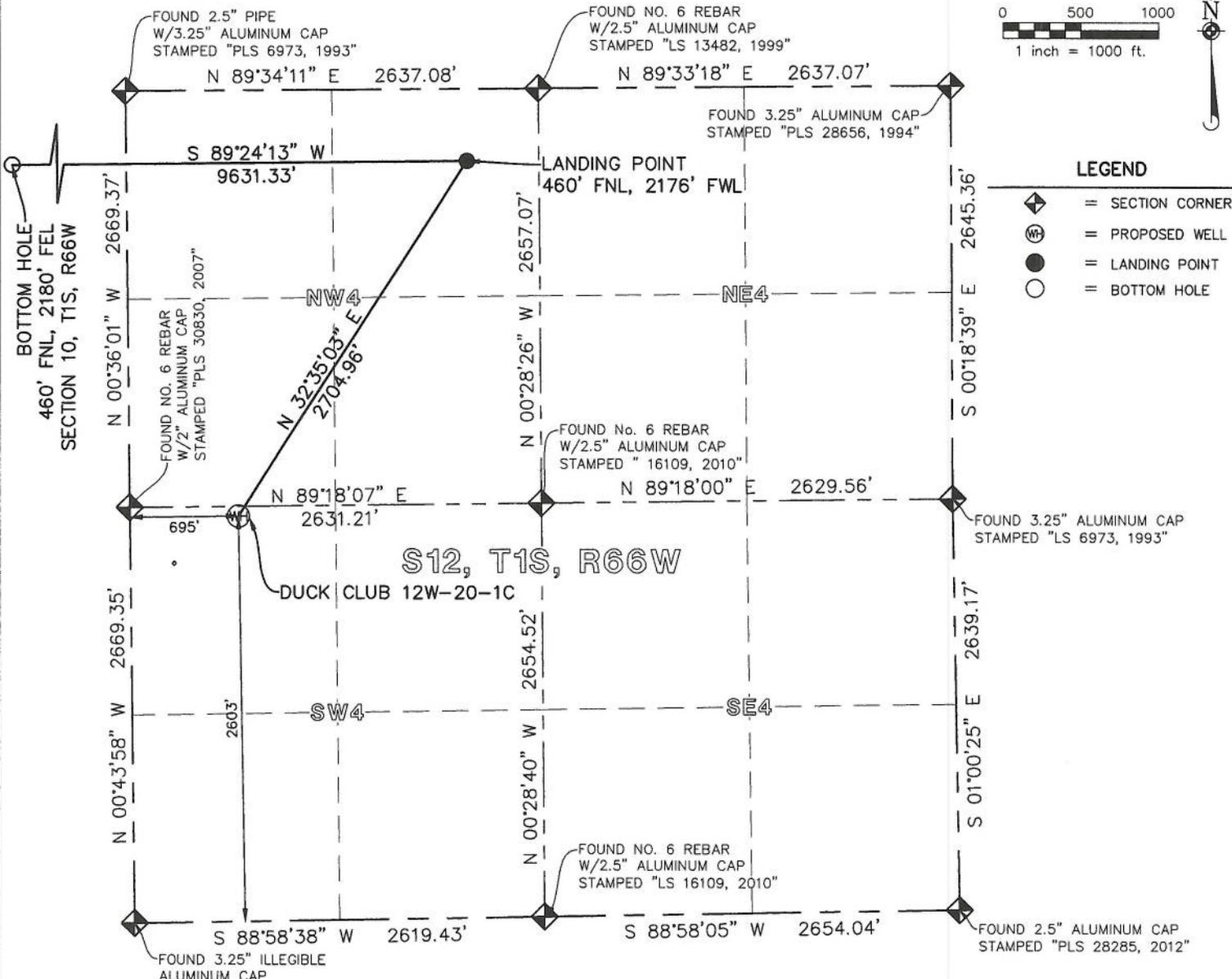
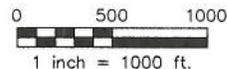


