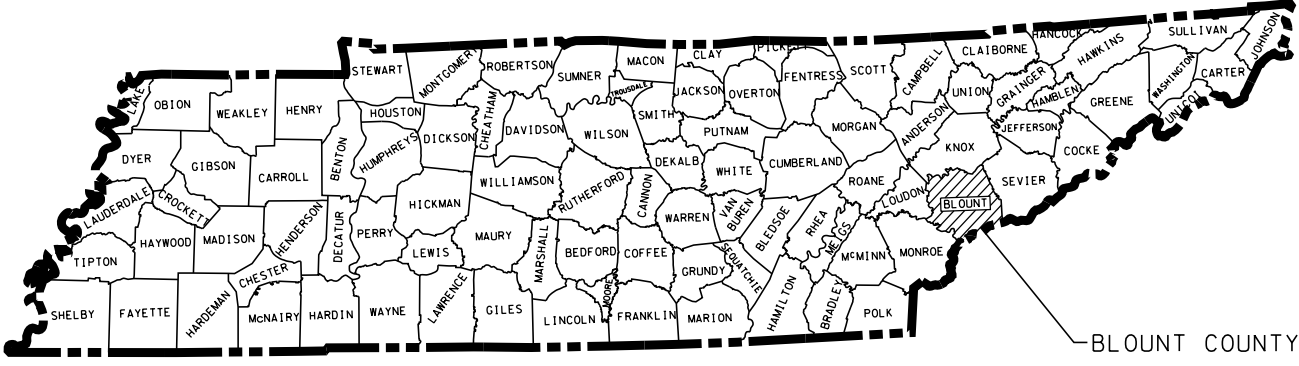


# Roadway Improvements For City of Alcoa

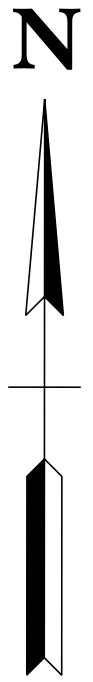
## SPRINGBROOK FARM MASTER PLAN FOR ROADWAY, DRAINAGE, & UTILITY INFRASTRUCTURE



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 2095 Lakeside Centre Way  
 Suite 120  
 Knoxville, TN 37922  
 865.521.6777

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### PLANNING



PROJECT NOTES:  
 1. SURVEY DATE MARCH 2012

APPROVED: \_\_\_\_\_ CITY MANAGER  
 DATE: \_\_\_\_\_

**CIVIL ENGINEER-**  
**Gresham Smith**  
 2095 LAKESIDE CENTRE WAY, SUITE 120  
 KNOXVILLE, TENNESSEE, 37922  
 (865)521-6777 TELEPHONE  
 CONTACT: SHAP STILES, P.E.

**SPECIAL NOTES**

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015.

DESIGNED BY: GRESHAM SMITH  
 DESIGNER: JACOB GRAVES, P.E. CHECKED BY: J. SHAP STILES, P.E.  
 P.E. NO. \_\_\_\_\_  
 PIN NO. \_\_\_\_\_

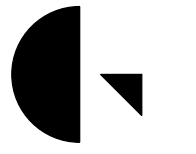
NOT TO SCALE

ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
 SPRINGBROOK FARM  
 BLOUNT COUNTY, TENNESSEE

REVISION		
No.	Date	Revision

TITLE SHEET

\$DATE\$  
 \$TIME\$  
 \$DGN\$



**Gresham  
Smith**

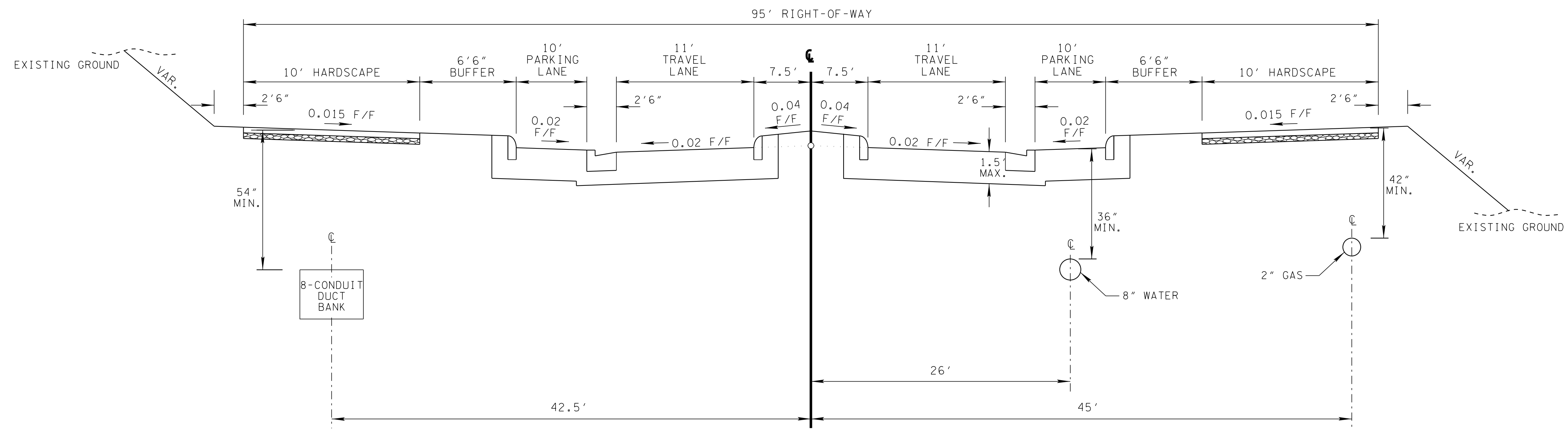
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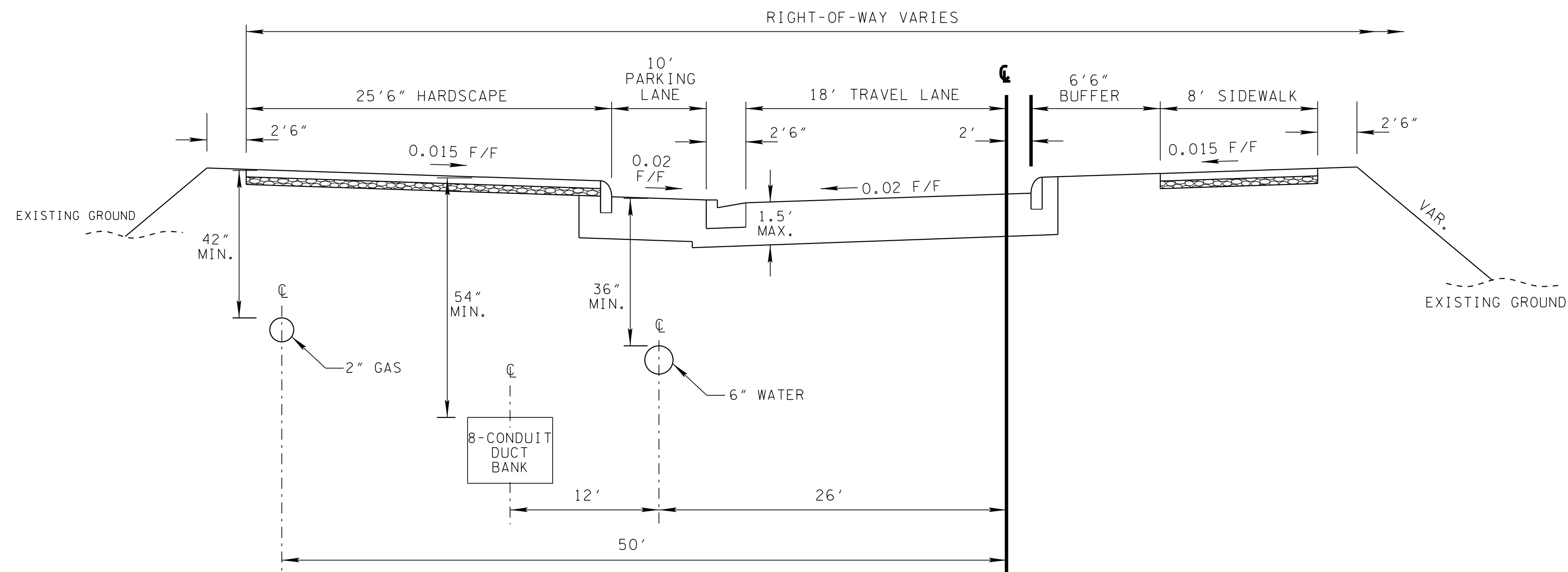
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SPRINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE

REVISION		
No.	Date	Revision

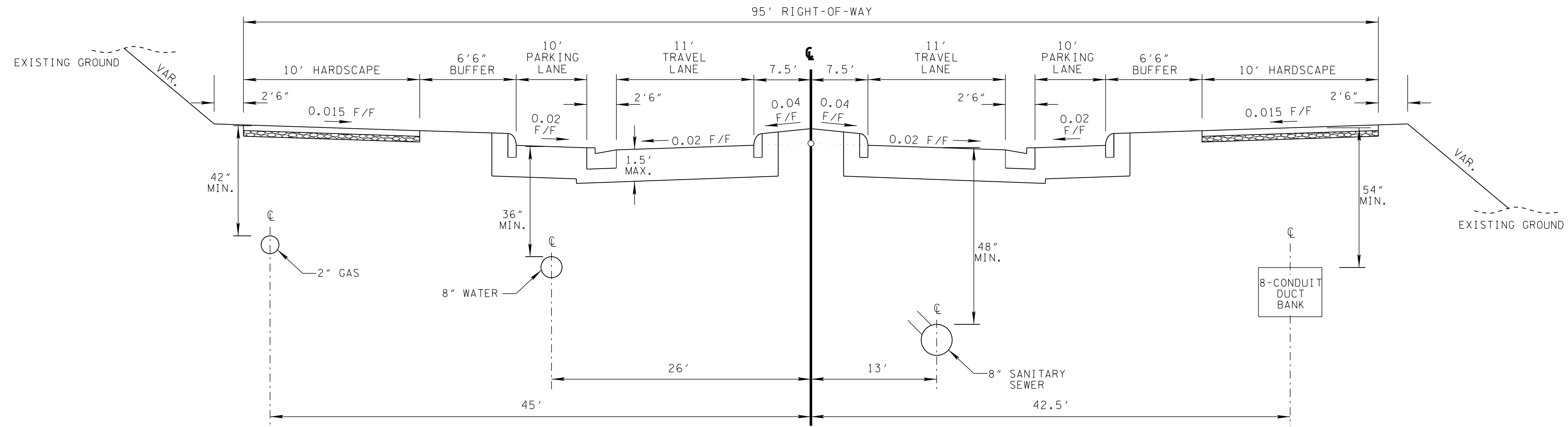
TYPICAL SECTIONS



**CENTENNIAL PARK BOULEVARD**  
(BASED ON STD. DWG. RD01-TS-6A)  
TESLA BOULEVARD TO CENTENNIAL PARK LOOP  
CENTENNIAL PARK LOOP TO FARADAY STREET

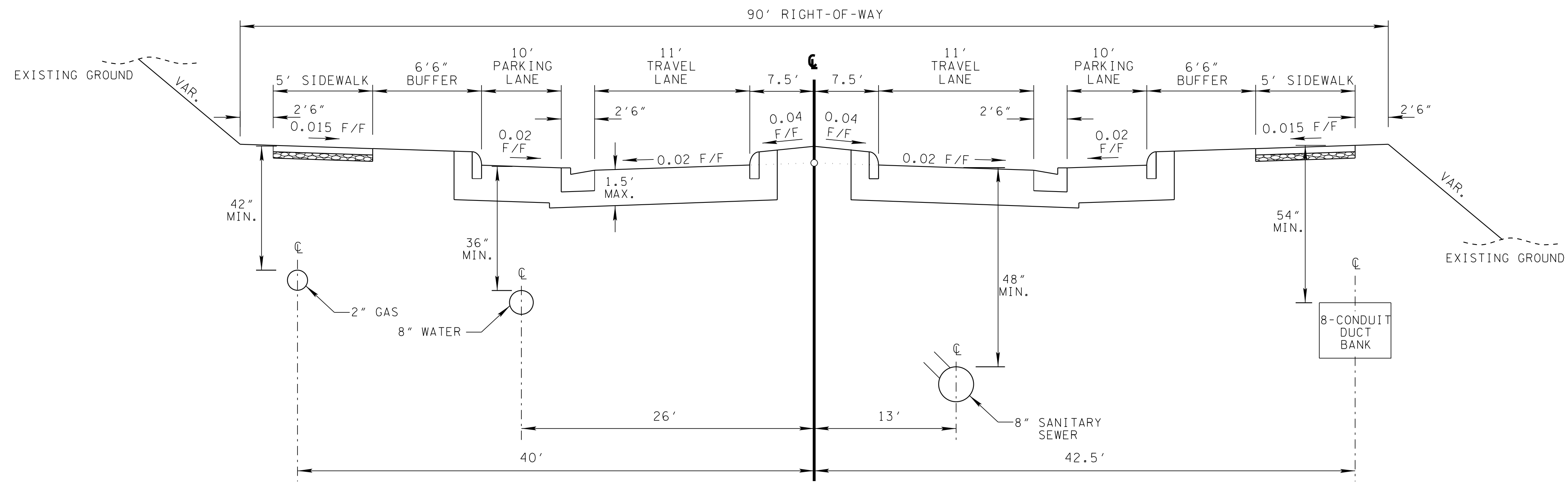


**CENTENNIAL PARK LOOP**  
(BASED ON STD. DWG. RD01-TS-6A)



**ROAD "B"**

(BASED ON STD. DWG. RD01-TS-6A)  
TESLA BOULEVARD TO CENTENNIAL PARK LOOP  
CENTENNIAL PARK LOOP TO ROAD "E"



**ROAD "B"**

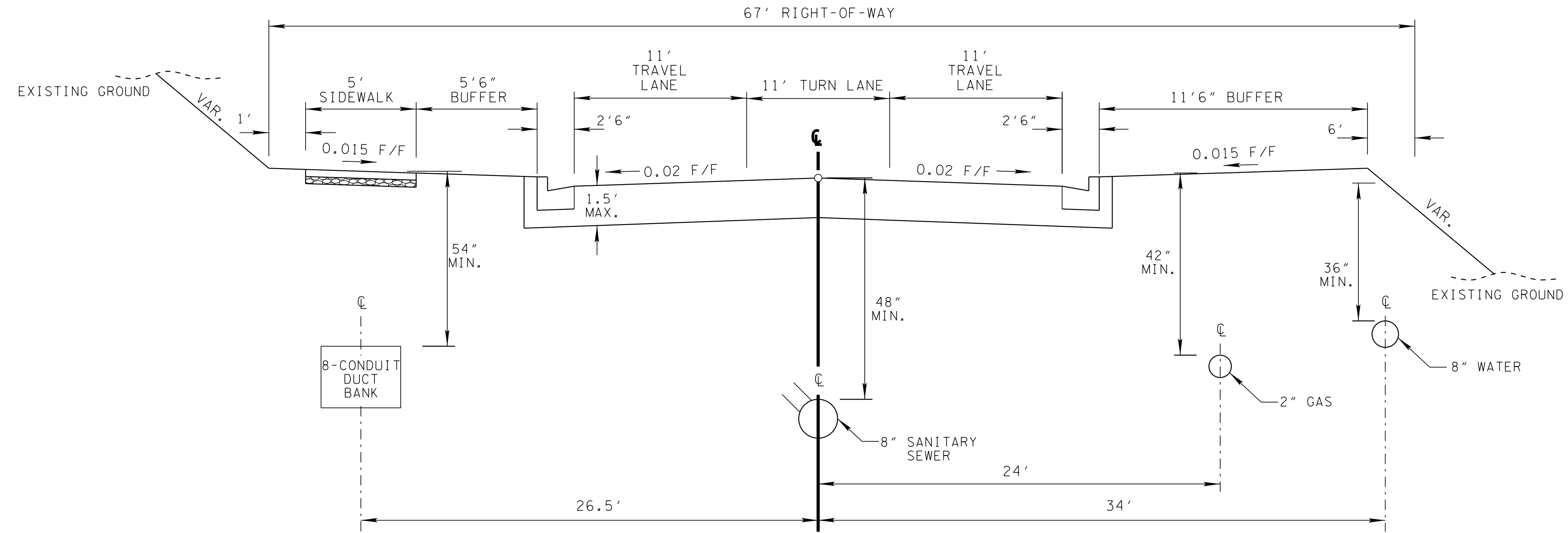
(BASED ON STD. DWG. RD01-TS-6A)  
ROAD "E" TO MILLS STREET

\$DATE\$  
\$TIME\$  
\$DGN\$

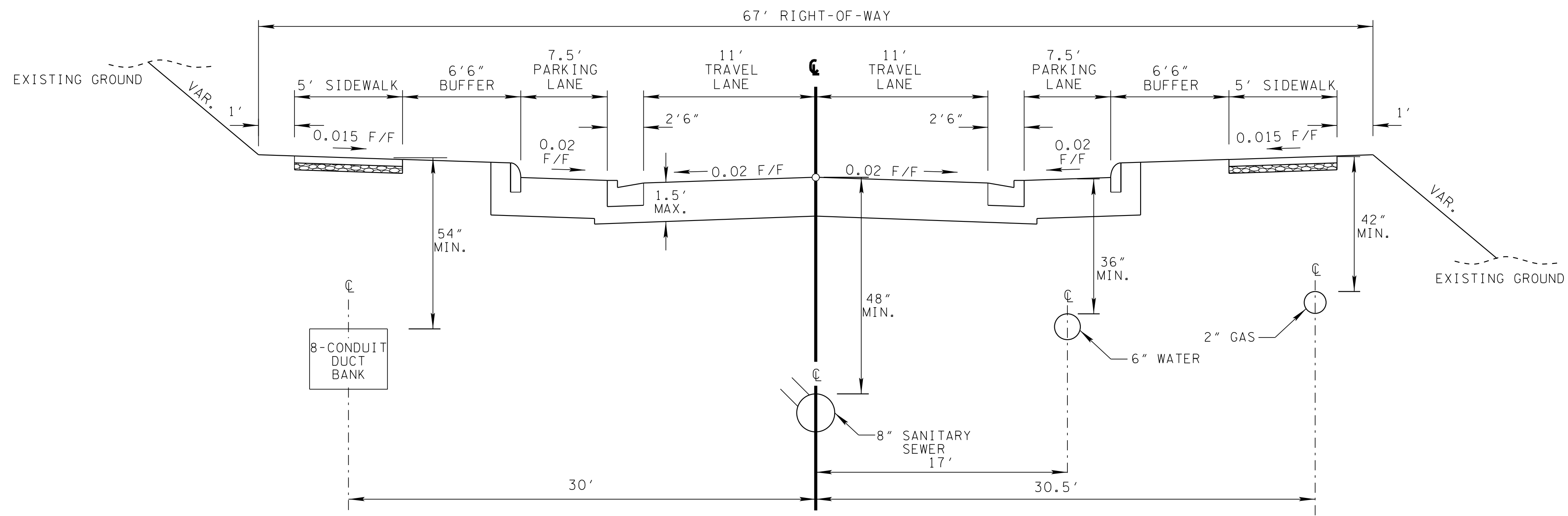
REVISION		
No.	Date	Revision

TYPICAL SECTIONS

REVISION		
No.	Date	Revision

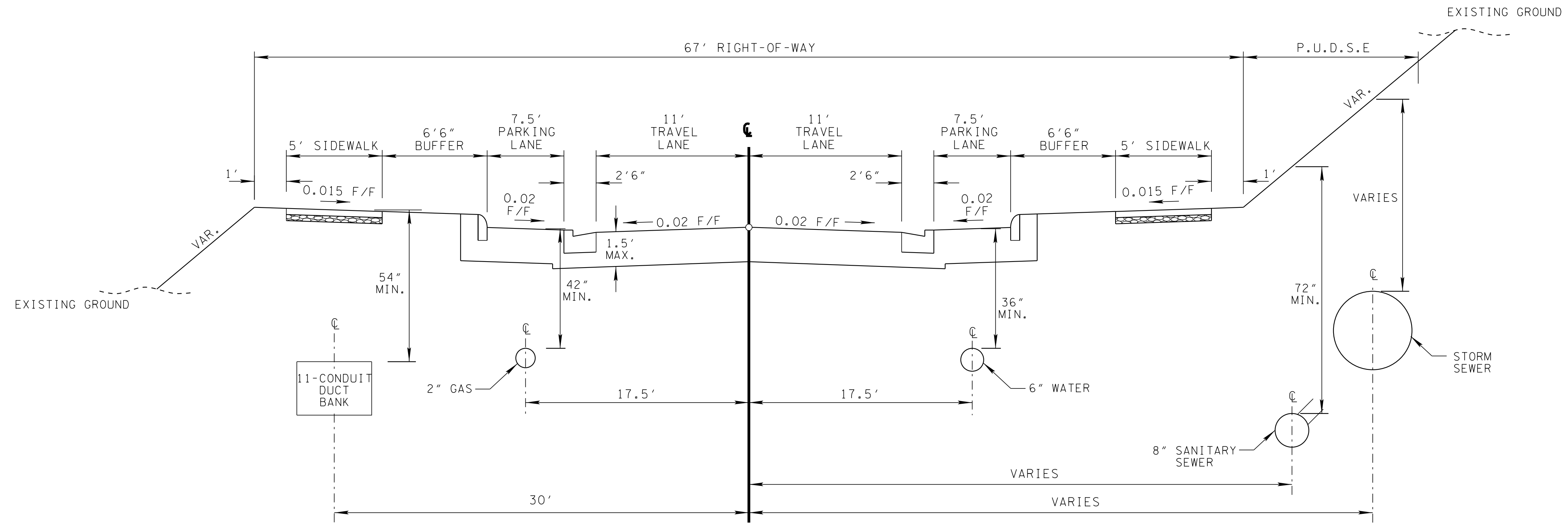


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TESLA BOULEVARD TO ROAD "B"

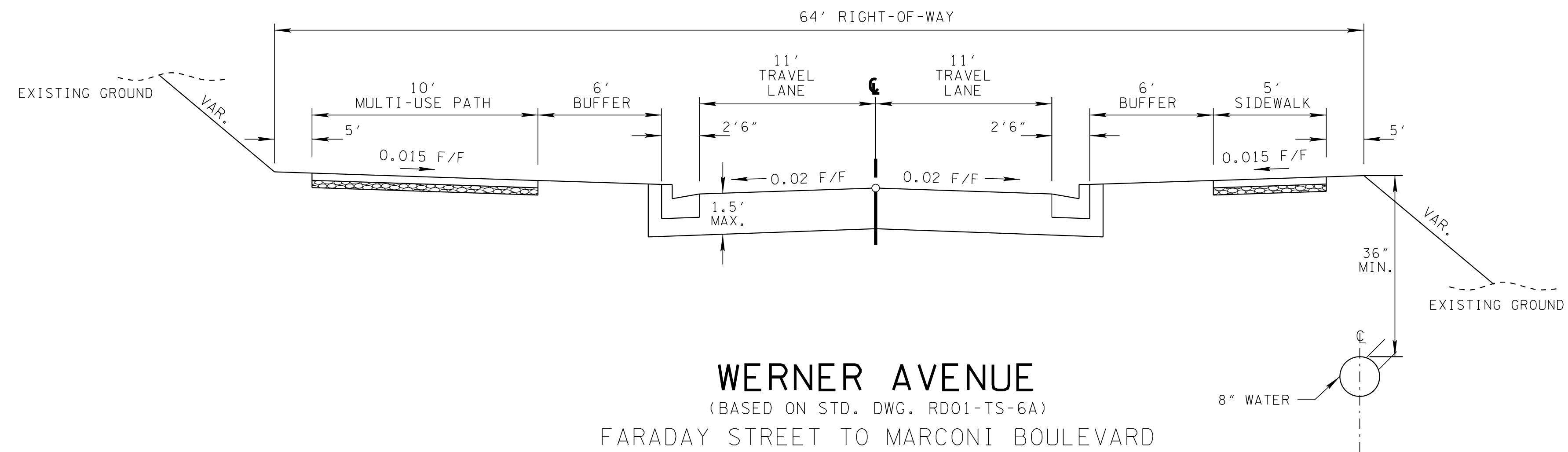


**WERNER AVENUE**  
(BASED ON STD. DWG. RD01-TS-6A)  
ROAD "B" TO FARADAY STREET

TYPICAL SECTIONS



**ROAD "E"**  
(BASED ON STD. DWG. RD01-TS-6A)  
MILLS STREET TO FARADAY STREET



**WERNER AVENUE**  
(BASED ON STD. DWG. RD01-TS-6A)  
FARADAY STREET TO MARCONI BOULEVARD

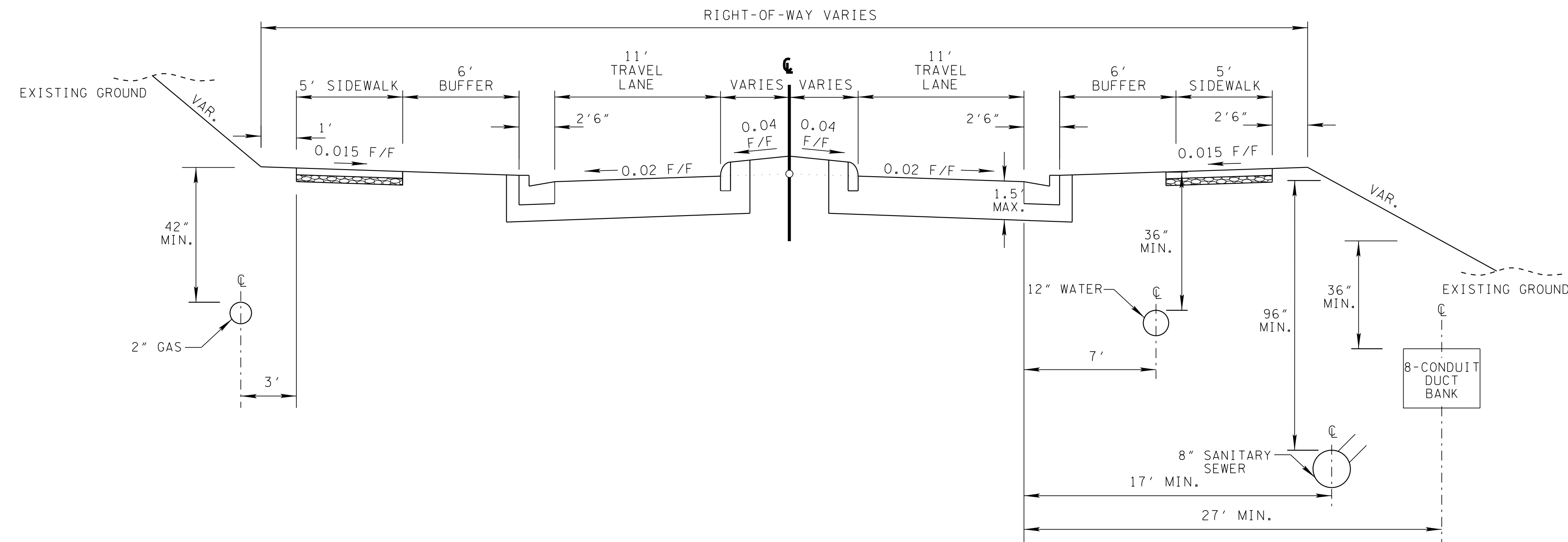
REVISION		
No.	Date	Revision



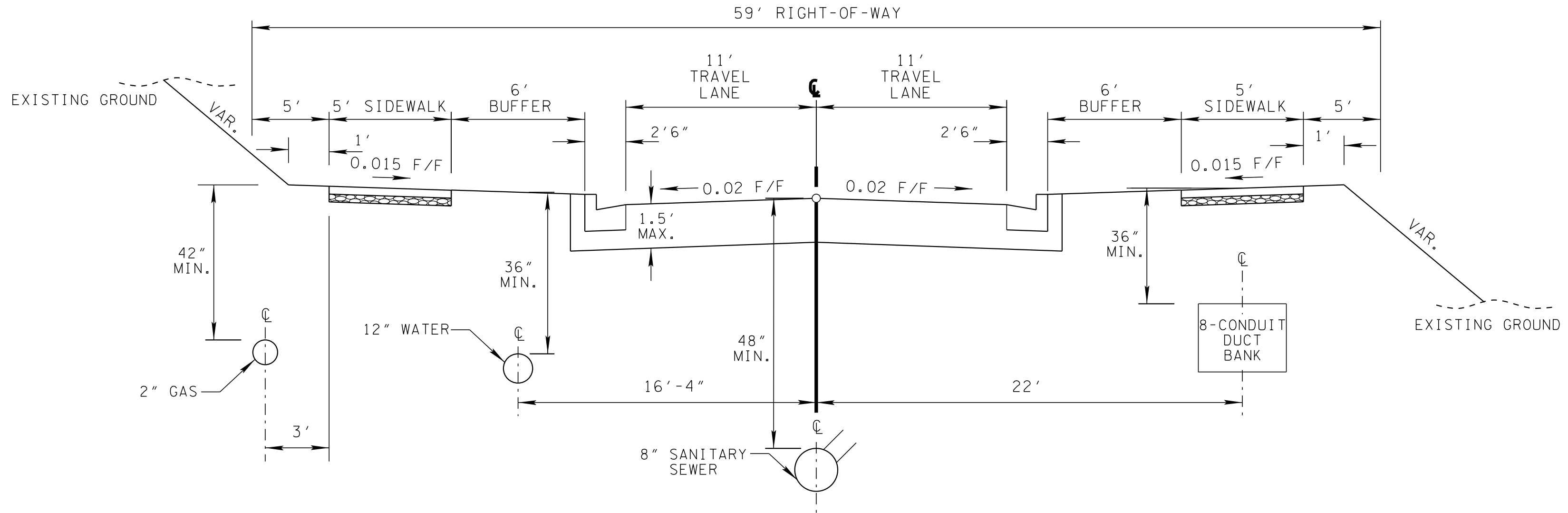
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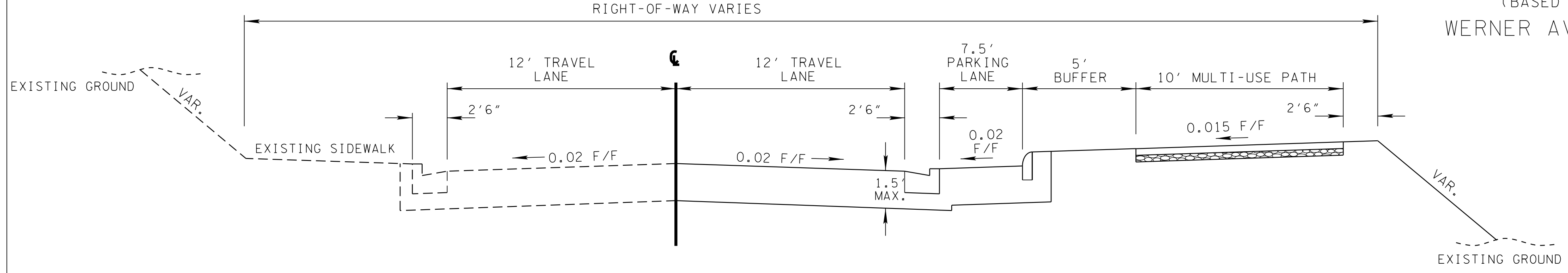
ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
SPRINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE



**FARADAY STREET**  
(BASED ON STD. DWG. RD01-TS-6A)  
TESLA BOULEVARD TO WERNER AVENUE



**FARADAY STREET**  
(BASED ON STD. DWG. RD01-TS-6A)  
WERNER AVENUE TO LODGE STREET



**MILLS STREET / LODGE STREET**  
(BASED ON STD. DWG. RD01-TS-6A)  
HUNT ROAD TO FARADAY STREET

REVISION		
No.	Date	Revision

TYPICAL SECTIONS

**2D**  
SCALE: N/A  
PROJECT: 23166-05  
DATE: 2020

# SPRINGBROOK FARM NOTES

## MASTER PLAN

- (1) THE PLAN IS TO SERVE AS A MINIMUM STANDARD FOR INFRASTRUCTURE INSTALLED IN CONJUNCTION WITH THE DEVELOPMENT OF THE PROPERTY AS APPROVED BY THE CITY OF ALCOA. ALL PUBLIC STREETS CONSTRUCTED AS PART OF A PRIVATE DEVELOPMENT SHALL UTILIZE THIS PLAN IN DEVELOPMENT OF THEIR ENGINEERED DRAWINGS.

