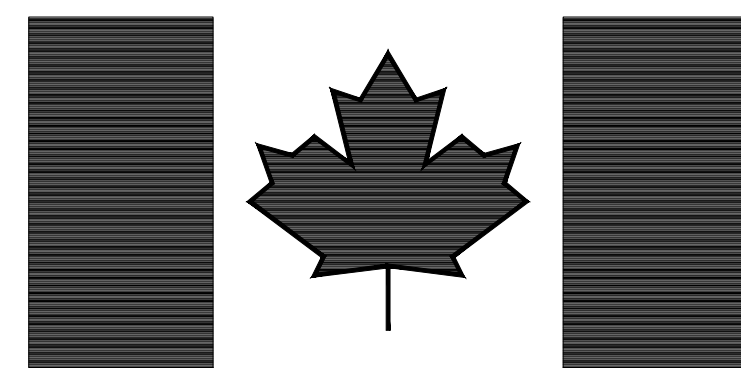




**McElhanney**

**McElhanney Consulting Services Ltd.**

for / pour



Parks Canada Agency  
Western and Northern  
Region

Parcs Canada  
Région de l'Ouest et du  
Nord

**ROCK CREEK CAMPGROUND  
& DAY USE AREA  
PHASE 01**

**GRASSLANDS NATIONAL PARK, SK**

**ISSUED FOR TENDER**

**JULY 2016**

# ROCK CREEK CAMPGROUND AND DAY USE AREA

## PHASE 1

### LANDSCAPE DRAWINGS:

- L1.1 EXISTING CONDITIONS AND DEMOLITION PLAN
- L2.1 OVERALL LAYOUT PLAN
- L2.2 DETAILED LAYOUT PLAN - CAMPSITES
- L2.3 DETAILED LAYOUT AND PLANTING PLAN - MISCELLANEOUS AREAS
- L3.1 EQUESTRIAN ACCESS GRADING PLAN
- L4.1 PLANTING PLAN
- L5.1 GREY WATER REDISTRIBUTION LAYOUT PLAN
- L6.1 TRAFFIC CONTROL SIGNAGE PLAN
- L7.1 PAVING, PLANTING AND RIP-RAP CHANNEL DETAILS
- L7.2 WATER STATION DETAILS
- L7.3 STRUCTURE DETAILS
- L7.4 FURNISHING DETAILS

### CIVIL DRAWINGS:

- C1.0 WATER SERVICE PLAN
- C1.1 WATER SERVICE PLAN
- C1.2 CIVIL GRADING PLAN
- C1.3 CIVIL DETAILS
- C1.4 CIVIL SERVICING DETAILS

### SITE ELECTRICAL DRAWINGS:

- E1.0 ELECTRICAL SITE PLAN & SINGLE LINE DIAGRAM
- E2.0 ELECTRICAL SITE PLAN TRANSFORMER 1&2
- E3.0 ELECTRICAL SITE PLAN TRANSFORMER 3&4
- E4.0 ELECTRICAL SPECIFICATIONS AND PANEL SCHEDULES
- E5.0 ELECTRICAL 30A AND 50A RV PEDESTALS, DETAILS AND WIRING DIAGRAMS
- E6.0 ELECTRICAL KIOSK AND TRENCH DETAILS
- E7.0 ELECTRICAL SUMMER KITCHEN DETAILS


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02	APR.15.16	ISSUED FOR 95% CLIENT REVIEW	DD	K/W/GH
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DD	K/W/GH

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	<div><div><div>Parks Canada Agency Western and Northern Region</div><div>L'Agence Parcs Canada Ouest et Nord du Canada</div></div></div>
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Consultant's Name Nom de l'expert-conseil	<div></div>
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Project title/Titre du projet	ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK
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Drawing title/Titre du dessin	LIST OF DRAWINGS
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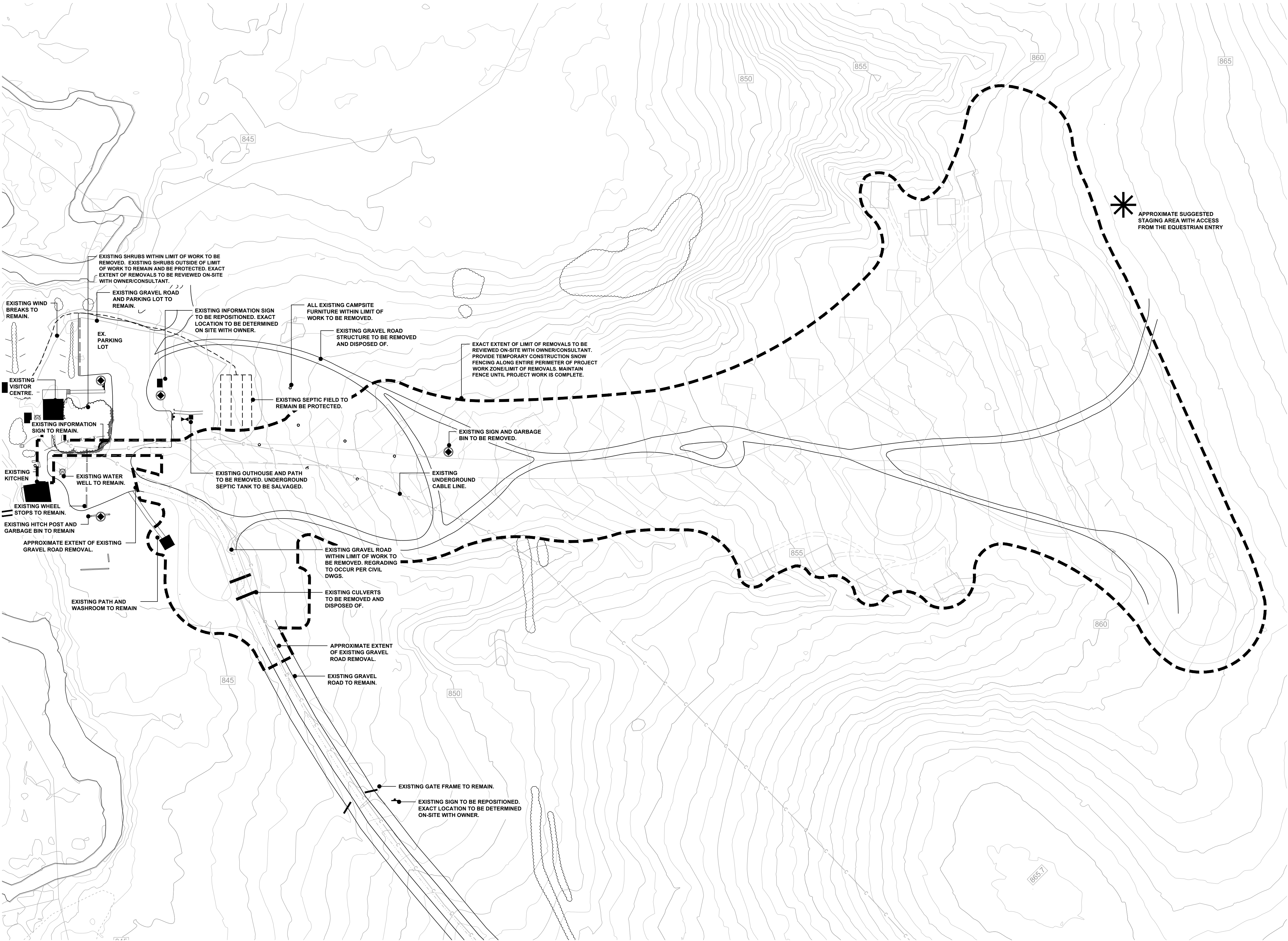
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Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT
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Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Project No./No. du projet		Asset No./No. du bien	Sheet No./ No. de la feuille
Drawing Reference No./No. de référence du dessin 2711 16012 - 00			

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July 21, 2016 14:41:30  
Plotter:



#### LEGEND

--- PROJECT LIMIT

#### NOTES:

- COORDINATE ALL EXISTING UTILITY REMOVALS AND MODIFICATIONS WITH CIVIL DRAWINGS.
- ALL UTILITY LOCATIONS APPROXIMATE. ALL UTILITIES MUST BE LOCATED IN FIELD PRIOR TO ANY EXCAVATION. CONTACT SASKATCHEWAN 1st CALL (1-866-828-4888), ENSURE ALL UTILITY INSTALLATION HAVE BEEN COMPLETED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- ALL EXISTING VEGETATION AND INFRASTRUCTURE, OUTSIDE OF LIMIT OF WORK TO REMAIN AND BE PROTECTED.
- ALL ITEMS AND MATERIALS NOTED AS 'REMOVED' TO BE REMOVED AND DISPOSED OF OFF SITE.
- STRIP ALL SOD AND TOP LEVEL VEGETATION - REMOVE AND DISPOSE OF OFF-SITE. STRIP TOPSOIL TO AN APPROXIMATE DEPTH OF 50mm - STOCKPILE TOPSOIL FOR REUSE. LOCATION OF STOCKPILE TO BE REVIEWED ON-SITE WITH OWNER. STRIPPING EXTENTS TO BE REVIEWED ON-SITE WITH OWNER/CONSULTANT PRIOR TO WORK COMMENCING. REVIEW QUALITY OF EXISTING SALVAGED TOPSOIL WITH OWNER & CONSULTANT PRIOR TO DISTRIBUTION AMONGST THE SITE.
- ALL ITEMS AND MATERIALS NOTED AS 'SALVAGED' TO BE REMOVED AND STORED AT A LOCATION DIRECTED BY THE OWNER. SALVAGE LOCATION TO BE ADJACENT PROJECT SITE.
- ALL ITEMS AND MATERIALS NOTED 'TO REMAIN' TO BE LEFT IN PLACE AND PROTECTED THROUGH DURATION OF CONSTRUCTION.
- SOME ITEMS NOTED AS 'REMOVED' MAY ALREADY BE GONE AT TIME OF CONSTRUCTION. REVIEW ALL EXISTING ELEMENTS WITH OWNER PRIOR TO CONSTRUCTION.


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01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DD	KW/GH

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client  Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Consultant's Name Nom de l'expert-conseil
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Project title/Titre du projet <b>ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01</b> GRASSLANDS NATIONAL PARK, SK
---

Drawing title/Titre du dessin
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#### EXISTING CONDITIONS AND DEMOLITION PLAN

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DD/NG	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT		
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Parks Canada Responsible Officer/Agent Responsable Parks Canada	Parks Canada Project Manager/Administrateur de Projets Parks Canada
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Drawing Reference No./No. de référence du dessin 2711 16012 - 00	<b>L1.1</b>
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1  
L1.1

#### EXISTING CONDITION AND DEMOLITION PLAN

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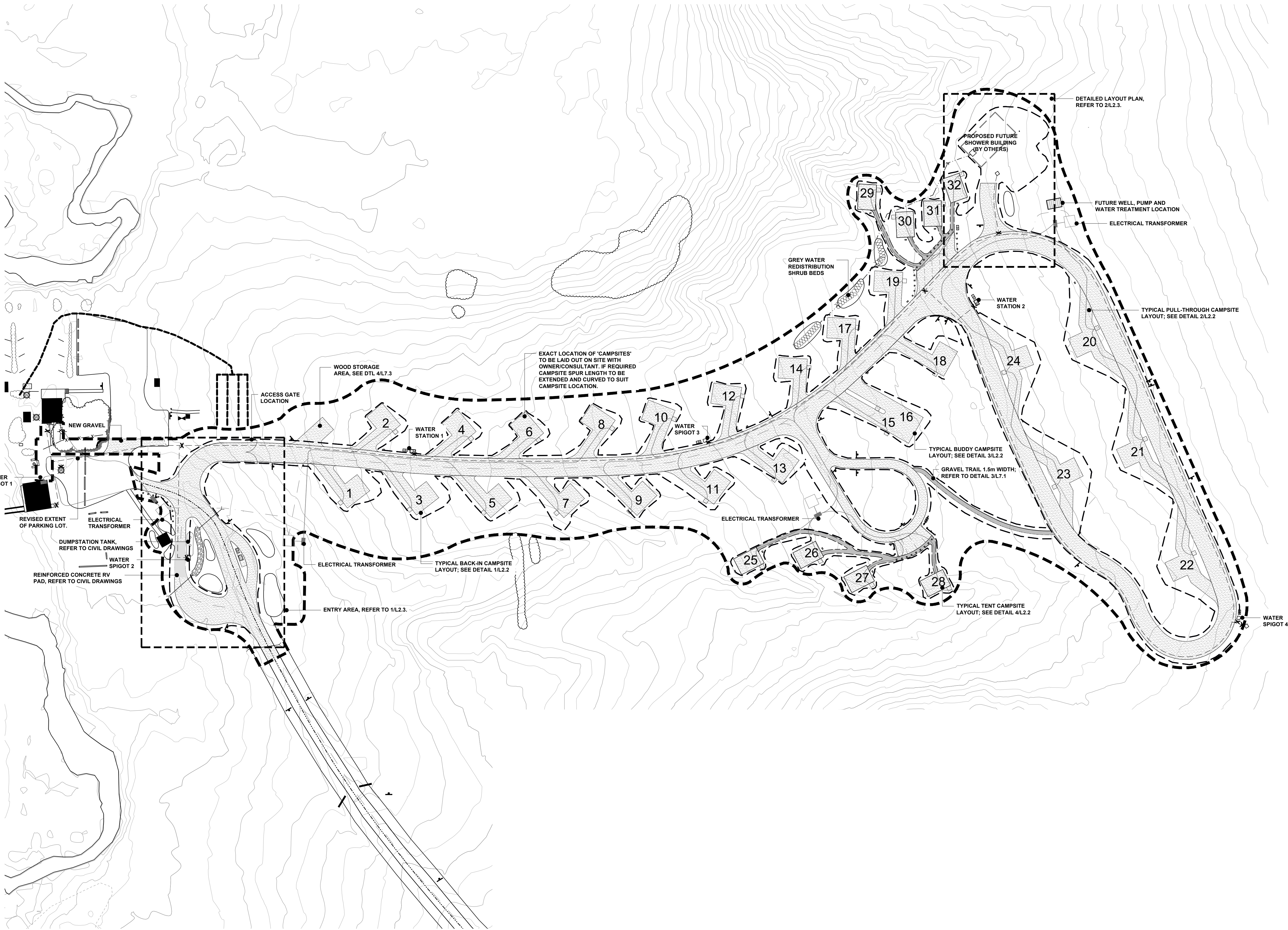
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NOT FOR CONSTRUCTION



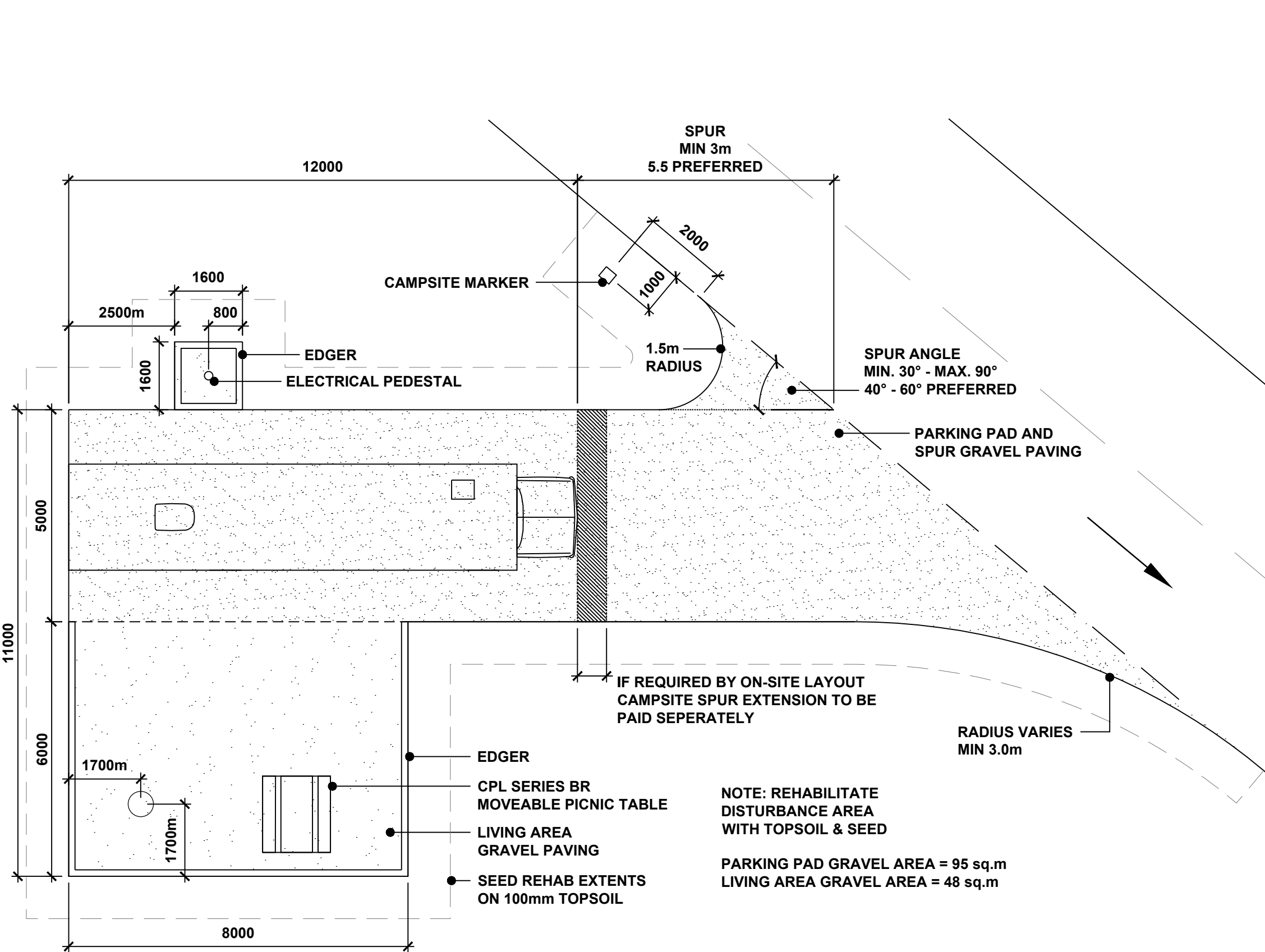
- LEGEND**
- APPROXIMATE LIMIT OF DISTURBANCE
  - PROJECT LIMIT
  - GRAVEL TRAIL 1.5m WIDTH; REFER TO DTL 4/L7.1. EXACT LAYOUT TO BE REVIEWED & APPROVED BY OWNER/CONSULTANT PRIOR TO INSTALLATION.
  - GRAVEL ROADWAY; REFER TO CIVIL DRAWINGS.
  - ACCESS GATE, REFER TO DTL 1/L7.3
  - CAMPSITE NUMBER
  - WATER SPIGOT LOCATION, REFER TO CIVIL AND DTL 4/L7.4
  - WATER STATION LOCATION, REFER TO L7.2
  - WASTE - RECEPTACLE CONTAINER, REFER TO DTL 2/L7.4
  - BOLLARD, REFER TO DTL 1/L7.4
  - TRAFFIC SIGN

- NOTES:**
- REFER TO SHEET L2.2 FOR DETAILED CAMPSITE STYLE AND LAYOUT.
  - REFER TO SHEET L2.3 FOR MISCELLANEOUS DETAILED LAYOUT PLANS.
  - LAYOUT OF ROAD, SITES, LAYBYS ETC. TO BE SURVEYED IN FIELD. SOME DIMENSIONS ARE PROVIDED FOR CROSS-REFERENCE. CONSULTANT WILL PROVIDE CAD FILE FOR CONTRACTOR USE. ALL LAYOUT TO BE REVIEWED ON SITE w/ CONSULTANT AND OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION.
  - ALL CURVES TO BE SMOOTH AND CONTINUOUS. ALL ARCS TO INTERSECT AT TANGENTS.
  - ALL UTILITIES MUST BE LOCATED IN FIELD PRIOR TO ANY EXCAVATION. ENSURE ALL UTILITY INSTALLATION HAVE BEEN COMPLETED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
  - ALL FURNISHINGS INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
  - SHIM ALL FURNISHINGS TO LEVEL WHERE NECESSARY.
  - ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
  - DO NOT SCALE FROM DRAWINGS.
  - EXACT CAMPSITE LAYOUT & LOCATIONS TO BE COORDINATED/REVIEWED ON-SITE WITH CONSULTANT AND OWNER REPRESENTATIVE.

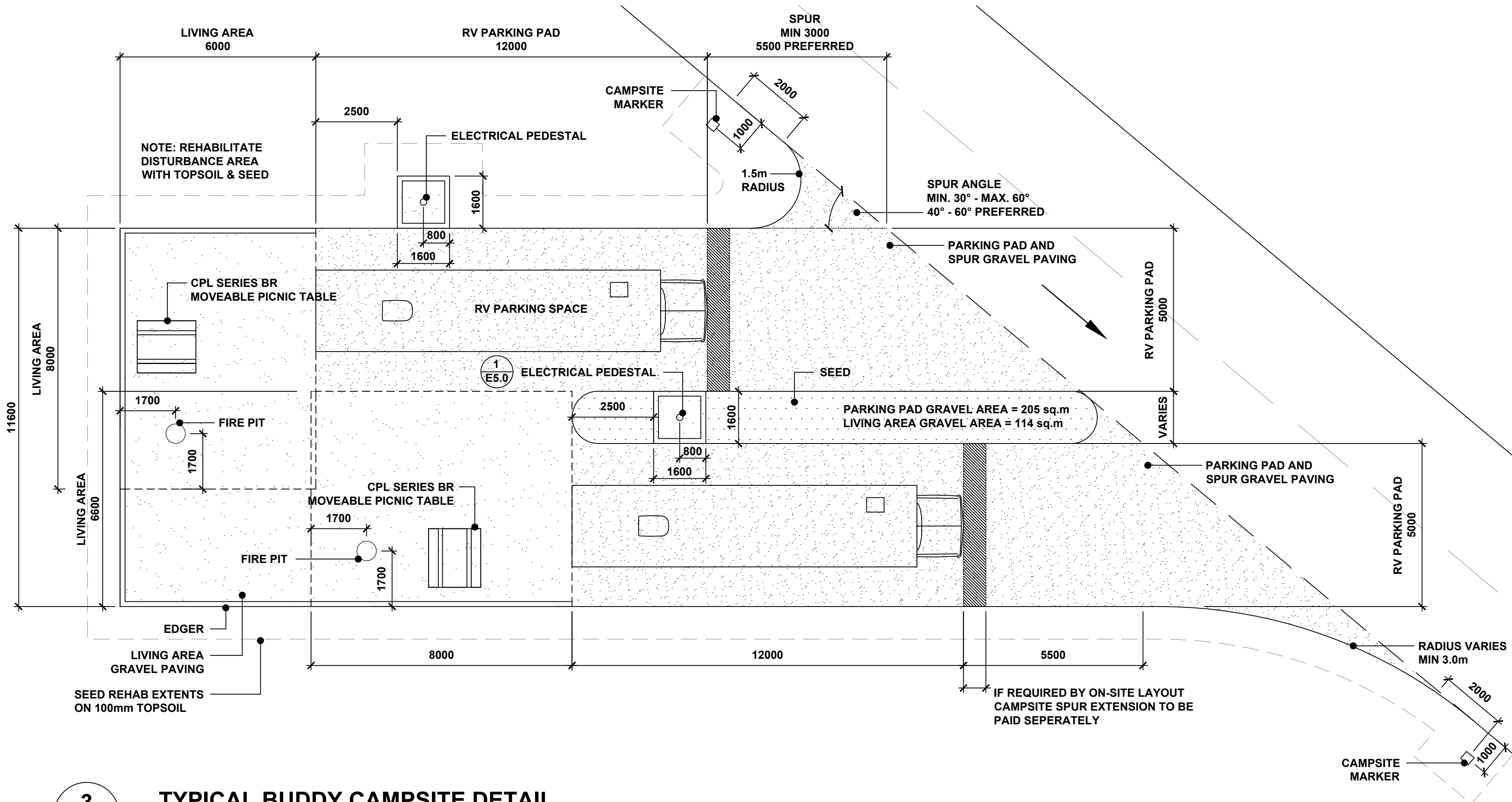
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01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DD	KW/GH	
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Revision / Revision					
Consultant's Stamp Sceau de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur		
Client/client					
 Parks Canada Agency Western and Northern Region			L'Agence Parcs Canada Ouest et Nord du Canada		
Consultant's Name Nom de l'expert-conseil					
 <b>McElhanny</b>					
Project title/Titre du projet					
ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK					
Drawing title/Titre du dessin					
OVERALL LAYOUT PLAN					
Surveyed by/Agenté par N/A		Drawn by/Dessiné par DD/NG		Date/Date JUL 21 2016	
Designed by/Concept par GH		Reviewed by/Revisé par KW/GH		Scale/Echelle AS SHOWN	
Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT					
Client Acceptance/Acceptation du client			Approved by/Approuvé par		
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Project No./No. du projet		Asset No./No. du bien		Sheet No / No. de la feuille	
Drawing Reference No./No. de référence du dessin		2711 16012 - 00		L2.1	



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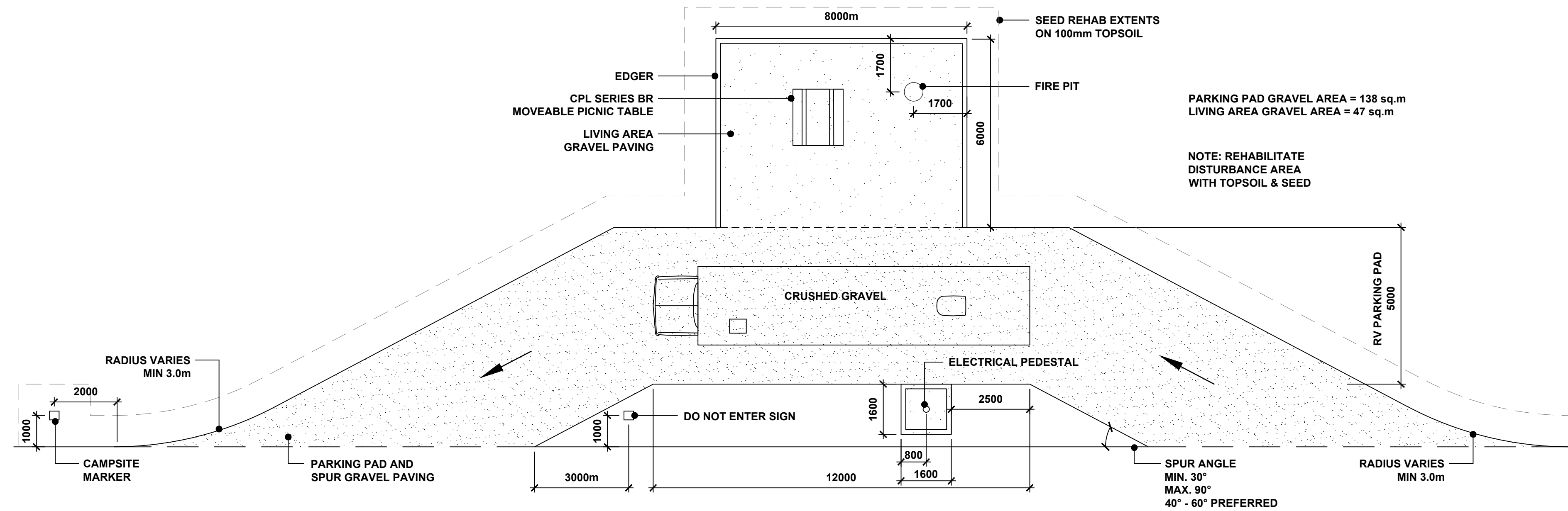
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L2.2  
SCALE 1:100  
TYPICAL BACK-IN CAMPSITE DETAIL



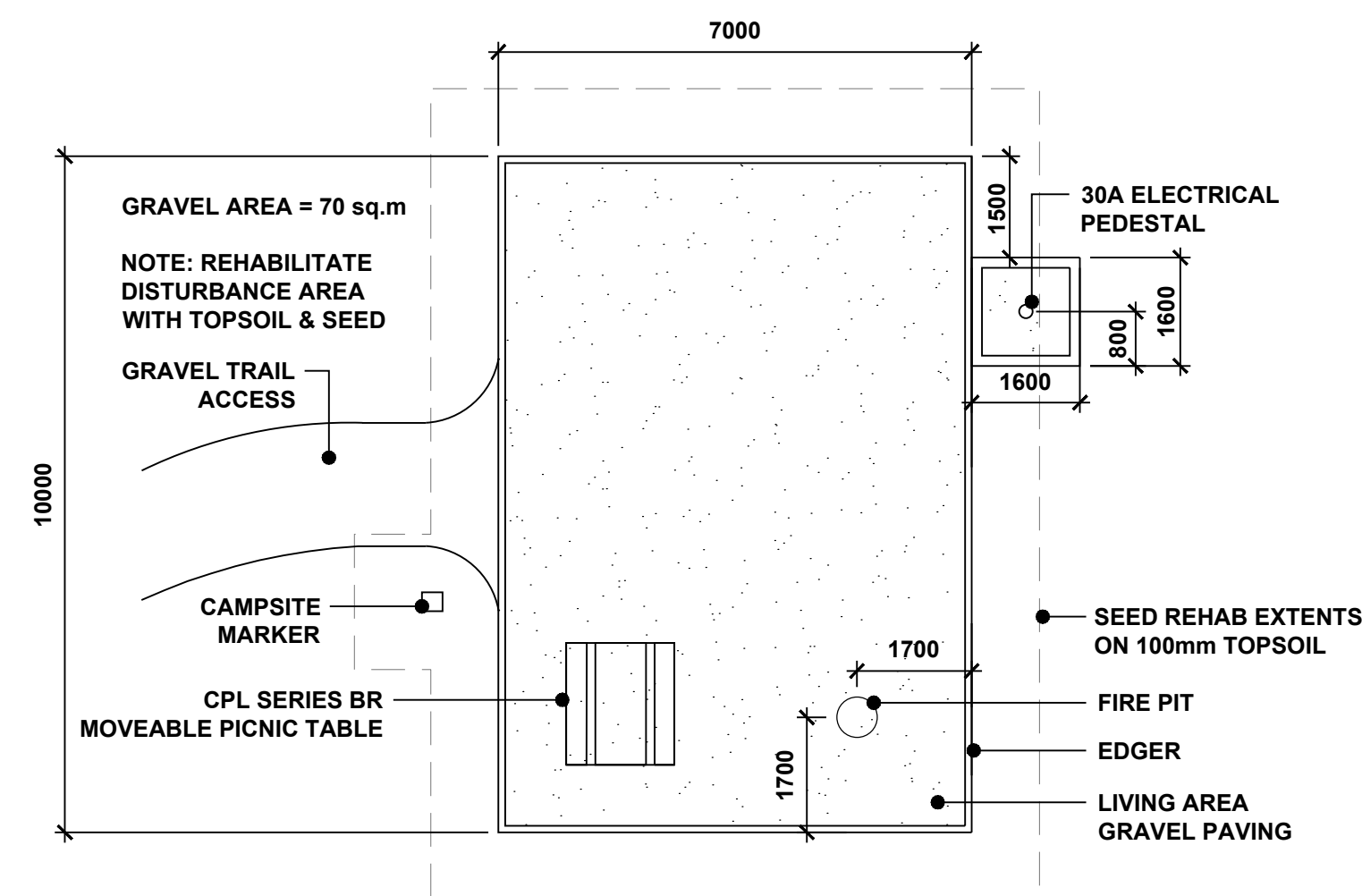
3  
L2.2  
SCALE 1:100  
TYPICAL BUDDY CAMPSITE DETAIL

LEGEND

- CAMPSITE MARKER; REFER TO DTL 9/L7.4
- FIRE PIT; REFER TO DTL 3/L7.4
- PICNIC TABLE; REFER TO DTL 8/L7.4
- RV PEDESTAL; REFER TO ELECTRICAL
- EDGER; REFER TO DTL 5/L7.1
- PARKING PAD GRAVEL PAVING; REFER TO DTL 1/L7.1
- LIVING AREA GRAVEL PAVING; REFER TO DTL 2/L7.1



2  
L2.2  
SCALE 1:100  
TYPICAL PULL-THROUGH CAMPSITE DETAIL



4  
L2.2  
SCALE 1:100  
TYPICAL TENT CAMPSITE DETAIL

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Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Consultant's Name  
Nom de l'expert-conseil



Project title/Titre du projet  
**ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01**  
GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin

