

PROJECT: LOMBARDY PUBLIC SCHOOL PARKING, SEPTIC
AND SITE WORKS - PHASE 2 MECHANICAL AND
ELECTRICAL UPGRADES

ADDENDUM No.: 02

**OWNER
REPRESENTATIVE:** UCDSB – Huy Dinh

PROJECT No.: 209-00237-00

DATE: 2026-04-28

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents. Include in bid amount for the following items of addition, deletion or clarification. Indicate in the space provided on the bid form that you have received and included for the requirements of this addendum.

Reference: Issued for Tender Architectural, Civil, Structural, Mechanical and Electrical drawings dated 2026-04-15 (Not Attached)

List of Changes in the Architectural Drawings:

AR-L-100 SITE PLAN:

1. Addition of a bollard detail.
2. Removal of existing well-protection barriers.
3. Addition of a swing gate.
4. Correction on the extent of existing fence to remain.
5. Note for asphalt removal
6. Note for basketball post and triple shot removal and provision of new.
7. Added asphalt portion at new swinging gates.
8. Removal of redundant notes on the N.I.C. area

AR-L-115 PROPOSED PHASING PLAN

1. Inclusion of three exterior doors for Phase 1
2. Legend modifications.

AR-L-120 PYLON SIGN AND DETAILS

1. Note added

AR-D-501 ROOF PLAN AND DETAILS

1. Detail name and number added.
2. Detail dimensions added
3. Details 5 & 6 added
4. Modifications and added notes on the roof plan
5. Note added for provision of "crickets"

OTHER DISCIPLINES (Attached):

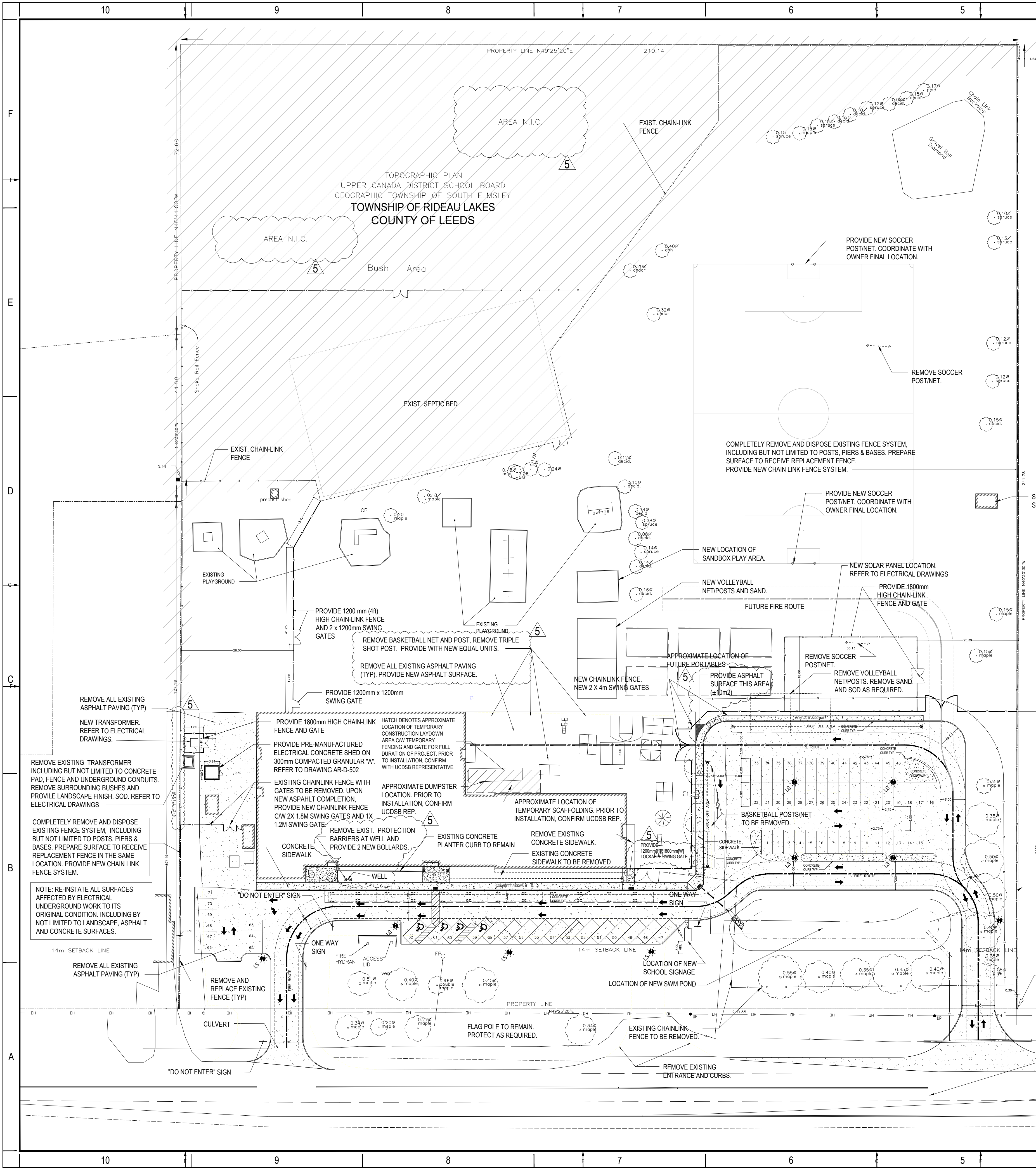
- Civil Addendum 01: Drawings CO.1, C1.1, C1.2, C1.3, C1.4 & C1.5 / Specification Section 31 23 33.01
- Structural Addendum 01: Drawings ST-L-101, ST-L-102, ST-L-105, ST-L-106, ST-L-107, ST-L- 200, ST-L-201, ST-L-202, ST-L-203, ST-L-204 & ST-L- 400
- Mechanical Addendum M1: Drawings ME-0-001, ME-L-100, ME-L-101, ME-L-102, ME-L-103, ME-L-104, ME-L-105 & ME-L-100
- Electrical Addendum E1: Drawings EL-L-101, EL-L-104, EL-L-105 & EL-L-107,

Issued by the Consultant

Date: April 28, 2026



Ricardo Lahaye, B.Arch.
Senior Technician, Architecture

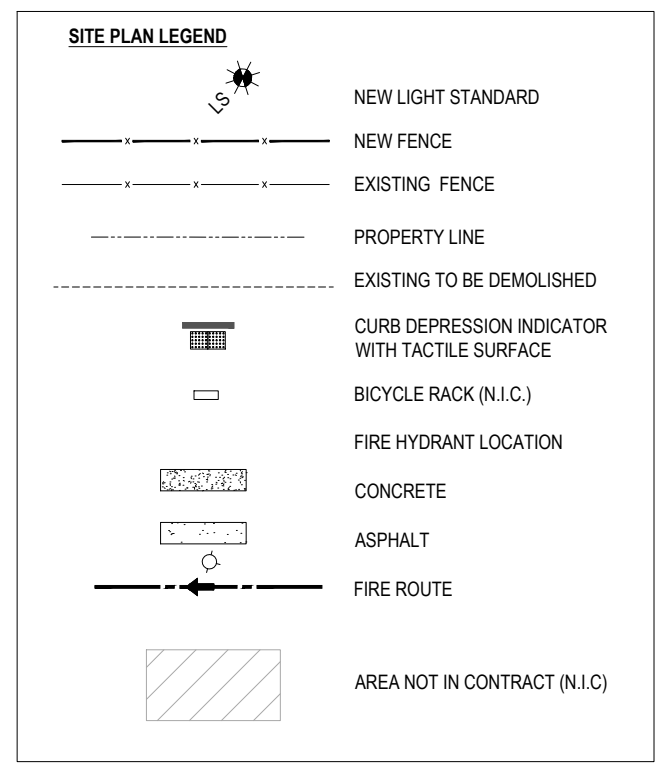


SOCCER GOALS AND NETTING

PROVIDE TWO (2) SOCCER GOALS COMPLETE WITH NETTING, MODEL P56-24 REGULATION SOCCER GOAL BY GYMNASIUM AND HEALTH LTD. OR APPROVED EQUIVALENT. GOAL SIZE IS 7315mm (24') X 2438mm (8'). 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.

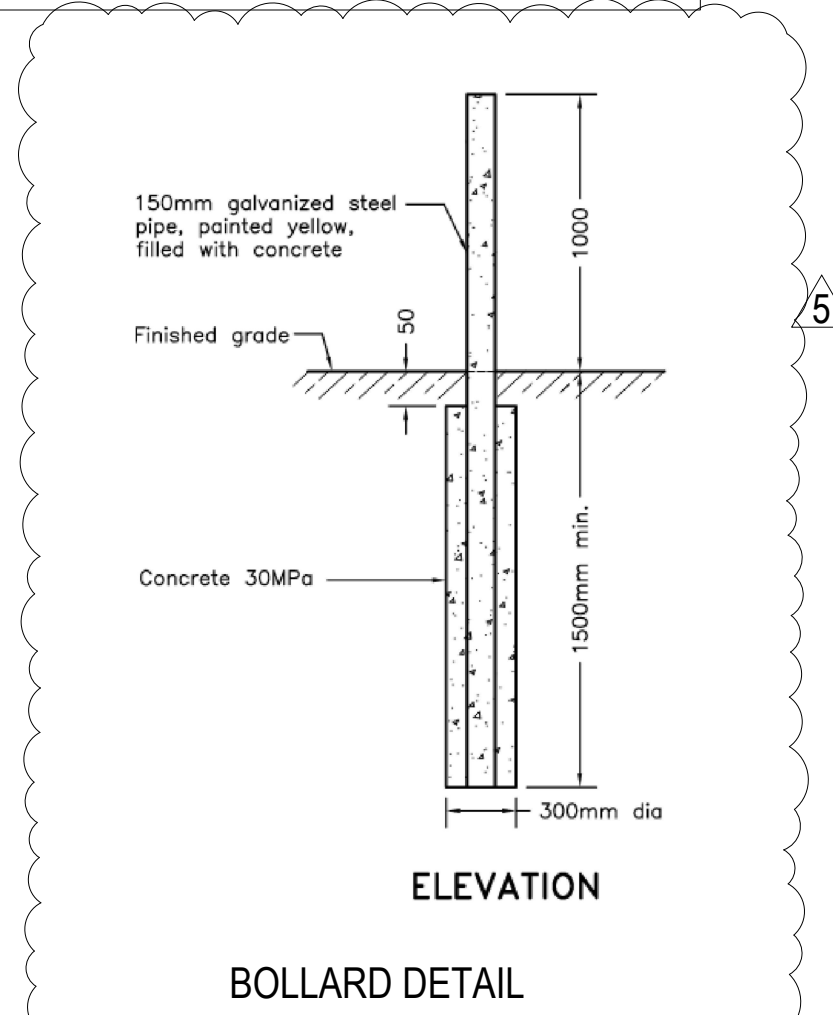
SITE AND PARKING INFORMATION		
TYPE OF BUILDING USE	MINIMUM PARKING REQUIREMENT	PARKING INFORMATION
ELEMENTARY SCHOOL (GROUP A-2 OCCUPANCY)	ONE AND A HALF (1.5) PARKING SPACES FOR EACH TEACHING CLASSROOM OR EQUIVALENT INCLUDING SIX (6) PORTABLE CLASSROOMS; PLUS ADDITIONAL SPACE FOR ANY PLACE OF ASSEMBLY 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 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 = 4,650 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 1/2" 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 CONVEY 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" DIAMETER, NO PAINTING.
 - DOUBLE SELF-EDGE, 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.



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

ARCHITECTURE 49

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

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PROJECT NUMBER: C40060380.0005

SEAL:

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OF
ARCHITECTS
2026-04-27
DANIEL J. JACQUES
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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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
5	2026/04/27	ISSUED ADDENDUM 02
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

PROJECT NO:

209-00279-00

DATE:

15 APRIL 2026

ORIGINAL SCALE:

1:500

DESIGNED BY:

RL

DRAWN BY:

RL

CHECKED BY:

DM

DISCIPLINE:

ARCHITECTURAL

TITLE:

SITE PLAN

SHEET NUMBER:

AR-L-100

1 OF 1

ISSUE:

ISSUED FOR ADDENDUM 01

DATE OF: 27 APRIL 2026

REV #

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LEGEND

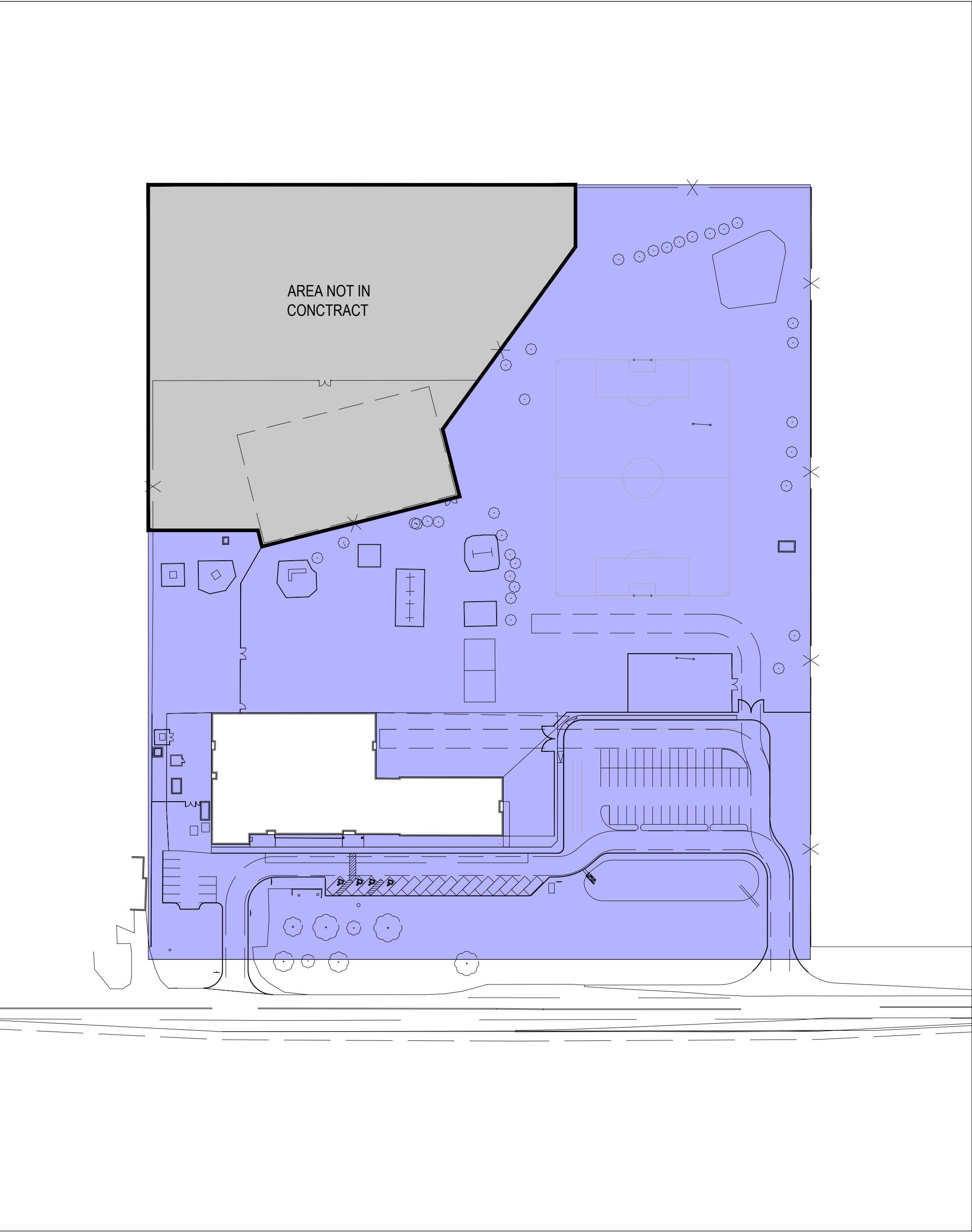
PHASE 1 CONSTRUCTION AREAS (2026):
EXTERIOR DOOR REPLACEMENT, ROOFING,
CEILING TILES, STRUCTURAL
REINFORCEMENT, HVAC REPLACEMENT,
CIVIL SITE WORK & ELECTRICAL UPGRADES.

PHASE 2 CONSTRUCTION AREAS (2027):
CEILING TILES, STRUCTURAL
REINFORCEMENT, HVAC REPLACEMENT,
CIVIL SITE WORK & ELECTRICAL UPGRADES

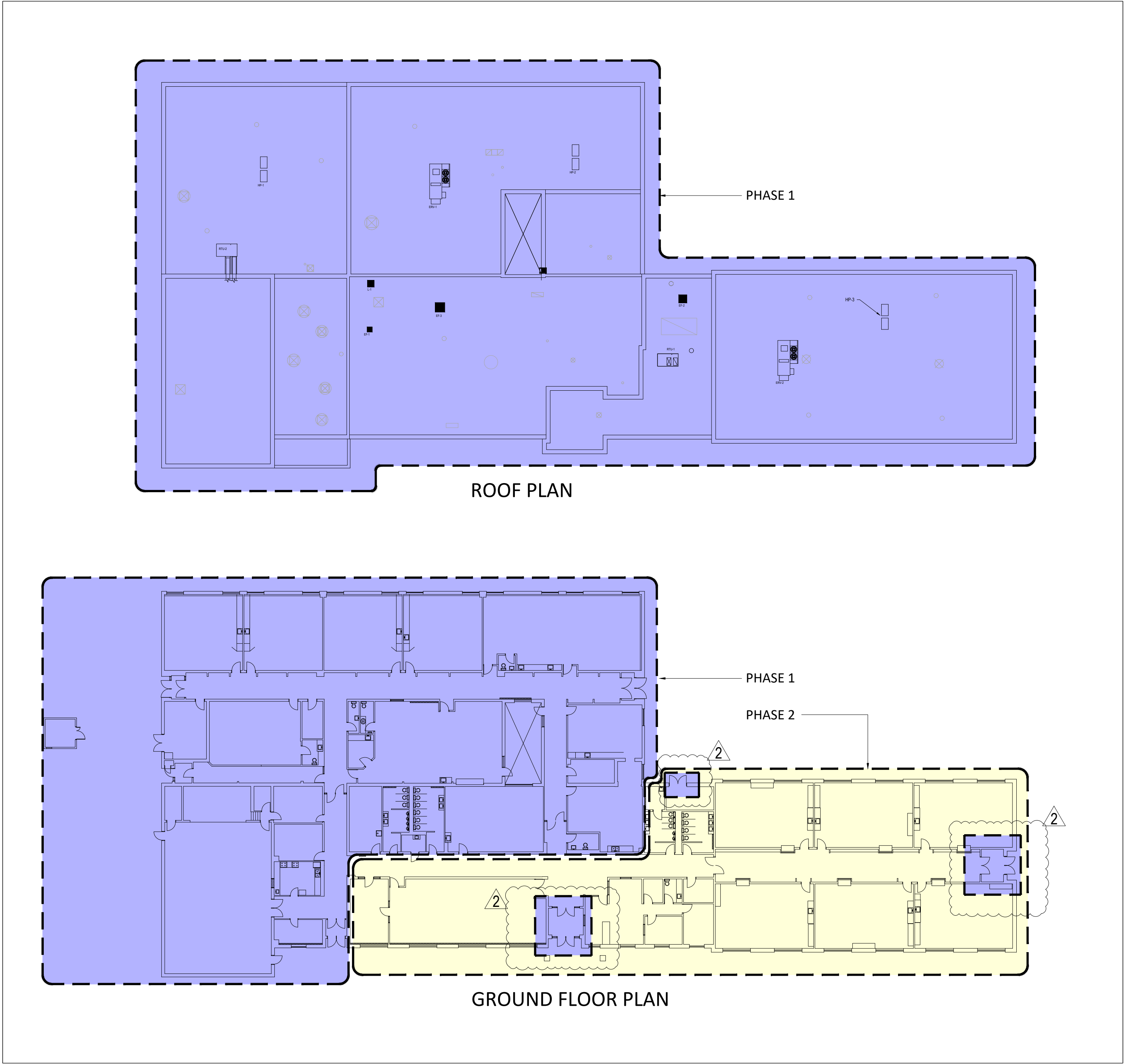
PHASING NOTE

THIS PROPOSED PHASING PLAN IS INTENDED AS GENERAL GUIDANCE FOR THE CONTRACTOR REGARDING SCHOOL OPERATING SCHEDULES AND CONSTRUCTION HOURS. WORK THAT CONFLICTS WITH THE SCHOOL SCHEDULE SHALL BE COMPLETED DURING SUMMER VACATION, AFTER-SCHOOL HOURS, AND WEEKENDS. THE PHASING PLAN INDICATES CONSTRUCTION ACTIVITIES THAT MAY OCCUR DURING CLASS PERIODS AND IS NOT INTENDED TO REPRESENT A FINAL CONSTRUCTION SCHEDULE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING A DETAILED CONSTRUCTION PHASING AND SCHEDULE PRIOR TO COMMENCING WORK.

3 PHASING LEGEND AND GENERAL NOTES
AR-L-100 SCALE: N.T.S.



1 SITE PLAN
AR-L-100 SCALE: N.T.S.



2 FLOOR PLANS
AR-L-100 SCALE: N.T.S.

ARCHITECTURE 49

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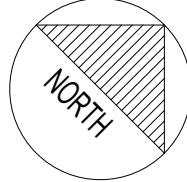
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PROJECT NUMBER: C4000380.0005

SEAL:



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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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2		2026/04/27	ISSUED ADDENDUM 02
1		2026/04/15	ISSUED FOR TENDER

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2		2026/04/27	ISSUED ADDENDUM 02
1		2026/04/15	ISSUED FOR TENDER

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

ORIGINAL SCALE: AS NOTED IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

DESIGNED BY: RL

DRAWN BY: RL

CHECKED BY: DM

DISCIPLINE: ARCHITECTURAL

TITLE: PROPOSED PHASING PLAN

SHEET NUMBER: AR-L-115

SHEET # 1 OF 1

ISSUE: ISSUED FOR ADDENDUM 02

DATE OF: 27 APRIL 2026

REV # -



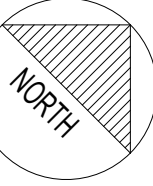
CONSULTANT - SUB CONSULTANT:



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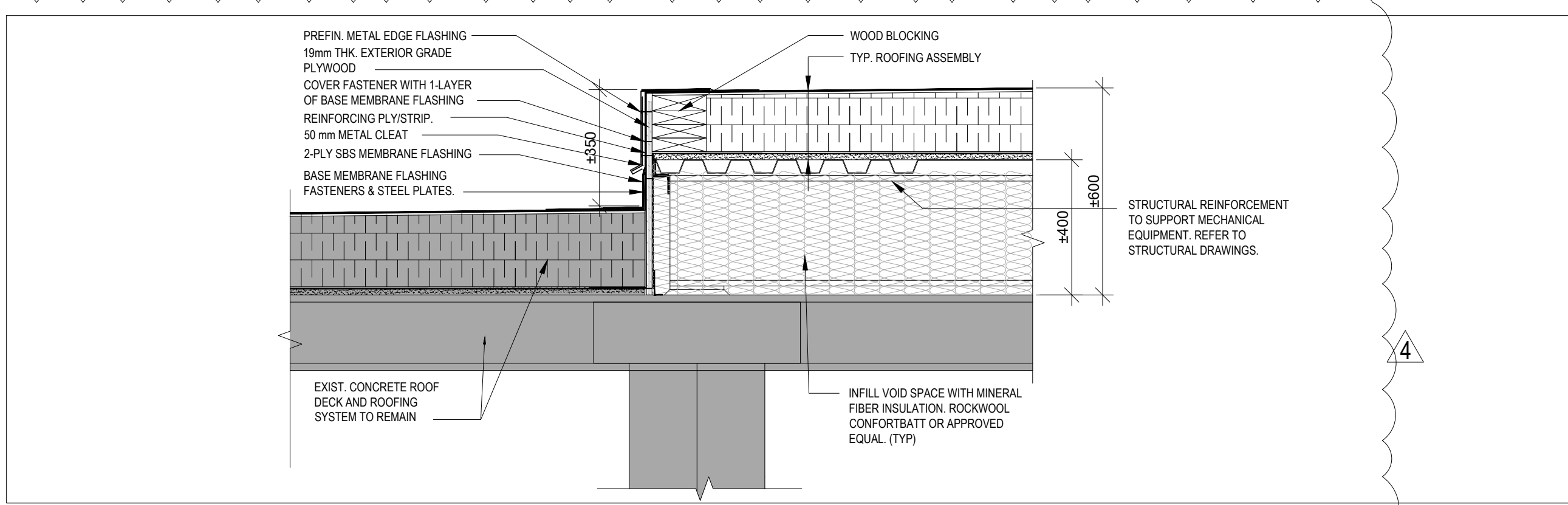
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IS	RE	DATE	DESCRIPTION
4		2026/04/27	ISSUED FOR ADDENDUM 02
3		2026/04/15	ISSUED FOR TENDER
2		2026/02/27	ISSUED FOR 90% REVIEW
1		2026/01/09	ISSUED FOR 60% REVIEW

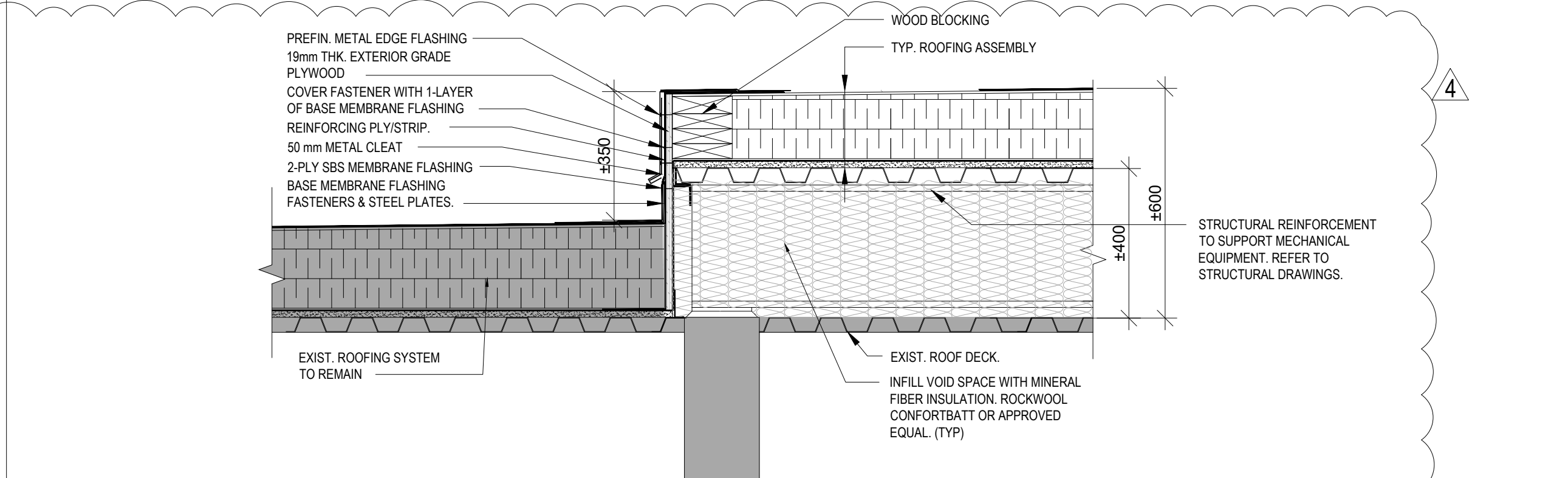
PROJECT NO.	DATE:
209-00279-00	15 APRIL 2026
ORIGINAL SCALE:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
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DISCIPLINE:	ARCHITECTURAL
TITLE:	ROOF PLAN AND DETAILS

SHEET NUMBER:	AR-D-501
SHEET #	- OF -
ISSUE:	ISSUED FOR ADDENDUM 02
DATE OF:	27 APRIL 2026



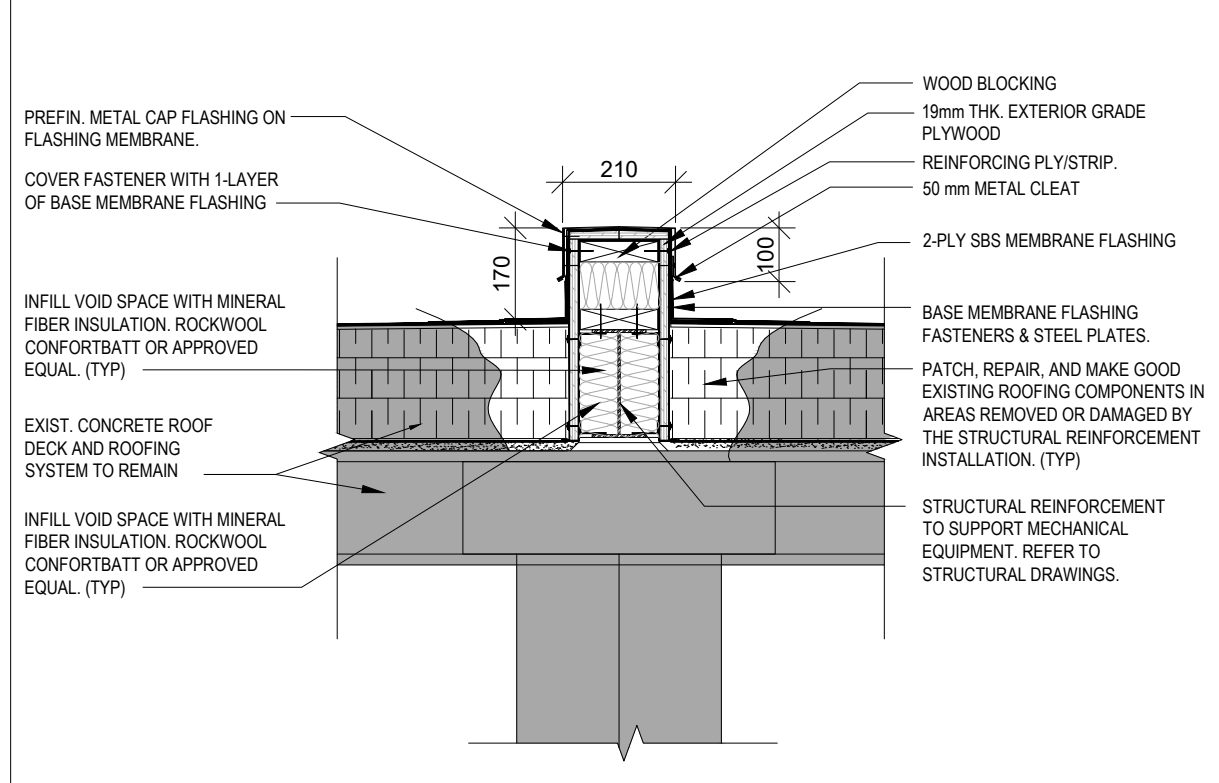
SECTION DETAIL AT ELEVATED ROOF (TYP)