## UTILITIES

- (2) ALL PUBLIC UTILITIES SHALL BE INSTALLED WITHIN THE ROADWAY ROW CORRIDOR.
- (3) REFERENCE THE TYPICAL SECTIONS WITHIN THIS PLAN TO DETERMINE LOCATION AND TYPES OF UTILITIES REQUIRED ALONG EACH ROAD WITHIN THE DEVELOPMENT.
- (4) MATERIAL AND SPECIFICATIONS FOR UTILITIES SHALL FOLLOW THE CITY'S STANDARD SPECIFICATIONS FOR WATER, SEWER, AND ELECTRIC. ALL PRIVATE UTILITIES INSTALLED WITHIN THE ROW SHALL FOLLOW THE OWNERS SPECIFICATIONS AND BE APPROVED BY THE CITY BEFORE FINAL DESIGN.
- (5) ALL UTILITIES SHARE BE REVIEWED AND APPROVED BY THE UTILITY AND RECEIVE ALL OTHER REQUIRED REGULATORY AGENCY(S) APPROVALS.
- (6) PRIVATE UTILITIES ARE NOT TO BE PLACED WITHING THE PUBLIC RIGHT-OF-WAY.
- (7) ADDITIONAL FIRE PROTECTION SHALL BE REQUIRED AS PER CITY OF ALCOA/NFPA REQUIREMENTS SHOULD THE ROADWAY NETWORK BE MODIFIED.
- (8) PRIVATE FIRE HYDRANTS SHALL BE INSTALLED ON PRIVATE PROPERTY TO MEET NFPA/FIRE CODE REQUIREMENTS.

## ROADWAY

- (9) ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ALCOA STREET & DRAINAGE – CONSTRUCTION SPECIFICATIONS.
- (10) ROADWAY TYPICAL SECTIONS HAVE BEEN INCORPORATED INTO THE PLAN. THE DIMENSIONS SHOWN ON THE TYPICALS SHALL BE FOLLOWED FOR LANE WIDTH AND BUFFERS. ANY VARIATION FROM THE TYPICAL SHALL REQUIRE WRITTEN APPROVAL FROM THE CITY OF ALCOA ENGINEERING DEPARTMENT.
- (11) CROSSWALKS AT INTERSECTIONS SHALL BE AT GRADE LONGITUDINAL THERMOPLASTIC CROSSWALKS. ALL CROSSWALKS AT MIDBLOCK CROSSINGS SHALL BE RAISED CROSSWALKS. SEE DETAIL PROVIDED WITHIN THE PLAN.

## STORM WATER

- (12) THE PROPOSED SITE HAS BEEN BROKEN INTO STORMWATER SECTORS TO HELP THE CITY PLAN FOR THE DEVELOPMENT IN PHASES. ALL SITES WITHIN THE DEVELOPMENT HAVE BEEN DIVIDED INTO SEPARATE AREAS TO DETERMINE OUTFALLS. DRAINAGE STUBS HAVE BEEN LOCATED ALONG THE ROADWAY NETWORK WITH ASSIGNED MAXIMUM FLOWS.
- (13) EACH SITE WILL SUBMIT TO THE CITY FOR REVIEW THEIR DESIGN POST CONDITION FLOWS. SITES THAT REQUIRE DETENTION SHALL DEMONSTRATE TO THE CITY'S SATISFACTION THAT THEY MEET THE ASSIGNED FLOW RATES AS ASSIGNED IN THIS MASTER PLAN.
- (14) MATERIAL TYPE FOR STORM PIPE AND STRUCTURES IS RECOMMENDED TO BE REINFORCED CONCRETE. OTHER PIPE MATERIALS WILL BE REVIEWED FOR ACCEPTANCE.

## LANDSCAPING AND IRRIGATION

- (15) PROPOSED LANDSCAPING FOR ALL PUBLIC ROW SHALL BE SUBMITTED TO THE CITY FOR REVIEW. IT IS THE CITY'S INTENT TO CONTINUE THE LANDSCAPING THEME AS INSTALLED ALONG TESLA BOULEVARD. VARIATION IN PLANT SPECIES IS ACCEPTABLE UPON THE APPROVAL OF THE CITY.
- (16) ALL BOULEVARD MEDIANS SHALL HAVE IRRIGATION INSTALLED. SPRINKLER HEADS SHALL BE TORO 1800 SERIES IRRIGATION HEADS WITH 18 FOOT SPREAD OR APPROVED EQUAL.

## SIDEWALK

- (17) SIDEWALKS CONSTRUCTED WITHIN THE PUBLIC ROW SHALL HAVE 4 INCHES OF MINERAL AGGREGATE, TYPE A BASE, GRADING D PER TDOT SPECIFICATIONS.

- (18) TRASH CANS AND BENCHES PROPOSED ALONG THE PUBLIC ROW SHALL BE APPROVED BY THE CITY. APPROVAL SHALL BE FOR BOTH TYPE AND SPACING.

## PAVEMENT

- (19) PAVEMENT DESIGNS FOR ALL PUBLIC STREETS SHALL BE SUBMITTED TO THE CITY OF ALCOA FOR REVIEW AND APPROVAL.

## ENVIRONMENTAL

- (1) THE PROPOSED SPRINGBROOK FARM SITE IS PART OF A BROWNFIELD DEVELOPMENT. THE LAND IS UNDER A BROWNFIELD VOLUNTARY AGREEMENT WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC). THE DEVELOPMENT OF REMEDIAL ACTION PLANS OR SOILS MANAGEMENT PLANS FOR THE SITE SHALL BE COORDINATED THROUGH THE OWNER.

\$DATE\$  
\$TIME\$  
\$DGN\$



**Gresham  
Smith**

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ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
SPRINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE

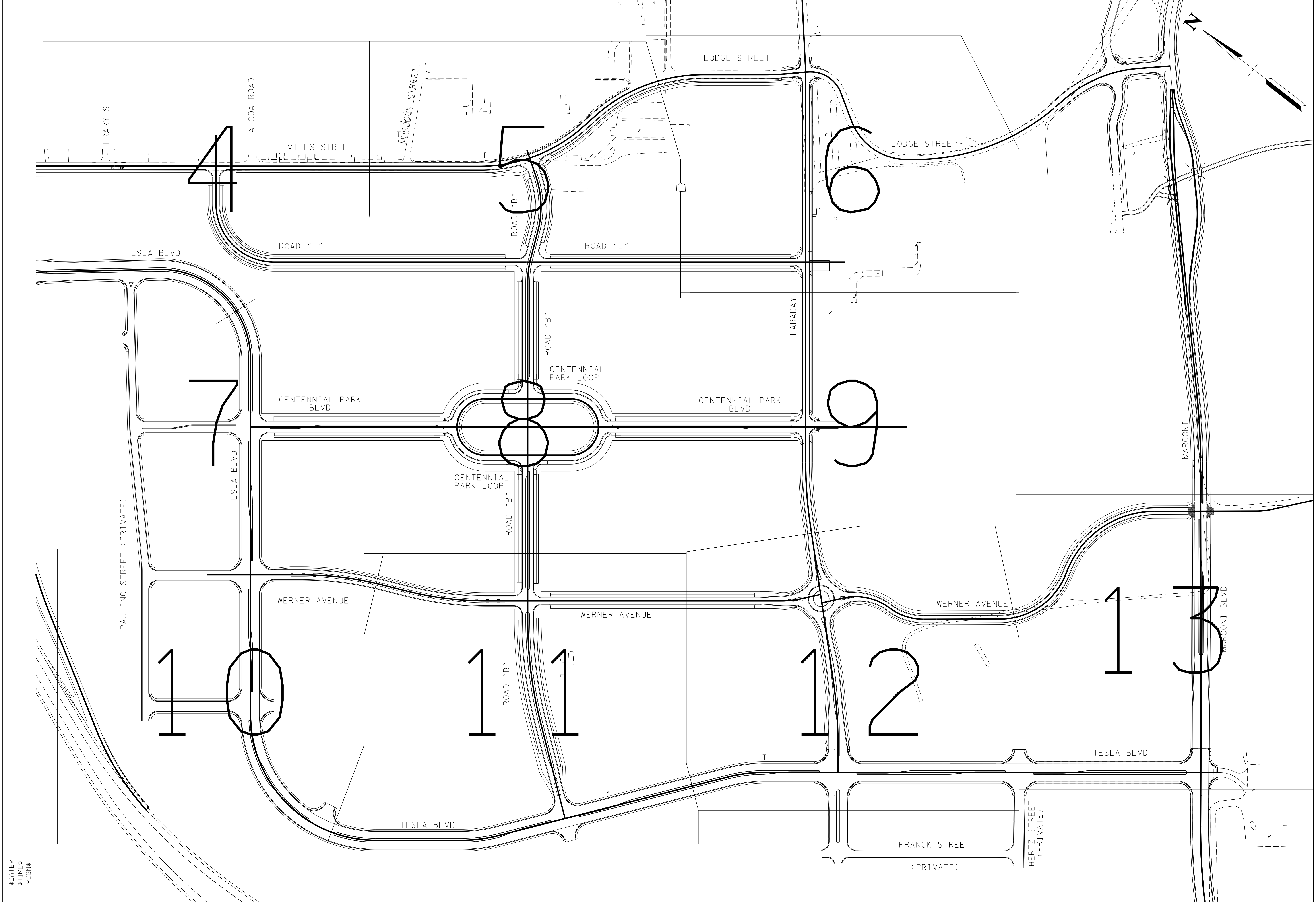
REVISION		
No.	Date	Revision

GENERAL NOTES

**2E**

SCALE: N/A  
PROJECT: 23166-05  
DATE: 2020

REVISION		
No.	Date	Revision



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\$TIMES \$  
\$DGN\$



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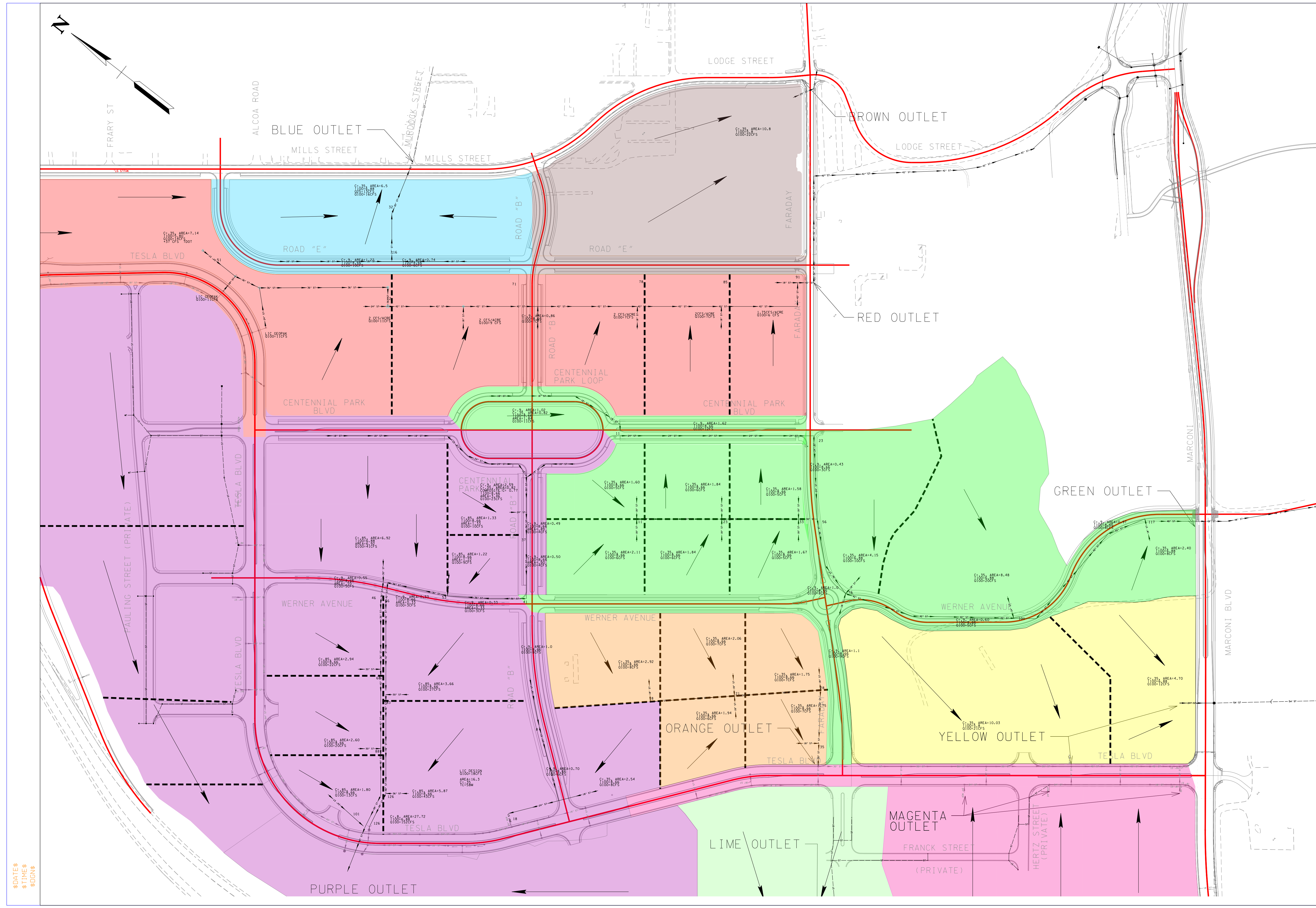
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ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
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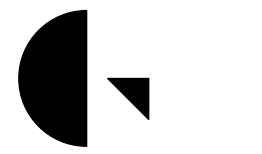
REVISION		
No.	Date	Revision

MASTER STORMWATER LAYOUT

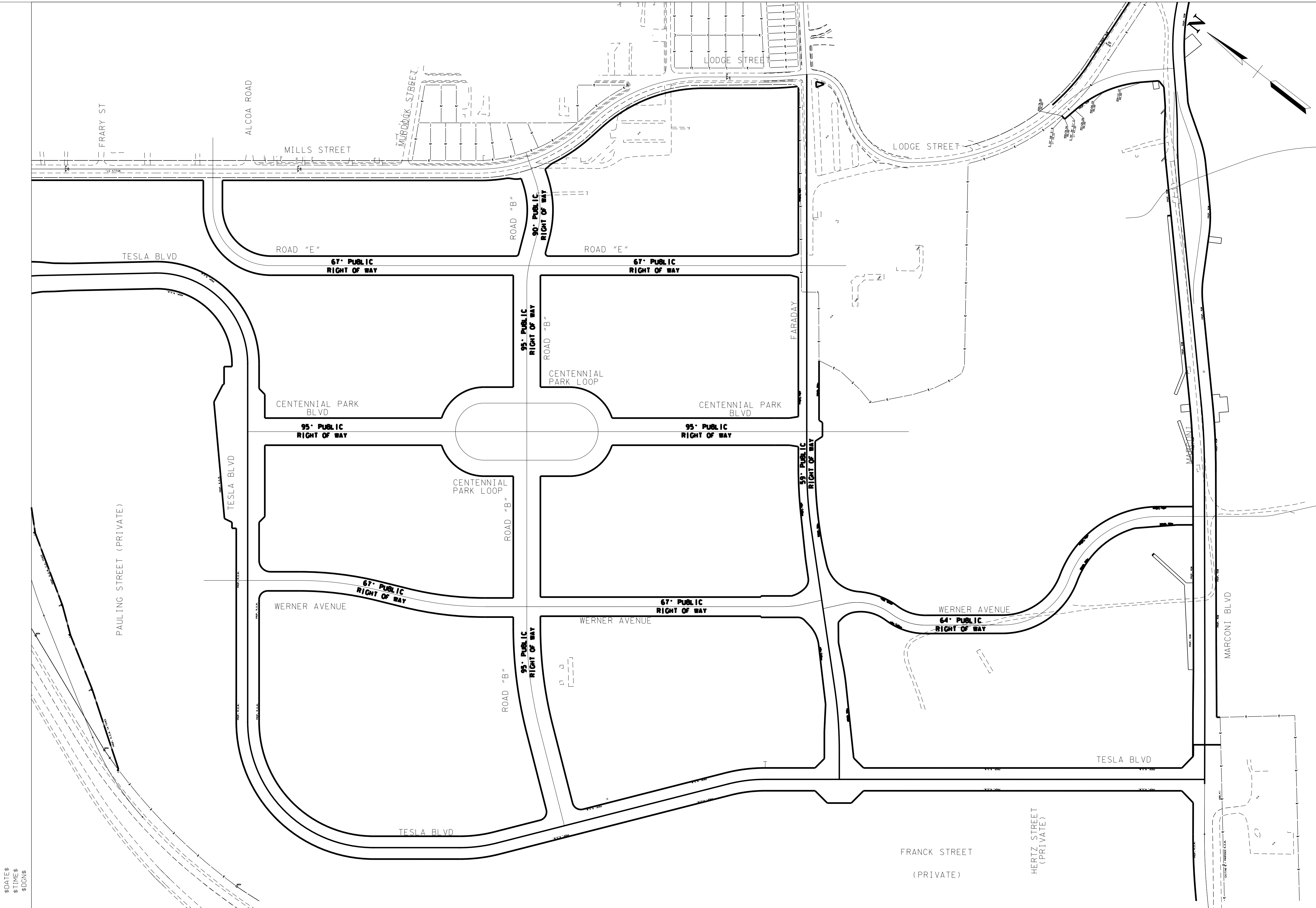
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PROJECT: 20166.00  
DATE: 2020



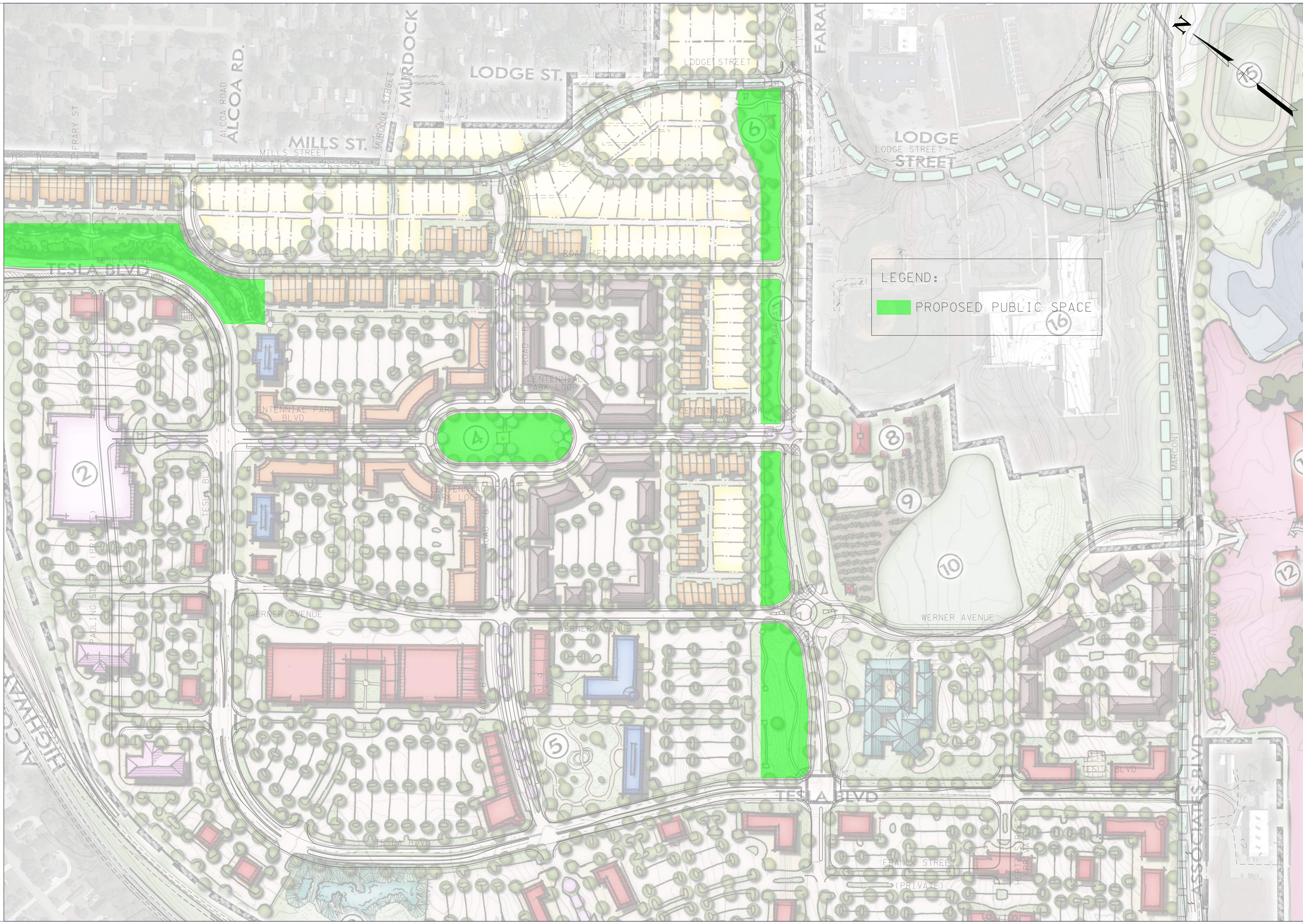
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No.	Date	Revision



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\$TIMES\$  
\$DGN\$



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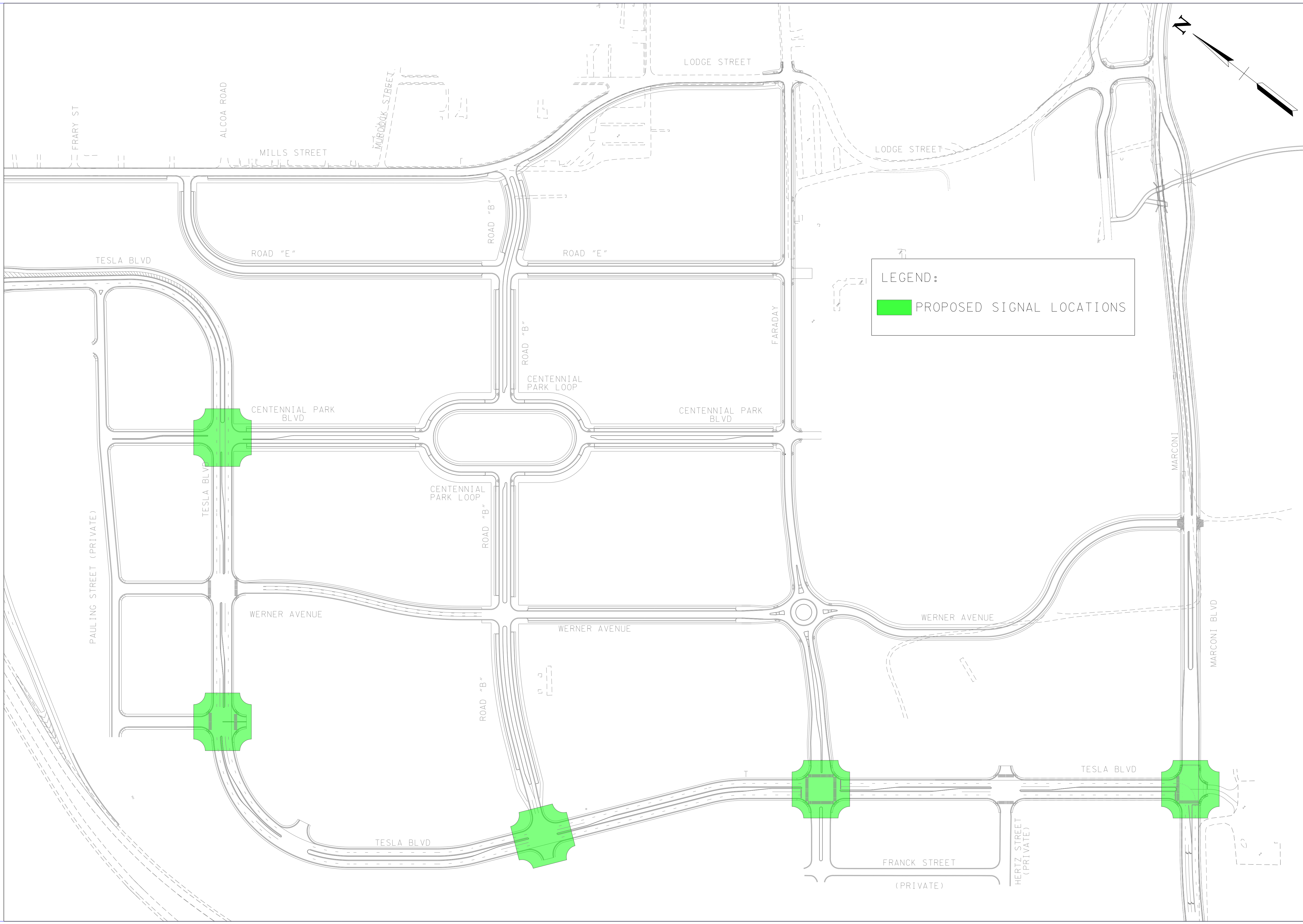
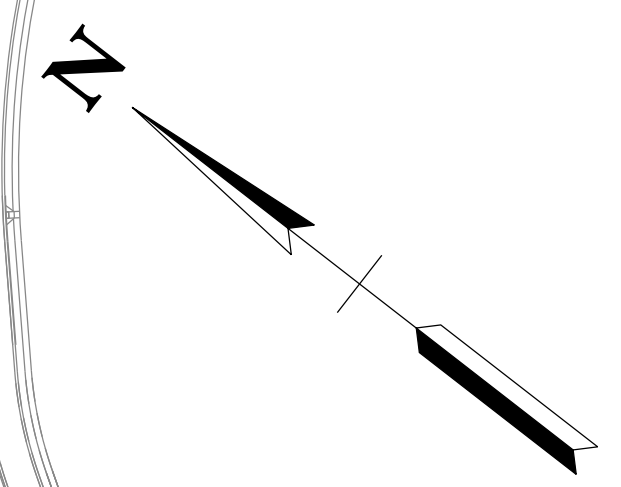
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REVISION

No.	Date	Revision

\$DATE \$  
\$TIME \$  
\$DGN \$

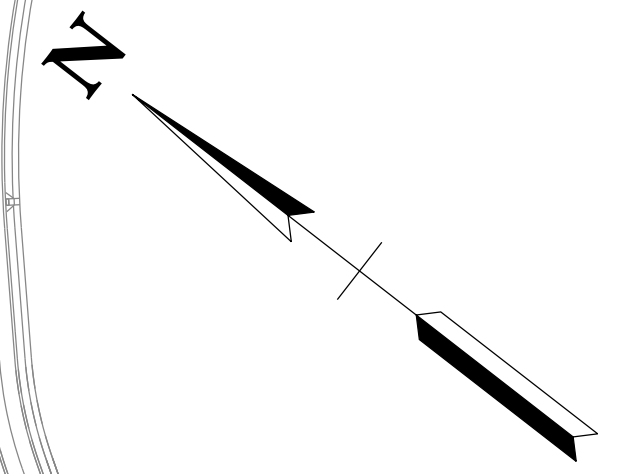
PUBLIC SPACE



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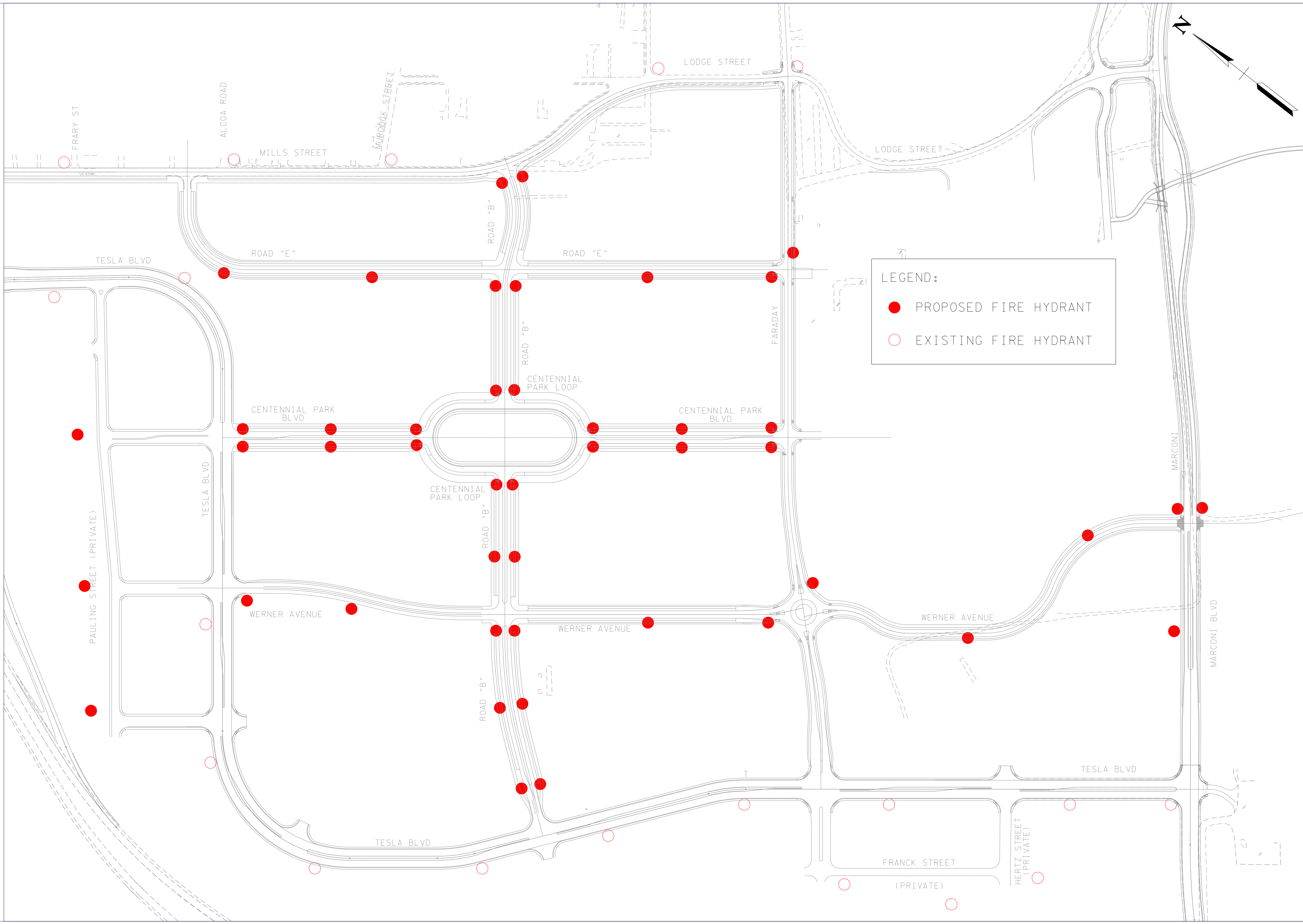
REVISION		
No.	Date	Revision

