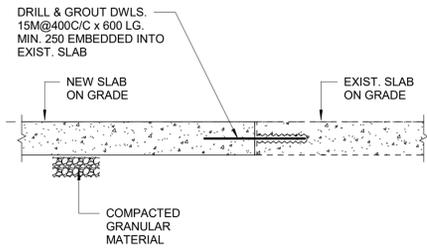
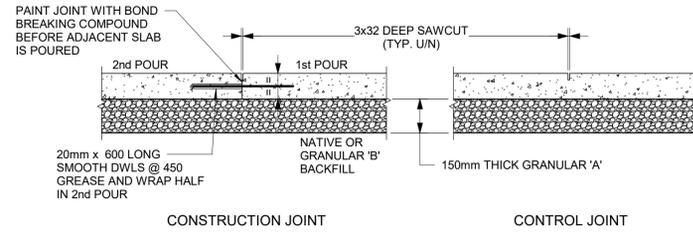


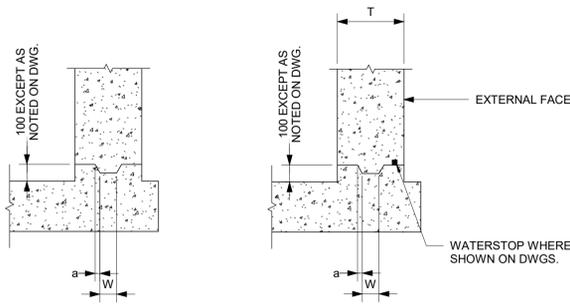
1 INTERIOR FOUNDATION WALL
D2100 Scale: NTS



2 NEW SLAB CONNECTION TO EXISTING SLAB
D2100 Scale: NTS



3 SLAB ON GRADE
D2100 Scale: NTS

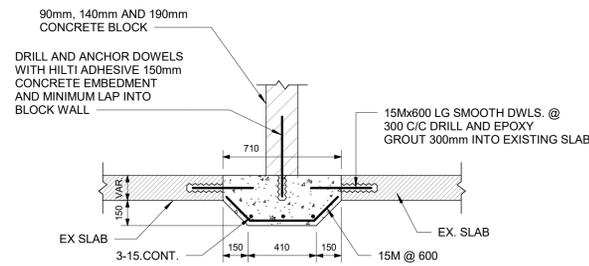


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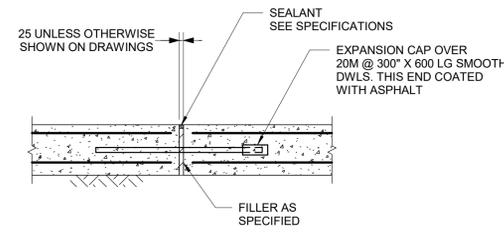
TYPE 1WS

WALL THICKNESS "T"	KEY SIZE		"a"
	"D"	"W"	
200 TO 300	50	100	5
310 TO 440	50	150	10
450 TO 590	75	200	20
600 TO 890	75	250	20

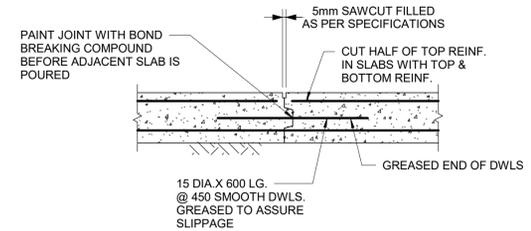
4 TYPICAL CONSTRUCTION JOINT AT EXTERIOR WALL
D2100 Scale: 1:20



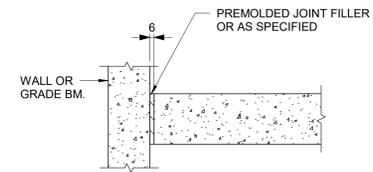
5 BLOCK WALL SLAB - THICKENING AT EXISTING SLAB
D2100 Scale: 1:20



