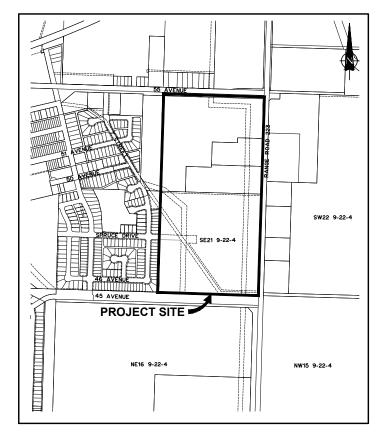


LOCATION PLAN



SITE PLAN



## TOWN OF COALHURST MAIN CONSTRUCTED WETLAND FOR CONSTRUCTION 1450-087-00

SET



LIST OF	DRAWINGS
<u>GENERAL</u>	
	TITLE PAGE
G0.1	LIST OF DRAWINGS
<u>CIVIL</u>	
CO.1	CIVIL LEGEND
C0.2	CIVIL ABBREVIATIONS
C1.1	OVERALL SITE PLAN
C1.2	MAIN WETLAND UNDERGROUND SITE PLAN
C1.3	LAFARGE WETLAND UNDERGROUND SITE PLAN
C2.1	UNDERGROUND PLAN PROFILE LAFARGE WETLAND TO MAIN WETLAND STATION 0+000 TO STATION 0+180
C2.2	UNDERGROUND PLAN PROFILE LAFARGE WETLAND TO MAIN WETLAND STATION 0+180 TO STATION 0+360
C2.3	UNDERGROUND PLAN PROFILE LAFARGE WETLAND INLET
C2.4	UNDERGROUND PLAN PROFILE MAIN WETLAND WEST INLET
C2.5	UNDERGROUND PLAN PROFILE MAIN WETLAND SOUTH WEST INLET
C2.6	UNDERGROUND PLAN PROFILE MAIN WETLAND OUTLET
C3.1	MAIN WETLAND GRADING PLAN
C3.2	LAFARGE WETLAND GRADING PLAN
C3.3	MAIN WETLAND CROSS SECTIONS 1 OF 3
C3.4	MAIN WETLAND CROSS SECTIONS 2 OF 3
C3.5	MAIN WETLAND CROSS SECTIONS 3 OF 3
C3.6	LAFARGE WETLAND CROSS SECTIONS 1 OF 2
C3.7	LAFARGE WETLAND CROSS SECTIONS 2 OF 2
C3.8	DRAINAGE SWALE SITE PLAN
C3.9	RV SANITARY DISPOSAL SITE PLAN
C4.1	MAIN WETLAND RESTORATION SITE PLAN
C4.2	LAFARGE WETLAND RESTORATION SITE PLAN
C4.3	MAIN WETLAND VEGETATION RESTORATION PLAN
C4.4	LAFARGE WETLAND VEGETATION RESTORATION PLAN
C4.5	VEGETATION RESTORATION TABLE
C5.1	ST VAULT 8 STRUCTURE DETAILS
C5.2	TYPICAL STRUCTURE DETAILS
C5.3	METER VAULT DETAIL
C5.4	RV SANITARY DISPOSAL SITE CONCRETE PAD DETAIL
C5.5	MAIN WETLAND PEDESTRIAN BRIDGE DETAIL
C5.6	DRAINAGE SWALE PEDESTRIAN BRIDGE DETAIL
C5.7	TYPICAL DETAILS 1 OF 4
C5.8	TYPICAL DETAILS 2 OF 4
C5.9	TYPICAL DETAILS 3 OF 4
C5.10	TYPICAL DETAILS 4 OF 4
ARCHITEC	
A1.1	ELEVATIONS
A2.1	PLAN
A2.2	ROOF PLAN
A3.1	SECTION
A3.2	SECTIONS AND DETAILS
A3.2 A4.1	DETAILS
ELECTRIC	
E0.1	ELECTRICAL LEGEND
E1.1	OVERALL SITE PLAN
E1.2	ELECTRICAL SITE PLAN 1 OF 2

E1.3

ELECTRICAL SITE PLAN 2 OF 2

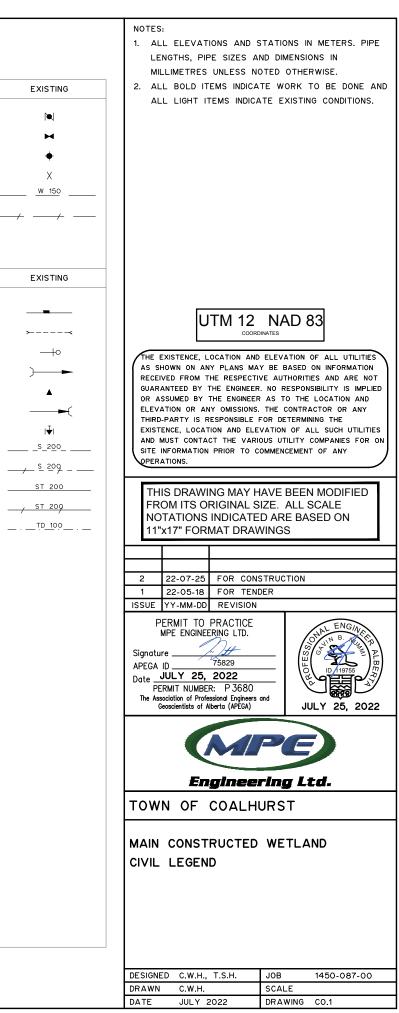
- E1.4 COMMUNICATION ARCHITECTURE DEMOLITION
- E1.5 COMMUNICATION ARCHITECTURE PROPOSED
- E1.6 SINGLE LINE DIAGRAM
- E1.7 ELECTRICAL BUILDING LAYOUT
- E1.8 LIGHTING JUNCTION BOX
- E1.9 CONTROL BUILDING PLC IO
- E1.10 SCHEDULES
- E1.11 DETAILS 1 OF 2
- E1.12 DETAILS 2 OF 2
- E2.1 MAIN LIFT STATION COMMUNICATION AND CONTROL
- E3.1 DISTRIBUTION PUMPING STATION COMMUNICATION AND CONTROL
- E4.1 SUNDANCE RIDGE COMMUNICATION AND CONTROL
- E5.1 METER VAULT COMMUNICATION

NOTES: 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature \_\_\_\_\_\_ 75829 APEGA ID\_ Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 E 1P Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND LIST OF DRAWINGS DESIGNED C.W.H., T.S.H. JOB 1450-087-00 DRAWN C.W.H. SCALE DATE JULY 2022 DRAWING GO.1

PROPOSED       SURFACE FEATURES       EXISTING         PROPOSED       SURFACE FEATURES       EXISTING         Image: Strate in the stra	OPOSED	LEGAL SURVEY AND CONTROL	EXISTING	
OUNTROL POINT       • cP I         IRON PIN       OIP         PROPOSED       SURFACE FEATURES       EXISTING			ASCM No	
IRON PIN       ●IP         PROPERTY LINE       UILITY RICHT OF WAY         EASEMENT       EXISTING         ●       SURFACE FEATURES       EXISTING         ●       ABBREVIATION ELEVATION       ● XXXX         ●       BOLLARD       ●         ●       BOREHOLE       ●         ●       BUS PAD       EP         BUS SHELTER       ES       ●         CONCRETE SWALE       ●       ●         ●       DRAINAGE SWALE       ●         ●       DRAINAGE SWALE       ●         ●       ●       PROPOR       ●         ●       PROPOR       ●       ●         ●       DRAINAGE SWALE       ●       ●         ●       PROPOR       ●       ●         ●       PROPOR       ●       ●         ●       PROE CAIN LINK			CP No.	
PROPERTY LINE UTILITY RIGHT OF WAY EASEMENT          PROPOSED       SURFACE FEATURES       EXISTING				
UTILITY RIGHT OF WAY EASEMENT			UIF	
PROPOSED     SURFACE FEATURES     EXISTING				
↓ XXX       ABBRE VIATION ELEVATION       ↓ XXX         ▲ SPHALT SWALE       ↓ XXX         ●       BOLLARD       ●         ●       BOREHOLE       ●         ●       BOREHOLE       ●         ●       BUS PAD       □         BUS SHELTER       □       □         □       CONCRETE SWALE       □         □       CURB AND GUTTER       □         □       CURB ANDE SWALE       □         □       CURB ANDE SWALE       □         □       CURB CONCERTER       □         □       ELECTRICAL TRANSFORMER       □         □       ELECTRICAL TRANSFORMER       □         □       EENCE CHAIN LINK       □         □       FENCE TO BE REMOVED       □         □       GRADE BREAK       □         □       GRADE BREAK       □         □       PED	E	ASEMENT		
↓ XXX       ABBRE VIATION ELEVATION       ↓ XXX         ▲ SPHALT SWALE       ↓ XXX         ●       BOLLARD       ●         ●       BOREHOLE       ●         ●       BOREHOLE       ●         ●       BUS PAD       □         BUS SHELTER       □       □         □       CONCRETE SWALE       □         □       CURB AND GUTTER       □         □       CURB ANDE SWALE       □         □       CURB ANDE SWALE       □         □       CURB CONCERTER       □         □       ELECTRICAL TRANSFORMER       □         □       ELECTRICAL TRANSFORMER       □         □       EENCE CHAIN LINK       □         □       FENCE TO BE REMOVED       □         □       GRADE BREAK       □         □       GRADE BREAK       □         □       PED	OPOSED	SURFACE FEATURES	EXISTING	
Image: state of the state				
→       ASPHALT SWALE         →       BOLLARD         →       BOREHOLE         →       BUSH         →       BUS PAD         BUS SHELTER       ES         →       CONCRETE SWALE         →       DRAINAGE DITCH         →       DRAINAGE SWALE         →       FENCE CHAIN LINK         →       FENCE TO BE REMOVED         ↓       FENCE TO BE REMOVED         ↓       GRADE BREAK         ↓       ↓         ↓       SIGN         →       PED         ↓       PED         ↓       PED         ↓       PED         ↓       ↓         ↓       PED         ↓       ↓         ↓       ↓         ↓       ↓         ↓       ↓         ↓ </td <td></td> <td></td> <td><math>+ \frac{xxx}{xxx.xx}</math></td>			$+ \frac{xxx}{xxx.xx}$	
⊕       BOREHOLE       ●         ⊕       BUSH       ●         BUS PAD       ■         BUS SHELTER       ■         ■       ○       ORAINAGE DITCH         ●       ORAINAGE SWALE       ●         ●       ORAINAGE SWALE       ●       ●         ●       PEDE CTICAL TRANSFORMER       ●       ●         ●       FENCE TO BE REMOVED       ●       ●         ●       GUY WIRE       ●       ●         ●       ●       ●       ●       ●         ●       Ø       Ø       ●       ●         ●       ●       ●       ●       ●				
BUSH       Image: Second	© B	DLLARD	۲	
BUS PAD       BP         BUS SHELTER       BS         CONCRETE SWALE       GS         CONCRETE SWALE       GS         CURB AND GUTTER       GS         DRAINAGE DITCH       CCC         CONCRETE SWALE       GCC         DRAINAGE SWALE       CCC         CONCRETE STAL       CONCRETE STAL         CONCRETE STAL       CONCRETE STAL         COPP       POWER POLE         ROAD MARKING DELINEATION       CCC         CONDUCTION       SEPARATE SIDEWALK         CONDUCTION       SIGN       CONCRETE	в	OREHOLE	•	
BUS PAD BUS SHELTER CONCRETE SWALE CURB AND GUTTER CURB AND G	E BI	JSH	67	
CONCRETE SWALE		JS PAD		
CURB AND GUTTER         CURB AND GUTTER         CURB AND GUTTER         CURB AND GUTTER         CRAINAGE DITCH         CRAINAGE SWALE         CRAINAGE SWALE         CRAINAGE SWALE         CURB AND GUTTER         CRAINAGE SWALE         CRAINAGE SWALE         CRAINAGE SWALE         CRAINAGE SWALE BACKFILLED         CRAINAGE SWALE BACKFILED         CO         CO         CO         CO         FENCE BARBED WIRE         SERACE TO BE REMOVED         CO         GRADE BREAK         MAIL BOX         MAIL BOX         MAIL BOX         MONOLITHIC SIDEWALK         PED         OPP         POWER POLE         ROAD MARKING DELINEATION         ROAD MARKING DELINEATION         ROAD MARKING DELINEATION         SIGN	В	JS SHELTER	BS	
→→→→→     DRAINAGE DITCH     →→→→→       →→→→→     DRAINAGE SWALE     →→→→→→       →→→→→→→     DRAINAGE SWALE BACKFILLED     →→→→→→→→       →□→→→→→→     EDGE OF PAVEMENT     →→→→→→→→→       →□→→→→→→     FENCE BARBED WIRE     →→→→→→→→→→→       →□→→→→→→     FENCE CHAIN LINK     →□→→→→→→→       →□→→→→→→     FENCE TO BE REMOVED     →→→→→→→→       →□→→→→→→     FENCE TO BE REMOVED     →→→→→→→       →□→→→→→→     FENCE TO BE REMOVED     →□→→→→→→       →□→→→→→→     FENCE TO BE REMOVED     →□→→→→→→→       →□→→→→→→     FENCE TO BE REMOVED     →□→→→→→→→       →□→→→→→→     FENCE TO BE REMOVED     →□→→→→→→→       →□→→→→→→     FENCE TO BE REMOVED     →□→→→→→→→→→→       →□→→→→→→→     FENCE TO BE REMOVED     →□→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→		ONCRETE SWALE		
≪ ≪ ≪           DRAINAGE SWALE <td <td<="" td=""><td> CI</td><td>JRB AND GUTTER</td><td></td></td>	<td> CI</td> <td>JRB AND GUTTER</td> <td></td>	CI	JRB AND GUTTER	
→ → → → → → → → → → → → → → → → → → →	c C Dr	RAINAGE DITCH	$\leftarrow$	
△ET       EDGE OF PAVEMENT         ▲ET       ELECTRICAL TRANSFORMER         Y       FENCE BARBED WIRE         PO       FENCE CHAIN LINK         O       FENCE TO BE REMOVED         (GW       GUY WIRE         GRADE BREAK		RAINAGE SWALE	— <del>~ ~ ~ ~ ~ ~ ~</del>	
△ET       ELECTRICAL TRANSFORMER       ▲ET	- —— DF	RAINAGE SWALE BACKFILLED		
x       FENCE BARBED WIRE       x         -0       0       FENCE CHAIN LINK       0       0         • GW       GUY WIRE       • GW       GUY WIRE       • GW         • GW       GUY WIRE       • GW       GRADE BREAK       • GW         ×LS       LIGHT STANDARD       × LS         MAIL BOX       ✓       ✓         • PP       PEDESTAL       ▲ PED         • PP       POWER POLE       • PP         ROAD MARKING DELINEATION        ✓         SIGN       -0	Er	DGE OF PAVEMENT		
-0       FENCE CHAIN LINK       _0       0         -x       FENCE TO BE REMOVED       _0         .GW       GUY WIRE       .GW         .GW       GUY WIRE       .GW         .GW       GRADE BREAK		_ECTRICAL TRANSFORMER	▲ <sup>ET</sup>	
→ SW       FENCE TO BE REMOVED         ↓ GW       GUY WIRE         ↓ GW       GRADE BREAK         ↓ XLS       LIGHT STANDARD         ↓ MAIL BOX       ✓         ▲ PED       PEDESTAL         ↓ PP       POWER POLE         ▲ RILWAY       ++++++++++++++++++++++++++++++++++++	— <b>x</b> —— Ff	ENCE BARBED WIRE	x	
<ul> <li>GW</li> <li>GUY WIRE</li> <li>GRADE BREAK</li> <li>X<sup>LS</sup></li> <li>LIGHT STANDARD</li> <li>X<sup>LS</sup></li> <li>MAIL BOX</li> <li>MONOLITHIC SIDEWALK</li> <li>PED</li> <li>PP</li> <li>POWER POLE</li> <li>ROAD MARKING DELINEATION</li> <li>ROAD RECONSTRUCTION</li> <li>SEPARATE SIDEWALK</li> </ul>	o Fr	ENCE CHAIN LINK	oo	
GRADE BREAK x <sup>LS</sup> LIGHT STANDARD x <sup>LS</sup> MAIL BOX MONOLITHIC SIDEWALK A PED PEDESTAL PED POWER POLE SIGN	<b>x — — x —</b> Fr	ENCE TO BE REMOVED		
xLS       LIGHT STANDARD       xLS         MAIL BOX       ⊠         MONOLITHIC SIDEWALK       □         PED       PEDESTAL       ^PED         oPP       POWER POLE       •PP         ROAD MARKING DELINEATION       □       □         ©       ROAD MARKING DELINEATION       □         SEPARATE SIDEWALK       □       □         O       SIGN       ○	∉ GW GI	JY WIRE	<b>∳</b> GW	
MAIL BOX     Image: Construction       ▲ PED     PEDESTAL       ● PP     POWER POLE       ROAD MARKING DELINEATION       Image: Construction       SEPARATE SIDEWALK	Gr	RADE BREAK		
MONOLITHIC SIDEWALK         MONOLITHIC SIDEWALK         PED         PED         PP         POWER POLE         ROAD MARKING DELINEATION         ROAD RECONSTRUCTION         SEPARATE SIDEWALK         O         SIGN	ж <sup>ls</sup> LI	GHT STANDARD	¥LS	
▲ PED       MONOLITHIC SIDEWALK         ▲ PED       PEDESTAL         ● PP       POWER POLE         ■ RAILWAY       ++++++++++++++++++++++++++++++++++++	м	AIL BOX		
▲ PED       PEDESTAL       ▲ PED         • PP       POWER POLE       • PP         RAILWAY       ++++++++++++++++++++++++++++++++++++				
• PP     POWER POLE     • PP       RAILWAY     +++++++++++       •     ROAD MARKING DELINEATION       •     ROAD RECONSTRUCTION       •     SEPARATE SIDEWALK       •     SIGN			▲ PED	
Image: Road marking delineation       Image: Road reconstruction       Image: Road reconstruction <t< td=""><td></td><td>OWER POLE</td><td>• PP</td></t<>		OWER POLE	• PP	
ROAD MARKING DELINEATION     ROAD RECONSTRUCTION     SEPARATE SIDEWALK     O	R	AILWAY	+++++++++++++++++++++++++++++++++++++++	
C////////////////////////////////////	Ø R	OAD MARKING DELINEATION		
-o- SIGN -o-		OAD RECONSTRUCTION		
-o- SIGN -o-	sr	EPARATE SIDEWALK		
	<b></b>   <sub>si</sub>	LT FENCE	-000	
OTS TRAFFIC SIGNAL OTS			©™s	
* TREE			S.	

PROPOSED	SHALLOW UTILITIES	EXISTING	PROPOS
c	CABLE	c	Ø
FO	FIBRE OPTIC	——— F 0 ———	×
G	GAS	G	<b></b>
	GAS ABANDONED	G	x
он	OVERHEAD POWER	ОН	<u>W 150</u>
T	TELEPHONE	т	— <i>————,</i>
UG	UNDERGROUND POWER	U G	
PROPOSED	FITTINGS	EXISTING	PROPOS
11	BELLXBELL ADAPTER	п	
۲HC	BELLXFLANGE ADAPTER	IHC	×
	COUPLER	-	-+0
Ð	CROSS	Ŧ	,
<b>L</b>	ELBOW 90°	<u>۲</u>	Δ
1	ELBOW 45°	1	<b>-</b>
×	LOT SERVICE	×	۱∱I
0	MANHOLE	•	
C	PLUG	C	<u> </u>
Δ	REDUCER	-	ST 200
н	TEE	н	ST 200
D	VAULT		T <u>D10</u> 0

PROPOSED	WATERWORKS	
M	BUTTERFLY VALVE	
×	GATE VALVE	
<b></b>	HYDRANT	
x	CURB STOP	
<u> </u>	WATER MAIN	_
<i></i>	WATER MAIN ABANDONED	_
PROPOSED	SEWERS	
	CATCH BASIN	
→≺	CULVERT	
	INLET STRUCTURE	
	LANDSCAPE CATCH BASIN	
<b>→</b>	OUTFALL STRUCTURE	
⊽1 s_200	SANITARY	
	SANITARY ABANDONED	
ST_200	STORM	
ST 200	STORM ABANDONED	
T <u>D_100</u>	TILE DRAIN	



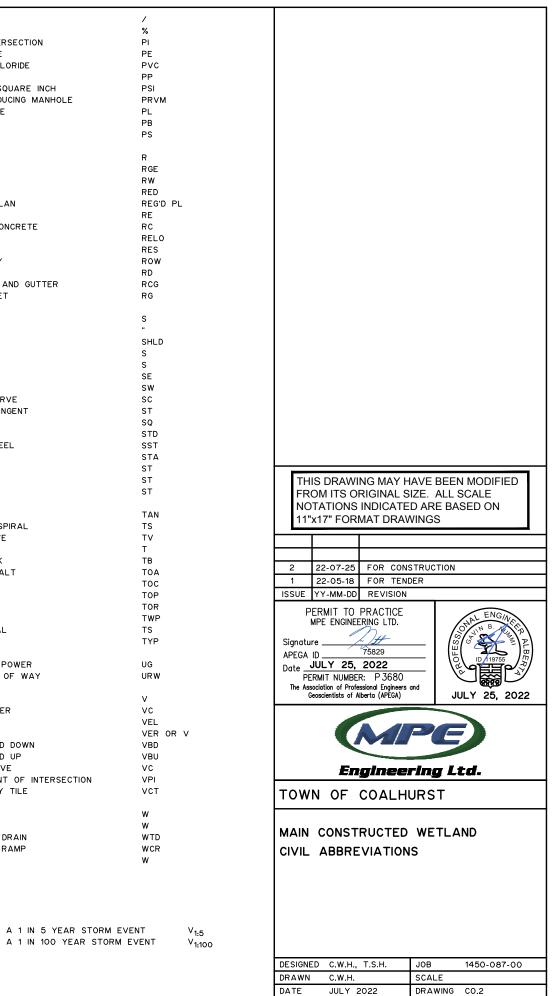
ABANDONED	AB
ACRE	AC
AIR RELEASE MANHOLE	AR
ALBERTA SURVEY CONTROL MONUMENT	ASCM
ASBESTOS CEMENT	AC
ASPHALTIC CONCRETE PAVEMENT	ACP
AT	100
AVENUE	AVE
BACK OF WALK	BOW
BEDDING	BED
BEGINNING OF CURVE	BC
BEGINNING OF VERTICAL CURVE	BVC
BENCH MARK	BM
BLOCK	BLK
BOTTOM	BTM
BOTTOM OF PIPE	BOP
BOUNDARY	BDY
BOULEVARD	BLVD
BUILDING	BLDG
CABLE	C
Canadian National Railway	CNR
Canadian Pacific Railway	CPR
CANADIAN STANDARDS ASSOCIATION	CSA
CAPACITY	CAP
CAST IRON	CI
CATCH BASIN	CB
CATHODIC PROTECTION	CP
CENTRE LINE	CL
CERTIFICATE OF TITLE	C OF T
CHAIN LINK FENCE	CLF
CHECK VALVE IN MANHOLE	CVM
CLASS	CL
CLEAN OUT	CO
COMMUNITY RESERVE	COMM RES
COMPLETE WITH	C/W
CONCRETE CONDUIT CORRUGATED METAL PIPE CORRUGATED STEEL PIPE	CONC COND CMP
COUPLING	CSP
COUPLING	CPLG
CREEK	CRK
CRESCENT	CRES
CROSSFALL	X-FALL
CROSS SECTION	X-SEC
CUBIC METRE PER SECOND	m <sup>3</sup> /s
CULVERT	CULV
CURB AND GUTTER	C&G
CURED IN PLACE PIPE	CIPP
CURVE TO SPIRAL	CS
DEGREE	•
DELTA	Δ
DIAMETER	Φ
DIMENSION RATIO	DR
DRAWING	DWG
DRIVEWAY	DWY
DUCTILE IRON	DI
DWELLING	DWLG
EAST	E
EDGE OF GRAVEL	EOG
EDGE OF PAVEMENT	EOP
EDGE OF ROAD	EOR
ELECTRICAL TRANSFORMER	ET
ELEVATION	ELEV
ENCASEMENT END OF CURVE END OF VERTICAL CURVE ENGINEER ENVIRONMENTAL RESERVE EXTERIOR DROP	ENC EC EVC ENG ER
EXISTING GROUND	EXT DROP EG

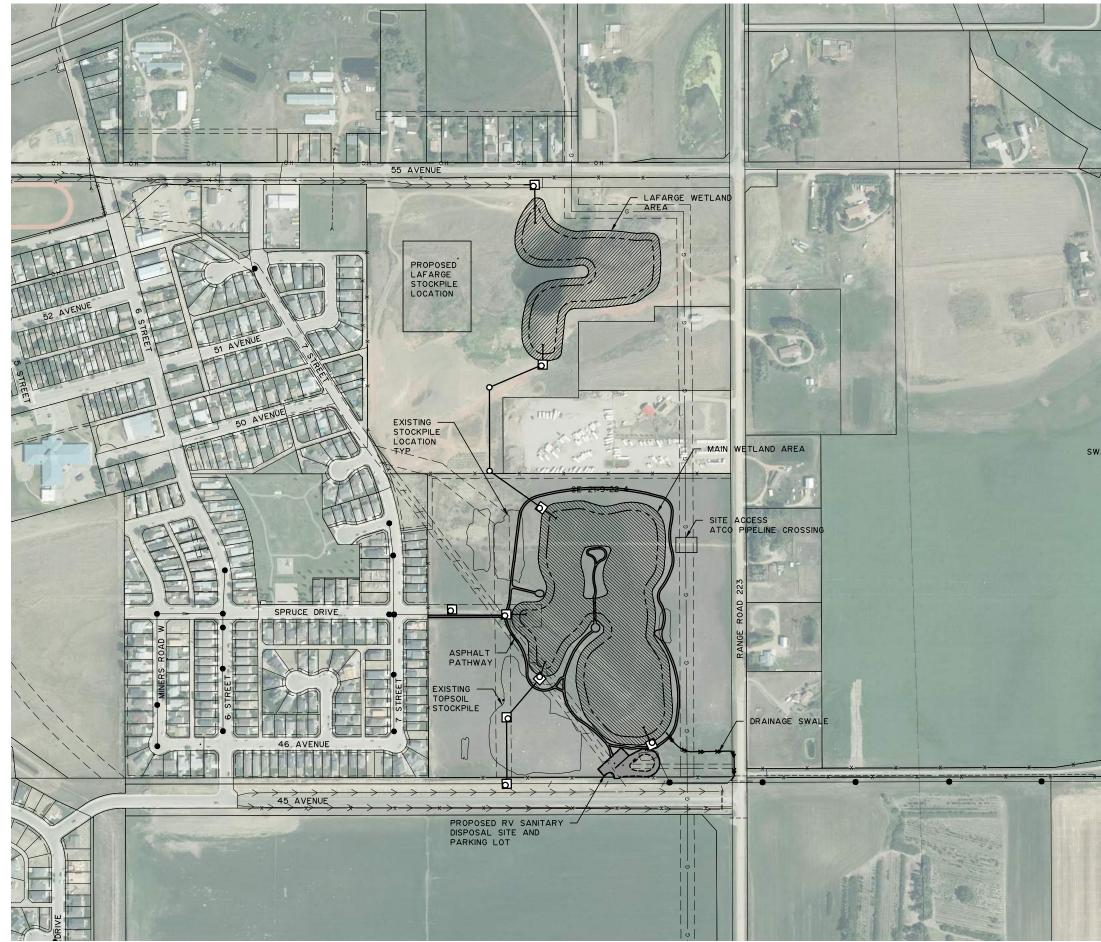
OVERLAND STORM WATER FLOW FORMULA ABBREVIATIONS D<sub>1:5</sub> DEPTH OF FLOW IN 1 IN 5 YEAR STORM EVENT DEPTH OF FLOW IN 1 IN 100 YEAR STORM EVENT D1:100

	500
FACE OF CURB	FOC
FACE OF WALK	FOW
FIBRE OPTIC	FO
FINISHED GRADE	FG
FINISHED LANDSCAPE GRADE	FLG
	. = -
FLANGE	FLG
FLAPPER GATE	FP
FLOOD PLAIN	FLD PLN
FLOOD WAY	FLD WY
FLOOR	FLR
FLOW RATE	Q
FOOTING	FTG
FORCE MAIN	FM
0.01.1/0.11750	0.01.17
GALVANIZED	GALV
GALVANIZED IRON	GI
GAS	G
HECTARE	ha
	ha
HEIGHT	Н
HIGH DENSITY POLYETHYLENE	HDPE
SANITITE HIGH PRESSURE	HP
HIGHWAY	HWY
HORIZONTAL	HOR OR H
HOSPITAL	HOSP
HYDRANT	НҮД
INLET CHAMBER	IC
INLET CONTROL DEVICE	ICD
INLET/OUTLET STRUCTURE (DRY POND)	1/0
INSIDE DIAMETER	ID
INTERSECTION	INT
INVERT	INV
IRON PIN	IP
KILOGRAM	kg
KILOMETRES	km
KILOMETRES PER HOUR	km/h
RATE OF CURVATURE	к
LANDSCAPE CATCH BASIN	LSCB
LENGTH	L
LENGTH OF CURVE	LC
LENGTH OF VERTICAL CURVE	LVC
LIFT STATION	LS
LIP OF GUTTER	LG
LIP OF GUTTER RADIUS	LGR
	IR
LONG RADIUS	LR
LONG TANGENT	LT
LONG TANGENT	LT
LONG TANGENT LOW POINT	LT LP
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER	LT LP LPC&G
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE	LT LP LPC8G MH
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN	LT LP LPC&G MH MHCB
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM	LT LP LPC&G MH MHCB MAX
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN	LT LP LPC&G MH MHCB
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM	LT LP LPC&G MH MHCB MAX MED
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE	LT LP LPC&G MH MHCB MAX MED m
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND	LT LP LPC&G MH MHCB MAX MED m m/s
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER	LT LP LPC&G MH MHCB MAX MED m
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND	LT LP LPC&G MH MHCB MAX MED m m/s
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE	LT LP LPC&G MH MHCB MAX MED m m/s MC
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI)	LT LP LPC&G MH MHCB MAX MED m m/s MC M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE	LT LP LPC&G MH MHCB MAX MED m m/s MC M mm
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE	LT LP LPC&G MH MHCB MAX MED m m/s MC M mm
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK	LT LP LPC&G MH MHCB MAX MED m m/s MC M M MMN , MONO
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M M M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE	LT LP LPCAG MH MHCB MAX MED m m/s MC M M M MM MM MM MM MM MM MM MM MM MM
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH	LT LP LPCAG MH MHCB MAX MED m m/s MC M M M M M M M M M M M N N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE	LT LP LPCAG MH MHCB MAX MED m m/s MC M M M MM MM MM MM MM MM MM MM MM MM
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST	LT LP LPCAG MH MHCB MAX MED m m/s MC M M M M M M M M M M M N N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M M M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M N N R N N N N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M M M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M N N R N N N N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE	LT LP LPC&G MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M N N R N N N N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE NUMBER ON CENTRE	LT LP LPCAG MH MHCB MAX MED m m/s MC M M M M M M M M M M M N M N N N N N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE NUMBER ON CENTRE OUTLET CHAMBER	LT LP LPCBG MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M N M N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE NUMBER ON CENTRE OUTLET CHAMBER OUTSIDE DIAMETER	LT LP LPCBG MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M M M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE NUMBER ON CENTRE OUTLET CHAMBER	LT LP LPCBG MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M N M N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH WEST NOT TO SCALE NUMBER ON CENTRE OUTLET CHAMBER OUTSIDE DIAMETER	LT LP LPCBG MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M M M
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH WEST NORTH WEST NORTH WEST NORTH VEST NORTH O SCALE NUMBER ON CENTRE OUTLET CHAMBER OVERHEAD POWER	LT LP LPCAG MH MHCB MAX MED m m/s MC M M M M M M M M M M M M M M M M N N N N N N N N N N N N N N O C O C O D O H
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METRE CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH EAST NORTH EAST NORTH WEST NOT TO SCALE NUMBER ON CENTRE OUTLET CHAMBER OUTLET CHAMBER OUTLET CHAMBER OUTLET CHAMBER OUTLET CHAMBER OUTLET CHAMBER OUTLET CHAMBER OVERHEAD POWER	LT LP LPCaG MH MHCB MAX MED m m/s MC M M M MONO MR N N N N N N N N N N N N N
LONG TANGENT LOW POINT LOW PROFILE CURB AND GUTTER MANHOLE MANHOLE CATCH BASIN MAXIMUM MEDIAN METRE METRES PER SECOND METER CHAMBER MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI) MILLIMETRE MINIMUM MINUTES MONOLITHIC SIDEWALK MUNICIPAL RESERVE NORTH NORTH WEST NORTH WEST NORTH WEST NORTH VEST NORTH O SCALE NUMBER ON CENTRE OUTLET CHAMBER OVERHEAD POWER	LT LP LPCaG MH MHCB MAX MED m m/s MC M M M MONO MR N N N N N N N N N N N N N

