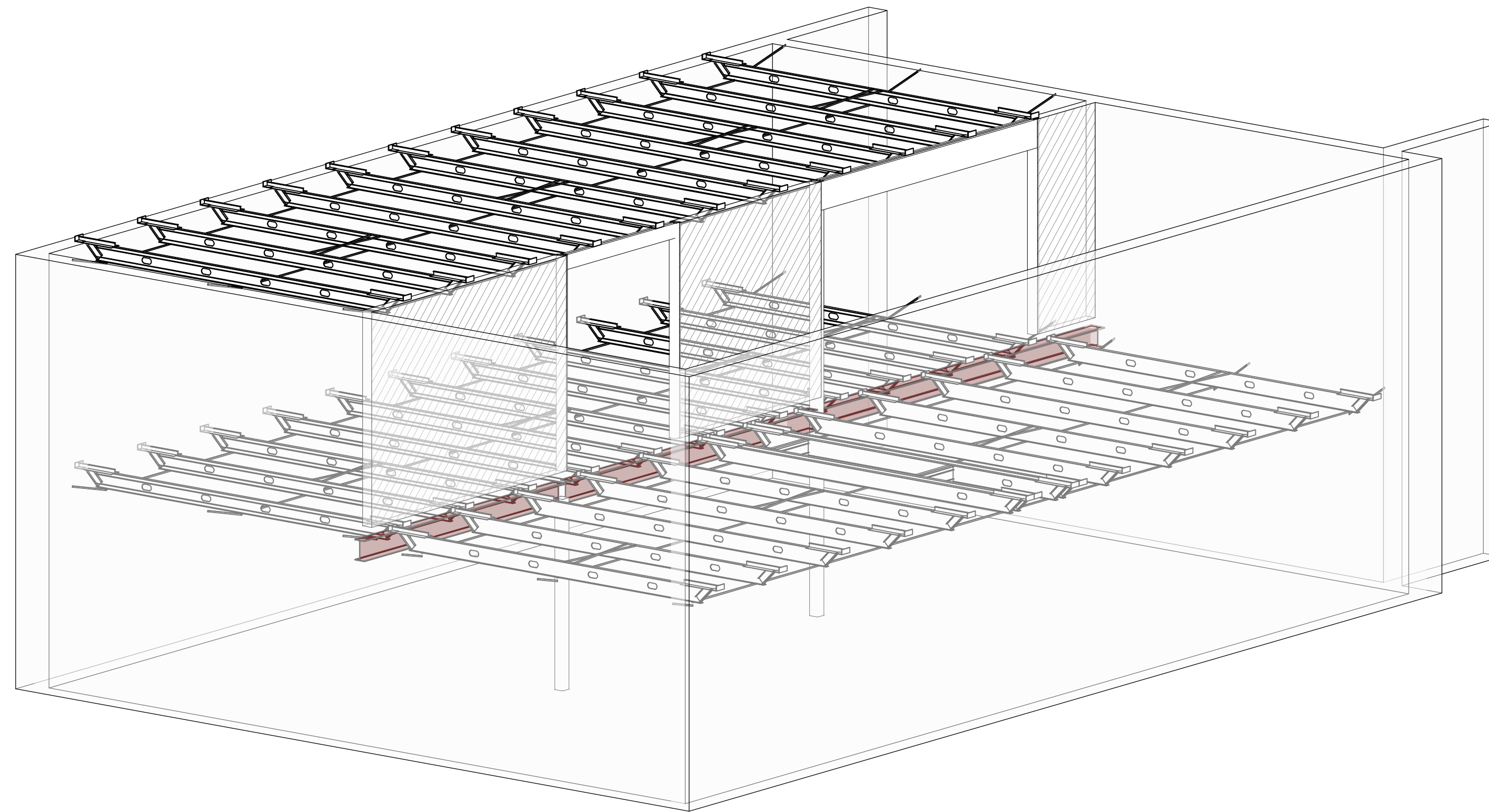
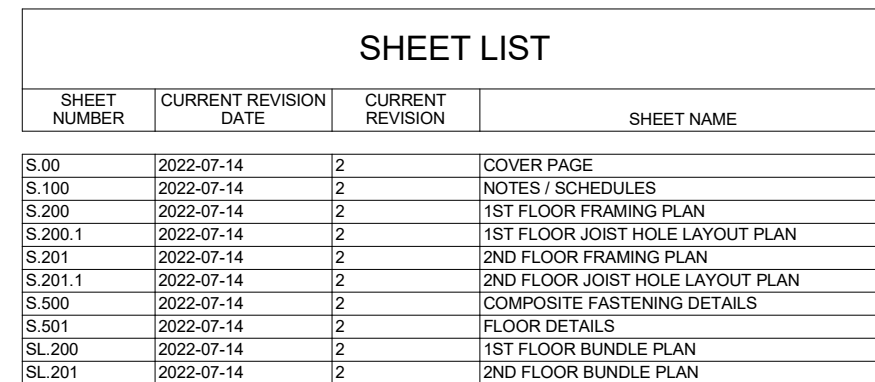


541 BLOOMFIELD RIDGE S RD, ESN 474, NEW BRUNSWICK



CONSULTANT DRAWING REVISION SCHEDULE							
ARCHITECTURAL REVISION	ARCHITECTURAL REVISION DATE	ELECTRICAL REVISION	ELECTRICAL REVISION DATE	MECHANICAL REVISION	MECHANICAL REVISION DATE	STRUCTURAL REVISION	STRUCTURAL REVISION DATE
1	2022-06-13	N/A	N/A	N/A	N/A	1	2022-06-13

[illegible]

ISPAN SYSTEMS LP
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ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF ISPAN SYSTEMS LP AND MAY NOT BE USED OR REPRODUCED WITHOUT THE WRITTEN APPROVAL OF ISPAN SYSTEMS LP.

READ THE DRAWING IN CONJUNCTION WITH THE STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. THE OWNER (OR APPOINTED REPRESENTATIVE) AND THE CONTRACTOR SHALL CHECK THE DRAWINGS FOR CONFLICTS IN DIMENSIONS AND LOCATIONS BUILDING COMPONENTS RELATED TO THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO ISPAN SYSTEMS LP BEFORE THE START OF THE WORK.

DRAWINGS SHALL NOT BE SCALED.

CLIENT NAME

ELLIS HENRICKS

PROJECT NAME HENRICKS HOME

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DATE: 2022/04/08

SCALE:

S.00

GENERAL NOTES

- 1.0

The design of the work displayed on these drawings is in accordance with the NBCC 2020, CSA standard S136-16 North American standard for the design of cold formed steel structural members, CSA A23.3-14 design of concrete structures and CAN/CSA S16-19 design of steel structures.
- 2.0

These drawings are to be read in conjunction with the structural, architectural, mechanical, and electrical drawings. The owner (or appointed representative) and the contractor shall check the drawings for conflicts in dimensions and locations of building components related to the work shown on these drawings. Any discrepancies shall be reported to iSPAN Systems LP before the start of the fabrication process.
- 3.0

Provision for future expansion or alterations:

3.01The structure has not been designed for future lateral expansion.

3.02The structure has not been designed for future vertical expansion.
- 4.0

The installer shall notify iSPAN Systems LP of any damage to product prior to it being installed and within 24 hours of delivery. iSPAN will address the damage promptly and / or agree on a solution to proceed at iSPAN's cost. If damaged product is installed or notification is given later than 24 hours from delivery, the installer shall be responsible for the cost of labour and material to repair damaged materials.
- 5.0

iSPAN Systems LP issues drawings for various stages of a job. Information presented on these drawings may differ from drawings and / or documents provided by other firms and / or from previously submitted drawings by iSPAN Systems LP. Differences may be from, but not limited to, interpretations of contract requirements, provisions for structural performance, or manufacturing capabilities. The most recent set of drawings sealed by an iSPAN engineer take precedence over all previous drawings / documents. The customer shall perform a thorough review of all items shown on each drawing set received in order to confirm adherence to the contract requirements.
- 6.0

Approval from the customer, or delegated customer representative is required in order to proceed with manufacturing / fabrication. When the approval stamp is present, please sign and date each drawing and clearly indicate any changes required. Failure to do so in a timely manner may result in project delays or additional costs. Changes requested on the drawings are not binding unless subsequently agreed to in writing by iSPAN Systems LP. Approval of iSPAN drawings constitute agreement that the iSPAN products as shown represents the total of the materials to be supplied. Any change request that occurs after approval may result in additional costs and delays.

LOADING

- 1.0

General

1.01The structure has been designed for the loads shown on these drawings only. No other loads have been considered in the design including, but not limited to, lateral loads, loads to support top of concrete / masonry walls, loads to brace beams by others, etc.

1.02If additional loading is required that is not shown on these drawings, the consultant responsible for the design of the element imposing load shall provide the following to iSPAN:

i.

Specified load magnitude and type.

ii.

Specified load location at all locations where loads are imposed.
- 2.0

Gravity Loads

Floors			
Live Loads			
Units	40 psf		
Dead Loads			
CTJ W/ 4" SLAB	75 psf		

2.01Garage floor system is designed for a 4050lb point load at any location.

2.02See plans for special loading areas.

3.0

Lateral Loads

3.01Design of lateral force resisting system, including vertical (e.g., shear walls) and horizontal (e.g., diaphragm, collectors, drag struts) lateral force resisting systems by others.

4.0

Deflection Limits

Floor		Roof	
LIVE LOAD	L/480	LIVE LOAD	L/360
TOTAL LOAD	L/240	TOTAL LOAD	L/180
- MATERIAL
- 1.0

Miscellaneous Metals

1.01All miscellaneous materials shall be designed by others. Where loads are imposed on the structure from the miscellaneous materials, the designer of the miscellaneous material shall inform iSPAN of location(s), load type and magnitude of all loads.

1.02Elements not specified upon these drawings shall be deemed as miscellaneous metals.

