

**Proposed water main connection project location. 8" existing water main in NE corner of Alpine Airpark with and unused leg of blind flange is proposed to follow Diamondis Dr to the North on the west side of the existing roadway, bend to the east, and cross underneath HWY 26 to connect to existing 8" water main.**

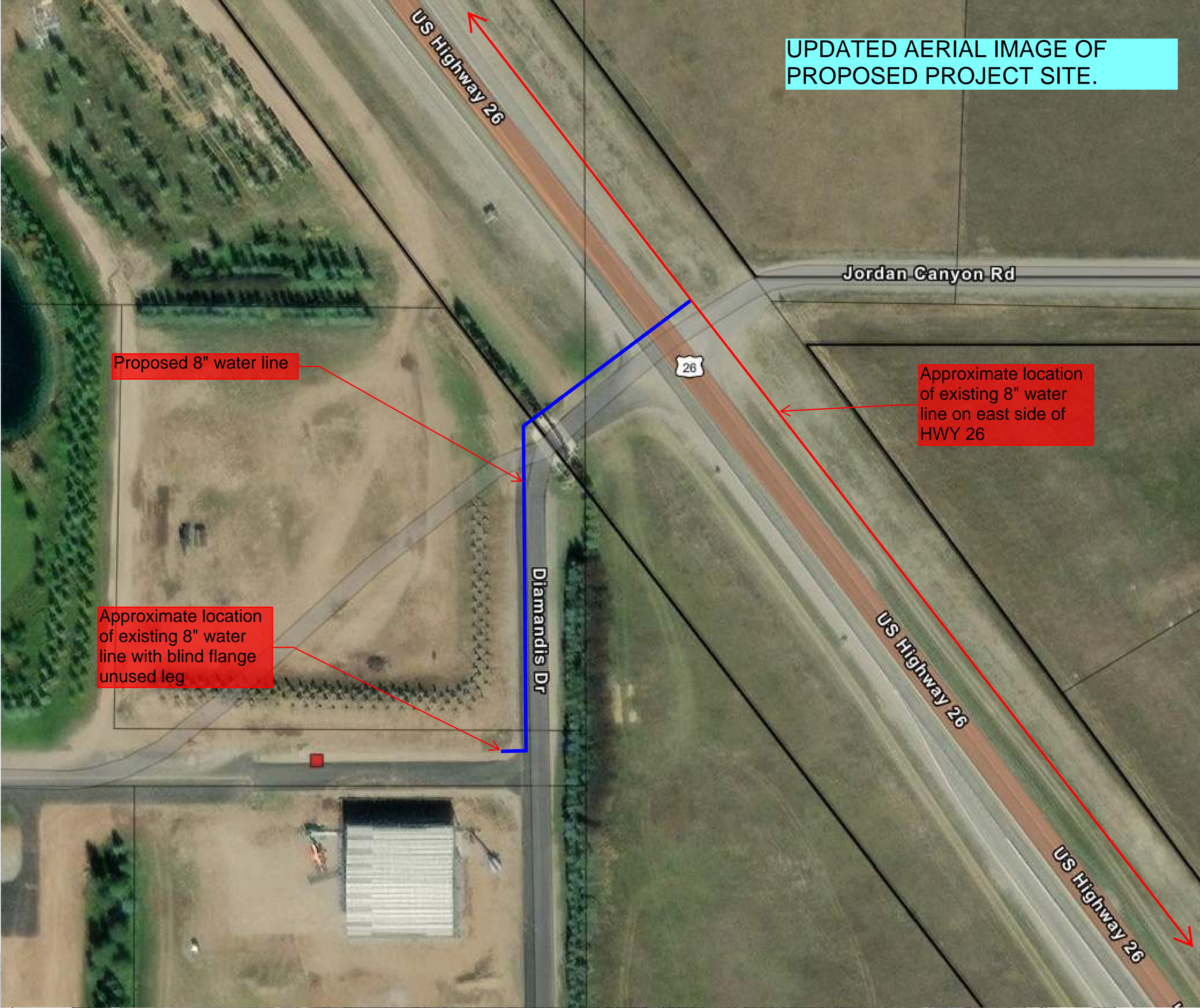
# TOWN OF ALPINE WATER DISTRIBUTION & SEWER COLLECTION

- LEGEND**
- EXISTING WATER
  - EXISTING SEWER GRAVITY
  - EXISTING SEWER FORCE MAIN
  - EXISTING LIFT STATIONS
  - ALPINE CITY LIMIT

LOTS BASED ON LINCOLN COUNTY PARCELS GIS DATA CURRENT AS OF MAY 31, 2014  
GOOGLE AERIAL IMAGE JUNE, 2014



UPDATED AERIAL IMAGE OF PROPOSED PROJECT SITE.



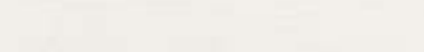




250,000 GAL STORAGE TANK

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# TOWN OF ALPINE WATER DISTRIBUTION & SEWER COLLECTION

### LEGEND

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**Town of Alpine - Airpark Waterline Project**

