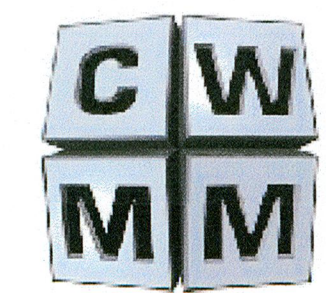


DRAWING LIST

- S100 TITLE SHEET & KEY MAP
- S101 GENERAL NOTES
- S102 EXISTING PHOTOS
- S201 TOP SOUTH PLATFORM PLANS
- S202 MIDDLE NORTH EAST PLATFORM PLANS
- S203 LOWER NORTH WEST PLATFORM PLANS
- S301 SHELTER SECTIONS & DETAILS
- S302 SECTIONS & DETAILS



KEY MAP



0	ISSUED FOR TENDER	MAY 11 2015
Revision/ Révision	Description/Description	Date/Date

A C	A detail number numéro de détail B source drawing no. de dessin no. C detail on drawing no. détail sur dessin no.	A B C
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Client/client
**PARKS CANADA
 WESTERN REGION**

Project title/Titre du projet
**RADAR HILL
 VIEWPOINT SHELTER**

Consultant Signature Only
 Designed by/Concept par
LL
 Drawn by/Dessiné par
MC
 PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

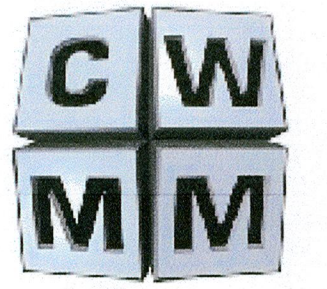
Professional Engineer
 L. K. S. LAM
 May 11, 2015

Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Principal Paul
 Drawing title/Titre du dessin
TITLE SHEET & KEY MAP

Project No./No. du projet R.073927.001	Sheet/Feuille S100	Revision no./La Révision no.
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12186





GENERAL

- THIS SET OF DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE STRUCTURAL SPECIFICATIONS AND WITH THE DRAWINGS AND SPECIFICATIONS FROM ALL OTHER CONSULTANTS. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY FOR CLARIFICATION.
- THIS SET OF DRAWINGS SHOWS THE COMPLETED STRUCTURE AND DOES NOT SHOW WORK WHICH MAY BE REQUIRED FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR GENERAL SAFETY ON AND ABOUT THE JOB SITE DURING THE CONSTRUCTION PERIOD AND FOR DESIGN AND ERECTION OF ALL FALSEWORK, SHORING, BRACING ETC. TO ENSURE THE SAFETY OF ALL CONSTRUCTION TEMPORARY LOADS AND TO COMPLETE THE WORK. ADHERE STRICTLY TO ALL REQUIREMENTS OF THE WORKSAFE BC. ALL TEMPORARY WORKS AND SHORING ETC. SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN BRITISH COLUMBIA.
- ALL CODE REFERENCES ARE TO LATEST EDITIONS AS REFERENCED IN THE NBCC 2010.
- REFER TO SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS AND CODE REFERENCES.

FIELD REVIEW:

- DEPARTMENTAL REPRESENTATIVE THROUGH CWMM CONSULTING ENGINEERS PROVIDES FIELD REVIEW FOR THE WORK SHOWN ON THE STRUCTURAL DRAWINGS PREPARED BY CWMM CONSULTING ENGINEERS LTD. THIS REVIEW IS A PERIODIC REVIEW AT THE PROFESSIONAL JUDGMENT OF CWMM CONSULTING ENGINEERS LTD. THE PURPOSE IS TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY CWMM CONSULTING ENGINEERS LTD. AND TO FULFILL THE REQUIREMENTS FOR THE COMPLETION OF LETTERS OF ASSURANCE REQUIRED BY THE APPLICABLE BUILDING CODE.
- ALL NON-CONFORMING WORKS THAT REQUIRE REMEDIAL ACTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY EXTRA TIME OR COST INCURRED TO PWGSC IN RECTIFYING THE WORK SHALL BE BORNE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT.

DESIGN LOADS:

- THIS STRUCTURE HAS BEEN DESIGNED FOR SNOW, WIND AND SEISMIC FORCES IN SUBSTANTIAL COMPLIANCE WITH THE PROVISIONS SET FORTH IN THE NATIONAL BUILDING CODE 2010. IMPORTANT CATEGORY-NORMAL.

GROUND SNOW:	S _s = 1.1 kPa
RAIN LOAD:	S _r = 0.4 kPa
IMPORTANCE FACTORS FOR SNOW	I _s = 1.0 FOR STRENGTH I _s = 0.9 FOR SERVICEABILITY
WIND LOAD:	PROBABILITY 1/10 = 0.53 kPa PROBABILITY 1/50 = 0.68 kPa
IMPORTANCE FACTORS FOR WIND	I _w = 1.0 FOR STRENGTH I _w = 0.75 FOR SERVICEABILITY

EARTHQUAKE FACTORS:	Sa(0.2)	Sa(0.5)	Sa(1.0)	Sa(2.0)
	1.20	0.94	0.48	0.21

I_E = 1.0 FOR STRENGTH
I_E = 1.0 FOR SERVICEABILITY
(CLAUSE 4.1.8.13 FOR SERVICEABILITY)
F_a = 1.0 F_v = 1.0
R_d = 1.5 R_o = 1.5

SITE CLASS C

- SPECIFIED UNIFORM SUPERIMPOSED DEAD LOADS ON DECK: (THESE LOADS DO NOT INCLUDE SELFWEIGHT OF STRUCTURE.)
DECK 0.25 kPa
- SPECIFIED UNIFORM LIVE LOADS ON DECK:
DECK 4.8 kPa
- DESIGN SPECIFIED CONCENTRATED LIVE LOADS ON DECK:
DECK 4.5 kN
- WORST CASE OF UNIFORM OR CONCENTRATED LIVE LOADS WILL BE USED FOR DESIGN OF STRUCTURAL MEMBERS.

FOUNDATION AND EXECUTION OF SITE WORK

- REFER TO GEOTECHNICAL REPORT PREPARED BY LEVELTON CONSULTANTS LTD. DATED FEBRUARY 27, 2015 AND ALL ITS SUPPLEMENTS AND AMENDMENTS FOR EXCAVATION, BACKFILLING, FILL MATERIALS, COMPACTION, FROST PROTECTION AND OTHER SITE PREPARATION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.
- ASSUMED DESIGN SOIL BEARING CAPACITIES:
FOOTING SLS=50 kPa
ULS=75 kPa
- ANY FOOTING ELEVATIONS INDICATED ON THE DRAWINGS ARE GENERAL AND SHALL BE USED FOR ESTIMATING AND BIDDING PURPOSES. FOOTINGS MAY HAVE TO BE PLACED AT DIFFERENT ELEVATIONS AS A RESULT OF LOCAL SOILS CONDITIONS, UNDERGROUND SERVICES AND TO ACCOMMODATE OTHER MECHANICAL AND ELECTRICAL SERVICES. FOLLOW TYPICAL DETAILS SHOWN ON THESE DRAWINGS FOR FOOTING PLACEMENT RELATIVE TO ADJACENT FOOTINGS, SUMP AND OTHER EXCAVATED STRUCTURES AND LOCATE AS DIRECTED BY GEOTECHNICAL ENGINEER.
- THE BASES OF FOUNDATIONS SHALL BE PROTECTED FROM RAIN, SNOW AND ANY WATER INFILTRATION.
- NO FOUNDATIONS MAY BE POURED BEFORE THE BEARING MATERIAL HAS BEEN INSPECTED BY THE DEPARTMENTAL REPRESENTATIVE. NOTIFY THE DEPARTMENTAL REPRESENTATIVE MINIMUM 24 HOURS BEFORE INSTALLATION OF FOOTING REINFORCEMENT.
- IMMEDIATELY AFTER INSPECTION AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE, THE BEARING SURFACE SHALL BE COVERED BY A 50mm THICK CONCRETE GROUND SEAL OF 10MPa STRENGTH.
- REFER TO DRAWINGS FOR SITE DRAINAGE, GROUND ELEVATIONS AND DRAINAGE SLOPES.
- CENTRE ALL FOOTINGS UNDER COLUMNS OR WALLS UNLESS NOTED OTHERWISE.
- ALL BACKFILLING TO COMPLY WITH THE REQUIREMENTS PROVIDED BY THE DEPARTMENTAL REPRESENTATIVE.
- REFER TO DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING AND SEALING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY WORK DURING CONSTRUCTION. BRACING SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN BRITISH COLUMBIA.

CONCRETE REINFORCING:

- REFER TO SPECIFICATIONS FOR CONCRETE STRENGTH, EXPOSURE CLASS & OTHER REQUIREMENTS.
- REINFORCING BARS f=400 mPa. ALL DOWELS ANCHOR BOLTS AND INSERTS SHALL BE PLACED BEFORE THE CONCRETE IS POURED.
- PROVIDE MINIMUM CONCRETE COVER TO REINFORCEMENT AS FOLLOWS:
CAST AGAINST EARTH 75mm
EXPOSED TO EARTH OR WEATHER: 50mm
ELSEWHERE: 40mm

WOOD PRODUCTS

- REFER TO SPECIFICATIONS FOR TIMBER GRADE, CODE REFERENCES, AND OTHER REQUIREMENTS.
- 2x SOLID BLOCK SHALL BE PLACED BETWEEN ALL JOISTS AND RAFTERS AT SUPPORTS.
- ALL FLUSH FRAMED MEMBERS TO BE SECURED WITH APPROVED METAL JOIST HANGER.
- NAILS SHALL BE PLACED NOT LESS THAN 9mm FROM THE PANEL EDGE AND SHALL NOT BE OVER-DRIVEN MORE THAN 15% OF THE PANEL THICKNESS.

ABBREVIATIONS

TYP. TYPICAL	STAGG. STAGGERED
CONT. CONTINUOUS	HZE HOOK TWO ENDS
SIM. SIMILAR	BOT. BOTTOM
OPP. OPPOSITE HAND	T & B TOP AND BOTTOM
THK THICK	U.N.O. UNLESS NOTED OTHERWISE
DP. DEEP	MIN. MINIMUM
CL. CLEAR	MAX. MAXIMUM
COL. COLUMN	R/W REINFORCED WITH
PL. PLATE	O/C ON CENTRES
G.L. GRID LINE	U/S UNDERSIDE
E.W. EACH WAY	C/W COMPLETE WITH
E.F. EACH FACE	N.T.S. NOT TO SCALE
LG. LONG	S.O.G. SLAB ON GRADE
HDG. HOT DIPPED GALVANIZED	

0	ISSUED FOR TENDER	MAY 11 2015
Revision/	Description/Description	Date/Date

A detail number numéro de détail	A
B source drawing no. de dessin no.	B C
C detail on drawing no. détail sur dessin no.	

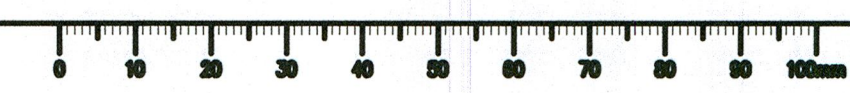
Client/client
**PARKS CANADA
WESTERN REGION**

Project title/Titre du projet
**RADAR HILL
VIEWPOINT SHELTER**

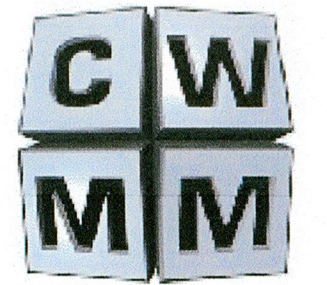
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LL
Drawn by/Dessine par
MC
PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architectural et de génie, TPSGC
Preetipal Paul

Drawing title/Titre du dessin
GENERAL NOTES

Project No./No. du projet R.073927.001	Sheet/ Feuille S101	Revision no./ La Révision no.
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PROFESSIONAL
ENGINEER
L. K. S. LAM
MAY 11, 2015



EXISTING TOP SOUTH PLATFORM (REFER TO DWG. S201 FOR DIRECTION OF VIEWS)