1.03Examples of miscellaneous materials include, but are not limited to, ladders, railings, stair stringers, risers, treads, permanent seating and associated framing, permanent shelving and associated framing, grating, framing to support finishing materials, etc.

2.0

CFS Material

2.0118ga joists: ASTM A653 SS grade 50.

2.0216ga and 14ga joists: ASTM A653 HSLAS grade 60

2.03Galvanized coating thickness is minimum G60

2.04All other sheet metal: ASTM A653 SS grade 50 U.N.O.

3.0

Fasteners

3.01Anchor bolts conform to ASTM A307 grade C.

3.02Structural bolts, nuts and washers conform to ASTM F3125 A325.

3.03Sheet steel screws shall be ITW self drilling, self tapping screws or equivalent.

3.04All sheet steel screws and connectors shall be corrosion resistant. minimum coating 0.0007" of mechanical zinc.

4.0

Welded Connections

4.01Arc welding shall be performed by a fabricator certified in accordance with appropriate AWS S standards and procedures for the type and position of welding being performed.

4.02Arc welds thickness from 1/32" to 1/8". Welding shall conform to the requirements of AISI S100 and shall be performed with the applicable requirements of AWS D1.3.

4.03When welding thicknesses over 1/8", welding shall conform to AWS D1.3.

5.0

Concrete For Floors

5.01Concrete shall be minimum 3000 psi compressive strength in accordance with ACI 318-[19].

5.02Max water to concrete ratio of 0.55.

5.03Max siliceous or carbonate aggregate in accordance with ACI 318-[19].

5.04Areas exposed to freezing and thawing shall have 6% to 8% air entrainment (class f1).

5.05Concrete in garage areas shall contain minimum 6x6 6/6 welded wire mesh. Concrete in all other areas may contain macro synthetic fiber approved included in UL G555 at a dosage of 4 lbs/yd³ in lieu of or in addition to welded wire mesh.

5.06Contractor shall coordinate compressive strength tests during each pour, min. 3 cylinders per 100 yd³ and shall forward the test results to iSPAN.

EXECUTION

1.0

General

1.01Fabrication and erection shall conform to the approved shop drawings. Modifications required to accommodate as-built conditions shall be submitted to iSPAN for approval prior to making modifications.

1.02Any unauthorized modifications shall be repaired in accordance with iSPAN and / or engineer of record direction at the contractor's expense, including labour, materials, and engineering cost.

2.0

Fasteners And Welds

2.01Ensure that connected parts are in contact. Provide clamping before welding or mechanically fastening as required.

2.02Companies engaged in welding shall be certified by the American Welding Society, see 'materials, section 4.0' for details.

2.03Touch-up welds and coatings damaged by welding with zinc rich paint according to ASTM A-780.

2.04Penetration of sheet metal screws beyond joined materials shall be not less than 3 exposed threads. Sheet metal screw installation shall conform to the manufacturer's recommendations.

2.05Screws shall not be placed closer than 3 times the diameter from the edge of any part nor shall they be closer than 3 times the diameter to adjacent screws.

2.06Sheet metal screws covered by sheathing materials shall have low profile heads.

2.07Install concrete anchors in accordance with manufacturer's recommendations, including drilling and cleaning procedures, minimum edge distance and minimum anchor spacing. (See iSPAN details for minimum anchor embedment as required).

3.0

Handling And Storage Of Materials

3.01Products shall be protected from conditions that may cause physical damage or corrosion.

3.02Handling and lifting of prefabricated panels and joists shall not cause permanent distortion to any member or collateral material.

4.0

Erection

4.01Methods of construction may be either piece by piece (stick-built) or by fabrication into panels (panelized) either on or off site.

4.02Do not exceed design loads during construction.

4.03Temporary bracing shall be employed wherever necessary to withstand all loads to which the structure may be subject to during erection and subsequent construction. Temporary bracing shall be left in place as long as required for the safety and integrity of the structure. The erector shall ensure that during the erection, a margin of safety consistent with the requirements of the IBC and AISI S100 exists in the uncompleted structure.

4.04Framing shall be erected according to AISI S202 under the direct supervision of an approved and qualified foreman.

4.05Do not cut openings in framing members except when approved in writing by iSPAN. Cutting of steel members, when approved, shall be by saw or shear, torch cutting is not permitted.

4.06For the purposes of this section, camber is defined as the deviation from straightness of a member or any portion of a member with respect to its major axis, and sweep is defined as the deviation from straightness of a member or any portion of a member with respect to its minor axis.

For joists, sweep shall not exceed 1/720 of the member length.

4.07Align web cut-outs in joists for the installation of services.

4.08Make all field measurements necessary to ensure the proper fit of all members.

4.09Members with localized damage are to be replaced unless a written repair detail is provided by iSPAN. Any damage shall be brought to attention of iSPAN immediately upon observation. Do not proceed until damage has been reviewed and direction has been provided in writing by iSPAN.

4.10For variances of underside of joist elevation, the drywall contractor shall include shimming (including labour and materials) within their scope.

5.0

Concrete Placement

5.01Concrete shall be placed in accordance with ACI 301

5.02Concrete slab shall be placed to a constant thickness with a tolerance of +3/8" / - 1/4".

5.03Floor flatness shall conform to:

i.

90% compliance with 1/4" maximum gap under a 10' unleveled straight edge.

ii.

100% compliance with 3/8" maximum gap under a 10' unleveled straight edge.

iii.

Testing of floor flatness to comply with ACI 117.

5.04Construction joints in concrete floors are to be placed:

i.

Over supporting walls / beams when perpendicular to joists.

ii.

Centered between joists when parallel to joists.

iii.

Joint surfaces to be left rough and wire mesh sheet to be centered on joint.

5.05Concrete contractor shall take all appropriate measure for cold weather application. Cold weather application procedures are required when the temperature is expected to drop below 40°F within 24 hours of placing concrete as predicted by the nearest meteorological office:

i.

General contractor to ensure all required materials and equipment for cold weather concreting are on hand and ready for use prior to placement of concrete. This may include but is not limited to, heaters, insulating blankets, tarps, and protection below the floor being poured. Ensure all snow and ice is removed from the deck and formwork. Calcium chloride or other de-icing salts shall not be used to de-ice deck or formwork.

ii.

Deck and formwork shall be maintained at a temperature that will not allow the concrete temperature to drop below 50°F for a min. of 3 days after concrete placement or the time it takes to reach 40% of the compressive strength.

iii.

After slab finishing is completed, immediately install insulating blankets over the entire slab for a min. of 3 days or the time it takes to reach 40% of the compressive strength.

iv.

Winter mix concrete is to be reviewed with the general contractor, engineer of record, and iSPAN.

JOIST HOLE LOCATIONS - COMPOSITE TOTAL JOIST

LIST OF ABBREVIATIONS		LIST OF ABBREVIATIONS	
ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
A	ANCHOR BOLT	KN/m	KILONEWTON PER METER
B	BASE (BEARING) PLATE	KN/m²	KILONEWTON PER SQUARE METER
BF	BOTTOM FACE	KPa	KILOPASCAL
BBO	BEAM BY OTHERS	Ksi	1000 Psi
BLD	BUILDING	lbs	POUNDS
C	CENTER TO CENTER	LL	LIVE LOAD
CA OR PA	COLUMN POST ABOVE	M	METRE
CANT	CANTILEVER	MAX	MAXIMUM
CBO	COLUMN BY OTHERS	MC	MOMENT CONNECTION
CFS	COLD FORMED STEEL	MEZZ	MEZZANINE
CL	CENTER LINE	MIN	MINIMUM
COL	COLUMN	MISC	MISCELLANEOUS
CONC	CONCRETE	MPa	MEGAPASCAL
CONT	CONTINUOUS	N	NEWTON
DM	DIMENSION	N.F.	NEAR FACE
DJ	DOUBLE JOIST	NBI	NOT BY iSPAN
DL	DEAD LOAD	No	NUMBER
DO	DITTO	NTS	NOT TO SCALE
DWG(S)	DRAWING(S)	OSB	ORIENTED STRAND BOARD
E.E.	EACH END	Pa	PASCAL
E.F.	EACH FACE	PL	PLATE
EA	EACH	Psi	POUNDS PER SQUARE INCH
EL	ELEVATION	REF	REFERENCE
EQ	EQUAL	REQ'D	REQUIRED
EXIST	EXISTING	REV	REVISION, REVISED
EXT	EXTERNAL	S.I.	SHOP INSTALLED
F.F.	FAR FACE	SL	SNOW LOAD
F.F.E	FINISH FLOOR ELEVATION	SPEC'S	SPECIFICATIONS
FIN	FINISHED	SQ	SQUARE
FTG	FOOTING	STD	STANDARD
G	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	T.F.	TOP FACE
GT	GIRDER TRUSS	T.O.	TOP OF
INT	INTERIOR	TBC	TO BE COORDINATED
K	KILOGRAM	TJ	TIE JOIST
Kip	1000 LBS	TYP	TYPICAL
KN	KILONEWTION	UN, UNO	UNLESS NOTED OTHERWISE
KN-m	KILONEWTION METER	UIS	UNDERSIDE
		W.C.	CENTERED IN WALL
		WL	WIND LOAD
		Ø	DIAMETER

HOLE SIZING/PLACEMENT

HOLE SIZING						
JOIST DEPTH	A		B		C DIAMETER	
	WIDTH	HEIGHT	WIDTH	HEIGHT		
8" [203mm]	2-1/4" [57mm]	2" [51mm]	3-1/4" [83mm]	1-3/8" [35mm]	2" [51mm]	
9-1/2" - 10" [241mm-254mm]	4" [102mm]	3-1/2" [89mm]	6" [152mm]	2-1/4" [57mm]	3-1/2" [89mm]	
11-7/8" - 12" [302mm-305mm]	6-5/8" [168mm]	6" [152mm]	8-7/8" [221mm]	4" [102mm]	6" [152mm]	
14" [356mm]	8-1/4" [210mm]	8" [203mm]	12-3/4" [324mm]	5-5/8" [143mm]	8" [203mm]	
16" [406mm]	9" [229mm]	10" [254mm]	14-5/8" [371mm]	6-7/8" [175mm]	10" [254mm]	

