

GENERAL ANNOTATION		
ITEM	SYMBOL	REMARKS
ELEVATION CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
DETAIL CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
DETAIL CALLOUT, SECTION		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
WALL SECTION CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
BUILDING SECTION CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
ROOM NUMBER CALLOUT		
DOOR NUMBER CALLOUT		
WINDOW NUMBER CALLOUT		
REVISION NUMBER CALLOUT		

ABBREVIATIONS LEGEND			
ARCH	ARCHITECTURAL	ID	INSIDE DIAMETER
B.U.	BUILT-UP	INT	INTERIOR
B.L.L.	BOTTOM LOWER LAYER	LG	LONG
B.U.L.	BOTTOM UPPER LAYER	LOC	LOCATION
BD	BOARD	MACH	MACHINE ROOM
BLDG	BUILDING	MAX	MAXIMUM
BLKG	BLOCKING	MFR	MANUFACTURER
BOT	BOTTOM	MID	MIDDLE
B/W	BOTH WAYS	min.	MINUTES (TIME)
BRG	BEARING	MIN	MINIMUM
C.L.	CENTERLINE	NIC	NOT IN CONTRACT
C/W	COMPLETE WITH	NO.	NUMBER
CANT	CANTILEVER	O/C	ON CENTRE
C.J.	CONTROL JOINT	OD	OUTSIDE DIAMETER
COL	COLUMN	PRE-ENG	PRE-ENGINEERED
COMP	COMPACTED	PREFIN	PREFINISHED
CONC	CONCRETE	PROJ	PROJECTION
CONST	CONSTRUCTION	PTD	PAINTED
CONT	CONTINUOUS	P.L.	PROPERTY LINE
CORR	CORRIDOR	RF	REFERENCE POINT
CWN	COMMON WIRE NAIL	R/W	REINFORCED WITH
DIA	DIAMETER	RWL	RAIN WATER LEADER
DIAG	DIAGONAL	REINF	REINFORCING
DS	DOWNSPOUT	REQD	REQUIRED
DTL	DETAIL	SCH	SCHEDULE
DP	DEEP	SECT	SECTION
DWG	DRAWING	SHTG	SHEATHING
E/F	EACH FACE	SIM	SIMILAR
E/S	EACH SIDE	SQFT	SQUARE FOOT
E/W	EACH WAY	SQM	SQUARE METER
EL	ELEVATION	STD	STANDARD
ELEV	ELEVATION	STOR	STORAGE
EQ	EQUIVALENT	STRL	STRUCTURAL
EXT	EXTERIOR	T.L.L.	TOP LOWER LEVEL
F/H	FULL HEIGHT	T.U.L.	TOP UPPER LEVEL
F/O	FACE OF	T&G	TONGUE & GROOVE
FD	FLOOR DRAIN	T&B	TOP & BOTTOM
FND	FOUNDATION	THKG	THICKENING
FLR	FLOOR	THRU	THROUGH
FTG	FOOTING	TJ	TIE JOIST
GALV	GALVANIZED	T/O	TOP OF
G.L.	GRID LINE	TYP	TYPICAL
H/C	HANDICAPPED	U/S	UNDERSIDE
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
hr.	HOUR (TIME)	VERT	VERTICAL
HT	HEIGHT	W	WITH
INSUL	INSULATION	WP	WEATHERPROOF
		W/R	WASHROOM



BEEF FEEDLOT WATER
RENOVATION & EXPANSION
LACOMBE, AB.

DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
Arch-Bldg	
C101	SITE LAYOUT
C102	PENS (ENLARGED DETAILS)
C201	PROPOSED GRADING PLAN
C202	GRADING PLAN ENLARGED
C203	GRADING PROFILES
C301	EXISTING TOPOGRAPHY & DEMOLITION PLAN
Structural	
S101	STRUCTURAL DETAILS - FOUNDATION
S102	STRUCTURAL DETAILS
S201	PUMP HOUSE - FLOOR PLANS & ELEVATIONS
S202	STRUCTURAL DETAILS - PUMP HOUSE
Mechanical	
M101	MECHANICAL SITE LAYOUT
Electrical	
E101	
E201	DISTRIBUTION DIAGRAM & PANELS

ISSUED FOR TENDER



Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	99% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

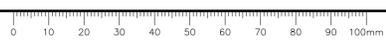
Client: _____ client
PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title: _____ Projet
BEEF FEEDLOT WATER RENOVATION & EXPANSION LACOMBE, AB

Designed by: _____ Conçu par
Drawn by: _____ Dessiné par
Approved by: _____ Approuvé par

PWSSC Project Manager / Administrateur de Projets TPSGC

DRAWING LIST		
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	INDEX	0



ISSUED FOR TENDER



Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	90% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	
Client		client

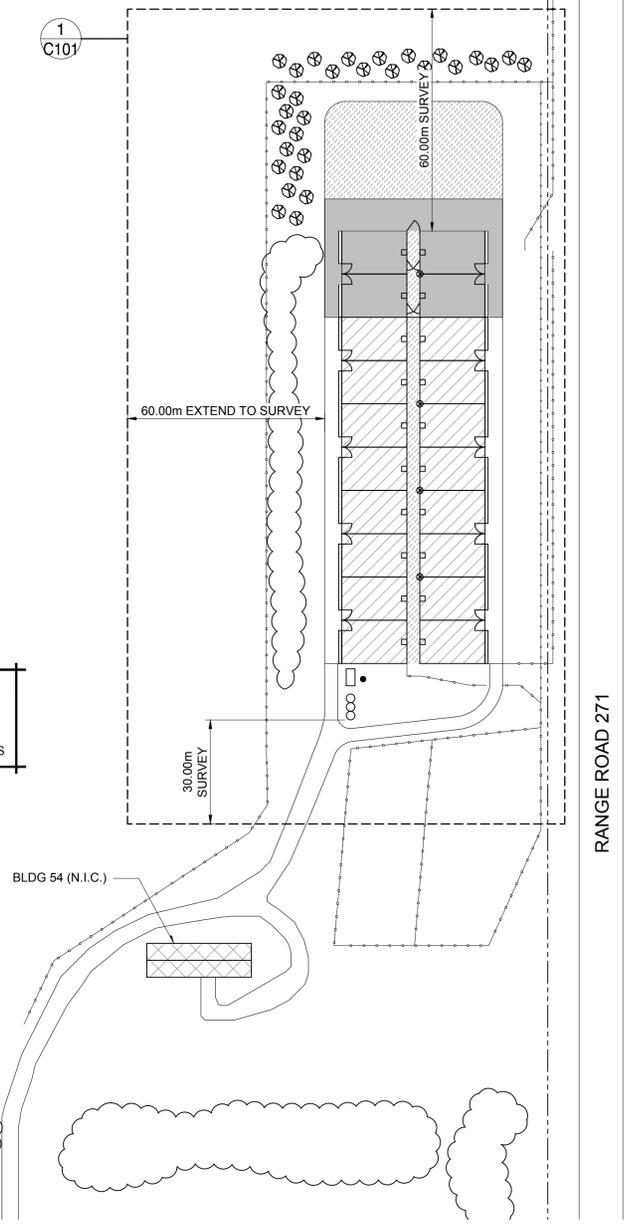
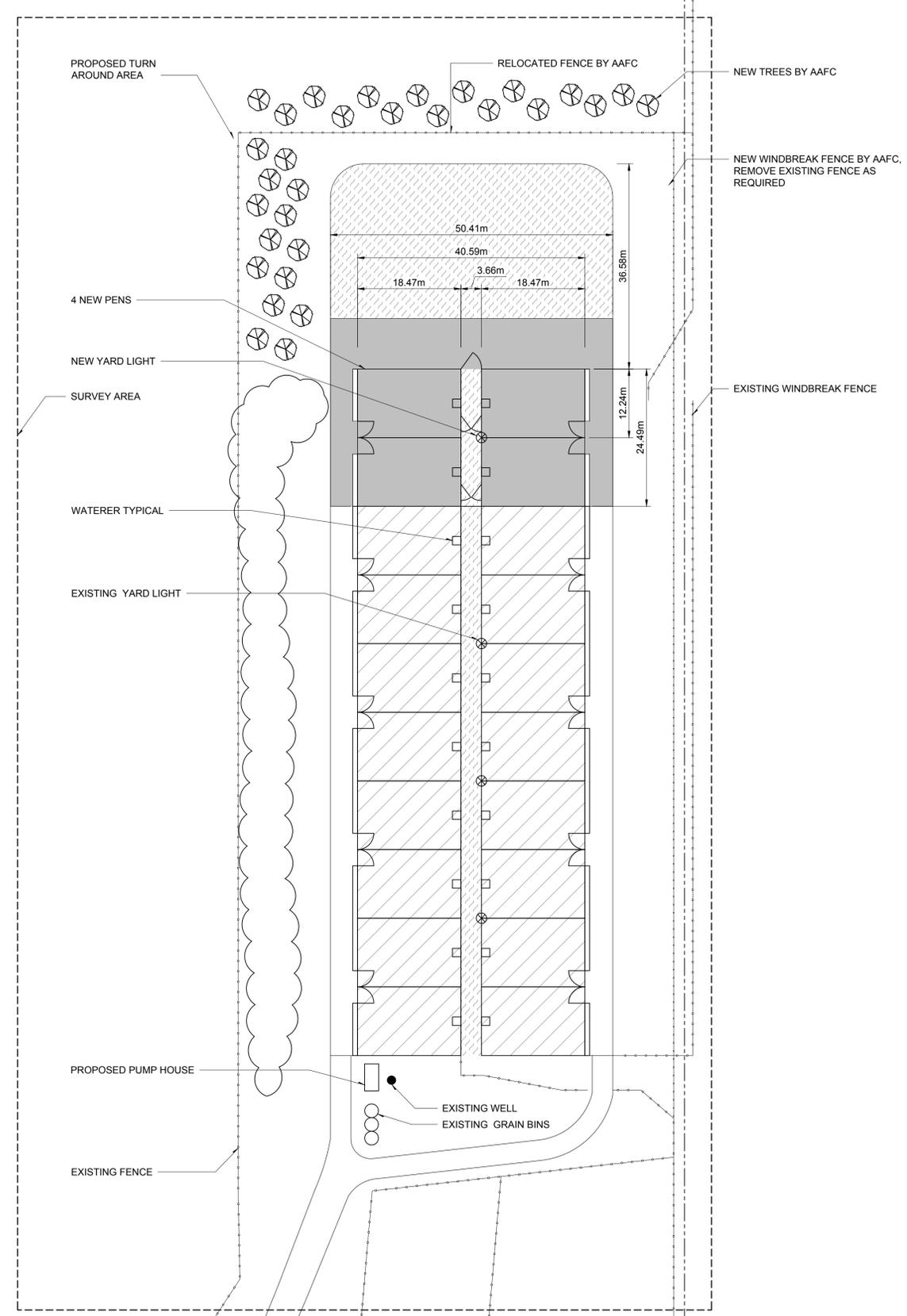
PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title: **BEEF FEEDLOT WATER RENOVATION & EXPANSION**
LACOMBE, AB

Designed by: **JJM** / Conçu par
Drawn by: **JF** / Dessiné par
Approved by: **DGH** / Approuvé par
PWGSC Project Manager / Administrateur de Projets TPSGC

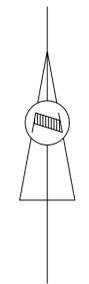
Drawing title: **SITE LAYOUT**
Titre du dessin

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	C101	0

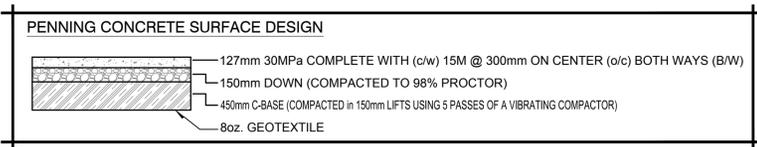
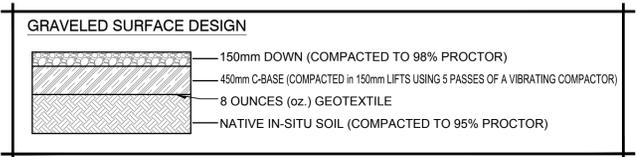


NOTE REGARDING SURVEY:
1. SURVEY EXISTING LOT AS SHOWN
2. INCLUDE CORNER POINTS OF PENNING
3. INCLUDE DRIVE WAY & WALKWAY BETWEEN PENS

