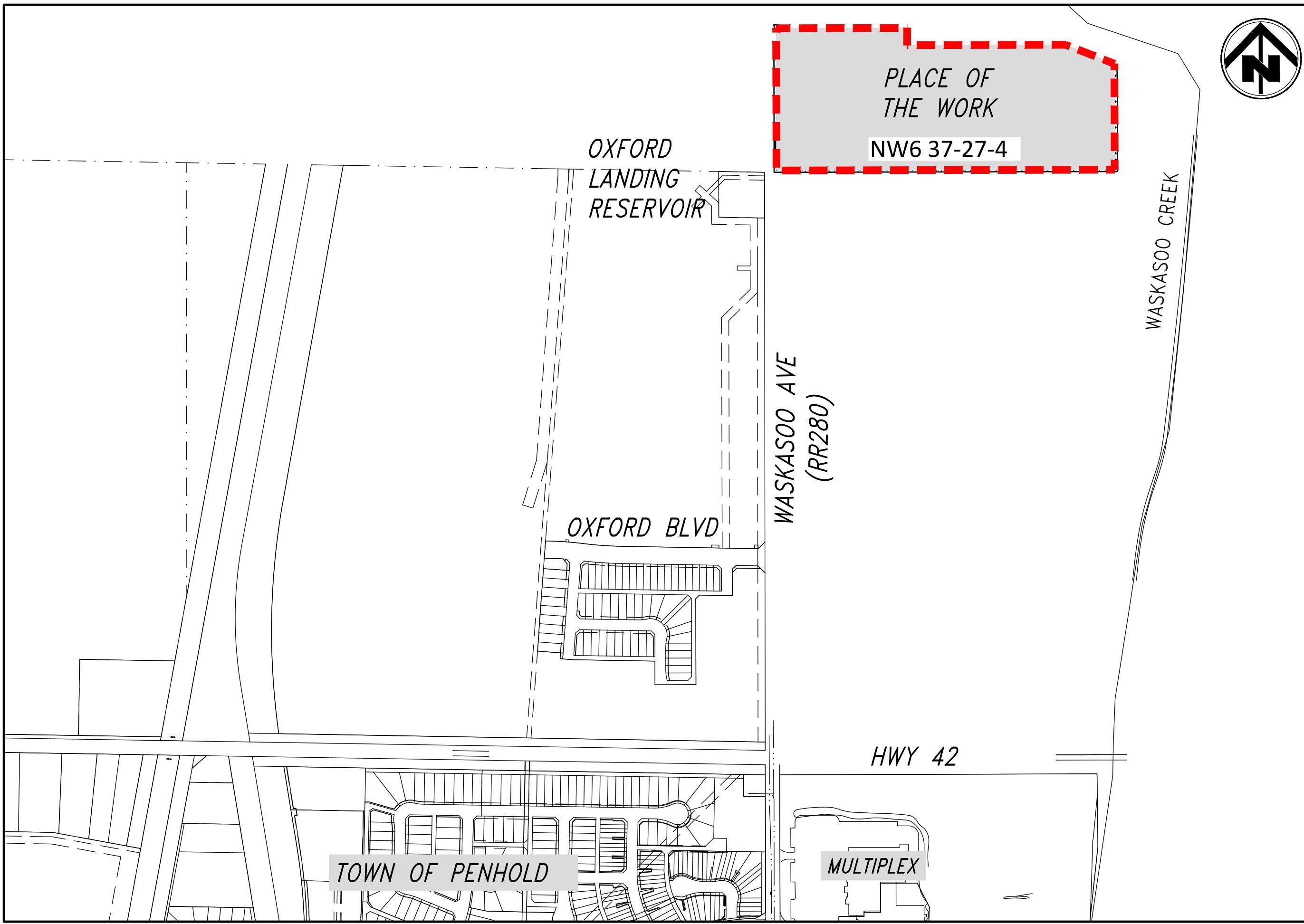


PUBLIC WORKS LOT GRADING



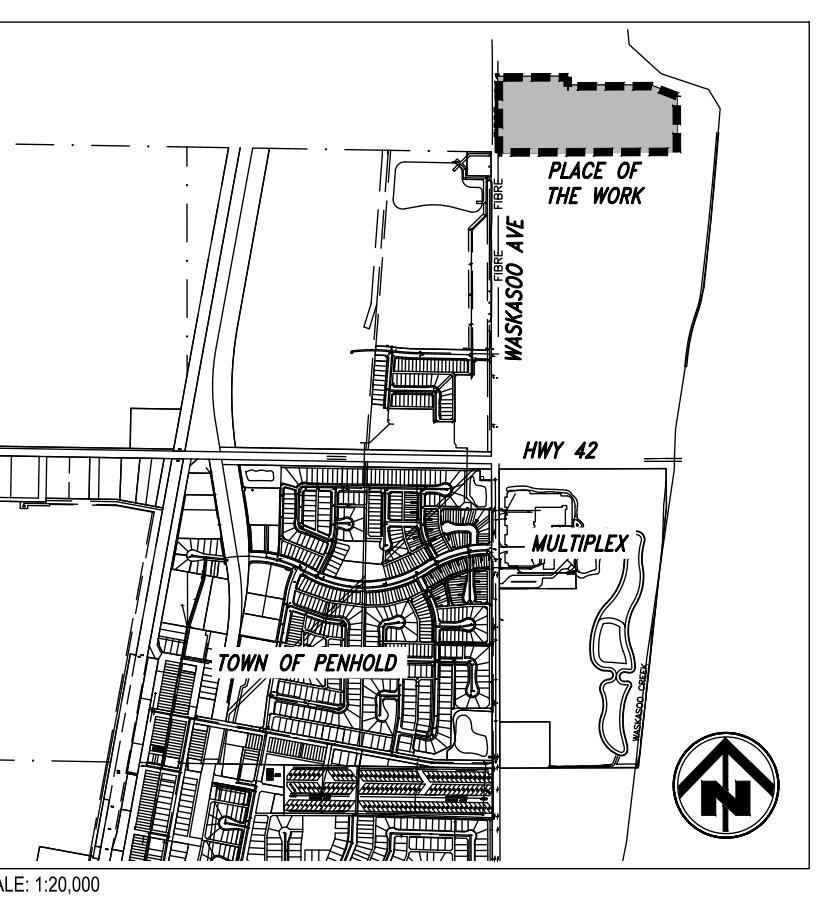
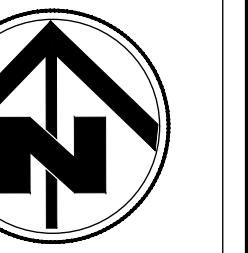
TPN46

PLACE OF WORK



DRAWING LIST

SHEET	TITLE
	COVER
C-1	EXISTING SITE CONDITIONS
C-2	CUT/FILL PLAN
C-3	CUT/FILL CONTOUR PLAN
C-4	DESIGN GRADE PLAN
P-1	ACCESS ROAD PLAN / PROFILE
P-2	SECTION PROFILES
D-1	DRAINAGE DITCH PROFILE & MISCELLANEOUS DETAILS



TAGISH
ENGINEERING

#104, 230 LAKE STREET | RED DEER COUNTY AB T4E 1B9 | 403.346.7710

www.tagish-engineering.com

LEGEND

EXISTING	PROPOSED
BLOCK PROPERTY LINE /W PI	
LOT PROPERTY LINE /W PI	
RIGHT OF WAY	
MAJOR ELEVATION CONTOURS	900.000
MINOR ELEVATION CONTOURS	900.000
MONOWALK /W PARAMP	(LOG) (BOW) (BOC)
CURB & GUTTER W/ DROP	EQA
EDGE OF ASPHALT SURFACE	EQB
EDGE OF GRAVEL SURFACE	EQC
CENTERLINE W/ FLOW & PI	EQD
LIGHT STANDARD	
POWERPOLE W/ ANCHOR	
FENCELINE	
STD 1200 DIA. MANHOLE (TYPE 5A)	
CATCH BASIN MANHOLE (STD)	
CATCH BASIN MANHOLE (ROLLED FACE)	
CATCH BASIN (TRASH GRATE)	
CATCH BASIN (STRAIGHT FACE)	
CATCH BASIN (ROLLED FACE)	
CATCH BASIN (TRASH GRATE)	
INLET OR OUTFALL STRUCTURE	
STORM WATER CULVERT	
STORM MAIN W/ FLOW & MH	
SANITARY MAIN W/ FLOW & MH	
SEWER VERT. DEF'L & PLUG	
WATER SERVICE CUBE COCK	
WATER HYDRANT	
WATER VALVE	
WATER MAIN /W REDUCER & TEE	
CABLE SURFACE PEDESTAL	
CABLE MAIN LINE	
PHONE SURFACE PEDESTAL	
TELUS MAIN LINE	
POWER SURFACE TRANSFORMER	
POWER MAIN LINE	
GAS MAIN LINE	
TESTHOLE LOCATION & ELEVATION	
CONSTRUCTION BOUNDARY	
E ---	---
D REISSUED FOR CONSTRUCTION	11MAY2022 NG NG JP
C ISSUED FOR CONSTRUCTION	03MAR2022 NG CK/AW JP
B ISSUED FOR TENDER	07FEB2022 AW CK/AW JP
A ISSUED FOR REVIEW	01FEB2022 NG CK/AW JP
REV DESCRIPTION	DATE DRAWN DESIGN APPROV'D
SEAL - PERMIT	
PROFESSIONAL ENGINEER'S SIGNATURE	
PATRICK JARRED	
PERMIT TO PRACTICE	
TAGISH ENGINEERING LTD.	
PM SIGNATURE: #33596	
PM APEGA ID: #33596	
DATE ISSUED: May 11, 2022	
PERMIT NUMBER: P3686	
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)	

