

UPPER CANADA DISTRICT SCHOOL BOARD

LOMBARDY PUBLIC SCHOOL

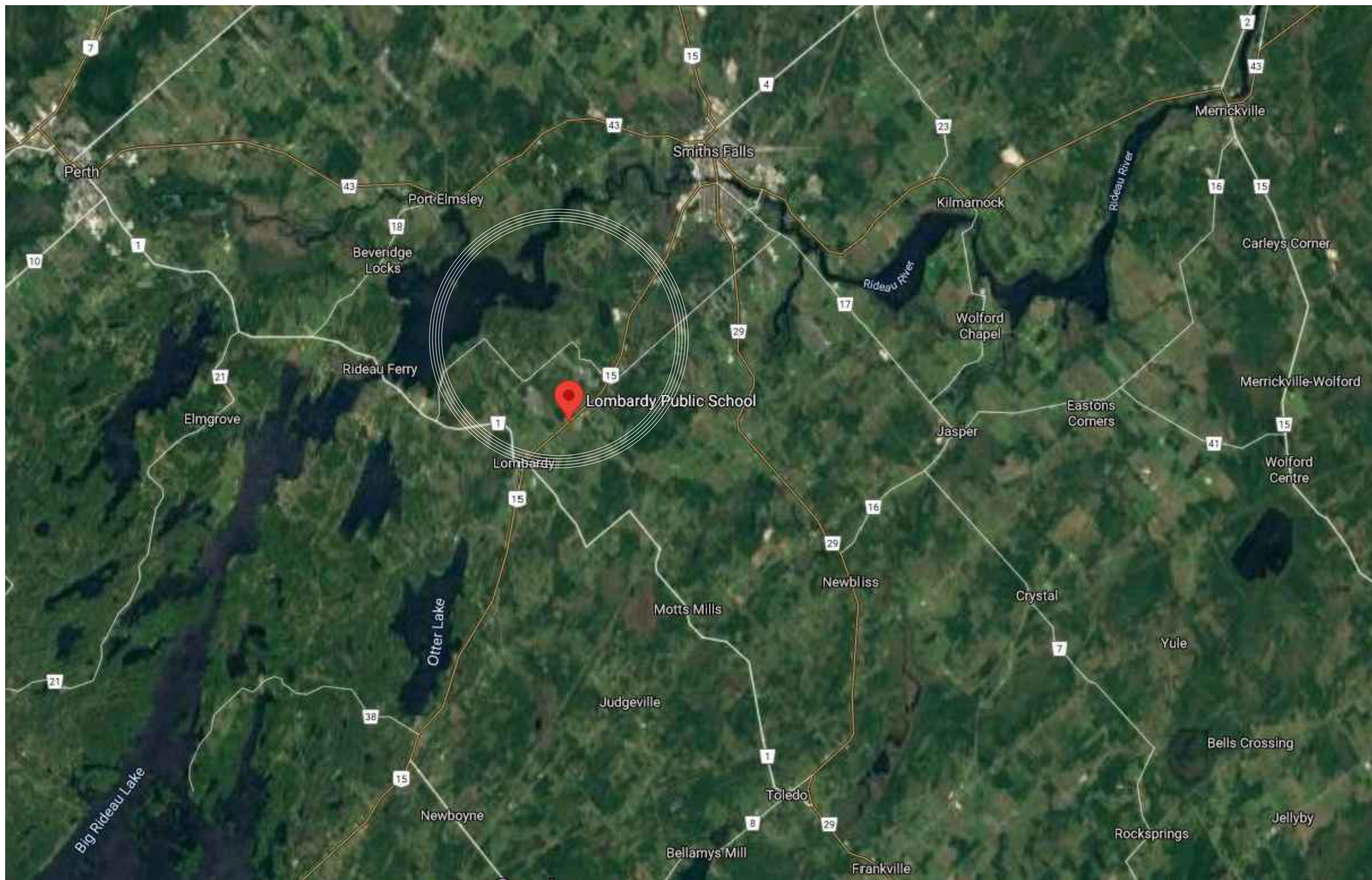
596 ON-15, Lombardy, ON. K0G 1L0

PARKING AND SITE WORKS

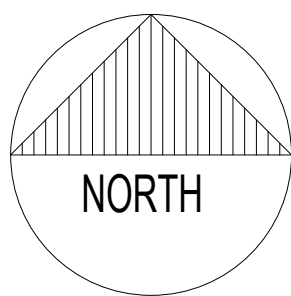
PHASE 2 - MECHANICAL & ELECTRICAL UPGRADES

ISSUED FOR TENDER

UCDSB Tender No. 26-058



KEY PLAN SITE LOCATION



ARCHITECTURE | 49 **WSP**

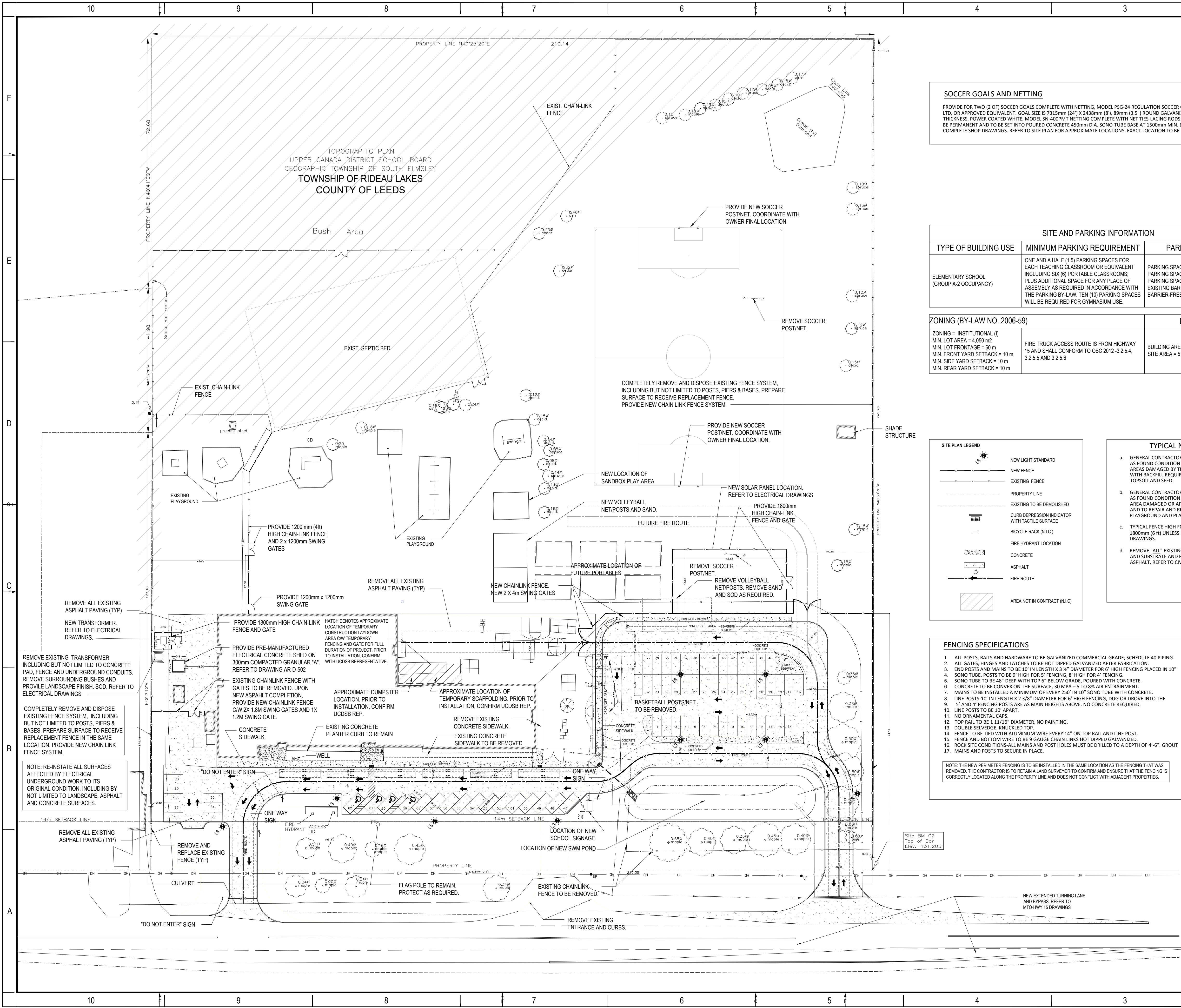
1345 ROSEMOUNT AVENUE
CORNWALL, ONTARIO, CANADA K6J 3E5
TEL: 613-933-5604 | FAX: 613-936-0335 | ARCHITECTURE49.COM

1345 ROSEMOUNT AVENUE
CORNWALL, ONTARIO, CANADA K6J 3E5
TEL: 613-933-5602 | FAX: 613-936-0335 | WWW.WSP.COM

AR-O-000

ISSUED FOR TENDER

DATE: 15 APRIL 2026

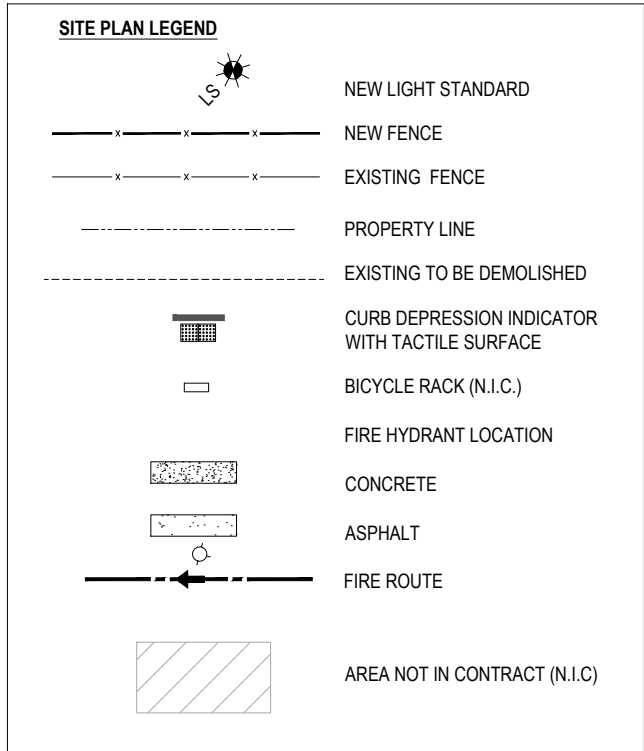


SOCCER GOALS AND NETTING

PROVIDE FOR TWO (2) OF SOCCER GOALS COMPLETE WITH NETTING, MODEL PSG-24 REGULATION SOCCER GOAL BY GYMNASIUM AND HEALTH LTD. OR APPROVED EQUIVALENT. GOAL SIZE 5'315mm (241" X 2438mm (8'1" 88mm (3'5") ROUND GALVANIZED STEEL 3.2mm (0.125") WALL THICKNESS, POWER COATED WHITE, MODEL SN-400PMT NETTING COMPLETE WITH NET TIES-LACING RODS. EACH SOCCER GOAL POST ARE TO BE PERMANENT AND TO BE SET INTO POURED CONCRETE 450mm DIA. SONO-TUBE BASE AT 1500mm MIN. BELOW GRADE, and PROVIDE COMPLETE SHOP DRAWINGS. REFER TO SITE PLAN FOR APPROXIMATE LOCATIONS. EXACT LOCATION TO BE DETERMINED ON SITE BY OWNER.

SITE AND PARKING INFORMATION		
TYPE OF BUILDING USE	MINIMUM PARKING REQUIREMENT	PARKING INFORMATION
ELEMENTARY SCHOOL (GROUP A-2 OCCUPANCY)	ONE AND A HALF (1.5) PARKING SPACES FOR EACH TEACHING CLASSROOM OR EQUIVALENT INCLUDING SIX (6) PORTABLE CLASSROOMS; PLUS ADDITIONAL SPACE FOR ANY PLACE OF ASSEMBLY AS REQUIRED IN ACCORDANCE WITH THE PARKING BY-LAW. TEN (10) PARKING SPACES WILL BE REQUIRED FOR GYMNASIUM USE.	PARKING SPACES EXISTING = 43 PARKING SPACES REQUIRED = 45 PARKING SPACES PROVIDED = 71 EXISTING BARRIER-FREE PARKING SPACES = 2 BARRIER-FREE PARKING SPACES PROVIDED = 4

ZONING (BY-LAW NO. 2006-59)	BUILDING AREA
ZONING = INSTITUTIONAL (I) MIN. LOT AREA = 4,050 m ² MIN. LOT FRONTAGE = 60 m MIN. FRONT YARD SETBACK = 10 m MIN. SIDE YARD SETBACK = 10 m MIN. REAR YARD SETBACK = 10 m	FIRE TRUCK ACCESS ROUTE IS FROM HIGHWAY 15 AND SHALL CONFORM TO OBC 2012-3.2.5.4, 3.2.5.5 AND 3.2.5.6 BUILDING AREA = 2,840 m ² SITE AREA = 51,575.3 m ²



- TYPICAL NOTES**
- GENERAL CONTRACTOR IS RESPONSIBLE TO REPAIR TO AS FOUND CONDITION ANY LANDSCAPE OR GRASSED AREAS DAMAGED BY THIS CONTRACT TO LEVEL FINISH WITH BACKFILL REQUIRED AND PROVIDE MIN. 100mm TOPSOIL AND SEED.
 - GENERAL CONTRACTOR IS RESPONSIBLE TO REPAIR TO AS FOUND CONDITION ANY CONCRETE OR ASPHALT AREA DAMAGED OR AFFECTED BY THIS CONTRACT, AND TO REPAIR AND REPAINT DAMAGED PLAYGROUND AND PLAYGROUND LINES.
 - TYPICAL FENCE HIGH FOR NEW CHAIN LINK FENCING IS 1800mm (6 ft) UNLESS NOTED OTHERWISE IN THE DRAWINGS.
 - REMOVE "ALL" EXISTING ASPHALT PAVING/SURFACES AND SUBSTRATE AND PREPARE TO RECEIVE NEW ASPHALT. REFER TO CIVIL DRAWINGS.

- FENCING SPECIFICATIONS**
- ALL POSTS, RAILS AND HARDWARE TO BE GALVANIZED COMMERCIAL GRADE; SCHEDULE 40 PIPING.
 - ALL GATES, HINGES AND LATCHES TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - END POSTS AND MAINS TO BE 10" IN LENGTH X 3 3/8" DIAMETER FOR 6" HIGH FENCING PLACED IN 10" SONO-TUBE. POSTS TO BE 9" HIGH FOR 5' FENCING, 8" HIGH FOR 4' FENCING.
 - SONO-TUBE TO BE 48" DEEP WITH TOP 6" BELOW GRADE, POURED WITH CONCRETE.
 - CONCRETE TO BE CONVEX ON THE SURFACE, 30 MPa - 5 TO 8% AIR ENTRAINMENT.
 - MAINS TO BE INSTALLED A MINIMUM OF EVERY 250' IN 10" SONO-TUBE WITH CONCRETE.
 - LINE POSTS 10" IN LENGTH X 2 3/8" DIAMETER FOR 6" HIGH FENCING, DUG OR DROVE INTO THE 5' AND 4' FENCING POSTS ARE AS MAIN HEIGHTS ABOVE. NO CONCRETE REQUIRED.
 - LINE POSTS TO BE 10' APART.
 - NO ORNAMENTAL CAPS.
 - TOP RAIL TO BE 1 1/2" DIA. NO PAINTING.
 - DOUBLE SELVEDGE, KNUCKLED TOP.
 - FENCE TO BE TIED WITH ALUMINUM WIRE EVERY 14" ON TOP RAIL AND LINE POST.
 - FENCE AND BOTTOM WIRE TO BE 9 GAUGE CHAIN LINKS HOT DIPPED GALVANIZED.
 - ROCK SITE CONDITIONS-ALL MAINS AND POST HOLES MUST BE DRILLED TO A DEPTH OF 4'-6". GROUT MAINS AND POSTS TO SECURE IN PLACE.

NOTE: THE NEW PERIMETER FENCING IS TO BE INSTALLED IN THE SAME LOCATION AS THE FENCING THAT WAS REMOVED. THE CONTRACTOR IS TO RETAIN A LAND SURVEYOR TO CONFIRM AND ENSURE THAT THE FENCING IS CORRECTLY LOCATED ALONG THE PROPERTY LINE AND DOES NOT CONFLICT WITH ADJACENT PROPERTIES.

1 SITE PLAN
AR-L-100 SCALE: 1:500

ARCHITECTURE 49

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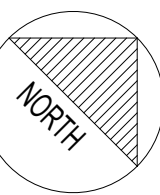
CONSULTANT - SUB CONSULTANT:



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TEL: 613-933-5602 | FAX: 613-936-0335 | WWW.WSP.COM

PROJECT NUMBER: C4000030-0005

SEAL:



CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

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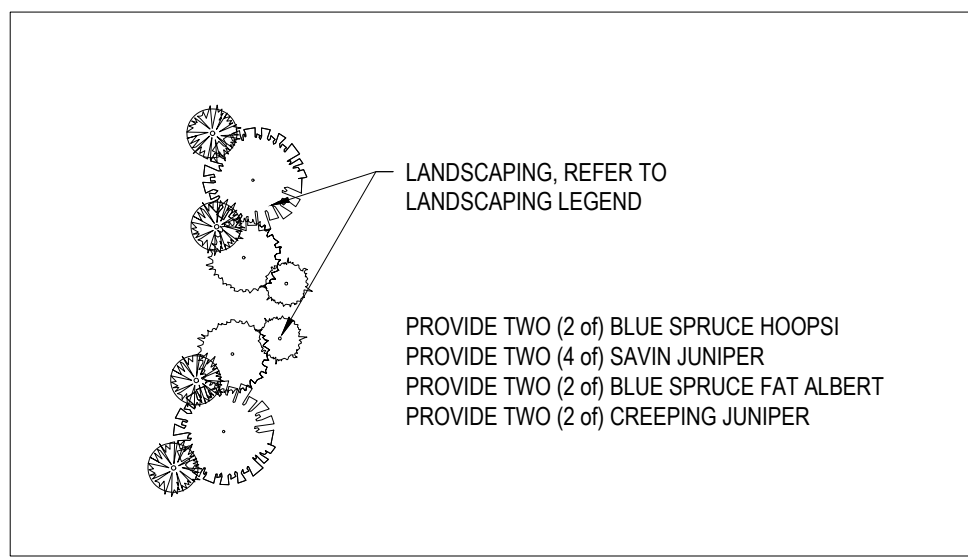
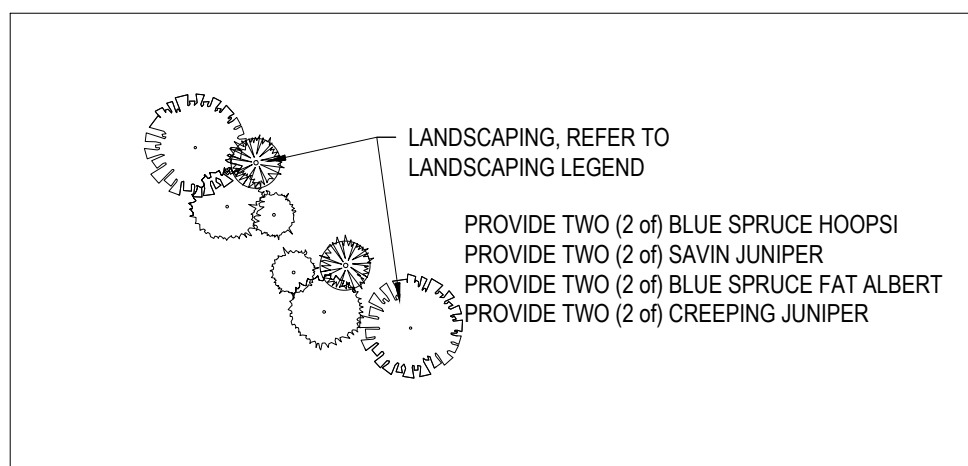
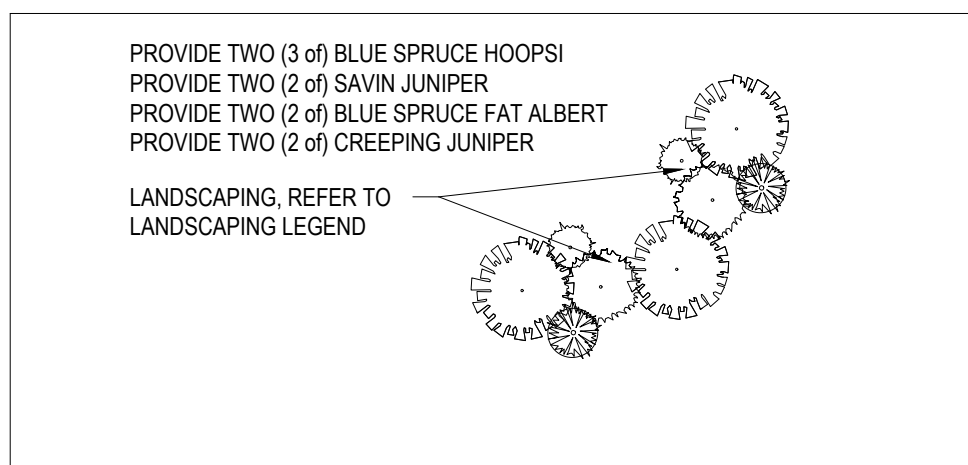
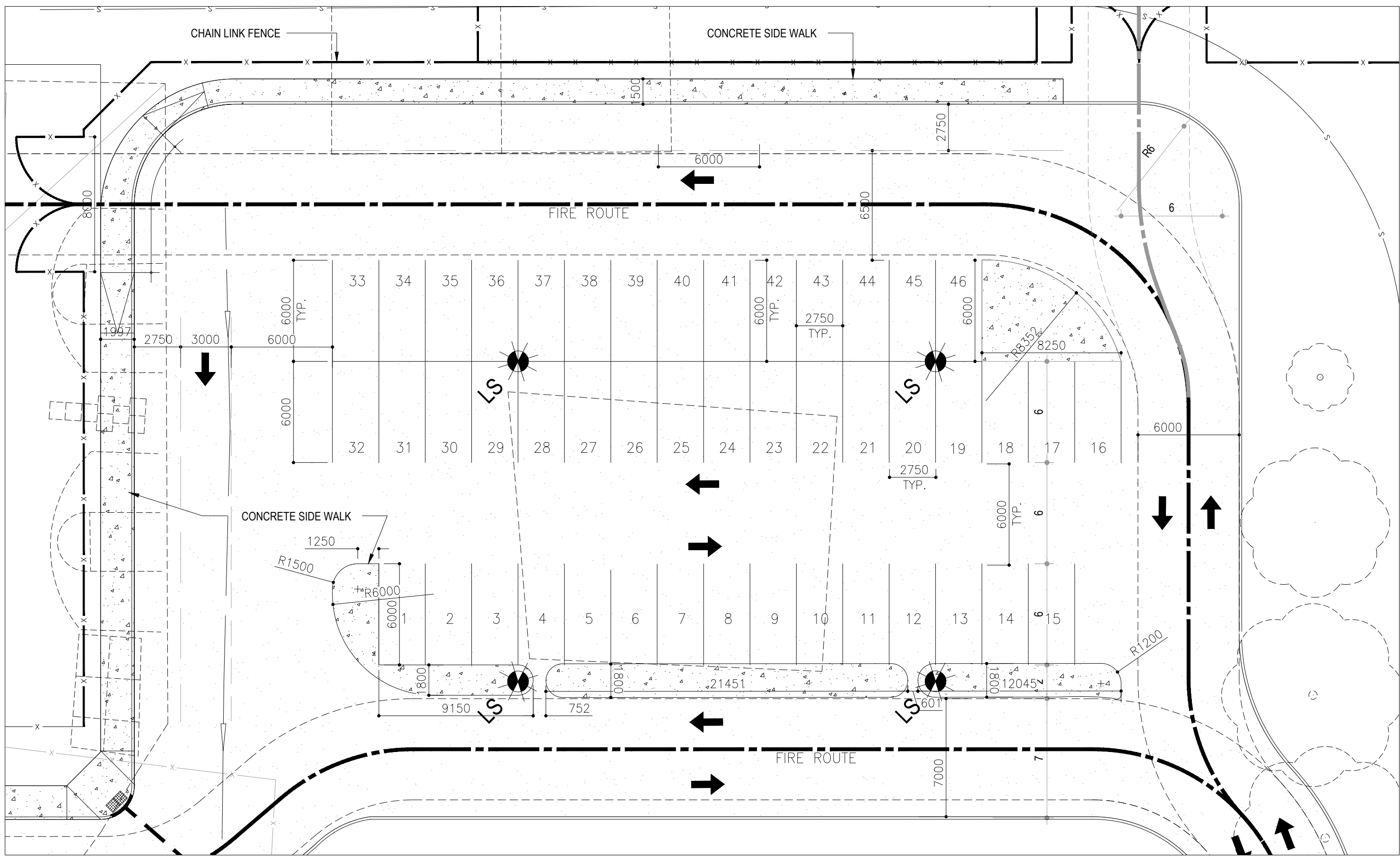
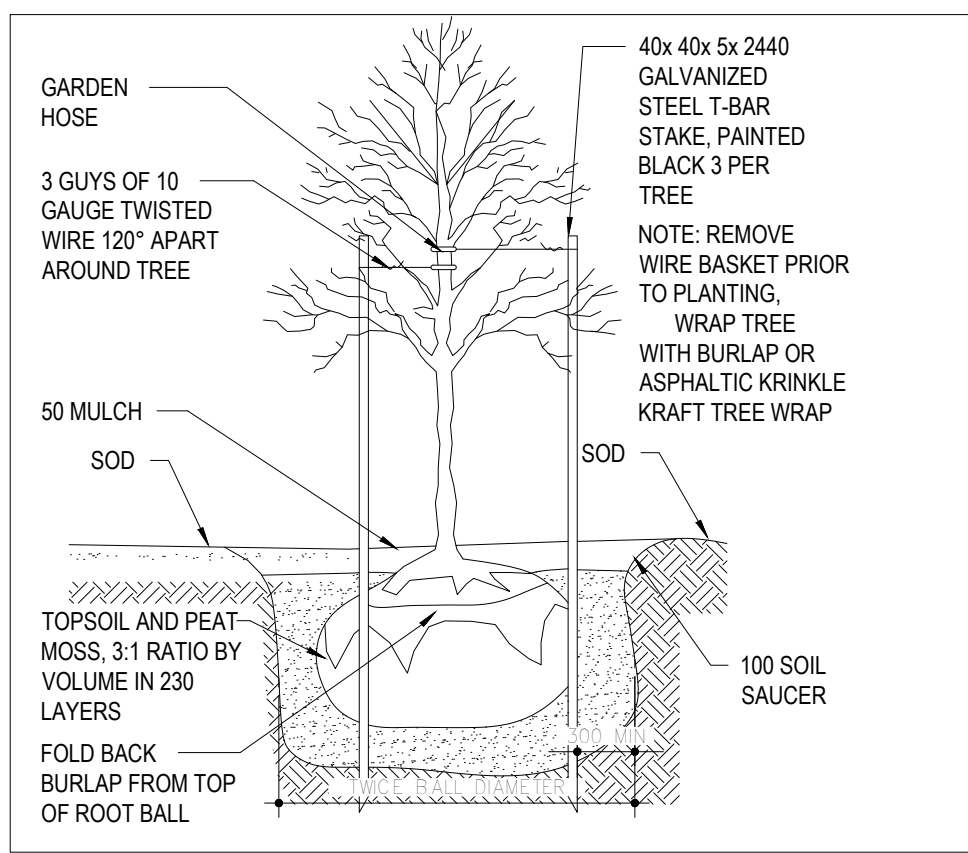
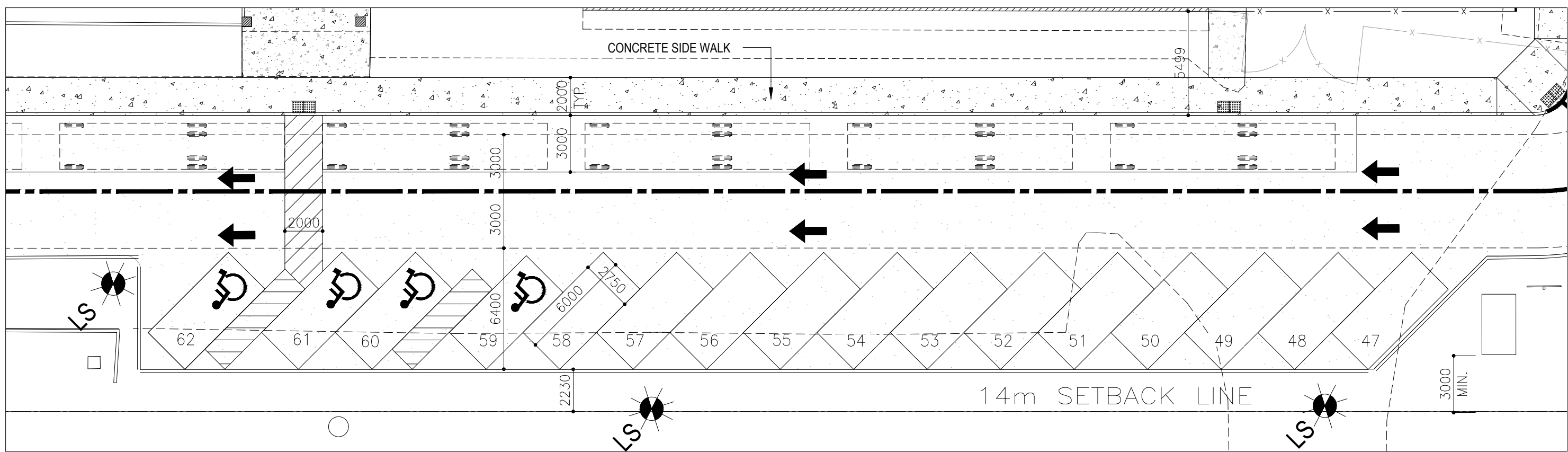
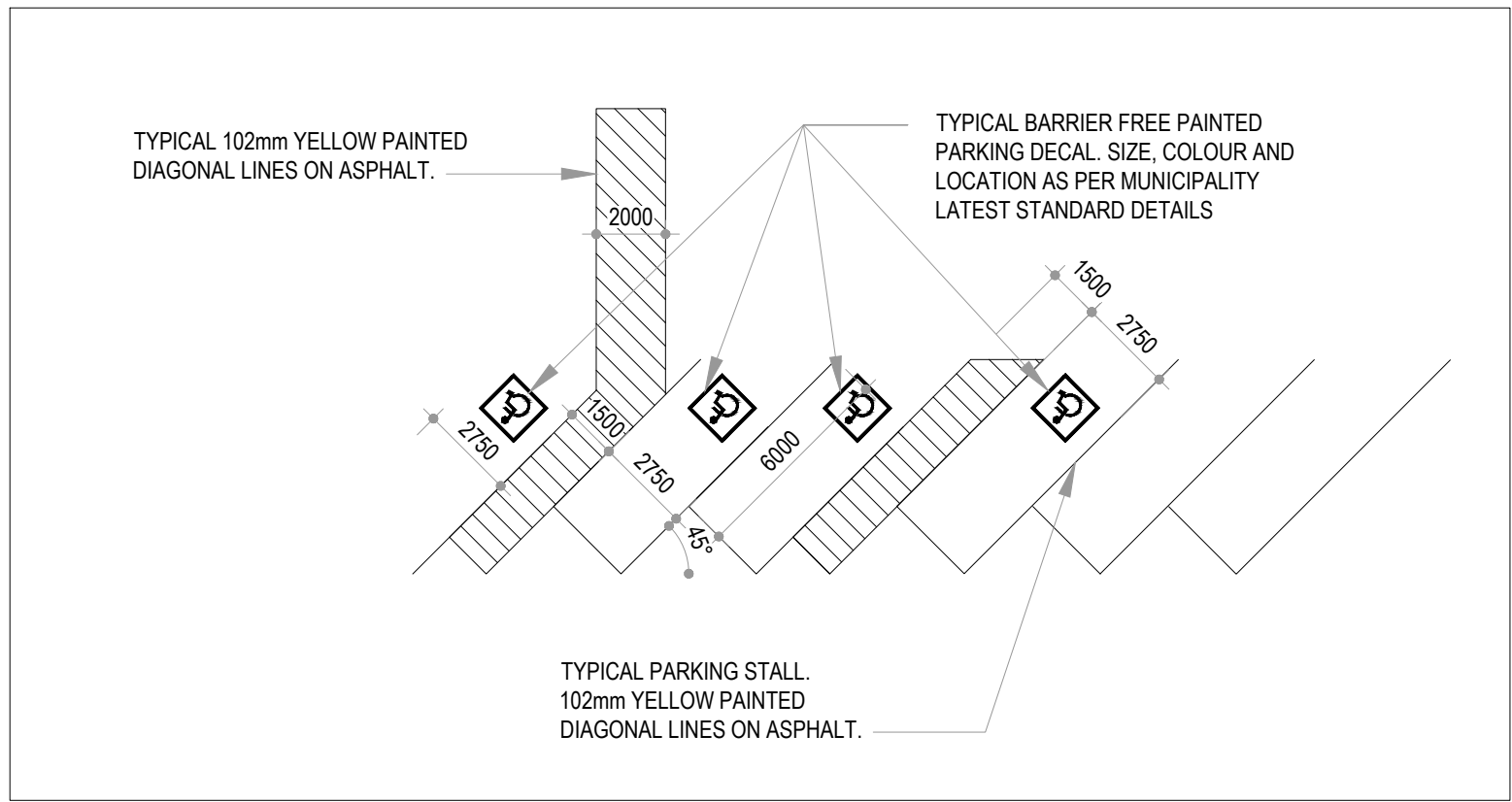
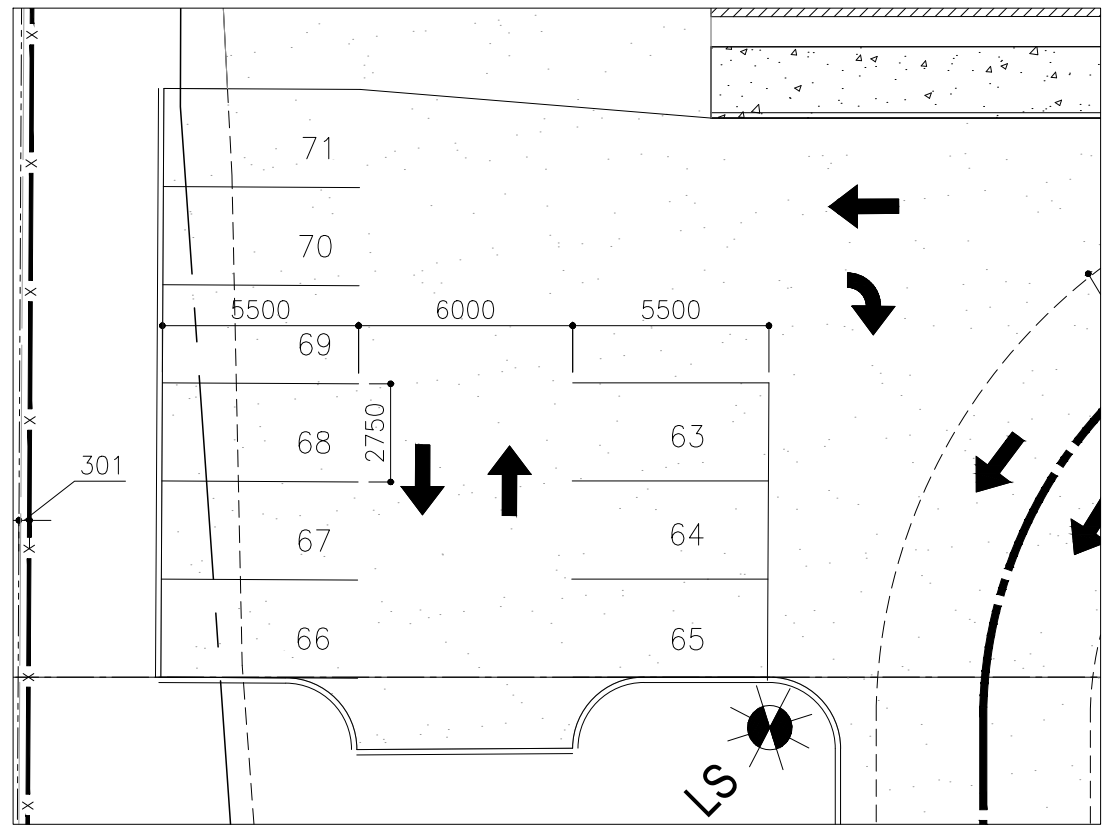
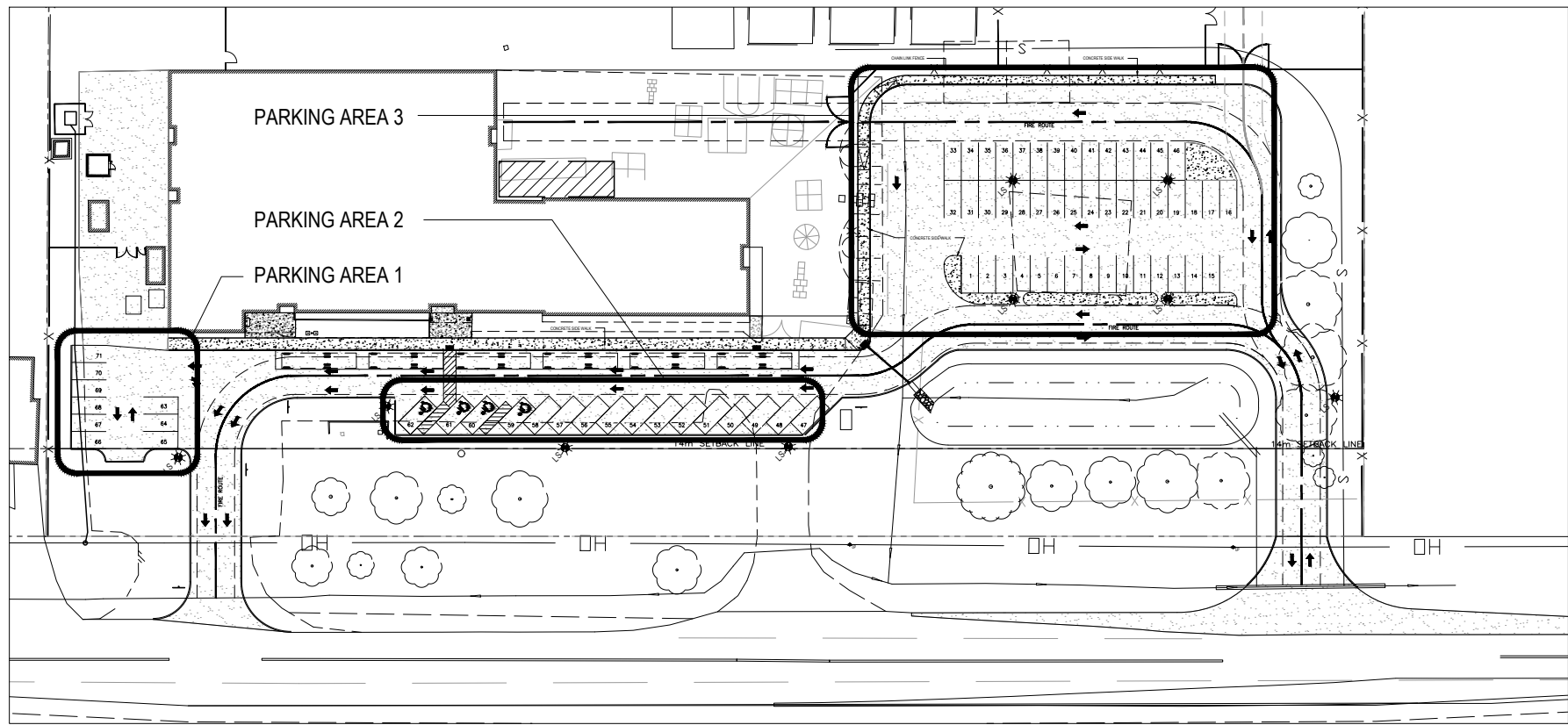
ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
4	2026/04/15	ISSUED FOR TENDER
3	2026/02/27	ISSUED FOR 90% REVIEW
2	2026/01/09	ISSUED FOR 60% REVIEW
1	2025/11/14	ISSUED FOR 30% REVIEW

IS	RE	DATE	DESCRIPTION
PROJECT NO:	209-00279-00	DATE:	15 APRIL 2026
ORIGINAL SCALE:	1:500	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	RL		
DRAWN BY:	RL		
CHECKED BY:	DM		
DISCIPLINE:	ARCHITECTURAL		
TITLE:	SITE PLAN		

SHEET NUMBER:	AR-L-100
SHEET #:	1 OF 1
ISSUE:	ISSUED FOR TENDER
DATE OF:	15 APRIL 2026

REV #
1



GENERAL NOTES

- REFER TO SITE PLAN FOR LOCATION OF LANDSCAPING. CONFIRM WITH OWNER EXACT LOCATIONS.
- THE LOCATION OF THE UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL BE PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
- STAKE PLANTING LOCATIONS AND RECEIVE APPROVAL OF LANDSCAPE ARCHITECT, PRIOR TO EXCAVATION OF ANY PLANTING PITS. NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CONSULTANT.
- WHERE CLAY IS ENCOUNTERED PROPER DRAINAGE MUST BE ENSURED IN TREE/SHRUB PITS, PRIOR TO PLANTING. HAVE METHOD APPROVED BY CONSULTANT.
- MAINTAIN POSITIVE SURFACE RUNOFF THROUGH ENTIRE CONSTRUCTION PERIOD.
- REINSTATE ALL AREAS AND ITEMS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.

LANDSCAPE LEGEND

BLUE SPRUCE 'HOOPSII' 175cm, WIRE BASKET	SAVIN JUNIPER 'CALGARY CARPET' 100cm, POT
BLUE SPRUCE 'FAT ALBERT' 200cm, WIRE BASKET	CREeping JUNIPER 'WILTONII' 50cm, POT
COMMON HACKBERRY 'CELTIS OCCIDENTALIS' 50mm CALIPER, WIRE BASKET	BRISTLECONE PINE 'PINUS ARISTATA' 150cm HT., WIRE BASKET
APOLLO SUGAR MAPLE 'ACER SACCHARUM' 70mm CALIPER, WIRE BASKET	WHITE SPRUCE 'PICEA GLAUCA' 200cm HT.

REFER TO TYPICAL PLANTING DETAILS ON A1.1

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PROJECT NUMBER: CAD00380-0005

SEAL

ONTARIO ASSOCIATION
OF
ARCHITECTS
2025-04-15
BARRY J. WILSON
LICENCE
8171

NORTH

CLIENT:

**UPPER CANADA DISTRICT
SCHOOL BOARD**

CLIENT REF. #

PROJECT:

**LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES**

KEY PLAN

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NO.	DATE	DESCRIPTION
2	2026/04/15	ISSUED FOR TENDER
1	2025/11/14	FOR 30% REVIEW

PROJECT NO: 209-00279-00

DATE: 15 APRIL 2026

ORIGINAL SCALE: AS NOTED

DESIGNED BY: RL

DRAWN BY: RL

CHECKED BY: DM

DISCIPLINE: ARCHITECTURAL

TITLE: SITE DETAILS

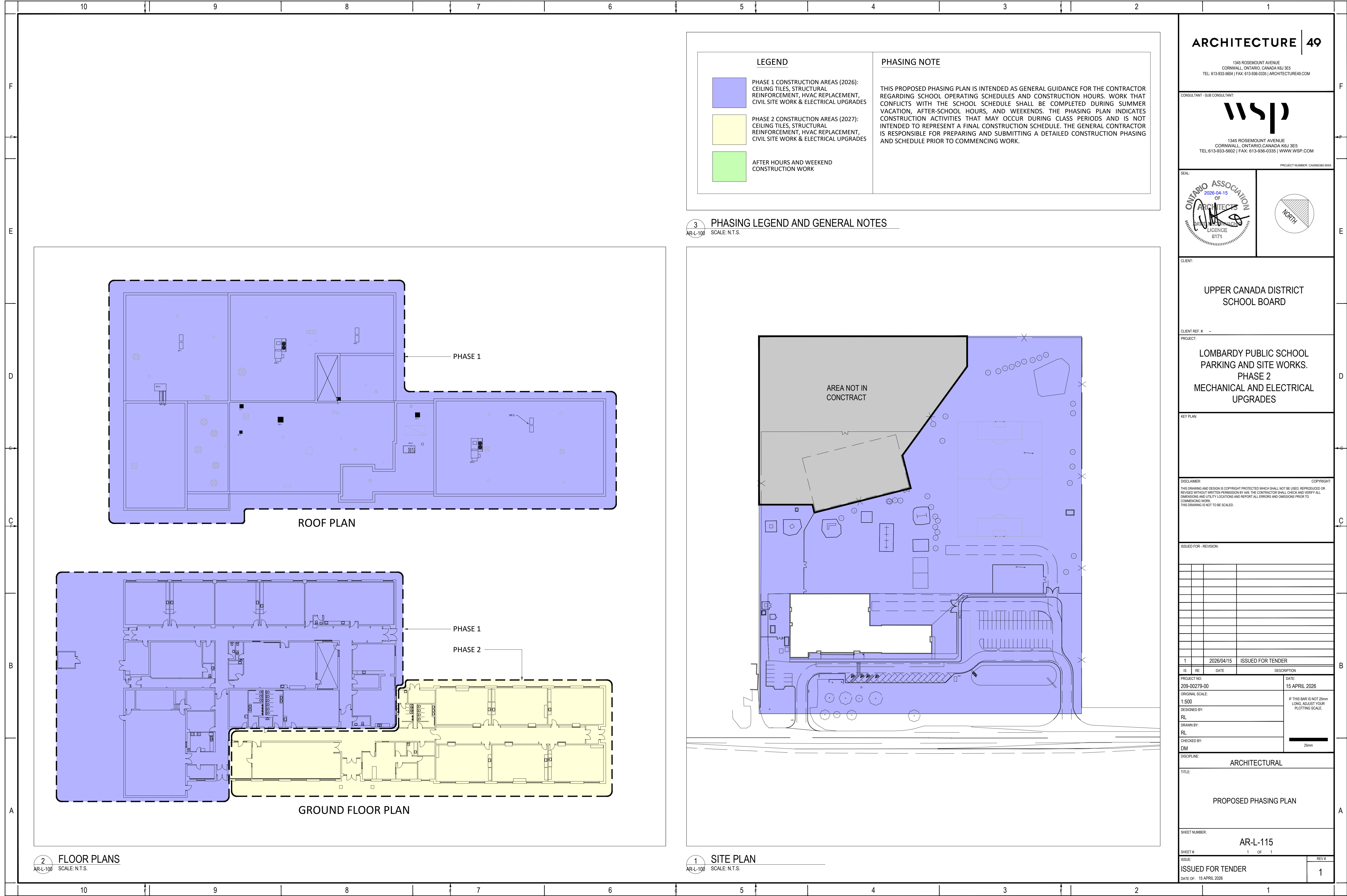
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SHEET # 1 OF 1

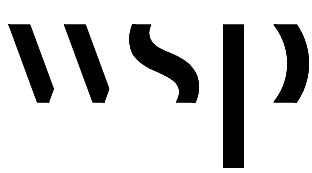
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DATE OF: 15 APRIL 2026

REV # 1

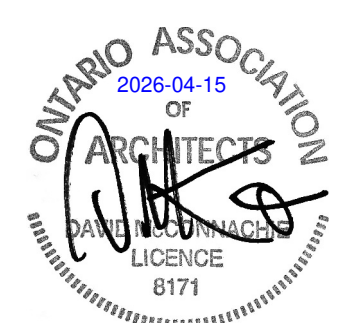


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PROJECT NUMBER: C4000380.0005

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PROJECT:

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PARKING AND SITE WORKS.
PHASE 2
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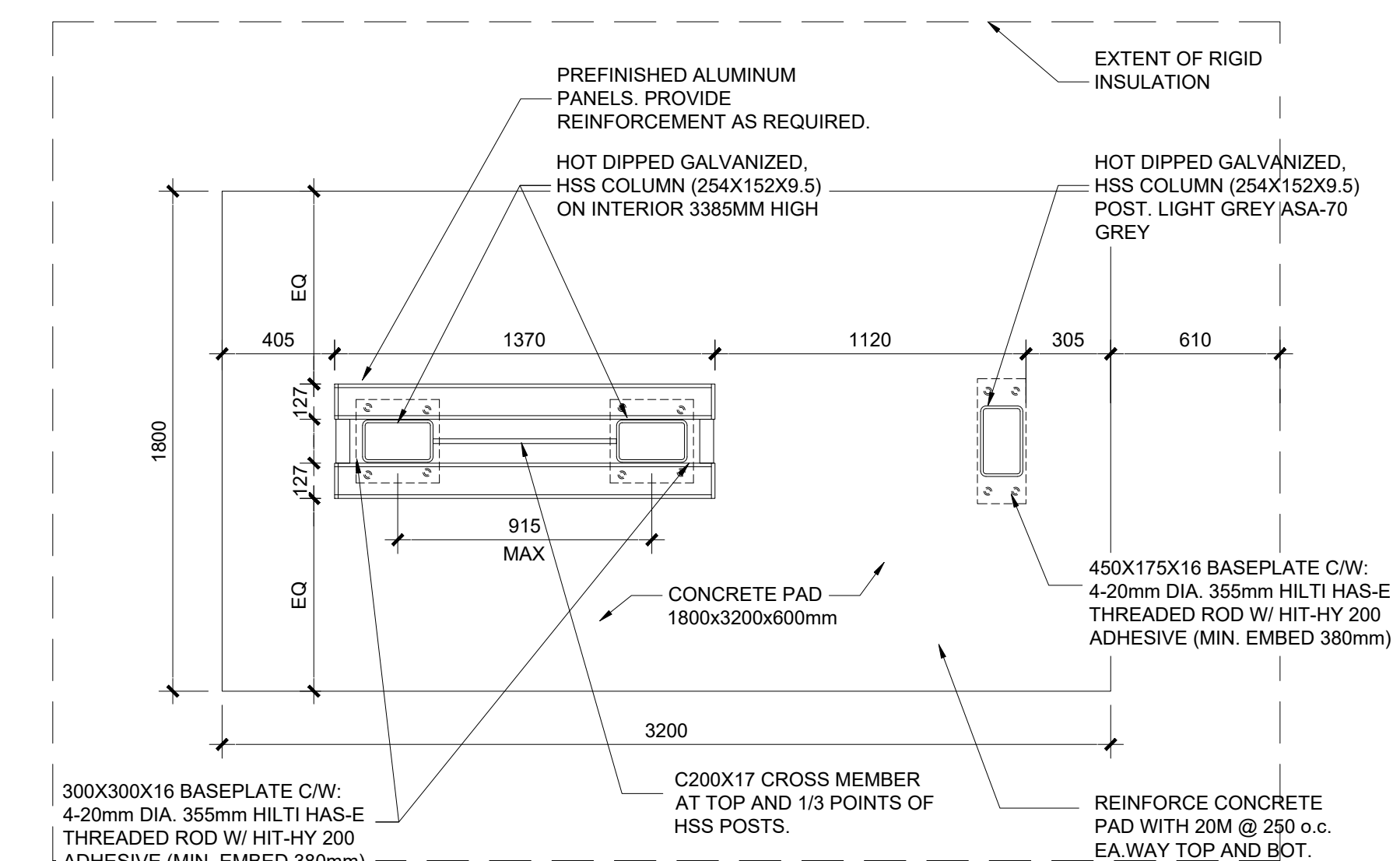
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3	2022/10/11	ISSUED FOR SPC PRE-CONSULTATION
2	2021/05/20	FOR 33% REVIEW
1	2021/02/16	ISSUED TO UCDSB FOR SPC REVIEW

IS	RE	DATE	DESCRIPTION
PROJECT NO:	209-00279-00	DATE:	15 APRIL 2026
ORIGINAL SCALE:	1:20	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTING SCALE.	
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DRAWN BY:	KMS		
CHECKED BY:	AB		
DISCIPLINE:	ARCHITECTURAL		
TITLE:	ARCHITECTURAL		