VIEW - 1



VIEW - 2



VIEW - 3



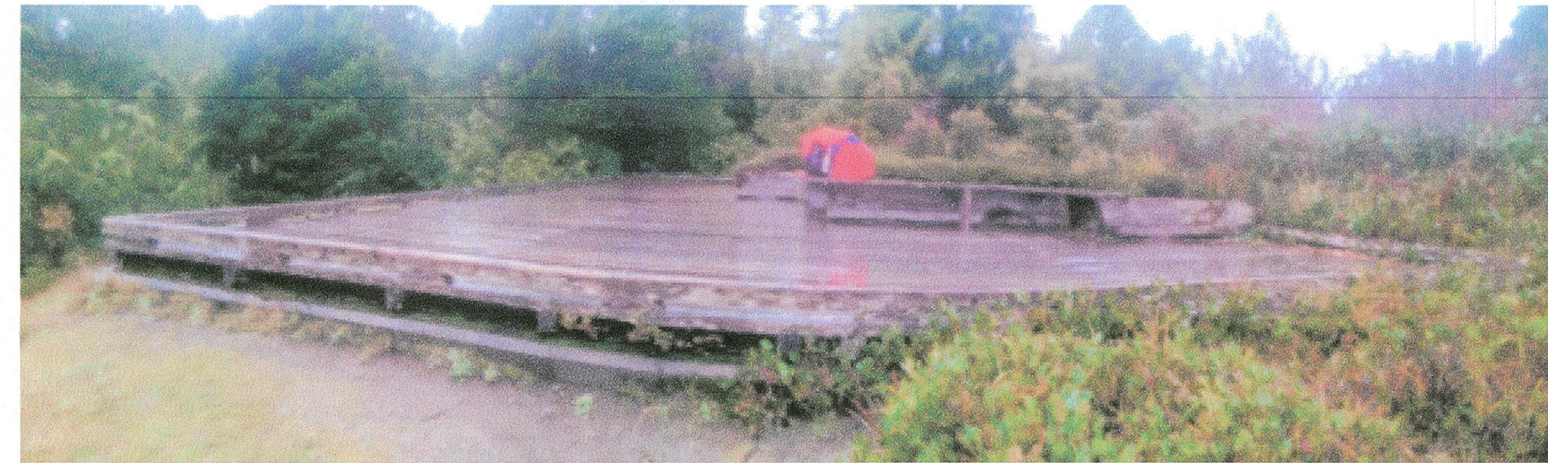
VIEW - 4



VIEW - 5



VIEW - 6



PANORAMIC VIEW - 1

EXISTING MIDDLE NORTH EAST PLATFORM (REFER TO DWG. S202 FOR DIRECTION OF VIEWS)



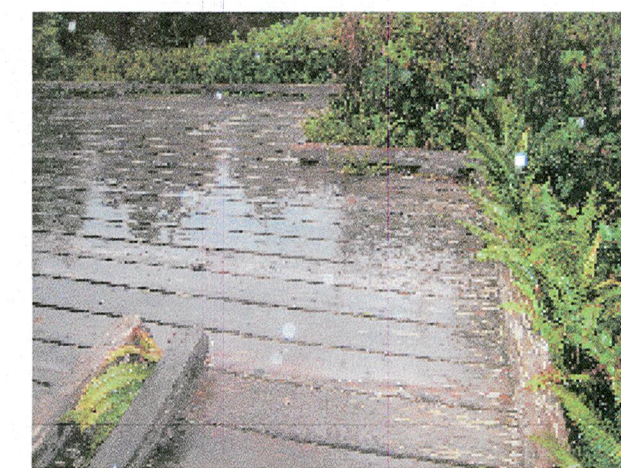
VIEW - 1



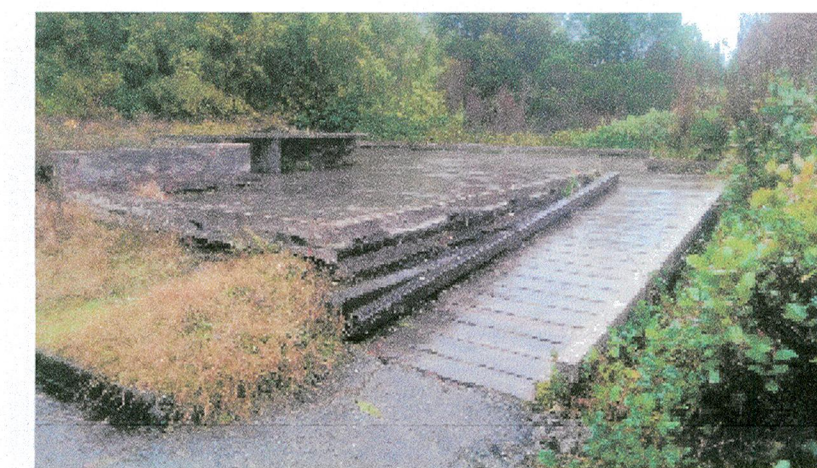
VIEW - 2



VIEW - 3



VIEW - 4

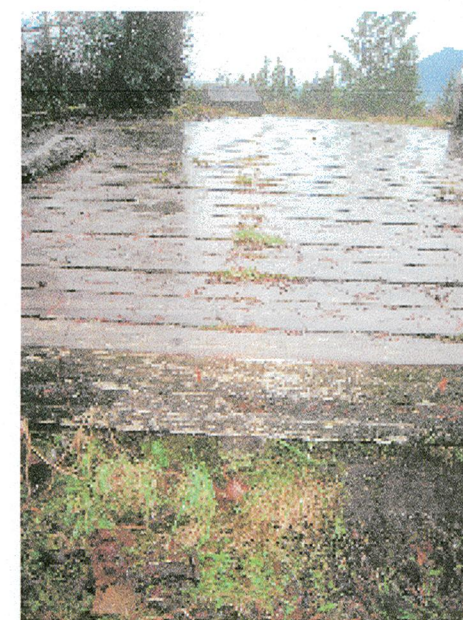


PANORAMIC VIEW

EXISTING LOWER NORTH WEST PLATFORM (REFER TO DWG. S203 FOR DIRECTION OF VIEWS)



VIEW - 1



VIEW - 2



VIEW - 3



MONUMENT 1 - FRONT VIEW



MONUMENT 1 - BACK VIEW



PANORAMIC VIEW

0	ISSUED FOR TENDER	MAY 11 2015
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Revision/Revision	Description/Description	Date/Date
A	detail number / numéro de détail	A
B	source drawing no. / de dessin no.	B
C	detail on drawing no. / détail sur dessin no.	C

Client/client
PARKS CANADA WESTERN REGION

Project title/Titre du projet
RADAR HILL VIEWPOINT SHELTER

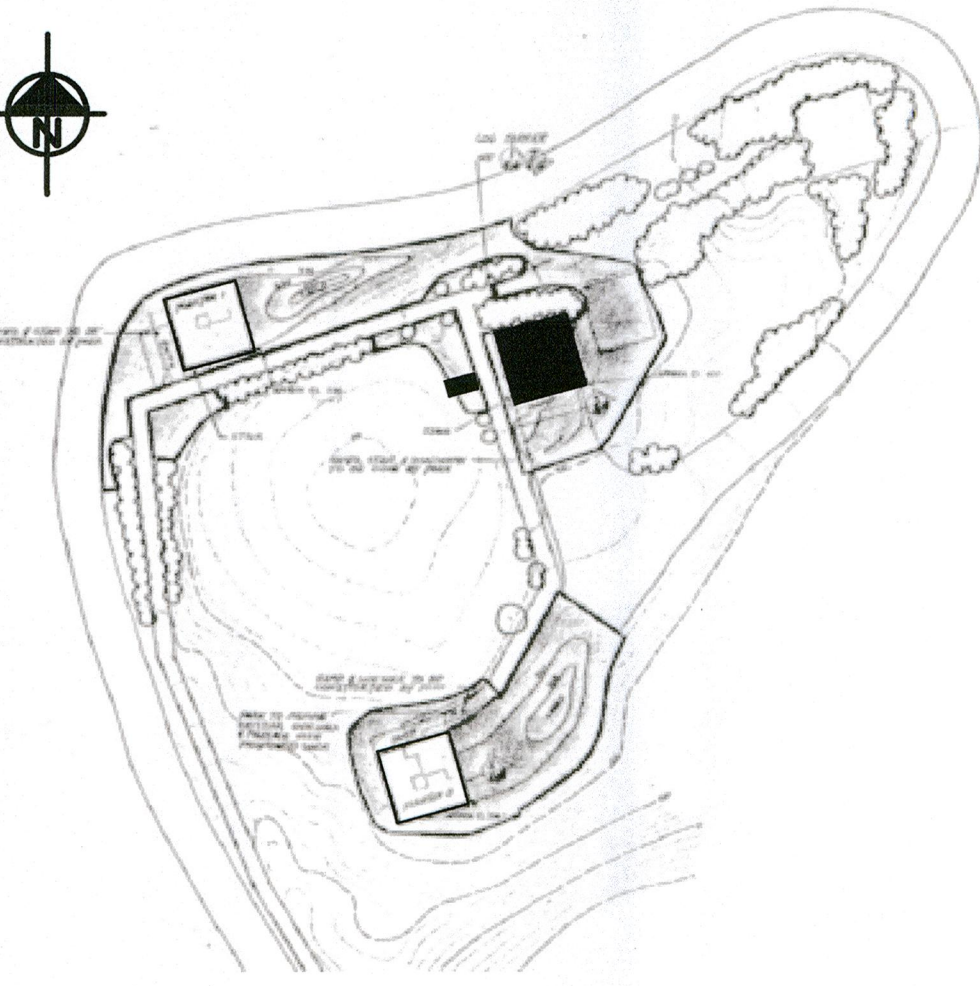
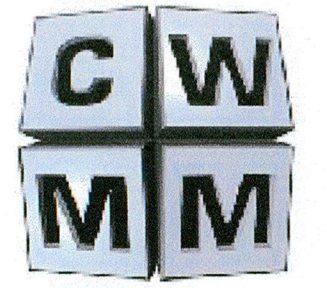
Consultant Signature Only
Designed by/Concept par LL
Drawn by/Dessiné par MC
PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
Preitipal Paul

Drawing title/Titre du dessin
EXISTING PHOTOS

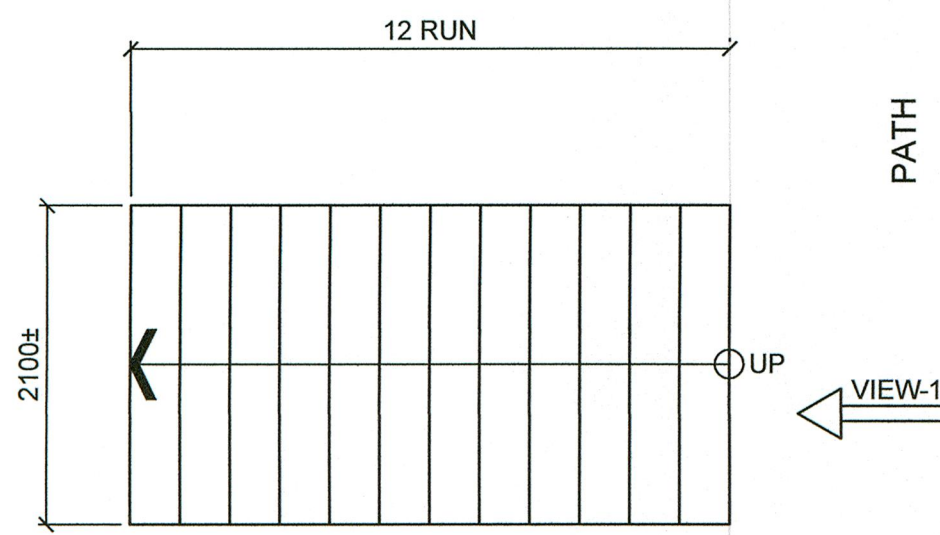
Project No./No. du projet R.073927.001	Sheet/Feuille S102	Revision no./La Révision no.
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L. K. S. LAM
MAY 11, 2015





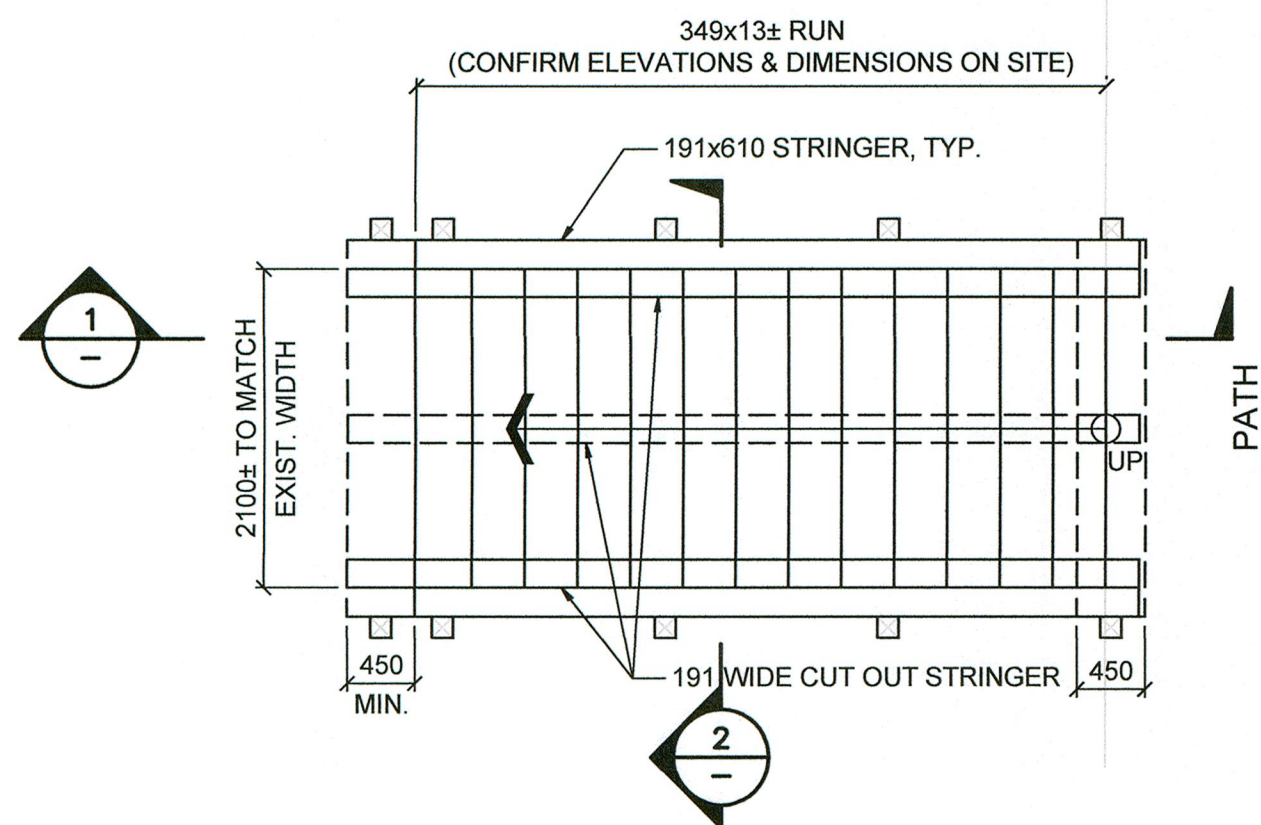
KEY PLAN
N.T.S.