CLIENT

Penhold

PROJECT

PUBLIC WORKS LOT GRADING

TITLE

EXISTING SITE CONDITIONS

DATE

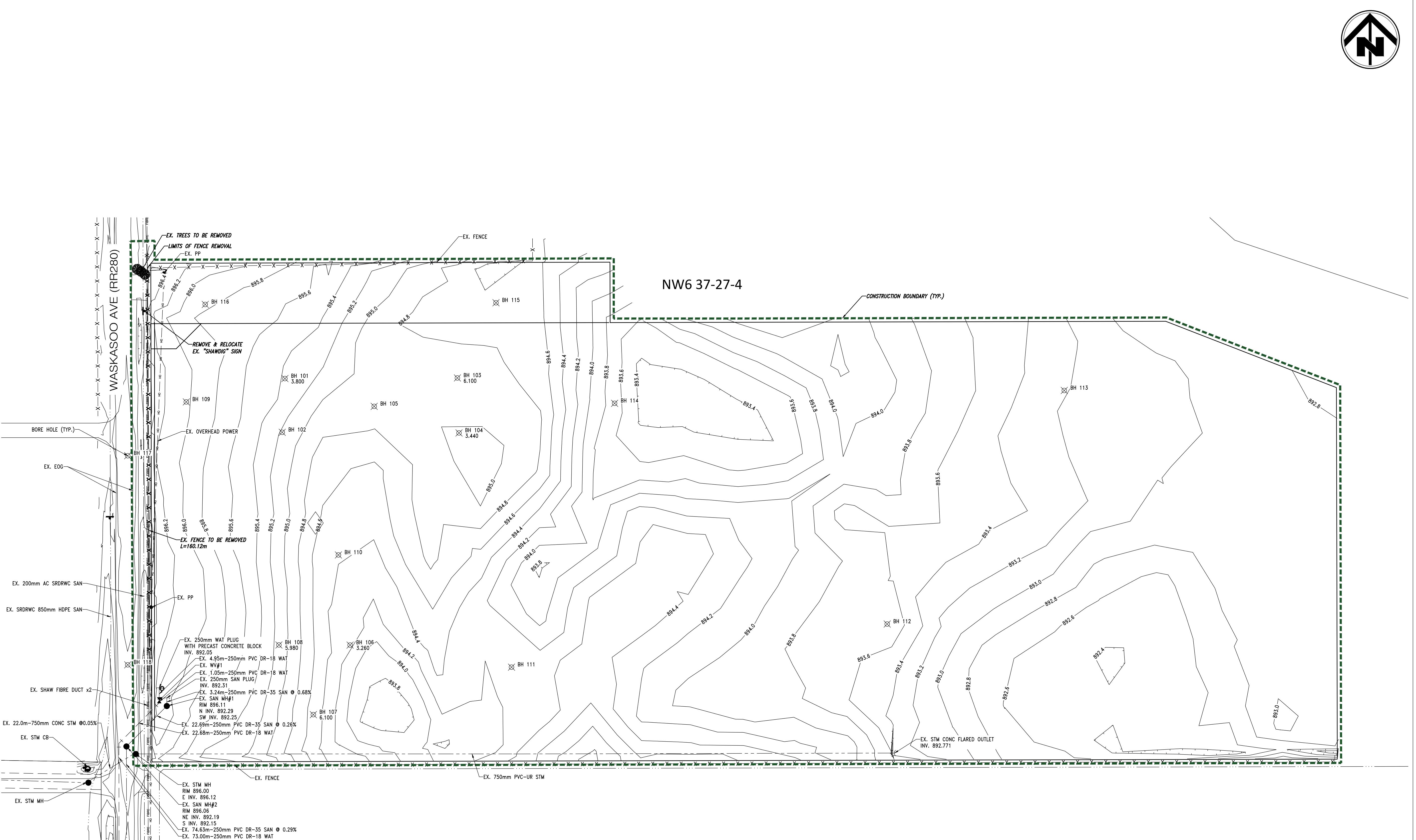
January 6, 2022

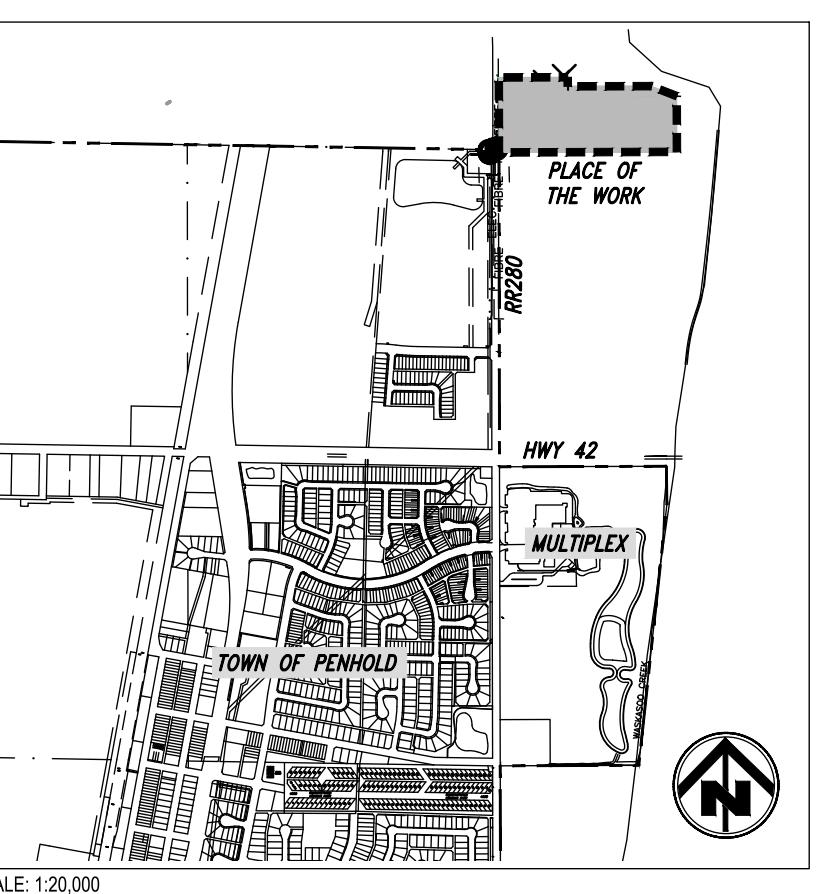
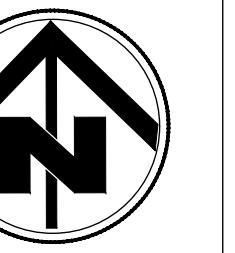
SCALE 1:750

PROJECT NO.

