

**1 KEY PLAN**  
S-1.1 Scale: N.T.S

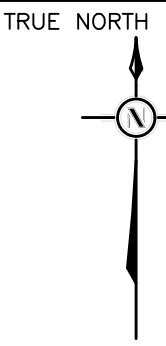
**GENERAL NOTES:**

- CONTRACTOR TO COMPLY WITH DIVISION 1 OF THE SPECIFICATION AND THE FOLLOWING. IN THE EVENT OF CONTRADICTION IN TERMS AND CONDITIONS, THE MORE ONEROUS TERMS AND CONDITIONS SHALL APPLY.
- ALL NOTES HEREIN REFERRING TO 'CONTRACTOR' ARE TO MEAN THE GENERAL CONTRACTOR & SUB-CONTRACTORS.
- DRAWINGS ARE NOT TO BE SCALED.
- ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITION OF THE ONTARIO BUILDING CODE, THE OCCUPATIONAL HEALTH & SAFETY ACT & REGULATIONS FOR CONSTRUCTION PROJECTS, CONSTRUCTION SAFETY ACT, REGULATIONS OF THE ONTARIO MINISTRY OF LABOR & THE CANADIAN CONSTRUCTION SAFETY CODE.
- THE DESIGN DOCUMENTS HAVE BEEN PREPARED ON THE BASIS OF INFORMATION OBTAINED FROM THE GENERAL REVIEW ON SITE AND FROM THE EXISTING DOCUMENTS PROVIDED BY THE CLIENT. THE CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING, THE SITE AND THE SURROUNDING AREAS AND BE FULLY INFORMED AS TO THE CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK HAS TO BE EXECUTED. CLAIMS FOR ADDITIONAL COSTS WILL NOT BE CONSIDERED WITH RESPECT TO CONDITIONS WHICH, IN THE CONSULTANT'S SOLELY OPINION, COULD REASONABLY HAVE BEEN ASCERTAINED BY AN INSPECTION PRIOR TO TENDER.
- IF AMBIGUITIES OR OMISSIONS ARE NOTICED WHEN TENDERING REFER THE SAME TO THE CONSULTANT FOR A RULING AND OBTAIN THE RULING IN WRITING IN THE FORM OF AN ADDENDUM. CLAIMS FOR EXTRAS FOR AMBIGUITIES OR OMISSION OF ITEMS BROUGHT TO THE ATTENTION OF THE CONSULTANT AFTER THE AWARD OF A CONTRACT WHICH, DUE TO THE NATURE OF THE AMBIGUITY OR OMISSION, SHOULD HAVE BEEN BROUGHT TO THE ATTENTION OF THE CONSULTANT DURING THE TENDERING PERIOD, WILL NOT BE CONSIDERED.
- PLANS OF EXISTING CONDITIONS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, LOCATION ARRANGEMENTS, SIZES & SITE CONDITIONS, COMPARE WITH THOSE INDICATED ON THE DRAWINGS & ADVISE THE CONSULTANT OF ANY DISCREPANCY. COMMENCEMENT OF WORK SHALL BE DEEMED AS ACCEPTANCE OF SITE CONDITIONS BY CONTRACTOR.
- DISCREPANCIES IDENTIFIED AFTER COMMENCEMENT OF THE WORK SHALL BE RECTIFIED AT THE EXPENSE OF THE CONTRACTOR & TO THE SATISFACTION OF THE CONSULTANT.
- CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING STRUCTURES, FINISHES, EQUIPMENT & PROPERTIES ADJACENT THE AREAS OF WORK.
- ALL DISTURBED AREAS, DAMAGED PROPERTIES AND/OR STRUCTURES SHALL BE RESTORED TO ORIGINAL CONDITIONS AT THE EXPENSE OF THE CONTRACTOR & TO THE SATISFACTION OF THE CONSULTANT AND OWNER.
- ALL SERVICES ARE TO BE ACCURATELY LOCATED PRIOR TO CONSTRUCTION & ADEQUATE PROTECTION PROVIDED AT ALL TIMES. ANY INTERFERENCE TO EXISTING SERVICES OR UTILITIES WITH THE PROPOSED CONSTRUCTION OPERATIONS IS TO BE REPORTED TO THE CONSULTANT PRIOR TO THE CONTINUATION OF CONSTRUCTION.
- ALL DEMOLITION WORK, SAWING, GRINDING, OR SANDING WHICH MAY CAUSE DUST, EXCESSIVE NOISE LEVELS AND/OR INTERFERE WITH NORMAL BUSINESS OPERATIONS SHALL BE UNDERTAKEN AT THE SPECIFIED TIMES OUTLINED BY THE OWNER: AFTER HOURS OR WEEKENDS.
- REFER TO CONTRACT SPECIFICATIONS, GENERAL CONDITIONS & REQUIREMENTS FOR ADDITIONAL WORK RESTRICTIONS.
- ALL MATERIALS INDICATED ON THE DRAWINGS ARE NEW UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING AND SUPPORTS WHERE SPECIFIED OR AS REQUIRED.
- CONTRACTOR TO FOLLOW ALL MANUFACTURER'S INSTRUCTIONS & SPECIFICATIONS FOR MATERIALS USED TO CARRY OUT THE WORK.
- ALL REPAIR WORK REQUIRED BY THE CONTRACTOR DUE TO THE WORK PERFORMED SHALL MATCH THE ORIGINAL CONDITION, ADJACENT MATERIALS/FINISH OR BETTER.
- THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD PROPER & SAFE MEANS OF EGRESS SHALL BE PROVIDED FROM ALL ZONES OF THE BUILDING AT ALL TIMES TO THE APPROVAL OF THE AUTHORITIES HAVING JURISDICTION.
- ALL MATERIALS & DEBRIS TO BE DISPOSED OF SHALL BE REMOVED FROM THE SITE DAILY & DISPOSED OF LEGALLY IN ABIDANCE TO ALL APPLICABLE FEDERAL, PROVINCIAL & LOCAL CODES & REGULATIONS.
- CONTRACTOR TO PROTECT EXISTING AREAS TO PREVENT DUST, DEBRIS & OTHER REFUSE FROM ENTERING OTHER AREAS DURING DEMOLITION. PROVIDE DUST BARRIER AROUND ALL AREAS UNDER CONSTRUCTION.
- CONSULTANT MAY REVIEW SITE DURING DEMOLITION TO VERIFY EXISTING CONDITIONS. CONTRACTOR TO PROVIDE 48 HOURS NOTICE FOR INSPECTION.
- WHERE NEW WORK CONNECTS WITH EXISTING & WHERE EXISTING WORK IS ALTERED, ALL NECESSARY CUTTING & FITTING REQUIRED TO MAKE SATISFACTORY CONNECTIONS WITH THE EXISTING WORK SHALL BE INCLUDED IN THE TENDER AND PERFORMED BY THE CONTRACTOR.
- APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, EXCEPT FOR BUILDING PERMIT, AND INSPECTIONS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION INCLUDING PROVINCIAL AND FEDERAL SALES TAXES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SCHEDULE TO MEET THE PROJECT COMPLETION DATE AND ALL SPECIFIED INTERIM SCHEDULES AS PROVIDED BY THE OWNER. UNDER NO CIRCUMSTANCES SHALL THE CONSTRUCTION WORK INTERFERE WITH OWNER'S OPERATION SCHEDULE.
- INCLUDE COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DONE DURING NIGHTS AND/OR OTHER OUTSIDE NORMAL WORKING HOURS NECESSARY TO MEET THE CONSTRUCTION SCHEDULE AND INSURE THE QUALITY OF WORK.
- PROVIDE PROPER SHOP DRAWINGS OF ALL SPECIFIED PRODUCTS AND SUBMIT FOR APPROVAL TO THE CONSULTANT.
- PROCEDURES FOR SUBMITTALS OF ALTERNATE MATERIALS AND PRODUCTS OR THEIR SUBSTITUTIONS SHALL FOLLOW CITY OF CAMBRIDGE FRONT END DOCUMENTS AND INDUSTRY STANDARD, I.E. DURING THE TENDER PHASE THE INTERESTED PARTIES CAN SUBMIT AN ALTERNATE TO THE CONSULTANT FOR CONSIDERATION. THIS IS A TIME SENSITIVE CONSIDERATION. IF APPROVED THEN AN ADDENDUM WILL BE ISSUED WITH THE APPROVED PRODUCT/MATERIAL. DURING PROGRESS OF WORK, SUBSTITUTE PRODUCTS WILL ONLY BE CONSIDERED WHEN TENDERED PRODUCTS BECOME UNOBTAINABLE AND WRITTEN PROOF IS SUBMITTED.

- THE QUALITY AND PERFORMANCE CHARACTERISTICS OF SUBSTITUTE PRODUCTS SHALL BE EQUAL TO THE SPECIFIED PRODUCTS. IMPLEMENTATION OF SUBSTITUTE PRODUCTS IS SUBJECT TO THE REVIEW OF PROPERLY SUBMITTED SHOP DRAWINGS BY THE CONSULTANT.
- ASSUME RESPONSIBILITY AND PAY FOR ANY ADDITIONAL INSTALLATION COSTS INCURRED BY ALL DIVISIONS RESULTING FROM THE ALTERNATES AND/OR SUBSTITUTIONS. MAKE REVISIONS TO RECORD DRAWINGS INCORPORATING ALL ALTERNATES AND/OR SUBSTITUTIONS AND ALL RELATED CHANGES.
- PROVIDE A COMPLETE COST BREAKDOWN OF ALL MATERIALS, EQUIPMENT AND LABOR COSTS ASSOCIATED WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK. CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE CONSTRUCTION WORK AND ARRANGE THE WORK IN PROPER RELATION WITH EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL, PROPOSED METHOD OF ACCESS TO SITE & BUILDING, STORAGE OF MATERIALS & LOCATION OF GARBAGE BINS AND SITE TRAILERS AS APPLICABLE BEFORE STARTING SCOPE OF WORK.
- CONTRACTOR TO MAINTAIN A LIST OF ALL MATERIALS PROPOSED FOR USE ON SITE OR WORKPLACE AND PROVIDE WHIMIS SHEETS.
- SMOKING ON SITE IS STRICTLY PROHIBITED.
- NOTE THAT THE PREMISES MAY BE OCCUPIED DURING CONSTRUCTION, THEREFORE IT IS ESSENTIAL THAT UNIMPEDED ACCESS TO THE EXISTING PROPERTY (EXCEPT FOR AREAS ENCLOSED FOR CONSTRUCTION) BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL ARRANGE WITH THE OWNER FOR USE OF EXISTING ELECTRICAL SERVICE, TO THE EXTENT THAT THERE IS SUFFICIENT CAPACITY, TO AVOID OVERLOADING OF CIRCUITS. WHERE CAPACITY IS INSUFFICIENT, CONTRACTOR IS TO PROVIDE TEMPORARY ELECTRICAL SERVICE AT ITS OWN EXPENSE.
- FINAL CLEANING OF ALL AREAS AFFECTED BY THE CONSTRUCTION SHALL INCLUDE BUT NOT BE LIMITED TO VACUUMING, WASHING & POLISHING OF FLOORS, CLEANING OF GLASS SURFACES & OTHER MEASURES DEEMED NECESSARY BY THE OWNER OR CONSULTANT.
- DAILY CLEANING REQUIRED TO BE THE SAME AS FINAL.
- A LIST OF ALL CONTRACTOR & SUB-CONTRACTOR PERSONNEL ON SITE MUST BE FORWARDED TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK COMPLETE WITH PROPER SECURITY CHECK INFORMATION.
- THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW & APPROVAL PRIOR TO COMMENCEMENT OF WORK:
  - CERTIFICATES OF INSURANCE
  - BONDS
  - DETAILED BAR GRAPH FORMAT WORK SCHEDULE
  - SAMPLES OF ALL SPECIFIED MATERIALS
  - SHOP DRAWINGS & PRODUCT DATA
  - COLOUR SAMPLES
  - STATUTORY DECLARATION
  - WORKERS COMPENSATION CERTIFICATE OF CLEARANCE
- ALL DEFICIENCIES MUST BE RECTIFIED WITHIN 2 WEEKS UPON NOTICE ISSUED BY THE OWNER. THE OWNER MAY HAVE THE DEFICIENCIES COMPLETED BY OTHERS AT THE CONTRACTOR'S EXPENSE IF THE DEFICIENCIES ARE NOT CORRECTED WITHIN THIS TIME LIMIT.
- PROVIDE THE OWNER WITH A WRITTEN WARRANTY, FOR ALL LABOR, MATERIALS, AND EQUIPMENT IN THIS CONTRACT, FOR A PERIOD OF TWO YEARS OR LONGER TIME AS OTHERWISE SPECIFIED BY THE CONSULTANT, COMMENCING AT SUCH TIME AS THE OWNER, OR THE CONSULTANT DEEMS THE WORK ACCEPTABLE.

