

# BAR U RANCH N.H.S.C.

## WORK HORSE BARN REHABILITATION

### LONGVIEW, ALBERTA

Architectural Rehabilitation Drawings: ISSUED FOR TENDER



VIEW OF NORTH EAST CORNER OF THE WORK HORSE BARN



VIEW OF NORTH WEST CORNER OF THE WORK HORSE BARN



VIEW OF SOUTH WEST CORNER OF THE WORK HORSE BARN

PRIME CONSULTANT:

| x | architecture inc.

CONSULTANT TEAM:

- ARCHITECT

1x1 ARCHITECTURE INC.  
120 FORT STREET, SUITE 103  
WINNIPEG, MANITOBA, R3C 1C7  
TEL: (204) 318-2010
- CIVIL ENGINEER

MPE ENGINEERING LTD.  
SUITE 300, 714 5th AVE S.  
LETHBRIDGE, ALBERTA, T1J 0V1  
TEL: (403) 329-3442
- STRUCTURAL ENGINEER

HERITAGE CONSERVATION SERVICES  
PUBLIC SERVICES AND PROCUREMENT CANADA  
30 VICTORIA 5A-510  
GATINEAU, QUEBEC, K1A 0M5  
TEL: (819) 420-4931
- ELECTRICAL ENGINEER

MPE ENGINEERING LTD.  
SUITE 300, 714 5th AVE S.  
LETHBRIDGE, ALBERTA, T1J 0V1  
TEL: (403) 329-3442

REHABILITATION DRAWING LIST

NOTE: REFER TO "AS FOUND CONDITION DRAWINGS" FOR EXISTING CONDITIONS

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MECHANICAL PROPOSED PLAN



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Revision	Description	Date
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Client client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project Projet

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by Conçu par

K.KROEKER

Drawn by Dessiné par

K.KROEKER

Approved by Approuvé par

G.GROSS

PWGSC Project Manager Administrateur de Projets TPSGC

G.SPENCE

Drawing title Titre du dessin

CONSULTANT TEAM,  
LOCATION PLAN,  
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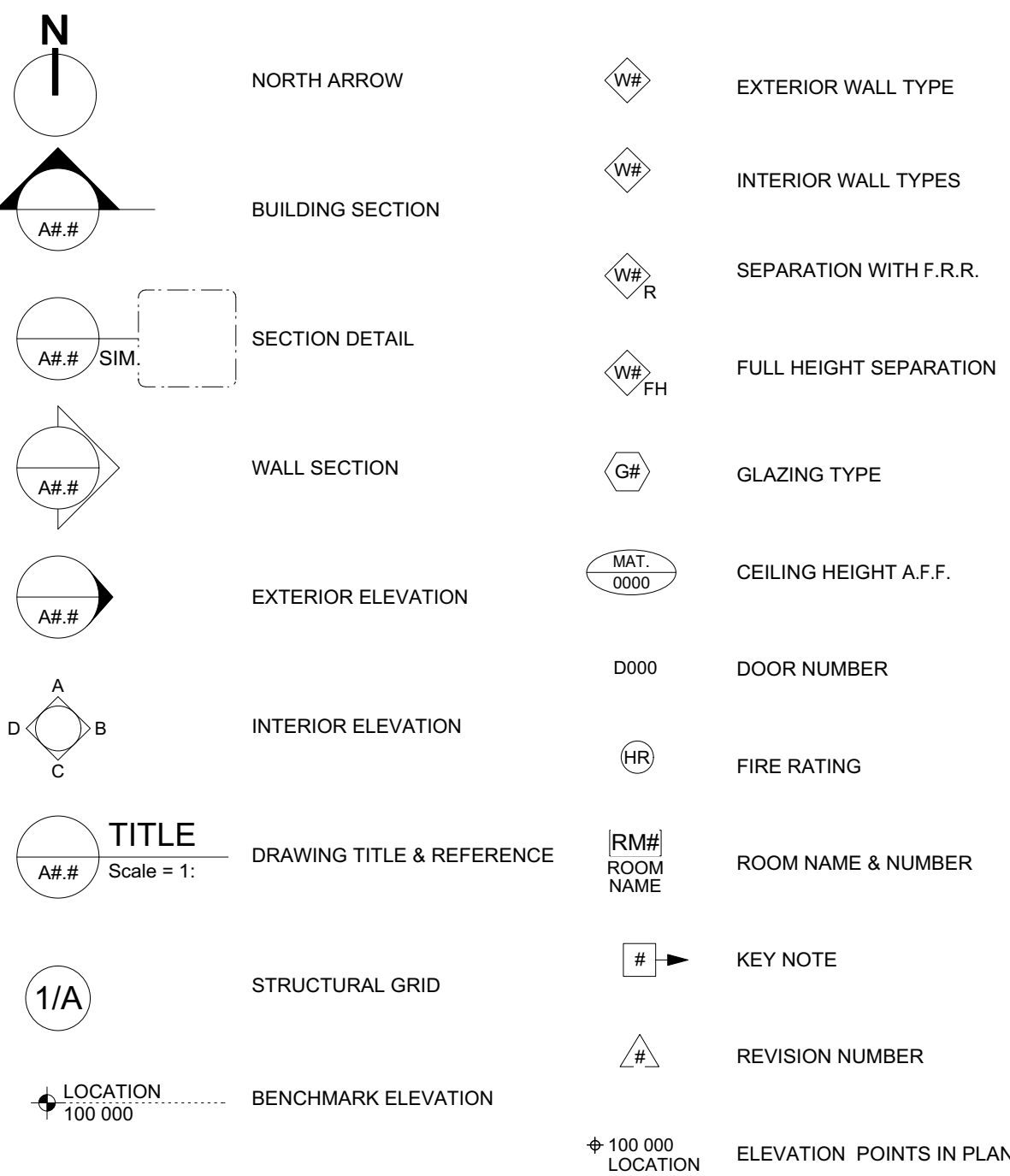
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## SYMBOLS



## ABBREVIATIONS

A/F	ABOVE FLOOR	LOC	LOCATION
ALUM	ALUMINUM	MAS	MASONRY
AND	ANDRIZED	MAX	MAXIMUM
BLOG	BUILDING	MECH	MECHANICAL
BEAM	BEAM	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BTM	BOTH SIDES	M.O.	MASONRY OPENING
B.S.	BETWEEN	MR	MIRROR
BTWN	BETWEEN	MTL	METAL
C.I.P.	CAST IN PLACE	N.I.C	NOT IN CONTRACT
CL	CENTER LINE	O.C	ON CENTER
C.P	CENTER POINT	O.D	OUTSIDE DIAMETER
C.L.F	CHAIN LINK FENCE	O.F	OUTSIDE FACE
COL	COLUMN	O.H	OVERHEAD
C.W	COMPLETE WITH	OPNG	OPENING
CONC	CONCRETE	O.W.S.J	OPEN WEB STEEL JOIST
C.B	CONCRETE BLOCK	PL	PLATE
CONTROL JOINT	CONTROL JOINT	PLAM	PLASTIC LAMINATE
D	DEEP	PLYW	PLYWOOD
DTL	DETAIL	PNL	PANEL
DN	DOWN	PREFIN	PREFINISHED
DWG, DRWG	DRAWING	PS	PRESSED STEEL
EA	EACH	PTD, PT	PAINTED, PAINT
ELEV	ELEVATION	R/C CONC	REINFORCED CONCRETE
ELEC	ELECTRICAL	R.D.	ROOF DRAIN
EPOX	EPOXY	REINF	REINFORCED
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	R.O.	ROUGH OPENING
EXP	EXPOSED	SHWR	SHOWER
EXT	EXTERIOR	SM	SIMILAR
FD	FLOOR DRAIN	SLP	SLOPE
F.H.C	FIRE HOSE CABINET	SPECT	SPECIFIED
FIN	FINISH	S.S	STAINLESS STEEL
FLR, FL	FLOOR	ST, STL	STEEL
GA	GAGE	STO, STOR	STORAGE
GALV	GALVANIZED	STRUC	STRUCTURAL
GLUM	GALVALUME	SURF MTD	SURFACE MOUNTED
G.C	GENERAL CONTRACTOR	SUSP	SUSPENDED
G.L	GRID LINE	TH	THICK / THICKNESS
GWB	GYPSON WALL BOARD	T.O	TOP OF
H.W	HAZARDOUS WASTE	T.O.C	TOP OF CONCRETE
H	HIGH	TYP	TYPICAL
H.D	HEAVY DUTY	U/F	UNDER FLOOR
HT	HEIGHT	U/G	UNDER GROUND
H.M	HOLLOW METAL	U/S	UNDER SIDE
HOR, HORIZ	HORIZONTAL	V/B	VAPOUR BARRIER
HR	HOUR	VEH	VEHICLE
HSS	HOLLOW STEEL SECTION	VERT	VERTICAL
HYDR	HYDRAULIC	VEST	VESTIBULE
ID	INSIDE DIAMETER	W	WIDE
IF	INSIDE FACE	WI	WITH
INT	INTERIOR	W.MEM	WATERPROOFED MEMBRANE
INSUL	INSULATION	W.T.	WEAVING TILE
L.W	LIGHT WEIGHT		
L	LONG		

## GENERAL DRAWING NOTES

- THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
- THE CONTRACTOR SHALL UNDERTAKE A PROGRAM OF PHOTOGRAPHIC DOCUMENTATION THAT WILL INCLUDE A DAILY RECORD OF PROGRESS AND DETAILED PHOTOGRAPHS AT EACH STAGE OF CONSTRUCTION.
- DEPARTMENTAL REPRESENTATIVES MUST BE INFORMED IN ADVANCE OF SITE VISITS. REFER TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
- THE DRAWINGS REPRESENT AN EXISTING BUILDING. BUILDING ALIGNMENT AND DIMENSIONS MAY VARY FROM THE DRAWINGS AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. SITE CONDITIONS WILL ALWAYS TAKE PRECEDENCE.
- UPON COMPLETION OF THE WORK, THE INTERIOR OF THE STRUCTURE IS TO BE AIR PRESSURE CLEANED AND VACUUMED TO REMOVE DUST, DIRT, AND ANIMAL DROPPINGS ETC. FROM RAFTERS, COLLAR TIES, TRUSS MEMBERS, BRACING, WALLS AND ALL INTERIOR SURFACES, FOLLOWING HEALTH AND SAFETY REQUIREMENTS.
- REFER TO 2001 HERITAGE RECORD UPDATE SET FOR ADDITIONAL DIMENSIONING. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
- THE DRAWINGS SHALL NOT BE SCALED. FOLLOW GIVEN DIMENSIONS ONLY.
- THE CONTRACTOR SHALL SATISFY THEMSELVES THAT ALL DIMENSIONS, ELEVATIONS, DATUMS, AND INFORMATION SHOWN ARE CORRECT. VERIFY ALL DIMENSIONS ON SITE.
- PRIOR TO SUBMITTING BID, ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
- VARIATIONS AND MODIFICATIONS TO WORK SHOWN WILL NOT BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR.
- ALL DIMENSIONS ARE METRIC UNLESS OTHERWISE NOTED.
- NO REPRODUCTION OF THE DRAWINGS MAY BE MADE WITHOUT WRITTEN CONSENT OF THE ARCHITECT AND ALL REPRODUCTION MUST BEAR THE NAME OF THE ARCHITECT.
- ANY DAMAGES CAUSED BY THE CONSTRUCTION PROCESS TO THE SURROUNDING SITE OR ADJACENT STRUCTURES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
- GENERAL CONTRACTOR SHALL NOTIFY THE CONTRACT ADMINISTRATOR OF ANY MECHANICAL AND ELECTRICAL APPARATUS APPEARANCE WHICH MAY VARY FROM THAT INDICATED IN THE CONTRACT DOCUMENTS.
- ALL ELEMENTS THAT ARE REQUIRED TO BE REMOVED AND REINSTATED FOR THE WORK TO BE COMPLETED ARE REQUIRED TO BE SYSTEMATICALLY REMOVED, CATALOGUED, AND LABELED AS REQUIRED TO ENSURE REINSTALLATION IN THE CORRECT LOCATIONS. REFER TO SPEC SECTION 02 42 13.01. GIVEN THAT THIS IS A CLASSIFIED HERITAGE BUILDING, APPROPRIATE PROTECTION MEASURES MUST BE INCORPORATED INTO THE WORK TO AVOID DAMAGING THE EXISTING CONSTRUCTION AND MATERIALS.
- ALL WINDOWS ARE TO BE REMOVED BY PARKS CANADA AGENCY PRIOR TO MOVING. OPENINGS ARE TO BE SECURELY BRACED AS PER APPROVED ENGINEERING DRAWINGS PROVIDED BY THOSE RESPONSIBLE FOR THE LIFTING AND MOVING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SOLID WOOD BLOCKING IN WALLS AS REQUIRED WHERE WALL MOUNTED ITEMS ARE SCHEDULED.

REAL PROPERTY SERVICES  
Western Region  
SERVICES IMMOBILIERS  
Région de l'ouest

## LOCATION PLAN NOTES:

- THE ENTIRE BAR U NATIONAL HISTORIC SITE IS DESIGNATED "CLASSIFIED". ALL SITE WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES AND IS SUBJECT TO ARCHAEOLOGICAL REVIEW PRIOR TO ANY WORK BEING DONE. REFER TO SPEC.
- PUBLIC ACCESS IS TO BE MAINTAINED ON ALL ROADWAYS THROUGHOUT THE SITE. REFER TO SPEC.



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PUBLIC SERVICES AND  
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Project

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

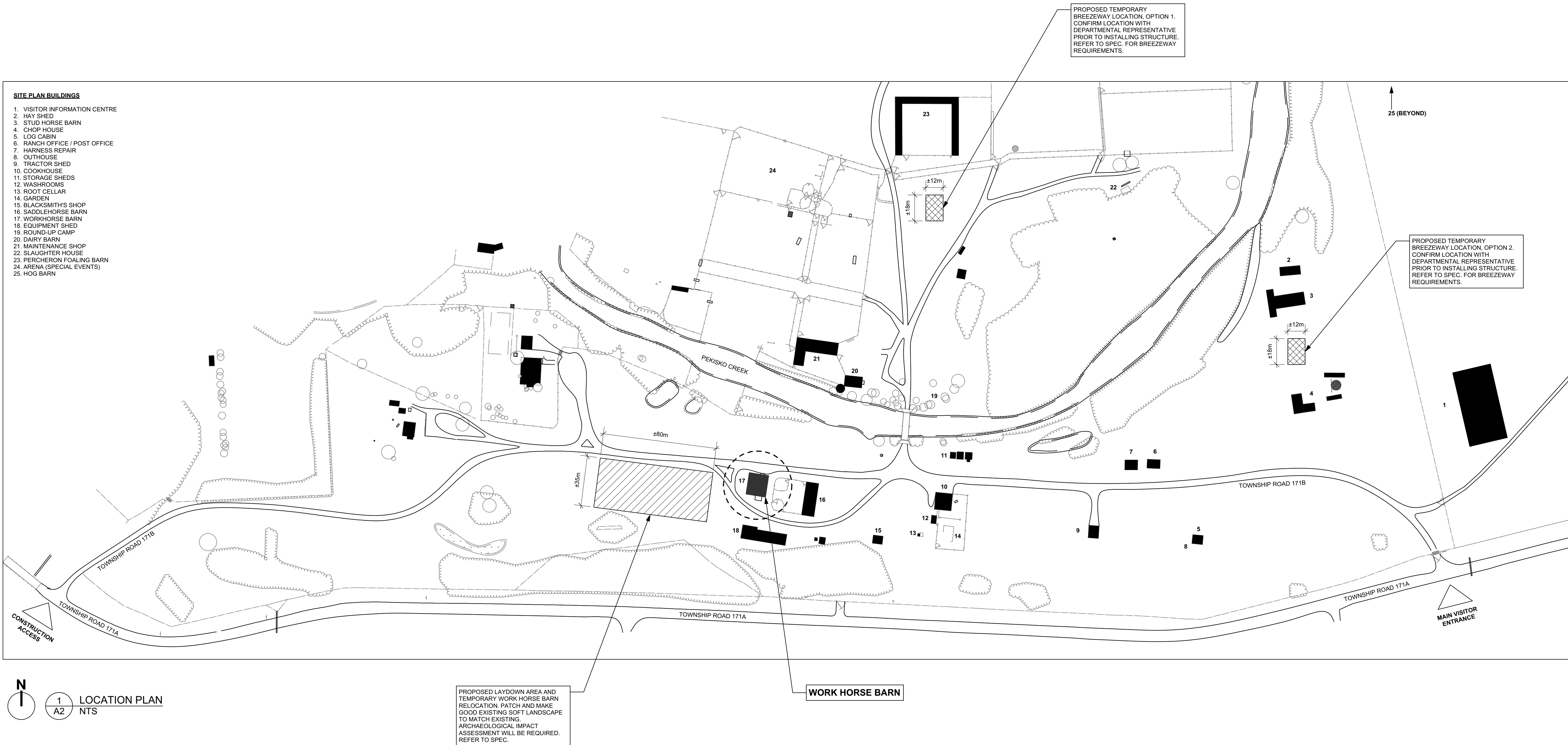
Designed by	Compu par
K.KROEGER	
Drawn by	Dessiné par
K.KROEGER	
Approved by	Approuvé par
G.GROSS	
PWGSC Project Manager	Administrateur de Projets TPSGC
G.SPENCE	
Drawing title	Titre du dessin

SYMBOLS, ABBREVIATIONS,  
AND GENERAL NOTES

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
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## SITE PLAN BUILDINGS

- VISITOR INFORMATION CENTRE
- HAY SHED
- STUD HORSE BARN
- CHOP HOUSE
- LOG CABIN
- RANCH OFFICE / POST OFFICE
- HARNESS REPAIR
- OUTHOUSE
- TRACTOR SHED
- COOKHOUSE
- STORAGE SHEDS
- WASHROOMS
- ROOT CELLAR
- GARDEN
- BLACKSMITHS SHOP
- SADDLEHORSE BARN
- WORKHORSE BARN
- EQUIPMENT SHED
- ROUND-UP CAMP
- DAIRY BARN
- MAINTENANCE SHOP
- SLAUGHTER HOUSE
- PERCHERON FOALING BARN
- ARENA (SPECIAL EVENTS)
- HOG BARN



PROPOSED LAYDOWN AREA AND  
TEMPORARY WORK HORSE BARN  
RELOCATION. PATCH AND MAKE  
GOOD EXISTING SOFT LANDSCAPE  
TO MATCH EXISTING.  
ARCHAEOLOGICAL IMPACT  
ASSESSMENT WILL BE REQUIRED.  
REFER TO SPEC.

WORK HORSE BARN

SITE / ROOF PLAN NOTES:

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2. REFER TO CIVIL FOR SITE GRADING.
3. PATCH AND MAKE GOOD AFFECTED SOFT LANDSCAPE TO MATCH EXISTING. REFER TO SPEC.
4. REFER TO CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SERVICE CONNECTION LOCATIONS.
5. DIMENSIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY.



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Project Project

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by Conçu par

K.KROECKER

Drawn by Dessiné par

K.KROECKER

Approved by Approuvé par

G.GROSS

PWGSC Project Manager Administrateur de Projets TPSGC

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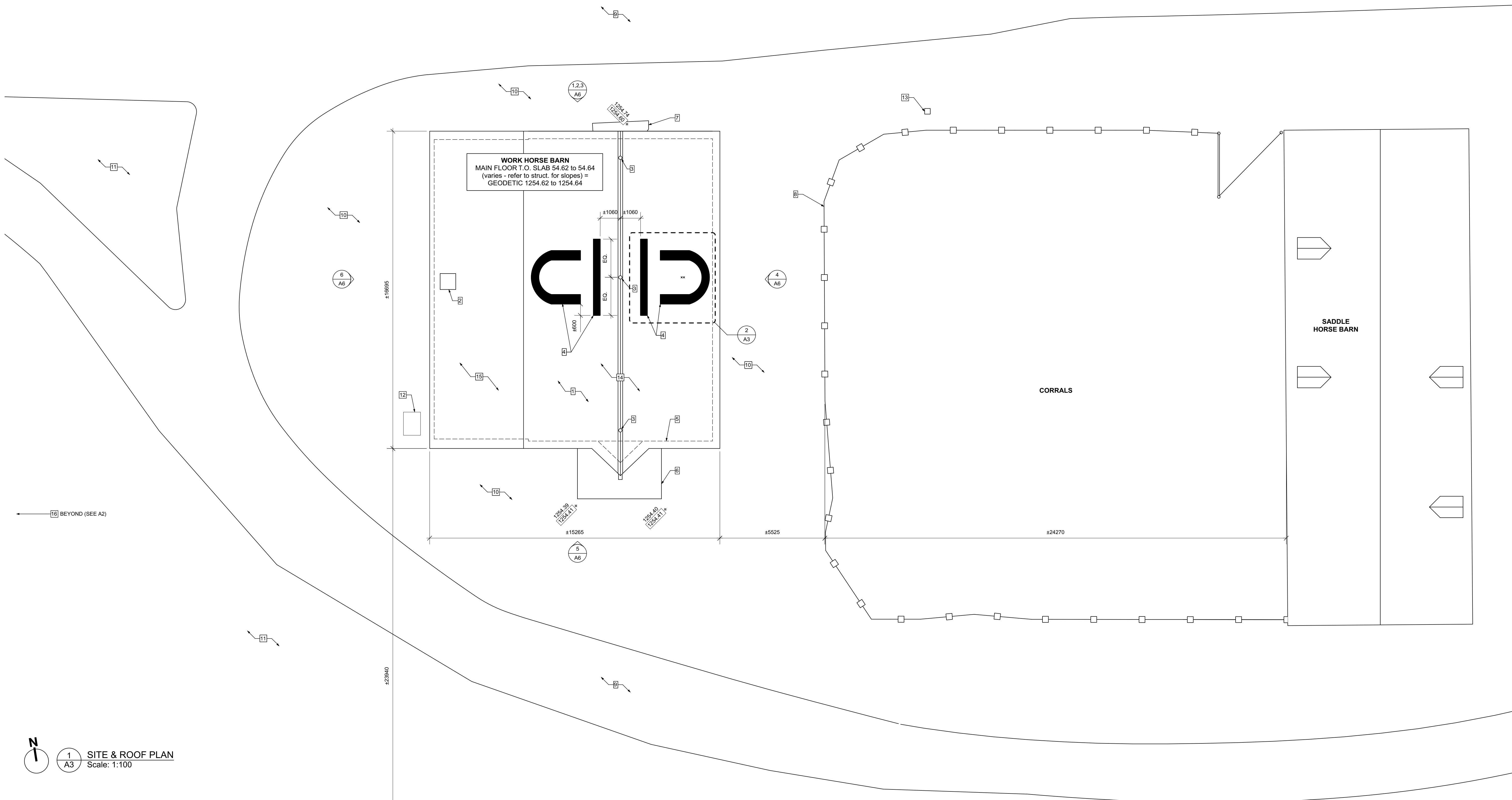
SITE / ROOF PLAN

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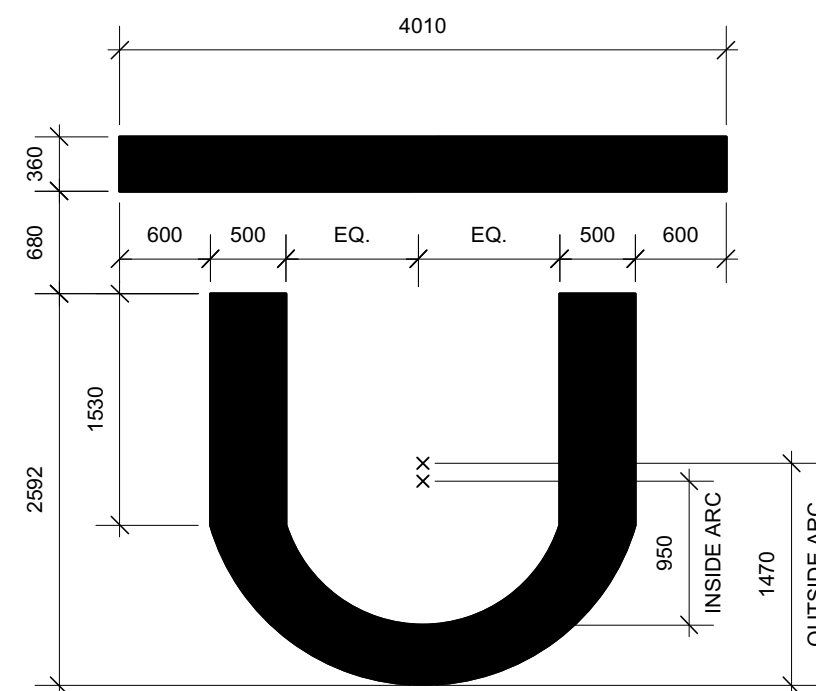
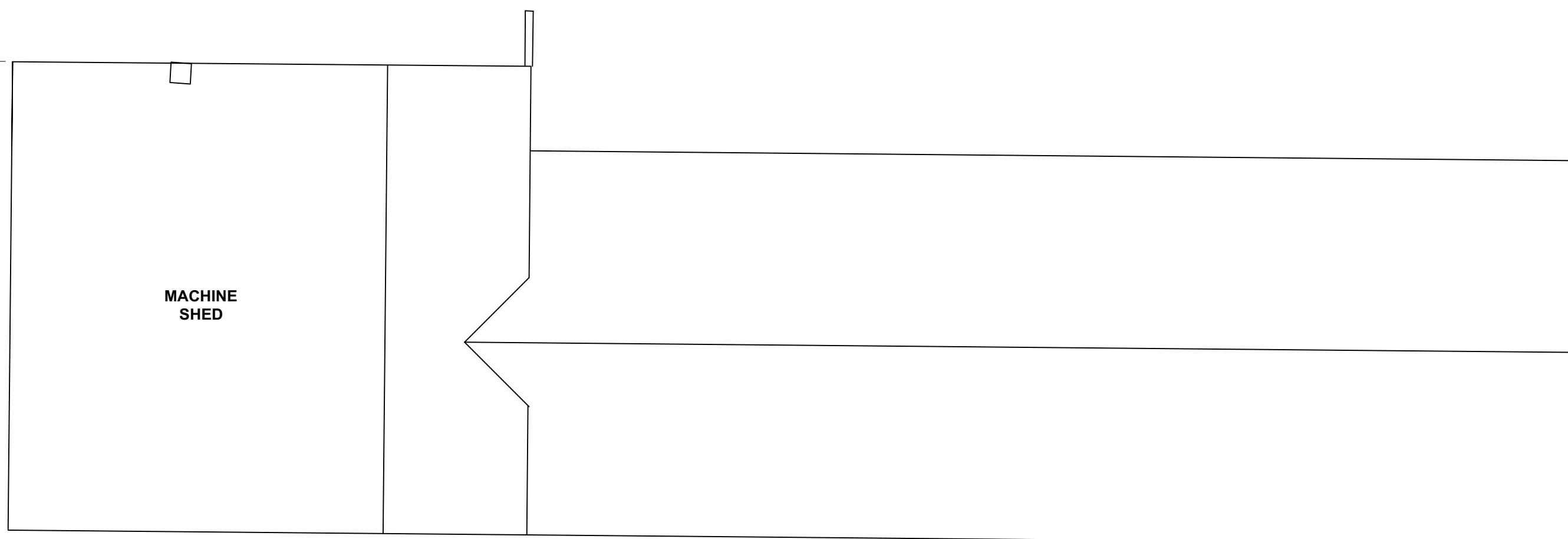
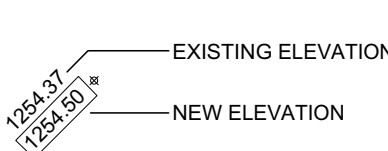


1 SITE & ROOF PLAN  
Scale: 1:100

SITE / ROOF PLAN KEYNOTES

1. EXISTING SHINGLES TO REMAIN. ALLOW FOR REALIGNING OR REINSTALLING SHINGLES AS A RESULT OF BUILDING LIFTING, MOVING, AND LEVELLING. ALLOW FOR REMOVAL AND REINSTATEMENT ALONG JUNCTION BETWEEN MAIN BARN AND WEST ADDITION.
2. EXISTING ROOF HATCH TO REMAIN.
3. REPAIR EXISTING LIGHTNING ROD - REFER TO ELECT.
4. PAINT SHINGLES AS PER DESIGN INDICATED. COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE. REFER TO 2/A3. PROVIDE SHOP DRAWINGS AND PROPOSED TECHNIQUE FOR APPROVAL BY DEPARTMENTAL REPRESENTATIVE PRIOR TO PAINTING.
5. LINE OF WALLS BELOW.
6. NEW CONCRETE APRON TO SLOPE AWAY - REFER TO STRUCT.
7. EXISTING CONCRETE SLAB WITH BRANDING SYMBOLS TO BE REPAIRED AND REINSTATED AT NEW GRADE ELEVATIONS. REFER TO STRUCT. AND CIVIL.
8. EXISTING WOOD FENCE TO REMAIN. PROTECT AS REQUIRED DURING CONSTRUCTION.
9. EXISTING GRAVEL ROAD.
10. REGRADE AND SEED - REFER TO CIVIL AND SPEC.
11. EXISTING GRASS.
12. EXISTING RECYCLING AND WASTE RECEPTACLE AND CONCRETE PAD TO REMAIN. PROTECT OR TEMPORARILY RELOCATE AS REQUIRED DURING CONSTRUCTION.
13. NEW HYDRANT - REFER TO MECH.
14. WORK HORSE BARN TO BE LIFTED AND RELOCATED TO FACILITATE CONSTRUCTION OF NEW FOUNDATION. REFER TO STRUCT. AND SPEC.
15. LEAN-TO ADDITION TO BE DETACHED FROM MAIN BARN AND TEMPORARILY RELOCATED PRIOR TO BARN LIFTING AND MOVING. REINSTATE UPON NEW FOUNDATIONS AND RE-ATTACH TO BARN. REFER TO STRUCT.
16. PROPOSED LAYDOWN AREA AND TEMPORARY WORK HORSE BARN RELOCATION. PROVIDE FENCING. REFER TO SPEC.

LEGEND



2 BAR U RANCH GRAPHIC DIMENSIONS  
Scale: 1:50

DEMOLITION FLOOR PLAN NOTES:

1. REMOVE INTERIOR WOOD WALL PANELS INCLUDING BOARDS AND PLYWOOD SHEATHING AS REQUIRED FOR MOVING OF BARN OR FOR COMPLETION OF WORK. CATALOGUE AND STORE FOR REINSTALLATION.
2. ALL ELEMENTS THAT ARE REQUIRED TO BE REMOVED AND REINSTATED FOR THE WORK TO BE COMPLETED ARE REQUIRED TO BE SYSTEMATICALLY REMOVED, CATALOGUED, AND LABELLED AS REQUIRED TO ENSURE REINSTALLATION IN THE CORRECT LOCATIONS. REFER TO SPEC SECTION 02 42 13.01. GIVEN THAT THIS IS A CLASSIFIED HERITAGE BUILDING, APPROPRIATE PROTECTION MEASURES MUST BE INCORPORATED INTO THE WORK TO AVOID DAMAGING THE EXISTING CONSTRUCTION AND MATERIALS.
3. CONTRACTOR TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE ALL ITEMS REQUIRED TO BE TEMPORARILY MOVED. ALL SUCH ITEMS ARE TO BE SALVAGED AND RETURNED TO OWNER.
4. RETAIN ALL EXISTING HARDWARE AND FASTENERS FOR REINSTALLATION. WHERE NEW FASTENERS ARE REQUIRED, MATCH WITH LIKE WHERE POSSIBLE OR USE SLOTTED SCREWS.



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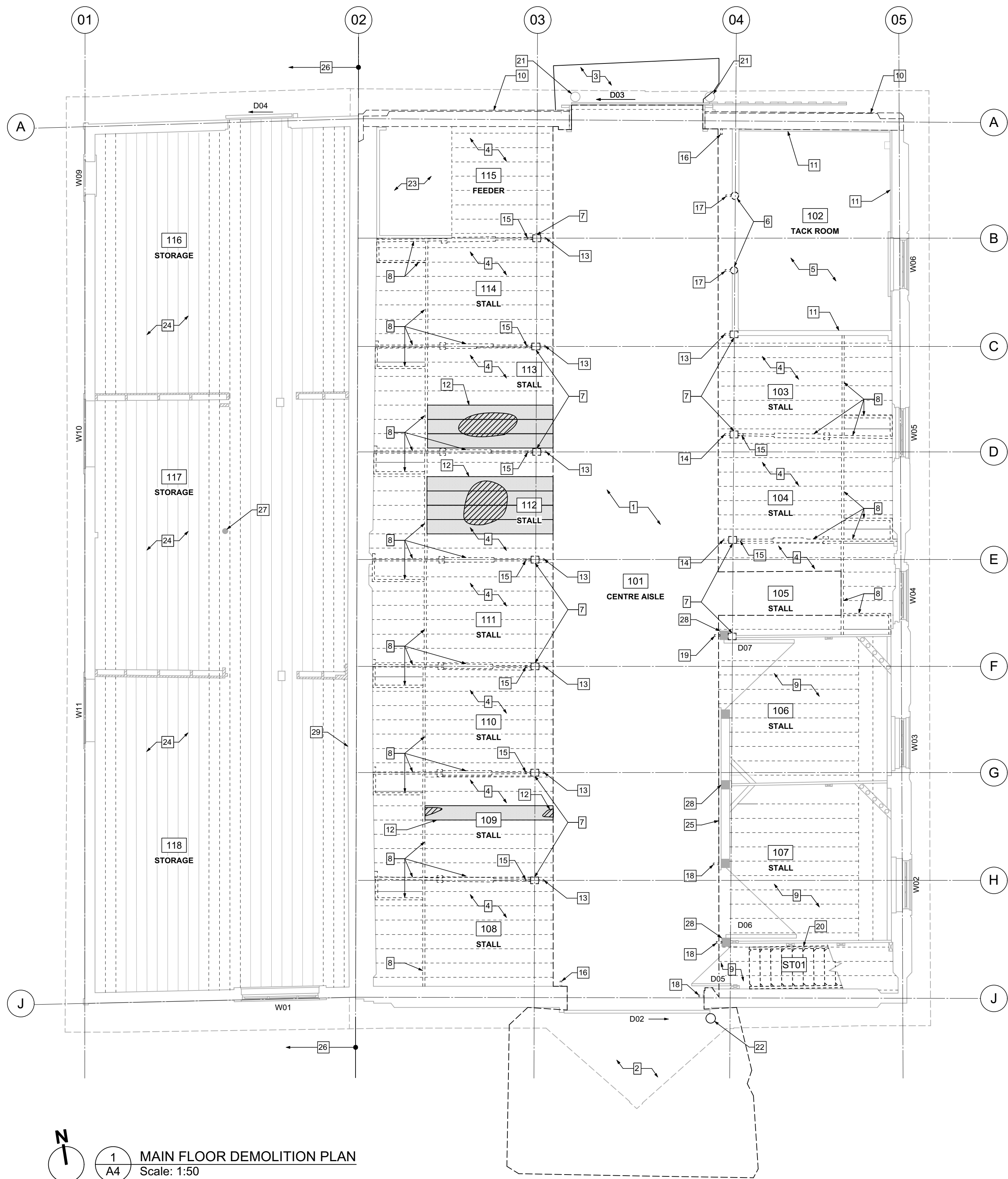
Project

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by <b>K.KROEGER</b>	Conçu par
Drawn by <b>K.KROEGER</b>	Dessiné par
Approved by <b>G.GROSS</b>	Approuvé par
PWGSC Project Manager	Administrateur de Projets TPSPC
<b>G.SPENCE</b>	
Drawing title	Titre du dessin

MAIN FLOOR DEMOLITION  
PLAN & LOFT FLOOR  
DEMOLITION PLAN

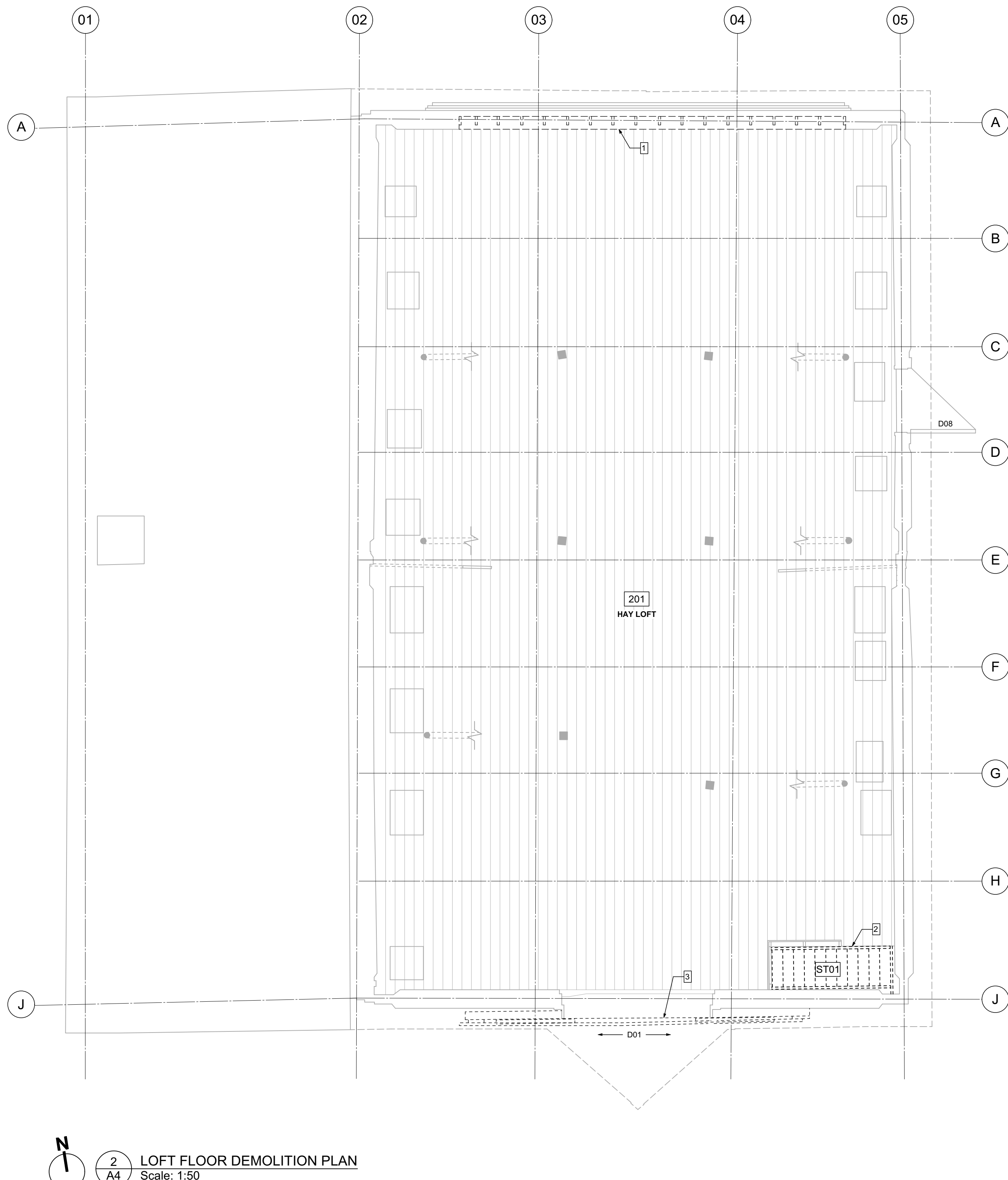
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A4 MAIN FLOOR DEMOLITION PLAN  
Scale: 1:50

MAIN FLOOR DEMOLITION PLAN KEYNOTES

1. DEMOLISH CONCRETE SLAB - REFER TO STRUCT.
2. DEMOLISH CONCRETE APRON - REFER TO STRUCT.
3. EXISTING CONCRETE SLAB WITH BRANDING SYMBOLS TO BE REPAIRED AND REINSTATED - REFER TO STRUCT. FOR REPAIRS AND REINSTALLATION.
4. REMOVE EXISTING 2 LAYERS OF WOOD FLOOR BOARDS. TOP LAYER IS LOOSE Laid WOOD FLOOR BOARDS - 40 THICK x 200-300 WIDE (WIDTHS VARY THROUGHOUT) RUNNING IN CONTINUOUS LENGTHS FROM MANGERS TO CENTRE AISLE. BOTTOM LAYER IS NAILED DOWN WOOD FLOOR BOARDS 40 THICK x 200-300 WIDE (WIDTHS VARY THROUGHOUT) RUNNING IN CONTINUOUS LENGTHS FROM LOG WALLS TO CENTRE AISLE (APPROX. 3170 LONG). CATALOGUE FOR STORAGE AND REINSTALLATION.
5. REMOVE PLYWOOD FLOOR AS REQUIRED FOR NEW FOUNDATION. STORE FOR REINSTALLATION.
6. DEMOLISH 120 Ø WOOD POST - REFER TO STRUCT.
7. EXISTING BUILT UP WOOD COLUMN TO BE EXTENDED - REFER TO STRUCT.
8. REMOVE EXISTING PARTIAL HEIGHT WOOD STALL PARTITION C/W MANGER PARTITIONS. CATALOGUE FOR STORAGE AND REINSTALLATION.
9. REMOVE EXISTING NAILED WOOD FLOOR 255-260 WIDE (THICKNESS AND LAYERS UNKNOWN). CATALOGUE FOR STORAGE AND REINSTALLATION.
10. FAUX LOG CONCRETE PARGING OVER LOG WALL CONSTRUCTION. REFER TO ELEVATIONS FOR DETAILED INSTRUCTIONS.
11. REMOVE EXISTING WOOD WALL PANELS AS REQUIRED FOR LOG WORK. CATALOGUE AND STORE FOR REINSTALLATION.
12. DEMOLISH DETERIORATED/DAMAGED SPRUCE WOOD FLOOR BOARDS.
13. REMOVE TYPE "Y" (IRON SADDLE HOOK) HARDWARE C/W FASTENERS. CATALOGUE AND STORE FOR REINSTALLATION AT NEW HEIGHT. CONFIRM FINAL MOUNTING HEIGHTS WITH DEPARTMENTAL REPRESENTATIVE.
14. REMOVE TYPE "Z" (MOUNTED WOODEN SADDLE RACK) HARDWARE C/W FASTENERS. CATALOGUE AND STORE FOR REINSTALLATION AT NEW HEIGHT. CONFIRM FINAL MOUNTING HEIGHTS WITH DEPARTMENTAL REPRESENTATIVE.
15. REMOVE TYPE "W" (WOODEN HOOK) HARDWARE C/W FASTENERS. CATALOGUE AND STORE FOR REINSTALLATION AT NEW HEIGHT. CONFIRM FINAL MOUNTING HEIGHTS WITH DEPARTMENTAL REPRESENTATIVE.
16. RETAIN TYPE "X" (DOUBLE WALL HOOK) HARDWARE. PROTECT DURING CONSTRUCTION.
17. REMOVE TYPE "U" (HORSESHOE HOOK) HARDWARE C/W FASTENERS. CATALOGUE AND STORE FOR REINSTALLATION ON NEW COLUMN. CONFIRM FINAL MOUNTING HEIGHTS WITH DEPARTMENTAL REPRESENTATIVE.
18. RETAIN TYPE "U" (HORSESHOE HOOK) HARDWARE. PROTECT DURING CONSTRUCTION.
19. RETAIN TYPE "C" (SCHOOL COAT HOOK) HARDWARE. PROTECT DURING CONSTRUCTION.
20. EXISTING STAIRS TO BE REMOVED PRIOR TO LIFTING AND MOVING AND REINSTALLED ±57 LOWER. REFER TO STAIR DRAWINGS.
21. EXISTING DOOR ROLLER GUIDE FASTENED TO CONC. SLAB TO REMAIN. PROTECT DURING CONSTRUCTION.
22. REMOVE EXISTING DOOR ROLLER GUIDE. STORE FOR REINSTALLATION IN NEW CONC. SLAB.
23. EXISTING PLYWOOD FEED CONTAINER TO REMAIN. DISASSEMBLE AND REMOVE AS REQUIRED DURING CONSTRUCTION. STORE FOR REINSTALLATION.
24. DEMOLISH ALL DETERIORATED AND DAMAGED 25x180 T&G WOOD FLOOR BOARDS. ALLOW FOR 30% REPLACEMENT. ADDITIONALLY, REMOVE BOARDS AS REQUIRED FOR STRUCTURAL REPAIRS AND NEW FOUNDATION. CATALOGUE FOR STORAGE AND REINSTALLATION.
25. BRIDLE HOLDER TO REMAIN. IF REMOVED PRIOR TO MOVING OF BARN, STORE FOR RE-INSTALLATION.
26. LEAN-TO ADDITION TO BE DETACHED FROM MAIN BARN AND TEMPORARILY RELOCATED PRIOR TO BARN LIFTING. REINSTATE UPON NEW FOUNDATIONS AND RE-ATTACH TO BARN. REFER TO STRUCT.
27. EXISTING WOOD COLUMN TO REMAIN - REFER TO STRUCT.
28. MODIFY WOOD COLUMN - REFER TO STRUCT.
29. TEMPORARILY REMOVE STUD WALL AS REQUIRED FOR SEPARATING THE WEST ADDITION. RETAIN ALL ELEMENTS REMOVED FOR REINSTALLATION.



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A4 LOFT FLOOR DEMOLITION PLAN  
Scale: 1:50

LOFT FLOOR DEMOLITION PLAN KEYNOTES

1. DEMOLISH WOOD STUD INFILL WALL - REFER TO STRUCT.
2. EXISTING STAIRS TO BE REMOVED PRIOR TO LIFTING/MOVING AND REINSTALLED ±57 LOWER. REFER TO STAIR DRAWINGS.
3. REMOVE COUNTERWEIGHTED SLIDING LOFT DOORS FOR REPAIR.



MAIN FLOOR PLAN & LOFT FLOOR PLAN NOTES:  
1. INSTALL SALVAGED HARDWARE WITH SALVAGED FASTENERS. WHERE NEW FASTENERS ARE REQUIRED, MATCH WITH LIKE. IF THAT IS NOT POSSIBLE, USE SLOTTED SCREWS.



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Revision	Description	Date
Client		client

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PROCUREMENT CANADA  
(PSPC)

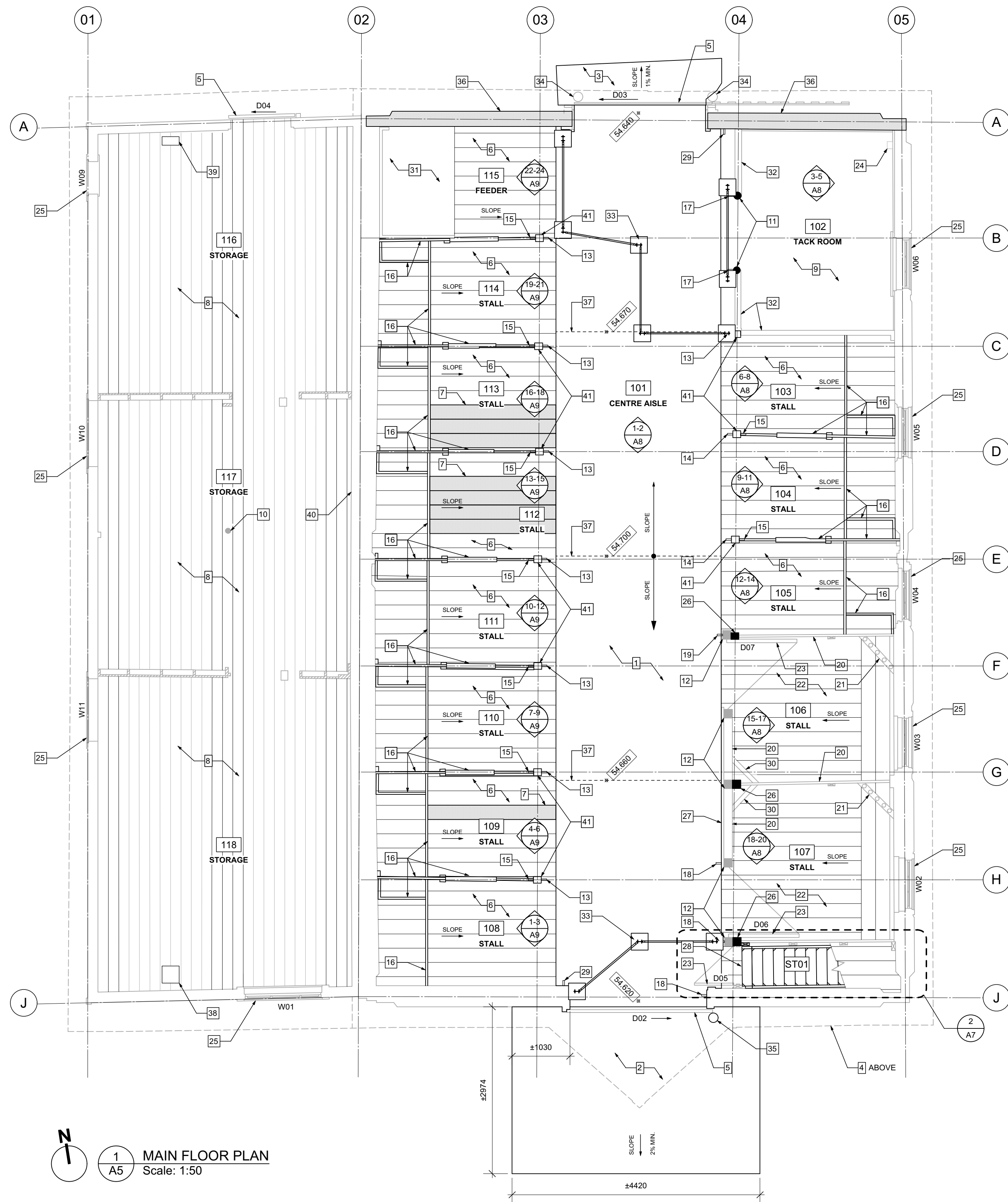
Project

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by <b>K.KROECKER</b>	Conçu par
Drawn by <b>K.KROECKER</b>	Dessiné par
Approved by <b>G.GROSS</b>	Approuvé par
PWGSC Project Manager <b>G.SPENCE</b>	Administrateur de Projets TPSCG
Drawing title	Titre du dessin

MAIN FLOOR PLAN &  
LOFT FLOOR PLAN

Project no./No. du projet <b>R.083678.001</b>	Drawing no./No. du dessin <b>A5</b> OF XX	Revision no. <b>0</b>
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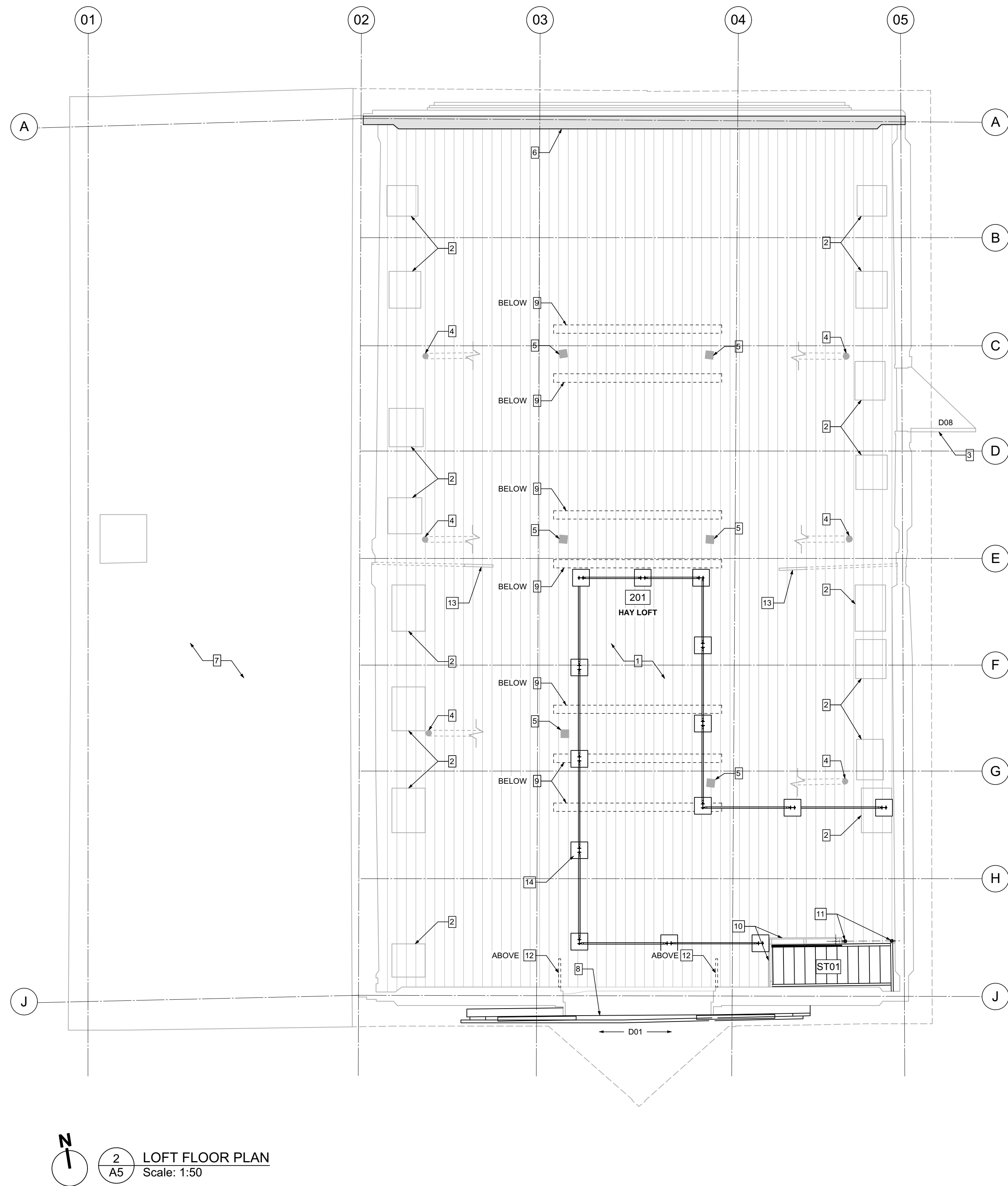


MAIN FLOOR PLAN KEYNOTES

- NEW CONCRETE SLAB - REFER TO STRUCT.
- NEW CONCRETE APRON TO SLOPE AWAY - REFER TO STRUCT.
- EXISTING CONCRETE SLAB WITH BRANDING SYMBOLS TO BE REINSTATED AT NEW GRADE ELEVATIONS - REFER TO GRADING PLAN
- OUTLINE OF ROOF OVERHANG ABOVE
- REPAIR OF EXISTING DOOR N.I.C. TO BE COMPLETED BY PCA. COORDINATE WITH PCA DURING CONSTRUCTION.
- REINSTALL EXISTING 2 LAYERS OF WOOD FLOOR BOARDS. TOP LAYER IS LOOSE LAID WOOD FLOOR BOARDS - 40 THICK x 200-300 WIDE (WIDTHS VARY THROUGHOUT) RUNNING IN CONTINUOUS LENGTHS FROM MANGERS TO CENTRE AISLE. BOTTOM LAYER IS NAILED DOWN WOOD FLOOR BOARDS 40 THICK x 200-300 WIDE (WIDTHS VARY THROUGHOUT) RUNNING IN CONTINUOUS LENGTHS FROM LOG WALLS TO CENTRE AISLE (APPROX. 3170 LONG). REFER TO STRUCTURAL FOR FASTENING INSTRUCTIONS.
- NEW 40 THICK 200-300 WIDE LOOSE LAID WOOD FLOOR BOARDS TO MATCH EXISTING
- INSTALL EXISTING AND NEW 25x180 T&G WOOD FLOOR BOARDS. REFER TO STRUCTURAL FOR FASTENING INSTRUCTIONS. ALLOW FOR 30% NEW BOARDS.
- REINSTALL EXISTING PLYWOOD FLOOR AND WALL FINISHES
- EXISTING 90 Ø WOOD COLUMN - REFER TO STRUCT.
- NEW 120 Ø WOOD COLUMN - REFER TO STRUCT.
- MODIFY EXISTING 150x150 SOLID WOOD COLUMN - REFER TO STRUCT.
- INSTALL TYPE "Y" (IRON SADDLE HOOK) HARDWARE USING EXISTING FASTENERS AT NEW HEIGHT TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
- INSTALL TYPE "Z" (MOUNTED WOODEN SADDLE RACK) HARDWARE USING EXISTING FASTENERS AT NEW HEIGHT TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
- INSTALL TYPE "W" (WOODEN HOOK) HARDWARE USING EXISTING FASTENERS AT NEW HEIGHT TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
- REINSTALL EXISTING PARTIAL HEIGHT WOOD STALL PARTITION
- REINSTALL EXISTING 1" (HORSESHOE HOOK) HARDWARE USING EXISTING FASTENERS AT NEW HEIGHT TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
- EXISTING TYPE "U" (HORSESHOE HOOK) HARDWARE TO REMAIN
- EXISTING TYPE "C" (SCHOOL COAT HOOK) HARDWARE TO REMAIN
- EXTEND EXISTING FULL HEIGHT WOOD PARTITION FROM BASE TO SUIT NEW CEILING HEIGHT. SITE CONFIRM DIMENSIONS.
- EXISTING MANGER TO REMAIN. PROTECT DURING CONSTRUCTION.
- REINSTALL EXISTING WOOD FLOOR 250-260 WIDE (THICKNESS AND LAYERS UNKNOWN). DOOR TO REMAIN. REMOVE AS REQUIRED DURING CONSTRUCTION. REFER TO DETAILS FOR REINSTALLATION AT LOWER HEIGHT.
- ELECTRICAL PANEL - REFER TO ELECT.
- REPAIR OF EXISTING WINDOWS N.I.C. TO BE COMPLETED BY PCA. COORDINATE WITH PCA DURING CONSTRUCTION.
- NEW BUILT UP WOOD COLUMN - REFER TO STRUCT.
- EXISTING BRIDLE HOLDER TO REMAIN. PROTECT OR TEMPORARILY REMOVE DURING CONSTRUCTION.
- NEW WOOD STEP. REFER TO STAIR SECTIONS AND DETAILS.
- EXISTING TYPE "X" (DOUBLE WALL HOOK) HARDWARE
- EXISTING FEEDER TO REMAIN. PROTECT DURING CONSTRUCTION
- EXISTING FEED CONTAINER
- EXTEND EXISTING WOOD STUD WALL FROM BASE TO SUIT NEW CEILING HEIGHT. SITE CONFIRM DIMENSIONS.
- NEW MOVEABLE VISITOR BARRIERS. REFER TO VISITOR BARRIER DRAWINGS.
- EXISTING DOOR ROLLER GUIDES EMBEDDED IN CONC. SLAB TO REMAIN. REMOUNTING MAY BE REQUIRED DUE TO MODIFIED ELEVATIONS. ENSURE ROLLER GUIDES FUNCTION PROPERLY.
- REINSTALL EXISTING DOOR ROLLER GUIDE IN NEW CONC. SLAB. MATCH ORIGINAL MOUNTING HEIGHT RELATIVE TO BOTTOM RAIL OF DOOR.
- LOG REPLACEMENT. REFER TO ELEVATIONS AND STRUCT.
- CONTROL JOINT - REFER TO STRUCT.
- NEW 300 x 300 FLOOR GRILLE - REFER TO MECH. & ELECT.
- NEW 150 x 300 FLOOR GRILLE - REFER TO MECH.
- REINSTATE STUD WALL. PATCH AND MAKE GOOD AS REQUIRED.
- EXISTING BUILT UP WOOD COLUMN TO BE EXTENDED - REFER TO STRUCT.

LOFT FLOOR PLAN KEYNOTES

- EXISTING 20 x 170 SHIPLAP BOARDS ON 20 x 140 PLAIN BOARDS THROUGHOUT TO REMAIN
- EXISTING HATCHES TO HORSE STALLS BELOW TO REMAIN
- EXISTING HINGED LOFT DOOR TO REMAIN
- EXISTING ROUND COLUMNS (RANGE 110-125 Ø) TO REMAIN - REFER TO STRUCT. FOR ADDITIONAL FASTENERS
- EXISTING WOOD COLUMNS (RANGE 140-150 x 180-230) TO REMAIN - REFER TO STRUCT. FOR ADDITIONAL FASTENERS
- NEW LOGS - REFER TO STRUCT.
- ROOF BELOW
- EXISTING COUNTERWEIGHTED SLIDING LOFT DOORS CW METAL TRACK TO BE REPAIRED. REFER TO ELEVATIONS AND DETAILS
- NEW JOISTS BELOW - REFER TO STRUCT.
- EXISTING WOOD WALL TO REMAIN
- NEW WOOD GRAB BARS. REFER TO STAIR DRAWINGS
- ATTIC BRACE ABOVE - REFER TO STRUCT.
- DIAGONAL WOOD SUPPORT TO REMAIN
- NEW VISITOR BARRIER. REFER TO VISITOR BARRIER DRAWINGS





**BUILDING ELEVATION NOTES**

1. ALL WINDOWS AND DOORS TO BE REMOVED PRIOR TO LIFTING/MOVING THE BUILDING. CATALOGUE AND STORE FOR REINSTALLATION. PROVIDE BLOCKING IN OPENINGS AS PER ENGINEERED DRAWINGS

FINISHES SCHEDULE	
SYMBOL	DESCRIPTION
PT-1	PAINT 1 - RED
PT-2	PAINT 2 - WHITE, EXTERIOR
PT-3	PAINT 3 - WHITE, INTERIOR
PT-4	PAINT 4 - BROWN, INTERIOR

NOTE: SPECIFIC COLOUR WILL BE PROVIDED BY THE DEPARTMENTAL REPRESENTATIVE.

REFER TO SPEC.

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Revision	Description	Date

**PUBLIC SERVICES AND  
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(PSPC)**

Project	Project
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**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

Drawing title	Titre du dessin
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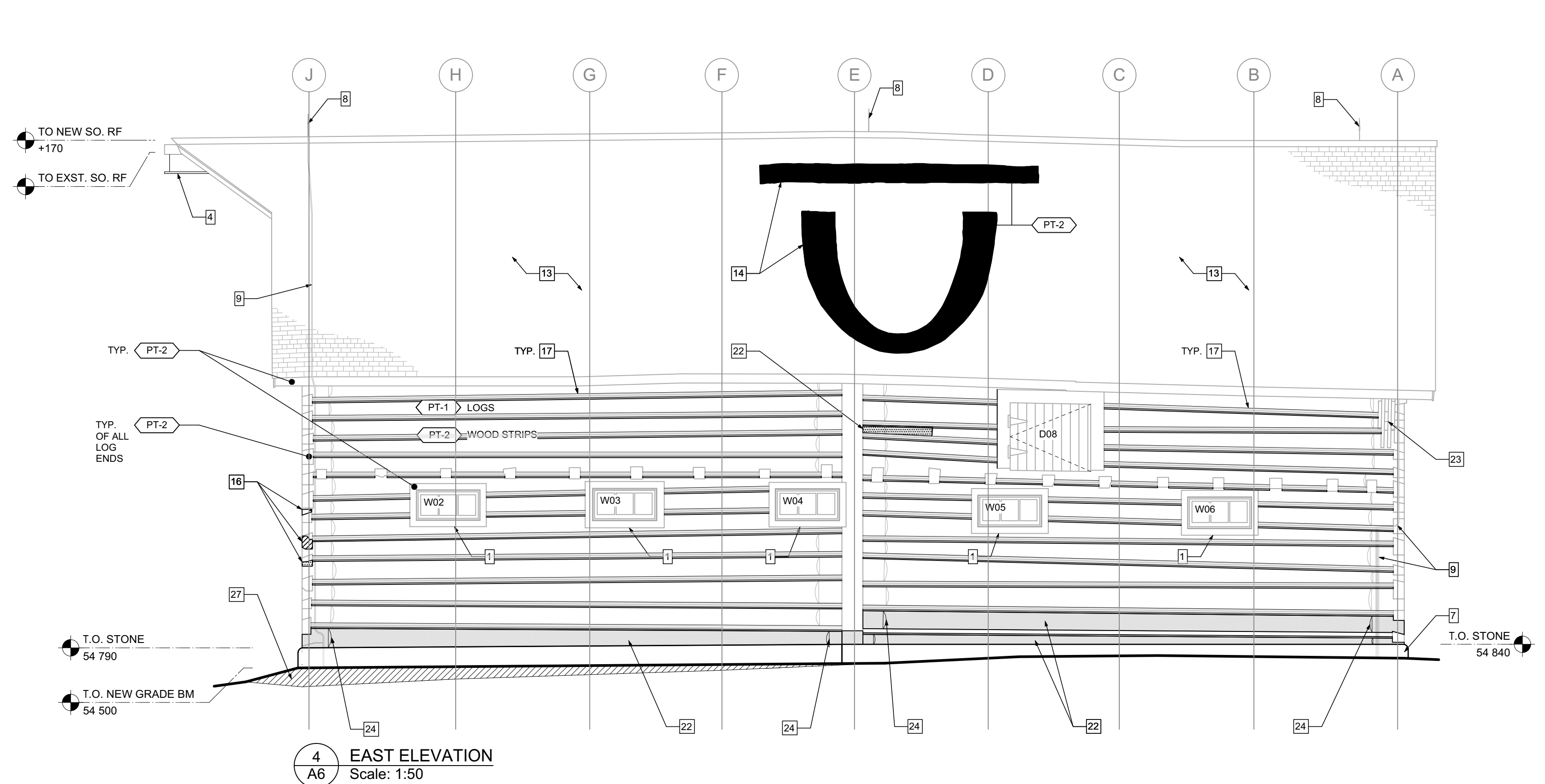
## BUILDING ELEVATIONS

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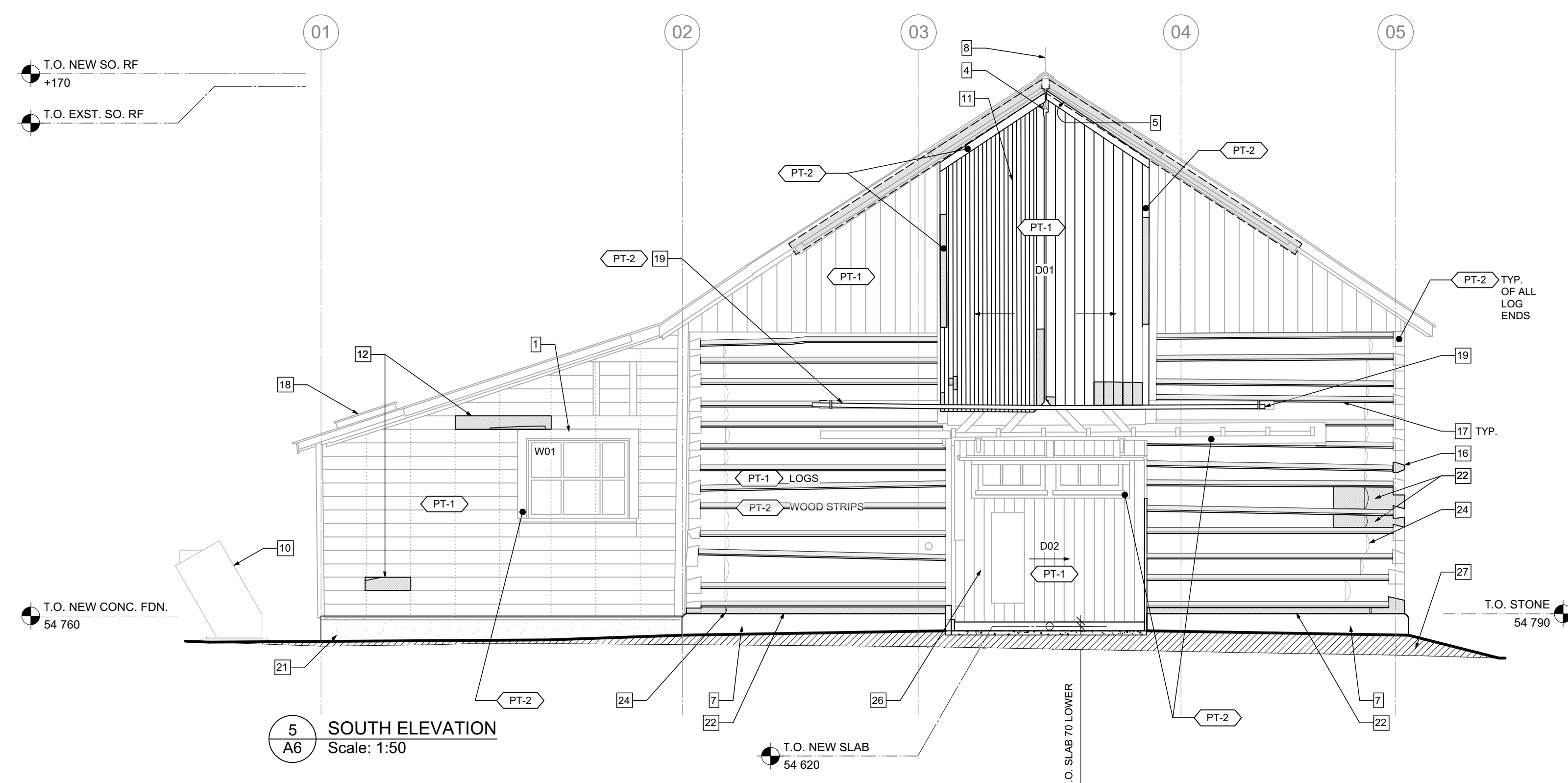
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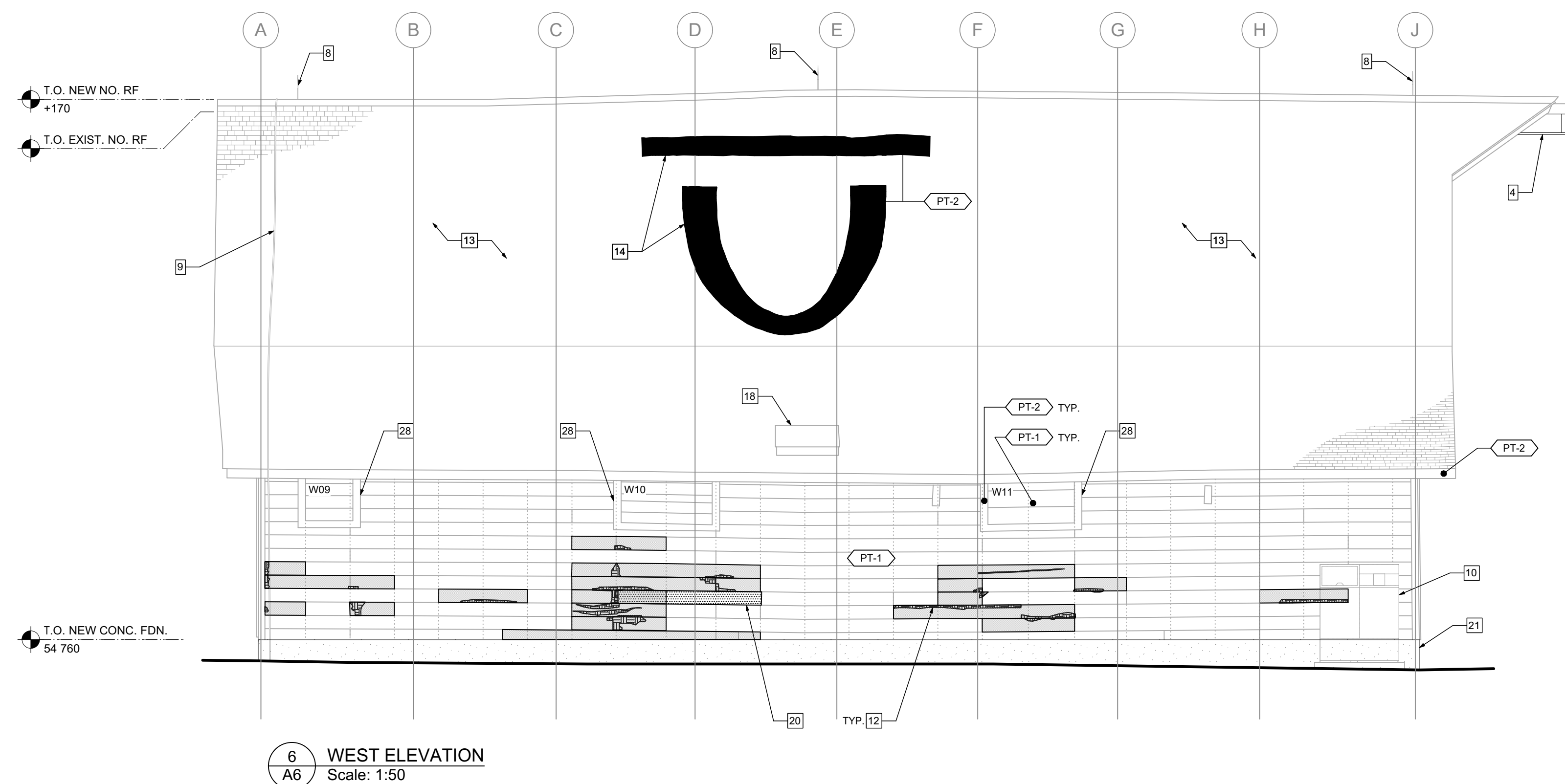
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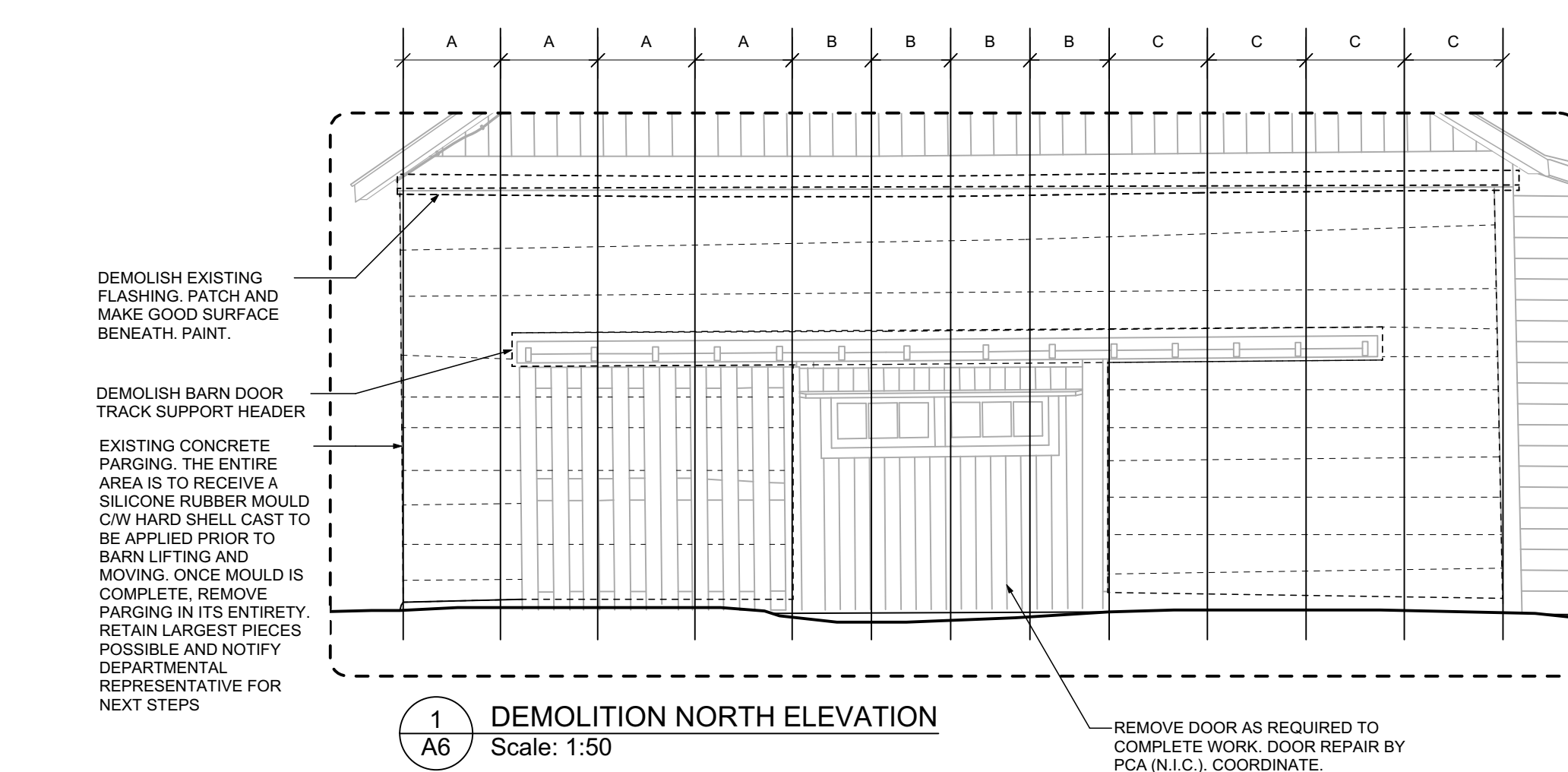
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A6 Scale: 1:50



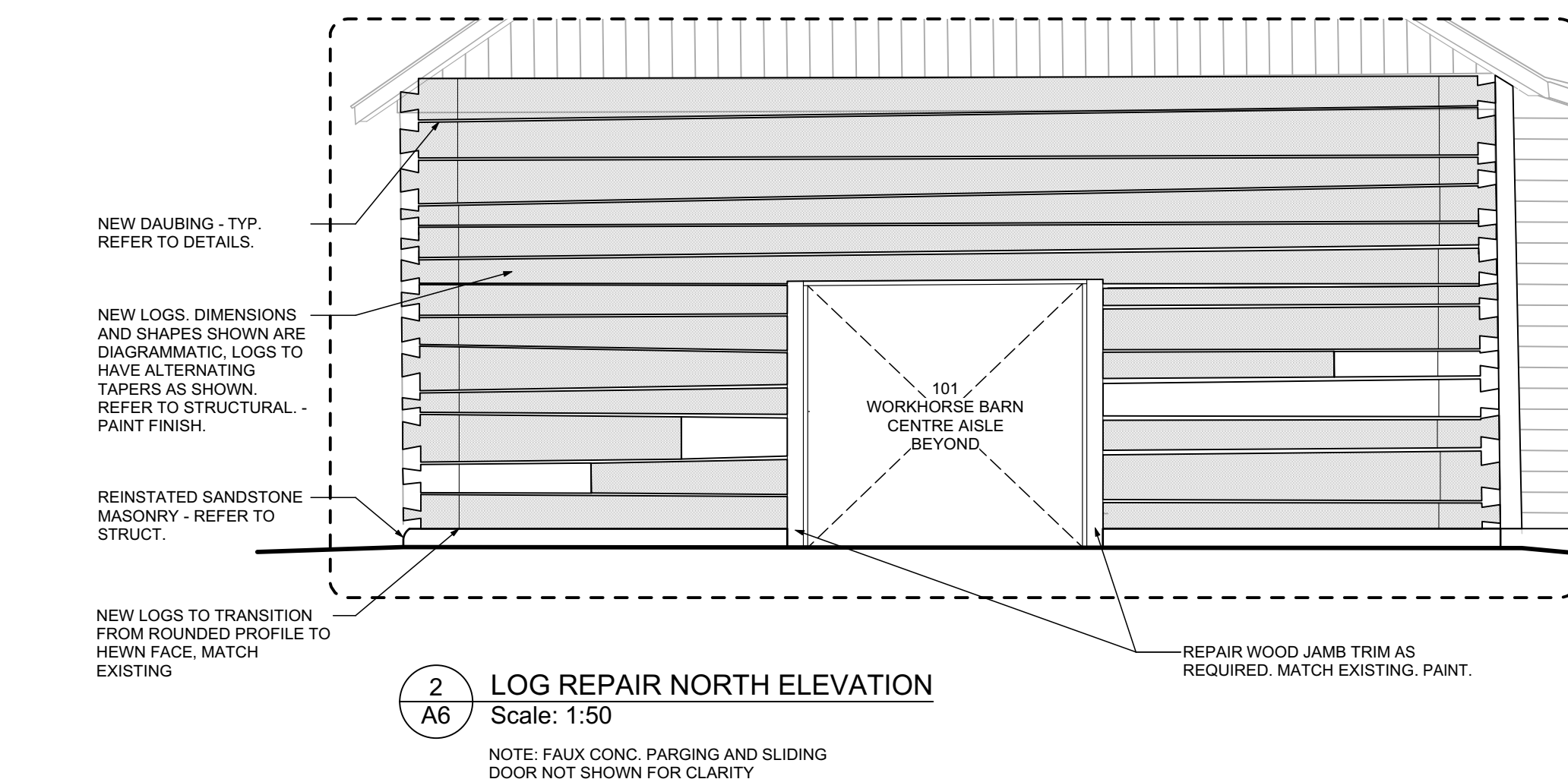
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A6 Scale: 1:50



6 WEST ELEVATION  
A6 Scale: 1:50

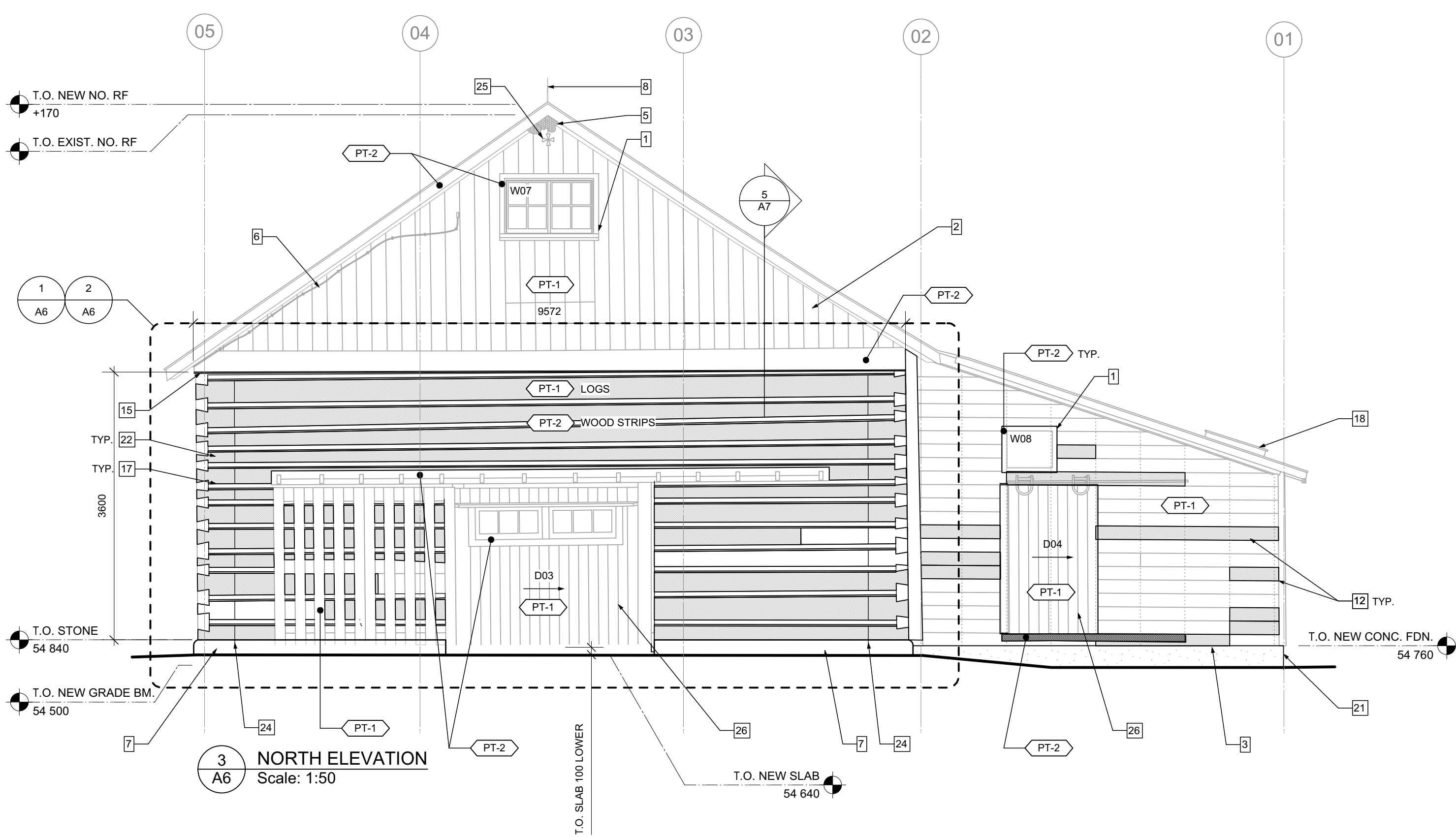


1 DEMOLITION NORTH ELEVATION  
A6 Scale: 1:50



2 LOG REPAIR NORTH ELEVATION  
A6 Scale: 1:50

NOTE: FAUX CONC. PAVING AND SLIDING  
DOOR NOT SHOWN FOR CLARITY



3 NORTH ELEVATION  
A6 Scale: 1:50

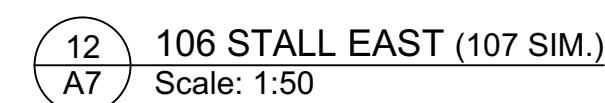
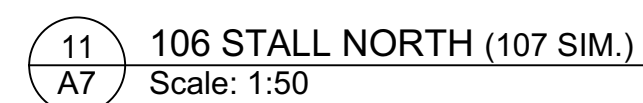
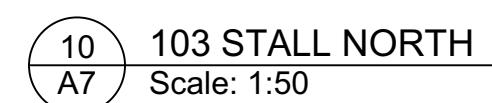
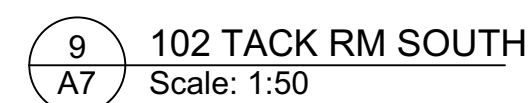
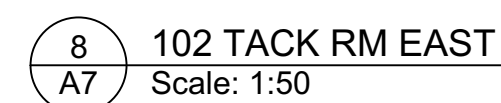
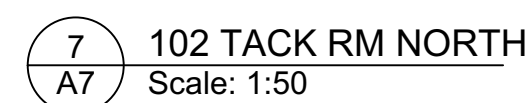
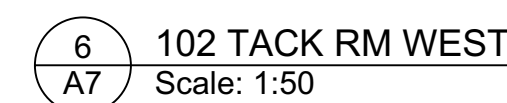
### ELEVATION KEYNOTES

- |     |   |     |  |     |  |
|-----|---|-----|--|-----|--|
| 1.  | WINDOW REPAIRS BY PCA (N.I.C.). COORDINATE AS REQUIRED DURING CONSTRUCTION.   | 12. | NEW #180 SHIPPLAS STUDS TO MATCH EXISTING. FASTEN WITH GALVANIZED NAILS. SEAMS TO BE LOCATED AT STUD LINE. GALVANIZING PAPER AT JOINTS - REFER TO #7 REPAIR DETAILS.             | 24. | NEW LOGS TO TRANSITION FROM ROUNDED PROFILE TO HEVIN FACE. MATCH EXISTING.   |
| 2.  | EXISTING VERTICAL WOOD SIDING TO REMAIN. REPAIR ONLY AS REQUIRED. ALLOW FOR 10% REPLACEMENT. PAINT  | 13. | EXISTING WOOD SHINGLES TO REMAIN. ALLOW FOR RE-ALIGNING OR REPLACING SHINGLES AS A RESULT OF BUILDING LIFTING, MOVING, AND LEVELLING.  | 25. | DESIGN IN WOOD SIDING TO REMAIN.   |
| 3.  | NEW WOOD BOARD TO MATCH EXISTING. FACE NAIL WITH GALVANIZED NAIL. PAINT AS REQUIRED DURING CONSTRUCTION.  | 14. | PAINT SHINGLES AS PER DESIGN INDICATED ON A3. COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE.  | 26. | DOOR REPAIR BY PCA (N.I.C.). COORDINATE AS REQUIRED DURING CONSTRUCTION.   |
| 4.  | RE-SUPPORT EXISTING HAY LIFT TRUCK - REFER TO STRUCTURAL  | 15. | NEW PRE-FINISHED METAL FLASHING - REFER TO DETAILS   | 27. | SITE REGRADING REQUIRED TO ACHIEVE POSITIVE DRAINAGE. REFER TO CIVIL.  |
| 5.  | EXISTING BARN SWALLOW NESTS. CONSULT PARKS CANADA SUPERVISING OFFICER FOR MITIGATION MEASURES PRIOR TO WORK - REFER TO #16.   | 16. | REPAIR/REPLACEMENT OF DOVEYAIL JOINT. TYP. - REFER TO STRUCT.  | 28. | REPAIR EXISTING PANELLED WINDOW FLUG CONSISTING OF WOOD SIDING AND SOLID WOOD BACK UP FRAME. REPAIR TECHNIQUE TO MATCH EXISTING APPLICATION. PAINT AS INDICATED. |
| 6.  | EXISTING PULLEY CORD FOR HAY LIFT PULLEY SYSTEM TO REMAIN. REPAIR TO WORKING ORDER.   | 17. | NEW CHINKING, DAUBING, AND WOOD STRIPS WHERE REQUIRED. EXISTING THICKNESS VARIES FROM 6-10mm. INSTALL AFTER BUILDING HAS BEEN SET ON NEW FOUNDATION. REFER TO #7 REPAIR DETAILS. |     |  |
| 7.  | REINSTATE SANDSTONE MASONRY FOUNDATION - REFER TO STRUCT.   | 18. | EXISTING ROOF HATCH TO REMAIN  |     |  |
| 8.  | REPAIR EXISTING LIGHTNING ROD - REFER TO ELECT.   | 19. | PAINT EXISTING 60 METAL PIPE DOOR GUIDE  |     |  |
| 9.  | EXISTING ELECTRICAL CONDUIT - REFER TO ELECT.   | 20. | FASTEN EXISTING LOOSE BOARD WITH NEW GALVANIZED NAILS.   |     |  |
| 10. | EXISTING RECYCLING AND WASTE RECEPTACLE AND CONCRETE PAD TO REMAIN. PROTECT OR TEMPORARILY RELOCATE AS REQUIRED DURING CONSTRUCTION.  | 21. | NEW EXPOSED BUSH HAMMERED CONCRETE FOUNDATION - REFER TO STRUCT.   |     |  |
| 11. | SLIDING WOOD DOOR TO BE LEVELLED AND REPAIRED. REUSE EXISTING HARDWARE WHERE POSSIBLE. REPLACE DECAYED T&G WOOD DOOR BOARDS. ALLOW FOR 15% REPLACEMENT. MATCH DIMENSIONS OF EXISTING BOARDS. GRIND AND PAINT AS REQUIRED DURING CONSTRUCTION. | 22. | LOG REPLACEMENT, REFINING, OR SPLICING - REFER TO STRUCT.  |     |  |
|     |   | 23. | HAY LIFT PULLEY SLOD TO REMAIN. PULLEY ASSEMBLY TO BE RESTORED TO GOOD WORKING CONDITION.  |     |  |





**GENERAL NOTE:**  
CHINKING AND DAUBING WORK TO BE DONE ONCE BUILDING HAS BEEN SET ON NEW FOUNDATION AND LEVELLING IS COMPLETE. RETAIN ALL EXISTING COMPONENTS WHERE POSSIBLE. ALLOW FOR REMOVAL AND RESETTling THROUGHOUT, SUBSEQUENT TO PLACEMENT OF BARN ON NEW FOUNDATION.



