THE KING'S HIGHWAY Nº 2 (LAKESHORE ROAD WEST)

N 38° 21' 50" E 160.22'

27.0' wide WIDENING

27.99'

N 38° 21' 50" E 150.84'

N 46° 45' 50" E 198.96'

27.0' wide WIDENING

N 46° 45' 50" E 197.69'

street line

27.01'

54.86'

LOT 28

LOT 27

107.10'

PLAN M-8

69

LAND TITLES

line as confirmed by Plan BA-148

CONCESSION 4 SOUTH OF DUNDAS STREET

(formerly in the TOWNSHIP OF TRAFALGAR)

now in TOWN OF OAKVILLE

COUNTY OF HALTON

27.80'

4.10'

15.0'

8.15'

6.60'

24.10'

17.63'

18.25'

CONCRETE AND BRICK TOWER UNDER CONSTRUCTION

concrete foundation wall

6.85'

7.12'

4.37'

34.31'

3.83'

28.10'

3.55'

70

N 66°54' 30" W 410.46' by Plan M-8 Land Titles

382.25'

N

73

72

concrete footing

112.57'

UNDERGROUND GARAGE

BUILDING COMPLEX UNDER CONSTRUCTION

UNDERGROUND GARAGE

UNDERGROUND GARAGE

Elevation (Garage Roof 271.5)

173.45'

concrete foundation wall

22.45'

15.15'

8.20'

14.65'

2.70'

5.60'

18.85'

55.50'

concrete foundation wall

18.80'

14.30'

6.80'

4.80'

15.13'

10.80'

8.20'

14.90'

2.05'

21.88'

9.95'

concrete footing

concrete footing

CONCRETE AND BRICK TOWER UNDER CONSTRUCTION

30.51'

30.70'

63.15'

301.43'

N 44° 42' 00" W 328.44'

2220 LRW

4.00'

N 24° 01' 30" E 118.00'

street line

N 89° 18' 30" E 4.10'

arc 91.98' chord 91.74' N 31° 09' 00" E radius 367.00'

radius 367.00'

(℄ of Road 269.5)

MARINE DRIVE

MARINE DRIVE

PLAN SHOWING
PARTS OF LOTS 27 AND 28 CONCESSION 4
SOUTH OF DUNDAS STREET
(FORMERLY IN THE TOWNSHIP OF TRAFALGAR)
NOW IN THE **TOWN OF OAKVILLE**
COUNTY OF HALTON

SCALE 1 INCH = 16 feet

H. D. SEWELL O.L.S. 1971

Additional information of building under construction shown 29th December 1971.

TOWN OF OAKVILLE
ZONING DEPARTMENT
Approved by [signature]
Date: JAN 20 1972

SEWELL AND SEWELL
ONTARIO LAND SURVEYORS
TORONTO
233 ROBINSON STREET, OAKVILLE.
[signature]
H. D. SEWELL
DATE: 30 August 1971. Nº 71-94.

re: Senior Citizens Home
Client: Cosmic Construction Ltd.

2220 Lakeshore Rd W.

2024-06-19

Dear City of Oakville Permit Office:

Subject: 2220 & 2222 Lakeshore Rd. W., Oakville – Make-Up Air Unit Replacement – Structural Letter on the usage of MUA Unit Screens

WSP's Structural group has been engaged to support the larger team's efforts to replace and upgrade rooftop mechanical units at 2220 & 2222 Lakeshore Rd. West in Oakville. Due to the increased size and weight of the units, it was determined necessary to place the larger units on beams bearing on load-bearing walls extending down below the roof (less than 5m from the perimeter roof edge).

Through the permit application process, the plans examiners indicated retroactive application of bylaw requirements to provide screens around the proposed replacement units is required due to the increased heights and size of the units and placement.

WSP has explored screening options, with the involvement of a 3rd party screen designer/engineer. It was determined the only screen solution that would meet the spatial constraints would be to mount and integrate the screens to the mechanical unit's steel framing. However, upon completion of the screen design, it was found that the forces induced on the existing roof structure from the wind loads on the screens created new vertical forces that far exceed the weight of the mechanical units they are meant to conceal. **With that, it has been determined that the existing roof structure cannot withstand the loads from the screens.**

On the basis that that the screening requirement is architectural in nature only providing no functional benefit and given the structural limitations of the existing building, it is our strong recommendation that a variance be granted to permit the mechanical unit installations without complying to the property standards by-law to allow the project to proceed and to achieve the owner's goals of improving the building's efficiency and the quality of air for its senior tenants.

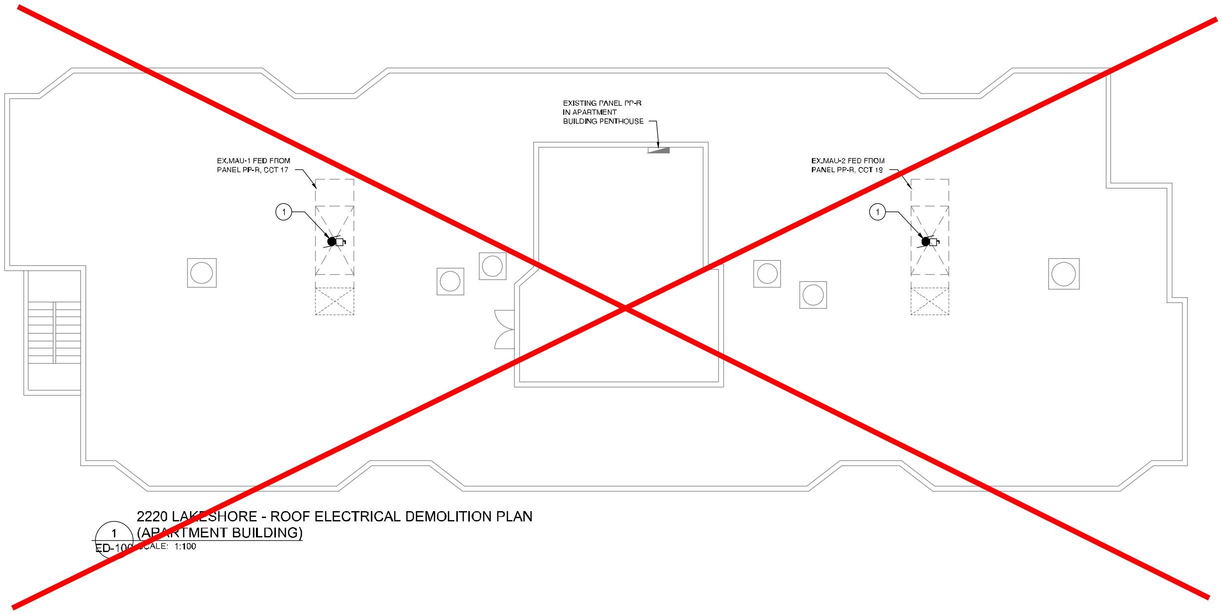
Please reach out should you have any questions,