TPN46

SHEET C1



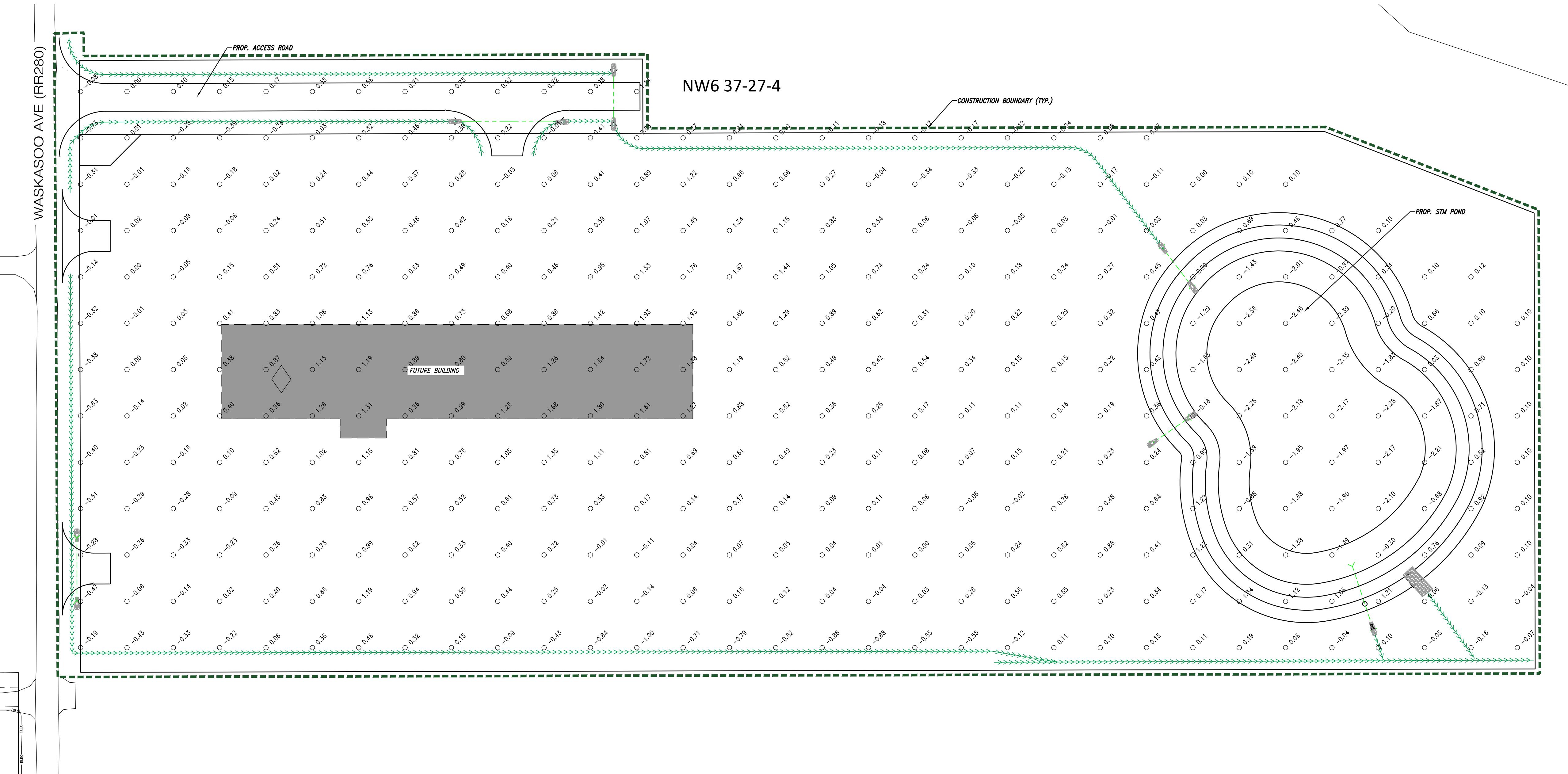


**TAGISH
ENGINEERING**

#104, 230 LAKE STREET | RED DEER COUNTY AB T4E 1B9 | 403.346.7710

www.tagish-engineering.com

LEGEND	EXISTING	PROPOSED
DESCRIPTION		
BLOCK PROPERTY LINE / W PI	- - -	- - -
LOT PROPERTY LINE / W PI	- - -	- - -
RIGHT OF WAY	- - -	- - -
MAJOR ELEVATION CONTOURS	900.000	900.000
MINOR ELEVATION CONTOURS	900.000	900.000
SWALE CENTERLINE		
INLET OR OUTFALL STRUCTURE		
STORM WATER CULVERT		
CONSTRUCTION BOUNDARY	- - -	- - -



E	—	—	—	—	—
D	REISSUED FOR CONSTRUCTION	11MAY2022	NG	NG	JP
C	ISSUED FOR CONSTRUCTION	03MAR2022	NG	CK/AW	JP
B	ISSUED FOR TENDER	07FEB2022	AW	CK/AW	JP
A	ISSUED FOR REVIEW	01FEB2022	NG	CK/AW	JP
REV DESCRIPTION	DATE DRAWN DESIGN APPROVED				

SEAL - PERMIT

PERMIT TO PRACTICE
TAGISH ENGINEERING LTD.

RM SIGNATURE: *Jared Paton*
RM APEA ID #: 325596
DATE: May 11, 2022
PERMIT NUMBER: P3686
The Association of Professional Engineers and Geoscientists of Alberta (APEGBC)

CLIENT

Penhold

PROJECT

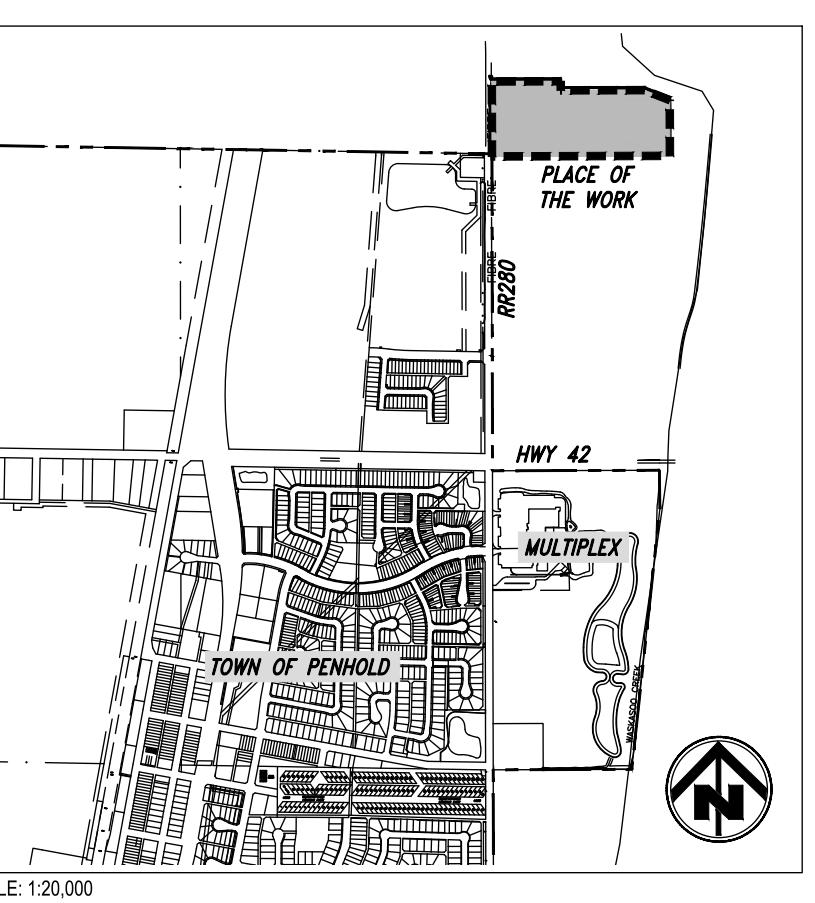
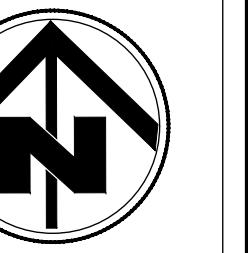
PUBLIC WORKS LOT GRADING

TITLE

CUT/FILL PLAN

DATE January 6, 2022 SCALE 1:750

PROJECT NO. TPN46 SHEET C2



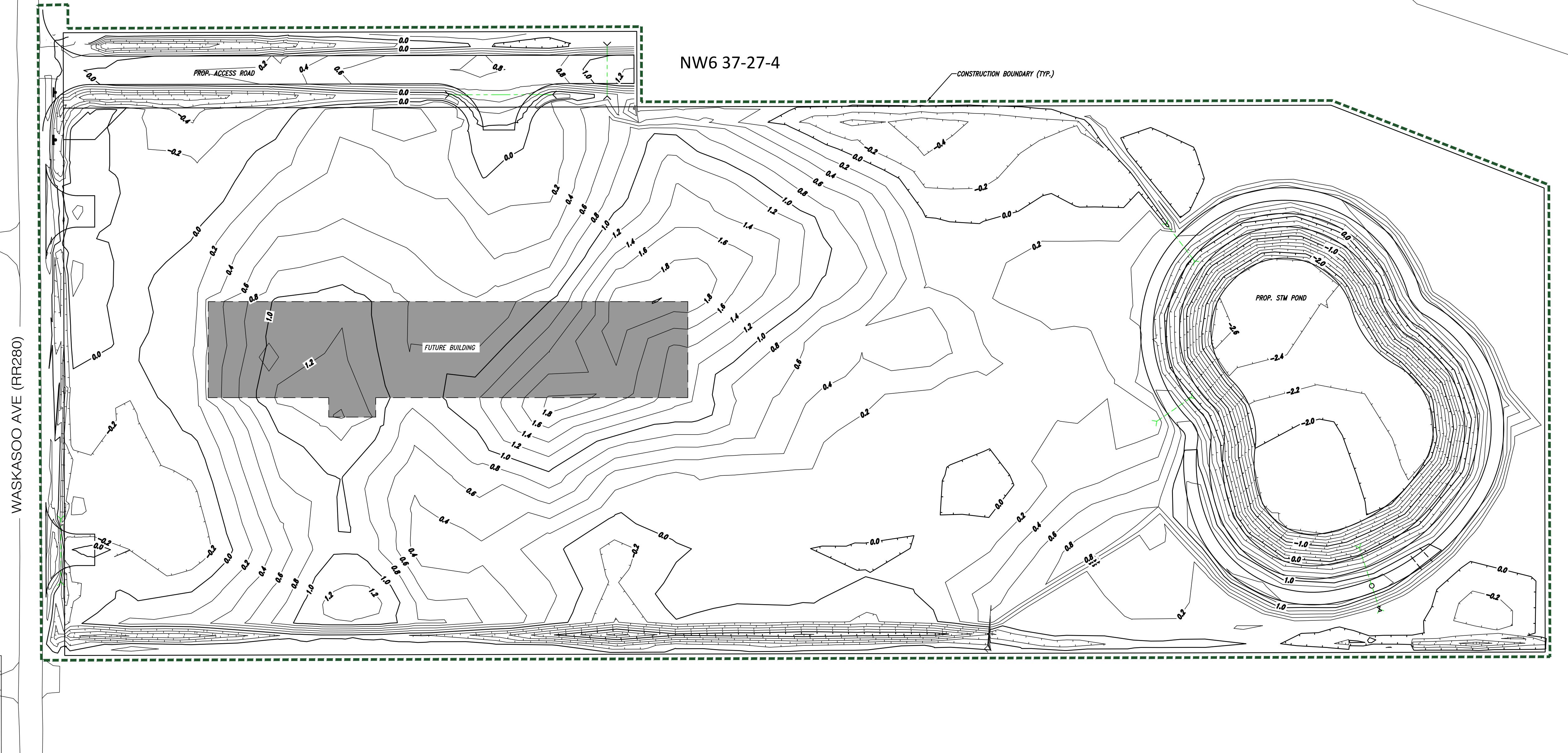
TAGISH
ENGINEERING

#104, 230 LAKE STREET | RED DEER COUNTY AB T4E 1B9 | 403.346.7710

www.tagish-engineering.com

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BLOCK PROPERTY LINE / W PI	- - -	- - -
LOT PROPERTY LINE / W PI	- - -	- - -
RIGHT OF WAY	- - -	- - -
MAJOR ELEVATION CONTOURS	900.000	900.000
MINOR ELEVATION CONTOURS	900.000	900.000
EDGE OF ASPHALT SURFACE	E0A	E0A
EDGE OF GRAVEL SURFACE	E0G	E0G
INLET OR OUTFALL STRUCTURE))
STORM WATER CULVERT))
CONSTRUCTION BOUNDARY	- - -	- - -