**PUBLIC SERVICES AND  
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(PSPC)**

Project	Pro
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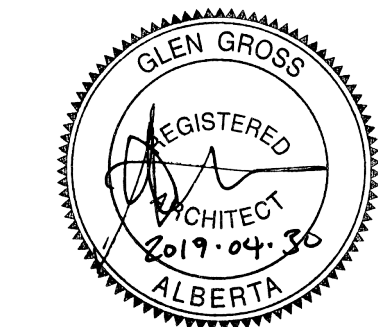
## BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION

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## REPAIR DETAILS

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0	ISSUED FOR TENDER	2019/04/30
Revision	Description	Date

Client client

**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

Project Projet

**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

Designed by Conçu par

K.KROEKEK

Drawn by Dessiné par

K.KROEKEK

Approved by Approuvé par

G.GROSS

PWGSC Project Manager Administrateur de Projets TPSPC

G.SPENCE

Drawing title Titre du dessin

**STAIR &  
VISITOR BARRIERS**

Project no./No. du projet

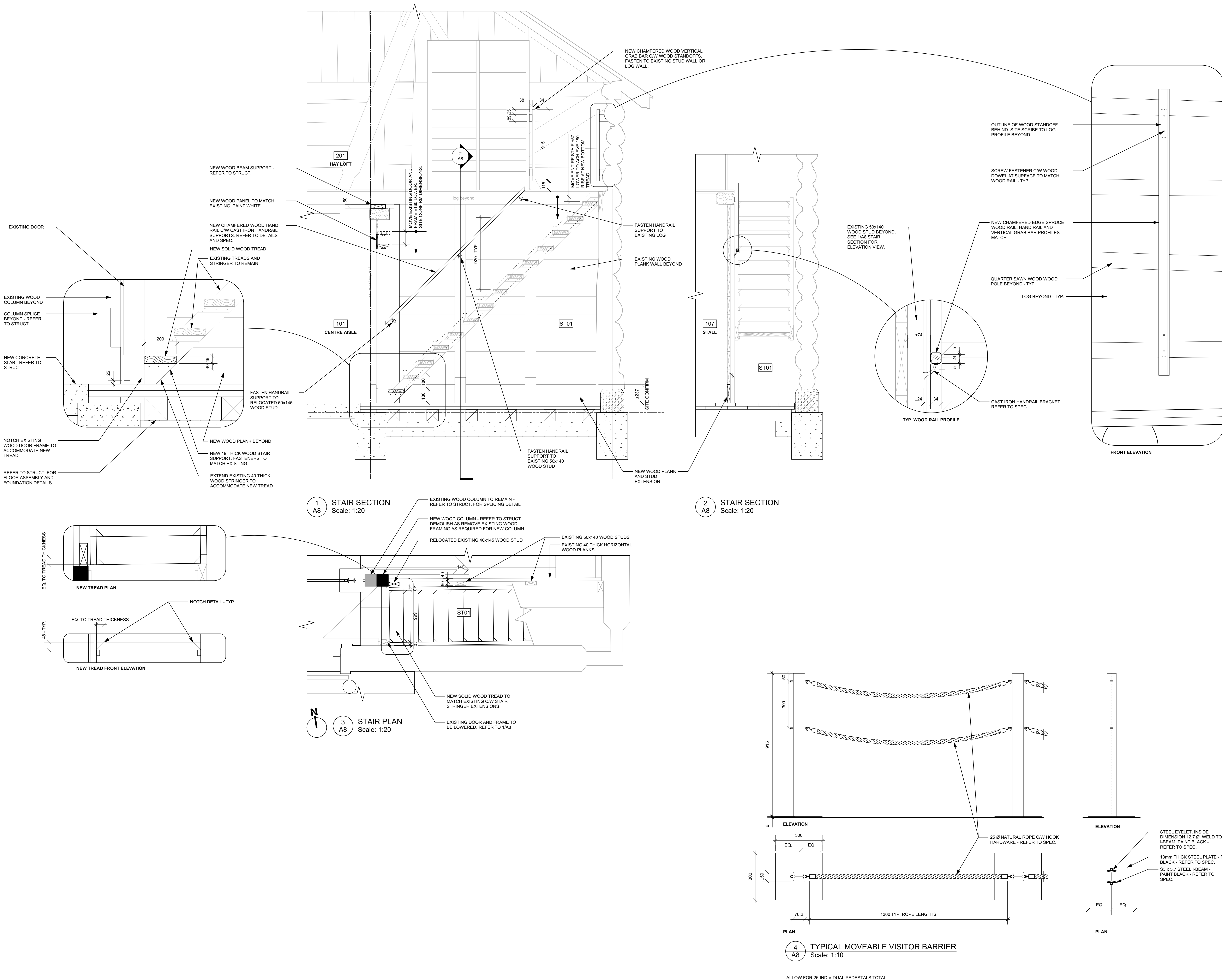
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Drawing no./No. du dessin

**A8**  
OF XX

Revision no.

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- INTERIOR ELEVATIONS NOTES:
- ALL INTERIOR WALLS TO BE WASHED, HAND BRUSH WITH SOAP AND WATER. EXISTING PAINT AND WHITEWASH FINISHES ARE TO REMAIN. PROTECT AS REQUIRED DURING CLEANING PROCESS.
  - ALL NEW SAWN WOOD POLES TO BE PAINTED TO MATCH ADJACENT EXISTING COLOUR, EITHER PT-03 (WHITE) OR PT-04 (BROWN). PAINT POLES PRIOR TO INSTALLATION.
  - ALL NON-FIXED FURNITURE AND ITEMS IN THE INTERIOR OF THE WORKHORSE BARN WILL BE REMOVED BY PARKS CANADA AGENCY PRIOR TO SITE MOBILIZATION.
  - REFER TO FLOOR PLANS FOR FLOOR REPAIR/REPLACEMENT

FINISHES SCHEDULE	
SYMBOL	DESCRIPTION
PT-1	PAINT 1 - RED
PT-2	PAINT 2 - WHITE, EXTERIOR
PT-3	PAINT 3 - WHITE, INTERIOR
PT-4	PAINT 4 - BROWN, INTERIOR

NOTE: SPECIFIC COLOUR WILL BE PROVIDED BY THE DEPARTMENTAL REPRESENTATIVE.

REFER TO SPEC.



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PUBLIC SERVICES AND  
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(PSPC)

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by <b>K.KROECKER</b>	Compu par
Drawn by <b>K.KROECKER</b>	Dessiné par
Approved by <b>G.GROSS</b>	Approuvé par
PWGSC Project Manager <b>G.SPENCE</b>	Administrateur de Projets TPSGC
Drawing title <b>INTERIOR ELEVATIONS</b>	Titre du dessin

Project no./No. du projet <b>R.083678.001</b>	Drawing no./No. du dessin <b>A9</b> OF XX	Revision no. <b>0</b>
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101 CENTRE AISLE NORTH ELEVATION  
SCALE: NTS



101 CENTRE AISLE SOUTH ELEVATION  
SCALE: NTS



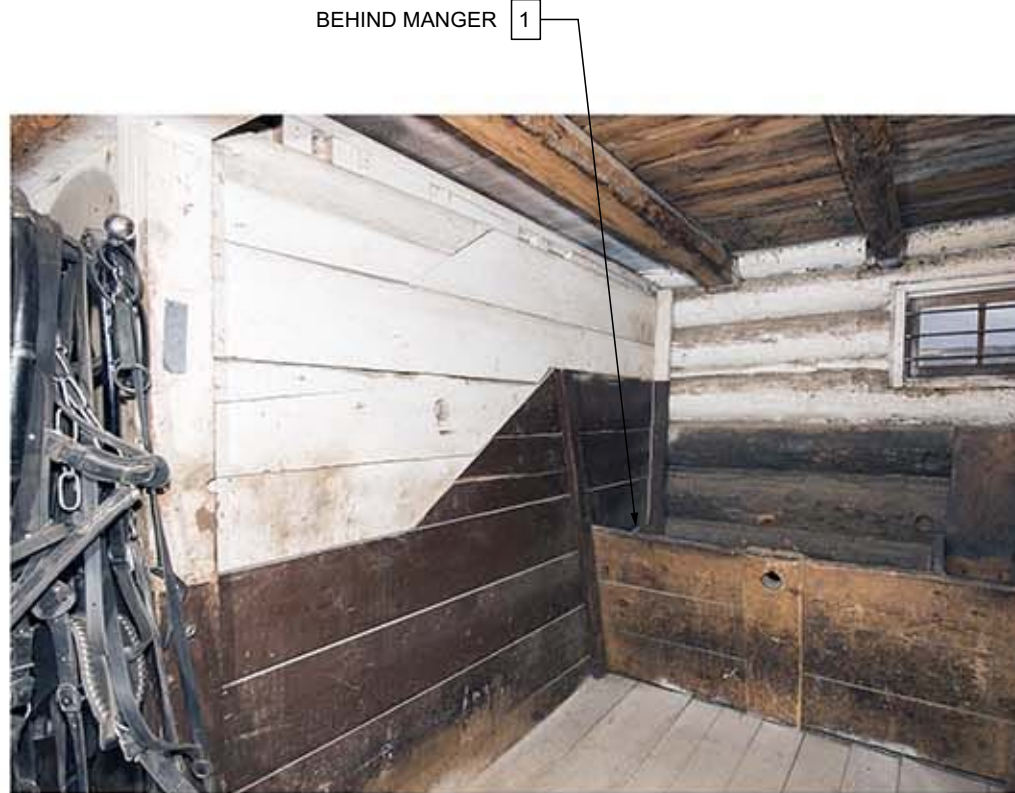
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102 TACK ROOM EAST ELEVATION  
SCALE: NTS



102 TACK ROOM SOUTH ELEVATION  
SCALE: NTS



103 STALL NORTH ELEVATION  
SCALE: NTS



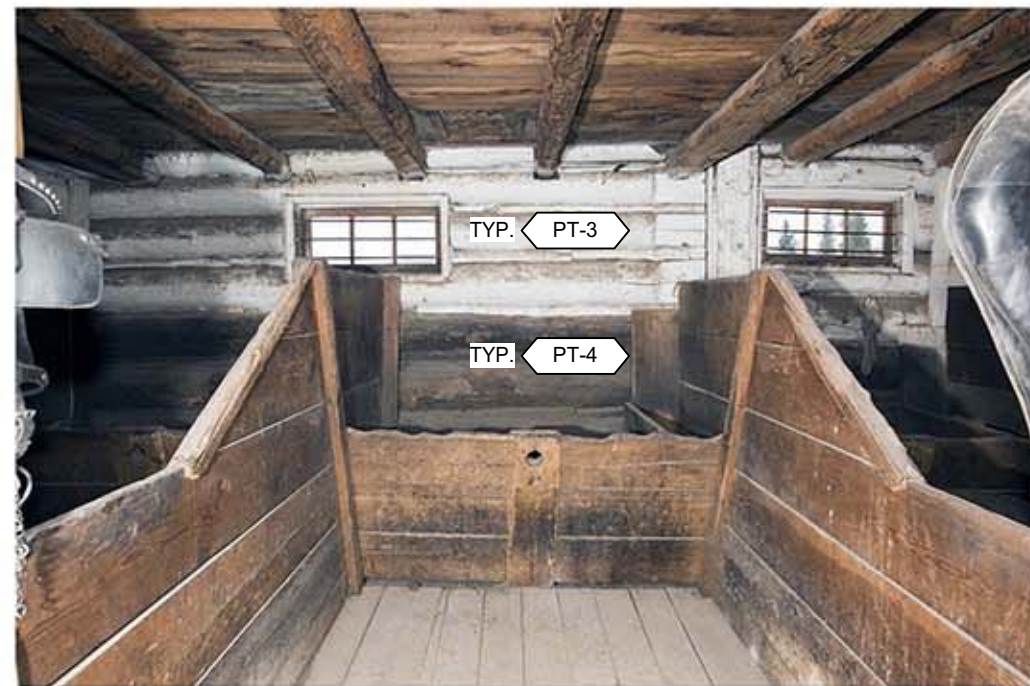
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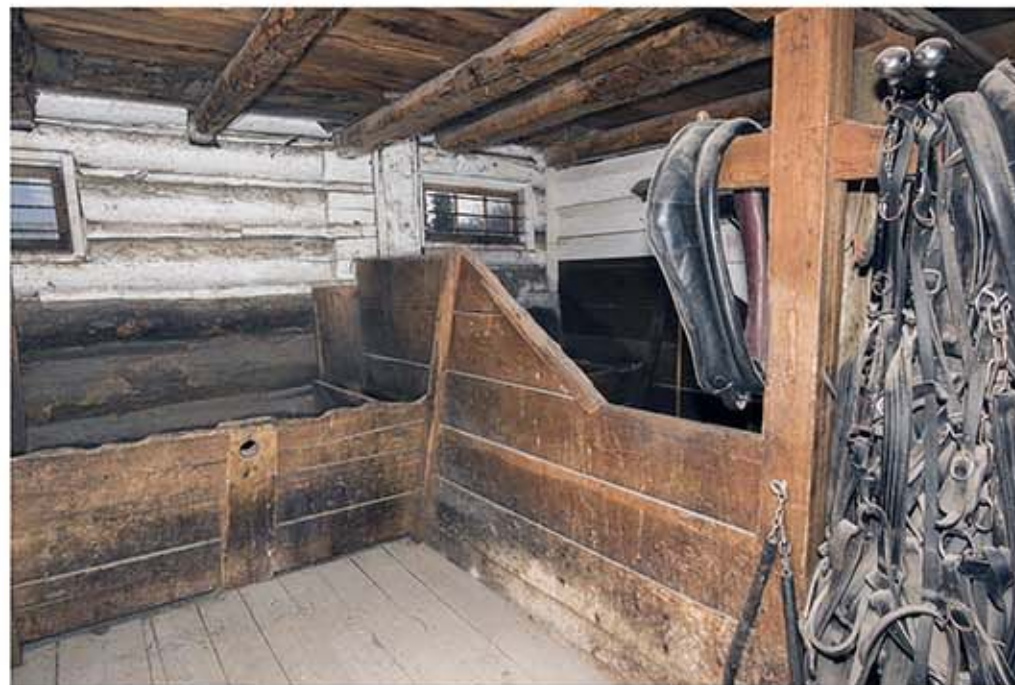
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SCALE: NTS



104 STALL NORTH ELEV.  
SCALE: NTS



104 STALL EAST ELEV.  
SCALE: NTS



104 STALL SOUTH ELEV.  
SCALE: NTS



105 STALL NORTH ELEV.  
SCALE: NTS



105 STALL EAST ELEVATION  
SCALE: NTS



105 STALL SOUTH ELEV.  
SCALE: NTS



106 STALL NORTH ELEVATION  
SCALE: NTS



106 STALL EAST ELEVATION  
SCALE: NTS



106 STALL SOUTH ELEV.  
SCALE: NTS



107 STALL NORTH ELEVATION  
SCALE: NTS



107 STALL EAST ELEVATION  
SCALE: NTS



107 STALL SOUTH ELEVATION  
SCALE: NTS



ST-01 STAIR NORTH ELEVATION  
SCALE: NTS



ST-01 STAIR EAST ELEV.  
SCALE: NTS



ST-01 STAIR SOUTH ELEVATION  
SCALE: NTS

- INTERIOR ELEVATIONS KEYNOTES
- REPLACE 3 MISSING BOARDS, APPROXIMATELY 25x240. SITE CONFIRM DIMENSIONS. PAINT TO MATCH EXISTING ADJACENT COLOUR (BROWN).





1 108 STALL SOUTH ELEV.  
A10 SCALE: NTS



2 108 STALL WEST ELEVATION  
A10 SCALE: NTS



3 108 STALL NORTH ELEV.  
A10 SCALE: NTS



4 109 STALL SOUTH ELEV.  
A10 SCALE: NTS



5 109 STALL WEST ELEV.  
A10 SCALE: NTS



6 109 STALL NORTH ELEVATION  
A10 SCALE: NTS



7 110 STALL SOUTH ELEV.  
A10 SCALE: NTS



8 110 STALL WEST ELEVATION  
A10 SCALE: NTS



9 110 STALL NORTH ELEV.  
A10 SCALE: NTS



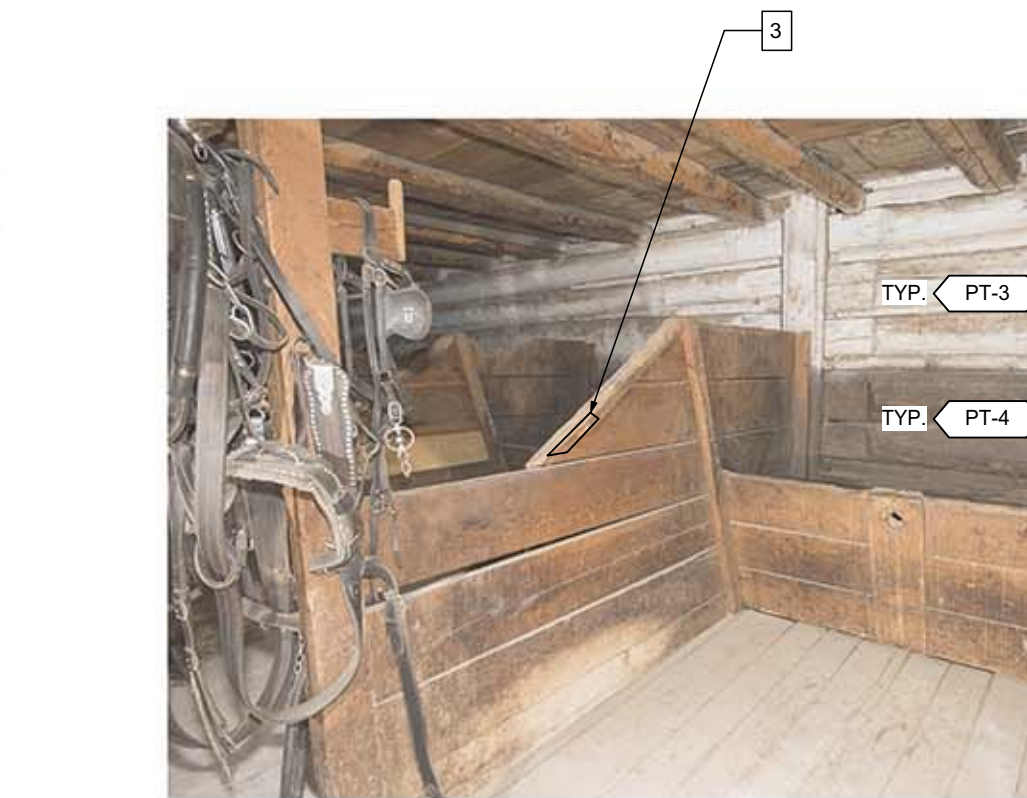
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A10 SCALE: NTS



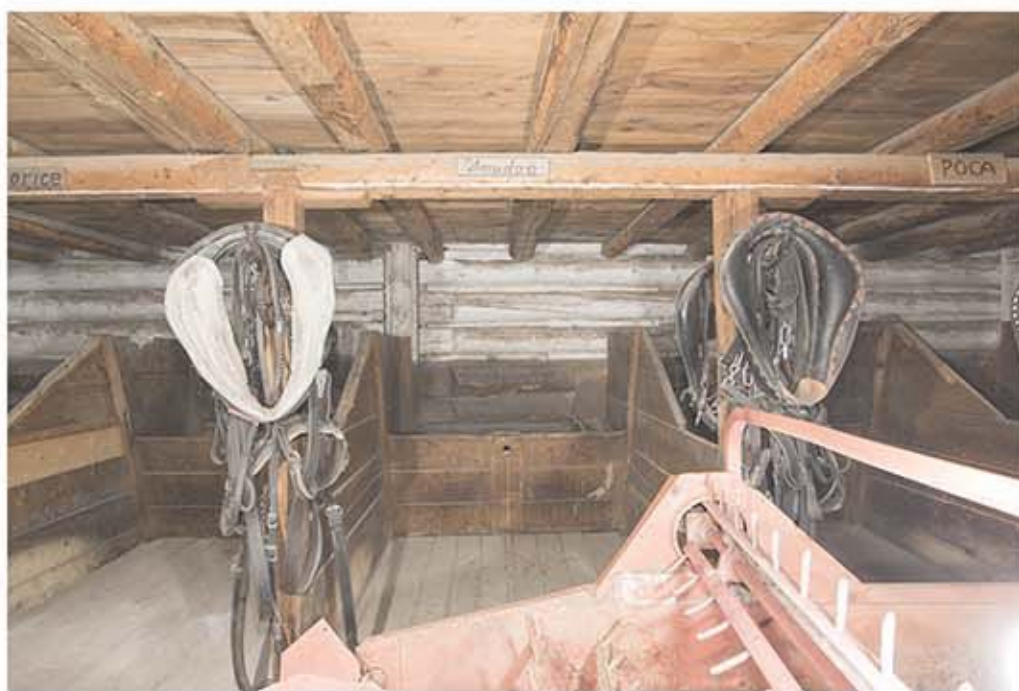
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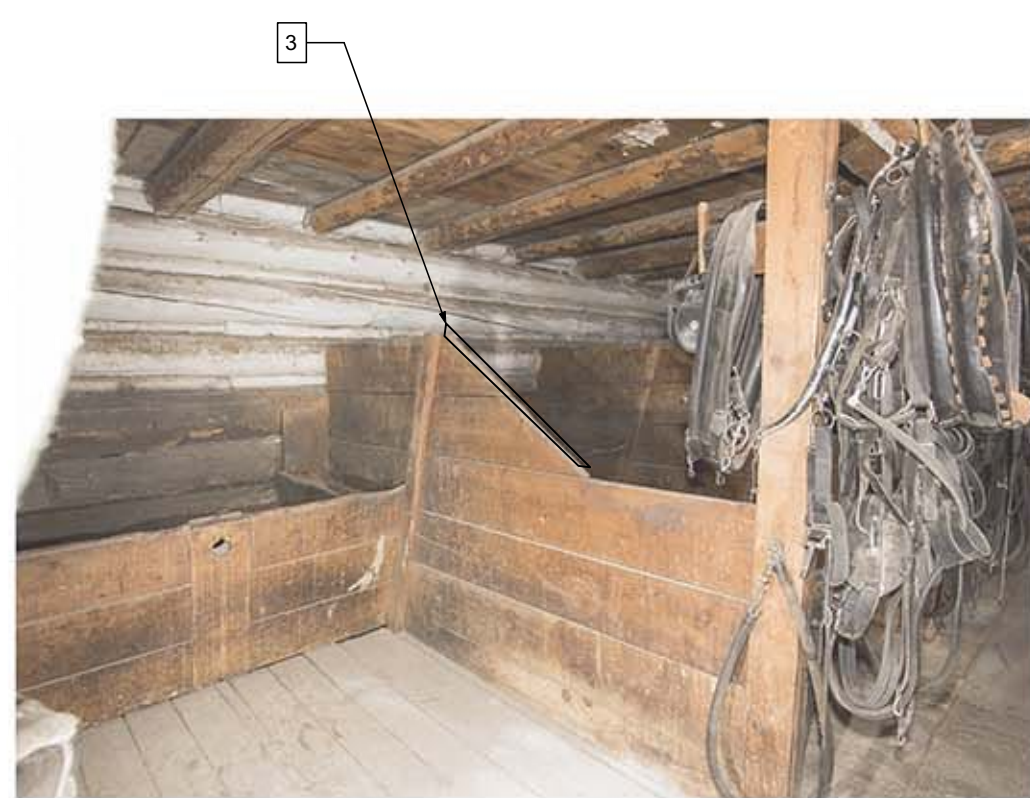
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A10 SCALE: NTS



14 112 STALL WEST ELEV.  
A10 SCALE: NTS



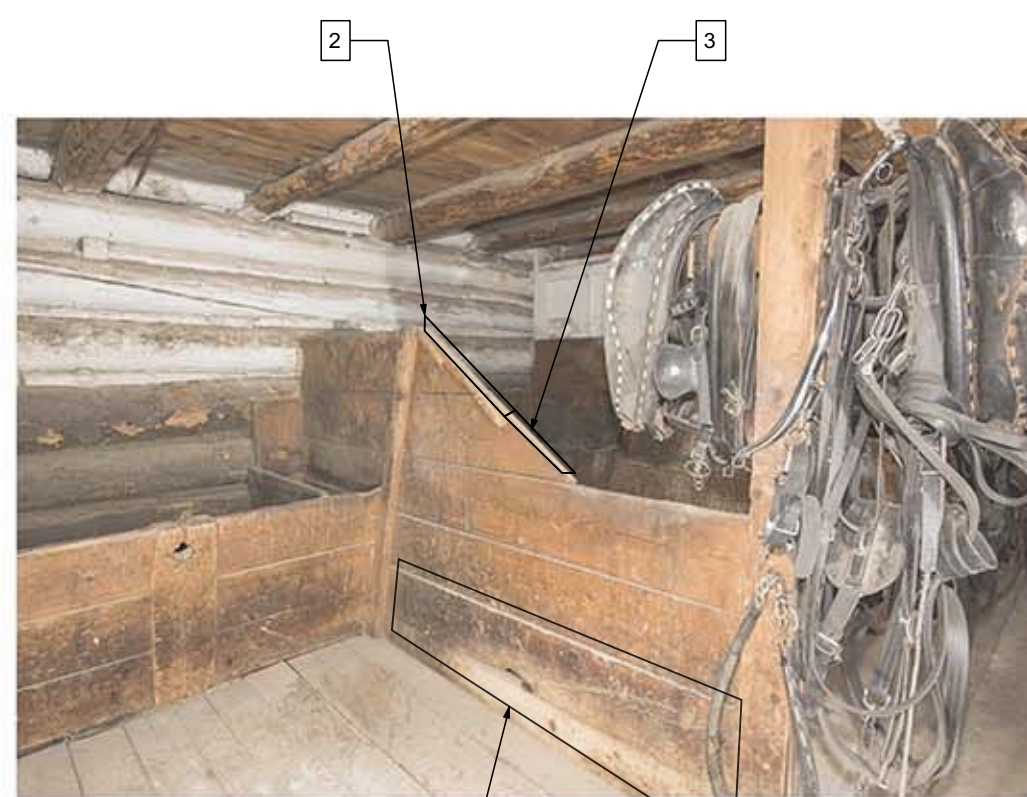
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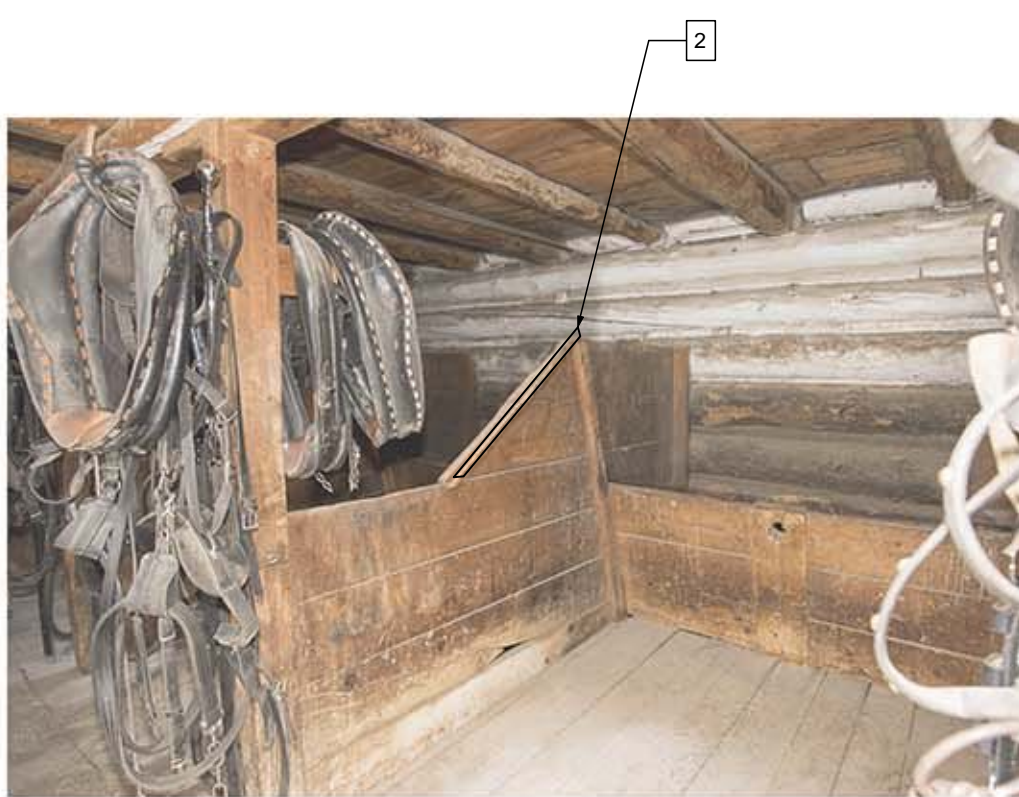
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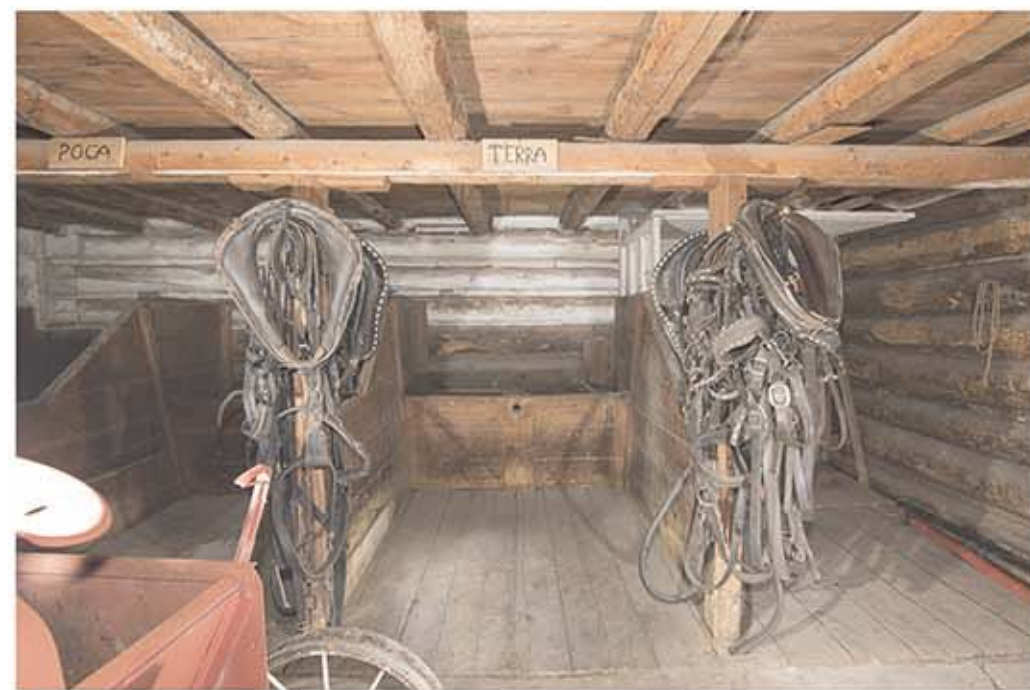
17 113 STALL WEST ELEV.  
A10 SCALE: NTS



18 113 STALL NORTH ELEV.  
A10 SCALE: NTS



19 114 STALL SOUTH ELEV.  
A10 SCALE: NTS



20 114 STALL WEST ELEV.  
A10 SCALE: NTS



21 114 STALL NORTH ELEV.  
A10 SCALE: NTS



22 115 STALL SOUTH ELEV.  
A10 SCALE: NTS



23 115 STALL WEST ELEV.  
A10 SCALE: NTS



24 115 STALL NORTH ELEV.  
A10 SCALE: NTS

**INTERIOR ELEVATIONS KEYNOTES**

1. REPLACE EXISTING 125x240 BOARD WITH NEW. PAINT PT-04 (BROWN) TO MATCH EXISTING ADJACENT
2. FASTEN LOOSE PIECE. MATCH FASTENERS TO EXISTING
3. REINSTATE MISSING WOOD PIECE. MATCH EXISTING FROM OTHER STALLS. SITE CONFIRM DIMENSIONS. WHERE PARTIAL EXISTING IS PRESENT, SPLICE NEW TO EXISTING.

**INTERIOR ELEVATIONS NOTES:**

1. ALL INTERIOR WALLS TO BE WASHED, HAND BRUSH WITH SOAP AND WATER. EXISTING PAINT AND WHITEWASH FINISHES ARE TO REMAIN. PROTECT AS REQUIRED DURING CLEANING PROCESS.
2. ALL NEW SAWN WOOD POLES TO BE PAINTED TO MATCH ADJACENT EXISTING COLOUR, EITHER PT-03 (WHITE) OR PT-04 (BROWN). PAINT POLES PRIOR TO INSTALLATION.
3. ALL NON-FIXED FURNITURE AND ITEMS IN THE INTERIOR OF THE WORKHORSE BARN WILL BE REMOVED BY PARKS CANADA AGENCY PRIOR TO SITE MOBILIZATION.
4. REFER TO FLOOR PLANS FOR FLOOR REPAIR/REPLACEMENT

FINISHES SCHEDULE	
SYMBOL	DESCRIPTION
PT-1	PAINT 1 - RED
PT-2	PAINT 2 - WHITE, EXTERIOR
PT-3	PAINT 3 - WHITE, INTERIOR
PT-4	PAINT 4 - BROWN, INTERIOR

NOTE: SPECIFIC COLOUR WILL BE PROVIDED BY THE DEPARTMENTAL REPRESENTATIVE.  
REFER TO SPEC.



1X1 ARCHITECTURE INC.  
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ISSUED PURSUANT TO THE  
ARCHITECTS ACT OF ALBERTA

| x | architecture inc.

100 First Street, Suite 101 Winnipeg, Manitoba R2C 1C7 204-318-2010

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Revision	Description	Date
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**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

Project	Projet
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**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

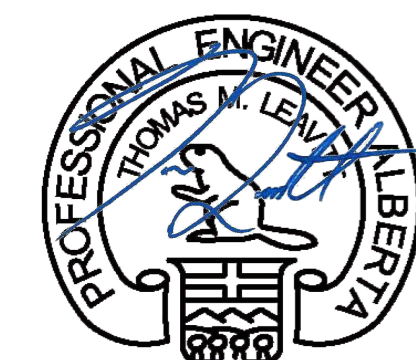
Designed by <b>K.KROECKER</b>	Conçu par
Drawn by <b>K.KROECKER</b>	Dessiné par
Approved by <b>G.GROSS</b>	Approuvé par
PWGSC Project Manager <b>G.SPENCE</b>	Administrateur de Projets TPSGC
Drawing title <b>INTERIOR ELEVATIONS</b>	Titre du dessin

Project no./No. du projet <b>R.083678.001</b>	Drawing no./No. du dessin <b>A10 OF XX</b>	Revision no. <b>0</b>
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## FOR TENDER

- GENERAL NOTES
- EX SURVEY INFORMATION PROVIDED BY OTHERS.
  - ALL ELEVATIONS NOTED ARE FINISHED GRADE UNLESS OTHERWISE NOTED.
  - EXISTING GRADE POINT CODES INDICATED AS FOLLOWS:
    - GA - GRAVEL
    - CO - CONCRETE



April 29, 2019

PERMIT TO PRACTICE  
MPE ENGINEERING LTD.  
PERMIT NUMBER: P 3680  
The Association of Professional  
Engineers and Geoscientists of Alberta

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Revision	Description	Date

Client client

Project Proj

**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

**2018-2019  
LONGVIEW, ALBERTA**

Designed by Conçu par

D.V.

Drawn by Dessiné par

D.V.

Approved by Approuvé par

PWGSC Project Manager Administrateur de Projets TPSCG

Drawing title Titre du dessin

**CIVIL  
SITE  
PLAN**

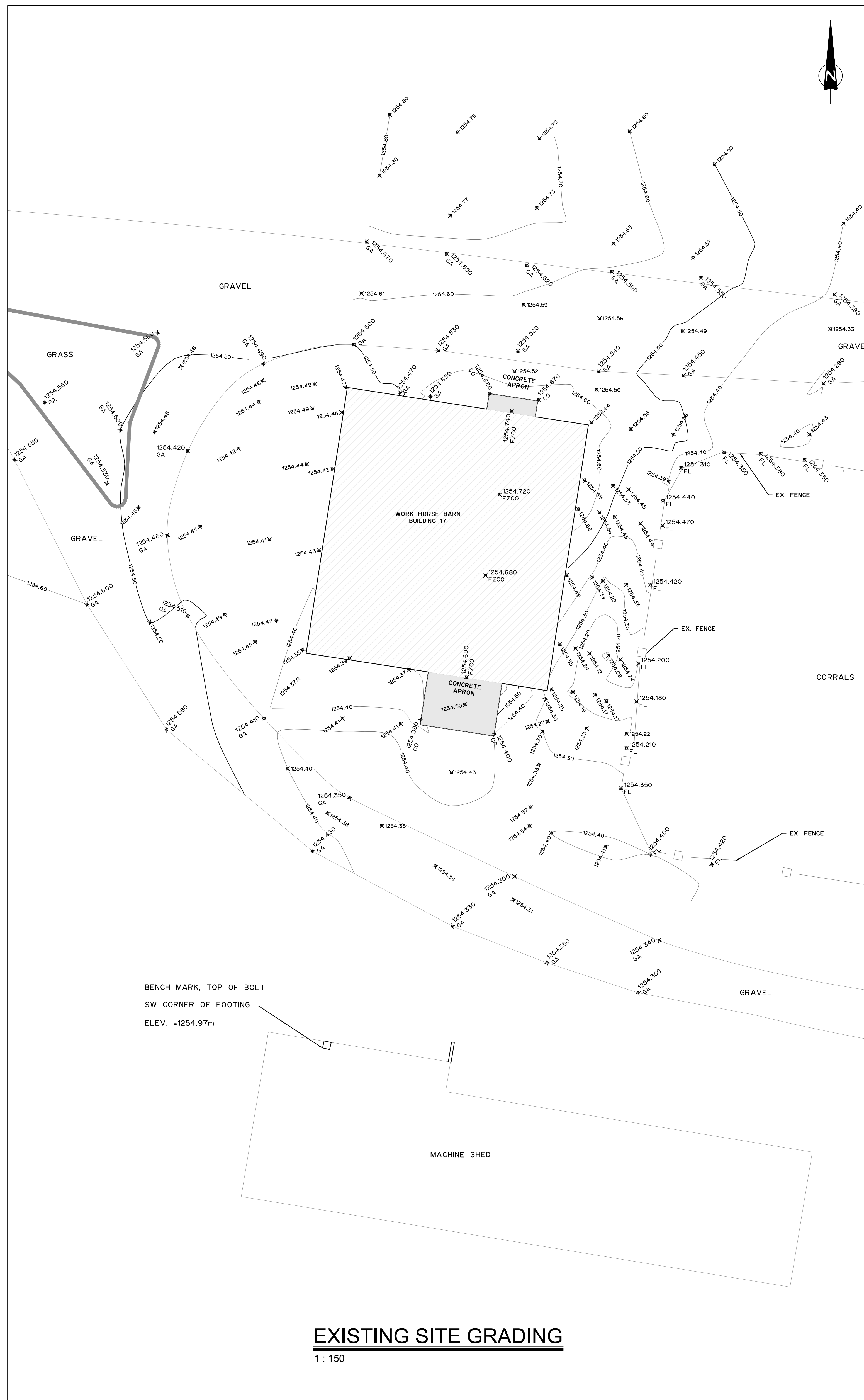
Project no./No. du projet Drawing no./No. du dessin Revision no.

**R.083678.001**

**C1**

OF 1

**1**





# BAR U RANCH N.H.S.C. - WORK HORSE BARN

## LONGVIEW, ALBERTA

### Structural Drawings

STRUCTURAL CONSTRUCTION NOTES SUMMARY - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION:

- REFER TO 'EX' DRAWINGS FOR EXISTING CONSTRUCTION INFORMATION. BUILDING ALIGNMENT AND DIMENSIONS MAY VARY FROM THE DRAWINGS AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. SITE CONDITIONS WILL ALWAYS TAKE PRECEDENT. ANY DISCREPANCIES FOUND ON SITE OR WITHIN DRAWING SETS MUST BE COMMUNICATED TO THE DEPARTMENTAL REPRESENTATIVE.
- EXISTING CONDITIONS MUST BE THOROUGHLY REVIEWED AND DOCUMENTED PRIOR TO LIFTING AND/OR MOVING OF STRUCTURE TO ACCOMMODATE SHORING AND BRACING DESIGN AND INSTALLATION, AND TO AVOID DAMAGE TO EXISTING STRUCTURE.
- THIS STRUCTURE HAS BEEN EVALUATED USING THE NATIONAL BUILDING CODE 2015 AND COMMENTARY L. SEISMIC EVALUATION IS NOT PART OF PROJECT SCOPE.
- DESIGN LOADS (SPECIFIED):
  - DEAD LOAD - 0.2 kPa
  - LIVE LOAD FOR LOFT FLOOR - 3.6 kPa; INCLUDING PERSONS, HAY, AND EQUIPMENT.
  - LIVE LOAD FOR MAIN FLOOR (WEST ADDITION) - 4.8 kPa
  - UNBALANCED WIND LOAD - 0.88 kPa
  - SNOW LOAD - 1.3 kPa
- PER NBCC COMMENTARY L, REDUCED LOAD FACTORS:
  - DEAD LOAD - 1.15
  - LIVE LOAD - 1.2
  - WIND LOAD - 1.2
  - SNOW LOAD - 1.3
- CONSTRUCTION LOADS MUST NOT BE IMPOSED ON THE STRUCTURE IN EXCESS OF THE SPECIFIED LOADS.
- STRUCTURAL DRAWINGS DESCRIBE THE COMPLETED STRUCTURE ONLY AND DO NOT INCLUDE ELEMENTS WHICH MAY BE NECESSARY FOR TEMPORARY WORKS AND SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL REQUIRED TEMPORARY WORKS SUCH AS FORM-WORK, BRACING, SHORING, ETC, AND FOR THE SAFETY IN AND AROUND THE JOBSITE DURING CONSTRUCTION.
- THE CONTRACTOR IS TO ENGAGE A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ALBERTA TO DESIGN THE BRACING, SHORING, STABILIZATION, LIFTING/MOVING, PROTECTION AND THE SUBSEQUENT LOWERING AND SECURING ONTO THE NEW FOUNDATION FOR:
  - THE WEST ADDITION SEPARATION FROM THE MAIN BARN AND TEMPORARY MOVING TO AN ADJACENT LOCATION DESIGNATED BY THE DEPARTMENTAL REPRESENTATIVE IN ORDER TO PROVIDE ACCESS TO THE MAIN BARN AND ITS FOUNDATION.
  - THE LIFTING OF THE MAIN BARN, WHICH MAY BE MOVED TO AN ADJACENT LOCATION DESIGNATED BY THE DEPARTMENTAL REPRESENTATIVE, IN ORDER TO PROVIDE ACCESS TO FOUNDATION AND RELATED WORK.
    - THE LIFTING OF MAIN BARN IS TO BE CARRIED OUT IN A MANNER AND EXTENT TO ENSURE ADEQUATE AND SAFE ACCESS FOR EQUIPMENT TO PERFORM WORK ON THE BUILDING PERIMETER, INTERIOR, AND ALL WALLS, COLUMNS AND FOUNDATIONS DESIGNATED FOR REPLACEMENT OR REMEDIATION.
    - AT NORTH WALL OF MAIN BARN, FAUX LOG PARGING TO RECEIVE SPECIFIED TREATMENT MEASURE PRIOR TO LIFTING AND/OR MOVING BUILDING. REFER TO SPECIFICATIONS.
    - TEMPORARY SHORING FOR THE WALL LOG REMOVAL AND REPLACEMENT TO BE INCLUDED IN THE ENGINEER'S SUBMISSION.
    - THE MAIN BARN CORNERS IN PLAN SHALL BE MAINTAINED AND LEVELED IN THE FINAL CONFIGURATION OF THE NEW PERMANENT FOUNDATION.
  - CONTRACTOR'S ENGINEER IS TO BE PRESENT FOR ALL LIFTING WORK.
- THE LIFT, MOVING AND PROTECTION PLAN IS TO BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW. THE ENGINEER ENGAGED IS TO CARRY OUT SITE REVIEW FOR CONFORMANCE OF THE PLAN. TEMPORARY BRACING AND SHORING MUST BE DESIGNED AND INSTALLED WITH MINIMUM IMPACT ON WOOD COMPONENTS.
- CONTRACTOR TO ENGAGE AN ARCHAEOLOGIST CERTIFIED IN THE PROVINCE OF ALBERTA TO MONITOR THE EXCAVATION ACTIVITIES. ALLOW TIME IN SCHEDULE FOR ARCHAEOLOGICAL ASSESSMENT AND RECOVERY OF ARTIFACTS.
- ALL REMOVED COMPONENTS ARE TO BE CATALOGUED, PROTECTED, AND STORED AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO THE LIFT AND ARE TO BE REINSTATED ONCE STRUCTURES ARE IN PLACE ON THE NEW FOUNDATION.
- REFER TO DRAWINGS FOR APPROXIMATE LOCATION OF WOOD REPAIR/REPLACEMENT WORK. REVIEW LOCATIONS WITH DEPARTMENTAL REPRESENTATIVE IN ADVANCE. DEPARTMENTAL REPRESENTATIVE WILL CONDUCT FURTHER TESTING DURING CONSTRUCTION TO CONFIRM PRECISE LOG REPAIR/REPLACEMENT LOCATIONS. ESTIMATED REPAIR/REPLACEMENT QUANTITIES ARE INCLUDED IN THE UNIT RATE TABLE AND MAY BE GREATER THAN THAT SHOWN ON DRAWINGS S2-S4.
- ALL NEW TIMBER STRUCTURAL ELEMENTS SUCH AS SPLICED PIECES, JOISTS, LOGS, COLUMNS, ARE TO BE DATE STAMPED FOLLOWING THE DESIGNATED METHODOLOGY DETERMINED THROUGH A MOCK-UP PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR MOCK-UP SCHEDULE.
- DO NOT CUT OR DRILL ANY OPENINGS OR HOLES INTO STRUCTURAL MEMBERS WITHOUT OBTAINING PRIOR WRITTEN PERMISSION FROM THE DEPARTMENTAL REPRESENTATIVE. DO NOT CUT, DRILL OR OTHERWISE MODIFY DECKING, JOISTS, BEAMS, STUDS OR BRACING, ETC, WITHOUT THE SPECIFIC WRITTEN CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.
- ANY DAMAGES TO EXISTING BUILDING AND MATERIALS MUST BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE IMMEDIATELY AND REPAIRED AT THE CONTRACTORS EXPENSE USING CONSERVATION TREATMENTS REVIEWED AND ACCEPTED BY THE DEPARTMENTAL REPRESENTATIVE.
- EXISTING STRUCTURE FOUNDATION MATERIALS TO BE REMOVED. ONLY STONE UNITS TO BE RETAINED FOR REUSE. STONE UNITS OF THE BUILDING FOUNDATION AND THOSE THAT ARE DISCOVERED DURING WORK FOR THE NEW FOUNDATION MUST BE PROTECTED, CAREFULLY PHOTOGRAPHED WITH RESPECT TO DIMENSIONS AND POSITION, STORED AND PROTECTED ON SITE, AND THEN RE-LAID TO SUIT IN THE NEW FOUNDATION TO ACCEPTANCE OF THE DEPARTMENTAL REPRESENTATIVE. REFER TO DETAILS. ALLOW FOR REPLACEMENT IN KIND OF DETERIORATED STONE UNITS. REFER TO UNIT PRICE TABLE FOR ESTIMATED QUANTITIES OF NEW STONE REQUIRED.
- UPON COMPLETION OF STRUCTURAL WORK, THE INTERIOR OF THE STRUCTURE IS TO BE AIR PRESSURE CLEANED AND VACUUMED TO REMOVE DUST, DIRT, AND ANIMAL DROPPINGS ETC. FROM RAFTERS, COLLAR TIES, TRUSS MEMBERS, BRACING, WALLS AND ALL INTERIOR SURFACES, FOLLOWING HEALTH AND SAFETY REQUIREMENTS. REFER TO ARCHITECTURAL FOR FINISH TREATMENTS.

GENERAL NOTES:

- THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF. DEPARTMENTAL REPRESENTATIVES MUST BE INFORMED IN ADVANCE OF SITE VISITS. REFER TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
- THE DRAWINGS REPRESENT AN EXISTING BUILDING. BUILDING ALIGNMENT AND DIMENSIONS MAY VARY FROM THE DRAWINGS AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. SITE CONDITIONS WILL ALWAYS TAKE PRECEDENT.
- REFER TO 'EX' DRAWING SET FOR ADDITIONAL DIMENSIONING. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
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Heritage Conservation Services

Architecture and Engineering Services  
Real Property Branch  
Public Services and Procurement Canada

Services de la Conservation du Patrimoine

Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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Revision	Description	Date
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Client client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project Projet

LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by Conçu par

K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by Dessiné par

D. PATEL

Approved by Approuvé par

D. STEPHENSON, P.ENG

PWOSC Project Manager

Administrateur de Projets TPSPC

G. SPENCE

Drawing Title Titre du dessin

GENERAL CONSTRUCTION  
NOTES

Project no./No. du projet

R.083678.001

Drawing no./No. du dessin

S1

OF 16

Revision no.



REAL PROPERTY SERVICES  
Western Region  
SERVICES IMMOBILIERS  
Région de l'ouest

GENERAL NOTES:

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF. DEPARTMENTAL REPRESENTATIVES MUST BE INFORMED IN ADVANCE OF SITE VISITS. REFER TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
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PUBLIC SERVICES AND  
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(PSPC)

Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
K. TYLOR, EIT / D. STEPHENSON, P.ENG  
Drawn by  
D. PATEL  
Approved by  
D. STEPHENSON, P.ENG  
PWSGC Project Manager  
G. SPENCE

Drawing title  
NORTH AND SOUTH  
ELEVATIONS LOG  
REPAIR / REPLACEMENT

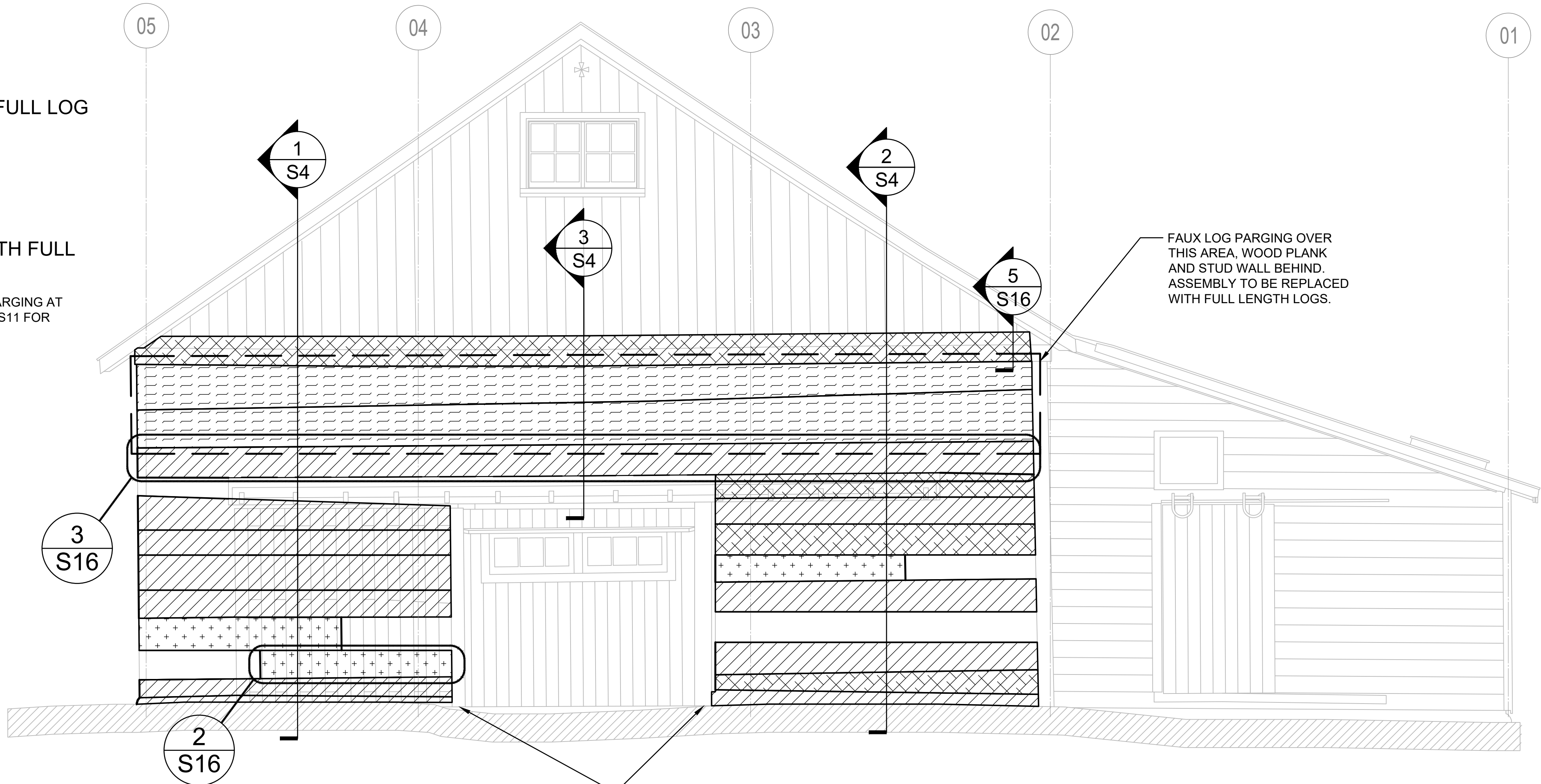
Project no./No. du projet  
R.083678.001  
Drawing no./No. du dessin  
S2  
Revision no.  
OF 16

LEGEND FOR LOG WORK

- REPLACE FULL LOG WITH FULL LOG
- REFACE LOG
- SPLICE LOG
- REPLACE PARTIAL LOG WITH FULL LOG

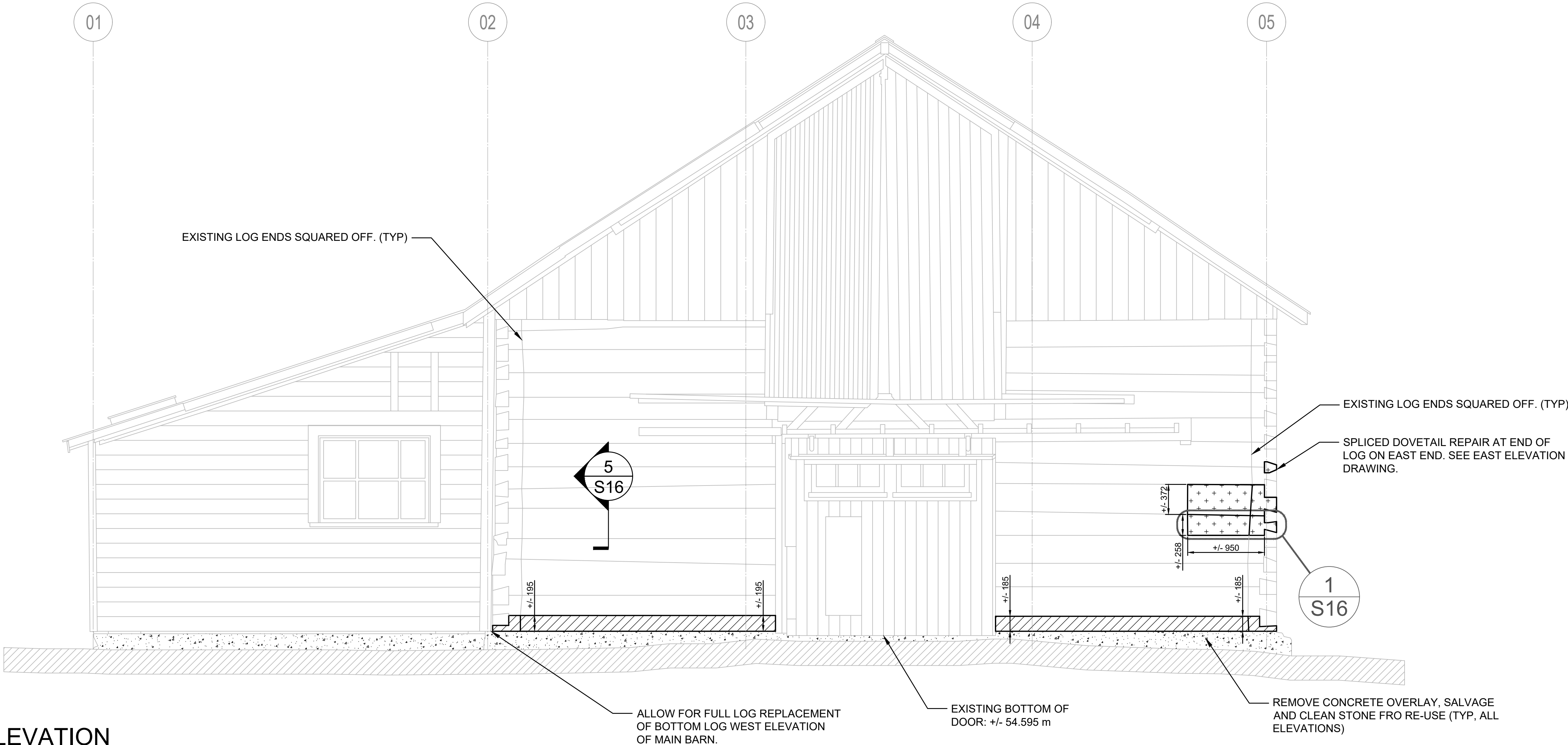
NOTE: THESE ARE SHOWN OVER FAUX PARGING AT NORTH ELEVATION. REFER TO DRAWING S11 FOR DEPICTION BEHIND FAUX PARGING.

1  
S2  
NORTH ELEVATION  
1 : 30



VERIFY CONDITION OF BASE OF WOOD DOOR FRAME JAMB, BOTH SIDES SUBSEQUENT TO AISLE SLAB REMOVAL. ALLOW FOR DUTCHMAN REPAIR AT BASE. +/- 150 mm HEIGHT AT NORTH AND SOUTH ELEVATIONS. REFER TO ARCHITECTURAL.

2  
S2  
SOUTH ELEVATION  
1 : 30



EXISTING LOG ENDS SQUARED OFF. (TYP)

EXISTING LOG ENDS SQUARED OFF. (TYP)

SPLICED DOVETAIL REPAIR AT END OF LOG ON EAST END. SEE EAST ELEVATION DRAWING.

ALLOW FOR FULL LOG REPLACEMENT OF BOTTOM LOG WEST ELEVATION OF MAIN BARN.

EXISTING BOTTOM OF DOOR: +/- 54.595 m

REMOVE CONCRETE OVERLAY, SALVAGE AND CLEAN STONE FRO RE-USE (TYP, ALL ELEVATIONS)



GENERAL NOTES:

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PUBLIC SERVICES AND  
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(PSPC)

Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by  
D. PATEL

Approved by  
D. STEPHENSON, P.ENG

PWOSC Project Manager  
G. SPENCE

Administrateur de Projets TPSPC

Drawing Title  
EAST AND WEST  
ELEVATIONS LOG  
REPAIR / REPLACEMENT

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	S3	OF 16

LEGEND FOR LOG WORK

REPLACE FULL LOG  
WITH FULL LOG

REFACE LOG

SPLICE LOG

REPLACE PARTIAL LOG  
WITH FULL LOG

FILL GAP BETWEEN JOIST ENDS  
AND LOGS WITH WOOD WEDGES  
AND DAUBING FROM EXTERIOR AND  
INTERIOR TO RESTORE WEATHER  
TIGHT SEAL AND FIT AS PER EXISTING  
(TYPICAL FOR ALL JOIST ENDS, EAST  
AND WEST ELEVATIONS).

EXISTING GRADE: +/- 54.640 m.  
REFER TO ARCH. DWGS. FOR  
NEW GRADES ALL AROUND.

EXISTING LOG ENDS SQUARED OFF.

REMOVE CONCRETE OVERLAY AND ANY WOOD REMNANTS  
BEHIND AND REPLACE WITH NEW WOOD LOG. LOG  
DIAMETER TO MATCH EXISTING AND BOTTOM PROFILE CUT  
TO SUIT TOP OF NEW FOUNDATION. SALVAGE AND CLEAN  
STONE FOR REUSE (TYP, ALL LOCATIONS)

REMOVE CONCRETE. SPLICE INTERMEDIATE  
POST TO EXTEND POST HEIGHT TO SUIT NEW  
ELEVATION. SEE DETAIL 2/S12.

WOOD LOG  
REMNANTS BEHIND.

LOG ENDS SQUARED  
OFF (TYP).

LOG ENDS SQUARED OFF.

SPLICED DOVETAIL REPAIR AT END  
OF LOG ON SOUTH END. SEE SOUTH  
ELEVATION DRAWING.

EXISTING TOP OF STONE  
ELEVATION: +/- 54.620 m

EXISTING GRADE: +/- 54.390 m

1 EAST ELEVATION  
S3 1 : 30

NOTES:

1. REFER TO DETAIL DRAWINGS S11, S15, S16 AND SPECIFICATIONS FOR LOG REPAIR/REPLACEMENT DETAILS.
2. LOG REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE. LOCATIONS AND LENGTHS WILL BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.
3. LINES INDICATE DIVISION BETWEEN LOGS. REFER TO 'EX' DRAWING PHOTO ELEVATIONS FOR CHINKING/DAUBING BETWEEN LOGS.
4. CHINKING AND DAUBING TO BE REPLACED OVER ENTIRE EXTERIOR WITH WOOD WEDGE RESETTING OR REPLACEMENT; REFER TO ARCHITECTURAL DRAWINGS. LOG DIAMETERS INDICATED VARY ALONG LENGTHS OF LOGS AND ARE TO BE CONFIRMED ON SITE BY CONTRACTOR. BOTTOM LOGS TO BE CUT FROM WHOLE LOGS, WHERE APPLICABLE.
5. REFER TO DRAWING S4 FOR DEPICTION OF LOGS BEHIND PARGING AND ASSOCIATED REPAIR/REPLACEMENT. CONFIRM LOG WORK WITH DEPARTMENTAL REPRESENTATIVE.
6. SCOPE BASED ON FULL OR PARTIAL REPLACEMENT OF LOGS WITH SEVERE DECAY.
7. CONTRACTOR TO SUBMIT SEQUENCE FOR NORTH WALL LOG REPAIR FOR DEPARTMENTAL REPRESENTATIVE APPROVAL. BASED ON EXTENT OF DECAY, ALLOW FOR CAREFUL, SELECTIVE DISMANTLE AND REBUILDING OF NORTH WALL AS REQUIRED TO PERFORM LOG REPAIR/REPLACEMENT WORK.
8. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FAUX LOG TREATMENT AND REMOVAL IN ADVANCE OF STRUCTURAL WORK.
9. SEE ARCHITECTURAL DRAWINGS FOR WOOD SIDING REPAIRS. (TYP)
10. DEMOLISH EXISTING CONCRETE FOUNDATION AT WEST ADDITION.
11. NUMBER OF DOVETAIL REPLACEMENTS MAY EXCEED WHAT IS ON DRAWING. SEE UNIT RATE TABLE FOR ESTIMATED QUANTITY. TO BE VERIFIED ON SITE.

NOTE: WEST ELEVATION OF MAIN  
BARN SIMILAR TO EAST ELEVATION  
FOR REQUIRED BOTTOM LOG  
REPLACEMENT WORK. SEE EX18,  
EX29 FOR MAIN BARN WEST  
ELEVATION VIEWS.

2 WEST ELEVATION  
S3 1 : 30



GENERAL NOTES:

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A 'CLASSIFIED' BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
2. DEPARTMENTAL REPRESENTATIVES MUST BE INFORMED IN ADVANCE OF SITE VISITS. REFER TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
3. ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by D. PATEL

Approved by D. STEPHENSON, P.ENG

PWOSC Project Manager G. SPENCE

Drawing Title NORTH WALL

CROSS SECTION LOG  
REPAIR / REPLACEMENT

Project no./No. du projet R.083678.001

Drawing no./No. du dessin S4

OF 16



4 NORTH ELEVATION SHOWING INTERIOR STUD WALL  
S4 NTS

WOOD INTERIOR STUD WALL TO BE REMOVED.  
NEW FULL LENGTH LOGS TO BE INSTALLED  
WITH DOVETAIL CONNECTIONS TO SIDE WALLS  
TO MATCH ORIGINAL CONSTRUCTION.

LOFT FLOOR JOIST  
LOFT FLOOR BEAM  
EXTENDS TO POCKET  
IN NORTH WALL

3 EXISTING ATTIC LOG SECTION  
S4 1 : 10

LEGEND FOR LOG WORK (SEE NOTES)

- REPLACE FULL LOG WITH FULL LOG
- REFACE LOG
- SPLICE LOG
- REPLACE PARTIAL LOG WITH FULL LOG

REFER TO DRAWING S11, DETAILS AND SPECIFICATIONS

NOTES:

1. LOGS ARE AN ESTIMATED DEPICTION OF EXISTING NORTH WALL LOGS. REFER TO DRAWING S2 FOR SECTION LOCATIONS AND DRAWING S11 FOR ELEVATION BEHIND FAUX PARGING. SECTIONS INDICATE ASSUMED CONSTRUCTION OF NORTH WALL BEHIND PARGING. DRAWING DEPICTS NEW FOUNDATION AND LOG REPAIRS.
2. FAUX LOG WALL PARGING THICKNESS VARIES ALONG CROSS SECTION OF WALL.
3. SECTIONS SHOW NEW FOUNDATION GRADE BEAM. REFER TO FOUNDATION DETAILS.
4. RETAIN WOOD LOGS REMOVED FOR EXAMINATION WITH DEPARTMENTAL REPRESENTATIVE FOR REUSE OF ANY PORTIONS OF WOOD LOGS IN OTHER LOG REPAIRS.
5. LOG DIAMETERS INDICATED VARY ALONG LENGTHS OF LOGS AND ARE TO BE CONFIRMED ON SITE BY CONTRACTOR. BOTTOM LOGS TO BE CUT FROM WHOLE LOGS, WHERE APPLICABLE. BASED ON SOUTH ELEVATION AND NORTH ELEVATION LOFT, LOG DIAMETERS VARY FROM +/- 250 mm TO +/- 420 mm.
6. BOTTOM LOG AT NORTH AND SOUTH ELEVATIONS ARE SQUARED OFF AT BOTTOM.
7. FLOOR BEAM SITS IN POCKET IN LOG WALL. CONNECTION TO BE VERIFIED ON SITE BY DEPARTMENTAL REPRESENTATIVE.

WOOD PLANK  
SIDING ABOVE

METAL FLASHING.  
REFER TO  
ARCHITECTURAL  
DRAWINGS.

FAUX LOG PARGING.  
REFER TO SPECIFICATIONS.

OUTLINE OF LOGS AND  
JOINTS BEYOND

EXISTING  
10 X 75 (+/-)  
METAL STRAP  
BOLTED TO  
LOGS

EXISTING  
STUD WALL

END LOGS TO BE REMOVED  
FOR NEW FULL LENGTH LOG  
INSTALLATION.

METAL FLASHING. REFER TO  
ARCHITECTURAL  
DRAWINGS

EXPOSE LOG FROM INTERIOR FOR  
DEPARTMENTAL REPRESENTATIVE  
INSPECTION. CONDITION AND  
REPAIR/REPLACE REQUIREMENT TO BE  
DETERMINED DURING CONSTRUCTION;  
UPON ACCESS. UNIT PRICE TABLE ALLOWS  
FOR REPLACEMENT IN ESTIMATED  
QUANTITIES.

WOOD WEDGES (TYP).  
REFER TO ARCHITECTURAL  
DRAWINGS

WOOD WEDGES (TYP).  
REFER TO ARCHITECTURAL  
DRAWINGS

LEAD FLASHING. SEE DRAWING S10

SEE NEW FOUNDATION DESIGN  
DETAILS ON DRAWING S10 (TYP)

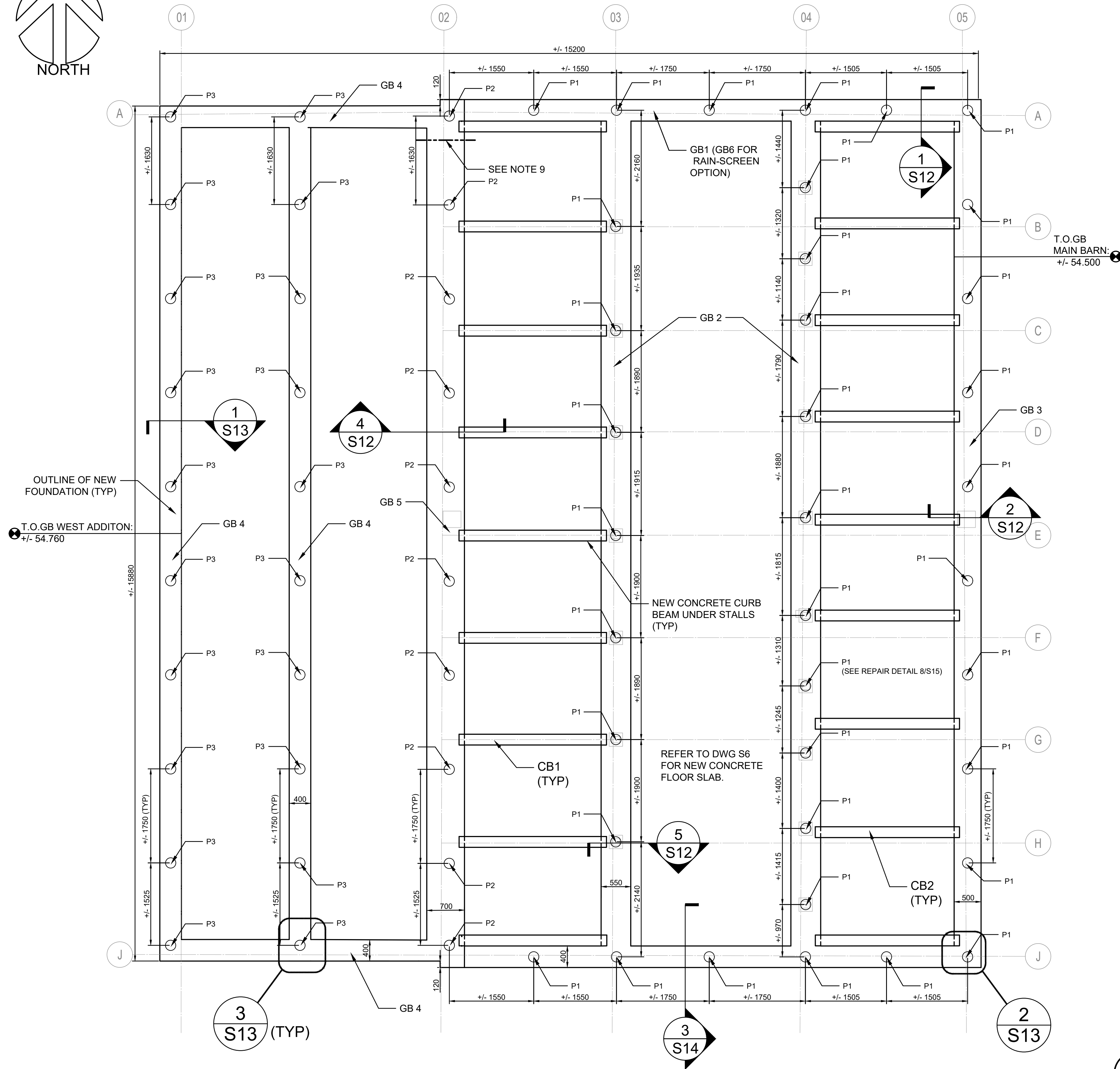
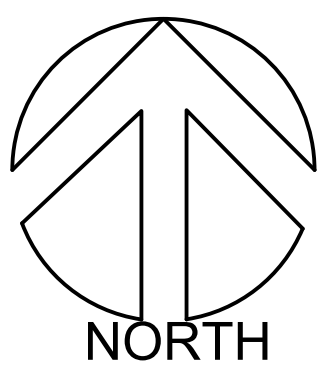
EXISTING STONE MASONRY REINSTATED.  
STONE UNIT SIZES VARY. REFER TO  
FOUNDATION DETAIL 1/S12.

NEW GRADE BEAM (TYP)

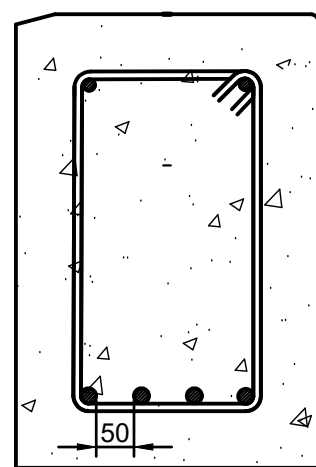
1 NORTH EAST SECTION  
S4 1 : 10

2 NORTH WEST SECTION  
S4 1 : 10

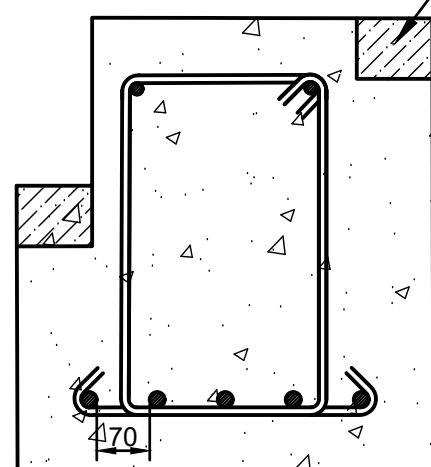




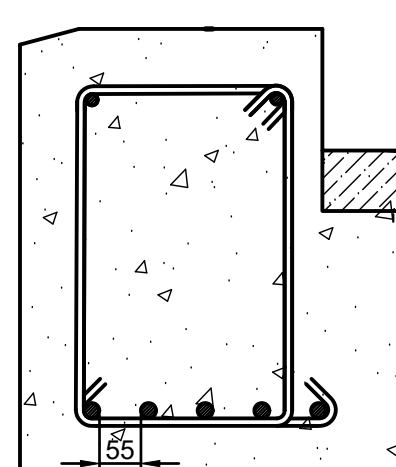
**1**  
**S5** **NEW FOUNDATION PLAN**  
1 : 40



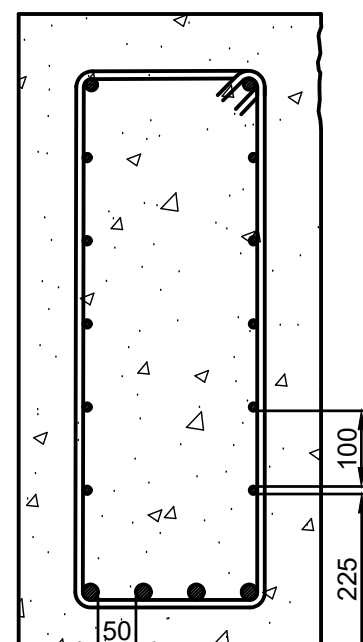
GB1



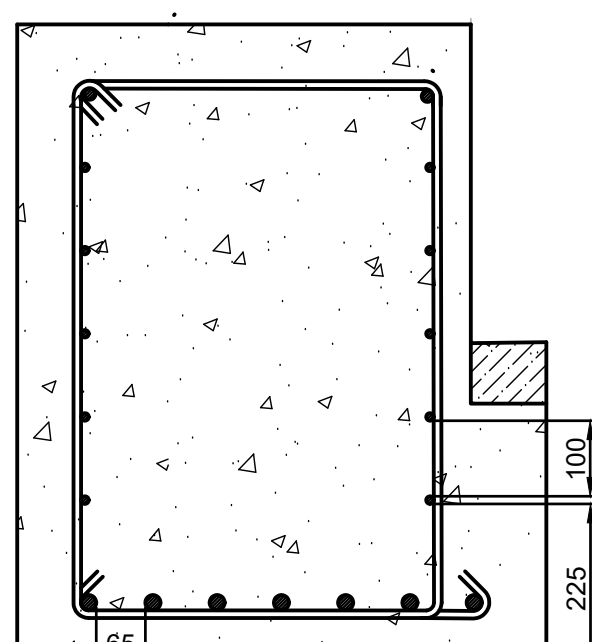
GB2



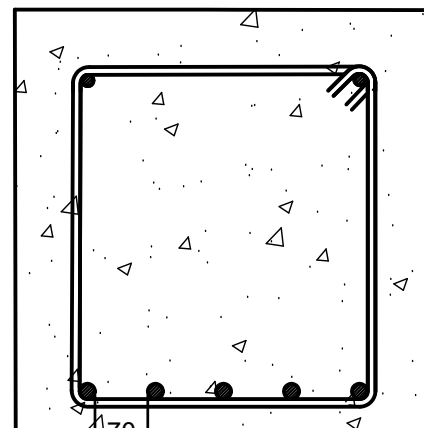
GB3



GB4



GB5



GB6  
(FOR RAIN-SCREEN OPTION)

**3**  
**S5** **GRADE BEAM TYPES**  
1 : 10

**NOTES:**

- ALL REINFORCING EMBEDDED IN CONCRETE GRADE BEAMS SHALL MEET MINIMUM 75 mm COVER. REFER TO SPECIFICATIONS.
- CONFIRM ALL DIMENSIONS ON SITE.
- CONTRACTOR ENGAGED GEOTECHNICAL ENGINEER SHALL PROVIDE WRITTEN CONFIRMATION OF SUITABLE SUBGRADE.
- ALL PILES SHALL BE STEEL PIPE HELICAL TYPE, CORROSION RESISTANT DESIGN. CONTRACTORS PILING ENGINEER SHALL DESIGN PILES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND THE FACTORED LOADS.
- PILES INDICATED THUS P<sub>x</sub> ON PLAN  
P<sub>1</sub> = 60 kN  
P<sub>2</sub> = 110 kN  
P<sub>3</sub> = 40 kN
- REFER TO DRAWING EX31 FOR EXISTING FOUNDATION ELEMENTS. ALL EXISTING FOUNDATION ELEMENTS TO BE REMOVED FOR NEW FOUNDATION INSTALLATION.
- FOUNDATION IS DEPICTED AS SQUARE ON THIS DRAWING. ACTUAL FOUNDATION ALIGNMENT VARIES FROM SQUARE AND IS TO BE VERIFIED AND MATCHED AS REQUIRED FOR CONSTRUCTION OF NEW FOUNDATION.
- ALL EXCAVATION WORK REQUIRES MONITORING BY ARCHAEOLOGIST. REFER TO SPECIFICATIONS.
- PROVIDE ONE +/- 75 mm DIAMETER HOLE THROUGH CONCRETE GRADE BEAM GB5 AS REQUIRED FOR WIRING. PRECISE LOCATION TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO FORMWORK COMPLETION, REBAR PLACEMENT, AND CONCRETE POUR.
- TOP OF GRADE BEAM ELEVATION IS REDUCED OVER WIDTH OF CONCRETE AISLE SLAB AT NORTH & SOUTH ENDS. REFER TO DRAWING S9.

