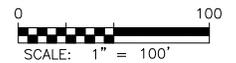
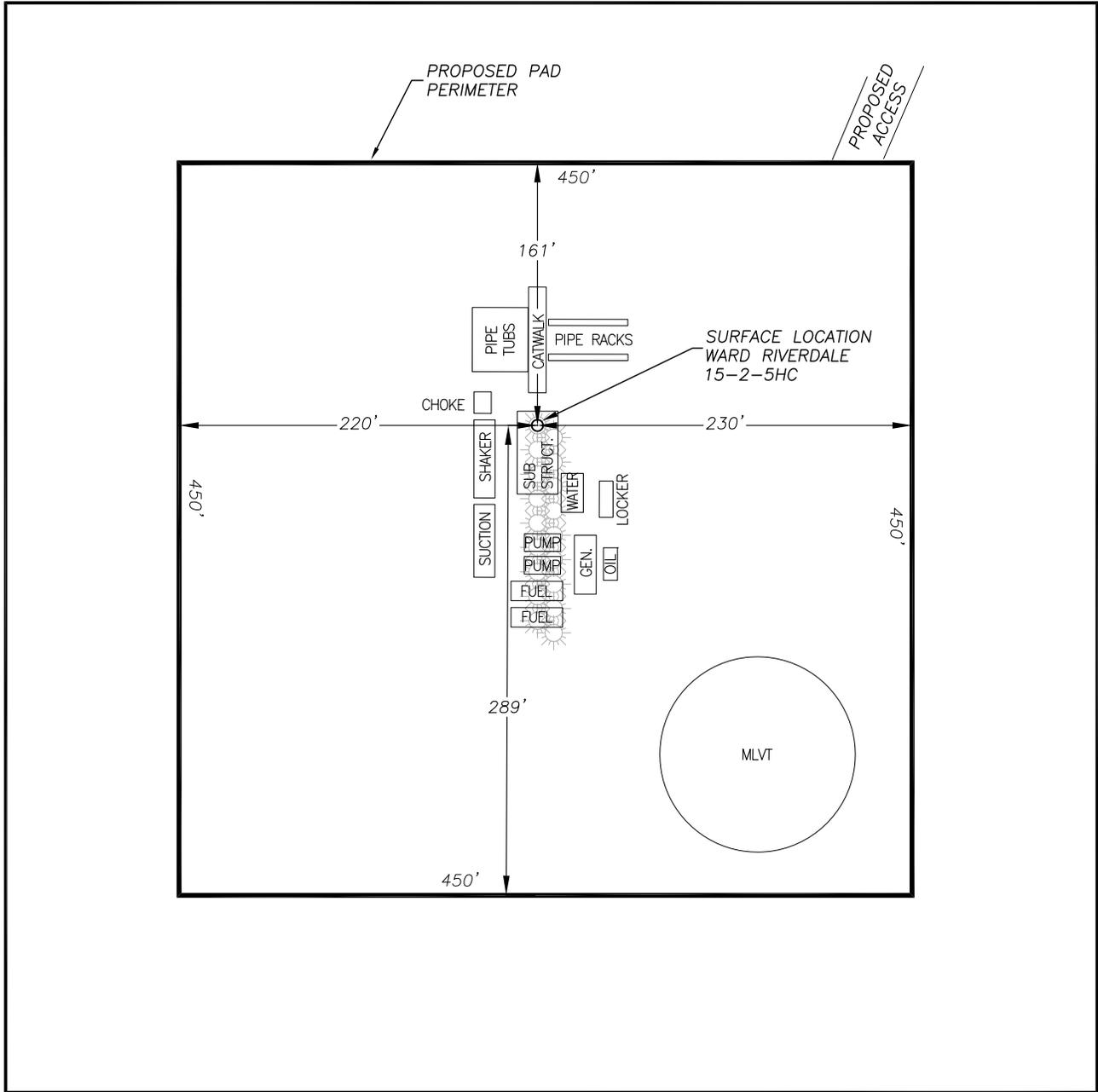