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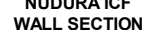
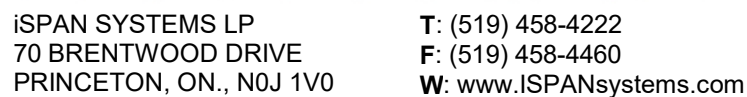
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CLIENT NAME

PROJECT NAME

541 BLOOMFIELD RIDGE S RD, ESN 474, NEW
SHEET NAME BRUNSWICK

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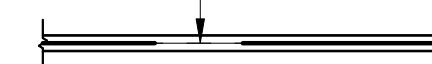
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DATE: 2022/04/08	S 200

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SEPARATION IN THICKENED
LINE REPRESENTS HOLE LOCATION



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ELLIS HENRICKS

HENRICKS HOME

SHEET NAME
1ST FLOOR JOIST HOLE
LAYOUT PLAN

PROJECT NO.:	DRAWING NO.
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DATE:

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BRUNSWICK

PLAN

PROJECT NO.:	DRAWING NO.
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DATE: 2022/04/08

3/8" = 1'-0"	
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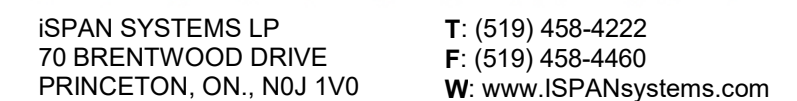
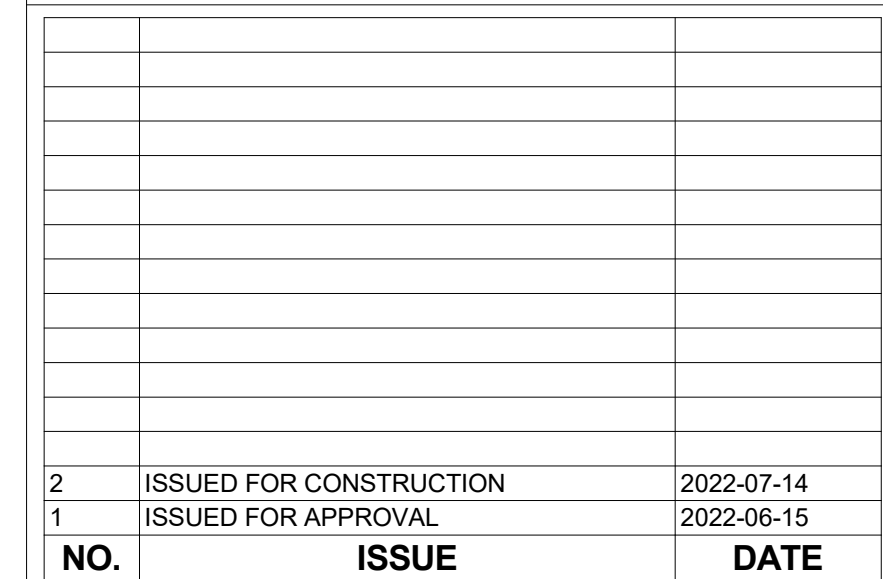
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PROJECT NAME
HENRICKS HOME
541 BLOOMFIELD RIDGE S RD, ESN 474, NEW
BRUNSWICK
SHEET NAME
2ND FLOOR FRAMING
PLAN

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SEPARATION IN THICKENED
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CLIENT NAME	ELLIS HENRICKS
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SHEET NAME
**2ND FLOOR JOIST HOLE
LAYOUT PLAN**

PROJECT NO.: 20221736	DRAWING NO.
DATE: 2022/04/08	S.201.1
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CLIENT NAME

ELLIS HENDRICKS

ELLIS HENRICKS

PROJECT NAME _____

PROJECT NAME

HENRICKS HOME

544 BLOOMFIELD RIDGE 2 RD, EGN 474 NEW

541 BLOOMFIELD RIDGE S RD, ESN 474, NEW
BRUNSWICK

SHEET NAME BRUNSWICK

2ND EL OOR BUNDLE

2ND LOOK BUNDLE

PLAN

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PROJECT NO.: DRAWING NO.

20221736

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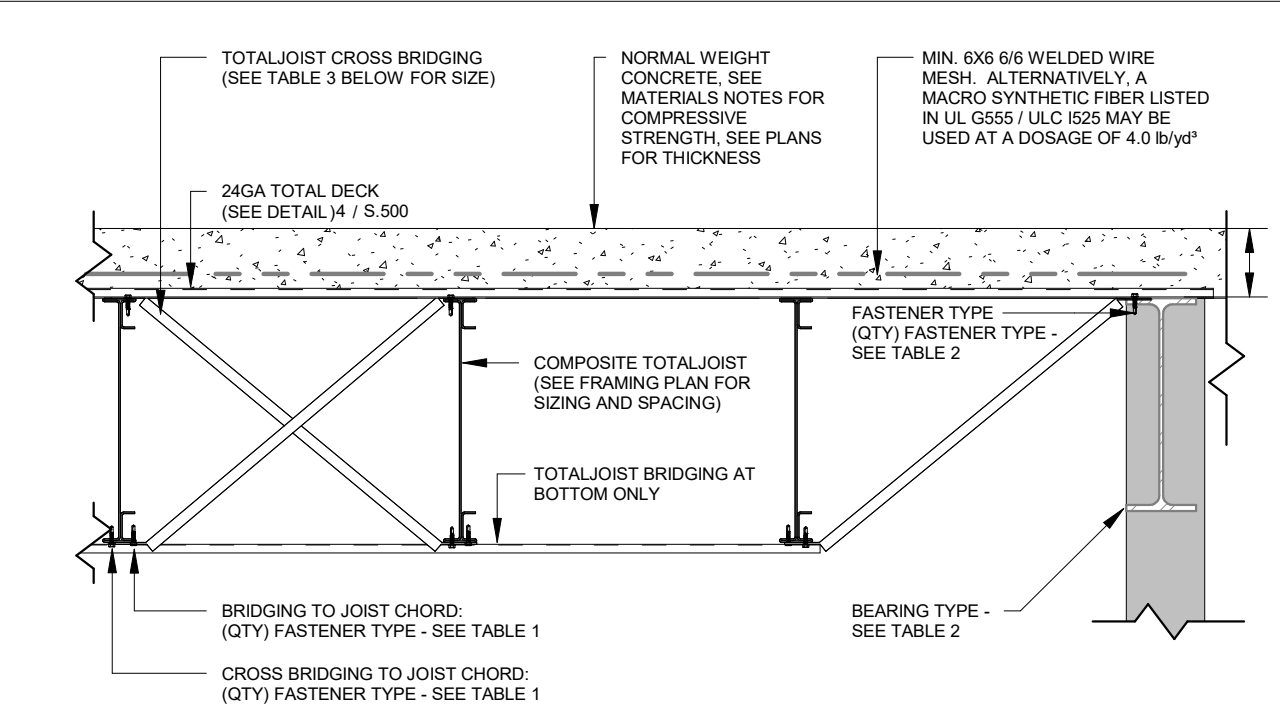
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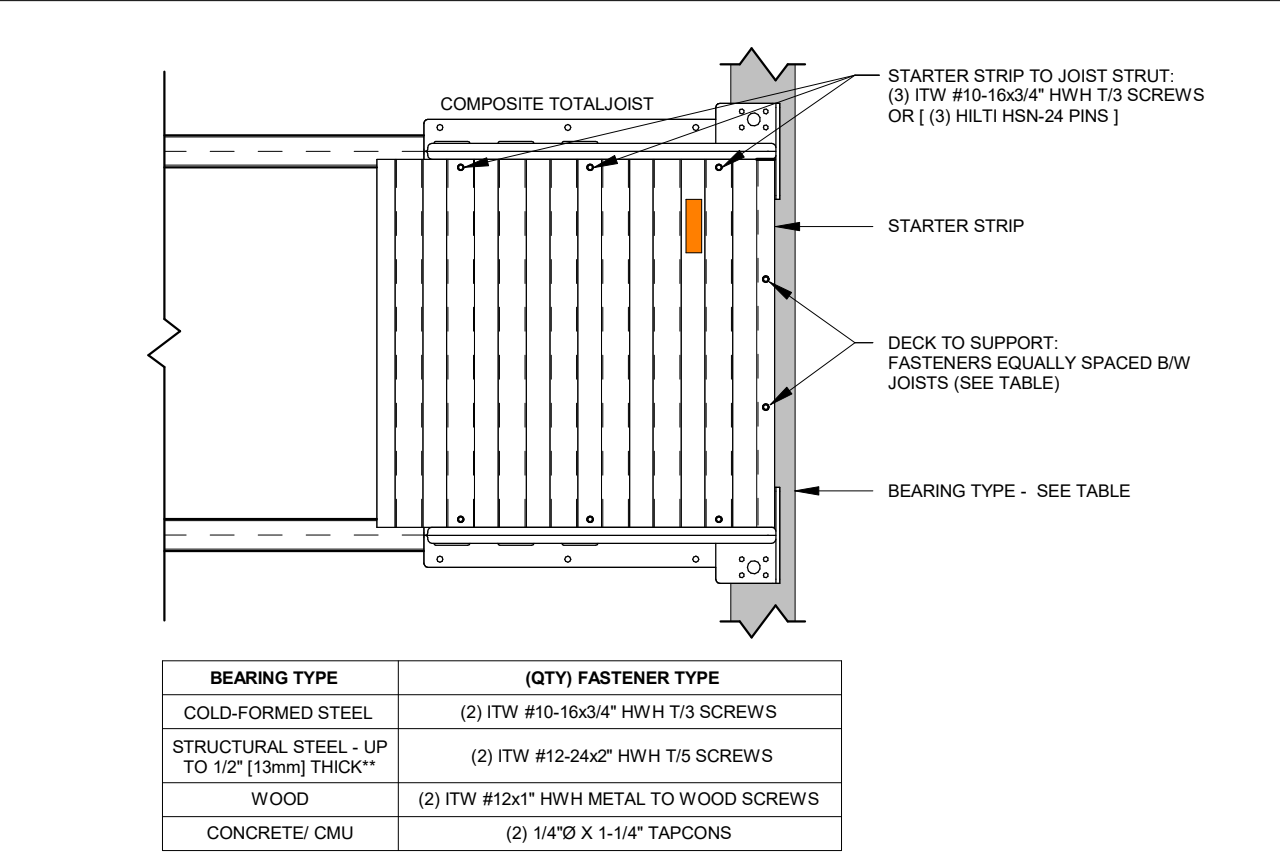