EXPANSION JOINTS

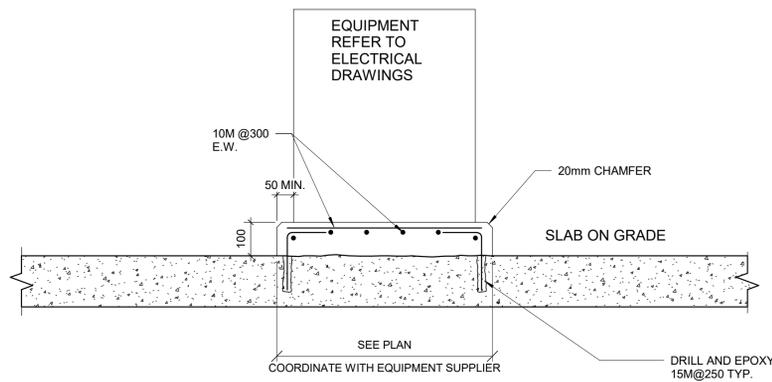


CONTROL JOINT



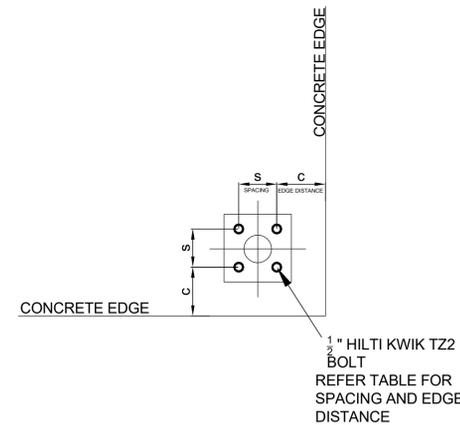
ISOLATION JOINT

6 FLOOR JOINTS
D2100 Scale: 1:20



MIN EMBEDMENT	S.O.G. THICKNESS
MIN 3"	125mm
MIN 4"	150mm
MIN 6"	200mm

7 TYPICAL HOUSEKEEPING PAD
D2100 Scale: 1:10



8 SPACING AND EDGE REQUIREMENTS FOR WEDGE ANCHORS (TYPICALLY USED FOR HANDRAILS)
D2100 Scale: 1:5

CONCRETE THICKNESS	EFFECTIVE EMBEDMENT	HILTI KWIKBOLT T22 CARBON STEEL, DIA 1/2"			
		Case 1		Case 2	
		MIN EDGE DIST. C _{MIN1}	FOR SPACING S _{MIN1}	MIN EDGE DIST. C _{MIN2}	FOR SPACING S _{MIN2}
200	83	57	133	121	51
150	64	70	248	203	76
125	51	70	140	254	89
100	38	203	305	203	305

ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2021-09-23
B	90% SUBMISSION	2022-01-04
C	ISSUED FOR PERMIT	2022-01-04
D	ISSUED FOR TENDER	2022-11-01

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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:
9119- 19- 0162 / IBI 122260

DRAWN BY:
G. POULOU

CHECKED BY:
T. MYSOREWALA

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
K. ANGER

SHEET TITLE
**CONCRETE TYPICAL
DETAILS - 1**

SHEET NUMBER
D2100

ISSUE
D

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C	ISSUED FOR PERMIT	2022-01-04
D	ISSUED FOR TENDER	2022-11-01

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PROJECT TITLE
 CITY OF TORONTO
 ACCESSIBILITY UPGRADES

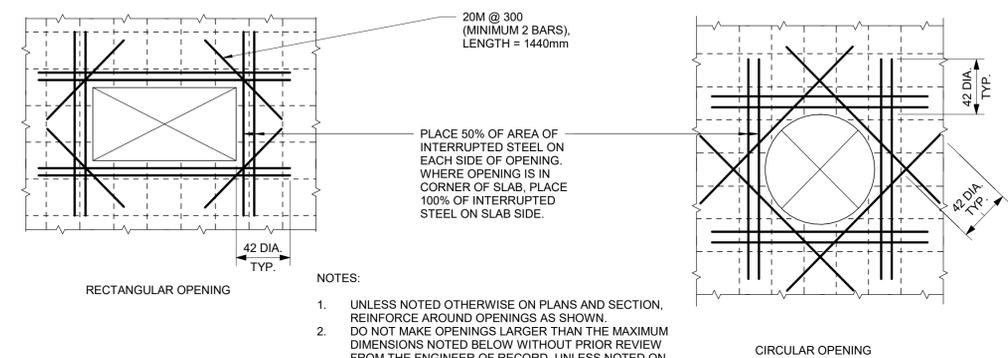
PROJECT ADDRESS

PROJECT NO:
 9119- 19- 0162 / IBI 122260

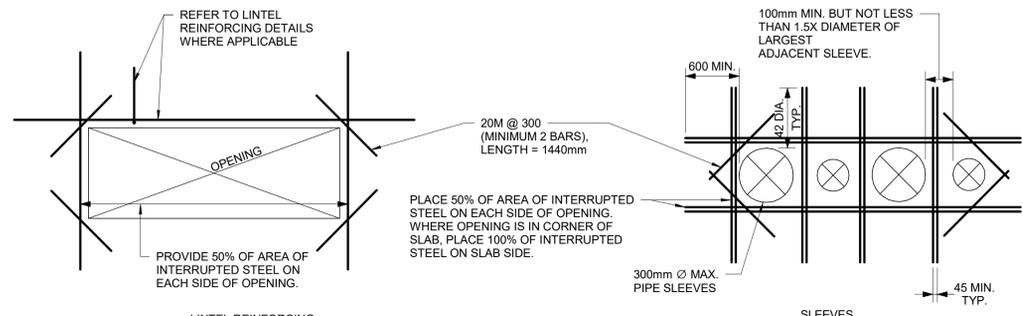
DRAWN BY: G. POULOU	CHECKED BY: T. MYSOREWALA
PROJECT MGR: F. BOLOURIAN	APPROVED BY: K. ANGER

SHEET TITLE
 CONCRETE TYPICAL
 DETAILS - 2

SHEET NUMBER D2102	ISSUE D
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- NOTES:**
- UNLESS NOTED OTHERWISE ON PLANS AND SECTION, REINFORCE AROUND OPENINGS AS SHOWN. DO NOT MAKE OPENINGS LARGER THAN THE MAXIMUM DIMENSIONS NOTED BELOW WITHOUT PRIOR REVIEW FROM THE ENGINEER OF RECORD, UNLESS NOTED ON STRUCTURAL DRAWINGS.
 - MAXIMUM SLAB OPENING SIZE IS 2500mm SQUARE OR ROUND U/I ON DRAWINGS. THIS DETAIL APPLIES FOR OPENINGS WITH A DIMENSION GREATER THAN 150mm. THIS DETAIL ALSO APPLIES AT PIPE OPENINGS.