**CONCRETE FOUNDATION SCHEDULE**

	WIDTH	DEPTH	LENGTH	REINFORCING
CB1	200	200	+/- 2740	R/W 2-15M LONGITUDINAL MID.
CB2	200	200	+/- 2680	R/W 2-15M LOGITUDINAL MID.
GB1	400	600	CONT.	R/W 2- 15M TOP & 4-20M BOTTOM CONT. 10M STIRRUPS @ 300 O/C. 3-10M CONT HEF.
GB2	550	600	CONT.	R/W 2- 15M TOP & 5-20M BOTTOM CONT. 10M STIRRUPS @ 300 O/C. 3-10M CONT HEF.
GB3	500	600	CONT.	R/W 2- 15M TOP & 5-20M BOTTOM CONT. 10M STIRRUPS @ 300 O/C. 3-10M CONT HEF.
GB4	400	860	CONT.	R/W 2- 15M TOP & 4-20M BOTTOM CONT. 5-10M SKIN REINFORCEMENT ON EACH SIDE @ 100 SPACING. 10M STIRRUPS @ 300 O/C. 3-10M CONT HEF.
GB5	700	860	CONT.	R/W 2- 15M TOP & 7-20M BOTTOM CONT. 5-10M SKIN REINFORCEMENT ON EACH SIDE @ 100 SPACING. 10M STIRRUPS @ 150 O/C. 3-10M CONT HEF.
GB6	550	600	CONT.	R/W 2- 15M TOP & 5-20M BOTTOM CONT. 10M STIRRUPS @ 300 O/C. 3-10M CONT HEF.

**2**  
**S5** **CONCRETE FOUNDATION SCHEDULE**

**GENERAL NOTES:**

- THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
- DEPARTMENTAL REPRESENTATIVES MUST BE INFORMED IN ADVANCE OF SITE VISITS. REFER TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
- THE DRAWINGS REPRESENT AN EXISTING BUILDING. BUILDING ALIGNMENT AND DIMENSIONS MAY VARY FROM THE DRAWINGS AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. SITE CONDITIONS WILL ALWAYS TAKE PRECEDENT.
- REFER TO 'EX' DRAWING SET FOR ADDITIONAL DIMENSIONING. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
- ALL DRAWINGS USE mm AS DIMENSIONAL UNITS UNLESS OTHERWISE NOTED.



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Revision	Description	Date
Client		client

**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

Project **LONGVIEW, ALBERTA** Proj

2018-2019

**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

Designed by K. TYLOR, EIT / D. STEPHENSON, P.ENG Conçu par

Drawn by D. PATEL Dessiné par

Approved by D. STEPHENSON, P.ENG Approuvé par

PWOSC Project Manager Administrateur de Projets TP50C  
G. SPENCE

Drawing Title Titre du dessin

**NEW FOUNDATION  
PLAN**

Project no./No. du projet **R.083678.001**

Drawing no./No. du dessin **S5**  
OF 16

Revision no.



**GENERAL NOTES:**

1. THE WORKHOUSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. PRESERVATION AND REHABILITATION OF THE WORKHOUSE SHALL PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THAT THE PRINCIPLES OF CONSERVATION BE FOLLOWED BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
2. ALL MEASUREMENTS, READINGS AND RECORDS MUST BE INFORMED IN ADVANCE OF SITE VISITS. REFERS TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
3. ANY DISCREPANCY BETWEEN THE DRAWINGS, THE SPECIFICATIONS AND SITE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECTURAL REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
4. THE DRAWINGS REPRESENT AN EXISTING BUILDING. BUILDING DIMENSIONS AND SPACINGS MAY VARY FROM THE DRAWINGS AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. SITE CONDITIONS WILL ALWAYS TAKE PRECEDENCE.
5. PRIOR TO 10% DRAWING SET FOR ADDITIONAL DIMENSIONING, CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
6. ALL DRAWINGS USE 1/8" = 1' AS DIMENSIONAL UNITS UNLESS OTHERWISE NOTED.



**Heritage Conservation Services**  
Architecture and Engineering Services  
Real Property Branch  
Public Services and Procurement Canada

**Services de la Conservation du Patrimoine**  
Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

Project **LONGVIEW, ALBERTA**

2018-2019

**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

Designed by **K. TYLOR, EIT / D. STEPHENSON, P.ENG** **Conqu**

Drawn by	Described by
D. PATEL	

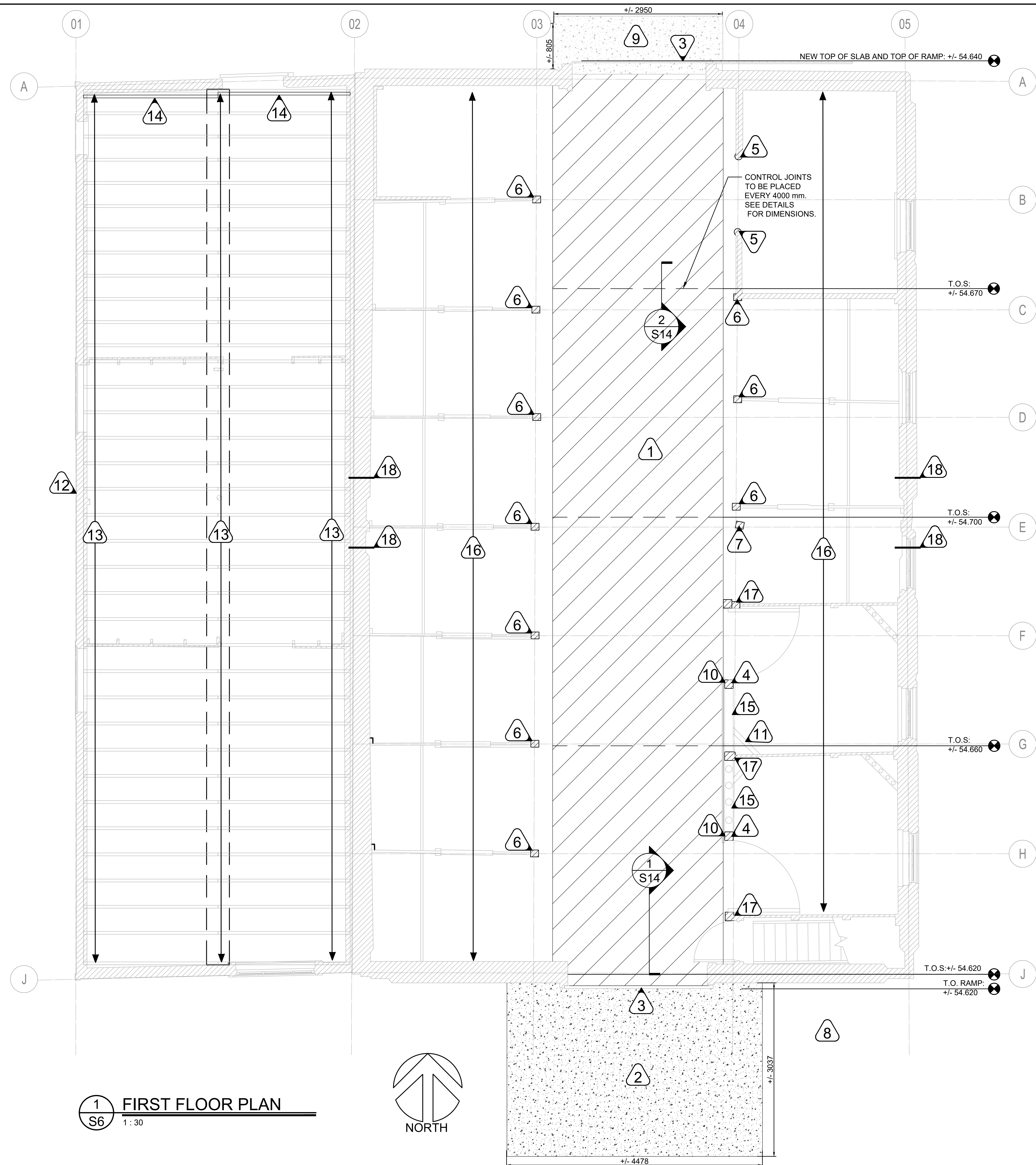
Approved by \_\_\_\_\_ Approved by \_\_\_\_\_  
D. STEPHENSON, P.ENG \_\_\_\_\_

**PWGSC Project Manager** **Administrateur de Projets TI**  
G. SPENCE

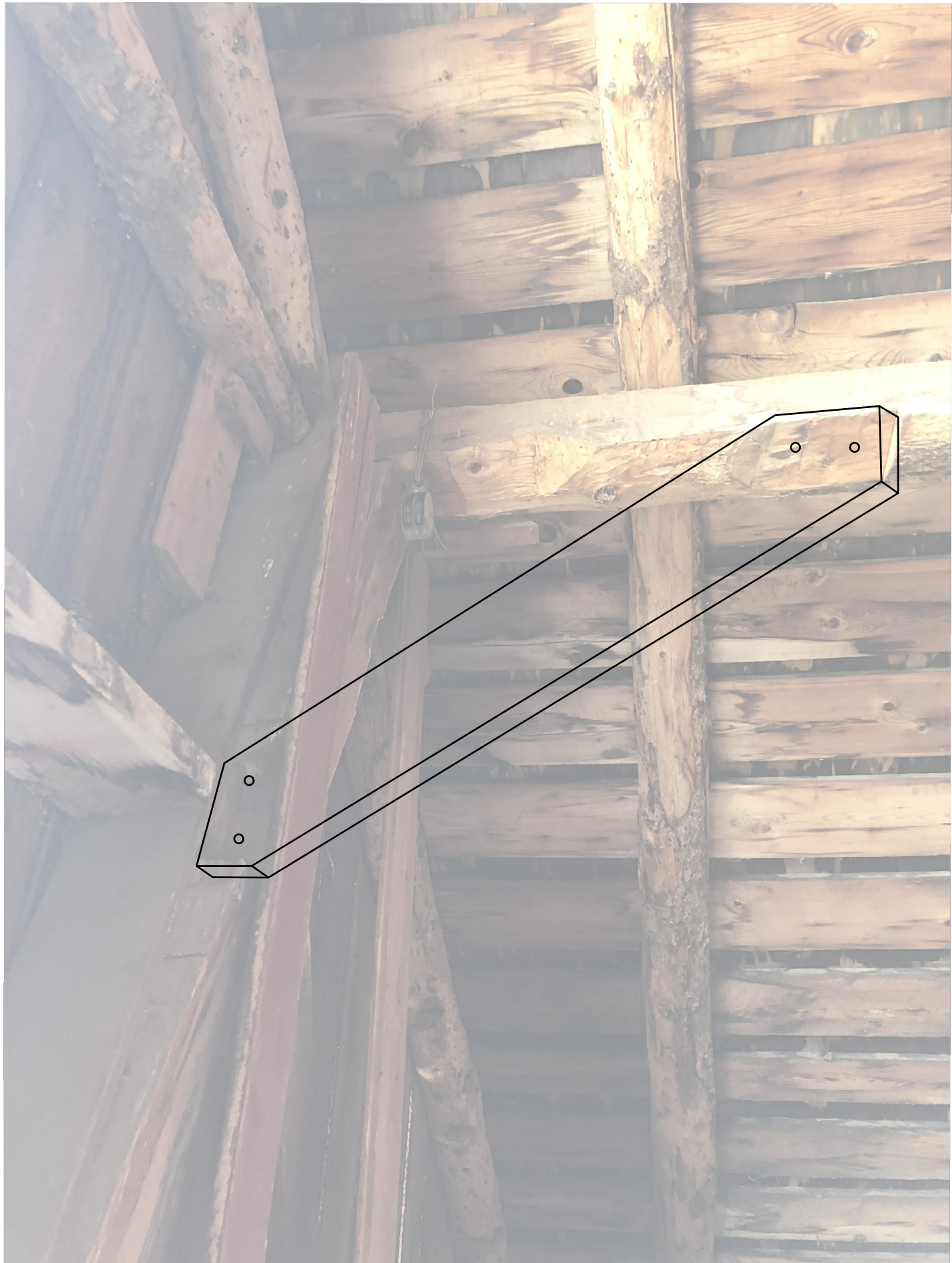
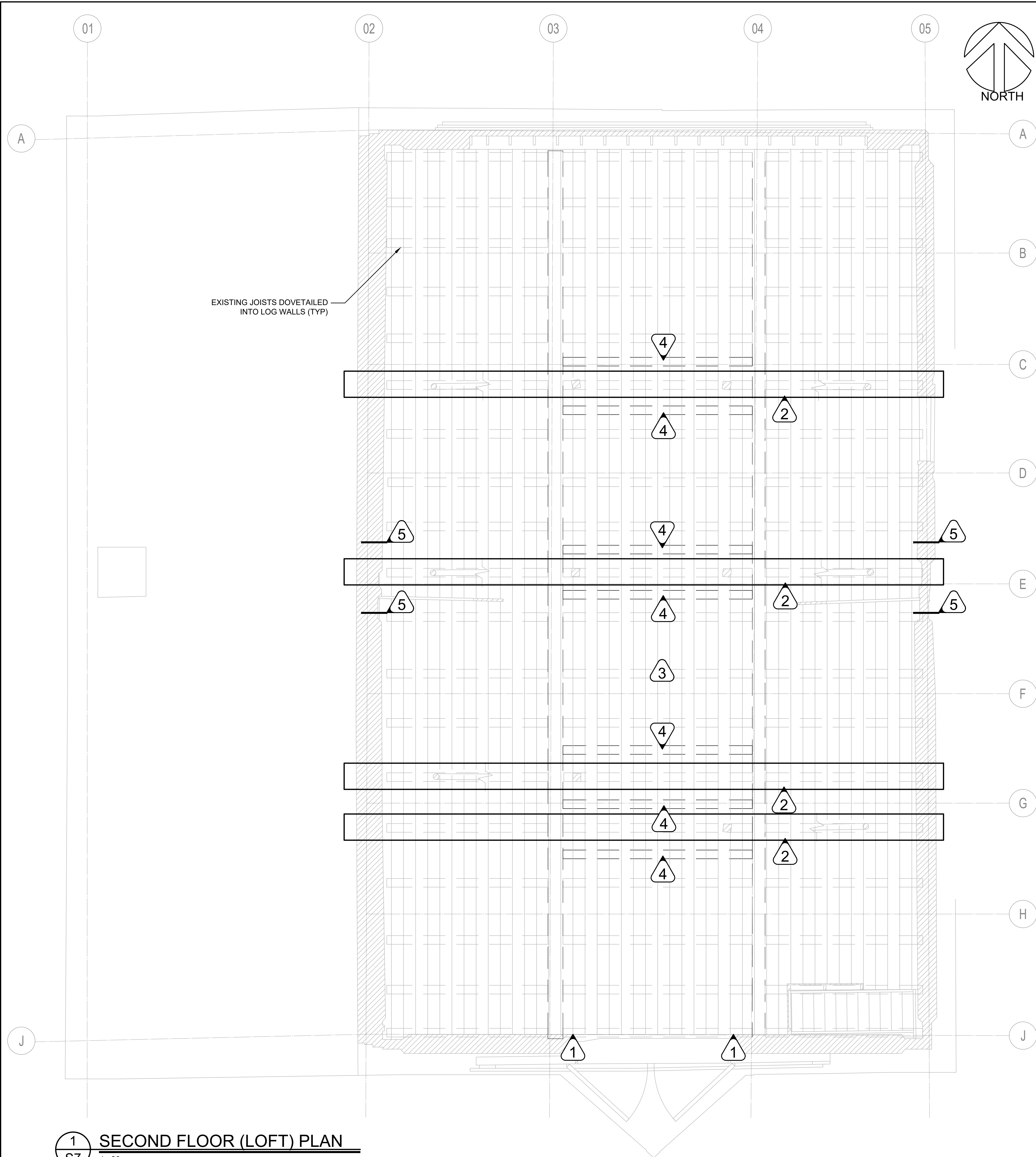
**FIRST FLOOR PLAN  
WOOD COMPONENT REPAIR,  
CONCRETE SLAB**

Project no./No. du projet	Drawing no./No. du dessin	Revision
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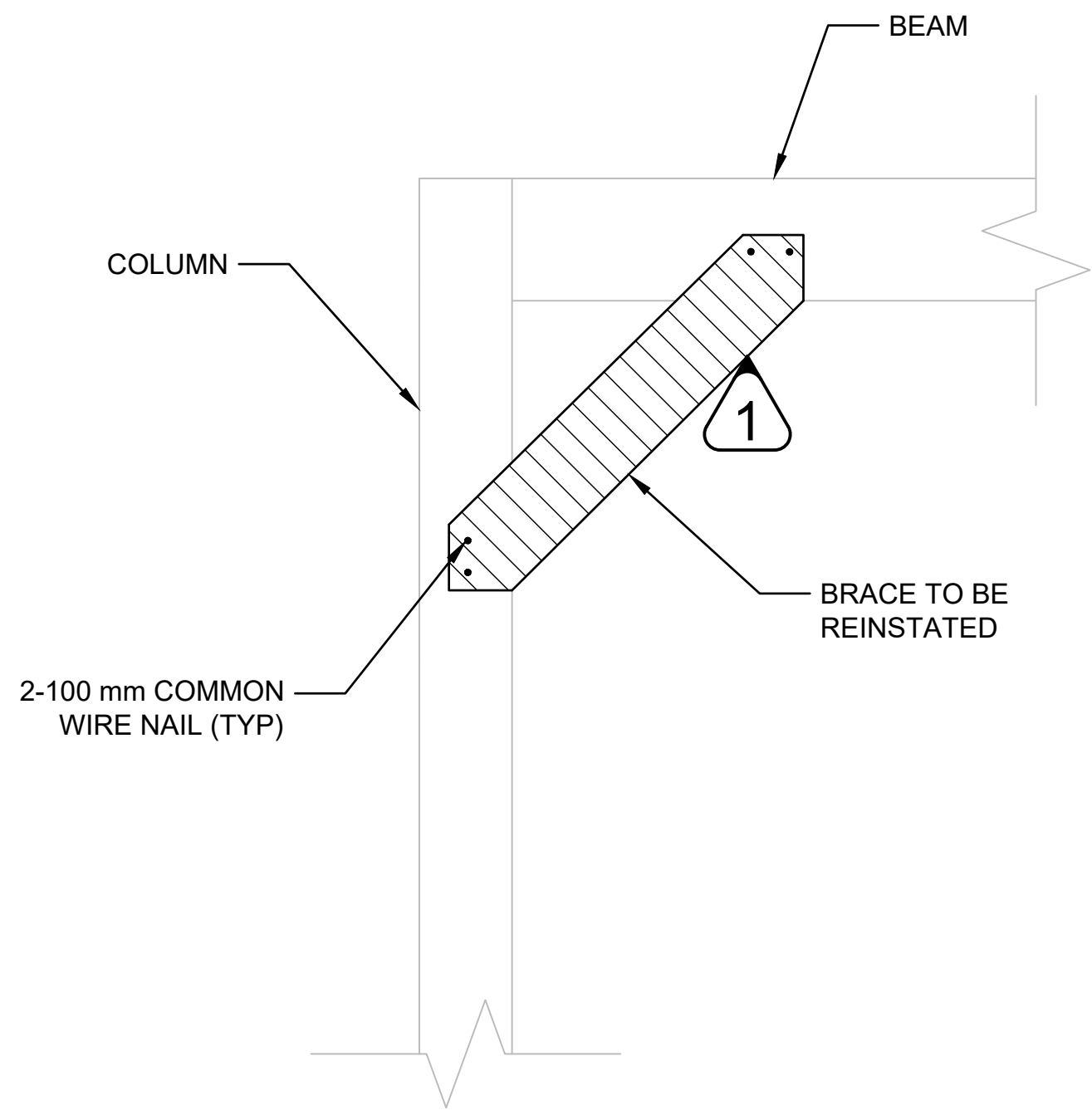
R.083678.001	<b>S6</b>
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2 S7 ATTIC BRACE REINSTATEMENT LOCATION NTS



3 S7 ATTIC BRACE DETAIL 1:10

- NOTES:
- BRACE REINSTATEMENT ON SOUTHERN MOST COLUMN ADJACENT TO SOUTH WALL. MODIFY EXISTING BRACE THAT WAS REMOVED AND IS FOUND ON LOFT FLOOR. MODIFY AS REQUIRED TO FIT EXISTING NOTCHES IN COLUMNS AND BEAMS, AS NECESSARY TO SUIT COUNTERWEIGHT INSTALLATION. ENSURE BRACE DOES NOT INTERFERE WITH COUNTERWEIGHT USED FOR BARN DOORS. DIMENSIONS/PROFILE TO BE VERIFIED ON SITE BY CONTRACTOR.
  - JOIST WITH PURLIN COLUMN BEARING. ADD 114 mm COMMON WIRE NAILS AT FLOOR PLANKS TO EXISTING JOISTS. 150 mm O.C. STAGGERED SPACING, 4 THROUGH EXISTING JOIST LOCATIONS.
  - EXISTING LOFT FLOOR BOARDS (2 LAYERS OF 20mm PLANKS). LAYOUT SHOWN IS APPROXIMATE. ATTACH FLOOR PLANKS TO EXISTING JOISTS USING 100mm COMMON WIRE NAILS @ 150mm SPACING.
  - OUTLINE OF NEW JOISTS (7 TOTAL). SEE DWG S8. ATTACH FLOOR PLANKS TO NEW JOISTS WITH STRUCTURAL SCREW TYPE 1 @ 150 mm O.C. STAGGERED SPACING. PRE-DRILL WITH SCREW HEAD DIAMETER DRILL BIT TO PROVIDE TOP OF SCREW HEAD FLUSH WITH TOP OF WOOD PLANKS
  - NEW STEEL STRAPPING AT LOFT LEVEL. SEE DETAIL 3/S9. LOCATION TO BE CONFIRMED ON SITE WITH DEPARTMENTAL REPRESENTATIVE.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES / SERVICES IMMOBILIERS / Western Region / Région de l'ouest

GENERAL NOTES:

- THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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- ALL DRAWINGS USE mm AS DIMENSIONAL UNITS UNLESS OTHERWISE NOTED.

LICENSED PROFESSIONAL ENGINEER / INGÉNIEUR PROFESSIONNEL / D. STEPHENSON / 09-30-19 / PROVINCE OF ONTARIO

Heritage Conservation Services / Architecture and Engineering Services / Real Property Branch / Public Services and Procurement Canada

Services de la Conservation du Patrimoine / Services d'Architecture et de Génie / Direction Générale des Biens Immobiliers / Services Publics et Approvisionnement Canada

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Revision	Description	Date
Client		client

PUBLIC SERVICES AND PROCUREMENT CANADA (PSPC)

Project / LONGVIEW, ALBERTA / 2018-2019 / BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION

Designed by / K. TYLOR, EIT / D. STEPHENSON, P.ENG / Compu par / D. PATEL / Dessiné par / D. STEPHENSON, P.ENG / Approuvé par / PWGSC Project Manager / G. SPENCE / Administrateur de Projets TPSPC

Drawing title / SECOND FLOOR AND ATTIC PLANS / Titre du dessin

Project no./No. du projet / R.083678.001	Drawing no./No. du dessin / S7	Revision no. / OF 16
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**Heritage Conservation Services**  
Architecture and Engineering Services  
Real Property Branch  
Public Services and Procurement Canada

**Services de la Conservation du Patrimoine**  
Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

LONGVIEW, ALBERTA

2018-2019

## BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION

Designed by Congu  
K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by	Described by
D. PATEL / A. PIWOWAR	

Approved by \_\_\_\_\_ Approved by \_\_\_\_\_  
D. STEPHENSON P. ENG

**PWGSC Project Manager** **Administrateur de Projets TI**  
G. SPENCE

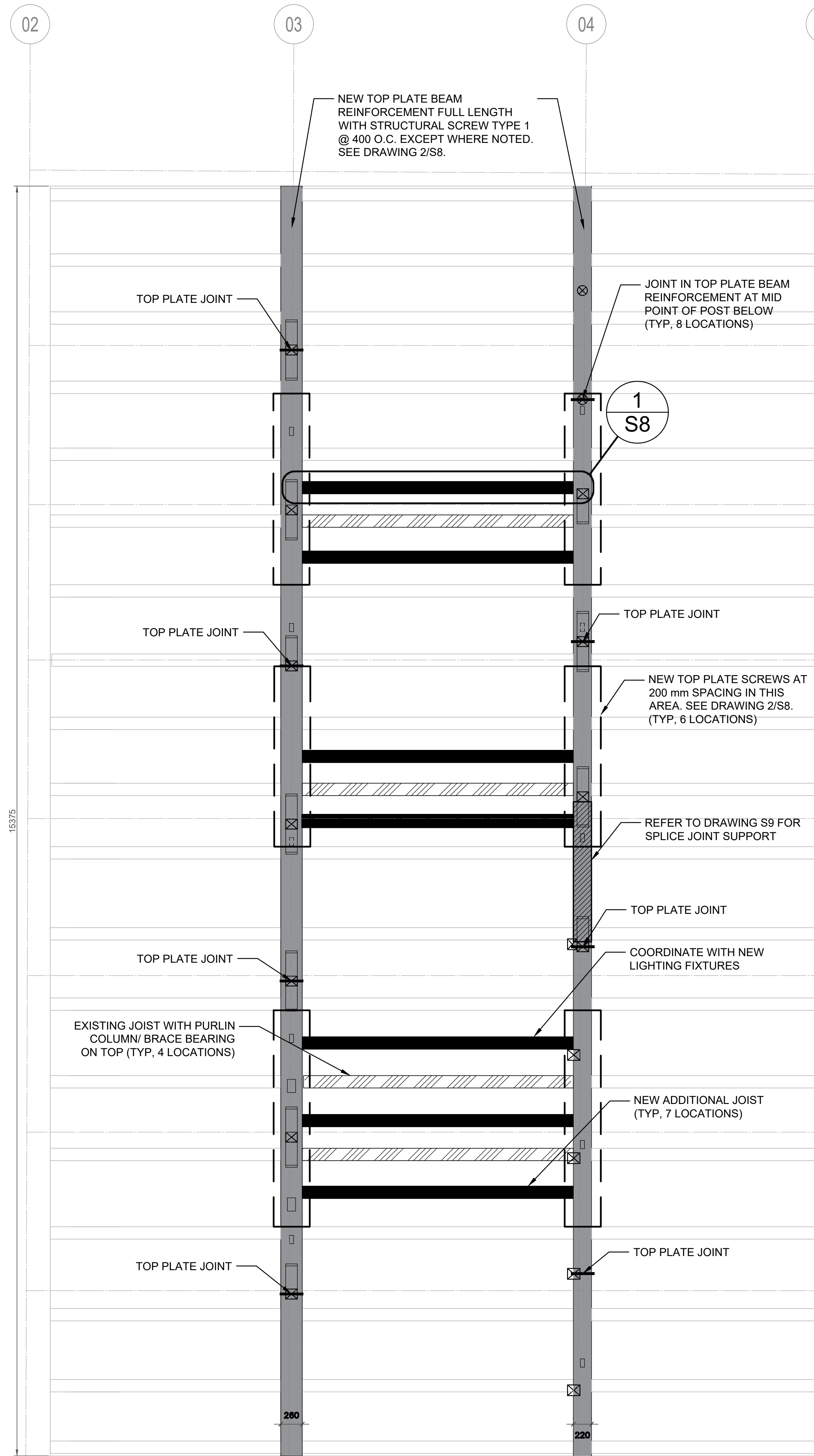
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## JOIST AND BEAM STRENGTHENING MEASURES

Project no./No. du projet	Drawing no./No. du dessin	Revision
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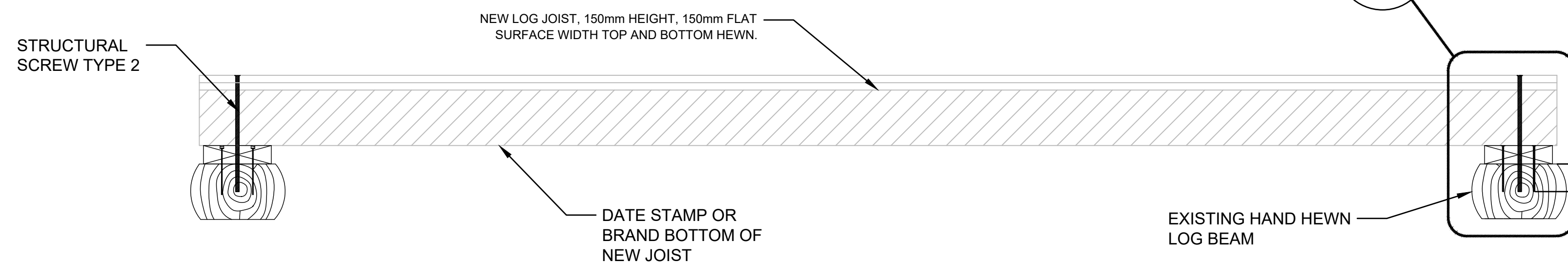
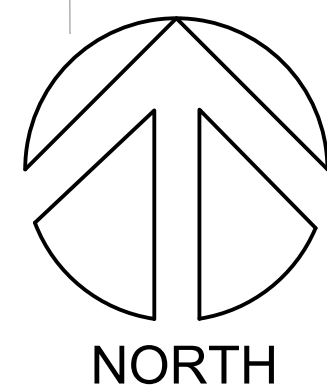
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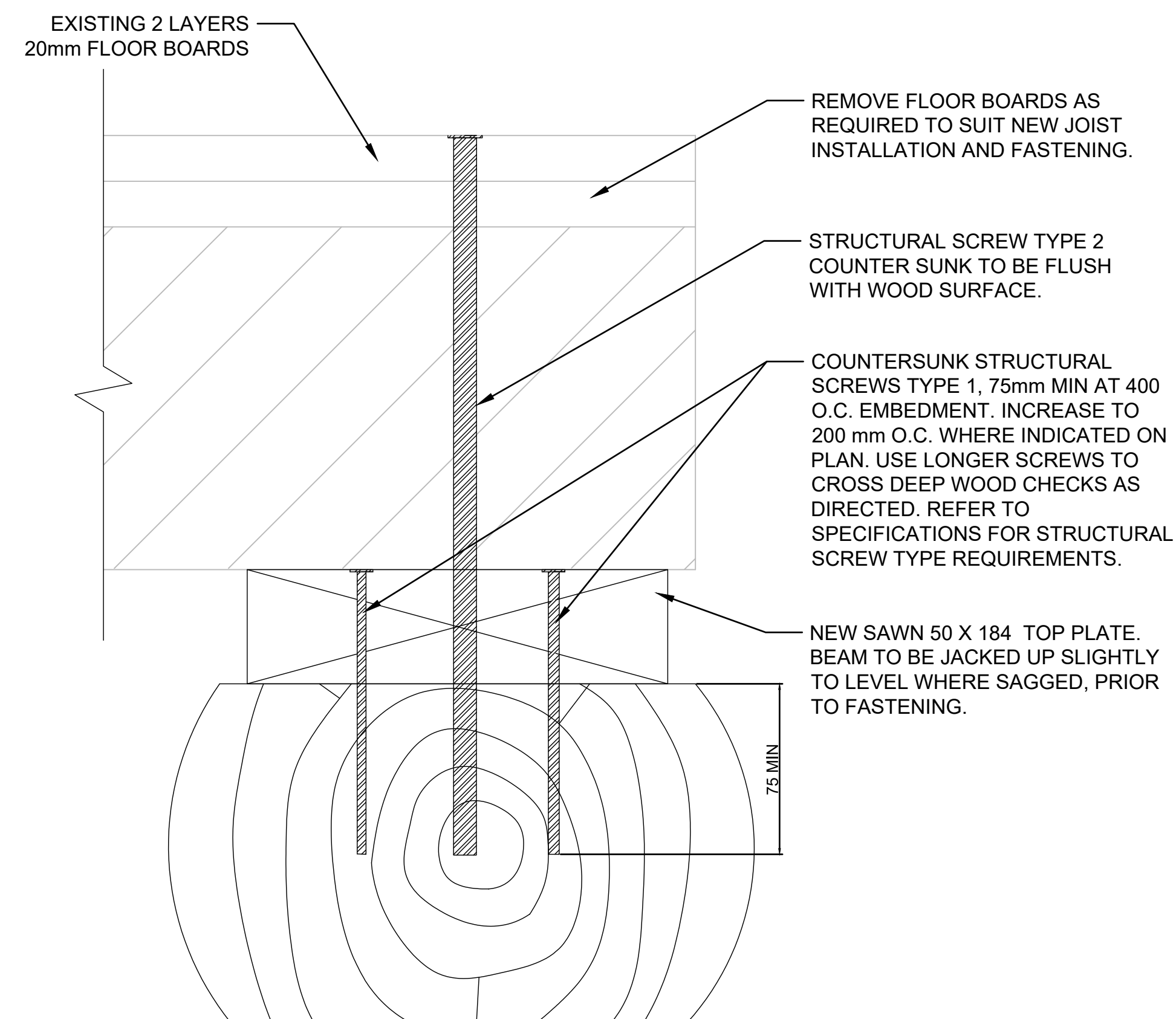


5 MAIN FLOOR REFLECTED CEILING PLAN (SCHEMATIC)

NOTE:  
BEAM AND JOIST DIMENSIONS AND PLUMB VARIES  
ALL DIMENSIONS ARE APPROXIMATE (+/-)



1 JOIST ADDITION DETAIL (TYP, 7 LOCATIONS)  
S8 1:10



F 2 S8 **BEAM REINFORCEMENT AND JOIST CONNECTION**  
1:2



3 FASTENERS AT POST/BEAM  
S8 NTS



4 PERSPECTIVE OF NEW REINFORCEMENT ABOVE BEAM  
S8 NTS



GENERAL NOTES:

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Revision	Description	Date
Client		client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by D. PATEL

Approved by D. STEPHENSON, P.ENG

PWOSC Project Manager G. SPENCE

Administrateur de Projets TPSPC

Drawing Title NORTH - SOUTH SECTION

STRUCTURAL WORK

Project no./No. du projet R.083678.001

Drawing no./No. du dessin S9

Revision no. OF 16

SHIM LOG JOISTS AS REQUIRED FOR TIGHT FIT BETWEEN JOISTS AND BEAMS.

BEAM TO BE REINFORCED OVER ENTIRE LENGTH. NEW TOP PLATE. SEE DETAIL 2/S8. SEE DETAIL 5/S8 FOR PERMISSIBLE JOINT LOCATIONS

NEW LOG INSTALLATION. SEE DWG S4 FOR NOTES.

REFER TO DRAWINGS S4 FOR LOG REPAIR/REPLACEMENT WORK.

ENLARGE BEAM POCKET TO ACCOMMODATE TOP PLATE AND LEVEL (TYP). REVIEW WITH DR PRIOR TO CUTTING. SHORE BEAM UP PER DR REVIEW PRIOR TO BEAM TOP PLATE INSTALLATION.

T.O. EXISTING BEAM (NORTH): +/- 57.005

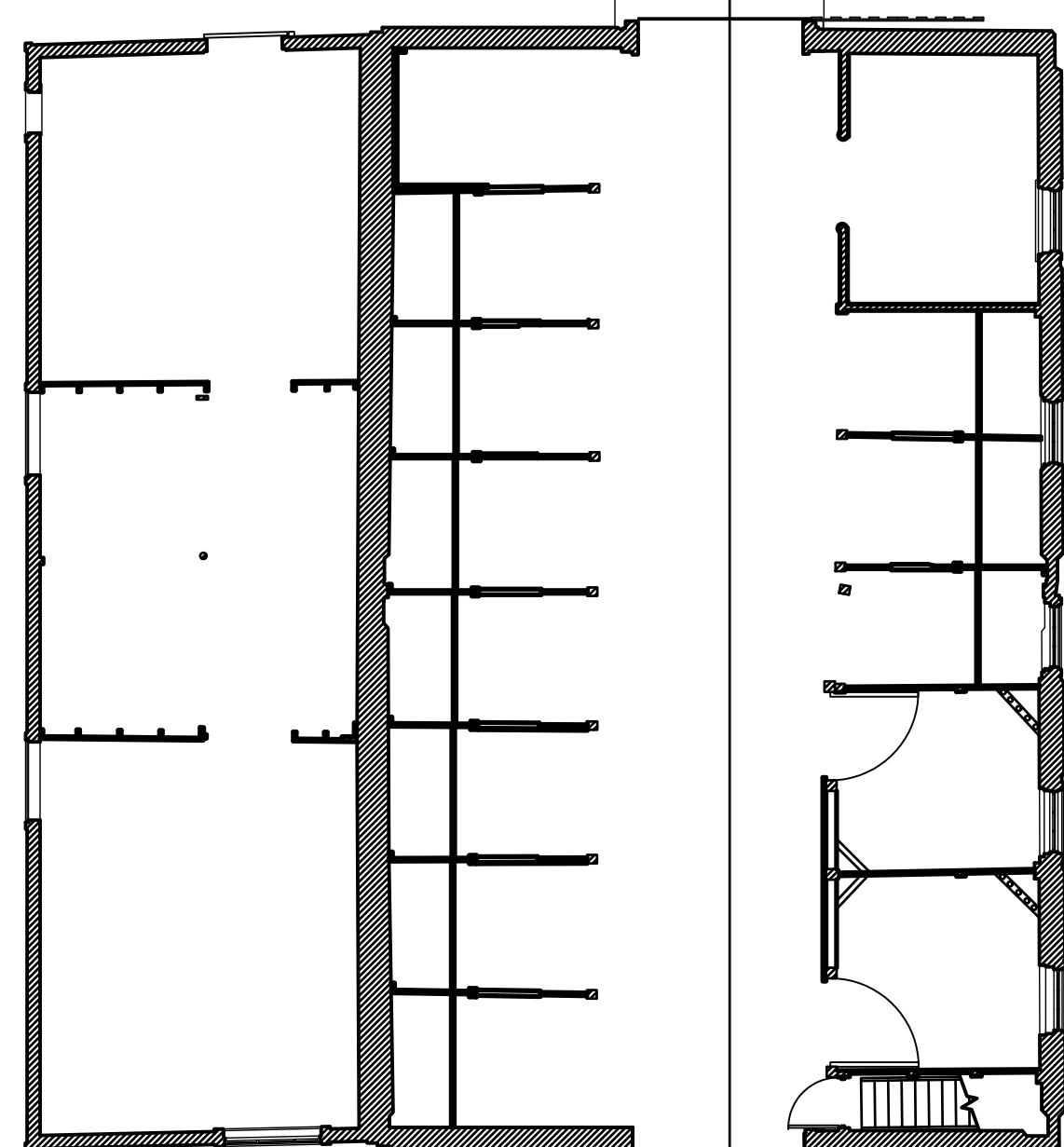
EXPANSION JOINT  
REPAIR AND REINSTATE HISTORIC CONCRETE SLAB ON NEW COMPACTED GRANULAR. ADJUST LEVEL TO SUIT NEW GRADE AND TOP OF AISLE SLAB. SEE DETAIL 4/S14.

T.O.S: +/- 54.640

T.O.GB AT SLAB: +/- 54.440 (REDUCED AT AISLE SLAB LOCATION ONLY)

NOTE: FOR RAIN-SCREEN OPTION, THIS WILL BE GB6.

1 N-S SECTION LOOKING EAST  
S9 1:25



2 FIRST FLOOR KEY PLAN  
S9 1:100

NEW 12x75 mm STRAPPING AT TWISTED LOGS. SEE DETAIL 3/S9. STRAPPING AT LOFT AND MAIN BARN LEVEL EAST AND WEST LOG WALLS. STRAPPING TO FINISH 35mm ABOVE STONE FOUNDATION.

NEW 12x75 mm STRAPPING AT TWISTED LOGS. SEE DETAIL 3/S9. STRAPPING AT LOFT AND MAIN BARN LEVEL EAST AND WEST LOG WALLS. STRAPPING TO FINISH 35mm ABOVE STONE FOUNDATION.

BRACE TO BE REINSTATED ON SOUTHERN MOST COLUMN ADJACENT TO SOUTH WALL.

EXISTING JOISTS WITH PURLIN COLUMN CONNECTION ON TOP. (TYP. 4 LOCATIONS)

NEW HEWN LOG JOISTS (TYP. 7 LOCATIONS)

SHORE BEAM UP +/- 25 mm TO REDUCE SAG IN THIS AREA PRIOR TO BEAM TOP PLATE INSTALLATION

T.O. EXISTING BEAM (SOUTH): +/- 57.120

ENLARGE BEAM POCKET TO ACCOMMODATE TOP PLATE AND LEVEL (TYP). REVIEW WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO CUTTING. SEE 4/S9.

T.O.S: +/- 54.620

EXPANSION JOINT

NEW RAMP SLAB. SEE DETAIL 3/S14.

T.O.GB AT SLAB: +/- 54.420 (REDUCED AT AISLE SLAB LOCATION ONLY)

NEW REINFORCED CONCRETE SLAB. SEE DRAWING S14.

NEW 200mm GRANULAR FILL TYPE 2 COMPACTED TO 100% SPPD (TYP)

SOIL SUBGRADE TO BE COMPACTED AND LEVELED.

SEE DETAIL 8/S15 FOR NEW SPLICE JOINT SUPPORT.

NEW GRADE BEAM ON SCREW PILES (TYP) REFER TO S5 AND S10 DETAILS

EXISTING BEAM SPLICE TO BE TAKEN APART FOR TEMPORARY BEAM REMOVAL TO FACILITATE BEAM REINFORCEMENT. REINSTATE SPLICE WITH BEAM REINSTALLATION SUBSEQUENT TO LIFTING AND REPAIRS. ENSURE ENGINEERED SHORING IN PLACE PRIOR TO BEAM WORK. TOP PLATE IN THIS AREA TO BE INSTALLED AFTER BEAM IS BACK IN PLACE TO ENSURE CONTINUITY OVER BEAM SPLICE.

PROVIDE VERTICAL STRAPPING BOTH SIDES, RECONNECT WOOD LOGS. SEE DETAIL 3/S9.



NEW 12 X 75 BLACK STEEL STRAPPING. SIMILAR TO EXISTING STRAPPING AT BUILDING CORNERS. PROVIDE WOOD BLOCKING WEDGE SHAPED SPACERS BETWEEN PLATE AND LOGS TO SUIT WIDTH OF GAP FROM LOG TWISTING.

190 X 175 BLACK STEEL LAG SCREWS, CENTER OF EACH LOG.

EXISTING BEAM

BEAM POCKET ENLARGEMENT REQUIRED (TYP. EACH BEAM/LOG JUNCTION. 4 LOCATIONS)

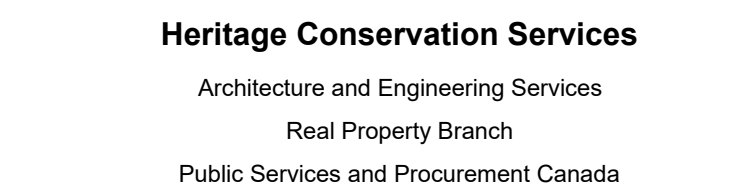


4 VIEW LOOKING NORTH  
S9 NTS

3 VERTICAL STRAPPING DETAIL AT TWISTED LOGS  
S9 NTS



1. THE WORKHOUSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THAT PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THE RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
2. DEPARTMENTAL REPRESENTATIVES MUST BE INVOLVED IN ADVANCE OF ANY WORK. REFERENCE TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
3. ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS AND FIELD CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
4. THE DRAWINGS REFLECT THAT AN EXISTING BUILDING, BUILDING ALIGNMENT AND DIMENSIONS MAY VARY FROM THE DRAWINGS AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. SITE CONDITIONS WILL BE THE BASIS FOR ANY DISCREPANCY. REFER TO 'EX' DRAWING SET FOR ADDITIONAL DIMENSIONING. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
5. ALL DRAWINGS USE DIMENSIONS WITH UNITS UNLESS OTHERWISE NOTED.



Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

Revision	Description	Date
Client		

## BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION

Drawing title	Titre du dessin
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R.083678.001	<b>S10</b> OF 16
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- |   |  |   |   |
|---|--|---|---|
| 1 | TOP OF EACH MAIN BARN GRADE BEAM ELEVATION +/- 54,500. TO BE CONFIRMED ON SITE WITH DEPARTMENTAL REPRESENTATIVE (TYP, ALL GRADE BEAMS).  | 3 | STONE UNITS TO BE REINSTITATED ON TOP OF CONCRETE GRADE BEAM. STONEMWORK TO BE EXPOSED 150-300mm ABOVE GRADE. EXPOSURE WILL BE DETERMINED BY FINISH GRADING LEVELS AND WITH REVIEW BY DEPARTMENTAL REPRESENTATIVE. REFER TO DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH GRADES. |
| 2 | NEW REINFORCED CONCRETE CURB BEAM. TOP OF EACH CURB BEAM TO BE SET TO SUIT NEW TOP OF WOOD PLANK FLOOR HEIGHT, VARIABLE SLAB ELEVATION, AND FLOOR BOARD SLOPE. (TYP)                                   | 4 | ALL CONCRETE VISIBLE TO VIEW ON WEST ADDITION FOUNDATION SHALL BE EXPOSED AGGREGATE FINISH TO PROVIDE A "WEATHERED" OR "BUSH HAMMERED" APPEARANCE. USE MAXIMUM 20 MM ROUND AGGREGATE. REFER TO BLACKSMITH SHOP NEARBY AS A REFERENCE.   |
| 5 | REPRESENTATION OF TEMPORARY FORM/SPACER REQUIRED ONLY TO MAKE NOTCH TO SUIT VARIABLE ELEVATIONS AT JUNCTIONS. CONCRETE SLAB OR CURBS TO BEAR ON COMPACTED SUB-GRADE AND GRADE BEAM NOTCH AT JUNCTIONS. |   |   |



NOTES:

1. NEW GRADE TO HAVE A SLOPE AWAY FROM BUILDING. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR NEW GRADES.
2. THE NEW TOP OF STONE FOUNDATION TO BE +/- 170 mm HIGHER THAN EXISTING TOP OF STONE AT SOUTH-EAST CORNER OF ORIGINAL BARN TO FACILITATE PROPER DRAINAGE SLOPE AWAY FROM STRUCTURE AND ENSURE MINIMUM CLEARANCE OF WOOD LOGS ABOVE FINISH GRADE.
3. PERFORM AND SUBMIT LEVEL SURVEY OF STRUCTURE ON EXISTING FOUNDATION PRIOR TO LIFTING AND/OR MOVING.
4. MAINTAIN 150mm MIN FROM TOP OF GRADE TO TOP OF STONE. FINAL TOP OF FOUNDATION ELEVATIONS TO BE CONFIRMED WITH DEPARTMENTAL REPRESENTATIVE.
5. THE FOUR (4) CORNERS AND LOG WALLS OF THE MAIN BARN HAVE SETTLED RELATIVE TO THE CENTER VERTICAL COLUMNS OF THE EAST AND WEST WALLS. NORTH END HAS SETTLED MOST. REFER TO SPECIFICATIONS FOR SEQUENCING REQUIREMENTS.
6. ALLOW FOR VARIATION IN TOP OF NEW NEW FOUNDATION AND ALIGNMENT TO SUIT EXISTING BUILDING TOLERANCES AND EXTENT OF RE-LEVELLING POSSIBLE. VERIFY TOP OF FOUNDATION LEVELS INDICATED ON DRAWINGS PRIOR TO FINAL LOWERING OF BUILDING ONTO NEW FOUNDATION. ADJUST HEIGHT OF STONE MASONRY AS REQUIRED TO SUIT FULL BEARING OF STRUCTURE ON FOUNDATION.
7. DIFFERENCE BETWEEN EXISTING AND NEW ELEVATIONS INDICATED VARIES DUE TO VARIANCE IN EXISTING STRUCTURE LEVELS.

NEW T.O. ROOF RIDGE (NORTH):  
+/- 62.180  
(EXISTING: +/- 61.960)

WOOD INTERIOR STUD WALL TO BE REMOVED. NEW FULL LENGTH LOGS TO BE INSTALLED WITH DOVETAIL CONNECTIONS TO SIDE WALLS TO MATCH ORIGINAL CONSTRUCTION.

NEW T.O. LOFT FLOOR:  
+/- 54.445  
(EXISTING: +/- 57.225)

NEW T.O. AISLE SLAB:  
+/- 54.640  
(EXISTING: +/- 54.750)

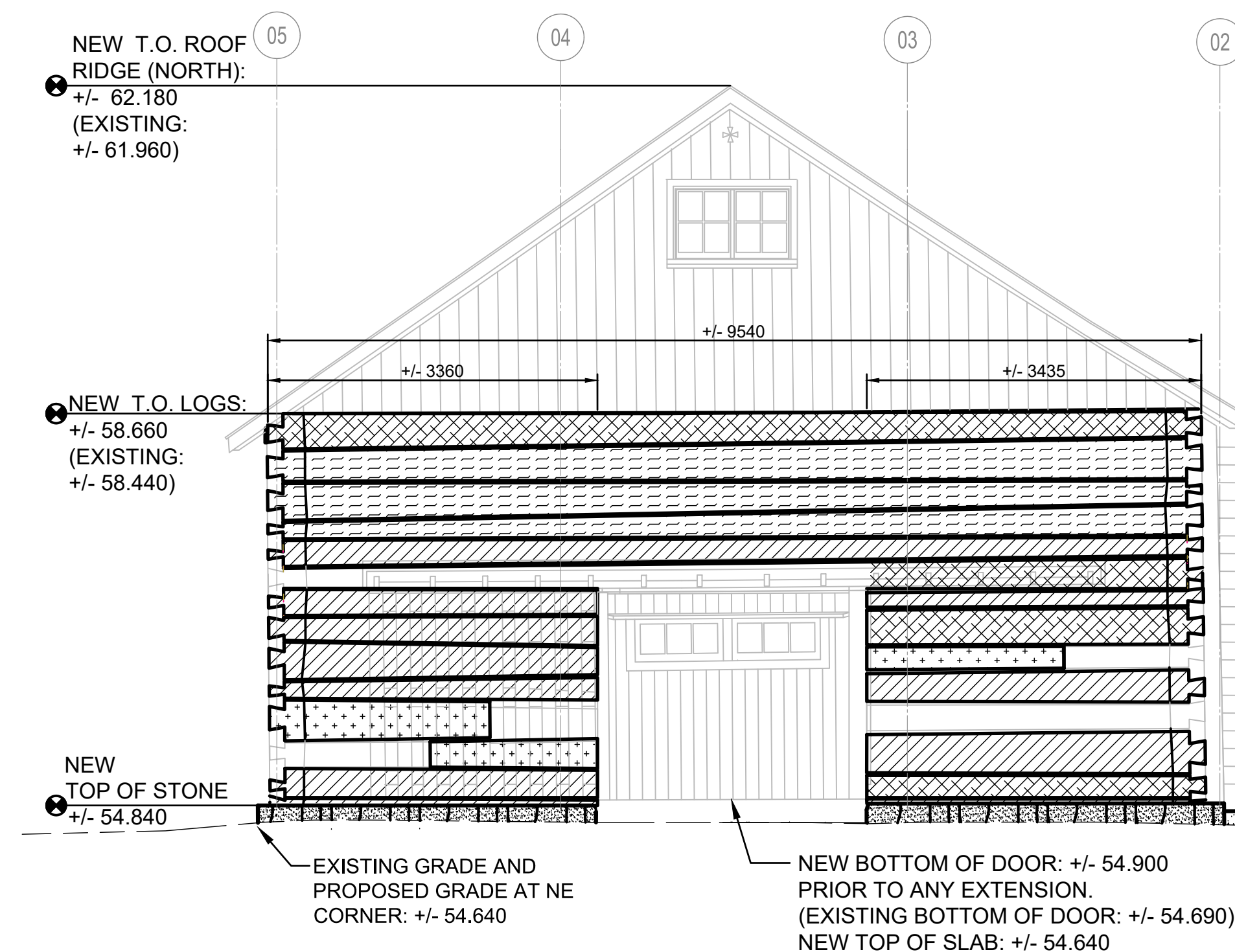
NEW T.O. ROOF RIDGE (SOUTH):  
+/- 62.175  
(EXISTING: +/- 62.005)

NEW T.O. LOFT FLOOR:  
+/- 57.520  
(EXISTING: +/- 57.350)

NEW T.O. AISLE SLAB:  
+/- 54.620  
(EXISTING: +/- 54.690)

SEE DETAIL 8/S15 FOR NEW SPLICE JOINT SUPPORT.

1 SECTION - LOOKING EAST  
1 : 50



2 NORTH ELEVATION  
1 : 50

LEGEND

- REPLACE FULL LOG WITH FULL LOG
- REFACE LOG
- SPLICE LOG
- REPLACE PARTIAL LOG WITH FULL LOG

NEW T.O. ROOF RIDGE (SOUTH):  
+/- 62.175  
(EXISTING: +/- 62.005)

NEW T.O. ROOF RIDGE (NORTH):  
+/- 62.18  
(EXISTING: +/- 61.960)

NOTE: WEST ELEVATION OF MAIN BARN SIMILAR FOR REQUIRED BOTTOM LOG REPLACEMENT WORK. SEE EX18, EX29 FOR MAIN BARN WEST ELEVATION VIEWS.

NEW TOP OF STONE  
+/- 54.790

APPROXIMATE LINE OF NEW GRADE.  
+/- 54.560 AT SOUTH END.

TOP OF NEW GRADE BEAM:  
+/- 54.500

EXTEND VERTICAL POST SEE DETAIL 2/S12. WEST ELEVATION POST REQUIRES SIMILAR WORK.

NEW TOP OF STONE:  
+/- 54.840

NEW TOP OF STONE  
+/- 54.840

APPROXIMATE LINE OF NEW GRADE. +/- 54.640 AT NORTH END. REFER TO CIVIL DRAWINGS FOR GRADING (TYP)

4 EAST ELEVATION  
1 : 50

3 SOUTH ELEVATION  
1 : 50

GENERAL NOTES:

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Services de la Conservation du Patrimoine

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Revision	Description	Date
Client		client

PUBLIC SERVICES AND PROCUREMENT CANADA (PSPC)

Project	LONGVIEW, ALBERTA	Projet
	2018-2019	
	BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION	

Designed by  
K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by  
D. PATEL

Approved by  
D. STEPHENSON, P.ENG

PWOSC Project Manager  
G. SPENCE

Administrateur de Projets TPSGC

Drawing Title  
NEW FOUNDATION AND LOG WORK

Project no./No. du projet  
R.083678.001

Drawing no./No. du dessin  
S11

Revision no.  
OF 16



- GENERAL NOTES:
1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A 'CLASSIFIED' BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Revision	Description	Date
Client		Client

**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

Project **LONGVIEW, ALBERTA** Proj

**2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

Designed by **K. TYLOR, EIT / D. STEPHENSON, P.ENG** Conçu par

Drawn by **D. PATEL** Dessiné par

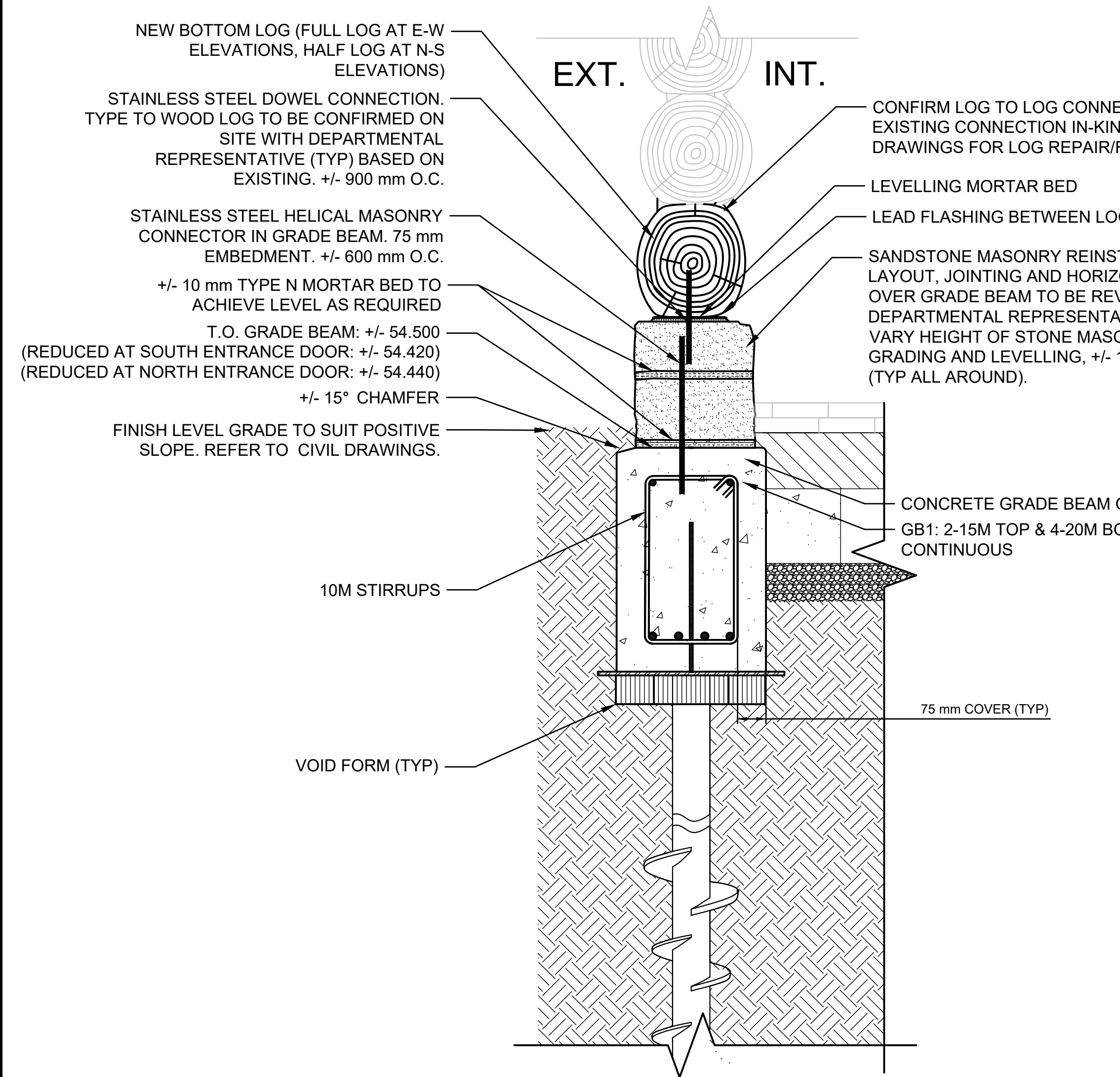
Approved by **D. STEPHENSON, P.ENG** Approuvé par

PWOSC Project Manager **G. SPENCE** Administrateur de Projets TPSPC

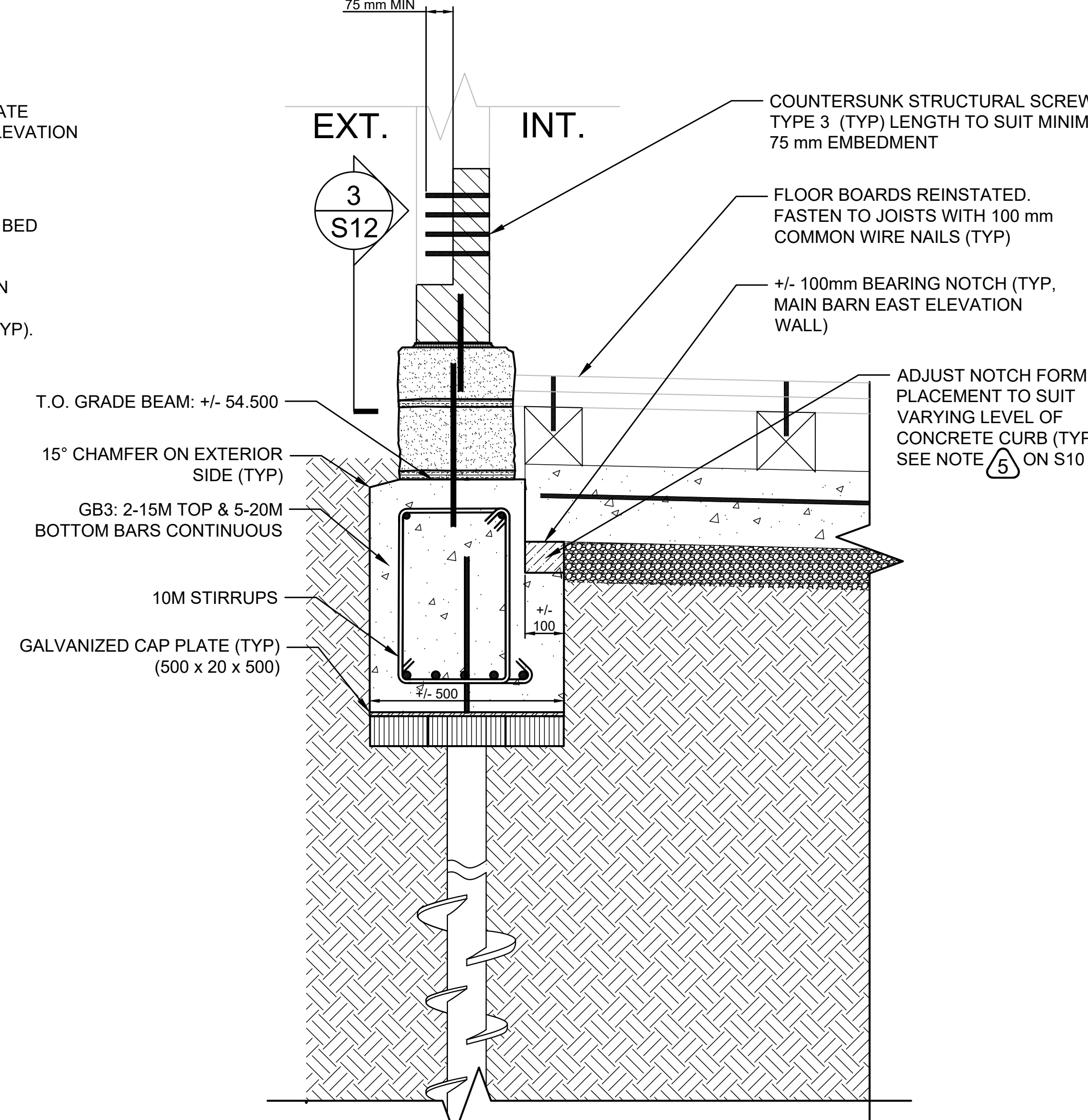
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Project no./No. du projet **R.083678.001** Drawing no./No. du dessin **S12** Revision no.

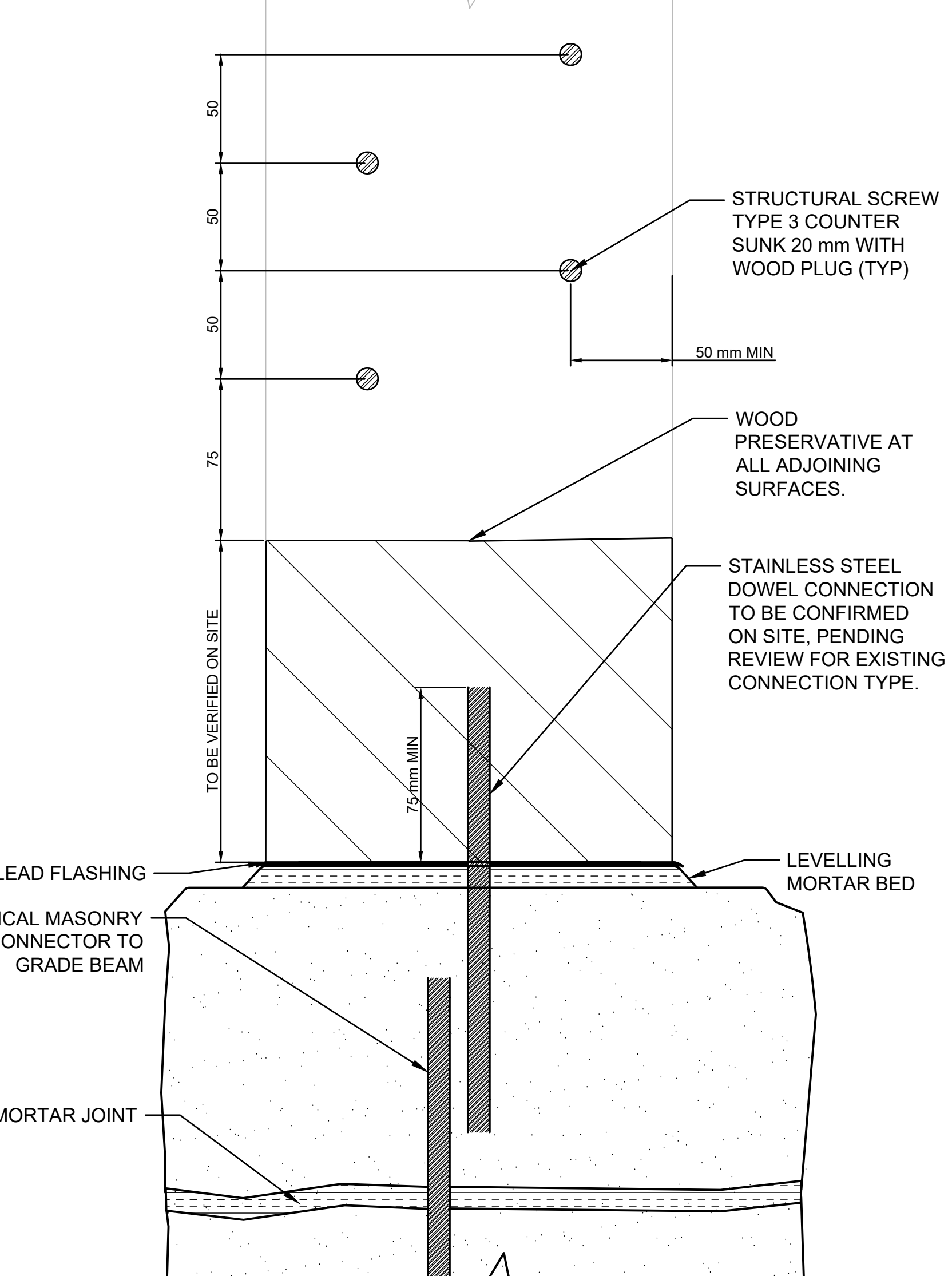
**S12**  
OF 16



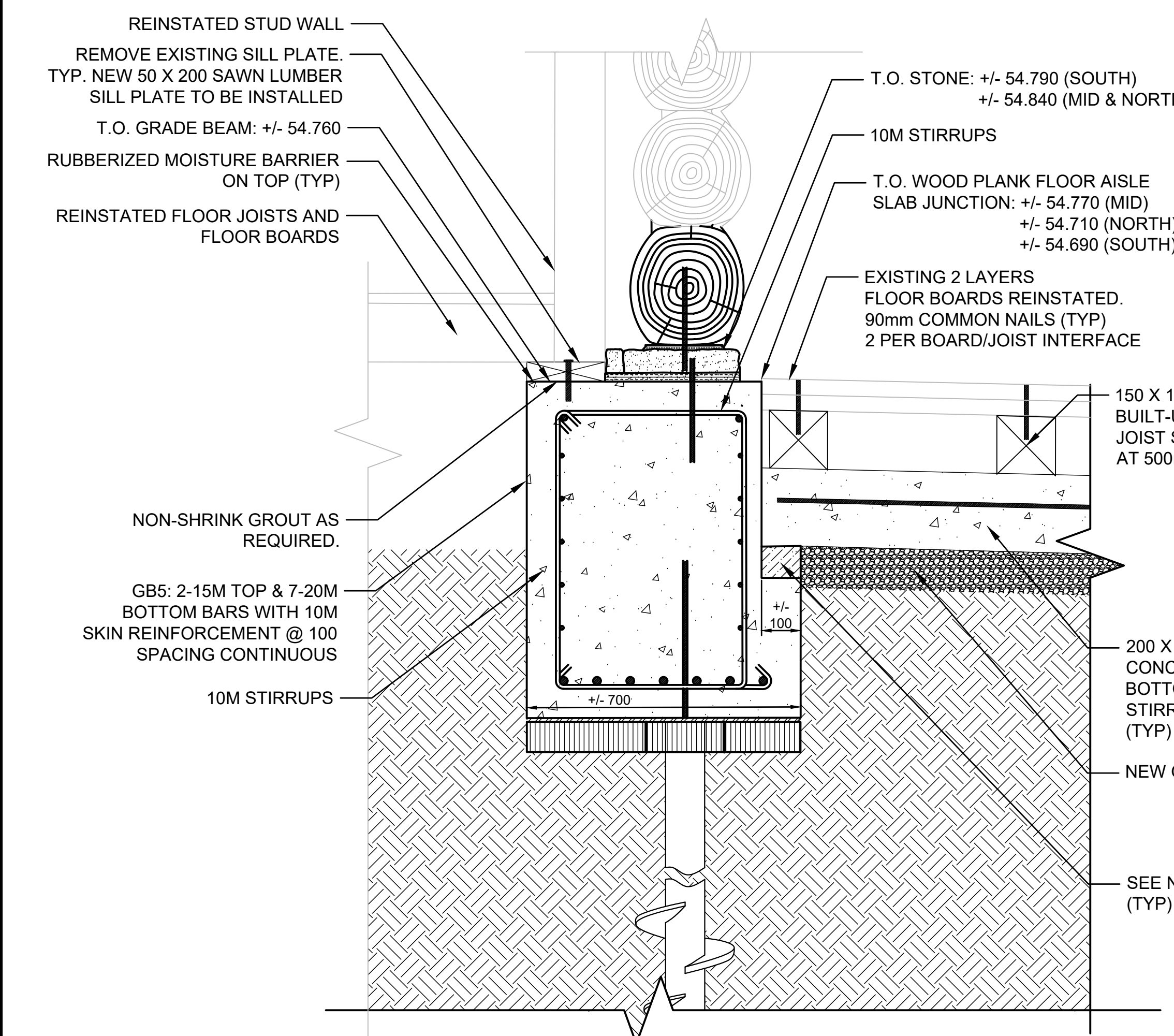
**1 FOUNDATION DETAIL LOG WALL MAIN BARN**  
1 : 10



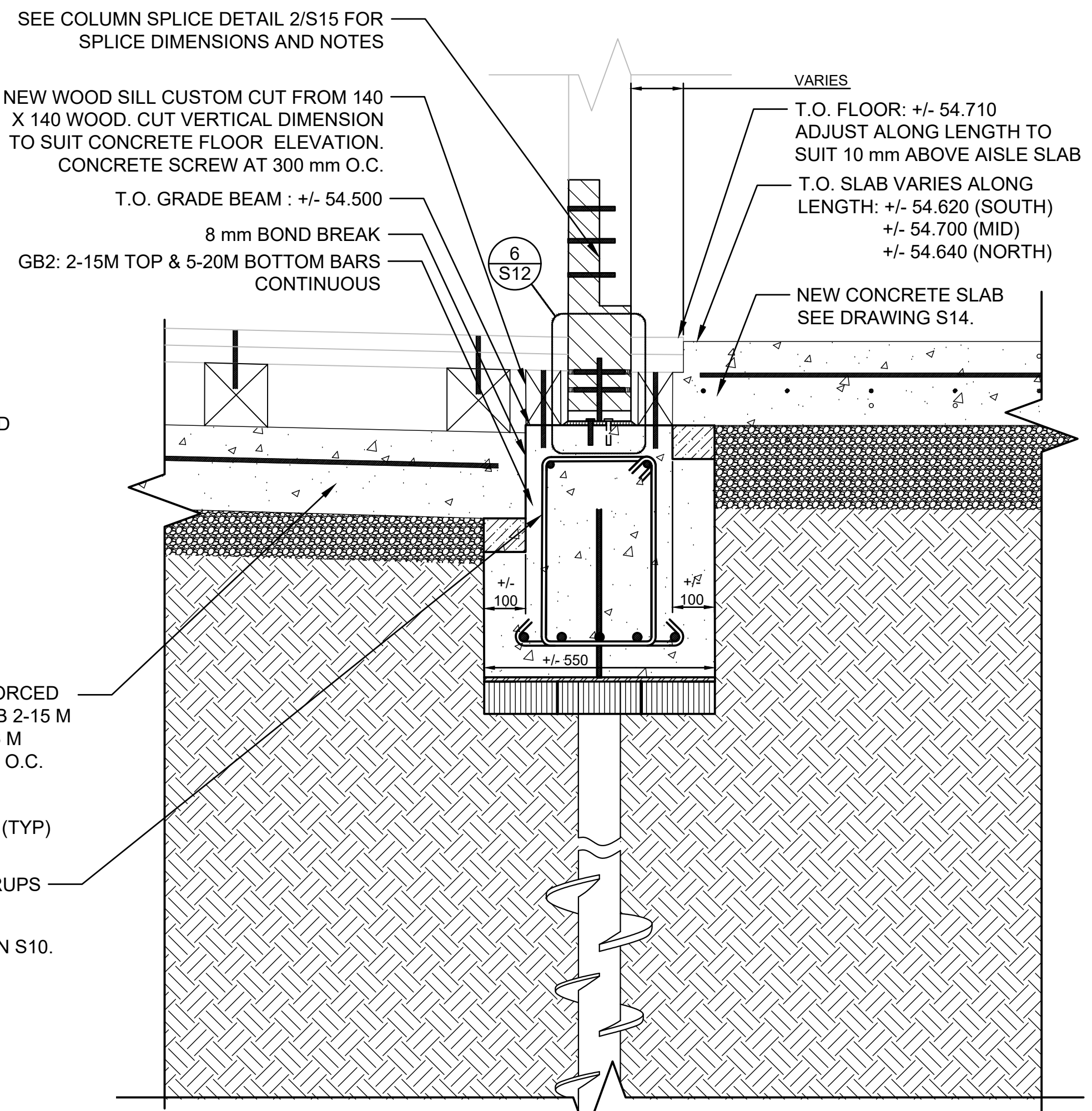
**2 FOUNDATION DETAIL AT EAST ELEVATION POST**  
1 : 10 (NOTE: WEST ELEVATION POST SIMILAR)



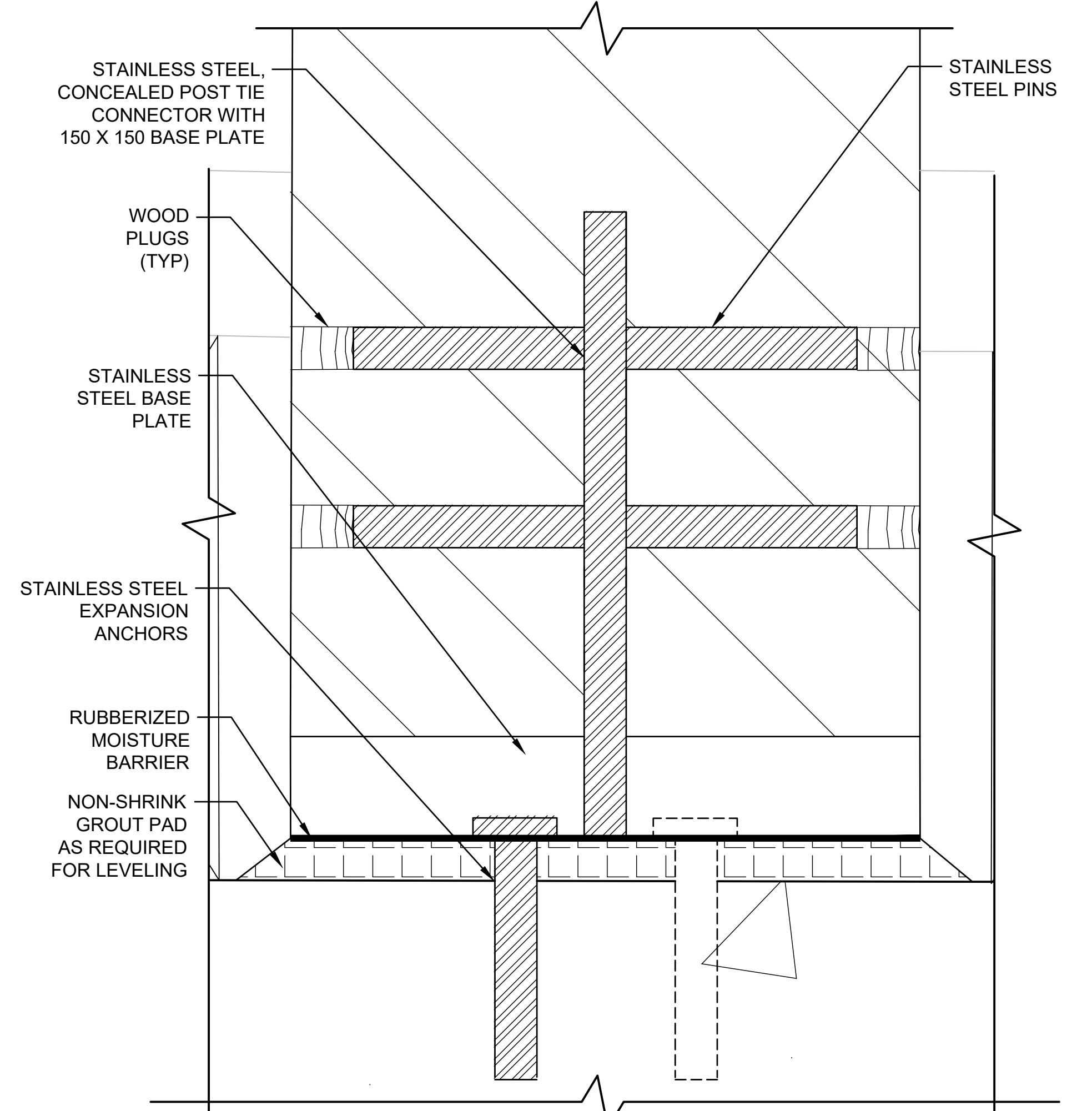
**3 EAST POST SPLICE CONNECTION**  
1 : 2 (NOTE: WEST ELEVATION POST SIMILAR)



**4 MAIN BARN AND WEST ADDITON JUNCTION**  
1 : 10



**5 GRADE BEAM AT INTERIOR COLUMN**  
1 : 10



**6 COLUMN TO GRADE BEAM CONNECTION  
W/ CONCEALED POST TIE** (REFER TO SPECIFICATIONS)  
1:1

NOTE:  
LOGS SHOWN ARE DIAGRAMMATIC



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Real Property Branch  
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Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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Revision	Description	Date
Client		client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by D. PATEL