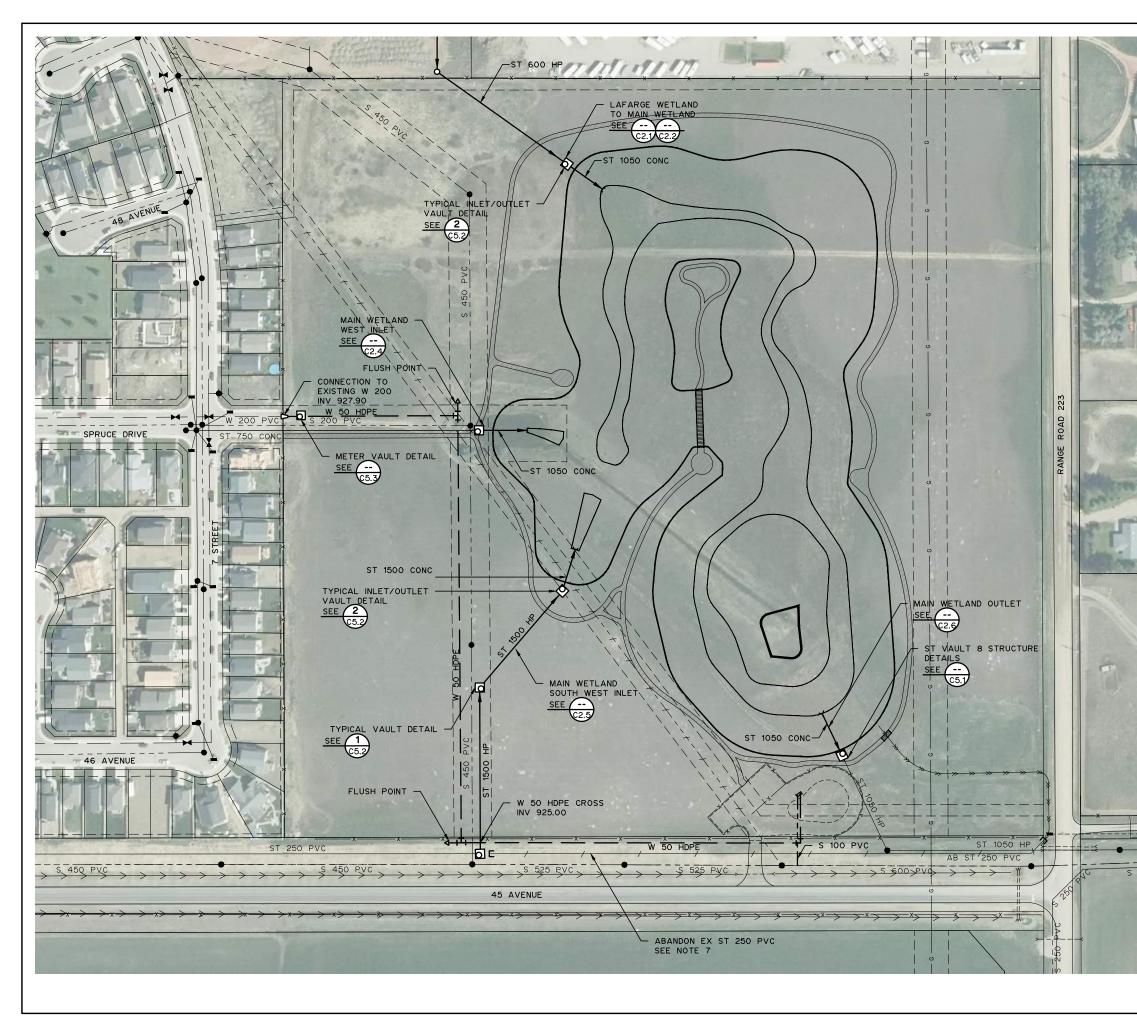
VERTICAL BEND UP	VB
VERTICAL CURVE	vc
VERTICAL POINT OF INTERSECTION	VP
VITRIFIED CLAY TILE	vc
WATER	w
WEST	w
WEEPING TILE DRAIN	w٦
WHEEL CHAIR RAMP	wo
WIDTH	W
VELOCITY FOR A 1 IN 5 YEAR STORM EVE	NT
VELOCITY FOR A 1 IN 100 YEAR STORM E	/EN1

PER PERCENT POINT OF INTERSECTION POLYETHYLENE POLYVINYL CHLORIDE POWER POLE POUNDS PER SQUARE INCH PRESSURE REDUCING MANHOLE PROPERTY LINE PULL BOX PUMP STATION	/ PI PE PV PP PS PR PL PB PS
RADIUS RANGE RAW WATER REDUCER REGISTERED PLAN REINFORCED REINFORCED CONCRETE RELOCATION RESERVOIR RIGHT OF WAY ROAD ROLLED CURB AND GUTTER RUBBER GASKET	R RG RE RE RE RE RE RC RC RC RC RC
SANITARY SECOND SHOULDER SLOPE SOUTH SOUTH EAST SOUTH WEST SPIRAL TO CURVE SPIRAL TO CURVE SPIRAL TO TANGENT SQUARED STANDARD STAINLESS STEEL STATION STEEL STREET STORM	S SH S SE ST ST ST ST ST ST ST
TANGENT TANGENT TO SPIRAL TAPPING VALVE TELEPHONE THRUST BLOCK TOP OF ASPHALT TOP OF CURB TOP OF PIPE TOP OF RAIL TOWNSHIP TRAFFIC SIGNAL TYPICAL	TA TS TV T TB TO TO TO TO TO TW TS TY
UNDERGROUND POWER UTILITY RIGHT OF WAY	UG UR
VALVE VALVE CHAMBER VELOCITY VERTICAL VERTICAL BEND DOWN VERTICAL BEND UP VERTICAL BEND UP VERTICAL CURVE VERTICAL POINT OF INTERSECTION VITRIFIED CLAY TILE	V VE VB VB VC VP VC
WATER WEST WEEPING TILE DRAIN WHEEL CHAIR RAMP WIDTH	W W WT WC W





NOTES: 1. FOR INFORMATION REGARDING GENERAL NOT	
UTILITIES, SYMBOLS AND ABBREVIATIONS RE THE LEGEND AND ABBREVIATIONS DRAWINGS LAFARGE WETLAND AREA 1:100 YEAR STORAGE 37,300m MAIN WETLAND AREA 1:100 YEAR STORAGE 87,300m	EFER TO 5. m <sup>3</sup>
<ol> <li>CONFIRM EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. NOTI OWNER'S REPRESENTATIVE OF ANY CONFLIC</li> <li>APPROXIMATE LOCATIONS OF EXISTING STO SHOWN. CONTRACTOR TO UTILIZE STOCKPILI TOPSOIL AS REQUIRED. CONTRACTOR TO MO WASTE EXCAVATION STOCKPILES AS REQUIN COMPLETE THE WORK.</li> <li>CONTRACTOR TO COORDINATE AND PROVIDE ACCESS REQUIRED BY OTHERS FOR REMOVA STOCKPILED WASTE EXCAVATION MATERIAL SITE THROUGHOUT CONSTRUCTION.</li> <li>CONTRACTOR RESPONSIBLE FOR STRIPPING STOCKPILING TOPSOIL AT MATERIAL STOCKI LOCATIONS. CONTRACTOR TO REPLACE TOP AND SEED.</li> <li>CONTRACTOR REQUIRED TO STOCKPILE EXC. MATERIALS MEETING CLASSIFICATION OF DIF ZONES IN SEPARATE STOCKPILES. PARTICUL MATERIAL SUITABLE FOR CLAY LINER SHAL STOCKPILED SEPARATELY. COORDINATE WITH OWNER'S REPRESENTATIVE.</li> </ol>	CTS. CKPILES ED ODIFY RED TO AL OF S FROM AND PILE PSOIL AVATED FFERENT _ARLY _L BE
W22 9-22-4 THIS DRAWING MAY HAVE BEEN MODIF FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION	
PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature APEGA ID 75829 Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) ULY 25,	ALBERTY ALBERTY
Engineering Ltd.	
CONTRACTOR OF CONTRACTOR	
TOWN OF COALHURST MAIN CONSTRUCTED WETLAND OVERALL SITE PLAN	

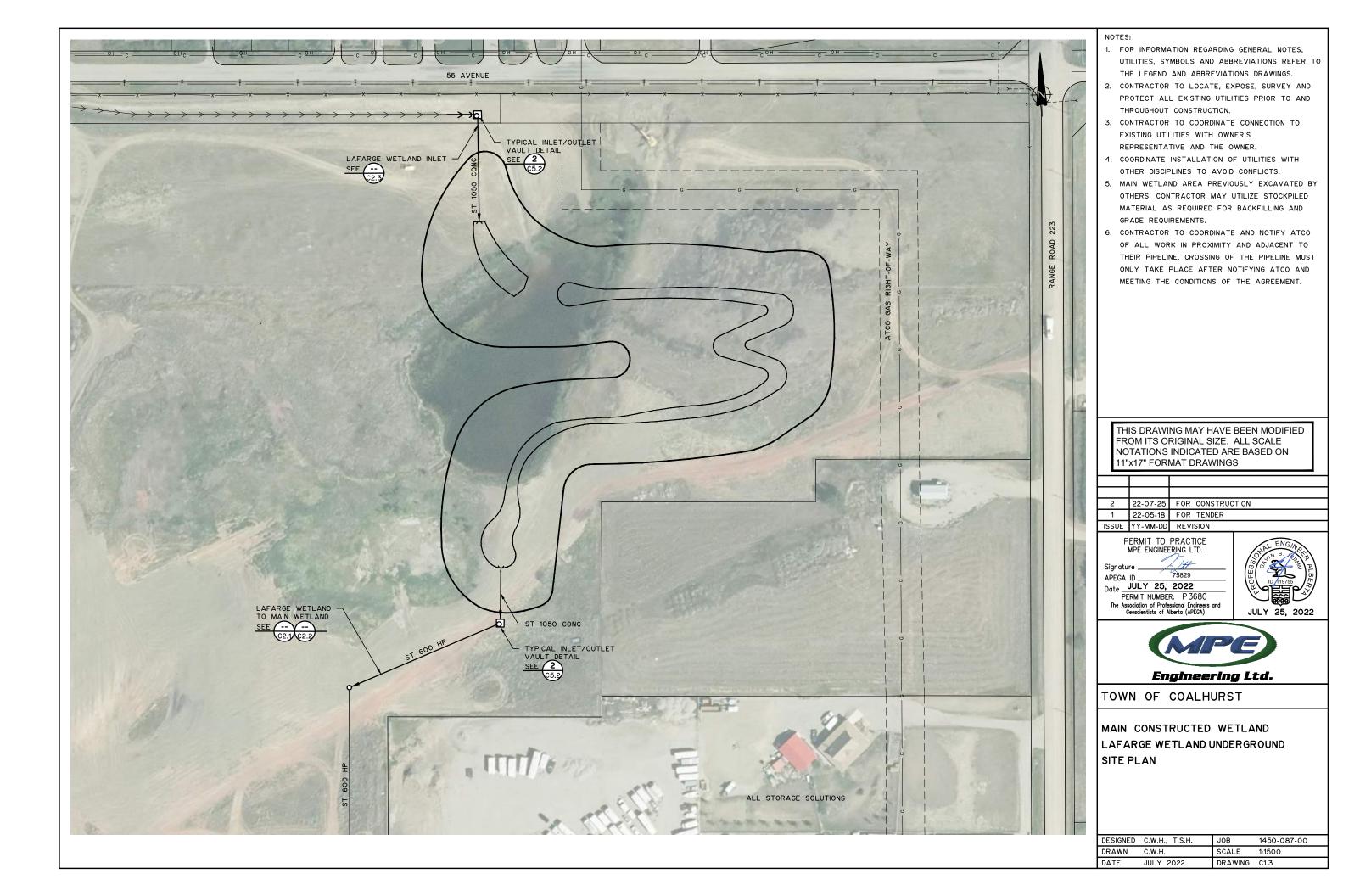


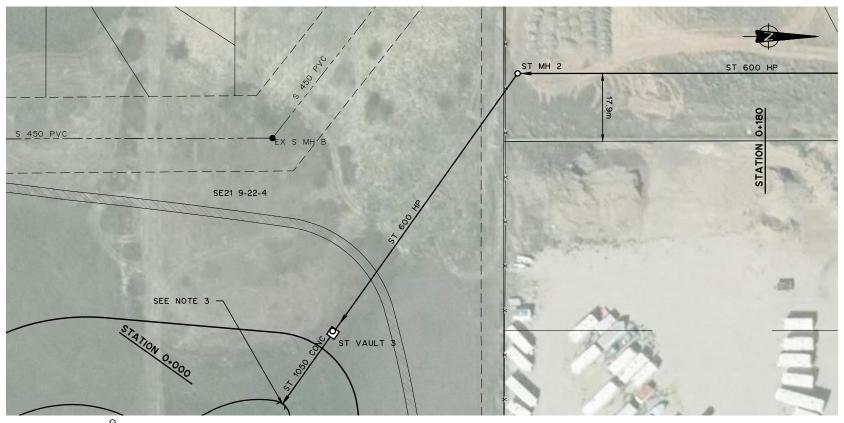


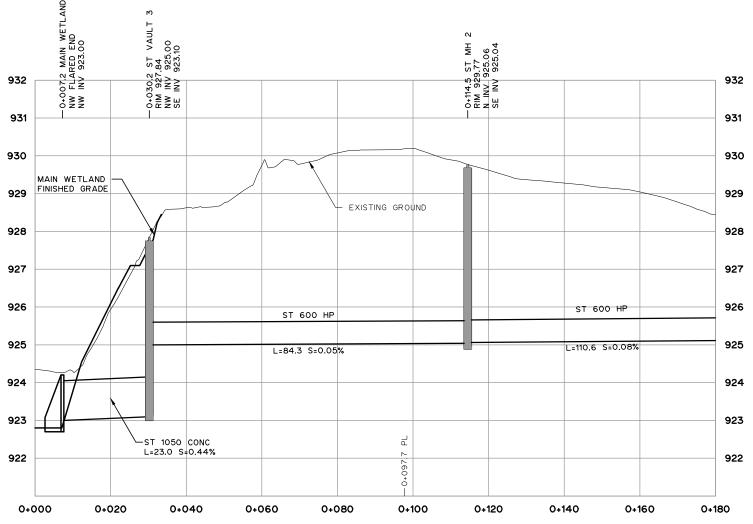
DATE

JULY 2022

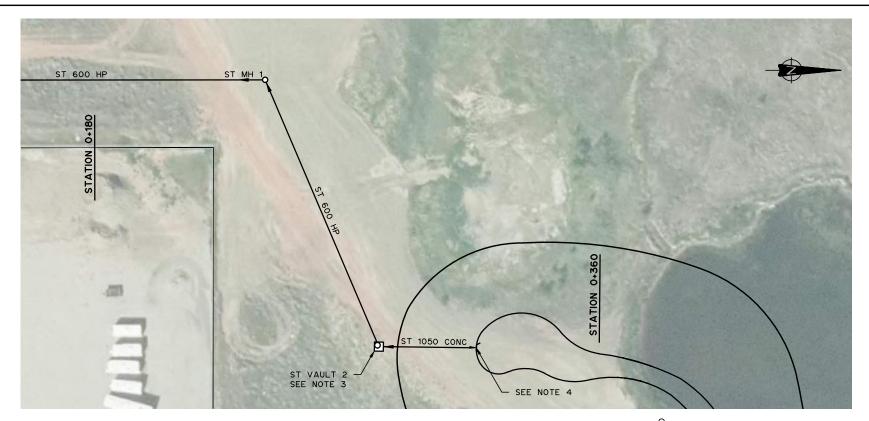
DRAWING C1.2

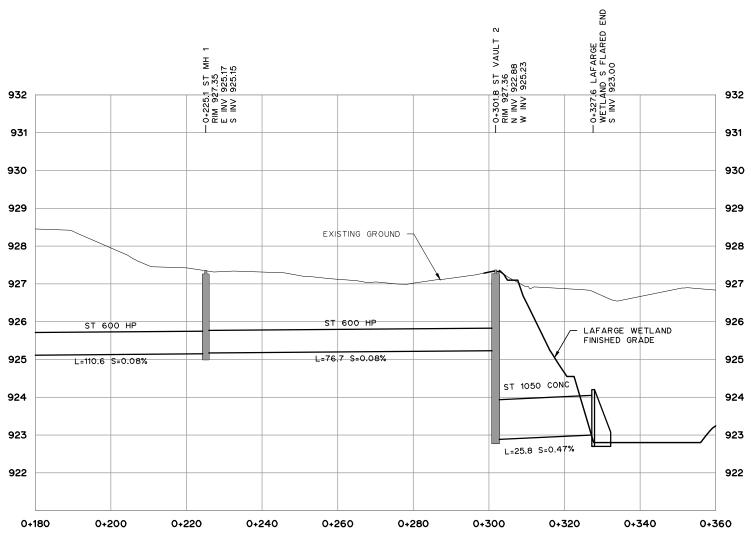




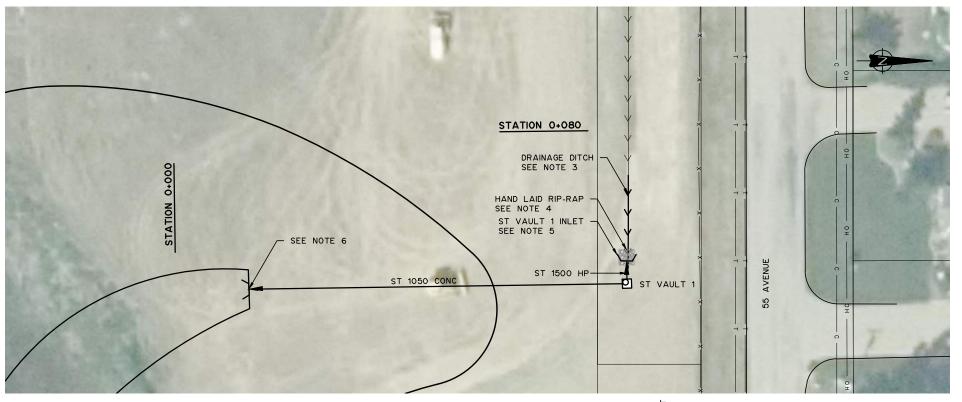


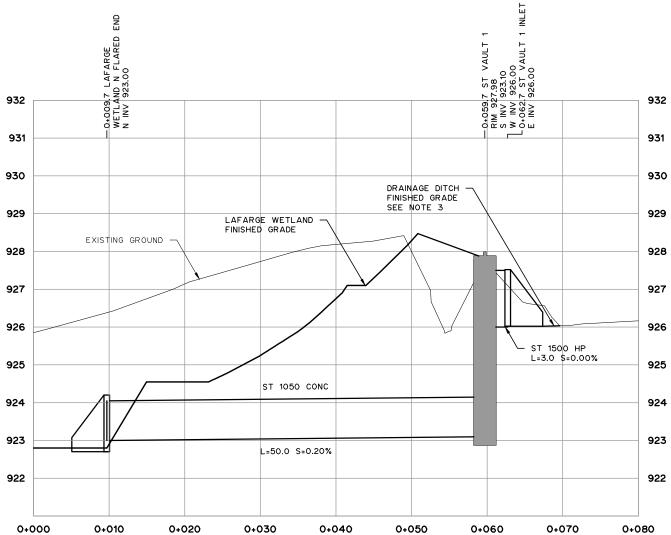
NOTES: 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS. 2. CONFIRM ALL UTILITY CROSSINGS AND EXISTING INVERTS PRIOR TO CONSTRUCTION. 3. ALL SUBMERGED POND INLETS AND OUTLETS TO BE INSTALLED COMPLETE WITH PRECAST FLARED END TREATMENT. SEE DRAWING C5.7 FOR DETAIL. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. // 14 Signature \_\_\_\_\_ 75829 APEGA ID \_ Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND UNDERGROUND PLAN PROFILE LAFARGE WETLAND TO MAIN WETLAND STATION 0+000 TO STATION 0+180 DESIGNED C.W.H., T.S.H. JOB 1450-087-00 DRAWN C.W.H. SCALE H:1:1000 V:1:100 DATE JULY 2022 DRAWING C2.1



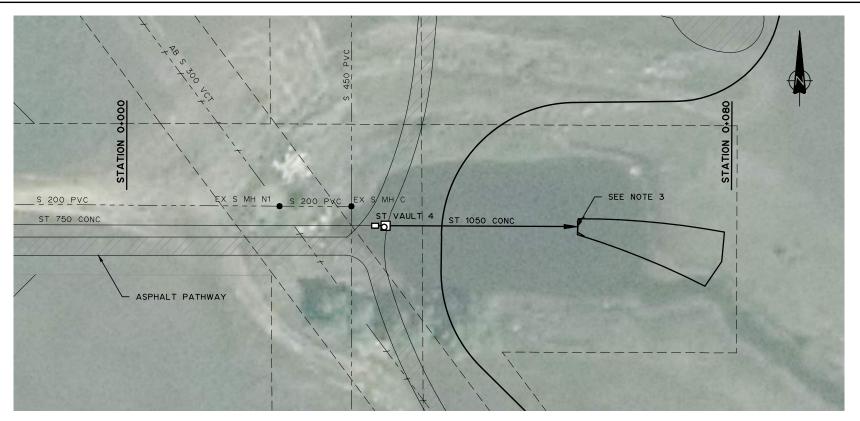


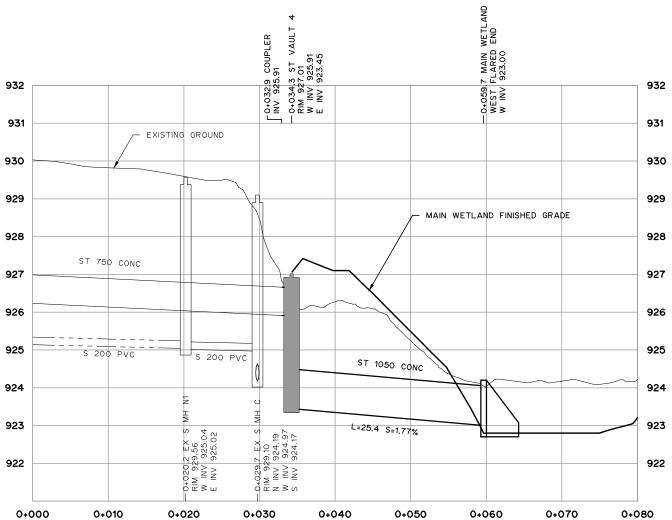
THE LEGEND AND ABBRE 2. CONFIRM ALL UTILITY C INVERTS PRIOR TO CON 3. ST VAULT 2 TO HAVE STAINLESS STEEL SLIDE HARDWARE AND OPERA TO THE WEST INSIDE F/ 4. ALL SUBMERGED POND I BE INSTALLED COMPLET	ABBREVIATIONS REFER TO EVIATIONS DRAWINGS. ROSSINGS AND EXISTING STRUCTION. A 700x700 ORBINOX MU GATE C/W ALL MOUNTING FING COMPONENTS MOUNTED
THIS DRAWING MAY H FROM ITS ORIGINAL S NOTATIONS INDICATE 11"x17" FORMAT DRAV	IZE. ALL SCALE D ARE BASED ON
2 22-07-25 FOR CONS 1 22-05-18 FOR TEND	
ISSUE YY-MM-DD REVISION	
PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature	and JULY 25, 2022
Engineer	PE Ing Ltd.
TOWN OF COALH	
	<del>.</del> ,
MAIN CONSTRUCTED UNDERGROUND PLAN LAFARGE WETLAND STATION 0+180 TO	PROFILE TO MAIN WETLAND
DESIGNED C.W.H., T.S.H.	JOB 1450-087-00
DRAWN C.W.H.	SCALE H:1:1000 V:1:100
DATE JULY 2022	DRAWING C2.2



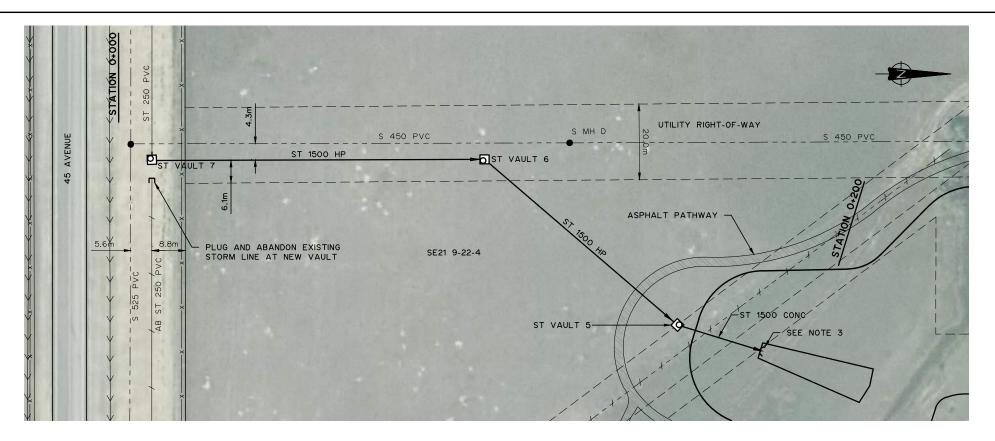


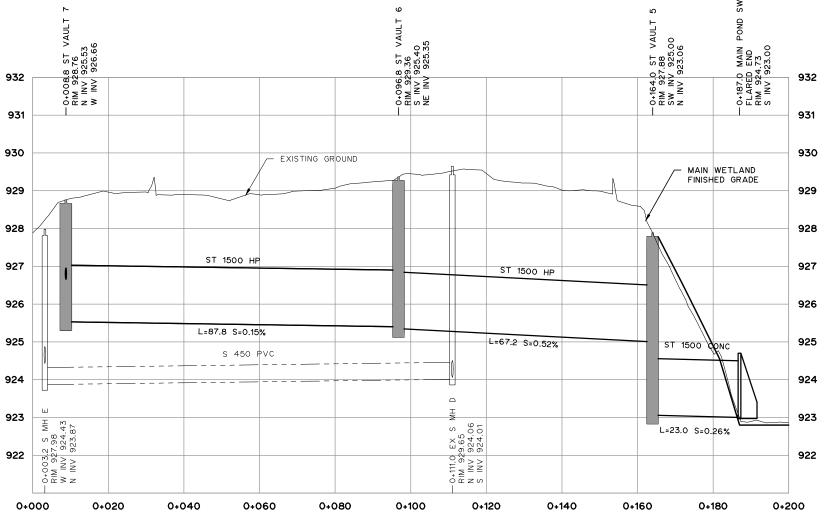




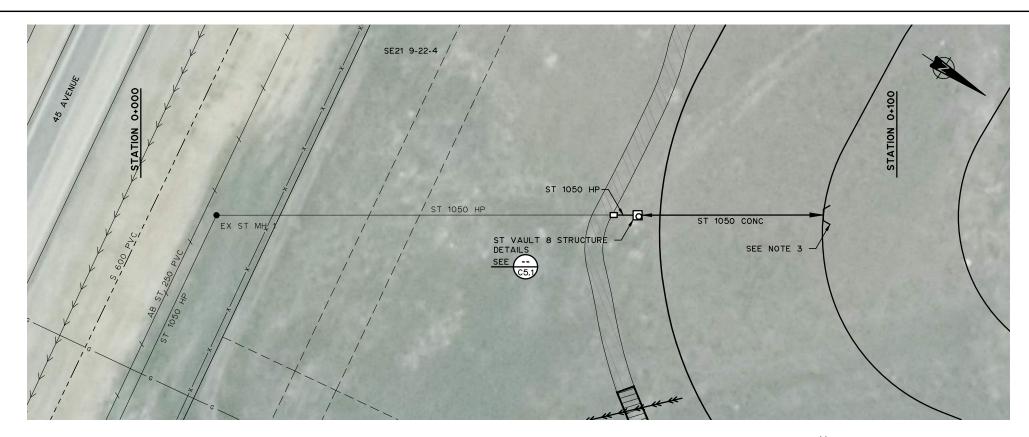


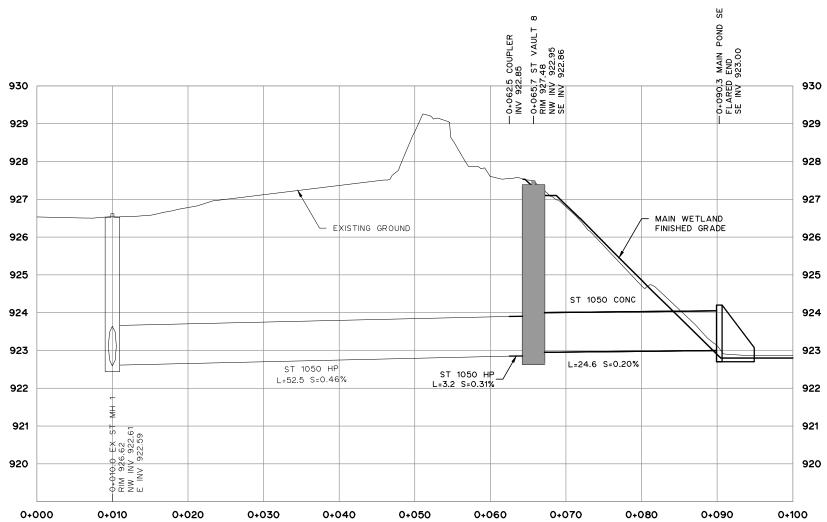
NOTES: 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS. 2. CONFIRM ALL UTILITY CROSSINGS AND EXISTING INVERTS PRIOR TO CONSTRUCTION. 3. ALL SUBMERGED POND INLETS AND OUTLETS TO BE INSTALLED COMPLETE WITH PRECAST FLARED END TREATMENT. SEE DRAWING C5.7 FOR DETAIL. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. /\_)<u>#</u> Signature \_\_\_\_\_ 75829 APEGA ID \_ Date JULY 25, 2022 1 E PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND UNDERGROUND PLAN PROFILE MAIN WETLAND WEST INLET DESIGNED C.W.H., T.S.H. JOB 1450-087-00 DRAWN C.W.H. SCALE H:1:500 V:1:100 DATE JULY 2022 DRAWING C2.4



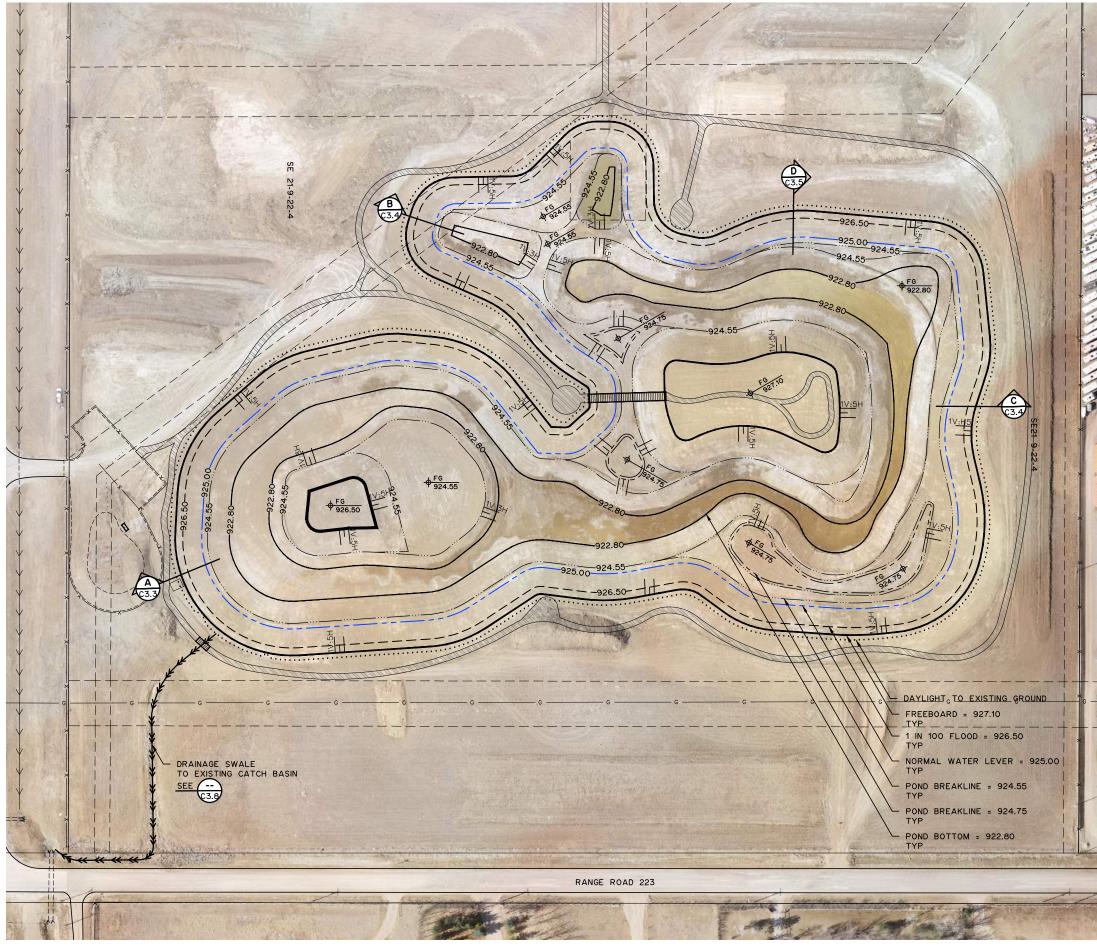


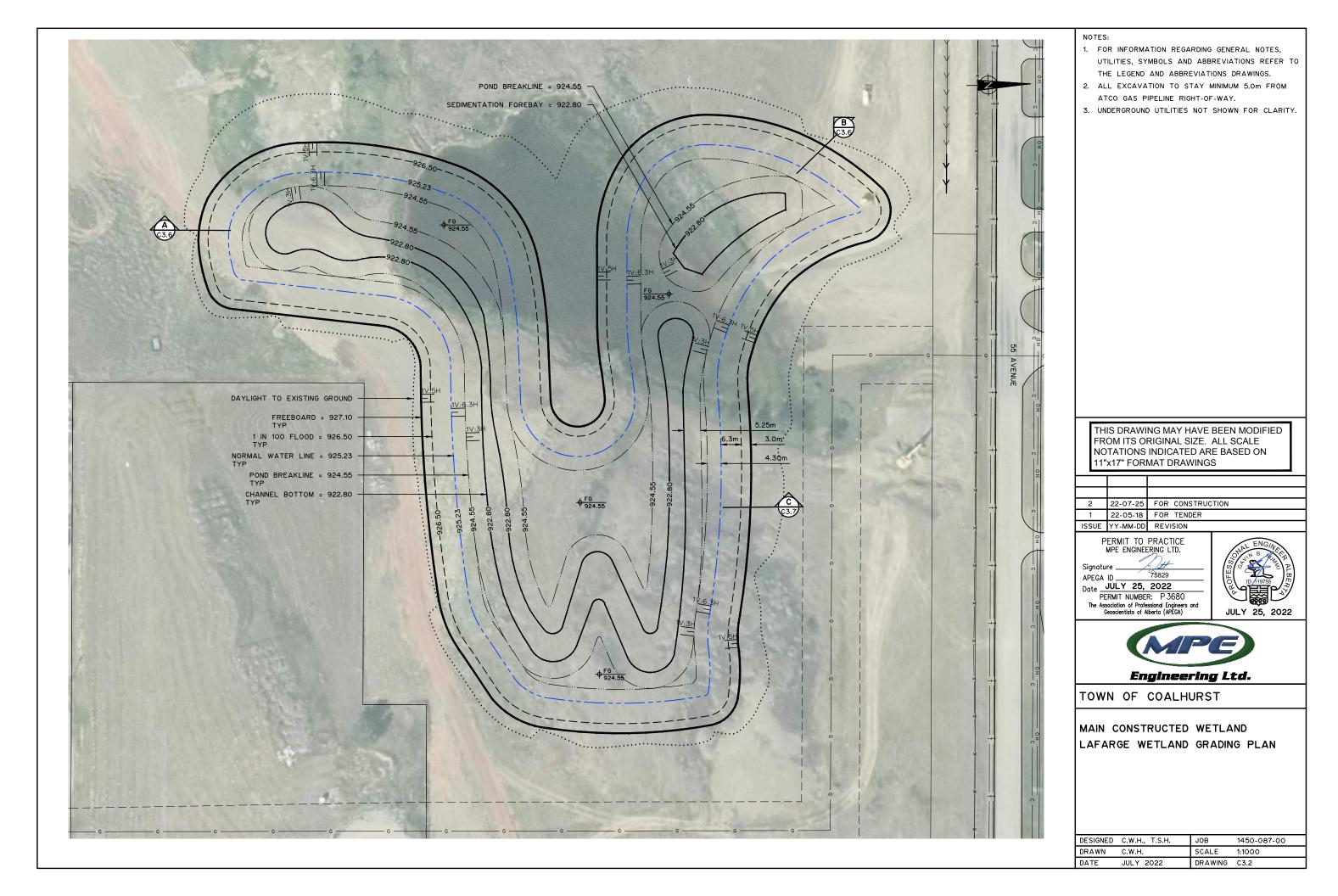
NOTES: 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS. 2. CONFIRM ALL UTILITY CROSSINGS AND EXISTING INVERTS PRIOR TO CONSTRUCTION. 3. ALL SUBMERGED POND INLETS AND OUTLETS TO BE INSTALLED COMPLETE WITH PRECAST FLARED END TREATMENT. SEE DRAWING C5.7 FOR DETAIL. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. 14 Signature \_\_\_\_\_ 75829 APEGA ID \_ Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND UNDERGROUND PLAN PROFILE MAIN WETLAND SOUTH WEST INLET DESIGNED C.W.H., T.S.H. 1450-087-00 JOB DRAWN C.W.H. SCALE H:1:1000 V:1:100 DATE JULY 2022 DRAWING C2.5

