

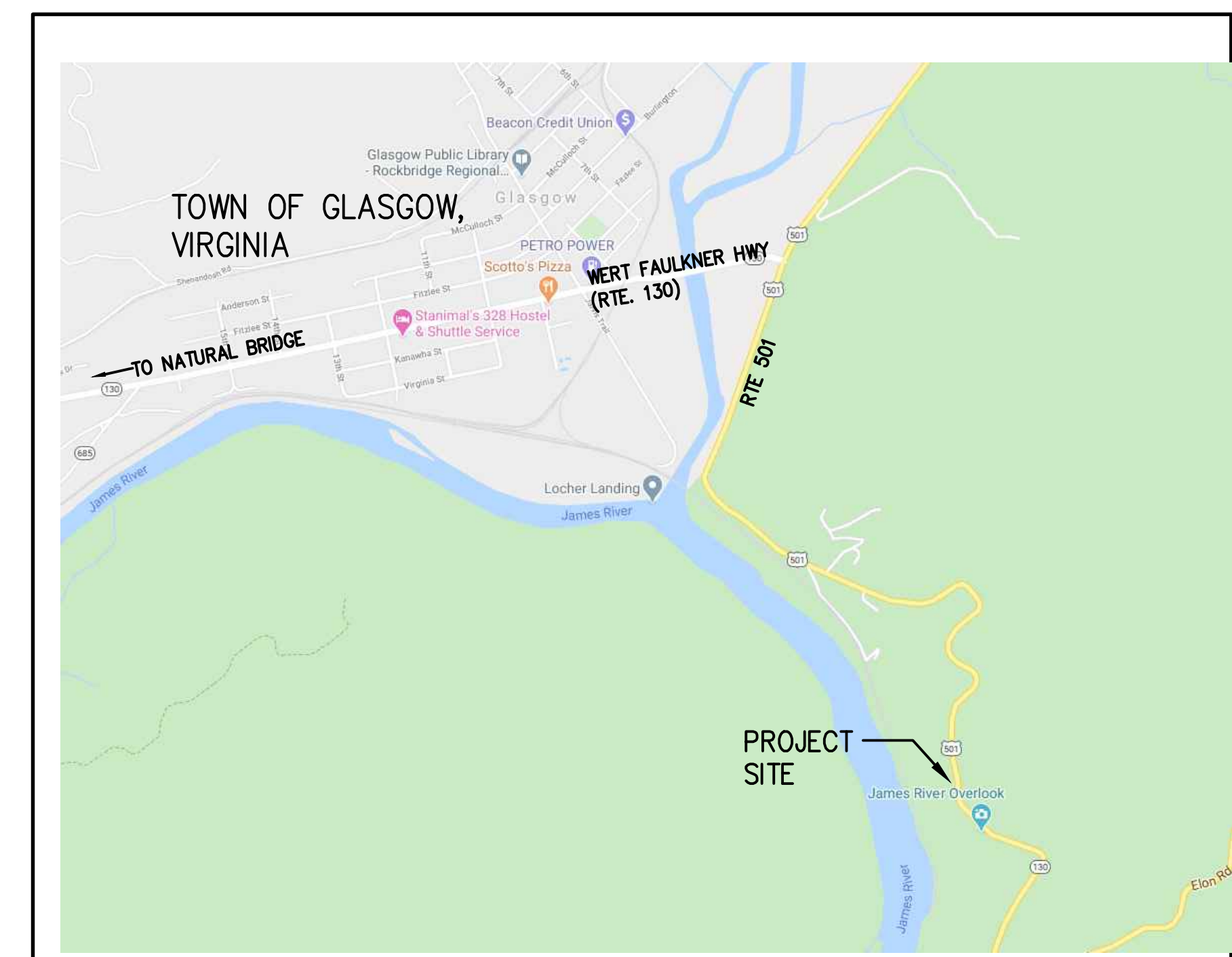
[illegible]

Issue Date: JULY 10, 2020	Drawn By: DBL	Checked By: MSA
	Designed By: MSA	Date: 7/10/2020

Mattern & Craig
ENGINEERS/SURVEYORS

701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24016
(540) 345-9342
FAX (540) 345-7691