PROPOSED RIG LAYOUT WARD RIVERDALE 15-2-5HC WELL PAD

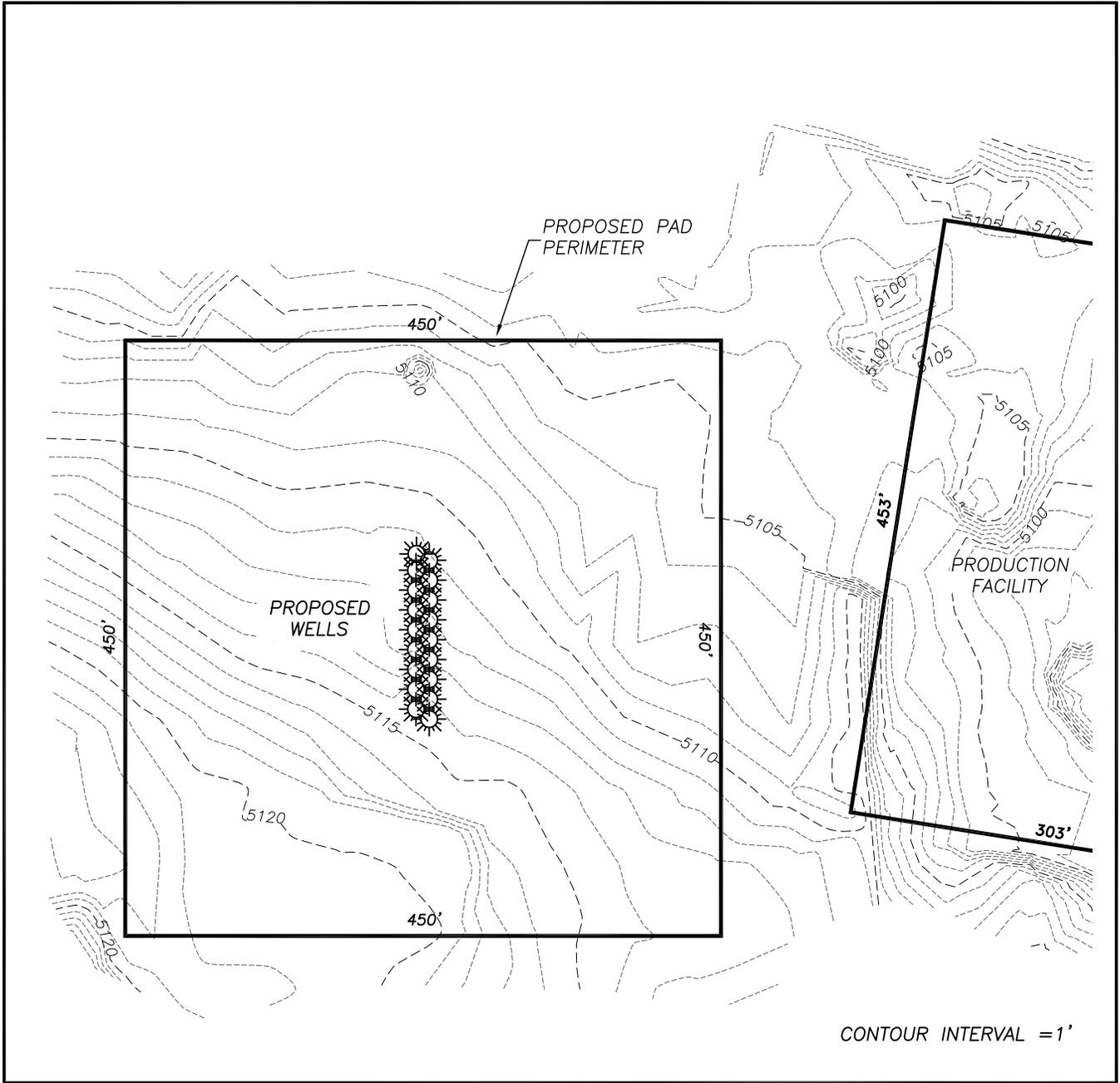
SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