\$DATE \$  
 \$TIME \$  
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LEGEND:

- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT



REVISION		
No.	Date	Revision

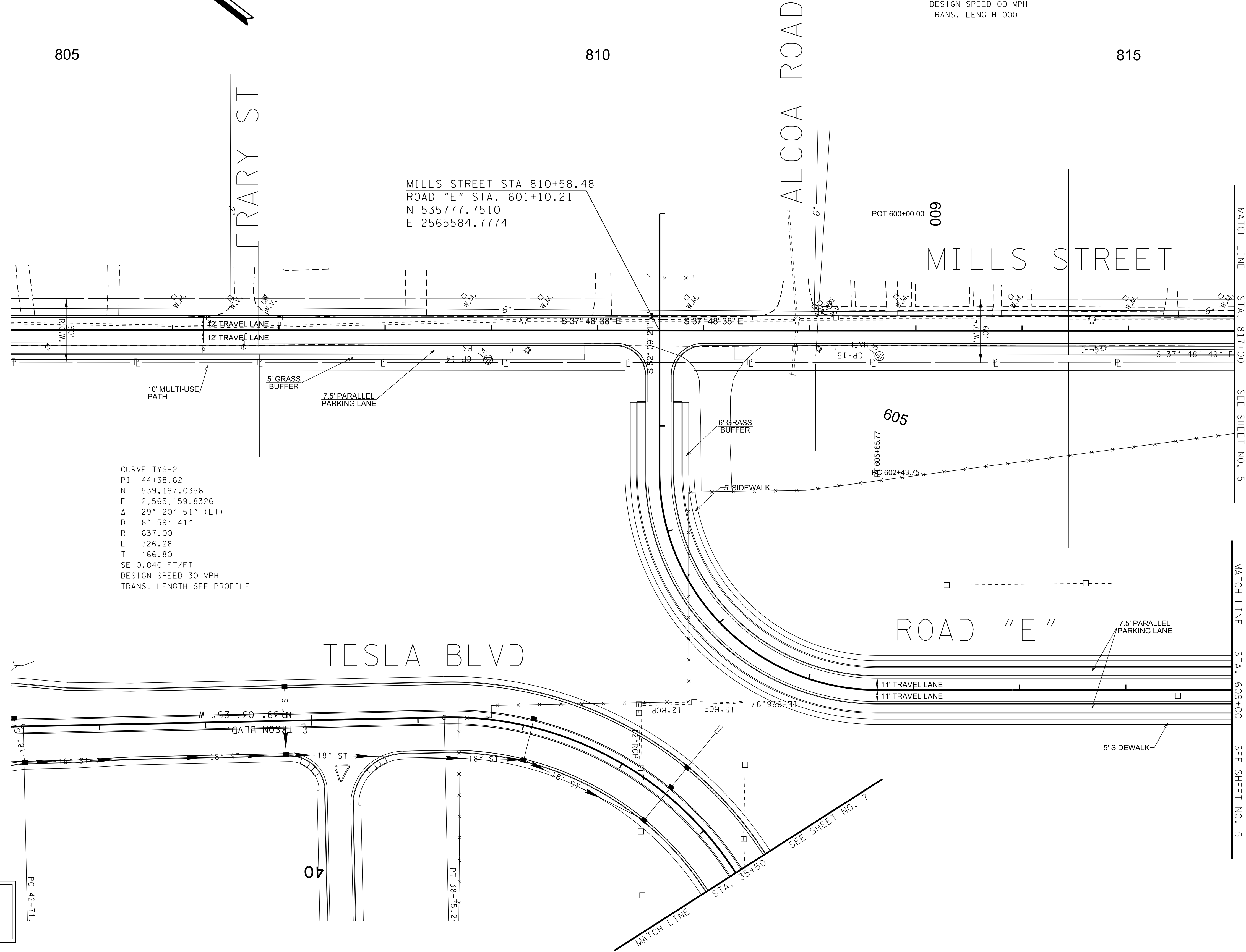
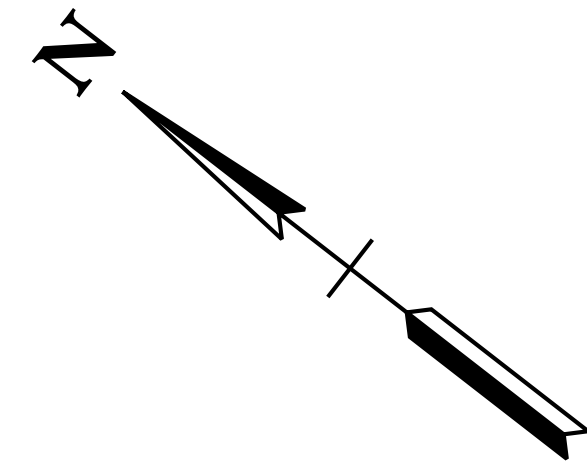
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\$DGN\$

PUBLIC FIRE PROTECTION PLAN

3E  
SCALE: 1"=150'  
PROJECT: 20166.00  
DATE: 2020

REVISION		
No.	Date	Revision

CURVE ROADE-1  
PI 604+48.75  
N 538,615.3202  
E 2,565,659.6940  
Δ 90° 00' 00" (LT)  
D 27° 56' 57"  
R 205.00  
L 322.01  
T 205.00  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

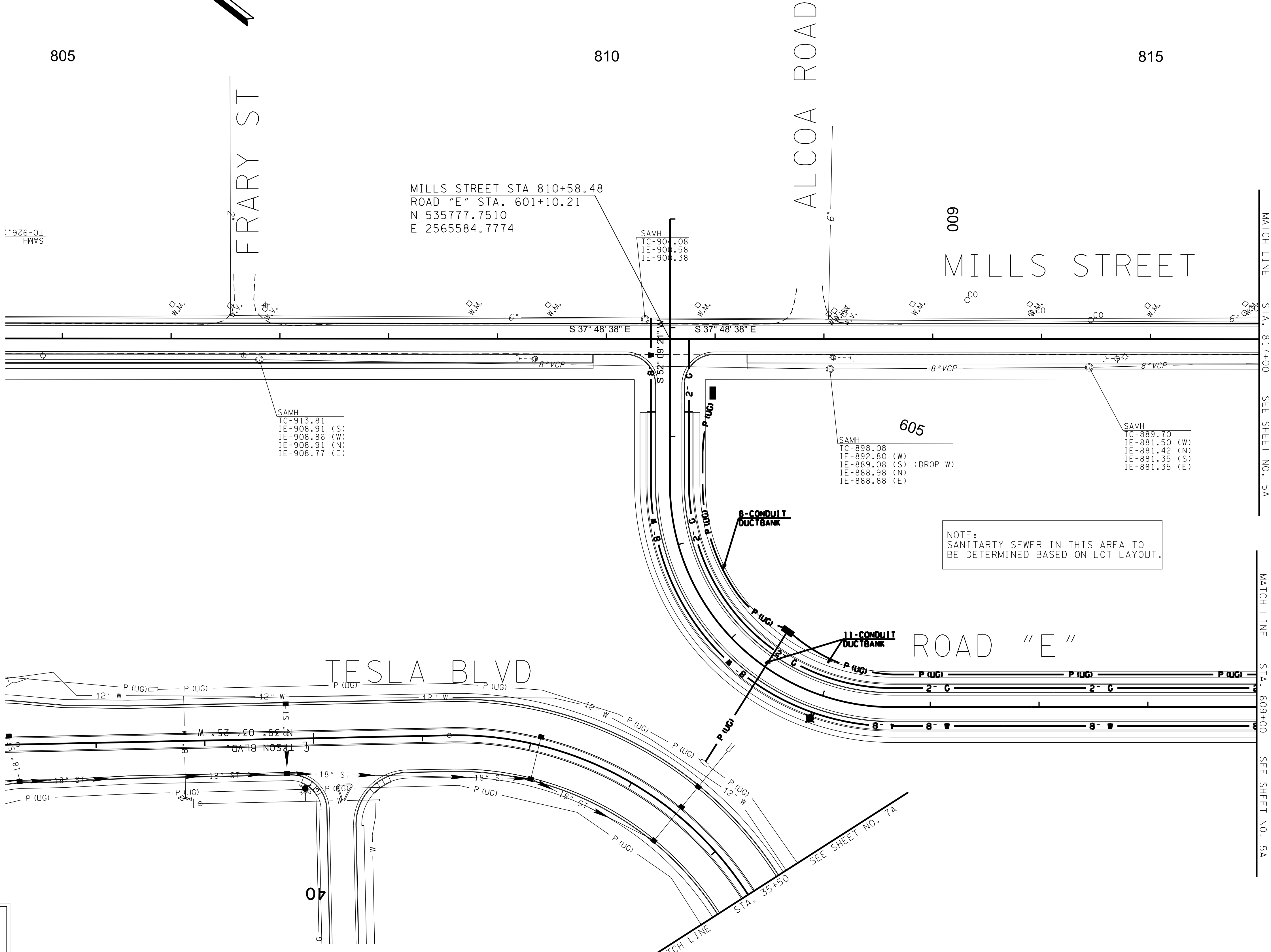
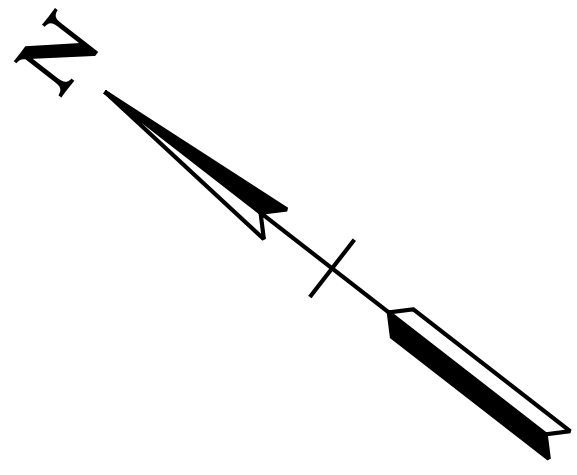


MILLS STREET STA 810+58.48  
ROAD "E" STA. 601+10.21  
N 535777.7510  
E 2565584.7774

CURVE TYS-2  
PI 44+38.62  
N 539,197.0356  
E 2,565,159.8326  
Δ 29° 20' 51" (LT)  
D 8° 59' 41"  
R 637.00  
L 326.28  
T 166.80  
SE 0.040 FT/FT  
DESIGN SPEED 30 MPH  
TRANS. LENGTH SEE PROFILE

COORDINATE VALUES ARE NAD 83 (1995),  
ARE DATUM ADJUSTED BY THE FACTOR OF  
1.00009 AND ARE TIED TO TENNESSEE  
GEODETIC REFERENCE NETWORK. ALL  
ELEVATIONS ARE REFERENCED TO  
THE NAVD 1988.

\$DATE\$  
\$TIME\$  
\$DGN\$



MILLS STREET STA 810+58.48  
ROAD "E" STA. 601+10.21  
N 535777.7510  
E 2565584.7774

MILLS STREET

TESLA BLVD

ROAD "E"

NOTE:  
SANITARY SEWER IN THIS AREA TO  
BE DETERMINED BASED ON LOT LAYOUT.

COORDINATE VALUES ARE NAD 83 (1995),  
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1.00009 AND ARE TIED TO TENNESSEE  
GEODETIC REFERENCE NETWORK. ALL  
ELEVATIONS ARE REFERENCED TO  
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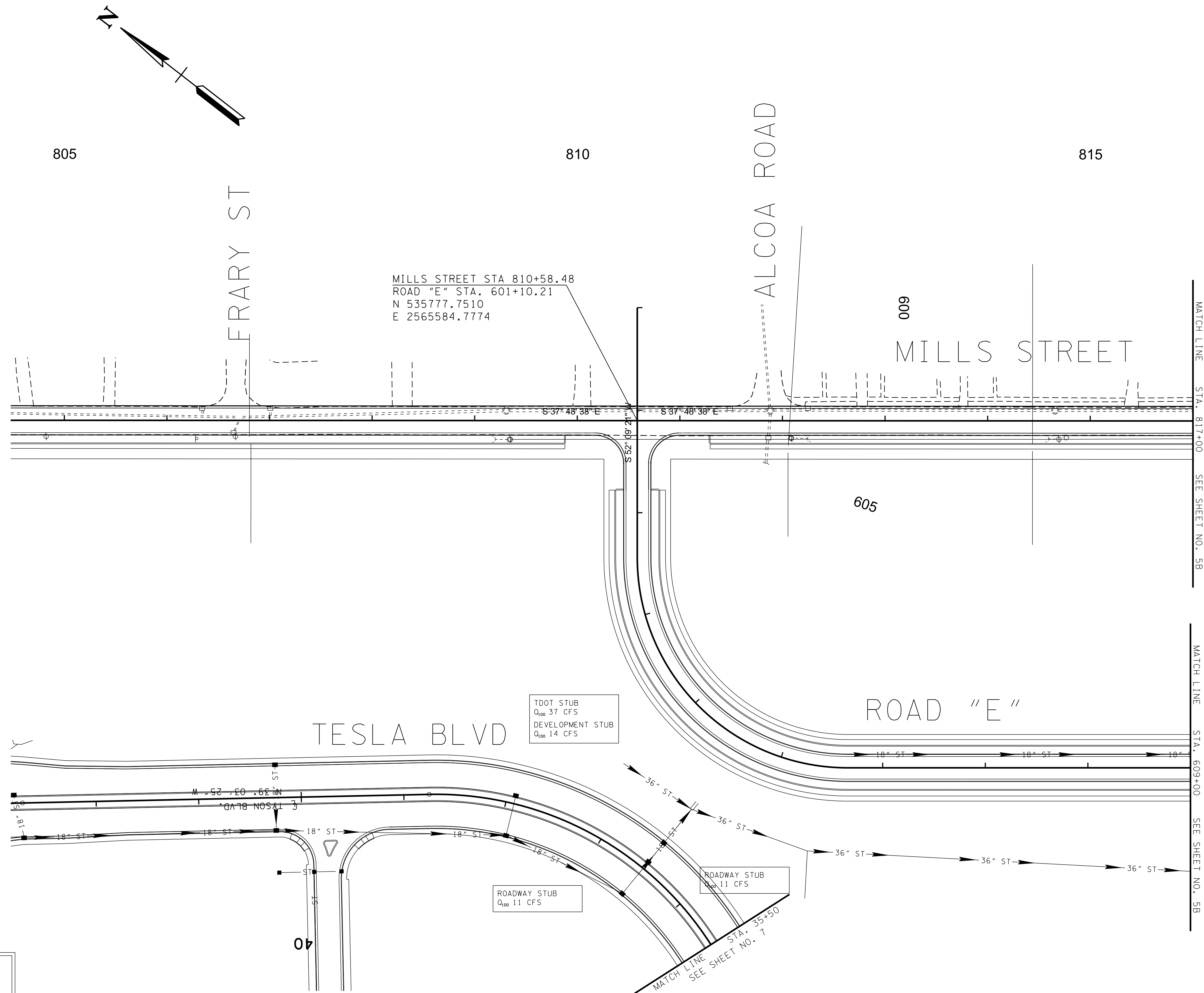
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REVISION		
No.	Date	Revision

REVISION		
No.	Date	Revision

STORMWATER PLAN

4B  
SCALE: 1"=50'  
PROJECT: 20166.05  
DATE: 2020

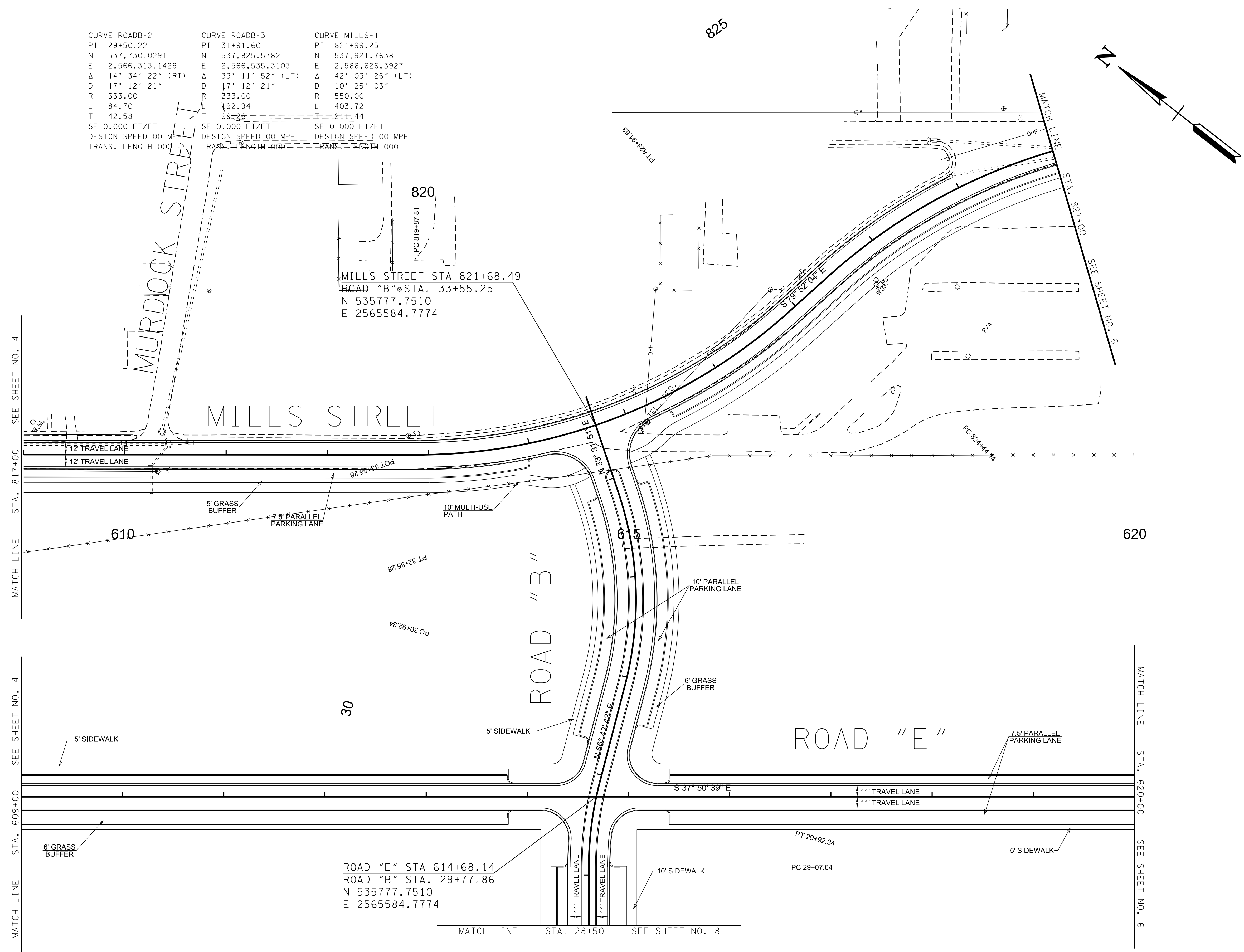


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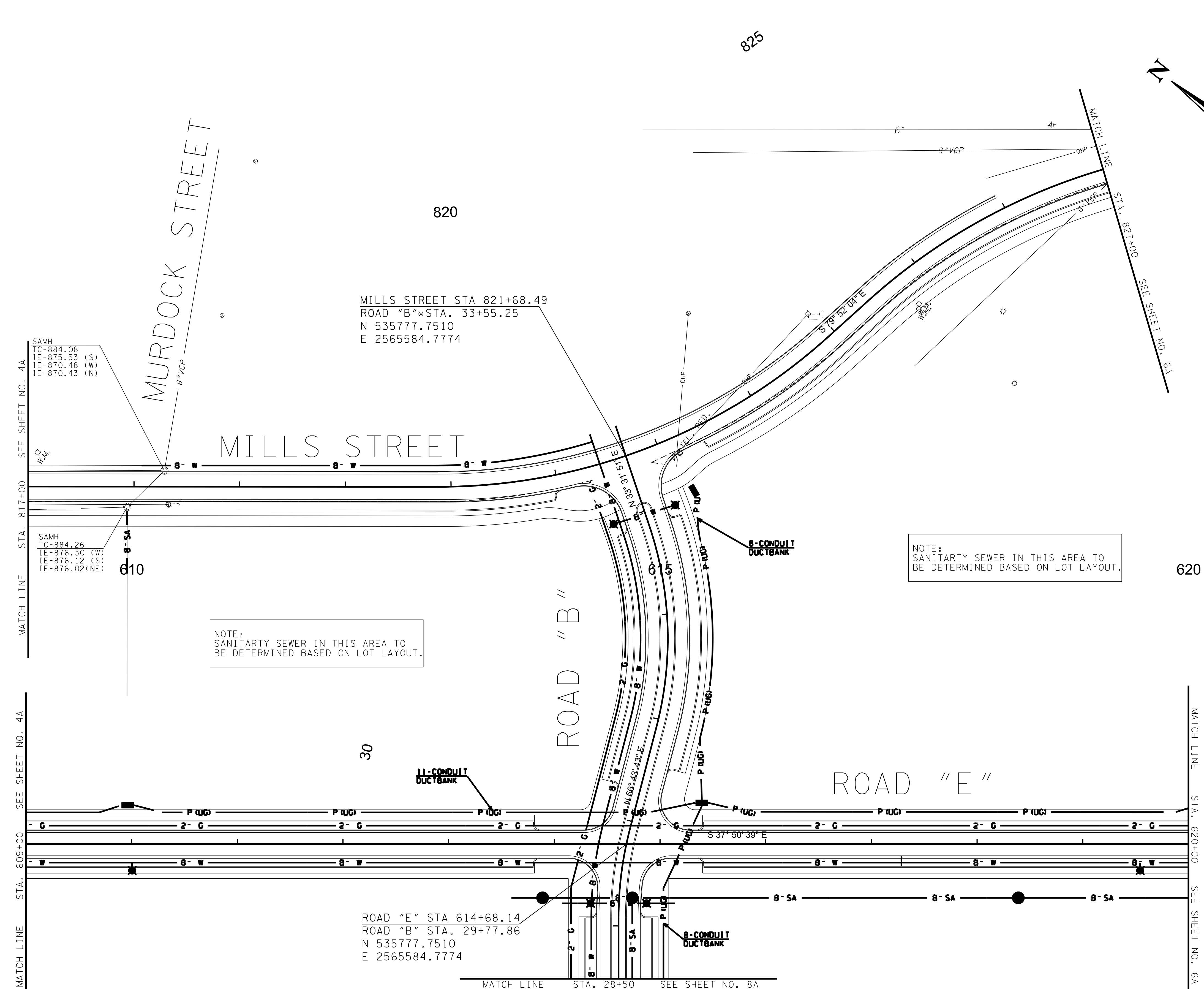
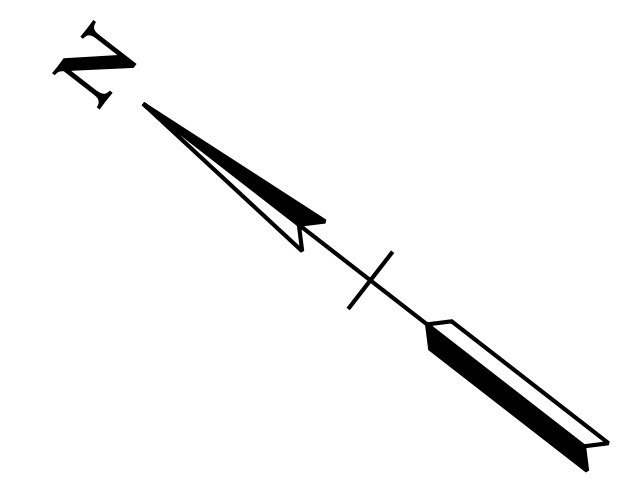
REVISION		
No.	Date	Revision

<b>CURVE ROADB-2</b> PI 29+50.22 N 537,730.0291 E 2,566,313.1429 Δ 14° 34' 22" (RT) D 17° 12' 21" R 333.00 L 84.70 T 42.58 SE 0.000 FT/FT DESIGN SPEED 00 MPH TRANS. LENGTH 000	<b>CURVE ROADB-3</b> PI 31+91.60 N 537,825.5782 E 2,566,535.3103 Δ 33° 11' 52" (LT) D 17° 12' 21" R 333.00 L 192.94 T 98.26 SE 0.000 FT/FT DESIGN SPEED 00 MPH TRANS. LENGTH 000	<b>CURVE MILLS-1</b> PI 821+99.25 N 537,921.7638 E 2,566,626.3927 Δ 42° 03' 26" (LT) D 10° 25' 03" R 550.00 L 403.72 T 211.44 SE 0.000 FT/FT DESIGN SPEED 00 MPH TRANS. LENGTH 000
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\$DATE\$  
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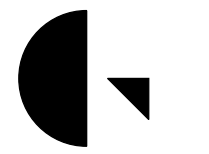
NOTE:  
SANITARY SEWER IN THIS AREA TO  
BE DETERMINED BASED ON LOT LAYOUT.

NOTE:  
SANITARY SEWER IN THIS AREA TO  
BE DETERMINED BASED ON LOT LAYOUT.