Regards,

Brant Oldershaw, M.A.Sc., P.Eng
Director, Structures

Suite 300
4 Hughson Street South
Hamilton, ON, Canada L8N 3Z1

T: +1 905 529-4414
F: +1 905 521-2699
wsp.com



2220 LAKESHORE - ROOF ELECTRICAL DEMOLITION PLAN
(APARTMENT BUILDING)
1 / ED-100 SCALE: 1:100

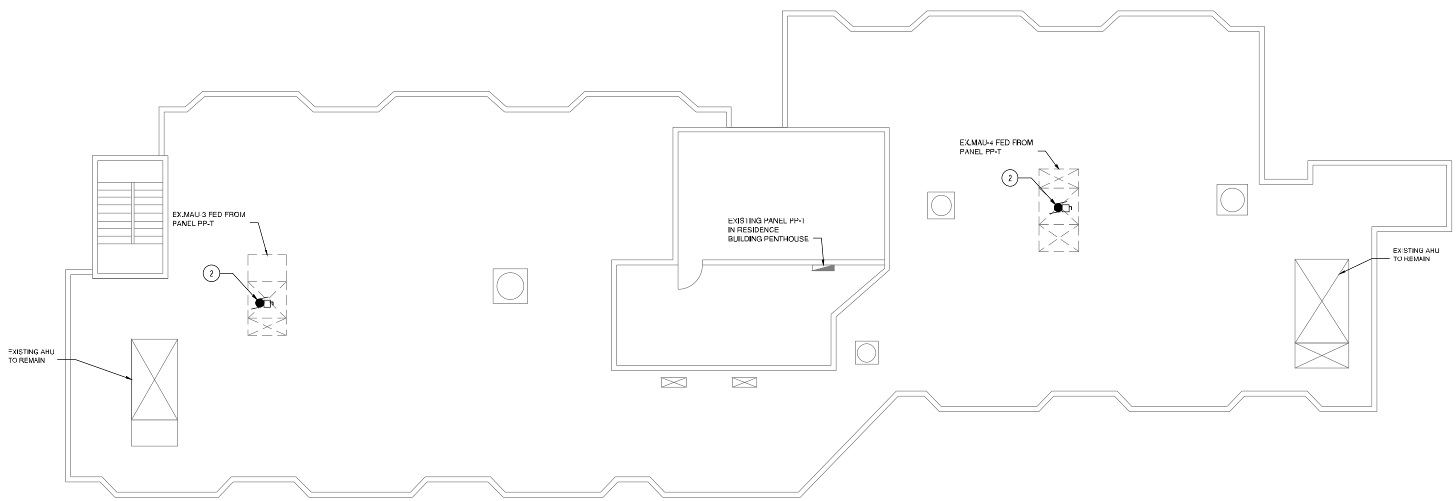
GENERAL NOTES:

1. DEMOLITION WORK IS TO BE COMPLETED IN SUCH A MANNER AS TO MINIMIZE DISRUPTIONS TO NORMAL BUILDING OPERATIONS IN OTHER AREAS. CO-ORDINATE WITH OWNER IF ANY SHUTDOWN OF SERVICES IS REQUIRED TO COMPLETE DEMOLITION WORK.
2. ALL OTHER EXISTING ROOF TOP EQUIPMENT EXCEPT EXISTING MAKE-UP AIR UNITS TO REMAIN UNLESS NOTED OTHERWISE.
3. PROVIDE PROTECTION FOR ALL EXISTING EQUIPMENT AND SERVICES THAT WILL REMAIN DURING CONSTRUCTION.
4. ALL WALL, FLOOR OR ROOF OPENINGS CREATED DURING DEMOLITION SHALL BE PATCHED AND REPAIRED WITH SUITABLE SEALS. USE FIRE RATED SEALS TO MAINTAIN FIRE RESISTANCE RATING OF FIRE RATED WALLS/ CEILINGS AND WEATHER-PROOF SEALS FOR EXTERIOR WALLS AND ROOF AS REQUIRED.

DRAWING NOTES:

(1) DISCONNECT AND REMOVE EXISTING ROOF TOP MAKE-UP AIR UNITS EX-MUA-1 AND EX-MUA-2 C/W WIRING, DISCONNECT SWITCHES AND ALL ASSOCIATED ACCESSORIES BACK TO SOURCE PANEL PP-R IN PENTHOUSE. DISCONNECT AND REMOVE EXISTING 2 x 20A-3P BREAKERS IN PANEL PP-R FEEDING EXISTING MAKEUP AIR UNITS EX-MUA-1 AND EX-MUA-2.

(2) DISCONNECT AND REMOVE EXISTING ROOF TOP MAKE-UP AIR UNITS EX-MUA-3 AND EX-MUA-4 C/W WIRING, DISCONNECT SWITCHES AND ALL ASSOCIATED ACCESSORIES BACK TO SOURCE PANEL PP-T IN PENTHOUSE. EXISTING 2 x 15A-3P BREAKERS IN PANEL PP-T FEEDING EXISTING MAKEUP AIR UNITS EX-MUA-3 AND EX-MUA-4 SHALL REMAIN AND SHALL BE RE-USED FOR NEW UNITS.