AR-D-501 SCALE: 1:10



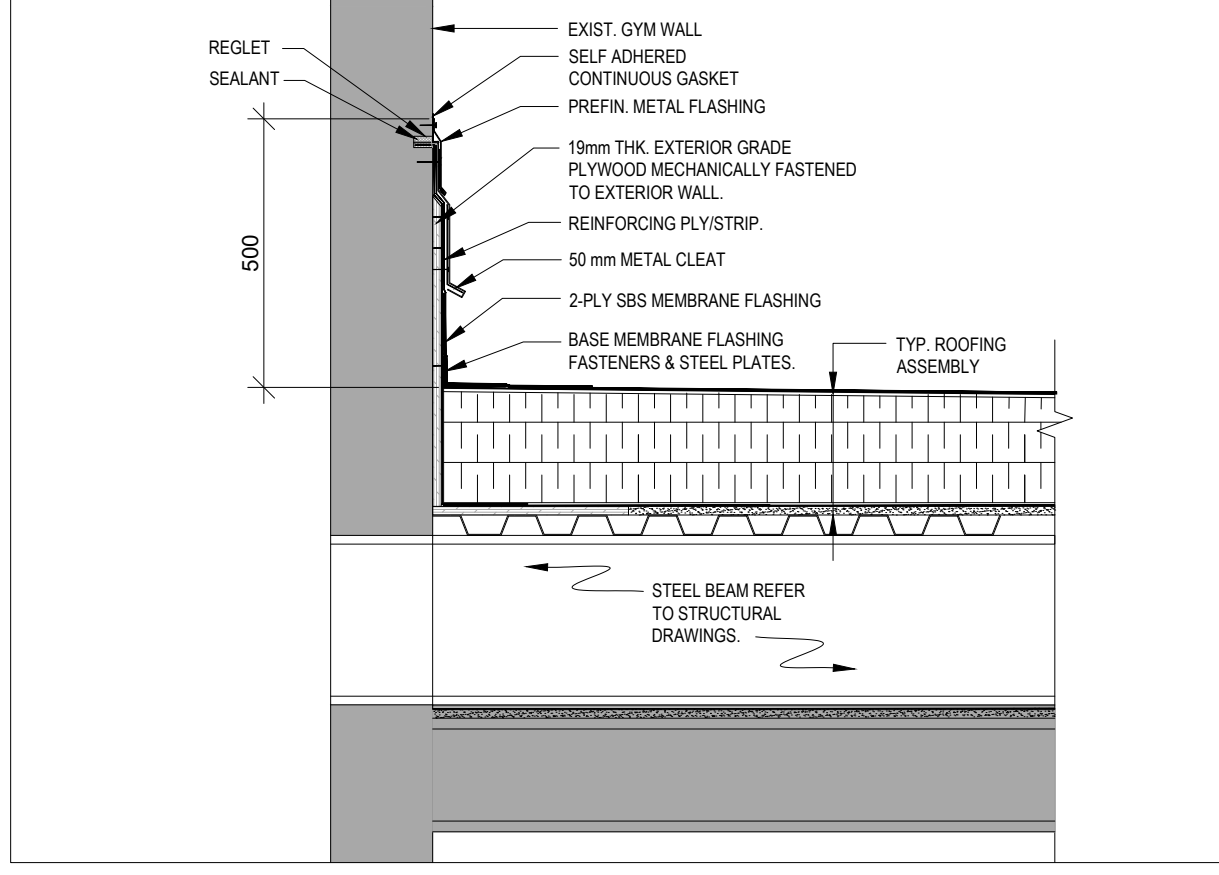
SECTION DETAIL AT ELEVATED ROOF (TYP)

AR-D-501 SCALE: 1:10



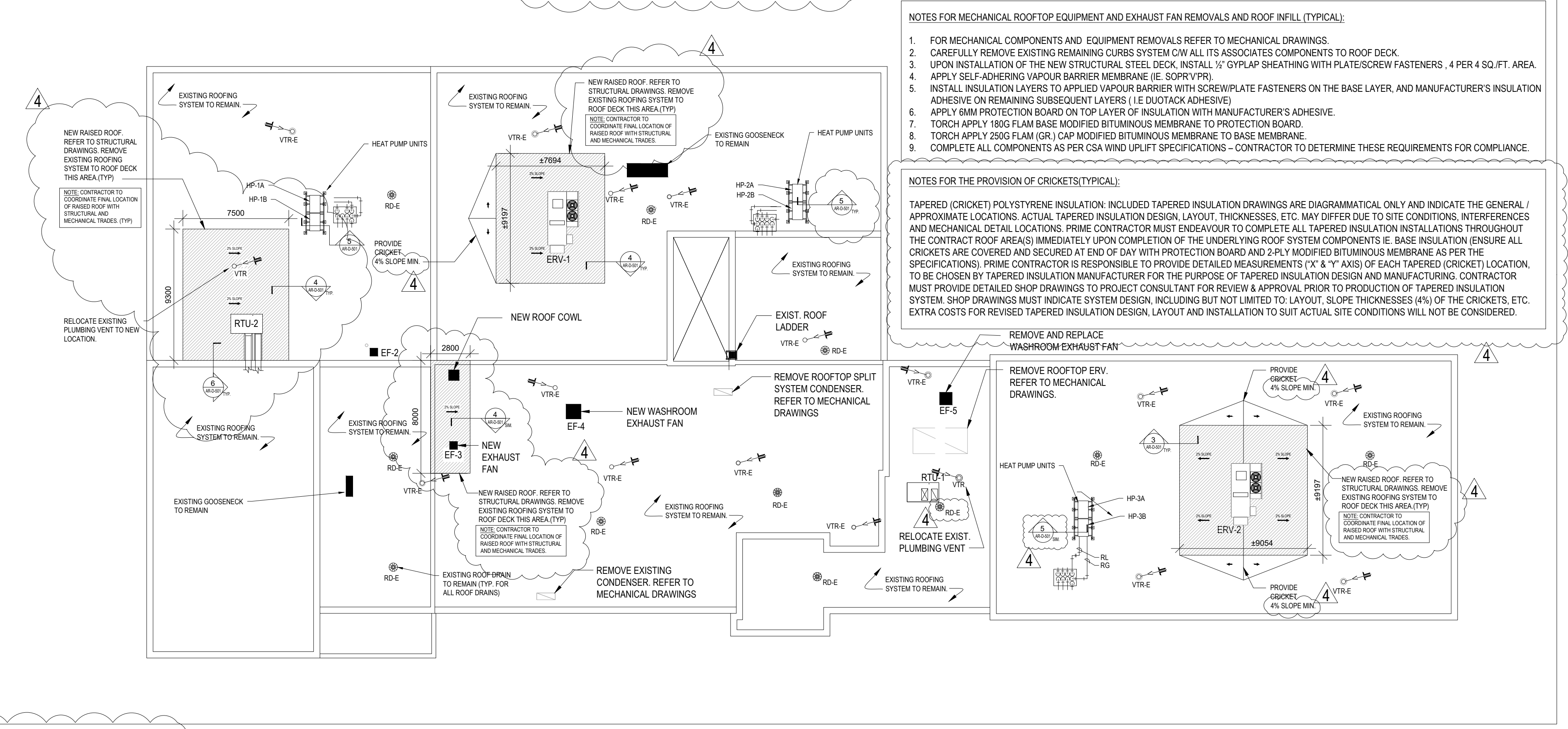
SECTION DETAIL AT CURB (TYP)

AR-D-501 SCALE: 1:10



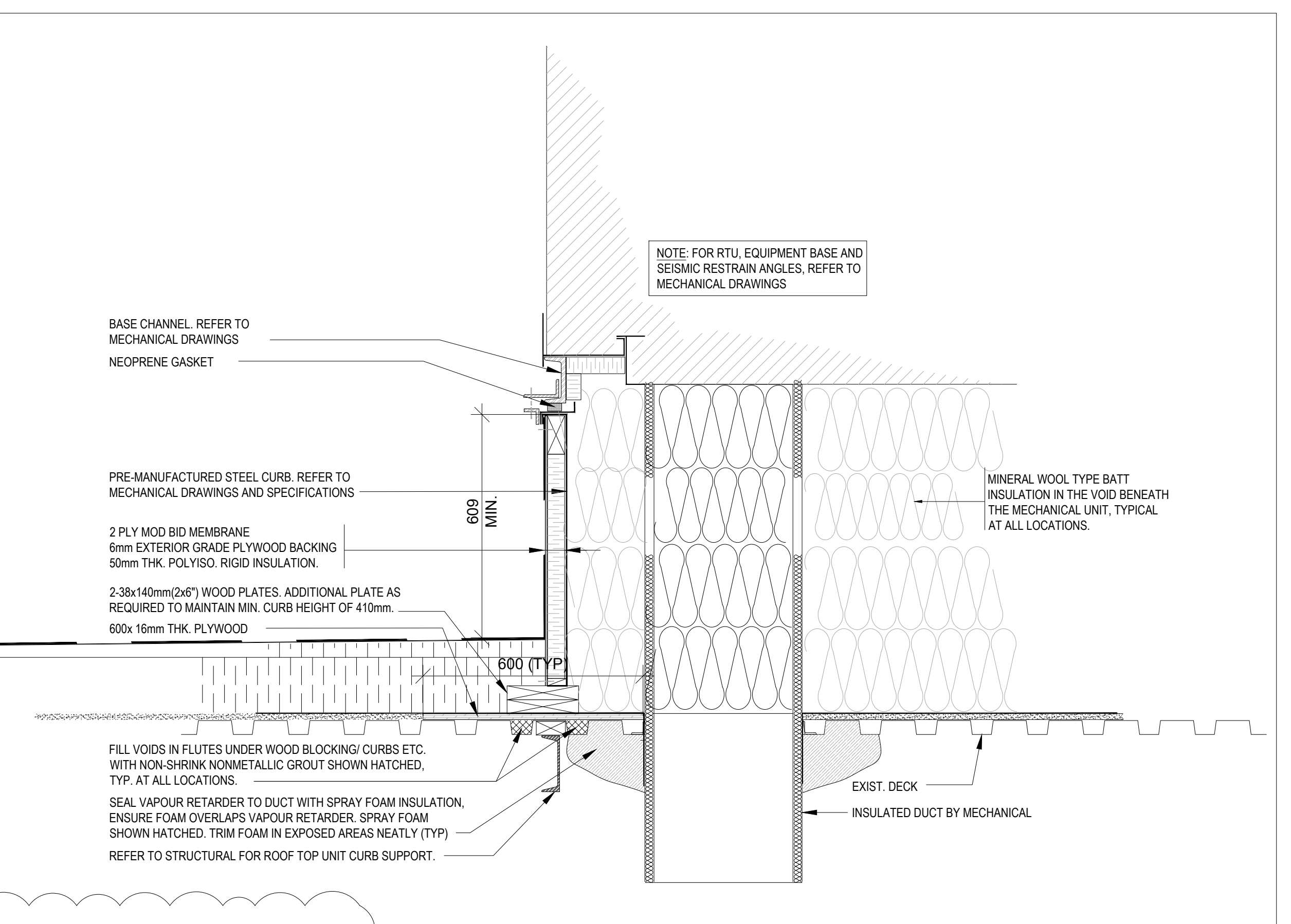
SECTION DETAIL AT EXT. WALL

AR-D-501 SCALE: 1:10



ROOF PLAN

AR-D-501 SCALE: 1:200



SECTION DETAIL AT CURB (TYP)

AR-D-501 SCALE: 1:10

NOTES FOR MECHANICAL ROOFTOP EQUIPMENT AND EXHAUST FAN REMOVALS AND ROOF INFILL (TYPICAL):

- FOR MECHANICAL COMPONENTS AND EQUIPMENT REMOVALS REFER TO MECHANICAL DRAWINGS.
- CAREFULLY REMOVE EXISTING REMAINING CURBS SYSTEM C/W ALL ITS ASSOCIATES COMPONENTS TO ROOF DECK.
- UPON INSTALLATION OF THE NEW STRUCTURAL STEEL DECK, INSTALL 1/2" GYPLAP SHEATHING WITH PLATE/SCREW FASTENERS, 4 PER 4 SQ./FT. AREA.
- APPLY SELF-ADHERING VAPOUR BARRIER MEMBRANE (IE. SOPRIVPR).
- INSTALL INSULATION LAYERS TO APPLIED VAPOUR BARRIER WITH SCREW/PLATE FASTENERS ON THE BASE LAYER, AND MANUFACTURER'S INSULATION ADHESIVE ON REMAINING SUBSEQUENT LAYERS (1 IE DUOTACK ADHESIVE).
- APPLY 6MM PROTECTION BOARD ON TOP LAYER OF INSULATION WITH MANUFACTURER'S ADHESIVE.
- TORCH APPLY 180G FLAM BASE MODIFIED BITUMINOUS MEMBRANE TO PROTECTION BOARD.
- TORCH APPLY 250G FLAM (GR.) CAP MODIFIED BITUMINOUS MEMBRANE TO BASE MEMBRANE.
- COMPLETE ALL COMPONENTS AS PER CSA WIND UPLIFT SPECIFICATIONS - CONTRACTOR TO DETERMINE THESE REQUIREMENTS FOR COMPLIANCE.

NOTES FOR THE PROVISION OF CRICKETS(TYPICAL):

TAPERED (CRICKET) POLYSTYRENE INSULATION: INCLUDED TAPERED INSULATION DRAWINGS ARE DIAGRAMMATICAL ONLY AND INDICATE THE GENERAL / APPROXIMATE LOCATIONS. ACTUAL TAPERED INSULATION DESIGN, LAYOUT, THICKNESSES, ETC. MAY DIFFER DUE TO SITE CONDITIONS, INTERFERENCES AND MECHANICAL DETAIL LOCATIONS. PRIME CONTRACTOR MUST ENDEAVOUR TO COMPLETE ALL TAPERED INSULATION INSTALLATIONS THROUGHOUT THE CONTRACT ROOF AREA(S) IMMEDIATELY UPON COMPLETION OF THE UNDERLYING ROOF SYSTEM COMPONENTS IE. BASE INSULATION (ENSURE ALL CRICKETS ARE COVERED AND SECURED AT END OF DAY WITH PROTECTION BOARD AND 2-PLY MODIFIED BITUMINOUS MEMBRANE AS PER THE SPECIFICATIONS). PRIME CONTRACTOR IS RESPONSIBLE TO PROVIDE DETAILED MEASUREMENTS (X & Y AXIS) OF EACH TAPERED (CRICKET) LOCATION, TO BE CHOSEN BY TAPERED INSULATION MANUFACTURER FOR THE PURPOSE OF TAPERED INSULATION DESIGN AND MANUFACTURING. CONTRACTOR MUST PROVIDE DETAILED SHOP DRAWINGS TO PROJECT CONSULTANT FOR REVIEW & APPROVAL PRIOR TO PRODUCTION OF TAPERED INSULATION SYSTEM. SHOP DRAWINGS MUST INDICATE SYSTEM DESIGN, INCLUDING BUT NOT LIMITED TO: LAYOUT, SLOPE THICKNESSES (4%) OF THE CRICKETS, ETC. EXTRA COSTS FOR REVISED TAPERED INSULATION DESIGN, LAYOUT AND INSTALLATION TO SUIT ACTUAL SITE CONDITIONS WILL NOT BE CONSIDERED.

REMOVE AND REPLACE WASHROOM EXHAUST FAN

REMOVE ROOFTOP SPLIT SYSTEM CONDENSER

REMOVE ROOFTOP ERV. REFER TO MECHANICAL DRAWINGS.

RELOCATE EXIST. PLUMBING VENT

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PHONE: 613-634-7373
WWW.WSP.COM



CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. # --

PROJECT:

LOMBARDY PUBLIC SCHOOL
EXTERIOR UPGRADES

KEY PLAN:


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ISSUED FOR - REVISION:

5	2026/04/27	ISSUED FOR ADDENDUM 01
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: N/A			IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: DM			
DRAWN BY: JT			
CHECKED BY: ST			 25mm

CIVIL

GENERAL NOTES

SHEET NUMBER:

C0.1

SHEET #:

OF 0

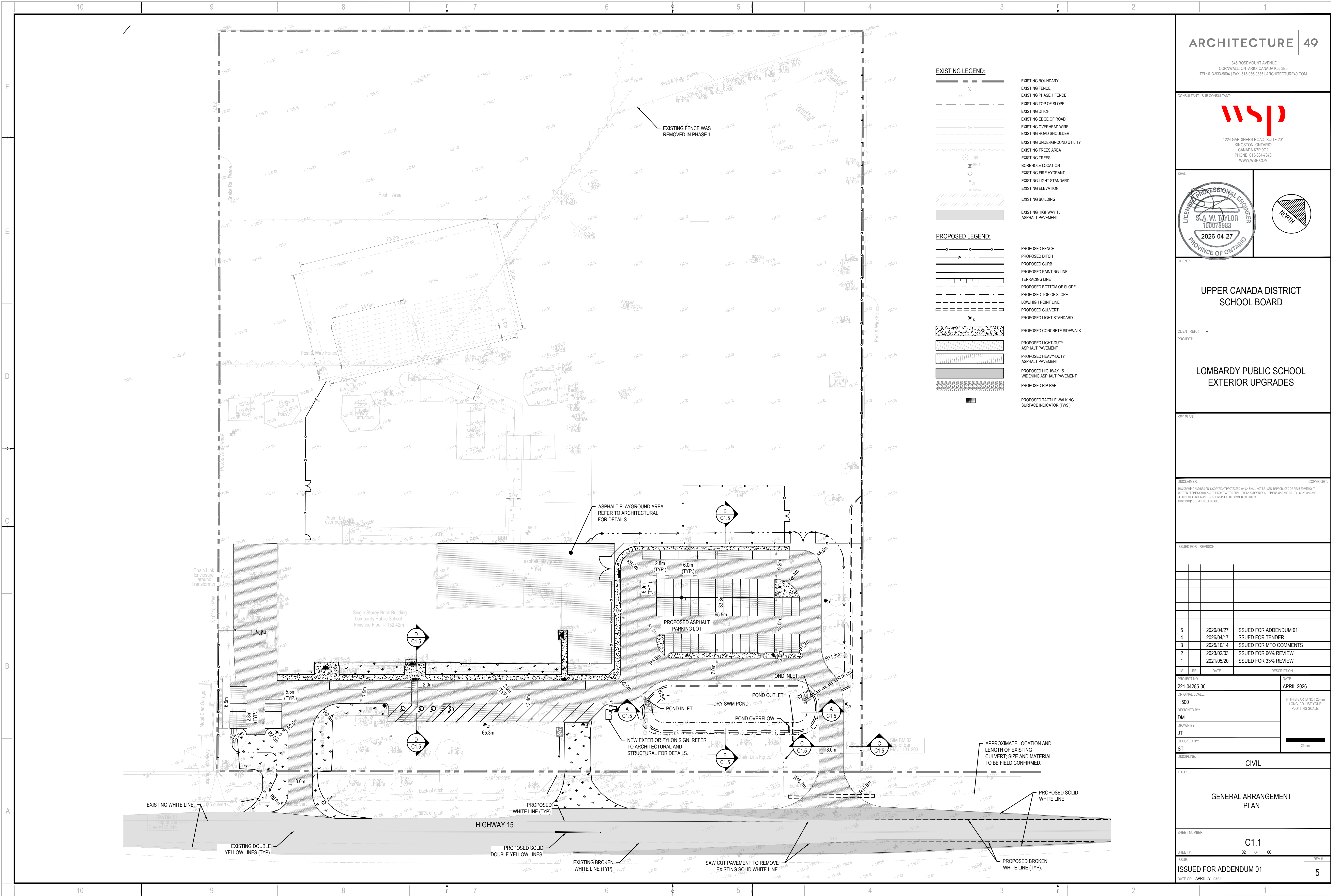
ISSUE:

EV #

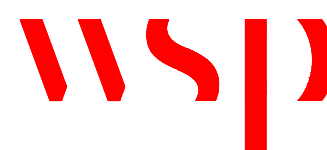
ISSUED FOR ADDENDUM 01

DATE OF: APRIL 27, 2026

1

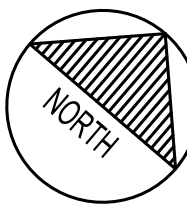


CONSULTANT - SUB CONSULTANT



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PHONE: 613-634-7373
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SEAL



CLIENT:

UPPER CANADA DISTRICT
SCHOOL BOARD

CLIENT REF. #

PROJECT:

LOMBARDY PUBLIC SCHOOL
EXTERIOR UPGRADES

KEY PLAN

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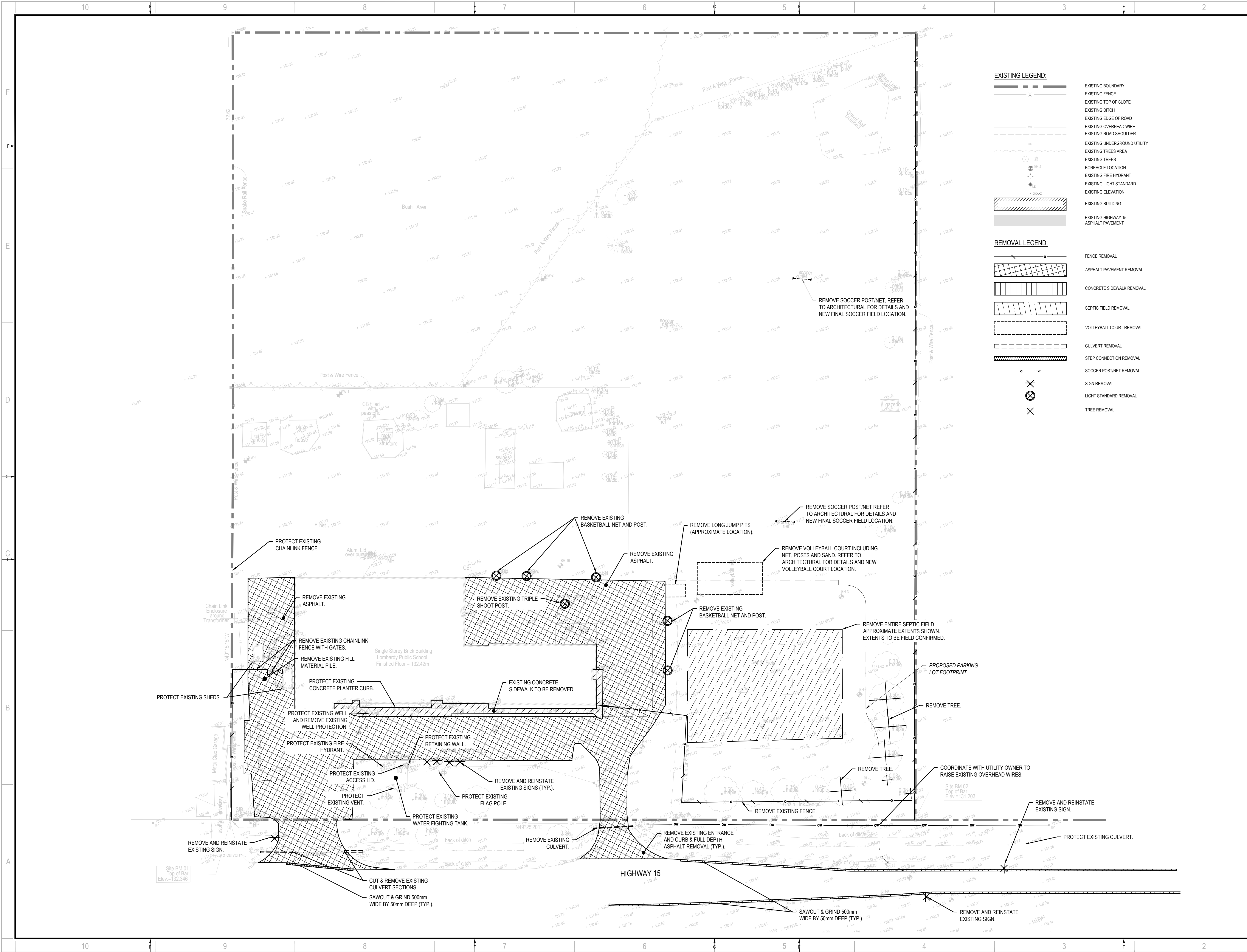
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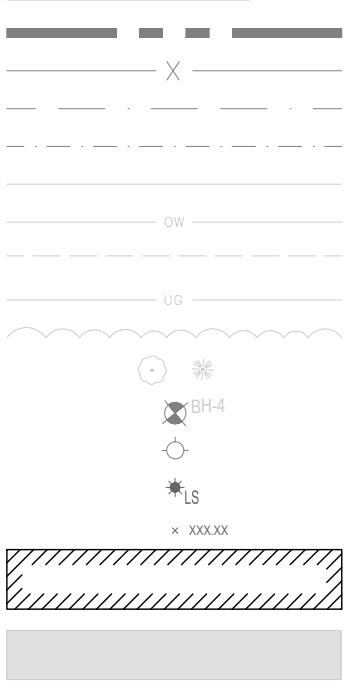
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2		2023/02/03	ISSUED FOR 66% REVIEW
1		2021/05/20	ISSUED FOR 33% REVIEW

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TITLE:	GENERAL ARRANGEMENT PLAN
SHEET NUMBER:	C1.1
SHEET #:	02 OF 06
ISSUE:	ISSUED FOR ADDENDUM 01
DATE OF:	APRIL 27, 2026
REV #:	5

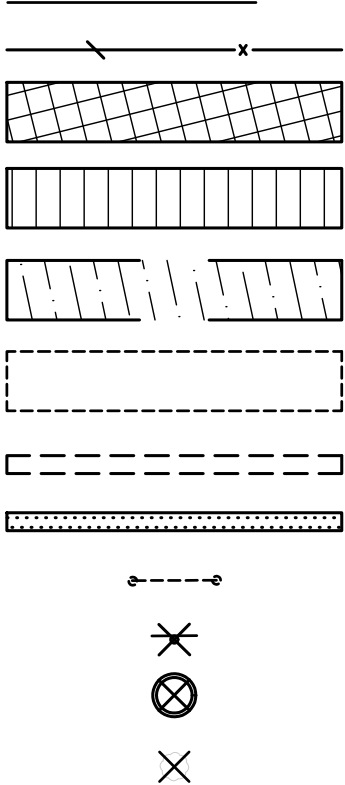


EXISTING LEGEND:



- 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
- BOREHOLE LOCATION
- EXISTING FIRE HYDRANT
- EXISTING LIGHT STANDARD
- EXISTING ELEVATION
- EXISTING BUILDING
- EXISTING HIGHWAY 15 ASPHALT PAVEMENT

REMOVAL LEGEND:



- FENCE REMOVAL
- ASPHALT PAVEMENT REMOVAL
- CONCRETE SIDEWALK REMOVAL
- SEPTIC FIELD REMOVAL
- VOLLEYBALL COURT REMOVAL
- CULVERT REMOVAL
- STEP CONNECTION REMOVAL
- SOCCER POST/NET REMOVAL
- SIGN REMOVAL
- LIGHT STANDARD REMOVAL
- TREE REMOVAL

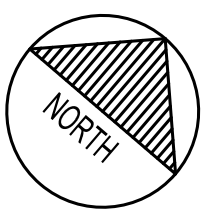
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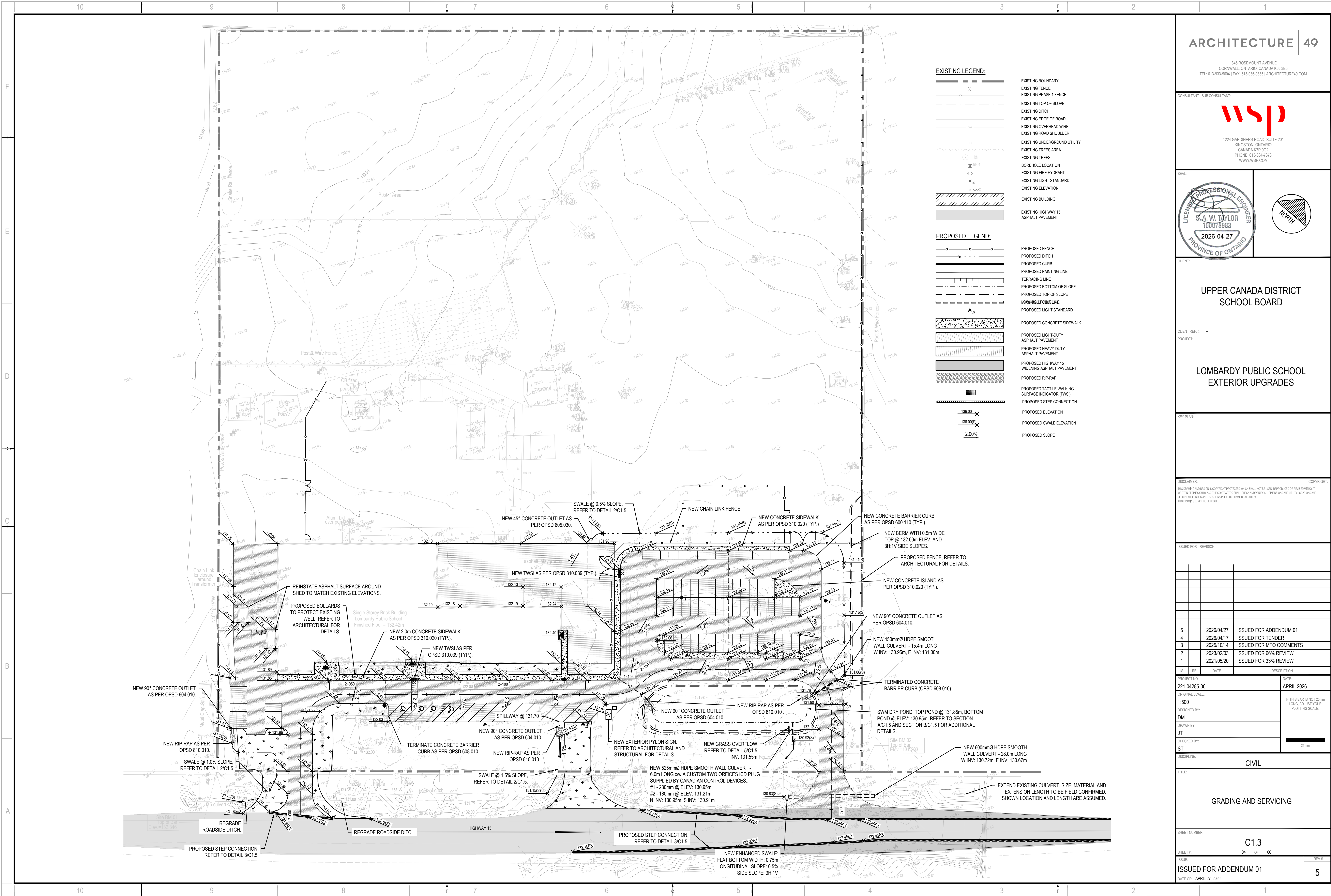
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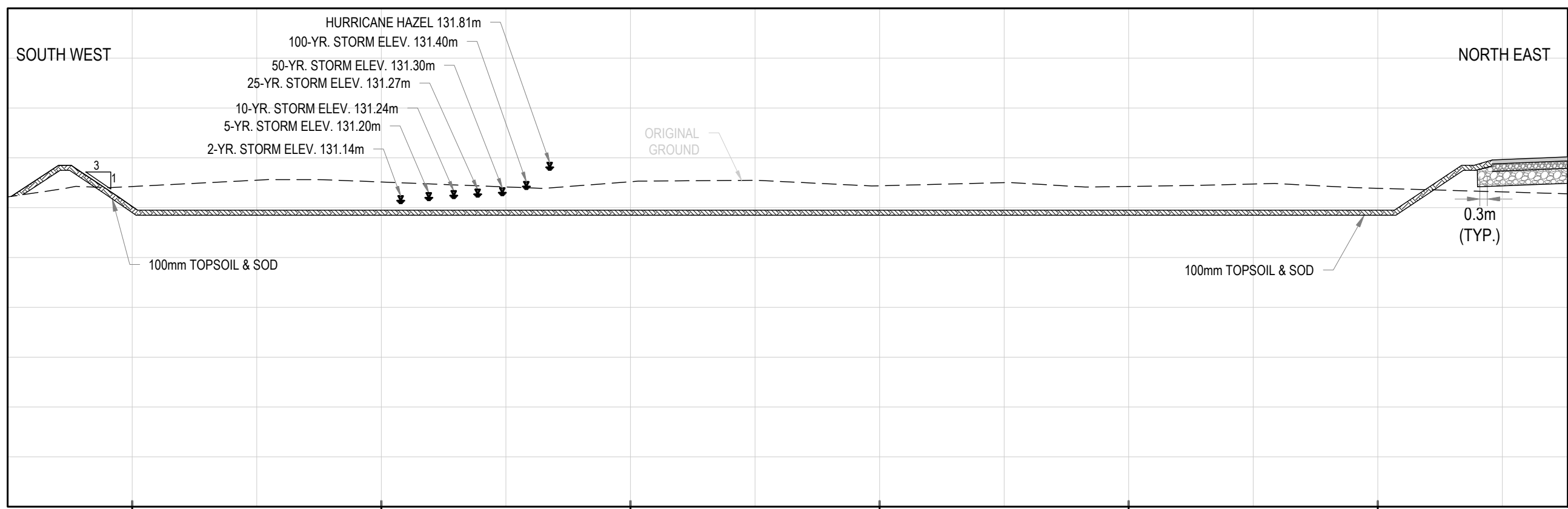
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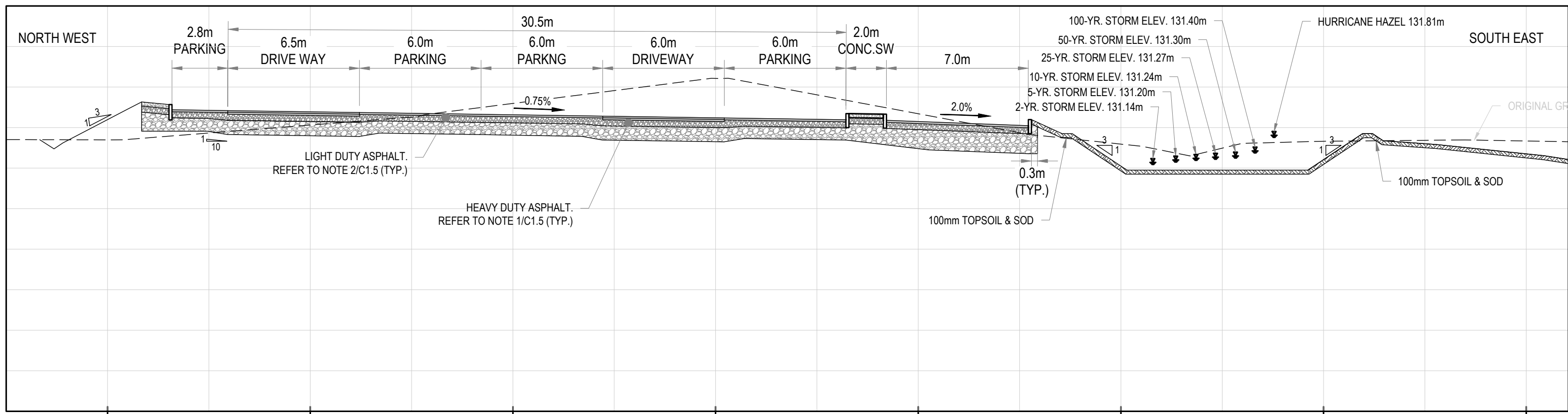
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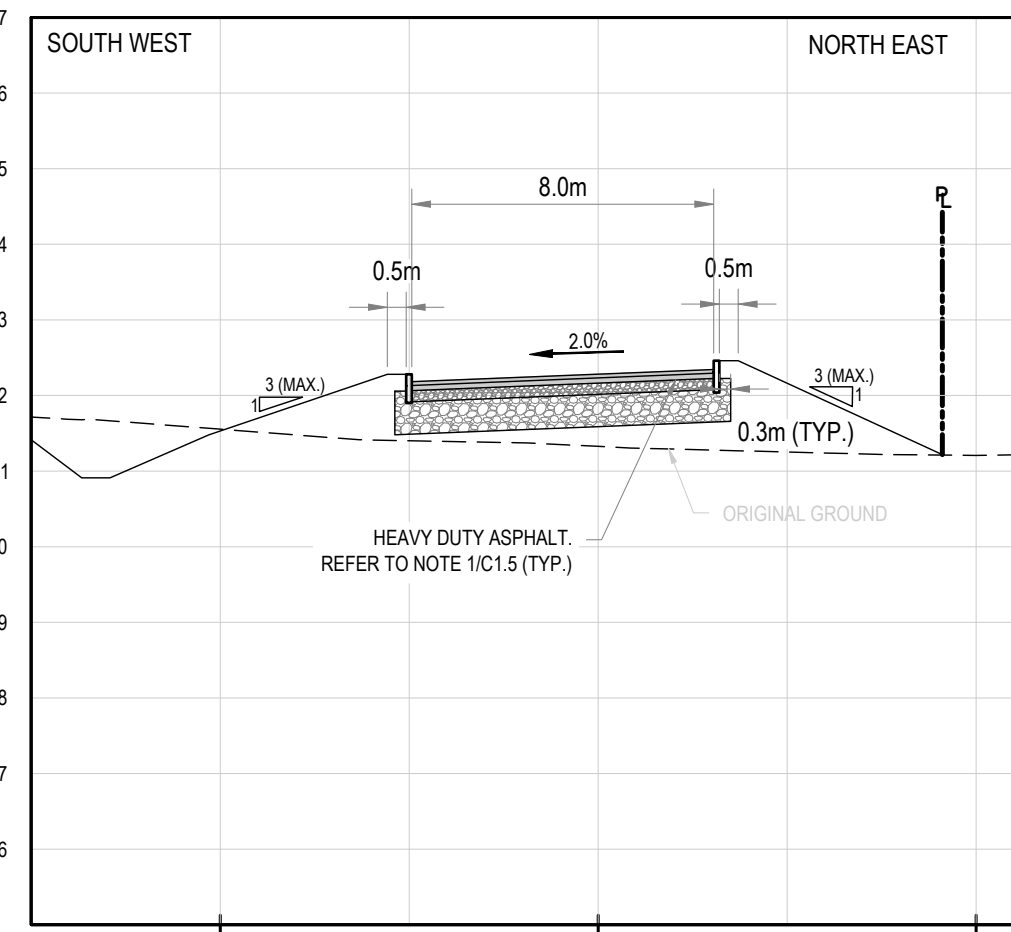