**DETAILED LAYOUT PLANS  
- CAMPSITES**

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DD/NG	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

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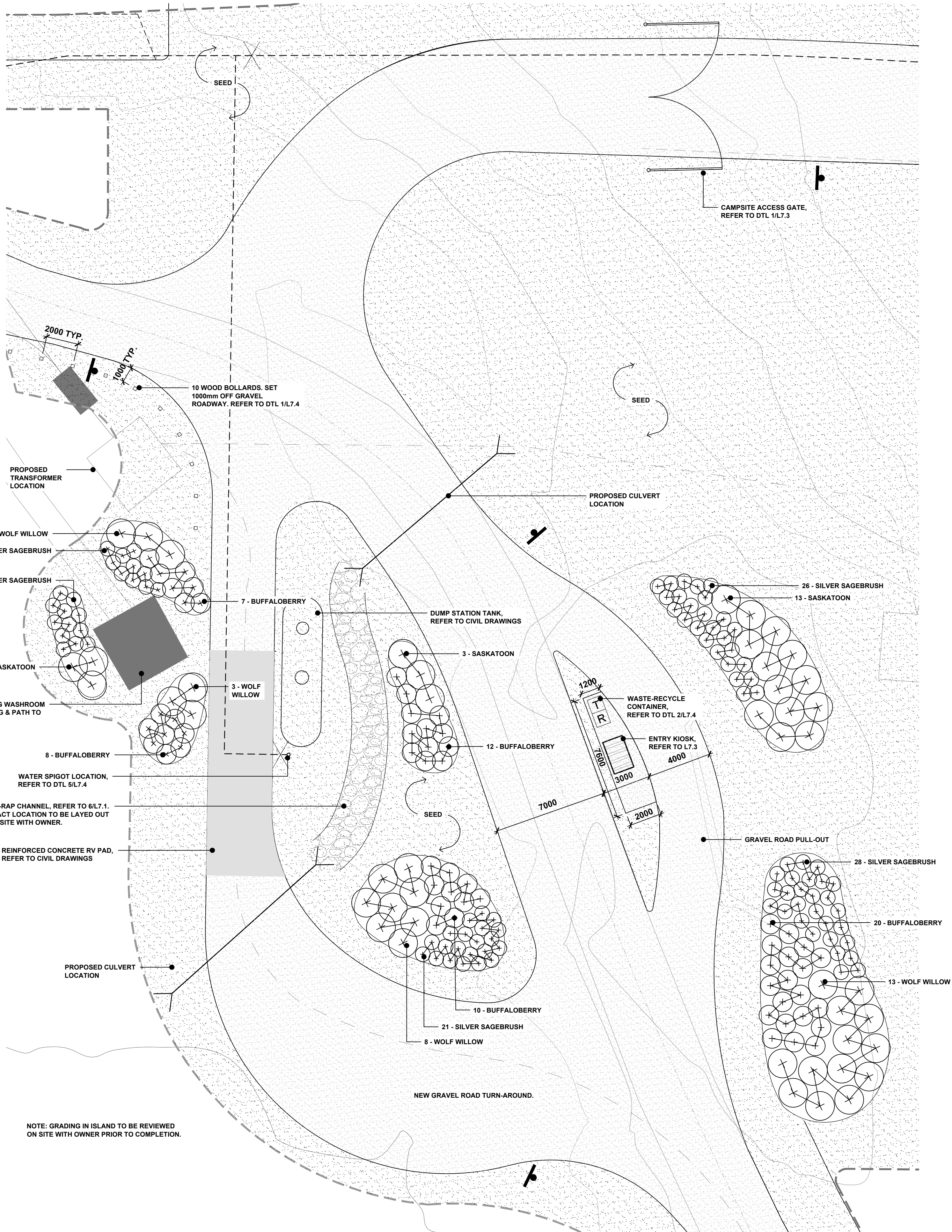
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Drawing Reference No./No. de référence du dessin  
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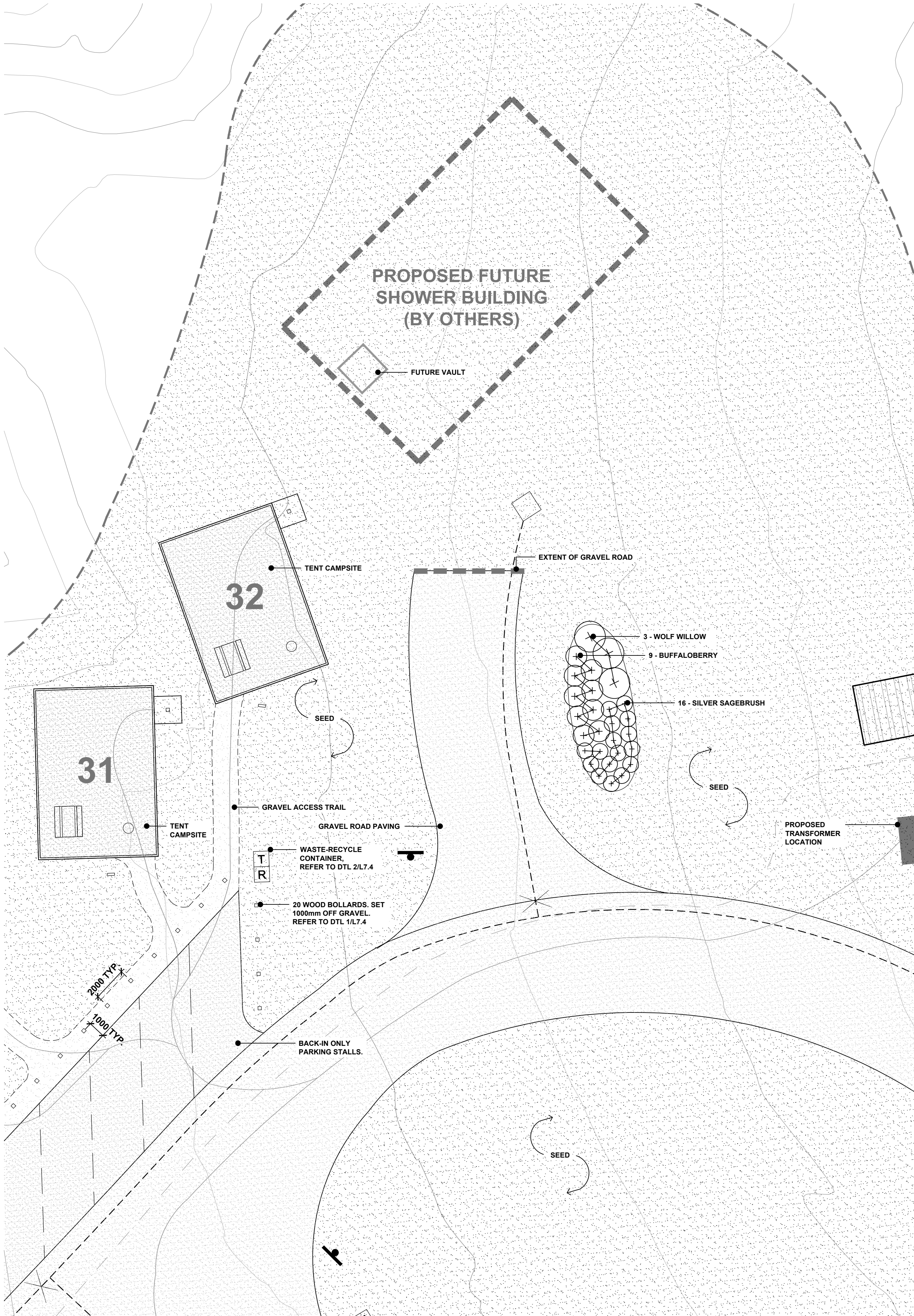


1  
L2.3

## DETAILED LAYOUT AND PLANTING PLAN - ENTRY AREA

SCALE 1:150

NOT FOR CONSTRUCTION



2  
L2.3

## DETAILED LAYOUT AND PLANTING PLAN - WASHROOM / SHOWER BUILDING

SCALE 1:150



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01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DD	KW/GH

Revision / Revision

Consultant's Stamp Sciau de l'expert-conseil	Eng. Stamp Sciau de l'ingénieur
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Consultant's Name Nom de l'expert-conseil
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Project title/Titre du projet
ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin
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## DETAILED LAYOUT AND PLANTING PLAN - MISCELLANEOUS AREAS

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DD/NG	Date/Date JUL.21.2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

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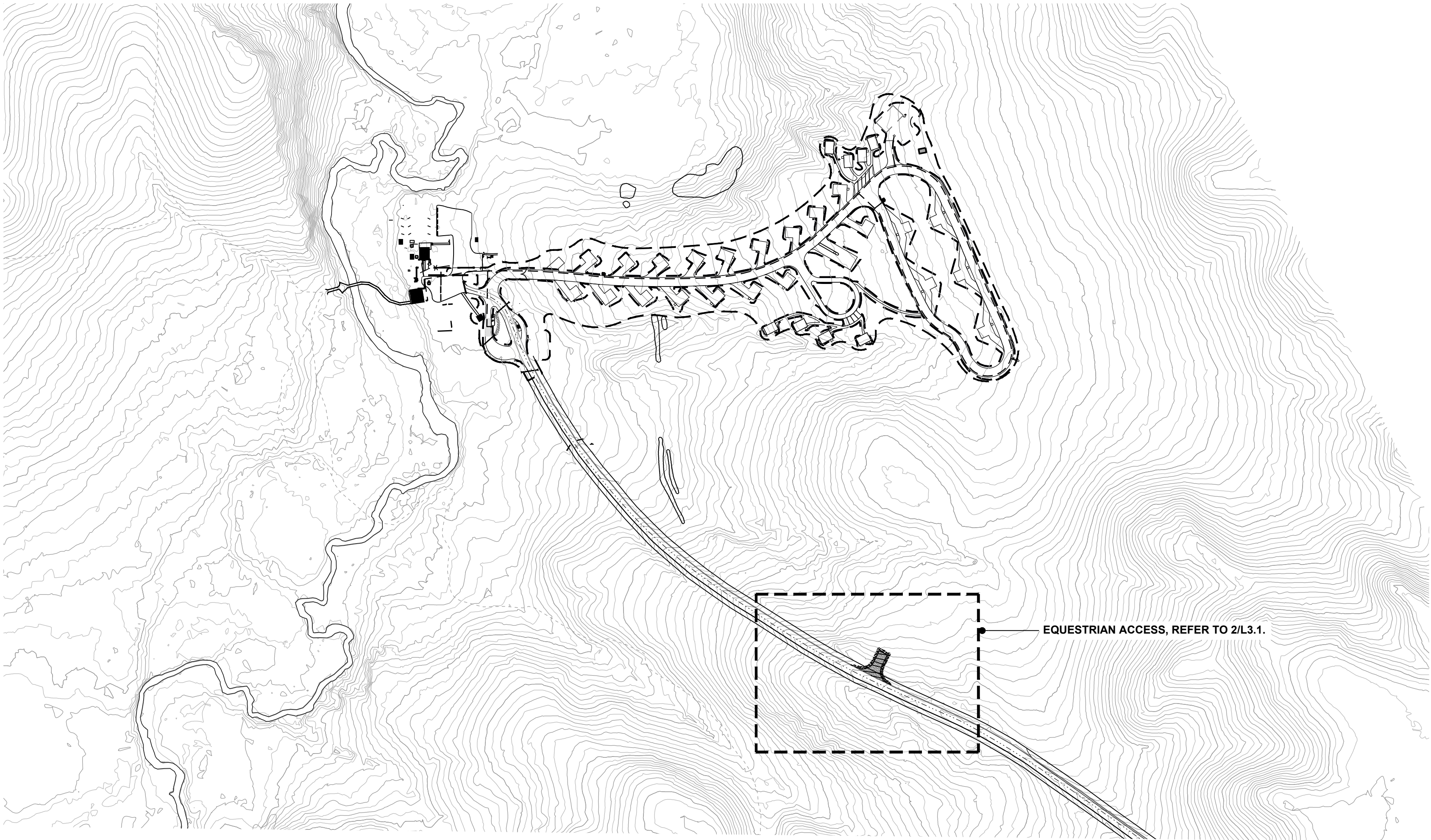
Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Drawing Reference No./No. de référence du dessin 2711 16012 - 00	L2.3
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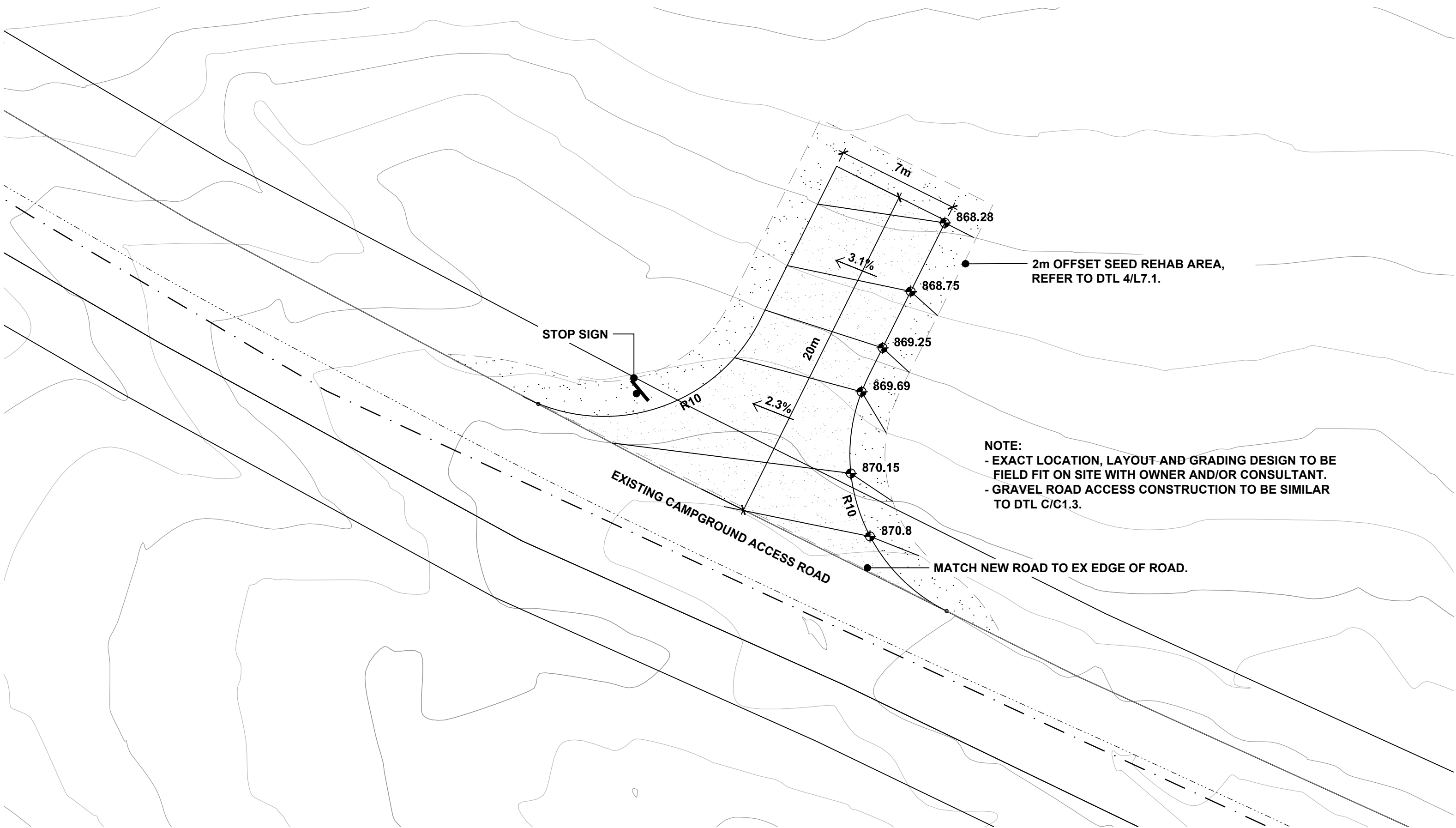




LEGEND

- 855.0 EXISTING MAJOR CONTOUR @ 5.0m INTERVALS
- 857.0 EXISTING MINOR CONTOUR @ 1.0m INTERVALS
- 858.0 PROPOSED MAJOR CONTOUR @ 1.0m INTERVALS
- 858.2 PROPOSED MINOR CONTOUR @ 0.2m INTERVALS
- 858.2 EXISTING ELEVATIONS
- 76.60 PROPOSED ELEVATION
- 2% DIRECTION OF DRAINAGE
- 4.6% PROPOSED SWALE

1 EQUESTRIAN ACCESS KEY PLAN  
SCALE 1:2500



2 EQUESTRIAN ACCESS DETAIL  
SCALE 1:200

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Consultant's Name Nom de l'expert-conseil	McElhanney
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Project title/Titre du projet	ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK
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Drawing title/Titre du dessin	EQUESTRIAN ACCESS GRADING PLAN
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Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DDING	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KWIGH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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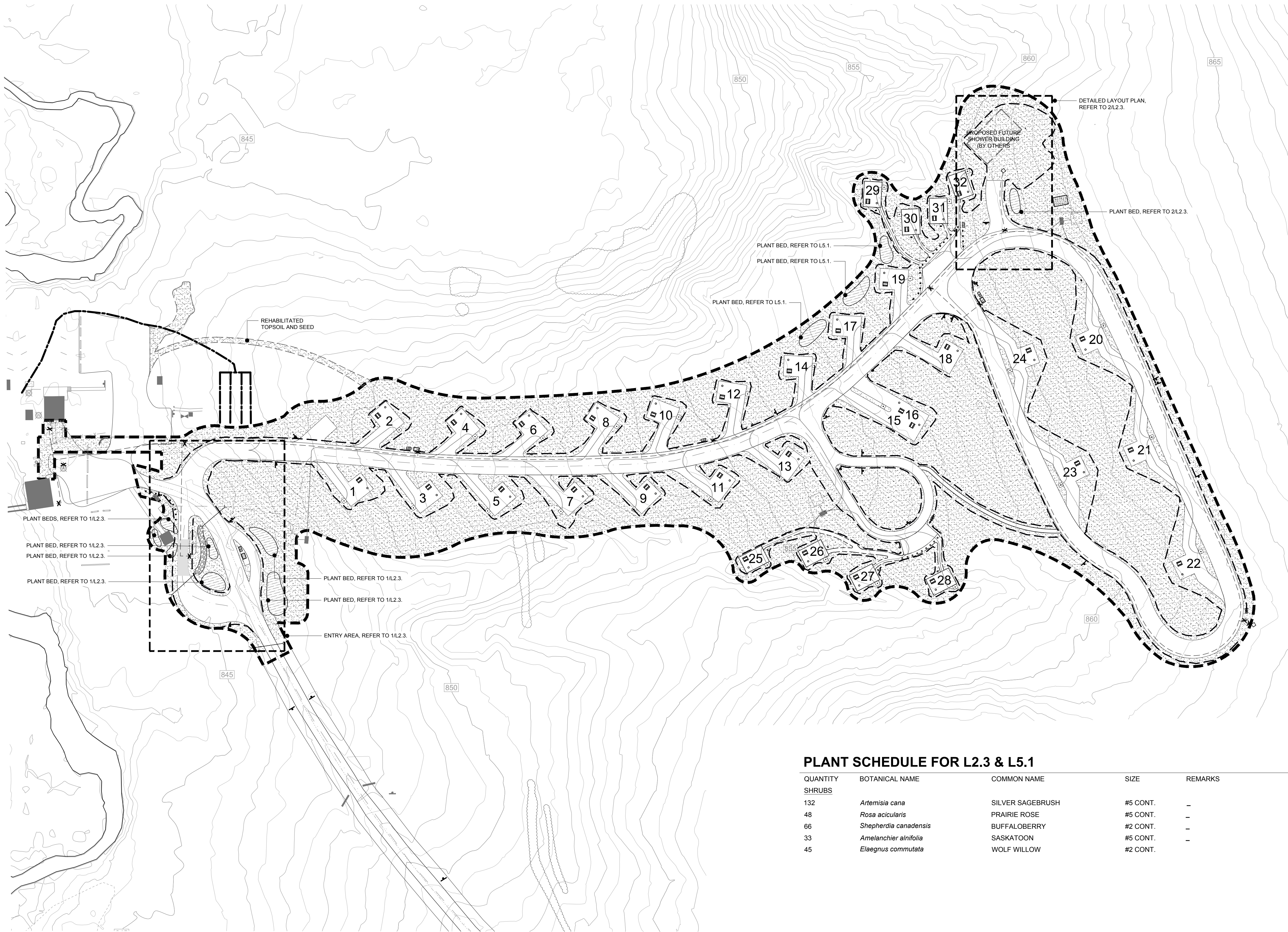
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Drawing Reference No./No. de référence du dessin 2711 16012 - 00	L3.1
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Filename: G:\Projects\2711\2711 16012 00 Grasslands NP\10.0 Drawings\Current\Grasslands\_L4.1 Planting Plan.dwg\4.1 Planting Plan  
Project: July 21, 2016, 17:31:10



#### LEGEND

- APPROXIMATE LIMIT OF DISTURBANCE
- PROJECT LIMIT
- SEED ON 100mm TOPSOIL  
SEED TO BE SUPPLIED BY OWNER
- WOOD CHIP MULCH

#### NOTES:

- ALL SHRUB BEDS TO BE MIN. 450mm DEPTH SOIL MIX.
- ALL SHRUB BEDS c/w 75mm WOOD CHIP MULCH. CONTRACTOR TO PROVIDE MULCH SAMPLE FOR OWNER REVIEW.
- IMPORTED SOIL MIX FOR TREE, SHRUB, AND SEED BEDS TO BE PER PROJECT SPECIFICATIONS. SUBMIT ALL TESTING REQUIREMENTS TO CONSULTANT FOR REVIEW.
- SEED CERTIFICATES TO BE PROVIDED TO PARKS CANADA PRIOR TO PRODUCT DELIVERY TO SITE. REFER TO SPECIFICATIONS FOR SEED MIX AND APPLICATION RATE.
- ALL UTILITIES MUST BE LOCATED IN FIELD PRIOR TO ANY EXCAVATION. ENSURE ALL UTILITY INSTALLATIONS HAVE BEEN COMPLETED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- ALL CONTRACTOR ACCESS PATHS TO BE DE-COMPACTED AND REHABILITATED WITH TOPSOIL AND SEED.

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03	JUL.01.16	REISSUED FOR 95% CLIENT REVIEW	DD	KW/GH
02	APR.15.16	ISSUED FOR 95% CLIENT REVIEW	DD	KW/GH
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DD	KW/GH

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
---	------------------------------------

Client/client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---------------	---	---

Consultant's Name  
Nom de l'expert-conseil



Project title/Titre du projet

## ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01

GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin

## PLANTING PLAN

Surveyed by/Argenté par N/A	Drawn by/Dessiné par DD/NG	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Parks Canada Responsible Officer/Agent Responsable  
Parcs Canada

Parks Canada Project Manager/Administrateur de Projets  
Parcs Canada

Project No./No. du projet

Asset No./No. du bien

Sheet No./  
No. de la feuille

Drawing Reference No./No. de référence du dessin

2711 16012 - 00

L4.1

1  
L4.1

## PLANTING PLAN

SCALE 1:750

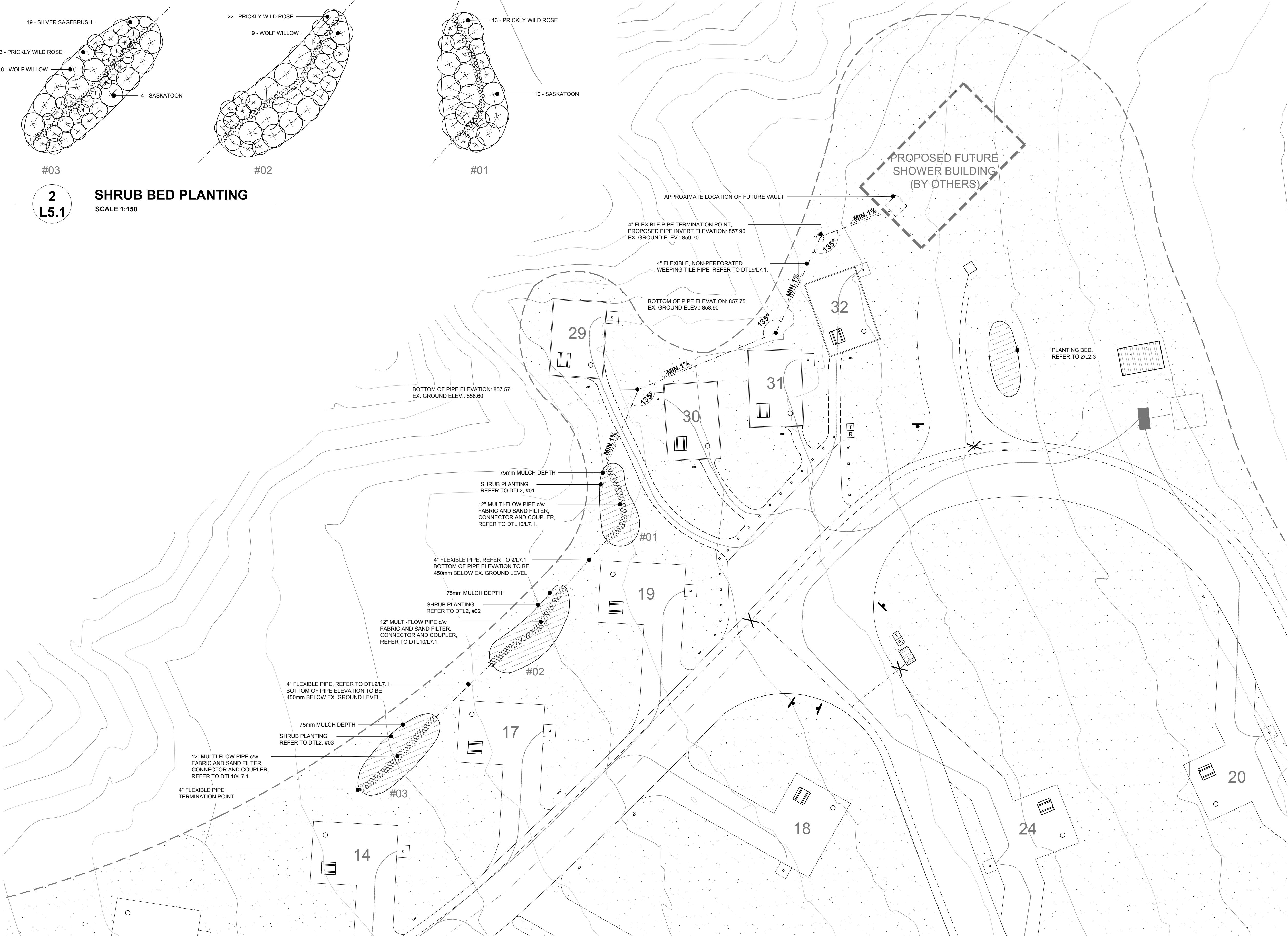
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Filename: G:\Projects\27116012\00 Grasslands NP\10.0 Drawings\Current\Grasslands\_L5.1\_Grey Water Redistribution Layout Plan.dwg L5.1\_Grey Water Redistribution Layout

July 21, 2016, 17:28:31

Project:



LEGEND

- LIMIT OF PROJECT
- - - - - 4" FLEXIBLE, NON-PERFORATED WEEPING TILE PIPE, REFER TO 9/L7.1.
- 12" MULTI-FLOW PIPE c/w FABRIC AND SAND FILTER, CONNECTOR AND COUPLER, TO BE PLACED HORIZONTALLY IN PLANTING BED, BY NILEX OR APPROVED ALTERNATIVE REFER TO 10/L7.1.
- 75mm DEPTH MULCH

NOTES:

- ALL SHRUB BED TO BE MIN. 450mm DEPTH SOIL MIX.
- ALL SHRUB BED c/w 75mm WOOD CHIP MULCH.
- IMPORTED SOIL MIX FOR TREE, SHRUB, AND SEED BEDS TO BE PER PROJECT SPECIFICATIONS. SUBMIT ALL TESTING REQUIREMENTS TO CONSULTANT FOR REVIEW.
- SEED CERTIFICATES TO BE PROVIDED TO PARKS CANADA PRIOR TO PRODUCT DELIVERY TO SITE.
- ALL UTILITIES MUST BE LOCATED IN FIELD PRIOR TO ANY EXCAVATION. ENSURE ALL UTILITY INSTALLATIONS HAVE BEEN COMPLETED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
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01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DD	KW/GH

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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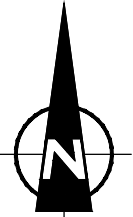
Client/client	
 Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada

Consultant's Name Nom de l'expert-conseil


Project title/Titre du projet
ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin
GREY WATER REDISTRIBUTION LAYOUT PLAN

Surveyed by/Argenté par N/A	Drawn by/Dessiné par DD/NG	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN
Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
Drawing Reference No./No. de référence du dessin 2711 16012 - 00		L5.1



1

L5.1

GREY WATER REDISTRIBUTION LAYOUT PLAN

SCALE 1:250

NOT FOR CONSTRUCTION



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July 21, 2016 - 14:44:12  
Plotter:



- LEGEND**
- PROJECT LIMIT
  - Concrete Walk; Refer to DTL1/L7.3
  - 10 CAMPSITE NUMBER
  - Traffic Signage

- NOTES:**
- SIGN LOCATION LAYOUT IN ACCORDANCE WITH TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM CONTROL DEVICES FOR CANADA (2014) AND PARKS CANADA EXTERIOR SIGNAGE GUIDELINES & PRINCIPLES
  - REFER TO PARKS CANADA EXTERIOR SIGNAGE GUIDELINES & PRINCIPLES FOR TYPICAL SIGN POST DETAIL, SIGN STYLES AND GRAPHICS.
  - SIGN STYLES AND GRAPHICS ALSO PER TAC MANUAL OF UNIFORM CONTROL DEVICES FOR CANADA (2014) FOR TYPICAL SIGN POST DETAIL.
  - SIGN LOCATION LAYOUT TO BE REVIEWED IN FIELD WITH CONSULTANT/OWNER PRIOR TO INSTALLATION.

