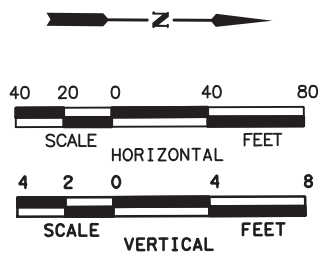
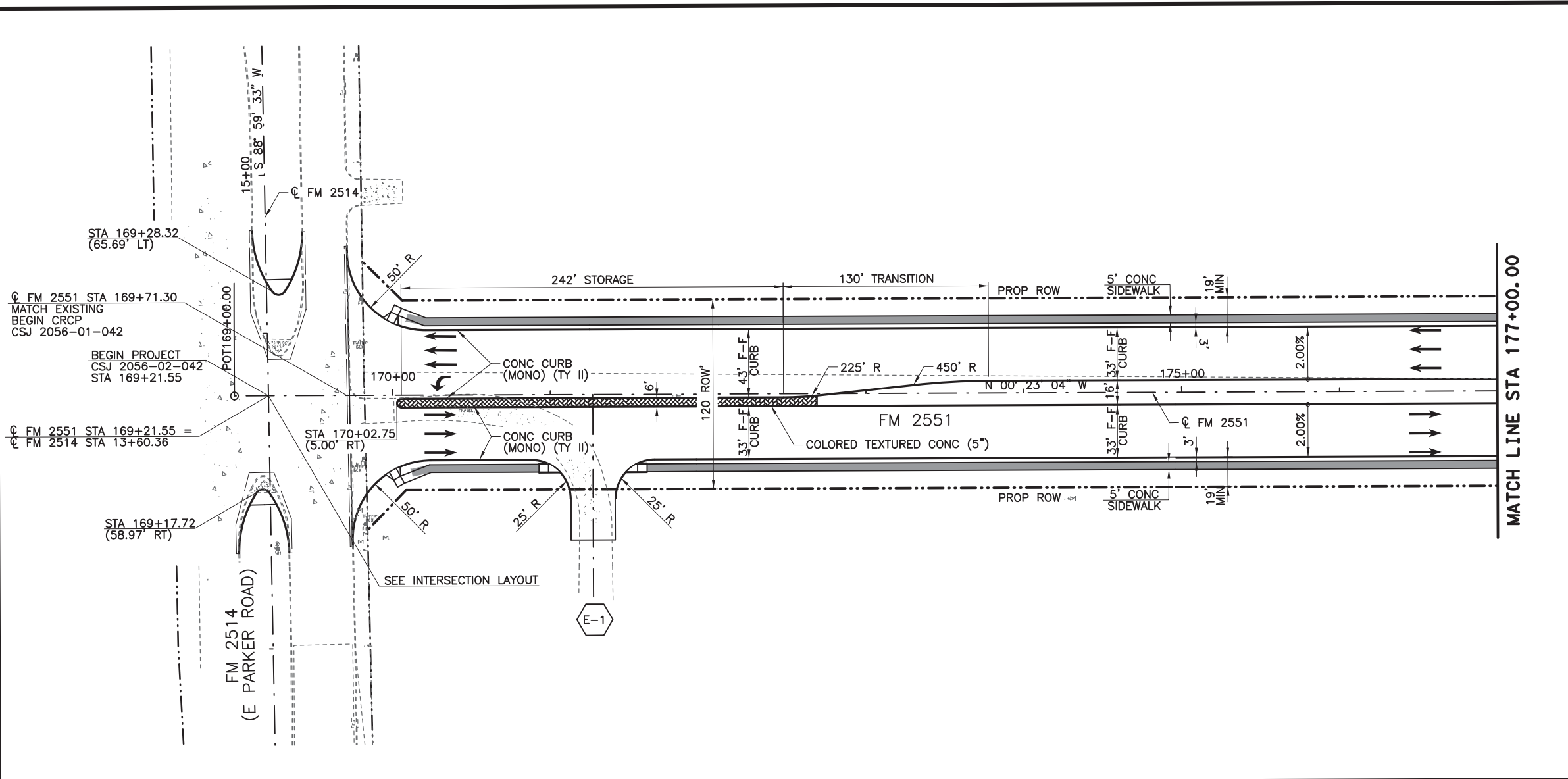


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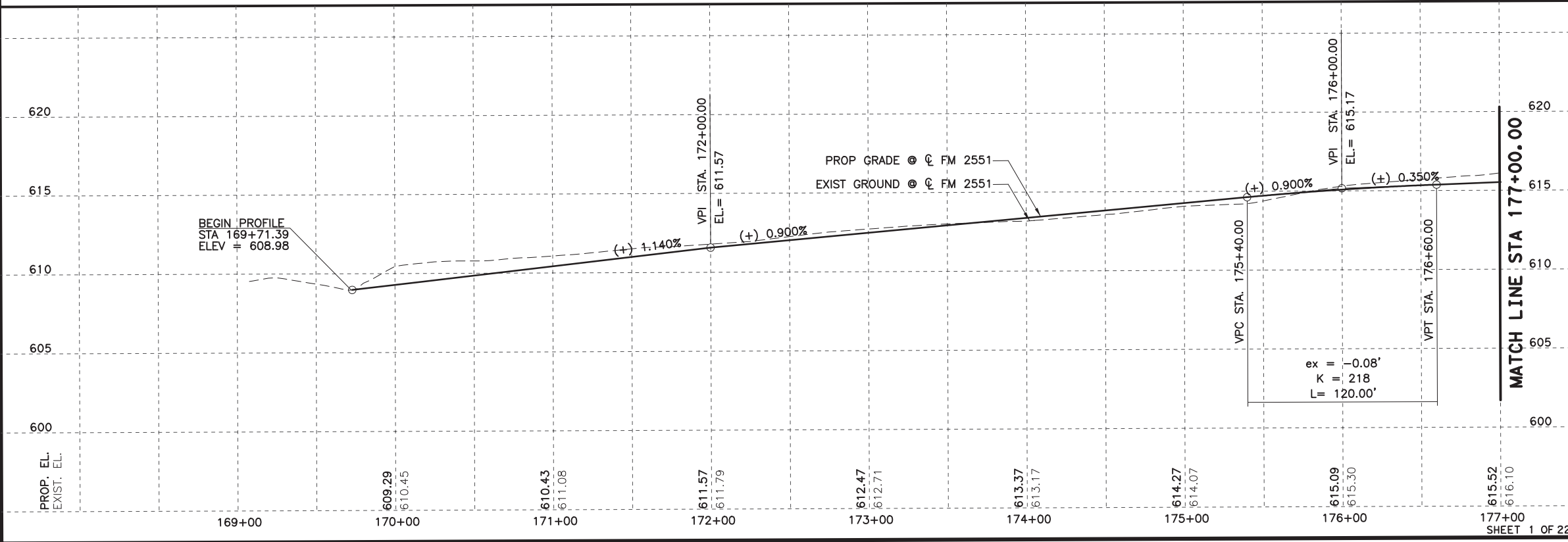
- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM CL FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019



NO.	REVISION	BY	DATE

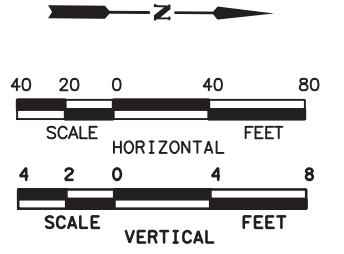
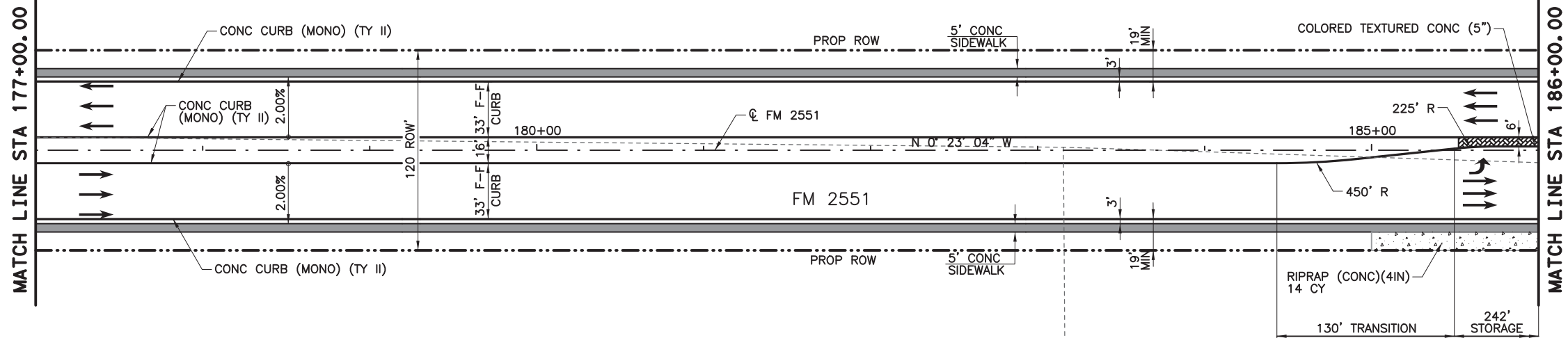
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
BEGIN PROJECT TO STA 177+00.00

Designed: CPY	FED. DIV. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				124

8/16/2019 9:15:45 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDP02.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\text{C FM 2551}$  UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

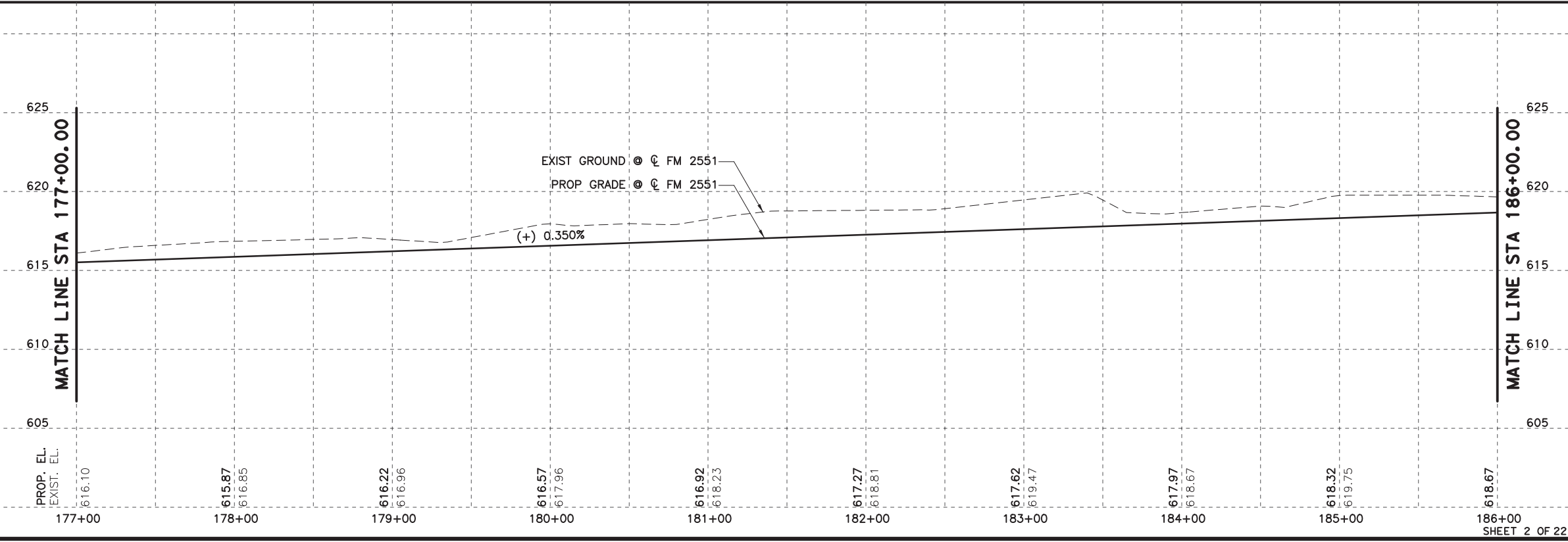
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

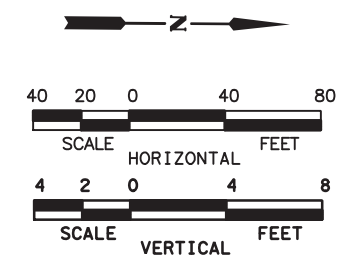
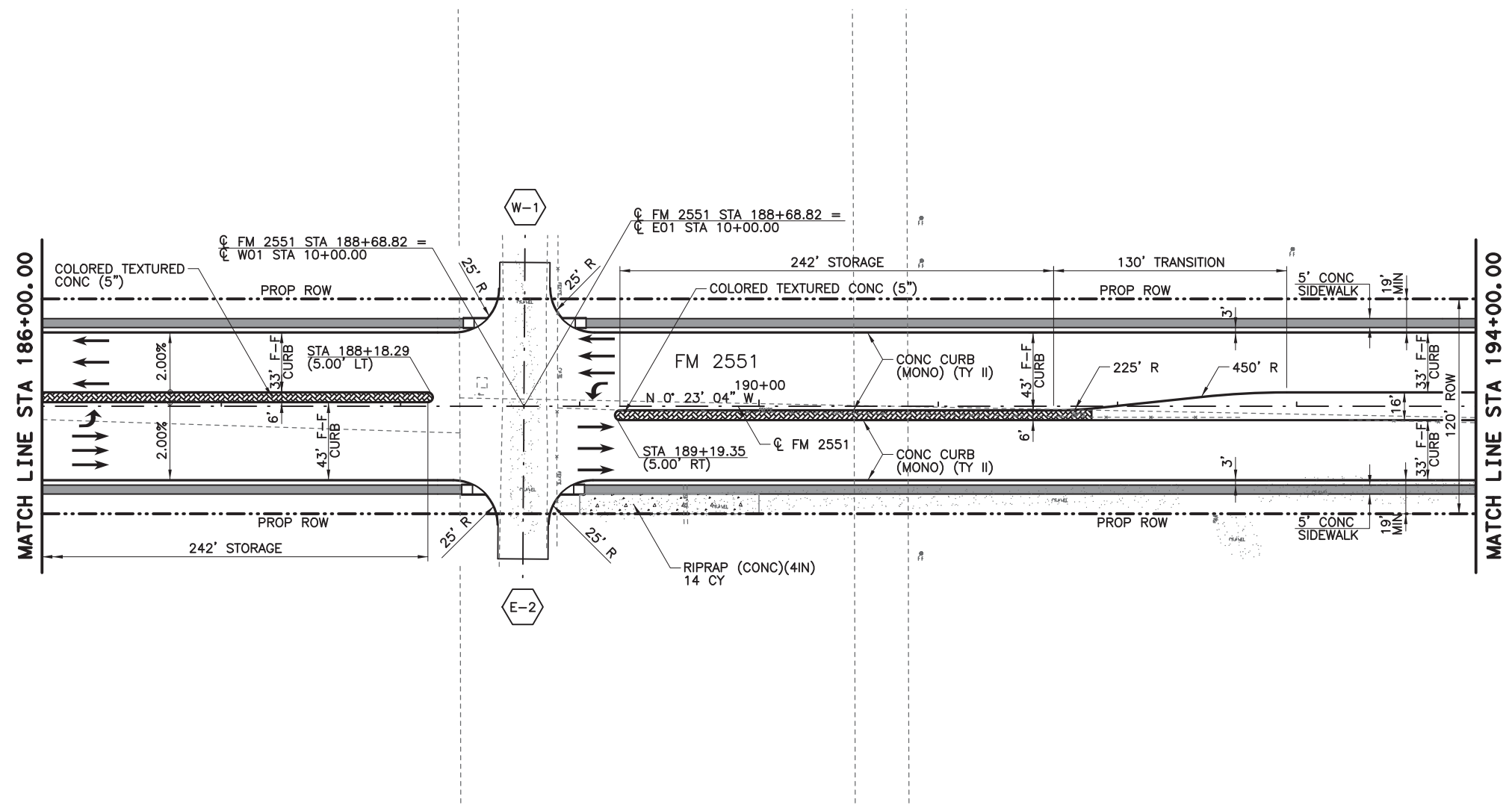
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
STA 177+00.00 TO STA 186+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 125		SHEET NO. 125



8/16/2019 9:15:50 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp03.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

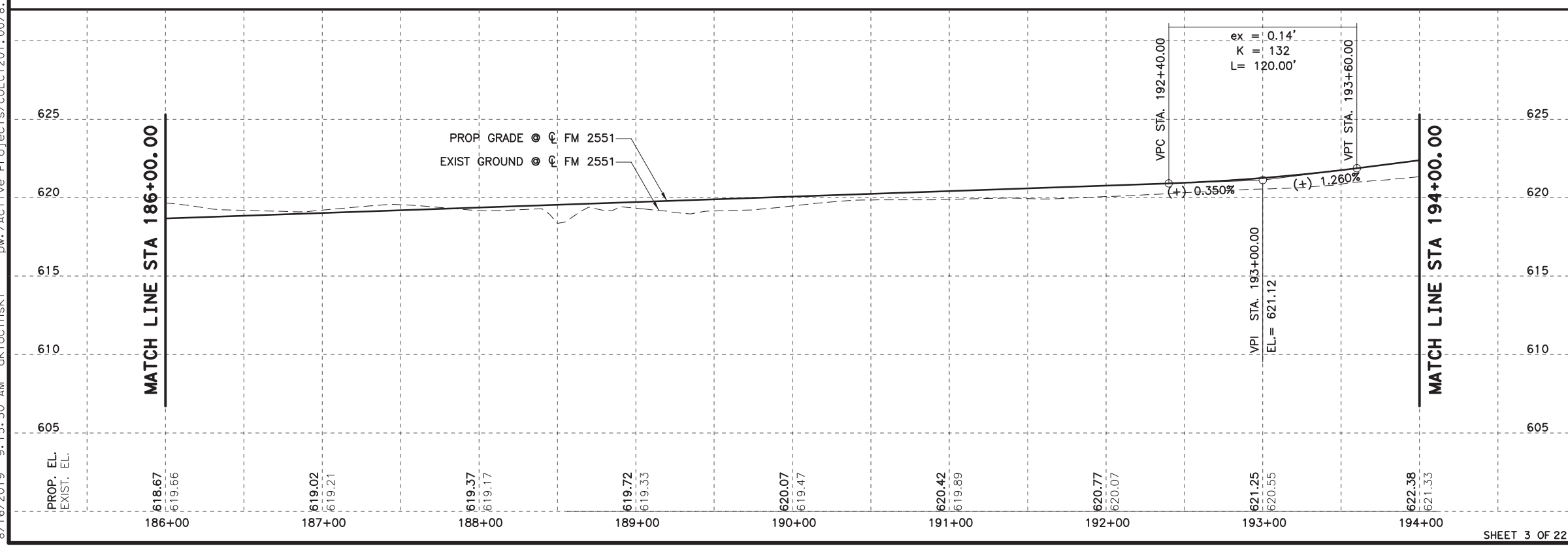
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

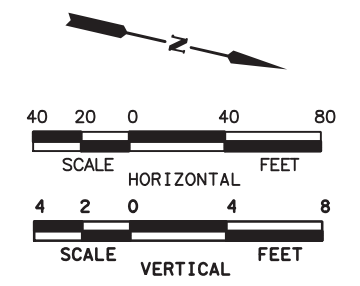
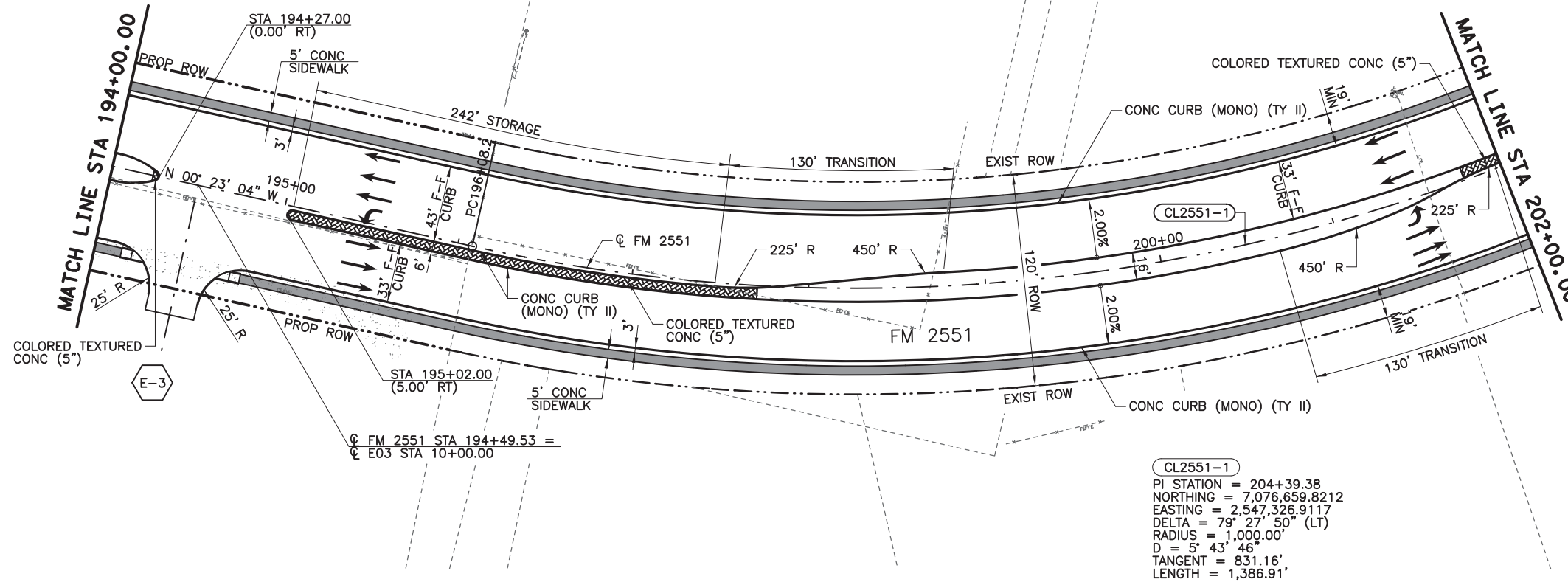
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 186+00.00 TO STA 194+00.00

Designed: CPY	FED. PROJ. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				126



8/16/2019 9:15:55 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDP04.dgn



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10
- CL2551-X HORIZ CURVE NO
- X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

**NOTES:**

1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741

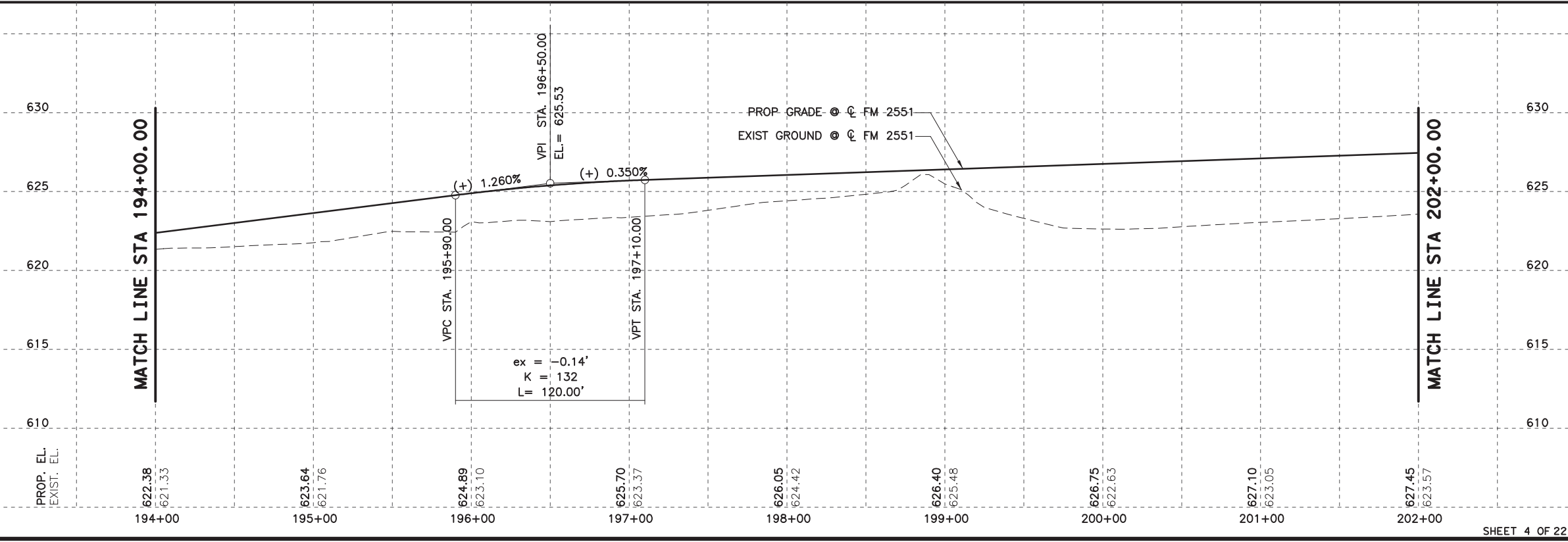


FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

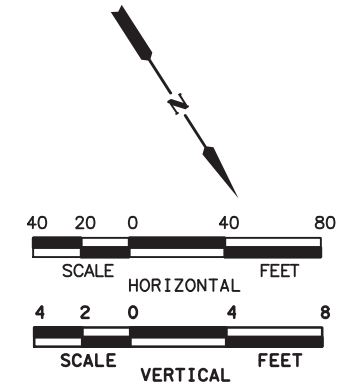
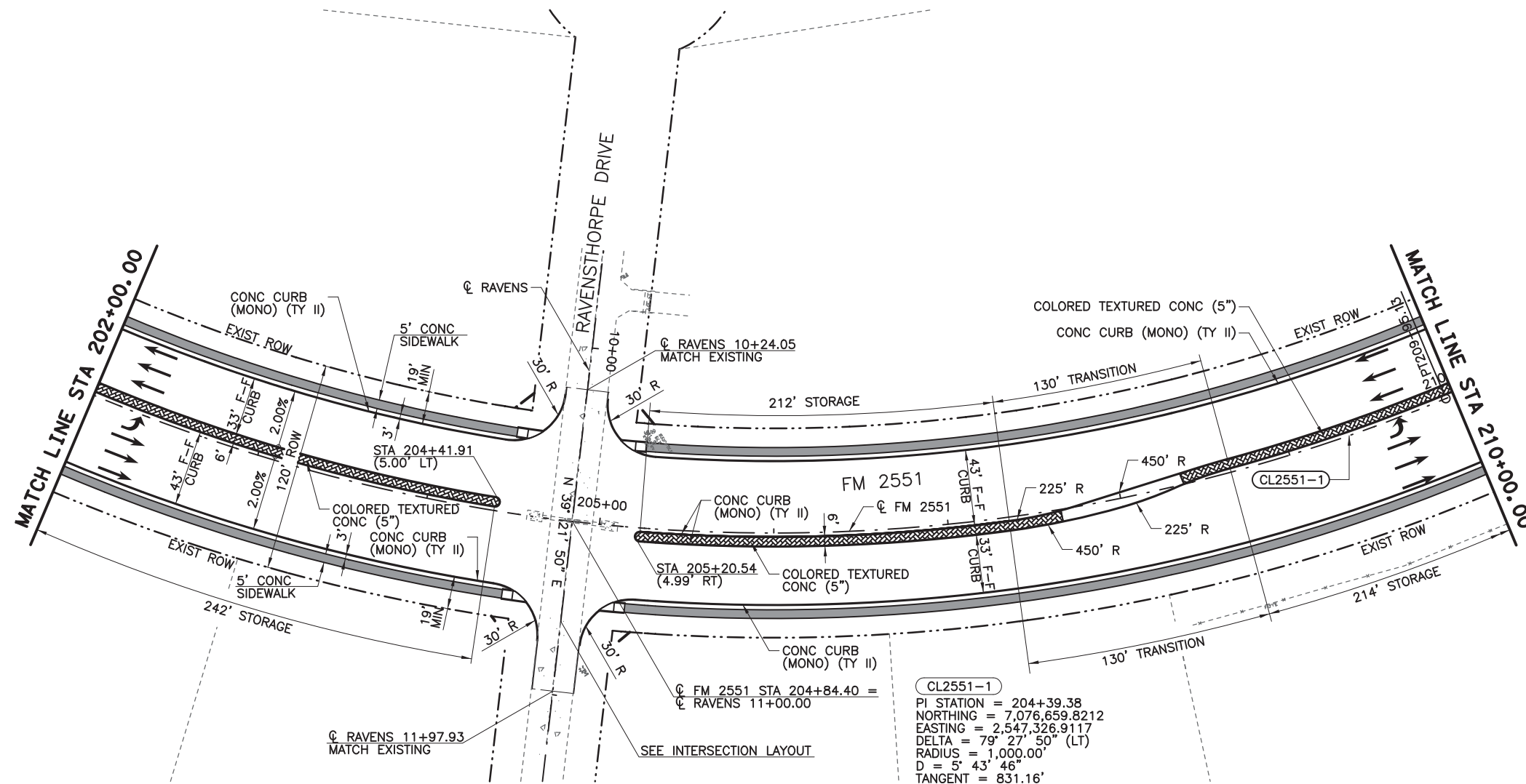
**PLAN AND PROFILE**

STA 194+00.00 TO STA 202+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 127		



8/16/2019 9:16:01 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp05.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM CL FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

100% PLANS ADEQUATE  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

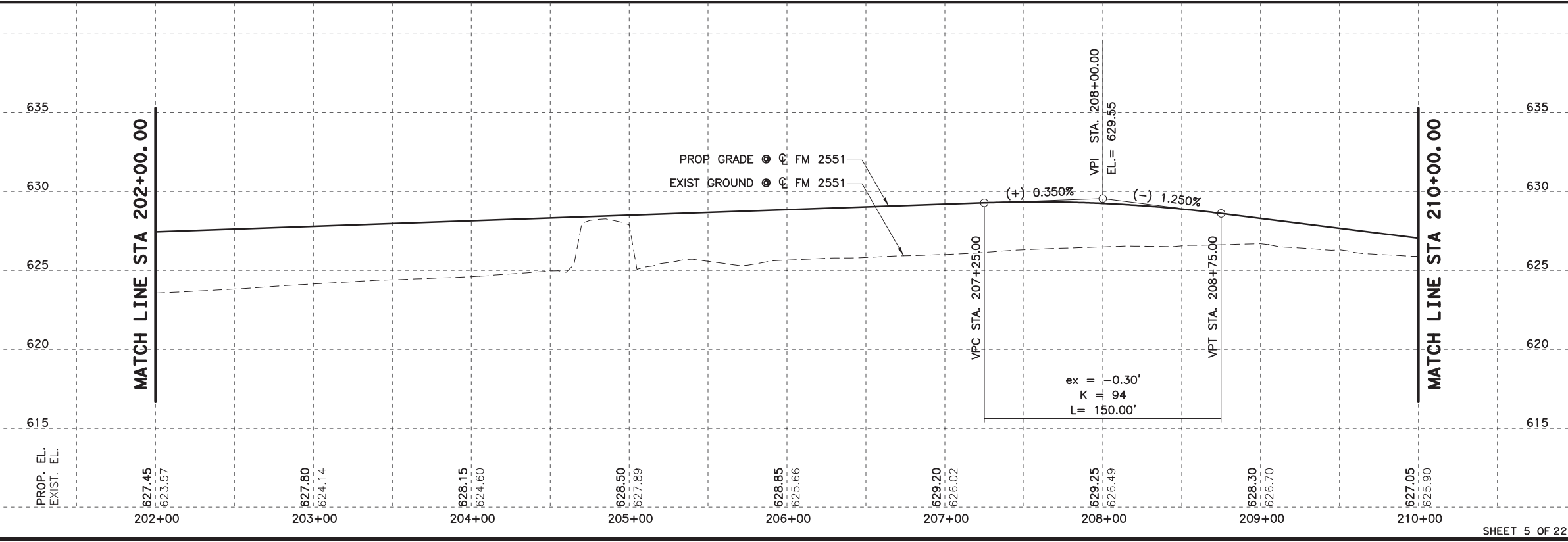
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

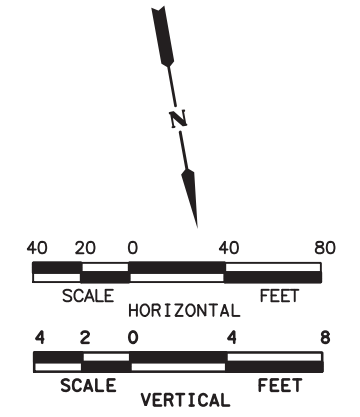
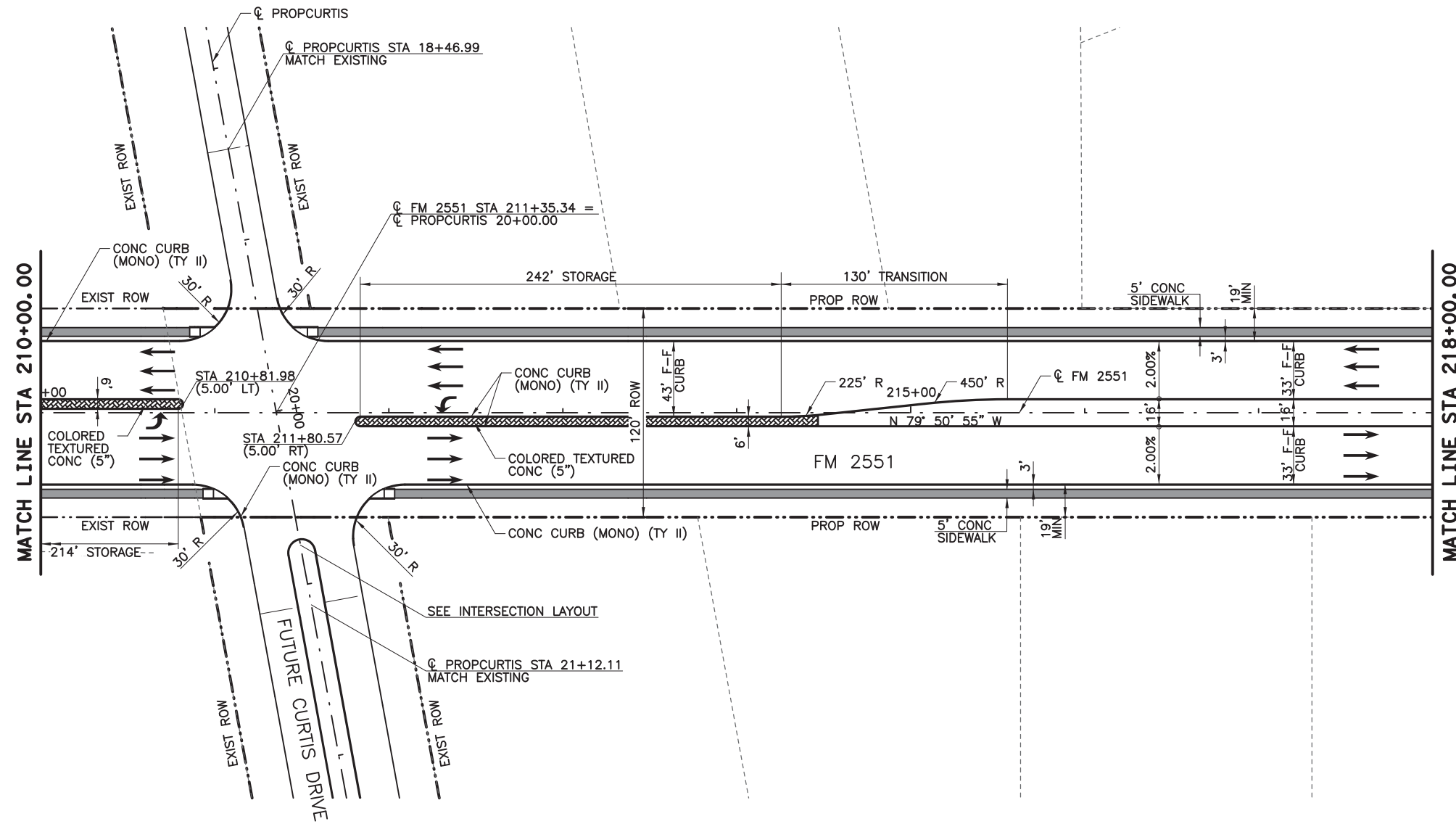
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 202+00.00 TO STA 210+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 128			



8/16/2019 9:16:06 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDP06.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

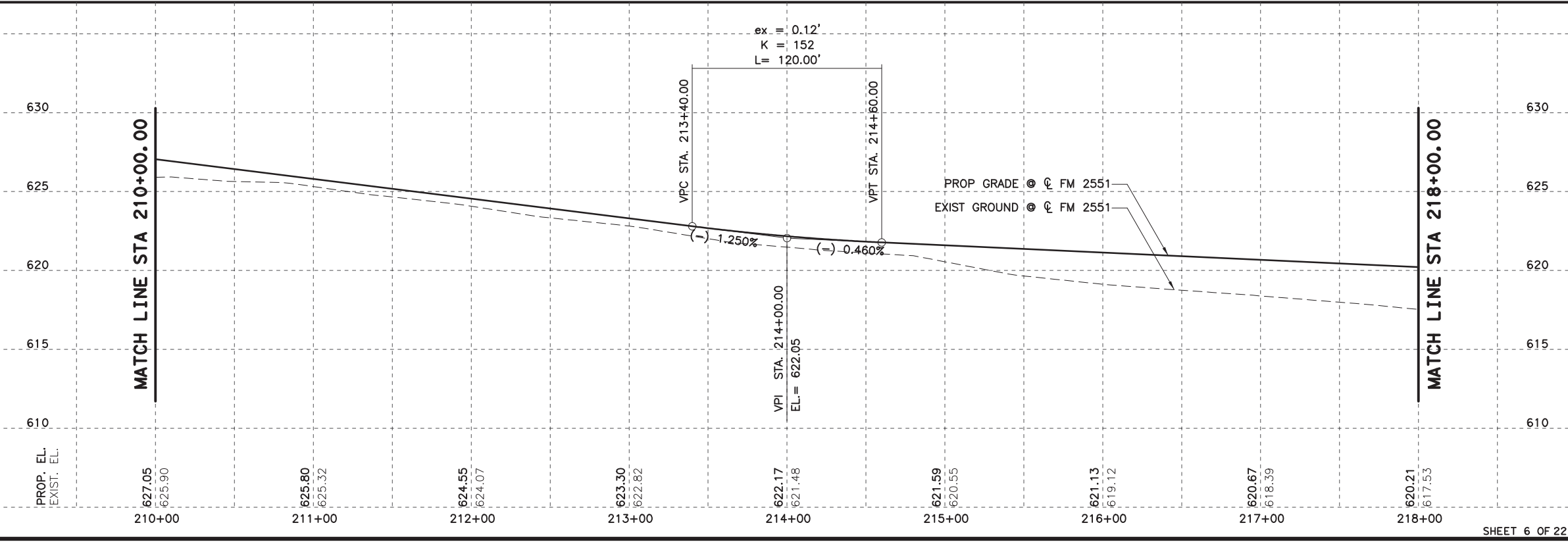
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

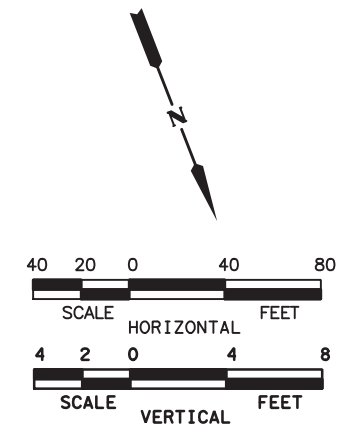
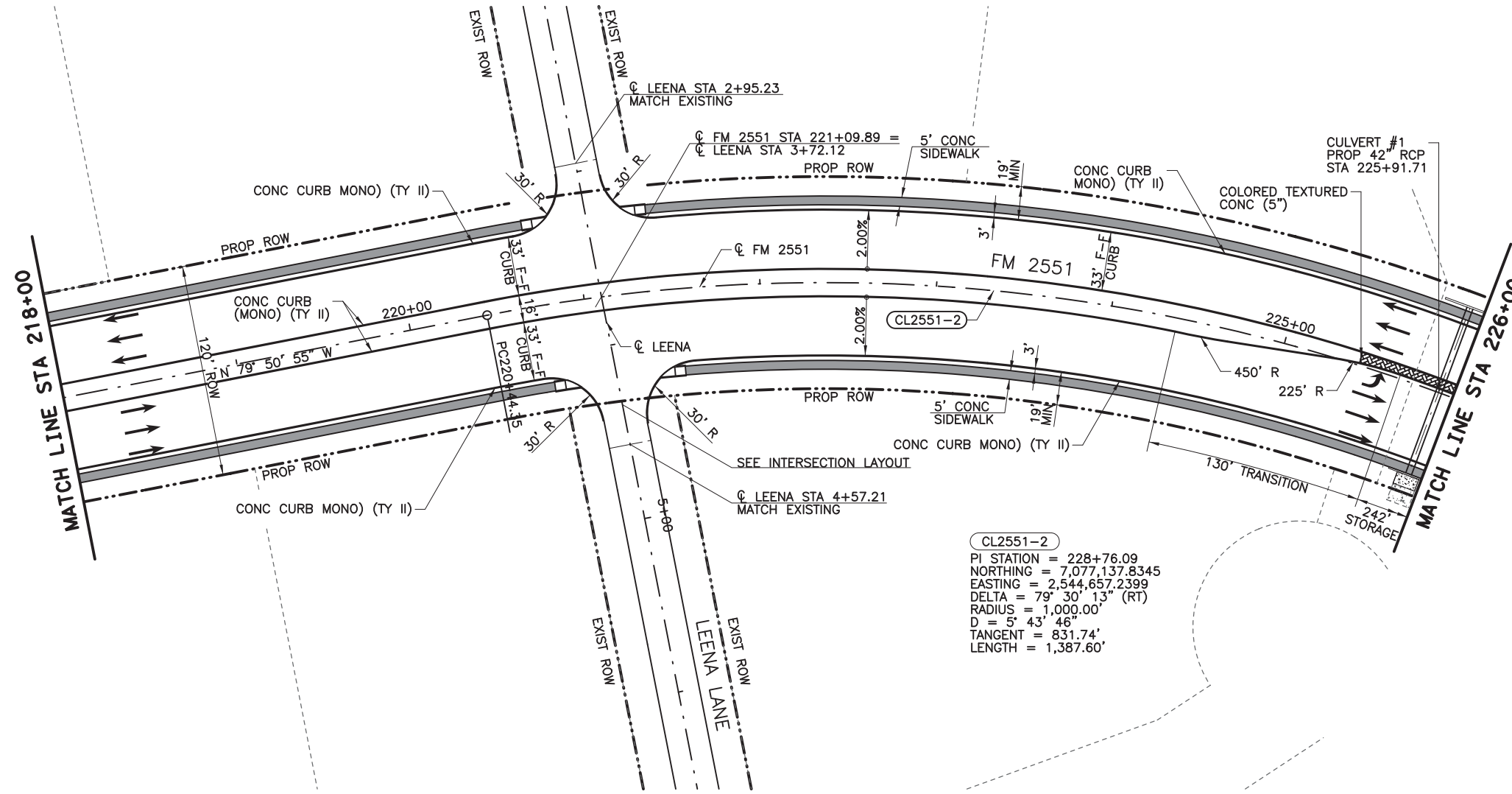
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
STA 210+00.00 TO STA 218+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 129		SHEET NO. 129



8/16/2019 9:16:12 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp07.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

100% PLANS ADEQUATE  
 Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

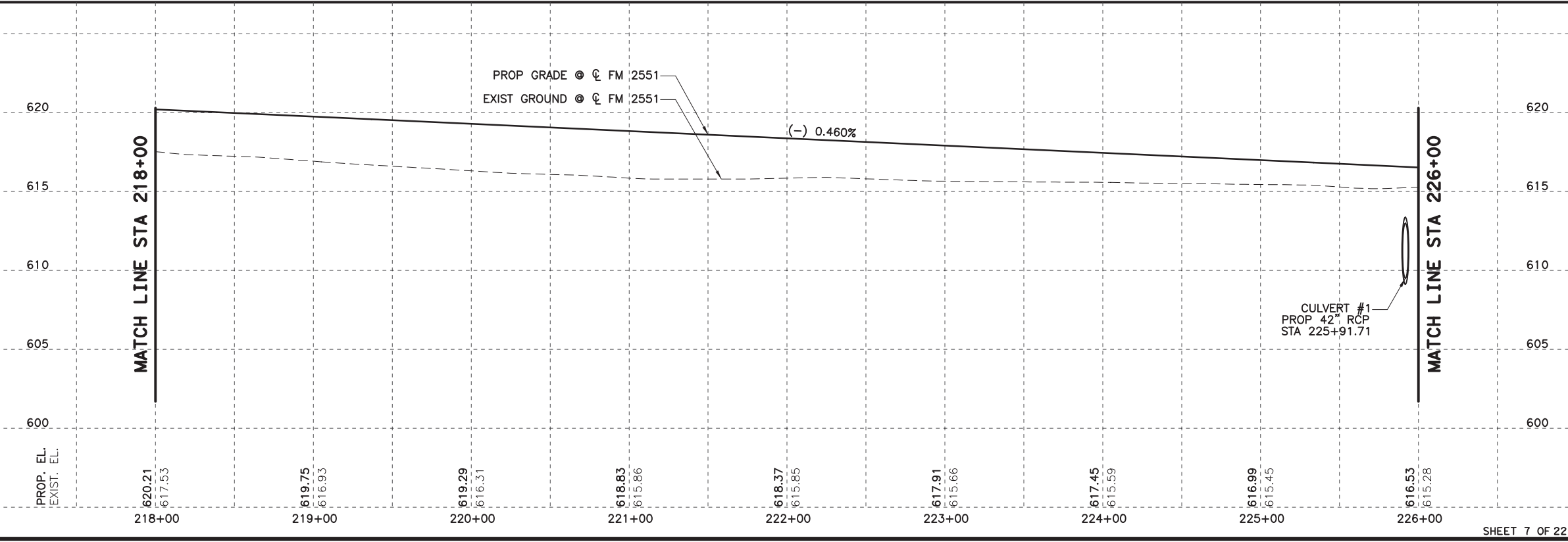
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

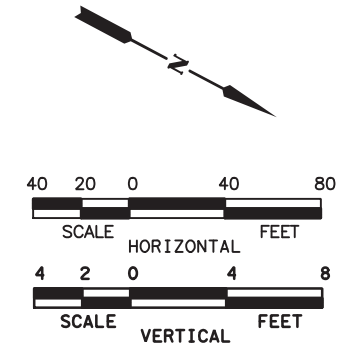
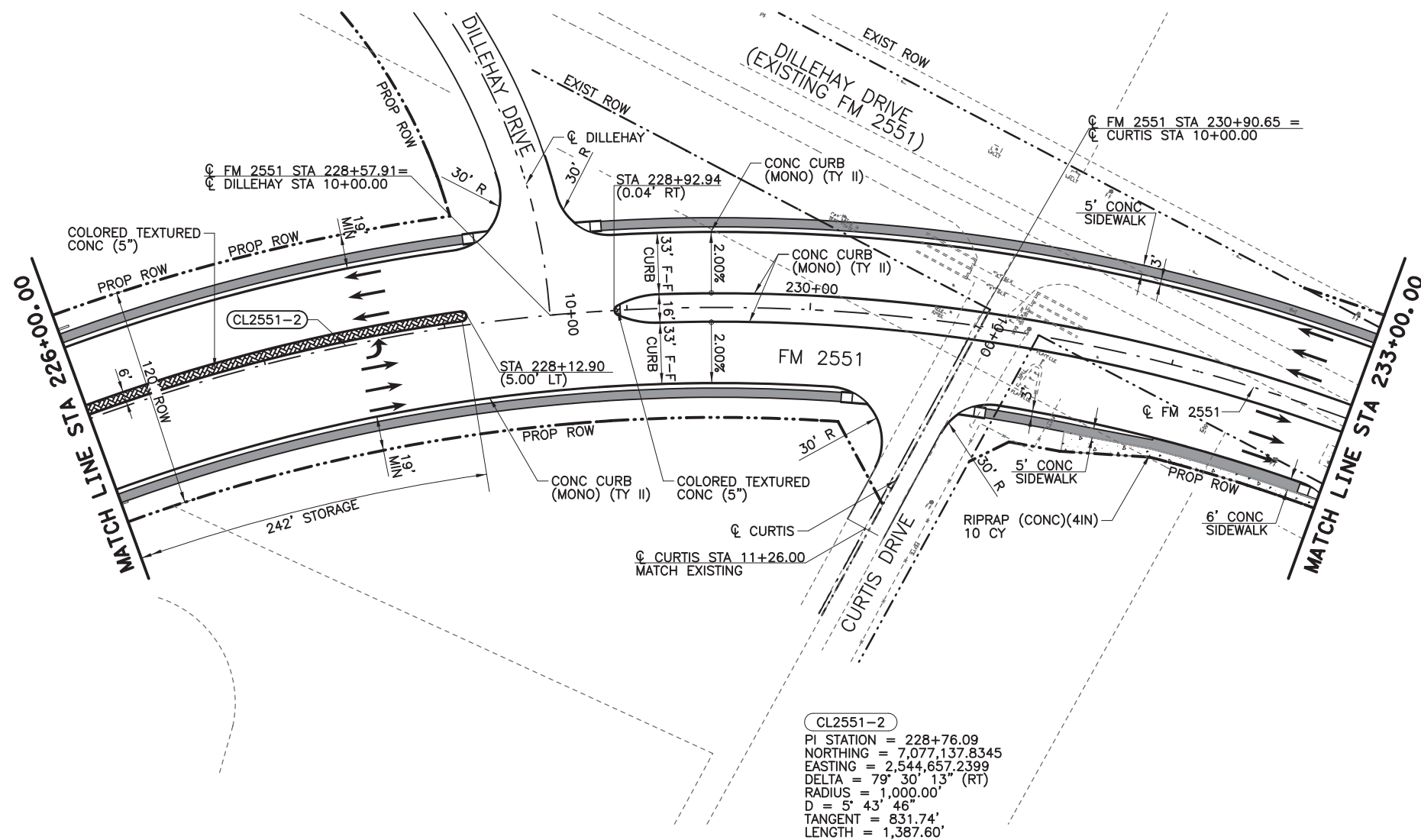
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 218+00.00 TO STA 226+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	NO. 18	DIST. COLLIN	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 130			