**STRUCTURAL ABBREVIATIONS**

A BOLT	ANCHOR BOLT	EXT	EXTERIOR	OPEN	OPENING
ADJ	ADJUSTABLE	f c	28 DAYS CONCRETE	OWSJ	OPEN WEB STEEL JOIST
AESS	ARCHITECTURAL EXPOSED	FDN	COMPRESSIVE STRENGTH	PF	AXIAL FORCE (FACTORED)
	STRUCTURAL STEEL	FF	FOUNDATION	PC	PRECAST
AFF	ABOVE FINISHED FLOOR	FL	FAR FACE	PL	PLATE
AFB	ASPHALT IMPREGNATED FIBREBOARD	FIN	FINISHED FLOOR	PLF	POUNDS PER LINEAR FOOT
ALT	ALTERNATE	F.L	FINISHED FLOOR LEVEL	PROJ	PROJECTION
ARCH	ARCHITECTURAL	FT	FOOT, FEET	PSF	POUNDS PER SQUARE FOOT
ASL	ADDITIONAL ACCUMULATED SNOW LOAD	FTG	FOOTING	PT	PRESSURE TREATED
@	AT	Fy	YIELD STRENGTH	RD	ROOF DRAIN
B, BOTT	BOTTOM	GA	GAUGE	RF	REACTION (FACTORED)
B/B	BACK TO BACK	GALV	GALVANIZED	RAD	RADIUS
BEW	BOTTOM EACH WAY	GEN	GENERAL	REINF	REINFORCED, REINFORCEMENT
B/F	BARRIER FREE	G.W.B	GYPSUM BOARD	REF	REFERENCE
BH	BOREHOLE	HEF	HORIZONTAL EACH FACE	RE	RIGHT END
BL	BOTTOM LOWER LAYER	Hf	HORIZONTAL FORCE (FACTORED)	REQ'D	REQUIRED
BLDG	BUILDING	HH	HOOK EACH END	REV	REVISION, REVISED
BM	BEAM	HIF	HORIZONTAL INSIDE FACE	R/O	ROUGH OPENING
BPL	BEARING/BASE PLATE	H/M	HOLLOW METAL	R/W	REINFORCED WITH
BRDG	BRIDGING	HOF	HORIZONTAL OUTSIDE FACE	SDF	STEP DOWN FOOTING
BUL	BOTTOM UPPER LAYER	H, HORZ	HORIZONTAL	SECT	SECTION
c	CAMBER	HSC	HORIZONTALLY SLOTTED CONNECTION	SIM	SIMILAR
c/c, o/c	CENTRE TO CENTRE	HSS	HOLLOW STEEL SECTION	SL	SLAB
CA	COLUMN ABOVE	IF	INSIDE FACE	SOG	SLAB ON GRADE
CB	COLUMN BELOW	IN	INCH(ES)	SPDD	STANDARD PROCTOR DRY DENSITY
CBW	CONCRETE BLOCK WALL	INT	INTERIOR	ST	STRAIGHT
CANT	CANTILEVER	JT	JOINT	STIFF	STIFFENER
Cf	COMPRESSIVE FORCE (FACTORED)	K	KIP, 1000 LBS	STIR	STIRRUP
CJ	CONTROL JOINT	K-ft	KIP FEET	STRUCT	STRUCTURAL
CL	CLEAR	kg	KILOGRAM(S)	STD	STANDARD
CL, C	CENTRELINE	KLF	KIPS PER LINEAR FOOT	STL	STEEL
CMU	CONCRETE MASONRY UNIT	KN	KILONEWTON	SQ	SQUARE
COL	COLUMN	KN-m	KILONEWTON METRE	S.S.	STAINLESS STEEL
COMP	COMPOSITE	KN/m	KILONEWTON PER METRE	T	TOP
CONC	CONCRETE	KPa	KILOPASCAL	T/O	TOP OF...
CONT	CONTINUOUS	KSF	KIPS PER SQUARED FOOT	TF	TENSILE FORCE (FACTORED)
C/W	COMPLETE WITH	KSI	KIPS PER SQUARED INCH	TEMP	TEMPORARY, TEMPERATURE
DEMO	DEMOLITION	L	SINGLE ANGLE	TEW	TOP EACH WAY
DIA, Ø	DIAMETER	LE	LEFT END	TJ	TIE JOIST
DIAG	DIAGONAL	LG	LONG	TLL	TOP LOWER LAYER
DIM	DIMENSION	LL	LIVE LOAD, LOWER LAYER	TMF	TORSIONAL MOMENT (FACTORED)
DL	DEAD LOAD	LLH	LONG LEG HORIZONTAL	TOD	TOP OF DECK
DP	DEEP	LLV	LONG LEG VERTICAL	TOS	TOP OF STEEL/SLAB
DWG(S)	DRAWING(S)	m	METRE	TRANS	TRANSVERSE
DWL(S)	DOWEL(S)	MC	MOMENT CONNECTION	TUL	TOP UPPER LAYER
DN	DOWN	MECH	(FULL MOMENT UNLESS NOTED)	TYP	TYPICAL
EA	EACH	Mf	MECHANICAL	UL	UPPER LAYER
EE	EACH END	ML	MOMENT (FACTORED)	U/N	UNLESS NOTED OTHERWISE
EF	EACH FACE	mm	MIDDLE LAYER	U/S	UNDERSIDE
ELEC	ELECTRICAL	Mpa	MILLIMETRE	V, VERT	VERTICAL
EL	ELEVATION	Mxf	MEGAPASCAL	Vf	VERTICAL SHEAR FORCE (FACTORED)
ELEV	ELEVATOR	Myf	BENDING MOMENT	VBf	VERTICAL BRACED FRAME
EMBED	EMBEDMENT		ABOUT x-x AXIS (FACTORED)	VEF	VERTICAL EACH FACE
EQ	EQUAL		BENDING MOMENT	VIF	VERTICAL INSIDE FACE
ES	EACH SIDE	MTL	ABOUT y-y AXIS (FACTORED)	VOF	VERTICAL OUTSIDE FACE
EX, EXIST	EXISTING	NF	METAL	VSC	VERTICALLY SLOTTED CONNECTION
EJ, EXP JT	EXPANSION JOINT	NIC	NEAR FACE	W	WIDE FLANGE BEAM
E-W	EAST WEST	NTS	NOT IN CONTRACT	/W	WITH...
EW	EACH WAY	N-S	NORTH-SOUTH	WT	WEIGHT, STRUCTURAL TEE
		N/C	NOT TO SCALE	WWF	WELDED WIRE FABRIC OR WELDED WIDE FLANGE
		OF	NOT IN CONTRACT	W.P.	WORKING POINT
			OUTSIDE FACE		

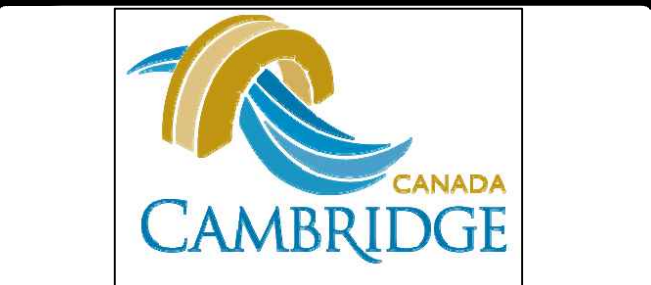


No.	Date	Description
2	10.07.2022	ISSUED FOR FINAL REVIEW
1	07.11.2022	ISSUED FOR CLIENT 75% REVIEW
REVISIONS		
PLOT SCALE: 1=1		

CONTRACTOR WILL CHECK AND VERIFY ALL DIMENSIONS AND CHECK ALL JOB CONDITIONS ON THE JOB BEFORE PROCEEDING WITH THE WORK.

STAMP	STAMP
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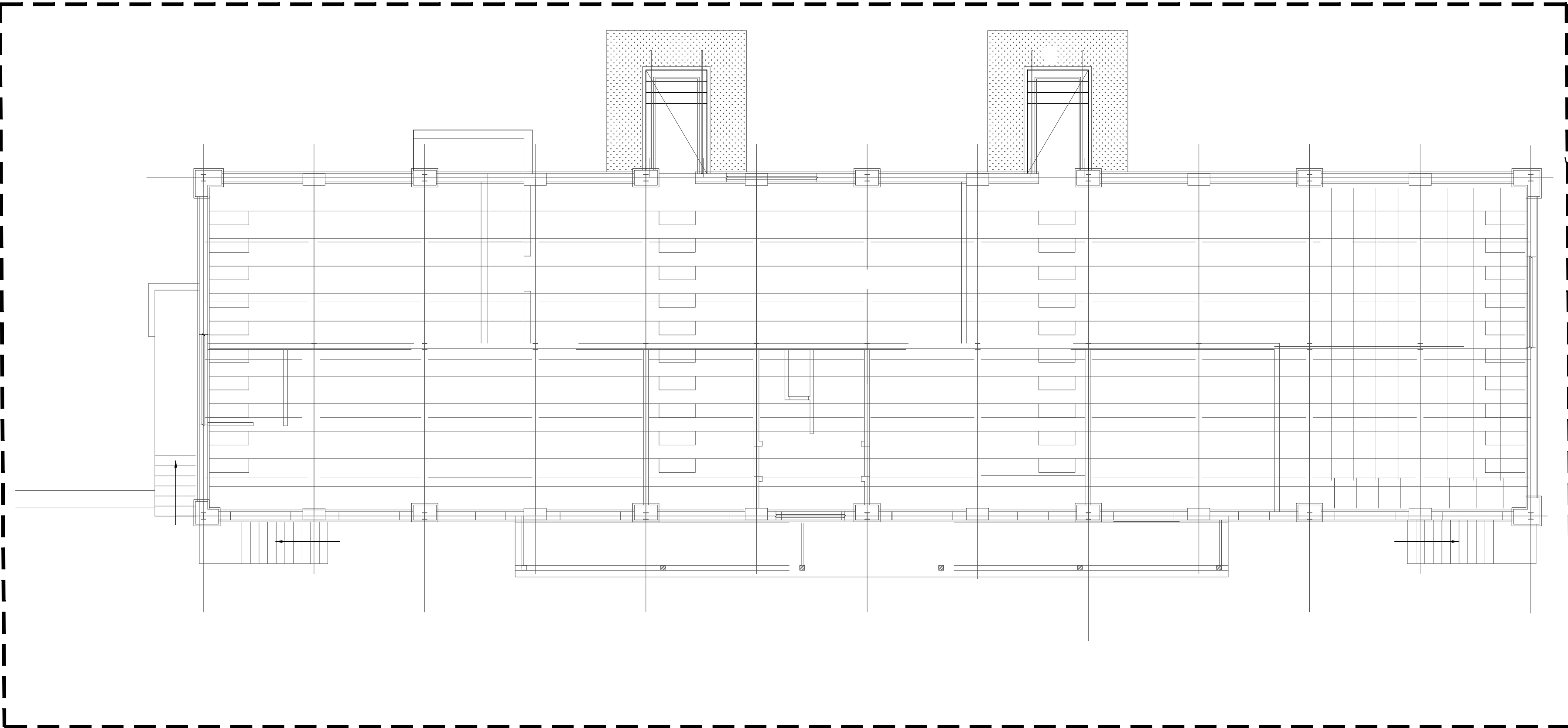
PROJECT  
**DICKSON STADIUM RENOVATION**

LOCATION  
30 PARK HILL ROAD WEST,  
CAMBRIDGE, ON N1S 1C9

KEY PLAN, SITE PLAN  
AND GENERAL NOTE

SCALE AS SHOWN FULL SIZE ONLY DRAWN BY B.L./J.M.	JOB No. 6475
CHECKED BY J.H.	DRAWING NO. S-1.1
DATE JUNE, 2022	
CAD FILE 6475 Dickson.dwg	

**2 SITE PLAN**  
S-1.2 Scale: 1:100





GENERAL NOTES:

1. THE BUILDING STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012.
2. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
3. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF OPENINGS, EQUIPMENT BASES, SUMP PITS, AND TRENCHES NOT INDICATED ON STRUCTURAL DRAWINGS.
5. SEE DRAWINGS FOR DESIGN LOADS, DO NOT EXCEED DURING CONSTRUCTION.
6. ALL REFERENCES TO CODES & STANDARDS ARE TO THE CURRENT ISSUE.
7. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A SAFETY SUPPORT PRIOR TO REMOVE ANY EXIST. WALLS & OTHER STRUCTURAL MEMBERS.

SITE INSPECTION REPORTS & TESTING

1. THE ONTARIO BUILDING CODE 2012 SPECIFIES THAT GENERAL FIELD REVIEWS OF THE BUILDING BE CARRIED OUT DURING THE COURSE OF CONSTRUCTION. TO FACILITATE THESE FIELD REVIEWS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION OF THE STRUCTURAL ELEMENTS THAT ARE TO BE REVIEWED.
2. THIRD PARTY INSPECTION AND TESTING REPORTS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER BY THE GENERAL CONTRACTOR FOR THE FOLLOWING:

A) REINFORCING STEEL PLACEMENT.

B) CONCRETE CYLINDER TEST REPORTS FOR ALL STRUCTURAL CONCRETE (FOOTING, FOUNDATION WALLS AND EXTERIOR STAIRS/SLAB ON GRADE).

C) SOIL BACKFILL COMPACTION.

D) STRUCTURAL STEEL, ERECTION, PLUMB, BOLTING STEEL AND FIELD WELDS.

E) STEEL DECK FASTENING.

F) OTHER ITEMS THAT MAY BE IDENTIFIED DURING GENERAL FIELD REVIEWS BY THE ENGINEER.

SHOP DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING SHOP DRAWINGS TO THE STRUCTURAL ENGINEER, STAMPED BY A ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO UNLESS NOTED.
- A. FOOTING AND FOUNDATION LAYOUT AND DETAILS.
- B. REINFORCING STEEL PLACING DRAWINGS AND BAR LISTS. NOT ENGINEER STAMP IS REQUIRED.
- C. CONCRETE MIX DESIGNS INCLUDING A BRIEF DESCRIPTION OF WHERE EACH MIX WILL BE USED. NO ENGINEER STAMPED REQUIRED.
- D. STRUCTURAL STEEL ERECTION DRAWINGS INCLUDING WELDS, BOLTS
- E. AND OTHER DETAILS NECESSARY FOR A COMPLETE INSTALLATION OF F. THE PROPOSED STEEL WORK
- G. MISCELLANEOUS METALS, GUARD/HANDRAILS AND CONNECTION DETAILS.
- H. TEMPORARY SHORING DRAWINGS

CAST-IN-PLACE CONCRETE

1. CONFORM TO CSA STANDARD A23.1, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION, A23.2, METHODS OF TEST FOR CONCRETE AND A23.3, DESIGN OF CONCRETE STRUCTURES IN DETAILING BENDS, PLACEMENT, SPACING, SPLICING AND PROTECTION OF REINFORCING.
2. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS U.N.O. LOCATION

STRUCTURAL ELEMENT AND EXPOSURE	EXPOSURE CLASS PER CAS A23.1	CONCRETE STRENGTH f'c (MPa)	SLUMP (mm)	MAX. W/C RATIO	AIR CONTENT
EXTERIOR STAIR FOOTINGS, SLABS & FOUNDATION WALLS ***	C-1	35	80	0.40	5%-8%
LANDSCAPING RETAINING WALL	C-1	32	60	0.45	5%-8%

TOLERANCE FOR SLUMP SHALL BE +/-20mm FOR SPECIFIED SLUMP LESS THAN 80mm AND +/-30mm FOR SPECIFIED SLUMP BETWEEN 80mm AND 170mm.

- \* SPECIAL CONCRETE ANDLING AND PLACING AND PLACING METHODS OR THE USE OF A SUPER PLASTICIZER WILL BE REQUIRED TO PLACE THEIS CONCRETE. FINAL PLASTICIZED SLUMP SHALL BE +/-125mm.
- \*\* WHERE AGGREGATES SMALLER THAN 14mm ARE USED. INCREASE AIR CONTENT BY 1%.
- \*\*\* CONCRETE EXPOSED TO DE-ICING CHEMICALS SHALL HAVE DEI TYPE N CORROSION INHIBITOR @ 1L/m³ DOSAGE OR APPROVED EQUIVALENT.
3. ALL REINFORCING STEEL SHALL BE BILLET STEEL BARS FOR CONCRETE REINFORCEMENT IN ACCORDANCE WITH CSA STANDARD G30.18, BILLET STEEL BARS FOR CONCRETE REINFORCEMENT, GRADE 400R Fy=400MPa.
4. WELDED WIRE FABRIC SHALL CONFORM TO CSA STANDARD G30.5, WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT.
5. CONCRETE COVER FOR REINFORCING STEEL BARS AND PLACING TOLERANCES SHALL BE IN ACCORDANCE WITH CSA STANDARD A23.1.

STRUCTURAL METAL

1. CONFORM TO CSA STANDARD CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
2. CONFORM TO CSA STANDARD W55.3, RESISTANCE WELDING QUALIFICATIONS CODE FOR FABRICATORS OF STRUCTURAL MEMEBERS USED IN BUILDINGS.
3. CONFORM TO W59, WELDED STEEL CONSTRUCTION (METAL ARC WELDING).
4. WELDING ELECTRODES – CSA STANDARD W48 FILLER METALS AND ALLIED MATERIALS FOR METAL ARC WELDING.
5. STRUCTURAL STEEL – CSA STANDARD CAN/CSA G40.20/ G40.21, GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL/STRUCTURAL QUALITY STEELS. GRADE 350W FOR GENERAL PURPOSE STRUCTURAL STEELS SHAPES, 300W FOR ANGLES, CHANNELS, RODS AND PLATES. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO CSA STANDARD G40.20 GRADE 350W. CLASS H.
6. HIGH STRENGTH BOLTS, NUTS AND WASHERS A.S.T.M. STANDARD A325, SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED 120/105 ksi MINIMUM TENSILE STRENGTH OR A325M-93, SPECIFICATION FOR HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS (METRIC).
7. PRIMER: GREY

A) STRUCTURAL STEEL NOT EXPOSED: CAN/CG5B-1.40 OR CISC/CPMA 1-73a OVER NOMINAL CLEANING.

B) STRUCTURAL STEEL INTERIOR EXPOSURE: TO RECIEVE A TOP COATING – CISC/CPMA 2-75 OVER BRUSH OFF BLAST CLEANING AS PER SSPC 7.