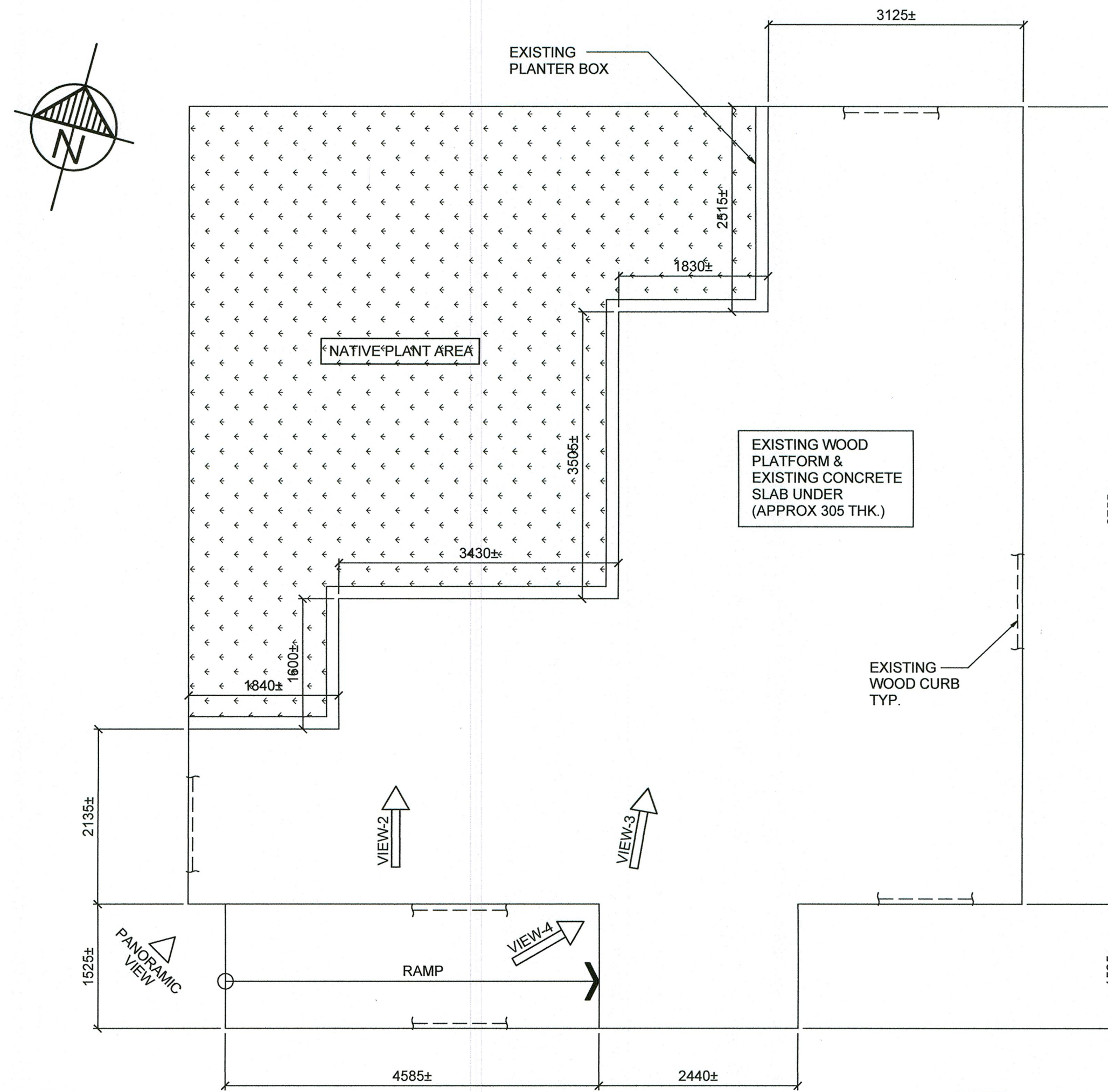
NOTES:

1. DEMOLISH & CART AWAY EXISTING WOOD STAIR
2. BUILD MATCHING WOOD STAIR TO SUIT SOIL PROFILE

EXISTING MIDDLE WOOD STAIR
1:50



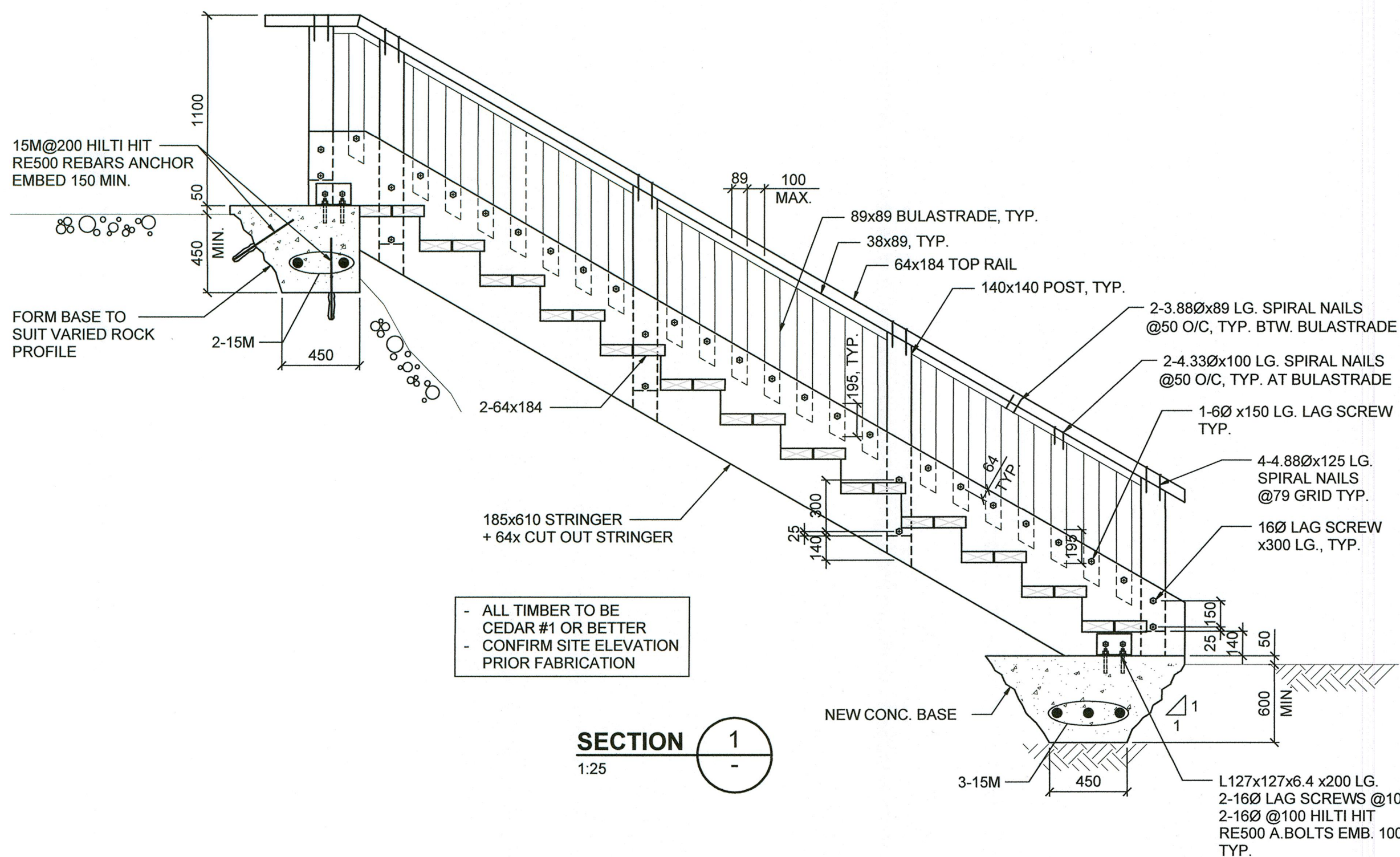
NEW MIDDLE WOOD STAIR
1:50



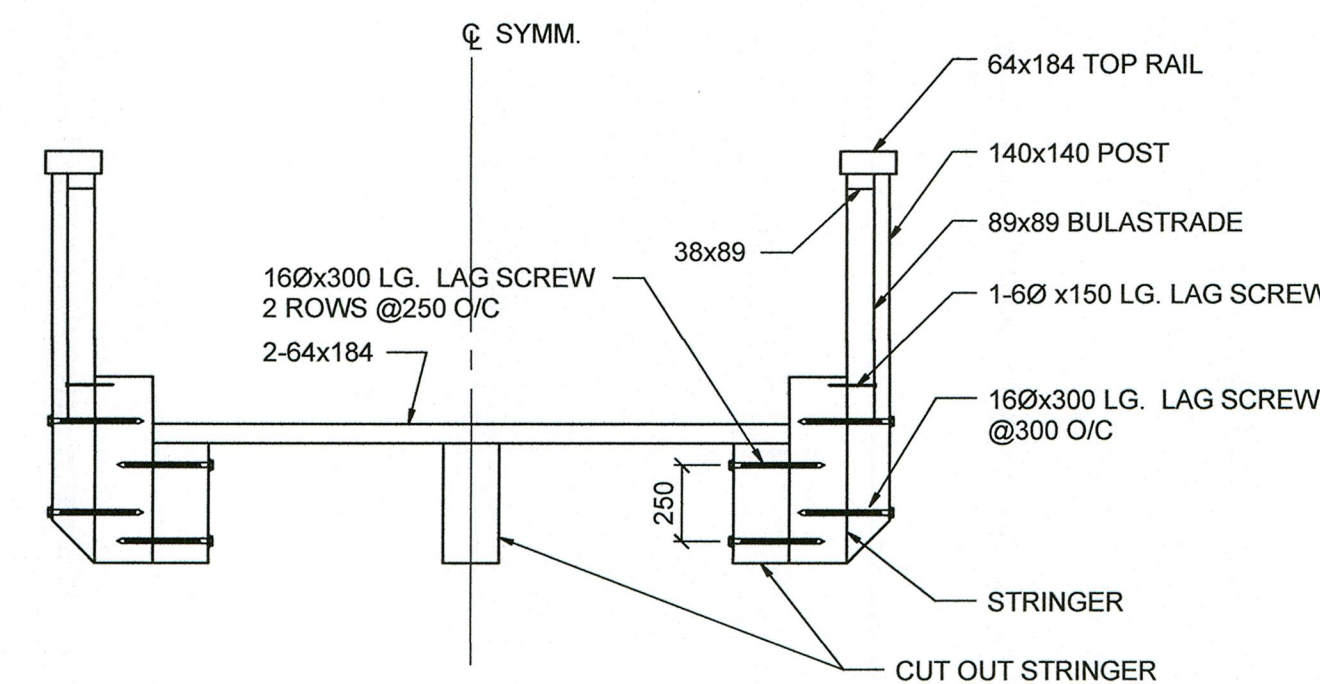
EXISTING MIDDLE NORTH WEST PLATFORM
1:50

NOTES:

1. DEMOLISH & CART AWAY EXISTING WOOD PLATFORM
2. CUT AWAY EXISTING ANCHOR BOLTS 50 BELOW EXISTING CONCRETE S.O.G.
3. FROM 100x100x50 POCKET, TYP., U.NO. AT EXISTING ANCHOR BOLT LOCATION
4. FILL POCKETS WITH NON-SHRINK GROUT TO MATCH S.O.G. FINISH
5. CLEAN UP EXISTING SURFACES TO REMOVE STAINS, PROJECTIONS AND ANY OTHER CONTAMINANTS
6. ALL FASTENERS' STEEL ANGLES & PLATES SHALL BE H.D.G.