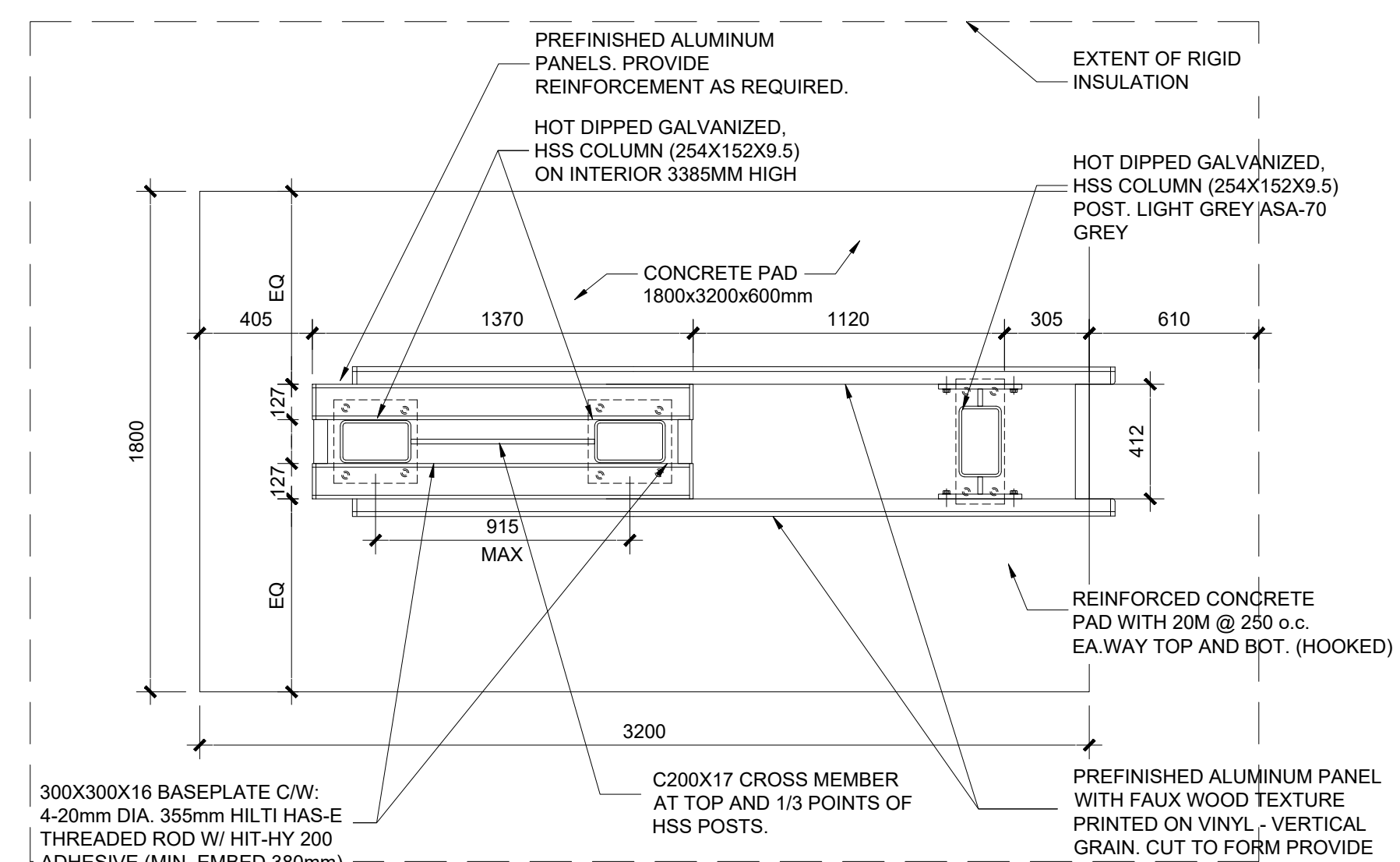
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AR-L-120

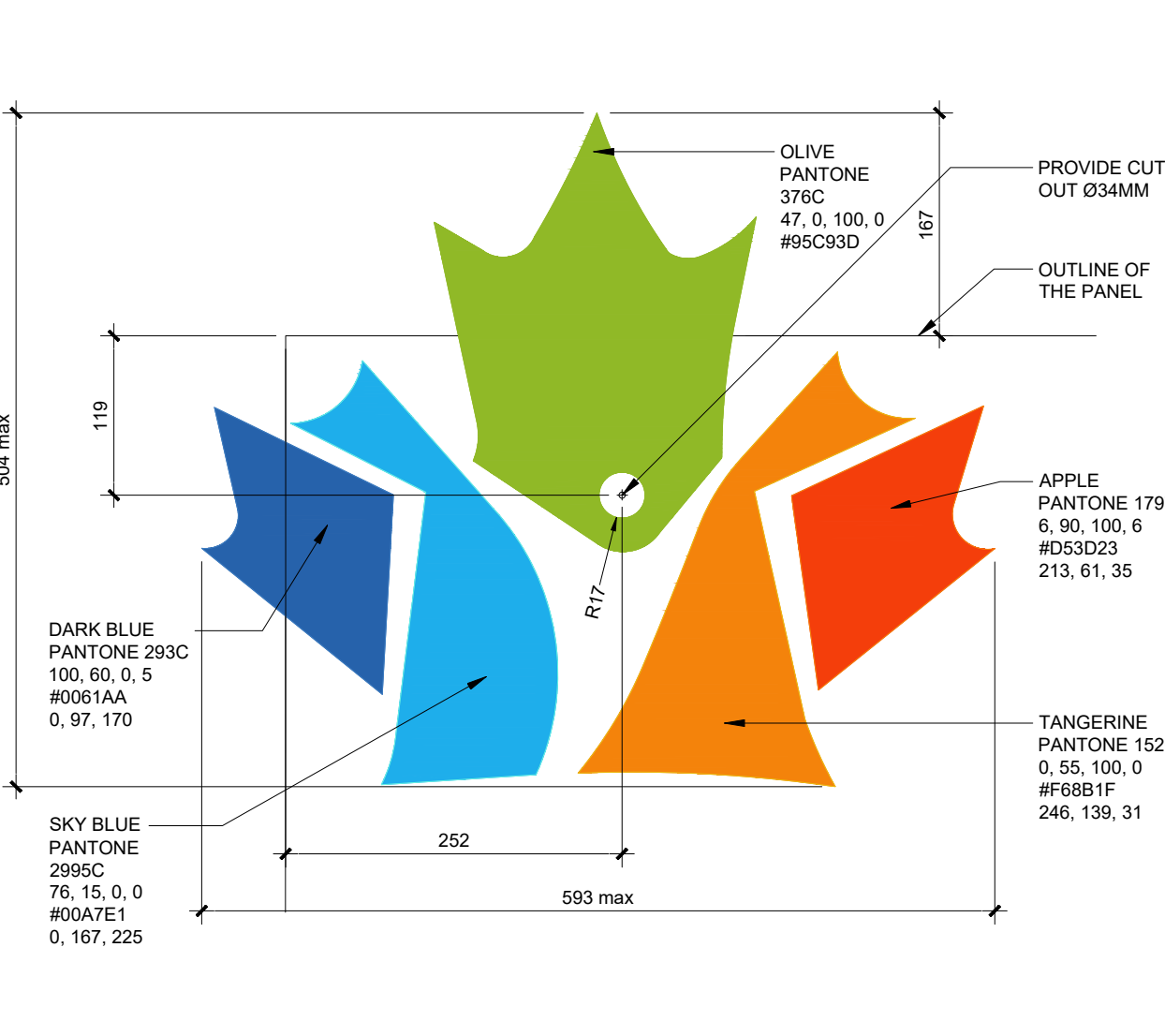
ISSUE: 1 OF 1
ISSUED FOR TENDER
DATE OF: 15 APRIL 2026
REV # 1



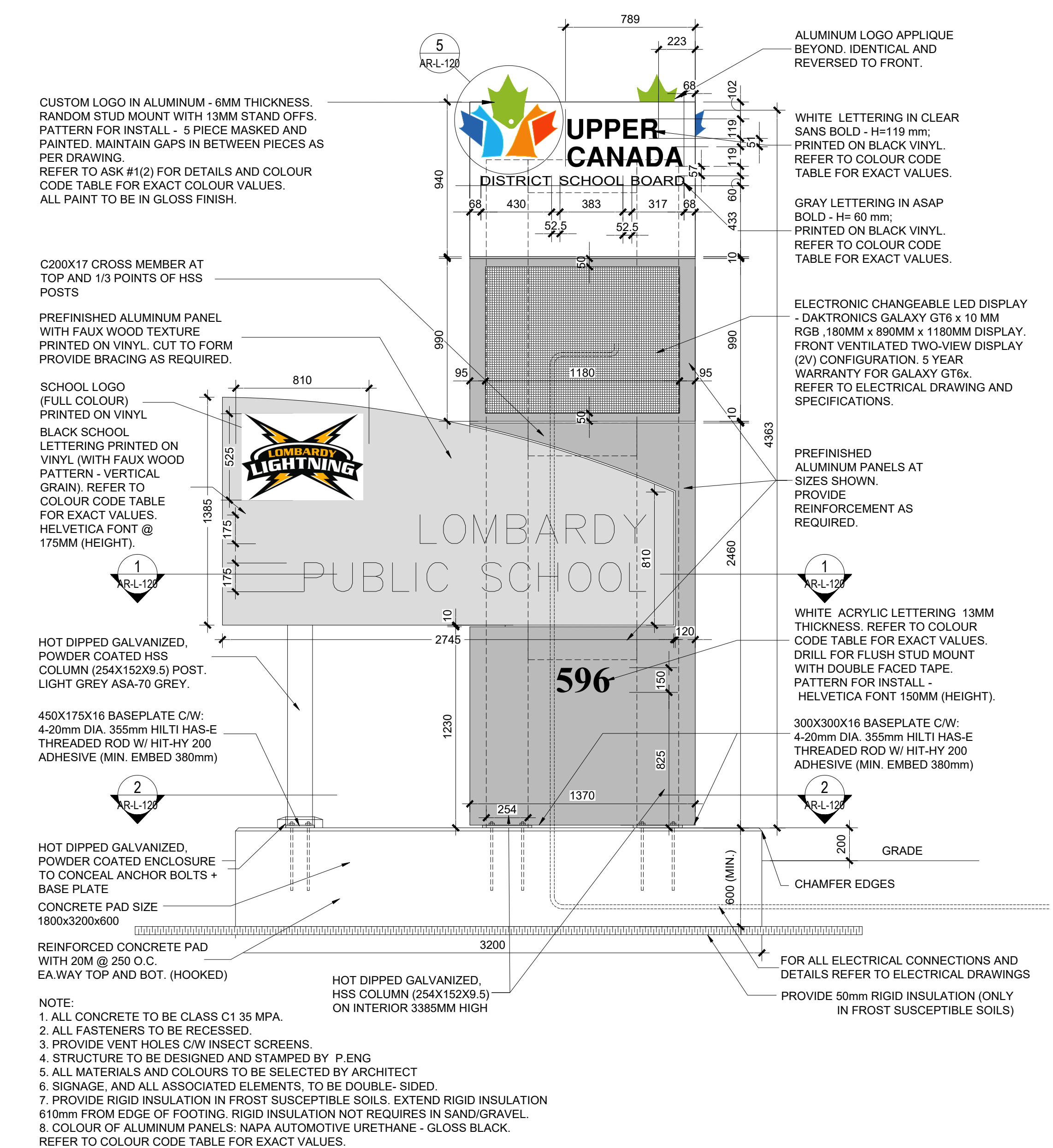
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AR-L-120 SCALE: 1:20



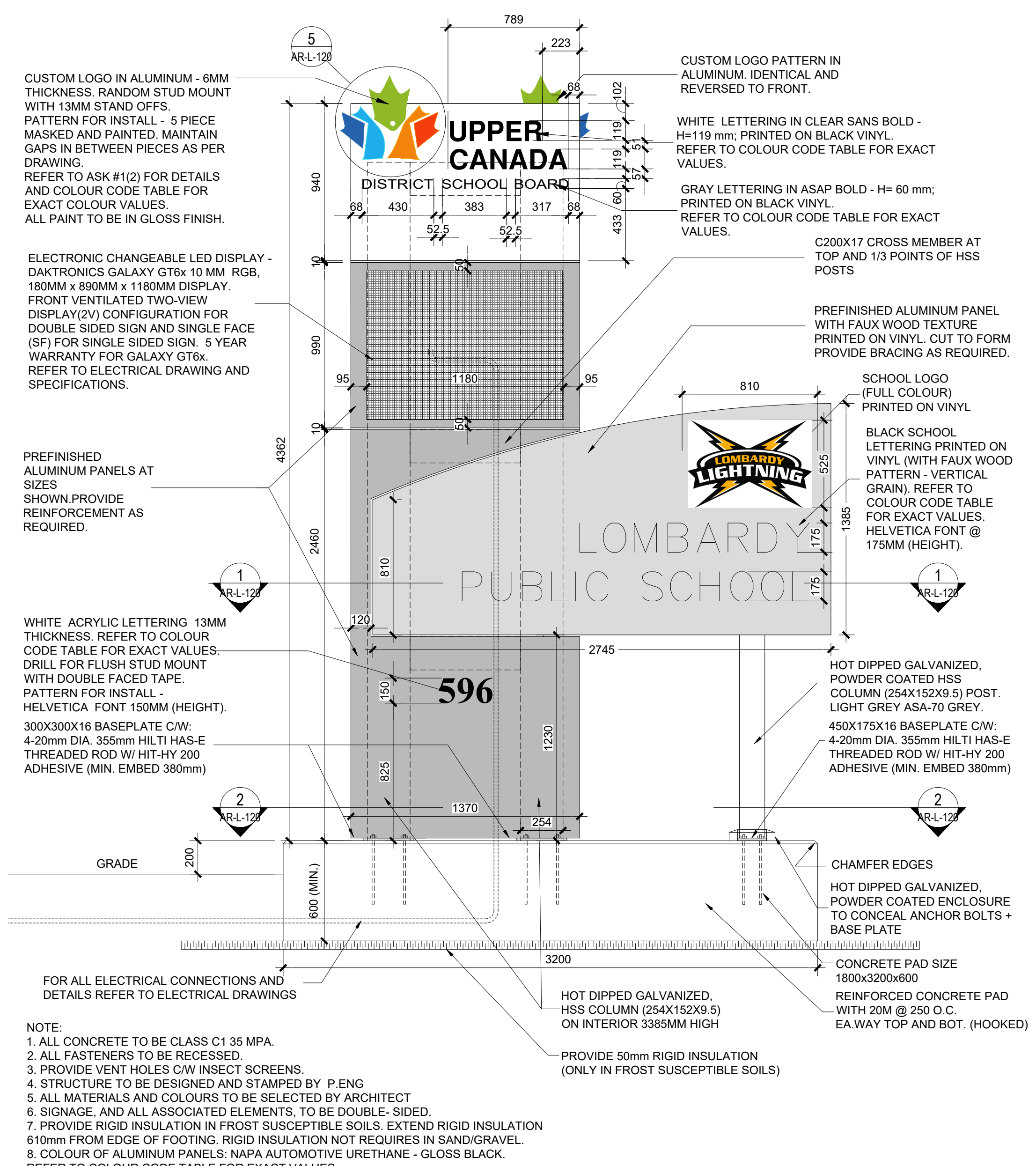
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AR-L-120 SCALE: 1:20



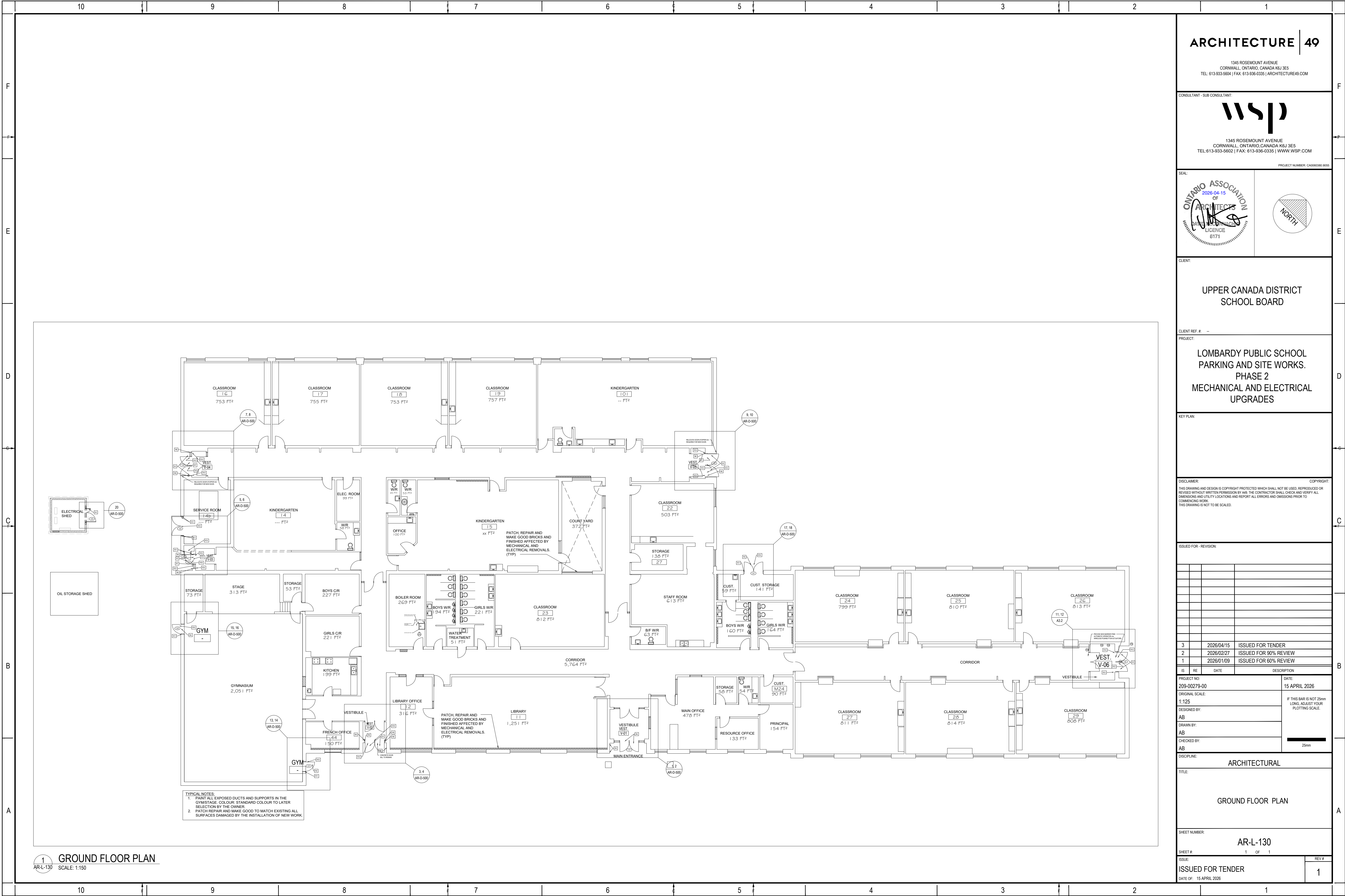
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AR-L-120 SCALE: 1:5

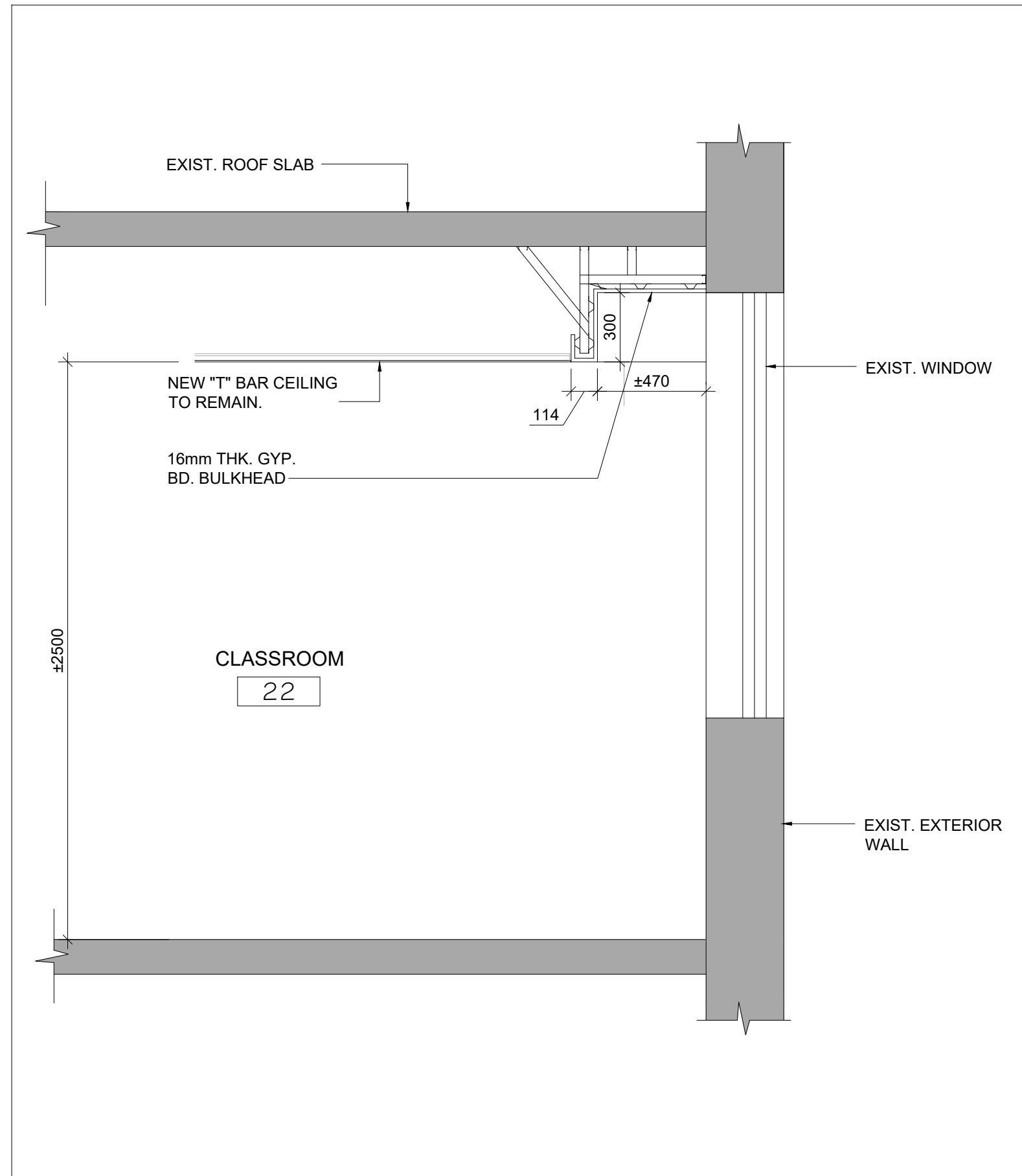


3 BRONZE FRONT ELEVATION SINGLE OR DOUBLE SIDED
AR-L-120 SCALE: 1:20

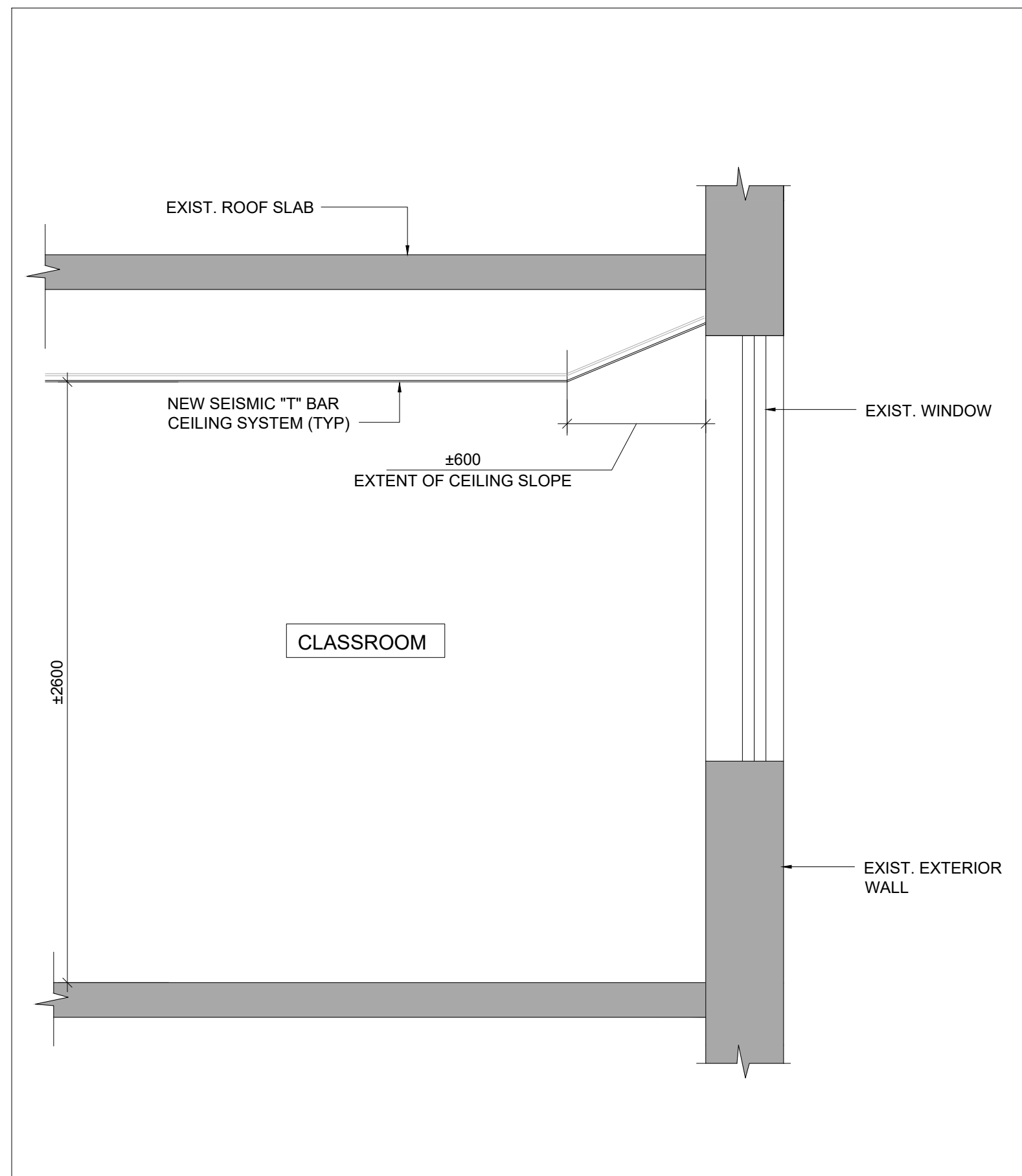


4 BRONZE REAR ELEVATION DOUBLE SIDED
AR-L-120 SCALE: 1:20

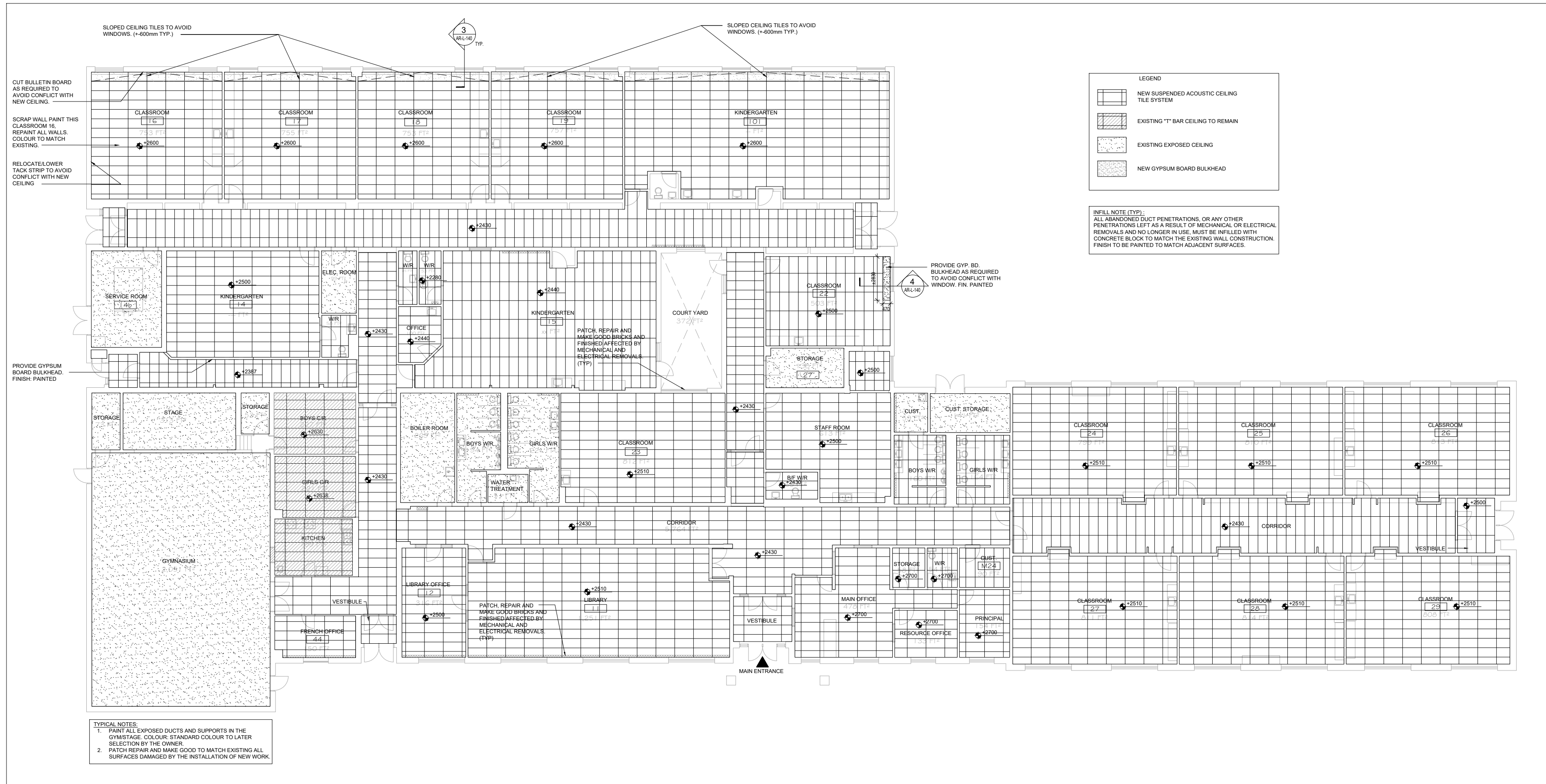




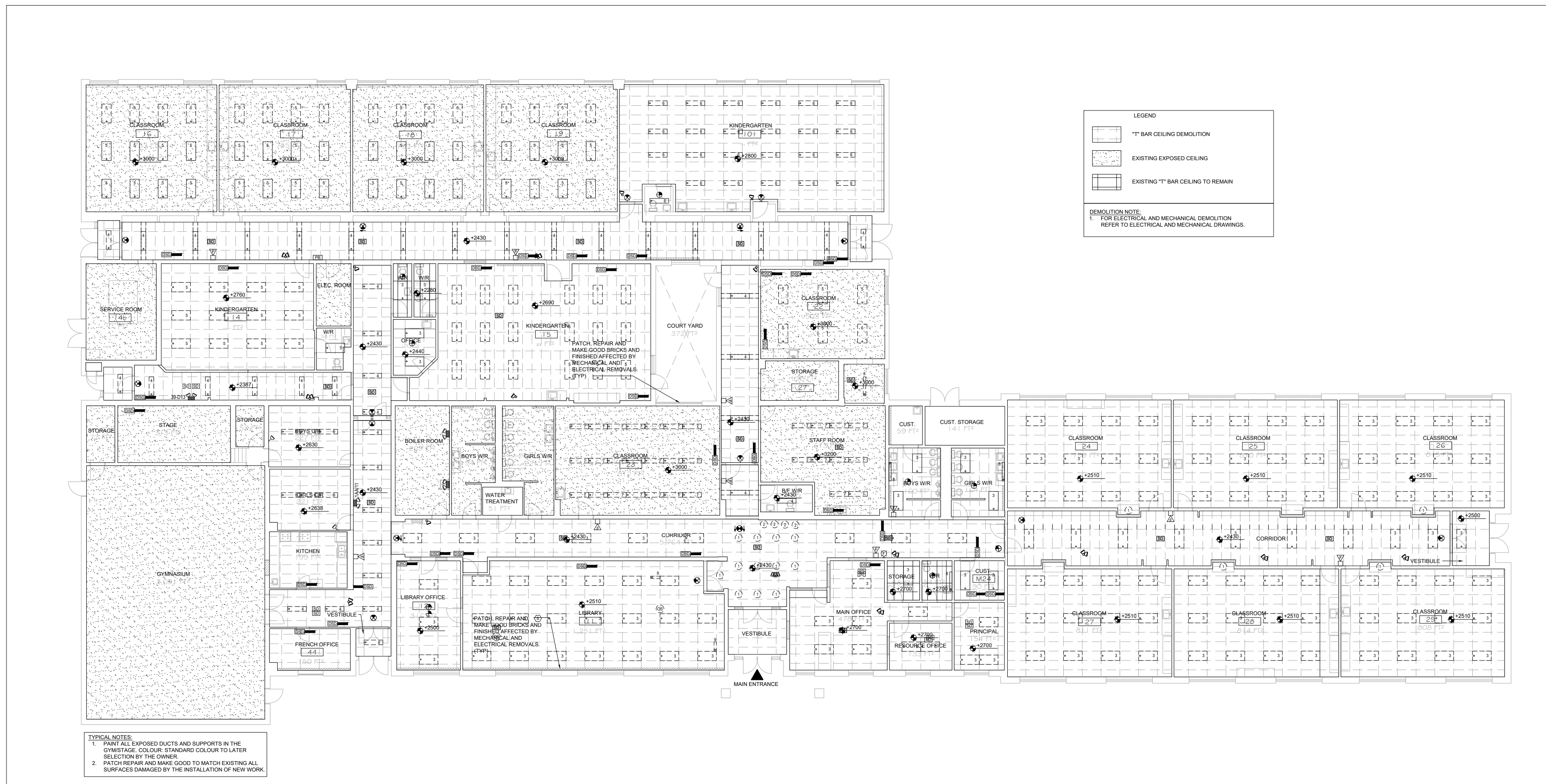
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AR-L-140 SCALE: 1:20



3 SECTION DETAIL AT BULKHEAD
AR-L-140 SCALE: 1:20



2 REFLECTED CEILING PLAN
AR-L-140 SCALE: 1:200



1 REFLECTED CEILING PLAN DEMOLITION
AR-L-140 SCALE: 1:200

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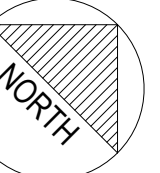
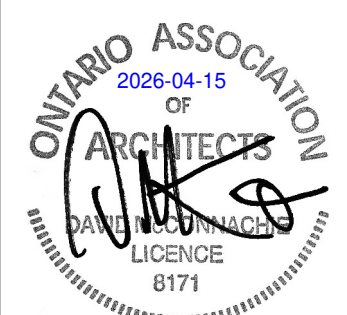
CONSULTANT - SUB CONSULTANT:



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PROJECT NUMBER: C4000380-0005

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SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

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IS	RE	DATE	DESCRIPTION
3		2026/04/15	ISSUED FOR TENDER
2		2026/02/27	ISSUED FOR 90% REVIEW
1		2026/01/09	ISSUED FOR 60% REVIEW

PROJECT NO: 209-00279-00
DATE: 15 APRIL 2026

ORIGINAL SCALE: 1:125
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DESIGNED BY: RL
DRAWN BY: RL

CHECKED BY: DM
25mm

DISCIPLINE: ARCHITECTURAL

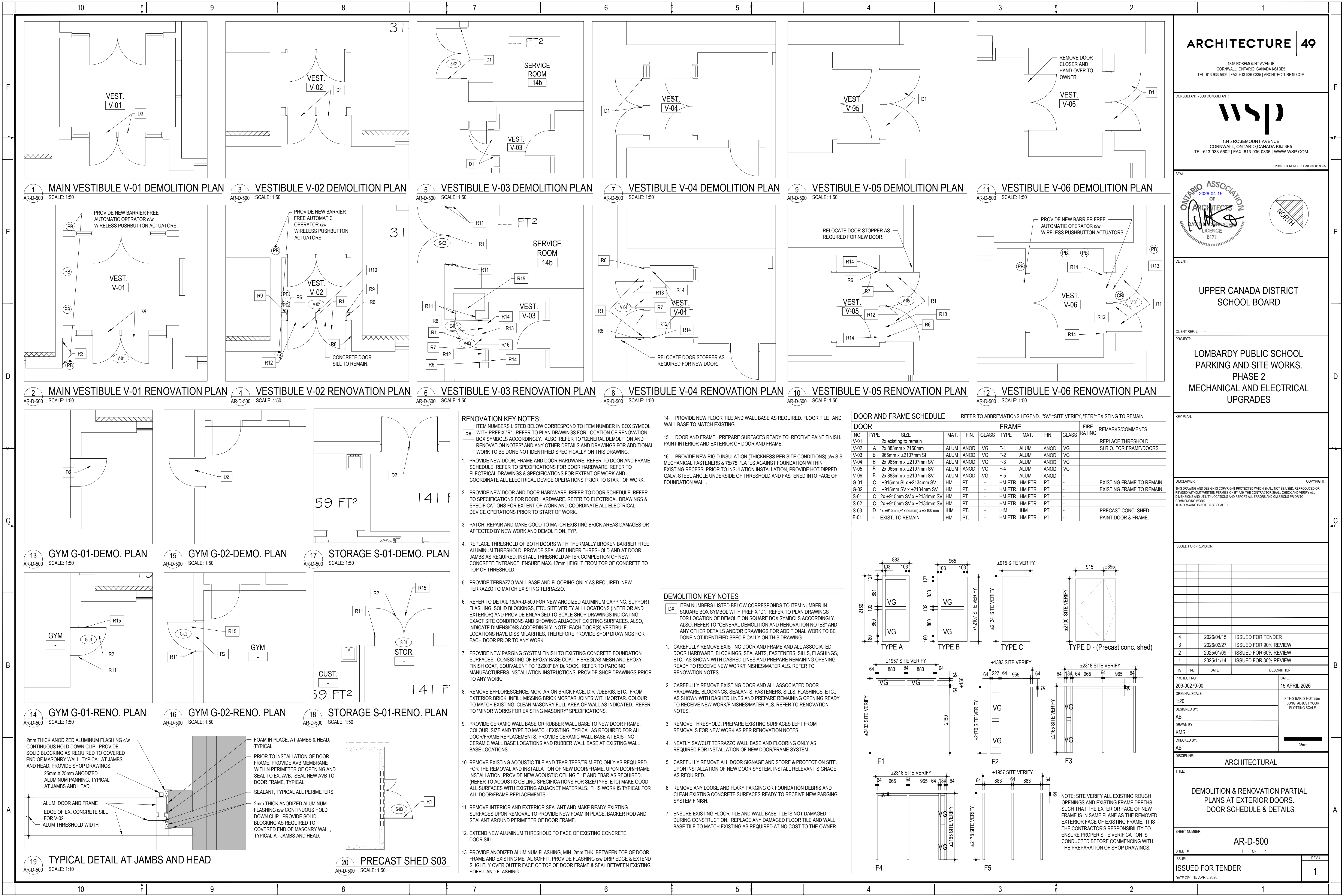
TITLE:

REFLECTED CEILING PLAN
DEMOLITION AND NEW

SHEET NUMBER: AR-L-140

SHEET #: 1 OF 1
ISSUE: 1

ISSUED FOR TENDER
DATE OF: 15 APRIL 2026



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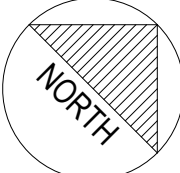
CONSULTANT - SUB CONSULTANT:

wsp

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TEL: 613-933-5602 | FAX: 613-936-0335 | WWW.WSP.COM

PROJECT NUMBER: CAD000300.0005

SEAL



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UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
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MECHANICAL AND ELECTRICAL
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3	2026/02/27	ISSUED FOR 90% REVIEW
2	2025/01/09	ISSUED FOR 60% REVIEW
1	2025/11/14	ISSUED FOR 30% REVIEW

IS	RE	DATE	DESCRIPTION
PROJECT NO: 209-00279-00			DATE: 15 APRIL 2026
ORIGINAL SCALE: 1:20			IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.  25mm
DESIGNED BY: AB			
DRAWN BY: KMS			
CHECKED BY: AB			
DISCIPLINE:			

TITLE:

DEMOLITION & RENOVATION PARTIAL
PLANS AT EXTERIOR DOORS.
DOOR SCHEDULE & DETAILS

SHEET NUMBER:

AR-D-500

SHEET #:

1 OF 1

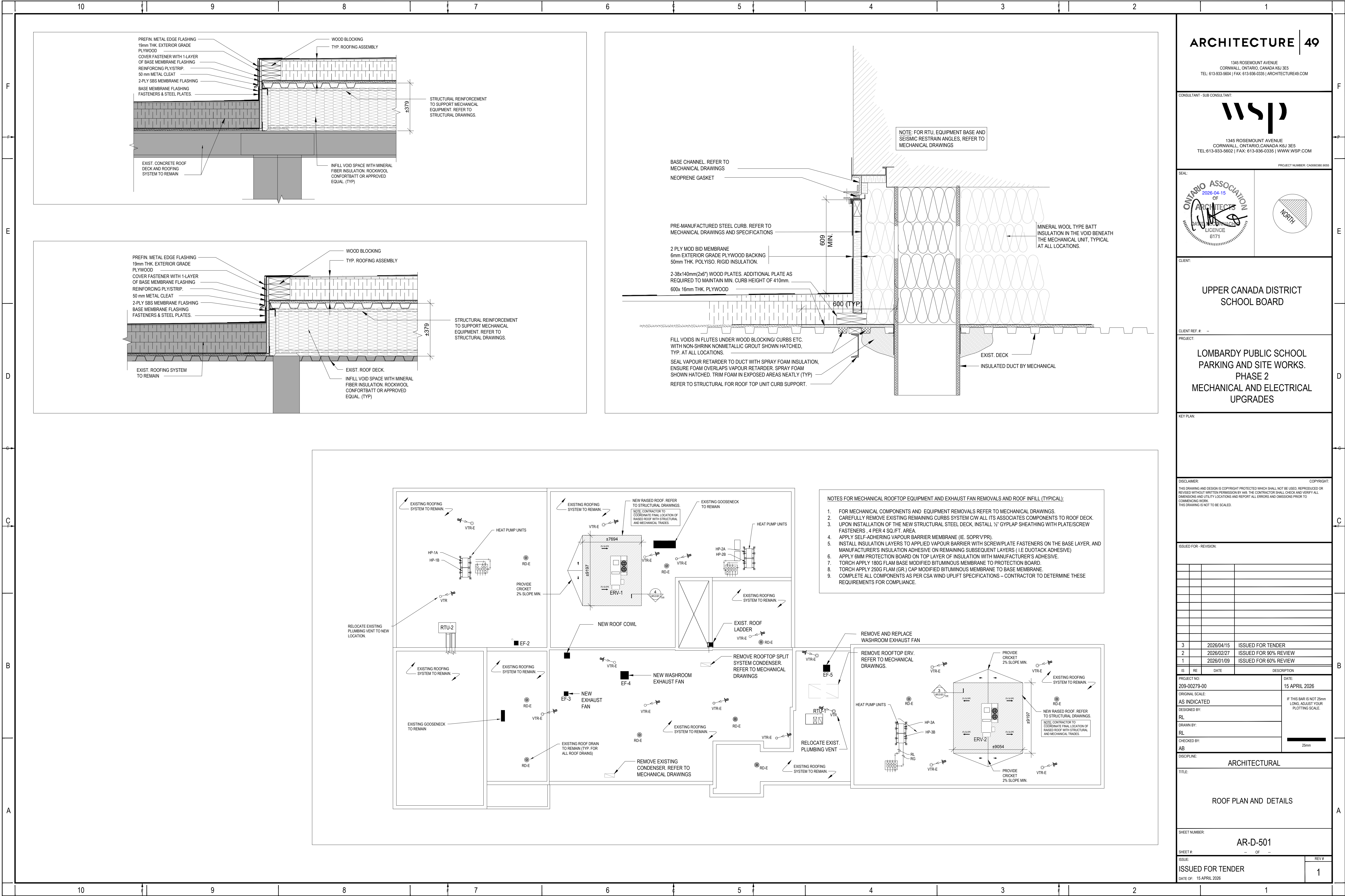
ISSUE:

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DATE OF: 15 APRIL 2026

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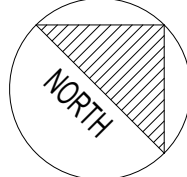
CONSULTANT - SUB CONSULTANT:



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CORNWALL, ONTARIO CANADA K6J 3E5
TEL: 613-933-5602 | FAX: 613-936-0335 | WWW.WSP.COM

PROJECT NUMBER: C4000380-0005

SEAL:



CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

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NO.	DATE	DESCRIPTION
3	2026/04/15	ISSUED FOR TENDER
2	2026/02/27	ISSUED FOR 90% REVIEW
1	2026/01/09	ISSUED FOR 60% REVIEW

PROJECT NO: 209-00279-00

DATE: 15 APRIL 2026

ORIGINAL SCALE: AS INDICATED

DESIGNED BY: RL

DRAWN BY: RL

CHECKED BY: AB

DISCIPLINE: ARCHITECTURAL

TITLE: ROOF PLAN AND DETAILS

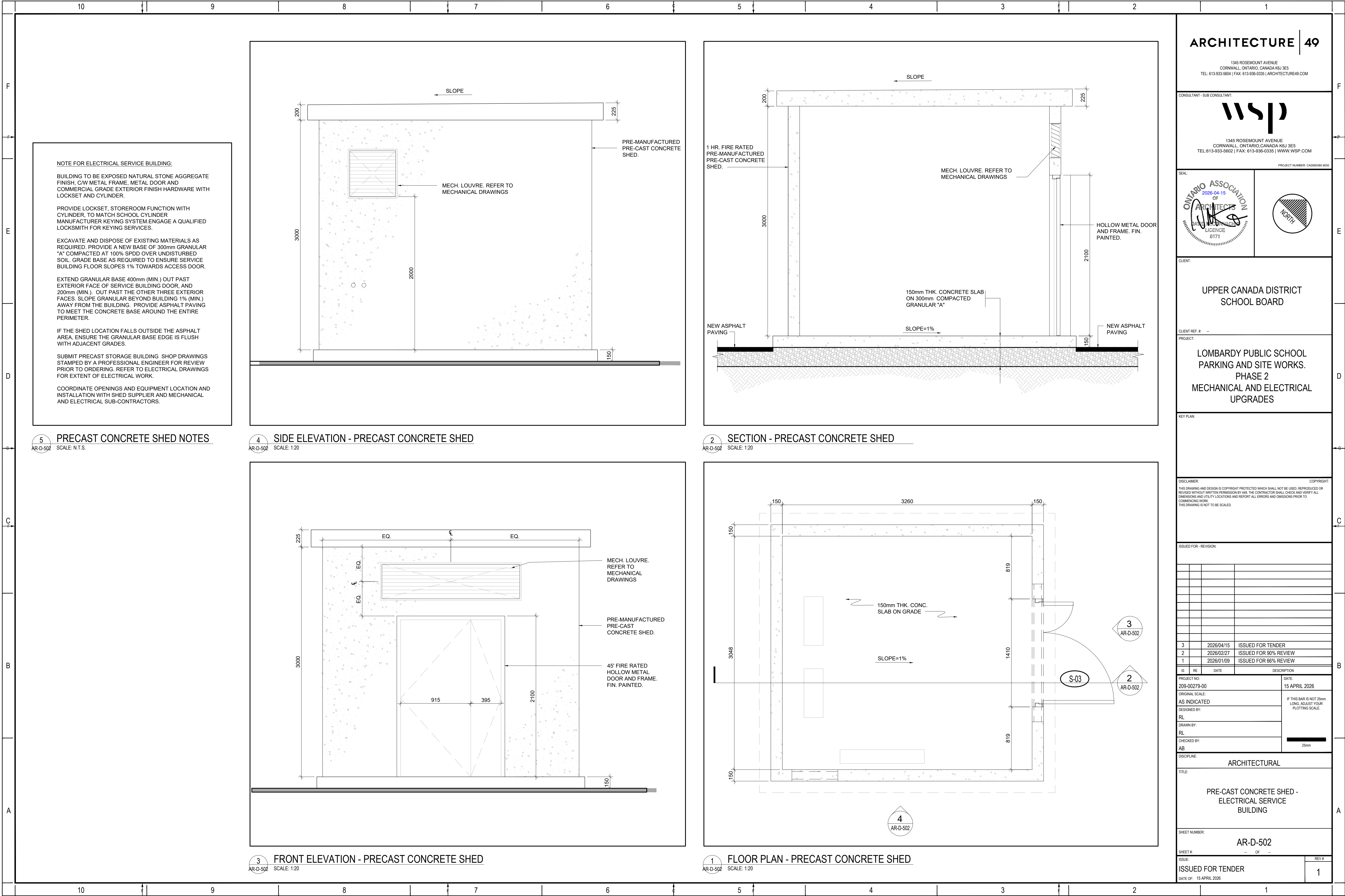
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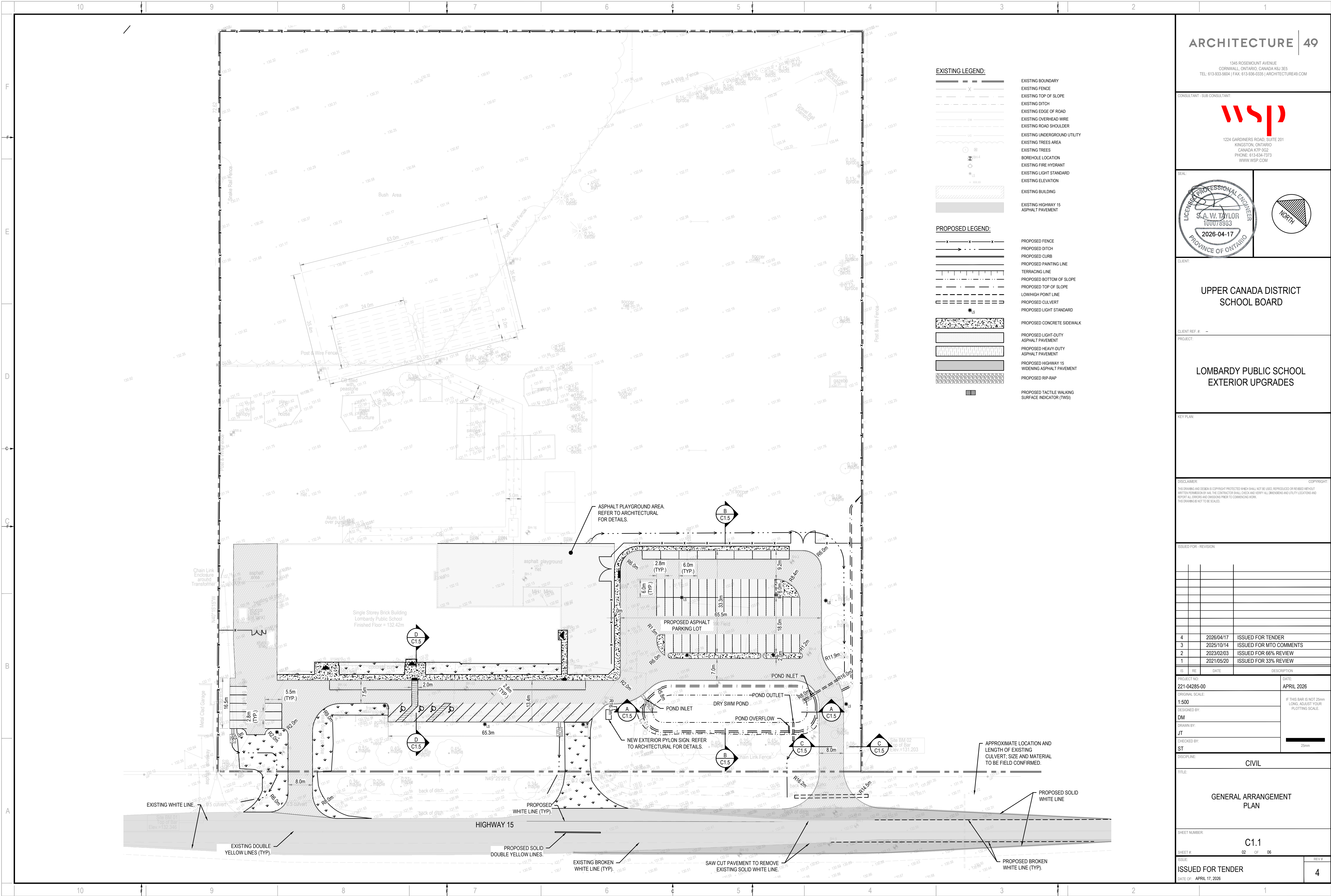
ISSUE: ISSUED FOR TENDER