BRIDGING FASTENERS TO JOIST - TABLE 1	
APPROVED FASTENERS	
(QTY) BRIDGING TO JOIST	(QTY) CROSS BRIDGING TO JOIST
(1) ITW #12-14x1" HWH T/3 SCREW OR (2) HILTI X-EGN -1/2" PINS	(1) ITW #12-14x1" HWH T/3 SCREW OR (2) HILTI X-EGN -1/2" PINS

BRIDGING FASTENERS TO BEARING TYPE - TABLE 2		
BEARING TYPE	(QTY) FASTENER TYPE	(QTY) APPROVED PINS
COLD-FORMED STEEL	(1) ITW #12-14x1" HWH T/3 SCREWS	(2) HILTI X-EGN -1/2" PINS
STRUCTURAL STEEL - UP TO 1/2" [13mm] THICK	(1) ITW #12-24x1.5" HWH T/5 SCREWS	(2) HILTI X-EGN -1/2" PINS
WOOD	(1) ITW #12x1" HWH METAL TO WOOD SCREWS	N/A
CONCRETE/ CMU	(1) 1/4"Ø X 1-3/4" TAPCONS	(2) HILTI X-GN -3/4" PINS

CROSS BRIDGING TYPES - TABLE 3		
JOIST SPACING	TOTALJOIST DEPTH	TOTALJOIST CROSS BRIDGING
12"	8", 10", 12"	BR-12-XS
	14", 16", 18"	BR-12-XL
16"	8", 10", 12"	BR-16-XS
	14", 16", 18"	BR-16-XL
24"	8", 10", 12"	BR-24-XS
	14", 16", 18"	BR-24-XL
30"	8", 10", 12"	BR-30-XS
	14", 16", 18"	BR-30-XL
36"	8", 10", 12"	BR-36-XS
	14", 16", 18"	BR-36-XL
42"	8", 10", 12"	BR-42-XS
	14", 16", 18"	BR-42-XL
48"	8", 10", 12"	BR-48-XS
	14", 16", 18"	BR-48-XL

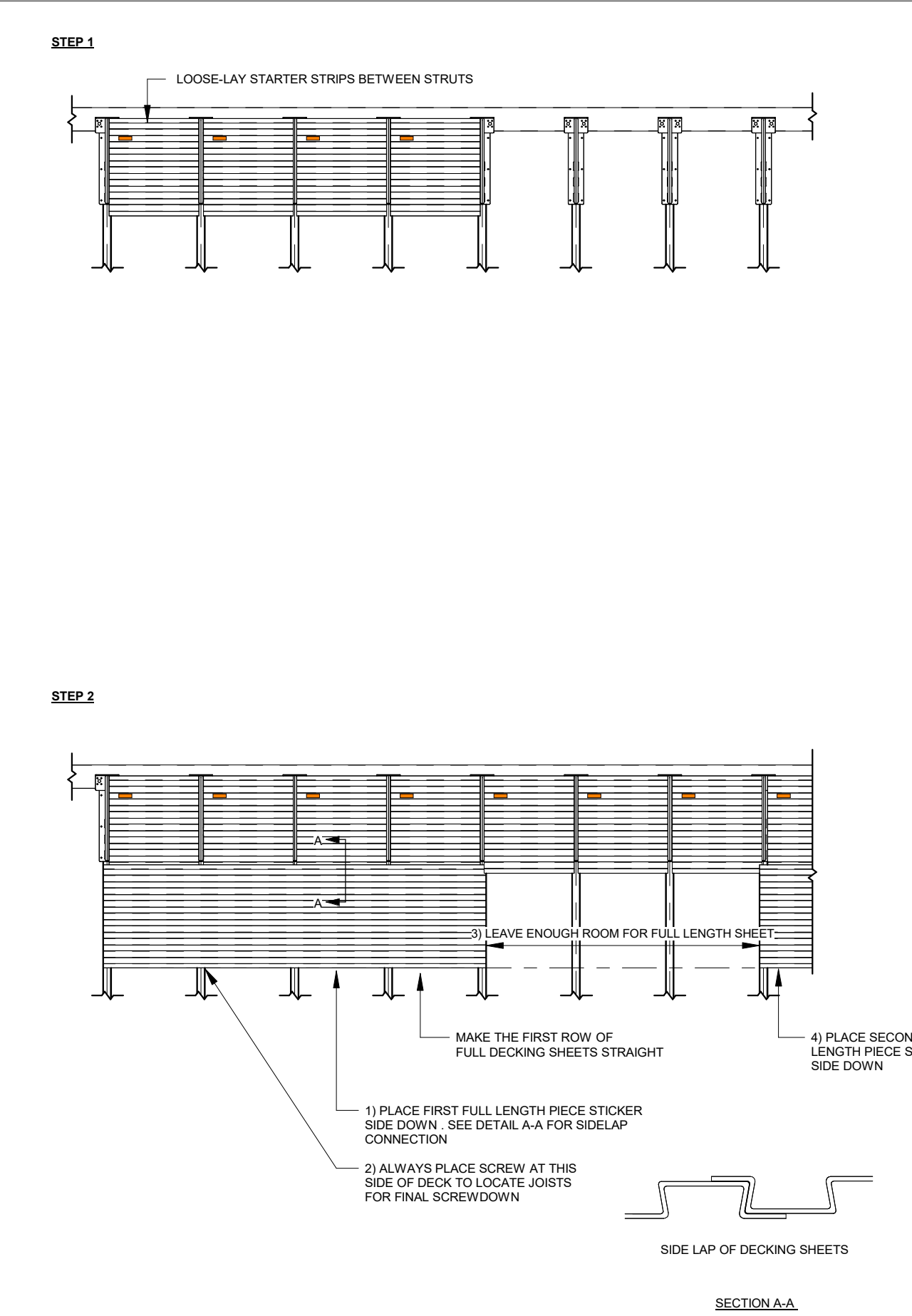
1 TYPICAL FLOOR CONSTRUCTION & BRIDGING FASTENING