8/16/2019 9:16:17 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp08.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

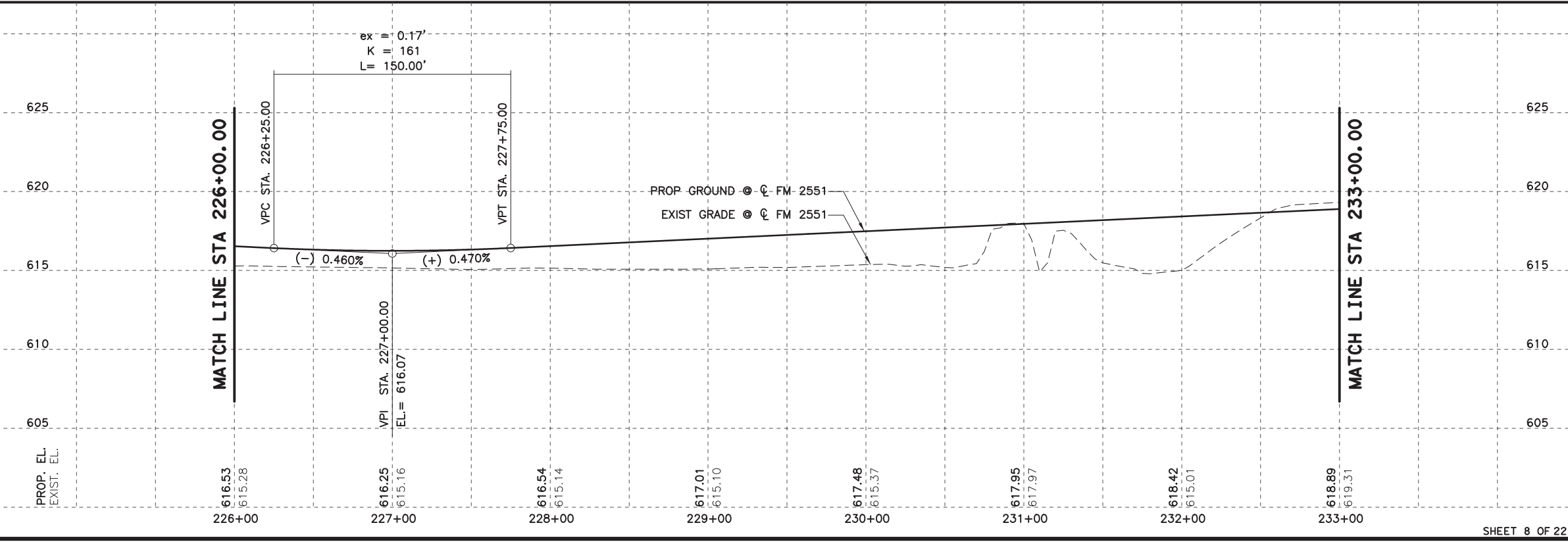
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
**FM 2551 (MURPHY ROAD)**

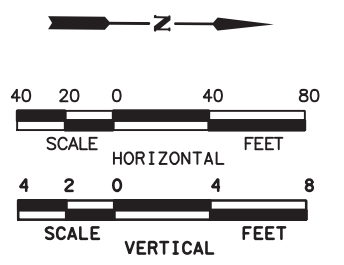
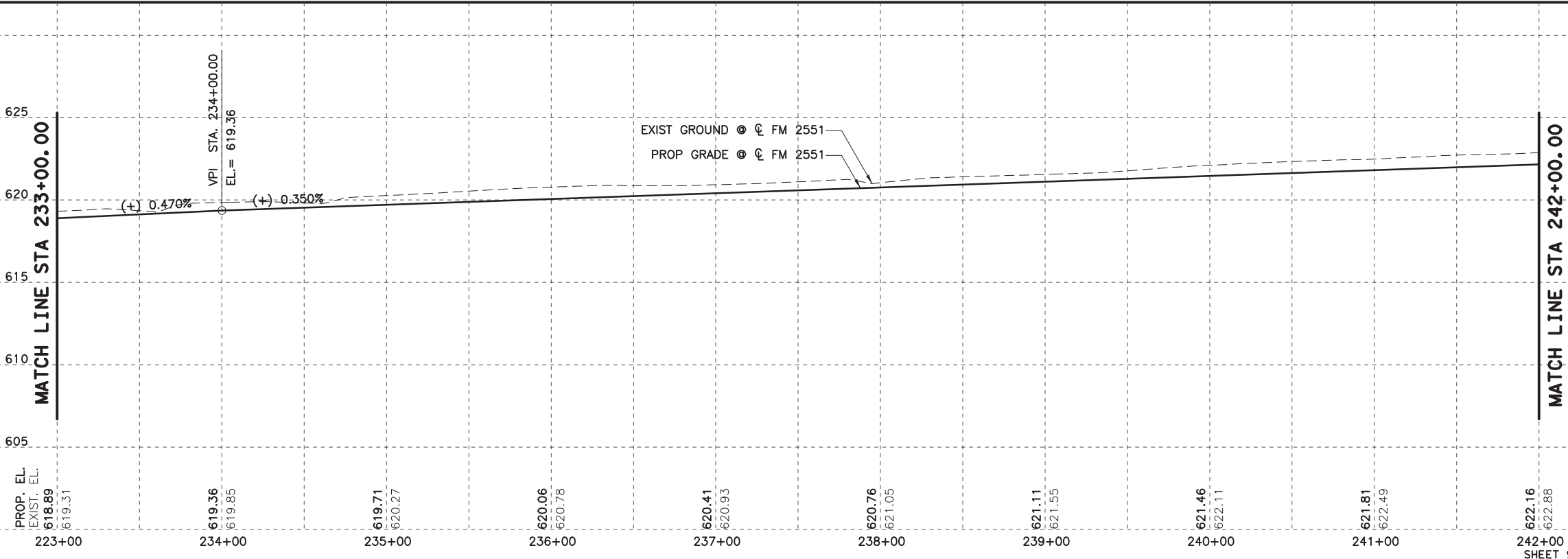
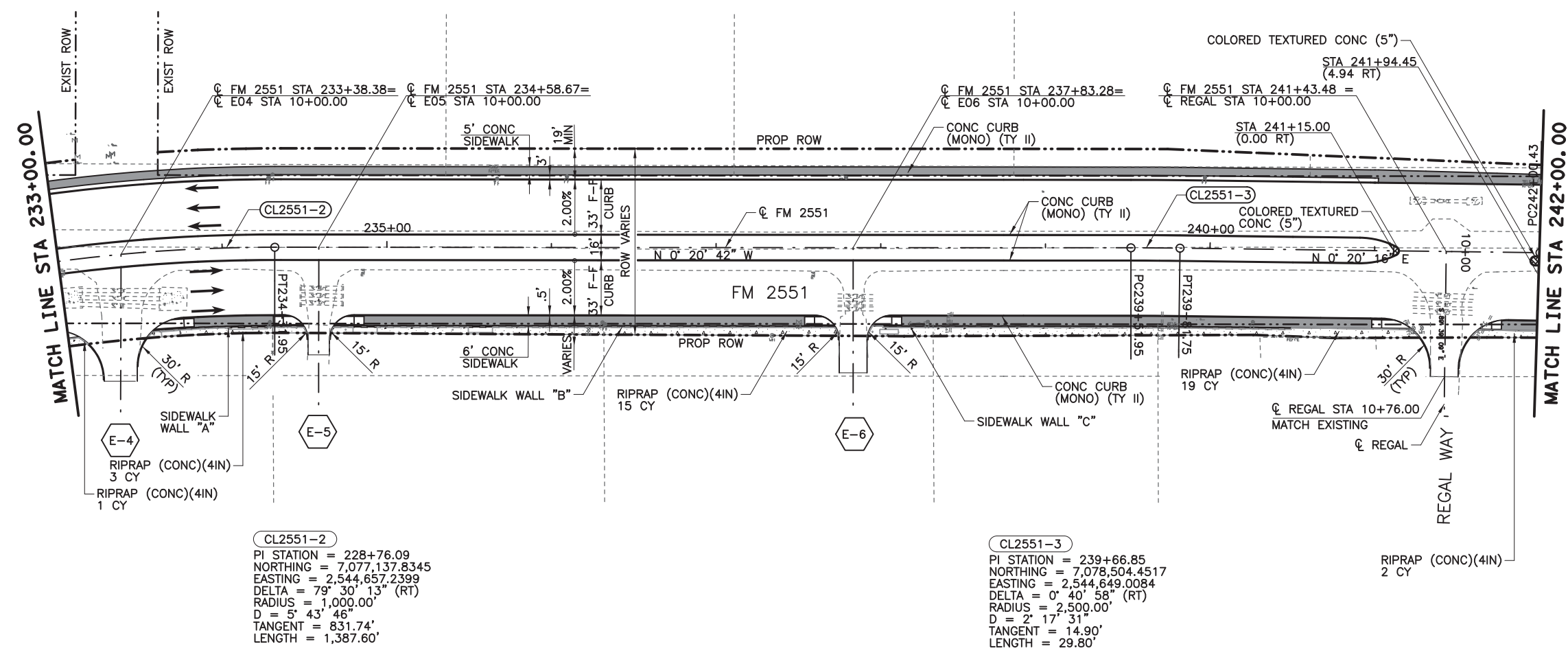
**PLAN AND PROFILE**  
 STA 226+00.00 TO STA 233+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 2056	SHEET NO. 01	SHEET NO. 042
Checked: CPY	SHEET NO. 18	SHEET NO. 2056	SHEET NO. 01	SHEET NO. 042





8/16/2019 9:16:22 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDP09.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM CL FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

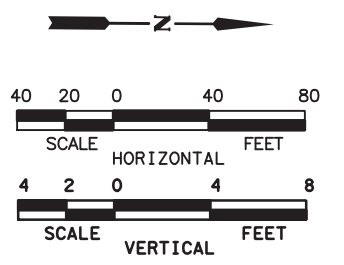
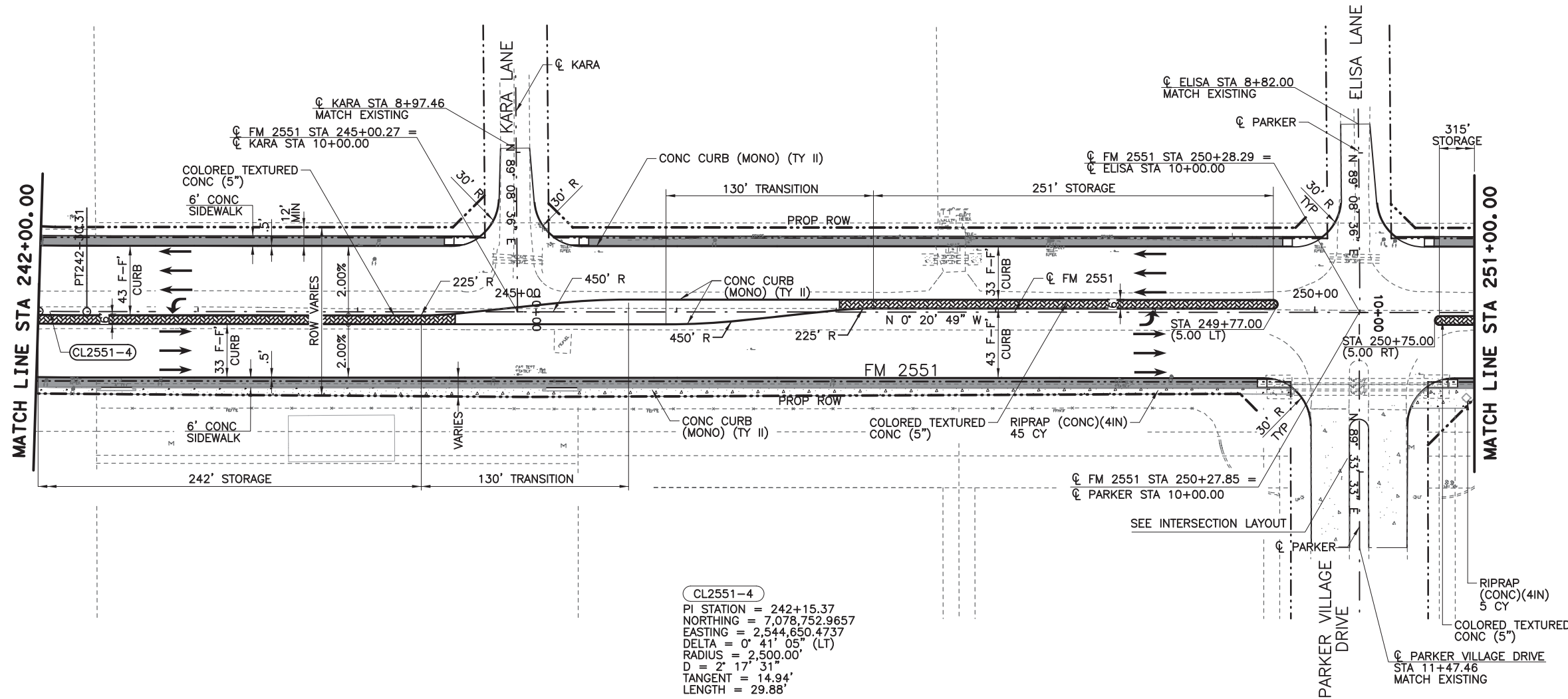
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**  
 FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 233+00.00 TO STA 242+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO.	SHEET NO.	SHEET NO. 132

8/16/2019 9:16:27 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDp10.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

100% PLANS ADEQUATE  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

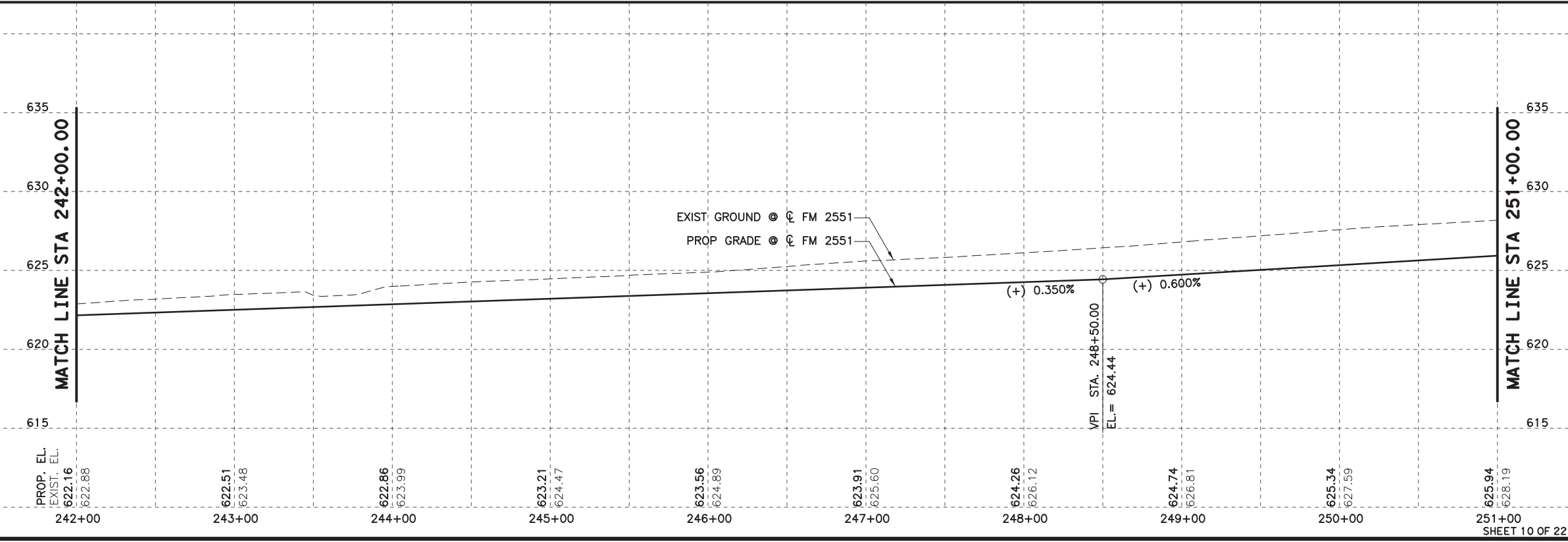
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

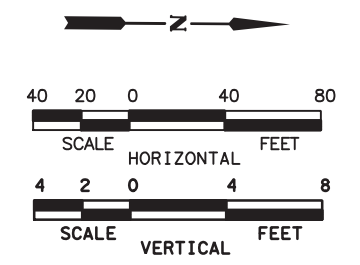
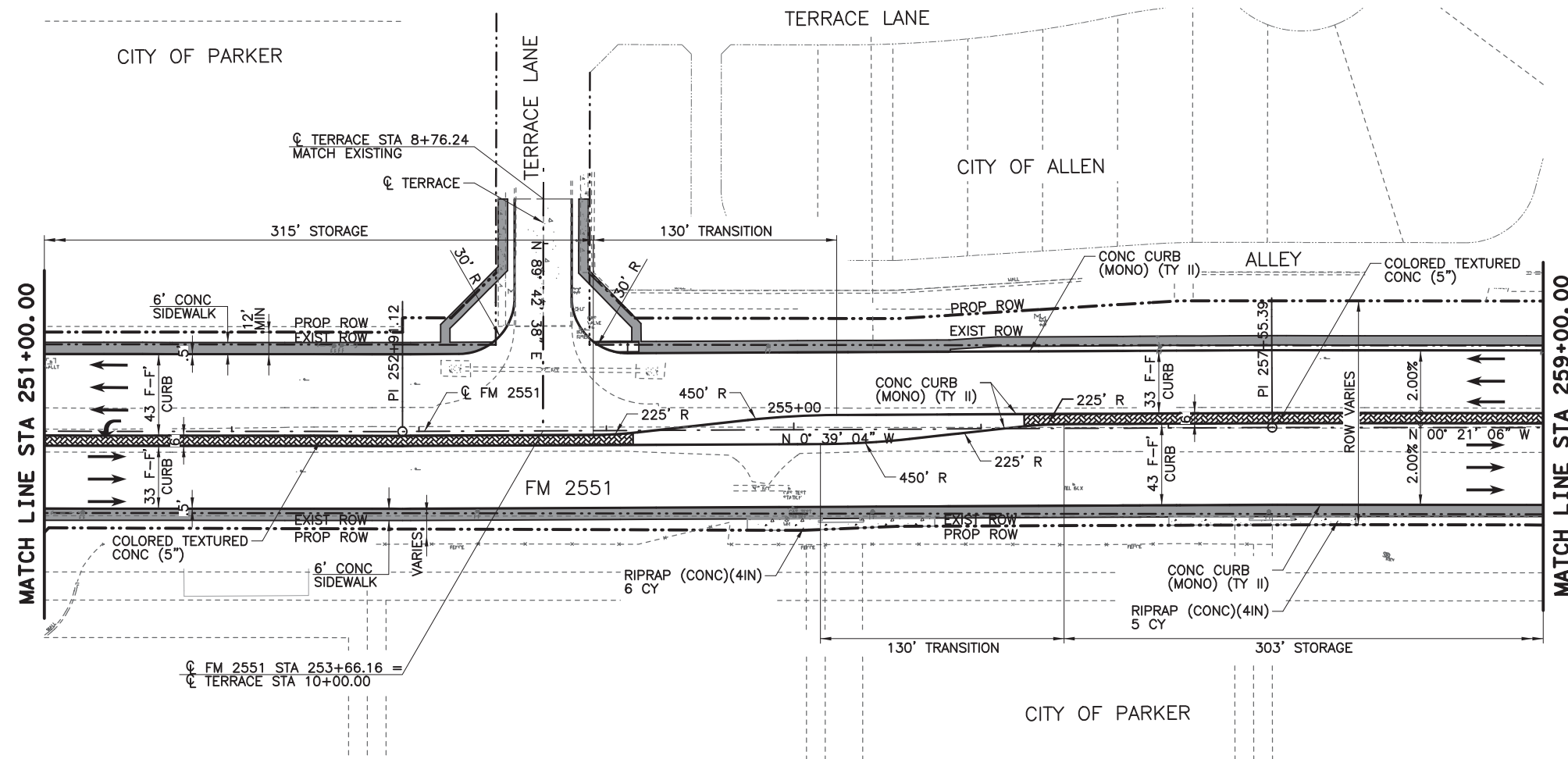
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 242+00.00 TO STA 251+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 133		



8/16/2019 9:16:33 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp11.dgn



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10
- CL2551-X HORIZ CURVE NO
- DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

**NOTES:**

1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741

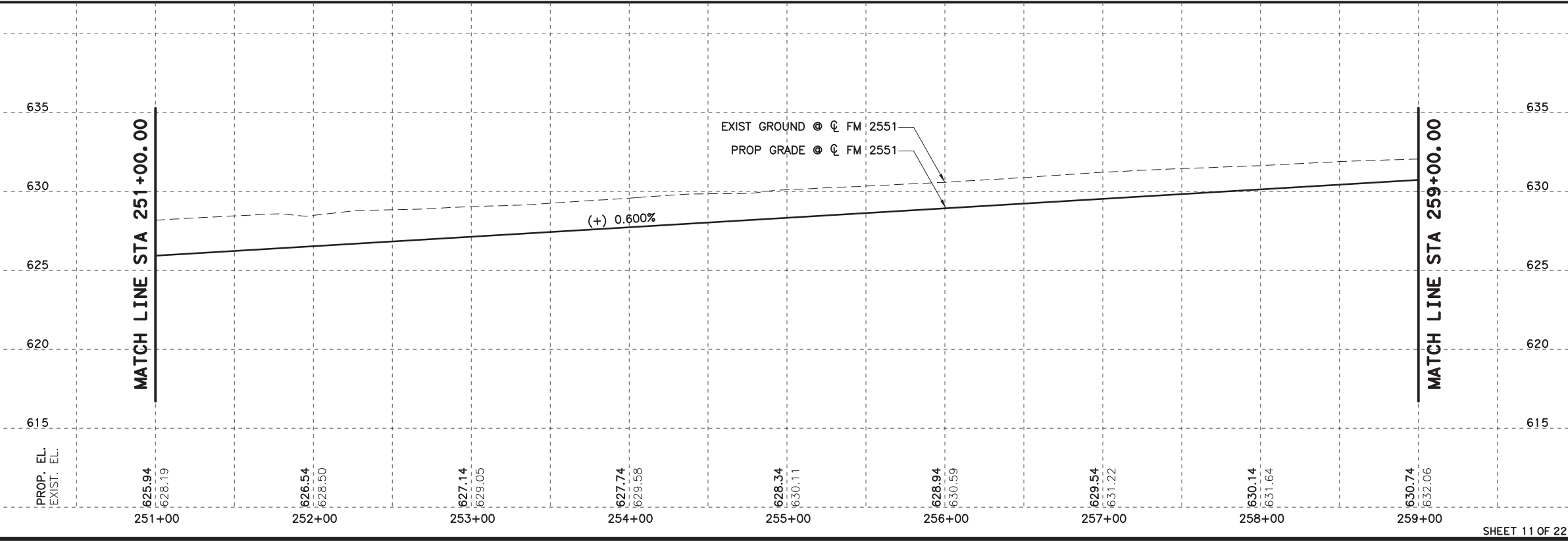


FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

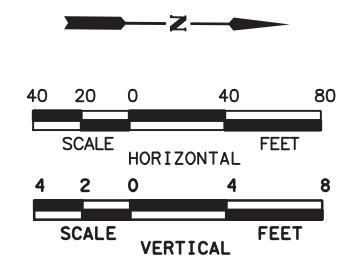
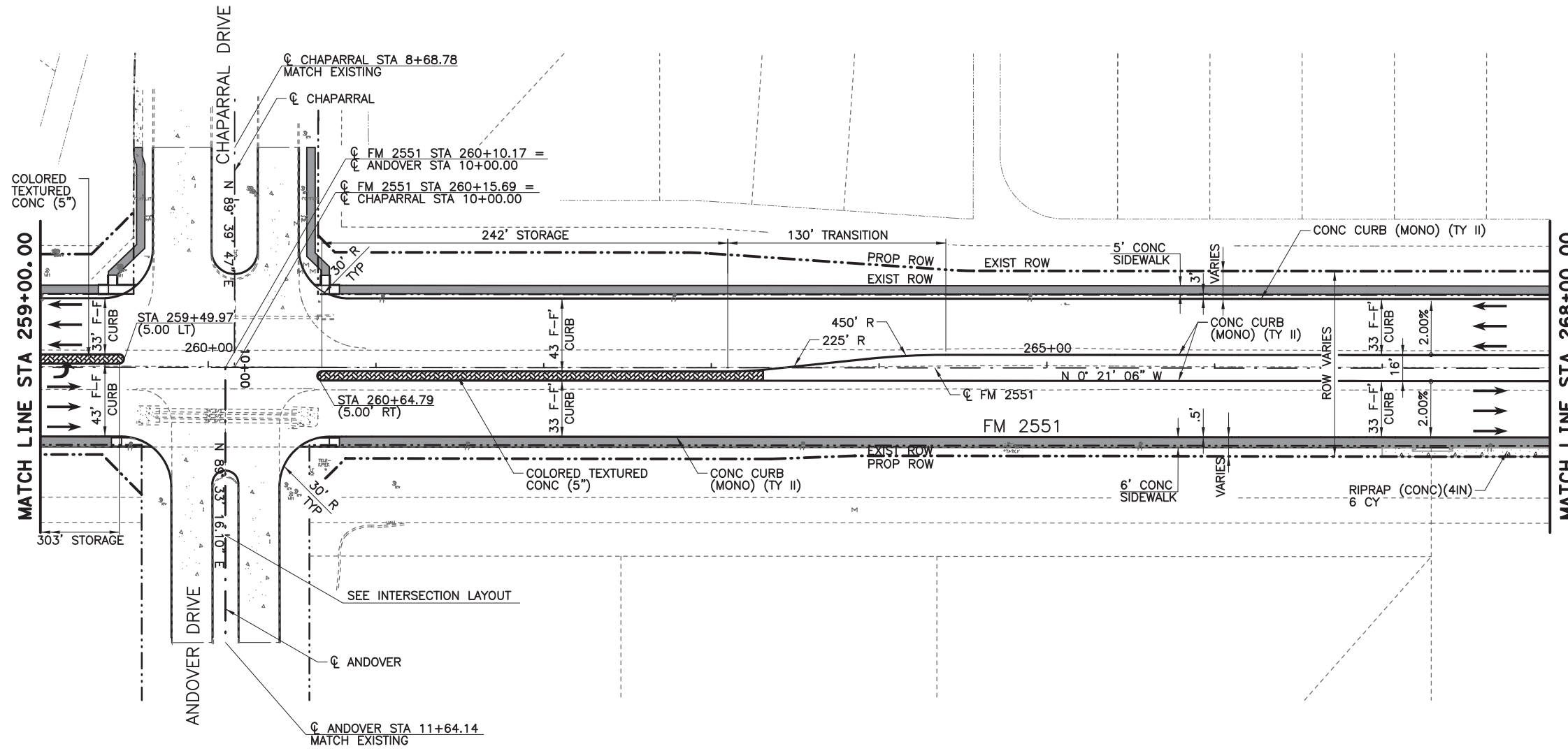
**PLAN AND PROFILE**

STA 251+00.00 TO STA 259+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 134		



8/16/2019 9:16:38 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp12.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

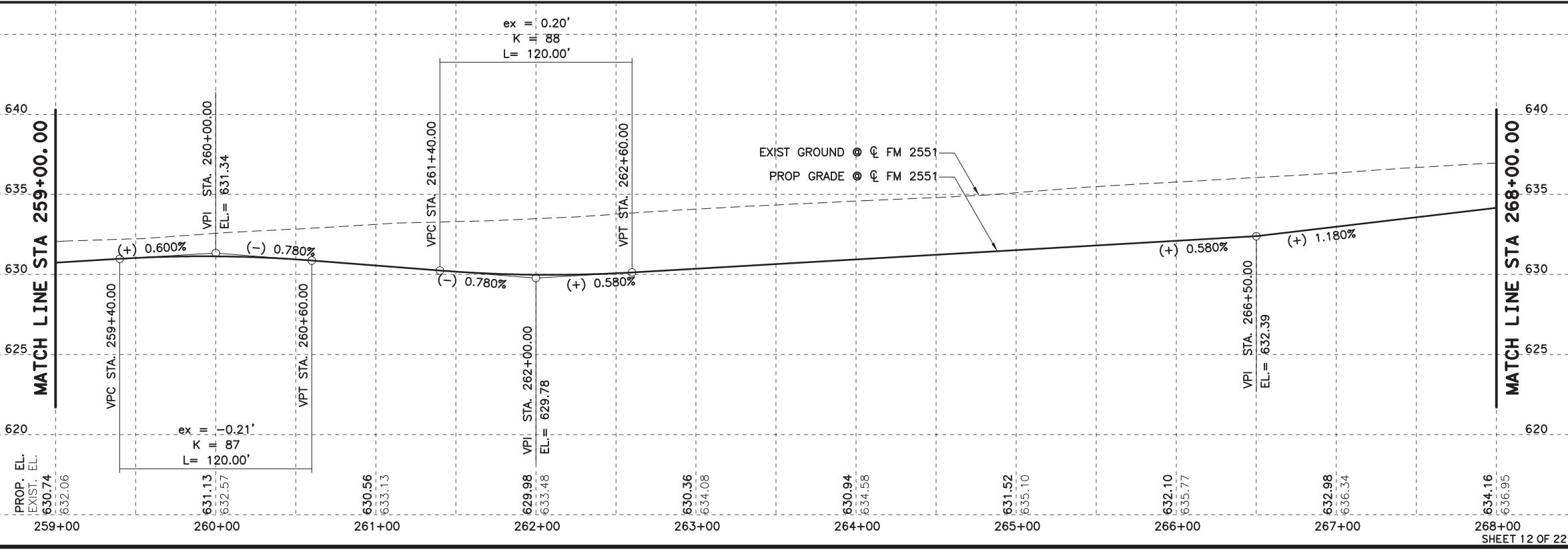
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

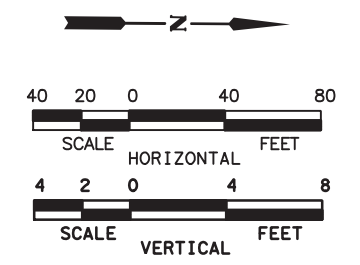
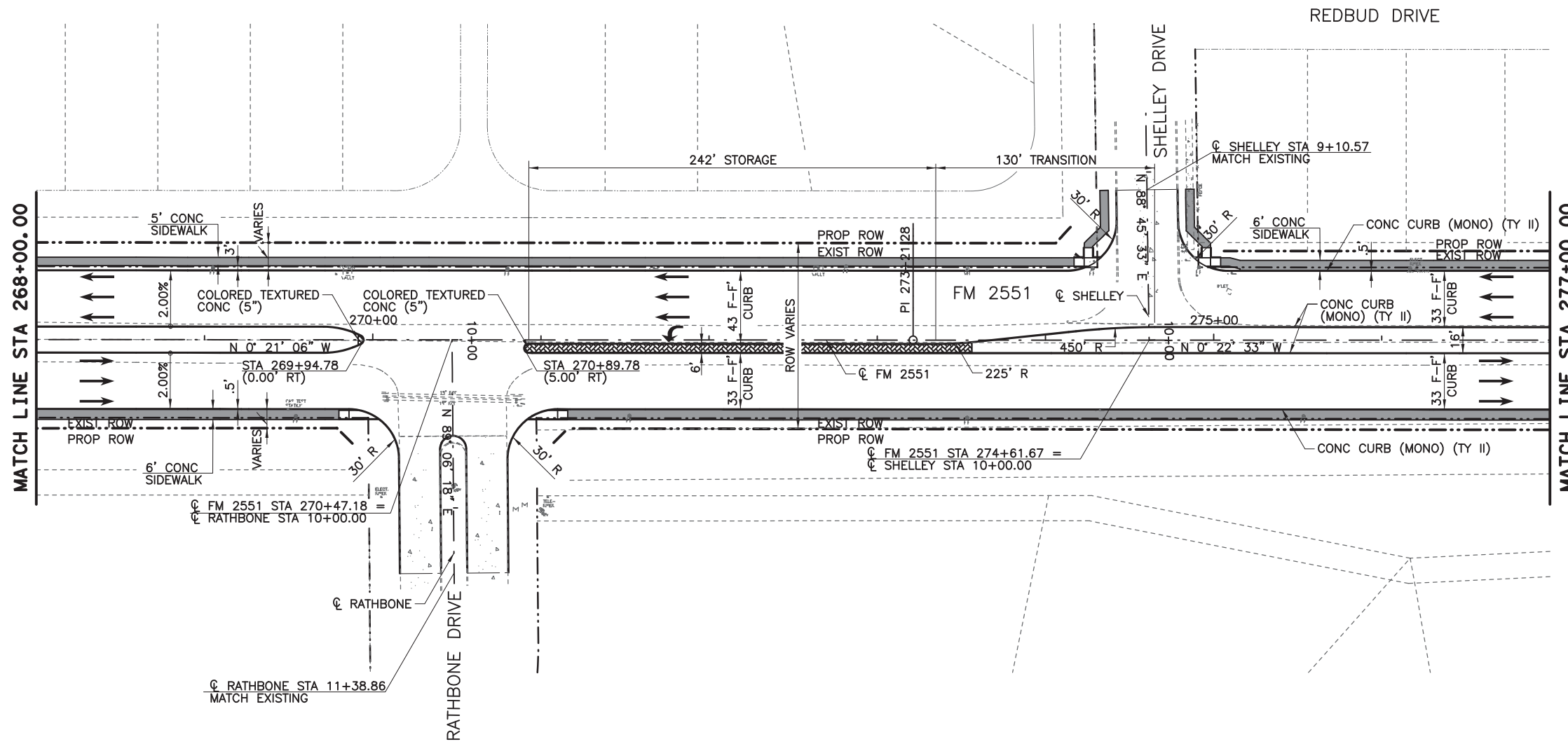
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
STA 259+00.00 TO STA 268+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 135		SHEET NO. 135



8/16/2019 9:16:44 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDP13.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

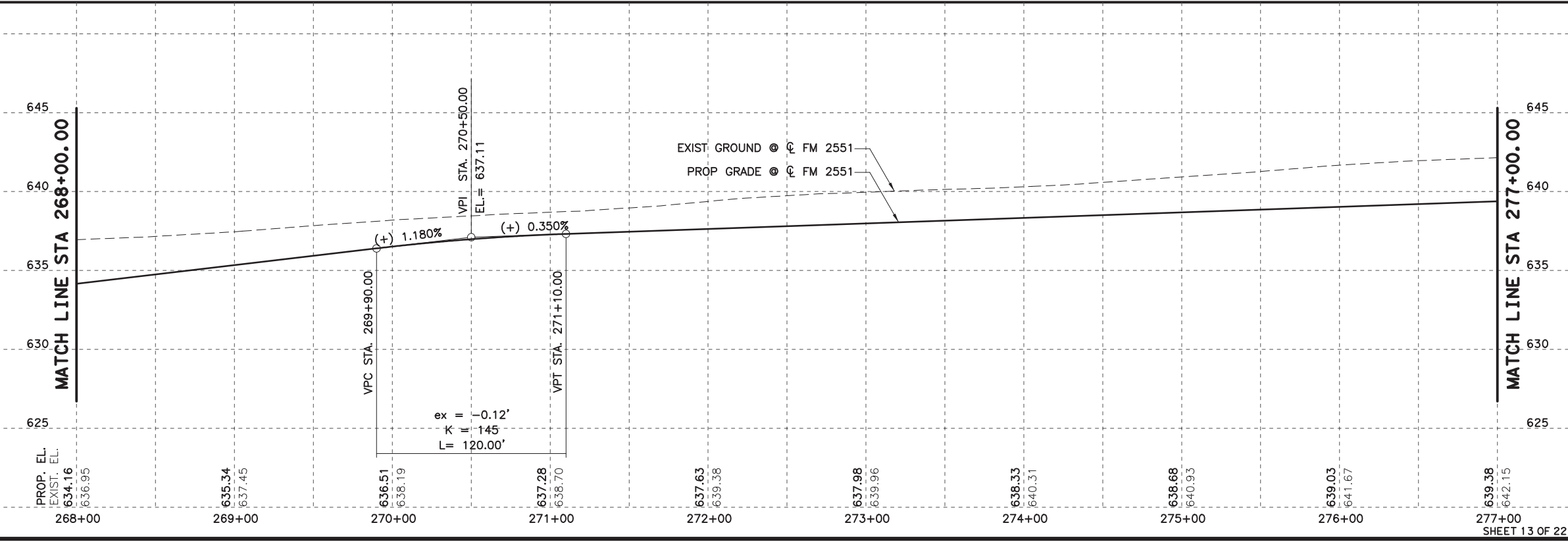
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

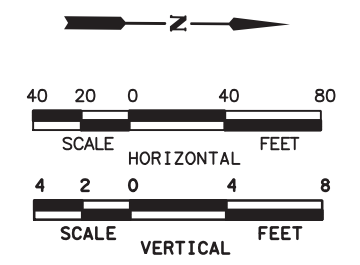
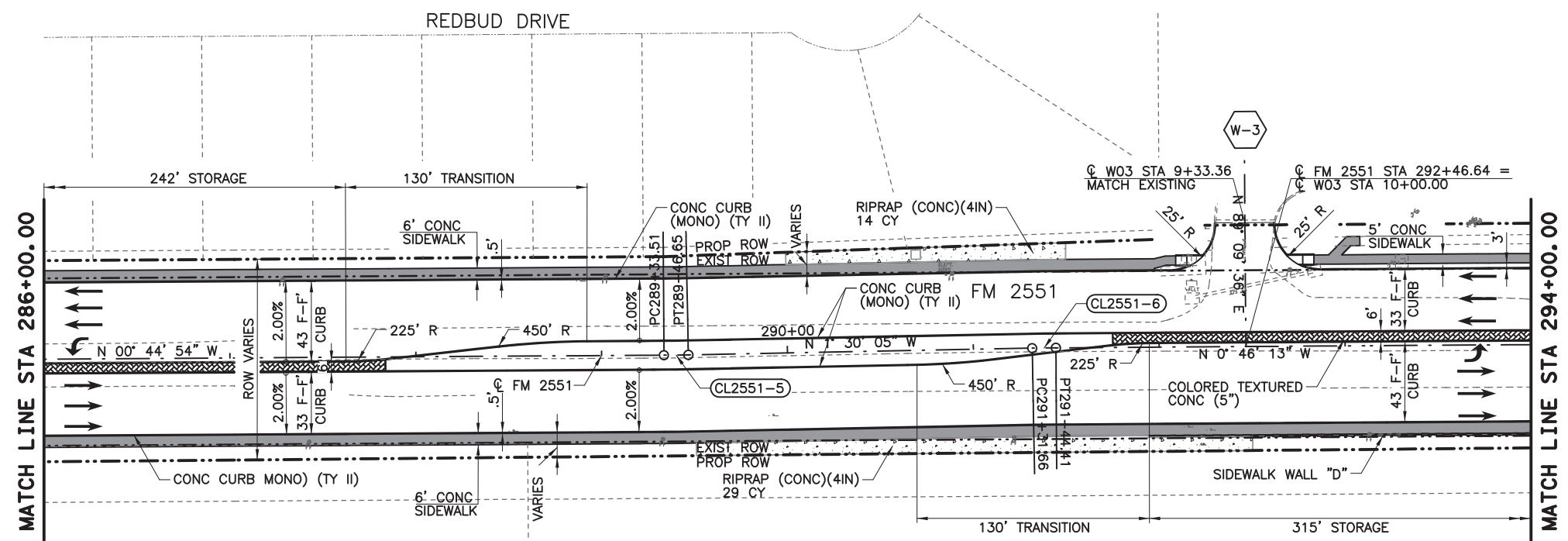
**PLAN AND PROFILE**  
STA 268+00.00 TO STA 277+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 136			





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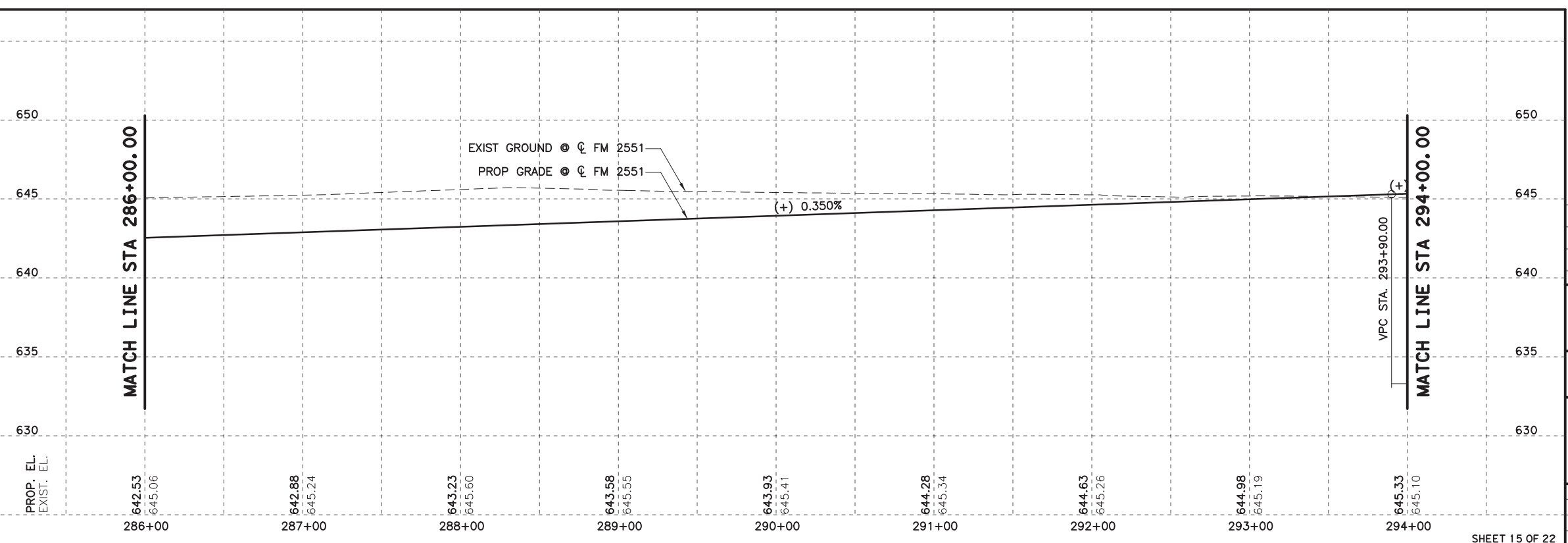


- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**CL2551-5**  
 PI STATION = 289+40.08  
 NORTHING = 7,083,477.5077  
 EASTING = 2,544,612.8030  
 DELTA = 0° 45' 11" (LT)  
 RADIUS = 1,000.00'  
 D = 5° 43' 46"  
 TANGENT = 6.57'  
 LENGTH = 13.14'

**CL2551-6**  
 PI STATION = 291+38.04  
 NORTHING = 7,083,675.3983  
 EASTING = 2,544,607.6165  
 DELTA = 0° 43' 51" (RT)  
 RADIUS = 1,000.00'  
 D = 5° 43' 46"  
 TANGENT = 6.38'  
 LENGTH = 12.76'



100% PLANS ADEQUATE  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO. \_\_\_\_\_ REVISION \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

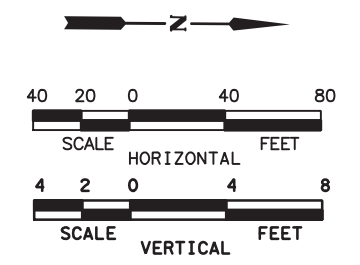
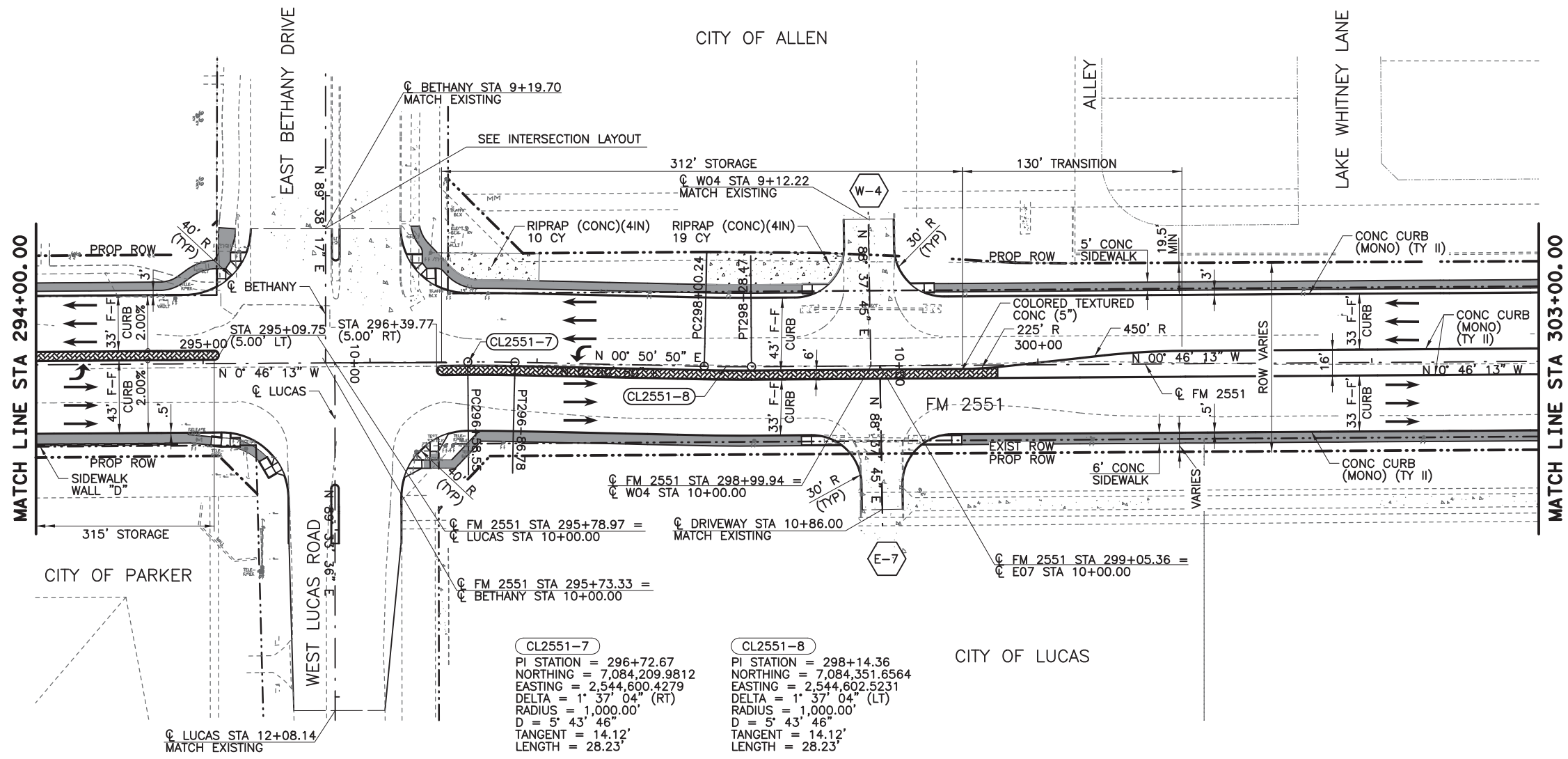
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 286+00.00 TO STA 294+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 138		

8/16/2019 9:17:00 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDp16.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