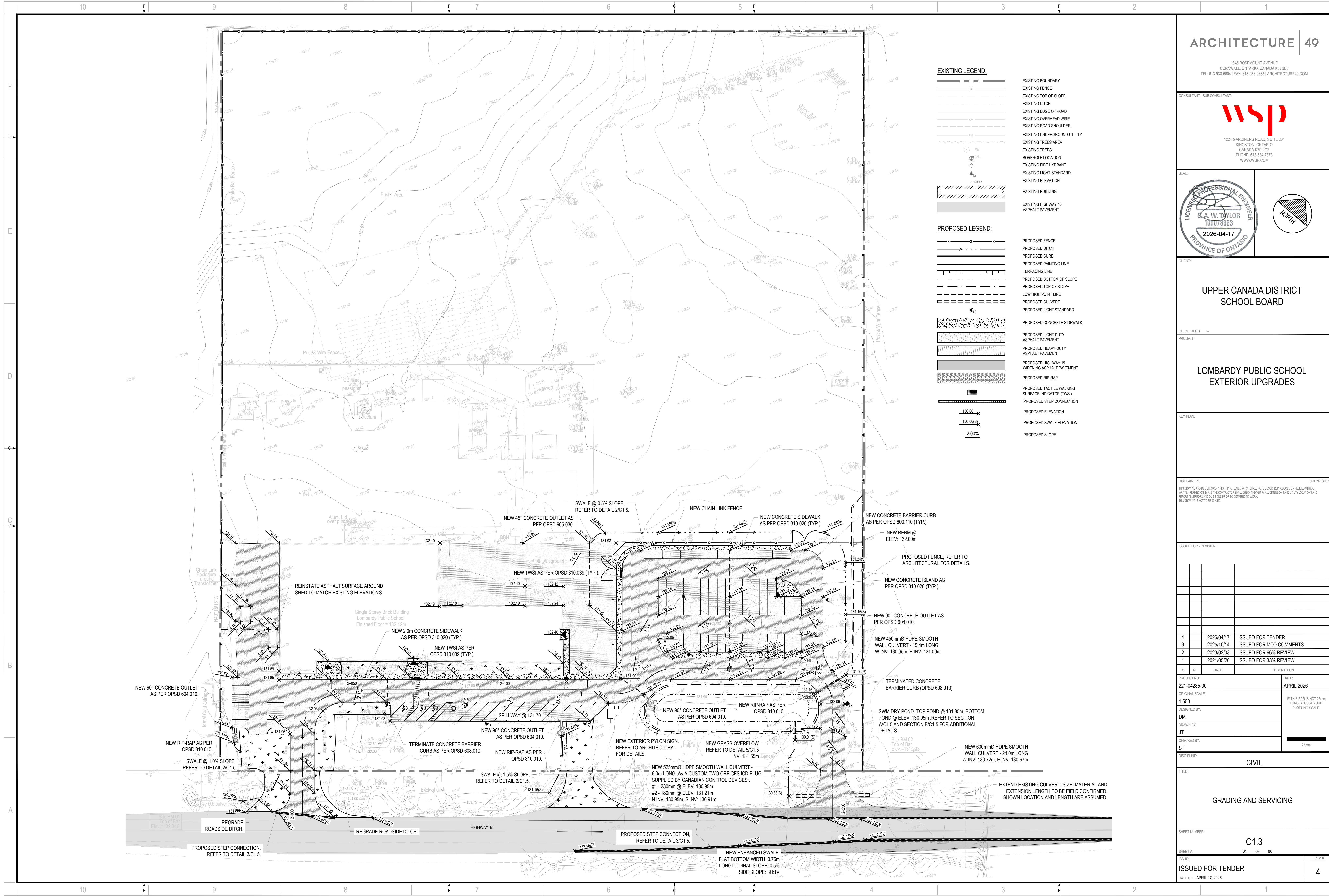
DATE OF: 15 APRIL 2026

REV #

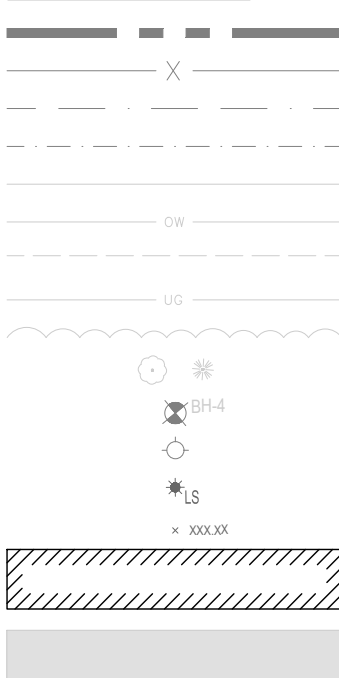
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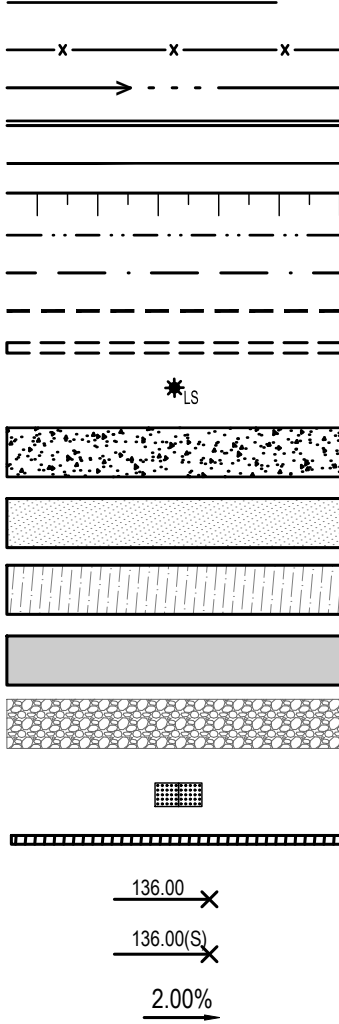


EXISTING LEGEND:



EXISTING BOUNDARY
EXISTING FENCE
EXISTING TOP OF SLOPE
EXISTING DITCH
EXISTING EDGE OF ROAD
EXISTING OVERHEAD WIRE
EXISTING ROAD SHOULDER
EXISTING UNDERGROUND UTILITY
EXISTING TREES AREA
EXISTING TREES
BOREHOLE LOCATION
EXISTING FIRE HYDRANT
EXISTING LIGHT STANDARD
EXISTING ELEVATION
EXISTING BUILDING
EXISTING HIGHWAY 15
ASPHALT PAVEMENT

PROPOSED LEGEND:



PROPOSED FENCE
PROPOSED DITCH
PROPOSED CURB
PROPOSED PAINTING LINE
TERRACING LINE
PROPOSED BOTTOM OF SLOPE
PROPOSED TOP OF SLOPE
LOW/HIGH POINT LINE
PROPOSED CULVERT
PROPOSED LIGHT STANDARD
PROPOSED CONCRETE SIDEWALK
PROPOSED LIGHT-DUTY
ASPHALT PAVEMENT
PROPOSED HEAVY-DUTY
ASPHALT PAVEMENT
PROPOSED HIGHWAY 15
WIDENING ASPHALT PAVEMENT
PROPOSED RIP-RAP
PROPOSED TACTILE WALKING
SURFACE INDICATOR (TWSI)
PROPOSED STEP CONNECTION
PROPOSED ELEVATION
PROPOSED SWALE ELEVATION
PROPOSED SLOPE

ARCHITECTURE 49

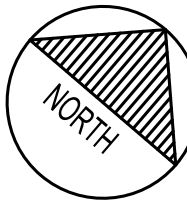
1345 ROSEMOUNT AVENUE
CORNWALL, ONTARIO, CANADA K6J 3E5
TEL: 613-933-5604 | FAX: 613-936-0335 | ARCHITECTURE49.COM

CONSULTANT - SUB CONSULTANT



1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 6G2
PHONE: 613-634-7373
WWW.WSP.COM

SEAL



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UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
EXTERIOR UPGRADES

KEY PLAN

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4	2026/04/17	ISSUED FOR TENDER
3	2025/10/14	ISSUED FOR MTO COMMENTS
2	2023/02/03	ISSUED FOR 66% REVIEW
1	2021/05/20	ISSUED FOR 33% REVIEW

IS	RE	DATE	DESCRIPTION
PROJECT NO:	221-04285-00	DATE:	APRIL 2026
ORIGINAL SCALE:	1:500	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	DM		
DRAWN BY:	JT		
CHECKED BY:	ST		

DISCIPLINE: CIVIL

TITLE:

GRADING AND SERVICING

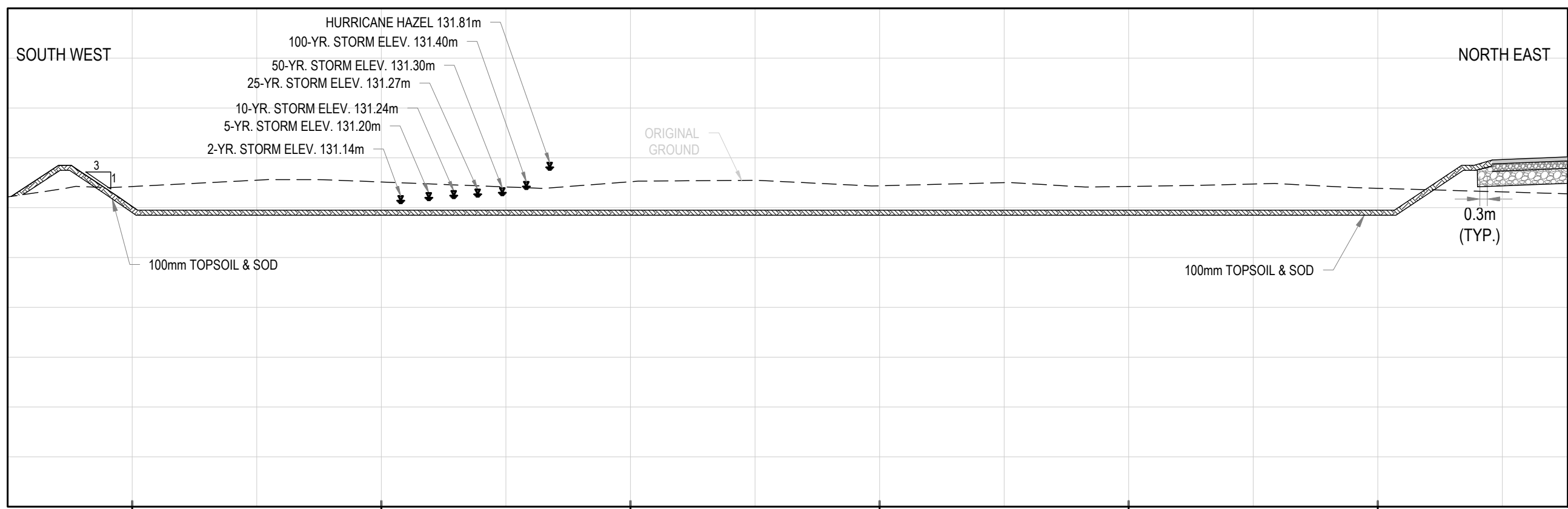
SHEET NUMBER: C1.3

SHEET # 04 OF 06

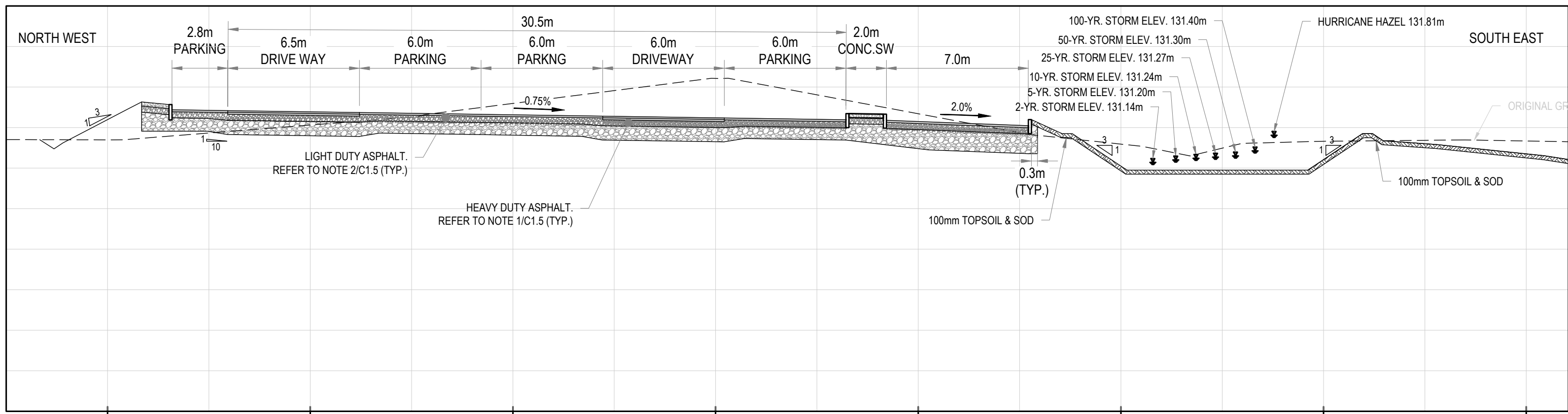
ISSUE: ISSUED FOR TENDER

DATE OF: APRIL 17, 2026

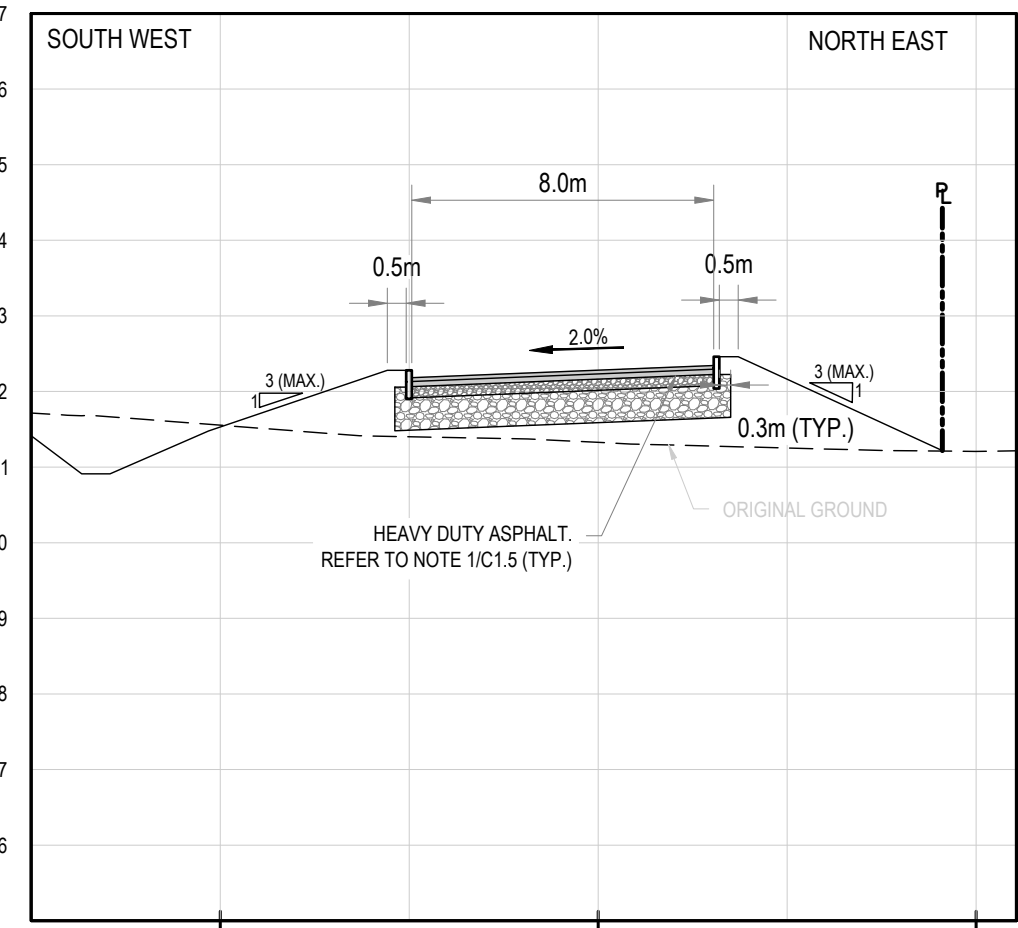
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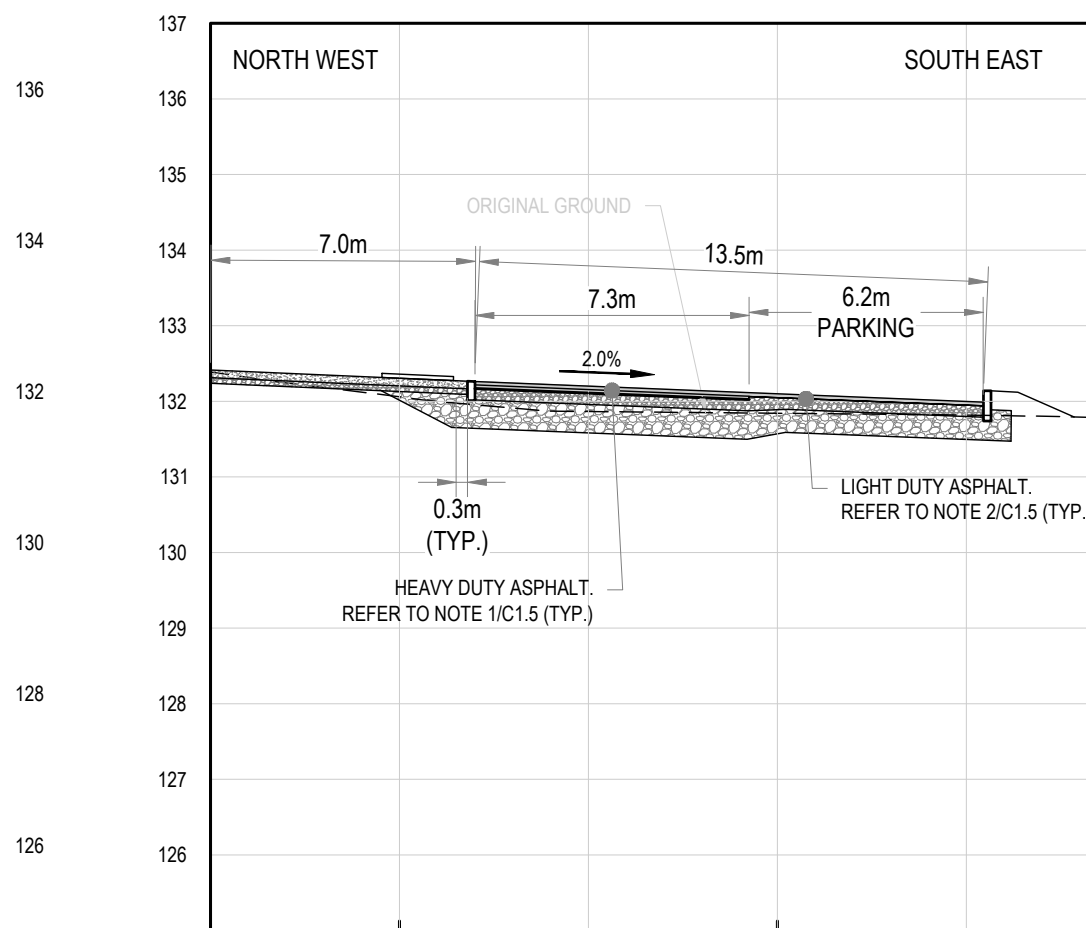
A SECTION A
C1.5 SCALE: H: 1:200, V: 1:100



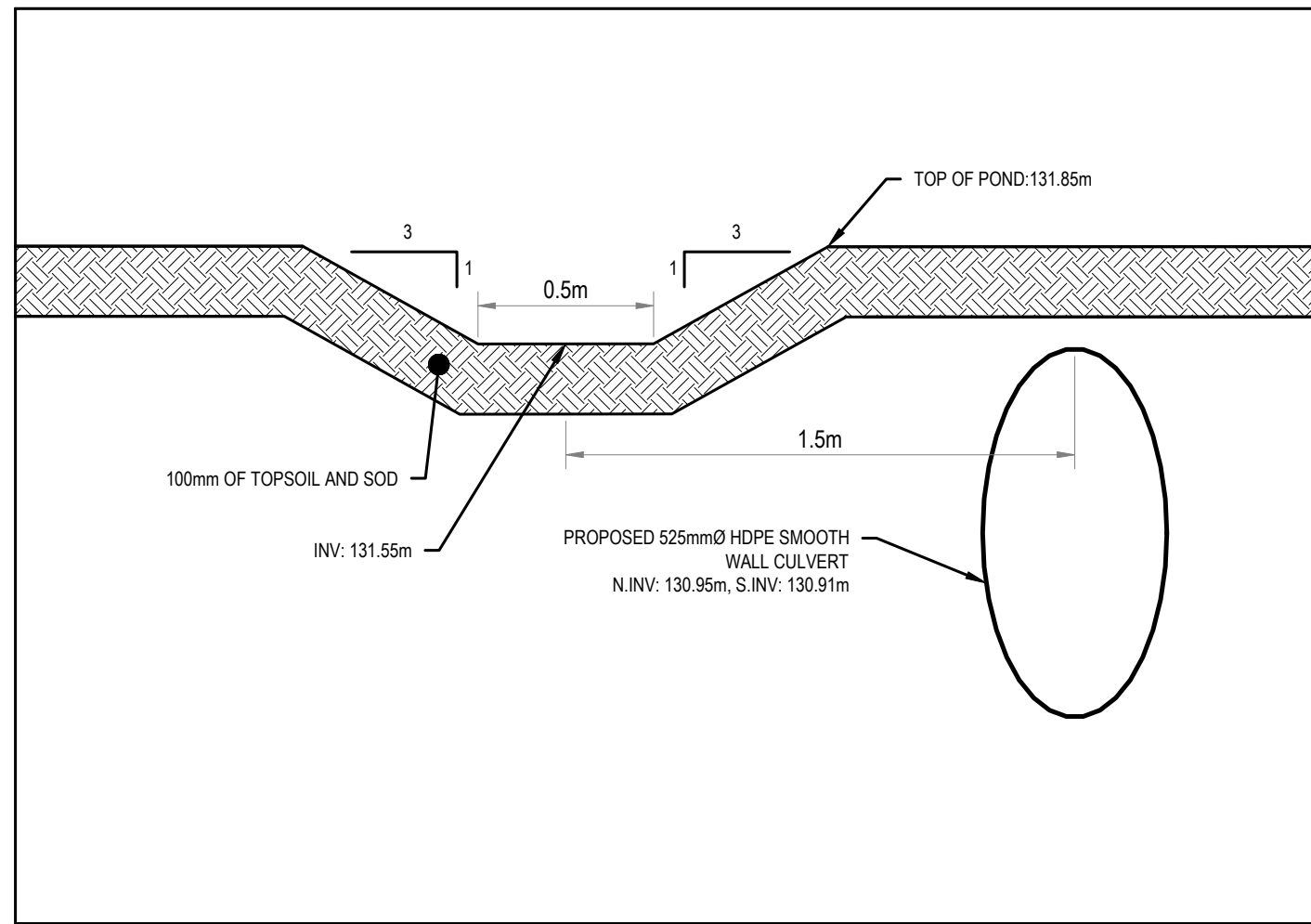
B SECTION B
C1.5 SCALE: H: 1:200, V: 1:100



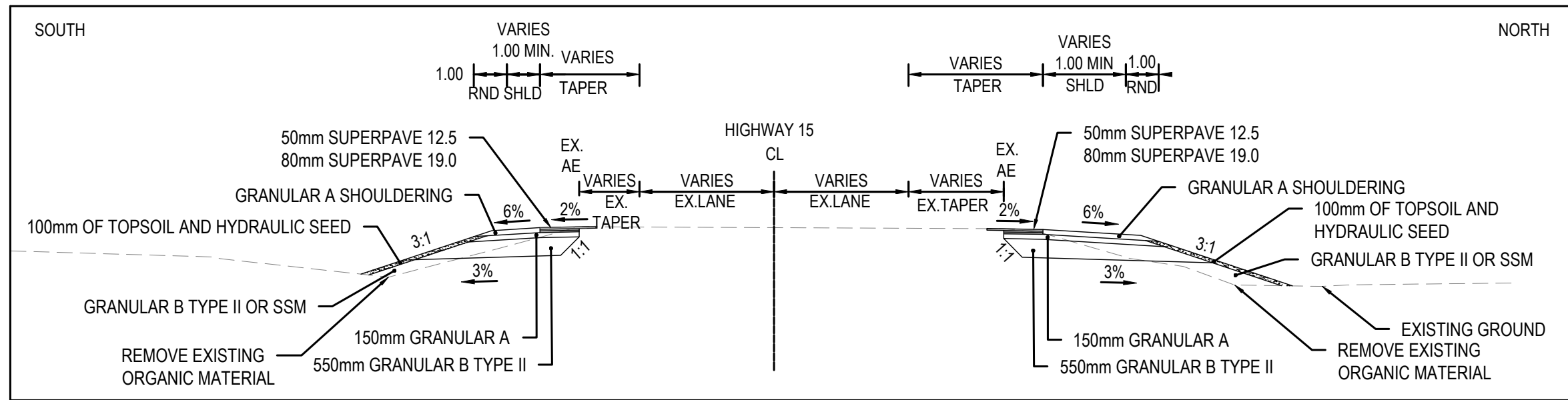
C SECTION C
C1.5 SCALE: H: 1:200, V: 1:100



D SECTION D
C1.5 SCALE: H: 1:200, V: 1:100

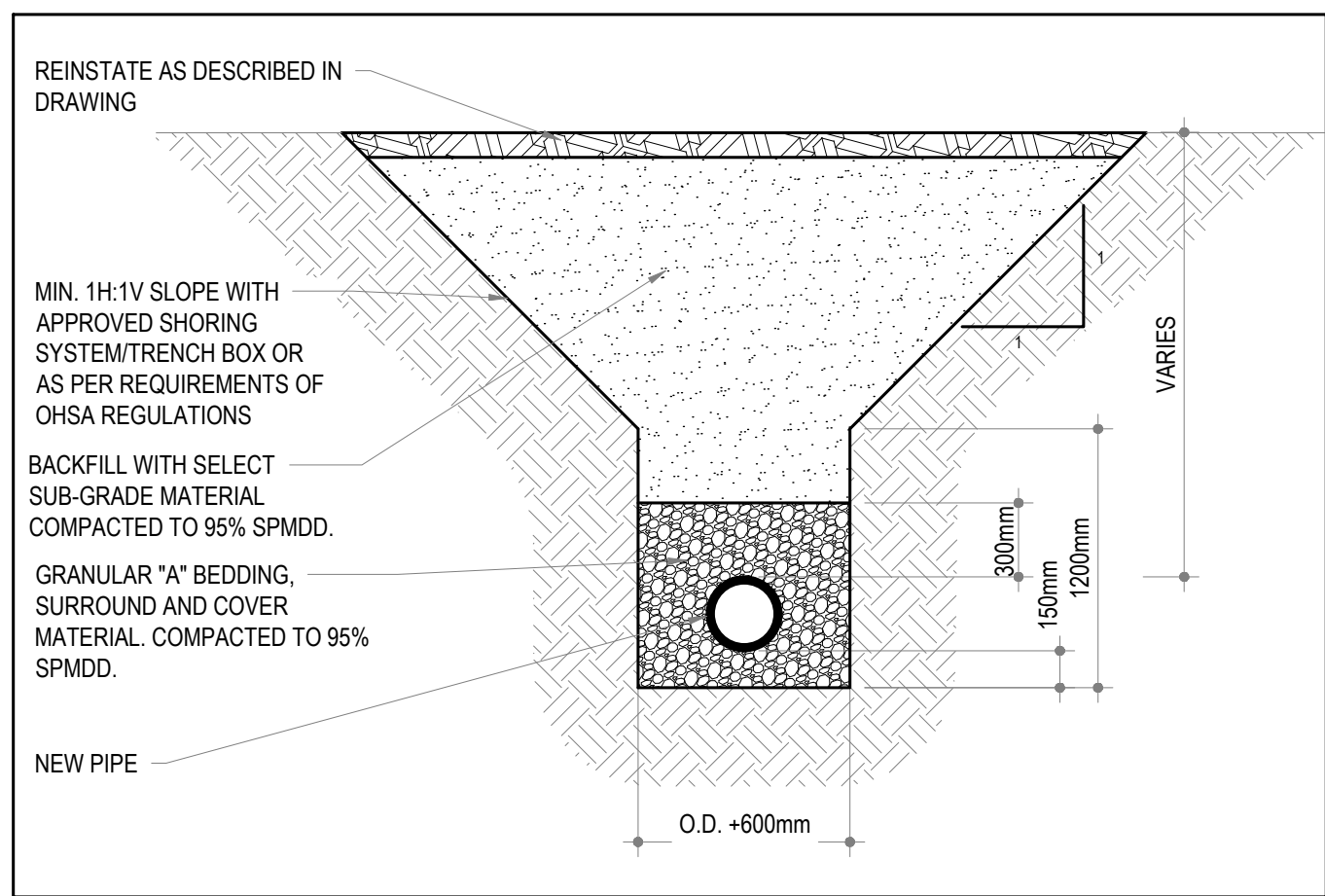


5 DRY POND OVERFLOW DETAIL
C1.5 SCALE: N.T.S.

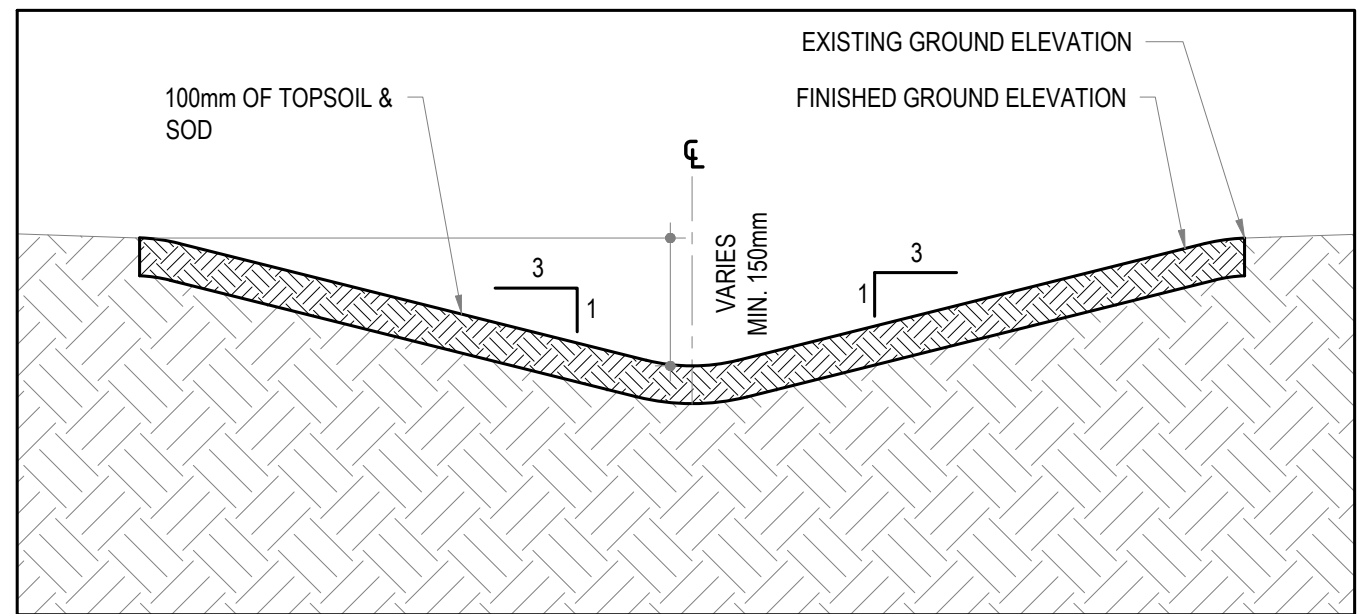


6 TYPICAL SECTION - HIGHWAY 15
C1.5 SCALE: N.T.S.

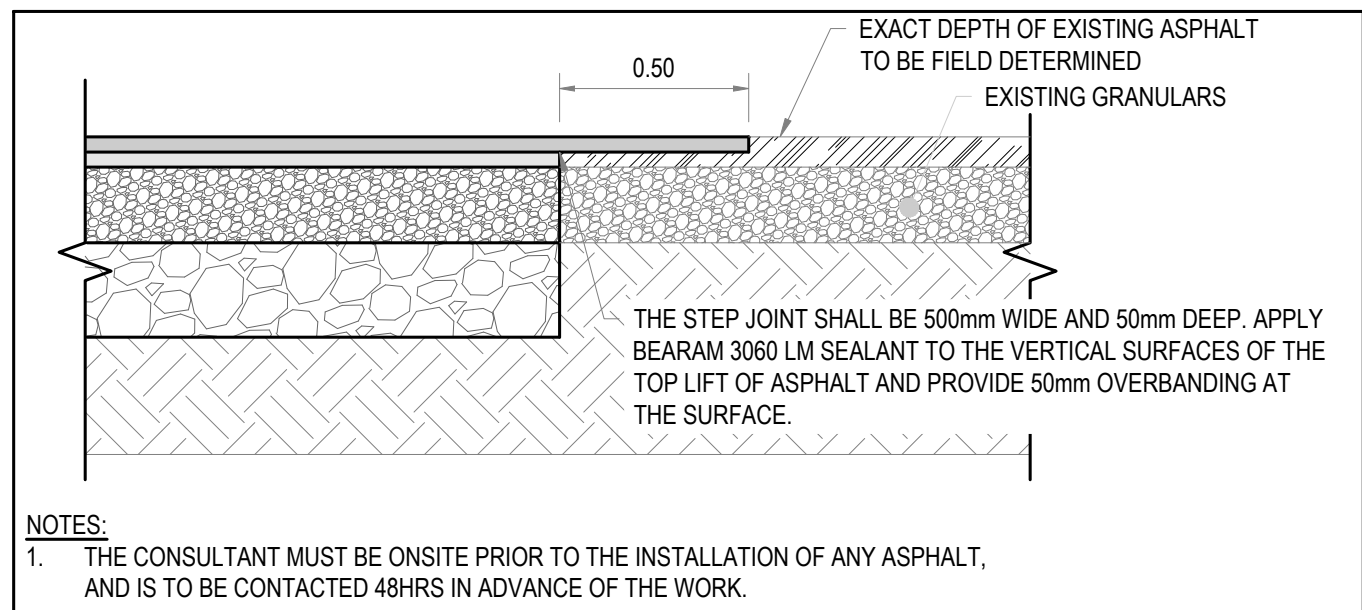
- NOTES:
- HEAVY DUTY ASPHALT SHALL BE USED FOR ALL PRIVATE ROADWAYS CONTAINING:
 - 40mm SUPERPAVE 12.5 SURFACE COURSE, 50mm SUPERPAVE 19.0 BINDER COURSE, 150mm GRANULAR 'A' BASE, 350mm GRANULAR 'B' TYPE II SUBBASE.
 - LIGHT DUTY ASPHALT SHALL BE USED FOR ALL PRIVATE VEHICLE PARKING SPACES CONTAINING:
 - 50mm SUPERPAVE 12.5 SURFACE COURSE, 150mm GRANULAR 'A' BASE, 300mm GRANULAR 'B' TYPE II SUBBASE.
 - ASPHALT ROAD WIDENING OF HIGHWAY 15 CONTAINING:
 - 50mm SUPERPAVE 12.5 SURFACE COURSE, 80mm SUPERPAVE 19.0 BINDER COURSE, 150mm GRANULAR 'A' BASE, 550mm GRANULAR 'B' TYPE II SUBBASE.
 - SUITABLE SUBGRADE SHALL BE FREE OF ORGANICS, SHAPED, PROOF ROLLED AND APPROVED BY GEOTECHNICAL CONSULTANT.



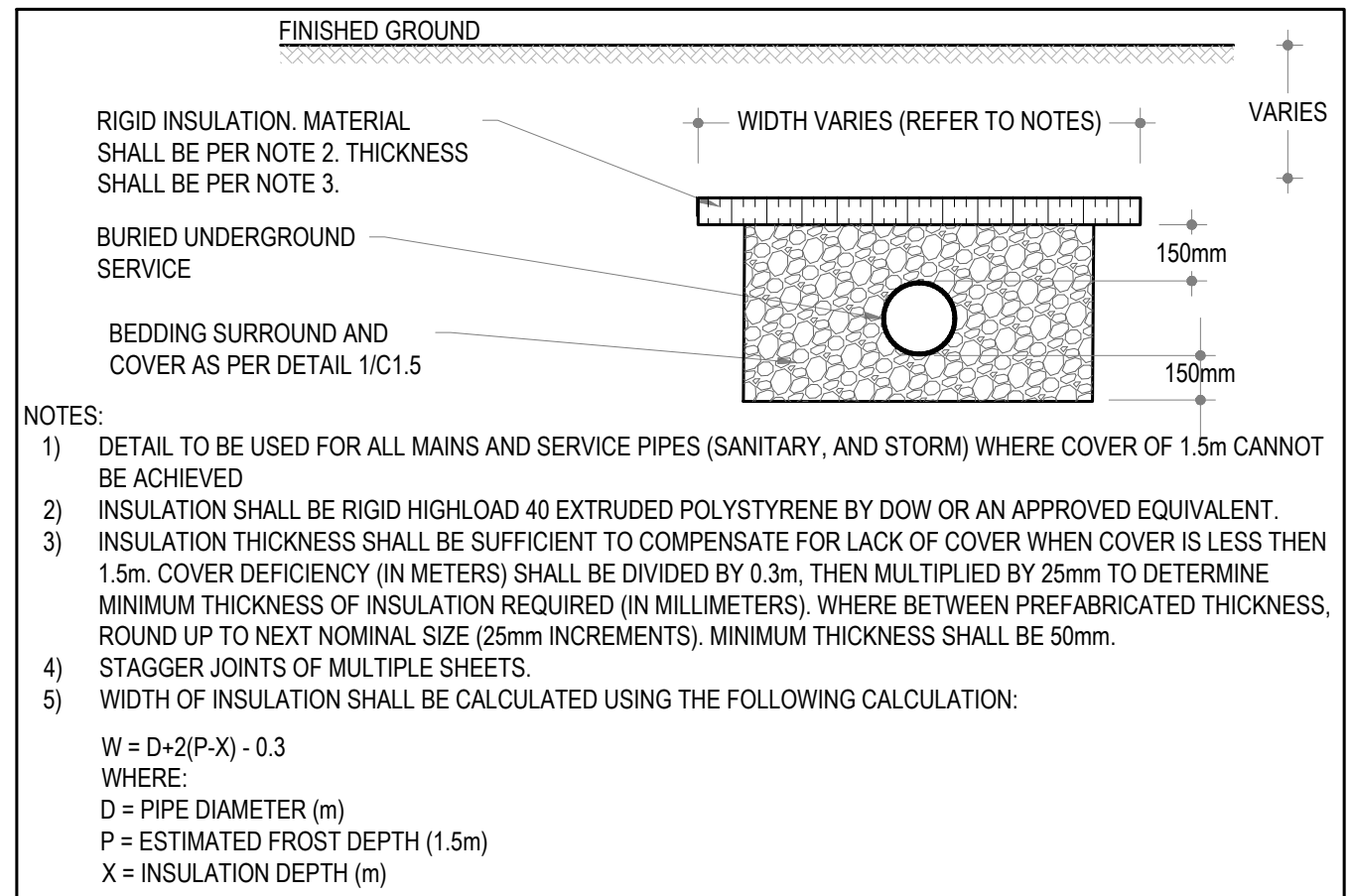
1 TYPICAL TRENCH DETAIL
C1.5 SCALE: N.T.S.



2 TYPICAL SWALE CROSS-SECTION DETAIL
C1.5 SCALE: N.T.S.

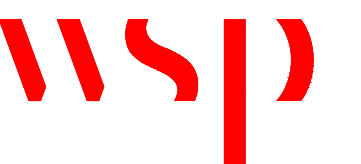


3 TYPICAL ASPHALT STEP CONNECTION DETAIL
C1.5 SCALE: N.T.S.



4 FROST PROTECTION DETAIL
C1.5 SCALE: N.T.S.

CONSULTANT - SUB CONSULTANT



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PHONE: 613-634-7373
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SEAL



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UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
EXTERIOR UPGRADES

KEY PLAN

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1		2021/05/20	ISSUED FOR 33% REVIEW

PROJECT NO:	221-04285-00	DATE:	APRIL 2026
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	DM		
DRAWN BY:	JT		
CHECKED BY:	ST		

DISCIPLINE: CIVIL

TITLE:

CROSS SECTIONS & DETAILS

SHEET NUMBER:

C1.5

SHEET # 06 OF 06

ISSUE:


ISSUED FOR TENDER

DATE OF: APRIL 17, 2026

REV #

4

Autodesk Draw (INCR) Alias Projects - R25 - C25CA0060380.9055 Lombardy Public School STR-R25.rvt
2026/04/16 10:38:40 AM

DRAWING ABBREVIATIONS										TG-ABBR-01
ABUT	ABUTMENT	DP	DEEP	td	TENSION DEVELOPMENT LENGTH OF REBAR	SPEC	SPECIFICATIONS			
ACA	ADHESIVE CONCRETE ANCHORS, SEE GENERAL NOTES	DWG	DRAWING	tdc	COMPRESSION DEVELOPMENT LENGTH OF REBAR	SPF	SPRUCE PINE FIR			
ADD'L	ADDITIONAL	DWL	DOWEL	tdm	TENSION EMBEDMENT LENGTH WITH STANDARD HOOK	SR	STUD RAIL			
AEC	ARCHITECTURALLY EXPOSED CONCRETE	EA	EACH	LE	LEFT END	SS	STAINLESS STEEL			
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	ECR	EPOXY COATED REINFORCEMENT	LG	LONG	ST	STRAIGHT			
AIFB	ASPHALT IMPREGNATED FIBERBOARD	EBF	ECCENTRICALLY BRACED FRAME	LL	LOWER LEVEL	STD	STANDARD			
ALT	ALTERNATE	EE	EACH END	LLH	LONG LEG HORIZONTAL	STE	SHEAR TRANSFER ELEMENTS			
AMA	ADHESIVE MASONRY ANCHORS, SEE GENERAL NOTES	EF	EACH FACE	LLV	LONG LEG VERTICAL	STG	STAGGERED			
ARCH	ARCHITECTURAL	EJ, EXP JT	EXPANSION JOINT	LONG	LONGITUDINAL	STIR	STIRRUP			
A-ROD	ANCHOR ROD	ELECT	ELECTRICAL	LSH	LONG SIDE HORIZONTAL	STIFF	STIFFENER			
ASPH	ASPHALT	EL	ELEVATION	LP	LOW POINT	STL	STEEL			
AVG	AVERAGE	ELEV	ELEVATOR	LWT	LIGHT WEIGHT	STR	SEISMIC STRAP			
B, BOT	BOTTOM	EMBED	EMBEDMENT	MAX	MAXIMUM	STRUCT	STRUCTURAL			
BCE	BOTTOM CHORD EXTENSION	ENG	ENGINEER	MC	MOMENT CONNECTION ()	SWT	SELF WEIGHT			
BCP	BORED CONCRETE PILE	EOD	EDGE OF DECK	MECH	MECHANICAL	SYMM	SYMMETRICAL			
BEW	BOTTOM EACH WAY	EOS	EDGE OF SLAB	MEZZ	MEZZANINE	t	THICKNESS			
BH	BOREHOLE	ES	EACH SIDE	MF	MOMENT FRAME	TB	TRANSFER BEAM			
BL	BOTTOM LOWER LAYER	EQ	EQUAL	MIN	MINIMUM	TBB	TOP BASIC BARS			
BOF	BOTTOM OF FOOTING	EW	EACH WAY	MISC	MISCELLANEOUS	T	TOP			
BOP	BOTTOM OF PILE	EX, EXIST	EXISTING	MJ	MOVEMENT JOINT	TDL	TENSION DEVELOPMENT LENGTH			
BP	BASE PLATE	EXT	EXTERIOR	ML	MIDDLE LAYER	TEW	TOP EACH WAY			
BRG	BEARING	FC	FUTURE COLUMN	NF	NEAR FACE	T&G	TONGUE AND GROOVE			
BRP	BEARING PLATE	FD	FLOOR DRAIN	NIC	NOT IN CONTRACT	TJ	TIE JOIST			
BSMT	BASEMENT	FF	FAR FACE	NOM	NOMINAL	TLL	TOP LOWER LAYER			
BUL	BOTTOM UPPER LAYER	FIN	FINISHED	NTS	NOT TO SCALE	TJO	TOP OF			
BUP	BOTTOM OF UNDERPINNING	FL	FLOOR	O/C	ON CENTER	TOB	TOP OF (GRADE) BEAM			
C	CAMBER	FMC	FULL MOMENT CONNECTION (FOR FULL MOMENT CAPACITY)	OD	OUTSIDE DIAMETER	TOC	TOP OF CONCRETE			
CA	COLUMN ABOVE ONLY (NO COLUMN BELOW)	FND	FOUNDATION	OF	OUTSIDE FACE	TOF	TOP OF FOOTING			
CANT	CANTILEVER	FTG	FOOTING	OPP	OPPOSITE	TOS	TOP OF STEEL			
CAT	CATEGORY (FOR AESS)	GA	GAUGE	OWSJ	OPEN WEB STEEL JOIST	TOP	TOP OF PILE			
CB	COLUMN BELOW ONLY (NO COLUMN ABOVE)	GALV	GALVANIZED	PAF	POWDER ACTUATED FASTENERS	TOW	TOP OF WALL			
CDL	COMPRESSION DEVELOPMENT LENGTH	GB	GRADE BEAM	PC	PILE CAP	TPC	TOP OF PILE CAP			
CEL	CUT OFF ELEVATION FOR PILES	GEN	GENERAL	PL	PLATE	TRANS	TRANSVERSE			
CIP	CAST-IN PLACE	GL	GRIDLINE	PROJ	PROJECT, PROJECTION	TSA	TENSION SPLICE 'A'			
CJ	CONTROL JOINT	GRD	GROUND	PS	PIPE SUPPORT	TSB	TENSION SPLICE 'B'			
CLR	CLEAR	h	TOTAL THICKNESS, SLAB THICKNESS AWAY FROM DROP PANEL	PT	POST TENSIONED	TUL	TOP UPPER LAYER			
CL	CENTRELINE	hd	SLAB OVERALL THICKNESS AT DROP PANEL	PTL	PRESSURE TREATED LUMBER	TYP	TYPICAL			
CMU	CONCRETE MASONRY UNITS	H, HORIZ	HORIZONTAL	R	RADIUS	U-BAR	'U' SHAPED BAR			
CNT	STEEL DECK CORE NOMINAL THICKNESS	(H)	HIGH BEAM	RA	ROOF ANCHOR	UDB	UNIFORMLY DISTRIBUTED BARS			
COMP	COMPOSITE	HC	HOLLOWCORE	RD	ROOF DRAIN	UIF	UNDERSIDE OF FOOTING			
COL	COLUMN	HD	HOLD DOWN	RDA	REBAR DOWEL ANCHORS, SEE GENERAL NOTES	UL	UPPER LEVEL			
CONC	CONCRETE	HDC	HOT DIPPED GALVANIZED	RE	RIGHT END	ULS	ULTIMATE LIMIT STATE			
CONT	CONTINUOUS	HEF	HORIZONTAL EACH FACE	REINF	REINFORCEMENT	UIS	UNDERSIDE			
CONT'D	CONTINUED	HIF	HORIZONTAL INSIDE FACE	REM	REMAINDER	UIN, UNO	UNLESS NOTED OTHERWISE			
CONST.J.	CONSTRUCTION JOINT	HH	HOOK EACH END	REQ'D	REQUIRED	UPT	UPTURNED			
CP	CONNECTION PLATE	HIC	HORIZONTAL IN CENTRE	REV	REVISION	V, VERT	VERTICAL, VERTICALS			
CPL	CAP PLATE	HMA	HOLLOW MASONRY ANCHORS, SEE GENERAL NOTES	RF	RIGID FRAME	VB	VERTICAL BRACING			
CS	COMPRESSION LAP SPLICE	HOF	HORIZONTAL OUTSIDE FACE	RL	REFERENCE LINE	VEF	VERTICAL EACH FACE			
COV	CLEAR COVER	HP	HIGH POINT	RSS	RETAINED SOIL SYSTEM	VIF	VERTICAL INSIDE FACE			
CW	COMPLETE WITH, CONNECT WITH	HSC	HORIZONTAL SLOTTED CONNECTION	RTU	ROOF TOP UNIT	VIC	VERTICAL IN CENTRE			
CWS	(SEE GENERAL NOTES)	IBI	INTEGRITY BARS INTERIOR	RET. WALL	RETAINING WALL	VOF	VERTICAL OUTSIDE FACE			
CLS	(SEE GENERAL NOTES)	IBE	INTEGRITY BARS EXTERIOR	R/W	REINFORCE WITH	VSC	VERTICALLY SLOTTED CONNECTION			
DCA	DRILLED CONCRETE ANCHOR, SEE GENERAL NOTES	IBA	INTEGRITY BARS ADDED	r.w.	REQUIRED WITH	WB	WALL BELOW			
DEMO	DEMOLITION	IBB	INTEGRITY BOTTOM BARS (THROUGHOUT)	SDF	STEP DOWN FOOTING (IN DIRECTION OF ARROW)	WC	WIND COLUMN			
DET	DETAIL	ID	INSIDE DIAMETER	SEC	SECTION	w/o	WITHOUT			
D.FIR-L	DOUGLAS FIR-LARCH	INT	INTERIOR	SIM	SIMILAR	WP	WORK POINT			
DIA, Ø	DIAMETER	IF	INSIDE FACE	SJ	STEEL JOIST	WSP-S	WSP STRUCTURAL			
DIV	DIVIDER BEAM	JG	JOIST GIRDER	SL	SLAB, SHELF ANGLE	WWF	WELDED WIRE FABRIC			
DMA	DRILLED MASONRY ANCHOR, SEE GENERAL NOTES	KB	KNEE BRACING	SLLB	SHORT LEG BACK TO BACK	ZRP	ZINC RICH PAINT			
DN	DOWN	(L)	LOW BEAM	SLS	SERVICEABILITY LIMIT STATE	Yc	CONCRETE DENSITY			
DNW	DOUBLE NUT AND WASHER	2L	BACK TO BACK ANGLES	SOG	SLAB-ON-GRADE					


DEC 2021

LOADING ABBREVIATIONS		TG-ABBR-02
Af	FACTORED AXIAL LOAD IN kN (+ INDICATES TENSION, - INDICATES COMPRESSION)	
Cf	FACTORED COMPRESSION IN kN	
f _c	COMPRESSIVE STRENGTH OF CONCRETE, IN MPa	
f _y	YIELD STRENGTH IN MPa	
Mf	FACTORED MOMENT IN kN.m	
M _{fx}	FACTORED MOMENT ABOUT X-X (STRONG) AXES IN kN.m	
M _{fy}	FACTORED MOMENT ABOUT Y-Y (WEAK) AXES IN kN.m	
MPL	MASONRY PARTITION DEAD LOAD IN kN/m	
MTf	FACTORED TORSION IN kN.m	
Rf	FACTORED VERTICAL REACTION IN kN	
RHf	FACTORED HORIZONTAL REACTION IN kN	
P	SPECIFIED (UNFACTORED) POINT LOAD IN kN	
Pf	FACTORED POINT LOAD IN kN	
Vf	FACTORED SHEAR IN kN	
Tf	FACTORED TENSION IN kN	
WT	WEIGHT OF MECHANICAL EQUIPMENT	

ARCHITECTURE | 49

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CORNWALL, ONTARIO, CANADA K6J 3E5
TEL: 613-933-9604 | FAX: 613-936-0335 | ARCHITECTURE49.COM


CONSULTANT - SUB CONSULTANT:



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OTTAWA ONTARIO CANADA K2B 8K2
TEL: 1-613-829-2800 | FAX: 1-613-829-8299
WWW.WSP.COM

PROJECT NUMBER: CAO060380.9055

SEAL:



LICENCED PROFESSIONAL ENGINEER
2026.04.16
J. FULLER
ADVANCE OF ONTARIO

CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #:

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING, SEPTIC AND SITE
WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

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ISSUED FOR - REVISION:

IS	RE	DATE	DESCRIPTION
4		2026/04/15	ISSUED TO UCDSB FOR TENDER
3		2026/02/27	ISSUED TO UCDSB FOR 90% REVIEW
2		2026/01/12	RE-ISSUED TO UCDSB FOR 60% REVIEW
1		2025/12/05	ISSUED TO UCDSB FOR 60% REVIEW

PROJECT NO:

CAO060380.9055

DATE:

05/05/23

ORIGINAL SCALE:

1 : 100

IF THIS BAR IS NOT 25mm
LONG, ADJUST YOUR
PLOTING SCALE.