EXISTING CONTOURS

WARD RIVERDALE 15-2-5HC WELL PAD

SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



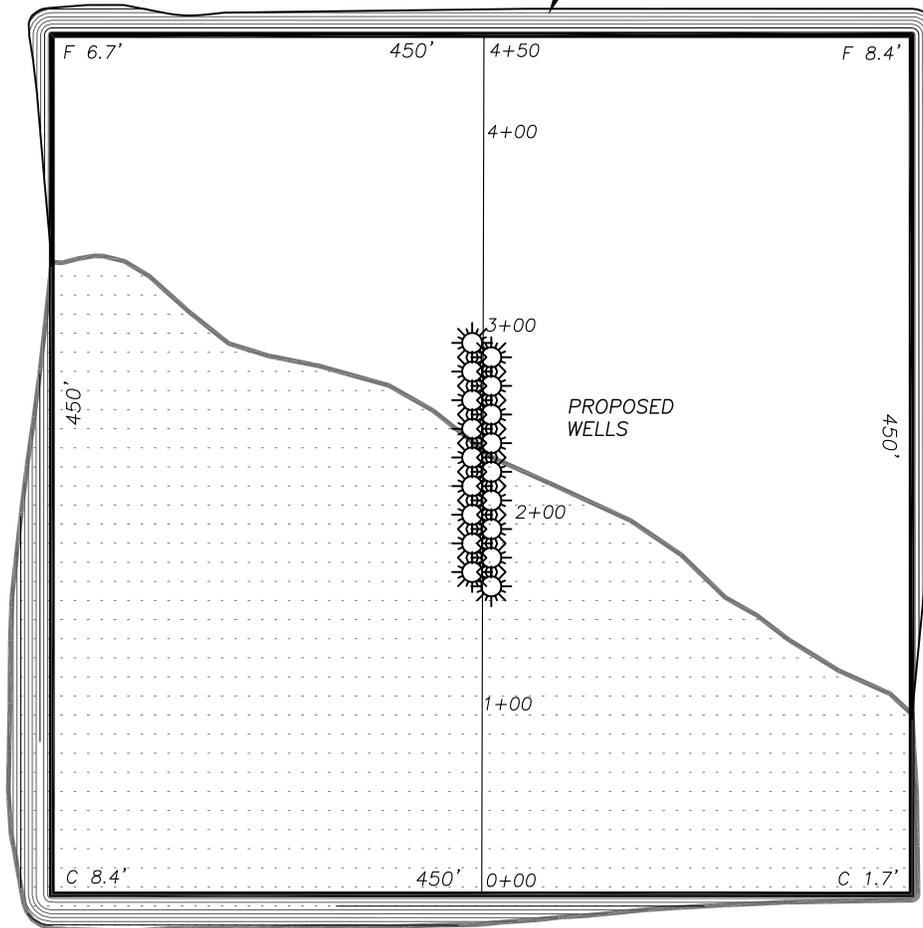
PROPOSED WELL PAD CONTOURS
WARD RIVERDALE 15-2-5HC WELL PAD

SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



PROPOSED
ACCESS

PROPOSED
GRADING
LIMITS



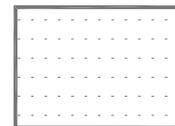
CONTOUR INTERVAL = 1'

PROPOSED WELL PAD

Top of pad elevation: 5111.9'
 Cut slope ratio: 2.0
 Fill slope ratio: 2.0
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