SECTION 1
1:25



SECTION 2
1:25

- ALL TIMBER TO BE CEDAR #1 OR BETTER
- CONFIRM SITE ELEVATION PRIOR FABRICATION

PROFESSIONAL
L. K. S. LAM
ENGINEER
MAY 11, 2015

Client/client
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WESTERN REGION**

Project title/Titre du projet
**RADAR HILL
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Designed by/Concept par
LL

Drawn by/Dessiné par
MC

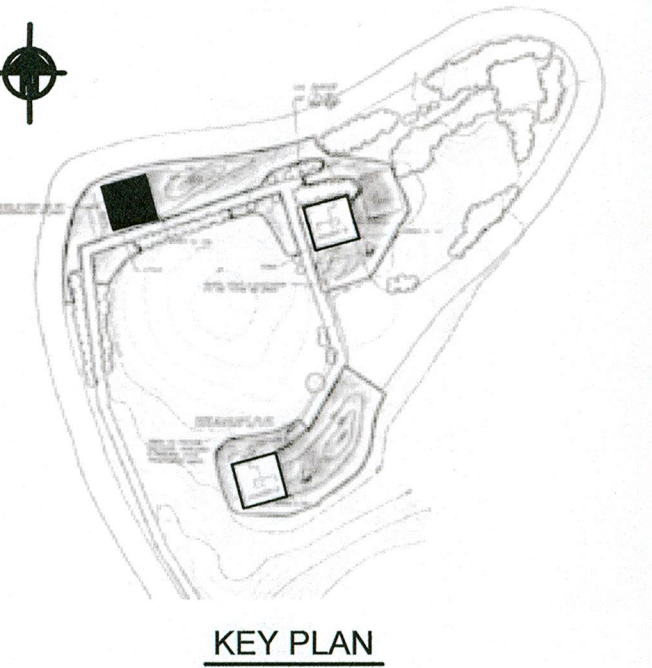
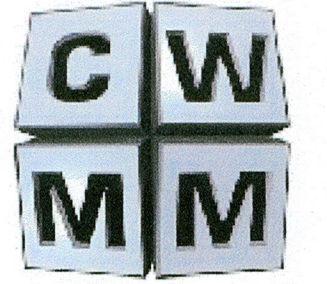
PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
Preetipal Paul

Drawing title/Titre du dessin
**MIDDLE NORTH EAST
PLATFORM PLANS**

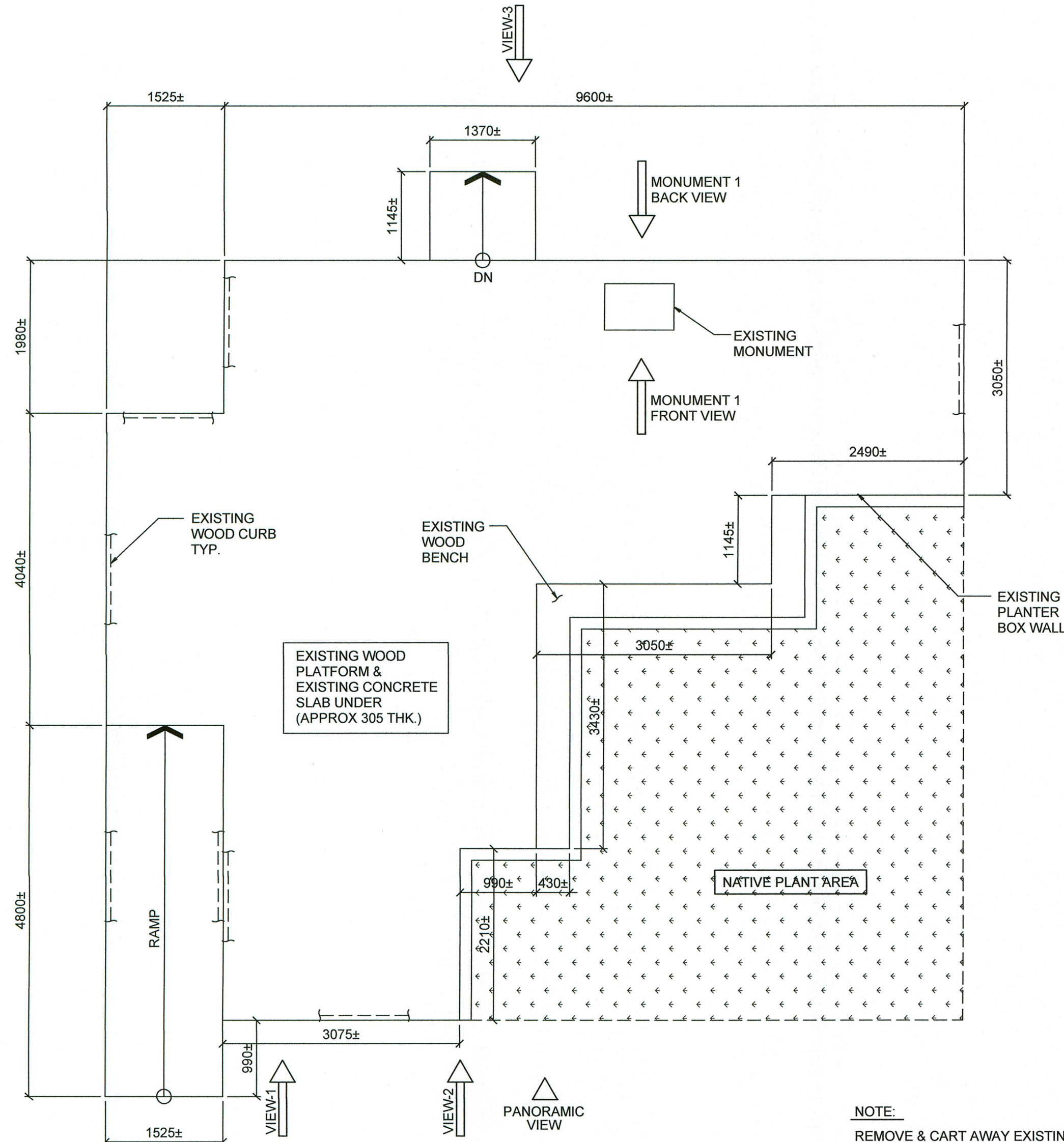
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Sheet/Feuille
S202

Revision no./
La Révision
no.

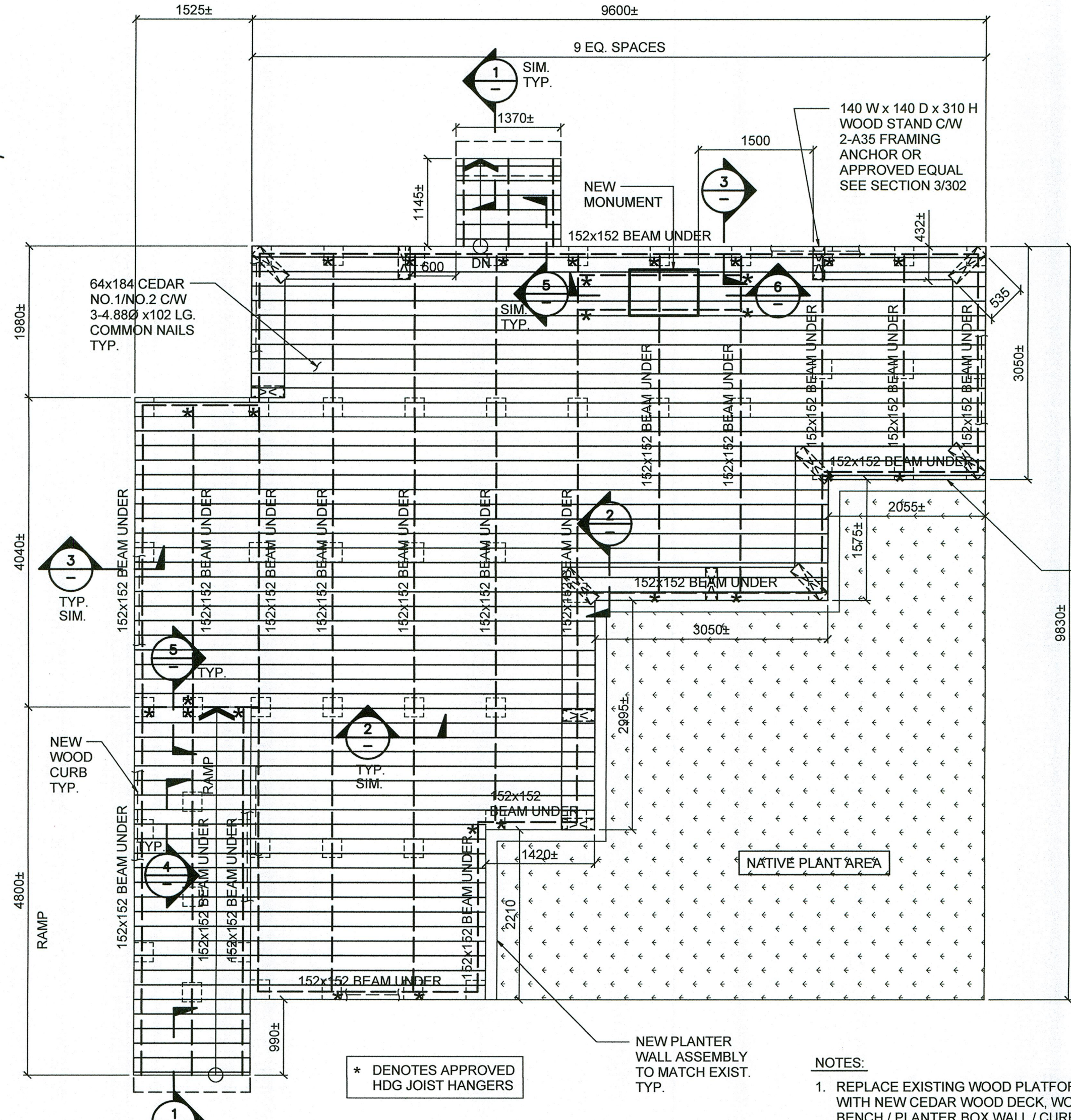
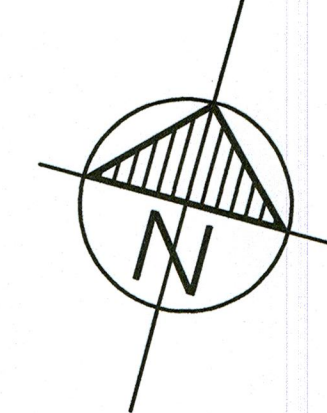