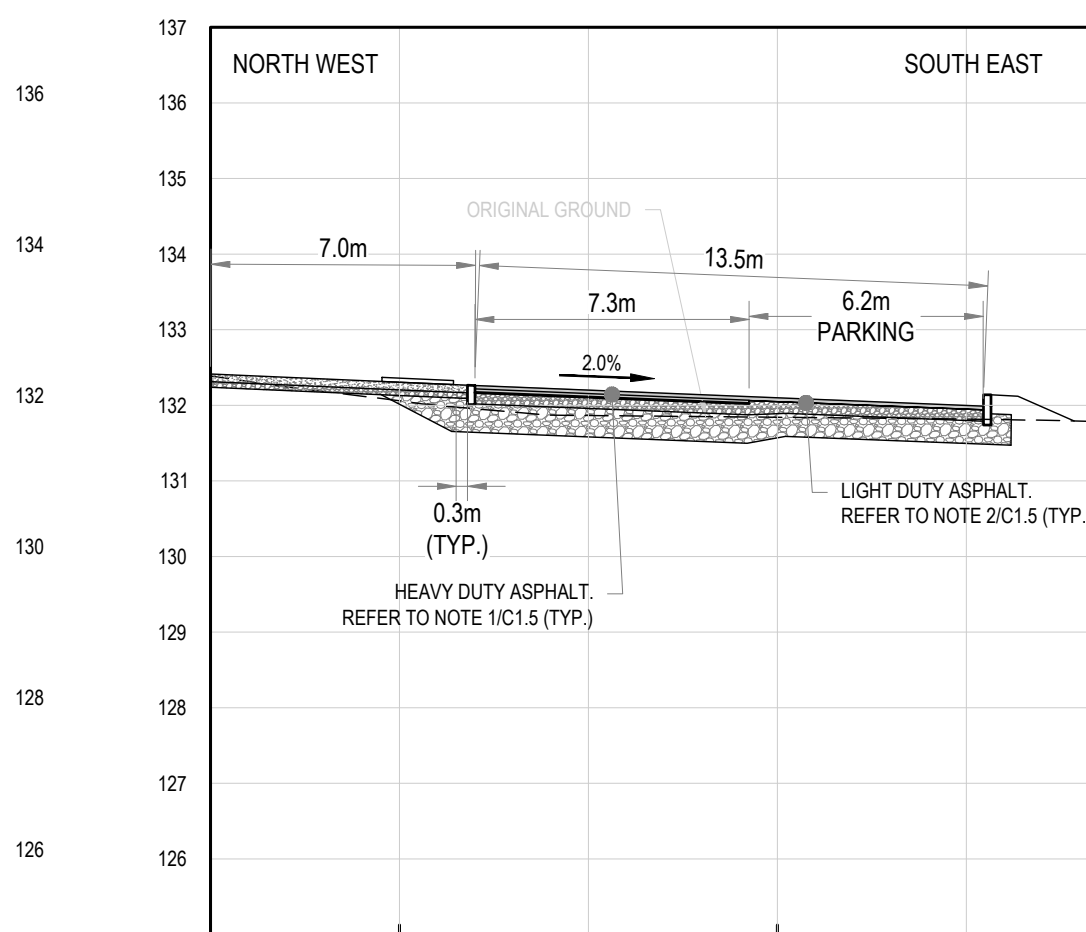
A SECTION A
C1.5 SCALE: H: 1:200, V: 1:100



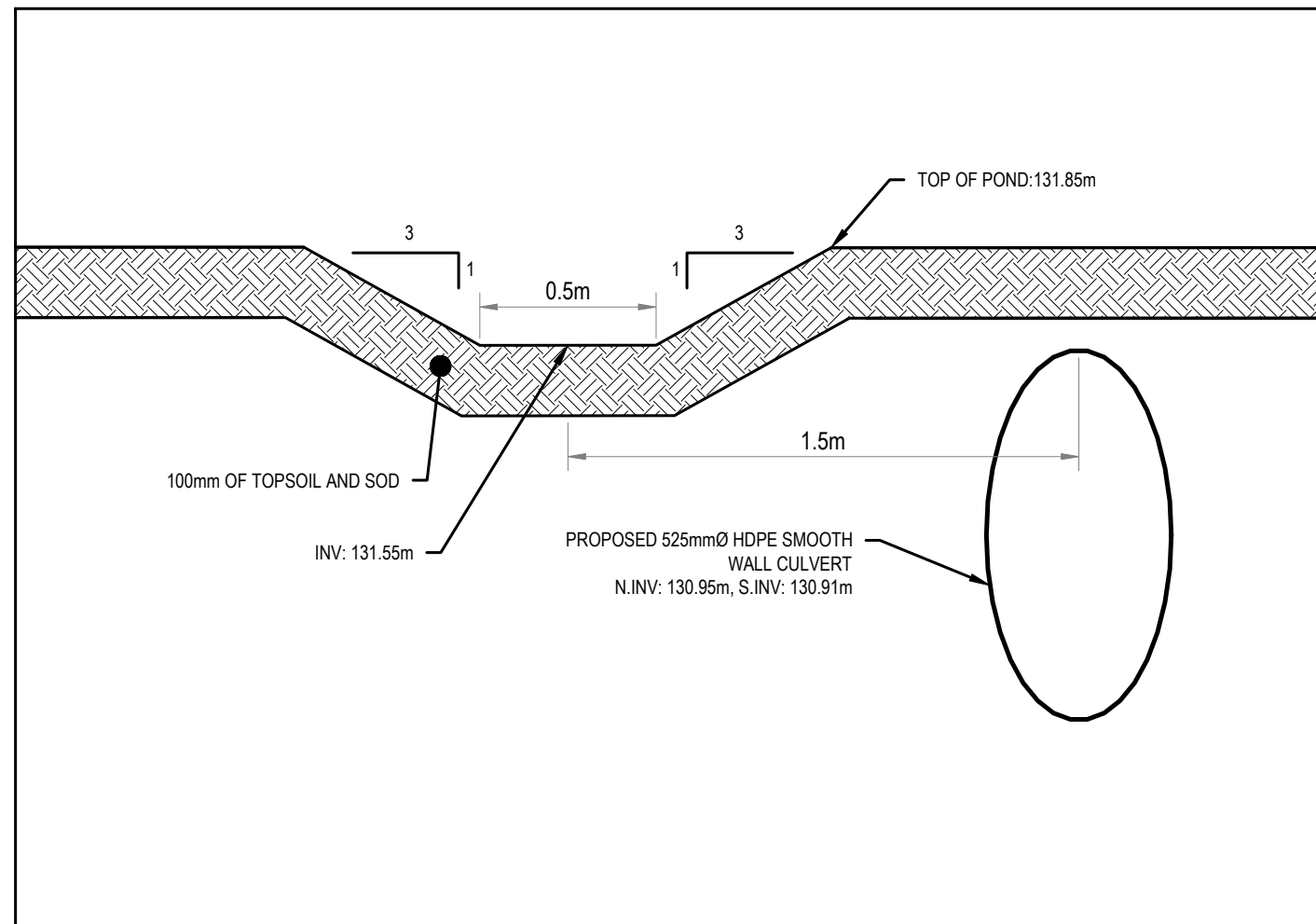
B SECTION B
C1.5 SCALE: H: 1:200, V: 1:100



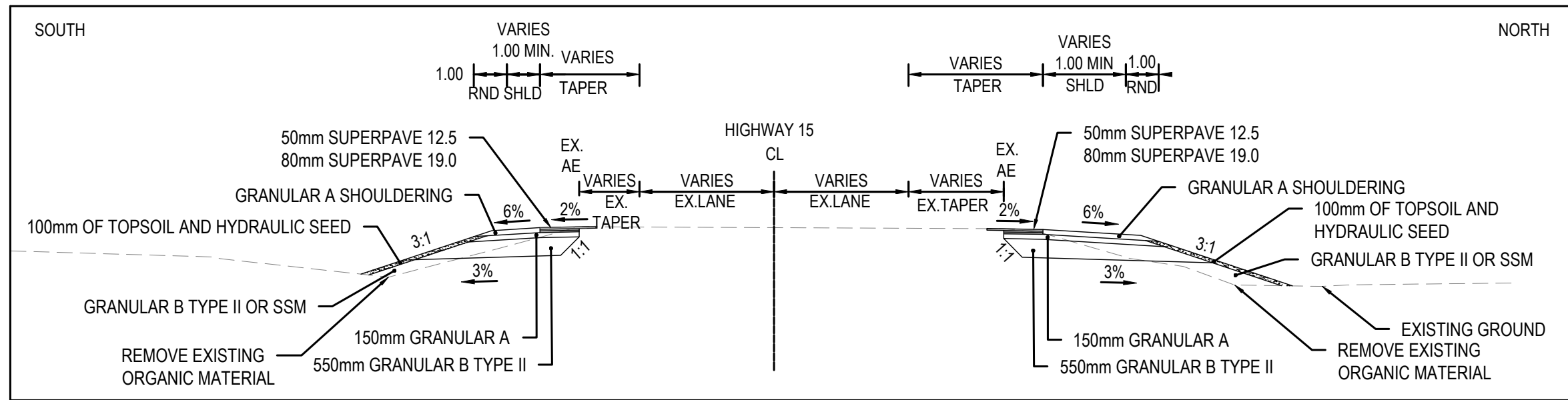
C SECTION C
C1.5 SCALE: H: 1:200, V: 1:100



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

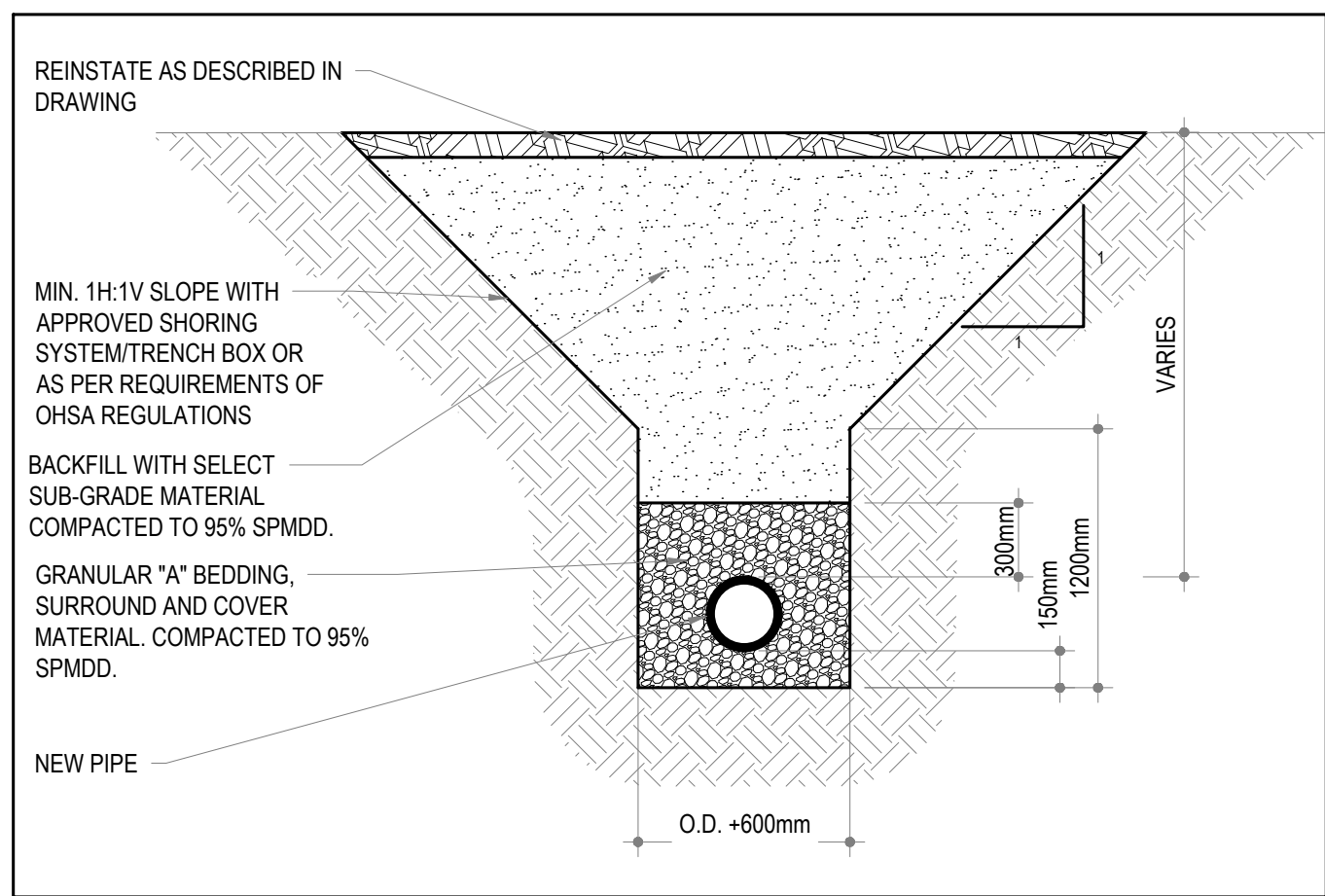


5 DRY POND OVERFLOW DETAIL
C1.5 SCALE: N.T.S.

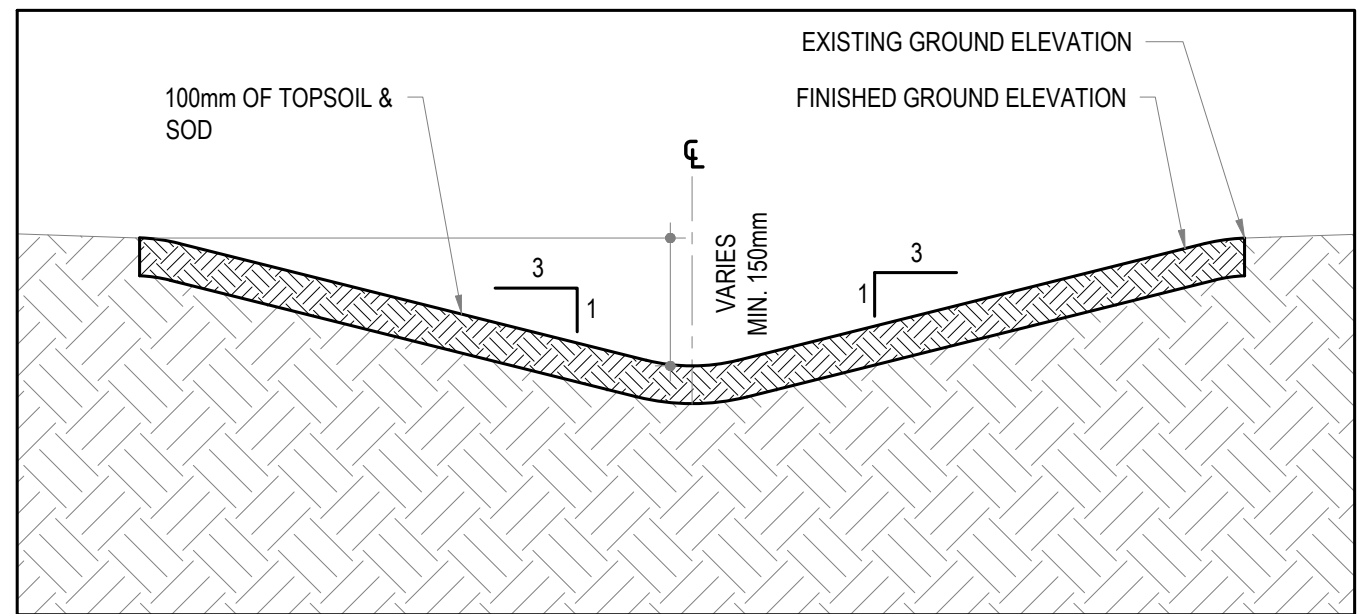


6 TYPICAL SECTION - HIGHWAY 15
C1.5 SCALE: N.T.S.

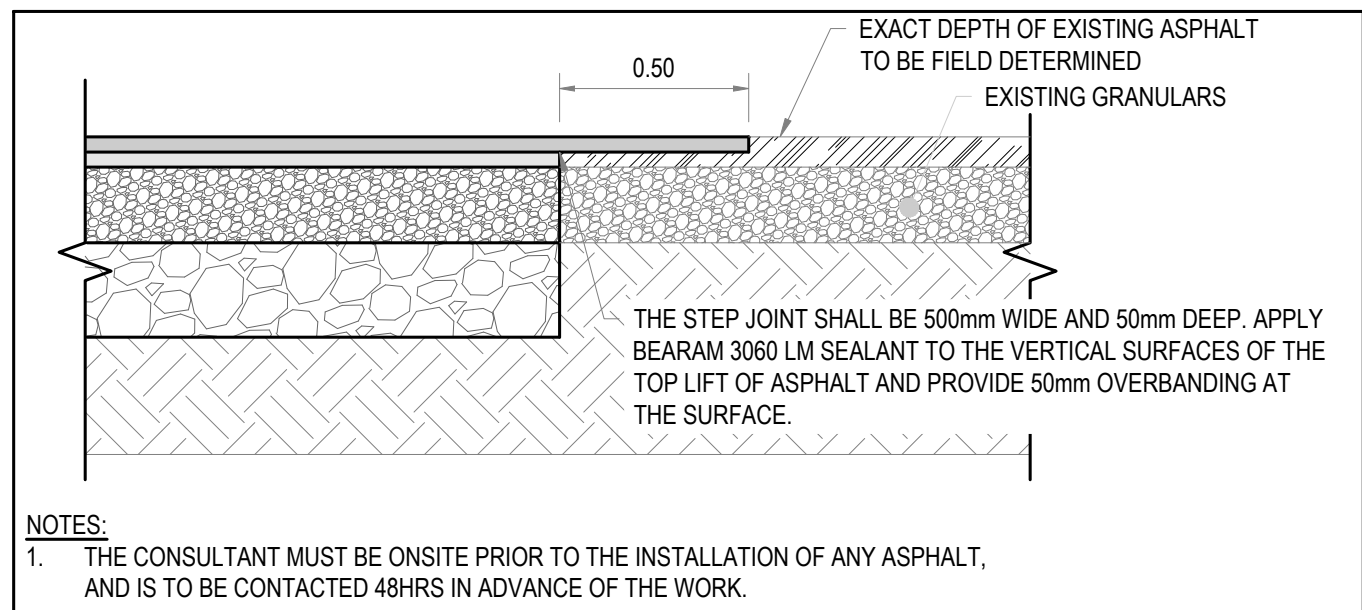
- NOTES:
- HEAVY DUTY ASPHALT SHALL BE USED FOR ALL PRIVATE ROADWAYS CONTAINING:
 - 40mm SUPERPAVE 12.5 SURFACE COURSE, 50mm SUPERPAVE 19.0 BINDER COURSE, 150mm GRANULAR 'A' BASE, 350mm GRANULAR 'B' TYPE II SUBBASE.
 - LIGHT DUTY ASPHALT SHALL BE USED FOR ALL PRIVATE VEHICLE PARKING SPACES CONTAINING:
 - 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.



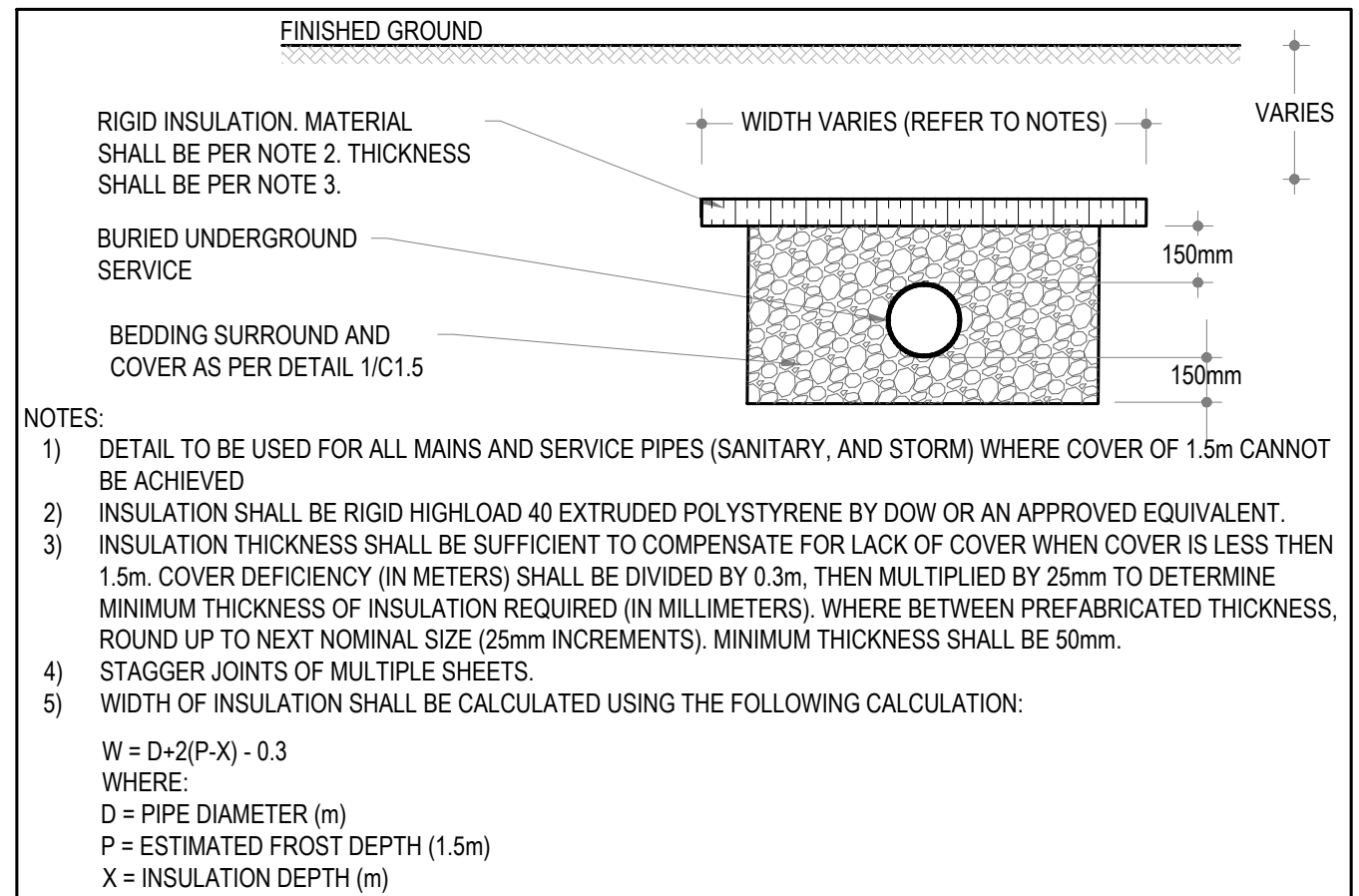
1 TYPICAL TRENCH DETAIL
C1.5 SCALE: N.T.S.



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.

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DRAWN BY:	JT		
CHECKED BY:	ST		

DISCIPLINE: CIVIL

TITLE:

CROSS SECTIONS & DETAILS

SHEET NUMBER:

C1.5

SHEET # OF

06 OF 06

ISSUE:

ISSUED FOR ADDENDUM 01

DATE OF: APRIL 27, 2026

5

PART 1 GENERAL

1.1 RELATED REQUIREMENTS

- .1 Section 02 41 13 - Selective Site Demolition.
- .2 Section 31 05 16 - Aggregate for Earthwork.
- .3 Section 31 22 13 - Rough Grading.
- .4 Section 31 23 16.26 - Rock Removal.
- .5 Section 32 91 19.13 - Topsoil Placement & Grading.
- .6 Section 32 11 16.01 - Granular Sub-Base.
- .7 Section 32 11 23 - Aggregate Base Courses.
- .8 Section 33 42 13 - Stormwater Culverts

1.2 REFERENCE STANDARDS

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM C 117-17, Standard Test Method for Material Finer Than 0.075 mm (No.200) Sieve in Mineral Aggregates by Washing.
 - .2 ASTM C136/C136M-19, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - .3 ASTM D 698-12, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³) (600 kN-m/m³).
 - .4 ASTM D 1557-02e1, Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³) (2,700 kN-m/m³).
 - .5 ASTM D 4318-17e1, Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils.
- .2 Ontario Provincial Standard Specifications (OPSS)/Ontario Ministry of Transportation
 - .1 OPSS.MUNI 401, Construction Specification for Trenching, Backfilling, and Compacting.
 - .2 OPSS.MUNI 410, Construction Specification for Pipe Sewer Installation in Open Cut.
 - .3 OPSS.MUNI 1004, Material Specification for Aggregates - Miscellaneous.
 - .4 OPSS.MUNI 1010, Material Specification for Aggregates - Base, Subbase, Select Subgrade, and Backfill Material.
- .3 CSA Group (CSA)
 - .1 CAN/CSA-A3000-03, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
 - .1 CSA-A3001-03, Cementitious Materials for Use in Concrete.
 - .2 CAN/CSA-A23.1/A23.2-19, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
- .4 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-8.2-M88, Sieves, Testing, Woven Wire, Metric.
- .5 U.S. Environmental Protection Agency (EPA)/Office of Water

- .1 EPA 833-R-06-004, Developing Your Stormwater Pollution Prevention Plan, A Guide for Construction Sites.

1.3 DEFINITIONS

- .1 Excavation classes: two classes of excavation will be recognized; common excavation and rock excavation.
- .1 Rock: solid material in excess of 1.00 m³ and which cannot be removed by means of heavy-duty mechanical excavating equipment with 0.95 to 1.15 m³ bucket. Frozen material not classified as rock.
- .2 Common excavation: excavation of materials of whatever nature, which are not included under definitions of rock excavation.
- .2 Unclassified excavation: excavation of deposits of whatever character encountered in Work.
- .3 Topsoil:
- .1 Material capable of supporting good vegetative growth and suitable for use in top dressing, landscaping and seeding.
- .2 Material reasonably free from subsoil, clay lumps, brush, objectionable weeds, and other litter, and free from cobbles, stumps, roots, and other objectionable material larger than 25 millimeters in any dimension.
- .4 Waste material: excavated material unsuitable for use in Work or surplus to requirements.
- .5 Borrow material: material obtained from locations outside area to be graded and required for construction of fill areas or for other portions of Work.
- .6 Recycled fill material: material, considered inert, obtained from alternate sources and engineered to meet requirements of fill areas.
- .7 Unsuitable materials:
- .1 Weak and compressible materials under excavated areas.
- .2 Frost susceptible materials under excavated areas.
- .3 Frost susceptible materials:
- .1 Fine grained soils with plasticity index less than 10 when tested to ASTM D 4318, and gradation within limits specified when tested to ASTM D 422 and ASTM C 136: Sieve sizes to CAN/CGSB-8.2.
- .2 Table
- | Sieve Designation | % Passing |
|-------------------|-----------|
| 2.00 mm | 100 |
| 0.10 mm | 45 - 100 |
| 0.02 mm | 10 - 80 |
| 0.005 mm | 0 - 45 |
- .3 Coarse grained soils containing more than 20% by mass passing 0.075 mm sieve.
- .4 Unshrinkable fill: very weak mixture of Portland cement, concrete aggregates and water that resists settlement when placed in utility trenches, and capable of being readily excavated.

1.4 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Make submittals in accordance with Section 01 33 00.

- .2 Quality Control: in accordance with Section 01 45 00:
 - .1 Submit condition survey of existing conditions as described in EXISTING CONDITIONS article of this Section.
 - .2 Submit for review by the Consultant proposed dewatering methods as described and sediment control methods as described in PART 3 of this Section.
 - .3 Submit to the Consultant written notice at least 7 days prior to excavation work.
 - .4 Submit to the Consultant written notice when bottom of excavation is reached.
 - .5 Submit to the Consultant testing and inspection results as described in PART 3 of this Section.
- .3 Preconstruction Submittals:
 - .1 Submit records of underground utility locates, indicating: location plan of existing utilities as found in field, clearance record from utility authorities, location plan of relocated and abandoned services, as required.