PAD EARTHWORK VOLUMES

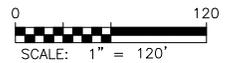
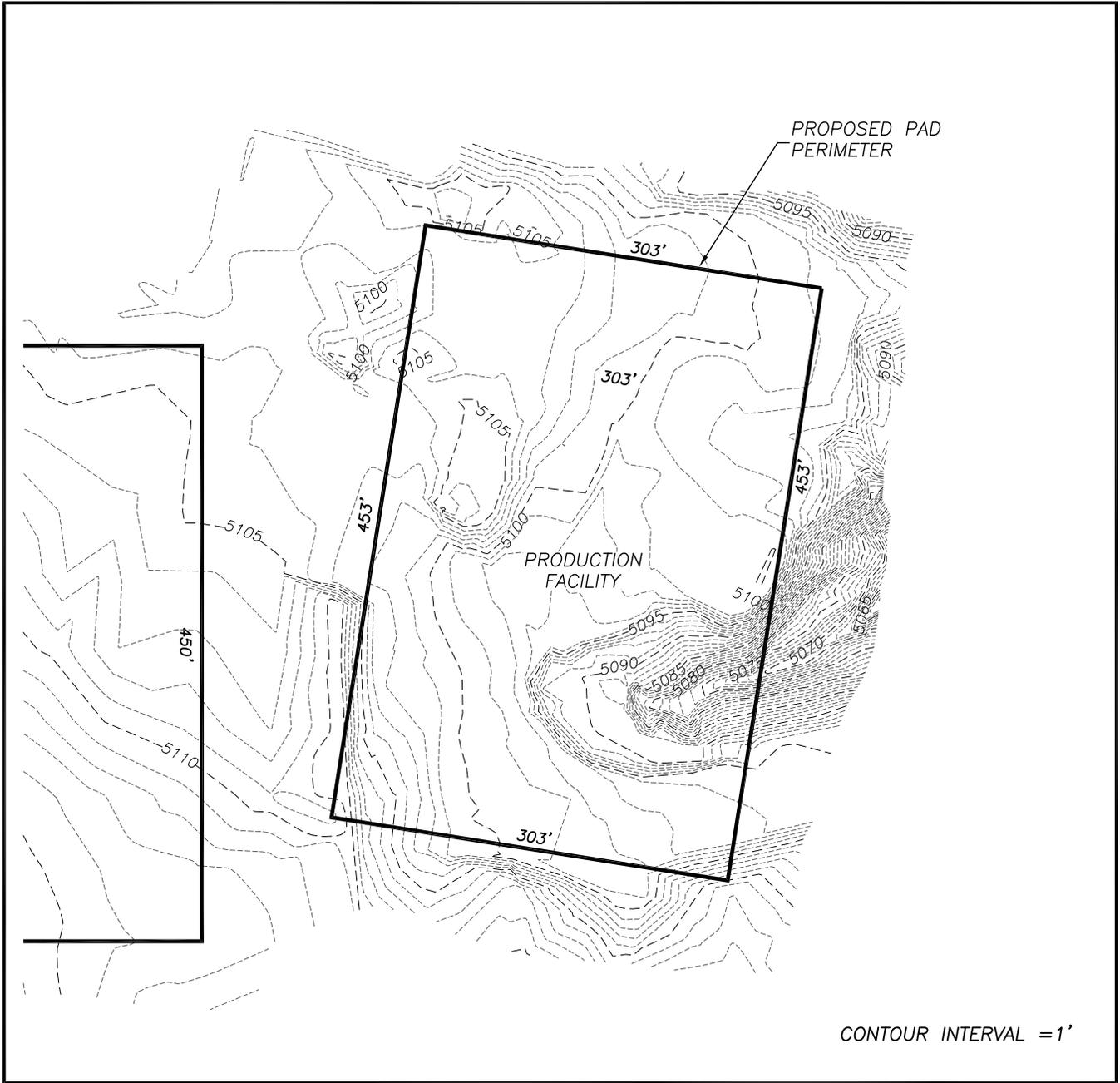
Total cut: 18885± C.Y.
 Total fill: 14584± C.Y.
 Balance Export: 4300± C.Y.
 (6" Topsoil)
 Area: 5.2 Acres