SECTION: 12
 TOWNSHIP: 1 SOUTH
 RANGE: 66 WEST

WELL LOCATION CERTIFICATE

DUCK CLUB 12W-20-1C

SHEET 1 OF 3



LEGEND

- = SECTION CORNER
- = PROPOSED WELL
- = LANDING POINT
- = BOTTOM HOLE

IN ACCORDANCE WITH A REQUEST FROM CHRIS SIMMONS OF EXTRACTION OIL & GAS, LLC., MANHARD CONSULTING HAS DETERMINED THE SURFACE LOCATION OF THE DUCK CLUB 12W-20-1C WELL TO BE 2603' FSL, 695' FWL, AS MEASURED AT NINETY (90) DEGREES FROM THE SECTION LINES OF SECTION 12, TOWNSHIP 1 SOUTH, RANGE 66 WEST, AND THE BOTTOM HOLE LOCATION TO BE 460' FNL, 2180' FEL, AS MEASURED AT NINETY (90) DEGREES FROM THE SECTION LINES OF SECTION 10, TOWNSHIP 1 SOUTH, RANGE 66 WEST, OF THE SIXTH PRINCIPAL MERIDIAN, ADAMS COUNTY, COLORADO.

I HEREBY STATE THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE WORK WAS COMPLETED ON 10/12/2017 FOR AND ON BEHALF OF EXTRACTION OIL & GAS, LLC., AND THAT THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY, IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT AND IT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCE, BUILDING OR OTHER FUTURE IMPROVEMENT LINES.

NAD 83 LATITUDE AND LONGITUDE	
SURFACE LOCATION:	LANDING POINT:
LATITUDE: N39.97945	LATITUDE: N39.98567
LONGITUDE: W104.73093	LONGITUDE: W104.72566
ELEVATION: 5037	
PPOP: 1.6	BOTTOM HOLE:
QTR/QTR: NW4/SW4	LATITUDE: N39.98562
	LONGITUDE: W104.76003

NEAREST CULTURAL ITEMS:	
BUILDING:	1425'± W
BUILDING UNIT:	1425'± W
HIGH OCC. BLDG UNIT:	4191'± W
DES. OUTSIDE ACTIVITY AREA:	5280'+
PUBLIC ROAD:	2600'± S
ABOVE GROUND UTILITY:	808'± SW
RAILROAD:	785'± NW
PROPERTY LINE:	190'± NW



BRIAN J. PFOHL, PLS 38445
 FOR AND ON BEHALF OF
 MANHARD CONSULTING

NOTES:

- 1) BASIS OF BEARINGS: THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 1 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN IS ASSUMED TO BEAR NORTH 00°43'58" WEST BETWEEN THE FOUND MONUMENTS AS SHOWN AND DESCRIBED HEREON.
- 2) HORIZONTAL DATUM IS NAD83.
- 3) VERTICAL DATUM IS NAVD88 AND ORIGINATES FROM THE TRIMBLE VRS NETWORK, UTILIZING THE GEOID12B MODEL.
- 4) SEE LOCATION DRAWING FOR VISIBLE IMPROVEMENTS WITHIN 500' OF PROPOSED DISTURBED AREA.
- 5) INS. OPERATOR: KEITH TAPHORN

PREPARED BY: 	FIELD DATE: 10/12/2017	PARCEL ID: 0156900000278	PREPARED FOR:
	DRAWING DATE: 03/27/2018	SURFACE LOCATION: THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 1 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, ADAMS COUNTY, COLORADO	