DESIGNED BY:

MMS

DRAWN BY:

MM

CHECKED BY:

IF

DISCIPLINE:

STRUCTURAL

TITLE:

TYPICAL DETAILS

SHEET NUMBER:

ST-L-105

SHEET #:

2 OF 4

ISSUE:

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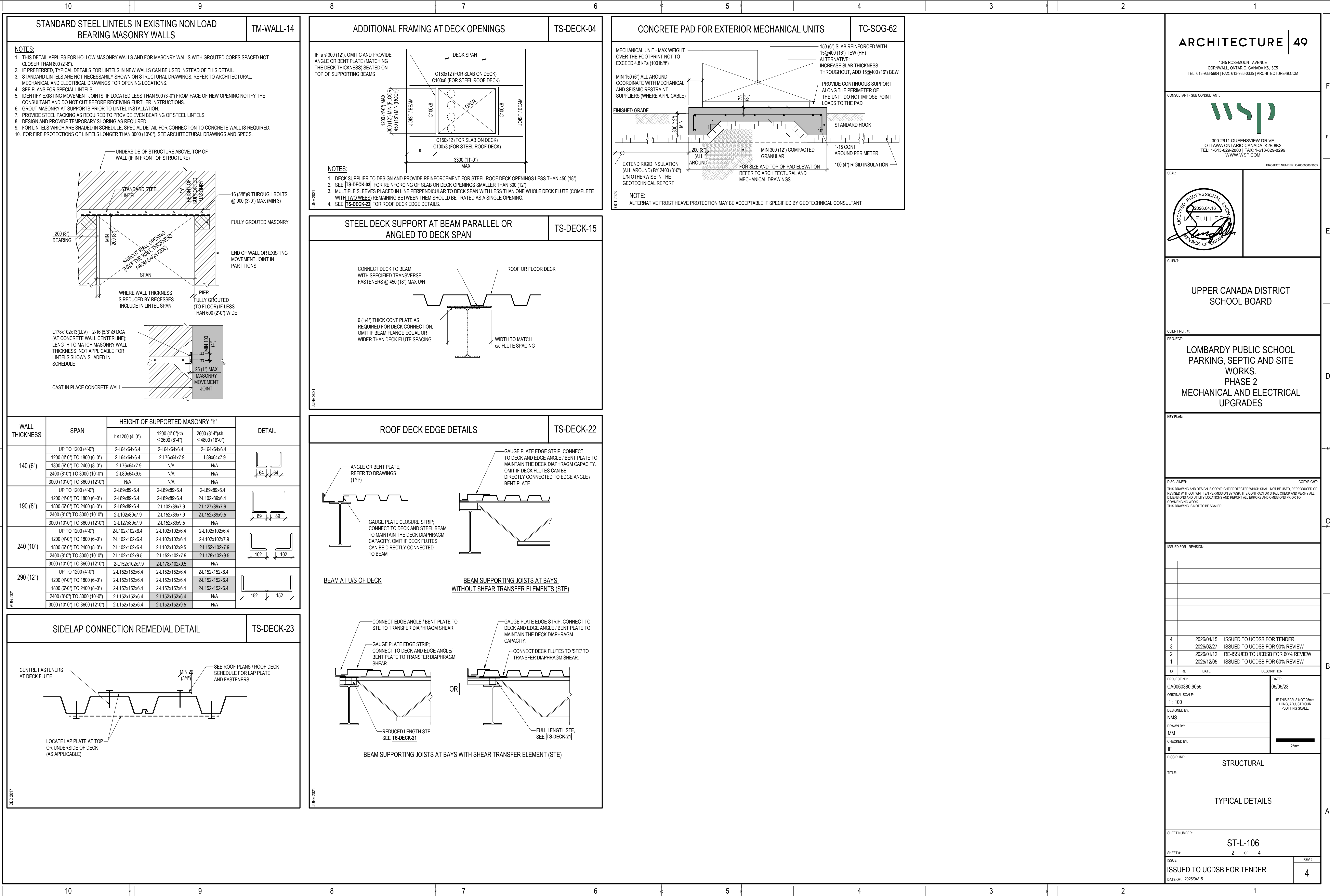
REV #:

4

DATE OF:

2025/04/15

Autodesk Draw (INCR) Alias Projects - R25 - C25CA0060380.9055 Lombardy Public School STR-R25.rvt
2026/04/16 10:38:40 AM

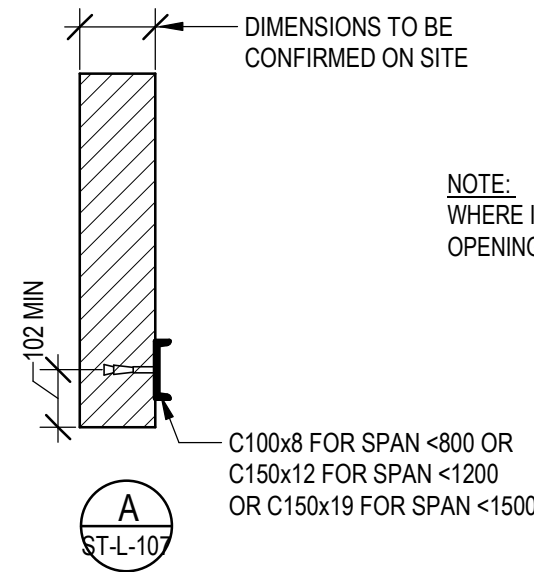
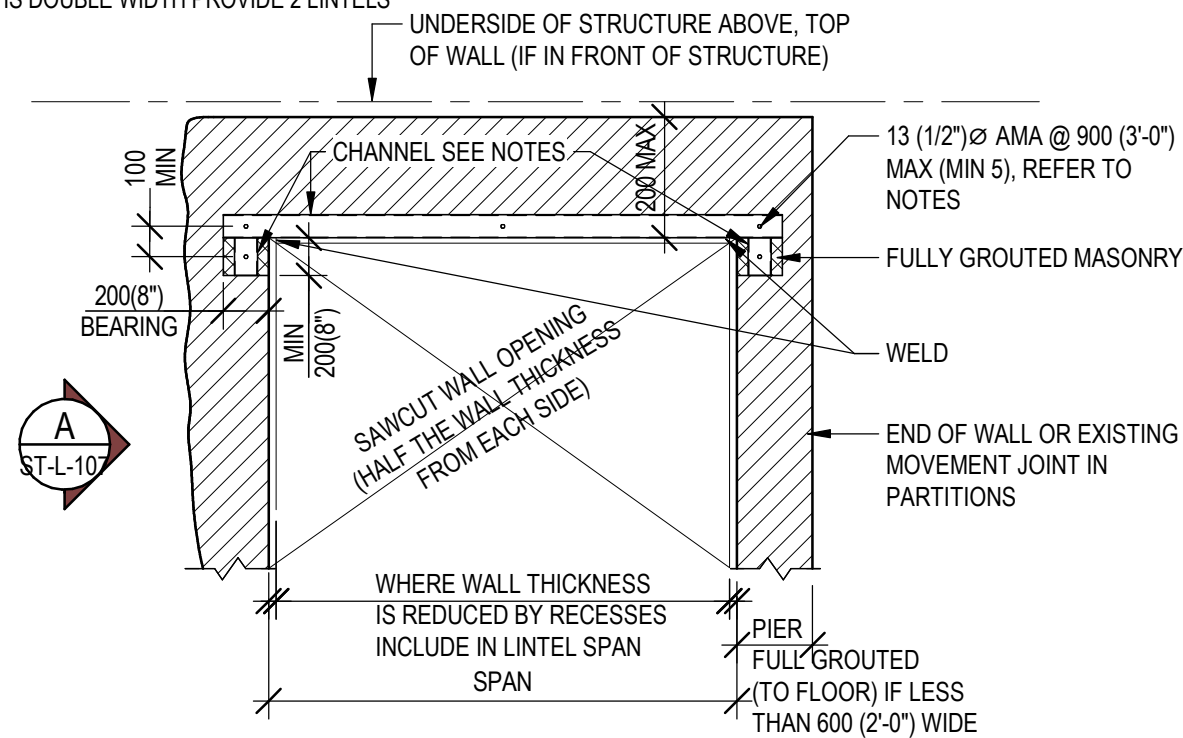


Autodesk Drawings (NCR) - R25 - C25C-A0060380-9055 Lombardy Public School STR-R25.dwg
2026-04-16 10:38:45 AM

STANDARD STEEL LINTELS IN EXISTING 140 OR 190 WIDE LOAD BEARING MASONRY WALLS ABOVE EXISTING OPENINGS

PD-01

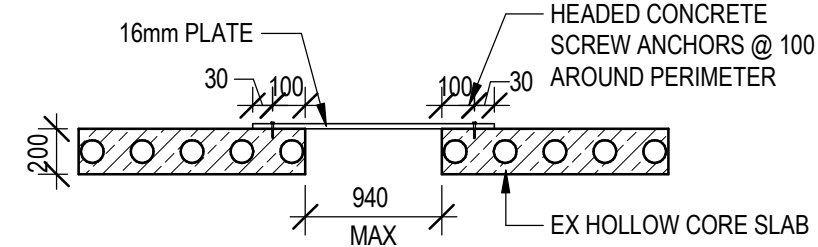
- NOTES:
- SEE PLANS FOR SPECIAL LINTELS.
 - IDENTIFY EXISTING MOVEMENT JOINTS. IF LOCATED LESS THAN 900 (3'-0") FROM FACE OF NEW OPENING NOTIFY THE CONSULTANT AND DO NOT CUT BEFORE RECEIVING FURTHER INSTRUCTIONS.
 - GROUT MASONRY AT SUPPORTS PRIOR TO LINTEL INSTALLATION.
 - PROVIDE STEEL PACKING AS REQUIRED TO PROVIDE EVEN BEARING OF STEEL LINTELS.
 - DESIGN AND PROVIDE TEMPORARY SHORING AS REQUIRED.
 - WHERE ANCHORS TO BE INSTALLED, FULLY GROUT CORES PRIOR TO INSTALLATION OF ANCHORS.
 - INSTALL ANCHORS AND BOLTS IN CELLS OF MASONRY BLOCK, NOT INTO GROUT JOINTS.
 - IF WALL IS DOUBLE WIDTH PROVIDE 2 LINTELS



NOTE:
WHERE INSTALLED ABOVE AN EXISTING
OPENING, DO NOT DAMAGE EXISTING LINTELS

OPENING CLOSURE AT HOLLOW
CORE SLAB

PD-02



ARCHITECTURE | 49

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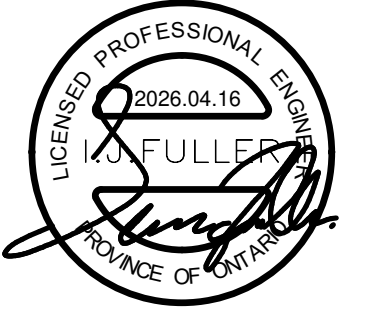
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TEL: 1-613-829-2800 | FAX: 1-613-829-8299
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PROJECT NUMBER: CA0060380.9055

SEAL:



CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #:

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING, SEPTIC AND SITE
WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES


KEY PLAN:

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1		2025/12/05	ISSUED TO UCDSB FOR 60% REVIEW

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DESIGNED BY: MMS	
DRAWN BY: MM	
CHECKED BY: IF	

DISCIPLINE: STRUCTURAL	
TITLE: PROJECT DETAILS	
SHEET NUMBER: ST-L-107	
SHEET #: 2 OF 4	REV #: 4
ISSUED TO UCDSB FOR TENDER	
DATE OF: 2026/04/15	

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PROJECT NO: CA0060380.9005			DATE: DEC 2025
ORIGINAL SCALE: As indicated			IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: NMS			
DRAWN BY: MM			
CHECKED BY: IF			
			 25mm

TITLE: _____


SHEET NUMBER: _____

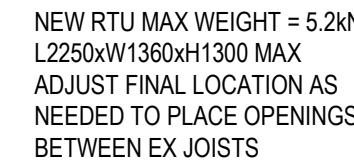
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DATE OF: 2026/04/15

1 PARTIAL ROOF PART PLAN 1
ST-L-200 1:100

NOTE:


- NOTE:
1. PROVIDE LINTELS ABOVE OPENINGS IN BEARING WALLS AS PER PD-01
 2. FOR LINTELS IN NON-LOAD BEARING WALLS PROVIDE LINTELS AS PER TM-WALL-14
 3.  EX LOAD BEARING BLOCK WALL
 4. ML1 INDICATES A LINTEL <800 AS PER PD-01
ML2 INDICATES A LINTEL <1200 AS PER PD-01
ML3 INDICATES A LINTEL <1500 AS PER PD-01



CONDUITS TO EXIT BUILDING FROM CEILING SPACE, DROP VERTICALLY ON BUILDING TO BELOW GRADE. REFER TO EL-L-101 FOR FURTHER DETAIL. PROVIDE PROTECTIVE STAINLESS STEEL COVER.

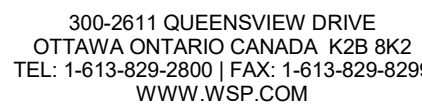
ST-L-201 1:100

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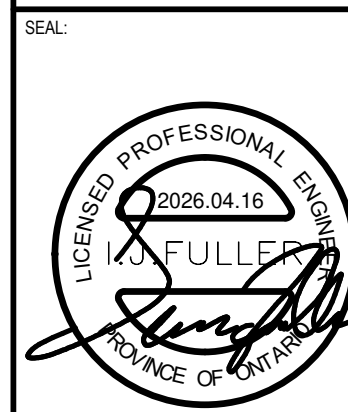
1. PROVIDE LINTELS ABOVE OPENINGS IN BEARING WALLS AS PER PD-01 AND PD-03
2. FOR LINTELS IN NON-LOAD BEARING WALLS PROVIDE LINTELS AS PER TM-WALL-14
3.  EX LOAD BEARING BLOCK WALL
4. ML1 INDICATES A LINTEL <800 AS PER PD-01 OR PD-03
 ML2 INDICATES A LINTEL <1200 AS PER PD-01 OR PD-03
 ML3 INDICATES A LINTEL <1500 AS PER PD-01 OR PD-03

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CONSULTANT - SUB CONSULTANT



PROJECT NUMBER: CA060380.9065



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KEY PLAN

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DRAWN BY: MM			
CHECKED BY: JF			
			 25mm

DISCIPLINE: STRUCTURAL

TITLE:

PARTIAL ROOF PART PLAN 2

SHEET NUMBER:

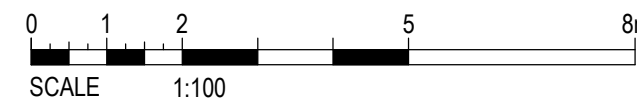
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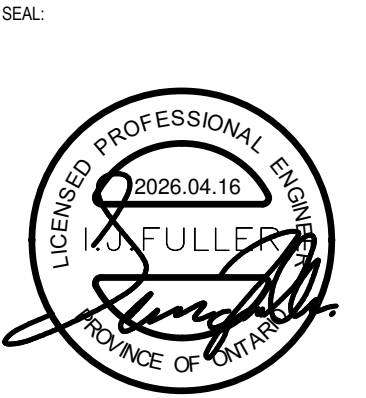
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IF			

DISCIPLINE: STRUCTURAL

TITLE: OVERALL ROOF PLAN

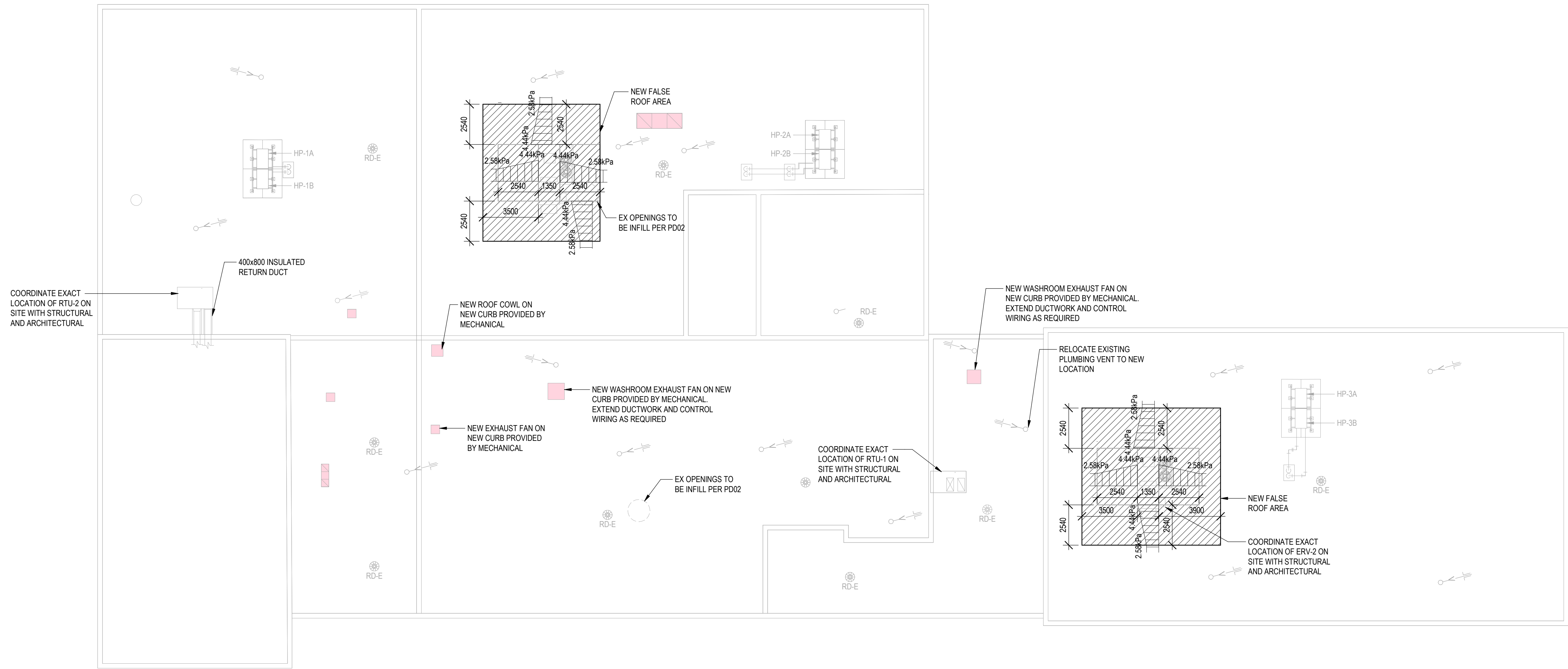
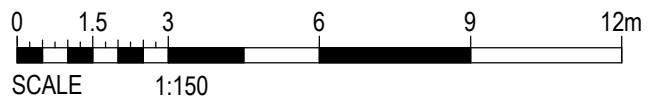
SHEET NUMBER:

ST-L-202

SHEET #: 3 OF 4

ISSUE:
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DATE OF: 2026/04/15

1



ST-L-202 1 : 150

1. SEE GENERAL NOTES AND TYPICAL DETAILS ON ST-L-100 SERIES DRAWINGS.
2. ROOF IS LEVEL WITH EXISTING. ASSUMED DATUM ELEVATION IS 3410.
3. UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS FOR FALSE ROOF STRUCTURE ARE:
LIVE LOAD (SNOW) = 2.58 kPa MINIMUM + SNOW PILING AREAS NOTED ON PLAN.
LIVE LOAD (RAIN PONDING) IS INDICATED ON PLAN IF AND WHERE IT EXCEEDS SNOW LOAD.
SUPERIMPOSED DEAD LOAD = 0.6 kPa (ROOFING) = 0.6 kPa

SELF WEIGHT (SWT) = 0.1 kPa (METAL DECK) + 0.4 kPa (PURLINS) = 0.5 kPa
4. DESIGN AND CONNECT STEEL DECK, JOISTS AND BRIDGING FOR NET FACTORED UPLIFT OF 0.85 kPa DUE TO WIND.
5. UNLESS OTHERWISE NOTED ON PLANS OR DETAILS, THE FOLLOWING DATA APPLY:

5.1. WHERE BEAMS ARE NOTED THUS ±X, X IS THE DISTANCE TO TOP OF BEAM FROM DATUM ELEVATION.

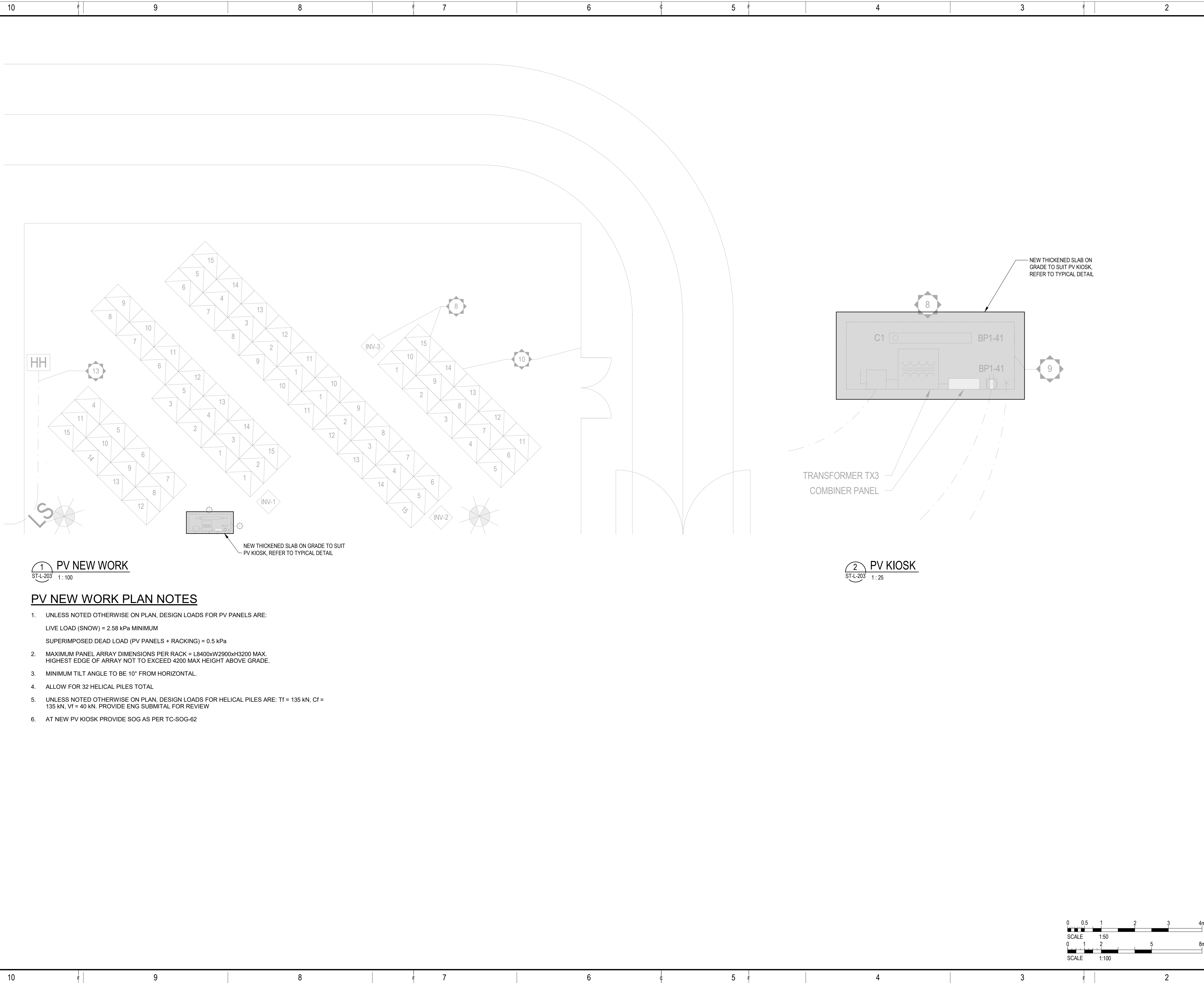
5.2. FRAME SIDES OF DECK OPENINGS AS PER TYPICAL DETAIL TS-DECK-04.

5.3. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS L51x51x6.4 AT ALL ROOF DECK EDGES.
6. "RD1" ON PLAN DENOTES 38 DEEP STEEL ROOF DECK, MIN. CNT=0.91. FASTEN DECK AS PER ROOF AND FLOOR DECK ASSEMBLIES GENERAL NOTES.
7. WHERE MECHANICAL LOADS ARE SHOWN ON PLAN, THE VALUES ARE ASSUMED. CONFIRM EXACT MAGNITUDE AND POSITION OF MECHANICAL LOADS WITH MECHANICAL SHOP DRAWINGS AND NOTIFY WSP-S IF ASSUMED VALUES ARE EXCEEDED.
8. ALL CUTTING AND CORING THROUGH PRECAST SLABS TO BE REVIEWED AND APPROVED IN WRITING BY PRECAST SUPPLIER.
9. FOR FLOOR AREAS, SEE FLOOR FRAMING PLAN NOTES ON DRAWING ST-L-201.
10. FOR EXACT LOCATIONS OF OPENINGS AND UNITS REFER TO MECH

76 (3") DECK FASTENING PATTERNS

MARK	DESCRIPTION	TRANSVERSE (FRAME) FASTENERS PATTERN & TYPE	SIDE LAP CONNECTORS	FACTORED DIAPHRAGM SHEAR (kN/m)	REMARKS
RDx1	38 GALVANIZED STEEL DECK MIN CNT=0.91	914/7 PAF	#10SS SCREWS@75		

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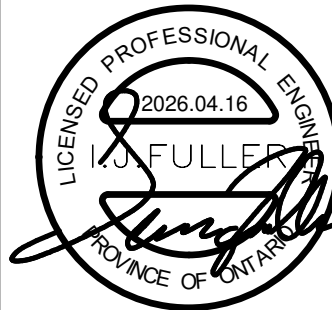
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PROJECT NUMBER: CA0060380.9055

SEAL:



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CLIENT REF. #:

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DISCIPLINE: STRUCTURAL

TITLE:

PV NEW WORK PARTIAL PLAN

SHEET NUMBER:

ST-L-203

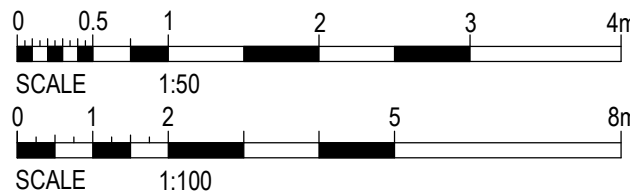
SHEET # 3 OF 4

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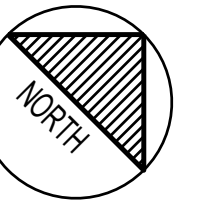
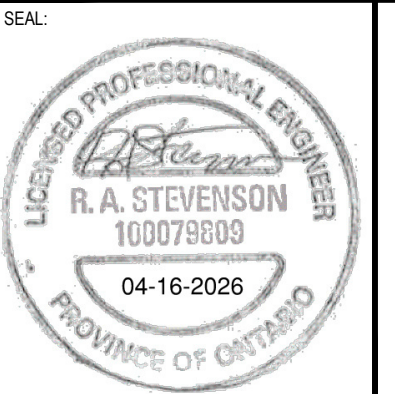
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CHECKED BY: AS			
			 25mm

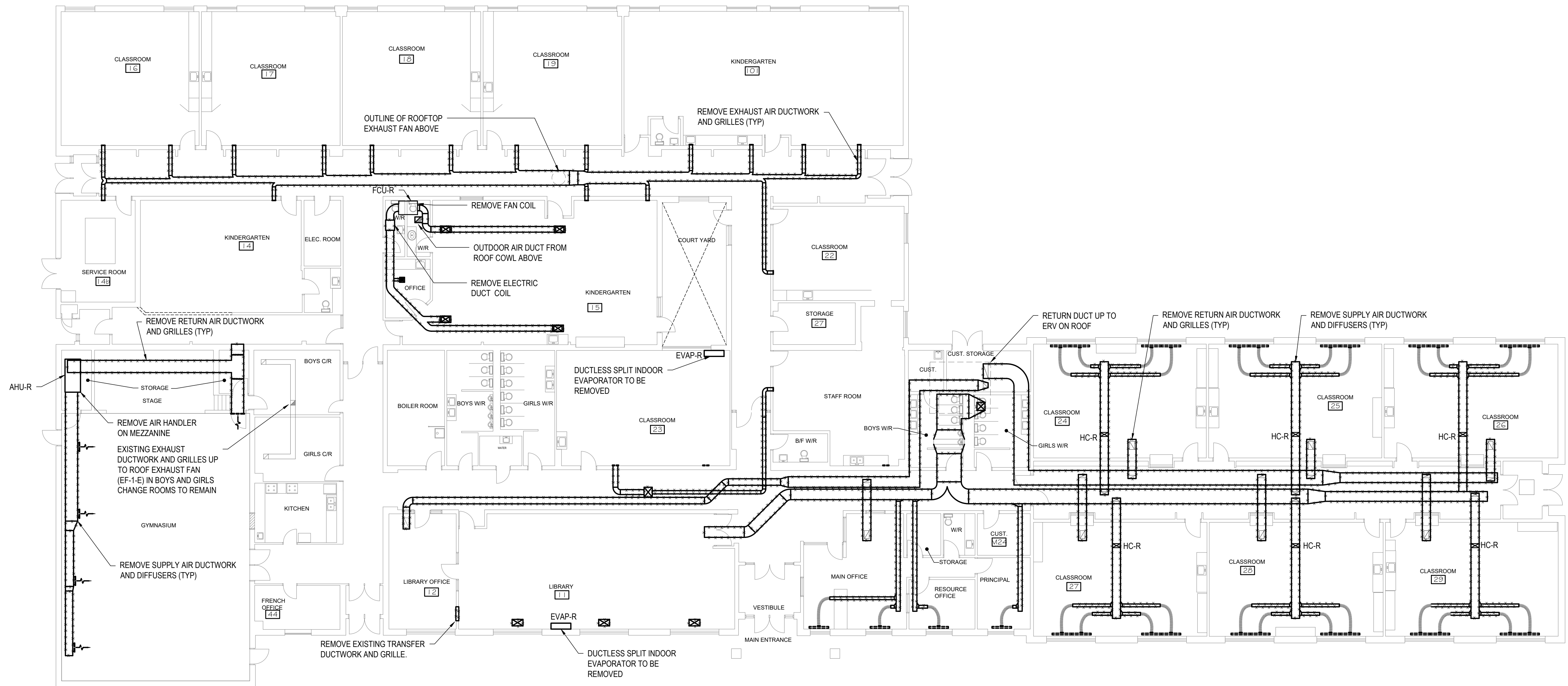
TITLE:

HVAC SYSTEMS
GROUND FLOOR
DEMOLITION

ME-L-100

8

DATE OF: 15 APRIL 2026



SCALE: 1:150

1. DUCTWORK REMOVALS TO INCLUDE HANGERS, SUPPORTS, RISERS, FITTINGS AND ALL OTHER ASSOCIATED EQUIPMENT.
2. REMOVE ALL REDUNDANT DUCTWORK BACK TO MAIN AND CAP
3. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN MECHANICAL SERVICES WITHIN EXISTING STRUCTURE UNDER THIS CONTRACT THROUGHOUT DURATION OF CONSTRUCTION.
4. PATCH ALL WALL OPENINGS RESULTING FROM DUCTWORK REMOVAL FROM EXTERIOR WALLS.
5. REFER TO PROJECT PHASING REQUIREMENTS.

CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS OTHER MECHANICAL SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

10 9 8 7 6 5 4 3 2 1

F

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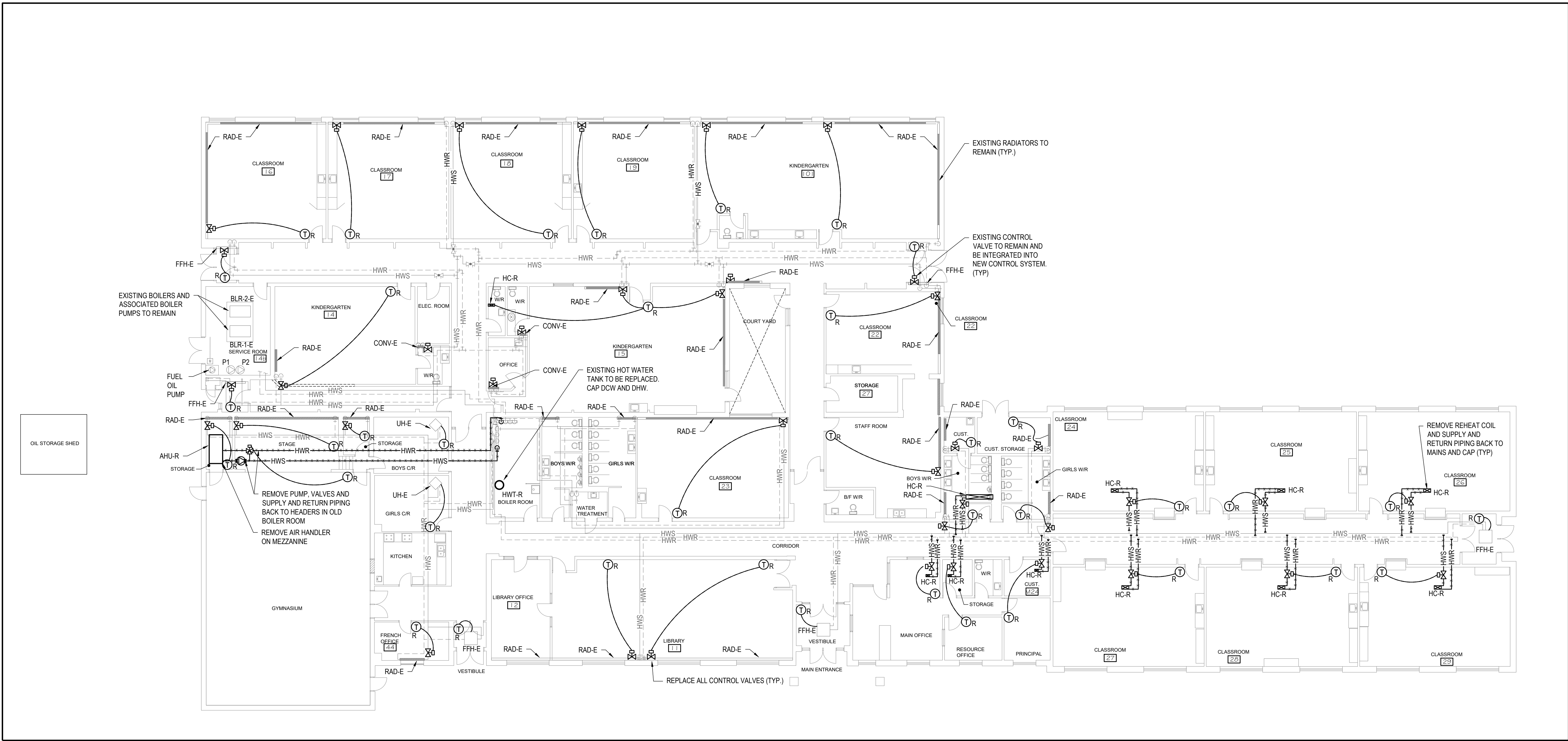
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10 9 8 7 6 5 4 3 2 1

DATE: 15 APRIL 2026

PROJECT: UCDSD DISTRICT SCHOOL BOARD - LOMBARDY PUBLIC SCHOOL - MECHANICAL AND ELECTRICAL UPGRADES - PHASE 2

BY: CHNEU/DENNIS



HYDRONIC SYSTEMS GROUND FLOOR DEMOLITION
SCALE: 1:150

- HYDRONIC DEMOLITION NOTES**
1. PIPING REMOVALS TO INCLUDE HANGERS, SUPPORTS, RISERS, VALVES AND ALL OTHER ASSOCIATED EQUIPMENT.
 2. REMOVE ALL REDUNDANT PIPING BACK TO MAIN AND CAP
 3. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN DRAINAGE AND VENTING OF SANITARY SERVICES WITHIN EXISTING STRUCTURE UNDER THIS CONTRACT THROUGHOUT DURATION OF CONSTRUCTION
 4. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN DOMESTIC HOT AND COLD WATER TO AREAS WITHIN EXISTING STRUCTURE WHICH MAY BE AFFECTED BY CONSTRUCTION WORK UNDER THIS CONTRACT THROUGHOUT THE DURATION OF CONSTRUCTION.
 5. REFER TO ARCHITECTURAL FOR CONSTRUCTION PHASING REQUIREMENTS.

- HVAC DEMOLITION NOTES**
1. DUCTWORK REMOVALS TO INCLUDE HANGERS, SUPPORTS, RISERS, FITTINGS AND ALL OTHER ASSOCIATED EQUIPMENT.
 2. REMOVE ALL REDUNDANT DUCTWORK BACK TO MAIN AND CAP
 3. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN MECHANICAL SERVICES WITHIN EXISTING STRUCTURE UNDER THIS CONTRACT THROUGHOUT DURATION OF CONSTRUCTION.
 4. PATCH ALL WALL OPENINGS RESULTING FROM DUCTWORK REMOVAL FROM EXTERIOR WALLS.
 5. REFER TO PROJECT PHASING REQUIREMENTS.

CONTRACT DRAWINGS
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R.A. STEVENSON
100079809
04-16-2026
PROVINCE OF ONTARIO

NORTH

CLIENT:

**UPPER CANADA DISTRICT
SCHOOL BOARD**

CLIENT REF. # : --

PROJECT:

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PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
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PROJECT NO: CA0060380.9055

DATE: APRIL 2026

ORIGINAL SCALE: 1:150

DESIGNED BY: ET, DC

DRAWN BY: ET, DC

CHECKED BY: AS

DISCIPLINE: MECHANICAL

TITLE: HYDRONIC SYSTEMS GROUND FLOOR DEMOLITION

SHEET NUMBER: ME-L-101

SHEET #: 3 OF 15

ISSUE: ISSUED TO UCDSB FOR TENDER

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3. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN MECHANICAL SERVICES WITHIN EXISTING STRUCTURE UNDER THIS CONTRACT THROUGHOUT DURATION OF CONSTRUCTION.
4. PATCH ALL WALL OPENINGS RESULTING FROM DUCTWORK REMOVAL FROM EXTERIOR WALLS.
5. REFER TO PROJECT PHASING REQUIREMENTS.

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DRAWN BY: ET_DC			
CHECKED BY: AS			
			 25mm

DISCIPLINE: MECHANICAL

TITLE: HVAC SYSTEMS
ROOF DEMOLITION

SHEET NUMBER:

MF-I -102

ISSUE: _____

DATE OF: 15 APRIL 2026

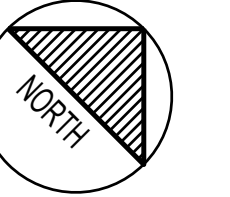
REV:

CONSULTANT - SUB CONSULTANT:

wsp

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SEAL:



CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES


KEY PLAN:

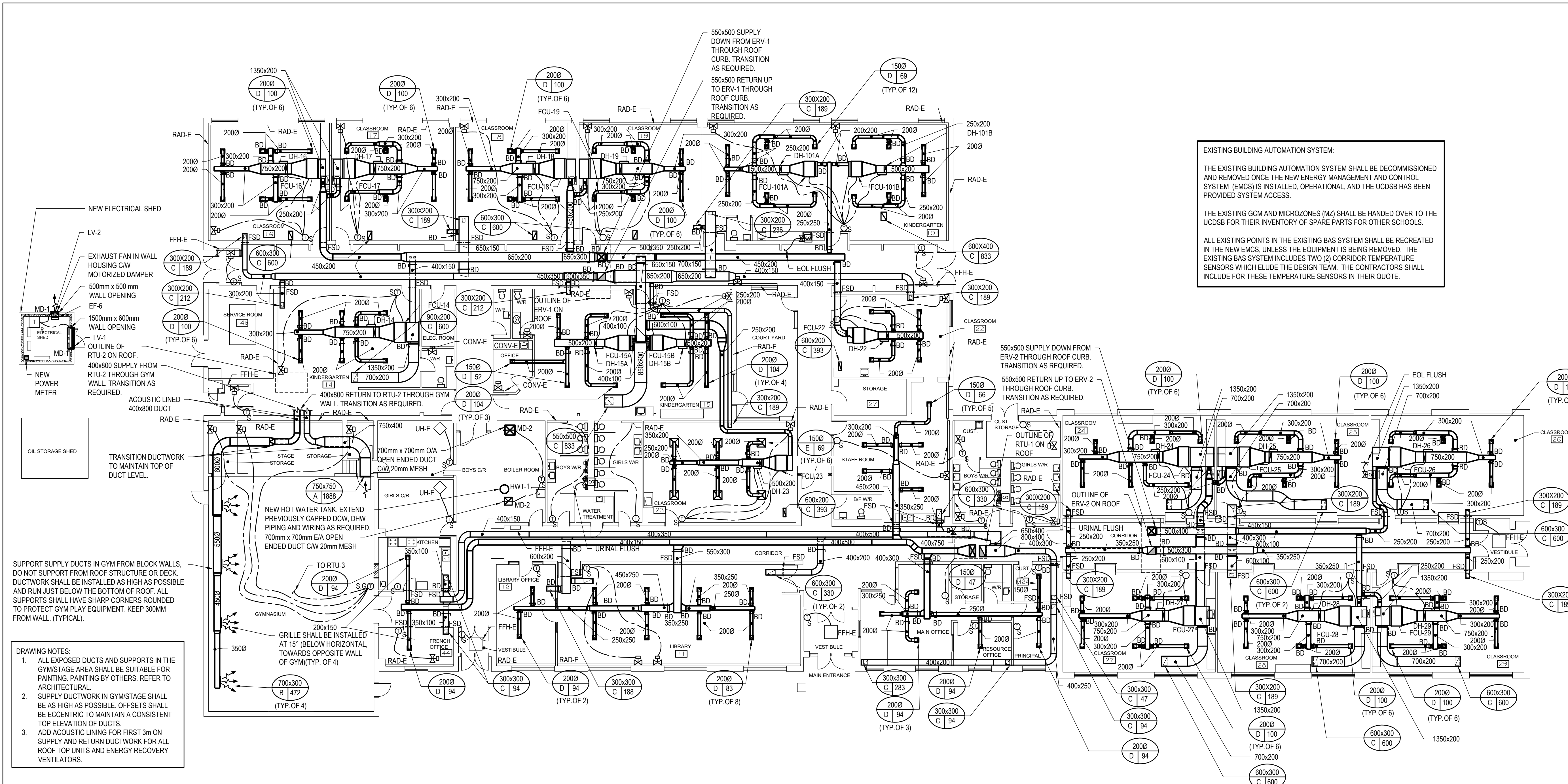
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IS	RE	DATE	DESCRIPTION
4		2026/04/15	ISSUED TO UCDSB FOR TENDER
3		2026/02/27	ISSUED TO UCDSB FOR 90% REVIEW
2		2026/01/09	ISSUED TO UCDSB FOR 60% REVIEW
1		2025/11/14	ISSUED TO UCDSB FOR 30% REVIEW

PROJECT NO: CA0060380.9055		DATE: APRIL 2026
ORIGINAL SCALE: 1:150		IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTING SCALE.  25mm
DESIGNED BY: ET, DC		
DRAWN BY: ET, DC		
CHECKED BY: AS		



HVAC SYSTEMS GROUND FLOOR RENOVATIONS
SCALE: 1:150

- DRAWING NOTES:
- ALL EXPOSED DUCTS AND SUPPORTS IN THE GYMSTAGE AREA SHALL BE SUITABLE FOR PAINTING. PAINTING BY OTHERS. REFER TO ARCHITECTURAL.
 - SUPPLY DUCTWORK IN GYMSTAGE SHALL BE AS HIGH AS POSSIBLE. OFFSETS SHALL BE ECCENTRIC TO MAINTAIN A CONSISTENT TOP ELEVATION OF DUCTS.
 - ADD ACOUSTIC LINING FOR FIRST 3m ON SUPPLY AND RETURN DUCTWORK FOR ALL ROOF TOP UNITS AND ENERGY RECOVERY VENTILATORS.

EXISTING BUILDING AUTOMATION SYSTEM:

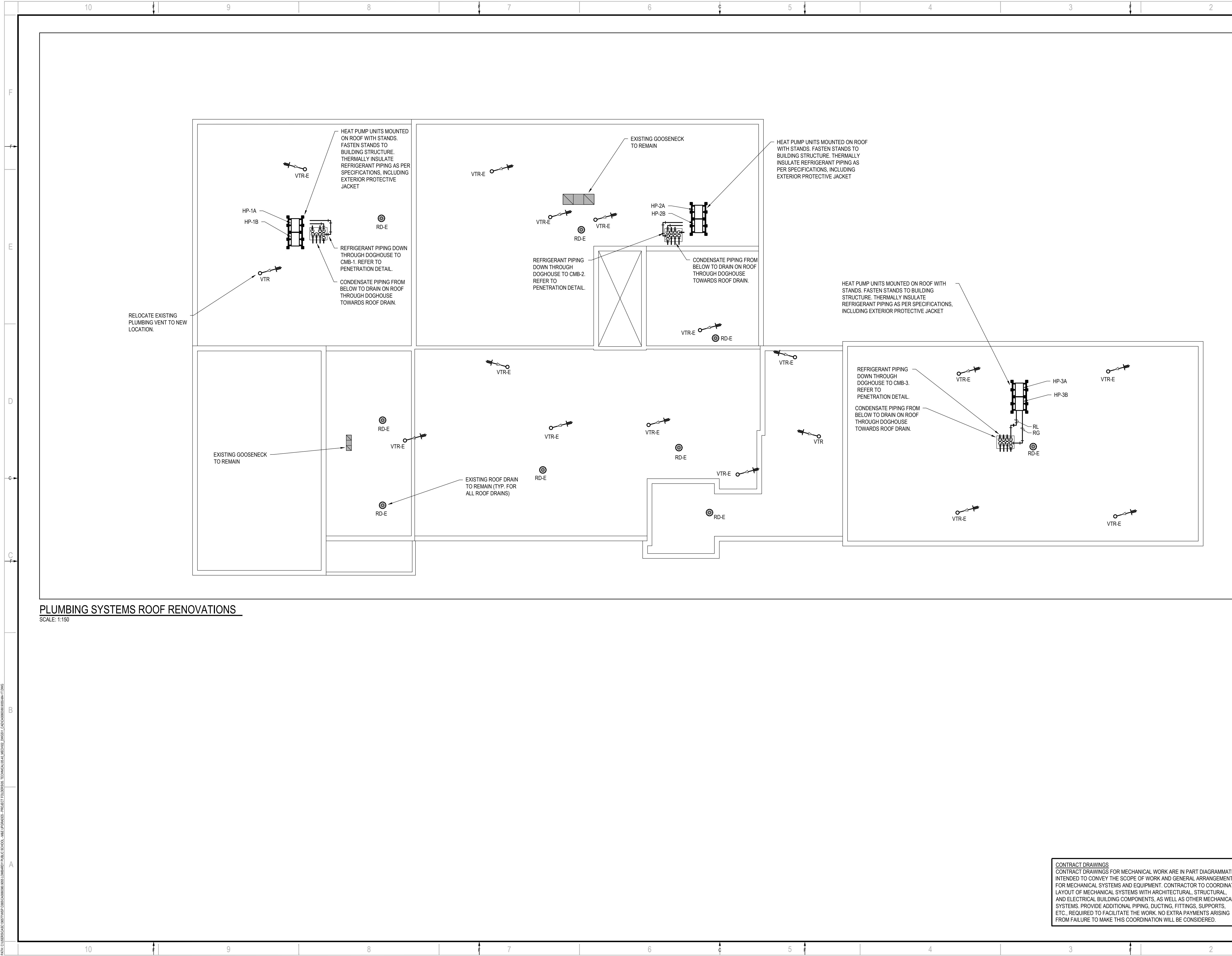
THE EXISTING BUILDING AUTOMATION SYSTEM SHALL BE DECOMMISSIONED AND REMOVED ONCE THE NEW ENERGY MANAGEMENT AND CONTROL SYSTEM (EMCS) IS INSTALLED, OPERATIONAL, AND THE UCDSB HAS BEEN PROVIDED SYSTEM ACCESS.

THE EXISTING GCM AND MICROZONES (M2) SHALL BE HANDED OVER TO THE UCDSB FOR THEIR INVENTORY OF SPARE PARTS FOR OTHER SCHOOLS.

ALL EXISTING POINTS IN THE EXISTING BAS SYSTEM SHALL BE RECREATED IN THE NEW EMCS. UNLESS THE EQUIPMENT IS BEING REMOVED. THE EXISTING BAS SYSTEM INCLUDES TWO (2) CORRIDOR TEMPERATURE SENSORS WHICH ELUDE THE DESIGN TEAM. THE CONTRACTORS SHALL INCLUDE FOR THESE TEMPERATURE SENSORS IN THEIR QUOTE.

CONTRACT DRAWINGS

CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC. INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS OTHER MECHANICAL SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.



ARCHITECTURE | 49

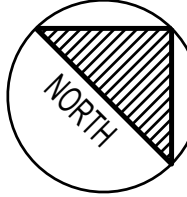
1345 ROSEMOUNT AVENUE
CORNWALL, ONTARIO, CANADA K6J 3E5
TEL: 613-933-6604 | FAX: 613-936-0335 | ARCHITECTURE49.COM

CONSULTANT - SUB CONSULTANT



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DESIGNED BY:	ET, DC		
DRAWN BY:	ET, DC		
CHECKED BY:	AS		

DISCIPLINE: MECHANICAL

TITLE:

HVAC SYSTEMS
ROOF RENOVATIONS

SHEET NUMBER:

ME-L-106

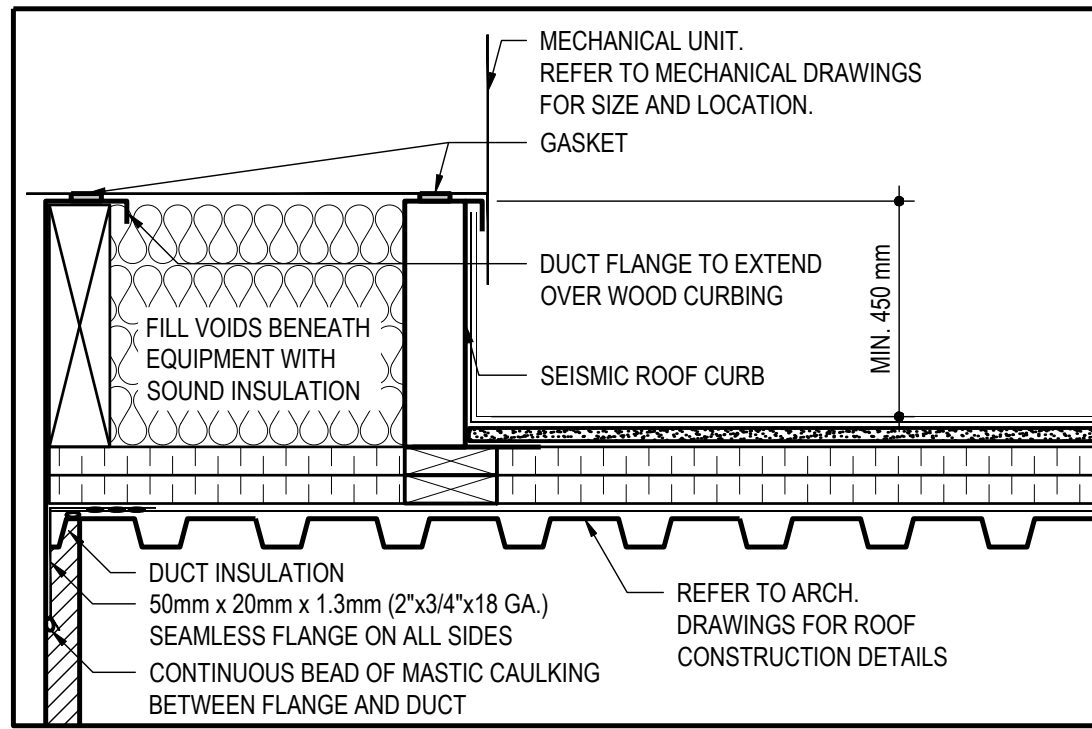
SHEET #:
8 OF 15

ISSUE:
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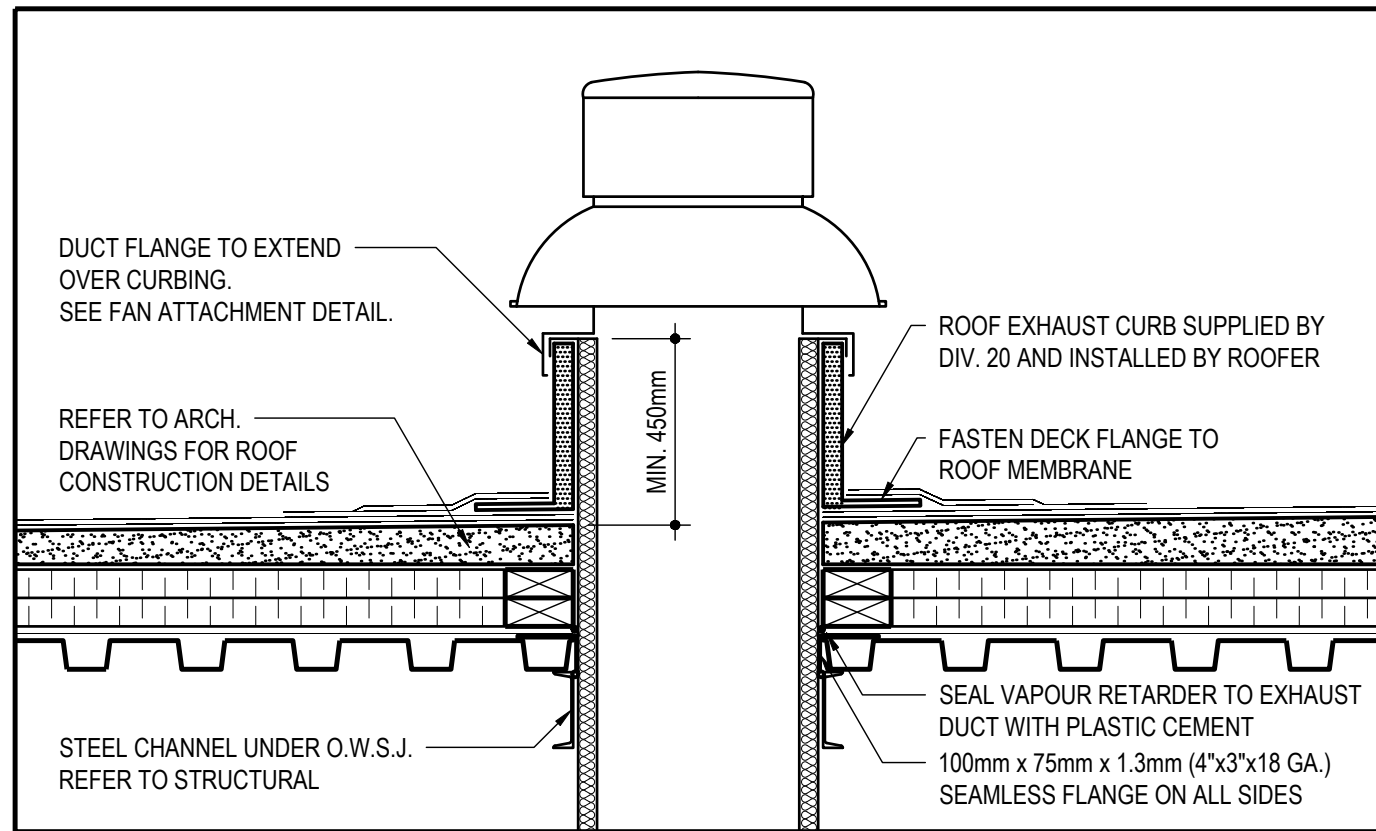
DATE OF: 15 APRIL 2026

REV #

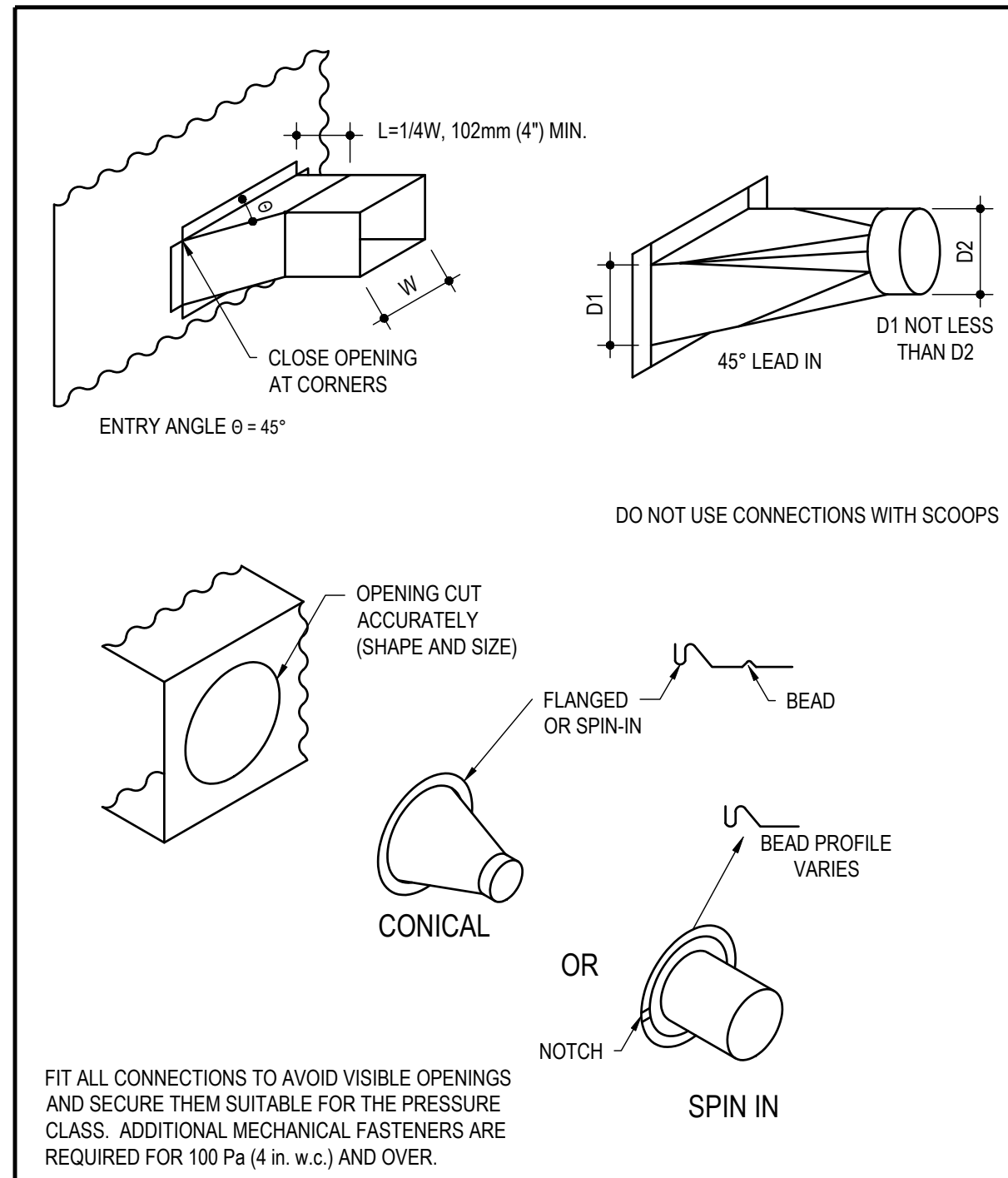
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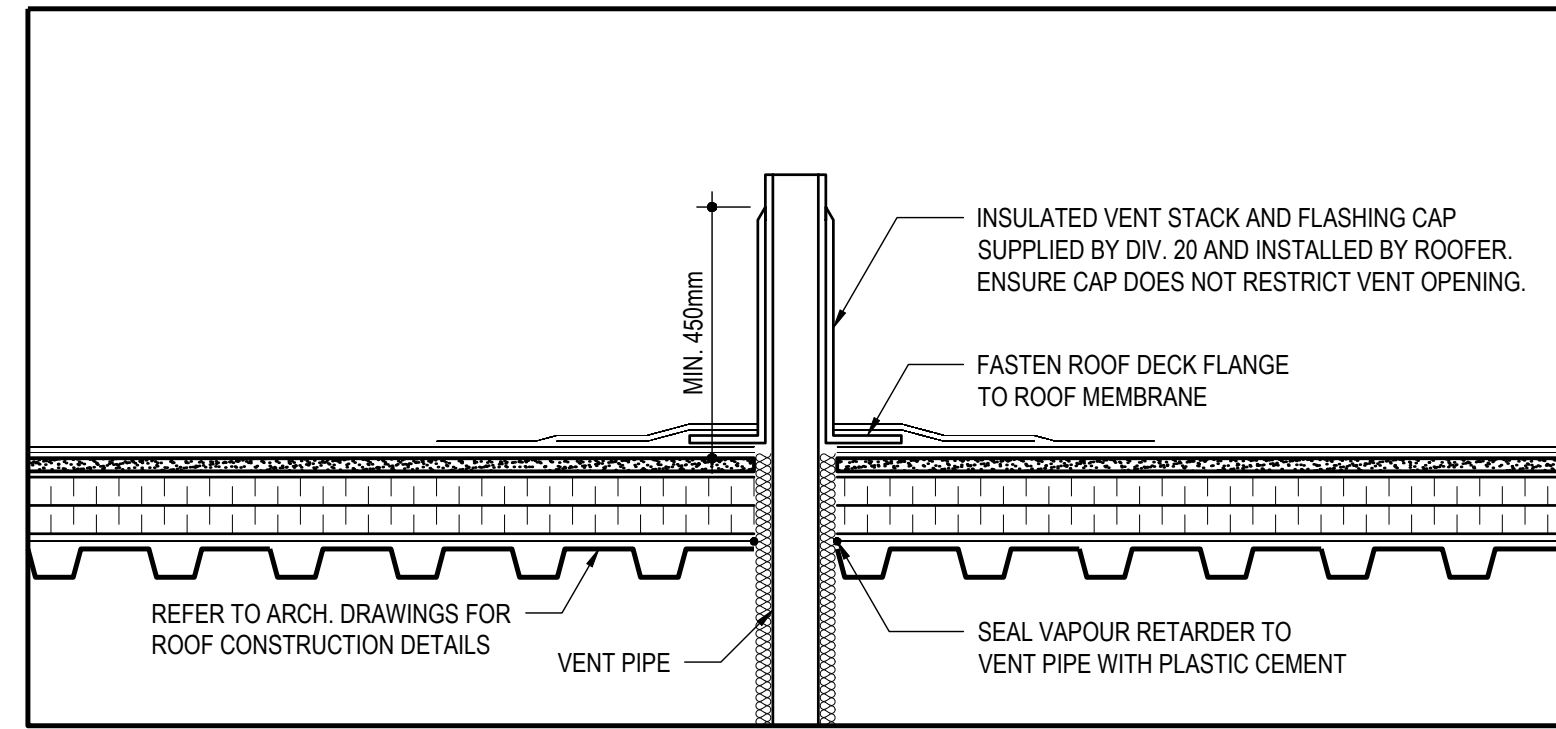
1 TYPICAL MECHANICAL UNIT CURB DETAIL
ME-D-501 SCALE: N.T.S.