* UNLESS OTHERWISE DETAILED ON PLANS OR SECTIONS

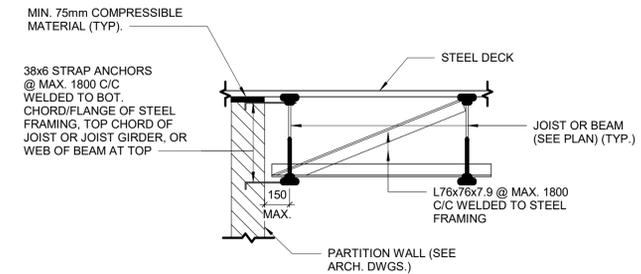
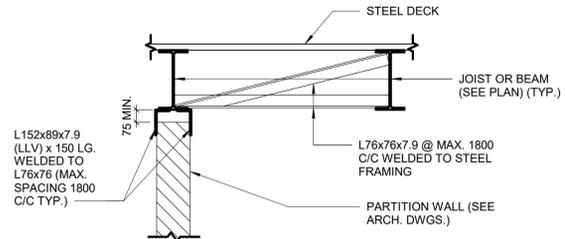
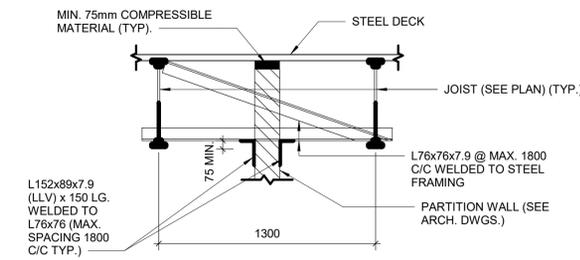
1 ADD'L REINF. TO OPENINGS IN CONC. WALLS AND SLABS
 Scale: 1 : 20



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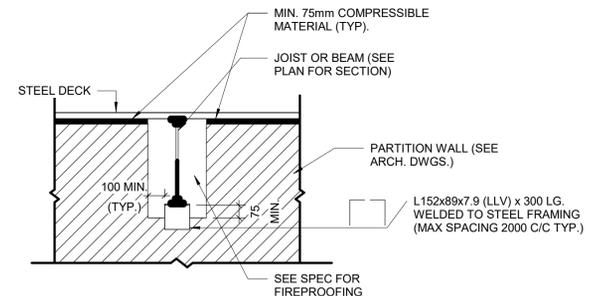
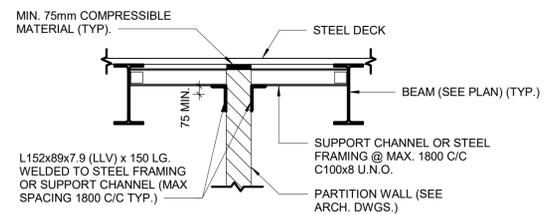
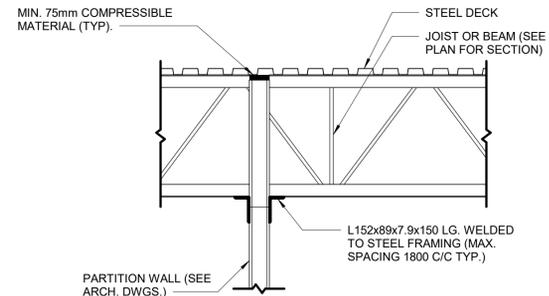
ISSUES		
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C	ISSUED FOR PERMIT	2022-01-04
D	ISSUED FOR TENDER	2022-11-01