E	—	—	—	—	—
D	REISSUED FOR CONSTRUCTION	11MAY2022	NG	NG	JP
C	ISSUED FOR CONSTRUCTION	03MAR2022	NG	CK/AW	JP
B	ISSUED FOR TENDER	07FEB2022	AW	CK/AW	JP
A	ISSUED FOR REVIEW	01FEB2022	NG	CK/AW	JP
REV	DESCRIPTION	DATE	DRAWN	DESIGN	APPRVD

SEAL - PERMIT

PERMIT TO PRACTICE
TAGISH ENGINEERING LTD.
RM SIGNATURE: RM APEA ID # 32596
DATE: May 11, 2022
PERMIT NUMBER: P3686
The Association of Professional Engineers and Geoscientists of Alberta (APEGBC)

CLIENT

Penhold

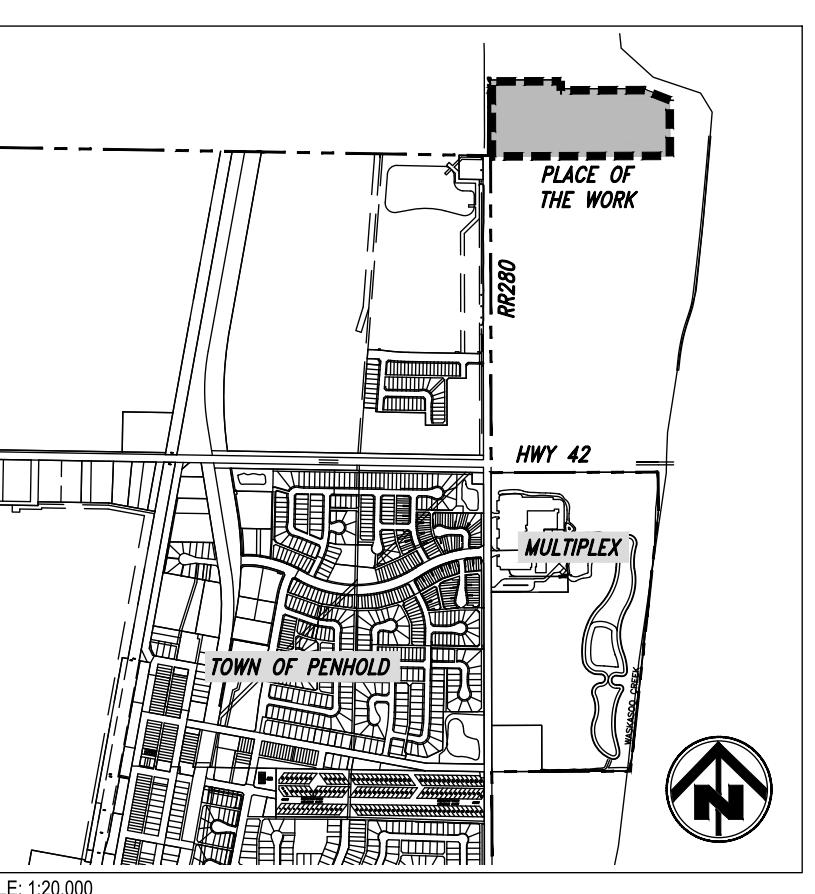
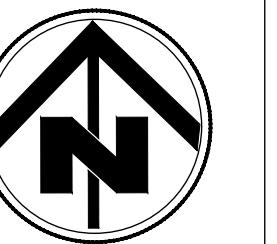
PROJECT

**PUBLIC WORKS LOT
GRADING**

TITLE

CUT/FILL CONTOUR PLAN

DATE	January 6, 2022	SCALE	1:750
PROJECT NO.	TPN46	SHEET	C3



TAGISH
ENGINEERING

#10, 230 LAKE STREET | RED DEER COUNTY AB T4E 1B9 | 403.346.7710

www.tagish-engineering.com

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BLOCK PROPERTY LINE /W PI	- - -	- - -
LOT PROPERTY LINE /W PI	- - -	- - -
RIGHT OF WAY	- - -	- - -
MAJOR ELEVATION CONTOURS	900.000	900.000
MINOR ELEVATION CONTOURS	900.000	900.000
MONOWALK /W PARAMP (LOG)	(LOG)	(LOG)
CURB & GUTTER W/ DROP (BOW)	BOW	BOW
EDGE OF ASPHALT SURFACE	EOA	EOA
EDGE OF GRAVEL SURFACE	EOG	EOG
CENTERLINE W/ FLOW & PI	+ + +	+ + +
LIGHT STANDARD	+	+
POWERPOLE W/ ANCHOR	+	+
FENCELINE	X X X X	X X X X
STD 1200 DIA. MANHOLE (TYPE 5A)	●	●
CATCH BASIN MANHOLE (STD)	●	●
CATCH BASIN MANHOLE (ROLLED FACE)	●	●
CATCH BASIN (STRAIGHT FACE)	■	■
CATCH BASIN (ROLLED FACE)	■	■
CATCH BASIN (TRASH GRATE)	■	■
INLET OR OUTFALL STRUCTURE	- - -	- - -
STORM WATER CULVERT	—	—
STORM MAIN W/ FLOW & MH	—	—
SANITARY MAIN W/ FLOW & MH	—	—
SANITARY VERT. DEF'L & PLUG	—	—
PHONE SURFACE CUBE COCK	—	—
WATER HYDRANT	●	●
WATER VALVE	●	●
WATER MAIN W/ REDUCER & TEE	—	—
CABLE SURFACE PEDESTAL	—	—
CABLE MAIN LINE	—	—
PHONE SURFACE PEDESTAL	—	—
TELUS MAIN LINE	—	—
POWER SURFACE TRANSFORMER	—	—
POWER MAIN LINE	ELEC ELEC	ELEC ELEC
GAS MAIN LINE	GAS GAS	GAS GAS
SWALE CENTERLINE	—	—
CONSTRUCTION BOUNDARY	—	—

E —	—	—	—
D REISSUED FOR CONSTRUCTION	11MAY2022	NG	JP
C ISSUED FOR CONSTRUCTION	03MAR2022	NG	CK/AW JP
B ISSUED FOR TENDER	07FEB2022	AW	CK/AW JP
A ISSUED FOR REVIEW	01FEB2022	NG	CK/AW JP
REV DESCRIPTION	DATE DRAWN	DESIGN	APPRVD

SEAL - PERMIT

PERMIT TO PRACTICE
TAGISH ENGINEERING LTD.

RM SIGNATURE: *Jared Paton*
RM APEX ID #: 32596
DATE: May 11, 2022
PERMIT NUMBER: P3686
The Association of Professional Engineers and Geoscientists of Alberta (APEGBC)