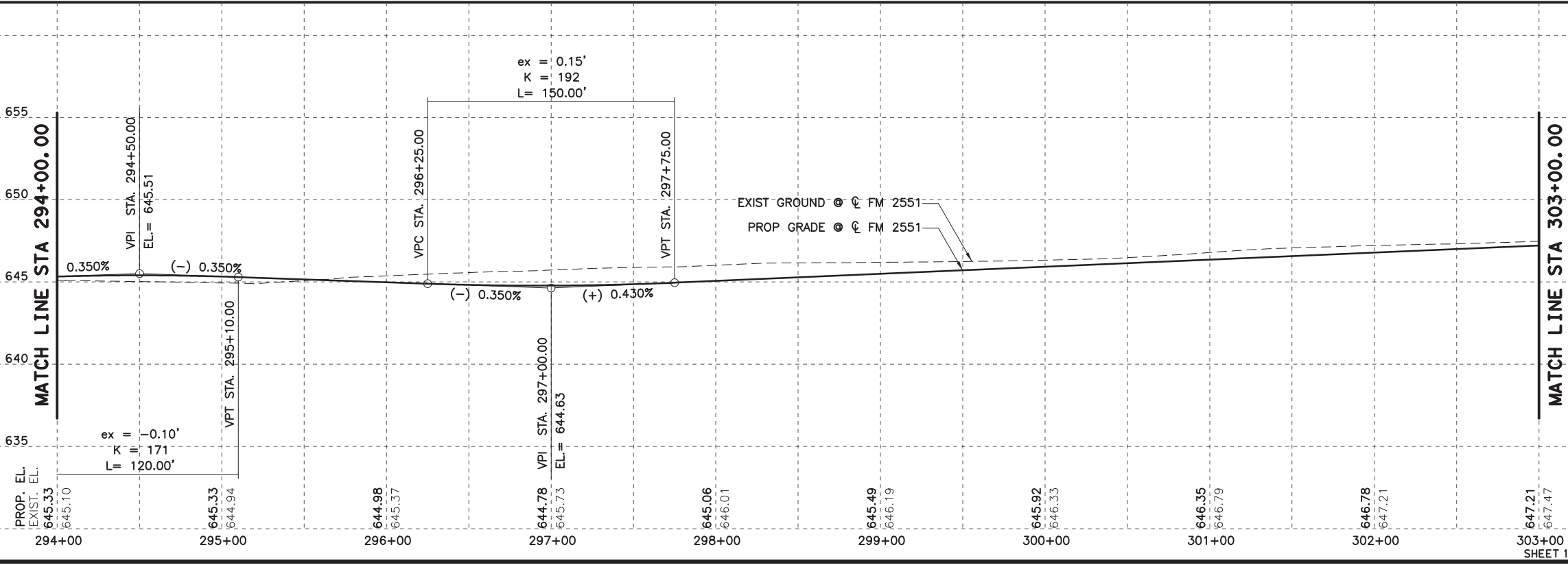
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

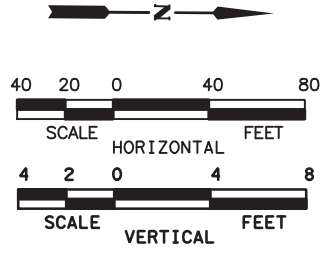
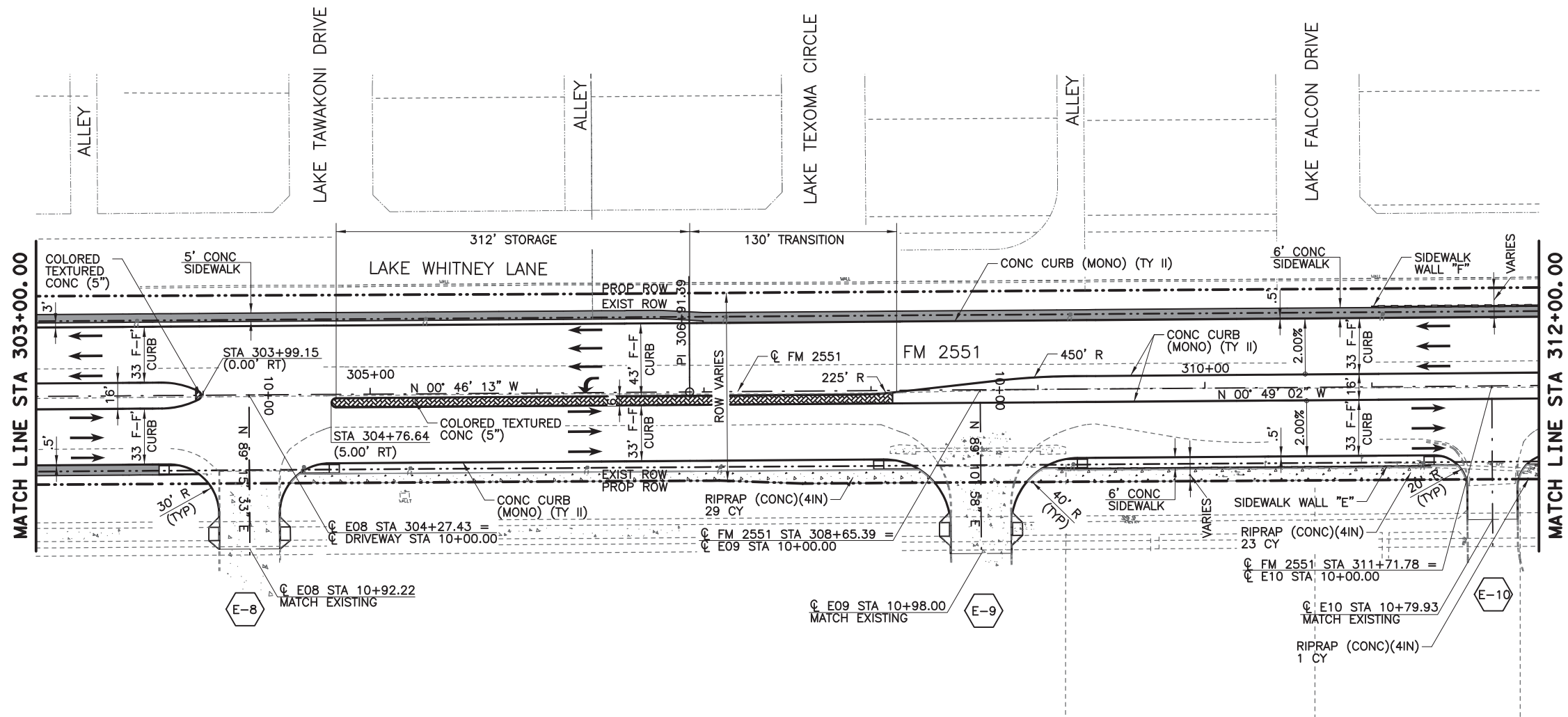
**PLAN AND PROFILE**  
 STA 294+00.00 TO STA 303+00.00

Designed: CPY	FED. PROJ. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 139		SHEET NO. 139





8/16/2019 9:17:05 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp17.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

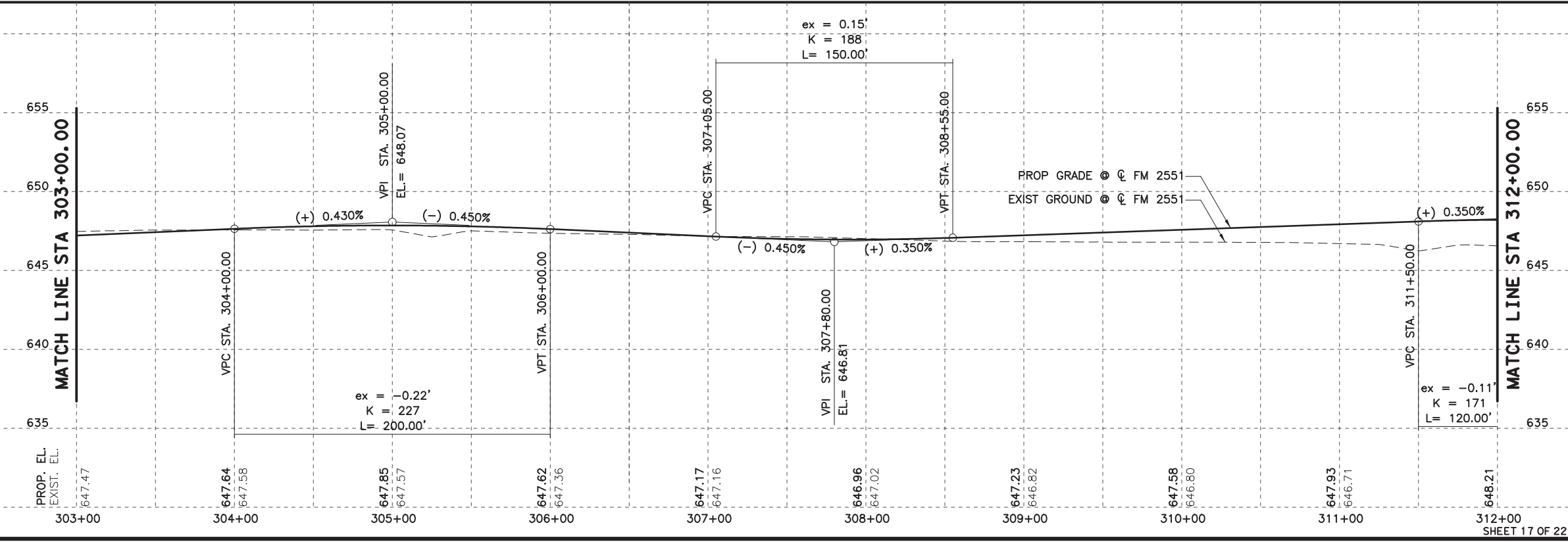
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

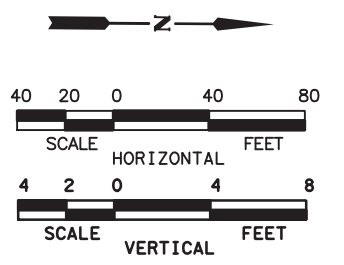
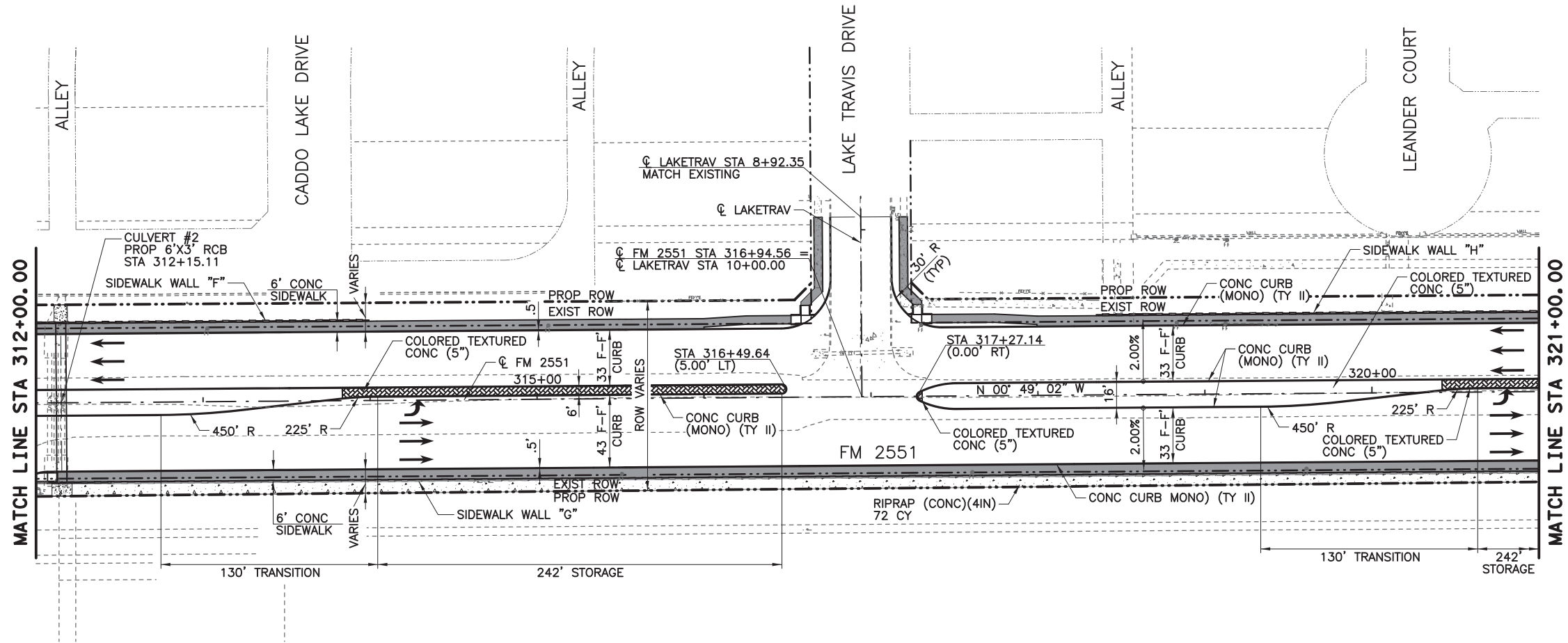
**Texas Department of Transportation**  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
STA 303+00.00 TO STA 312+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 140		



8/16/2019 9:17:10 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDP18.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

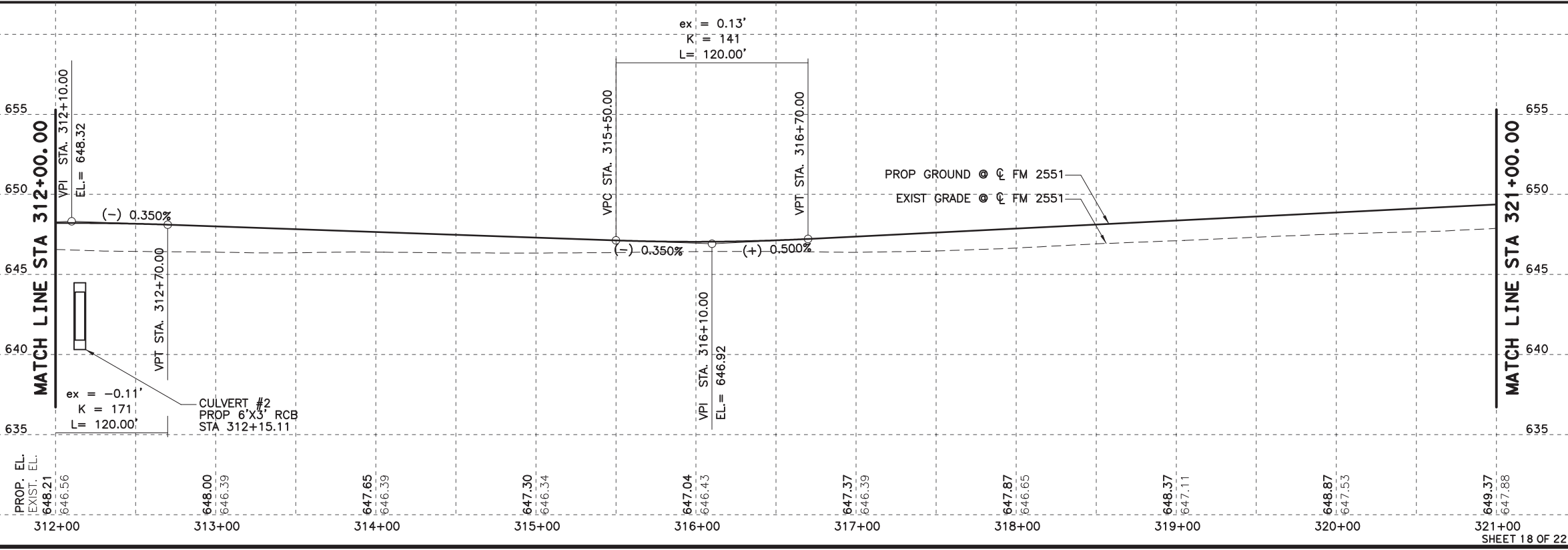
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

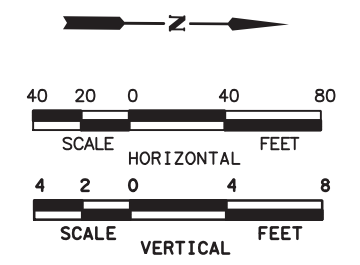
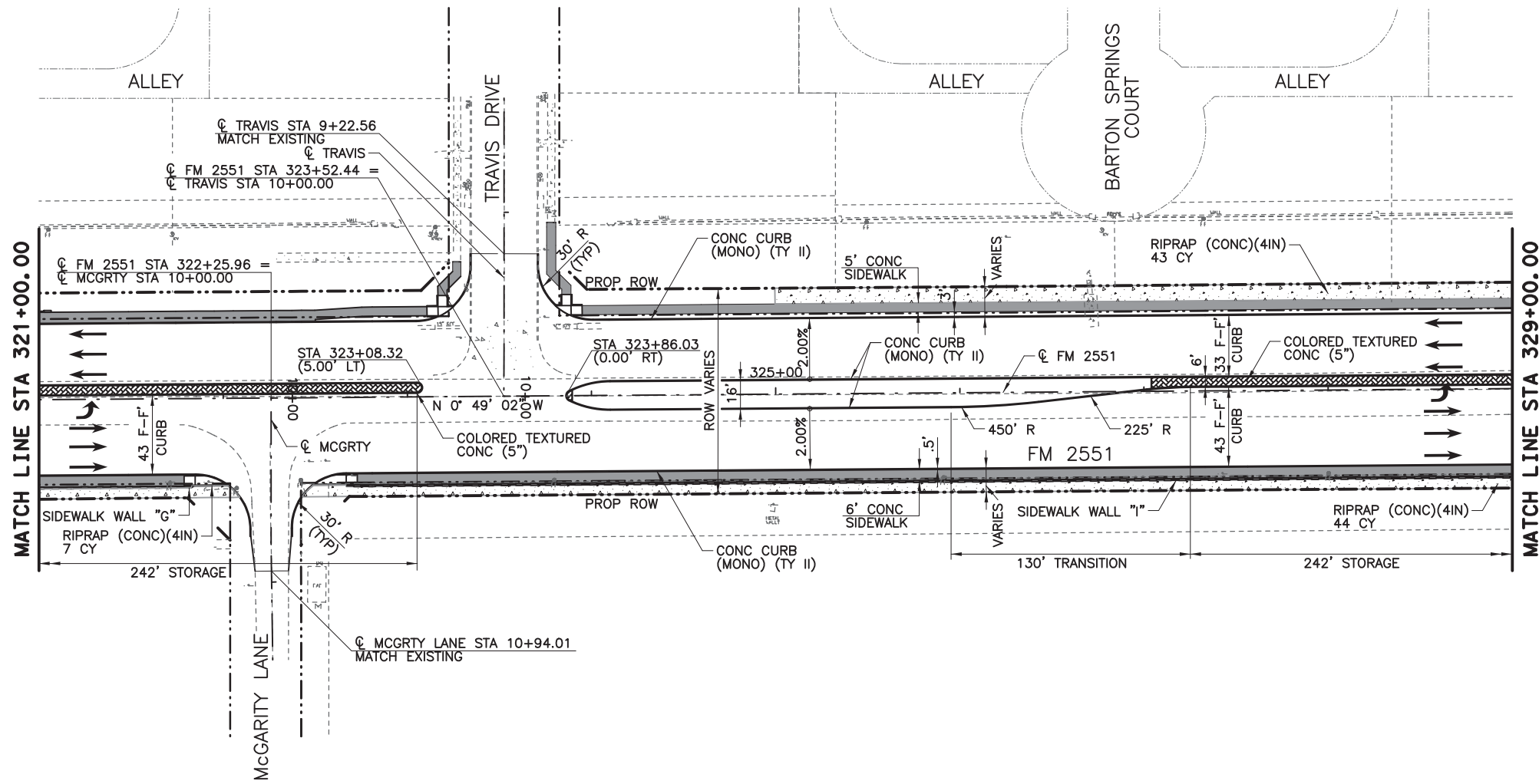
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
**FM 2551 (MURPHY ROAD)**

**PLAN AND PROFILE**  
**STA 312+00.00 TO STA 321+00.00**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 141		SHEET NO. 141



8/16/2019 9:17:16 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp19.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

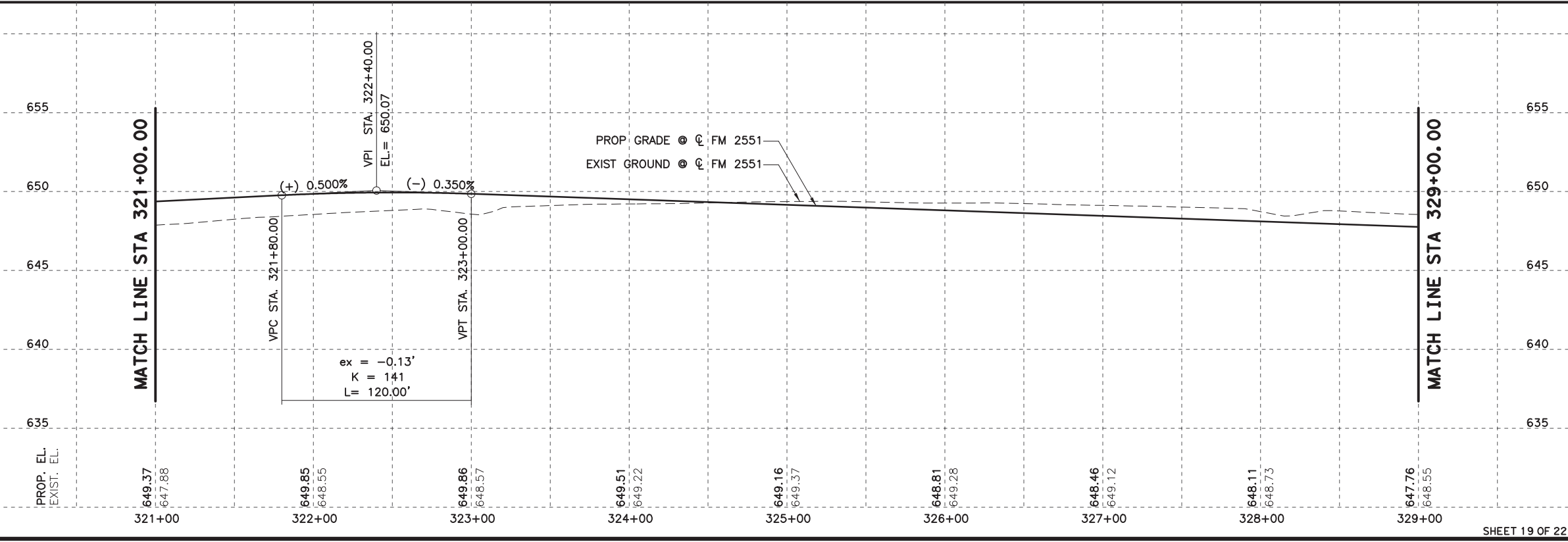
NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

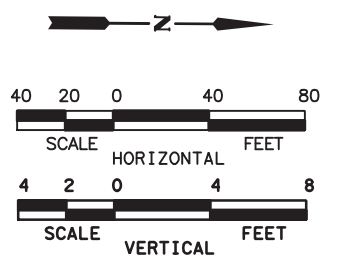
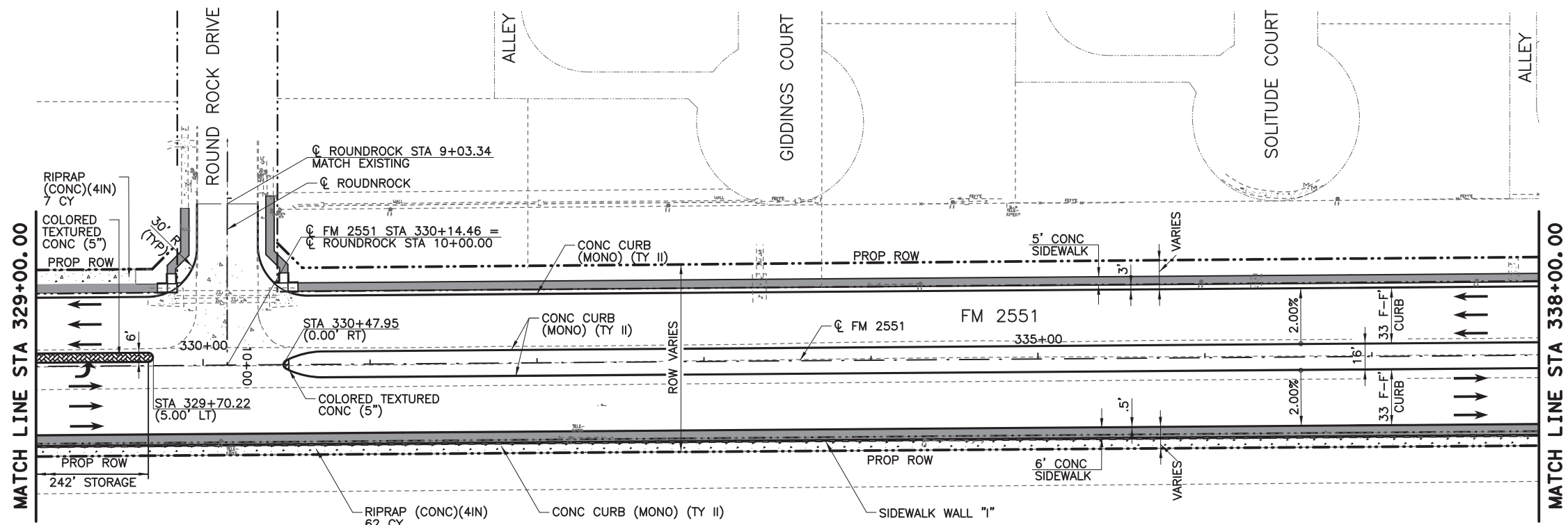
**Texas Department of Transportation**  
 FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 321+00.00 TO STA 329+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 142		



8/16/2019 9:17:21 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDpp20.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - HORIZ CURVE NO
  - DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM CL 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

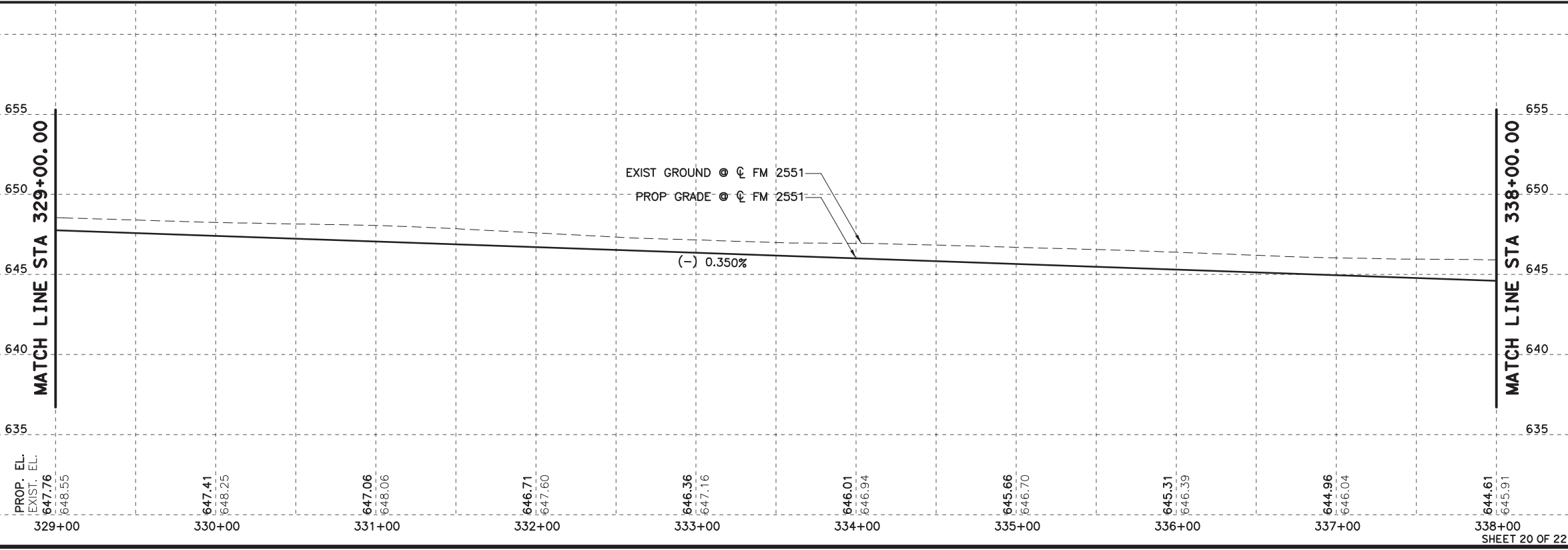
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

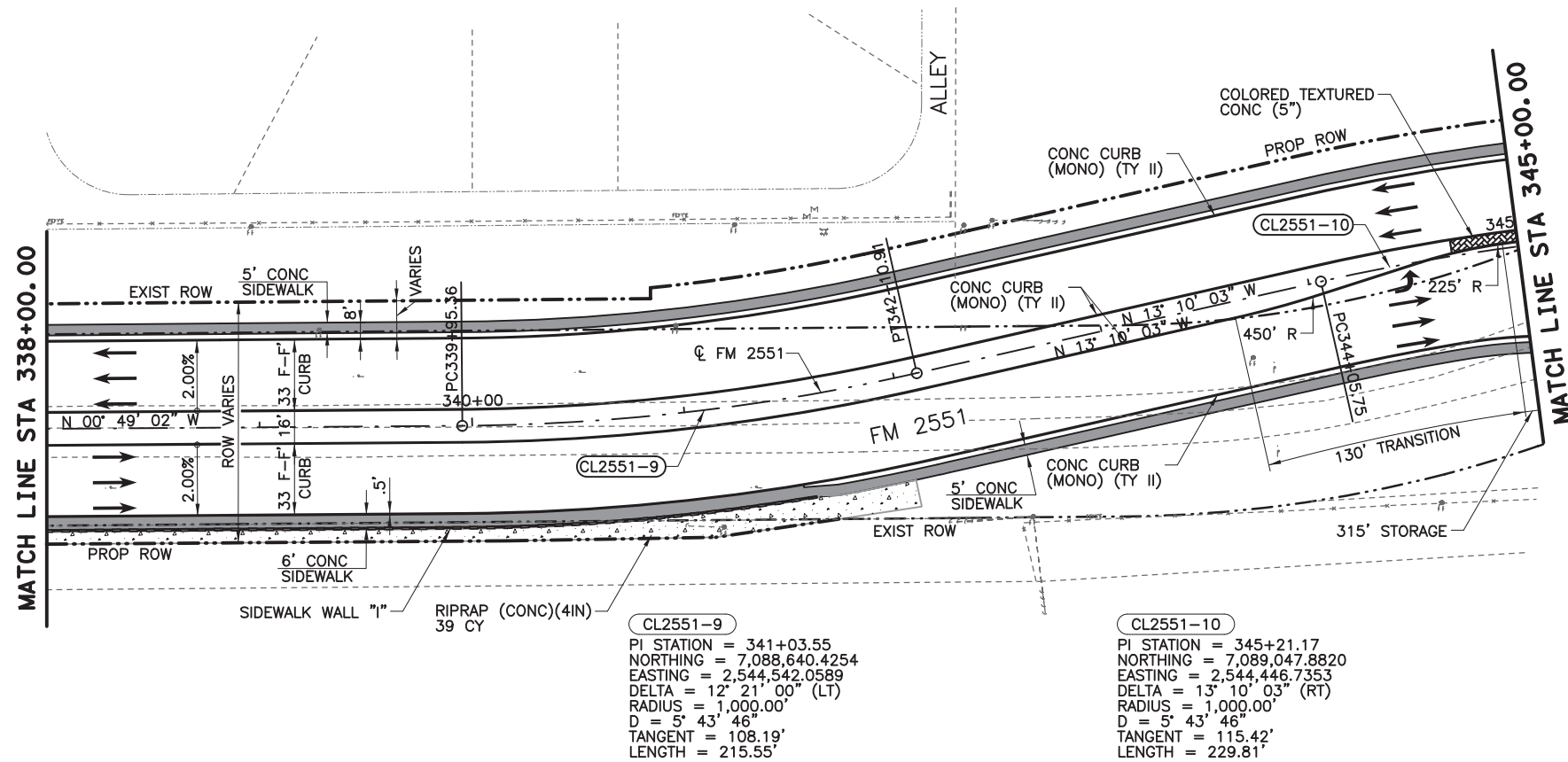
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
STA 329+00.00 TO STA 338+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 143		SHEET NO. 143

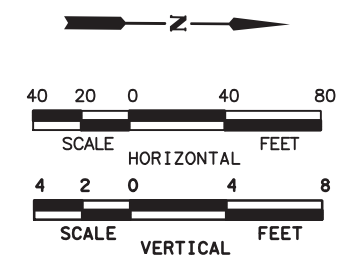


8/16/2019 9:17:27 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp21.dgn



**CL2551-9**  
 PI STATION = 341+03.55  
 NORTHING = 7,088,640.4254  
 EASTING = 2,544,542.0589  
 DELTA = 12° 21' 00" (LT)  
 RADIUS = 1,000.00'  
 D = 5° 43' 46"  
 TANGENT = 108.19'  
 LENGTH = 215.55'

**CL2551-10**  
 PI STATION = 345+21.17  
 NORTHING = 7,089,047.8820  
 EASTING = 2,544,446.7353  
 DELTA = 13° 10' 03" (RT)  
 RADIUS = 1,000.00'  
 D = 5° 43' 46"  
 TANGENT = 115.42'  
 LENGTH = 229.81'



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

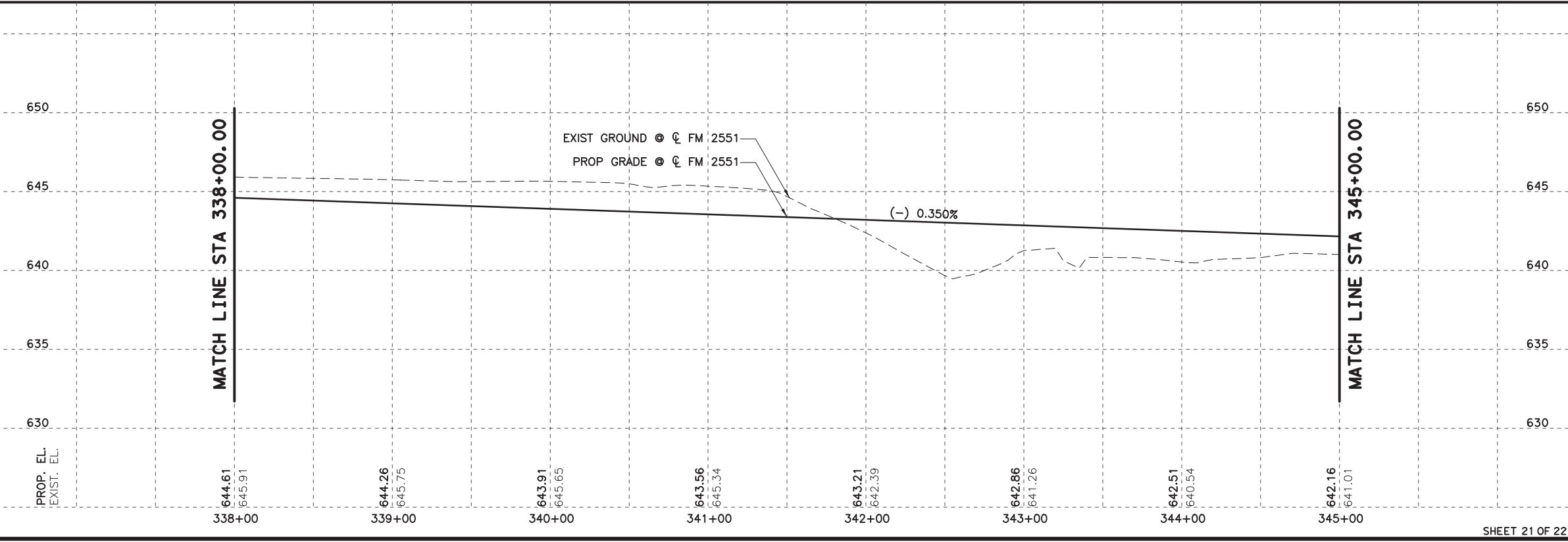
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

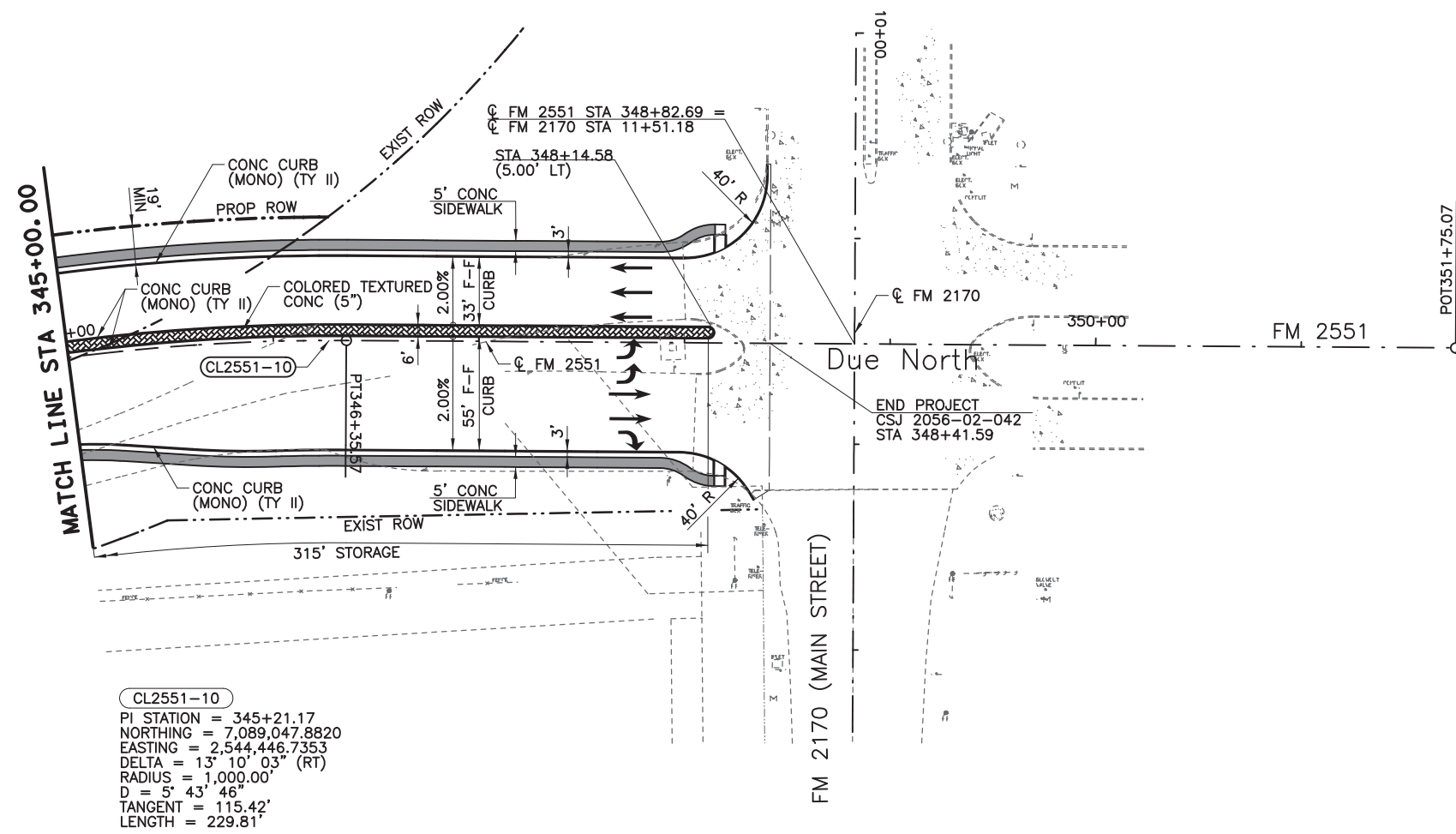
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 338+00.00 TO STA 345+00.00

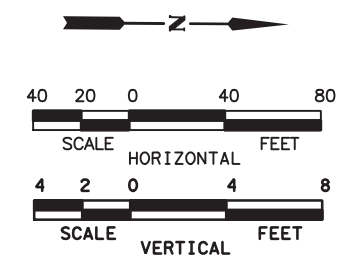
Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 144		SHEET NO. 144



8/16/2019 9:17:33 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdp22.dgn



CL2551-10  
 PI STATION = 345+21.17  
 NORTHING = 7,089,047.8820  
 EASTING = 2,544,446.7353  
 DELTA = 13° 10' 03" (RT)  
 RADIUS = 1,000.00'  
 D = 5' 43' 46"  
 TANGENT = 115.42'  
 LENGTH = 229.81'



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10
  - CL2551-X HORIZ CURVE NO
  - X-X DRIVEWAY NO (SEE DRIVEWAY DETAIL SHEET)

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DRIVEWAY DETAILS SHEET FOR ADDITIONAL DRIVEWAY INFORMATION.
  5. SEE INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION.
  6. SEE WALL LAYOUTS FOR ADDITIONAL WALL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

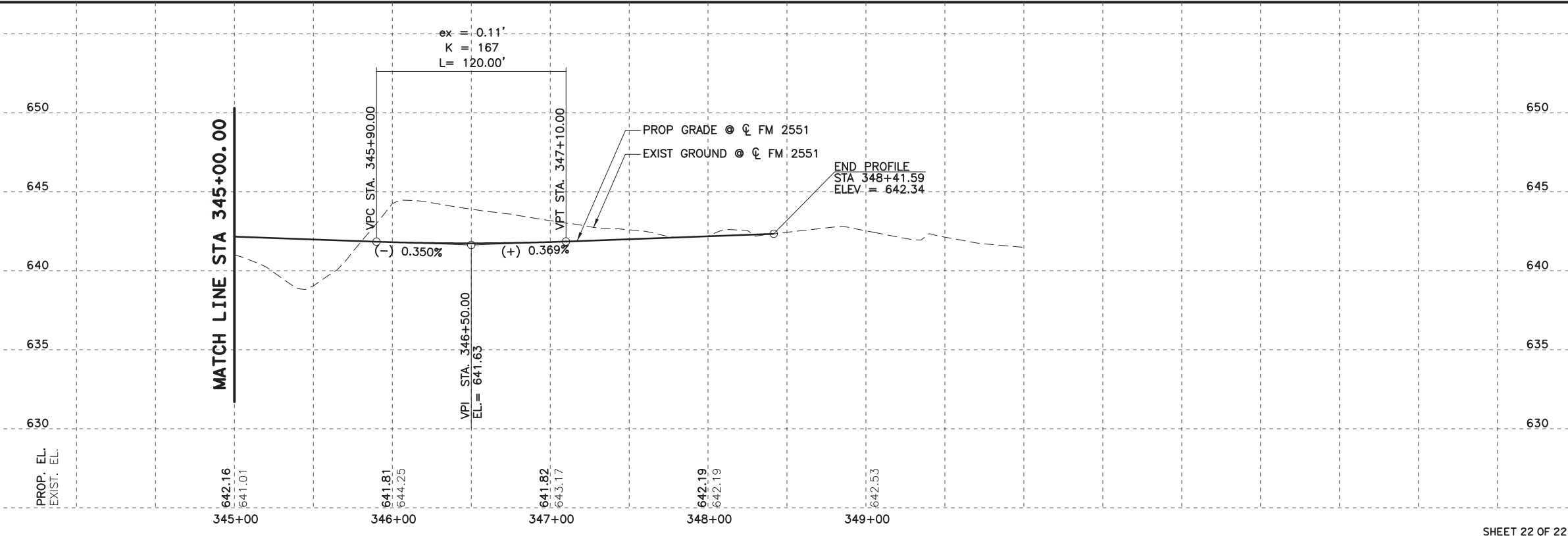
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

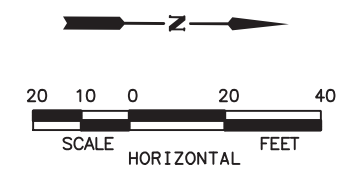
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**PLAN AND PROFILE**  
 STA 345+00.00 TO END PROJECT

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO.	SHEET NO.	SHEET NO. 145



8/16/2019 9:17:39 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD101.dgn



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10

**NOTES:**

1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.



Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



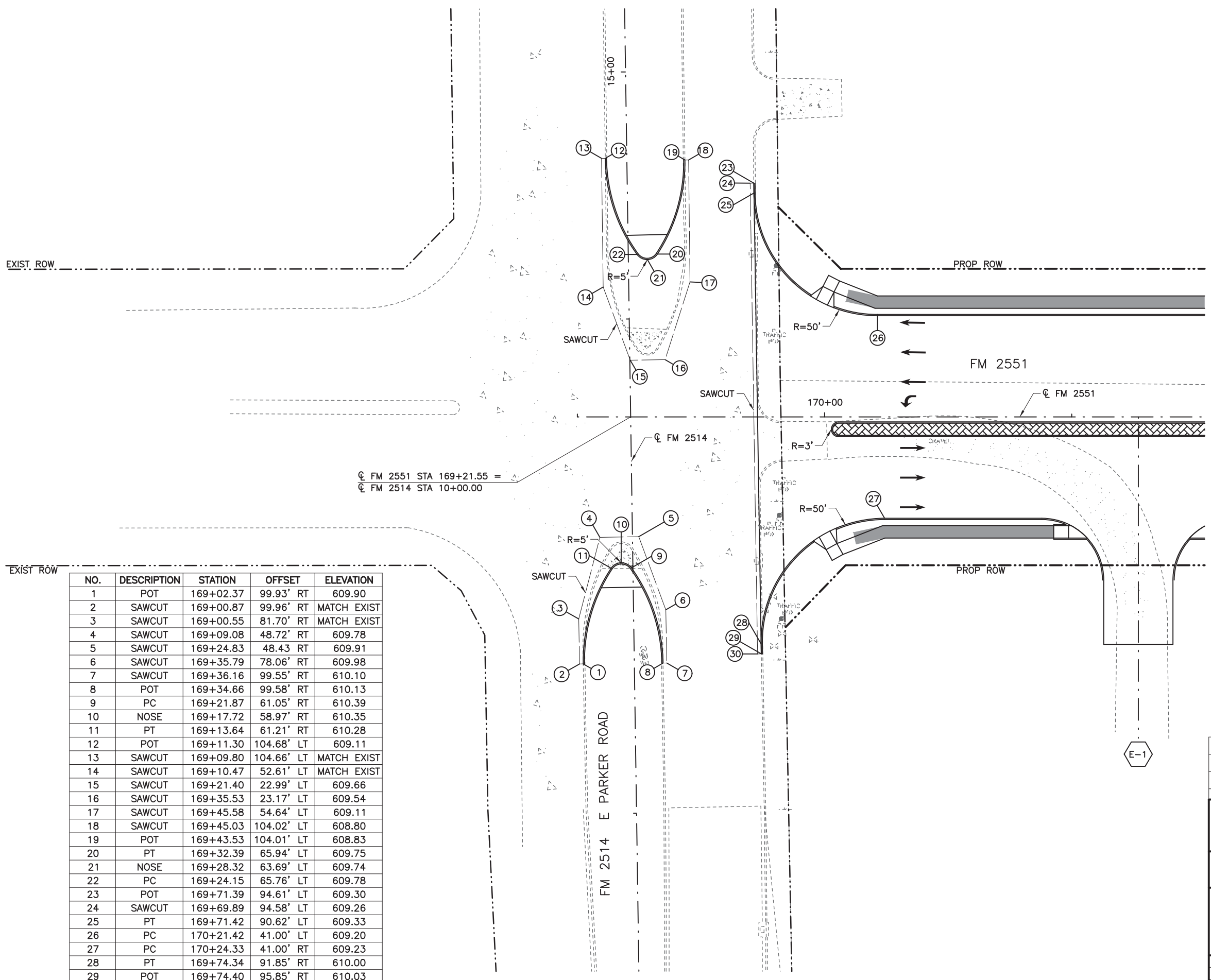
TEXAS REGISTERED ENGINEERING FIRM, F-1741



FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INTERSECTION LAYOUT**  
FM 2514/EAST PARKER ROAD

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 146		



$\phi$  FM 2551 STA 169+21.55 =  
 $\phi$  FM 2514 STA 10+00.00

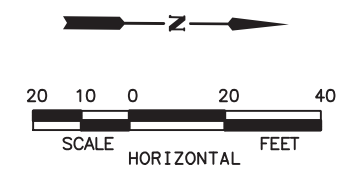
NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	POT	169+02.37	99.93' RT	609.90
2	SAWCUT	169+00.87	99.96' RT	MATCH EXIST
3	SAWCUT	169+00.55	81.70' RT	MATCH EXIST
4	SAWCUT	169+09.08	48.72' RT	609.78
5	SAWCUT	169+24.83	48.43 RT	609.91
6	SAWCUT	169+35.79	78.06' RT	609.98
7	SAWCUT	169+36.16	99.55' RT	610.10
8	POT	169+34.66	99.58' RT	610.13
9	PC	169+21.87	61.05' RT	610.39
10	NOSE	169+17.72	58.97' RT	610.35
11	PT	169+13.64	61.21' RT	610.28
12	POT	169+11.30	104.68' LT	609.11
13	SAWCUT	169+09.80	104.66' LT	MATCH EXIST
14	SAWCUT	169+10.47	52.61' LT	MATCH EXIST
15	SAWCUT	169+21.40	22.99' LT	609.66
16	SAWCUT	169+35.53	23.17' LT	609.54
17	SAWCUT	169+45.58	54.64' LT	609.11
18	SAWCUT	169+45.03	104.02' LT	608.80
19	POT	169+43.53	104.01' LT	608.83
20	PT	169+32.39	65.94' LT	609.75
21	NOSE	169+28.32	63.69' LT	609.74
22	PC	169+24.15	65.76' LT	609.78
23	POT	169+71.39	94.61' LT	609.30
24	SAWCUT	169+69.89	94.58' LT	609.26
25	PT	169+71.42	90.62' LT	609.33
26	PC	170+21.42	41.00' LT	609.20
27	PC	170+24.33	41.00' RT	609.23
28	PT	169+74.34	91.85' RT	610.00
29	POT	169+74.40	95.85' RT	610.03
30	SAWCUT	169+72.90	95.87 RT	610.02

FM 2514 E PARKER ROAD

FM 2551

E-1

8/16/2019 9:17:45 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD1102.dgn



**LEGEND**

	CONC SIDEWALKS 4"
	COLORLED TEXTURED CONC 5"
	PROPOSED LANE
	EXISTING LANE
	CURB RAMP TYPE 1
	CURB RAMP TYPE 7
	CURB RAMP TYPE 10

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM  $\text{CL}$  FM 2551 UNLESS OTHERWISE SPECIFIED.
  4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
  5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	PC	205+12.86	41.00' LT	627.47
2	PT	204+71.40	71.90' LT	626.39
3	POT	204+71.34	75.90' LT	626.31
4	POT	204+97.31	75.85' LT	626.58
5	PT	204+97.26	71.84' LT	626.65
6	PC	205+29.56	41.00' LT	627.56
7	PC	205+23.68	41.00' RT	627.64
8	PT	204+95.67	70.27' RT	626.89
9	POT	204+95.41	97.99' RT	626.91
10	POT	204+73.55	98.01' RT	626.81
11	PT	204+73.24	70.22' RT	626.79
12	PC	204+45.23	41.00' RT	627.98

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

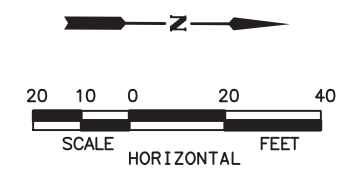
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INTERSECTION LAYOUT**  
RAVENSTHORPE DRIVE

Designed: CPY	FED. DIST. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 147



8/16/2019 9:17:51 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD1103.dgn



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10

**NOTES:**

1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

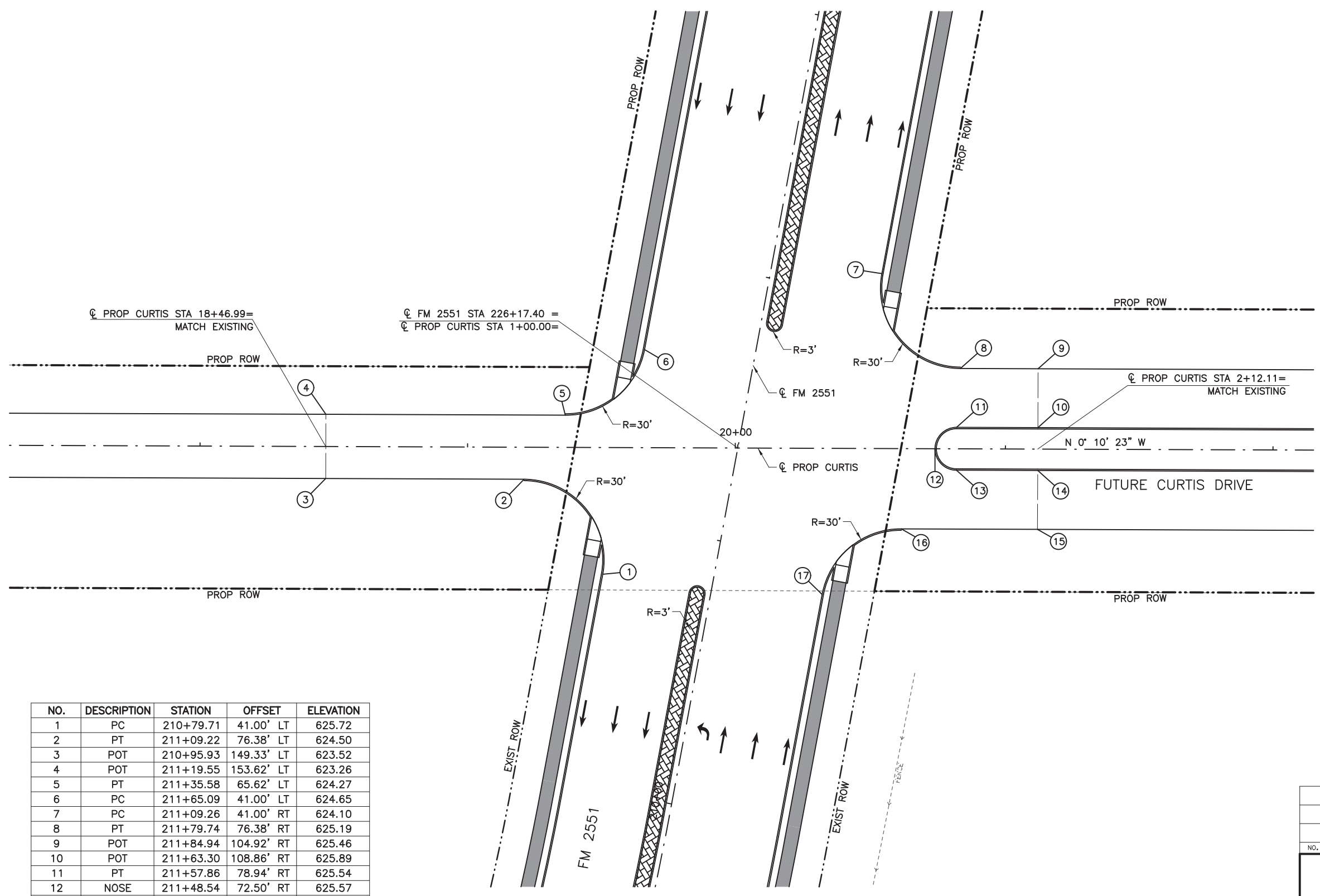
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

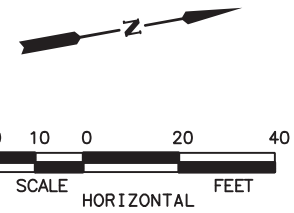
**INTERSECTION LAYOUT**  
 FUTURE CURTIS DRIVE

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 148

NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	PC	210+79.71	41.00' LT	625.72
2	PT	211+09.22	76.38' LT	624.50
3	POT	210+95.93	149.33' LT	623.52
4	POT	211+19.55	153.62' LT	623.26
5	PT	211+35.58	65.62' LT	624.27
6	PC	211+65.09	41.00' LT	624.65
7	PC	211+09.26	41.00' RT	624.10
8	PT	211+79.74	76.38' RT	625.19
9	POT	211+84.94	104.92' RT	625.46
10	POT	211+63.30	108.86' RT	625.89
11	PT	211+57.86	78.94' RT	625.54
12	NOSE	211+48.54	72.50' RT	625.57
13	PC	211+42.11	81.81' RT	625.80
14	POT	211+47.56	111.73' RT	626.12
15	POT	211+25.91	115.67' RT	626.38
16	PT	211+16.80	65.62' RT	625.91
17	PC	210+87.28	41.00' RT	625.63



8/16/2019 9:17:57 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD1104.dgn



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10

**NOTES:**

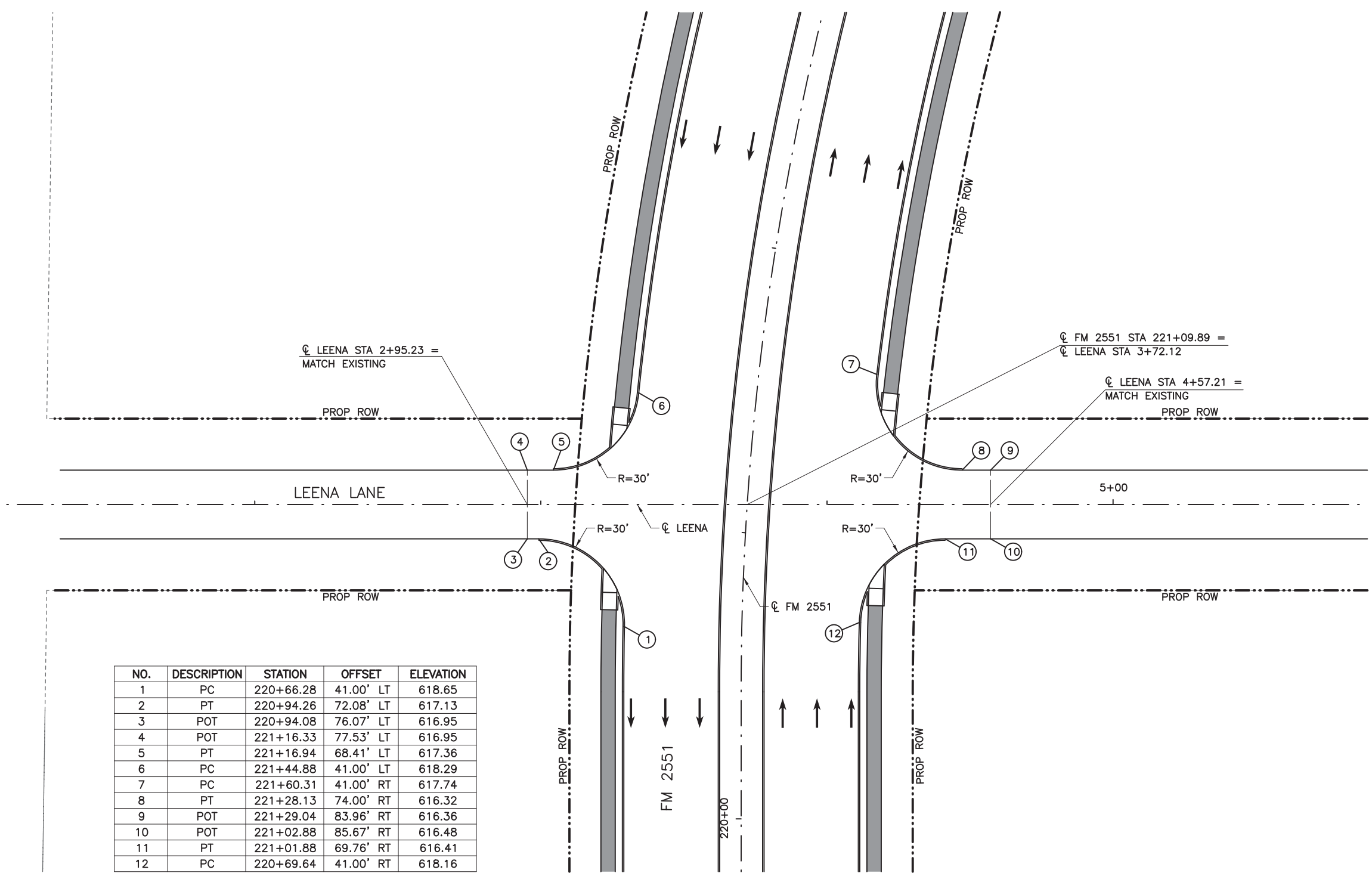
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	PC	220+66.28	41.00' LT	618.65
2	PT	220+94.26	72.08' LT	617.13
3	POT	220+94.08	76.07' LT	616.95
4	POT	221+16.33	77.53' LT	616.95
5	PT	221+16.94	68.41' LT	617.36
6	PC	221+44.88	41.00' LT	618.29
7	PC	221+60.31	41.00' RT	617.74
8	PT	221+28.13	74.00' RT	616.32
9	POT	221+29.04	83.96' RT	616.36
10	POT	221+02.88	85.67' RT	616.48
11	PT	221+01.88	69.76' RT	616.41
12	PC	220+69.64	41.00' RT	618.16



NO.	REVISION	BY	DATE

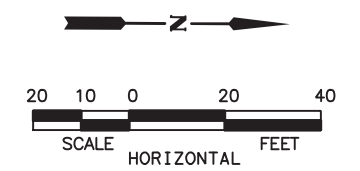
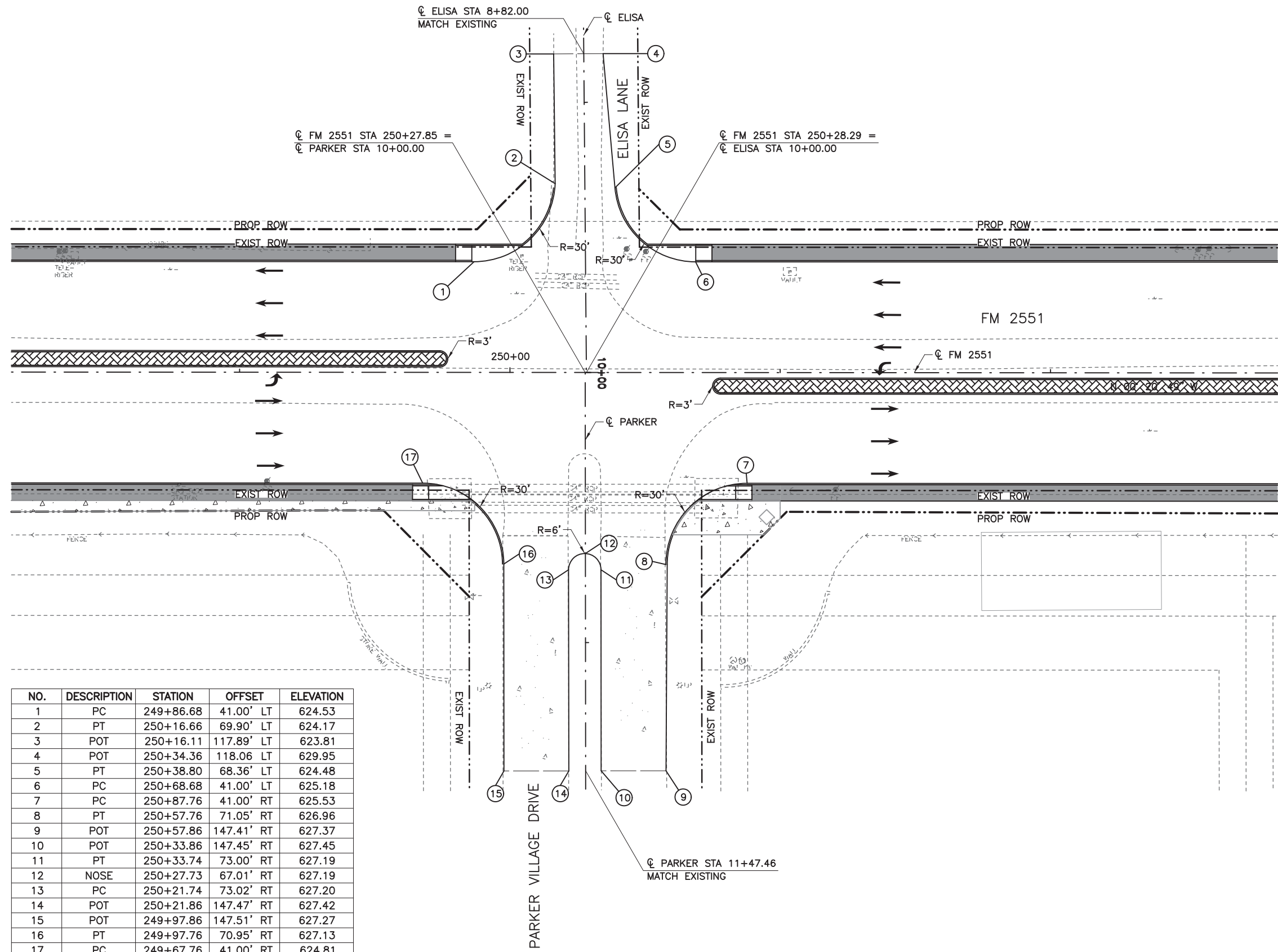
TEXAS REGISTERED ENGINEERING FIRM, F-1741

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INTERSECTION LAYOUT**  
**LEENA LANE**

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 2056	DATE 08/16/2019	SHEET NO. 149	

8/16/2019 9:18:02 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD105.dgn



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10

**NOTES:**

1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	PC	249+86.68	41.00' LT	624.53
2	PT	250+16.66	69.90' LT	624.17
3	POT	250+16.11	117.89' LT	623.81
4	POT	250+34.36	118.06 LT	629.95
5	PT	250+38.80	68.36' LT	624.48
6	PC	250+68.68	41.00' LT	625.18
7	PC	250+87.76	41.00' RT	625.53
8	PT	250+57.76	71.05' RT	626.96
9	POT	250+57.86	147.41' RT	627.37
10	POT	250+33.86	147.45' RT	627.45
11	PT	250+33.74	73.00' RT	627.19
12	NOSE	250+27.73	67.01' RT	627.19
13	PC	250+21.74	73.02' RT	627.20
14	POT	250+21.86	147.47' RT	627.42
15	POT	249+97.86	147.51' RT	627.27
16	PT	249+97.76	70.95' RT	627.13
17	PC	249+67.76	41.00' RT	624.81

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

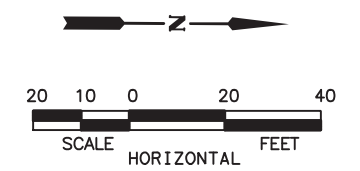
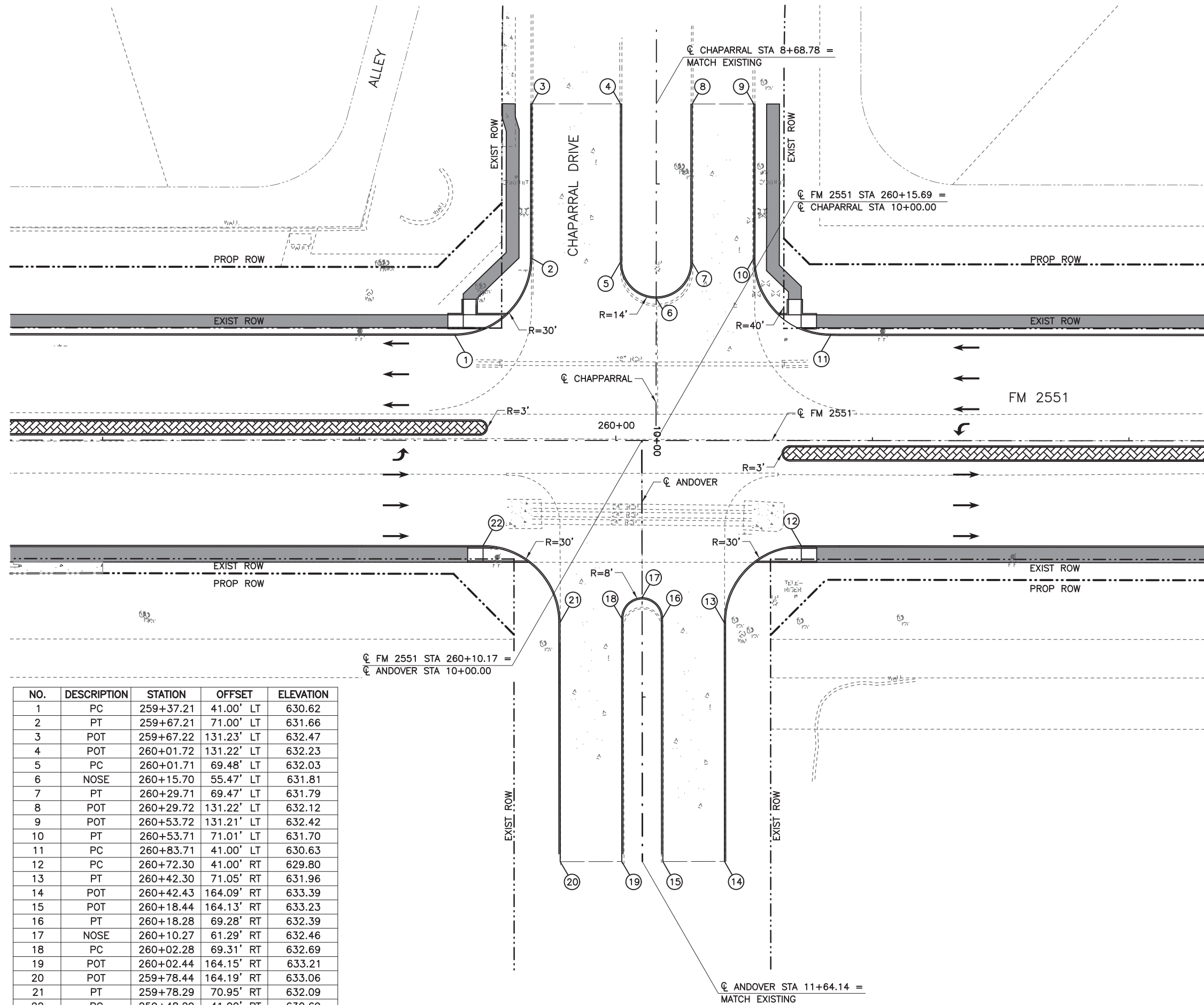
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INTERSECTION LAYOUT**  
**ELISA LANE/PARKER VILLAGE DRIVE**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 150		

8/16/2019 9:18:08 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD1106.dgn



- LEGEND**
- CONC SIDEWALKS 4"
  - COLORED TEXTURED CONC 5"
  - PROPOSED LANE
  - EXISTING LANE
  - CURB RAMP TYPE 1
  - CURB RAMP TYPE 7
  - CURB RAMP TYPE 10

- NOTES:**
1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
  2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
  3. ALL STATIONS AND OFFSETS ARE FROM CHAPARRAL UNLESS OTHERWISE SPECIFIED.
  4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
  5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

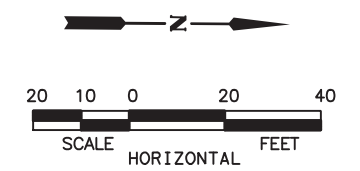
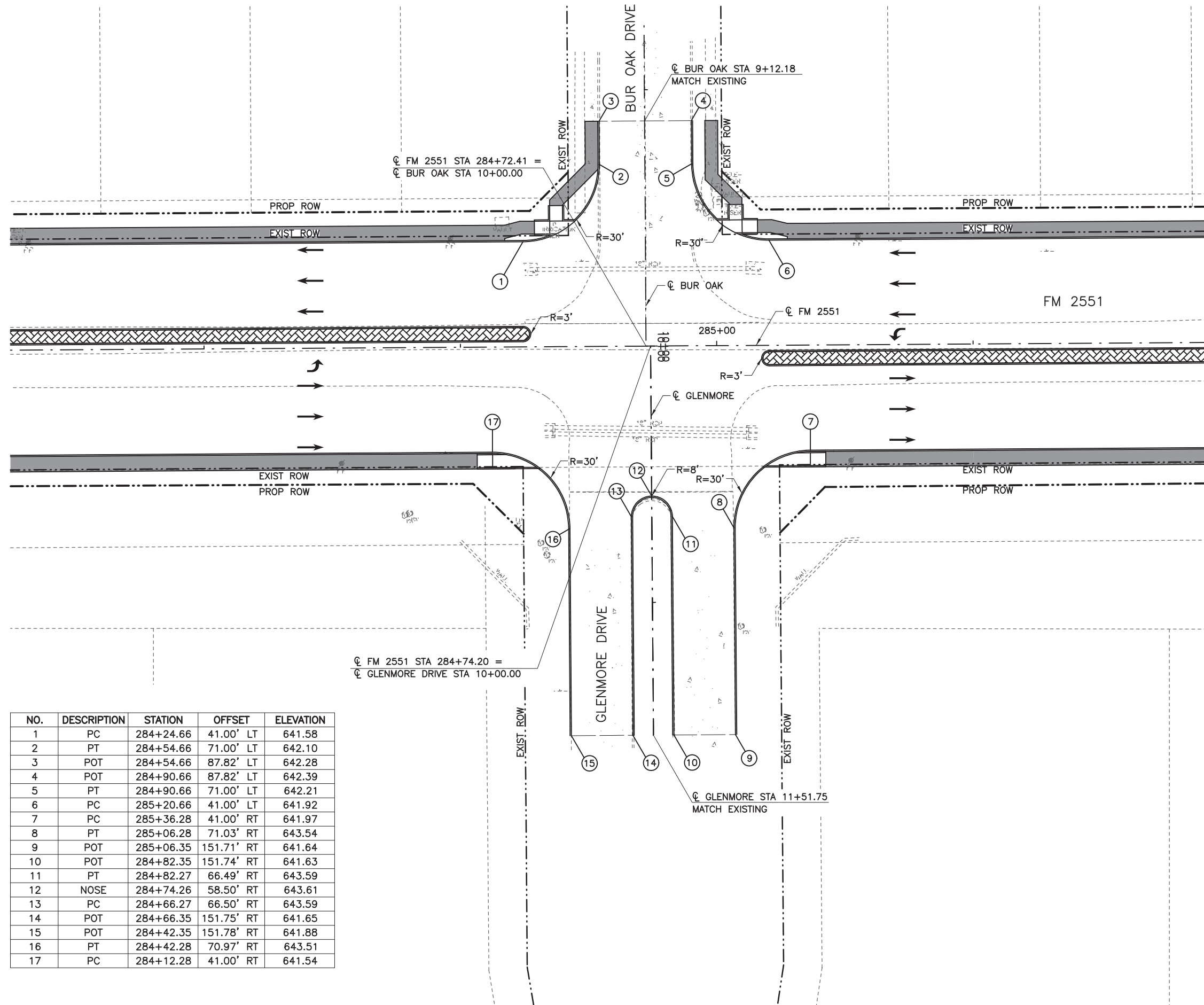
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERSECTION LAYOUT**  
**CHAPARRAL DRIVE/ANDOVER DRIVE**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 151		

NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	PC	259+37.21	41.00' LT	630.62
2	PT	259+67.21	71.00' LT	631.66
3	POT	259+67.22	131.23' LT	632.47
4	POT	260+01.72	131.22' LT	632.23
5	PC	260+01.71	69.48' LT	632.03
6	NOSE	260+15.70	55.47' LT	631.81
7	PT	260+29.71	69.47' LT	631.79
8	POT	260+29.72	131.22' LT	632.12
9	POT	260+53.72	131.21' LT	632.42
10	PT	260+53.71	71.01' LT	631.70
11	PC	260+83.71	41.00' LT	630.63
12	PC	260+72.30	41.00' RT	629.80
13	PT	260+42.30	71.05' RT	631.96
14	POT	260+42.43	164.09' RT	633.39
15	POT	260+18.44	164.13' RT	633.23
16	PT	260+18.28	69.28' RT	632.39
17	NOSE	260+10.27	61.29' RT	632.46
18	PC	260+02.28	69.31' RT	632.69
19	POT	260+02.44	164.15' RT	633.21
20	POT	259+78.44	164.19' RT	633.06
21	PT	259+78.29	70.95' RT	632.09
22	PC	259+48.29	41.00' RT	630.69

8/16/2019 9:18:14 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD1107.dgn



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10

**NOTES:**

1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM CL FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	PC	284+24.66	41.00' LT	641.58
2	PT	284+54.66	71.00' LT	642.10
3	POT	284+54.66	87.82' LT	642.28
4	POT	284+90.66	87.82' LT	642.39
5	PT	284+90.66	71.00' LT	642.21
6	PC	285+20.66	41.00' LT	641.92
7	PC	285+36.28	41.00' RT	641.97
8	PT	285+06.28	71.03' RT	643.54
9	POT	285+06.35	151.71' RT	641.64
10	POT	284+82.35	151.74' RT	641.63
11	PT	284+82.27	66.49' RT	643.59
12	NOSE	284+74.26	58.50' RT	643.61
13	PC	284+66.27	66.50' RT	643.59
14	POT	284+66.35	151.75' RT	641.65
15	POT	284+42.35	151.78' RT	641.88
16	PT	284+42.28	70.97' RT	643.51
17	PC	284+12.28	41.00' RT	641.54

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**

TEXAS REGISTERED ENGINEERING FIRM, F-1741

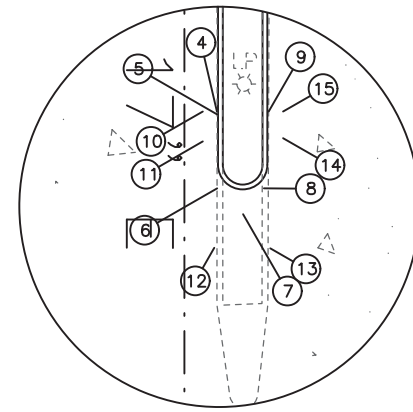
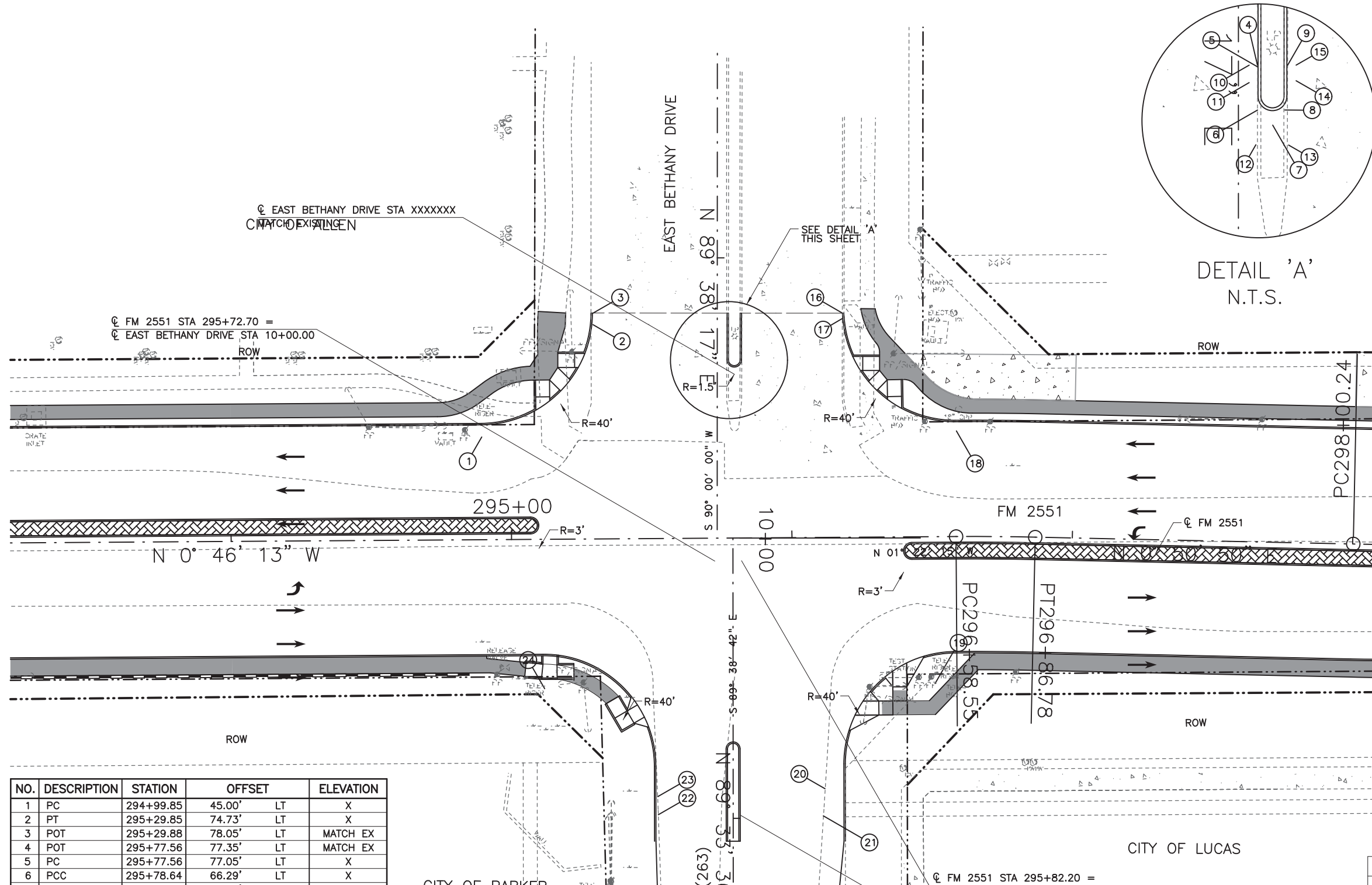
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
**FM 2551 (MURPHY ROAD)**

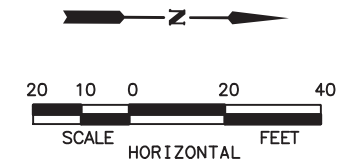
**INTERSECTION LAYOUT**  
**BUR OAK DRIVE/GLENMORE DRIVE**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 152

8/16/2019 9:18:19 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RD1107.dgn



DETAIL 'A'  
N.T.S.



LEGEND

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10

NOTES:

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2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM 2551 UNLESS OTHERWISE SPECIFIED.
4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

NO.	DESCRIPTION	STATION	OFFSET		ELEVATION
1	PC	294+99.85	45.00'	LT	X
2	PT	295+29.85	74.73'	LT	X
3	POT	295+29.88	78.05'	LT	MATCH EX
4	POT	295+77.56	77.35'	LT	MATCH EX
5	PC	295+77.56	77.05'	LT	X
6	PCC	295+78.64	66.29'	LT	X
7	NOSE	295+80.09	65.10'	LT	X
8	PCC	295+81.57	66.26'	LT	X
9	PT	295+82.94	77.31'	LT	X
10	SAW CUT	295+76.06	77.37'	LT	X
11	SAW CUT	295+76.04	74.25'	LT	X
12	SAW CUT	295+77.16	63.14'	LT	X
13	SAW CUT	295+83.00	63.07'	LT	X
14	SAW CUT	295+84.42	74.53'	LT	X
15	SAW CUT	295+84.44	77.28'	LT	X
16	POT	296+19.43	76.78'	LT	MATCH EX
17	PC	296+19.42	75.74'	LT	X
18	PT	296+49.41	45.71'	LT	X
19	PC	296+41.21	44.36'	LT	X
20	PT	296+11.31	72.25'	RT	X
21	POT	296+09.81	91.14'	RT	MATCH EX
22	POT	295+51.81	90.28'	RT	MATCH EX
23	PC	295+51.35	74.14'	RT	X
24	PT	295+21.36	45.00'	RT	X

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

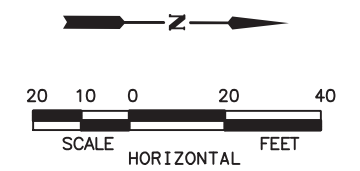
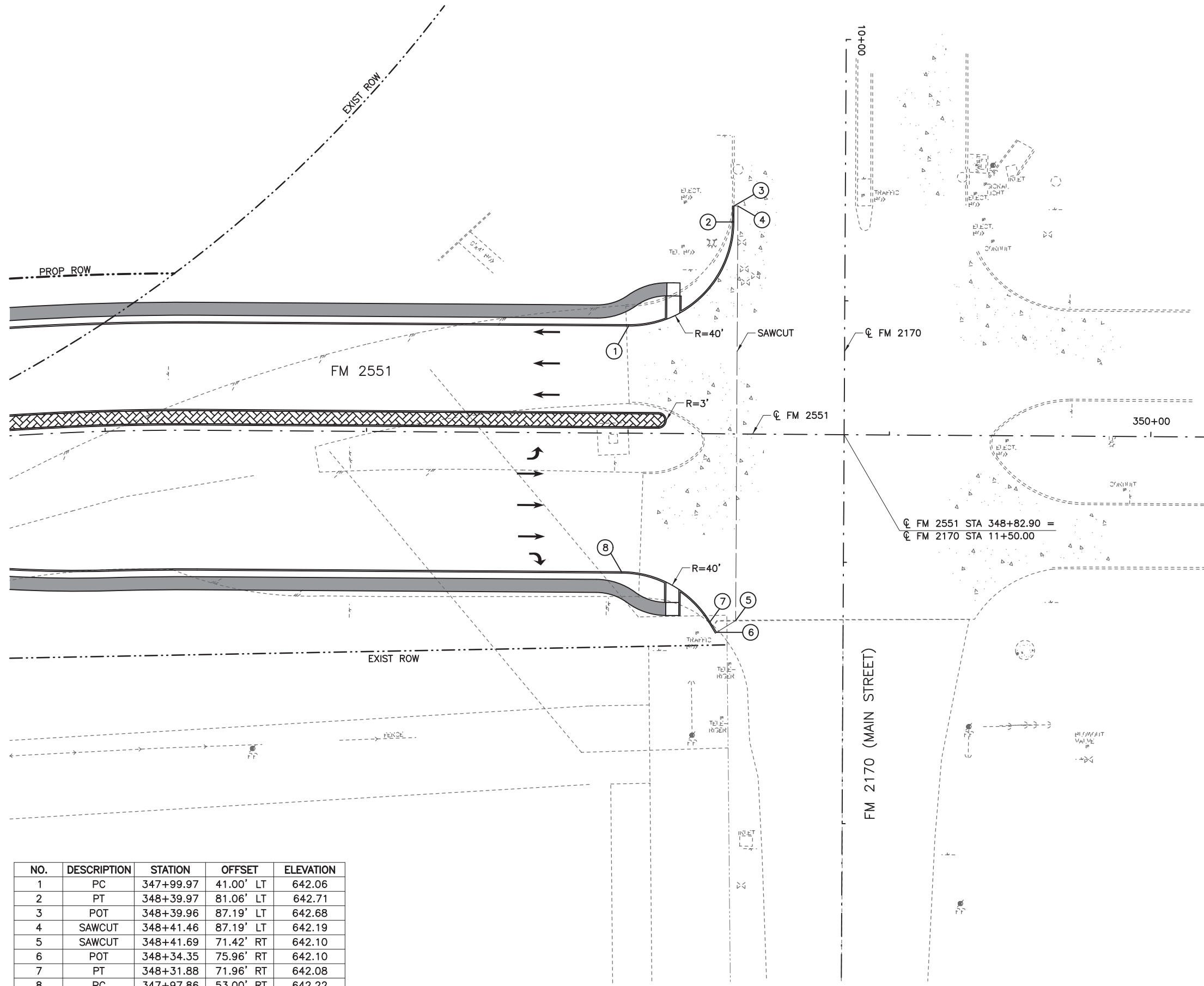
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INTERSECTION LAYOUT**  
**EAST BETHANY DRIVE/WEST LUCAS ROAD**

Designed: -	FED. NO. STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: -	6 TEXAS	CSJ 2056-01-042	FM 2551
Drawn: -	DIST. COUNTY	CONTROL SECTION	JOB SHEET NO.
Checked: -	18 COLLIN	2056 01 042	-



**LEGEND**

- CONC SIDEWALKS 4"
- COLORED TEXTURED CONC 5"
- PROPOSED LANE
- EXISTING LANE
- CURB RAMP TYPE 1
- CURB RAMP TYPE 7
- CURB RAMP TYPE 10

**NOTES:**

1. ALL LINEAR DIMENSIONS ARE TO THE FACE OF CURB.
2. ALL RADII DIMENSIONS ARE TO THE FACE OF CURB.
3. ALL STATIONS AND OFFSETS ARE FROM  $\text{C FM 2551}$  UNLESS OTHERWISE SPECIFIED.
4. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION.
5. SEE INTERSECTION GRADING SHEETS FOR ADDITIONAL INFORMATION.

$\text{C FM 2551 STA 348+82.90} =$   
 $\text{C FM 2170 STA 11+50.00}$

NO.	DESCRIPTION	STATION	OFFSET	ELEVATION
1	PC	347+99.97	41.00' LT	642.06
2	PT	348+39.97	81.06' LT	642.71
3	POT	348+39.96	87.19' LT	642.68
4	SAWCUT	348+41.46	87.19' LT	642.19
5	SAWCUT	348+41.69	71.42' RT	642.10
6	POT	348+34.35	75.96' RT	642.10
7	PT	348+31.88	71.96' RT	642.08
8	PC	347+97.86	53.00' RT	642.22

**100% PLANS ADEQUATE**  
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 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

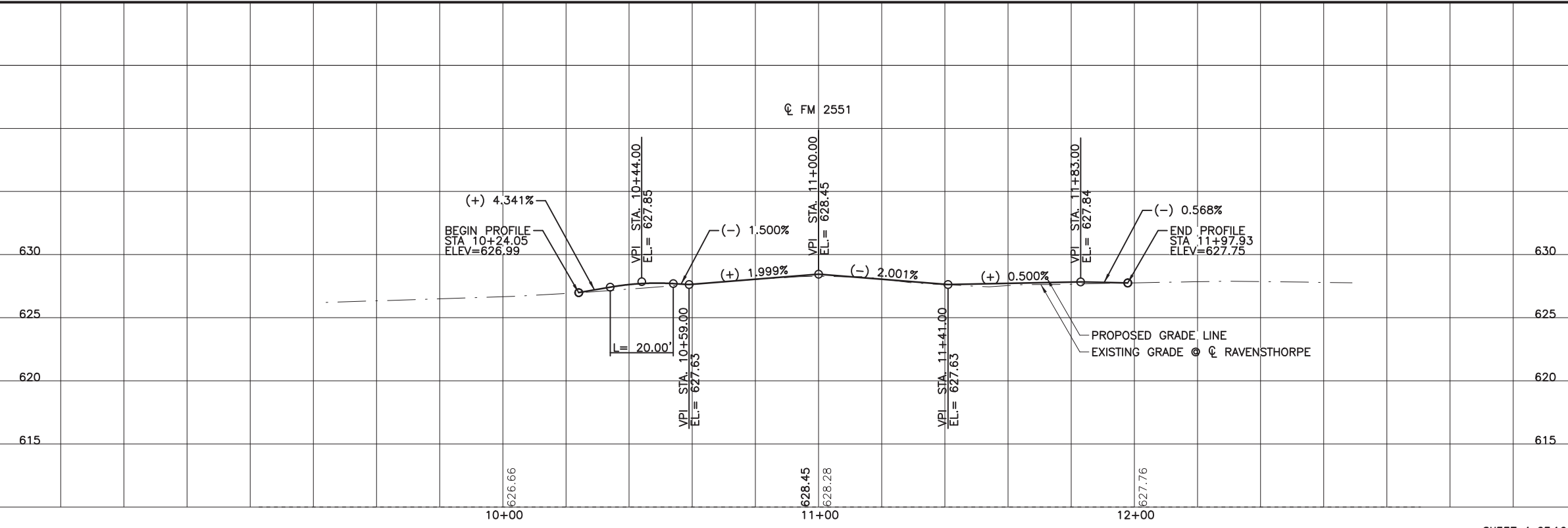
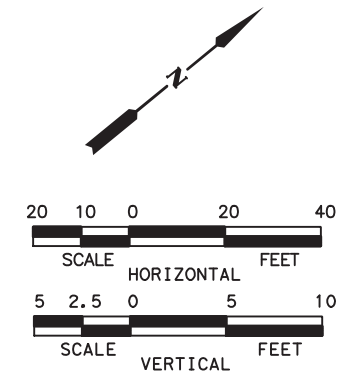
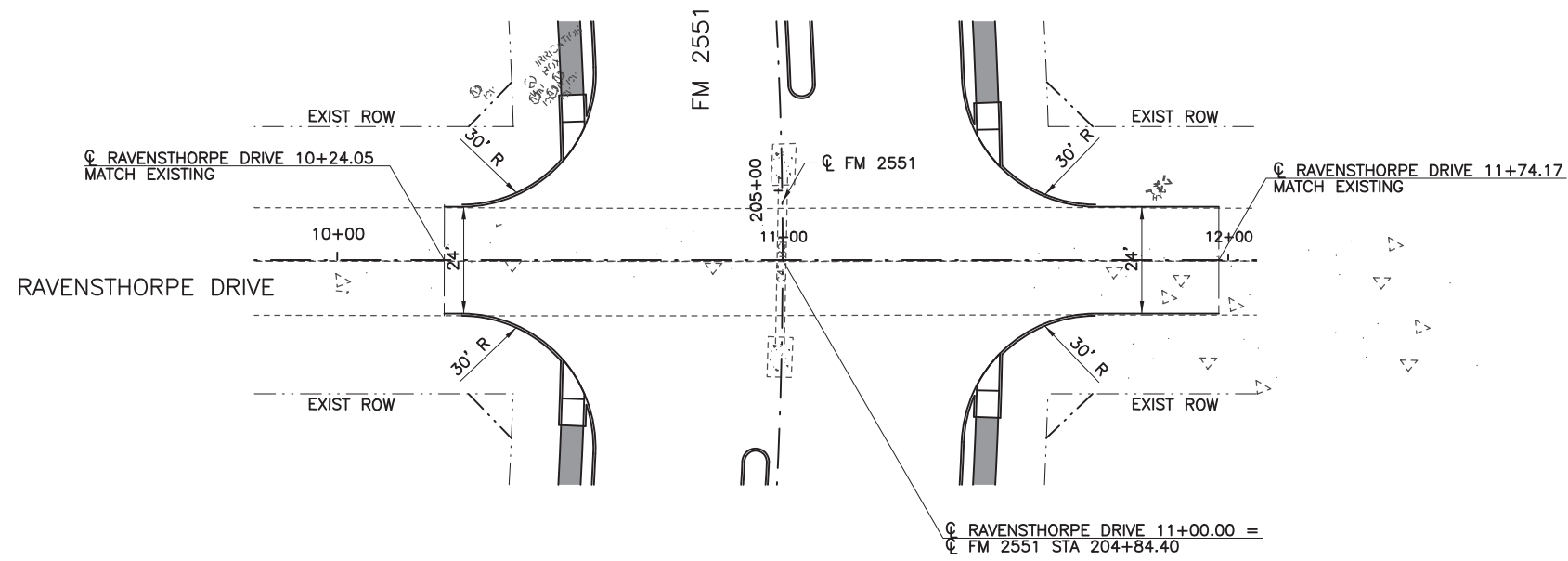
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERSECTION LAYOUT**  
 FM 2170 (MAIN STREET)

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 154

8/16/2019 9:18:30 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdcp01.dgn



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**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

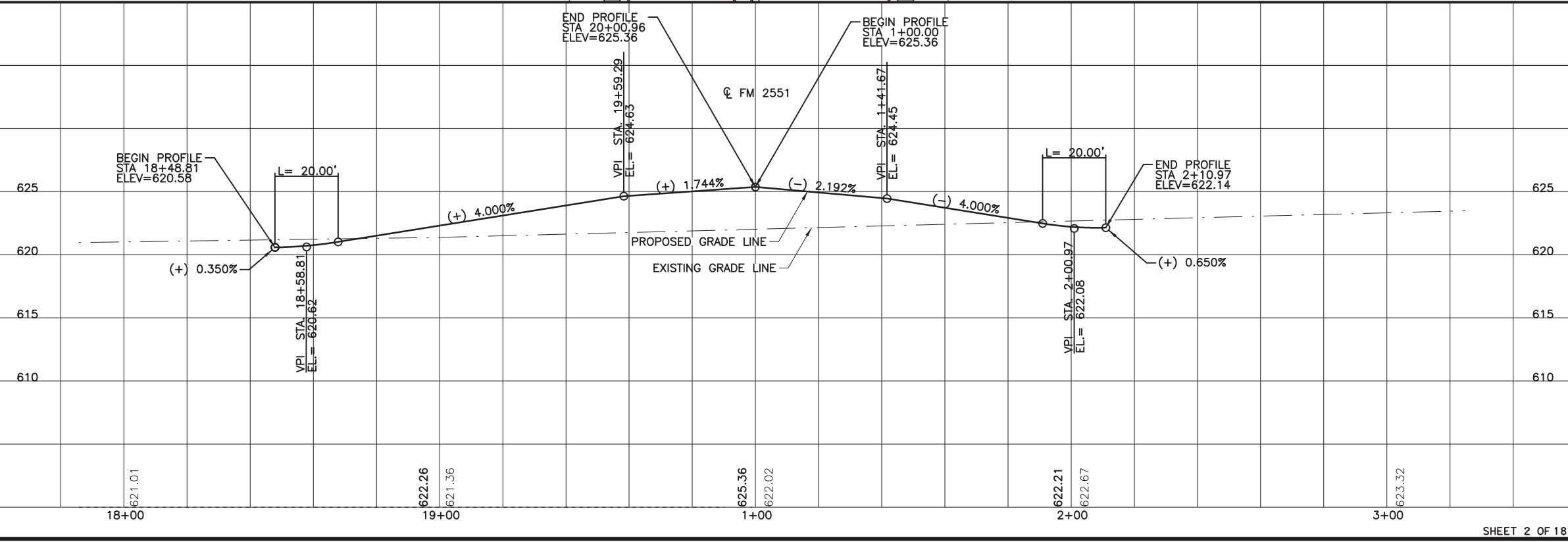
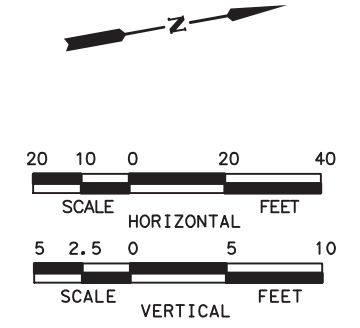
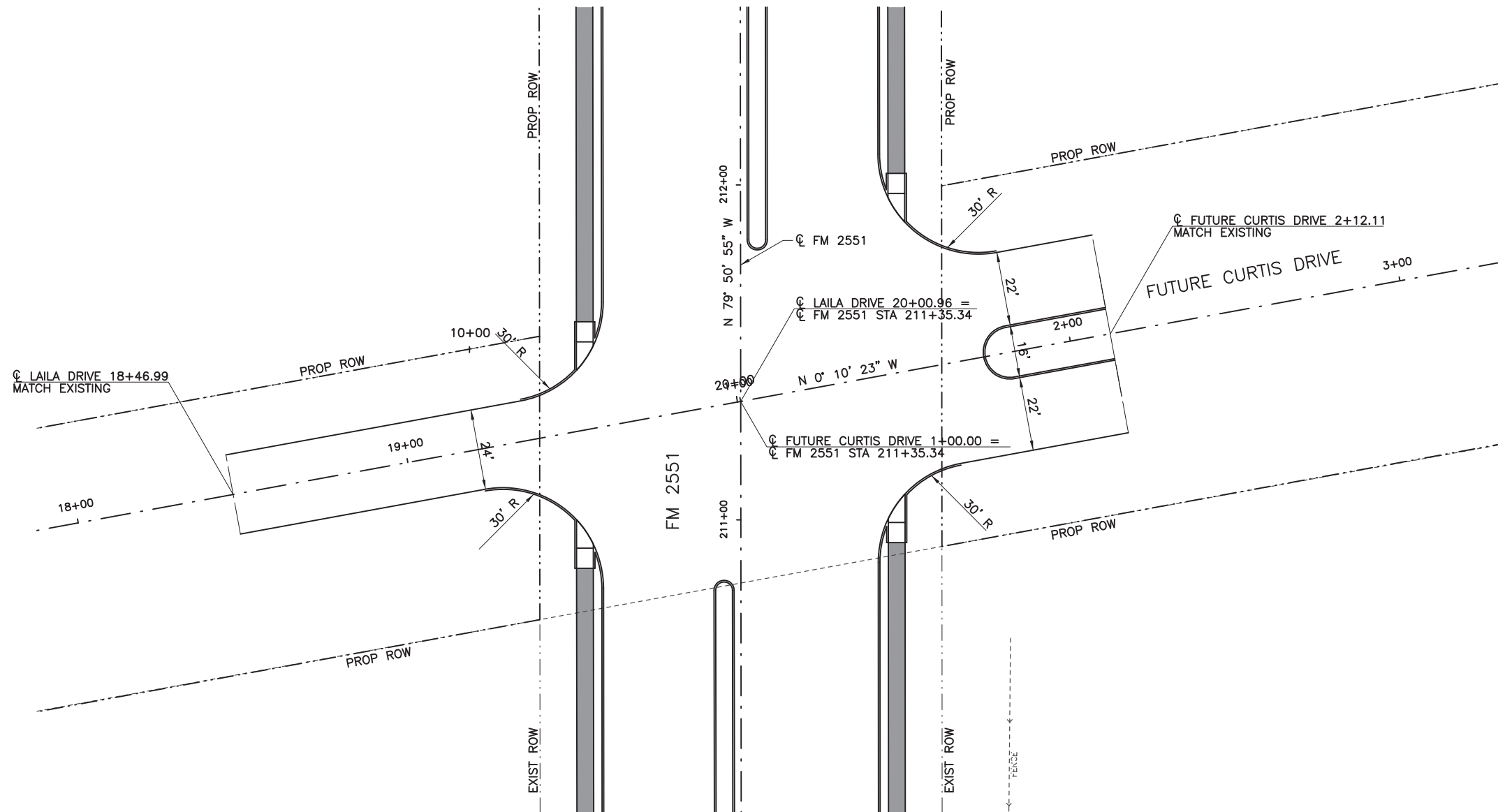
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
RAVENSTHORPE DRIVE