- AMHERST COUNTY, VIRGINIA
- TITLE SHEET
- BALCONY FALLS RIVER ACCESS ENTRANCE AND PARKING AREA



Vertical Scale:
N/A

Horizontal Scale:
N/A

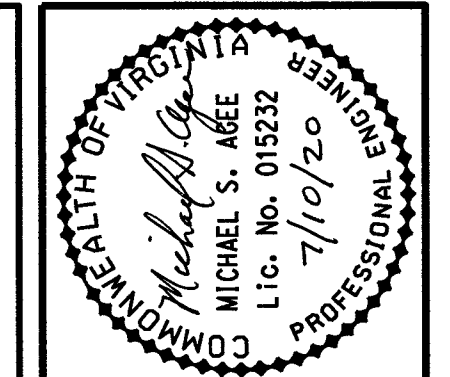
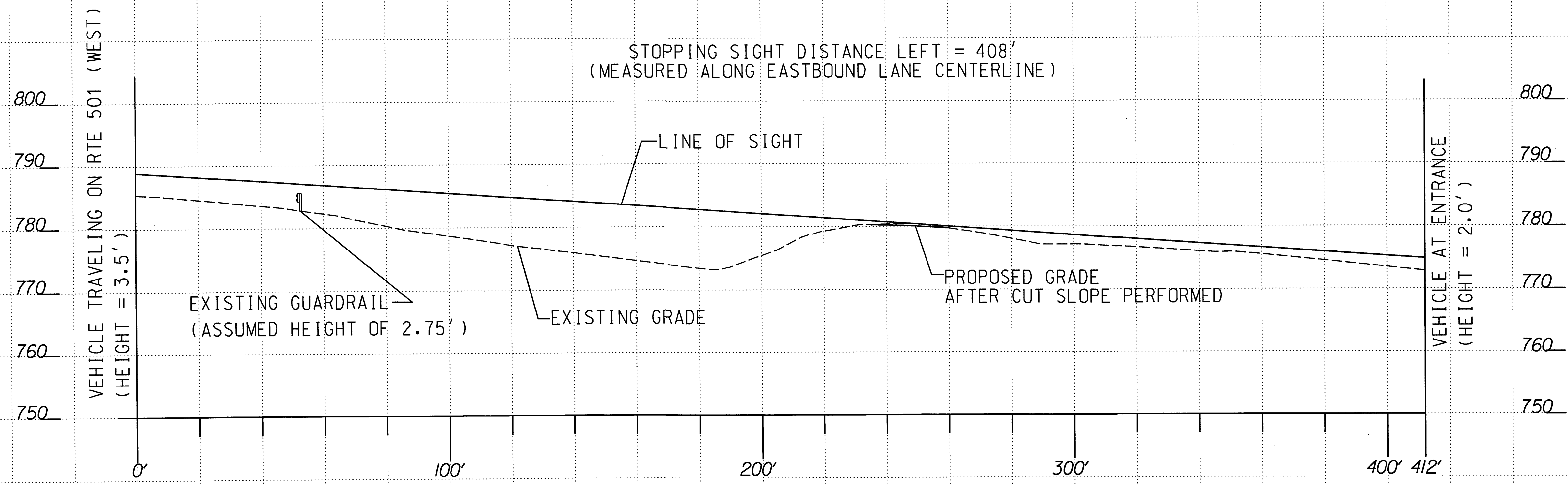
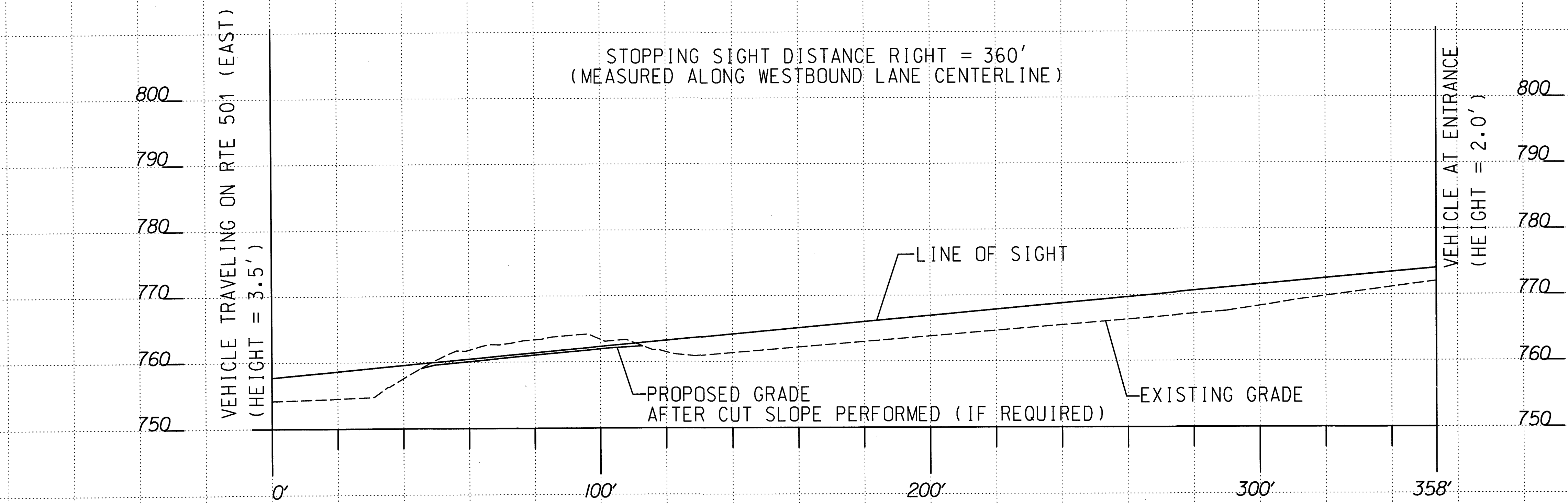
Commission Number:
3868

Sheet No.:

1

SET NO. _____





Revisions	Date
1 Add SSD Profile and Line Of Sight	5/6/20

Issue Date: 5/6/2020
 Drawn By: DBL
 Designed By: DBL
 Checked By: MSA
 Date: 5/6/2020

Mattern & Craig
 ENGINEERS • SURVEYORS
 701 FIRST STREET, S.W.
 ROANOKE, VIRGINIA 24006
 (800) 345-5262
 FAX (800) 345-7631

BALCONY FALLS RIVER ACCESS ENTRANCE STUDY
 STOPPING SIGHT DISTANCE
 PROFILE VIEW
 AMHERST COUNTY, VIRGINIA

Vertical Scale:
 1" = 10'

Horizontal Scale:
 1" = 20'

