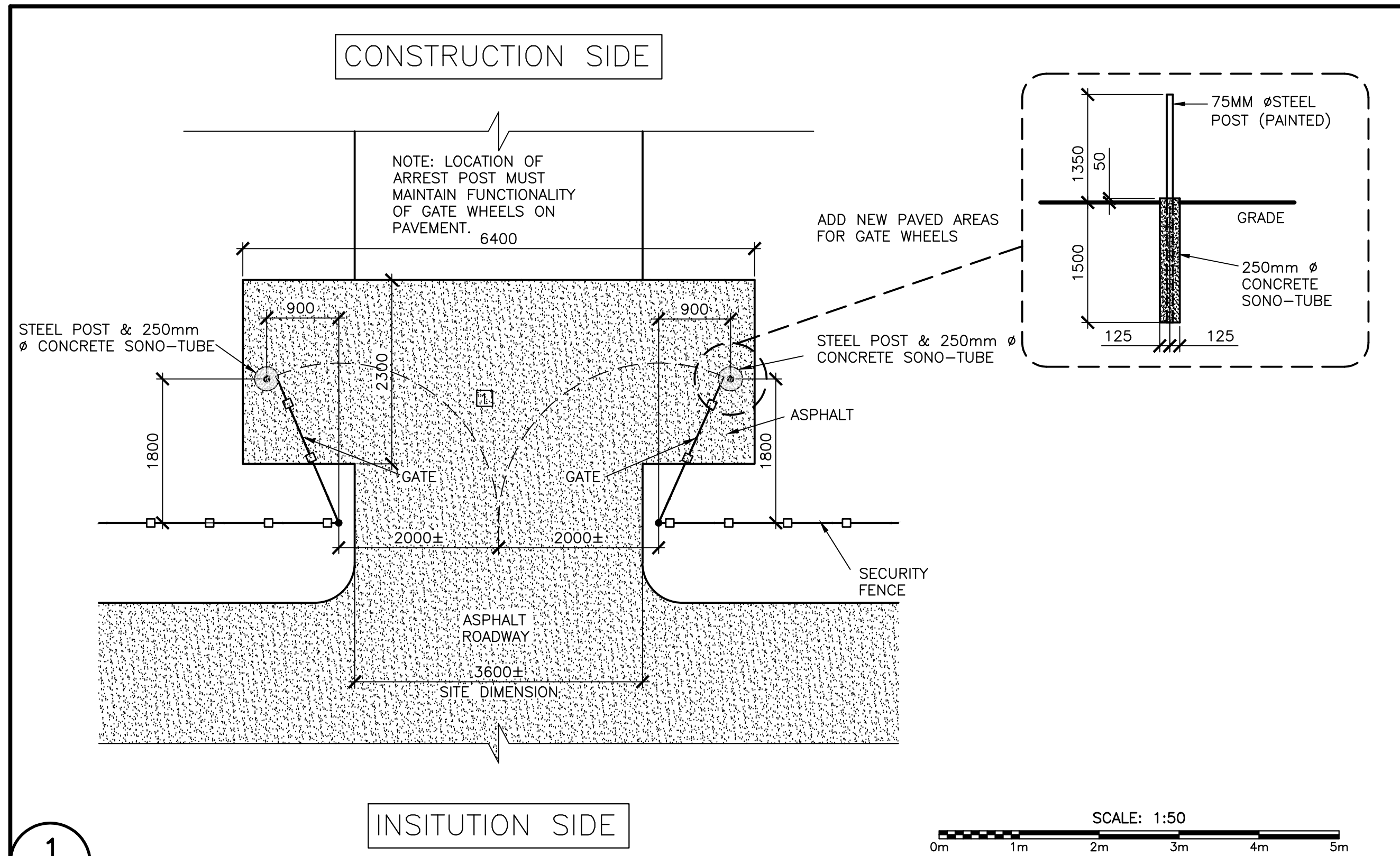
**R.083508.001**

drawing no. no. du dessin

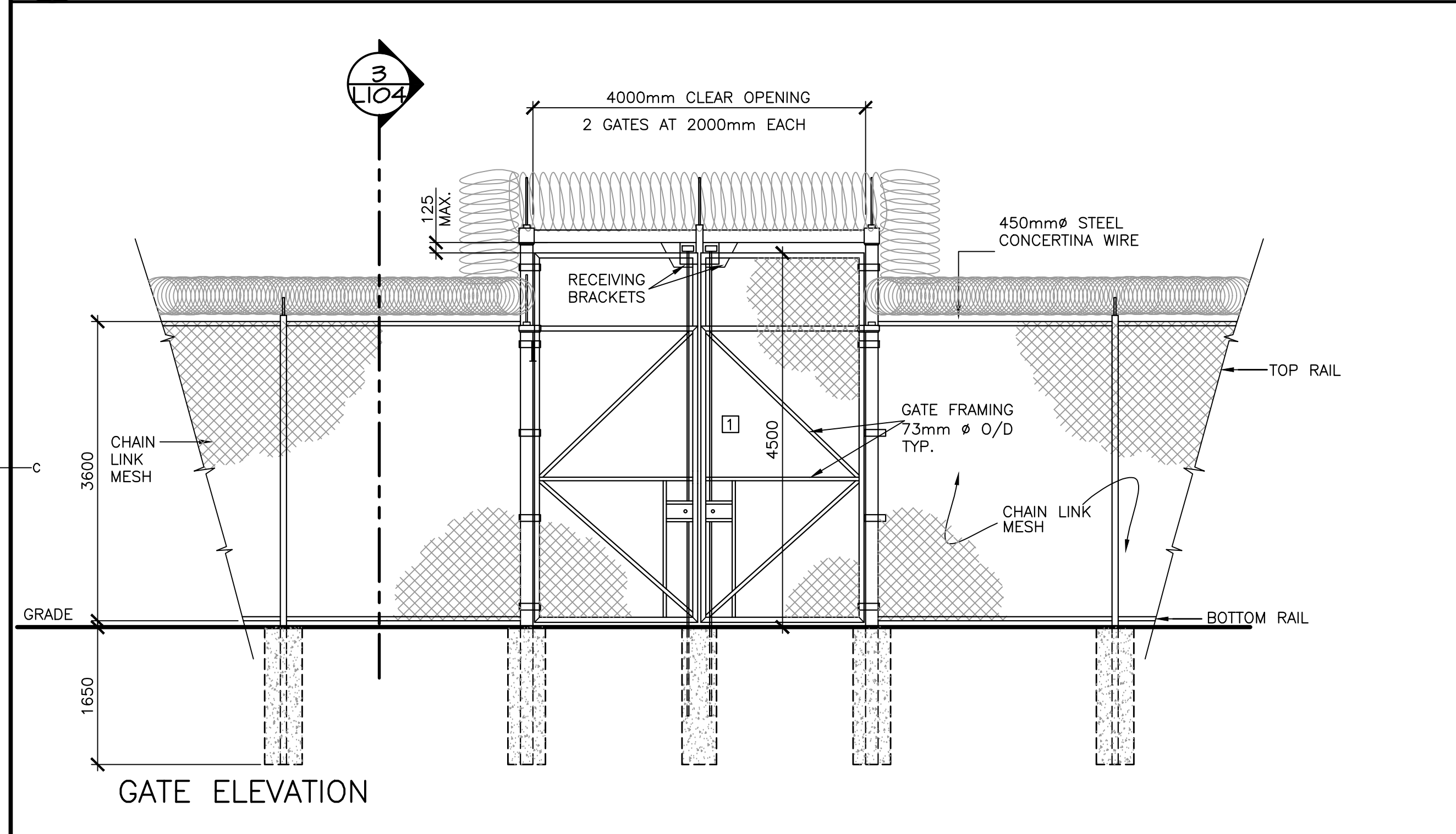
**L-103**

E-DRM/GDD-E: 550191

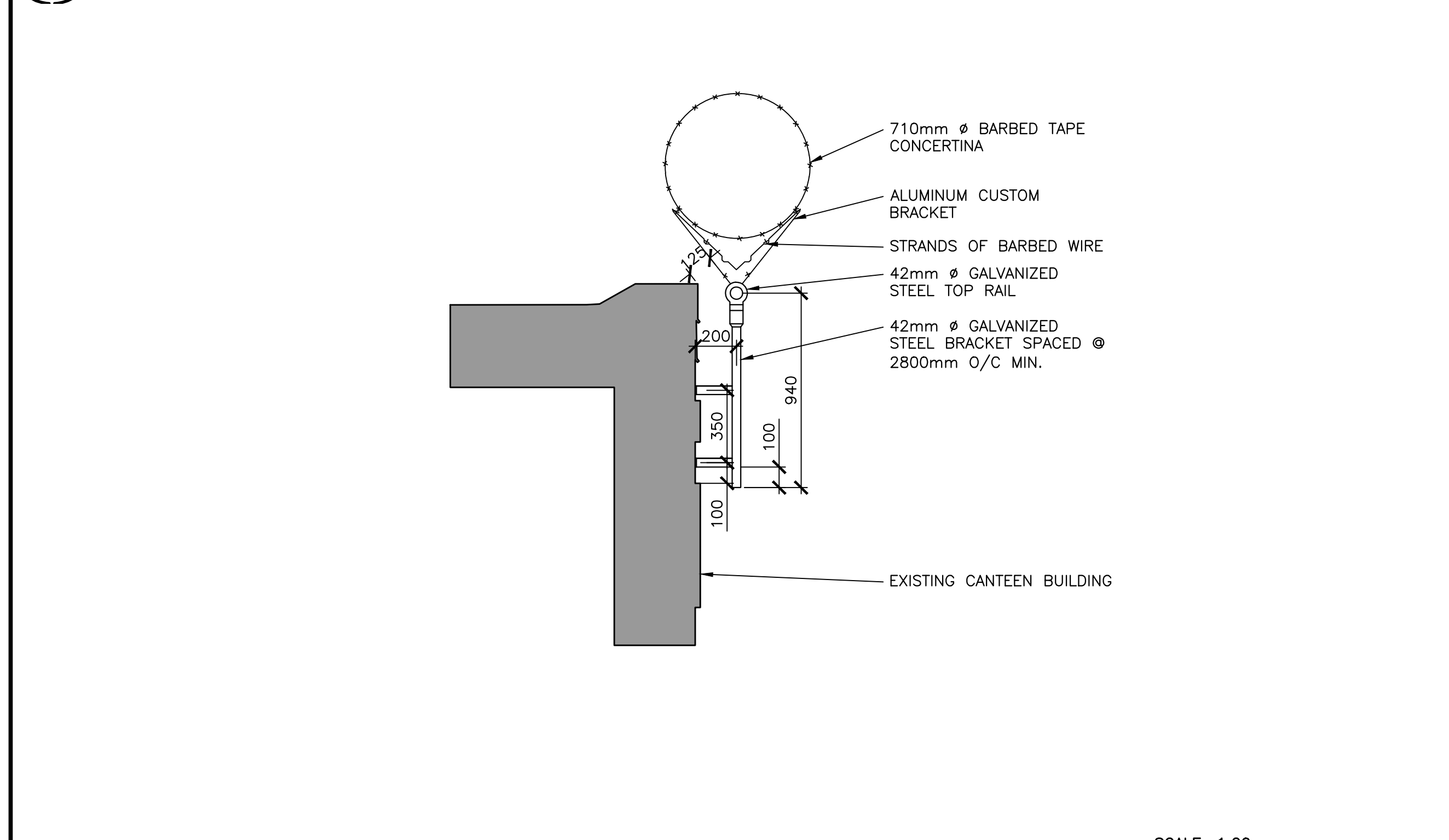




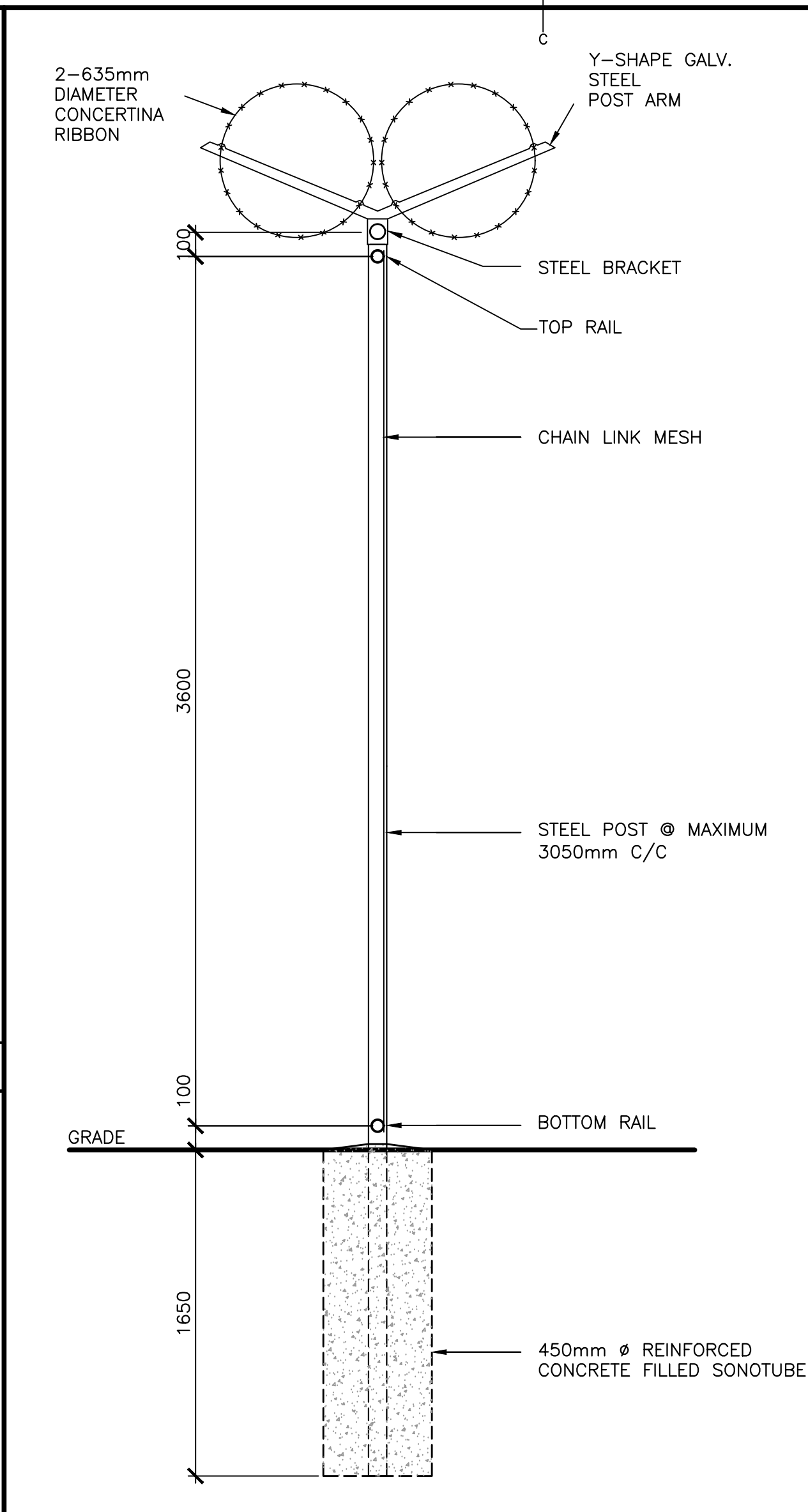
**1 L104 SWINGING VEHICLE ACCESS GATE**



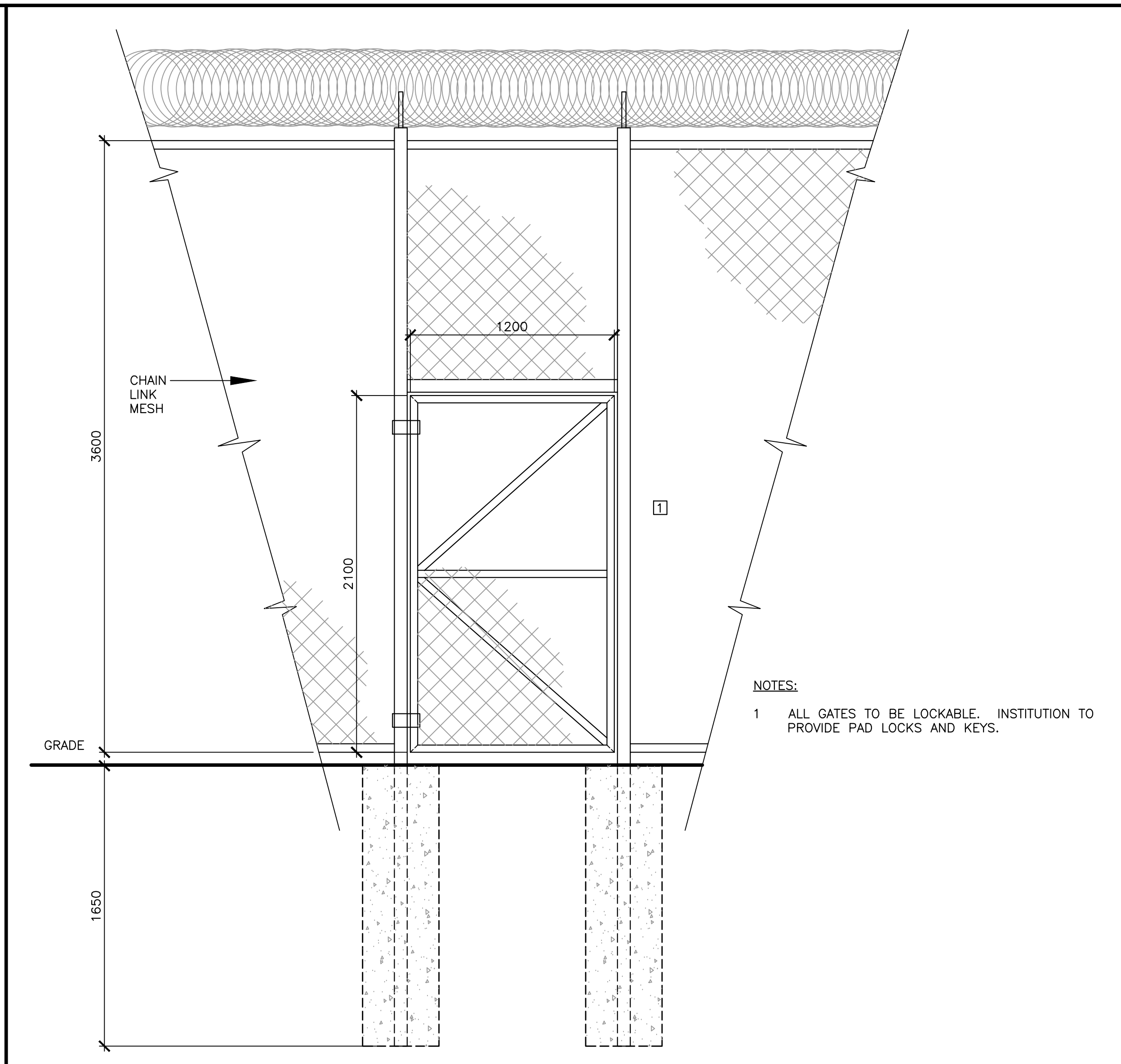
**2 L104 SWINGING VEHICLE ACCESS GATE**



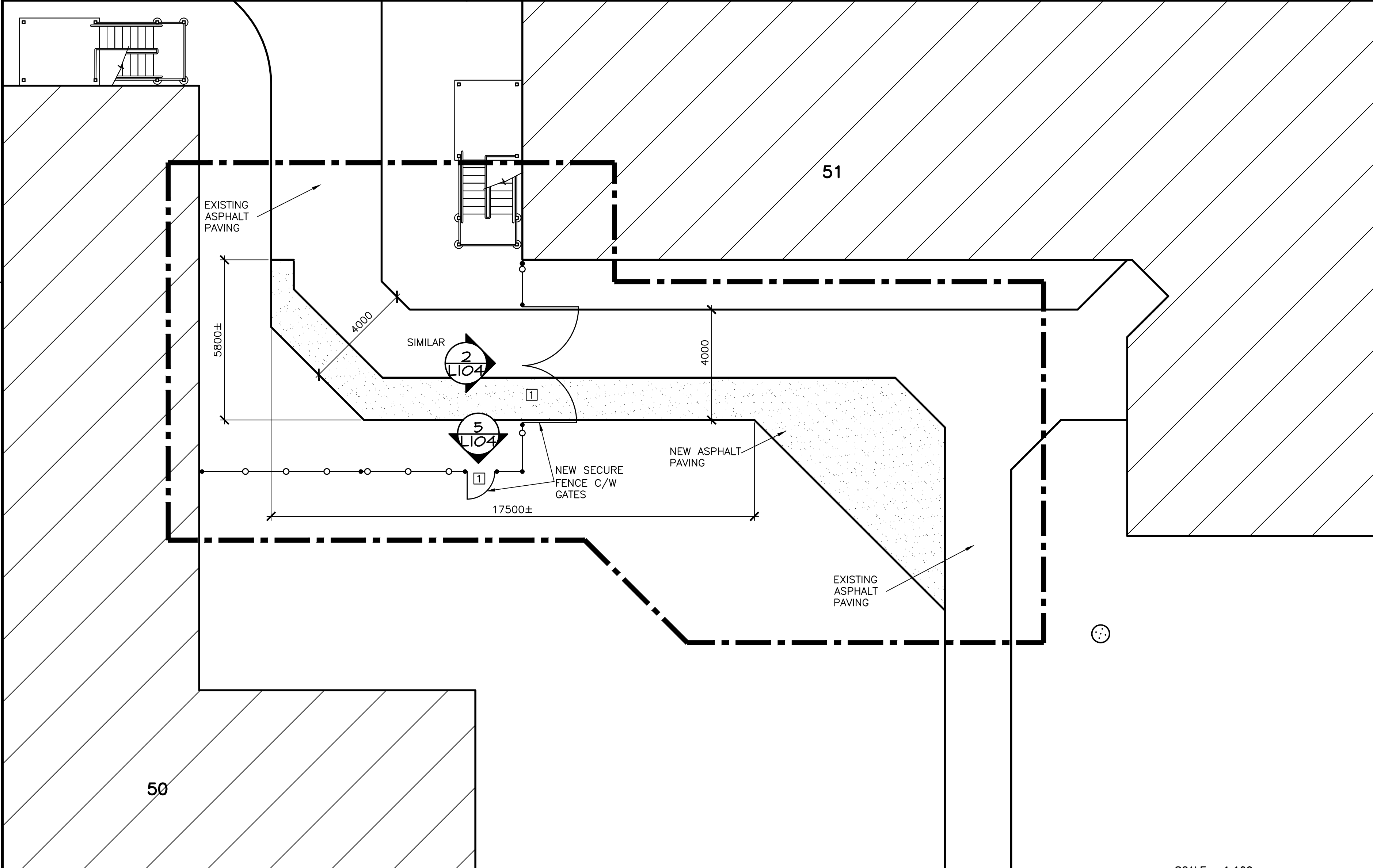
**6 L104 ROOF BARRIER CROSS SECTION**



**3 L104 HIGH FENCE POST DETAIL**



**5 L104 MAN GATE ELEVATION**



**4 L104 REVISED ROADWAY**

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COORDINATE WITH OTHER TRADES ON SITE. REFER TO ALL DOCUMENTS IN THIS PACKAGE FOR AFFECTED SYSTEMS.

0	ISSUED FOR TENDER	11/10/2017
revisions		date
project	project	
<b>SPRINGHILL INSTITUTION DEMOLITION BUILDING NO. 10 SPRINGHILL, NS</b>		