2222 LAKESHORE - ROOF ELECTRICAL DEMOLITION PLAN
(RESIDENCE BUILDING)
2 / ED-100 SCALE: 1:100

REV	DATE	DESCRIPTION	BY
4	2024/03/28	ISSUED FOR PERMIT	AE
3	2023/09/20	ISSUED FOR PERMIT	AE
B	2023/03/10	ISSUED FOR CLIENT REVIEW	AE
A	2023/02/08	ISSUED FOR CLIENT REVIEW	HK

SEAL: LICENSED PROFESSIONAL ENGINEER E.N. SAPNU 100178924 2024-03-28 PROVINCE OF ONTARIO

ORIGINAL SCALE: AS NOTED
DATE: 2023/09/20
DESIGNED BY: HK
ASSISTED BY: -
DRAWN BY: HK
MODIFIED BY: ES
APPROVED BY: ES
DISCIPLINE: ELECTRICAL

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

WSP Canada Inc.
1600 Buffalo Place, Winnipeg, Manitoba R3T 6B8
T 204-477-6650 | www.wsp.com

PROJECT NUMBER: 221-09660-00

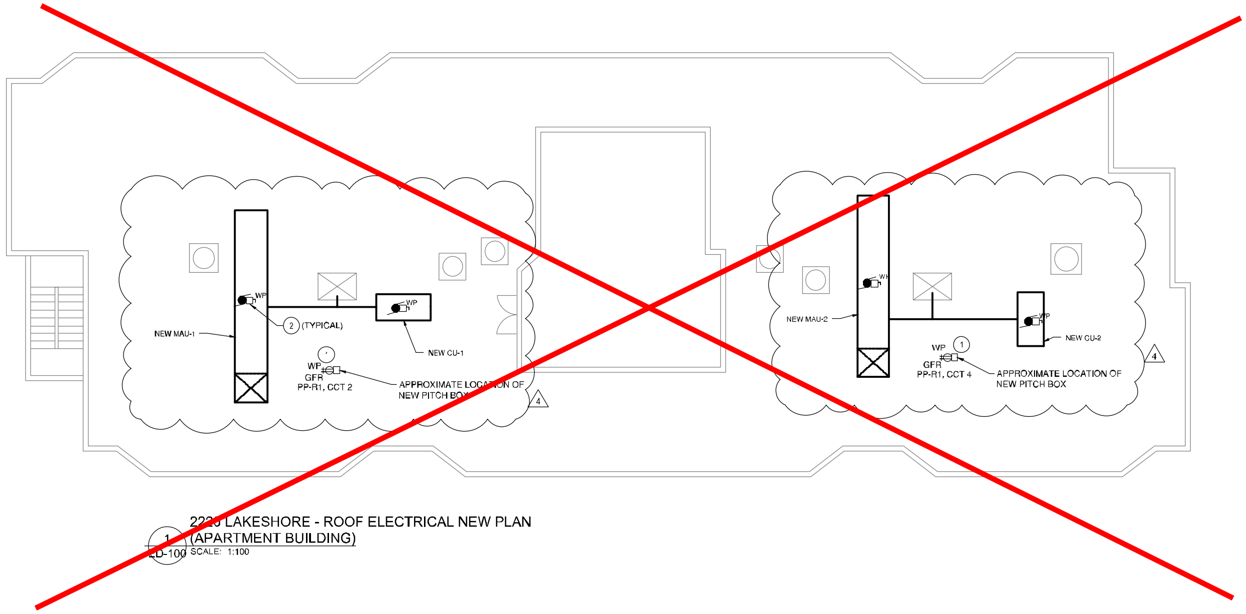
CLIENT: OSCR
CLIENT REF. #: -

TITLE: ROOF ELECTRICAL DEMOLITION PLAN

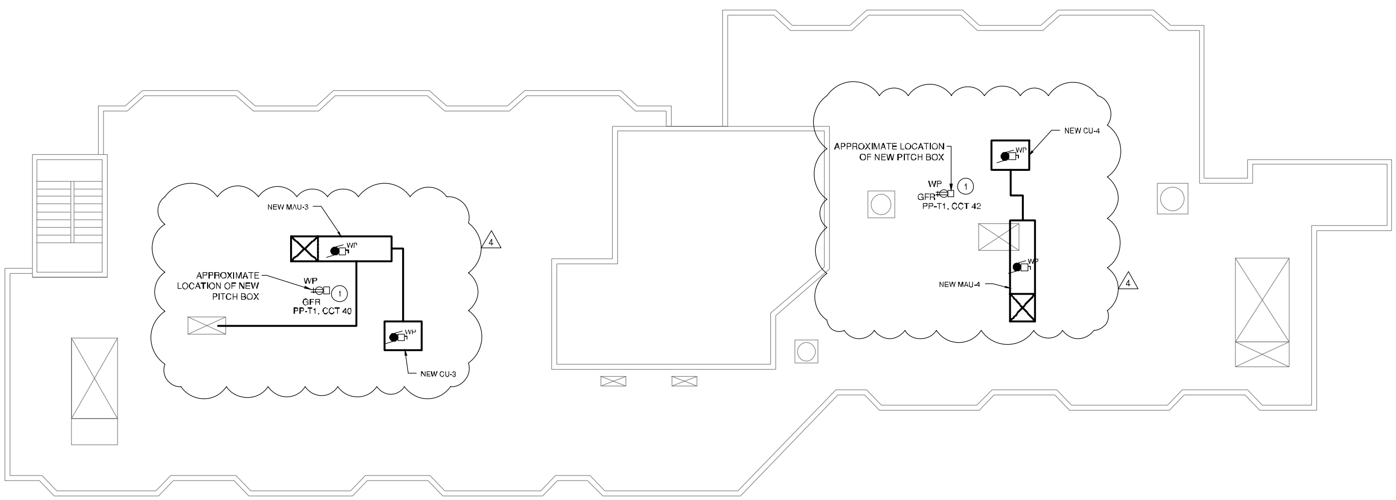
PROJECT: OAKVILLE SENIORS RESIDENCE

DRAWING NUMBER: ED-100
REV.: 4

CTB: wsp-c3d-black-full.ctb
PLOTTED: 2024-03-28 - 2:12 PM



1 / ED-100 2220 LAKESHORE - ROOF ELECTRICAL NEW PLAN (APARTMENT BUILDING)
SCALE: 1:100



2 / ED-100 2222 LAKESHORE - ROOF ELECTRICAL NEW PLAN (RESIDENCE BUILDING)
SCALE: 1:100

GENERAL NOTES:

1. CONSTRUCTION WORK IS TO BE COMPLETED IN SUCH A MANNER AS TO MINIMIZE DISRUPTIONS TO NORMAL BUILDING OPERATIONS IN OTHER AREAS. CO-ORDINATE WITH OWNER IF ANY SHUTDOWN OF SERVICES IS REQUIRED TO COMPLETE DEMOLITION WORK.
2. PROVIDE PROTECTION FOR ALL EXISTING EQUIPMENT AND SERVICES THAT WILL REMAIN DURING CONSTRUCTION.
3. ALL WALL, FLOOR OR ROOF OPENINGS CREATED DURING DEMOLITION SHALL BE PATCHED AND REPAIRED WITH SUITABLE SEALS. USE FIRE RATED SEALS TO MAINTAIN FIRE RESISTANCE RATING OF FIRE RATED WALLS/ CEILINGS AND WEATHER-PROOF SEALS FOR EXTERIOR WALLS AND ROOF AS REQUIRED.

DRAWING NOTES:

(1) MOUNT NEW MAINTENANCE RECEPTACLE ON NEW PITCH BOXES. REFER TO DETAIL 1 ON DRAWING E-103.

(2) MOUNT NEW DISCONNECT SWITCHES ON NEW PITCH BOXES. REFER TO DETAIL 2 ON DRAWING E-103. DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT SHALL BE FIELD INSTALLED EXTERNALLY AND SHALL NOT BE MOUNTED ON THE EQUIPMENT.

(3) NOT USED.

REVISION:

REV	DATE	DESCRIPTION	BY
4	2024/03/28	ISSUED FOR PERMIT	AE
3	2023/09/20	ISSUED FOR PERMIT	AE
2	2023/06/01	ISSUED FOR POST-TENDER ADDENDUM	AE
B	2023/03/10	ISSUED FOR CLIENT REVIEW	AE
A	2023/02/08	ISSUED FOR CLIENT REVIEW	HK

CTB: wsp-c3d-black-full.ctb
PLOTTED: 2024-03-28 - 2:12 PM

SEAL: LICENSED PROFESSIONAL ENGINEER E.N. SAPNU 100178924 2024-03-28 PROVINCE OF ONTARIO

ORIGINAL SCALE: AS NOTED
DATE: 2023/09/20
DESIGNED BY: HK
ASSISTED BY: -
DRAWN BY: HK
MODIFIED BY: ES
APPROVED BY: ES
IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
25mm
DISCIPLINE: ELECTRICAL

WSP Canada Inc.
1600 Buffalo Place, Winnipeg, Manitoba R3T 6B8
T 204-477-6650 | www.wsp.com
PROJECT NUMBER: 221-09660-00

CLIENT: OSCR
CLIENT REF.#: -

TITLE: ROOF ELECTRICAL NEW PLAN

PROJECT: OAKVILLE SENIORS RESIDENCE

DRAWING NUMBER: E-101
REV. 4

GENERAL

THIS IS A METRICPROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS (MM) AND ALL FORCES ARE IN KILONEWTONS (KN).

1."WSP-S" REFERS TO WSP CANADA STRUCTURAL CONSULTANT.

2.PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETION OF THE WORK.

3.PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS, AND WITH EXISTING CONDITIONS.

4.REPORT DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.

5.VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.

6.USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".

7.DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.

8.DO NOT SCALE THESE DRAWINGS.

9.ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.

10.SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING AND FIREPROOFING REQUIREMENTS.

11.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.

12.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.

13.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.

14.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

1.STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2015 ONTARIO BUILDING CODE (OBC), SUPPLEMENTED BY THE USER'S GUIDE – NBC 2020 STRUCTURAL COMMENTARIES.

2.ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION UNLESS DIFFERENT EDITION IS REFERENCED BY THE APPLICABLE BUILDING CODE NOTED ABOVE.

3.THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2015 OBC FOR THE SPECIFIC LOCATION OF OAKVILLE.

4.BASED ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF A NORMAL IMPORTANCE CATEGORY.

5.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 Ix(SLS) / Ix(ULS) GIVEN BELOW.

6.SNOW: Ss = 1.1 kPa; Sr = 0.4 kPa; Is (ULS) = 1.0; Is (SLS) = 0.9
MINIMUM UNFACTORED SNOW LOAD = 1.28 kPa x Is

7.RAIN: 24 HOUR RAINFALL = 97 mm

8.LATERAL LOADS IN THIS STRUCTURE ARE RESISTED BY BRACED FRAMES, AND ARE DETERMINED BASED ON THE WIND AND SEISMIC DATA BELOW.

9.WIND : q50 = 0.47 kPa; Iw (ULS) = 1.0; Iw (SLS) = 0.75
TERRAIN TYPE: OPEN
INTERNAL PRESSURE CATEGORY: 2
13.SEISMIC
Sa (0.2) = 0.26 PGA = 0.134 IeFaSa(0.2) = 0.31
Sa (0.5) = 0.129 Rd = 1.5
Sa (1.0) = 0.062 Ro = 1.3
Sa (2.0) = 0.029 Ie = 1.0
Sa (5.0) = 0.007 SITE CLASSIFICATION = D ()
Sa (10.0) = 0.0027

SEISMIC FORCE RESISTING SYSTEM (SFRS): CONVENTIONAL CONSTRUCTION (SHEAR WALLS)

SHOP DRAWINGS

1.SUBMIT 4 HARD COPIES OR PDF'S OF SHOP DRAWINGS FOR REVIEW BEFORE START OF WORK. PACKAGES TO BE SUBMITTED ARE NOTED IN THE RELEVANT SECTIONS BELOW.