Commission Number:
 3868A

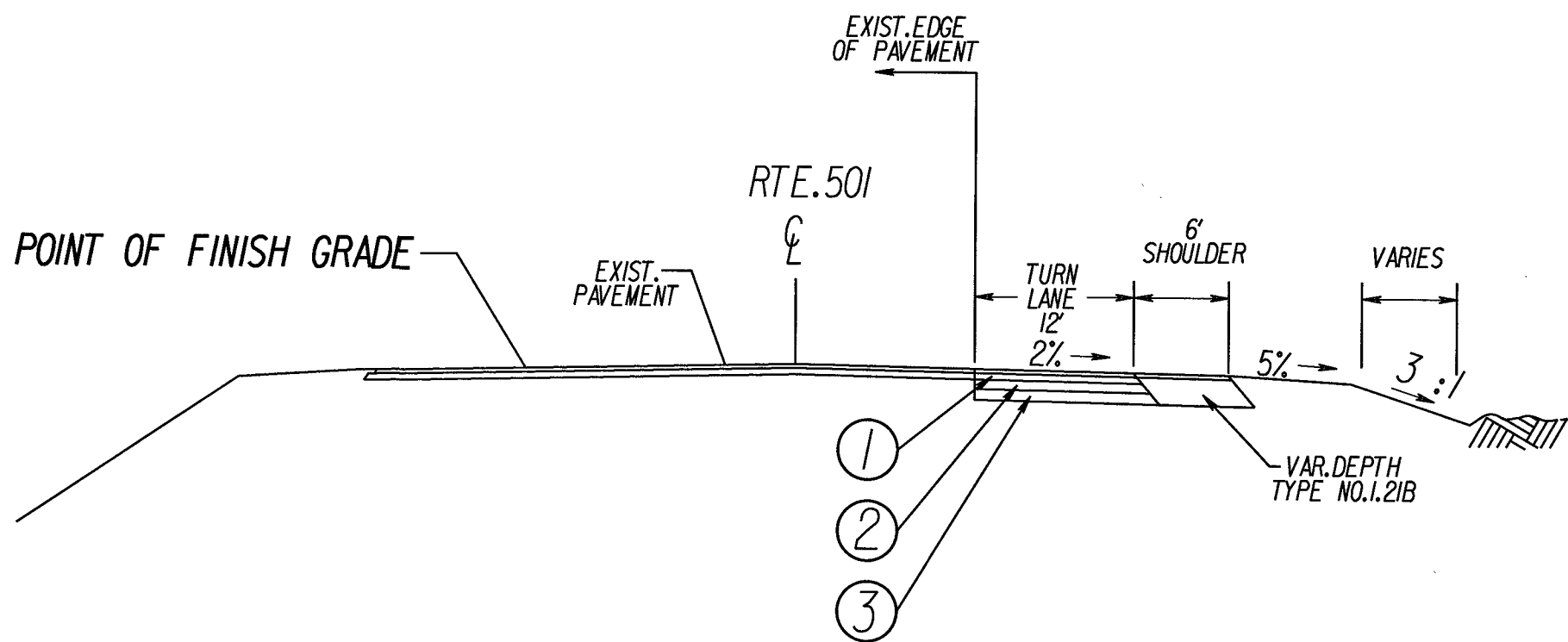
Sheet No.:
3

GENERAL NOTES

- 1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S CURRENT ROAD AND BRIDGE SPECIFICATIONS, ROAD AND BRIDGE STANDARDS, AND WORK AREA PROTECTION MANUAL.
- 2. ELECTRONIC STAKEOUT INFORMATION IS NOT AVAILABLE FOR THIS PROJECT. CONTRACTOR SHALL USE PLANS AND CROSS SECTIONS PROVIDED FOR ALL STAKEOUT REQUIRED FOR THIS PROJECT.

TYPICAL SECTIONS

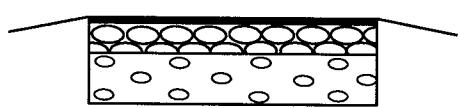
TURN LANE
TYPICAL SECTION RTE.501
NOT TO SCALE



- ① SURFACE 2" TYPE SM-19.0A ASPHALT CONCRETE
- ② INTERMEDIATE 4" TYPE BM-25.0A ASPHALT CONCRETE
- ③ SUBBASE 6" AGGREGATE BASE MATERIAL TYPE I NO.2IB

PARKING LOT ENTRANCE
NOT TO SCALE

ENTRANCE & PARKING LOT
Asphalt



Asphalt Conc. Type
2" Type SM-12.5A @ 165 Lbs. per S.Y.
6" Aggr. Base Mat'l. Ty. I No. 2IB

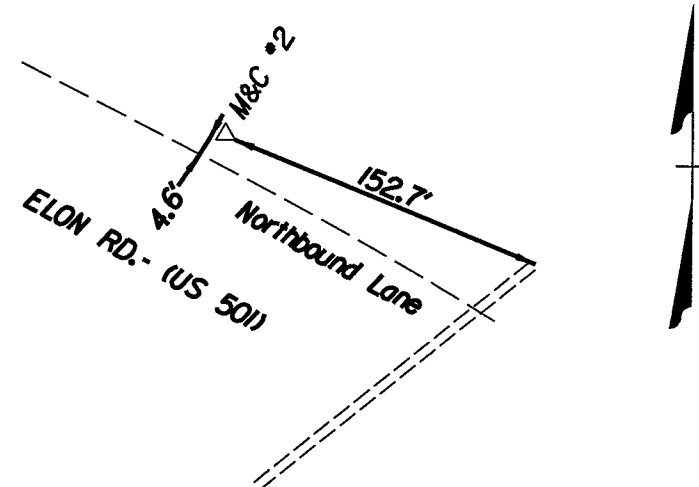
SURVEY DATA

CONTROL STATION ID. M&C *2
ESTABLISHED BY T. W. CALDWELL
VERTICAL DATUM BASED ON NAVD 88 ELEV. 785.434
HORIZONTAL DATUM BASED ON NAD 83(2011)EPOCH: 2010.00001

X (EAST) 11,220,539.9312
Y (NORTH) 3,746,996.4311
AZIMUTH TO STATION M&C *1 IS 296° 31' 16"
AZIMUTH TO STATION M&C *3 IS 130° 29' 25"

DETAILED DESCRIPTION

The station is an iron pin with cap set at ground level.
For a detailed description see sketch below.

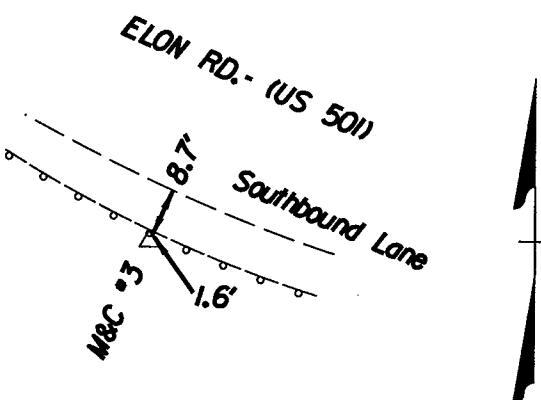


CONTROL STATION ID. M&C *3
ESTABLISHED BY T. W. CALDWELL
VERTICAL DATUM BASED ON NAVD 88 ELEV. 759.263
HORIZONTAL DATUM BASED ON NAD 83(2011)EPOCH: 2010.00001

X (EAST) 11,221,052.9769
Y (NORTH) 3,746,558.4012
AZIMUTH TO STATION M&C *2 IS 310° 29' 25"
AZIMUTH TO STATION M&C *4 IS 84° 04' 52"

DETAILED DESCRIPTION

The station is an iron pin with cap set at ground level.
For a detailed description see sketch below.



SURVEY CONTROL

M&C *1: N: 3747206.8130 E: 1122018.3600 ELEV: 793.041
BEARING S 63° 28' 44" E HDist: 471.151
M&C *2: N: 3746996.4311 E: 11220539.9312 ELEV: 785.434
BEARING: S 49° 30' 35" E HDist: 674.601
M&C *3: N: 3746558.4012 E: 11221052.9769 ELEV: 759.263
BEARING: N 84° 04' 52" E HDist: 507.826
M&C *4: N: 3746610.7683 E: 11221558.0954 ELEV: 738.972

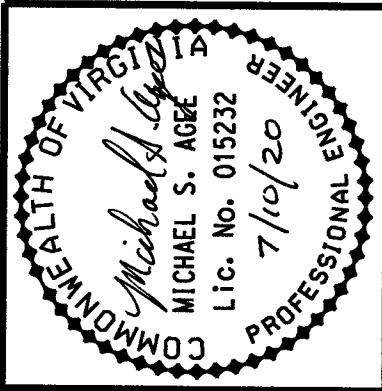
SURVEY BENCHMARK(S) NAVD 88

TOP OF CONCRETE RIGHT-OF-WAY MONUMENT.
ELEV. = 768.96'

SURVEY NOTES:

- 1. THIS LOCATION SURVEY OF BALCONY FALLS PARKING LOT WAS COMPLETED UNDER THE DIRECT RESPONSIBLE CHARGE OF TIMOTHY W. CALDWELL'S FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED DURING AUGUST 8, 2019 & JUNE 3, 2020; AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- 2. PROPERTY INFORMATION IS BASED ON VDOT RIGHT-OF-WAY PLANS OF RECORD AND PHYSICAL EVIDENCE FOUND.
- 3. HORIZONTAL (NAD 83(2011)) AND VERTICAL (NAVD 88) CONTROL WAS ESTABLISHED BY OPUS GPS SURVEY ON JUNE 19, 2018 BY TIMOTHY W. CALDWELL, L.S.