SITE LAYOUT
SCALE: 1:1000

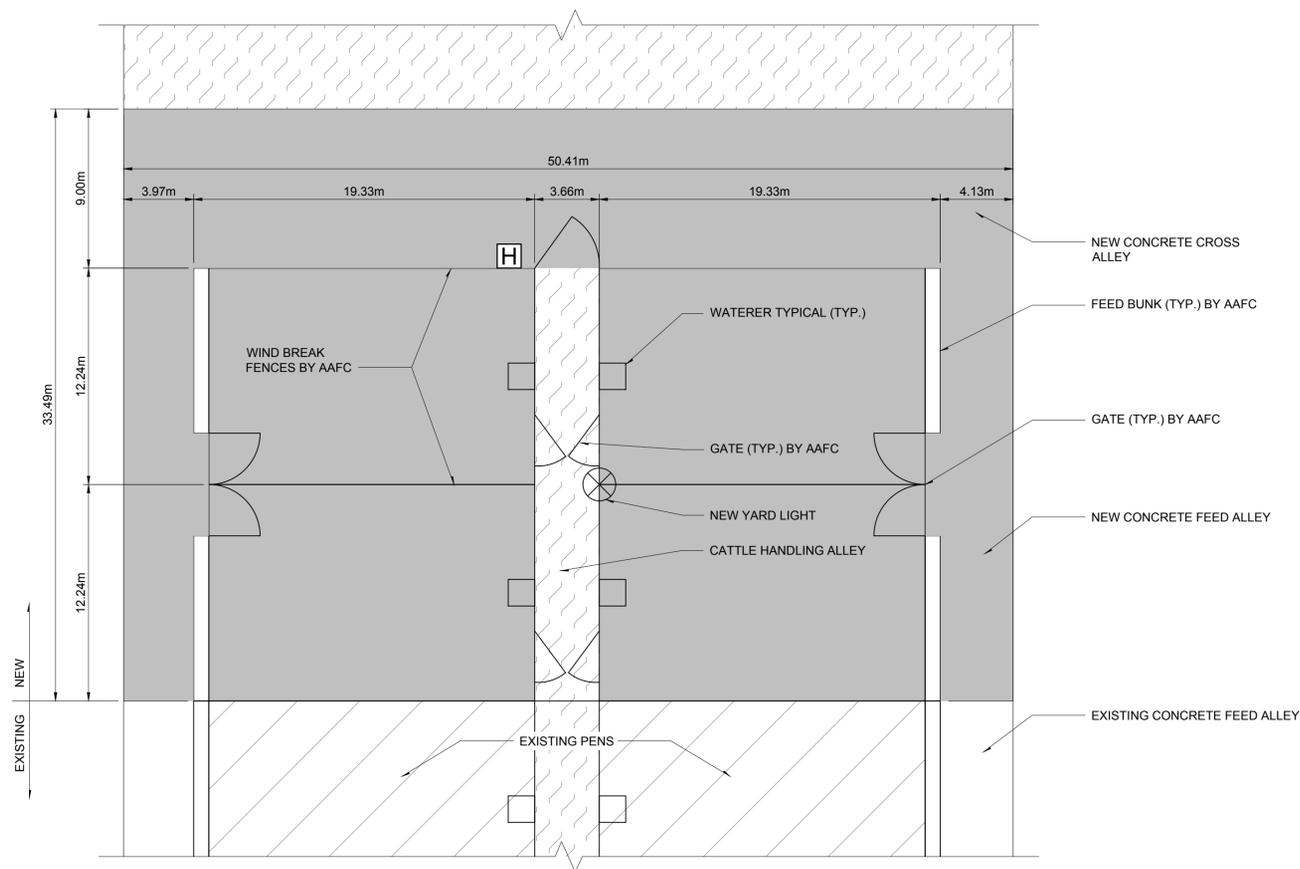


ITEM	SYMBOL
PROPERTY LINE	- - - - -
EXISTING FENCE LINE	□
NEW WINDBREAK FENCE LINE	○
EXISTING PENS TO REMAIN	▨
NEW CONCRETE PENS AND ALLEYS	■
NEW GRAVEL STORAGE AREA AND CATTLE ALLEY	▩



ISSUED FOR TENDER

ITEM	SYMBOL	REMARKS
EXISTING PENS TO REMAIN		
NEW CONCRETE PENS AND ALLEYS		
NEW GRAVEL STORAGE AREA AND CATTLE ALLEY		
FROST FREE HYDRANT		



1 ENLARGED DETAIL - 4 NEW PENS AND DRIVEWAY
C102 1:200



Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	90% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

Client: client

PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title: Projet

BEEF FEEDLOT WATER RENOVATION & EXPANSION
LACOMBE, AB

Designed by: Conçu par

JJM

Drawn by: Dessiné par

JF

Approved by: Approuvé par

DGH

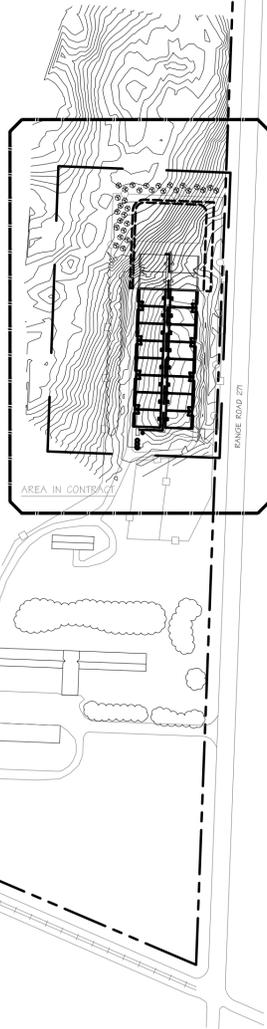
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title: Titre du dessin

PENS (ENLARGED DETAIL)

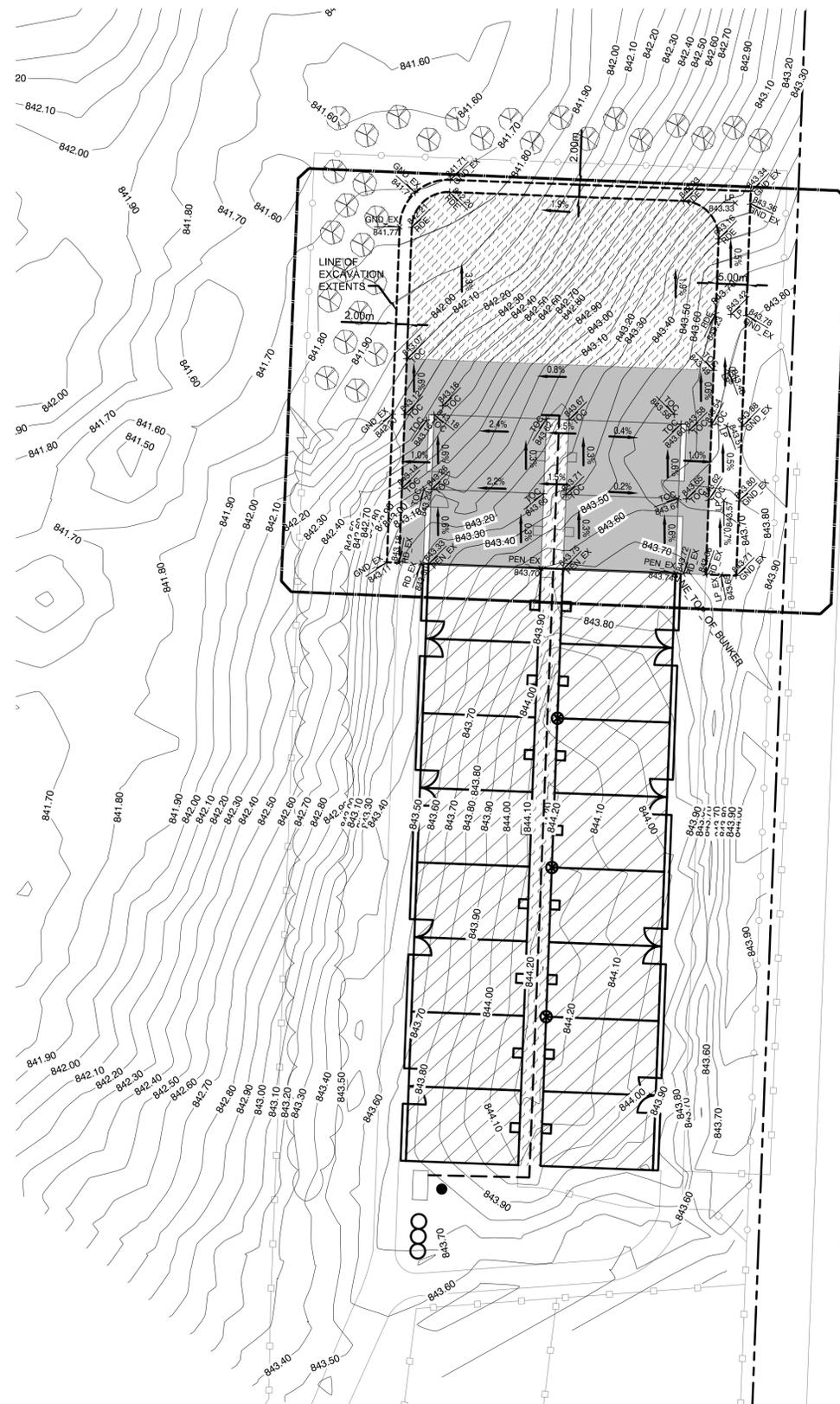
Project no./No. du projet: Drawing no./No. du dessin: Revision no.

R. 082927.001 **C102** **0**



KEY PLAN

1:2500



DETAILED PLAN

1:500

1
C202

SITE DEVELOPMENT - GRADING		
ITEM	SYMBOL	REMARKS
GRADE ELEVATION (m) & DESCRIPTION		GND_EX - EXISTING GRADE LP_EX - EXISTING GRADE LOW POINT PEN_EX - EXISTING PEN ELEVATION RD_EX - EXISTING ROAD ELEVATION RDE - PROPOSED ROAD EDGE LP - PROPOSED GRADE LOW POINT TOC - TOP OF CONCRETE
EXISTING CONTOUR ELEVATION		
PROPOSED DRAINAGE PATTERN		

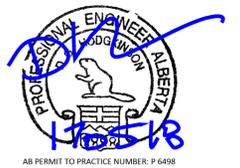
DRAWING NOTES:

- BENCHMARK REFERENCE:

IDENTIFICATION	ELEVATION	DESCRIPTION
NE_TOP_OF_BUNKER	844.450 m	NE CORNER TOP OF FEED BUNKER
- PROPOSED EXCAVATION OF TOPSOIL STRIP FOR THE MATERIAL TAKE-OFF HAS BEEN CALCULATED AS 200mm THK.
- ALL MATERIAL VOLUMES NOTED IN THE REPORT ARE BASED ON THE FOLLOWING MATERIAL SPECIFICATION IN THE NOTED AREAS:
 - PENNING
 - 127mm THK. CONCRETE
 - 150mm THK. A-BASE
 - 450mm THK. C-BASE
 - COMMON FILL TO TOPSOIL EXCAVATION
 - CENTER ALLEY
 - 150mm THK. A-BASE
 - 450mm THK. C-BASE
 - COMMON FILL TO EXCAVATION
 - GRANULAR TURNAROUND
 - 150mm THK. A-BASE
 - 450mm THK. C-BASE
 - COMMON FILL TO EXCAVATION
 - CONCRETE AROUND PENNING
 - 127mm THK. CONCRETE
 - 150mm THK. A-BASE
 - 450mm THK. C-BASE
 - COMMON FILL TO EXCAVATION
 - EXTERIOR FILL (FILL FROM ROADWAY TO EXCAVATION EXTENTS)
 - 150mm THK. TOPSOIL
 - COMMON FILL TO EXCAVATION

LEGEND		
ITEM	SYMBOL	REMARKS
PROPERTY LINE		
EXISTING FENCE LINE		
NEW WINDBREAK FENCE LINE		
EXISTING PENS TO REMAIN		
NEW CONCRETE PENS AND ALLEYS		
NEW GRAVEL STORAGE AREA AND CATTLE ALLEY		
MECHANICAL SERVICING TRENCH		SEE EXCAVATION DETAILS ON SHEET M101 & E101

ISSUED FOR TENDER



5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	80% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	
Revision	Description	Date
Client		client

PUBLIC WORKS & GOVERNMENT SERVICES

ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title: **BEEF FEEDLOT WATER RENOVATION & EXPANSION**

LACOMBE, AB

Designed by: **JJM** / Conçu par

Drawn by: **JJM** / Dessiné par

Approved by: **DGH** / Approuvé par

PWGSC Project Manager / Administrateur de Projets TPSGC

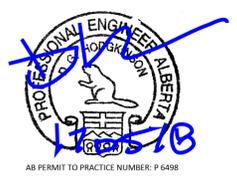
Drawing title: **PROPOSED GRADING PLAN**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	C201	0