DRAWINGS PREPARED BY

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---------------	---	---

Consultant's Name Nom de l'expert-conseil	
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Project title/Titre du projet	ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK
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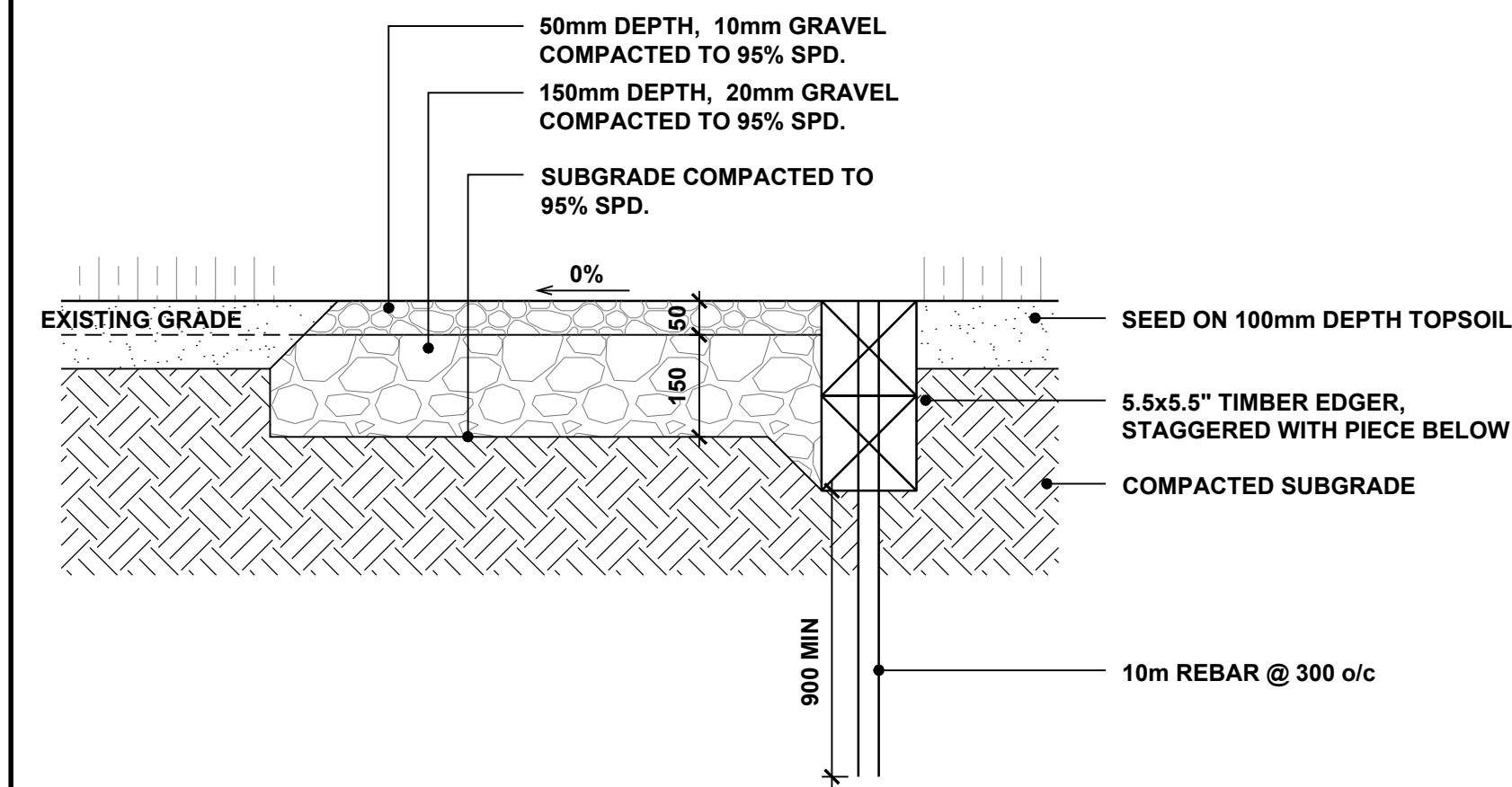
Drawing title/Titre du dessin	TRAFFIC CONTROL SIGNAGE PLAN
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Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DD/NG	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

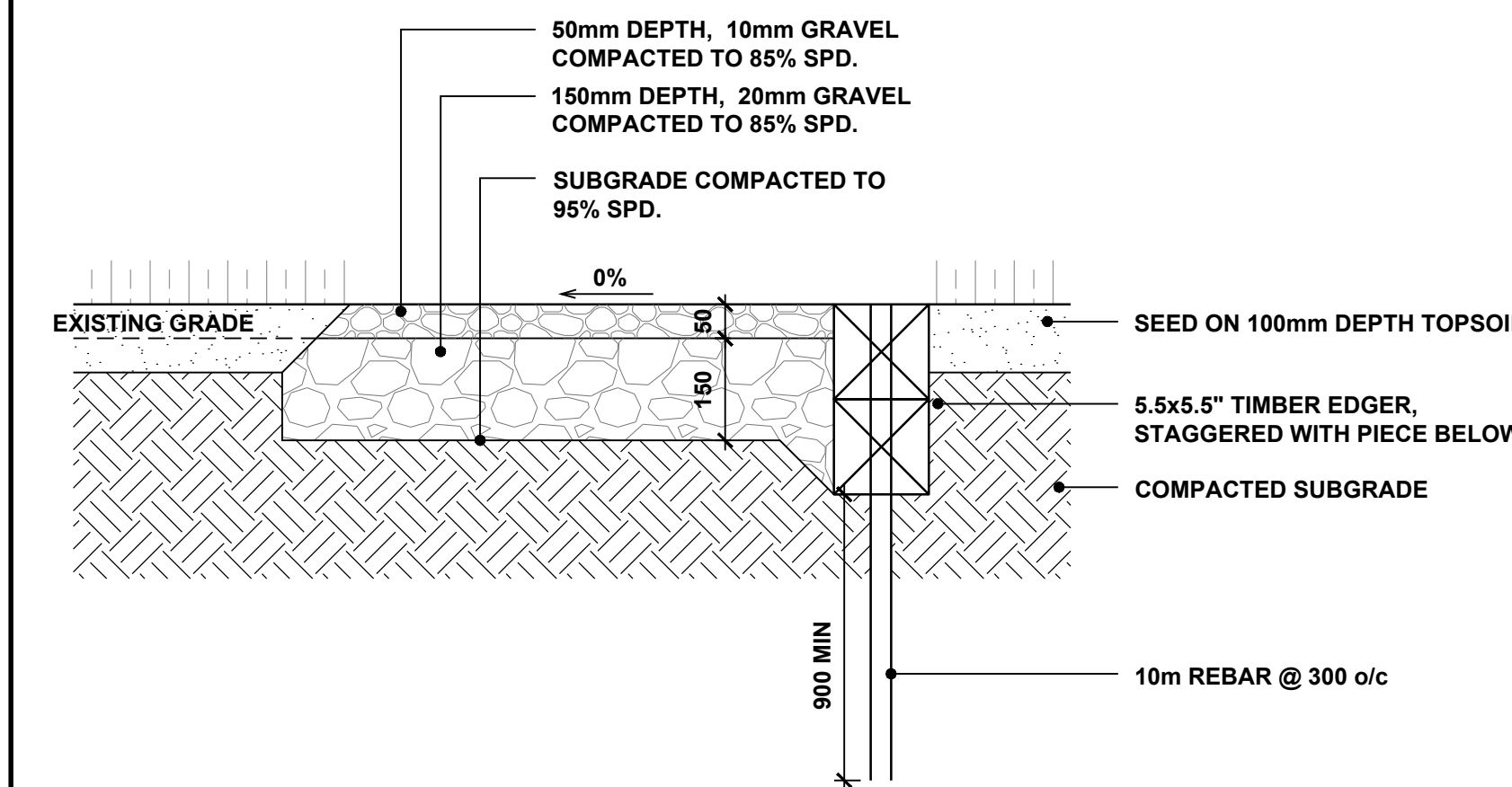
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Client Acceptance/Acceptation du client	Approved by/Approuvé par	
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Drawing Reference No./No. de référence du dessin 2711 16012 - 00		L6.1



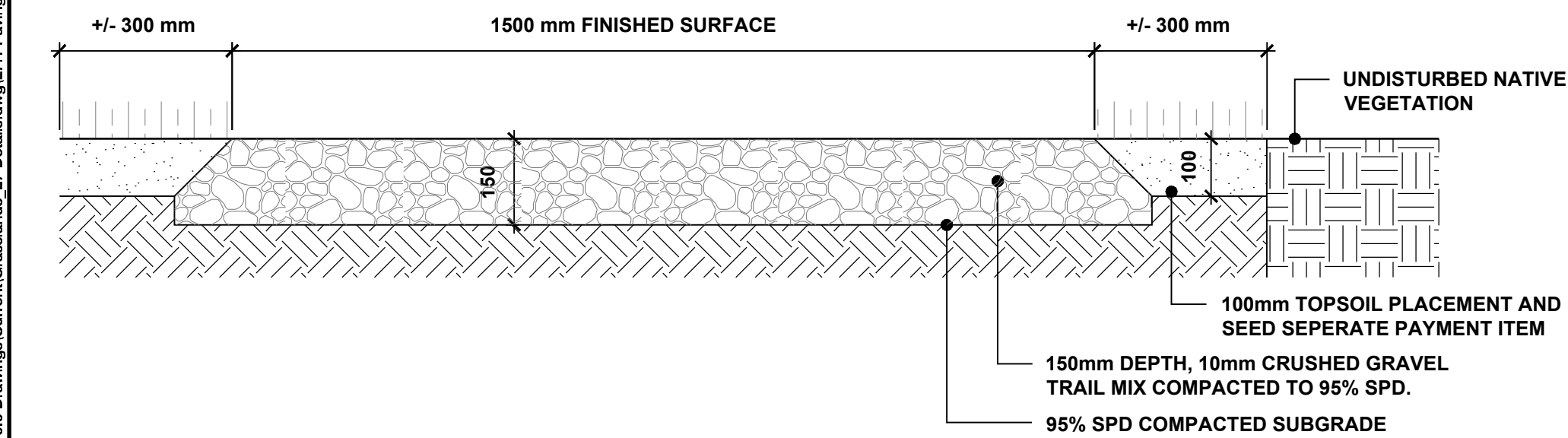
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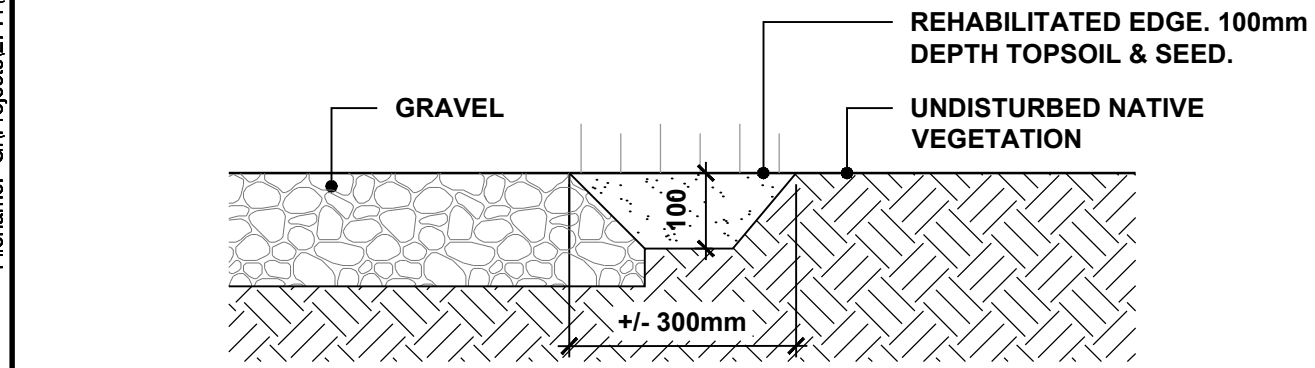
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L7.1  
GRAVEL - CAMPSITE PARKING PAD  
SCALE 1:10



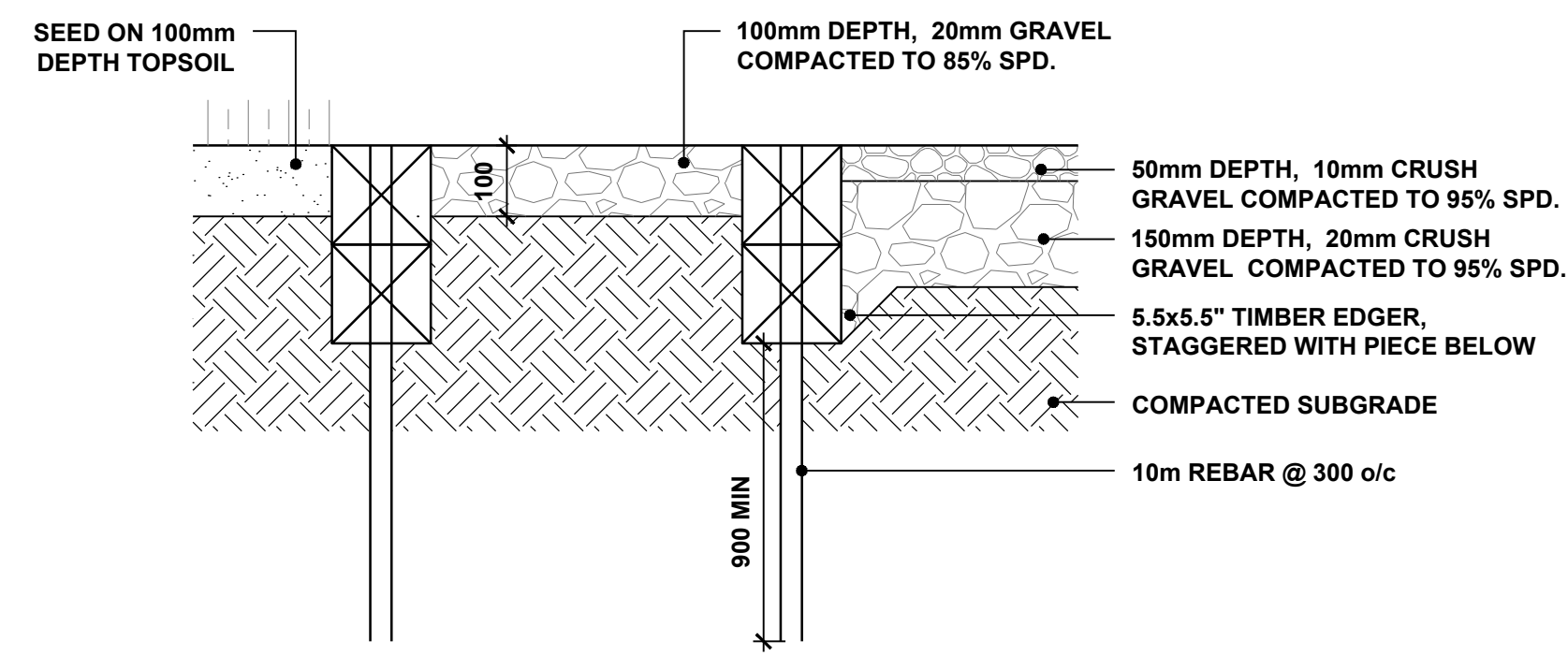
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L7.1  
GRAVEL - CAMPSITE LIVING AREA  
SCALE 1:10



3  
L7.1  
GRAVEL TRAIL  
SCALE 1:10



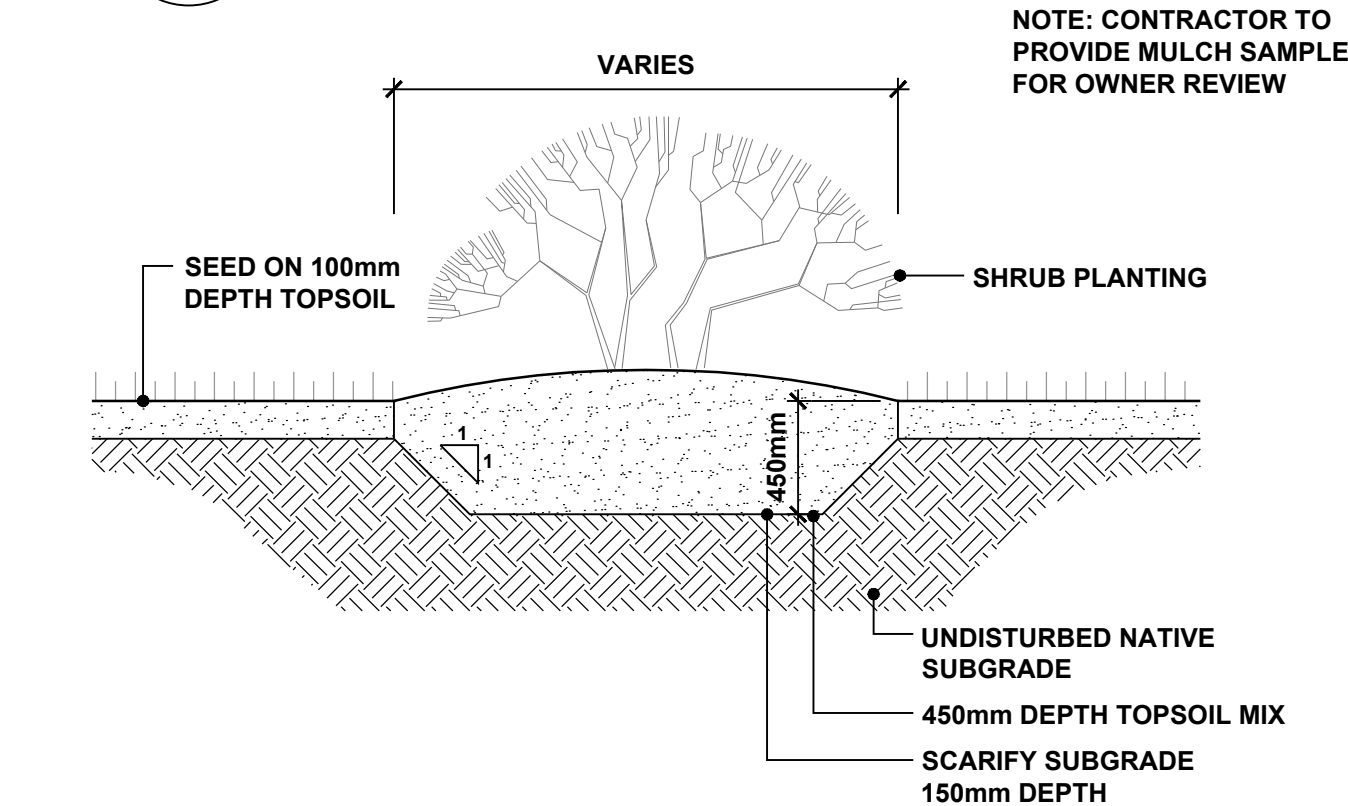
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L7.1  
REHABILITATION DETAIL TYP.  
SCALE 1:10



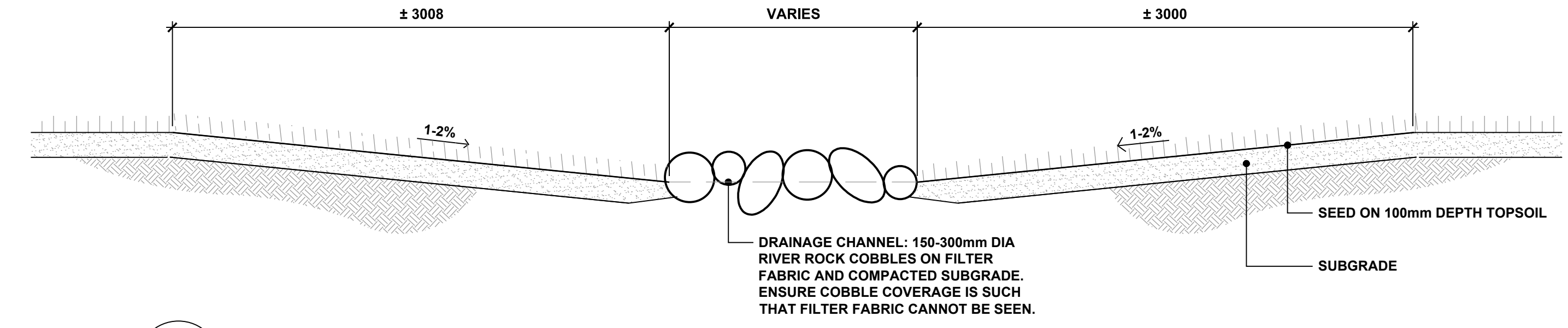
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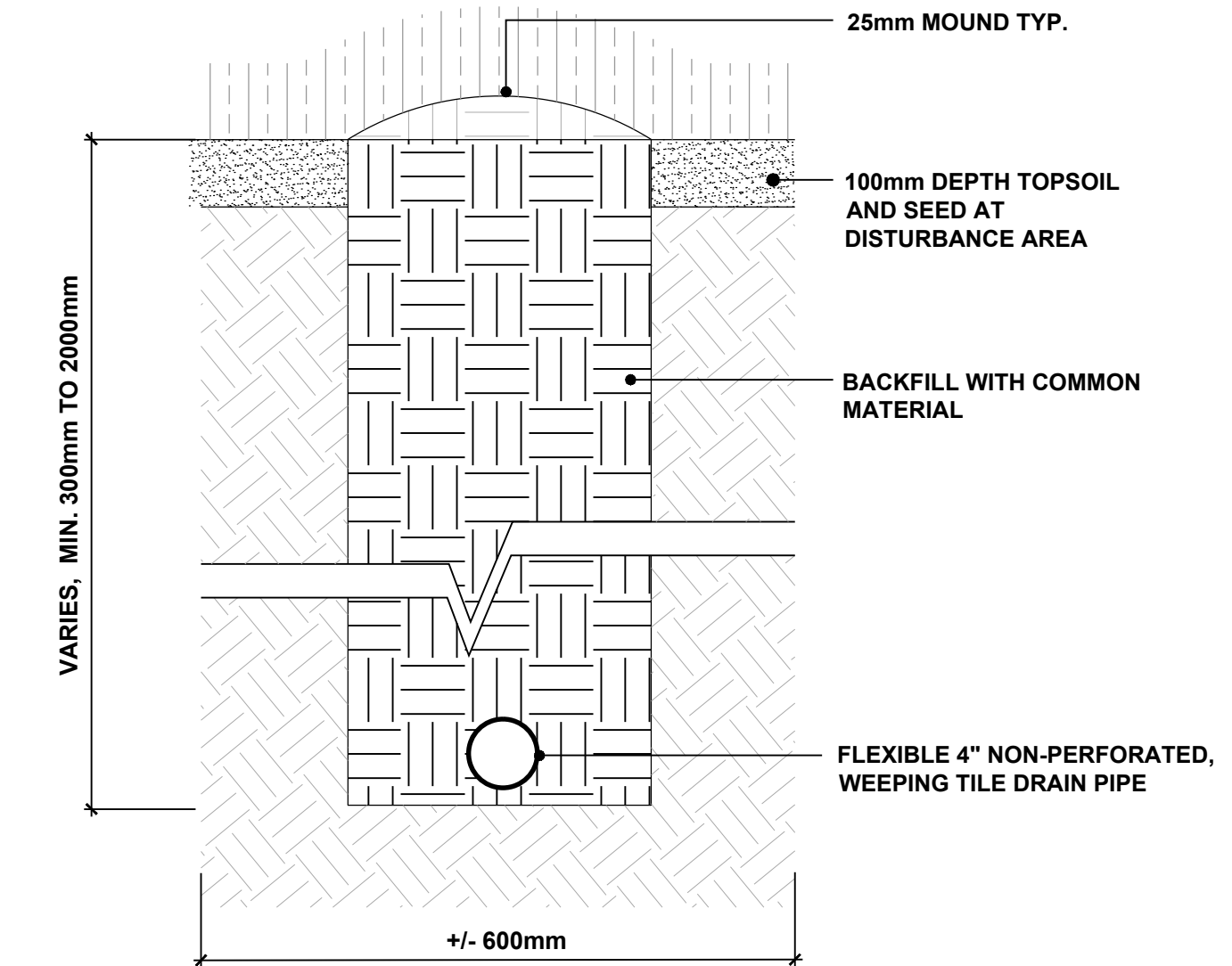
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L7.1  
50mm STRIPPED TOPSOIL DETAIL  
SCALE 1:10



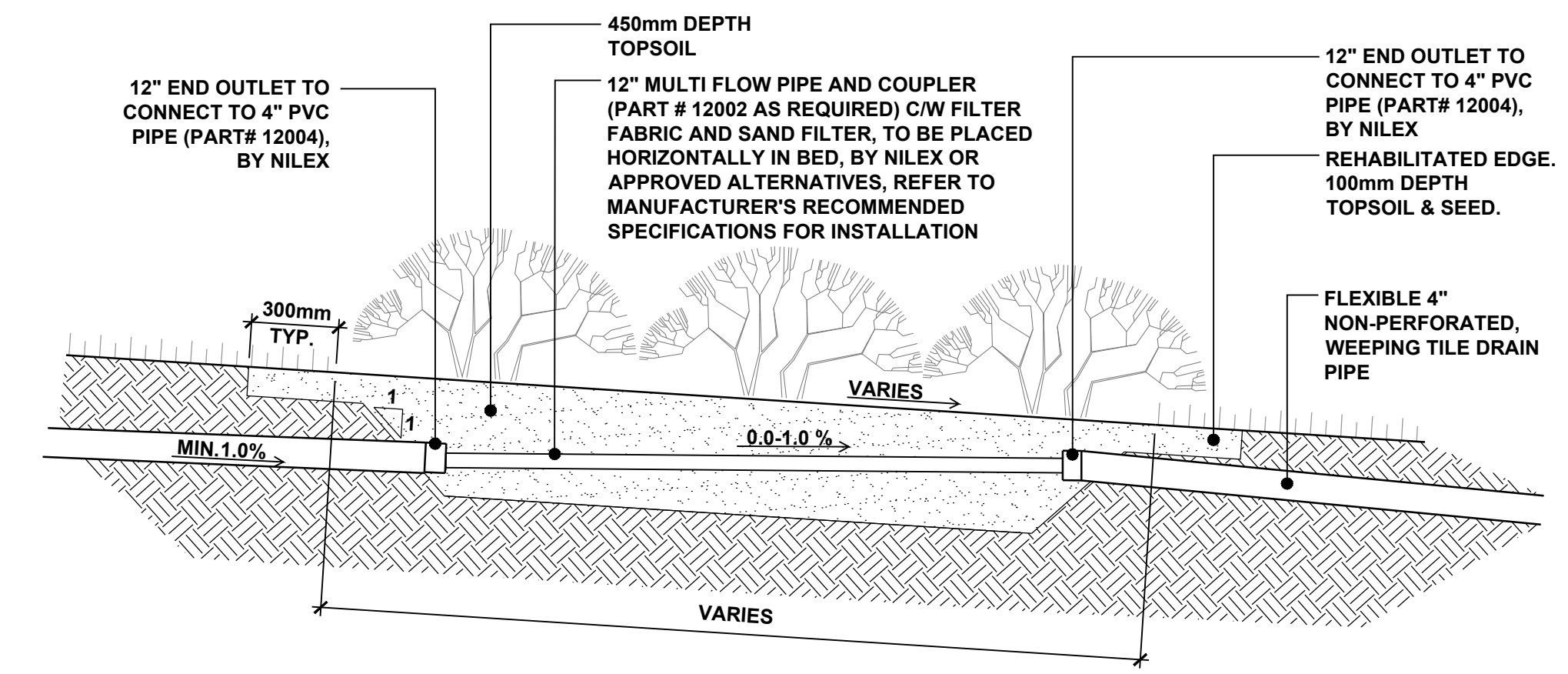
7  
L7.1  
SHRUB BED  
SCALE 1:20



8  
L7.1  
RIP-RAP CHANNEL DETAIL  
SCALE 1:25



9  
L7.1  
MULTIFLOW DISCHARGE PIPE DETAIL  
SCALE 1:7.5



10  
L7.1  
MULTIFLOW DISCHARGE SYSTEM DETAIL  
SCALE 1:20

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

Consultant's Stamp Sciau de l'expert-conseil	Eng. Stamp Sciau de l'ingénieur
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Client/client	 Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---------------	---	---

Consultant's Name  
Nom de l'expert-conseil



Project title/Titre du projet  
**ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01**  
GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin

## PAVING, PLANTING AND RIP RAP CHANNEL DETAILS

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DD/NG	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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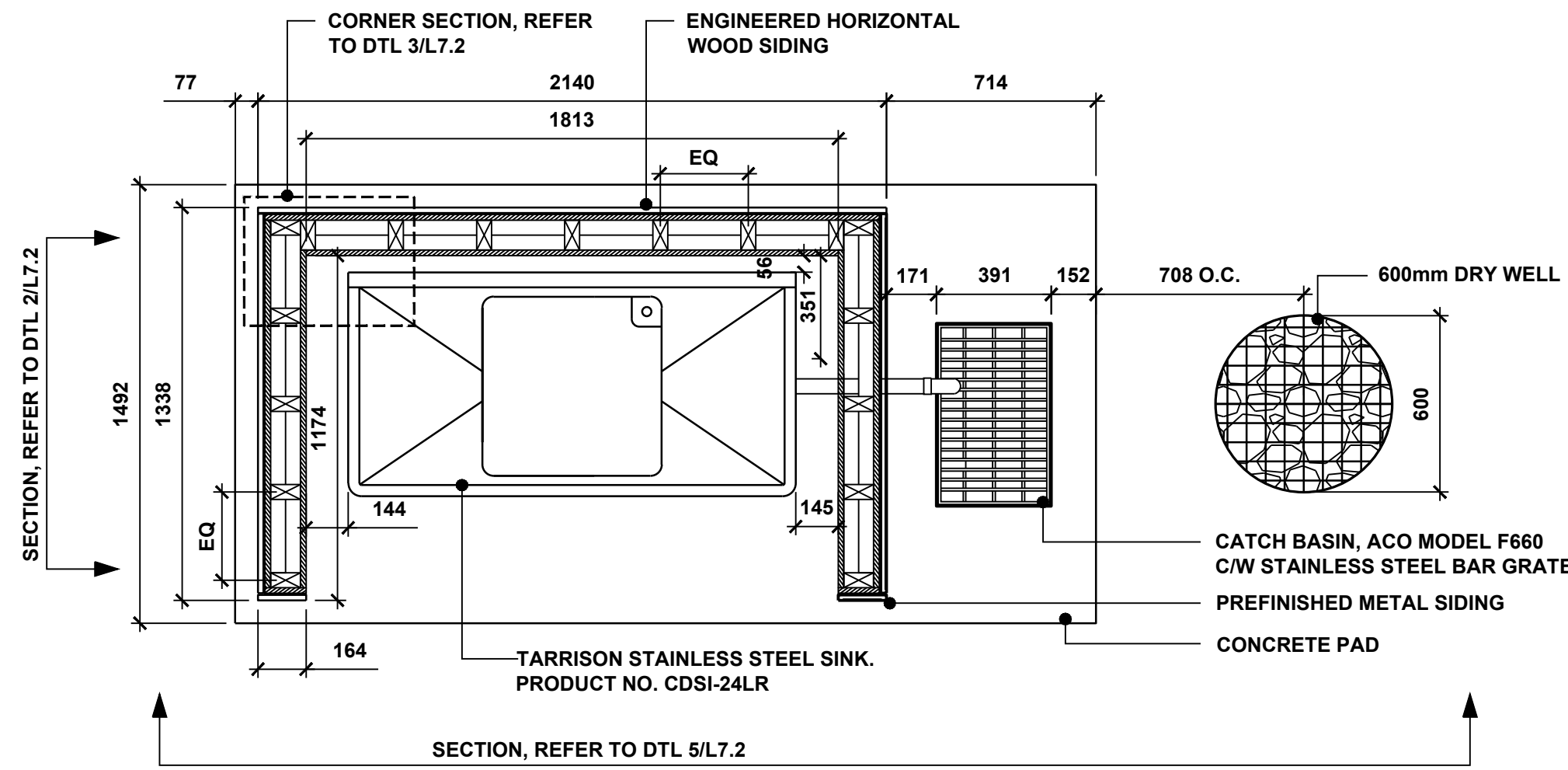
Parks Canada Responsible Officer/Agent Responsable Project No./No. du projet	Parks Canada Project Manager/Administrateur de Projets Asset No./No. du bien	Sheet No./ No. de la feuille
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Drawing Reference No./No. de référence du dessin  
2711 16012 - 00

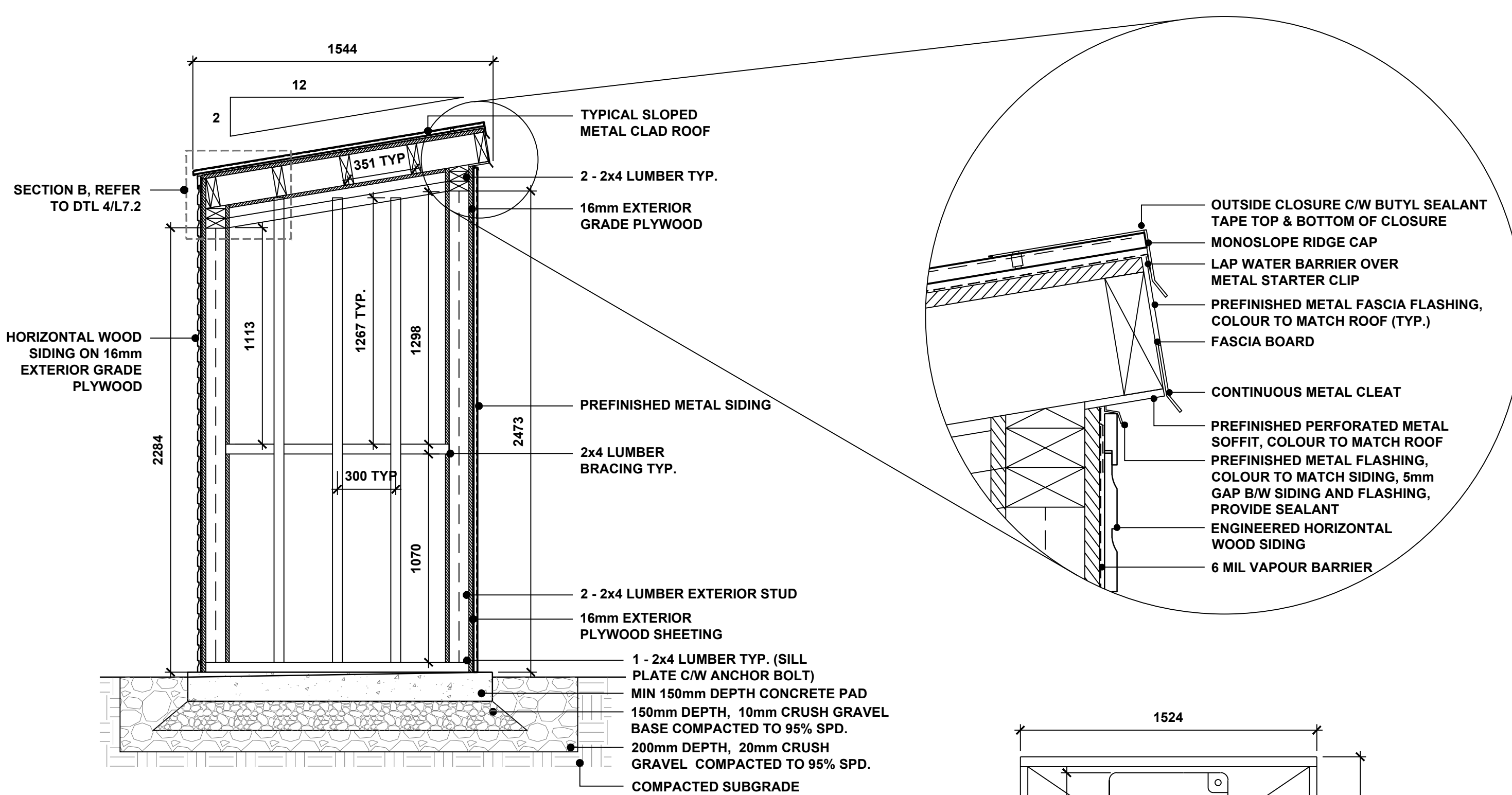
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NOT FOR CONSTRUCTION