Project : 3868 Balcony Falls River Access
Horizontal Datum Based On NAD83
Vertical Datum Based On NAVD88
Survey By : T. W. Caldwell
Operator : T. W. Caldwell
Date : 07 - 23 - 18 Updated 8/29/19
Scale : 1" = 25'



Revisions	Date
1 Add SSD Profile and Line of Sight	5/6/20
2 Add Cross Sections, Parking Lot Dimensions, Survey Data, Typical Sections, Lot Profile	7/10/20

Issue Date:	7/10/2020
Drawn By:	DBL
Designed By:	DBL
Checked By:	MSA
Date:	7/10/2020

Mattern & Craig
ENGINEERS - SURVEYORS
701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24005
(540) 345-9342
FAX (540) 345-7691

BALCONY FALLS RIVER ACCESS ENTRANCE STUDY
TYPICAL SECTIONS
& SURVEY DATA
AMHERST COUNTY, VIRGINIA

Vertical Scale:
N/A

Horizontal Scale:
N/A

Commission Number:
3868A

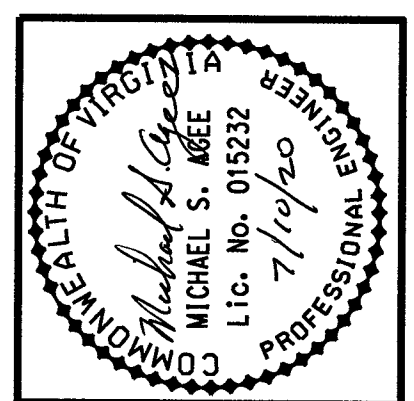
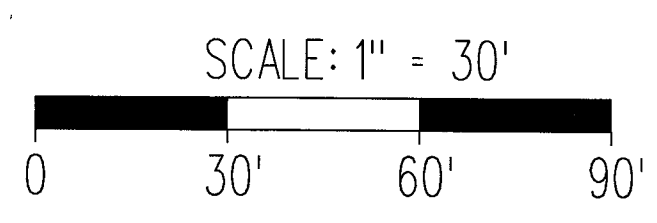
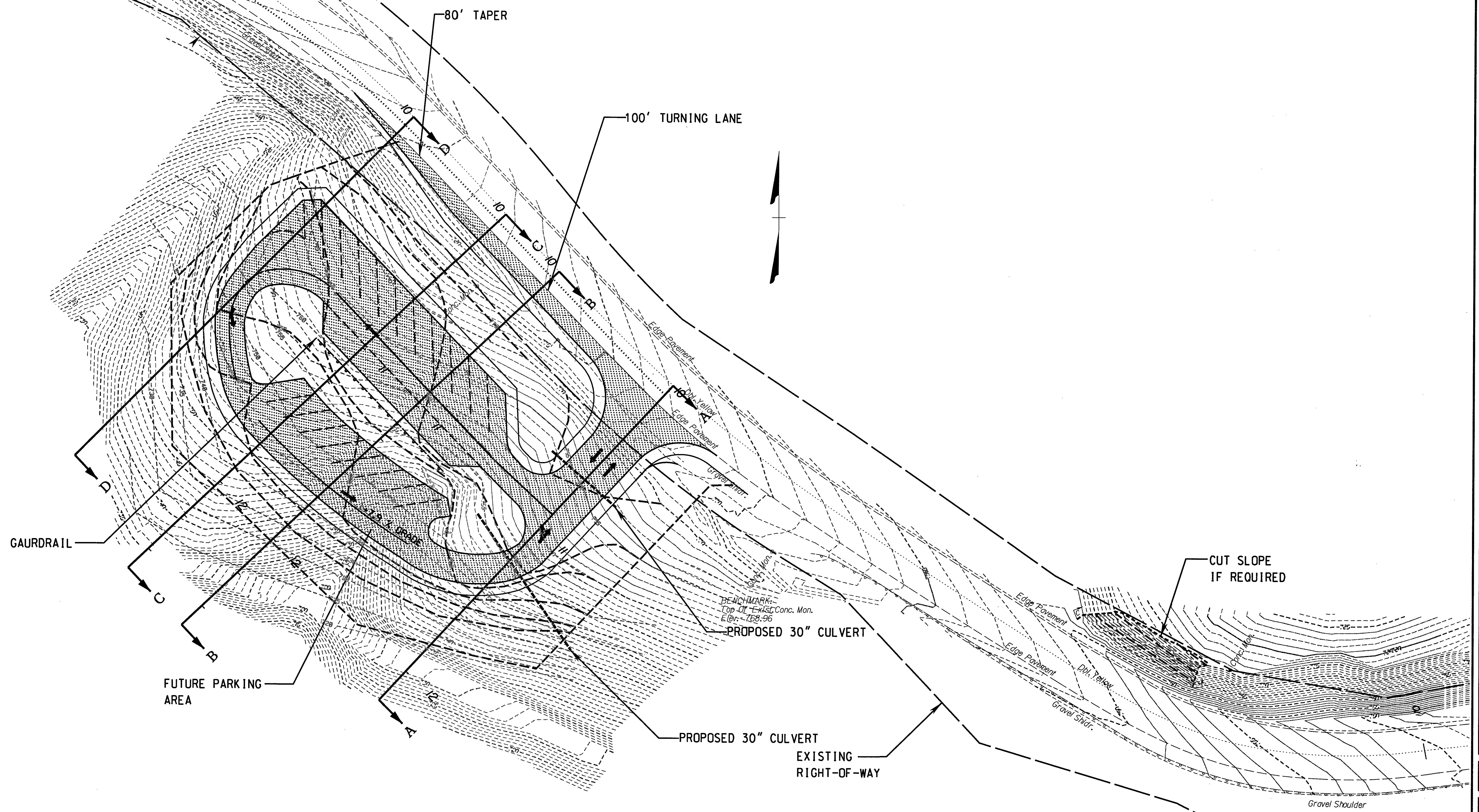
Sheet No.:
4