ISSUED FOR TENDER



1 ENLARGED DETAIL
C202 1:200 SHEET REF.: C201



5		
4		
3		
2	10% CONSTRUCTION DOCUMENTS	2017/05/18
1	8% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	
Revision	Description	Date
Client		client

PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title / Projet
BEEF FEEDLOT WATER RENOVATION & EXPANSION
LACOMBE, AB

Designed by / Conçu par
JJM
Drawn by / Dessiné par
JJM
Approved by / Approuvé par
DGH
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title / Titre du dessin
PROPOSED GRADING PLAN

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	C202	0



ISSUED FOR TENDER



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3		
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PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

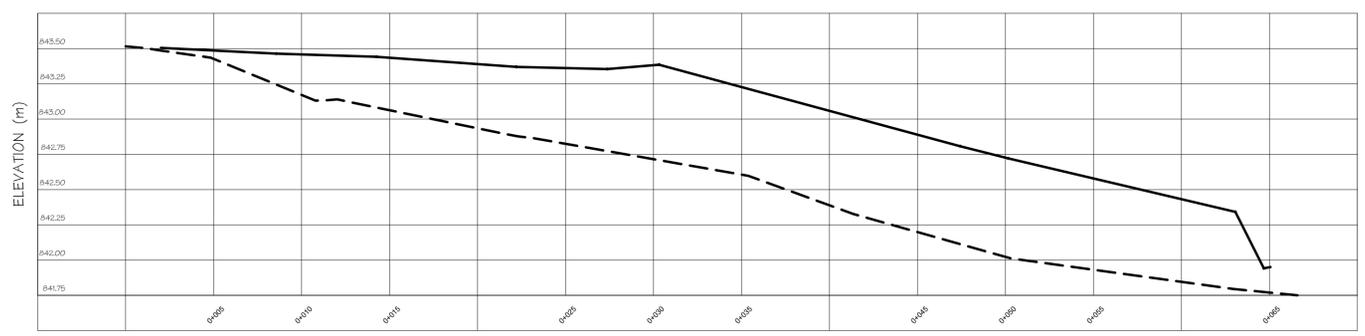
Project title
BEEF FEEDLOT WATER RENOVATION & EXPANSION
LACOMBE, AB

Designed by **JJM** / Conçu par
Drawn by **JJM** / Dessiné par
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PWGSC Project Manager / Administrateur de Projets TPSGC

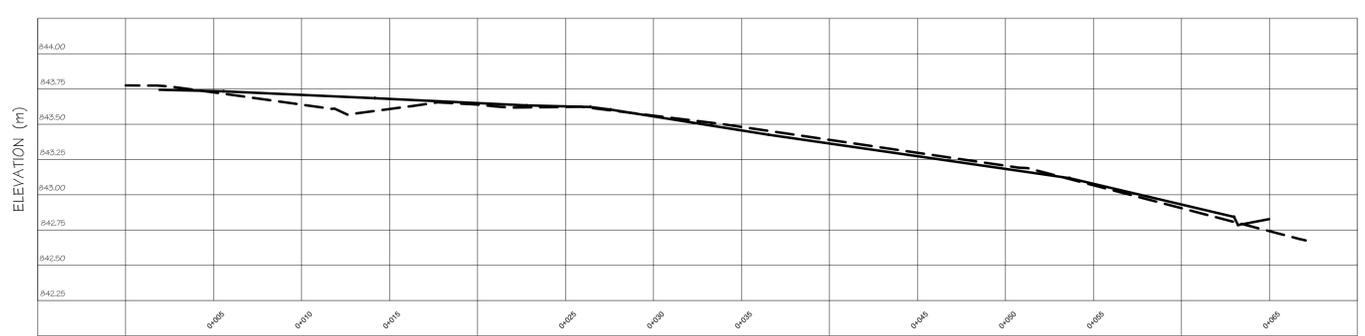
Drawing title
GRADING PROFILES

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	C203	0

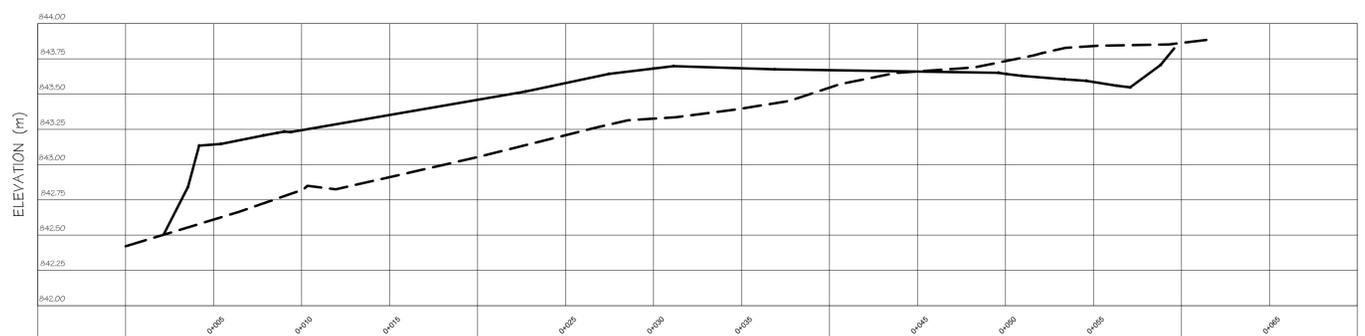
GRADING PROFILE A-A



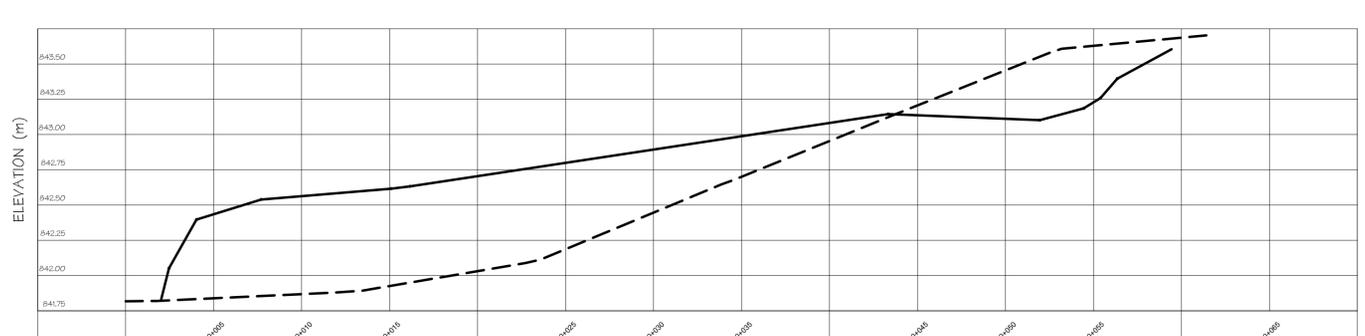
GRADING PROFILE B-B



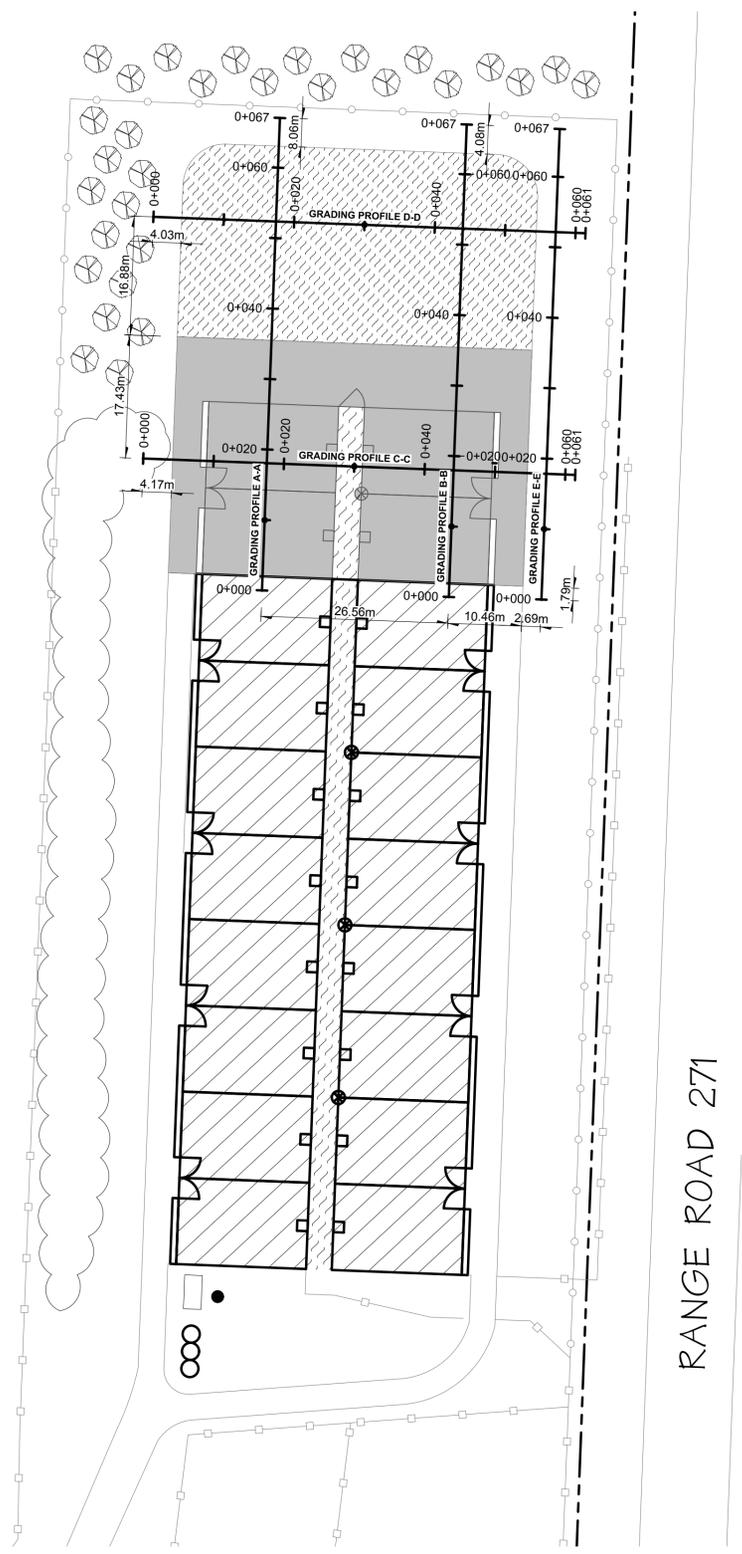
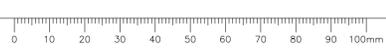
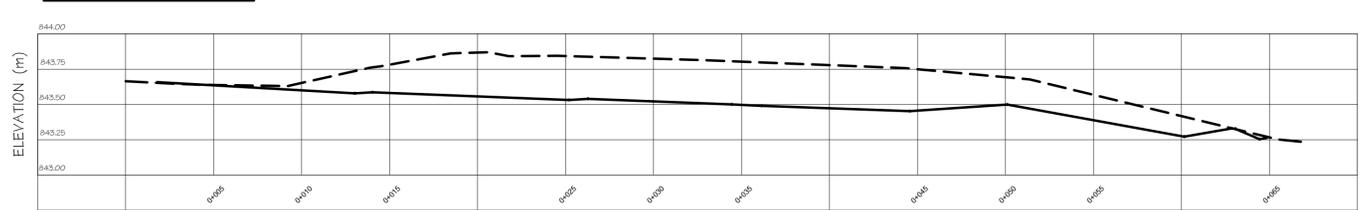
GRADING PROFILE C-C