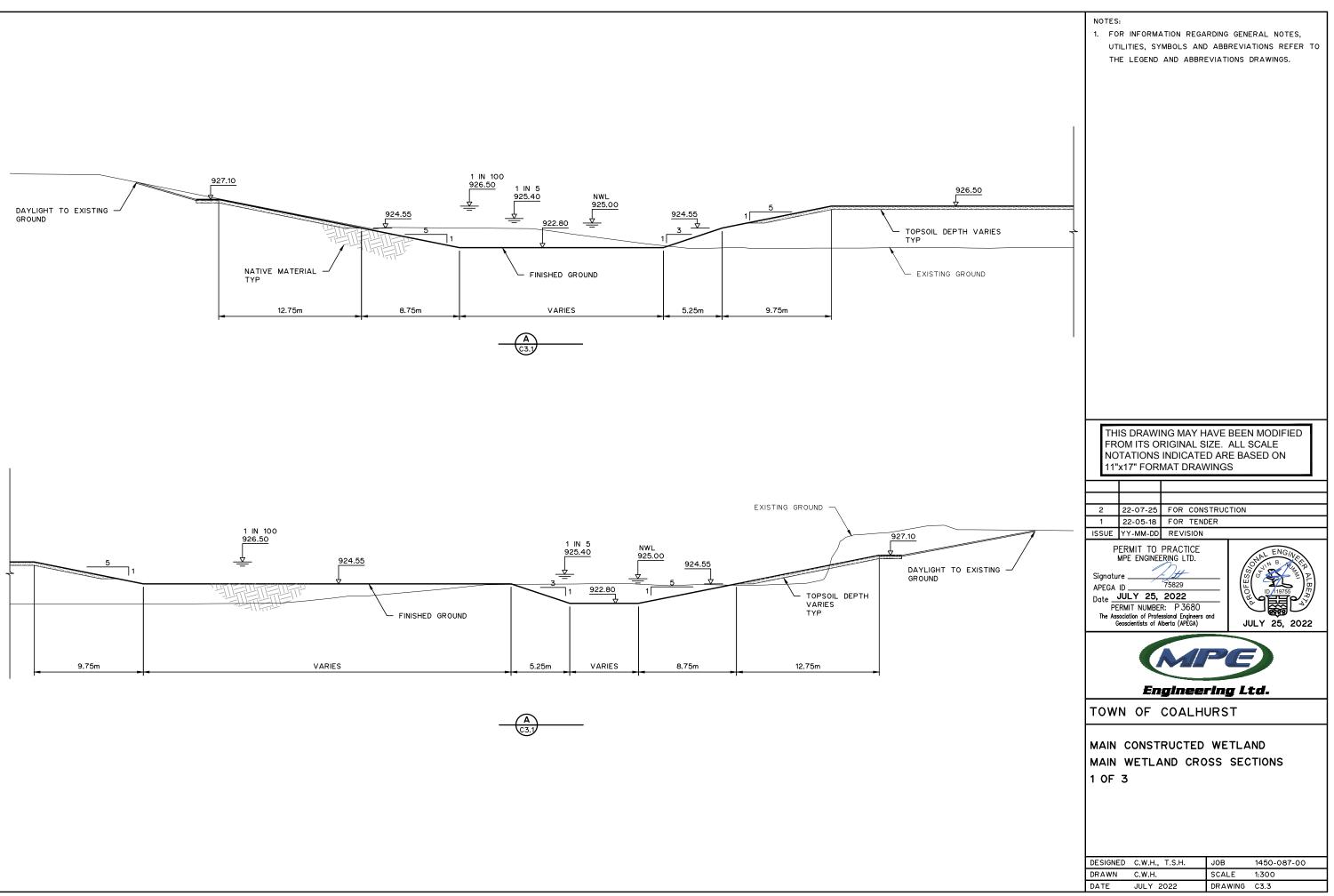


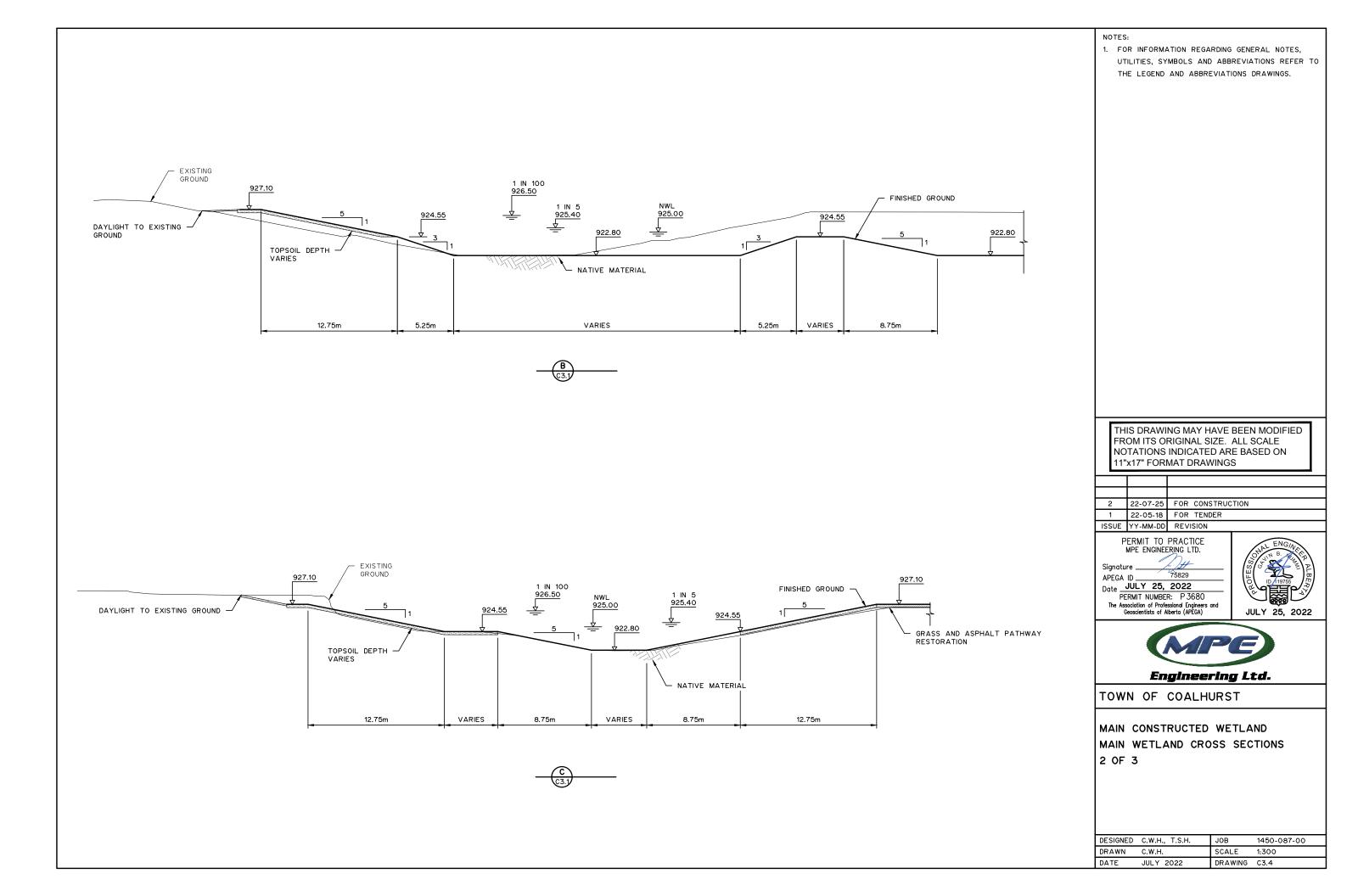


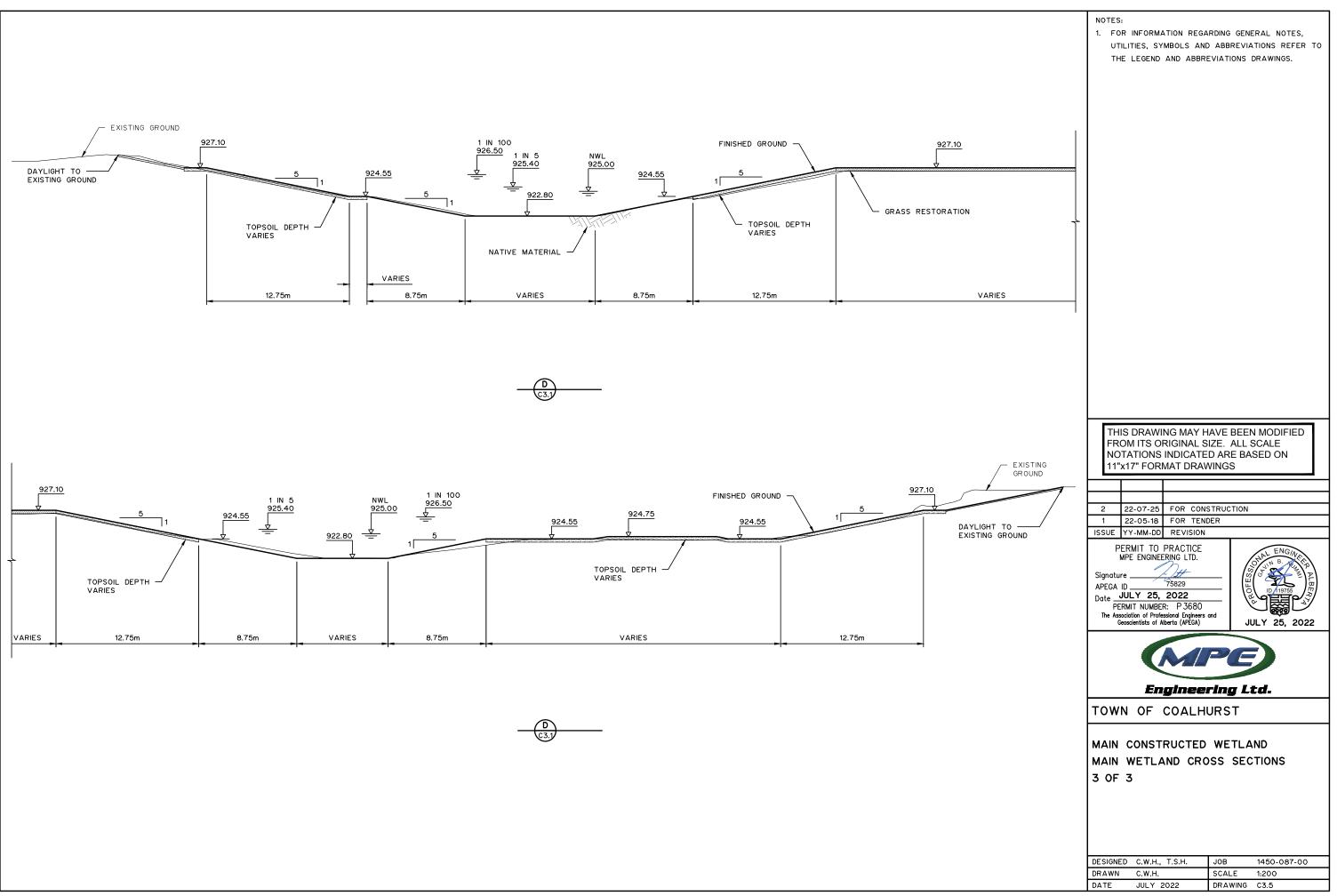
	R INFORMATION		
	ILITIES, SYMBOLS		
	E LEGEND AND AND AND AND AND AND AND AND AND A		
	VERTS PRIOR TO		
	L SUBMERGED P		
BE	INSTALLED CON	PLETE WITH PR	RECAST FLARE
EN	ID TREATMENT. S	EE DRAWING C	5.7 FOR DETAI
	IS DRAWING M		
	OM ITS ORIGIN		
1/11	TATIONS INDIC		
	TATIONS INDIC x17" FORMAT [	ATED ARE BA	
		ATED ARE BA	
		ATED ARE BA	
2	22-07-25 FOR	CATED ARE BADRAWINGS	
11" 2 1	x17" FORMAT [ 22-07-25 FOR 22-05-18 FOR	CATED ARE BA DRAWINGS	
2 1 ISSUE	22-07-25 FOR 22-05-18 FOR YY-MM-DD REV	CATED ARE BA DRAWINGS	SED ON
2 1 ISSUE	x17" FORMAT [ 22-07-25 FOR 22-05-18 FOR	CATED ARE BA DRAWINGS	
2 1 ISSUE P	22-07-25 FOR 22-07-25 FOR 22-05-18 FOR YY-MM-DD REV PERMIT TO PRAC MPE ENGINEERING L TR	CATED ARE BA DRAWINGS	SED ON
2 1 ISSUE P Signatu APFGA	22-07-25 FOR 22-07-25 FOR 22-05-18 FOR YY-MM-DD REV PERMIT TO PRAC MPE ENGINEERING L re D	CONSTRUCTION TENDER SION	SED ON
2 1 ISSUE P Signatu APEGA Date	22-07-25 FOR 22-07-25 FOR 22-05-18 FOR YY-MM-DD REV PERMIT TO PRAC MPE ENGINEERING L re ID 75829 JULY 25, 2022	CONSTRUCTION TENDER SION	SED ON
2 1 ISSUE P Signatu APEGA Date — E The Ass	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 6680 gineers and	SED ON
2 1 ISSUE P Signatu APEGA Date — E The Ass	22-07-25 FOR 22-07-25 FOR 22-05-18 FOR YY-MM-DD REV PERMIT TO PRAC MPE ENGINEERING L re ID 75829 JULY 25, 2022 ERMIT NUMBER: P 3	CONSTRUCTION TENDER SION TICE TD. 6680 gineers and	SED ON
2 1 ISSUE P Signatu APEGA Date The Ass	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 6680 gineers and	SED ON
2 1 ISSUE P Signatu APEGA Date The Ass	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 6680 gineers and	SED ON
2 1 ISSUE P Signatu APEGA Date The Ass	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 6680 gineers and	SED ON
2 1 ISSUE P Signatu APEGA Date The Ass	22-07-25 FOR 22-07-25 FOR 22-05-18 FOR 22-05-18 FOR YY-MM-DD REV PERMIT TO PRAC MPE ENGINEERING L TO PRAC MPE ENGINEERING L 75829 JULY 25, 2022 ERMIT NUMBER: P 3 sociation of Professional En Sociation of Professional En Sociation of Professional En	CONSTRUCTION TENDER SION TICE TD. 6800 gineers and EGA)	ULY 25, 202
2 1 ISSUE PE Signatu APEGA Date PE The Ass	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. G80 gineers and EGA)	ULY 25, 202
2 1 ISSUE PE Signatu APEGA Date PE The Ass	22-07-25 FOR 22-07-25 FOR 22-05-18 FOR 22-05-18 FOR YY-MM-DD REV PERMIT TO PRAC MPE ENGINEERING L TO PRAC MPE ENGINEERING L 75829 JULY 25, 2022 ERMIT NUMBER: P 3 sociation of Professional En Sociation of Professional En Sociation of Professional En	CONSTRUCTION TENDER SION TICE TD. G80 gineers and EGA)	ULY 25, 202
2 1 ISSUE PE Signatu APEGA Date PE The Ass	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. G80 gineers and EGA)	ULY 25, 202
2 1 ISSUE PE Signatu APEGA Date PE The Asc	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. Geering Li LHURST	SED ON
2 1 ISSUE P Signatu APEGA Date - PE The Ass C TOW MAIN	x17" FORMAT E	CATED ARE BA DRAWINGS	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 680 Gineers and EEA) JU CC CC CC CC CC CC CC CC CC CC CC CC CC	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 680 Gineers and EEA) JU CC CC CC CC CC CC CC CC CC CC CC CC CC	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 680 Gineers and EEA) JU CC CC CC CC CC CC CC CC CC CC CC CC CC	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 680 Gineers and EEA) JU CC CC CC CC CC CC CC CC CC CC CC CC CC	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 680 Gineers and EEA) JU CC CC CC CC CC CC CC CC CC CC CC CC CC	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. 680 Gineers and EEA) JU CC CC CC CC CC CC CC CC CC CC CC CC CC	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE MAIN	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. Geners and EGA) JU CONSTRUCTION TENDER SION TICE TD. Geners and EGA JU CONSTRUCTION TED WETLA CONSTRUCTION CONSTRU	SED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE MAIN UNDE MAIN DESIGNE	x17" FORMAT E	CONSTRUCTION TENDER SION TENDER SION TICE TD. 680 gineers and EGA) JU CONSTRUCTION TED CONSTRUCTION TED CONSTRUCTION CONST	ASED ON
2 1 ISSUE P Signatu APEGA Date PE The Ass C TOW MAIN UNDE	x17" FORMAT E	CONSTRUCTION TENDER SION TICE TD. Geners and EGA) JU CONSTRUCTION TENDER SION TICE TD. Geners and EGA JU CONSTRUCTION TED WETLA CONSTRUCTION CONSTRU	SED ON