AREA OF
PROPOSED CUT

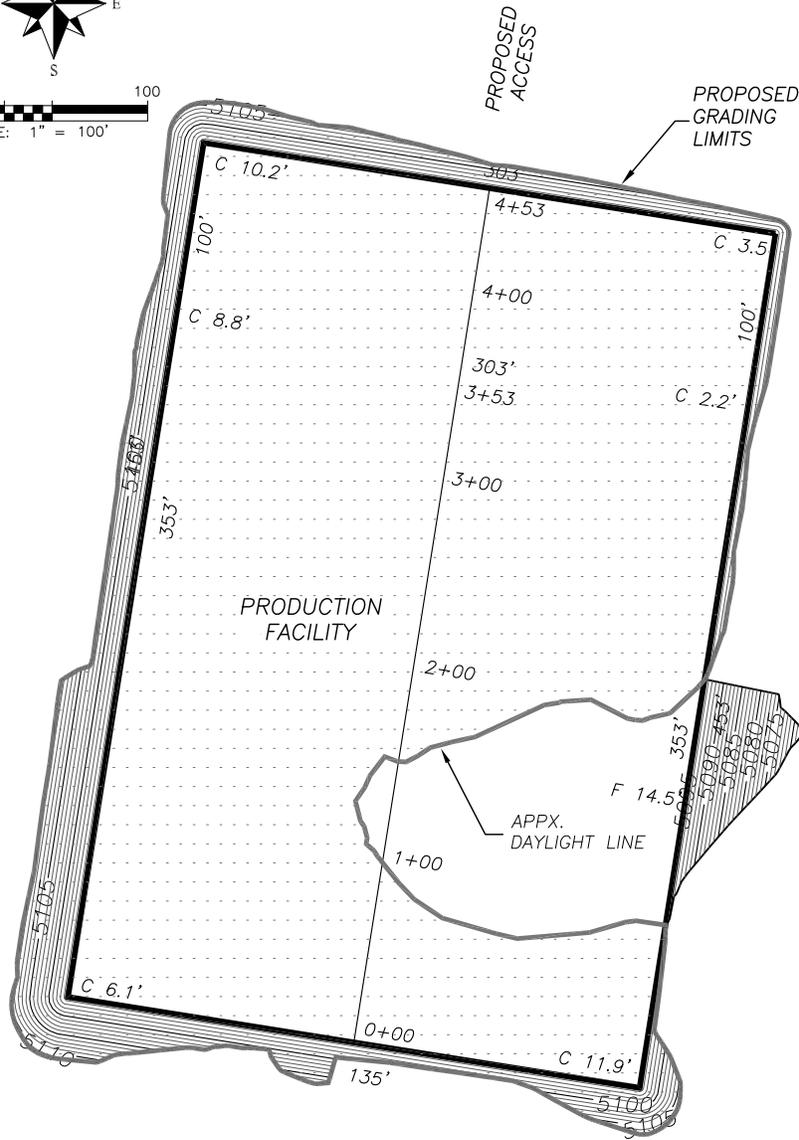
EXISTING CONTOURS WARD RIVERDALE PRODUCTION FACILITY

SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



PROPOSED WELL PAD CONTOURS WARD RIVERDALE PRODUCTION FACILITY

SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



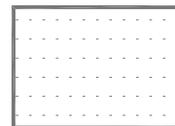
PROPOSED PRODUCTION PAD

Top of pad elevation: 5095.0'
 Cut slope ratio: 2.0
 Fill slope ratio: 2.0
 Cut Swell Factor: 1.00
 Fill Shrink Factor: 1.00

PAD EARTHWORK VOLUMES

Total cut: 28363± C.Y.
 Total fill: 5700± C.Y.
 Balance Export: N/A C.Y.
 (6" Topsoil)
 Area: 3.7 Acres