Approved by D. STEPHENSON, P.ENG

PWOSC Project Manager G. SPENCE

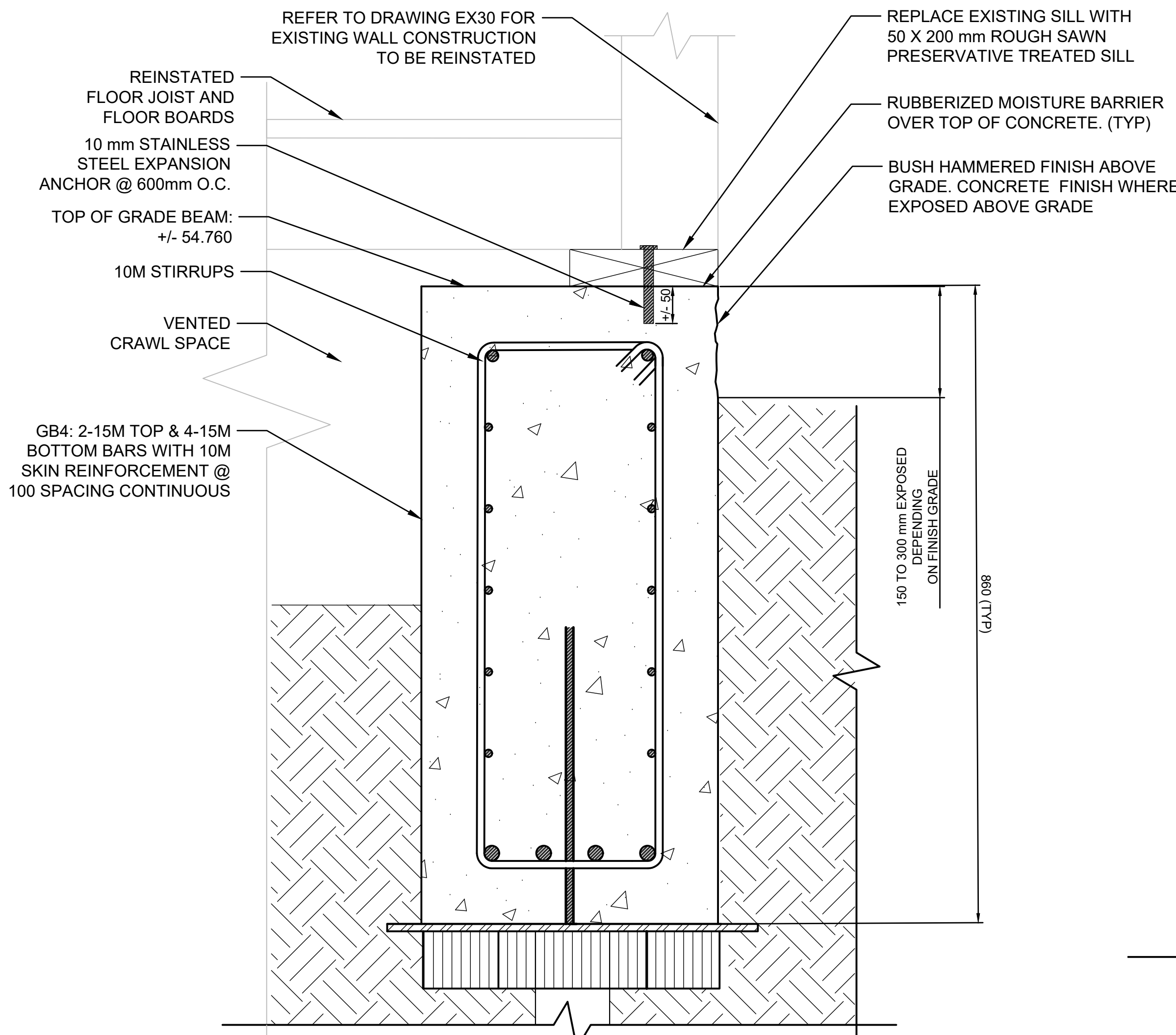
Administrateur de Projets TPSPC

Drawing Title FOUNDATION DETAILS

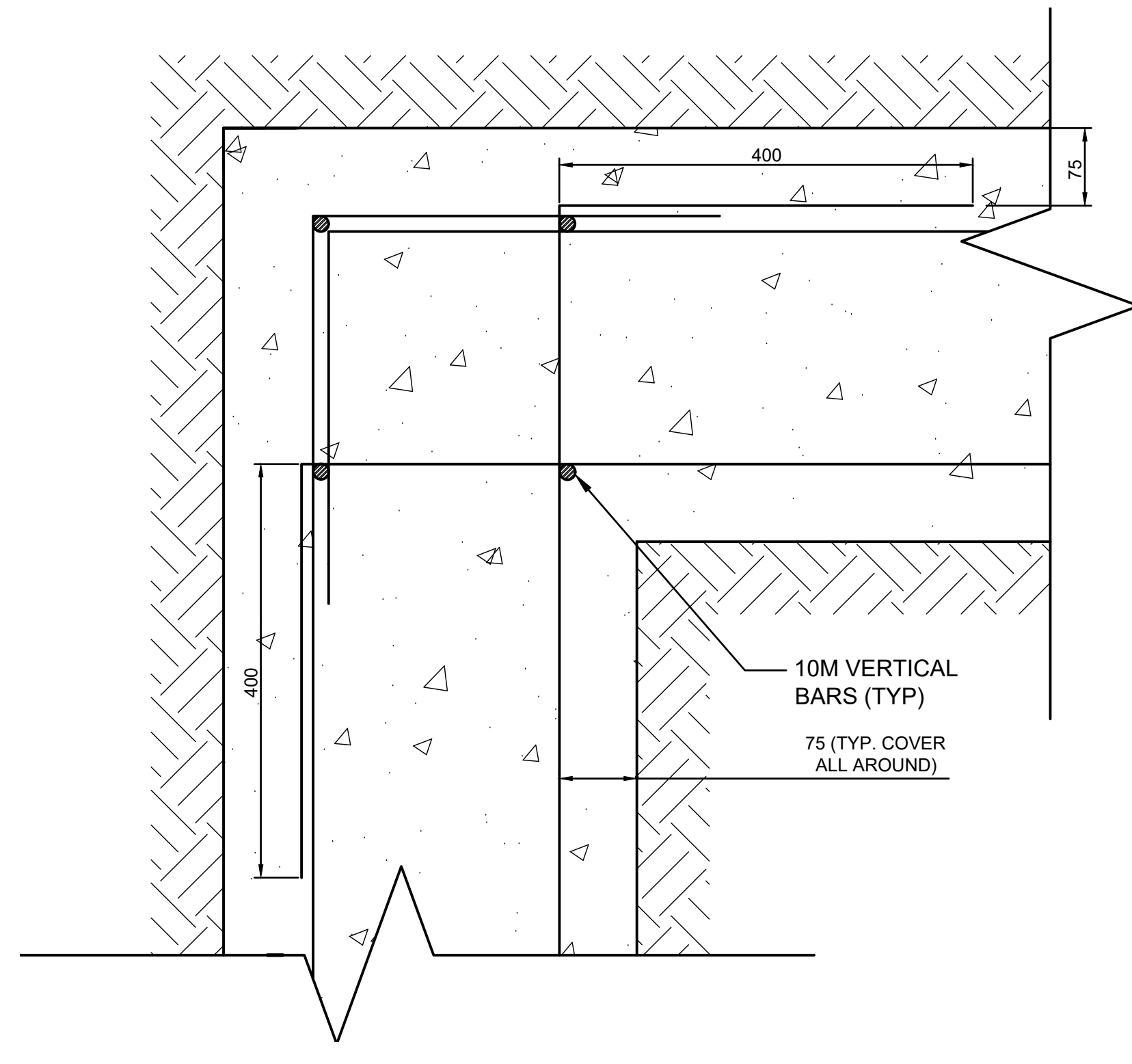
Project no./No. du projet R.083678.001

S13

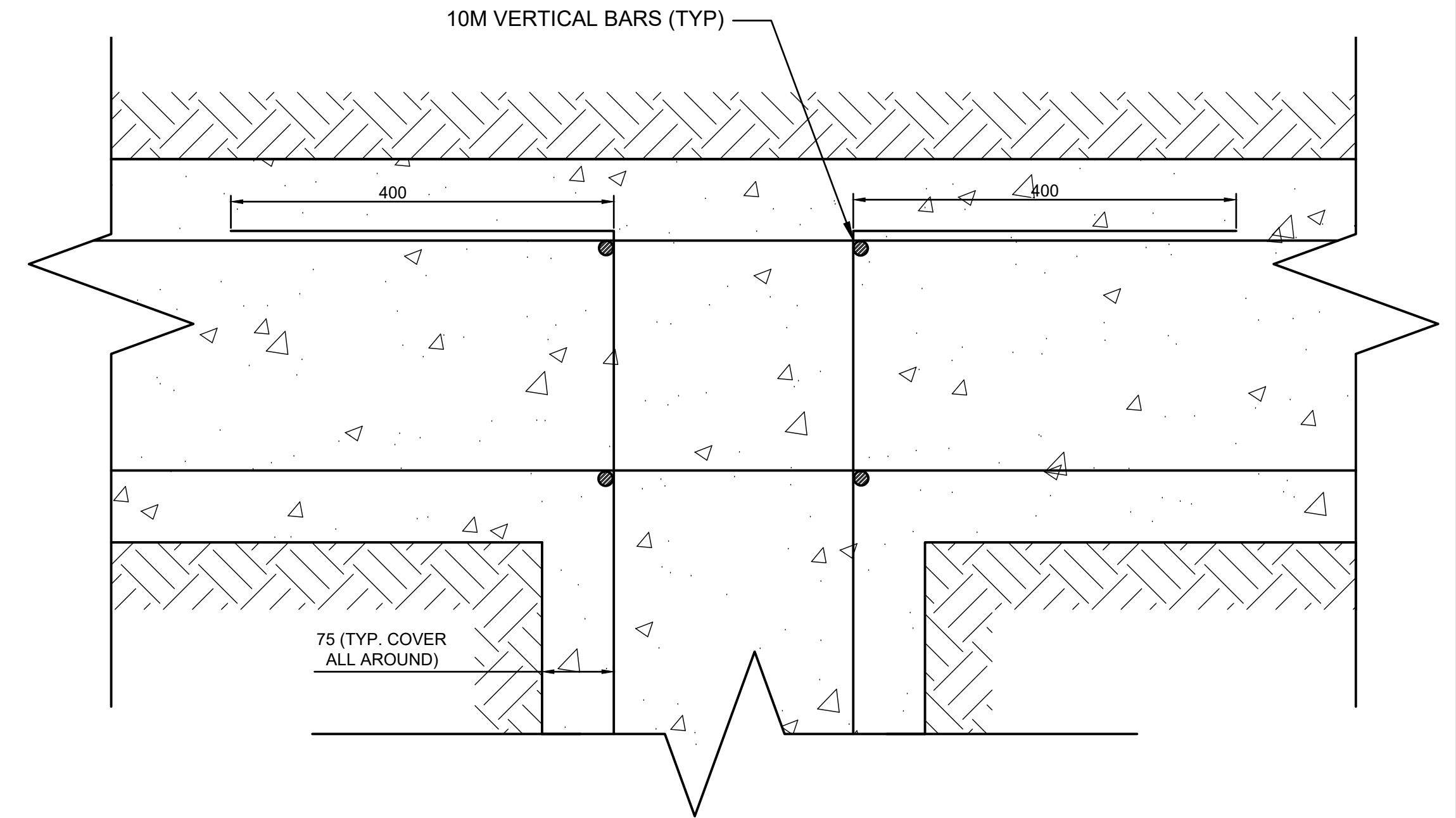
OF 16



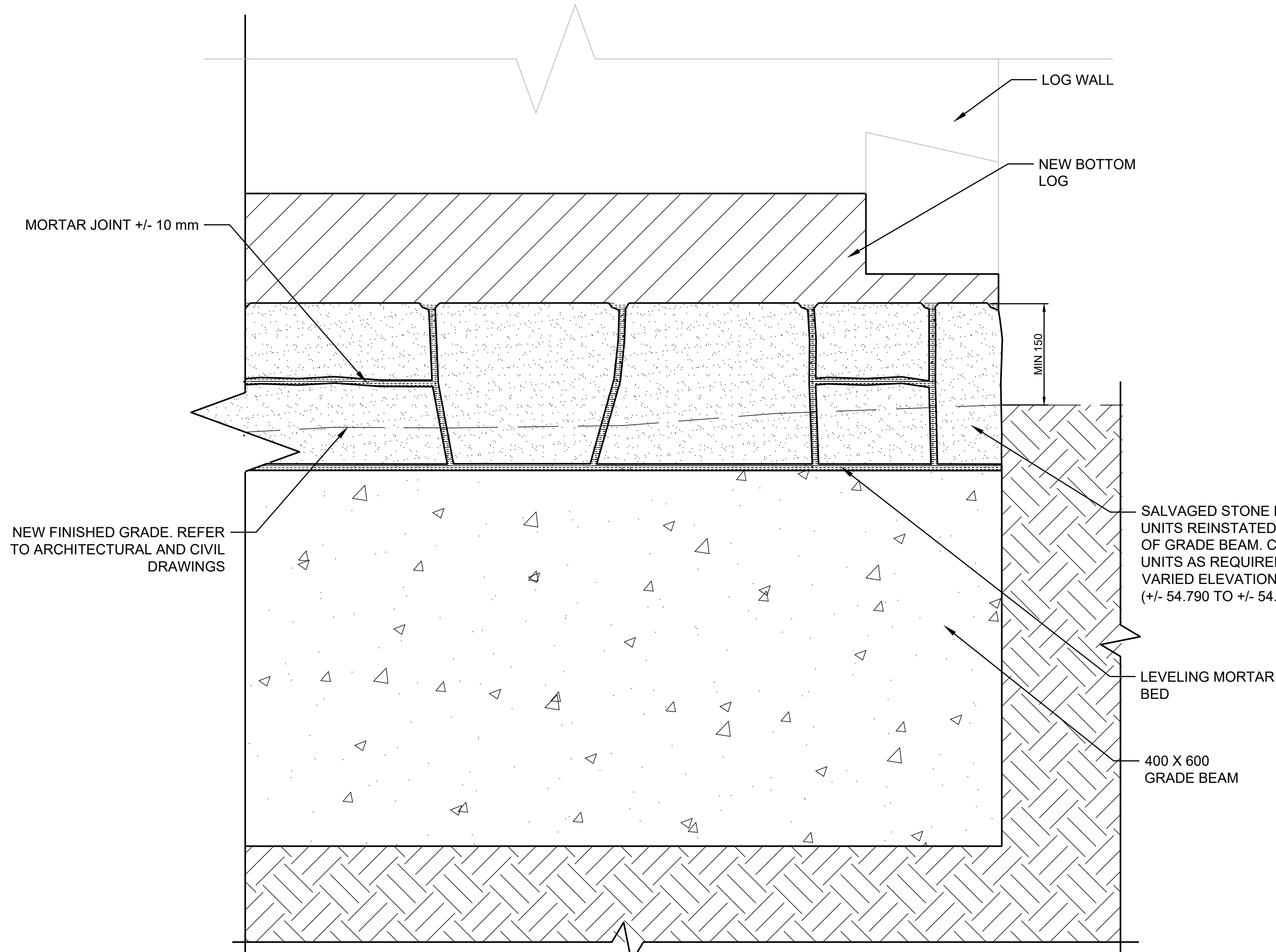
1 WEST ADDITION EXTERIOR WALL/FOUNDATION  
S13 1:5



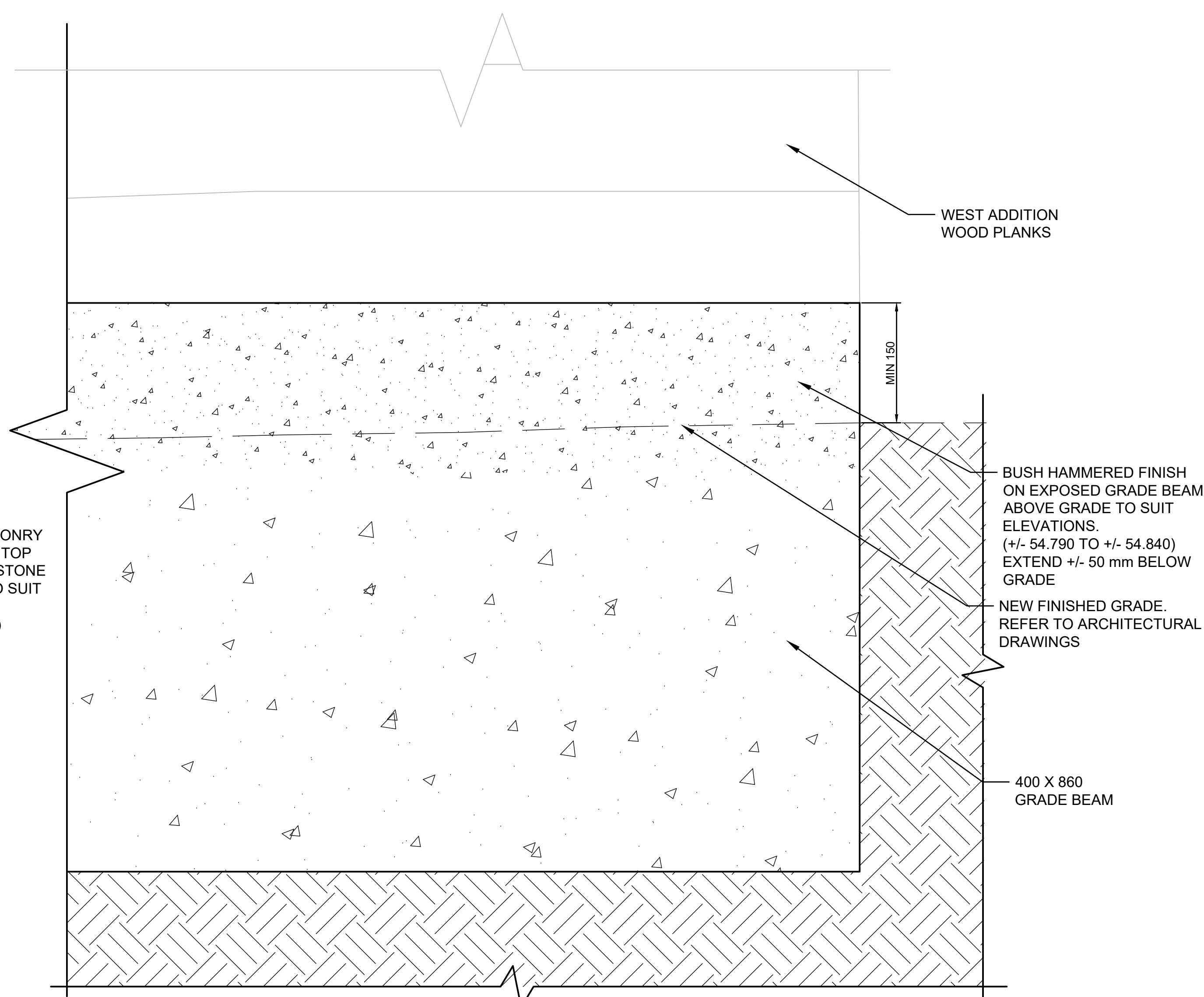
2 GRADE BEAM CORNER REBAR LAP DETAIL  
S13 1:5



3 GRADE BEAM T-JUNCTION REBAR LAP DETAIL  
S13 1:5



4 MAIN BARN FOUNDATION ELEVATION  
S13 1:5



5 WEST ADDITION FOUNDATION ELEVATION  
S13 1:5



GENERAL NOTES:

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Services Publics et Approvisionnement Canada

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Revision	Description	Date
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Client client

PUBLIC SERVICES AND PROCUREMENT CANADA (PSPC)

Project Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by Conçu par  
K. TYLOR, EIT / D. STEPHENSON, P.ENG

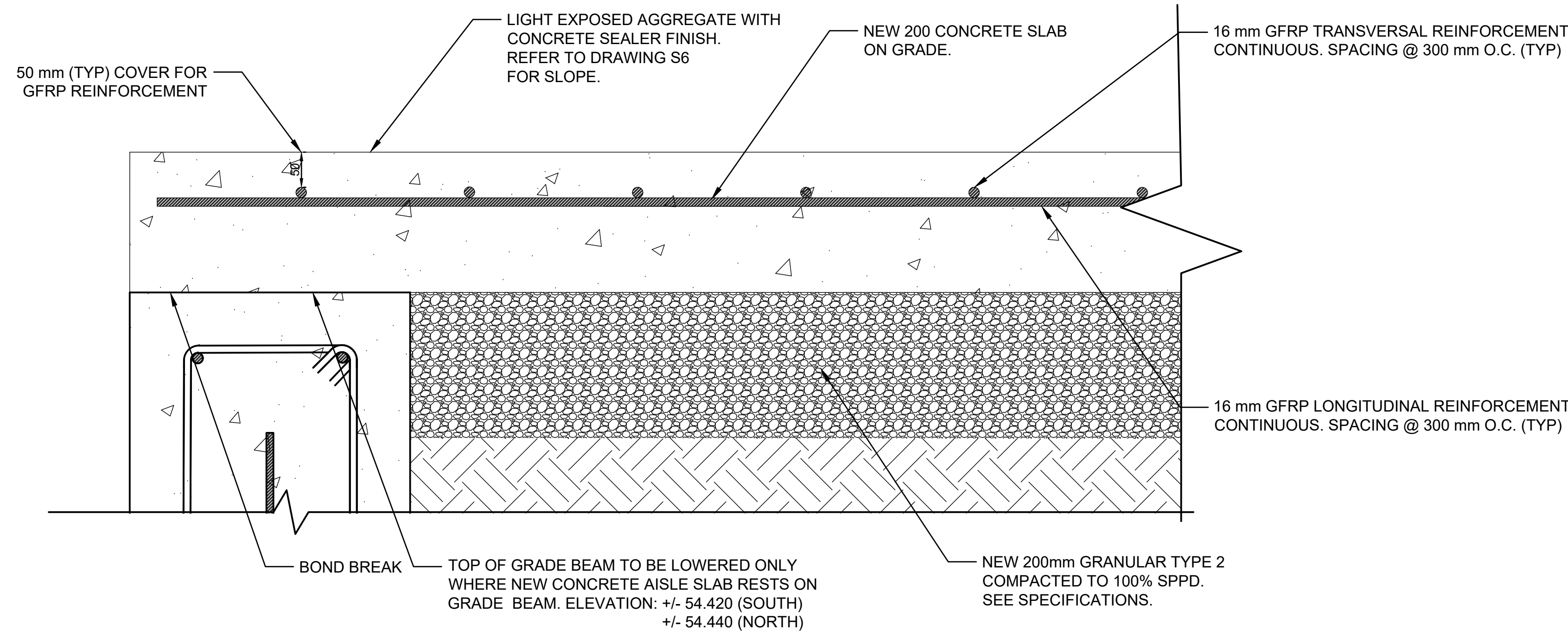
Drawn by Dessiné par  
D. PATEL

Approved by Approuvé par  
D. STEPHENSON, P.ENG

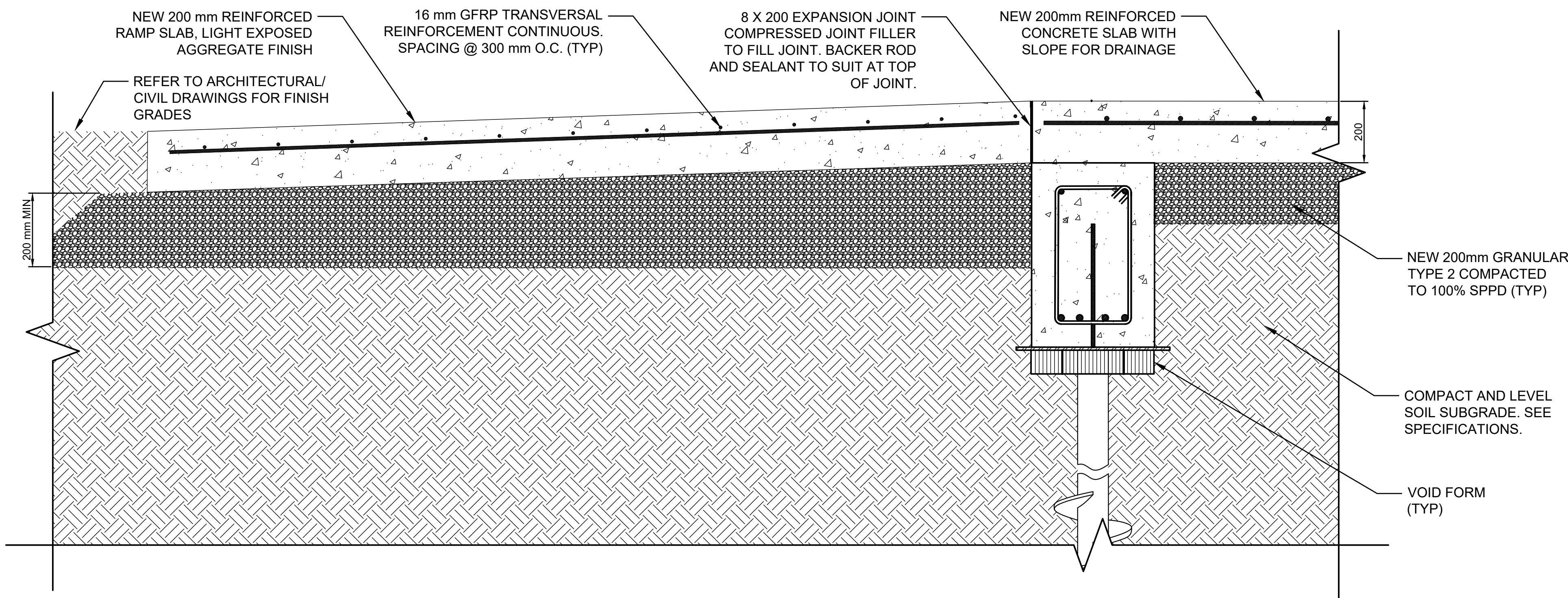
PWOSC Project Manager Administrateur de Projets TPSPC  
G. SPENCE

Drawing Title Titre du dessin  
CONCRETE SLAB AND  
RAMP REINFORCEMENT  
DETAILS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	S14 OF 16	

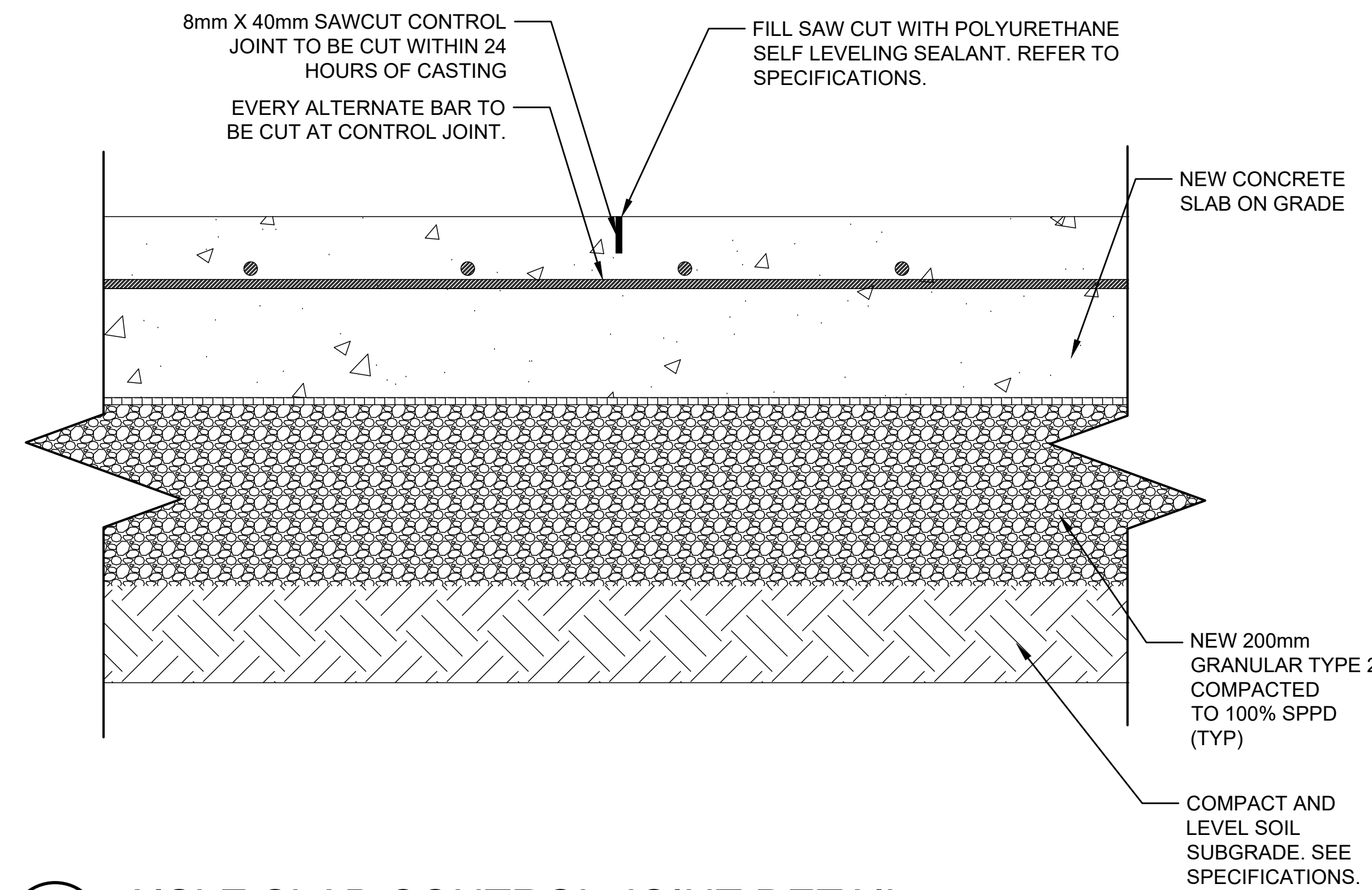


1 NEW CONCRETE AISLE SLAB / GRADE BEAM JUNCTION  
S14 1:5

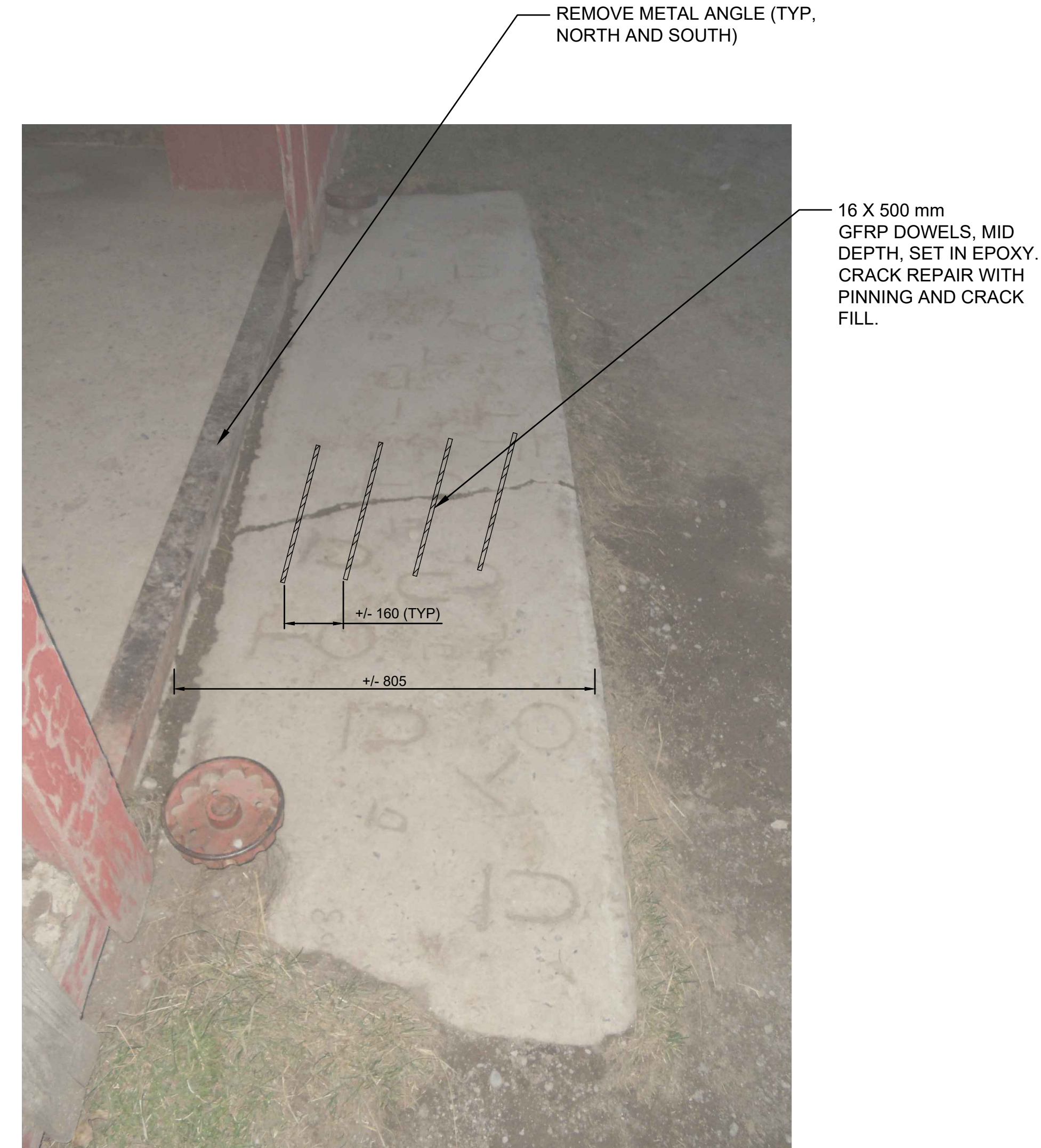


3 NEW RAMP AND SLAB JUNCTION (SOUTH)  
S14 1:10

- NOTES:
- 75mm C.C. CLEAR COVER AT TOP, BOTTOM AND SIDES OF GRADE BEAM.
  - 50mm C.C. CLEAR COVER AT TOP OF CONCRETE AISLE SLAB AND NEW RAMP.



2 AISLE SLAB CONTROL JOINT DETAIL  
S14 1:5



4 HISTORIC RAMP SLAB CRACK REPAIR/REINSTATEMENT  
S14 N.T.S





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<b>Revision</b>	<b>Description</b>	<b>Date</b>

**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

**Project**

**LONGVIEW, ALBERTA**

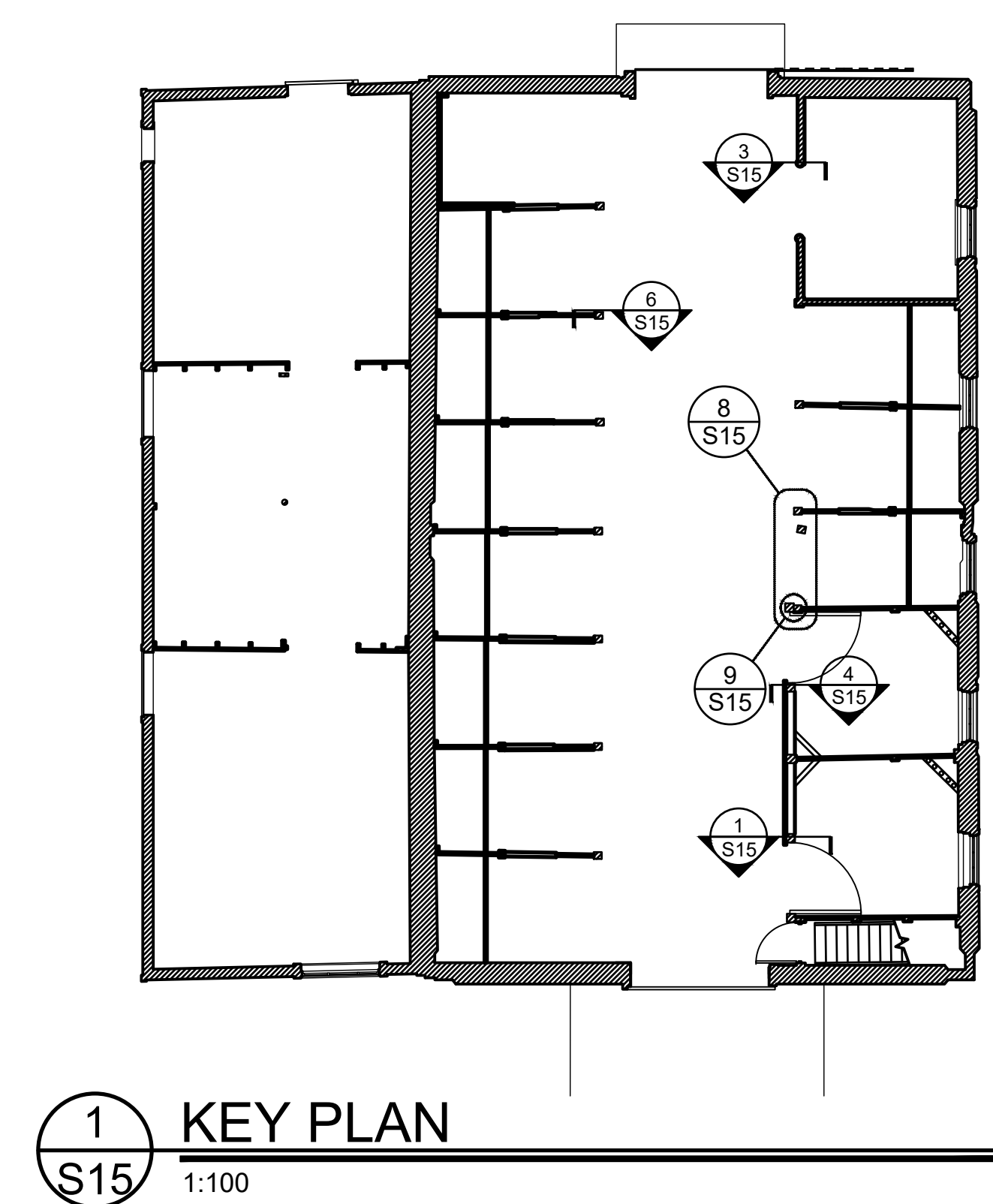
**2018-2019**

**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

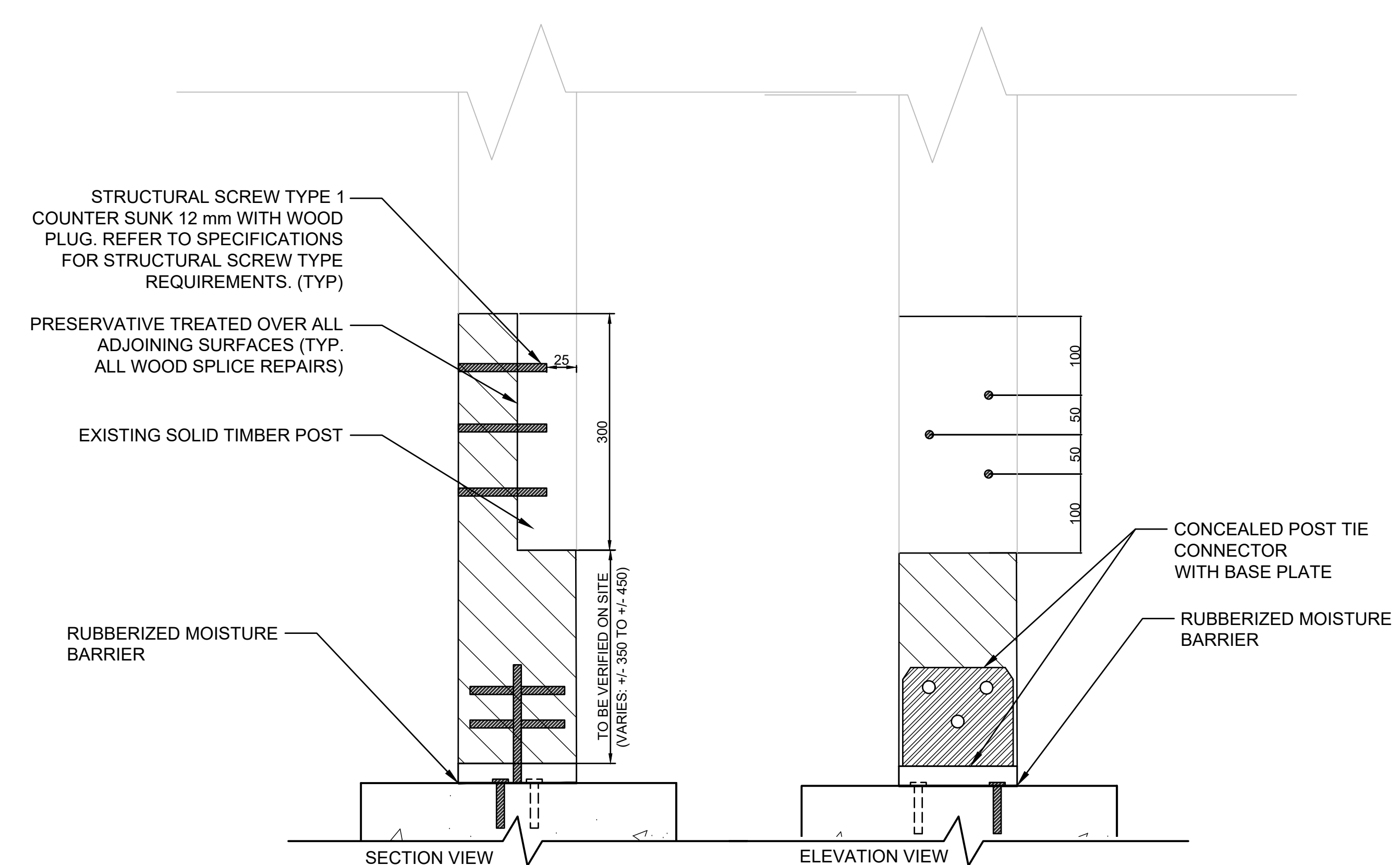
Designed by K. TYLOR, EIT / D. STEPHENSON, P.ENG	Completed by
Drawn by D. PATEL	Detailed by
Approved by D. STEPHENSON, P.ENG	Approved by
PMOSC Project Manager G. SPENCE	Administrateur de Projets T

### COLUMN WORK DETAILS

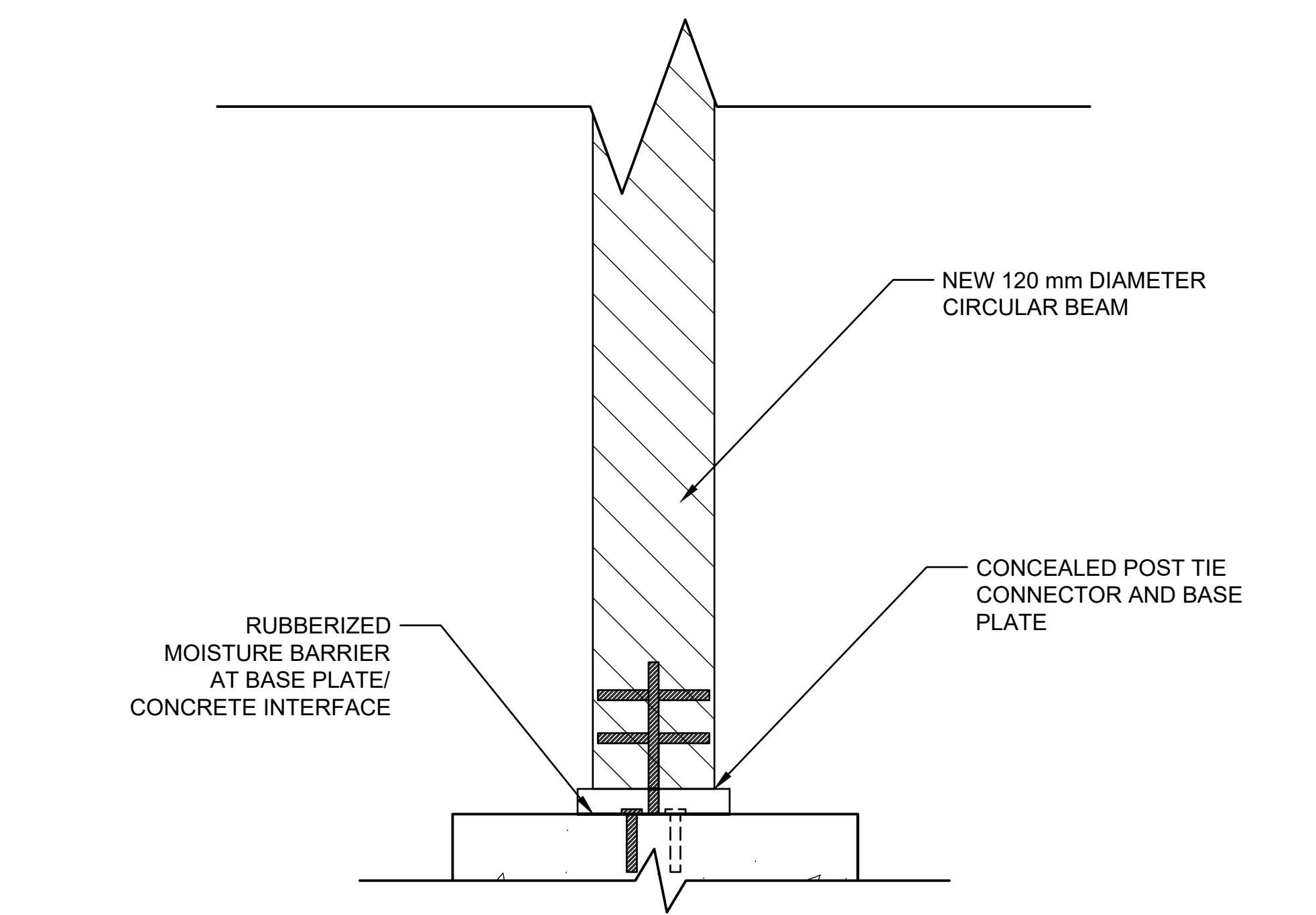
Project no./No. du projet	Drawing no./No. du dessin	Revision
R.083678.001	<b>S15</b> OF 16	



1 KEY PLAN  
S15 1:100



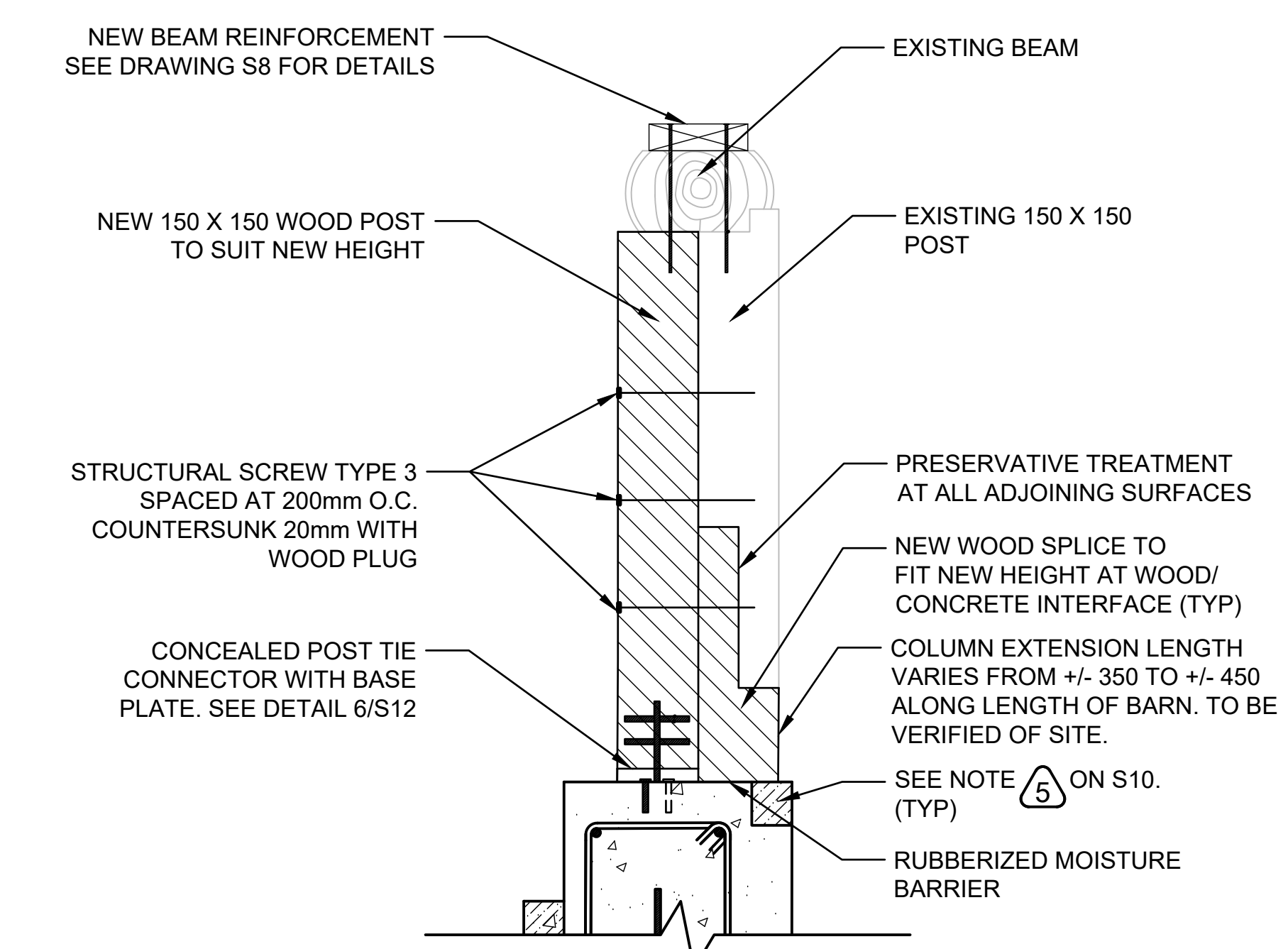
**SQUARE TIMBER POST SPLICE DETAIL**



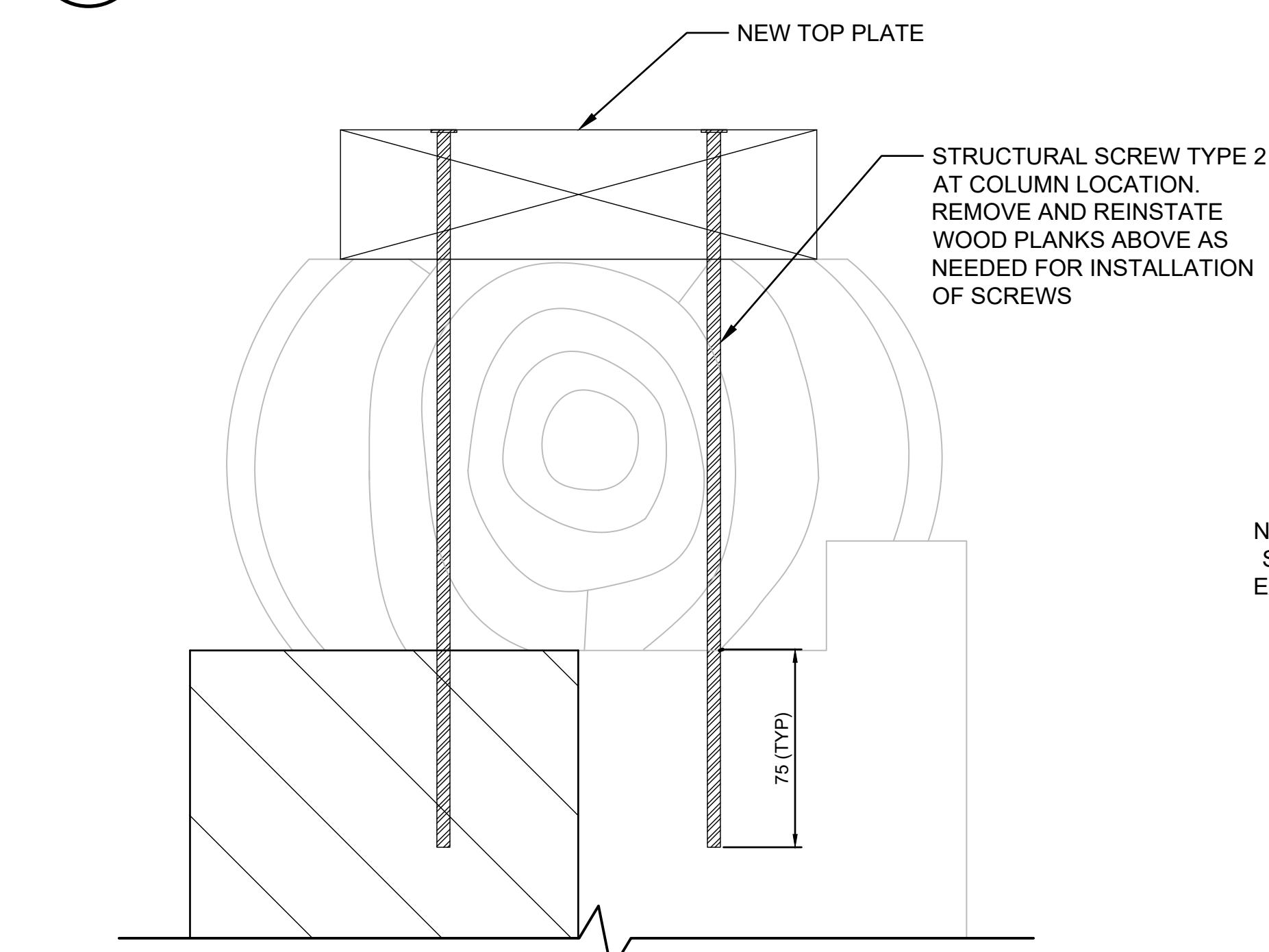
3  
S15

CIRCULAR WOOD POST REPLACEMENT DETAIL

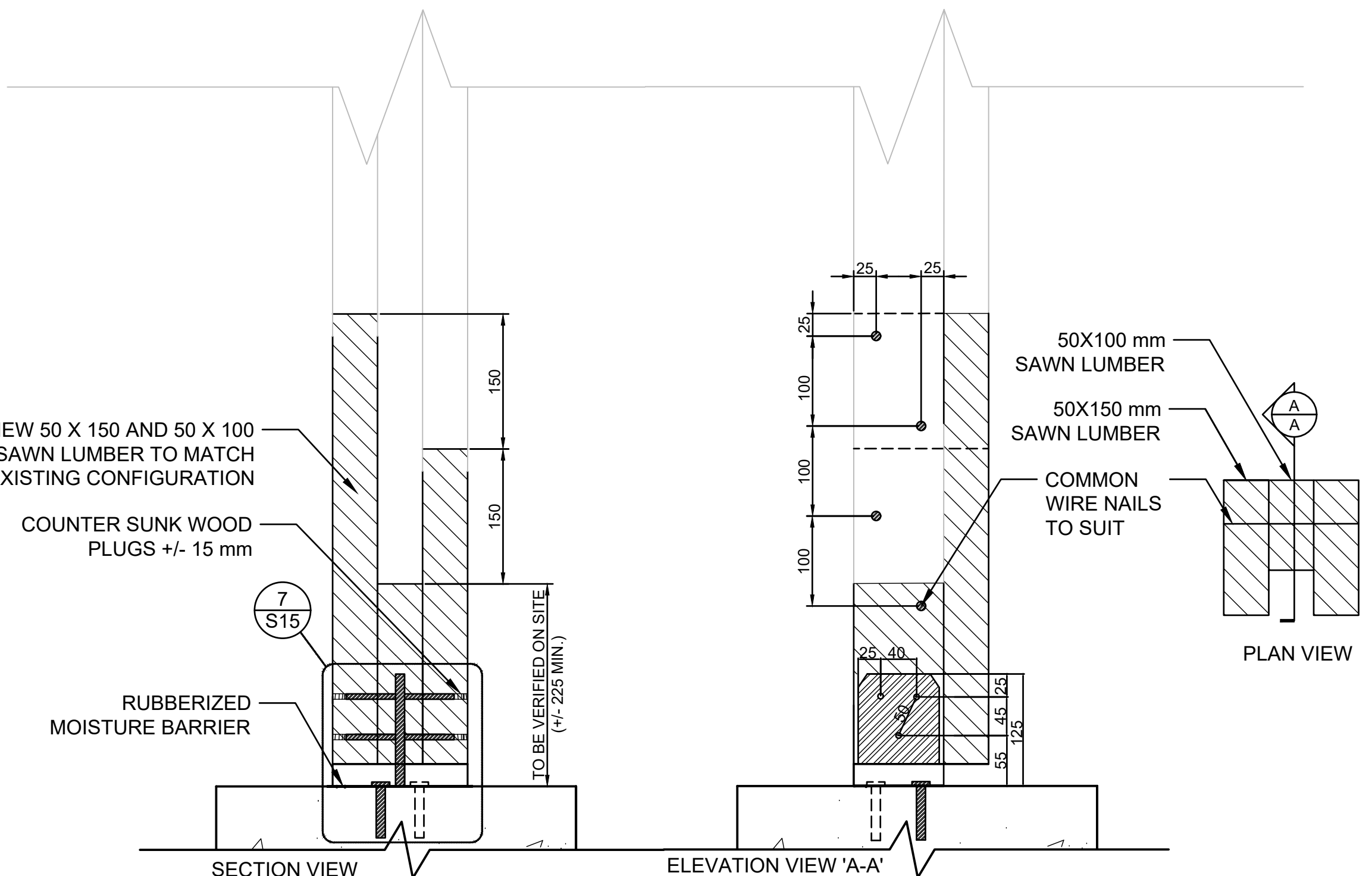
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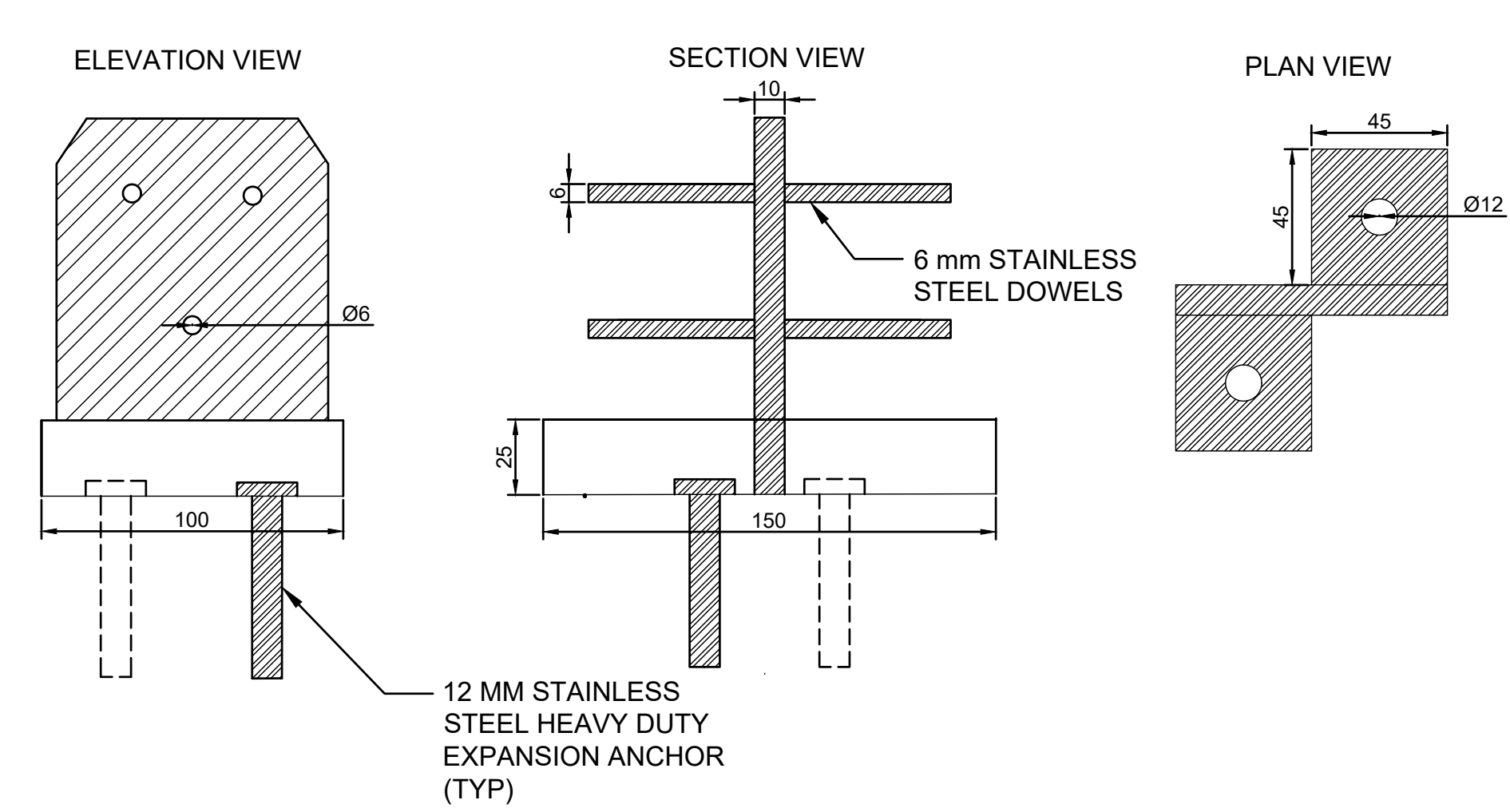
## 4 SQUARE POST SISTERING DETAIL



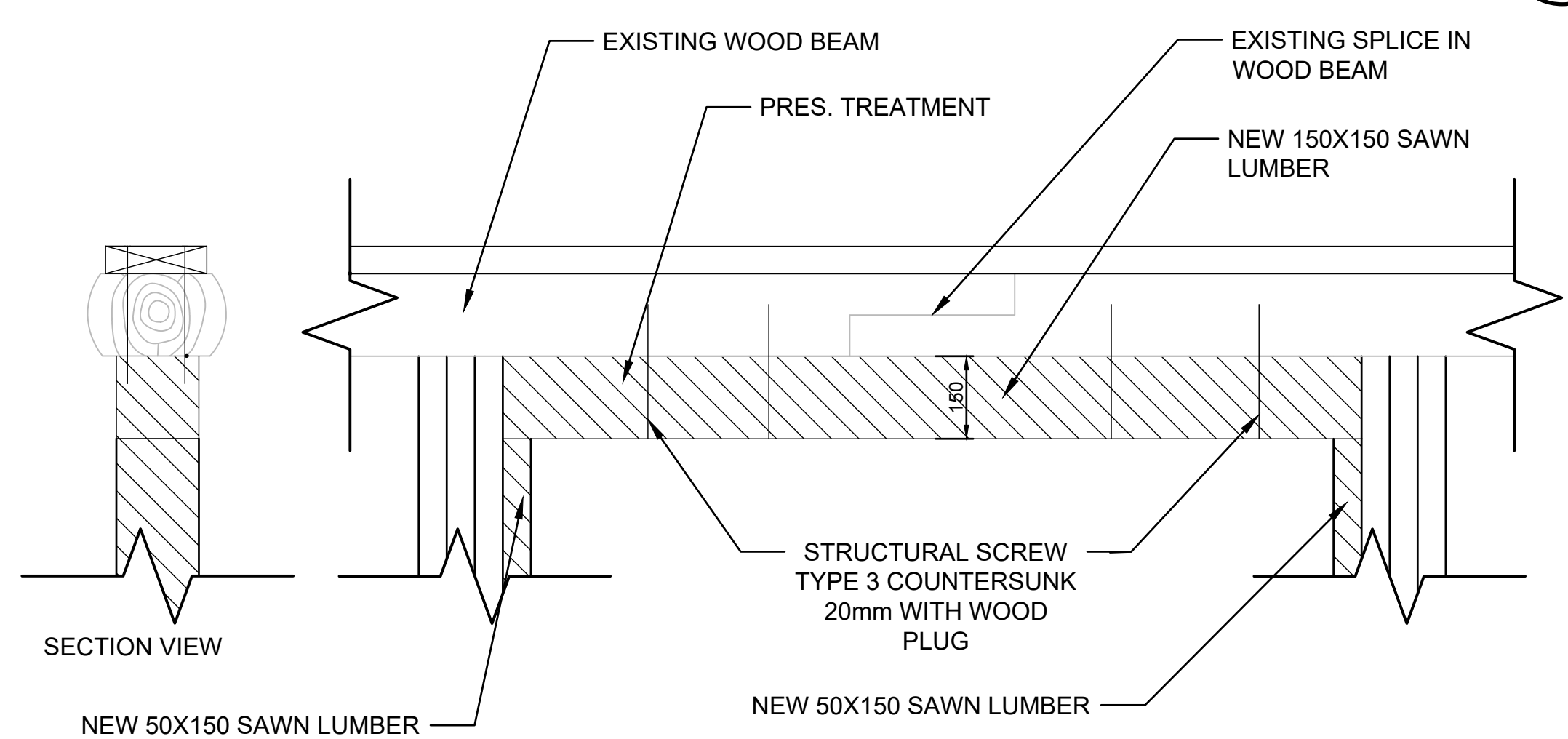
## 5 BEAM TO COLUMN CONNECTION



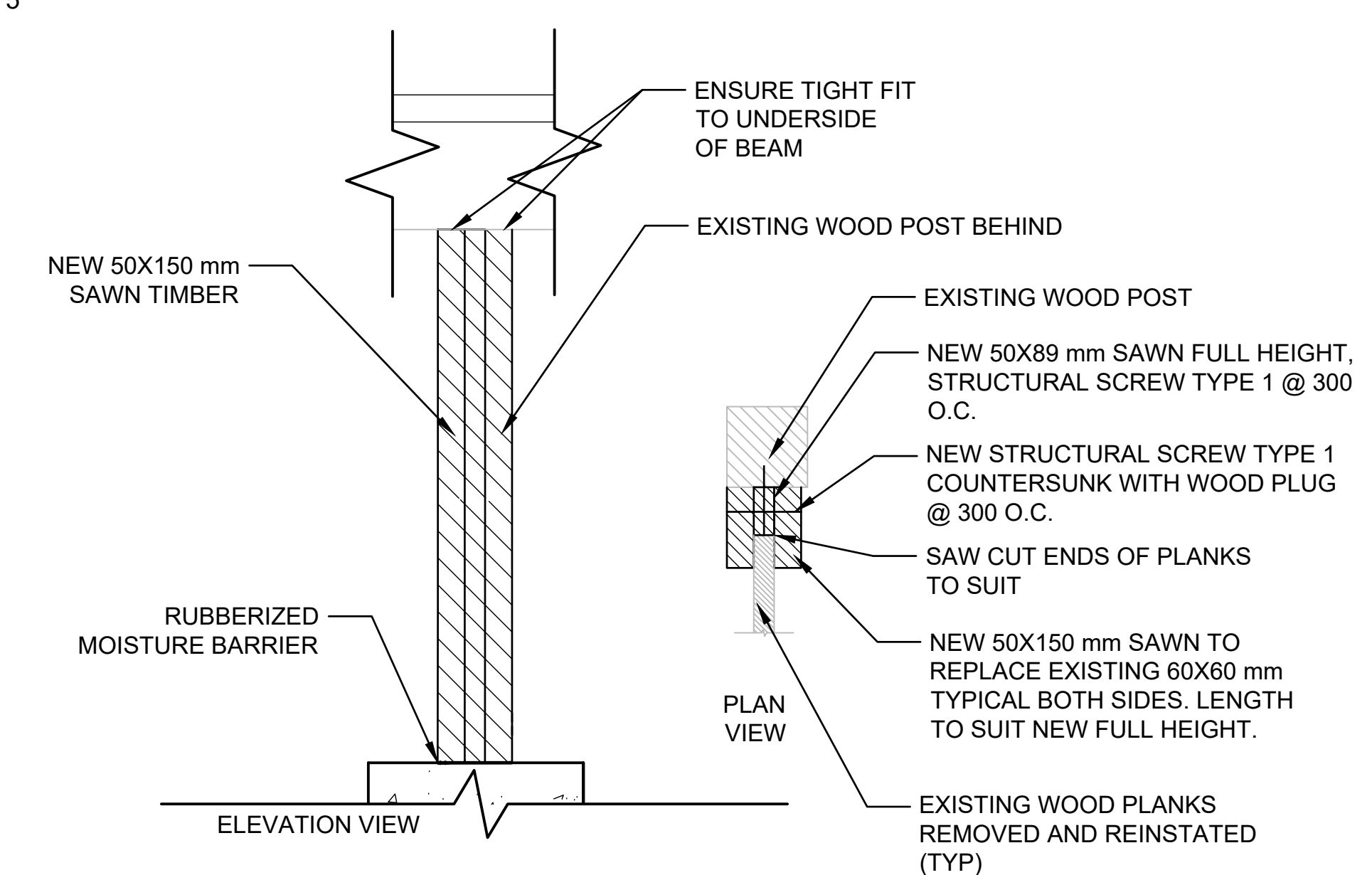
6 BUILT-UP 3-PLY WOOD POST EXTENSION DETAIL  
S15 1:5



**BUILT-UP 3-PLY POST BASE PLATE DETAIL**



8 BEAM SUPPORT DETAIL AT SPLICE  
S15 1 : 10



**9 POST SISTERING DETAIL - ADJACENT TO PLANK WALL**  
**S15** 1 : 10



GENERAL NOTES:

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A 'CLASSIFIED' BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF. DEPARTMENTAL REPRESENTATIVES MUST BE INFORMED IN ADVANCE OF SITE VISITS. REFER TO WRITTEN SPECIFICATIONS FOR ADVANCE NOTICE REQUIREMENTS FOR ALL WORK ACTIVITIES.
2. ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
3. THE DRAWINGS REPRESENT AN EXISTING BUILDING. BUILDING ALIGNMENT AND DIMENSIONS MAY VARY FROM THE DRAWINGS AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. SITE CONDITIONS WILL ALWAYS TAKE PRECEDENT.
4. REFER TO 'EX' DRAWING SET FOR ADDITIONAL DIMENSIONING. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
5. ALL DRAWINGS USE mm AS DIMENSIONAL UNITS UNLESS OTHERWISE NOTED.



Heritage Conservation Services  
Architecture and Engineering Services  
Real Property Branch  
Public Services and Procurement Canada

Services de la Conservation du Patrimoine  
Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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0	ISSUE FOR TENDER	2019/04/30

Revision	Description	Date
Client		client

PUBLIC SERVICES AND PROCUREMENT CANADA (PSPC)

Project LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by K. TYLOR, EIT / D. STEPHENSON, P.ENG

Drawn by D. PATEL

Approved by D. STEPHENSON, P.ENG

PWOSC Project Manager G. SPENCE

Administrateur de Projets TPSPC

Drawing Title

LOG AND STONE REPAIR  
DETAILS

Project no./No. du projet

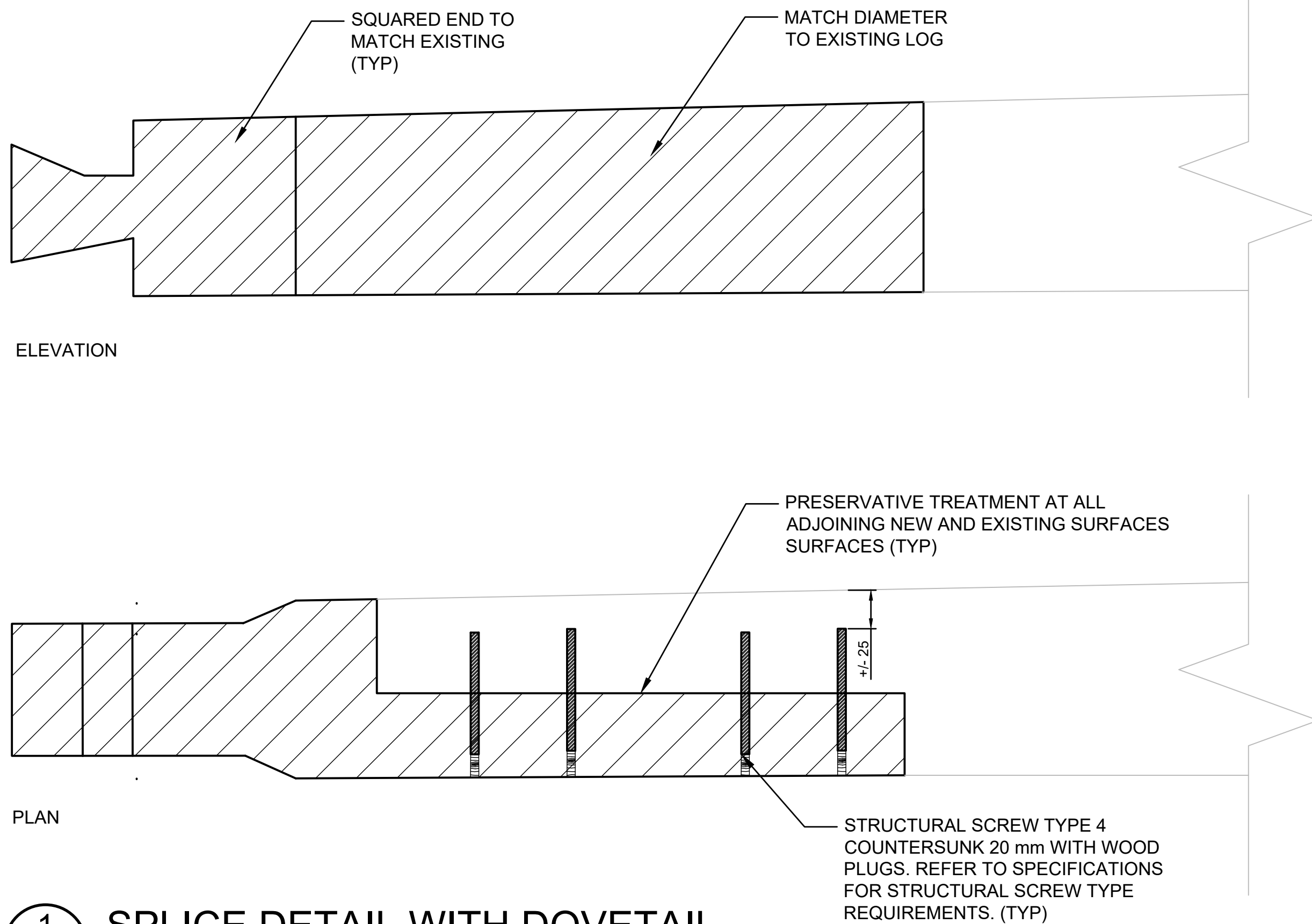
R.083678.001

Drawing no./No. du dessin

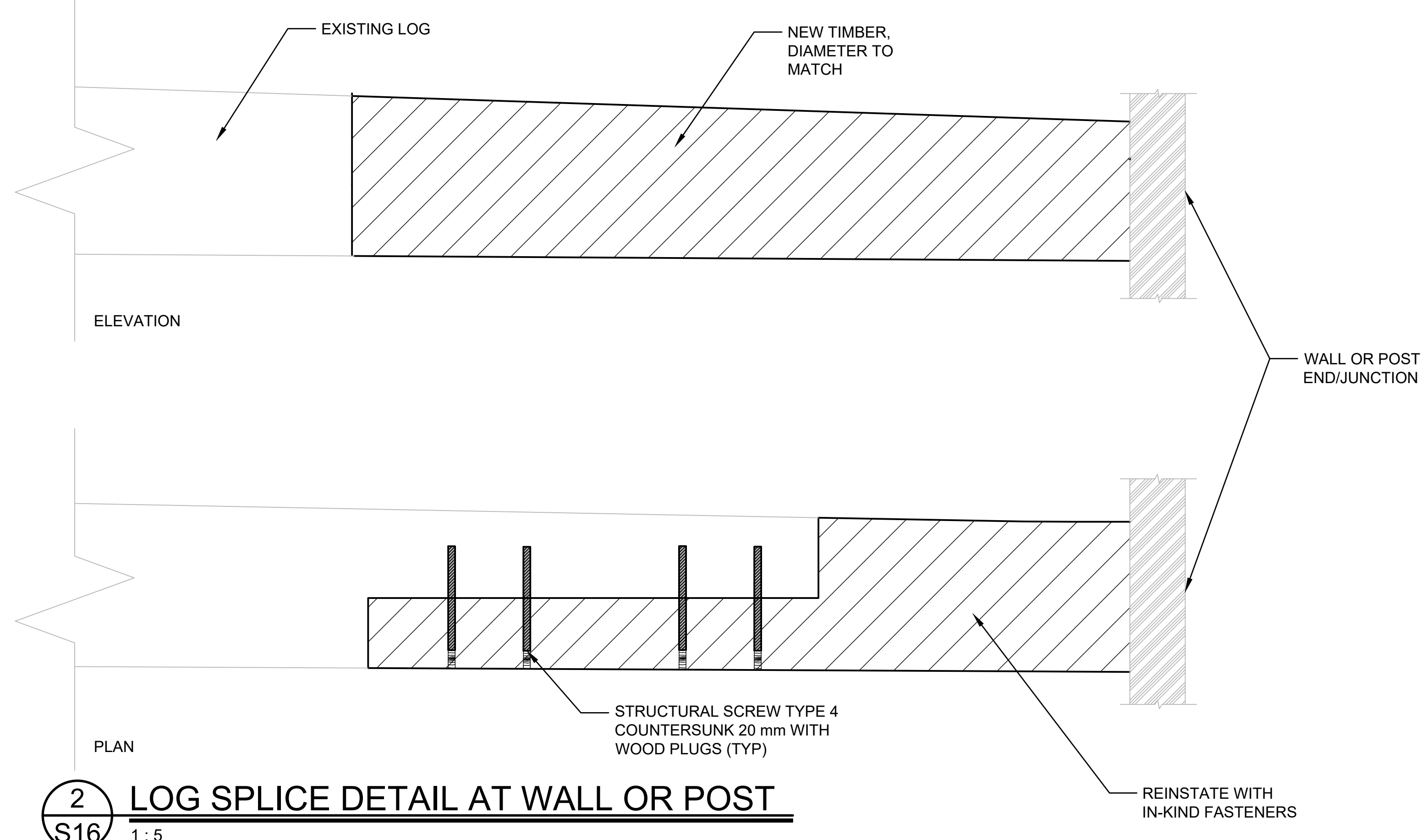
S16

Revision no.

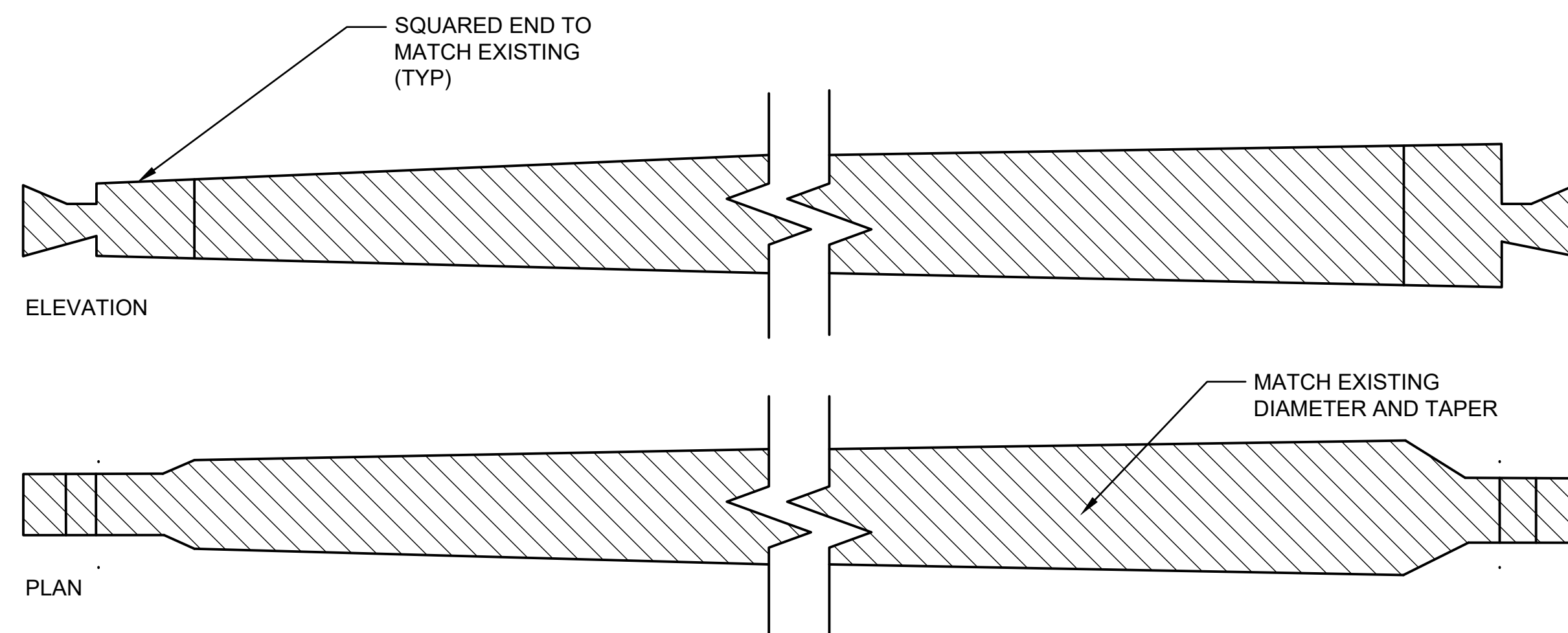
OF 16



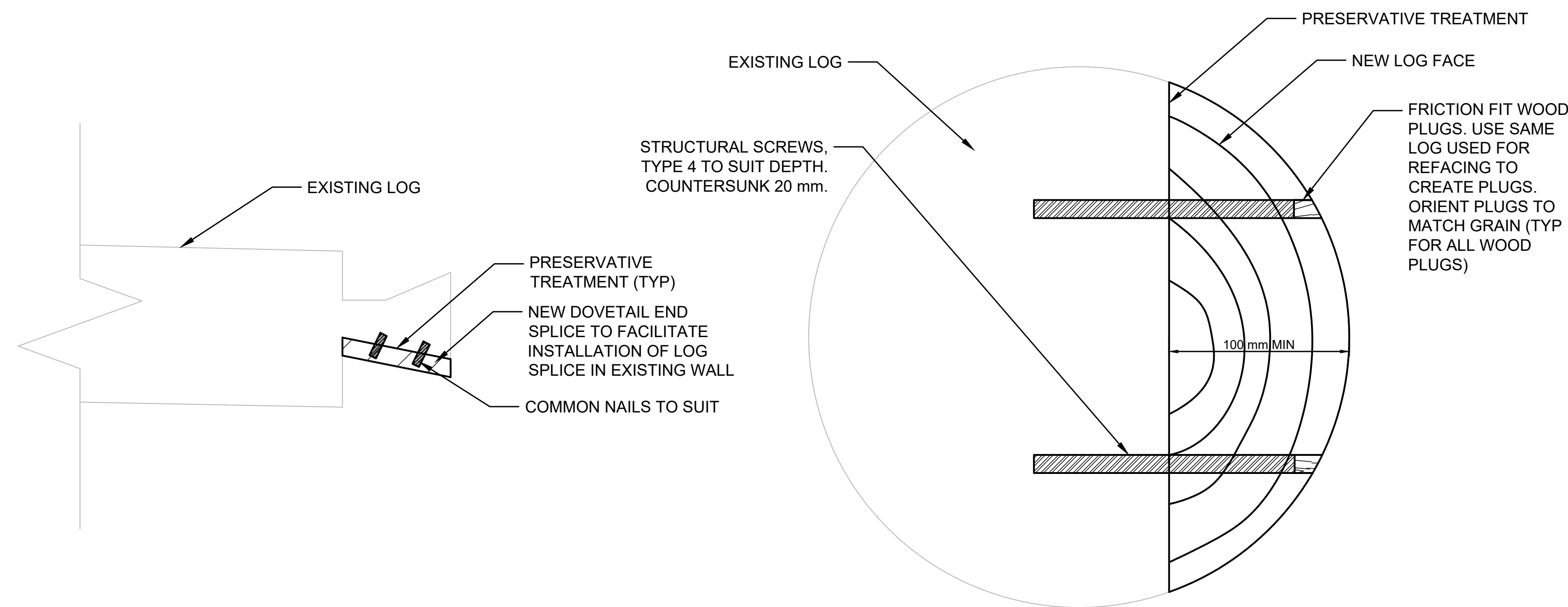
1 SPLICE DETAIL WITH DOVETAIL  
S16 1:5



2 LOG SPLICE DETAIL AT WALL OR POST  
S16 1:5

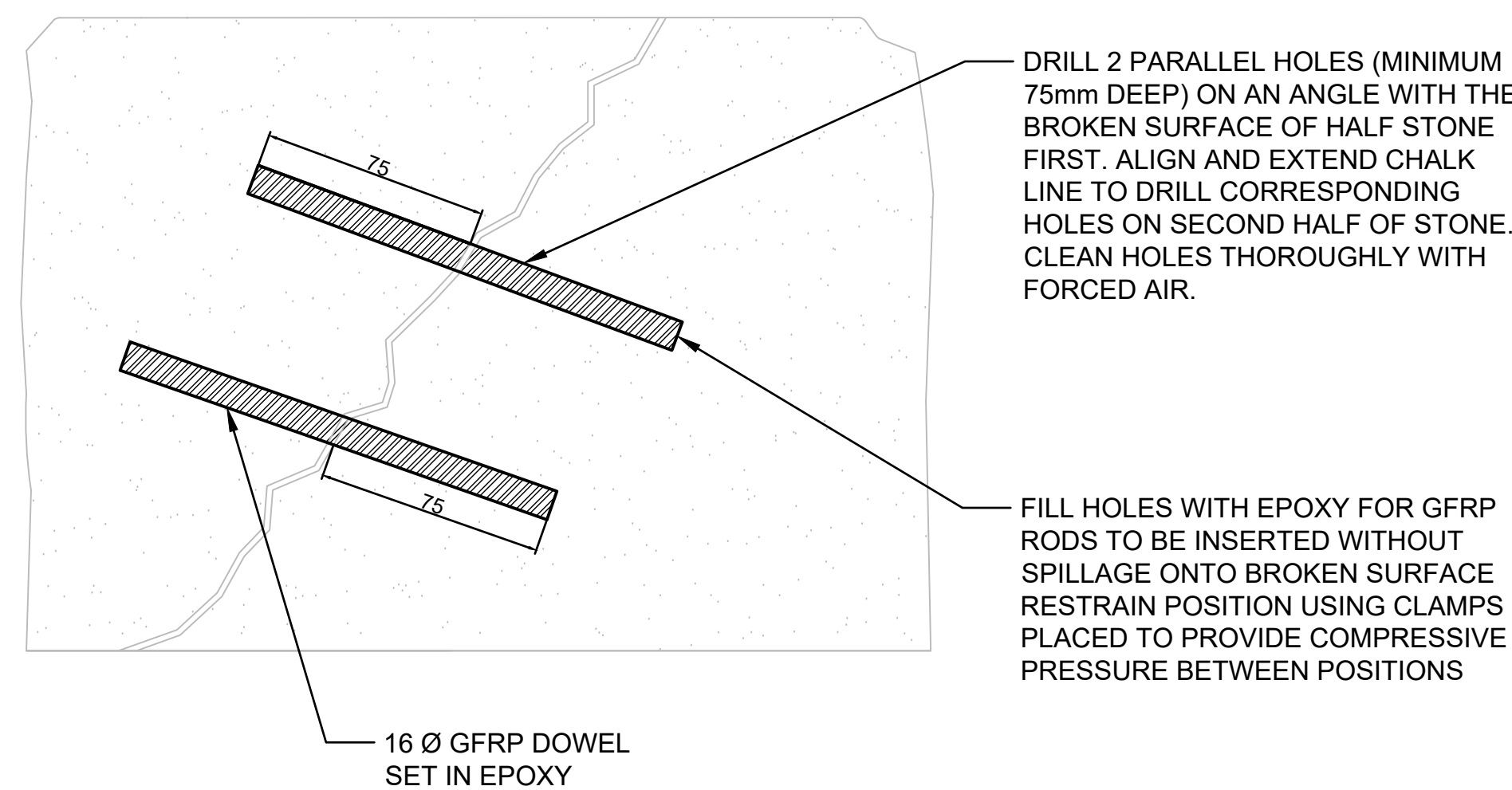


3 FULL LOG REPLACEMENT  
S16 1:10

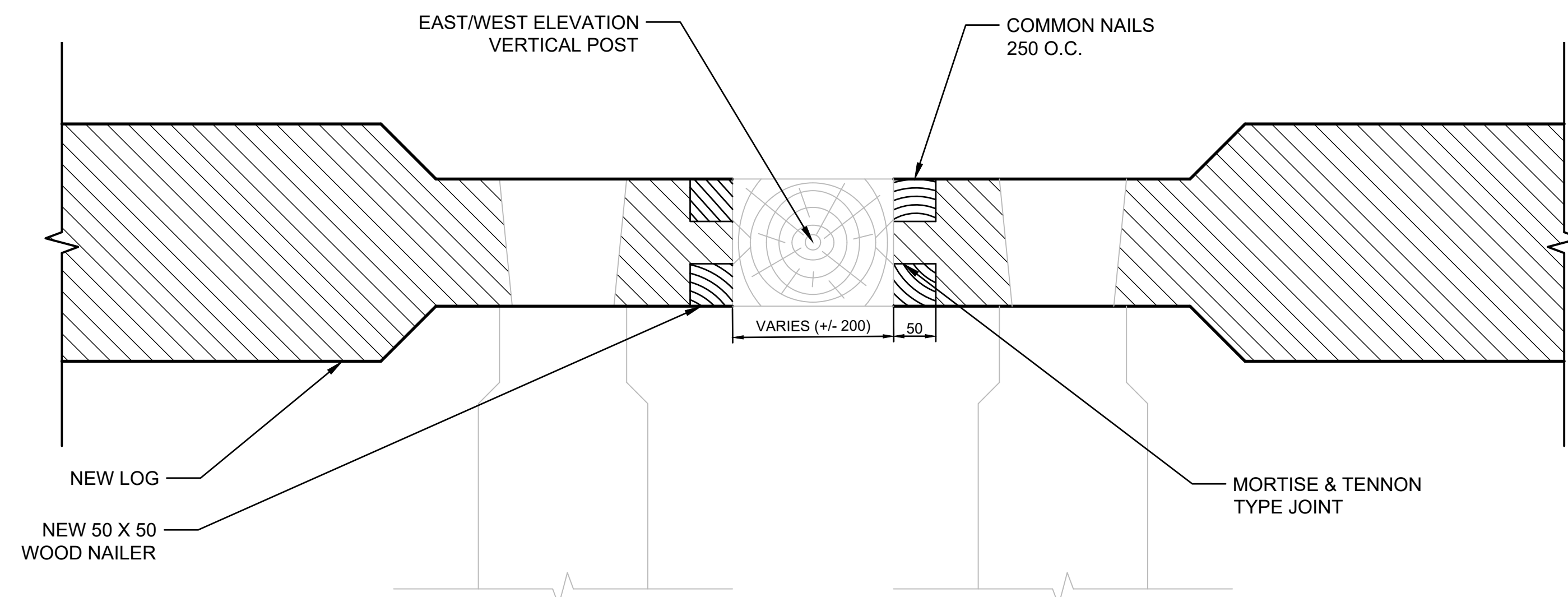


4 DOVETAIL END SPLICE DETAIL  
S16 1:5

5 LOG REFACING - EXTERIOR  
S16 1:2



6 STONE PINNING DETAIL  
S16 1:2



7 LOG TO EAST/WEST ELEVATION POST DETAIL  
S16 N.T.S.

- NOTES:
1. LOG SIZES ARE DIAGRAMMATIC
  2. DOVETAIL END SIZES VARY BASED ON LOG SIZE. DETAILS ARE DIAGRAMMATIC. CONTRACTOR TO VERIFY EXISTING DIMENSIONS ON SITE PRIOR TO CUTTING NEW LOGS.
  3. CONTRACTOR TO VERIFY ALL CONNECTIONS AND CONDITIONS OF NOTCHES AND BEAM/JOIST POCKETS.