GRADING PROFILE D-D



GRADING PROFILE E-E



RANGE ROAD 271

DETAILED PLAN

1:500

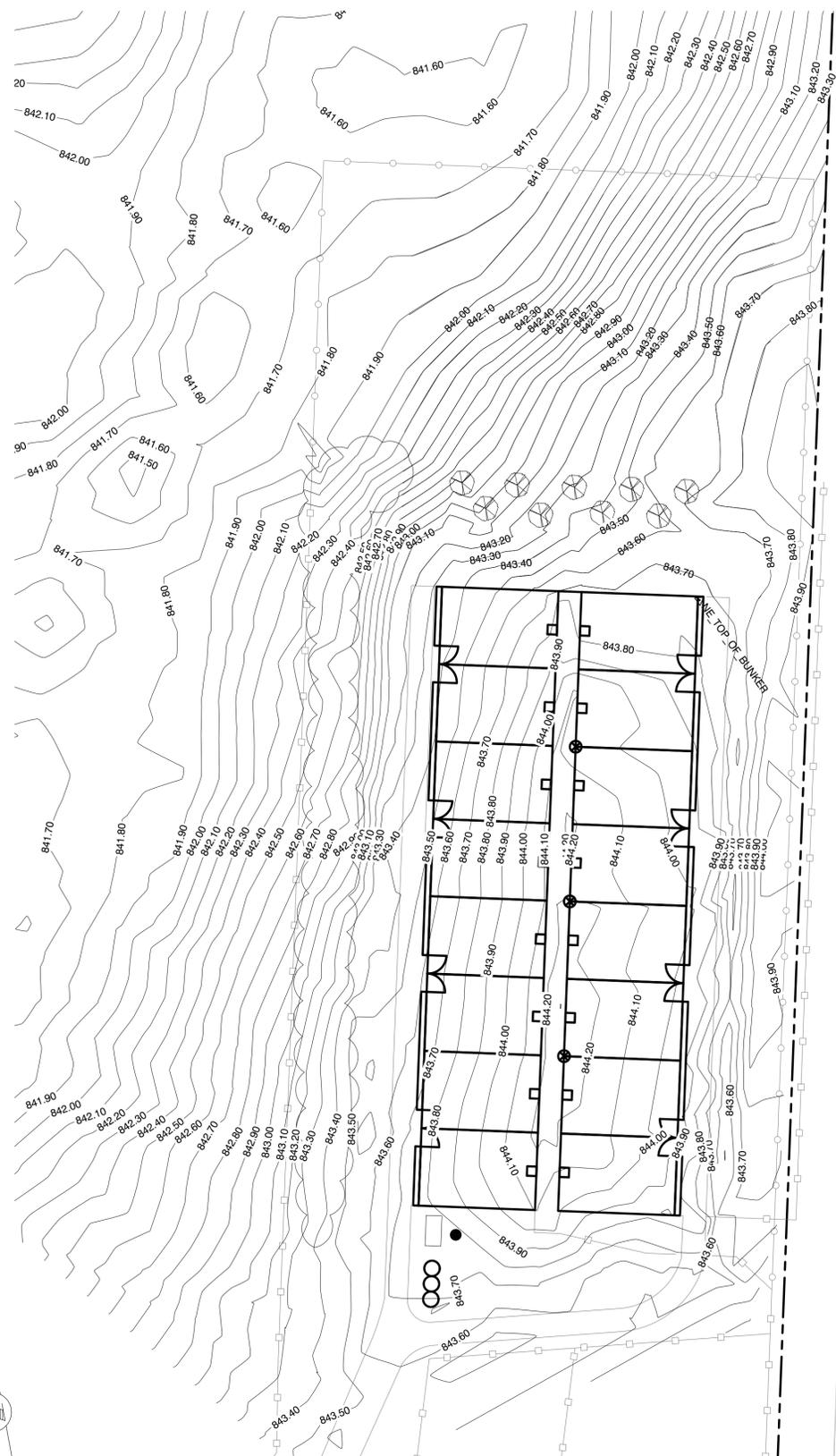
ITEM	SYMBOL	REMARKS
PROPERTY LINE	---	
EXISTING FENCE LINE	—●—	
NEW WINDBREAK FENCE LINE	—●—	
EXISTING PENS TO REMAIN	[Hatched]	
NEW CONCRETE PENS AND ALLEYS	[Solid Grey]	
NEW GRAVEL STORAGE AREA AND CATTLE ALLEY	[Diagonal Hatched]	
MECHANICAL SERVICING TRENCH	- - - -	SEE EXCAVATION DETAILS ON SHEET M101 & E101

ITEM	SYMBOL
EXISTING GRADE PROFILE	- - - -
PROPOSED GRADE PROFILE	————

ISSUED FOR TENDER

SITE DEVELOPMENT - GRADING	
ITEM	SYMBOL
EXISTING CONTOUR ELEVATION	xxxxxx

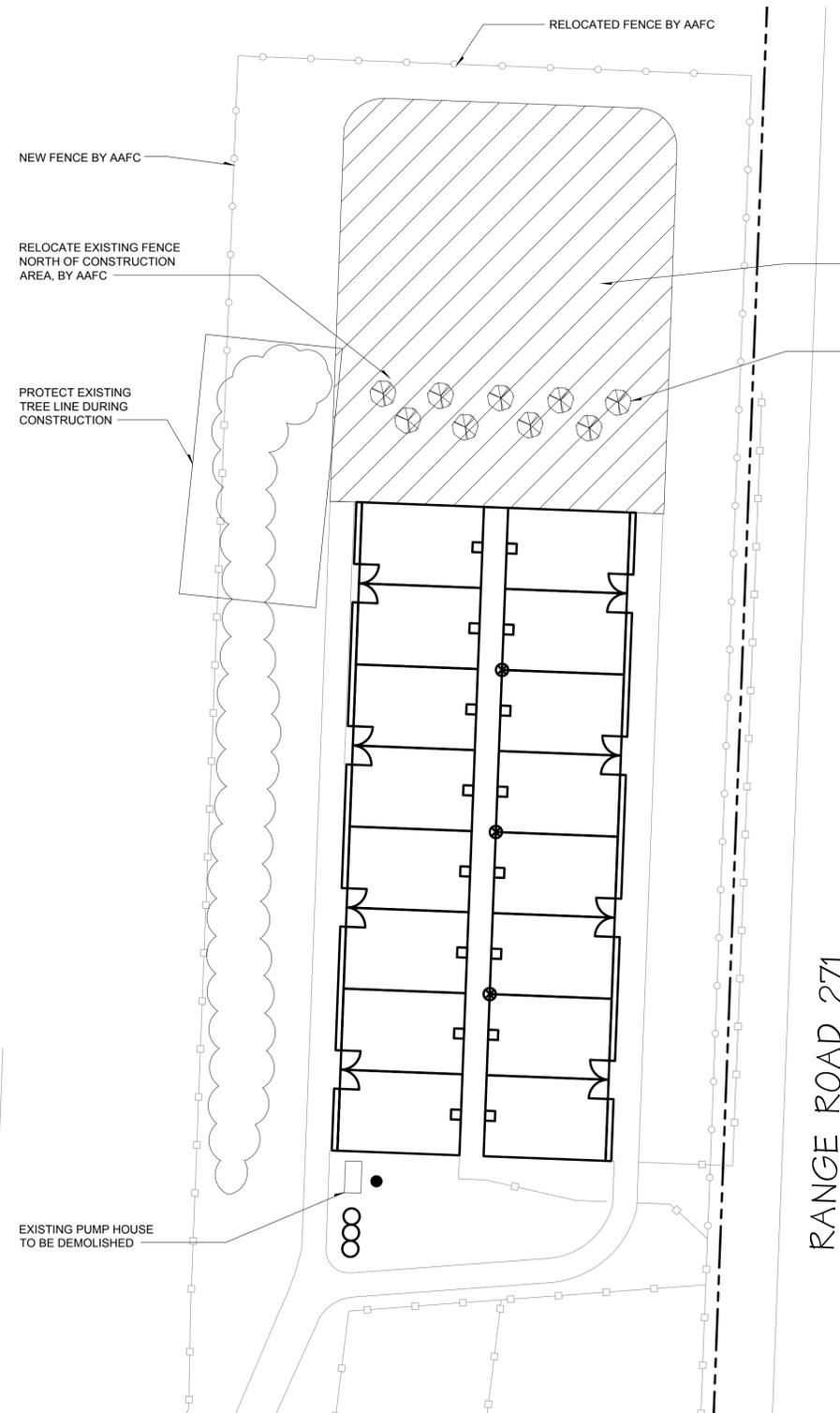
LEGEND	
ITEM	SYMBOL
PROPERTY LINE	---
EXISTING FENCE LINE	□
NEW FENCE LINE	○



EXISTING TOPOGRAPHY

1:500

RANGE ROAD 271



DEMOLITION PLAN

1:500

RANGE ROAD 271

5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/10
1	80% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	
Revision	Description	Date
Client		client

PUBLIC WORKS & GOVERNMENT SERVICES

ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title

**BEEF FEEDLOT WATER RENOVATION & EXPANSION
LACOMBE, AB**

Designed by

JJM Conçu par

Drawn by

JJM Dessiné par

Approved by

DGH Approuvé par

PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title / Titre du dessin

EXISTING TOPOGRAPHY & DEMOLITION PLAN

Project no./No. du projet

R. 082927.001

Drawing no./No. du dessin

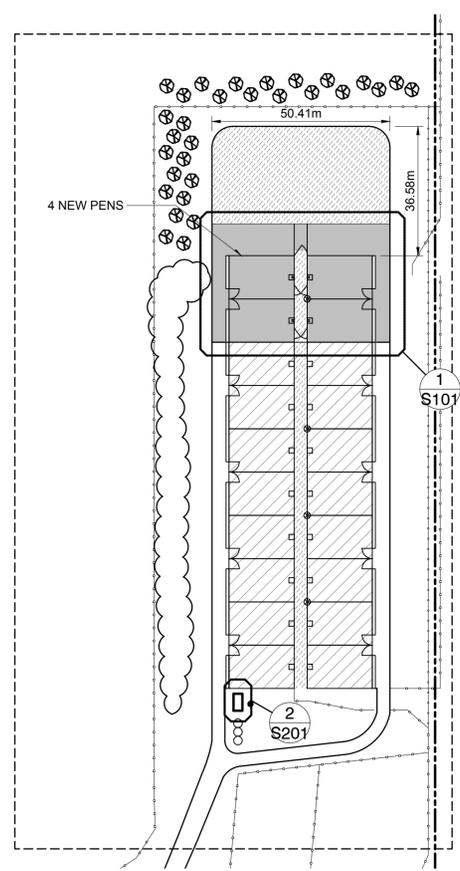
C301

Revision no.

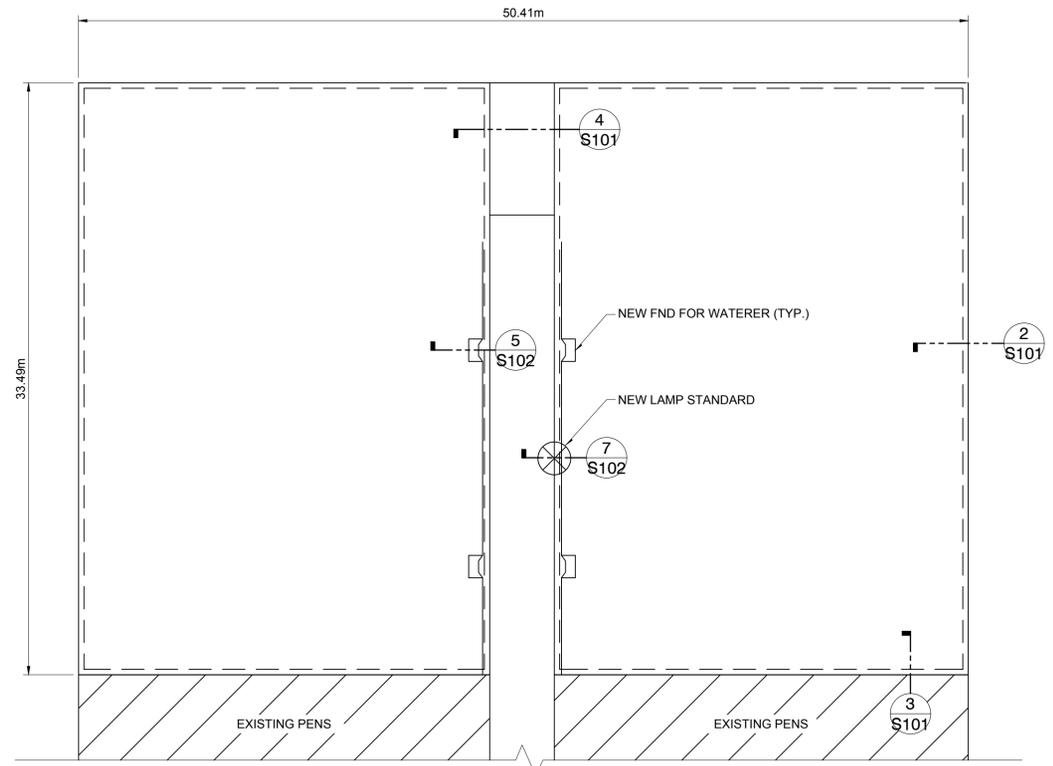
0

ISSUED FOR TENDER

1. Building Design Loads (Pump house)
 - 1.1. Building loads referenced from ABC latest edition, Lacombe, AB
 - 1.1.1. Ground snow load 1.9 kPa
 - 1.1.2. Rain load 0.1 kPa
 - 1.1.3. Roof Snow load 1.3 kPa
 - 1.1.4. Roof Dead load 0.38 kPa
 - 1.1.5. Wind load q50 0.4 kPa
 - 1.1.6. Importance Factor 0.8
2. General Construction Notes
 - 2.1. Building use: Service enclosure (Pump house)
 - 2.2. Building and foundation loads in accordance with the ABC latest edition.
 - 2.3. The contractor is required to review the complete set of contract documents and co-ordinate all trades. The work must be a complete, functioning facility, as explicitly & implicitly described by the contract documents.
 - 2.4. The contractor is to verify all dimensions prior to commencing with the work. Contractor is to notify engineer of any discrepancy or deviation in the existing condition prior to commencing with the work for further instructions.
 - 2.5. Drawings are not to be scaled, but must be used to determine the general layout. All dimension discrepancies are to be reported to the engineer.
 - 2.6. Verify finished slab elevation relative to site with engineer prior to commencement of work.
 - 2.7. All new grade work is to be sloped away from building.
 - 2.8. Strip topsoil; ensure that all organic material is removed.
 - 2.9. All fill material shall be placed in horizontal layers not exceeding 150mm and shall be compacted to a minimum of 98% standard proctor density.