COST ESTIMATE - MARCH 12, 2024

PROJECT MANAGEMENT (PM)/CONSTRUCTION MANAGEMENT (CM)					PERCENT BASED BELOW
A	SURVEYING				\$ 20,000.00
B	PERMITTING AND MITIGATION				\$30,000.00
C	LEGAL FEES / RIGHT OF WAY ACQUISITION				\$ 5,000.00
<b>CONSTRUCTION COSTS</b>					
	ITEM	UNIT	TOTAL EST QUANTITY	EST UNIT COST	TOTAL COST
1	MOBILIZATION	LS	1	\$ 30,000.00	\$ 30,000.00
2	SUBMITTALS/SCHEDULING	LS	1	\$ 5,000.00	\$ 5,000.00
3	TEMPORARY FACILITIES	LS	1	\$ 5,000.00	\$ 5,000.00
4	TRAFFIC CONTROL	LS	1	\$ 10,000.00	\$ 10,000.00
5	FORCE ACCOUNT	FA	1	\$ 10,000.00	\$ 10,000.00
6	ASPHALT EXCAVATION AND REMOVAL	SY	2760	\$ 15.00	\$ 41,400.00
7	18" IMPORT PIT RUN	SY	2760	\$ 35.00	\$ 96,600.00
8	6" CRUSHED BASE	SY	2760	\$ 12.00	\$ 33,120.00
9	3" HPM	SY	2760	\$ 40.00	\$ 110,400.00
10	EXPLORATORY EXCAVATION	HR	30	\$ 500.00	\$ 15,000.00
11	HORIZONTAL BORING AND ENCASEMENT	LF	90	\$ 460.00	\$ 41,400.00
12	UNSUITABLE TRENCH EXCAVATION	CY	70	\$ 13.00	\$ 910.00
13	TYPE 2 BEDDING	CY	70	\$ 25.00	\$ 1,750.00
14	CONNECT TO EXISTING WATERLINE	EA	2	\$ 4,000.00	\$ 8,000.00
15	8" WATER MAIN	LF	450	\$ 175.00	\$ 78,750.00
16	8" WATER MAIN GATE VALVE	EA	4	\$ 2,600.00	\$ 10,400.00
17	FITTING - 8"X8"X8" TEE	EA	1	\$ 1,500.00	\$ 1,500.00
18	FITTING - 8"X8"X8" 45 BEND	EA	2	\$ 1,200.00	\$ 2,400.00
19	UNUSUAL WATER/SEWER CROSSING	EA	1	\$ 1,000.00	\$ 1,000.00
20	ENGINEERING FABRIC (WOVEN)	SY	2760	\$ 20.00	\$ 55,200.00
21	3" RIGID INSULATION	LF	225	\$ 50.00	\$ 11,250.00
<b>WATER CONSTRUCTION COMPONENTS</b>					\$ 172,360.00
<b>ROADWAY CONSTRUCTION COMPONENTS</b>					\$ 336,720.00
<b>CONSTRUCTION COMPONENTS (Excluding items 1-5)</b>					\$ 509,080.00
<b>CONSTRUCTION SUBTOTAL</b>					\$ 569,080.00
<b>CONSTRUCTION ENGINEERING / ADMINISTRATION</b>					\$56,908.00
<b>CONTINGENCY 10%</b>					\$56,908.00
<b>TOTAL PROJECT COST (TOTAL CONSTRUCTION COST + ENGINEERING, PERMITTING,EASEMENTS)</b>					<b>\$737,896.00</b>
<b>PROJECT BUDGET / ESTIMATE IN 2023 DOLLARS AT 2% INFLATION</b>					<b>\$753,000.00</b>

**NOTE:**

ONLY the west side of Diamondias Drive from the north most intersection of the taxiway is calculated in asphalt excavation and removal, and assumed 12 ft west lane to be replaced with pit run, crushed base and 3" HPM.

No concrete visibual from aerial images, so No "excavation or removal of concrete" in the cost estimate. Also, it would be up to the town of Alpine if they would like to add in curb, gutter, sidewalks,

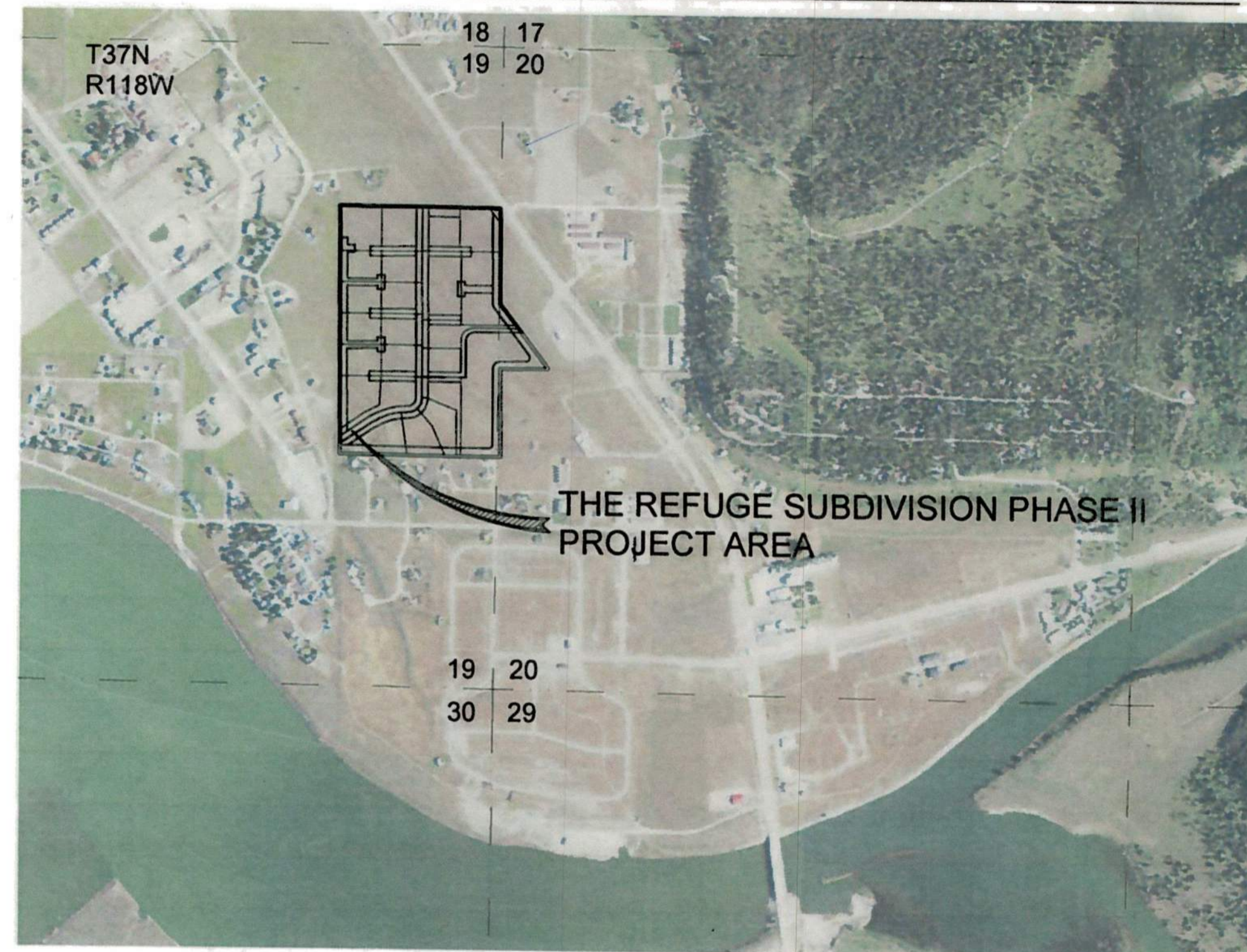
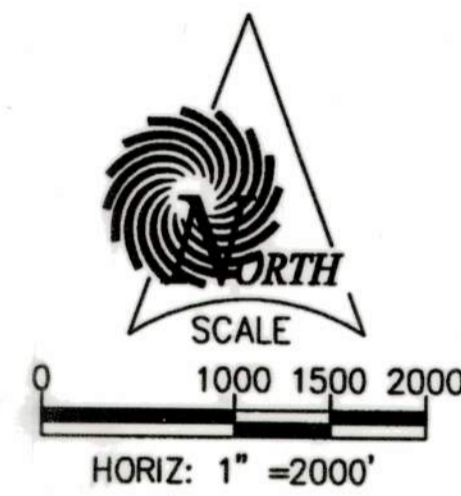
PERCENTAGES TO THE LEFT REPRESENT PERCENTAGES FORMULATED FROM AVERAGE PRICES OBTAINED FROM PHASE 2 HMR BID TAB - 10% OF TOTAL CONSTRUCTION COMPONENTS COSTS REPRESENT ENGINEERING DESIGN. 10% OF COMPONENTS COSTS PLUS COMPONENTS CONTINGENCY REPRESENT TOTAL CONSTRUCTION ADMINISTRATION COSTS. PREPARATION OF FINAL DESIGN AND SPECIFICATIONS REPRESENT 10% OF CONSTRUCTION SUBTOTAL INCL ITEMS 1-5 WITH COMPONENTS. PERMITTING AND MITIGATION REPRESENTS 2% OF CONSTRUCTION SUBTOTAL INCL ITEMS 1-5 WITH COMPONENTS. LEGAL FEES REPRESENT 2% OF CONSTRUCTION SUBTOTAL INCL ITEMS 1-5 WITH COMPONENTS