FOR TENDER



April 29, 2019

PERMIT TO PRACTICE  
MPE ENGINEERING LTD.  
PERMIT NUMBER: P 3680  
The Association of Professional  
Engineers and Geoscientists of Alberta

5		
4		
3		
2		
1		
0	Issued for Tender	20190430

Revision	Description	Date
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Client client

Project Project

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION  
  
2018-2019  
LONGVIEW, ALBERTA

Designed by Conçu par  
P.P.G.

Drawn by Dessiné par  
C.R.S.

Approved by Approuvé par

PWGSC Project Manager Administrateur de Projets TPSCG

Drawing title Titre du dessin

ELECTRICAL  
LEGEND


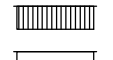

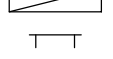

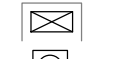
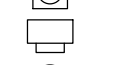
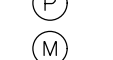
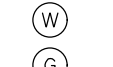
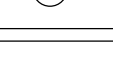
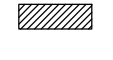


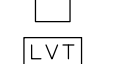


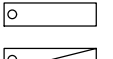
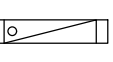
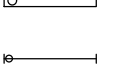

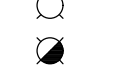
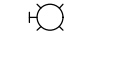

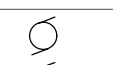
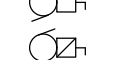

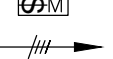

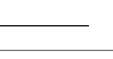

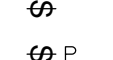
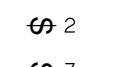

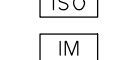








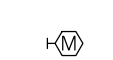
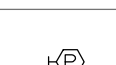
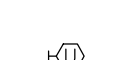
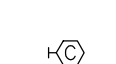


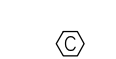
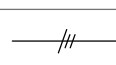
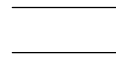
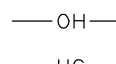

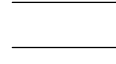






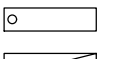
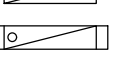



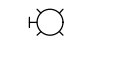

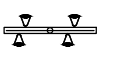
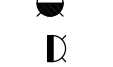

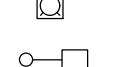
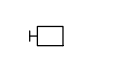


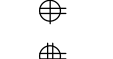
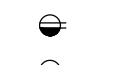

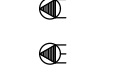
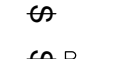
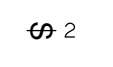
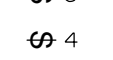
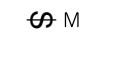
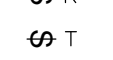
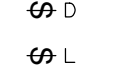
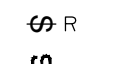



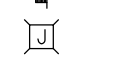
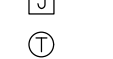
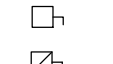





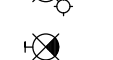
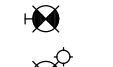
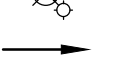

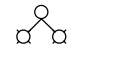

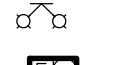
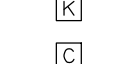

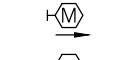
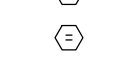
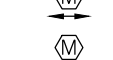
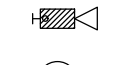

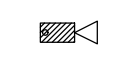
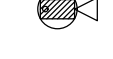
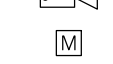


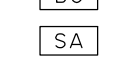


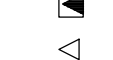

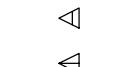




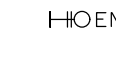
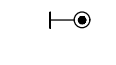
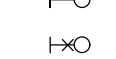
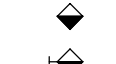


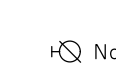

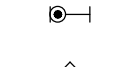



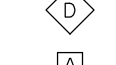

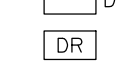
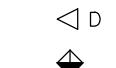





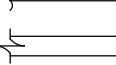
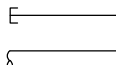





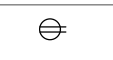
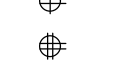
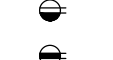

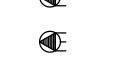
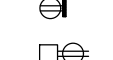
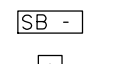


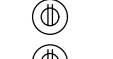
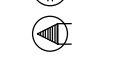


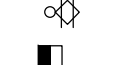




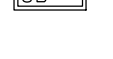










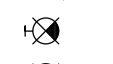

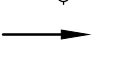

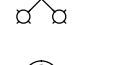


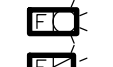












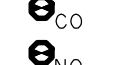











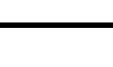




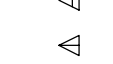


Project no./No. du projet Drawing no./No. du dessin Revision no.

R.083678.001

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DISTRIBUTION	POWER CONTINUED	LIFE SAFETY CONTINUED	OCCUPANCY SENSORS	MISCELLANEOUS AND LABELS CONTINUED
<div><div></div>CONDUIT IDENTIFICATION TAG</div> <div><div></div>LIGHTING/POWER PANEL</div> <div><div></div>DATA PANEL</div> <div><div></div>INTERCOM PANEL</div> <div><div></div>FIRE ANNUNCIATOR PANEL</div> <div><div></div>GROUND BAR</div> <div><div></div>PLYWOOD BACKBOARD</div> <div><div></div>EXTERIOR TRANSFORMER</div> <div><div></div>DRY TYPE TRANSFORMER</div> <div><div></div>METERING CABINET GREATER THAN 200A</div> <div><div></div>UTILITY METER PLAN</div> <div><div></div>POWER METER</div> <div><div></div>ELECTRIC UTILITY METER 200A AND LESS</div> <div><div></div>WATER METER</div> <div><div></div>GAS METER</div> <div><div></div>SPLITTER</div> <div><div></div>ELECTRICAL CENTRAL DISTRIBUTION PANEL (CDP)</div> <div><div></div>ELECTRICAL MOTOR CONTROL CENTRE (MCC)</div> <div><div></div>ELECTRICAL MAIN DISTRIBUTION BOARD</div> <div><div></div>TRANSFER SWITCH WITH BY-PASS</div> <div><div></div>TRANSFER SWITCH</div> <div><div></div>120/24V LOW VOLTAGE TRANSFORMER</div> <div><div></div>WEATHER HEAD</div>	<div><div></div>MOTOR</div> <div><div></div>MOTOR WITH DISCONNECT SWITCH</div> <div><div></div>MOTOR WITH FUSIBLE DISCONNECT SWITCH</div> <div><div></div>MOTOR WITH COMBINATION DISCONNECT SWITCH</div> <div><div></div>MAGNETIC MOTOR STARTER</div> <div><div></div>HOME RUN WITH WIRE COUNT</div> <div><div></div>WIRELESS ACCESS POINT</div> <div><div></div>ELECTRICAL HEATING</div> <div><div></div>HEAT TRACING</div>	<div><div></div>FIRE RELAY MODULE</div> <div><div></div>ISOLATION MODULE</div> <div><div></div>ADDRESSABLE INPUT MODULE</div> <div><div></div>FIRE ALARM CONTROL PANEL</div> <div><div></div>FIRE ALARM ANNUNCIATOR PANEL</div> <div><div></div>FIRE ALARM PASSIVE GRAPHIC</div> <div><div></div>FLOW SWITCH</div> <div><div></div>SOLENOID VALVE</div> <div><div></div>PRESSURE SWITCH</div> <div><div></div>TAMPER VALVE</div> <div><div></div>END OF LINE DEVICE</div>	<div><div></div>WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR</div> <div><div></div>WALL MOUNTED ULTRA SONIC OCCUPANCY SENSOR</div> <div><div></div>WALL MOUNTED PASSIVE INFRARED/ULTRASONIC OCCUPANCY SENSOR</div> <div><div></div>CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR</div> <div><div></div>CEILING MOUNTED ULTRA SONIC OCCUPANCY SENSOR</div> <div><div></div>CEILING MOUNTED PASSIVE INFRARED/ULTRASONIC OCCUPANCY SENSOR</div>	<div><div></div>WIRE COUNT</div> <div><div></div>CONDUIT RUN UP</div> <div><div></div>CONDUIT RUN DOWN</div> <div><div></div>OVERHEAD POWER</div> <div><div></div>UNDERGROUND POWER</div> <div><div></div>CONDUCTOR/CONDUIT</div> <div><div></div>UNDERGROUND CONDUCTOR/CONDUIT</div> <div><div></div>FLEXIBLE CONDUIT</div> <div><div></div>EXISTING EQUIPMENT</div> <div><div></div>NEW EQUIPMENT</div> <div><div></div>EQUIPMENT TO BE REMOVED</div>
LIGHTING	SWITCHES AND JUNCTIONS BOXES	SECURITY	NURSE CALL	SYMBOLS AND CIRCUITS LEGEND
<div><div></div>SURFACE MOUNTED LIGHT FIXTURE</div> <div><div></div>RECESSED LIGHT FIXTURE</div> <div><div></div>RECESSED LIGHT FIXTURE WITH END PLATES</div> <div><div></div>SURFACE MOUNTED STRIP LIGHT FIXTURE</div> <div><div></div>UNDER CABINET/VALENCE STRIP LIGHT FIXTURE</div> <div><div></div>WALL MOUNTED CUBED LIGHT FIXTURE</div> <div><div></div>SURFACE MOUNTED LIGHT FIXTURE</div> <div><div></div>RECESSED LIGHT FIXTURE</div> <div><div></div>WALL MOUNTED LIGHT FIXTURE</div> <div><div></div>WALL MOUNTED LIGHT FIXTURE ON EMERGENCY</div> <div><div></div>TRACK LIGHT C/W PENDANT HEADS</div> <div><div></div>TRACK LIGHT C/W ADJUSTABLE HEADS</div> <div><div></div>LANDSCAPE UPLIGHT FIXTURE</div> <div><div></div>RECESSED STEP LIGHT FIXTURE</div> <div><div></div>SURFACE MOUNTED HOT TUB/POOL LIGHT FIXTURE</div> <div><div></div>BOLLARD LIGHT FIXTURE</div> <div><div></div>POLE MOUNTED LIGHT FIXTURE (ONE HEAD SHOWN)</div> <div><div></div>WALL MOUNTED HID LIGHT FIXTURE</div>	<div><div></div>LINE VOLTAGE SWITCH</div> <div><div></div>SWITCH C/W PILOT LIGHT</div> <div><div></div>TWO POLE SWITCH</div> <div><div></div>THREE WAY SWITCH</div> <div><div></div>FOUR WAY SWITCH</div> <div><div></div>MANUAL MOTOR PROTECTION SWITCH C/W PILOT LIGHT</div> <div><div></div>KEY OPERATED SWITCH - CYLINDER TYPE</div> <div><div></div>TIMER SWITCH</div> <div><div></div>DIMMER SWITCH - SLIDER TYPE</div> <div><div></div>INTERNALLY ILLUMINATED LIGHT SWITCH</div> <div><div></div>LOW VOLTAGE SWITCH</div> <div><div></div>2 GANG SWITCH</div> <div><div></div>3 GANG SWITCH</div> <div><div></div>4 GANG SWITCH</div> <div><div></div>5 GANG SWITCH</div> <div><div></div>WALL MOUNTED PHOTOCELL</div> <div><div></div>WALL MOUNTED JUNCTION BOX</div> <div><div></div>FLOOR MOUNTED JUNCTION BOX</div> <div><div></div>SQUARE CEILING MOUNTED JUNCTION BOX</div> <div><div></div>THERMOSTAT</div> <div><div></div>NON-FUSEABLE DISCONNECT SWITCH</div> <div><div></div>FUSEABLE DISCONNECT SWITCH</div> <div><div></div>COMBINATION MAGNETIC HOA STARTER</div> <div><div></div>O/H DOOR PUSH BUTTON</div> <div><div></div>PULL BOX</div>	<div><div></div>WALL MOUNTED SECURITY KEYPAD</div> <div><div></div>WALL MOUNTED CARD READER</div> <div><div></div>WALL MOUNTED REQUEST TO EXIT PUSH BUTTON</div> <div><div></div>WALL MOUNTED MOTION SENSOR</div> <div><div></div>WALL MOUNTED DAY LIGHT HARVESTING</div> <div><div></div>CEILING MOUNTED DAY LIGHT HARVESTING</div> <div><div></div>CEILING MOUNTED MOTION SENSOR</div> <div><div></div>CEILING MOUNTED DAY LIGHT HARVESTING</div> <div><div></div>WALL MOUNTED CCTV CAMERA - FIXED</div> <div><div></div>WALL MOUNTED CCTV CAMERA - PAN, TILT, ZOOM</div> <div><div></div>WALL MOUNTED CCTV CAMERA - FUTURE</div> <div><div></div>CEILING MOUNTED CCTV CAMERA - FIXED</div> <div><div></div>CEILING MOUNTED CCTV CAMERA - PAN, TILT, ZOOM</div> <div><div></div>CEILING MOUNTED CCTV CAMERA - FUTURE</div> <div><div></div>MAGNETIC DOOR LOCK</div> <div><div></div>MAGNETIC DOOR HOLD OPEN DEVICE</div> <div><div></div>DOOR POSITION SWITCH (DOOR CONTACT)</div> <div><div></div>ELECTRIC STRIKE</div> <div><div></div>BREAK GLASS SENSOR</div> <div><div></div>SONALERT BUZZER</div>	<div><div></div>SINGLE PATIENT STATION - NURSE CALL</div> <div><div></div>SINGLE PATIENT STATION WITH ENTERTAINMENT - NURSE CALL</div> <div><div></div>DOUBLE PATIENT STATION - NURSE CALL</div> <div><div></div>DOUBLE PATIENT STATION WITH ENTERTAINMENT - NURSE CALL</div> <div><div></div>WALL MOUNTED STAFF EMERGENCY STATION - NURSE CALL</div> <div><div></div>STAFF STATION - NURSE CALL</div> <div><div></div>STAFF STATION WITH ELBOW SWITCH</div> <div><div></div>CEILING MOUNTED NURSE CALL ZONE LIGHT</div> <div><div></div>WALL MOUNTED NURSE CALL ZONE LIGHT</div> <div><div></div>CEILING MOUNTED ZONE LIGHT (No. OF ROOMS)</div> <div><div></div>WALL MOUNTED ZONE LIGHT (No. OF ROOMS)</div> <div><div></div>CEILING MOUNTED NURSE CALL DOME LIGHT (No. OF ROOMS)</div> <div><div></div>WALL MOUNTED NURSE CALL DOME LIGHT (No. OF ROOMS)</div> <div><div></div>EMERGENCY LAVATORY PUSHBUTTON LAVATORY STATION C/W PUSHBUTTON AND PULL CORD</div> <div><div></div>WALL MOUNTED STAFF PRESENCE STATION</div> <div><div></div>NURSE CALL MASTER STATION</div> <div><div></div>NURSE CALL CODE BLUE</div> <div><div></div>NURSE CALL CODE BLUE STATION</div> <div><div></div>NURSE CALL DUTY STATION</div> <div><div></div>NURSE CALL AUDIO CONTROL OUTLET</div> <div><div></div>NURSE CALL CABINET</div> <div><div></div>MAIN DICTATION OUTLET</div> <div><div></div>DOCTORS REGISTER STATION</div> <div><div></div>RECESSED MOUNTED DOCTORS DICTATION</div> <div><div></div>CEILING MOUNTED OPTO ELECTRONIC SENSOR</div>	<div><div></div>TYPICAL LIGHT CIRCUIT:</div> <div><div></div>RELAY NUMBER</div> <div><div></div>SWITCH CONTROL (LOWER CASE: a, b, c, ETC.)</div> <div><div></div>CIRCUIT NUMBER (1, 2, 3, ETC.)</div> <div><div></div>ELECTRICAL PANEL IDENTIFICATION</div>
POWER	LIFE SAFETY	COMMUNICATIONS	MISCELLANEOUS AND LABELS	TYPICAL SWITCH:
<div><div></div>DUPLEX RECEPTACLE</div> <div><div></div>SPLIT FEED RECEPTACLE</div> <div><div></div>FOURPLEX RECEPTACLE</div> <div><div></div>SWITCHED DUPLEX RECEPTACLE</div> <div><div></div>20A T-SLOT RECEPTACLE (KITCHEN)</div> <div><div></div>TWISTLOCK RECEPTACLE</div> <div><div></div>208 VOLT 1PH RECEPTACLE</div> <div><div></div>208 VOLT 3PH RECEPTACLE</div> <div><div></div>WALL MOUNTED USB PORT</div> <div><div></div>PEDESTAL DUPLEX RECEPTACLE</div> <div><div></div>WALL MOUNTED MULTI-GANG BOX</div> <div><div></div>WALL MOUNTED PUSH BUTTON</div> <div><div></div>WALL MOUNTED SURGE PROTECTIVE DEVICE (SPD OR TVSS)</div> <div><div></div>WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD)</div> <div><div></div>CEILING MOUNTED DUPLEX RECEPTACLE</div> <div><div></div>CEILING MOUNTED FOURPLEX RECEPTACLE</div> <div><div></div>CEILING MOUNTED 208 VOLT 1PH RECEPTACLE</div> <div><div></div>CEILING MOUNTED 208 VOLT 3PH RECEPTACLE</div> <div><div></div>AUXILIARY RELAY</div> <div><div></div>CEILING MOUNTED POWER ZONE BOX</div> <div><div></div>REEL DOWN RECEPTACLE</div> <div><div></div>PACK POLE</div> <div><div></div>FLOOR MOUNTED DUPLEX RECEPTACLE (No. of OUTLETS)</div> <div><div></div>FLOOR MOUNTED FOURPLEX RECEPTACLE (No. of OUTLETS)</div> <div><div></div>FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE</div> <div><div></div>FLOOR MOUNTED 208 VOLT 3PH RECEPTACLE</div> <div><div></div>FLOOR MOUNTED MULTI-GANG BOX</div>	<div><div></div>CEILING MOUNTED EXIT LIGHT SINGLE FACE</div> <div><div></div>CEILING MOUNTED EXIT LIGHT DOUBLE FACE</div> <div><div></div>CEILING COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY</div> <div><div></div>WALL MOUNTED EXIT LIGHT SINGLE FACE</div> <div><div></div>WALL MOUNTED EXIT LIGHT DOUBLE FACE</div> <div><div></div>WALL COMBINATION EXIT SIGN AND EMERGENCY LIGHT C/W BATTERY</div> <div><div></div>EXIT LIGHT DIRECTIONAL ARROW</div> <div><div></div>WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK</div> <div><div></div>CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD</div> <div><div></div>CEILING MOUNTED EMERGENCY LIGHTING RECESSED REMOTE HEAD</div> <div><div></div>WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD</div> <div><div></div>FIRE ALARM BELL</div> <div><div></div>FIRE ALARM BELL WITH STROBE</div> <div><div></div>FIRE ALARM STROBE</div> <div><div></div>FIRE ALARM HORN</div> <div><div></div>FIRE ALARM HORN/STROBE</div> <div><div></div>MINI FIRE ALARM HORN C/W SILENCE BUTTON</div> <div><div></div>MINI FIRE ALARM HORN/STROBE C/W SILENCE BUTTON</div> <div><div></div>FIRE ALARM BEACON</div> <div><div></div>CEILING MOUNTED FIRE ALARM HORN/STROBE</div> <div><div></div>CEILING MOUNTED FIRE ALARM EVACUATION HORN</div> <div><div></div>CEILING MOUNTED FIRE ALARM SPEAKER</div> <div><div></div>CEILING MOUNTED FIRE ALARM SPEAKER WITH STROBE</div> <div><div></div>WALL MOUNTED FIRE ALARM EVACUATION HORN</div> <div><div></div>WALL MOUNTED FIRE ALARM SPEAKER</div> <div><div></div>WALL MOUNTED FIRE ALARM SPEAKER WITH STROBE</div> <div><div></div>FIRE ALARM PULLSTATION</div> <div><div></div>SMOKE DETECTOR</div> <div><div></div>DUCT SMOKE DETECTOR</div> <div><div></div>HEAT DETECTOR - RATE OF RISE</div> <div><div></div>HEAT DETECTOR - FIXED TEMPERATURE</div> <div><div></div>CARBON MONOXIDE DETECTOR</div> <div><div></div>NITROGEN OXIDE DETECTOR</div> <div><div></div>SMOKE ALARM - 120V</div> <div><div></div>COMBINATION SMOKE/CARBON MONOXIDE DETECTOR</div> <div><div></div>FIRE FIGHTERS HANDSET</div>	<div><div></div>WALL MOUNTED TELEPHONE OUTLET</div> <div><div></div>TELEPHONE OUTLET FOR MODULAR FURNITURE</div> <div><div></div>WALL MOUNTED DATA OUTLET</div> <div><div></div>WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET</div> <div><div></div>WALL MOUNTED INTERCOM OUTLET</div> <div><div></div>WALL MOUNTED TELE</div>		



FOR TENDER

- GENERAL NOTES
1. COORDINATE DISCONNECTION OF EXISTING EQUIPMENT WITH OWNER'S REPRESENTATIVE.
  2. REMOVE AND DISPOSE OF ALL WIRING ASSOCIATED WITH DEMOLISHED EQUIPMENT.
  3. LOCATIONS ARE APPROXIMATE, COORDINATE EXACT LOCATIONS FOR EQUIPMENT ON SITE.
  4. CONDUCTORS MARKED FOR DEMOLITION TO BE REMOVED BACK TO SOURCE.
  5. 2 GROUND ROD TO BE DEMOLISHED AND DISPOSED OF OFF SITE.
  6. THIS DRAWING REPRESENTS THE MAJORITY OF EQUIPMENT TO BE DEMOLISHED. HOWEVER, THERE MAY BE DEVICES NOT SHOWN ON THIS DRAWING THAT ARE REQUIRED TO BE DEMOLISHED. DEMOLISH ALL POWER AND LIGHTING NOT BEING UTILIZED IN FINAL PROJECT.
  7. COORDINATE WITH OWNER TO DETERMINE WHAT EQUIPMENT IS TO BE SALVAGED AND RETURNED TO OWNER.
  8. ELECTRICAL CONTRACTOR TO MAKE ALL ELECTRICAL WHICH IS TO BE REMOVED SAFE FOR DEMOLITION. COORDINATE WITH GENERAL CONTRACTOR.
  9. CONFIRM DEMOLITION OF OVERHEAD CONDUCTORS WITH DEPARTMENT REPRESENTATIVE PRIOR TO DEMOLITION.



April 29, 2019

PERMIT TO PRACTICE  
MPE ENGINEERING LTD.  
PERMIT NUMBER: P 3680  
The Association of Professional  
Engineers and Geoscientists of Alberta

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0	Issued for Tender	2019/04/30
Revision	Description	Date

Client client

Project Projet

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION  
  
2018-2019  
LONGVIEW, ALBERTA

Designed by Conçu par

P.P.G.

Drawn by Dessiné par

C.R.S.

Approved by Approuvé par

PWGSC Project Manager Administrateur de Projets TPSGC

Drawing title Titre du dessin

ELECTRICAL  
DEMOLITION  
PLAN

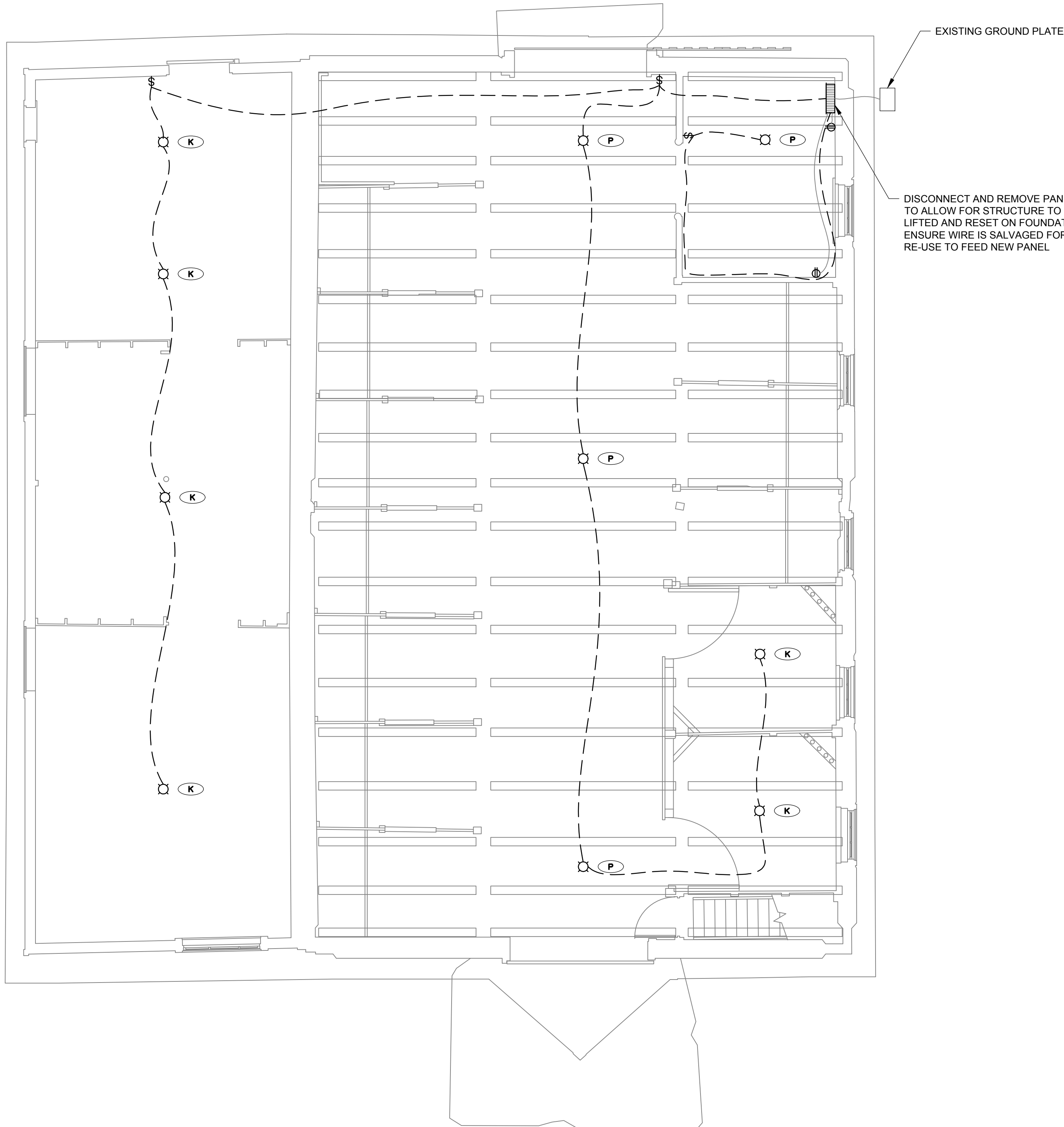
Project no./No. du projet Drawing no./No. du dessin Revision no.

R.083678.001

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OF 3

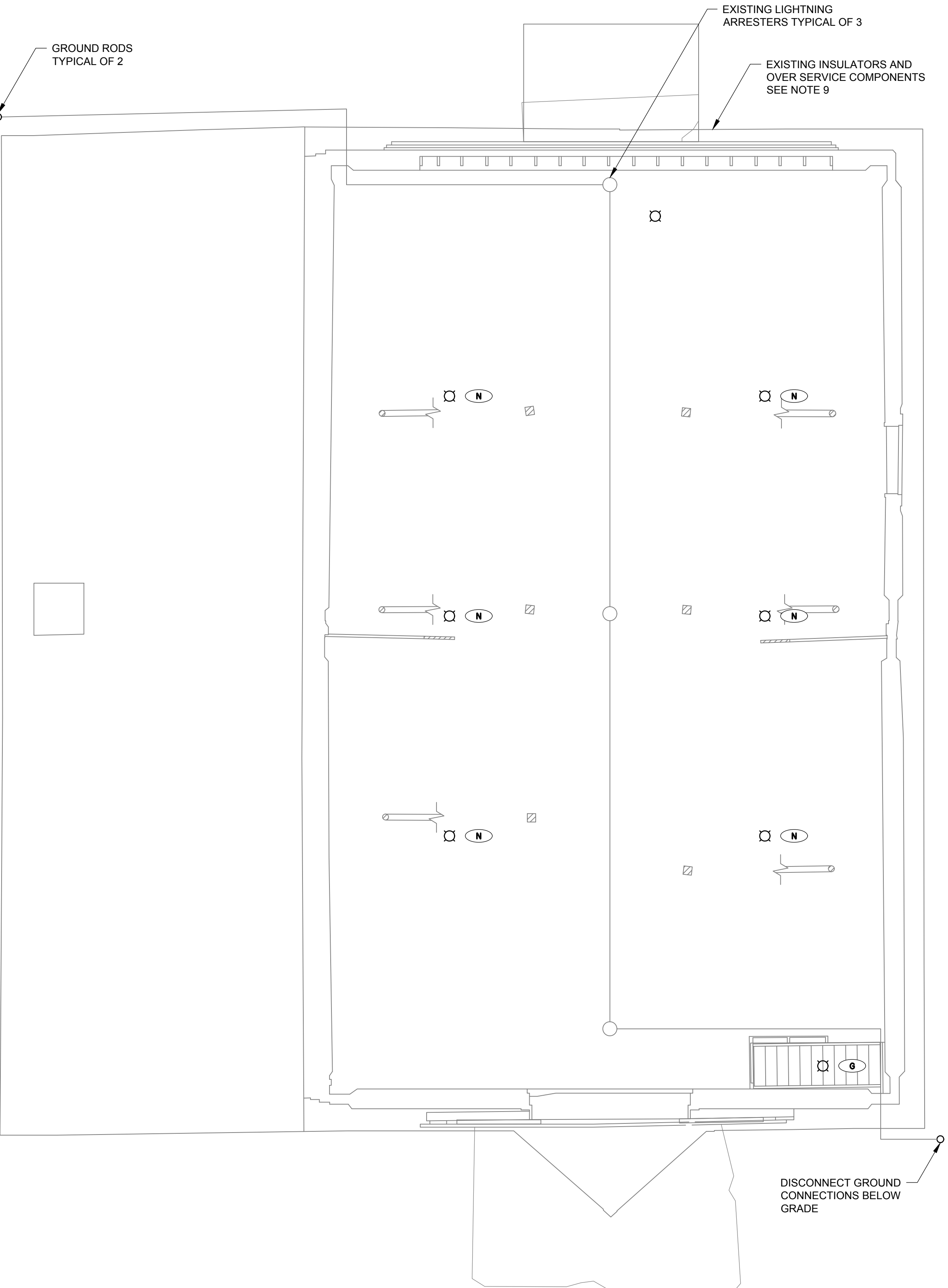


MAIN FLOOR DEMOLITION

1 : 50

LUMINAIRE SCHEDULE						
TAG	DESCRIPTION	MOUNTING	VOLT	REMARKS		
K	KEYLESS FIXTURE	CEILING	120V	7 KEYLESS FIXTURES		
P	PIG TAIL	CEILING	120V	3 PIG TAIL FIXTURES		
N	KNOB AND TUBE	CEILING	120V	6 KNOB AND TUBE FIXTURES - SALVAGE TO DEPARTMENT REPRESENTATIVE		
G	GLOBE FIXTURE	CEILING	120V	1 GLOBE FIXTURE		

		PANEL: 2A						
		LOCATION: MAIN FLOOR						
		120/208V 3PH 4W 30A						
DESCRIPTION	LOAD (W)	TRIP AMPS	BRK. NO.	PHASE	BRK. NO.	TRIP AMPS	LOAD (W)	DESCRIPTION
			1	A	2	15		LIGHTING/POWER
			3	B	4			



LOFT DEMOLITION

1 : 50



FOR TENDER

- GENERAL NOTES
- DRAWINGS DO NOT SHOW ALL CABLES. THOSE SHOWN ARE IN DIAGRAMMATIC FORM ONLY.
  - NMWU NO.12 CONDUCTORS, UTILIZE EXISTING STRUCTURE HOLES. TO MAINTAIN AUTHENTICITY OF STRUCTURE DO NOT DRILL ANY HOLE ON-SITE, UTILIZING EXISTING CONDUCTOR PATH.
  - COORDINATE EXACT DEVICE AND FIXTURE LOCATIONS ON SITE WITH DEPARTMENT REPRESENTATIVE.
  - NEW CONDUCTOR PATHS TO RUN UNDER FLOOR BOARDS.
  - REPAIR EXISTING GLASS ISOLATORS.
  - REPLACE EXISTING GROUND RODS CONNECTING TO EXISTING GROUNDING CONDUCTOR.
  - COORDINATE PANEL DISCONNECTION WITH OTHER DISCIPLINES TO ACCOMMODATE THE LIFTING OF THE BUILDING. PANEL TO BE REPLACED AND RECONNECTED TO EXISTING CONDUCTORS. PANEL FEEDED TO BE RE-ROUTED THROUGH FOUNDATION AND UP INSIDE INTERIOR WALL. COORDINATE FOUNDATION PENETRATION WITH STRUCTURAL FOUNDATION WORK.
  - COORDINATE BOX AND CONDUCTOR LOCATIONS WITH DEPARTMENT REPRESENTATIVE TO ENSURE THE LOCATIONS ARE VISUALLY UNINTRUSIVE. NEW CONDUCTOR PATHS TO RUN BEHIND BEAMS AND JOISTS OUT OF SIGHT FROM MAIN EGRESS PATHS.
  - COORDINATE CRAWL SPACE EXHAUST FAN CONNECTION WITH OTHER DISCIPLINES.



April 29, 2019

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0	Issued for Tender	2019/04/30
Revision	Description	Date

Client client

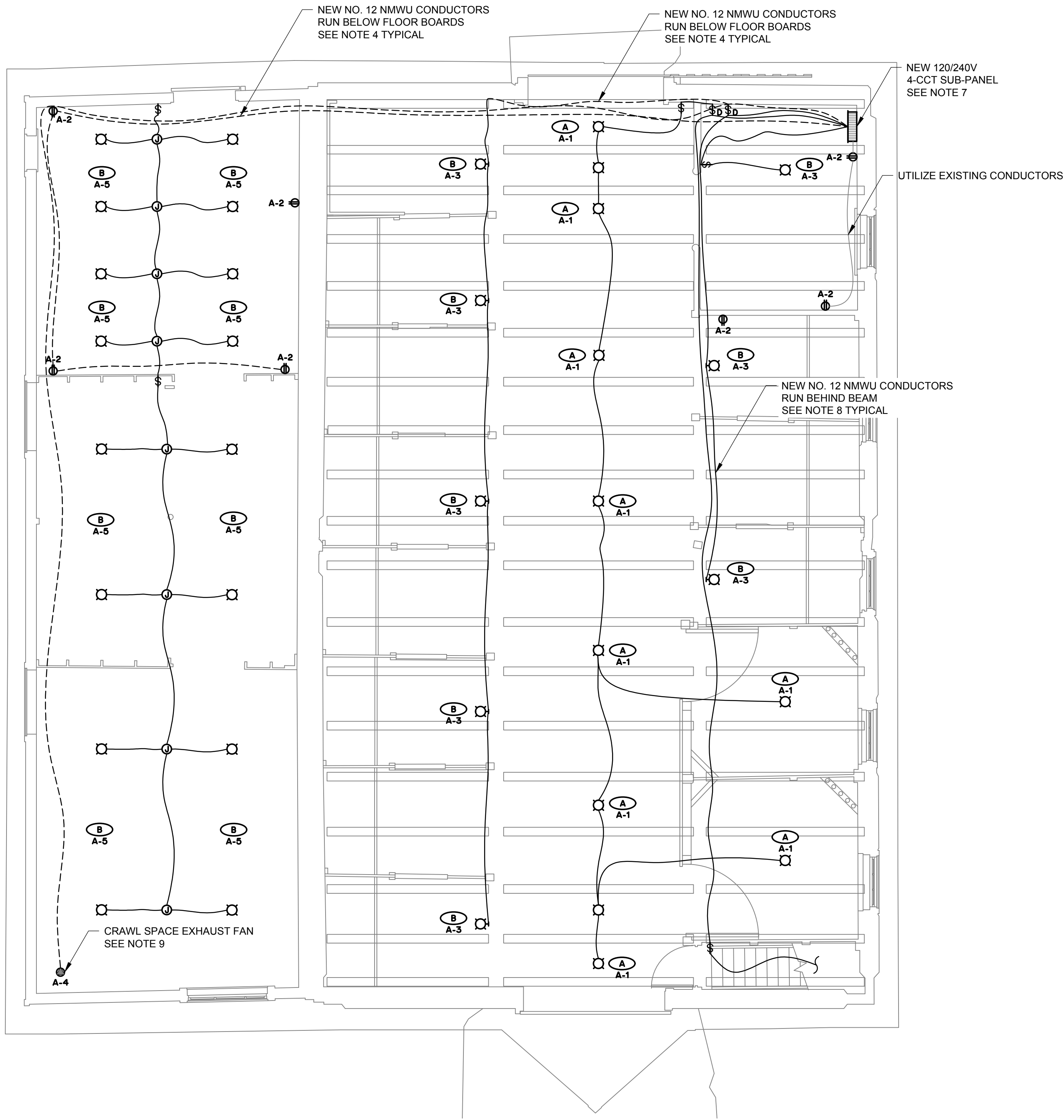
Project Project  
**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION  
2018-2019  
LONGVIEW, ALBERTA**

Designed by Conçu par  
**P.P.G.**  
Drawn by Dessiné par  
**C.R.S.**  
Approved by Approuvé par

PWGSC Project Manager Administrateur de Projets TPSCG

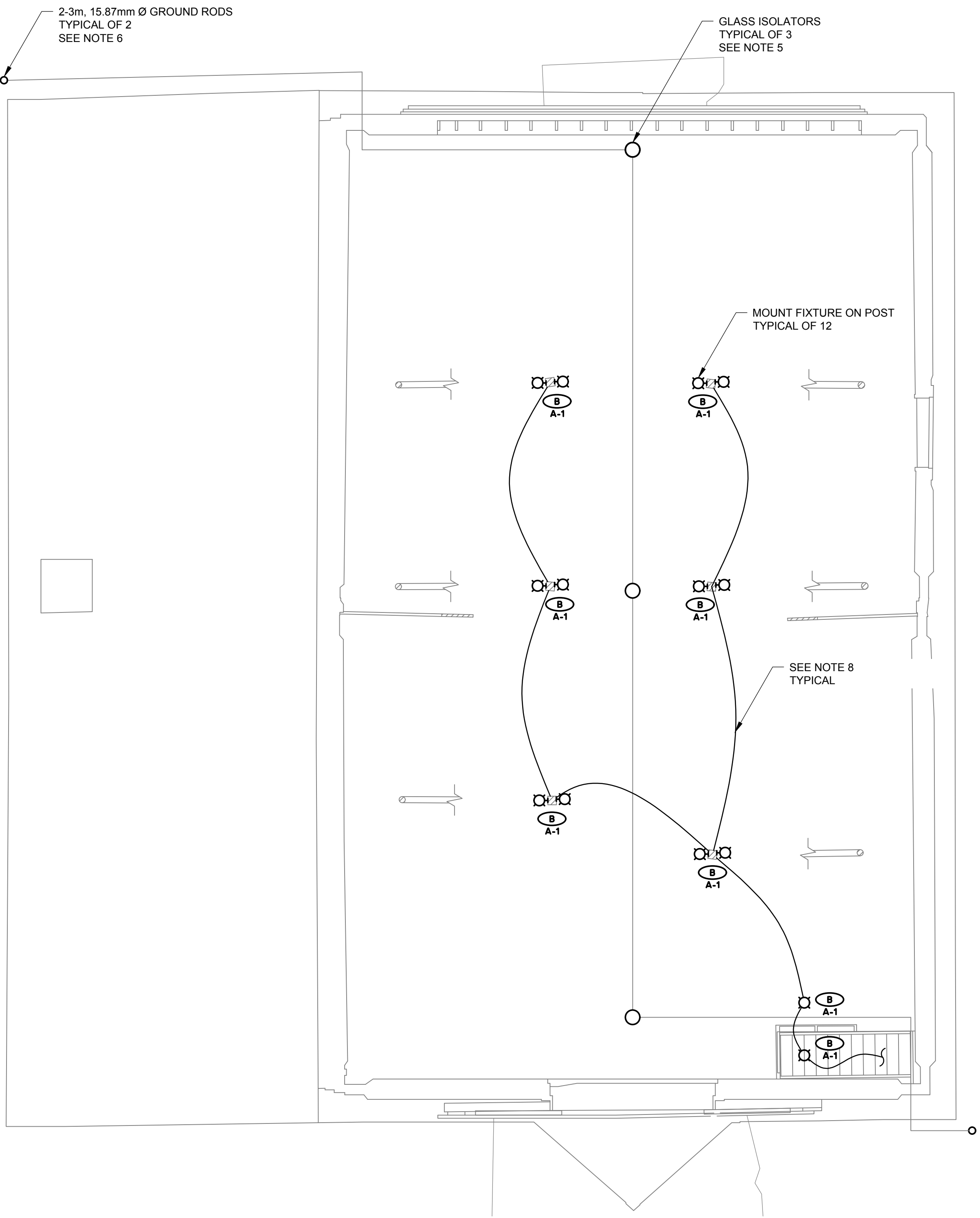
Drawing title Titre du dessin  
**ELECTRICAL  
PROPOSED  
PLAN**

Project no./No. du projet Drawing no./No. du dessin Revision no.  
**R.083678.001 E3 1**  
OF 3



PROPOSED MAIN FLOOR

1 : 50



PROPOSED LOFT

1 : 50

DESCRIPTION		PANEL: A							DESCRIPTION
		LOCATION: MAIN FLOOR							
		120/240V 1PH 3W 30A							
		LOAD (W)	TRIP AMPS	BRK. NO.	PHASE	BRK. NO.	TRIP AMPS	LOAD (W)	
LIGHTING MAIN AISLE AND LOFT AREA	425	15	1	A	2	15	600	RECEPTACLES	
LIGHTING BOX STALLS	136	15	3	B	4	15	57	CRAWL SPACE EXHAUST FAN	
LIGHTING STAFF AND STORAGE ROOM	143	15	5	A	6				
			7	B	8				

LUMINAIRE SCHEDULE											
TAG	DESCRIPTION	MANUFACTURER/MODEL (OR APPROVED EQUIVALENT)	MOUNTING HEIGHT	LAMP	FIXTURE LUMEN OUTPUT	COLOUR TEMPERATURE	MOUNTING	VOLT	LIFESPAN	REMARKS	FIXTURE REPRESENTATION
A	PIG TAIL FIXTURE	LEVITON 9874 / CREE A21 SERIES		17W	1600	2700K	CEILING	120V	25,000 HRS	LINE VOLTAGE DIMMABLE 100W EQUIVALENT LED BULB	
B	CERAMIC KEYLESS FIXTURE	LEVITON 9874 / CREE A21 SERIES		17W	1600	2700K	CEILING/ POST/ BEAM	120V	25,000 HRS	LINE VOLTAGE DIMMABLE 100W EQUIVALENT LED BULB	



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Revision	Description	Date
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Clientclient

ProjectProject

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION  
  
2018-2019  
LONGVIEW, ALBERTA

Designed byConçu par  
T.M.L.

Drawn byDessiné par  
C.R.S.

Approved byApprouvé par

PWGSC Project ManagerAdministrateur de Projets TPSGC

Drawing titleTitre du dessin

MECHANICAL  
LEGEND

Project no./No. du projetDrawing no./No. du dessinRevision no.

R.083678.001

M1

1

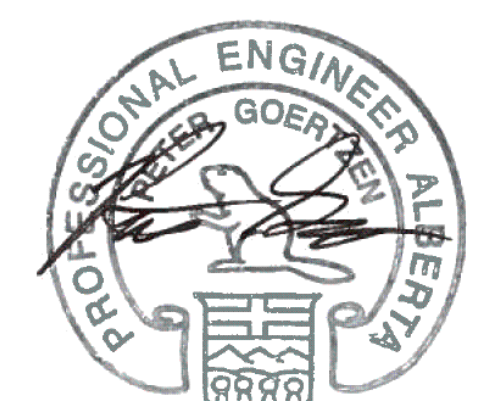
OF 2

GENERAL EQUIPMENT	GENERAL PIPING	HEATING EQUIPMENT	FIRE PROTECTION	VENTILATION FIXTURE
<div><div></div>PROPOSED</div> <div><div>- - - - -</div>EQUIPMENT TO BE REMOVED</div> <div><div></div>EXISTING</div> <div><div></div>MARKER DENOTING EXTENT OF WORK TO EXISTING SYSTEMS</div>	<div><div></div>PIPE DROP</div> <div><div></div>PIPE RISE</div> <div><div></div>OFFSET DOWN</div> <div><div></div>BOTTOM TAKE-OFF</div> <div><div></div>TOP TAKE-OFF</div> <div><div></div>TEE CONNECTION</div> <div><div></div>CAP</div> <div><div></div>BLOW OFF STRAINER</div> <div><div></div>CONCENTRIC REDUCER</div> <div><div></div>ECCENTRIC REDUCER</div> <div><div></div>FLANGED SPOOL PIECE</div> <div><div></div>UNION/FLANGED CONNECTION</div> <div><div></div>EXPANSION JOINT</div> <div><div></div>PUMP</div> <div><div></div>PRESSURE GAUGE AND COCK</div> <div><div></div>STRAINER</div> <div><div></div>PIPE SIZE</div> <div><div></div>DIRECTION OF FLOW</div> <div><div></div>TEMPERATURE SENSOR SINGLE POINT PROBE</div> <div><div></div>SENSOR AVERAGING PROBE</div> <div><div></div>AIR SEPARATOR</div> <div><div></div>AIR SCOOP</div> <div><div></div>CHEMICAL POT FEEDER</div> <div><div></div>AIR VENT</div> <div><div></div>EMERGENCY EYEWASH</div>	<div><div></div>2 WAY CONTROL VALVE</div> <div><div></div>3 WAY CONTROL VALVE</div> <div><div></div>BALANCE VALVE</div> <div><div></div>CIRCUIT SETTER</div> <div><div></div>GAS COCK</div> <div><div></div>ISOLATION VALVE</div> <div><div></div>PRESSURE REDUCING VALVE</div> <div><div></div>RELIEF OR SAFETY VALVE</div> <div><div></div>AUTOMATIC FILL VALVE</div> <div><div></div>SOLENOID VALVE</div> <div><div></div>DIFFERENTIAL PRESSURE VALVE</div> <div><div></div>STEAM TRAPS</div> <div><div></div>SUPERVISED VALVE</div> <div><div></div>SWING GATE CHECK VALVE</div> <div><div></div>BACK FLOW PREVENTER</div> <div><div></div>SIGHT GLASS</div> <div><div></div>MICRON FILTER</div> <div><div></div>RADIATION TAG</div> <div><div></div>DRINKING FOUNTAIN</div> <div><div></div>THERMOMETER</div> <div><div></div>METER</div> <div><div></div>FLOOR DRAIN</div> <div><div></div>FUNNEL FLOOR DRAIN</div> <div><div></div>HUB DRAIN</div> <div><div></div>ROOF DRAIN</div> <div><div></div>RUNNING TRAP</div> <div><div></div>FIXTURE TRAP</div> <div><div></div>CLEAN-OUT</div> <div><div></div>IN FLOOR CLEANOUT</div> <div><div></div>NON FREEZE HOSE BIBB</div> <div><div></div>SANITARY VENT</div>	<div><div></div>FIRE EXTINGUISHER</div> <div><div></div>FIRE EXTINGUISHER C/W SEMI RECESSED CABINET</div> <div><div></div>FIRE HOSE STATION</div> <div><div></div>FIRE DEPARTMENT SIAMESE CONNECTION</div> <div><div></div>UPRIGHT SPRINKLER</div> <div><div></div>PENDANT SPRINKLER</div> <div><div></div>CONCEALED SPRINKLER</div> <div><div></div>DRY PENDANT SPRINKLER</div> <div><div></div>SIDEWALL HEAD SPRINKLER</div> <div><div></div>SIDEWALL HEAD DRY SPRINKLER</div> <div><div></div>VENTILATION DUCT WORK</div> <div><div></div>THERMAL LINING (INSULATION)</div> <div><div></div>ACOUSTICAL LINING (INSULATION)</div> <div><div></div>RECTANGULAR DUCT</div> <div><div></div>ROUND DUCT</div> <div><div></div>FLAT OVAL DUCT</div> <div><div></div>FLEXIBLE DUCT CONNECTION</div> <div><div></div>BRAIDED FLEXIBLE PIPE CONNECTOR</div> <div><div></div>DOUBLE SPHERE RUBBER PIPE CONNECTOR</div> <div><div></div>VARIABLE VOLUME TERMINAL UNIT</div> <div><div></div>TRANSITION</div> <div><div></div>RECTANGULAR TO ROUND TRANSITION</div> <div><div></div>TURNING VANES</div> <div><div></div>SMOKE DETECTORS</div> <div><div></div>DUCT REHEAT COIL</div> <div><div></div>RELIEF VENT</div> <div><div></div>CHIMNEY</div> <div><div></div>INDICATES DIRECTION OF AIR FLOW</div> <div><div></div>AIR FLOW MEASURING STATION</div>	<div><div></div>CEILING FAN</div> <div><div></div>FAN</div> <div><div></div>SIDE WALL FAN</div> <div><div></div>DEHUMIDISTAT</div> <div><div></div>FREEZE-STAT</div> <div><div></div>DIFFERENTIAL PRESSURE SENSOR</div> <div><div></div>THERMOSTAT</div> <div><div></div>THERMOSTAT C/W LOCKABLE COVER</div> <div><div></div>THERMOSTAT C/W REMOTE TEMPERATURE SENSOR</div> <div><div></div>SUPPLY AIR DUCT</div> <div><div></div>RETURN AIR DUCT</div> <div><div></div>EXHAUST AIR DUCT</div> <div><div></div>OUTSIDE OR COMBUSTION AIR</div> <div><div></div>RETURN/EXHAUST GRILLE</div> <div><div></div>LOUVERED GRILLE</div> <div><div></div>ROUND CONE DIFFUSER</div> <div><div></div>SQUARE CONE DIFFUSER</div> <div><div></div>ROUND SUPPLY DUCT RISER</div> <div><div></div>ROUND SUPPLY DUCT DROP</div> <div><div></div>AIR GRILL TAG S - SUPPLY R - RETURN E - EXHAUST T - TRANSFER</div> <div><div></div>BALANCE DAMPER</div> <div><div></div>FIRE DAMPER</div> <div><div></div>MOTORIZED DAMPER</div> <div><div></div>TAGS</div> <div><div></div>FIXTURE AND EQUIPMENT TAG</div> <div><div></div>FLOW SWITCH</div> <div><div></div>EMCS POINT IDENTIFICATION TAG</div> <div><div></div>VAV BOX IDENTIFICATION TAG</div> <div><div></div>VOLTAGE/CURRENT PRESSURE TRANSDUCER</div> <div><div></div>KEY NOTES</div>



## FOR TENDER

- KEY NOTES**
- SUPPLY AND INSTALL HEAVY-DUTY LINEAR BAR GRILLES OF SIZES INDICATED ON THE PLANS AS T-1 TRANSFER GRILLES. GRILLES SHALL HAVE FIXED 0 DEGREE 1/8 INCH DEFLECTION BLADES SPACED 1/4 INCH ON CENTER. THE BLADES SHALL RUN PARALLEL TO THE LONG DIMENSION OF THE GRILLE. THE GRILLE BLADES, BORDER, AND MILLIONS SHALL BE HEAVY EXTRUDED ALUMINUM CONSTRUCTION. GRILLE SHALL BE CAPABLE OF WITHSTANDING FOOT TRAFFIC. ALL COMPONENTS SHALL HAVE A BAKED-ON BLACK POWDER-COAT FINISH WHICH MUST DEMONSTRATE NO DEGRADATION WHEN TESTED IN ACCORDANCE WITH ASTM D1308 AND ASTM D4752 PAINT DURABILITY TESTS. COORDINATE CUTTING OF TRANSFER GRILLE OPENING WITH DEPARTMENT REPRESENTATIVE.
  - SUPPLY AND INSTALL A 120 V INLINE CENTRIFUGAL DUCT FAN CAPABLE OF PROVIDING 47 L/S OF AIRFLOW AT 30 PA OF STATIC PRESSURE IN ORDER TO CONTINUOUSLY VENTILATE THE WEST ADDITION CRAWLSPACE. FAN IS TO BE RATED FOR 40,000 HOURS TROUBLE-FREE CONTINUOUS USE AND BE OUL LISTED. THE CRAWLSPACE EXHAUST FAN IS TO BE HOUSED WITHIN A GALVANIZED STEEL BOX SUPPORTED BY THE FLOOR IN ORDER TO ALLOW FOR THE FAN TO BE CONCEALED BELOW THE FLOOR AND TO PROVIDE EASY ACCESS TO THE FAN FOR SERVICING. BOX DIMENSIONS ARE TO BE 12" W X 12" L TO MATCH THE GRILLE, AND IS TO BE 14" DEEP. THE EXHAUST FAN IS TO BE MOUNTED HORIZONTALLY INSIDE OF THE BOX AND CONNECTED TO A FLANGED OPENING ON ONE SIDE OF THE BOX. THE FAN WILL DRAW AIR FROM THE CRAWL SPACE INTO THE BOX WHICH WILL THEN BE PUSHED UP THROUGH THE GRILLE. ELECTRICAL WIRING FOR THE FAN IS TO BE TERMINATED INTO THE FAN JUNCTION BOX. FAN IS TO BE SUPPORTED AS REQUIRED AND PROVIDED WITH RUBBER ISOLATORS. COORDINATE GRILLE AND HOUSING DIMENSIONS WITH THE SUPPLIED FAN.
  - EXCAVATION FOR WATER LINE INSTALLATION TO BE CONDUCTED IN COMBINATION WITH ARCHAEOLOGICAL MONITORING. PROVIDE CONCRETE THRUST BLOCKS FOR CURB STOP AND YARD HYDRANT ELBOW. BED PIPING IN 200mm SAND ON ALL SIDES.
  - COORDINATE YARD HYDRANT FINAL LOCATION WITH DEPARTMENT REPRESENTATIVE AND FENCE BOARD ADDITIONS.



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Revision	Description	Date
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Client client

Project  
**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**  
**2018-2019  
LONGVIEW, ALBERTA**

Designed by Conçu par

T.M.L.

Drawn by Dessiné par

C.R.S.

Approved by Approuvé par

PWGSC Project Manager Administrateur de Projets TPSGC

Drawing title Titre du dessin

**MECHANICAL  
PROPOSED  
PLAN**

Project no./No. du projet

**R.083678.001**

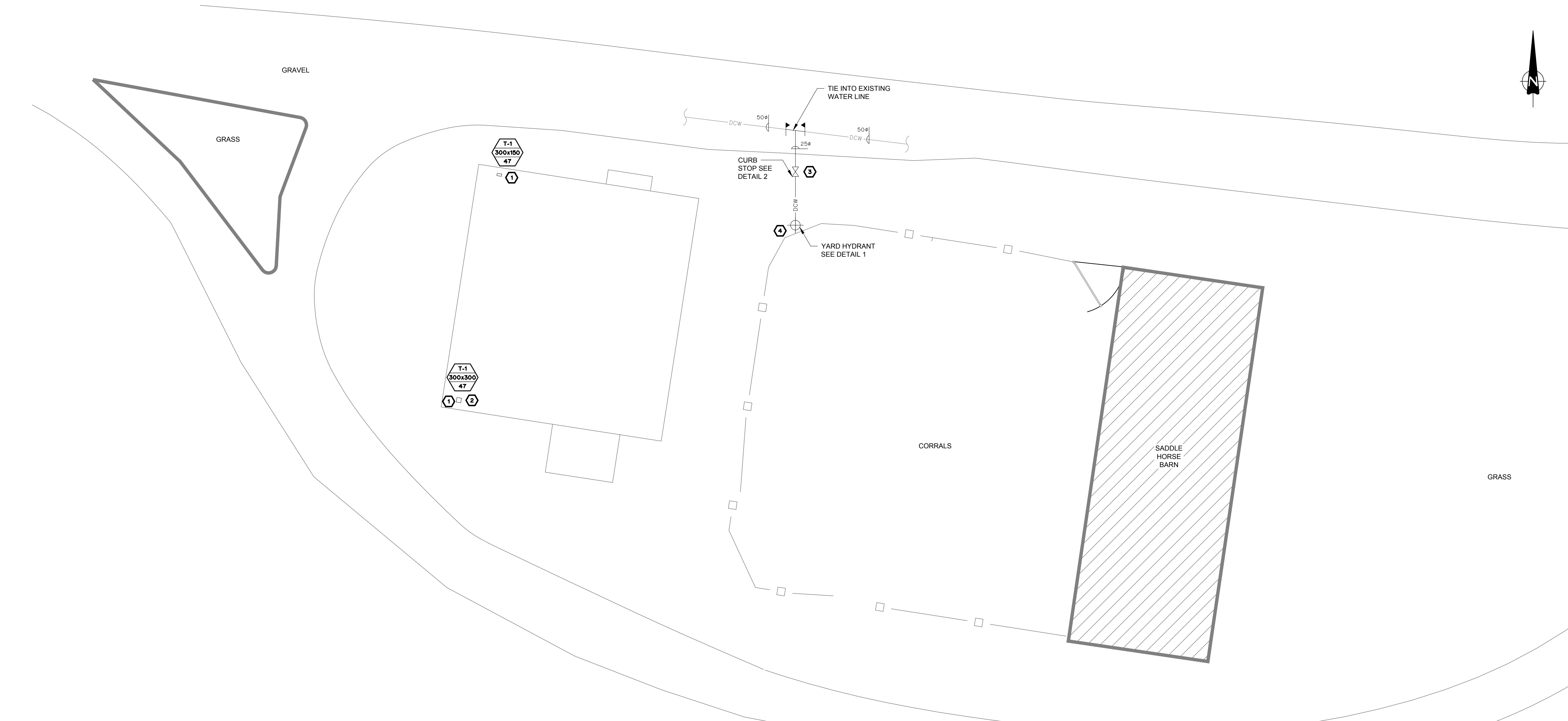
Drawing no./No. du dessin

**M2**

Revision no.

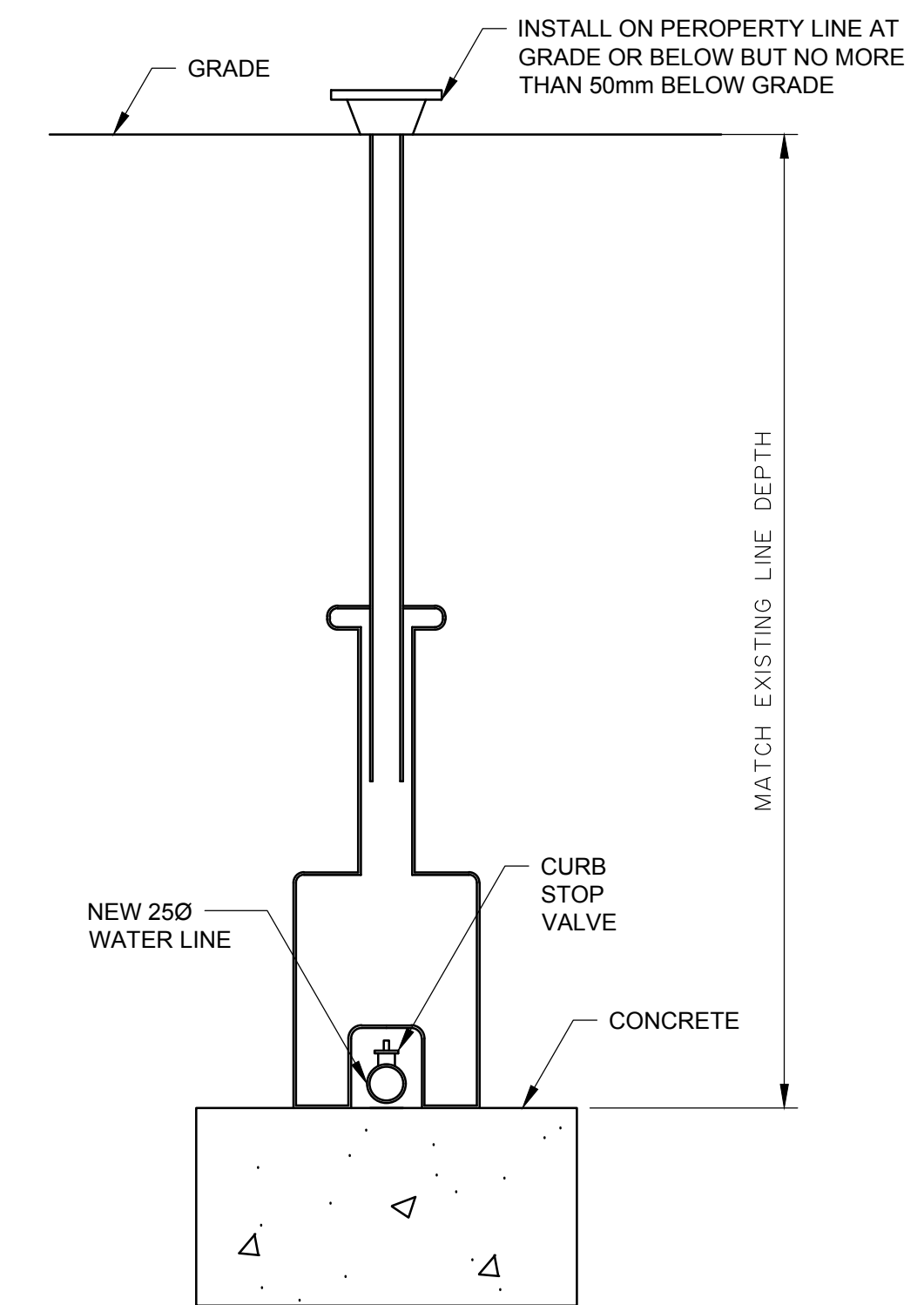
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OF 2



**1 WATTS HY-800 YARD HYDRANT**  
N.T.S.

**MECHANICAL SITE PLAN**  
1 : 125



**2 CURB STOP DETAIL**  
1 : 10



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
2. THIS EX DRAWING SET IS ISSUED FOR REFERENCE INFORMATION ON EXISTING STRUCTURE AND CONDITIONS.

Heritage Conservation Services  
Architecture and Engineering Services  
Real Property Branch  
Public Services and Procurement Canada

Services de la Conservation du Patrimoine  
Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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Revision	Description	Date
Client		Client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
A. PIWOWAR  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager  
G. SPENCE  
Approve  
Administrateur de Projets TPSGC

Drawing title  
LOCATION PLAN,  
SITE PLAN, LEGEND  
AND PHOTO

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX1 OF 33	

# BAR U RANCH N.H.S.C. - WORK HORSE BARN

## LONGVIEW, ALBERTA



SOUTH ELEVATION

LOCATION PLAN  
NTS



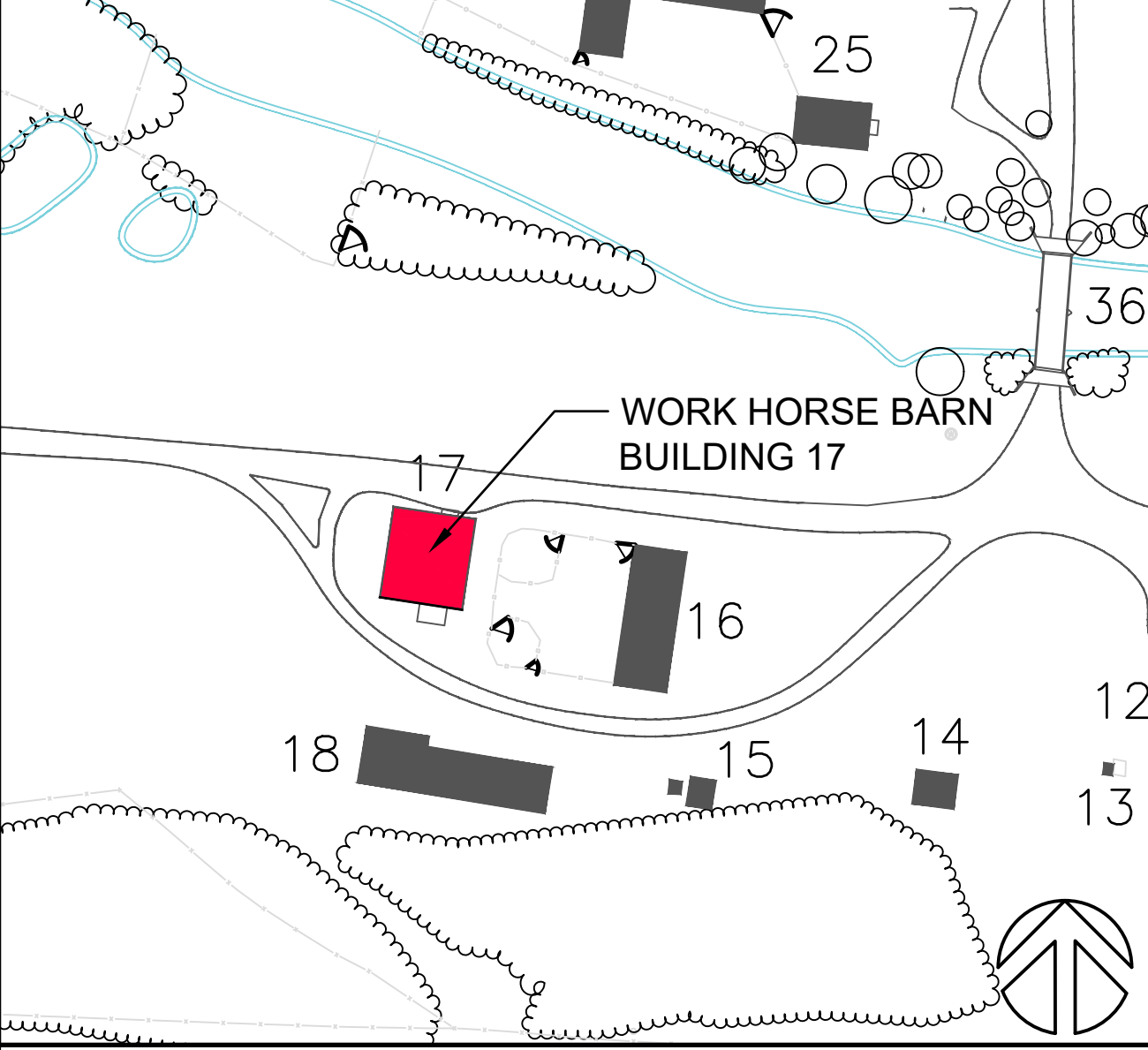
LOCATION PLAN  
NTS



SITE PLAN  
NTS



SITE PLAN  
NTS





GENERAL NOTES (EX SET):

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Public Services and Procurement Canada

Services de la Conservation du Patrimoine  
Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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Revision	Description	Date
Client		Client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
A. PIWOWAR  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWOSC Project Manager  
Administrateur de Projets TPSOC  
G. SPENCE

Drawing title  
DRAWING LIST AND  
GENERAL NOTES

Project no./No. du projet R.083678.001	Drawing no./No. du dessin EX2 OF 33	Revision no.
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DRAWING LIST

PACKAGE 1 : AS FOUND CONDITION DRAWINGS

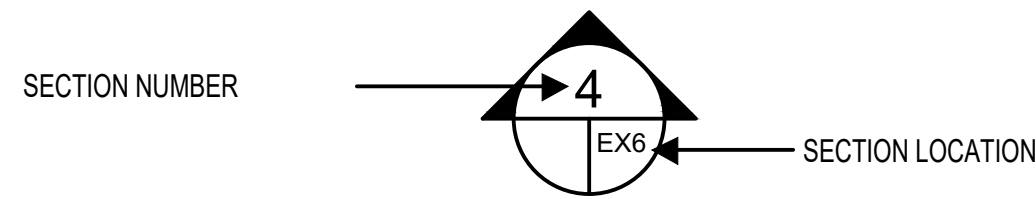
- EX001COVER PAGE
- EX002DRAWING LIST AND GENERAL NOTES
- EX003SITE PLAN
- EX004SITE TOPOGRAPHIC SURVEY
- EX005WORKHORSE BARN TOPOGRAPHIC SURVEY
- EX006PHOTOGRAMMETRIC ELEVATIONS
- EX007NORTH ELEVATION CONDITION DRAWING
- EX008EAST ELEVATION CONDITION DRAWING
- EX009SOUTH ELEVATION CONDITION DRAWING
- EX010WEST ELEVATION CONDITION DRAWING
- EX011EXISTING POINT CLOUD PLANS AND PERSPECTIVES
- EX012EXISTING FIRST FLOOR PLAN
- EX013FIRST FLOOR CONDITIONS
- EX014SECOND FLOOR CONDITIONS
- EX015FIRST FLOOR REFLECTED CEILING PLAN
- EX016EAST - WEST SECTIONS
- EX017NORTH - SOUTH SECTIONS
- EX018NORTH - SOUTH SECTIONS
- EX019SECTIONS
- EX020WEST ADDITION INTERIOR PHOTOS
- EX021DETAIL CONDITION PHOTOS
- EX022NORTH WALL CONDITION PHOTOS
- EX023NORTH WALL CONDITIONS
- EX024NORTH WALL DETAILS
- EX025STRUCTURAL DETAILS MAIN BARN
- EX026STRUCTURAL DETAILS MAIN BARN
- EX027STRUCTURAL SCHEMATIC DETAILS WEST ADDITION
- EX028STRUCTURAL DETAILS HAY LOFT
- EX029STRUCTURAL DETAILS HAY LOFT
- EX030STRUCTURAL DETAILS WEST ADDITION
- EX031EXISTING TOPOGRAPHIC SECTIONS
- EX032WINDOWS SCHEDULE
- EX033DOOR SCHEDULE

PACKAGE 2 : ARCHITECTURAL REHABILITATION DRAWINGS

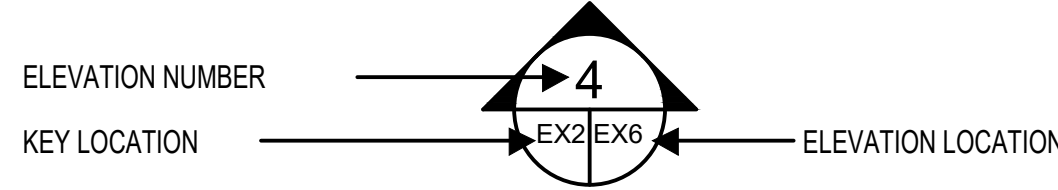
PACKAGE 3 : STRUCTURAL REHABILITATION DRAWINGS

LEGEND

SECTION MARKER



ELEVATION MARKER



- SECTION CUT - MATERIAL NOT SPECIFIED
- #

NOTE MARKER



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Real Property Branch  
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Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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Revision	Description	Date
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Client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project

LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by

A. PIWOWAR

Drawn by

HCS

Check

D. STEPHENSON/ C. BOUFFARD-LIMA

Project Manager

G. SPENCE

Drawing title

SITE PLAN

Project no./No. du projet

R.083678.001

Drawing no./No. du dessin

EX3

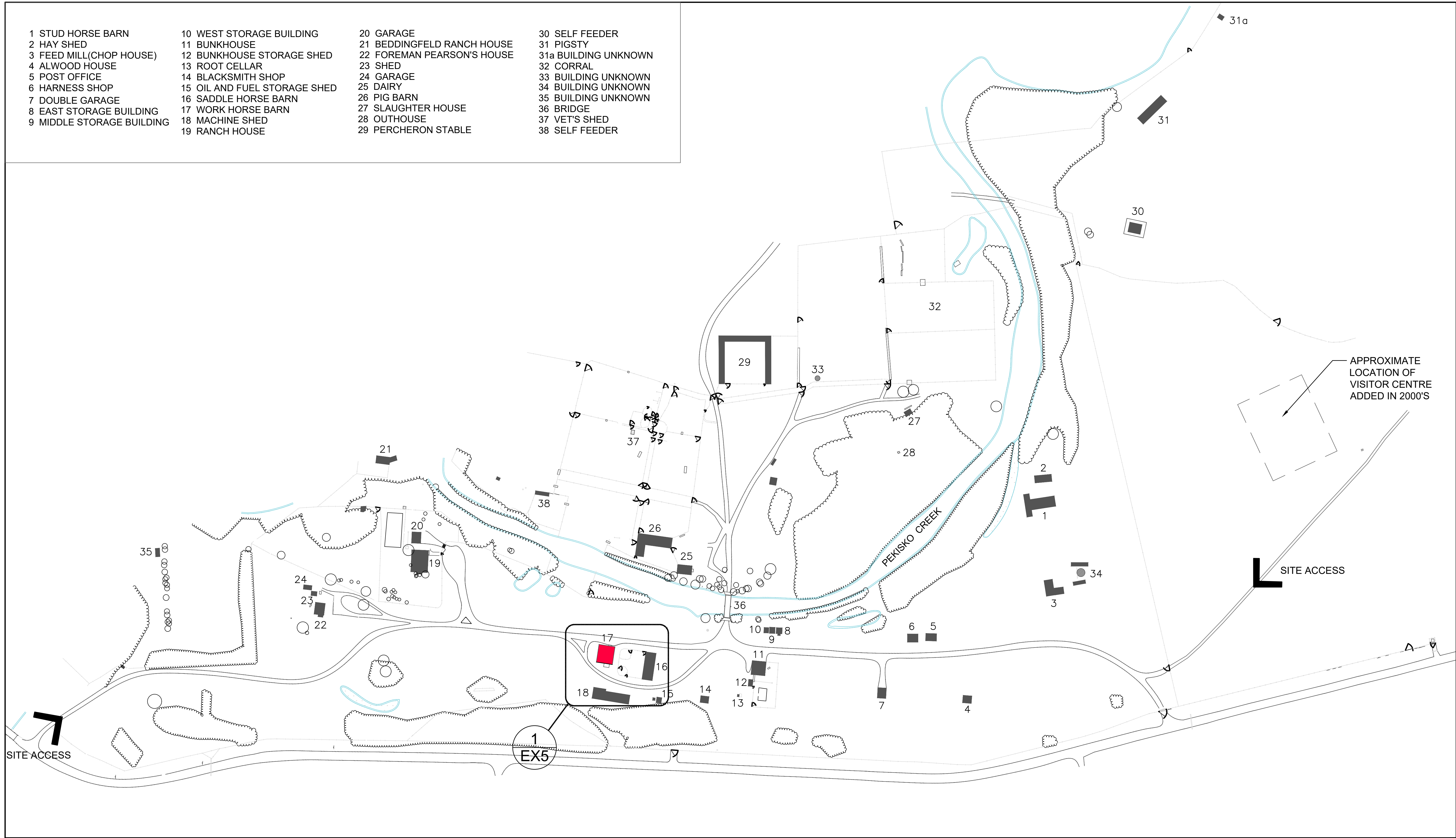
OF 33

- 1 STUD HORSE BARN  
2 HAY SHED  
3 FEED MILL(CHOP HOUSE)  
4 ALWOOD HOUSE  
5 POST OFFICE  
6 HARNESS SHOP  
7 DOUBLE GARAGE  
8 EAST STORAGE BUILDING  
9 MIDDLE STORAGE BUILDING

10 WEST STORAGE BUILDING  
11 BUNKHOUSE  
12 BUNKHOUSE STORAGE SHED  
13 ROOT CELLAR  
14 BLACKSMITH SHOP  
15 OIL AND FUEL STORAGE SHED  
16 SADDLE HORSE BARN  
17 WORK HORSE BARN  
18 MACHINE SHED  
19 RANCH HOUSE

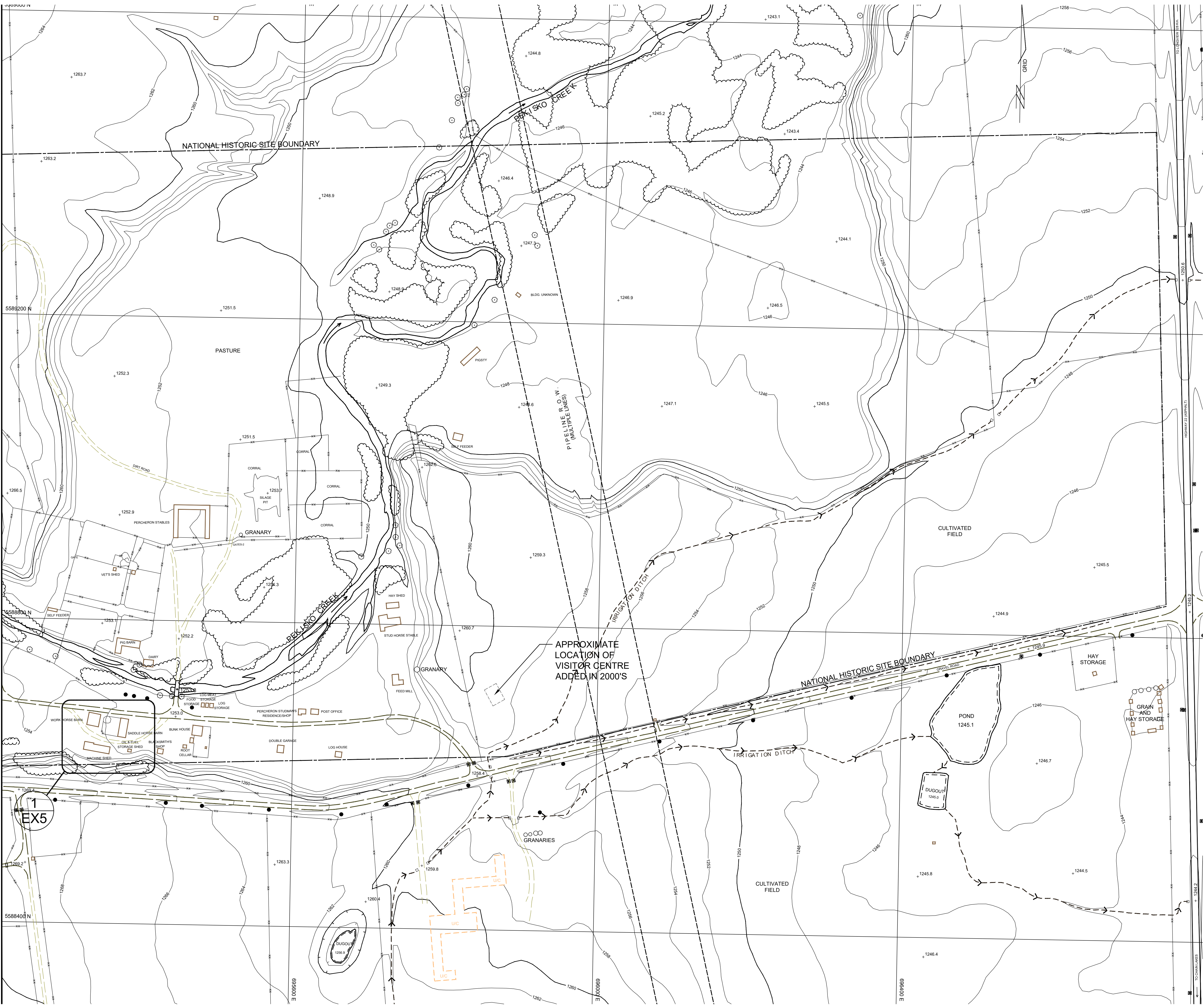
20 GARAGE  
21 BEDDINGFELD RANCH HOUSE  
22 FOREMAN PEARSON'S HOUSE  
23 SHED  
24 GARAGE  
25 DAIRY  
26 PIG BARN  
27 SLAUGHTER HOUSE  
28 OUTHOUSE  
29 PERCHERON STABLE

30 SELF FEEDER  
31 PIGSTY  
31a BUILDING UNKNOWN  
32 CORRAL  
33 BUILDING UNKNOWN  
34 BUILDING UNKNOWN  
35 BUILDING UNKNOWN  
36 BRIDGE  
37 VET'S SHED  
38 SELF FEEDER



1 SITE PLAN  
1: 1500





1 FULL SITE TOPOGRAPHY  
EX4 NTS

NOTE: FULL SITE TOPOGRAPHY DRAWING IS FROM 1993 HERITAGE  
RECORDING. DIMENSIONS TO BE CONFIRMED ON SITE.

REAL PROPERTY SERVICES  
Western Region  
SERVICES IMMOBILIERS  
Région de l'ouest

- GENERAL NOTES (EX SET):
1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
  2. THIS EX DRAWING SET IS ISSUED FOR REFERENCE INFORMATION ON EXISTING STRUCTURE AND CONDITIONS.