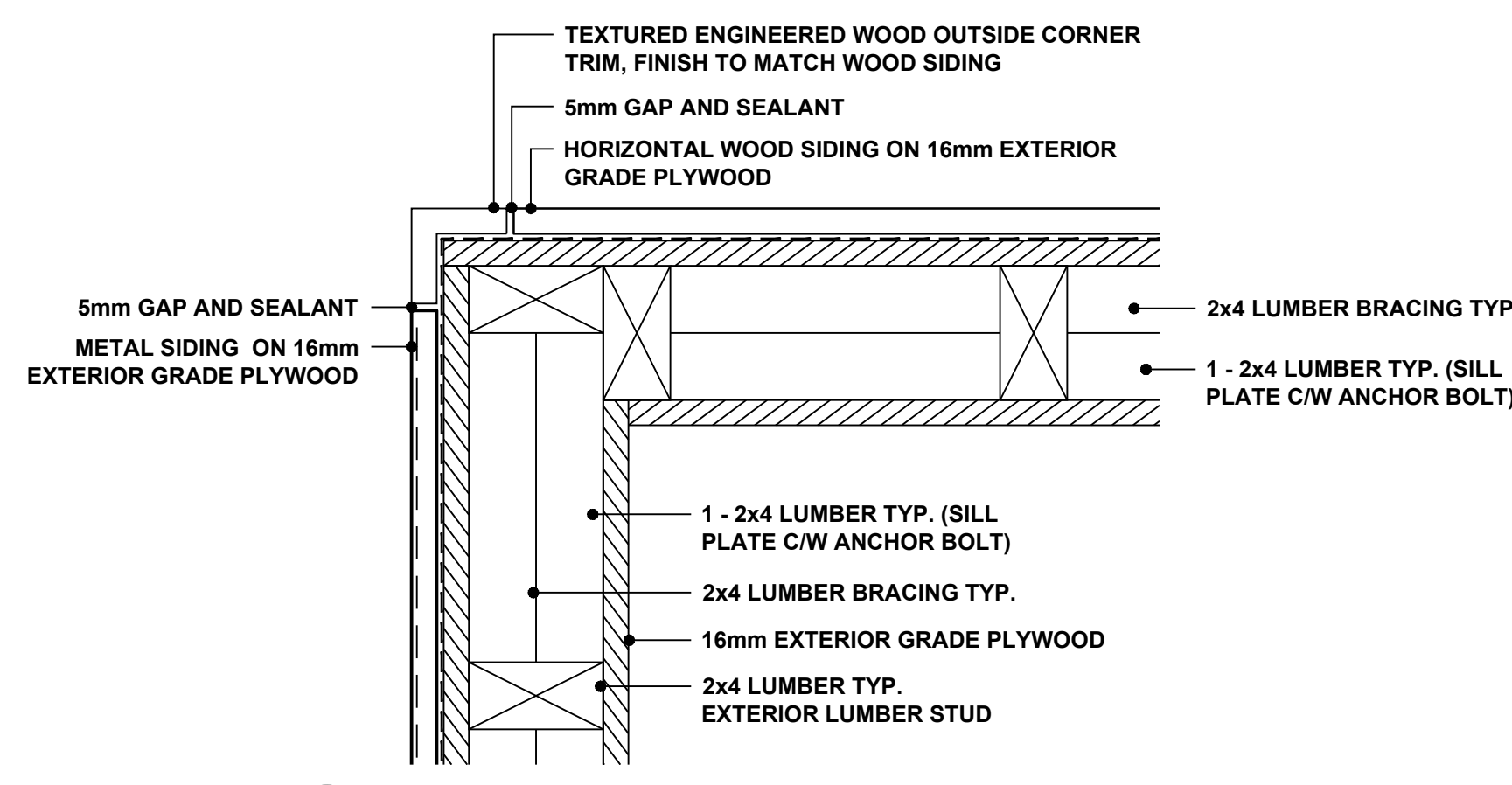




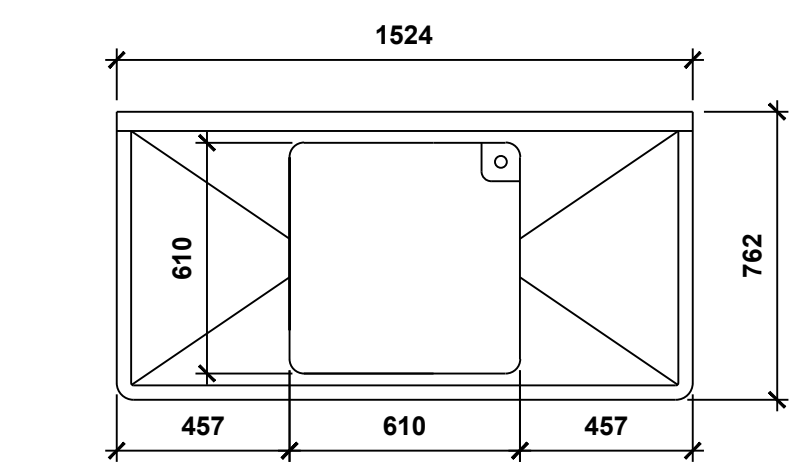
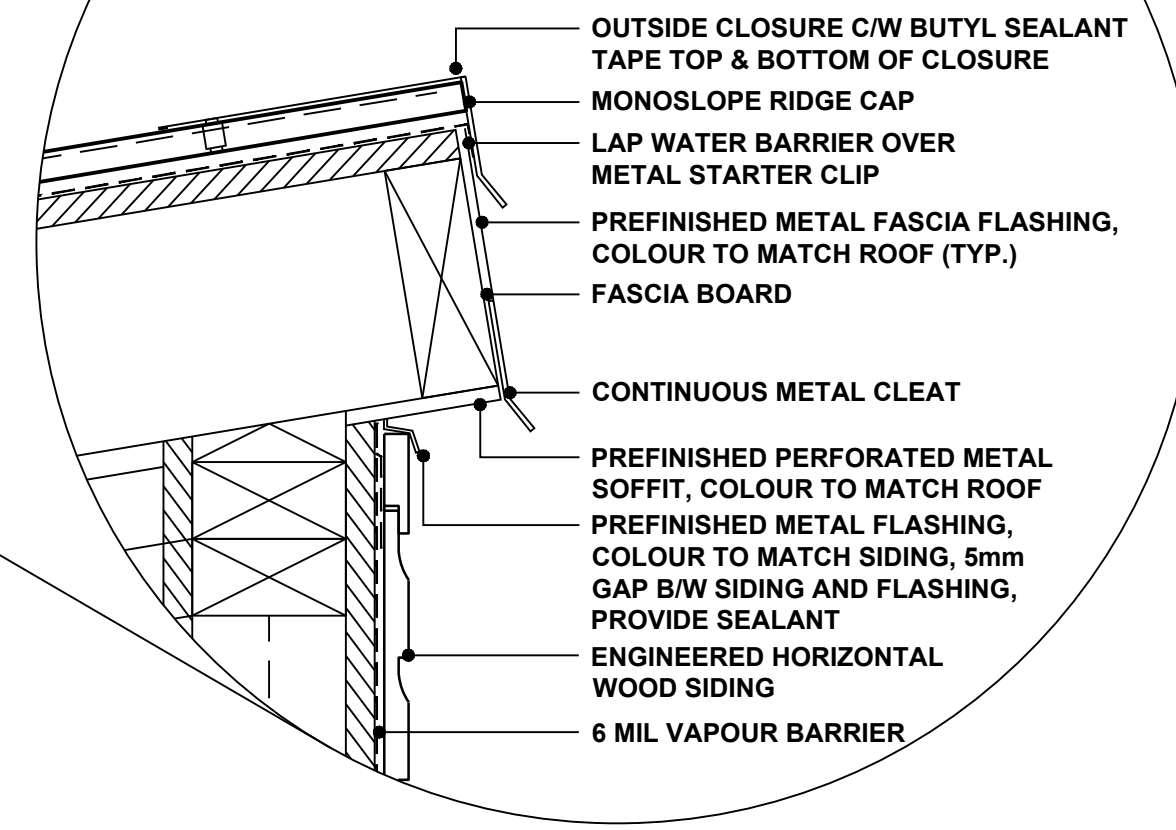
1 WATER STATION PLAN VIEW  
L7.2 SCALE 1:20



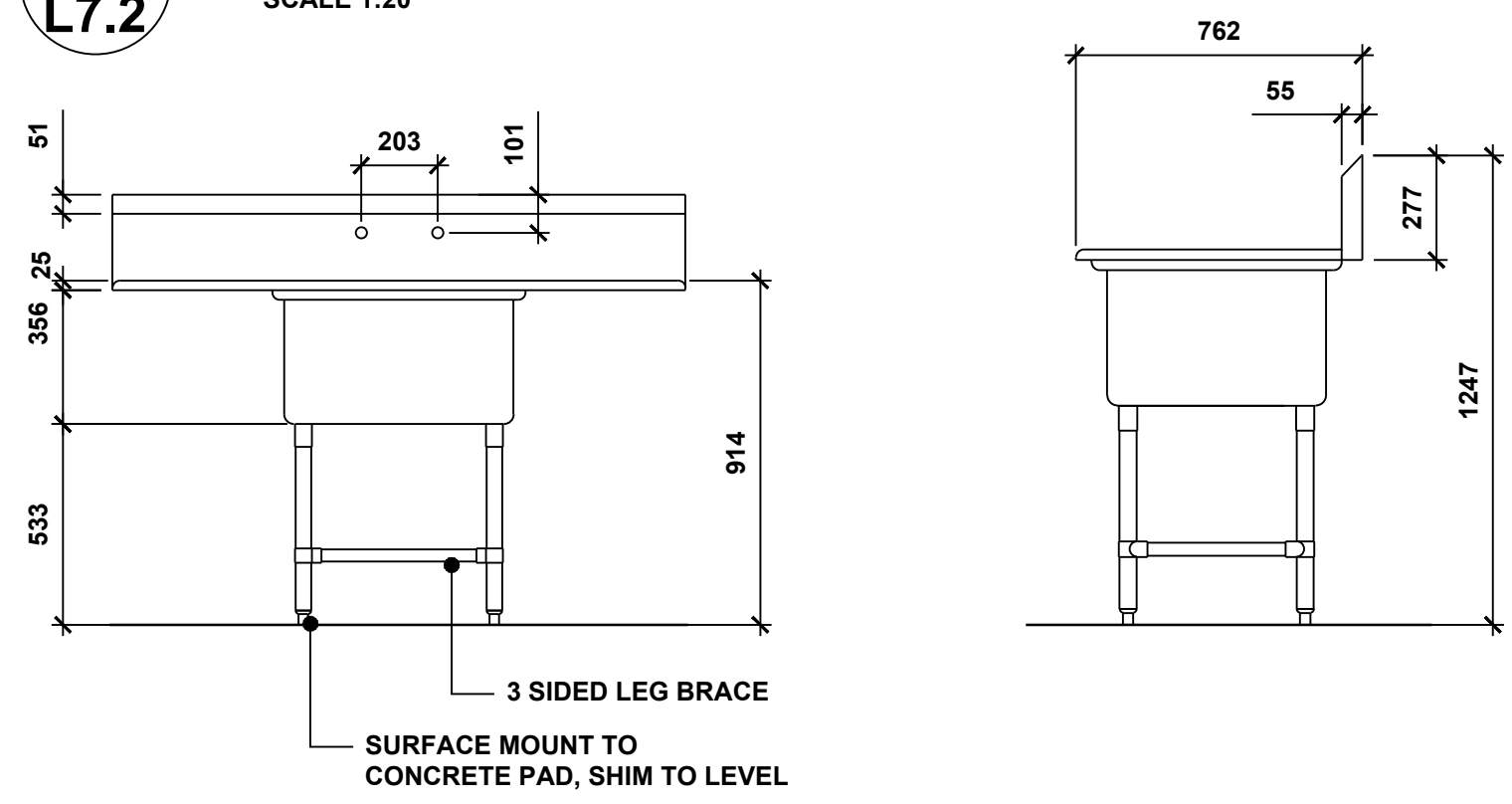
2 WATER STATION SECTION  
L7.2 SCALE 1:20



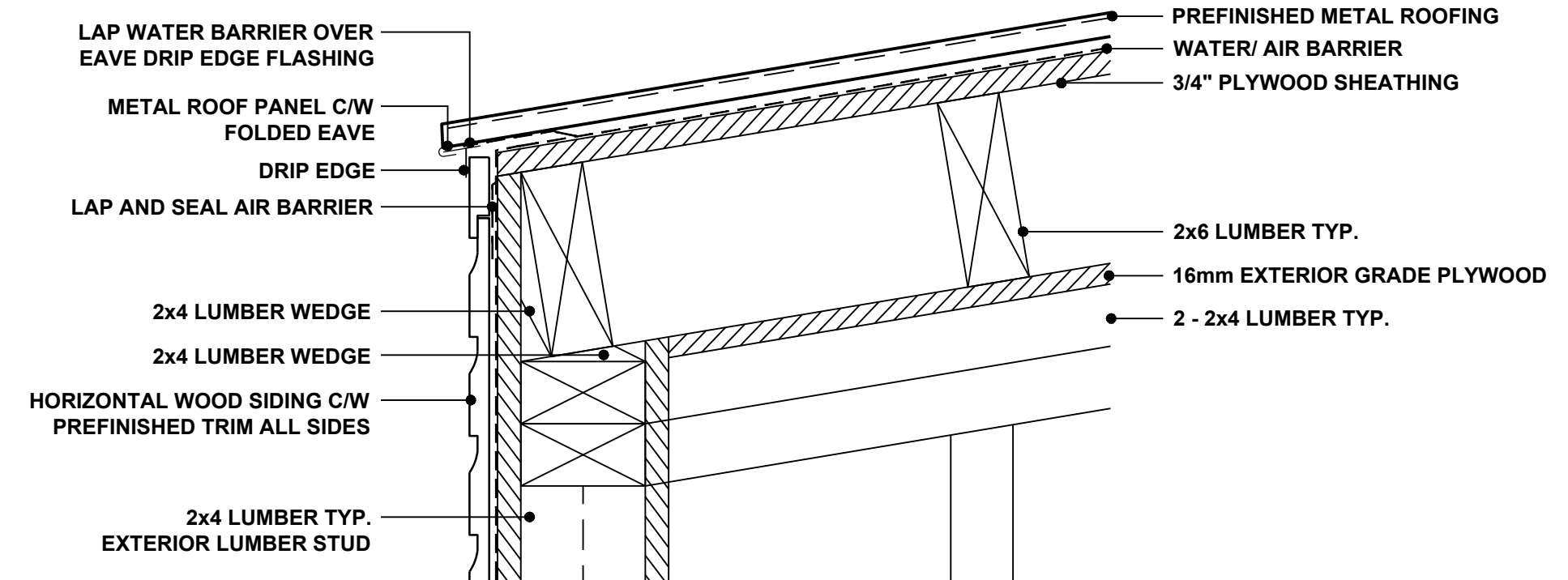
3 WATER STATION CORNER SECTION  
L7.2 SCALE 1:5



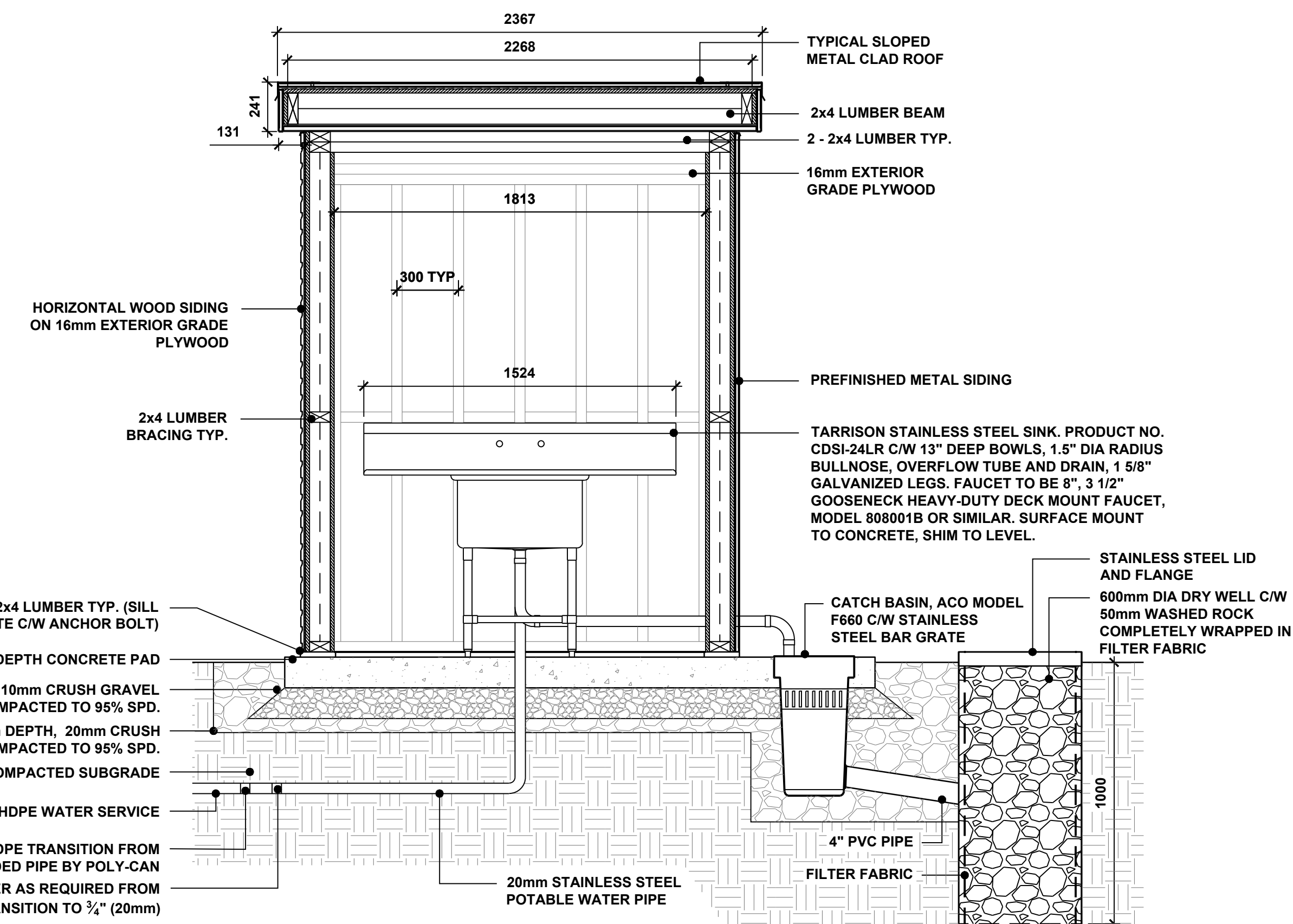
8 WATER STATION SINK PLAN VIEW  
L7.2 SCALE 1:20



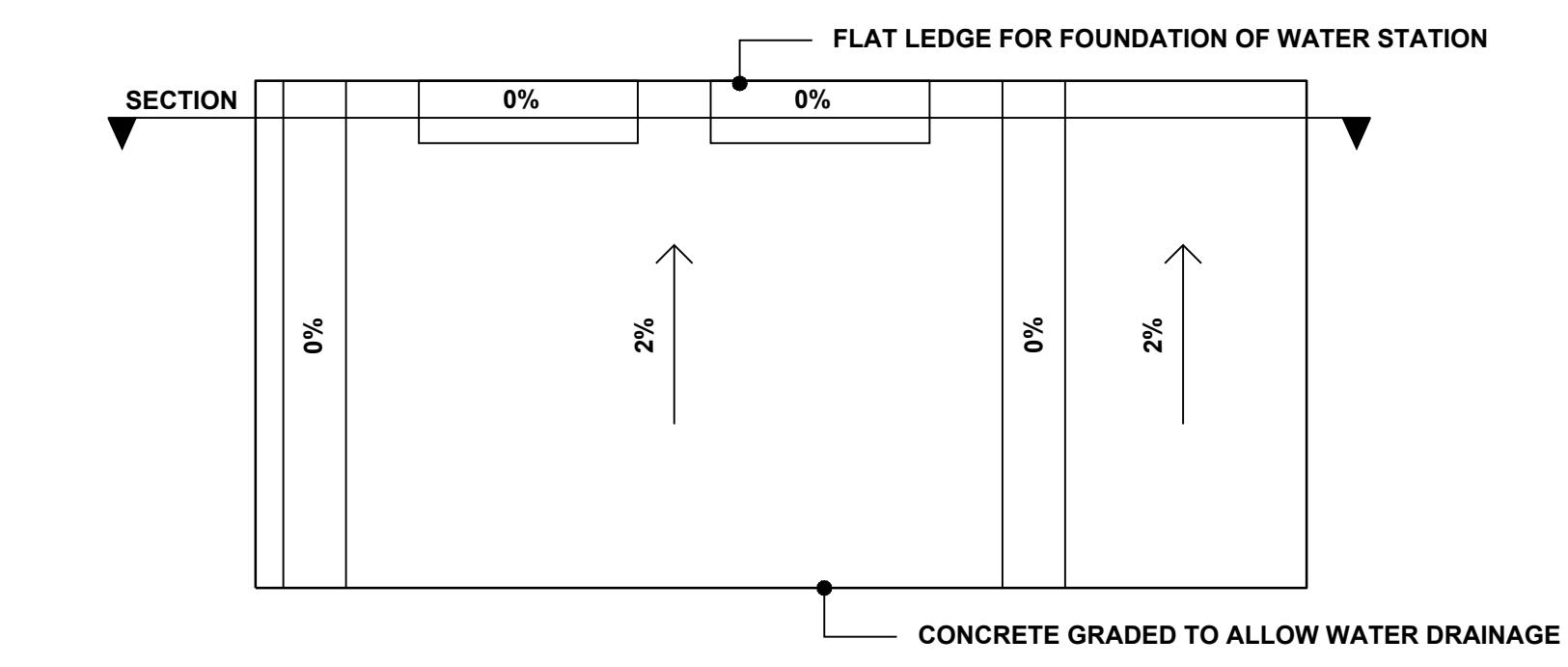
9 WATER STATION SINK ELEVATION  
L7.2 SCALE 1:20



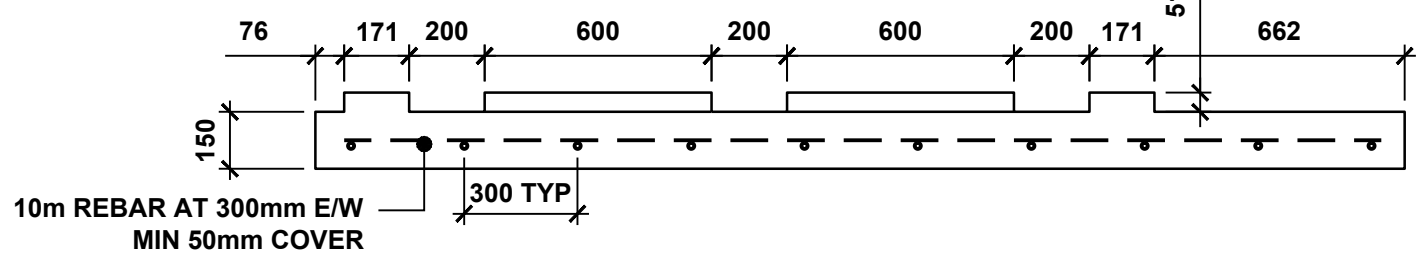
4 WATER STATION SECTION B  
L7.2 SCALE 1:5



5 WATER STATION ELEVATION  
L7.2 SCALE 1:20



6 WATER STATION PAD LAYOUT  
L7.2 SCALE 1:20



7 WATER STATION PAD SECTION  
L7.2 SCALE 1:20

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision				

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---	--

Consultant's Name  
Nom de l'expert-conseil



Project title/Titre du projet  
**ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01**  
GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin

## WATER STATION DETAILS

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DD/ING	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KW/GH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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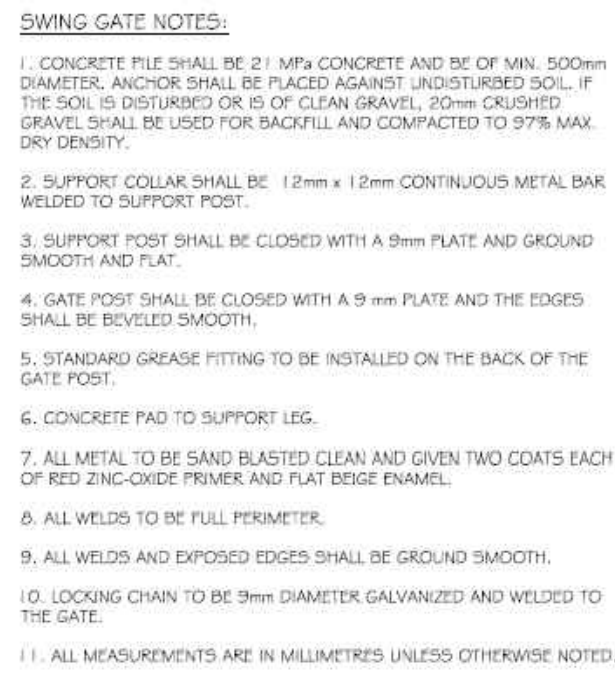
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Drawing Reference No./No. de référence du dessin  
2711 16012 - 00

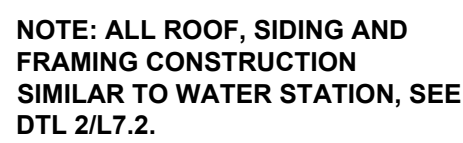
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NOT FOR CONSTRUCTION



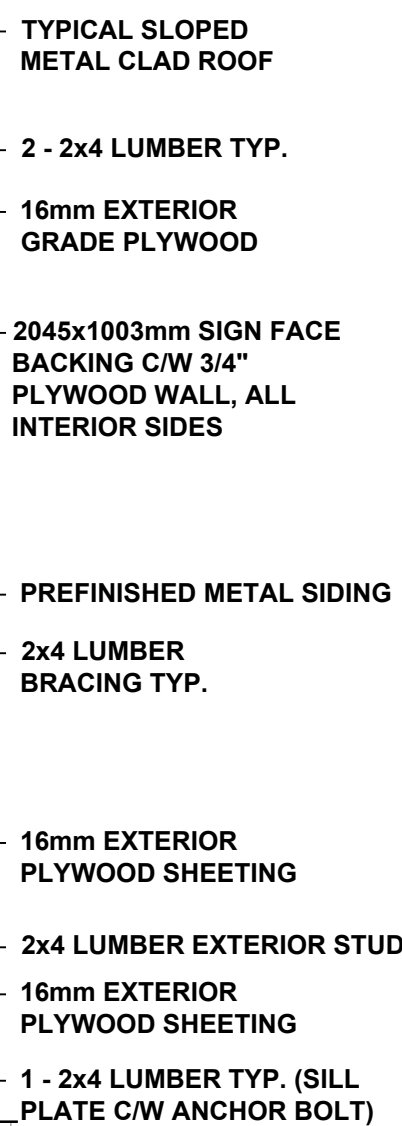


1 ENTRY GATE  
L7.3 SCALE 1:100

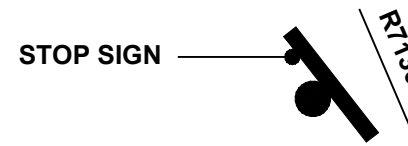


## 2 ENTRY KIOSK PLAN VIEW

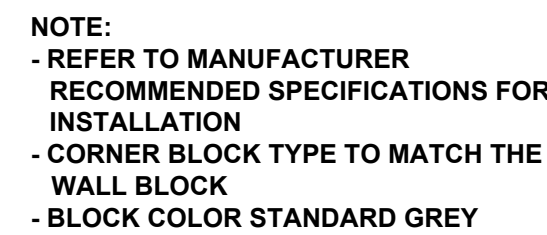
L7.3 SCALE 1:20




**ENTRY KIOSK SECTION**  
 SCALE 1:20



## 4 WOOD STORAGE BIN PLAN VIEW



## 5 WOOD STORAGE WALL DETAIL

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Revision / Revision

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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client

	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Consultant's Name Nom de l'expert-conseil	
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**McElhanney**Project title/Titre du projet

ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01  
GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin

## STRUCTURE DETAILS

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DD/ING	Date/Date JUL.21.2016
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Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