**Notes:**

• HMR PHASE III (21601) bid tabs and Nichols Street (21664) bid tabs were used to update unit prices for geotextile fabric, pipe bedding, rigid insulation, connect to existing water line, valves, fittings

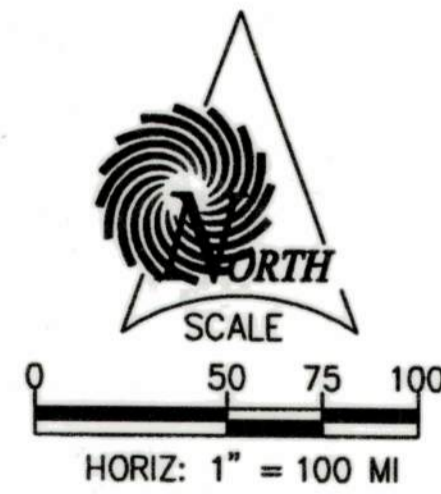
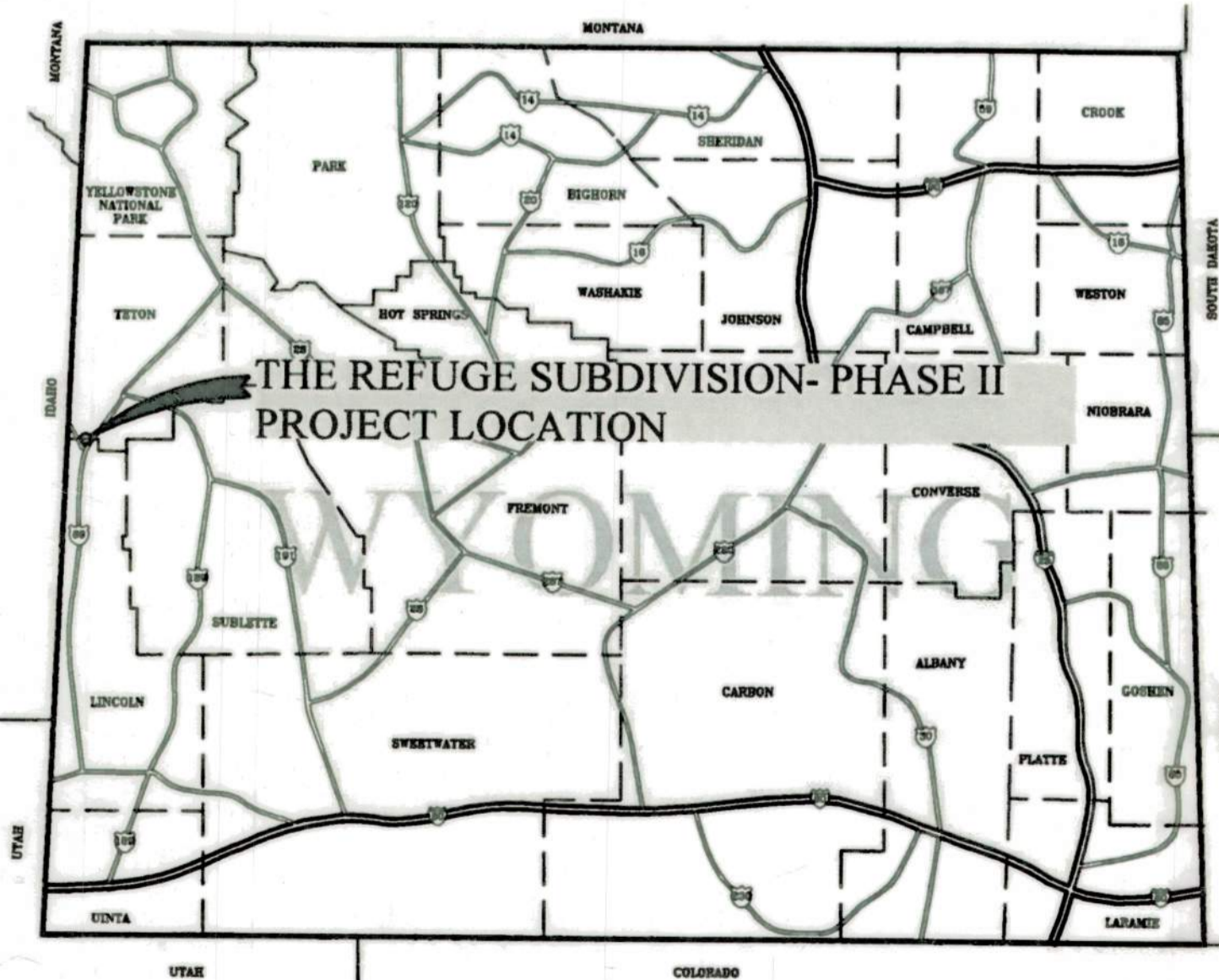
# ALPINE AIRPARK REFUGE, INC. THE REFUGE SUBDIVISION-PHASE II WATER SYSTEM IMPROVEMENT PROJECT CONTRACT RECORD DRAWING