1 PARTITION WALL BETWEEN JOIST
 D2200 Scale: 1:20

2 PARTITION WALL PARALLEL TO AND CENTERED ON JOIST OR BEAM
 D2200 Scale: 1:20

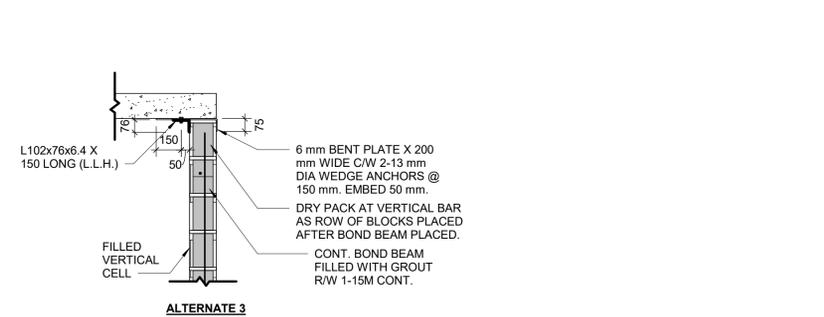
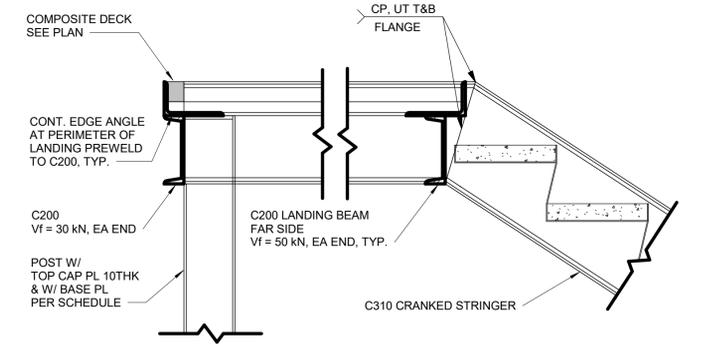
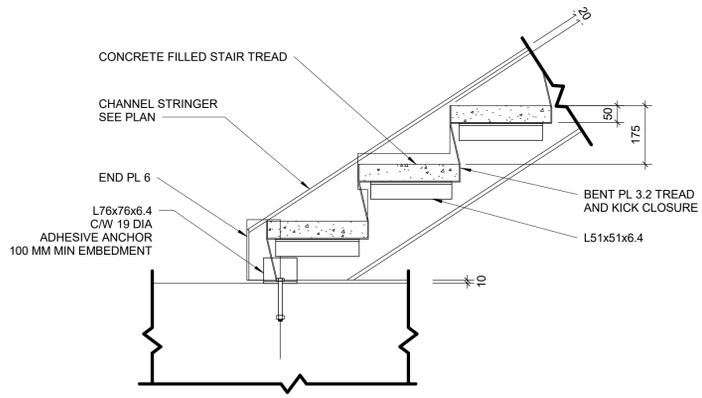
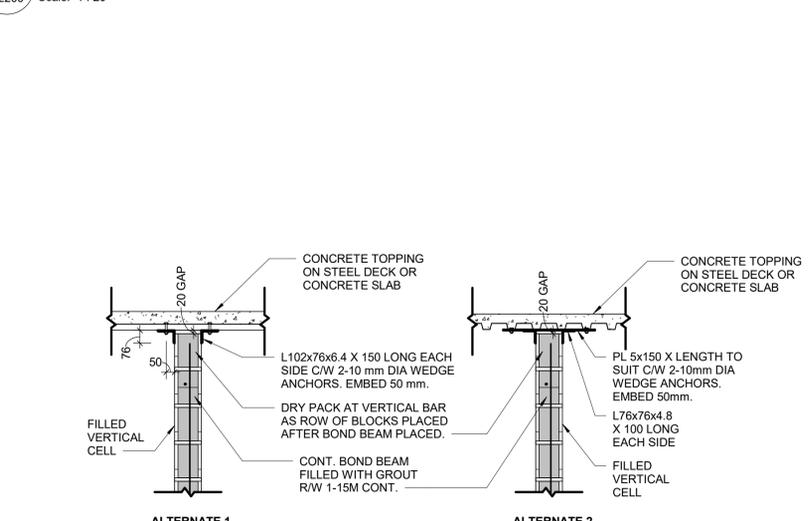
3 PARTITION WALL PARALLEL TO JOISTS OR BEAM
 D2200 Scale: 1:20



4 PARTITION WALL PERPENDICULAR TO JOIST OR BEAM
 D2200 Scale: 1:20

5 PARTITION WALL BETWEEN BEAMS
 D2200 Scale: 1:20

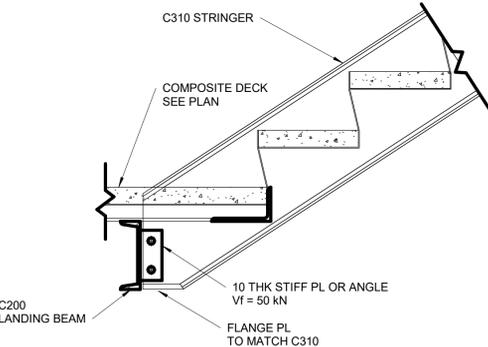
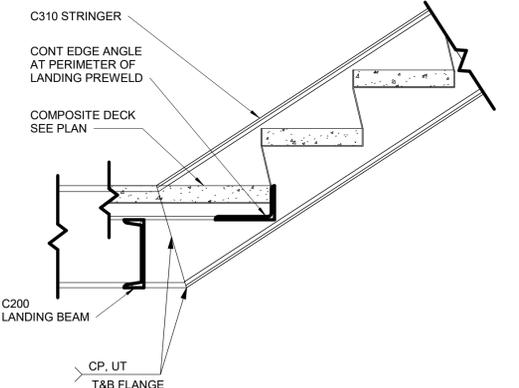
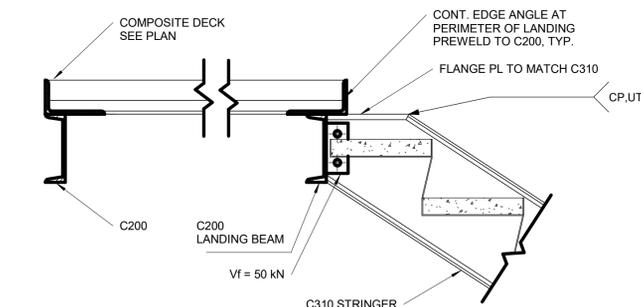
6 PARTITION PERPENDICULAR TO JOIST OR BEAMS
 D2200 Scale: 1:20



8 TYPICAL SLAB UNDER STRINGER
 D2200 Scale: 1:10

9 TYPICAL SECTION AT UPPER LANDING STRINGER
 D2200 Scale: 1:10

NOTES:
 1. ALL CONNECTIONS TO BE AT FILLED VERTICAL CELLS AT 1200 mm O/C MAXIMUM UNLESS NOTED OTHERWISE.
 2. FIELD WELD ANGLES TO EMBEDDED PLATE.



