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LONE TREE ADDITION
CONSTRUCTION PLANS PHASE 1
HARRISBURG, SD

272ND STREET

LONE TREE AVENUE

DUNBAR TRAIL

BLOCK 1

BLOCK 4

BLOCK 7

BLOCK 8

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
15561
MATHEW D.
MARTIN
SOUTH DAKOTA
5/04/2026

8
0.16 AC
FMGE = 1461.70
RMGE = 1460.61

9
0.16 AC
FMGE = 1461.70
RMGE = 1460.95

10
0.16 AC
FMGE = 1461.70
RMGE = 1461.19

11
0.21 AC
FMGE = 1461.70
RMGE = 1461.21

28
0.25 AC
FMGE = 1461.35
RMGE = 1461.14

27
0.23 AC
FMGE = 1461.30
RMGE = 1461.93

26
0.23 AC
FMGE = 1461.30
RMGE = 1462.73

25
0.23 AC
FMGE = 1461.30
RMGE = 1463.53

24
0.23 AC
FMGE = 1461.43
RMGE = 1464.16

23
0.23 AC
FMGE = 1461.91
RMGE = 1464.16

22
0.23 AC
FMGE = 1462.39
RMGE = 1463.34

21
0.23 AC
FMGE = 1462.39
RMGE = 1462.56

20
0.23 AC
FMGE = 1462.39
RMGE = 1461.76

19
0.23 AC
FMGE = 1461.91
RMGE = 1460.96

1
0.25 AC
FMGE = 1462.08
RMGE = 1461.70

14
0.25 AC
FMGE = 1462.84
RMGE = 1461.70

2
0.23 AC
FMGE = 1462.56
RMGE = 1462.11

13
0.23 AC
FMGE = 1463.31
RMGE = 1462.11

3
0.23 AC
FMGE = 1463.04
RMGE = 1462.90

12
0.23 AC
FMGE = 1463.78
RMGE = 1462.90

18
0.31 AC
FMGE = 1462.93
RMGE = 1461.28
MBE = 1451.00

12
0.28 AC
FMGE = 1463.46
RMGE = 1456.92
MBE = 1451.00

11
0.29 AC
FMGE = 1463.97
RMGE = 1456.92

14
0.29 AC
FMGE = 1461.30
RMGE = 1456.92
MBE = 1451.00

15
0.29 AC
FMGE = 1461.30
RMGE = 1456.92
MBE = 1451.00

16
0.29 AC
FMGE = 1461.47
RMGE = 1456.92
MBE = 1451.00

17