VICINITY MAP



PROJECT USED IN IDENTIFYING  
EXISTING CONDITIONS

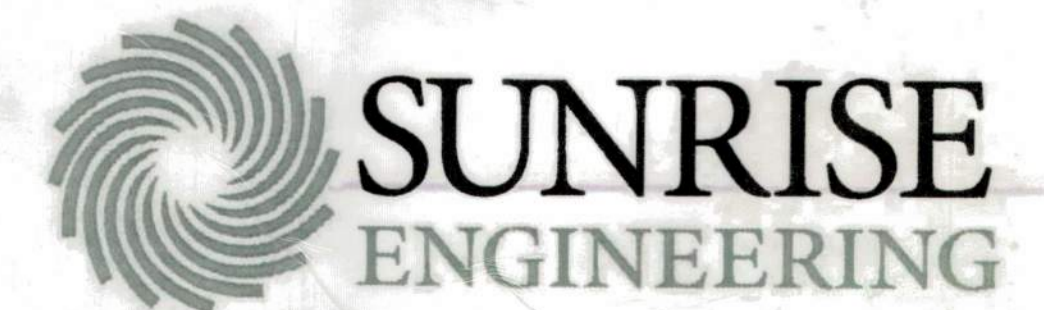
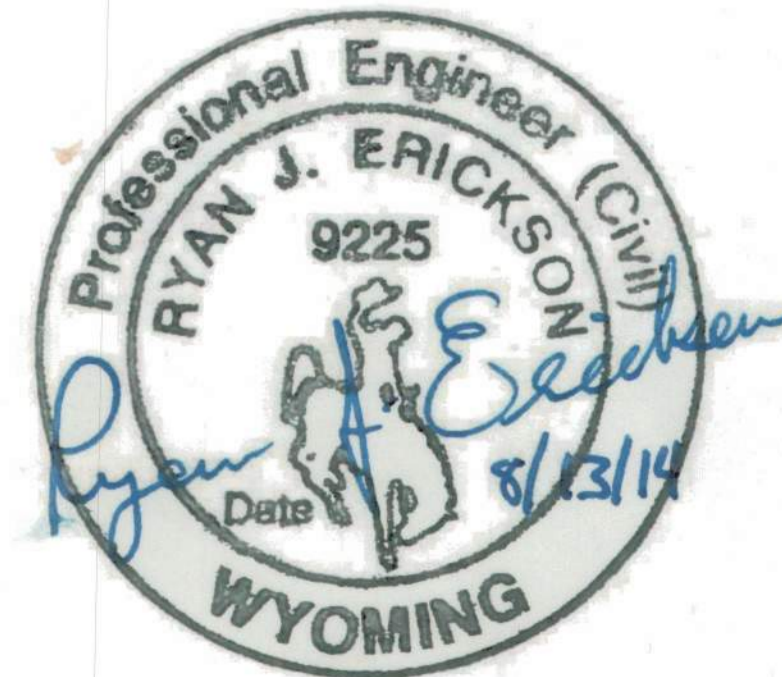
AREA MAP