drawing	design	
<b>FENCE DETAILS</b>		
designed	RJM	conçu
date	JANUARY 2017	
drawn	HGA	dessiné
date	JANUARY 2017	
approved		approuvé
date		
Tender	Soumission	
PWOSC Project Manager	Administrateur de projets TPSC	
project number	no. du projet	
<b>R.083508.001</b>		
drawing no.	no. du dessin	
<b>L-104</b>		

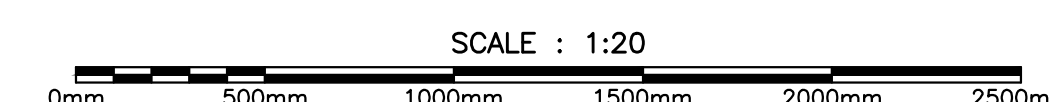
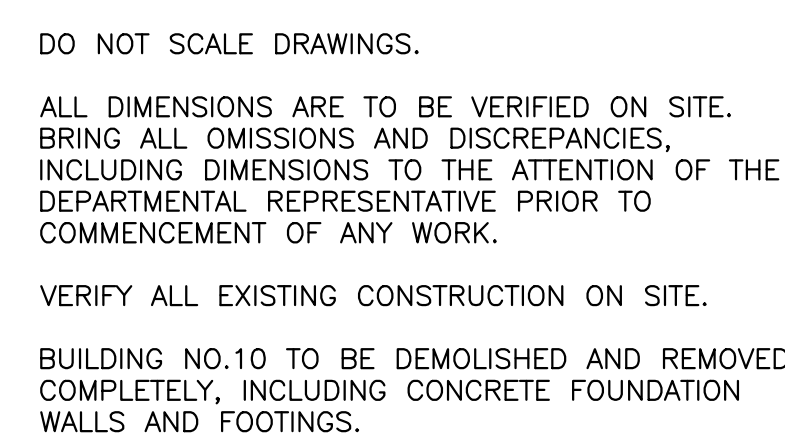
E-DRM/GDD-E: 550191





## SECOND FLOOR PLAN

SCALE: 1:200

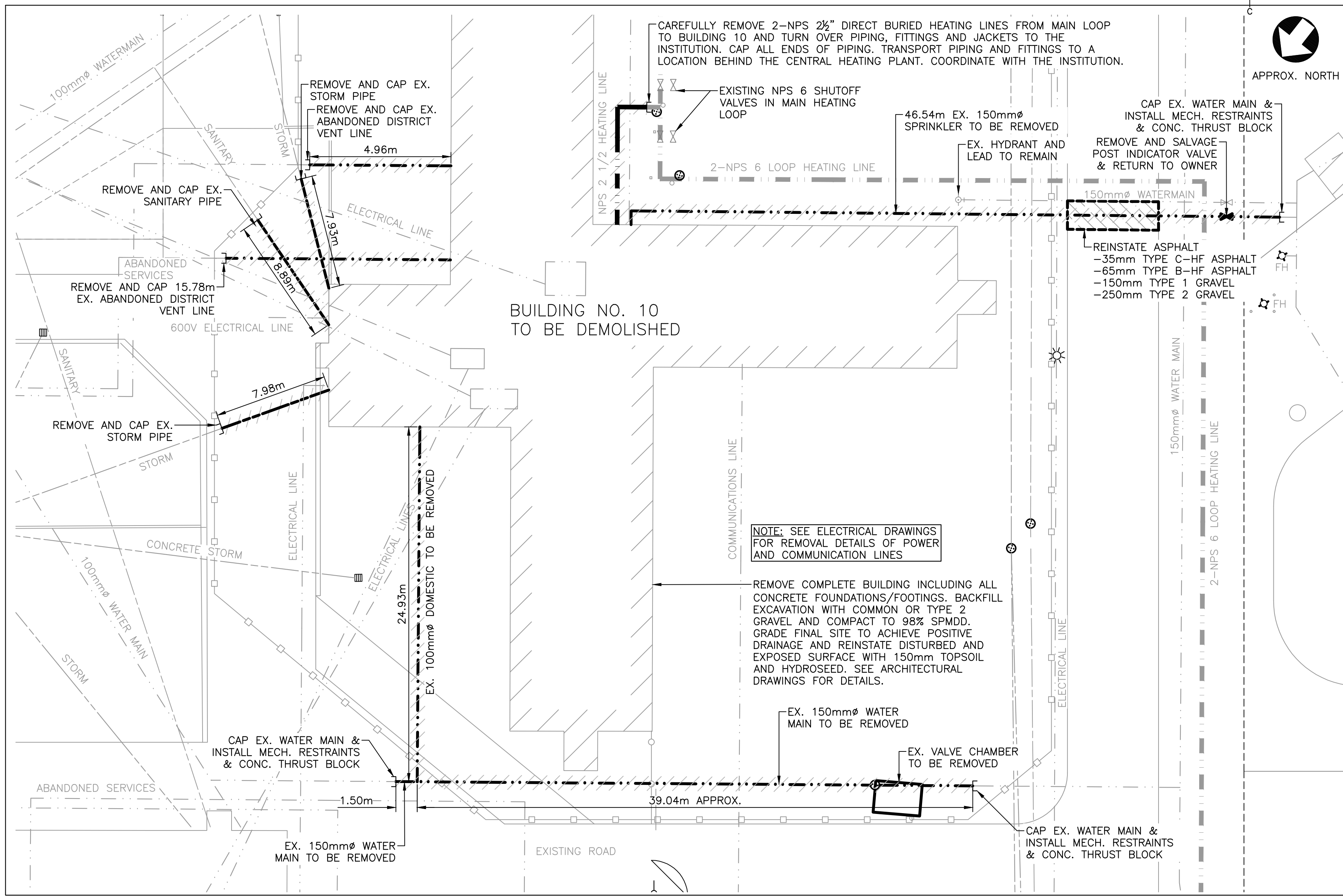
A horizontal scale bar with alternating black and white segments. It is marked with '0m', '5m', '10m', '15m', '20m', and '25m' at regular intervals.

TYPICAL DEMOLITION WALL SECTION – BUILDING No.10

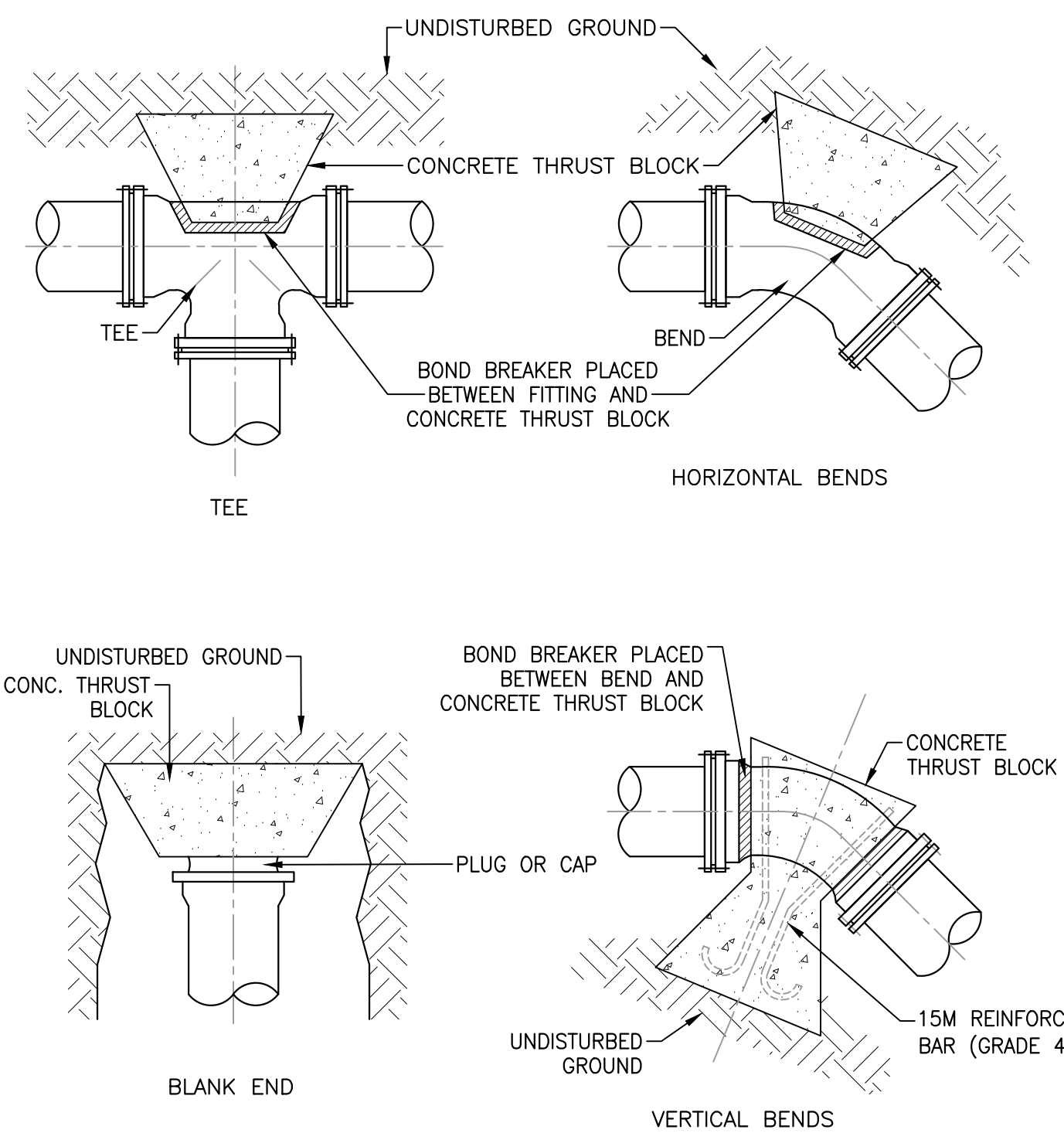
drawing no.	no. du de
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A-101