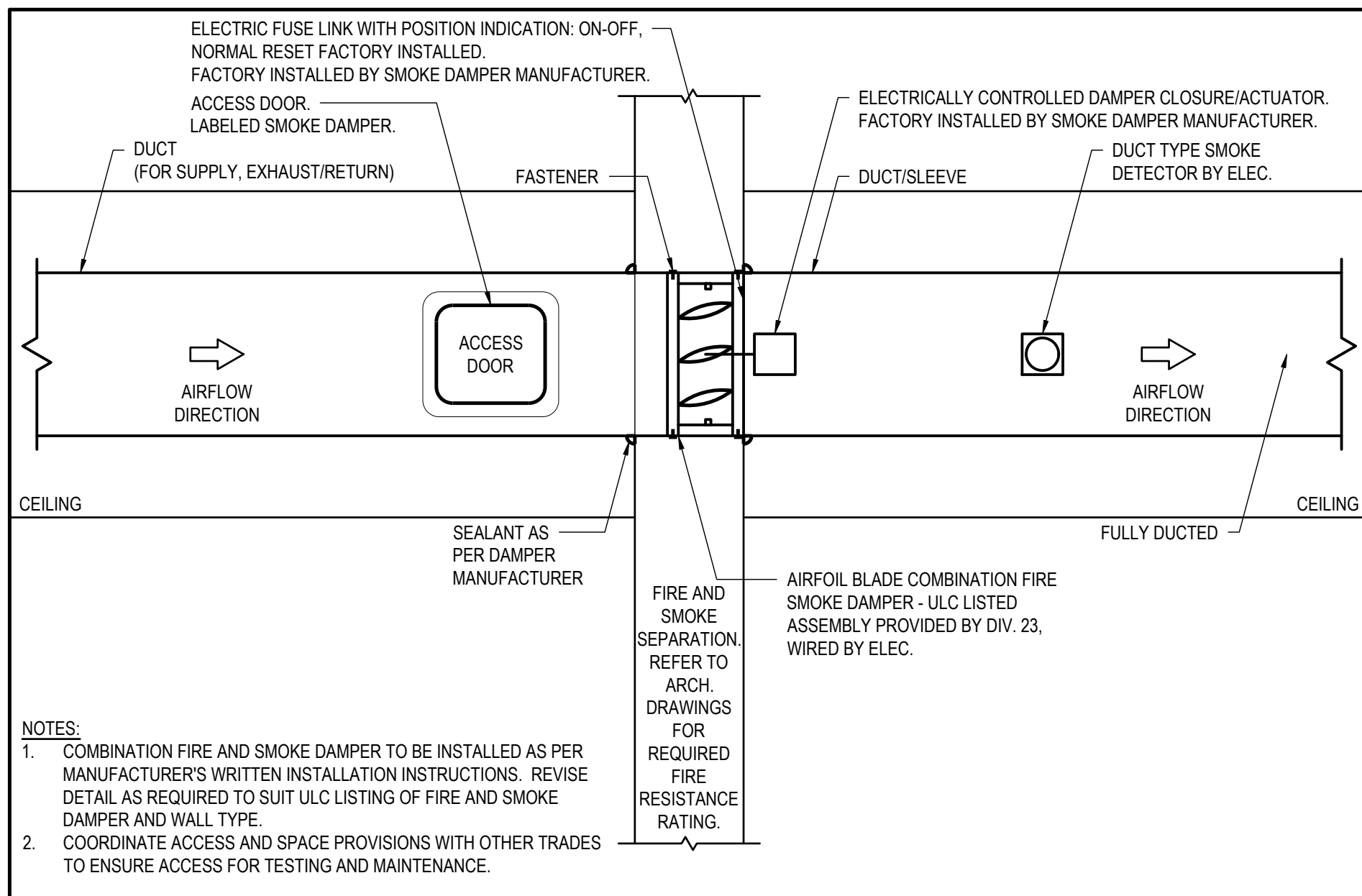
2 TYPICAL ROOF EXHAUSTER DETAIL
ME-D-502 SCALE: N.T.S.



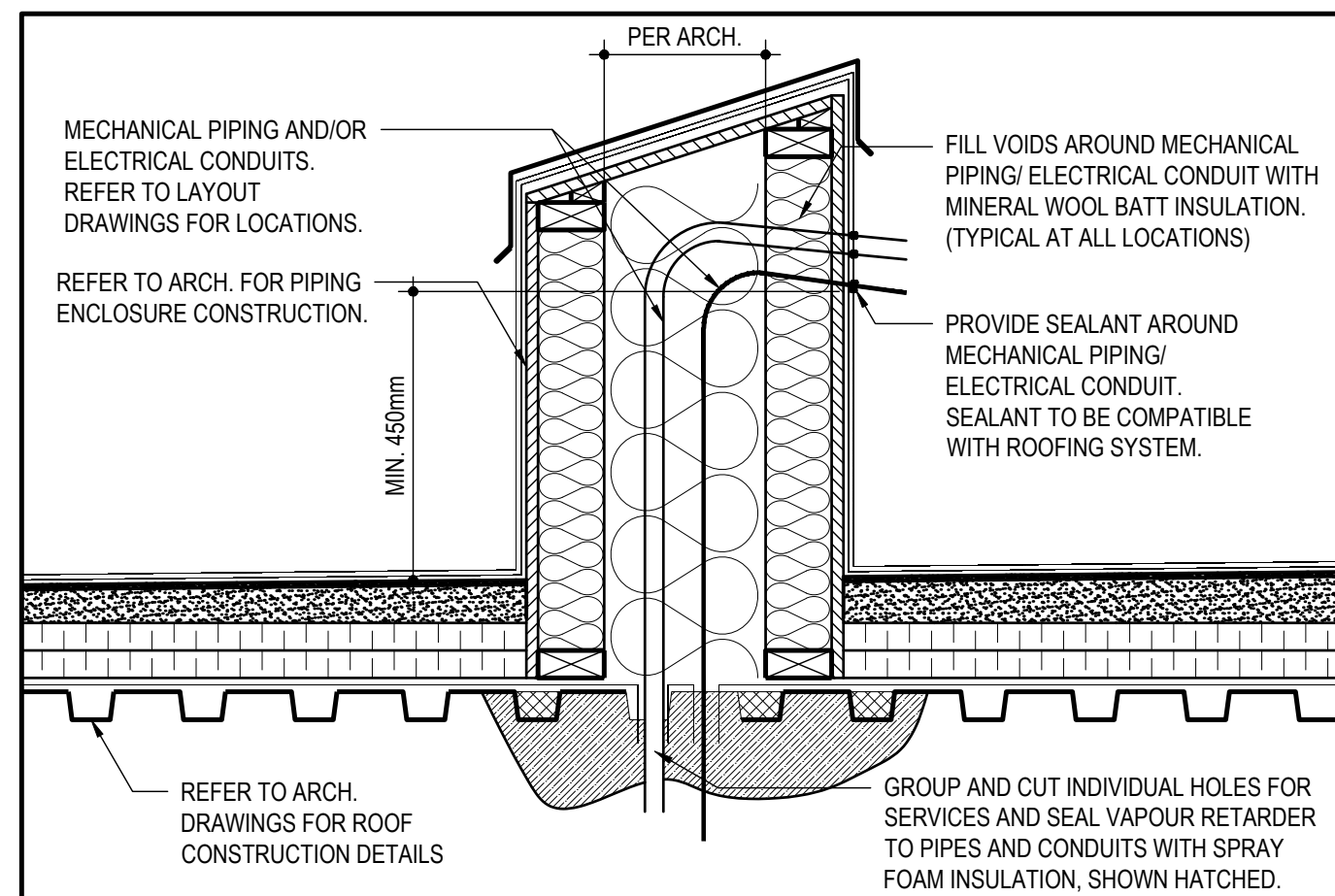
3 TYPICAL DUCT BRANCH CONNECTIONS
ME-D-503 SCALE: N.T.S.



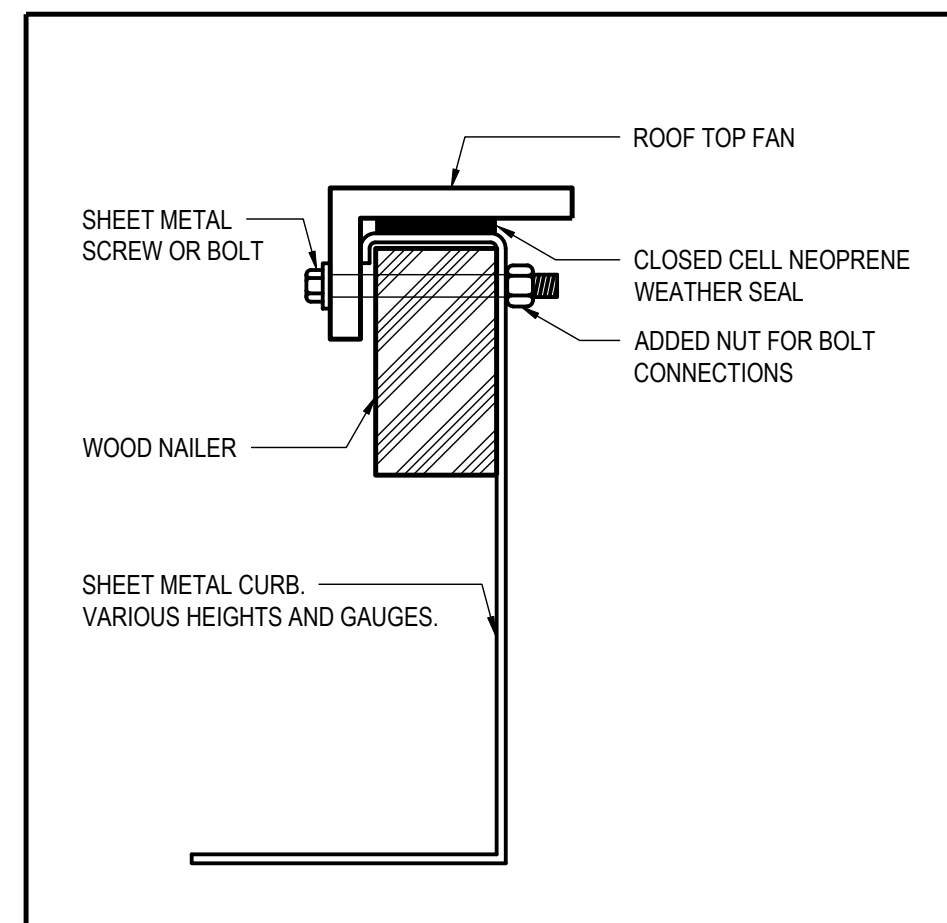
4 TYPICAL PLUMBING VENT DETAIL
ME-D-504 SCALE: N.T.S.



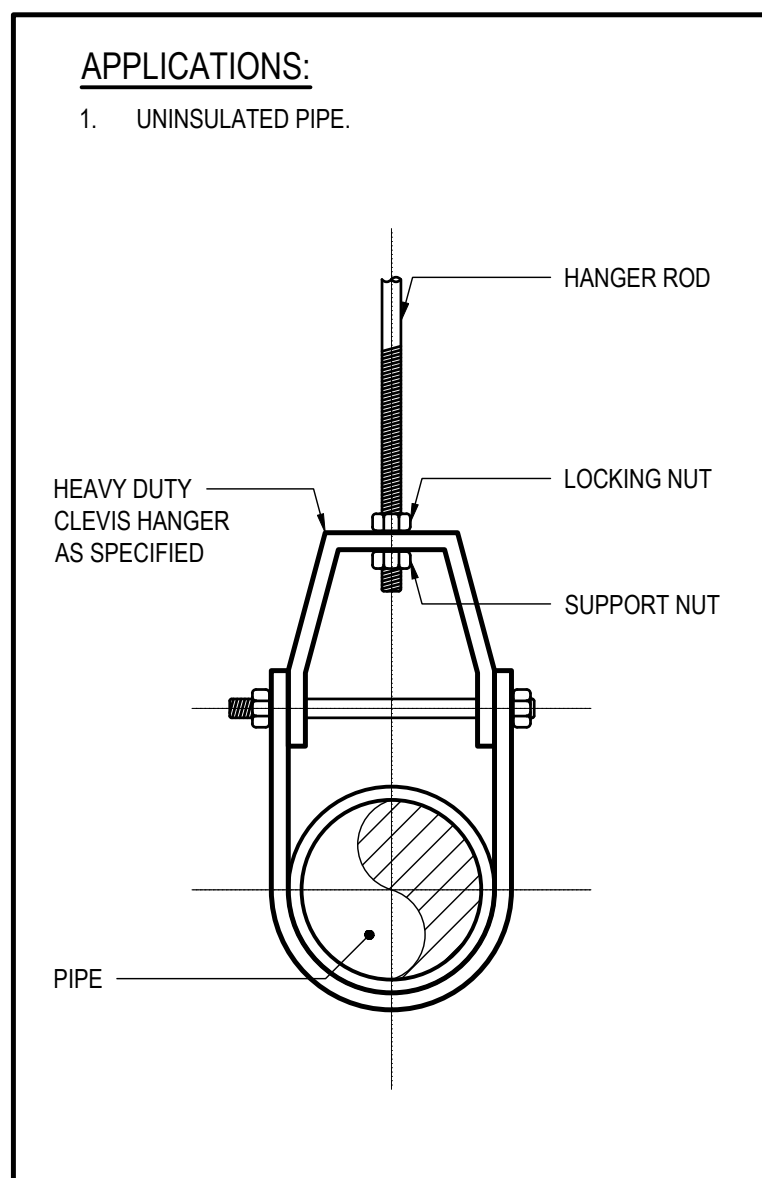
5 TYPICAL COMBINATION FIRE AND SMOKE DAMPER (FSD) DETAIL DUCTWORK THROUGH VERTICAL FIRE SEPARATION (FULLY DUCTED)
ME-D-505 SCALE: N.T.S.



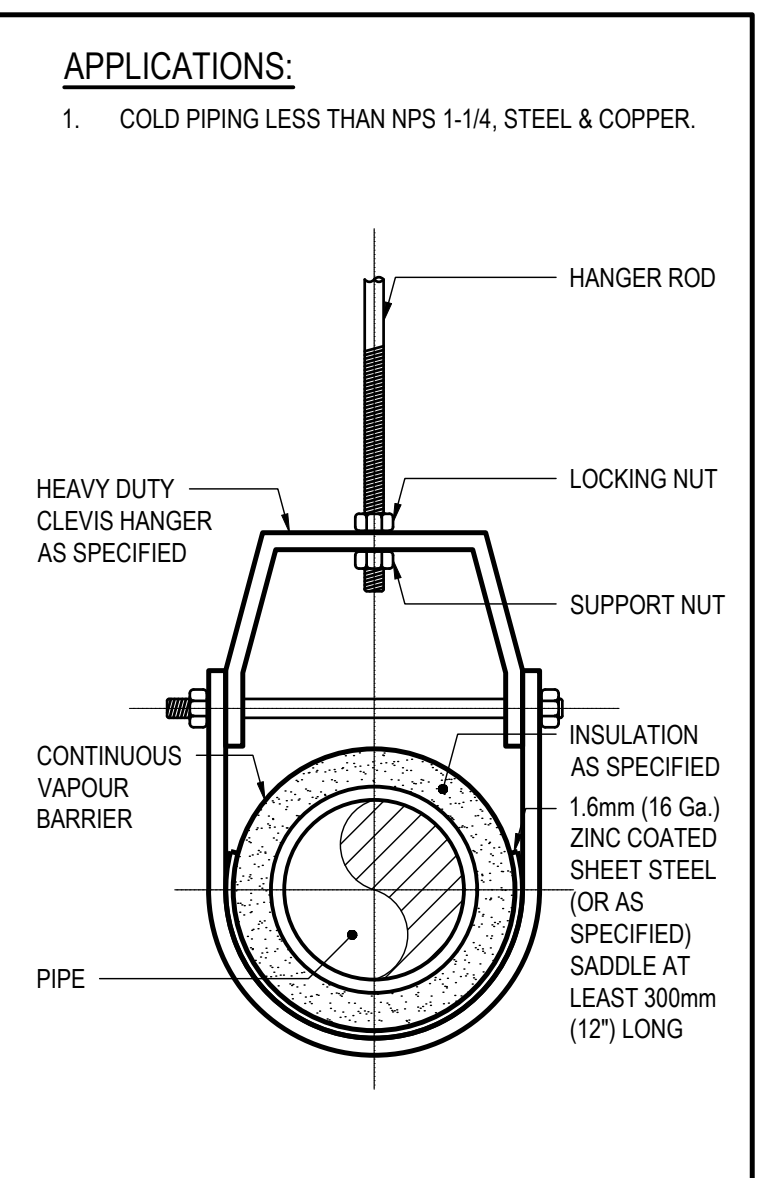
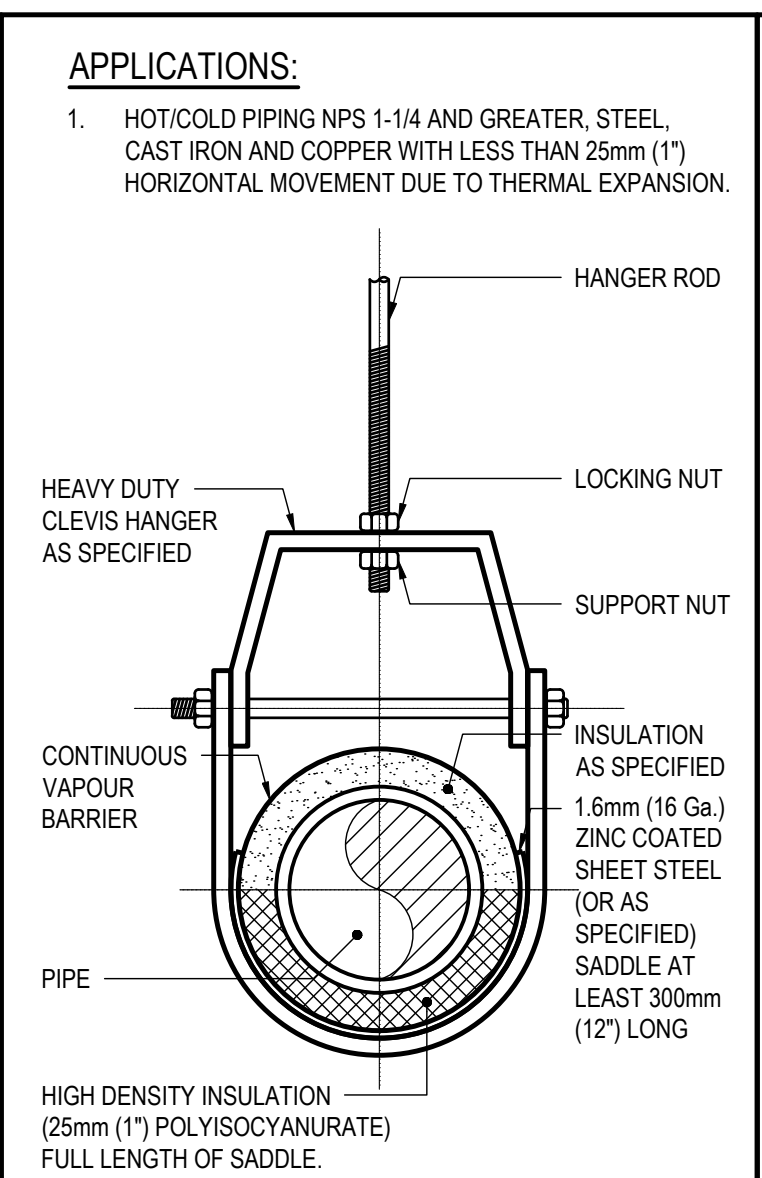
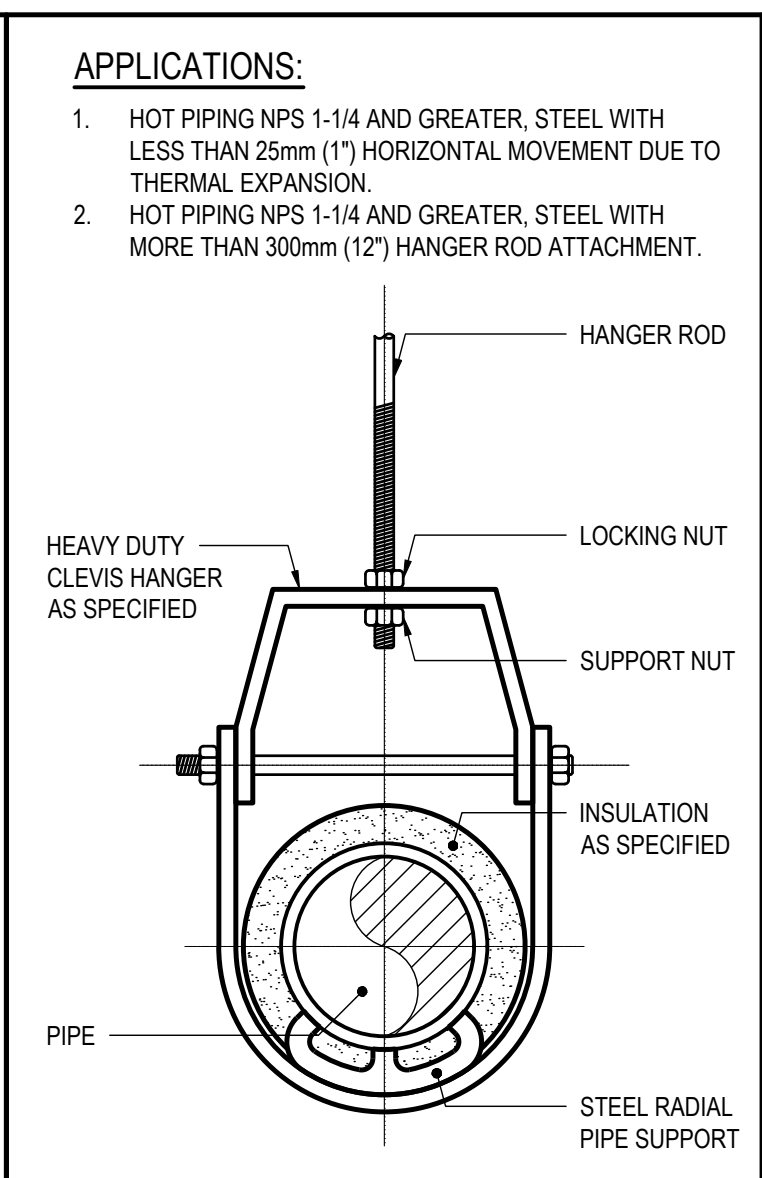
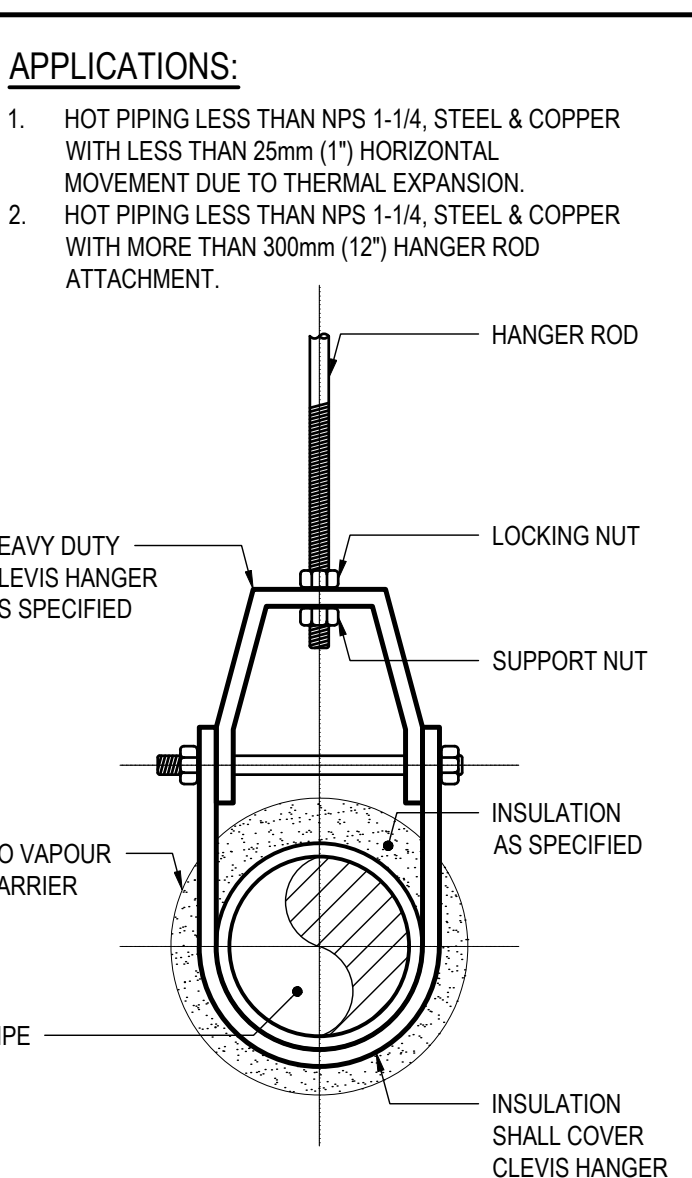
6 TYPICAL PIPING THROUGH ROOF DETAIL
ME-D-506 SCALE: N.T.S.



7 TYPICAL FAN ATTACHMENT TO CURB
ME-D-507 SCALE: N.T.S.



8 TYPICAL PIPE SUPPORT DETAIL
ME-D-508 SCALE: N.T.S.



NOTE:
REFER TO SEISMIC SPECIFICATION FOR ADDITIONAL BRACING REQUIREMENTS NOT SHOWN ON THIS PIPE DETAIL DRAWING.

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N.T.S.	
DESIGNED BY:	
ET, DC	
DRAWN BY:	
ET, DC	
CHECKED BY:	
AS	

DISCIPLINE: MECHANICAL

TITLE:

HVAC SYSTEMS
DETAILS I

SHEET NUMBER:

ME-D-500

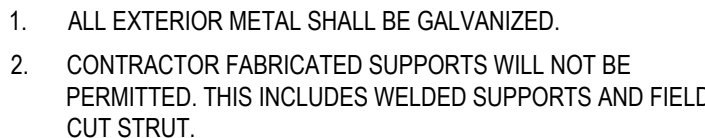
SHEET #: 11 OF 15

ISSUE: REV #

ISSUED TO UCDSB FOR TENDER

DATE OF: 15 APRIL 2026

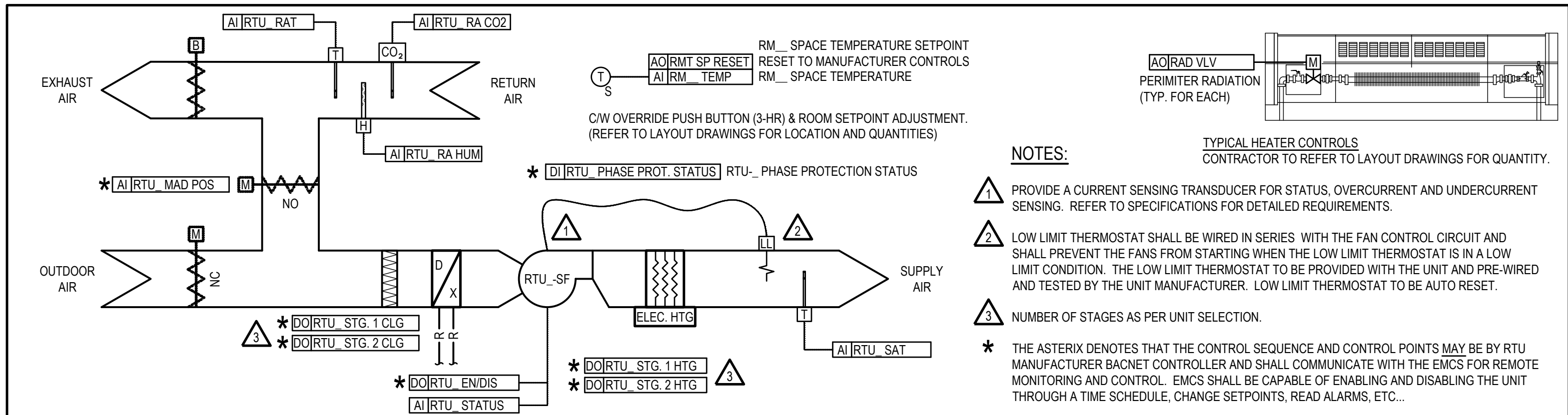
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1
ME-D-50

SCALE: N.T.S

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RTU-1 (ELECTRIC HEAT, DX COOLING) SEQUENCE OF OPERATION

THE EMCS CONTROLS SHALL BE INTEGRATED WITH THE UNIT MANUFACTURER'S CONTROLS USING BACNET COMMUNICATION PROTOCOL TO DELIVER THE FOLLOWING SEQUENCE OF OPERATION. EACH PACKAGED ROOFTOP UNIT CONTROL SEQUENCE SHALL BE STARTED BY A DEDICATED OCCUPANCY TIME SCHEDULE AND OPTIMUM START STOP FUNCTION AT THE EMCS (ADJUSTABLE).

UNOCCUPIED MODE

DURING UNOCCUPIED HOURS THE ROOFTOP UNIT SHALL BE OFF AND THE FRESH AIR DAMPER SHALL BE CLOSED.

WHEN IN THE HEATING MODE, DURING UNOCCUPIED HOURS THE UNIT SHALL BE NIGHT CYCLED WHEN THE SPACE TEMPERATURE FALLS BELOW 15.5°C (60°F) SPACE TEMPERATURE SETPOINT. THE FRESH AIR DAMPER SHALL BE CLOSED AND THE MIXED AIR DAMPER SHALL BE SET TO RETURN 100% OF THE DESIGN FLOW. DURING NIGHT CYCLE THE ECONOMIZER SHALL BE DISABLED BY THE EMCS.

WHEN IN THE COOLING MODE, THE UNOCCUPIED FREE COOLING SEQUENCE SHALL BE ENABLED.

DURING UNOCCUPIED HOURS THE OCCUPANT SHALL BE ABLE TO TEMPORARILY OVERRIDE THE SYSTEM INTO OCCUPANCY FOR 3 HOURS BY PRESSING THE OCCUPANCY OVERRIDE SWITCH LOCATED ON THE SPACE SENSORS.

OCCUPIED MODE

DURING THE OCCUPIED MODE THE ROOFTOP UNIT SHALL BE ENERGIZED INTO A MORNING WARM-UP MODE AND SHALL KEEP THE OUTDOOR DAMPERS CLOSED AND RETURN DAMPERS OPEN UNTIL SPACE TEMPERATURE HAS BEEN REACHED. ONCE REACHED RTU-1 OUTDOOR AIR DAMPER SHALL BE RAMPED OPEN TO MINIMUM POSITION AND SHALL RESUME NORMAL OPERATION.

AN OUTDOOR AIR ENTHALPY ECONOMIZER CONTROL SEQUENCE SHALL BE PROGRAMMED BY THE RTU UNIT MANUFACTURER'S CONTROLS TO ALLOW FREE COOLING THROUGH THE USE OF THE ECONOMIZER WHEN THE SEASONAL CALENDAR IS ACTIVE. WHEN THE FAN IS STARTED, THE OUTDOOR AIR DAMPER WILL BE RAMPED OPEN. THE SLOPE OF THE RAMP WILL BE BASED ON THE OUTDOOR AIR TEMPERATURE. WHEN THE SUPPLY FAN IS RUNNING IN THE HEATING MODE THE MIXED AIR DAMPERS WILL BE CLOSED TO MINIMUM POSITION. IN THE ECONOMIZER MODE THE MIXED AIR DAMPERS WILL BE MODULATED IN SEQUENCE.

BETWEEN MINIMUM POSITION AND FULL OUTDOOR AIR, WITH THE HEATING AND COOLING. IN THE COOLING MODE THE MIXED AIR DAMPERS WILL BE SET TO MINIMUM POSITION.

THE SPACE CO2 SHALL BE CONTROLLED BY MODULATING THE DAMPERS TO CONTROL THE SPACE CO2 SETPOINT. THE CO2 CONTROL SHALL BE BASED ON THE AVERAGE SPACE SENSOR MEASURED CO2 VALUE.

THE AVERAGE SPACE TEMPERATURE SHALL BE CONTROLLED BY STAGING THE ELECTRIC HEATING AND DX COOLING AS REQUIRED AND WITHOUT OVERLAP TO MAINTAIN THE AVERAGE SPACE TEMPERATURE SETPOINT. THE AVERAGE SPACE TEMPERATURE SETPOINT SHALL BE CONTROLLED TO 24°C (75°F) IN THE COOLING MODE AND 22°C (72°F) IN THE HEATING/MID-SEASON AND SHALL BE OPERATOR ADJUSTABLE.

THE HYDRONIC RADIATORS IN THE STORAGE AND STAGE SHALL BE CONTROLLED IN SEQUENCE WITH THE UNIT ELECTRIC HEATING BY THE ROOM TEMPERATURE SENSOR TO MAINTAIN THE ROOM TEMPERATURE SETPOINT AS SET BY THE ROOM TEMPERATURE SETPOINT ADJUSTMENT. (WHERE APPLICABLE).

THE EMCS SHALL SEND THE AVERAGE SPACE RELATIVE HUMIDITY TO THE RTU. THE ON-BOARD RTU CONTROLLER SHALL ENABLE/DISABLE THE OPERATION OF THE DEHUMIDIFICATION FUNCTION WITHIN THE UNIT.

THE DX COOLING SHALL BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE FALLS BELOW 17°C (63°F).

THE ELECTRIC HEATING SHALL BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE 18°C (65°F).

ALARMS:

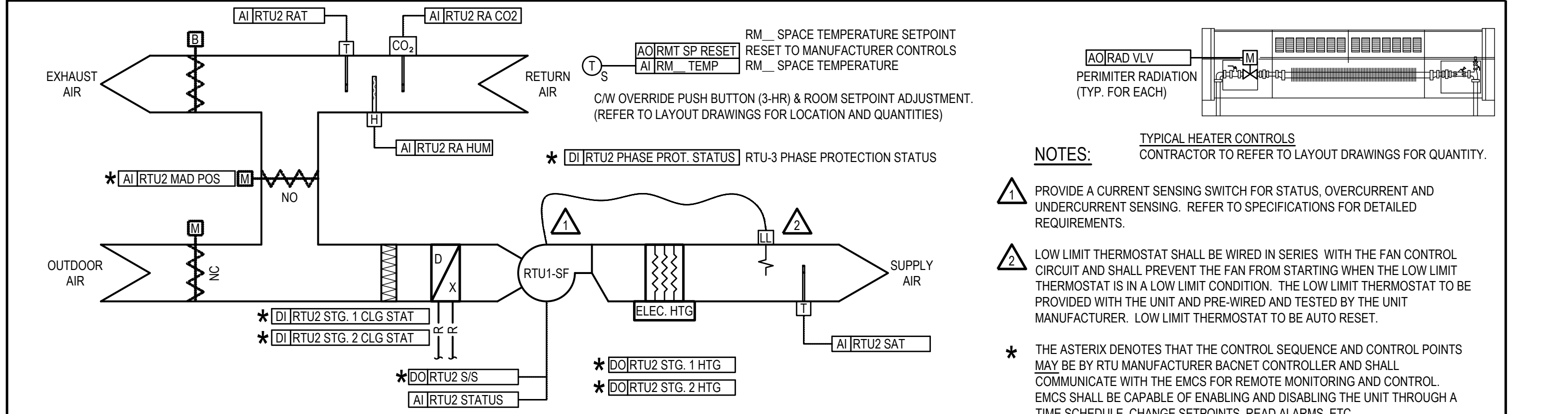
THE FAN SYSTEMS SHALL BE MONITORED AND A CRITICAL ALARM SHALL ANNUNCIATE AT THE EMCS WHEN THE FAN CURRENT IS BELOW THE LOW LEVEL SETPOINT FOR GREATER THAN 1 MINUTE.

HIGH AND LOW TEMPERATURE ALARMS SHALL BE GENERATED WHEN THE DISCHARGE AIR TEMPERATURE IS BEYOND THE LIMITS. LIMITS ARE TO BE COORDINATED WITH THE OWNER AND THE CONSULTANT AND SHALL BE SETUP BY THE CONTROLS CONTRACTOR.

A CO2 ALARM SHALL BE ANNUNCIATED AT THE OWS WHEN THE CO2 LEVEL RISES ABOVE 1500PPM.

RTU-1 CONTROL SCHEMATIC AND SEQUENCE

SCALE: N.T.S.



RTU-3 (ELECTRIC HEAT, DX COOLING) SEQUENCE OF OPERATION

THE EMCS CONTROLS SHALL BE INTEGRATED WITH THE UNIT MANUFACTURER'S CONTROLS USING BACNET COMMUNICATION PROTOCOL TO DELIVER THE FOLLOWING SEQUENCE OF OPERATION. EACH PACKAGED ROOFTOP UNIT CONTROL SEQUENCE SHALL BE STARTED BY A DEDICATED OCCUPANCY TIME SCHEDULE AND OPTIMUM START STOP FUNCTION AT THE EMCS (ADJUSTABLE).

UNOCCUPIED MODE

DURING UNOCCUPIED HOURS THE ROOFTOP UNIT SHALL BE OFF AND THE FRESH AIR DAMPER SHALL BE CLOSED.

WHEN IN THE HEATING MODE, DURING UNOCCUPIED HOURS THE UNIT SHALL BE NIGHT CYCLED WHEN THE SPACE TEMPERATURE FALLS BELOW 15.5°C (60°F) SPACE TEMPERATURE SETPOINT. THE FRESH AIR DAMPER SHALL BE CLOSED AND THE MIXED AIR DAMPER SHALL BE SET TO RETURN 100% OF THE DESIGN FLOW. DURING NIGHT CYCLE THE ECONOMIZER SHALL BE DISABLED BY THE EMCS.

WHEN IN THE COOLING MODE, THE UNOCCUPIED FREE COOLING SEQUENCE SHALL BE ENABLED.

DURING UNOCCUPIED HOURS THE OCCUPANT SHALL BE ABLE TO TEMPORARILY OVERRIDE THE SYSTEM INTO OCCUPANCY FOR 3 HOURS (ADJUSTABLE) BY PRESSING THE OCCUPANCY OVERRIDE SWITCH LOCATED ON THE SPACE SENSOR.

OCCUPIED MODE

DURING THE OCCUPIED MODE THE ROOFTOP UNIT SHALL BE ENERGIZED INTO A MORNING WARM-UP MODE AND SHALL KEEP THE OUTDOOR DAMPERS CLOSED AND RETURN DAMPERS OPEN UNTIL SPACE TEMPERATURE HAS BEEN REACHED. ONCE REACHED, RTU-2 OUTDOOR AIR DAMPERS SHALL OPEN TO MINIMUM POSITION AND SHALL RESUME NORMAL OPERATION.

AN OUTDOOR AIR ENTHALPY ECONOMIZER CONTROL SEQUENCE SHALL BE PROGRAMMED BY THE RTU UNIT MANUFACTURER'S CONTROLS TO ALLOW FREE COOLING THROUGH THE USE OF THE ECONOMIZER WHEN THE SEASONAL CALENDAR IS ACTIVE. WHEN THE FAN IS STARTED, THE OUTDOOR AIR DAMPER WILL BE RAMPED OPEN. WHEN THE SUPPLY FAN IS RUNNING IN THE HEATING MODE THE MIXED AIR DAMPERS WILL BE CLOSED TO MINIMUM POSITION. IN THE ECONOMIZER MODE THE MIXED AIR DAMPERS WILL BE MODULATED. WHEN THE SUPPLY FAN IS RUNNING IN THE COOLING MODE THE MIXED AIR DAMPERS WILL BE CLOSED TO MINIMUM POSITION.

THE RETURN AIR CO2 SHALL BE CONTROLLED BY MODULATING THE FRESH AIR DAMPERS TO CONTROL THE SPACE AIR CO2 SETPOINT. THE CO2 CONTROL SETPOINT SHALL BE SET TO 1000 PPM.

THE SPACE TEMPERATURE SHALL BE CONTROLLED BY STAGING THE ELECTRIC HEATING AND DX COOLING AS REQUIRED, AND WITHOUT OVERLAP, TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE SPACE TEMPERATURE SETPOINT SHALL BE CONTROLLED TO 24°C (75°F) IN THE COOLING MODE AND 21°C (70°F) IN THE HEATING/MID-SEASON AND SHALL BE OPERATOR ADJUSTABLE.

THE HYDRONIC RADIATOR HEATERS SHALL BE CONTROLLED IN SEQUENCE WITH THE UNIT ELECTRIC HEATING BY THE ROOM TEMPERATURE SENSOR TO MAINTAIN THE ROOM TEMPERATURE SETPOINT AS SET BY THE ROOM TEMPERATURE SETPOINT ADJUSTMENT. (WHERE APPLICABLE).

THE DX COOLING SHALL BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE FALLS BELOW 17°C (63°F).

THE ELECTRIC HEATING SHALL BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE 18°C (65°F).

ALARMS:

THE FAN SYSTEMS SHALL BE MONITORED AND A CRITICAL ALARM SHALL ANNUNCIATE AT THE EMCS WHEN THE FAN CURRENT IS BELOW THE LOW LEVEL SETPOINT FOR GREATER THAN 1 MINUTE.

HIGH AND LOW TEMPERATURE ALARMS SHALL BE GENERATED WHEN THE DISCHARGE AIR TEMPERATURE IS BEYOND THE LIMITS. LIMITS ARE TO BE COORDINATED WITH THE OWNER AND THE CONSULTANT AND SHALL BE SETUP BY THE CONTROLS CONTRACTOR.

THE CO2 SHALL BE MONITORED AND AN ALARM SHALL BE GENERATED WHEN THE CO2 LEVEL RISES ABOVE 1200 PPM.

GYMNASIUM PACKAGE RTU-2 W/ STG ELECTRIC HTG & STG DX COOLING - CONTROL SCHEMATIC AND SEQUENCE

SCALE: N.T.S.

DOEXT. LTS. 1 S/S

DOEXT. SIGN LTS. S/S
(POINT FOR FUTURE SIGN)

SEE ELECTRICAL DRAWINGS FOR CONNECTION DETAIL AND LOCATION.

THE EXTERIOR LIGHTS SHALL BE SCHEDULED ON/OFF AS PER OPERATOR SCHEDULE.

EXTERIOR LIGHTS

SOLAR RADIATION SHIELD. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS

DI FIRE ALARM

DI FIRE ALARM TROUBLE

DI PWR PHASE MONITOR

DO TONE GENERATOR

DI TONE OVERRIDE

DI DOM WATER FLOW

DI WELL FLOW METER

DI WELL PUMP STATUS

DO BACKWASH S/S

AI ENERGY METER

DO BAS CRITICAL ALARM

DO DHWR PUMP S/S

AI DHW SUPPLY TEMP

FIRE ALARM STATUS MONITOR

FIRE ALARM TROUBLE STATUS MONITOR

BUILDING MAIN POWER PHASE MONITOR LOCATED IN MAIN ELECTRICAL ROOM

SCHOOL CHIME TONE GENERATOR/BELLS

TONE GENBELL OVERRIDE SWITCH (MAN/ON/OFF/AUTO)

PULSE METER DOMESTIC WATER FLOW. DAILY USAGE AND TOTAL.

WELL PUMP STATUS

BACKWASH START/STOP

BUILDING ENERGY METER IN MAIN ELECTRICAL ROOM (BACnet) PROVIDED BY DIV. 26 CONNECTED TO EMCS BY CONTROLS CONTRACTOR.

MONITOR: BUILDING PHASE POWER, KWH DEMAND, AMPERAGE.

BUILDING AUTOMATION SYSTEM CRITICAL ALARM TO SECURITY SYSTEM.

DOMESTIC HOT WATER RECIRCULATION PUMP START/STOP

DOMESTIC HOT WATER SUPPLY TEMPERATURE

MOUNT TEMPERATURE AND HUMIDITY SENSORS ON NORTH SIDE ONLY

DO JOURNAL FLUSH VLV

PROVIDE FOR EACH FLUSH VALVE. SEE DRAWINGS FOR QUANTITIES AND LOCATIONS.

URINAL FLUSH VALVE SEQUENCE OF OPERATION

THE SOLENOID VALVES FOR THE URINAL FLUSH SHALL OPEN FOR 30 SEC. (USER-ADJUSTABLE) DAILY ACCORDING TO THE USER-ADJUSTABLE URINAL FLUSHING SCHEDULE. EACH SOLENOID SHALL HAVE A SEPARATE SCHEDULE. A MANUAL ELECTRICAL OVERRIDE PUSHBUTTON ACTIVATION SWITCH SHALL BE PROVIDED IN THE ADMIN OFFICE FOR USE IN THE EVENT OF BAS CONTROL FAILURE.

DO EOL FLUSH VLV

PROVIDE FOR EACH END OF LINE FLUSH VALVE LOCATED ON THE ADDITIONAL FAUCET FOR EACH SINK. SEE DRAWINGS FOR QUANTITIES AND LOCATIONS

END OF LINE FLUSH VALVE SEQUENCE OF OPERATION

THE SOLENOID VALVES SHALL OPEN FOR 90 SEC. (USER-ADJUSTABLE) DAILY ACCORDING TO THE USER-ADJUSTABLE END OF LINE FLUSHING SCHEDULE. A SEPARATE SCHEDULE SHALL BE SET FOR EACH END OF LINE FLUSHING VALVE USED FOR FLUSHING DOMESTIC WATER SYSTEM. DURING EACH END OF LINE FLUSHING PERIOD THE VALVE SHALL REMAIN OPEN UNTIL THE USER SPECIFIED VOLUME HAS BEEN FLUSHED THROUGH THE SYSTEM. IF AFTER A USER SPECIFIED DURATION THE VOLUME HAS NOT BEEN MET, THE EMCS SHALL GENERATE AN ALARM AND PROCEED TO THE NEXT SCHEDULED FLUSHING. WATER FLOW SHALL BE MONITORED AND THE EMCS SHALL LOG THE VOLUME ASSOCIATED WITH EACH END OF LINE FLUSH.

PROVISIONS SHALL BE MADE TO FLAG ANY EQUIPMENT UNDERGOING MAINTENANCE AND IDENTIFY AT THE OPERATOR WORKSTATION EQUIPMENT UNDERGOING MAINTENANCE. DURING FLAGGED EQUIPMENT MAINTENANCE, EMCS SHALL DISABLE FOR A USER ADJUSTABLE TIME PERIOD ALL ALARMS ASSOCIATED WITH THE FLAGGED PIECE OF EQUIPMENT. IF AFTER USER ADJUSTABLE TIME PERIOD A FLAGGED MAINTENANCE HAS NOT BEEN REMOVED BY THE OPERATOR, AN ALARM SHALL BE GENERATED IDENTIFYING MAINTENANCE OVERDUE.

GENERAL NOTE:

1. COORDINATE ALL INITIAL SCHEDULE SETUPS WITH OWNER. SOME EQUIPMENT MAY REQUIRE GROUP SCHEDULING BY SECTION OR AREA OF SCHOOL. ADDITIONALLY SPECIAL AND/OR HOLIDAY SCHEDULES MAY BE REQUIRED TO BE PROGRAMMED.

MISCELLANEOUS POINTS CONTROL SCHEMATICS AND SEQUENCES

SCALE: N.T.S.