NOT TO SCALE

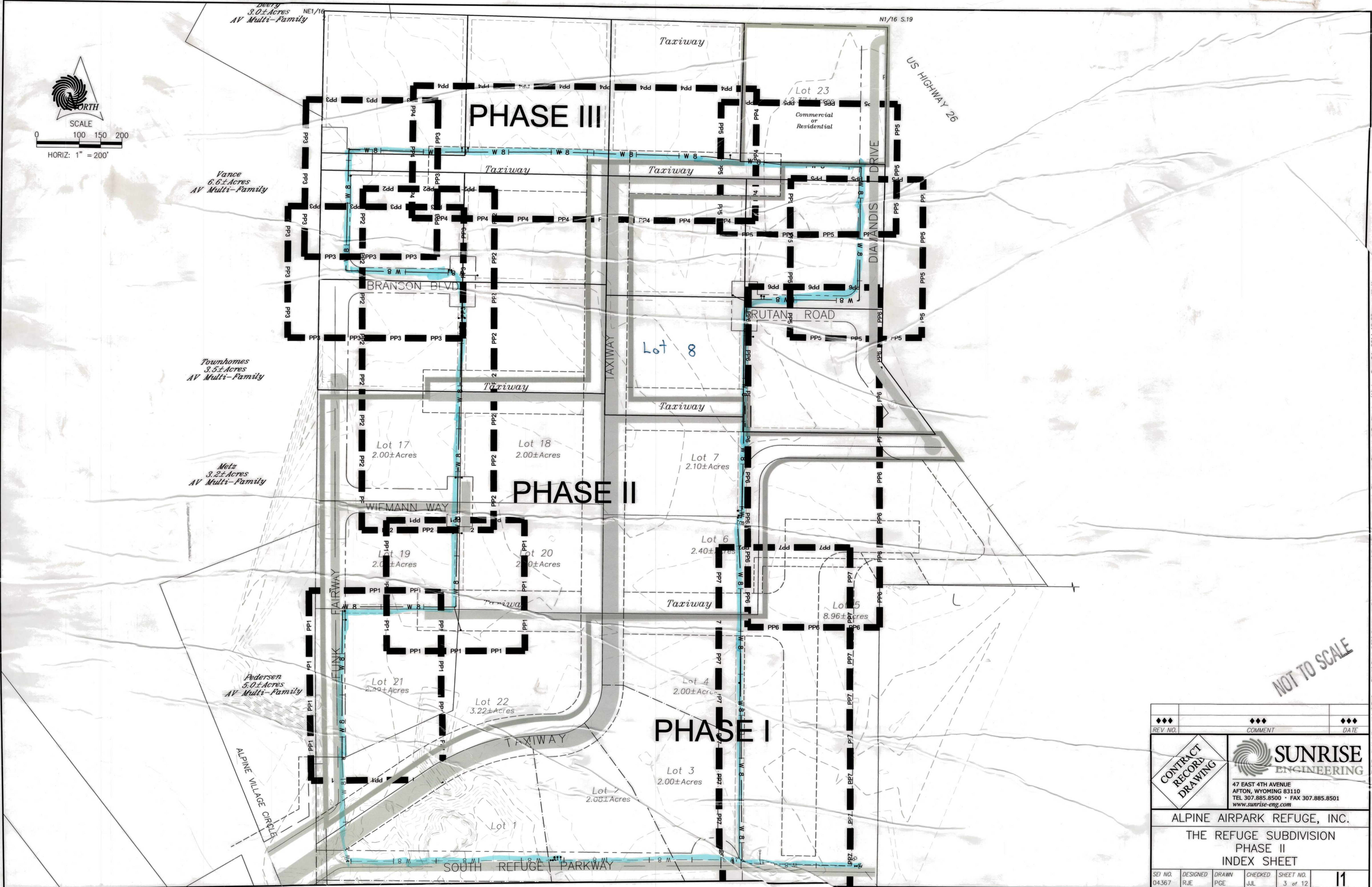
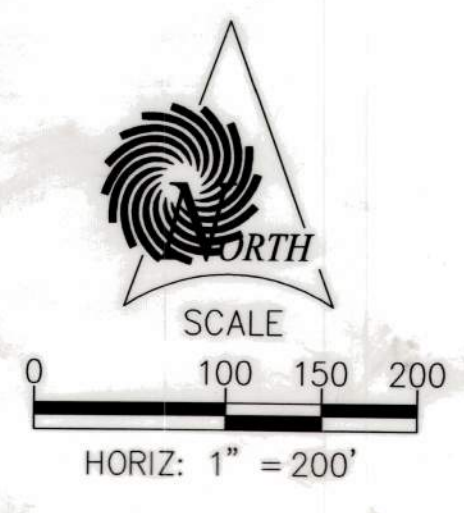
SHEET INDEX

GENERAL	DRAWING No.	SHEET No.
TITLE SHEET, AREA MAP, AND VICINITY MAP	G1	1
SHEET INDEX		
ABBREVIATIONS, CONSTRUCTION NOTES, DESIGN CRITERIA, LEGEND	G2	2
<b>INDEX SHEETS</b>		
INDEX SHEET	I1	3
<b>PLAN &amp; PROFILE SHEETS</b>		
WATER PLAN & PROFILE SHEETS	PP1-PP7	4-10
<b>DETAILS</b>		
WATER DETAILS	D1-D2	11-12



