STORM WATER RETENTION AREA
BOTTOM OF POND ELEV=1802.30
MIN. TOP OF POND ELEV=1804.30
VOLUME=19,230 CU FT

PROPOSED 45' WIDE
DRAINAGE EASEMENT

STORM WATER RETENTION AREA
BOTTOM OF POND ELEV=1798.00
MIN. TOP OF POND ELEV=1799.00
VOLUME=71,000 CU FT

N1/4 Corner Section 31
Found Iron Pin w/ Alum.
Cap Stamped Interstate Eng.
EP: 1+74.06

Basis of Bearing (Assumed)
S89°57'45"E

55th Street NW

1/4 Line

Monumented Center of Section 31
Found Iron Pin w/ Alum. Cap
Stamped Interstate Eng.

15' Walking Trail

A Street

B Street

C Street

D Street

EP: 22+23.72

BP: 21+74.76

INSTALL 340 LF OF SWALE @ 0.30% SLOPE, MIN. DEPTH=2' SEE DETAIL 3, SHEET R6.0

PROPOSED 30' WIDE DRAINAGE EASEMENT

INSTALL 25 LF OF 18" CSP CULVERT @ TRAIL CROSSINGS (BOTH SIDES)

INSTALL 180 LF OF SWALE @ 0.50% SLOPE, MIN. DEPTH=2.5' SEE DETAIL 3, SHEET R6.0

INSTALL 57 LF OF 7'x4' CSP CULVERT @ 1.02% SLOPE FL NE=99.45, FL SW=98.88

INSTALL 54 LF OF 7'x4' CSP CULVERT @ 0.50% SLOPE FL N=4.88, FL S=4.58

INSTALL 56 LF OF 18" CSP CULVERT @ 0.51% SLOPE FL E=3.57, FL W=3.30

INSTALL 60 LF OF 64"x43" CSP CULVERT @ 1.02% SLOPE FL E=8.00, FL W=5.40

INSTALL 60 LF OF 18" CSP CULVERT @ 1.38% SLOPE FL E=18.38, FL W=17.55

INSTALL 837 LF OF SWALE @ 0.25% SLOPE, MIN. DEPTH=2.5' SEE DETAIL 3, SHEET R6.0

INSTALL 25 LF OF 18" CSP CULVERT @ TRAIL CROSSING

INSTALL 60 LF OF 18" CSP CULVERT @ 1.38% SLOPE FL E=13.14, FL W=12.61

INSTALL 502 LF OF SWALE @ 1.44% SLOPE, MIN. DEPTH=2' SEE DETAIL 3, SHEET R6.0

INSTALL 53 LF OF 60"x43" CSP CULVERT @ 1.02% SLOPE FL E=13.14, FL W=12.61

INSTALL 25 LF OF 18" CSP CULVERT @ TRAIL CROSSINGS (BOTH SIDES)

INSTALL 60 LF OF 18" CSP CULVERT @ 1.38% SLOPE FL E=18.76, FL W=18.17

INSTALL 25 LF OF 18" CSP CULVERT @ TRAIL CROSSINGS (BOTH SIDES)

PROPOSED 30' WIDE DRAINAGE EASEMENT

PROPOSED 30' WIDE DRAINAGE EASEMENT

15' Walking Trail

40' R/W

SUBLOT #6 JAMES J & LAURICE JOHNSON

SUBLOT #3 JOE & VAL TRUMPOWER

SUBLOT #2 STEVEN A & KAREN L SCOFIELD

NE Corner Section 31 Found Iron Pin in Asphalt Set Conc. Nail over pin

Section 30-155-100
Section 31-155-100

Section 31-155-100
Section 32-155-100

℄ Williams County Road 9

75' R/W

75' R/W

BP: 0+00.00

BP: 0+00.00

E1/4 Corner Section 31

EXISTING 48" CSP CULVERTS

Section Line

LEGEND

- SURROUNDING PROPERTY LINE
- EASEMENT LINE
- PROPERTY BOUNDARY LINE
- DRAINAGE AREA BOUNDARY
- DRAINAGE DIRECTION
- PROPOSED DRAINAGE DITCH

Scale In Meters: 36 0 36
Scale In Feet: 120 0 120

N

#12240

R7.0

Drawing Date: 5/21/2012

BLACKWOOD SUBDIVISION ROAD PLANS

WILLIAMS COUNTY, NORTH DAKOTA

GRADING AND DRAINAGE PLAN

REVISION:
0 00/00/00

ENGINEER: MAC
DRAWN: CWM

C&H Engineering and Surveying Inc.
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