SECTION: 12
 TOWNSHIP: 1 SOUTH
 RANGE: 66 WEST

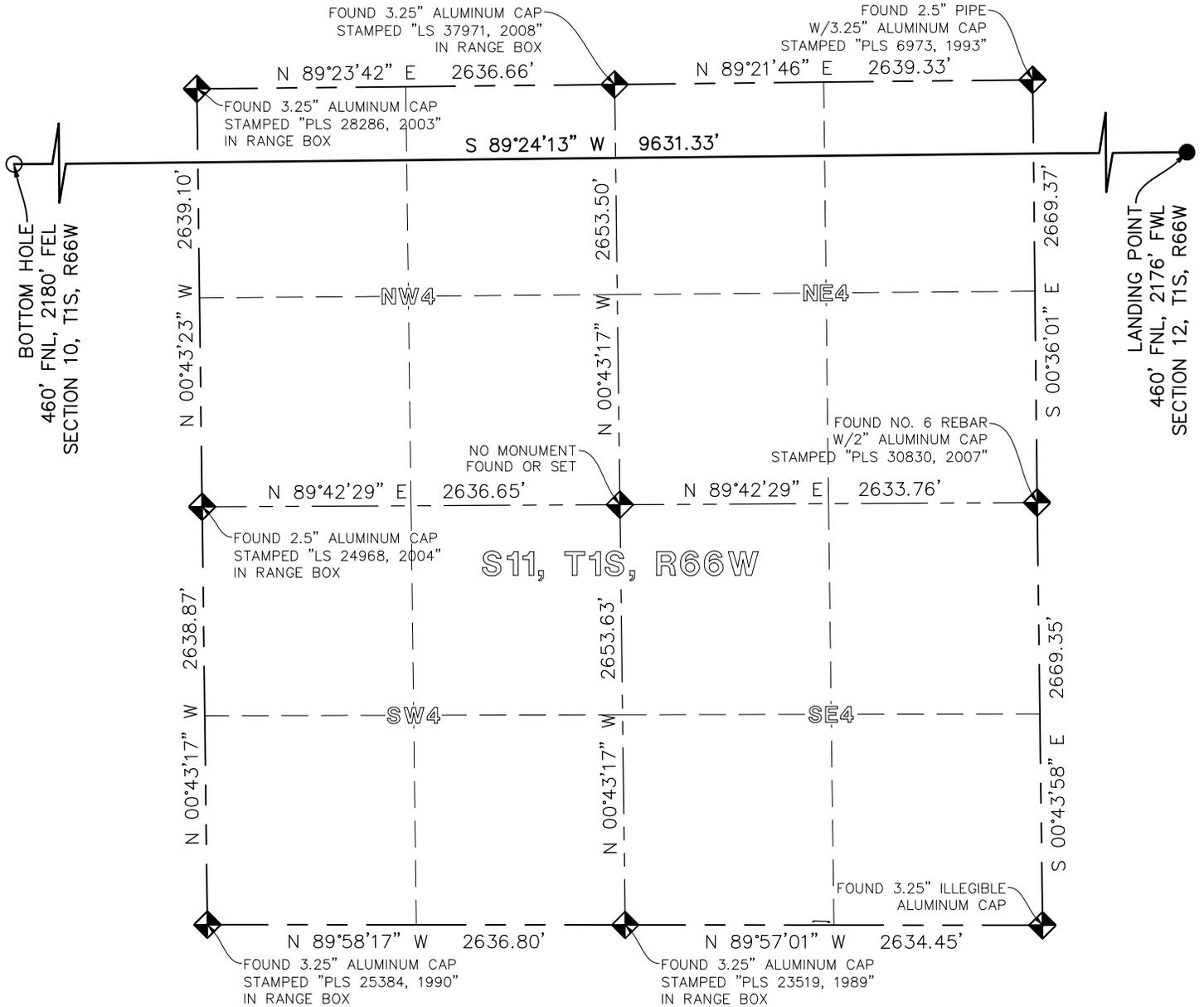
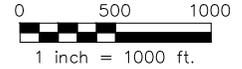
WELL LOCATION CERTIFICATE

DUCK CLUB 12W-20-1C

SHEET 2 OF 3

LEGEND

-  = SECTION CORNER
-  = PROPOSED WELL
-  = LANDING POINT
-  = BOTTOM HOLE



PREPARED BY:



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FIELD DATE:

10/12/2017

DRAWING DATE:

03/27/2018

DRAWN BY:

BJP

CHECKED BY:

BJP

PARCEL ID:

015690000278

SURFACE LOCATION:

THE NORTHWEST QUARTER OF THE
 SOUTHWEST QUARTER OF SECTION 12,
 TOWNSHIP 1 SOUTH, RANGE 66 WEST OF
 THE SIXTH PRINCIPAL MERIDIAN,
 ADAMS COUNTY, COLORADO

PREPARED FOR:



SECTION: 12
 TOWNSHIP: 1 SOUTH
 RANGE: 66 WEST

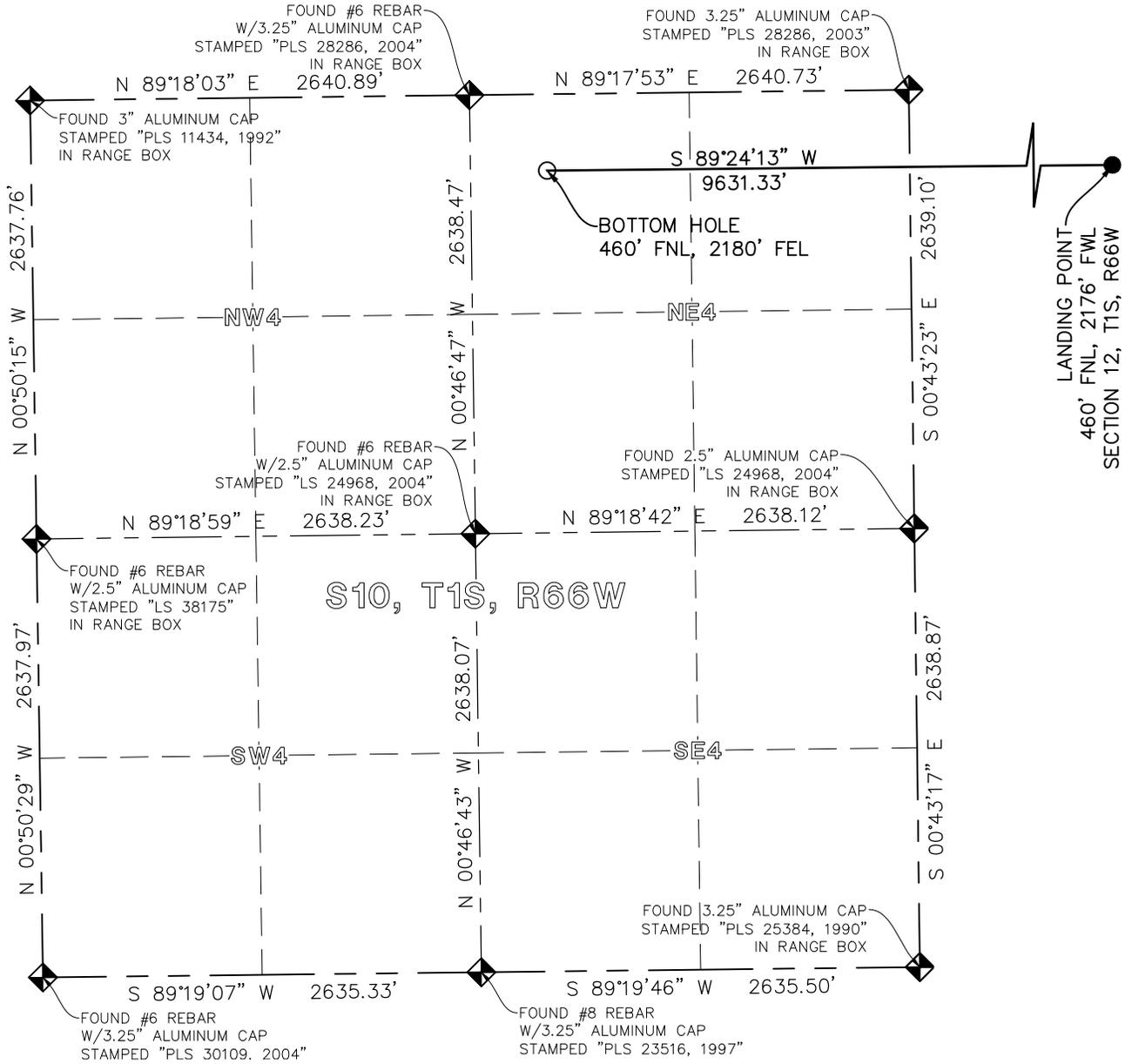
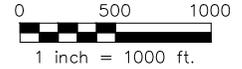
WELL LOCATION CERTIFICATE

DUCK CLUB 12W-20-1C

SHEET 3 OF 3

LEGEND

-  = SECTION CORNER
-  = PROPOSED WELL
-  = LANDING POINT
-  = BOTTOM HOLE



PREPARED BY: 	FIELD DATE: 10/12/2017 DRAWING DATE: 03/27/2018 DRAWN BY: BJP CHECKED BY: BJP	PARCEL ID: 015690000278 SURFACE LOCATION: THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 1 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, ADAMS COUNTY, COLORADO	PREPARED FOR: 
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