47 EAST 4th AVENUE, P.O. BOX 609  
AFTON, WY 83110  
TEL 307.885.8500 • FAX 307.885.8501  
www.sunrise-eng.com


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REV. NO.	COMMENT	DATE

CONTRACT RECORD DRAWING



**SUNRISE**  
ENGINEERING

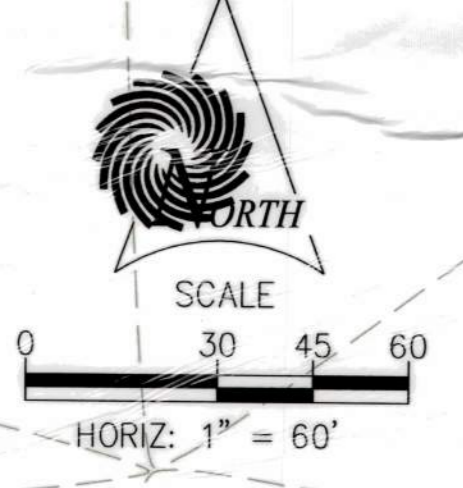
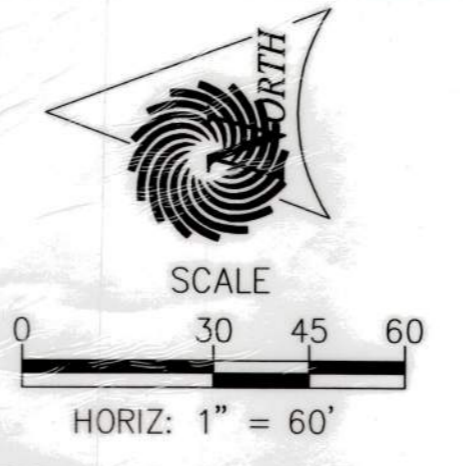
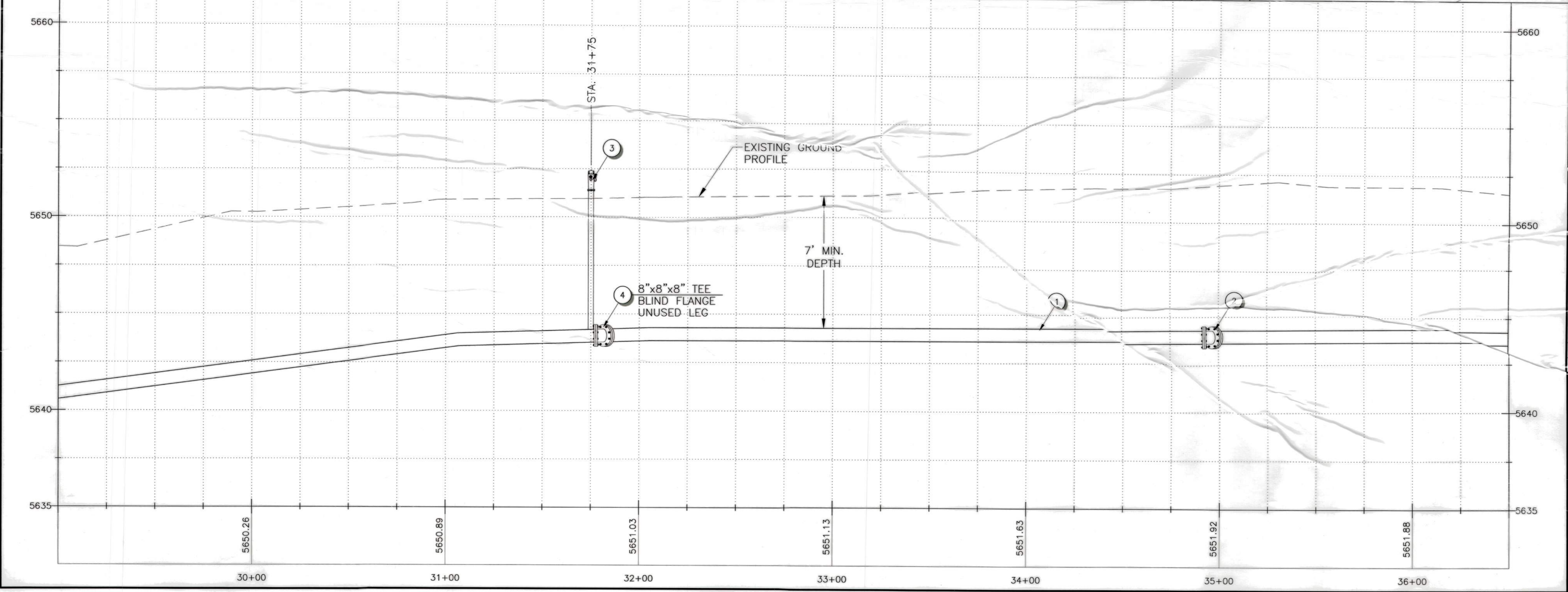
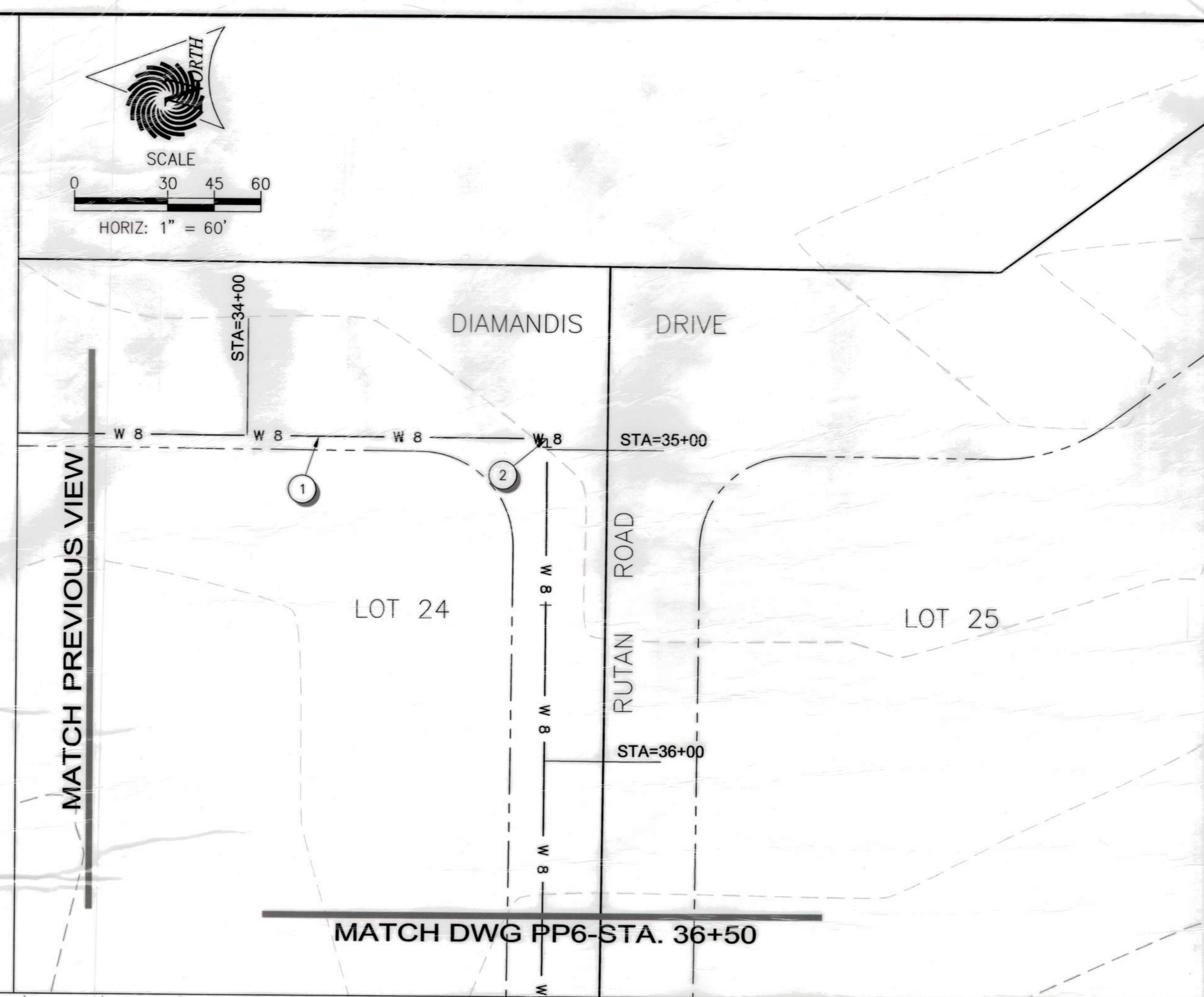
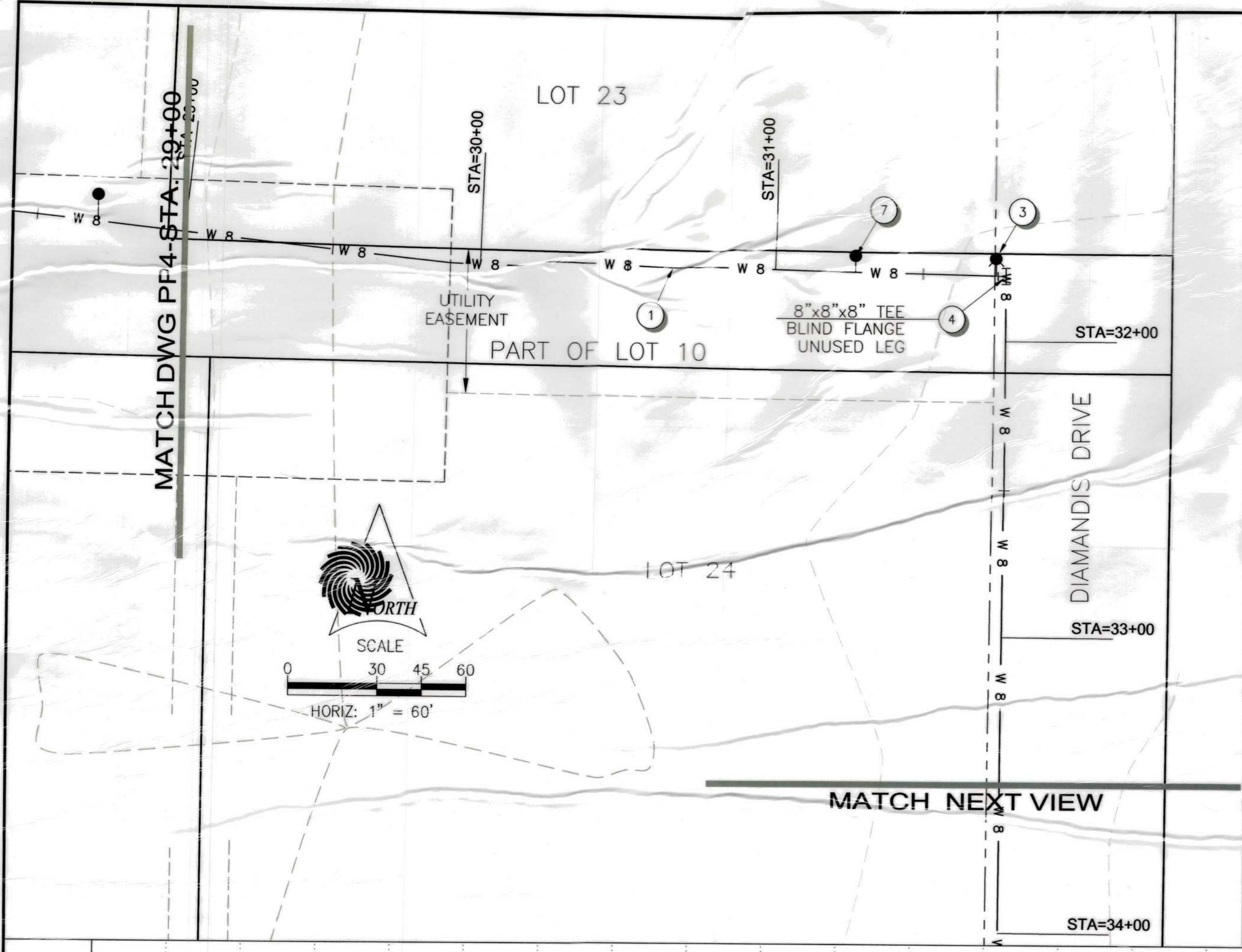
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ALPINE AIRPARK REFUGE, INC.