**1**  
**C101**  
**BUILDING NO. 10 DEMOLITION SITE PLAN**  
SCALE: 1:200



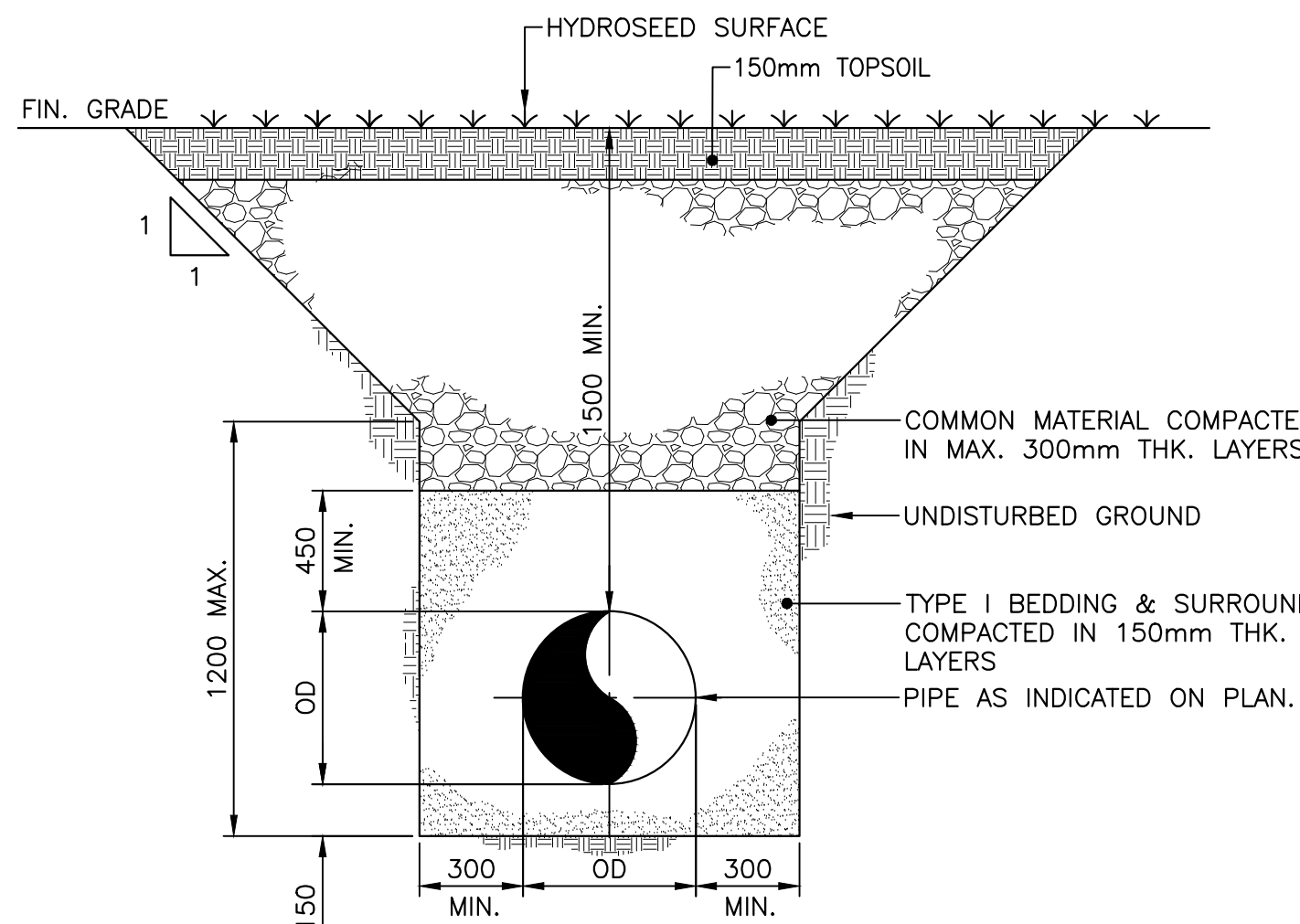
**4**  
**C101**  
**THRUST BLOCK DETAILS**  
SCALE: N.T.S.

MINIMUM CONTACT AREAS FOR CONCRETE THRUST BLOCKS						
X	AREA, M <sup>2</sup> FOR SOIL SUPPORTING CAPACITY OF 100 kPa	TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND
mm						
100	0.25	0.25	0.32	0.20	0.16	0.16
150	0.48	0.48	0.64	0.40	0.24	0.16
200	0.80	0.80	1.12	0.64	0.32	0.16

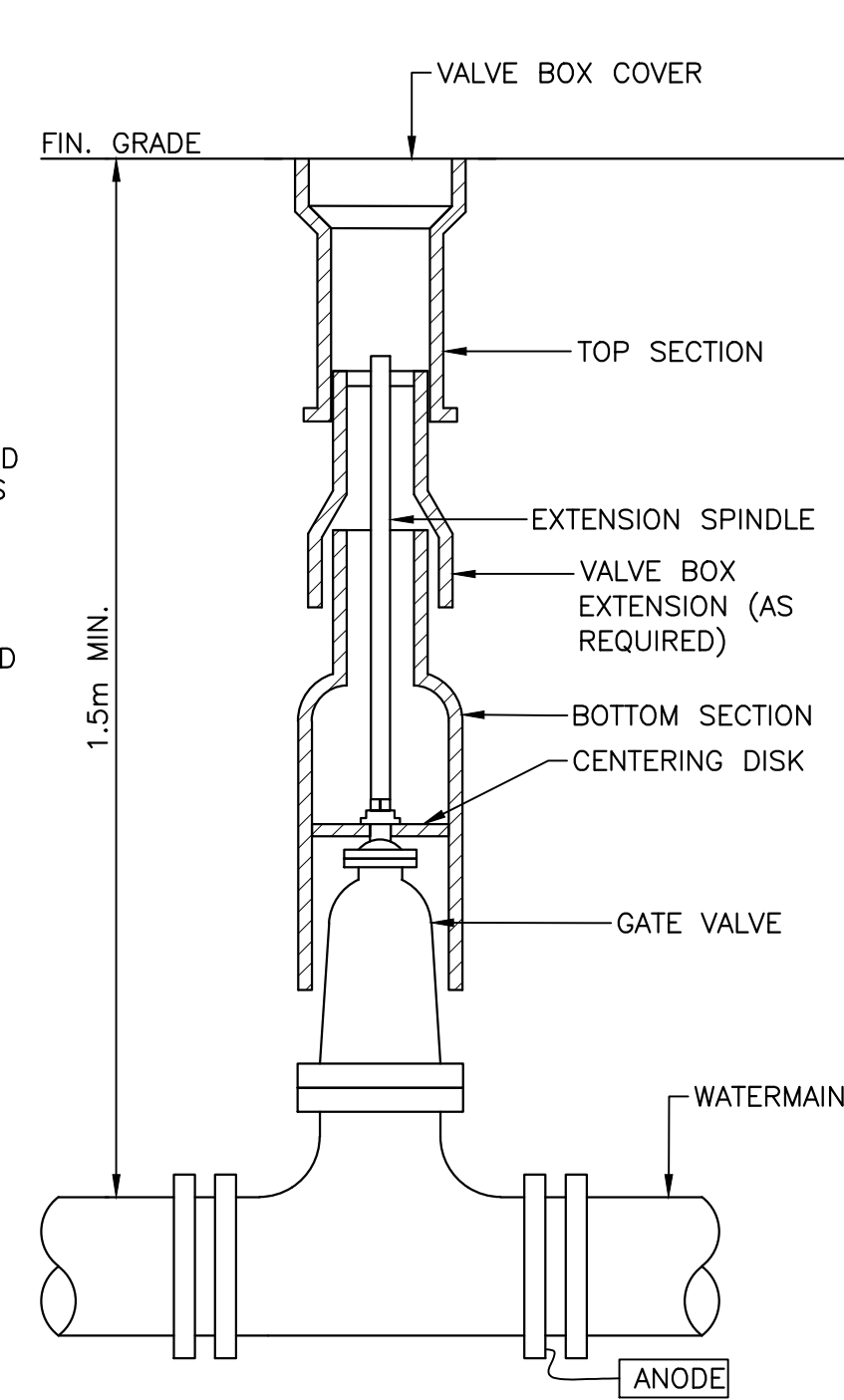
MINIMUM DISTANCE FROM FITTING TO UNDISTURBED GROUND		
PIPE DIAMETER	mm	mm
100		450
150		450
200		450

VERTICAL THRUST BLOCKS THRUST COMPENSATED FOR BY MASS OF CONCRETE (m <sup>3</sup> )				
PIPE DIA	mm	45° BEND	22.5° BEND	11.25° BEND
100		0.40	0.20	0.20
150		0.80	0.40	0.40
200		1.40	0.70	0.70

- NOTES:**
- SEE THRUST BLOCK CONFIGURATIONS.
  - THESE TABLES ARE BASED ON SOIL SUPPORTING CAPACITIES OF 100kPa AND AN INTERNAL PIPE PRESSURE OF 1035 kPa. WHERE DIFFERENT SUPPORTING CAPACITIES OR INTERNAL PRESSURES ARE ENCOUNTERED, CONTACT AREAS SHOULD BE CALCULATED BY THE DESIGN ENGINEER, AND SHOULD INCLUDE AN APPROPRIATE FACTOR OF SAFETY.



**3**  
**C101**  
**WATER LATERAL  
INSTALLATION DETAIL**  
SCALE: N.T.S.

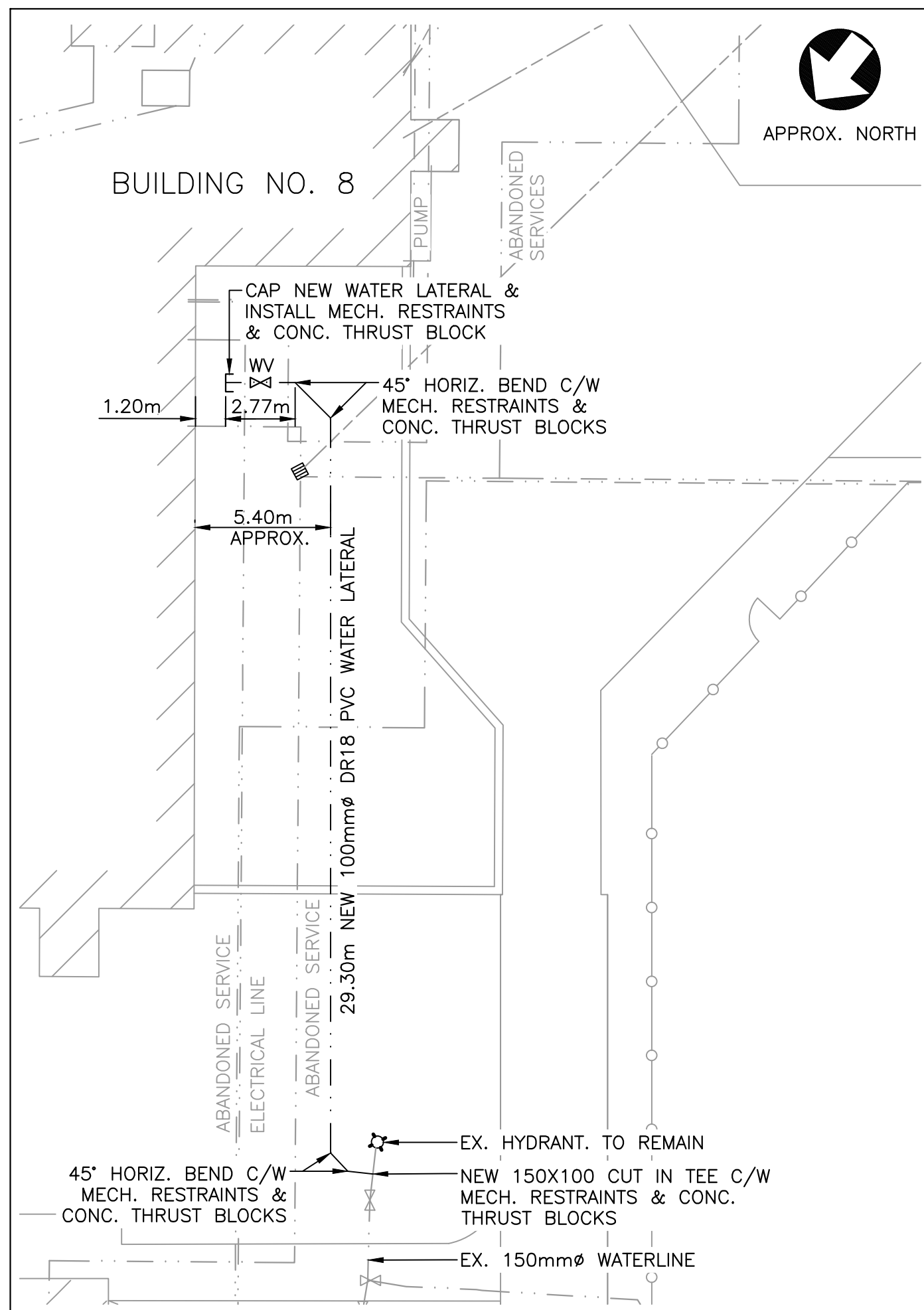


**5**  
**C101**  
**GATE VALVE DETAIL**  
SCALE: N.T.S.

**LEGEND:**

- EX. COMMS/ELEC. LINE
- EX. SANITARY LINE
- EX. STORM LINE
- EX. WATER LINE
- EX. FENCE
- EX. HEATING LINE
- EX. DISTRICT VENT LINE

- SANITARY TO BE REMOVED
- STORM TO BE REMOVED
- WATER TO BE REMOVED
- HEATING LINE TO BE REMOVED
- DISTRICT VENT LINE TO BE REMOVED
- NEW WATER LATERAL
- NEW FENCE



**2**  
**C101**  
**BUILDING NO. 8 SITE PLAN**  
SCALE: 1:200

**GENERAL NOTES:**

- THE FOLLOWING NOTES APPLY UNLESS OTHERWISE INDICATED.
- DO NOT SUBSTITUTE MATERIALS UNLESS PRIOR APPROVAL IS OBTAINED FROM THE DEPARTMENTAL REPRESENTATIVE.
- DRAWINGS HAVE BEEN COMPILED FROM INFORMATION PROVIDED BY OTHERS. NOT ALL SERVICES MAY BE SHOWN. THOSE SHOWN MAY NOT BE ACCURATE. CONTRACTOR SHALL CONFIRM EXISTING SERVICES DURING CONSTRUCTION AND EXERCISE CAUTION DURING EXCAVATION PROCEDURES. CONTRACTOR SHALL CONTACT APPROPRIATE AUTHORITY FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. ANY DAMAGES MADE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE. MAINTAIN MINIMUM DISTURBANCE IN ALL AREAS.
- ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF-SITE AT LOCATIONS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR TO SEPARATE AND RECYCLE WASTE IN ACCORDANCE WITH WASTE MANAGEMENT PLAN. HAZARDOUS WASTES SHALL BE DISPOSED OF IN ACCORDANCE WITH WASTE MANAGEMENT PLAN.
- CAPPING AND DRAINING OF STORM, SANITARY, WATER AND VENT LINES WHICH SERVE BUILDING 10 AND OTHER BUILDINGS, VIA BUILDING 10, SHALL BE COMPLETE PRIOR TO COMMENCEMENT OF BUILDING 10 DEMOLITION.
- CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE CONSTRUCTION.
- ALL EXCAVATIONS SHALL BE PROOF ROLLED AND BACKFILLED WITH STRUCTURAL FILL TO SUB-GRADE LEVEL. STRUCTURAL FILL SHALL BE PLACED IN MAX. 300mm LIFTS AND COMPACTED TO 98% SPMD.
- ALL DISTURBED AND EXPOSED AREAS SHALL BE REINSTATED WITH 150mm TOPSOIL AND HYDROSEED.
- GROUND WATER DEPTH UNKNOWN. CONTRACTOR SHALL PROVIDE A MEANS OF KEEPING EXCAVATIONS DRY TO PERMIT THE INSTALLATION OF NEW WORKS.
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES AND PROVIDE ADEQUATE SUPPORT DURING EXCAVATION AND BACKFILLING PROCEDURES.
- WATER PIPE SHALL BE PLACED WITH A MINIMUM COVER OF 1.5m BELOW FINISHED GRADE. WHERE MINIMUM COVER IS NOT POSSIBLE, ENCASE THE PIPE WITH (2) LAYERS OF 50mm THK. H140 RIGID POLYSTYRENE INSULATION ALL AROUND THE PIPE.
- PIPE BEDDING AND SURROUND MATERIAL SHALL BE COMPACTED TYPE 1 GRANULAR IN 150mm LIFTS. THE REMAINDER OF THE EXCAVATION SHALL BE COMMON MATERIAL TO SUB-GRADE.
- WATER PIPES SHALL BE INSTALLED WITH A COLORED WARNING TAPE INDICATING THE SERVICE TYPE BURIED BELOW. NO TRACE WIRE IS REQUIRED.
- ALL WATER PIPES SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN THE PRESENCE OF THE DEPARTMENTAL REPRESENTATIVE.
- ALL WATER PIPES SHALL BE DISINFECTED AND FLUSHED BY THE CONTRACTOR IN THE PRESENCE OF THE DEPARTMENTAL REPRESENTATIVE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR MUNICIPAL SERVICES. DEPARTMENTAL REPRESENTATIVE WILL TAKE WATER SAMPLES FOR LAB TESTING.
- NEW WATER LINE CONNECTION TO BE MADE TO BUILDING NO. 8, FLUSHED AND TESTED, PRIOR TO TAKING BUILDING NO. 10 OFFLINE.
- CONTRACTOR SHALL MAINTAIN WORKING VEHICLES SUCH THAT OILS AND FUEL DO NOT LEAK TO GROUND SURFACE. CONTRACTOR SHALL PROVIDE AND MAINTAIN SPILL CONTROL MEASURES ON SITE. VEHICLE MAINTENANCE AND FUELING TO OCCUR IN A CONTROLLED MANNER OFF SITE.