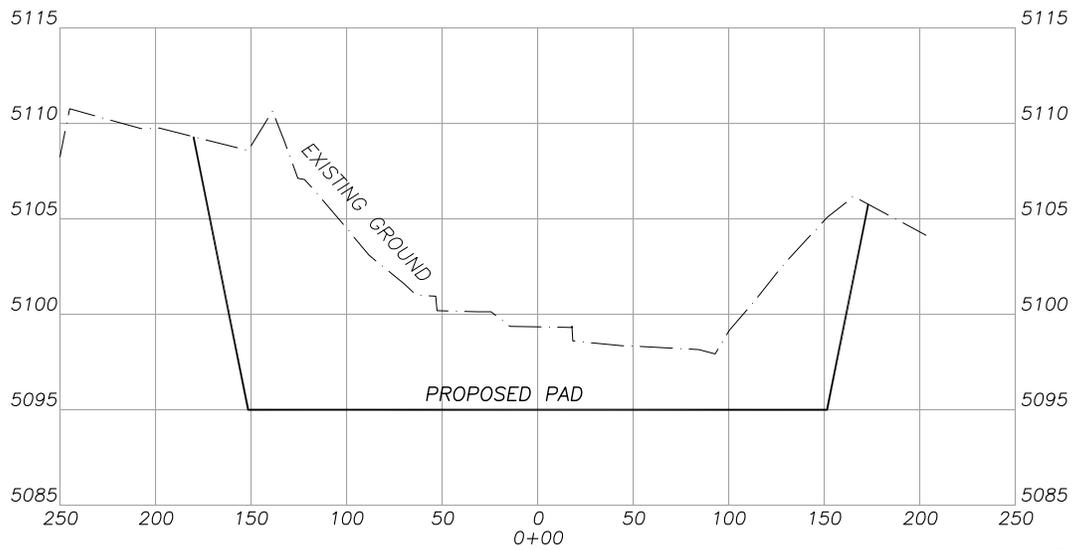
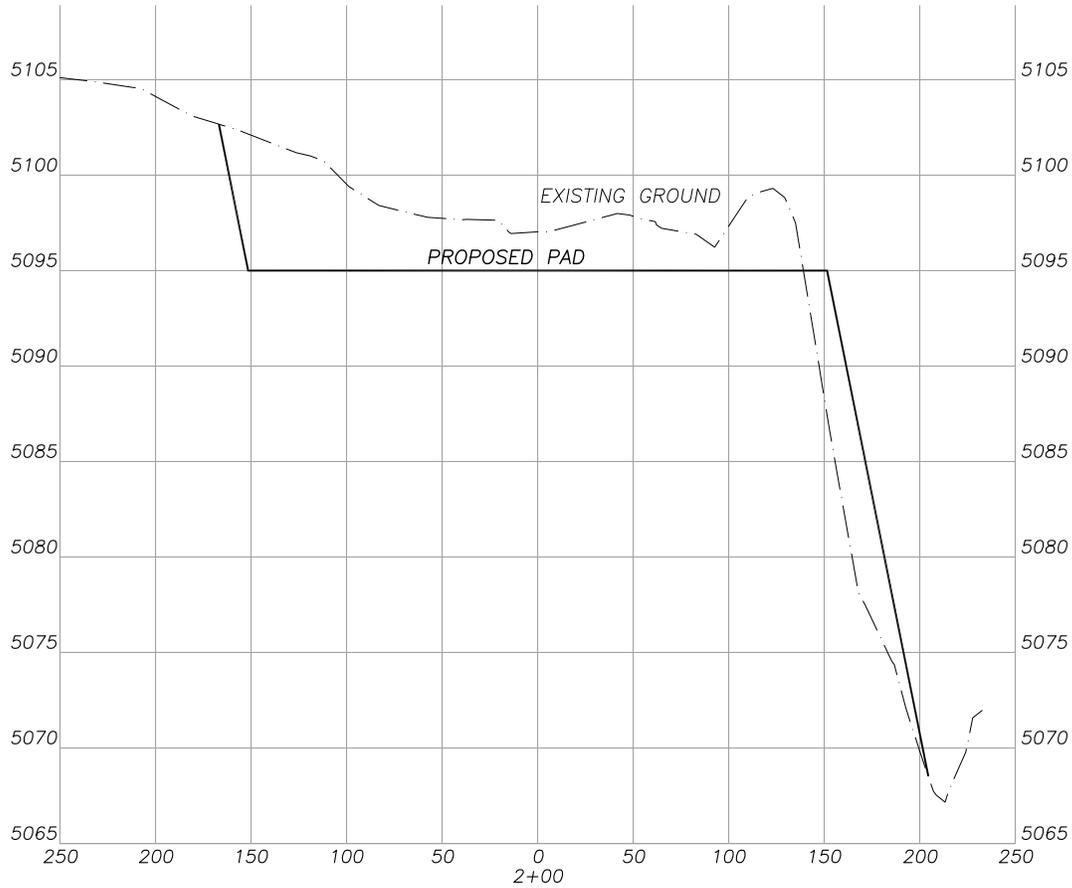
CONTOUR INTERVAL = 1'