0.29 AC
FMGE = 1462.02
RMGE = 1456.92
MBE = 1451.00

18
0.29 AC
FMGE = 1462.57
RMGE = 1456.92
MBE = 1451.00

19
0.29 AC
FMGE = 1462.57
RMGE = 1456.92
MBE = 1451.00

20
0.29 AC
FMGE = 1462.13
RMGE = 1456.92
MBE = 1451.00

21
0.38 AC
FMGE = 1461.57
RMGE = 1456.92
MBE = 1451.00

1
4.96 AC

133.4 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC

143.7 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC

OVERHEAD ELECTRIC ELEVATION 1458.38

-25.03%

-16.84%

0 20 40 80

N

LONE TREE ADDITION
CONSTRUCTION PLANS PHASE 1
HARRISBURG, SD

OVERALL GRADING

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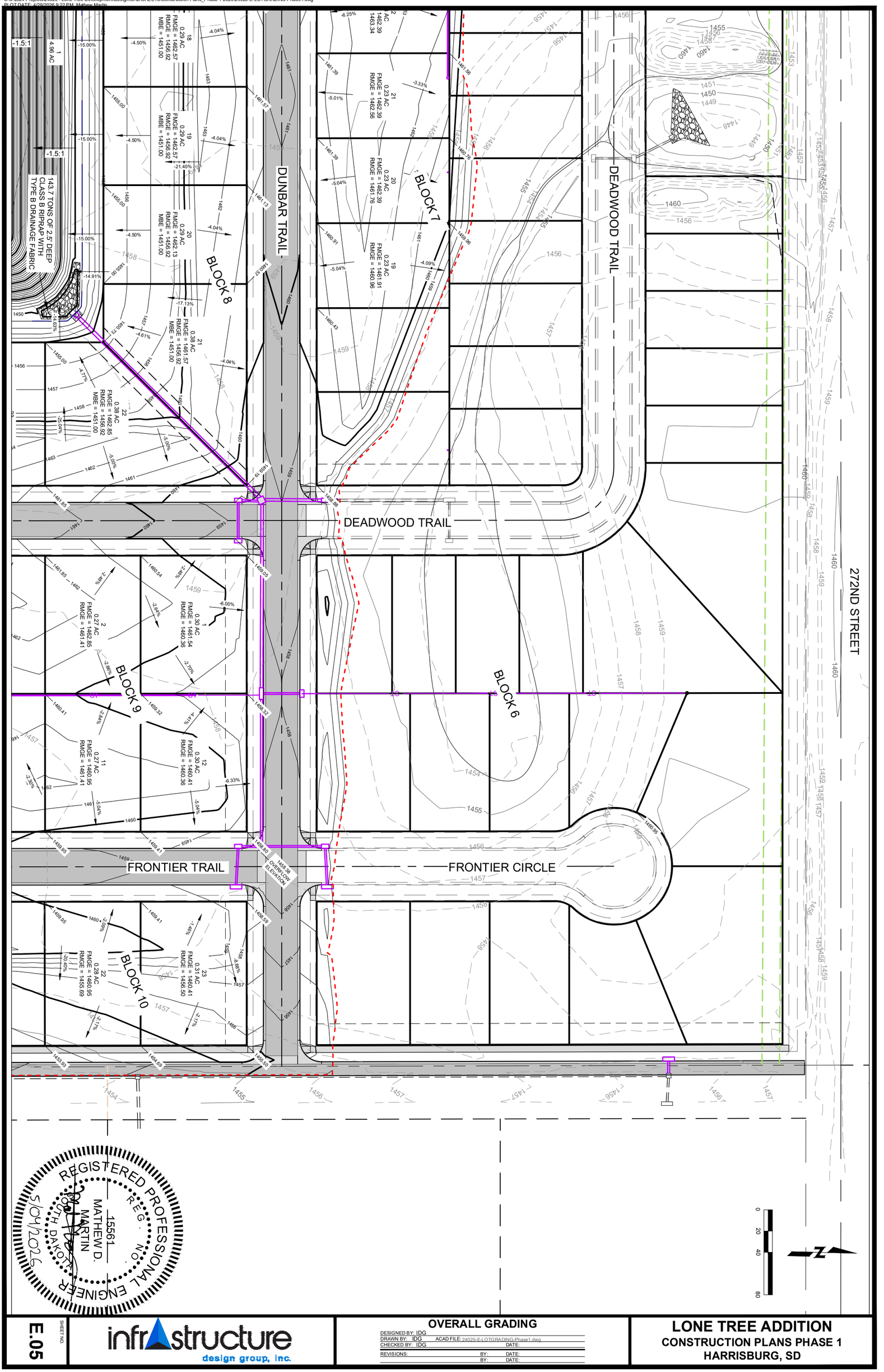

REGISTERED PROFESSIONAL ENGINEER
MATHEW D. MARTIN
REG. NO. 15561
SOUTH DAKOTA
5/04/2026

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LONE TREE ADDITION
CONSTRUCTION PLANS PHASE 1
HARRISBURG, SD

LONE TREE ADDITION
CONSTRUCTION PLANS PHASE 1
HARRISBURG, SD

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REG. NO.
15561
MATHEW D. MARTIN
SOUTH DAKOTA
5/04/2026

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0 20 40 80

DUNBAR TRAIL
DURANGO AVENUE
LONE TREE AVENUE
FRONTIER TRAIL
BLOCK 2
BLOCK 3
BLOCK 4
BLOCK 5
POND B
NORMAL POOL ELEV = 1453.40
115.1 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC
56.5 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC
108.3 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC
15.6 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC

LONE TREE ADDITION
CONSTRUCTION PLANS PHASE 1
HARRISBURG, SD

OVERALL GRADING

LONE TREE AVENUE

FRONTIER TRAIL

BLOCK 4

BLOCK 5

BLOCK 8

BLOCK 10

POND C

1
4.96 AC

133.4 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC

143.7 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC

329.6 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC

48.0 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC

1
4.96 ACRES
-1.5:1

NORMAL POOL ELEV = 1451.00

NORMAL POOL ELEV = 1451.00

NORMAL POOL ELEV = 1451.00

100-YR HWL =1453.48

OVERFLOW ELEVATION 1454.92

OVERFLOW ELEVATION 1454.93

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
15561
MATHEW D.
MARTIN
SOUTH DAKOTA
5/04/2026

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LONE TREE ADDITION
CONSTRUCTION PLANS PHASE 1
HARRISBURG, SD

OVERALL GRADING

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BY:	DATE:
BY:	DATE:
BY:	DATE:

0 20 40 80

N

1 4.96 AC
POND C
143.7 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC
NORMAL POOL ELEV = 1451.00
BLOCK 1
-1.5:1

22 0.38 AC FMGE = 1462.85 RMGE = 1456.92 MBE = 1451.00
23 0.28 AC FMGE = 1463.59 RMGE = 1456.92 MBE = 1451.00
24 0.28 AC FMGE = 1463.59 RMGE = 1456.92 MBE = 1451.00
25 0.28 AC FMGE = 1463.05 RMGE = 1456.92 MBE = 1451.00
26 0.33 AC FMGE = 1461.33 RMGE = 1456.92 MBE = 1451.00
1454.92 OVERFLOW ELEVATION

DEADWOOD AVENUE

BLOCK 9
2 0.27 AC FMGE = 1462.85 RMGE = 1461.41
3 0.27 AC FMGE = 1463.59 RMGE = 1461.41
4 0.27 AC FMGE = 1463.59 RMGE = 1459.51
5 0.27 AC FMGE = 1463.05 RMGE = 1459.61
6 0.32 AC FMGE = 1461.33 RMGE = 1458.80
7 0.32 AC FMGE = 1459.93 RMGE = 1458.80
8 0.27 AC FMGE = 1460.47 RMGE = 1459.61
9 0.27 AC FMGE = 1461.01 RMGE = 1459.51
10 0.27 AC FMGE = 1461.01 RMGE = 1461.41
11 0.27 AC FMGE = 1460.95 RMGE = 1461.41

FRONTIER TRAIL

22 0.28 AC FMGE = 1460.95 RMGE = 1455.69
21 0.28 AC FMGE = 1461.01 RMGE = 1455.28
20 0.38 AC FMGE = 1461.01 RMGE = 1455.28
19 0.06 AC
18 0.31 AC FMGE = 1460.16 RMGE = 1455.97
17 0.46 AC FMGE = 1459.55 RMGE = 1455.97

TOM SAWYER TRAIL

4 0.31 AC GE = 1459.49 GE = 1456.92 E = 1451.00
3 0.31 AC FMGE = 1458.21 RMGE = 1456.92 MBE = 1451.00
2 0.32 AC FMGE = 1457.07 RMGE = 1456.92 MBE = 1451.00

FRONTIER TRAIL

329.6 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC
10 0.17 AC FMGE = 1454.92 RMGE = 1453.48
100-YR HWL =1453.48
7 0.26 AC FMGE = 1458.96 RMGE = 1456.96
8 0.26 AC FMGE = 1457.82 RMGE = 1456.21
9 0.26 AC FMGE = 1456.92 RMGE = 1453.26
11 0.24 AC FMGE = 1457.25 RMGE = 1452.18
12 0.24 AC FMGE = 1458.49 RMGE = 1455.02
13 0.24 AC FMGE = 1458.80 RMGE = 1456.55
14 0.24 AC FMGE = 1458.80 RMGE = 1456.55
15 0.24 AC FMGE = 1458.80 RMGE = 1456.53
16 0.59 AC FMGE = 1459.12 RMGE = 1455.60
1456.90 OVERFLOW ELEVATION
48.0 TONS OF 2.5' DEEP CLASS B RIPRAP WITH TYPE B DRAINAGE FABRIC
WEIR WALL (SEE DETAIL)
BLOCK 10

infrastructure design group, inc.

REGISTERED PROFESSIONAL ENGINEER
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MATHEW D. MARTIN
SOUTH DAKOTA
5/04/2026

SHEET NO.
E.08

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