THE REFUGE SUBDIVISION  
PHASE II  
INDEX SHEET

SEI NO. 04367	DESIGNED RJE	DRAWN PGE	CHECKED JUL	SHEET NO. 3 of 12	11
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- WATER LINE NOTES:**
- ① INSTALL NEW 8" PVC WATERLINE AWWA C900 DR 18 PER DETAIL B & D/D1.
  - ② INSTALL 8" D.I. BEND (90°, 45°, 22½°, ETC. W/THRUST BLOCK SEE DETAIL A/D1.
  - ③ INSTALL NEW FIRE HYDRANT PER DETAIL C/D1.
  - ④ INSTALL 8" TEE & THRUSTBLOCK, SEE DETAIL A/D1. BLIND FLANGE UNUSED LEG.
  - ⑤ INSTALL GATE VALVE PER DETAIL E/D1.
  - ⑥ CONNECT TO EXISTING 8" PIPELINE (NORTH STAR UTILITY SYSTEM), INSTALLED FOR PHASE I.
  - ⑦ INSTALL SERVICE CONNECTION PER DETAIL F/D2.

**NOT TO SCALE**

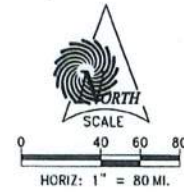
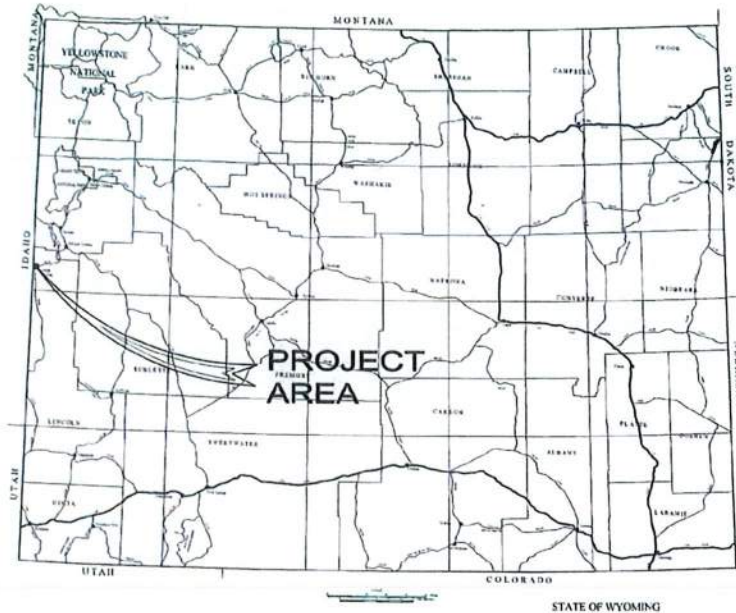
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1	REVISED ALIGNMENT & PROFILE	4-8-14
NO.	COMMENT	DATE
<b>SUNRISE ENGINEERING</b> 47 EAST 4TH AVENUE AFTON, WYOMING 82401 TEL 307.885.8500 • FAX 307.885.8501 www.sunrise-eng.com		
ALPINE AIRPARK REFUGE, INC.		
THE REFUGE SUBDIVISION PHASE II WATER PLAN & PROFILE		
SEE NO. 04367	DESIGNED RJE	DRAWN PGE
CHECKED JUL	SHEET NO. 8 of 12	<b>PP5</b>