CLIENT

Penhold

PROJECT

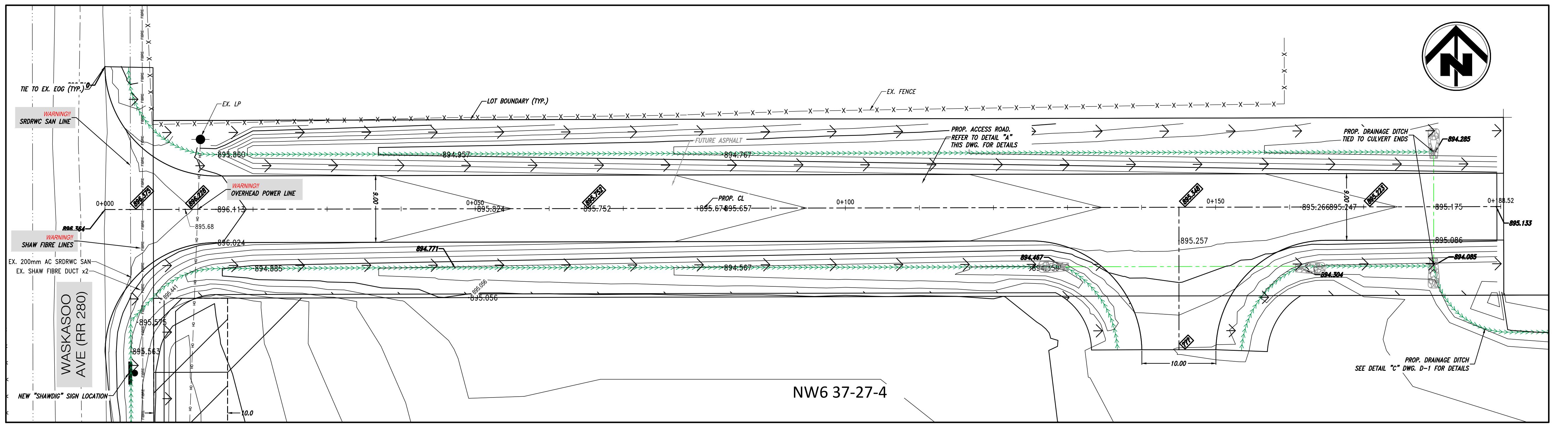
PUBLIC WORKS LOT GRADING

TITLE

DESIGN GRADE PLAN

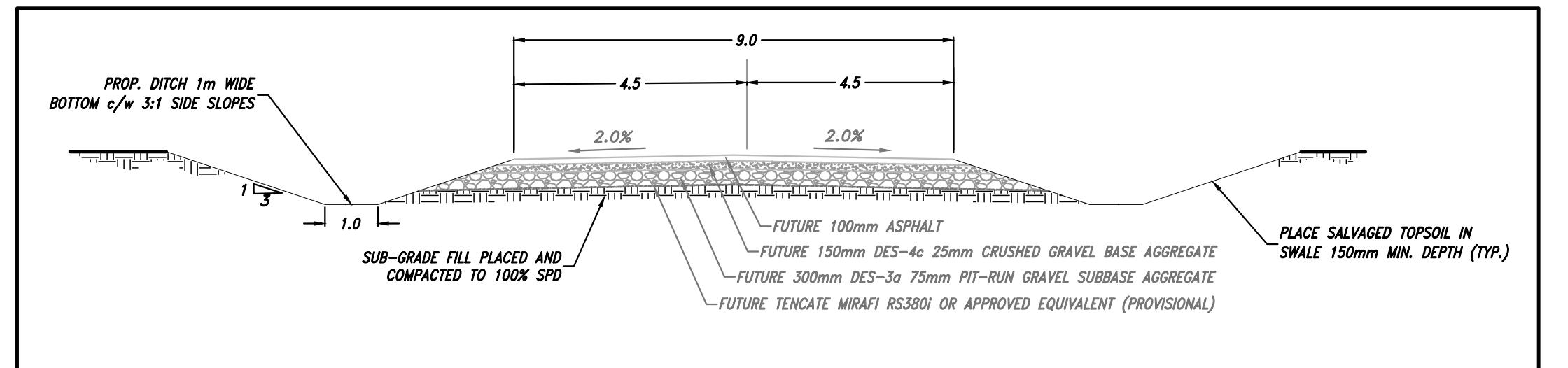
DATE January 6, 2022 SCALE 1:750

PROJECT NO. TPN46 SHEET C4

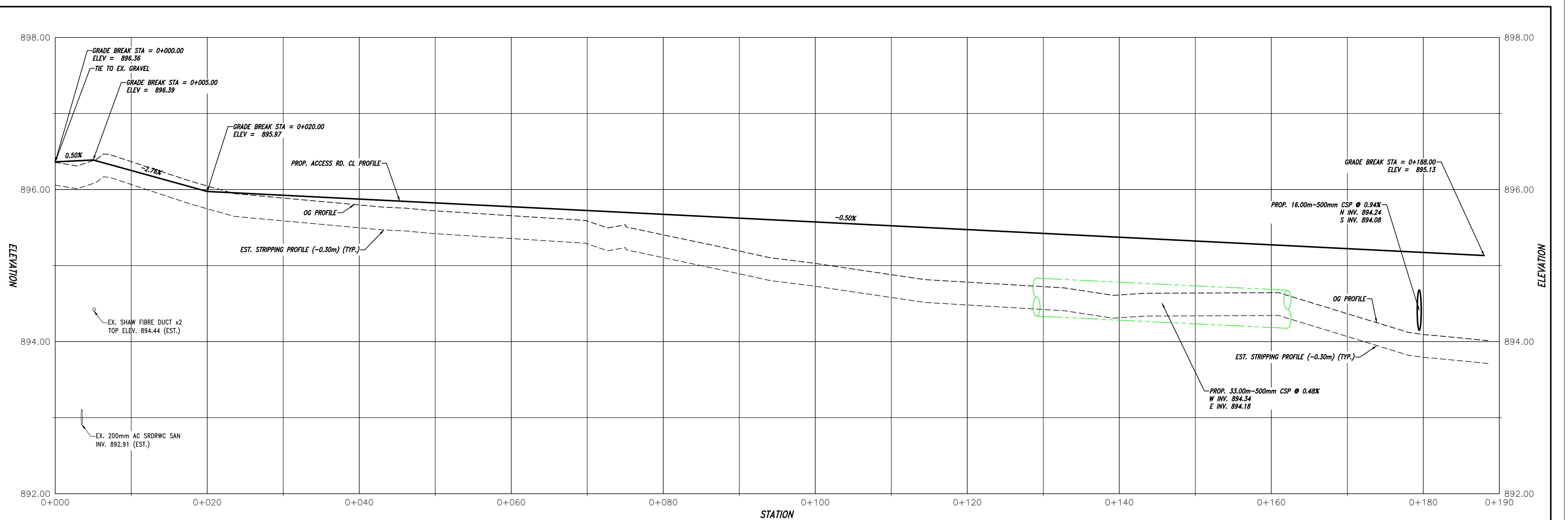


ACCESS ROAD - PLAN VIEW

SCALE 1: 300

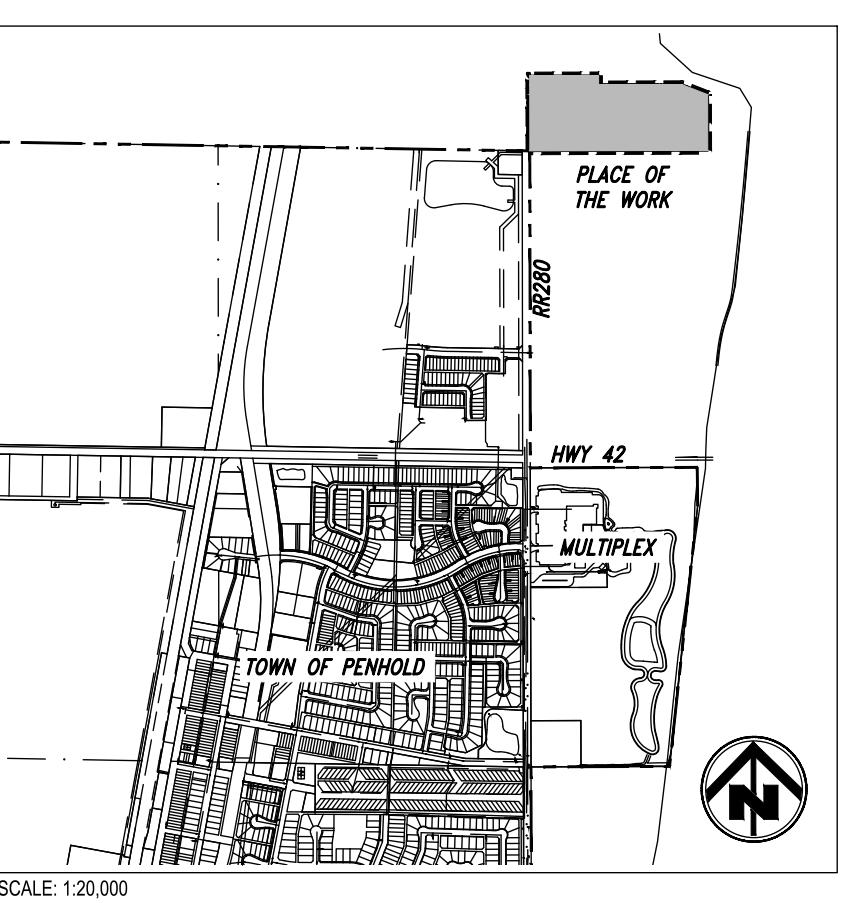


**DETAIL "A" - ACCESS ROAD
SCALE: 1:100**



ACCESS ROAD - PROFILE VIEW

SCALE 1: 300V 1:30H

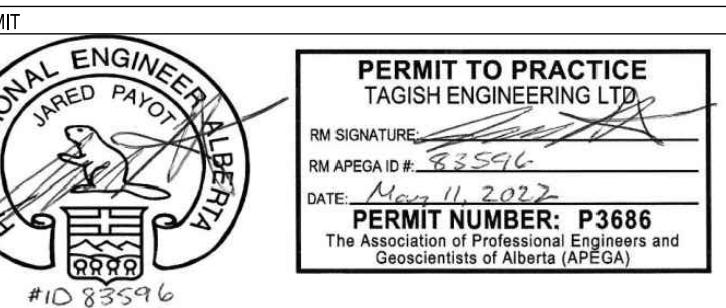


TAGISH ENGINEERING

#104, 230 LAKE STREET | RED DEER COUNTY AB T4E 1B9 | 403.346.7710

www.tagish-engineering.com

GEND



May 11, 2026

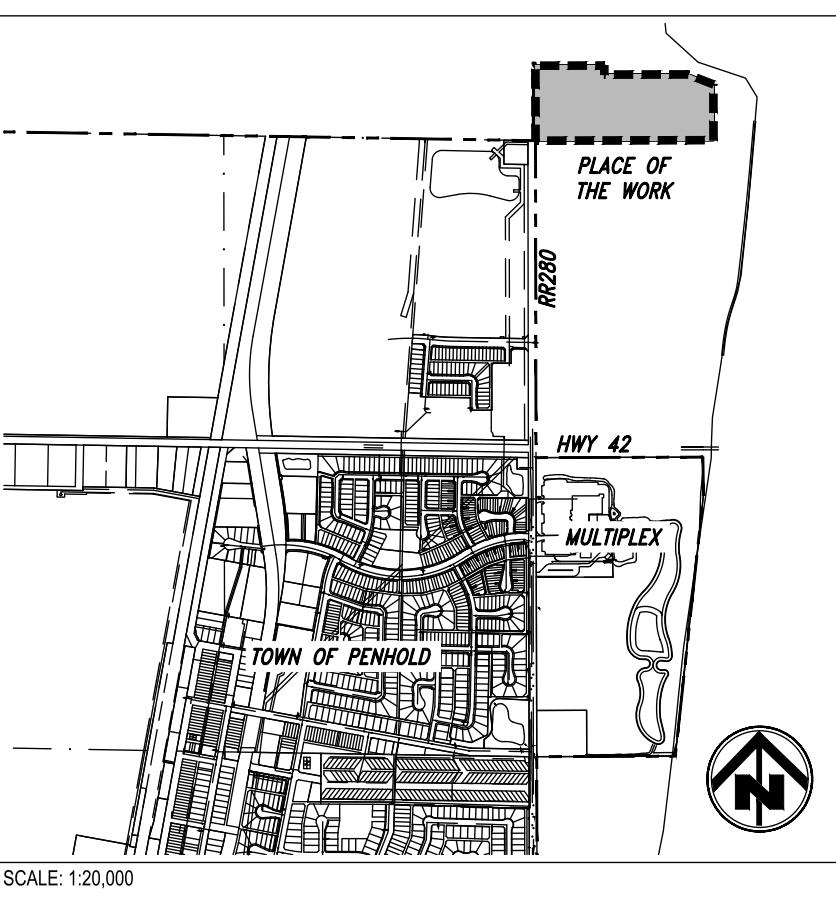
Penhold

PUBLIC WORKS LOT GRADING

—

ACCESS ROAD PLAN / PROFILE

E	January 6, 2022	SCALE 1:300
JECT NO.	TPN46	SHEET P1



TAGISH
ENGINEERING

#104, 230 LAKE STREET | RED DEER COUNTY AB T4E 1B9 | 403.346.7110

www.tagish-engineering.com

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BLOCK PROPERTY LINE /W PI	- - -	- - -
LOT PROPERTY LINE /W PI	- - -	- - -
RIGHT OF WAY	- - -	- - -
MAJOR ELEVATION CONTOURS	— 900.000 —	— 900.000 —
MINOR ELEVATION CONTOURS	— 900.000 —	— 900.000 —
EDGE OF ASPHALT SURFACE	— EOA —	— EOA —
EDGE OF GRAVEL SURFACE	— EOG —	— EOG —
CENTERLINE W/ FLOW & PI	— + —	— + —
LIGHT STANDARD	— — —	— — —
POWERPOLE W/ ANCHOR	● — — —	○ — — —