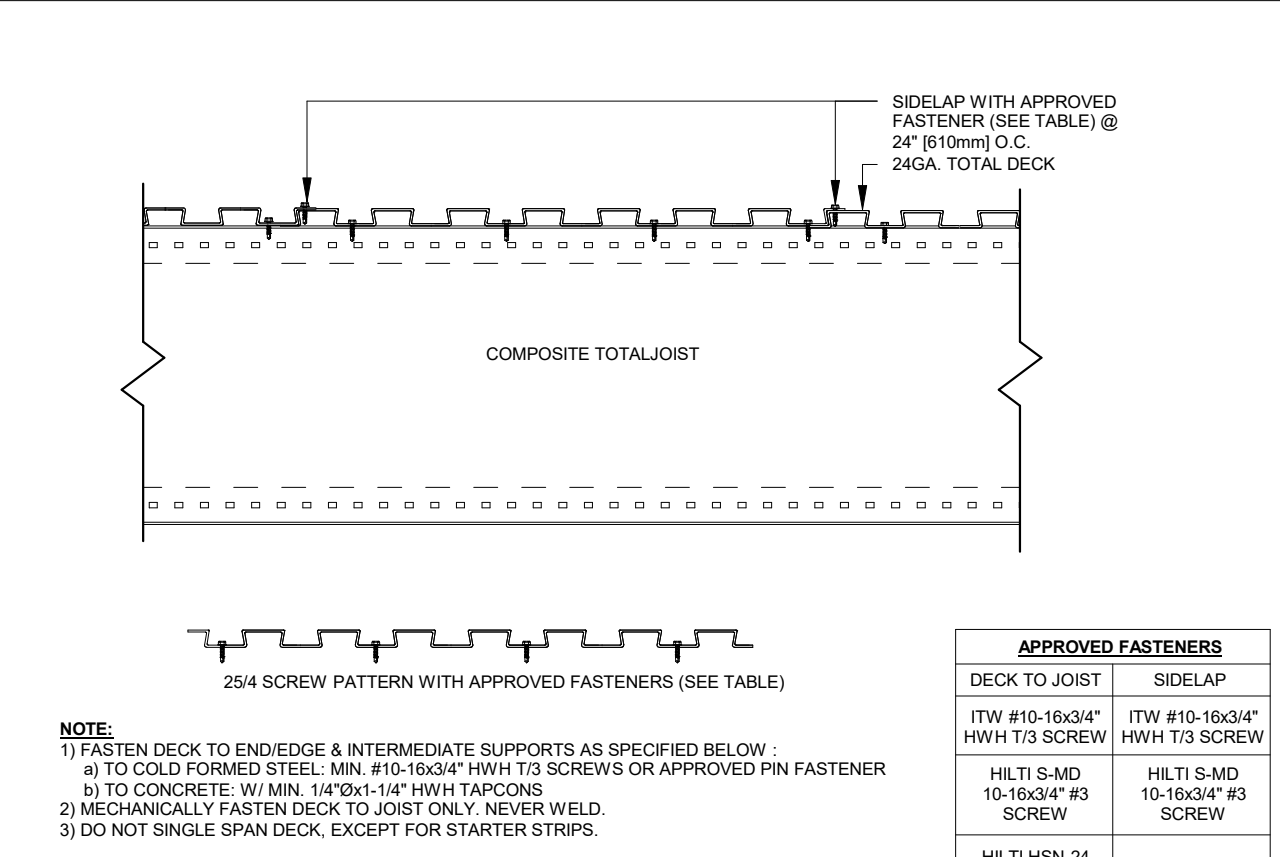
3 TYPICAL STARTER STRIP FASTENING

BEARING TYPE	PERPENDICULAR		PARALLEL	
	FASTENER TYPE	APPROVED PINS	FASTENER TYPE	APPROVED PINS
COLD-FORMED STEEL	ITW #10-16x3/4" HWH T/3 SCREWS @ 7" [178mm] O.C.	N/A	ITW #10-16x3/4" HWH T/3 SCREWS @ 12" [305mm] O.C.	N/A
STRUCTURAL STEEL - UP TO 1/2" [13mm] THICK	ITW #12-24x2" HWH T/5 SCREWS @ 7" [178mm] O.C.	HILTI X-EGN -1/2" PINS @ 7" [178mm] O.C.	ITW #12-24x2" HWH T/5 SCREWS @ 12" [305mm] O.C.	HILTI X-EGN -1/2" PINS @ 12" [305mm] O.C.
WOOD	ITW #12x1" HWH METAL TO WOOD SCREWS @ 7" [178mm] O.C.	N/A	ITW #12x1" HWH METAL TO WOOD SCREWS @ 12" [305mm] O.C.	N/A
CONCRETE/ CMU	1/4"Ø X 1-1/4" TAPCONS @ 7" [178mm] O.C.	HILTI X-GN OR X-C -3/4" PINS @ 7" [178mm] O.C.	1/4"Ø X 1-1/4" TAPCONS @ 12" [305mm] O.C.	HILTI X-GN OR X-C -3/4" PINS @ 12" [305mm] O.C.