1.5 QUALITY ASSURANCE

- .1 Qualification Statement: submit proof of insurance coverage for professional liability.
- .2 Submit design and supporting data at least 2 weeks prior to beginning Work.
- .3 Design and supporting data submitted to bear stamp and signature of qualified professional engineer registered or licensed in Ontario, Canada.
- .4 Keep design and supporting data on site.
- .5 Engage services of qualified professional engineer who is registered or licensed in Ontario, Canada in which Work is to be carried out to design and inspect cofferdams, shoring, bracing and underpinning required for Work.
- .6 Do not use soil material until written report of soil test results are reviewed and approved by the Consultant.
- .7 Health and Safety Requirements:
 - .1 Construction occupational health and safety in accordance with Section 01 35 30.

1.6 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 19.
- .2 Divert excess aggregate materials from landfill to local quarry or recycling facility for reuse as directed by the Consultant.

1.7 EXISTING CONDITIONS

- .1 Existing buried utilities and structures:
 - .1 Before commencing work verify and establish location of buried services on and adjacent to site.
 - .2 Arrange with appropriate authority for relocation of buried services that interfere with execution of work: pay costs of relocating services.
 - .3 Remove obsolete buried services within 2 m of foundations: cap cut-offs.
 - .4 Size, depth and location of existing utilities and structures as indicated are for guidance only. Completeness and accuracy are not guaranteed.

- .5 Prior to commencing excavation Work, notify applicable Owner or authorities having jurisdiction, establish location and state of use of buried utilities and structures. Owners or authorities having jurisdiction to clearly mark such locations to prevent disturbance during Work.
- .6 Confirm locations of buried utilities by careful test excavations.
- .7 Maintain and protect from damage, water, sewer, gas, electric, telephone and other utilities and structures encountered.
- .8 Where utility lines or structures exist in area of excavation but had not been identified on the drawings, obtain direction of Engineer before removing or re-routing. Costs for such Work to be paid by Owner.
- .9 Record location of maintained, re-routed and abandoned underground lines.
- .10 Confirm locations of recent excavations adjacent to area of excavation.
- .2 Existing buildings and surface features:
 - .1 Conduct, with the Consultant, condition survey of existing buildings, trees and other plants, lawns, fencing, service poles, wires, rail tracks, pavement, survey benchmarks and monuments which may be affected by Work.
 - .2 Protect existing buildings and surface features from damage while Work is in progress. In event of damage, immediately make repair as directed by the Consultant.
 - .3 Where required for excavation, cut roots or branches as directed by the Consultant.

PART 2 PRODUCTS

2.1 MATERIALS

- .1 Granular A material to OPSS.MUNI 1010.
- .2 Granular B material, Type II to OPSS.MUNI 1010.
- .3 Select sub-grade material to OPSS.MUNI 1010. Any imported sub-grade backfill (earth fill) must be managed in accordance with Ontario Regulation 406/19 including the sampling frequency and types of analysis at the source site(s). The soil quality of the imported earth fill to be used at the site must meet as a minimum Table 3.1 of the Excess Soil Quality Standards.
- .4 Geotextiles: to Section 31 32 19.16.

PART 3 EXECUTION

3.1 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to sediment and erosion control drawings and Environmental Protection specification.
- .2 Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
- .3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.2 SITE PREPARATION

- .1 Protect existing features in accordance with Section 01 56 00 and applicable local regulations.
- .2 Keep excavations clean, free of standing water, and loose soil.
- .3 Remove obstructions, ice and snow from surfaces to be excavated within limits indicated.
- .4 Where soil is subject to significant volume change due to change in moisture content, cover and protect to the Consultant approval.
- .5 Protect natural and man-made features required to remain undisturbed. Unless otherwise indicated or located in an area to be occupied by new construction, protect existing trees from damage.
- .6 Protect buried services that are required to remain undisturbed.

3.3 STOCKPILING

- .1 Existing granular fill material shall be excavated and stockpiled. If the material is deemed acceptable following geotechnical review, the stockpiled granular fill shall be reused within the utility trench.
 - .1 Stockpile granular materials in manner to prevent segregation.
- .2 Protect fill materials from contamination.
- .3 Implement sufficient erosion and sediment control measures to prevent sediment release off construction boundaries and into water bodies.

3.4 SHORING, BRACING AND UNDERPINNING

- .1 Protect existing features in accordance with applicable local regulations.
- .2 Engage services of qualified professional engineer who is registered or licensed in the province of Ontario, Canada in which work is to be carried out to design and inspect shoring, bracing and underpinning required for work.
- .3 Submit design and supporting data at least 2 weeks prior to commencing work.
- .4 Design and supporting data submitted to bear stamp and signature of qualified professional engineer registered or licensed in the province of Ontario, Canada.

3.5 DEWATERING AND HEAVE PREVENTION

- .1 Keep excavations free of water while work is in progress.
- .2 Avoid excavation below groundwater table if quick condition or heave is likely to occur. Prevent piping or bottom heave of excavations by groundwater lowering, sheet pile cut-offs, or other means.
- .3 Provide temporary drainage and pumping facilities to keep excavations and site free from standing water.
- .4 Protect open excavations against flooding and damage due to surface run-off.
- .5 Dispose of water in accordance with Section 01 35 43 and in a manner not detrimental to public and private property, or any portion of Work completed or under construction.
 - .1 Provide and maintain temporary drainage ditches and other diversions outside of excavation limits as required.

3.6 EXCAVATION

- .1 Excavate to lines, grades, elevations and dimensions as indicated or as directed by the Consultant.
- .2 Ensure compliance with Ontario Regulation 406/19 regarding the disposal of excess soils.
 - .1 Be responsible for the preparation of the Assessment of Past Uses (APU), the Soil Characterization Report (SCR) and the Excess Soil Destination Assessment Report (ESDAR).
- .3 Remove concrete, paving, walks and other obstructions encountered during excavation.
- .4 Excavation must not interfere with bearing capacity of adjacent foundations.
- .5 Dispose of surplus and unsuitable excavated material off site.
- .6 Do not obstruct flow of surface drainage or natural watercourses.
- .7 For trench excavation, unless otherwise authorized by the Consultant in writing, do not excavate more than 30 m of trench in advance of installation operations and do not leave open more than 15 m at end of day's operation.
- .8 Earth bottoms of excavations to be undisturbed soil, level, free from loose, soft or organic matter.
- .9 Obtain the Consultant's approval of completed excavation.
- .10 Remove unsuitable material from trench bottom to extent and depth as directed by the Consultant.
- .11 Correct unauthorized over-excavation as follows:
 - .1 Fill under areas with Granular B Type II compacted to not less than 95% SPMDD.
- .12 Install geotextiles in accordance with Section 31 12 19.16.
- .13 All open excavations shall be protected from freezing.

3.7 EXCAVATION FOR UTILITY TRENCH

- .1 Material excavated from the utility trench shall be stockpile for reuse on-site. Refer to drawings for fill placement and stockpiling requirements.

3.8 BEDDING AND SURROUND OF UNDERGROUND SERVICES

- .1 Place and compact granular A material for bedding and surround of underground services per detail drawings. Cover material to extend above pipe invert as indicated.
- .2 Place bedding and surround material in unfrozen condition.

3.9 BACKFILLING

- .1 Do not proceed with backfilling operations until the Consultant has inspected and approved installations as follows:
 - .1 The Consultant has inspected and approved installations.
 - .2 The Consultant has inspected and approved of construction below finish grade.
 - .3 Inspection, testing, approval, and recording location of underground utilities.
 - .4 Removal of concrete formwork.

- .2 Areas to be backfilled to be free from debris, snow, ice, water and frozen ground.
- .3 Do not use backfill material which is frozen or contains ice, snow or debris.
- .4 Place backfill material in uniform layers not exceeding 150 mm compacted thickness up to grades indicated. Compact each layer before placing succeeding layer.
- .5 Install drainage system in backfill as indicated.

3.10 RESTORATION

- .1 Upon completion of Work, remove waste materials and debris in accordance with Section 01 74 19. Trim slopes and correct defects as directed by the Consultant.
- .2 Replace topsoil as indicated.
- .3 Reinstall lawns to elevation which existed before excavation.
- .4 Reinstall pavements and sidewalks disturbed by excavation to thickness, structure and elevation which existed before excavation.
- .5 Clean and reinstall areas affected by Work as directed by the Consultant.
- .6 Use temporary plating to support traffic loads over unshrinkable fill for initial 24 hours.
- .7 Protect newly graded areas from traffic and erosion and maintain free of trash or debris.

END OF SECTION

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GENERAL

- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS AND ALL FORCES ARE IN METRIC UNITS (PER TG-ABBR-02).
- "WSP-S" REFERS TO WSP CANADA STRUCTURAL CONSULTANT.
- PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETION OF THE WORK.
- PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS, AND WITH EXISTING CONDITIONS.
- REPORT DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
- DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- DO NOT SCALE THESE DRAWINGS.
- ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.
- SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING AND FIREPROOFING REQUIREMENTS.
- STRUCTURAL DESIGN ASSUMES NON-LOAD RESTRICTED ULC FIRE RATED ASSEMBLIES, AND APPROPRIATE MATERIALS MUST BE USED.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.
- MAKE ADEQUATE PROVISIONS FOR ALL LOADS ACTING ON THE STRUCTURE DURING ERECTION, PROVIDE TEMPORARY SHORING AND BRACING TO KEEP THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT DURING CONSTRUCTION.
- DESIGN AND CONSTRUCTION REVIEW OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED.
- DESIGN OF NON-STRUCTURAL AND SECONDARY STRUCTURAL ELEMENTS (SUCH AS MISCELLANEOUS STEEL STAIRS, RAILINGS AND GUARDRAILS, PARTITIONS, CLADDING, BULKHEADS, ETC.) IS THE RESPONSIBILITY OF SPECIALTY PROFESSIONAL ENGINEERS ENGAGED BY THE CONTRACTOR OR THE SUPPLIERS; IT IS NOT WITHIN THE SCOPE OF SERVICES PROVIDED BY WSP-S AND WILL NOT BE REVIEWED BY WSP-S.
- CONSTRUCTION LOADS ON COMPLETED STRUCTURE NOT TO EXCEED DESIGN LOADS INDICATED ON DRAWINGS. FULL DESIGN LOADS MAY ONLY BE APPLIED AFTER THE CONCRETE REACHES ITS DESIGN STRENGTH.

DESIGN CRITERIA

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2024 ONTARIO BUILDING CODE (OBC), SUPPLEMENTED BY THE USER'S GUIDE — NBC 2020 STRUCTURAL COMMENTARIES.
- ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION UNLESS DIFFERENT EDITION IS REFERENCED BY THE APPLICABLE BUILDING CODE NOTED ABOVE.
- THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2020 NBC FOR THE SPECIFIC LOCATION OF SMITHS FALLS ONTARIO.
- BASED ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF A HIGH IMPORTANCE CATEGORY.
- SELF WEIGHT (SWT) IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. IT VARIES WITH THE STRUCTURAL SYSTEM, AND INCLUDES CONCRETE TOPPINGS ON STEEL DECK.
- SUPERIMPOSED DEAD LOADS (SDL) ARE NON-STRUCTURAL DEAD LOADS DUE TO NON-STRUCTURAL TOPPINGS, FINISHES, PARTITIONS, ROOFING MATERIALS, SUSPENDED EQUIPMENT, PAVERS, SOIL, ETC.
- DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD.
- UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ON DRAWINGS ARE SPECIFIED (UNFACTORED) LOADS, TO BE USED FOR ULS DESIGN. FOR SLS DESIGN, THESE LOADS CAN BE REDUCED BY MULTIPLYING WITH THE RATIO OF APPROPRIATE IMPORTANCE FACTORS $k_s(SLS)$ / $k_s(ULS)$ GIVEN BELOW.
- IF ONLY ONE VALUE IS GIVEN FOR A LOAD, CONSIDER IT LIVE LOAD.
- FOR CONNECTION LOADS, "+" SIGN INDICATES TENSION AND "-" SIGN INDICATES COMPRESSION, EXCEPT FOR COLUMN LOADS WHERE "+" SIGN INDICATES COMPRESSION AND "-" SIGN INDICATES TENSION.
- SNOW: $S_s = 2.3 \text{ kPa}$; $S_r = 0.4 \text{ kPa}$; $I_s(ULS) = 1.15$; $I_s(SLS) = 0.9$
MINIMUM UNFACTORED SNOW LOAD = $2.02 \text{ kPa} \times I_s$
- RAIN: 24 HOUR RAINFALL = 92 mm
- WIND: $q_{50} = 0.41 \text{ kPa}$; $I_w(ULS) = 1.15$; $I_w(SLS) = 0.75$
TERRAIN TYPE: OPEN
INTERNAL PRESSURE CATEGORY: 2
 $F_n = 1.273 \times \text{AREA (FIG I-12)}$

SHOP DRAWINGS

- SUBMIT PDF'S OF SHOP DRAWINGS FOR REVIEW BEFORE START OF WORK. PACKAGES TO BE SUBMITTED ARE NOTED IN THE RELEVANT SECTIONS BELOW.
- ALL SHOP DRAWINGS ARE TO BE REVIEWED AND STAMPED BY THE CONTRACTOR PRIOR TO DISTRIBUTION TO CONSULTANTS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- REVIEW OF SHOP DRAWINGS BY WSP-S IS ON A SAMPLING BASIS, FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS. IT IS NOT A DETAILED CHECK AND MUST NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE CONTRACTOR'S RESPONSIBILITY TO MAKE THE WORK ACCURATE AND IN CONFORMITY WITH ALL THE CONTRACT DOCUMENTS, TO REVIEW SHOP DRAWINGS AND TO COORDINATE WORK OF INTERFACING TRADES AND MANUFACTURE OF INTERFACING PRODUCTS.
- REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THESE DRAWINGS.
- ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN THE WSP-S OFFICE. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED. SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONSTRUCTION INTENDED.

- AFTER REVIEW, SHOP DRAWINGS WILL BE STAMPED AND RETURNED. DO NOT COMMENCE FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAMINED. IF FABRICATION BEGINS PRIOR TO EXAMINATION OF RETURNED SHOP DRAWINGS, THE COST ASSOCIATED WITH ANY REQUIRED REPLACEMENT OR REWORK OF FABRICATED ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- SHOP DRAWINGS MARKED "**REVIEWED**" CAN BE USED FOR FABRICATION, DO NOT MAKE ANY CHANGES OR ADDITIONS TO THESE DRAWINGS WITHOUT NOTIFYING THE CONSULTANT.
- SHOP DRAWINGS MARKED "**REVIEWED AS NOTED**" CAN BE USED FOR FABRICATION AFTER THE REVISIONS NOTED ARE IMPLEMENTED. DO NOT MAKE ANY FURTHER CHANGES OR ADDITIONS TO THESE DRAWINGS WITHOUT NOTIFYING THE CONSULTANT.
- SHOP DRAWINGS MARKED "**REVISE AND RESUBMIT**" REQUIRE SUBSTANTIAL REVISIONS AND MUST BE RESUBMITTED FOR ADDITIONAL REVIEW PRIOR TO FABRICATION. ALL CHANGES AND ADDITIONS TO THE PREVIOUS SUBMISSION TO BE CLEARLY IDENTIFIED ON THE RESUBMITTED DRAWINGS. ONLY THE IDENTIFIED CHANGES WILL BE REVIEWED ON RE-SUBMISSION.
- SHOP DRAWINGS MARKED "**REVIEWED FOR IMPACT ON BASE STRUCTURE ONLY**" SHOW WORKS WHICH ARE NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES BUT AFFECT BEHAVIOUR OF THE BASE STRUCTURE. WSP-S WILL NOT REVIEW THESE WORKS AND ASSUMES THAT THE INDICATED WEIGHTS AND ALL OTHER LOADS IMPOSED ON THE BASE STRUCTURE ARE CORRECTLY IDENTIFIED BY THE DESIGNER / SUPPLIER OF THESE ELEMENTS.
- DRAWINGS MARKED "**NOT REVIEWED**" SHOW WORKS WHICH ARE NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES.
- DO NOT USE SHOP DRAWINGS AS A MEANS TO PROPOSE SUBSTITUTIONS OR ALTERNATIVES TO THE MATERIALS, PRODUCTS OR DETAILS INDICATED IN CONTRACT DOCUMENTS. SUCH SHOP DRAWINGS WILL BE MARKED "REVISE AND RESUBMIT".
- PROVIDE FINAL RECORD DRAWINGS AFTER ALL CORRECTIONS ARE MADE.

FIELD REVIEW

- WSP-S WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND DO NOT MAKE WSP-S A GUARANTOR OF THE CONTRACTOR'S WORK.
- ASSIST WSP-S DURING FIELD REVIEW AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.
- CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- NOTIFY WSP-S 48 HOURS PRIOR TO CONCRETE POURS, BACKFILLING, AND COVERING UP THE STRUCTURE WITH FINISHES.

EXISTING STRUCTURE

- EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY HAROLD L. CLOW, DATED AUGUST 1977, MILL & ROSS ARCHITECTS, DATED MARCH 1983 AND CLELAND JARDINE, DATED APRIL 1995.
- DESIGN OF STRUCTURAL WORKS RELATED TO THE EXISTING BUILDING HAS BEEN CARRIED OUT AS FAR AS PRACTICAL, GIVEN LIMITED AVAILABILITY OF THE EXISTING DRAWINGS AND LIMITED RECORDS OF THE STRUCTURAL MODIFICATIONS LIKELY TO HAVE BEEN MADE THROUGH THE LIFE OF THE BUILDING. MODIFICATIONS TO THE PROPOSED STRUCTURAL FRAMING AND / OR DETAILS MAY BE REQUIRED IF EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE ASSUMED AND SHOWN ON DRAWINGS.
- EXISTING CONDITIONS ARE ASSUMED. SURVEY THE EXISTING STRUCTURE AFTER REMOVING FINISHES AND REPORT ANY VARIATIONS TO WSP-S BEFORE PROCEEDING WITH THE WORK.
- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.
- SCHEDULE WORK TO MINIMIZE EFFECT ON THE EXISTING BUILDING OPERATION. USE EQUIPMENT AND PROCEDURES TO MINIMIZE NOISE, DUST AND VIBRATIONS. SUBMIT PROPOSED SCHEDULE FOR REVIEW BY THE CONSULTANT AND THE OWNER.
- DO NOT PERMIT LOADS FROM CONCRETE FORMWORK TO BE TRANSMITTED TO ADJACENT EXISTING STRUCTURES.
- ALL DEMOLITION, SHORING, AND OTHER TEMPORARY WORKS TO BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED. PREPARE DRAWINGS SIGNED AND SEALED BY THAT ENGINEER SHOWING DEMOLITION PROCEDURE AND SEQUENCE AND ALL THE NECESSARY SHORING.
- UNDERTAKE CHIPPING, CUTTING, CORING, REPAIRS, PATCHING, AND REMOVAL OF DEBRIS. MAKE CUTS WITH THE PROPER SAWS AND BITS WHEN A CLEAN LINE IS REQUIRED.
- DO NOT ALTER MATERIAL PROPERTIES OF THE STRUCTURAL STEEL WHICH IS TO REMAIN BY CUTTING AND DEMOLITION PROCEDURE.
- MAKE GOOD ALL EXISTING WORK DISTURBED BY SHORING OPERATIONS, EXCAVATION AND OTHER CONSTRUCTION PROCEDURES.

FOUNDATIONS

- STRUCTURAL DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY LASCELLES ENGINEERING & ASSOCIATES, REPORT NUMBER 210156, DATED AUG 2021. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL FOUNDATION AND EARTHWORK INFORMATION.
- SET FOUNDATIONS ON HORIZONTAL UNDISTURBED SOIL CAPABLE OF SUPPORTING BEARING PRESSURE OF 75 kPa AT ULS AND 115 kPa AT SLS.
- PRIOR TO PLACING FOOTINGS, BEARING CAPACITY OF EACH FOOTING TO BE CONFIRMED IN WRITTEN REPORTS BY A GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR. GEOTECHNICAL ENGINEER TO CARRY MINIMUM \$1,000,000 IN LIABILITY INSURANCE. SUBMIT EACH REPORT IMMEDIATELY TO WSP-S.
- IF THE ASSUMED BEARING RESISTANCE IS NOT OBTAINED AT THE UNDERSIDE OF FOOTING ELEVATION INDICATED ON DRAWINGS, EXTEND EXCAVATION UNTIL COMPETENT SOIL IS REACHED, AND PROVIDE LEAN CONCRETE FILL (OR CONCRETE SAME AS SPECIFIED FOR THE FOOTING) TO UNDERSIDE OF FOOTING. DO NOT DROP DOWELS; MAINTAIN THE SPECIFIED PROJECTION REQUIRED FOR LAPS.
- FOR FROST PROTECTION, MINIMUM DISTANCE FROM FINISHED GRADE TO UNDERSIDE OF FOUNDATIONS TO BE NOT LESS THAN 1800 OR PROVIDE EQUIVALENT INSULATION, WHERE UNDERSIDES OF WALLS, GRADE BEAMS, OR PILE CAPS ARE NOT BELOW THE FROST PROTECTION DEPTH, PROVIDE FROST CUSHION BETWEEN SOIL AND STRUCTURE WHERE FROST ACTION MAY CAUSE UPLIFT.
- UNLESS OTHERWISE NOTED, CENTRE FOOTINGS, PIERS, PILES, AND PILE CAPS UNDER CENTROID OF COLUMNS. WHERE THERE ARE NO COLUMNS ABOVE, CENTRE UNDER WALLS OR GRADE BEAMS.
- PLACE ANCHOR RODS AND DOWELS BEFORE CONCRETE IS CAST. USE TEMPLATES TO KEEP IN POSITION.
- LOCATE ALL EXISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION AND/OR PILE INSTALLATION.

- THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR TRENCHES NOT TO EXCEED A RISE OF 7 IN A RUN OF 10. DO NOT EXPOSE PILE OR UNDERMINE PILE CAP WHEN EXCAVATING FOR TRENCHES UNLESS APPROVED IN WRITING BY WSP-S.
- KEEP EXCAVATION DRAINED AND FREE OF WATER AT ALL TIMES.
- PROTECT FOOTINGS, PIERS, PILE TOPS, PILE CAPS, GRADE BEAMS, FOUNDATION WALLS, SLABS-ON-GRADE AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION. DO NOT POUR CONCRETE AGAINST FROZEN EARTH.
- DO NOT PLACE CONCRETE IN WATER OR ON FROZEN SOIL.

CONCRETE

- CONFORM TO CSA A23.1 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
- CONCRETE IS SPECIFIED PER ALTERNATIVE 1 - PERFORMANCE SPECIFICATION, AS OUTLINED IN CAN/CSA A23.1. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
- THE CONCRETE SUPPLIER TO BE CERTIFIED BY THE READY MIXED CONCRETE ASSOCIATION OF ONTARIO
- CONCRETE TO BE NORMAL DENSITY (MIN. 2300 kg/m^3) UNLESS NOTED OTHERWISE.
- CEMENT TO BE PORTLAND CEMENT TYPE GU OR GUL, UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS. CEMENT TO CONFORM TO CSA A3000.
- AGGREGATE TO CONFORM TO CSA A23.1 / A23.2. DO NOT USE RECYCLED CONCRETE AS AGGREGATE.
- CONCRETE ADMIXTURES SHALL NOT CONTAIN CHLORIDES.
- SUBMIT CONCRETE MIX DESIGNS TO WSP.
- EXTERIOR APPLICATIONS:
 - EXPOSURE CLASS: C1
 - MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 35 MPa
 - NOMINAL SIZE OF COARSE AGGREGATE: $20 (3/4")$
 - AIR ENTRAINMENT: REQUIRED
- PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CAN/CSA-A23.1 WHENEVER THE OUTDOOR TEMPERATURE IS GREATER THAN 27°C .
- PROTECT CONCRETE FROM FREEZING. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CAN/CSA-A23.1 WHENEVER OUTDOOR TEMPERATURE IS LESS THAN $+5^\circ\text{C}$. ALL INSULATED COVERS, HEATERS, AND OTHER MATERIALS NEEDED TO PROTECT CONCRETE TO BE ON HAND PRIOR TO POUR. DELIVER CONCRETE AT A TEMPERATURE BETWEEN $+15^\circ\text{C}$ AND $+27^\circ\text{C}$. ENSURE A MINIMUM CONCRETE TEMPERATURE OF 10° IS MAINTAINED THROUGHOUT THE CURING PERIOD (MINIMUM 3 DAYS).
- FORMWORK DESIGN, MATERIAL, FABRICATION, AND ERECTION TO CONFORM TO CSA S269.1
- FORMWORK MATERIAL TO BE NEW EXTERIOR PLYWOOD CONFORMING TO CSA O121, EXCEPT FOR ROUGH CONCRETE IN UNEXPOSED LOCATIONS (SUCH AS FOUNDATIONS) WHERE USED MATERIAL IS ACCEPTABLE.
- PROVIDE $25 (1")$ CHAMFER STRIPS ON EXTERNAL CORNERS AND $25 (1")$ FILLETS AT INTERIOR CORNERS.
- RIGID INSULATION TO BE EXTRUDED POLYSTYRENE BOARD CONFORMING TO ASTM C578, STRUCTURAL GRADE, WITH A COMPRESSIVE STRENGTH OF 275 kPa (40 psi).
- CONVEY CONCRETE FROM TRUCK TO FINAL LOCATION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF MATERIAL. MAXIMUM FREE FALL NOT TO EXCEED 1.5m ($5\text{'-}0"$). CONSOLIDATE CONCRETE USING MECHANICAL VIBRATORS.
- CURE CONCRETE SURFACES NOT IN CONTACT WITH FORMS IN ACCORDANCE WITH A23.1 / A23.2. BY APPLICATION OF A CURING-SEALING COMPOUND CONFORMING TO ASTM C309 IMMEDIATELY AFTER DISAPPEARANCE OF SURFACE WATER SHEEN. ENSURE CURING-SEALING COMPOUND IS COMPATIBLE WITH APPLIED FINISHES.

CONCRETE REINFORCEMENT

- CONFORM TO CSA A23.1 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
- REINFORCEMENT — DEFORMED BAR REINFORCEMENT CONFORMING TO CSA G30.18 GRADE 400R OR 400W. USE 400W WHERE BARS ARE SHOWN TO BE WELDED.
- ACCESSORIES, BAR SUPPORTS, AND TIES TO CONFORM TO REINFORCING STEEL INSTITUTE OF CANADA (RSIC) MANUAL OF STANDARD PRACTICE AND CSA A23.1 / A23.2.
- ALL REINFORCING BAR SIZES ARE METRIC; "M" IS NOT NECESSARILY MARKED AFTER A BAR SIZE. FOR EXAMPLE, 10-15B NOTED ON PLAN INDICATES 10 BARS OF 15M DIAMETER, PLACED AT BOTTOM.
- SUBMIT SHOP DRAWINGS FOR REINFORCEMENT DETAILED IN ACCORDANCE WITH THE RSIC MANUAL OF STANDARD PRACTICE. SUBMIT PLANS AND DETAILS NECESSARY TO FABRICATE, PLACE, AND REVIEW REINFORCEMENT.
- ALL REBAR HOOKS TO BE STANDARD LENGTH 90° OR 180° HOOKS. REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH. BARS MARKED CONTINUOUS TO BE TERMINATED IN STANDARD HOOKS AT ENDS AND SPLICED USING CLASS B LAPS.
- FIELD BENDING OF BARS IS NOT PERMITTED UNLESS INDICATED OR APPROVED BY WSP-S. APPROVED FIELD BENDING TO BE DONE WITHOUT THE USE OF HEAT, THROUGH APPLICATION OF SLOW AND STEADY PRESSURE. REPLACE BARS WITH CRACKS OR SPLITS.
- ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY.
- WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, MINIMUM CONCRETE COVER TO REINFORCING BARS CLOSEST TO THE CONCRETE SURFACE TO BE $75 (3")$.
- FOR CLASS C-1 CONCRETE, MINIMUM COVER TO BE $60 (2 \frac{1}{2}')$ EXCEPT FOR SLABS PROTECTED BY MEMBRANE WHERE THE COVER SHALL BE $40 (1 \frac{1}{2}')$ TO THE TOP BARS AND $30 (1 \frac{1}{4}')$ TO THE BOTTOM BARS.
- ENSURE COVER TO REINFORCEMENT IS MAINTAINED DURING CONCRETE POUR.
- WOOD FLOAT AND BROOM FINISH EXTERIOR SLABS.

POST-INSTALLED ANCHORS AND DOWELS

- WHERE ADHESIVE CONCRETE ANCHORS (ACA) ARE NOTED ON DRAWINGS, PROVIDE HILTI HIT-HY200 ADHESIVE ANCHORING SYSTEM WITH HILTI HIT-Z ANCHOR RODS OR APPROVED EQUIVALENT. EFFECTIVE EMBEDMENT LENGTHS AS FOLLOWS:
 $10 (3/8")$ DIAMETER — $86 (3-3/8")$ EMBEDMENT
 $12 (1/2")$ DIAMETER — $114 (4-1/2")$ EMBEDMENT
 $16 (5/8")$ DIAMETER — $143 (5-5/8")$ EMBEDMENT
 $19 (3/4")$ DIAMETER — $171 (6-3/4")$ EMBEDMENT

DRAWING LIST

ST-L-101	GENERAL NOTES
ST-L-102	GENERAL NOTES
ST-L-105	TYPICAL DETAILS
ST-L-106	TYPICAL DETAILS
ST-L-107	PROJECT DETAILS
ST-L-200	PARTIAL ROOF PART PLAN 1
ST-L-201	PARTIAL ROOF PART PLAN 2
ST-L-202	OVERALL ROOF PLAN
ST-L-203	PV NEW WORK PARTIAL PLAN
ST-L-204	BRONZE SIGN FOUNDATION PLAN AND SECTION DETAILS
ST-L-400	SECTIONS

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PROJECT NUMBER: CAO060380.9055

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:

DISCLAIMER:

THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. 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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ISSUED FOR - REVISION:

IS	RE	DATE	DESCRIPTION
5		2026/04/27	ISSUED TO UCDSB FOR ADDENDUM 01
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:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTING SCALE. <div>25mm</div>
DESIGNED BY: MMS	
DRAWN BY: MM	
CHECKED BY: IF	


DISCIPLINE:	STRUCTURAL
TITLE:	
GENERAL NOTES	
SHEET NUMBER:	ST-L-101
SHEET #:	1 OF 4
ISSUE:	REV #
ISSUED TO UCDSB FOR ADDENDUM 01	
DATE OF:	2025/04/27
5	

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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
ADDL	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
BOP	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
BLL	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)	O/C	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	OVSJ	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
CJL	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 SPICE	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	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 GIRD	SL	SLAB, SHEL F ANGLE	WWF	WELDED WIRE FABRIC
DMA	DRILLED MASONRY ANCHOR, SEE GENERAL NOTES	KB	KNEE BRACING	SLS	SHORT LEG BACK TO BACK	ZRP	ZINC RICH PAINT
DN	DOWN	(L)	LOW BEAM	SOG	SERVICEABILITY LIMIT STATE	Yc	CONCRETE DENSITY
DNW	DOUBLE NUT AND WASHER	2L	BACK TO BACK ANGLES		SLAB-ON-GRADE		

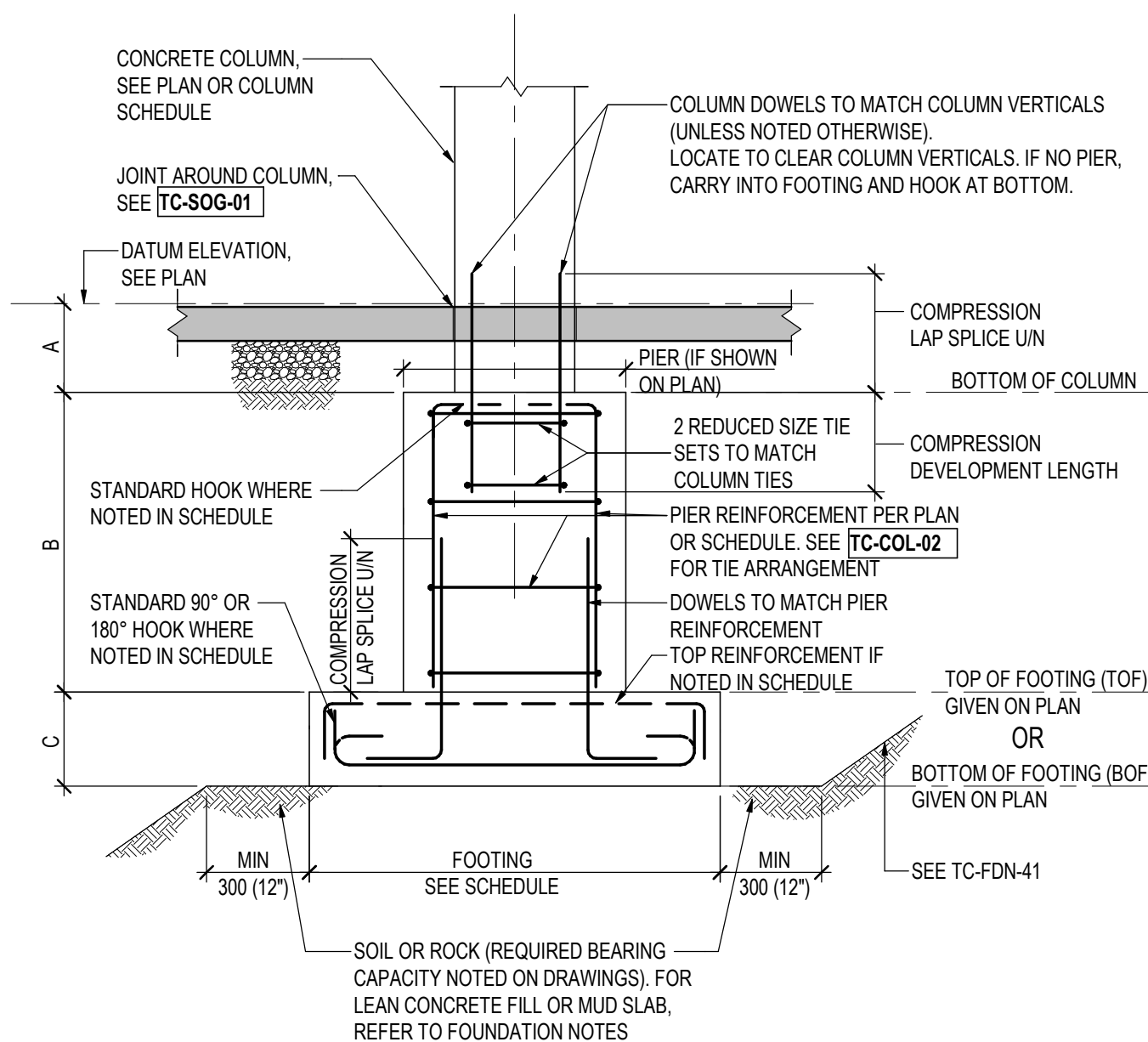
LOADING ABBREVIATIONS

TG-ABBR-02

Af	FACTORED AXIAL LOAD IN kN (+ INDICATES TENSION, - INDICATES COMPRESSION)
Cf	FACTORED COMPRESSION IN kN
fc	COMPRESSIVE STRENGTH OF CONCRETE, IN MPa
fy	YIELD STRENGTH IN MPa
Mf	FACTORED MOMENT IN kNm
Mfx	FACTORED MOMENT ABOUT X-X (STRONG) AXES IN kNm
Mfy	FACTORED MOMENT ABOUT Y-Y (WEAK) AXES IN kNm
MPL	MASONRY PARTITION DEAD LOAD IN kNm
MTf	FACTORED TORSION IN kNm
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

FOOTING AT CONCRETE COLUMN

TC-FDN-01

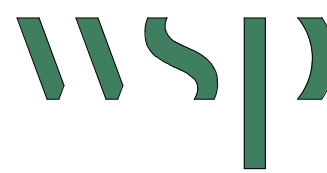


- A - DISTANCE FROM DATUM ELEVATION TO BOTTOM OF COLUMN GIVEN ON COLUMN SCHEDULE
(UNLESS TOP OF PIER ELEVATION IS GIVEN ON DRAWINGS).
IF NO PIERS, CARRY COLUMNS TO TOP OF FOOTING.
- B - DEPTH OF PIER (WHERE APPLICABLE) DETERMINED FROM BOTTOM OF COLUMN AND
TOP / BOTTOM OF FOOTING ELEVATION.
- C - DEPTH OF FOOTING GIVEN ON PLAN OR FOOTING SCHEDULE.