**EROSION AND SEDIMENT CONTROL NOTES:**

- CONTRACTOR SHALL CARRY OUT ENVIRONMENTAL PROTECTION METHODS IN ACCORDANCE WITH THE PROVINCE OF NOVA SCOTIA EROSION AND SEDIMENT CONTROL MANUAL AND GUIDELINES FOR USE ON CONSTRUCTION SITES (LATEST EDITION) AND IN ACCORDANCE WITH THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- CONTRACTOR SHALL SUBMIT ITS OWN SEDIMENT AND EROSION CONTROL PLAN TO CONSULTANT AND DEPARTMENTAL REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY DEMOLITION WORKS. CONTRACTOR SHALL PROVIDE A MARK-UP OF THIS PLAN THAT INDICATES THE METHODS PROPOSED AND DEVICES TO BE INSTALLED. PROTECTION METHODS SHALL BE COORDINATED WITH THE PROJECT SCHEDULE AND BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL ALL GROUND IS STABILIZED. THE PLAN SHALL BE CONTINUALLY UPDATED AS SITE CONDITIONS DICTATE.
- CONTRACTOR TO ENSURE COPIES OF ALL PERTINENT APPROVALS AND PERMITS ARE HELD ON-SITE. THIS SHALL INCLUDE THE CONTRACTOR'S OWN EROSION CONTROL PLAN AND ANY SUBSEQUENT REVISIONS.
- THE CONTRACTOR SHALL INCORPORATE A ROUTINE END-OF-DAY CHECK TO ENSURE THE INTEGRITY OF PROTECTION MEASURES USED.
- CONTRACTOR SHALL MONITOR METEOROLOGICAL CONDITIONS AND FORECAST AS A PROACTIVE MEANS TO MINIMIZE THE POTENTIAL FOR EROSION.
- INSPECT SEDIMENT AND EROSION CONTROL MEASURES ON A DAILY BASIS AND BEFORE AND AFTER HEAVY PRECIPITATION AND REPAIR AS NECESSARY.
- INSTALL SILT FENCES, PROTECTION BERMS, CUT OFF DITCHES, SILTATION PONDS, GEOTEXTILES, HAY OR OTHER PROTECTION METHODS AS REQUIRED BY THE SITE CONDITIONS TO PREVENT SEDIMENT FROM ENTERING WATERCOURSES AND SEWERS.
- MAINTAIN A STOCKPILE OF APPROPRIATE EROSION CONTROL AND ENVIRONMENTAL PROTECTION MATERIALS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL PERFORM WORK TO MINIMIZE DISTURBANCE TO SURROUNDING PROPERTIES AND MINIMIZE EXPOSED OPEN GROUND.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN DIVERSION DITCHES AROUND AND/OR THROUGH THE CONSTRUCTION SITE TO KEEP OFF-SITE "CLEAN" WATER AWAY FROM THE WORKS.
- STABILIZE ALL EXPOSED SLOPES AND OTHER AREAS NOT SUBJECT TO REWORKING AS SOON AS FINISHED GRADES ARE ESTABLISHED.
- REMOVE SILT ACCUMULATIONS AT SILT FENCES AND OTHER PROTECTION DEVICES BY CAREFUL HAND EXCAVATION.
- WHEN DE-WATERING OF THE CONSTRUCTION AREA IS REQUIRED, ONLY CLEAN WATER MAY BE DISCHARGED FROM THE SITE. DE-WATERING OF EXCAVATIONS SHALL BE DIRECTED THROUGH GRAVEL BERMS, FILTER BAGS OR UNDISTURBED VEGETATION.
- DO NOT PUMP, DRAIN OR PERMIT WATER CONTAINING SUSPENDED MATERIALS TO ENTER INTO WATERWAYS OR SEWERS.
- INSTALL SILT BAGS IN ALL EXISTING NEARBY CATCH BASINS DURING CONSTRUCTION.
- CLEAN ROADS TO REMOVE ANY MUD AND SEDIMENT THAT MAY BE TRACKED OFF-SITE BY THE CONSTRUCTION EQUIPMENT.

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NOTE:  
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PROOF OF SYSTEM FUNCTIONALITY OF ALL AFFECTED SYSTEMS SHALL BE PROVIDED TO CSC PRIOR TO ANY BUILDING DEMOLITION.

COORDINATE WITH OTHER TRADES ON SITE. REFER TO ALL DOCUMENTS IN THIS PACKAGE FOR AFFECTED SYSTEMS.

0	ISSUED FOR TENDER	11/10/2017
A	ISSUED FOR 99% SUBMISSION	03/31/2017
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project	project	
<p><b>SPRINGHILL INSTITUTION DEMOLITION BUILDING NO. 10 SPRINGHILL, NS</b></p>		
drawing	dessin	
<p><b>CIVIL WORKS SITE PLAN, DETAILS AND CONSTRUCTION NOTES</b></p>		
designed	ATN	conçu
date	MARCH 2017	
drawn	AAM	dessiné
date	MARCH 2017	
approved		approuvé
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PWSC Project Manager Administrateur de projets TPSCG		
project number	no. du projet	
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<p><b>C-101</b></p>		



# TABLE 1/E-001 ELECTRICAL NOTES

## PART 1 - GENERAL

- SUPPLY, INSTALL & REMOVE ALL MATERIAL DESCRIBED HEREIN AND ON THE DRAWINGS SO AS TO FORM A COMPLETE AND OPERATIONAL JOB.
- THE ELECTRICAL CONTRACTOR SHALL CARRY OUT WORK FOR CUTTING OF HOLES IN CONNECTION WITH ELECTRICAL WORK. PATCHING AND REPAIRING OF EXCESSIVE DAMAGE WHEN DRILLING AND CUTTING WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. REPAIR AND MAKE GOOD ALL ITEMS AFFECTED BY ANY WORK UNDER THIS SCOPE.
- SCHEDULE ALL WORK DISRUPTIONS AND OUTAGES WITH THE ARCHITECT/INSTITUTION MANAGER PRIOR TO COMMENCING. COORDINATE INSTALLATIONS WITH INSTITUTION MANAGER / CSC REPRESENTATIVE ON SITE.
- ALL CABLES AND CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF EXISTING PIPES, CONDUITS AND EQUIPMENT.
- ALL CABLES SHALL BE TAGGED AT BOTH ENDS USING PANDUIT PLD TYPE LABELS.
- ALL CONDUIT RUNS SHALL CONTAIN A PULL CORD TO ACCOMMODATE FUTURE INSTALLATIONS.
- ALL CONDUITS AND JUNCTIONS/PULL BOXES SHALL BE IDENTIFIED USING THE FOLLOWING COLOR CODING:
  - POWER 0 TO 600V - YELLOW
  - GROUND OR BOND - GREEN
  - SECURITY/CCTV-GREEN

IDENTIFY CONDUIT AT 15240mm INTERVALS OR WHERE THEY ENTER WALLS, CEILING OR FLOORS. ALL BRANCH CIRCUITS AND COMPONENTS ON DISTRIBUTION PANELS AND FUSIBLE DISCONNECT SWITCHES SHALL BE PROPERLY IDENTIFIED AS TO WHAT THEY SERVE, FEED, ETC., SO AS TO PROVIDE FOR EASE OF MAINTENANCE. USE WHITE LAMACOD NAME PLATES WITH BLACK LETTERS OUTSIDE UNITS & DIRECTORY INSIDE PANELS. ALL BRANCH CIRCUIT CONDUCTORS WITHIN PANELS SHALL BE LACED WITH T&B TY-RAP CABLE TIES AND SHALL BE IDENTIFIED BOTH AT THE PANEL AND OUTLET BOXES USING T&B TYPE E-Z CODE WRITE ON TYPE SELF LAMINATING LABELS INSTALLED IN A "FLAGGED" MANNER. IDENTIFY PANELS DIRECTORIES WITH NEW CIRCUIT CONNECTIONS. ALL RECEPTACLES SHALL ALSO BE IDENTIFIED WITH LAMACOD PLATES RIVETED TO BLOCK WALLS & GLUED TO DRYWALL.

- SEAL ANY PENETRATIONS, USING 3M SEALANT, FOR CONDUITS ENTERING BUILDING #8, #90 & #51.
- DURING CONSTRUCTION AND AT THE COMPLETION OF THIS PROJECT, THE SITE SHALL BE LEFT NEAT, TIDY AND FREE OF DEBRIS.
- AT THE COMPLETION OF THE PROJECT, TEST AND OPERATE ALL EQUIPMENT INSTALLED BY THIS CONTRACTOR TO ENSURE IT OPERATES AS EXPECTED AND CORRECT AND REPAIR ANY ITEMS REQUIRED AT THAT TIME.
- SECURING OF SURFACE AND CONCEALED CONDUITS TO STRUCTURE FOR SIZES UP TO AND INCLUDING 32mm" DIAMETER MAY BE DONE UTILIZING "ONE-HOLE" STEEL STRAPS. "TWO-HOLE" STEEL STRAPS SHALL BE USED FOR ALL SIZES 50mm AND LARGER.
- SUPPORT OF ELECTRICAL SYSTEMS RACEWAY SHALL BE INDEPENDENT OF ANY TYPE OF SUSPENDED CEILING SUPPORT, RODS, WIRES, ETC., AND MECHANICAL. PIPING OR DUCT SYSTEMS, ALL SUSPENDED TYPES OF JUNCTION, PULL AND OUTLET BOXES TO BE WITH MINIMUM SIZE 3/8" THREADED ROD, NUTS AND FLAT WASHERS. THREADED RODS TO BE SECURED TO BOXES WITH ONE FLAT WASHER AND NUT INSTALLED ON BOTH SIDES OF BOX. "ONE" ROD REQUIRED FOR ALL BOXES SIZED UP TO AND INCLUDING 4 1/16" SQUARE. "TWO" RODS REQUIRED FOR BOXES LARGER THAN 4 1/16" SQUARE, UP TO AND INCLUDING 8" X 8" SQUARE. CONCEALED JUNCTION, PULL OUTLET, ETC., TYPE BOXES LOCATED IN CEILING SPACES ARE NOT TO BE GREATER THAN 30" ABOVE FINISHED CEILING ELEVATION.

- STEEL SET SCREW COUPLINGS AND CONNECTORS SHALL BE USED ON EMT CONDUITS. CONDUIT FITTINGS SHALL BE THREADED TYPE. THREADED PLASTIC OR METAL BUSHINGS TO BE INSTALLED ON ALL EMT CONNECTORS SIZED 35mm AND LARGER. NYLON INSULATED THROATS ARE NOT REQUIRED ON EMT CONNECTORS.
- TOGGLE BOLTS ARE NOT TO BE USED TO SECURE EQUIPMENT TO PLASTERBOARD TYPE CEILINGS OR WALLS.
- PROVIDE CONNECTIONS TO ALL OWNER SUPPLIED & MECHANICAL EQUIPMENT.
- ALTERNATE PRODUCTS MUST MEET OR EXCEED STANDARD OF ACCEPTANCE.
- ALL INTERIOR BRANCH CIRCUIT WIRING SHALL BE ACCOMPLISHED USING RW90 CABLE IN EMT RACEWAY. EXTERIOR UNDERGROUND BRANCH CIRCUIT AND PUBLIC ADDRESS SYSTEM WIRING SHALL BE TECK90. EXTERIOR MOUNTED CABLEING FOR CCTV, AND SECURITY SYSTEMS SHALL BE INSTALLED IN RGS CONDUIT WITHIN CONCRETE ENCASED DUCT BANKS. ALL CONDUCTORS SHALL BE INSTALLED IN DB2 PVC CONDUIT. ALL CABLES AS WELL AS CONDUIT & RACEWAYS SHALL BE SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2015 CANADIAN ELECTRICAL CODE. INSTALL CABLE ON POLES AS AND AS REQUIRED TO MEET ALL CODE REQUIREMENTS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL THE CONTRACT DOCUMENTS INCLUDING ARCHITECTURAL & MECHANICAL DRAWINGS & SPECIFICATIONS.
- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH ALL REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE CSA STANDARD C22.1 PART 1 & THE NATIONAL BLDG CODE & THE REQUIREMENTS OF THE FIRE MARSHALL'S OFFICE, AS MINIMUM STANDARDS. THESE STANDARDS TOGETHER WITH ALL LOCAL OR MUNICIPAL RULES, REGULATIONS, AND ORDINANCES SHALL BE CONSIDERED AS THE LATEST APPROVED EDITIONS AT THE TIME OF TENDER CLOSING. IN NO INSTANCE, SHALL THE STANDARD ESTABLISHED BY THE CONTRACT DOCUMENTS, BE REDUCED BY ANY CODES.
- THE CONTRACTOR SHALL OBTAIN ALL SUCH PERMITS REQUIRED BEFORE AND/OR AFTER COMPLETION OF THE ELECTRICAL WORK AND SHALL FURNISH THE OWNER AND/OR ENGINEER WITH A CERTIFICATE OF FINAL INSPECTION FROM THE INSPECTION DEPARTMENT OF THE ELECTRIC UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING WITH THE INSPECTION AUTHORITIES PRIOR TO THE INSTALLATION & SHALL MAKE ANY ADJUSTMENTS NECESSARY.
- THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE EXISTING EQUIPMENT AND THE SITE OF THE WORK AND THE EXISTING CONDITIONS IN ORDER TO BECOME ACQUAINTED WITH THE EXTENT OF THE WORK INVOLVED AND WITH ANY DIFFICULTIES WITH THE INSTALLATION OF EQUIPMENT. NO ALLOWANCES OR EXTRAS WILL BE ALLOWED FOR EXTRA EXPENSE DUE TO CONDITIONS ENCOUNTERED DURING THE COURSE OF THE WORK THAT COULD HAVE BEEN DETERMINED BY A SITE VISIT.
- PULL AND JUNCTION BOXES, WHERE LARGER THAN STANDARD SWITCH BOXES, SHALL BE THE EQUIVALENT TO TYPE "D" BOXES SIZED ACCORDING TO C.E.C. SECTIONS 12-3000 TO 12-3040 JUNCTION BOXES 6" X 6" OR LARGER SHALL BY TYPE C OR E COW WINGED COVER PLATES. SURFACE BOXES IF REQUIRED SHALL BE TYPE FS OR FD TYPE C/W METAL COVERPLATES. PROVIDE PVC TYPE "D" OUTLET BOXES ON STEEL FENCE POLES.
- THE WORK SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS AFTER FINAL ACCEPTANCE.
- ALL EQUIPMENT AND EXPOSED NON-CURRENT CARRYING METAL, CONDUITS AND PARTS SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED TO MEET MINIMUM OF THE C.E.C. SECTION 10. ALSO ENSURE ADDITIONAL STANDARDS OF THE ELECTRIC UTILITY & SECURITY SYSTEM PROVIDER.
- ALL EQUIPMENT SPECIFICATIONS & SHOP DRAWINGS SHALL BE INCLUDED IN THE OPERATIONS & MAINTENANCE MANUALS. PROVIDE SHOP DRAWINGS FOR ALL NEW EQUIPMENT PROVIDED ON THIS PROJECT. PROVIDE RECORD DRAWINGS WHEN PROJECT IS COMPLETED INDICATING ALL CHANGES TO THE DRAWING.
- USE A MINIMUM OF 27mmØ, THICK WALLED PVC CONDUIT FOR UNDERGROUND INSTALLATION OF ELECTRICAL, DATA/COMM OR SECURITY SYSTEMS. PVC SHALL TRANSITION TO RIGID GALVANIZED METAL PRIOR TO EMERGING FROM FINISHED FLOOR OR GRADE UNLESS NOTED OTHERWISE ON DRAWINGS.
- THE FOLLOWING CORRECTIONAL SERVICES CANADA DOCUMENTS SHALL BE REFERENCED FOR INSTALLATION OF POWER AND STRUCTURED CABLEING SYSTEMS AND REQUIREMENTS FOR SECURITY, CCTV, PUBLIC ADDRESS, STRUCTURED CABLEING:
  - ES/SOW-0101 (REV 3) - PROCUREMENT & INSTALLATION OF ELECTRONIC SECURITY SYSTEMS.
  - ES/SOW-0102 (REV 6) - QUALITY CONTROL FOR PROCUREMENTS AND INSTALLATIONS OF ELECTRONIC SECURITY SYSTEMS.
  - ES/SOW-0110 (REV 1) - STRUCTURED CABLEING SYSTEMS FOR ELECTRONIC SECURITY INSTALLATIONS.
  - ES/SPEC - 0006 (REV 2) - SPECIFICATION CONDUIT, SPACE AND POWER REQUIREMENTS FOR SECURITY SYSTEMS FOR USE IN FEDERAL CORRECTIONAL INSTITUTIONS.
  - ES/SPEC0101 (REV 2) - PUBLIC ADDRESS SYSTEM FOR USE IN FEDERAL CORRECTIONAL INSTITUTIONS.
  - ES/STD-0223 (REV 4) - PAN/TILT/ZOOM NETWORK COLOUR DOME CAMERA FOR USE IN FEDERAL CORRECTIONAL INSTITUTIONS.