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# PROJECT USED IN IDENTIFYING EXISTING CONDITIONS

## ALPINE LAKES COMMERCIAL CENTER, LLC ALPINE LAKES WELL AND WELL HOUSE CONTRACT RECORD DRAWINGS

AREA MAP



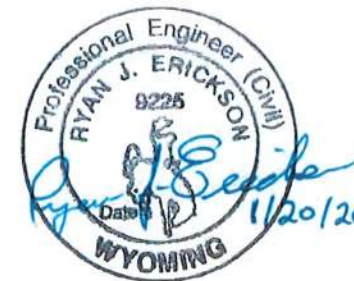
VICINITY MAP



SCALE: 1" = 4000'

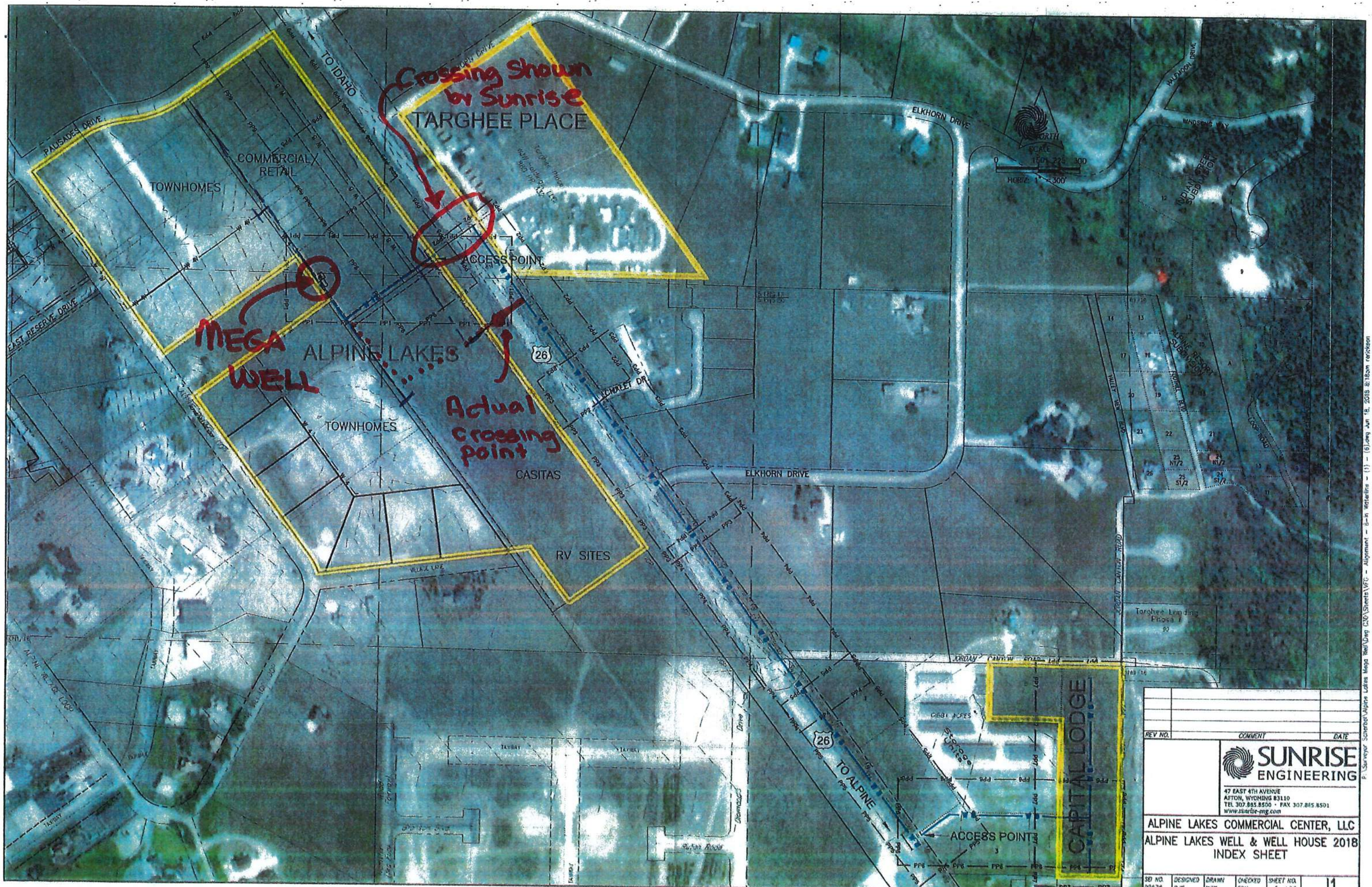
SHEET INDEX

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REV NO.	COMMENT	DATE



**SUNRISE ENGINEERING**

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**ALPINE LAKES COMMERCIAL CENTER, LLC**  
**ALPINE LAKES WELL & WELL HOUSE 2018**  
**INDEX SHEET**

SET NO. 00676	DESIGNED RJC	DRAWN PGE	CHECKED FDK	SHEET NO. 3 of 25	11
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