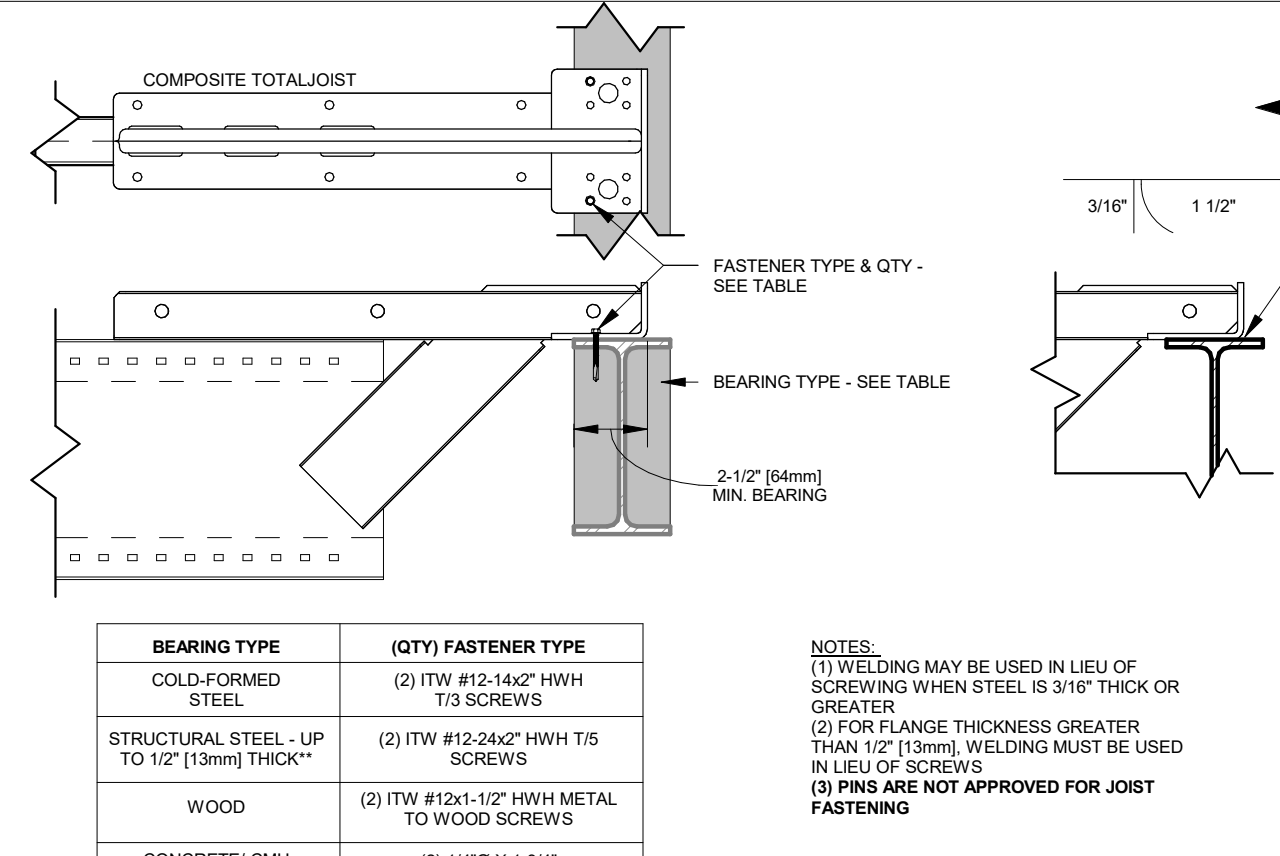
7 TOTAL DECK FASTENING



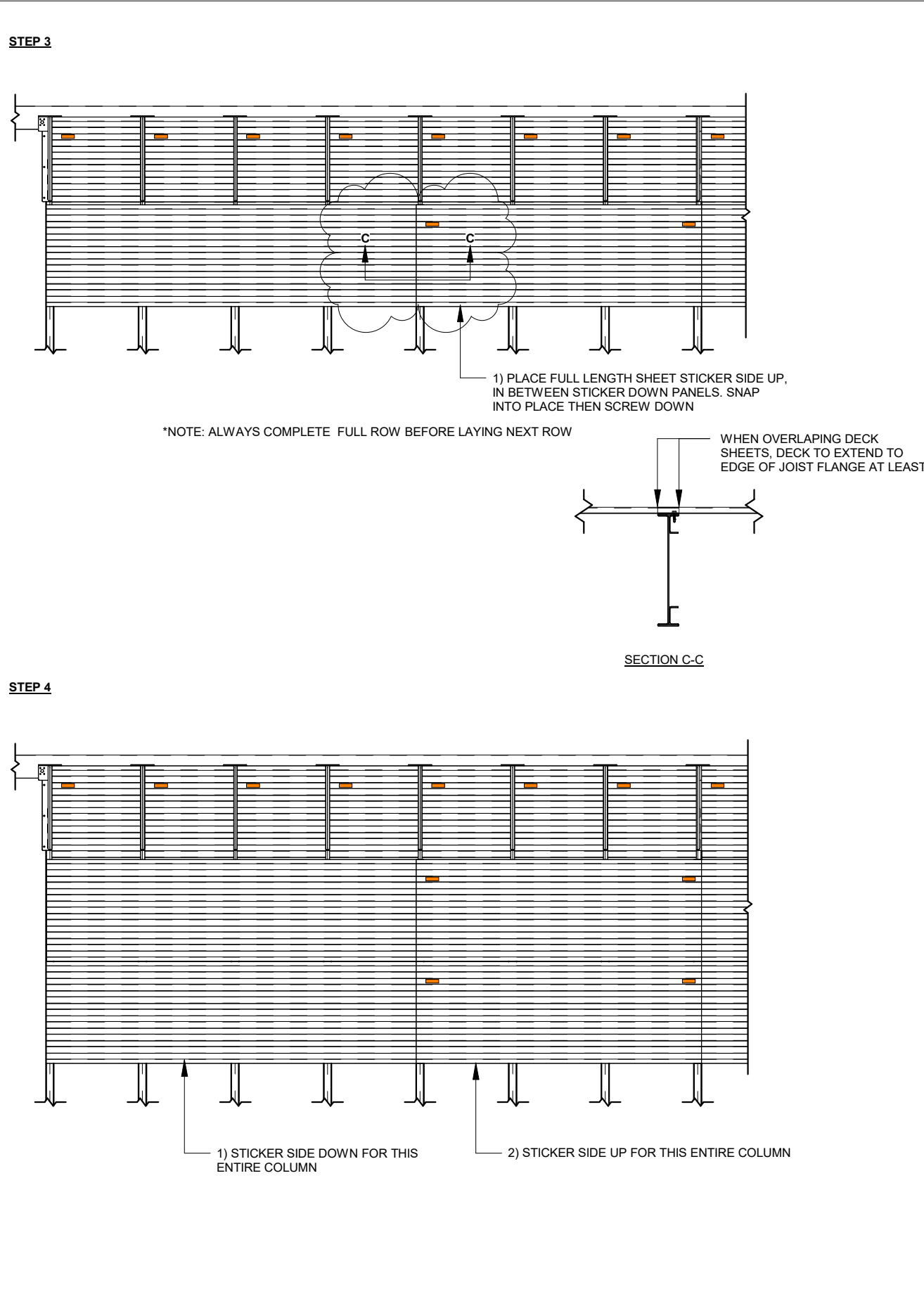
2 TOTAL DECK INSTALLATION



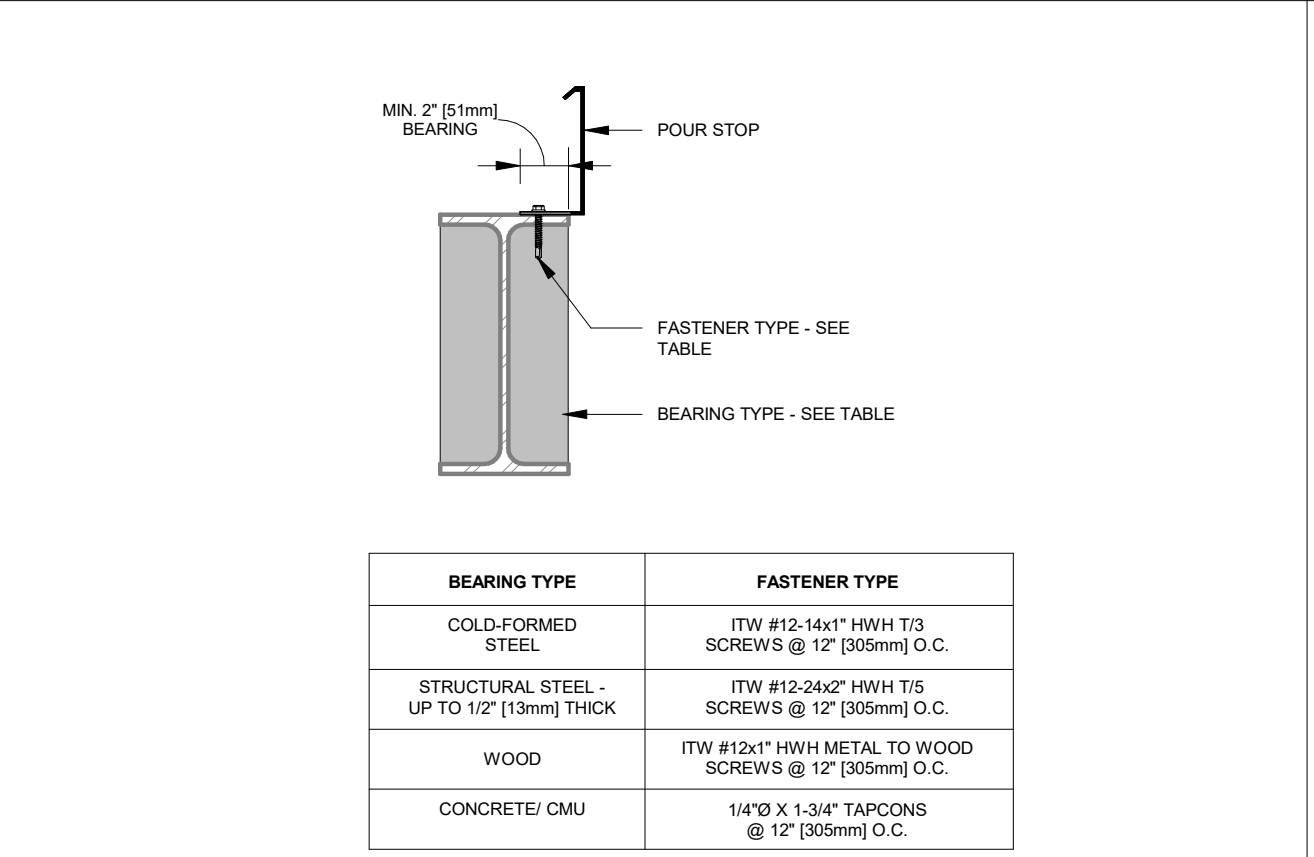
4 TOTAL DECK FASTENING PATTERN



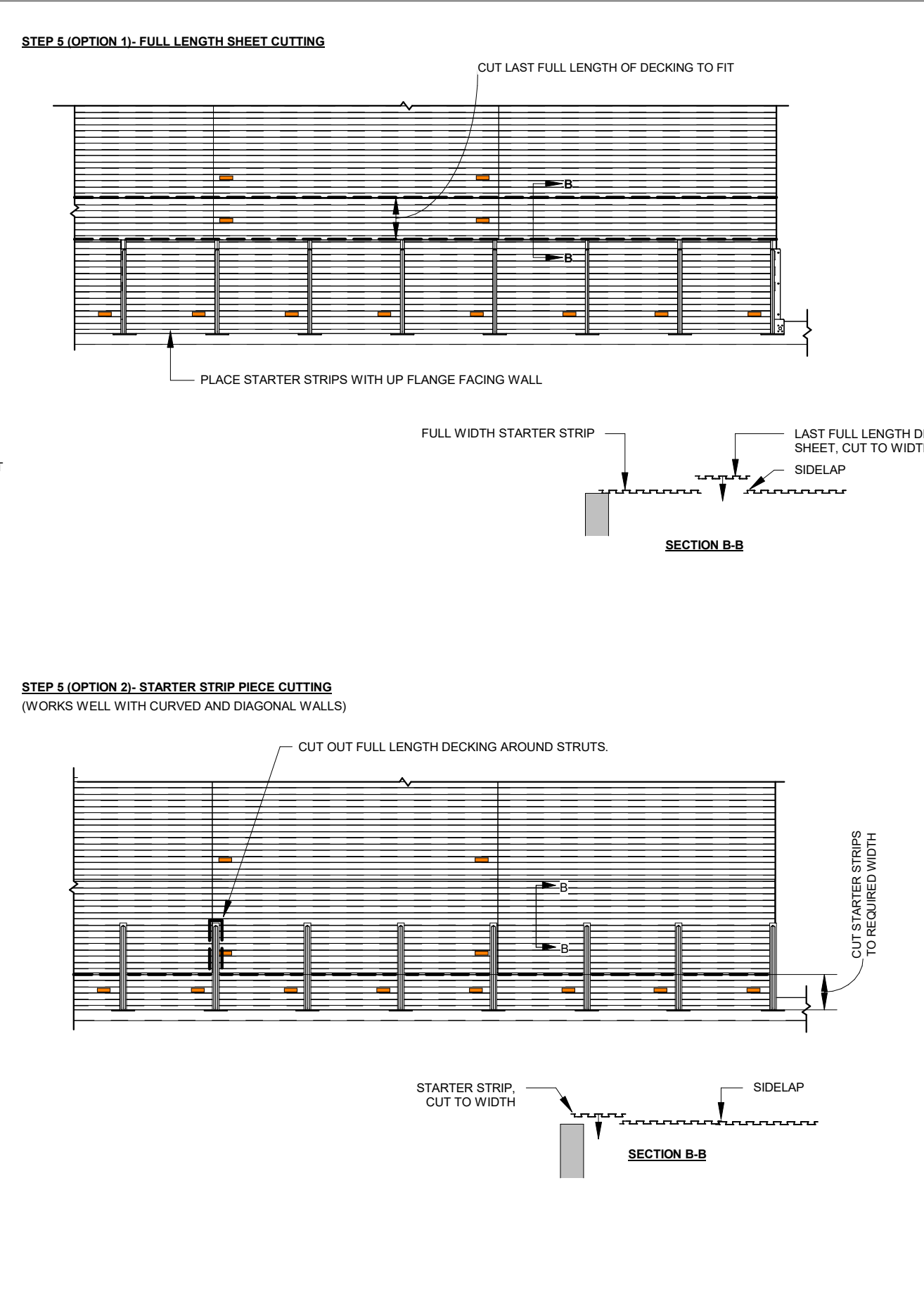
8 COMPOSITE TOTALJOIST FASTENING



5 TYPICAL POUR STOP FASTENING



5 TYPICAL POUR STOP FASTENING



5 TYPICAL POUR STOP FASTENING

NO.	ISSUE	DATE
2	ISSUED FOR CONSTRUCTION	2022-07-14
1	ISSUED FOR APPROVAL	2022-06-15

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CLIENT NAME