- ALL ELECTRICAL EQUIPMENT THAT IS TO BE TURNED OVER TO THE SPRINGHILL INSTITUTION SHALL BE REMOVED ONLY BY CORCAN STAFF.

## PART 2 - LIGHTING

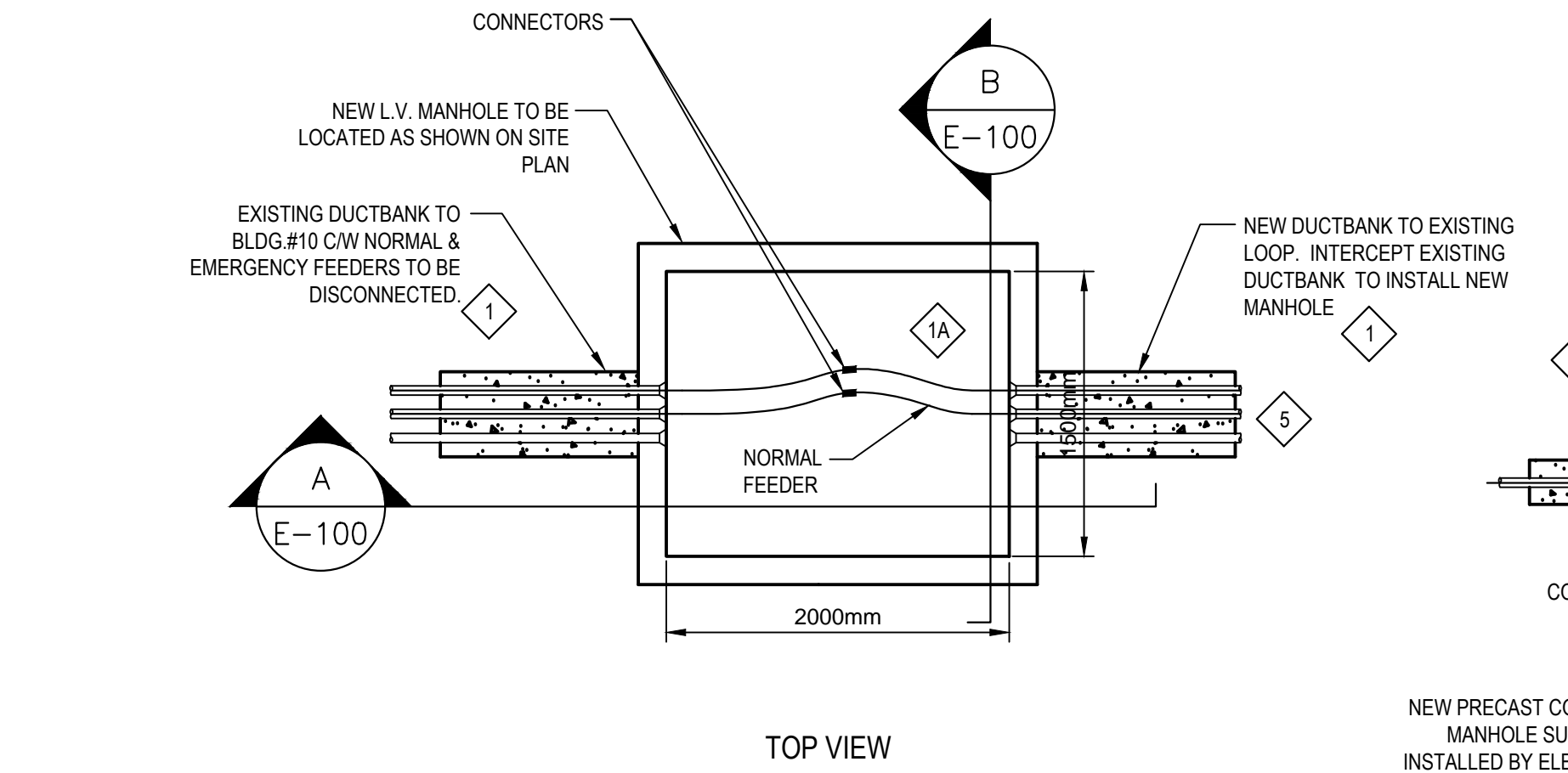
- PROVIDE 120V 150 WATT LED LIGHT FIXTURE FEATURING 39.5cm x 30.5cm x 18cm FLOODLIGHT C/W YOKE & NECESSARY SLIP-FITTER FOR MOUNTING ON STEEL POLE, 150W LED LAMPS, 120V DRIVER. MOUNT ON POLE AT 9144mm ABOVE GRADE. APPROVED EQUAL BY LED ROADWAY LIGHTING CAT# SAT-96M-600MSEL600GY1ANS: RUDD CAT# LED WAY TYPE 1" OR CORCAN C/W LED ROADWAY.
- LUMINAIRES SHALL BE MOUNTED ON BRACKETS OR YOKES AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS PROVIDE ALL NECESSARY, CABLEING AND DEVICE BOXES REQUIRED.
- WALL MOUNTED LUMINAIRES SHALL BE PHILIPS GARDCO Cat#161-46L-900-NE-G2-3; MCGRAW-EDISON Cat# GWCAFO2LEDE1T3AP-7050 MCGRAW-EDISON Cat# GWCAFO2LEDE1T3AP-7050 LITHONIA Cat# CSXW LED 30C 700 40K T3M 120 DNAXD - ALL SHALL HAVE VANDAL PROTECTION GUARDS.
- LUMINAIRES SHALL BE WARRANTED FOR A 3 YEAR PERIOD.
- PROVIDE 9144mm (30'-0") - 103mm (4'-0") ROUND STEEL POLE INSTALLED ON CONCRETE BASE FOR LIGHTING AND PUBLIC ADDRESS SYSTEM DEVICES. POLES SHALL MATCH MANUFACTURER OF EXISTING LIGHTING AND P.A. POLES INSTALLED ON SITE. VERIFY MANUFACTURER ON SITE.

## PART 3 - POWER DISTRIBUTION

- ALL POWER WIRES SHALL BE STRANDED RW90 COPPER IN EMT RACEWAY WITHIN BLDG UNLESS OTHERWISE NOTED. USE STEEL SET SCREW CONNECTORS FOR EMT. PVC CONDUIT SHALL BE USED IN DUCT BANKS. PROVIDE TECK 90 -40C UV RESISTANT (XLPE) CABLE FOR OUTDOOR POLE LIGHTING.
- SUPPLY AND INSTALL A GREEN INSULATED BOND #12AWG MIN. IN ALL NEW POWER CONDUIT RUNS. DO NOT USE BARE BONDING WIRES. PROVIDE SEPARATE BOND FOR EACH CIRCUIT.
- DISCONNECT AND DE-ENERGIZE ELECTRICAL FEEDERS OR EQUIPMENT WHICH ARE WITHIN THE SCOPE OF THIS PROJECT PRIOR TO REMOVAL OR RELOCATION.
- TEST THAT ALL POWER WIRES ARE FREE OF SHORTS, GROUNDS, ETC., AND THAT INSULATION VALUES ARE PER CEC.
- LIQUID SEAL FLEXIBLE METAL CONDUIT, NOT SMALLER THAN 3/8" INSIDE DIAMETER, SHALL BE USED FOR CONNECTIONS TO ALL LIGHT FIXTURES, WITH A MAXIMUM OF #12 AWG IN 3/8" CONDUIT.
- WIRE SIZED TO BE INCREASED TO MEET CEC REQUIREMENTS OR AS OTHERWISE NOTED, WHICHEVER IS LARGER.
- WIRING IN CONDUITS EXCEEDING 50 VOLTS TO GROUND, SHALL BE OF SOFT DRAWN, STRANDED COPPER OF 98% CONDUCTIVITY, AND OF FULL AWG SIZE AS FOLLOWS:
  - INSULATION TYPE SHALL BE RW90 X-LINK, RATED AT 600 VOLTS OR HIGHER USE RWU90 INSULATION TYPE FOR EXTERIOR LIGHTING
  - MINIMUM WIRE SIZE UNLESS NOTED OTHERWISE SHALL BE #12 AWG.

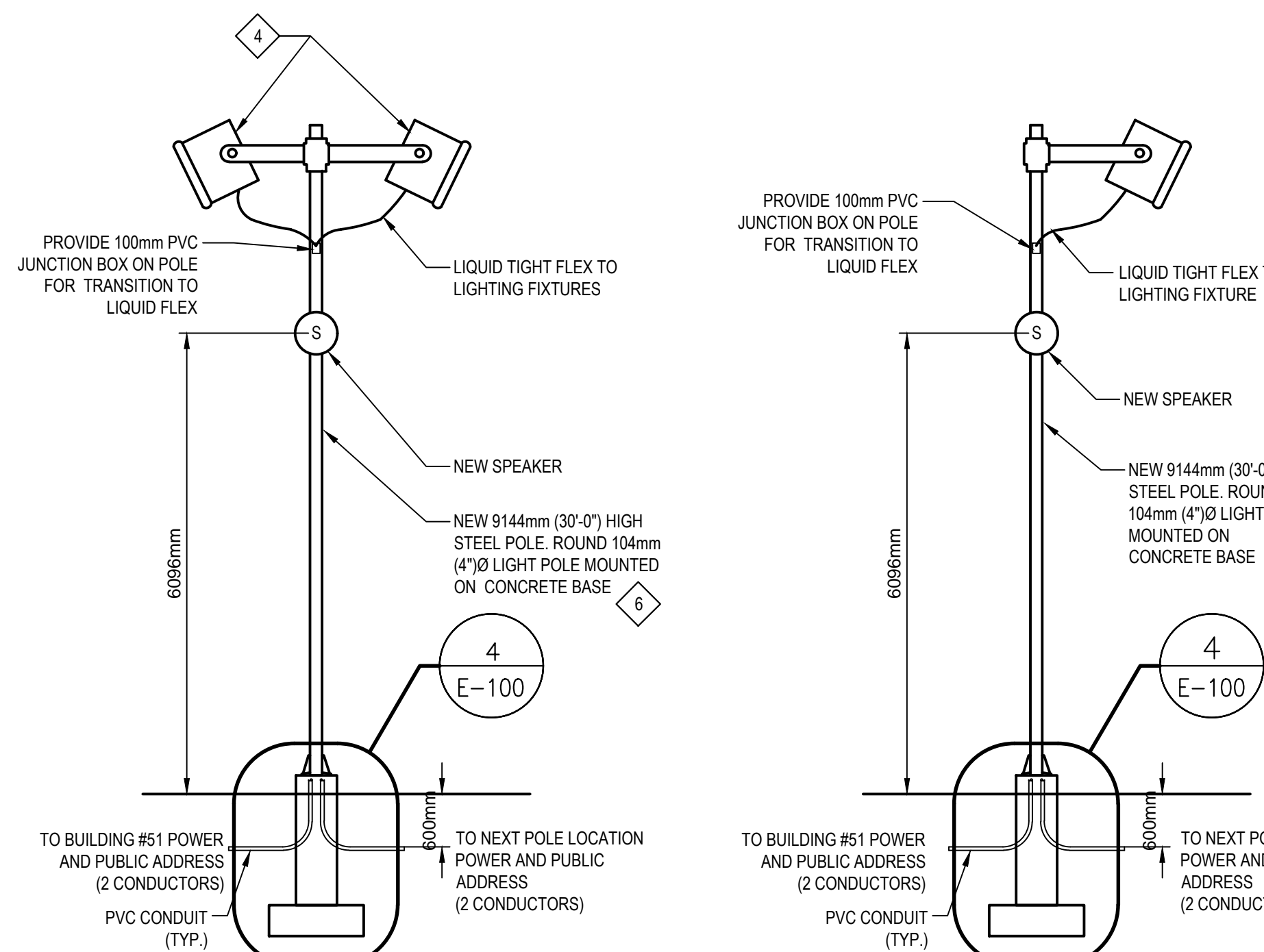
## PART 4 - FIRE ALARM SYSTEMS

- REMOVAL OF FIRE ALARM SYSTEM FROM BUILDING #10 SHALL FOLLOW THE SAFETY REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL FIRE CODE OF CANADA. THE FIRE ALARM SYSTEM WITHIN BUILDING #10 SHALL REMAIN OPERATIONAL DURING DEMOLITION AND SHALL BE DISCONNECTED FROM INSTITUTION SYSTEM ONLY AT COMPLETION OF DEMOLITION. THE ENTIRE FIRE ALARM SYSTEM SHALL REMAIN FUNCTIONING AT ALL TIMES. FIRE ALARM SYSTEM SHALL BE RECONFIGURED AFTER DEMOLITION TO REMOVE BUILDING #10 FROM PROGRAM.



## DETAIL - NEW ELECTRICAL MANHOLES

N.T.S.