C) STRUCTURAL STEEL TO RECIEVE SPRAY FIRE PROOFING – NO PAINT.

D) REGIONS OF STEEL TO RECEIVE FIELD WELDING – NO PAINT. PRIMER AFTER FIELD WELDING.

E) HOT DIPPED GALVANIZED AS PER CAN/CSA-G164, HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES.

STEEL DECKING

1. DETERMINE STRUCTURAL PROPERTIES AND CAPACITY OF DECKING IN ACCORDANCE WITH CSA STANDARD-S136, COLD FORMED STEEL STRUCTURAL MEMBERS.
2. SHEET STEEL USED FOR UNDER-BLEACHER CEILING ROOF DECK SHALL CONFORM TO CSSBI 10M STANDARD FOR STEEL ROOF DECK MINIMUM GRADE A.
3. THE MINIMUM THICKNESS OF SHEET STEEL SHALL BE 22 GAUGE U/N OTHERWISE ON PLAN.
4. MINIMUM ZINC COATING DESIGNATION SHALL BE Z275 FOR UNDER-BLEACHER CEILING DECK.
5. AS A MINIMUM, FASTEN SIDE JOINTS OF DECK UNITS BETWEEN SUPPORTS WITH HILTI #10 HWH SCREWS AT 600 mm (2'-0") INTERVALS.
6. AS A MINIMUM, FASTEN 38mm (1.5") STEEL DECK TO SUPPORTS AND PERIMETER ELEMENTS WITH MECHANICAL DECK FASTENERS IN A 36/7 PATTERN.
7. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS, HOPPERS AND THE LIKE. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 150mm. REINFORCE OPENINGS NOT MORE THAN 300mm: L64x64x4.8; REINFORCE OPENINGS NOT MORE THAN 450mm: C100x8; REINFORCE OPENINGS MORE THAN 450mm: REFER TO DRAWINGS.

TIMBER

1. ALL TIMBER MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH CAN/CSA – 086.1 ENGINEERING DESIGN IN WOODS.
2. ALL DECK & STAIR TIMBERS SHALL BE SPF NO.1/NO.2 GRADE OR BETTER AND SHALL BE PRESSURE TREATED TO CONFORM WITH THE REQUIREMENTS OF CAN/CSA 080. WOOD PRESERVATION.
3. TIMBER SHALL BE SPLICED IN ACCORDANCE WITH CAN/CSA-086.1; GRADED AND GRADE MARKED TO NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER.
4. ALL FIELD DRILLED HOLES AND CUTS IN PRESSURE TREATED TIMBER SHALL BE TREATED WITH THREE COATES OF CHROMATE COPPER ARSENATE SUPPLIED AND APPLIED BY THE CONTRACTOR.
5. CARE MUST BE TAKEN IN HANDLING TREATED TIMBER TO AVOID DEFACEMENT OF SURFACE.

EXCAVATION AND BACKFILLING

1. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL EXTERIOR FOOTINGS SHALL BE EXTENDED MINIMUM 1.2m BELOW FINISHED GRADE.
2. THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. MAXIMUM STEP APPROXIMATELY 0.6m.
3. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETED. PLACE BACKFILL SIMULTANEOULSY ON BOTH SIDES OF OTHER WALLS BELOW GRADE. BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

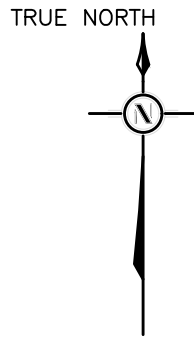
CONCRETE	25 MPa		30 MPa		35 MPa		40 MPa		45 MPa		50 MPa		CONCRETE
SPLICE	CLASS A OR Ld	CLASS B	CLASS A OR Ld	CLASS B	CLASS A OR Ld	CLASS B	CLASS A OR Ld	CLASS B	CLASS A OR Ld	CLASS B	CLASS A OR Ld	CLASS B	SPLICE
TABLE 1: UNCOATED, OTHER THAN TOP BARS													
BAR													BAR
10	300 (12)	380 (15)	300 (12)	350 (14)	300 (12)	320 (13)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	10
15	440 (18)	570 (23)	400 (16)	520 (21)	370 (15)	480 (19)	350 (14)	450 (18)	330 (13)	420 (17)	310 (12)	400 (16)	15
20	580 (23)	750 (30)	530 (21)	690 (28)	490 (20)	640 (26)	450 (19)	600 (24)	430 (17)	560 (23)	410 (16)	530 (21)	20
25	900 (36)	1170 (47)	830 (33)	1070 (43)	780 (30)	960 (38)	720 (29)	930 (37)	670 (27)	880 (35)	640 (26)	830 (33)	25
30	1080 (43)	1410 (56)	990 (39)	1290 (51)	920 (37)	1190 (47)	850 (34)	1110 (44)	810 (32)	1050 (42)	770 (31)	1000 (40)	30
35	1260 (50)	1540 (65)	1150 (46)	1500 (60)	1070 (43)	1380 (55)	1000 (40)	1300 (52)	940 (38)	1220 (49)	890 (36)	1160 (46)	35
TABLE 1: UNCOATED, TOP BARS													
10	380 (15)	490 (20)	350 (14)	450 (18)	320 (13)	420 (17)	300 (12)	390 (16)	300 (12)	370 (15)	300 (12)	350 (14)	10
15	570 (23)	730 (29)	520 (21)	670 (27)	480 (19)	620 (25)	450 (18)	580 (23)	420 (17)	550 (22)	400 (16)	520 (21)	15
20	750 (30)	980 (39)	690 (28)	890 (36)	640 (26)	830 (33)	600 (24)	770 (31)	560 (23)	730 (29)	530 (21)	690 (28)	20
25	1170 (47)	1530 (61)	1070 (43)	1380 (55)	990 (39)	1290 (51)	930 (37)	1210 (48)	980 (35)	1140 (45)	830 (33)	1080 (43)	25
30	1410 (56)	1830 (73)	1290 (51)	1670 (66)	1190 (47)	1550 (62)	1110 (44)	1450 (58)	1050 (42)	1360 (54)	1000 (40)	1290 (51)	30
35	1640 (65)	2130 (84)	1500 (60)	1950 (77)	1390 (55)	1800 (71)	1300 (52)	1690 (67)	1220 (49)	1590 (63)	1160 (46)	1510 (60)	35
TABLE 1: EPOXY-COATED BARS, OTHER THAN TOP BARS													
10	440 (18)	570 (23)	400 (16)	520 (21)	370 (15)	480 (19)	350 (14)	450 (18)	330 (13)	420 (17)	310 (13)	400 (18)	10
15	650 (26)	850 (34)	600 (24)	770 (31)	550 (22)	720 (29)	520 (21)	670 (27)	490 (20)	630 (25)	460 (19)	600 (24)	15
20	870 (35)	1130 (45)	790 (32)	1030 (41)	730 (29)	950 (38)	690 (28)	890 (36)	650 (26)	840 (34)	610 (25)	800 (32)	20
25	1350 (54)	1760 (70)	1240 (49)	1610 (64)	1140 (45)	1480 (59)	1070 (43)	1390 (55)	1010 (40)	1310 (52)	960 (38)	1240 (49)	25
30	1620 (64)	2110 (84)	1480 (59)	1930 (76)	1370 (54)	1780 (71)	1230 (51)	1670 (66)	1210 (48)	1570 (62)	1150 (46)	1490 (59)	30
35	1890 (75)	2460 (97)	1730 (69)	2250 (89)	1600 (63)	2060 (82)	1500 (60)	1950 (77)	1410 (56)	1840 (73)	1340 (53)	1740 (69)	35
TABLE 1: EPOXY-COATED BARS, TOP BARS													
10	490 (20)	640 (26)	450 (18)	590 (24)	420 (17)	540 (22)	390 (16)	510 (21)	370 (15)	480 (19)	350 (14)	450 (18)	10
15	740 (30)	960 (38)	670 (27)	880 (35)	620 (25)	810 (32)	590 (23)	760 (30)	550 (22)	720 (29)	520 (21)	680 (27)	15
20	980 (39)	1280 (51)	900 (36)	1170 (47)	830 (33)	1060 (43)	780 (31)	1010 (40)	730 (29)	950 (38)	700 (28)	900 (36)	20
25	1530 (61)	1990 (79)	1400 (56)	1820 (72)	1300 (52)	1680 (67)	1210 (48)	1580 (63)	1140 (45)	1490 (59)	1090 (43)	1410 (56)	25
30	1840 (73)	2390 (95)	1680 (67)	2180 (86)	1550 (62)	2020 (80)	1450 (58)	1890 (75)	1370 (54)	1780 (71)	1300 (52)	1690 (67)	30
35	2150 (85)	2790 (110)	1980 (78)	2550 (101)	1810 (72)	2360 (93)	1700 (67)	2210 (88)	1600 (63)	2080 (82)	1520 (60)	1970 (78)	35

1. USE FOLLOWING TENSION LAP SPLICE LENGTHS UNLESS NOTED OTHERWISE ON DRAWINGS.
2. TENSION DEVELOPMENT LENGTHS, Ld DENOTED AS TENSION LAP SPLICE CLASS A.
3. FOR COLUMNS, USE COLUMN TENSION SPLICE TYPICAL DETAIL.
4. TOP BARS ARE BARS WITH MORE THAN 300 (12") OF CONCRETE CAST BELOW SPLICE.
5. CLEAR COVER NOT LESS THAN db. CLEAR SPACING NOT LESS THAN 2 db.
6. FOR STRUCTURAL LOW-DENSITY CONCRETE, INCREASE SPLICE LENGTHS BY 30%.
7. FOR STRUCTURAL SEMI-LOW-DENSITY CONCRETE, INCREASE SPLICE LENGTH BY 20%.
8. DIMENSIONS ARE mm EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.

1  
S-1.2

TENSION DEVELOPMENT LENGTH AND TENSION LAP SPLICES (Fy=400mpa)

Scale: NTS




2	10.07.2022	ISSUED FOR FINAL REVIEW
1	07.11.2022	ISSUED FOR CLIENT 75% REVIEW

No.	Date	Description
REVISIONS		PLOT SCALE: 1=1

CONTRACTOR WILL CHECK AND VERIFY ALL DIMENSIONS AND CHECK ALL JOB CONDITIONS ON THE JOB BEFORE PROCEEDING WITH THE WORK.

STAMP	STAMP



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PROJECT  
**DICKSON STADIUM RENOVATION**

LOCATION  
30 PARK HILL ROAD WEST,  
CAMBRIDGE, ON N1S 1C9

STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS

SCALE AS SHOWN FULL SIZE ONLY DRAWN BY B.L/J.M.	JOB No. 6475
CHECKED BY J.H.	DRAWING NO.
DATE JUNE, 2022	S-1.2
CAD FILE 6475 Dickson.dwg	

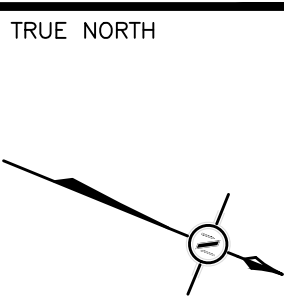




1. CONTRACTOR SHALL PROTECT ALL EXISTING MECHANICAL AND ELECTRICAL INSTALLATIONS, INCLUDING BUT NOT NECESSARILY LIMITED TO DUCTWORKS, CONDUITS, CABLES, WALL/CEILING MOUNTED LIGHTING FIXTURES, DEVICES, SWITCHES AND/OR CONTROLS ETC. ALLOW TO RELOCATE, REINSTATE AND/OR RE-ROUTE EXISTING CONDUITS/CABLES AND/OR OTHER MECHANICAL/ELECTRICAL INSTALLATIONS AND SUPPORTS AS REQUIRED TO ACCOMMODATE THE RENOVATION WORK. ALLOW VERIFICATION OF THE EXISTING MECHANICAL AND ELECTRICAL SYSTEM UPON COMPLETION OF THE CONSTRUCTION WORK.

- 1 EX. PARTITION WALLS TO BE REMOVED. PATCH AND MAKE GOOD FLOOR TO MATCH ADJACENT FLOOR FINISHES. SEE FIG. 1 FOR EXISTING CONDITION. ALLOW FOR 40 m2 PARTITION WALL REMOVAL ON BASE BID.
- 2 REPAIR SPALLED CONCRETE PILASTER. SEE FIG. 2 FOR EXISTING CONDITION. REFER TO 1/S7, 2/S7, 3a/S7 & 3b/S7 FOR REPAIR DETAILS. ALLOW FOR 1.5 m2 REPAIR ON BASE BID. NOTIFY STRUCTURAL CONSULTANT FOR REVIEW PRIOR TO APPLYING REPAIR MATERIAL.
- 3 REPAIR CORRODED STEEL COLUMN. SEE FIG. 3 FOR EXISTING CONDITION. REFER TO 1/S8 FOR REPAIR DETAILS. ALLOW FOR TWO (2) LOCATIONS FOR LOWER LEVEL GROUND FLOOR COLUMN REPAIR ON BASE BID.
- 4 REMOVE EXISTING DELAMINATED/SPALLED/TILTED LANDSCAPING RETAINING WALL WITH NEW CONCRETE RETAINING WALL. SEE FIG. 4 FOR EXISTING CONDITION. REFER TO 1/S7 FOR NEW RETAINING WALL DETAILS. ALLOW FOR 10.7 m LONG RETAINING WALL ON BASE BID.

- 5 REPAIR CRACKED/DELAMINATED/SPALLED CONCRETE FOUNDATION WALL INTERIOR FACE. APPLY HAMMER TAPPING TO VERIFY HOLLOWNESS OF CONCRETE EACH SIDE OF CRACK. SEE FIG. 5, & 6 FOR EXISTING CONDITION. WHERE CONCRETE ON EACH SIDE OF CRACK IS SOUND, REPAIR CRACKS USING SIKAFIX KIT IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR SURFACE PREPARATION, APPLICATION AND CLEAN-UP. REPAIR LOOSE OR DETERIORATED CONCRETE AS PER DETAILS 2/S7, 3a/S7, AND/OR 3b/S7. WHERE REBAR IS EXPOSED AFTER DETERIORATED CONCRETE IS REMOVED, PREPARE REBAR AS PER DETAIL 1/S7. ALLOW CONSULTANT TO REVIEW THE PREPARED SURFACE PRIOR TO APPLYING REPAIR MATERIAL. ALLOW FOR TWENTY (20) SHALLOW REPAIRS (UP TO 0.1 m<sup>2</sup> IN AREA AND 50mm DEEP FOR EACH REPAIR), AND TEN (10) DEEP REPAIRS (UP TO 0.1 m<sup>2</sup> IN AREA AND 100mm DEEP FOR EACH REPAIR), W/ A TOTAL OF 3 m<sup>2</sup> WALL INTERIOR FACE REPAIR ON BASE BID.



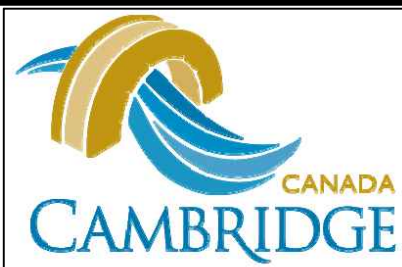
2	10.07.2022	ISSUED FOR FINAL REVIEW	
1	07.11.2022	ISSUED FOR CLIENT 75% REVIEW	
No.	Date	Description	
REVISIONS		PLOT SCALE: 1=1	

CONTRACTOR WILL CHECK AND VERIFY ALL DIMENSIONS AND CHECK ALL JOB CONDITIONS ON THE JOB BEFORE PROCEEDING WITH THE WORK.