\$DATE\$  
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BLOUNT COUNTY, TENNESSEE

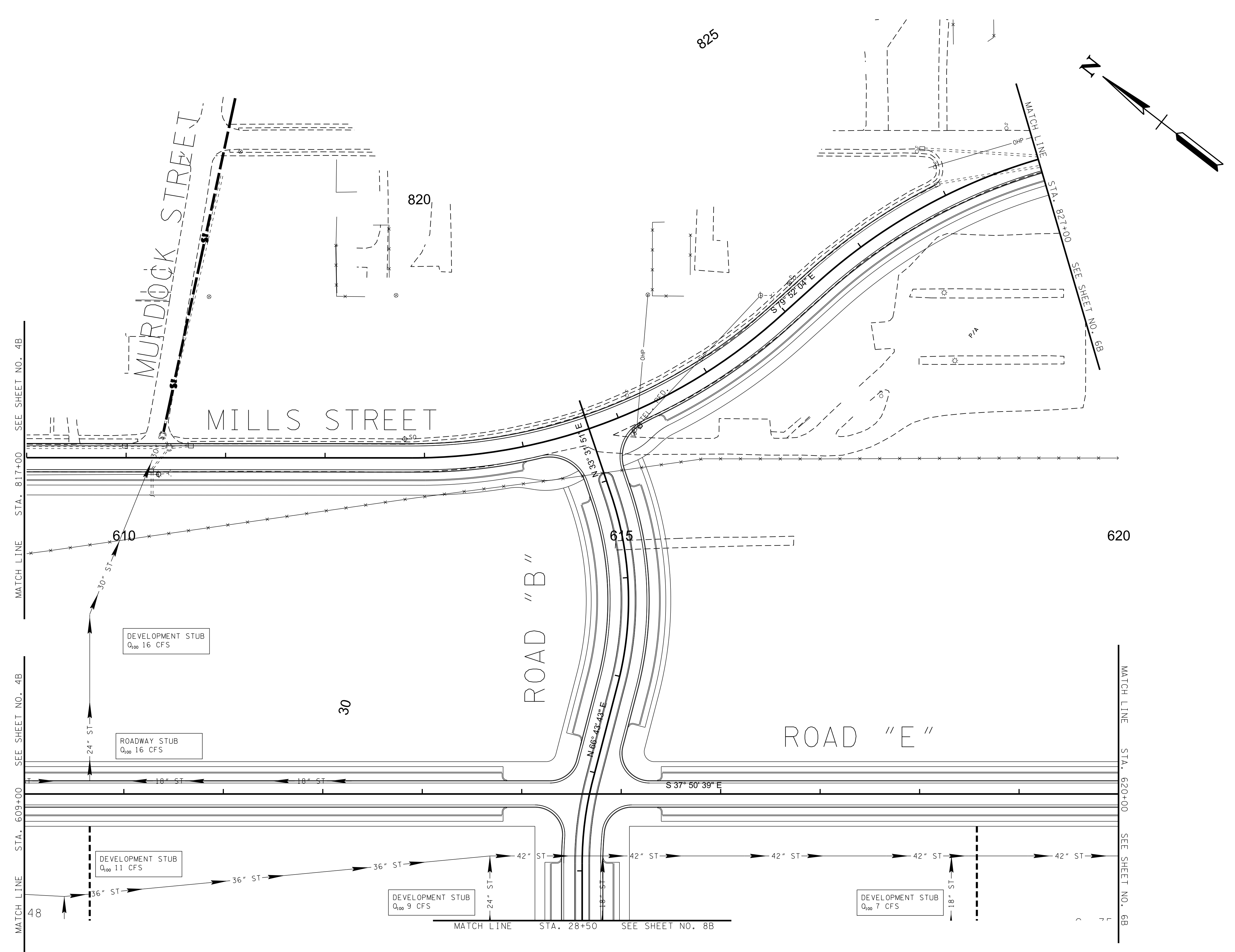
REVISION		
No.	Date	Revision

STORMWATER PLAN

5B  
SCALE: 1"=50'  
PROJECT: 29166-05  
DATE: 2/20

\$DATE\$  
\$TIME\$  
\$DGN\$

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825  
820  
620  
30  
610  
615  
48  
7



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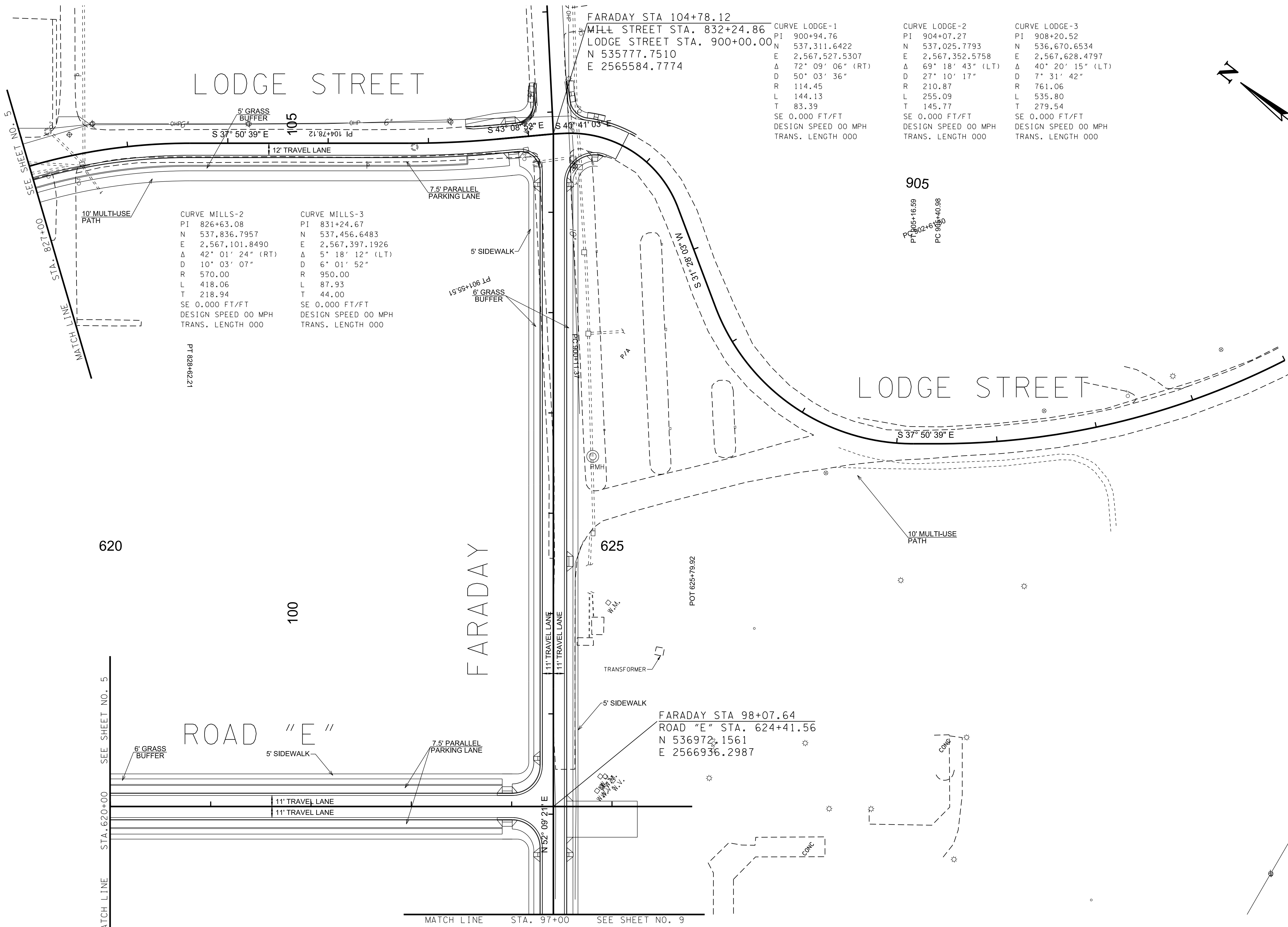
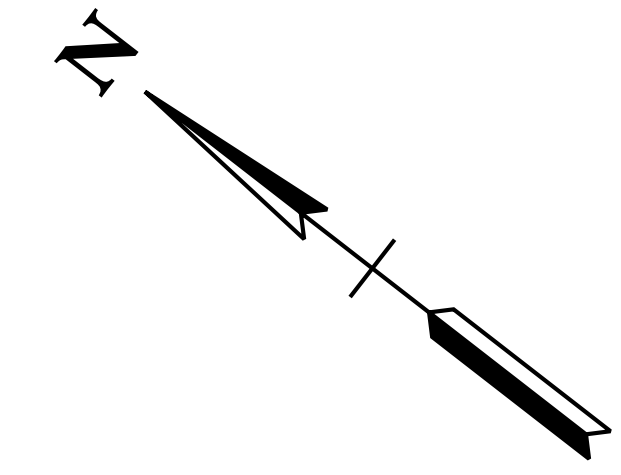
ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
SPRINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE

REVISION

No.	Date	Revision

ROADWAY PLAN

6  
SCALE: 1"=50'  
PROJECT: 20166-05  
DATE: 2020



FARADAY STA 104+78.12  
MILL STREET STA. 832+24.86  
LODGE STREET STA. 900+00.00  
N 535777.7510  
E 2565584.7774

CURVE LODGE-1  
PI 900+94.76  
N 537,311.6422  
E 2,567,527.5307  
Δ 72° 09' 06" (RT)  
D 50' 03' 36"  
R 114.45  
L 144.13  
T 83.39  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

CURVE LODGE-2  
PI 904+07.27  
N 537,025.7793  
E 2,567,352.5758  
Δ 69° 18' 43" (LT)  
D 27' 10' 17"  
R 210.87  
L 255.09  
T 145.77  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

CURVE LODGE-3  
PI 908+20.52  
N 536,670.6534  
E 2,567,628.4797  
Δ 40° 20' 15" (LT)  
D 7' 31' 42"  
R 761.06  
L 535.80  
T 279.54  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

CURVE MILLS-2  
PI 826+63.08  
N 537,836.7957  
E 2,567,101.8490  
Δ 42° 01' 24" (RT)  
D 10° 03' 07"  
R 570.00  
L 418.06  
T 218.94  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

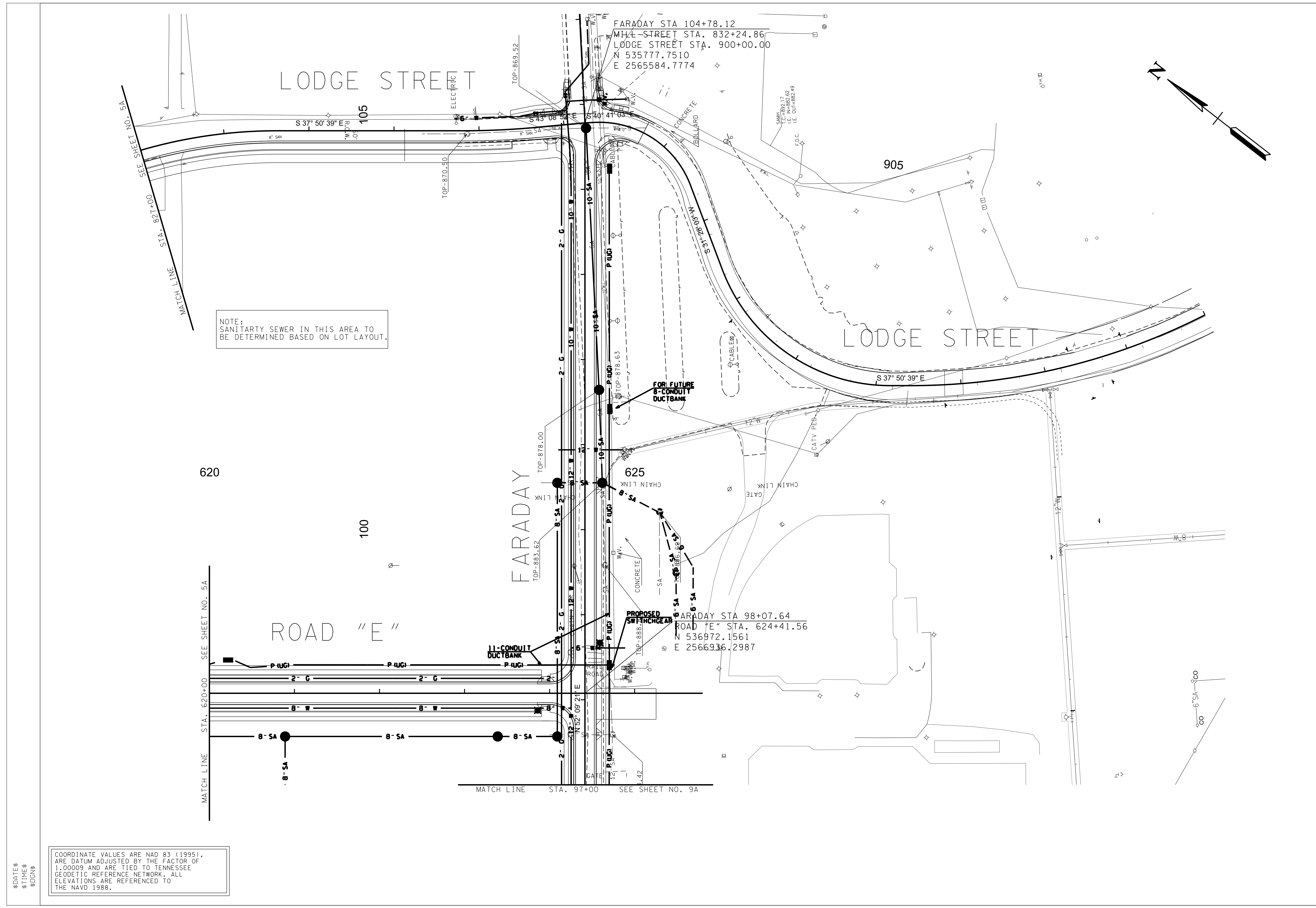
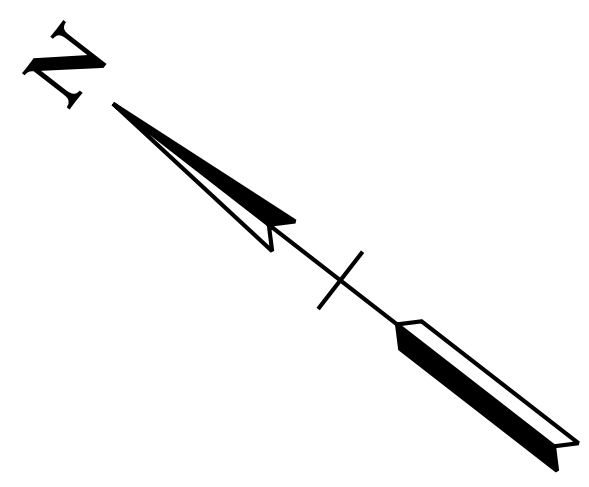
CURVE MILLS-3  
PI 831+24.67  
N 537,456.6483  
E 2,567,397.1926  
Δ 5° 18' 12" (LT)  
D 6° 01' 52"  
R 950.00  
L 87.93  
T 44.00  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

FARADAY STA 98+07.64  
ROAD "E" STA. 624+41.56  
N 536972.1561  
E 2566936.2987

COORDINATE VALUES ARE NAD 83 (1995),  
ARE DATUM ADJUSTED BY THE FACTOR OF  
1.00009 AND ARE TIED TO TENNESSEE  
GEODETIC REFERENCE NETWORK. ALL  
ELEVATIONS ARE REFERENCED TO  
THE NAVD 1988.

\$DATE\$  
\$TIME\$  
\$DGN\$

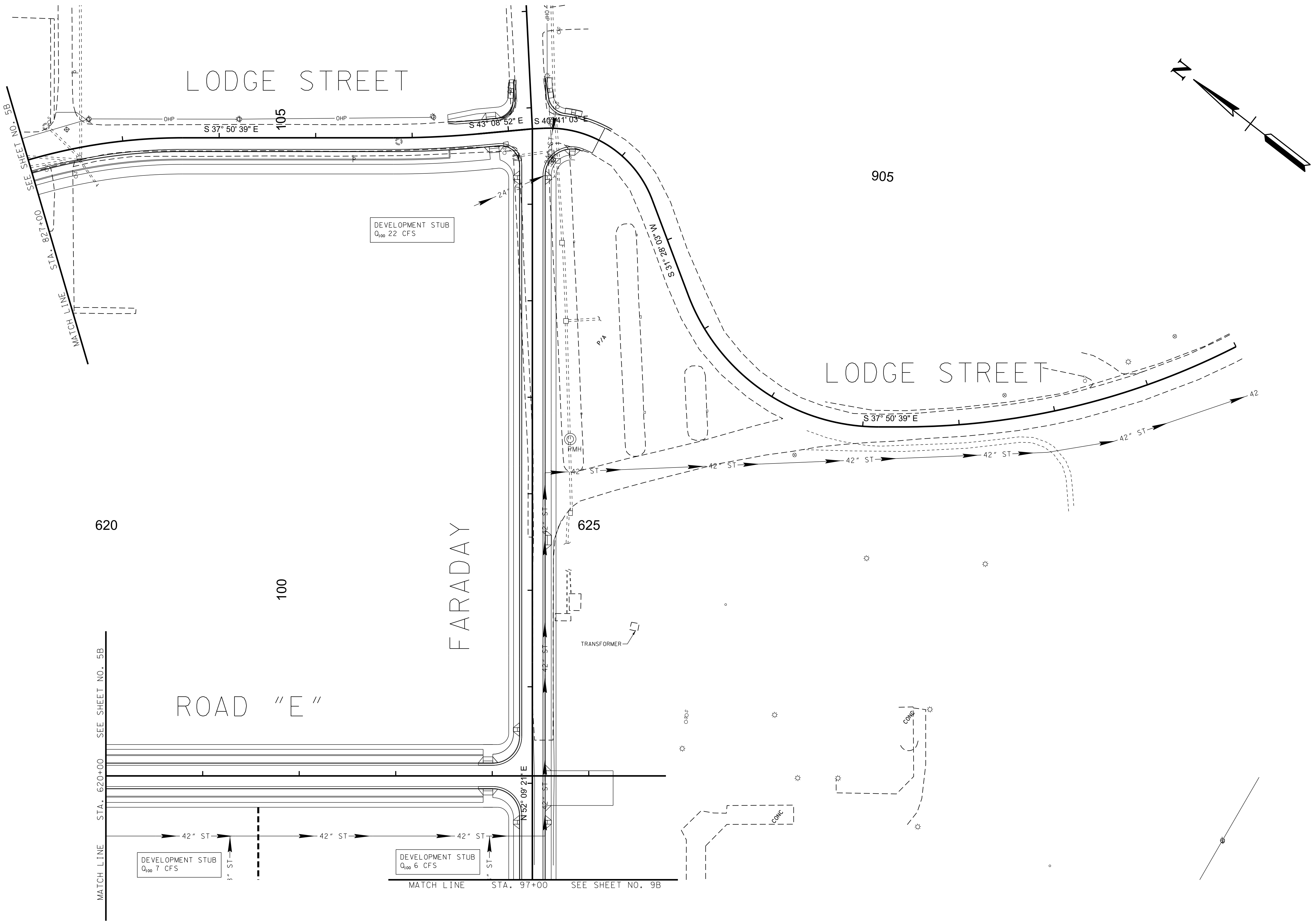
REVISION		
No.	Date	Revision



COORDINATE VALUES ARE NAD 83 (1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND ARE TIED TO TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

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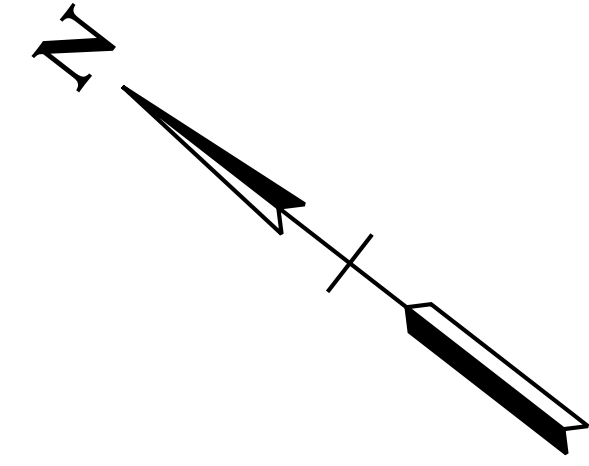


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ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
SPRINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE



28

CURVE TYS-1  
PI 36+93.80  
N 538,507.3416  
E 2,565,719.4672  
 $\Delta$  91° 12' 43" (LT)  
D 18° 01' 03"  
R 318.00  
L 506.24  
T 324.80  
SE 0.040 FT/FT  
DESIGN SPEED 30 MPH  
TRANS. LENGTH SEE PROFILE

TESLA BOULEVARD ROAD STA. 148+15.00 =  
TYS BLVD. STA. 32+96.21  
OFF 0.00'  
N 538263.4135  
E 2565405.5011

CENTENNIAL PARK BLVD STA. 60+00.00  
TESLA BOULEVARD STA. 146+50.00  
N 538162.1831  
E 2565275.2038

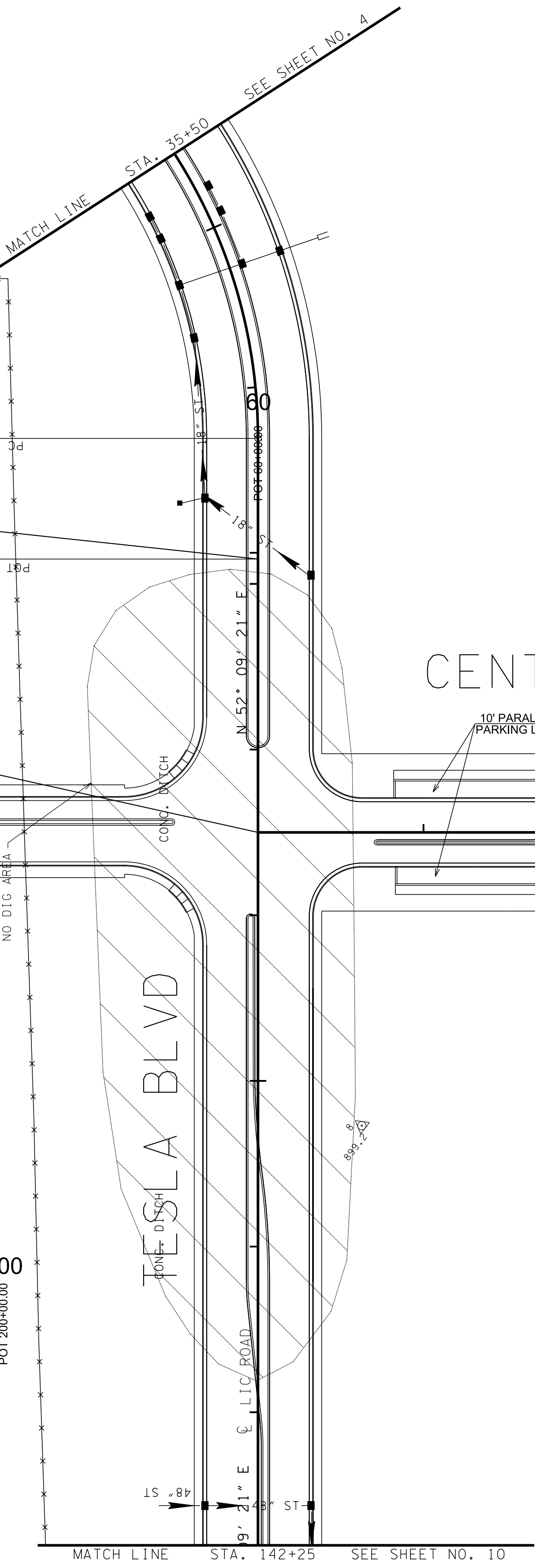
23 2

(PRIVATE)

145

200

205



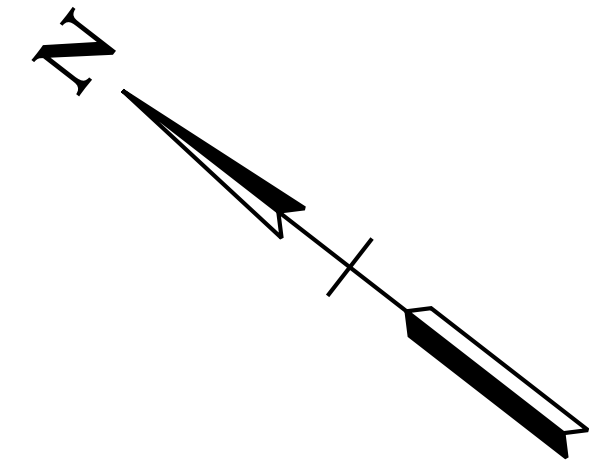
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REVISION

No.	Date	Revision

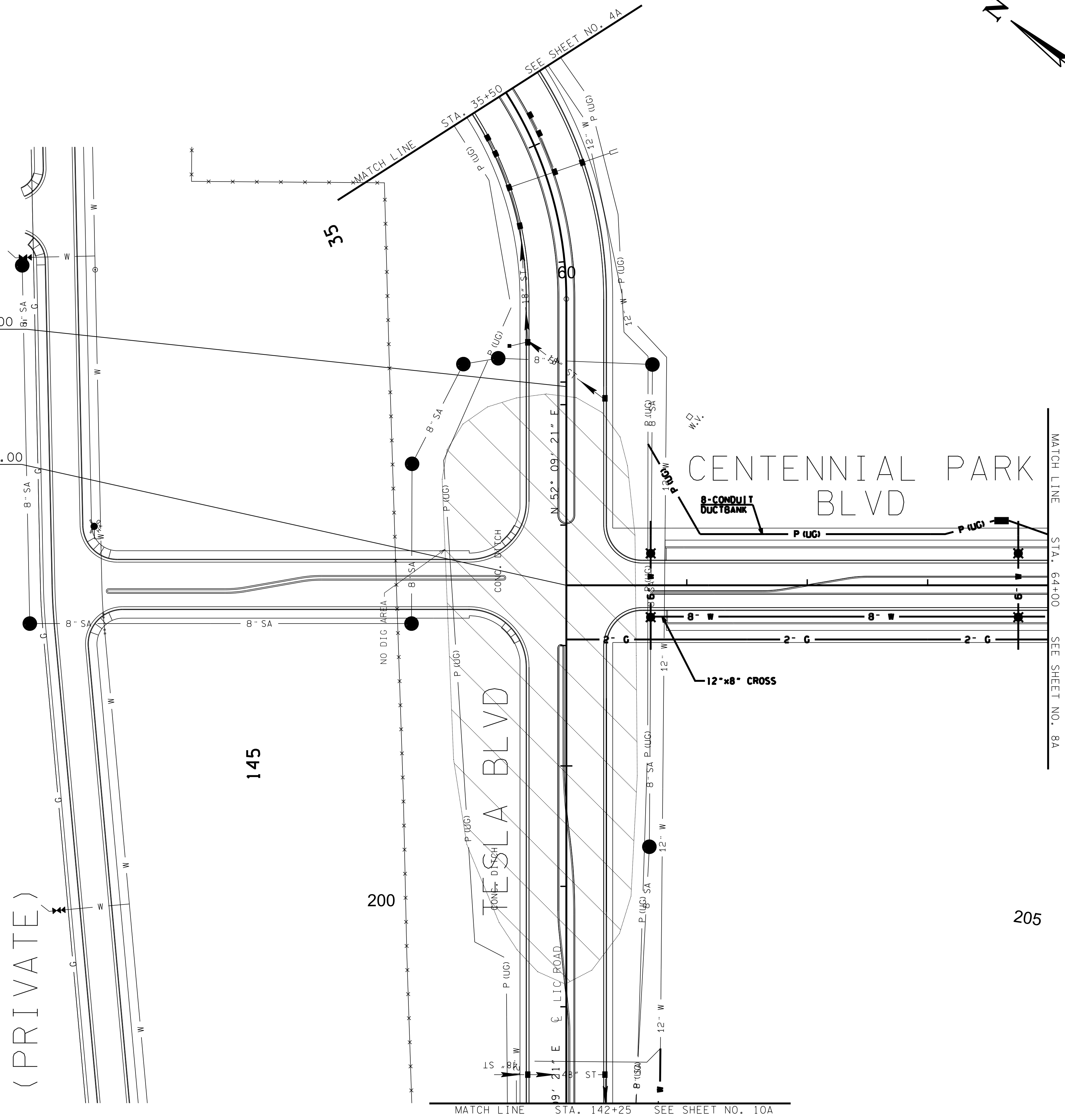
ROADWAY PLAN



TESLA BOULEVARD ROAD STA. 148+15.00  
TYS BLVD. STA. 32+96.21  
OFF 0.00'  
N 538263.4135  
E 2565405.5011

CENTENNIAL PARK BLVD STA. 60+00.00  
TESLA BOULEVARD STA. 146+50.00  
N 538162.1831  
E 2565275.2038

(PRIVATE)



\$DATE\$  
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REVISION		
No.	Date	Revision

UTILITIES PLAN

7A  
SCALE: 1"=50'  
PROJECT: 20166.00  
DATE: 2020





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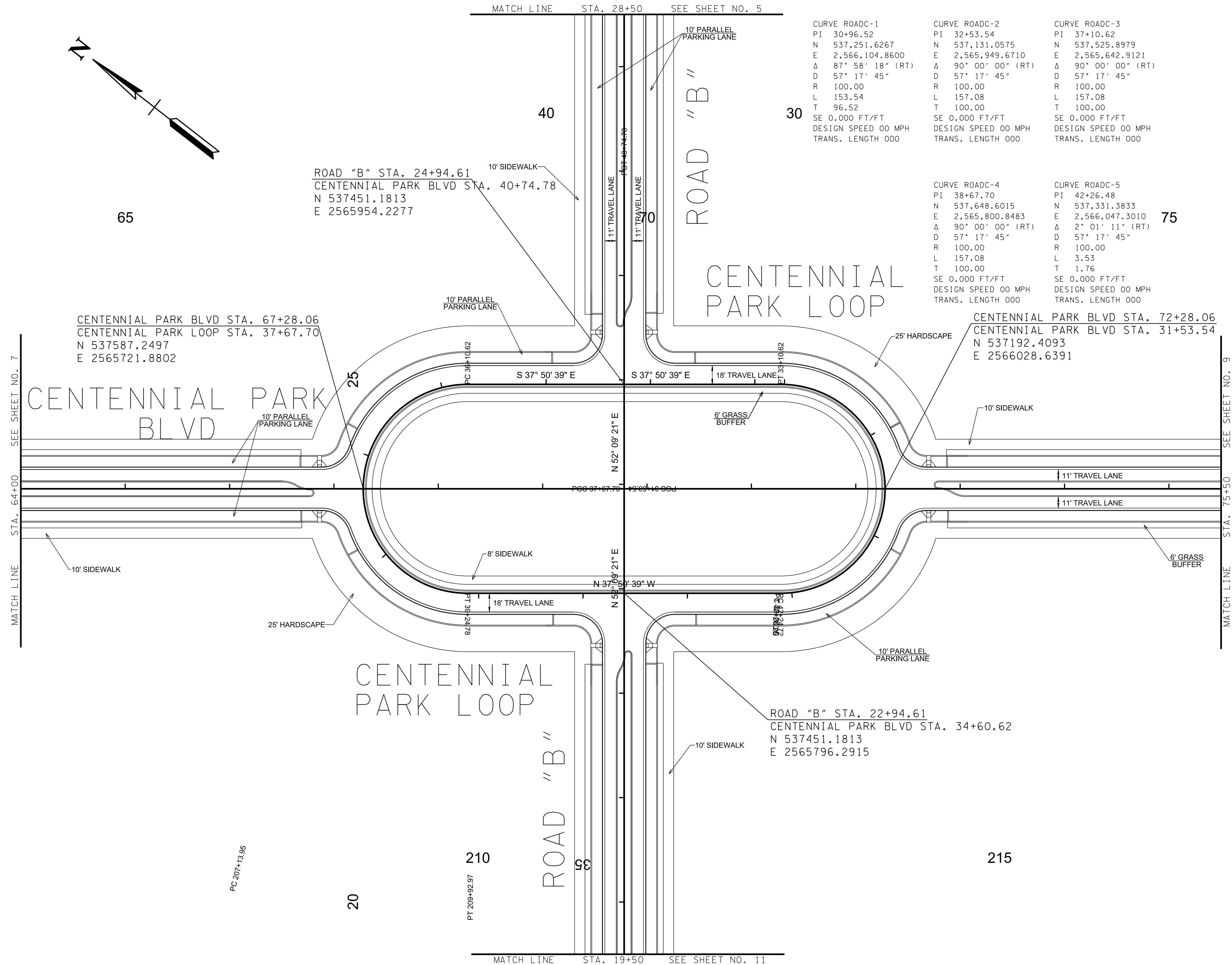
2095 Lakeside Centre Way  
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ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
SPRINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE

REVISION		
No.	Date	Revision

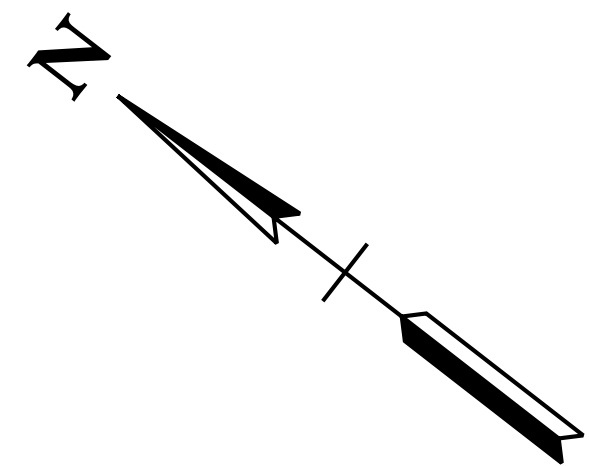
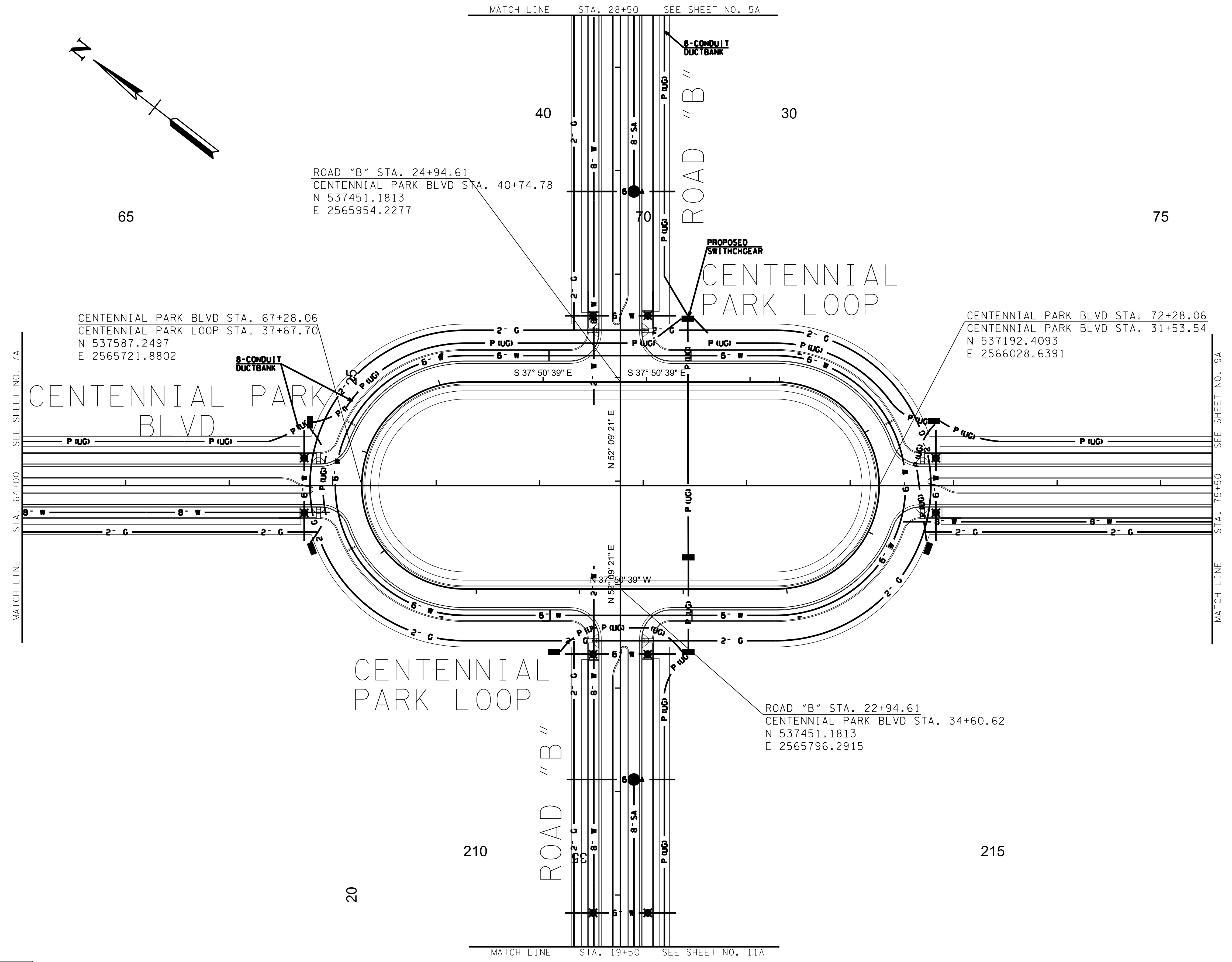
ROADWAY PLAN

8  
SCALE: 1"=50'  
PROJECT: 29166-05  
DATE: 2020



\$DATE\$  
\$TIME\$  
\$DGN\$

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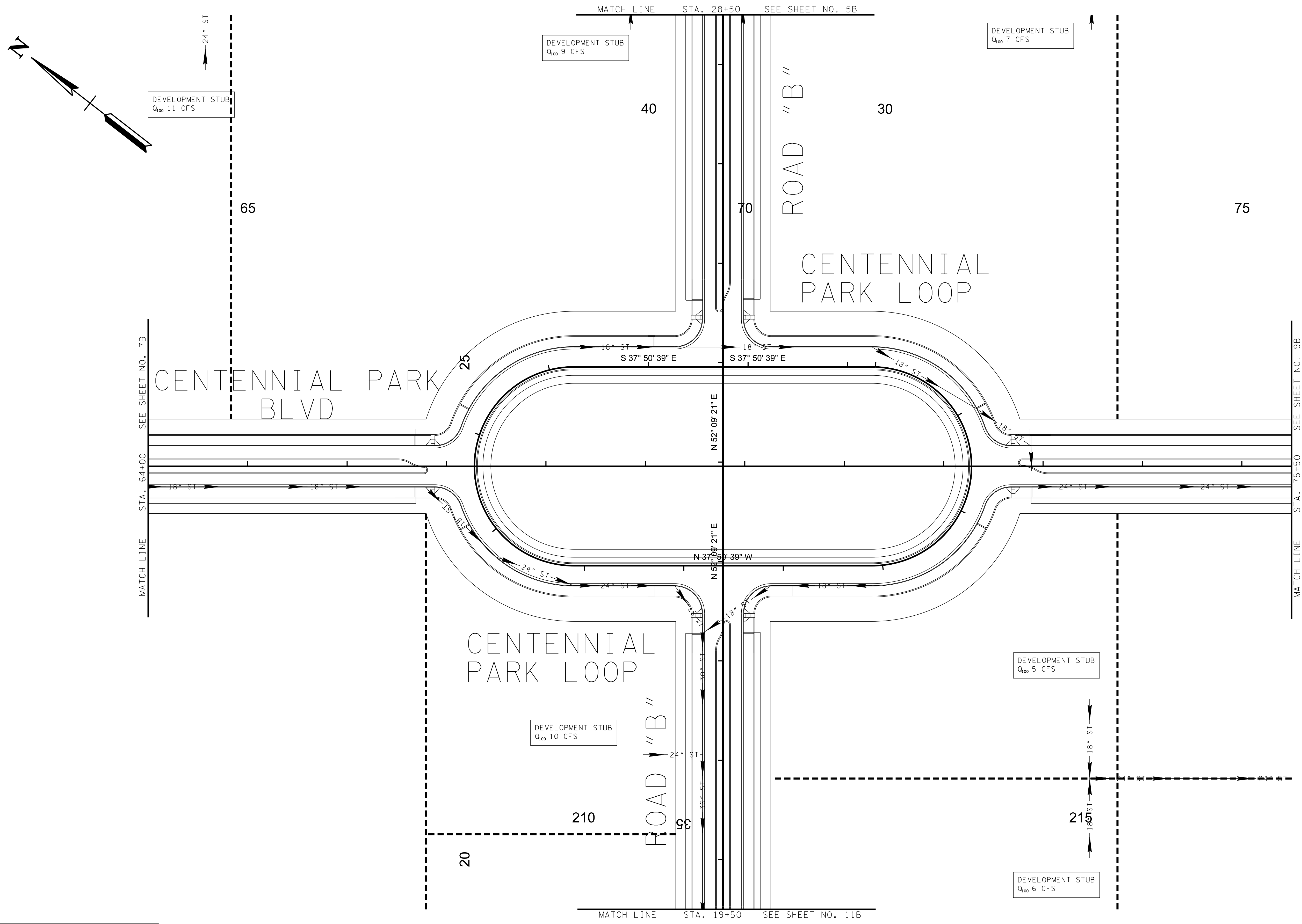


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REVISION		
No.	Date	Revision

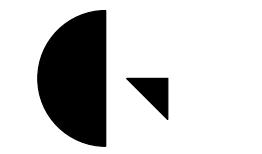
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\$DGN\$

REVISION		
No.	Date	Revision



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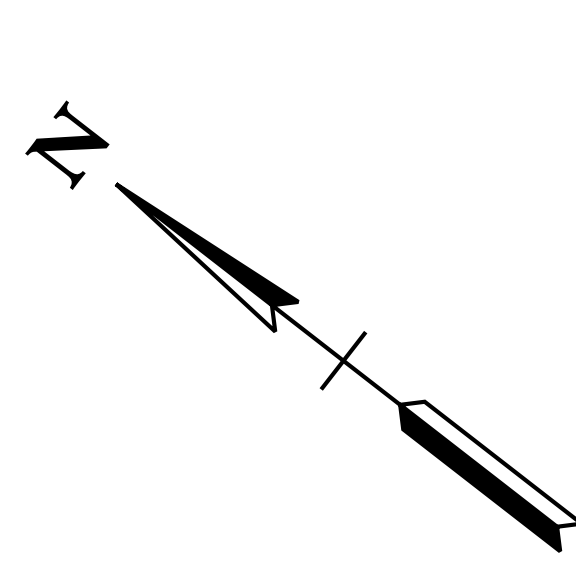
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ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
**SPRINGBROOK FARM**  
BLOUNT COUNTY, TENNESSEE

REVISION

No.	Date	Revision

ROADWAY PLAN



MATCH LINE STA. 97+00 SEE SHEET NO. 6

FARADAY

CITY OF ALCOA  
W.B. 183 PG. 297  
BASSMILL FIELD

ROAD "A" STA. 83+16.51  
N 536332.8828  
E 2566696.4211

FARADAY STA 23+95.71  
CENTENNIAL PARK BLVD STA. 79+58.85  
N 536972.1561  
E 2566936.2987

CURVE FARADAY-2  
PI 89+91.19  
N 536,471.0033  
E 2,566,291.2468  
Δ 8° 24' 04" (RT)  
D 3' 49' 11"  
R 1,500.00  
L 219.94  
T 110.17  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

PT 91+00.96

PC 88+81.02

220  
+35.64  
+08.95  
STA. 88+50  
SEE SHEET NO. 12

95

CENTENNIAL PARK  
BLVD

90

MATCH LINE STA. 75+50 SEE SHEET NO. 8

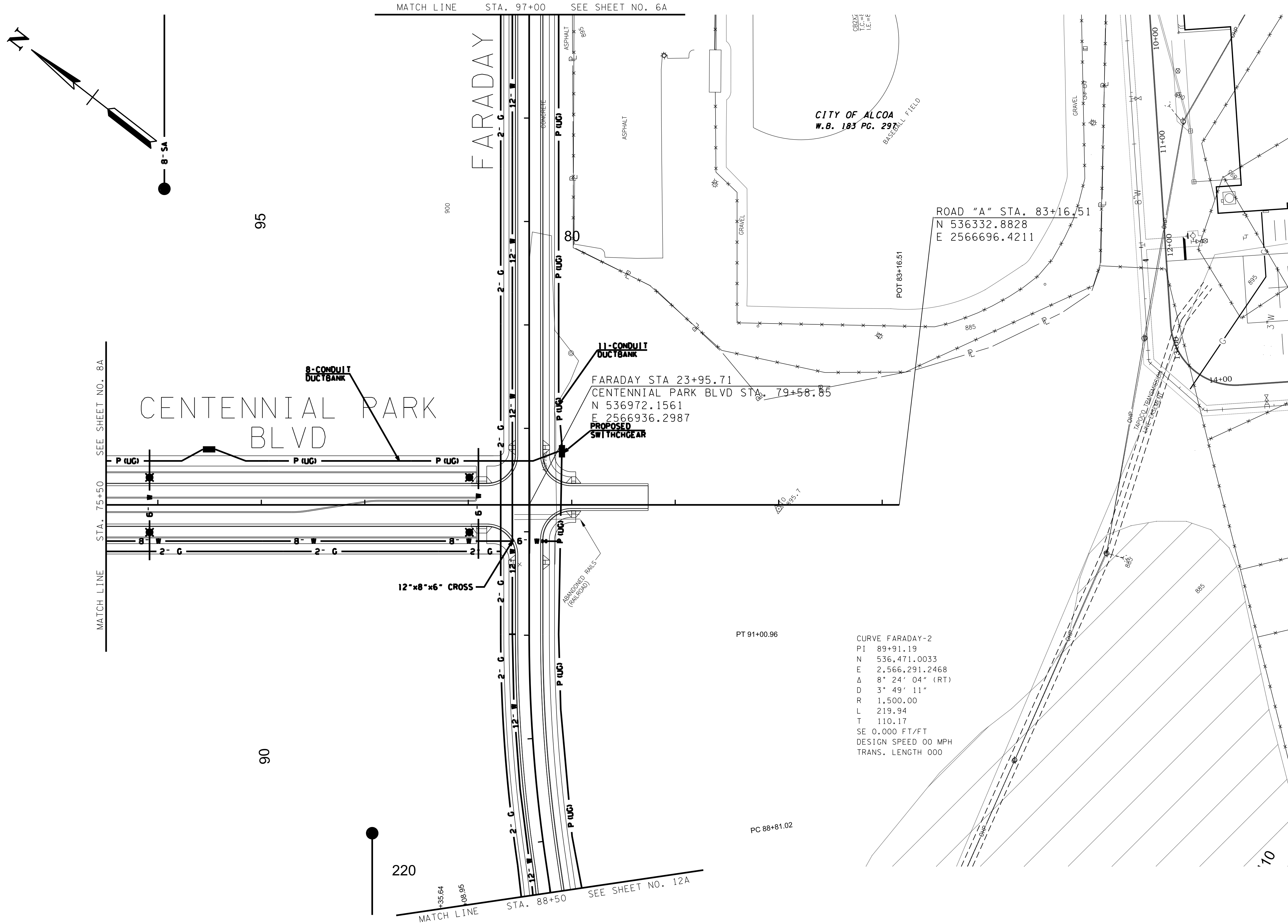
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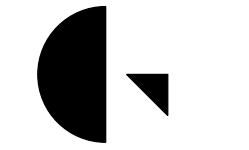
COORDINATE VALUES ARE NAD 83 (1995),  
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REVISION		
No.	Date	Revision

\$DATE\$  
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ROADWAY, DRAINAGE, UTILITY MASTER PLAN  
SPRINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE

REVISION

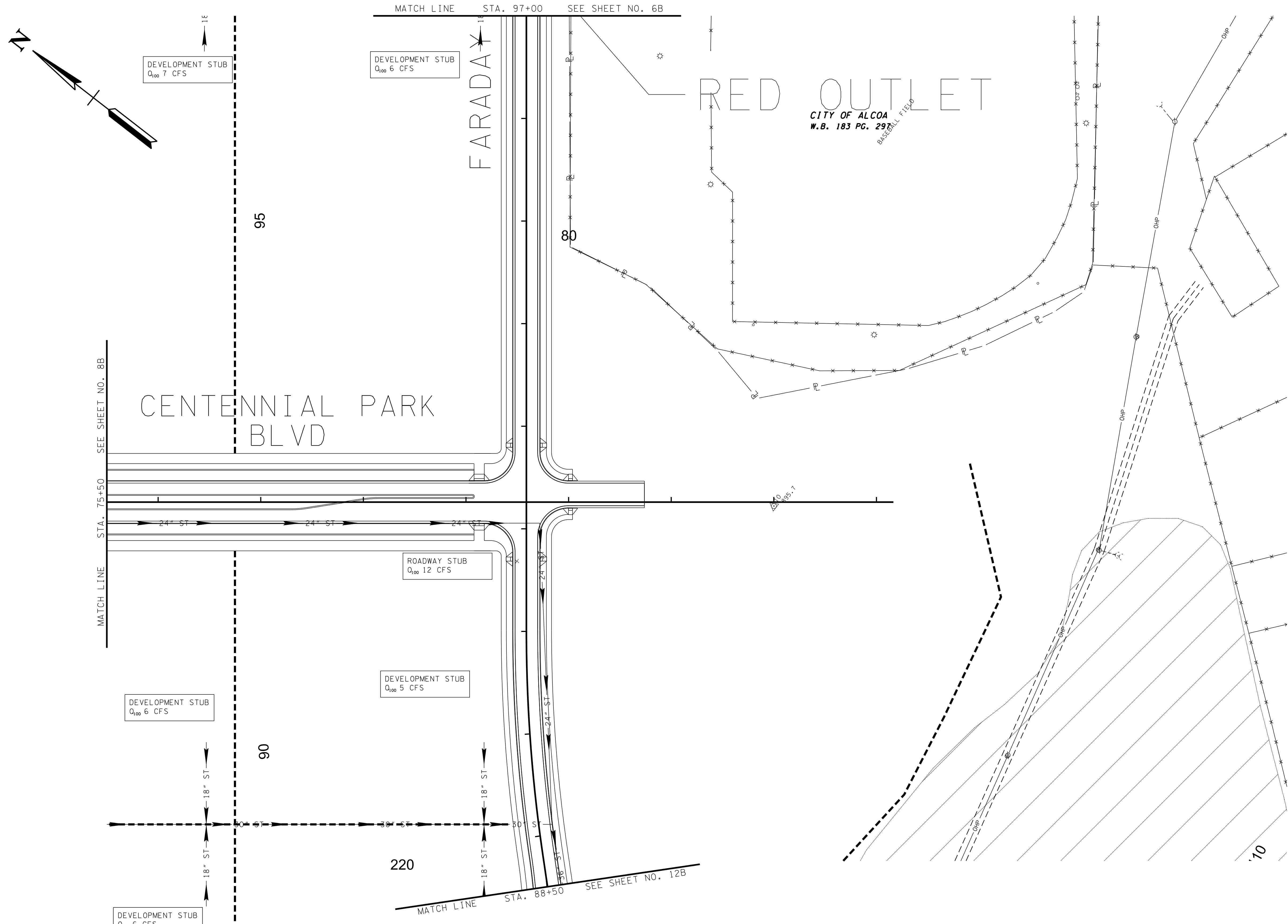
No.	Date	Revision

STORMWATER PLAN

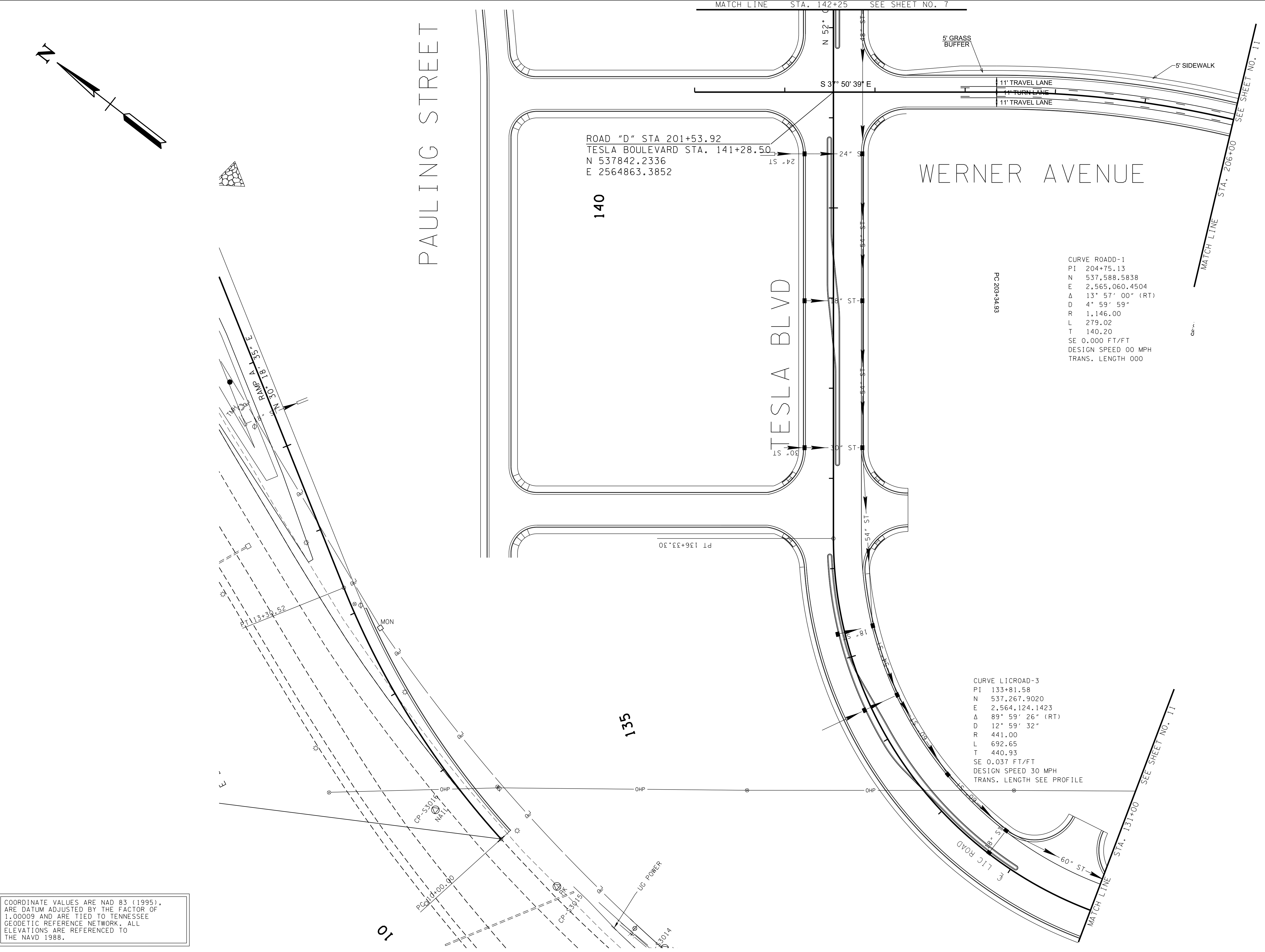
**9B**  
SCALE: 1"=50'  
PROJECT: 20166-05  
DATE: 2020

\$DATE\$  
\$TIME\$  
\$DGN\$

COORDINATE VALUES ARE NAD 83 (1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND ARE TIED TO TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.



REVISION		
No.	Date	Revision

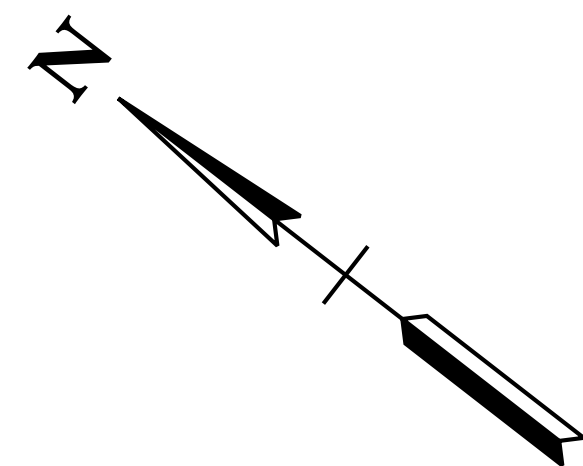


COORDINATE VALUES ARE NAD 83 (1995),  
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GEODETIC REFERENCE NETWORK. ALL  
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THE NAVD 1988.

\$DATE\$  
\$TIME\$  
\$DGN\$

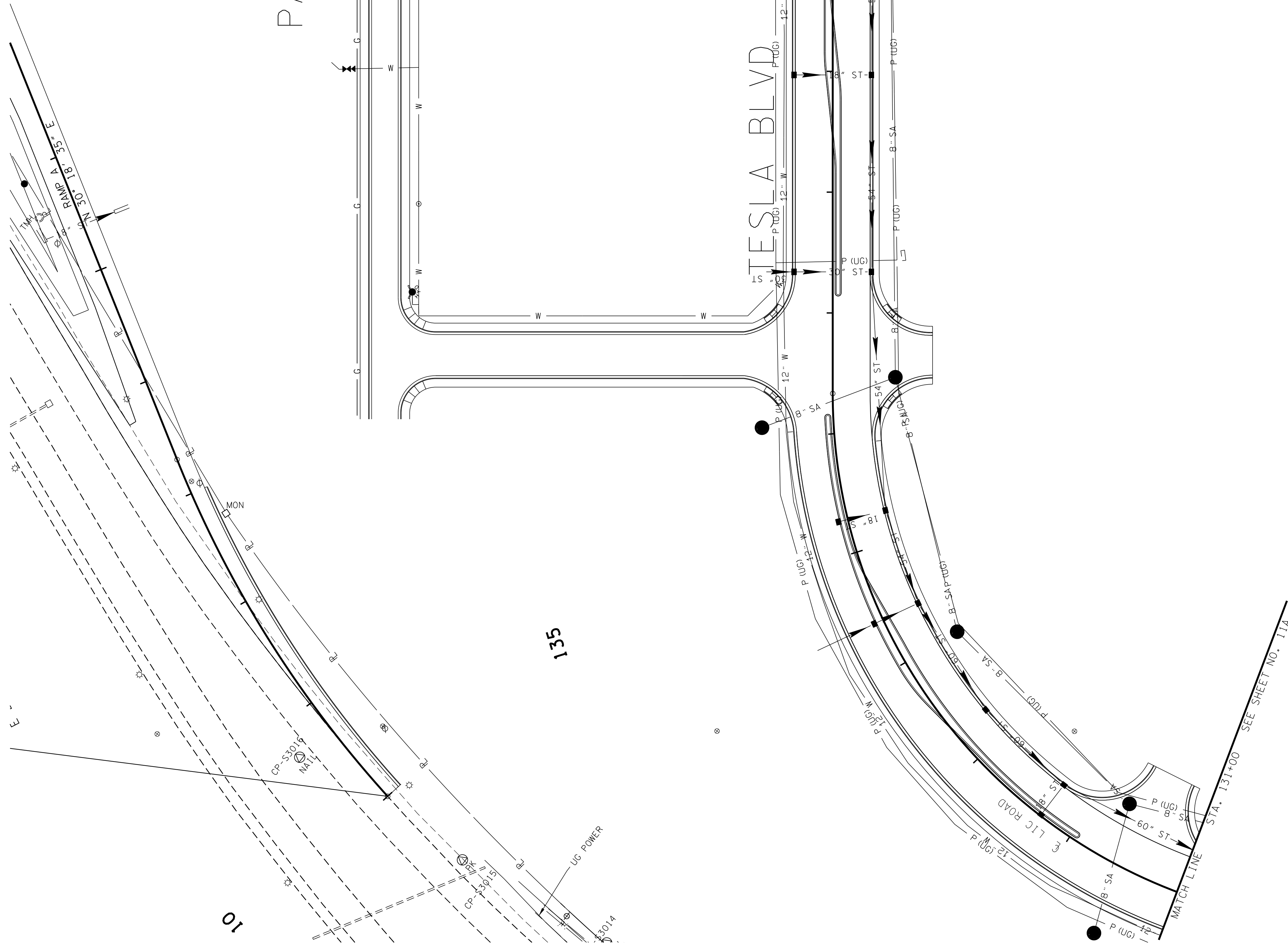
CURVE ROADD-1  
PI 204+75.13  
N 537,588.5838  
E 2,565,060.4504  
Δ 13° 57' 00" (RT)  
D 4' 59' 59"  
R 1,146.00  
L 279.02  
T 140.20  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

CURVE LICROAD-3  
PI 133+81.58  
N 537,267.9020  
E 2,564,124.1423  
Δ 89° 59' 26" (RT)  
D 12° 59' 32"  
R 441.00  
L 692.65  
T 440.93  
SE 0.037 FT/FT  
DESIGN SPEED 30 MPH  
TRANS. LENGTH SEE PROFILE



COORDINATE VALUES ARE NAD 83 (1995),  
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1.00009 AND ARE TIED TO TENNESSEE  
GEODEIC REFERENCE NETWORK. ALL  
ELEVATIONS ARE REFERENCED TO  
THE NAVD 1988.