2.ALL SHOP DRAWINGS ARE TO BE REVIEWED AND STAMPED BY THE CONTRACTOR AND THEIR CONNECTION ENGINEER PRIOR TO DISTRIBUTION TO CONSULTANTS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3.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.

4.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.

5.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.

6.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.

7.SHOP DRAWINGS MARKED "REVIEWED" CAN BE USED FOR FABRICATION. DO NOT MAKE ANY CHANGES OR ADDITIONS TO THESE DRAWINGS WITHOUT NOTIFYING THE CONSULTANT.

8.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.

9.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.

10.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.

11.DRAWINGS MARKED "NOT REVIEWED" SHOW WORKS WHICH ARE NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES.

12.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".

FIELD REVIEW

1.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.
2.ASSIST WSP-S DURING FIELD REVIEW AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.

3.CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.

4.NOTIFY WSP-S 48 HOURS PRIOR TO CONCRETE POURS, BACKFILLING, AND COVERING UP THE STRUCTURE WITH FINISHES.

EXISTING STRUCTURE

1.EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY DUNLOP WARDELL MATSUI AITKEN, DATED 6/4/1971.

2.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.

3.EXISTING CONDITIONS ARE ASSUMED. SURVEY THE EXISTING STRUCTURE AFTER REMOVING FINISHES AND REPORT ANY VARIATIONS TO WSP-S BEFORE PROCEEDING WITH THE WORK.

4.TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.

5.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.

6.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.

STRUCTURAL STEEL

1.CONFORM TO CSA S16 "DESIGN OF STEEL STRUCTURES".

2.FABRICATOR TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2, AND/OR CSA W55.3.

3.WELDERS TO BE CWB CERTIFIED. WELDING TO BE IN ACCORDANCE WITH CSA W59.

4.MATERIALS (TO CSA G40.21 UNLESS NOTED OTHERWISE):
-WIDE FLANGE SECTIONS, CHANNELS AND ANGLES: GRADE 350W
-PLATES, BARS: GRADE 300W
-HOLLOW STRUCTURAL SECTIONS (HSS): 350W CLASS C; OR ASTM A500 GRADE C
-GALVANIZED HSS: 350W CLASS H; OTHER GRADES TO BE STRESS RELIEVED PRIOR TO GALVANIZING
-BOLTS, NUTS AND WASHERS: ASTM F3125, GRADE A325
-ZINC-RICH PAINT (ZRP) COATING: SSPC PAINT SPECIFICATION NO. 20
-HOT DIP GALVANIZING: ASTM A123/A123M
-WELDING MATERIALS: CSA W48 AND CSA W59

5.SHOP DRAWINGS FOR STRUCTURAL STEEL, STEEL CONNECTIONS, AND STEEL JOISTS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR DESIGN, RETAINED BY THE CONTRACTOR AND REGISTERED IN THE PLACE THE PROJECT IS LOCATED. ENGINEER TO CARRY MINIMUM $1,000,000 IN LIABILITY INSURANCE.

6.CONNECT BEAMS FOR THE FORCES SHOWN ON DRAWINGS USING THE CISC "HANDBOOK OF STEEL CONSTRUCTION".

7.DO NOT SPLICE SECTIONS WITHOUT PRIOR ACCEPTANCE BY THE CONSULTANT AND SUBMISSION OF PERTINENT SHOP DRAWINGS. ACCEPTED SPLICES TO DEVELOP THE FULL MOMENT CAPACITY OF THE SECTION.

8.DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.

9.DO NOT OVERSIZE ANCHOR ROD HOLES FOR SITE TOLERANCES. USE HOLE SIZES SUGGESTED IN THE CISC "HANDBOOK OF STEEL CONSTRUCTION".

10.PROTECT COMBUSTIBLE MATERIALS AND FINISHES DURING WELDING OPERATIONS.

11.DO NOT WELD IN AMBIENT TEMPERATURES BELOW -18°C. PREHEAT MATERIAL ADJACENT TO WELDING AREAS WHEN WELDING TEMPERATURE IS BETWEEN -18°C AND 0°C.

12.UNLESS OTHERWISE NOTED, CLEAN STEEL TO SSPC SP1 (SOLVENT CLEANING) AND APPLY ONE COAT OF SHOP PAINT.

13.ALL STEEL LOCATED OUTSIDE THE BUILDING ENVELOP'S VAPOUR BARRIER TO BE HOT DIPPED GALVANIZED.

14.CLEAN SURFACES DOWN TO BARE METAL AND APPLY TWO COATS OF TOUCH-UP ZRP TO ANY GALVANIZED OR ZRP SURFACE THAT HAS BEEN DAMAGED OR FIELD WELDED.

15.PROVIDE VENT HOLES IN HSS SECTIONS WHERE REQUIRED FOR GALVANIZING PROCESS. MAXIMUM SIZE 16 (5/8") DIAMETER. FILL WITH VENT HOLE PLUGS AFTER GALVANIZING.

POST-INSTALLED ANCHORS

1.WHERE DRILLED CONCRETE ANCHORS (DCA) OR DRILLED MASONRY ANCHORS (DMA) ARE NOTED ON DRAWINGS, PROVIDE HILTI KWIK BOLT – TZ2 EXPANSION ANCHORS OR APPROVED EQUIVALENT. TIGHTEN USING THE TORQUE SPECIFIED BY THE MANUFACTURER.

2.WHERE ADHESIVE CONCRETE ANCHORS (ACA) ARE NOTED ON DRAWINGS, PROVIDE HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM WITH HILTI HIT-Z ANCHOR RODS OR APPROVED EQUIVALENT.

3.ANCHORS LOCATED OUTSIDE THE BUILDING ENVELOPE'S VAPOUR BARRIER TO BE STAINLESS STEEL.

4.USE DRILLING AND INSTALLATION TOOLS AND PROCEDURES PER MANUFACTURER'S RECOMMENDATIONS. DO NOT CORE DRILL UNLESS SPECIFICALLY NOTED ON DRAWINGS. HOLE DIAMETERS NOT TO EXCEED THOSE REQUIRED BY MANUFACTURER.