ELLIS HENRICKS

PROJECT NAME
HENRICKS HOME
541 BLOOMFIELD RIDGE S RD, ESN 474, NEW BRUNSWICK

SHEET NAME
COMPOSITE FASTENING DETAILS

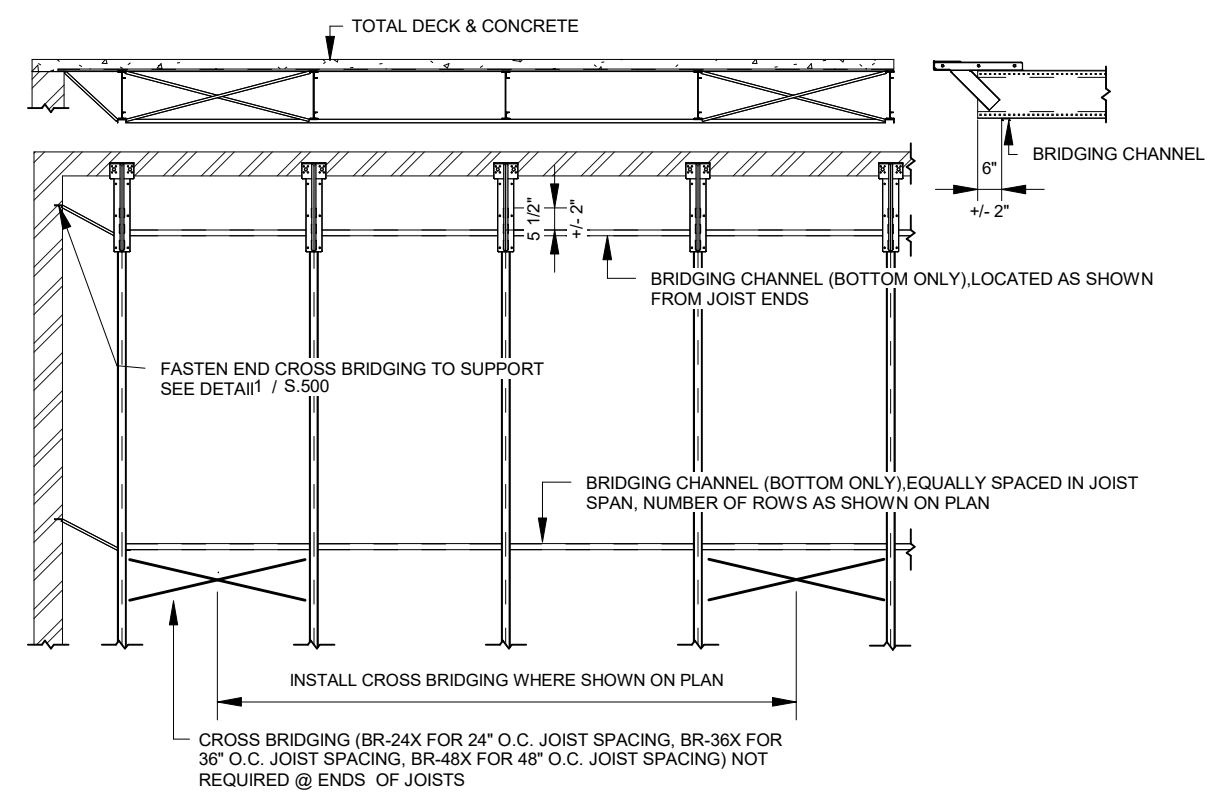
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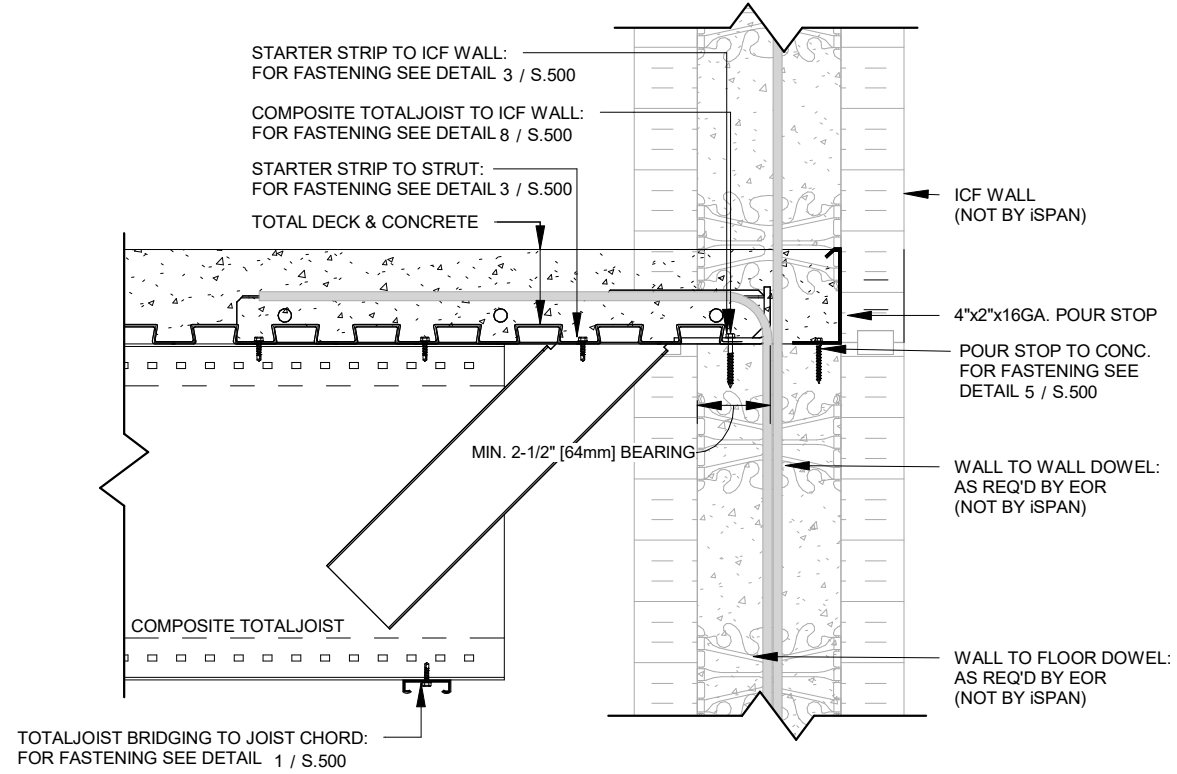
DATE: **2022/04/08**

SCALE: **As indicated**

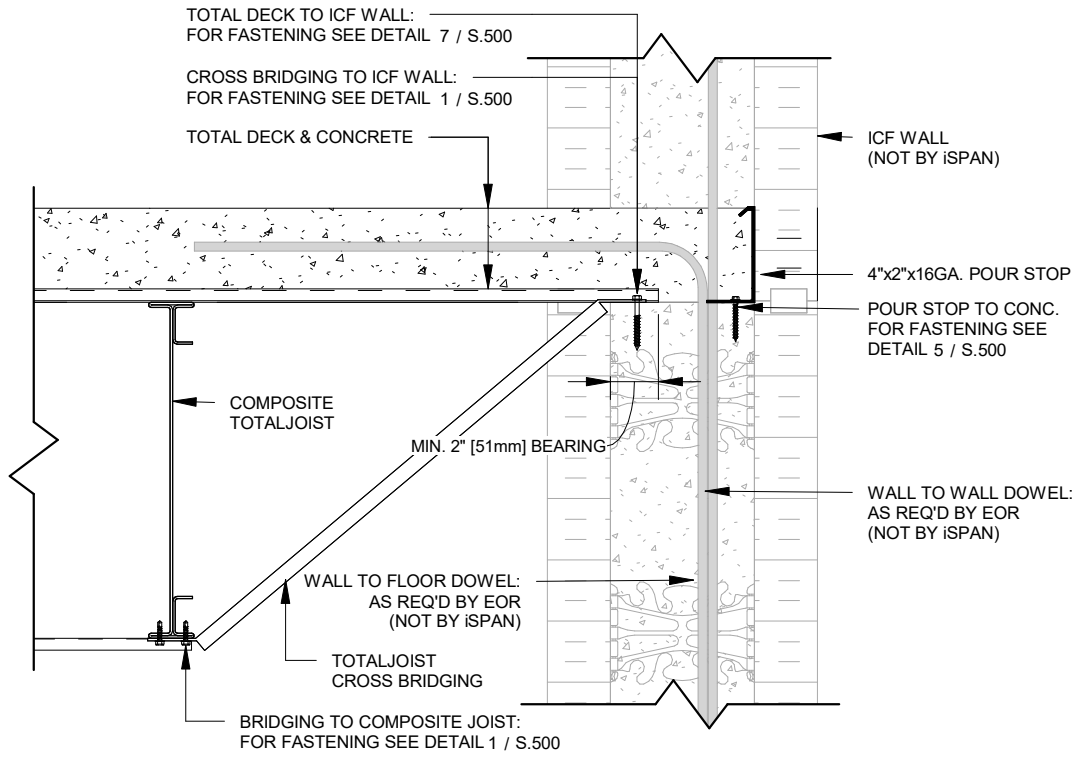
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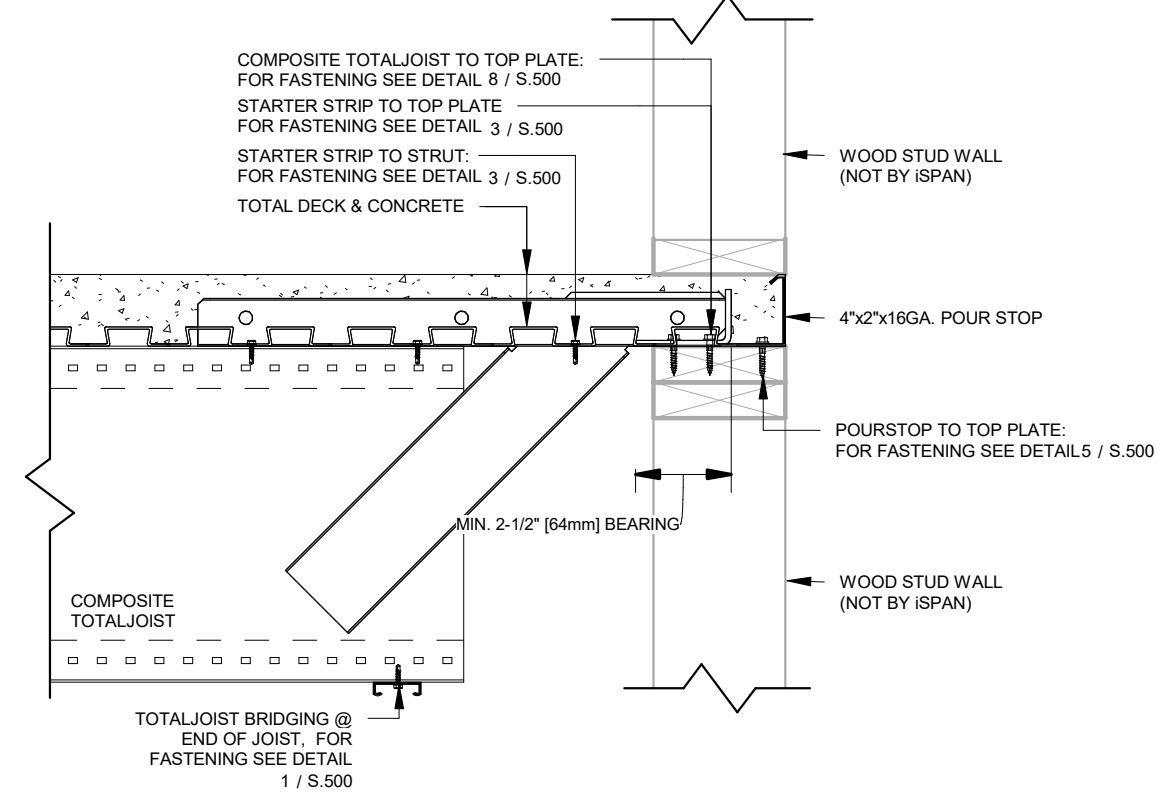
1 COMPOSITE TOTAL JOIST BLOCKING & BRIDGING LAYOUT
1/4" = 1'-0"