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Services Publics et Approvisionnement Canada

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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
A. PIWOWAR  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWOSC Project Manager  
G. SPENCE  
Approved by  
PWOSC Project Manager  
G. SPENCE

SITE TOPOGRAPHIC  
SURVEY

Project no./No. du projet  
R.083678.001  
Drawing no./No. du dessin  
EX4  
Revision no.  
OF 33



GENERAL NOTES (EX SET):

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Revision	Description	Date
Client		Client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project	LONGVIEW, ALBERTA	Project
	2018-2019	
	BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION	

Designed by	Design: pot
Drawn by	Dessiné: pot
Checked by	Approuvé: pot
Project Manager	Administrateur de Projets TPSGC
G. SPENCE	

Drawing title	Date du dessin
WORKHORSE BARN TOPOGRAPHIC SURVEY	

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX5 OF 33	

POINT CODES  
NONE SPOT SHOT  
COT TOP OF CONCRETE  
GA GRAVEL  
RKT TOP OF ROCK

BENCH MARK, TOP OF BOLT  
SW CORNER OF FOOTING  
ELEV. =1254.97m

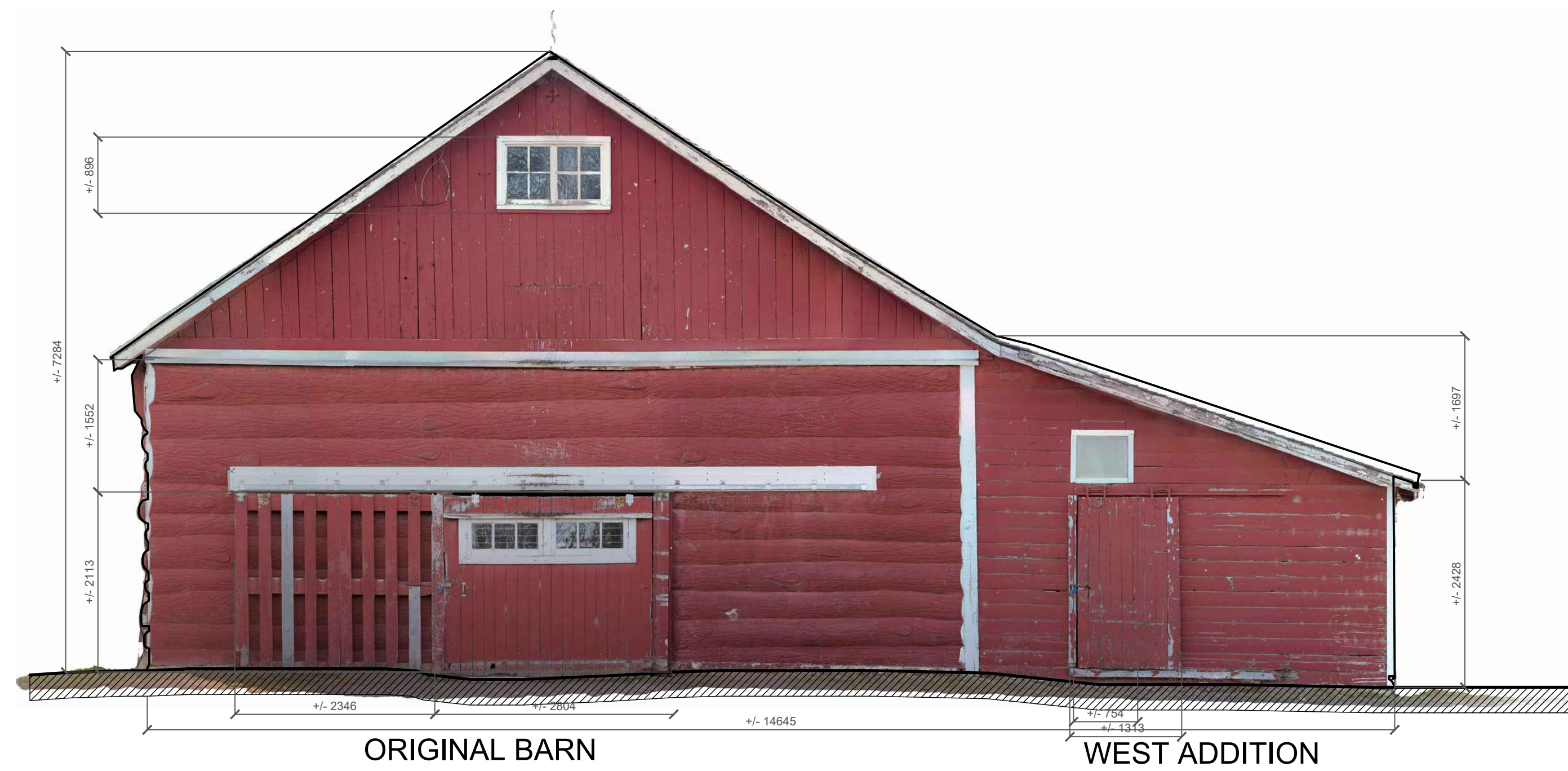
1 TOPOGRAPHIC SURVEY  
EX5 1:100

MACHINE SHED

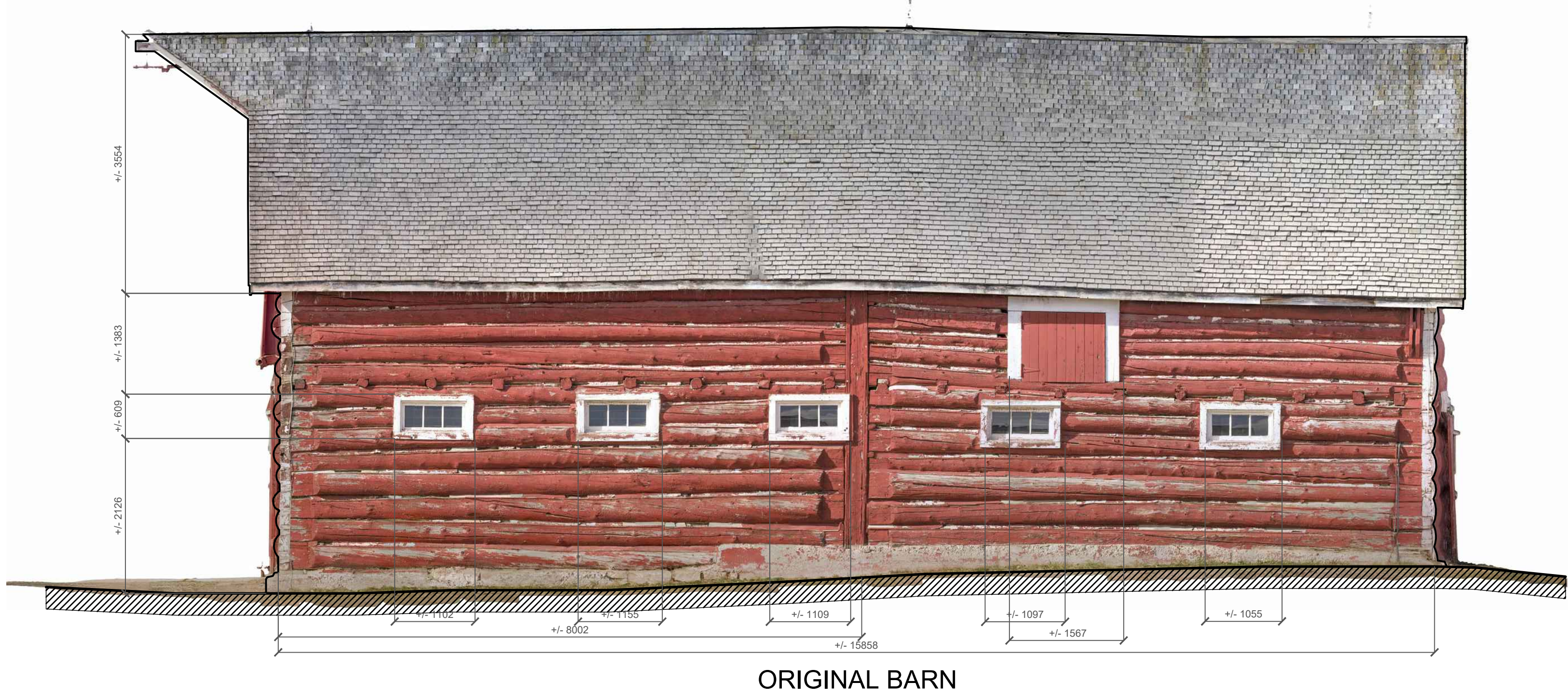


GENERAL NOTES (EX SET):

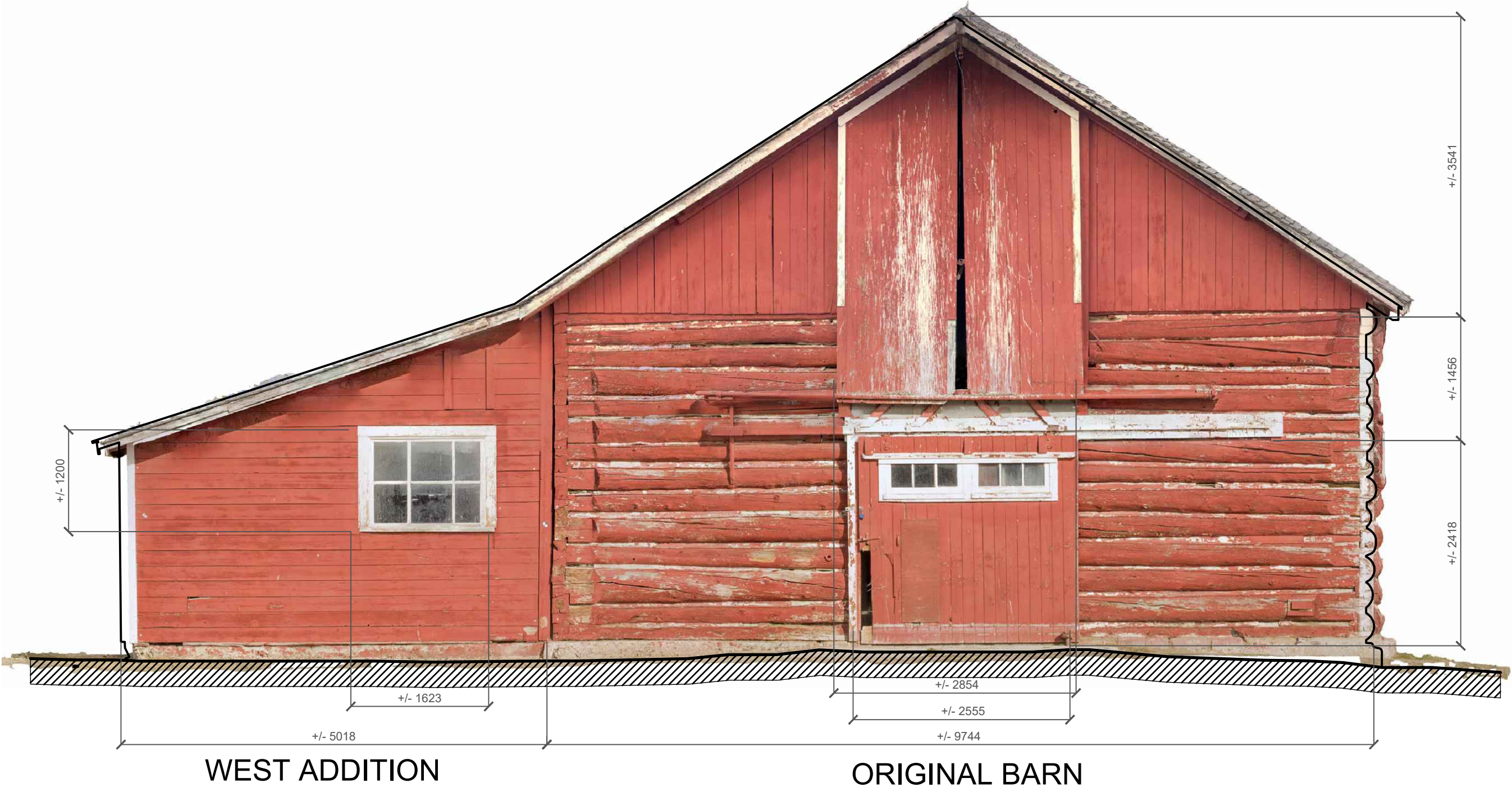
1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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1 NORTH ELEVATION  
EX6 1 : 50



2 EAST ELEVATION  
EX6 1 : 50



3 SOUTH ELEVATION  
EX6 1 : 50



4 WEST ELEVATION  
EX6 1 : 50

NOTE: SEE DWGS EX7-EX10 FOR DETAIL ELEVATIONS

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Client: PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project: LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by: A. PIWOWAR  
Drawn by: HCS  
Checked by: D. STEPHENSON/ C. BOUFFARD-LIMA  
Project Manager: G. SPENCE

Drawing title: PHOTOGRAMMETRIC  
ELEVATIONS

Project no./No. du projet: R.083678.001  
Drawing no./No. du dessin: EX6  
Revision no.: OF 33



GENERAL NOTES (EX SET):

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Client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project

LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by

A. PIWOWAR

Drawn by

HCS

Checked by

D. STEPHENSON/ C. BOUFFARD-LIMA

Project Manager

G. SPENCE

Project no./No. du projet

R.083678.001

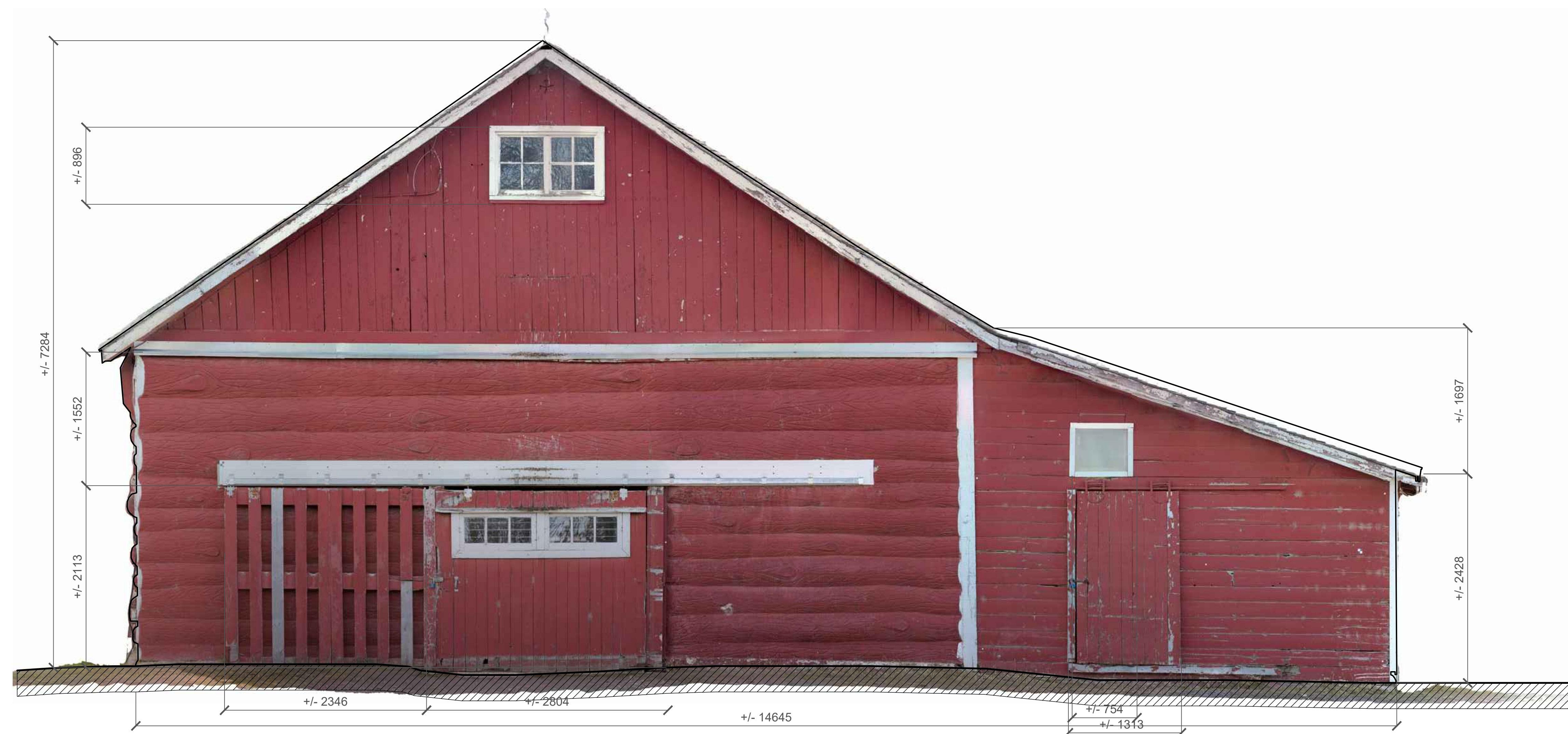
Drawing title

NORTH  
ELEVATION CONDITIONS

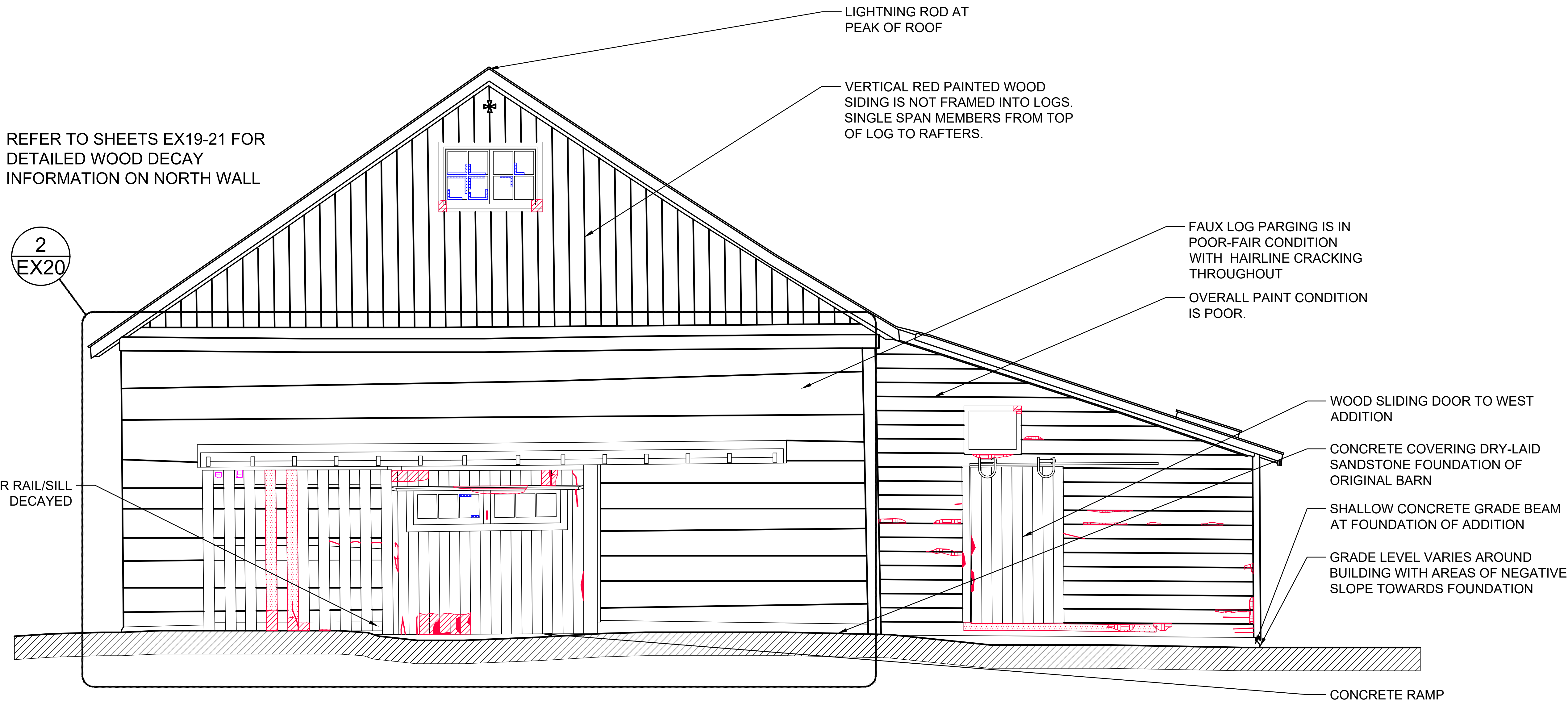
Revision no.

EX7

OF 33

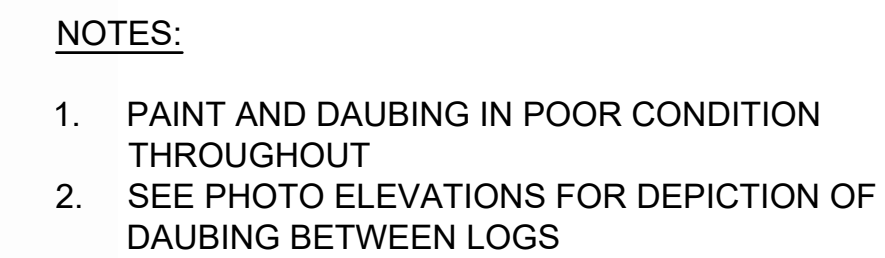


1 NORTH ELEVATION  
EX7 1:30



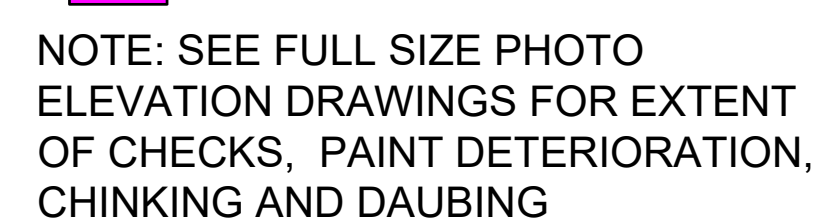
2 NORTH ELEVATION EXISTING CONDITION  
EX7 1:30





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## 1 : 30



## FX84



GENERAL NOTES (EX SET):

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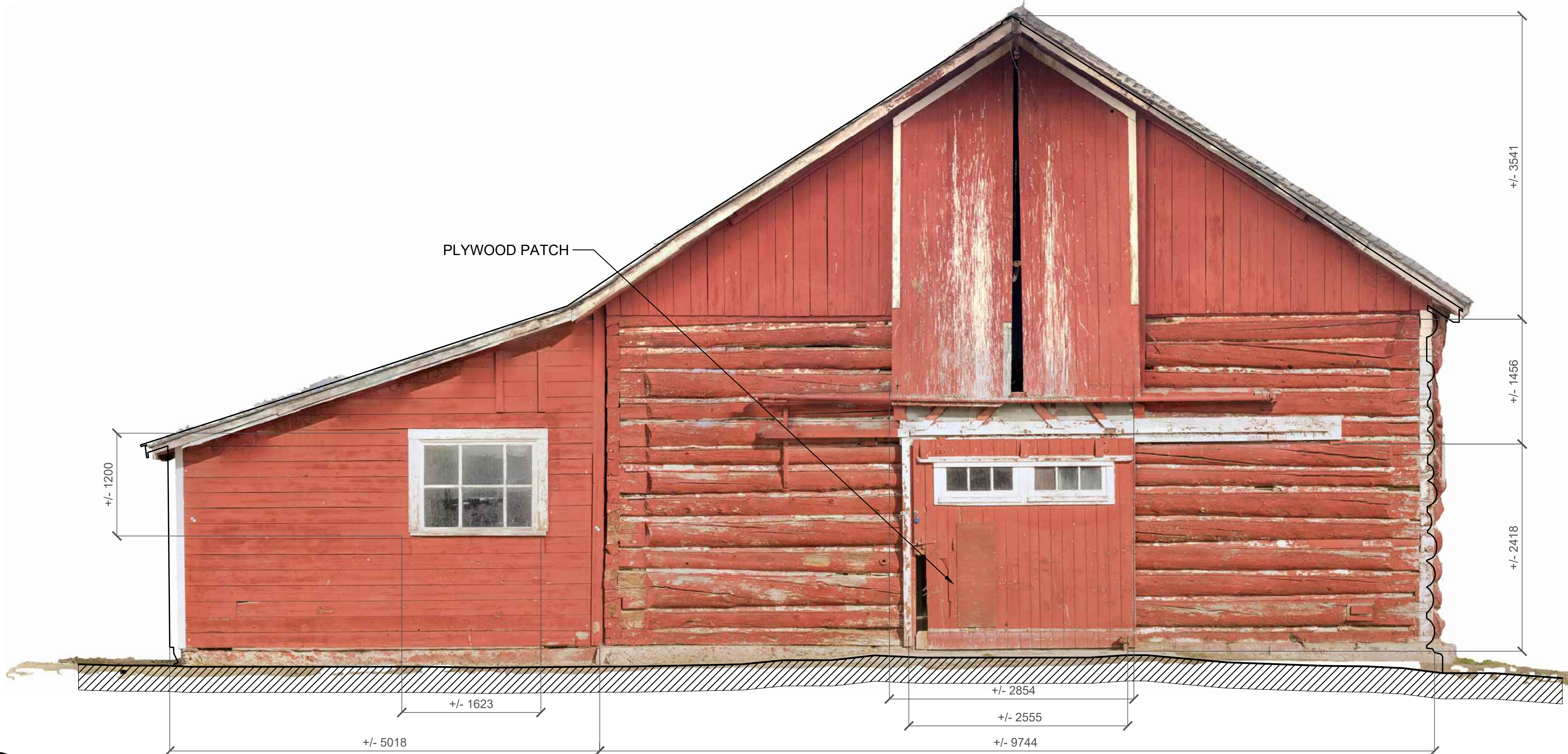
PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project: LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

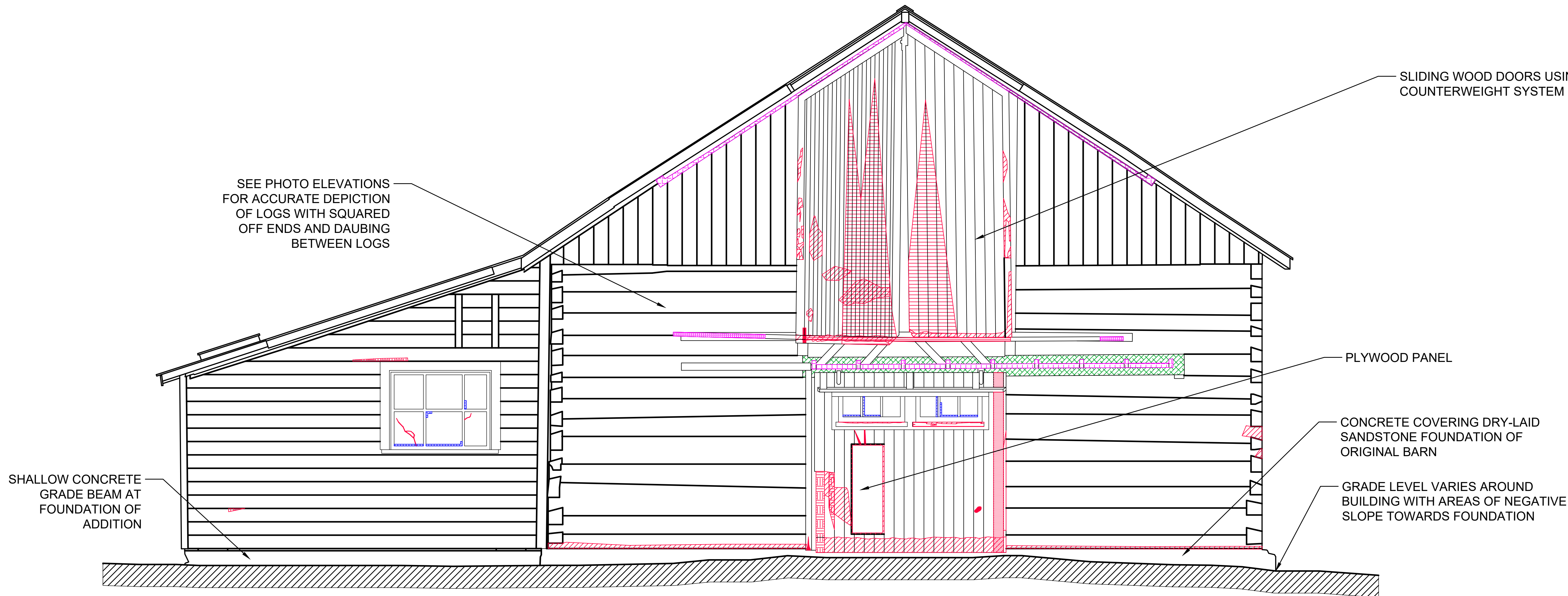
Designed by: A. PIWOWAR  
Drawn by: HCS  
Checked by: D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager: G. SPENCE  
Administrateur de Projets TPSGC

Drawing title: SOUTH  
ELEVATION CONDITIONS

Project no./No. du projet: R.083678.001  
Drawing no./No. du dessin: EX9  
Revision no.: OF 33



1 SOUTH ELEVATION  
EX9 1:30



EXAMPLES OF TYPICAL  
DETERIORATION

WOOD

- CHECKS\*
  - VISIBLE DECAY
  - SOILING
  - LOOSE PIECE
  - MISSING SIDING
- WINDOWS
- BROKEN GLASS
  - FAILED CAULKING
  - MISSING PUTTY

PAINT

- ALLIGATORING\*
- METAL
- CORROSION



NOTE: SEE FULL SIZE PHOTO ELEVATION DRAWINGS FOR EXTENT OF CHECKS, PAINT DETERIORATION, CHINKING AND DAUBING

2 SOUTH ELEVATION EXISTING CONDITION  
EX9 1:30



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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PUBLIC SERVICES AND  
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(PSPC)

Project: LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by: A. PIWOWAR

Drawn by: HCS

Checked by: D. STEPHENSON/ C. BOUFFARD-LIMA

Project Manager: G. SPENCE

Project Manager: G. SPENCE

Project Manager: G. SPENCE

Project Manager: G. SPENCE

Project Manager: G. SPENCE

Project Manager: G. SPENCE

Project Manager: G. SPENCE

Project Manager: G. SPENCE

Project Manager: G. SPENCE

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Project Manager: G. SPENCE

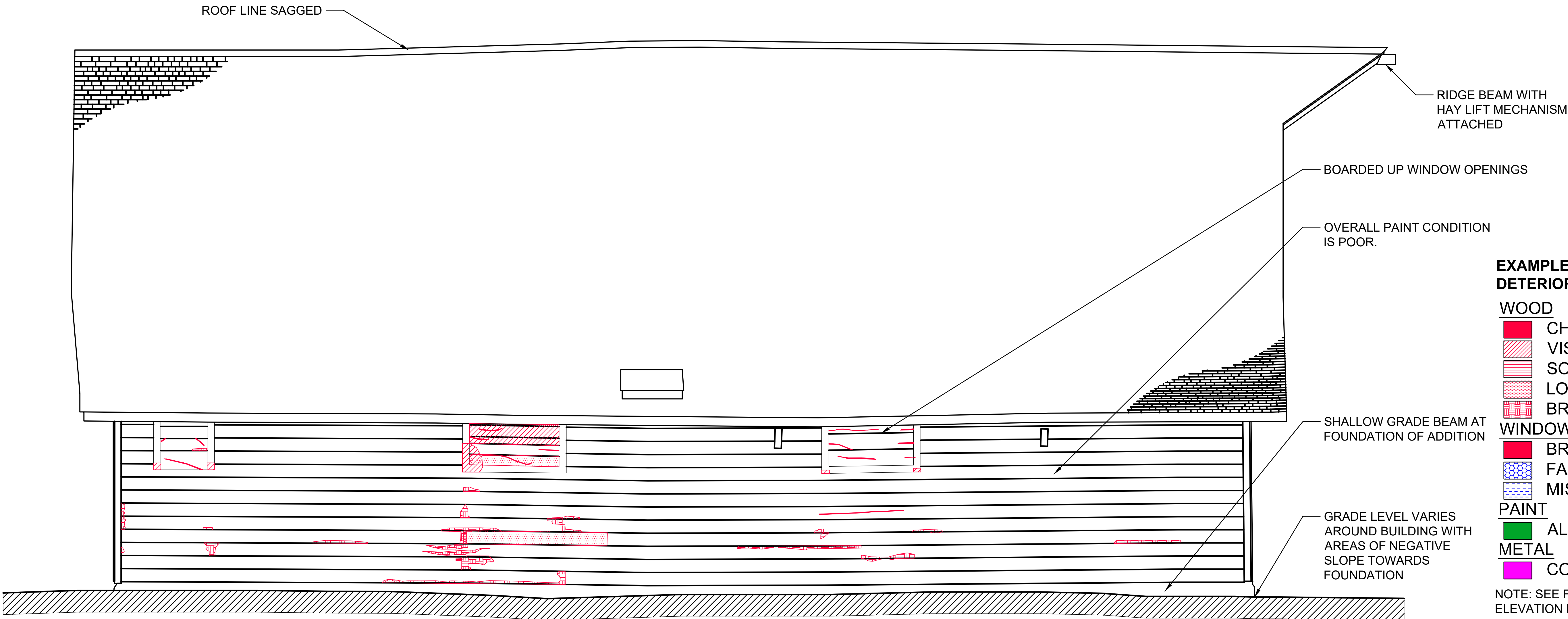
Project Manager: G. SPENCE

NOTE:

SEE EX-18 FOR PHOTO VIEW OF WEST  
ELEVATION OF MAIN BARN. CONSTRUCTION  
OF WALL AND FOUNDATION SIMILAR TO  
EAST ELEVATION



1 WEST ELEVATION  
EX10 1:30



EXAMPLES OF TYPICAL  
DETERIORATION

WOOD

- CHECKS\*
- VISIBLE DECAY
- SOILING
- LOOSE PIECE
- BROKEN SIDING

WINDOWS

- BROKEN GLASS
- FAILED CAULKING
- MISSING PUTTY

PAINT

- ALLIGATORING\*

METAL

- CORROSION

NOTE: SEE FULL SIZE PHOTO  
ELEVATION DRAWINGS FOR  
EXTENT OF CHECKS, PAINT  
DETERIORATION, CHINKING AND  
DAUBING

2 WEST ELEVATION EXISTING CONDITION  
EX10 1:30



GENERAL NOTES (EX SET):

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PUBLIC SERVICES AND  
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LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by A. PIWOWAR

Drawn by HCS

Approved by D. STEPHENSON/ C. BOUFFARD-LIMA

Project Manager G. SPENCE

Drawing title

EXISTING  
POINT CLOUD PLANS  
AND PERSPECTIVES

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
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R.083678.001

EX11

OF 33



1 FIRST FLOOR POINT CLOUD PLAN  
EX11 1: 50



3 1ST FLOOR LOOKING NORTH  
EX11



4 1ST FLOOR LOOKING SOUTH  
EX11



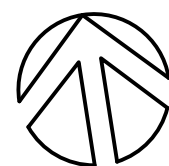
2 SECOND FLOOR POINT CLOUD PLAN  
EX11 1: 50



5 2ND FLOOR LOOKING NORTH  
EX11



6 2ND FLOOR LOOKING SOUTH  
EX11





GENERAL NOTES (EX SET):

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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by A. PIWOWAR  
Drawn by HCS  
Checked by D. STEPHENSON/ C. BOUFFARD-LIMA  
PWOSC Project Manager G. SPENCE  
Approve: pwosc

Drawing title  
EXISTING  
FIRST FLOOR PLAN

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX12	OF 33

NOTES:

- 1 CONCRETE SLAB AISLEWAY
- 2 CONCRETE APRON w/ BRANDING SYMBOLS
- 3 WOOD FLOOR-2 LAYERS
- 4 2 LAYERS 25 x 180 FLOORBOARDS IN N-S DIRECTION SLOPED TOWARDS AISLE W/ TOP LAYER T & G ON 50 X 150 JOISTS @ 610 OC. JOISTS ARE SUPPORTED AT THIRD POINTS BY 50150 SILL IN N-S DIRECTION ON STONE FOUNDATION. ASSUME FLOOR BOARDS ARE NAILED THROUGH TO JOISTS.
- 5 SADDLE HOLDERS, TYP.
- 6 SADDLE HOLDERS
- 7 90 Ø WOOD POST
- 8 120 Ø WOOD POST
- 9 140 x 120 3 PLY WOOD COLUMN (40 x 140 EA. PLY)
- 10 150 x 150 SOLID WOOD COLUMN
- 11 TACK HOLDER
- 12 TYPICAL HORSE STALLS w/ SLOPED FLOORS, MANGERS & FEEDERS
- 13 OPEN WOOD STAIRS-13 RISERS TOTAL
- 14 RECTANGULAR HOLES IN FLOOR ASSUMED TO BE LOCATION OF PREVIOUS COLUMNS
- 15 WOOD FEED CONTAINER
- 16 WOOD FEEDER
- 17 WOOD MANGER
- 18 HOLES IN LOGS LINED UP VERTICALLY. ASSUMED LOCATION OF ORIGINAL STALLS.
- 19 PLYWOOD FLOOR SLOPED TOWARDS AISLE
- 20 WOOD FLOOR-255-260 WIDE
- 21 10 PLYWOOD ON CORRIDOR SIDE. 10 BOARD ON SADDLE HOLDER SIDE. WALL STRUCTURE UNKNOWN.
- 22 EXTERIOR SLIDING WOOD DOOR
- 23 INTERIOR WOOD DOOR
- 24 FEEDING TROUGH
- 25 EXTERIOR SLIDING WOOD DOOR
- 26 EXTERIOR WOOD WINDOW
- 27 TEMPORARY BEAM JOINT SUPPORT 150 X 150 WOOD POST
- 28 METAL BARS
- 29 RAMP SLAB ON GRADE
- 30 METAL TIE HOOK CONNECTOR FROM WEST WALL OF ADDITION THROUGH TO WEST WALL OF MAIN BARN. REFER TO PHOTO DETAIL 8/EX20.

SLIDING WOOD DOOR TO  
WEST ADDITION

WINDOW OPENINGS  
BOARDED UP

50 X 150 STUDS  
AT 610 O.C.  
BALLOON FRAME  
STUD WALL ON  
CONCRETE  
FOUNDATION

METAL TIE HOOK CONNECTOR  
FROM WEST WALL OF ADDITION  
THROUGH TO WEST WALL OF  
MAIN BARN. REFER TO PHOTO  
DETAIL 8/EX20.

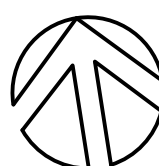
SLIDING WOOD DOOR

LOGS CUT FLAT AT  
CORNERS FOR  
DOVETAIL  
CONNECTIONS (TYP)

LOG WALL ON  
SANDSTONE  
FOUNDATION (TYP)

SLIDING WOOD  
DOOR

1  
EX12  
FIRST FLOOR PLAN  
1:30





GENERAL NOTES (EX SET):

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Real Property Branch  
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Services de la Conservation du Patrimoine  
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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by A. PIWOWAR  
Project by HCS  
Checked by D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager G. SPENCE  
Approve by Administrateur de Projets TPSGC

Drawing title FIRST FLOOR  
CONDITIONS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX13	
	OF 33	



2 CONDITION OF CONCRETE SLAB IN CENTRE AISLE  
EX13



3 LOCALIZED HEAVING OF CONCRETE SLAB  
EX13



4 SPALLS IN CONCRETE SLAB  
EX13



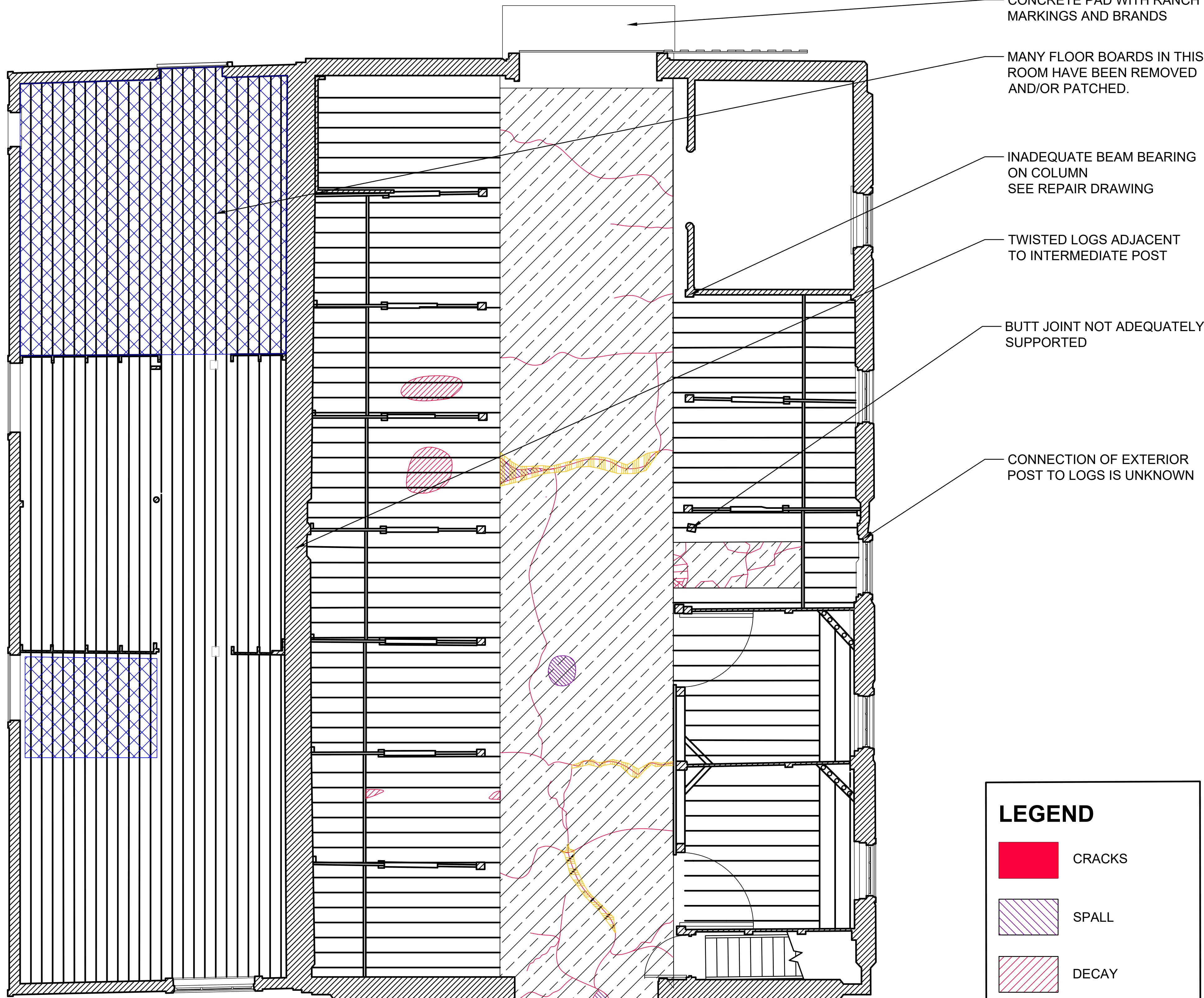
5 CONDITION OF CONCRETE SLAB AT SOUTH ENTRANCE  
EX13



6 CRACKING AND SPALLS IN CONCRETE SLAB  
EX13



7 RANCH BRANDINGS IN NORTH CONCRETE SLAB  
EX13



CONDITION NOTES

- EXTENSIVE CRACKING APPARENT THROUGHOUT CONCRETE SLAB
- CRACKS VARY IN WIDTH FROM 6MM TO 40MM
- TOP LAYER OF SLAB IS HOLLOW SOUNDING, EXCEPT FOR SMALL AREA AT NORTH WALL
- VERTICAL DISPLACEMENT (HEAVING) ACROSS SOME CRACKS
- LAYOUT OF FLOOR BOARDS ARE REPRESENTATIVE. EXACT SIZE AND LOCATION OF BOARDS TO BE CONFIRMED ON SITE

LEGEND

- CRACKS
- SPALL
- DECAY
- HOLLOW SOUNDING
- HEAVING
- BROKEN/MISSING FLOOR BOARD

1 FIRST FLOOR CONDITION PLAN  
EX13 1 : 40



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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project		Project
	LONGVIEW, ALBERTA	

2018-2019

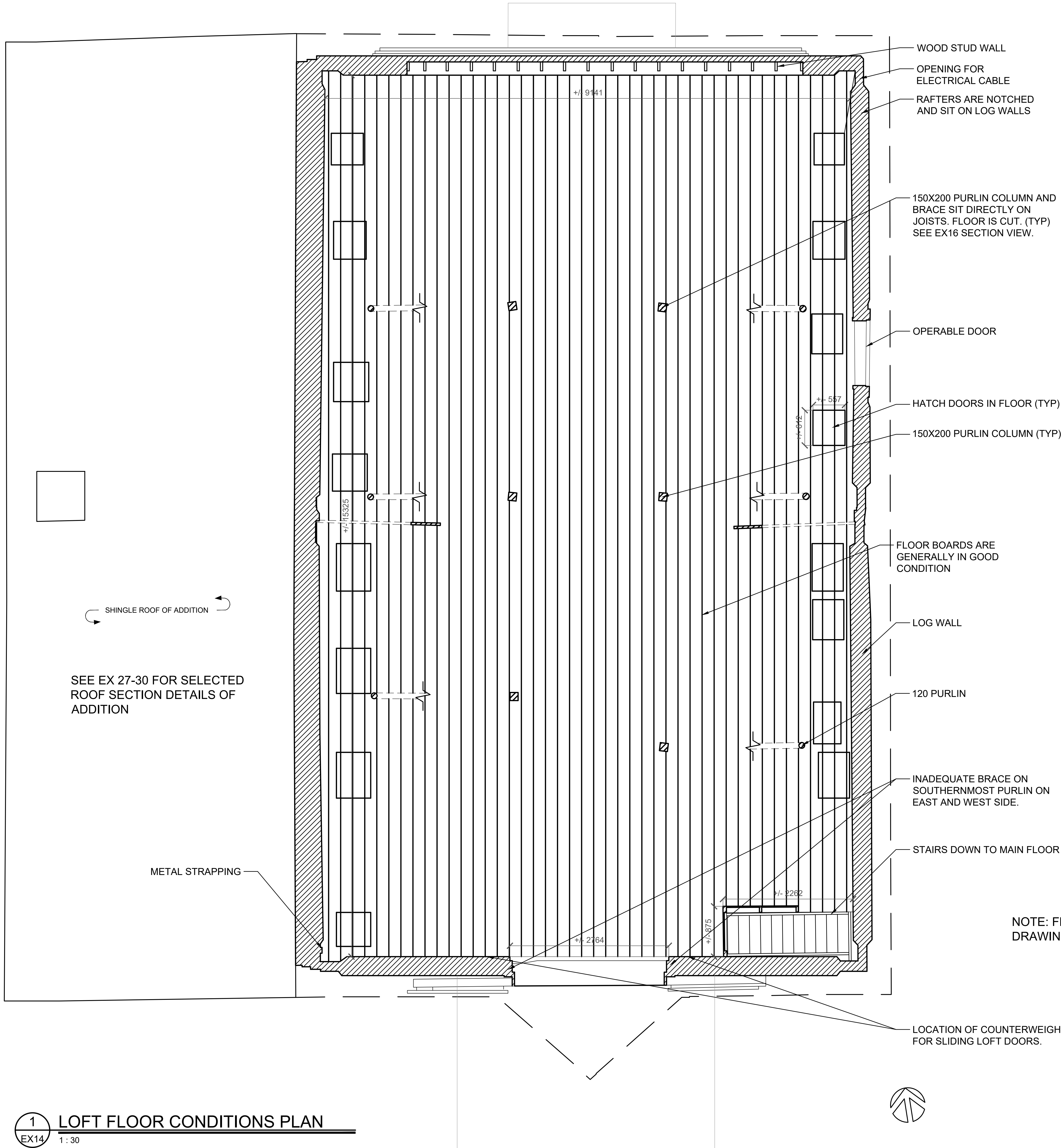
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by	Design: psd
A. PIOWAR	
Drawn by	Dessiné: psd
HCS	
Checked by	Approuvé: psd
D. STEPHENSON/ C. BOUFFARD-LIMA	
Project Manager	Administrateur de Projets: TPSGC
G. SPENCE	
Drawing title	Date du dessin

SECOND FLOOR  
CONDITIONS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX14	

OF 33





GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
2. THIS EX DRAWING SET IS ISSUED FOR REFERENCE INFORMATION ON EXISTING STRUCTURE AND CONDITIONS.

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Real Property Branch  
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Services Publics et Approvisionnement Canada

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Client	Client	Client

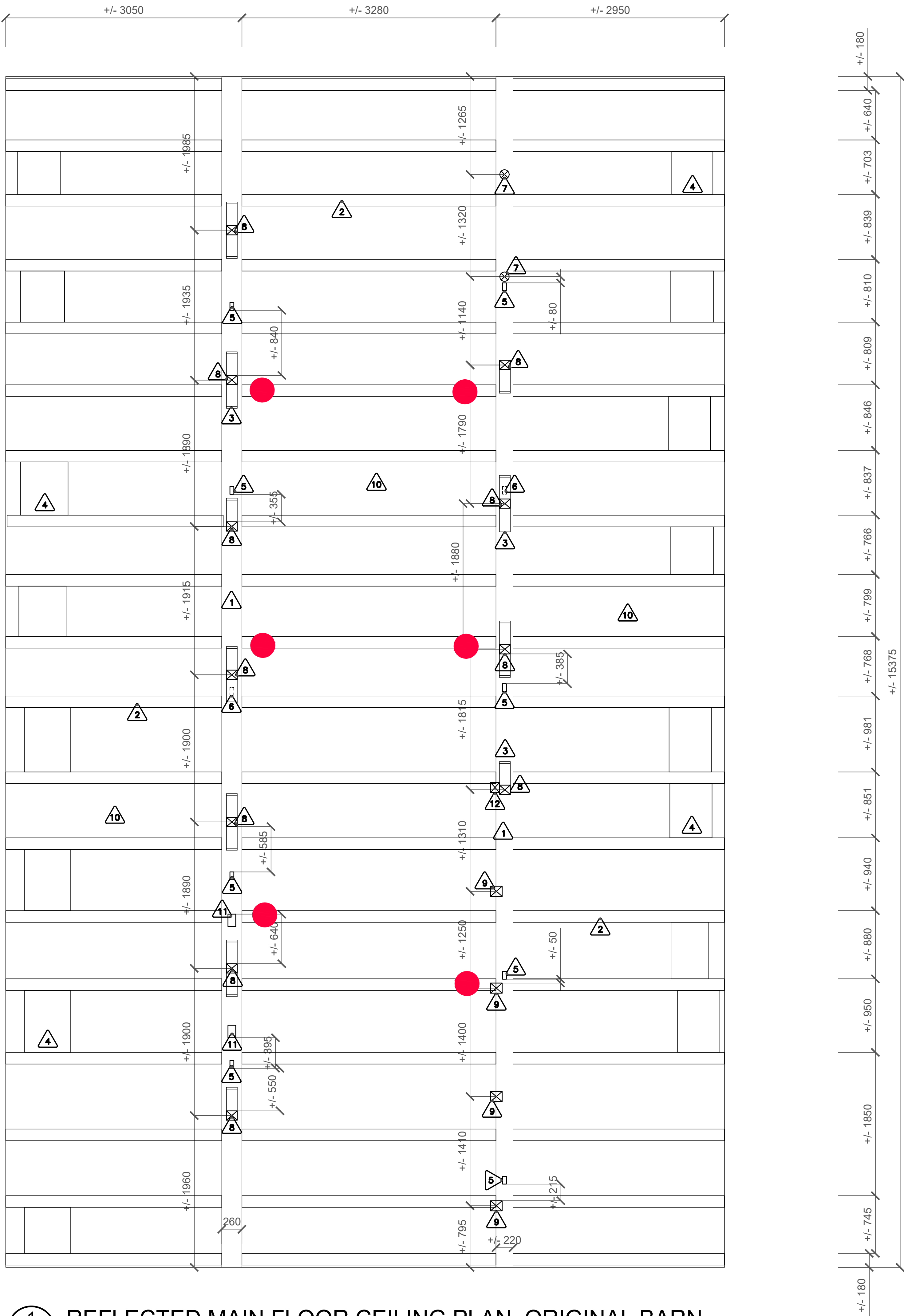
PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project	Project
LONGVIEW, ALBERTA	
2018-2019	
BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION	

Designed by	Conçu par
A. PIOWAR	
Drawn by	Dessiné par
HCS	
Checked by	Approuvé par
D. STEPHENSON/ C. BOUFFARD-LIMA	
PWGSC Project Manager	Administrateur de Projets TPSGC
G. SPENCE	

Drawing title	Date du dessin
FIRST FLOOR REFLECTED CEILING PLAN	

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX15 OF 33	



1 REFLECTED MAIN FLOOR CEILING PLAN, ORIGINAL BARN  
EX15 1 : 30

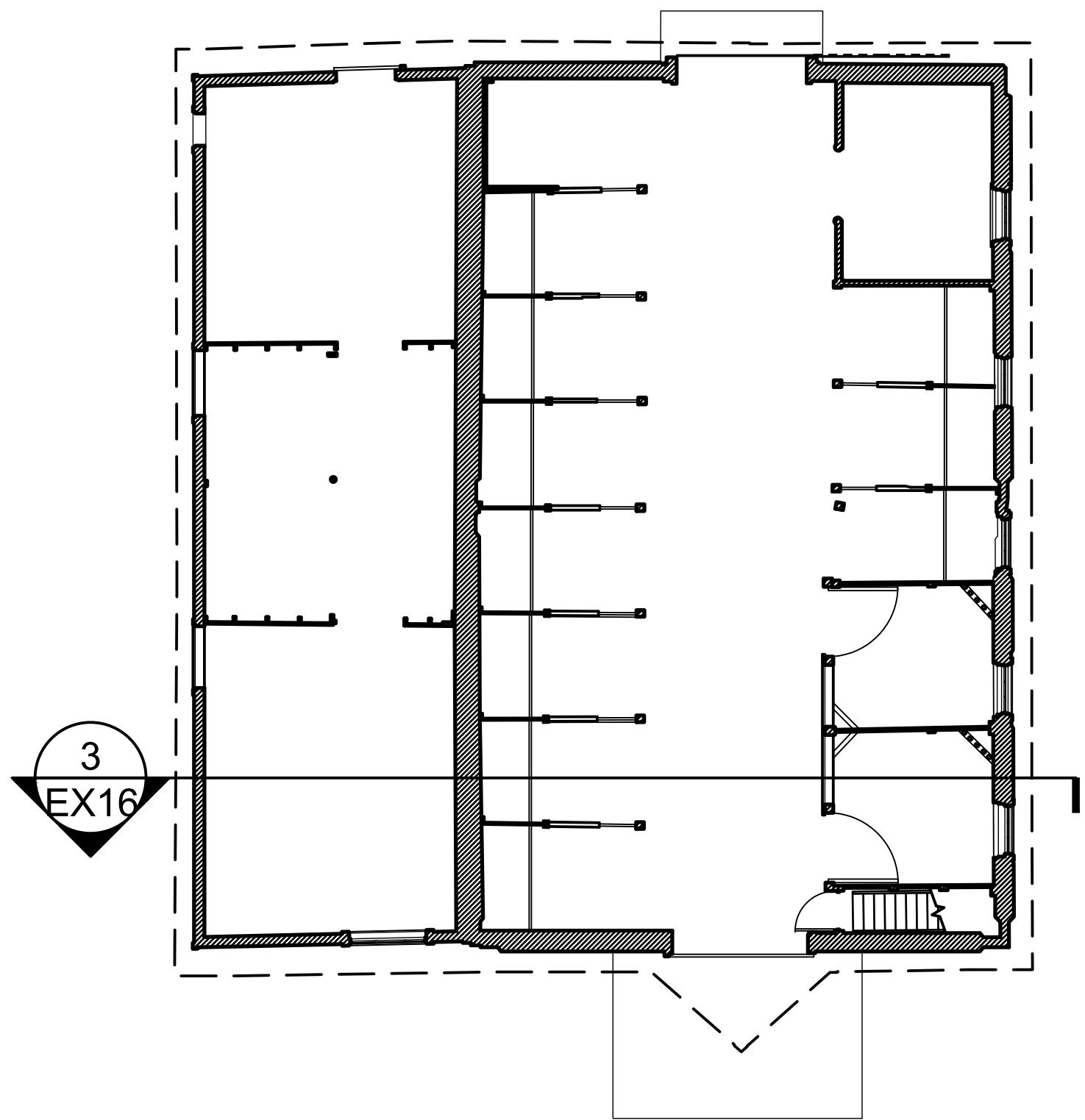
NOTES:

- 1 TYPICAL WOOD LOG BEAM, HEWN TOP & BOTTOM
- 2 TYPICAL WOOD LOG JOISTS, HEWN TOP & BOTTOM  
WIDTHS VARY-AVERAGE SIZE 150
- 3 TYPICAL 40 x 140 UNFINISHED WOOD BRACING
- 4 LINE OF FLOOR HATCHES (FOR HAY) FROM LOFT.
- 5 50 x 100 NOTCHES ALIGN W/ HOLES IN LOGS.  
ASSUMED LOCATION OF ORIGINAL STALLS.  
NOTE:AT SOME LOCATIONS, HOLES ARE NOT  
READILY VISIBLE.
- 6 ASSUMED LOCATION OF 50 x 100 NOTCHES.
- 7 120 Ø WOOD POST
- 8 140 x 120 3 PLY WOOD COLUMN
- 9 150 x 150 SOLID WOOD COLUMN
- 10 20 x 140 PLAIN BOARDS w/ 20 x 170 SHIPLAP  
BOARDS ON TOP. BOARDS RUN PERPENDICULAR  
TO JOISTS.
- 11 100 x 160 NOTCHES. ASSUMED PREVIOUS  
COLUMN LOCATION.
- 12 TEMPORARY JOINT SUPPORT 150 X 150 WOOD POST
- LOCATION OF PURLIN TAKING LOAD  
FROM ROOF

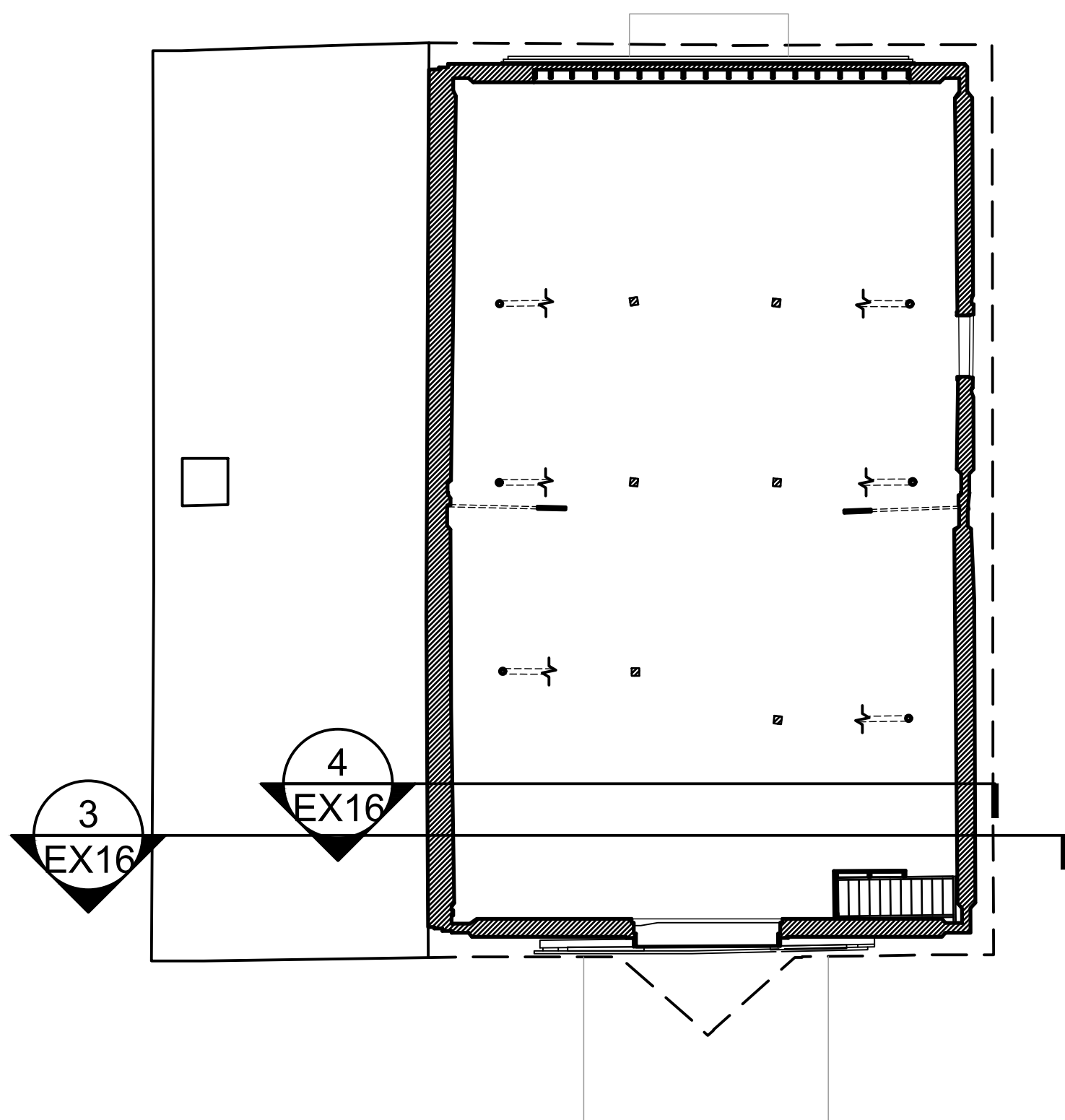
NOTE: BASE DWG FROM 1993 HERITAGE RECORDING.  
DIMENSIONS TO BE VERIFIED ON SITE.



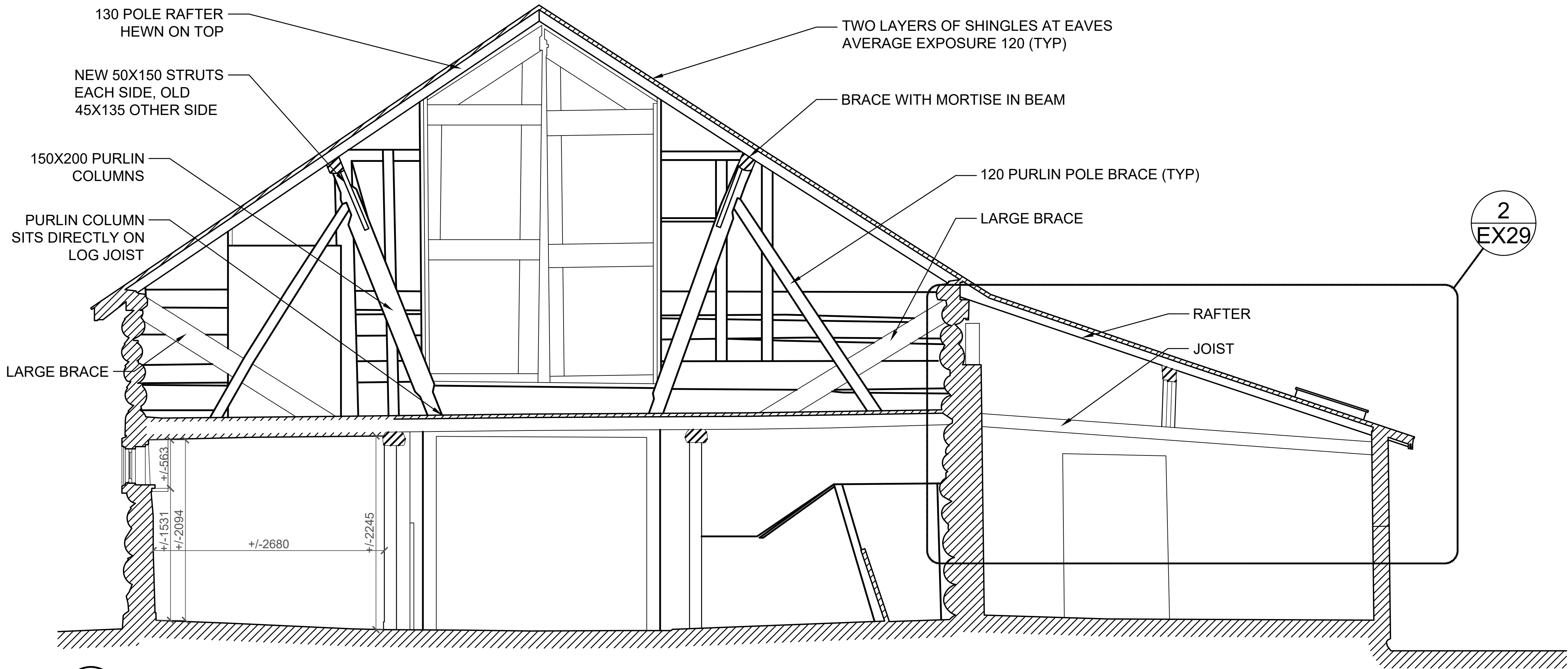
- GENERAL NOTES (EX SET):
1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
  2. THIS EX DRAWING SET IS ISSUED FOR REFERENCE INFORMATION ON EXISTING STRUCTURE AND CONDITIONS.



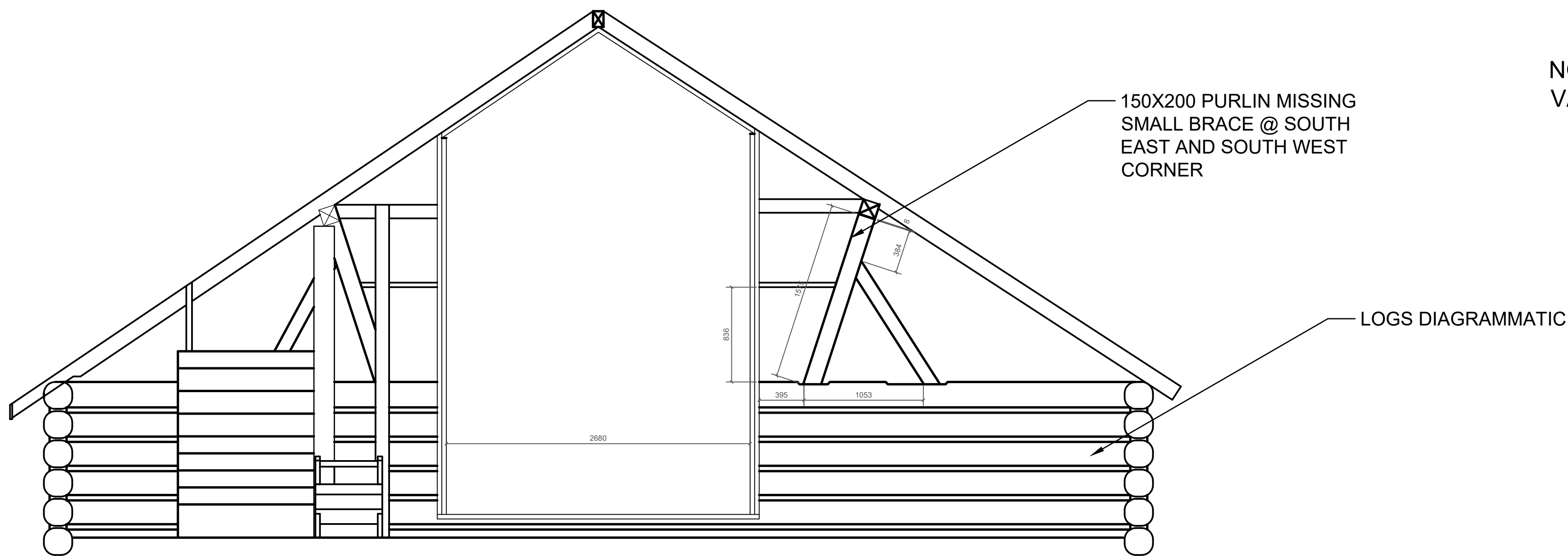
1 FIRST FLOOR KEY PLAN  
EX16 1 : 100



2 LOFT KEY PLAN  
EX16 1 : 100



3 E-W SECTION LOOKING SOUTH  
EX16 1 : 50



4 LOFT SECTION LOOKING SOUTH  
EX16 1 : 50

NOTE: REFER TO EX25-29 FOR VARIOUS STRUCTURE DETAILS



5 FIRST FLOOR LOOKING SOUTH  
EX16



6 SECOND FLOOR LOOKING SOUTH  
EX16

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Services Publics et Approvisionnement Canada

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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by A. PIWOWAR  
Drawn by HCS  
Checked by D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager G. SPENCE  
Administrateur de Projets TPSG

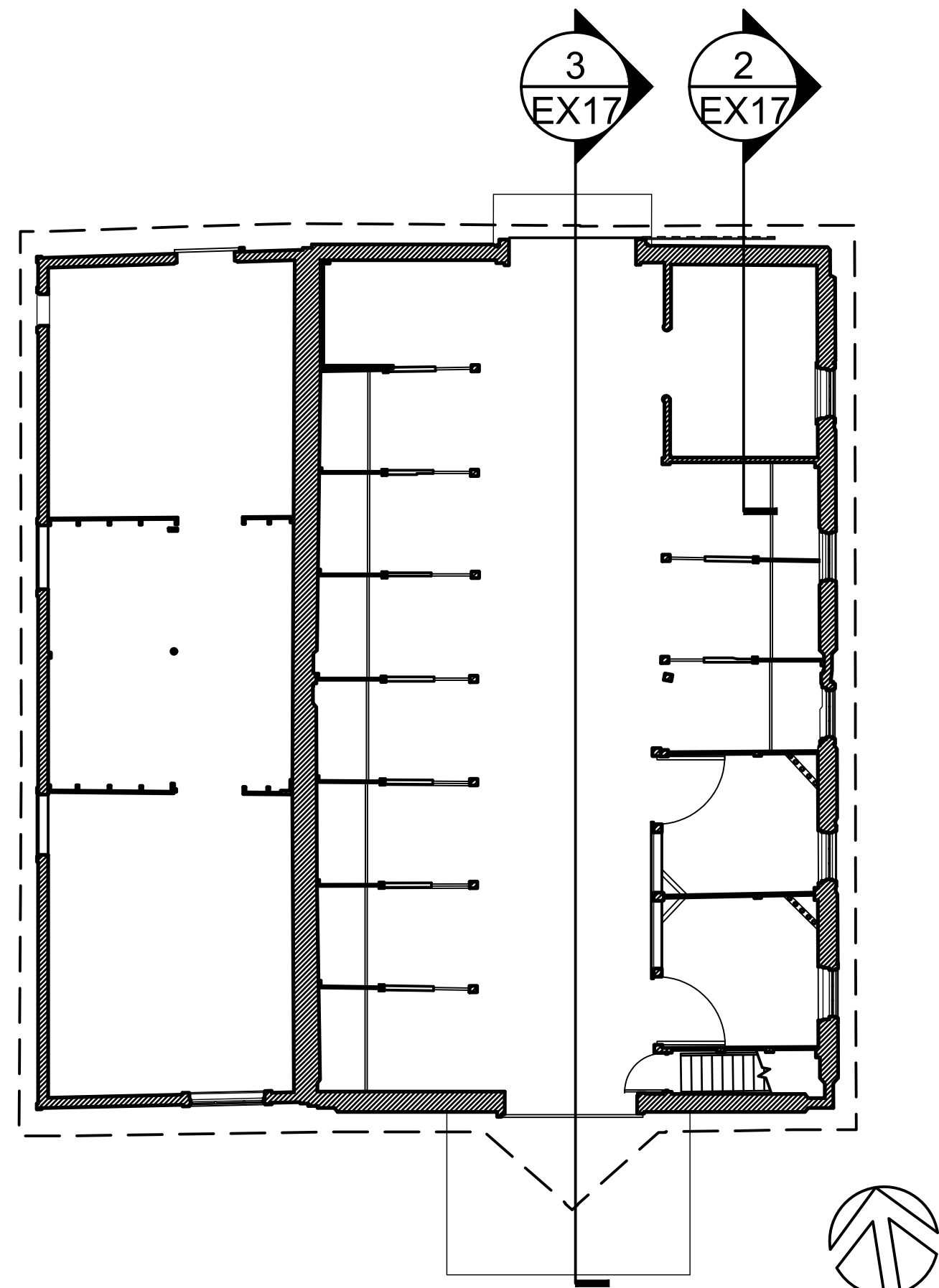
Drawing title E-W SECTIONS  
Revision no.

Project no./No. du projet R.083678.001  
Drawing no./No. du dessin EX16  
Revision no. OF 33



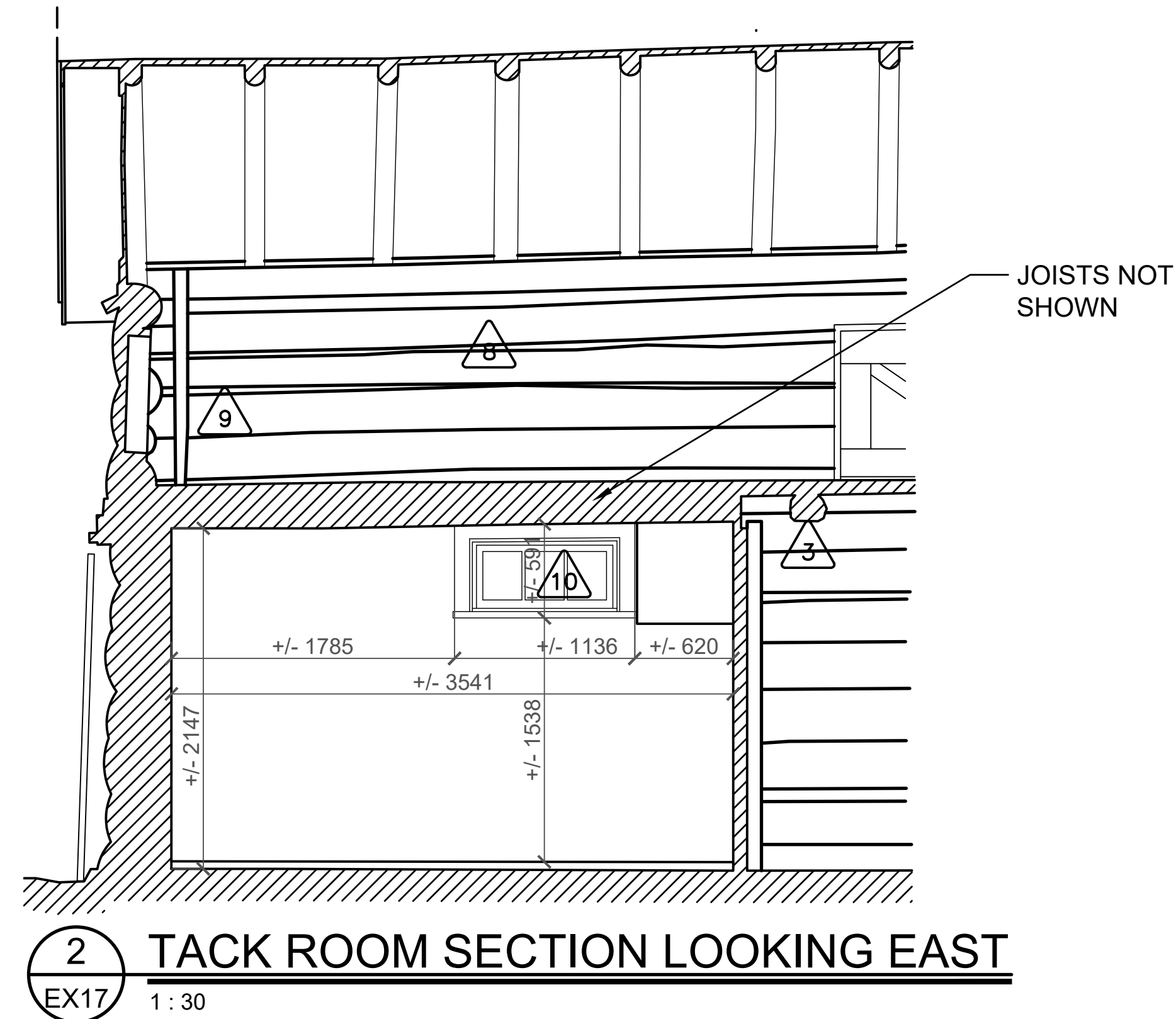
GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
2. THIS EX DRAWING SET IS ISSUED FOR REFERENCE INFORMATION ON EXISTING STRUCTURE AND CONDITIONS.



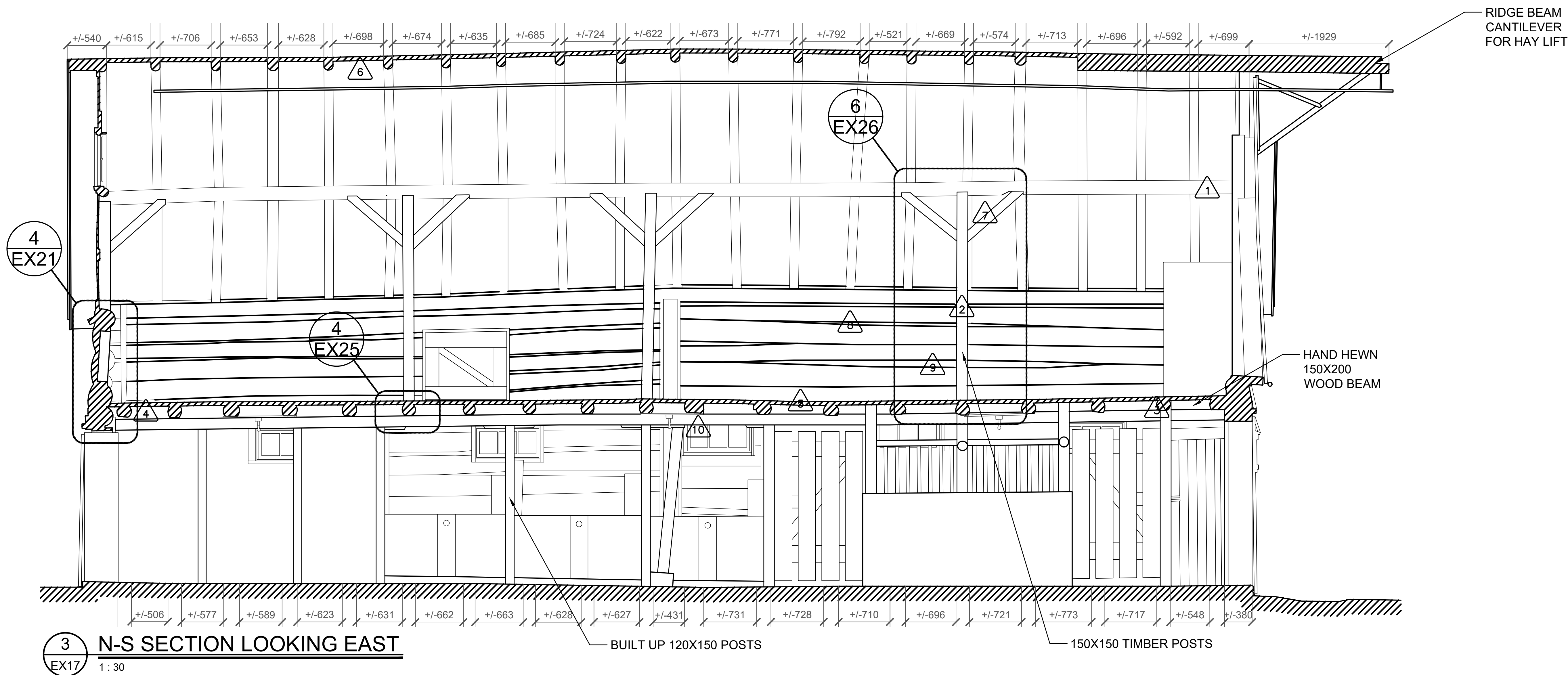
1 FIRST FLOOR KEY PLAN  
EX17 1 : 100

- 1 150x200 PURLIN NOTCHED FOR COLUMNS AND BRACING
- 2 150X200 WOOD PURLIN COLUMN
- 3 150X150 (+/-) LOG JOIST
- 4 150X200 WOOD LOG BEAM
- 5 PLANK FLOOR DECKING 20X170 SHIPLAP BOARDS ON 20X140 PLAIN BOARDS
- 6 130MM DIAMETER WOOD LOG POLE RAFTER @ 800 O.C.
- 7 120 WOOD LOG PURLIN BRACE
- 8 LOG WALL
- 9 WOOD WEDGES BETWEEN LOGS
- 10 EXTERIOR WINDOW
- 11 EXTERIOR OPENING
- 12 WOODEN BOARDS (TYP)



2 TACK ROOM SECTION LOOKING EAST  
EX17 1 : 30

NOTE: REFER TO EX25-29 FOR  
VARIOUS STRUCTURE DETAILS



3 N-S SECTION LOOKING EAST  
EX17 1 : 30

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Real Property Branch  
Public Services and Procurement Canada

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Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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Revision Description Date  
Client client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by Design: pdf  
A. PIWOWAR  
Drawn by Drawn: pdf  
HCS  
Check by Check: pdf  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC: Project Manager Administrateur de Projets: TPSPC  
G. SPENCE

Drawing title Date du dessin  
N-S SECTIONS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX17	OF 33



GENERAL NOTES (EX SET):

- THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Services Publics et Approvisionnement Canada

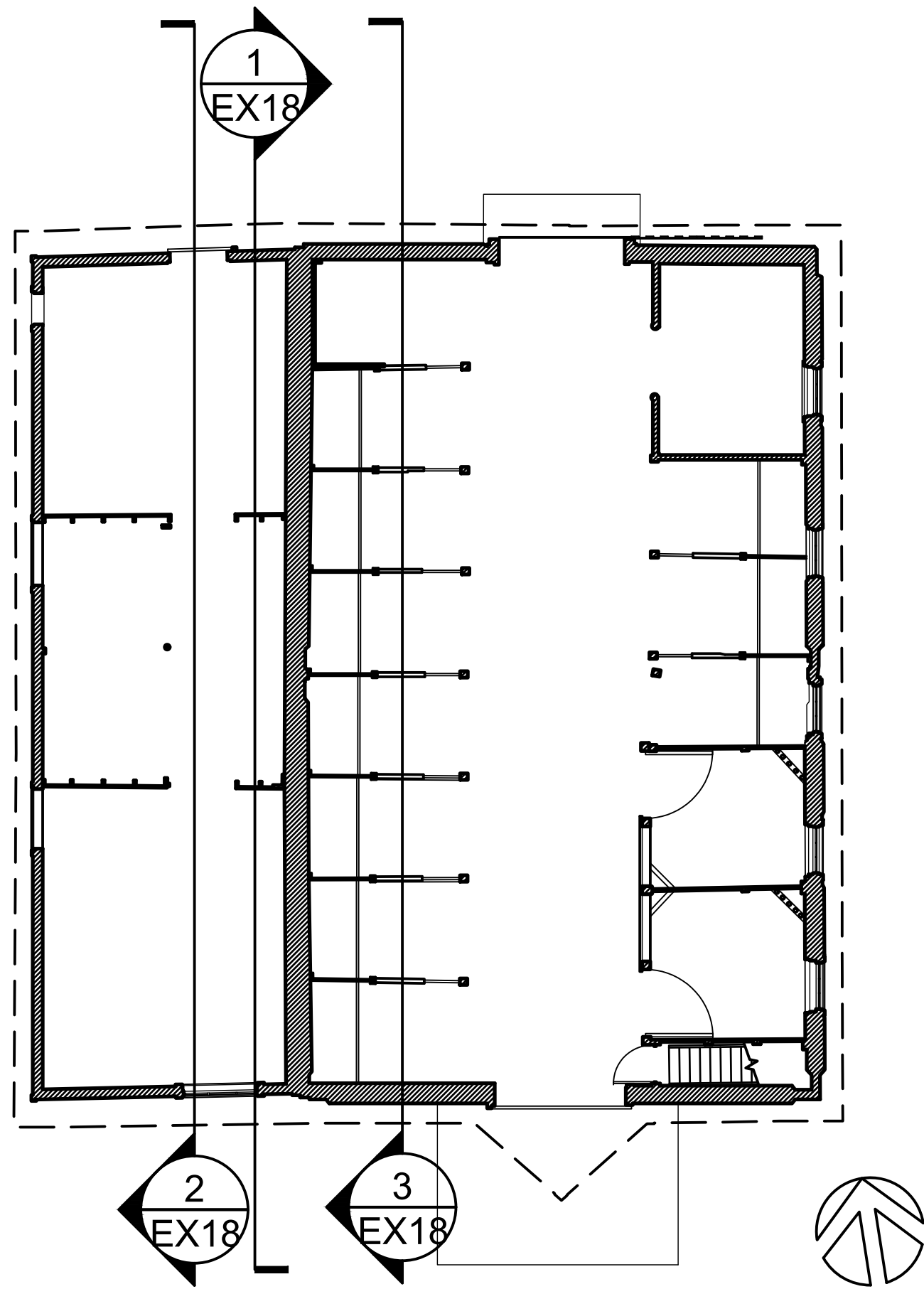
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Revision	Description	Date
Client		Client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
A. PIWOWAR  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager  
G. SPENCE  
Approved by  
Administrateur de Projets TPSGC

Drawing title  
N-S SECTIONS  
Revision no.