U.S. FOREST SERVICE

U.S. FOREST SERVICE

NOTES:

REPLACE EXISTING GAURDRAIL AS REQUIRED
PROVIDE PROPER TRAIL END TERMINAL



Revisions	Date
1 Add SSD Profile and Line of Sight	5/6/20
2 Add Cross Sections, Parking Lot Dimensions, Survey Data, Typical Sections, Lot Profile	7/10/20

Issue Date:	7/10/2020
Drawn By:	DBL
Designed By:	DBL
Checked By:	MSA
Date:	7/10/2020

Mattern & Craig
ENGINEERS • SURVEYORS
701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24016
(540) 345-5342
FAX (540) 345-7691

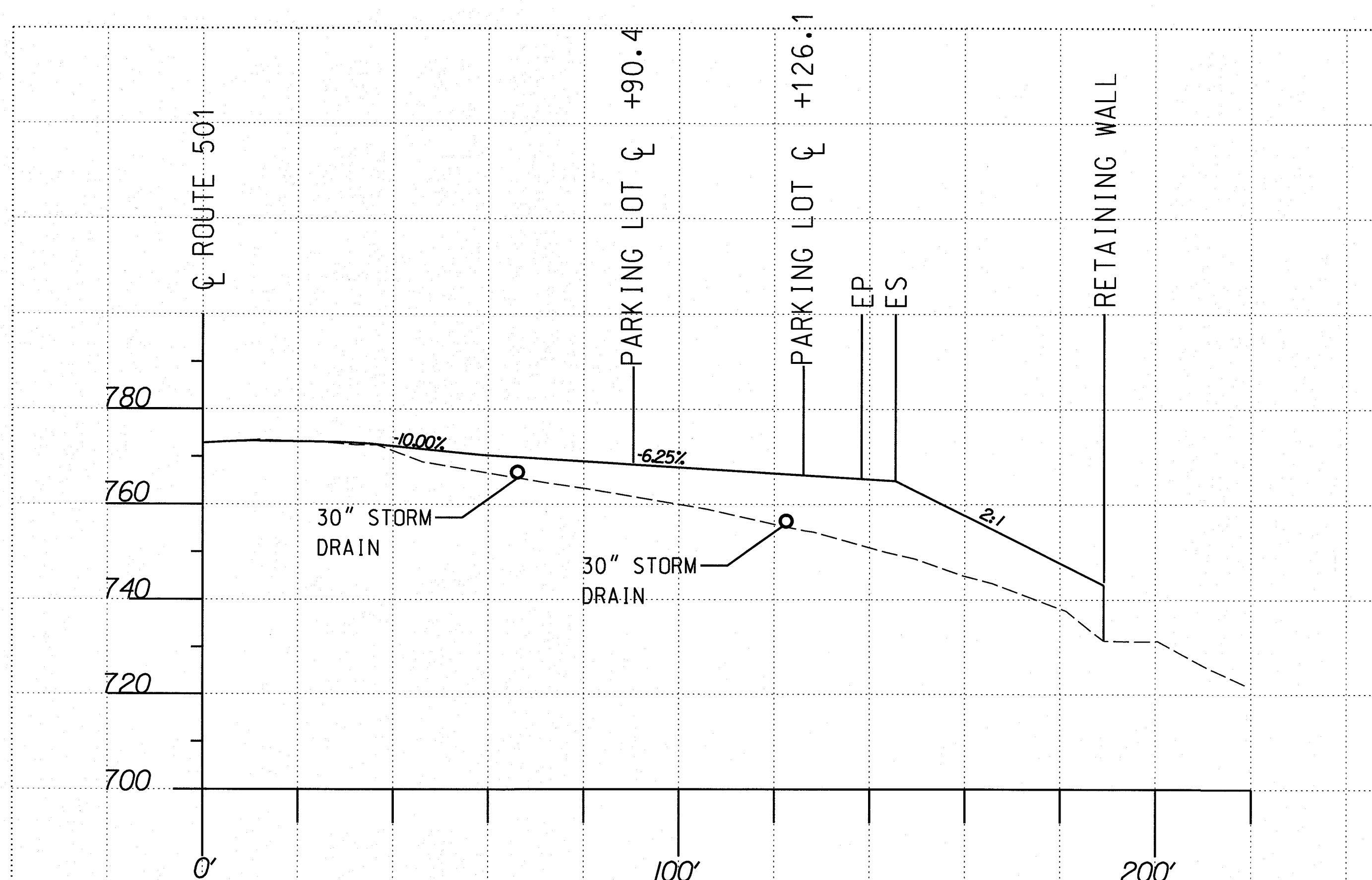
BALCONY FALLS RIVER ACCESS ENTRANCE STUDY
PARKING LOT CROSS SECTIONS
PLAN VIEW
AMHERST COUNTY, VIRGINIA