CONTRACT DRAWINGS
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SEAL

CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. # -

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN

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4		2026/04/15	ISSUED TO UCDSB FOR TENDER
3		2026/02/27	ISSUED TO UCDSB FOR 90% REVIEW
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1		2025/11/14	ISSUED TO UCDSB FOR 30% REVIEW

PROJECT NO: CA0060380 9055	DATE: APRIL 2026
ORIGINAL SCALE: N.T.S.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: ET, DC	
DRAWN BY: ET, DC	
CHECKED BY: AS	

DISCIPLINE: MECHANICAL

TITLE:

HVAC SYSTEMS
CONTROLS I

SHEET NUMBER:

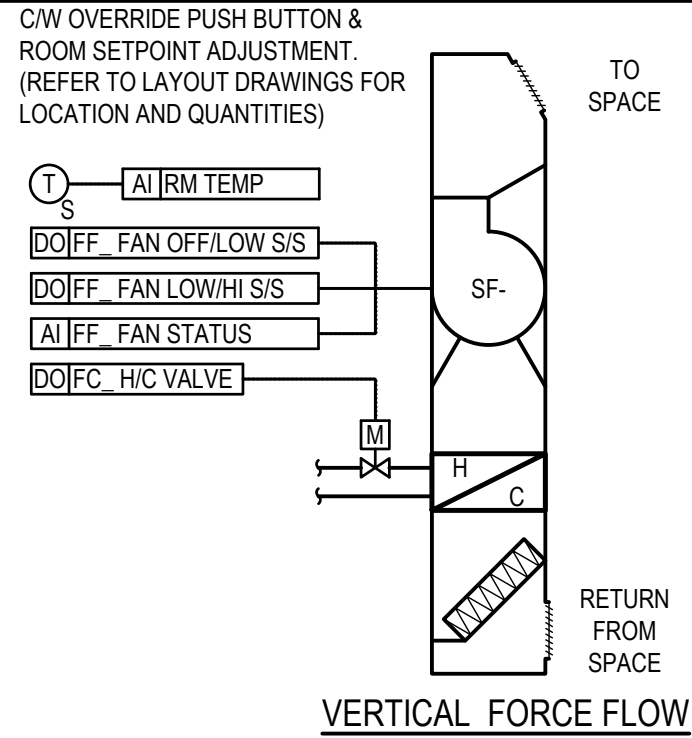
ME-SCH-610

SHEET # 13 OF 15

ISSUE: ISSUED TO UCDSB FOR TENDER

DATE OF: 15 APRIL 2026

REV # 0



NOTES:

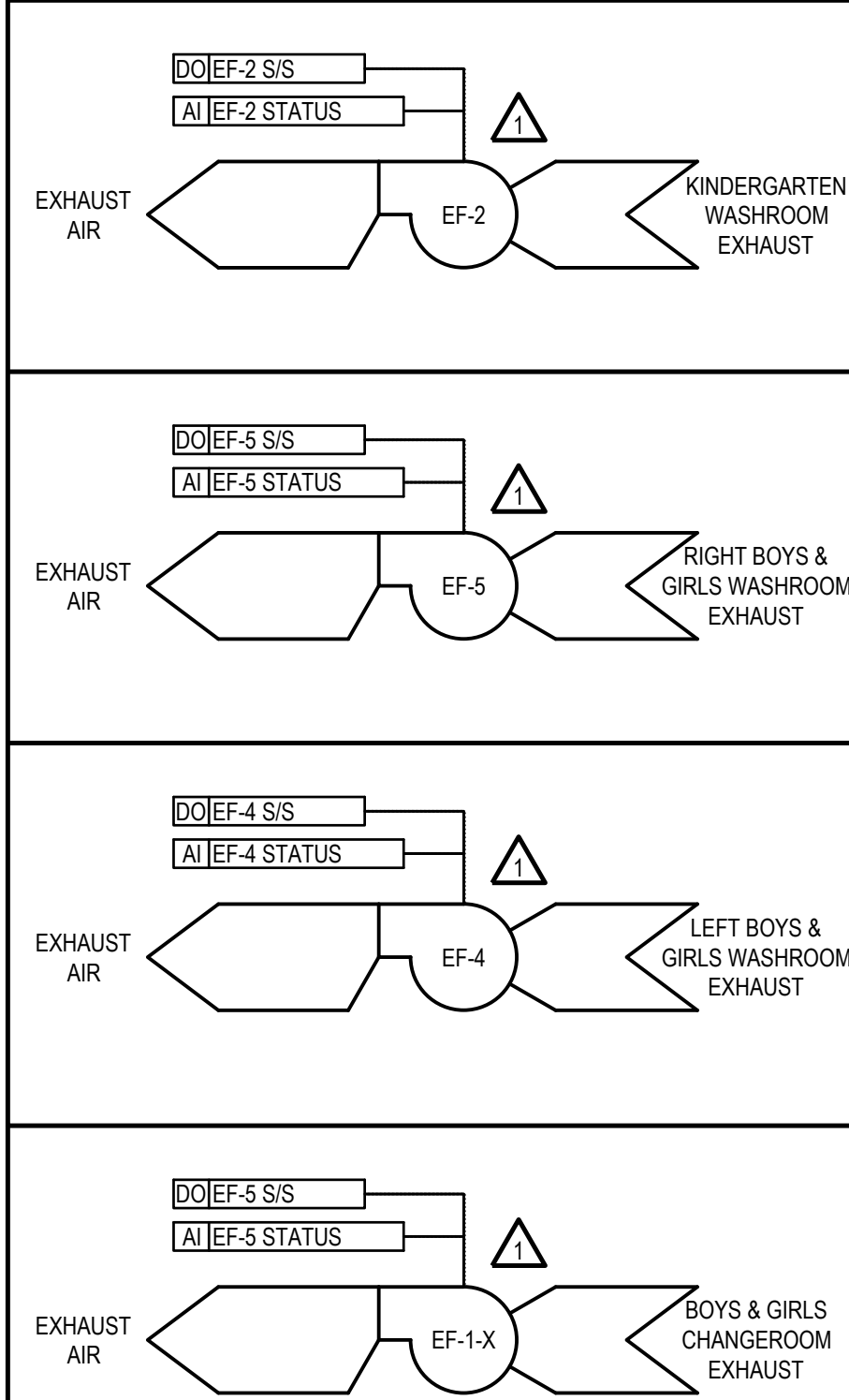
- ALL CONTROLLERS FOR CABINET FAN COILS ARE TO BE INSTALLED IN THE CORRIDOR CEILING SPACE UNLESS APPROVED OTHERWISE.
- RUN CONTROL WIRING FROM CEILING SPACE DOWN TO THE CABINET FAN COILS WITHIN THE STAINLESS STEEL PIPING ENCLOSURE.
- SPEED CONTROL COMBINATIONS SHALL BE LOW/HIGH
- WHERE THERE ARE TWO CABINET FAN COILS SERVING ONE SPACE, THEY ARE REQUIRED TO BE CONTROLLED IN UNISON BY THE SAME CONTROLLER AND OUTPUTS. INPUT SIGNALS SHALL BE INDEPENDENT EXCEPT THAT ONLY ONE ROOM TEMPERATURE SENSOR SHALL BE REQUIRED.

2 PIPE CABINET FAN COILS/FORCE FLOW HEATERS:

- THE FAN COIL/FORCE FLOW WILL BE PROGRAMMED TO START BASED ON A COMMON TIME OF DAY SCHEDULE OPTIMUM START SEQUENCE. OR NIGHT CYCLE.
- DURING UNOCCUPIED HOURS, THE FAN COIL/FORCE FLOWS SHALL BE NIGHT CYCLED TO HIGH SPEED AND SHALL MAINTAIN AN UNOCCUPIED SPACE TEMPERATURE SETPOINT OF 18°C (65°F) IN THE HEATING MODE/MID-SEASON.
- DURING THE OCCUPIED PERIOD, A GROUPING OF FAN COIL/FORCE FLOW FANS SHALL BE STARTED ON HIGH SPEED BASED ON THE OPTIMUM START TIME. THE SPACE TEMPERATURE SETPOINT SHALL BE SET TO 22°C (72°F) AND SHALL BE MAINTAINED BY ON/OFF CONTROL OF COIL VALVE. UPON REACHING SETPOINT, THE GROUPING OF FAN COIL/FORCE FLOW FANS SHALL BE PLACED INTO LOW SPEED.
- WHEN THE SPACE TEMPERATURE DROPS 1.5°C (3°F) BELOW SETPOINT (EMCS USER-ADJUSTABLE) THEN THE CABINET FAN COIL/FORCE FLOW SHALL BE PLACED INTO HIGH SPEED.
- A LOW SPACE TEMPERATURE ALARM SHALL BE ANNUNCIATED AT THE EMCS WHEN THE SPACE TEMPERATURE FALLS BELOW 7°C (45°F) (USER-ADJUSTABLE).
- IN THE COOLING MODE, THE FAN COILS/FORCE FLOWS SHALL BE DISABLED BY THE EMCS.

TYPICAL FORCE FLOW (FF) HEATER CONTROL SCHEMATIC AND SEQUENCE

SCALE: N.T.S.

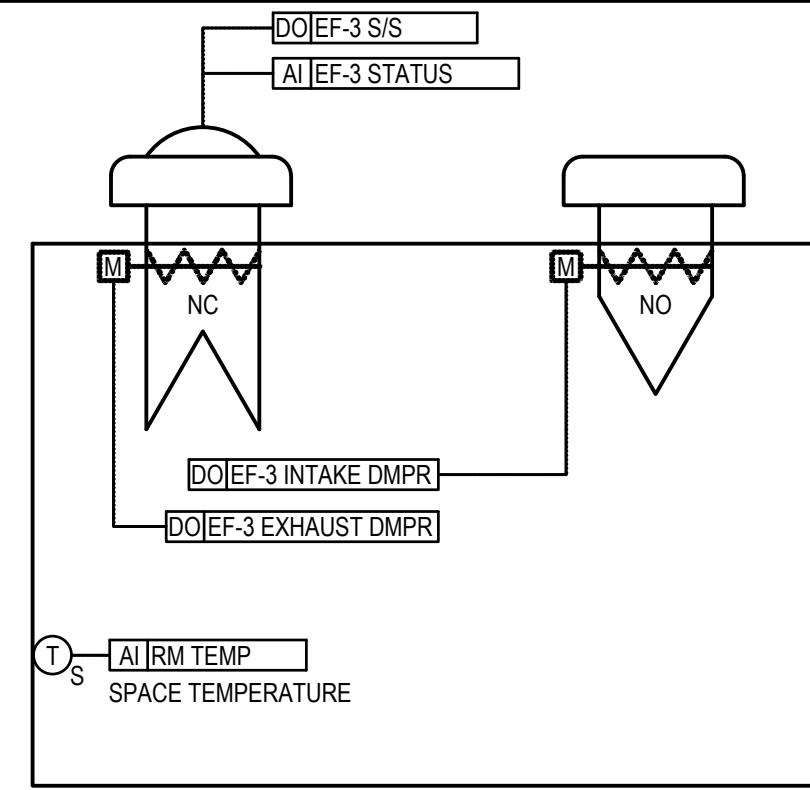


NOTES:

- △ PROVIDE A CURRENT SENSING TRANSDUCER FOR STATUS, OVERCURRENT AND UNDERCURRENT SENSING. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.

MISCELLANEOUS EXHAUST FAN CONTROL SCHEMATICS AND SEQUENCES

SCALE: N.T.S.

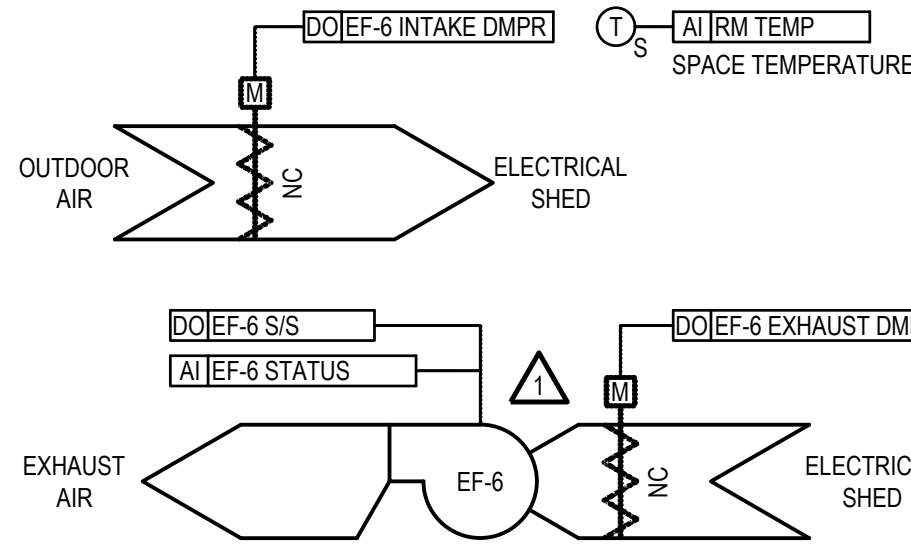


EF-3 SEQUENCE OF OPERATION
FAN EF-3 CONTROL SEQUENCE SHALL BE STARTED BY A DEDICATED SPACE TEMPERATURE SENSOR (FLAT PLATE TYPE). UPON SENSING THE SPACE TEMPERATURE ABOVE THE SETPOINT, THE INTAKE AND EXHAUST DAMPERS SHALL BE COMMANDED 'OPEN' AND THE FAN SHALL START.

UPON SENSING A TEMPERATURE BELOW THE SETPOINT, THE INTAKE AND EXHAUST DAMPERS SHALL BE COMMANDED 'CLOSED' AND THE FAN SHALL STOP.

THE INITIAL SPACE TEMPERATURE SETPOINT SHALL BE 35°C (95°F) (ADJUSTABLE).

ALARMS:
THE FAN AND MOTOR SYSTEMS SHALL BE MONITORED AND A CRITICAL ALARM SHALL ANNUNCIATE AT THE EMCS WHEN THE FAN OR MOTOR COMMAND AND STATUS ARE IN OPPOSITE STATES FOR GREATER THAN 5 MINUTES.

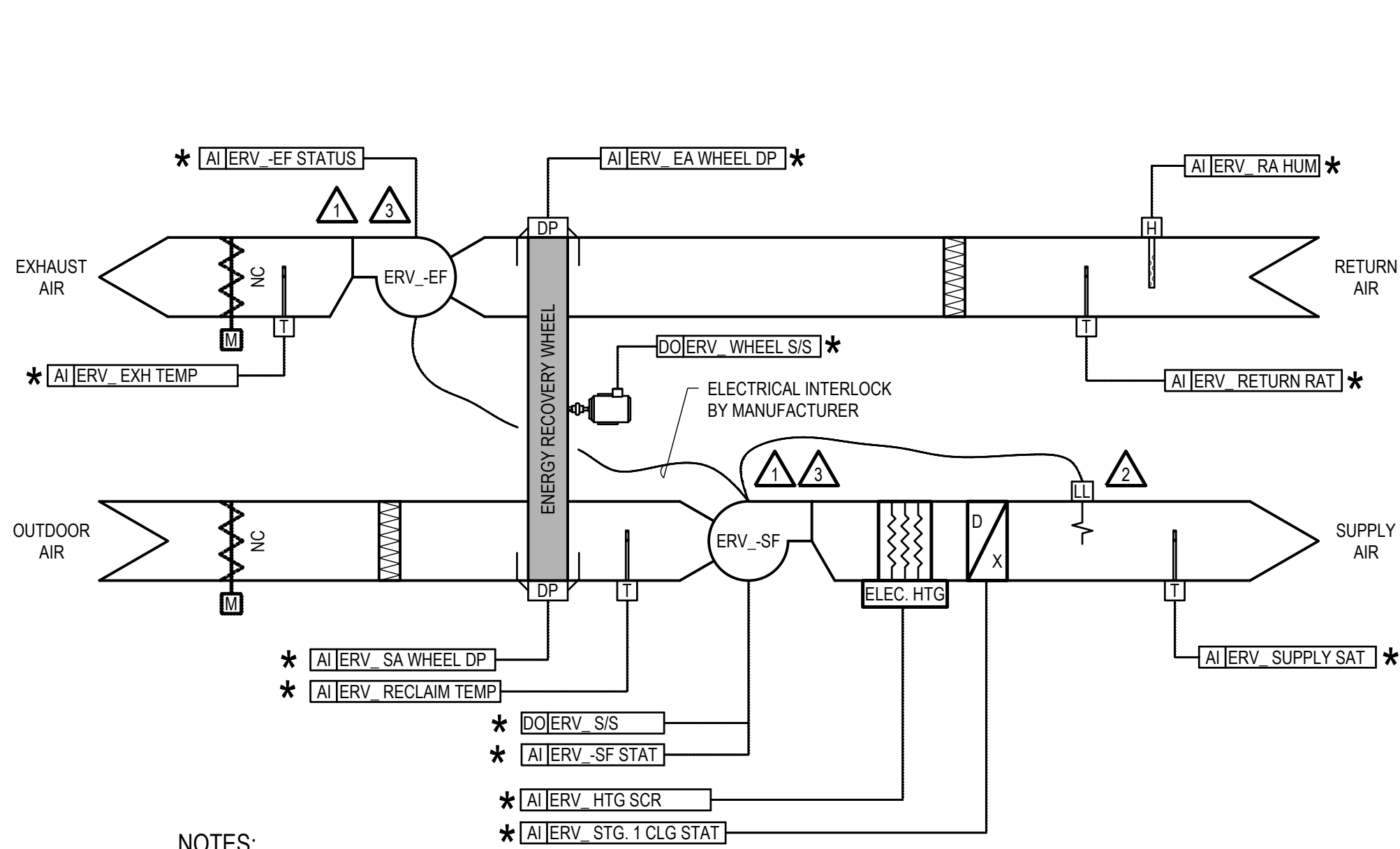


EF-6 SEQUENCE OF OPERATION
FAN EF-6 CONTROL SEQUENCE SHALL BE STARTED BY A DEDICATED SPACE TEMPERATURE SENSOR (FLAT PLATE TYPE). UPON SENSING THE SPACE TEMPERATURE ABOVE THE SETPOINT, THE INTAKE AND EXHAUST DAMPERS SHALL BE COMMANDED 'OPEN' AND THE FAN SHALL START.

UPON SENSING A TEMPERATURE BELOW THE SETPOINT, THE INTAKE AND EXHAUST DAMPERS SHALL BE COMMANDED 'CLOSED' AND THE FAN SHALL STOP.

THE INITIAL SPACE TEMPERATURE SETPOINT SHALL BE 35°C (95°F) (ADJUSTABLE).

ALARMS:
THE FAN AND MOTOR SYSTEMS SHALL BE MONITORED AND A CRITICAL ALARM SHALL ANNUNCIATE AT THE EMCS WHEN THE FAN OR MOTOR COMMAND AND STATUS ARE IN OPPOSITE STATES FOR GREATER THAN 5 MINUTES.



NOTES:

- △ PROVIDE A CURRENT SENSING TRANSDUCER FOR STATUS, OVERCURRENT AND UNDERCURRENT SENSING. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- △ LOW LIMIT THERMOSTAT SHALL BE WIRED IN SERIES WITH THE FAN CONTROL CIRCUIT BY THE ERV MANUFACTURER AND SHALL PREVENT THE FANS FROM STARTING WHEN THE LOW LIMIT THERMOSTAT IS IN A LOW LIMIT CONDITION. THE LOW LIMIT THERMOSTAT TO BE PROVIDED WITH THE UNIT AND PRE-WIRED AND TESTED BY THE UNIT MANUFACTURER. LOW LIMIT THERMOSTAT TO BE AUTO RESET.
- △ EXHAUST FAN ERV_EF SHALL BE ELECTRICALLY INTERLOCKED BY THE ERV MANUFACTURER TO START WITH THE SUPPLY FAN ERV_SF.

* THE ASTERISK DENOTES THAT THE CONTROL SEQUENCE AND CONTROL POINTS MAY BE BY RTU MANUFACTURER BACKUP CONTROLLER AND SHALL COMMUNICATE WITH THE EMCS FOR REMOTE MONITORING AND CONTROL. EMCS SHALL BE CAPABLE OF ENABLING AND DISABLING THE UNIT THROUGH A TIME SCHEDULE, CHANGE SETPOINTS, READ ALARMS, ETC...

TYPICAL ERV CONTROL SCHEMATIC AND SEQUENCE

SCALE: N.T.S.

ERV MANUFACTURER TO PROVIDE ON BOARD DEFROST CONTROLS. DEFROST CONTROL BY MANUFACTURER SHALL ALLOW DEFROST IF OUTSIDE AIR TEMPERATURE IS BELOW -15°C (5°F) (ADJUSTABLE) AND WHEEL DIFFERENTIAL PRESSURE DROP IS ABOVE SETPOINT. DEFROST CONTROL TO SHUT OFF SUPPLY FAN FOR A 5 MINUTE (ADJUSTABLE) TIME PERIOD. WHILE IN DEFROST MODE, SUPPLY FAN SHALL RUN FOR 20 MINUTE PERIOD IN BETWEEN EACH CYCLE OF WHEEL SHUT DOWN. ERV MANUFACTURER TO PROVIDE CONTROL OF OUTSIDE AND EXHAUST AIR DAMPERS TO OPEN/CLOSE WITH START/STOP OF UNIT.

ERV-1, 2 SEQUENCE OF OPERATION

EACH ERV CONTROL SEQUENCE SHALL BE STARTED BY A DEDICATED OCCUPANCY TIME SCHEDULE AT THE EMCS.

BUILDING HEATING, COOLING AND MID-SEASON MODE IS TURNED ON AND OFF BASED ON CALENDAR DAYS.

UNOCCUPIED MODE

THE ERV SHALL BE OFF. THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL BE CLOSED BY THE ERV MANUFACTURER.

IF NOT IN HEATING MODE AT 4:00AM, AND THE ROOM TEMPERATURE AVERAGE IS GREATER THAN 23°C (73°F) AND OUTDOOR AIR IS LESS THAN 17°C (62°F) AND GREATER THAN 3°C (38°F) AND OUTDOOR HUMIDITY IS LESS THAN 80%, THEN START MORNING COOL DOWN BY ENABLING ERV AND STOPPING WHEEL. ONCE AVERAGE ROOM TEMPERATURE IS LESS THAN 20°C (68°F) THEN STOP COOL DOWN MODE.

OCCUPIED MODE
DURING THE OCCUPIED MODE THE ERV SHALL BE ENABLED BY THE EMCS AND THE ERV CONTROLS SHALL OPEN OUTSIDE AND EXHAUST DAMPERS THROUGH THE ERV UNIT CONTROLS AND ENERGIZE FANS ERV_SF AND ERV_EF.

DURING THE HEATING MODE WHEN THE OUTDOOR AIR TEMPERATURE IS LESS THAN 4°C (40°F), THE EMCS SHALL ENABLE THE ERV ELECTRIC HEATING. WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 4°C (40°F), THE EMCS SHALL DISABLE THE ERV ELECTRIC HEATING.

DURING THE HEATING MODE, ONCE THE STATUS OF THE FANS HAS BEEN PROVEN BY THE CURRENT SENSORS, THE EMCS SYSTEM CONTROL LOOPS SHALL BE ENABLED AND THE ELECTRIC HEATING SHALL BE MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT TO 18°C (65°F) (ADJUSTABLE). THE ELECTRIC HEATING SHALL BE TURNED OFF WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE 16°C (60°F).

DURING THE MID-SEASON WHEN THE SYSTEM IS NOT IN HEATING MODE OR COOLING MODE, IF THE AVERAGE TEMPERATURE OF THE ROOMS SERVED BY THE ERV CLIMBS ABOVE AVERAGE ROOM TEMPERATURE SETPOINT AND THE OUTDOOR AIR TEMPERATURE IS BELOW 23°C (73°F) AND DIFFERENTIAL ENTHALPY CONTROL ALLOWS, THE ERV WHEEL SHALL STOP. WITH AN OUTDOOR AIR TEMPERATURE ABOVE 23°C (73°F), THE WHEEL TURNS.

THE ERV ELECTRIC HEAT SHALL BE OFF DURING THE COOLING SEASON AND THE MID-SEASON.

DURING THE COOLING MODE, THE DX COOLING SYSTEM SHALL MODULATE TO MAINTAIN THE REQUIRED DISCHARGE AIR SETPOINT OF 13°C (55°F). DURING THE COOLING MODE, THE DX COOLING SYSTEM SHALL BE TURNED OFF WHEN THE OUTSIDE AIR TEMPERATURE FALLS BELOW 10°C (50°F).

ALARMS:

THE FAN AND MOTOR SYSTEMS SHALL BE MONITORED AND A CRITICAL ALARM SHALL ANNUNCIATE AT THE EMCS WHEN THE FAN OR MOTOR COMMAND AND STATUS ARE IN OPPOSITE STATES FOR GREATER THAN 5 MINUTES.

THE ERV HEATING COIL CURRENT SHALL BE MONITORED BY THE EMCS AND SHALL SEND A CRITICAL ALARM IF THE CURRENT IS BELOW SETPOINT FOR GREATER THAN 5 SECONDS AND SHALL SIMULTANEOUSLY DISABLE THE ERV. (THE ERV UPON SHUT DOWN SHALL CLOSE FRESH AIR AND EXHAUST DAMPERS VIA ERV MANUFACTURER'S CONTROLS.)

HIGH AND LOW TEMPERATURE ALARMS SHALL BE GENERATED WHEN THE DISCHARGE AIR TEMPERATURE IS BEYOND THE LIMITS. LIMITS ARE TO BE COORDINATED WITH THE OWNER AND THE CONSULTANT AND SHALL BE SETUP BY THE CONTROLS CONTRACTOR.

THE LOW LIMIT THERMOSTAT SHALL BE MONITORED BY THE EMCS AND SHALL ANNUNCIATE A CRITICAL ALARM WHEN THE LOW LIMIT CONDITION EXISTS AND SHUT DOWN THE ERV.

THE WHEEL PRESSURE SENSOR SWITCH SHALL BE MONITORED BY THE EMCS AND SHALL ANNUNCIATE A HIGH ALARM WHEN THE DIFFERENTIAL PRESSURE IS GREATER THAN 0.00062" W.C. (FROST OR PLUGGED WHEEL) AND A LOW ALARM WHEN THE DIFFERENTIAL PRESSURE IS LESS THAN 0.0016" W.C. (DIRTY FILTER OR LOOSE BELT).

A STATIC PRESSURE ALARM SHALL BE ANNUNCIATED AT THE OWS WHEN THE SUPPLY OR RETURN STATIC PRESSURE RISES/DROPS 1" W.C. ABOVE/BELOW SETPOINT.

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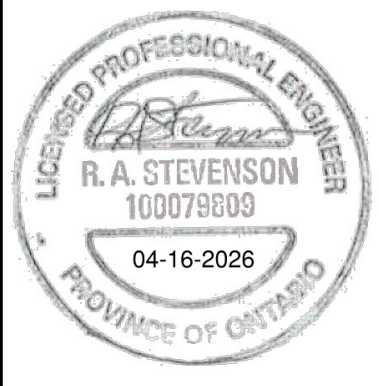
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SCHOOL BOARD

CLIENT REF. # -

PROJECT:

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PARKING AND SITE WORKS.
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IS	RE	DATE	DESCRIPTION
CA0060380.9055		APRIL 2026	
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AS			

DISCIPLINE: MECHANICAL

TITLE:

HVAC SYSTEMS
CONTROLS II

SHEET NUMBER:

ME-SCH-611

SHEET # 14 OF 15









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





DATE OF: 15 APRIL 2026

REV #

0


SWITCHING	
SYMBOL	DESCRIPTION
OS	CEILING MOUNTED OCCUPANCY SENSOR
\$	SINGLE POLE TOGGLE SWITCH

FIRE ALARM	
SYMBOL	DESCRIPTION
	FIRE ALARM HORN
	FIRE ALARM HORN STROBE
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM "FIRE" LIGHT
	FIRE ALARM PULL STATION
	FIRE ALARM PULL STATION
	FIRE ALARM DUCT TYPE SMOKE DETECTOR

LIGHTING	
SYMBOL	DESCRIPTION
	ROUND DOWNLIGHT
	610MM X 1220MM LIGHT FIXTURE
	305MM X 1220MM LIGHT FIXTURE
	STRIP OR WALL CUBE FIXTURE
	EXIT SIGN - ARROWS AND MOUNTING AS INDICATED
	EMERGENCY BATTERY UNIT C/W REMOTE HEADS
	CEILING MOUNTED REMOTE HEADS DUAL OR SINGLE HEAD AS SHOWN
	WALL MOUNTED REMOTE HEADS DUAL OR SINGLE HEAD AS SHOWN
	POLE MOUNTED REMOTE HEADS DUAL OR SINGLE HEAD AS SHOWN
	POLE MOUNTED LIGHT FIXTURE WITH SINGLE HEAD
	POLE MOUNTED LIGHT FIXTURE WITH DUAL HEAD





NOTES:





1. SHADED FIXTURES ARE CONNECTED TO UNSWITCHED NORMAL POWER
2. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE & SPECIFICATIONS

























SECURITY	
SYMBOL	DESCRIPTION
	SECURITY MOTION SENSOR

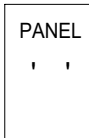






LINE TYPE LEGEND	
SYMBOL	DESCRIPTION
---	DEMOLITION
—	EXISTING
—	NEW
— · —	NEW BELOW GRADE CONDUITS OR DUCT BANKS AS SHOWN

ABBREVIATIONS	
SYMBOL	DESCRIPTION
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AT	AMP TRIP
B	BLANK COVER PLATE
BKR	BREAKER
C	CEILING MOUNTED
CCT	CIRCUIT
DH	DUCT HEATER
EF	EXHAUST FAN
EMCS	ELECTRONIC CIRCUIT MONITORING SYSTEM & BAS
ERV	ENERGY RECOVERY VENTILATOR UNIT
FSD	FIRE SMOKE DAMPER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HEAT PUMP
MH	MOUNTING HEIGHT
OC	OVER COUNTER/NON-STANDARD MOUNTING HEIGHT
PV	PHOTOVOLTAIC
RTU	ROOF TOP UNIT
S	SURFACE MOUNTED
WP	WEATHER PROOF

CONDUIT & FEEDER	
SYMBOL	DESCRIPTION
	CONDUIT CAPPED OFF
	CONDUIT RUN TO PANEL
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN

COMMUNICATIONS	
SYMBOL	DESCRIPTION
	VOICE/DATA OUTLET ROUGH-IN CW CONDUIT, BUSHINGS AND WIRING BACK TO ELEC/IT ROOM
	WIFI ACCESS POINT
	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
	WALL MOUNTED PUBLIC ADDRESS SPEAKER

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 120V, 15A
	DUPLEX RECEPTACLE, GFI, 120V, 15A
	DUPLEX RECEPTACLE, 120V, 20A 5-20R
	DUPLEX RECEPTACLE, GFI, 120V, 20A, CSA 5-20R
	QUADPLEX RECEPTACLE, 120V, 15A
	RECESSED PANEL
	SURFACE PANEL
	STANDARD JUNCTION BOX (100 x 100mm UNLESS NOTED OTHERWISE)
	PULL BOX
	SINGLE PHASE MOTOR CONNECTION. WIRED BY THIS TRADE.
	THREE PHASE MOTOR CONNECTION. WIRED BY THIS TRADE.
	DISCONNECT SWITCH
	ELECTRIC DUCT HEATER
	TIME CLOCK
	MAGNETIC MOTOR STARTER
	DISCONNECT SWITCH
	LINE VOLTAGE THERMOSTAT. SUPPLIED BY MECHANICAL CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR.
	MOTOR RATED SWITCH C/W LOCKABLE TABS AND PILOT LIGHT
	HAND HOLE
	GROUND BAR
	BARRIER FREE OPERATOR. SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. WIRED BY ELECTRICAL.
	TRANSFORMER - PLAN DRAWINGS
	PV INVERTER
	PV PANEL

SINGLE LINE DRAWING	
SYMBOL	DESCRIPTION
	PANEL
	METER
	BREAKER
	TRANSFORMER
	GROUND
	CURRENT TRANSFORMER
	SURGE PROTECTIVE DEVICE (SPD)

DRAWING LIST	
EL-O-000	LEGEND & DRAWING LIST
EL-L-100	SITE PLAN DEMOLITION WORK
EL-L-101	SITE PLAN NEW WORK
EL-L-102	GROUND FLOOR WEST POWER & SYSTEMS DEMOLITION WORK
EL-L-103	GROUND FLOOR EAST POWER & SYSTEMS DEMOLITION WORK
EL-L-104	GROUND FLOOR WEST POWER & SYSTEMS NEW WORK
EL-L-105	GROUND FLOOR EAST POWER & SYSTEMS NEW WORK
EL-L-106	ROOF POWER & SYSTEMS DEMOLITION WORK
EL-L-107	ROOF POWER & SYSTEMS NEW WORK
EL-L-108	GROUND FLOOR WEST LIGHTING & FIRE ALARM DEMOLITION WORK
EL-L-109	GROUND FLOOR EAST LIGHTING & FIRE ALARM DEMOLITION WORK
EL-L-110	GROUND FLOOR WEST LIGHTING & FIRE ALARM NEW WORK
EL-L-111	GROUND FLOOR EAST LIGHTING & FIRE ALARM NEW WORK
EL-D-500	DETAILS 1 OF 3
EL-D-501	DETAILS 2 OF 3
EL-D-502	DETAILS 3 OF 3
EL-D-503	ELECTRICAL SINGLE LINE DRAWING DEMOLITION WORK
EL-D-504	ELECTRICAL SINGLE LINE DRAWING NEW WORK
EL-D-505	ELECTRICAL PV SINGLE LINE DRAWING NEW WORK
EL-SCH-600	PANEL SCHEDULES 1 OF 2
EL-SCH-601	PANEL SCHEDULES 2 OF 2

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CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR ELECTRICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF ELECTRICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS, OTHER ELECTRICAL SYSTEMS. PROVIDE ADDITIONAL CONDUIT, WIRING, JUNCTION BOXES, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

PROJECT PHASING

CONTRACTOR IS TO ALLOW FOR PHASED CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES TO ENSURE EXISTING BUILDING SERVICES REMAIN OPERATIONAL. INCLUDING BUT NOT LIMITED TO ELECTRICAL, FIRE ALARM, VENTILATION, HEATING, ETC. SUBMIT PHASING PLAN WITH SCHEDULE, INCLUDING EQUIPMENT DELIVERY DATES FOR REVIEW AND ACCEPTANCE.

SERVICE SIZE CALCULATION

FROM HISTORICAL DATA PROVIDED BY CLIENT. HYDRO ONE PEAK LOAD FOR THE EXISTING BUILDING =		54KW
EXISTING LOADS BEING REMOVED: (DIVERSITY)/USAGE NOT APPLIED TO REMOVALS)		
RTUMAU =		-11 KW
ELECTRIC DUCT HEATER =		-18 KW
EXHAUST FANS =		-1 KW
NEW LOADS TO BE ADDED: (HEATING + FAN LOADS) (COOLING LOAD LESS THEN HEATING LOAD)		
RTU-1 =		68 KW
RTU-2 =		68 KW
FC FOR CLASSROOMS: 14 TO 29 @ 0.9KW EACH (TOTAL 17) =		15.3 KW
DH FOR CLASSROOMS: 15A & 15B 14, 22 & 23 17, 18 & 19 24, 25 & 27 & 28 101A & 101b 16 26 & 29		6KW 7KW 10KW 13KW 14KW 15KW 16KW
ERV-1 =		41.5 KW
ERV-2 =		20.0 KW
HP-1A/B =		47.5 KW
HP-2A/B =		22.9 KW
HP-3A/B =		47.5 KW
MISC. LOADS =		4.8KW
SIX (6) FUTURE PORTABLES @ 15 KW EACH =		90KW
FUTURE ELECTRIC HEATING IN WASHROOMS, VESTIBULES, JANITORS ROOMS, GYMNASIUM ESTIMATE =		23 KW
BUILDING LOAD TOTAL =		663 KW
REQUESTED SERVICE VOLTAGE =		347/600V-3PH, 4W
THEORETICAL MINIMUM SERVICE SIZE = (663 KW X 1000) / (ROOT3)600V) =		638A @ 80% MAX LOADING = 638A X 1.25 = 797.5A
NEXT STANDARD SERVICE SIZE =		1200A - 347/600V-3Ø.

ELECTRICAL SYMBOL LEGEND

NOTE:

THIS IS A COMPREHENSIVE LEGEND AND NOT ALL ITEMS APPEAR ON ELECTRICAL DRAWINGS

SHORT CIRCUIT CALCULATION

GIVEN UTILITY OWNED TRANSFORMER IS 750KVA 4 8KV-347/600-30 WITH %Z ASSUMED AT 5%Z DISTANCE FROM TRANSFORMER TO 'SWGR' = 8.5M WITH THREE PARALLEL RUNS OF #400MCM SHORT CIRCUIT AVAILABLE IS CALCULATED AT 14,600 SCA.

TAKING LARGEST, CLOSEST TRANSFORMER OF 225KVA 80-120/288V-30 WITH %Z = 3.00, DISTANCE FROM 'SWGR' TO TRANSFORMER 'TX2' = 5M WITH ONE RUN OF 3#350MCM, SHORT CIRCUIT AVAILABLE IS CALCULATED AT 19,930 SCA.

DISTANCE FROM TRANSFORMER 'TX2' TO 'DP2' = 50M WITH TWO PARALLEL RUNS #400MCM, DP2 SHORT CIRCUIT AVAILABLE IS CALCULATED AT 15,900 SCA.






THEREFORE, 'SWGR' REQUIRES SHORT CIRCUIT RATING GREATER THAN THE MINIMUM 14,600, IE, 18KA IS NEXT STANDARD SIZE, DP2 REQUIRES SHORT CIRCUIT RATING GREATER THAN THE MINIMUM 15,900 SCA, IE, 18KA IS NEXT STANDARD SIZE, 'BP1' REQUIRES SHORT CIRCUIT RATING GREATER THAN THE MINIMUM 7,800 SCA, IE, 10KA IS NEXT STANDARD SIZE.

ALL OTHER PIECES OF EQUIPMENT ONLY REQUIRE THE MINIMUM 10KA

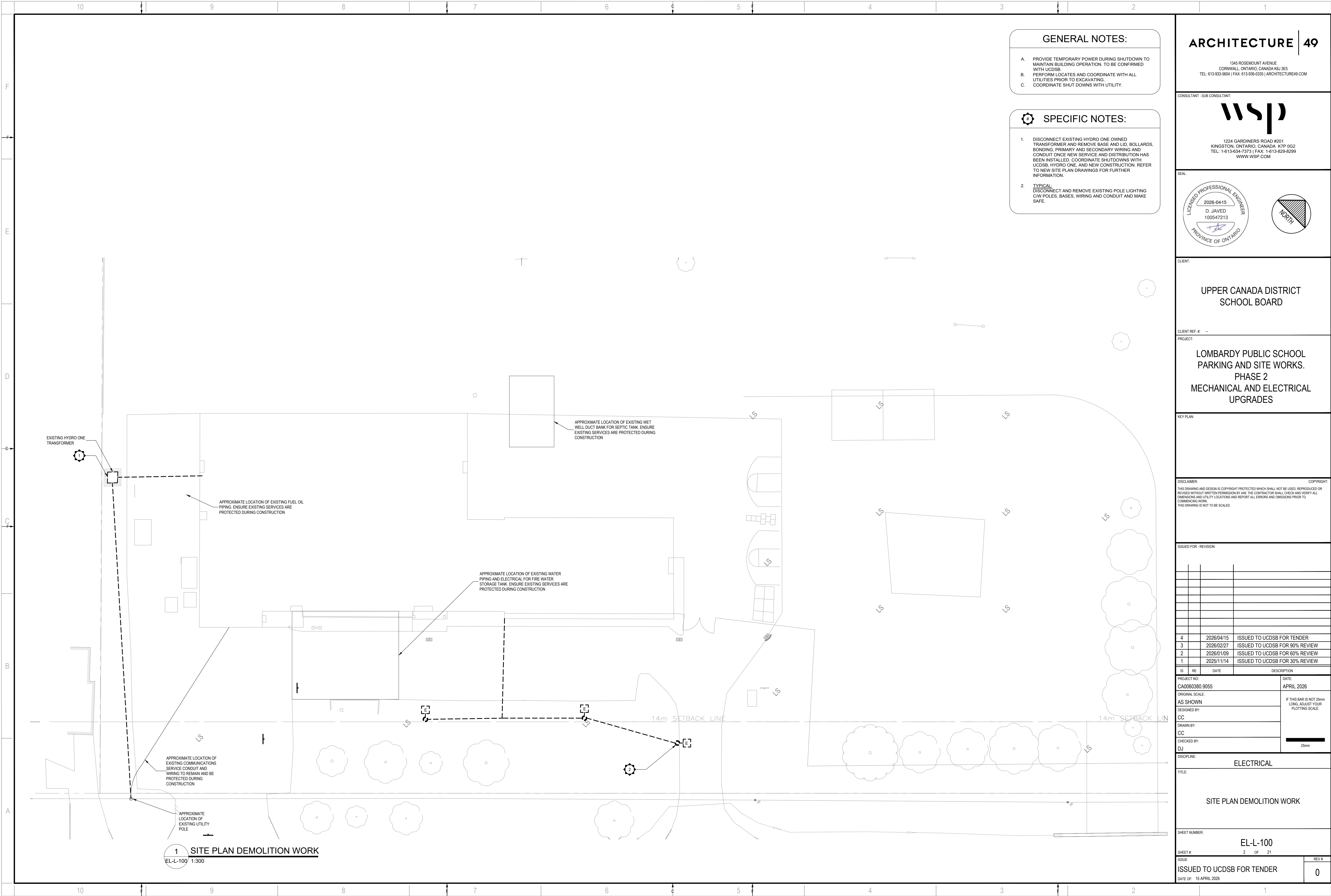
THE ABOVE IDENTIFIES THE DIAGRAMMATIC BASIS OF DESIGN, CONTRACTOR TO PROVIDE SHORT CIRCUIT, COORDINATION AND ARC FLASH STUDY AS PER PROVIDED SPECIFICATION AND SUBMIT AT THE SHOP DRAWING STAGE FOR CONSULTANT APPROVAL BEFORE ORDERING OF ANY EQUIPMENT.

GENERAL NOTES

1. PROVIDE AND INSTALL ALL HANGING HARDWARE FOR ALL LIGHT FIXTURES AND EMERGENCY HEADS. REFER TO ARCHITECTURAL DETAILS FOR EXACT FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF ALL LIGHTING AND EQUIPMENT PRIOR TO ORDERINGS MATERIALS. CONTRACTOR TO CIRCUIT TRACE EXISTING FIXTURE LOADS TO RE-USE IT FOR NEW LIGHTING FIXTURE UPDATE PANEL LEGEND AT THE END OF WORK.
3. EXISTING ELECTRICAL SYSTEM SHOWN IS DIAGRAMMATIC AND BASED ON SITE WALKTHROUGH. THE DRAWINGS MAY NOT REPRESENT "AS-BUILT" CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SITE CONDITIONS PRIOR TO ISSUING TENDER BID.
4. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL DRAWINGS AND SPECIFICATIONS AS PART OF THIS PACKAGE. DRAWINGS ARE NOT MEANT TO BE SPLIT BY DISCIPLINE AND SHALL BE READY AS A COMPLETE PACKAGE.
5. FOR THE PURPOSES OF THIS PROJECT, 'PROVIDE' SHALL MEAN TO SUPPLY AND INSTALL.
6. FOR THE PURPOSES OF THIS PROJECT, 'DEMOLISH' SHALL MEAN MATERIALS AND EQUIPMENT ARE TO BE REMOVED FROM THEIR INSTALLED LOCATION AND DISPOSED OF. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF GARBAGE IN ACCORDANCE WITH CODES, STANDARDS AND REGULATIONS, AND PROVIDE HIS OWN WASTE REMOVAL SERVICES.
7. MAKE PRIOR ARRANGEMENTS AND CAREFULLY PLAN THE DISCONNECTING AND SHUT-DOWN OF ANY EQUIPMENT WITH OWNERS FACILITIES DEPARTMENT.
8. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO CAREFULLY COORDINATE HIS WORK WITH THAT OF OWNER'S STAFF FOR THE BEST SUCCESS OF THIS PROJECT. CONTRACTOR TO:
 - a. FAMILIARIZE HIMSELF WITH THE PROJECT SITE AND REPORT ANY DISCREPANCIES OR SITE CONDITIONS WHICH MAY AFFECT WORK TO CONSULTANT PRIOR TO COMMENCING WORK. IF DISCREPANCIES ARE NOT IDENTIFIED PRIOR TO COMMENCING WORK, CONTRACTOR RESPONSIBLE FOR IMPLEMENTING WORKS PER CONSULTANTS DIRECTION.
 - b. VERIFY EQUIPMENT ROUTING
 - c. VERIFY ALL DIMENSIONS PRIOR TO EQUIPMENT PURCHASE.
 - d. PROTECT BUILDING STRUCTURE FROM DAMAGE
 - e. ENSURE ADJACENT AREAS ARE NOT AFFECTED BY ANY WORK ON THIS PROJECT.
 - f. OBTAIN RELATED PERMITS TO CARRY OUT THE WORK OF THIS PROJECT.
9. ALL SITE LOCATES, SCANNING AND CORING FOR THIS SCOPE OF WORK IS BY THE ELECTRICAL CONTRACTOR.
11. CLEAN AREA OF DEBRIS AT THE END OF EACH WORK DAY
12. SENSOR LOCATIONS ARE APPROXIMATE LOCATIONS FOR MAXIMUM COVERAGE ONLY. COORDINATE WITH CONTRACTOR FOR EXACT LOCATIONS.
13. COORDINATE ALL ELECTRICAL SERVICE WORK WITH HYDRO ONE, INCLUDING BUT NOT LIMITED TO PRIMARY CABLE, DUCTBANKS, CONNECTIONS, TRANSFORMER BASE, GROUNDING. COORDINATE WITH HYDRO ONE AND CARRY ALL COST FOR EXACT TYPE AND SIZE OF EQUIPMENT ONCE CONFIRMED BY HYDRO ONE.

ARCHITECTURE		49																																																																																								
1345 ROSEMOUNT AVENUE CORNWALL, ONTARIO, CANADA K6J 3E5 TEL: 613-935-5804 FAX: 613-936-0355 ARCHITECTURE@9.COM																																																																																										
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LIGHTING FIXTURE SCHEDULE												
TYPE	DESCRIPTION	CATALOGUE NUMBER	LAMPS PER FIXTURE					VOLTS	CRI	MOUNTING	REMARKS	
			NO.	TYPE	COLOUR	LUMENS	WATTS					LUMEN MAINTENANCE TO TM-21
1	EXISTING 150MM ROUND DOWNLIGHT C/W SEMI SPECULAR BAFFLE AND WHITE REFLECTOR	EXISTING	2	QTT	2700K	EXISTING	EXISTING	N/A	120	N/A	T-BAR	:
2	EXISTING 75MM ADJUSTABLE WHITE DOWNLIGHT	EXISTING	1	MR16	2700K	EXISTING	EXISTING	N/A	120	N/A	T-BAR	:
3	EXISTING 610MM X 1220MM FLUORESCENT TROFFER C/W ACRYLIC LENS	EXISTING	1	T8	3000K	EXISTING	EXISTING	N/A	120	N/A	T-BAR	:
4	EXISTING 305MM X 1220MM FLUORESCENT TROFFER C/W ACRYLIC LENS	EXISTING	1	T8	3000K	EXISTING	EXISTING	N/A	120	N/A	T-BAR	:
5	EXISTING 610MM X 1220MM FLUORESCENT TROFFER C/W ACRYLIC LENS AND SURFACE MOUNTED KIT	EXISTING	1	T8	3000K	EXISTING	EXISTING	N/A	120	N/A	SURFACE	:
6	EXISTING 305MM X 1220MM FLUORESCENT SURFACE MOUNTED WRAP STYLE FIXTURE C/W ACRYLIC LENS	EXISTING	1	T8	3000K	EXISTING	EXISTING	N/A	120	N/A	SURFACE	:
7	EXISTING SUSPENDED FLUORESCENT FIXTURE C/W BAFFLES	EXISTING	1	T8	3000K	EXISTING	EXISTING	N/A	120	N/A	SUSPENDED	:
8	EXISTING WALL CUBE STYLE FIXTURE	EXISTING	1	T8	3000K	EXISTING	EXISTING	N/A	120	N/A	WALL	:
9	EXISTING WALL WASH LIGHT FIXTURE	EXISTING	1	T8	3000K	EXISTING	EXISTING	N/A	120	N/A	RECESSED	:
A1	305MM X 1220MM SURFACE MOUNTED WRAP LED FIXTURE WITH ACRYLIC LENS	EQUAL TO COOPER METALUX 4WNLED-LD4-32SL-F-UNV-L835-CD1-U	1	LED	3500K	3,530	27.8	60,000 @ L0.92	120	80	SURFACE MOUNTED TO T-BAR SURFACE MOUNTED TO T-BAR	PROVIDE MOUNTING CLIPS AND JACK CHAINS
A2	305MM X 1220MM SURFACE MOUNTED WRAP LED FIXTURE WITH ACRYLIC LENS	EQUAL TO COOPER METALUX 4WNLED-LD4-40SL-F-UNV-L835-CD1-U	1	LED	3500K	3,849	30.6	60,000 @ L0.92	120	80		PROVIDE MOUNTING CLIPS AND JACK CHAINS
C1	1220MM STRIP FIXTURE C/W SEMI-FROSTED ACRYLIC LENS	EQUAL TO COOPER METALUX 4SNED-LD5-40SL-UNV-L835-CD-1-U	1	LED	3500K	4,014	28	60,000 @ L0.87	120	80	SURFACE	PROVIDE SURFACE MOUNTING KIT
D1	POLE MOUNTED LED LIGHT FIXTURE	EQUAL TO COOPER LUMARK PREVAIL PRV-PA2A-730-U-T3-ADJA-BK	1	LED	3000K	14,343	113	50,000 @ L0.87	120	70	POLE MOUNTED	POLE HEIGHT TO BE 6.1M. PROVIDE LIGHT POLE BASE IN ACCORDANCE WITH OPSD 2200.010. ENSURE POLE, BASE AND LIGHT FIXTURE ARE COORDINATED. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. FIXTURE TO BE C/W PHOTO CELL AND OCCUPANCY SENSOR. REDUCED FIXTURE OUTPUT BY 30% IF NO MOVEMENT IS DETECTED WITHIN 15 MINUTES. CONTRACTOR TO CARRY STRUCTURAL CONSULTANT TO PROVIDE A LETTER STATING ALL ANCHORS ARE AS PER CODE AND STANDARDS ONCE LIGHT POLE IS INSTALLED.
D2	POLE MOUNTED LED LIGHT FIXTURE	EQUAL TO COOPER LUMARK PREVAIL PRV-PA2A-730-U-SWQA-ADJA-BK	1	LED	3000K	14,827	113	50,000 @ L0.87	120	70	POLE MOUNTED	POLE HEIGHT TO BE 4.6M. PROVIDE LIGHT POLE BASE IN ACCORDANCE WITH OPSD 2200.011. ENSURE POLE, BASE AND LIGHT FIXTURE ARE COORDINATED. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. FIXTURE TO BE C/W PHOTO CELL AND OCCUPANCY SENSOR. REDUCED FIXTURE OUTPUT BY 30% IF NO MOVEMENT IS DETECTED WITHIN 15 MINUTES. CONTRACTOR TO CARRY STRUCTURAL CONSULTANT TO PROVIDE A LETTER STATING ALL ANCHORS ARE AS PER CODE AND STANDARDS ONCE LIGHT POLE IS INSTALLED.
	GREEN RUNNING MAN EXIT SIGN	EQUAL TO AIMLITE RPA1W-M-WHT-UNVDC	1	LED	-	-	3	50,000	120/347 VAC 24VDC	N/A	CEILING/WALL	MOUNTING, FACES AND ARROWS TO BE COORDINATED ON SITE PRIOR TO ORDERING.
COORDINATE WITH CEILING TYPE PRIOR TO ORDERING. PROVIDE DRYWALL KITS FOR FIXTURES RECESSED IN DRYWALL												



- GENERAL NOTES:

 - A. PROVIDE TEMPORARY POWER DURING SHUTDOWN TO MAINTAIN BUILDING OPERATION. TO BE CONFIRMED WITH UCDSB.
 - B. PERFORM LOCATES AND COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATING.
 - C. COORDINATE SHUT DOWNS WITH UTILITY.
- SPECIFIC NOTES:

 - 1. DISCONNECT EXISTING HYDRO ONE OWNED TRANSFORMER AND REMOVE BASE AND LID, BOLLARDS, BONDING, PRIMARY AND SECONDARY WIRING AND CONDUIT ONCE NEW SERVICE AND DISTRIBUTION HAS BEEN INSTALLED. COORDINATE SHUTDOWNS WITH UCDSB, HYDRO ONE, AND NEW CONSTRUCTION. REFER TO NEW SITE PLAN DRAWINGS FOR FURTHER INFORMATION.
 - 2. TYPICAL: DISCONNECT AND REMOVE EXISTING POLE LIGHTING C/W POLES, BASES, WIRING AND CONDUIT AND MAKE SAFE.