ENLARGED SITE LAYOUT
SCALE: 1:1000



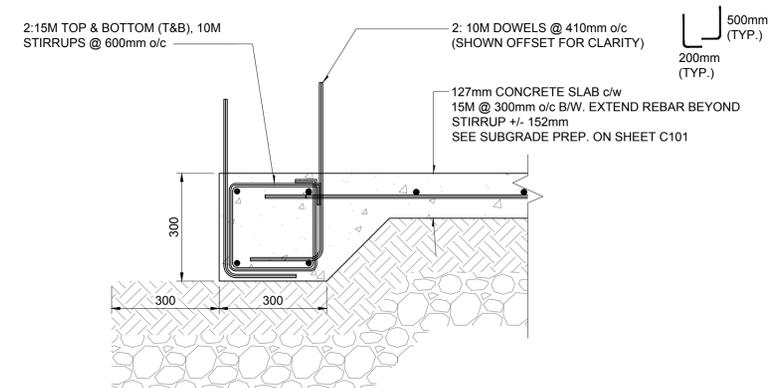
FOUNDATION PLAN - 4 NEW PENS AND DRIVEWAY (ENLARGED DETAIL)

1
S101
1:200
SHEET REF.: S101



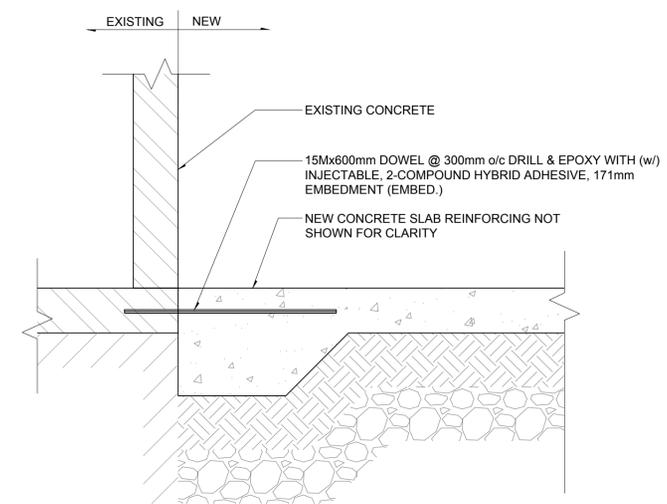
LEGEND	SYMBOL
PROPERTY LINE	---
EXISTING FENCE LINE	□
NEW WINDBREAK FENCE LINE	○
EXISTING PENS TO REMAIN	▨
NEW CONCRETE PENS AND ALLEYS	■
NEW WIND BREAK TREE PLANTATION	⊗

NOTE:
FEED BUNKS, WIND BREAK FENCES, GATES & ASSOCIATED CONCRETE CURBS BY AAFC.



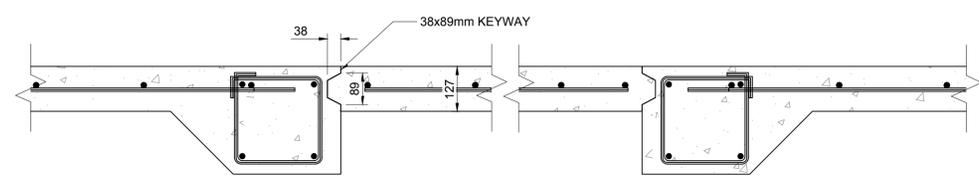
2 SLAB EDGE DETAIL

2
S101
1:50
SHEET REF.: S101



3 NEW SLAB TO EXISTING SLAB CONNECTION

3
S101
1:50
SHEET REF.: S101



4 SLAB CONSTRUCTION JOINT DETAIL

4
S101
1:50
SHEET REF.: S101



Revision	Description	Date
5		
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0	Design Completion	

PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

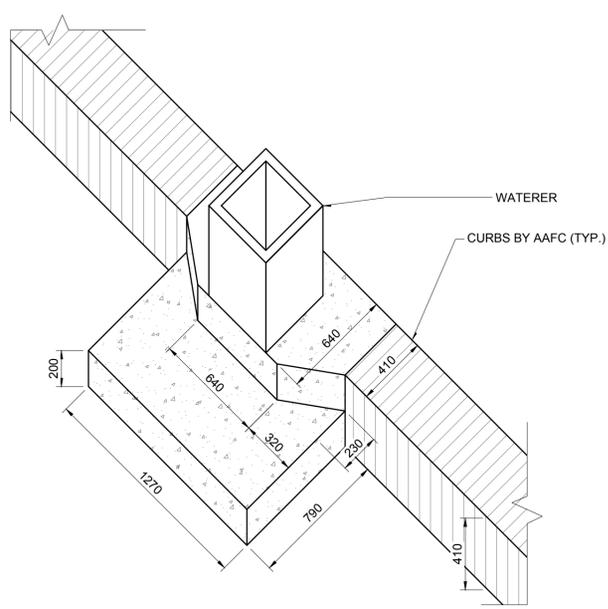
Project title: **BEEF FEEDLOT WATER RENOVATION & EXPANSION LACOMBE, AB**

Designed by: **JLF** / Conçu par
 Drawn by: **JF** / Dessiné par
 Approved by: **DGH** / Approuvé par
 PWGSC Project Manager / Administrateur de Projets TPSGC

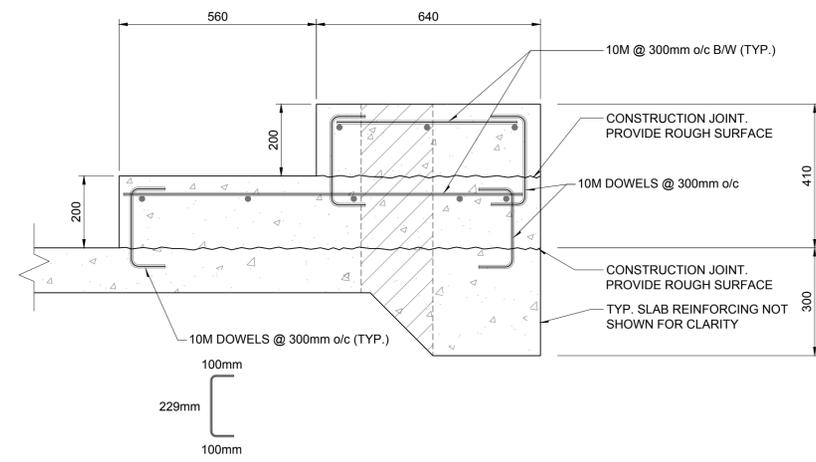
Drawing title: **STRUCTURAL DETAILS - PENNING FOUNDATION**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	S101	0

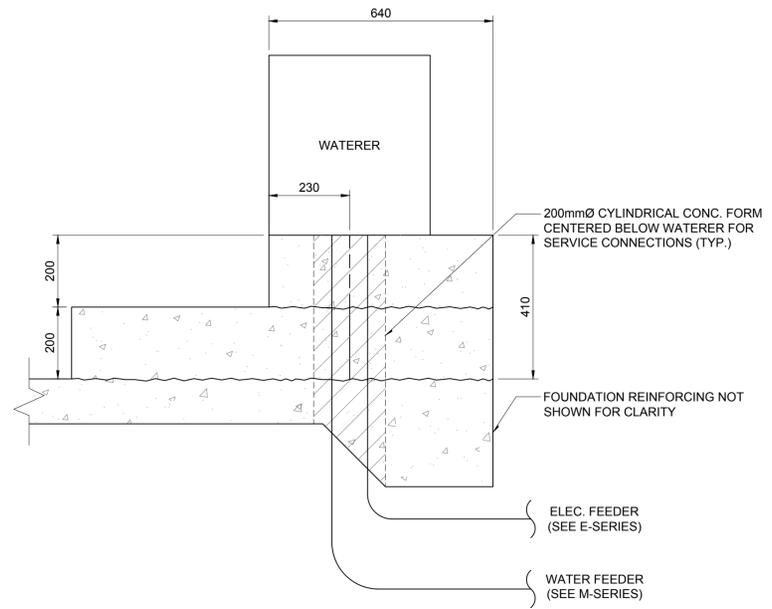
ISSUED FOR TENDER



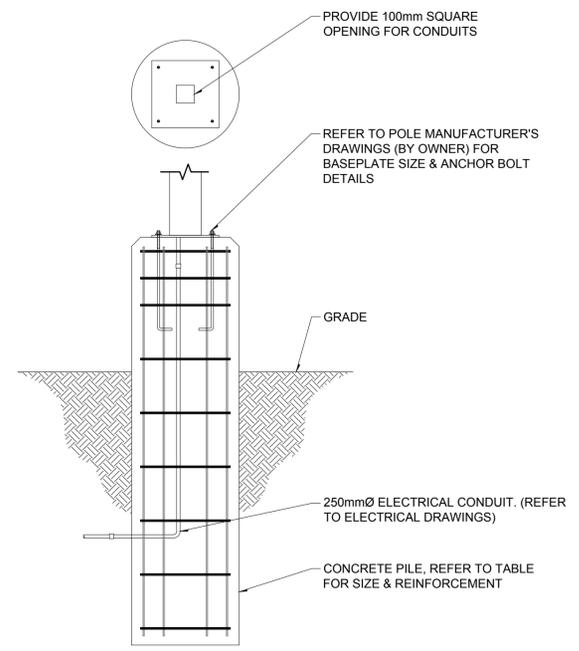
ISOMETRIC VIEW OF WATERER



6 TYP. WATERER REINFORCEMENT DETAILS



5 TYP. WATERER FOUNDATION DETAIL



NOTE:
INSTALL LAMP STANDARD PRIOR TO EXCAVATION.

LAMP STANDARD BASES				
POLE HT.	PILE DIAMETER	DEPTH BELOW FINISH GRADE	REINFORCEMENT	REMARKS
7.60m	400mmØ	3.70m	6: 20M VERTICALS & 10M RINGS @ 300mm o/c	TOP 1.50m OF PILE TO BE POURED w/ SONOTUBE IN PLACE & WRAPPED w/ 6mil POLY TYP.