KEY PLAN



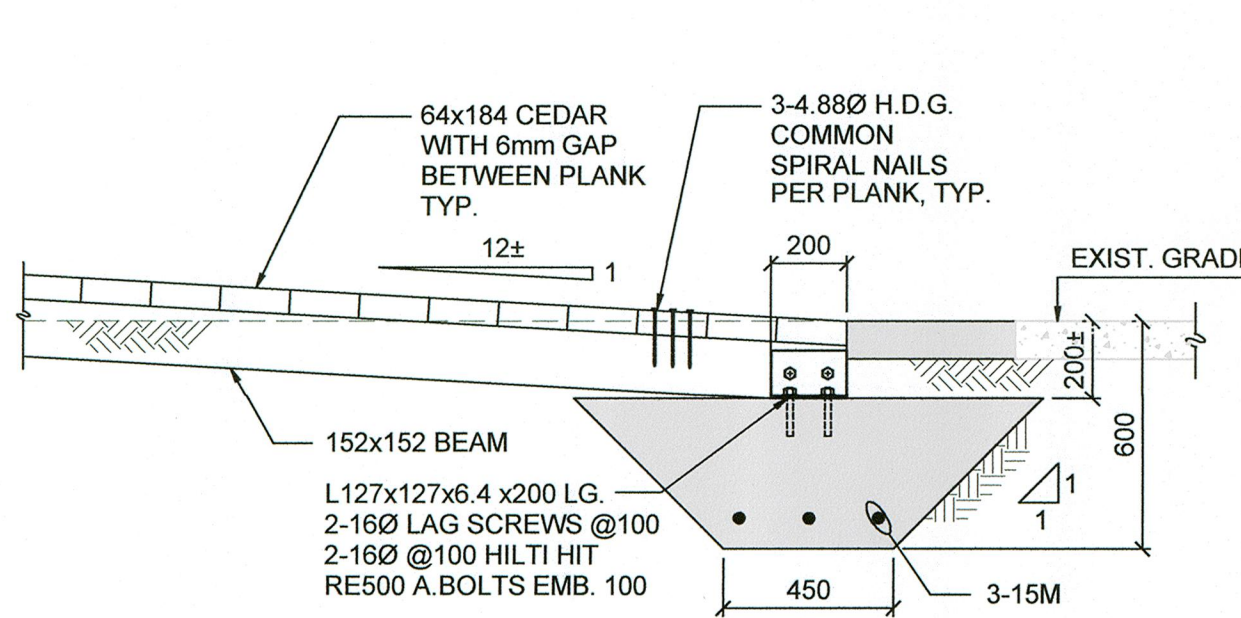
EXISTING LOWER NORTH EAST PLATFORM
1:50

NOTE:
REMOVE & CART AWAY EXISTING WOOD PLATFORM INCLUDING EXISTING MONUMENT & ALL FASTENERS

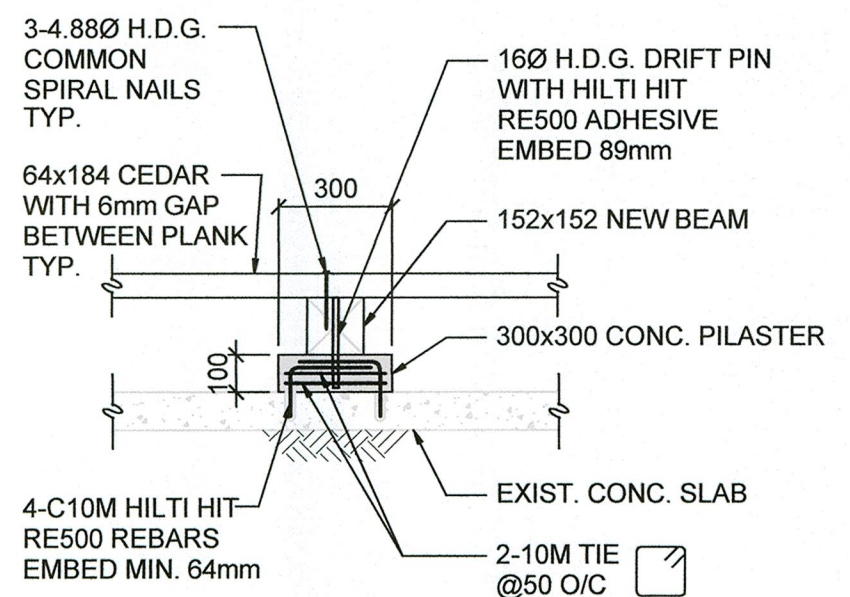


NEW LOWER NORTH EAST PLATFORM
1:50

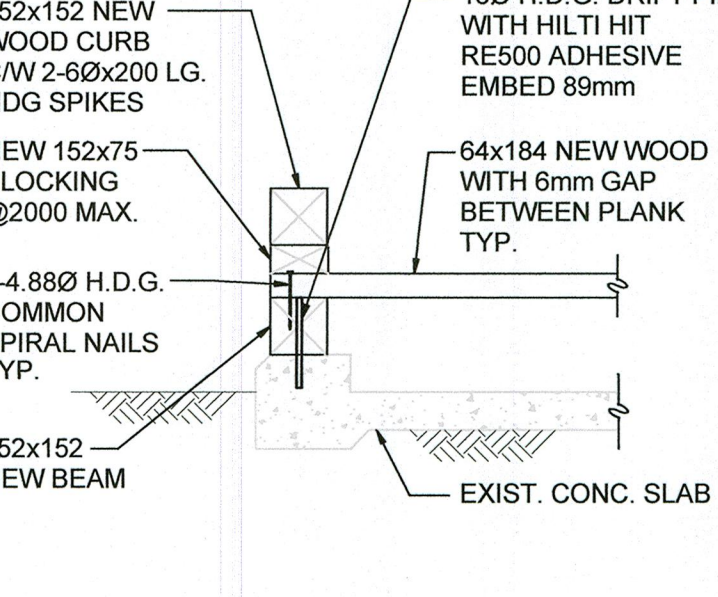
- NOTES:
1. REPLACE EXISTING WOOD PLATFORM WITH NEW CEDAR WOOD DECK, WOOD BENCH / PLANTER BOX WALL / CURB & 152X152 WOOD BEAM
 2. REFER TO SPECIFICATIONS FOR TIMBER GRADE
 3. ALL NAILS & CONNECTORS SHALL BE H.D.G.



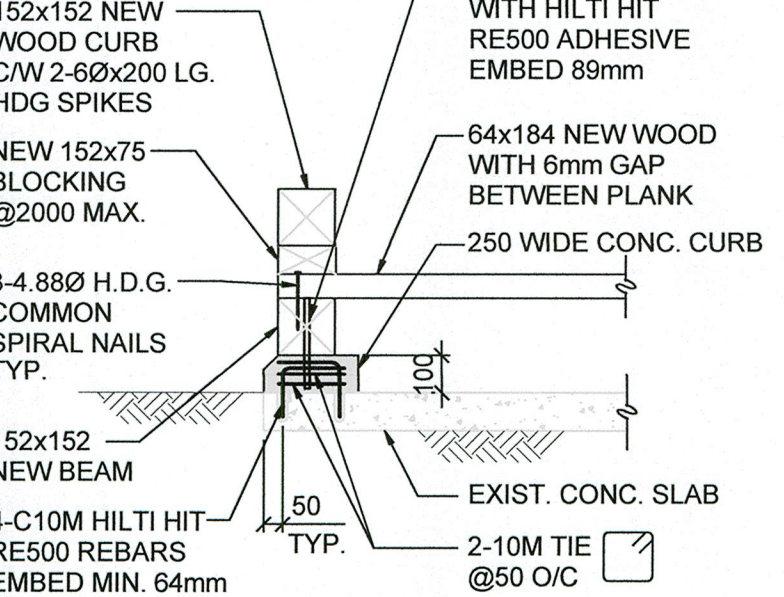
SECTION 1
1:20



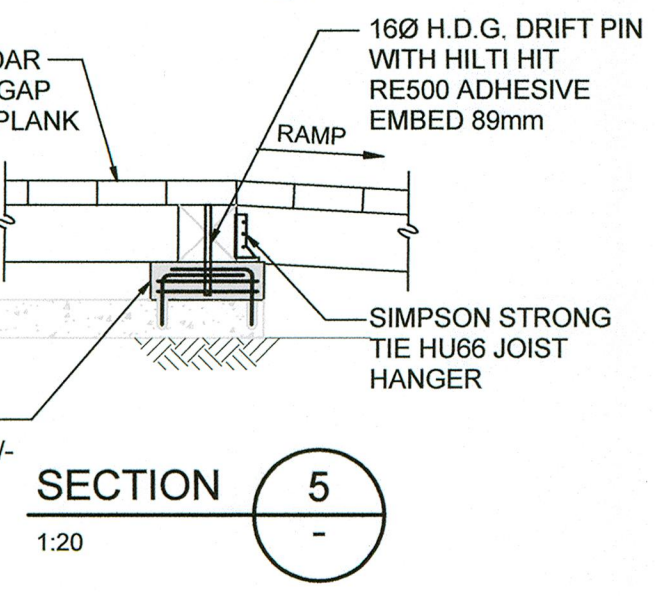
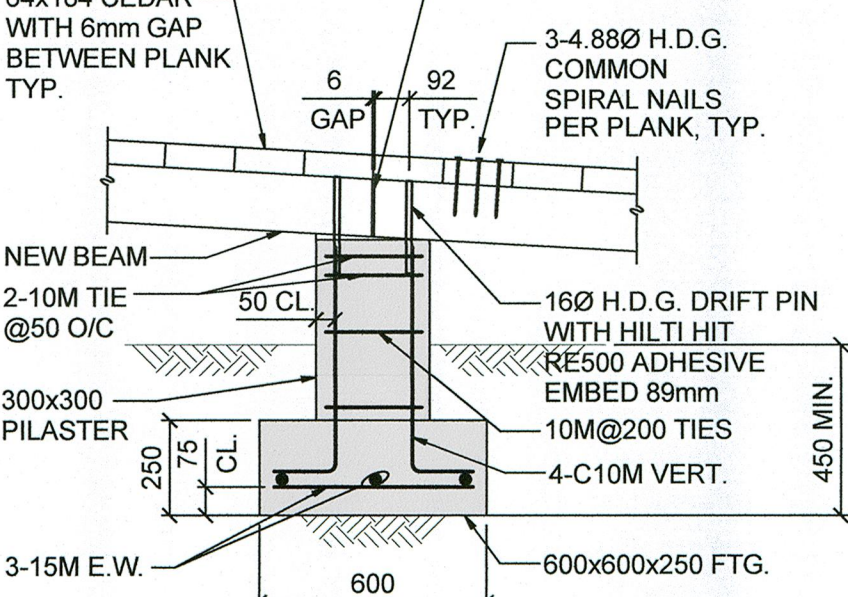
SECTION 2
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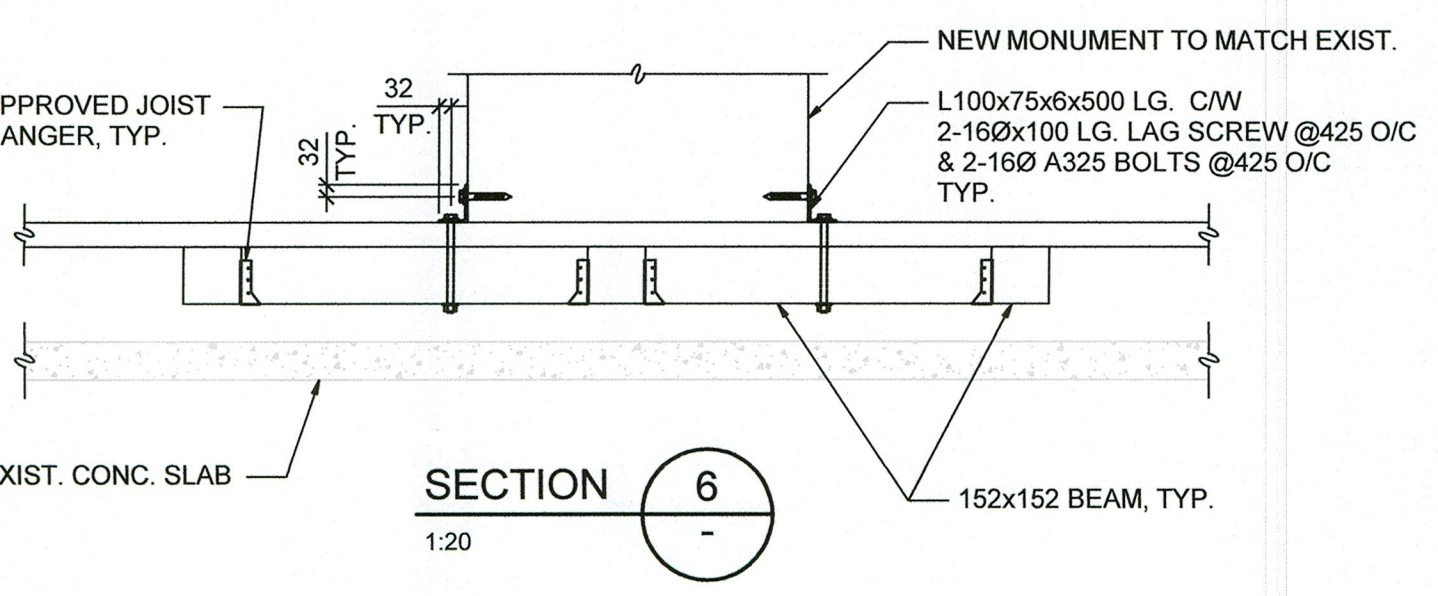
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1:20