ARCHITECTURE | 49

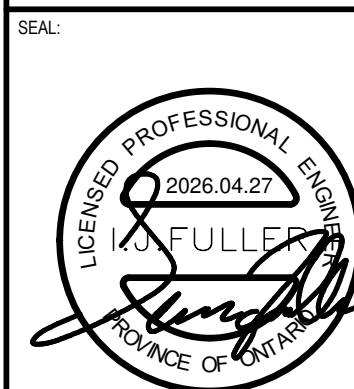
1345 ROSEMOUNT AVENUE
CORNWALL, ONTARIO, CANADA K6J 3E5
TEL: 613-933-9604 | FAX: 613-936-0335 | ARCHITECTURE49.COM

CONSULTANT - SUB CONSULTANT:



300-2611 QUEENSVIEW DRIVE
OTTAWA ONTARIO CANADA K2B 8K2
TEL: 1-613-829-2800 | FAX: 1-613-829-8299
WWW.WSP.COM

PROJECT NUMBER: CA0060380.9055



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:

DISCLAIMER:

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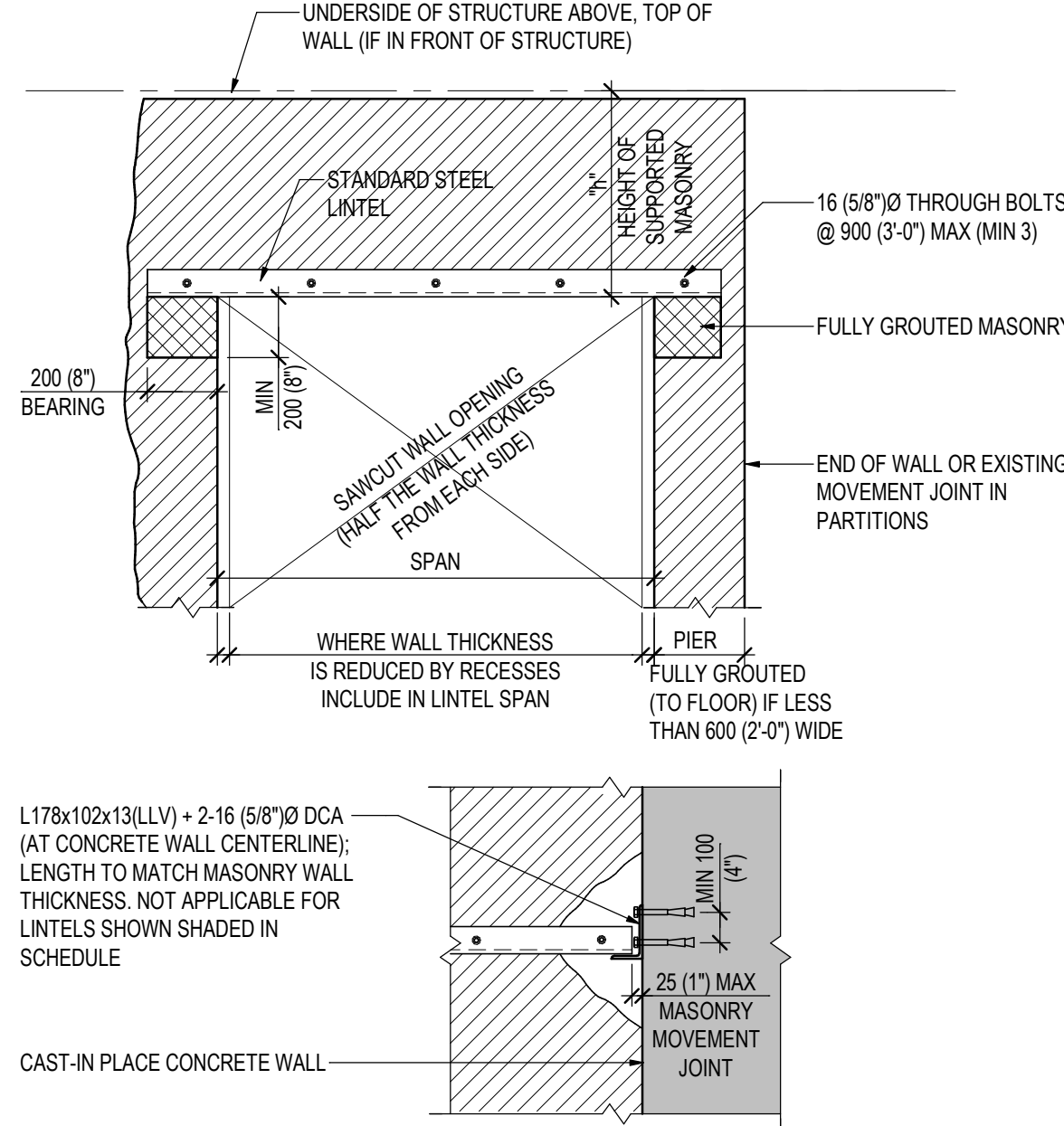
IS	RE	DATE	DESCRIPTION
5		2026/04/27	ISSUED TO UCDSB FOR ADDENDUM 01
4		2026/04/15	ISSUED TO UCDSB FOR TENDER
3		2026/02/27	ISSUED TO UCDSB FOR 90% REVIEW
2		2026/01/12	RE-ISSUED TO UCDSB FOR 60% REVIEW
1		2025/12/05	ISSUED TO UCDSB FOR 60% REVIEW

PROJECT NO:	CA0060380.9055	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	25mm			
DISCIPLINE:	STRUCTURAL				
TITLE:	TYPICAL DETAILS				
SHEET NUMBER:	ST-L-105				
SHEET #:	2	OF	4		
ISSUE:	ISSUED TO UCDSB FOR ADDENDUM 01				
DATE OF:	2025/04/27	REV #:	5		

STANDARD STEEL LINTELS IN EXISTING NON LOAD BEARING MASONRY WALLS

TM-WALL-14

NOTES:
1. THIS DETAIL APPLIES FOR HOLLOW MASONRY WALLS AND FOR MASONRY WALLS WITH GROUTED CORES SPACED NOT CLOSER THAN 800 (2'-8").
2. IF PREFERRED, TYPICAL DETAILS FOR LINTELS IN NEW WALLS CAN BE USED INSTEAD OF THIS DETAIL.
3. STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.
4. SEE PLANS FOR SPECIAL LINTELS.
5. 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.
6. GROUT MASONRY AT SUPPORTS PRIOR TO LINTEL INSTALLATION.
7. PROVIDE STEEL PACKING AS REQUIRED TO PROVIDE EVEN BEARING OF STEEL LINTELS.
8. DESIGN AND PROVIDE TEMPORARY SHORING AS REQUIRED.
9. FOR LINTELS WHICH ARE SHADED IN SCHEDULE, SPECIAL DETAIL FOR CONNECTION TO CONCRETE WALL IS REQUIRED.
10. FOR FIRE PROTECTIONS OF LINTELS LONGER THAN 3000 (10'-0"), SEE ARCHITECTURAL DRAWINGS AND SPECS.



UNDERSIDE OF STRUCTURE ABOVE, TOP OF WALL (IF IN FRONT OF STRUCTURE)

STANDARD STEEL LINTEL

16 (5/8") Ø THROUGH BOLTS @ 900 (3'-0") MAX (MIN 3)

FULLY GROUTED MASONRY

END OF WALL OR EXISTING MOVEMENT JOINT IN PARTITIONS

PIER FULLY GROUTED (TO FLOOR) IF LESS THAN 600 (2'-0") WIDE

WHERE WALL THICKNESS IS REDUCED BY RECESSES INCLUDE IN LINTEL SPAN

SAW CUT WALL OPENING (HALF THE WALL THICKNESS FROM EACH SIDE)

SPAN

MIN 200 (8") BEARING

MIN 200 (8")

L178x102x13(LLV) + 2-16 (5/8") Ø DCA (AT CONCRETE WALL CENTERLINE); LENGTH TO MATCH MASONRY WALL THICKNESS. NOT APPLICABLE FOR LINTELS SHOWN SHADED IN SCHEDULE

25 (1") MAX MASONRY MOVEMENT JOINT

CAST-IN PLACE CONCRETE WALL

WALL THICKNESS	SPAN	HEIGHT OF SUPPORTED MASONRY "h"			DETAIL
		h ≤ 1200 (4'-0")	1200 (4'-0") < h ≤ 2600 (8'-4")	2600 (8'-4") < h ≤ 4800 (16'-0")	
140 (6")	UP TO 1200 (4'-0")	2-L64x64x6.4	2-L64x64x6.4	2-L64x64x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-L64x64x6.4	N/A	N/A	
	1800 (6'-0") TO 2400 (8'-0")	2-L76x64x7.9	N/A	N/A	
	2400 (8'-0") TO 3000 (10'-0")	2-L89x64x9.5	N/A	N/A	
	3000 (10'-0") TO 3600 (12'-0")	N/A	N/A	N/A	
190 (8")	UP TO 1200 (4'-0")	2-L89x89x6.4	2-L89x89x6.4	2-L89x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-L89x89x6.4	2-L89x89x6.4	2-L102x89x7.9	
	1800 (6'-0") TO 2400 (8'-0")	2-L89x89x6.4	2-L102x89x7.9	2-L127x89x7.9	
	2400 (8'-0") TO 3000 (10'-0")	2-L102x89x7.9	2-L152x89x7.9	2-L152x89x9.5	
	3000 (10'-0") TO 3600 (12'-0")	2-L127x89x7.9	2-L152x89x9.5	N/A	
240 (10")	UP TO 1200 (4'-0")	2-L102x102x6.4	2-L102x102x6.4	2-L102x102x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-L102x102x6.4	2-L102x102x6.4	2-L102x102x7.9	
	1800 (6'-0") TO 2400 (8'-0")	2-L102x102x6.4	2-L102x102x9.5	2-L152x102x7.9	
	2400 (8'-0") TO 3000 (10'-0")	2-L102x102x9.5	2-L152x102x7.9	2-L178x102x9.5	
	3000 (10'-0") TO 3600 (12'-0")	2-L152x102x7.9	2-L178x102x9.5	N/A	
290 (12")	UP TO 1200 (4'-0")	2-L152x152x6.4	2-L152x152x6.4	2-L152x152x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-L152x152x6.4	2-L152x152x6.4	2-L152x152x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-L152x152x6.4	2-L152x152x6.4	2-L152x152x6.4	
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	3000 (10'-0") TO 3600 (12'-0")	2-L152x152x6.4	2-L152x152x9.5	N/A	

SIDLAP CONNECTION REMEDIAL DETAIL

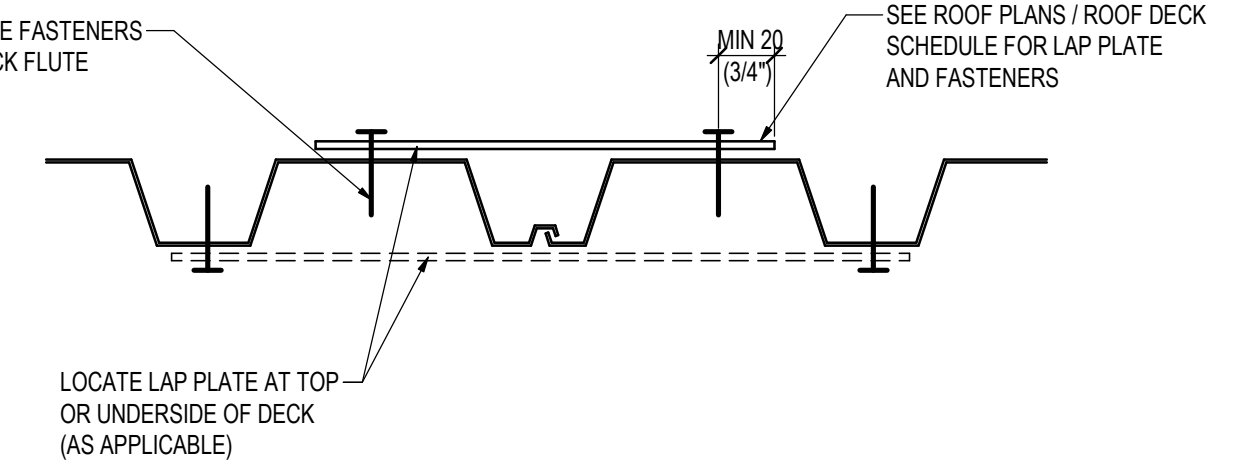
TS-DECK-23

CENTRE FASTENERS AT DECK FLUTE

LOCATE LAP PLATE AT TOP OR UNDERSIDE OF DECK (AS APPLICABLE)

MIN 20 (3/4")

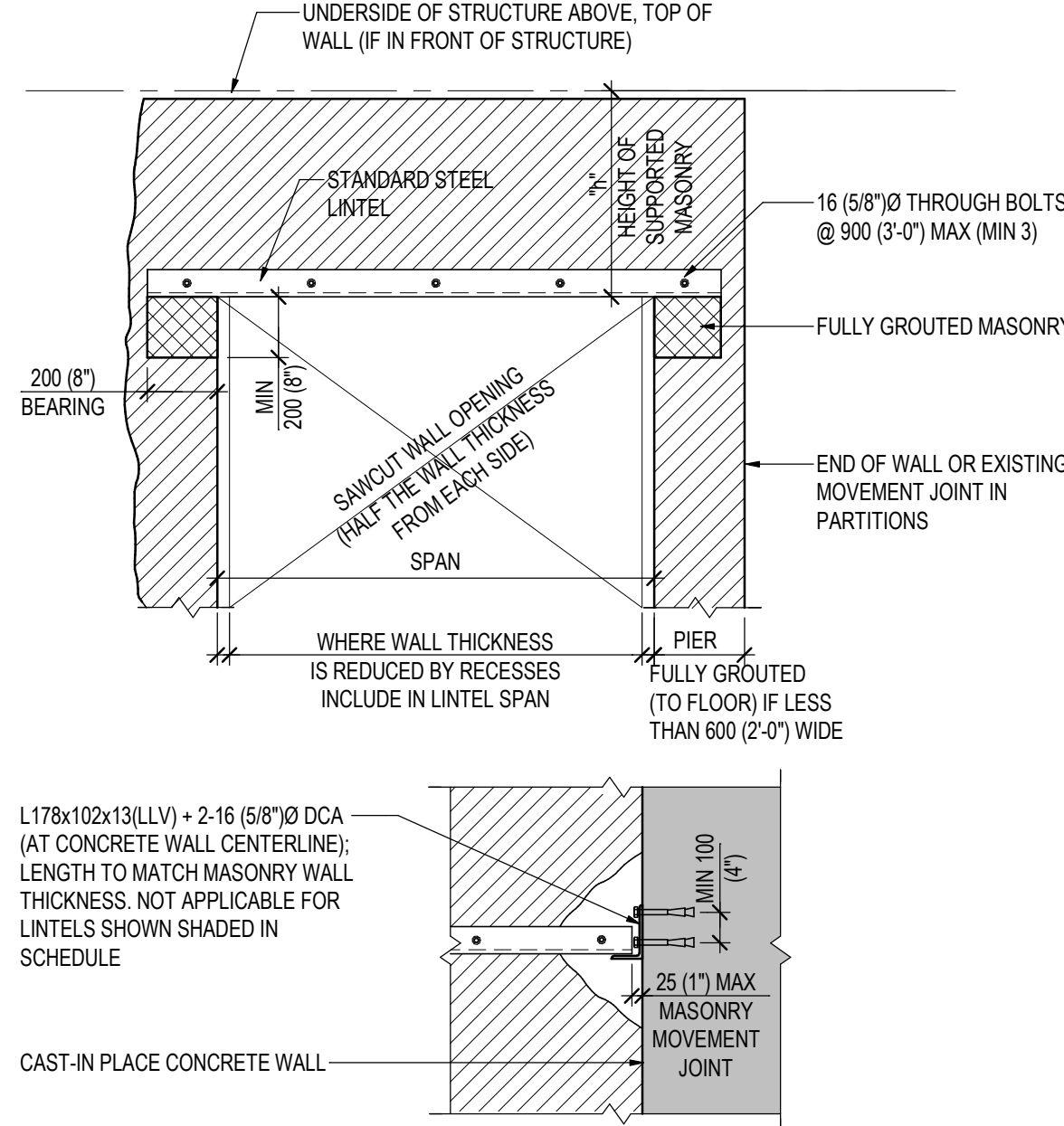
SEE ROOF PLANS / ROOF DECK SCHEDULE FOR LAP PLATE AND FASTENERS



STANDARD STEEL LINTELS IN EXISTING NON LOAD BEARING MASONRY WALLS

TM-WALL-14

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UNDERSIDE OF STRUCTURE ABOVE, TOP OF WALL (IF IN FRONT OF STRUCTURE)

STANDARD STEEL LINTEL

16 (5/8") Ø THROUGH BOLTS @ 900 (3'-0") MAX (MIN 3)

FULLY GROUTED MASONRY

END OF WALL OR EXISTING MOVEMENT JOINT IN PARTITIONS

PIER FULLY GROUTED (TO FLOOR) IF LESS THAN 600 (2'-0") WIDE

WHERE WALL THICKNESS IS REDUCED BY RECESSES INCLUDE IN LINTEL SPAN

SAW CUT WALL OPENING (HALF THE WALL THICKNESS FROM EACH SIDE)

SPAN

MIN 200 (8") BEARING

MIN 200 (8")

L178x102x13(LLV) + 2-16 (5/8") Ø DCA (AT CONCRETE WALL CENTERLINE); LENGTH TO MATCH MASONRY WALL THICKNESS. NOT APPLICABLE FOR LINTELS SHOWN SHADED IN SCHEDULE

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	1800 (6'-0") TO 2400 (8'-0")	2-L76x64x7.9	N/A	N/A	
	2400 (8'-0") TO 3000 (10'-0")	2-L89x64x9.5	N/A	N/A	
	3000 (10'-0") TO 3600 (12'-0")	N/A	N/A	N/A	
190 (8")	UP TO 1200 (4'-0")	2-L89x89x6.4	2-L89x89x6.4	2-L89x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-L89x89x6.4	2-L89x89x6.4	2-L102x89x7.9	
	1800 (6'-0") TO 2400 (8'-0")	2-L89x89x6.4	2-L102x89x7.9	2-L127x89x7.9	
	2400 (8'-0") TO 3000 (10'-0")	2-L102x89x7.9	2-L152x89x7.9	2-L152x89x9.5	
	3000 (10'-0") TO 3600 (12'-0")	2-L127x89x7.9	2-L152x89x9.5	N/A	
240 (10")	UP TO 1200 (4'-0")	2-L102x102x6.4	2-L102x102x6.4	2-L102x102x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-L102x102x6.4	2-L102x102x6.4	2-L102x102x7.9	
	1800 (6'-0") TO 2400 (8'-0")	2-L102x102x6.4	2-L102x102x9.5	2-L152x102x7.9	
	2400 (8'-0") TO 3000 (10'-0")	2-L102x102x9.5	2-L152x102x7.9	2-L178x102x9.5	
	3000 (10'-0") TO 3600 (12'-0")	2-L152x102x7.9	2-L178x102x9.5	N/A	
290 (12")	UP TO 1200 (4'-0")	2-L152x152x6.4	2-L152x152x6.4	2-L152x152x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-L152x152x6.4	2-L152x152x6.4	2-L152x152x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-L152x152x6.4	2-L152x152x6.4	2-L152x152x6.4	
	2400 (8'-0") TO 3000 (10'-0")	2-L152x152x6.4	2-L152x152x6.4	N/A	
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SIDLAP CONNECTION REMEDIAL DETAIL

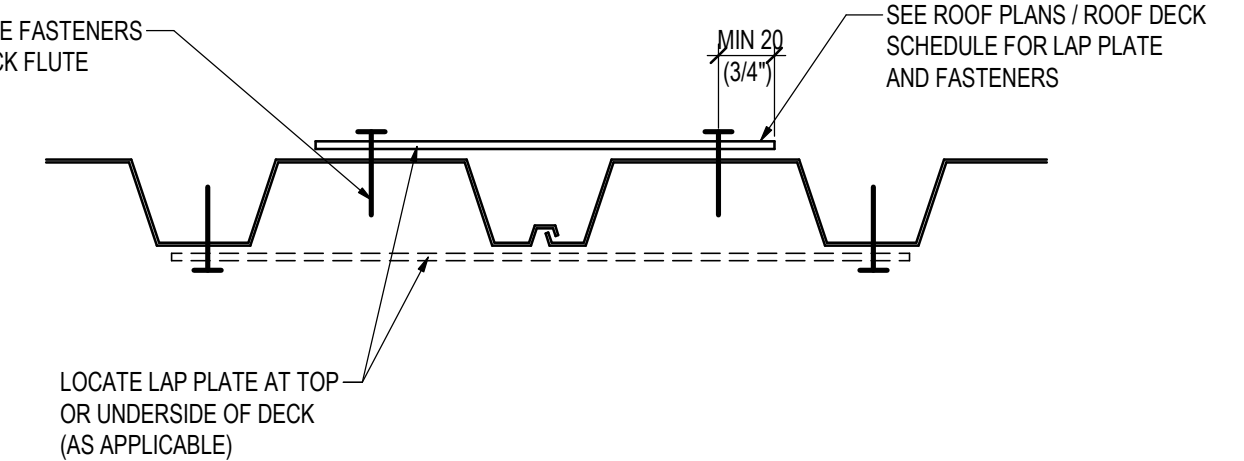
TS-DECK-23

CENTRE FASTENERS AT DECK FLUTE

LOCATE LAP PLATE AT TOP OR UNDERSIDE OF DECK (AS APPLICABLE)

MIN 20 (3/4")

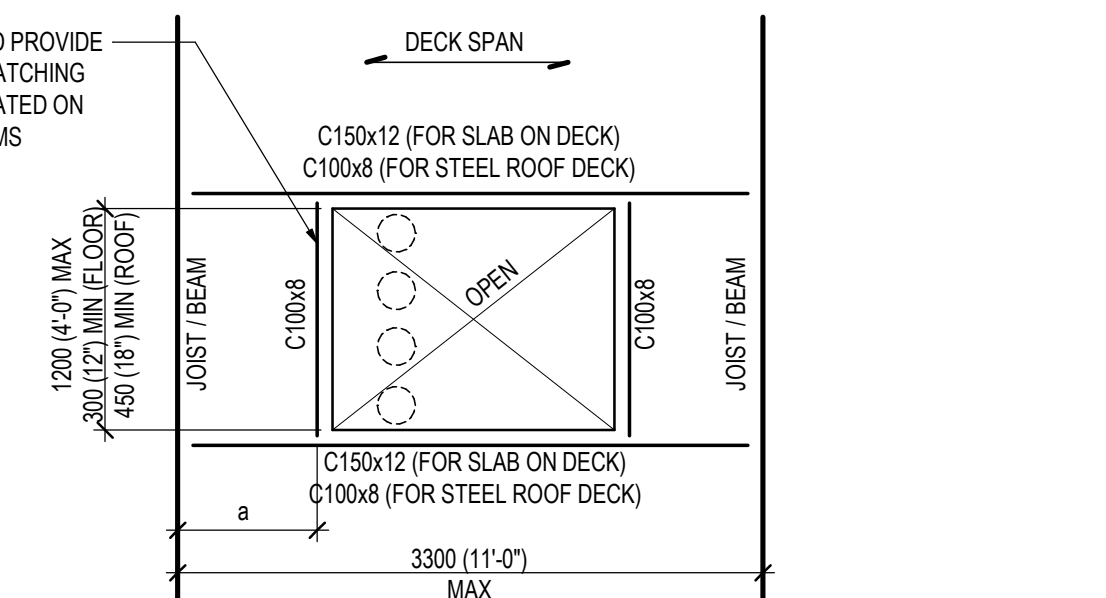
SEE ROOF PLANS / ROOF DECK SCHEDULE FOR LAP PLATE AND FASTENERS



ADDITIONAL FRAMING AT DECK OPENINGS

TS-DECK-04

IF $a \leq 300$ (12"), OMIT C AND PROVIDE ANGLE OR BENT PLATE (MATCHING THE DECK THICKNESS) SEATED ON TOP OF SUPPORTING BEAMS



DECK SPAN

JOIST BEAM

C150x12 (FOR SLAB ON DECK)

C100x8 (FOR STEEL ROOF DECK)

1200 (4'-0") MAX

300 (12") MIN (EL 0.000)

450 (18") MIN (ROOF)

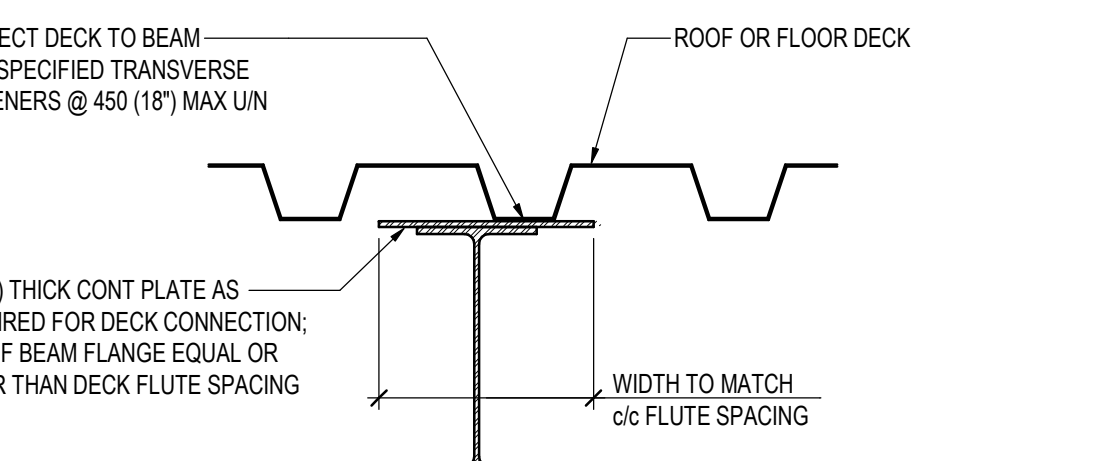
3300 (11'-0") MAX

NOTES:
1. DECK SUPPLIER TO DESIGN AND PROVIDE REINFORCEMENT FOR STEEL ROOF DECK OPENINGS LESS THAN 450 (18")
2. SEE **TS-DECK-03** FOR REINFORCING OF SLAB ON DECK OPENINGS SMALLER THAN 300 (12")
3. MULTIPLE SLEEVES PLACED IN LINE PERPENDICULAR TO DECK SPAN WITH LESS THAN ONE WHOLE DECK FLUTE (COMPLETE WITH TWO WEBS) REMAINING BETWEEN THEM SHOULD BE TRATED AS A SINGLE OPENING.
4. SEE **TS-DECK-22** FOR ROOF DECK EDGE DETAILS.