\$DATE\$  
\$TIME\$  
\$DGN\$



ROAD "D" STA. 201+53.92  
TESLA BOULEVARD STA. 141+28.50  
N 537842.2336  
E 2564863.3852

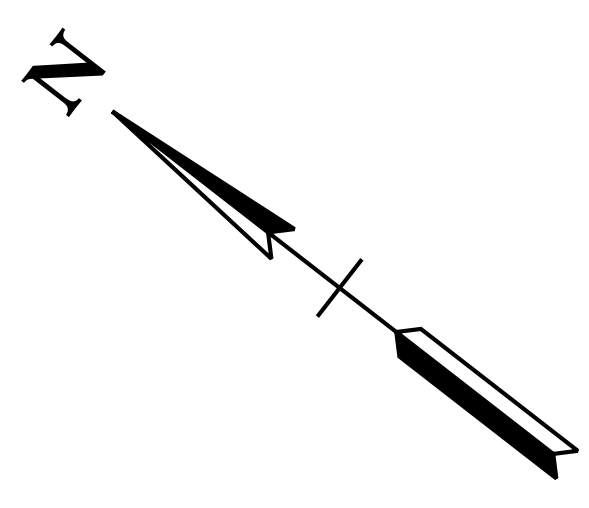
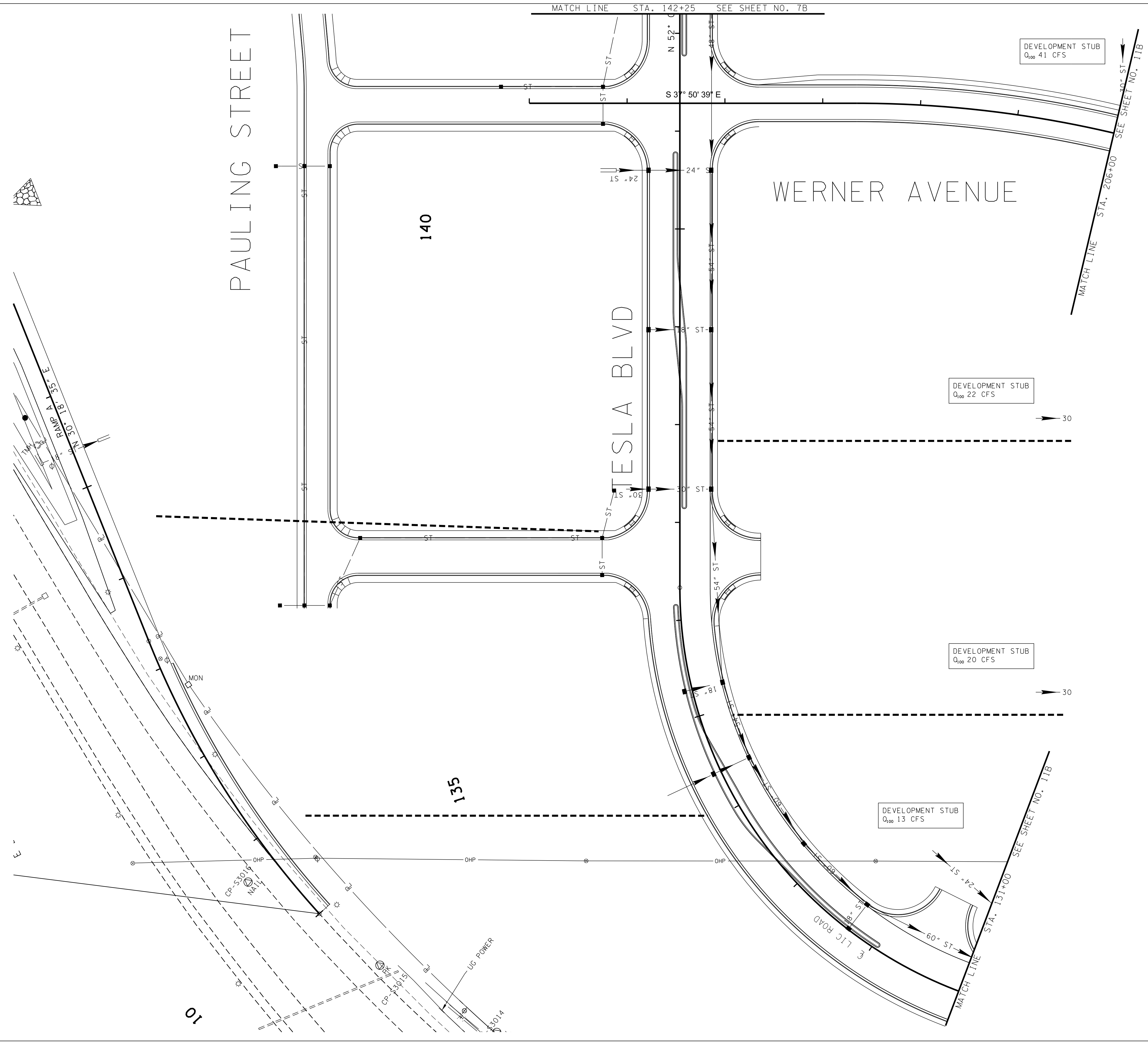
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135

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REVISION		
No.	Date	Revision

REVISION		
No.	Date	Revision

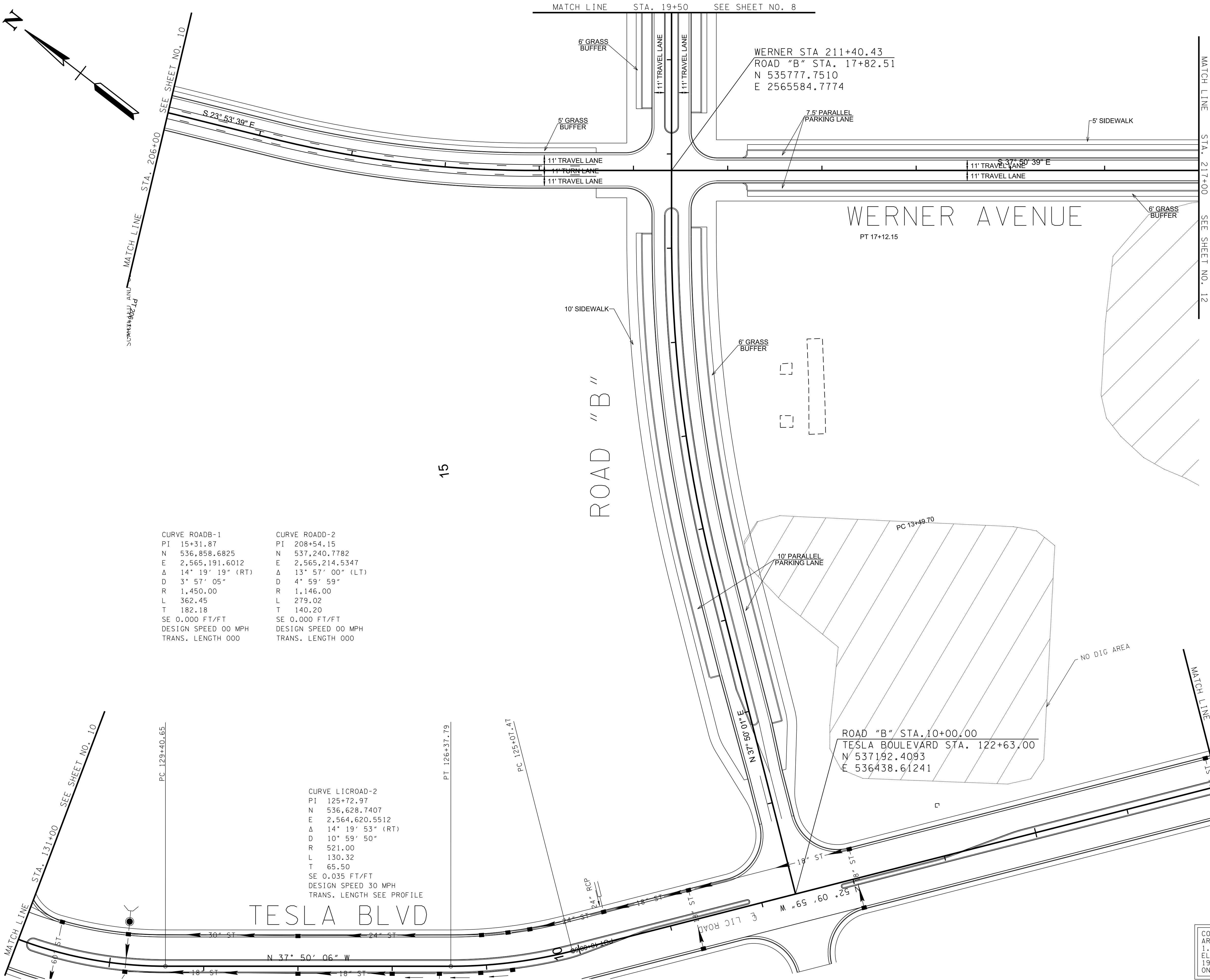


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\$DATE\$  
\$TIME\$  
\$DGN\$

REVISION		
No.	Date	Revision

ROADWAY PLAN



CURVE ROADB-1 PI 15+31.87 N 536,858.6825 E 2,565,191.6012 Δ 14° 19' 19" (RT) D 3° 57' 05" R 1,450.00 L 362.45 T 182.18 SE 0.000 FT/FT DESIGN SPEED 00 MPH TRANS. LENGTH 000	CURVE ROADD-2 PI 208+54.15 N 537,240.7782 E 2,565,214.5347 Δ 13° 57' 00" (LT) D 4° 59' 59" R 1,146.00 L 279.02 T 140.20 SE 0.000 FT/FT DESIGN SPEED 00 MPH TRANS. LENGTH 000
--	---

CURVE LICROAD-2 PI 125+72.97 N 536,628.7407 E 2,564,620.5512 Δ 14° 19' 53" (RT) D 10° 59' 50" R 521.00 L 130.32 T 65.50 SE 0.035 FT/FT DESIGN SPEED 30 MPH TRANS. LENGTH SEE PROFILE
---

WERNER STA 211+40.43  
ROAD "B" STA. 17+82.51  
N 535777.7510  
E 2565584.7774

WERNER AVENUE  
PT 17+12.15

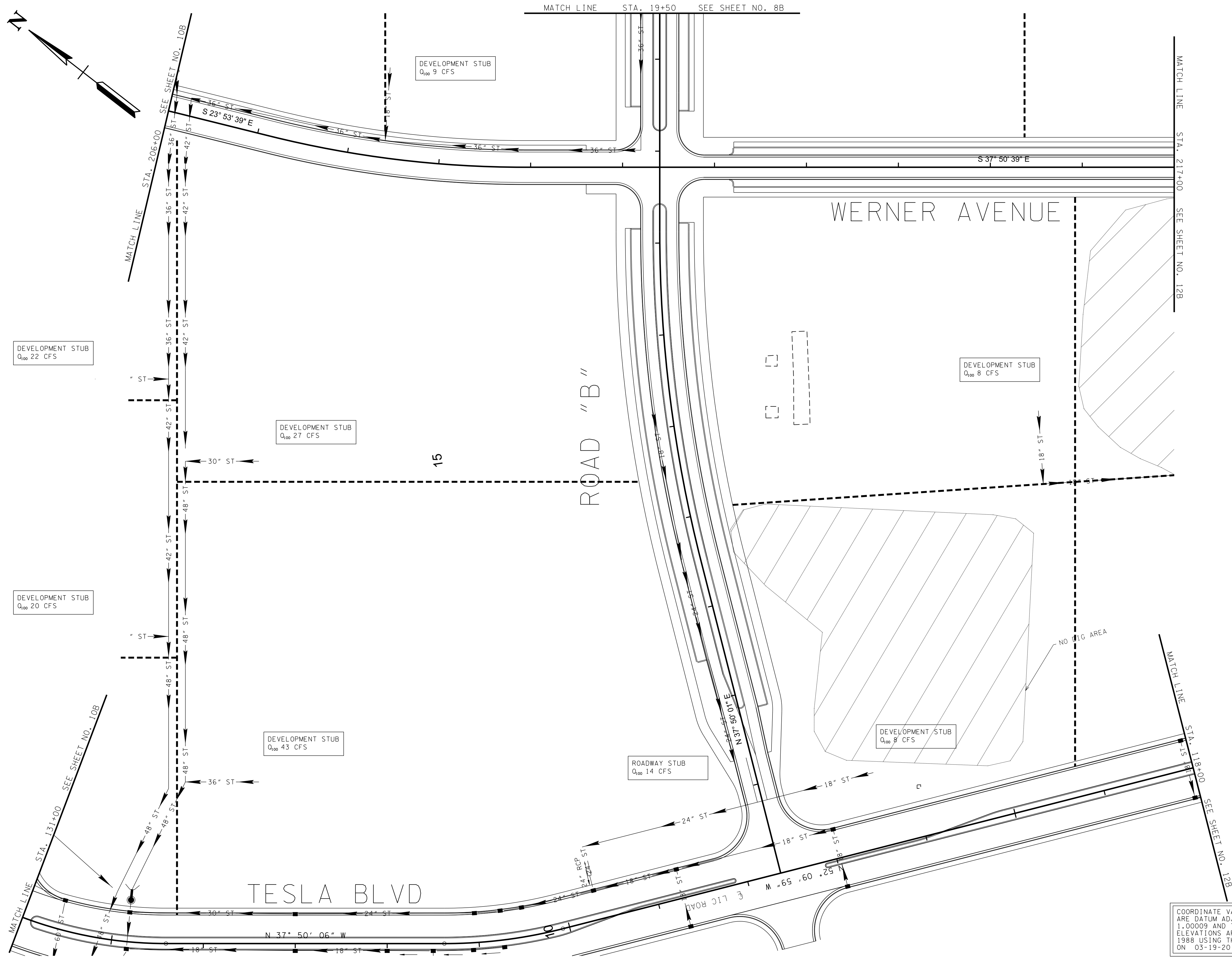
ROAD "B" STA. 10+00.00  
TESLA BOULEVARD STA. 122+63.00  
N 537192.4093  
E 536438.61241

COORDINATE VALUES ARE NAD 83 (CORS96),  
ARE DATUM ADJUSTED BY THE FACTOR OF  
1.0009 AND TIED TO TGRN. ALL  
ELEVATIONS ARE REFERENCED TO THE NAVD  
1988 USING THE GEOID 12B MODEL, OBTAINED  
ON 03-19-2019.

\$DATE\$  
\$TIME\$  
\$DGN\$



REVISION		
No.	Date	Revision

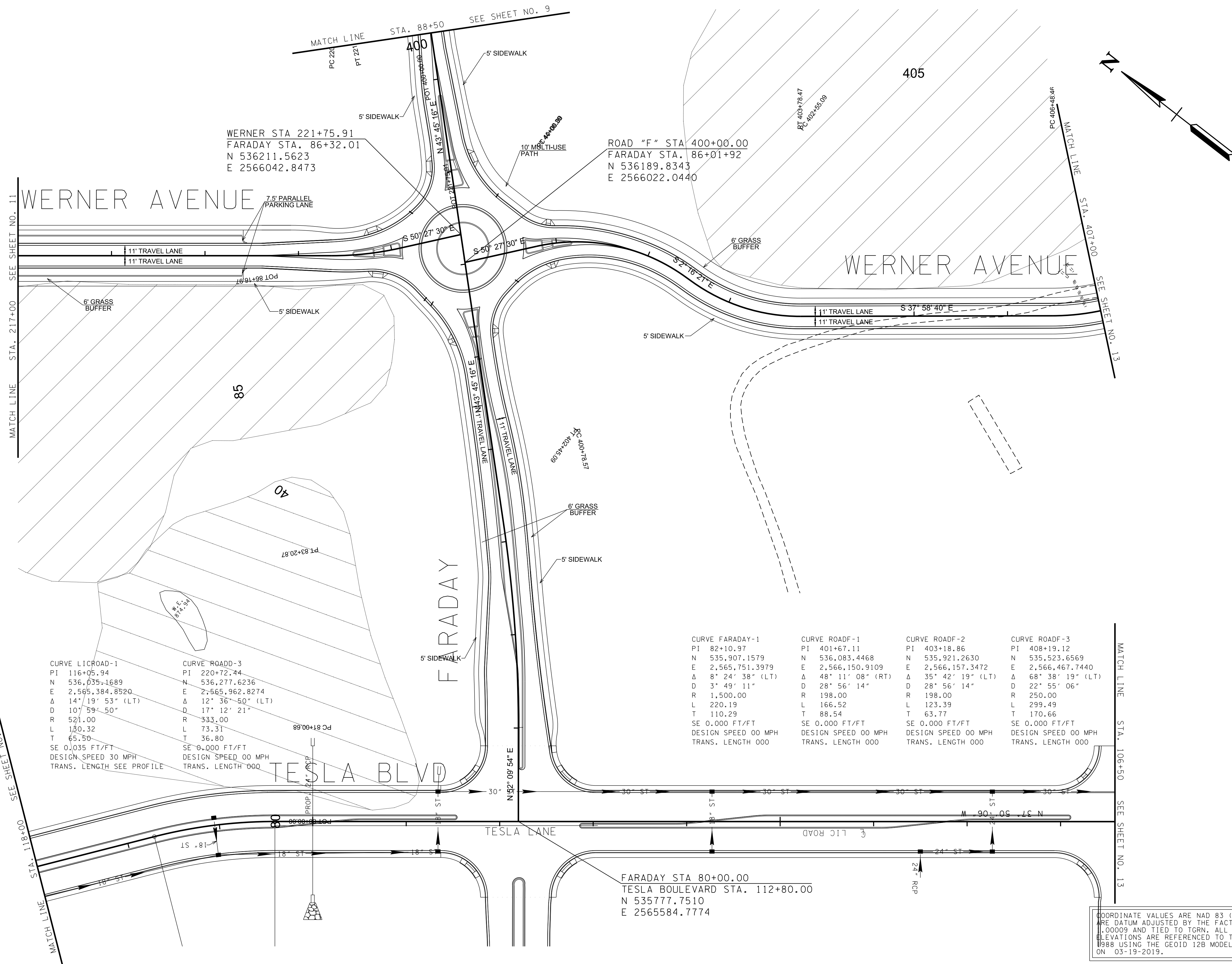


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\$DGN\$

REVISION		
No.	Date	Revision

ROADWAY PLAN



CURVE LICROAD-1  
PI 116+05.94  
N 536,035.1689  
E 2,565,384.8520  
Δ 14° 19' 53" (LT)  
D 107' 59' 50"  
R 521.00  
L 130.32  
T 65.50  
SE 0.035 FT/FT  
DESIGN SPEED 30 MPH  
TRANS. LENGTH SEE PROFILE

CURVE ROAD-3  
PI 220+72.44  
N 536,277.6236  
E 2,565,962.8274  
Δ 12° 36' 50" (LT)  
D 17' 12' 21"  
R 333.00  
L 73.31  
T 36.80  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

CURVE FARADAY-1  
PI 82+10.97  
N 535,907.1579  
E 2,565,751.3979  
Δ 8° 24' 38" (LT)  
D 3' 49' 11"  
R 1,500.00  
L 220.19  
T 110.29  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

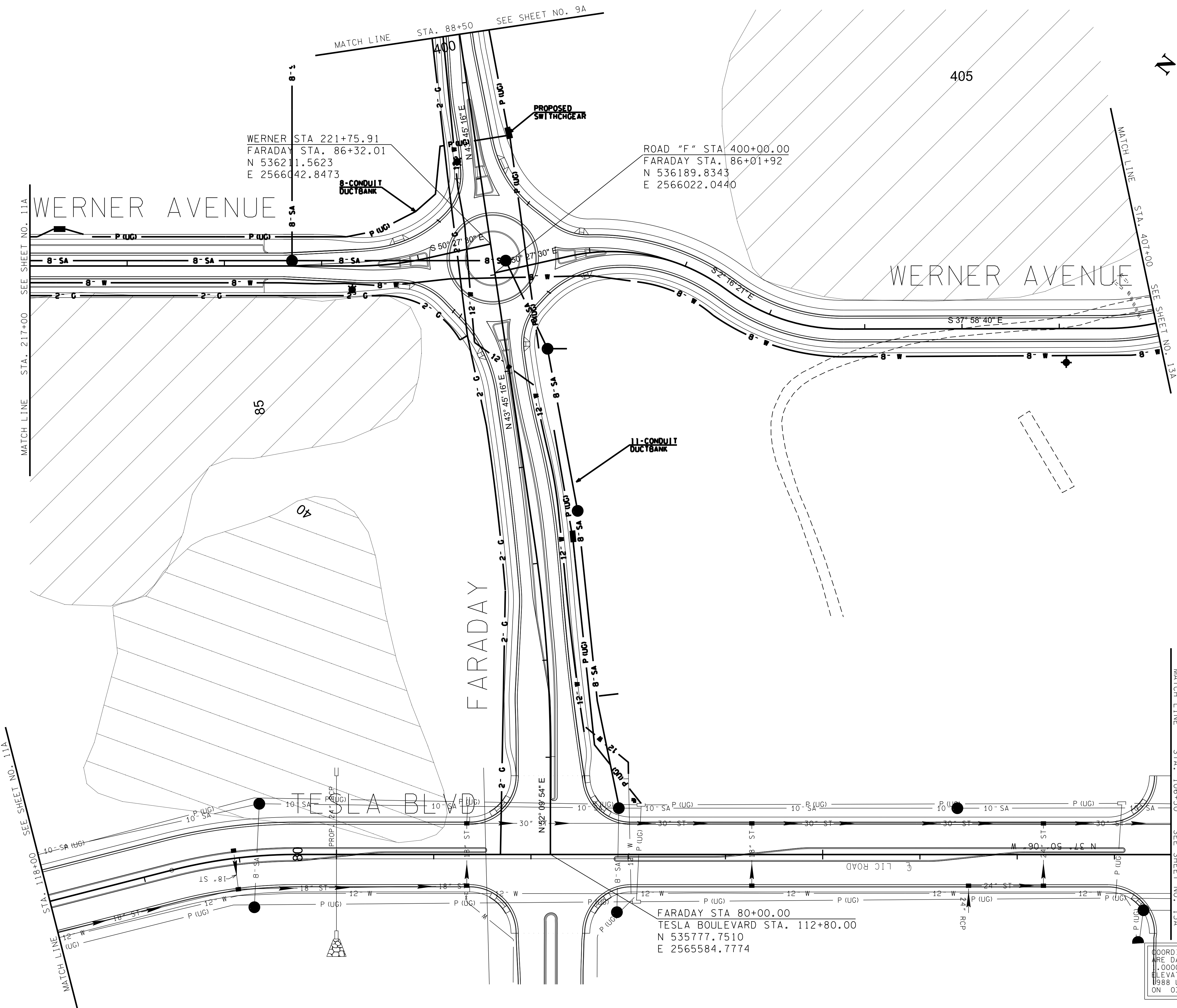
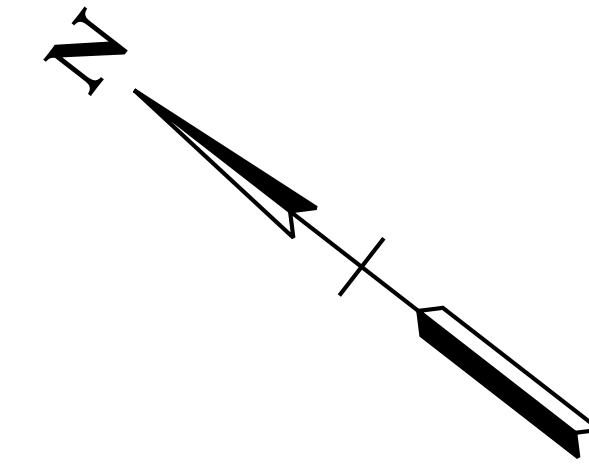
CURVE ROAD-1  
PI 401+67.11  
N 536,083.4468  
E 2,566,150.9109  
Δ 48° 11' 08" (RT)  
D 28' 56' 14"  
R 198.00  
L 166.52  
T 88.54  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

CURVE ROAD-2  
PI 403+18.86  
N 535,921.2630  
E 2,566,157.3472  
Δ 35° 42' 19" (LT)  
D 28' 56' 14"  
R 198.00  
L 123.39  
T 63.77  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

CURVE ROAD-3  
PI 408+19.12  
N 535,523.6569  
E 2,566,467.7440  
Δ 68° 38' 19" (LT)  
D 22' 55' 06"  
R 250.00  
L 299.49  
T 170.66  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

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1988 USING THE GEOID 12B MODEL, OBTAINED  
ON 03-19-2019.

\$DATE\$  
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REVISION		
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ON 03-19-2019.

\$DATE\$  
\$TIME\$  
\$DGN\$

REVISION

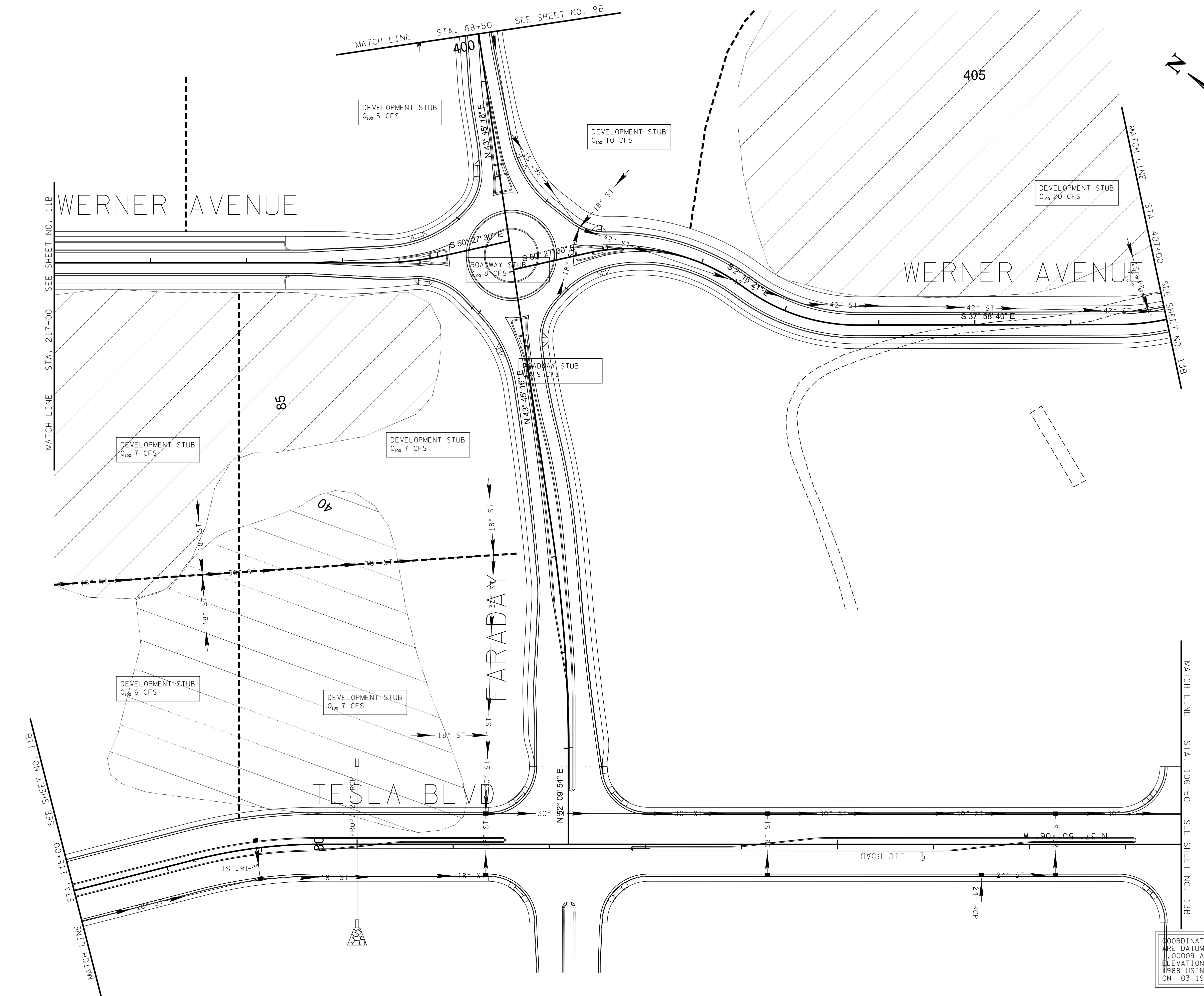
No.	Date	Revision

STORMWATER PLAN

12B

SCALE: 1"=50'  
PROJECT: 20166-05  
DATE: 2020

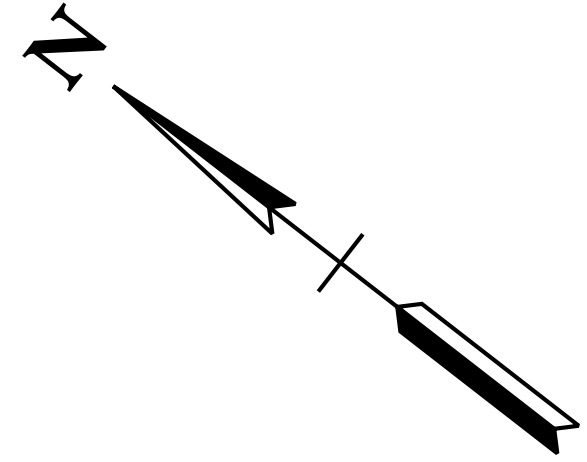
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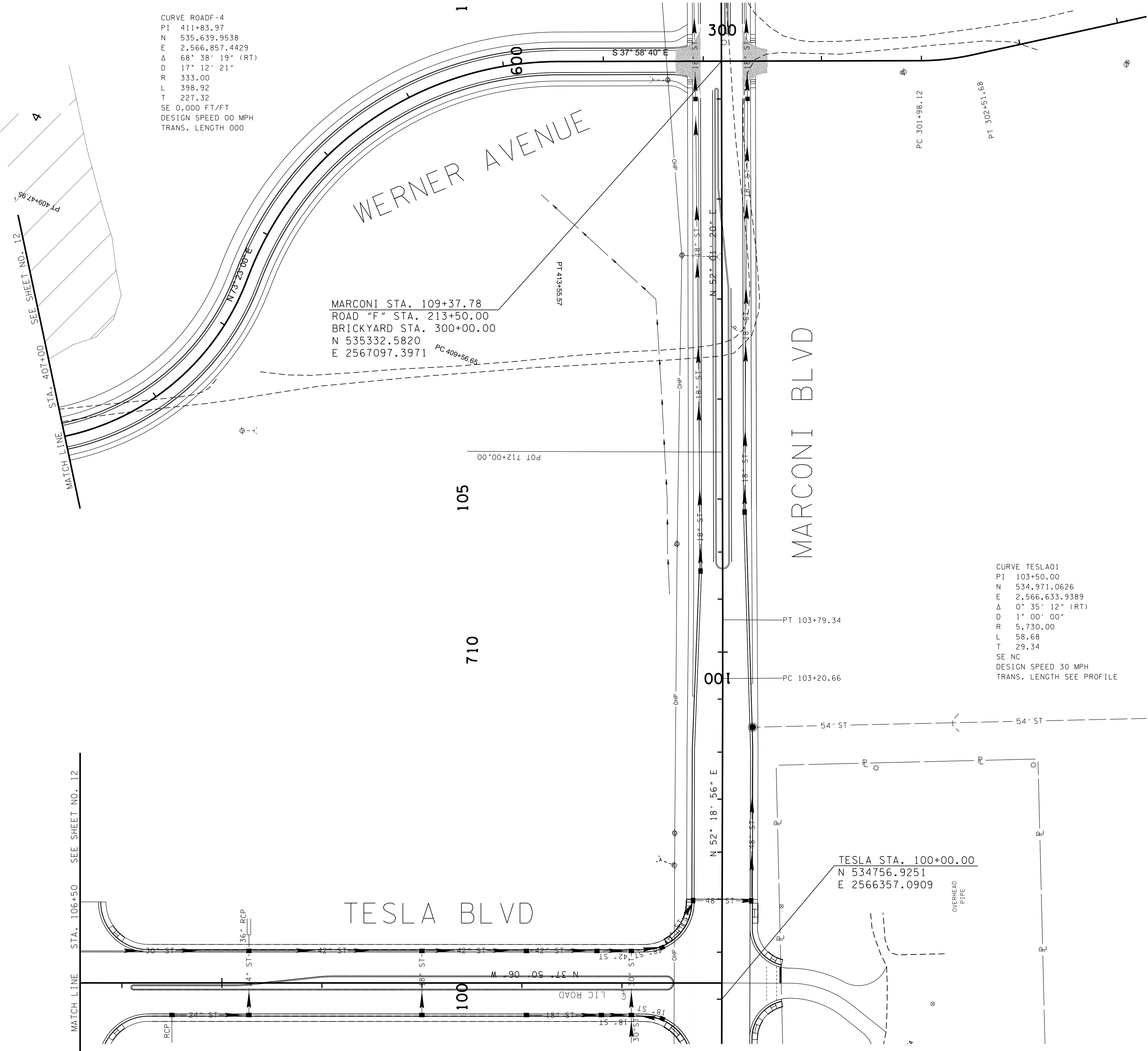