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. 18	COUNTY COLLIN	CONTROL NO. 2056	SECTION NO. 01
Drawn:	JOB NO. 042	SHEET NO. 155		



8/16/2019 9:18:37 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp02.dgn



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 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

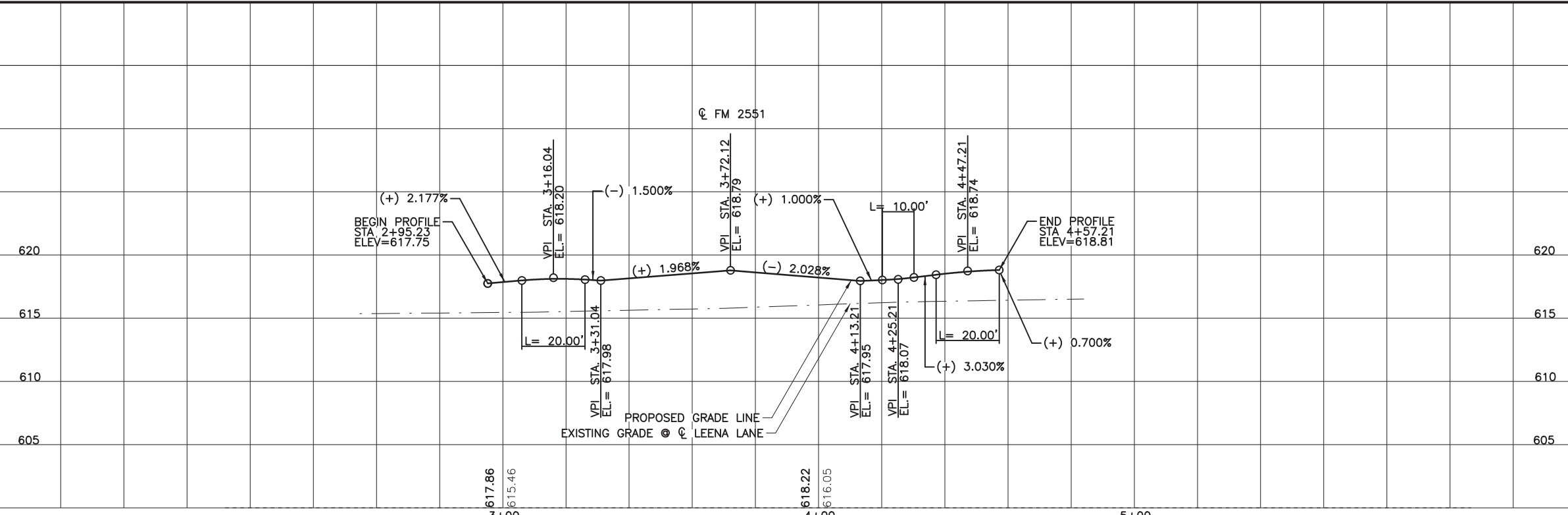
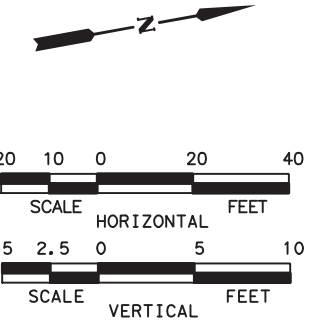
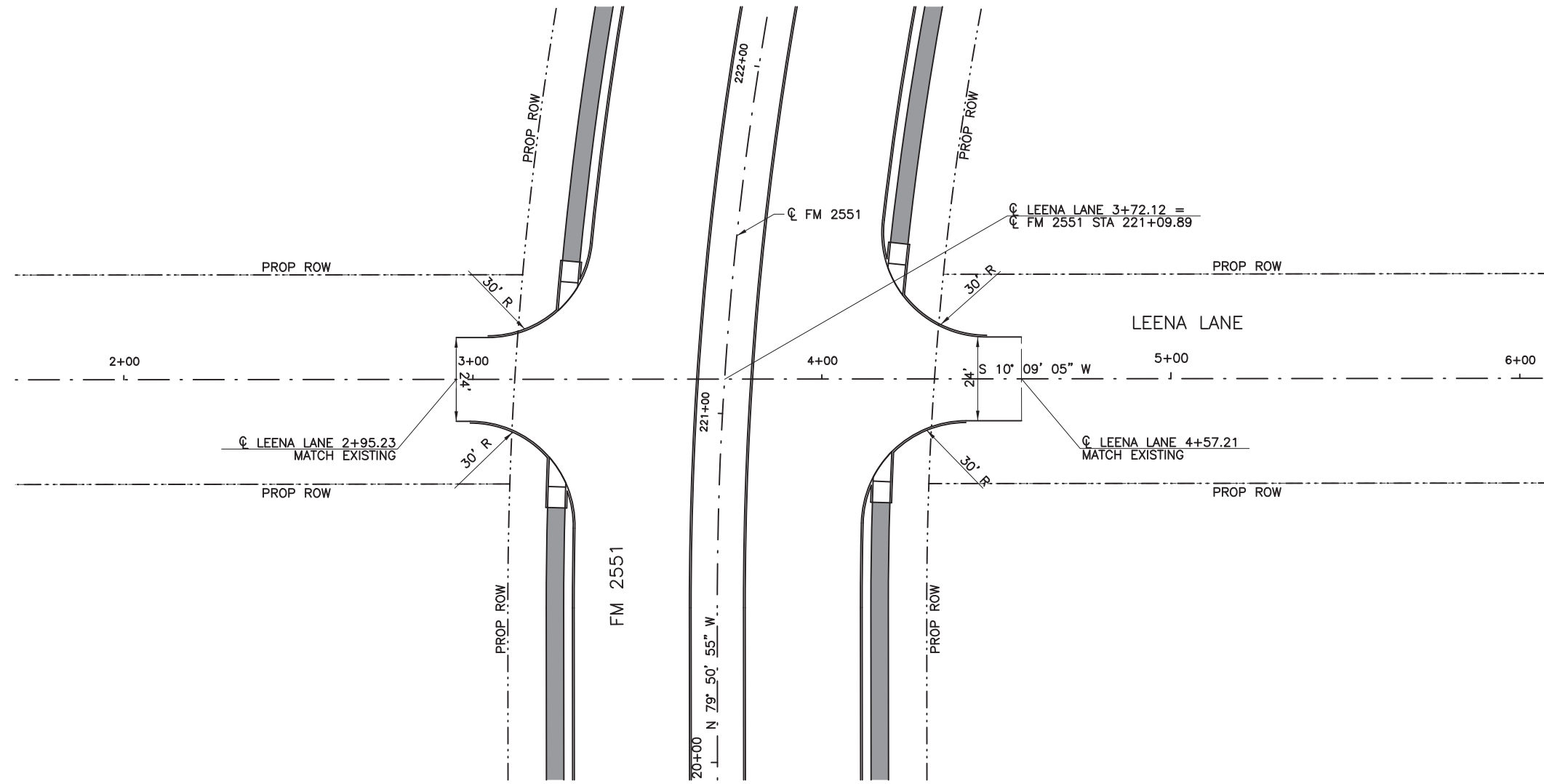
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
 FUTURE CURTIS DRIVE

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. 18	COUNTY COLLIN	CONTROL NO. 2056	SECTION NO. 01
Drawn:	JOB NO. 042	SHEET NO. 156		

8/16/2019 9:18:42 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp03.dgn



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 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

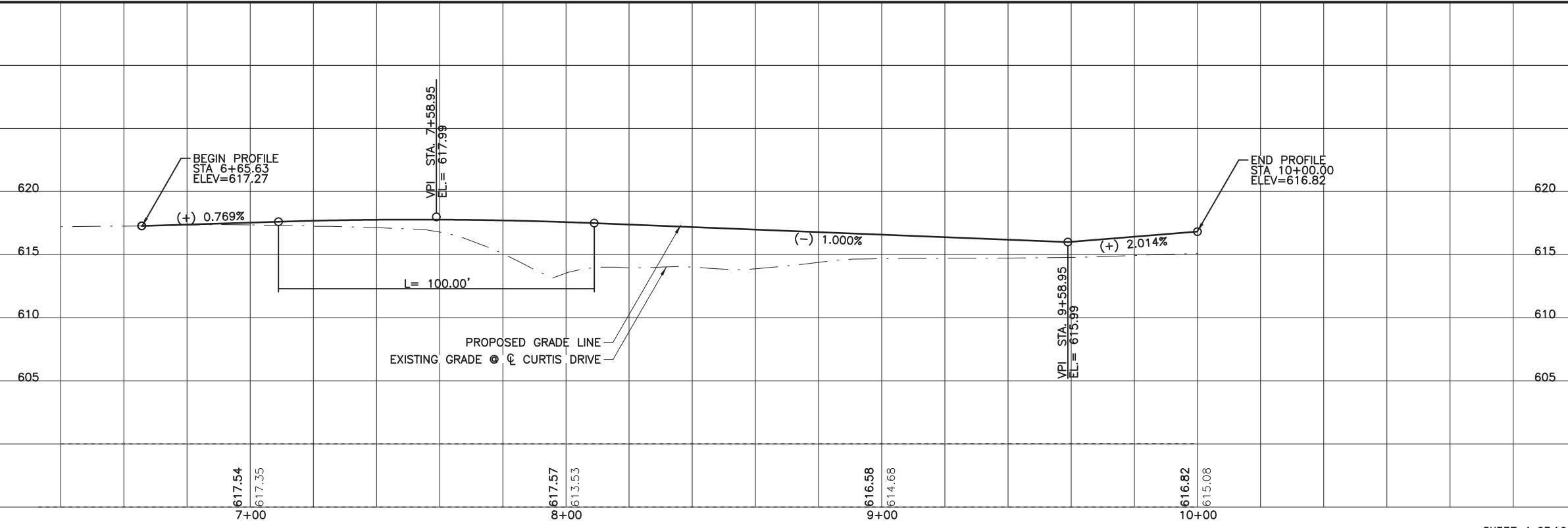
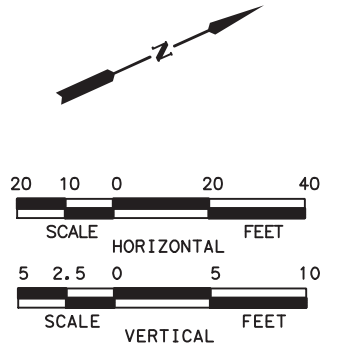
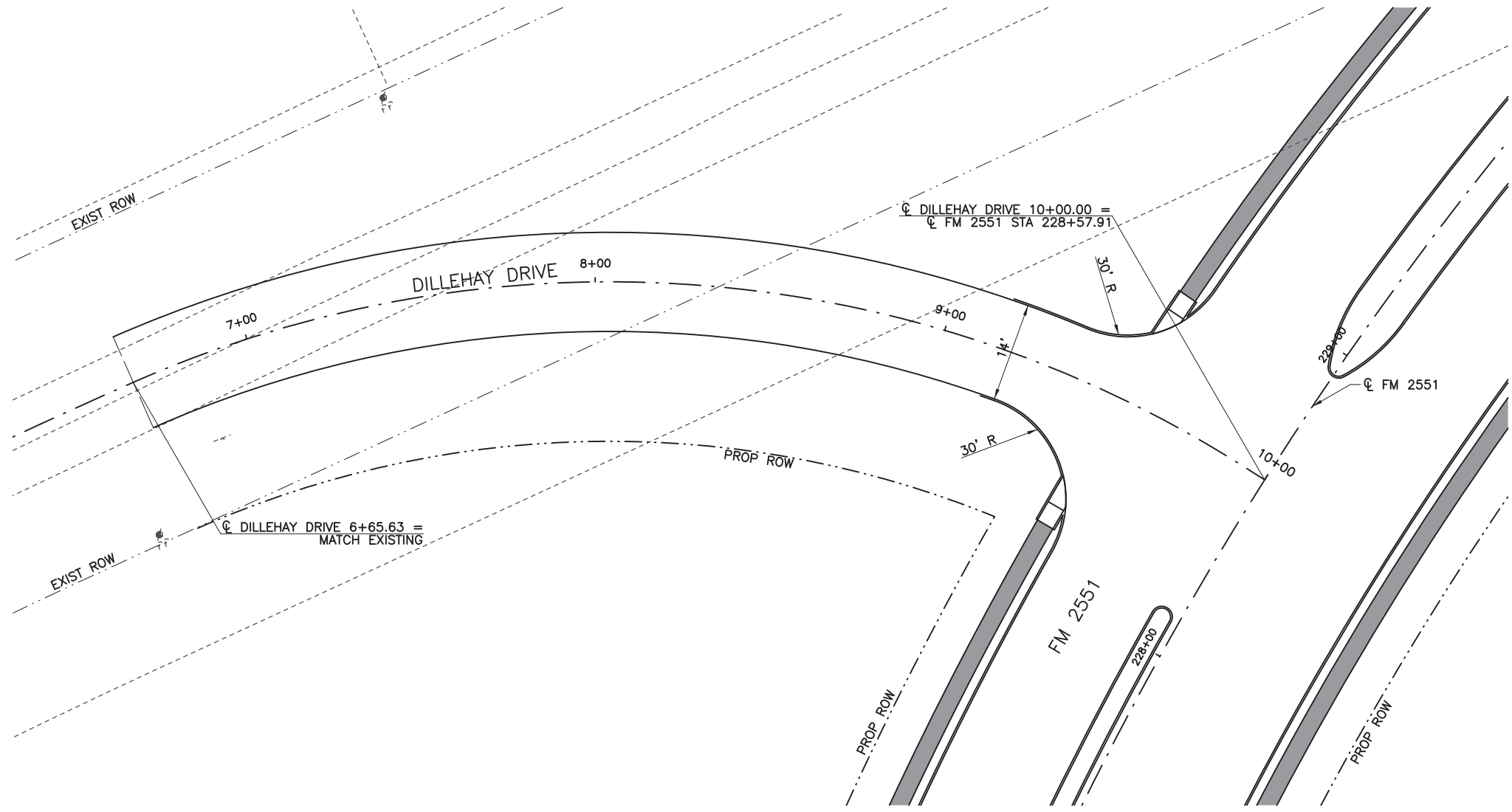
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
**LEENA LANE**

Designed: CPY	FED. PROJ. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.	COUNTY	CONTROL NO. SECTION NO.	JOB NO. SHEET NO.
Checked:	18	COLLIN	2056 01 042	157

8/16/2019 9:18:48 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp04.dgn



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 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

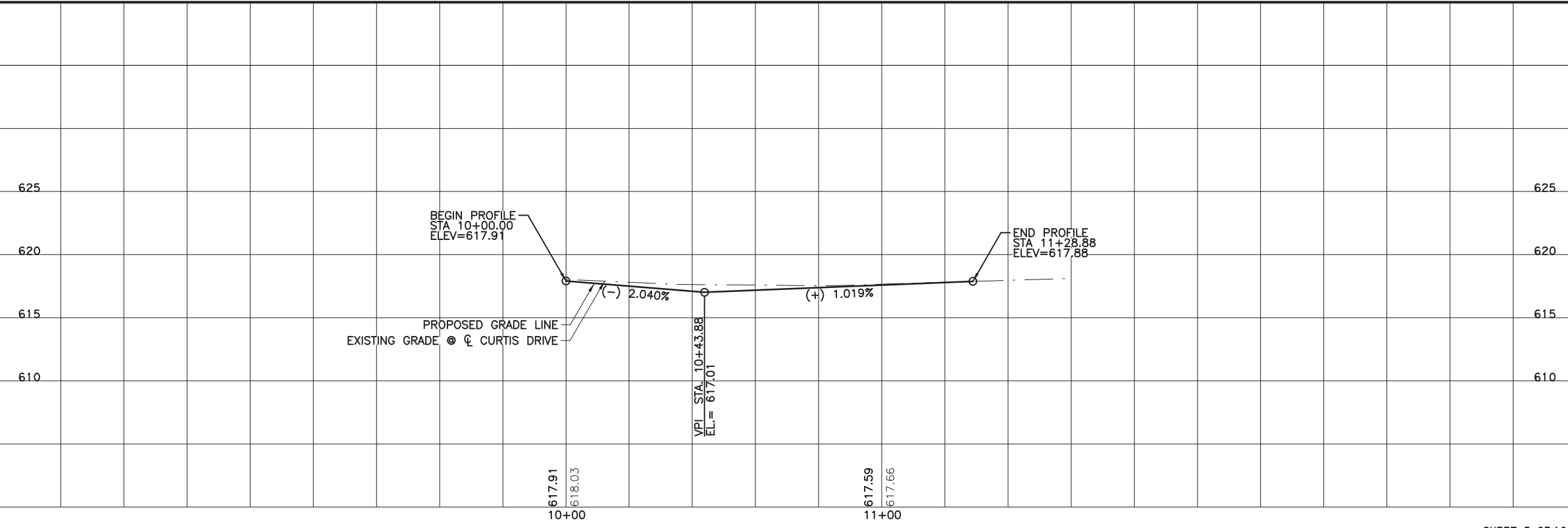
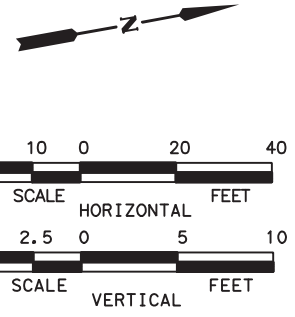
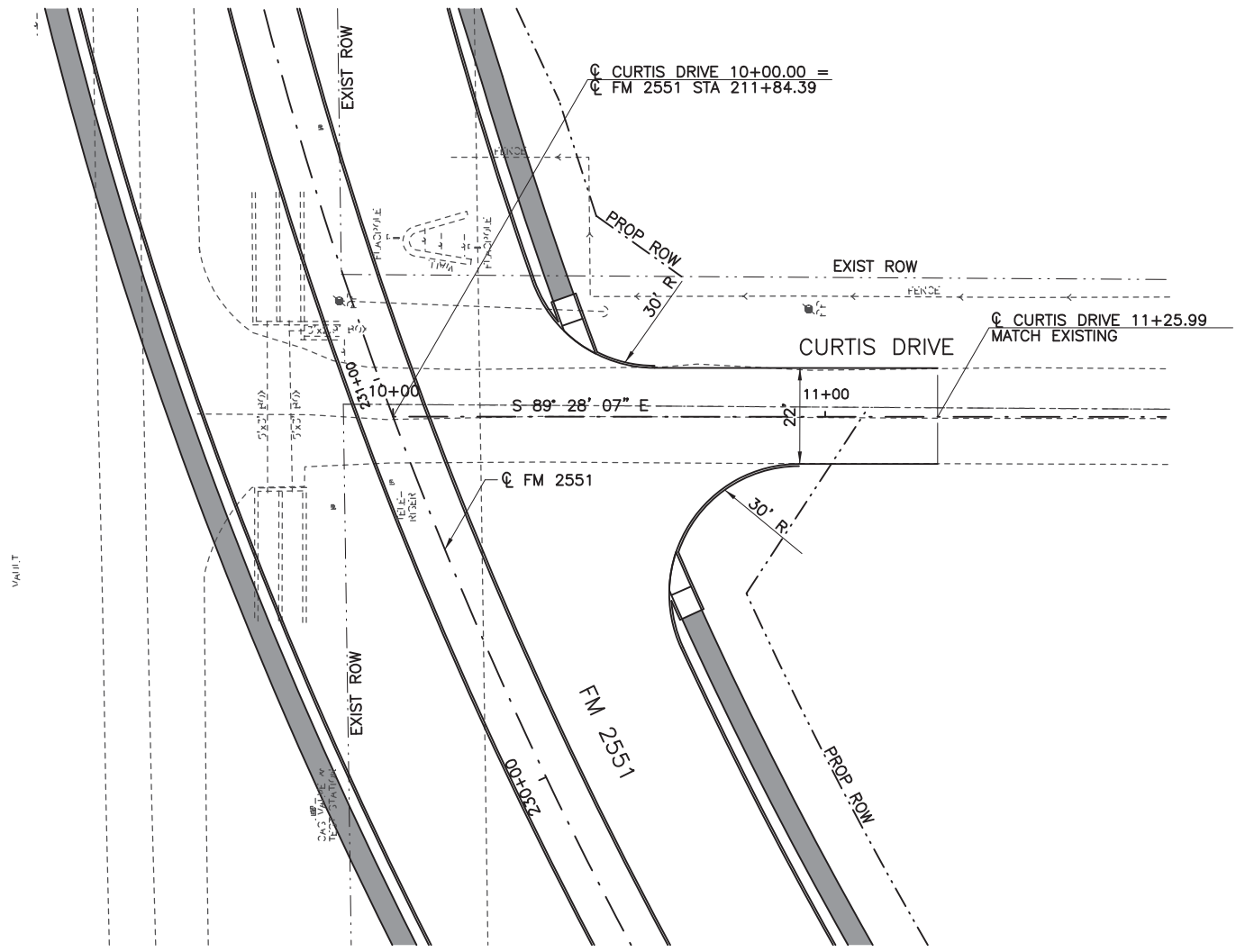
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
 DILLEHAY DRIVE

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 2056	SECTION NO. 01	JOB NO. 042	SHEET NO. 158

8/16/2019 9:18:54 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdcp05.dgn



100% PLANS ADEQUATE  
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**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

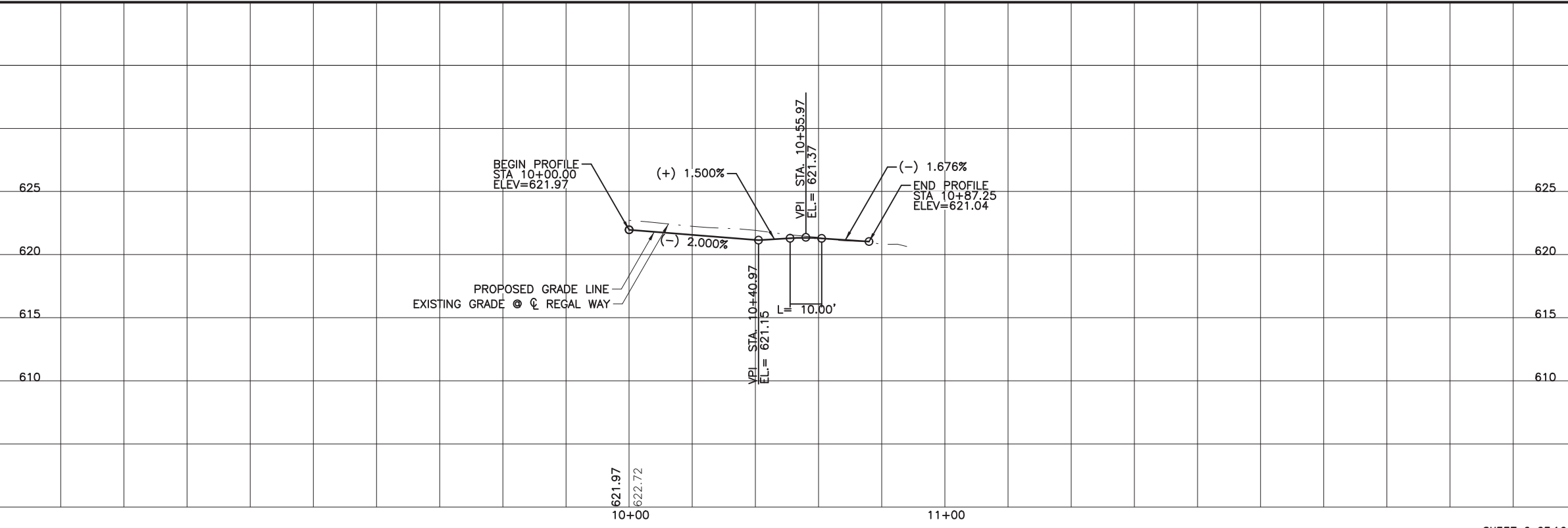
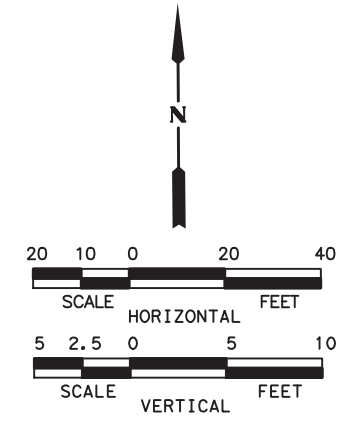
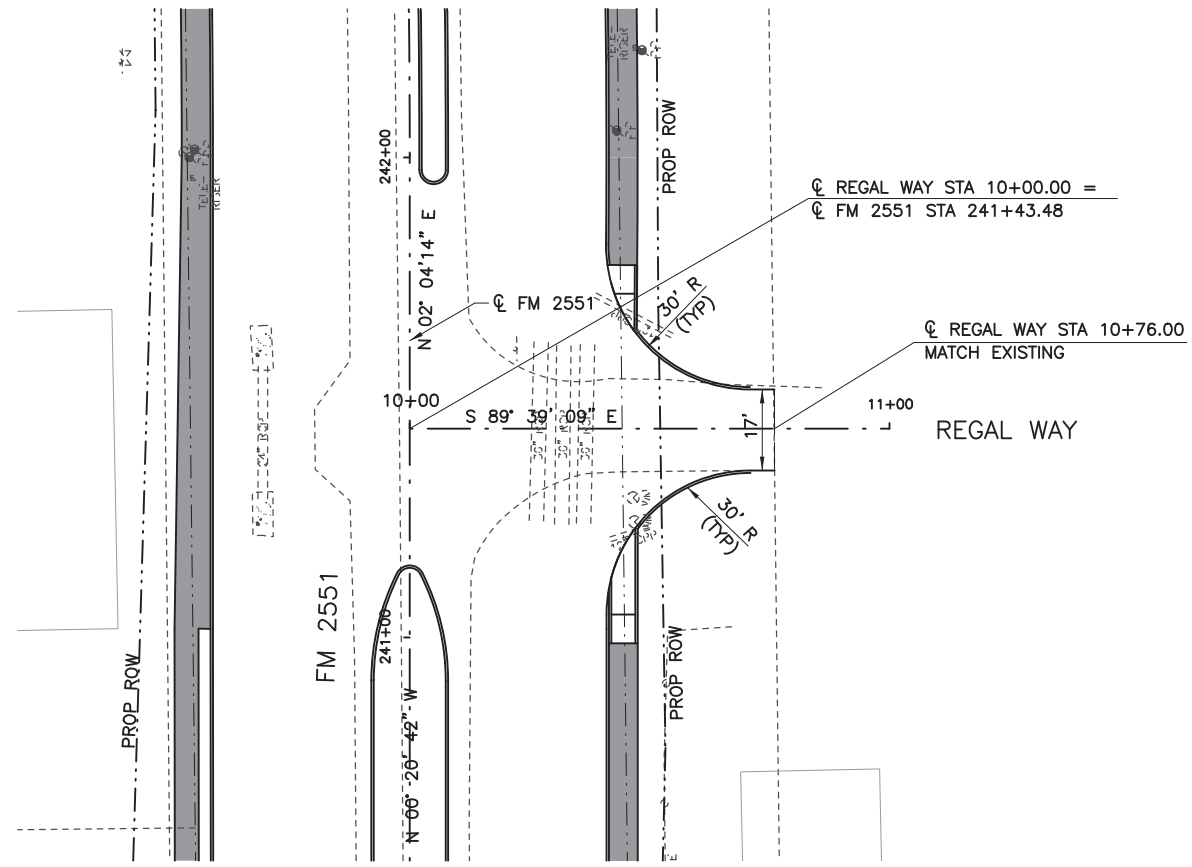
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
**CURTIS DRIVE**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.		
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551		
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
Checked:	18	COLLIN	2056	01	042	159	

8/16/2019 9:19:00 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp06.dgn



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 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

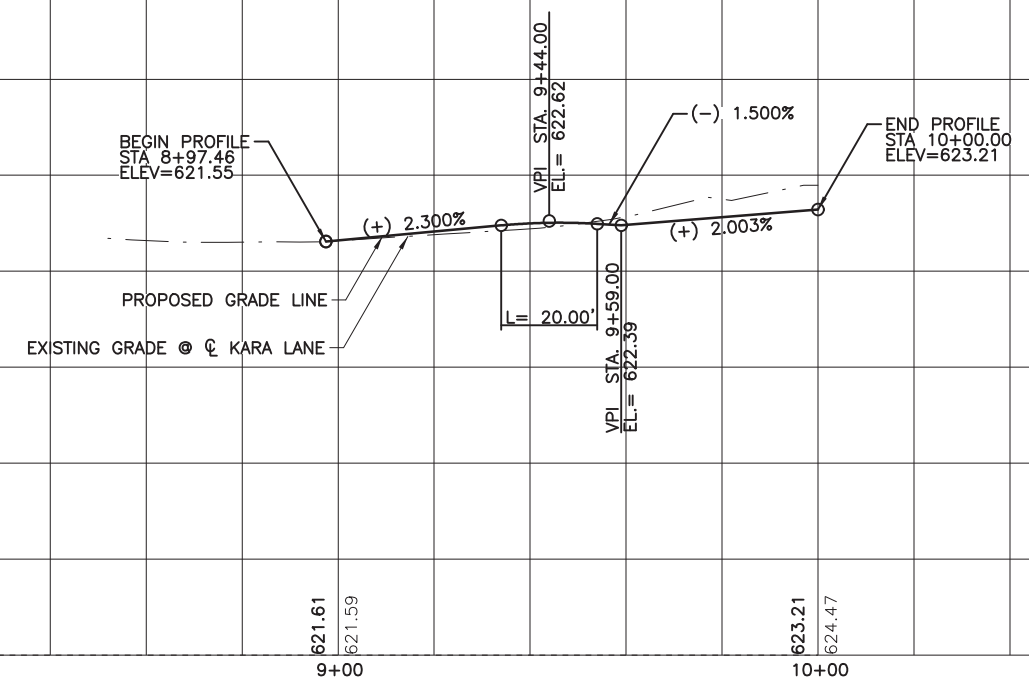
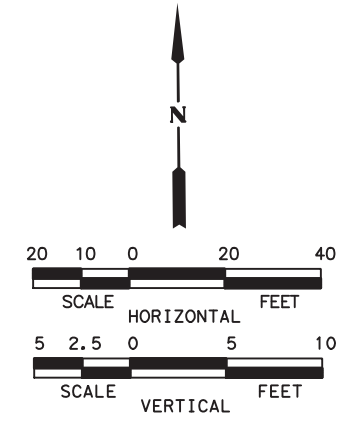
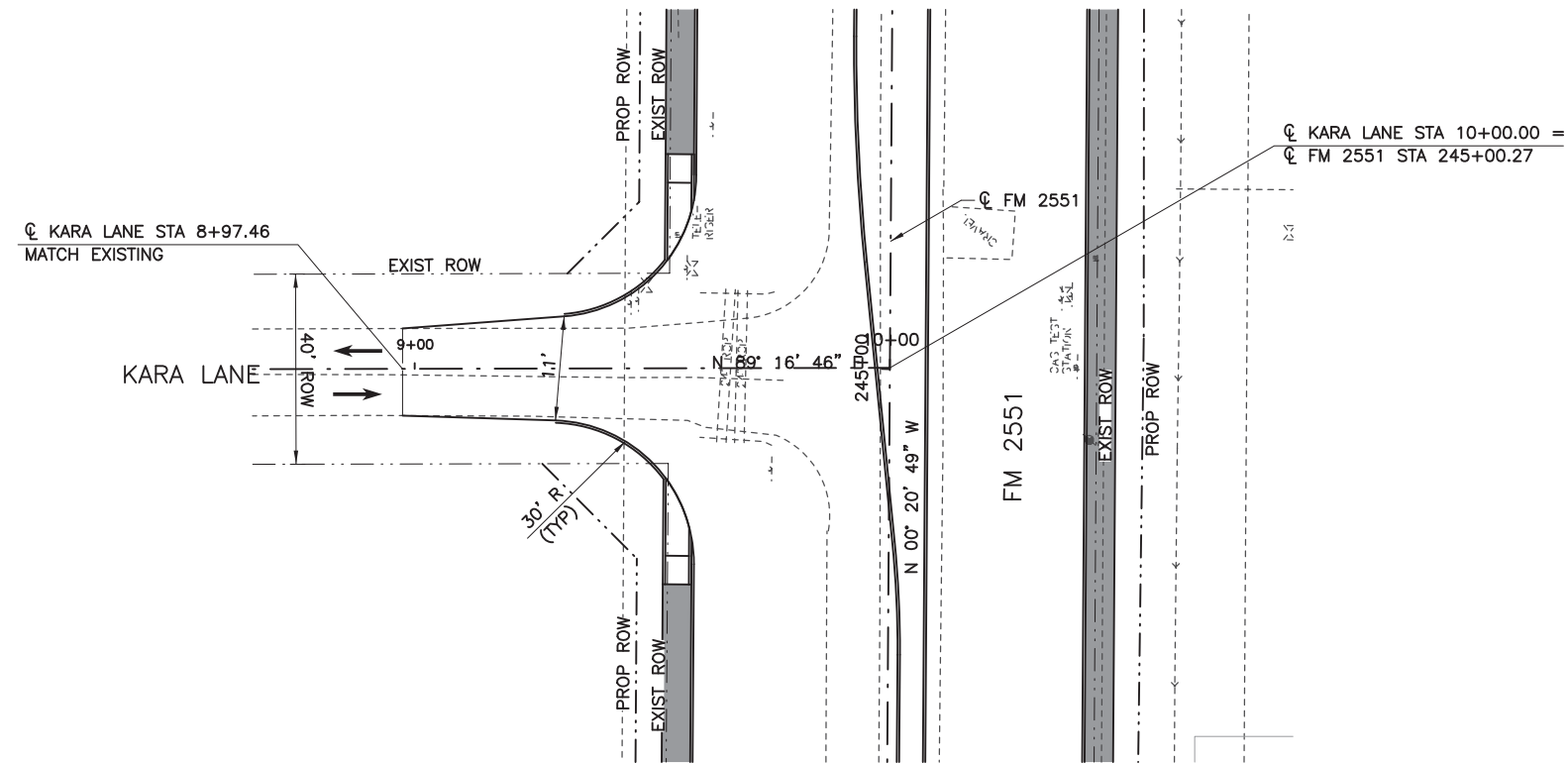
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
 REGAL WAY

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	18	COLLIN	2056	01	042
					SHEET NO. 160

8/16/2019 9:19:06 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdcp07.dgn



100% PLANS ADEQUATE  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741

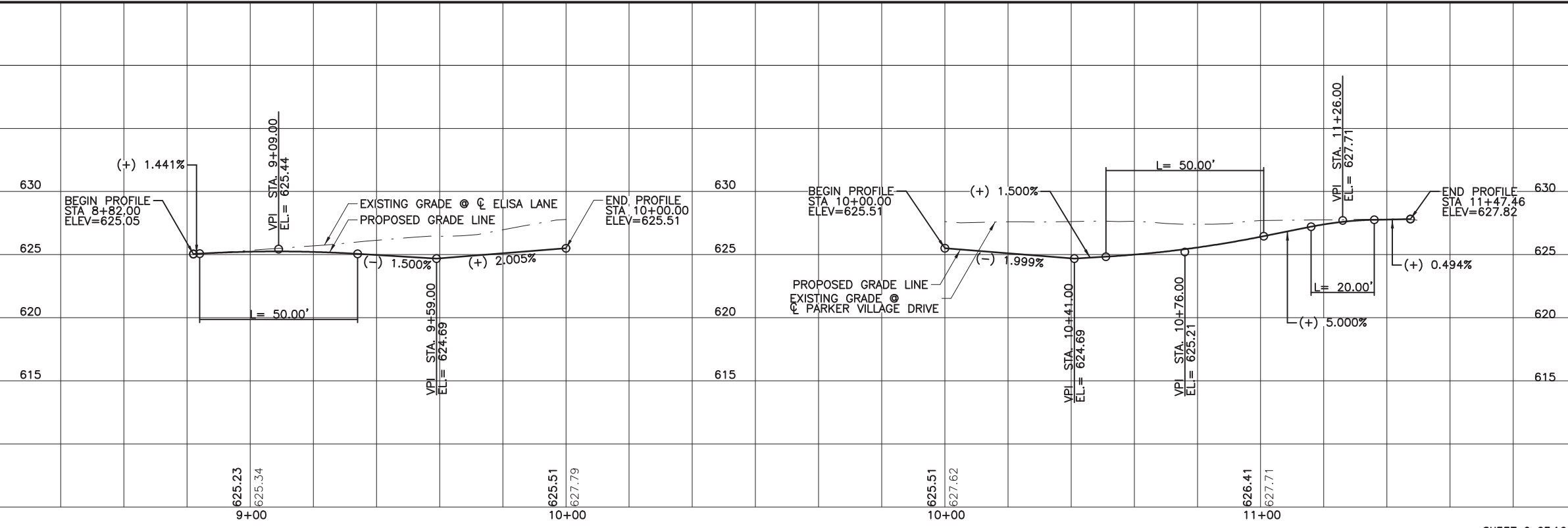
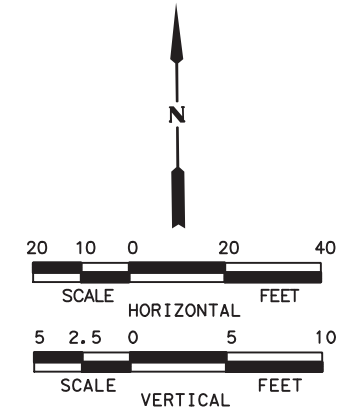
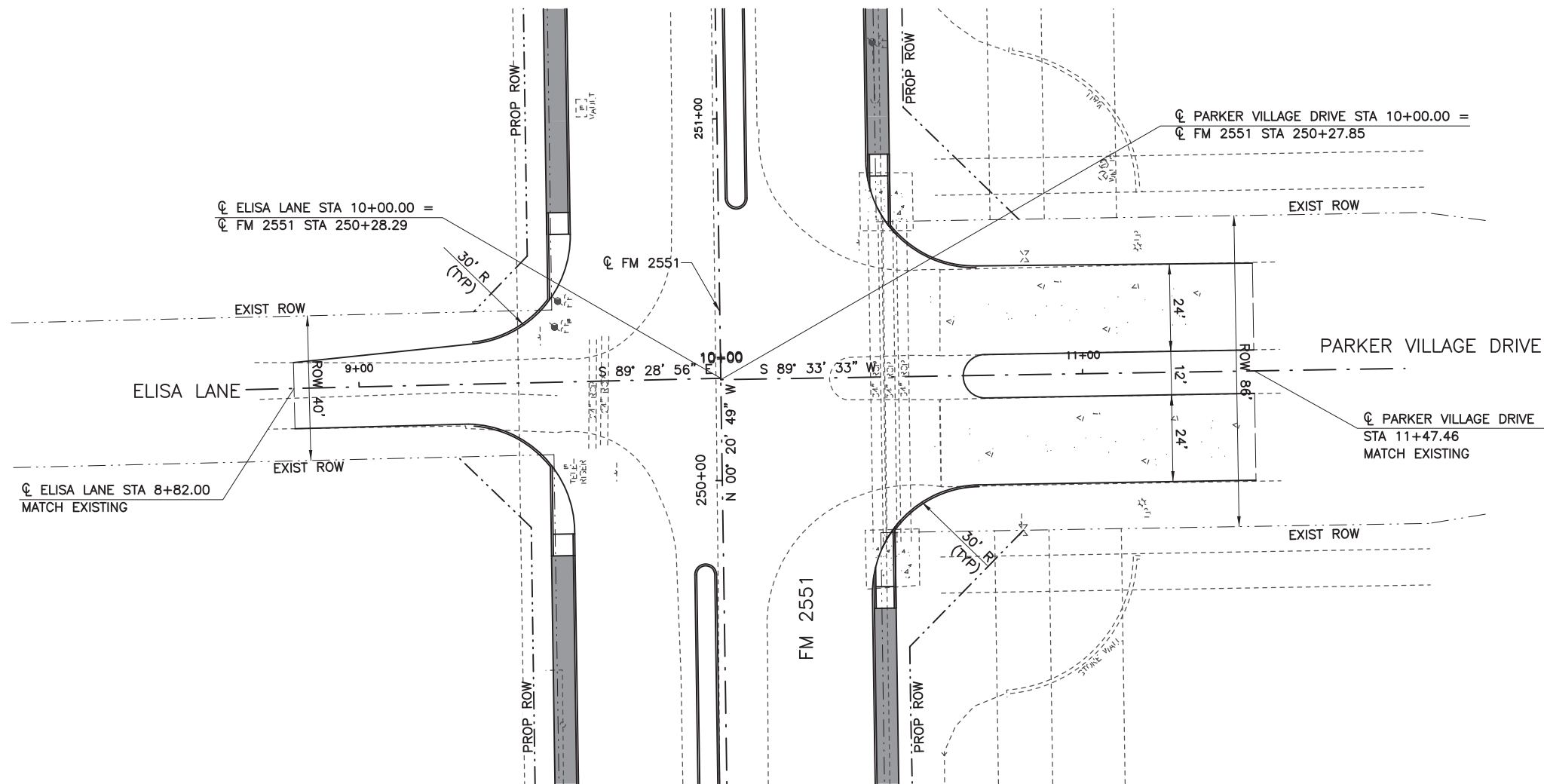


FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
 KARA LANE

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.		
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551		
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
Checked:	18		COLLIN	2056	01	042	161

8/16/2019 9:19:11 AM aklocinski pw:/Active Projects/COLLIN/201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp08.dgn



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

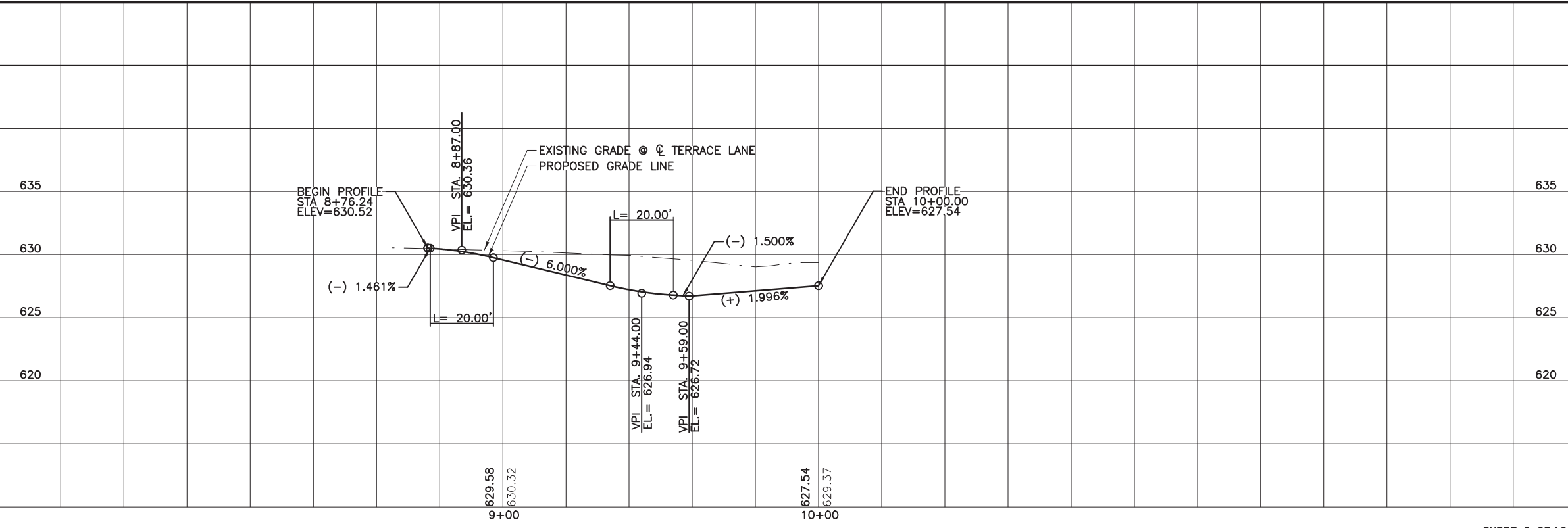
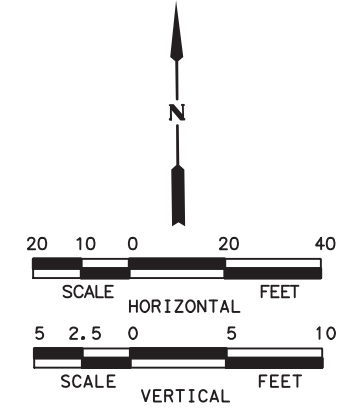
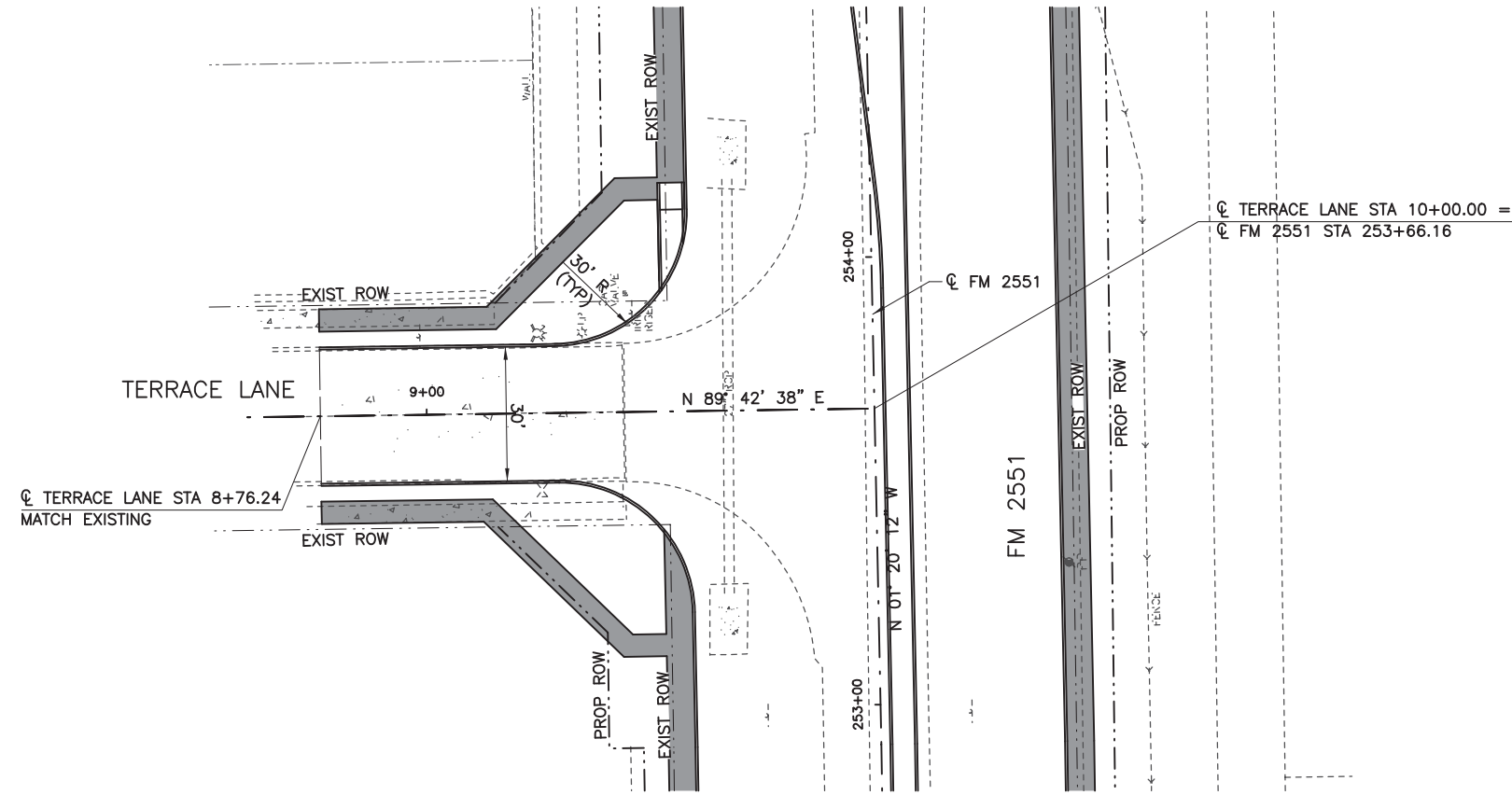
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
ELISA LANE & PARKER VILLAGE DRIVE