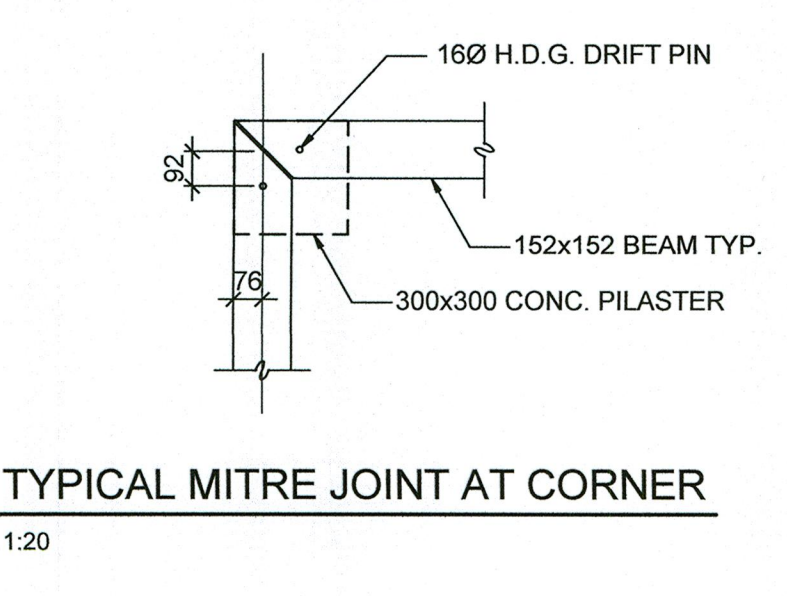
SECTION 4
1:20



SECTION 5
1:20



SECTION 6
1:20



TYPICAL MITRE JOINT AT CORNER
1:20

**PARKS CANADA
WESTERN REGION**

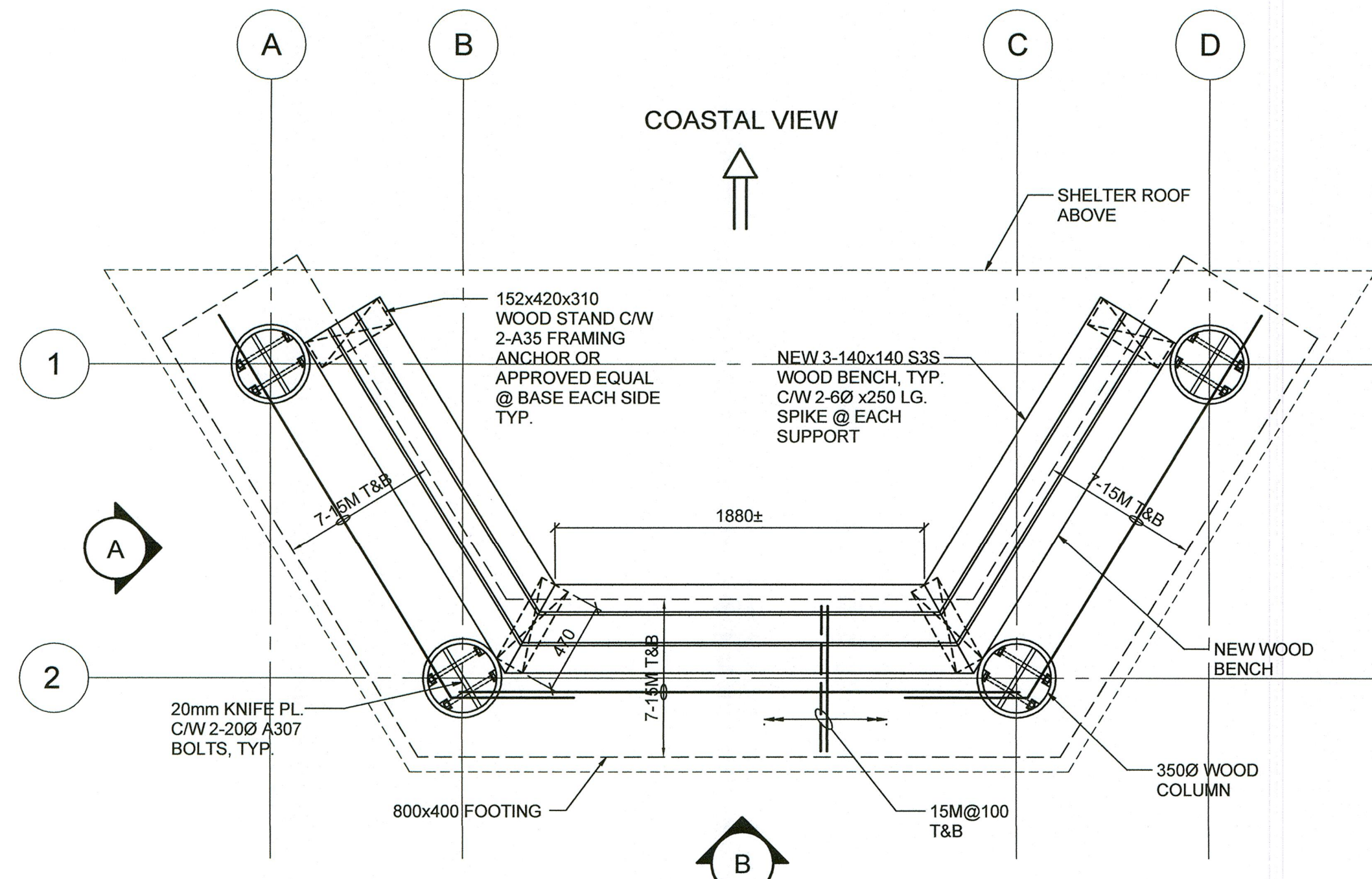
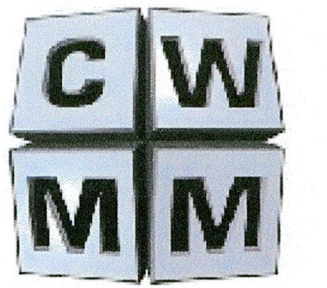
**RADAR HILL
VIEWPOINT SHELTER**

Consultant Signature Only
Designed by/Concept par LL
Drawn by/Dessiné par MC
PWGSC Project Manager/Administrateur de Projets TPSSG
TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Géraldine régionale, Services d'architecture et de génie, TPSSG
Preitpal Paul
Drawing Title/Titre du dessin

**LOWER NORTH WEST
PLATFORM PLANS**

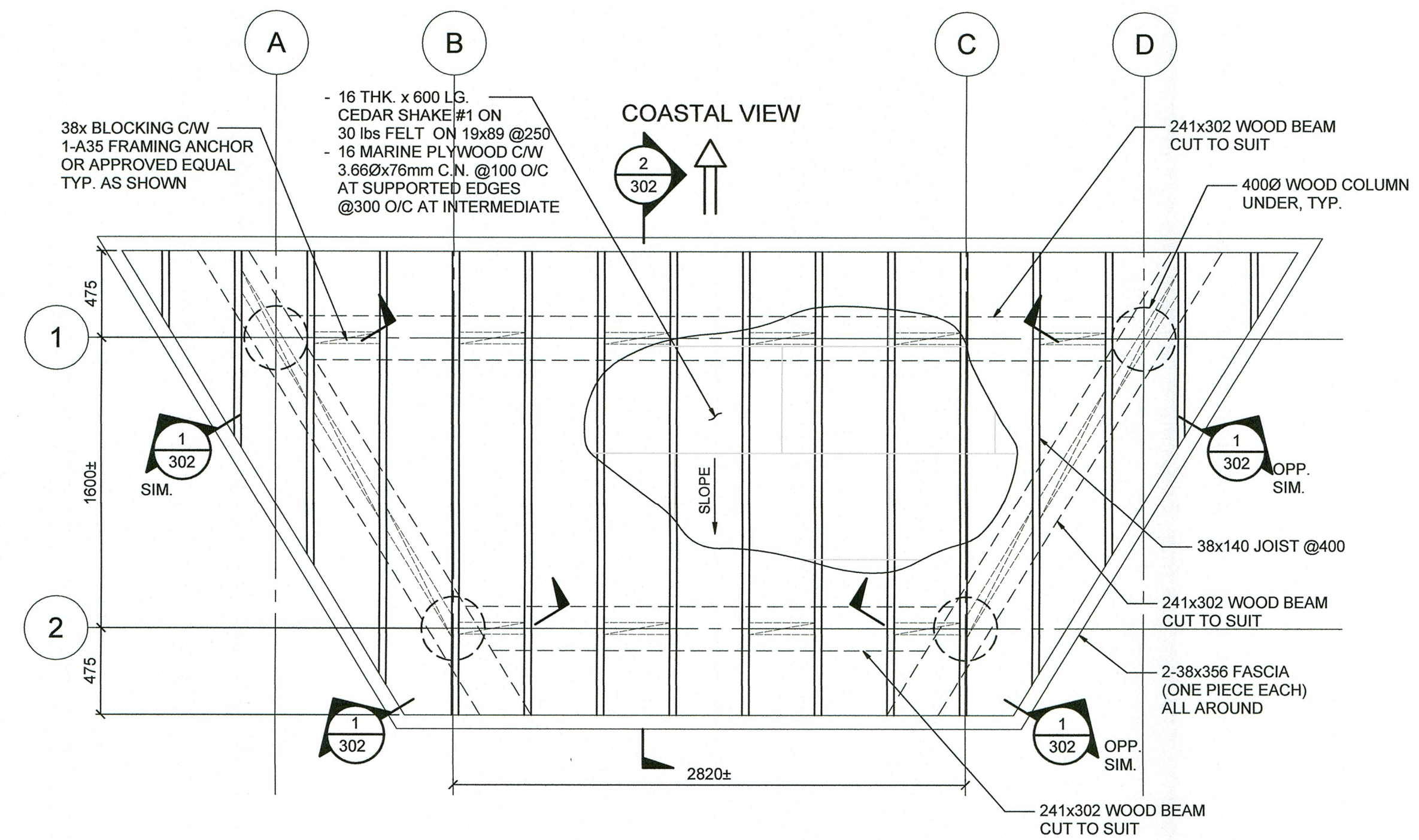
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R.073927.001
Sheet/Feuille
S203
Revision no./La Révision no.