AREA OF
PROPOSED CUT

PROPOSED PAD CROSS SECTIONS WARD RIVERDALE PRODUCTION FACILITY

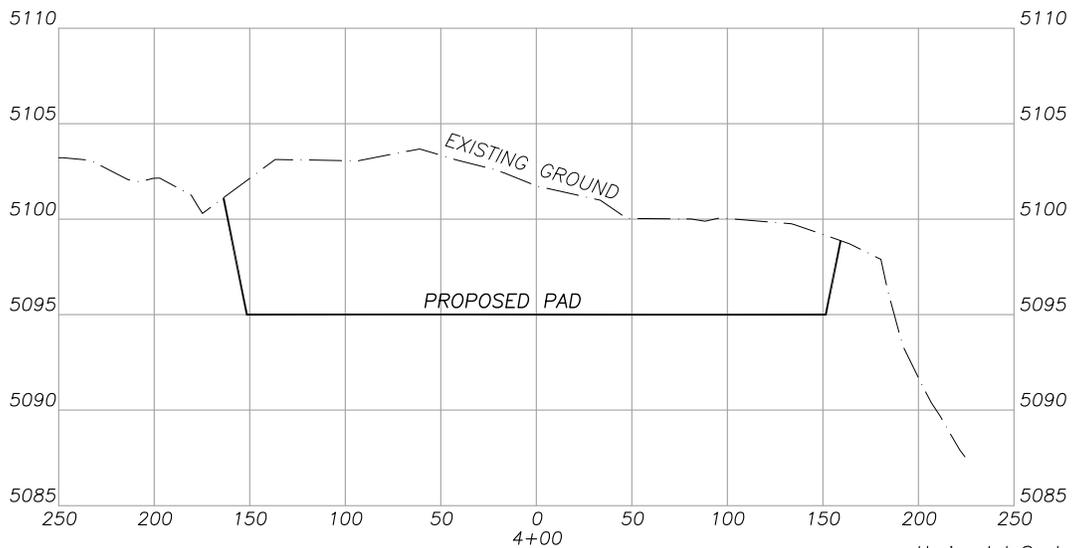
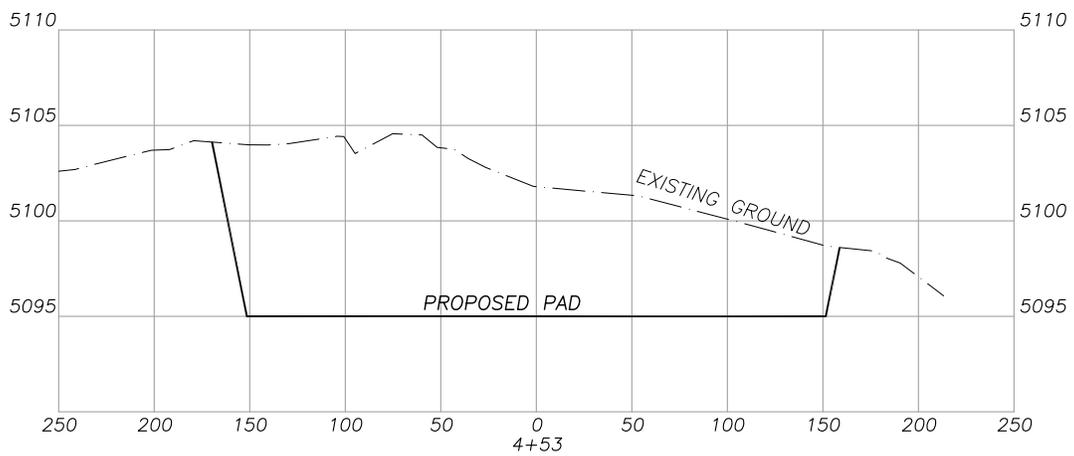
SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