STEEL DECK SUPPORT AT BEAM PARALLEL OR ANGLED TO DECK SPAN

TS-DECK-15

CONNECT DECK TO BEAM WITH SPECIFIED TRANSVERSE FASTENERS @ 450 (18") MAX UN



ROOF OR FLOOR DECK

6 (1/4") THICK CONT PLATE AS REQUIRED FOR DECK CONNECTION; OMIT IF BEAM FLANGE EQUAL OR WIDER THAN DECK FLUTE SPACING

WIDTH TO MATCH c/c FLUTE SPACING

ROOF DECK EDGE DETAILS

TS-DECK-22

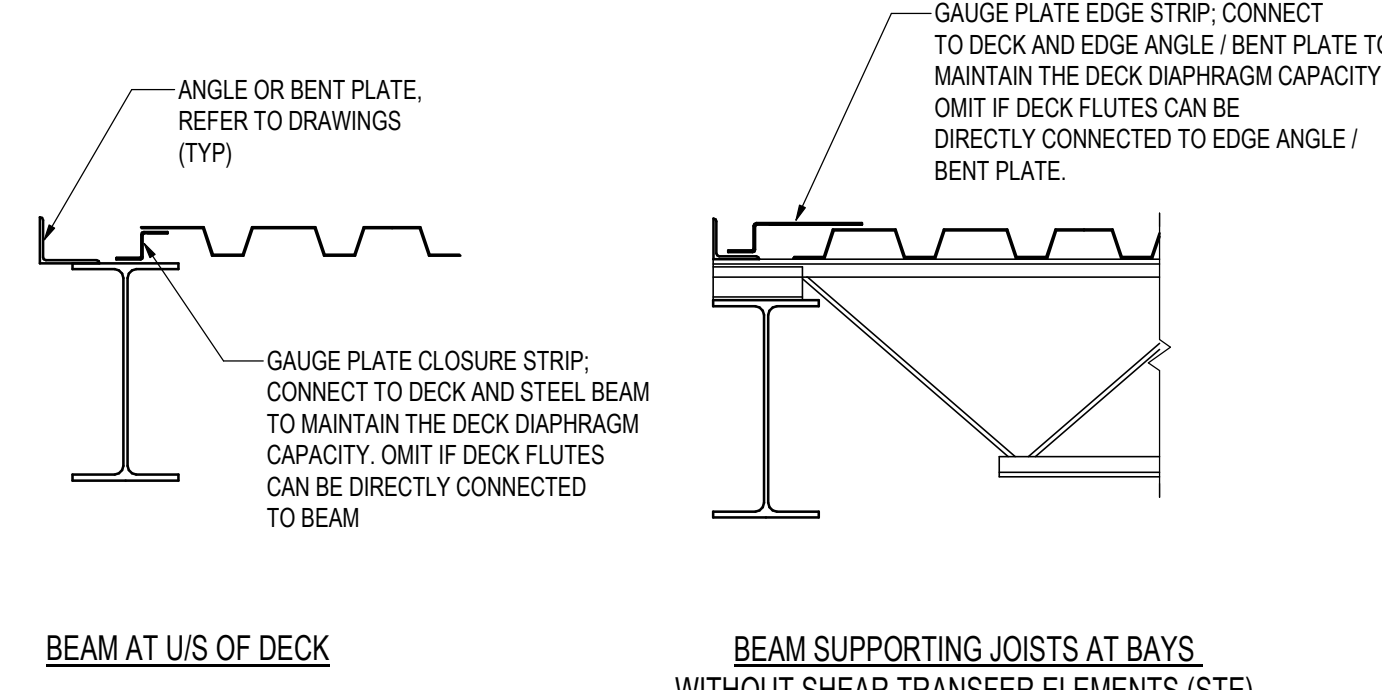
ANGLE OR BENT PLATE, REFER TO DRAWINGS (TYP)

GAUGE PLATE EDGE STRIP: CONNECT TO DECK AND EDGE ANGLE / BENT PLATE TO MAINTAIN THE DECK DIAPHRAGM CAPACITY. OMIT IF DECK FLUTES CAN BE DIRECTLY CONNECTED TO EDGE ANGLE / BENT PLATE.

GAUGE PLATE CLOSURE STRIP: CONNECT TO DECK AND STEEL BEAM TO MAINTAIN THE DECK DIAPHRAGM CAPACITY. OMIT IF DECK FLUTES CAN BE DIRECTLY CONNECTED TO BEAM

BEAM AT U/S OF DECK

BEAM SUPPORTING JOISTS AT BAYS WITHOUT SHEAR TRANSFER ELEMENTS (STE)



ROOF DECK EDGE DETAILS

TS-DECK-22

CONNECT EDGE ANGLE / BENT PLATE TO STE TO TRANSFER DIAPHRAGM SHEAR.

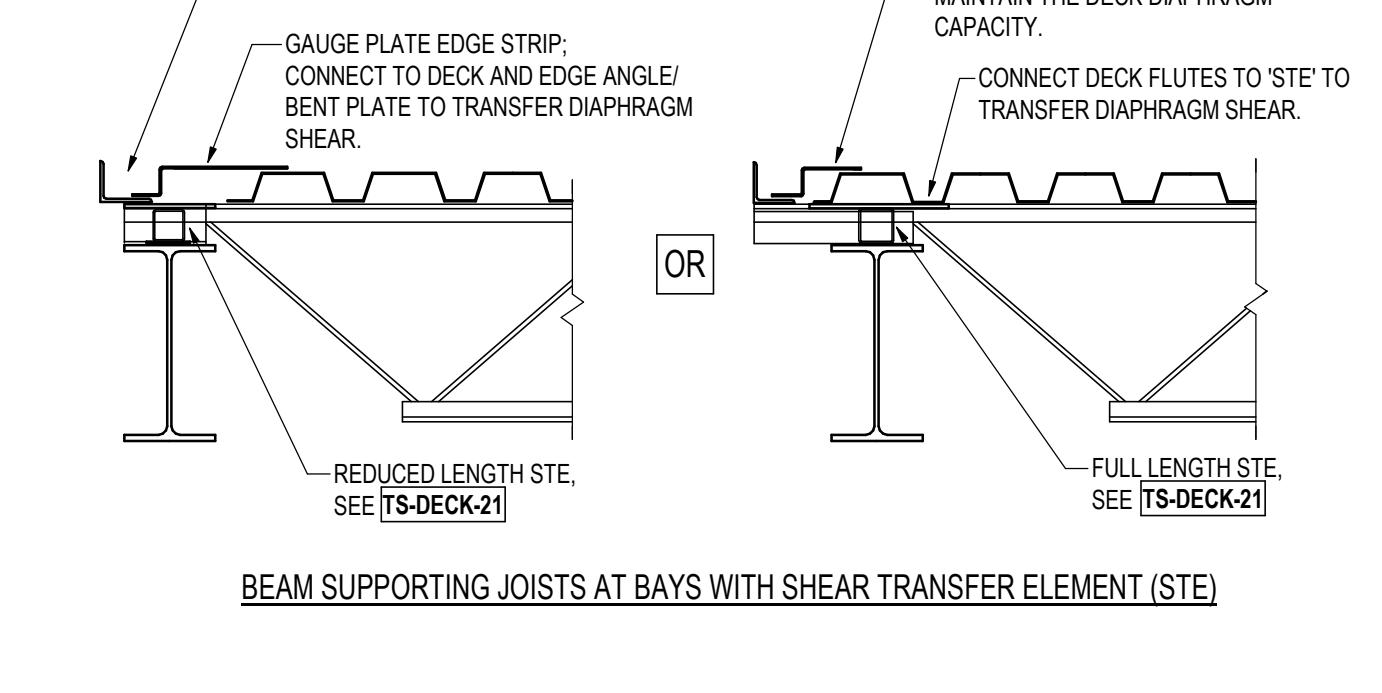
GAUGE PLATE EDGE STRIP: CONNECT TO DECK AND EDGE ANGLE / BENT PLATE TO MAINTAIN THE DECK DIAPHRAGM CAPACITY.

CONNECT DECK FLUTES TO 'STE' TO TRANSFER DIAPHRAGM SHEAR.

REDUCED LENGTH STE. SEE **TS-DECK-21**

FULL LENGTH STE. SEE **TS-DECK-21**

BEAM SUPPORTING JOISTS AT BAYS WITH SHEAR TRANSFER ELEMENT (STE)



CONCRETE PAD FOR EXTERIOR MECHANICAL UNITS

TC-SOG-62

MECHANICAL UNIT - MAX WEIGHT OVER THE FOOTPRINT NOT TO EXCEED 4.8 kPa (100 lb/ft²)

150 (6") SLAB REINFORCED WITH 15@400 (16") TEW (HH) ALTERNATIVE: INCREASE SLAB THICKNESS THROUGHOUT, ADD 15@400 (16") BEW

MIN 150 (6") ALL AROUND COORDINATE WITH MECHANICAL AND SEISMIC RESTRAINT SUPPLIERS (WHERE APPLICABLE)

75 (3")

300 (12") MIN

200 (8") MIN

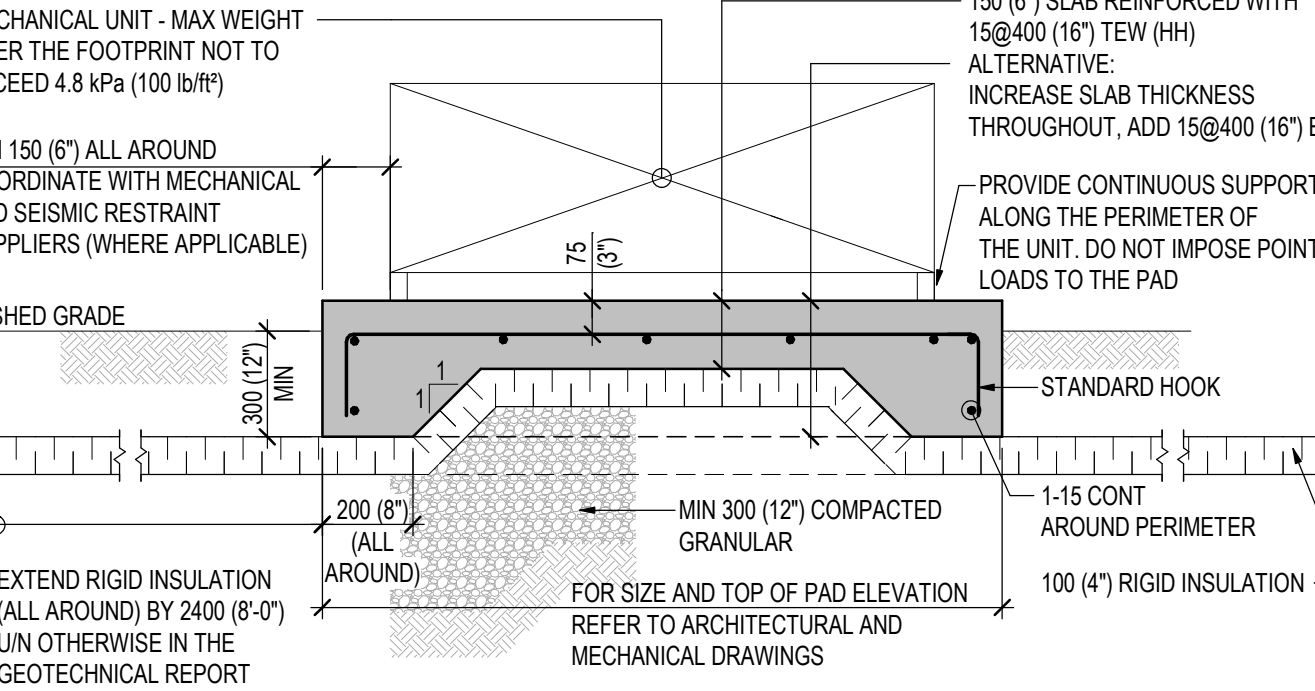
1-15 CONT AROUND PERIMETER

100 (4") RIGID INSULATION

EXTEND RIGID INSULATION (ALL AROUND) BY 2400 (8'-0") UN OTHERWISE IN THE GEOTECHNICAL REPORT

FOR SIZE AND TOP OF PAD ELEVATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS

NOTE: ALTERNATIVE FROST HEAVE PROTECTION MAY BE ACCEPTABLE IF SPECIFIED BY GEOTECHNICAL CONSULTANT



TIES FOR CONCRETE COLUMNS, WALLS, BORED CONCRETE PILES, CAPS AND PIERS REINFORCED AS COLUMNS

TC-COL-02

4 BARS

6 BARS

8 BARS

10 BARS

12 BARS

12 BARS

14 BARS

14 BARS

16 BARS

16 BARS

MIN 150 (6") STAGGERED AROUND

NARROW COLUMN (OR WALL)

ROUND

MORE THAN 16 BARS

NOTES:
1. DRAWINGS SHOW SIZE AND SPACING OF TIE SETS. "TIE" ON DRAWINGS MEANS TIE SET.
2. PROVIDE TIES FOR EVERY OTHER VERTICAL BAR.
3. IF CLEAR SPACING BETWEEN ADJACENT VERTICALS "D" IS MORE THAN 150 (6"), ADD TIES SHOWN DASHED.
4. PLACE ADJACENT CROSS TIES WITH 135° HOOKS ALTERNATING HORIZONTALLY AND VERTICALLY FROM SIDE TO SIDE OF COLUMN / WALL / PIER / CAP
5. ALTERNATE TIE ARRANGEMENTS MAY BE ACCEPTABLE SUBJECT TO THE CONSULTANT'S REVIEW.
6. SEE COLUMN SCHEDULE FOR SPECIAL TIE ARRANGEMENTS.

135° HOOKS

HOOP

135° HOOKS

CIRCULAR TIE

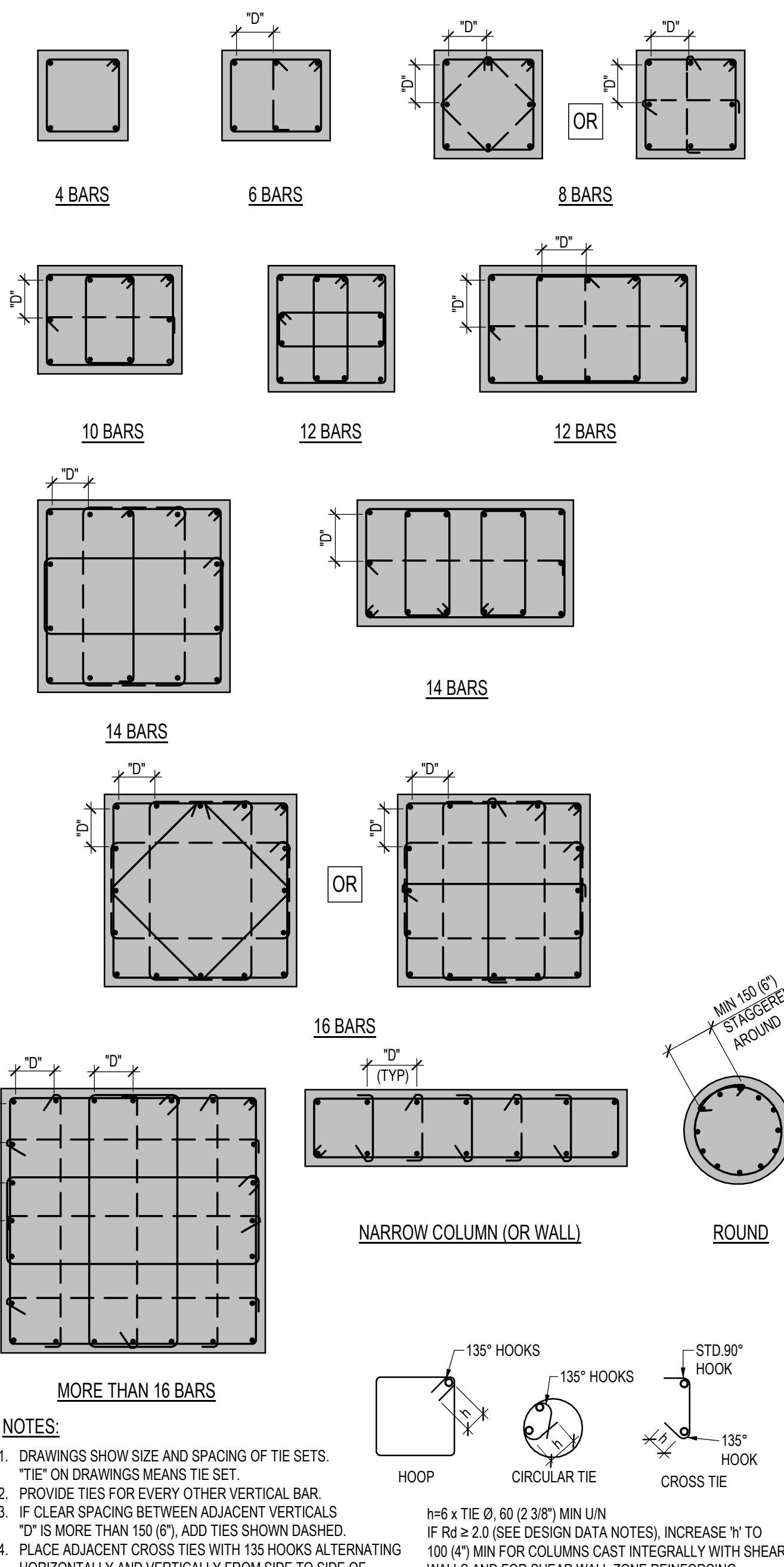
STD 90° HOOK

135° HOOK

CROSS TIE


h=6 x TIE Ø, 60 (2 3/8") MIN UN IF Rd ≥ 2.0 (SEE DESIGN DATA NOTES); INCREASE "Y" TO 100 (4") MIN FOR COLUMNS CAST INTEGRALLY WITH SHEAR WALLS AND FOR SHEAR WALL ZONE REINFORCING.

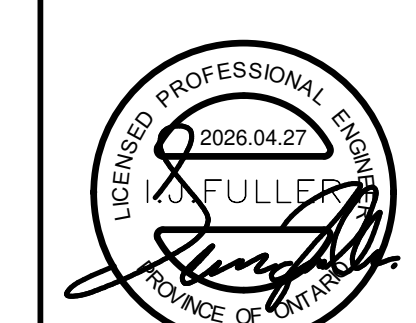
TYPICAL TIE SHAPES



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PROJECT:
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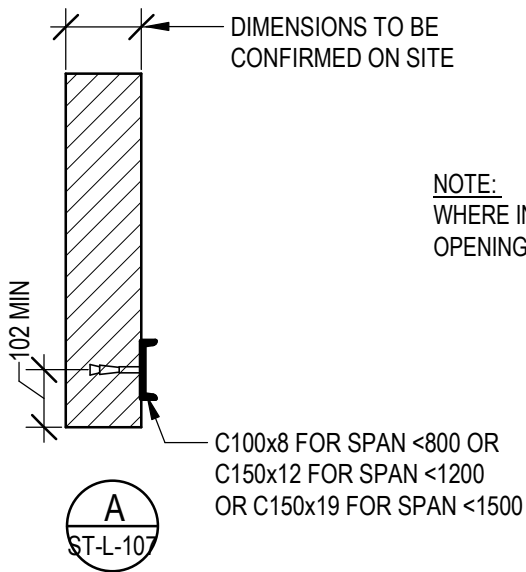
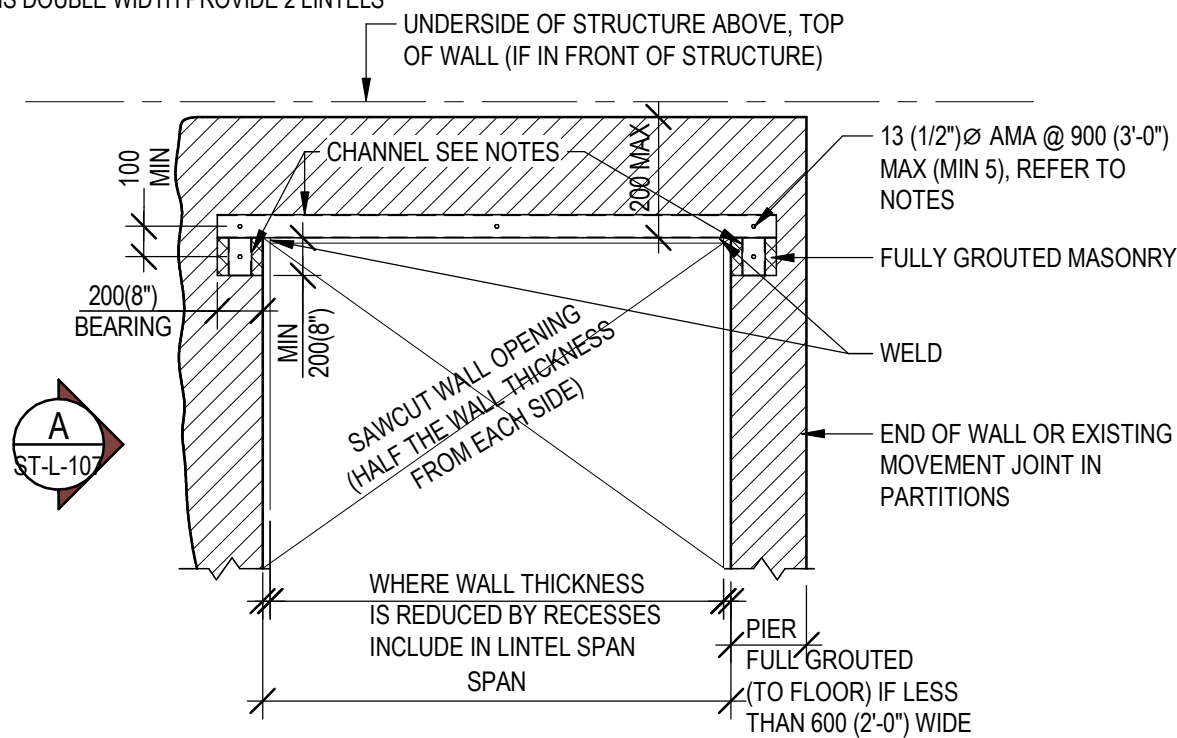
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TITLE: TYPICAL DETAILS
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SHEET #: 2 OF 4
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REV # 5

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

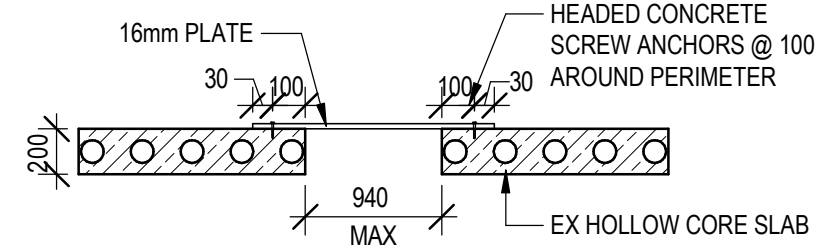


C100x8 FOR SPAN <800 OR
C150x12 FOR SPAN <1200
OR C150x19 FOR SPAN <1500

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

OPENING CLOSURE AT HOLLOW CORE SLAB

PD-02



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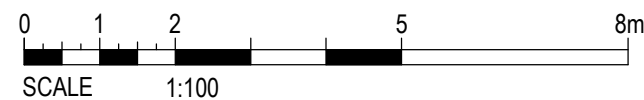
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1 PARTIAL ROOF PART PLAN 1 ST-L-200 1:100

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

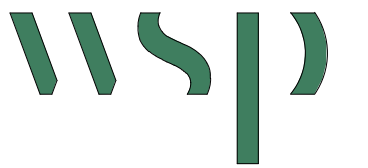
EX COLUMN TO BE SHORED AND REINSTATED FOLLOWING CIVIL WORKS. IF NO EXISTING PIER IS LOCATED PROVIDE P2 PIER AND F1 FOOTING.



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TITLE:

PARTIAL ROOF PART PLAN 1

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ST-L-200

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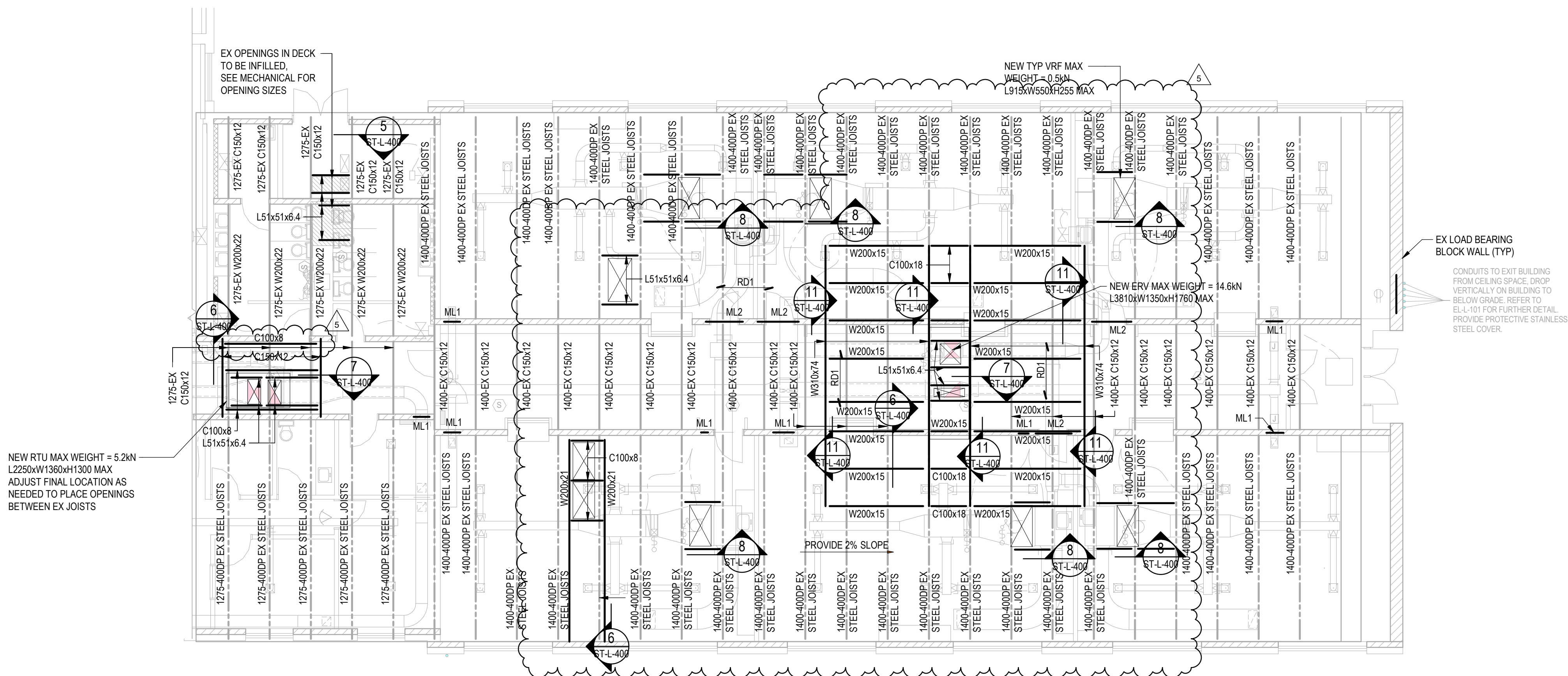
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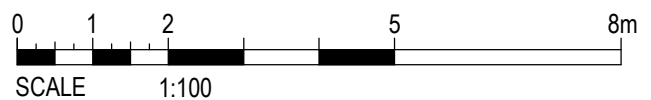
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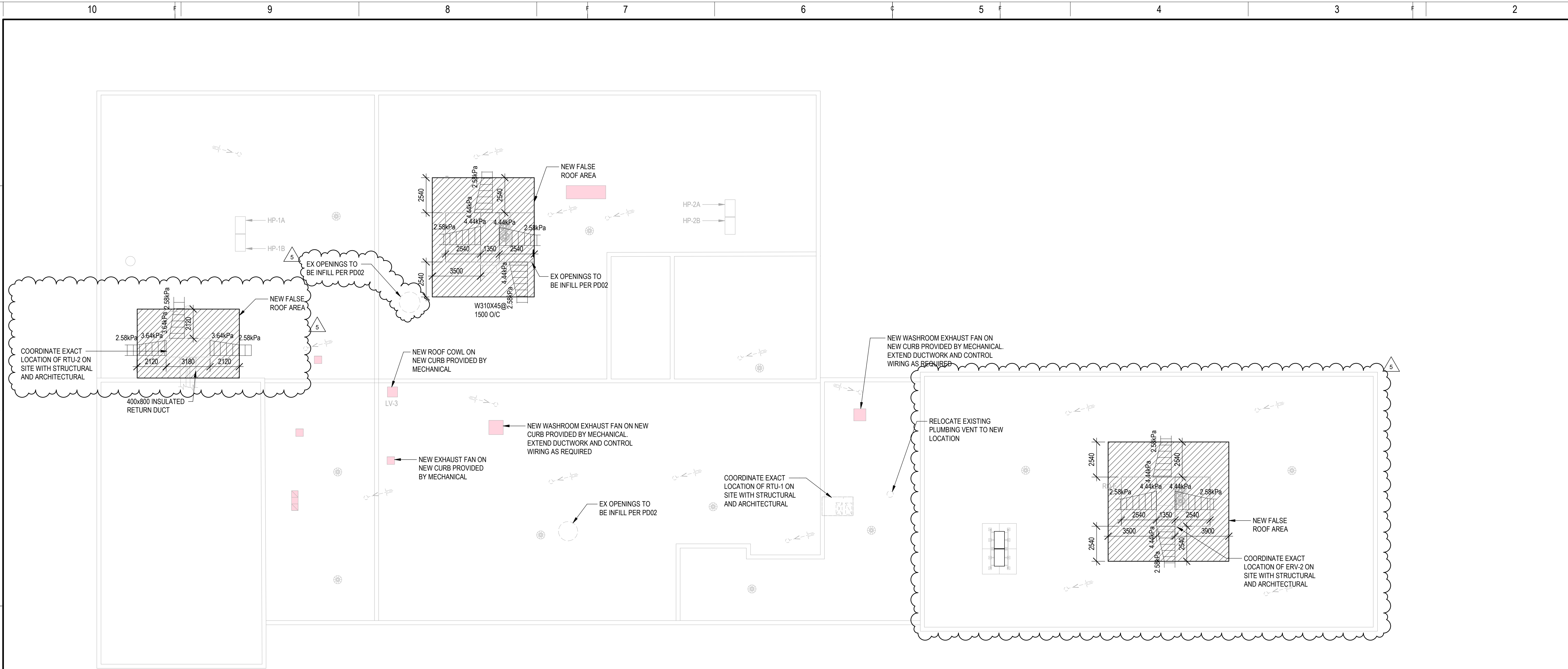


ST-L-201 1:100

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



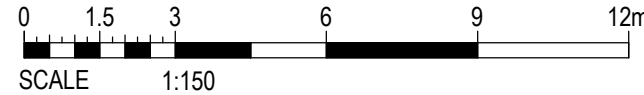
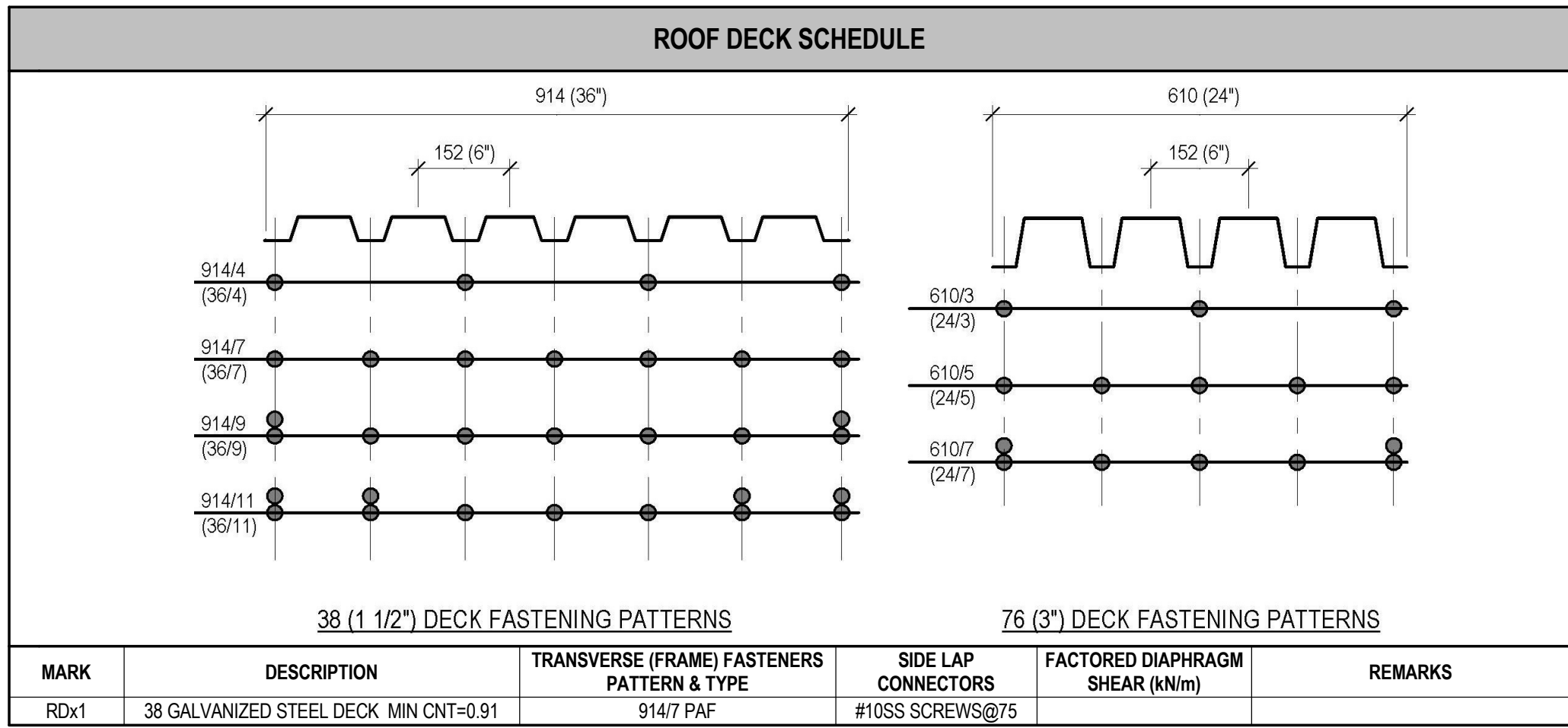
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1 OVERALL ROOF PLAN ST-L-202 1: 150

ROOF FRAMING PLAN NOTES

- SEE GENERAL NOTES AND TYPICAL DETAILS ON ST-L-100 SERIES DRAWINGS.
- ROOF IS LEVEL WITH EXISTING. ASSUMED DATUM ELEVATION IS 3410.
- 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
- DESIGN AND CONNECT STEEL DECK, JOISTS AND BRIDGING FOR NET FACTORED UPLIFT OF 0.85 kPa DUE TO WIND.
- 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.
- "RD1" ON PLAN DENOTES 38 DEEP STEEL ROOF DECK, MIN. CNT=0.91. FASTEN DECK AS PER ROOF AND FLOOR DECK ASSEMBLIES GENERAL NOTES.
- 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.
- FOR FLOOR AREAS, SEE FLOOR FRAMING PLAN NOTES ON DRAWING ST-L-201.
- FOR EXACT LOCATIONS OF OPENINGS AND UNITS REFER TO MECH



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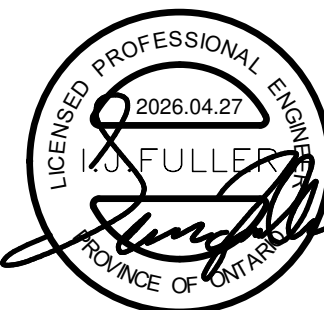
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1 PV NEW WORK

PV NEW WORK PLAN NOTES

- UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS FOR PV PANELS ARE:
LIVE LOAD (SNOW) = 2.58 kPa MINIMUM
SUPERIMPOSED DEAD LOAD (PV PANELS + RACKING) = 0.5 kPa
- MAXIMUM PANEL ARRAY DIMENSIONS PER 4 POST TRACK = L8400xW2900xH3200 MAX.
HIGHEST EDGE OF ARRAY NOT TO EXCEED 4200 MAX HEIGHT ABOVE GRADE.
- MINIMUM TILT ANGLE TO BE 10° FROM HORIZONTAL
- UNLESS NOTED OTHERWISE, ON PLAN, DESIGN LOADS FOR FOUNDATION CONNECTIONS ARE: TF = 65 kN, CF = 75 kN, VF = 15 kN. PROVIDE ENG SUBMITAL FOR REVIEW
- AT NEW PV KIOSK PROVIDE SOG AS PER TC-SOG-62

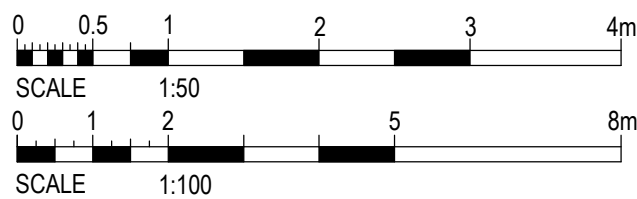
PIER SCHEDULE NOTES

- SEE GENERAL NOTES AND TYPICAL DETAILS ON ST-L-100 DRAWING SERIES.
- PROVIDE COMPRESSION LAP SPLICES FOR VERTICAL REINFORCEMENT UNLESS OTHERWISE NOTED.