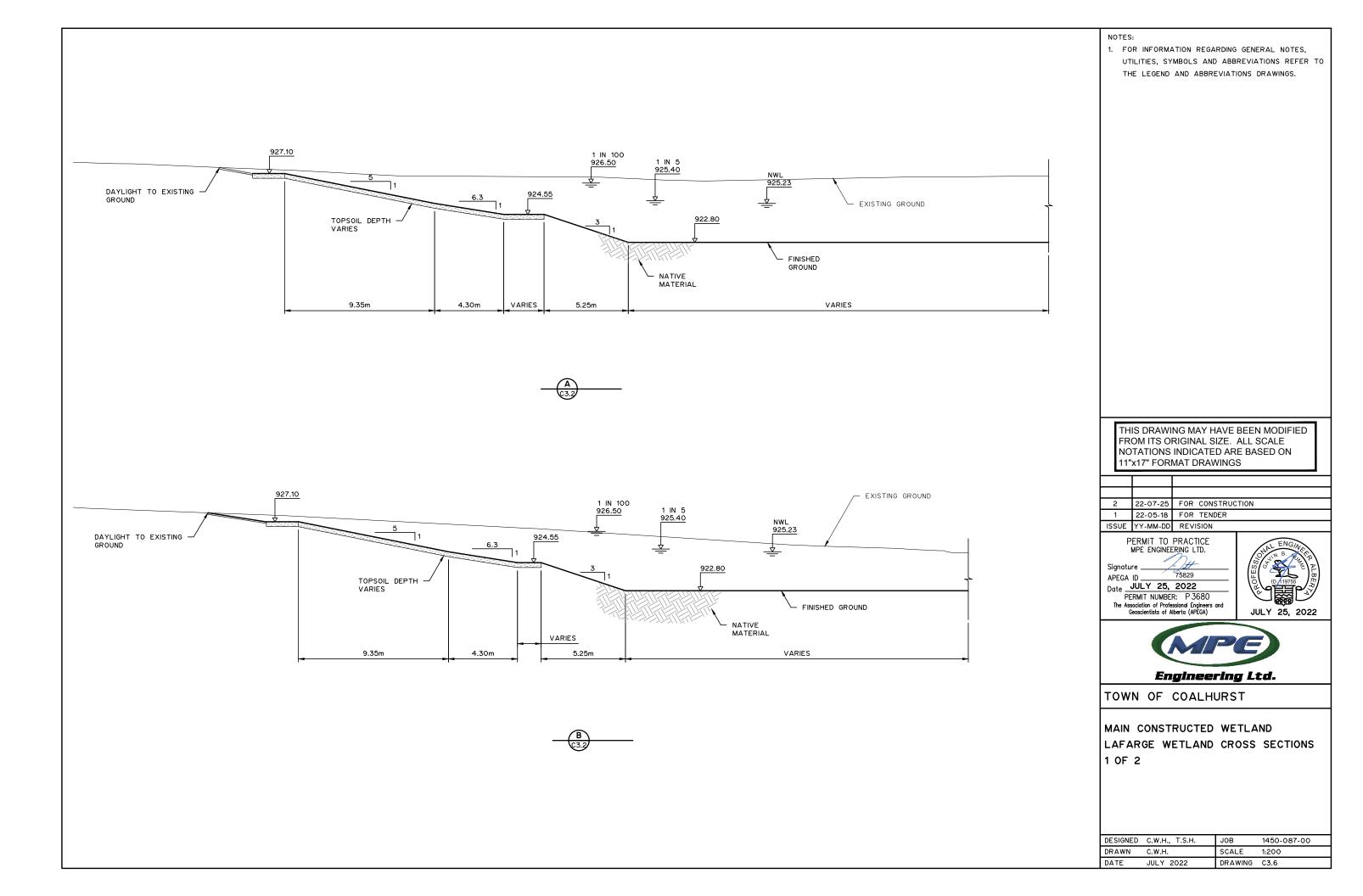


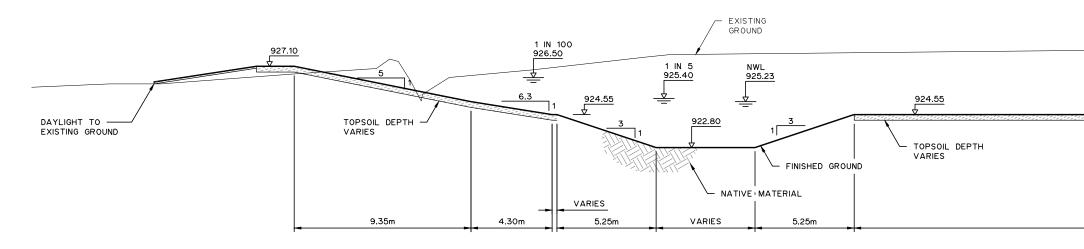




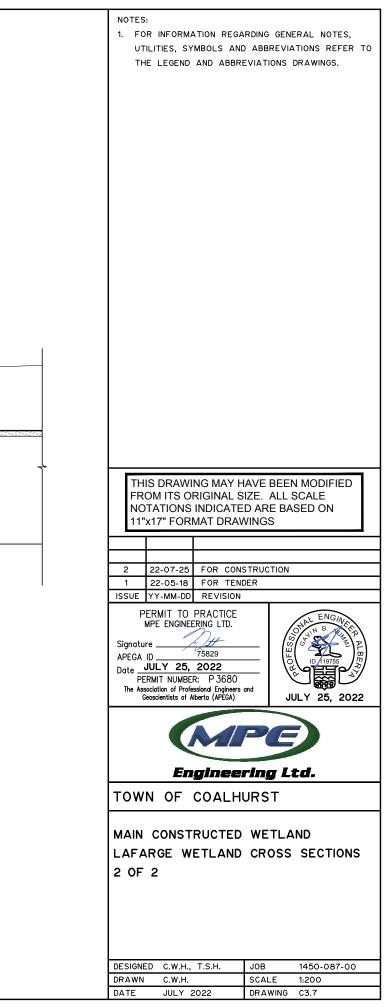


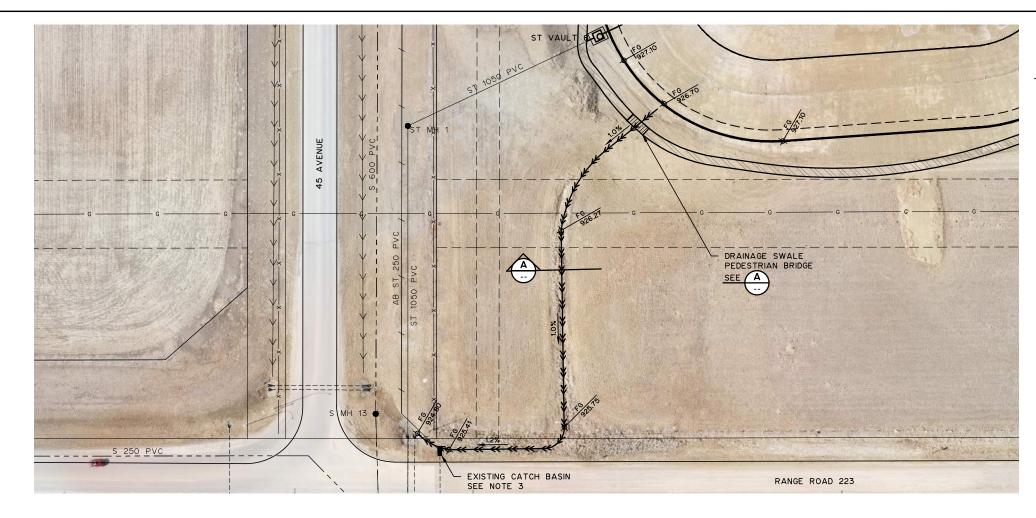


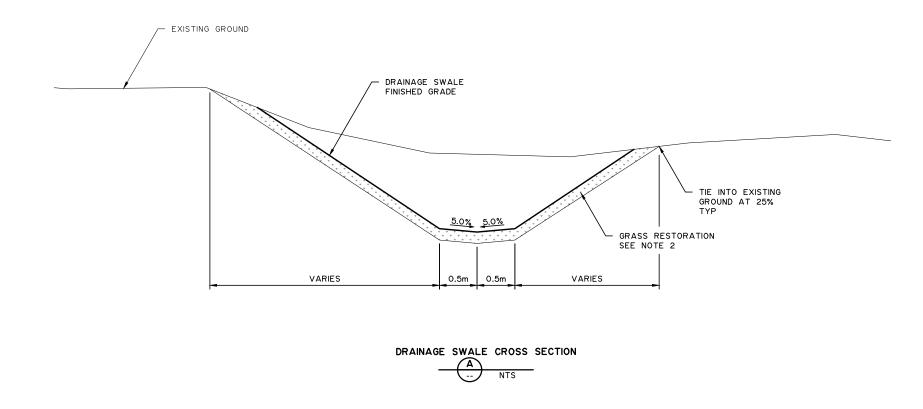




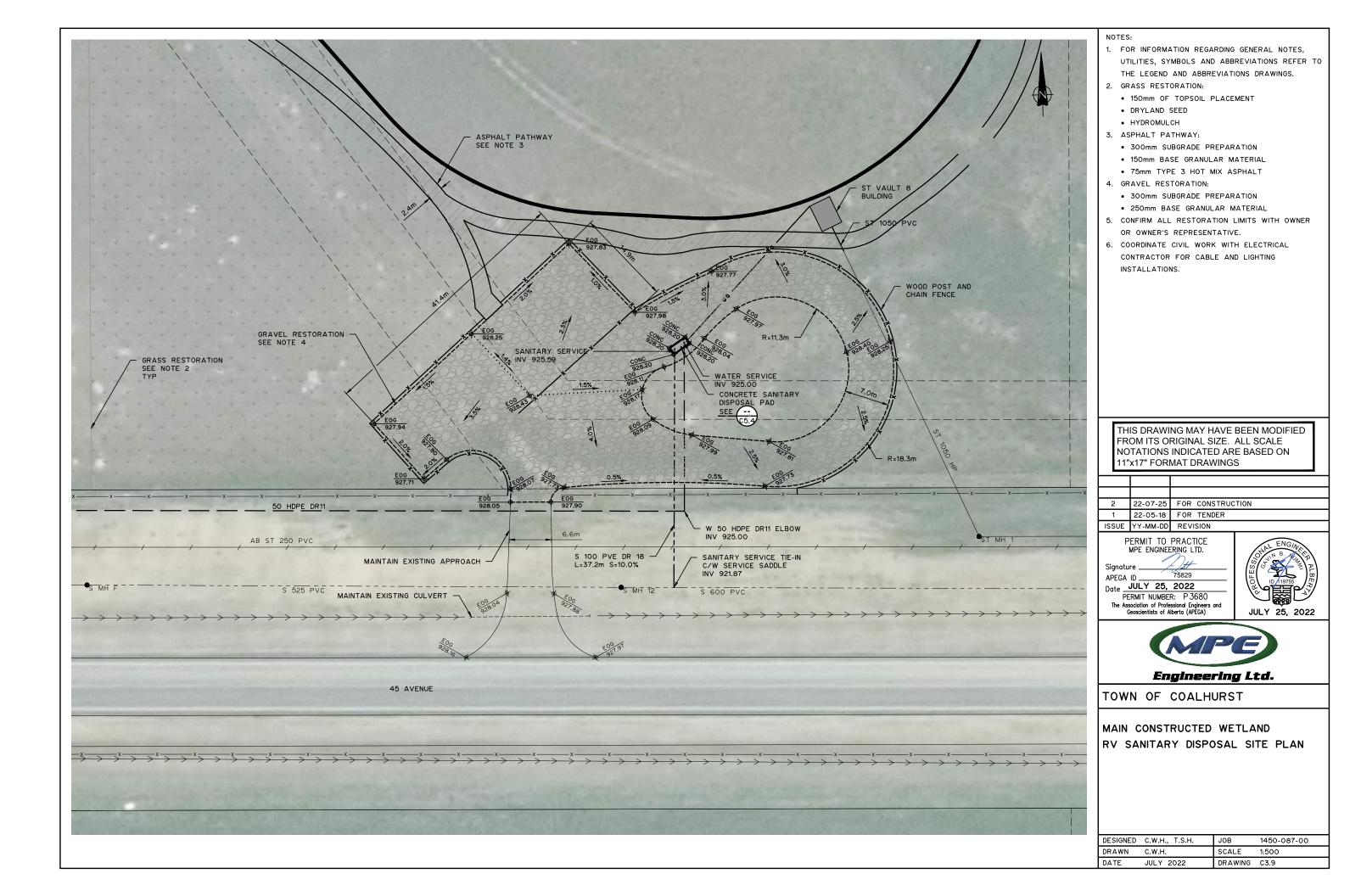


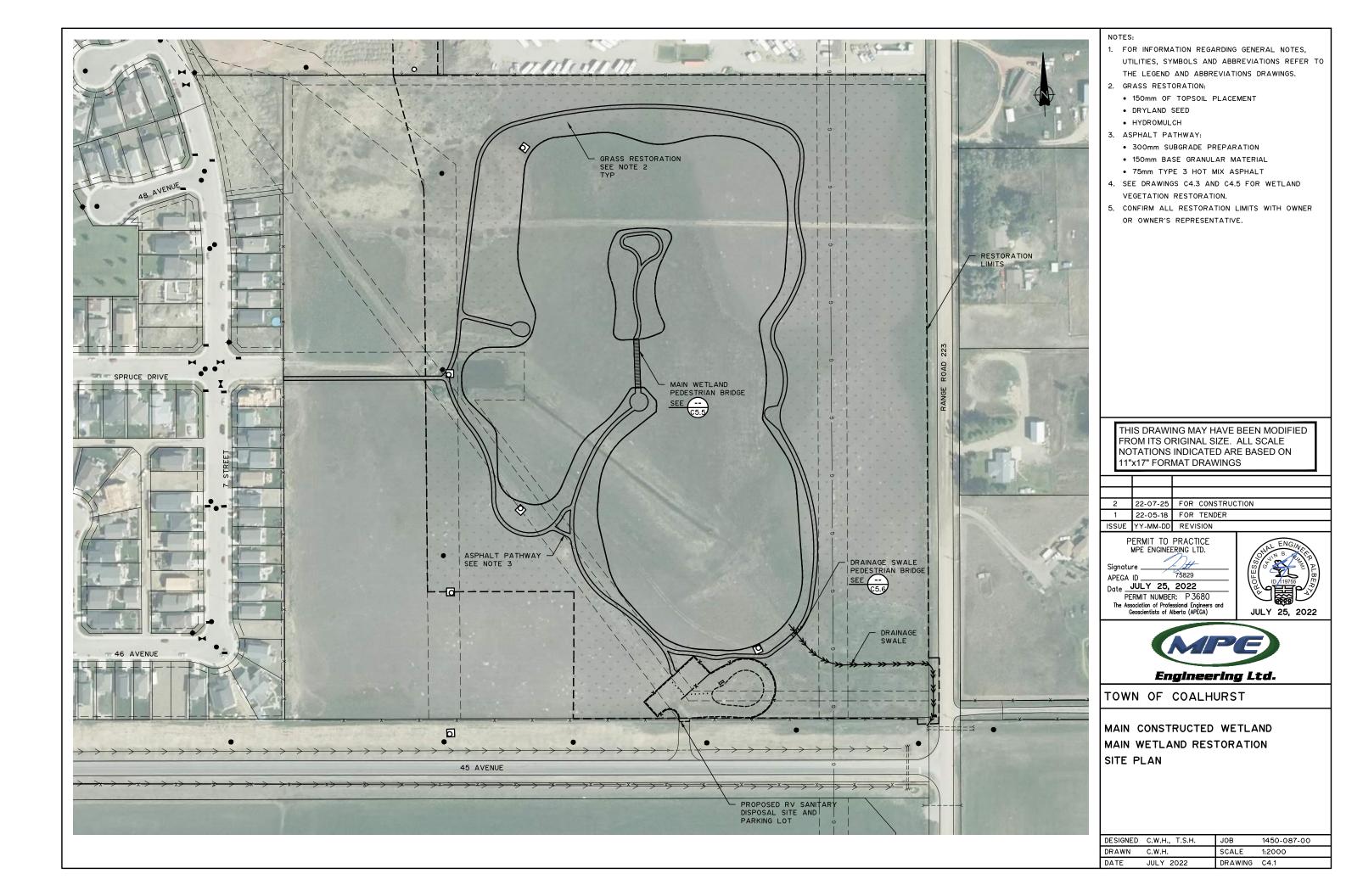


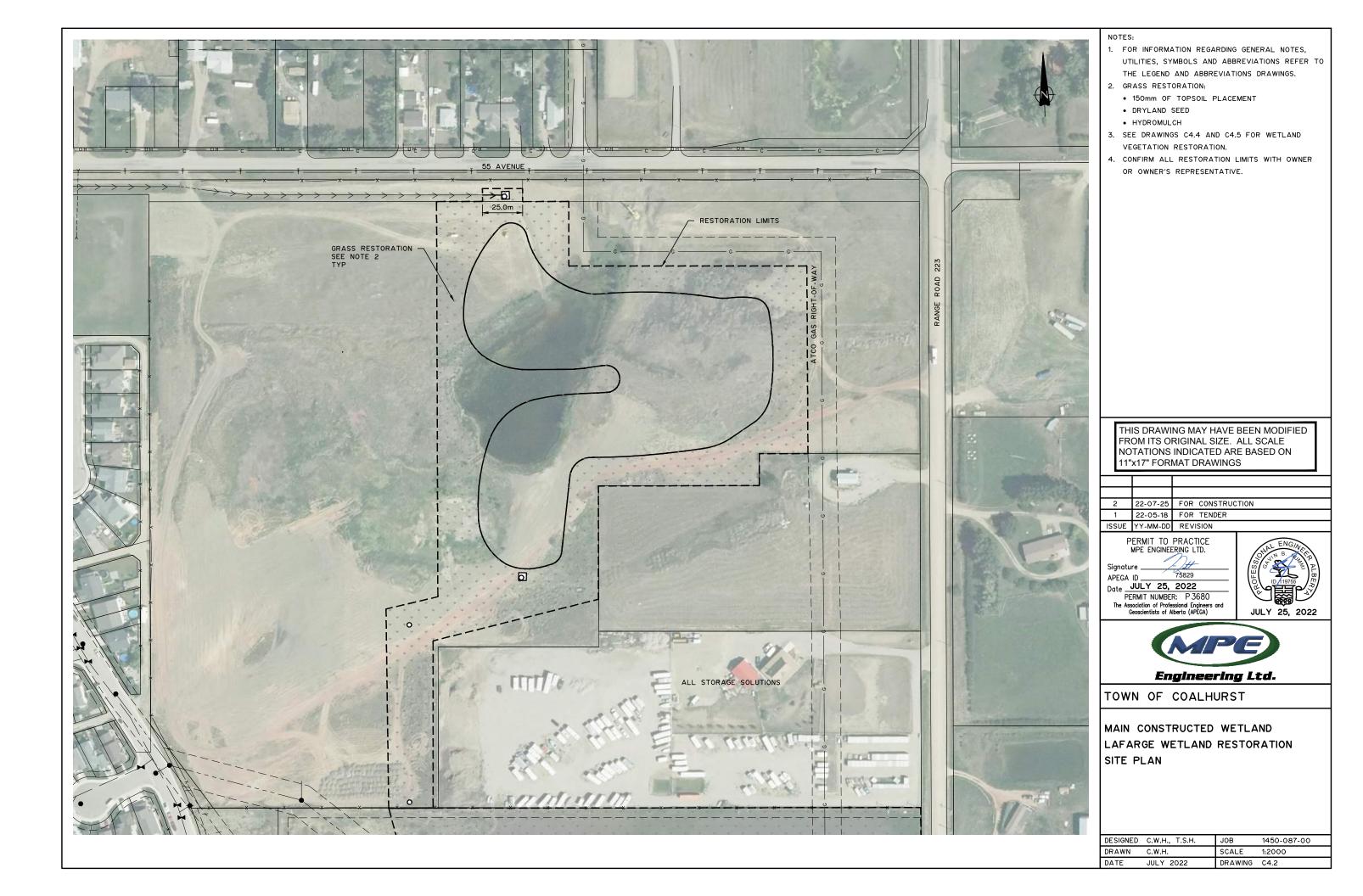


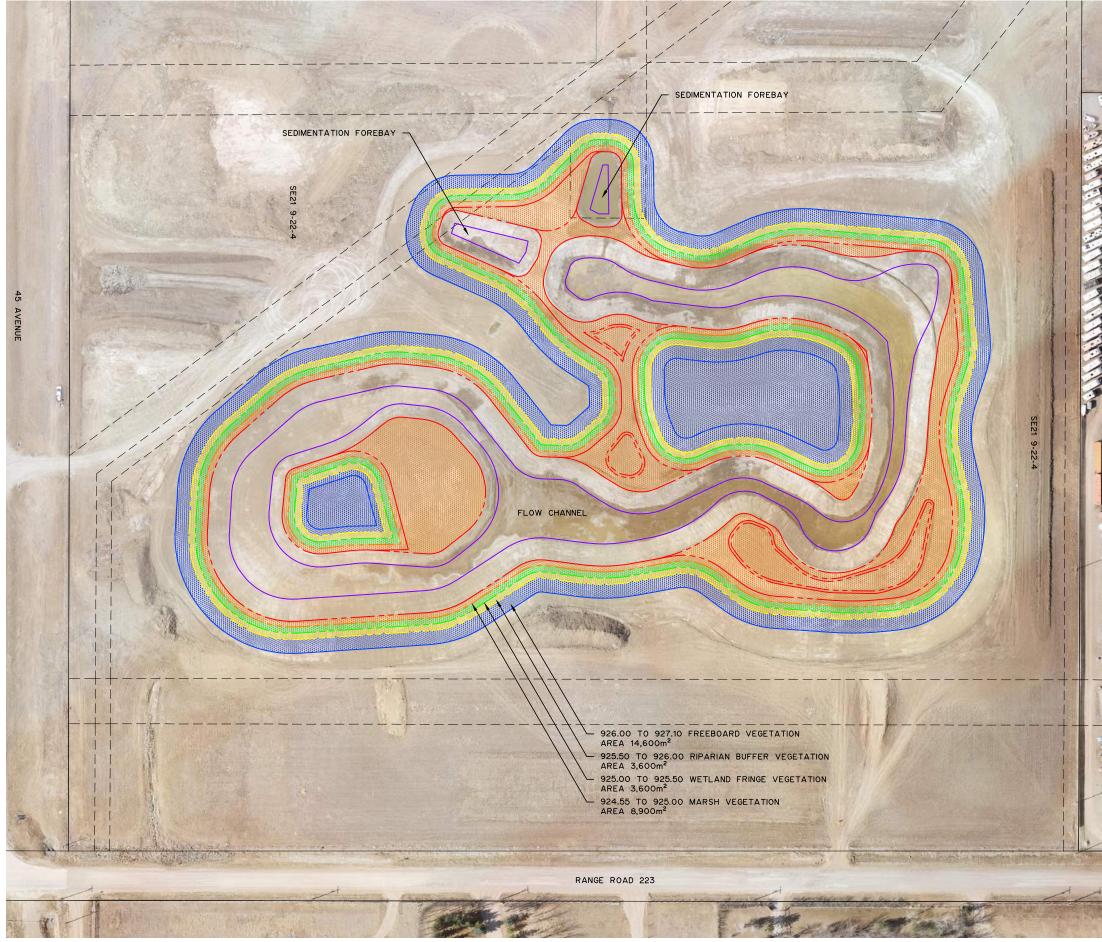


	NOTES 1. FO				ERAL NOTES,
	UT	ILITIES, SY	MBOLS AND	ABBREVI	ATIONS REFER TO
		E LEGEND	AND ABBRE	EVIATIONS	DRAWINGS.
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$		150mm OF DRYLAND	TOPSOIL F SEED	LACEMENT	T
	•	HYDROMUL	сн		
					PLUG END OF SHRINK GROUT
	NO	TATIONS	RIGINAL S	D ARE BA	
	11"	x17" FOR	MAT DRAV	VINGS	
	2 1	22-07-25 22-05-18	FOR CONS		
		YY-MM-DD			
		ERMIT TO MPE ENGINEE			ONAL ENG/ALTER
	Signatu APEGA				
	Date 🕒	JULY 25,		=   \¢	
	The Ass		ssional Engineers		ULY 25, 2022
		En	ginee	rina L	td.
	тоw		COALH		
			RUCTED		
		AGE S	WALE S	ITE PL	AN
	1				
	DE0101-	- D	TOU		1450 007 00
	DE SIGNE DRAWN		T.S.H.	JOB SCALE	1450-087-00 1:1000

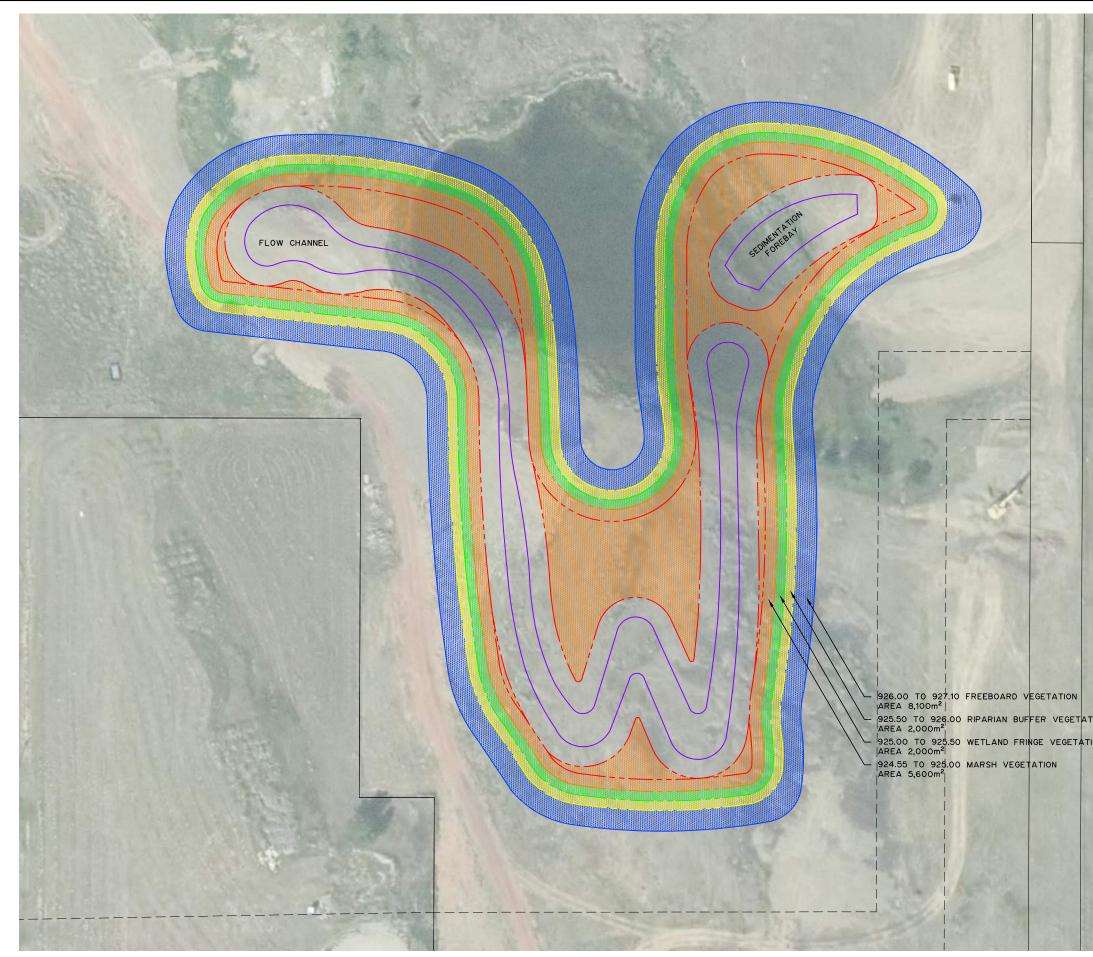








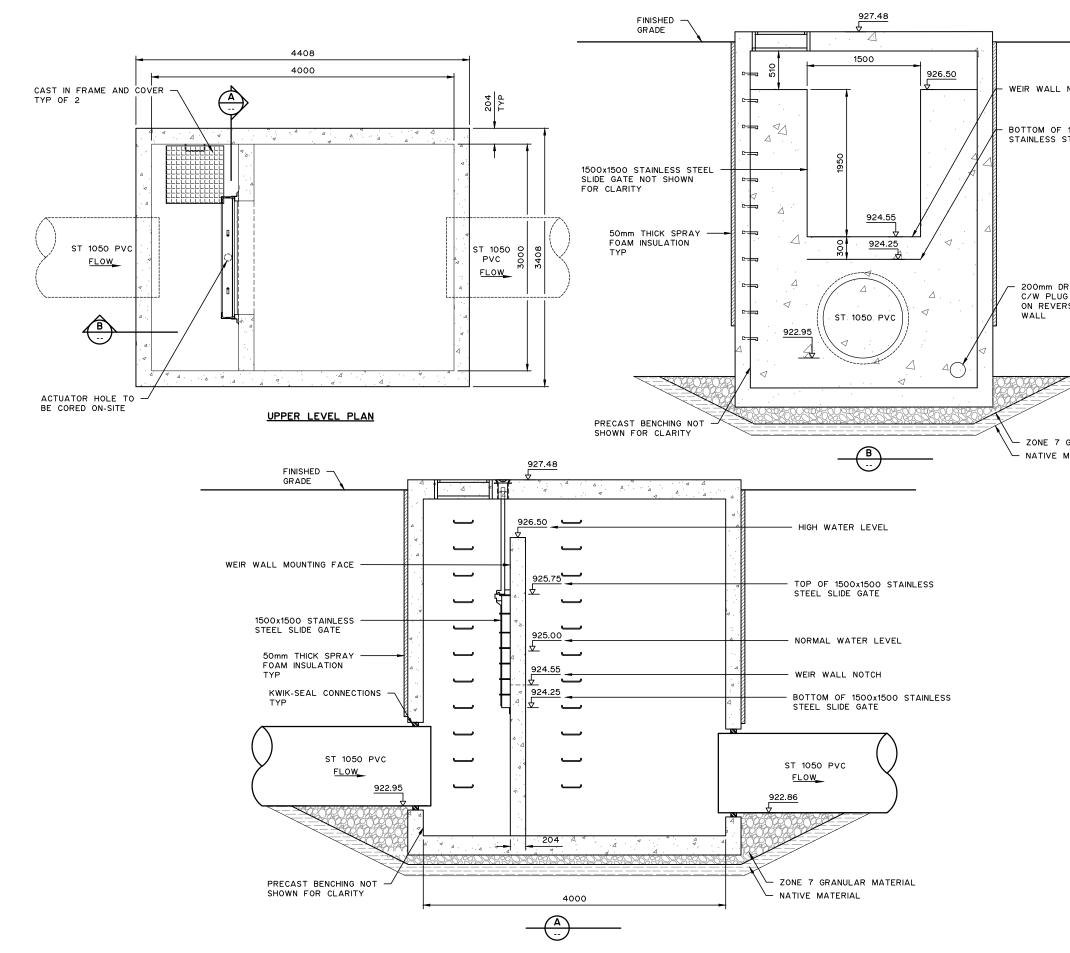
	NOTES: 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS. 2. REFER TO C3.1 FOR GRADING AND GRADE BREAK DELINEATIONS. 3. REFER TO C4.5 FOR PLANTING BREAKDOWN FOR EACH RESTORATION ZONE.
	THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS
14. 3	
30 3	2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER
	ISSUE YY-MM-DD REVISION  PERMIT TO PRACTICE MPE ENGINEERING LTD.  Signature APEGA ID 75829 Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)
	Engineering Ltd.
	TOWN OF COALHURST
EUI	MAIN CONSTRUCTED WETLAND MAIN WETLAND VEGETATION RESTORATION PLAN
	DESIGNED         C.W.H.,         T.S.H.         JOB         1450-087-00           DRAWN         C.W.H.         SCALE         1:1500
	DATE JULY 2022 DRAWING C4.3



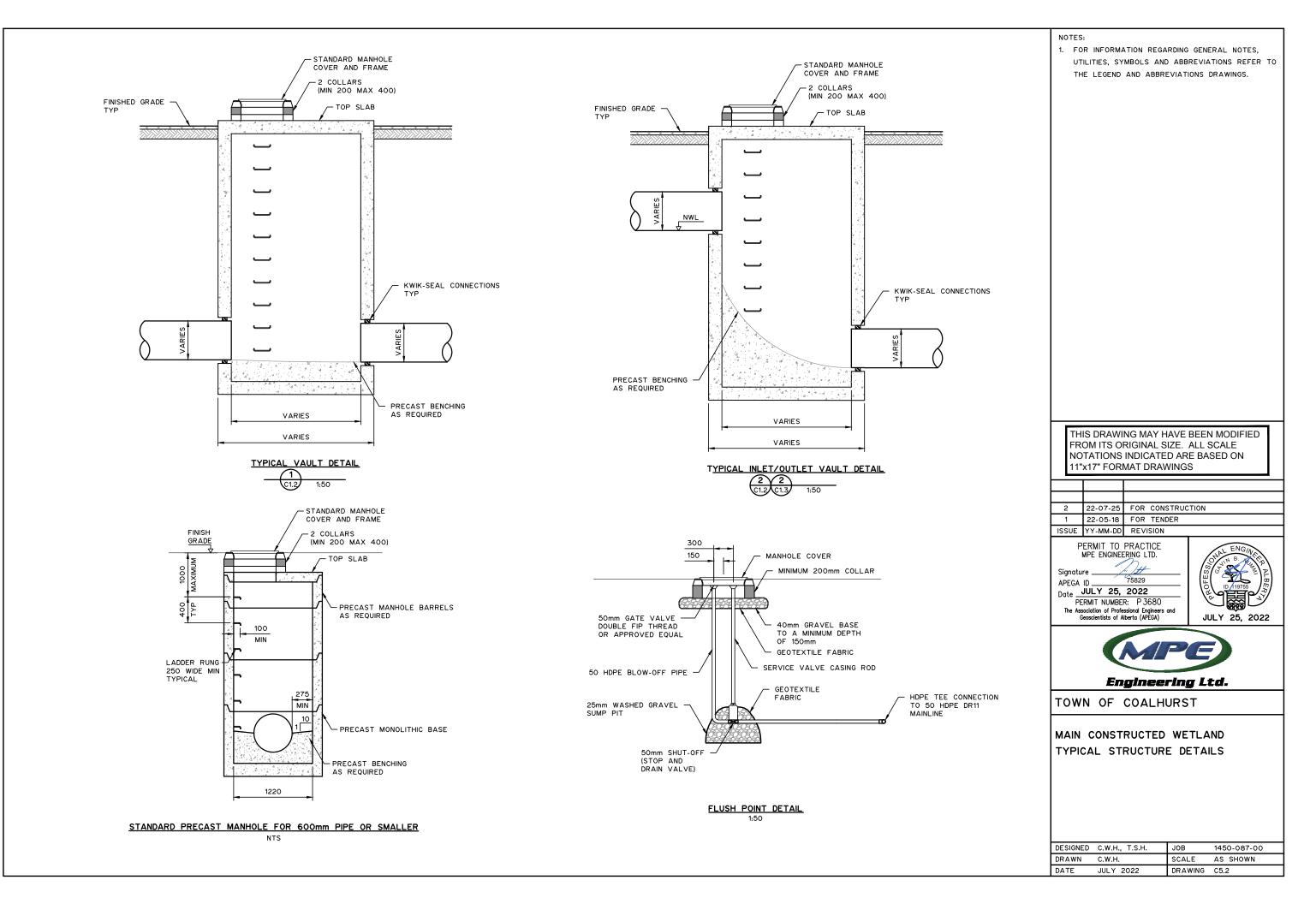
	NOTES: 1. FOR INFORMATION REGA UTILITIES, SYMBOLS AND THE LEGEND AND ABBRE 2. REFER TO C3.2 FOR GR DELINEATIONS. 3. REFER TO C4.5 FOR PL EACH RESTORATION ZON	ABBREVIATIONS REFER TO VIATIONS DRAWINGS. ADING AND GRADE BREAK ANTING BREAKDOWN FOR
E F	THIS DRAWING MAY H	AVE BEEN MODIEIED
55 AVENUE	FROM ITS ORIGINAL S NOTATIONS INDICATE 11"x17" FORMAT DRAV	IZE. ALL SCALE D ARE BASED ON
С		
	2 22-07-25 FOR CONS 1 22-05-18 FOR TEND	
	ISSUE YY-MM-DD REVISION	
	PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature APEGA ID Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers Geoscientists of Alberta (APEGA)	and JULY 25, 2022
TION		
TION		
13 82	Enginee	ring Ltd.
11 12 1	TOWN OF COALH	-
11 (M		
8.3 · 8.	MAIN CONSTRUCTED	WETLAND
	LAFARGE WETLAND	
	VEGETATION RESTOR	RATION PLAN
	DESIGNED C.W.H., T.S.H.	JOB 1450-087-00
	DRAWN C.W.H. DATE JULY 2022	SCALE 1:1000 DRAWING C4.4

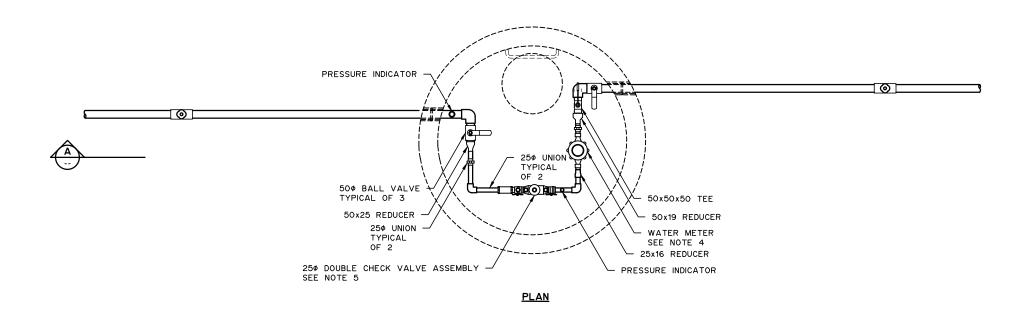
	WETLA	ND VEGETATION PLANTING	G PRESCRIPTION PLAN		
PLANTING ZONE AND DESCRIPTION	1	1 (MARSH)	2 (WETLAND FRINGE)	3 (RIPARIAN BUFFER)	4 (FREEBOARD)
ELEVATION (m)		924.5 TO 925.0	925.0 TO 925.5	925.5 TO 926.0	926.0 TO 927.10
EXPECTED WATER DEPTH (m)		0.5 TO 0.0 (BELOW NWL)	0.0 TO 0.5 (ABOVE NWL)	0.5 TO 1.0 (ABOVE NWL)	1.0 TO 2.1 (ABOVE NWL)
TOPSOIL THICKNESS (mm)		300	300	150	150
MAIN WETLAND TOTAL AREA (m <sup>2</sup>	)	8,900	3,600	3,600	14,600
LAFARGE WETLAND TOTAL AREA	·	5,600	2,000	2,000	8,100
		PLANTS (%) - SEE		2,000	0,100
		TLANTS (%) - SLL			
SUBMERGENT					
ELEOCHARIS PALUSTRIS	CREEPING SPIKE RUSH				
ALOPECURUS AEQUALIS	WATER FOX TAILS				
POLYGONUM AMPHIBIUM	WATER SMARTWEED				
GLYCERIA STRIATA	FOWL MANNA GRASS				
		25	22		
CAREX AQUATILLIS	AWNED SEDGE	25	20		
JUNCUS BALTICUS	BALTIC RUSH	25	20		
CICUTS MACULATA	WATER HEMLOCK	20			
RORIPPA PALUSTRIS	YELLOW CRESS	20			
POLEMONIUM ACUTIFLORUM	JACOBS LADDER	10			
ANEMONE CANADENSIS	CANADA ANEMONE		5		
RANUNCULUS SCELERATUS	CURSED CRAWFOOT		5		
NATIVE GRASSES					
LOW LYING (MOIST CONDITION	1				
CAREX LANUGINOSA	WOOLLY SEDGE		10		
DESCHAMPSIA CESPITOSA	TUFFED HAIR GRASS		20		
AGROPYRON SMITHI	WESTERN WHEATGRASS		10		
DISTICHLIS STRICTA	SALT GRASS		10		
RIPARIAN BUFFER (MOIST CO	1				
HELICTOTRICHON HOOKERI	HOOKERS OATS GRASS			25	
POA PRATENSIS	KENTUCKY BLUEGRASS			25	
STIPA CURISETA	WESTERN PORCUPINE GRASS			25	
VULPIA	SIX-WEEKS FESCUE			25	
BERM (DRY CONDITIONS)					
AGROPYRON DASYSTACHYUM	NORTHERN WHEATGRASS				25
ELYMUS CANADENSIS	CANADIAN WILD RYE				25
FESTUCA HILLII	PLAINS ROUGH FESCUE				25
STIPA VIRIDULA	GREEN NEEDLE GRASS				25
NATIVE SHRUBS					
LOW LYING (MOIST CONDITION	NS)				
PRUNUS VIRGINIANA	CHOKE CHERRY		5	5	
SALIX EXIGUA	SANDBAR WILLOW		5	5	
RIPARIAN BUFFER (MOIST CO	NDITIONS)	I			
SALIX LUCIDA	SHINING WILLOW			5	
SYMPHORICARPOS ALBUS	SNOWBERRY			5	
BERM (DRY CONDITIONS)		I			
ELAEAGNUS COMMUTATA	WOLF WILLOW				5
ROSA WOOSII	WILD ROSE				5

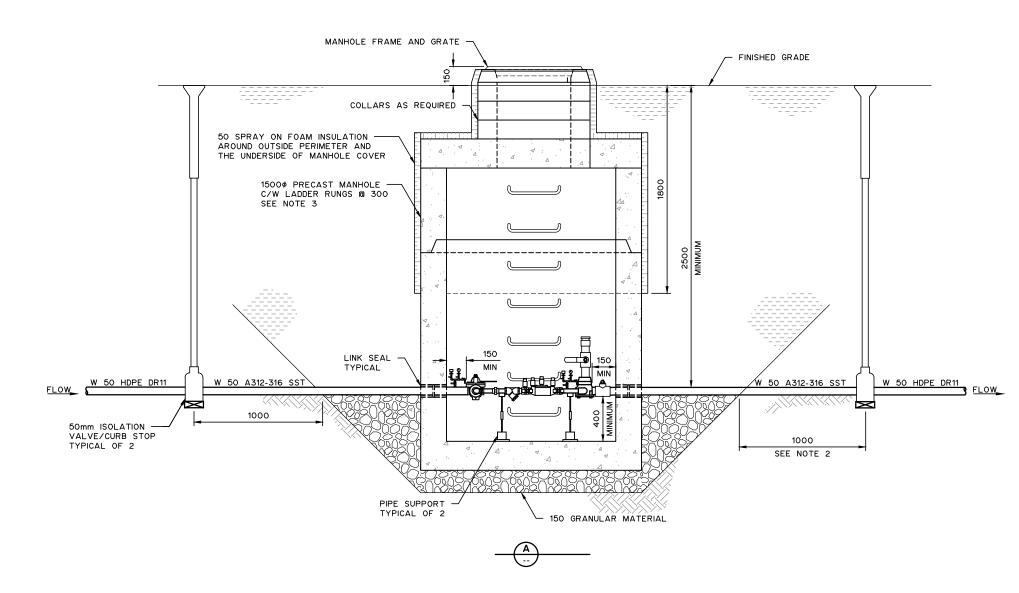
-				
<ul> <li>NOTES:</li> <li>1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.</li> <li>2. EXPECTED WATER DEPTHS ARE BASED ON THE EXPECTED WETLAND ELEVATIONS.</li> <li>3. WITHIN THE MARSH PLANTING ZONE SUGGESTED SPECIES LISTED MAY COLONIZE DEEPER AREAS NATURALLY. CONSIDERATION WILL BE GIVEN TO EXPLORING OPPORTUNITIES TO INCREASE PLANT DIVERSITY IN THESE ZONES.</li> <li>4. VEGETATION SPECIES LISTED ARE SUBJECT TO AVAILABILITY AND FORM (SEED VS SEEDLING).</li> <li>5. SUBSTITUTION PLANT SPECIES SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE.</li> <li>6. TOTAL RESTORATION AREA PROVIDED. LANDSCAPE CONTRACTOR RESPONSIBLE FOR DETERMINING MINIMUM PLANTING AREA REQUIRED TO ESTABLISH FULL COVERAGE AFTER 3 YEARS.</li> <li>7. MAINTENANCE AND MONITORING OF ALL PLANTING TO BE COMPLETED BY LANDSCAPE CONTRACTOR.</li> <li>8. CONTRACTOR RESPONSIBLE FOR TOPSOIL PLACEMENT AND PREPARATION PRIOR TO PLANTING AND SEEDING. CONTRACTOR TO COORDINATE COMPLETION OF TOPSOIL PLACEMENT AND PREPARATION WITH LANDSCAPE CONTRACTOR.</li> </ul>				
THIS DRAWING MAY H FROM ITS ORIGINAL S NOTATIONS INDICATE 11"x17" FORMAT DRAV	IZE. ALL SCALE D ARE BASED ON			
2 22-07-25 FOR CONS	STRUCTION			
1 22-05-18 FOR TEN	DER			
ISSUE YY-MM-DD REVISION				
PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature APEGA ID Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)				
Engineering Ltd.				
TOWN OF COALHURST				
MAIN CONSTRUCTED WETLAND VEGETATION RESTORATION TABLE				
DESIGNED C.W.H., T.S.H.	JOB 1450-087-00			
DRAWN C.W.H.	SCALE			
DATE JULY 2022	DRAWING C4.5			



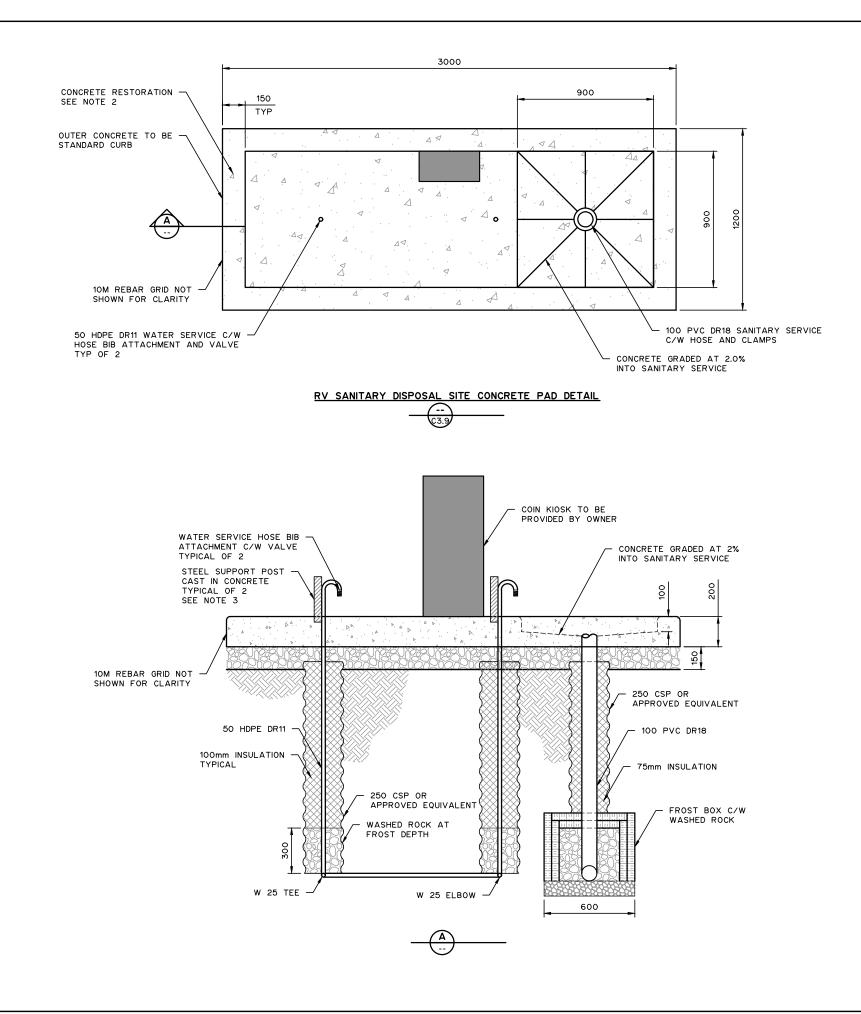
DRAINAGE RELEASE JG VALVE MOUNTED RSE SIDE OF WEIR	<ul> <li>NOTES:</li> <li>1500×1500 STAINLESS STEEL SLIDE GATE C/W NON RISING STEM, ALL MOUNTING HARDWARE AND OPERATING COMPONENTS MOUNTED TO INSIDE FACE OF WEIR WALL. GATE OPENING TO BE AT AN ELEVATION OF 924.25. TOP OF GATE TO BE AT AN ELEVATION OF 925.75. SUBMIT SHOP DRAWINGS AND PRODUCT DATA PRIOR TO COMMENCEMENT OF FABRICATION. STAINLESS STEEL SLIDE GATE TO COME COMPLETE WITH ELECTRIC ACTUATOR. APPROVED SUPPLIER IS SUMMIT VALVE AND CONTROLS INC. ALTERNATIVES SUBJECT TO REVIEW AND APPROVAL BY OWNER.</li> <li>GATE RAILS WILL REQUIRE MODIFICATIONS TO BE MOUNTED ON WEIR WALL. MODIFICATION WILL LIMIT THE GATES OPENING SPAN.</li> <li>APPROVED STAINLESS STEEL SLIDE GATE AND ACTUATOR MODEL:</li> <li>1524 x 1524 GOLDEN HARVEST MODEL GH-46 SS SLIDE GATE.</li> <li>ROTORK IQS35A ACTUATOR.</li> </ul>
GRANULAR MATERIAL MATERIAL	THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature APEGA ID The Association of Professional Engineers and Geoscientists of Alberta (APEGA) The Association of Alberta (APEGA)
	Engineering Ltd.
	TOWN OF COALHURST
	MAIN CONSTRUCTED WETLAND ST VAULT 8 STRUCTURE DETAILS
	DESIGNED         C.W.H.,         T.S.H.         JOB         1450-087-00           DRAWN         C.W.H.         SCALE         1:50
	DATE JULY 2022 DRAWING C5.1