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Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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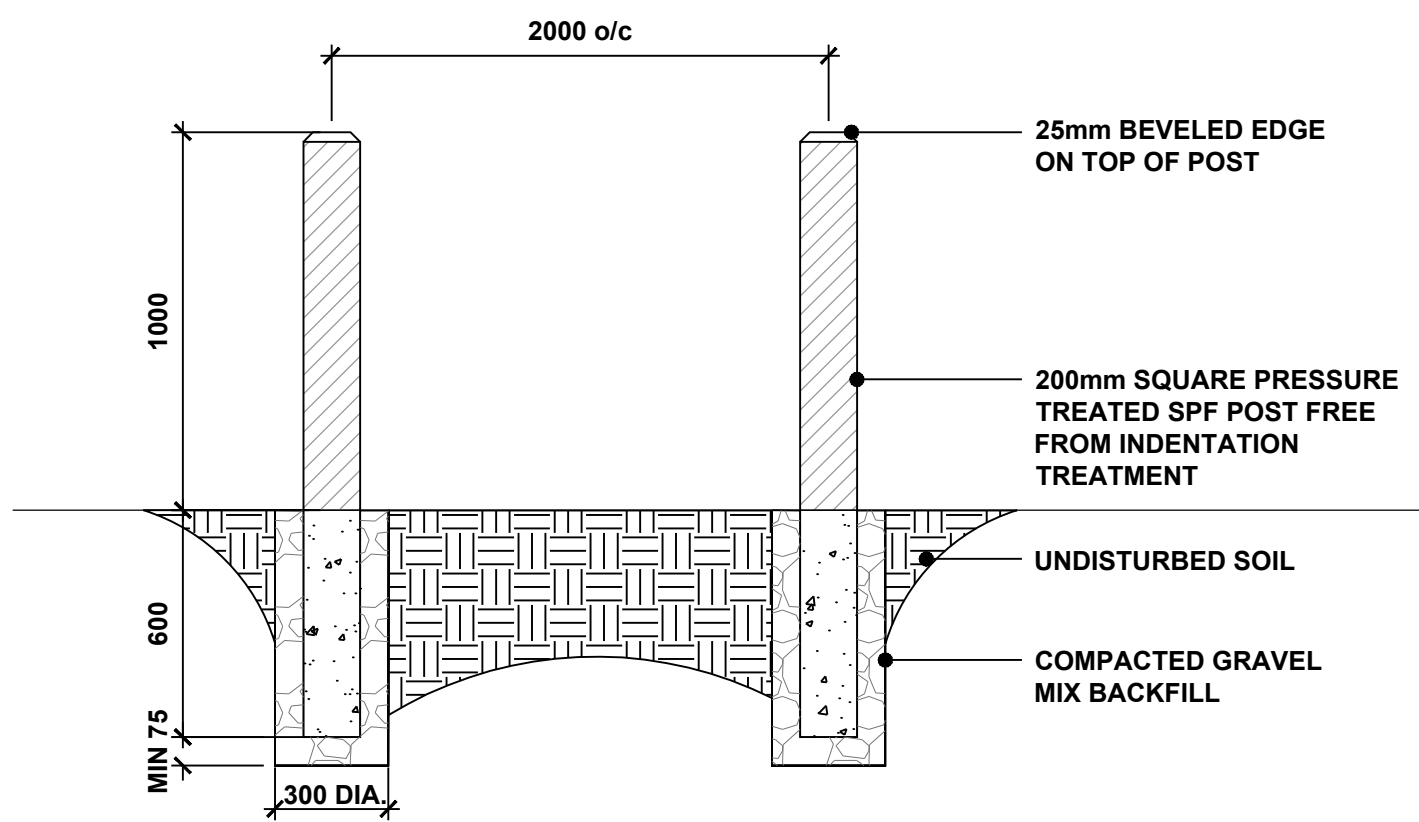
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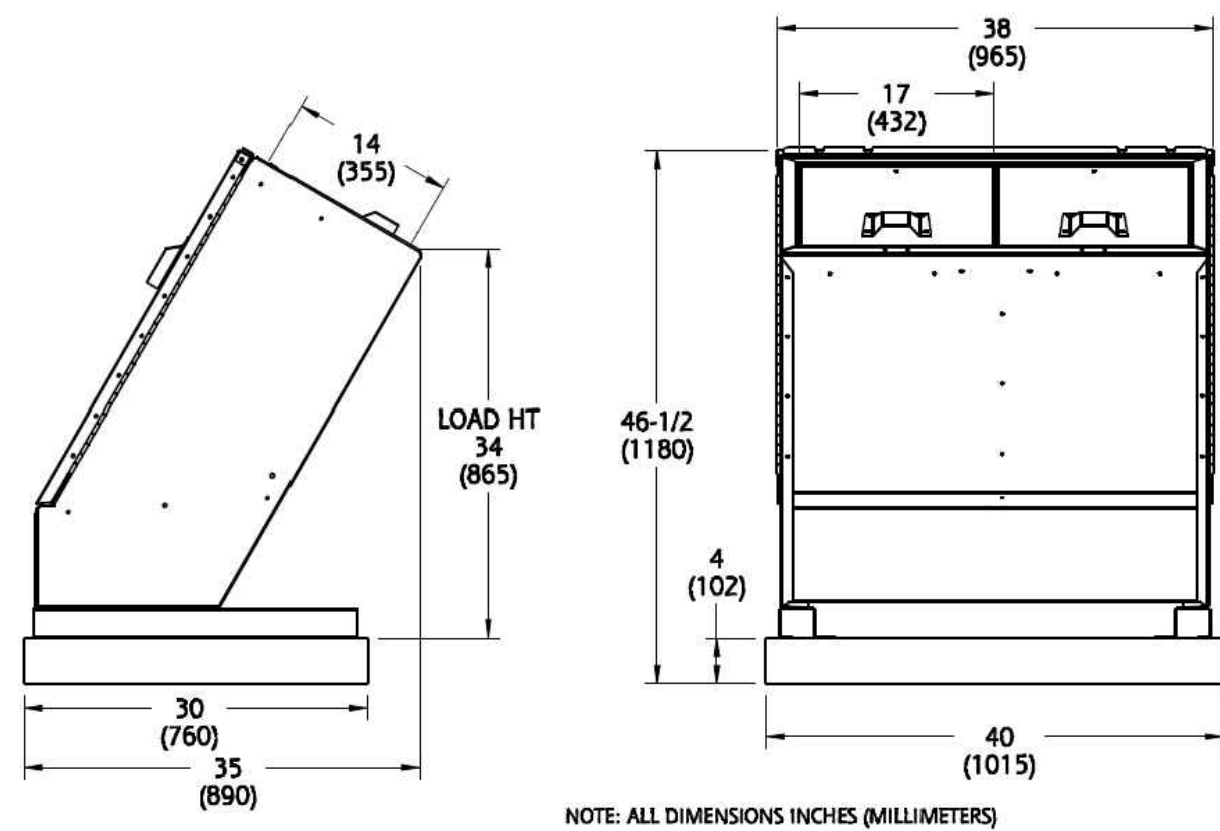
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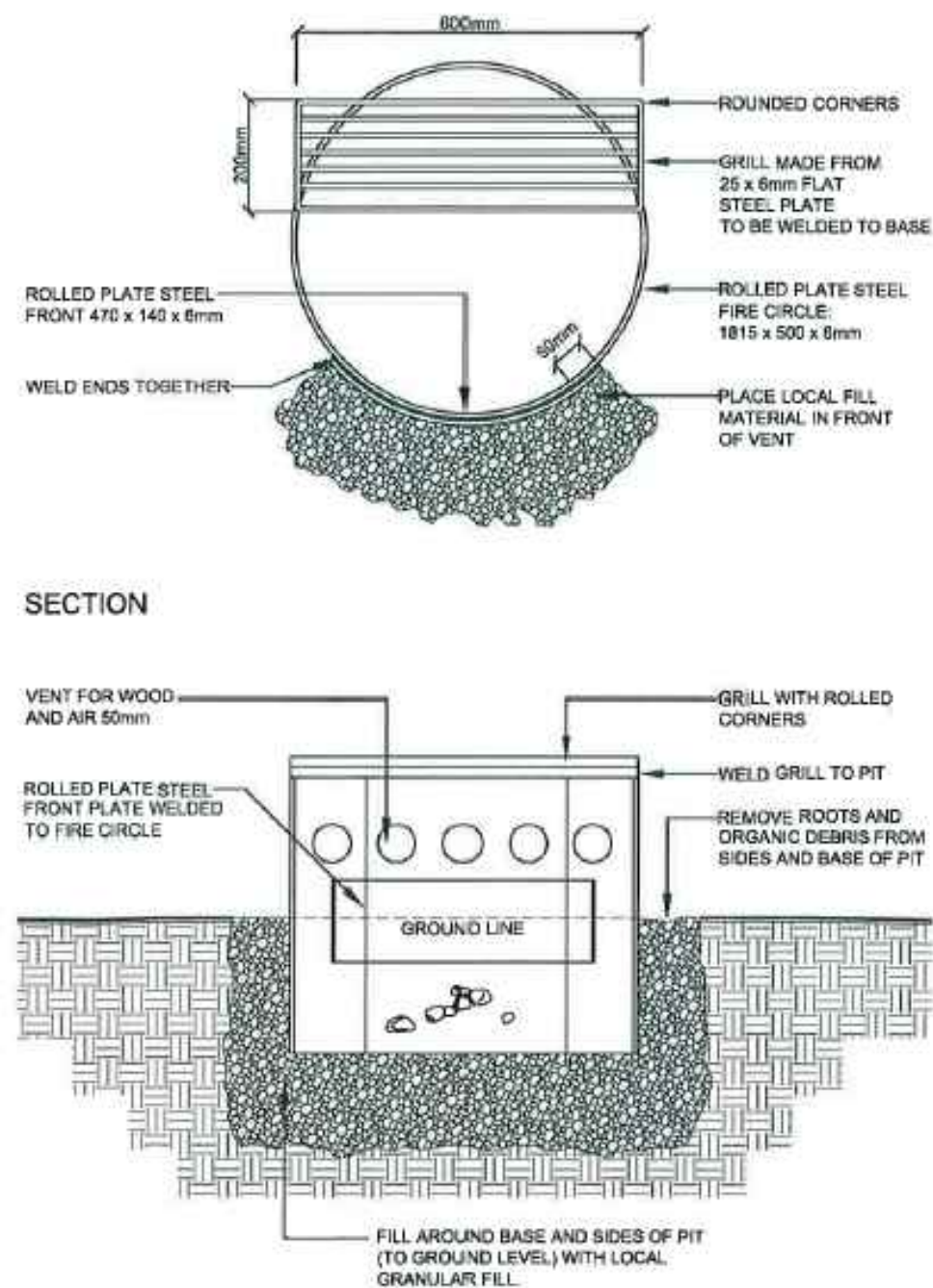
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July 21, 2016, 16:04:06  
Project: NOT FOR CONSTRUCTION



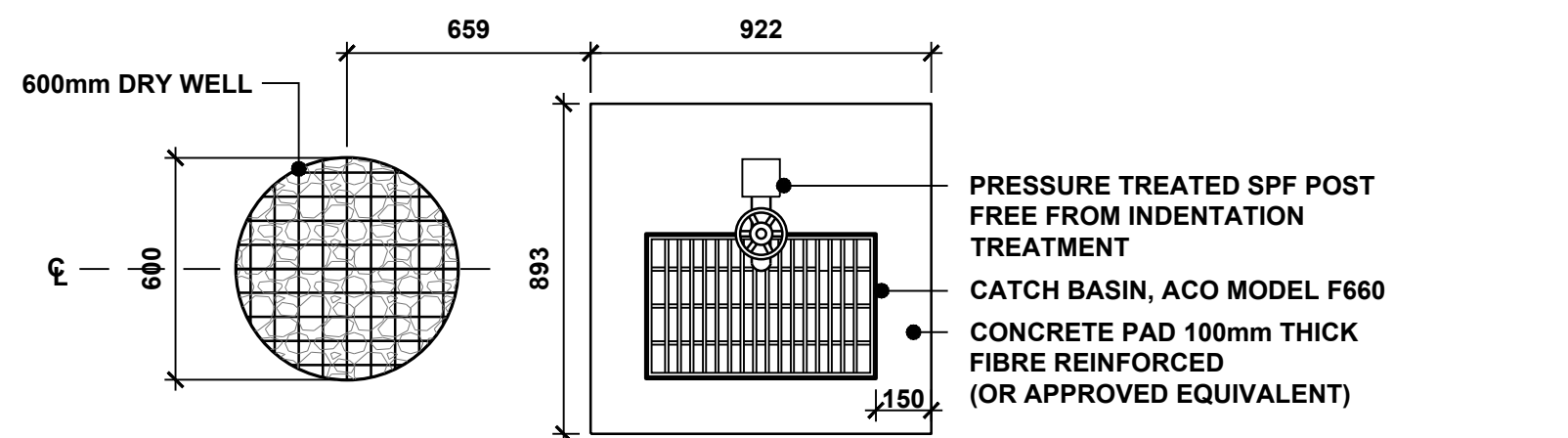
**WOOD BOLLARD**  
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**L7.4**



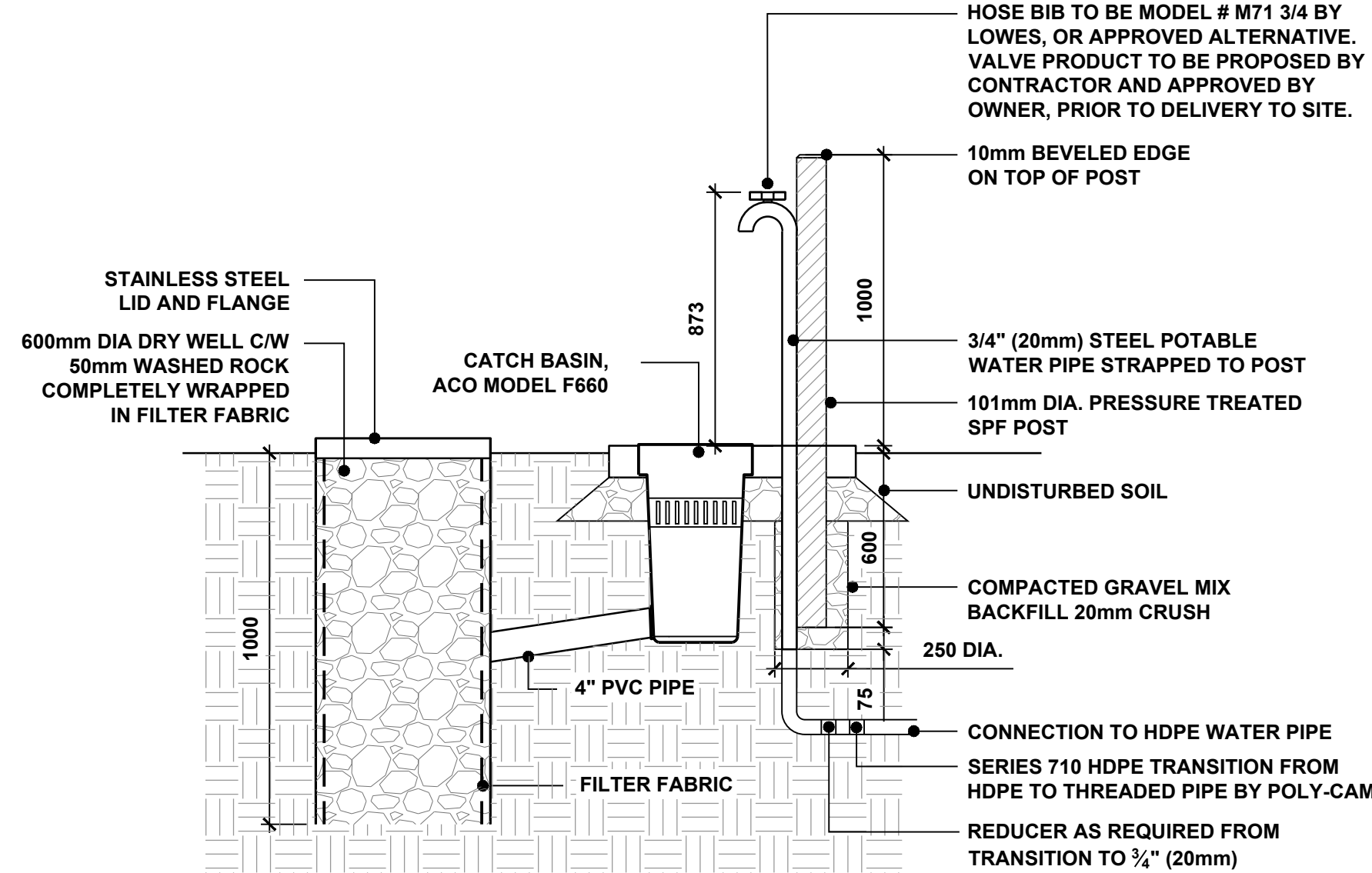
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SCALE NTS  
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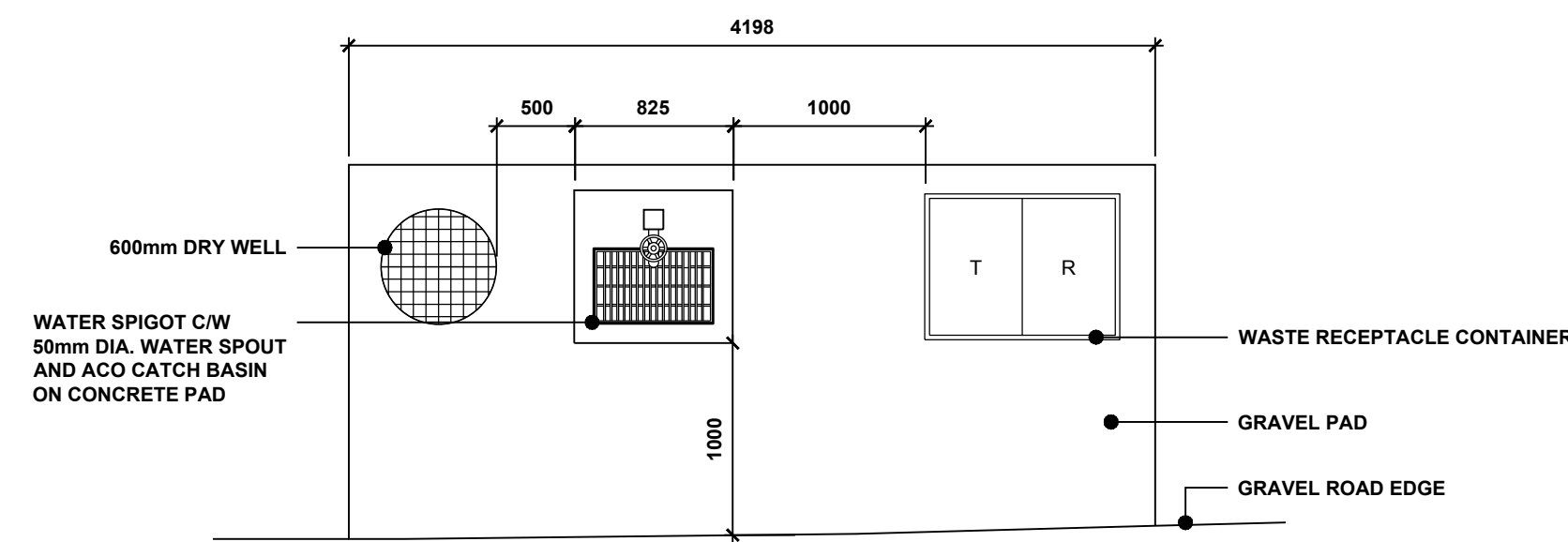
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**L7.4**



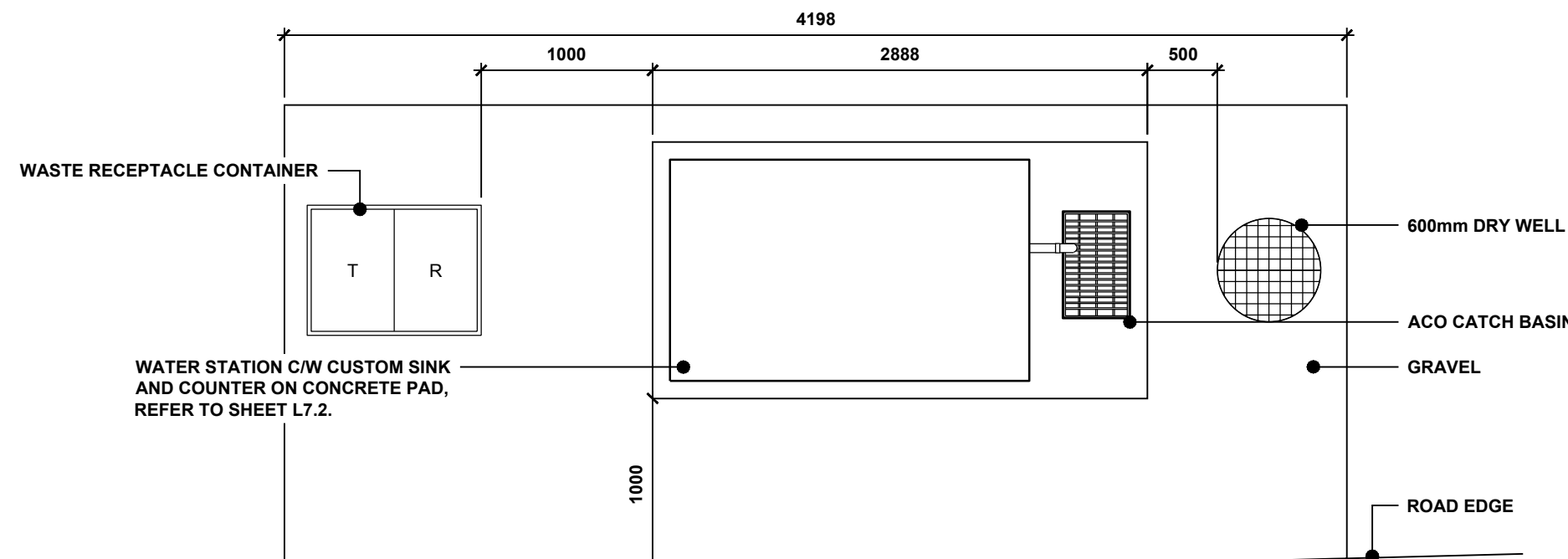
**WATER SPIGOT PLAN VIEW**  
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**L7.4**



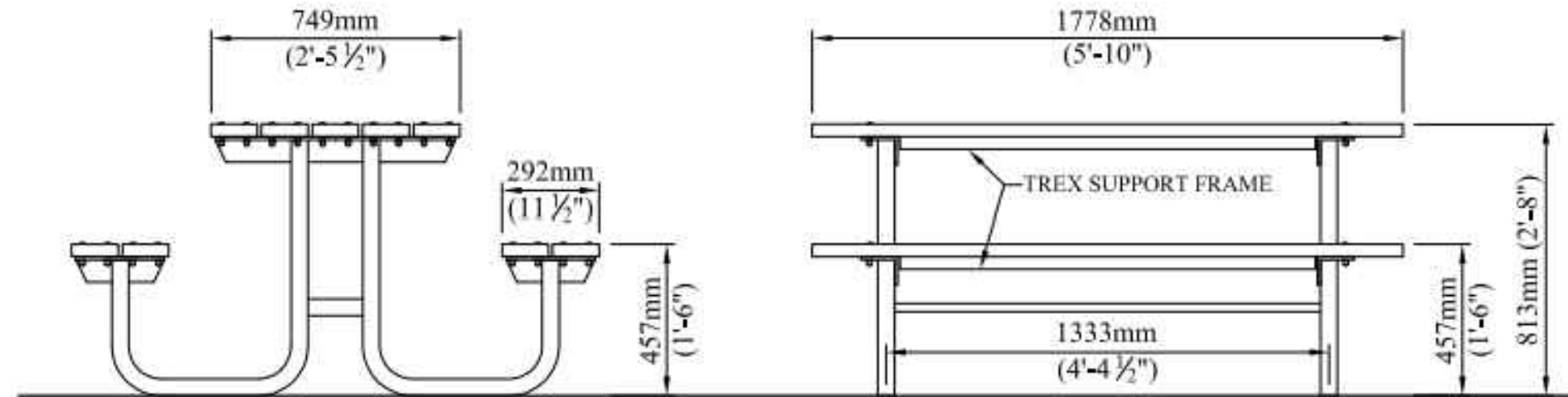
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**L7.4**



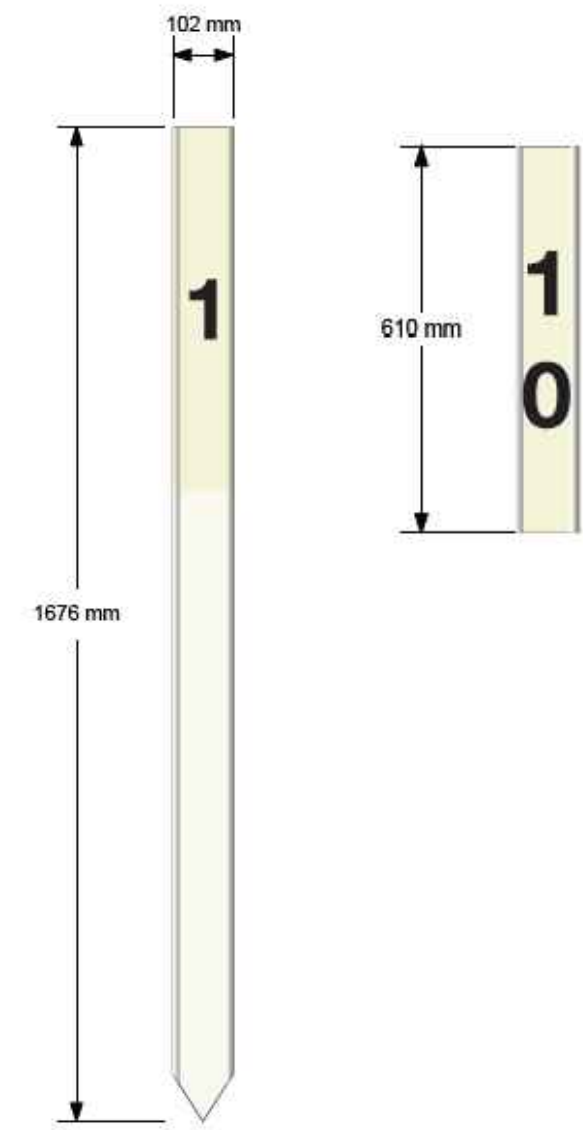
**WATER SPIGOT PAD DETAIL**  
SCALE NTS  
**L7.4**



**WATER STATION PAD DETAIL**  
SCALE NTS  
**L7.4**



**MOVEABLE PICNIC TABLE**  
NTS  
**L7.4**



**CAMPSITE MARKER**  
NTS  
**L7.4**

NOTE: PICNIC TABLE TO BE SERIES BR  
PICNIC TABLE BY CUSTOM PARKS AND  
LEISURE, OR APPROVED ALTERNATE.

NOTE: CAMPSITE MARKER TO BE FREN\_006  
BY ASTROGRAPHIC INDUSTRIES LTD., OR  
APPROVED ALTERNATE.

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02	APR.15.16	ISSUED FOR 95% CLIENT REVIEW	DD	KW/GH
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DD	KW/GH
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
---	------------------------------------

Client/client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---------------	---	---

Consultant's Name  
Nom de l'expert-conseil



Project title/Titre du projet  
**ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01**  
GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin

**FURNISHING DETAILS**

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DDING	Date/Date JUL 21 2016
Designed by/Concept par GH	Reviewed by/Revisé par KWIGH	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

Client Acceptance/Acceptation du client  
Approved by/Approuvé par

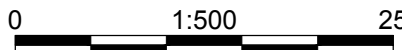
Parks Canada Responsible Officer/Agent Responsable Project No./No. du projet	Parks Canada Project Manager/Administrateur de Projets Asset No./No. du bien	Sheet No./ No. de la feuille
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Drawing Reference No./No. de référence du dessin  
2711 16012 - 00  
**L7.4**

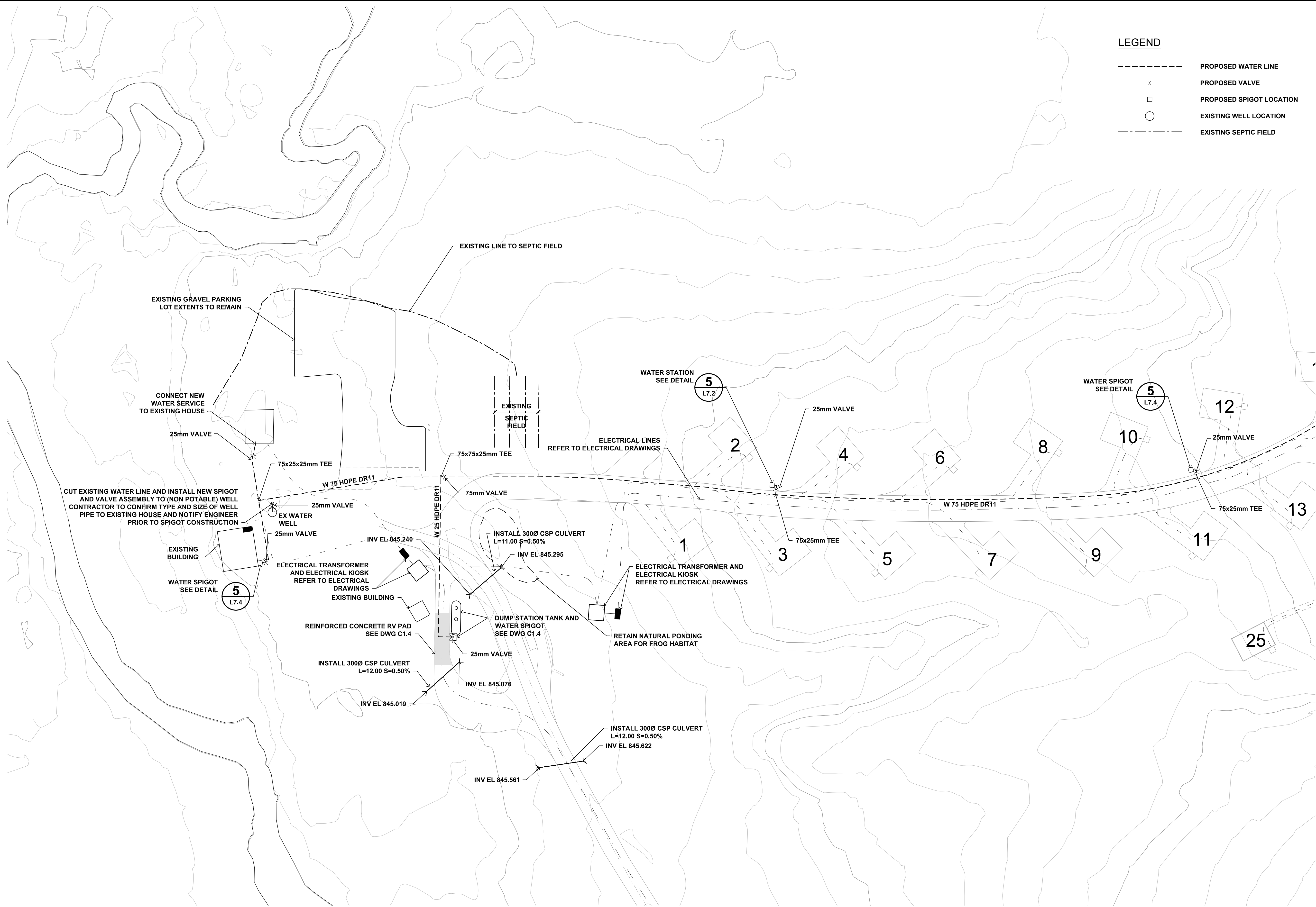


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Plotter:

1  
WATER SERVICE PLAN  
SCALE 1:500



NOT FOR CONSTRUCTION



LEGEND

- PROPOSED WATER LINE
- x PROPOSED VALVE
- PROPOSED SPIGOT LOCATION
- EXISTING WELL LOCATION
- - - - - EXISTING SEPTIC FIELD

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03	JUL.21.16	ISSUED FOR TENDER	SS	TM
02	JUL.01.16	RE-ISSUED FOR 95% CLIENT REVIEW	SS	TM
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	SS	TM
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
---	------------------------------------

Client/client	Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
---------------	--	---

Consultant's Name Nom de l'expert-conseil	McElhanney
--	------------

Project title/Titre du projet  
**ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01**  
GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin  
**CIVIL  
WATER  
SERVICE PLAN**

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par SS	Date/Date JUL Y 21, 2016
Designed by/Concept par DF	Reviewed by/Revisé par KW/TM	Scale/Echelle 1:500

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
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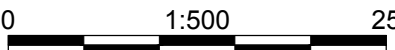
Drawing Reference No./No. de référence du dessin  
2711 16012 - 00

C1.0

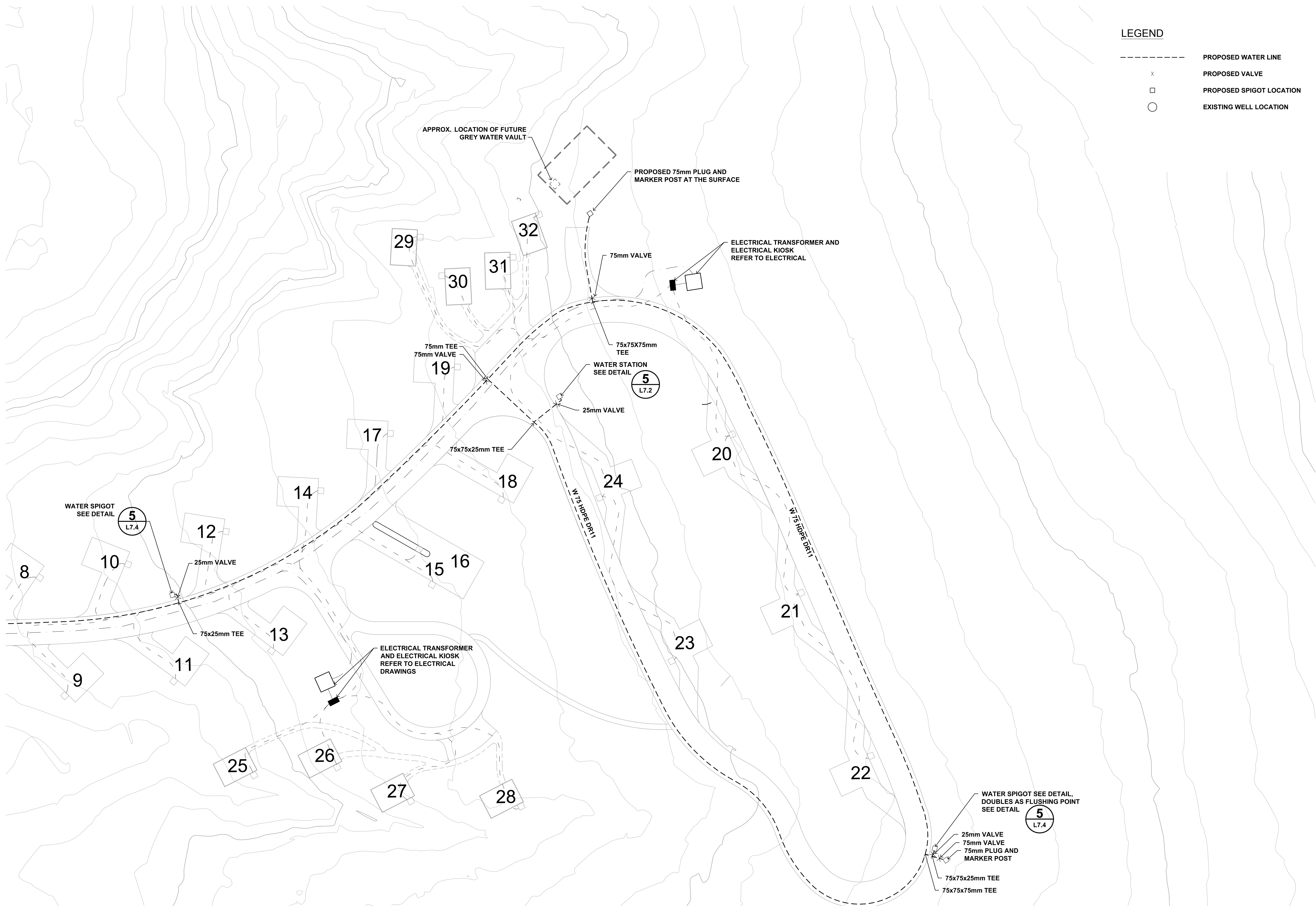


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Plotted:

1  
WATER SERVICE PLAN  
SCALE 1:500



NOT FOR CONSTRUCTION



LEGEND

- PROPOSED WATER LINE
- X PROPOSED VALVE
- PROPOSED SPIGOT LOCATION
- EXISTING WELL LOCATION

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
03	JUL.21.16	ISSUED FOR TENDER	SS	TM
02	JUL.01.16	RE-ISSUED FOR 95% CLIENT REVIEW	SS	TM
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	SS	TM

Revision / Revision
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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
---	------------------------------------

Client/client	Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
---------------	--	---

Consultant's Name Nom de l'expert-conseil	McElhanney
--	------------

Project title/Titre du projet	ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK
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Drawing title/Titre du dessin	CIVIL WATER SERVICE PLAN
-------------------------------	--------------------------------

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par SS	Date/Date JUL Y 21, 2016
Designed by/Concept par DF	Reviewed by/Revisé par KW/TM	Scale/Echelle 1:500

Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT
--

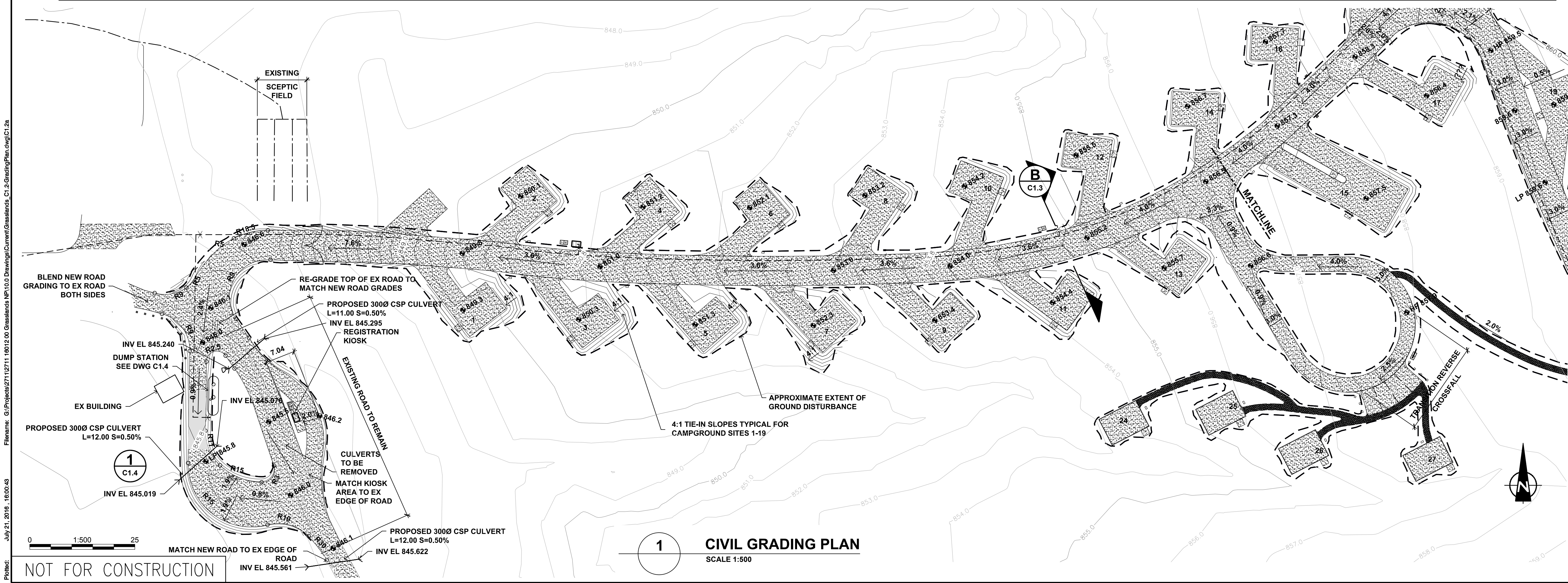
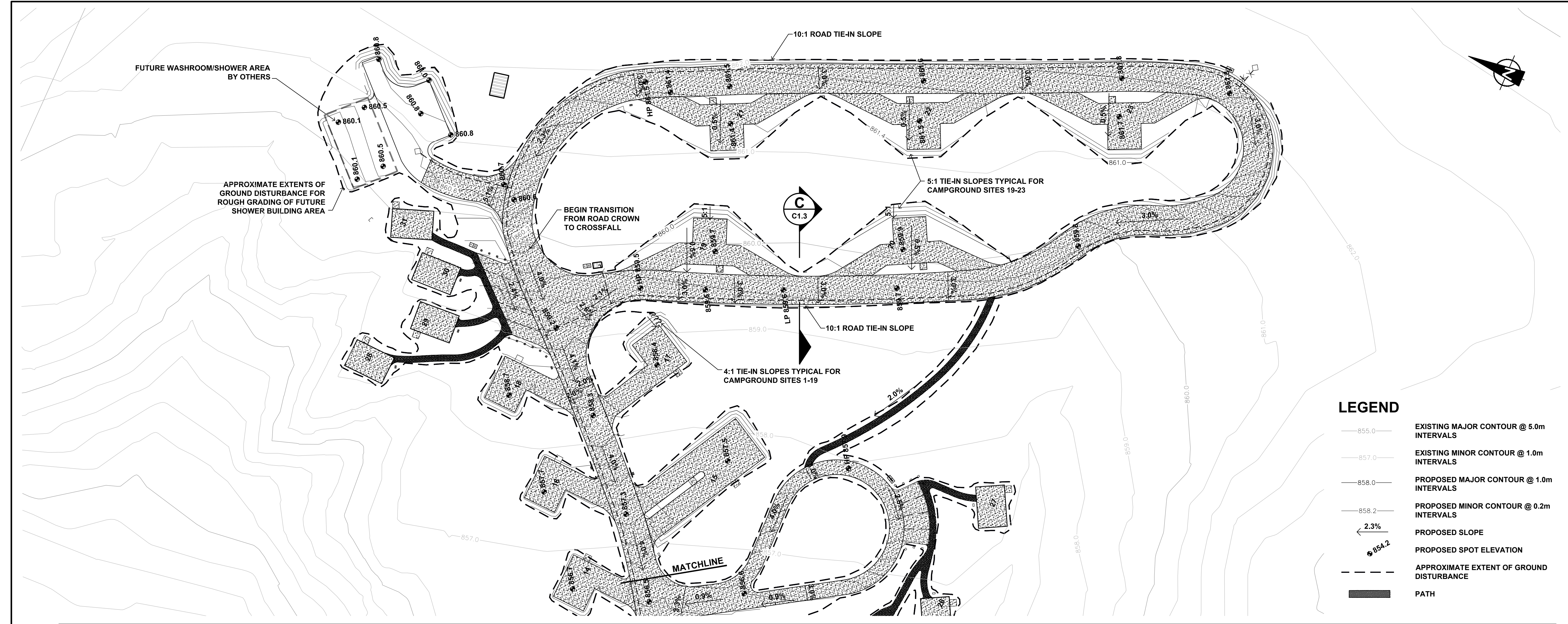
Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
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Drawing Reference No./No. de référence du dessin 2711 16012 - 00	C1.1
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02	JUL.01.16	RE-ISSUED FOR 95% CLIENT REVIEW	SS	TM
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	SS	TM

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/Client	<div><div></div><div><div>Parks Canada Agence Western and Northern Region</div><div>L'Agence Parcs Canada Ouest et Nord Région</div></div></div>
Consultant's Name Nom de l'expert-conseil	<div></div>

Project title/Titre du projet		
ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01		
GRASSLANDS NATIONAL PARK, SK		
Drawing title/Titre du dessin		
CIVIL GRADING PLAN		

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
N/A	SS	JULY 21, 2016
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
DF	KWTM	1:500

Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
COLIN SCHMIDT		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Parks Canada Responsible Officer/Agent Responsable		Parks Canada Project Manager/Administrateur de Projets
Project No./No. du projet		Asset No./No. du bien
		Sheet No./No. de la feuille
Drawing Reference No./No. de référence du dessin		C1.2
2711 16012 - 00		






1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 225mm MAXIMUM RECOMMENDED STORAGE HEIGHT.

03	JUL.21.16	ISSUED FOR TENDER	SS	TM
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01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	SS	TM
No.	Date/Date	Description/Description	Drawn by Designé par	Approved Approuvé

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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	
	<p>Parks Canada Agence Western and Northern Region</p>
	<p>L'Agence Parcs Canada Ouest et Nord Région</p>



**McElhanney**

Project title/Titre du projet

ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01  
GRASSLANDS NATIONAL PARK, SK

## CIVIL DETAILS

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par SS	Date/Date JULY 21, 2016
Designed by/Concept par DF	Reviewed by/Revisé par KW/TM	Scale/Échelle 1:50 1:100

Parks Canada Project Manager/Administrateur de Projets Parcs Canada  
COLIN SCHMIDT

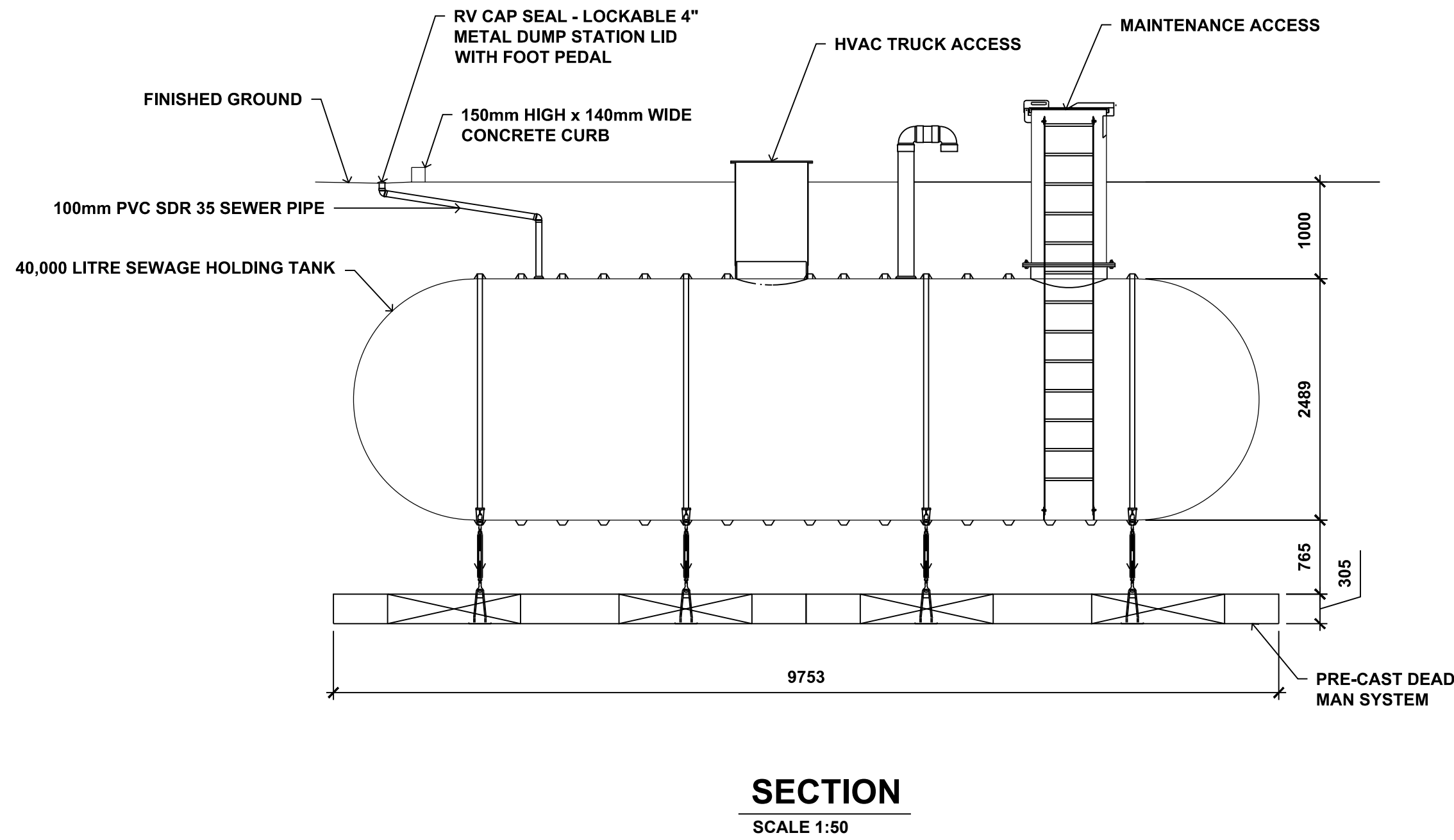
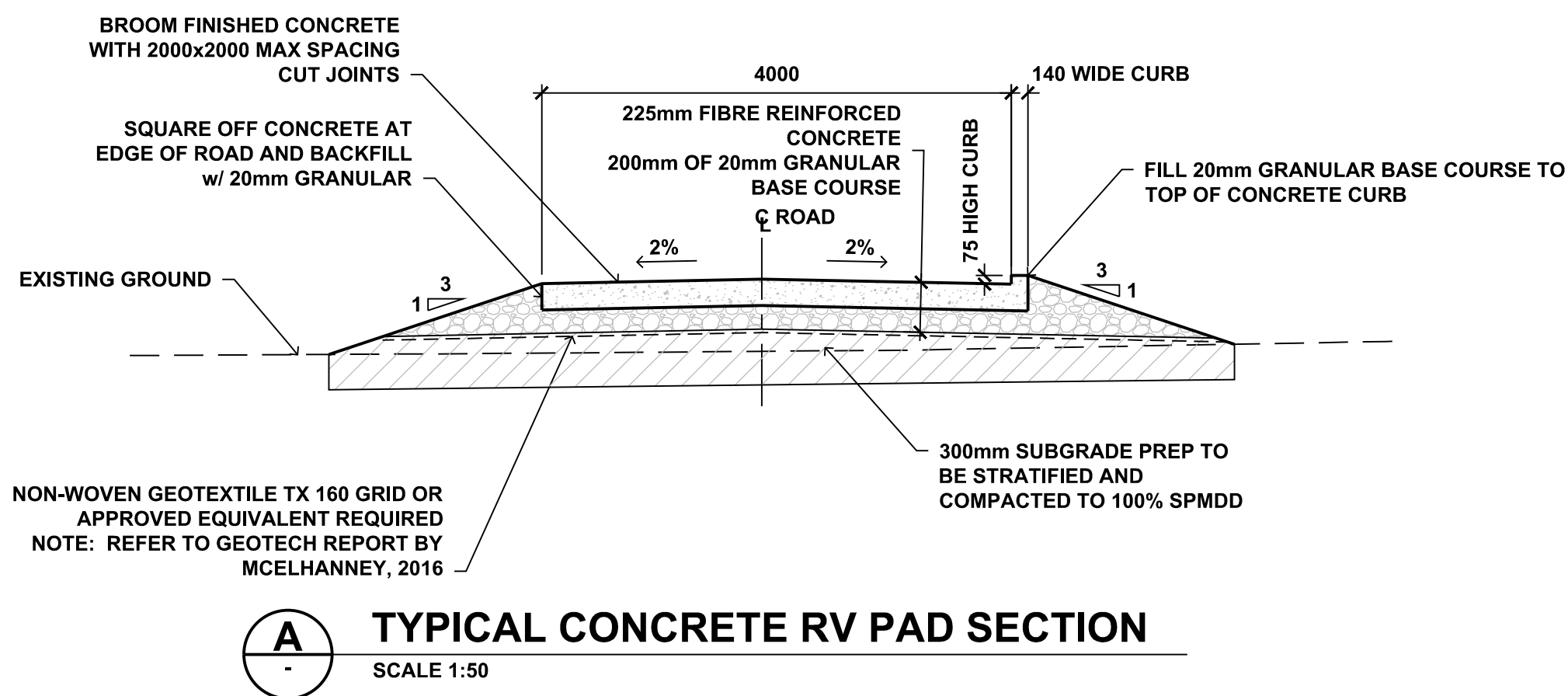
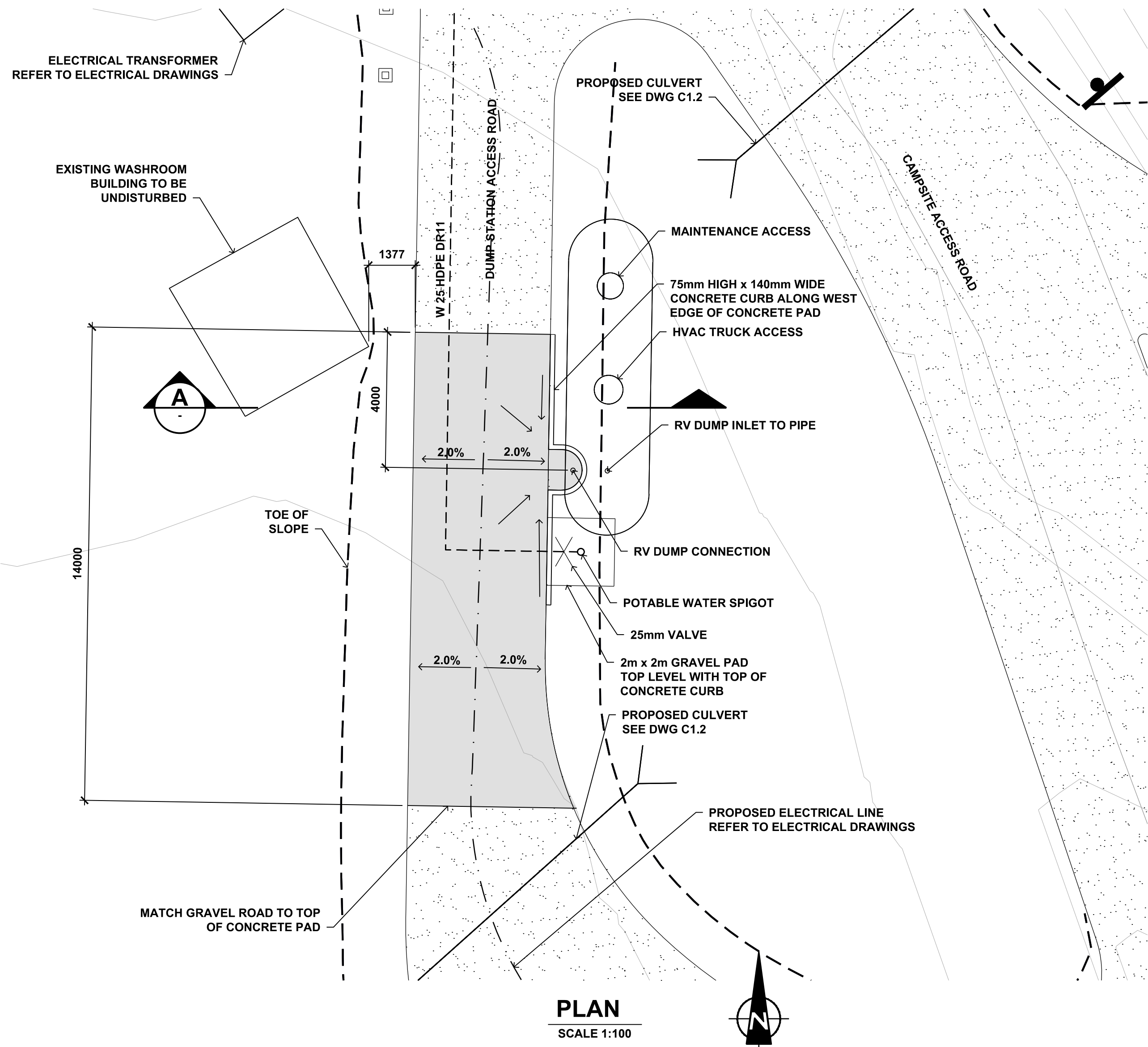
Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Parks Canada Responsible Officer/Agent Responsable Parcs Canada		Parks Canada Project Manager/Administrateur de Projets Parcs Canada
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille

Drawing Reference No./No. de référence du dessin 2711 16012 - 00	<b>C1.3</b>
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July 21, 2016 15:58:14  
Filename: G:\Projects\271102711 16012 00 Grasslands NP 10.0 Drawings\Current\Grasslands\_C1.4.Dump&Water Treatment.dwg C1.4  
Plotter:



RV DUMP STATION - DETAIL

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03	JUL.21.16	ISSUED FOR TENDER	SS	TM
02	JUL.01.16	RE-ISSUED FOR 95% CLIENT REVIEW	SS	TM
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	SS	TM

Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
---	------------------------------------

Client/client	Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
---------------	--	---

Consultant's Name Nom de l'expert-conseil	McElhanney
--	------------

Project title/Titre du projet	ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK
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Drawing title/Titre du dessin	CIVIL SERVICING DETAILS
-------------------------------	----------------------------

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par SS	Date/Date JUL Y 21, 2016
Designed by/Concept par DF	Reviewed by/Revisé par KW/TM	Scale/Echelle 1:50 1:100

Parks Canada Project Manager/Administrateur de Projets Parcs Canada	COLIN SCHMIDT
---	---------------

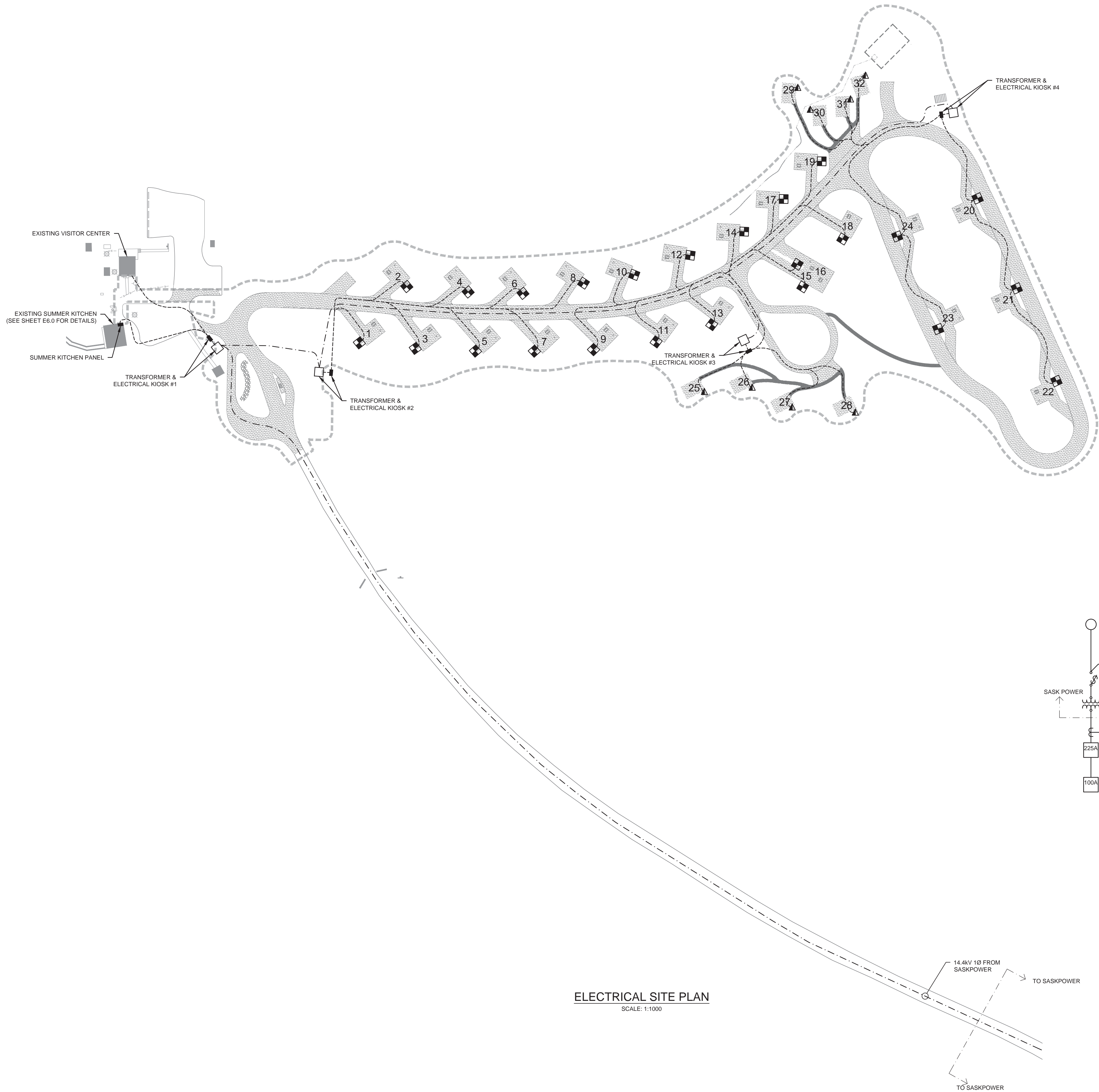
Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
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Drawing Reference No./No. de référence du dessin	2711 16012 - 00	C1.4
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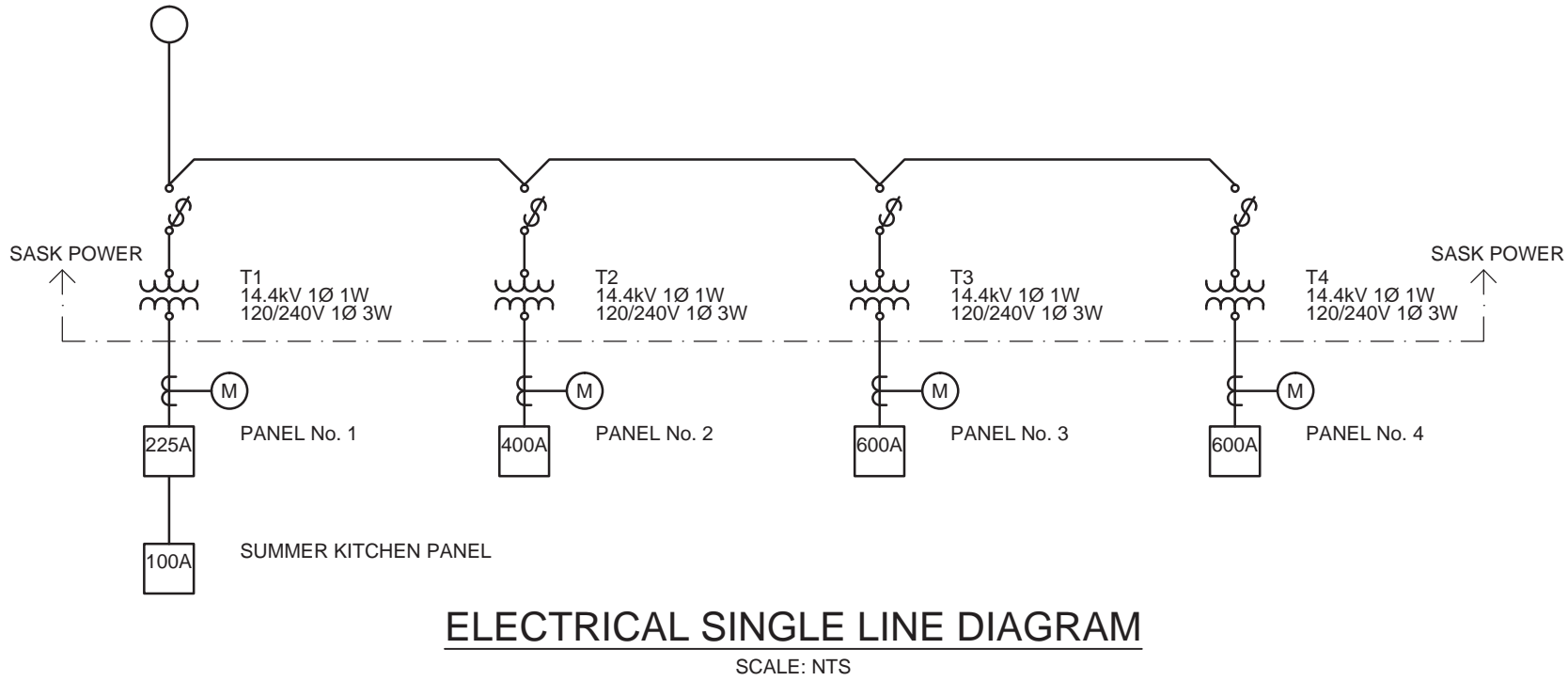




ELECTRICAL SITE PLAN  
 SCALE: 1:1000

POWER & COMMUNICATION SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	NOTES
	50A RV PEDESTAL REFER TO DETAIL ON SHEET E5.0	
	30A RV PEDESTAL REFER TO DETAIL ON SHEET E5.0	
	PAD MOUNT LOW PROFILE TRANSFORMER	
	ELECTRICAL SERVICE KIOSK - SEE PANEL SCHEDULES FOR DETAILS	
	SASKPOWER 14.4KV PRIMARY CABLE	
	DIRECT BURIAL 240V 4C ELECTRICAL CABLE	

SINGLE LINE SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	NOTES
	FUSED CUTOUT (SERVICE AUTHORITY)	
	CURRENT TRANSFORMER AND UTILITY METER	
	TRANSFORMER	





ELECTRICAL SINGLE LINE DIAGRAM  
 SCALE: NTS

- NOTES:
1. INSTALLATION TO BE COMPLETED AS PER THE CANADIAN ELECTRICAL CODE 2015 EDITION
  2. SUPPLY AND INSTALLATION OF 14.4KV/120/240V TRANSFORMERS TO BE COMPLETED BY SASKPOWER
  3. SUPPLY AND INSTALLATION OF 14.4KV CABLE TO BE COMPLETED BY SASKPOWER
  4. PANELS REQUIRE AN ARC FLASH HAZARD LABEL
  5. EXACT PEDESTAL & TRANSFORMER LOCATIONS ARE TO BE CONFIRMED ON SITE WITH OWNER/CONSULTANT PRIOR TO INSTALLATION.
  6. TRANSFORMERS TO BE A MINIMUM OF 3 METERS FROM ANY COMBUSTIBLE MATERIAL AND 6 METERS FROM A DOOR OR VENTILATION OPENING
  7. INDEPENDENT CABLE RUNS TO EACH SITE.