5. EMBEDMENT LENGTH FOR POST-INSTALLED HILTI ANCHORS SHALL BE 83mm (3.25") FOR 12mm (1/2") DIAMETER DRILLED CONCRETE ANCHORS.

REJECTED WORK

1.DO NOT DELIVER MATERIALS WHICH ARE KNOWN NOT TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS. IF REJECTED AFTER DELIVERY, REMOVE IMMEDIATELY FROM SITE.

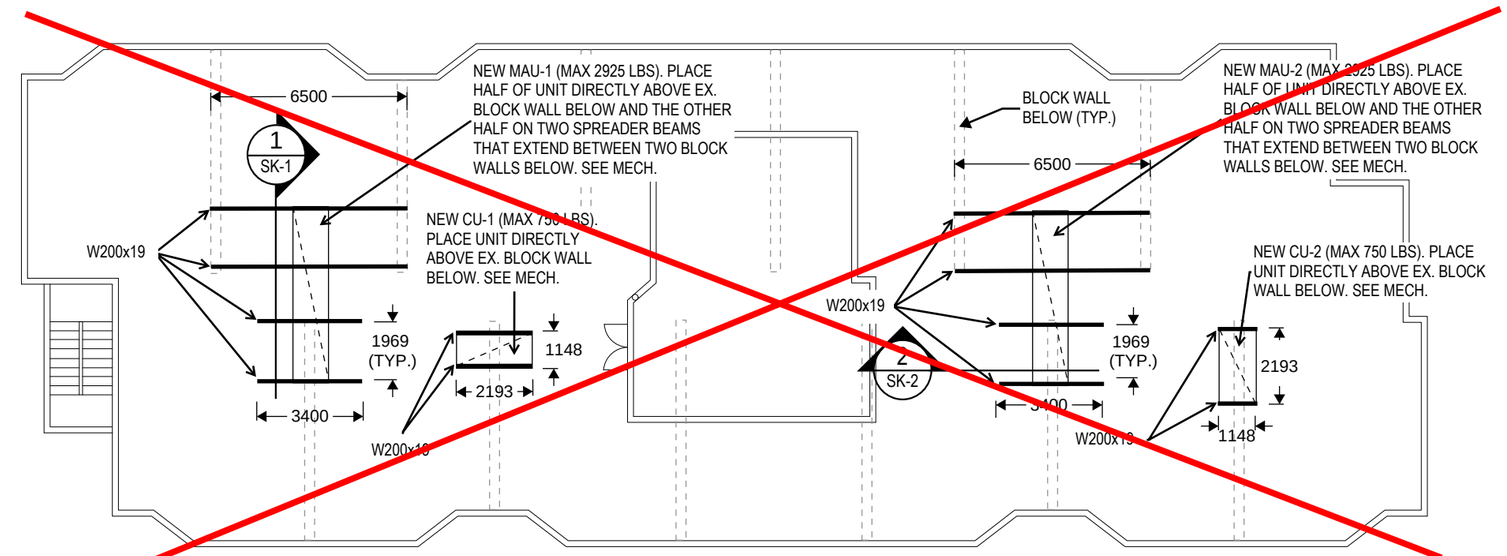
2.ALL WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

wsp
4 Hughson Street South, Suite 300
Hamilton, ON, Canada L8N 3Z1
T 905-529-4414 | wsp.com

SEAL:
LICENSED PROFESSIONAL ENGINEER
2024.03.28
B.E. OLDERSHAW
100146362
PROVINCE OF ONTARIO

PROJECT: ~~2220~~-2222 LAKESHORE RD, OAKVILLE - SENIORS RESIDENCE MAU REPLACEMENT		ISSUED FOR: PERMIT & TENDER
TITLE: GENERAL NOTES		REFERENCE DRAWING: 1/S7 (JUNE 1971 STRUC. SET)
DRAWN BY: JDS/HA/BEO	SCALE: NTS	DATE: 2023 / 03 / 28
CHECKED BY: BEO	PROJECT NO: 221-09660-00	SKETCH NO: **S-1**

DOCUMENT SIZE: 11" x 17"



1 SK-2 2220 LAKESHORE - ROOF PLAN

NTS

ROOF FRAMING PLAN NOTES:

1.SEE GENERAL NOTES AND TYPICAL DETAILS ON S100 SERIES DRAWINGS.

2.ROOF IS LEVEL WITH EXISTING. ASSUMED DATUM ELEVATION IS 0.00.