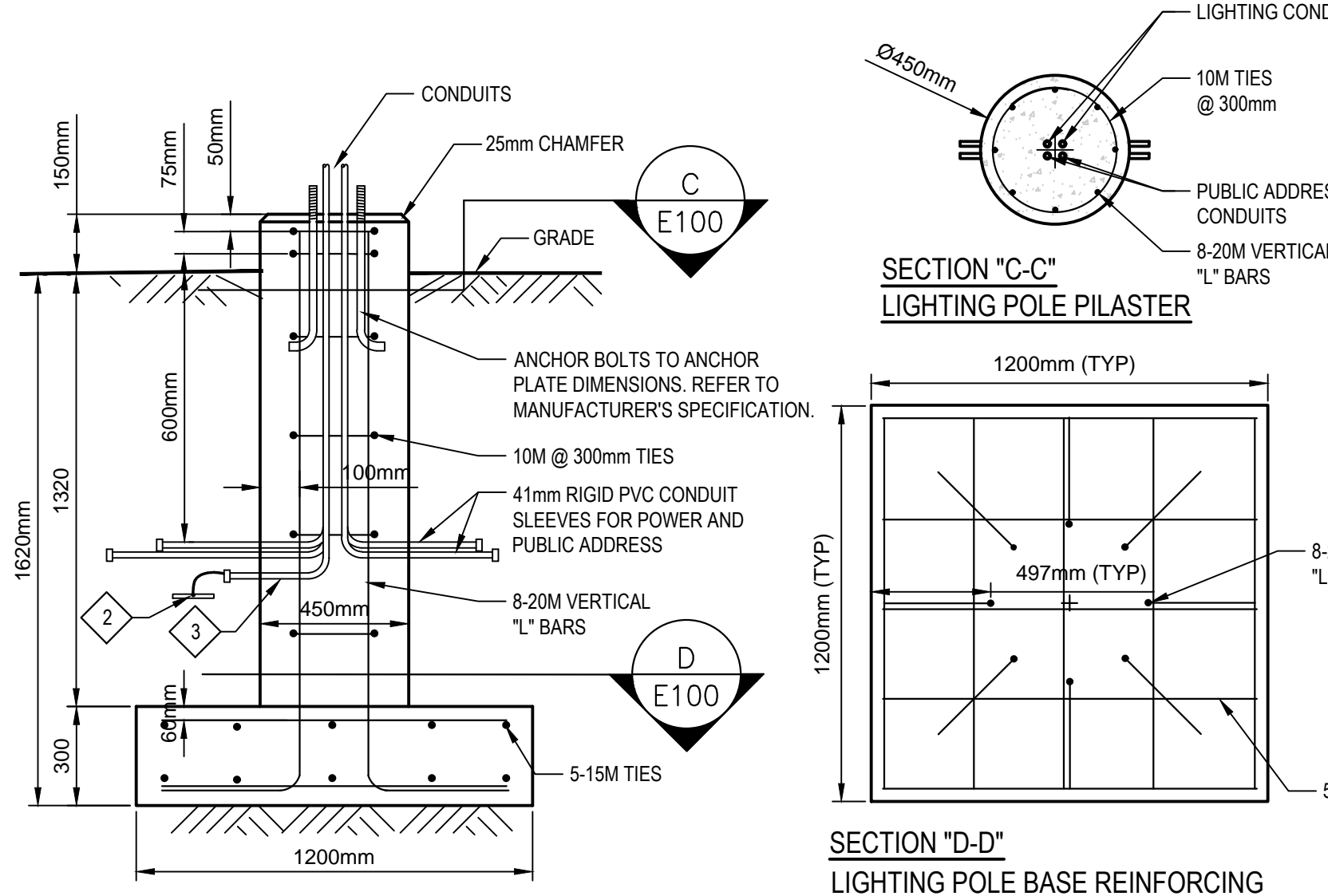
NOTE: THIS DETAIL IS DIAGRAMMATIC AND IS INTENDED TO PROVIDE GENERAL MOUNTING INFORMATION FOR SPEAKER AND LIGHT INSTALLATION. ACTUAL MOUNTING REQUIREMENTS MAY VARY. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

## DETAIL - NEW POLE, LIGHT FIXTURES & SPEAKER

N.T.S.

## DETAIL - NEW CONCRETE BASE FOR LIGHTING POLE

N.T.S.



NOTE: REFER TO DETAIL 4 ON DRAWING E-103 FOR CONNECTION OF CONDUCTORS IN POLE BASES.

## ELECTRICAL KEY NOTES

- PROVIDE NEW MANHOLE AT EACH LOCATION INDICATED ON DRAWING E-102. PROVIDE NEW DUCTBANK BETWEEN MANHOLES AND PROVIDE NEW FEEDERS IN NEW DUCT BANK AS INDICATED ON DETAIL 1 DRAWING E-103.
- PROVIDE TWO SETS OF LUG CONNECTORS IN NEW MANHOLES FOR QUICK CONNECTION OF CABLES. KITS SHALL BE RATED FOR 500MCM CU CABLES AND BE EQUAL TO T&B BLACKBURN SERIES #AMT50044. ENSURE EXCESS CABLE OF 2M IN MANHOLE FOR FUTURE CONNECTIONS TO THE LOOP.
- SUPPLY 600mmx600mm GALVANIZED STEEL GROUND PLATE AS SHOWN IN SAND OR PROVIDE A 20mm x3848mm STEEL COPPER CLAD GROUND ROD MOUNTED BESIDE POLE AND CONNECT TO POLE WITH BARE COPPER CONDUCTOR.
- PROVIDE 12mm CONDUIT C/W GROUNDING WIRE FROM GROUND CONNECTION IN POLE BASE AND CONNECT GROUND WIRE TO GROUNDING PLATE WITH CADWELD CONNECTION FOR EACH NEW POLE.
- PROVIDE SITE LIGHTING LED FIXTURE C/W YOKE OR SLIP-FITTER TO MATCH LIGHTING FIXTURE FOR MOUNTING ON STEEL POLE.
- PROVIDE NEW DUCT BANK FOR CONNECTION TO LOOP SYSTEMS IN EXISTING DUCT BANKS. NEW DUCT BANK SHALL MATCH EXISTING. CONFIGURE DUCT BANK ENTRY POINTS IN NEW MANHOLES TO ACCOMMODATE EXISTING DUCT BANKS.
- PROVIDE STEEL POLE FOR LIGHTING AND PUBLIC ADDRESS SPEAKERS. INSTALL ON CONCRETE BASE.
- VERIFY EXISTING DUCT BANK DEPTH ON SITE.

## ELECTRICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- BRING ALL OMISSIONS AND DISCREPANCIES, INCLUDING DIMENSIONS TO THE ATTENTION OF THE DEPARTMENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK.
- VERIFY ALL EXISTING CONDITIONS ON SITE.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL REMOVALS.

## NEW POLE BASE STRUCTURAL NOTES

- ALL CONCRETE, CONCRETE MATERIAL, FORMS, PRACTICE, ETC., SHALL BE FOR PRECAST CONCRETE AND CONFORM TO CSA-A23.1 AND CSA-A23.4.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 30MPa TYPE F1. COMPRESSIVE STRENGTH AT TIME OF STRIPPING SHALL BE 15 MPa UNO.
- ALL CONCRETE TESTING SHALL CONFORM TO CSA-A23.2
- FOR COMPRESSIVE STRENGTH TESTING OF CONCRETE A MINIMUM OF 3-150mm x 300mm CYLINDERS ARE REQUIRED.
- USE 20mm MAX. AGGREGATE SIZE THROUGHOUT. ALL CONCRETE SHALL BE AIR ENTRAINED TO 6%(±1%). SLUMP TO BE 75mm (± 25mm).
- AT LEAST ONE SLUMP TEST SHALL BE TAKEN WITH EACH COMPRESSIVE STRENGTH TEST.
- AT LEASE ONE AIR ENTRAINMENT TEST SHALL BE TAKEN WITH EACH COMPRESSIVE STRENGTH TEST AS APPLICABLE.
- NO ADMIXTURES SHALL BE USED WITHOUT THE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONCRETE PROTECTIVE COVER FOR REINFORCING STEEL SHALL BE A MINIMUM OF 60mm UNO.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400MPa AND SHALL CONFORM TO CSA G30.18
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" BY "THE REINFORCING STEEL INSTITUTE OF CANADA, LATEST EDITION.
- ALL REINFORCING STEEL SHALL BE LAPPED USING CLASS B TENSION LAP SPLICE.
- TYPE AND LOCATION OF CONCRETE INSERTS AND ANCHORS TO BE AS SHOWN ON DRAWINGS. OBTAIN ENGINEERS APPROVAL OF VARIATIONS OF ABOVE. ANCHORS TO BE HOT DIPPED GALVANIZED AND INSTALLED AS PER MANUFACTURE'S SPECIFICATIONS (OCE).
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL FEEDS.
- ANCHOR BOLTS AND TEMPLATE FOR INSTALLATION SHALL BE PROVIDED BY CONTRACTOR FOR INSTALLATION AS PER MANUFACTURER'S SPECIFICATIONS.
- PRECAST CONCRETE BASES SHALL NOT BE SHIPPED TO SITE UNTIL CONCRETE HAS CURED TO 70% OF THE DESIGN STRENGTH.
- PRECAST BASE SHALL BE INSTALLED PLUMB AND LEVEL.



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## ABBREVIATIONS

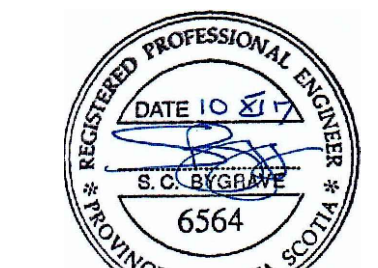
TYP	TYPICAL
SIM	SIMILAR
UG	UNDERGROUND
C/W	COMPLETE WITH
A.F.G.	ABOVE FINISHED GRADE
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION

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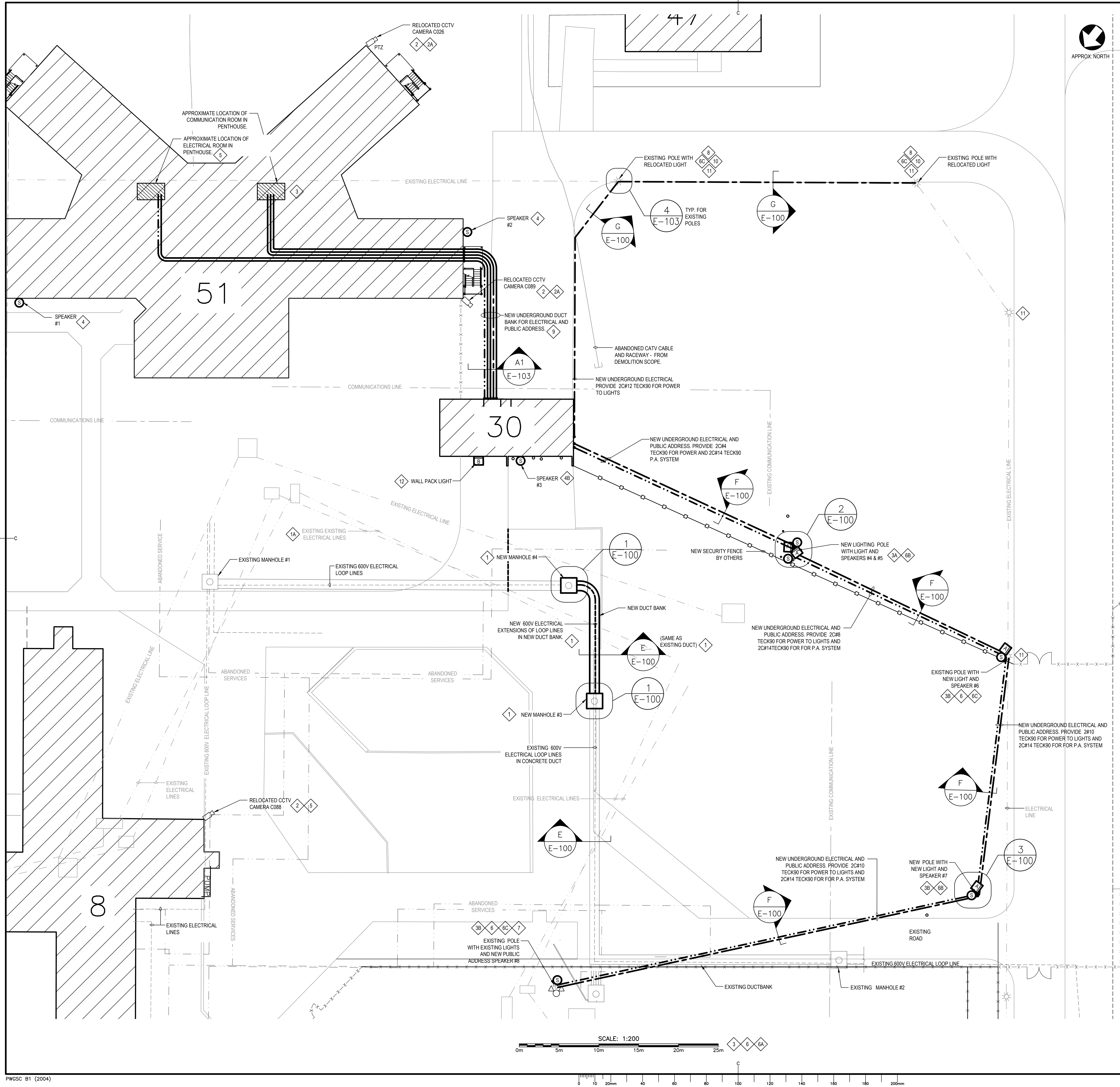


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approved		approuvé
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project number	no. du projet	
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drawing no.	no. du dessin	
E-100		









### ELECTRICAL KEY NOTES

1 PROVIDE NEW MANHOLE #3 & #4 AT TERMINATION POINTS OF EXISTING ELECTRICAL LOOP DUCTS IN DEMOLISHED BUILDING #10 AREA. PROVIDE NEW CONCRETE ENCASED DUCTS AS PER EXISTING DUCT BANK CONFIGURATION. REFER TO DETAILS ON DRAWING E100. NEW DUCTS TO MATCH EXISTING DUCTS.

1A THIS ELECTRICAL LINE & CONDUIT ARE DEAD-ENDED BETWEEN EXISTING BUILDING #10 AND DEMOLISHED BUILDING #11.

2 RELOCATE EXISTING EXTERIOR CCTV CAMERAS AND MOUNTING EQUIPMENT FROM ORIGINAL LOCATIONS ON BUILDING #10 TO NEW POSITIONS ON BUILDING #8 AND BUILDING #51 AS INDICATED. INSTALL AT 6096mm (20'-0") ABOVE GRADE. PROVIDE ALL ASSOCIATED CABLING AND CONDUIT FOR CONTROL AND SIGNAL. AS NECESSARY, REUSE MOUNTING DEVICES AND EQUIPMENT FOR RELOCATION. COORDINATE FINAL POSITION ON SITE WITH CSC REPRESENTATIVE. REPROGRAM THE CCTV SYSTEM TO INCLUDE RELOCATED CCTV CAMERAS IN SITE MAP.

2A REPROGRAM THE CCTV GENETEC AND SENSTAR 100 FAAS SYSTEMS TO ADDRESS ALL RELOCATED CCTV BUILDING #10 CAMERAS. COORDINATE FINAL LOCATIONS ON SITE WITH CSC REPRESENTATIVE.

3 PROVIDE NEW 250 PUBLIC ADDRESS AMPLIFIER IN BUILDING #51 AND PROVIDE AND INSTALL NEW U/S SERVICES IN RIGID PVC CONDUITS OR TECK90 CABLE TO MATCH EXISTING FOR PUBLIC ADDRESS. COORDINATE AMPLIFIER LOCATION ON SITE WITH CSC REPRESENTATIVE. NEW AMPLIFIER SHALL BE CONNECTED TO THE FACILITY'S BOGEN PCM 2000 PUBLIC ADDRESS SYSTEM LOCATED IN BUILDING #11. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL MODULES REQUIRED FOR CONNECTION AND REPROGRAMMING OF THE BOGEN SYSTEM TO INCLUDE REMOVAL OF BUILDING #10 COMPONENTS AND THE ADDITION OF NEW PUBLIC ADDRESS ZONES AND SPEAKERS. ALL NEW SPEAKERS IN THIS SCOPE ARE TO MATCH EXISTING SYSTEM AND BE SERVED THROUGH NEW AMPLIFIER. ALL NEW SPEAKERS SHALL BE INSTALLED AT 6096mm (20'-0") ABOVE FINISHED GRADE UNLESS INDICATED OTHERWISE. REPROGRAM THE PUBLIC ADDRESS SYSTEM AS REQUIRED TO IDENTIFY NEW SPEAKER INSTALLATIONS. PROVIDE WIRING TO MATCH EXISTING PUBLIC ADDRESS SYSTEM WIRING. THE FOLLOWING CORRECTIONAL SERVICES CANADA DOCUMENTS SHALL BE REFERENCED FOR INSTALLATION OF POWER AND STRUCTURED CABLING SYSTEMS AND REQUIREMENTS FOR SECURITY, CCTV, PUBLIC ADDRESS, STRUCTURED CABLING:  
ES/SOW-0101 (REV 3) - PROCUREMENT & INSTALLATION OF ELECTRONIC SECURITY SYSTEMS  
ES/SOW-0102 (REV 6) - QUALITY CONTROL FOR PROCUREMENTS AND INSTALLATIONS OF ELECTRONIC SECURITY SYSTEMS  
ES/SOW-0110 (REV 1) - STRUCTURED CABLING SYSTEMS FOR ELECTRONIC SECURITY INSTALLATIONS  
ES/SPC - 0006 (REV 2) - SPECIFICATION CONDUIT, SPACE AND CONDUIT POWER REQUIREMENTS FOR SECURITY SYSTEMS FOR USE IN FEDERAL CORRECTIONAL INSTITUTIONS  
ES/SPC0101 (REV 2) - PUBLIC ADDRESS SYSTEM FOR USE IN FEDERAL CORRECTIONAL INSTITUTIONS

3A PROVIDE AND INSTALL TWO NEW PUBLIC ADDRESS SPEAKERS ON THIS POLE. ROUTE CONDUCTORS WITHIN POLE. PROVIDE OPENING IN POLE AT SPEAKER LOCATION TO ALLOW CONDUCTOR CONNECTION TO MOUNTED SPEAKER. SEAL POLE OPENING WEATHER-TIGHT. COORDINATE FINAL INSTALLED POSITION OF SPEAKER ON SITE WITH CSC REPRESENTATIVE.