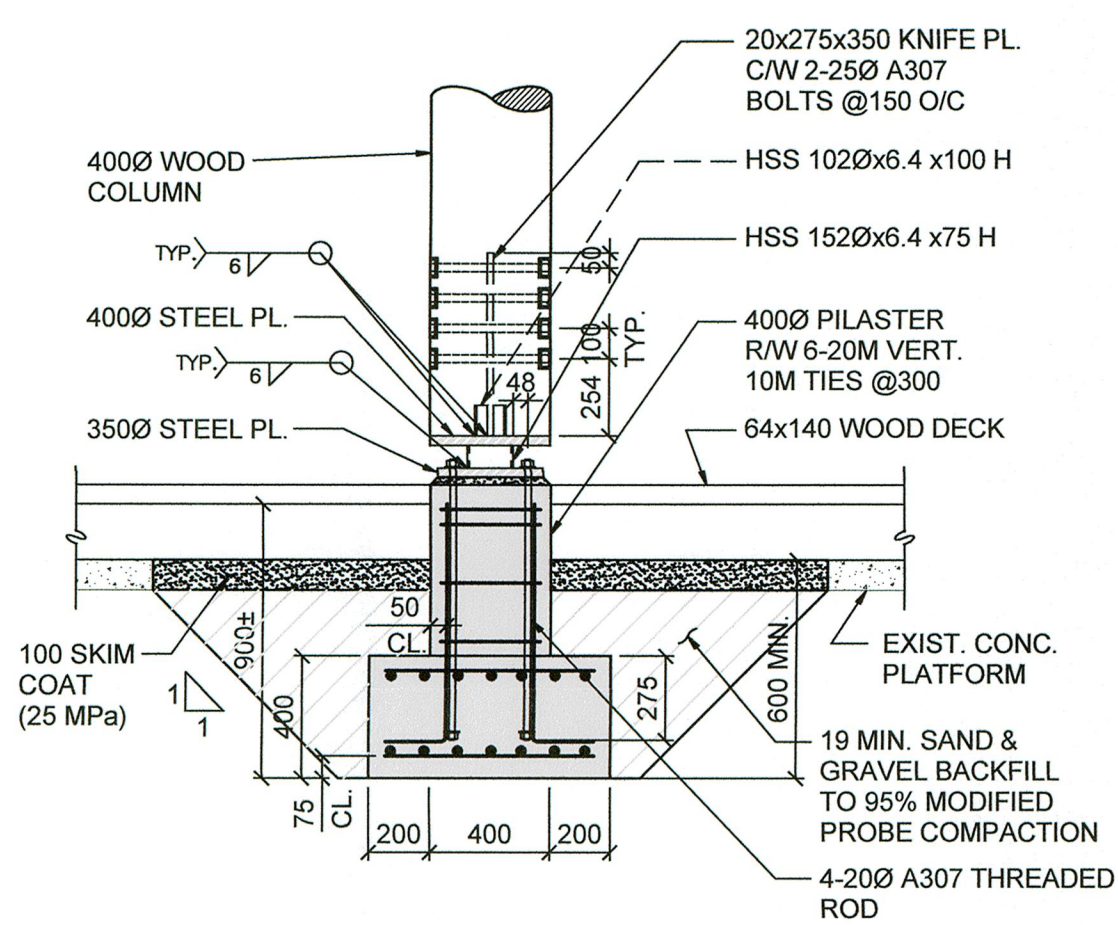


REFER TO SEC. 2/302 FOR WOOD BENCH TO WOOD STAND FASTENER AND BLOCKING DETAILS

FOUNDATION & GROUND FLOOR PLAN
1:25

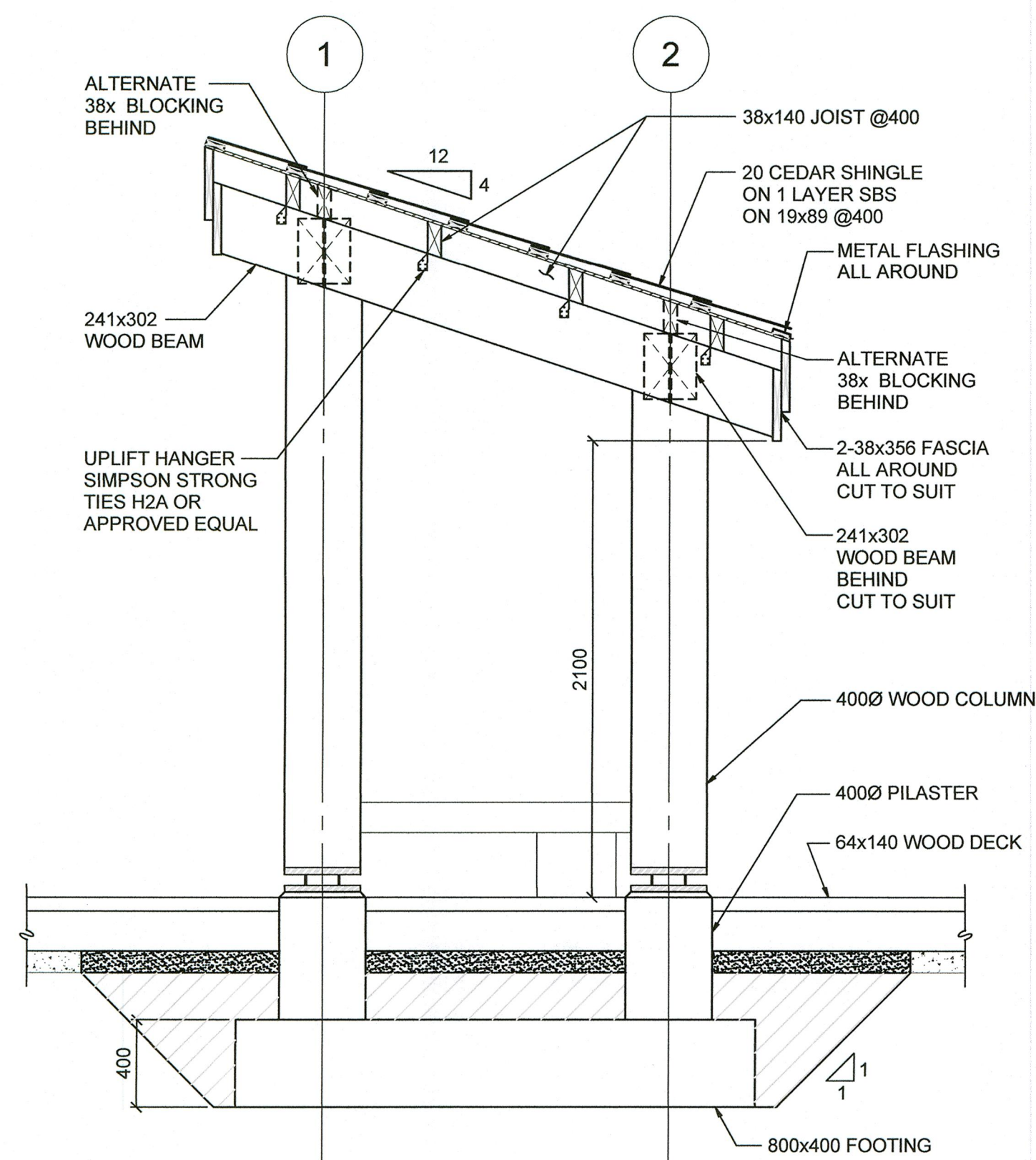


ROOF PLAN
1:25

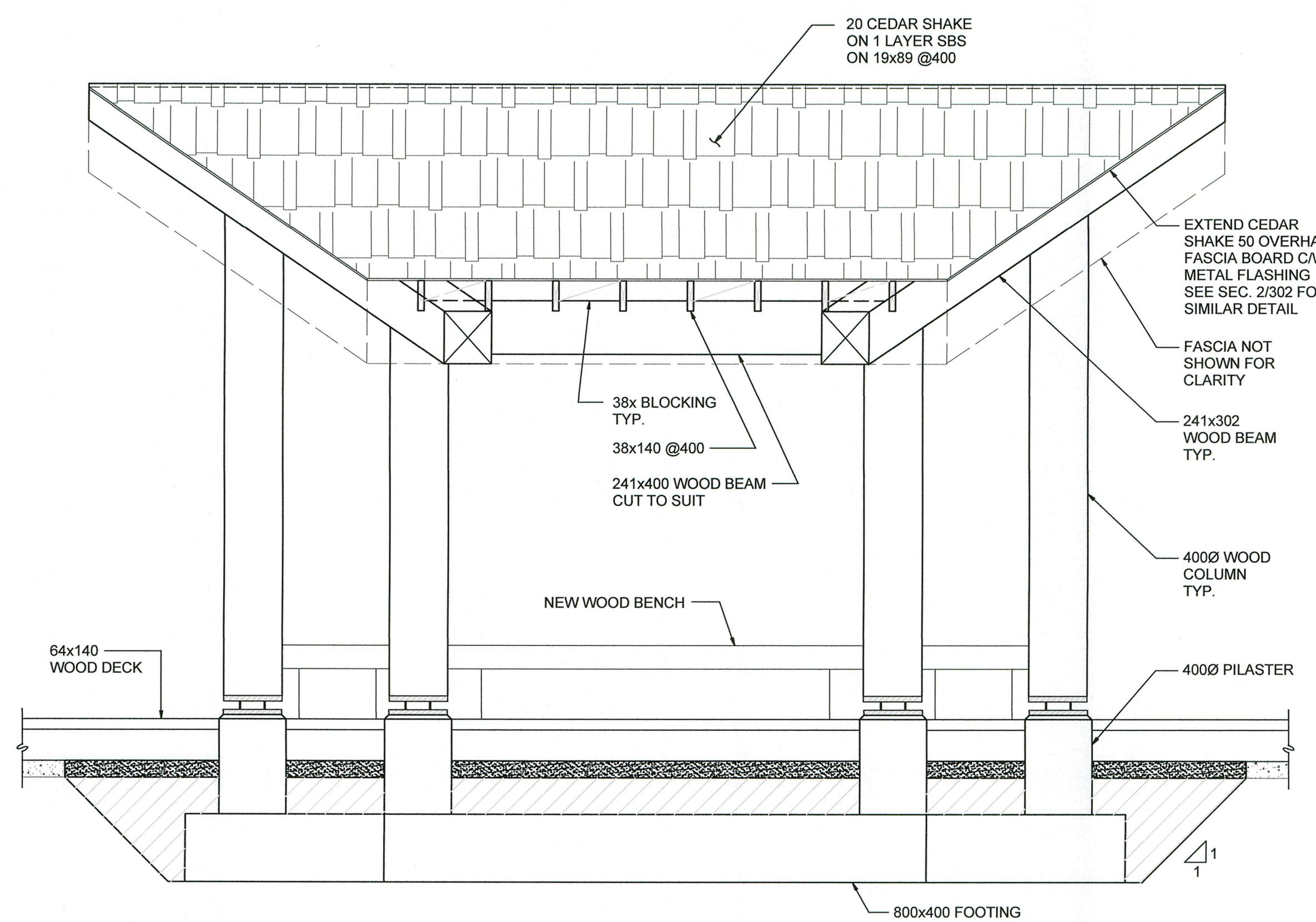


COLUMN BASE CONNECTION DETAIL
1:25

ROTATE TO SUIT LOCATION



SIDE VIEW A
1:25



NEW SHELTER BACK VIEW B
1:25

PROVIDE METAL FLASHING TO ROOF EDGE TO SUIT

0	ISSUED FOR TENDER	MAY 11 2015
Revision/Revisión	Description/Description	Date/Date

A	detail number / numéro de détail	A
B	source drawing no. / de dessin no.	B/C
C	detail on drawing no. / détail sur dessin no.	

Client/client

PARKS CANADA WESTERN REGION

Project title/Titre du projet

RADAR HILL VIEWPOINT SHELTER

Consultant Signature Only

Designed by/Concept par

Drawn by/Dessiné par

PWSSC Project Manager/Administrateur de Projets TPSSC

TOM DUNPHY

Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architectural et de génie, TPSSC

Freestyl Paul

Drawing title/Titre du dessin

SHELTER SECTIONS & DETAILS

Project No./No. du projet

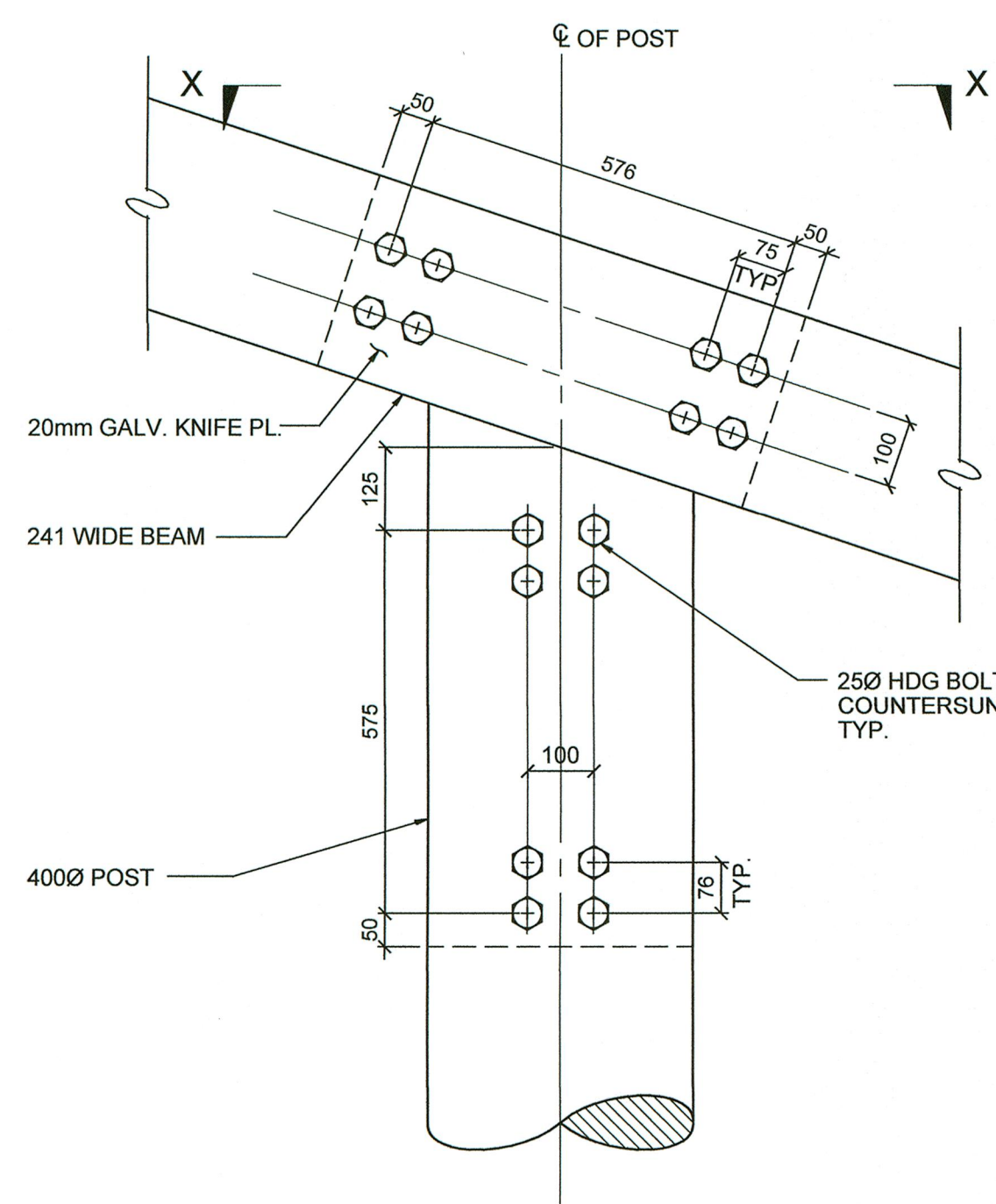
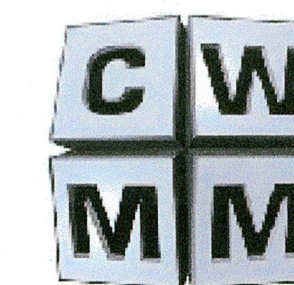
R.073927.001 S301

Revision no./La Révision no.