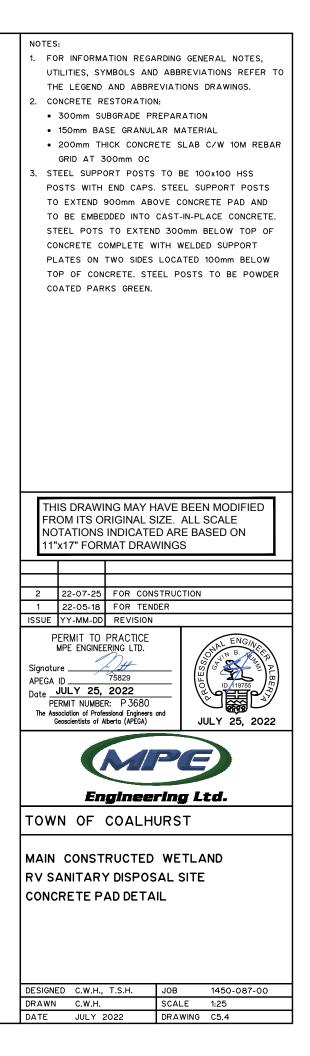


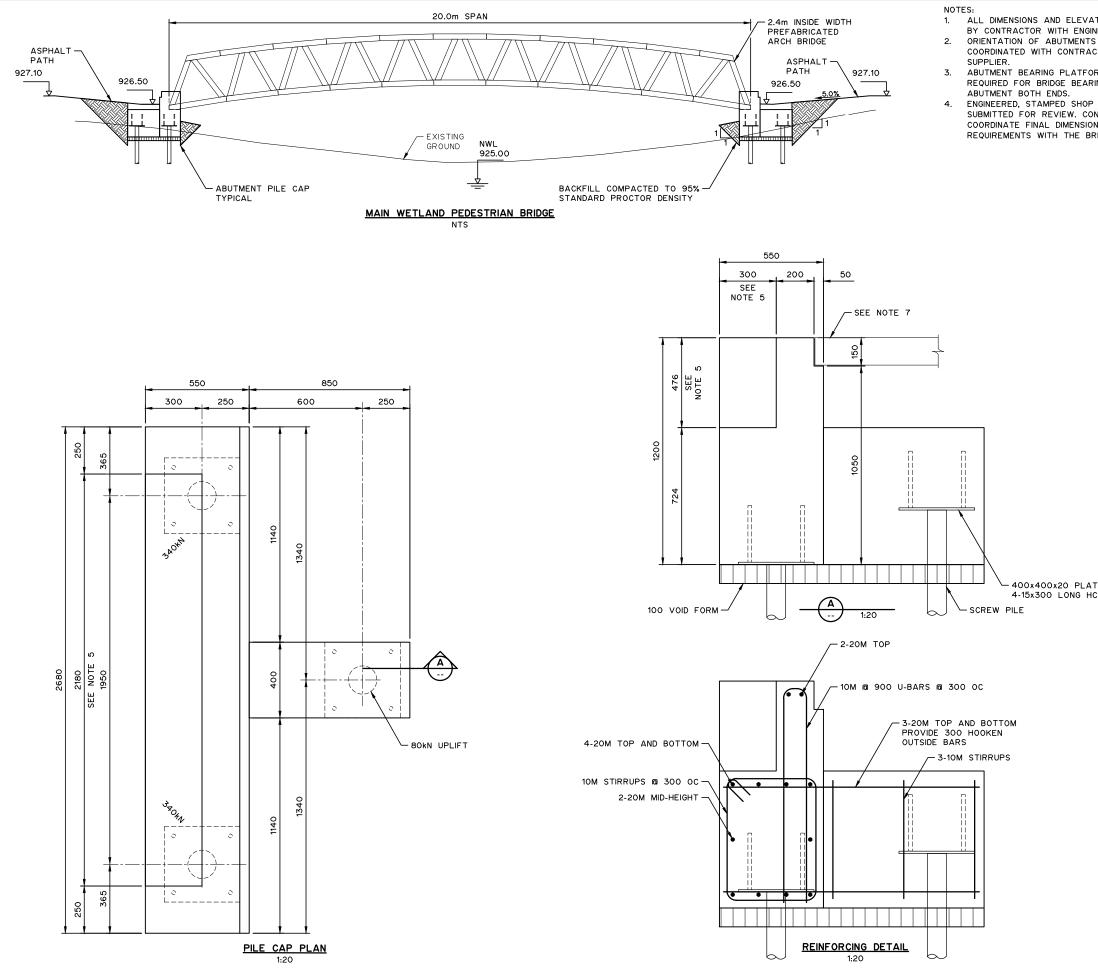




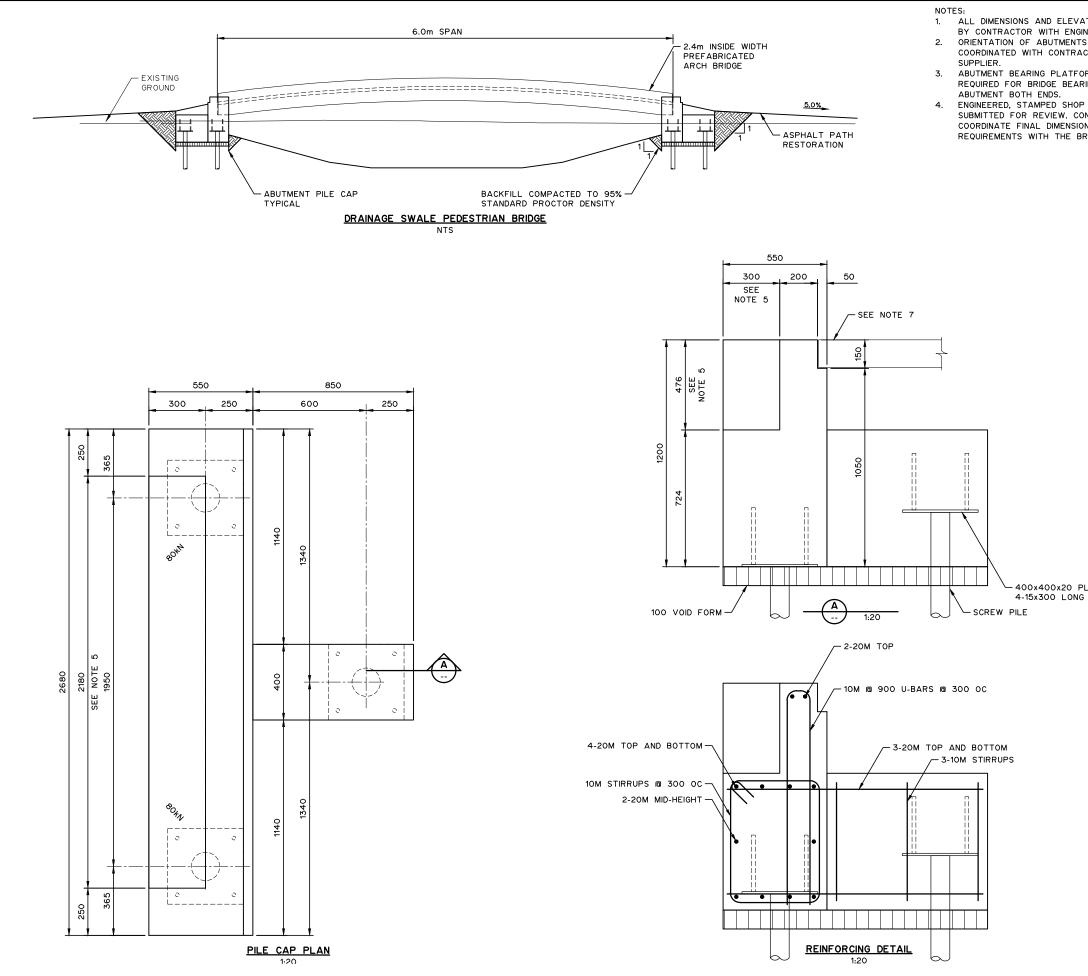
1					
NOTES:					
1. FOR INFORMATION REGA	RDING GENERAL NOTES,				
	UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO				
THE LEGEND AND ABBREVIATIONS DRAWINGS.					
2. TRANSITION COUPLER LC	DCATED SUCH THAT				
STAINLESS STEEL PIPE	EXTENDS 1000mm INTO				
UNDISTURBED GROUND.					
3. PROVIDE RISER WRAP O	N ALL MANHOLE JOINTS				
INCLUDING COLLARS, RIN					
	OS AND TRAME.				
4. WATER METER MODEL:					
• 5/8"x3/4" NEPTUN	NE T-10 METER WITH				
E-CODER R900i RI	EGISTER				
5. DOUBLE CHECK VALVE	ASSEMBLY:				
WATTS MODEL LF	007M10T-S				
6. PRESSURE REDUCING/SUS					
	PRESSURE REDUCING AND				
PRESSURE SUSTAI	NING VALVE				
<ul> <li>PRESSURE SUSTAI</li> </ul>	NING PILOT SET TO 40 PSI				
PRESSURE REDUCI	NG PILOT SET TO 25 PSI				
7, STAINLESS STEEL PIPE	BACKFILL FOR HAUNCHING				
AND INITIAL BACKFILL W					
SIEVE SIZE	% PASSING BY WEIGHT				
10mm	100				
2mm	65-95				
1.25mm	42-86				
0.16mm	2-19				
0.08mm	0-5				
0.00mm	0-0				
THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON					
NOTATIONS INDICATE	D ARE BASED ON				
11"x17" FORMAT DRAW					
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW					
11"x17" FORMAT DRAW					
11"x17" FORMAT DRAW					
2 22-07-25 FOR CONS 1 22-05-18 FOR TEND ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE					
11"x17" FORMAT DRAW           2         22-07-25         FOR CONS           1         22-05-18         FOR TEND           ISSUE         YY-MM-DD         REVISION					
2 22-07-25 FOR CONS 2 22-07-25 FOR CONS 1 22-05-18 FOR TEND ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD.					
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         FOR TEND         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.         Signature       Data					
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         FOR TEND         ISSUE       YY-MM-DD         REWIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID					
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         5       1         2       20-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER: P 3680         The Association of Professional Engineers of the the sociation of Professional Engineers of the	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.         Signature         JULY         75829         Date         JULY         PERMIT NUMBER:         P3680	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         5       1         2       20-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER: P 3680         The Association of Professional Engineers of the the sociation of Professional Engineers of the	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         5       FOR TEND         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER: P 3680         The Association of Professional Engineers of	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         5       1         2       20-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER: P 3680         The Association of Professional Engineers of the the sociation of Professional Engineers of the	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         5       1         2       20-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER: P 3680         The Association of Professional Engineers of the the sociation of Professional Engineers of the	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER:         P 3680         The Association of Professional Engineers of Geoscientists of Alberta (APEGA)	AND STRUCTION DER and JULY 25, 2022				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         5       1         2       20-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         1       22-05-18         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER: P 3680         The Association of Professional Engineers of the the professional Engi	AND STRUCTION DER and JULY 25, 2022				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER:         P 3680         The Association of Professional Engineers of Geoscientists of Alberta (APEGA)	AINGS				
11"x17" FORMAT DRAW	AINGS				
11"x17" FORMAT DRAW	AINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW	VINGS				
11"x17" FORMAT DRAW         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY         PERMIT NUMBER:         P3680         The Association of Professional Engineers of Geoscientists of Alberta (APEGA) <b>Engineer</b> TOWN OF COALHU         MAIN CONSTRUCTED         METER VAULT DETA         DESIGNED C.W.H., T.S.H.	JUB 1450-087-00				
11"x17" FORMAT DRAW	VINGS				



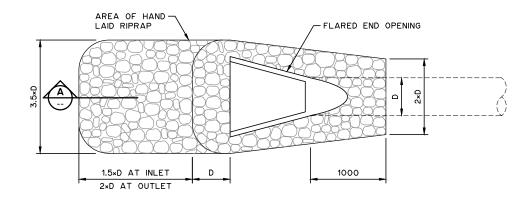




IGINEERS. ITS TO BE CONFIRMED AND ACTOR AND BRIDGE FORM TO BE SKEWED AS ARING PERPENDICULAR TO OP DRAWINGS TO BE CONTRACTOR TO ISONS AND POUNDATION BRIDGE SUPPLIER. 7. TIE-IN TO ADJACENT PATH TO BE APPROVED BY THE BRIDGE DESIGNER AND OWNER'S REPRESENTATIVE. 8. ALL BRIDGE DESIGNER AND OWNER'S REPRESENTATIVE. 8. ALL BRIDGE DESIGNER AND CONFORM TO ASTM A325. 9. ALL TIMBER TO BE PRESSURE TREATED LUMBER. 10. DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA-S6-06. 11. UNIFORM LIVE LOAD -4.0 KP0. MAXIMUM VEHICLE RATING LOADING = 45 kN. 12. ALBERTA BUILDING CODE 2014 1/50 REFERENCE WIND PRESSURE O.68 KP0. 13. ALL HOLLOW STRUCTURAL SHAPES TO CONFORM TO CSA G402/1M 3500 CLASS C OR ASTM A500-03.4 GRADE C/B. ALL OTHER STRUCTURAL MEMBERS TO BE CSA G40.21-350W OR ASTM A572 GR50-07, ASTM A932-06A, ASTM A709 GR50-60A. 14. WELDING TO CONFORM TO CSA W59-03 AND BE PREFORMED BUR A FABRICATOR APPROVED BY THE CAMADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.2-03 (2003) 15. ALL STEEL COMPONENTS TO BE POWDER COATED, OR FINISHED WITH ONE COAT OF EXTERIOR ALKYD ENAMEL PAINT (COLOUR TO THE REQUIREMENTS OF CSA W47.2-03 (2003) 15. ALL STEEL COMPONENTS TO BE POWDER COATED, OR FINISHED WITH ONE COAT OF EXTERIOR ALKYD ENAMEL PAINT (COLOUR TO BE DETERNING ALKYD ENAMEL PAINT (COLOUR DATE SALL DISCIPLINES AS REQUIRED INCLUDING ENGINEERING AND SURVEYING. 15. ALL STEEL COMPONENTE ALL DISCIPLINES AS REQUIRED INCLUDING ENGINEERING AND SURVEYING. 2. 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER		
ATE C/W	VATIONS TO BE CONFIRMED NGINEERS. NTS TO BE CONFIRMED AND RACTOR AND BRIDGE FORM TO BE SKEWED AS ARING PERPENDICULAR TO IOP DRAWINGS TO BE CONTRACTOR TO SIONS AND FOUNDATION BRIDGE SUPPLIER.	<ol> <li>CONTRACTOR TO CONFIRM DEPTH AND WIDTH WITH BRIDGE DESIGNER. SUBMIT FINAL DIMENSIONS FOR REVIEW.</li> <li>BRIDGE FASTENING DETAILS TO BE REVIEWED AND VERIFIED BY BRIDGE DESIGNER. SUBMIT FINAL PLANS FOR REVIEW.</li> <li>TIE-IN TO ADJACENT PATH TO BE APPROVED BY THE BRIDGE DESIGNER AND OWNER'S REPRESENTATIVE.</li> <li>ALL BOLTS TO BE GALVANIZED AND CONFORM TO ASTM A325.</li> <li>ALL TIMBER TO BE PRESSURE TREATED LUMBER.</li> <li>DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA-S6-06.</li> <li>UNIFORM LIVE LOAD -4.0 kPa. MAXIMUM VEHICLE RATING LOADING = 45 kN.</li> <li>ALBERTA BUILDING CODE 2014 1/50 REFERENCE WIND PRESSURE 0.68 kPa.</li> <li>ALL HOLLOW STRUCTURAL SHAPES TO CONFORM TO CSA G40.21-M 350W CLASS C OR ASTM A500-03A GRADE C/B. ALL OTHER STRUCTURAL MEMBERS TO BE CSA G40.21-350W OR ASTM A572 GR50-07, ASTM A992-06A, ASTM A709 GR50-60A.</li> <li>WELDING TO CONFORM TO CSA W59-03 AND BE PREFORMED BY A FABRICATOR APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.2-03 (2003)</li> <li>ALL STEEL COMPONENTS TO BE POWDER COATED, OR FINISHED WITH ONE COAT OF EXTERIOR ALKYD PRIMER FOLLOWED BY TWO COATS OF EXTERIOR ALKYD ENAMEL PAINT (COLOUR TO BE DETERMINED).</li> <li>CONTRACTOR TO COORDINATE ALL DISCIPLINES AS</li> </ol>
Engineering Ltd.         TOWN OF COALHURST         MAIN CONSTRUCTED WETLAND         MAIN WETLAND PEDESTRIAN BRIDGE         DETAIL	LATE C/W HCA	FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS
		Engineering Ltd.         TOWN OF COALHURST         MAIN CONSTRUCTED WETLAND         MAIN WETLAND PEDESTRIAN BRIDGE         DETAIL



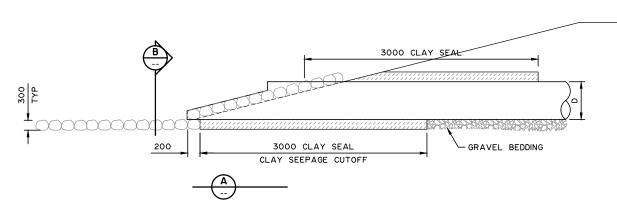
VATIONS TO BE CONFIRMED NGINEERS. NTS TO BE CONFIRMED AND RACTOR AND BRIDGE FORM TO BE SKEWED AS ARING PERPENDICULAR TO OP DRAWINGS TO BE CONTRACTOR TO SIONS AND FOUNDATION BRIDGE SUPPLIER.	<ul> <li>NOTES:</li> <li>CONTRACTOR TO CONFIRM DEPTH AND WIDTH WITH BRIDGE DESIGNER. SUBMIT FINAL DIMENSIONS FOR REVIEW.</li> <li>BRIDGE FASTENING DETAILS TO BE REVIEWED AND VERIFIED BY BRIDGE DESIGNER. SUBMIT FINAL PLANS FOR REVIEW.</li> <li>TIE-IN TO ADJACENT PATH TO BE APPROVED BY THE BRIDGE DESIGNER AND OWNER'S REPRESENTATIVE.</li> <li>ALL BOLTS TO BE GALVANIZED AND CONFORM TO ASTM A325.</li> <li>ALL TIMBER TO BE PRESSURE TREATED LUMBER.</li> <li>DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA-S6-06.</li> <li>UNIFORM LIVE LOAD -4.0 kPa. MAXIMUM VEHICLE RATING LOADING = 45 kN.</li> <li>ALBERTA BUILDING CODE 2014 1/50 REFERENCE WIND PRESSURE 0.68 kPa.</li> <li>ALL HOLLOW STRUCTURAL SHAPES TO CONFORM TO CSA G40.21-M 350W CLASS C OR ASTM A500-03A GRADE C/B. ALL OTHER STRUCTURAL MEMBERS TO BE CSA G40.21-350W OR ASTM A572 GR50-07, ASTM A992-06A, ASTM A709 GR50-60A.</li> <li>WELDING TO CONFORM TO CSA W59-03 AND BE PREFORMED BY A FABRICATOR APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.2-03 (2003)</li> <li>ALL STEEL COMPONENTS TO BE POWDER COATED, OR FINISHED WITH ONE COAT OF EXTERIOR ALKYD PRIMER FOLLOWED BY TWO COATS OF EXTERIOR ALKYD ENAMEL PAINT (COLOUR TO BE DETERMINED).</li> <li>CONTRACTOR TO COORDINATE ALL DISCIPLINES AS REQUIRED INCLUDING ENGINEERING AND SURVEYING.</li> </ul>
PLATE C/W NG HCA	THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS
	DESIGNED C.W.H., T.S.H. JOB 1450-087-00
	DRAWN C.W.H. SCALE AS SHOWN
	DATE JULY 2022 DRAWING C5.6



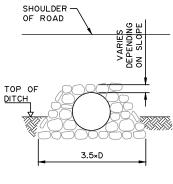
PIPE DIAMETER (D)	AREA OF ONE END EXCLUDING APRON (m <sup>2</sup> )	AREA OF ONE END INCLUDING INLET APRON (m <sup>2</sup> )	AREA OF ONE END INCLUDING OUTLET APRON (m <sup>2</sup> )
500	3	4	5
600	4	6	7
700	5	7	8
800	6	9	10
900	7	11	12
1000	8	13	15
1100	10	15	18
1200	11	18	21
1400	13	22	27
1500	15	26	31

<u>PLAN</u>

\*RIPRAP SURFACE AREAS SHOWN IN THIS TABLE ESTIMATES ONLY AND MAY VARY

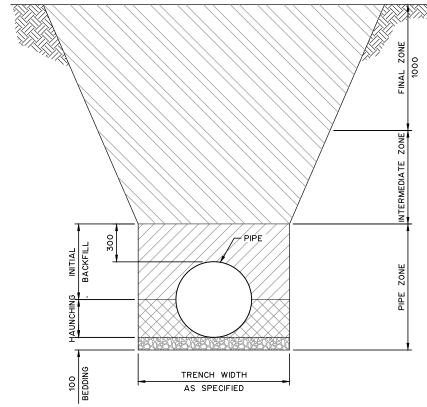


CONCRETE FLARED END TREATMENT





NOTES: 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS. 2. FLARED END TREATMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND TO BE COMPLETE WITH A 3.0m CLAY PLUG COMPACTED TO 98% SPMDD, WITH A MOISTURE CONTENT LIMITS OF OPTIMUM TO +2%. 3. FLARED ENDS TO BE FINISHED WITH 300mm CLASS 1M RIP RAP END TREATMENT. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. 1 14 Signature \_\_\_\_\_ 75829 APEGA ID \_ Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND TYPICAL DETAILS 1 OF 4 DESIGNED C.W.H., T.S.H. JOB 1450-087-00 DRAWN C.W.H. SCALE DATE JULY 2022 DRAWING C5.7

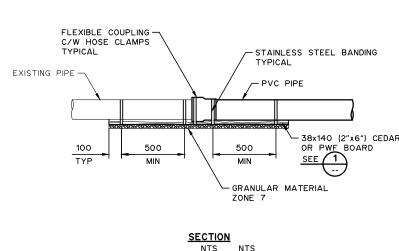


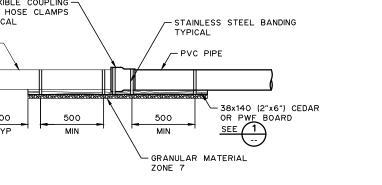


1. REFER TO SECTION 02319 - BACKFILLING SCHEDULE FOR: FILL MATERIAL, MAXIMUM LIFT THICKNESS, MINIMUM COMPACTION AND MOISTURE CONTENT REQUIREMENTS.

TYPICAL TRENCH BEDDING AND BACKFILL REQUIREMENTS

NTS







EXISTING MAIN RECONNECTION

NTS

25x25 NOTCH

1. MATCH INVERTS AND REPAIR SECTION TO EXISTING PIPE.

TYPICAL

NOTE:





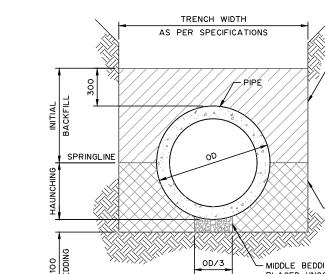


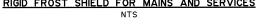


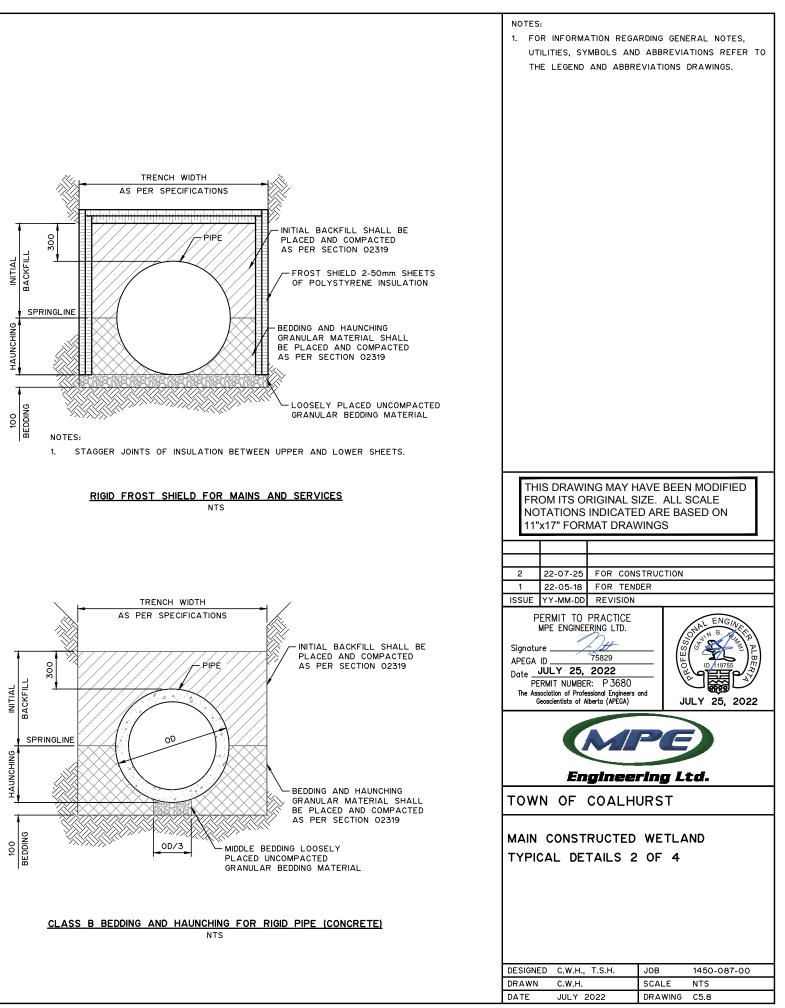


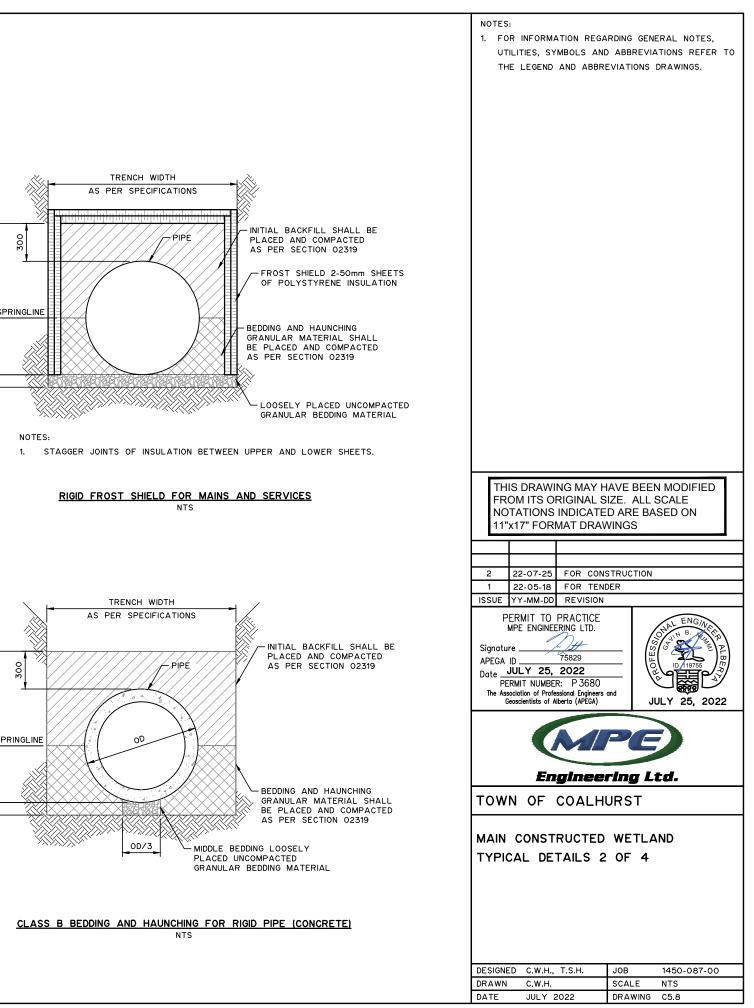
- 38x140 (2"x6") CEDAR

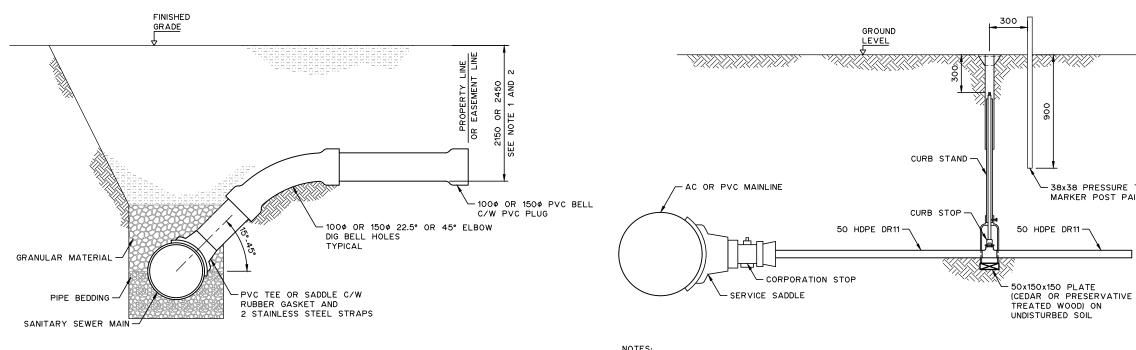
OR PWF BOARD







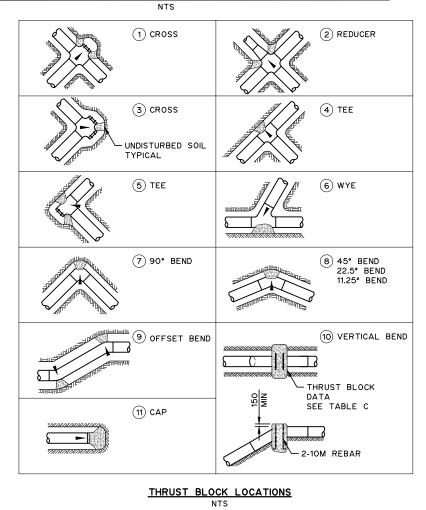




NOTES:

- 1. WHEN LOT SLOPES FROM BACK TO FRONT, THE DEPTH TO BE 2.15m AT PROPERTY LINE.
- 2. WHEN LOT SLOPES FROM FRONT TO BACK, THE DEPTH TO BE 2.45m AT PROPERTY LINE.
- 3. SEWER SERVICES MUST TERMINATE WITH A BELL END.
- 4. SADDLES TO BE A MINIMUM OF 400mm APART.

PVC SANITARY SERVICE CONNECTION FOR SANITARY MAINS LESS THAN 3.7m DEEP



## NOTES:

- 1. CORPORATION STOPS TO BE STAGGERED AND AT LEAST 400mm APART.
- 2. CORPORATION STOPS TO BE 300mm MINIMUM FROM END OF PIPE SECTION.
- 3. USE AWWA THREAD FOR ALL DIRECT TAPS.
- 4. FOR CONNECTIONS IN EXISTING AREAS, HORIZONTAL GOOSENECK TO BE FORMED IF DEPTH IF LESS THAN 1500mm.
- 5. USE SERVICE SADDLE FOR ALL AC, PVC AND HDPE MAINLINE CONNECTIONS.

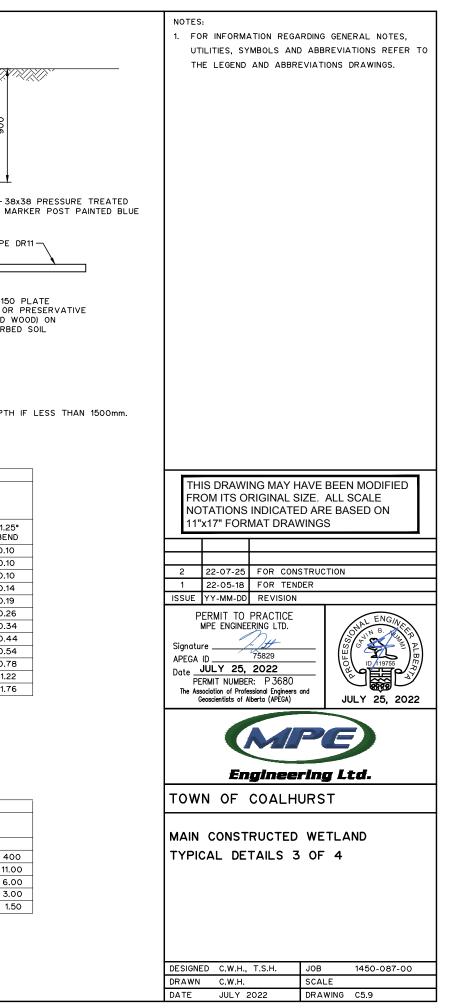
## 50mm WATER SERVICE CONNECTION NTS

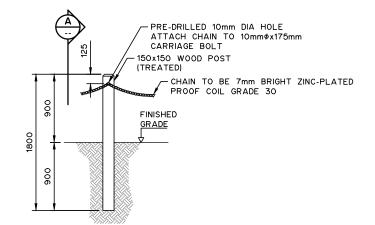
	N15					
			TABLE 'A	,		
Т	HRUST BLOC	CL 150 PI	PE no 100	METRES AT O kPa AND Y OF 100 k		DR
PIPE SIZ		DEAD ENDS OR TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4″	100	0.12	0.17	0.10	0.10	0.10
6″	150	0.25	0.35	0.19	0.10	0.10
8"	200	0.43	0.60	0.33	0.17	0.10
10″	250	0.70	0.99	0.54	0.27	0.14
12″	300	1.00	1.40	0.75	0.39	0.19
14″	350	1.35	1.90	1.03	0.52	0.26
16″	400	1.75	2.47	1.34	0.68	0.34
18″	450	2.24	3.15	1.72	0.87	0.44
20″	500	2.77	3.90	2.12	1.07	0.54
24"	600	4.00	5.64	3.07	1.55	0.78
30″	750	6.26	8.83	4.81	2.44	1.22
36″	900	9.03	12.70	7.58	3.51	1.76
		-	TABLE 'B'			]
SAFE BEARING LOAD						

TABLE B			
SOIL TYPE	SAFE BEARING LOAD kPa		
SOFT CLAY, LOOSE SAND	50		
MEDIUM SOFT CLAY, DENSE SAND	100		
DENSE CLAY TILL AND GRAVEL	150		
HARD SHALE	500		

TABLE 'C'							
DEAD WEIGHT REQUIREMENTS FOR VERTICAL BENDS CUBIC METRES OF CONCRETE (m <sup>3</sup> )							
TYPE OF BEND	SIZE (mm)						
	100	150	200	250	300	350	400
90° BEND	0.75	1.50	2.75	4.25	6.00	8.50	11.00
45° BEND	0.50	1.00	1.50	2.25	3.50	4.75	6.00
22.5° BEND	0.25	0.50	0.75	1.25	1.50	2.25	3.00
11.25° BEND	0.25	0.25	0.50	0.75	1.00	1.25	1.50

THRUST BLOCK DATA NTS

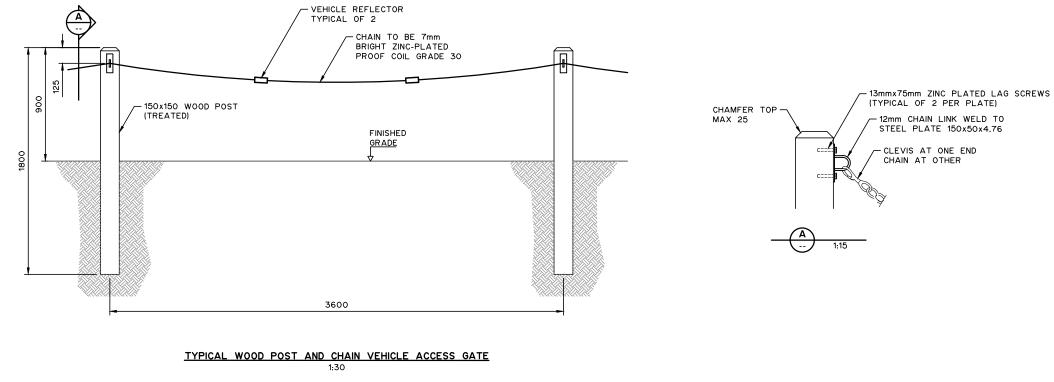


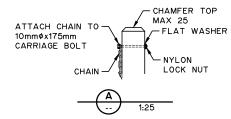


## NOTES:

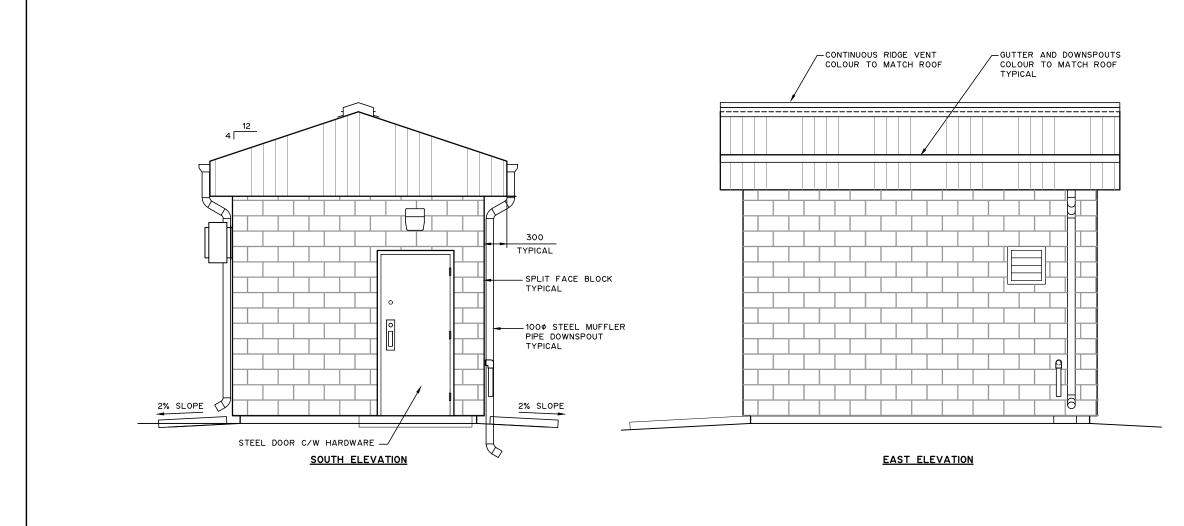
- BACKFILL AND COMPACT SOIL AROUND POST TO SECURE IN PLACE 1.
- 2. OPEN SPACE WOOD POST SPACING D 3.0m O.C. MAXIMUM.
- VEHICULAR ACCESS WOOD POST SPACING D 3.6m O.C. MAXIMUM. 3.
- 4. CHAIN SAG TO BE 150 MAX AND 100 MIN.
- 5. ALL BOLTS AND FASTENERS TO BE ZINC-PLATED
- ALL WOOD POSTS TO BE TREATED WITH ACQ PRESERVATIVE OR APPROVED EQUIVALENT. 6.
- 7. BOLTS NOT TO EXCEED 2 THREADS BEYOND POST. EXCESS LENGTH TO BE CUT AND PEENED OR FILED.
- 8. CROSS BRACING WITH 100x100 REQUIRED AT TERMINAL POSTS, DIRECTIONAL CHANGE IN FENCE AND AT GATES.