7 SUPPORT DETAIL AT TOP OF BLOCK WALL
 D2200 Scale: 1:20

10 TYPICAL SECTION AT UPPER LANDING
 D2200 Scale: 1:10

12 TYPICAL SECTION AT LOWER LANDING STRINGER
 D2200 Scale: 1:10

11 TYPICAL SECTION AT LOWER LANDING
 D2200 Scale: 1:10

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PROJECT TITLE
 CITY OF TORONTO
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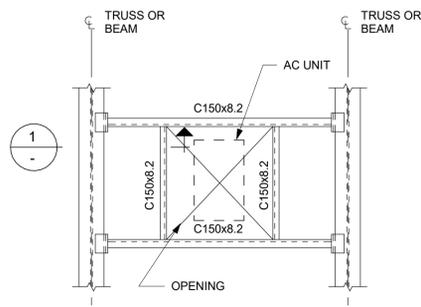
PROJECT ADDRESS

PROJECT NO:
 9119- 19- 0162 / IBI 122260
DRAWN BY:
 G. POULOU
CHECKED BY:
 T. MYSOREWALA
PROJECT MGR:
 F. BOLOURIAN
APPROVED BY:
 K. ANGER

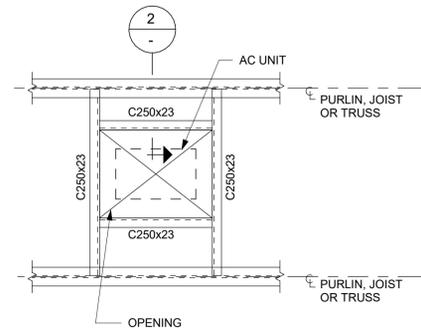
SHEET TITLE
 STRUCTURAL STEEL
 DETAILS - 1

SHEET NUMBER
 D2200

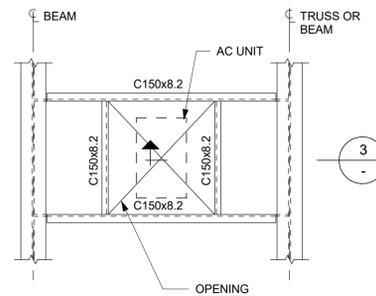
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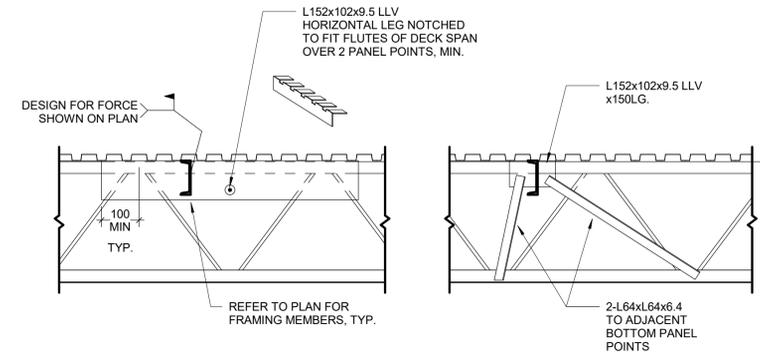
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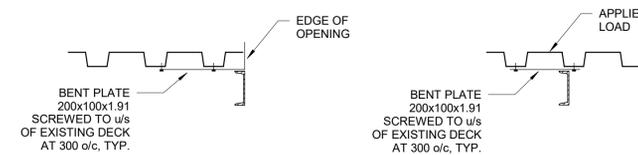
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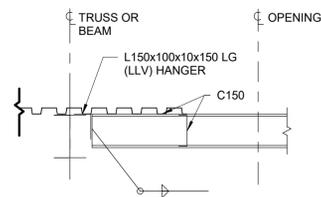


DETAIL AT EXISTING JOIST
(TWO OPTIONS SHOWN)

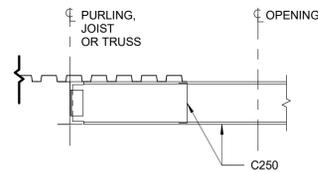


DETAIL AT EXISTING DECK

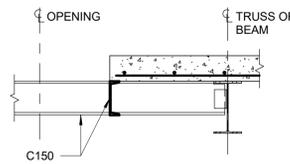
2 FRAMING INTO EXISTING STEEL JOISTS AND DECK
D2201 Scale: 1 : 20