1 FIRST FLOOR KEY PLAN  
EX18 1 : 100

NOTE: REFER TO EX25-30 FOR  
VARIOUS STRUCTURE DETAILS

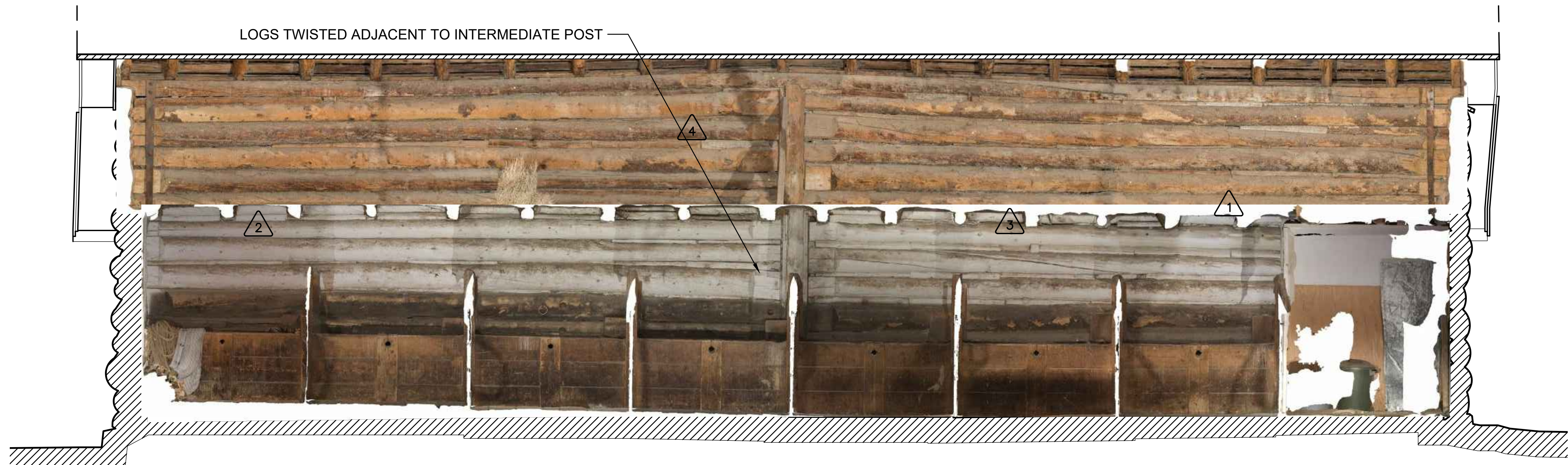
- 1 150X150 (+/-) LOG JOIST
- 2 150X200 WOOD LOG BEAM
- 3 LOG WALL
- 4 WOOD WEDGES BETWEEN LOGS
- 5 EXTERIOR OPENING
- 6 WOODEN BOARDS (TYP)



1 N-S WEST ADDITION SECTION LOOKING EAST  
EX18 1 : 30



2 N-S WEST ADDITION SECTION LOOKING WEST  
EX18 1 : 30



3 N-S SECTION LOOKING WEST  
EX18 1 : 30



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project	Project
LONGVIEW, ALBERTA	

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by	Drawn by
A. PIWOWAR	

Drawn by	Checked by
HCS	

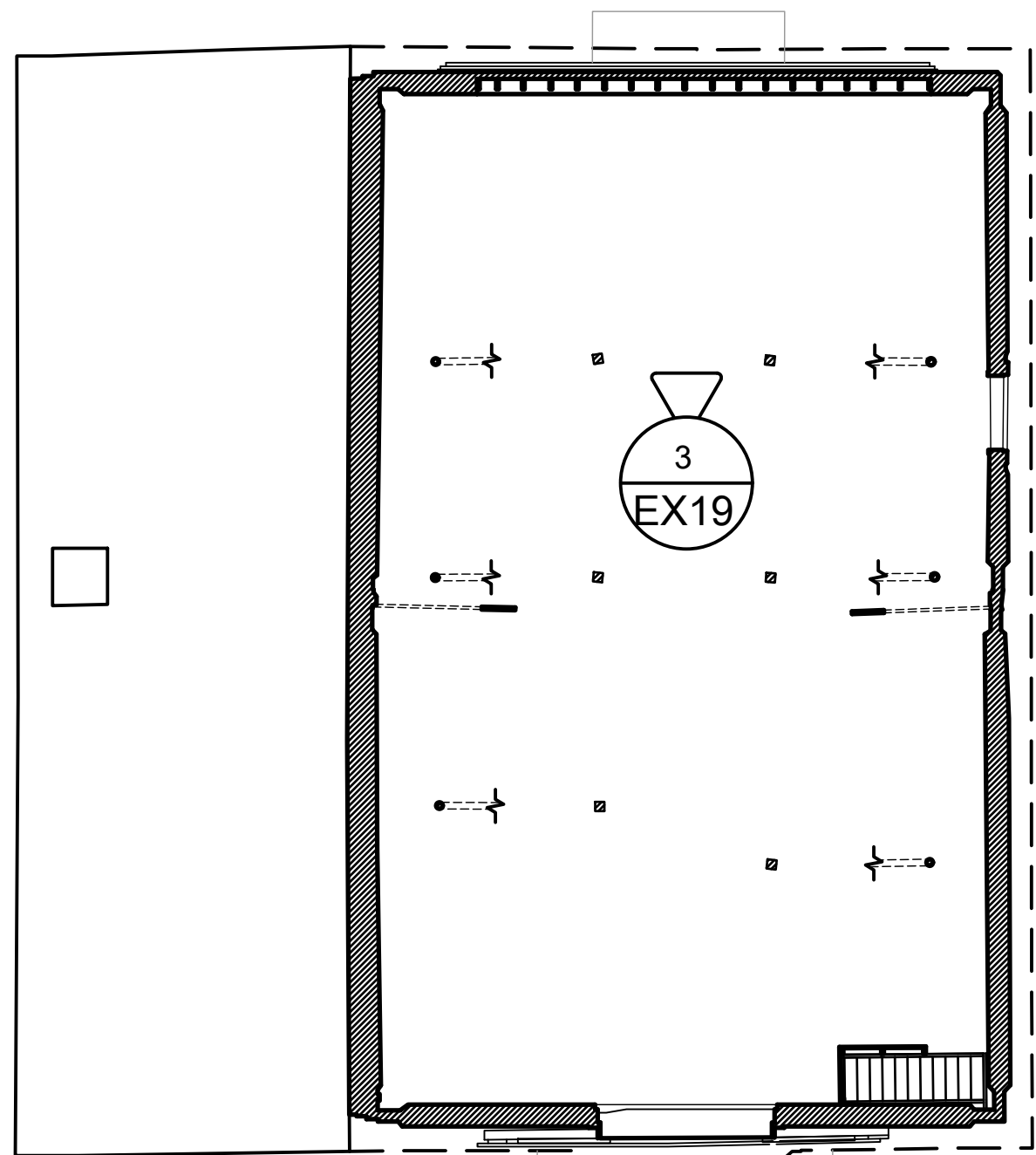
Approved by	Approved by
D. STEPHENSON/ C. BOUFFARD-LIMA	

PWOSC Project Manager	Administrateur de Projets TPSOC
G. SPENCE	

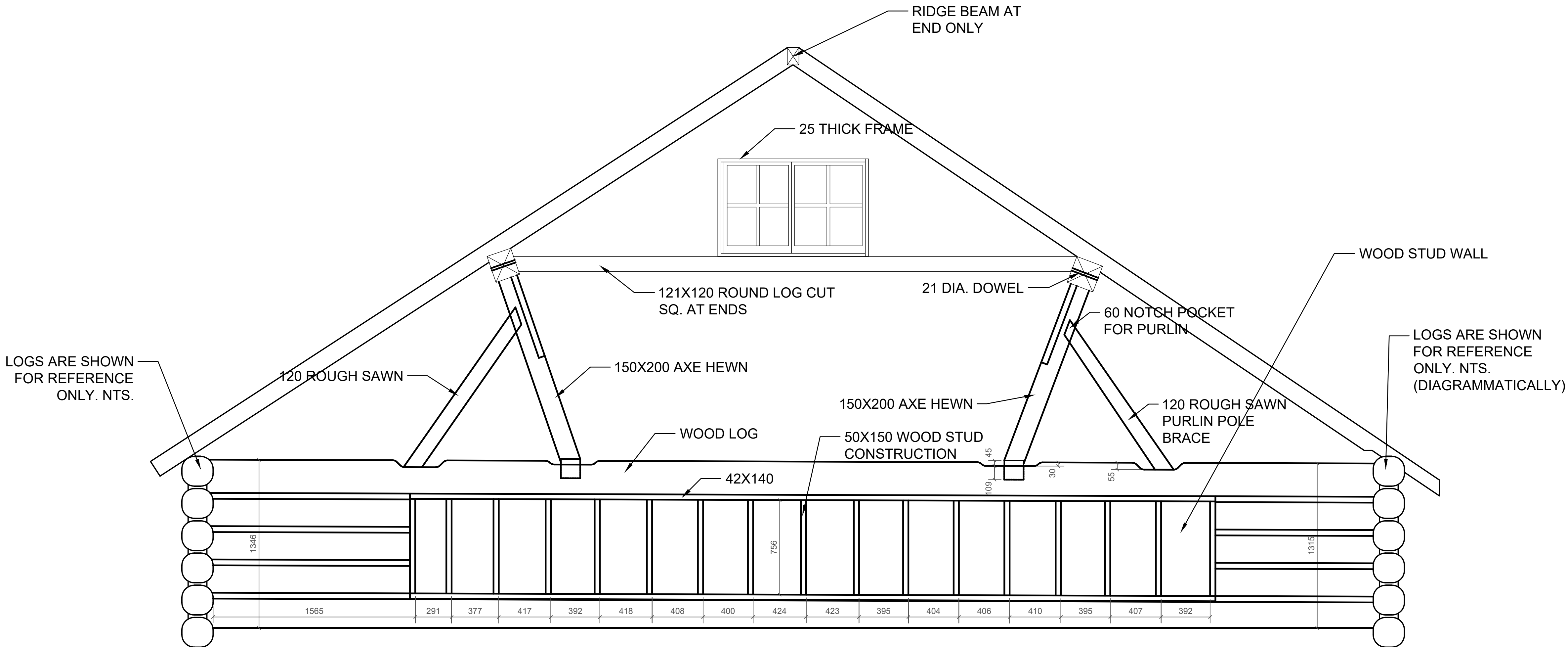
Drawing title	Date du dessin
SECTIONS	

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
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1 FIRST FLOOR KEY PLAN  
EX19 1 : 100



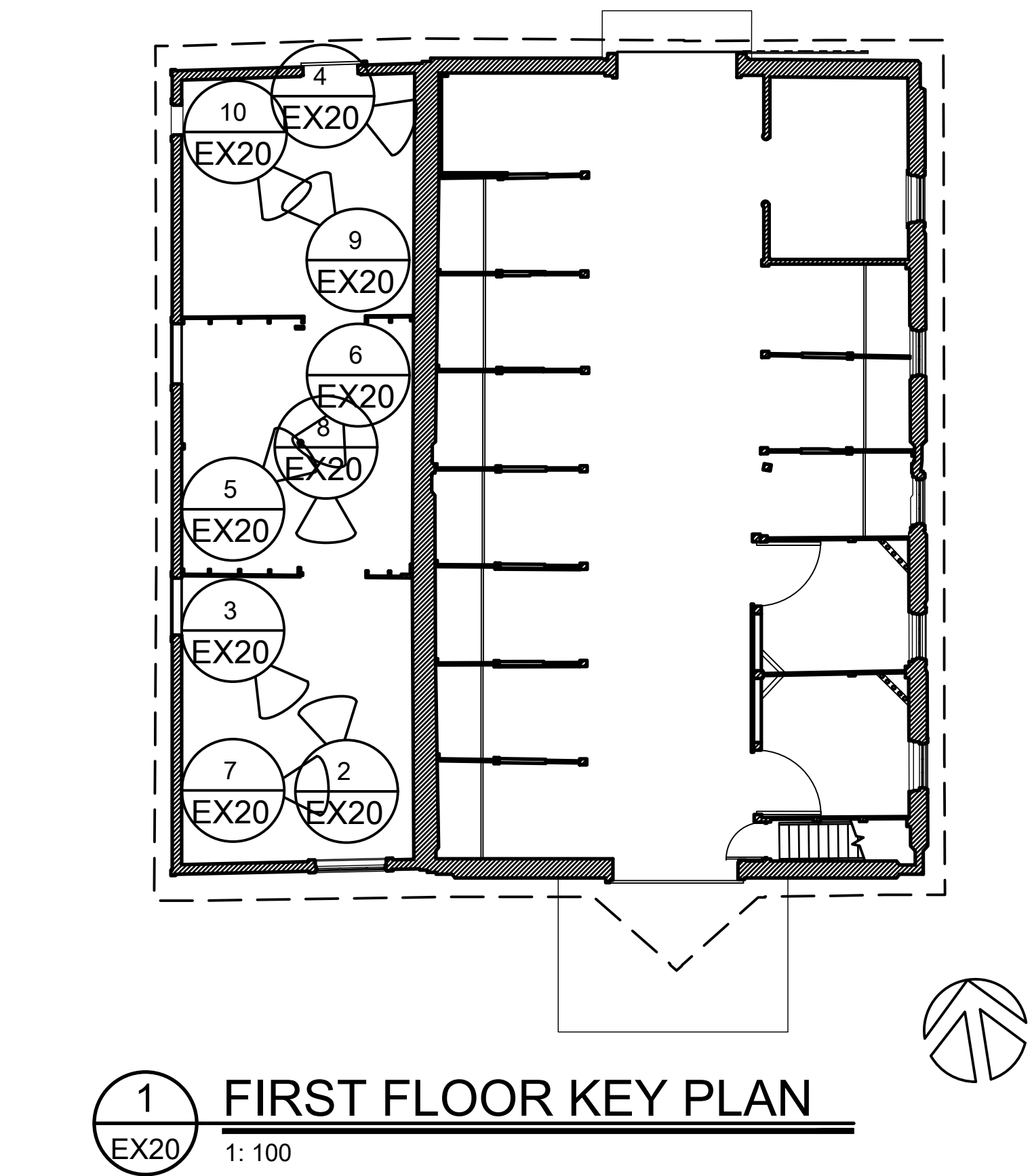
2 LOFT NORTH ELEVATION  
EX19 1 : 25



3 INTERIOR OF NORTH WALL  
EX19

NOTE: REFER TO EX25-30 FOR  
VARIOUS STRUCTURE DETAILS





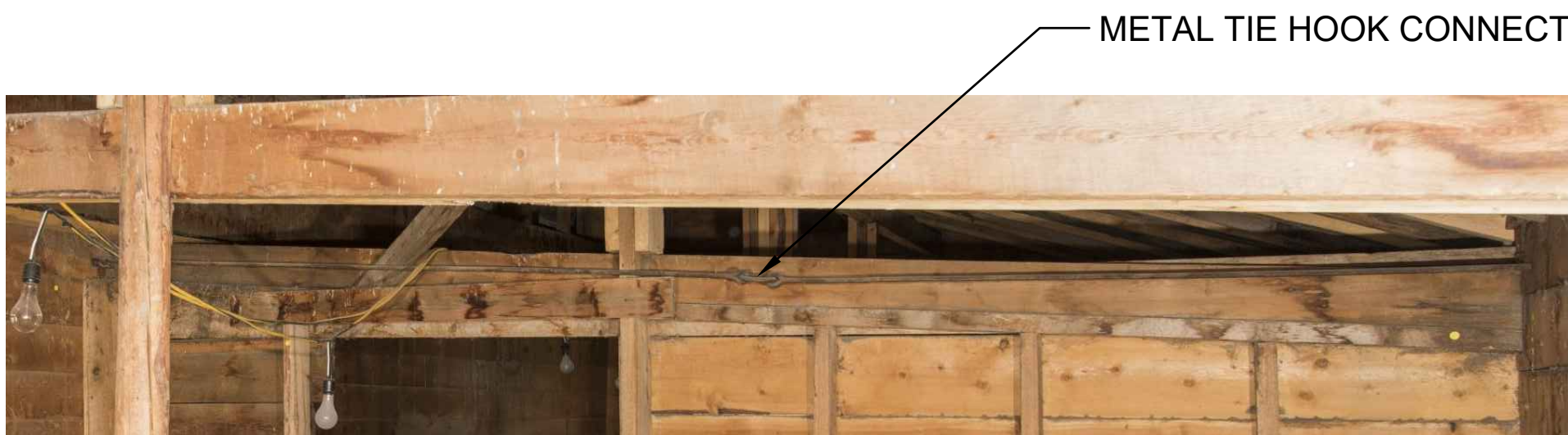
1 FIRST FLOOR KEY PLAN  
EX20 1: 100



4 WEST ADDITION FLOOR OPENING  
EX20



7 WEST ADDITION FASTENERS  
EX20



8 TIE HOOK CONNECTING WEST  
ADDITON AND MAIN BARN  
EX20



2 WEST ADDITION LOOKING NORTH  
EX20



5 WEST ADDITION LOOKING NORTH EAST  
EX20



9 WEST ADDITION LOOKING NORTH WEST  
EX20



3 WEST ADDITION LOOKING SOUTH  
EX20



6 WEST ADDITION LOOKING SOUTH EAST  
EX20



10 WEST ADDITION LOOKING SOUTH EAST  
EX20

GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Services de la Conservation du Patrimoine  
Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

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PUBLIC SERVICES AND  
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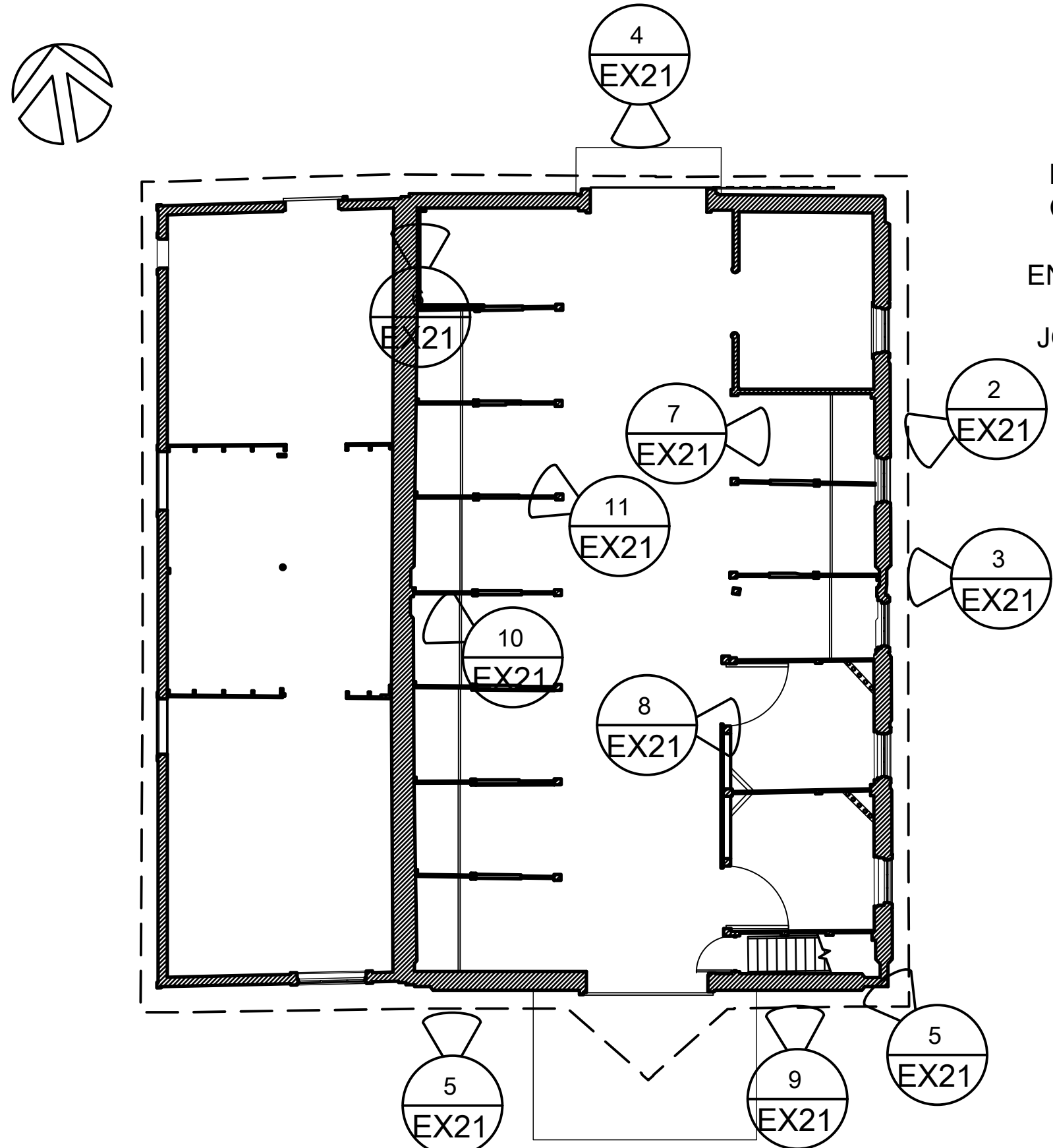
Project  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
A. PIWOWAR  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
Project Manager  
G. SPENCE  
Administrateur de Projets TPSGC

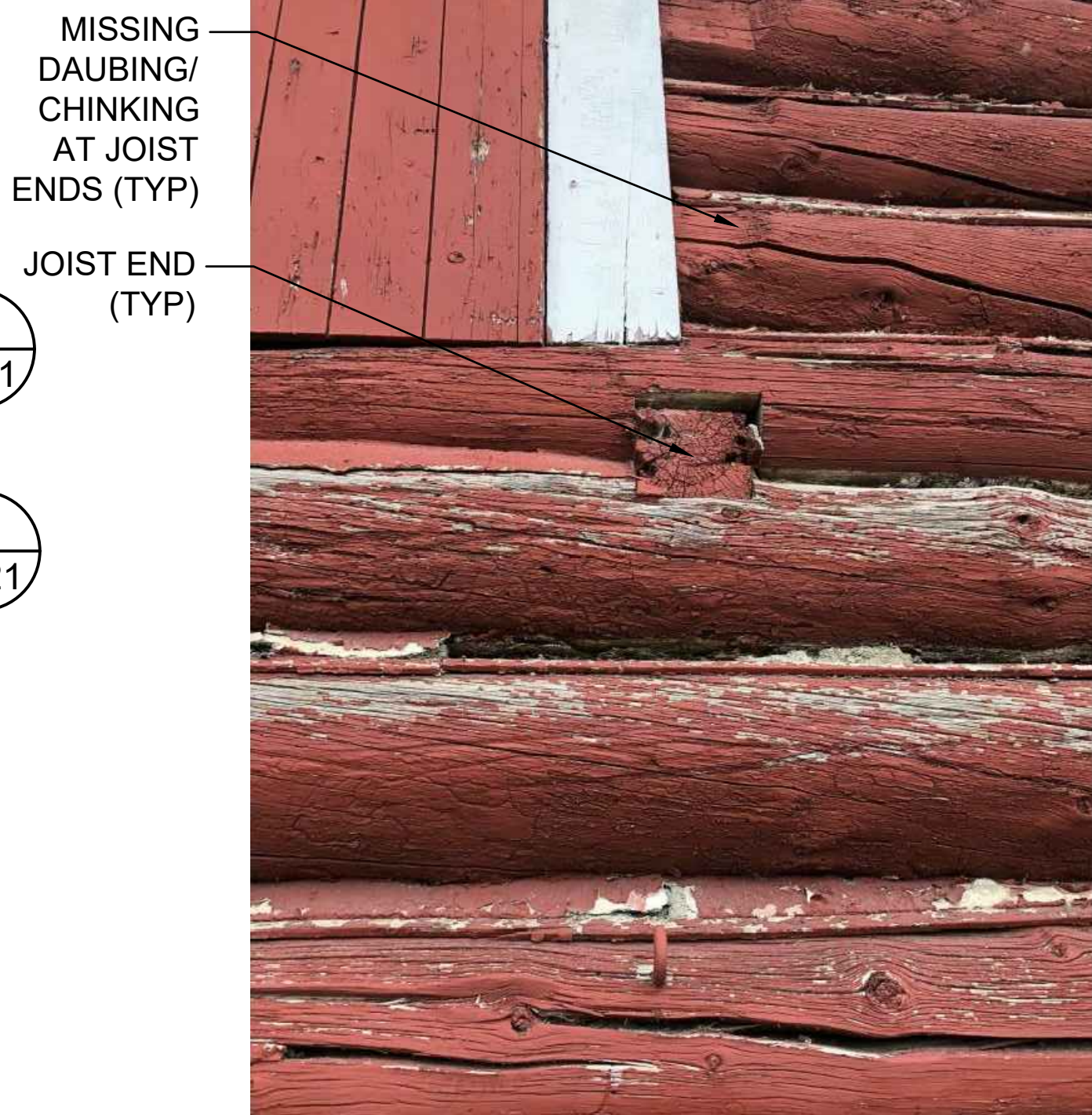
Drawing title  
WEST ADDITION  
INTERIOR PHOTOS

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1 FIRST FLOOR KEY PLAN  
EX21 1: 100



2 JOIST DOVETAIL CONNECTION AT EAST ELEVATION (TYP)  
EX21



3 CONCRETE CURB AT EAST ELEVATION  
EX21



4 SOUTH ELEVATION FOUNDATION  
EX21



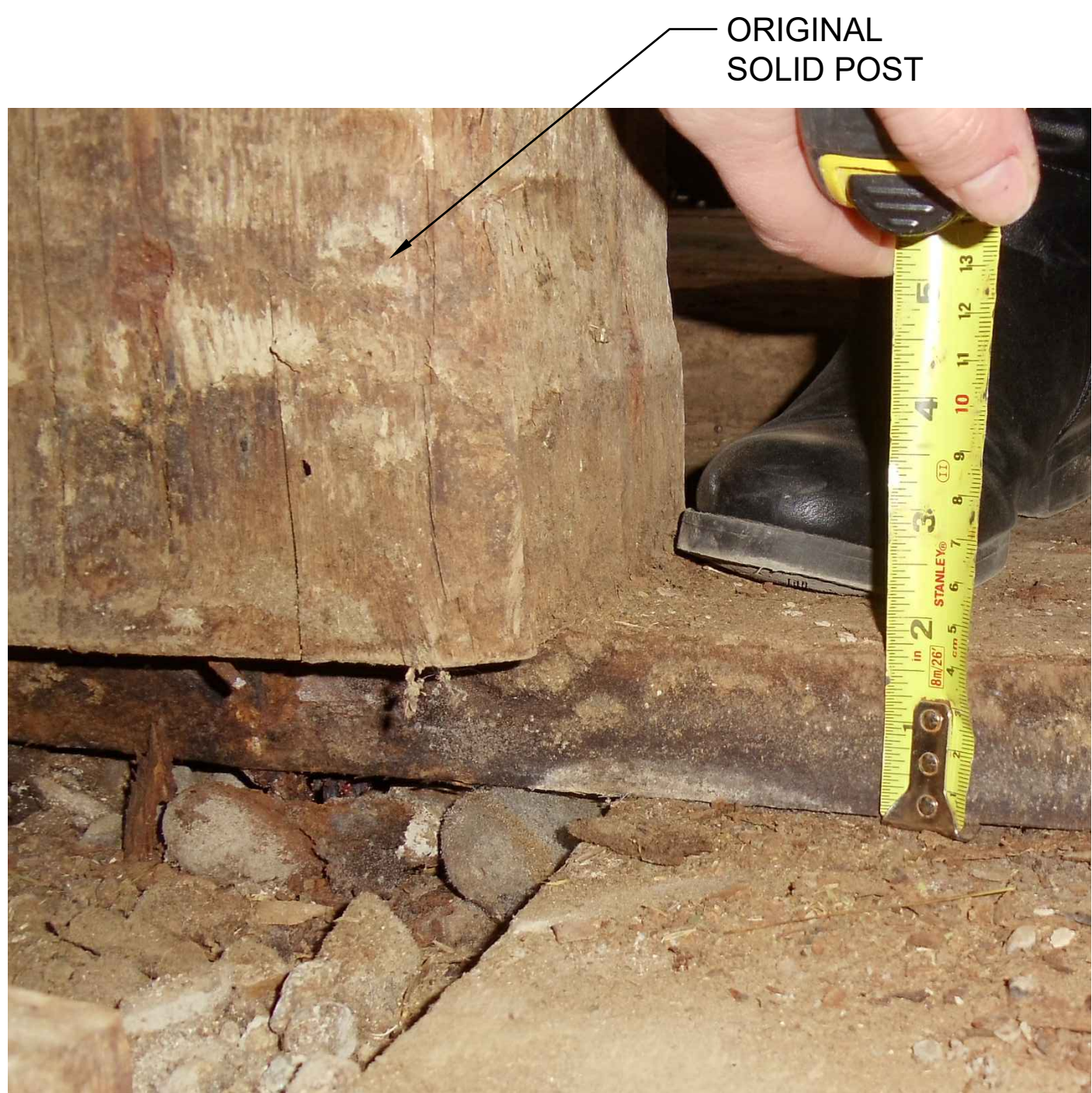
5 DOVETAIL CORNER (S-E)  
EX21



6 JOIST CONNECTION AT WALL (INTERIOR)  
EX21



7 FLOOR OPENING MAIN BARN  
EX21 PHOTO BY AMEC FOSTER WHEELER



8 EXPOSED POST CONNECTION INSIDE ORIGINAL BARN  
EX21



9 SANDSTONE FOUNDATION WITH SOME CONCRETE COVER REMOVED  
EX21



10 TWISTED LOGS ADJACENT TO EAST/WEST ELEVATION POST  
EX21



11 FLOOR OPENING BY BUILT-UP POST MAIN BARN  
EX21

GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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PUBLIC SERVICES AND PROCUREMENT CANADA (PSPC)

LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by: A. PIWOWAR  
Drawn by: HCS  
Checked by: D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager: G. SPENCE  
Administrateur de Projets TPSGC

Drawing title: DETAIL CONDITION PHOTOS



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project

Project

LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by

Checked by

Drawn by

Approved by

A. PIWOWAR

HCS

D. STEPHENSON/ C. BOUFFARD-LIMA

PWSC Project Manager

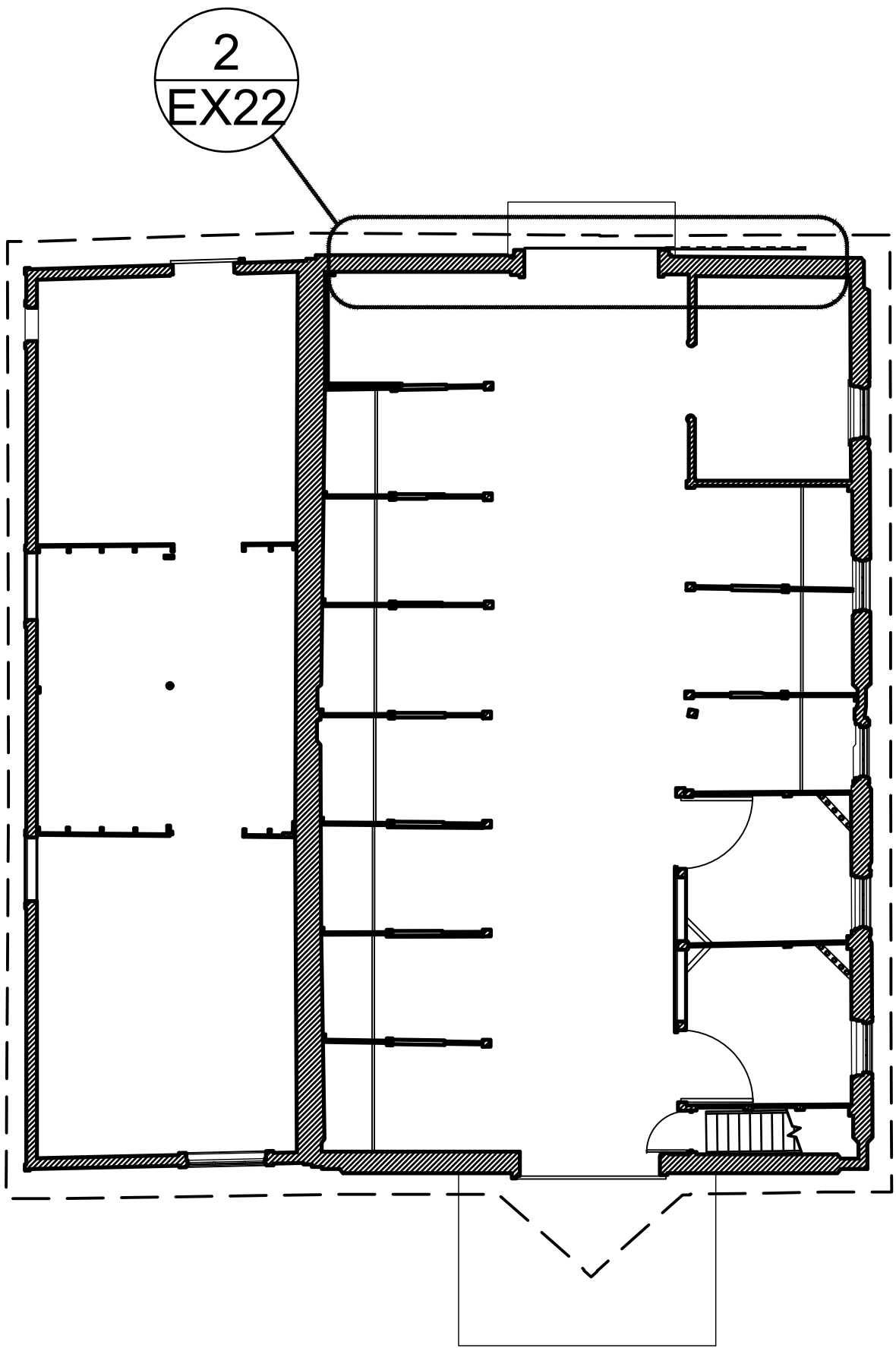
Administrateur de Projets TPSPC

G. SPENCE

Drawing title

Date du dessin

NORTH WALL  
CONDITION PHOTOS

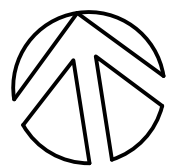


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EX22

FIRST FLOOR KEY PLAN

1 : 100



HAIRLINE CRACKS  
THROUGHOUT  
SURFACE OF FAUX  
LOG PARGING

LEGEND

CRACKS

ALLIGATORING

DECAY

2

EX22

NORTH ELEVATION CONDITION

1 : 40



4

EX22

ALLIGATORING (PAINT)



5

EX22

DETERIORATION



6

EX22

HAIRLINE CRACKING



7

EX22

ALLIGATORING AND STREAKING



PARGING WIDTH  
FROM +/- 30 mm  
TO 70 mm

PARGING  
TACKENED AT  
SQUARED OFF  
LOG END

3

EX22

NORTH WALL FAUX LOG PARGING



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Services Publics et Approvisionnement Canada

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Client		Client

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by A. PIWOWAR  
Drawn by HCS  
Checked by D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager G. SPENCE  
Administrateur de Projets TPSGC

Drawing title NORTH WALL  
CONDITIONS

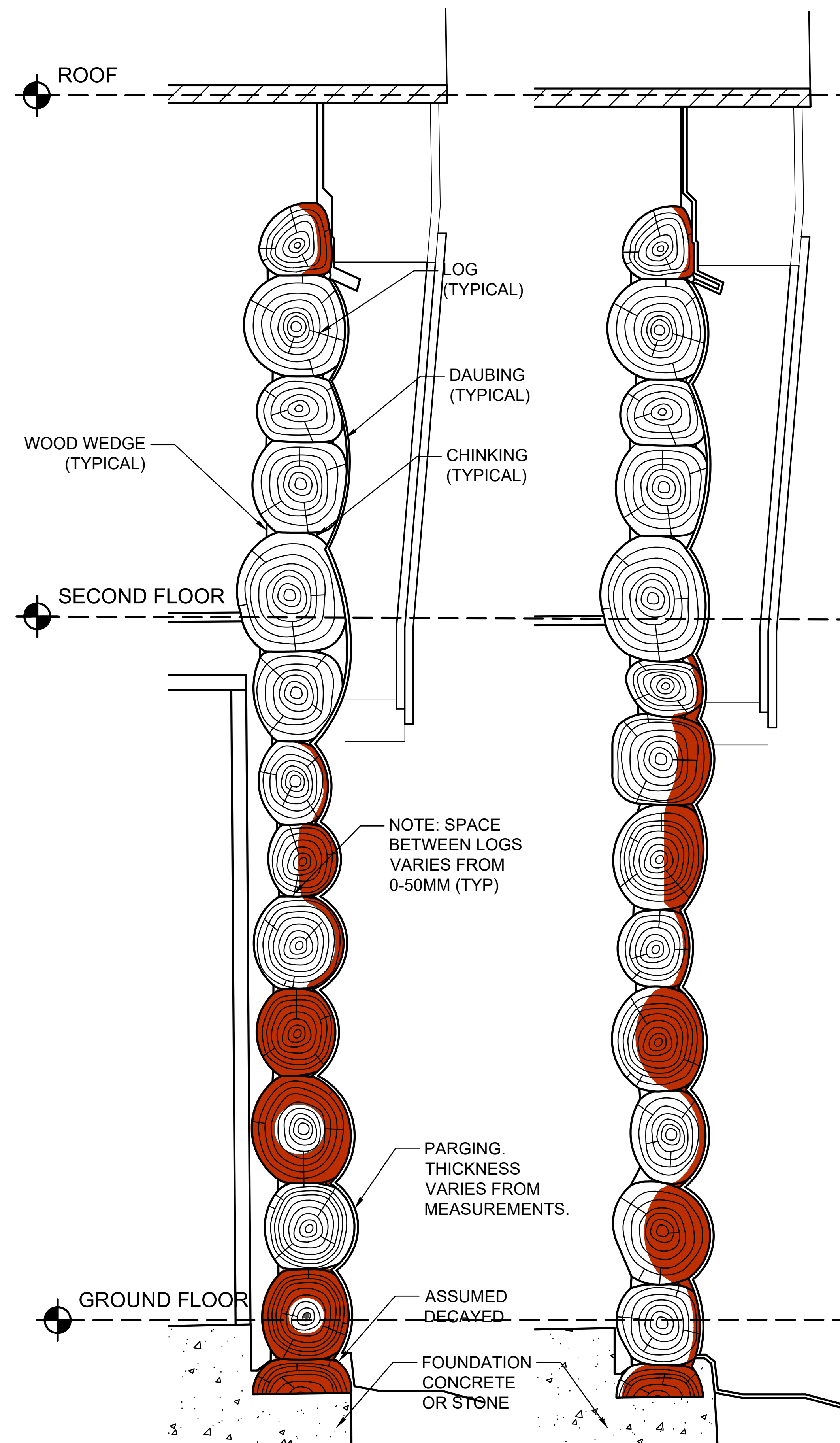
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX23	
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NOTES:

1. COLOUR DESIGNATIONS ARE SHOWN ON FAUX LOG PARGING. ACTUAL DEPICTION OF LOG LOCATIONS SHOWN IN SECTIONS A AND B.
2. LOGS ARE AN ESTIMATED DEPICTION OF EXISTING NORTH WALL LOGS. SECTIONS INDICATE ASSUMED CONSTRUCTION OF NORTH WALL BEHIND PARGING.

LEGEND  
DEPTH OF WOOD LOG DECAY  
(AS ESTIMATED FROM RESISTANCE  
DRILLING FROM INTERIOR)

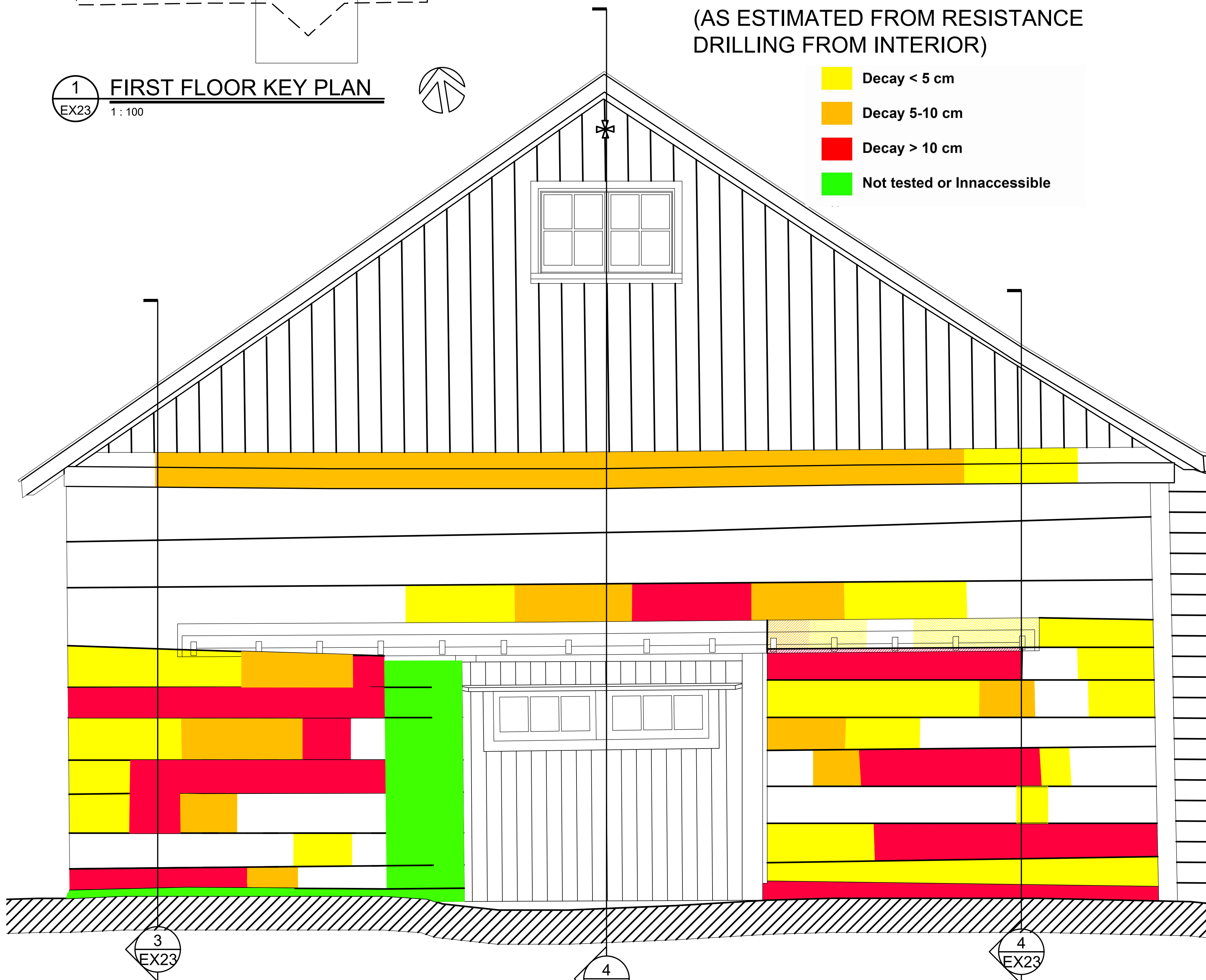
- Decay < 5 cm
- Decay 5-10 cm
- Decay > 10 cm
- Not tested or Inaccessible



3 SECTION A  
EX23 1:10

4 SECTION B  
EX23 1:10

1 FIRST FLOOR KEY PLAN  
EX23 1:100



2 NORTH ELEVATION DEPTH OF LOG DECAY  
EX23 1:20



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Real Property Branch  
Public Services and Procurement Canada

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Services d'Architecture et de Génie  
Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

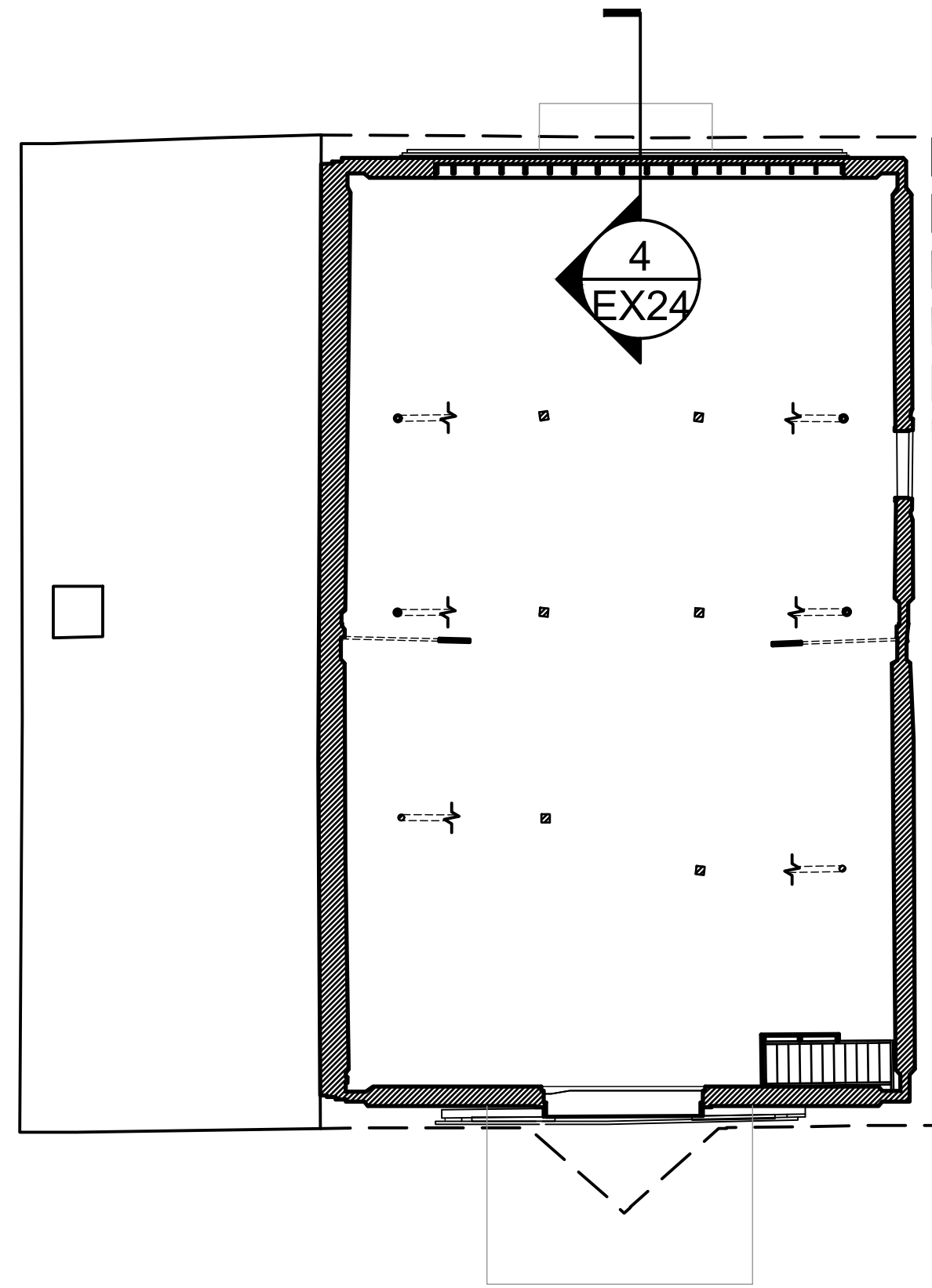
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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

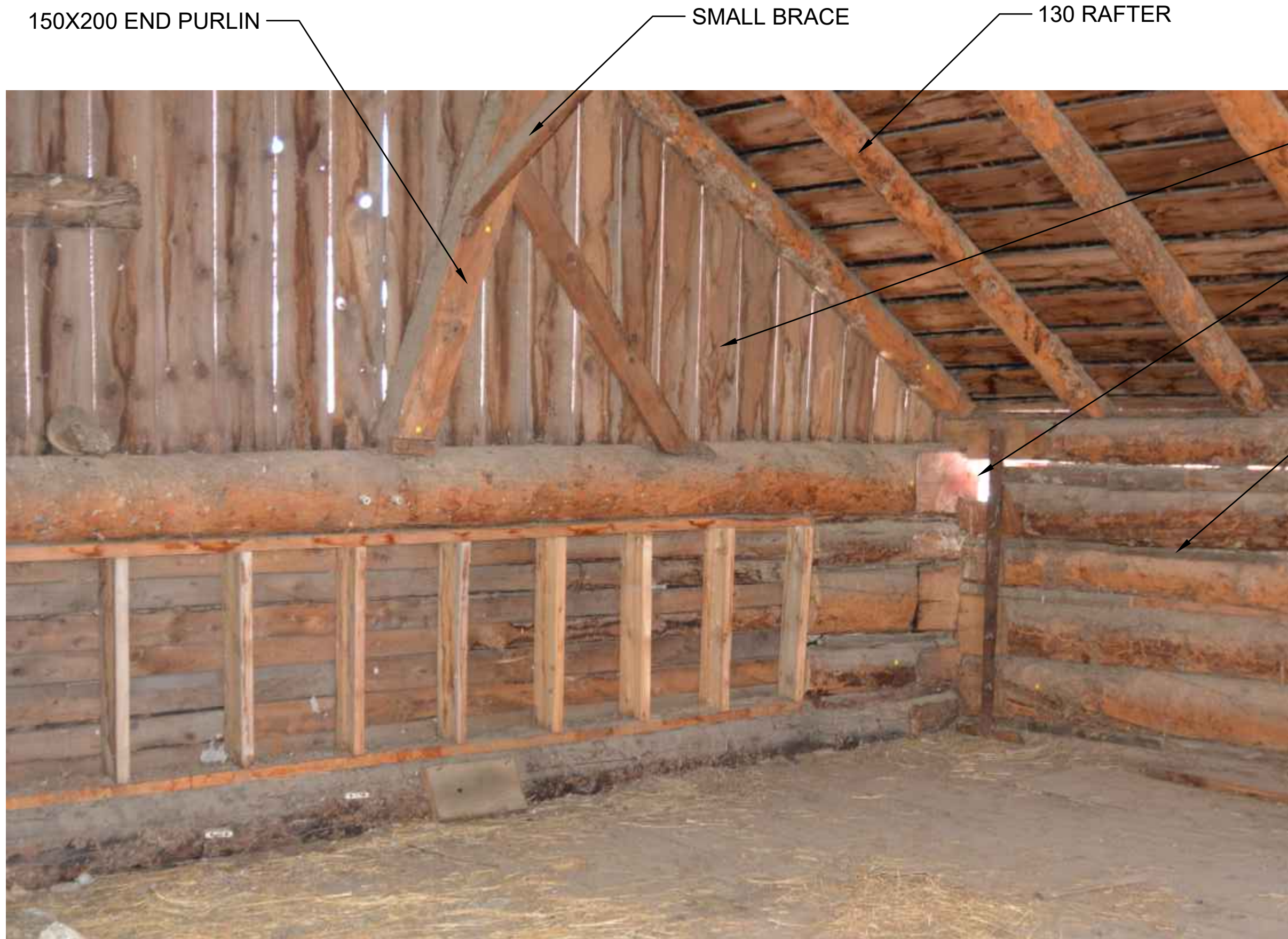
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
A. PIWOWAR  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager  
G. SPENCE  
Drawing title  
NORTH WALL  
DETAILS

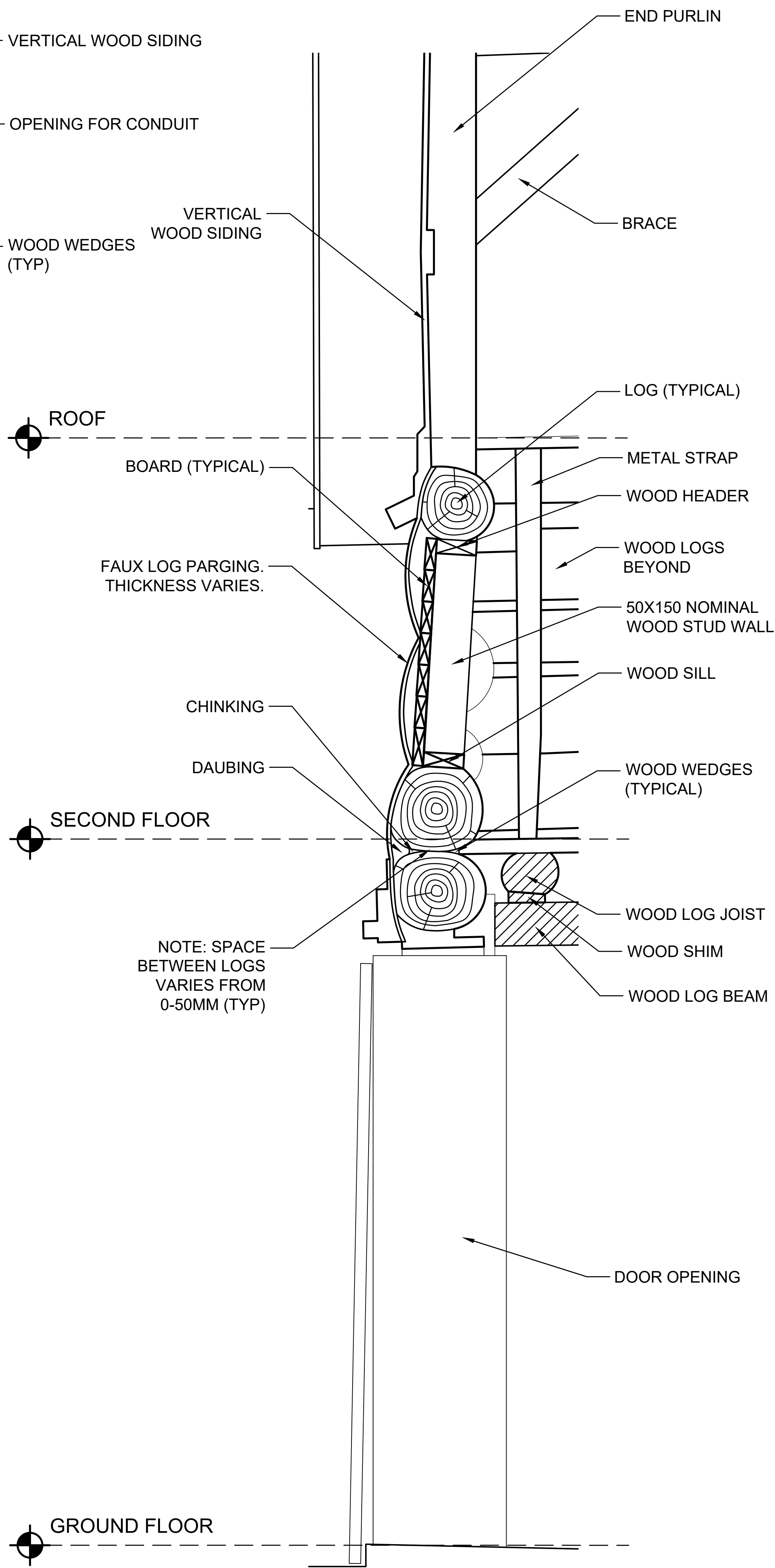
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX24 OF 33	



1 FIRST FLOOR KEY PLAN  
EX24 1 : 100



2 INTERIOR STUD WALL NORTH EAST CORNER  
EX24



4 SECTION THROUGH NORTH WALL  
EX24 1 : 10



3 NORTH ELEVATION INTERIOR STUD WALL  
EX24





1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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NOTE: STRUCTURAL ASSEMBLY  
DRAWINGS ADAPTED FROM 1996  
HERITAGE RECORDING PACKAGE  
ALL DIMENSIONS +/-

Client	client
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**PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)**

Project	Project
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**LONGVIEW, ALBERTA**

2018-2019

## BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION

Designed by	Conçu par
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HCS

Drawn by	Dessiné par
----------	-------------

HCS

Approved by \_\_\_\_\_ Approuvé par \_\_\_\_\_  
**D. STEPHENSON & BOUTEARD L.M.**

D. STEPHENSON/ C. B

PWGSC Project Manager      Administrateur de Projets TPSGC  
C. SPENCE

G. SPENCE

Drawing title	Titre du dessin
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## STRUCTURAL DETAILS

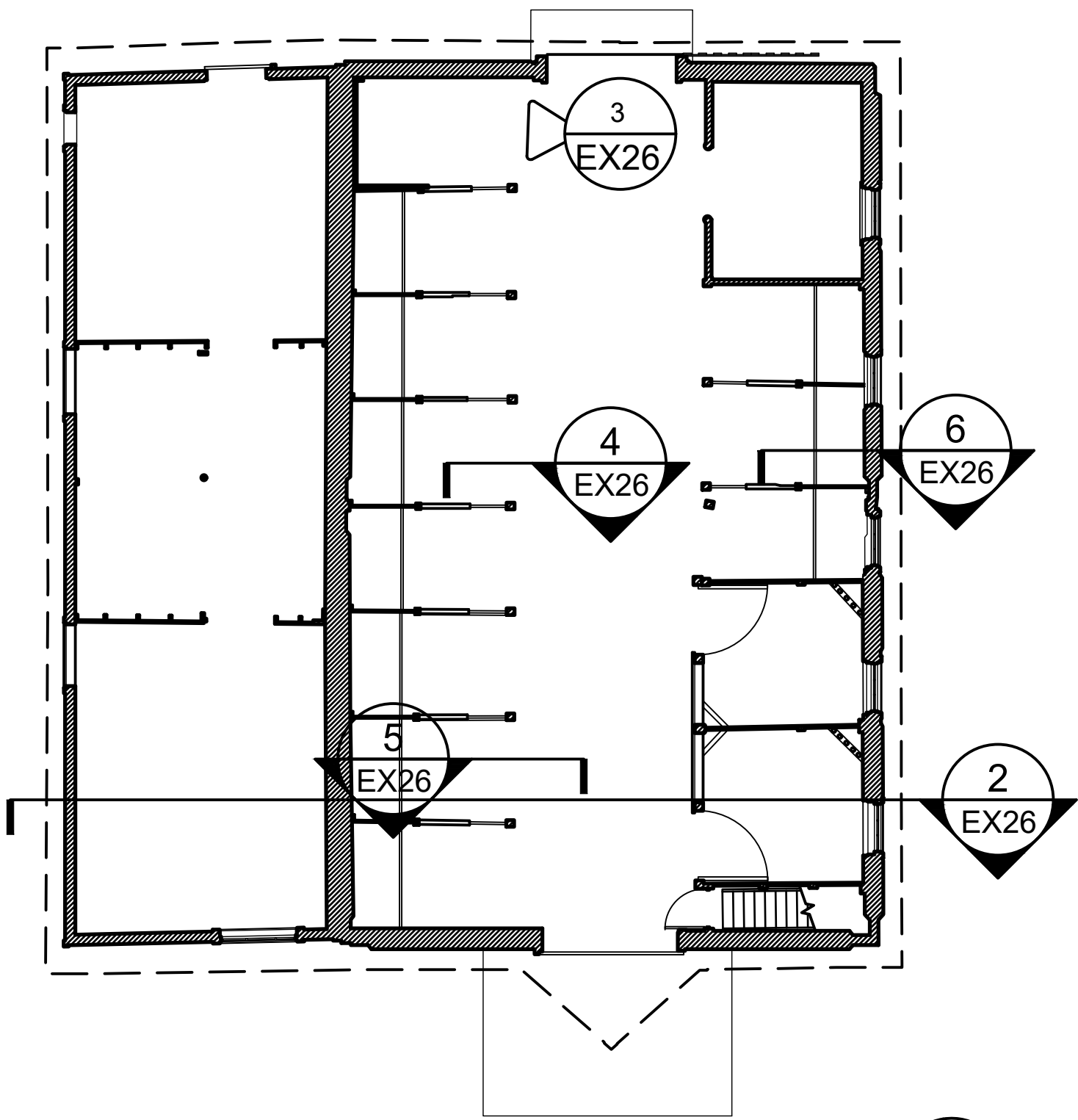
### MAIN BARN

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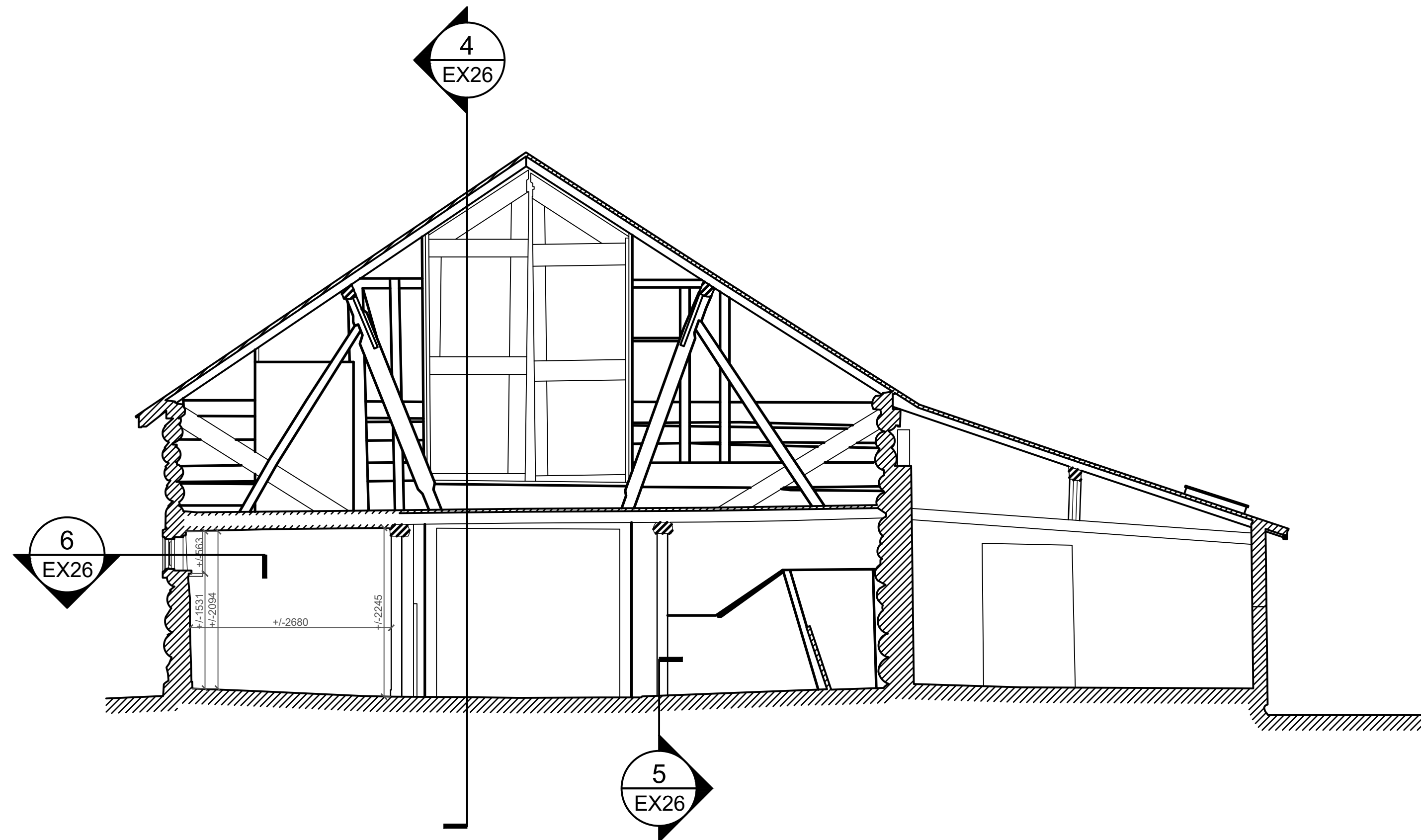
R.083678.001

**EX25**  
OF 33





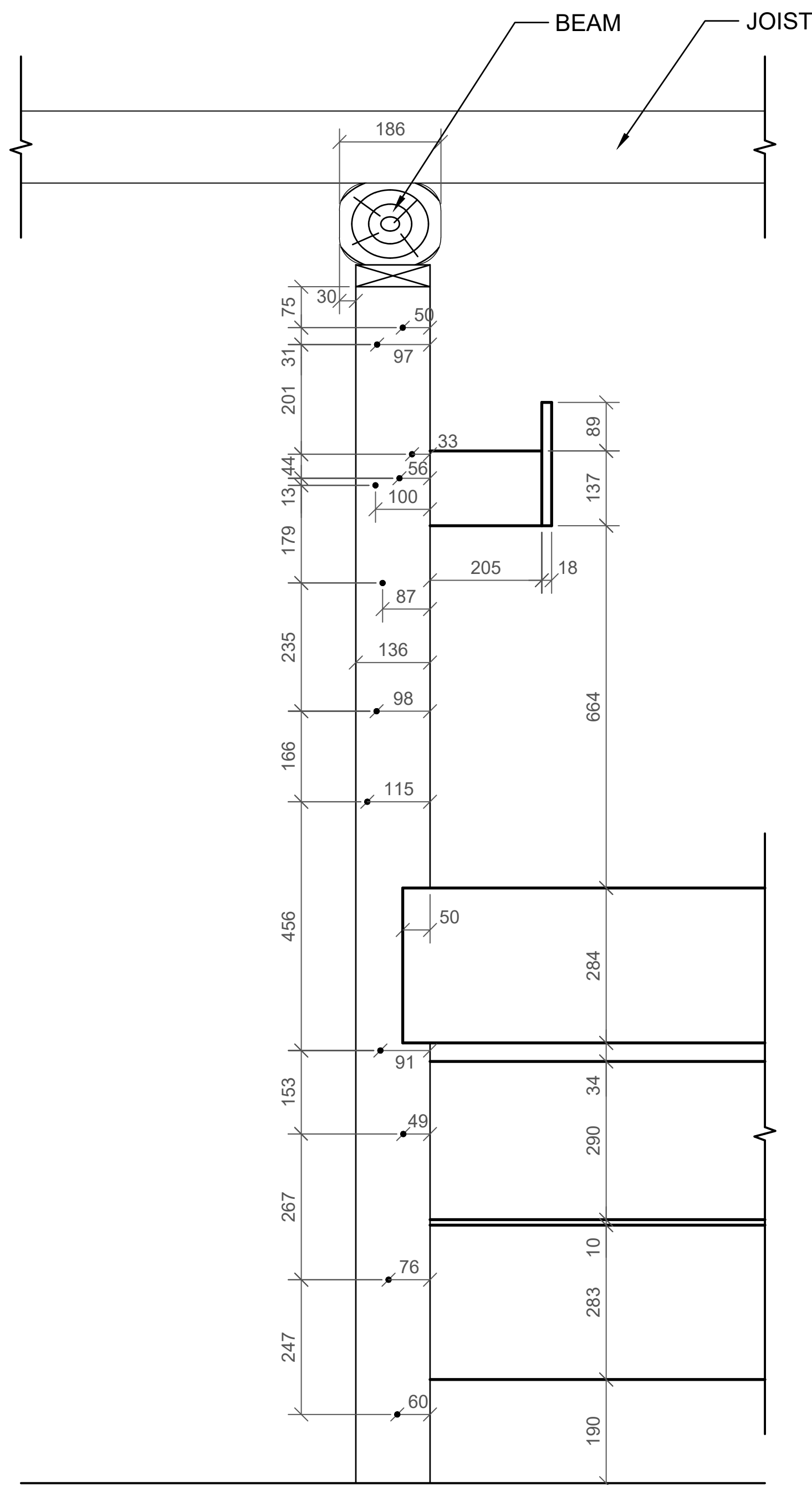
1 FIRST FLOOR KEY PLAN  
EX26 1 : 100



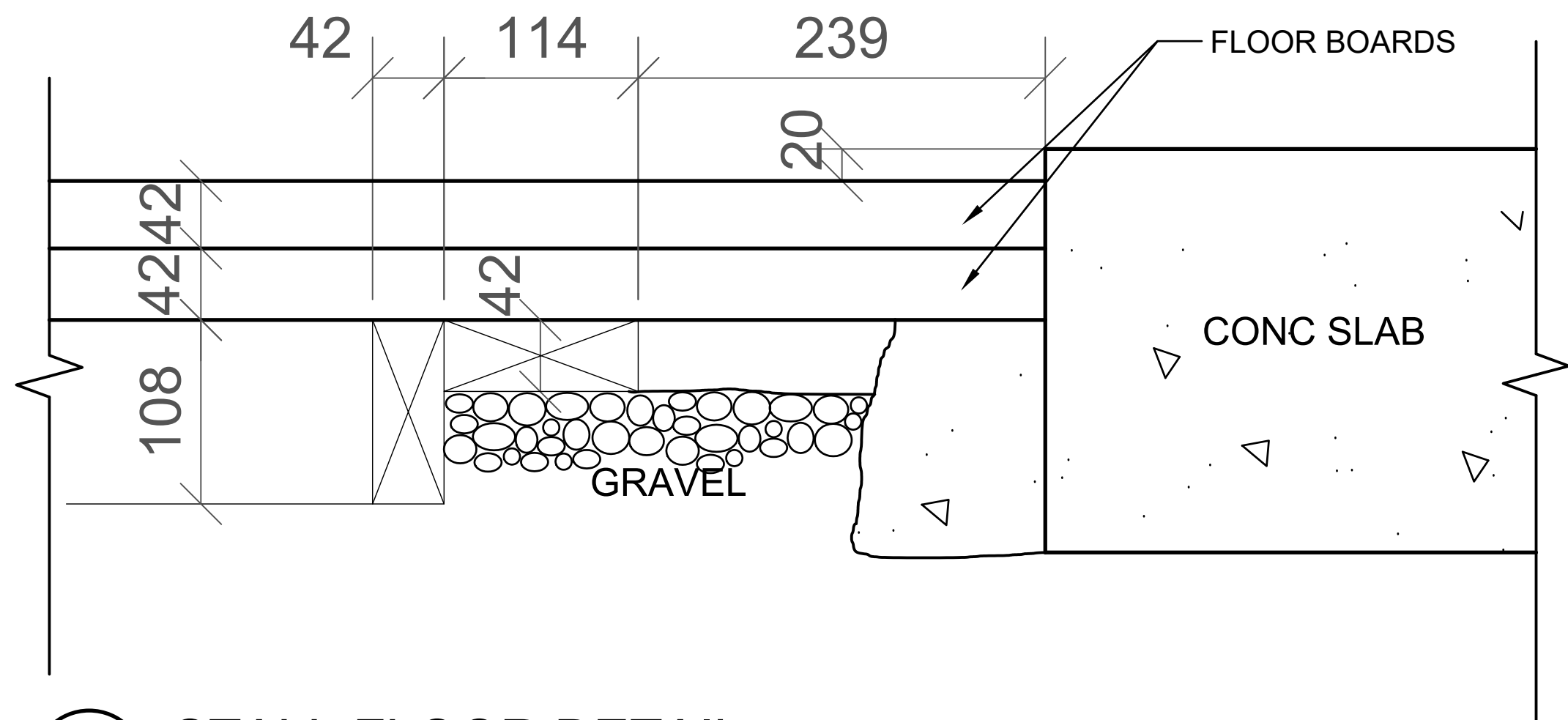
2 E-W SECTION LOOKING SOUTH  
EX26 1 : 50



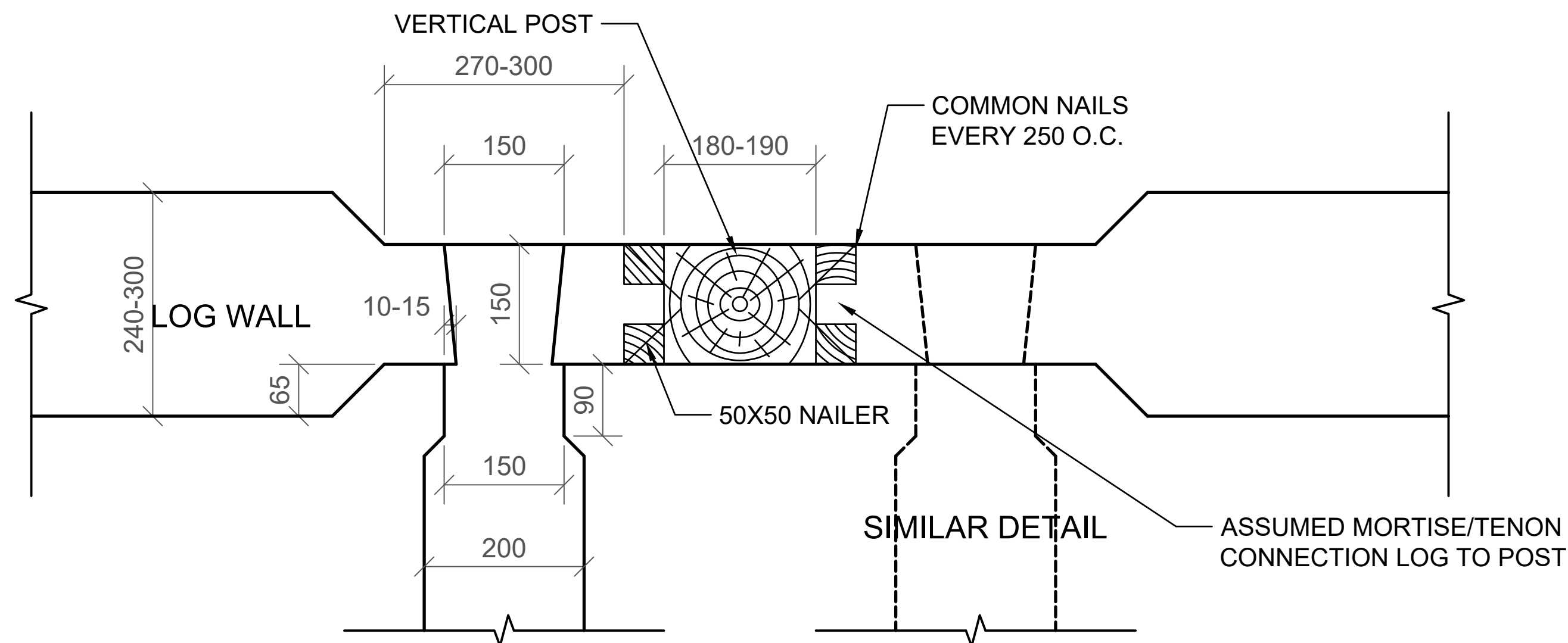
3 STALL FLOOR SUPPORT  
EX26



4 COLUMN DETAIL  
EX26 NTS



5 STALL FLOOR DETAIL  
EX26 NTS



6 JOIST-EXT. WALL DETAIL  
EX26 NTS

NOTE: STRUCTURAL ASSEMBLY  
DRAWINGS ADAPTED FROM 1996  
HERITAGE RECORDING PACKAGE

GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Client		Client
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PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project		Project
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LONGVIEW, ALBERTA

2018-2019

BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by		Conçu par
-------------	--	-----------

HCS

Drawn by		Dessiné par
----------	--	-------------

HCS

Checked by		Approuvé par
------------	--	--------------

D. STEPHENSON/ C. BOUFFARD-LIMA

Project Manager		Administrateur de Projets (TPSPC)
-----------------	--	-----------------------------------

G. SPENCE

Drawing title		Titre du dessin
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STRUCTURAL DETAILS  
MAIN BARN

Project no./No. du projet		Drawing no./No. du dessin		Revision no.
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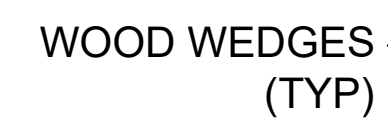
R.083678.001

EX26

OF 33



1. THE WORKHOUSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
2. THIS EX DRAWING SET IS ISSUED FOR REFERENCE INFORMATION ON EXISTING STRUCTURE AND CONDITIONS.



1 : 50



EX27 NTS



Revision	Drawings	Date
Client		client

Project	Pro
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**BARIL RANCH N.H.S.C**

Designed by	Conqu
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Drawn by  Dessiné par 

D. STEPHENSON/ C. BOUFFARD-LIMA

G. SPENCE

## STRUCTURAL DETAILS

THAT LOT 1

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
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Project No./No. du projet	Drawing No./No. du dessin	Revision No.
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R.083678.001	EX27
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	OF 33	
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GENERAL NOTES (EX SET):

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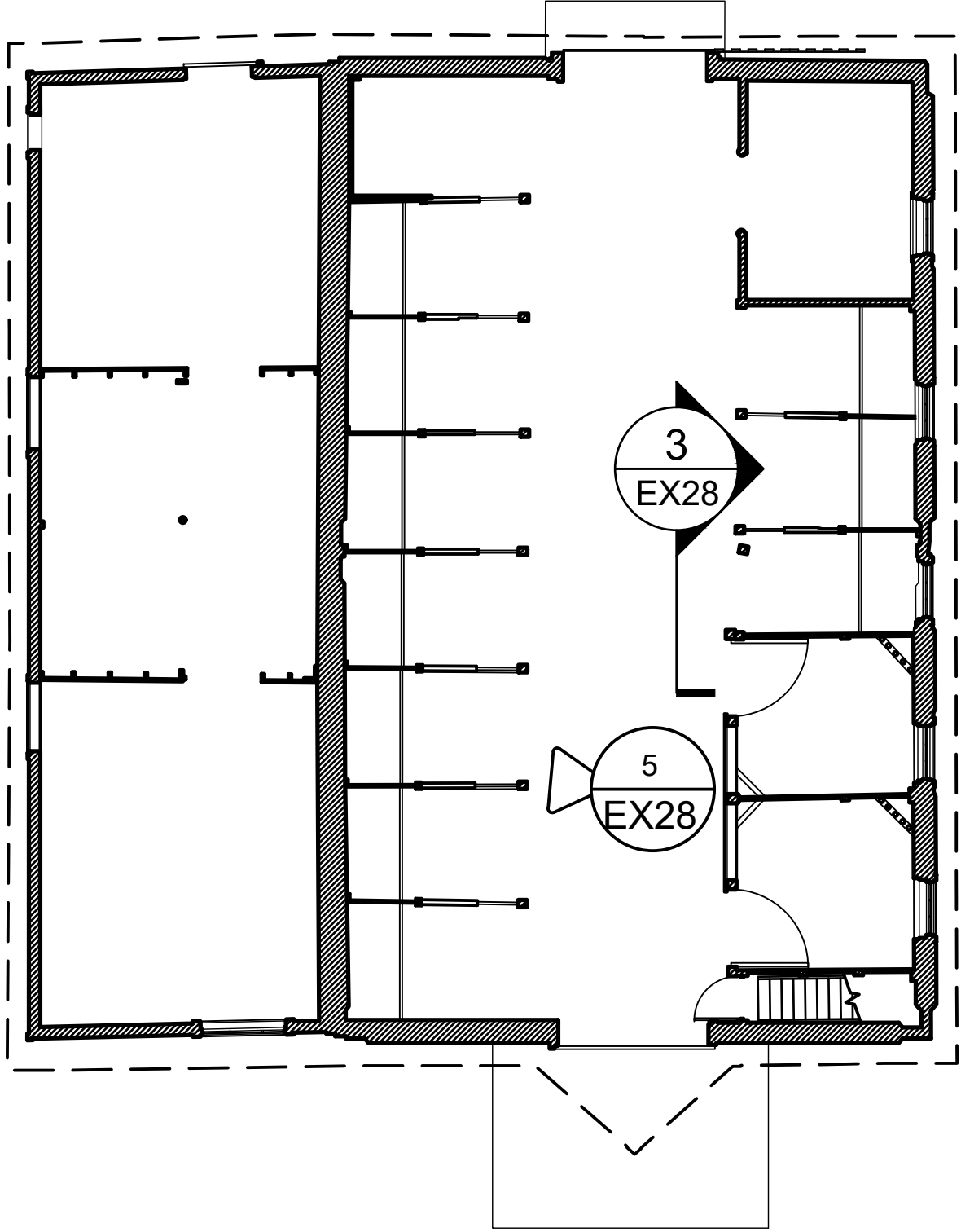
PUBLIC SERVICES AND  
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(PSPC)

ProjectLONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

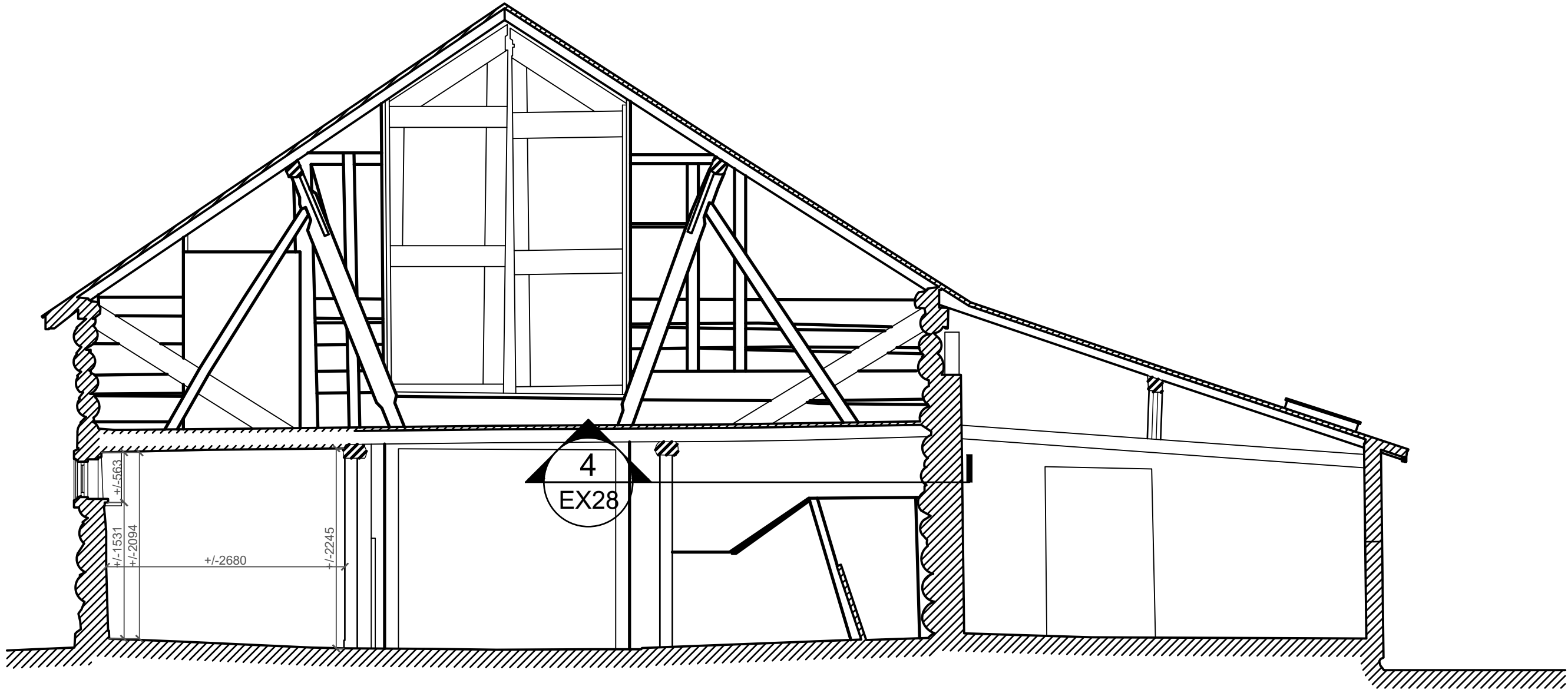
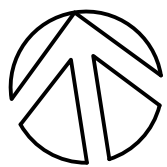
Designed byHCS  
Drawn byHCS  
Checked byD. STEPHENSON/ C. BOUFFARD-LIMA  
Reviewed byG. SPENCE  
PWOSC Project ManagerAdministrateur de Projets TPSOC

Drawing titleSTRUCTURAL DETAILS  
HAY LOFT

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX28	OF 33



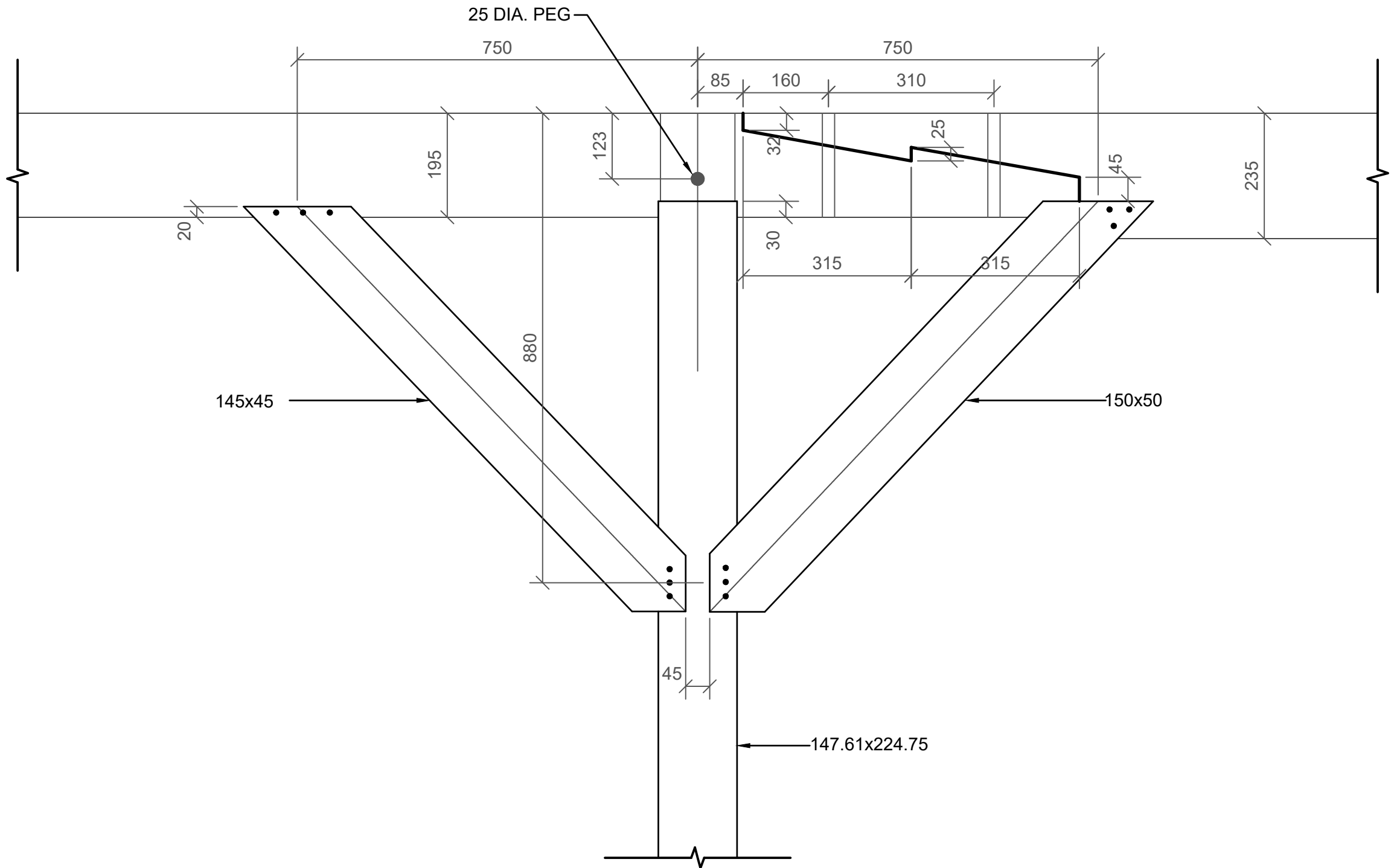
1 FIRST FLOOR KEY PLAN  
EX28 1 : 100



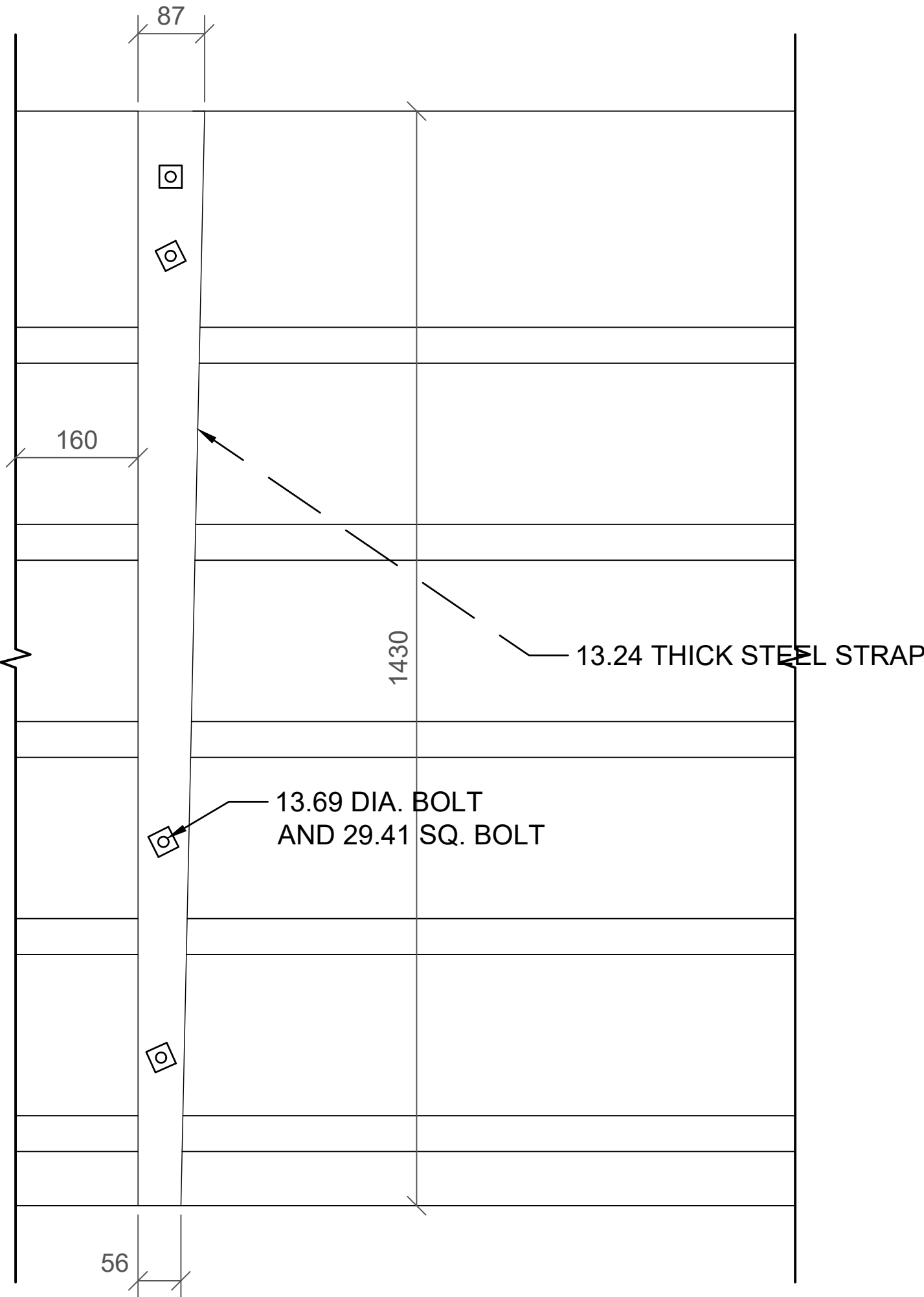
2 E-W SECTION LOOKING SOUTH  
EX28 1 : 50