ARCHITECTURE | 49

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CORNWALL, ONTARIO, CANADA K6J 3E5
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KINGSTON, ONTARIO, CANADA K7P 0G2
TEL: 1-613-634-7373 | FAX: 1-613-629-8299
WWW.WSP.COM

SEAL:

CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. # --

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY HAS. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

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IS	RE	DATE	DESCRIPTION
4		2026/04/15	ISSUED TO UCDSB FOR TENDER
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2		2026/01/09	ISSUED TO UCDSB FOR 60% REVIEW
1		2025/11/14	ISSUED TO UCDSB FOR 30% REVIEW

PROJECT NO:

CA0060380.9055

ORIGINAL SCALE:

AS SHOWN

DESIGNED BY:

CC

DRAWN BY:

CC

CHECKED BY:

DJ

DATE:

APRIL 2026

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

25mm

DISCIPLINE:

ELECTRICAL

TITLE:

SITE PLAN DEMOLITION WORK

SHEET NUMBER:

EL-L-100

SHEET #

2 OF 21

ISSUE:

ISSUED TO UCDSB FOR TENDER

DATE OF: 15 APRIL 2026

REV #

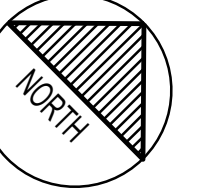
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ISSUED FOR - REVISION

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PROJECT NO:	CA0060380.9055	DATE:	APRIL 2026
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	CC		
DRAWN BY:	CC		
CHECKED BY:	DJ		

DISCIPLINE: ELECTRICAL

TITLE: SITE PLAN NEW WORK

SHEET NUMBER:

EL-L-101

SHEET #:

3 OF 21

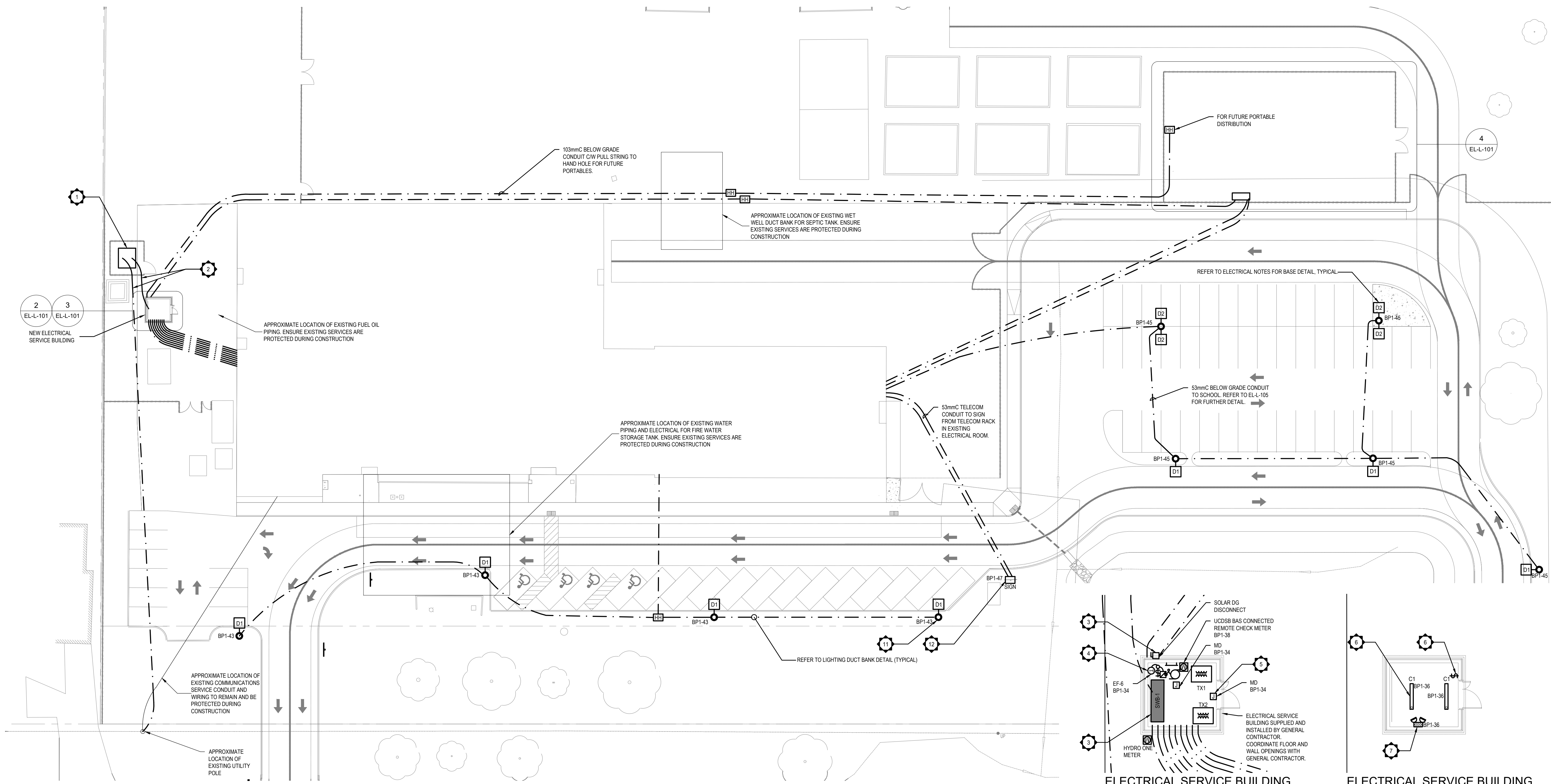
ISSUE:

ISSUED TO UCDSB FOR TENDER

DATE OF: 15 APRIL 2026

REV #:

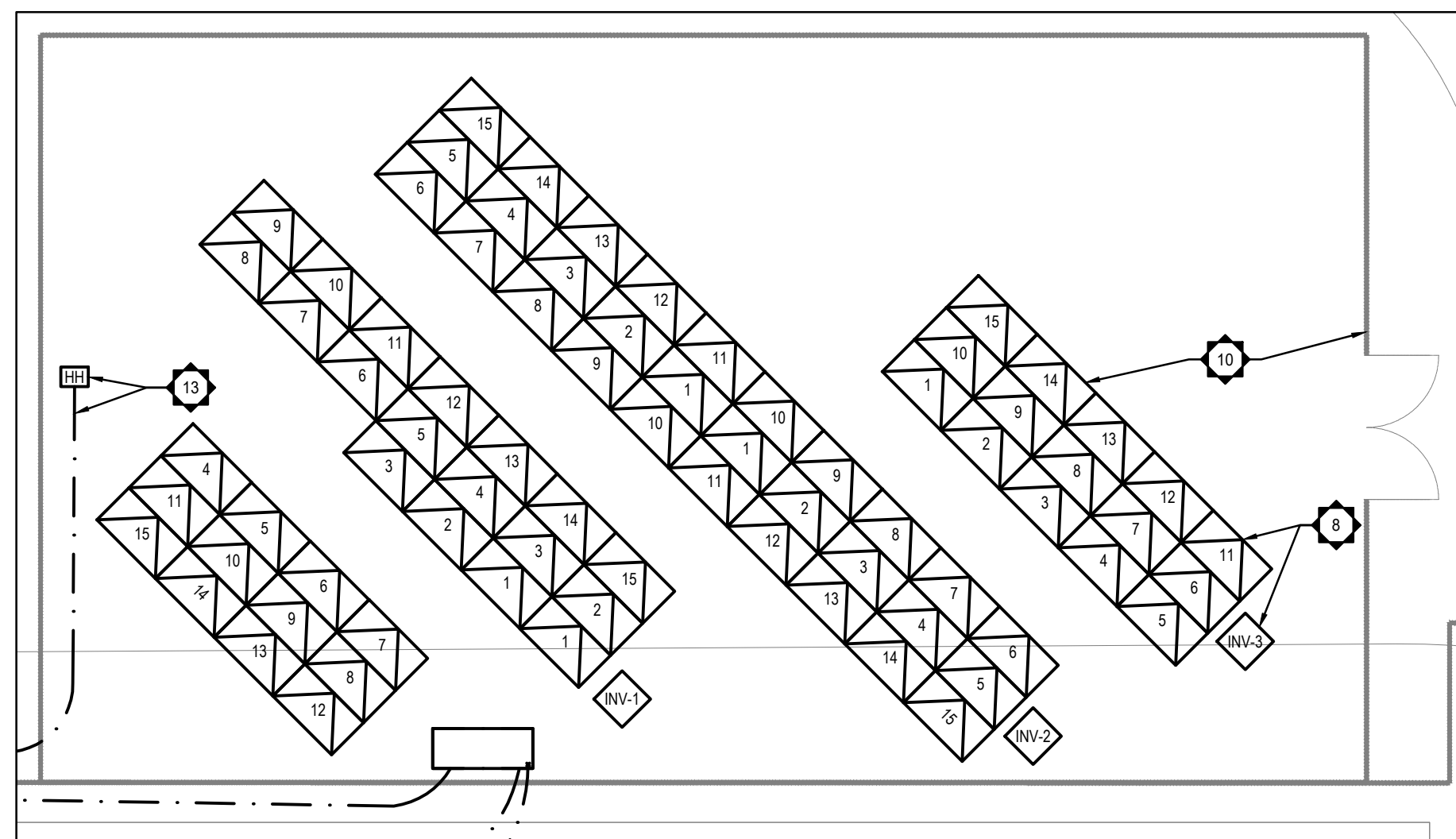
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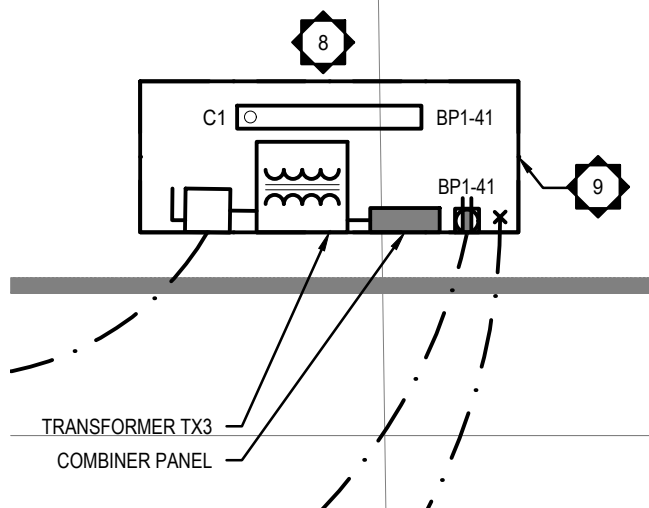
1 SITE PLAN NEW WORK
EL-L-101/ 1:300

2 ELECTRICAL SERVICE BUILDING
DETAIL NEW POWER
EL-L-101/ 1:100

3 ELECTRICAL SERVICE BUILDING
DETAIL NEW LIGHTING
EL-L-101/ 1:100



4 PV NEW WORK
EL-L-101/ 1:150



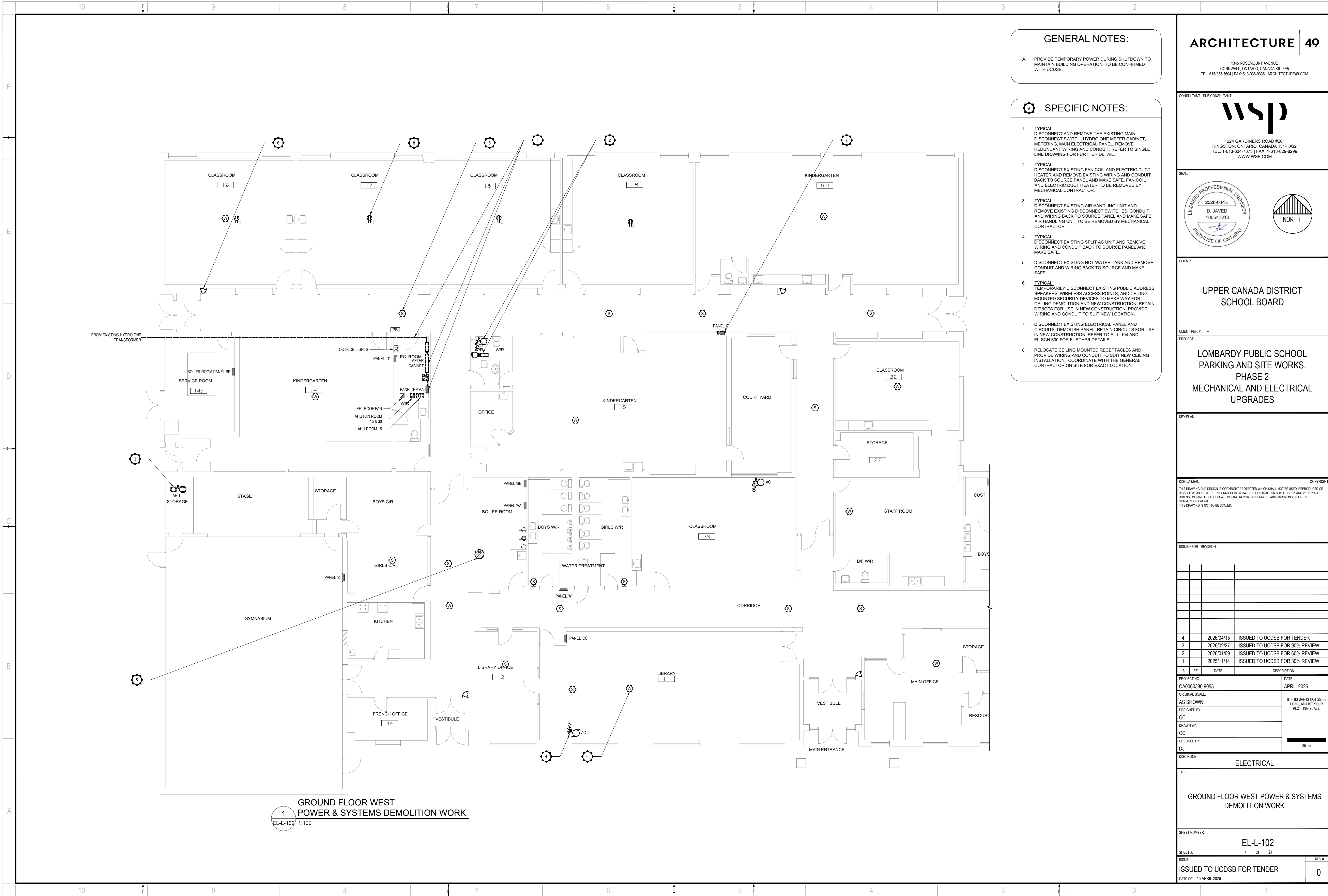
5 PV KIOSK
EL-L-101/ 1:50

GENERAL NOTES:

- PROVIDE TEMPORARY POWER DURING SHUTDOWN TO MAINTAIN BUILDING OPERATION. TO BE CONFIRMED WITH UCDSB.
- PERFORM LOCATES AND COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATING.
- COORDINATE SHUT DOWNS WITH UTILITY.
- ENSURE CARE IS TAKEN BETWEEN UTILITY POLE AND SCHOOL AS THERE IS EXISTING TELECOMMUNICATIONS CONDUITS AND CABLES EXTENDING FROM UTILITY POLE TO SCHOOL. ENSURE SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 No.7 Section 6.
- ENSURE CARE IS TAKEN BETWEEN ELECTRICAL SERVICE BUILDING AND SCHOOL AS THERE IS EXISTING FUEL OIL PIPING. ENSURE SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 No.7 Section 6.
- ENSURE CARE IS TAKEN BETWEEN FIRE WATER STORAGE TANK AND SCHOOL AS THERE IS EXISTING WATER PIPING AND ELECTRICAL CONDUITS AND CABLES EXTENDING FROM WATER STORAGE TANK TO SCHOOL. ENSURE SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 No.7 Section 6.
- ENSURE CARE IS TAKEN BETWEEN SEPTIC TANK SERVICES AND SCHOOL AS THERE IS EXISTING WATER PIPING AND ELECTRICAL CONDUITS AND CABLES EXTENDING FROM SEPTIC TANK TO SCHOOL. ENSURE SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 No.7 Section 6.

SPECIFIC NOTES:

- PROVIDE NEW TRANSFORMER BASE AND LID C/W BONDING AND BOLLARDS. COORDINATE SHUTDOWNS WITH UCDSB AND HYDRO ONE. TRANSFORMER BASE, LID, GROUNDING AS PER HYDRO ONE CODES AND STANDARDS.
- PROVIDE NEW PRIMARY AND SECONDARY WIRING, CONDUIT, BONDING AND DUCT BANKS. REFER TO NEW SINGLE LINE DRAWING FOR FURTHER INFORMATION. PRIMARY FEED AS PER HYDRO ONE CODES AND STANDARDS.
- TYPICAL: PROVIDE NEW DISTRIBUTION EQUIPMENT AND GROUNDING C/W WIRING AND CONDUIT FOR A COMPLETE INSTALLATION. REFER TO EL-D-504 AND EL-D-505 FOR MORE INFORMATION.
- PROVIDE NEW MOTOR RATED SWITCH C/W LOCKABLE TABS AND PILOT LIGHT, STARTER, WIRING AND CONDUIT TO NEW EXHAUST FAN. INSTALL AND INTERCONNECT LINE VOLTAGE THERMOSTAT, SUPPLIED BY MECHANICAL CONTRACTOR.
- TYPICAL: PROVIDE NEW WIRING AND CONDUIT TO MOTORIZED DAMPERS. MOTORIZED DAMPERS SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.
- TYPICAL: PROVIDE NEW LIGHT FIXTURES AND CONTROLS C/W WIRING AND CONDUIT BACK TO PANEL.
- PROVIDE NEW EMERGENCY BATTERY UNIT C/W DUAL INTEGRAL HEADS, WIRING AND CONDUIT, AND NEW CIRCUIT. EMERGI-LITE MPRE SERIES 6MPRE-24-W-U-2-LB.
- TYPICAL: PROVIDE NEW PV SYSTEM C/W PV COMBINER PANEL, PV PANELS, PV SUPPORT STRUCTURES, INVERTERS, CABLES, CONTROLLERS, ENCLOSURES AND DISTRIBUTION SYSTEM. INVERTER TO BE LOCATED AT A MAXIMUM DISTANCE OF 1M FROM SOLAR ARRAY STRING OUTPUT. STAMPED ENGINEERING DRAWINGS TO BE PROVIDED.
- PROVIDE NEW NEMA 4X RATED KIOSK TO HOUSE NEW COMBINER PANEL, DISCONNECT SWITCH AND TRANSFORMER.
- PROVIDE BONDING OF NEW FENCE, AND PV RACKING SYSTEM, BACK TO BUILDING GROUND.
- TYPICAL: PROVIDE NEW POLE MOUNTED LED LIGHT FIXTURES C/W BASE, POLE, WIRING, CONDUIT AND CONTROLS. REFER TO LIGHTING SCHEDULE FOR FURTHER INFORMATION. REFER TO GEL-D-502 FOR FURTHER DETAIL. COORDINATE WITH GENERAL CONTRACTOR FOR REINSTATEMENT WORK INCLUDING ASPHALT, PAVEMENT, SODDING, SEEDING, ETC.
- PROVIDE NEW CIRCUIT C/W WIRING, POWER CONDUIT & TELECOM CONDUIT FOR NEW DIGITAL SIGN. TELECOM CONDUIT TO TERMINATE BACK AT TELECOM RACK IN EXISTING MAIN ELECTRICAL ROOM.
- PROVIDE NEW CONDUIT C/W PULL STRING AND HAND HOLE FOR FUTURE PORTABLES.



GENERAL NOTES:

- A. PROVIDE TEMPORARY POWER DURING SHUTDOWN TO MAINTAIN BUILDING OPERATION. TO BE CONFIRMED WITH UCDSB.

SPECIFIC NOTES:

1. TYPICAL: DISCONNECT AND REMOVE THE EXISTING MAIN DISCONNECT SWITCH, HYDRO ONE METER CABINET, METERING, MAIN ELECTRICAL PANEL. REMOVE REDUNDANT WIRING AND CONDUIT. REFER TO SINGLE LINE DRAWING FOR FURTHER DETAIL.
2. TYPICAL: DISCONNECT EXISTING FAN COIL AND ELECTRIC DUCT HEATER AND REMOVE EXISTING WIRING AND CONDUIT BACK TO SOURCE PANEL AND MAKE SAFE. FAN COIL AND ELECTRIC DUCT HEATER TO BE REMOVED BY MECHANICAL CONTRACTOR.
3. TYPICAL: DISCONNECT EXISTING AIR HANDLING UNIT AND REMOVE EXISTING DISCONNECT SWITCHES. CONDUIT AND WIRING BACK TO SOURCE PANEL AND MAKE SAFE. AIR HANDLING UNIT TO BE REMOVED BY MECHANICAL CONTRACTOR.
4. TYPICAL: DISCONNECT EXISTING SPLIT AC UNIT AND REMOVE WIRING AND CONDUIT BACK TO SOURCE PANEL AND MAKE SAFE.
5. DISCONNECT EXISTING HOT WATER TANK AND REMOVE CONDUIT AND WIRING BACK TO SOURCE AND MAKE SAFE.
6. TYPICAL: TEMPORARILY DISCONNECT EXISTING PUBLIC ADDRESS SPEAKERS, WIRELESS ACCESS POINTS, AND CEILING MOUNTED SECURITY DEVICES TO MAKE WAY FOR CEILING DEMOLITION AND NEW CONSTRUCTION. RETAIN DEVICES FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
7. DISCONNECT EXISTING ELECTRICAL PANEL AND CIRCUITS. DEMOLISH PANEL. RETAIN CIRCUITS FOR USE IN NEW CONSTRUCTION. REFER TO EL-L-104 AND EL-SCH-600 FOR FURTHER DETAILS.
8. RELOCATE CEILING MOUNTED RECEPTACLES AND PROVIDE WIRING AND CONDUIT TO SUIT NEW CEILING INSTALLATION. COORDINATE WITH THE GENERAL CONTRACTOR ON SITE FOR EXACT LOCATION.

ARCHITECTURE | 49

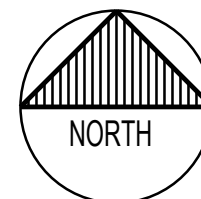
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PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

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DEMOLITION WORK

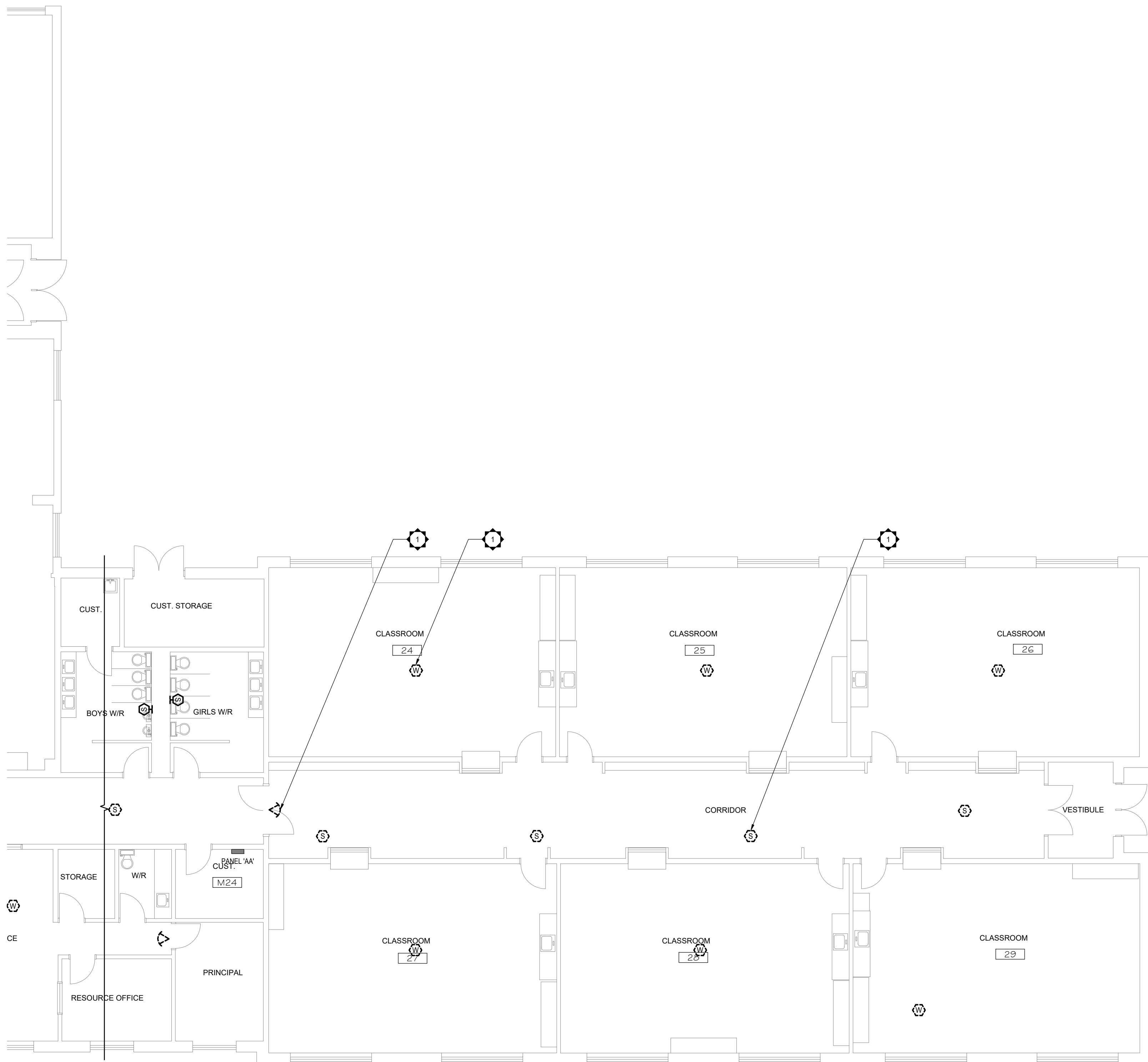
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EL-L-102

SHEET # 4 OF 21

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SPECIFIC NOTES:

1. TYPICAL:
TEMPORARILY DISCONNECT EXISTING PUBLIC ADDRESS SPEAKERS, WIRELESS ACCESS POINTS, AND CEILING MOUNTED SECURITY DEVICES TO MAKE WAY FOR CEILING DEMOLITION AND NEW CONSTRUCTION. RETAIN DEVICES FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.

ARCHITECTURE | 49

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TITLE:
**GROUND FLOOR EAST POWER & SYSTEMS
DEMOLITION WORK**

SHEET NUMBER:
EL-L-103

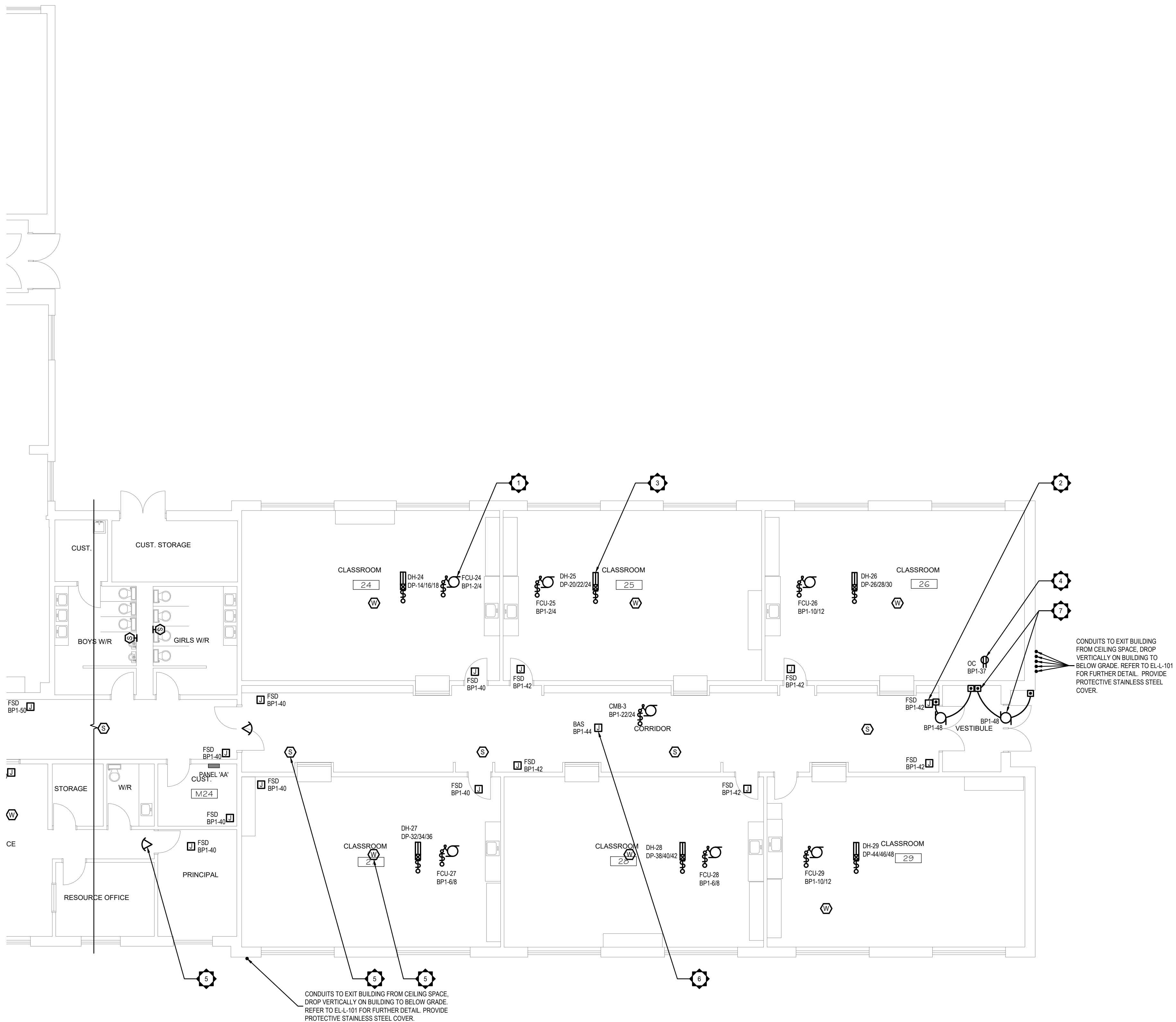
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1
**GROUND FLOOR EAST
POWER & SYSTEMS DEMOLITION WORK**
EL-L-103 1:100



1
GROUND FLOOR EAST
POWER & SYSTEMS NEW WORK
EL-L-105 1:100

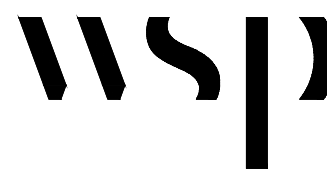
SPECIFIC NOTES:

- TYPICAL:**
PROVIDE NEW MOTOR RATED SWITCH C/W LOCKABLE TABS AND PILOT LIGHT. WIRING AND CONDUIT TO NEW FAN COILS. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
- TYPICAL:**
PROVIDE 15A 120V CIRCUIT C/W FINAL CONNECTION TO COMBINATION FIRE SMOKE DAMPER. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION AND QUANTITY OF HARDWARE CONNECTIONS. REFER TO DRAWING EL-L-110, EL-L-111, EL-D-502 FOR FURTHER DETAIL.
- TYPICAL:**
PROVIDE NEW MOTOR RATED SWITCH C/W LOCKABLE TABS AND PILOT LIGHT. WIRING AND CONDUIT TO NEW ELECTRIC DUCT HEATERS. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
- PROVIDE NEW RECEPTACLE C/W WIRING AND CONDUIT FOR PV TELECOM REPEATER.
- TYPICAL:**
REINSTATE PUBLIC ADDRESS SPEAKERS, WIRELESS ACCESS POINTS, AND CEILING MOUNTED SECURITY DEVICES ONCE NEW CEILING AND MECHANICAL CONSTRUCTION HAS BEEN COMPLETED. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
- TYPICAL:**
PROVIDE NEW CIRCUIT C/W WIRING AND CONDUIT TO BAS CONTROLLERS. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
- TYPICAL:**
PROVIDE NEW CIRCUIT AND FINAL CONNECTION TO NEW BARRIER FREE OPERATOR. BARRIER FREE OPERATOR SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. WIRED BY ELECTRICAL.

ARCHITECTURE | 49

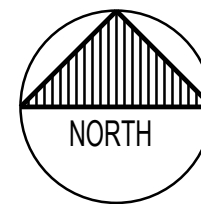
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PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

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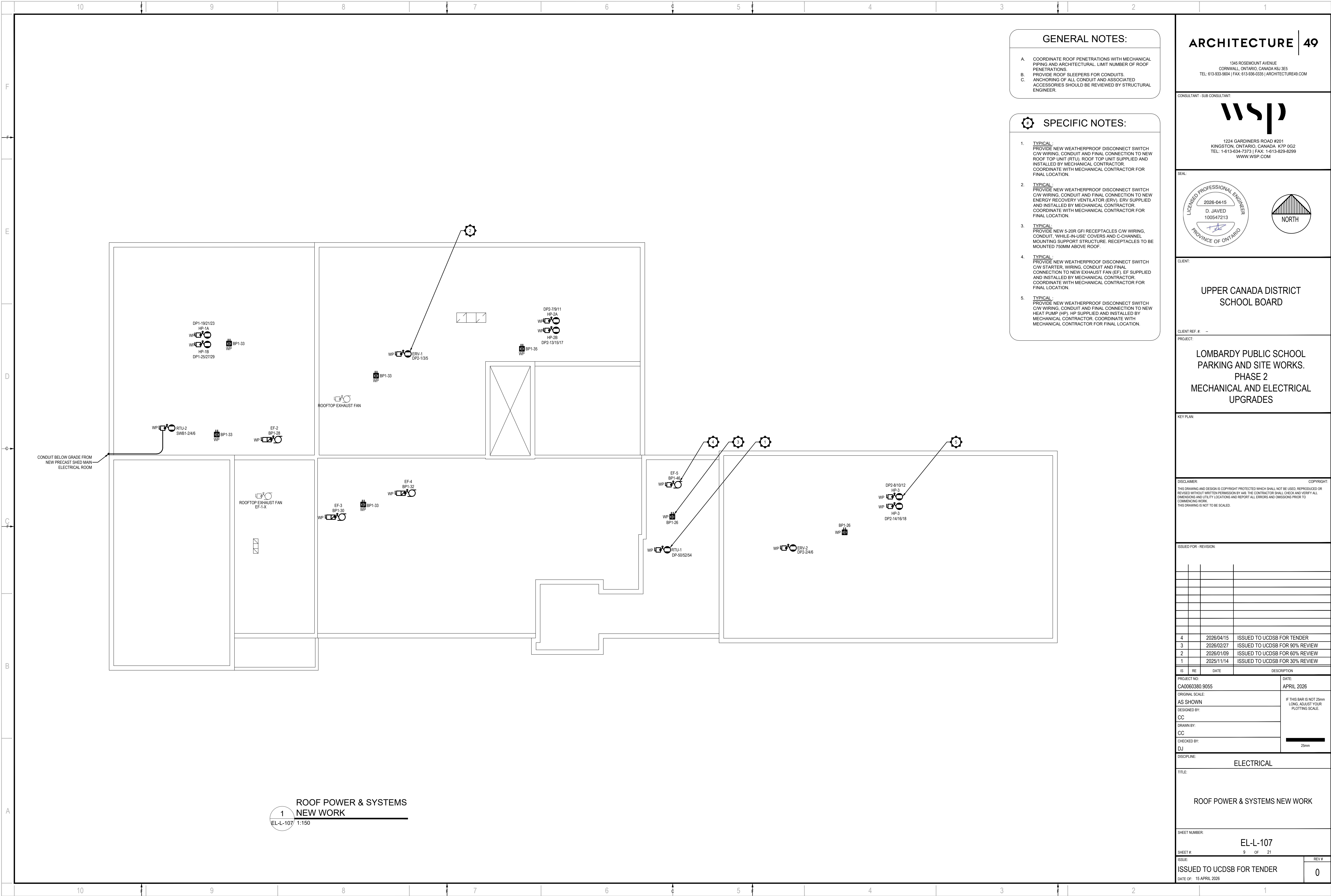
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TITLE:	GROUND FLOOR EAST POWER & SYSTEMS NEW WORK		
SHEET NUMBER:	EL-L-105		
SHEET #:	7	OF	21
ISSUE:	ISSUED TO UCDSB FOR TENDER		REV #
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GENERAL NOTES:

A. COORDINATE ROOF PENETRATIONS WITH MECHANICAL PIPING AND ARCHITECTURAL. LIMIT NUMBER OF ROOF PENETRATIONS.

B. PROVIDE ROOF SLEEPERS FOR CONDUITS.

C. ANCHORING OF ALL CONDUIT AND ASSOCIATED ACCESSORIES SHOULD BE REVIEWED BY STRUCTURAL ENGINEER.

- SPECIFIC NOTES:**
- TYPICAL:** PROVIDE NEW WEATHERPROOF DISCONNECT SWITCH C/W WIRING, CONDUIT AND FINAL CONNECTION TO NEW ROOF TOP UNIT (RTU). ROOF TOP UNIT SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
 - TYPICAL:** PROVIDE NEW WEATHERPROOF DISCONNECT SWITCH C/W WIRING, CONDUIT AND FINAL CONNECTION TO NEW ENERGY RECOVERY VENTILATOR (ERV). ERV SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
 - TYPICAL:** PROVIDE NEW 5-20R GFI RECEPTACLES C/W WIRING, CONDUIT, WHILE-IN-USE COVERS AND CCHANNEL MOUNTING SUPPORT STRUCTURE. RECEPTACLES TO BE MOUNTED 750MM ABOVE ROOF.
 - TYPICAL:** PROVIDE NEW WEATHERPROOF DISCONNECT SWITCH C/W STARTER, WIRING, CONDUIT AND FINAL CONNECTION TO NEW EXHAUST FAN (EF). EF SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
 - TYPICAL:** PROVIDE NEW WEATHERPROOF DISCONNECT SWITCH C/W WIRING, CONDUIT AND FINAL CONNECTION TO NEW HEAT PUMP (HP). HP SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.

ARCHITECTURE | 49

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PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN

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TITLE:

ROOF POWER & SYSTEMS NEW WORK

SHEET NUMBER:

EL-L-107

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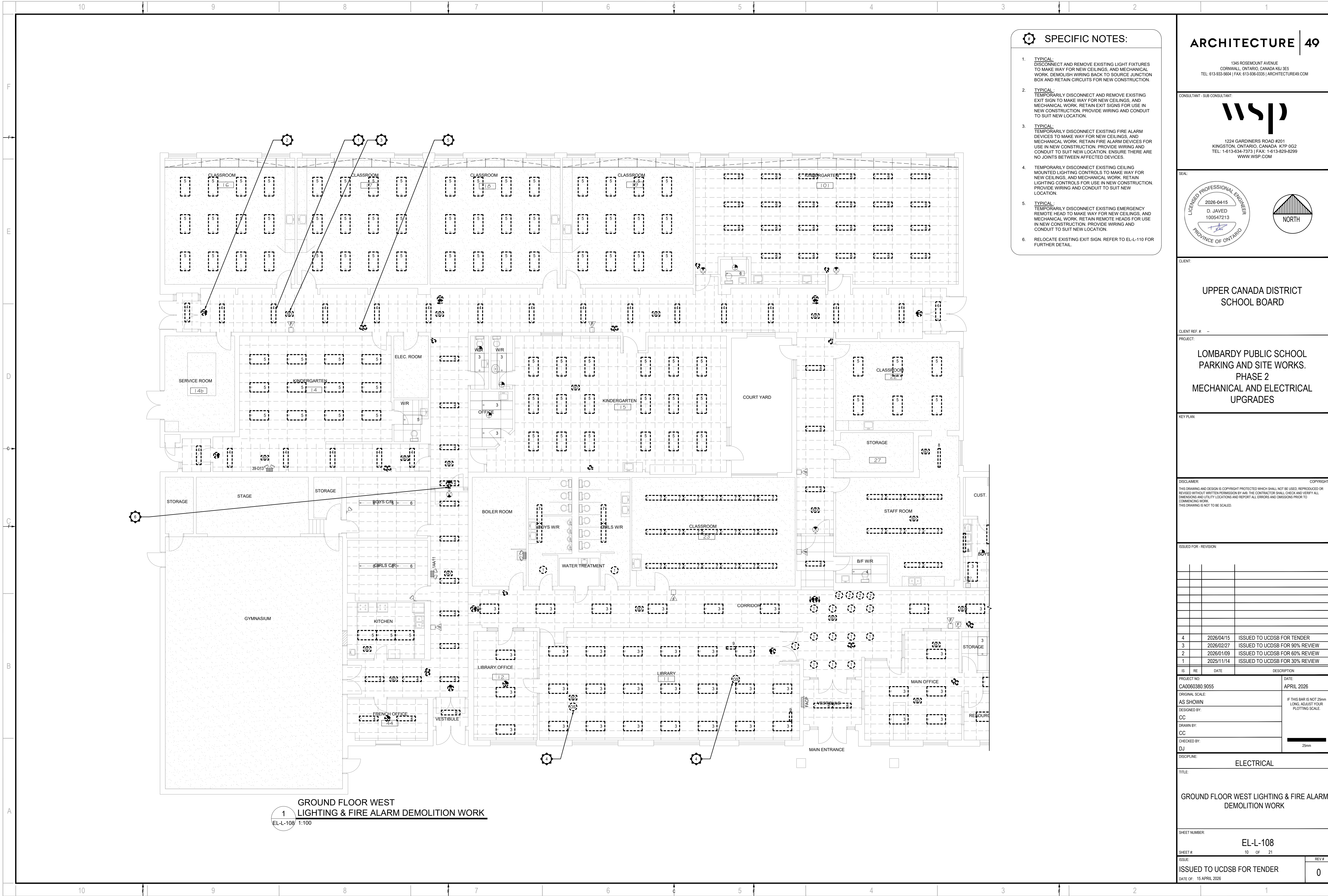
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1
GROUND FLOOR WEST
LIGHTING & FIRE ALARM DEMOLITION WORK
EL-L-108 1:100

SPECIFIC NOTES:

1. **TYPICAL:**
DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. DEMOLISH WIRING BACK TO SOURCE JUNCTION BOX AND RETAIN CIRCUITS FOR NEW CONSTRUCTION.
2. **TYPICAL:**
TEMPORARILY DISCONNECT AND REMOVE EXISTING EXIT SIGN TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. RETAIN EXIT SIGNS FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
3. **TYPICAL:**
TEMPORARILY DISCONNECT EXISTING FIRE ALARM DEVICES TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. RETAIN FIRE ALARM DEVICES FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION. ENSURE THERE ARE NO JOINTS BETWEEN AFFECTED DEVICES.
4. **TYPICAL:**
TEMPORARILY DISCONNECT EXISTING CEILING MOUNTED LIGHTING CONTROLS TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. RETAIN LIGHTING CONTROLS FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
5. **TYPICAL:**
TEMPORARILY DISCONNECT EXISTING EMERGENCY REMOTE HEAD TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. RETAIN REMOTE HEADS FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
6. RELOCATE EXISTING EXIT SIGN. REFER TO EL-L-110 FOR FURTHER DETAIL.

ARCHITECTURE | 49

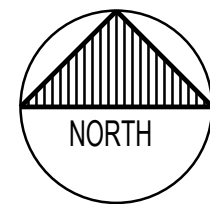
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PROJECT:

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PHASE 2
MECHANICAL AND ELECTRICAL
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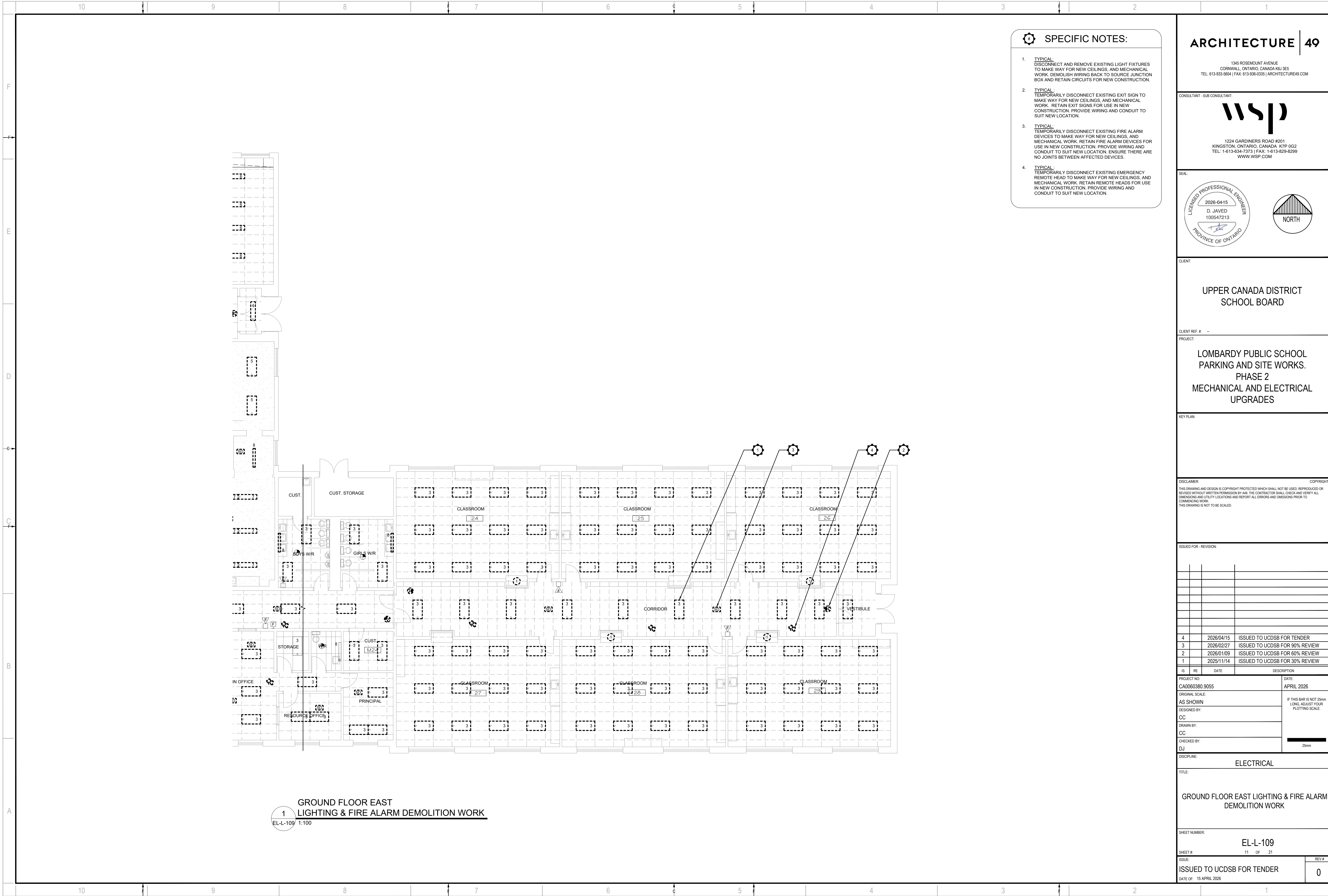
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GROUND FLOOR WEST LIGHTING & FIRE ALARM
DEMOLITION WORK

SHEET NUMBER: EL-L-108	REV # 0
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SPECIFIC NOTES:

- TYPICAL:**
DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. DEMOLISH WIRING BACK TO SOURCE JUNCTION BOX AND RETAIN CIRCUITS FOR NEW CONSTRUCTION.
- TYPICAL:**
TEMPORARILY DISCONNECT EXISTING EXIT SIGN TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. RETAIN EXIT SIGNS FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
- TYPICAL:**
TEMPORARILY DISCONNECT EXISTING FIRE ALARM DEVICES TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. RETAIN FIRE ALARM DEVICES FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION. ENSURE THERE ARE NO JOINTS BETWEEN AFFECTED DEVICES.
- TYPICAL:**
TEMPORARILY DISCONNECT EXISTING EMERGENCY REMOTE HEAD TO MAKE WAY FOR NEW CEILINGS, AND MECHANICAL WORK. RETAIN REMOTE HEADS FOR USE IN NEW CONSTRUCTION. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.

ARCHITECTURE | 49

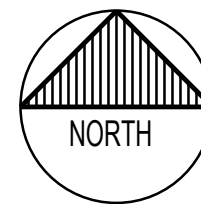
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PROJECT:

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PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
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TITLE:

GROUND FLOOR EAST LIGHTING & FIRE ALARM
DEMOLITION WORK

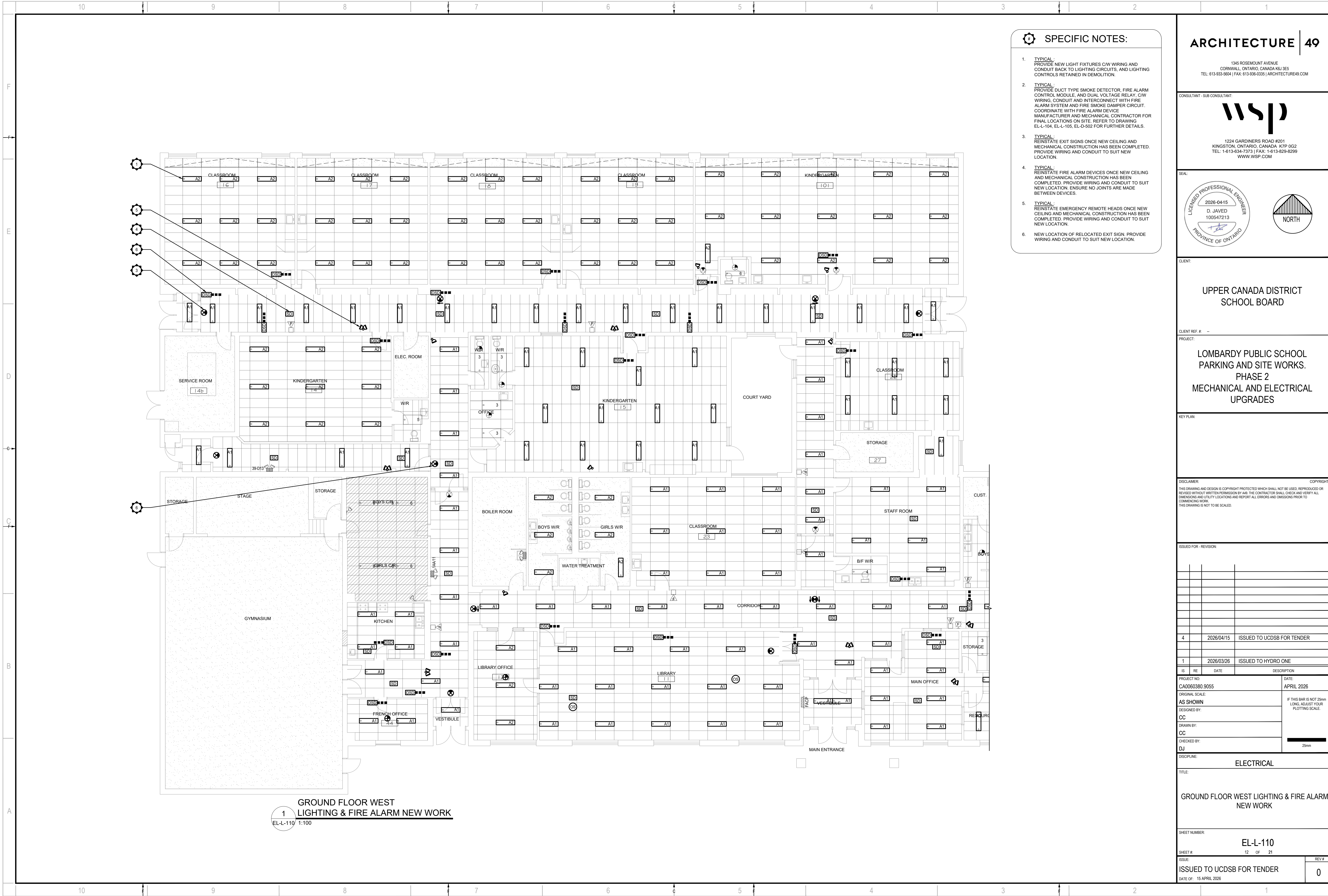
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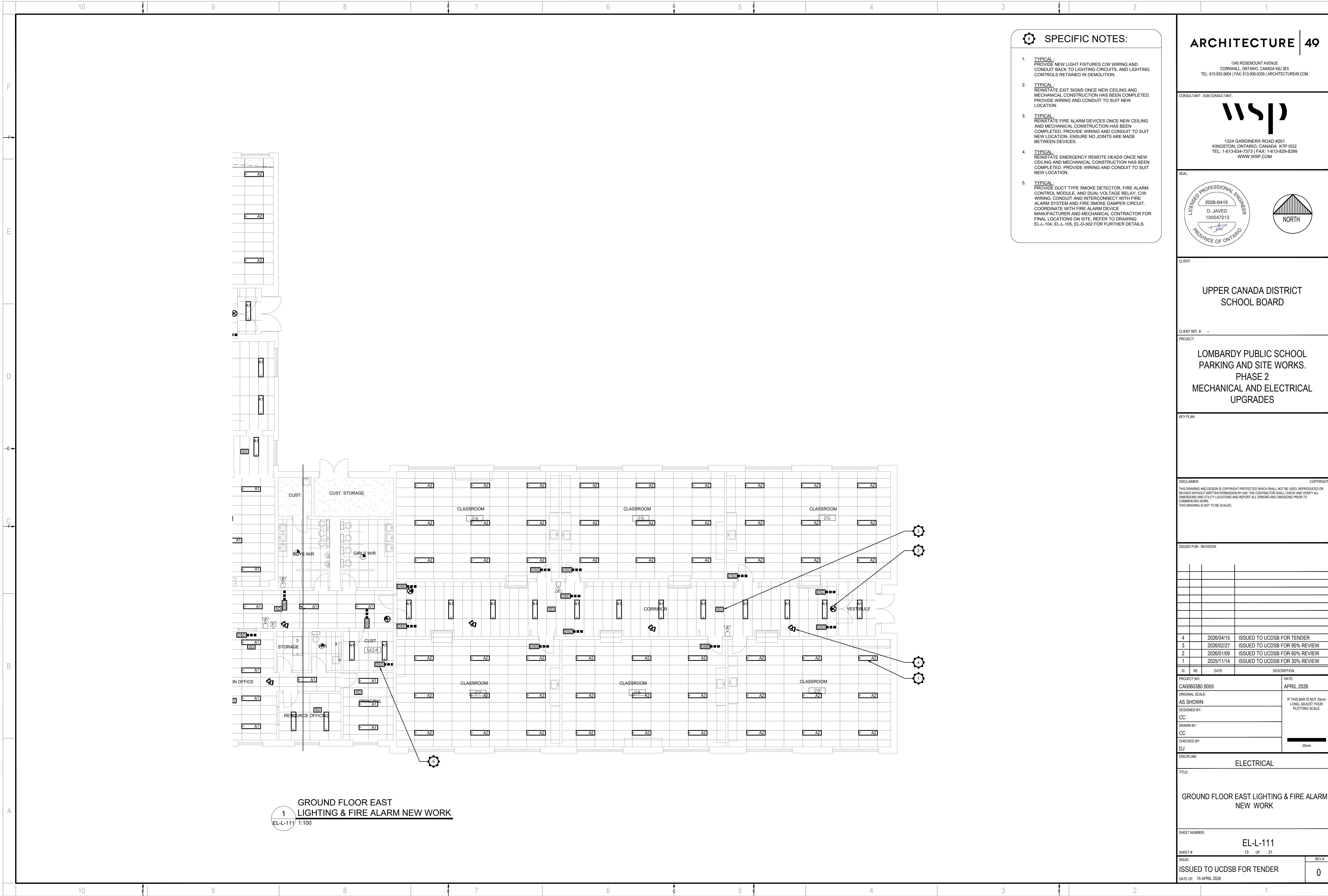
EL-L-109

SHEET # 11 OF 21

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SPECIFIC NOTES:

- TYPICAL:**
PROVIDE NEW LIGHT FIXTURES C/W WIRING AND CONDUIT BACK TO LIGHTING CIRCUITS, AND LIGHTING CONTROLS RETAINED IN DEMOLITION.
- TYPICAL:**
REINSTATE EXIT SIGNS ONCE NEW CEILING AND MECHANICAL CONSTRUCTION HAS BEEN COMPLETED. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
- TYPICAL:**
REINSTATE FIRE ALARM DEVICES ONCE NEW CEILING AND MECHANICAL CONSTRUCTION HAS BEEN COMPLETED. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION. ENSURE NO JOINTS ARE MADE BETWEEN DEVICES.
- TYPICAL:**
REINSTATE EMERGENCY REMOTE HEADS ONCE NEW CEILING AND MECHANICAL CONSTRUCTION HAS BEEN COMPLETED. PROVIDE WIRING AND CONDUIT TO SUIT NEW LOCATION.
- TYPICAL:**
PROVIDE DUCT TYPE SMOKE DETECTOR, FIRE ALARM CONTROL MODULE, AND DUAL VOLTAGE RELAY. C/W WIRING, CONDUIT AND INTERCONNECT WITH FIRE ALARM SYSTEM AND FIRE SMOKE DAMPER CIRCUIT. COORDINATE WITH FIRE ALARM DEVICE MANUFACTURER AND MECHANICAL CONTRACTOR FOR FINAL LOCATIONS ON SITE. REFER TO DRAWING EL-L-104, EL-L-105, EL-D-502 FOR FURTHER DETAILS.