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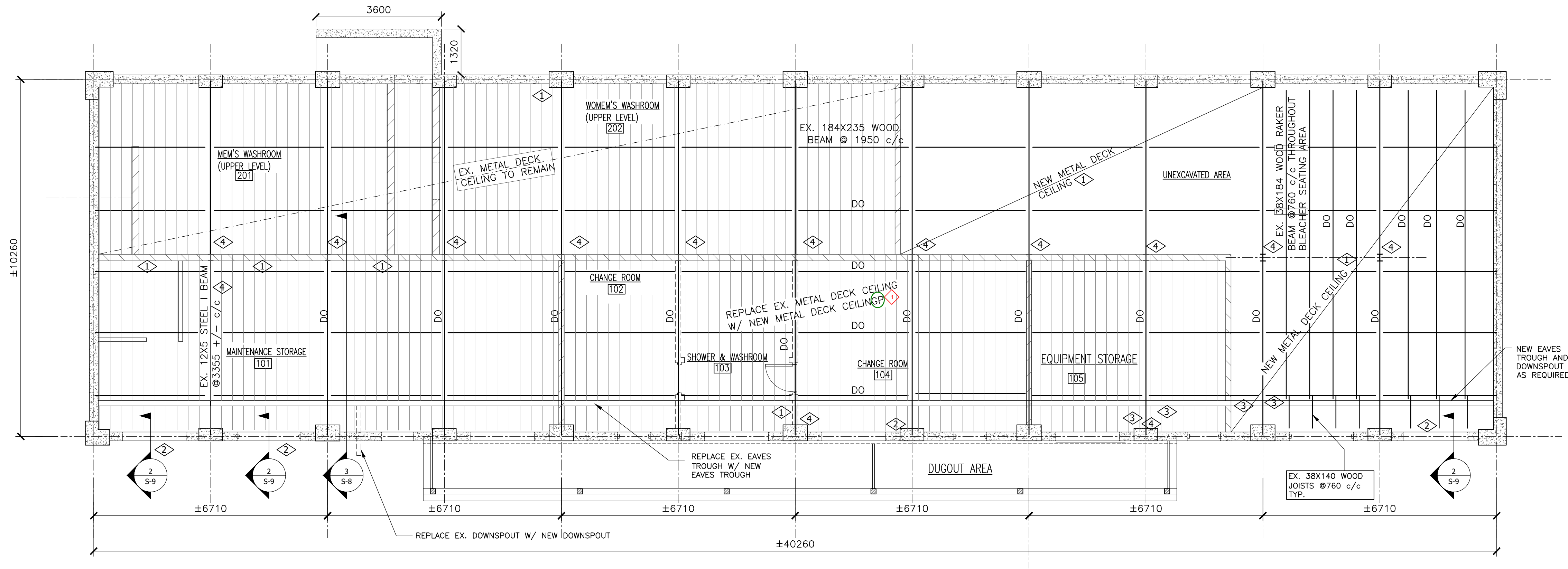
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LOWER AND UPPER GROUND  
FLOOR PLAN, REPAIR LEGEND  
AND EX. PHOTOS

SCALE AS SHOWN FULL SIZE ONLY	JOB No. 6475
DRAWN BY B.L/J.M.	
CHECKED BY J.H.	DRAWING NO.
DATE JUNE, 2022	S-2
CAD FILE 6475 Dickson.dwg	



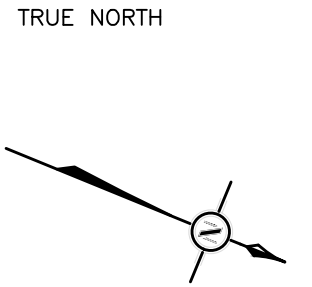


**1 LOWER AND UPPER LEVEL GROUND FLOOR REFLECTED CEILING PLAN**  
Scale: 1:75  
SEE LEGEND NOTES

- NOTES:**
- CONTRACTOR SHALL PROTECT ALL EXISTING MECHANICAL AND ELECTRICAL INSTALLATIONS, INCLUDING BUT NOT NECESSARILY LIMITED TO DUCTWORKS, CONDUITS, CABLES, WALL/CEILING MOUNTED LIGHTING FIXTURES, DEVICES, SWITCHES AND/OR CONTROLS ETC. ALLOW TO RELOCATE, REINSTATE AND/OR RE-ROUTE EXISTING CONDUITS/CABLES AND/OR OTHER MECHANICAL/ELECTRICAL INSTALLATIONS AND SUPPORTS AS REQUIRED TO ACCOMMODATE THE RENOVATION WORK. ALLOW VERIFICATION OF THE EXISTING MECHANICAL AND ELECTRICAL SYSTEM UPON COMPLETION OF THE CONSTRUCTION WORK.

- REPAIR LEGEND:**
- REMOVE EXISTING CORRUGATED METAL DECK AND ALUMINUM EAVES TROUGH AND REPLACE WITH NEW METAL DECK AND ALUMINUM EAVES TROUGH TO MATCH EXISTING. INSTALL NEW METAL DECK CEILING AND EAVES TROUGH AS NOTED ON PLAN. SEE FIG. 1, 2 & 3  
FOR EXISTING CONDITION. REFER TO SECTION 1/S9 FOR DETAILS. ALLOW FOR 190 m2 REMOVAL OF EXIST. METAL DECK AND 340 m2 INSTALLATION OF NEW METAL DECK ON BASE BID.
  - REPAIR DETERIORATED CONCRETE DOOR/WINDOW HEADER. SEE FIG. 4, 5 & 6 FOR EXISTING CONDITION. REFER TO SECTION 2/S9 FOR REPAIR DETAILS. ALLOW FOR REPAIR AT THREE (3) LOCATIONS ON BASE BID.
  - REPAIR DAMAGED/ROTTEN WOOD BEAMS/JOISTS. SEE FIG. 7 & 8 FOR EXISTING CONDITION. REFER TO 3/S9 FOR REPAIR DETAILS. ALLOW FOR REPLACEMENT OF THREE (3) 184X235 WOOD BEAMS AND TEN (10) 38X184 LEVELED SHORT WOOD JOISTS AND SISTERING TEN (10) 38X140 WOOD RAKER BEAMS (REFER TO 3/S9 FOR REPAIR DETAILS) ON BASE BID.
  - REPAIR STEEL WITH SECTION LOSS GREATER THAN 5%. REPAINT ALL STEEL EXPOSED TO VIEW (SEE ITEM 5 FOR DETAILS). SEE FIG. 8, 9, 10, 11 & 12 FOR EXISTING CONDITION. REFER TO SECTIONS 3/S8 AND 4/S8 FOR BEAM REINFORCING DETAIL AND SECTION 1/S8 FOR COLUMN REINFORCING DETAIL. ALLOW FOR FOUR (4) LOCATIONS FOR UNDER-BLEACHER COLUMN REPAIR, AND TWO (2) LOCATIONS FOR STEEL BEAM GIRDER REPAIR ON BASE BID.
  - REMOVE ALL SURFACE DEBRIS, LOOSE PAINT AND CORROSION RESIDUE FOR ALL STEEL BEAM GIRDERS, COLUMNS AND CONNECTIONS UNDER BLEACHER AND EXPOSED TO VIEW. PAINT WITH PPG HPC URETHANE ALKYD SG 4336H FOR SURFACES IN GOOD CONDITION. PRIME BARE AREAS WITH PPG MULTIPRIME 4360 PRIMER AND TOP COAT WITH PPG HPC URETHANE ALKYD SG 4336H. PAINT COLOR TO MATCH EXISTING OR MEET OWNER'S REQUIREMENTS. SUBMIT SAMPLES FOR APPROVAL.

CORRUGATED  
PAINT METAL DECK AND EAVES TROUGH WITH PPG HPC URETHANE ALKYD SG 4336H PRIOR TO INSTALLATION AND TOUCH UP AFTER.



No.	Date	Description
2	10.07.2022	ISSUED FOR FINAL REVIEW
1	07.11.2022	ISSUED FOR CLIENT 75% REVIEW
REVISIONS		PLOT SCALE: 1=1

CONTRACTOR WILL CHECK AND VERIFY ALL DIMENSIONS AND CHECK ALL JOB CONDITIONS ON THE JOB BEFORE PROCEEDING WITH THE WORK.

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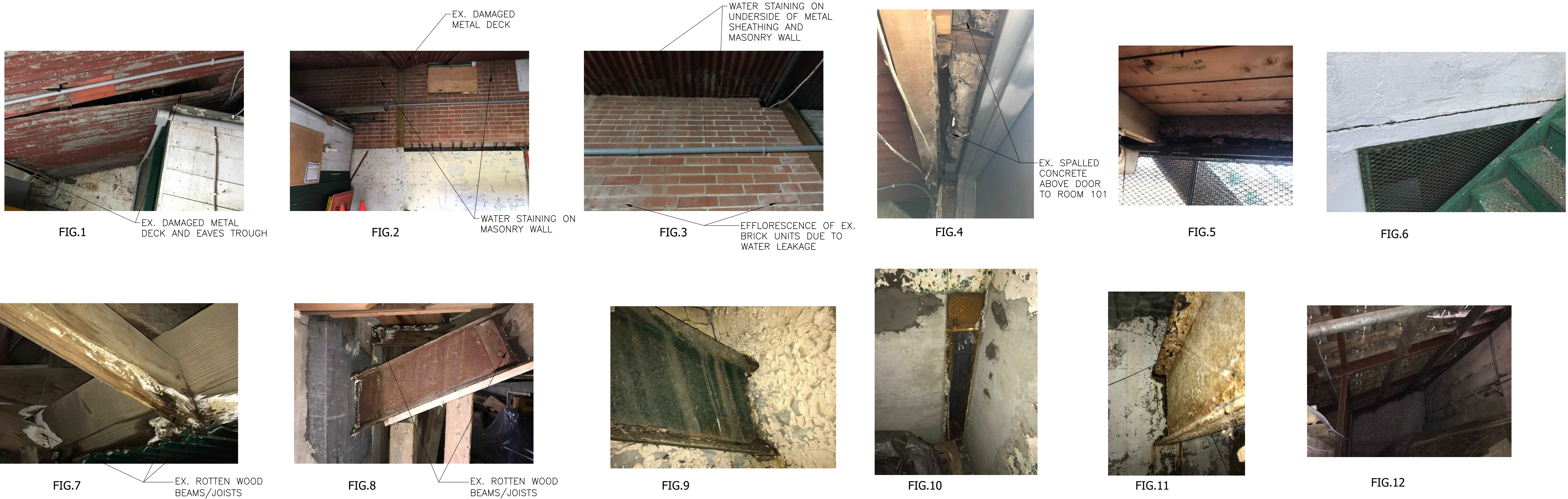


PROJECT  
**DICKSON STADIUM RENOVATION**

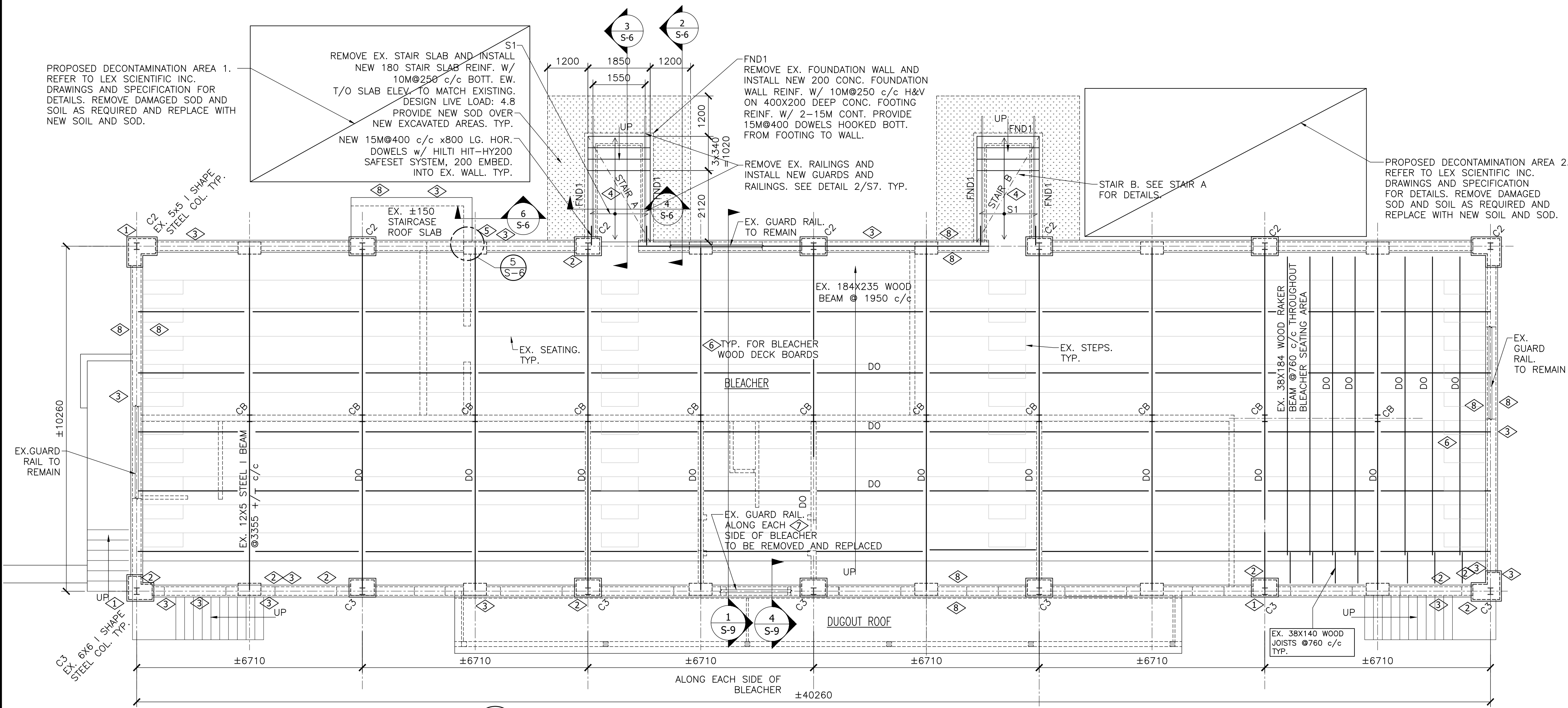
LOCATION  
30 PARK HILL ROAD WEST,  
CAMBRIDGE, ON N1S 1C9

LOWER AND UPPER GROUND  
FLOOR REFLECTED CEILING  
PLAN, REPAIR LEGEND AND EX.  
PHOTOS

SCALE AS SHOWN FULL SIZE ONLY DRAWN BY B.L./J.M.	JOB No. 6475
CHECKED BY J.H.	DRAWING NO. S-3
DATE JUNE, 2022 CAD FILE 6475 Dickson.dwg	