7 TYP. LAMP STANDARD DETAIL



Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/19
1	99% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

PUBLIC WORKS & GOVERNMENT SERVICES
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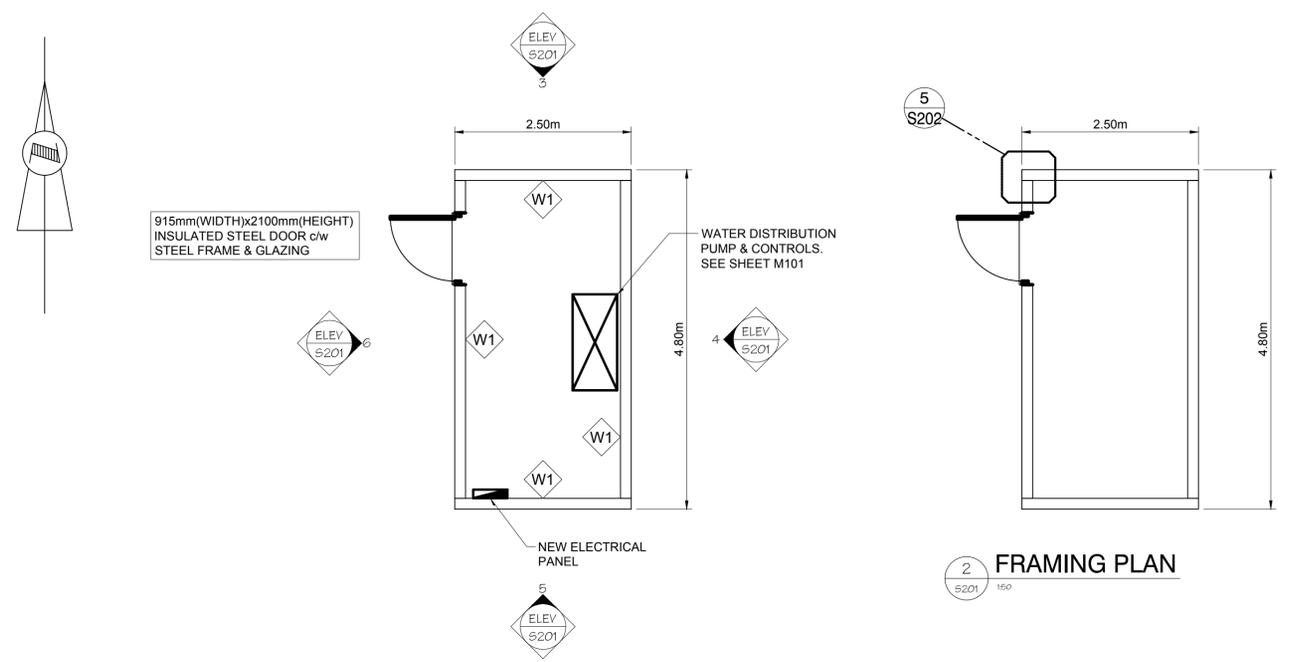
Designed by: JLF
Drawn by: JF
Approved by: DGH
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title: **STRUCTURAL DETAILS**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	S102	0

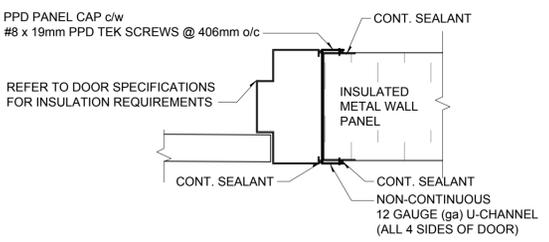
ISSUED FOR TENDER

TAG	DESCRIPTION	REMARKS
F1	127mm CONCRETE SLAB	SEE DETAIL 5 FOR SPECIFICATIONS
W1	150mm INSULATED METAL PANEL	ALL EXPOSED EDGES TO BE FLASHED, FLASHING TO MATCH IMP COLOR
R1	150mm INSULATED METAL PANEL	ALL EXPOSED EDGES TO BE FLASHED, FLASHING TO MATCH IMP COLOR

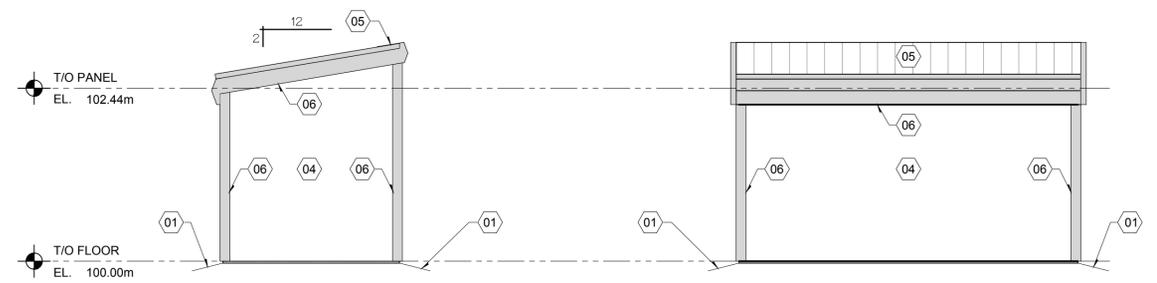


1 FLOOR PLAN
S201 150 SHEET REF.: 9101

2 FRAMING PLAN
S201 150

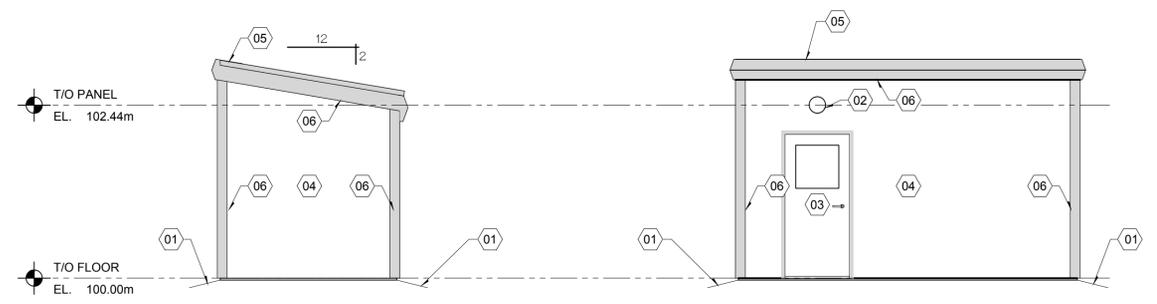


7 TYP. DOOR JAMB DETAIL
S201 150



3 BUILDING ELEVATION
S201 150 SHEET REF.: 9201

4 BUILDING ELEVATION
S201 150 SHEET REF.: 9201



5 BUILDING ELEVATION
S201 150 SHEET REF.: 9201

6 BUILDING ELEVATION
S201 150 SHEET REF.: 9201

TAG	DESCRIPTION
01	GRADE
02	EXTERIOR LIGHT FIXTURE
03	STEEL INSULATED DOOR
04	INSULATED METAL WALL PANEL
05	INSULATED METAL ROOF PANEL
06	METAL TRIMMING



Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	90% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title / Projet
BEEF FEEDLOT WATER RENOVATION & EXPANSION
LACOMBE, AB

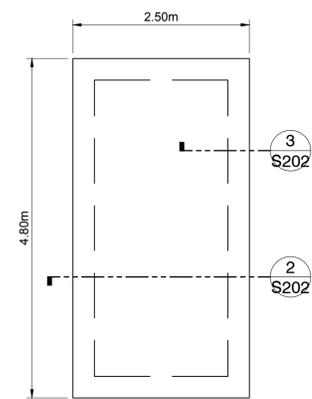
Designed by / Conçu par: **JLF**
Drawn by / Dessiné par: **JF**
Approved by / Approuvé par: **DGH**
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title / Titre du dessin
PUMP HOUSE - FLOOR PLANS & ELEVATIONS

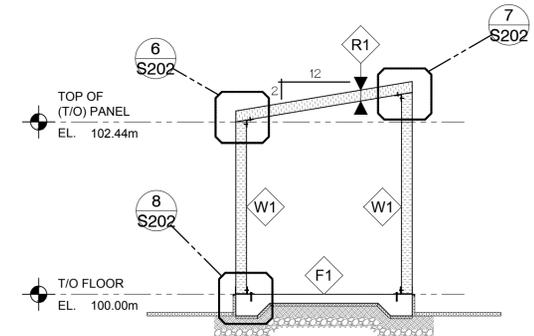
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	S201	0

ISSUED FOR TENDER

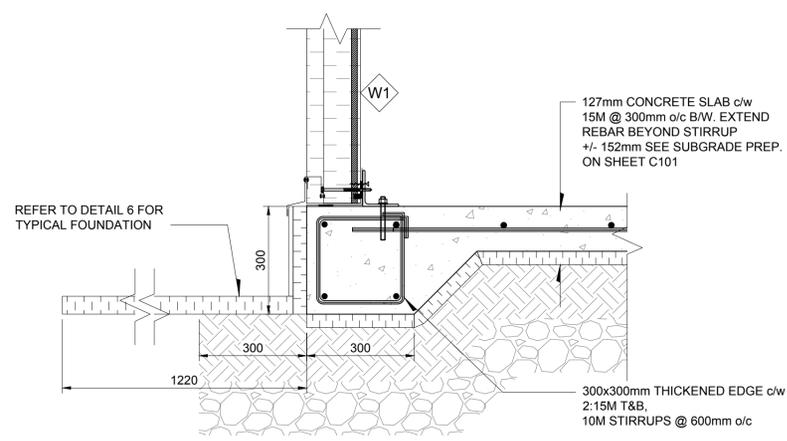
FRAMING SCHEDULE		
TAG	DESCRIPTION	REMARKS
F1	127mm CONCRETE SLAB	SEE DETAIL 5 FOR SPECIFICATIONS
W1	150mm INSULATED METAL PANEL	ALL EXPOSED EDGES TO BE FLASHED, FLASHING TO MATCH IMP COLOR
R1	150mm INSULATED METAL PANEL	ALL EXPOSED EDGES TO BE FLASHED, FLASHING TO MATCH IMP COLOR



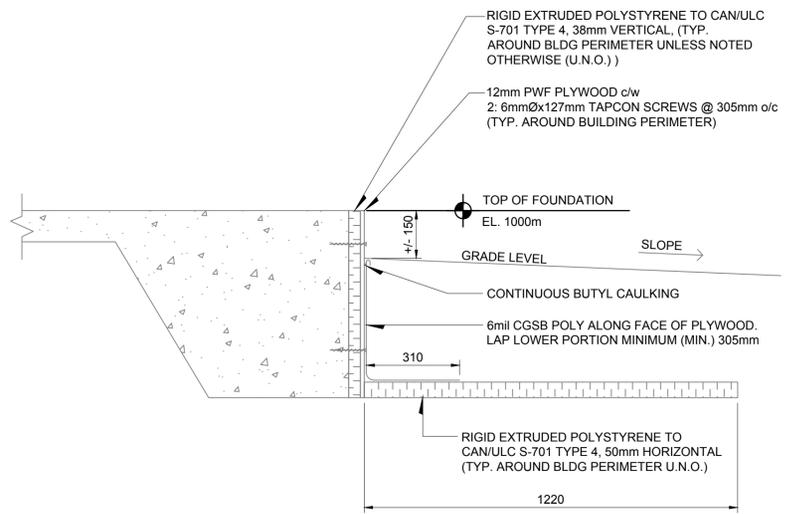
1 FOUNDATION PLAN
S202 N.T.S. SHEET REF.: S202



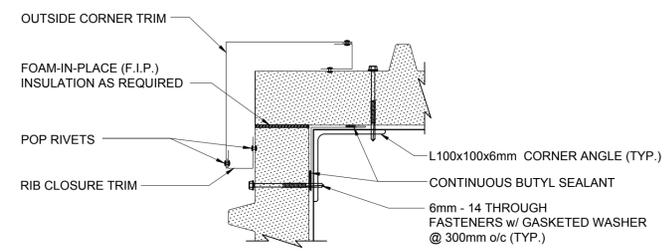
2 BUILDING SECTION
S202 N.T.S. SHEET REF.: S202



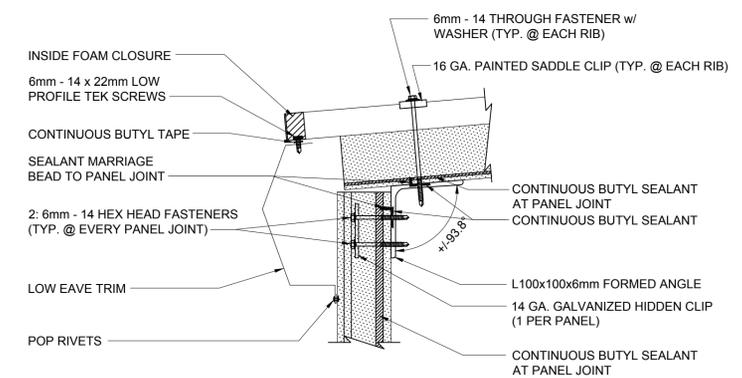
3 FOUNDATION DETAIL
S202 N.T.S. SHEET REF.: S202



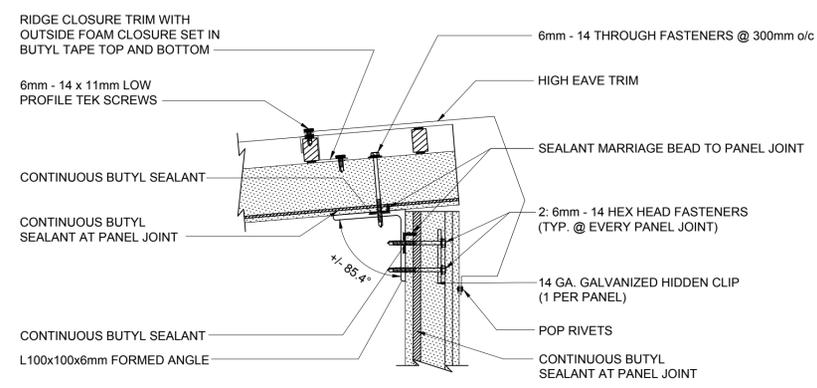
4 FOUNDATION INSULATION
S202 N.T.S.