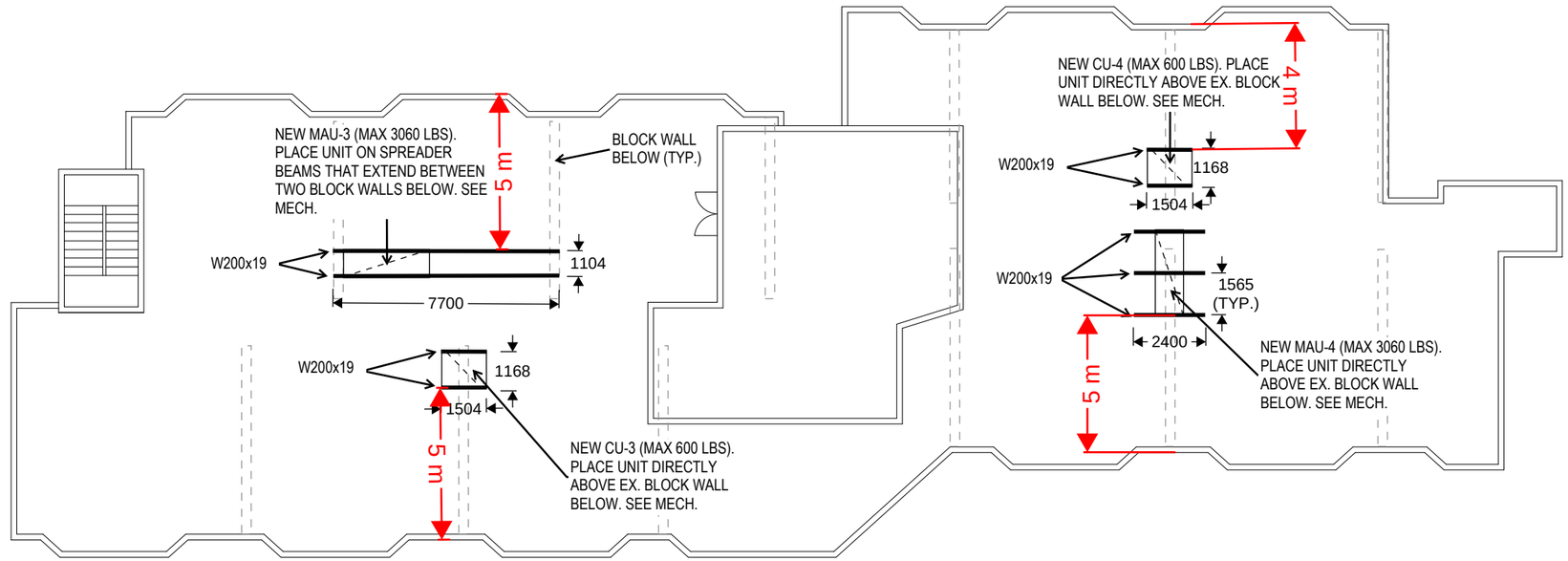
3.UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS ARE:
LIVE LOAD (SNOW) = 1.28 kN/m² MINIMUM + SNOW PILING AREAS NOTED ON PLAN.
LIVE LOAD (RAIN PONDING) IS INDICATED ON PLAN IF AND WHERE IT EXCEEDS SNOW LOAD.

4.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.

5.WHERE CU-1 & CU-2 ARE NOTED ON PLAN, UNITS SHALL BE SUPPORTED ON FRAMES SIMILAR TO DETAILS 1/SK-3 AND 2/SK-3. LENGTH OF SPREADER BEAMS TO EQUAL UNIT WIDTH + 200MM ON EITHER SIDE.

6.ALL STRUCTURAL STEEL AND THEIR CONNECTIONS EXPOSED TO OUTDOOR CONDITIONS TO BE HOT-DIPPED GALVANIZED.

7.CONFIRM ALL DIMENSIONS ON SITE AND WITH LATEST MECH UNIT SHOP DRAWINGS PRIOR TO FABRICATION OF STRUCTURAL FRAMING.



2 SK-2 2222 LAKESHORE - ROOF PLAN

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ROOF FRAMING PLAN NOTES:

1.REFER TO NOTES FOR 1/SK-2

wsp
4 Hughson Street South, Suite 300
Hamilton, ON, Canada L8N 3Z1
T 905-529-4414 | wsp.com

SEAL: LICENSED PROFESSIONAL ENGINEER 2024.03.28 B.E. OLDERSHAW 100146362 PROVINCE OF ONTARIO

PROJECT: ~~2220~~-2222 LAKESHORE RD, OAKVILLE - SENIORS RESIDENCE MAU REPLACEMENT		ISSUED FOR: PERMIT & TENDER
TITLE: ROOF PLANS		REFERENCE DRAWING: 1/S7 (JUNE 1971 STRUC. SET)
DRAWN BY: JDS/HA/BEO	SCALE: NTS	DATE: 2023 / 03 / 28
CHECKED BY: BEO	PROJECT NO: 221-09660-00	SKETCH NO: **S-2**

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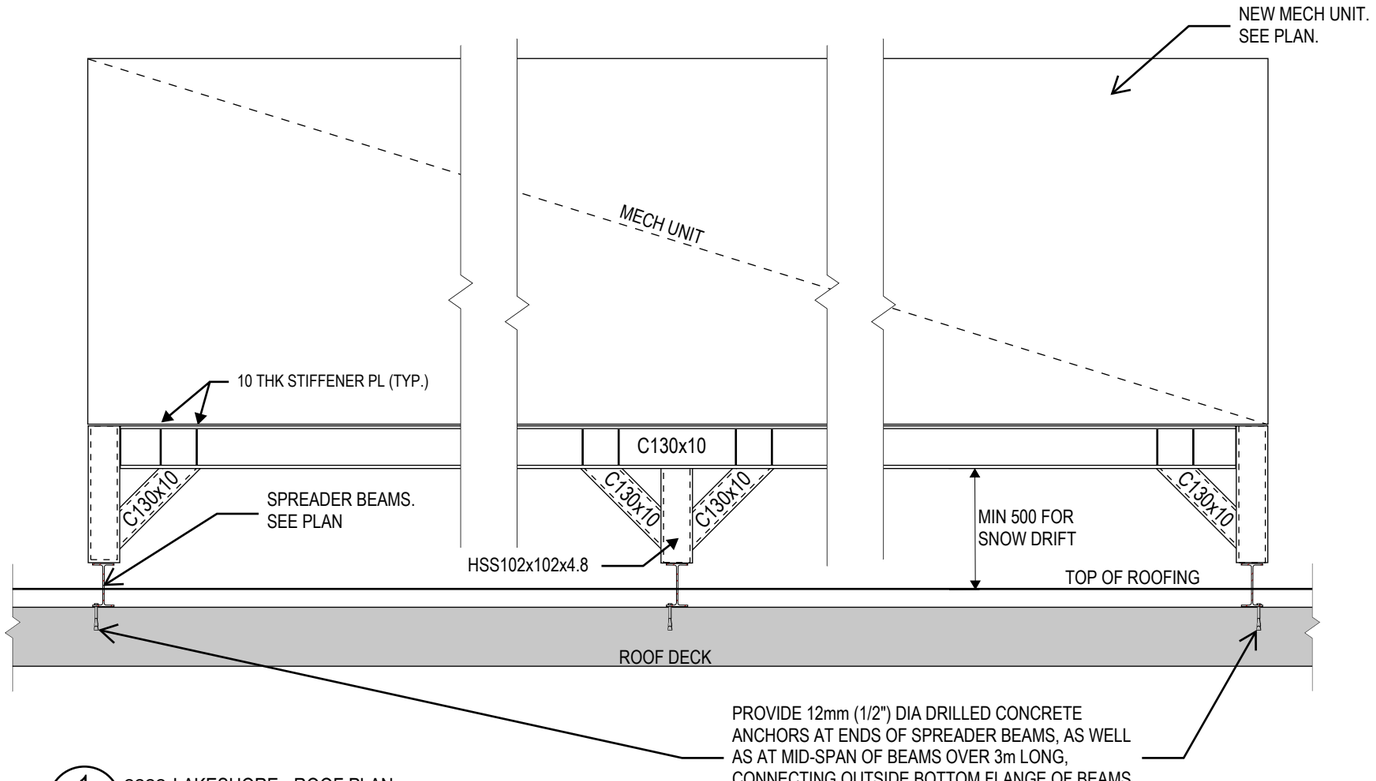