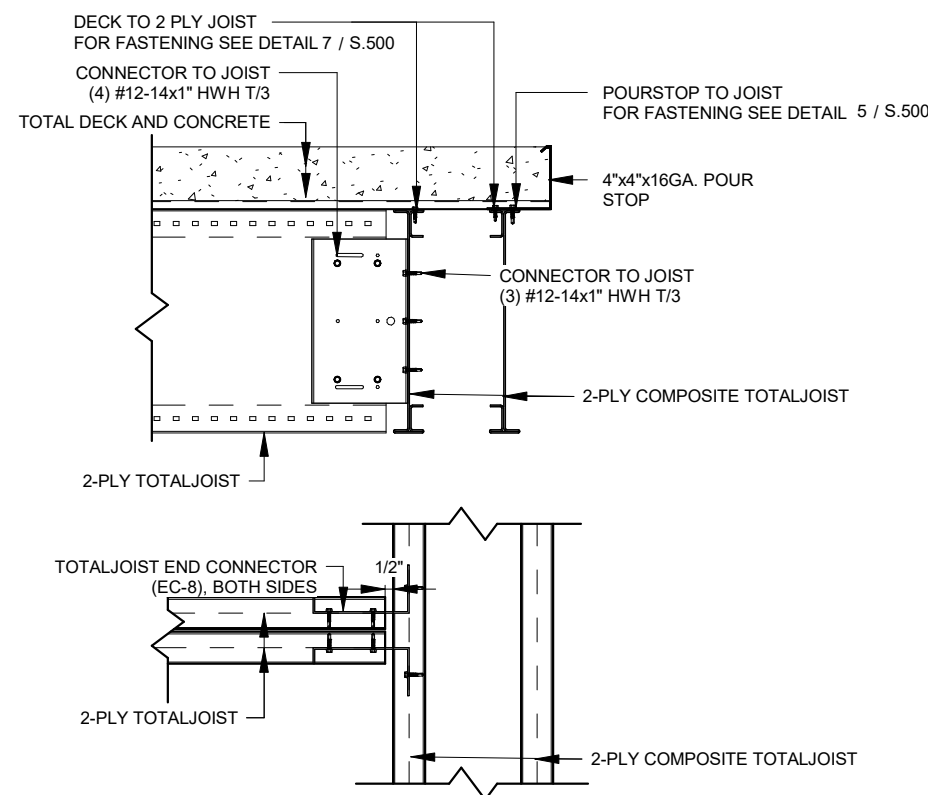
2 TOTALJOIST @ ICF WALL -
PERPENDICULAR
1 1/2" = 1'-0"



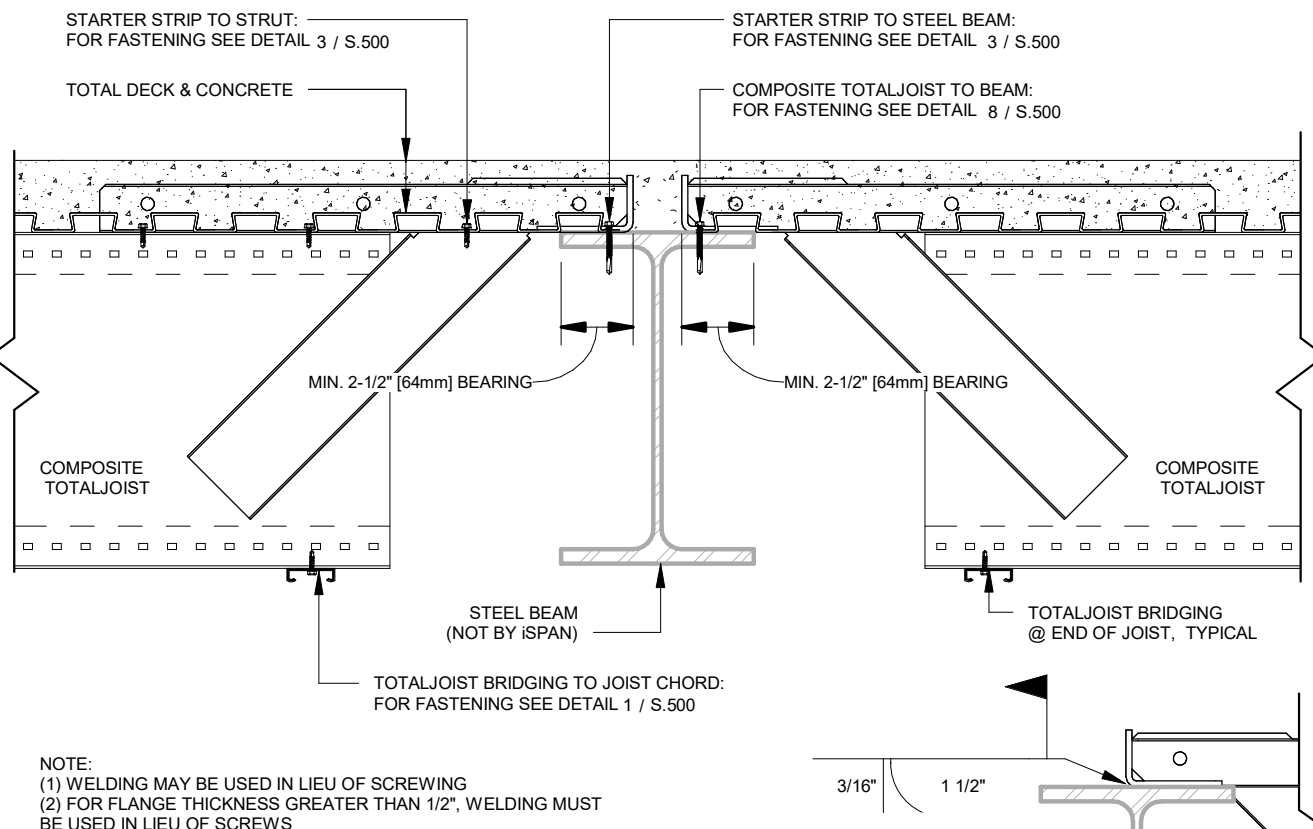
③ TOTAL JOIST @ ICF WALL - PARALLEL
1 1/2" = 1'-0"



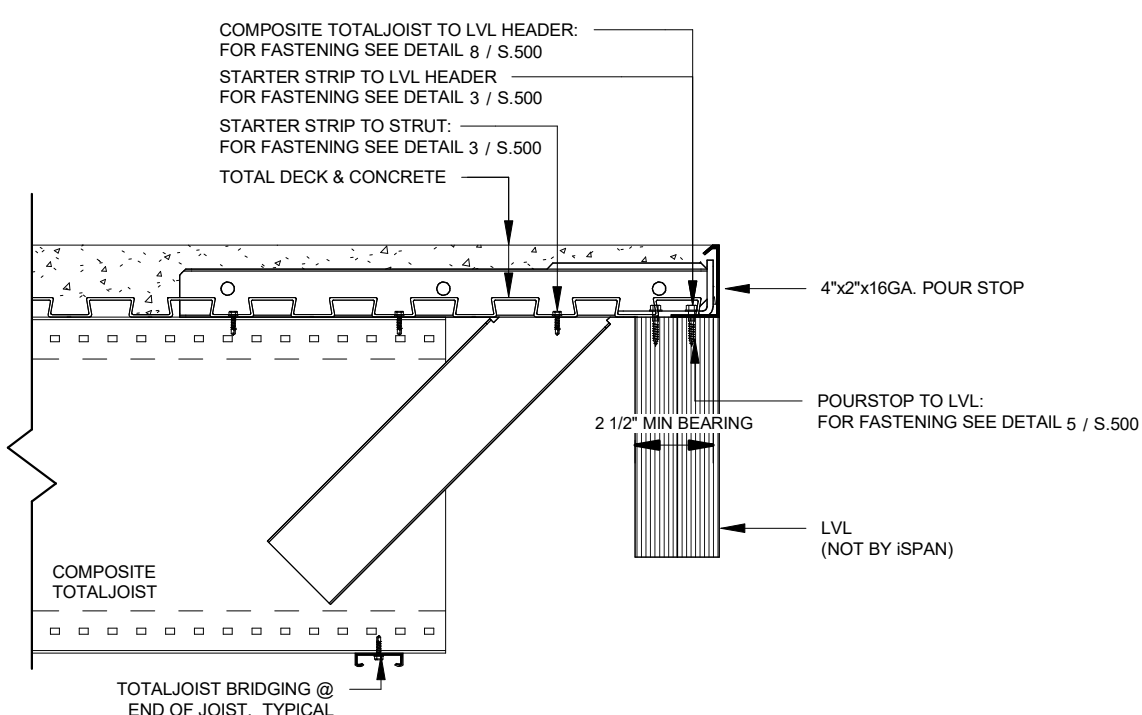
4 TOTAL JOIST @ WOOD WALL -
PERPENDICULAR
1 1/2" = 1'-0"



5 2-PLY TOTALJOIST TO 2-PLY TOTALJOIST
1" = 1'-0"



6 TOTALJOIST @ STEEL BEAM, BACK TO BACK
1 1/2" = 1'-0"



7 TOTAL JOIST @ WOOD WALL -
PERPENDICULAR
 $1\ 1/2" = 1'-0"$

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CLIENT NAME

ELLIS HENRICKS

PROJECT NAME

HENRICKS HOME

541 BLOOMFIELD RIDGE S RD, ESN 474, NEW
BRUNSWICK

SHEET NAME

FLOOR DETAILS

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