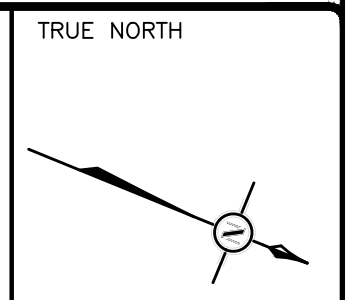




**1 BLEACHER FLOOR PLAN**  
S-4 Scale: 1:75 SEE LEGEND NOTES

## REPAIR LEGEND:

- REPAIR DETERIORATED STEEL COLUMN BASE. SEE FIG. 1 & 2 FOR EXISTING CONDITION. REFER TO 1/S8 AND 2/S8 FOR REPAIR DETAILS. ALLOW FOR THREE (3) LOCATIONS ON BASE BID.
- REPAIR CRACKED PERIMETER CONCRETE WALL CAPS AND COLUMN CAPS. APPLY HAMMER TAPPING TO VERIFY HOLLOWNESS OF CONCRETE EACH SIDE OF CRACK. SEE FIG. 4, 5, 6, 7, 8 & 9 FOR EXISTING CONDITION. WHERE CONCRETE ON EACH SIDE OF CRACK IS SOUND, REPAIR CRACKS USING SIKAFIX KIT IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR SURFACE PREPARATION, APPLICATION AND CLEAN-UP. REPAIR LOOSE OR DETERIORATED CONCRETE AS PER DETAILS 2/S7, 3a/S7, 3b/S7, 4a/S7, AND/OR 4b/S7. WHERE REBAR IS EXPOSED AFTER DETERIORATED CONCRETE IS REMOVED, PREPARE REBAR AS PER DETAIL 1/S7. ALLOW CONSULTANT TO REVIEW THE PREPARED SURFACE PRIOR TO APPLYING REPAIR MATERIAL. ALLOW FOR TWELVE (12) SHALLOW REPAIRS (UP TO 0.1 m<sup>2</sup> IN AREA AND 50mm DEEP FOR EACH REPAIR) AND FOUR (4) DEEP REPAIRS (UP TO 0.1 m<sup>2</sup> IN AREA AND 100mm DEEP FOR EACH REPAIR) WITH A TOTAL OF 1.6 m<sup>2</sup> REPAIR ON BASE BID.
- REPAIR CRACKED/DELAMINATED/SPALLED PERIMETER WALL AND/OR PARGING. APPLY HAMMER TAPPING TO VERIFY HOLLOWNESS OF CONCRETE EACH SIDE OF CRACK. SEE FIG. 5, 7, 11, 12, 13 & 14 FOR EXISTING CONDITION. WHERE CONCRETE ON EACH SIDE OF CRACK IS SOUND, REPAIR CRACKS USING SIKAFIX KIT IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR SURFACE PREPARATION, APPLICATION AND CLEAN-UP. REPAIR LOOSE OR DETERIORATED CONCRETE AS PER DETAILS 2/S7, 3a/S7, AND/OR 3b/S7. WHERE REBAR IS EXPOSED AFTER DETERIORATED CONCRETE IS REMOVED, PREPARE REBAR AS PER DETAIL 1/S7. ALLOW CONSULTANT TO REVIEW THE PREPARED SURFACE PRIOR TO APPLYING REPAIR MATERIAL. ALLOW FOR SIXTY (60) SHALLOW REPAIRS (UP TO 0.1 m<sup>2</sup> IN AREA AND 50mm DEEP FOR EACH REPAIR) AND TWENTY (20) DEEP REPAIRS (UP TO 0.1 m<sup>2</sup> IN AREA AND 100mm DEEP FOR EACH REPAIR) WITH A TOTAL OF 8 m<sup>2</sup> REPAIR ON BASE BID.
- REMOVE DETERIORATED EXTERIOR CONCRETE STAIRS, WALLS, FOOTINGS AND RAILINGS AND REPLACE AND INSTALL NEW CONCRETE STAIRS, WALLS, FOOTINGS AND RAILINGS. PRIME ALL NEW STEEL WITH PPG MULTIPRIME 4360 PRIMER AND TOP COAT WITH PPG HPC URETHANE ALKYD SG 4336H. PAINT COLOR TO MATCH EXISTING OR MEET OWNER'S REQUIREMENTS. SUBMIT SEE FIG. 10 FOR EXISTING CONDITION. REFER TO 2/S6, 3/S6 AND 4/S6 FOR NEW STAIR DETAILS. **SAMPLES FOR APPROVAL**
- REPAIR GAPS BETWEEN INTERSECTING WALLS AND 'BETWEEN WALL' AND SLAB. SEE FIG. 11 FOR EXISTING CONDITION. REFER TO 5/S6 AND 6/S6 FOR REPAIR DETAILS.
- REMOVE DETERIORATED BLEACHER WOOD DECK BOARDS AND REPLACE WITH NEW PRESSURE TREATED WOOD DECK BOARDS TO MATCH EXISTING. SEE FIG. 15 FOR EXISTING CONDITION. ALLOW FOR 2 m<sup>2</sup> REPLACEMENT ON BASE BID.
- REMOVE EXIST. GUARD RAIL ON THE WEST AND EAST SIDE OF THE GRANDSTAND AND INSTALL NEW STEEL GUARD RAIL. SEE FIG. 5 FOR EXISTING CONDITION. REFER TO 4/S9 FOR NEW GUARDRAIL DETAILS.
- REMOVE ALL SURFACE DEBRIS, LOOSE PAINT AND CORROSION RESIDUE FOR ALL RAILINGS AND CONNECTIONS EXPOSED TO VIEW. REPAIR WITH PPG HPC URETHANE ALKYD SG 4336H FOR SURFACES IN GOOD CONDITION. PRIME BARE AREAS WITH PPG MULTIPRIME 4360 PRIMER AND TOP COAT WITH PPG HPC URETHANE ALKYD SG 4336H. PAINT COLOR TO MATCH EXISTING OR MEET OWNER'S REQUIREMENTS. SUBMIT SAMPLES FOR APPROVAL.
- REMOVE ALL SURFACE DUST OR DIRT AND LOOSE PAINT FOR ALL EXTERIOR AND INTERIOR FACE OF THE EXPOSED PERIMETER WALLS AND INSTALL TWO COATS (10 MIL DRY FILM THICKNESS MIN.) OF NEW DOWSILL ALLGUARD SILICONE ELASTOMERIC COATING OR APPROVED EQUIVALENT. PAINT COLOR TO MATCH EXISTING OR MEET OWNER'S REQUIREMENTS. SUBMIT SAMPLES FOR APPROVAL. SEE FIG. 16, 17 & 18 FOR EXISTING CONDITION.



No.	Date	Description
2	10.07.2022	ISSUED FOR FINAL REVIEW
1	07.11.2022	ISSUED FOR CLIENT 75% REVIEW
REVISIONS		
PLOT SCALE: 1=1		

CONTRACTOR WILL CHECK AND VERIFY ALL DIMENSIONS AND CHECK ALL JOB CONDITIONS ON THE JOB BEFORE PROCEEDING WITH THE WORK.

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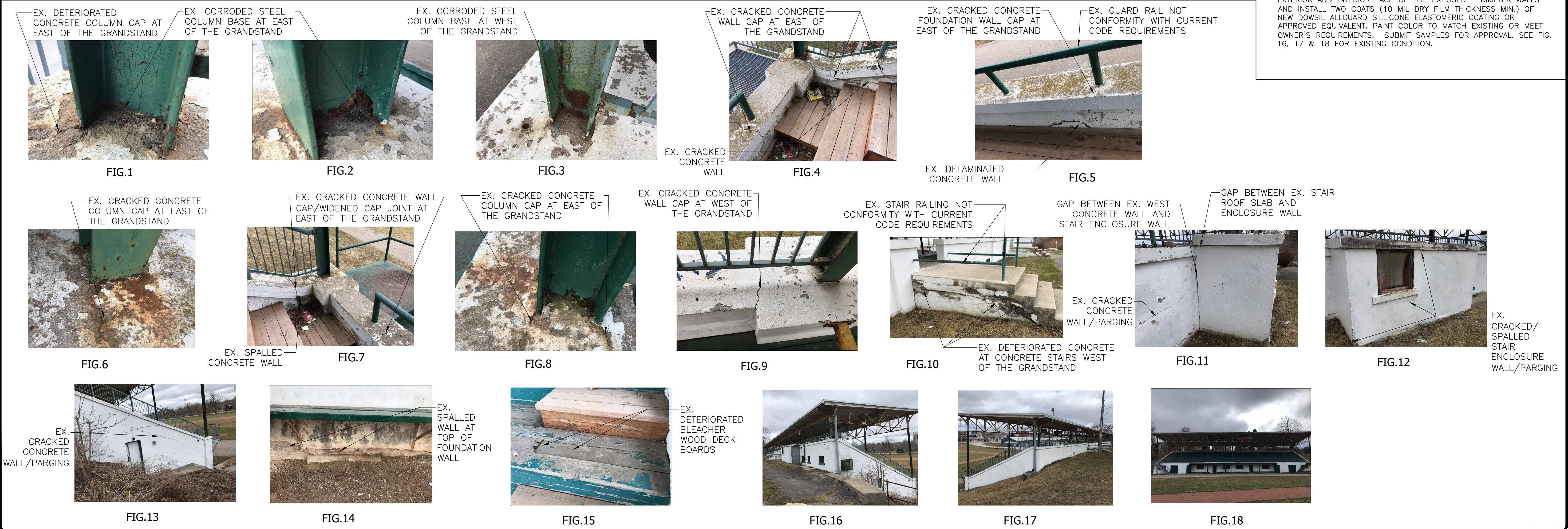


PROJECT  
**DICKSON STADIUM RENOVATION**

LOCATION  
30 PARK HILL ROAD WEST,  
CAMBRIDGE, ON N1S 1C9

**BLEACHER FLOOR PLAN, REPAIR LEGEND AND EX. PHOTOS**

SCALE AS SHOWN FULL SIZE ONLY	JOB No. 6475
DRAWN BY B.L./J.M.	DRAWING NO. S-4
CHECKED BY J.H.	
DATE JUNE, 2022	
CAD FILE 6475 Dickson.dwg	





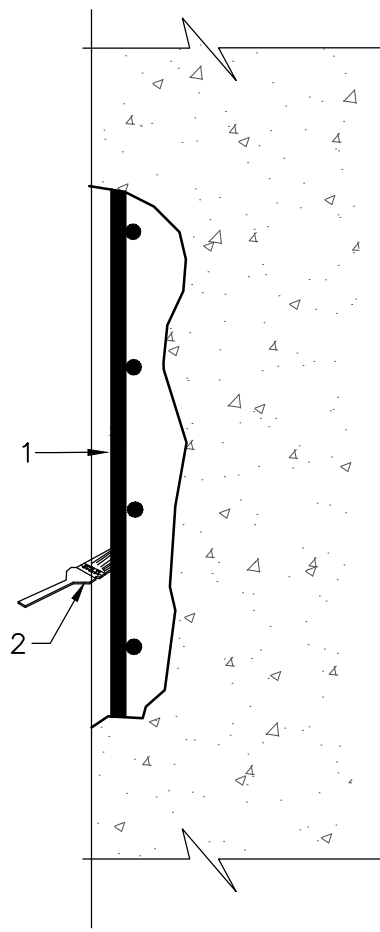




SCALE	JOB No.
AS SHOWN FULL SIZE ONLY	6475
DRAWN BY B.L./J.M.	
CHECKED BY J.H.	DRAWING NO.
DATE JUNE, 2022	S-6
CAD FILE 6475 Dickson.dwg	



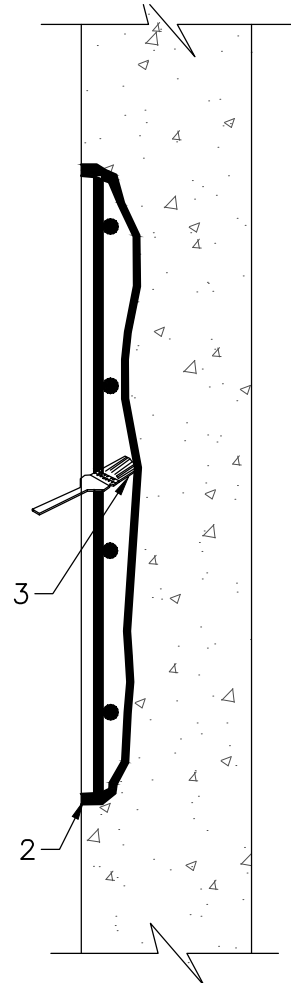
- CLEAN EXPOSED REINFORCING STEEL TO A WHITE FINISH UTILIZING INDUSTRY STANDARD.
- APPLY MAPEFER 1K BY BRUSH OR SPRAY WITHIN 1 HOUR AFTER MIXING AT 73F (23C).  
APPLY MAPEFER 1K IN TWO COATS.  
a) FIRST COAT: APPLY AT 1/32" (1mm);  
b) SECOND COAT: APPLY AT 1/32" (1mm) BETWEEN 2 & 24 HOURS AFTER THE FIRST COAT.
- ALLOW MAPEFER 1K TO COMPLETELY CURE DRY (USUALLY WITHIN 6 HOURS AT 73°F (23°C) BEFORE APPLICATION OF REPAIR MORTAR.



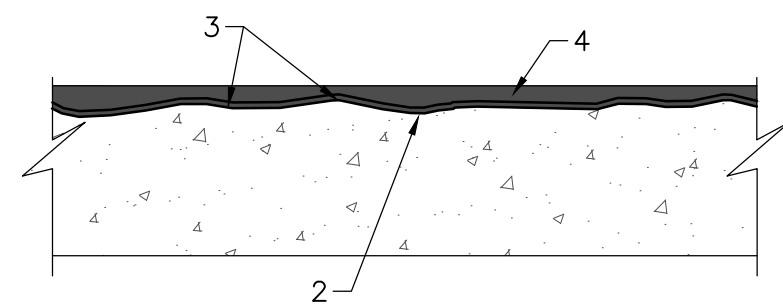
**1** TYP. REBAR PREPARE DETAIL  
S-7 Scale: N.T.S

- PREPARE THE REPAIR AREA BY FOLLOWING INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) RECOMMENDATIONS FOR CONCRETE SURFACE PROFILE AND REPAIR GEOMETRY.
- PRIOR TO APPLICATION OF PLANIBOND 3C, ENSURE THAT THE SUBSTRATE IS IN A SATURATED SURFACE-DRY (SSD) CONDITION WITHOUT FREE-STANDING WATER.
- APPLY PLANIBOND 3C AT 20 MIL (0.5mm) BY BROOM, BRUSH, OR SPRAY.
- PLACE APPROPRIATE REPAIR MATERIAL WHILE PLANIBOND 3C IS WET OR WITHIN ALLOWED OPEN TIMES.

TEMPERATURE	OPEN TIME
45°F (7°C)	24 HOURS
50°F (10°C)	16 HOURS
68°F (12°C)	12 HOURS
95°F (35°C)	6 HOURS



**2** TYP. REBAR PREPARE DETAIL  
S-7 Scale: N.T.S

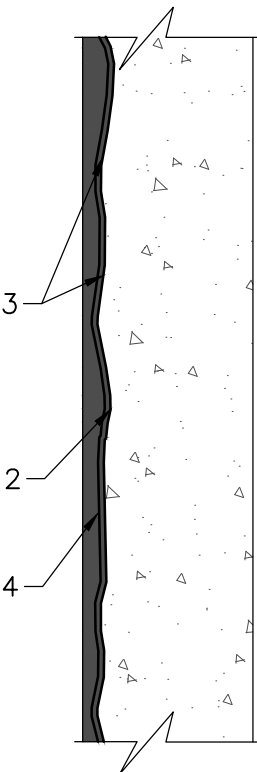


- PREPARE THE REPAIR AREA BY FOLLOWING INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) RECOMMENDATIONS FOR CONCRETE SURFACE PROFILE AND REPAIR GEOMETRY.
- BEFORE APPLICATION OF MAPECEM 202, ENSURE THAT THE SUBSTRATE IS IN A SATURATED SURFACE-DRY (SSD) CONDITION WITHOUT FREE-STANDING WATER.
- SCRUB A THIN LAYER OF MAPECEM 202 ONTO THE SURFACE OF THE REPAIR AREA, ENSURING THAT ALL VOIDS AND PORES ARE FILLED WITH THE SCRUB COAT.
- WHILE THE SCRUB COAT IS STILL WET, APPLY MAPECEM 202 TO THE DESIRED THICKNESS BY SCREED OR TROWEL.
- FINISH MAPECEM 202 TO THE DESIRED FINISH BY BROOMING OR STEEL TROWEL.
- CURE THE PLACED MAPECEM 202 WITH A WATER-BASED CURING COMPOUND CONFORMING TO ASTM C309, SUCH AS MAPECURE™ DR. DO NOT WET-CURE.