Vertical Scale:
N/A

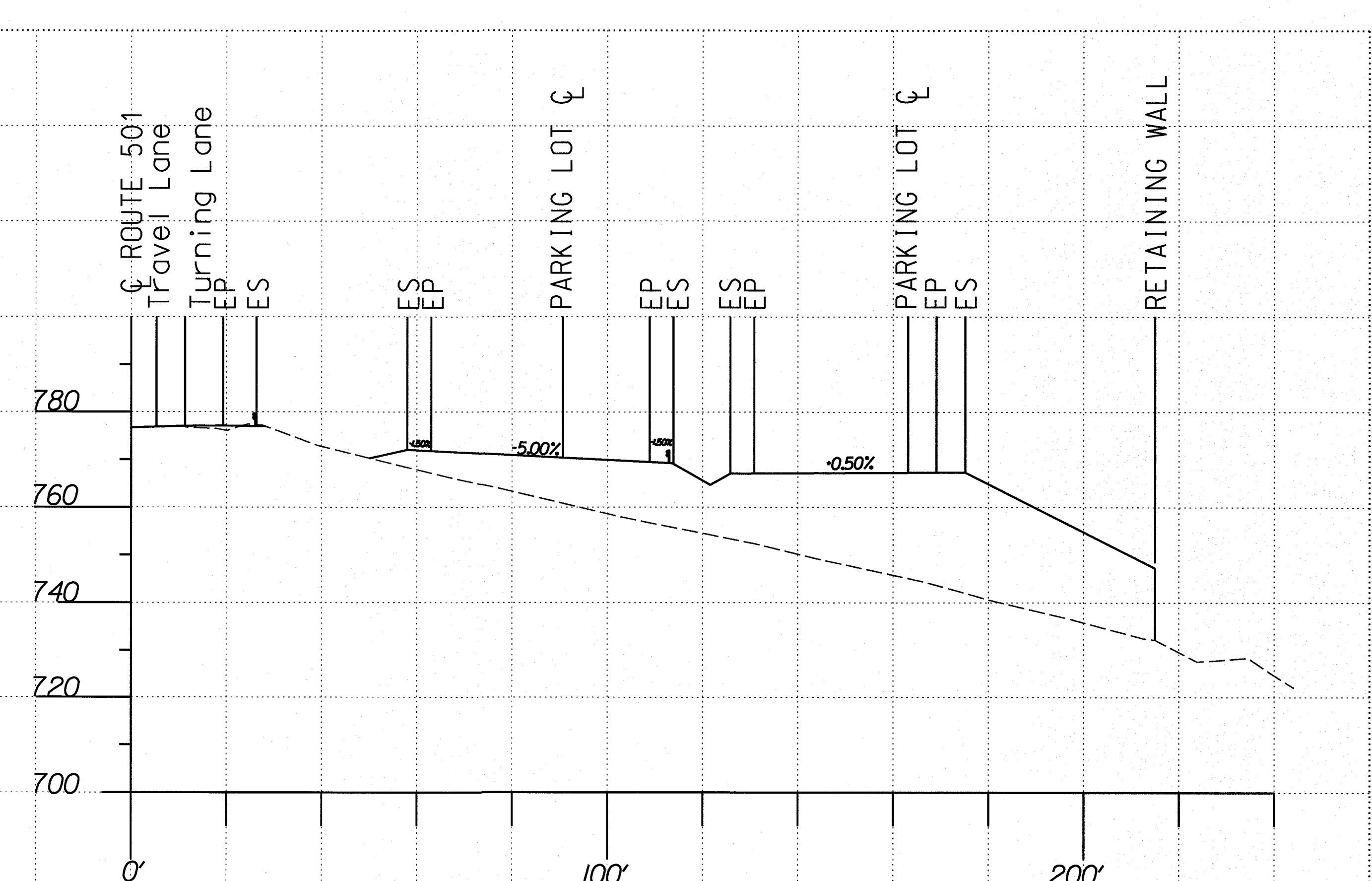
Horizontal Scale:
1" = 30'