FENCELINE	X — X — X —	X — X — X —
STD 1200 DIA. MANHOLE (TYPE 5A)	●	●
CATCH BASIN MANHOLE (STD)	●	●
CATCH BASIN MANHOLE (ROLLED FACE)	●	●
CATCH BASIN MANHOLE (TRASH GRATE)	●	●
CATCH BASIN (STRAIGHT FACE)	●	●
CATCH BASIN (ROLLED FACE)	●	●
CATCH BASIN (TRASH GRATE)	●	●
STORM WATER CULVERT	— — —	— — —
STORM MAIN W/ FLOW & MH	— — —	— — —
SANITARY MAIN W/ FLOW & MH	— — —	— — —
SANITARY VERT. DEF. & PLUG	— — —	— — —
WATER SERVICE CURE COCK	○	○
WATER HYDRANT	●	●
WATER VALVE	○	○
WATER MAIN W/ REDUCER & TEE	— + + —	— + + —
CABLE MAIN LINE	— FIBRE —	— FIBRE —
POWER MAIN LINE	— ELEC —	— ELEC —
GAS MAIN LINE	— GAS —	— GAS —
DITCH BOTTOM W/ FLOW DIRECTION	>>>>>	>>>>>
TREE	●	●
CONSTRUCTION BOUNDARY	— - - - -	— - - - -
E		
D ISSUED FOR CONSTRUCTION	11MAY2022	NG NG JP
C ISSUED FOR CONSTRUCTION	03MAR2022	AW CK/AW JP
B ISSUED FOR TENDER	07FEB2022	AW CK/AW JP
A ISSUED FOR REVIEW	01FEB2022	NG CK JP
REV DESCRIPTION	DATE DRAWN DESIGN APPROVD	
SEAL-PERMIT	PERMIT TO PRACTICE TAGISH ENGINEERING LTD. RM APEDA ID # 33556 DATE May 11, 2022 PERMIT NUMBER: P3686 The Association of Professional Engineers and Geoscientists of Alberta (APEG) #1013546	

CLIENT

Penhold

PROJECT

**PUBLIC WORKS LOT
GRADING**

TITLE

SECTION PROFILES

DATE

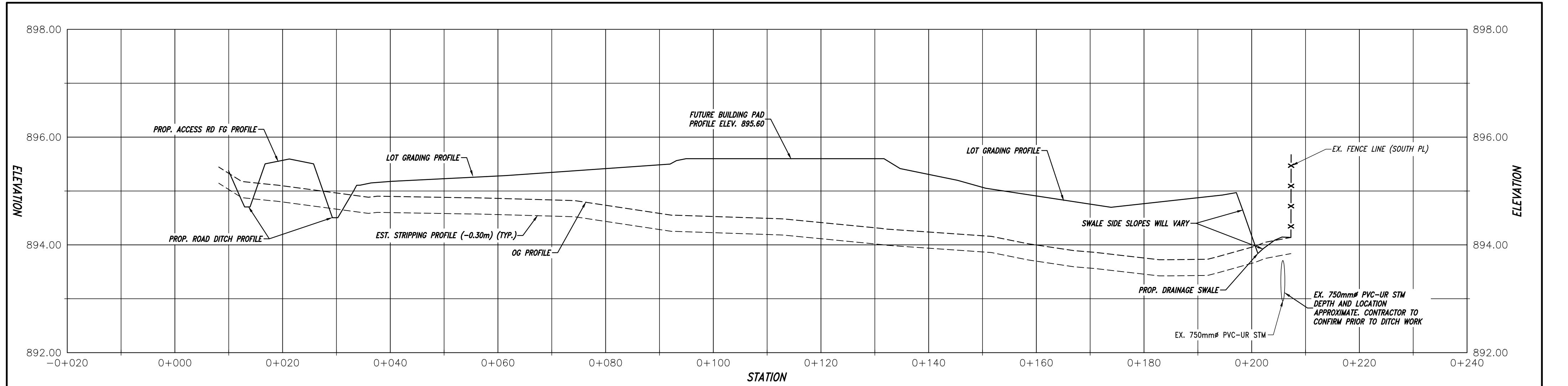
January 6, 2022

SCALE AS NOTED

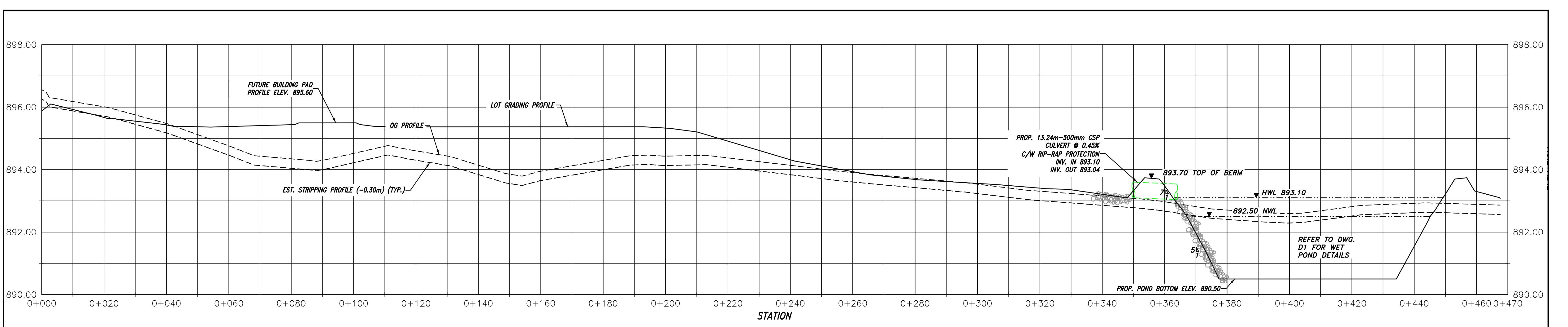
PROJECT NO.