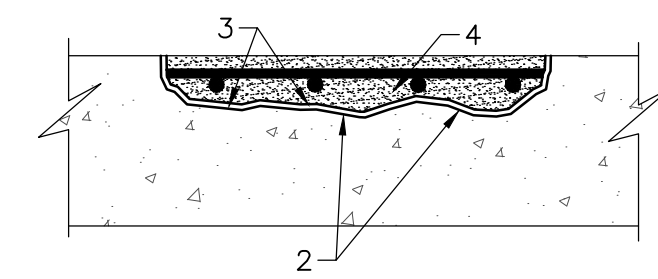
NOTE:  
A.) IN SOME CASES WHERE THE SIZE OF THE REPAIR AREA WILL NOT ALLOW FOR THE USE OF A SCRUB COAT, THE USE OF PLANIBOND® 3C MAY BE A SUITABLE BONDING AGENT.  
B.) ALLOW REPAIR DEPTH 50mm (2").

- PREPARE THE REPAIR AREA BY FOLLOWING INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) RECOMMENDATIONS FOR CONCRETE SURFACE PROFILE AND REPAIR GEOMETRY.
- BEFORE APPLICATION OF PLANITOP XS, ENSURE THAT THE SUBSTRATE IS IN A SATURATED SURFACE-DRY (SSD) CONDITION WITHOUT FREE-STANDING WATER.
- SCRUB A THIN LAYER OF PLANITOP XS ONTO THE SURFACE OF THE REPAIR AREA, ENSURING THAT ALL VOIDS AND PORES ARE FILLED WITH THE SCRUB COAT.
- WHILE THE SCRUB COAT IS STILL WET, APPLY PLANITOP XS TO THE DESIRED THICKNESS BY HAND OR TROWEL.
- FINISH PLANITOP XS TO THE DESIRED FINISH TO MATCH THE SURROUNDING CONCRETE.
- CURE THE PLACED PLANITOP XS WITH A WATER-BASED CURING COMPOUND CONFORMING TO ASTM C309, SUCH AS MAPECURE™ DR. DO NOT WET-CURE.

NOTE:  
a.) ALLOW DEPTH OF REPAIR: 50mm (2") MAXIMUM.



**3a** TYP. WALL SURFACE REPAIR DETAIL (I)  
S-7 Scale: N.T.S

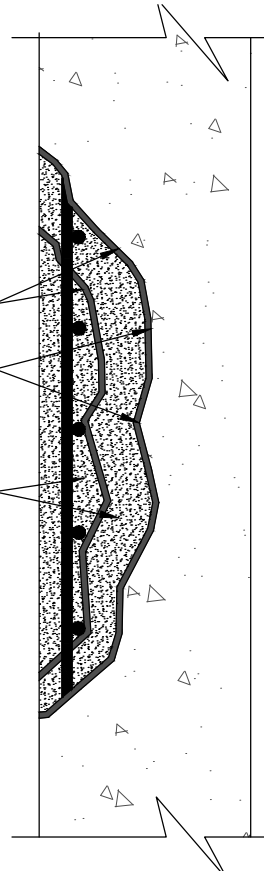


- PREPARE THE REPAIR AREA BY FOLLOWING INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) RECOMMENDATIONS FOR CONCRETE SURFACE PROFILE AND REPAIR GEOMETRY.
- BEFORE APPLICATION OF MAPECEM 202, ENSURE THAT THE SUBSTRATE IS IN A SATURATED SURFACE-DRY (SSD) CONDITION WITHOUT FREE-STANDING WATER.
- SCRUB A THIN LAYER OF MAPECEM 202 ONTO THE SURFACE OF THE REPAIR AREA, ENSURING THAT ALL VOIDS AND PORES ARE FILLED WITH THE SCRUB COAT.
- WHILE THE SCRUB COAT IS STILL WET, APPLY MAPECEM 202 TO THE DESIRED THICKNESS BY SCREED OR TROWEL.
- FINISH MAPECEM 202 TO THE DESIRED FINISH BY BROOMING OR STEEL TROWEL.
- CURE THE PLACED MAPECEM 202 WITH A WATER-BASED CURING COMPOUND CONFORMING TO ASTM C309, SUCH AS MAPECURE™ DR. DO NOT WET-CURE.

NOTE:  
A.) IN SOME CASES WHERE THE SIZE OF THE REPAIR AREA WILL NOT ALLOW FOR THE USE OF A SCRUB COAT, THE USE OF PLANIBOND® 3C MAY BE A SUITABLE BONDING AGENT.  
B.) FOR APPLICATION THICKNESSES GREATER THAN 2" (50mm) IN DEPTH, EXTEND MAPECEM 202 UP TO 20% BY WEIGHT WITH 3/8" (10mm) GRADED PEA GRAVEL.  
C.) ALLOW REPAIR DEPTH 50mm TO 100mm (2" TO 4").

- PREPARE THE REPAIR AREA BY FOLLOWING INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) RECOMMENDATIONS FOR CONCRETE SURFACE PROFILE AND REPAIR GEOMETRY.
- BEFORE APPLICATION OF PLANITOP XS, ENSURE THAT THE SUBSTRATE IS IN A SATURATED SURFACE-DRY (SSD) CONDITION WITHOUT FREE-STANDING WATER.
- SCRUB A THIN LAYER OF PLANITOP XS ONTO THE SURFACE OF THE REPAIR AREA, ENSURING THAT ALL VOIDS AND PORES ARE FILLED WITH THE SCRUB COAT.
- WHILE THE SCRUB COAT IS STILL WET, APPLY PLANITOP XS TO THE DESIRED THICKNESS BY HAND OR TROWEL.
- FINISH PLANITOP XS TO THE DESIRED FINISH TO MATCH THE SURROUNDING CONCRETE.
- CURE THE PLACED PLANITOP XS WITH A WATER-BASED CURING COMPOUND CONFORMING TO ASTM C309, SUCH AS MAPECURE™ DR. DO NOT WET-CURE.

NOTE:  
a.) ALLOW DEPTH OF REPAIR: 50mm TO 100mm (2" TO 4")



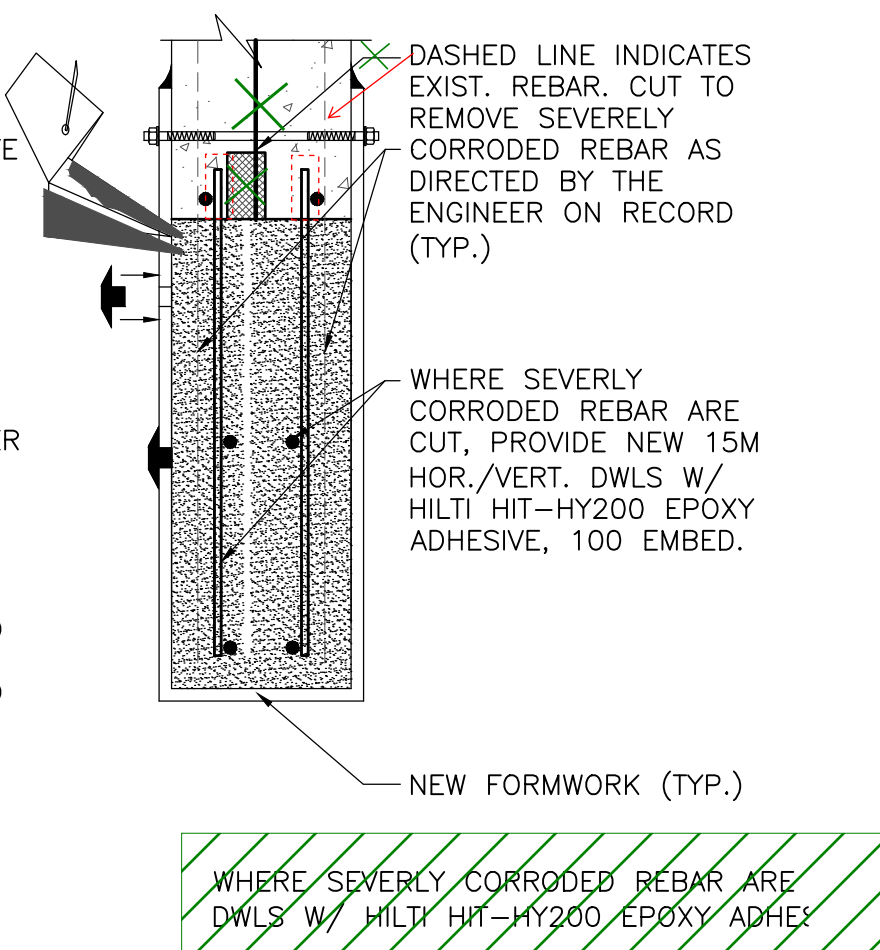
**3b** TYP. WALL SURFACE REPAIR DETAIL (II)  
S-7 Scale: N.T.S

**4a** TYP. CONC. SHALLOW SURFACE REPAIR DETAIL (I)  
S-7 Scale: N.T.S

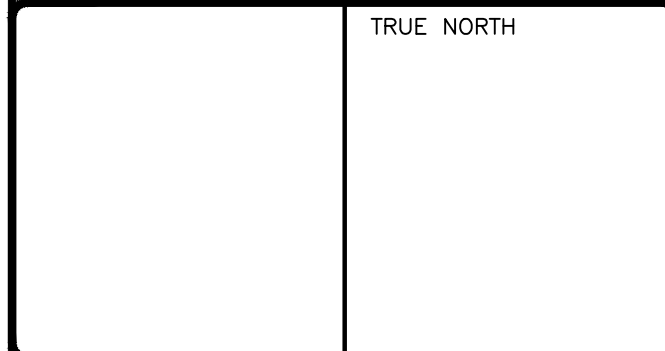
**4b** TYP. CONC. SHALLOW SURFACE REPAIR DETAIL (II)  
S-7 Scale: N.T.S

- PREPARE THE REPAIR AREA BY FOLLOWING INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) RECOMMENDATIONS FOR CONCRETE SURFACED PROFILE AND REPAIR GEOMETRY.
- BEFORE APPLICATION OF PLANIBOND® 3C, ENSURE THAT THE SUBSTRATE IS IN A SATURATED SURFACE-DRY (SSD) CONDITION WITHOUT ANY FREE-STANDING WATER.
- APPLY PLANIBOND 3C TO THE PROPERLY PREPARED SUBSTRATE AND EXPOSED REINFORCING STEEL AS A BONDING AGENT/CORROSION INHIBITOR.
- USE AN APPROVED REACTIVE FORM RELEASE AGENT ON THE INSIDE OF THE FORM WORK.
- ANCHOR THE FORM WORK AROUND THE REPAIR AREA.
- USING MAPEFLEX™ P1, RUN A BEAD OF CAULK AROUND THE PERIMETER EDGE IN CONTACT WITH THE CONCRETE TO SEAL THE FORM WORK.
- POUR PROPERLY MIXED PLANITOP 11 SCC INTO THE PREPARED FORM WORK FROM THE TOP, USING A "HEAD BOX." BECAUSE PLANITOP 11 SCC IS A SELF-CONSOLIDATING CONCRETE MIXTURE, LITTLE TO NO VIBRATION IS REQUIRED DURING PLACEMENT.
- CAP THE VENT HOLES WHEN PLANITOP 11 SCC SHOWS UNINTERRUPTED FLOW THROUGH THEM.
- ALLOW PLANITOP 11 SCC TO PROPERLY CURE AND COAT THE EXPOSED SURFACE WITH A WATER-BASED, ASTM C309 CURING COMPOUND, SUCH AS MAPECURE™ DR. REMOVE ALL FORM WORK AT THE DISCRETION OF THE ENGINEER OF RECORD.
- DRY-PACK ANCHOR BOLT HOLES WITH PLANITOP X OR PLANITOP XS.

NOTE:  
a.) REFER TO DETAILS 1/A11 & 2/A11 FOR REBAR & CONCRETE SUBSTRATE PREPARATION REQUIREMENT.



**5** CONC. REPAIR DETAIL AROUND WINDOWS/DOORS  
S-7 Scale: N.T.S

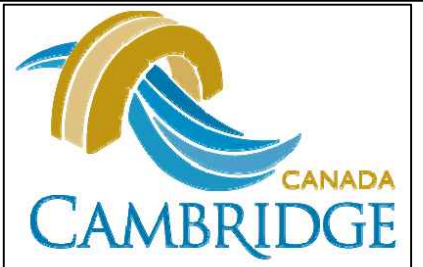


No.	Date	Description
2	10.07.2022	ISSUED FOR FINAL REVIEW
1	07.11.2022	ISSUED FOR CLIENT 75% REVIEW
REVISIONS		PLOT SCALE: 1=1

CONTRACTOR WILL CHECK AND VERIFY ALL DIMENSIONS AND CHECK ALL JOB CONDITIONS ON THE JOB BEFORE PROCEEDING WITH THE WORK.