Horizontal Scale 50
Vertical Scale 5

PROPOSED PAD CROSS SECTIONS WARD RIVERDALE PRODUCTION FACILITY

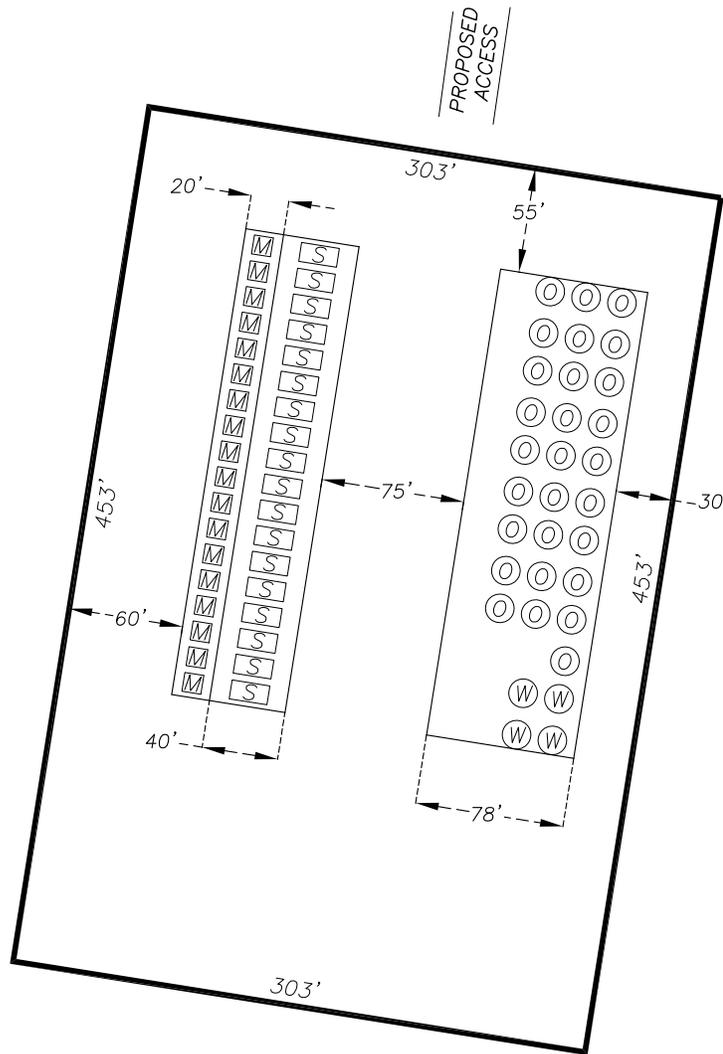
SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



Horizontal Scale 50
Vertical Scale 5

PROPOSED FACILITIES LAYOUT WARD RIVERDALE PRODUCTION FACILITY

SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



PRODUCTION FACILITY
PAD 3.2 AC±

LEGEND

- OIL TANK
- ⊙ WATER TANK
- S SEPARATOR
- ⊞ M METER