TPN46

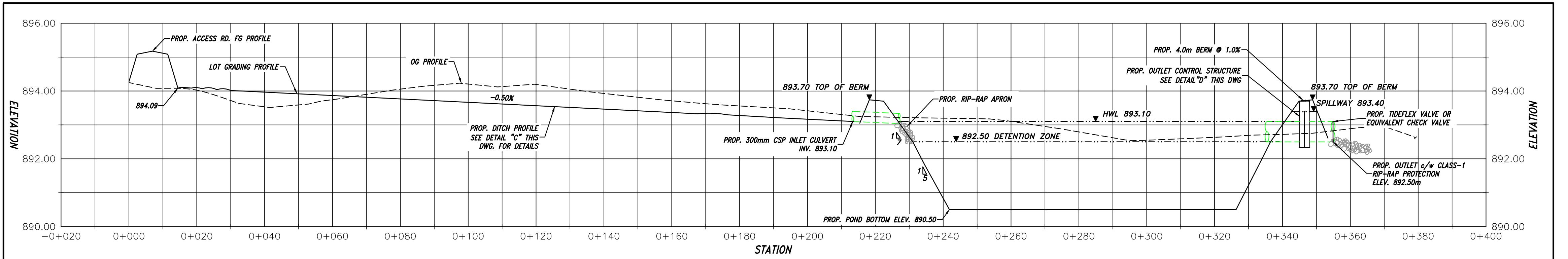
HEET P2



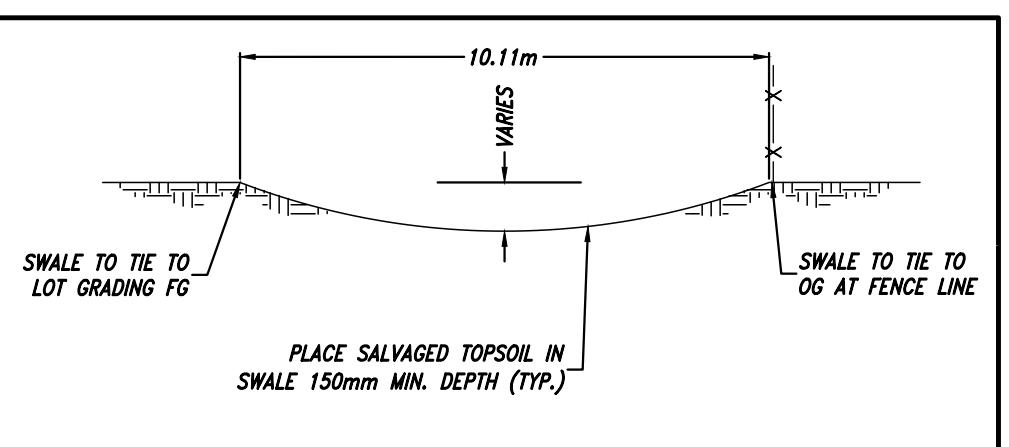
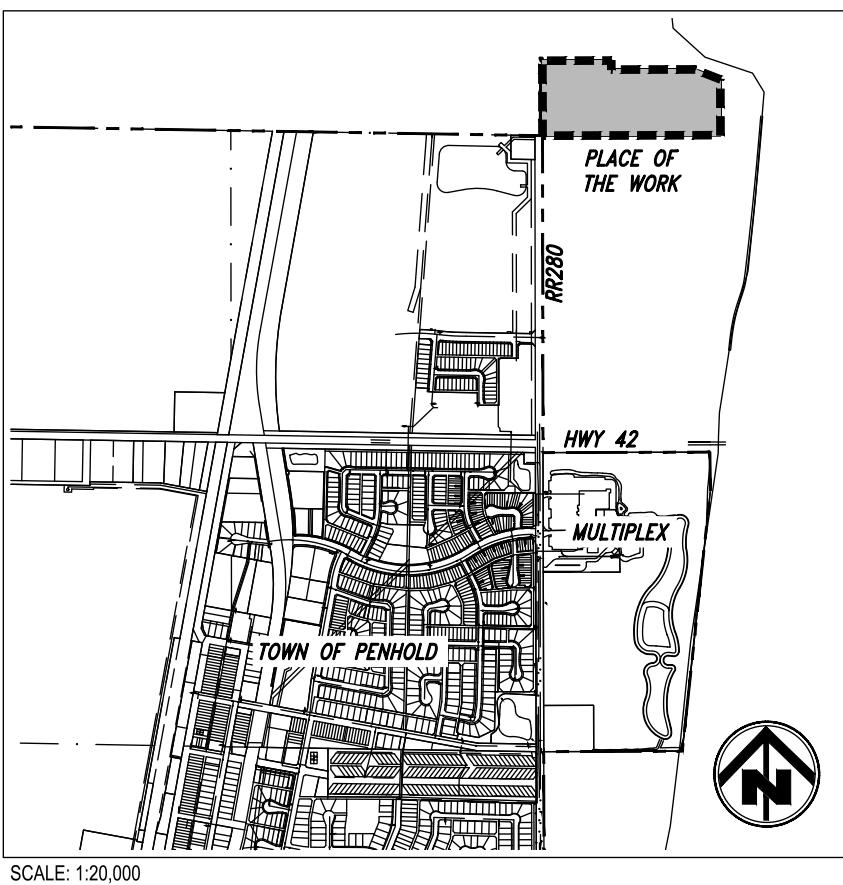
SECTION A-A PROFILE VIEW
SCALE 1: 500 H 1:50 V



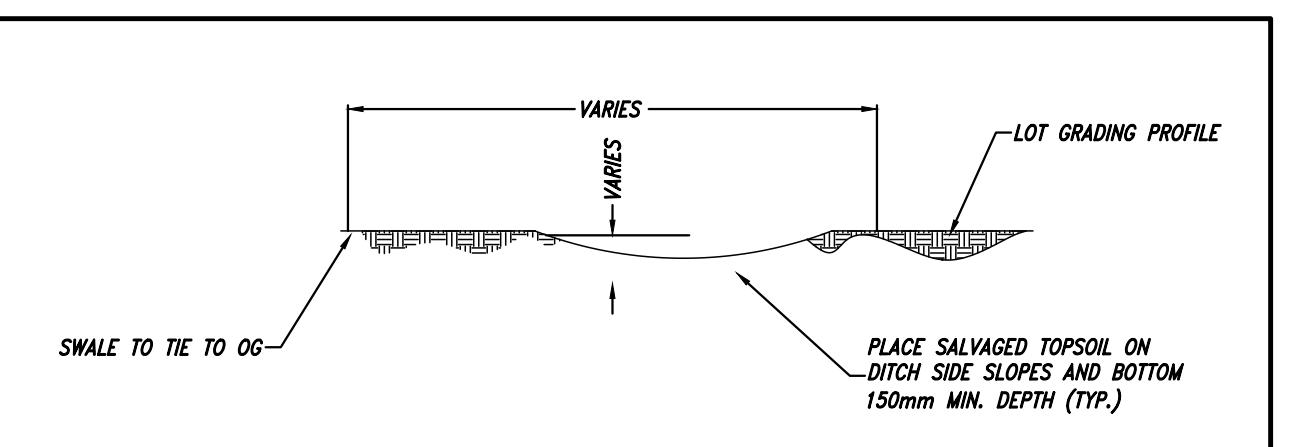
SECTION B-B PROFILE VIEW
SCALE 1: 750 H 1:75 V



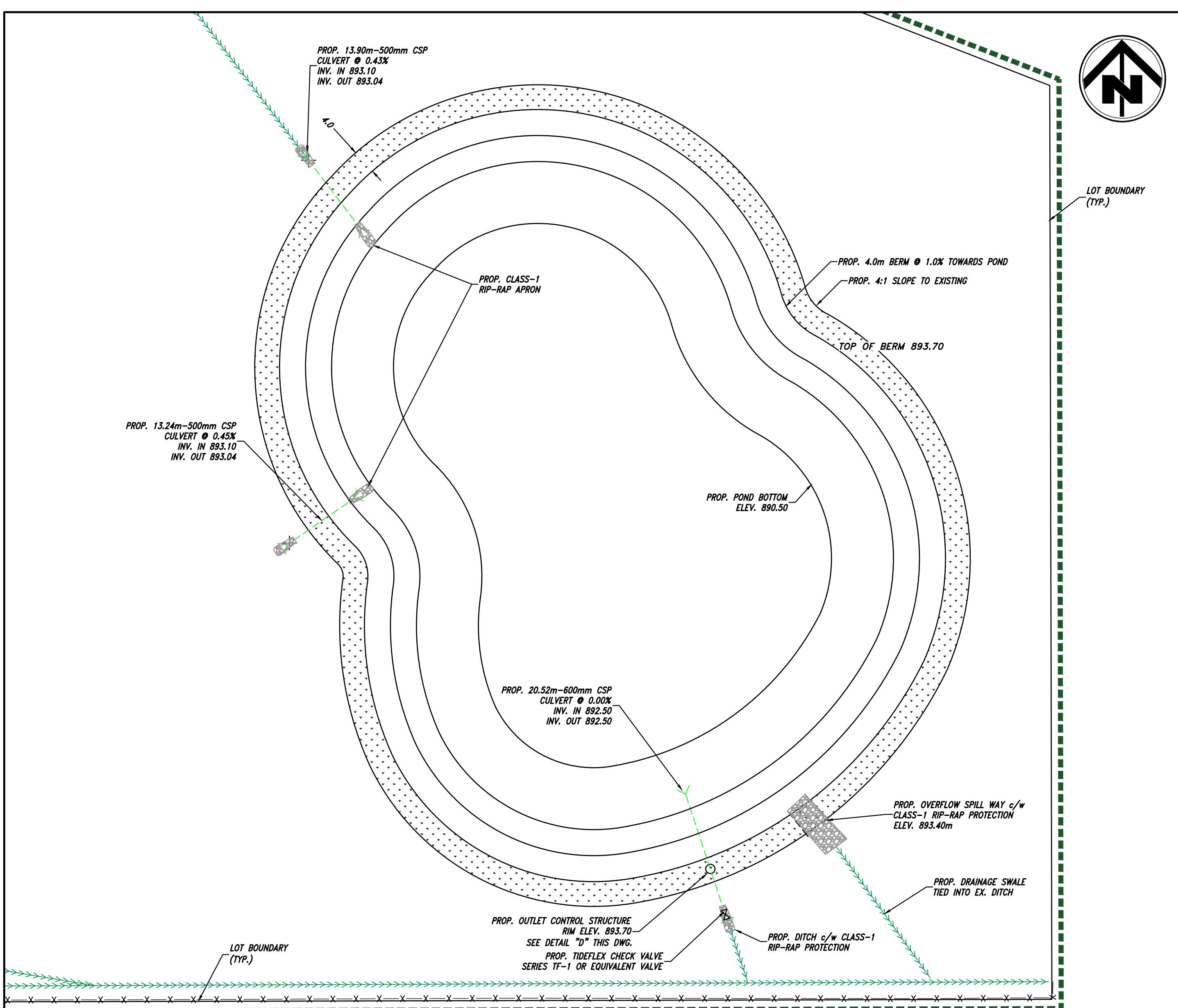
DRAINAGE DITCH - PROFILE VIEW
SCALE 1: 750 H 1:75 V