3B PROVIDE AND INSTALL ONE NEW PUBLIC ADDRESS SPEAKER ON THIS POLE. REFER TO ELECTRICAL KEY NOTE "3A" ABOVE FOR CONNECTION.

4 PROVIDE AND INSTALL NEW PUBLIC ADDRESS SPEAKERS ON BUILDING FACE. INSTALL AT 6096mm (20'-0") ABOVE GRADE. PROVIDE (2C #14 AWG) AND REQUIRED RIGID STEEL CONDUITS WITHIN BUILDING FOR CONNECTION OF SPEAKERS TO NEW PUBLIC ADDRESS AMPLIFIER IN BUILDING #51. REPROGRAM THE PUBLIC ADDRESS SYSTEM AS REQUIRED TO IDENTIFY NEW SPEAKER.

4B WALL MOUNT SPEAKER AS PER KEY NOTE 4 ABOVE EXCEPT INSTALL AT TOP OF EXTERIOR WALL.

5 INSTALL AND CONNECT EXISTING RELOCATED LIGHTING CONTACTOR FOR EXTERIOR LIGHTS IN BUILDING #30. CONNECT CONTACTOR TO THE ADVANCED ENERGY MANAGEMENT (AEM) SYSTEM IN MECHANICAL ROOM AT THE TOP OF BUILDING #51. PROVIDE NEW 20A-1P BREAKER IN CIRCUIT #25 IN EXISTING EMERGENCY PANEL "EA" FOR SITE LIGHTING. PROVIDE CONDUCTORS TO DUCT BANK FROM BUILDING #51 TO BUILDING #30 FOR INTERCONNECTION OF CONTROLLER TO CONTACTOR. REFER TO KEY NOTE 9 ON THIS PAGE. ROUTE CONDUCTORS FROM BUILDING #30 TO EXTERIOR LIGHTS AS INDICATED ON PLAN. ALL NEW AND RELOCATED POLE LIGHTS ARE TO BE CONTROLLED BY THIS CONTACTOR AND CONTROLLER.

6 NEW POLE MOUNT LIGHTING AND LIGHTING BEING RELOCATED AND REINSTALLED FROM EXISTING POLES SHALL BE INSTALLED AT 9144mm (30'-0") ABOVE GRADE AND WITH A MINIMUM TILT OF 15 DEGREES. PROVIDE ALL REQUIRED BRACKETS AND / OR MOUNTINGS REQUIRED.

6A WHERE EXISTING LIGHTING IS BEING RELOCATED FROM ONE POLE AND REINSTALLED ON ANOTHER EXISTING POLE, EXISTING MOUNTING HARDWARE SHALL BE REMOVED FROM BOTH POLES. PROVIDE COVERS AND MAKE ALL REMAINING OPENINGS WEATHER-TIGHT.

6B PROVIDE AND INSTALL NEW LIGHTING AND 9144mm (30'-0") LIGHTING POLE. ROUTE UNDERGROUND CONDUCTORS INTO PVC SLEEVES IN NEW POLE BASE. PROVIDE OPENING AT TOP OF POLE AND INSTALL CSA 4X RATED JUNCTION BOX TO ALLOW FOR TRANSITION OF CONDUCTORS TO LIQUID TIGHT FLEX WITHIN JUNCTION BOX FOR CONNECTION TO LIGHTING. SEAL POLE OPENING WEATHER-TIGHT. PROVIDE ADJUSTABLE SLIP FITTER MOUNTS IF REQUIRED. COORDINATE FINAL INSTALLED POSITIONING OF LIGHTING ON SITE WITH CSC REPRESENTATIVE.

6C PROVIDE AND INSTALL NEW LIGHTING ON EXISTING POLE. ROUTE UNDERGROUND DIRECT BURIED TECK90 CONDUCTORS TO POLE BASE AND PROVIDE RGS CONDUIT SIZED TO ACCOMMODATE CONDUCTORS FROM TIE-IN TO POLE IF NECESSARY FOR CONNECTION TO POLE BASE. PROVIDE ANY REQUIRED CSA 4X RATED BOXES OR FITTINGS. REFER TO DETAIL 4 ON DRAWING E-103.

7 REMOVE TWO EXISTING LIGHT FIXTURES FROM THE BOTTOM BRACKET OF THIS POLE FOR RELOCATION TO EXISTING POLES ON THE NORTH SIDE OF YARD. RECONNECT TWO REMAINING LIGHT FIXTURES ON THE TOP BRACKET OF THIS POLE TO NEW LIGHTING CIRCUIT FROM BUILDING #30 AND PROVIDE NEW PUBLIC ADDRESS SPEAKER ON THIS POLE. REFER TO KEY NOTE 3B FOR SPEAKER.

8 RE-INSTALL ON THIS POLE, ONE RELOCATED LIGHTING FIXTURE FROM EXISTING POLE IN SOUTH END OF YARD. PROVIDE NEW MOUNTING BRACKETS AS REQUIRED TO INSTALL LIGHT ON THIS POLE AT 9144mm (30'-0") ABOVE FINISHED GRADE.

9 PROVIDE AND INSTALL NEW CONCRETE ENCASED DUCT BANK FROM BUILDING #51 TO BUILDING #30 FOR THE INSTALLATION OF THE CONDUITS AND SERVICES OUTLINED BELOW:  
  
PROVIDE AND INSTALL 600/347V-60A CIRCUIT BREAKER IN PANEL "EB" IN ELECTRICAL ROOM OF BUILDING #51. PROVIDE AND INSTALL 4C#6 TECK 90 IN ROOF SPACE AND DOWN BUILDING EXTERIOR TO DUCT BANK. INSTALL IN 53mm RIGID PVC IN DUCT BANK AND ROUTE TO ELECTRICAL EQUIPMENT LOCATION IN BUILDING #30.  
  
PROVIDE CONDUCTORS IN 53mm C OR TECK90 FOR CONTROL OF OUTDOOR POLE MOUNTED YARD LIGHTING AND TEMPORARY FENCE. MOUNTED LIGHTING FROM THE RELOCATED LIGHTING CONTROLLER IN BUILDING #51 TO CONTACTOR IN BUILDING #30. ROUTE IN ROOF SPACE DOWN EXTERIOR WALL TO DUCT BANK TO BUILDING #30 AND THEN ROUTE TECK90 CONDUCTORS TO YARD LIGHTS.  
  
PROVIDE AND INSTALL NEW 53mm PVC CONDUIT AND CABLING FROM P.A. 250 AMPLIFIER IN BUILDING #51 FOR PUBLIC ADDRESS SPEAKERS ON BUILDING #30 AND ON EXTERIOR POLES. ROUTE FROM AMPLIFIER LOCATION TO OUTSIDE WALL OF BUILDING #51 AND INTO DUCT BANK TO BUILDING #30. PROVIDE A WIRING DIAGRAM IN THE INSTALLATION SECTION OF THE MAINTENANCE MANUAL TO DETAIL CONNECTION TERMINATIONS AND WIRE ROUTING.  
  
PROVIDE 2 SPARE CONDUITS IN DUCT BANK (1-53mm and 1-103mm) FROM COMMUNICATION ROOM IN BUILDING #51 TO BUILDING #30. ROUTE IN ROOF SPACE FROM COMMUNICATION ROOM AND DOWN BUILDING FACE TO DUCT BANK.  
  
PRIOR TO INSTALLATION OF ADDITIONAL LUMINAIRES ON EXISTING POLES THE CONTRACTOR SHALL VERIFY STRUCTURAL CONDITION OF POLES WITH ORIGINAL POLE MANUFACTURER. EXISTING POLE MOUNTED LIGHT FIXTURE IS ORIGINALLY FED FROM BUILDING #10. PROVIDE NEW CIRCUIT FROM EXISTING 64 CIRCUIT PANEL IN BUILDING #30 FOR RECONNECTION OF THIS LIGHT. LIGHTING CONTROLLED BY CONTROLLER IN BUILDING #51. PROVIDE NEW CONDUCTORS AND TRENCHING NECESSARY FOR RECONNECTION. COORDINATE ON SITE WITH CSC REPRESENTATIVE.  
  
INSTALL WALL PACK AT 4572mm (15'-0") ABOVE GRADE. CONNECT TO EXTERIOR LIGHTING CIRCUIT AND CONTROLS.

NOTE:  
EXISTING LOCATIONS OF UNDERGROUND CONDUCTORS AND CABLING WITHIN THIS COMPOUND AREA HAVE NOT BEEN VERIFIED. LOCATIONS INDICATED ON PLANS ARE BASED ON DRAWINGS PROVIDED BY OTHERS. COORDINATE AND VERIFY LOCATIONS OF ANY ELECTRICAL OR COMMUNICATION SERVICES ON SITE WITH CSC REPRESENTATIVE PRIOR TO INSTALLATION OF NEW SYSTEMS.

### BUILDING NUMBER KEY

8	INMATE HOUSING UNIT
30	INMATE CANTEN
51	INMATE HOUSING UNIT

### ABBREVIATIONS

TYP	TYPICAL
SIM	SIMILAR
UG	UNDERGROUND
CW	COMPLETE WITH
A.F.G.	ABOVE FINISHED GRADE
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION

NOTE:  
ELECTRICAL/ELECTRONIC SERVICES TO ALL SYSTEMS AND ALL AREAS OF THE SITE SHALL NOT BE INTERRUPTED BY THIS WORK WITHOUT PRIOR WRITTEN APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

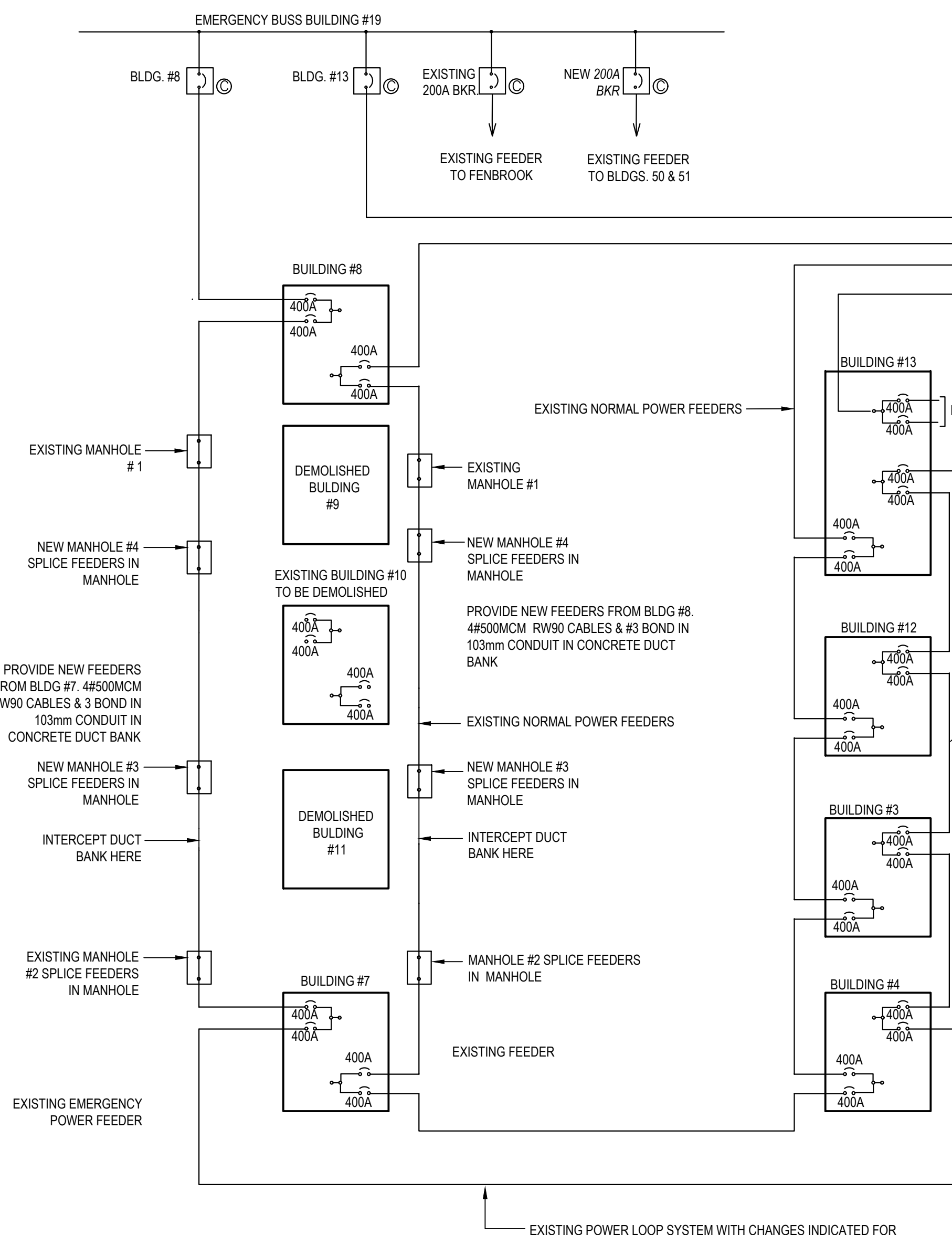
CAPPING, TERMINATING, RELOCATION OR INSTALLATION OF NEW ELECTRICAL, TELECOMMUNICATION, SECURITY, CCTV, LIFE SAFETY AND PUBLIC ADDRESS RELATED SYSTEMS WHICH SERVE BUILDING 10 AND OTHER BUILDINGS VIA BUILDING 10, SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF BUILDING 10 DEMOLITION.

PROOF OF SYSTEM FUNCTIONALITY OF ALL AFFECTED SYSTEMS SHALL BE PROVIDED TO CSC PRIOR TO ANY BUILDING DEMOLITION.

COORDINATE WITH OTHER TRADES ON SITE. REFER TO ALL ELECTRICAL DOCUMENTS IN THIS PACKAGE FOR AFFECTED SYSTEMS.