1 / SK-3 2222 LAKESHORE - ROOF PLAN

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NOTE:

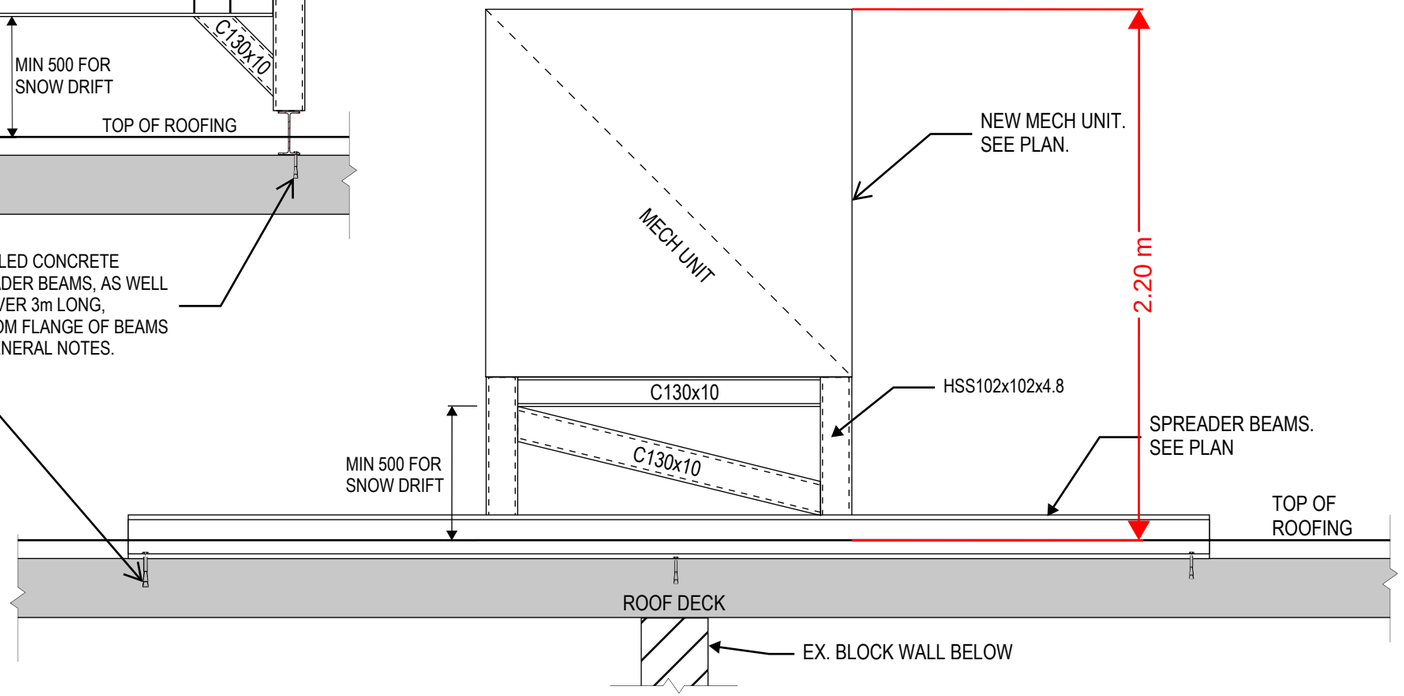
1) ALL STRUCTURAL STEEL AND THEIR CONNECTIONS EXPOSED TO OUTDOOR CONDITIONS TO BE **HOT-DIPPED GALVANIZED**

2) CONTRACTOR TO SITE-VERIFY MECH UNIT LOCATIONS TO ENSURE THEY ARE PLACED DIRECTLY ABOVE THEIR SHEAR WALLS BELOW.

3) DISTANCE BETWEEN TOP OF ROOF AND U/S OF RAISED CURB MUST BE MIN 500 TO ALLOW FOR SNOW DRIF TO PASS BENEATH.

4) PROPOSED METHOD OF RAISING MECH UNIT MAY BE SUPPLEMENTED WITH A MANUFACTURER-SUPPLIED OPTION, PROVIDED IT ALLOWS FOR ADEQUATE PASSAGE OF SNOW DRIFT AND IS REVIEWED AND APPROVED BY WSP-S.

5) SHOP DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR CONNECTIONS, ARE REQUIRED FOR ALL STRUCTURAL STEEL ELEMENTS.



2 / SK-3 2222 LAKESHORE - ROOF PLAN

NTS

NOTE:

1) REFER TO 1/SK-3 NOTES

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Hamilton, ON, Canada L8N 3Z1
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SEAL:

LICENSED PROFESSIONAL ENGINEER
2024.03.28
B.E. OLDERSHAW
100146362
PROVINCE OF ONTARIO

PROJECT: ~~2220~~-2222 LAKESHORE RD, OAKVILLE - SENIORS RESIDENCE MAU REPLACEMENT		ISSUED FOR: PERMIT & TENDER
TITLE: DETAILS		REFERENCE DRAWING: 1/S7 (JUNE 1971 STRUC. SET)
DRAWN BY: JDS/HA/BEO	SCALE: NTS	DATE: 2023 / 03 / 28
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