CURVE ROADF-4  
PI 411+83.97  
N 535,639.9538  
E 2,566,857.4429  
Δ 68° 38' 19" (RT)  
D 17' 12' 21"  
R 333.00  
L 398.92  
T 227.32  
SE 0.000 FT/FT  
DESIGN SPEED 00 MPH  
TRANS. LENGTH 000

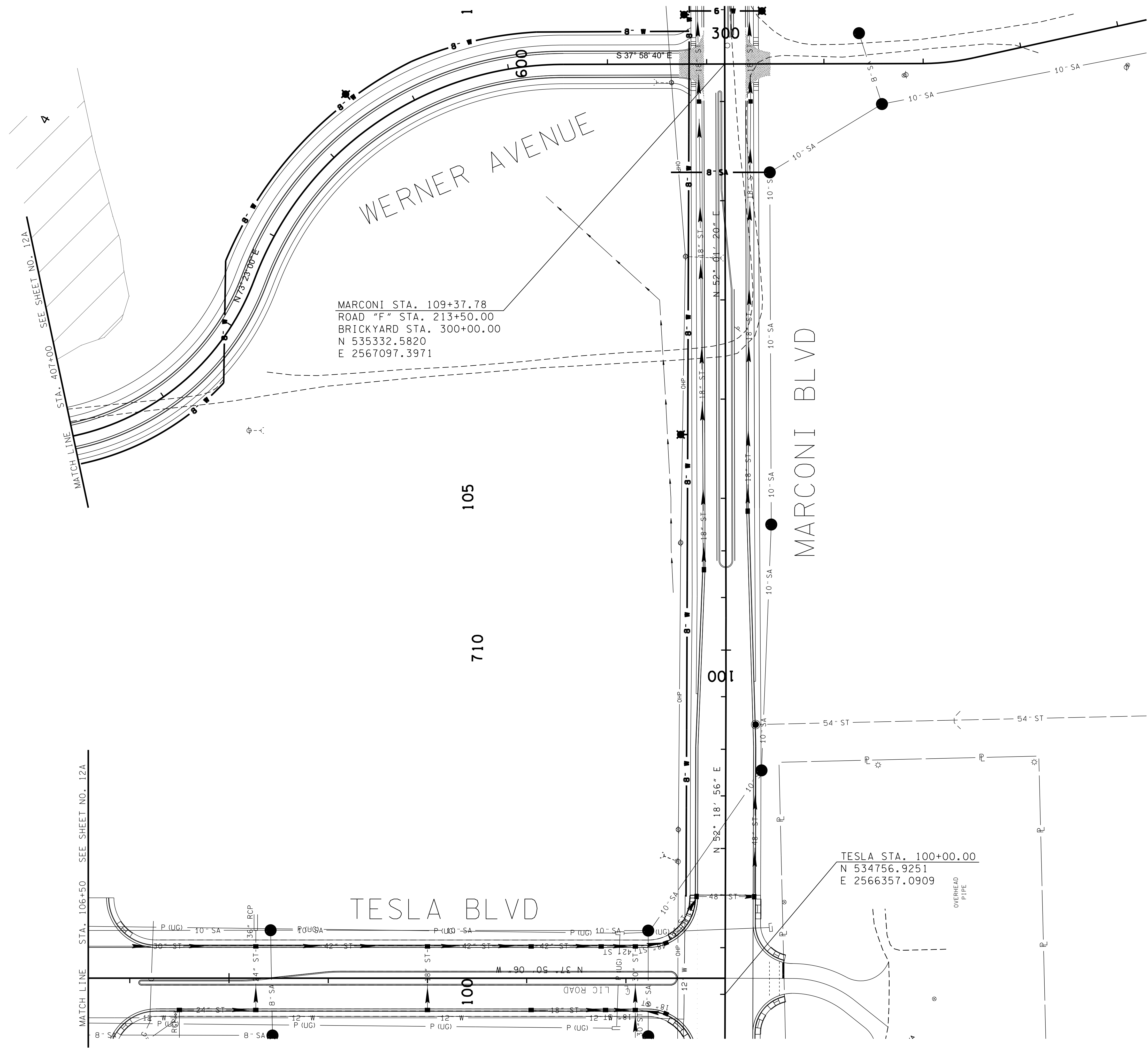
MARCONI STA. 109+37.78  
ROAD "F" STA. 213+50.00  
BRICKYARD STA. 300+00.00  
N 535332.5820  
E 2567097.3971

CURVE TESLA01  
PI 103+50.00  
N 534,971.0626  
E 2,566,633.9389  
Δ 0° 35' 12" (RT)  
D 1' 00' 00"  
R 5,730.00  
L 58.68  
T 29.34  
SE NC  
DESIGN SPEED 30 MPH  
TRANS. LENGTH SEE PROFILE

TESLA STA. 100+00.00  
N 534756.9251  
E 2566357.0909



\$DATE\$  
\$TIME\$  
\$DGN\$



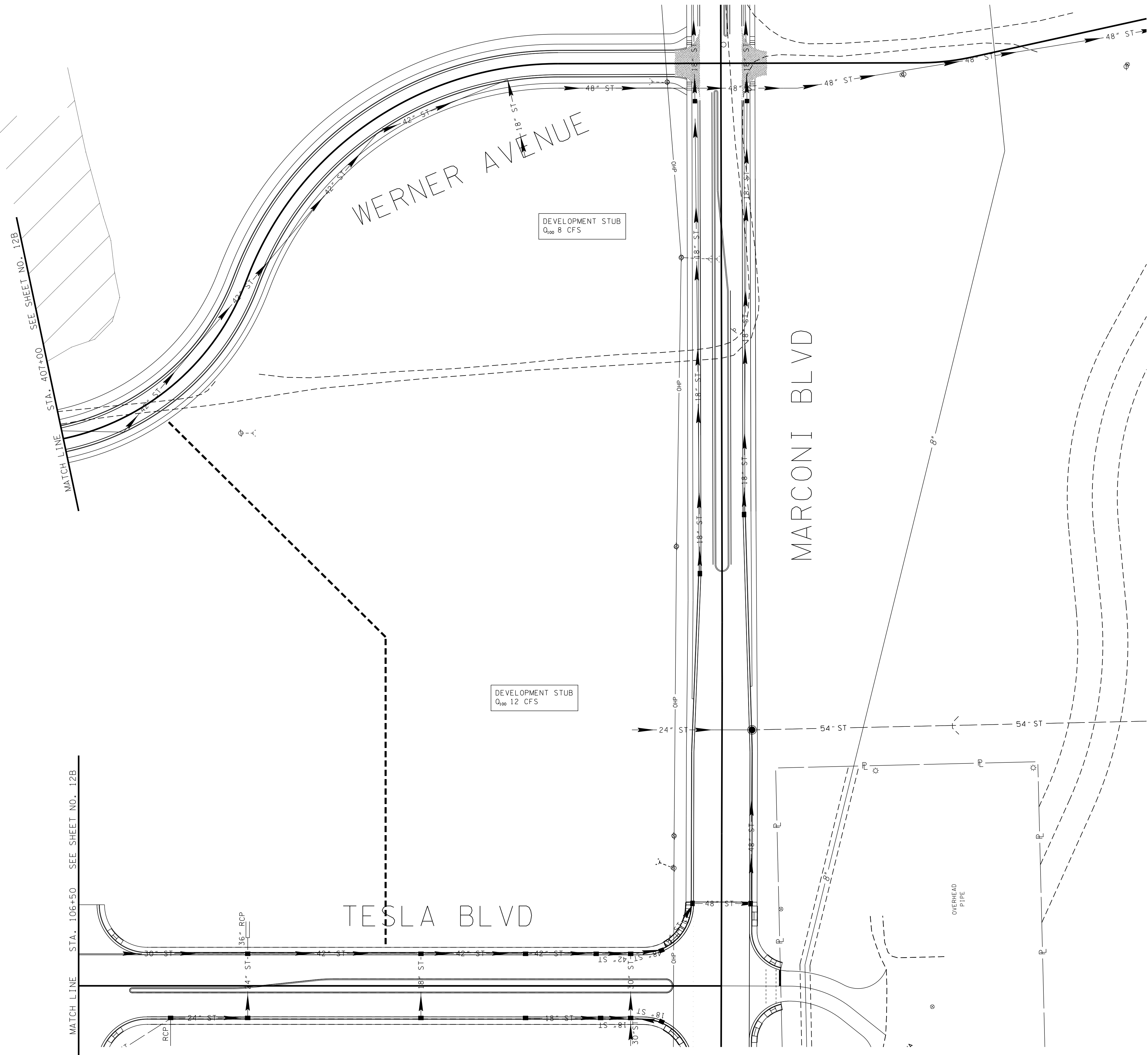
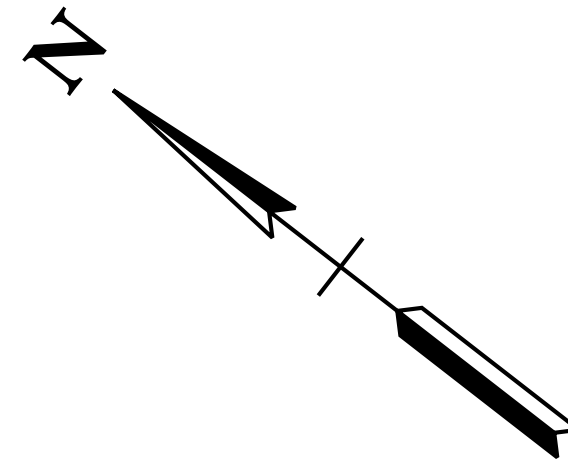
MARCONI STA. 109+37.78  
ROAD "F" STA. 213+50.00  
BRICKYARD STA. 300+00.00  
N 535332.5820  
E 2567097.3971

TESLA STA. 100+00.00  
N 534756.9251  
E 2566357.0909

COORDINATE VALUES ARE NAD 83 (CORS96),  
ARE DATUM ADJUSTED BY THE FACTOR OF  
1.00009 AND TIED TO TGRN. ALL  
ELEVATIONS ARE REFERENCED TO THE NAVD  
1988 USING THE GEOID 12B MODEL, OBTAINED  
ON 03-19-2019.

REVISION		
No.	Date	Revision

UTILITIES PLAN



MATCH LINE STA. 106+50 SEE SHEET NO. 12B

DEVELOPMENT STUB  
Q<sub>100</sub> 8 CFS

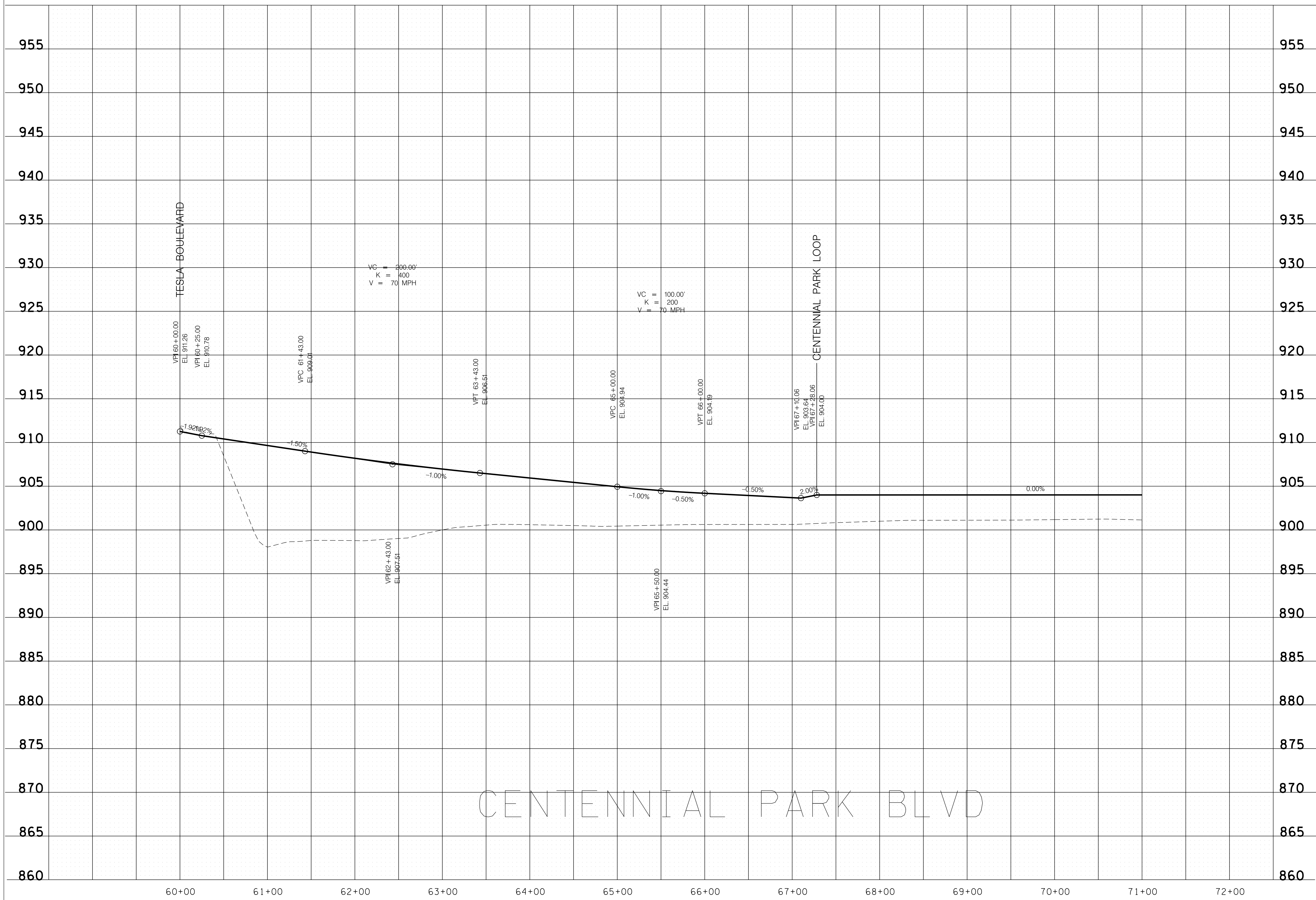
DEVELOPMENT STUB  
Q<sub>100</sub> 12 CFS

COORDINATE VALUES ARE NAD 83 (CORS96),  
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1.00009 AND TIED TO TGRN. ALL  
ELEVATIONS ARE REFERENCED TO THE NAVD  
1988 USING THE GEOID 12B MODEL, OBTAINED  
ON 03-19-2019.

REVISION		
No.	Date	Revision

STORMWATER PLAN

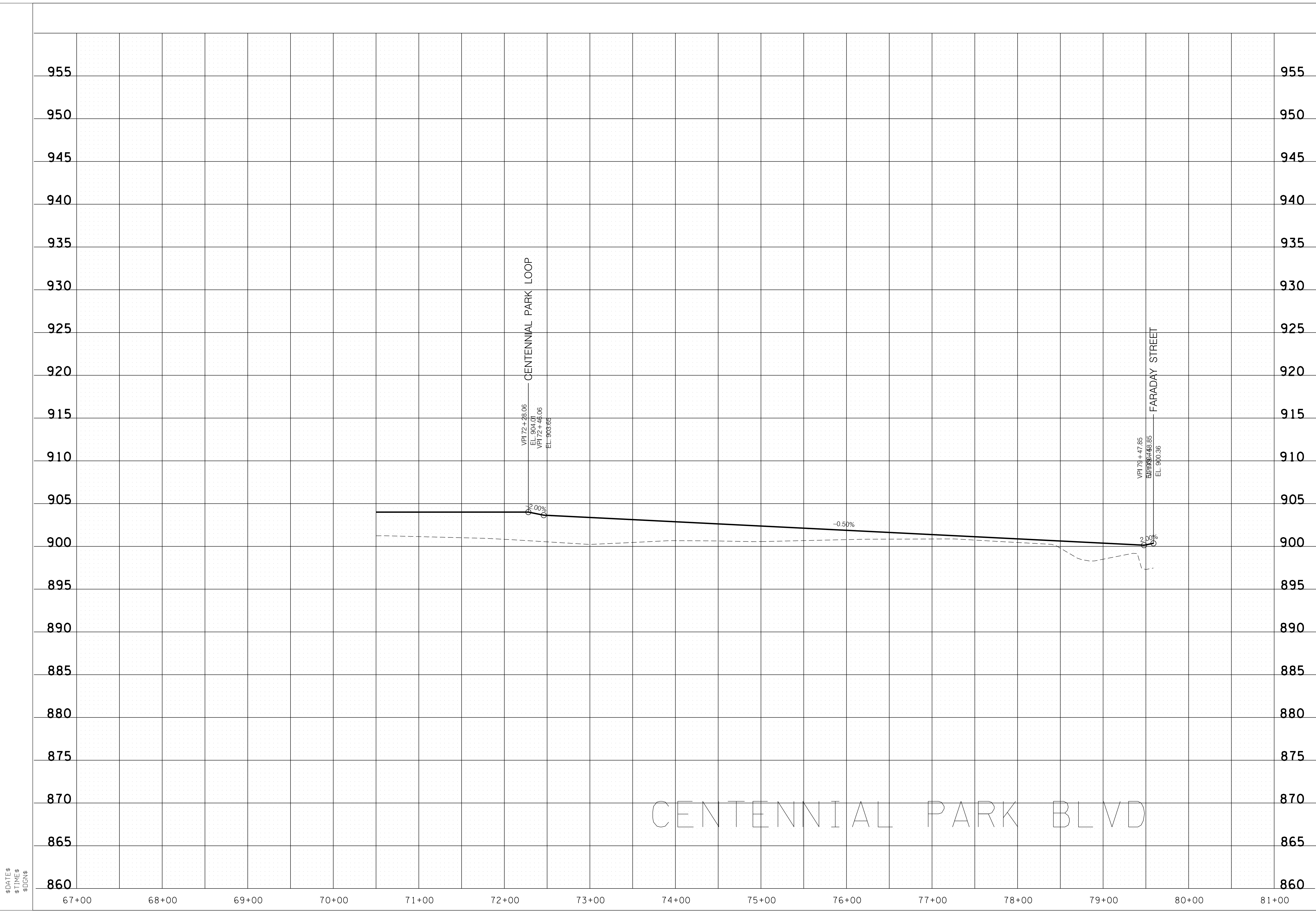
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REVISION		
No.	Date	Revision

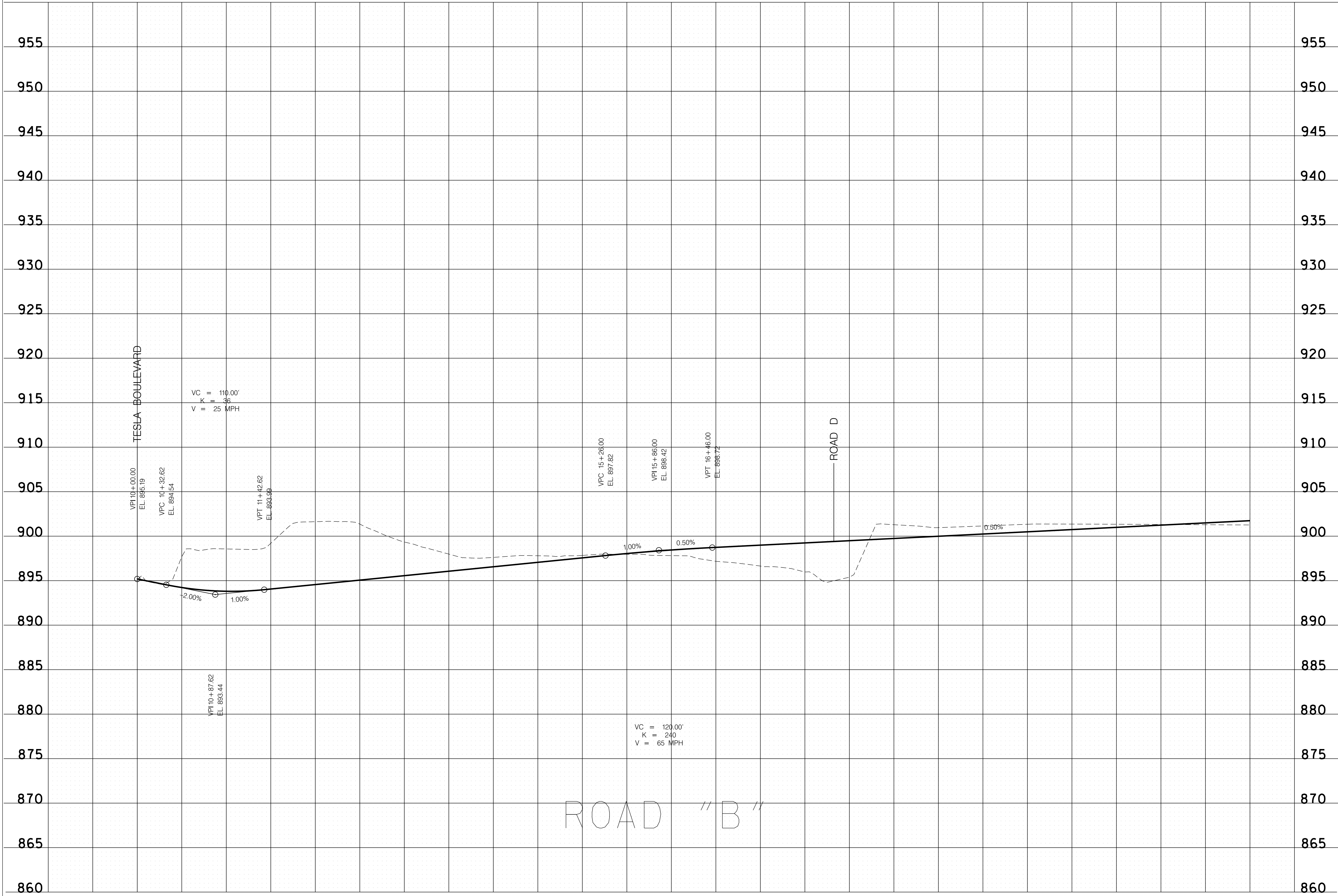
PROPOSED PROFILE



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REVISION		
No.	Date	Revision

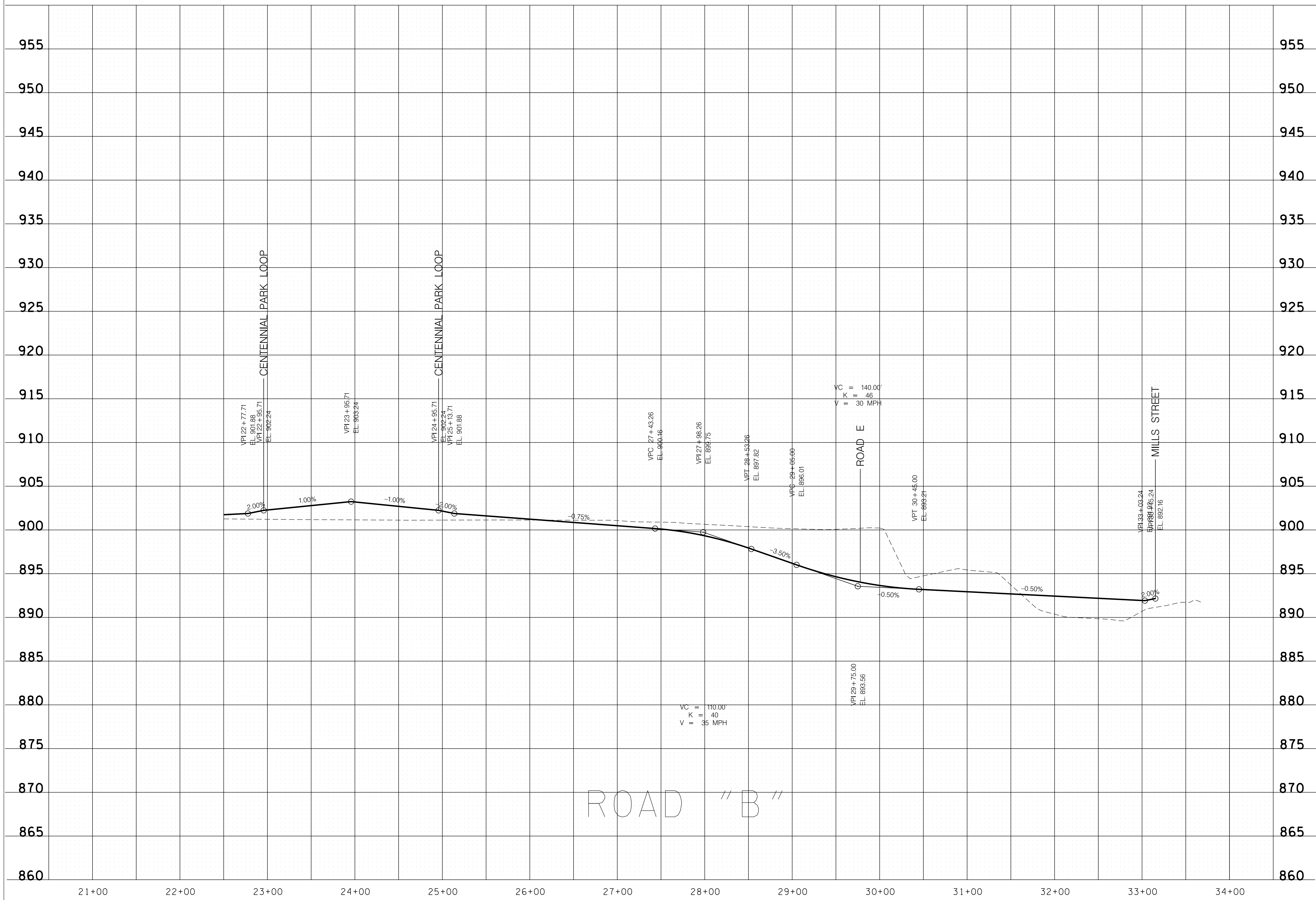
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REVISION		
No.	Date	Revision

PROPOSED PROFILE

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REVISION		
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PROPOSED PROFILE

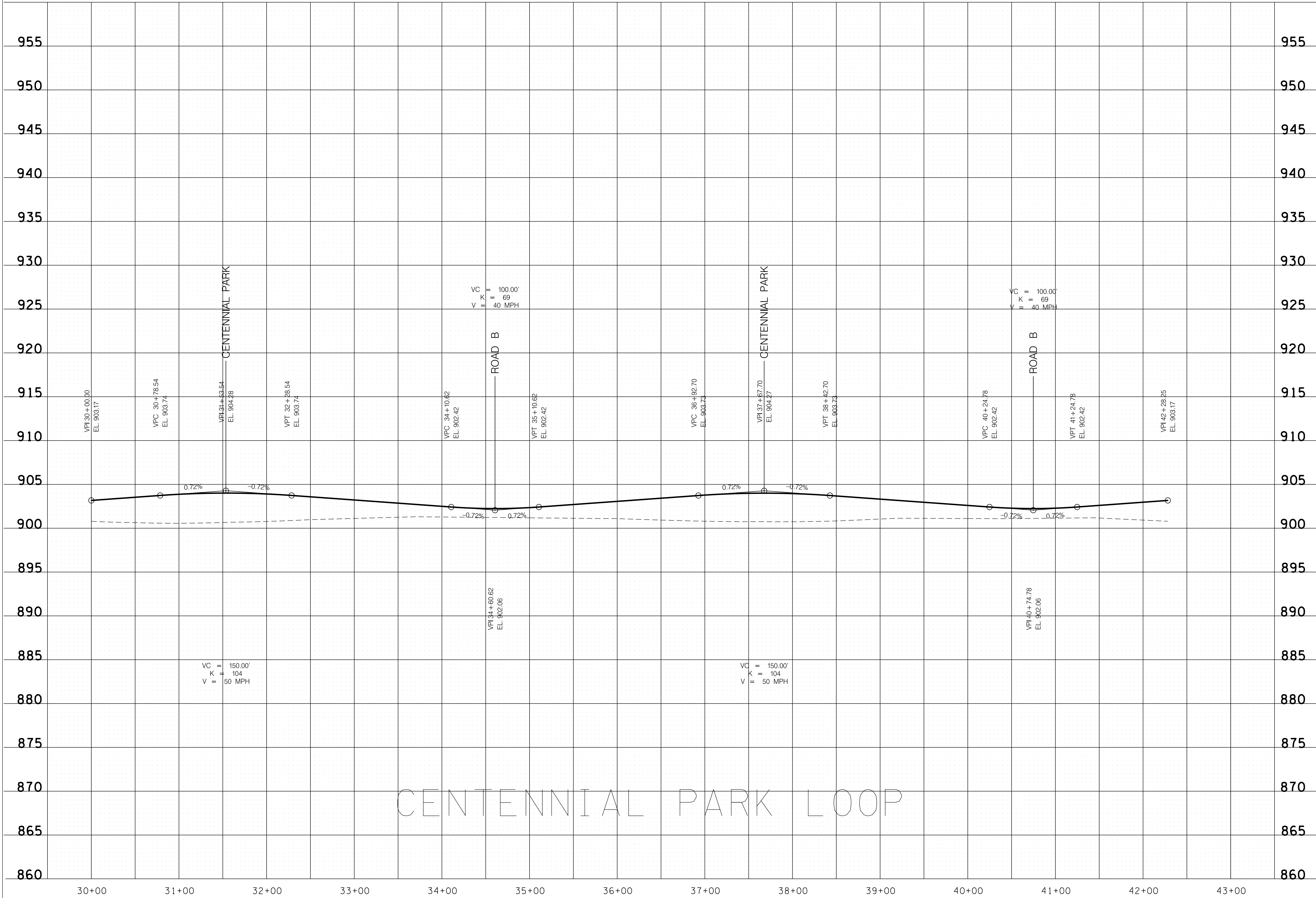


**Gresham Smith**

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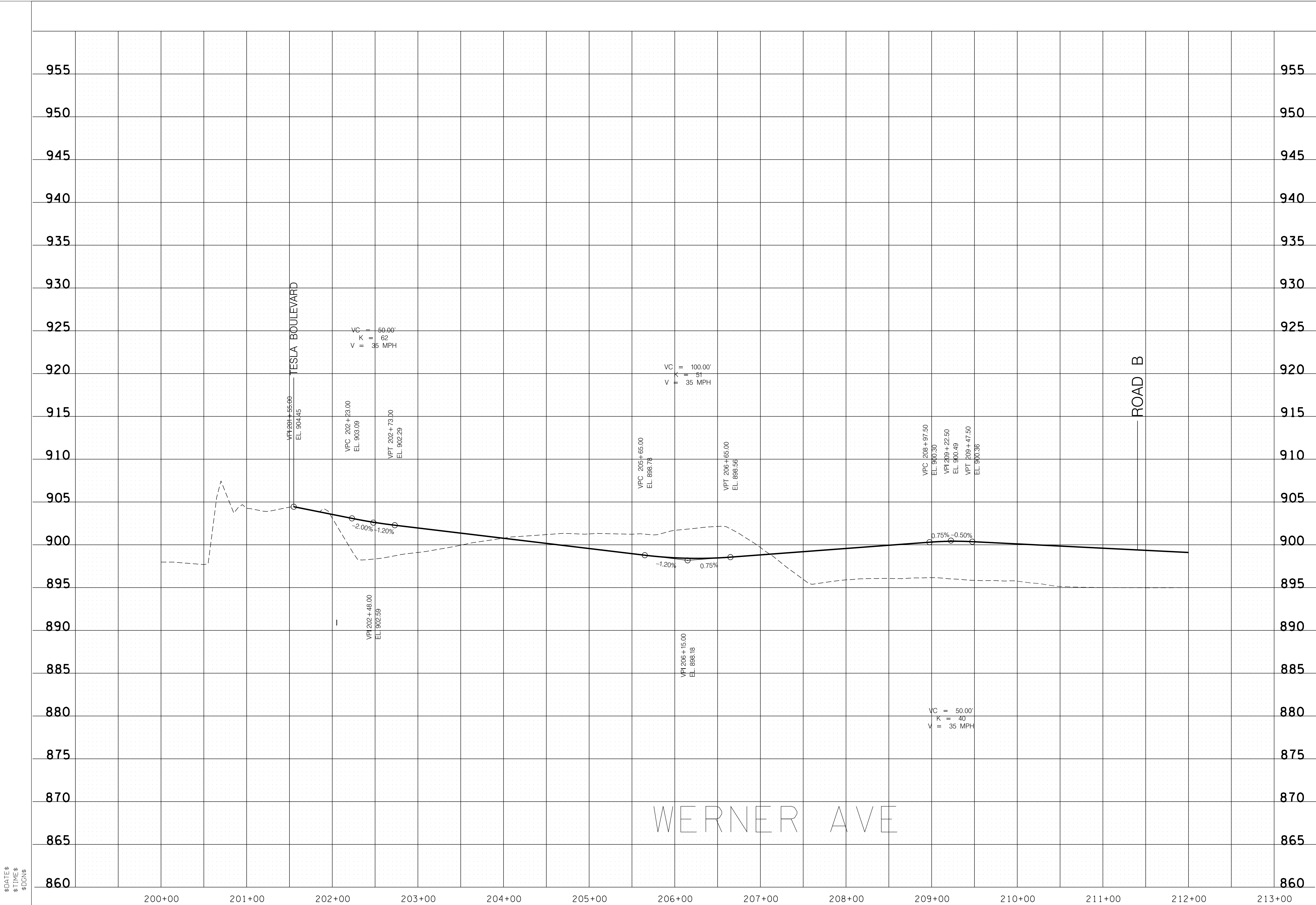
MASTER PLAN  
SRPINGBROOK FARM  
BLOUNT COUNTY, TENNESSEE