DRAWING LIST		
NO.	TITLE	SCALE
E1.0	ELECTRICAL SITE PLAN & SINGLE LINE DIAGRAM	1 : 1000
E2.0	ELECTRICAL SITE PLAN - TRANSFORMERS 1 & 2	1 : 400
E3.0	ELECTRICAL SITE PLAN - TRANSFORMERS 3 & 4	1 : 400
E4.0	ELECTRICAL SPECIFICATIONS & PANEL SCHEDULES	NOT TO SCALE
E5.0	ELECTRICAL 30A AND 50A RV PEDESTALS DETAILS AND WIRING DIAGRAMS	AS NOTED
E6.0	ELECTRICAL KIOSK AND TRENCH DETAILS	AS NOTED
E7.0	ELECTRICAL SUMMER KITCHEN DETAILS	AS NOTED

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03	JUL.01.16	REISSUED FOR 95% CLIENT REVIEW	DH	LL
02	APR.15.16	ISSUED FOR 95% CLIENT REVIEW	DH	LL
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DH	LL
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
Consultant's Stamp Sceau de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur	
Client/client				
		Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région	
Consultant's Name Nom de l'expert-conseil				
 <b>McElhanney</b>				
Project title/Titre du projet				
ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK				
Drawing title/Titre du dessin				
ELECTRICAL SITE PLAN & SINGLE LINE DIAGRAM				
Surveyed by/Arpenté par N/A		Drawn by/Dessiné par DH		Date/Date JUL.21.2016
Designed by/Concept par DH		Reviewed by/Revisé par LL		Scale/Echelle AS SHOWN
Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT				
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Parks Canada Responsible Officer/Agent Responsable Project No./No. du projet 2015xxx		Parks Canada Project Manager/Administrateur de Projets Parcs Canada Asset No./No. du bien 2711 16012 - 00		Sheet No./ No. de la feuille E1.0
Drawing Reference No./No. de référence du dessin 2711 16012 - 00				



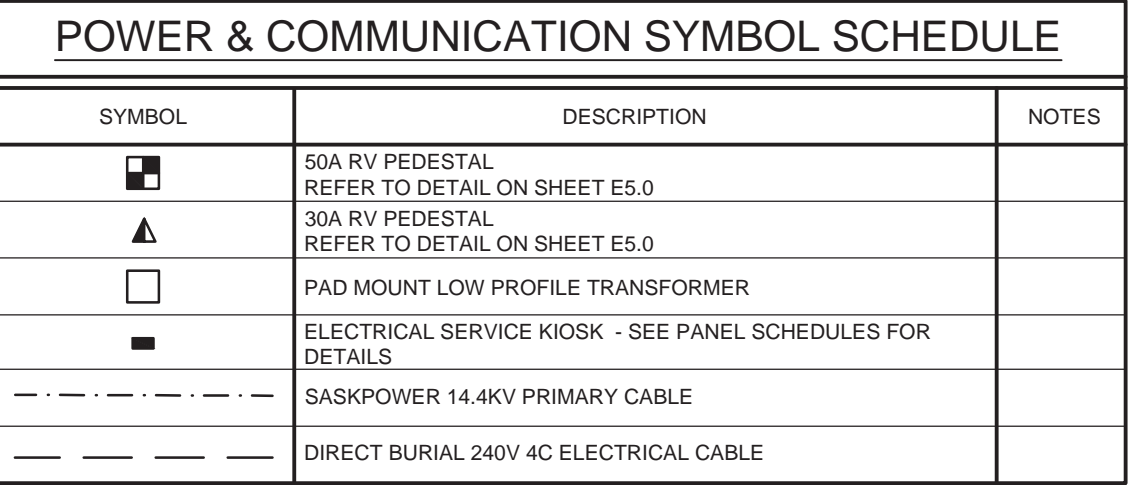


Diagram illustrating the proposed electrical distribution system for the 10000 block of 10th Avenue S. The system includes a main distribution line and eight branches, each serving a building. The buildings are numbered 1 through 8. The distribution line is labeled "14.4 kV 10 BY SASKPOWER" at two points. A transformer and electrical kiosk #2 is located at the bottom left. The diagram also shows connections to Transformer 1 and Sites 9-23.

Key components and labels:

- TO TRANSFORMER 1 (SEE ABOVE)
- 14.4 kV 10 BY SASKPOWER
- TO TRANSFORMER 1 (SEE ABOVE)
- TRANSFORMER & ELECTRICAL KIOSK #2
- 1x 3c #4 ACWU
- 1x 3c #2 ACWU
- 1x 3c #1 ACWU
- 1x 3c #1 ACWU
- 1x 3c #1/0 ACWU
- 1x 3c #1/0 ACWU
- 1x 3c #2/0 ACWU
- TO SITES 9-23 (SEE SHEET 3)
- TO SITES 9-23 (SEE SHEET 3)

1. INSTALLATION TO BE COMPLETED AS PER THE CANADIAN ELECTRICAL CODE 2015 EDITION.
2. SUPPLY AND INSTALLATION OF 14-KV/1202/4KV TRANSFORMERS TO BE COMPLETED BY SASKPOWER.
3. SUPPLY AND INSTALLATION OF 14-KV/4KV CABLE TO BE COMPLETED BY SASKPOWER.
4. PANELS REQUIRE AN ARC FLASH HAZARD LABEL.
5. EXISTING PEDESTAL TRANSFORMER LOCATION ARE TO BE CONFIRMED ON SITE WITH OWNER/CONSULTANT PRIOR TO INSTALLATION.
6. TRANSFORMERS TO BE A MINIMUM OF 3 METERS FROM ANY COMBUSTIBLE MATERIAL AND 6 METERS FROM A DOOR OR VENTILATION OPENING.
7. INDEPENDENT CABLE RUNS TO EACH TRANSFORMER.
8. REMOVE EXISTING VENTILATION CENTER FEED AND REPLACE AS NOTED.

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01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DH	LL

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client

 Parks Canada  
 Agency  
 Western and  
 Northern Region

L'Agence Parcs  
 Canada  
 Ouest et Nord  
 Région

Consultant's Name Nom de l'expert-conseil	
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Project title/Titre du projet

ROCK CREEK CAMPGROUND  
AND DAY USE AREA  
PHASE 01  
GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin

# ELECTRICAL SITE PLAN

## TRANSFORMERS 1 & 2

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DH	Date/Date JUL.21.2016
Designed by/Concept par DH	Reviewed by/Revisé par LL	Scale/Échelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

COLIN SCHMIDT

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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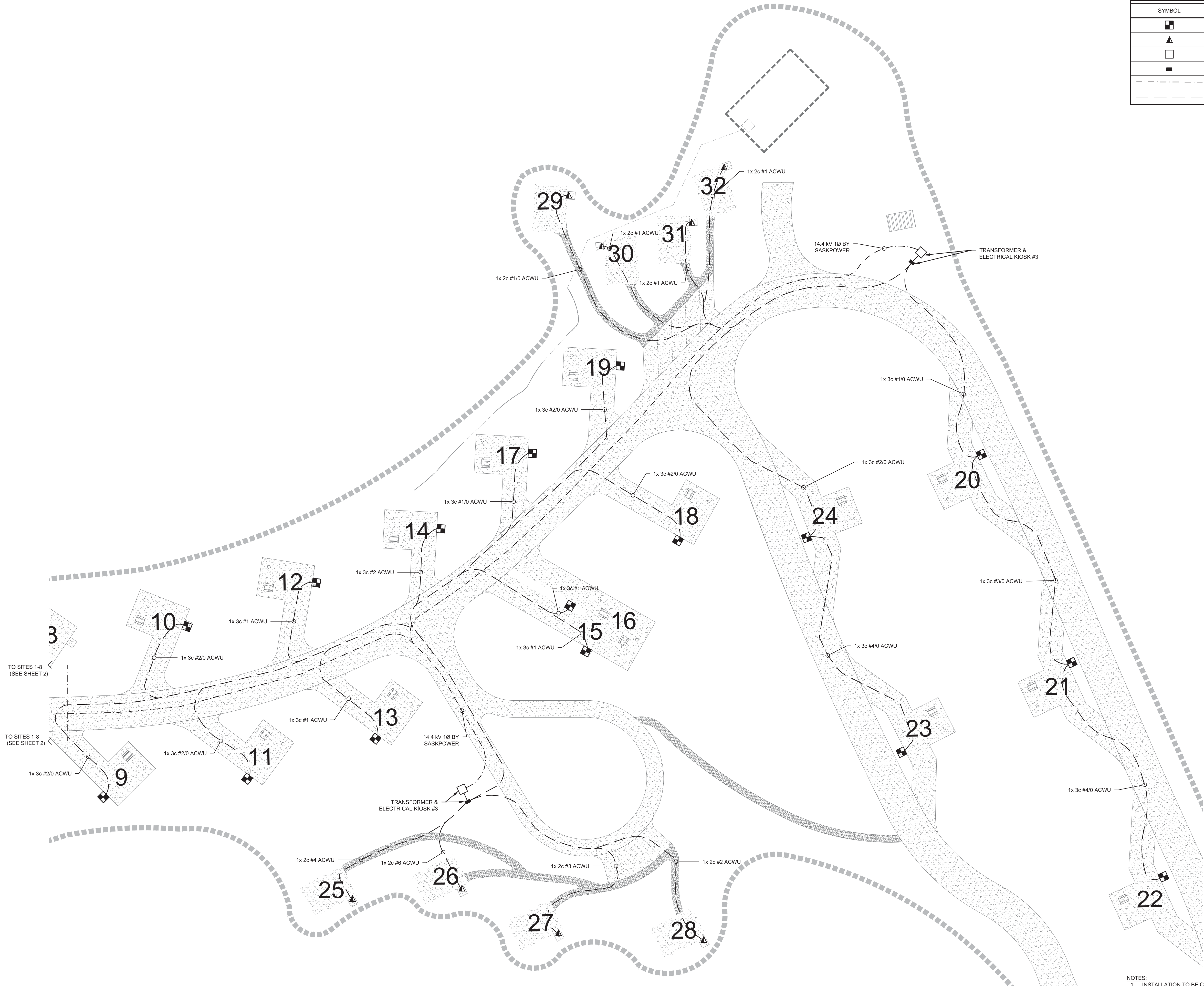
Parks Canada Responsible Officer/Agent Responsable Parcs Canada		Parks Canada Project Manager/Administrateur de Projets Parcs Canada
Project No./No. du projet  2015xxx	Asset No./No. du bien	Sheet No./ No. de la feuille

o./No. de référence du dessin  
2711 16012 - 00

## E2.0



Project: July 20, 2016 12:03:49  
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ELECTRICAL SITE PLAN TRANSFORMERS T3 AND T4

SCALE: 1:400

- NOTES:
1. INSTALLATION TO BE COMPLETED AS PER THE CANADIAN ELECTRICAL CODE 2015 EDITION
  2. SUPPLY AND INSTALLATION OF 14.4KV 120/240V TRANSFORMERS TO BE COMPLETED BY SASKPOWER
  3. SUPPLY AND INSTALLATION OF 14.4KV CABLE TO BE COMPLETED BY SASKPOWER
  4. PANELS REQUIRE AN ARC FLASH HAZARD LABEL
  5. EXACT PEDESTAL & TRANSFORMER LOCATIONS ARE TO BE CONFIRMED ON SITE WITH OWNER/CONSULTANT PRIOR TO INSTALLATION
  6. TRANSFORMERS TO BE A MINIMUM OF 3 METERS FROM ANY COMBUSTIBLE MATERIAL AND 6 METERS FROM A DOOR OR VENTILATION OPENING
  7. INDEPENDENT CABLE RUNS TO EACH SITE

POWER & COMMUNICATION SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	NOTES
	50A RV PEDESTAL REFER TO DETAIL ON SHEET E5.0	
	30A RV PEDESTAL REFER TO DETAIL ON SHEET E5.0	
	PAD MOUNT LOW PROFILE TRANSFORMER	
	ELECTRICAL SERVICE KIOSK - SEE PANEL SCHEDULES FOR DETAILS	
	SASKPOWER 14.4KV PRIMARY CABLE	
	DIRECT BURIAL 240V 4C ELECTRICAL CABLE	

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01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DH	LL

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Client/client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
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Consultant's Name Nom de l'expert-conseil
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Project title/Titre du projet
ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK

Drawing title/Titre du dessin
ELECTRICAL SITE PLAN TRANSFORMERS 3 & 4

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DH	Date/Date JUL.21.2016
Designed by/Concept par DH	Reviewed by/Revisé par LL	Scale/Echelle AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT		
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Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Drawing Reference No./No. de référence du dessin 2711 16012 - 00
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ELECTRICAL SPECIFICATION

1. SCOPE OF WORK
  - 1.1. PROVIDE ALL NECESSARY LABOUR, MATERIALS, TOOLS, TRANSPORTATION, SERVICES AND FACILITIES REQUIRED FOR THE COMPLETE ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
  - 1.2. PROVIDE ALL NECESSARY LABOUR, MATERIALS, EQUIPMENT, DEVICES AND APPARATUS NOT MENTIONED IN THE SPECIFICATIONS, OR SHOWN ON THE DRAWINGS AS REQUIRED FOR THE COMPLETE ELECTRICAL INSTALLATION.
2. CODE, RULES AND REGULATIONS
  - 2.1. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE AND APPLICABLE MUNICIPAL AND PROVINCIAL CODES, RULES AND REGULATIONS.
  - 2.2. PROVIDE ALL NECESSARY MATERIALS AND LABOUR REQUIRED TO MEET THE REQUIREMENTS OF THESE CODES, RULES AND REGULATIONS EVEN THOUGH THE WORK MAY NOT BE SHOWN ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS.
3. PERMITS AND FEES
  - 3.1. OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE ELECTRICAL INSTALLATION.
4. CO-OPERATION WITH OTHER TRADES
  - 4.1. CHECK WITH OTHER TRADES TO AVOID DELAYS.
  - 4.2. TRENCHING TO BE COORDINATED WITH OTHER TRADES TO LIMIT COSTS AND GROUND DISTURBANCE.
5. APPROVAL OF MATERIALS
  - 5.1. ELECTRICAL EQUIPMENT SHALL BE NEW AND OF THE TYPE AND QUALITY SPECIFIED.
6. CERTIFICATION OF INSPECTION
  - 6.1. OBTAIN A CERTIFICATE OF INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION OVER THE WORK. CERTIFICATE OF INSPECTION SHALL BE SUBMITTED TO THE ARCHITECT ON COMPLETION OF THE WORK.
7. CLEAN UP
  - 7.1. REMOVE ALL DEBRIS FROM THE SITE AS IT OCCURS, AND DO NOT ALLOW DEBRIS TO ACCUMULATE.
  - 7.2. TOUCH UP ANY EQUIPMENT THAT HAS BEEN DAMAGED DURING CONSTRUCTION WITH MATCHING PAINT.
8. GUARANTEE
  - 8.1. THE SATISFACTORY OPERATION OF ALL WORK AND APPARATUS INCLUDED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE.
  - 8.2. REPLACE FORTHWITH, AT NO ADDITIONAL COST TO THE OWNER, ANY PART WHICH MAY PROVE TO BE DEFECTIVE WITHIN A PERIOD OF TWELVE MONTHS AFTER THE FINAL ACCEPTANCE OF THE COMPLETE BUILDING, PROVIDED THAT SUCH FAILURE IS NOT DUE TO ANY IMPROPER USAGE OR ORDINARY WEAR AND TEAR.
  - 8.3. NO CERTIFICATE GIVEN, PAYMENT MADE, PARTIAL OR ENTIRE USE OF THE EQUIPMENT BY THE OWNER, SHALL BE CONSTRUED AS ACCEPTANCE OF DEFECTIVE WORK.
9. CONDUITS
  - 9.1. CONDUITS TO BE PVC OR DB2.
  - 9.2. IN ALL EMPTY CONDUITS, INSTALL A 200 lb (90 kg) TENSILE STRENGTH POLYETHYLENE PULLING ROPE.
  - 9.3. LOCATIONS OF CONDUIT RUNS SHALL BE PLANNED IN ADVANCE OF THE INSTALLATION AND COORDINATED WITH OTHER TRADES AND SASKPOWER.
  - 9.4. WHERE PRACTICAL, INSTALL CONDUITS IN GROUPS, IN PARALLEL.
  - 9.5. CONDUIT TERMINATIONS EXPOSED AT WEATHERPROOF ENCLOSURES AND CAST OUTLET BOXES SHALL BE MADE.
  - 9.6. ALL FLOOR PENETRATIONS SHALL BE SEALED WATER-TIGHT.
10. CABLE AND WIRE
  - 10.1. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG R90 COPPER.
  - 10.2. ALL 120/240V CABLE TO BE DIRECT BURIAL AS SHOWN ON THE DETAIL DRAWING (SHEET E5.0).
  - 10.3. ALL CABLE TO BE CONTINUOUS. NO SPLICES TO BE USED WITHOUT ENGINEER APPROVAL.
11. PANEL BOARDS
  - 11.1. ALL PANEL BOARDS TO BE MOUNTED INSIDE ELECTRICAL KIOSKS.
  - 11.2. ALL PANEL BOARDS ARE TO BE BONDED TO THE TRANSFORMER GROUND COUNTERPOISE LOOP.
  - 11.3. SUBMIT SHOP DRAWINGS FOR ENGINEER APPROVAL PRIOR TO ORDERING.
  - 11.4. ALL PANELS TO BE BOTTOM ENTRY.
  - 11.5. RATINGS: REFER TO PANEL SCHEDULES SHOWN ON DRAWING.
  - 11.6. BACKFEED BREAKERS SHALL NOT BE UTILIZED IN PLACE OF A MAIN BREAKER.
  - 11.7. FINISH: ALL PAINTED STEEL WORK SHALL BE TREATED WITH A PRIMER COAT AND FINISH COAT OF THE MANUFACTURER'S STANDARD GREEN COLOR OR AS SPECIFIED BY THE CLIENT.
  - 11.8. PANEL BOARDS TO HAVE FLUSH DOORS WITH TWO KEYS FOR EACH PANEL BOARD (ALL KEYS TO BE ALIKE).
  - 11.9. CONDUIT TO BE PROVIDED FOR EACH CIRCUIT IN PANEL PLUS FOUR 2" SPARE CONDUITS FOR FUTURE USE.
  - 11.10. BUSSING
    - 11.10.1. BUSSING SHALL BE RECTANGULAR CROSS SECTION FULL LENGTH TIN PLATED ALUMINUM.
    - 11.10.2. EACH PANEL BOARD SHALL BE EQUIPPED WITH A GROUND BUS SECURED TO THE INTERIOR OF THE ENCLOSURE. THE BUS SHALL BE EQUAL TO THE PANEL BOARD NEUTRAL BUS AND SHALL HAVE A SEPARATE LUG FOR EACH GROUND CONDUCTOR. NOT MORE THAN ONE CONDUCTOR SHALL BE INSTALLED PER LUG.
    - 11.10.3. PANEL BOARD DIRECTORIES: SHALL BE TYPEWRITTEN, ARRANGED IN NUMERICAL ORDER AND SHALL SHOW THE NUMBER OF THE CIRCUIT AS INDICATED. MOUNT TWO COPIES OF DIRECTORIES INSIDE EACH PANEL BOARD.
    - 11.10.4. ACCEPTABLE MANUFACTURERS: SIEMENS, CUTLER HAMMER, SCHNEIDER CANADA.
12. PRIMARY SERVICE
  - 12.1. PRIMARY SERVICE TO BE PROVIDED BY SASKPOWER AND WILL INCLUDE:
    - 12.1.1. LOW PROFILE TRANSFORMER PROCUREMENT AND INSTALLATION
    - 12.1.2. TRANSFORMER PADS
    - 12.1.3. TRANSFORMER GROUNDING
    - 12.1.4. 14 kV CABLE PROCUREMENT AND INSTALLATION
  - 12.2. CONTRACTOR TO COORDINATE INSTALLATION WITH SAKSPOWER
13. PROTECTIVE DEVICES
  - 13.1. ALL BREAKERS TO BE SQUARE D FA TYPE
  - 13.2. CIRCUIT BREAKERS: MOLDED CASE, BOLT-ON, THERMAL MAGNETIC TYPE, 40 DEGREES C. AMBIENT TEMPERATURE COMPENSATED, FIXED MOUNTING, WITH QUICK-MAKE AND QUICK-BREAK SWITCHING MECHANISM MECHANICALLY TRIP-FREE FROM THE OPERATING HANDLE.
  - 13.3. RATINGS: REFER TO DRAWINGS AND PANEL SCHEDULES FOR TRIP FRAME AND POLES REQUIRED. MINIMUM SHORT CIRCUIT RATING FOR 120/240 VOLT BREAKERS IS 10,000 A, IF NOT INDICATED OTHERWISE.
14. GROUNDING
  - 14.1. ENCLOSURES OF EQUIPMENT, RACEWAYS, AND FIXTURES SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED. PROVIDE CODE-SIZED (UNLESS OTHERWISE INDICATED) COPPER, INSULATED GREEN EQUIPMENT GROUND WITH ALL BRANCH AND FEEDER CIRCUIT RUNS. EQUIPMENT GROUND SHALL ORIGINATE AT PANEL BOARD GROUND BUS AND SHALL BE BONDED TO ALL EQUIPMENT ENCLOSURES.
  - 14.2. ISOLATED GROUND CONDUCTORS SHALL TERMINATE ON ISOLATED GROUND BUS AND ISOLATED GROUND LUGS ONLY.
15. IDENTIFICATION
  - 15.1. IDENTIFY ALL ELECTRICAL EQUIPMENT AS INDICATED ON THE SINGLE LINE DIAGRAM.
  - 15.2. COLORS OF LABELS TO BE AS FOLLOWS: BLACK LETTERING ON WHITE BACKGROUND.
16. RECORD DRAWING
  - 16.1. ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT MARKUPS TO ENGINEER FOR RECORD DRAWINGS.
  - 16.2. AS-BUILT MARKUPS ARE TO INDICATE THE FOLLOWING ITEMS:
    - 16.2.1. ALL REVISIONS TO DRAWINGS FROM SITE INSTRUCTIONS AND CHANGE ORDERS ARE TO BE INDICATED.
    - 16.2.1. DEVICE LOCATION AND CIRCUITING WHEN DIFFERING FROM ORIGINAL DRAWINGS.

PANEL No.1									
MOUNTING - PAD MOUNT LOCATION - IN T1 KIOSK				FEEDER SIZE - 3C, 300MCM AWG, AL VOLTAGE - 120/240V, 1Ø, 3W MAIN BUS - 225A MAIN BREAKER - 225A					
NOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	NOTE			
--	EXISTING VISITOR CENTER	125A 01	01	02 100A	SUMMER KITCHEN PANEL	--			
--		125A 03	03	04 100A		--			
--	ENCLOSURE RECEPTACLE	20A 05	05	06 --	--	--			
--	--	-- 07	07	08 --	--	--			
--	--	-- 09	09	10 --	--	--			
--	--	-- 11	11	12 --	--	--			
--	--	-- 13	13	14 --	--	--			
--	--	-- 15	15	16 --	--	--			



PANEL No.3									
MOUNTING - PAD MOUNT LOCATION - IN T3 KIOSK				FEEDER SIZE - 2 X 3C 500MCM, AL VOLTAGE - 120/240V, 1Ø, 3W MAIN BUS - 600A MAIN BREAKER - 600A					
NOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	NOTE			
--	RV SITE 9	50A 01	01	02 50A	RV SITE 10	--			
--		50A 03	03	04 50A		--			
--	RV SITE 11	50A 05	05	06 50A	RV SITE 12	--			
--		50A 07	07	08 50A		--			
--	RV SITE 13	50A 09	09	10 50A	RV SITE 14	--			
--		50A 11	11	12 50A		--			
--	RV SITE 15	50A 13	13	14 50A	RV SITE 16	--			
--		50A 15	15	16 50A		--			
--	RV SITE 17	50A 17	17	18 50A	RV SITE 18	--			
--		50A 19	19	20 50A		--			
--	RV SITE 19	50A 21	21	22 30A	WALK-IN SITE 25	--			
--		50A 23	23	24 30A	WALK-IN SITE 26	--			
--	ENCLOSURE RECEPTACLE	20A 25	25	26 30A	WALK-IN SITE 27	--			
--	--	-- 27	27	28 30A	WALK-IN SITE 28	--			
--	--	-- 29	29	30 --	--	--			
--	--	-- 31	31	32 --	--	--			

SUMMER KITCHEN PANEL									
MOUNTING - WALL MOUNT LOCATION - INSIDE SUMMER KITCHEN				FEEDER SIZE - 3C, #1/0 AWG, AL VOLTAGE - 120/240V, 1Ø, 3W MAIN BUS - 100A MAIN BREAKER - 100A					
NOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	NOTE			
GFCI	INDOOR RECEPTACLES	20A 01	01	02 50A	OUTDOOR RANGE RECEPTACLE	--			
GFCI	INDOOR RECEPTACLES	20A 03	03	04 50A		--			
--	KITCHEN LIGHTING	15A 05	05	06 20A	OUTDOOR RECEPTACLE	--			
--	--	-- 07	07	08 20A	OUTDOOR RECEPTACLE	--			
--	--	-- 09	09	10 --	--	--			
--	--	-- 11	11	12 --	--	--			
--	--	-- 13	13	14 --	--	--			
--	--	-- 15	15	16 --	--	--			

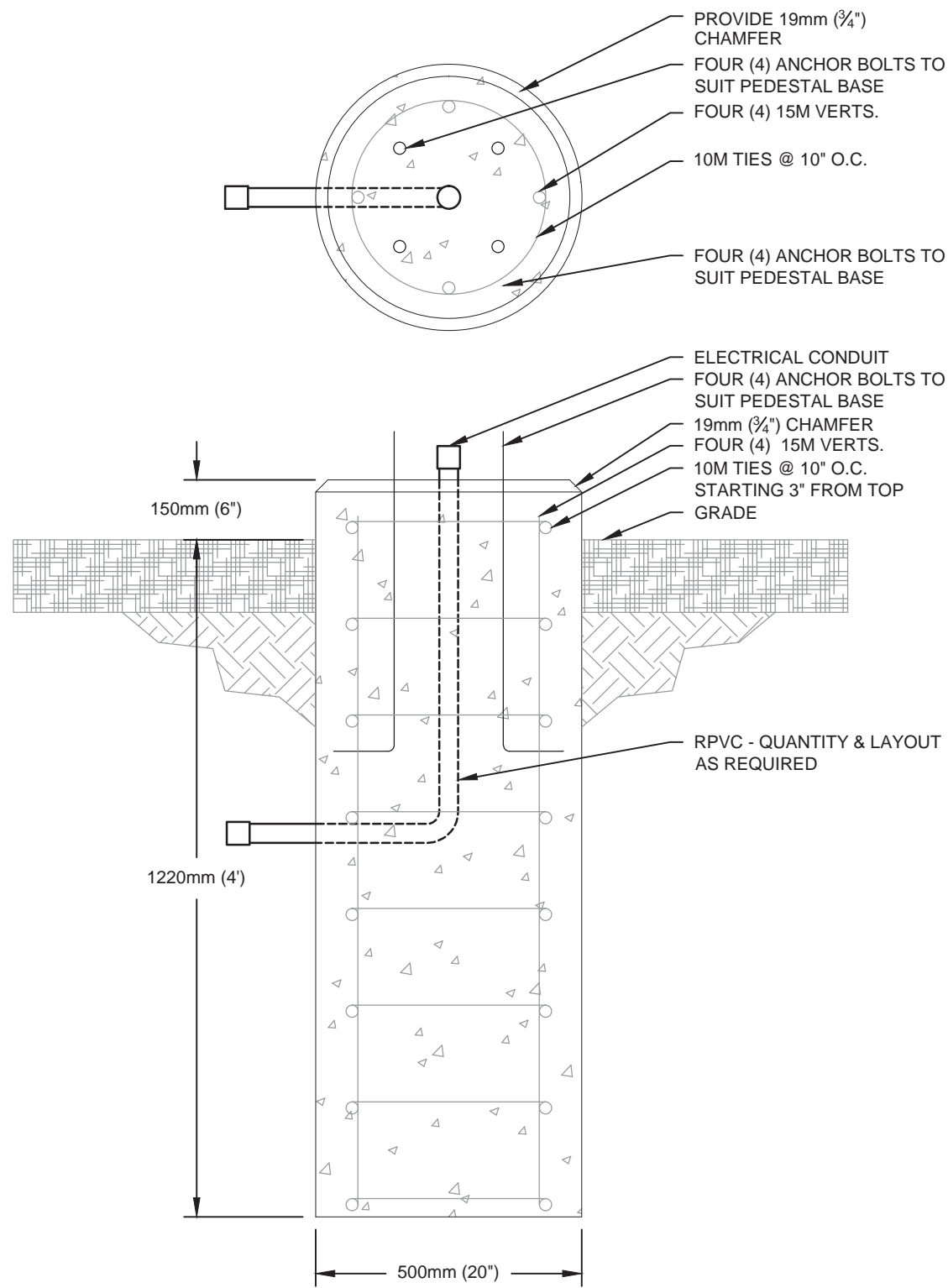
PANEL No.2									
MOUNTING - PAD MOUNT LOCATION - IN T2 KIOSK				FEEDER SIZE - 2 X 3C 250MCM, AL VOLTAGE - 120/240V, 1Ø, 3W MAIN BUS - 400A MAIN BREAKER - 400A					
NOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	NOTE			
--	RV SITE 1	50A 01	01	02 50A	RV SITE 2	--			
--		50A 03	03	04 50A		--			
--	RV SITE 3	50A 05	05	06 50A	RV SITE 4	--			
--		50A 07	07	08 50A		--			
--	RV SITE 5	50A 09	09	10 50A	RV SITE 6	--			
--		50A 11	11	12 50A		--			
--	RV SITE 7	50A 13	13	14 50A	RV SITE 8	--			
--	ENCLOSURE RECEPTACLE	50A 15	15	16 50A		--			
--	--	-- 17	17	18 --	--	--			
--	--	-- 19	19	20 --	--	--			
--	--	-- 21	21	22 --	--	--			
--	--	-- 23	23	24 --	--	--			