Commission Number:
3868A

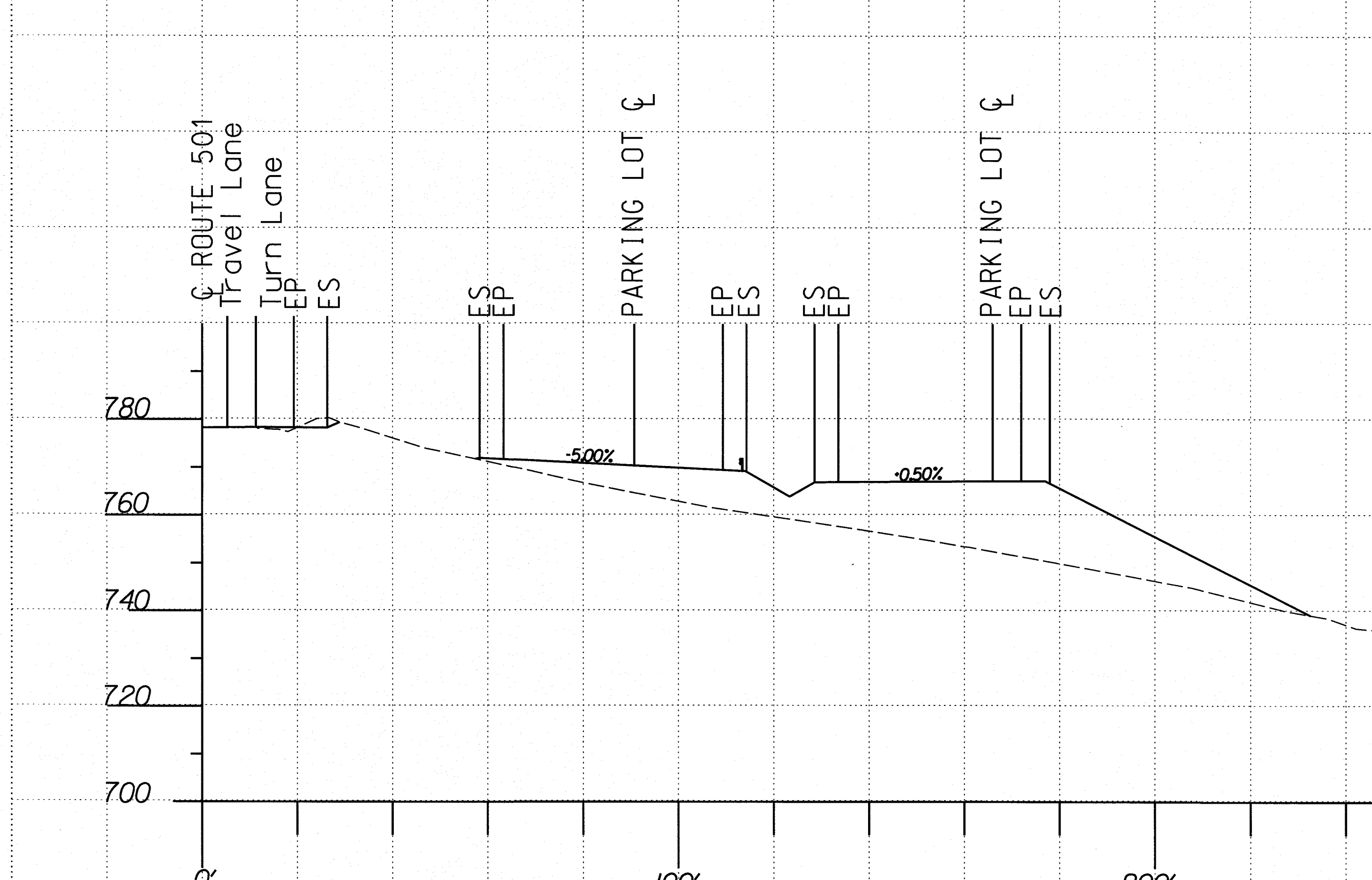
Sheet No.:
5



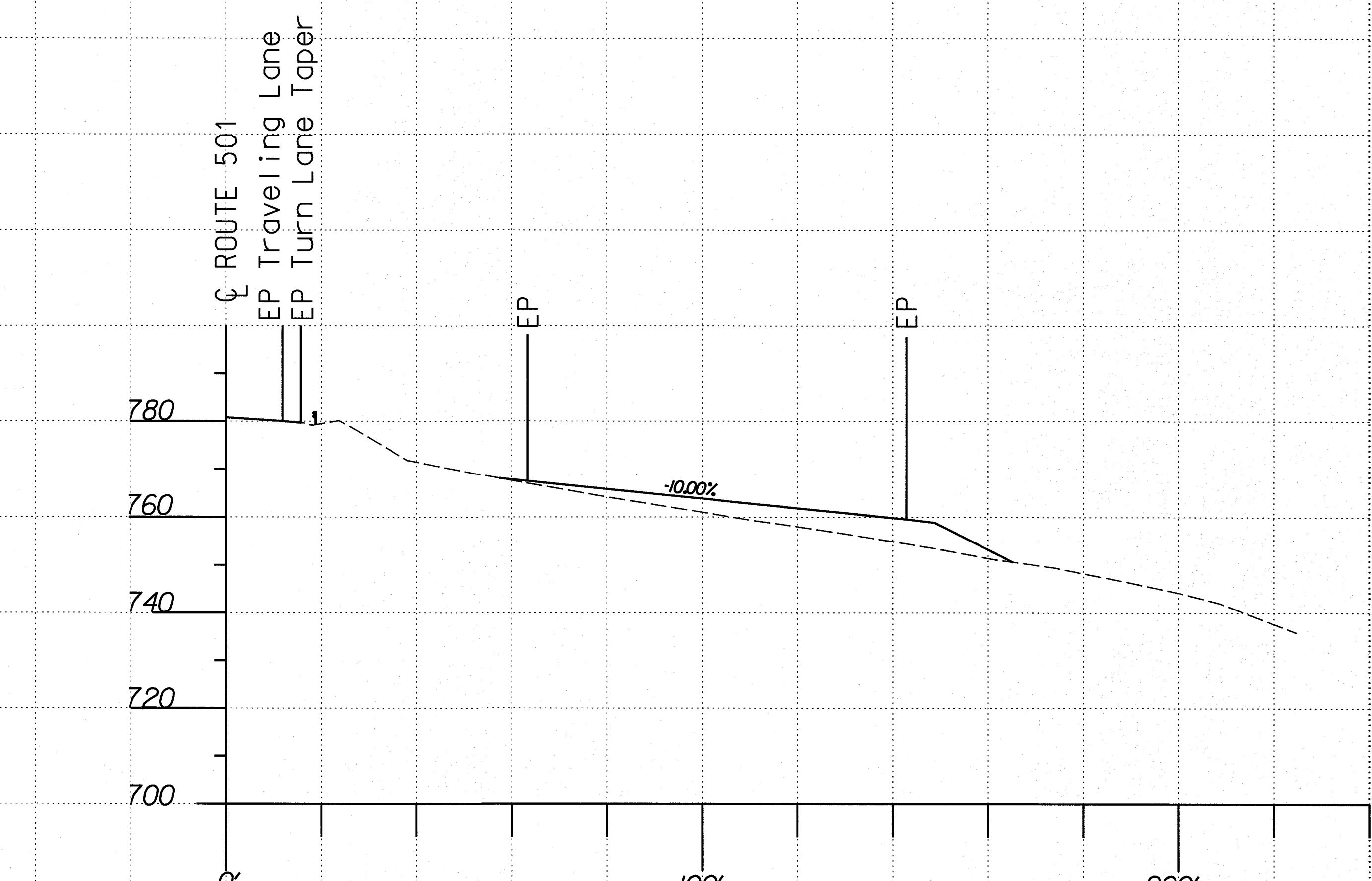
CROSS SECTION A



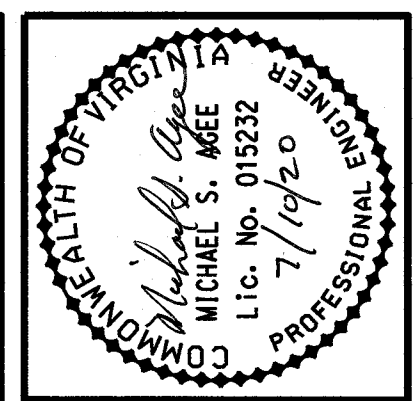
CROSS SECTION B



CROSS SECTION C



CROSS SECTION D



Revisions	Date
1 Add SSD Profile and Line of Sight	5/6/20
2 Add Cross Sections, Parking Lot Dimensions, Survey Data, Typical Sections, Lot Profile	7/10/20

Issue Date:	7/10/2020
Drawn By:	DBL
Designed By:	DBL
Checked By:	MSA
Date:	7/10/2020

Mattern & Craig
ENGINEERS • SURVEYORS
701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24006
(540) 345-9342
FAX (540) 345-7691

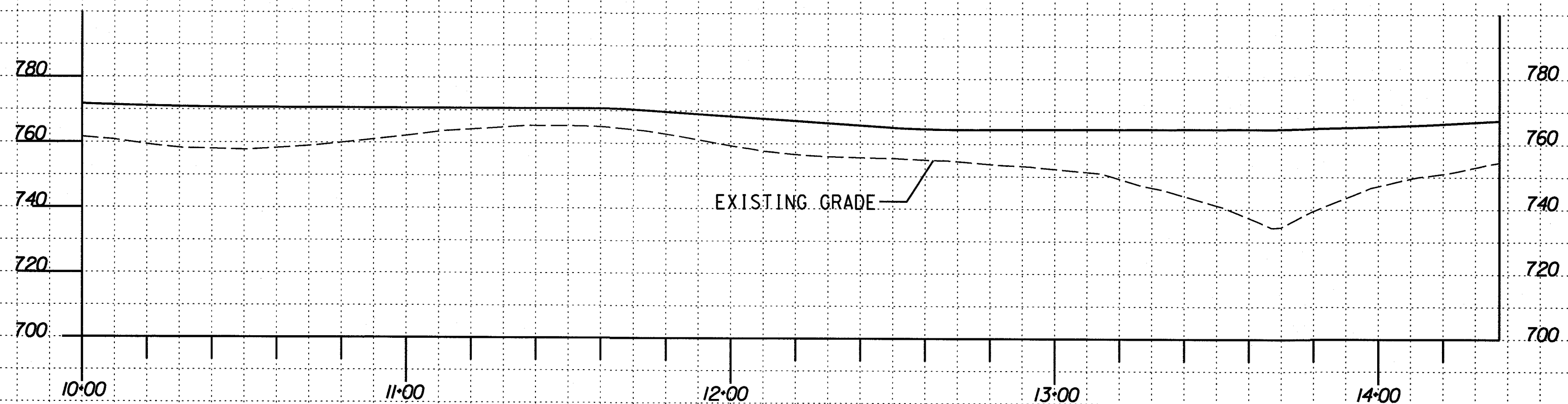
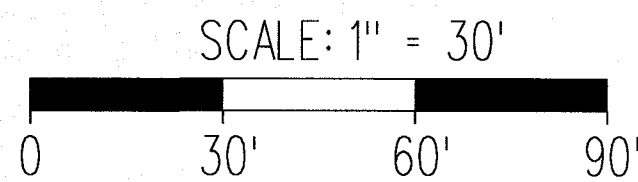
BALCONY FALLS RIVER ACCESS ENTRANCE STUDY
PARKING LOT CROSS-SECTIONS
AMHERST COUNTY, VIRGINIA