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:			DIST. COUNTY	CONTROL SECTION NO.	JOB NO. SHEET NO.
Checked:	18		COLLIN	2056 01 042	162

8/16/2019 9:19:18 AM aklocinski pw:/Active Projects/COLLIN/201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp09.dgn



**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

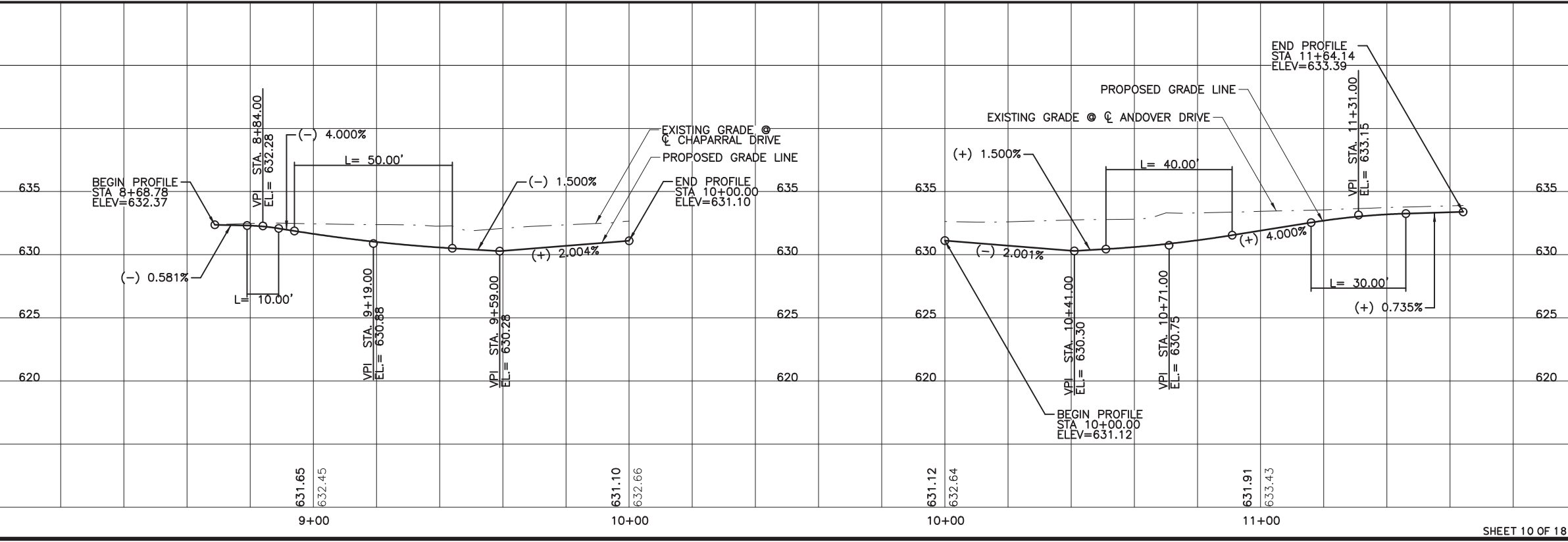
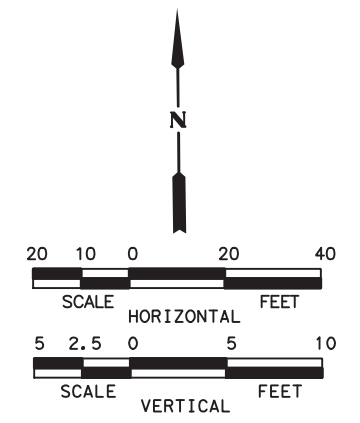
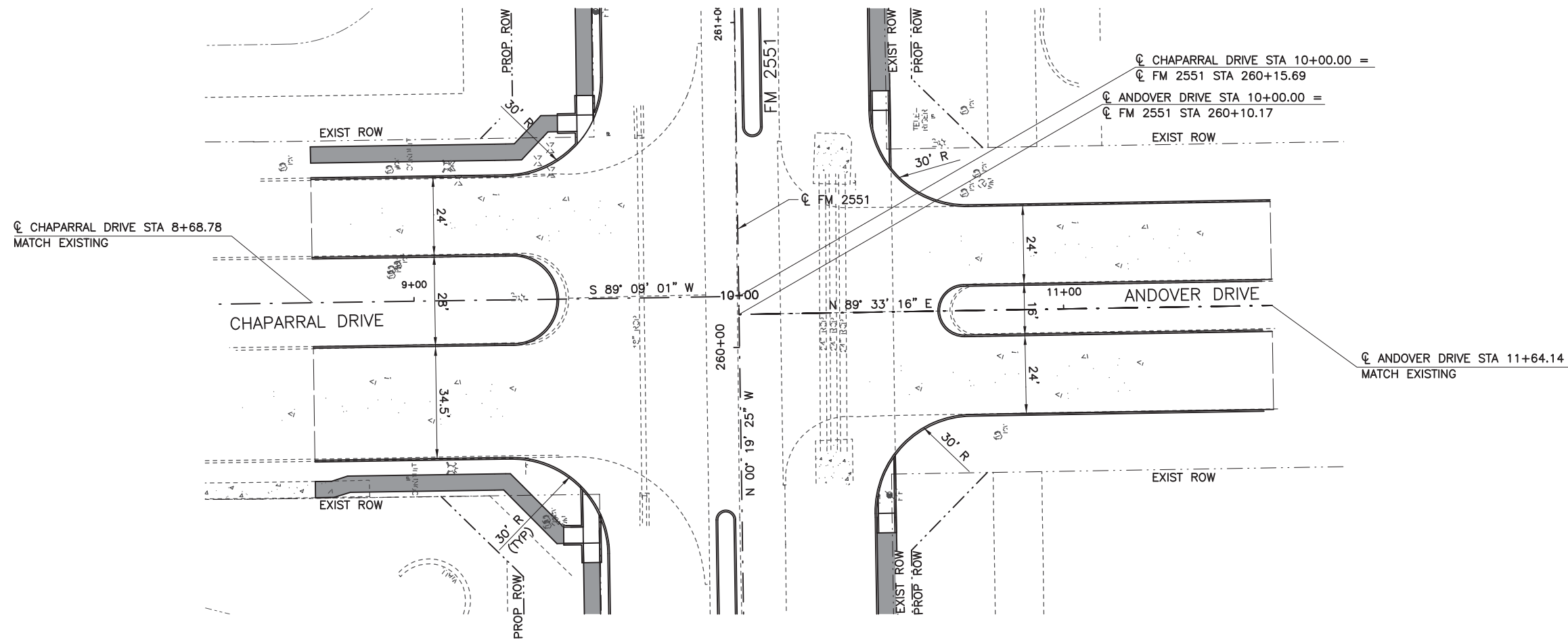
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
**TERRACE LANE**

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 163		



8/16/2019 9:19:24 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdcp10.dgn



NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

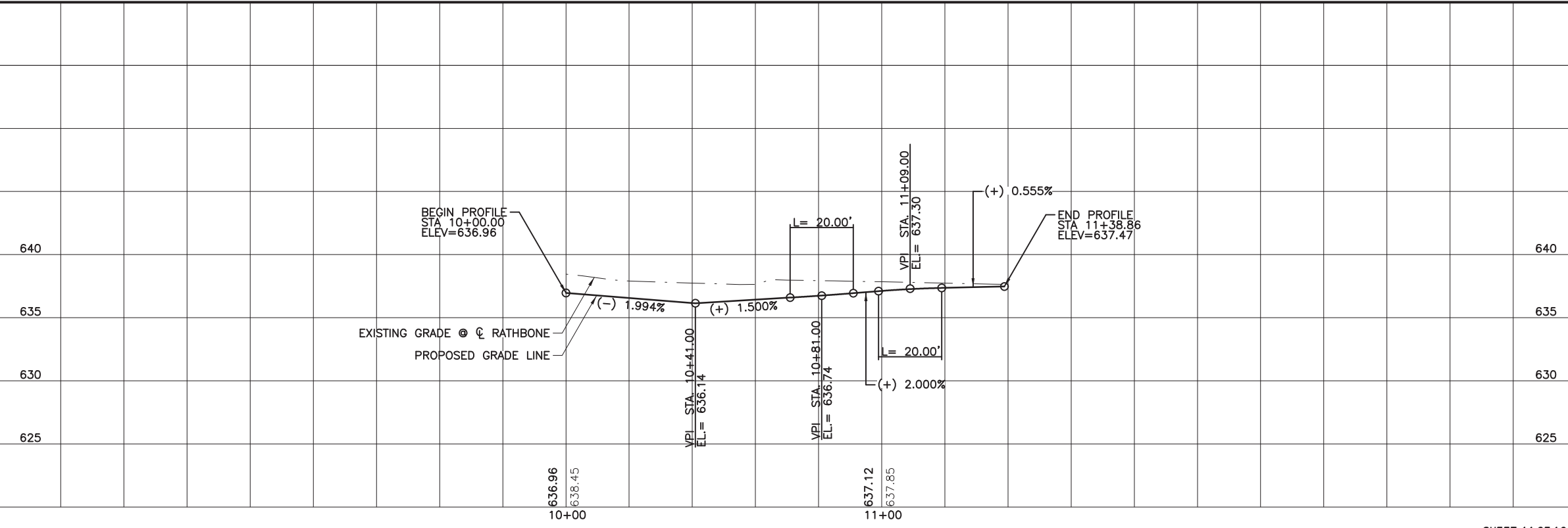
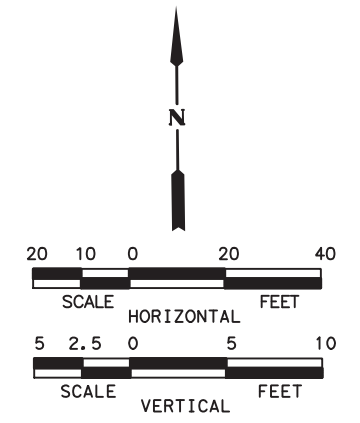
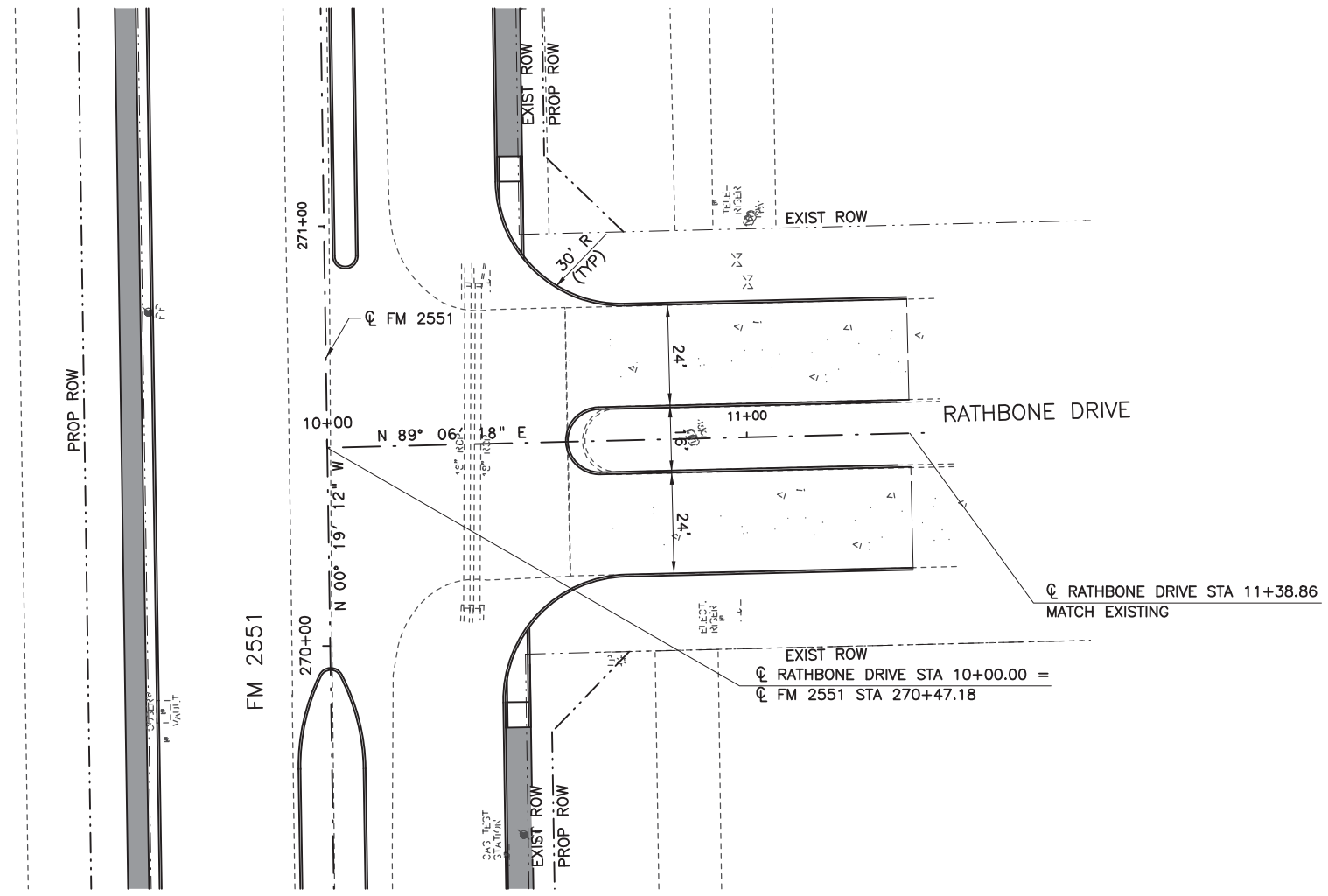
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
**CHAPARRAL DRIVE & ANDOVER DRIVE**

Designed: CPY	FED. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked:	18	COLLIN	2056 01	042
				SHEET NO.:
				164

8/16/2019 9:19:29 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdcp11.dgn



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**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

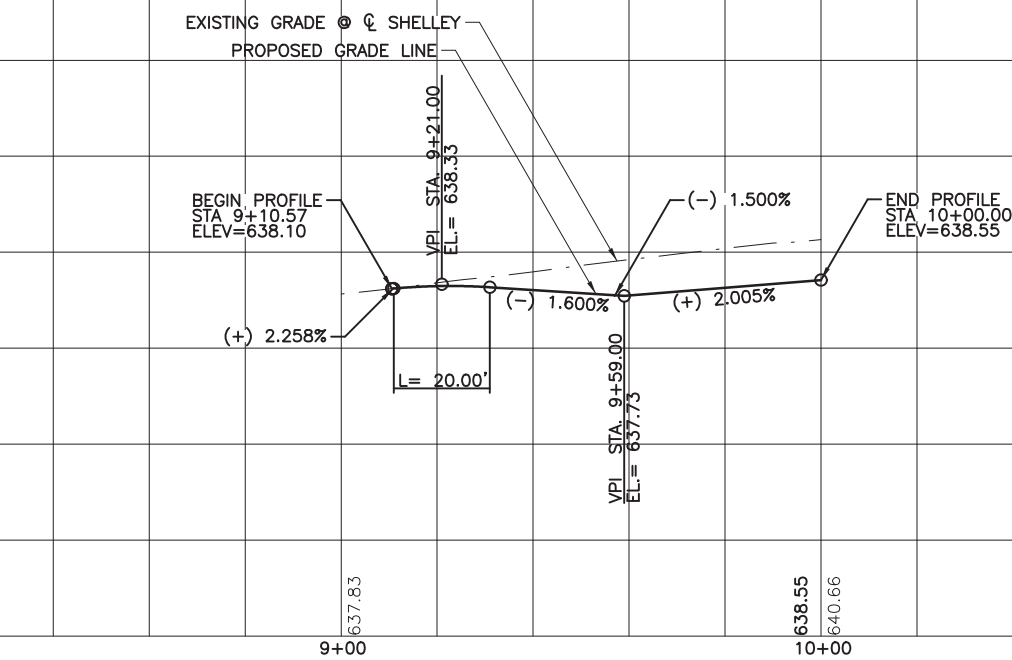
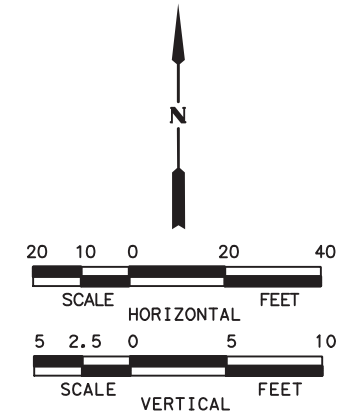
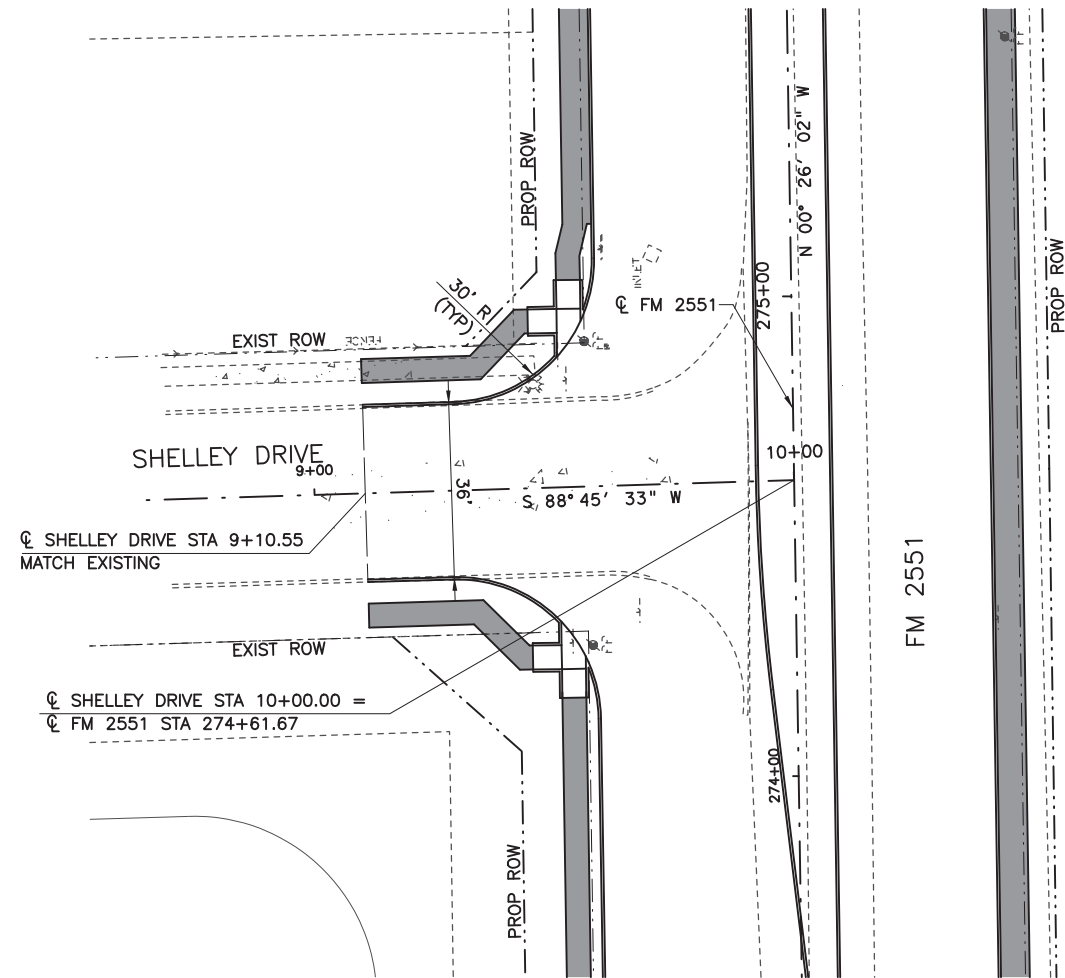
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
**RATHBONE DRIVE**

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 165		

8/16/2019 9:19:35 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcpl2.dgn



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or permit purposes.



Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741

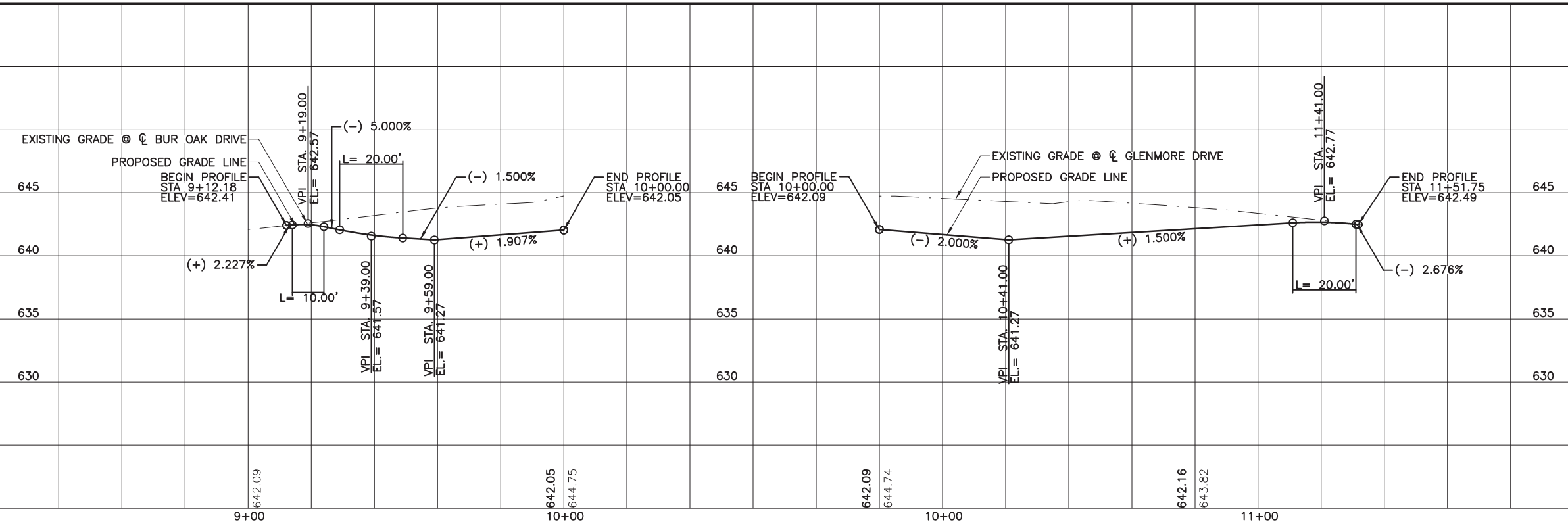
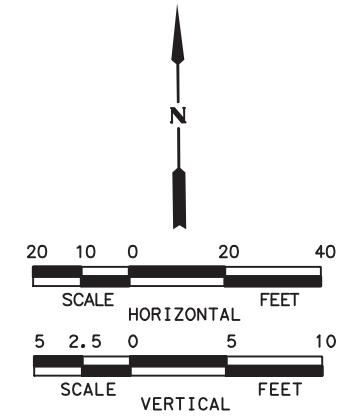
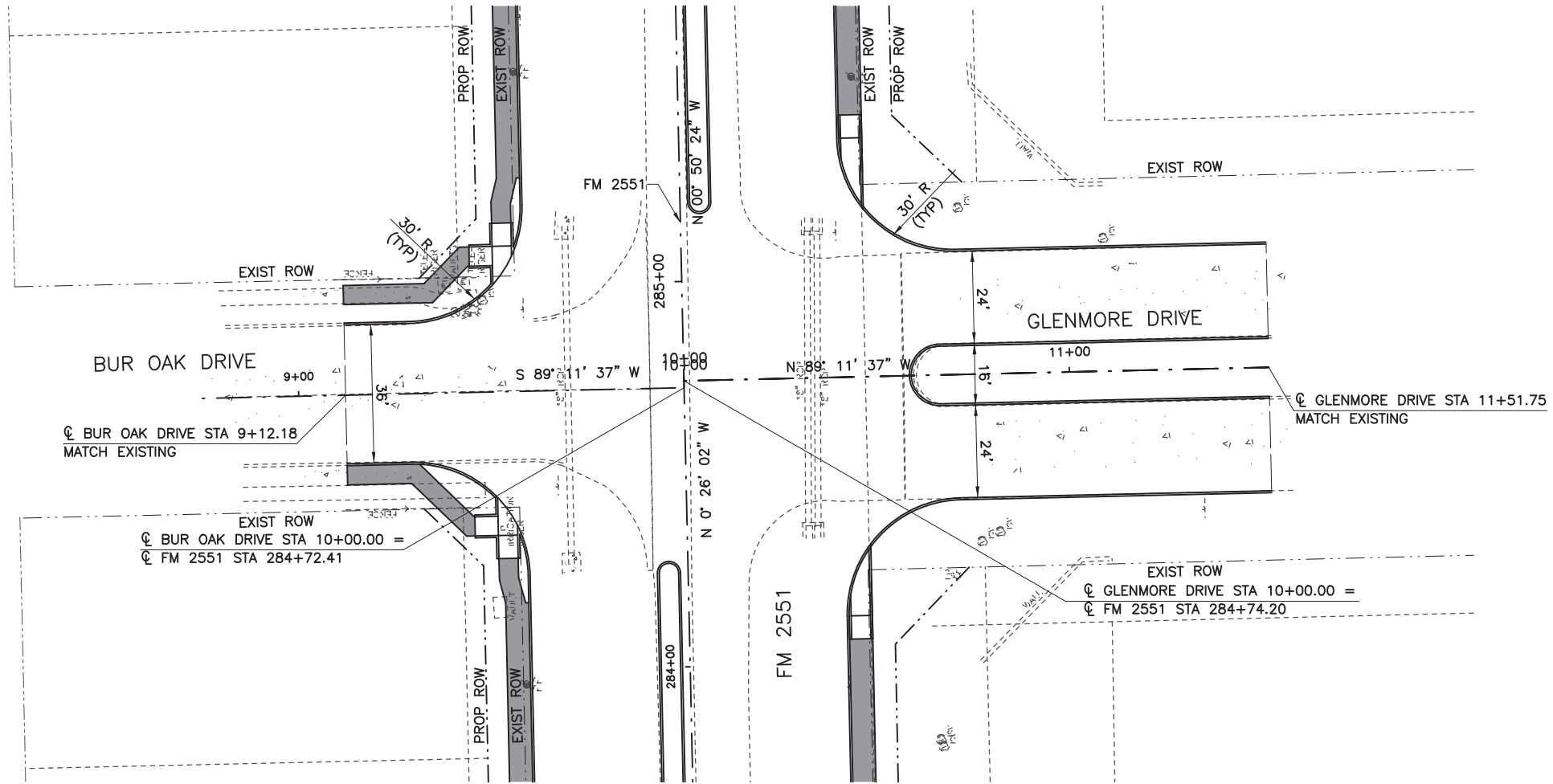


FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
SHELLEY DRIVE

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.		
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551		
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
Checked:	18	COLLIN	2056	01	042	166	

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or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

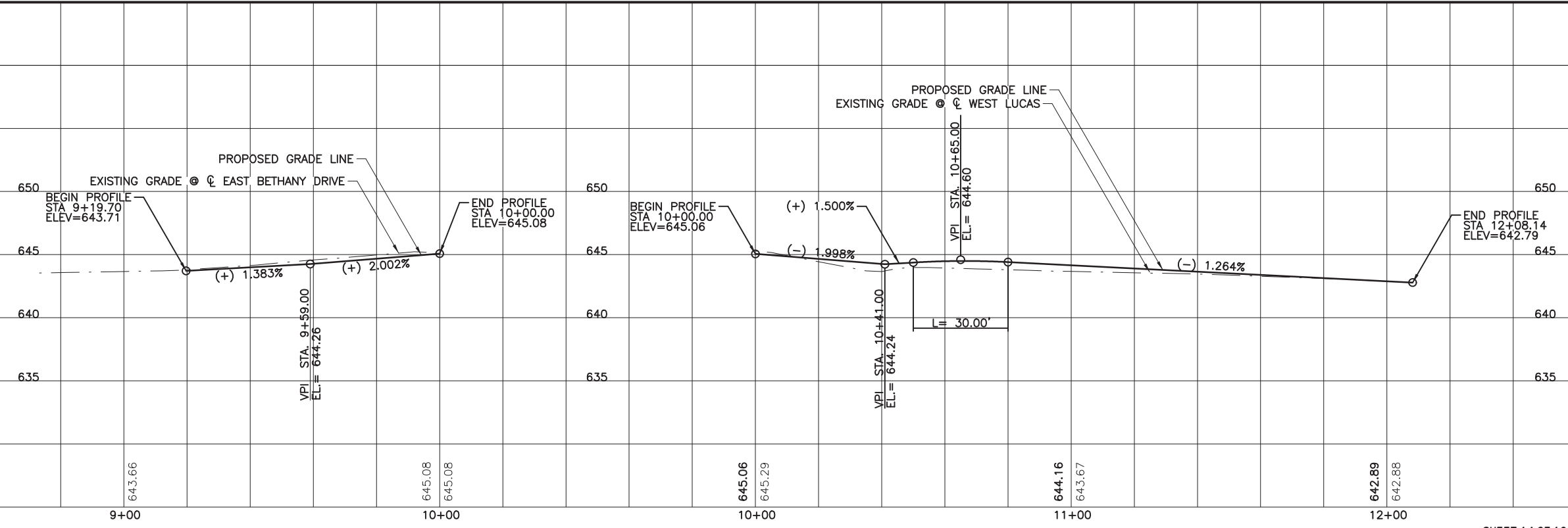
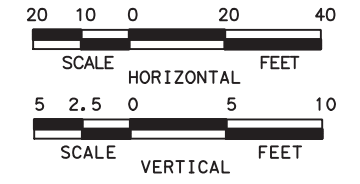
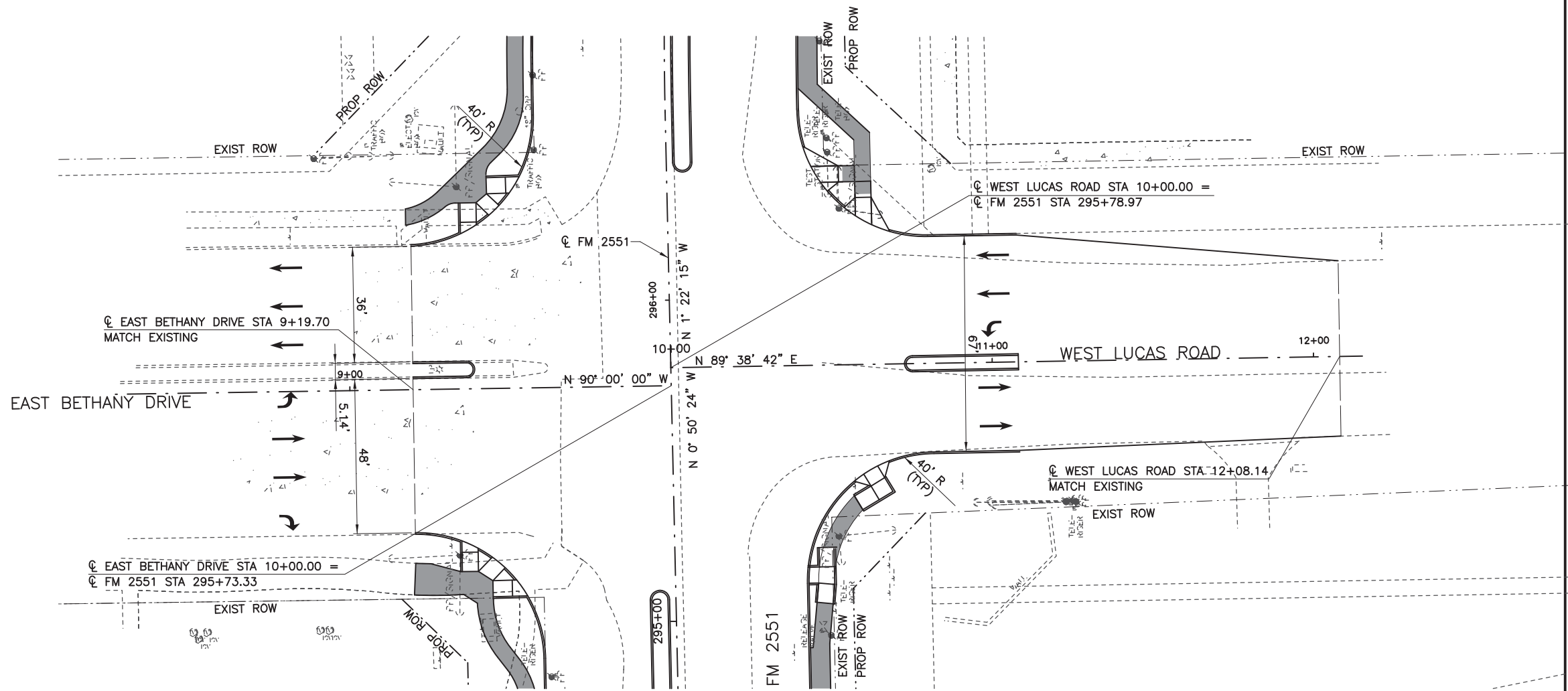
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
BUR OAK DRIVE & GLENMORE DRIVE

Designed:	CPY	FED. PROJ. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
Checked:	18	COLLIN	2056	01	042
					SHEET NO. 167

8/16/2019 9:19:46 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rdcp14.dgn



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**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO. REVISION BY DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

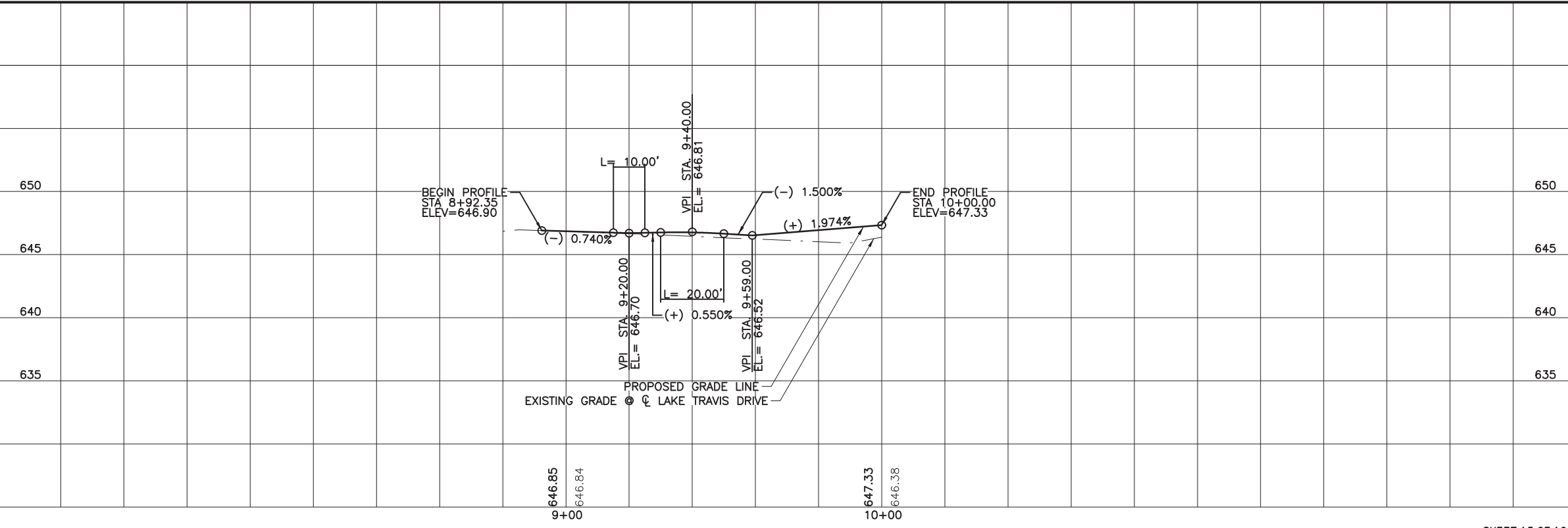
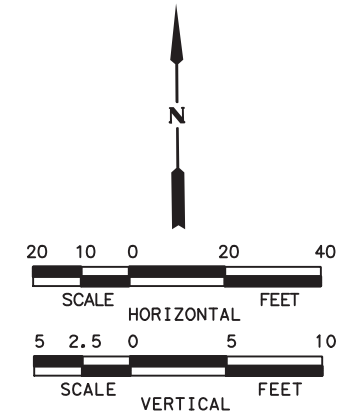
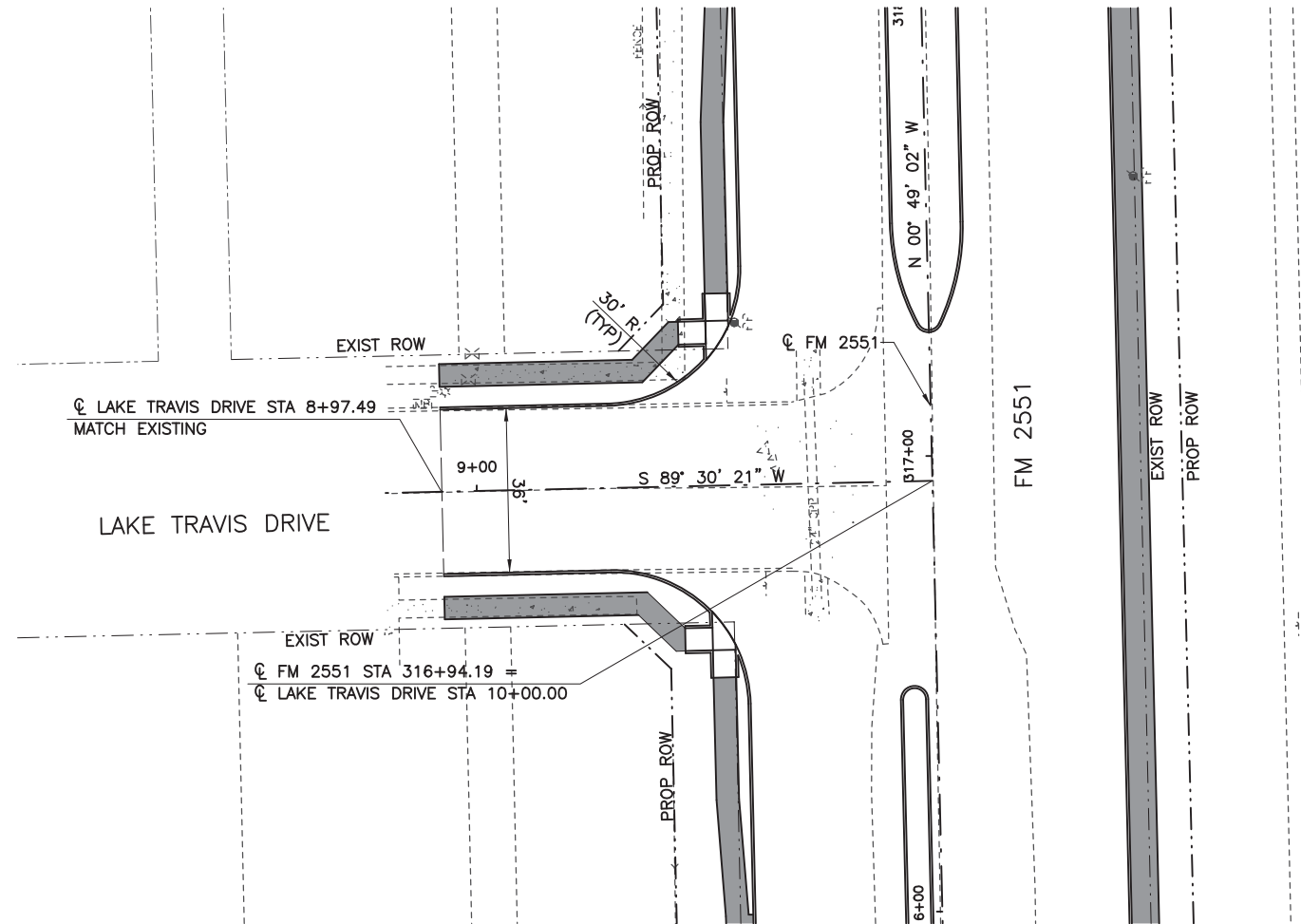
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
**EAST BETHANY DRIVE & WEST LUCAS ROAD**

Designed: CPY	FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked: 18	COLLIN	2056	01	042
				SHEET NO. 168

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 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

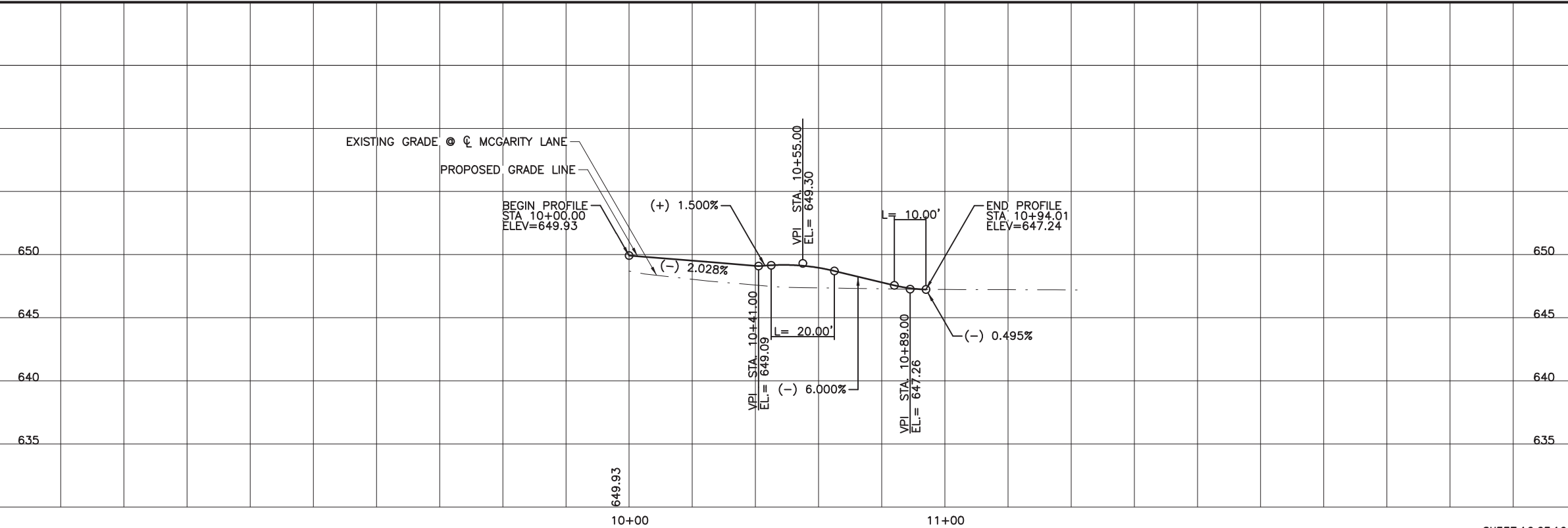
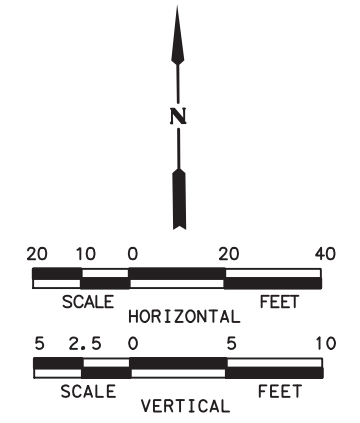
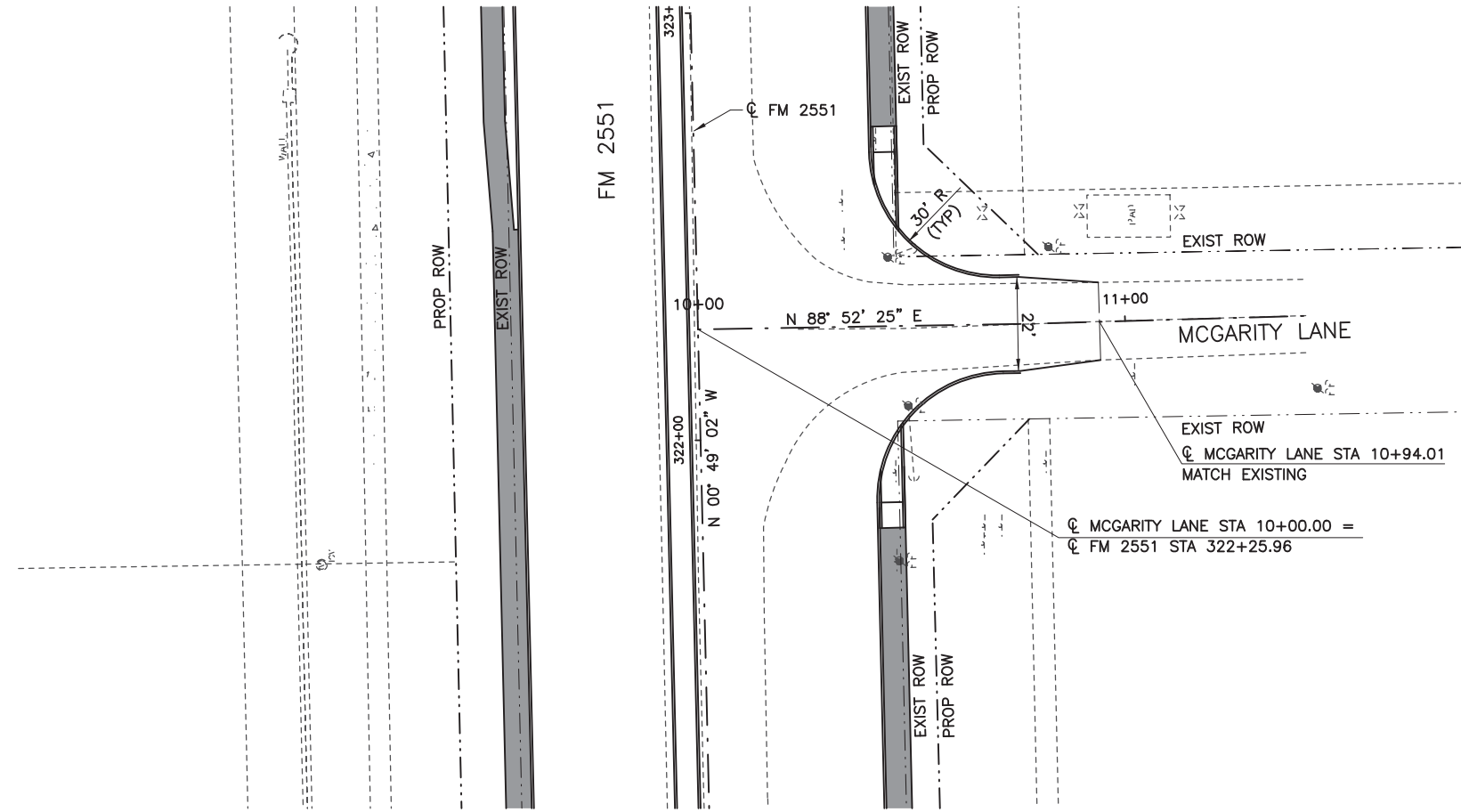
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
 LAKE TRAVIS DRIVE

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:			DIST. COUNTY	CONTROL SECTION NO.	JOB NO. SHEET NO.
Checked:	18		COLLIN	2056 01 042	169