1

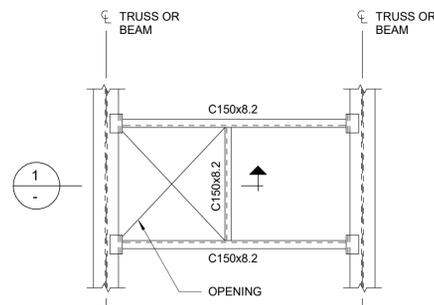


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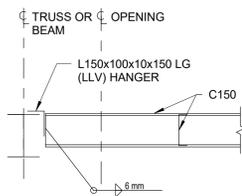


3

1 TYPICAL ROOF OPENING
D2201 Scale: 1 : 20

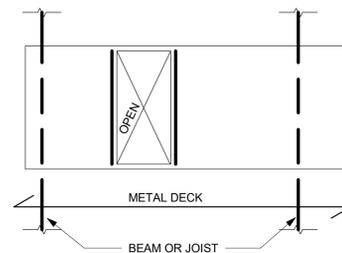


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1

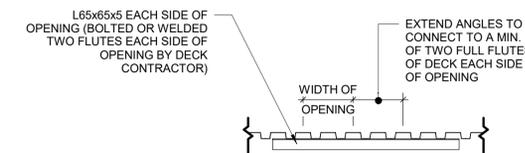
3 TYPICAL ROOF OPENING ADJACENT TO BEAM
D2201 Scale: 1 : 20



4 OPENINGS IN METAL ROOF DECK
D2201 Scale: 1 : 20

NOTES:

1. OPENINGS UP TO 150mm SQUARE OR IN DIAMETER AND SPACED A MINIMUM 300mm CLEAR FROM ADJACENT OPENINGS DO NOT REQUIRE REINFORCING.
2. OPENINGS LARGER THEN 150mm, BUT NOT EXCEEDING 450mm, ARE TO BE REINFORCED. SEE DETAIL 7/D2201.
3. OPENINGS LARGER THAN 450mm UP TO MAXIMUM ON DETAIL 1/D2201 1200mm SQUARE ARE TO BE REINFORCED AS SHOWN ABOVE, UNLESS INDICATED OTHERWISE ON PLAN.
4. CONNECT FRAMING FOR A MINIMUM END REACTION OF 10KN.



5 METAL DECK OPENINGS 200 TO 360 WIDE
D2201 Scale: 1 : 20

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ACCESSIBILITY UPGRADES**

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PROJECT NO:
9119- 19- 0162 / IBI 122260

DRAWN BY:
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CHECKED BY:
T. MYSOREWALA

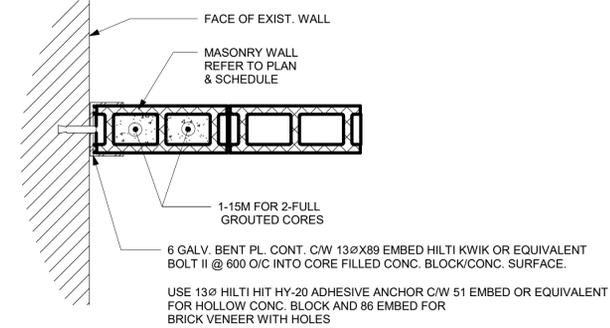
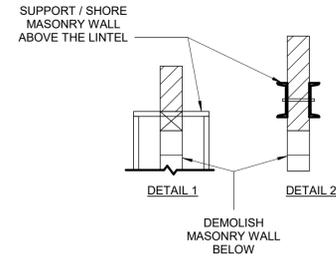
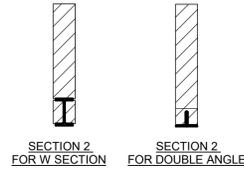
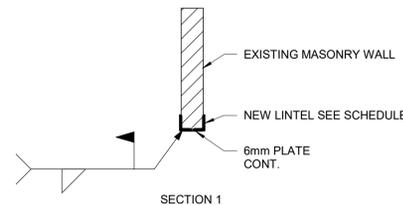
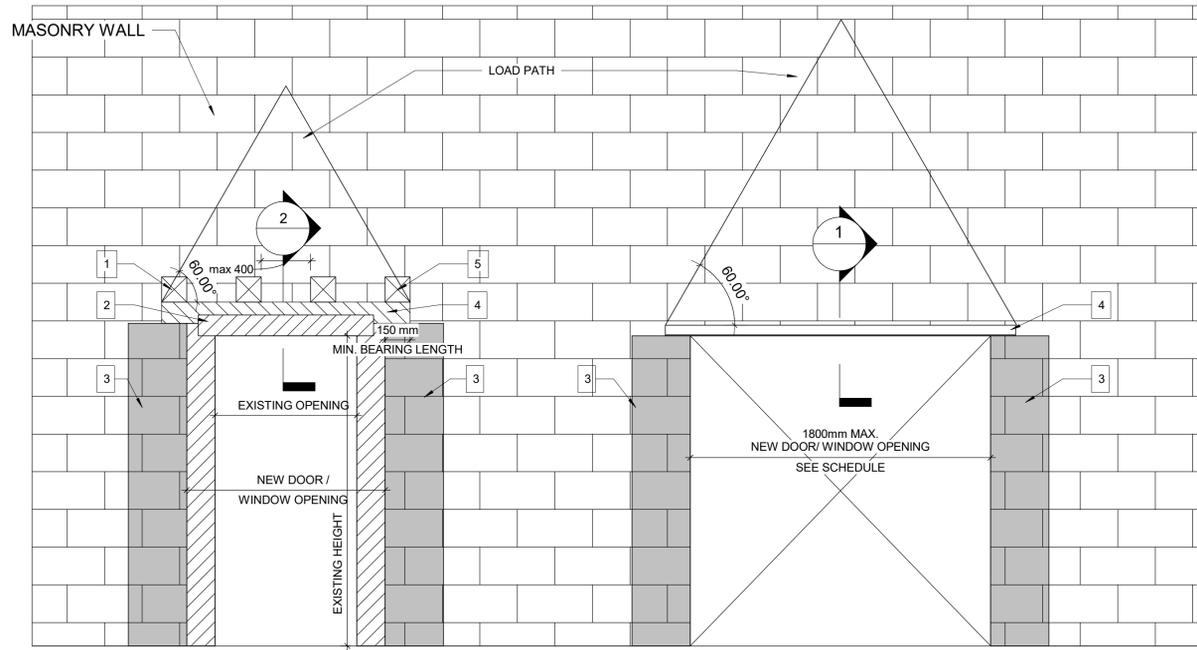
PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
K. ANGER