PANEL No.4									
MOUNTING - PAD MOUNT LOCATION - IN T4 KIOSK				FEEDER SIZE - 2 X 3C 500MCM, AL VOLTAGE - 120/240V, 1Ø, 3W MAIN BUS - 600A MAIN BREAKER - 600A					
NOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	NOTE			
--	RV SITE 20	50A 01	01	02 50A	RV SITE 21	--			
--		50A 03	03	04 50A		--			
--	RV SITE 22	50A 05	05	06 50A	RV SITE 23	--			
--		50A 07	07	08 50A		--			
--	RV SITE 24	50A 09	09	10 30A	WALK-IN SITE 29	--			
--		50A 11	11	12 30A	WALK-IN SITE 30	--			
--	ENCLOSURE RECEPTACLE	50A 13	13	14 30A	WALK-IN SITE 31	--			
--	--	-- 15	15	16 30A	WALK-IN SITE 32	--			
--	--	-- 17	17	18 --	--	--			
--	--	-- 19	19	20 --	--	--			
--	--	-- 21	21	22 --	--	--			
--	--	-- 23	23	24 --	--	--			
--	--	-- 25	25	26 --	--	--			
--	--	-- 27	27	28 --	--	--			
--	--	-- 29	29	30 --	--	--			
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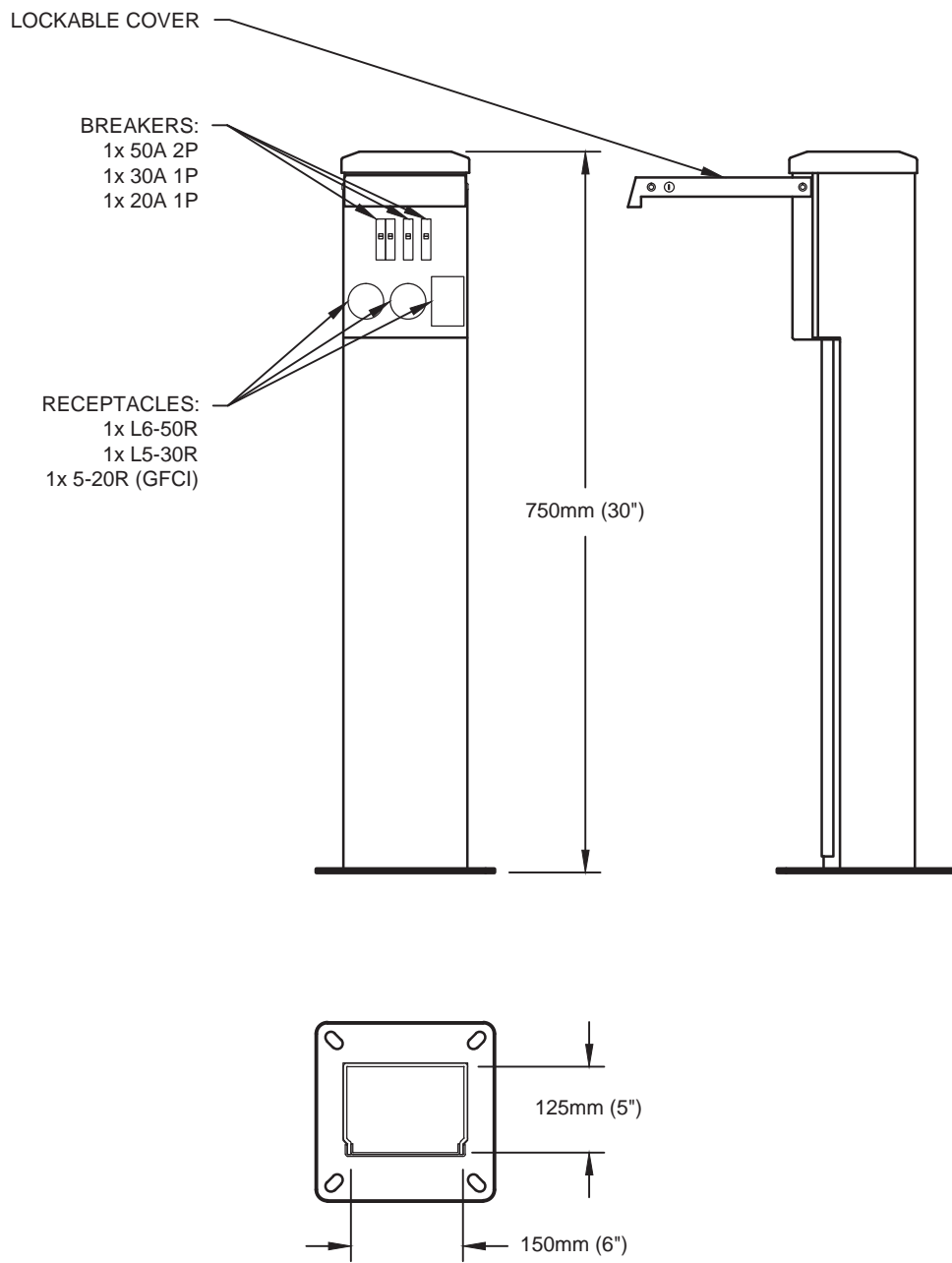
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Project title/Titre du projet				
ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK				
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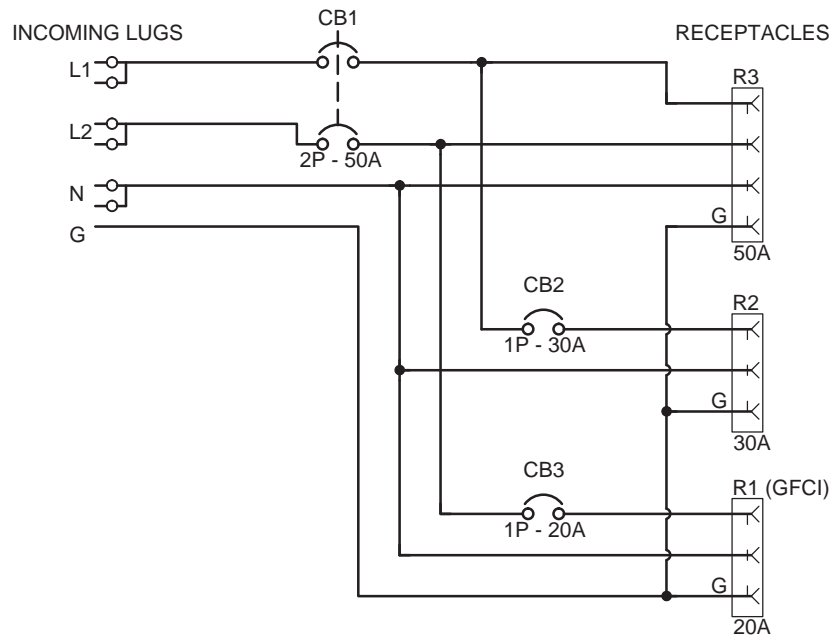
RV PEDESTAL BASE DETAIL  
SCALE: NTS

- PEDESTAL BASE NOTES:
1. CONCRETE TO BE 20MPA 4-8% AIR, 19mm (¾") MAX. AGGREGATE
  2. PROVIDE 19mm (¾") CHAMFER ON ALL EXPOSED CONCRETE EDGES

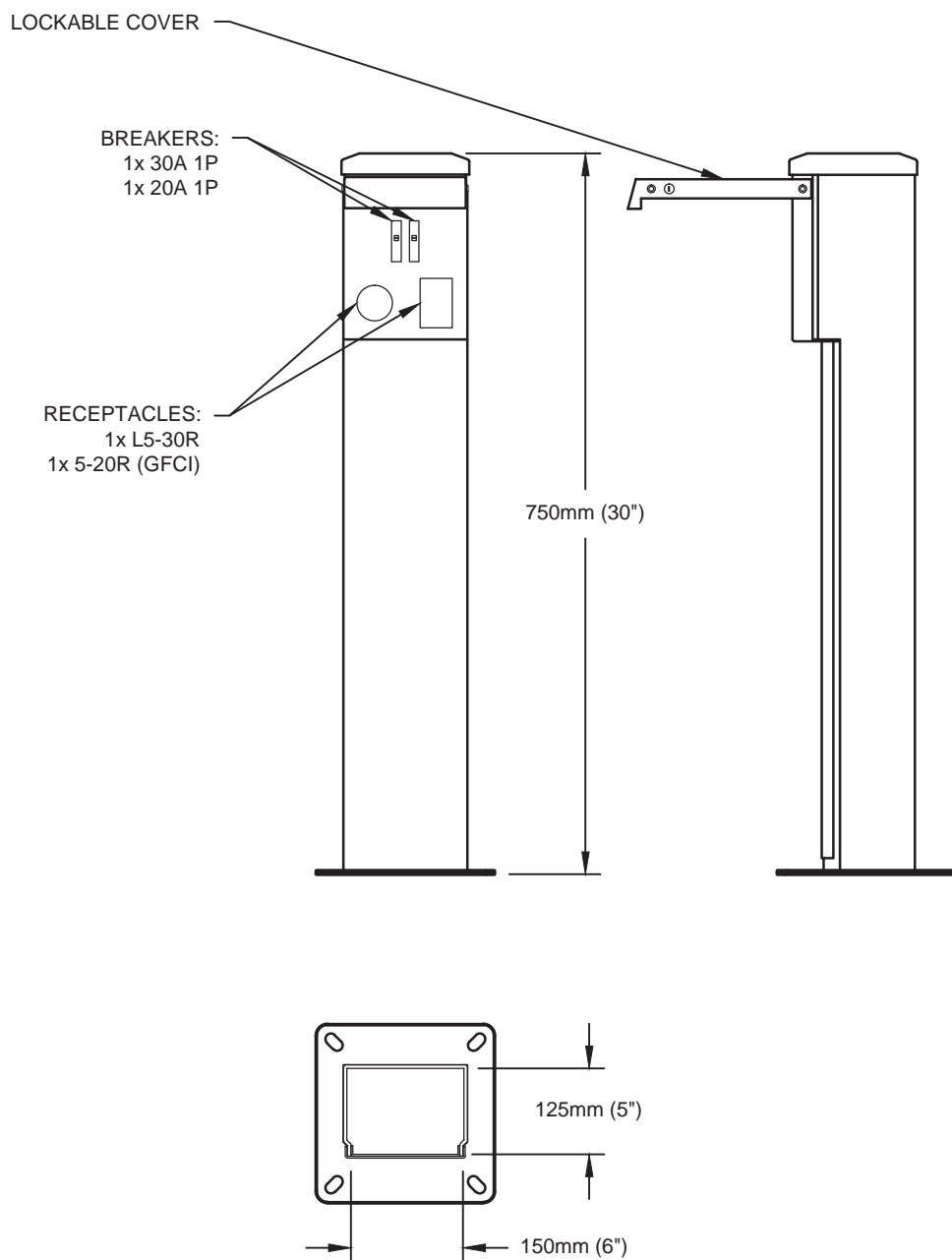


50A RV PEDESTAL DETAIL  
SCALE: NTS

- PEDESTAL NOTES:
1. PEDESTAL TO BE NEMA-3R RATED
  2. PEDESTAL CONSTRUCTION TO BE GALVANIZED STEEL WITH A BEIGE RAL 1001 POWDER COAT FINISH. CONFIRM FINAL COLOR WITH OWNER PRIOR TO ORDER.
  3. PEDESTAL TO INCLUDE BREAKERS AND RECEPTACLES AS INDICATED.
  4. LOCKABLE COVER IS TO BE ABLE TO BE LOCKED WHILE IN USE.
  5. PROVIDE ANCHOR BOLTS IN CONCRETE BASE FOR MOUNTING OF PEDESTAL.
  6. PEDESTAL LUGS TO BE SUITABLE FOR USE WITH UP TO 750MCM AL OR CU
  7. ACCEPTABLE MANUFACTURERS ARE VALID MANUFACTURING, AC DANDY, FOXFAB OR EQUIVALENT

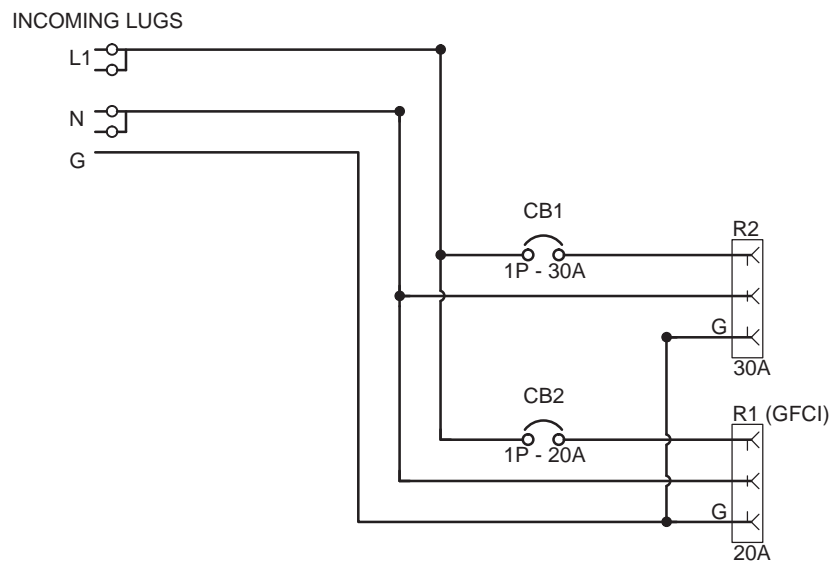


50A RV PEDESTAL WIRING DIAGRAM  
SCALE: NTS



30A RV PEDESTAL DETAIL  
SCALE: NTS

- PEDESTAL NOTES:
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30A RV PEDESTAL WIRING DIAGRAM  
SCALE: NTS

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03	JUL.01.16	REISSUED FOR 95% CLIENT REVIEW	DH	LL
02	APR.15.16	ISSUED FOR 95% CLIENT REVIEW	DH	LL
01	MAR.11.16	ISSUED FOR 50% CLIENT REVIEW	DH	LL

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client
<div><div></div><div><div>Parks Canada Agency Western and Northern Region</div><div>L'Agence Parcs Canada Ouest et Nord Région</div></div></div>

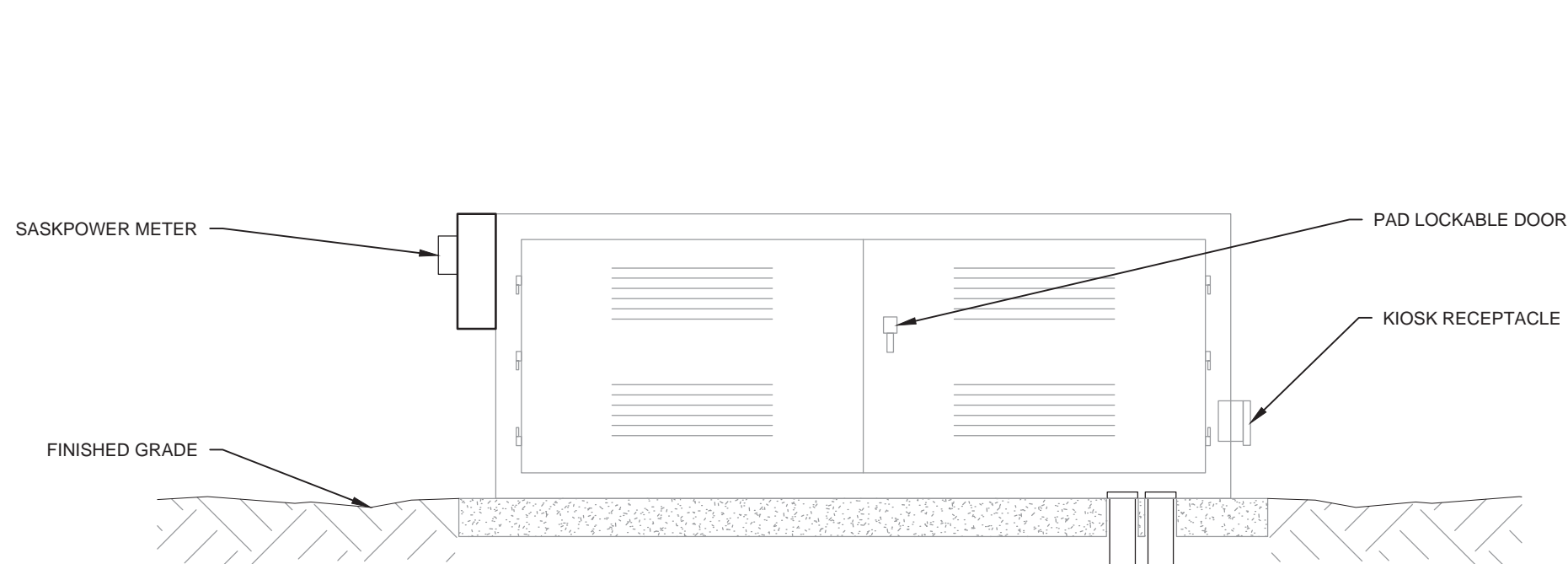
Consultant's Name Nom de l'expert-conseil
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Project title/Titre du projet
<div>ROCK CREEK CAMPGROUND AND DAY USE AREA PHASE 01 GRASSLANDS NATIONAL PARK, SK</div>

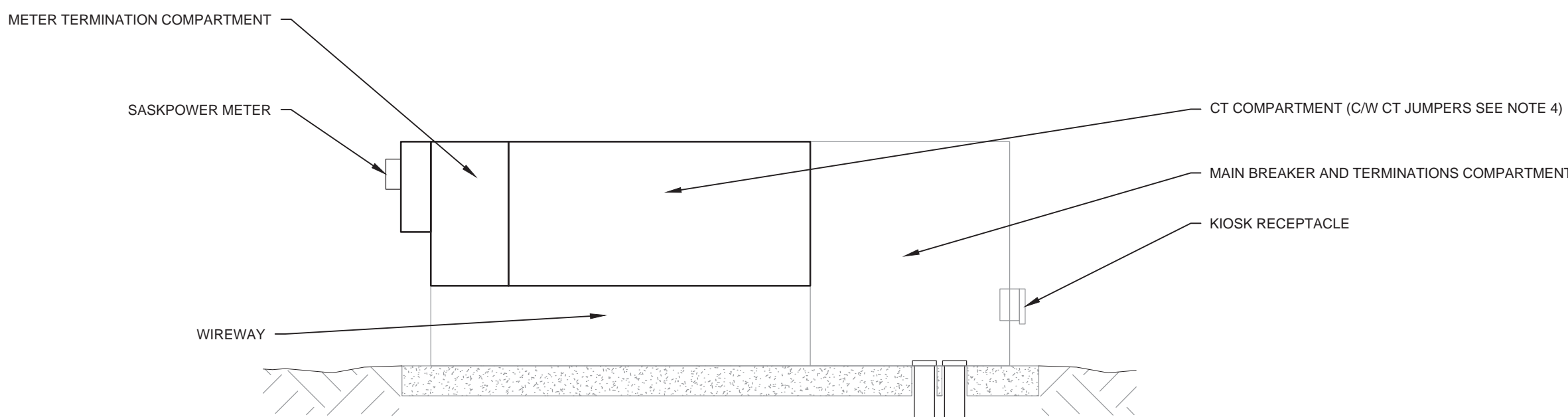
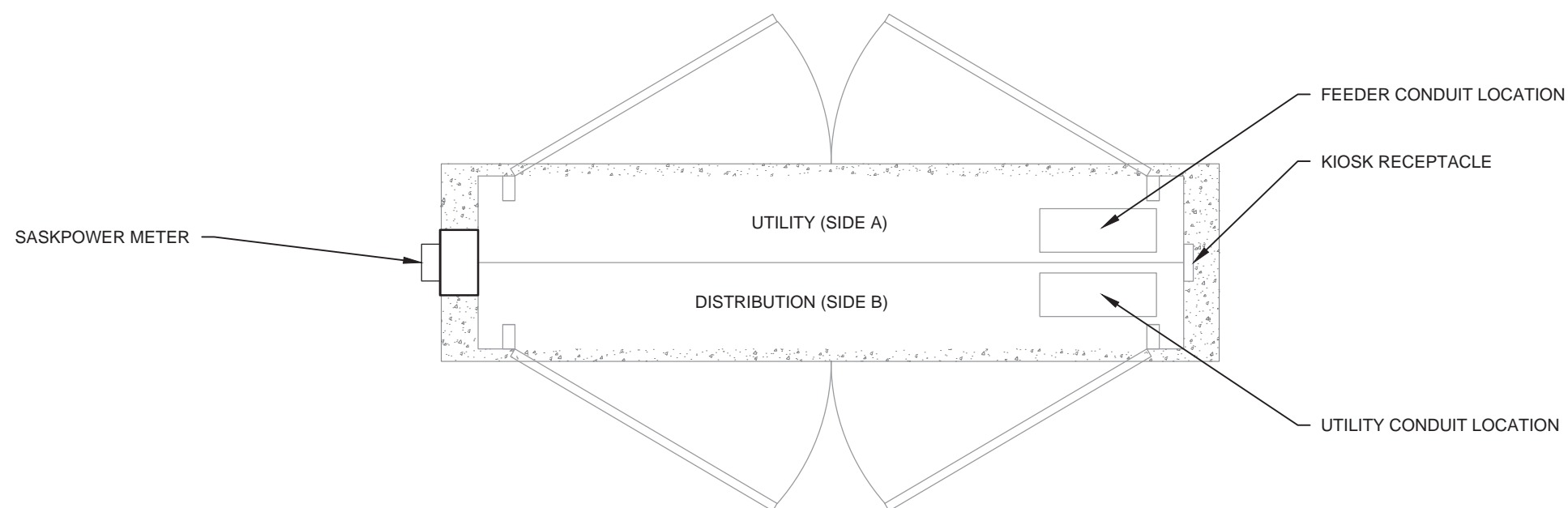
Drawing title/Titre du dessin
<div>ELECTRICAL 30A AND 50A RV PEDESTALS DETAILS AND WIRING DIAGRAMS</div>

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DH	Date/Date JUL.21.2016
Designed by/Concept par DH	Reviewed by/Revisé par LL	Scale/Echelle AS SHOWN
Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Parks Canada Responsible Officer/Agent Responsable Parks Canada Project No./No. du projet 2015xxx		Parks Canada Project Manager/Administrateur de Projets Parks Canada Asset No./No. du bien Sheet No./ No. de la feuille E5.0
Drawing Reference No./No. de référence du dessin 2711 16012 - 00		

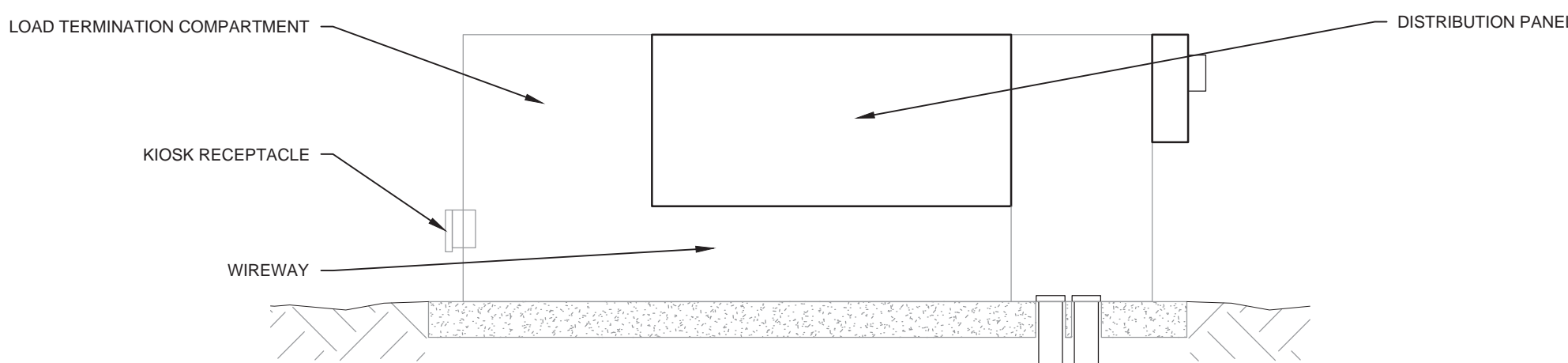




ELECTRICAL SERVICE KIOSKS TOP AND FRONT/REAR VIEW  
SCALE: NOT TO SCALE

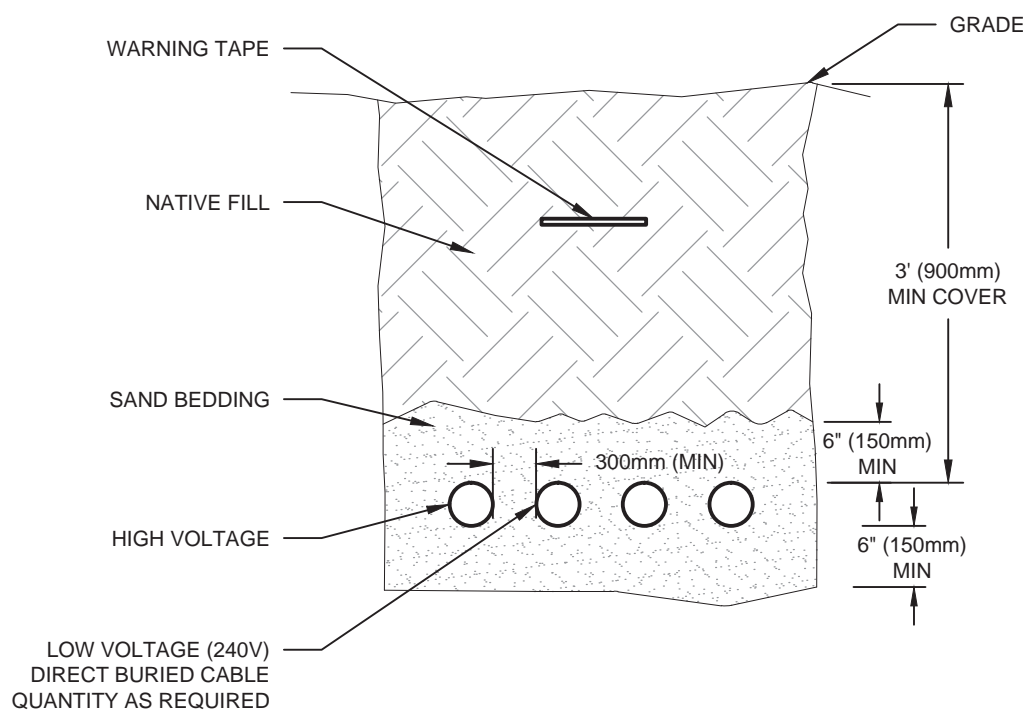


ELECTRICAL SERVICE KIOSK UTILITY SIDE A  
SCALE: NOT TO SCALE



ELECTRICAL SERVICE KIOSK DISTRIBUTION SIDE B  
SCALE: NOT TO SCALE

- ELECTRICAL KIOSK NOTES:
1. PANEL TO BE BONDED TO TRANSFORMER GROUND.
  2. MINIMUM DISTANCE BETWEEN SASKPOWER TRANSFORMERS CONCRETE PAD AND KIOSK TO BE 3 METERS.
  3. KIOSK RECEPTACLE TO BE 9/20R GFCI.
  4. KIOSK RECEPTACLE TO BE LOCATED IN A LOCKABLE COMPARTMENT.
  5. PANEL MAIN BREAKER TO BE PAD-LOCKABLE AS PER SASKPOWER REQUIREMENTS.
  6. SHOP DRAWINGS MUST BE PROVIDED FOR KIOSK PRIOR TO ORDERING EQUIPMENT.
  7. REFER TO SASKPOWER ' SECTION 2 - TECHNICAL REQUIREMENTS FOR SERVICE UP TO AND INCLUDING 5kV' FOR INSTALLATION DETAILS.
  8. ALL KIOSKS TO BE LOCKABLE WITH SAME KEY.
  9. PROVIDE CONCRETE BASE AS PER KIOSK MANUFACTURERS REQUIREMENTS.
  10. ALL CONDUIT TO BE BURIED AT A MINIMUM OF 600mm BELOW FINISHED GRADE.
  11. EXACT LAYOUT OF EQUIPMENT MAY BE ADJUSTED TO SUIT SITE CONDITIONS. KIOSK TO BE SIZED TO SUIT ALL EQUIPMENT SHOWN AND ANCILLARY EQUIPMENT REQUIRED.
  12. OPENING OF DOORS IS TO BE ABOVE FINISHED GRADE.
  13. KIOSK CONSTRUCTION TO BE GALVANIZED STEEL WITH A BEIGE RAL 1001 POWDER COAT FINISH. CONFIRM FINAL COLOR WITH OWNER PRIOR TO ORDER.
  14. ACCEPTABLE MANUFACTURERS ARE VALID MANUFACTURING PART# DDSC47-84-30-01 OR ENGINEER APPROVED EQUIVALENT.



TYPICAL TRENCH DETAIL  
SCALE: NTS

- NOTES:
1. MINIMUM SPACING BETWEEN LOW VOLTAGE CABLES TO BE ONE CABLE WIDTH
  2. MINIMUM SPACING BETWEEN LOW VOLTAGE AND HIGH VOLTAGE CABLES TO BE 300mm.
  3. CONTRACTOR TO INFORM ENGINEER OF ANY CLOSE PROXIMITY UTILITIES DURING TRENCH EXCAVATION.
  4. MAINTAIN SAND BEDDING OF 150mm (6") IN ALL DIRECTIONS FROM ALL BURIED ELECTRICAL.
  5. MAINTAIN 300mm HORIZONTAL SEPARATION FROM ALL OTHER UTILITIES.


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Drawing title/Titre du dessin
ELECTRICAL KIOSK AND TRENCH DETAILS

Surveyed by/Arpenté par N/A	Drawn by/Dessiné par DH	Date/Date JUL.21.2016
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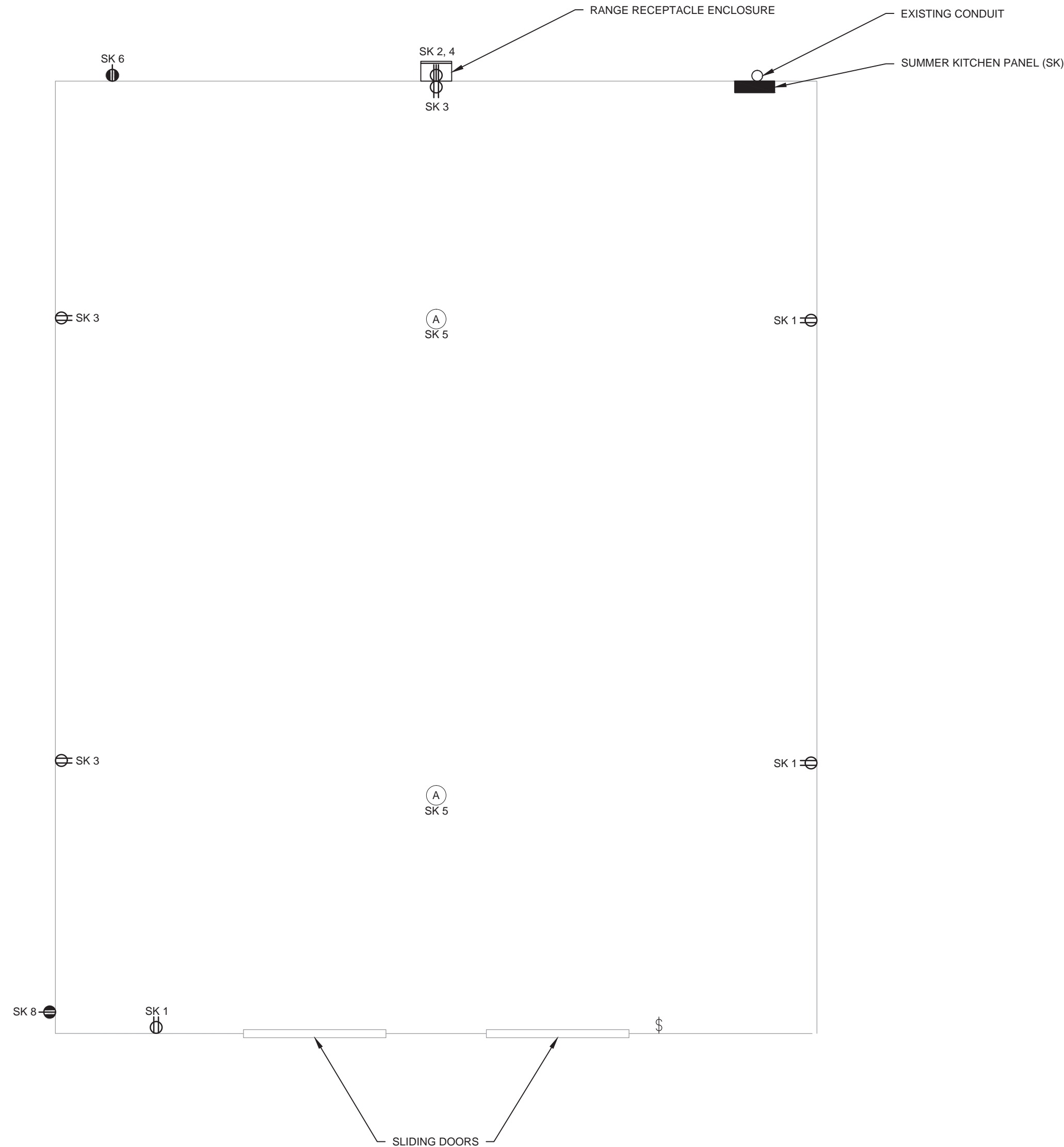
Parks Canada Project Manager/Administrateur de Projets Parcs Canada COLIN SCHMIDT
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- ELECTRICAL SUMMER KITCHEN NOTES:
1. ALL INSTALLATIONS TO BE COMPLETED AS PER THE CANADIAN ELECTRICAL CODE 2015.
  2. USE EXISTING CONDUIT AS ENTRY LOCATION FOR SUMMER KITCHEN PANEL FEED. PROVIDE PROPER SEALANT FOR OUTDOOR APPLICATION.
  3. OUTDOOR RANGE RECEPTACLE TO BE INSTALLED INSIDE A NEMA 3R WEATHERPROOF ENCLOSURE. COLOR OF ENCLOSURE TO BE BEIGE RAL 1001.
  4. USB RECEPTACLES TO BE FED BY A GFCI BREAKER.
  5. ALL WIRING TO BE IN SURFACE MOUNTED METAL CONDUIT ON WALLS.
  6. SWITCH OCCUPANCY SENSOR TO BE AUTO ON, WITH 30 MINUTE DELAY AUTO OFF.

SYMBOL SCHEDULE		
SYMBOL	DESCRIPTION	NOTES
	5-20R, 125V DUPLEX RECEPTACLE WITH 2 X 5V DC USB PORTS	INSTALLED AT COUNTER TOP HEIGHT
	15/20 AMP, 125V DUPLEX GROUND FAULT RECEPTACLE (GFCI)	INSTALLED AT COUNTER TOP HEIGHT
	50 AMP, 250V RANGE RECEPTACLE	INSTALLED AT COUNTER TOP HEIGHT
	PANELBOARD - REFER TO PANEL SHT E4.0 SCHEDULES FOR DETAILS	
	LIGHT SWITCH COMES WITH INTEGRAL OCCUPANCY SENSOR	AUTO 'ON 30 MIN DELAY 'OFF'
	RAB DESIGN - CLB-LED-14W, 14W, 120V, 3000K, CEILING MOUNT	

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 <b>McElhanney</b>				
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