5 SMALL BRACE  
EX28



3 BRACE DETAIL  
EX28 NTS



4 STRAP DETAIL  
EX28 NTS

NOTE: STRUCTURAL DETAIL  
DRAWINGS ADAPTED FROM 1996  
HERITAGE RECORDING PACKAGE



GENERAL NOTES (EX SET):

- THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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Division	Administration	Date
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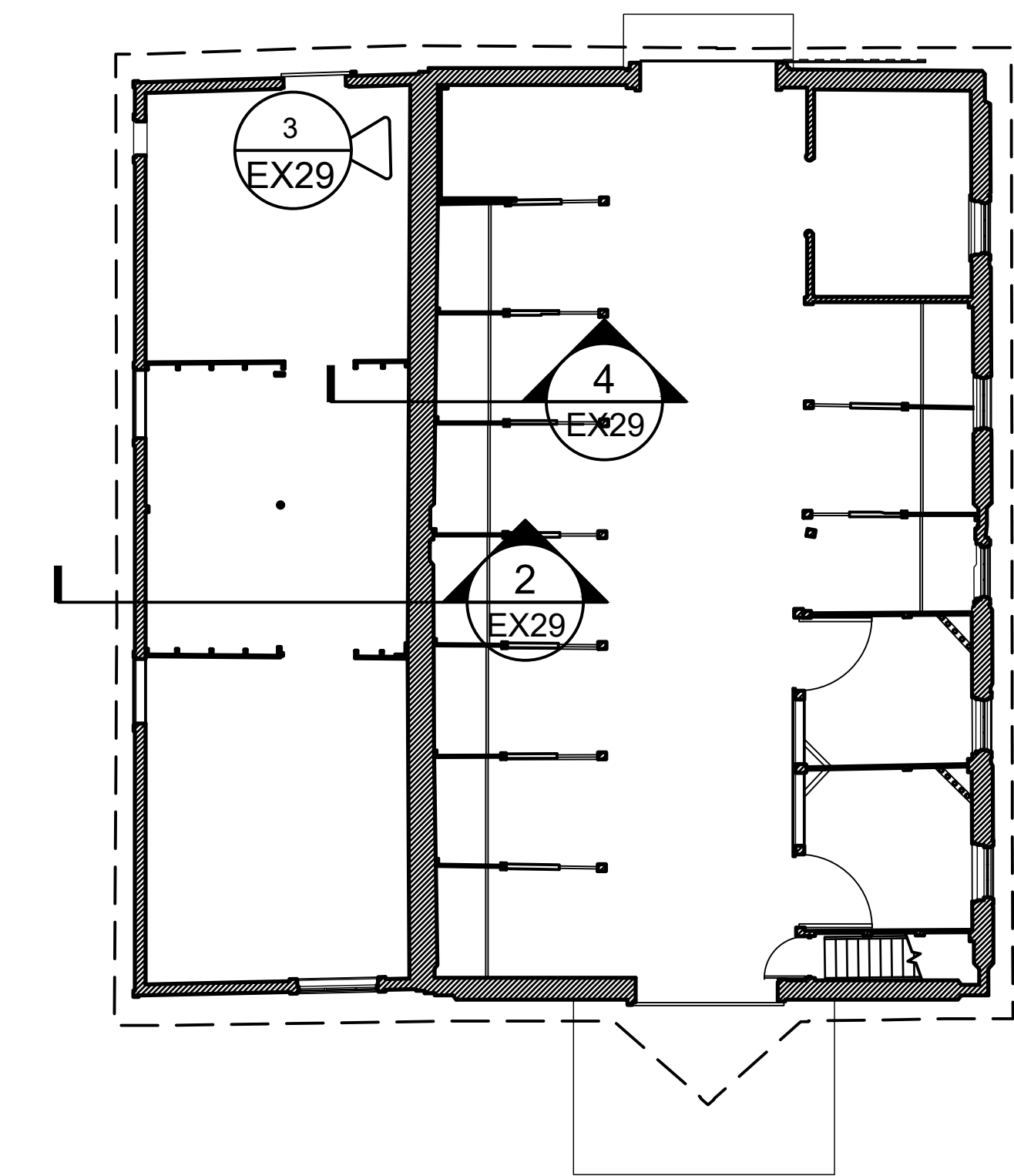
PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project	Longview, Alberta	Project
2018-2019		
BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION		

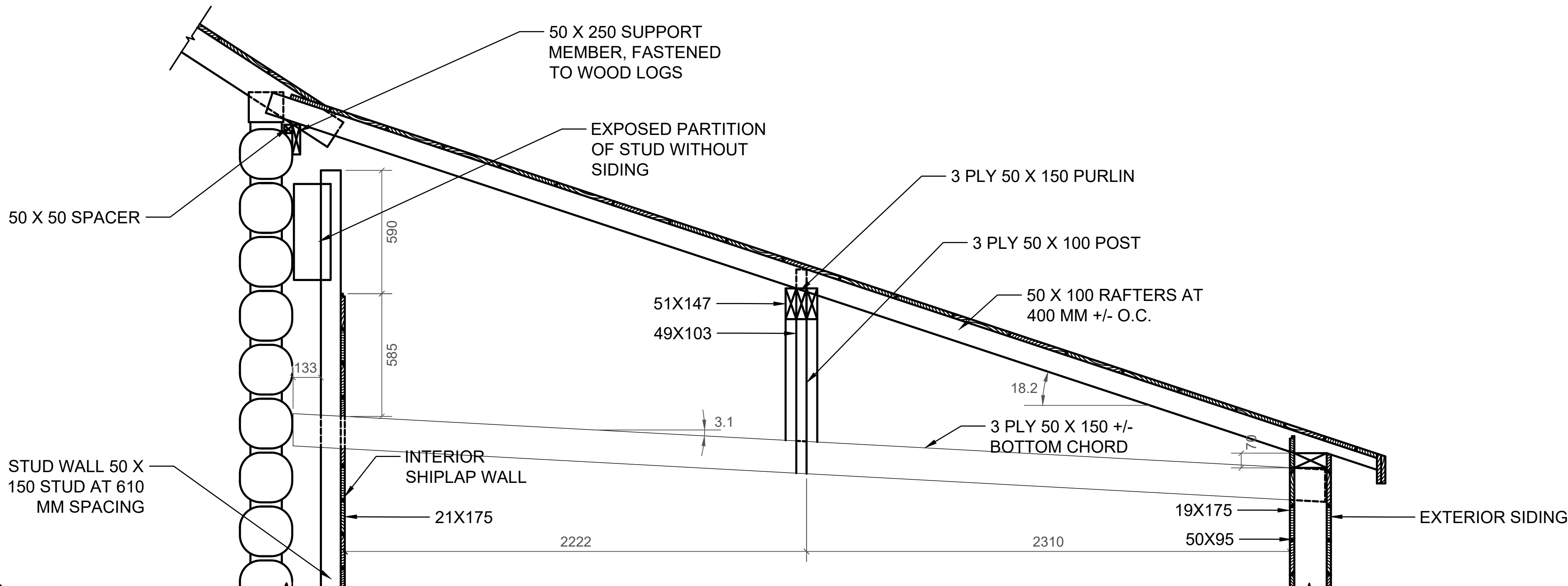
Designed by	Checked by
HCS	
Drawn by	Revised by
HCS	
Scale	Approved by
D. STEPHENSON/ C. BOUFFARD-LIMA	
PWGSC Project Manager	Administrateur de Projets TPSGC
G. SPENCE	

STRUCTURAL SCHEMATIC  
DETAILS  
WEST ADDITION

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX29 OF 33	



1 FIRST FLOOR KEY PLAN  
EX29 1 : 100

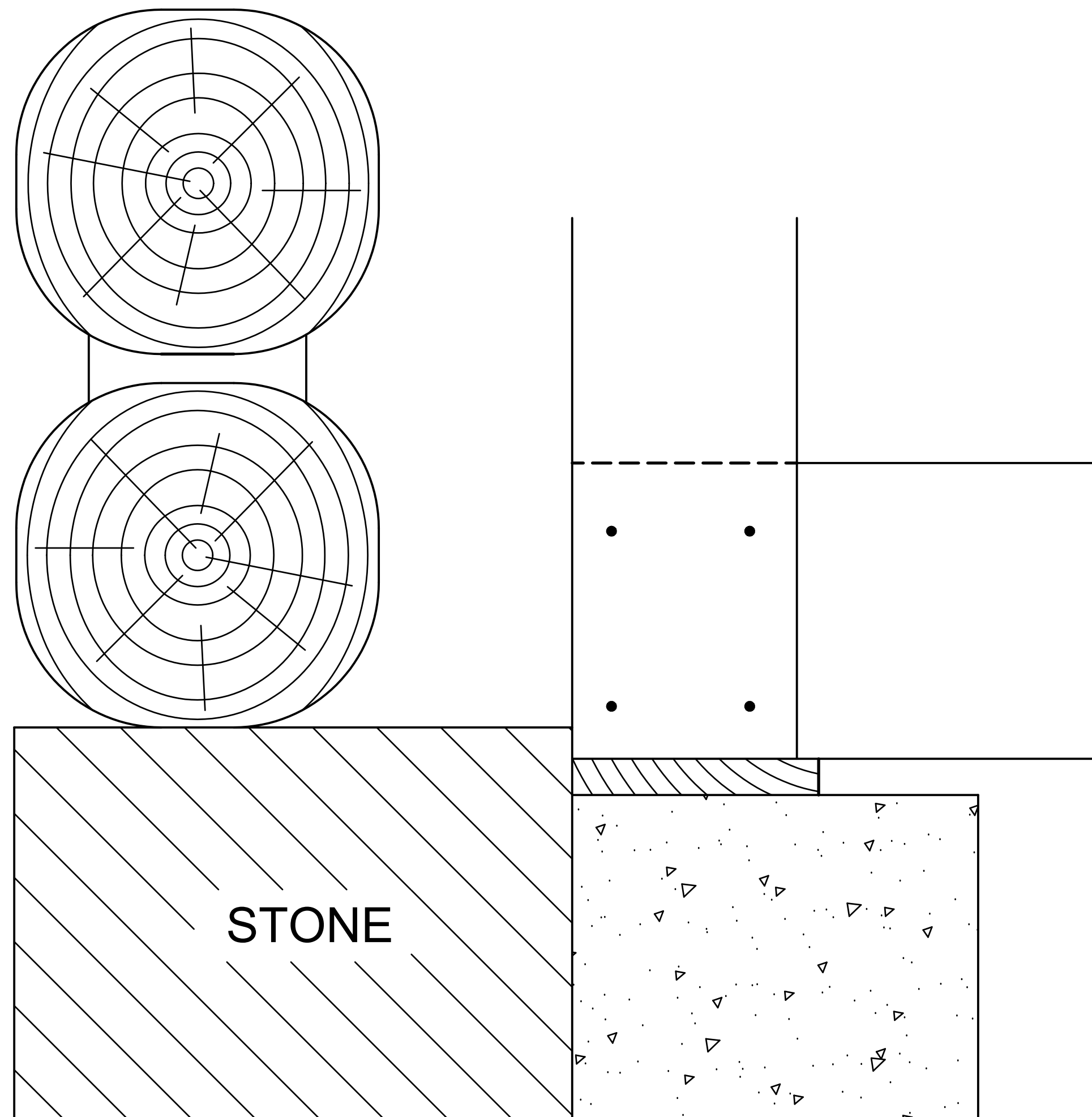


2 COLLAR TIE IN ADDITION  
EX29 NTS



3 WEST ADDITION FLOOR (EAST SIDE OF WEST ADDITION)  
EX29

NOTE: STRUCTURAL ASSEMBLY  
DRAWINGS ADAPTED FROM 1996  
HERITAGE RECORDING PACKAGE



4 FOUNDATION DETAIL  
EX29 NTS



GENERAL NOTES (EX SET):

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Real Property Branch  
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Services Publics et Approvisionnement Canada

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Client		Client

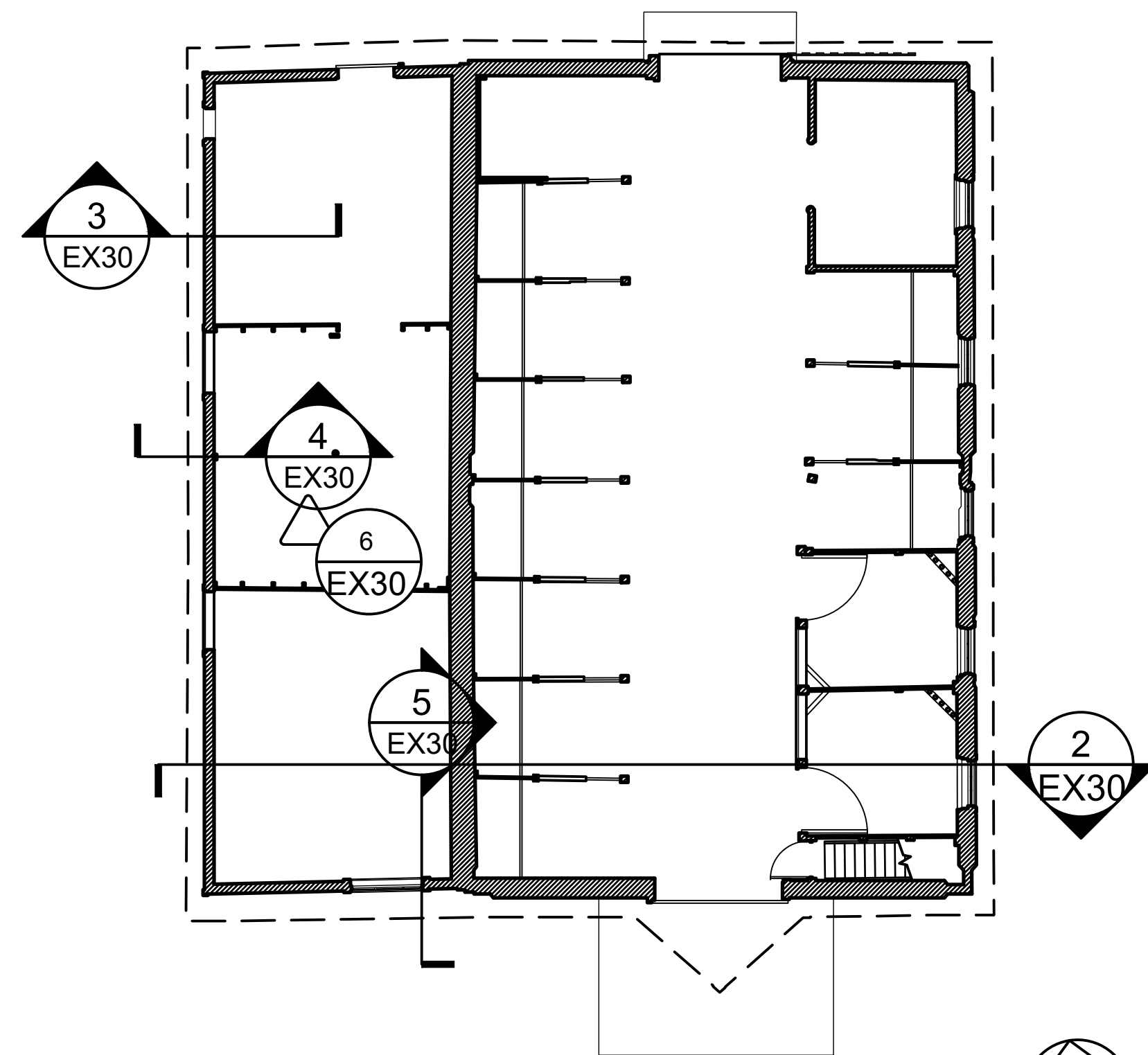
PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project  
**LONGVIEW, ALBERTA**  
2018-2019  
**BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION**

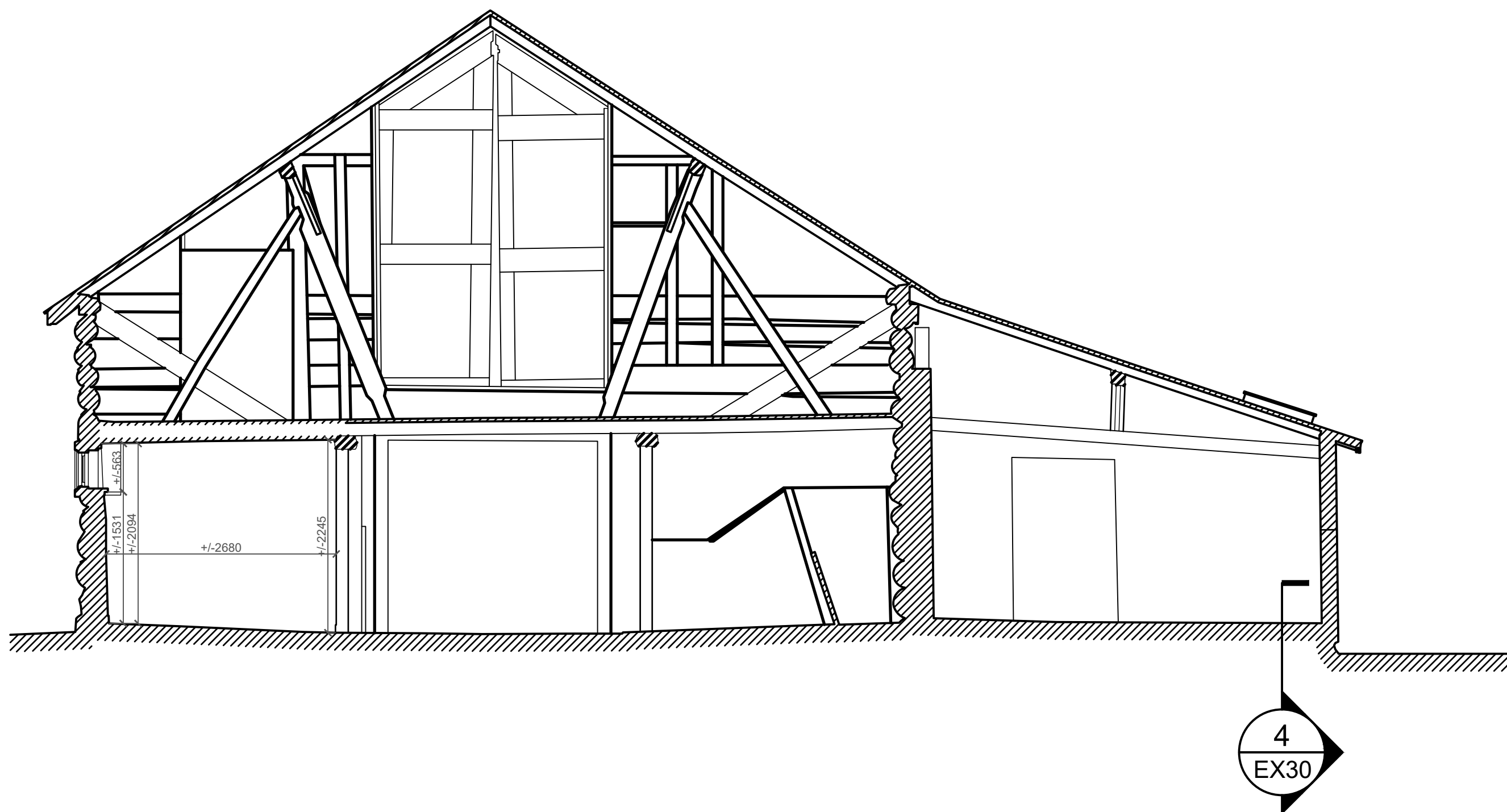
Designed by  
**HCS**  
Drawn by  
**HCS**  
Checked by  
**D. STEPHENSON/ C. BOUFFARD-LIMA**  
PWGSC Project Manager  
**G. SPENCE**  
Approved by  
**G. SPENCE**  
PWGSC Project Manager  
Administrateur de Projets TPSGC

Drawing title  
**STRUCTURAL DETAILS  
WEST ADDITION**

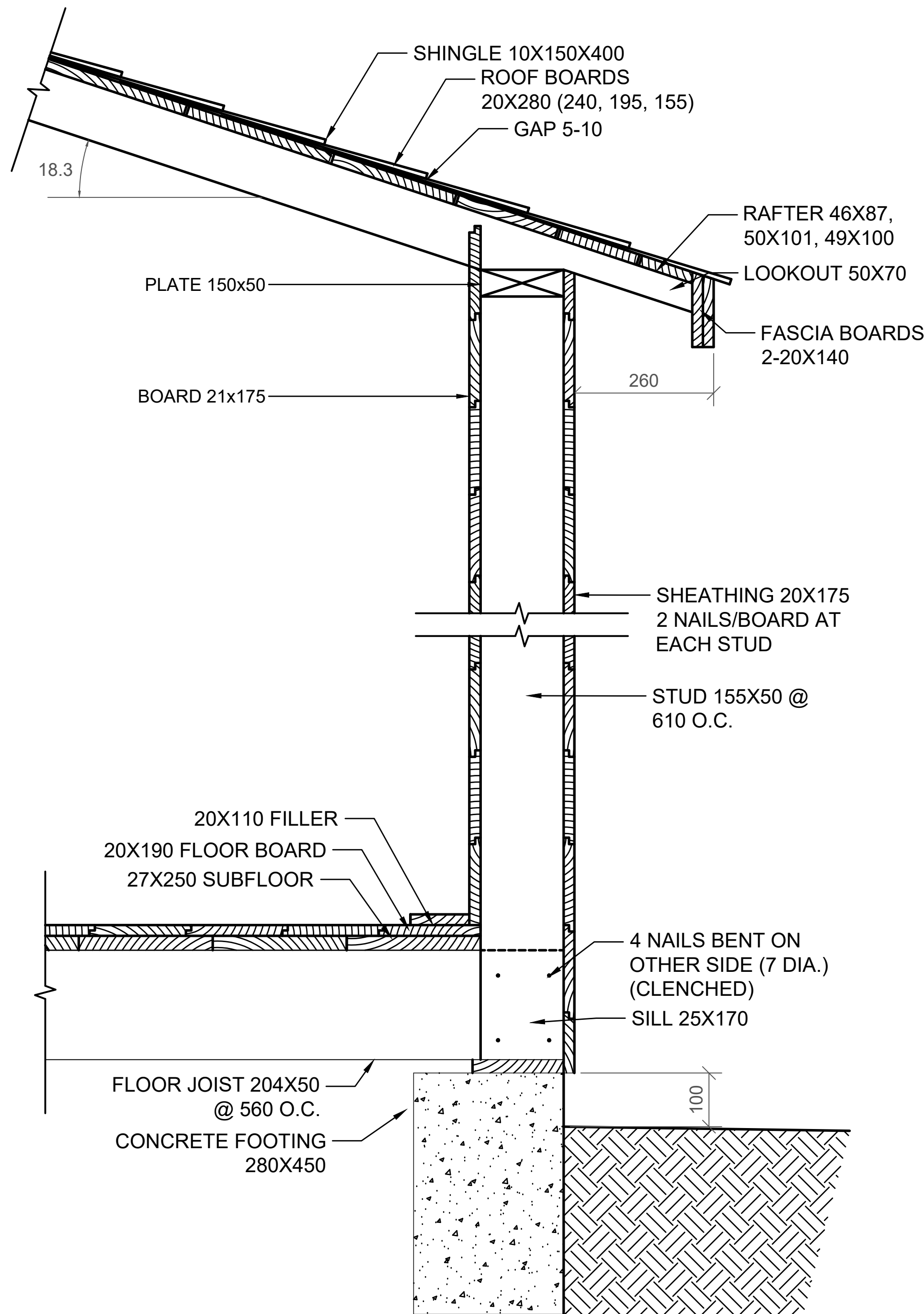
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
<b>R.083678.001</b>	<b>EX30</b> OF 33	



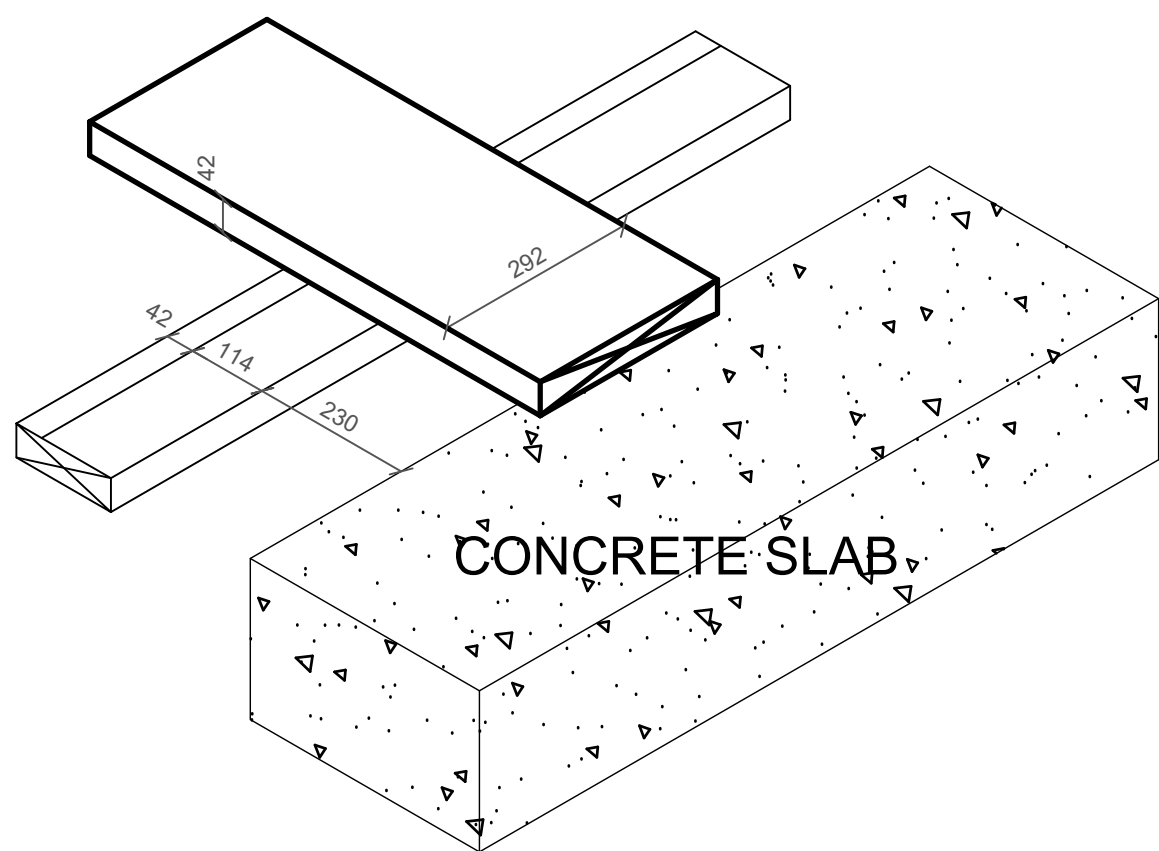
1 FIRST FLOOR KEY PLAN  
EX30 1 : 100



2 E-W SECTION LOOKING SOUTH  
EX30 1 : 50

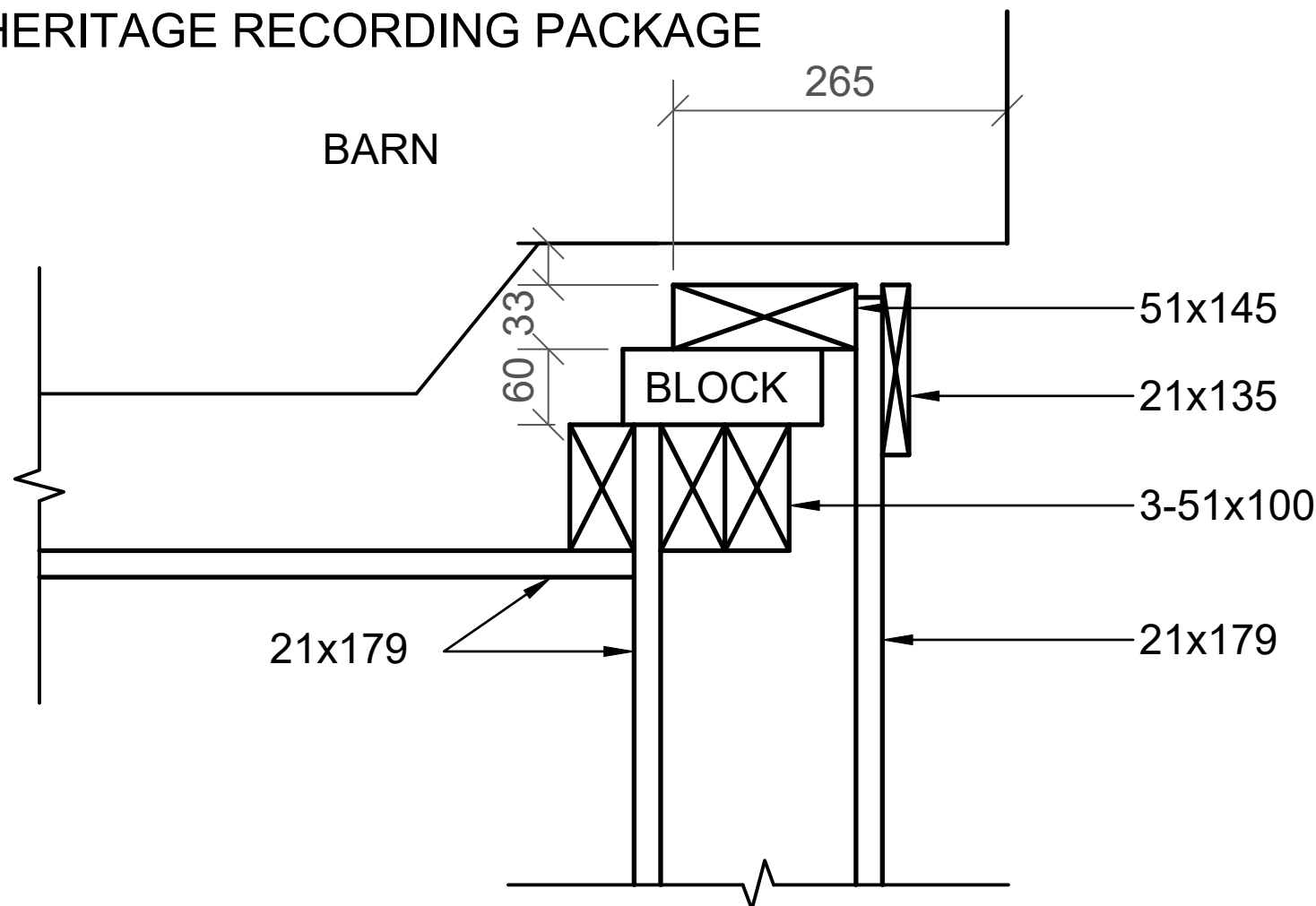


3 WEST ADDITION WALL-ROOF DETAIL  
EX30 1 : 20



4 ADDITION FLOOR DETAIL  
EX30 NTS

NOTE: STRUCTURAL DETAIL  
DRAWINGS ADAPTED FROM 1996  
HERITAGE RECORDING PACKAGE



5 SW CORNER OF BARN MEETS ADDITION  
EX30 NTS



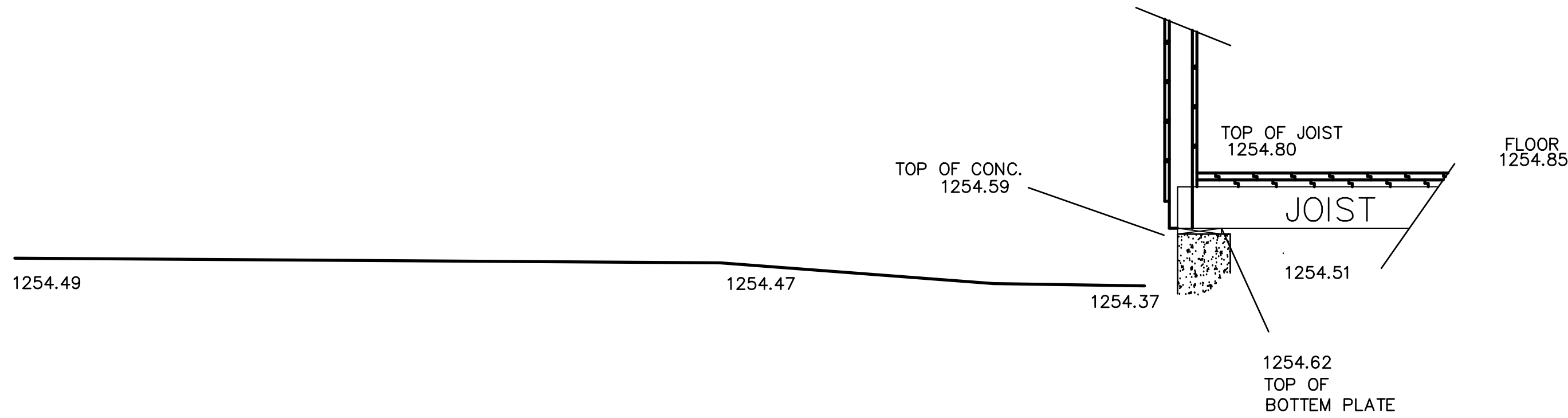
6 WEST ADDITION RAFTERS  
EX30



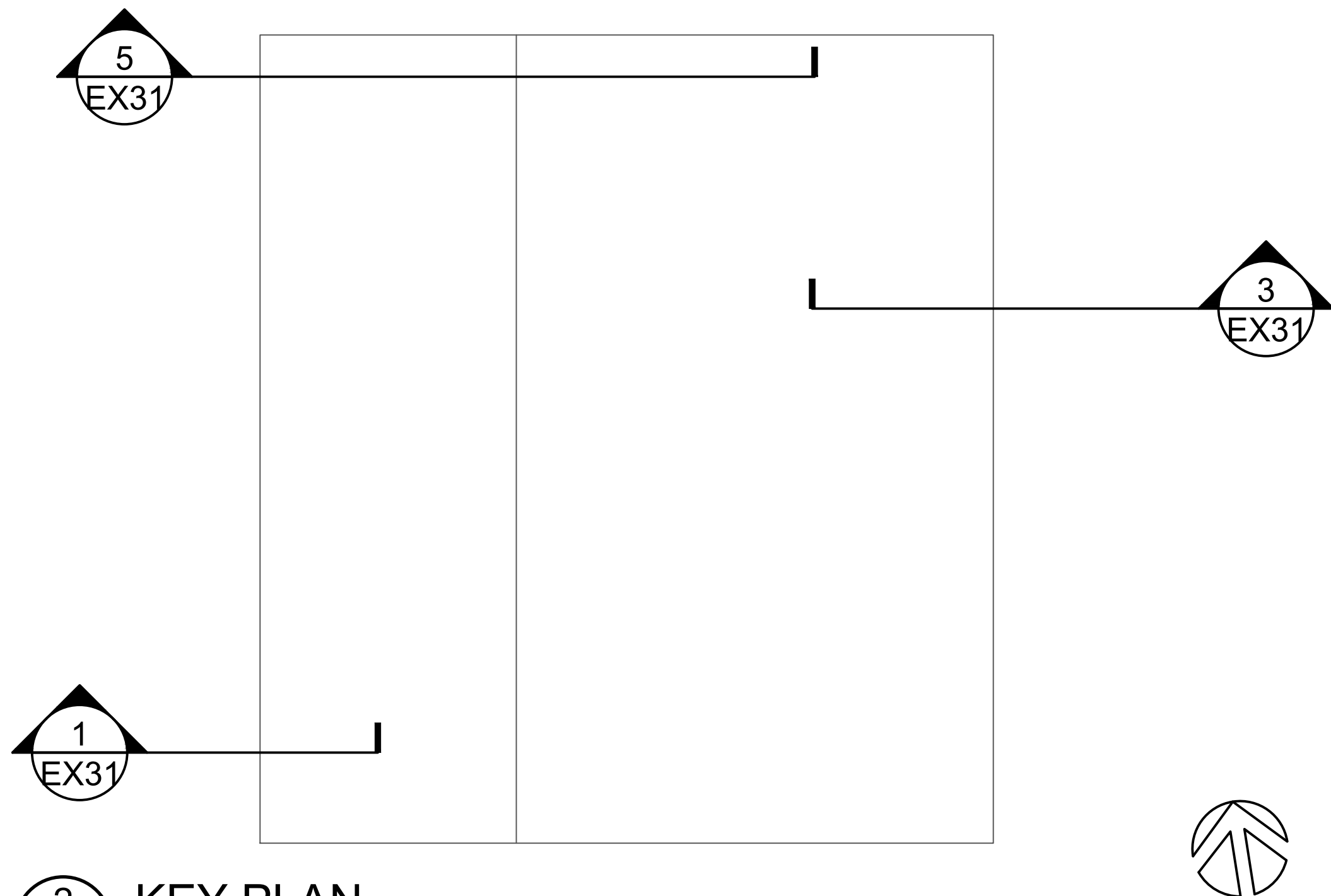
GENERAL NOTES (EX SET):

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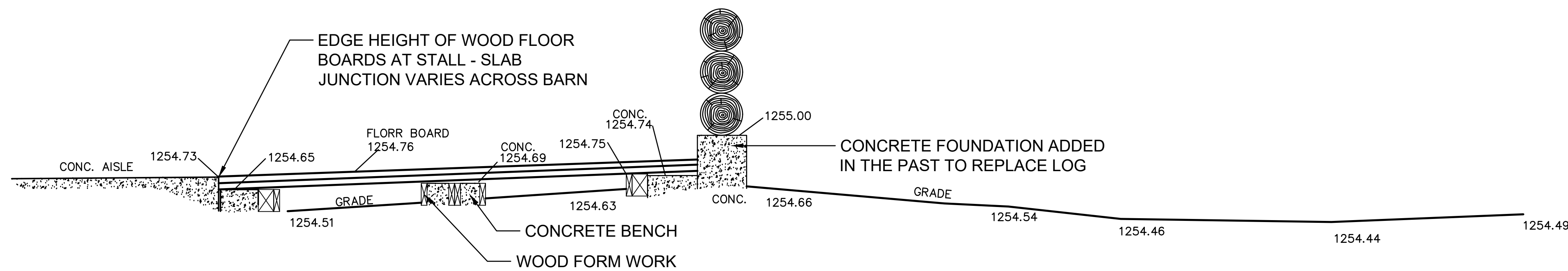
NOTE: LOGS ARE DIAGRAMMATIC. EXACT  
SIZE TO BE VERIFIED ON SITE



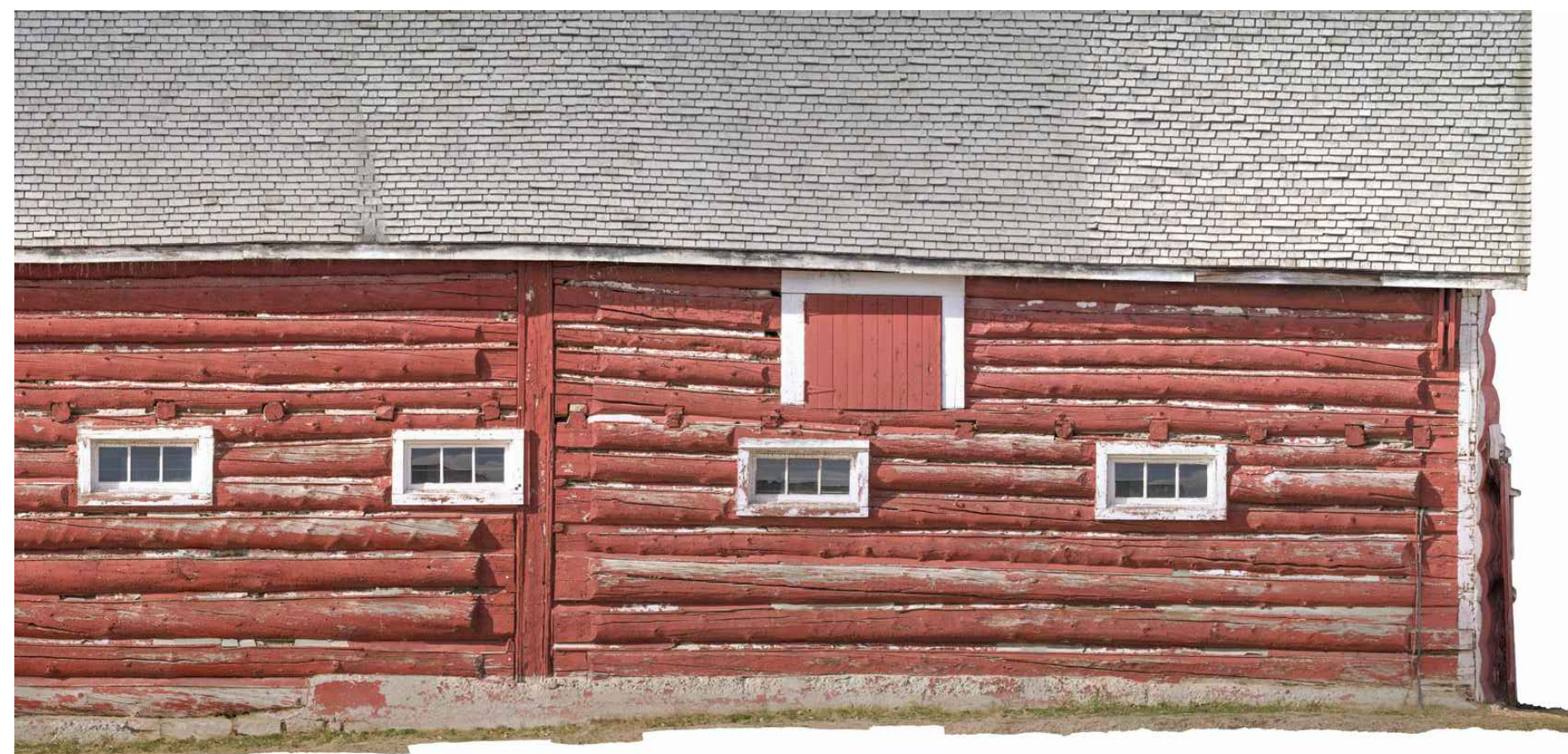
1 TOPOGRPAHIC CROSS SECTION 1  
EX31 1 : 20



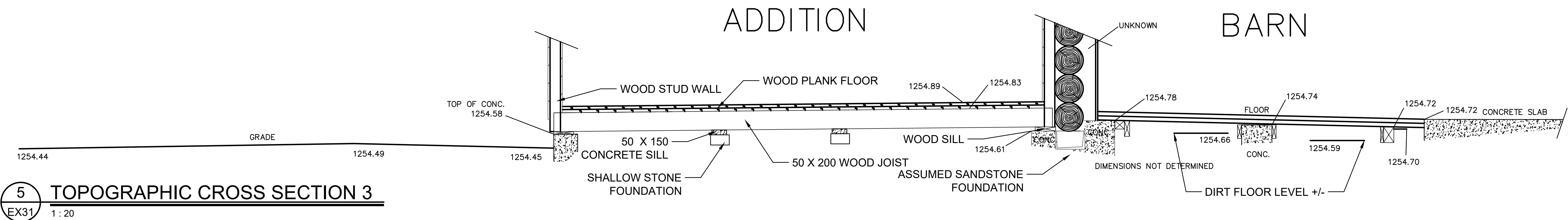
2 KEY PLAN  
EX31 1 : 100



3 TOPOGRAPHIC CROSS SECTION 2  
EX31 1 : 20



4 CONCRETE FOUNDATION ON EAST ELEVATION  
EX31



5 TOPOGRAPHIC CROSS SECTION 3  
EX31 1 : 20

NOTE: RANDOM STONE UNITS PRESENT  
BELOW WOOD FLOORS WITHIN SOIL IN  
ADDITION AND MAIN BARN

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Client		Client

PUBLIC SERVICES AND  
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(PSPC)

LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

Designed by  
K. MAYER  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWSC Project Manager  
G. SPENCE  
Approved by  
Approve: pot  
Administrateur de Projets TPSGC

Drawing title  
EXISTING TOPOGRAPHIC  
SECTIONS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.083678.001	EX31 OF 33	



GENERAL NOTES (EX SET):

1. THE WORKHORSE BARN AS A STRUCTURE ON THE BAR U RANCH, NATIONAL HISTORIC SITE, HAS BEEN DESIGNATED A "CLASSIFIED" BUILDING. THE ENTIRE SITE IS INCLUDED IN THIS CLASSIFICATION. REPAIR AND REHABILITATION WORK MUST PROCEED ACCORDING TO RECOGNIZED CONSERVATION PRINCIPLES. IT IS ESSENTIAL THESE PRINCIPLES BE UNDERSTOOD BY THE CONTRACTOR AS THEY RELATE TO THE BARN CONSTRUCTION AND PROTECTION THEREOF.
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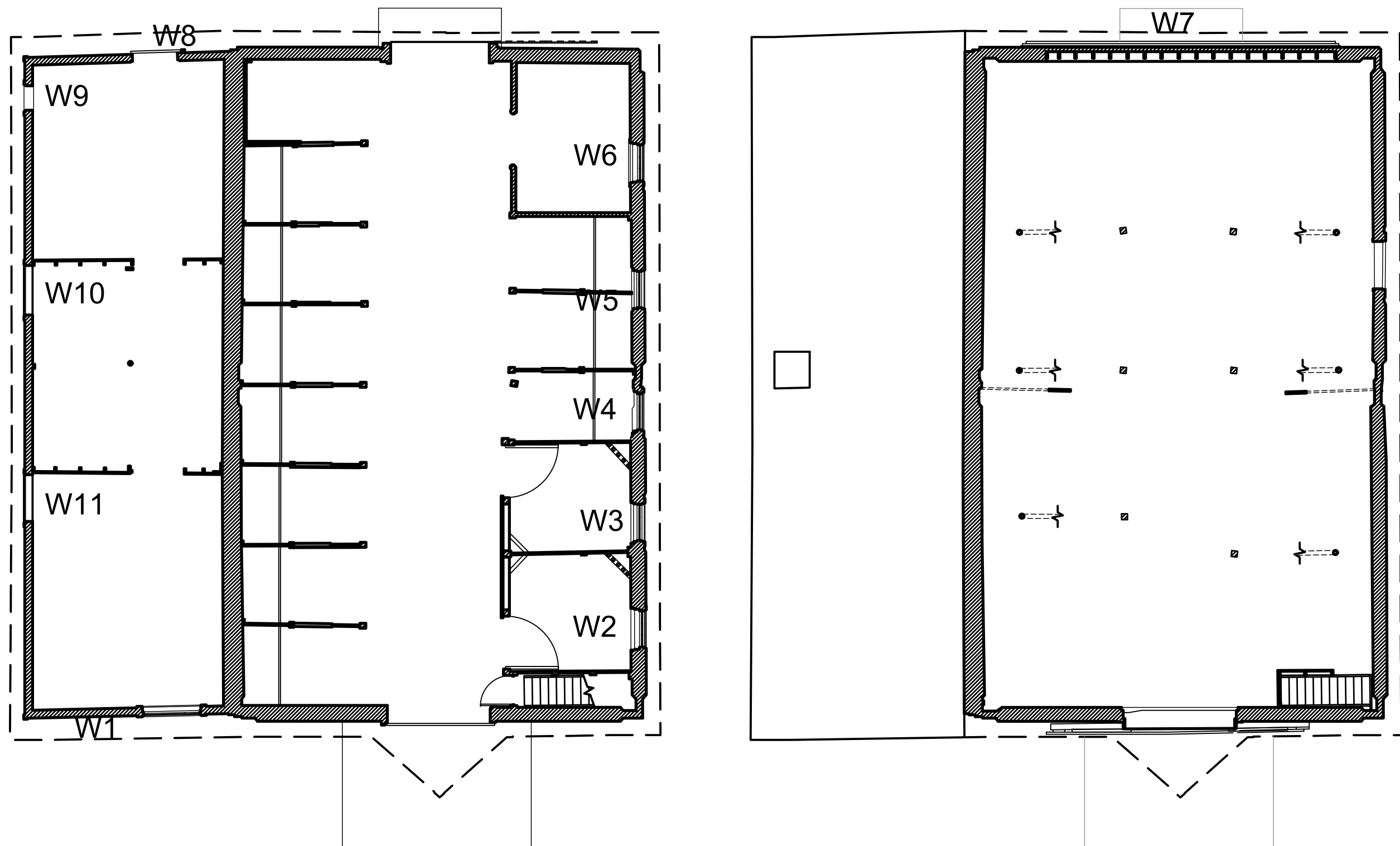
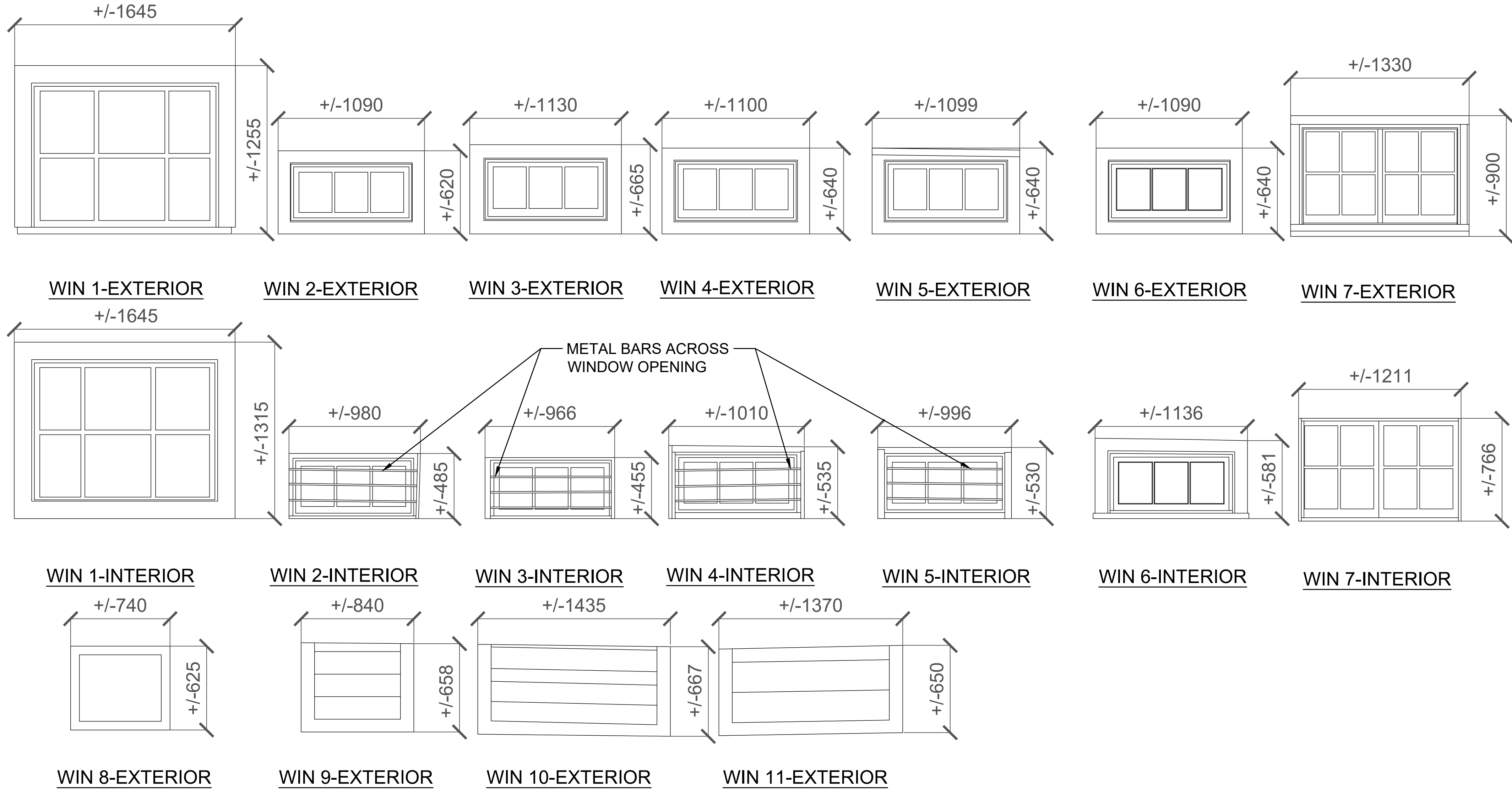
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Client		

PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project	Project
LONGVIEW, ALBERTA	
2018-2019	
BAR U RANCH N.H.S.C. WORK HORSE BARN REHABILITATION	

Designed by	Design: pdf
A. PIOWAR	
Drawn by	Dessiné: pdf
HCS	
Checked by	Approuvé: pdf
D. STEPHENSON/ C. BOUFFARD-LIMA	
Project Manager	Administrateur de Projets: TPSGC
G. SPENCE	

Drawing title		Titre du dessin	
WINDOW SCHEDULE			
Project no./No. du projet		Drawing no./No. du dessin	
R.083678.001		EX32	
		OF 33	
		Revision no.	



1 FIRST FLOOR KEY PLAN  
EX32 1: 100

2 LOFT KEY PLAN  
EX32 1: 100

WINDOW SCHEDULE		
TYPE	DESCRIPTION	COUNT
W1	WOODEN FRAME WITH 6 LIGHTS	1
W2-6	WOODEN FRAME WITH 3 LIGHTS	5
W7	WOODEN FRAME WITH 8 LIGHTS	1
W8	WOODEN FRAME WITH 1 LIGHT	1
W9	WOODEN FRAME AND WOOD PLANK COVER	1
W10	WOODEN FRAME AND WOOD PLANK COVER	1
W11	WOODEN FRAME AND WOOD PLANK COVER	1

NOTE: WINDOW HARDWARE EXISTS FOR ALL WINDOWS EXCEPT W9-11



GENERAL NOTES (EX SET):

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Direction Générale des Biens Immobiliers  
Services Publics et Approvisionnement Canada

5		
4		
3		
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1		
0	ISSUE FOR TENDER	2019/04/30
Revision	Description	Date
Client		client

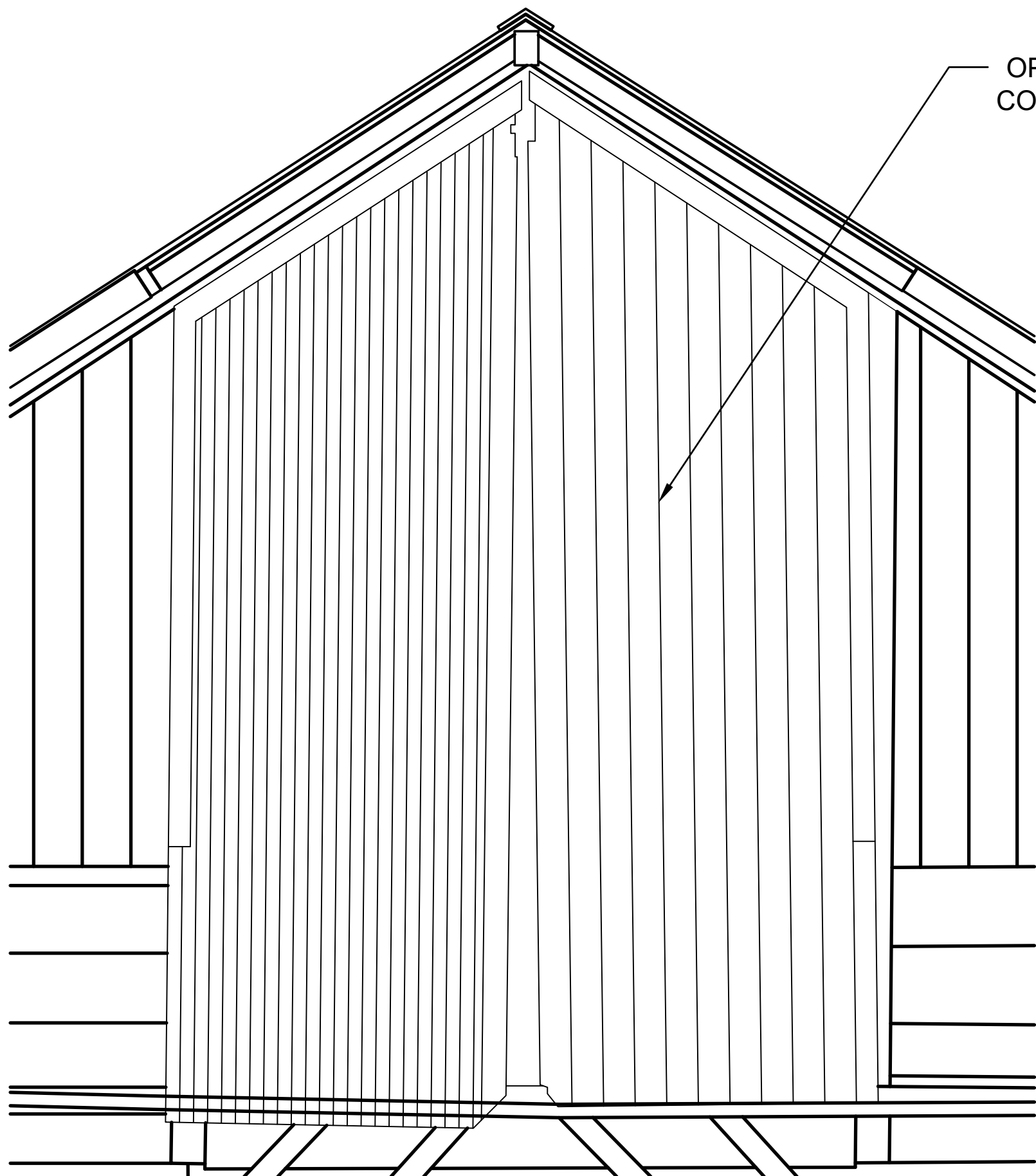
PUBLIC SERVICES AND  
PROCUREMENT CANADA  
(PSPC)

Project no./No. du projet  
LONGVIEW, ALBERTA  
2018-2019  
BAR U RANCH N.H.S.C.  
WORK HORSE BARN  
REHABILITATION

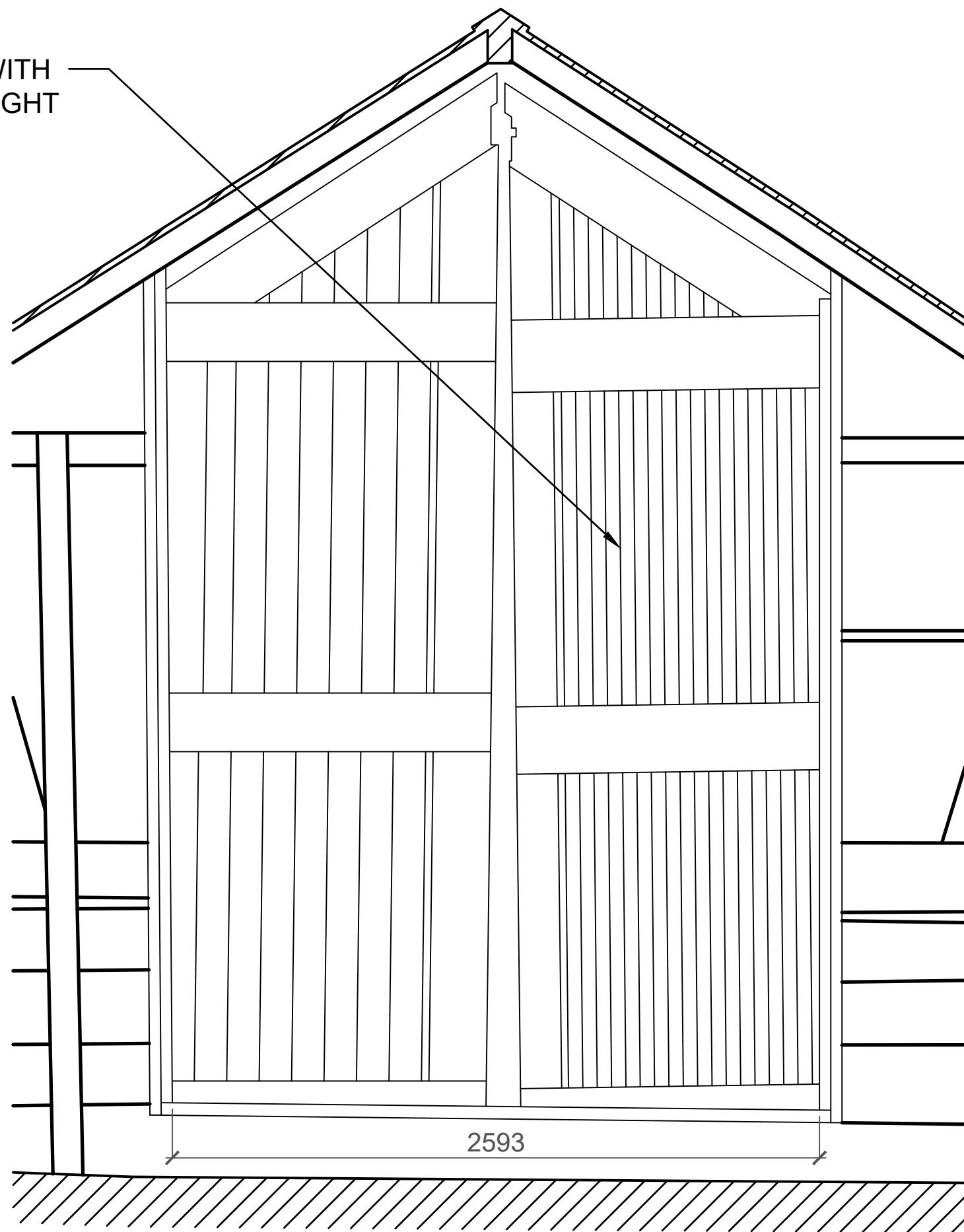
Designed by  
A. PIOWAR  
Drawn by  
HCS  
Checked by  
D. STEPHENSON/ C. BOUFFARD-LIMA  
PWOSC Project Manager  
G. SPENCE  
Administrateur de Projets TPSGC

Drawing title  
EXISTING DOOR  
SCHEDULE

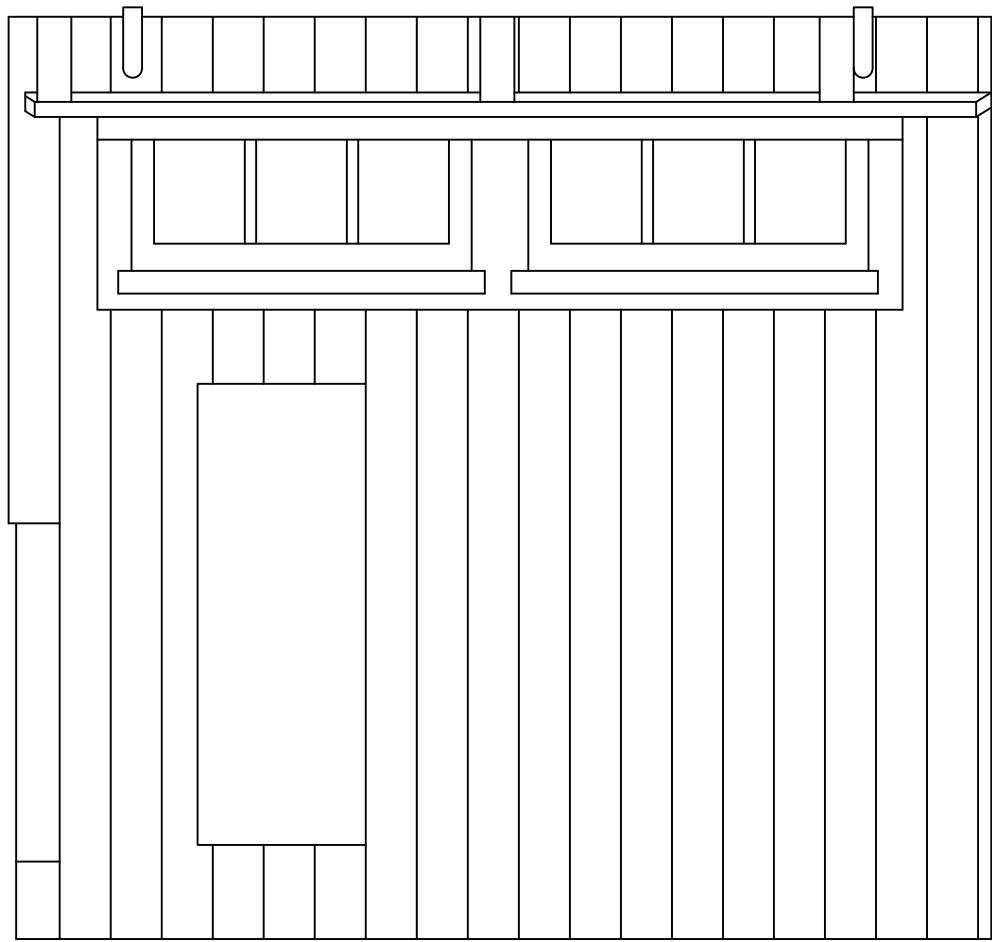
Project no./No. du projet  
R.083678.001  
Drawing no./No. du dessin  
EX33  
Revision no.  
OF 33



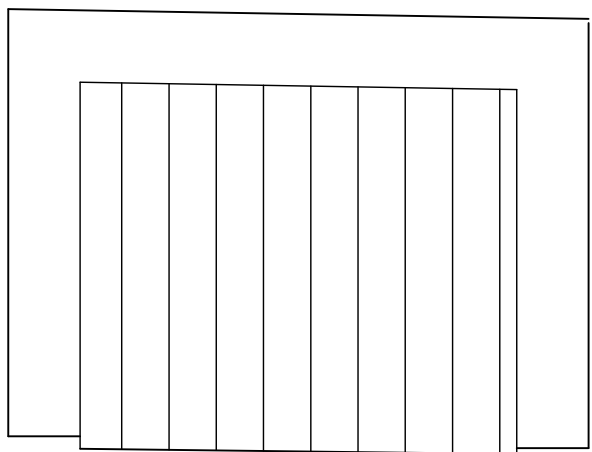
DOOR 1-EXTERIOR



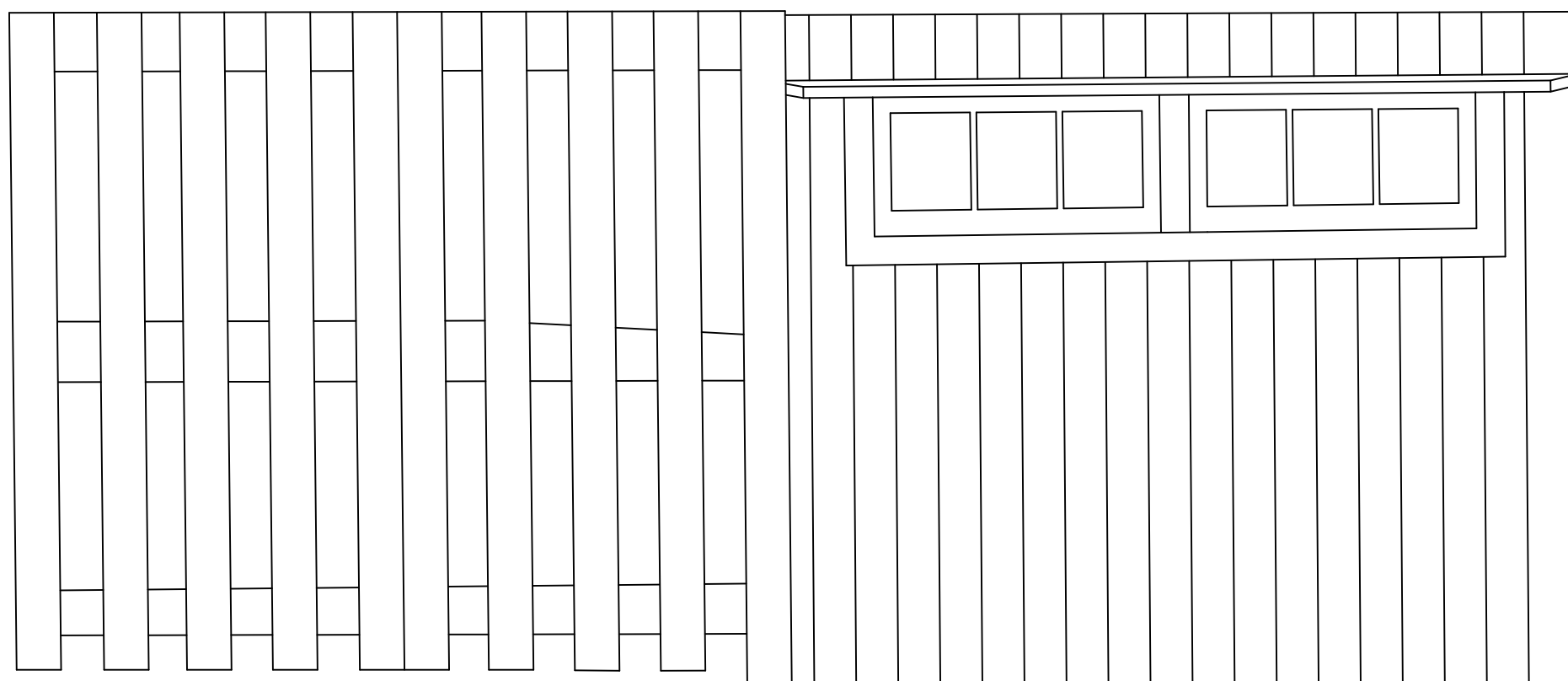
DOOR 1-INTERIOR



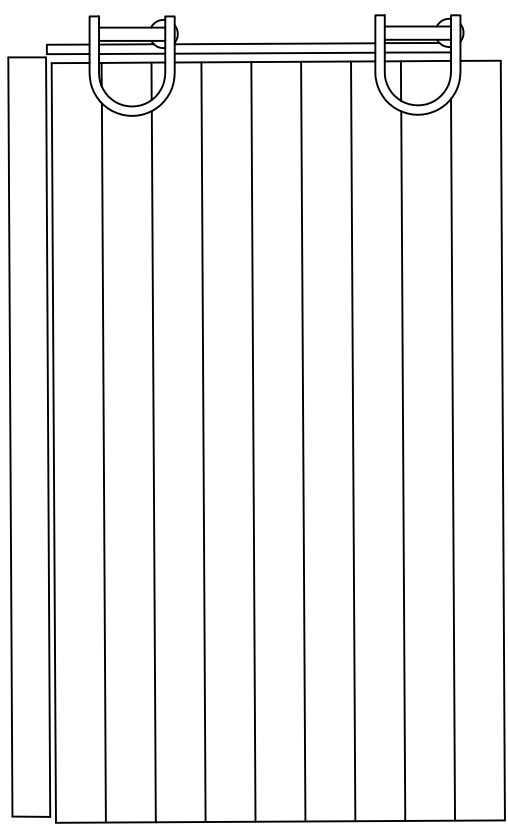
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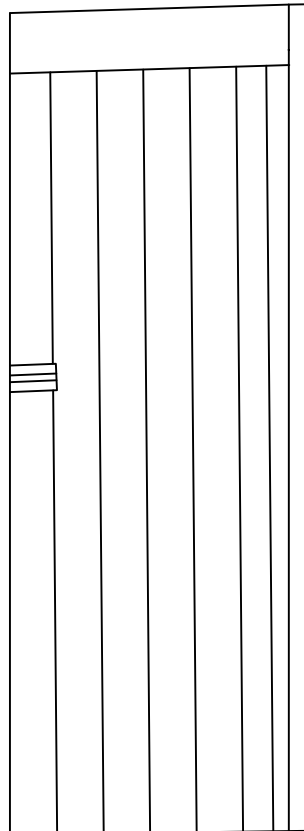
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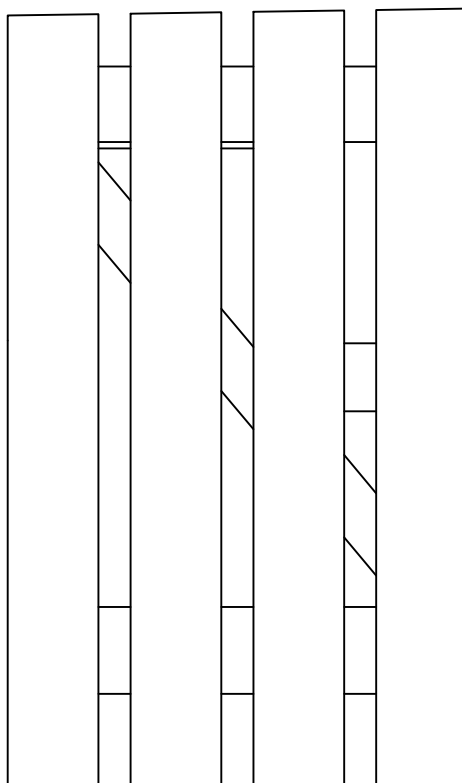
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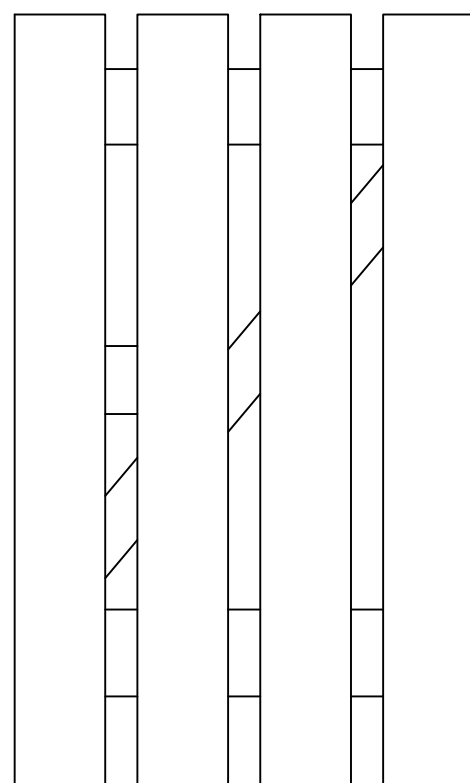
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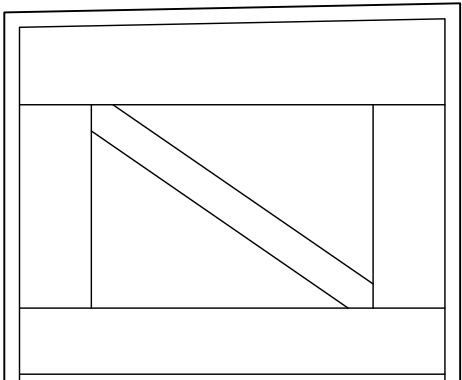
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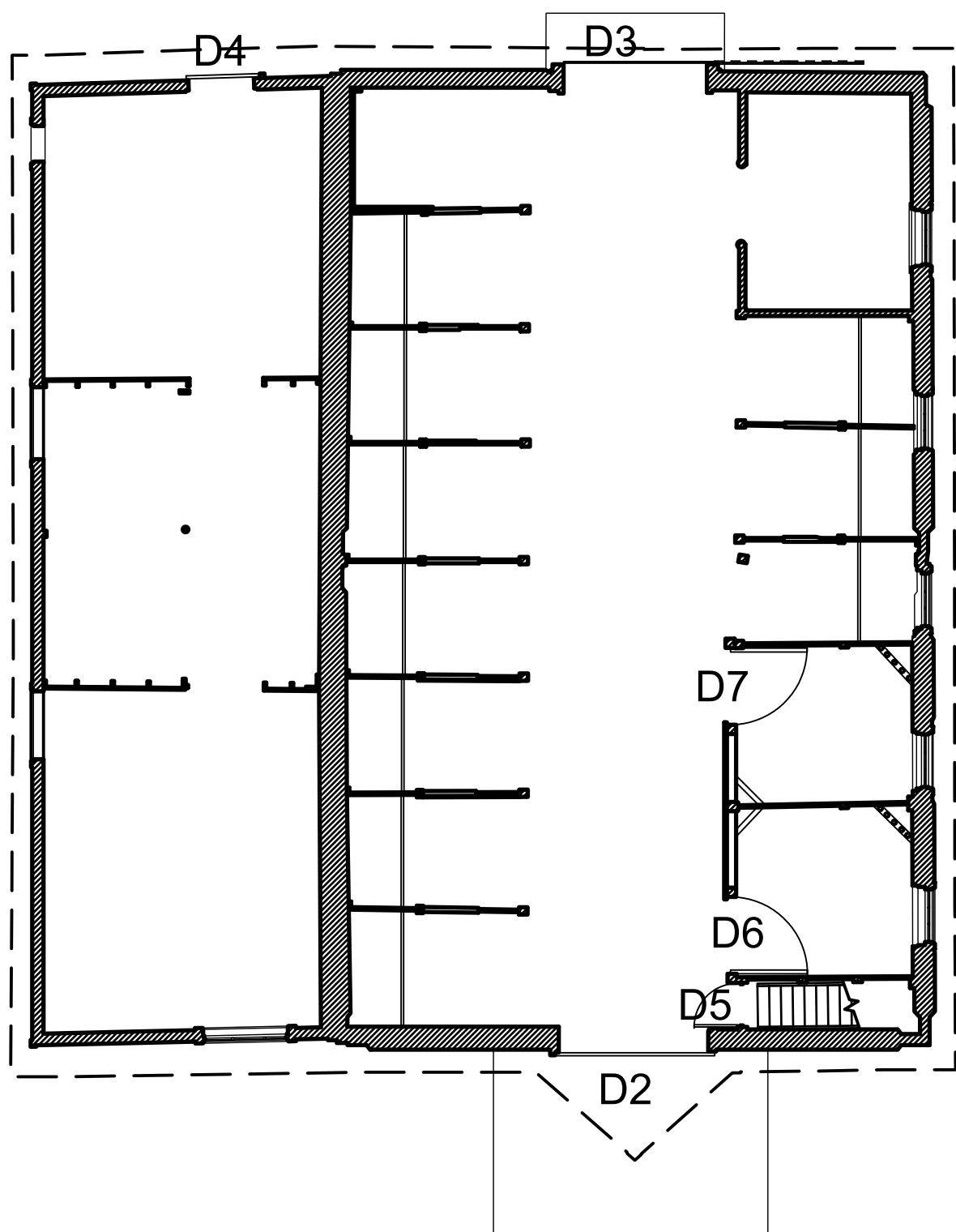
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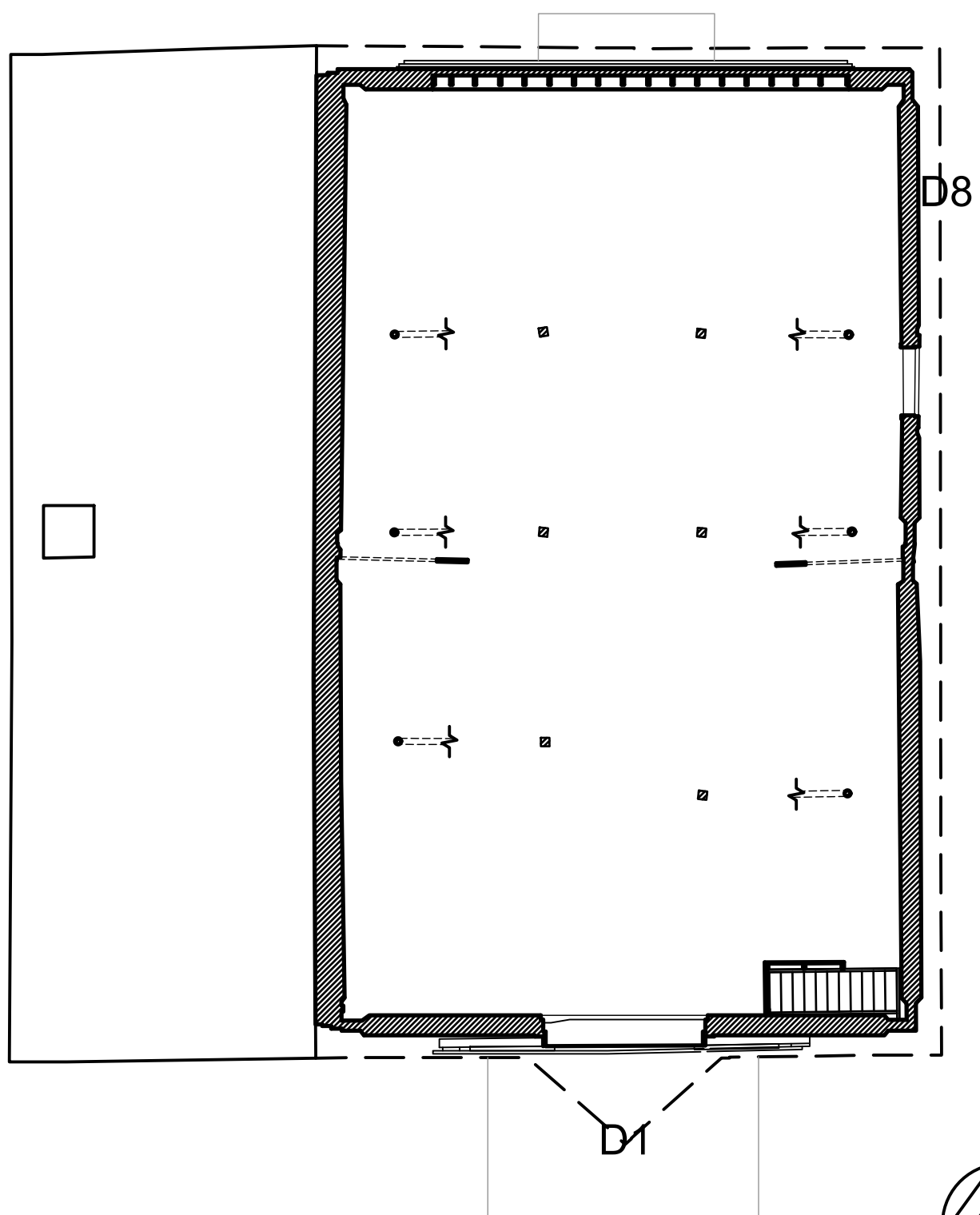
DOOR 7-INTERIOR



DOOR 8-INTERIOR



1 FIRST FLOOR KEY PLAN  
EX33 1: 100



2 LOFT KEY PLAN  
EX33 1: 100

DOOR SCHEDULE		
TYPE	DESCRIPTION	COUNT
D1	LOFT SLIDING DOUBLE DOORS AND HARDWARE	1
D2	SOUTH SLIDING SINGLE DOOR AND HARDWARE	1
D3	NORTH SLIDING DOUBLE DOORS AND HARDWARE	1
D4	NORTH SLIDING SINGLE DOOR AND HARDWARE	1
D5	FLUSH SINGLE DOOR AND HARDWARE	1
D6	Z-BRACE SINGLE DOOR AND HARDWARE	1
D7	Z-BRACE SINGLE DOOR AND HARDWARE	1
D8	FLUSH SINGLE DOOR AND HARDWARE	1