\$DATE\$  
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REVISION		
No.	Date	Revision

PROPOSED PROFILE

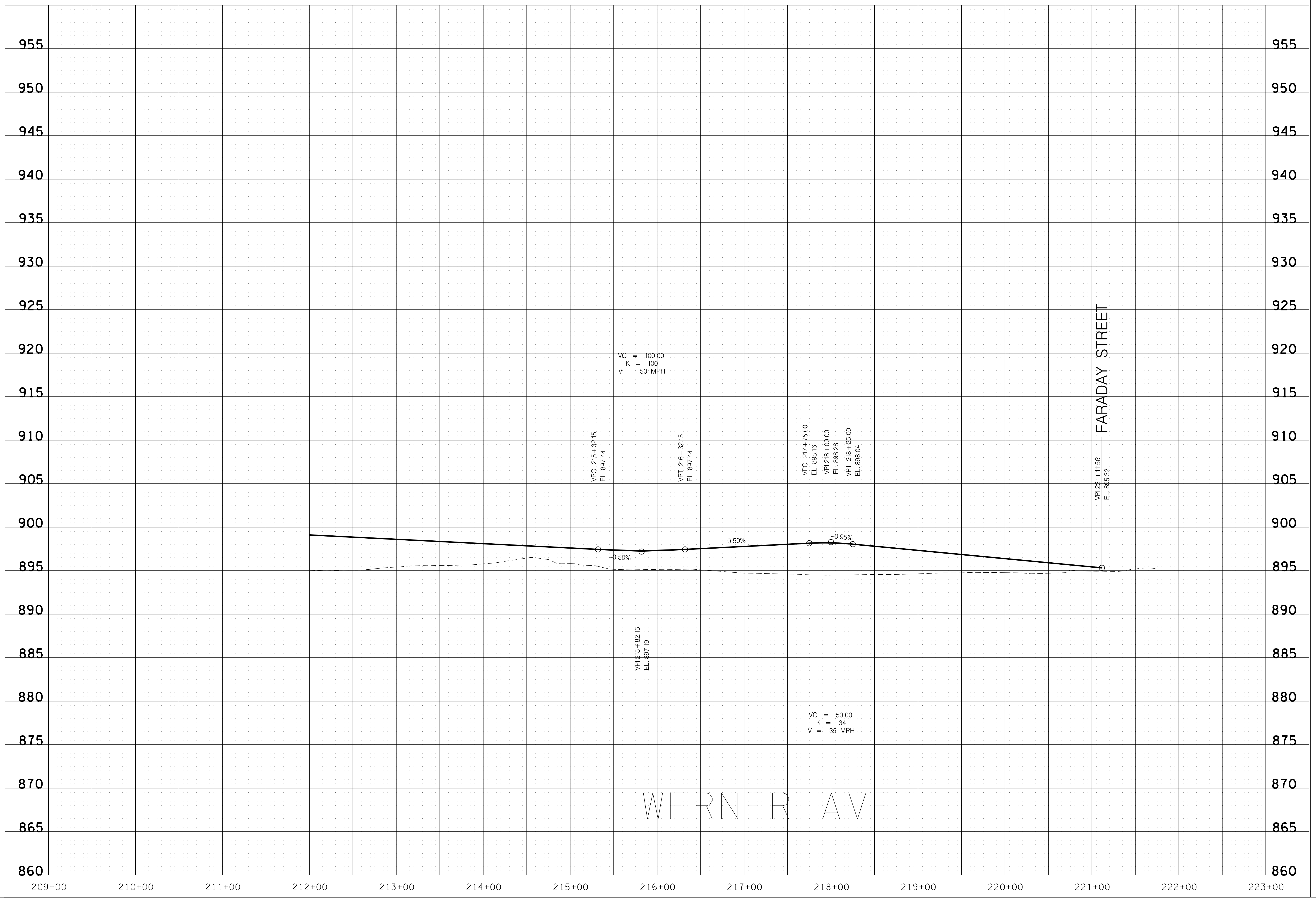


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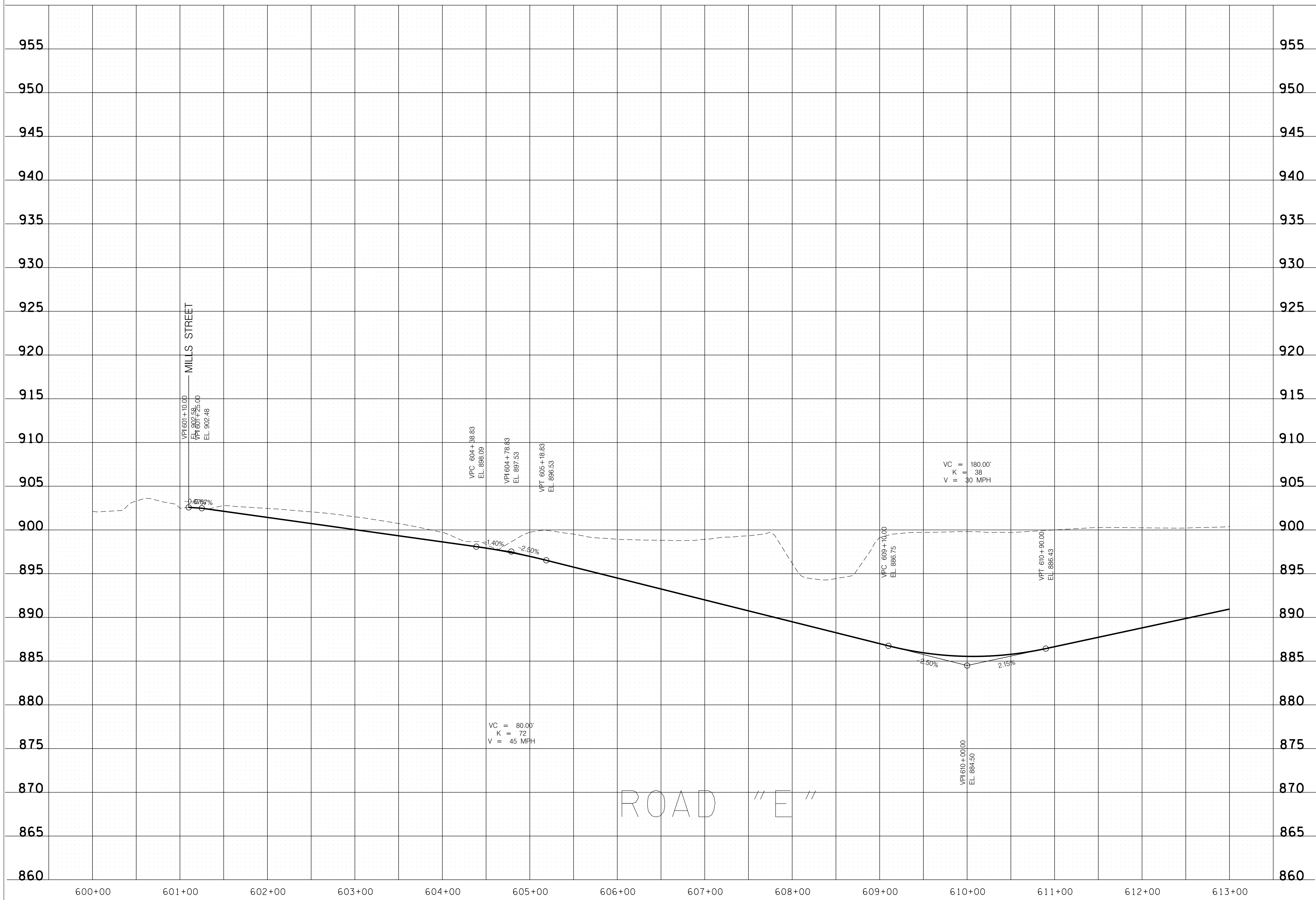
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No.	Date	Revision

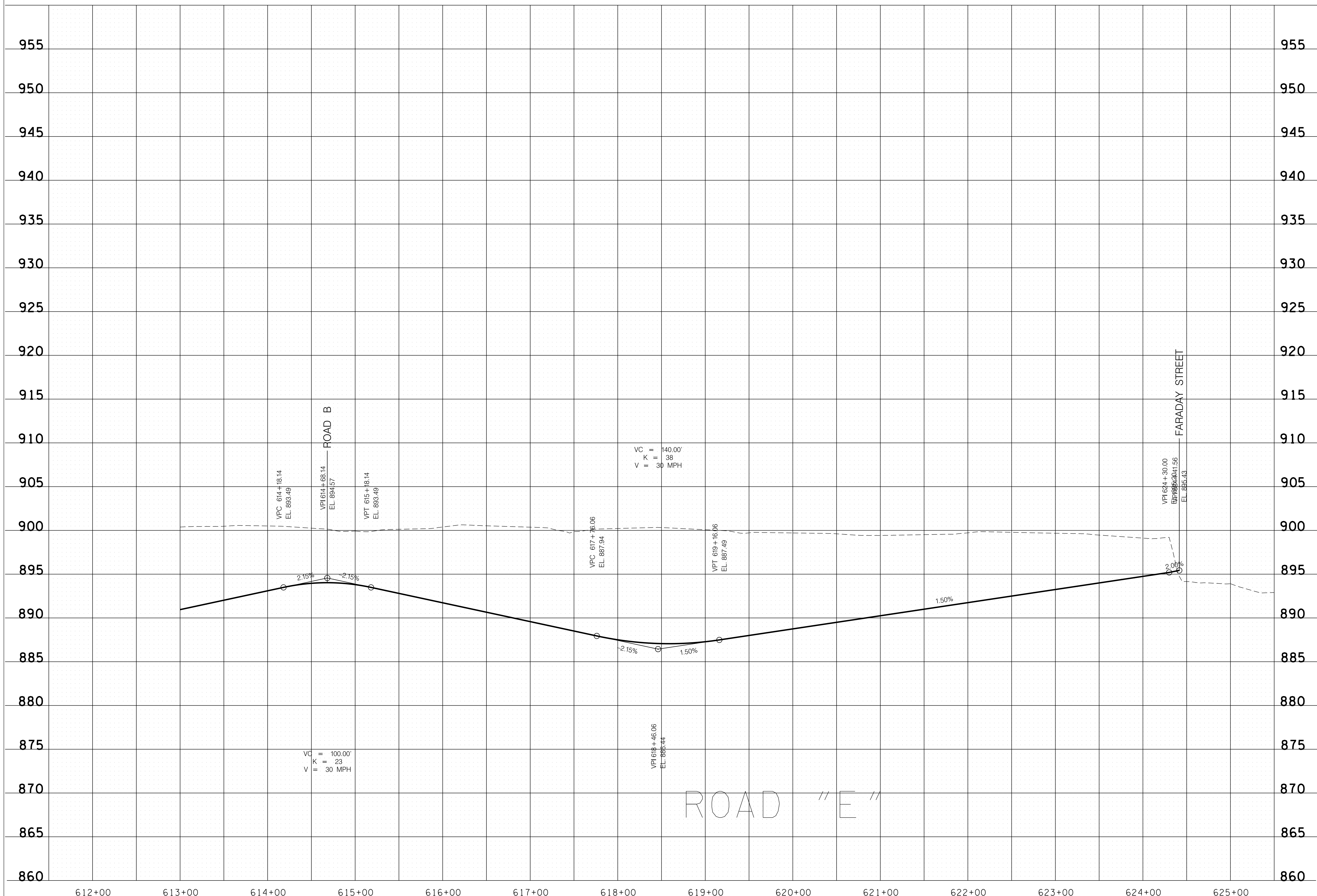
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REVISION		
No.	Date	Revision

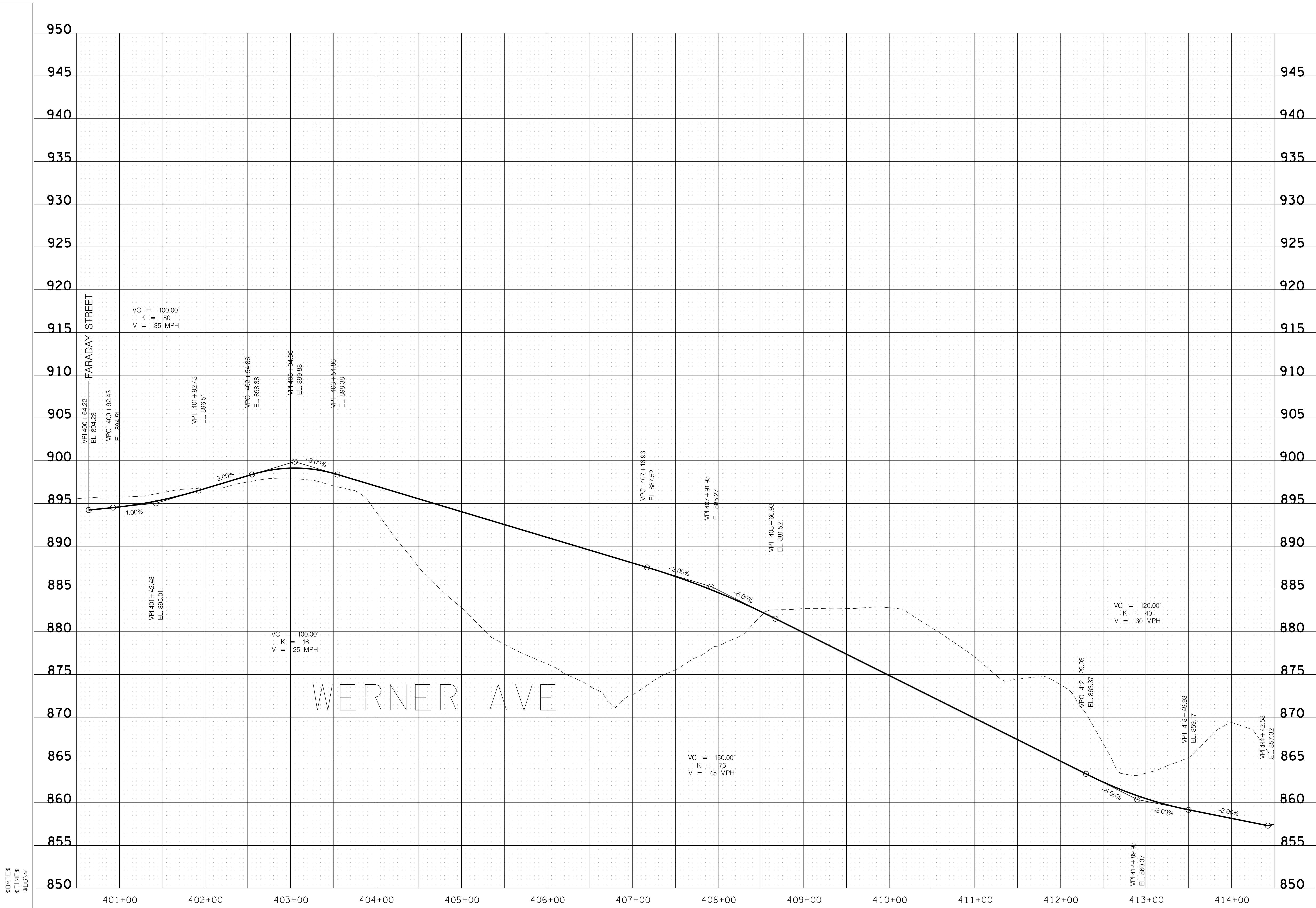
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REVISION		
No.	Date	Revision

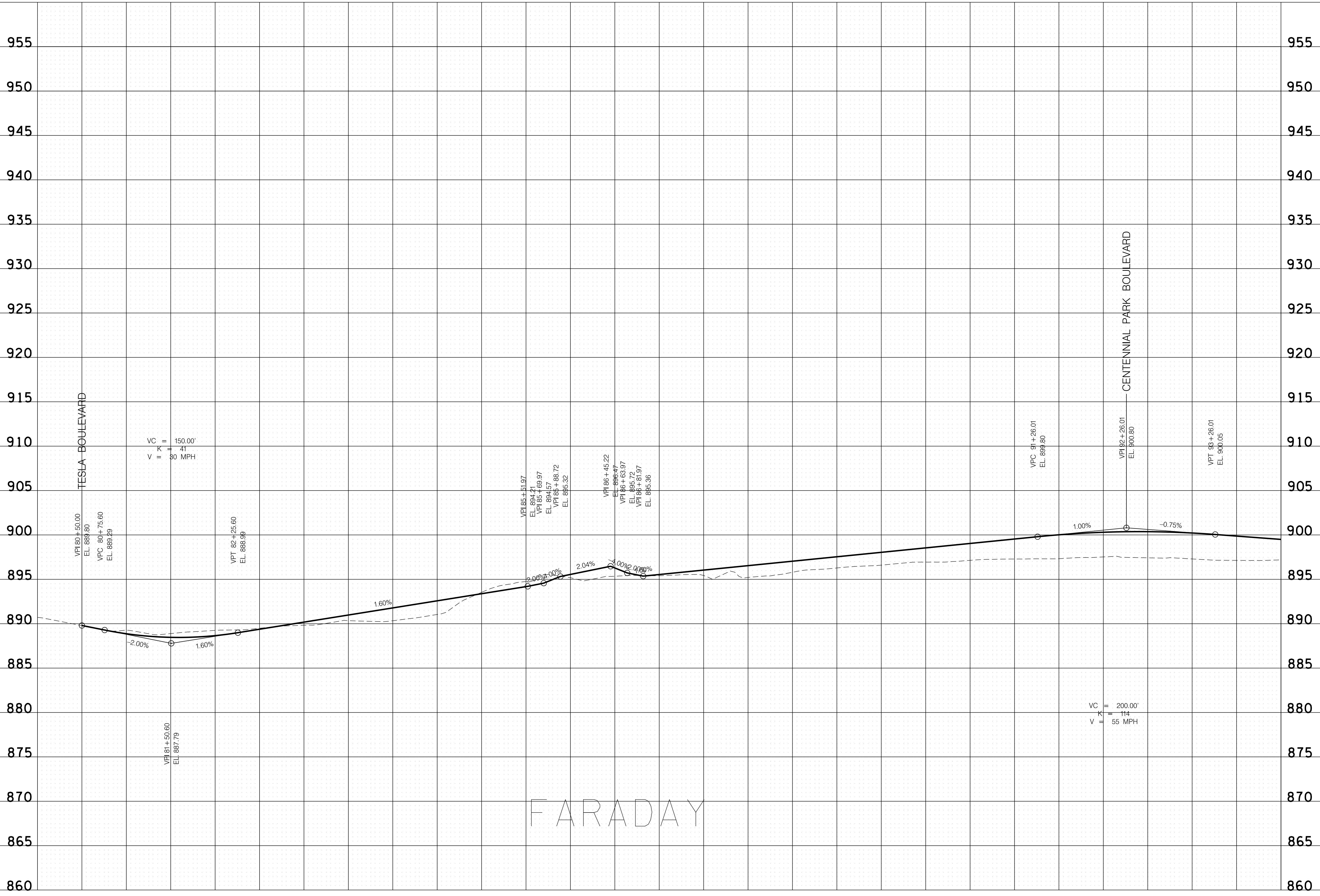
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\$TIME\$  
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PROPOSED PROFILE



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\$TIME\$  
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REVISION		
No.	Date	Revision

FARADAY

PROPOSED PROFILE

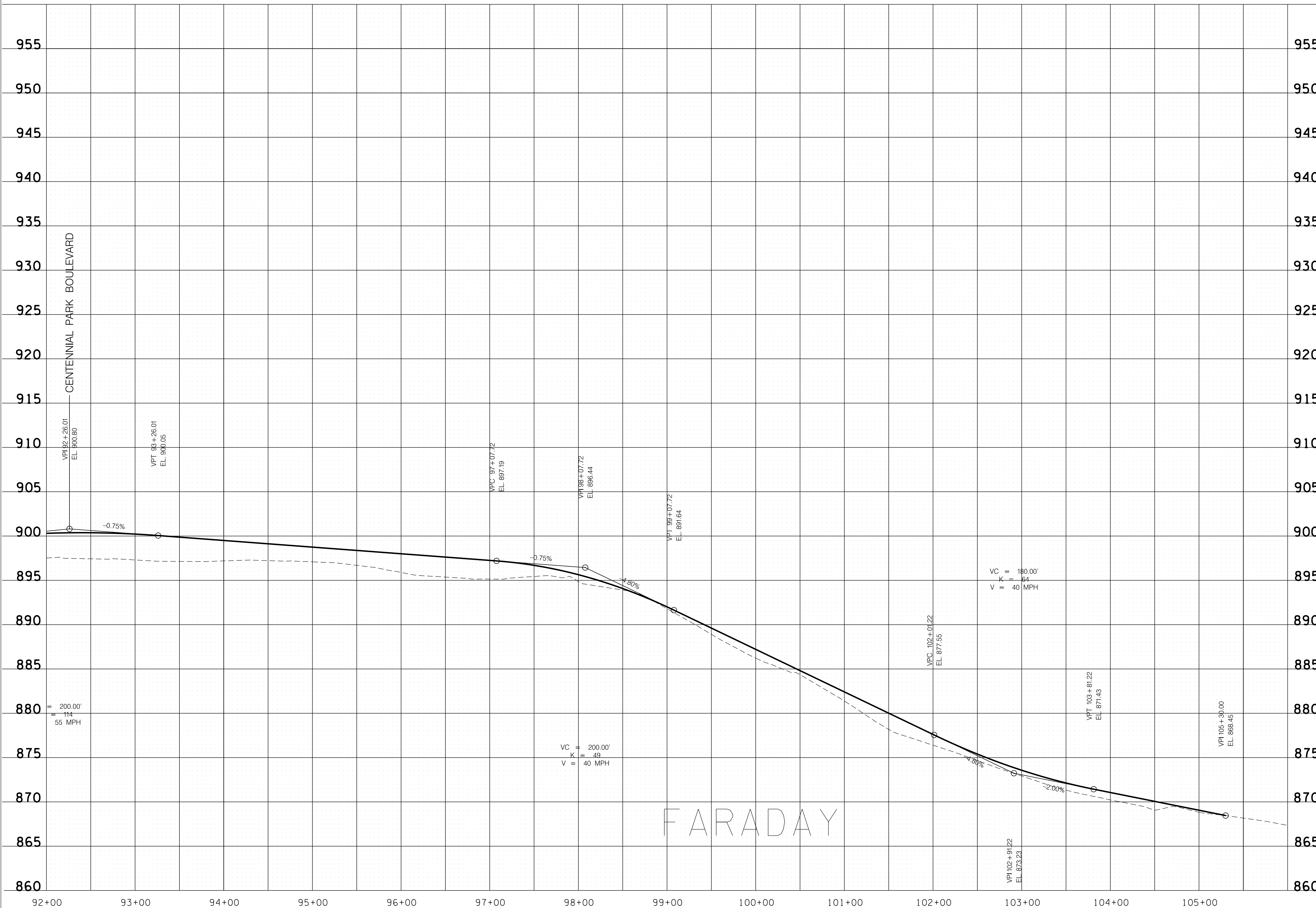


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**MASTER PLAN**  
**SRPINGBROOK FARM**  
BLOUNT COUNTY, TENNESSEE



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PROPOSED PROFILE

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MASTER PLAN  
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BLOUNT COUNTY, TENNESSEE

REVISION

No. Date Revision

No.	Date	Revision

PROPOSED PROFILE

27

SCALE: 1"=50'  
PROJECT: 20166.00  
DATE: 2020



MILLS STREET

\$DATE\$  
\$TIME\$  
\$DGN\$



**Gresham  
Smith**

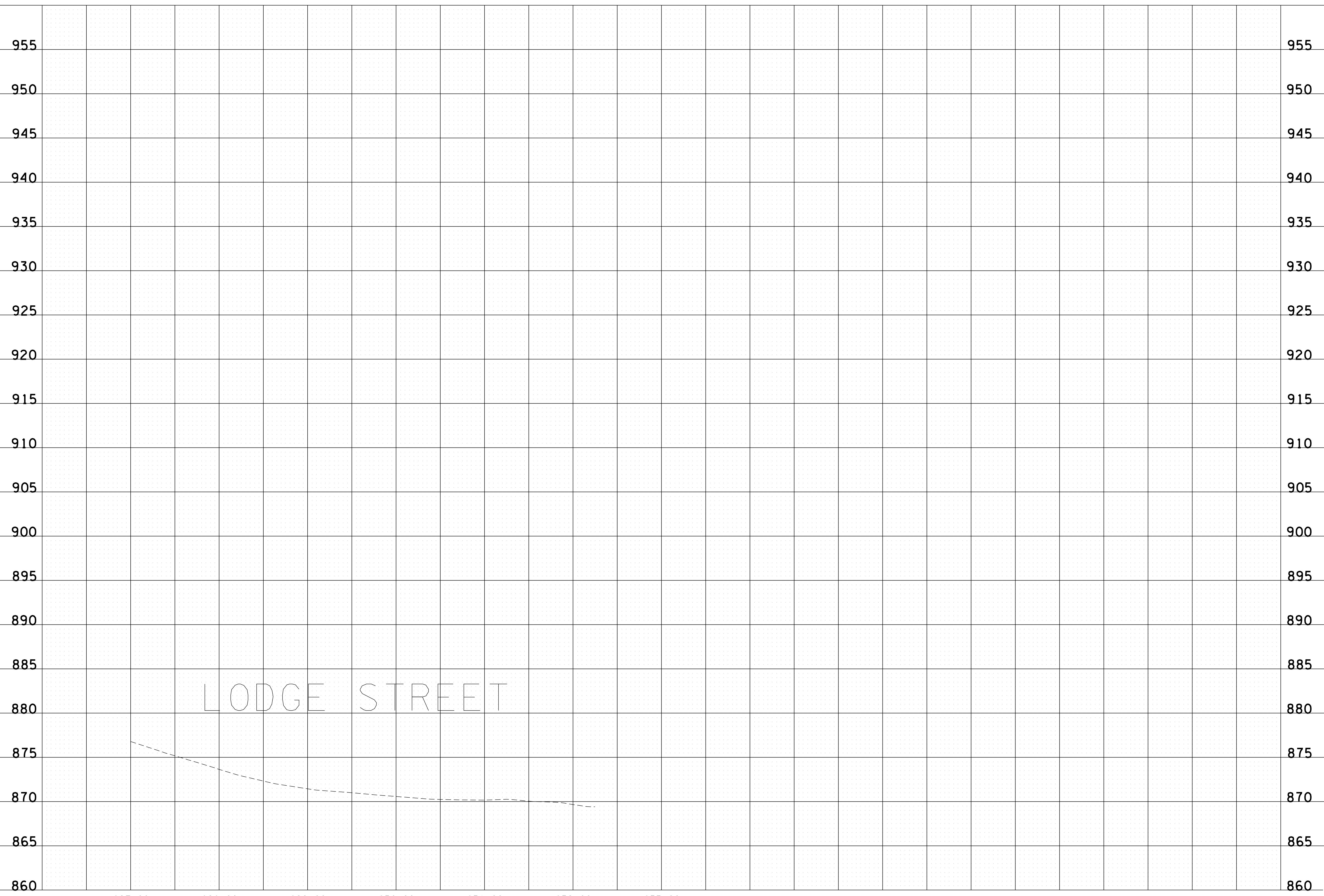
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 BLOUNT COUNTY, TENNESSEE

REVISION		
No.	Date	Revision

PROPOSED PROFILE



LODGE STREET

\$DATE \$  
 \$TIME \$  
 \$DGN \$