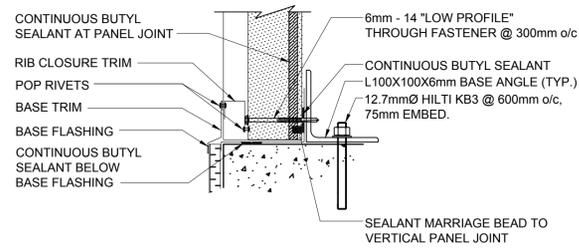
5 FRAMING PLAN
S202 N.T.S. SHEET REF.: S201



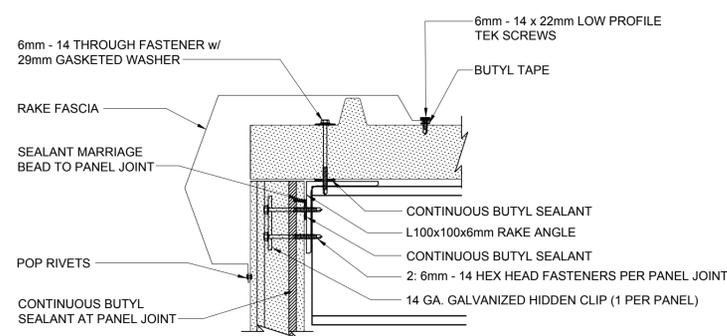
6 FRAMING PLAN
S202 N.T.S. SHEET REF.: S202



7 FRAMING PLAN
S202 N.T.S. SHEET REF.: S202



8 FRAMING PLAN
S202 N.T.S. SHEET REF.: S202



9 TYP. RAKE DETAIL
S202 N.T.S.



Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	90% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

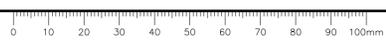
PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title: **BEEF FEEDLOT WATER RENOVATION & EXPANSION**
LACOMBE, AB

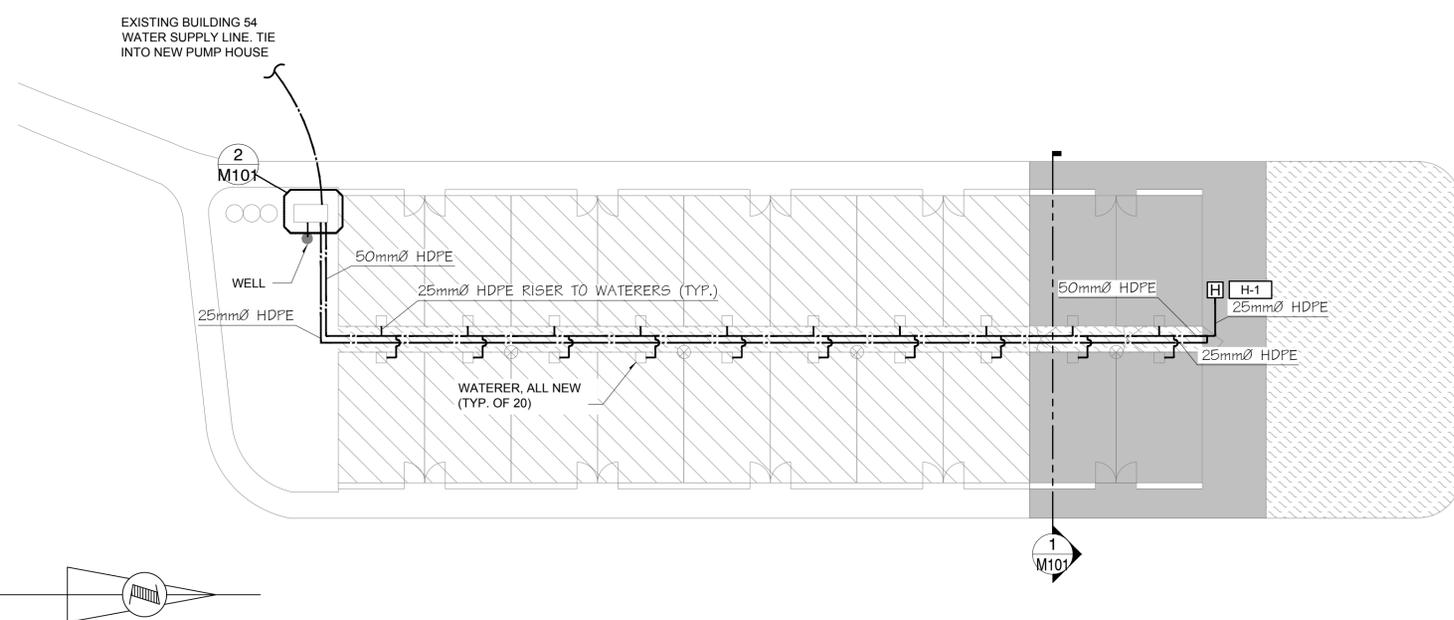
Designed by: JLF / Conçu par: JLF
Drawn by: JF / Dessiné par: JF
Approved by: DGH / Approuvé par: DGH
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title: **PUMP HOUSE - FOUNDATION PLAN & STRUCTURAL DETAILS**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	S202	0



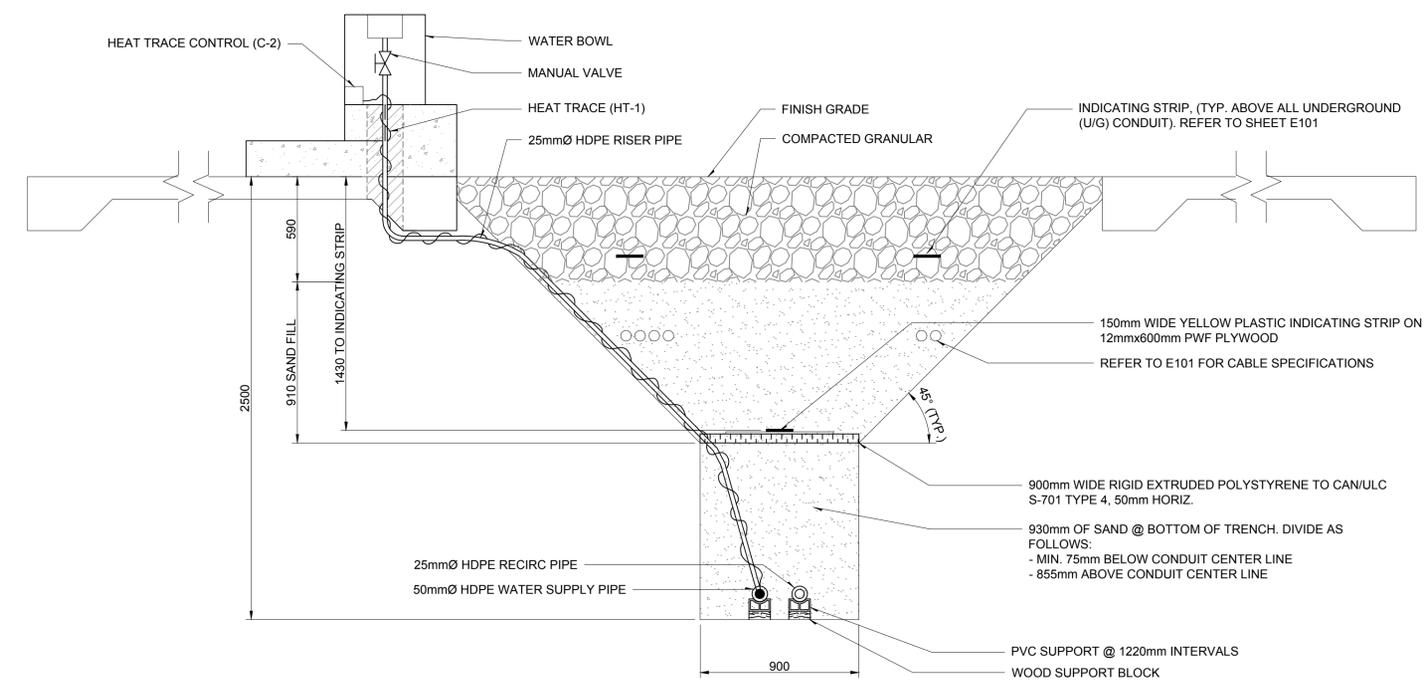
ISSUED FOR TENDER



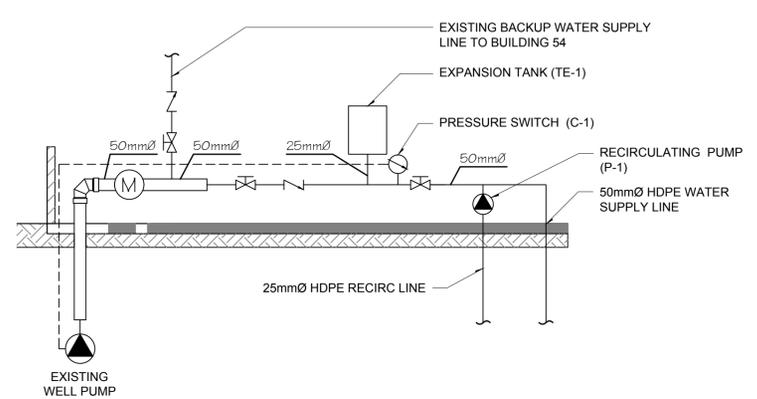
ENLARGED MECHANICAL SITE LAYOUT

SCALE: 1:500

LEGEND			
ITEM	SYMBOL	ITEM	SYMBOL
PROPERTY LINE	---	FITTING - GATE/GLOBE VALVE	
EXISTING PENS TO REMAIN		EQUIPMENT - SYSTEM PUMP	
NEW CONCRETE PENS AND ALLEYS		DEVICE - PRESSURE GAUGE	
DOMESTIC COLD WATER LINE	---	FORCED FAN HEATER (FFH-X)	
PIPING - ANNOTATION, PIPE SIZE (00" DIAMETER)		CHECK VALVE	
FROST FREE HYDRANT	H	WATER METER	

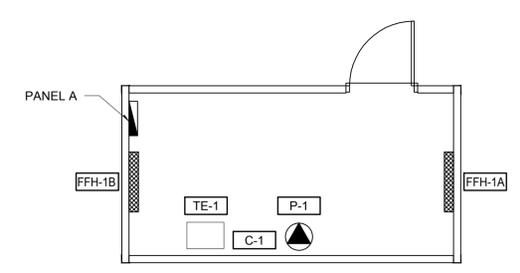


1 TYPICAL TRENCH DETAIL
M101 100 SHEET REF: M101



NOTE:
ALL PIPING, FITTINGS, & EQUIPMENT NEW
UNLESS NOTED OTHERWISE.

WELL DETAIL



2 PUMP HOUSE EQUIPMENT LAYOUT
M101 150 SHEET REF: M101



Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	90% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

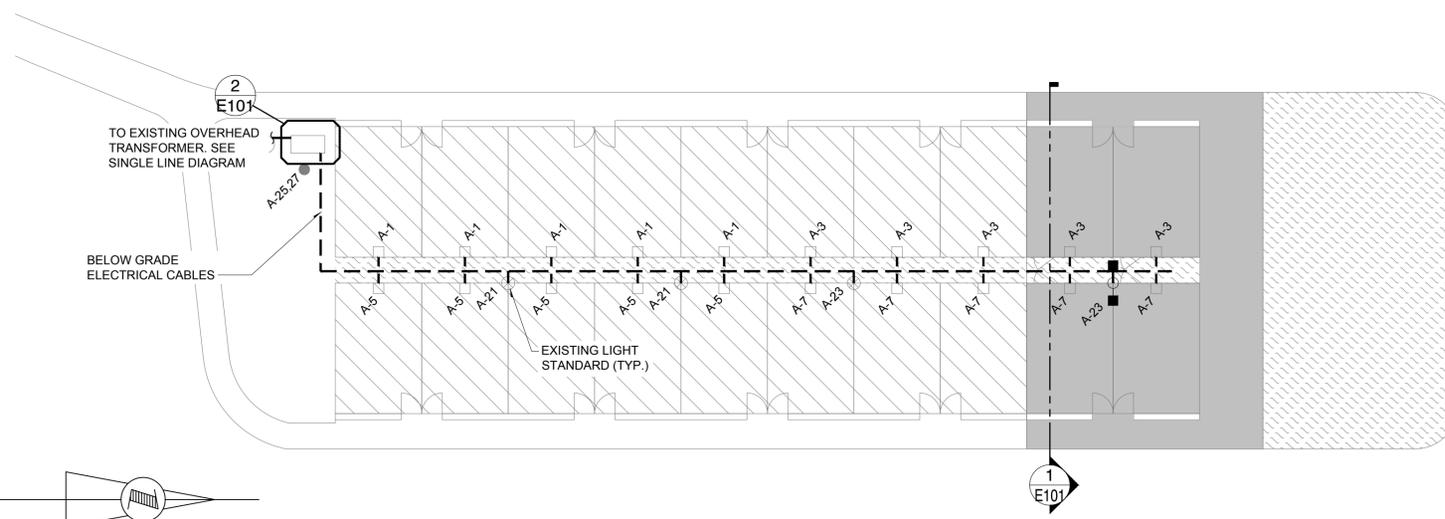
Project title: **BEEF FEEDLOT WATER RENOVATION & EXPANSION**
LACOMBE, AB