Vertical Scale:
1" = 20'

Horizontal Scale:
1" = 20'

Commission Number:
3868A

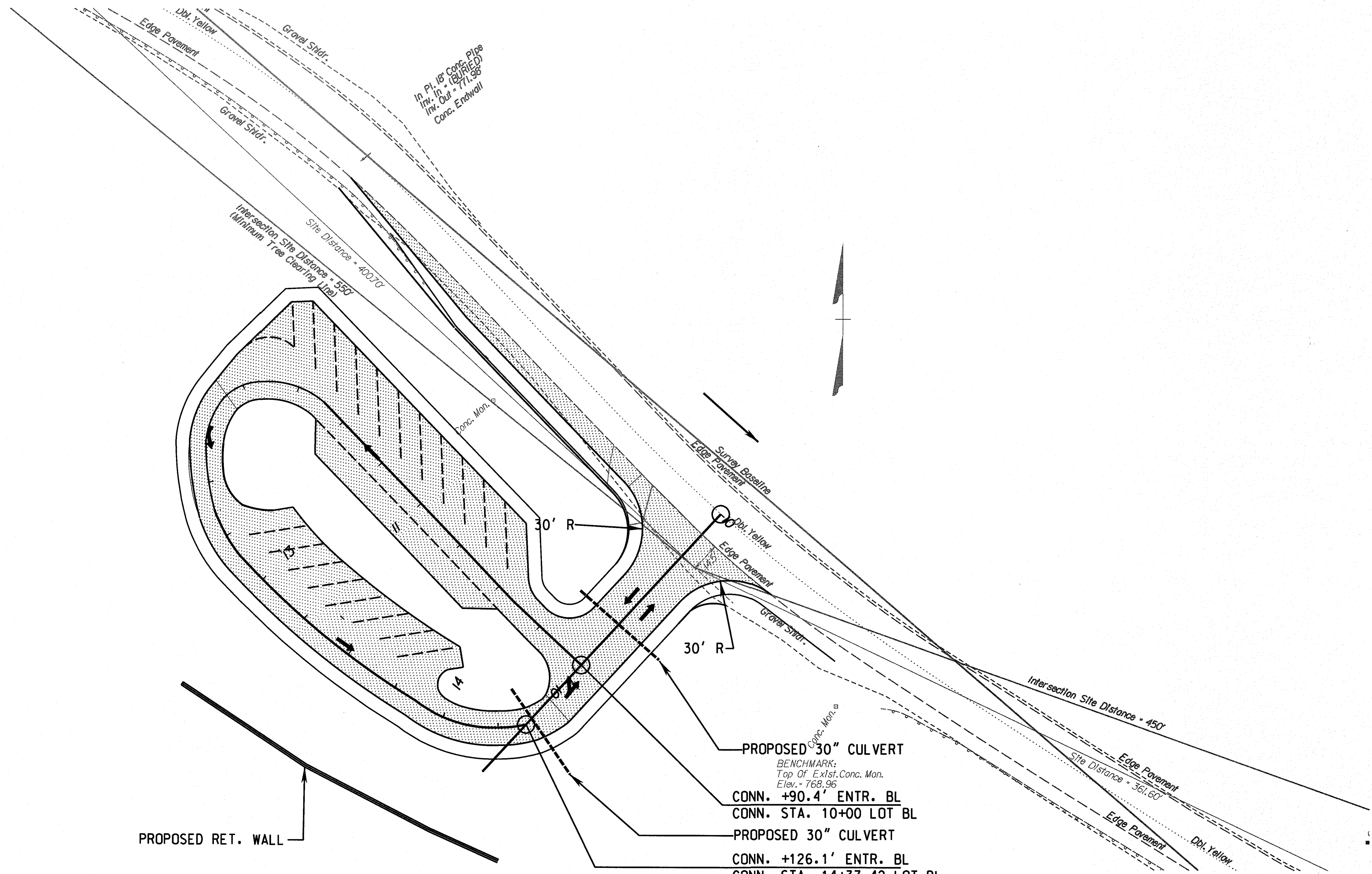
Sheet No.:
6



PARKING LOT PROFILE

PROPOSED RET. WALL

PROPOSED 30" CULVERT
BENCHMARK:
Top Of Exst. Conc. Man.
Elev. = 768.96
CONN. +90.4' ENTR. BL
CONN. STA. 10+00 LOT BL
PROPOSED 30" CULVERT
CONN. +126.1' ENTR. BL
CONN. STA. 14+37.42 LOT BL



Mattern & Craig
ENGINEERS • SURVEYORS
701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24006
(540) 345-3342
FAX (540) 345-1651

BALCONY FALLS RIVER ACCESS ENTRANCE STUDY
PROPOSED PARKING LOT
PROFILE
AMHERST COUNTY, VIRGINIA

Vertical Scale:
1" = 30'
Horizontal Scale:
1" = 30'
Commission Number:
3868A
Sheet No.:

COMMONWEALTH OF VIRGINIA
MICHAEL S. AGE
Lic. No. 015232
7/10/20
PROFESSIONAL ENGINEER

Revisions	Issue Date:	7/10/2020	Date
1	Add SSD Profile and Line Of Sight	DBL	5/6/20
2	Add Cross Sections, Parking Lot Dimensions, Survey Data, Typical Sections, Lot Profile	VTH	7/10/20
	Designed By:	MSA	
	Checked By:		
	Date:	7/10/2020	