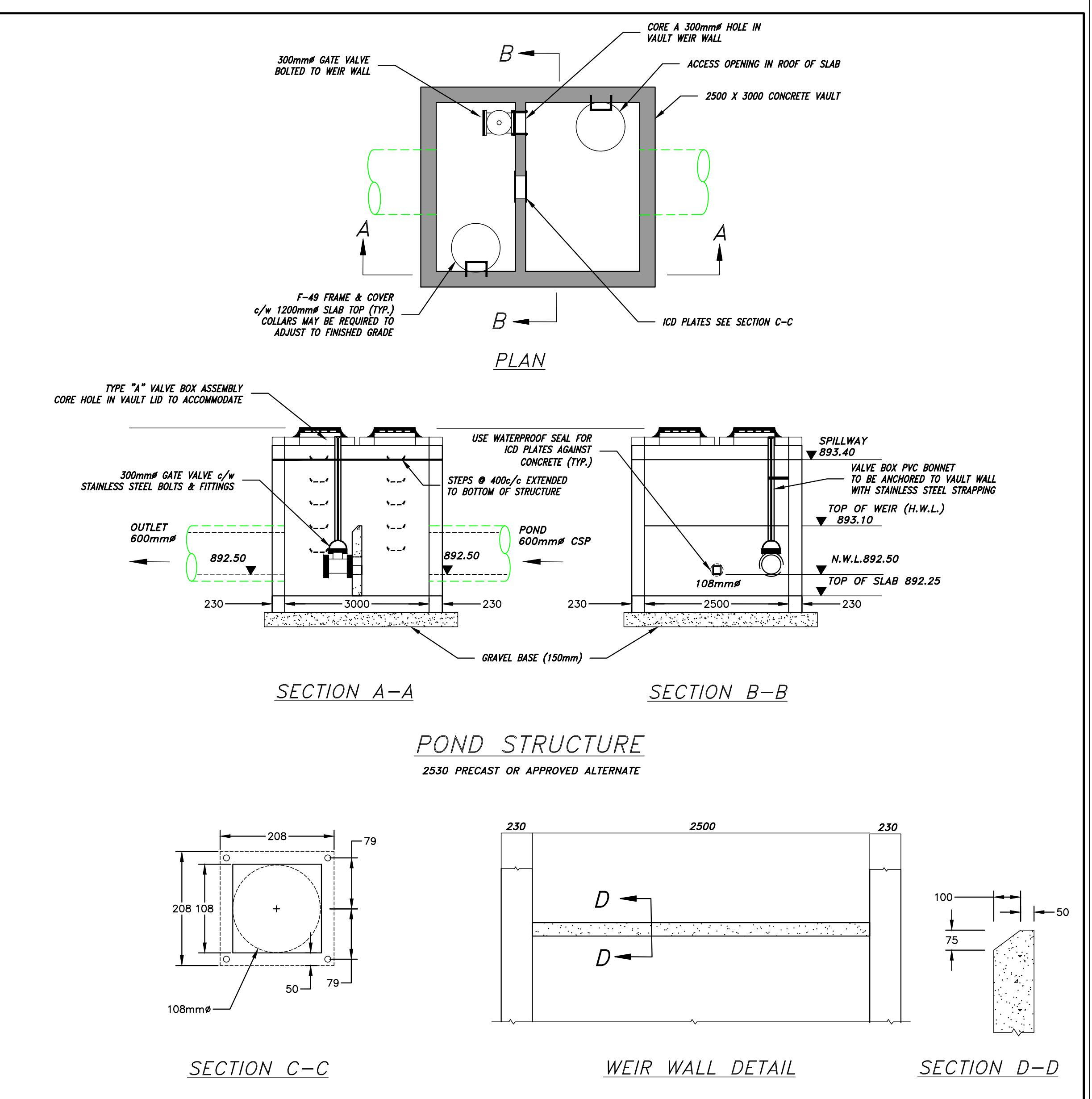
DETAIL "B" - DRAINAGE SWALE
SCALE: NTS



DETAIL "C" - DRAINAGE DITCH
SCALE: 1:100



STORM WET POND DETAIL
SCALE 1: 500



DETAIL "D" - OUTLET CONTROL STRUCTURE
SCALE: NTS

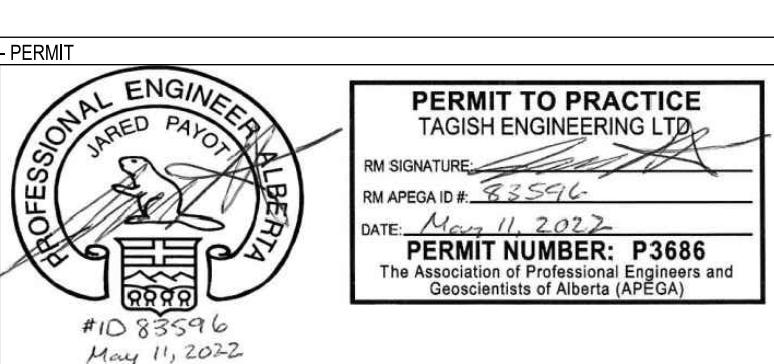
TAGISH
ENGINEERING

#104, 230 LAKE STREET | RED DEER COUNTY AB T4E 1B9 | 403.346.7710

www.tagish-engineering.com

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BLOCK PROPERTY LINE /W PI	- - -	- - -
LOT PROPERTY LINE /W PI	- - -	- - -
RIGHT OF WAY	- - -	- - -
MAJOR ELEVATION CONTOURS	900.000	900.000
MINOR ELEVATION CONTOURS	EOA	EOA
EDGE OF ASPHALT SURFACE	EOG	EOG
EDGE OF GRAVEL SURFACE	EGG	EGG
CENTERLINE W/ FLOW & PI	- + -	- + -
LIGHT STANDARD	-	-
POWERPOLE W/ ANCHOR	-	-
FENCELINE	X-X-X-X	X-X-X-X
STD 1200 DIA. MANHOLE (TYPE 5A)	●	○
CATCH BASIN MANHOLE (STD)	●	○
CATCH BASIN MANHOLE (ROLLED FACE)	●	○
CATCH BASIN MANHOLE (TRASH GRATE)	●	○
CATCH BASIN (STRAIGHT FACE)	●	○
CATCH BASIN (ROLLED FACE)	●	○
CATCH BASIN (TRASH GRATE)	●	○
INLET OR OUTFALL STRUCTURE	-	-
STORM WATER CULVERT	-	-
STORM MAIN W/ FLOW & MH	- - -	- - -
SANITARY MAIN W/ FLOW & MH	- - -	- - -
SANITARY VERT. DEF. & PLUG	- - -	- - -
WATER SERVICE CURB COCK	-	-
WATER HYDRANT	-	-
WATER VALVE	-	-
WATER MAIN /W REDUCER & TEE	- - -	- - -
CABLE MAIN LINE	- - -	- - -
TELUS MAIN LINE	- - -	- - -
POWER MAIN LINE	ELEC - ELEC - ELEC	ELEC - ELEC - ELEC
GAS MAIN LINE	GAS - GAS - GAS	GAS - GAS - GAS
DITCH BOTTOM W/ FLOW DIRECTION	>>>>>	>>>>>
TREE	-	-
CONSTRUCTION BOUNDARY	- - - - -	- - - - -



Penhold

PUBLIC WORKS LOT GRADING

DATE	DRAWN	DESIGN	APPR'D
D REISSUED FOR CONSTRUCTION	11MAY2022	NG	JP
C ISSUED FOR CONSTRUCTION	03MAY2022	AW	CK/AW
B ISSUED FOR TENDER	07FEB2022	AW	CK/AW
A ISSUED FOR REVIEW	01FEB2022	NG	CK
REV DESCRIPTION	DATE	DRAWN	DESIGN APPR'D
SEAL - PERMIT			
PERMIT TO PRACTICE TAGISH ENGINEERING LTD.			
RM APEA ID # 33596			
DATE May 11, 2022			
PERMIT NUMBER: P3666			
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)			
CLIENT			
PROJECT			
TITLE			
DRAINAGE DITCH PROFILE & MISCELLANEOUS DETAILS			
DATE January 6, 2022	SCALE	AS NOTED	
PROJECT NO.	TPN46	HEET	D-1