STAMP	STAMP

**Moon-Matz Ltd.**  
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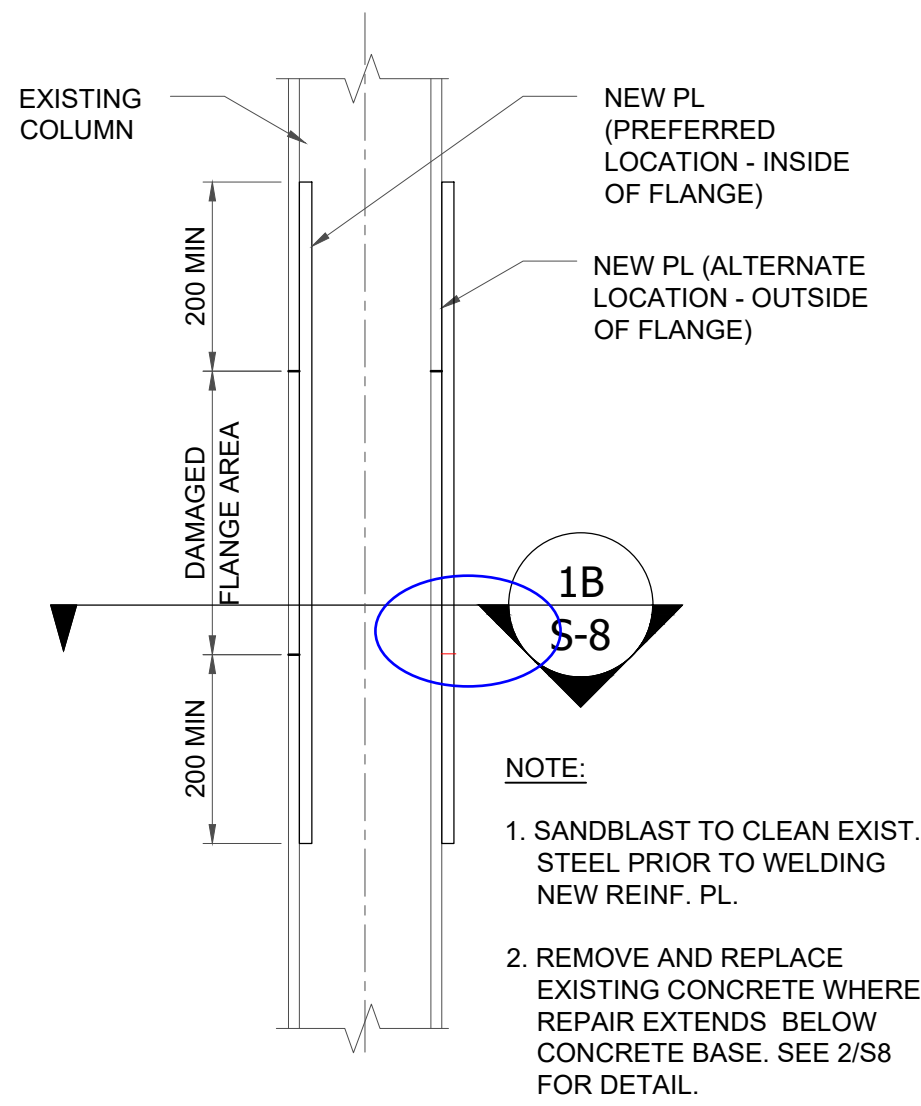
PROJECT  
**DICKSON STADIUM RENOVATION**

LOCATION  
30 PARK HILL ROAD WEST,  
CAMBRIDGE, ON N1S 1C9

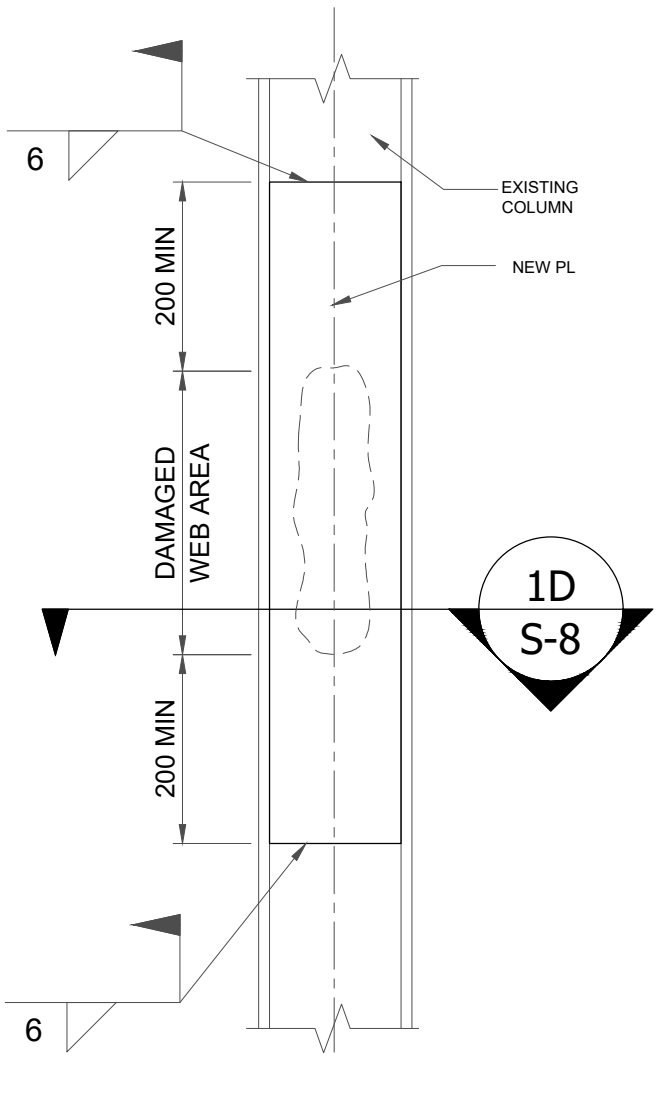
~~SECTION DETAILS AND~~ TYPICAL  
CONC. REPAIR DETAILS

SCALE AS SHOWN FULL SIZE ONLY	JOB No. 6475
DRAWN BY J.M./J.M.	DRAWING NO. S-7
CHECKED BY J.H.	
DATE OCTOBER, 2022	
CAD FILE 6475 Dickson.dwg	

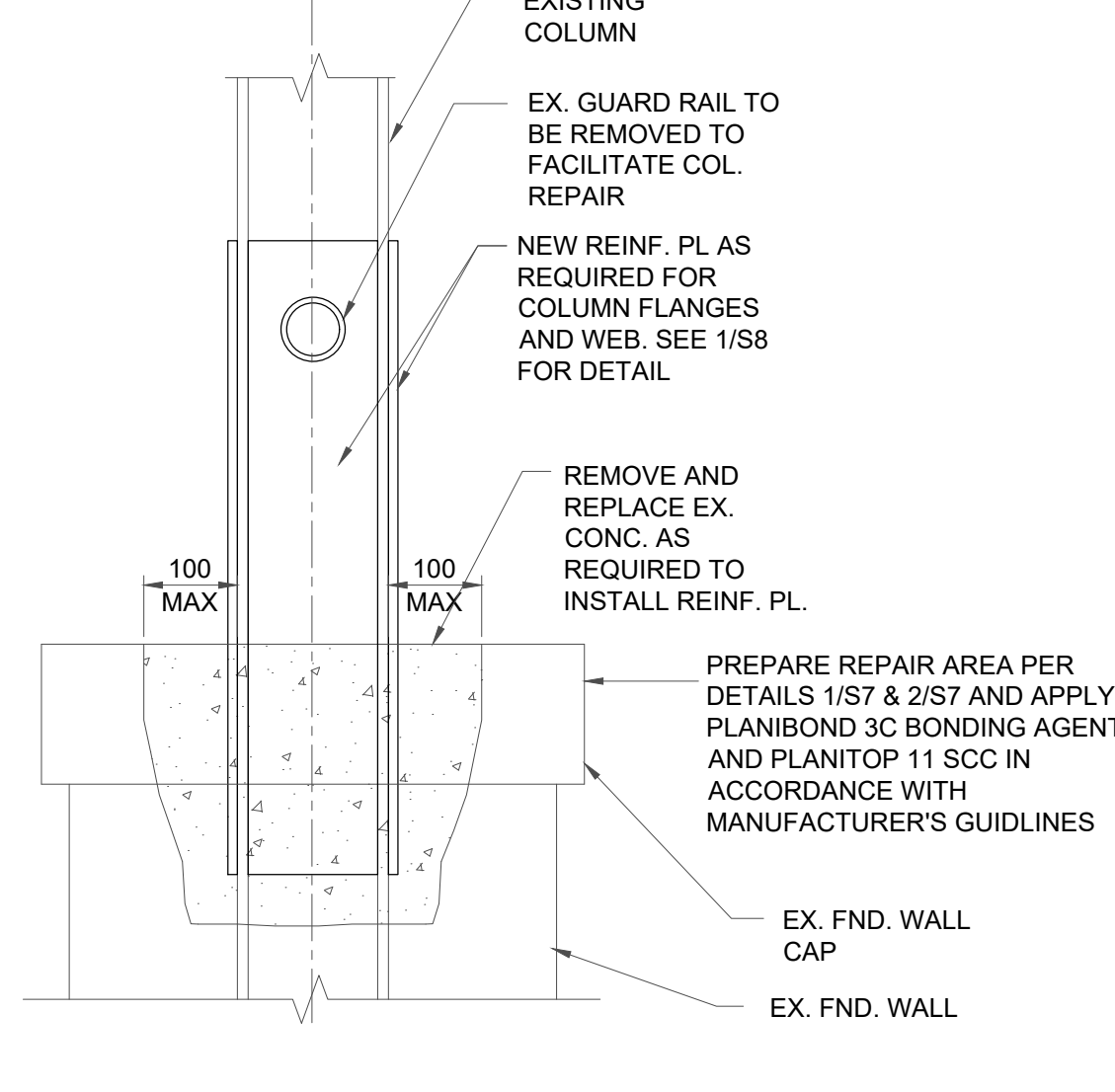




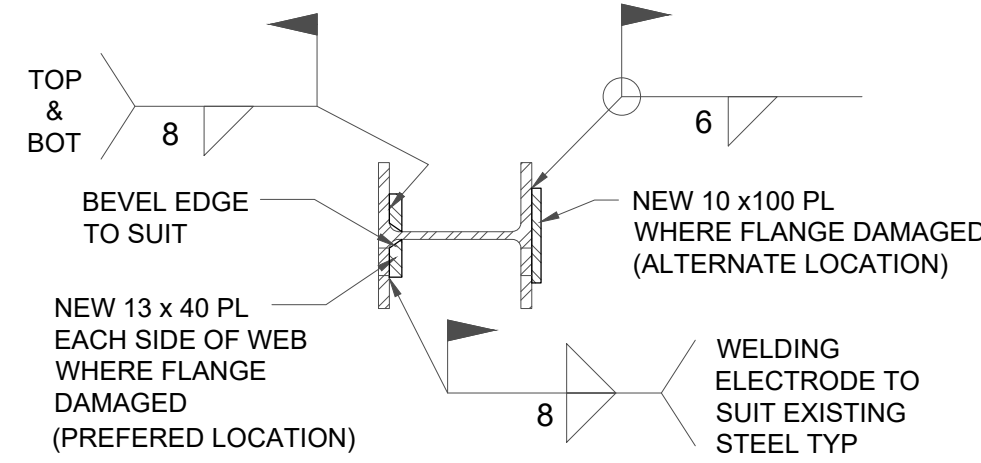
FLANGE REPAIR  
ELEVATION 1B S-8  
SCALE 1:8



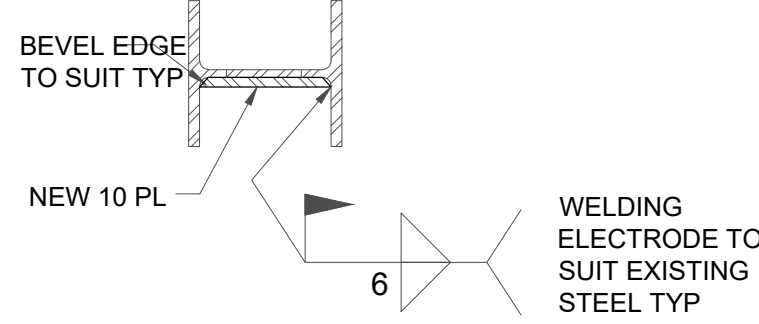
WEB REPAIR  
ELEVATION 1C S-8  
SCALE 1:8



2 S-8  
STEEL COLUMN BASE PREPARE DETAIL  
SCALE 1:8

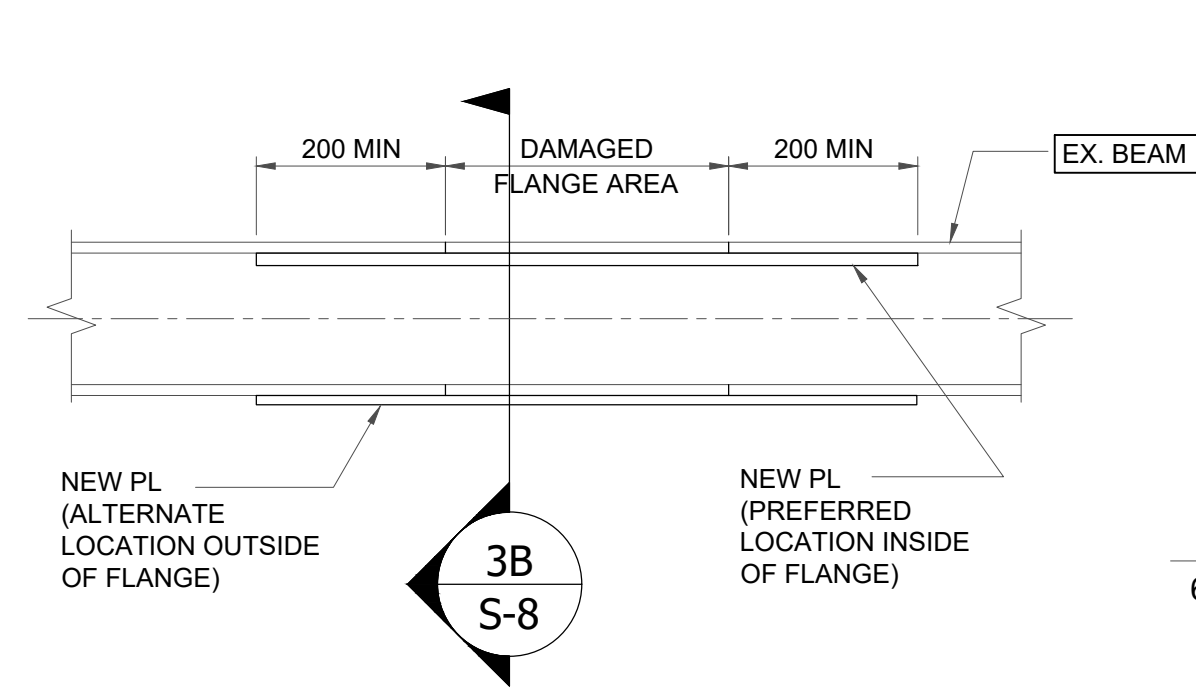


SECTION 1B S-8  
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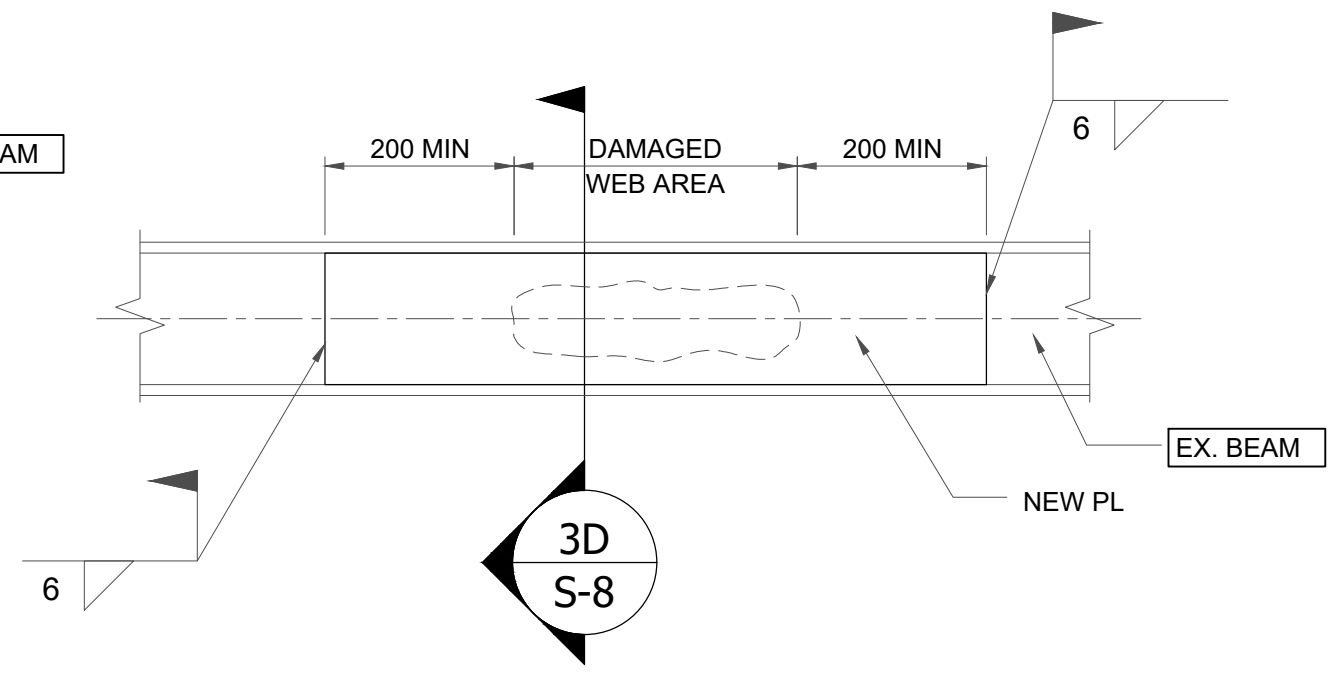