ARCHITECTURE | 49

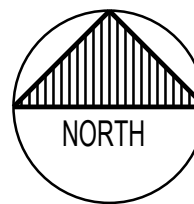
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CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. # --

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN:

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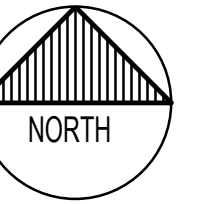
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GROUND FLOOR EAST LIGHTING & FIRE ALARM
NEW WORK

SHEET NUMBER: EL-L-111	ISSUE: ISSUED TO UCDSB FOR TENDER	REV #: 0
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DJ			

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DETAILS 1 OF 3

EL-D-500

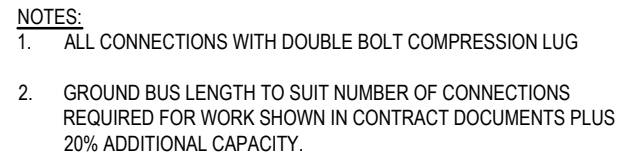
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ISSUE: _____

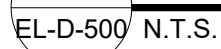
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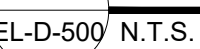
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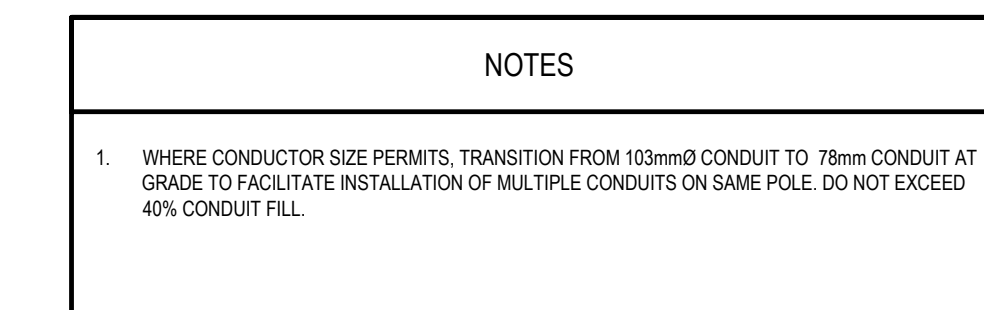
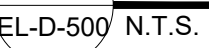
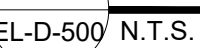
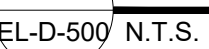
EL-D-500 N.T.S.



PRELIMINARY: PENDING HYDRO ONE LAYOUT

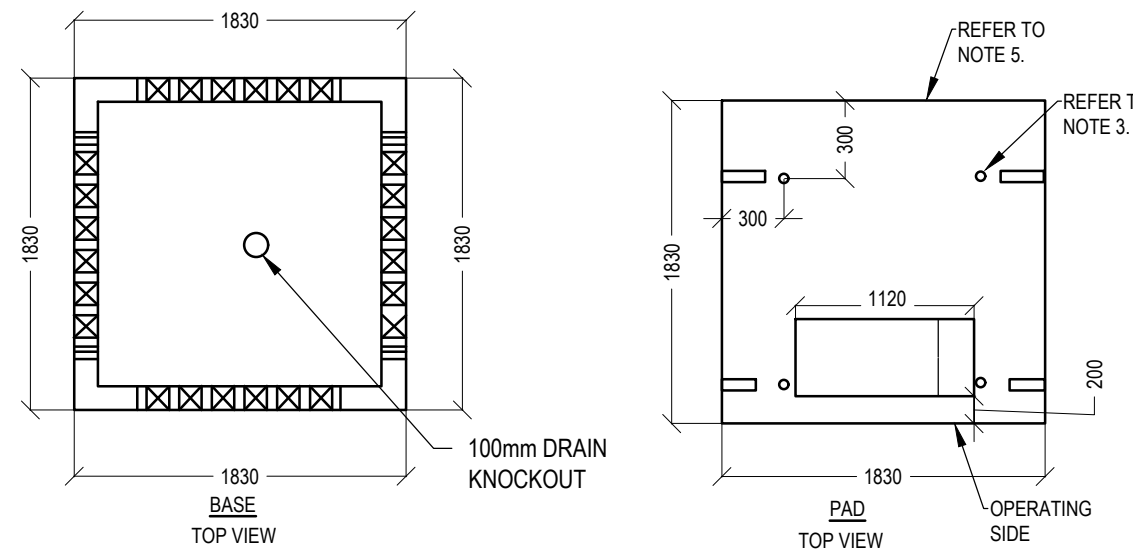


PRELIMINARY: PENDING HYDRO ONE LAYOUT



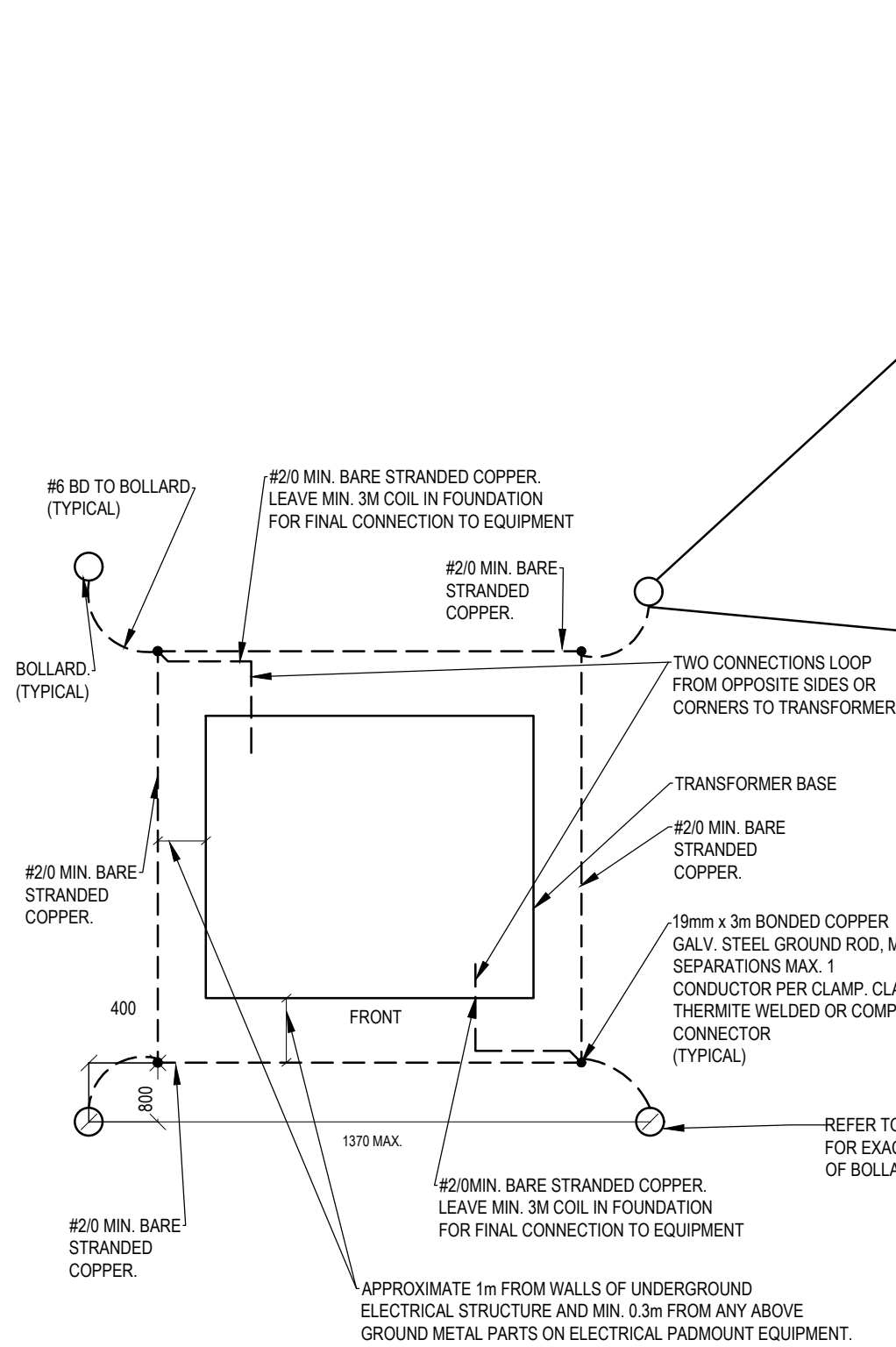
EL-D-500 N.T.S.

1. WHERE CONDUCTOR SIZE PERMITS, TRANSITION FROM 103mmØ CONDUIT TO 78mm CONDUIT AT GRADE TO FACILITATE INSTALLATION OF MULTIPLE CONDUITS ON SAME POLE. DO NOT EXCEED 40% CONDUIT FILL.



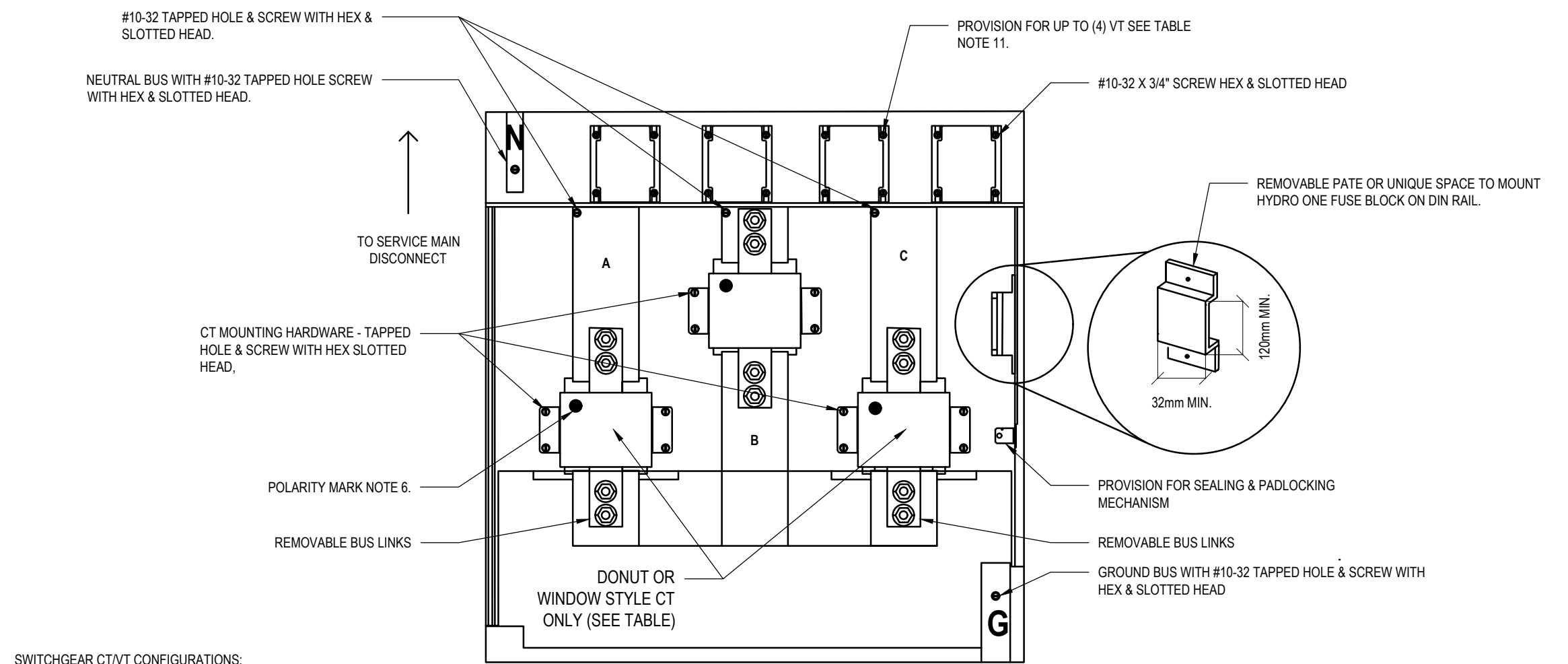
- NOTES:
1. APPROXIMATE MASS OF FOUNDATION IS 2730KG.
 2. CABLE ENTRY OPENINGS: PVC SEALS FOR 103mm DUCTS.
 3. 1/2" UNC PLASTIC THREADED INSERT.
 4. UNITS IN mm UNLESS NOTED OTHERWISE.
 5. LID THICKNESS = 150MM, LID MASS APPROXIMATE = 1000KG.
 6. A CONCRETE BASE TO BE USED FOR INSTALLATIONS IN SOIL WITH POOR BEARING CAPACITY. REFER TO ARCH. CONSULTANT.

1 TRANSFORMER BASE DETAIL
EL-D-501/ N.T.S.



- NOTES
1. INSTALL GROUND LOOP BURIED TO A MAX DEPTH OF 600mm BELOW ROUGH GRADE AND A MINIMUM OF 150mm BELOW FINISHED GRADE APPROXIMATELY 1m FROM WALLS OF UNDERGROUND ELECTRICAL STRUCTURE AND MIN. 1m FROM ANY ABOVE GROUND METAL PARTS ON ELECTRICAL PADMOUNT EQUIPMENT.
 2. PROVIDE TWO CONNECTIONS TO TRANSFORMER GROUND LOOP FROM OPPOSITE SIDES OR CORNERS. LEAVE MIN 2m ADDITIONAL LENGTH INSIDE TRANSFORMER BASE FOR EACH CONDUCTOR.
 3. PROVIDE 19mm x 3m BONDED COPPER CLAD STEEL GROUND ROD, MIN. 3m APART. MAXIMUM 1 CONDUCTOR PER CLAMP.
 4. INSPECTION OF GROUND LOOP BY HYDRO ONE REQUIRED PRIOR TO BACKFILL.
 5. WELD A COMPRESSION CONNECTOR TO EACH BOLLARD FOR ATTACHMENT OF GROUND STUD AND APPROVED BOND WIRE CONNECTOR.

2 TRANSFORMER GROUNDING DETAIL
EL-D-501/ N.T.S.

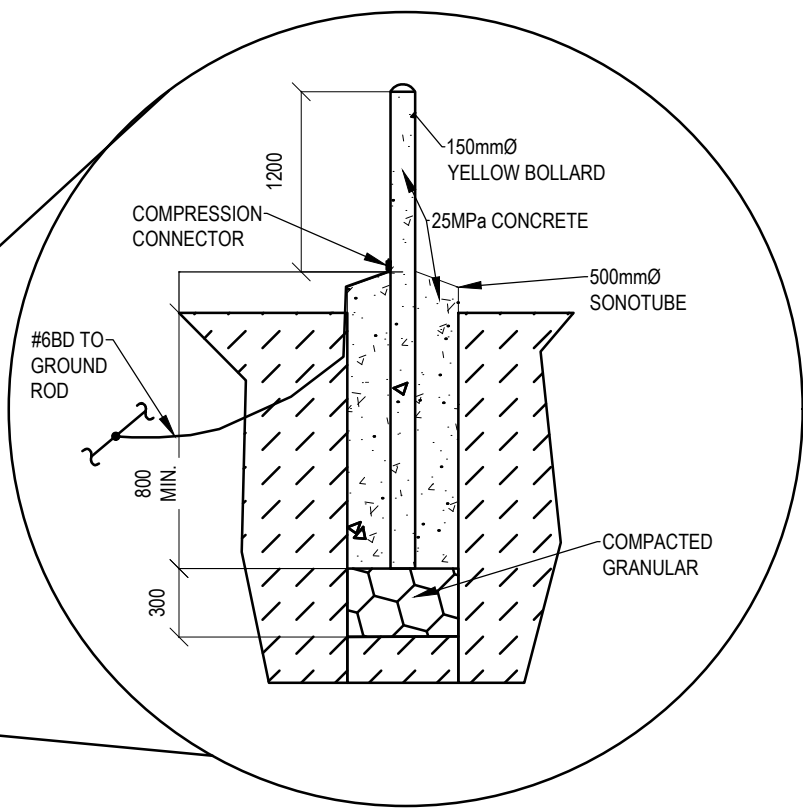


SWITCHGEAR CT/VT CONFIGURATIONS:

VOLTAGE	PHASE WIRE	# OF CTS	# OF VTS	APPLICATION TABLE (AT)	WIRING DIAGRAM	VT MAKE & MODEL (SEE AT)	SWITCH GEAR BUS $\leq 1200A$	SWITCH GEAR BUS $>1200A \leq 3200A$	SWITCH GEAR BUS $>3200A \leq 4000A$
120/208V	3PH, 4W	3	0	RM8-101-0500	RM8-201-0500		$\leq 1200A$ MAX LOAD	$\leq 1800A$ MAX LOAD	$> 1600A$ MAX LOAD
OTHER THAN 120/208V	3PH, 4W	3	3 OR 4	RM8-102-0500	RM8-202-0500 RM8-203-0500 (NGR)	RITZ DVE-8 OR GE FTMG	(3.06" ID, 600/5) RITZ DCCW OR GE JAK-OS	(5.51" ID, 800/5) RITZ DCEW	(5.51" ID, 1500/5) ARTECHE IRIH-10 OR RITZ DCEW
600V	3PH, 4W	2	2 OR 3	RM8-103-0500	RM8-204-0500				(5.51" ID, 4000/5) RITZ SCEW

- NOTES:
1. THIS DRAWING ILLUSTRATES A TYPICAL ARRANGEMENT AND IS TO BE PROVIDED TO THE SWITCHGEAR (SG) VENDOR PRIOR TO MANUFACTURING. SG OR SWITCHBOARD SHALL BE APPROVED TO CSA 22.2 NO. 31 OR 244, RESPECTIVELY.
 2. UMC FOR SUPPLY AUTHORITY USE ONLY. NO CUSTOMER OWNED EQUIPMENT PERMITTED. UMC SHALL BE SEGREGATED FROM OTHER COMPARTMENTS. FIELD MODIFICATIONS TO UMC SHALL ADHERE TO OEM REQUIREMENTS. UMC MUST BE FIELD MARKED TO INDICATE ARC FLASH AND SHOCK HAZARDS.
 3. CONDUIT BETWEEN UMC AND METER ENCLOSURE SHALL BE 1-1/4". HAVE NO ELBOWS WITH COVERS OR PULL BOXES AND BE NO MORE THAN 10M IN LENGTH. REFER RMG SECTION FOR METER INSTALLATION.
 4. METERING WIRE GOING THROUGH OTHER SG SECTIONS SHALL BE IN CONDUIT. REFER TO RM8-300-0500 FOR METER ENCLOSURE DRAWING.
 5. UMC SHALL HAVE A TERMINATION POINT FOR SYSTEM GROUND.
 6. TORQUE SPECIFICATIONS FOR ALL MOUNTING HARDWARE SHALL BE DISPLAYED IN THE UMC. ALL MOUNTING HARDWARE SHALL HAVE A SOCKET HEAD. HARDWARE USED TO MOUNT THE CTS AND VTS SHALL BE PROVIDED BY SG VENDOR.
 7. MAIN SERVICE BOX RATING $\leq 1200A$ FOR CT SPECIFICATIONS REFER TO RM11-306-0500/ RM11-306-0501.
 8. MAIN SERVICE BOX RATING $>1200A \leq 3200A$ FOR CT SPECIFICATIONS REFER TO RM11-307-0500/ RM11-307-0501.
 9. MAIN SERVICE BOX RATING $>3200A \leq 4000A$ FOR CT SPECIFICATIONS REFER TO RM11-307-0500.
 10. SG SPEC'D FOR CTS NOT LISTED IN THE TABLE MAY REQUIRE AN OEM KIT TO ACCEPT HYDRO ONE DONUT/ WINDOW CT MODELS. HYDRO ONE TO PROVIDE APPROVAL.
 11. CTS AND BUS LINKS TO BE INSTALLED AND TORQUED TO SPECIFICATION BY ELECTRICAL CONTRACTOR. CONNECTIONS THAT REQUIRE TORQUEING SHALL HAVE A PERMANENT MARKING COMPLETED BY ELECTRICAL CONTRACTOR.
 12. REMOVABLE BUS LINKS REQUIRED FOR CT MAINTENANCE.
 13. VT TYPE: FOR VT SPECIFICATIONS REFER TO RM11-310-0510/ RM11-310-0501. FOR MM DETAILS REFER TO APPLICATION TABLE (AT).
 14. VT PRIMARY POLARITY MARK TOWARD SOURCE.
 15. SG SHALL HAVE PROVISIONS FOR A 4TH VT TO ACCOMMODATE POWER QUALITY METER.

3 HYDRO ONE SWITCHGEAR METERING COMPARTMENT REQUIREMENTS
EL-D-501/ N.T.S.



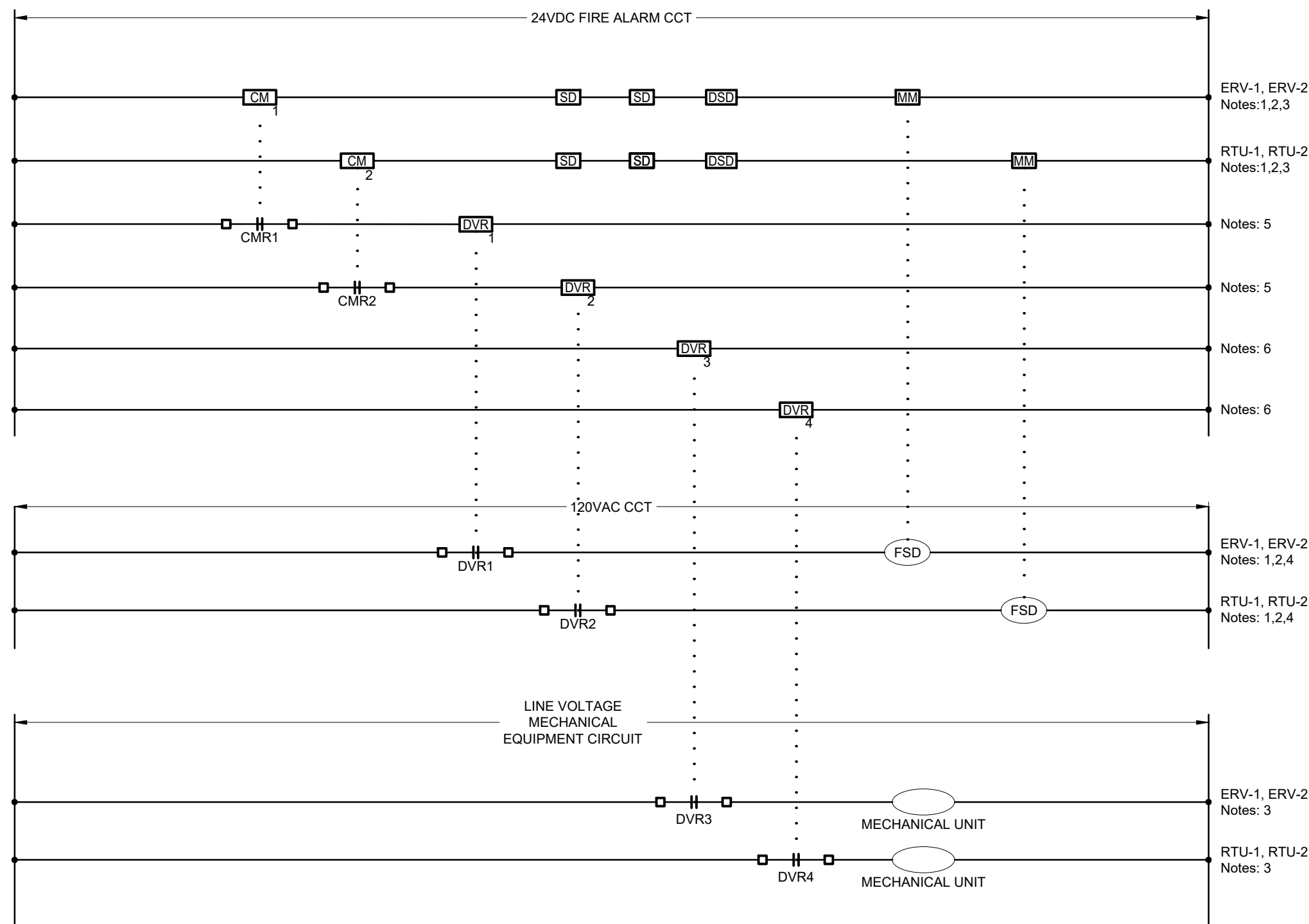
6 TYPICAL PIPING THROUGH ROOF DETAIL
EL-D-501/ SCALE: N.T.S.

GENERAL NOTES:

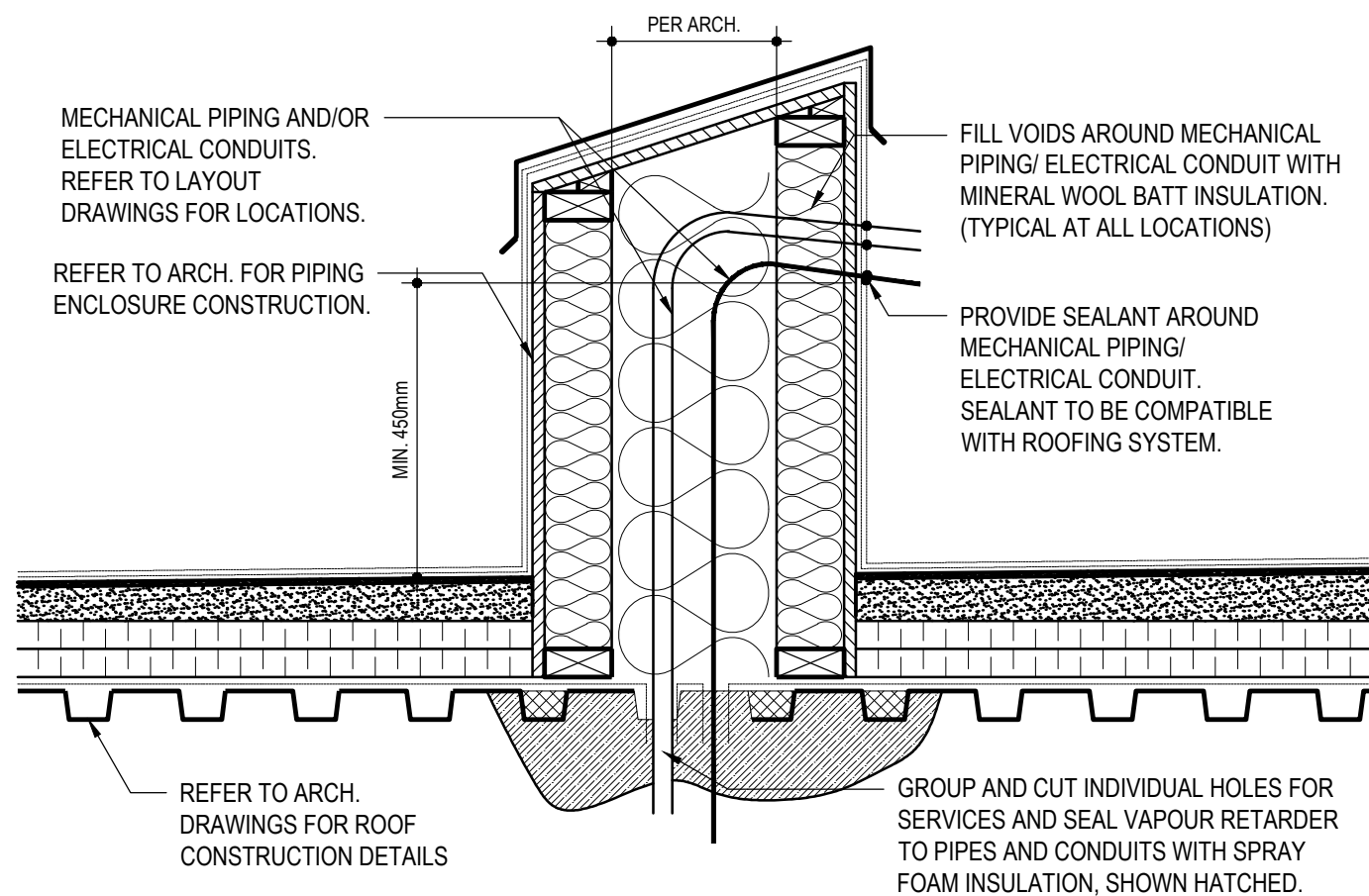
- DEVICES SHOWN DO NOT IDENTIFY TOTAL QUANTITIES REQUIRED AND ARE SHOWN FOR GENERAL CONNECTION AND CONTROL INTENT. DEVICES AND LOCATIONS TO BE COORDINATED WITH DRAWINGS, SPECIFICATIONS, OBC, CANULC 5524 AND MECHANICAL CONTRACTOR.
- COMBINATION FIRE/SMOKE DAMPERS (FSD) - PROVIDE ALL CONTROL SIGNALS, WIRING, CONDUIT, RELAY, FIRE ALARM DEVICES AS REQUIRED FOR A COMPLETE INSTALLATION AND INTERCONNECT WITH COMBINATION FIRE/SMOKE DAMPERS. PROVIDE CIRCUITS AND CONNECT TO EACH DAMPER. CONFIRM FINAL LOCATIONS WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR ON SITE.
- ONCE FIRE ALARM PANEL HAS BEEN CLEARED, FIRE ALARM CONTROL SIGNAL TO AUTOMATICALLY RESTORE POWER TO DAMPER CIRCUIT, OPENING THE COMBINATION FIRE/SMOKE DAMPERS, AND RESTORE LINE VOLTAGE MECHANICAL EQUIPMENT CIRCUIT.

NOTES:

1. COMBINATION FIRE/SMOKE DAMPERS IN HVAC SYSTEM TO CLOSE WHEN DE-ENERGIZED ON SMOKE DETECTOR, OR DUCT TYPE SMOKE DETECTOR ACTIVATION. ANY DETECTOR WITHIN AN HVAC SYSTEM SHALL SHUTDOWN HVAC EQUIPMENT WITHIN SYSTEM INCLUDING BUT NOT LIMITED TO AIR HANDLING UNITS, ROOF TOP UNITS, MAKE UP AIR UNITS, FAN COILS, ENERGY RECOVERY VENTILATORS, ETC.
2. COMBINATION FIRE/SMOKE DAMPER TO CLOSE ON LOSS OF POWER.
3. POWER TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO AIR HANDLING UNITS, ROOF TOP UNITS, MAKE UP AIR UNITS, FAN COILS, ENERGY RECOVERY VENTILATORS, ETC. TO DE-ENERGIZE ON SMOKE DETECTOR, OR DUCT TYPE SMOKE DETECTOR ACTIVATION.
4. MONITORING MODULES TO MONITOR END SWITCH FOR CLOSED POSITION STATUS OF COMBINATION FIRE/SMOKE DAMPER. WHEN DAMPER IS DETECTED IN CLOSED POSITION, FIRE ALARM SYSTEM SHALL SHUTDOWN HVAC EQUIPMENT WITHIN HVAC SYSTEM.
5. DUAL VOLTAGE RELAYS POWERED AND CONTROLLED BY FIRE ALARM SYSTEM WITH 120V RATED CONTACTS SUITABLE FOR SWITCHING CONNECTED LOAD.
6. DUAL VOLTAGE RELAYS POWERED AND CONTROLLED BY FIRE ALARM SYSTEM WITH CONTACTS RATED TO SUITE LINE VOLTAGE SUPPLY FOR SWITCHING CONNECTED LOAD.



4 FIRE ALARM & COMBINATION FIRE/SMOKE DAMPER WIRING DIAGRAM
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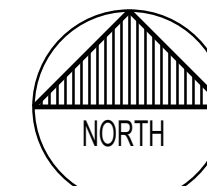
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PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN

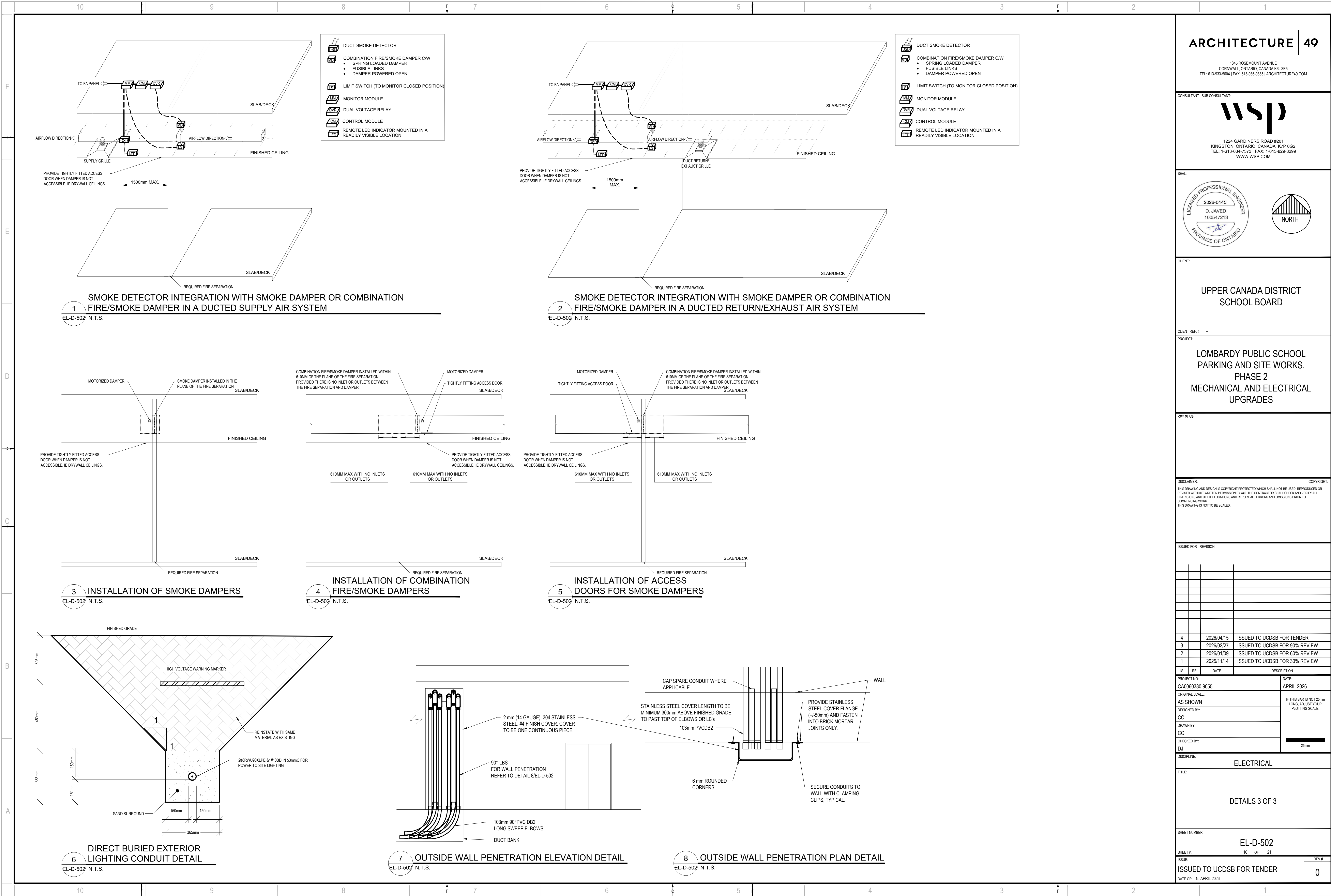
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TITLE: DETAILS 2 OF 3	SHEET NUMBER: EL-D-501
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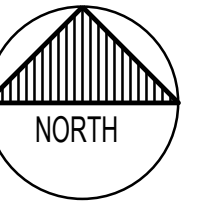


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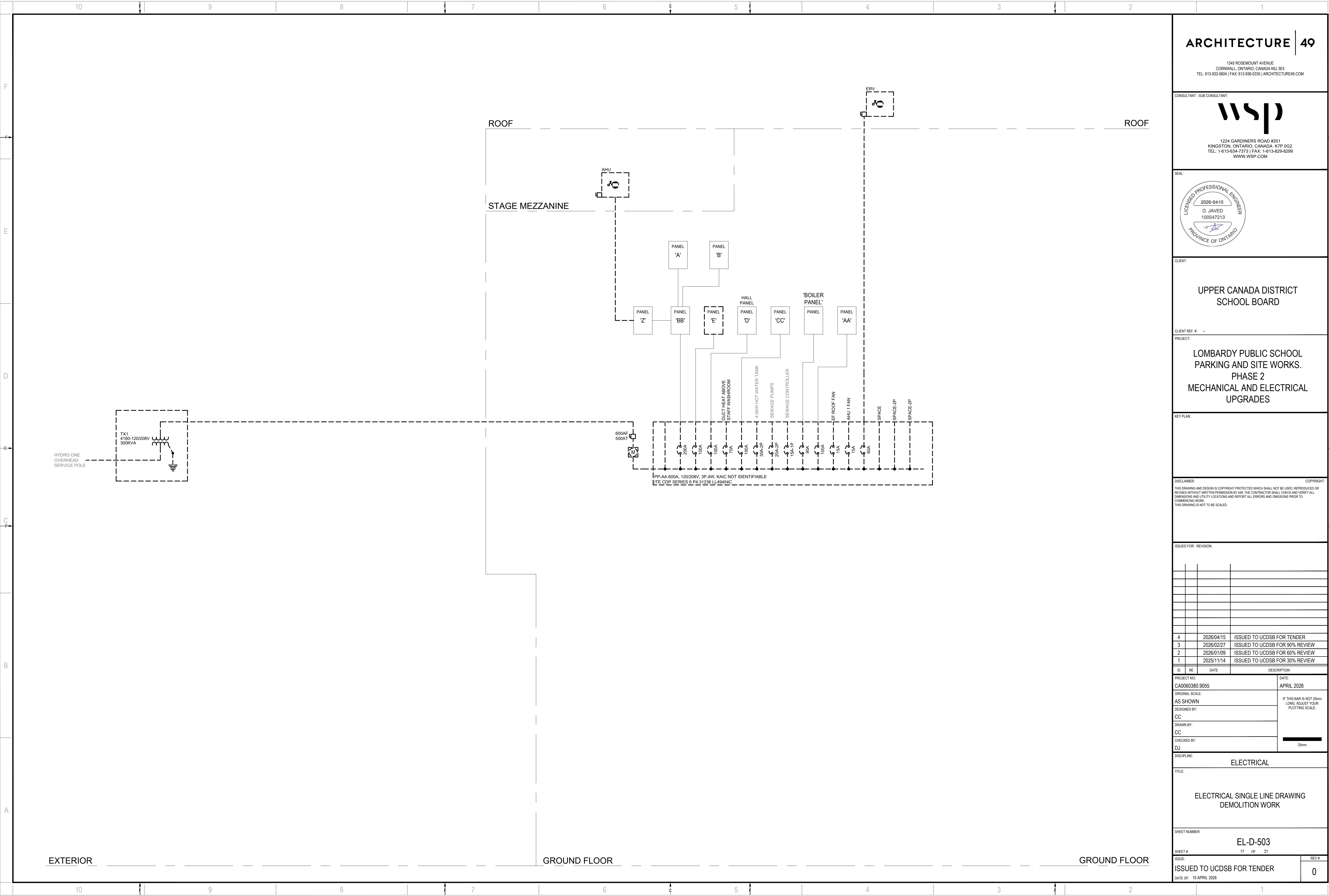
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ELECTRICAL SINGLE LINE DRAWING
DEMOLITION WORK

SHEET NUMBER:

EL-D-503

SHEET # 17 OF 21

ISSUE: ISSUED TO UCDSB FOR TENDER

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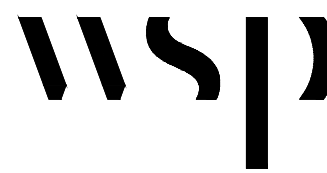
SPECIFIC NOTES:

1. PROVIDE NEW WIRING AND CONDUIT AND TIE INTO EXISTING WIRING AND CONDUIT RETAINED IN DEMOLITION. PROVIDE NEW PULL BOX C/W TERMINAL BLOCKS FOR TIE-INS.

ARCHITECTURE | 49

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2		2026/01/09	ISSUED TO UCDSB FOR 60% REVIEW
1		2025/11/14	ISSUED TO UCDSB FOR 30% REVIEW

PROJECT NO:	CA0060380.9055	DATE:	APRIL 2026
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	CC		
DRAWN BY:	CC		
CHECKED BY:	DJ		

DISCIPLINE: ELECTRICAL

TITLE:

ELECTRICAL SINGLE LINE DRAWING NEW WORK

SHEET NUMBER:

EL-D-504

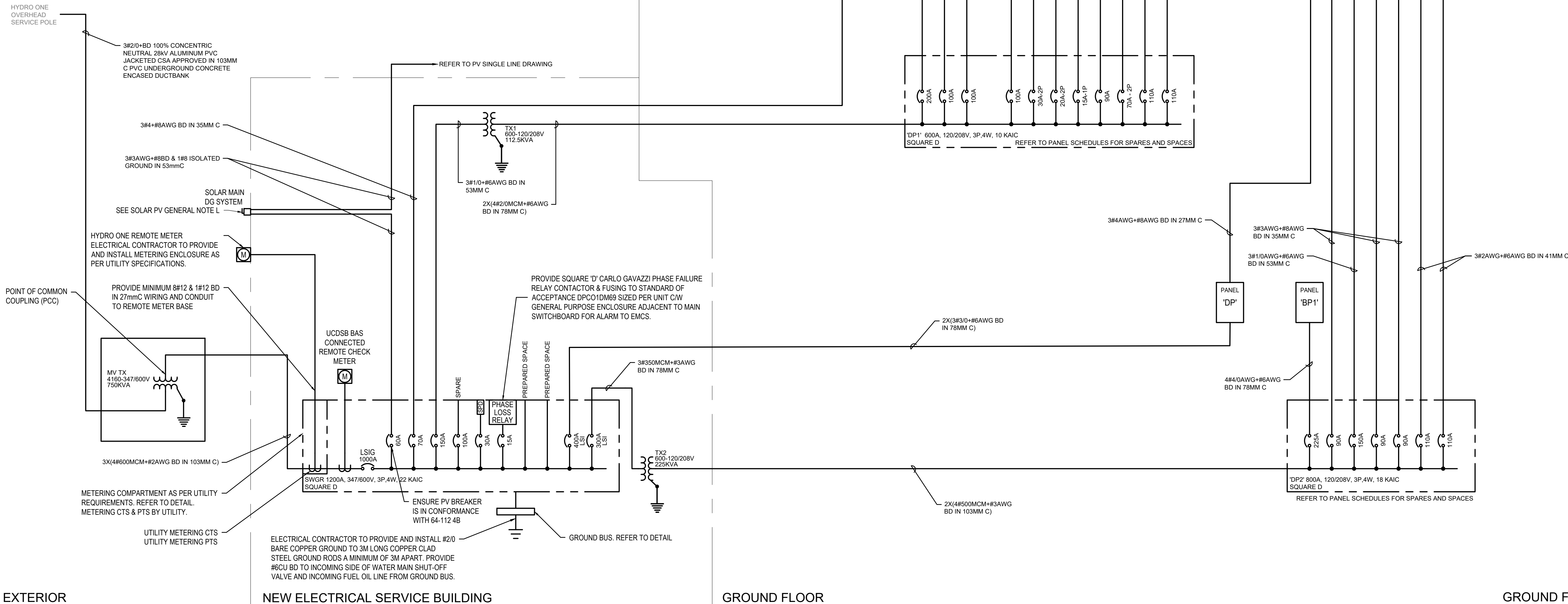
SHEET # 18 OF 21

ISSUE: ISSUED TO UCDSB FOR TENDER

DATE OF: 15 APRIL 2026

REV #

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- 3x GROUND MOUNTED INVERTERS TO BE FRONIUS INTERNATIONAL GmbH SYMO 12.5-3 (480V), IN WEATHERPROOF ENCLOSURE COMPLETE WITH THE FOLLOWING SPECIFICATIONS:
 - 1.1. MAX AC POWER OUTPUT RATING = 12.456KVA
 - 1.2. MAX CONTINUOUS OUTPUT CURRENT = 15.9A
 - 1.3. MAX INPUT POWER FROM PV STRINGS = 18.75kW
 - 1.4. MAX INPUT CURRENT FROM PV STRINGS = 62.2A
 - 1.5. MAX INPUT VOLTAGE FROM PV STRINGS = 1000V
 - 1.6. MIN INPUT VOLTAGE FROM PV STRINGS = 200V
 - 1.7. EXTERNAL DC ISOLATION SWITCH FOR SAFE DC FUSES REPLACEMENT.
 - 1.8. UNDER VOLTAGE TRIP
 - 1.9. OVER VOLTAGE TRIP
 - 1.10. UNDER-FREQUENCY TRIP
 - 1.11. OVER-FREQUENCY TRIP
 - 1.12. OVER-CURRENT PROTECTION
 - 1.13. ISLANDING DETECTION
- 75 x PV PANELS TO BE LONGI HI-MO LR5-66HPH 505M WITH THE FOLLOWING SPECIFICATIONS:
 - 2.1. STC RATING = 505W
 - 2.2. V_{mp} = 38.53
 - 2.3. I_{mp} = 13.11A
 - 2.4. V_{oc} = 45.70V
 - 2.5. I_{sc} = 13.97A
- APPROXIMATE DISTANCE FROM FURTHEST INVERTER TO COMBINER PANEL IS 20m.
- PROVIDE PERMANENT MARKINGS AT INVERTERS, DISCONNECTS & COMBINER PANEL STATING RATED OPERATING CURRENT AND VOLTAGE. THE MAXIMUM SOURCE CIRCUIT VOLTAGE CALCULATED IN ACCORDANCE WITH RULE 64-200 AND THE RATED SHORT CIRCUIT CURRENT.
- PROVIDE MORE THAN TWO POWER SOURCES SYSTEM SIGN AT PV DG DISCONNECT, AT THE INVERTERS AND AT THE MAIN SERVICE DISCONNECT.
- CONTRACTOR TO ENSURE THAT THE PV (DC) CABLES TO INVERTER TO BE LESS THAN 1m FROM PHOTOVOLTAIC ARRAY AS PER RULE 64-218 EXEMPT RAPID SHUT DOWN.
- CONTRACTOR TO PROVIDE COLOR CODING FOR DC POWER SOURCE WIRING. RED FOR POSITIVE AND BLACK FOR NEGATIVE AS PER OESC.
- CONTRACTOR TO ENSURE PHOTOVOLTAIC SOURCE CIRCUIT INSULATED CONDUCTORS AND CABLES BE PROVIDED WITH MECHANICAL PROTECTION IN THE FORM OF ENCLOSED RACEWAY OR OTHER ACCEPTABLE MATERIAL TO PROTECT AGAINST DAMAGE FROM RODENTS AS PER OESC.
- THE CONNECTION TO A PHOTOVOLTAIC MODULE SHALL BE ARRANGED SO THAT REMOVAL OF A SINGLE PHOTOVOLTAIC MODULE FROM A PHOTOVOLTAIC SOURCE CIRCUIT DOES NOT INTERRUPT BONDING CONTINUITY.

PV STRING CALCULATION

OF PV PANELS IN STRING: 1 TO 5 = 15
EACH STRING MAX OUTPUT VOLTAGE FROM PV PANELS: 1 TO 5 = 683.25V
EACH STRING OUTPUT AMPERAGE FROM PV PANELS: 1 TO 5 = 13.90A
EACH STRING MAX POWER OUTPUT FROM PV PANELS: 1 TO 5 = 7.50kW

INVERTER CALCULATION

STRINGS FOR EACH INVERTER: 1 = STRINGS 1 & 2 2 = STRINGS 3 & 4 3 = STRING 5
EACH INVERTER MAX INPUT VOLTAGE FROM STRING: 1 = 685.5V 2 = 685.5V 3 = 411.3V
EACH INVERTER INPUT AMPERAGE FROM STRING: 1 = 27.94A 2 = 27.94A 3 = 27.94A
EACH INVERTER MAX POWER INPUT FROM STRING: 1 = 14.65kW 2 = 14.65kW 3 = 8.59kW

GENERAL NOTES:

- PV CONNECTION SHOWN FOR REFERENCE. EXACT PANEL CONFIGURATION (SERIES/PARALLEL) TO BE DETERMINED ON SITE AND AS PER INVERTER INPUT VOLTAGE. PRELIMINARY SOLAR DESIGN. FINAL ENGINEERED SOLUTION TO BE PROVIDED BY PHOTOVOLTAIC CONTRACTOR.
- SOLAR PHOTOVOLTAIC SYSTEM TO BE MAX. 38kW. REFER TO SPECIFICATION 42.01.01 SOLAR PHOTOVOLTAICS FOR DETAILED REQUIREMENTS.
- INVERTER TO BE PROVIDED WITH EXTERNAL DC ISOLATION SWITCH FOR SAFE DC FUSES REPLACEMENT.
- APPROXIMATE DISTANCE FROM SWGR TO DG PV COMBINER PANEL IS 20M.
- LADDER GIVING ACCESS TO THE ROOF SHOULD BE LOCKABLE AND PROVIDED WITH WARNING AND AUTHORIZED PERSONNEL ONLY SIGNS.
- ELECTRICAL CONTRACTOR TO PROVIDE PERMANENT MARKINGS AT INVERTERS, DISCONNECTS & COMBINER PANEL STATING RATED OPERATING CURRENT AND VOLTAGE. THE MAXIMUM SOURCE CIRCUIT VOLTAGE CALCULATED IN ACCORDANCE WITH RULE 64-200 AND THE RATED SHORT CIRCUIT CURRENT.
- PROVIDE MORE THAN TWO POWER SOURCES SYSTEM SIGN AT PV DG DISCONNECT, AT THE INVERTERS AND AT THE MAIN SERVICE DISCONNECT.
- ELECTRICAL CONTRACTOR TO ENSURE THAT THE PV (DC) OUTPUT CABLES TO INVERTER TO BE LESS THAN 1m FROM PHOTOVOLTAIC ARRAY AS PER RULE 64-218 EXEMPT RAPID SHUT DOWN.
- ELECTRICAL CONTRACTOR TO PROVIDE COLOR CODING FOR DC POWER SOURCE WIRING. RED FOR POSITIVE AND BLACK FOR NEGATIVE AS PER OESC.
- ELECTRICAL CONTRACTOR TO ENSURE PHOTOVOLTAIC SOURCE CIRCUIT INSULATED CONDUCTORS AND CABLES BE PROVIDED WITH MECHANICAL PROTECTION IN THE FORM OF ENCLOSED RACEWAY OR OTHER ACCEPTABLE MATERIAL TO PROTECT AGAINST DAMAGE FROM RODENTS AS PER OESC.
- THE CONNECTION TO A PHOTOVOLTAIC MODULE SHALL BE ARRANGED SO THAT REMOVAL OF A SINGLE PHOTOVOLTAIC MODULE FROM A PHOTOVOLTAIC SOURCE CIRCUIT DOES NOT INTERRUPT BONDING CONTINUITY.
- DG PV COMBINER PANEL TO BE EQUIPPED WITH MAIN DISCONNECT SO THAT WHEN IN ON POSITION CABINET CAN NOT BE OPENED.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DISCONNECT 600V, 3P, 100AF/60AT (FUSES TO BE FAST ACTING), NEMA 3R, LOCATED ON EXTERIOR WALL, ACCESSIBLE AT GROUND LEVEL, PAD LOCKABLE (PROVISION TO BE LOCKED IN OPEN POSITION), CWV VIEWING WINDOW (VISIBLE BREAK TYPE) AND GANG OPERATED.

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CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. # --

PROJECT:


LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES

KEY PLAN

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DRAWN BY: CC			
CHECKED BY: D.J.			

DISCIPLINE: ELECTRICAL

TITLE:

ELECTRICAL PV SINGLE LINE DRAWINGS NEW
WORK

SHEET NUMBER:

EL-D-505

SHEET # 19 OF 21

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