PIER SCHEDULE				
MARK	a	b	REINFORCEMENT	REMARKS
P1	4000		7-15V + 10@250 TIES	
P2	550	550	12-20V + 10@300 TIES	

SPREAD FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	DEPTH	REINFORCEMENT	REMARKS
F1	2000	2000	300	7-15 BEW	SET TOF AT FROST DEPTH NOTED

STRIP FOOTING SCHEDULE				
MARK	WIDTH	DEPTH	REINFORCEMENT	REMARKS
SF1	2100	400	7-15BUL CONT, 15@300BLL(HH)	BOF TO BE LOCATED ON BEDROCK



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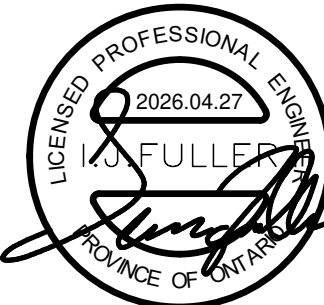
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PV NEW WORK PARTIAL PLAN

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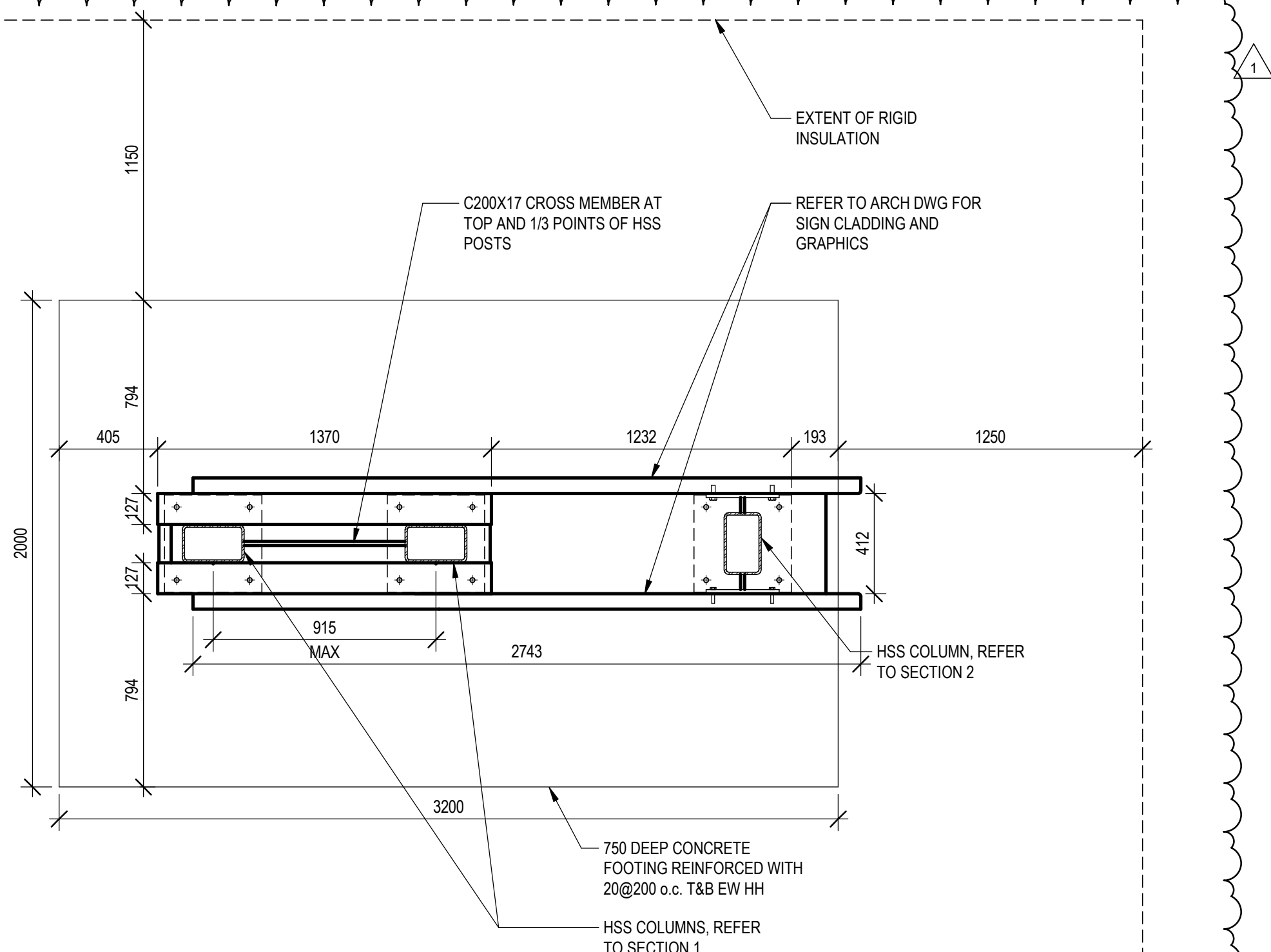
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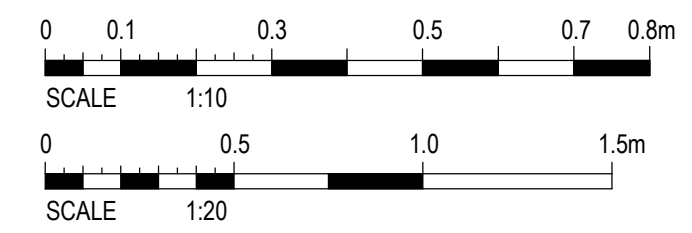
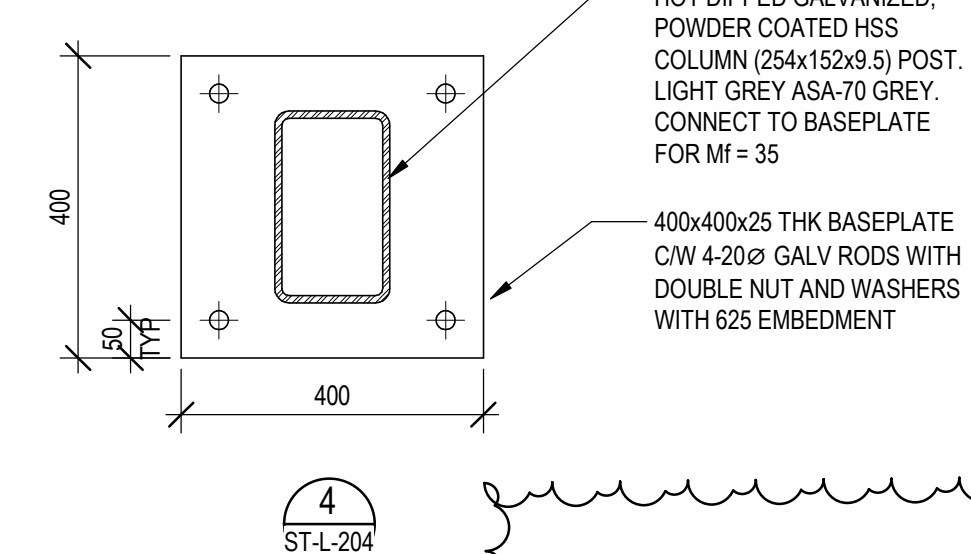
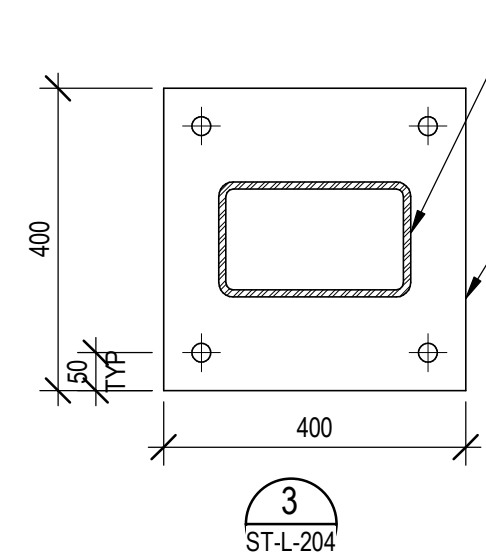
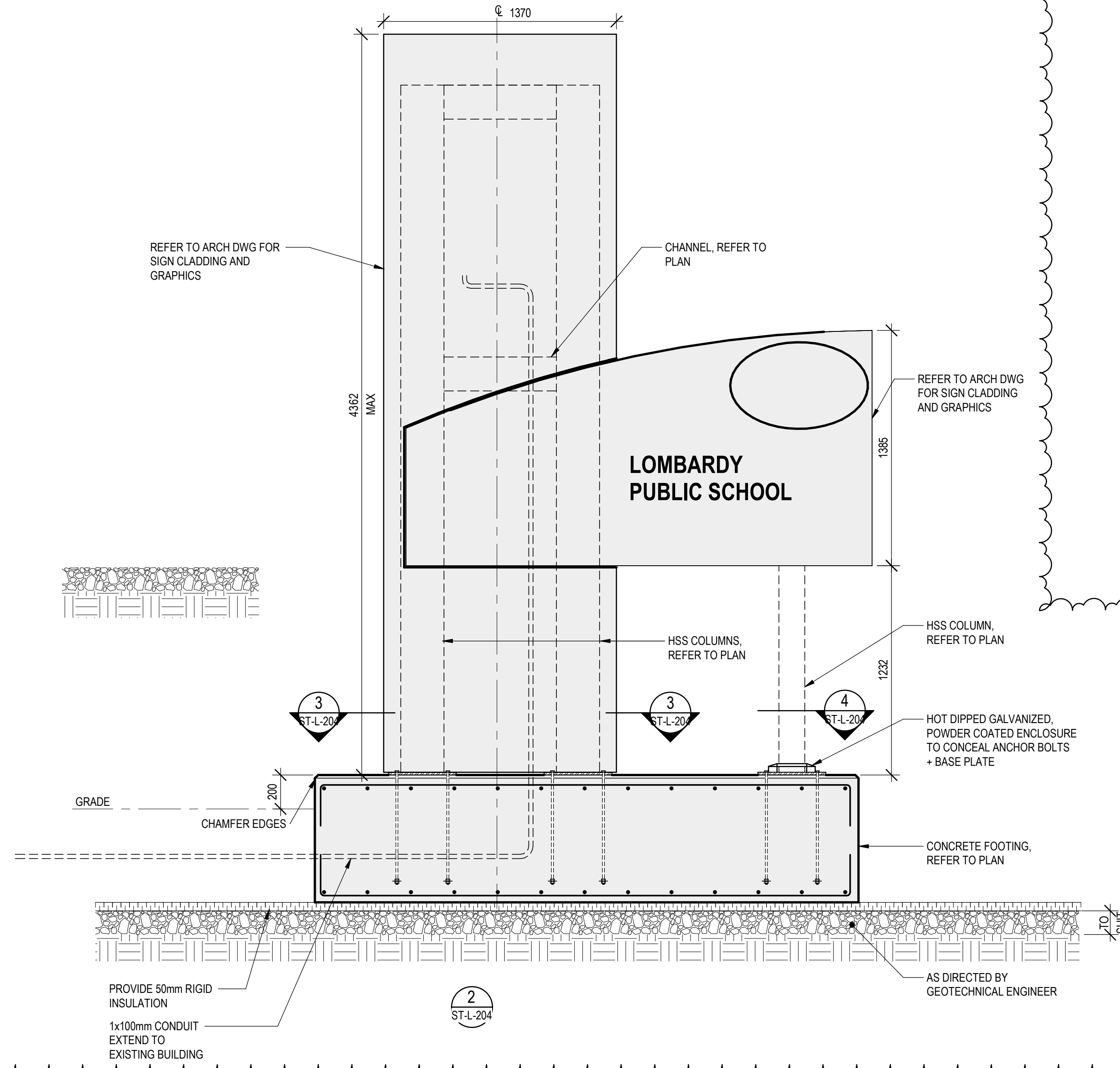
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BRONZE SIGN FOUNDATION PLAN



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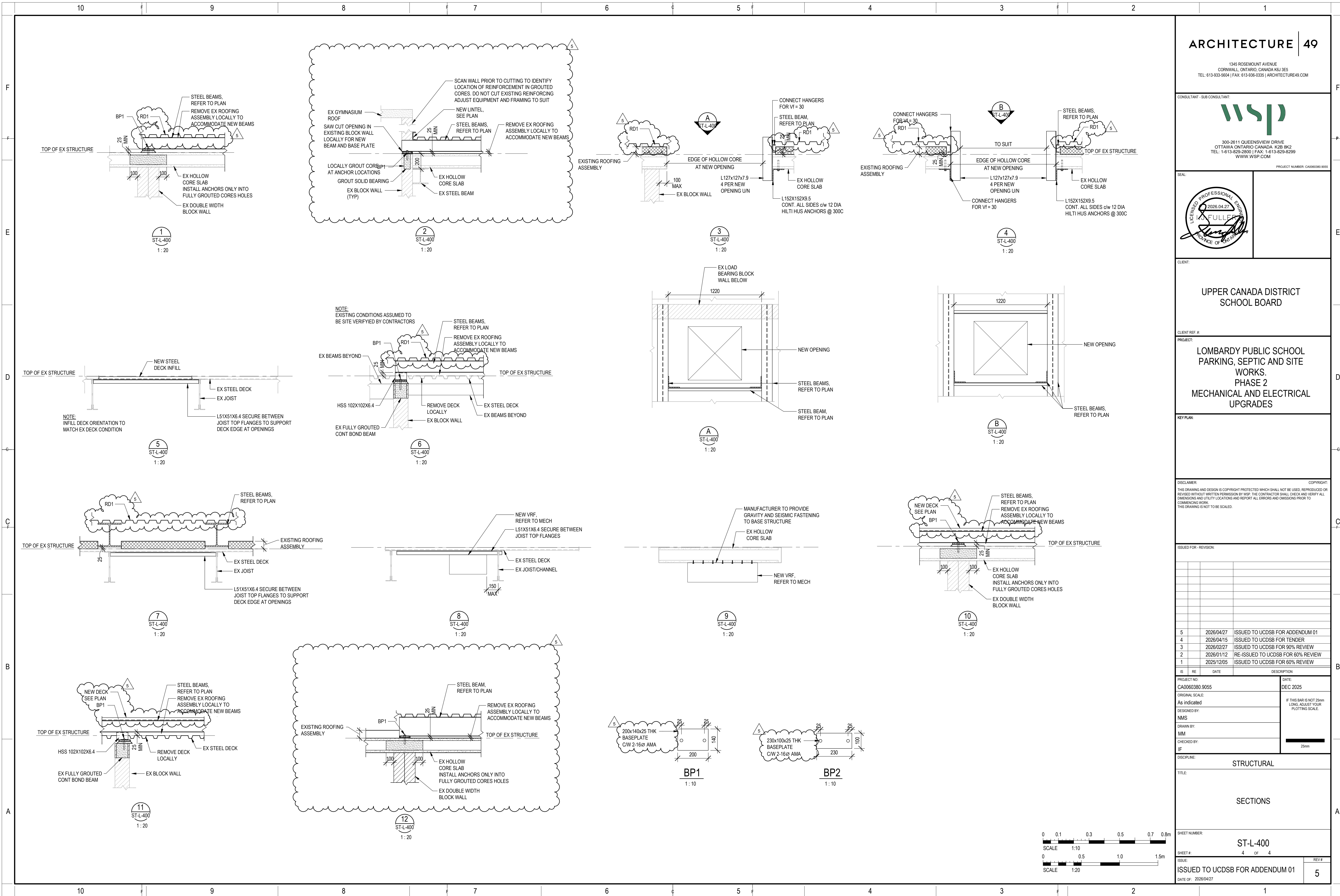
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TITLE:
BRONZE SIGN FOUNDATION PLAN AND
SECTION DETAILS

SHEET NUMBER: ST-L-204	REV # 1
SHEET #: 3 OF 4	
ISSUE: ISSUED TO UCDSB FOR ADDENDUM 01	
DATE OF: 2025/04/27	

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PROJECT:
LOMBARDY PUBLIC SCHOOL
PARKING, SEPTIC 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
2		2026/01/12	RE-ISSUED TO UCDSB FOR 60% REVIEW
1		2025/12/05	ISSUED TO UCDSB FOR 60% REVIEW

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SHEET NUMBER:

ST-L-400

SHEET #:

4 OF 4

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REV #

5

The following changes are effective immediately and shall be incorporated into the Tender Documents.

SPECIFICATIONS:

Mechanical:

1. With reference to Mechanical Specifications:
 1. **ADD** attached specification section 21 06 01 Portable Fire Extinguishers
2. With reference to Specification Section 23 37 20 – Louvers, Intakes and Vents:
 1. **ADD** 2.1 to read:
 “.2 Non-corrosive motorized damper supplied loose for site installation in wall housing, equal to Greenheck VCD-20 control damper with linkage, end switch, and a Belimo or equal motor with voltage to suit site control voltage requirements.”
3. With reference to Specification Section 23 74 00 – Packaged Outdoor HVAC Equipment:
 1. **REVISE** 2.3.1.25 to read:
 “Horizontal or Vertical supply and return air connections as required per layout drawings. Field convertible units are acceptable.”

DRAWINGS:

Mechanical:

1. With reference to Drawing ME-0-001 – MECHANICAL LEGENDS:
 1. **ADD** Fire Extinguisher symbol under RENOVATION – LEGEND
2. With reference to Drawing ME-L-100 – HVAC SYSTEMS GROUND FLOOR DEMOLITION:
 1. **ADD** note 6 under HVAC DEMOLITION NOTES to read
 “HEATING SYSTEM SHALL BE FULLY INSTALLED, OPERATIONAL, AND READY FOR USE BY OCTOBER OF EACH CONSTRUCTION YEAR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY HEATING AS REQUIRED TO MAINTAIN CONSTRUCTION AND OCCUPANCY CONDITIONS UNTIL PERMANENT HEATING IS OPERATIONAL.”
3. With reference to Drawing ME-L-101 – HYDRONIC SYSTEMS GROUND FLOOR DEMOLITION:
 1. **ADD** note 6 under HVAC DEMOLITION NOTES to read
 “HEATING SYSTEM SHALL BE FULLY INSTALLED, OPERATIONAL, AND READY FOR USE BY OCTOBER OF EACH CONSTRUCTION YEAR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY HEATING AS REQUIRED TO MAINTAIN CONSTRUCTION AND OCCUPANCY CONDITIONS UNTIL PERMANENT HEATING IS OPERATIONAL.”
 2. **DELETE** tag that states **~~“REPLACE ALL CONTROL VALVES (TYP.)”~~**
4. With reference to Drawing ME-L-102 – HVAC SYSTEMS ROOF DEMOLITION:
 1. **ADD** note 6 under HVAC DEMOLITION NOTES to read
 “HEATING SYSTEM SHALL BE FULLY INSTALLED, OPERATIONAL, AND READY FOR USE BY OCTOBER OF EACH CONSTRUCTION YEAR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY HEATING AS REQUIRED TO MAINTAIN CONSTRUCTION AND OCCUPANCY CONDITIONS UNTIL PERMANENT HEATING IS OPERATIONAL.”

2. **REVISE** note for vent to roof "VTR-R" to read "~~RELOCATE SANITARY VENT EXTEND PLUMBING VENT TO TERMINATE MINIMUM 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE.~~"
 3. **REVISE** tag for existing vent to roof "~~VTR-E~~" to "VTR-R" and **ADD** note to read "EXTEND PLUMBING VENT TO TERMINATE MINIMUM 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE."
 4. **REVISE** note for vent to roof "VTR-R" to read "EXTEND PLUMBING VENT TO TERMINATE MINIMUM ~~900mm~~ 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE."
 5. **REVISE** drawing to show two (2) existing roof drains on east roof as shown on attached drawings.
5. With reference to Drawing ME-L-103 – HVAC SYSTEMS GROUND FLOOR RENOVATIONS:
1. **ADD** fire extinguisher "FE-1" to electrical shed and note to read "PROVIDE ONE (1) CLASS ABC PORTABLE FIRE EXTINGUISHER IN THE NEW ELECTRICAL SHED, COMPLETE WITH WALL BRACKET AND IDENTIFICATION SIGNAGE. INSTALL IN AN ACCESSIBLE LOCATION."
 2. **ADD** note for existing control valve to read "INTEGRATE ALL EXISTING ON/OFF (DIGITAL) CONTROL VALVES AT RADIATORS AND HEATERS TO THE NEW BUILDING AUTOMATION SYSTEM (BAS) TO ENABLE MONITORING, COMMAND, AND PROPER SEQUENCING AS REQUIRED BY UCDSB. CONTRACTOR TO CONFIRM EXISTING VALVE TYPE, ACTUATOR VOLTAGE, AND INTERFACE REQUIREMENTS AND PROVIDE ALL REQUIRED CONTROLS WIRING, POINTS, AND PROGRAMMING. (TYP.)."
 3. **REVISE** main supply and return ductwork from ERV-2 to drop at different location. **REVISE** all attached branch ductwork as shown on attached drawings
6. With reference to Drawing ME-L-104 – HVAC SYSTEMS GROUND FLOOR RENOVATIONS:
1. **REVISE** drawing title to read "~~HVAC PLUMBING SYSTEMS GROUND FLOOR RENOVATIONS~~"
 2. **REVISE** note to condensate pipe to read "~~320 200 CONDENSATE (TYPICAL).~~"
 3. **REVISE** location of CMB-3 and doghouse for connection to roof top heat pumps (3A/3B) as shown on attached drawings.
7. With reference to Drawing ME-L-105 – HVAC SYSTEMS ROOF RENOVATIONS:
1. **REVISE** note for vent to roof "VTR" to read "~~RELOCATE SANITARY VENT EXTEND PLUMBING VENT TO TERMINATE MINIMUM 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE.~~"
 2. **REVISE** tag for existing vent to roof "~~VTR-E~~" to "VTR" and **ADD** note to read "EXTEND PLUMBING VENT TO TERMINATE MINIMUM 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE."
 3. **REVISE** note for vent to roof "VTR" to read "EXTEND PLUMBING VENT TO TERMINATE MINIMUM ~~900mm~~ 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE."
 4. **REVISE** location of ERV-2 as shown on attached drawings.
 5. **REVISE** drawing to show two (2) existing roof drains on east roof as shown on attached drawings.
8. With reference to Drawing ME-L-106 – HVAC SYSTEMS ROOF RENOVATIONS:
1. **REVISE** drawing title to read "~~HVAC PLUMBING SYSTEMS ROOF RENOVATIONS~~"
 2. **REVISE** note for vent to roof "VTR" to read "~~RELOCATE SANITARY VENT EXTEND PLUMBING VENT TO TERMINATE MINIMUM 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE.~~"

3. **REVISE** tag for existing vent to roof "~~VTR-E~~" to "**VTR**" and **ADD** note to read "**EXTEND PLUMBING VENT TO TERMINATE MINIMUM 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE.**"
4. **REVISE** note for vent to roof "VTR" to read "**EXTEND PLUMBING VENT TO TERMINATE MINIMUM ~~900mm~~ 1000 mm (3 FT) ABOVE THE LEVEL OF THE ROOFTOP UNIT OUTDOOR AIR INTAKE.**"
5. **REVISE** location of HP-3A/3B and doghouse for refrigerant piping and condensate from fan coils and CMB-3 below to updated location as shown on attached drawings.
6. **REVISE** drawing to show two (2) existing roof drains on east roof as shown on attached drawings.

End of Mechanical Engineering Addendum No. 1

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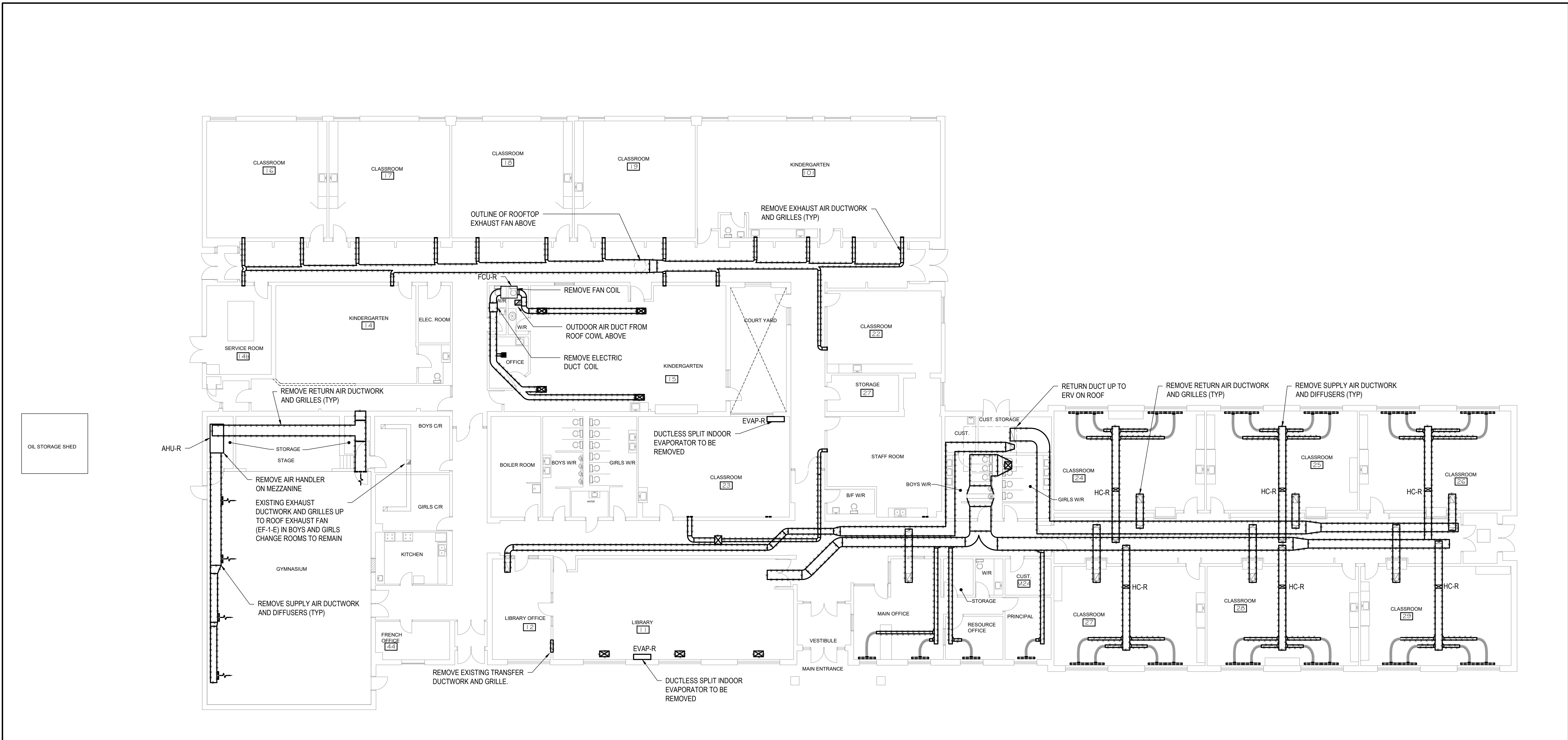
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DATE: 2026/04/27 10:00 AM PROJECT: LOMBARDY PUBLIC SCHOOL - MECHANICAL AND ELECTRICAL UPGRADES - PHASE 2 - MECHANICAL AND ELECTRICAL UPGRADES - PROJECT LOCATION: LOMBARDY PUBLIC SCHOOL - 1345 ROSEMOUNT AVENUE, CORNWALL, ONTARIO, CANADA K6J 3E5



HVAC SYSTEMS GROUND FLOOR DEMOLITION
SCALE: 1:150

- HVAC DEMOLITION NOTES**
- DUCTWORK REMOVALS TO INCLUDE HANGERS, SUPPORTS, RISERS, FITTINGS AND ALL OTHER ASSOCIATED EQUIPMENT.
 - REMOVE ALL REDUNDANT DUCTWORK BACK TO MAIN AND CAP.
 - PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN MECHANICAL SERVICES WITHIN EXISTING STRUCTURE UNDER THIS CONTRACT THROUGHOUT DURATION OF CONSTRUCTION.
 - PATCH ALL WALL OPENINGS RESULTING FROM DUCTWORK REMOVAL FROM EXTERIOR WALLS.
 - REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS.
 - HEATING SYSTEM SHALL BE FULLY INSTALLED, OPERATIONAL, AND READY FOR USE BY OCTOBER OF EACH CONSTRUCTION YEAR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY HEATING AS REQUIRED TO MAINTAIN CONSTRUCTION AND OCCUPANCY CONDITIONS UNTIL PERMANENT HEATING IS OPERATIONAL.