8/16/2019 9:19:58 AM aklocinski pw:/Active Projects/COLLIN/201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcpl6.dgn



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 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

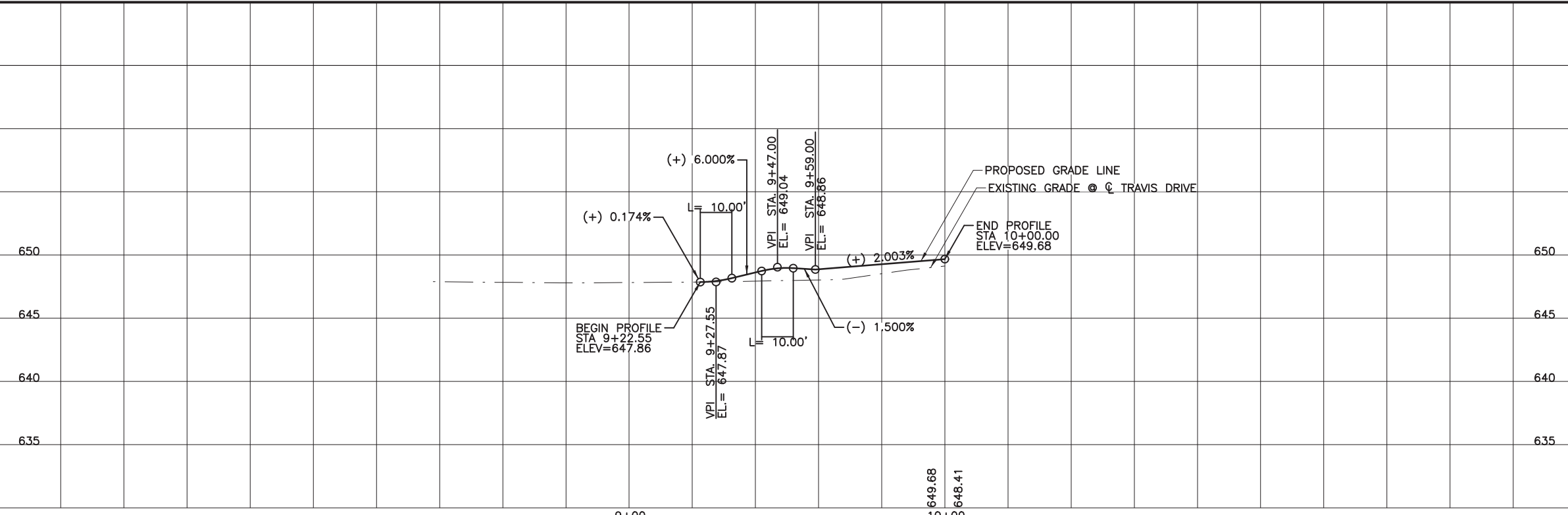
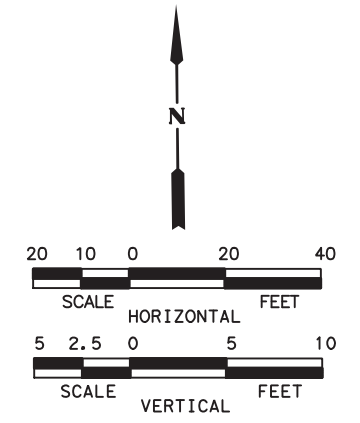
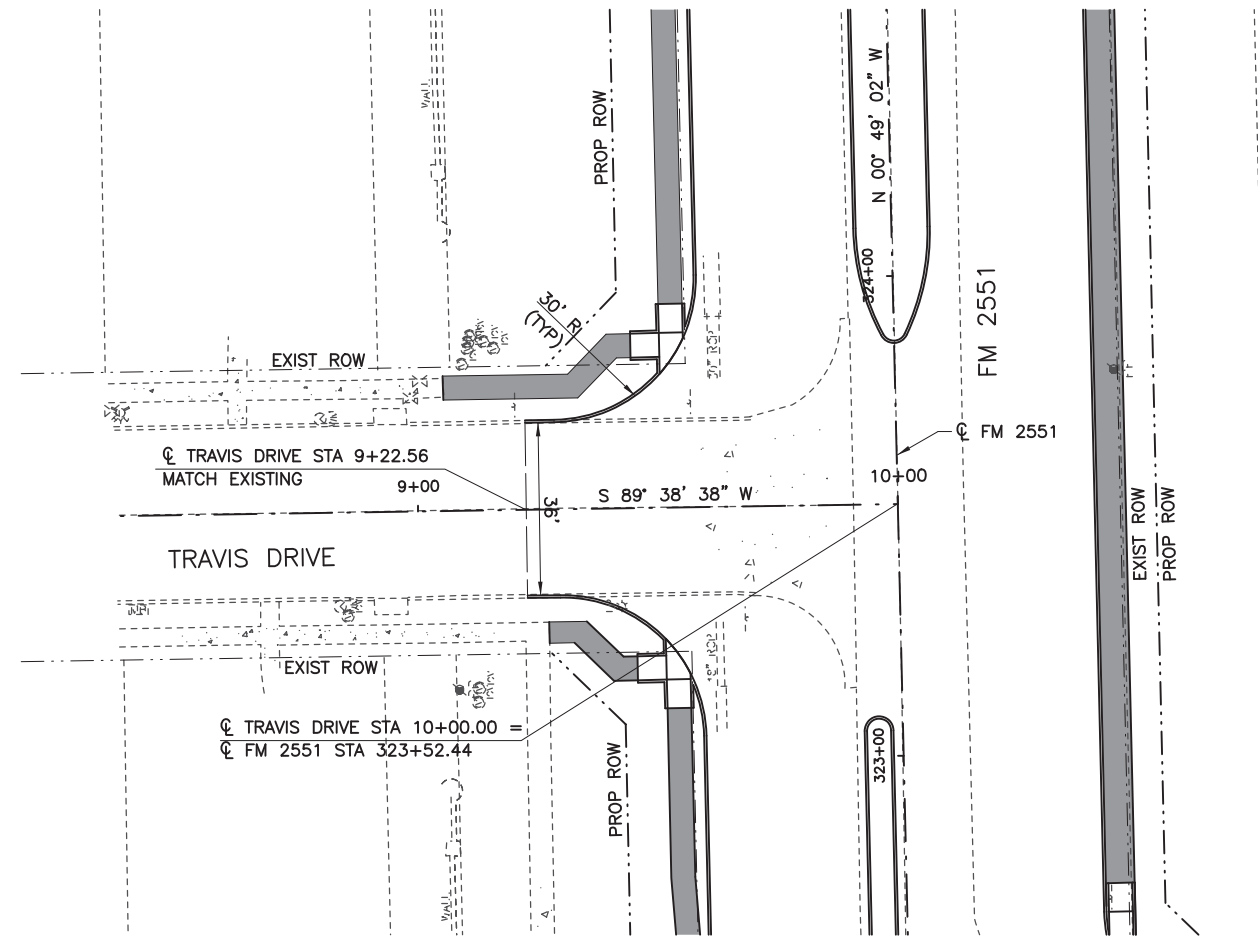
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
 McGARITY DRIVE

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 170		

8/16/2019 9:20:04 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp17.dgn



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 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

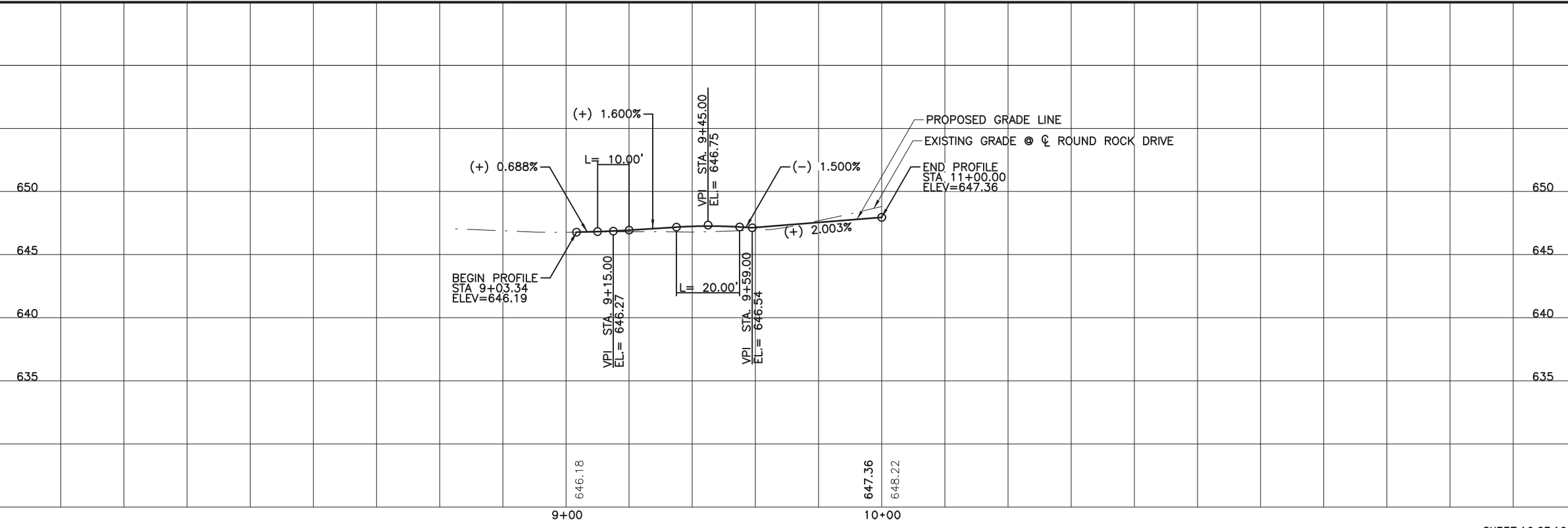
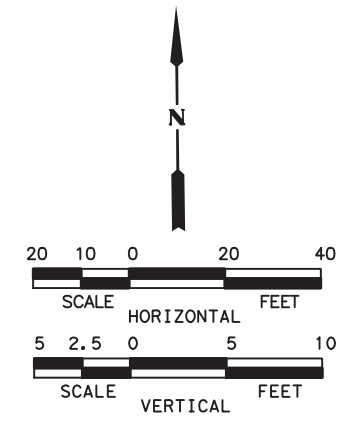
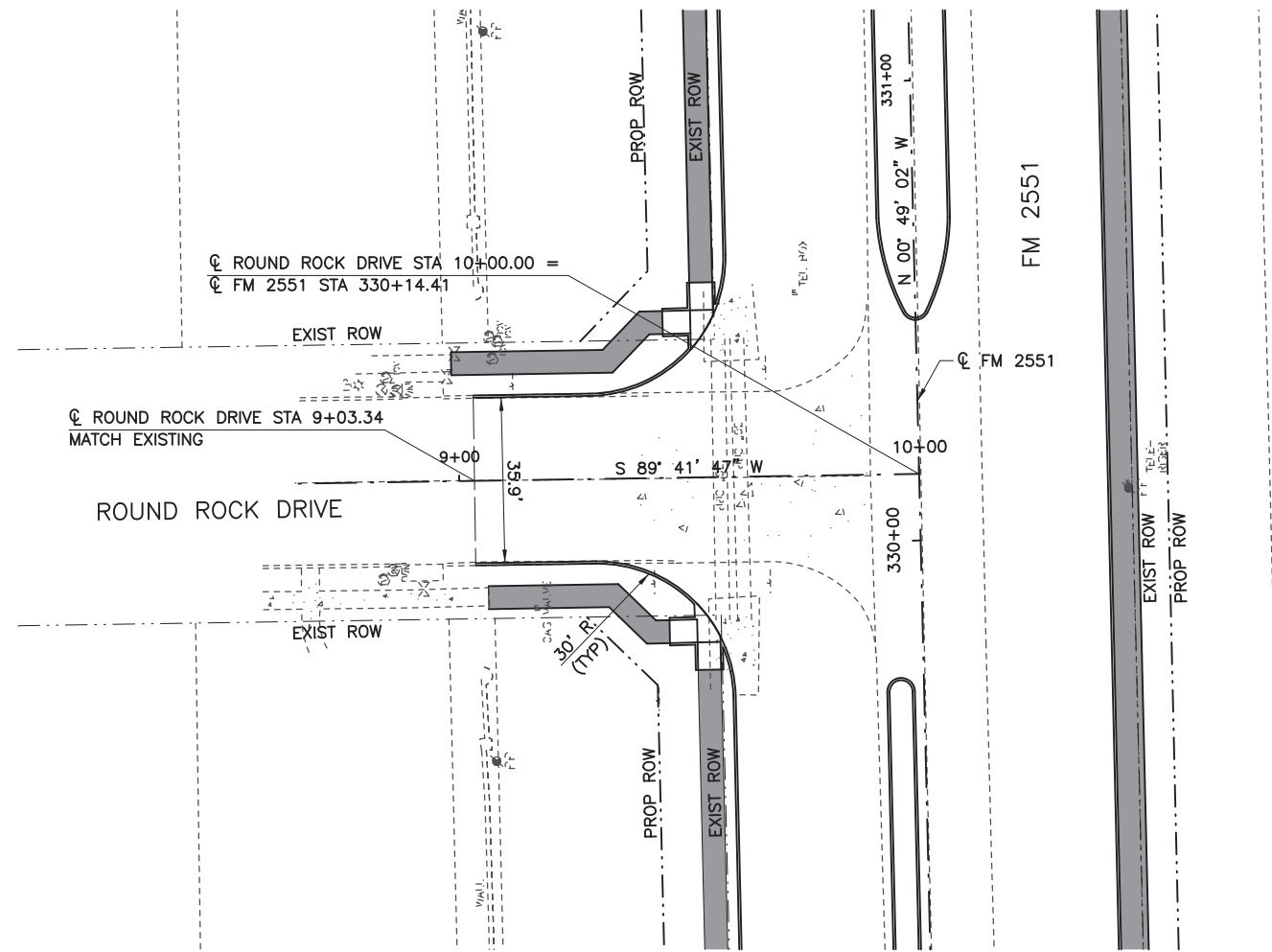
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
 TRAVIS DRIVE

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:			DIST. COUNTY	CONTROL NO. SECTION NO.	JOB NO. SHEET NO.
Checked:	18		COLLIN	2056 01 042	171



8/16/2019 9:20:09 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDcp18.dgn



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 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

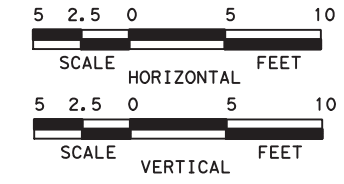
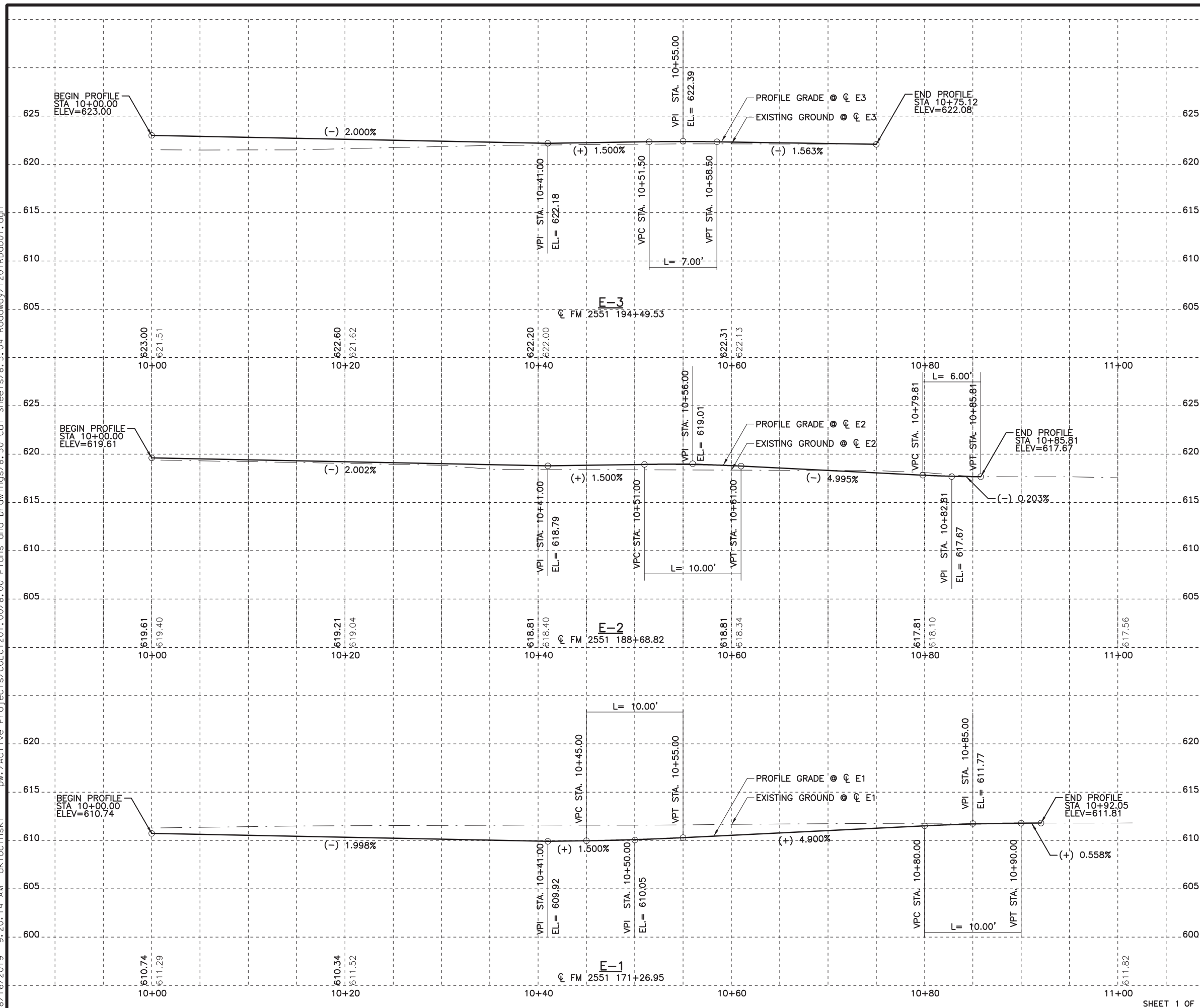
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**CROSS STREET PLAN & PROFILE**  
**ROUND ROCK DRIVE**

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY COLLIN	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 172		

8/16/2019 9:20:14 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rd001.dgn



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or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

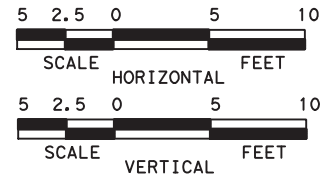
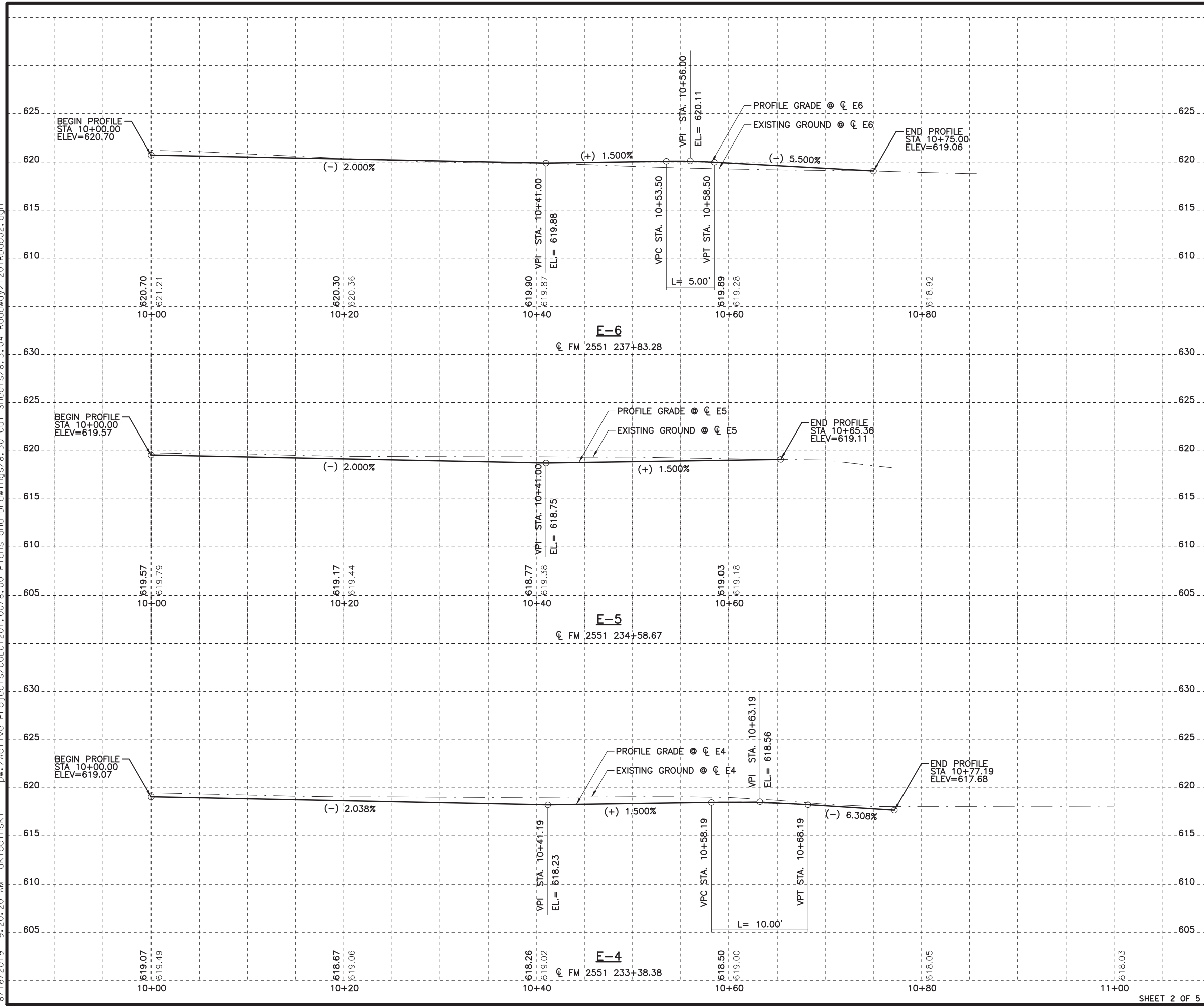
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRIVEWAY PROFILES**  
E-1 THRU E-3

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 173		

8/16/2019 9:20:20 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rd002.dgn



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**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

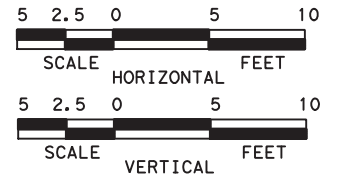
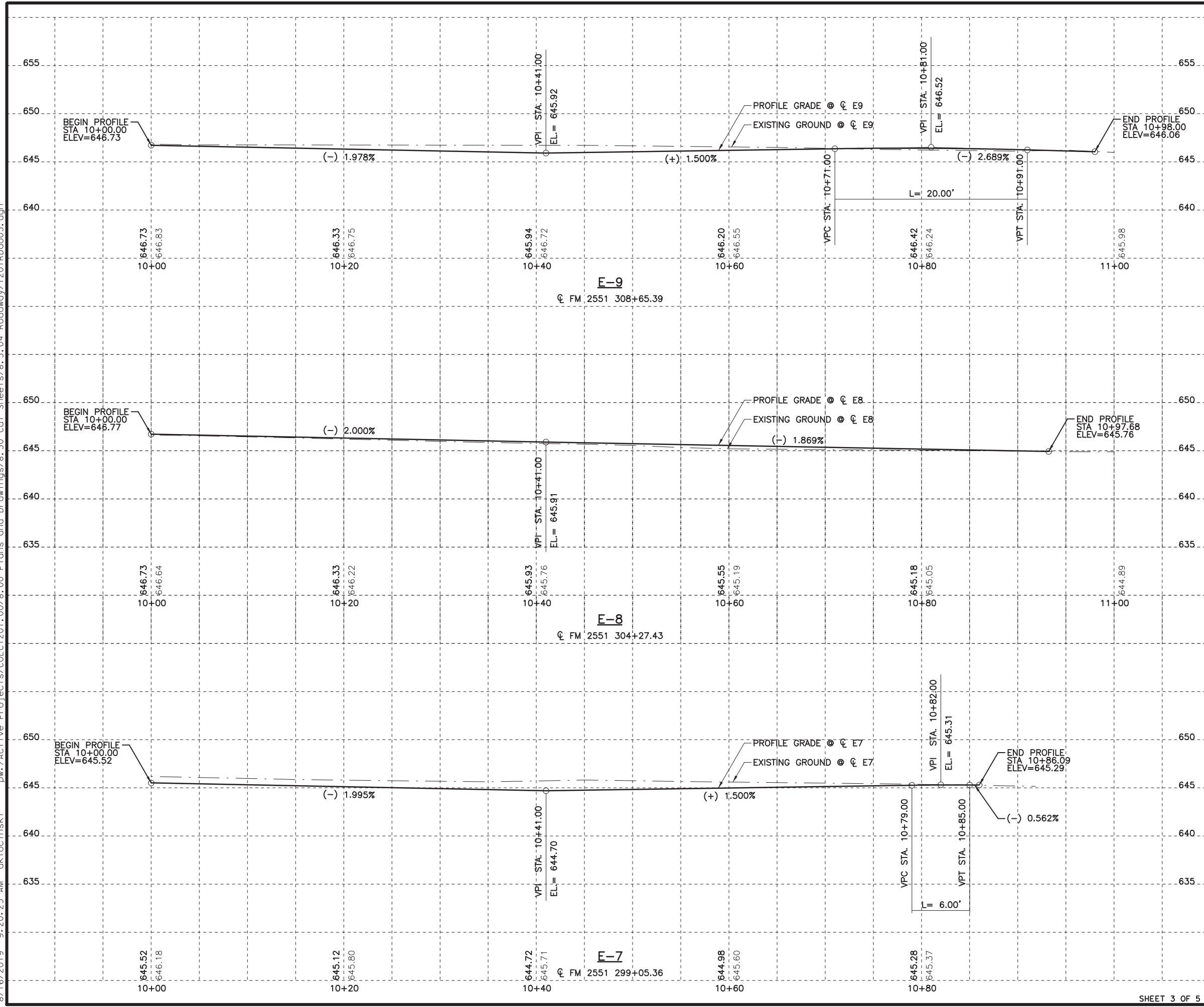
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**DRIVEWAY PROFILES**  
 E-4 THRU E-6

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 174		

8/16/2019 9:20:25 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rd003.dgn



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 or permit purposes.

**CP&Y**  
 Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

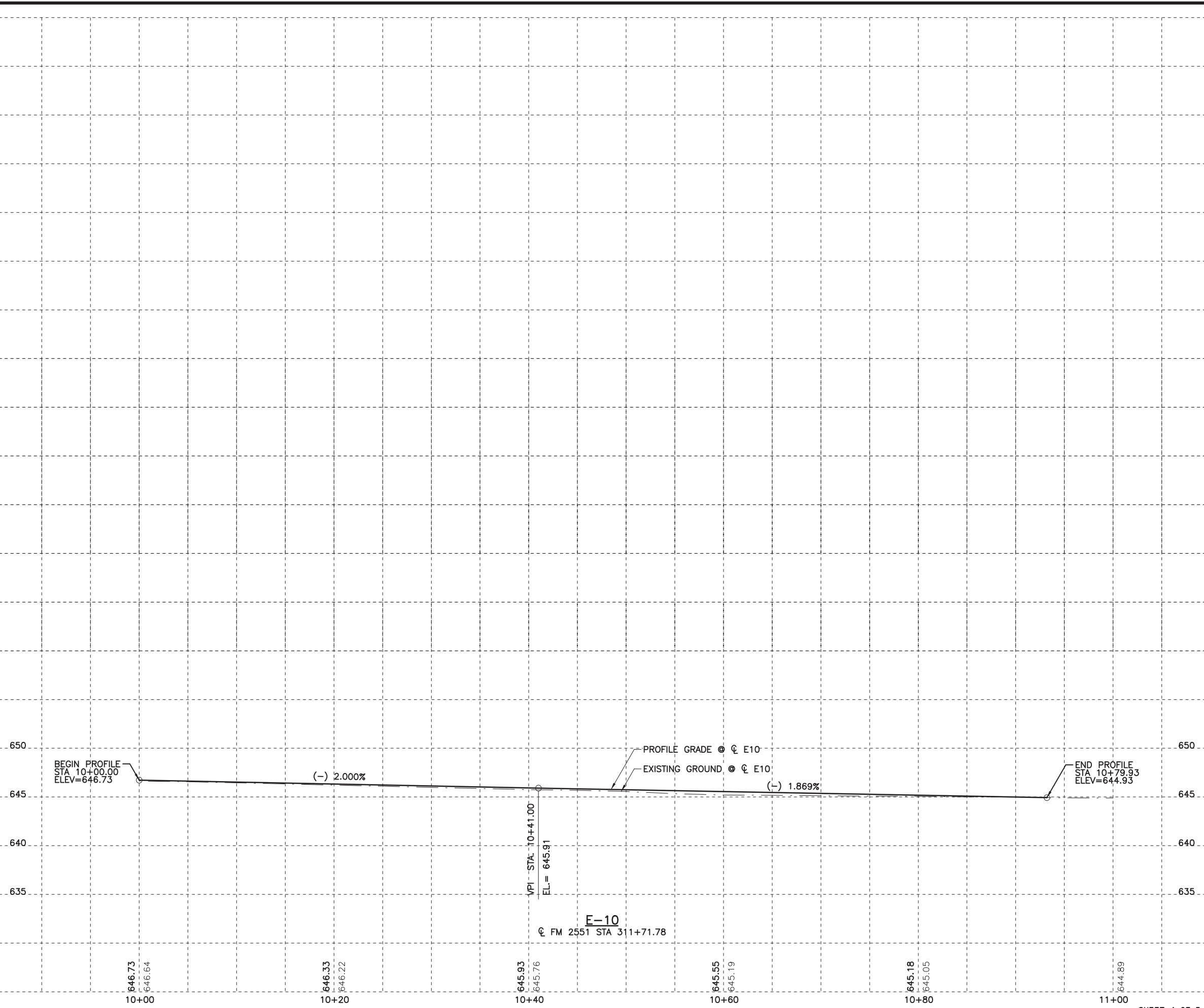
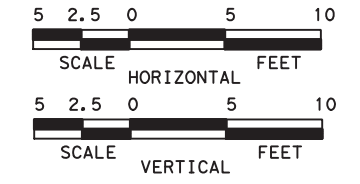
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
 FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**DRIVEWAY PROFILES**  
 E-7 THRU E-9

Designed: CPY	FED. RD. DIST. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.:	COUNTY:	CONTROL NO.:	SECTION NO.:
Checked:	18	COLLIN	2056	01 042
				JOB NO.:
				175
				SHEET NO.:
				175

8/16/2019 9:20:30 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDdo04.dgn



BEGIN PROFILE  
STA 10+00.00  
ELEV=646.73

(-) 2.000%

VPI - STA: 10+41.00  
EL = 645.91

PROFILE GRADE ● @ E10  
EXISTING GROUND ● @ E10

(-) 1.869%

END PROFILE  
STA 10+79.93  
ELEV=644.93

E-10

FM 2551 STA 311+71.78

646.73  
646.64  
10+00

646.33  
646.22  
10+20

645.93  
645.76  
10+40

645.55  
645.19  
10+60

645.18  
645.05  
10+80

644.89  
11+00

100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741



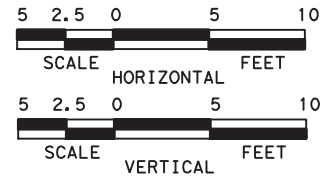
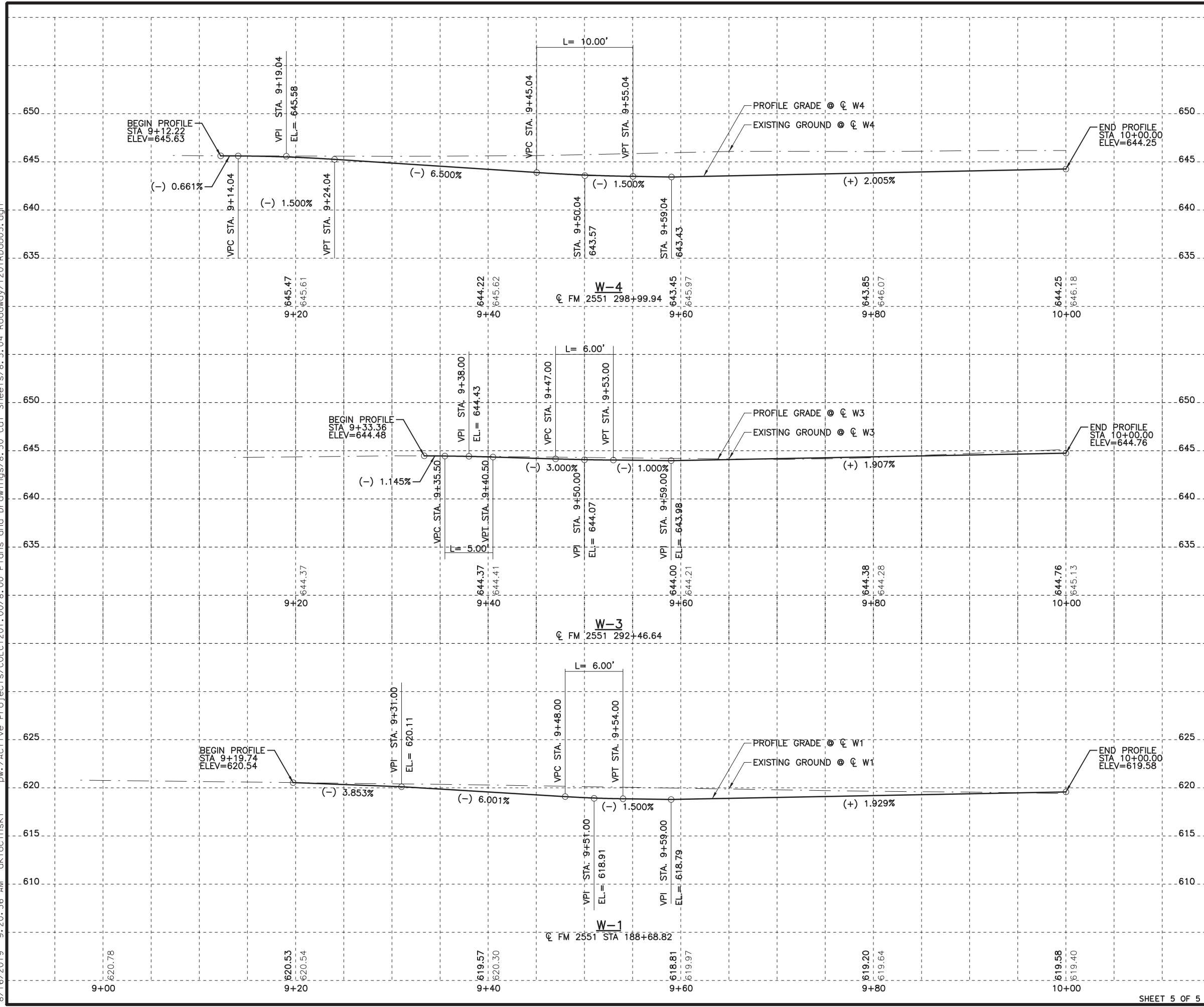
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRIVEWAY PROFILES**

E-10

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	18	COLLIN	2056	01	042
					JOB NO.
					176

8/16/2019 9:20:36 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201Rd005.dgn



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 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

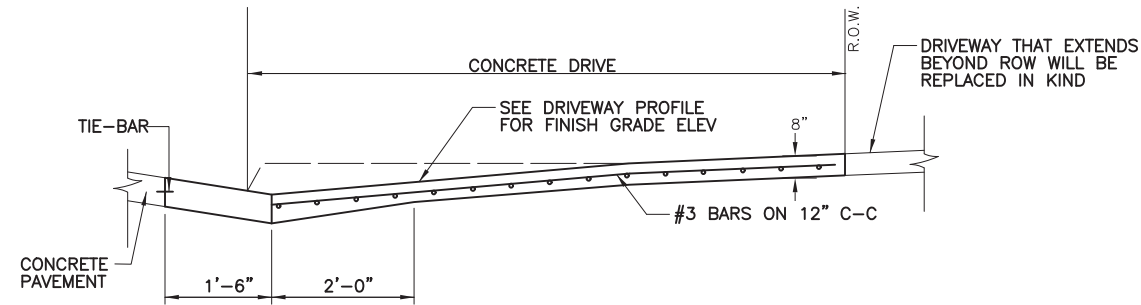
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

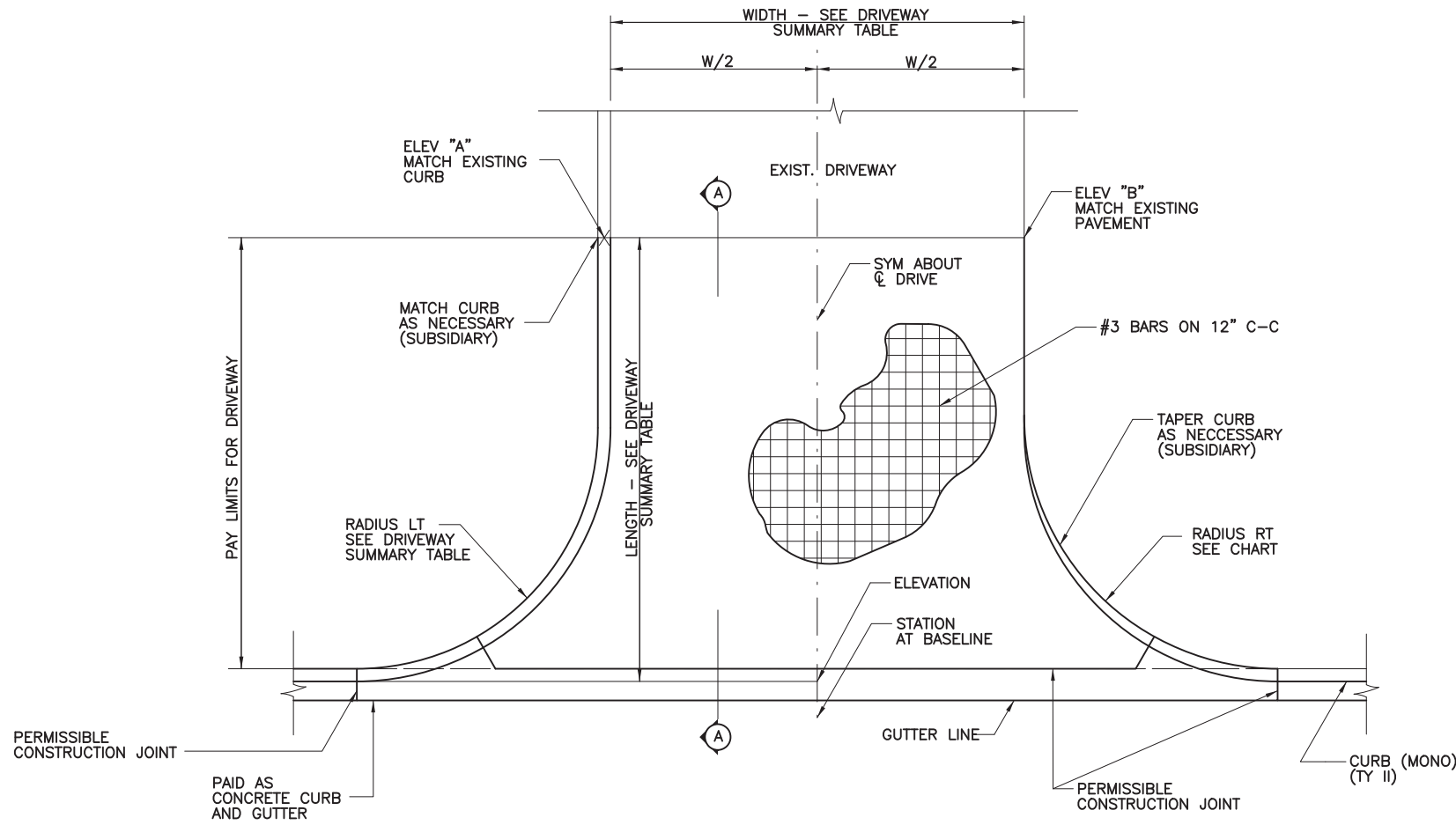
**DRIVEWAY PROFILES**  
 W-1 THRU W-3

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY COLLIN	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: 18	SHEET NO. 177			

8/16/2019 9:20:42 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/1201RDat1s01.dgn



**DRIVEWAY SECTION**  
SCALE: NTS



**DRIVEWAY PLAN**  
SCALE: NTS

100% PLANS ADEQUATE  
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or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

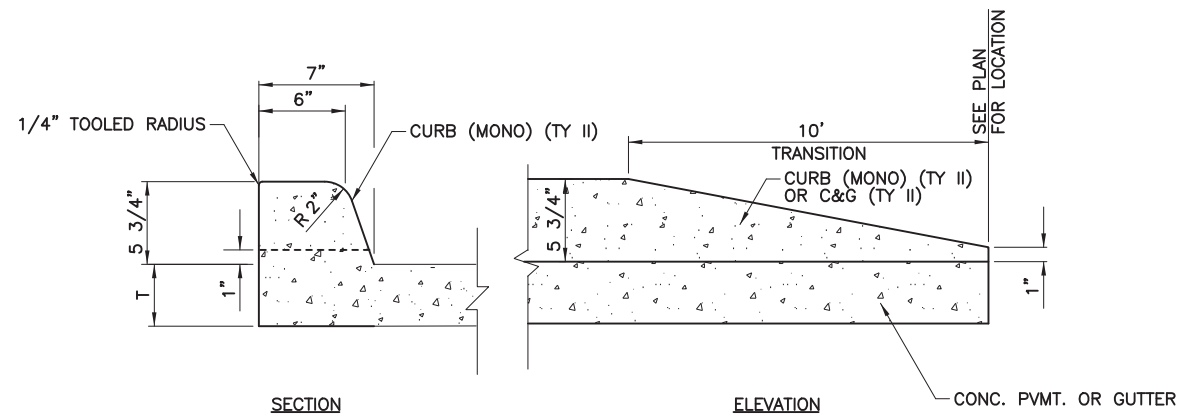
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRIVEWAY DETAILS**

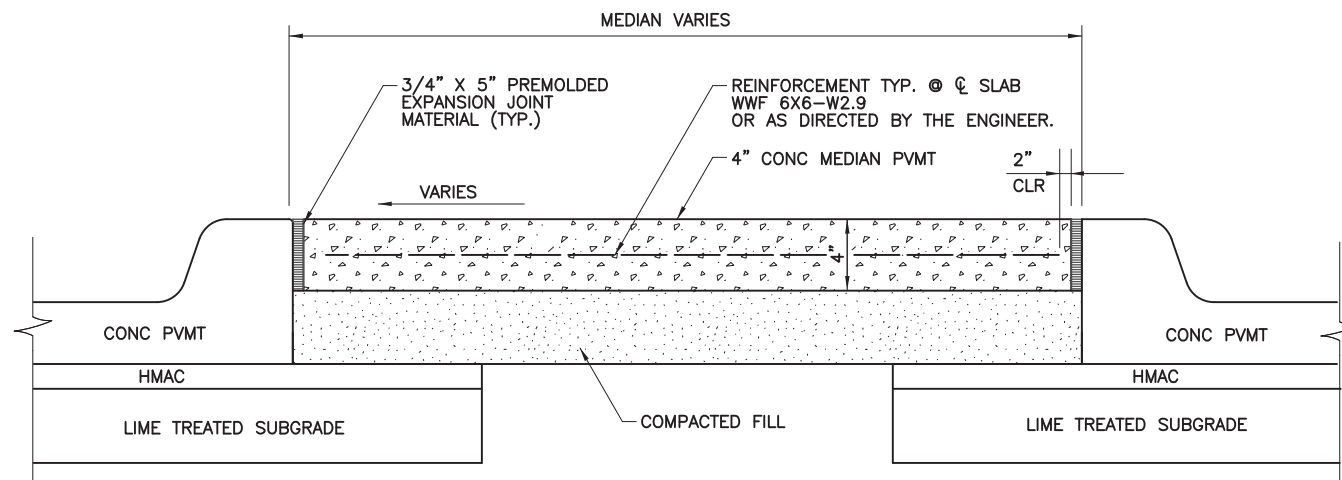
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Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	18	COLLIN	2056	01	042
					SHEET NO.
					178

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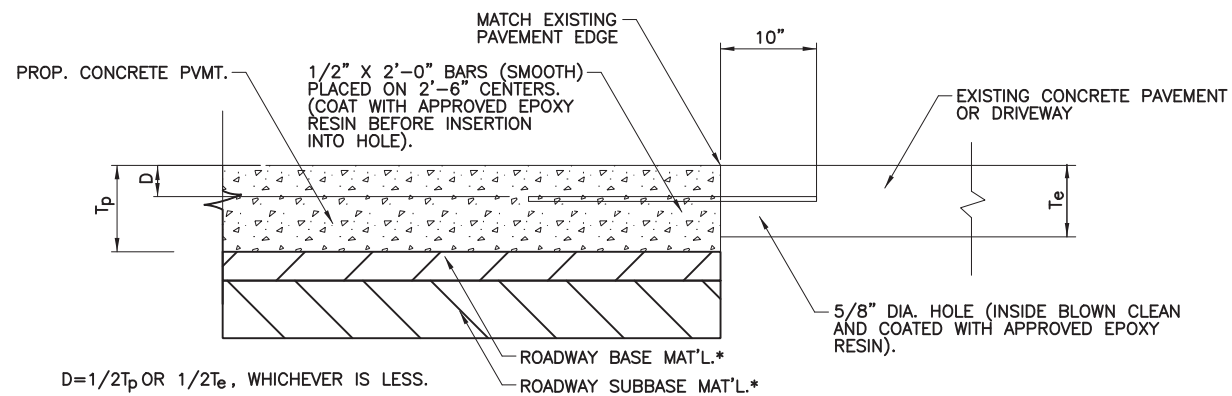
**TY II CURB TRANSITION**

SCALE: NTS  
 CURB TRANSITION WILL BE PAID UNDER ITEM  
 529- " CONC. CURB (MONO) (TY II)"



**TYPICAL CONCRETE MEDIAN SECTION**

SCALE: NTS



**ANCHOR JOINT DETAIL**

SCALE: NTS

TO BE USED WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE PAVEMENT AND DRIVEWAYS. THE COST FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF ITEM 360 "CONCRETE PAVEMENT" AND ITEM 530 "DRIVEWAYS "(CONC.)".

\* REF. ROADWAY TYPICAL SECTIONS.