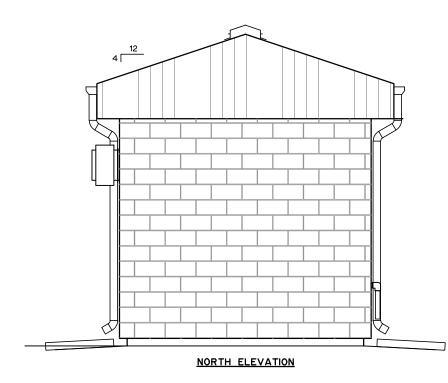
## TYPICAL WOOD POST AND CHAIN FENCE 1:50

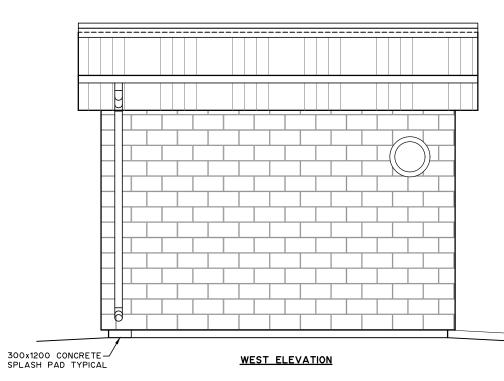




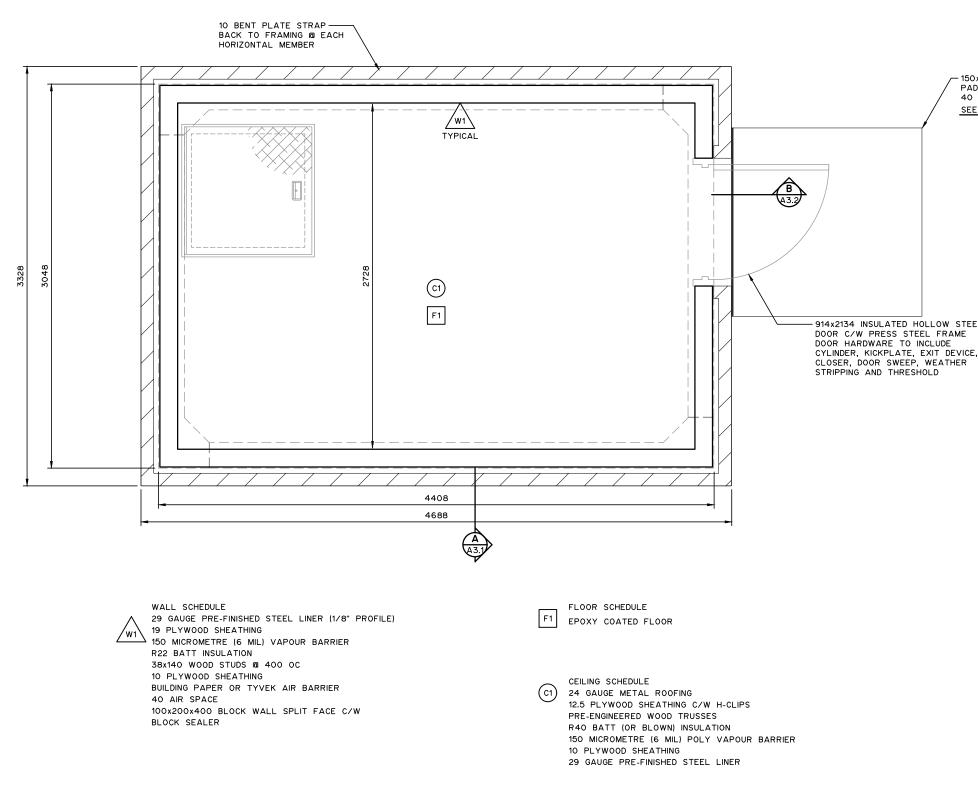
NOTES: 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. /\_)<u>#</u> Signature \_\_\_\_\_ 75829 APEGA ID \_ Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND TYPICAL DETAILS 4 OF 4 DESIGNED C.W.H., T.S.H. 1450-087-00 JOB DRAWN C.W.H. SCALE AS SHOWN DRAWING C5.10 DATE JULY 2022



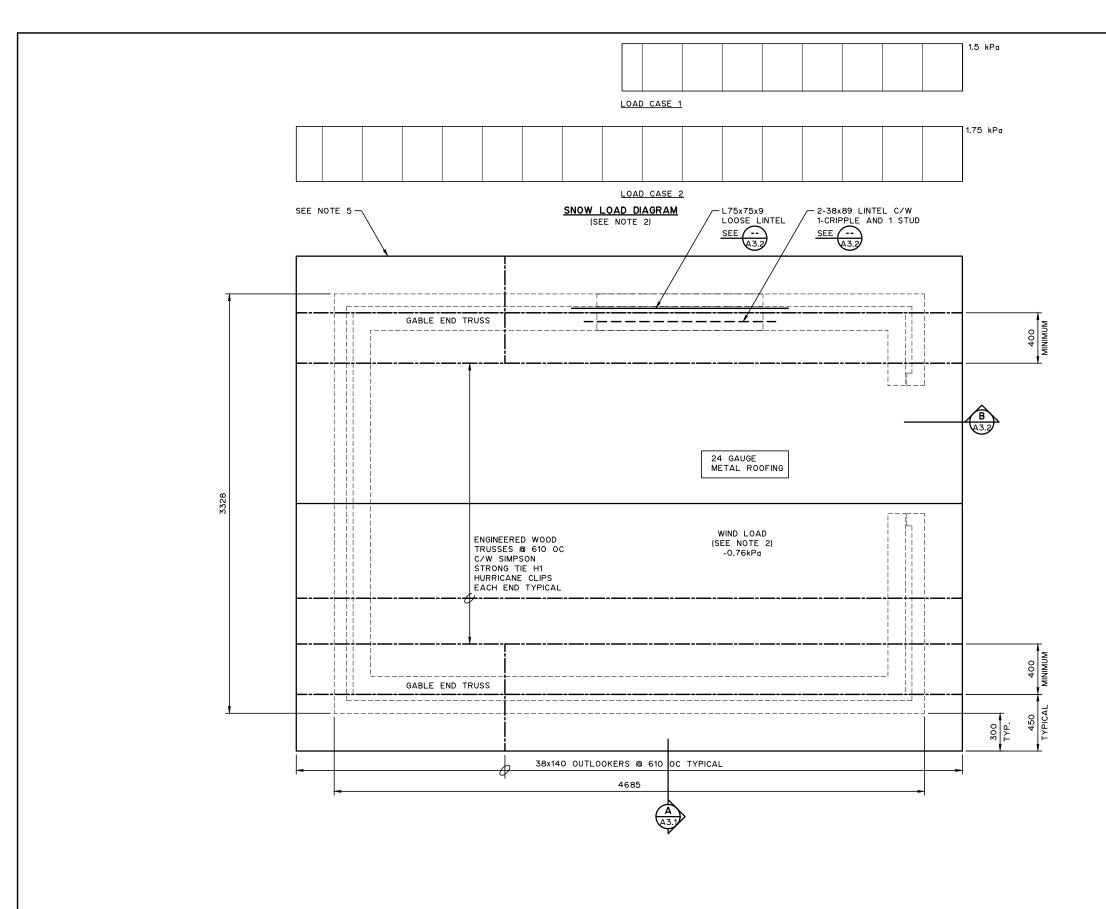




NOTE 1. 2. 3. 4. 5. 6.	SUPPLIED A ROOF SYST FLASHING, I PROVIDE A SUPPLIED A COMPLETE IN SECTION DOOR AND COLOUR. CLADDING A OWNER FRC CONTRACTO OF PENETR	WITH FINISH	ETE WI AND CC BHT RC LED MA H HARD H HARD NTED T COLOUR RD COL ATED S TH MEC	TH ALL IN ALL IN DOOR IN DO	REQUIRED ETAILS TO FEM. AND FRAME S SPECIFIED H ROOF ED BY MPLES. LOCATION
FF N/ 11	ROM ITS O DTATIONS "x17" FOR	ING MAY H RIGINAL S INDICATE MAT DRAV	IZE. A D ARE VINGS	LL SCA BASED	LE
2	22-07-25			ION	
1 ISSUE	22-05-18 YY-MM-DD		JEK		
Signal APEG/ Date _ F	JULY 25, PERMIT NUMBE	ERING LTD. 75829 2022 ER: P 3680 essional Engineers		A The A State of A Sta	ENGAL AND ADDRESS
		ginee			
	VN OF	COALH	UKS		
ARC	I CONST HITECTU VATIONS		WET	LAND	
DESIG	NED C.P.V.		JOB	145	0-087-00
DRAW			SCALI		
DATE		2022		ING A1.1	



	EDITION OF THE NATIO DISASTER. 2. COORDINATE EQUIPMEN SIZE AND LOCATIONS N AND ELECTRICAL.	RUCTED TO THE LATEST NAL BUILDING CODE - POST T PAD AND PUMP BASES WITH PROCESS, MECHANICAL					
0x1500x1500 CONCRETE AD C/W 10M @ 250 EW D FROM TOP OF SLAB EE	CODE REVIEW (NATIONAL BU	JILDING CODE 2010)					
	BUILDING CLASSIFICATION: GROUP F, DIVISION 3 L LOW HAZARD INDUSTRI MAJOR OCCUPANCY AREA: 20m <sup>2</sup> STREETS FACING: ONE (1) CONSTRUCTION: COMBUS SECTION 3.2.2.83 1 STORY POST-DISASTER BUILDING	JP TO 2 STORIES AL					
E.	THIS DRAWING MAY H FROM ITS ORIGINAL S NOTATIONS INDICATE 11"x17" FORMAT DRAV	IZE. ALL SCALE D ARE BASED ON					
	2         22-07-25         FOR CONS           1         22-05-18         FOR TENI           ISSUE         YY-MM-DD         REVISION	STRUCTION DER					
	PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature APEGA ID 75829 Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers Geoscientists of Alberta (APEGA)	and JULY 25, 2022					
	Engineering Ltd.						
	TOWN OF COALH	URST					
	MAIN CONSTRUCTED ARCHITECTURAL PLAN	WETLAND					
	DESIGNED C.P.V. DRAWN C.G.H.	JOB 1450-087-00 SCALE 1:50					
	DATE JULY 2022	DRAWING A2.1					

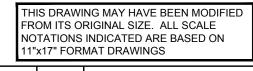


## NOTES:



- BUILDING CONSTRUCTED TO THE LATEST EDITION OF THE ALBERTA BUILDING CODE (POST-DISASTER).
- SNOW AND WIND LOADS INDICATED ARE UNFACTORED AND DO NOT INCLUDE IMPORTANCE FACTOR FOR POST-DISASTER BUILDING.
- 3. DEAD LOADS INDICATED DO NOT INCLUDE SELF-WEIGHT OF TRUSS.
- 4. COORDINATED EXACT LOCATION OF ANTENNA MAST WITH CONTROL.
- PROVIDE FOR ADDITIONAL WIND LOAD OF -1.2kPa AT GABLE ENDS.

ROOF LOAD	TABLE - UNFACTORED	LOADS (kPa)
	LIVE LOAD	DEAD LOAD
TOP CHORD	0.2	
воттом сно	0.53	
WIND LOAD		-0.96



2	22-07-25	FOR CONSTRUC	TION
1	22-05-18	FOR TENDER	
ISSUE	YY-MM-DD	REVISION	
Р	ERMIT TO	PRACTICE	

.)#

75829

MPE ENGINEERING LTD.

PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Date JULY 25, 2022

Signature \_\_\_\_

APEGA ID\_

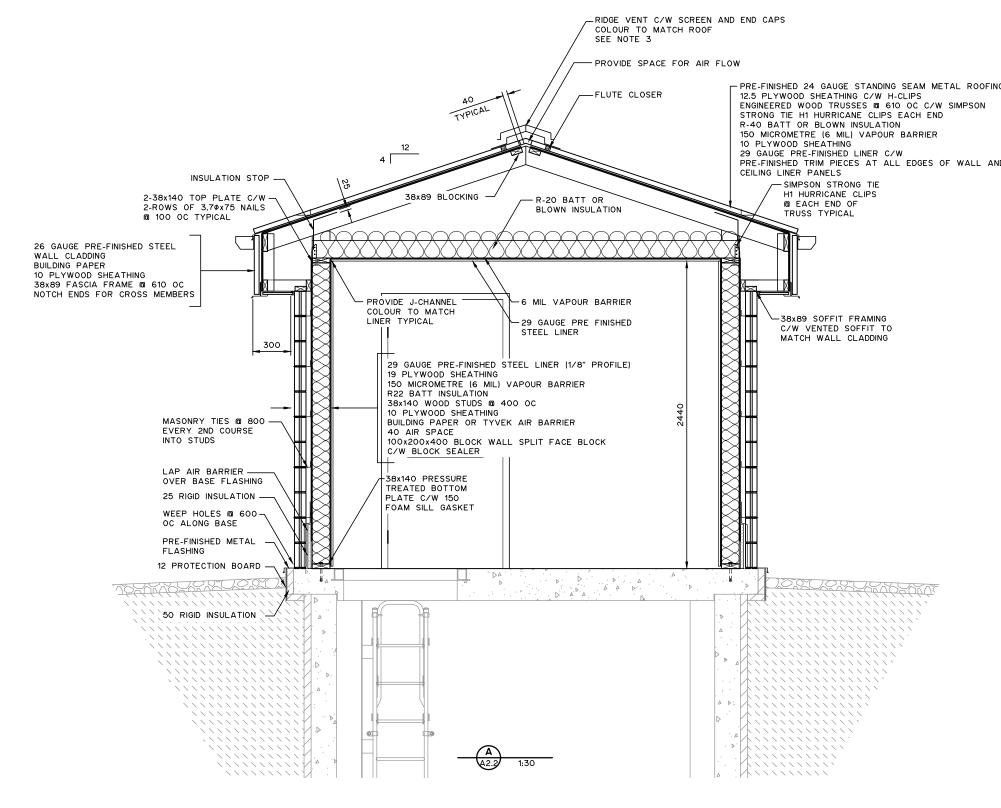




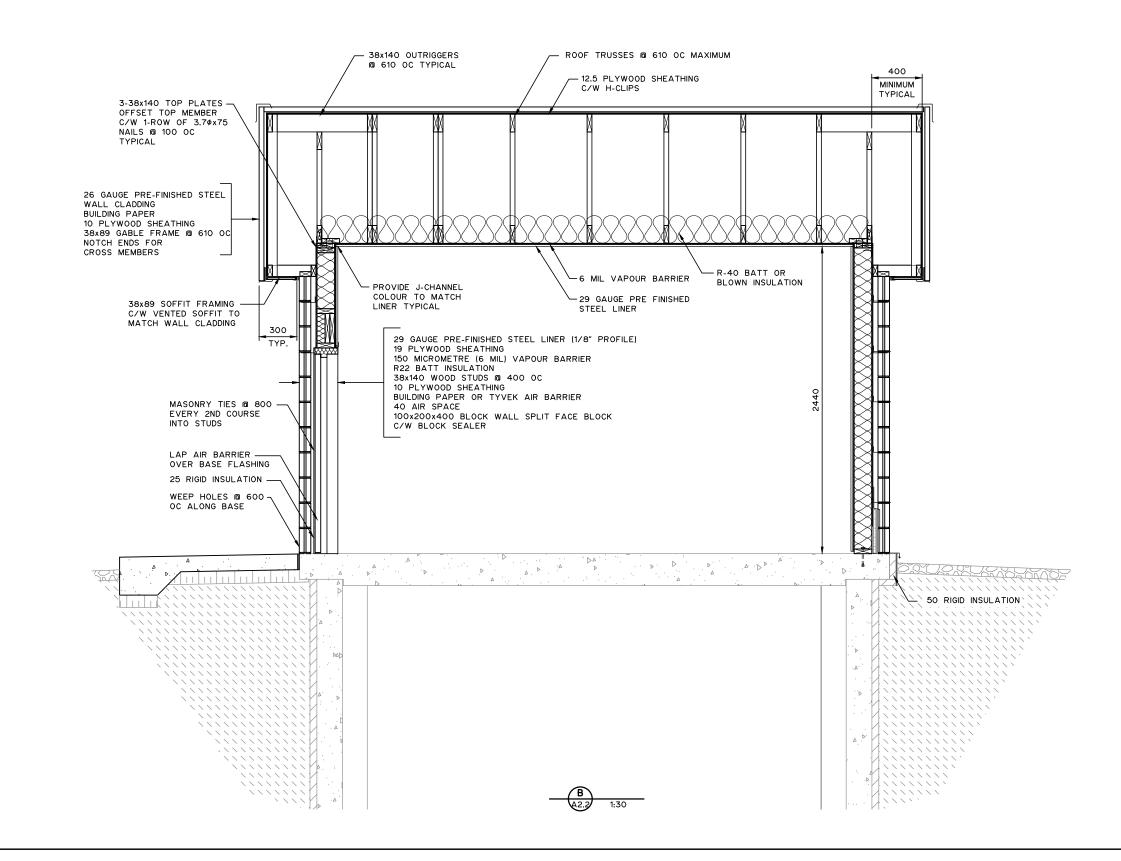
TOWN OF COALHURST

## MAIN CONSTRUCTED WETLAND ARCHITECTURAL ROOF PLAN

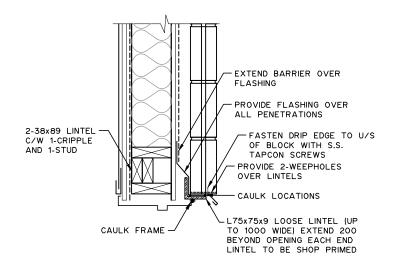
DESIGNED	C.P.V.	JOB	1450-087-00
DRAWN	C.G.H.	SCALE	1:50
DATE	JULY 2022	DRAWING	A2.2



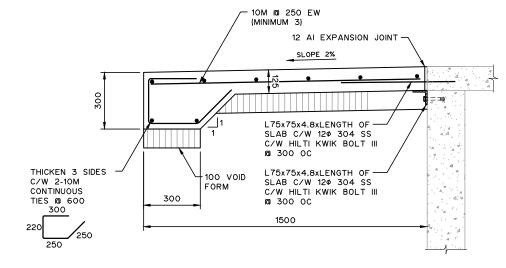
NG	<ul> <li>BARRIER TOGETHER TO CANNOT PASS.</li> <li>RIDGE VENT TO WITHS 140 km/hr.</li> <li>COORDINATE ANCHOR E</li> <li>20 CHAMFER ALL EXP</li> <li>5. SNOW AND WIND LOAD UNFACTORED AND DO FACTOR (I=1.25) FOR P</li> <li>6. DEAD LOADS INDICATED SELF-WEIGHT OF TRUS</li> <li>7. CONTRACTOR TO CONF PRECAST TOP SLAB F MANUFACTURER.</li> </ul>	TAND WIND SPEEDS OF BOLTS WITH MECHANICAL. POSED CONCRETE EDGES. S INDICATED ARE NOT INCLUDE IMPORTANCE POST-DISASTER BUILDING. D DO NOT INCLUDE S. IN ADDITION, TIRM DIMENSIONS OF
	THIS DRAWING MAY H FROM ITS ORIGINAL S NOTATIONS INDICATE 11"x17" FORMAT DRAV	IZE. ALL SCALE D ARE BASED ON VINGS STRUCTION DER
	Engineer TOWN OF COALH MAIN CONSTRUCTED ARCHITECTURAL SECTION	
	DESIGNED C.P.V. DRAWN C.G.H. DATE JULY 2022	JOB         1450-087-00           SCALE         1:50           DRAWING         A3.1



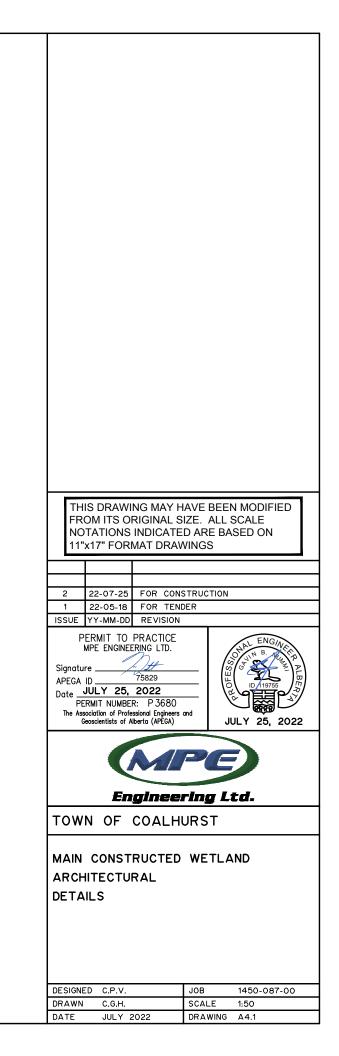
NOTES: 1. BUILDING CONSTRUCTED TO THE LATEST EDITION OF THE ALBERTA BUILDING CODE - POST DISASTER. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. 14 Signature \_\_\_ 75829 APEGA ID\_ Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 1P Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND ARCHITECTURAL SECTIONS AND DETAILS DESIGNED C.P.V. JOB 1450-087-00 DRAWN C.G.H. SCALE 1:50 DATE JULY 2022 DRAWING A3.2