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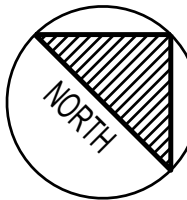
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PARKING AND SITE WORKS.
PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES**

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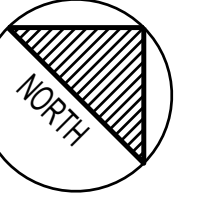
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DISCIPLINE:	MECHANICAL
TITLE:	HVAC SYSTEMS GROUND FLOOR DEMOLITION
SHEET NUMBER:	ME-L-100
SHEET #:	2 OF 15
ISSUE:	ISSUED TO UCDSB FOR ADDENDUM 01
DATE OF:	27 APRIL 2026
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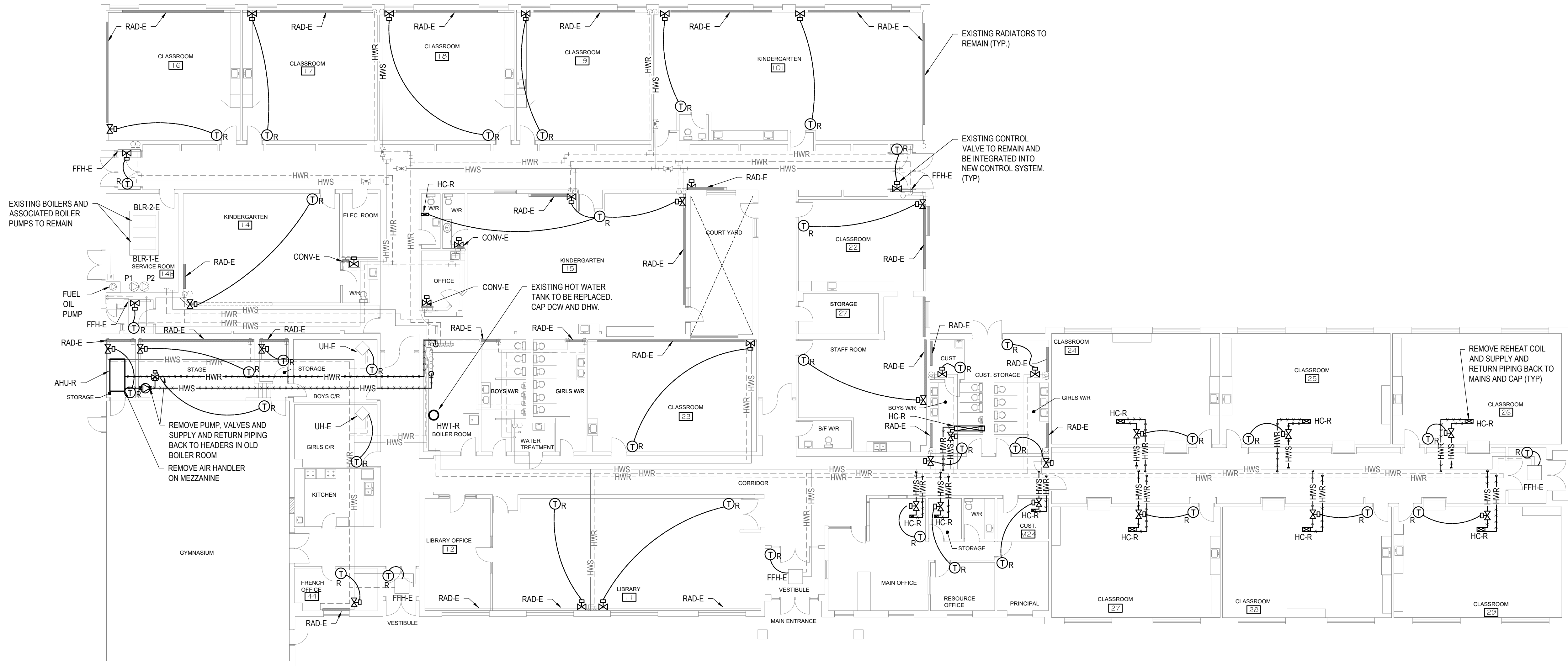
HYDRONIC SYSTEMS
GROUND FLOOR
DEMOLITION

ME-L-101

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DATE OF: 27 APRIL 2026

78



SCALE: 1:150

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.

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 SYSTEMS WITHIN EXISTING STRUCTURE UNDER THIS CONTRACT THROUGHOUT DURATION OF CONSTRUCTION.
4. PATCH ALL WALL OPENINGS RESULTING FROM DUCTWORK REMOVAL FROM EXTERIOR WALLS.
5. PROVIDE TEMPORARY HEATING MEASURES.
6. HEATING SYSTEM SHALL BE FULLY INSTALLED, OPERATIONAL, AND READY FOR USE BY OCTOBER OF EACH CONSTRUCTION YEAR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY HEATING AS REQUIRED TO MAINTAIN CONSTRUCTION AND OCCUPANCY CONDITIONS UNTIL PERMANENT HEATING IS OPERATIONAL.

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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. PROVIDE PERMANENT AIR HANDLING DEVICES
6. HEATING SYSTEM SHALL BE FULLY INSTALLED, OPERATIONAL AND READY FOR USE BY OCTOBER OF EACH CONSTRUCTION YEAR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY HEATING AS REQUIRED TO MAINTAIN CONSTRUCTION AND OCCUPANCY CONDITIONS UNTIL PERMANENT HEATING IS OPERATIONAL.

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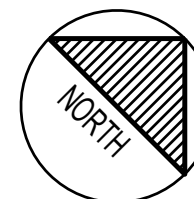
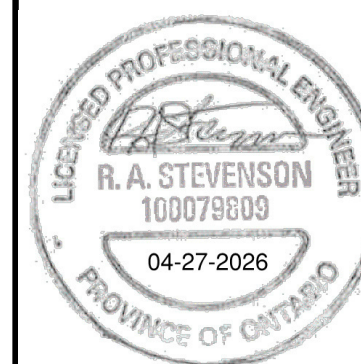
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PHASE 2
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DISCIPLINE: MECHANICAL

TITLE: HVAC SYSTEMS
ROOF DEMOLITION

SHEET NUMBER: ME-L-102

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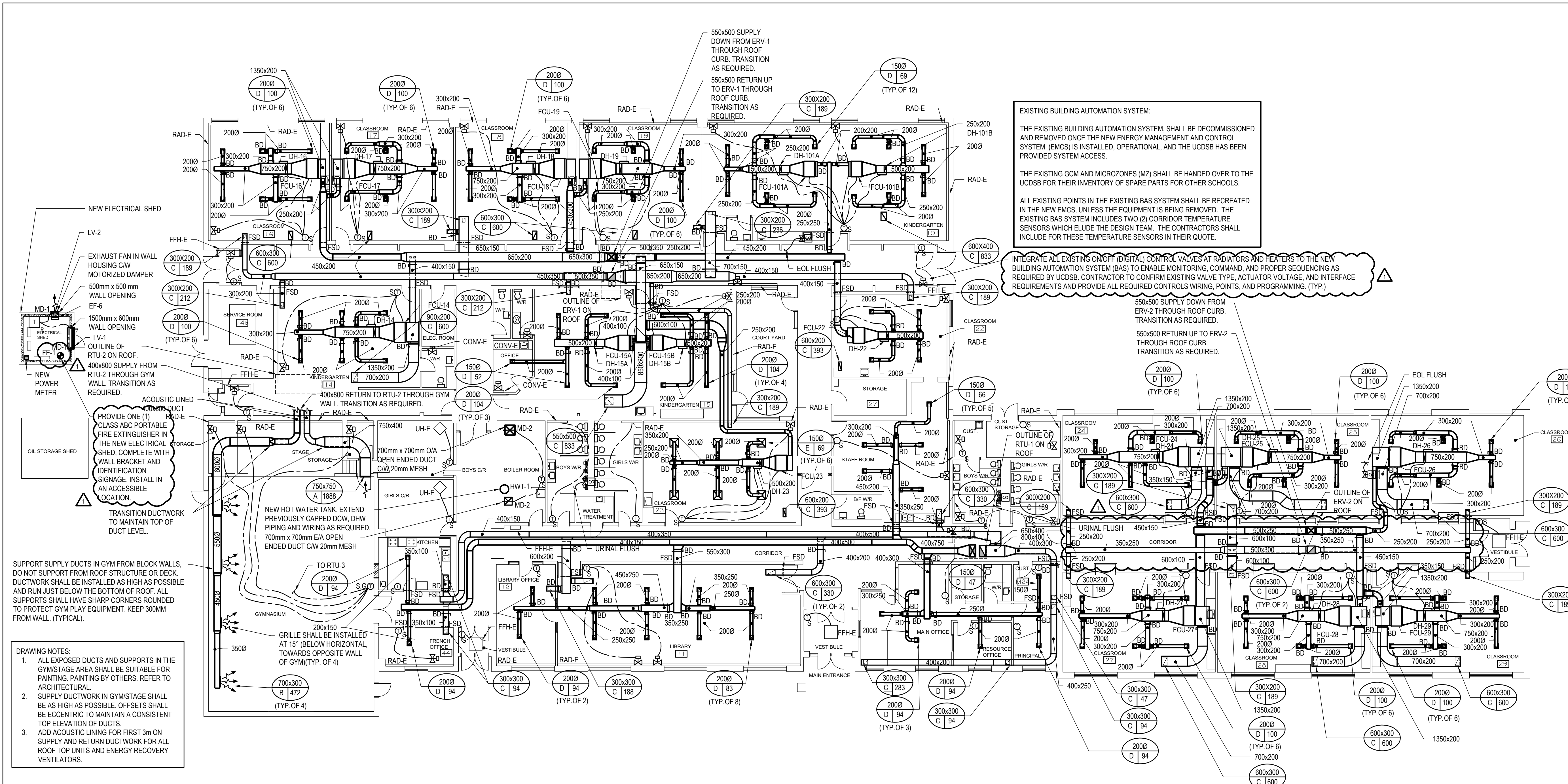
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DISCIPLINE: MECHANICAL
TITLE: HVAC SYSTEMS
GROUND FLOOR
RENOVATIONS

SHEET NUMBER: ME-L-103
SHEET #: 5 OF 15
ISSUE: ISSUED TO UCDSB FOR ADDENDUM 01
DATE OF: 27 APRIL 2026



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 (MZ) 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.
INTEGRATE ALL EXISTING ON/OFF (DIGITAL) CONTROL VALVES AT RADIATORS AND HEATERS TO THE NEW BUILDING AUTOMATION SYSTEM (BAS) TO ENABLE MONITORING, COMMAND, AND PROPER SEQUENCING AS REQUIRED BY UCDSB. CONTRACTOR TO CONFIRM EXISTING VALVE TYPE, ACTUATOR VOLTAGE, AND INTERFACE REQUIREMENTS AND PROVIDE ALL REQUIRED CONTROLS WIRING, POINTS, AND PROGRAMMING. (TYP.)

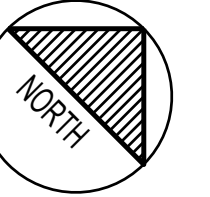
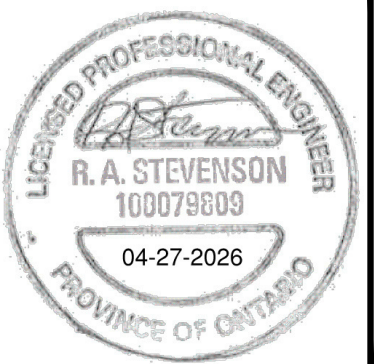
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PHASE 2
MECHANICAL AND ELECTRICAL
UPGRADES


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PROJECT NO: CA0060380.9055	DATE APRIL 2026
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DESIGNED BY: ET, DC	
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DISCIPLINE: MECHANICAL

TITLE:

PLUMBING SYSTEMS
GROUND FLOOR
RENOVATIONS

SHEET NUMBER:

ME-L-104

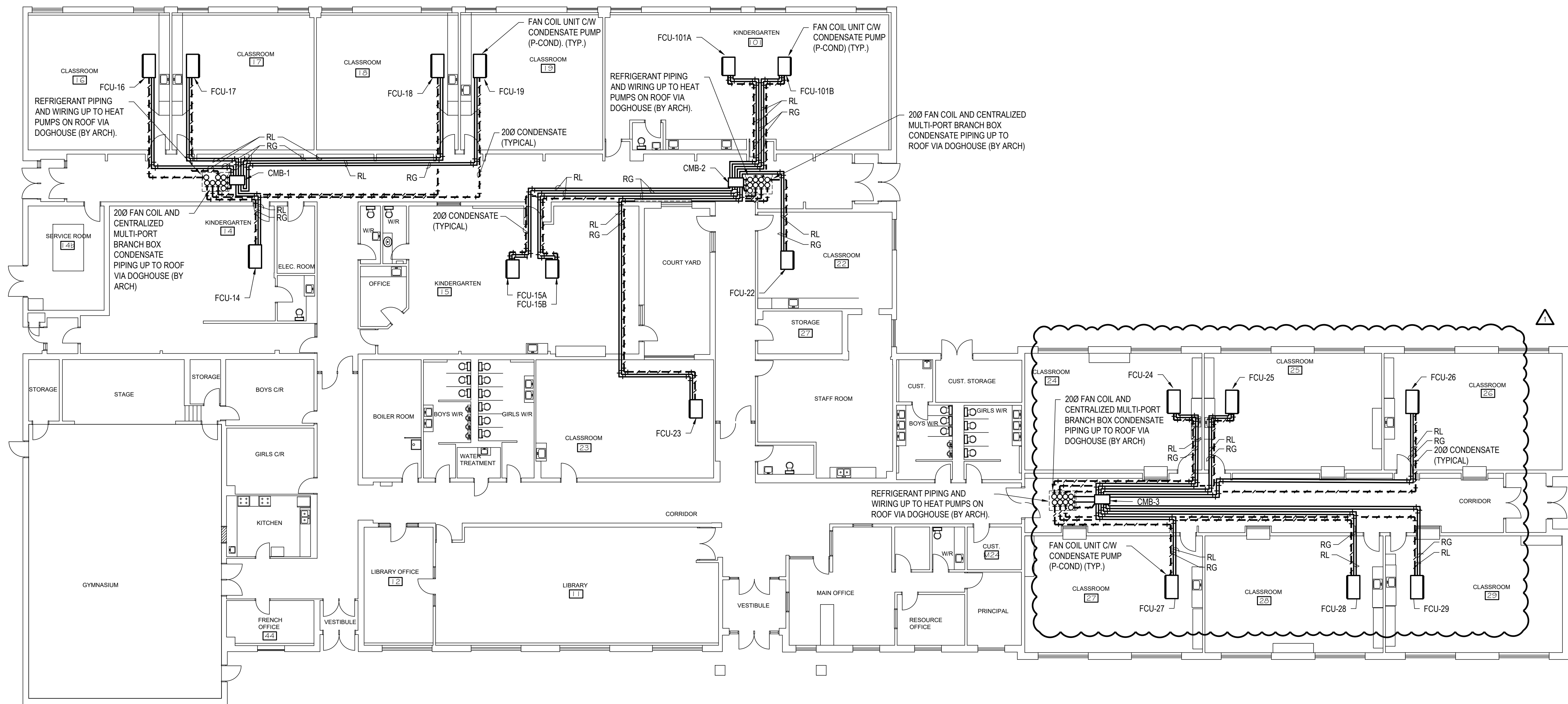
SHEET #: 6 OF 15

ISSUE:	REV #
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SHEET: Arch D - PLOTTED ON: April 27, 2006 4:54:00 PM - BY: CHINEDU, DENNIS



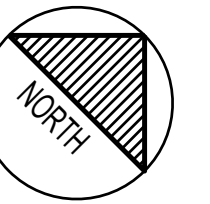
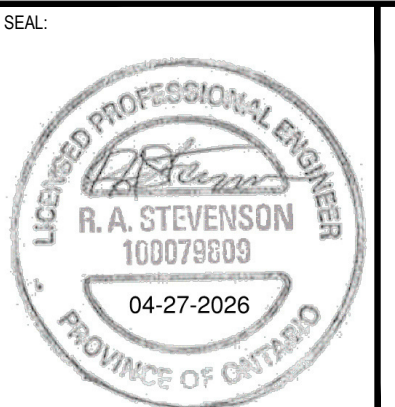
PLUMBING SYSTEMS GROUND FLOOR RENOVATIONS

SCALE: 1:150

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UPPER CANADA DISTRICT
SCHOOL BOARD

PROJECT:

LOMBARDY PUBLIC SCHOOL
PARKING AND SITE WORKS.
PHASE 2
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DISCIPLINE: MECHANICAL

TITLE:

HVAC SYSTEMS
ROOF RENOVATIONS

SHEET NUMBER:

ME-L-105

SHEET #: 7 OF 15

ISSUE:	REV #

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TITLE: PLUMBING SYSTEMS
ROOF RENOVATIONS

SHEET #:		8	OF	15
ISSUE:				REV #

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DATE OF: 27 APRIL 2026	0

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ADDENDUM #E1

Project Name:	PARKING AND SITE WORKS PHASE 2 - MECHANICAL & ELECTRICAL UPGRADES	Addendum No.:	ADD-E1
		Revision:	0
		Issue Date	2026-04-27
Architect: A49			
Owner: UCDSB		WSP Project Number:	CA0060380.9055

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents. Include in bid amount for the following items of addition, deletion or clarification. Indicate in the space provided on the bid form that you have received and included for the requirements of this addendum.

Reference (not attached): Issued for Tender Electrical Drawings and Specifications dated 2026-04-15.

Description of Work:

1. Clarification – Update detail reference as shown on attached drawing EL-L-101.
2. Addition – Refer to attached drawing EL-L-104 & EL-L-105 for additional condensate pump scope.
3. Addition – Refer to attached drawing EL-L-104 and provide stainless steel cover for exterior conduits surface mounted to the building.
4. Clarification – Refer to attached drawing EL-L-105 for clarification with PV telecom repeater.
5. Clarification – Refer to attached drawing EL-L-105 for CMB-3 location revision.
6. Clarification – Refer to attached drawing EL-L-107 for mechanical equipment and maintenance receptacle location revision.
7. Clarification – Refer to attached drawing EL-L-107 for additional coordination notes.
8. Clarification – Revise breaker and fuse for RTU-2 to 90A. Revise RTU-2 wiring and conduit to 3#3AWG+8AWG BD IN 35MM C
9. Deletion – Reference Specification section 26 05 19 – Low Voltage Electrical Power Conductors and Cables 1.1.6
Delete article as follows,
~~6 CSA C22.2 No. 131-17, Type TECK 90 Cable.~~
10. Deletion – Reference Specification section 26 05 19 – Low Voltage Electrical Power Conductors and Cables 2.2
Delete article as follows,
~~2-2 TECK 90 CABLE~~
~~1 In accordance with CSA C22.2 No. 131.~~
~~2 Rated for outdoor, weather resistant and wet locations including direct burial applications.~~
~~3 1000 V rated.~~
~~4 Conductor: Bare, soft drawn, Class B compact or compressed stranded copper conductors.~~
~~5 Insulation: Chemically cross-linked thermosetting polyethylene (XLPE).~~
~~6 Bonding Conductor (1/C Cable): Soft drawn bare copper.~~
~~7 Inner Jacket: Sunlight resistant PVC jacket tightly applied over assembly, to prevent slipping of core in a vertical position.~~
~~8 Armour: Flexible interlocked aluminum armour, over inner jacket for mechanical protection.~~
~~9 Overall PVC jacket rated minus 40°C.~~
~~10 Barrier tape over shield.~~
~~11 Terminations to suit specific applications and approved for TECK cable.~~
~~12 Fastenings:~~
~~1 One-hole steel straps to secure surface cables 50 mm and smaller. Two-hole steel straps for cables larger than 50 mm.~~
~~2 Channel type supports for two or more cables.~~
~~3 Threaded Rods: Not less than 6 mm diameter to support suspended channels.~~
11. Deletion – Reference Specification section 26 05 19 – Low Voltage Electrical Power Conductors and Cables 3.5

Delete article as follows,

~~3.5 INSTALLATION OF TECK 90 CABLE (0-1000 V)~~

- ~~.1 Provide Teck 90 cables for applications as noted. Handle, install, and terminate in accordance with manufacturer recommendations and instructions and as specified.~~
- ~~.2 Group cables wherever possible on channels.~~
- ~~.3 Install cable exposed or concealed suiting intended area of installation. Securely support with straps and hangers.~~
- ~~.4 When pulling cable, apply pulling tension to conductor not to sheath of cable. Limit cable pulling tension as recommended by cable manufacturer.~~
- ~~.5 Terminate cable in equipment with lugs and termination kits.~~
- ~~.6 Ground shielding.~~
- ~~.7 Splices not permitted except where justified by cable pulling tension calculations and reviewed with and recommended for acceptance by Consultant. Where splices are recommended by Consultant, locate in accessible area. Identify locations on as-built drawings.~~

12. Deletion – Reference Specification section 26 05 90 – Hazardous Materials 2.2

Delete article as follows,

~~2.2 ACCEPTABLE SERVICE COMPANIES~~

~~.1 Hazardous Waste Removal Companies:~~

- ~~.1 Aevitis.~~
- ~~.2 Sanexen.~~

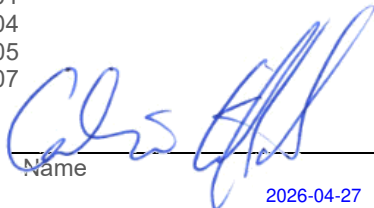
~~.2 EMI Mitigation Companies:~~

- ~~.1 C Intech.~~
- ~~.2 Power Line Systems Engineering.~~

Attachment:

- 1. EL-L-101
- 2. EL-L-104
- 3. EL-L-105
- 4. EL-L-107

Signed by:



Name
2026-04-27

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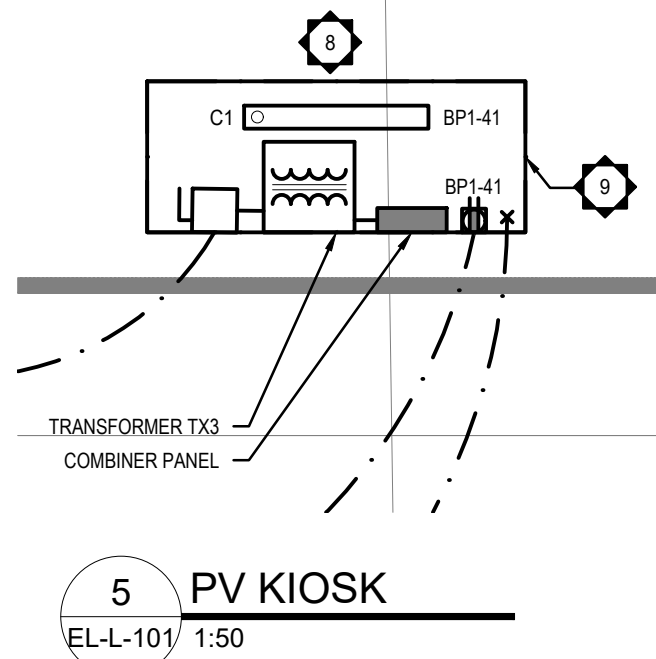
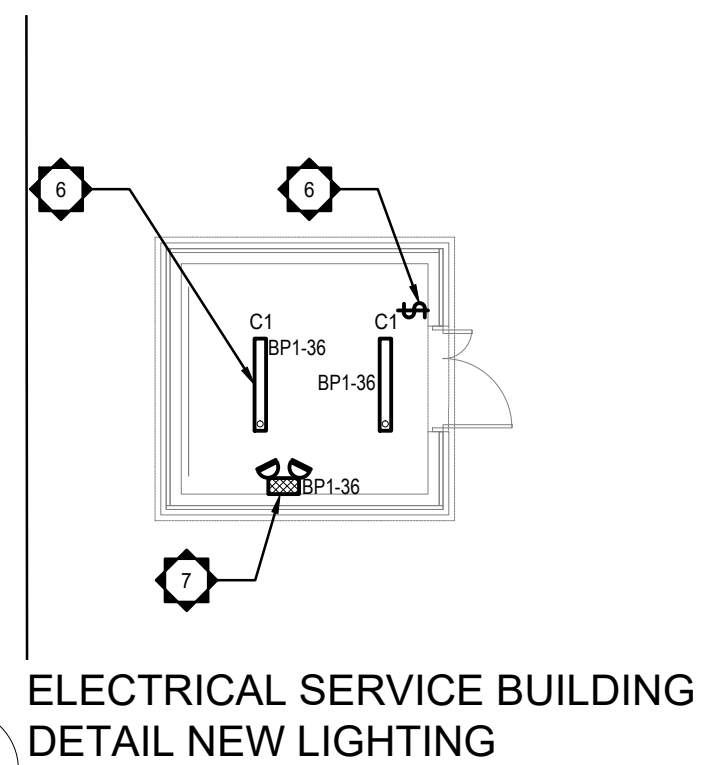
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SITE PLAN NEW WORK

EL-L-101

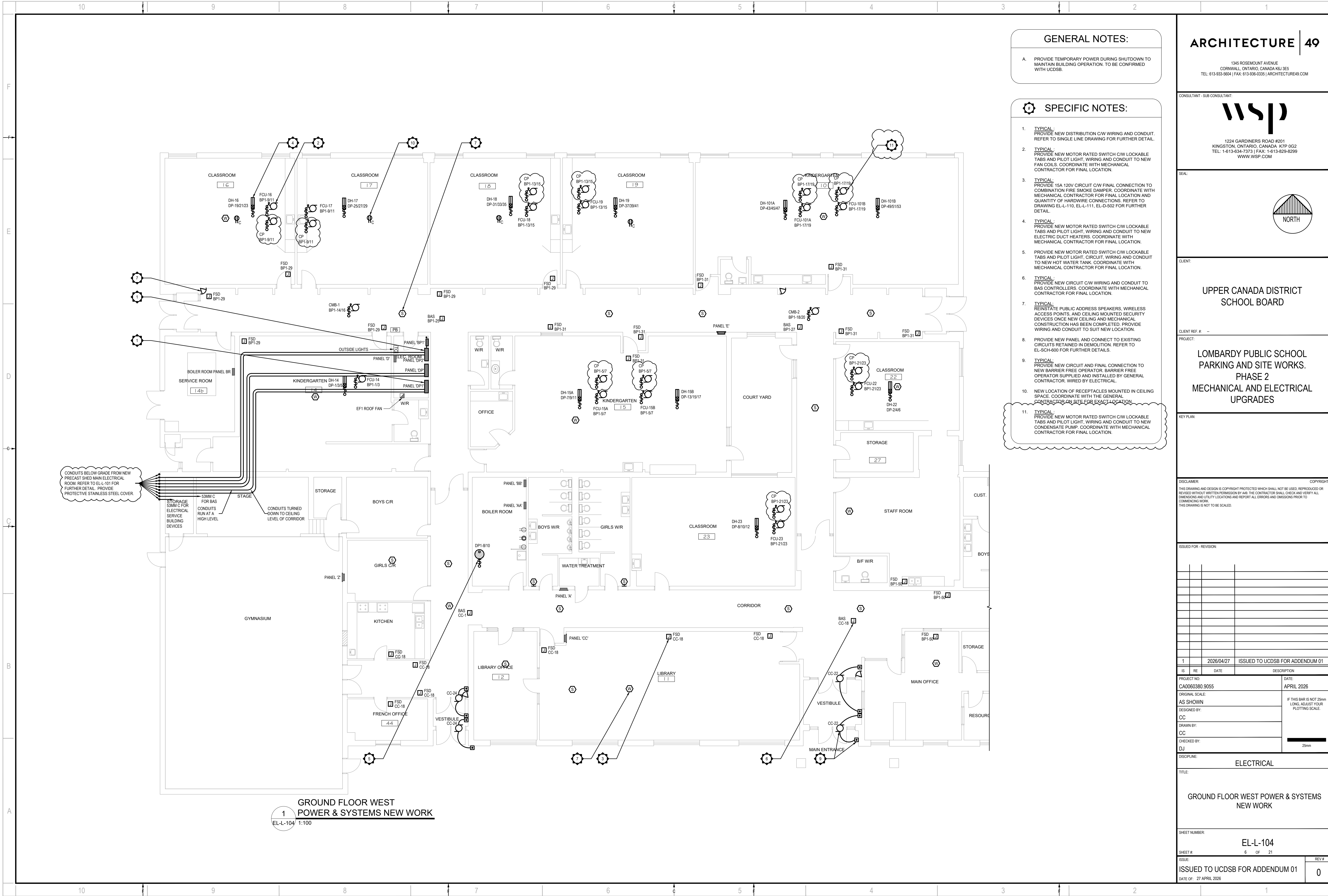
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- A. PROVIDE TEMPORARY POWER DURING SHUTDOWN TO MAINTAIN BUILDING OPERATION. TO BE CONFIRMED WITH UCDSB.
- B. PERFORM LOCATES AND COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATING.
- C. COORDINATE SHUT DOWNS WITH UTILITY.
- D. ENSURE CARE IS TAKEN BETWEEN UTILITY POLE AND SCHOOL AS THERE IS EXISTING TELECOMMUNICATIONS CONDUITS AND CABLES EXTENDING FROM UTILITY TO SCHOOL. ENSURING SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 Section 6.
- E. ENSURE CARE IS TAKEN BETWEEN ELECTRICAL SERVICE BUILDING AND SCHOOL AS THERE IS EXISTING FUEL OIL PIPING. ENSURING SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 Section 6.
- F. 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. ENSURING SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 Section 6.
- F. ENSURE CARE IS TAKEN BETWEEN SEPTIC TANK SERVICES AND SCHOOLS AS THERE IS EXISTING WATER PIPING AND ELECTRICAL CONDUITS AND CABLES EXTENDING FROM SEPTIC TANK TO SCHOOL. ENSURING SEPARATIONS ARE MAINTAINED AS REQUIRED BY CSA 22.3 Section 6.

1.	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.	8.	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.
2.	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.	9.	PROVIDE NEW NEMA 4X RATED KIOSK TO HOUSE NEW COMBINER PANEL, DISCONNECT SWITCH AND TRANSFORMER.
3.	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.	10.	PROVIDE BONDING OF NEW FENCE, AND PV RACKING SYSTEM, BACK TO BUILDING GROUND.
4.	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.	11.	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 EEL-D-502 FOR COORDINATE WITH GENERAL CONTRACTOR FOR REINSTATEMENT WORK INCLUDING ASPHALT, PAVEMENT, SODDING, SEEDING, ETC.
5.	TYPICAL: PROVIDE NEW WIRING AND CONDUIT TO MOTORIZED DAMPERS, MOTORIZED DAMPERS SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.	12.	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.
6.	TYPICAL: PROVIDE NEW LIGHT FIXTURES AND CONTROLS C/W WIRING AND CONDUIT BACK TO PANEL.	13.	PROVIDE NEW CONDUIT C/W PULL STRING AND HAND HOLE FOR FUTURE PORTABLES.
7.	PROVIDE NEW EMERGENCY BATTERY C/W NEW C/W DUAL INTEGRAL HEADS, WIRING AND CONDUIT, AND NEW CIRCUIT. EMERGENCY MPRE SERIES 60MPE-24-WU-2-LB.		



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EL-L-104 1:100
GROUND FLOOR WEST
POWER & SYSTEMS NEW WORK

GENERAL NOTES:

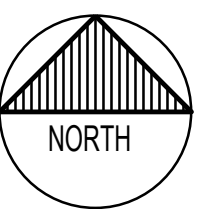
A. PROVIDE TEMPORARY POWER DURING SHUTDOWN TO MAINTAIN BUILDING OPERATION. TO BE CONFIRMED WITH UCDSB.

- SPECIFIC NOTES:
- TYPICAL: PROVIDE NEW DISTRIBUTION C/W WIRING AND CONDUIT. REFER TO SINGLE LINE DRAWING FOR FURTHER DETAIL.
 - 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 MOTOR RATED SWITCH C/W LOCKABLE TABS AND PILOT LIGHT. CIRCUIT, WIRING AND CONDUIT TO NEW HOT WATER TANK. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
 - TYPICAL: PROVIDE NEW CIRCUIT C/W WIRING AND CONDUIT TO BAS CONTROLLERS. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.
 - 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.
 - PROVIDE NEW PANEL AND CONNECT TO EXISTING CIRCUITS RETAINED IN DEMOLITION. REFER TO EL-SCH-600 FOR FURTHER DETAILS.
 - TYPICAL: PROVIDE NEW CIRCUIT AND FINAL CONNECTION TO NEW BARRIER FREE OPERATOR. BARRIER FREE OPERATOR SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. WIRED BY ELECTRICAL.
 - NEW LOCATION OF RECEPTACLES MOUNTED IN CEILING SPACE. COORDINATE WITH THE GENERAL CONTRACTOR ON SITE FOR EXACT LOCATION.
 - TYPICAL: PROVIDE NEW MOTOR RATED SWITCH C/W LOCKABLE TABS AND PILOT LIGHT. WIRING AND CONDUIT TO NEW CONDENSATE PUMP. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION.

ARCHITECTURE | 49


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PARKING AND SITE WORKS.
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TITLE:	GROUND FLOOR WEST POWER & SYSTEMS NEW WORK				
SHEET NUMBER:	EL-L-104				
SHEET #:	6	OF	21		
ISSUE:	ISSUED TO UCDSB FOR ADDENDUM 01				
DATE OF:	27 APRIL 2026	REV #	0		



GROUND FLOOR EAST

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| DATE OF: 27 APRIL 2026 | |
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25mm