SECTION 10 S-8  
SCALE 1:8

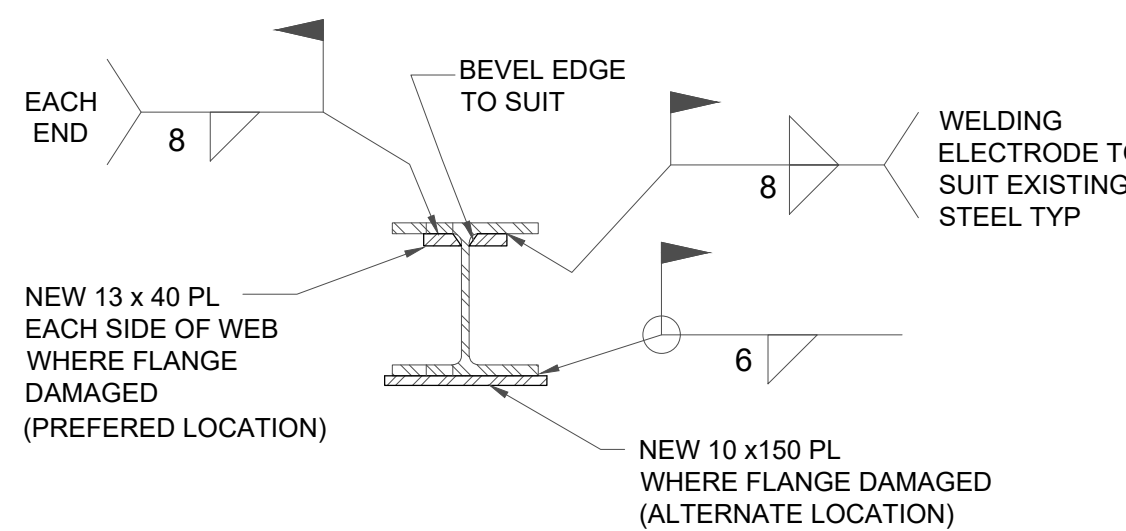
1 S-8  
STEEL COLUMN REINFORCING DETAIL  
SCALE 1:8



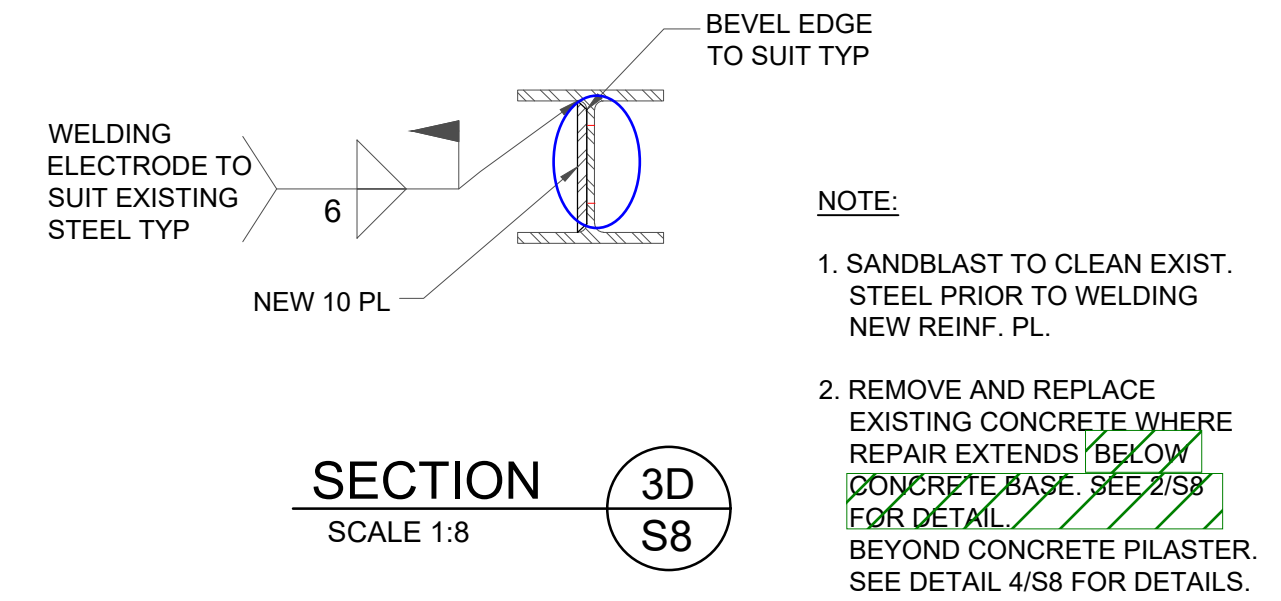
FLANGE REPAIR  
ELEVATION 3A S-8  
SCALE 1:8



WEB REPAIR  
ELEVATION 3C S-8  
SCALE 1:8

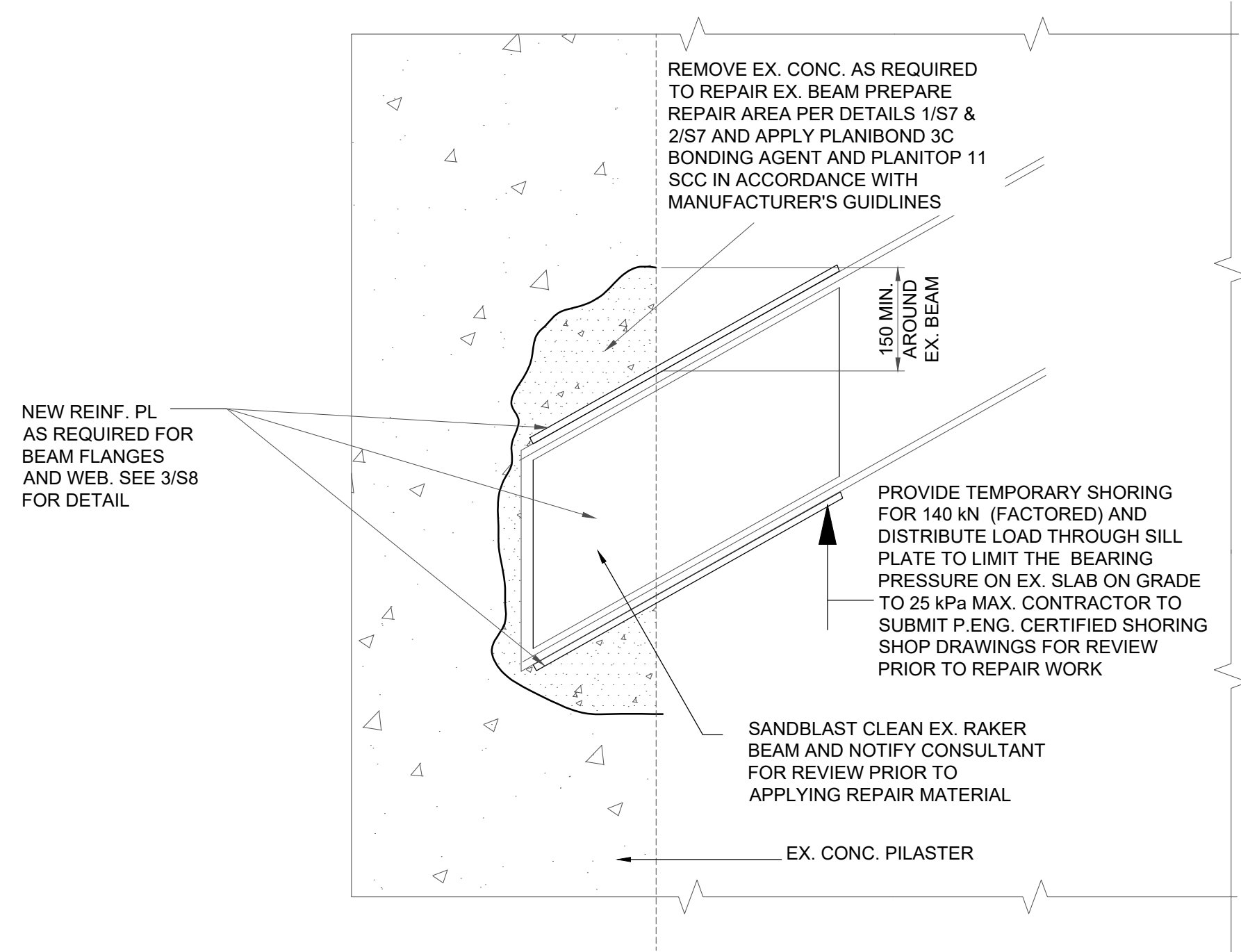


SECTION 3B S-8  
SCALE 1:8

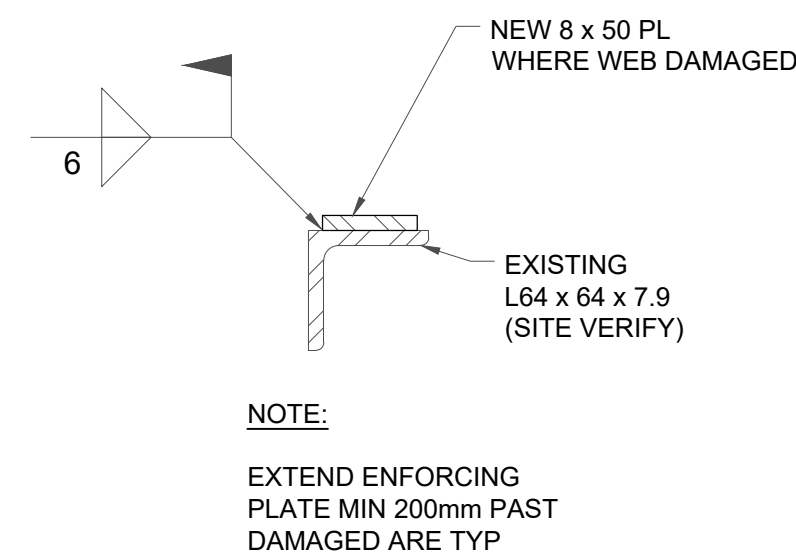


SECTION 3D S-8  
SCALE 1:8

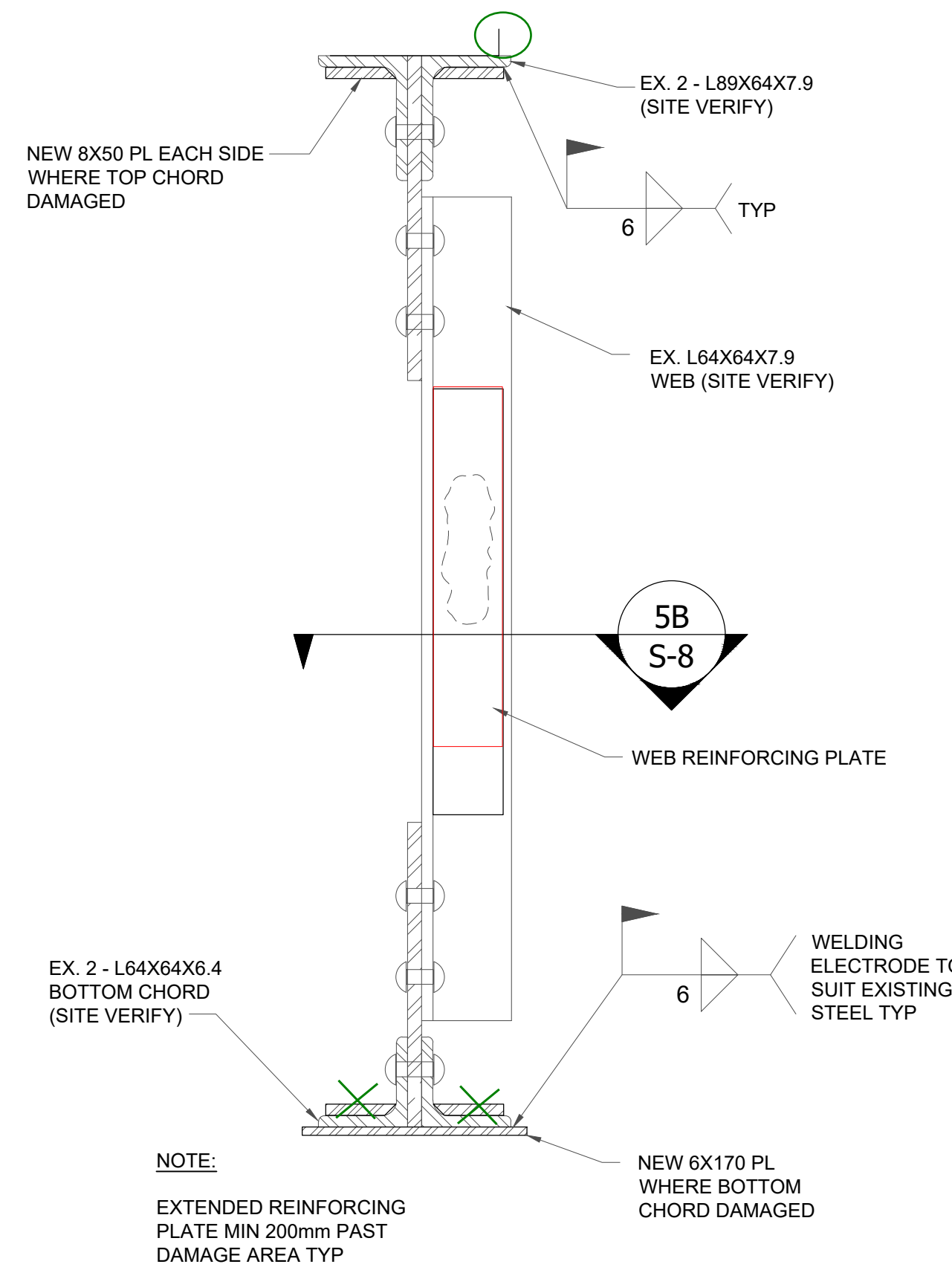
3 S-8  
STEEL BEAM REINFORCING DETAIL  
SCALE 1:8



4 S-8  
STEEL BEAM BEARING REPAIR DETAIL  
SCALE 1:8



WEB REPAIR  
SECTION 5B S-8  
SCALE 1:4



5A S-8  
TOP AND BOTTOM CHORD REPAIR  
SCALE 1:4

TRUE NORTH

No.	Date	Description
2	10.07.2022	ISSUED FOR FINAL REVIEW
1	07.11.2022	ISSUED FOR CLIENT 75% REVIEW
REVISIONS		PLOT SCALE: 1=1

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STAMP	STAMP

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PROJECT  
DICKSON STADIUM RENOVATION

LOCATION  
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SECTION DETAILS AND TYPICAL  
CONC. REPAIR DETAILS

SCALE AS SHOWN FULL SIZE ONLY DRAWN BY J.M./J.M.	JOB No. 6475
CHECKED BY J.H.	DRAWING NO. S-8
DATE OCTOBER, 2022 CAD FILE 6475 Dickson.dwg	





SCALE AS SHOWN FULL SIZE ONLY	JOB No. 6475
DRAWN BY J.M./J.M.	
CHECKED BY J.H.	DRAWING NO.
DATE OCTOBER, 2022	S-9
CAD FILE 6475 Dickson.dwg	