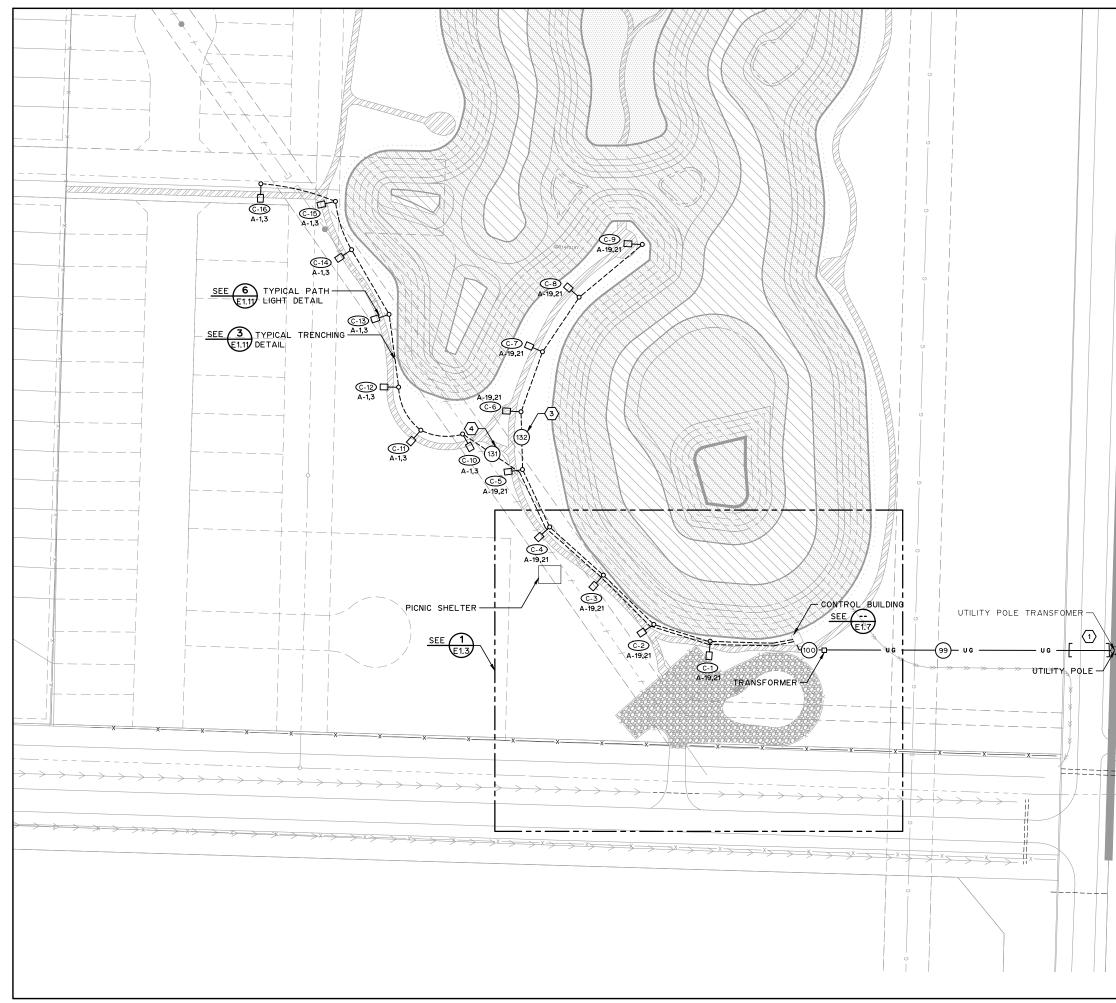


TYPICAL EXTERIOR DOOR SLAB AT PRECAST BUILDING 1:20

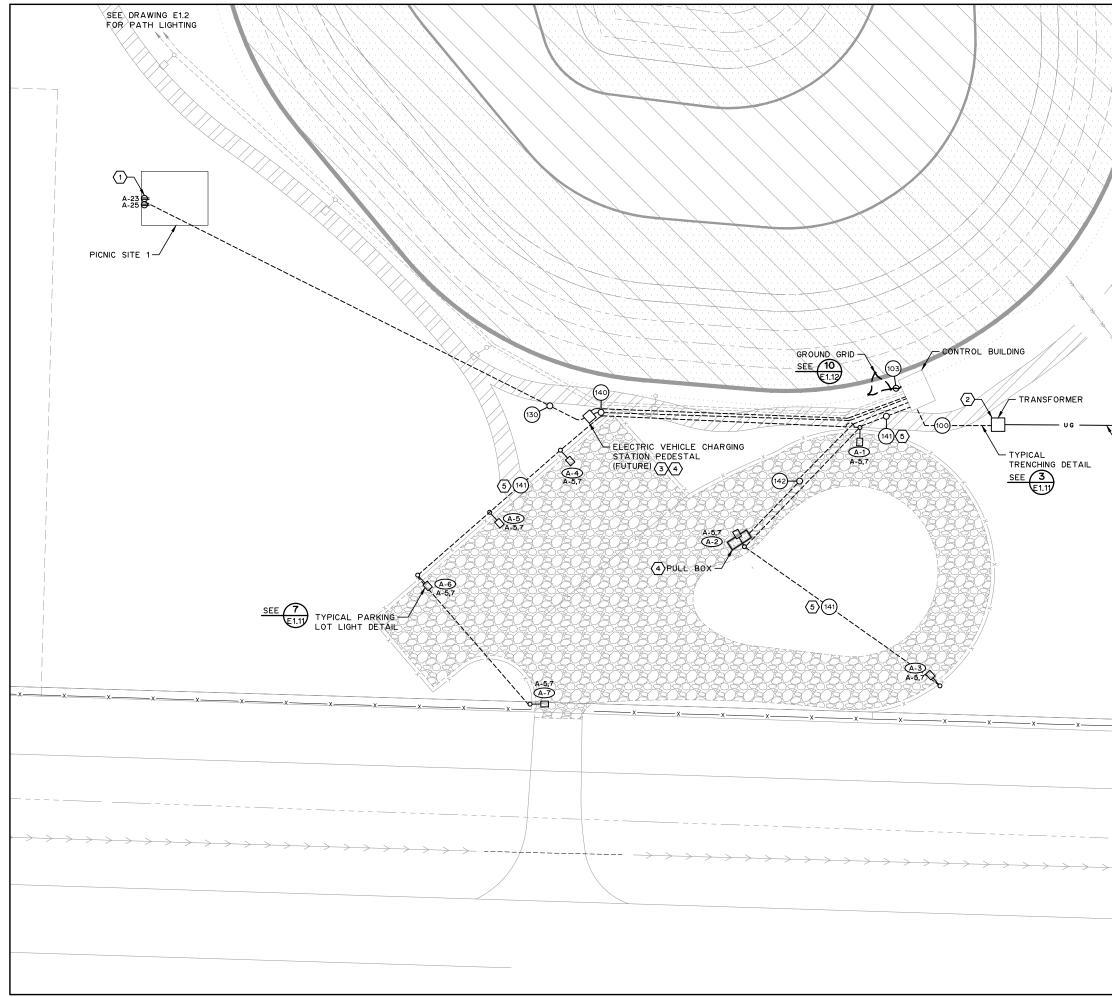


DISTRIBUTION	POWER CONTINUED	POWER EQUIPMENT CONTINUED	INSTRUMENTATION EQUIPMENT	NOTES: 1. ALL BOLD ITEMS INDICATE WORK TO BE DONE
-) CONDUIT IDENTIFICATION TAG	62950 MAGNETIC MOTOR STARTER	는 GROUND ROD	€ LEVEL SWITCH (OPEN ON RISING LEVEL)	ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS
LIGHTING/POWER PANEL	HOME RUN WITH WIRE COUNT	GROUND ROD C/W WELL	LEVEL SWITCH (OPEN ON FALLING LEVEL)	2. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES
J DATA PANEL	•WAP WIRELESS ACCESS POINT	GROUND ROD WITHOUT WELL	• FLOW SWITCH (OPEN ON RISING FLOW)	UNLESS OTHERWISE INDICATED.
INTERCOM PANEL	ELECTRICAL HEATING	GH GATE HOIST	FLOW SWITCH (OPEN ON FALLING FLOW)	
T FIRE ANNUNCIATOR PANEL GROUND BAR			• PRESSURE SWITCH (OPEN ON RISING PRESSURE)	
PLYWOOD BACKBOARD	PIN AND SLEEVE CONNECTOR (FEMALE)	*** MOTOR CONTROL IDENTIFICATION TAG		
EXTERIOR TRANSFORMER				
DRY TYPE TRANSFORMER	SWITCHES AND JUNCTIONS BOXES	TRANSFER SWITCH	TEMPERATURE SWITCH (OPEN ON RISING	
METERING CABINET GREATER THAN 200A	↔ LINE VOLTAGE SWITCH		• TEMPERATURE SWITCH (OPEN ON FALLING	
UTILITY METER PLAN	↔ P SWITCH C/W PILOT LIGHT	COMMUNICATIONS		
POWER METER ELECTRIC UTILITY METER 200A AND LESS		WALL MOUNTED TELEPHONE OUTLET	o∽o limit switch (NC)	
WATER METER	↔ 4 FOUR WAY SWITCH	WALL MOUNTED DATA OUTLET     WALL MOUNTED COMBINATION TELEPHONE/DATA	LIMIT SWITCH (NO)	
GAS METER	↔ MANUAL MOTOR PROTECTION SWITCH C/W PILOT LIGHT	OUTLET	TIME DELAY RELAY (NC)	
SPLITTER	STATED SWITCH - CYLINDER TYPE	◄ WALL MOUNTED TELEVISION OUTLET	TIME DELAY RELAY (NO)	
ELECTRICAL CENTRAL DISTRIBUTION PANEL (CDP)	↔ T TIMER SWITCH	□⁄ WALL MOUNTED CHIME OR BUZZER	(XXX) INSTRUMENTATION IDENTIFICATION TAG	
ELECTRICAL MOTOR CONTROL CENTRE (MCC)	OD DIMMER SWITCH - SLIDER TYPE	CEILING MOUNTED TELEPHONE OUTLET	xxx	
ELECTRICAL MAIN DISTRIBUTION BOARD TRANSFER SWITCH WITH BY-PASS	↔L INTERNALLY ILLUMINATED LIGHT SWITCH ↔R LOW VOLTAGE SWITCH	CEILING MOUNTED COMBINATION TELEPHONE/DATA OUTLET	PLC I/O	
TRANSFER SWITCH	# 2 GANG SWITCH	CEILING MOUNTED TELEVISION OUTLET	PLC	_
120/24V LOW VOLTAGE TRANSFORMER	# 3 GANG SWITCH	CEILING MOUNTED DATA OUTLET (No. OF OUTLETS)	PLC/RTU DIGITAL INPUT	
WEATHER HEAD	4 GANG SWITCH	$\mathbf{M}_{No.}$ Floor mounted data outlet (No. of outlets)	PLC/RTU DIGITAL OUTPUT	
LIGHTING	5 GANG SWITCH	$\mathbf{M}_{No.}$ FLOOR MOUNTED TELEPHONE OUTLET (No. OF OUTLETS)		
	HE WALL MOUNTED PHOTOCELL			
SURFACE MOUNTED LIGHT FIXTURE RECESSED LIGHT FIXTURE	➡ WALL MOUNTED JUNCTION BOX ■ FLOOR MOUNTED JUNCTION BOX	ሥЩ <sup>№0.</sup> (No. OF OUTLETS)	PLC/RTU ANALOG OUTPUT	
RECESSED LIGHT FIXTURE WITH END PLATES	GO SQUARE CEILING MOUNTED JUNCTION BOX	Mo. FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET (No. OF OUTLETS)	MISCELLANEOUS AND LABELS	_
□ SURFACE MOUNTED STRIP LIGHT FIXTURE	THERMOSTAT	RADIO LINK		
→ UNDER CABINET/VALENCE STRIP LIGHT FIXTURE	NON-FUSEABLE DISCONNECT SWITCH			
□ WALL MOUNTED CUBED LIGHT FIXTURE	FUSEABLE DISCONNECT SWITCH	CONTROL PANEL EQUIPMENT	FIXTURE TYPE 	
SURFACE MOUNTED LIGHT FIXTURE	COMBINATION MAGNETIC HOA STARTER	RESET PUSH BUTTON (NO)	MECHANICAL EQUIPMENT IDENTIFICATION TAG	
RECESSED LIGHT FIXTURE WALL MOUNTED LIGHT FIXTURE	O/H DOOR PUSH BUTTON	O RESET PUSH BUTTON (NC)		
EM WALL MOUNTED LIGHT FIXTURE ON EMERGENCY	PB PULL BOX	MUSHROOM HEAD STOP	SINGLE LINE BREAK	
TRACK LIGHT C/W PENDANT HEADS	LIFE SAFETY	H <b>X</b> I A	DOUBLE LINE BREAK	
TRACK LIGHT C/W ADJUSTABLE HEADS	CEILING MOUNTED EXIT LIGHT SINGLE FACE		CAPPED OFF LINE OR CONDUIT	THIS DRAWING MAY HAVE BEEN MODIFIED
BOLLARD LIGHT FIXTURE	CEILING MOUNTED EXIT LIGHT DOUBLE FACE	/ I A 3 POSITION SELECTOR SWITCH	CONDUIT BREAK	FROM ITS ORIGINAL SIZE. ALL SCALE
POLE MOUNTED LIGHT FIXTURE (ONE HEAD SHOWN)	CEILING COMBINATION EXIT SIGN AND		CABLE TRAY	
WALL MOUNTED HID LIGHT FIXTURE	WALL MOUNTED EXIT LIGHT SINGLE FACE		DW DISH WASHER F FRIDGE	11"x17" FORMAT DRAWINGS
POWER	WALL MOUNTED EXIT LIGHT DOUBLE FACE		R RANGE	
DUPLEX RECEPTACLE		OFF 2 POSITION SELECTOR SWITCH	M MICROWAVE	
SPLIT FEED RECEPTACLE	EMERGENCY LIGHT C/W BATTERY		G GARBURATOR	2 22-07-25 FOR CONSTRUCTION
FOURPLEX RECEPTACLE	WALL MOUNTED EMERGENCY LIGHTING	HAND-OFF-AUTO SELECTOR SWITCH	D DRYER W WASHER	1 22-05-18 FOR TENDER
SWITCHED DUPLEX RECEPTACLE	BATTERY PACK		NL NIGHT LIGHT	ISSUE YY-MM-DD REVISION
20A T-SLOT RECEPTACLE (KITCHEN) TWISTLOCK RECEPTACLE	CEILING MOUNTED EMERGENCY LIGHTING	UP-OFF-DOWN SELECTOR SWITCH	TP TAMPER PROOF	PERMIT TO PRACTICE
208 VOLT 1PH RECEPTACLE		O RESET PUSH BUTTON	GFCI GROUND FAULT CIRCUIT INTERRUPTER	MPE ENGINEERING LTD.
208 VOLT 3PH RECEPTACLE	RECESSED REMOTE HEAD	AMBER PILOT LIGHT	IG ISOLATED GROUND EM EMERGENCY	Signature
WALL MOUNTED USB PORT	WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE HEAD	O GREEN PILOT LIGHT	AF AMP FRAME	APEGA ID 75829
PEDESTAL DUPLEX RECEPTACLE	SMOKE DETECTOR		AT AMP TRIP	Date JULY 25, 2022
WALL MOUNTED MULTI-GANG BOX	SMOKE ALARM - 120V	SINGLE PHASE PLUG	WP WEATHER PROOF	PERMIT NUMBER: P 3680 The Association of Professional Engineers and
WALL MOUNTED PUSH BUTTON WALL MOUNTED SURGE PROTECTIVE DEVICE	A	MAIN CONTROL PANEL FUSED TERMINAL BLOCK	XP         EXPLOSION         PROOF           E         EXISTING         DEVICE         TO         REMAIN	Geoscientists of Alberta (APEGA) JULY 25, 20
(SPD OR TVSS)	POWER EQUIPMENT	ES AUXILIARY FUSED TERMINAL BLOCK	X EXISTING DEVICE TO BE REMOVED	
WALL MOUNTED VARIABLE FREQUENCY DRIVE (VFD)	DELTA WYE TRANSFORMER		ER EXISTING DEVICE TO BE RELOCATED	
CEILING MOUNTED DUPLEX RECEPTACLE	JISTRIBUTION TRANSFORMER	MAIN CONTROL PANEL TERMINAL BLOCK PLC/RTU TERMINAL	RD RELOCATED DEVICE WIRE COUNT	
CEILING MOUNTED FOURPLEX RECEPTACLE	-3E POTENTIAL TRANSFORMER	AUXILIARY TERMINAL BLOCK		
CEILING MOUNTED 208 VOLT 1PH RECEPTACLE CEILING MOUNTED 208 VOLT 3PH RECEPTACLE	✓ FUSE DRAW OUT TYPE	MCC/VFD TERMINAL BLOCK	CONDUIT RUN DOWN	Engineering Ltd.
AUXILIARY RELAY	$\leftarrow \frown \rightarrow$ circuit breaker draw out type	DEVICE TERMINAL BLOCK	OH OVERHEAD POWER	
CEILING MOUNTED POWER ZONE BOX	℃ 🖉 🚽 3 PHASE GENERATOR (GROUNDED)	of R DRY CONTACT RELAY		TOWN OF COALHURST
REEL DOWN RECEPTACLE	$\checkmark$ Thermal overload protection	TIME DELAY RELAY	CONDUCTOR/CONDUIT	
PACK POLE			FLEXIBLE CONDUIT	MAIN CONSTRUCTED WETLAND
FLOOR MOUNTED DUPLEX RECEPTACLE No. (No. of OUTLETS)		• MAGNETIC CONTACTOR • SOLENOID	EXISTING EQUIPMENT	MAIN CONSTRUCTED WETLAND
FLOOR MOUNTED FOURPLEX RECEPTACLE		o	NEW EQUIPMENT EQUIPMENT TO BE REMOVED	ELECTRICAL
<sup>NO.</sup> (No. of OUTLETS)	(A)→ CURRENT METER → CONTACTOR	o⊣⊢o DRY CONTACT RELAY (NO)	EQUIFINEINI IU DE REMUVED	ELECTRICAL LEGEND
No. FLOOR MOUNTED 208 VOLT 1PH RECEPTACLE				
NO. FLOOR MOUNTED 208 VOLT 3PH RECEPTACLE	DISCONNECT SWITCH	VARIABLE RESISTOR		
FLOOR MOUNTED MULTI-GANG BOX MOTOR	FUSED DISCONNECT SWITCH			
MOTOR WITH DISCONNECT SWITCH		THERMISTOR		
MOTOR WITH FUSIBLE DISCONNECT SWITCH	o XXX BREAKER POLE			
MOTOR WITH COMBINATION DISCONNECT SWITCH	ETM ELAPSED TIME METER	MOV METAL OXIDE VARISTOR		
				DESIGNED M.T.F., P.P.G. JOB 1450-087-0
				DRAWN M.T.F. SCALE

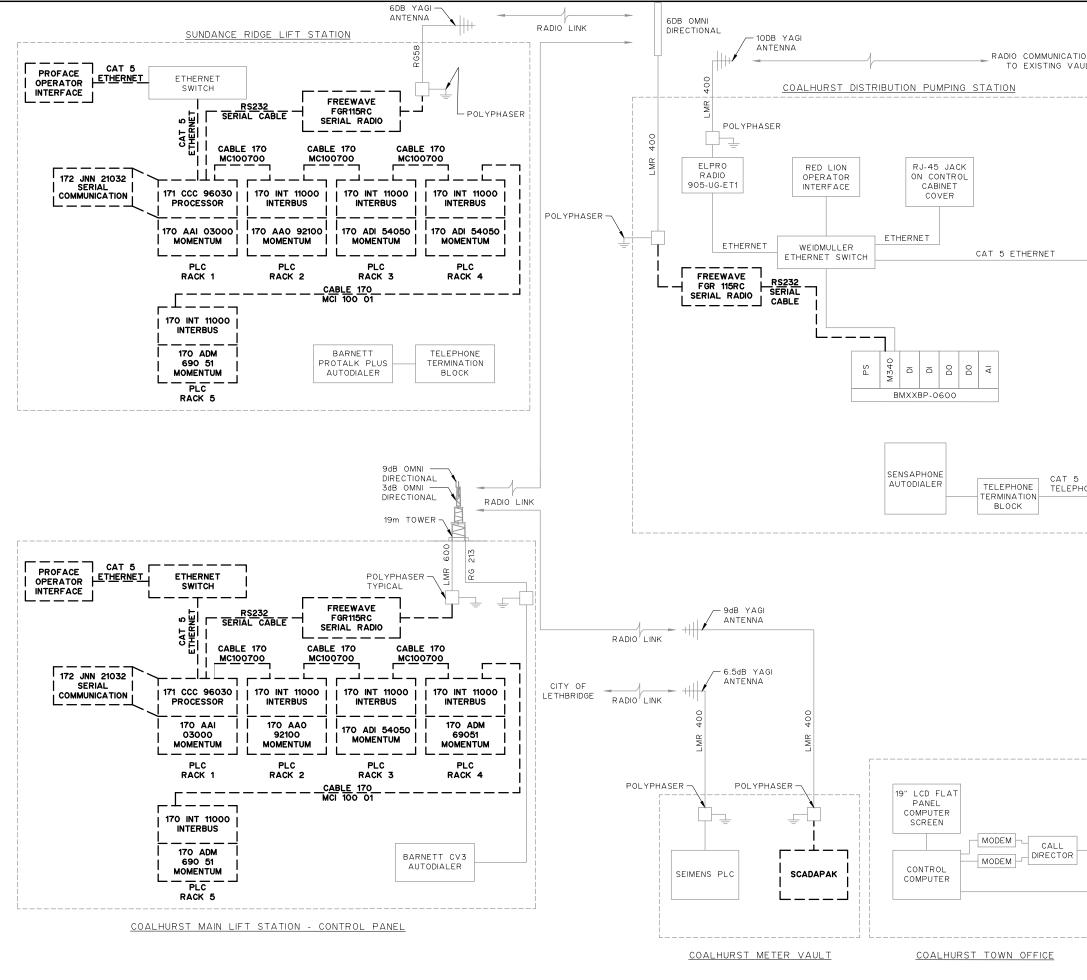




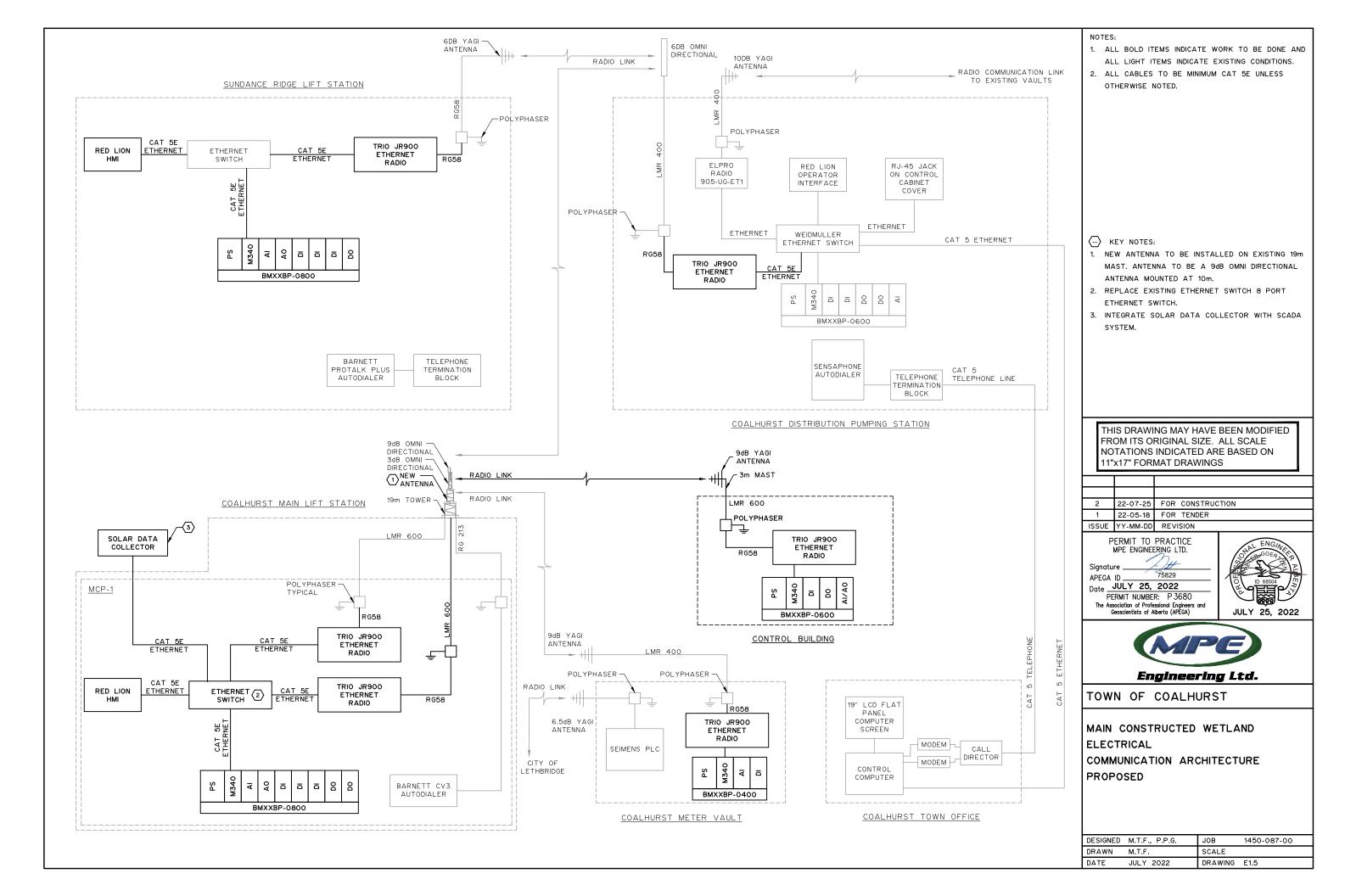
	<ol> <li>APPROXIMATE LOCAT</li> <li>INSTALLATION OF SET FORTIS SERVICE AND</li> <li>UNIT PRICE ARRANGED SOME BID ITEMS. REF "MEASUREMENT AND IN METHOD OF PAYMENT</li> <li>FIXTURE LEGEND:</li> </ol>	BLE SCHEDULE ON E1.10. IONS OF LIGHTING SHOWN. RVICE SHALL CONFORM TO METERING GUIDE AND CEC. MENT SHALL APPLY FOR ER TO SPECIFICATION 01280 PAYMENT SCHEDULE" FOR FOR ALL SCOPES OF WORK. IRE NUMBER IRE TYPE
	<ul> <li>ROADWAY.</li> <li>2. COORDINATE WITH FO AT BASE OF SELECT</li> <li>3. ALL INTERCONNECTION C-1 AND C-1 TO C-9 AND CONDUIT SCHEDUI</li> <li>4. ALL INTERCONNECTION C-10 AND C-10 TO C- CABLE AND CONDUIT</li> </ul>	IS BETWEEN LIGHTING JB TO TO BE TYPICAL. SEE CABLE LE E1.10. IS BETWEEN LIGHTING JB TO 16 TO BE TYPICAL. SEE
00	1 22-05-18 FOR TE ISSUE YY-MM-DD REVISIO	TED ARE BASED ON AWINGS
2	PERMIT TO PRACTIC MPE ENGINEERING LTD. Signature APEGA ID 75829 Date JULY 25, 2002 PERMIT NUMBER: P 368 The Association of Professional Engine Geoscientists of Alberta (APEGA	
× ×	Engine	PS ering Ltd.
	TOWN OF COAL	HURST
	MAIN CONSTRUCTE ELECTRICAL ELECTRICAL SITE	PLAN 1 OF 2
	DESIGNED M.T.F., P.P.G. DRAWN M.T.F.	JOB 1450-087-00 SCALE 1:2000
	DATE JULY 2022	DRAWING E1.2

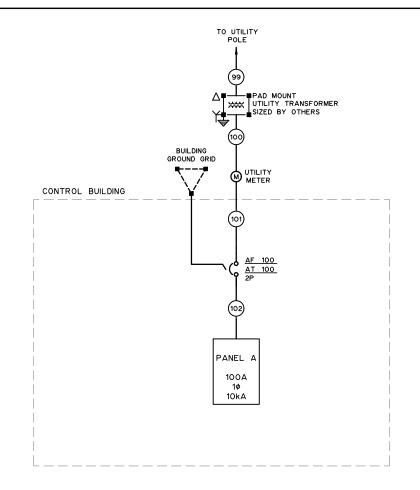


NOTES: 1. COORDINATE INSTALLATION OF SERVICE CONDUCT TRANSFORMER VAULT GROUNDING, AND EQUIPME							
<ul> <li>TRANSFORMER VAULT GROUNDING, AND EQUIPME CONNECTIONS WITH FORTIS.</li> <li>SERVICE SHALL ADHERE TO ALL FORTIS REQUIREMENTS INCLUDING FORTIS "SERVICE AND METERING GUIDE" AND "PRE-CAST BASE, GROUN AND DUCTING PROCESS.</li> <li>REFER TO DRAWING E1.2 FOR PATH LIGHTING.</li> <li>FIXTURE LEGEND:</li> <li>FIXTURE LEGEND:</li> <li>FIXTURE TYPE</li> <li>KEY NOTES:</li> <li>PROVIDE 2 15A WP, GFCI RECEPTACLES WITH IN-USE COVER AT PICNIC SHELTER. COORDINATE LOCATION ON SITE. CONTRACTOR TO SUPPLY AN INSTALL JUNCTION BOX WITH SPLITTER BLOCKS DROP FROM 6 AWG TO 12 AWG WIRE.</li> <li>SUPPLY AND INSTALL PRIMARY DUCT, PRECAST TRANSFORMER PAD AND TRANSFORMER GROUN SCONTRACTOR TO ROUTE CONDUIT FOR FUTURE ELECTRIC VEHICLE CHARGING STATION AND PICH SHELTER THROUGH PULL BOX.</li> <li>CONTRACTOR TO SUPPLY AND INSTALL PULL BOX BE A HUBBELL PG1118BA12 C/W COVER PG1118C OR EQUIVALENT.</li> <li>ALL INTERCONNECTIONS OF PARKING LOT LIGHT (A-1 TO A-7) TO BE TYPICAL. SEE CONDUIT AN CABLE SCHEDULE E1.10.</li> <li>THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS</li> </ul>	ENT ) DING, DING, AND 5 TO - DING. - NIC AOO TS D						
2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER							
1 22-05-18 FOR TENDER	R ALBERTY 22						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P 3680         The Association of Professional Engineers and       Image: Construction of Professional Engineers and	R ANDER						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P36800         The Association of Professional Engineers and Geoscientists of Alberta (APEGA)       JULY 25, 20	R ALBERT						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         Signature       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P 3680         The Association of Professional Engineers and Geoscientists of Alberta (APEGA)       JULY 25, 20	P. P. P. F.						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENCINEERING LTD.       Image: Constrained and the second and the seco	22						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENCINEERING LTD.       Image: Constrained and the second and the seco	R PLEFAX						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Image: Construction of the social tension of tensis tensis of tension of tensis tension of tension of t	R LL BERRY						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature       Image: Constraint of the social tension of the social tension of the social tension of Professional Engineers and Ceoscientists of Alberta (APEGA)       Image: Constraint of the tension of the social tension of the tension of tensin of tensin of tensin of tension of tension of tension of tensin	22 22						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Image: Construction of the social tension of tensis tensis of tension of tensis tension of tension of t	R HUBERT						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Image: Construction of the social tension of tensis tensis of tension of tensis tension of tension of t	P. P						
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P 36820         The Association of Professional Engineers and Geoscientists of Alberta (APEGA)       JULY 25, 20         -x       -x         x       x         x       x         x       x         x       x         x       x							
1       22-05-18       FOR TENDER         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Image: Construction of the social tension of tensis tensis of tension of tensis tension of tension of t							



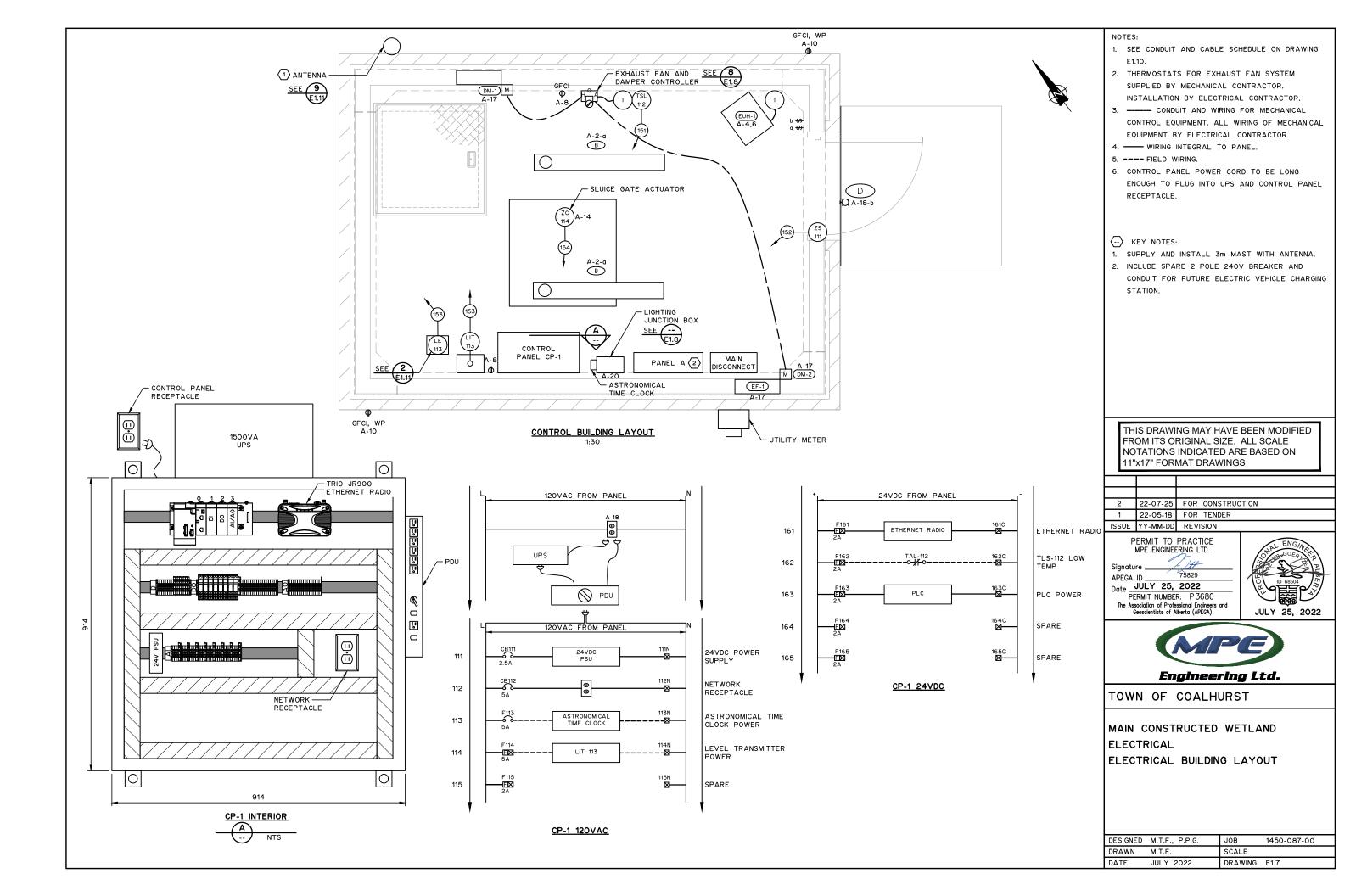
ION LINK ULTS	NOTES: 1. ALL BOLD ITEMS INDICATE WORK TO BE DONE AND ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS.
HONE LINE	THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS
	2 22-07-25 FOR CONSTRUCTION
	1         22-05-18         FOR         TENDER           ISSUE         YY-MM-DD         REVISION
	PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature APEGA ID 75829 Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022
5 ETHERNET	Engineering Ltd.
CAT 5 CAT 5	TOWN OF COALHURST
	MAIN CONSTRUCTED WETLAND ELECTRICAL COMMUNICATION ARCHITECTURE DEMOLITION
	DESIGNED         M.T.F.,         P.P.G.         JOB         1450-087-00           DRAWN         M.T.F.         SCALE           DATE         JULY 2022         DRAWING         E1.4
	DRAWING EL4

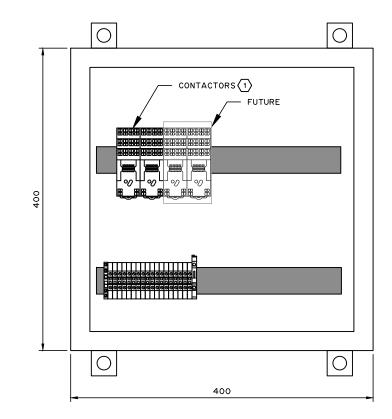


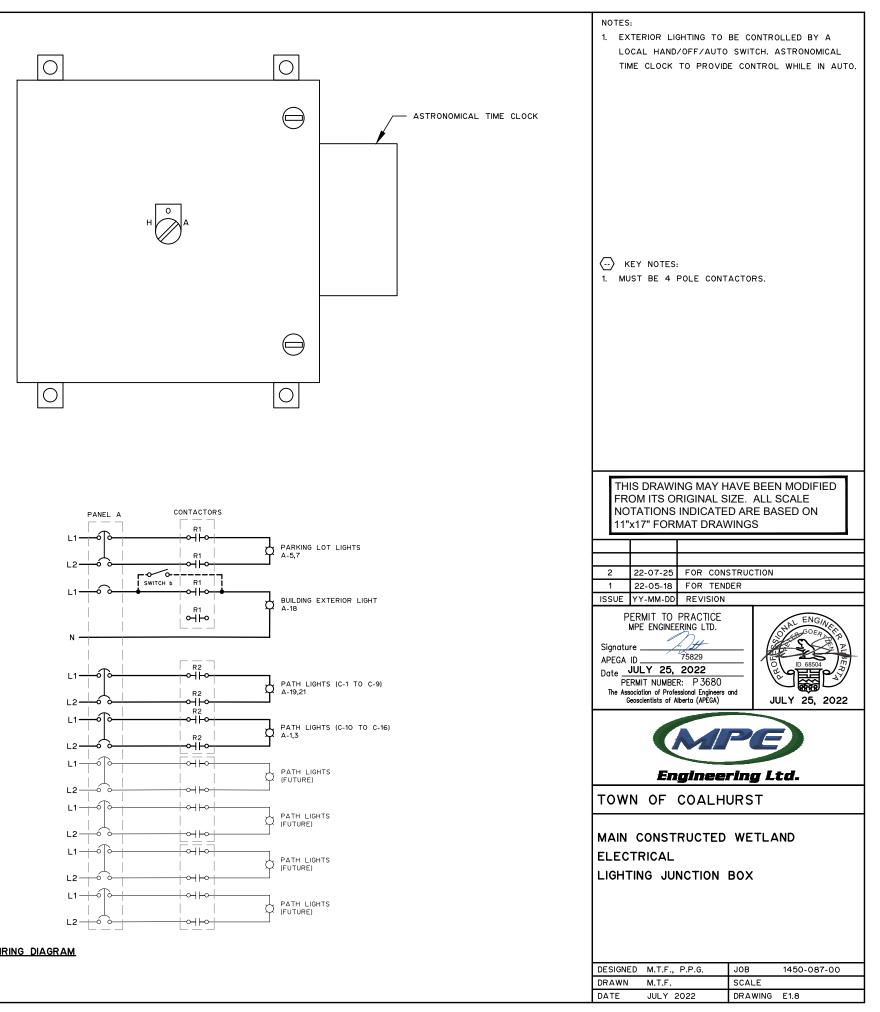


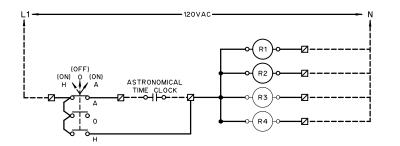
				PANEL: /				
					L BUILDI			-
	120/240VAC, 1PH, 3 WIRE, 100A							
DESCRIPTION	TRIP	POLES	BRK. NO.	PHASE	BRK. NO.	POLES		DESCRIPTION
PATH LIGHTING (C-10 TO C-16)	15	2	A-1	Α	A-2	1	15	INTERIOR LIGHTS
			A-3	в	A-4	2	30	ELECTRIC UNIT HEATER (EUH-1)
PARKING LOT LIGHTS	15	2	A-5	Α	A-6			
			A-7	В	A-8	1	15	INTERIOR RECEPTACLES
RV DUMP KIOSK AND LIGHTS	15	1	A-9	Α	A-10	1	15	EXTERIOR RECEPTACLES
SPARE	15	1	A-11	В	A-12	1	15	SPARE
EV CHARGER (FUTURE/SPARE)	60	2	A-13	Α	A-14	1	15	ACTUATOR POWER
			A-15	В	A-16	1	15	CONTROL PANEL POWER
EXHAUST FAN AND DAMPERS	15	1	A-17	Α	A-18	1	15	EXTERIOR LIGHT
PATH LIGHTING (C-1 TO C-9)	15	2	A-19	В	A-20	1	15	LIGHTING JUNCTION BOX
			A-21	Α	A-22			
PICNIC SITE 1	15	1	A-23	В	A-24			
PICNIC SITE 1	15	1	A-25	Α	A-26			
			A-27	В	A-28			
			A-29	Α	A-30			
			A-31	В	A-32			
			A-33	Α	A-34			
			A-35	В	A-36			
			A-37	Α	A-38			
			A-39	В	A-40			
	1	1	A-41	Δ	A-42	1		

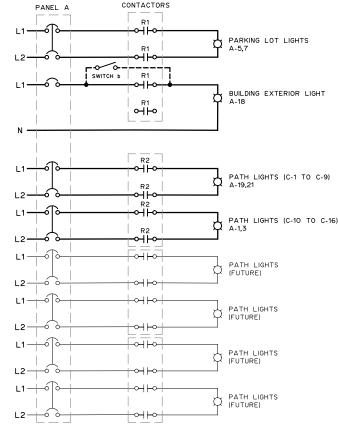
NOTES: 1. ALL BOLD ITEMS INDICATE WORK TO BE DONE AND ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS. 2. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS OTHERWISE INDICATED. THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS 2 22-07-25 FOR CONSTRUCTION 1 22-05-18 FOR TENDER ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. 1 Dtt Signature \_\_\_\_\_ 75829 APEGA ID\_ Date JULY 25, 2022 PERMIT NUMBER: P 3680 **.** The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022 TP Ē Engineering Ltd. TOWN OF COALHURST MAIN CONSTRUCTED WETLAND ELECTRICAL SINGLE LINE DIAGRAM DESIGNED M.T.F., P.P.G. JOB 1450-087-00 DRAWN M.T.F. SCALE DATE DRAWING E1.6 JULY 2022