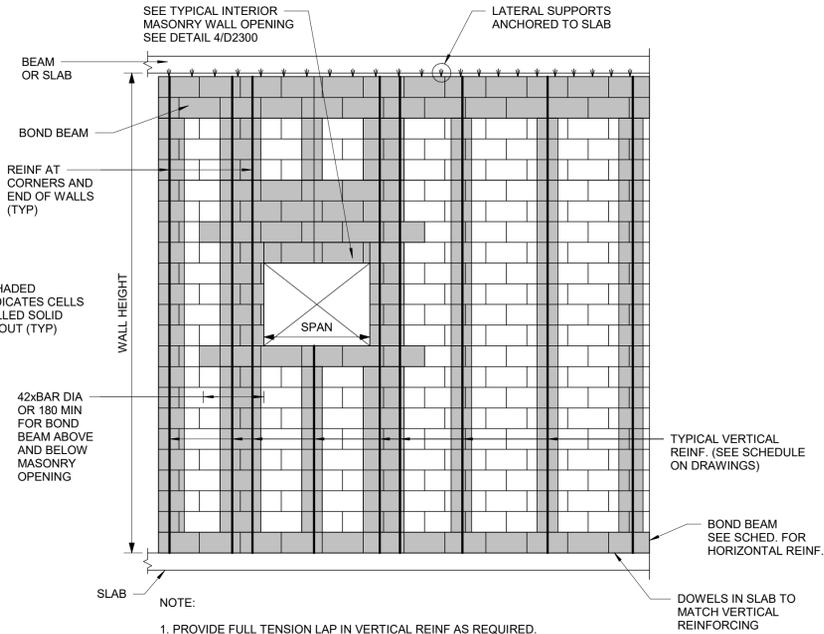
SHEET TITLE
**STRUCTURAL STEEL
DETAILS - 2**

SHEET NUMBER
D2201

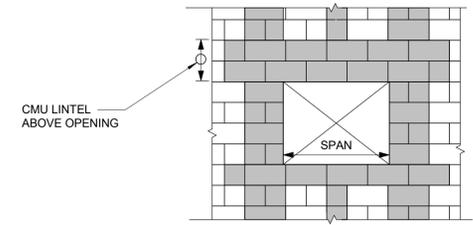
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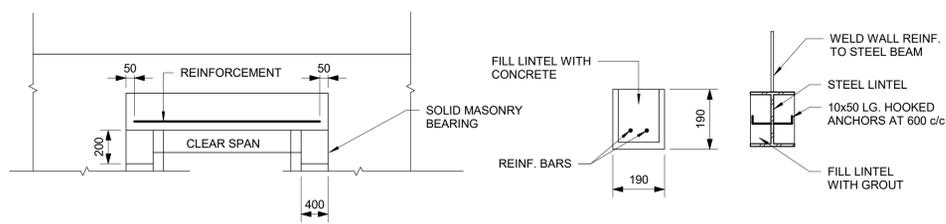
2 TYPICAL CMU WALL CONNECTION TO EXISTING WALL
D2300 Scale: 1 : 10



3 TYPICAL NEW MASONRY WALL DETAILS
D2300 Scale: 1 : 20



4 OPENING IN NEW MASONRY WALL
D2300 Scale: 1 : 20



- NOTES:
- BLOCKS ABOVE LINTELS TO BE FILLED SOLID WITH GROUT FOR HEIGHT EQUAL TO SPAN.
 - SHORE LINTELS UNTIL GROUT REACHES DESIGN STRENGTH.
 - FOR STEEL LINTELS PROVIDE STEEL PACKING PLATES TO ENSURE EVEN BEARING.
 - EXTERIOR STEEL LINTELS SHALL BE HOT DIP GALVANIZED.

5 MASONRY LINTELS FOR NON LOAD BEARING WALLS
D2300 Scale: 1 : 20

WIDENING AN EXISTING OPENING IN EXISTING MASONRY WALL TYP.