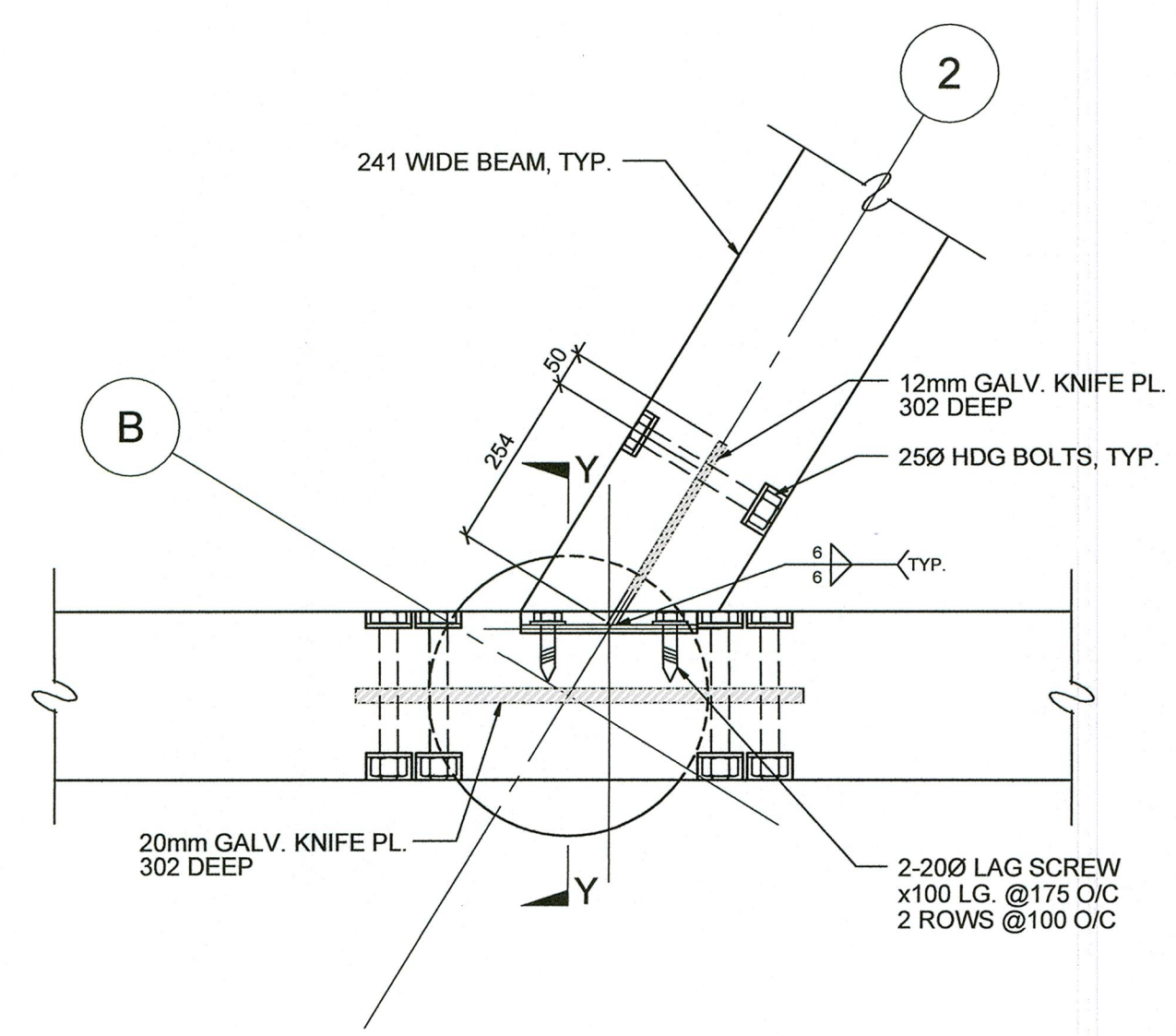
12186

PROFESSIONAL ENGINEER
L. K. S. LAM
MAY 11, 2015

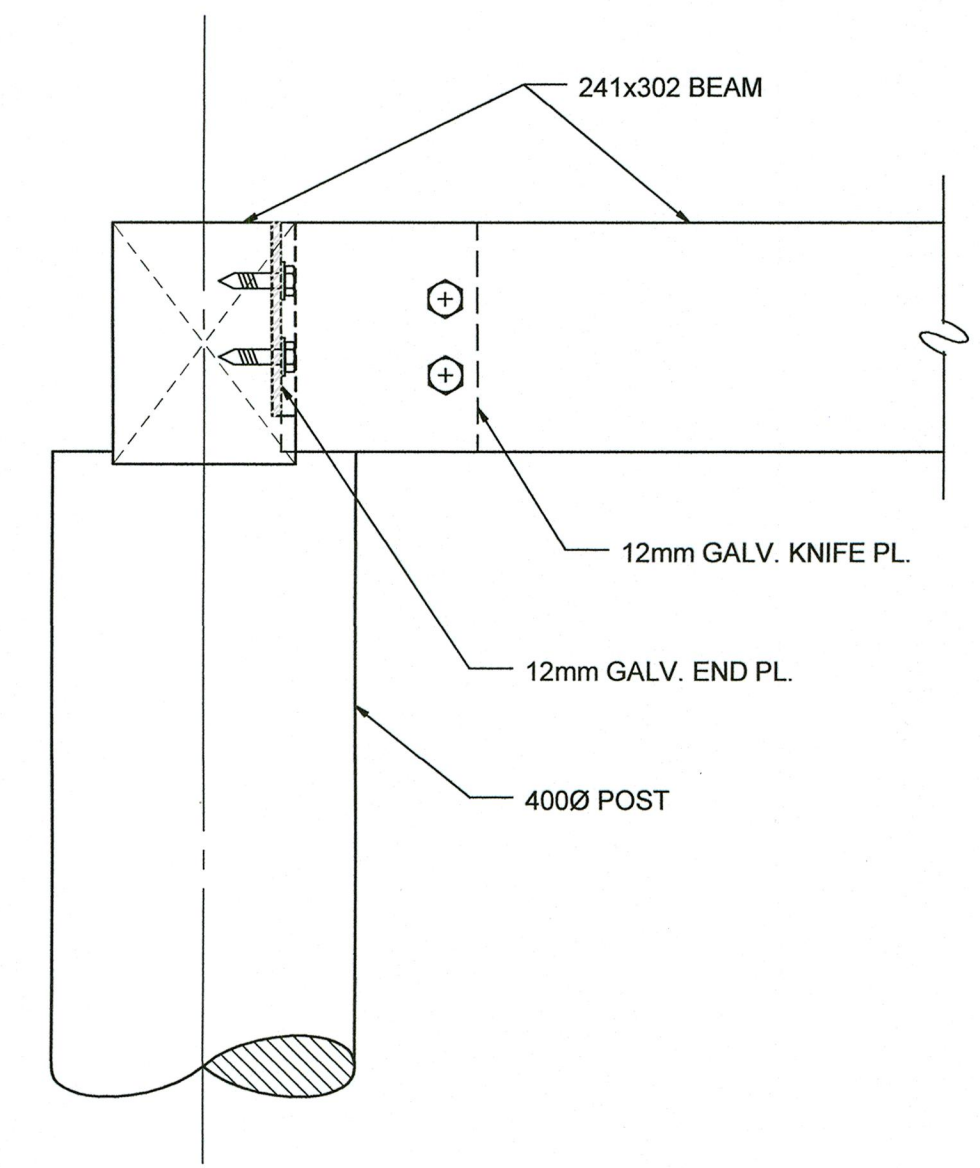




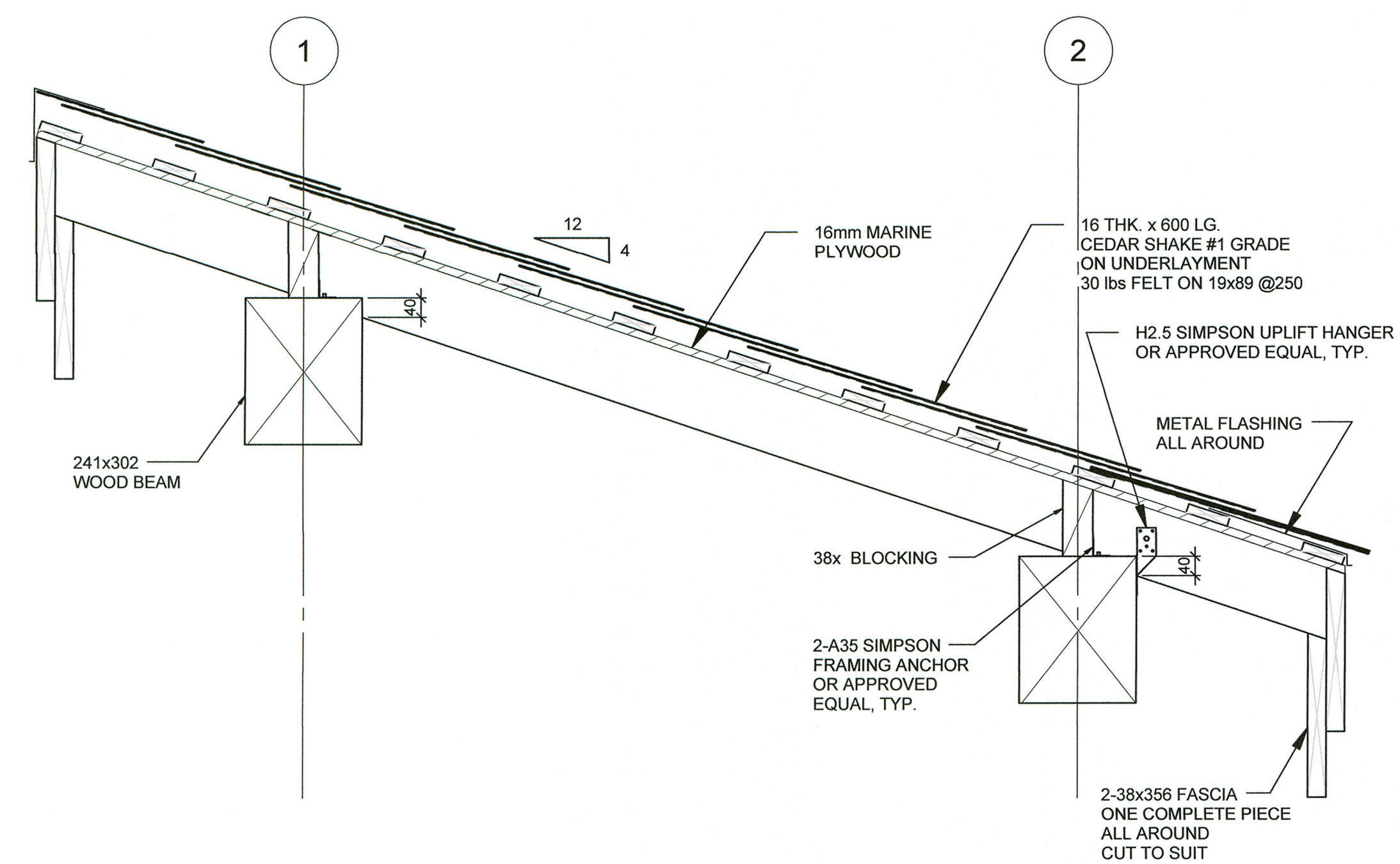
SECTION 1
1:10



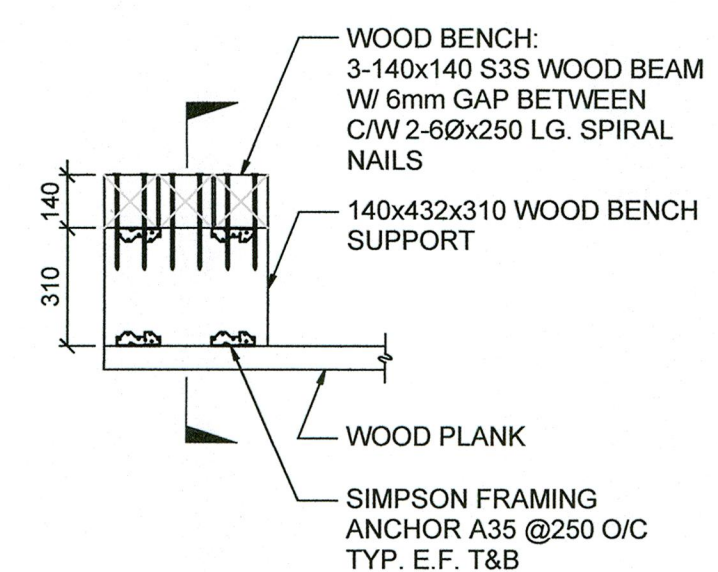
SECTION X - X
1:10



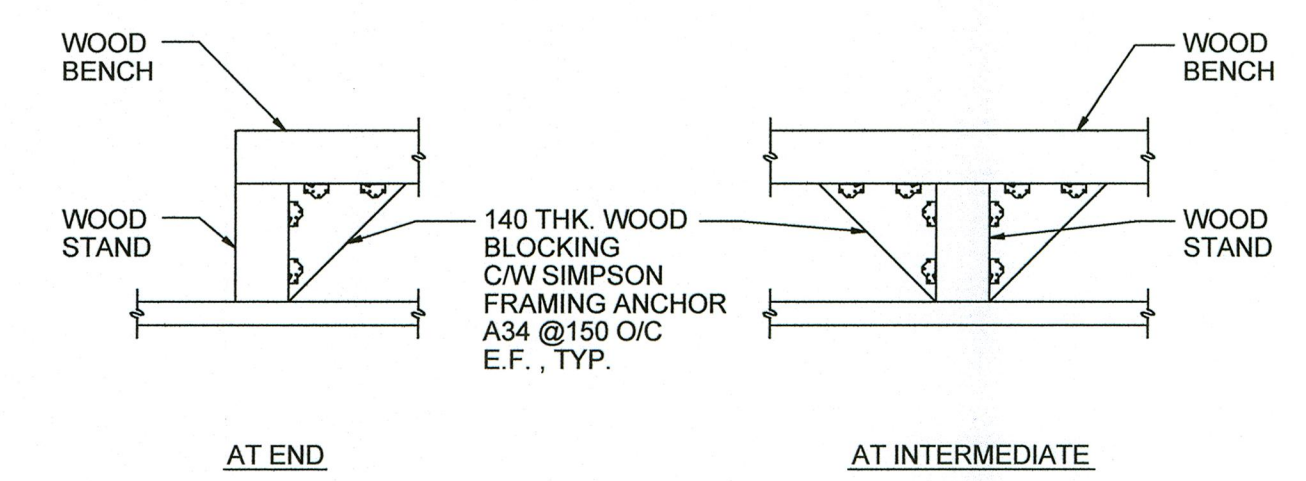
SECTION Y - Y
1:10



SECTION 2
1:10



SECTION 3
1:20



SECTION Z - Z
1:20

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	MAY 11 2015

A	detail number / numéro de détail	A
B	source drawing no. / de dessin no.	B
C	detail on drawing no. / détail sur dessin no.	C

Client/client
PARKS CANADA WESTERN REGION

Project title/Titre du projet
RADAR HILL VIEWPOINT SHELTER

Consultant Signature Only
Designed by/Concept par LL
Drawn by/Dessiné par MC
PWGSC Project Manager/Administrateur de Projets TPSCG
TOM DUNPHY
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSCG
Preetpal Paul

Drawing title/Titre du dessin
SECTIONS & DETAILS

Project No./No. du projet R.073927.001	Sheet/Feuille S302	Revision no./La Révision no.
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