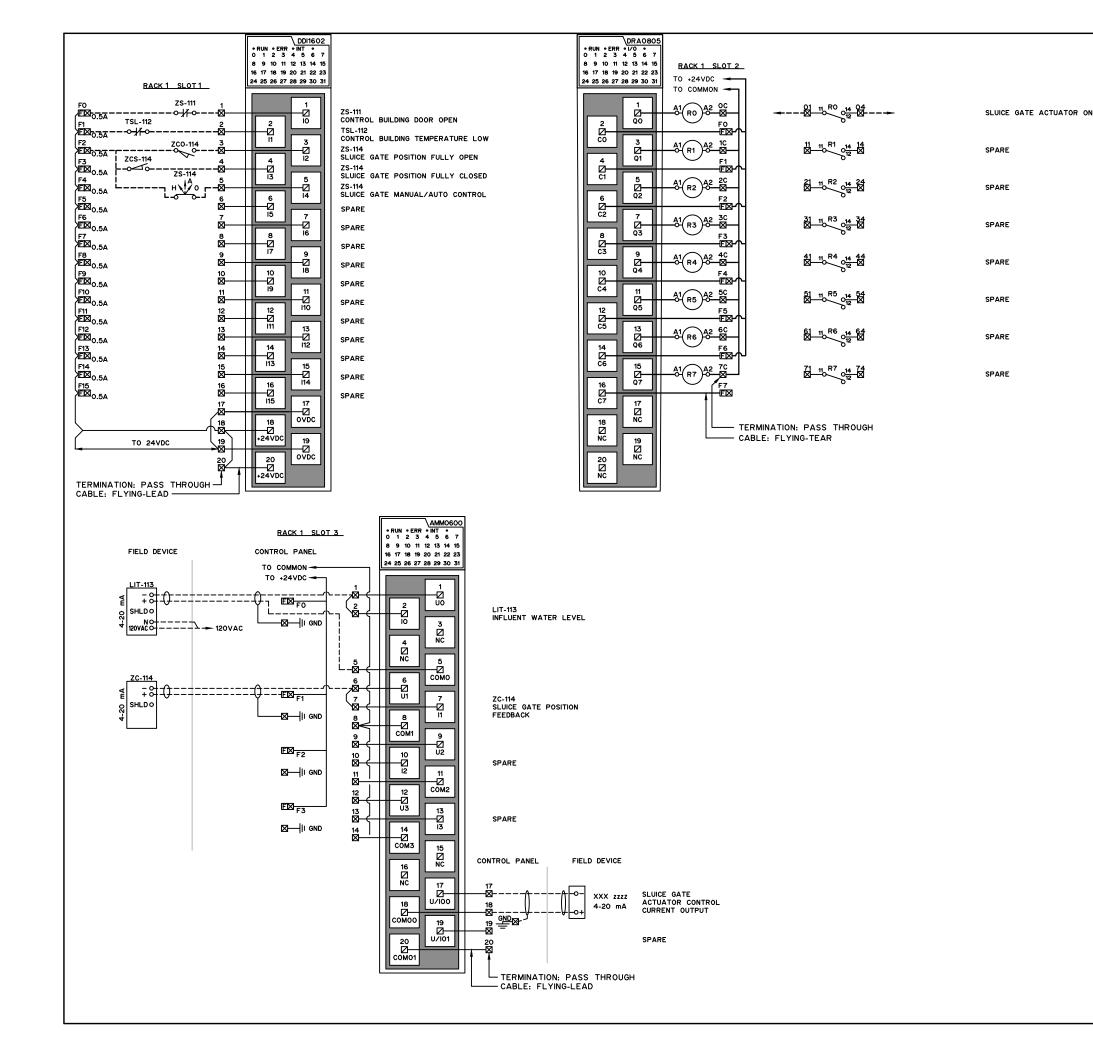


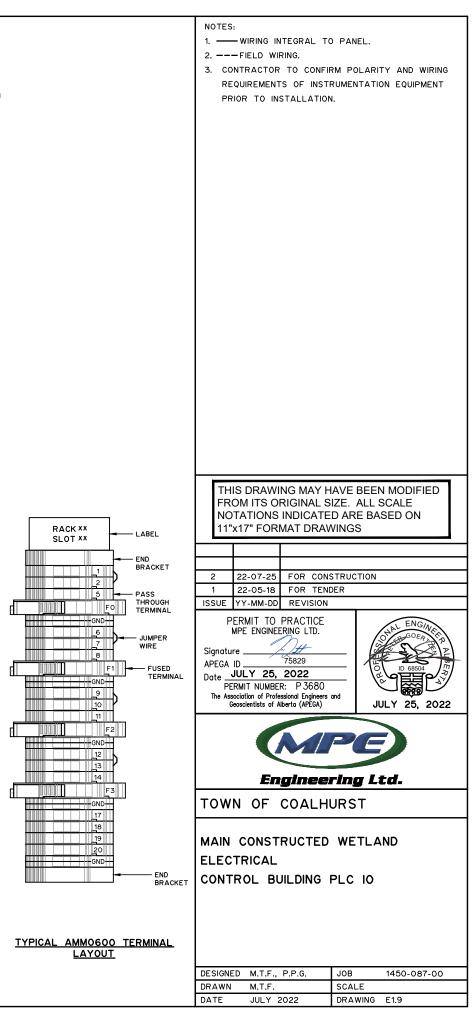






LIGHTING JUNCTION BOX WIRING DIAGRAM NTS



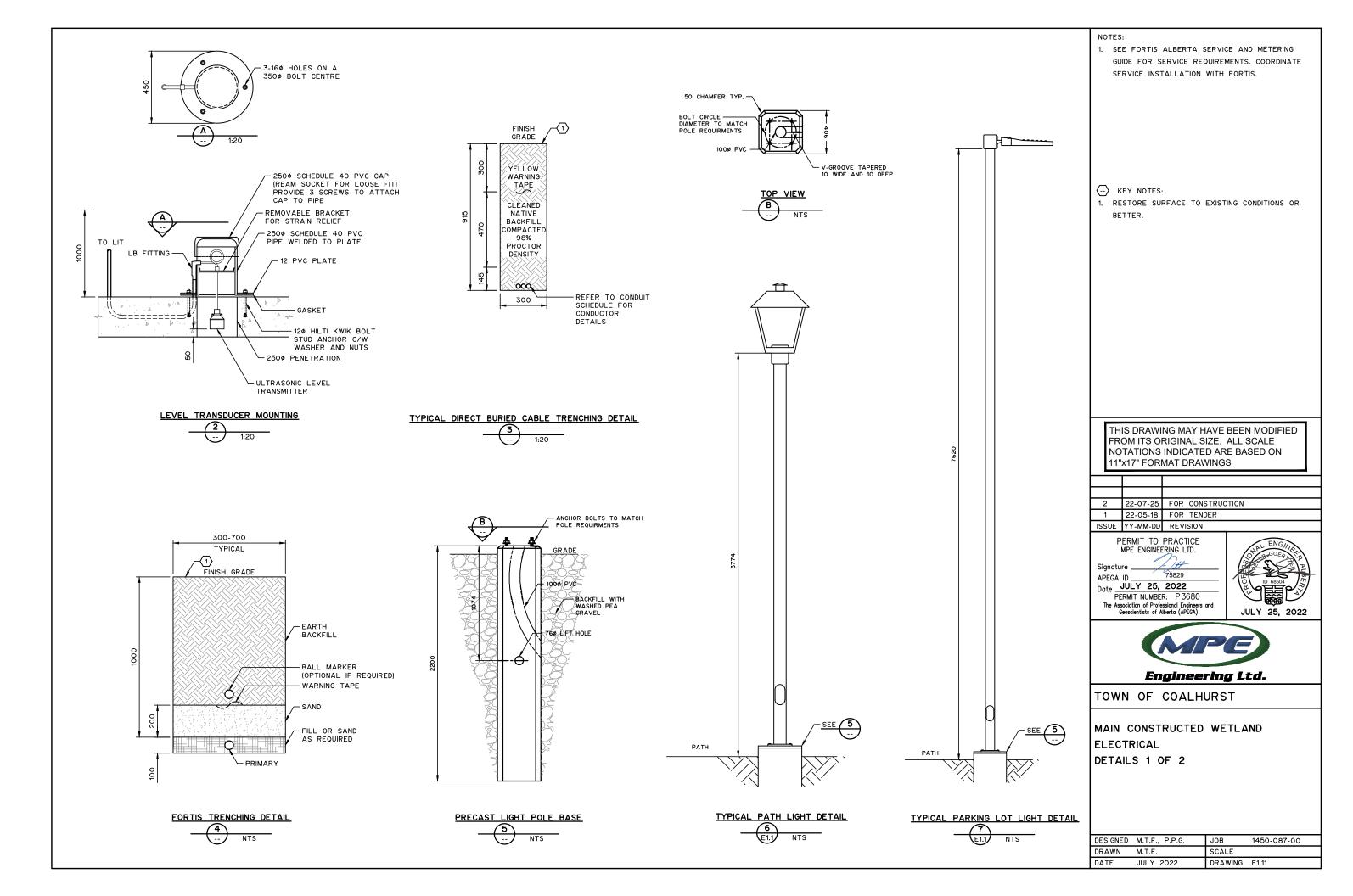


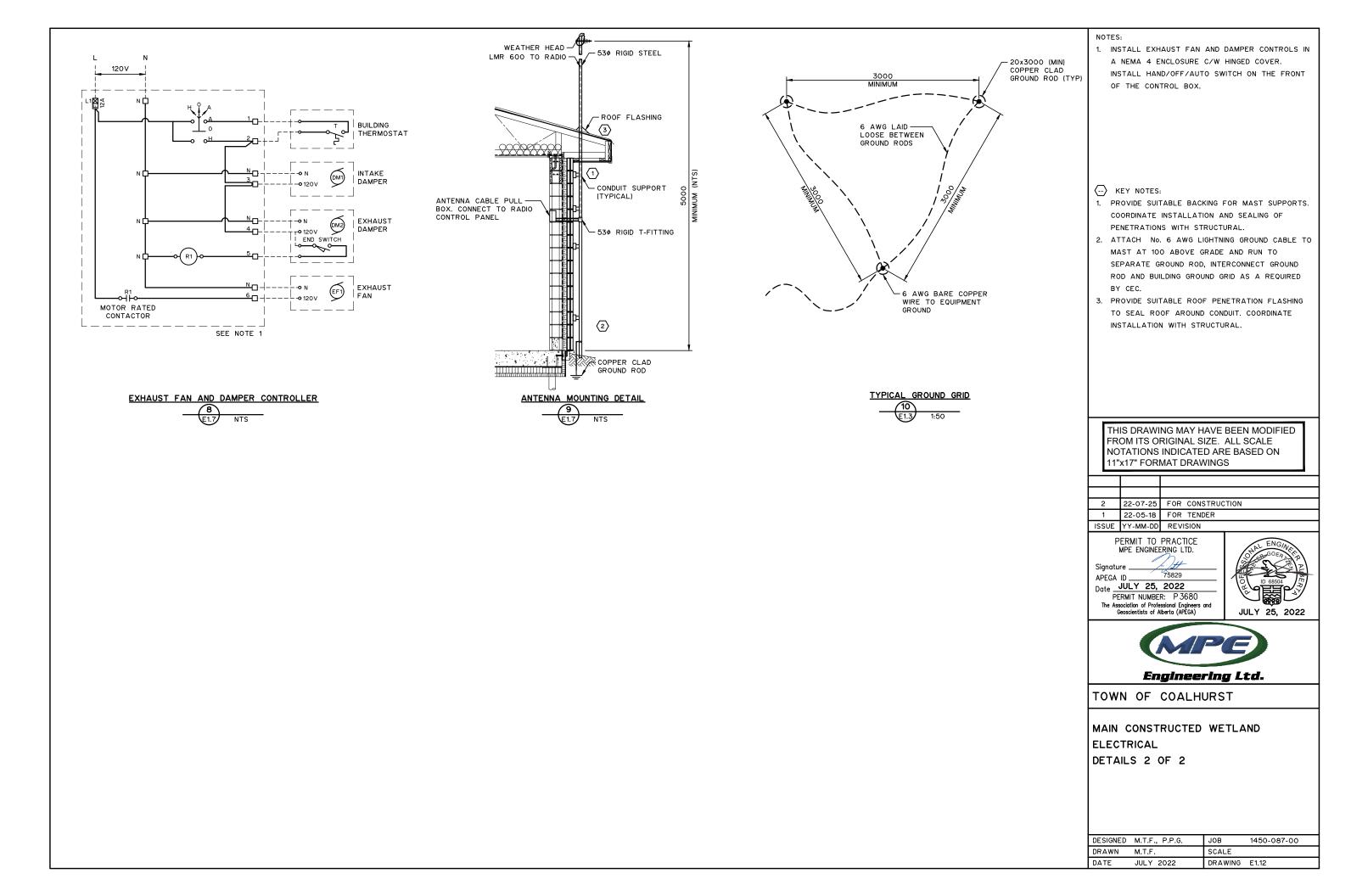
					CONDUIT AND CABLE SCHEDULE					
COND. No.	COND. TAG	DESCRIPTION	LOCATION	CONDUIT SIZE AND TYPE	TAG / FROM	то	WIRE TYPE	No. OF WIRES	WIRE SIZE	RE
99	Α	UTILITY POWER	UTILITY POWER POLE	1-103¢ DB2 DUCT	UTILITY POLE	TRANSFORMER				C/W PULL STR
100	Α	UTILITY POWER	UTILITY POWER POLE	1-53¢ RPVC	TRANSFORMER	UTILITY METER	RW90	3	3 AWG	120/240VAC 10
101	Α	UTILITY POWER	CONTROL BUILDING	1-53¢ RPVC	UTILITY METER	MAIN DISCONNECT	RW90	3	3 AWG	120/240VAC 10
102	Α	PANEL A	CONTROL BUILDING	1-53¢ RPVC	MAIN DISCONNECT	PANEL A	RW90	3	3 AWG	120/240VAC 10
103	Α	GROUND GRID	CONTROL BUILDING	1-21Ø RPVC	GROUND GRID	MAIN DISCONNECT	BARE	1	6 AWG	3 - 3m COPPER
130	А	PICNIC SHELTER	WETLAND SOUTH POND	1-27¢ RPVC	PANEL A	PICNIC SHELTER 1	RW90	3	6 AWG	TWO CIRCUITS
131	Α	PATH LIGHTS	WETLAND SOUTH POND		LIGHTING JUNCTION BOX	PATH LIGHTS	TECK90	2	8 AWG	LIGHTING JB TO
132	А	PATH LIGHTS	WETLAND SOUTH POND		LIGHTING JUNCTION BOX	PATH LIGHTS	TECK90	2	12 AWG	LIGHTING JB TO
140	А	EV CHARGER (FUTURE)	WETLAND PARKING LOT	1-27¢ RPVC	PANEL A	PARKING LOT				FUTURE EV CHA
141	Α	PARKING LOT LIGHTS	WETLAND PARKING LOT	1-27¢ RPVC	LIGHTING JUNCTION BOX	PARKING LOT	RW90	2	12 AWG	
110	Α			1-27¢ RPVC	PANEL A	PARKING LOT	RW90	2	12 AWG	240VAC POWER
142	В	RV DUMP KIOSK	WETLAND PARKING LOT	1-270 RPVC	CP-1	PARKING LOT				120VAC CONTRO
151	А	BUILDING LOW TEMPERATURE	CONTROL BUILDING	1-21Ø RPVC	CP-1	TSL-112	RW90	2	14 AWG	24VDC STATUS
152	Α	DOOR SENSOR	CONTROL BUILDING	1-21Ø RPVC	CP-1	ZS-111	RW90	3	14 AWG	24VDC POWER
	А			1-21¢ RPVC		LE-113	PRE-MANU	FACTURED	CABLE	
153	В	LEVEL INDICATING TRANSMITTER	CONTROL BUILDING	1-21¢ RPVC	LIT-113	CP-1	RW90	2	14 AWG	120VAC POWER
	с			1-21Ø RPVC		CP-1	BELDEN	1-PAIR	18 AWG	ANALOG STATUS
	Α			1-210 RPVC			BEDLEN	2-PAIR	18 AWG	ANALOG STATU
154	в	SLUICE GATE ACTUATOR	CONTROL BUILDING	1-21¢ RPVC	ZC-114	CP-1	RW90	5	14 AWG	DISCRETE STAT
	с	1		1-210 RPVC	1		RW90	2	14 AWG	120V ACTUATOR

	MECHANICAL SCHEDULE											
TAG	DESCRIPTION	LOCATION	LOAD	VOLTAGE	PHASE	FEEDER	STARTER	CCT BRK (AMPS)	CCT NO.	CONTROL	INTERLOCKS	REMAR
EUH-1	ELECTRIC UNIT HEATER	CONTROL BUILDING	4KW	240	1	2C 10AWG	N/A	2P30	A-4,6	T-STAT	NONE	
EF-1	EXHAUST FAN	CONTROL BUILDING	50W	120	1	2C 12AWG	N/A	1P15	A-17	T-STAT	NONE	
DM-1	DAMPER 1	CONTROL BUILDING		120					A-17			
DM-2	DAMPER 2	CONTROL BUILDING		120					A-17			

LUMINAIRE SCHEDULE									
TYPI	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	LUMENS	LAMP TYPE	COLOR TEMP	MOUNTING	REMARKS
Α	PARKING LOT LIGHTS	GE CURRENT	EALS030F4AF7440DDD1BLCK	240V	15000 lm	LED	4000 K	POLE	PARKING LOT LIGHTS MOUNTED AT 25',
В	INDUSTRIAL STRIP LIGHT	COLUMBIA	MPS4-40ML-CW-EDU	120V	4556 lm	LED	4000 K	SURFACE	
С	PATH LIGHTS	GE CURRENT	EPTT01007DA40APBLCKL	240V	6880 lm	LED	4000 K	POLE	PATH LIGHTS MOUNTED AT 12', DARK B
D	EXTERIOR WALL CUBE	COLUMBIA	CWM2-40VWSM-FRFP-EDU	120V	1660 lm	LED	3500 K	WALL	MOUNT AT 2500 A.F.F.

REMARKS STRING 100A 100A 100A PER GROUND RODS TS TO C-10 TO C-16 TO C-1 TO C-9 CHARGING STATION	<ul> <li>NOTES:</li> <li>1. CONCEAL ALL CONDUITS IN WALLS, FLOOR SLAB, OR CEILING WHEN POSSIBLE. EXPOSED CONDUIT LEAVING SURFACE MOUNTED ENCLOSURES OR EQUIPMENT SHALL RUN VERTICALLY INTO FLOOR SLAB OR CEILING SPACE.</li> <li>2. RUN CONDUITS IN SLAB TO INSTRUMENTATION LOCATED IN CENTRE OF FLOOR PLAN.</li> <li>3. ALL FIELD WIRING TO BE INSTALLED IN CONDUIT UNLESS OTHERWISE SPECIFIED.</li> </ul>
WER TROL C/W PULLSTRING TUS ER AND STATUS	
VER	
ATUS AND CONTROL	
MARKS	THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE
	NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS
	2     22-07-25     FOR CONSTRUCTION       1     22-05-18     FOR TENDER       ISSUE     YY-MM-DD     REVISION
25', DARK BRONZE K BRONZE	PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature APEGA ID Date JULY 25, 2022 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) JULY 25, 2022
	MPE
	<b>Engineering Ltd.</b> TOWN OF COALHURST
	MAIN CONSTRUCTED WETLAND ELECTRICAL SCHEDULES
	DESIGNED M.T.F., P.P.G. JOB 1450-087-00 DRAWN M.T.F. SCALE DATE JULY 2022 DRAWING E1.10



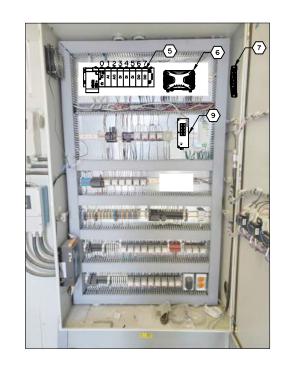




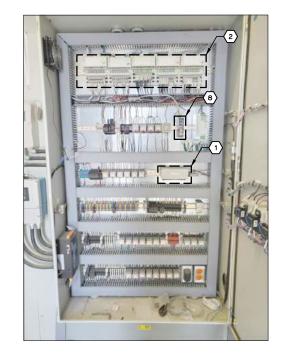
MAIN LIFT STATION CONTROL PANEL EXTERIOR DEMOLITION



MAIN LIFT STATION CONTROL PANEL EXTERIOR PROPOSED

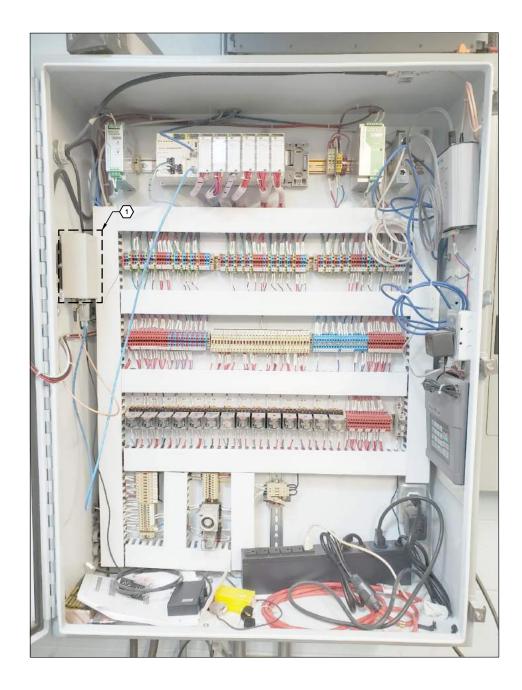


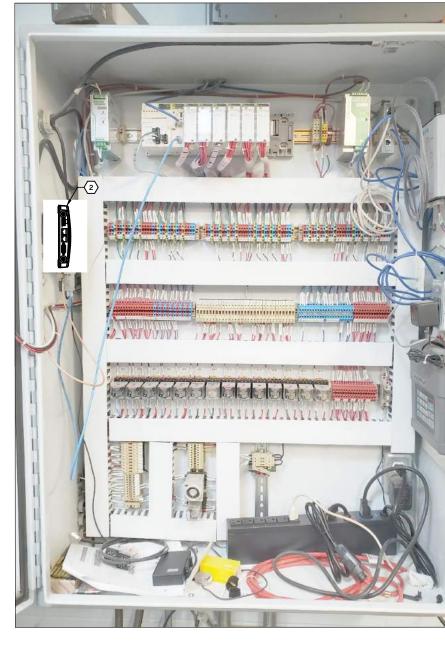
MAIN LIFT STATION CONTROL PANEL INTERIOR PROPOSED NTS



MAIN LIFT STATION CONTROL PANEL INTERIOR DEMOLITION NTS

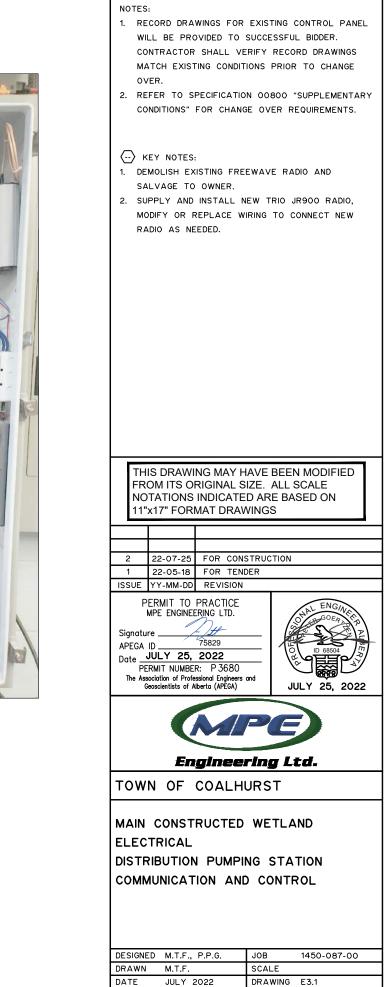
NOTES:						
1. RECORD DRAWINGS FOR EXISTING CONTROL PANEL						
WILL BE PROVIDED TO SUCCESSFUL BIDDER.						
CONTRACTOR SHALL VERIFY RECORD DRAWINGS						
MATCH EXISTING CONDITIONS PRIOR TO CHANGE						
OVER. I/O LIST WITH ASSIGNMENTS FOR CONNECTING						
TO NEW MODULES WILL BE PROVIDED.						
2. FOLLOWING PLC REPLACEMENT ASSIST WITH						
TESTING PLC AND ALL CONNECTED DEVICES.						
> KEY NOTES:						
1. DEMOLISH EXISTING FRE	EWAVE RADIO AND SALVAGE					
TO OWNER.						
2. DEMOLISH EXISTING PLC AND SALVAGE TO OWNER.						
3. DEMOLISH EXISTING HMI AND SALVAGE TO OWNER.						
4. SUPPLY AND INSTALL F	RED LION G310R210 HMI IN					
	OPENING TO ACCOMMODATE					
EQUIPMENT AS REQUIRE	D.					
5. SUPPLY AND INSTALL M	NEW M340 PLC. REFER TO					
	OR PLC CARD NUMBERS.					
	N CONTROL PANEL FROM PLC					
TO FIRST TERMINAL AS	S NEEDED, AND LABEL NEW					
WIRING TO MATCH EXIS	TING.					
	NEW TRIO JR900 RADIO.					
	VIRING TO CONNECT TO NEW					
RADIO AS NEEDED.						
7. SUPPLY AND INSTALL M	NEW TRIO JR900 RADIO.					
8. DEMOLISH EXISTING 4 F	ORT ETHERNET SWITCH AND					
	SAL ETHERNET SWITCH AND					
SALVAGE TO OWNER.						
9. SUPPLY AND INSTALL N	NEW 8 PORT ETHERNET					
SWITCH. REPLACE WIRIN	NG WITHIN CONTROL PANEL					
AS NEEDED.						
	AVE BEEN MODIFIED					
	FROM ITS ORIGINAL SIZE. ALL SCALE					
NOTATIONS INDICATED ARE BASED ON						
11"x17" FORMAT DRAV						
11"x17" FORMAT DRAV	WINGS					
11"x17" FORMAT DRAV	STRUCTION					
11"x17" FORMAT DRAV	STRUCTION					
11"x17" FORMAT DRAV	STRUCTION					
11"x17" FORMAT DRAV           2         22-07-25         FOR CON           1         22-05-18         FOR TEN           ISSUE         YY-MM-DD         REVISION	STRUCTION DER					
2 22-07-25 FOR CON 1 22-05-18 FOR TEN ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE	STRUCTION					
11"x17" FORMAT DRAV           2         22-07-25         FOR CON           1         22-05-18         FOR TEN           ISSUE         YY-MM-DD         REVISION	STRUCTION DER					
2 22-07-25 FOR CON 2 22-07-25 FOR CON 1 22-05-18 FOR TEN ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD. Signature	STRUCTION DER					
2 22-07-25 FOR CON 1 22-05-18 FOR TEN ISSUE YY-MM-DD REVISION PERMIT TO PRACTICE MPE ENGINEERING LTD.	MINGS					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         75829       75829	STRUCTION DER					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829	MINGS					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers	MINGS					
11"x17" FORMAT DRAV         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER:         P3680	MINGS					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers	MINGS					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers	MINGS					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers	MINGS					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers	MINGS					
11"x17" FORMAT DRAV         2       22-07-25       FOR CON         1       22-05-18       FOR TEN         ISSUE       YY-MM-DD       REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers	MINGS					
11"x17" FORMAT DRAV         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         ISSUE       YY-MM-DD         REVISION       PERMIT TO PRACTICE         MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers Geoscientists of Alberta (APEGA)	MINGS					
11"x17" FORMAT DRAV         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER: P 3680         The Association of Professional Engineers Geoscientists of Alberta (APEGA)	MINGS					
11"x17" FORMAT DRAV         2       22-07-25         1       22-05-18         ISSUE       YY-MM-DD         ISSUE       YY-MM-DD         REVISION       PERMIT TO PRACTICE         MPE ENGINEERING LTD.       Signature         APEGA ID       75829         Date       JULY 25, 2022         PERMIT NUMBER:       P3680         The Association of Professional Engineers Geoscientists of Alberta (APEGA)	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV         2       22-07-25         1       22-07-25         FOR TEN         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER:         P3680         The Association of Professional Engineers         Geoscientists of Alberto (APEGA)         Engineer         TOWN OF COALH	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV         2       22-07-25         1       22-07-25         FOR TEN         ISSUE       YY-MM-DD         REVISION         PERMIT TO PRACTICE         MPE ENGINEERING LTD.         Signature         APEGA ID         75829         Date         JULY 25, 2022         PERMIT NUMBER:         P3680         The Association of Professional Engineers         Geoscientists of Alberto (APEGA)         Engineer         TOWN OF COALH	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV	MINGS					
11"x17" FORMAT DRAV     1     11"x17" FORMAT DRAV     2     22-07-25 FOR CON     1 22-05-18 FOR TEN     ISSUE YY-MM-DD REVISION     PERMIT TO PRACTICE     MPE ENGINEERING LTD.     Signature	MINGS STRUCTION DER and JULY 25, 2022 DEF ING LEC. URST WETLAND COMMUNICATION JOB 1450-087-00					
11"x17" FORMAT DRAV	MINGS					





DISTRIBUTION PUMPING STATION CONTROL PANEL INTERIOR PROPOSED

DISTRIBUTION PUMPING STATION CONTROL PANEL INTERIOR DEMOLITION







SUNDANCE RIDGE LIFT STATION CONTROL PANEL EXTERIOR DEMOLITION

SUNDANCE RIDGE LIFT STATION CONTROL PANEL EXTERIOR PROPOSED

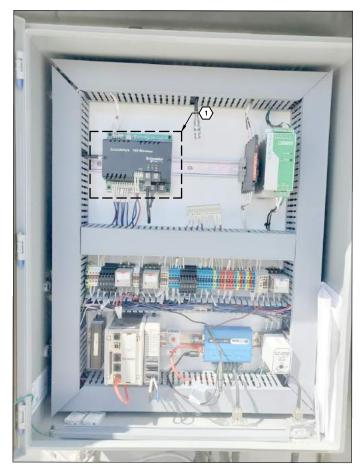


SUNDANCE RIDGE LIFT STATION CONTROL PANEL INTERIOR DEMOLITION NTS

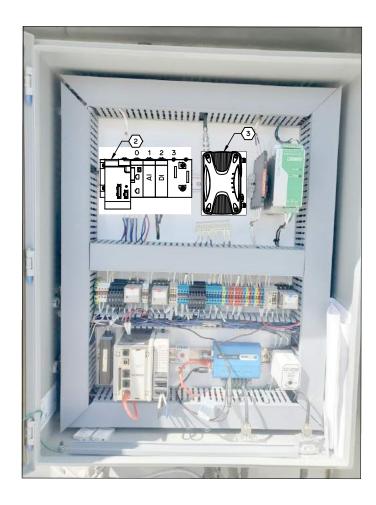


SUNDANCE RIDGE LIFT STATION CONTROL PANEL INTERIOR PROPOSED

NOTES:							
1. RECORD DRAWINGS OR IO LIST FOR EXISTING							
CONTROL PANEL WILL E	BE PROVIDED TO						
SUCCESSFUL BIDDER. CONTRACTOR SHALL VERIFY							
RECORD DRAWINGS MAT	RECORD DRAWINGS MATCH EXISTING CONDITIONS						
PRIOR TO CHANGE OVER. I/O LIST WITH							
ASSIGNMENTS FOR CONNECTING TO NEW MODULES							
WILL BE PROVIDED.							
	2. FOLLOWING PLC REPLACEMENT ASSIST WITH						
TESTING PLC AND ALL CONNECTED DEVICES.							
3. REFER TO SPECIFICATION 00800 "SUPPLEMENTARY							
CONDITIONS FOR CHANG	CONDITIONS" FOR CHANGE OVER REQUIREMENTS.						
() KEY NOTES:							
1. DEMOLISH EXISTING FREEWAVE RADIO AND							
SALVAGE TO OWNER.							
	AND SALVAGE TO OWNER.						
	AND SALVAGE TO OWNER.						
	ED LION G310R210 HMI IN						
	OPENING TO ACCOMMODATE						
EQUIPMENT AS REQUIRE							
	EW M340 PLC. REFER TO						
SPECIFICATION 13317 FO							
	CONTROL PANEL FROM						
	L AS NEEDED, AND LABEL						
NEW WIRING TO MATCH							
6. SUPPLY AND INSTALL N							
MODIFY OR REPLACE W	RING TO CONNECT TO NEW						
RADIO AS NEEDED.							
THIS DRAWING MAY H	-						
FROM ITS ORIGINAL S							
NOTATIONS INDICATE 11"x17" FORMAT DRAV							
TT XT7 FORMAT DRAV	11103						
2 22-07-25 FOR CONS	STRUCTION						
1 22-05-18 FOR TEN	DER						
ISSUE YY-MM-DD REVISION							
PERMIT TO PRACTICE	LAL ENGINA						
MPE ENGINEERING LTD.	SHAL GOER HE						
Signature							
APEGA ID							
Date JULY 25, 2022							
PERMIT NUMBER: P 3680							
The Association of Professional Engineers Geoscientists of Alberta (APEGA)	JULY 25, 2022						
	-ej						
Engineering Ltd.							
TOWN OF COALHURST							
<u> </u>							
MAIN CONSTRUCTED WETLAND							
ELECTRICAL							
SUNDANCE RIDGE COMMUNICATION AND							
CONTROL							
DESIGNED M.T.F., P.P.G.	JOB 1450-087-00						
DESIGNED M.T.F., P.P.G. DRAWN M.T.F. DATE JULY 2022	JOB 1450-087-00 SCALE DRAWING E4.1						



METER VAULT CONTROL PANEL INTERIOR DEMOLITION NTS



METER VAULT CONTROL PANEL INTERIOR PROPOSED

<ol> <li>NOTES:</li> <li>RECORD DRAWINGS OR IO LIST FOR EXISTING CONTROL PANEL WILL BE PROVIDED TO SUCCESSFUL BIDDER. CONTRACTOR SHALL VERIFY RECORD DRAWINGS MATCH EXISTING CONDITIONS PRIOR TO CHANGE OVER. I/O LIST WITH ASSIGNMENTS FOR CONNECTING TO NEW MODULES WILL BE PROVIDED.</li> <li>FOLLOWING PLC REPLACEMENT ASSIST WITH TESTING PLC AND ALL CONNECTED DEVICES.</li> <li>REFER TO SPECIFICATION 00800 "SUPPLEMENTARY CONDITIONS" FOR CHANGE OVER REQUIREMENTS.</li> </ol>					
<ul> <li>KEY NOTES:</li> <li>DEMOLISH EXISTING SCADA PACK AND SALVAGE TO OWNER.</li> <li>SUPPLY AND INSTALL NEW M340 PLC. REFER TO SPECIFCATION 13317 FOR PLC CARD NUMBERS. REPLACE WIRING WITHIN CONTROL PANEL FROM PLC TO FIRST TERMINAL AS NEEDED, AND LABEL NEW WIRING TO MATCH EXISTING.</li> <li>SUPPLY AND INSTALL NEW TRIO JR900 RADIO, MODIFY OR REPLACE WIRING TO CONNECT TO NEW RADIO AS NEEDED.</li> </ul>					
THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS					
2	22-07-25	FOR CON	STRUC	TION	
1	22-05-18	FOR TEN	DER		
ISSUE	YY-MM-DD	REVISION			
Signatur APEGA Date <u></u> PE The Ass	ID JULY 25, RMIT NUMBE	ERING LTD. 75829 2022 R: P 3680 essional Engineers	 and	JULY 25, 2022	
Engineering Ltd.					
TOWN OF COALHURST					
MAIN CONSTRUCTED WETLAND ELECTRICAL METER VAULT COMMUNICATION					
DESIGNE	D M.T.F.,	P.P.G.	JOB	1450-087-00	
DRAWN	M.T.F.		SCAI	_E	
DATE	JULY	2022	DRA	WING E5.1	