NEW DOOR/WINDOW OPENING INTO EXISTING MASONRY WALL TYP.

PROPOSED SEQUENCE OF WORK

1	CREATE NEW 150x150mm HOLES @ 400mm INTO EXISTING MASONRY WALL AND SHORE THE WALL ABOVE, SEE DETAIL 1. OR SHORE THE WALL ABOVE BY USING 2 CHANNELS BACK TO BACK AND THROUGH BOLTS @350mm, SEE DETAIL 2
2	DEMOLISH THE EXISTING LINTEL, THE VOID FOR NEW BEAM AND THE WALL FROM EACH SIDE OF THE NEW OPENING
3	FILL TWO CORES MIN. OF EXISTING MASONRY WALL WITH GROUT EACH SIDE OF THE NEW OPENING. (DRILL HOLES TOP AND BOTTOM OF EACH CORE, INJECT GROUT, CLOSE HOLES WITH MORTAR AND MAKE GOOD SURFACE)
4	INSTALL NEW LINTEL. SEE LINTEL SCHEDULE FOR LINTEL SIZE
5	ADD MASONRY FACES AT LINTEL AND REPAIR MASONRY COURSE

LINTEL:

OVER ALL OPENINGS IN MASONRY WALLS PROVIDE THE FOLLOWING LINTELS. UNLESS OTHERWISE SHOWN.

STEEL LINTELS

CLEAR SPAN mm (ft-in)	140 (6") WALL	190 (8") WALL	240 (10") WALL	290 (12") WALL	350 WALL	430 WALL
UP TO 1200 (4'-0")	L127x127x7.9	2-L89x89x7.9 +170x6mm PL	L89x89x7.9 +L127x89x7.9 LLV +220x6mm PL	3-L89x89x7.9 +270x6mm PL	3-L127x89x7.9 (LLV)	3-L127x127x7.9 +410x6mm PL
1201 TO 1800 (4'-0" - 6'-")	2-L89x64x6.4LLV	2-L127x89x7.9LLV	L127x89x7.9LLV +L127x127x7.9	3-L127x89x7.9LLV		
1801 TO 3100 (6' - 10")	2-L89x64x9.5LLV	2-L152x89x9.5LLV	2-L152x89x9.5LLV	3-L152x89x9.5LLV		

- TO INSTALL A LINTEL TO THE EXISTING BLOCK WALL FOR A NEW OPENING, CUT A GROOVE THROUGH THE EXISTING BLOCK WALL AT THE TOP OF THE NEW OPENING AND INSTALL THE ANGLE FROM ONE SIDE OF THE WALL FOR SINGLE ANGLE OR FROM BOTH SIDES OF THE WALL FOR DOUBLE ANGLE AND THEN CUT THE OPENING.
- MINIMUM BEARING FOR STEEL LINTELS SHALL BE 150mm
- ALL STEEL LINTELS AND SHELF ANGLES IN THE EXTERIOR MASONRY SHALL BE HOT DIP GALVANIZED
- THESE LINTELS ARE FOR NON-LOAD BEARING WALLS. VERIFY THE WALLS DO NOT SUPPORT FLOOR OR ROOF FRAMING. DO NOT IN LOAD BEARING WALLS UNLESS REVIEWED BY THE CONSULT.
- VERIFY THE FOLLOWING:
 - NO CONTROL OR MOVEMENT JOINTS ABOVE THE LINTEL AND/OR BEYOND THE OPENING.
 - WALL EXTENDS MINIMUM 50% OF SPAN (AND 50% OF OPENING HEIGHT) BEYOND THE OPENING.
 - WALL EXTENDS MINIMUM 70% OF SPAN ABOVE THE OPENING.
- STRENGTHEN BEARING POINTS TO FOUNDATION, OR 400 DEEP WHEN SPAN BELOW 3600. GROUT CMU OR STONE MASONRY, BRICK IN AND GROUT VOIDS IN MULTI-WY THE BRICK, REPORT MORTAR JOINTS.
- DRYPACK WITH NON-SHRINK GROUT WHERE NECESSARY TO ACHIEVE UNIFORM BEARING THROUGHOUT. ENSURE EVEN BEARING BELOW LINTEL ENDS.
- SEE GENERAL NOTES FOR OTHER REQUIREMENTS (I.E. GROUT BEARING POINTS).
- HOT-DIP GALVANIZE LINTELS IN EXTERIOR WALLS EXPOSED TO WEATHER.
- SEE ARCH FOR STEEL FIRE PROTECTION.
- DOUBLE BEARING LENGTH FOR SOFT OR MEDIUM BRICK IN LIME MORTAR, AND FOR RUBBLE STONE IN LIME MORTAR OR LIME AND CEMENT MORTAR.

1 WIDENING MASONRY WALL OPENING OR NEW OPENING IN EXISTING MASONRY WALL
D2300 Scale: 1 : 20

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ISSUES	No.	DESCRIPTION	DATE
	A	50% SUBMISSION	2021-09-23
	B	90% SUBMISSION	2022-01-04
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PROJECT TITLE
**CITY OF TORONTO
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

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SHEET TITLE
MASONRY DETAILS

SHEET NUMBER
D2300

ISSUE
D