Designed by MAH	Conçu par
Drawn by JF	Dessiné par
Approved by DGH	Approuvé par
PWSSC Project Manager	Administrateur de Projets TPSGC

Drawing title: **MECHANICAL SITE LAYOUT**
Titre du dessin

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	M101	0

ISSUED FOR TENDER

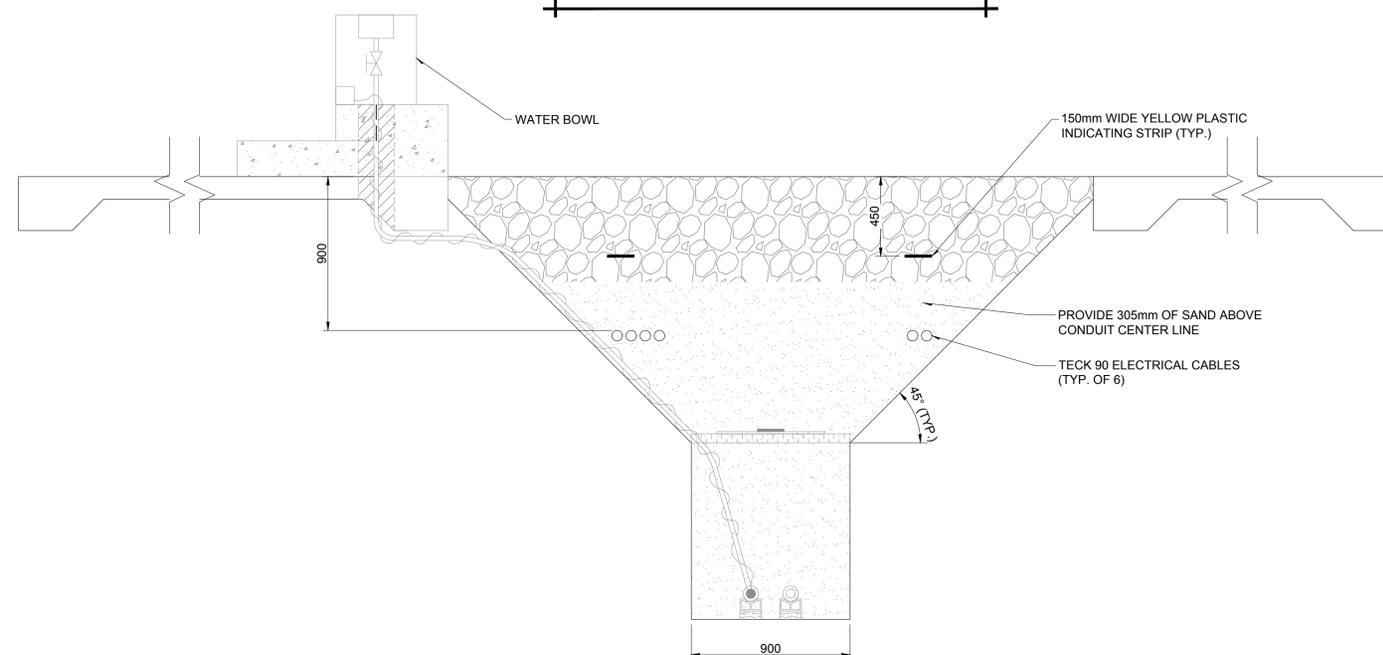


ENLARGED ELECTRICAL SITE LAYOUT

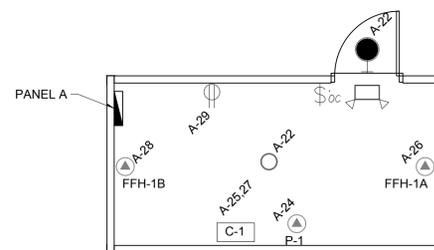
SCALE: 1:500

ITEM	SYMBOL	REMARKS
PROPERTY LINE	- - - -	
EXISTING PENS TO REMAIN	[Hatched Box]	
NEW CONCRETE PENS AND ALLEYS	[Solid Grey Box]	
UNDERGROUND CONDUIT	- - - -	
SWITCH 20A, 120V, OCCUPANCY SENSOR	[Switch Symbol]	
LIGHT FIXTURE, EXTERIOR TYPE w/ PHOTOCELL, SURFACE WALL MOUNT	[Light Fixture Symbol]	12W LED
LIGHT FIXTURE	[Light Fixture Symbol]	20W LED
EMERGENCY BATTERY PACK	[Battery Symbol]	2: 4W LED w/ BATTERY CAPACITY 32W FOR 30 MINUTES
EQUIPMENT CONNECTION	[Triangle Symbol]	
ELECTRICAL POWER PANEL	[Panel Symbol]	
RECEPTACLE 15A, 120V, DUPLEX AT 18" A.F.F.	[Receptacle Symbol]	
EXTERIOR LIGHT STANDARD (2-HEAD)	[Light Standard Symbol]	200W LED

NOTE: REFER TO M101 FOR TYPICAL TRENCH & BURIED CONDUIT DETAILS.



1 TYPICAL TRENCH DETAIL
E101 100 SHEET REF: E101



2 ENLARGED PUMP HOUSE
E101 150 SHEET REF: E101



2017-05-17

Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	90% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title: **BEEF FEEDLOT WATER RENOVATION & EXPANSION LACOMBE, AB**

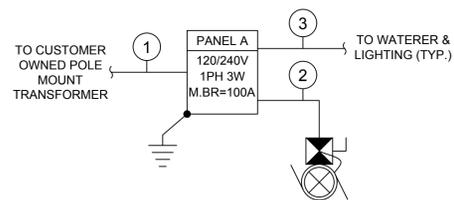
Designed by: **KAS**
Drawn by: **JF**
Approved by: **DGH**
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title: **ELECTRICAL SITE LAYOUT**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	E101	0

ISSUED FOR TENDER

Project Name: AAFC Beef Feedlot, Lacombe, AB Project Number: 1020-024

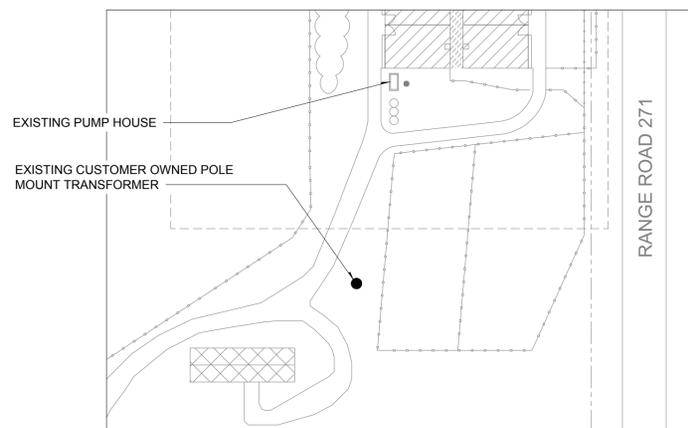


FEEDER SCHEDULE	
1	3#2/0+1#6 - 1 1/2" (Table D10B Diagram D10 Detail 1) 60M
2	3#10+1#12 Teck 90
3a	2#10+1#12 Teck 90 up to 40M. (Circuit 1)
3b	2#8+1#10 Teck 90 up to 70M. (Circuit 3)
3c	2#6+1#8 Teck 90 up to 110M. (Circuit 5)
3d	2#4+1#8 Teck 90 up to 170M. (Circuit 7)

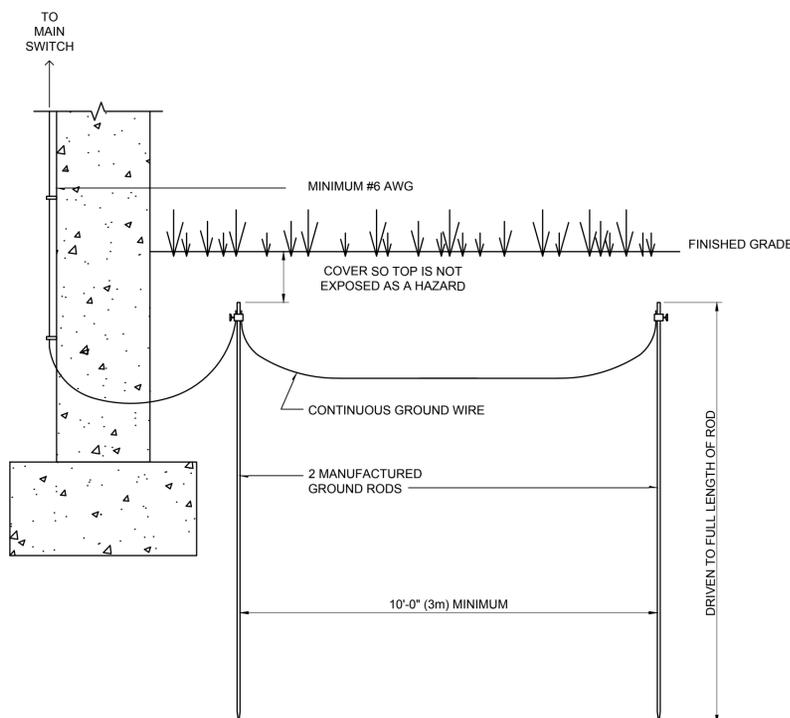
DISTRIBUTION DIAGRAM

120/240 : VOLTS		1 : PHASE		3 : WIRES		11056 : WATTS		PANEL BOARD: A		BUS : 100A		FEEDER :		Main Br. : 100A		AMPS : 46.07	
DESCRIPTION	WATTS	LIGHT	REC	OTHER	CIR.	BRK.	A		B		BRK.	CIR.	OTHER	REC	LIGHT	WATTS	DESCRIPTION
Waterers w/ Heat trace #1-5	1015				10	1	15	●	●	15	2						Spare
Waterers w/ Heat trace #6-10	1015				10	3	15	●	●	15	4						Spare
Waterers w/ Heat trace #11-15	1015				10	5	15	●	●	15	6						Spare
Waterers w/ Heat trace #16-20	1015				10	7	15	●	●	15	8						Spare
Blank						9		●	●	15	10						Spare
Blank						11		●	●	15	12						Spare
Blank						13		●	●	15	14						Spare
Blank						15		●	●	15	16						Spare
Blank						17		●	●	15	18						Spare
Blank						19		●	●	15	20						Spare
Light Standard w/ Photocell	1200	4				21	15	●	●	15	22	1		2	50		Lighting Pump House
Light Standard w/ Photocell	1200	4				23	15	●	●	15	24	1			506		P-1
Well Pump 2HP	920			1		25	30	●	●	20	26	1			1500		FFH-1A
						27	2P	●	●	20	28	1			1500		FFH-1B
Receptacle	120		1			29	15	●	●	15	30						Spare
Blank						31		●	●	15	32						Spare
Blank						33		●	●		34						Blank
Blank						35		●	●		36						Blank
Blank						37		●	●		38						Blank
Blank						39		●	●		40						Blank
Blank						41		●	●		42						Blank
							7500										3556

LEGEND	
ITEM	SYMBOL
MOTOR, EQUIPMENT	
MOTOR DISCONNECT	



KEY PLAN



ELECTRICAL CURRENT GROUNDING CONDUCTOR



AB PERMIT TO PRACTICE NUMBER: P 6498

2017-05-17

Revision	Description	Date
5		
4		
3		
2	100% CONSTRUCTION DOCUMENTS	2017/05/18
1	90% CONSTRUCTION DOCUMENTS	2017/03/28
0	Design Completion	

PUBLIC WORKS & GOVERNMENT SERVICES
ATB PLACE NORTH TOWER, 10025 JASPER AVE., EDMONTON, AB.

Project title
BEEF FEEDLOT WATER RENOVATION & EXPANSION LACOMBE, AB

Designed by **KAS** / Conçu par
Drawn by **JF** / Dessiné par
Approved by **DGH** / Approuvé par
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title
DISTRIBUTION DIAGRAM & PANELS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R. 082927.001	E201	0