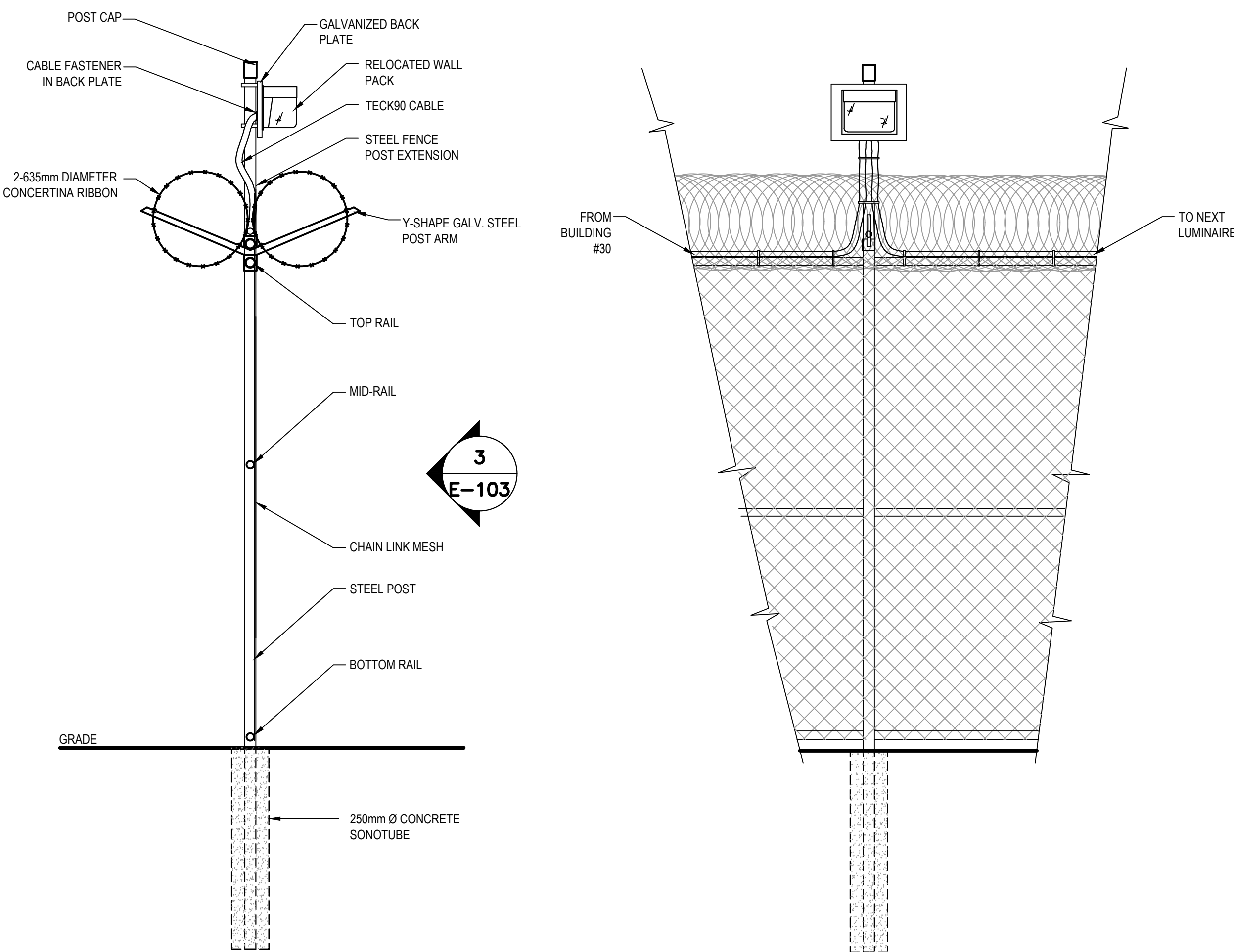
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revisions		date
project	SPRINGHILL INSTITUTION DEMOLITION BUILDING NO. 10 SPRINGHILL, NS	project
drawing		design
designed SDB		conçu
date	JANUARY 2017	
drawn	AHC	dessiné
date	JANUARY 2017	
approved SDB		approuvé
date	JULY 27, 2017	
Tender		Submission
IPWSC Project Manager	Administrateur de projets TPSCC	
project number	R.083508.001	no. du projet
drawing no.	E-102	no. du dessin





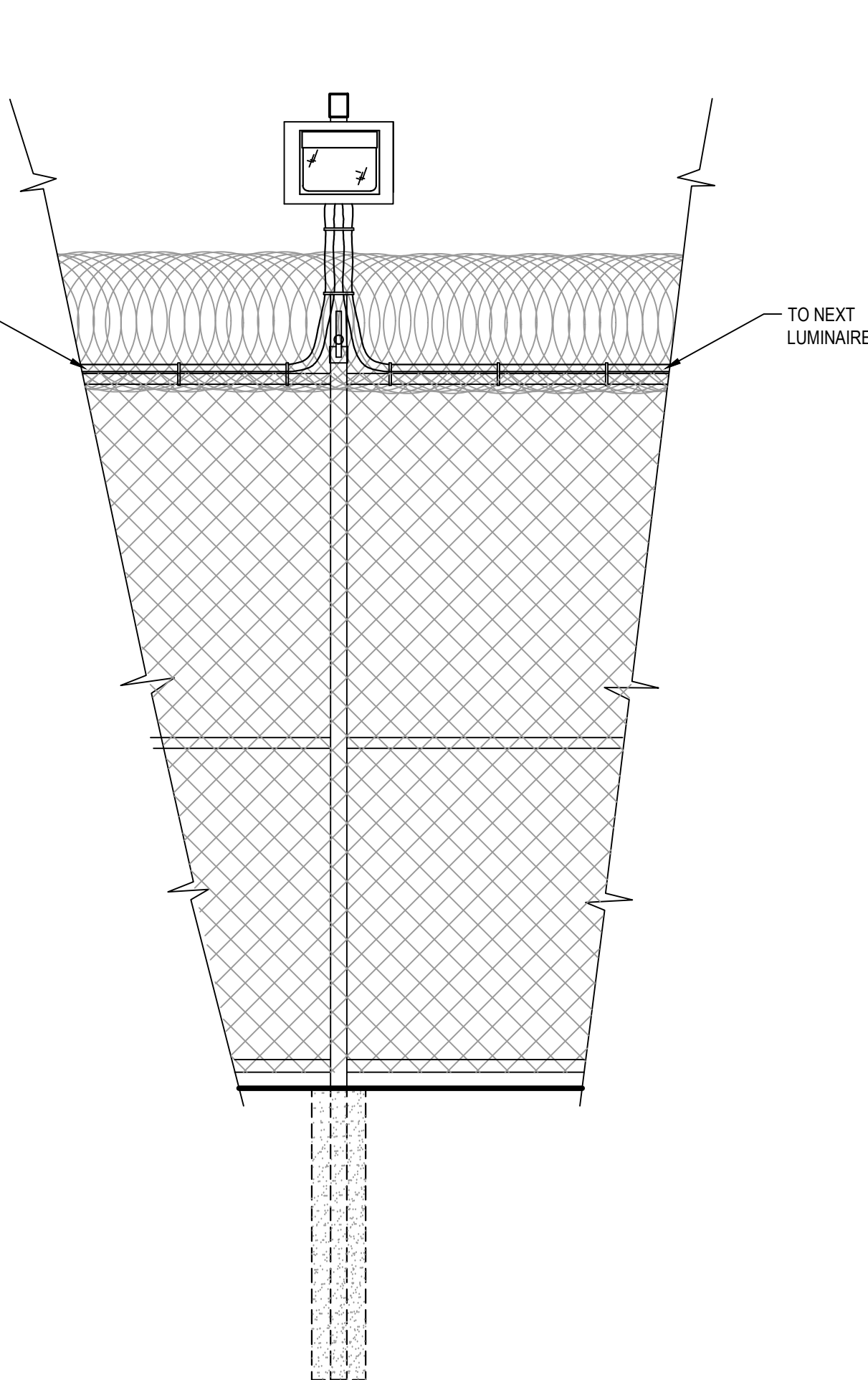
DETAIL - LOOP SYSTEM SINGLE LINE DIAGRAM  
N.T.S.

1  
E-103



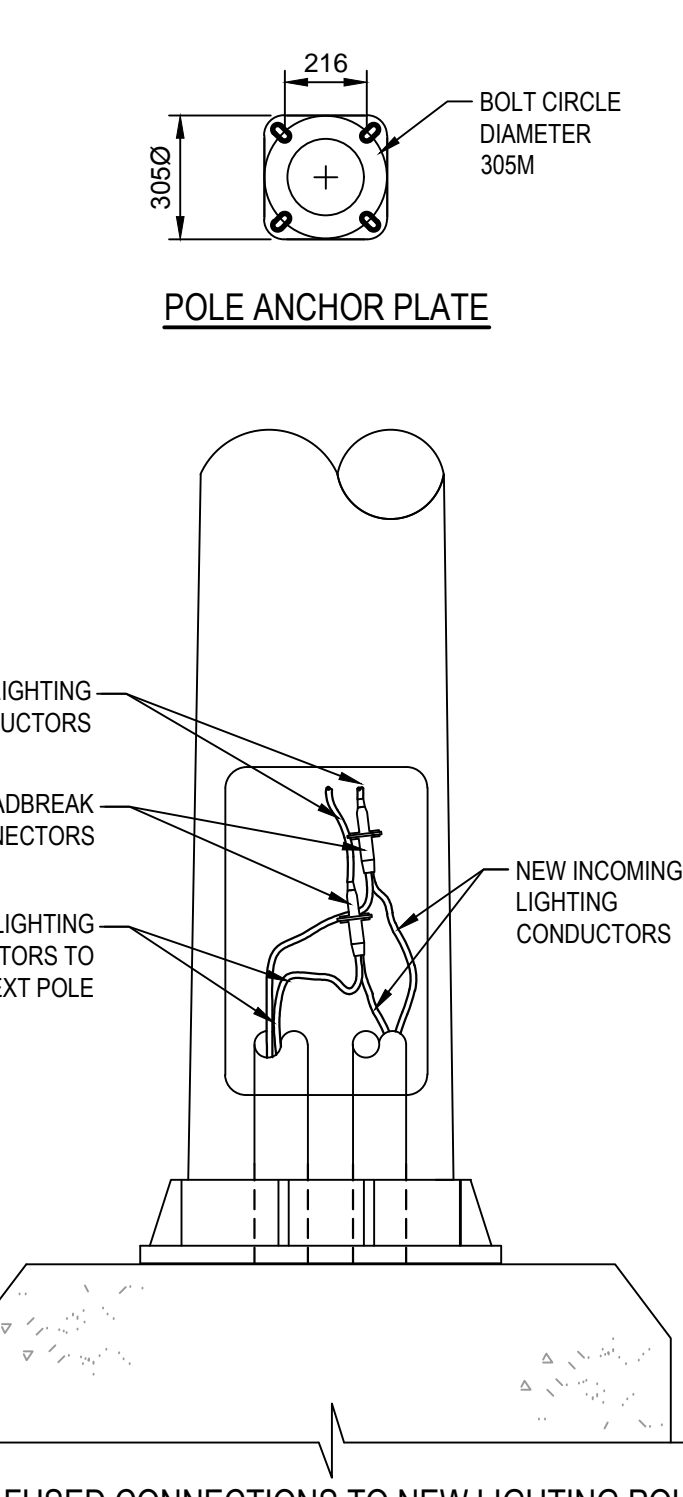
DETAIL - TEMPORARY LIGHTING  
N.T.S.

2  
E-101



DETAIL - TEMPORARY LIGHTING  
N.T.S.

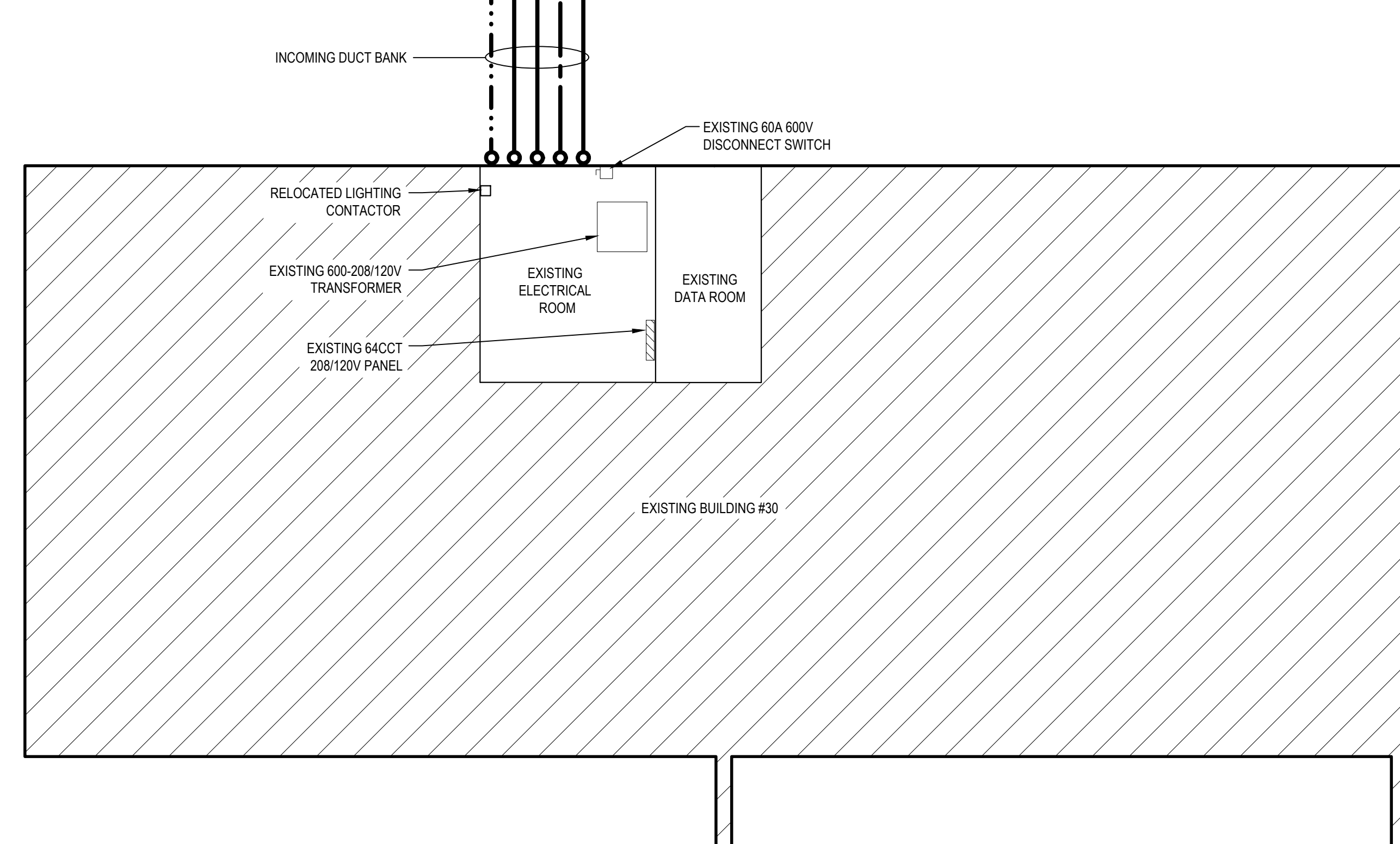
3  
E-101



NOTE:  
A. THIS DETAIL IS INTENDED TO INDICATE TYPICAL FUSING CONNECTIONS ON INCOMING FEEDERS AND TYPICAL THROUGH ROUTING OF LIGHTING CIRCUITS AT LIGHTING POLES.  
B. COORDINATE BASE BOLT CIRCLE DIAMETER WITH STRUCTURAL TRADES PRIOR TO CONCRETE FORMING OF NEW POLE BASES TO ENSURE INSTALLATION CLEARANCE.  
C. WHERE RGS CONDUIT IS BEING INSTALLED ON EXISTING POLES, INSTALL ALL CONDUIT SLEEVES AND FITTINGS ON THE OUTSIDE OF SECURITY FENCE.

DETAIL - CONNECTIONS IN POLES  
N.T.S.

4  
E-102



BUILDING #30 ELECTRICAL & DATA ROOMS  
N.T.S.

**ELECTRICAL KEY NOTES**

1 PROVIDE MOUNTING HARDWARE INCLUDING DEVICE BOXES, FASTENERS, BACK PLATES, POST TOPS AND CONDUCTORS FOR TEMPORARY INSTALLATION OF RELOCATED WALL PACKS ON FENCING DURING DEMOLITION OF BUILDING #10 AND SITE SERVICE WORK. ROUTE 2C#10 TECK90 CABLE FROM ELECTRICAL SERVICE IN BUILDING #30. INSTALL ON TOP RAIL OF FENCE WITHIN CONCERTINA WIRE. RUN CONDUCTORS IN RGS CONDUIT WHEREVER CONDUCTORS ARE EXPOSED TO POTENTIAL VANDALISM. REFER TO DRAWING E-102 FOR CONTROL NOTES.

2 PROVIDE RGS CONDUIT SLEEVES SIZED TO ACCOMMODATE CONDUCTORS FOR LIGHTING AND PIA SPEAKERS TO A DEPTH OF 150mm BELOW GRADE FOR THE INSTALLATION OF POLE FEEDERS TO EXISTING POLES. FASTENERS, LB FITTINGS OR BOXES SHALL BE CSA 4X RATED.

**Public Works and Government Services Canada** / **Travaux Publics et Services gouvernementaux Canada**

**Stantec**

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**ABBREVIATIONS**

TYP	TYPICAL
SIM	SIMILAR
UG	UNDERGROUND
CW	COMPLETE WITH
A.F.G.	ABOVE FINISHED GRADE
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION

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PROOF OF SYSTEM FUNCTIONALITY OF ALL AFFECTED SYSTEMS SHALL BE PROVIDED TO CSC PRIOR TO ANY BUILDING DEMOLITION.

COORDINATE WITH OTHER TRADES ON SITE. REFER TO ALL ELECTRICAL DOCUMENTS IN THIS PACKAGE FOR AFFECTED SYSTEMS.



0	ISSUED FOR TENDER	11/10/2017
revisions		date
project	project	
SPRINGHILL INSTITUTION DEMOLITION BUILDING NO. 10 SPRINGHILL, NS		
drawing	dessin	
ELECTRICAL DETAILS AND NOTES		
designed	RDM	conçu
date	JANUARY 2017	
drawn	HGA	dessiné
date	JANUARY 2017	
approved		approuvé
date		
Tender	Soumission	
PWGSC Project Manager	Administrateur de projets TPSCC	
project number	no. du projet	
R.083508.001		
drawing no.	no. du dessin	
E-103		