100% PLANS ADEQUATE  
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 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

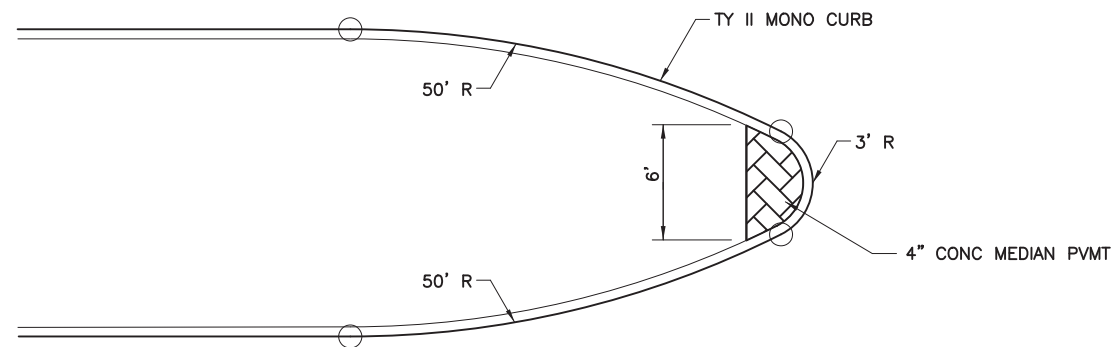
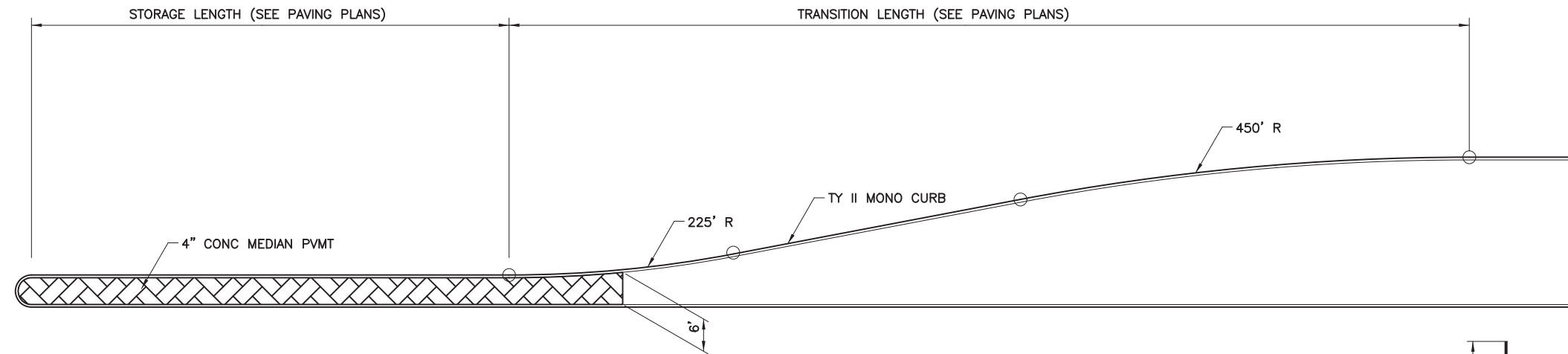
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**MISCELLANEOUS  
 ROADWAY DETAILS**

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 179		

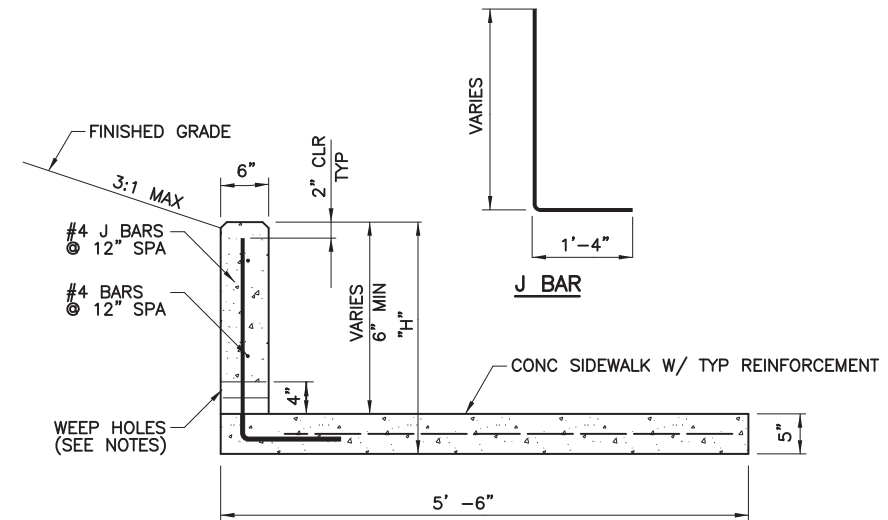


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**TYPICAL MEDIAN DETAILS**

SCALE: NTS

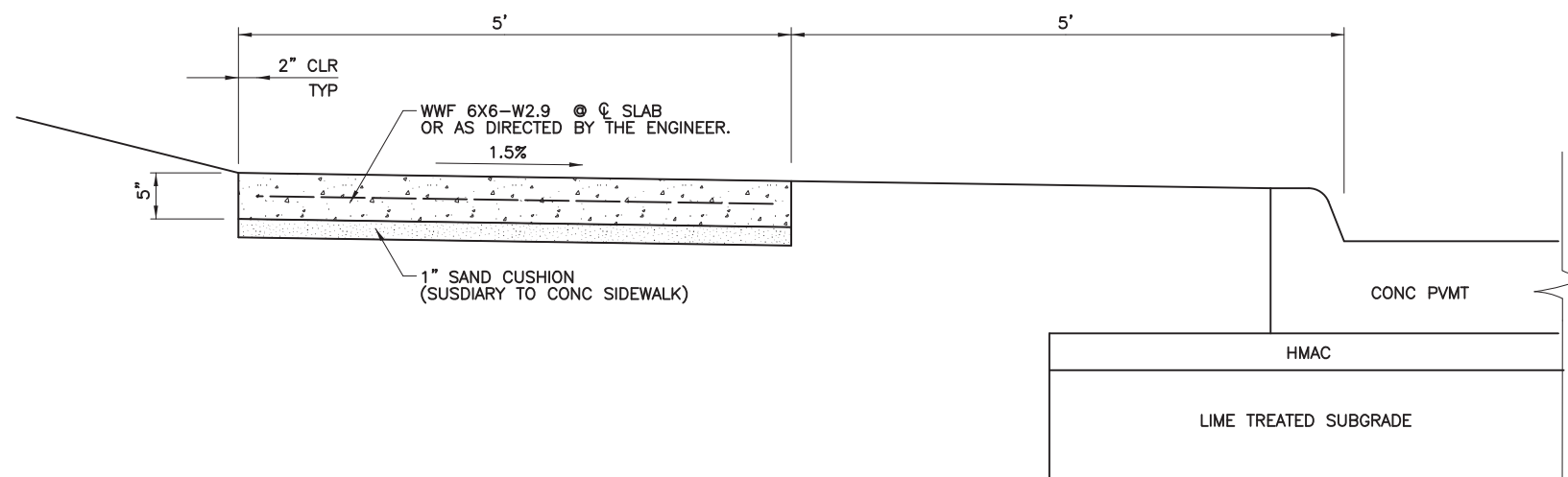


**NOTES:**

- SIDEWALK WALL SHALL BE CONSTRUCTED WITH 3/4" CHAMFER AT ALL EXPOSED CORNERS.
- SIDEWALK WALLS WITH "H" GREATER THAN 12" IN HEIGHT SHALL BE CONSTRUCTED WITH 2" DIA WEEPHOLES AT 10" MAXIMUM SPACING OR AS DIRECTED BY THE ENGINEER.
- WALL SHALL BE BACKFILLED WITH 6" SAND WITHIN 6" OF THE FINISHED GRADE AND COMPACTED. TOPSOIL SHALL BE BACKFILLED OVER SAND TO FINISHED GRADE.
- AN 8" X 8" SECTION OF FILTER CLOTH SHALL BE SECURLY ATTACHED OR ADHERED TO BACK SURFACE OF WALL AND CENTERED OVER EACH WEEPHOLE PRIOR TO BACK-FILLING.

**SIDEWALK WALL**

SCALE: NTS



**TYPICAL SIDEWALK SECTION**

SCALE: NTS

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

TEXAS REGISTERED ENGINEERING FIRM, F-1741

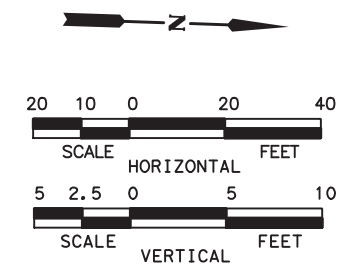
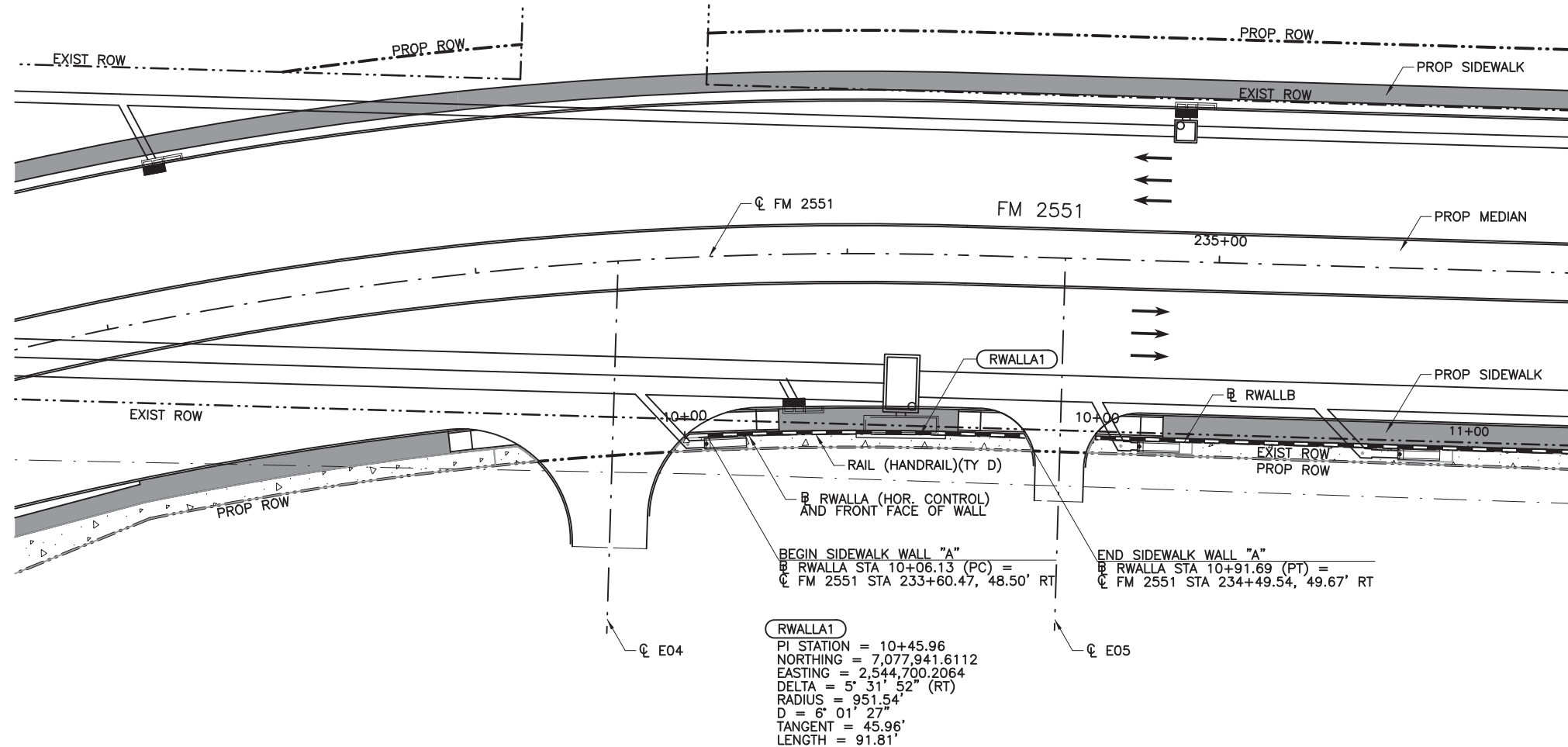
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**MISCELLANEOUS  
ROADWAY DETAILS**

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 180		

8/16/2019 9:20:59 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.05 Walls/1201RDSW01.dgn



**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	86
CONC CURB (TY F1)	LF	86
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	86

100% PLANS ADEQUATE  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

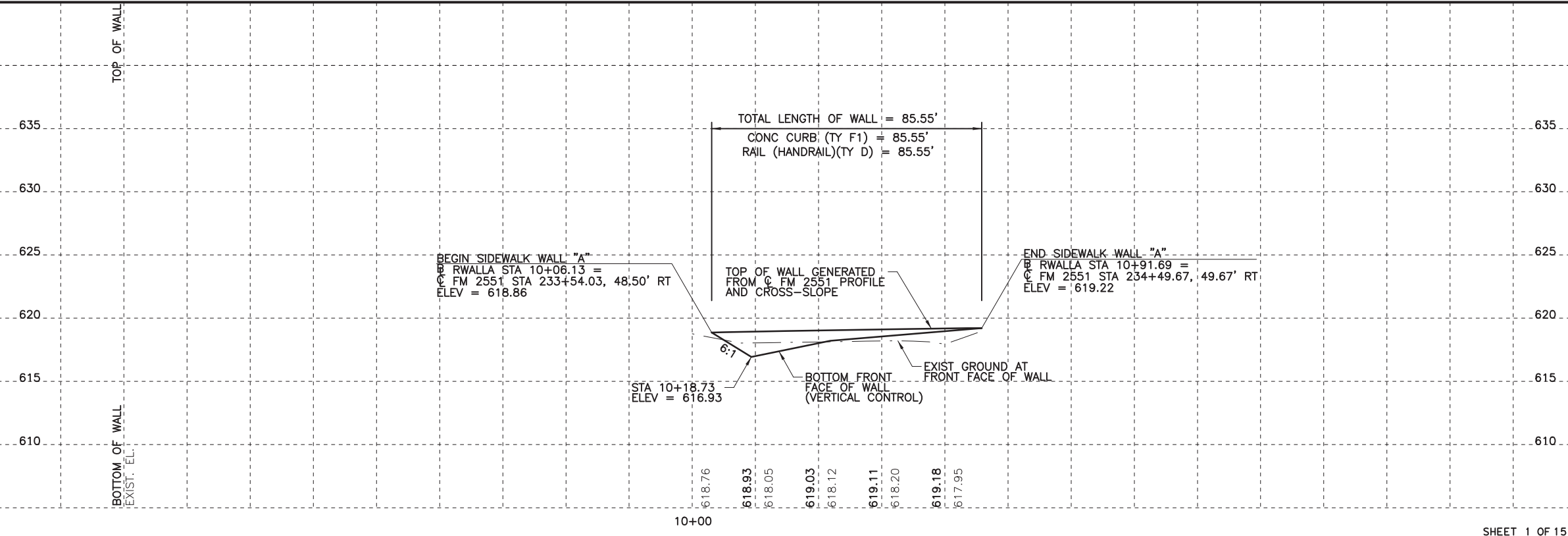
Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

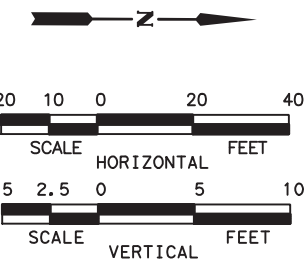
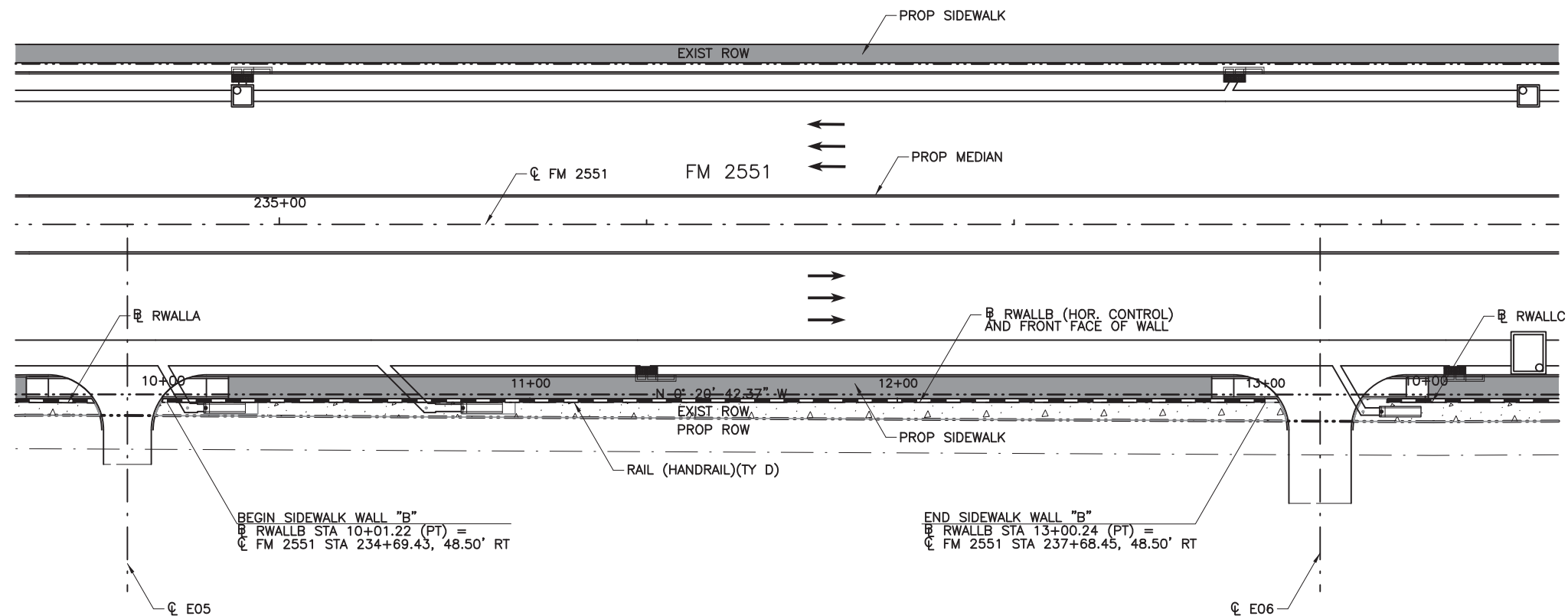
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
 FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
 WALL "A"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY				
Drawn: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Checked: CPY				SHEET NO. 199



8/16/2019 9:21:05 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.05 Walls/1201RDSW02.dgn



**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMMODATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	299
CONC CURB (TY F1)	LF	249
CONC CURB (TY F2)	LF	51
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	299

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

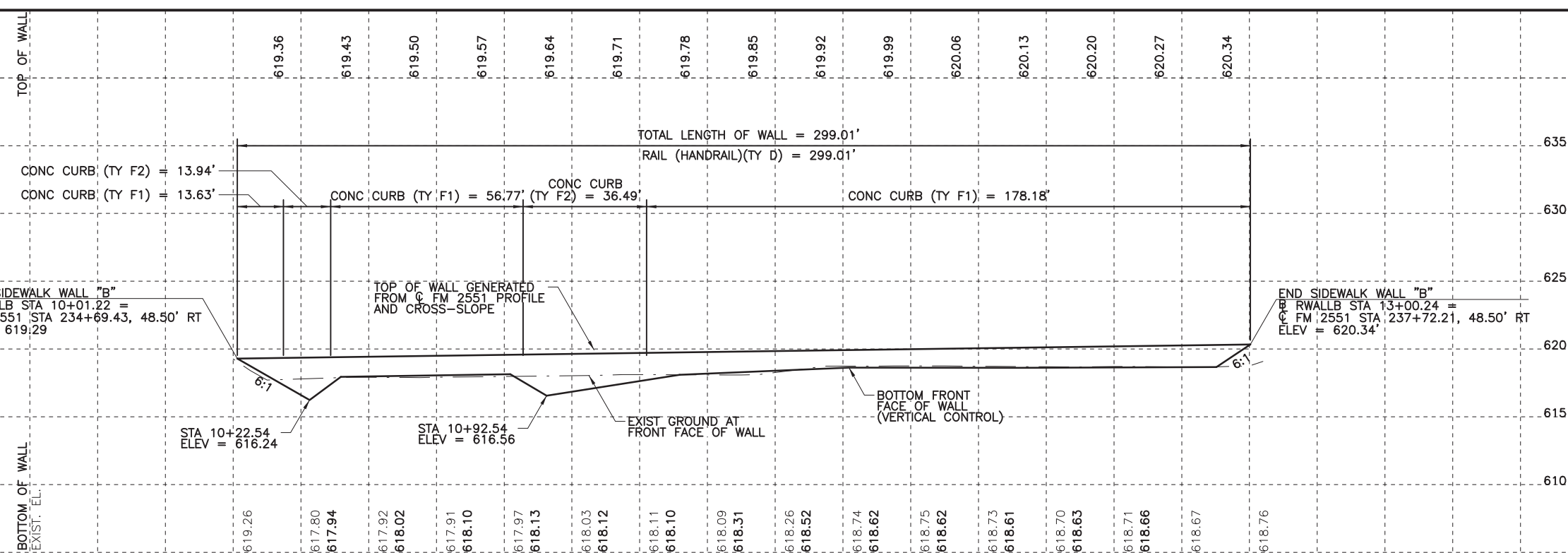
Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

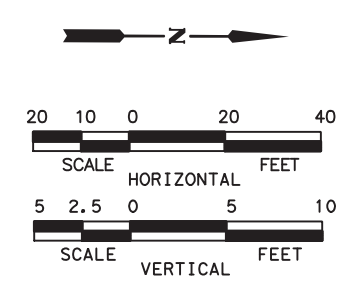
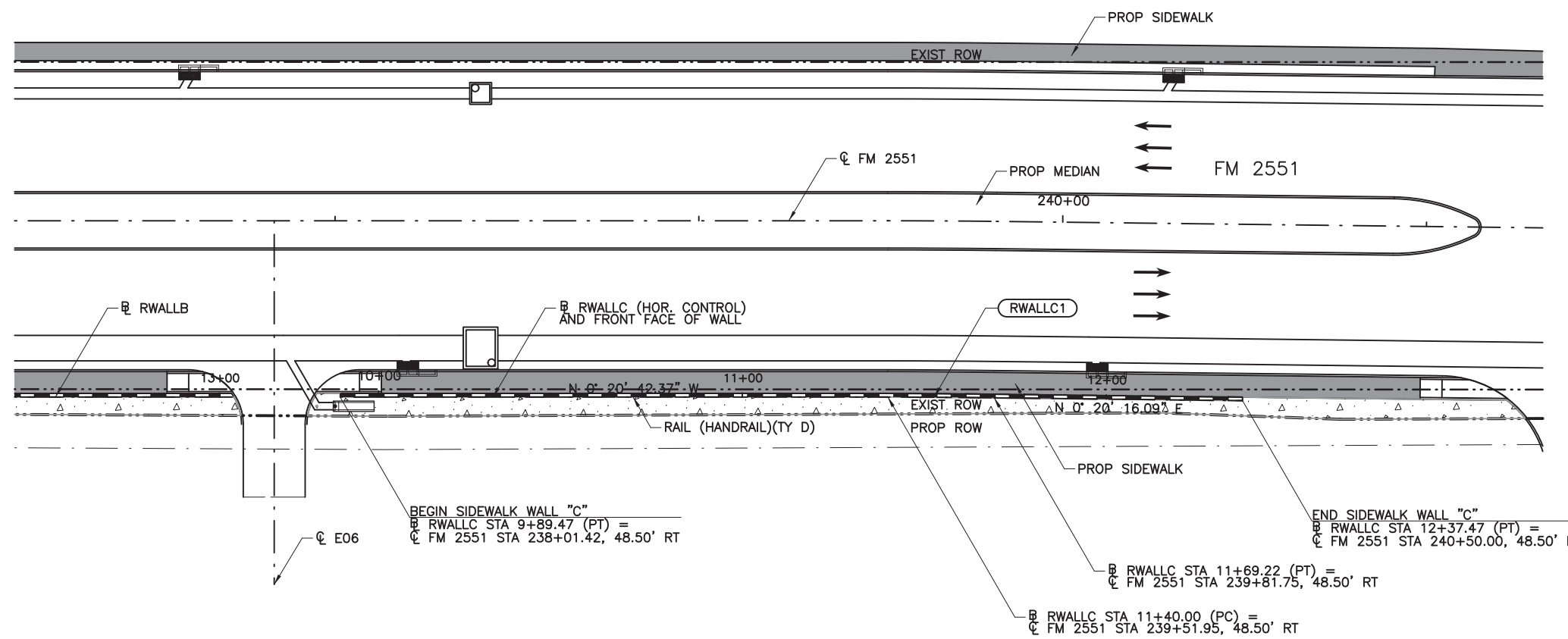
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT**  
**WALL "B"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY				
Drawn: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01 042	JOB NO. 200
Checked: CPY				



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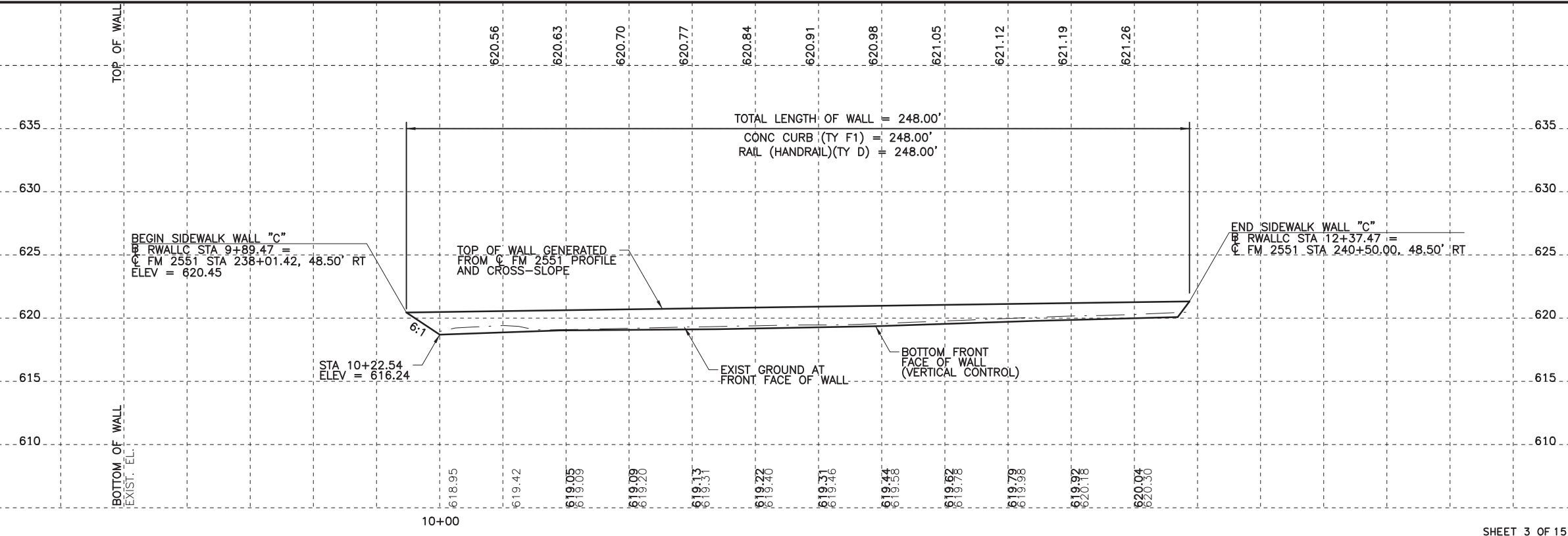


**GENERAL NOTES**

- ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
- CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6")".
- ANY ADJUSTMENTS MADE TO ACCOMMODATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

**RWALLC1**  
 PI STATION = 11+54.61  
 NORTHING = 7,078,504.4548  
 EASTING = 2,544,697.5093  
 DELTA = 0° 40' 58" (RT)  
 RADIUS = 2,451.93'  
 D = 2' 20" 13"  
 TANGENT = 14.61'  
 LENGTH = 29.22'

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	248
CONC CURB (TY F1)	LF	248
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	248



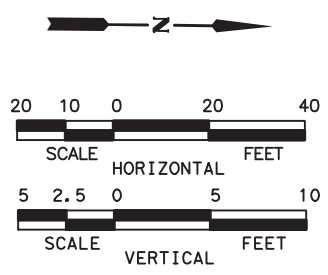
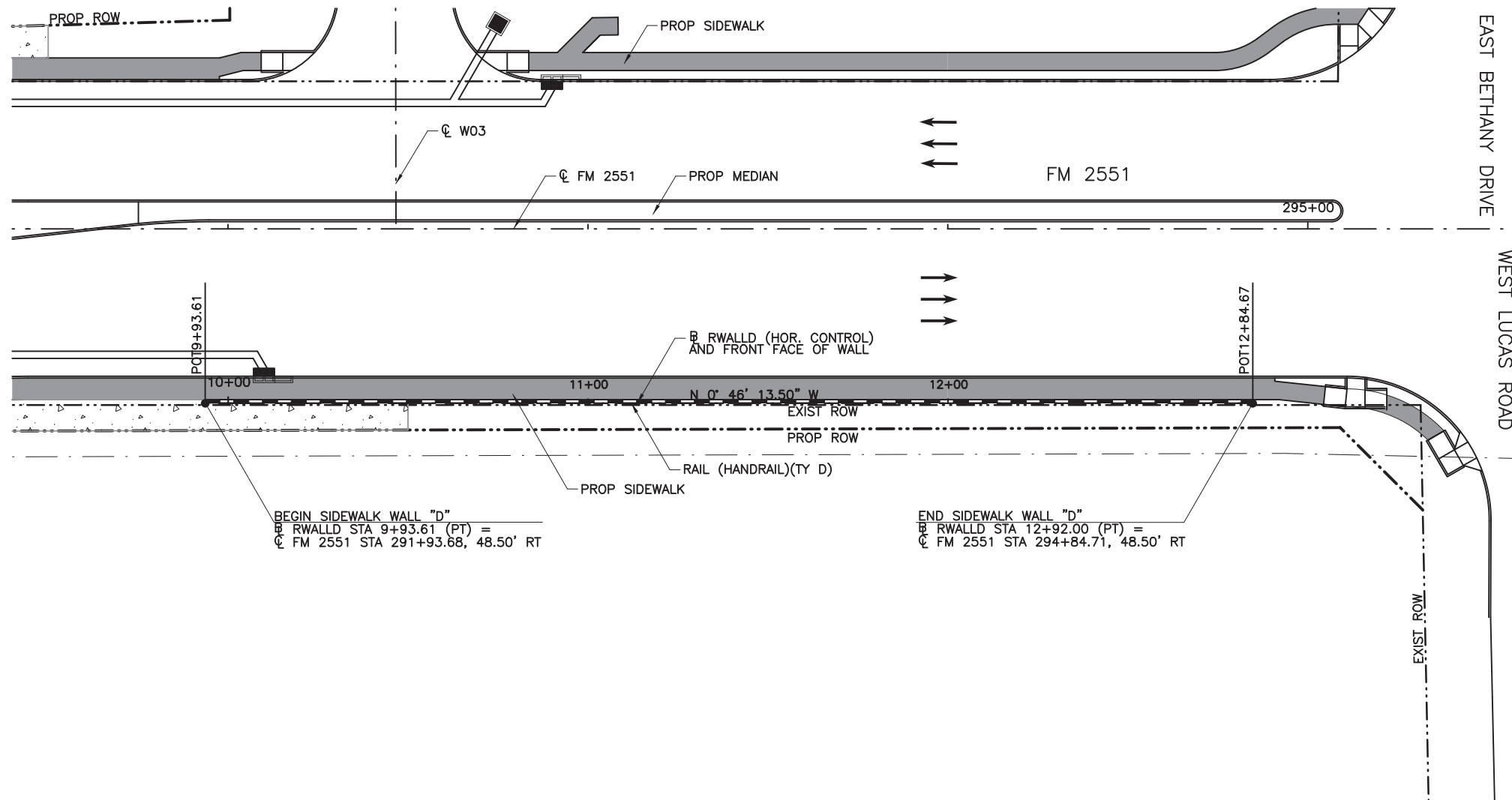
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**CP&Y**  
 Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
 FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
 WALL "C"**

Designed: CPY	FED. RD. DIST. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO. 201



**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	291
CONC CURB (TY F1)	LF	151
CONC CURB (TY F2)	LF	141
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	291

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

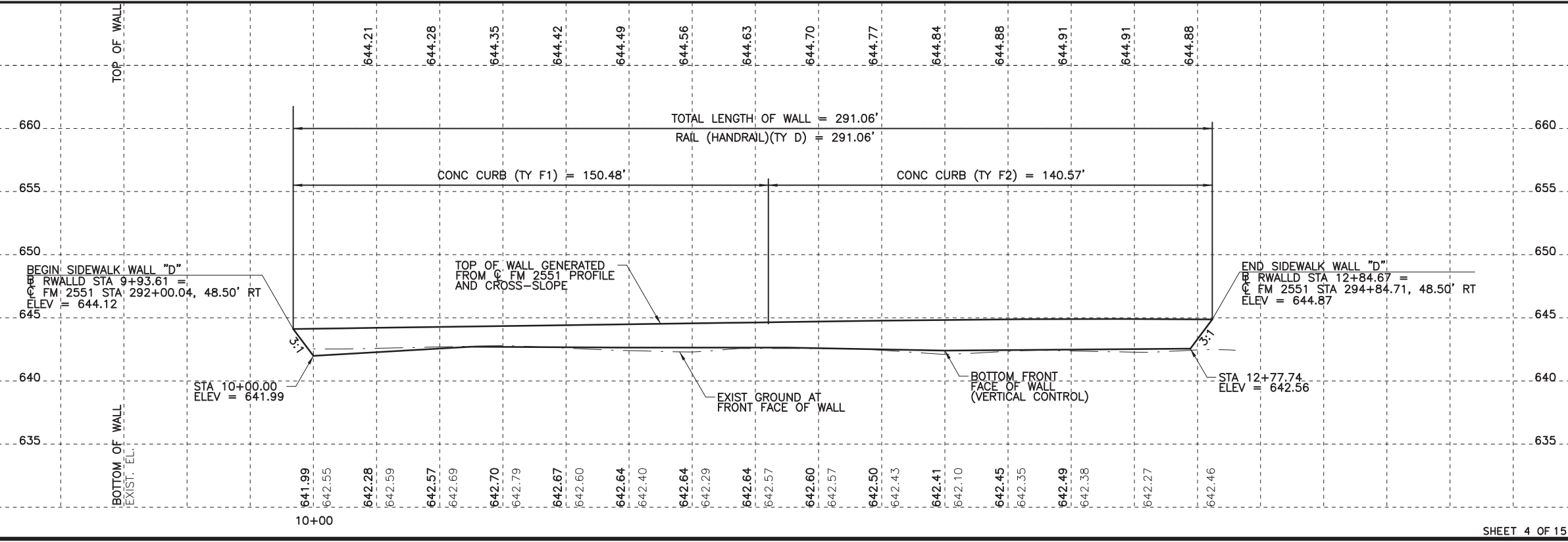
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

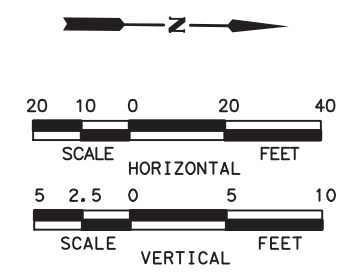
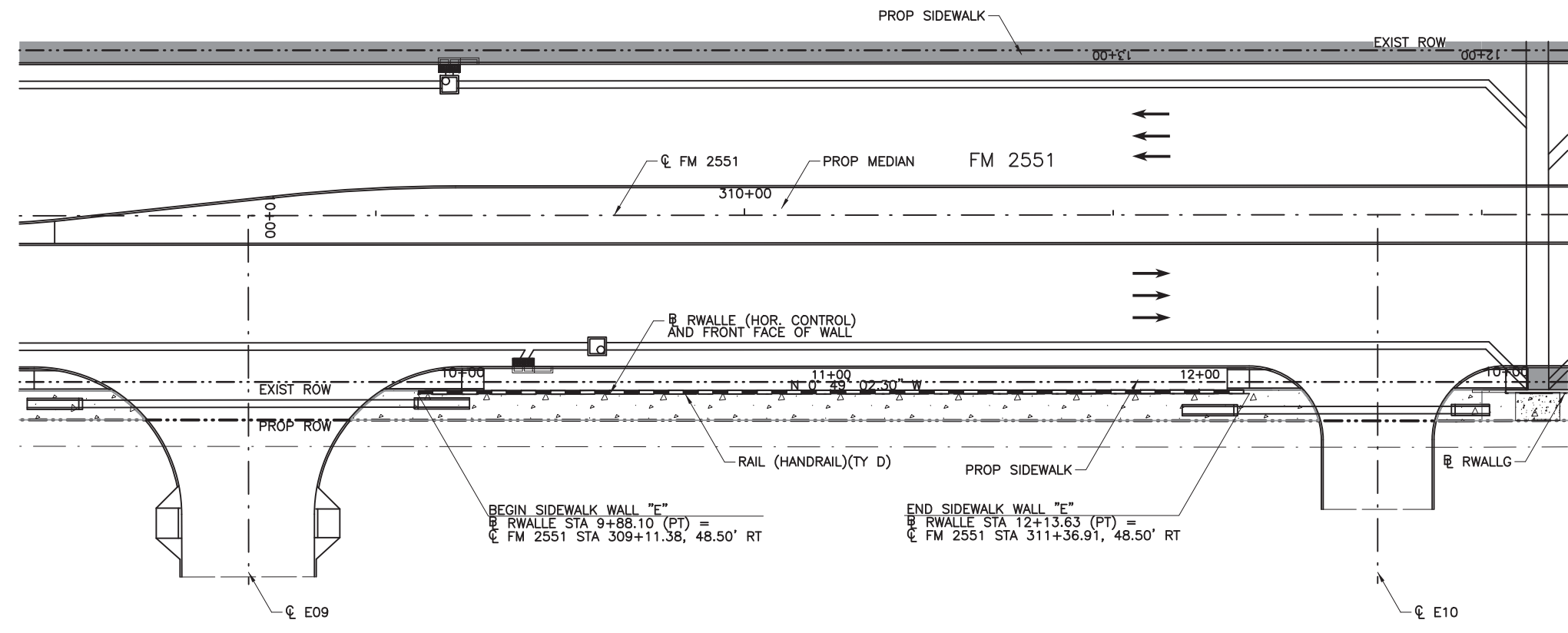
**Texas Department of Transportation**  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT**  
**WALL "D"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY				
Drawn: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Checked: CPY				SHEET NO. 202

8/16/2019 9:21:17 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.05 Walls/1201RDSW04.dgn



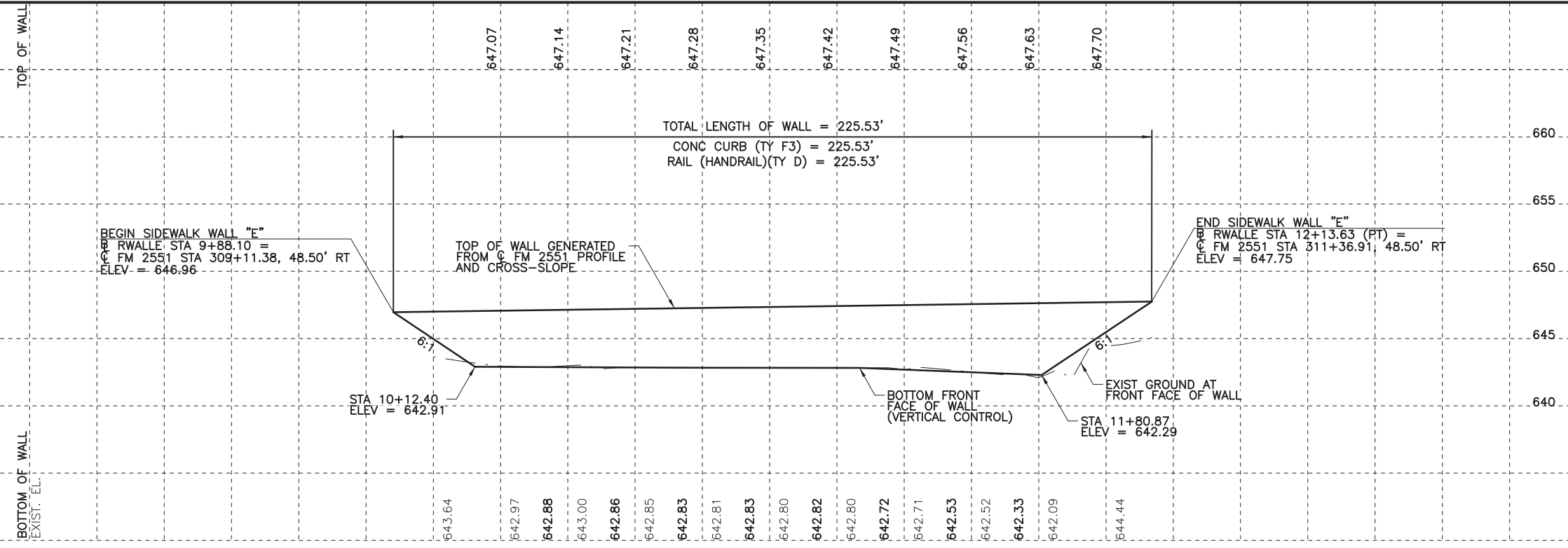
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**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	226
CONC CURB (TY F1)	LF	
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	226
CONC SIDEWALKS (6')	LF	226



**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

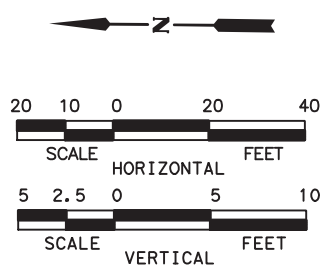
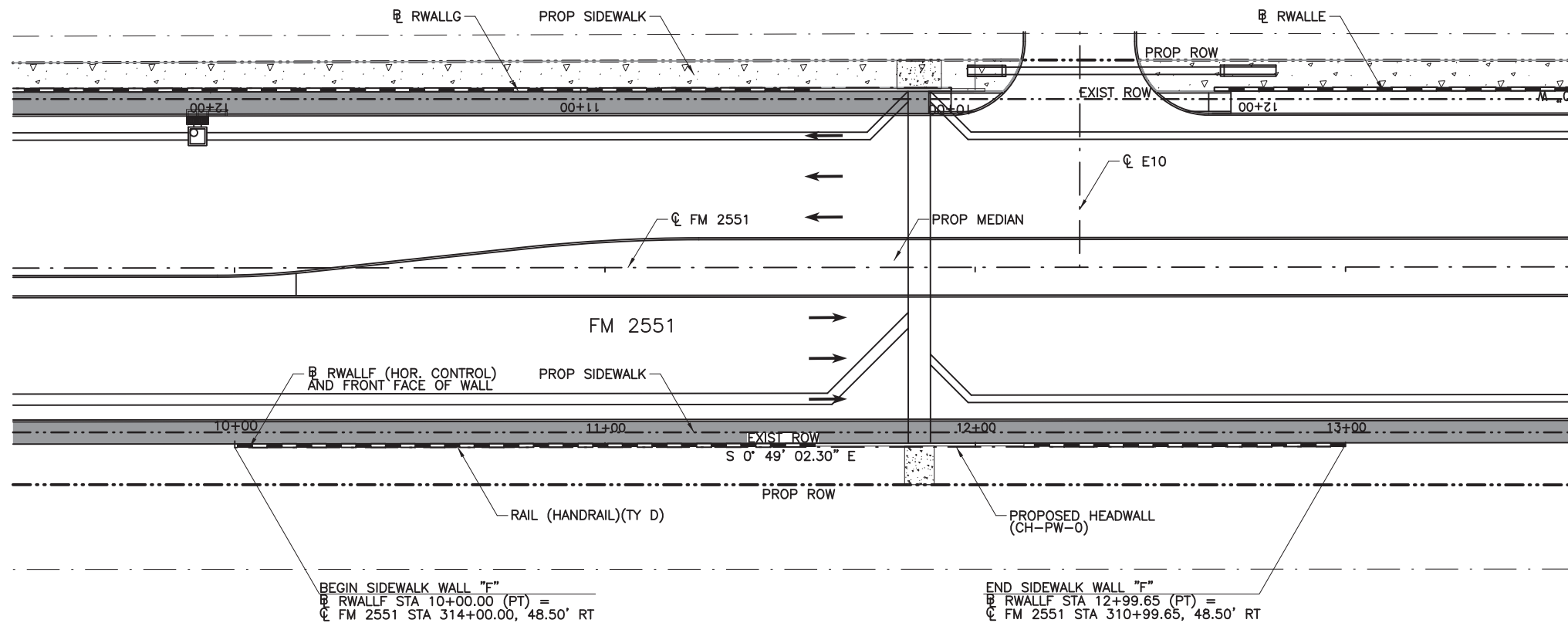
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT**  
**WALL "E"**

Designed:	CPY	FED. PROJ. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01 042	203

8/16/2019 9:21:29 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.05 Walls/1201RDSW06.dgn



**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	300
CONC CURB (TY F1)	LF	33
CONC CURB (TY F2)	LF	41
CONC CURB (TY F3)	LF	170
CONC SIDEWALKS (6')	LF	300

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

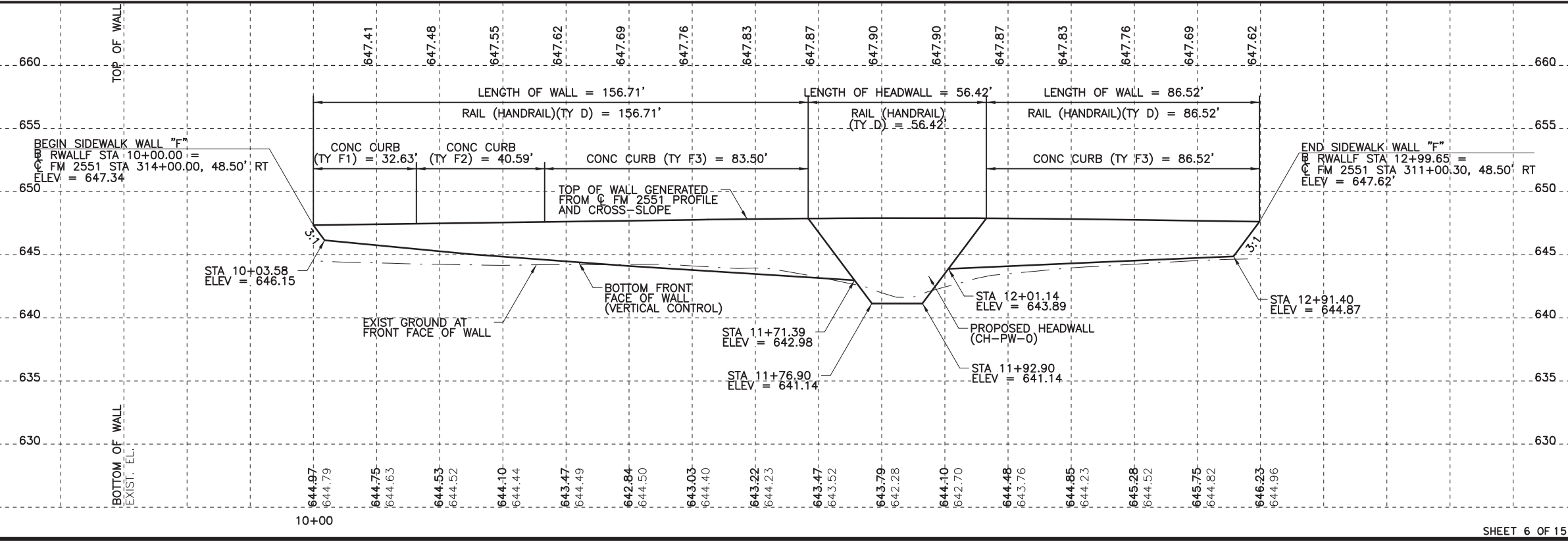
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

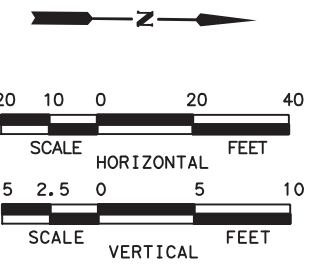
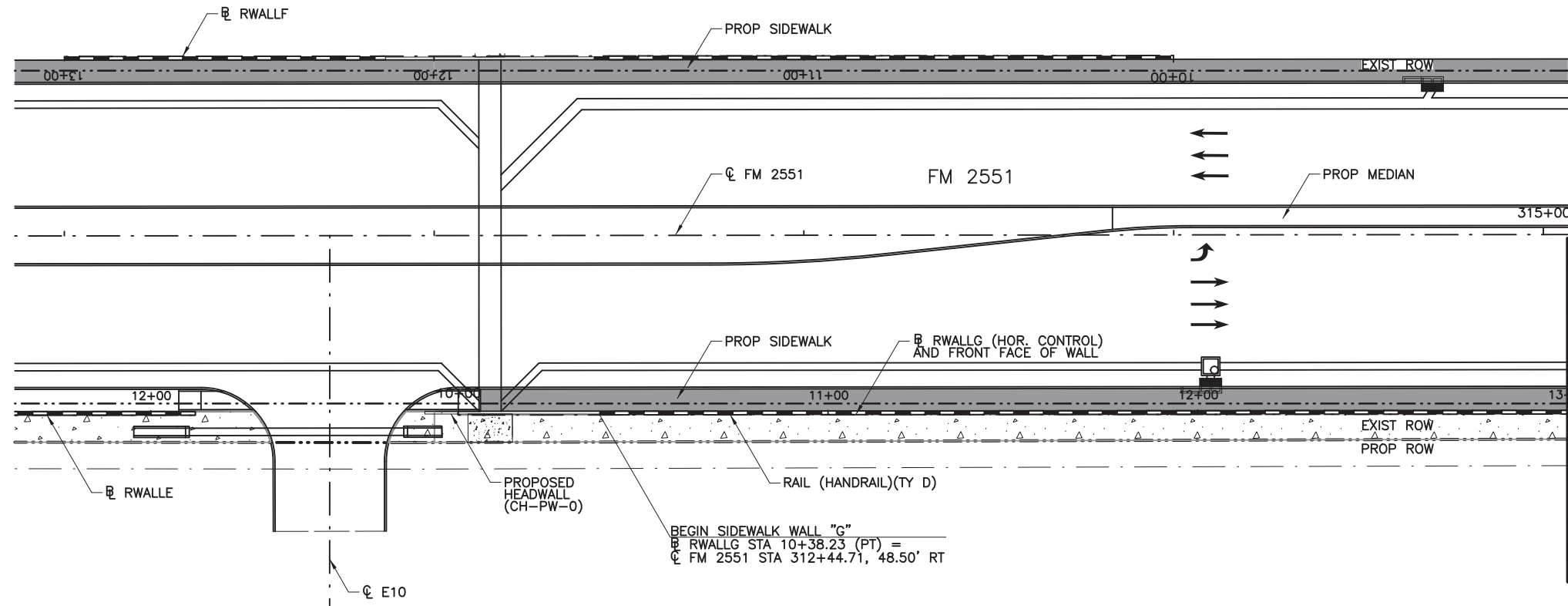
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT**  
**WALL "F"**

Designed: CPY	FED. PROJ. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 204			



8/16/2019 9:21:35 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.05 Walls/1201RDSW07.dgn



**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	886
RAIL (HANDRAIL) (TY D)	LF	322
CONC CURB (TY F1)	LF	
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	124
CONC SIDEWALKS (6')	LF	322

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

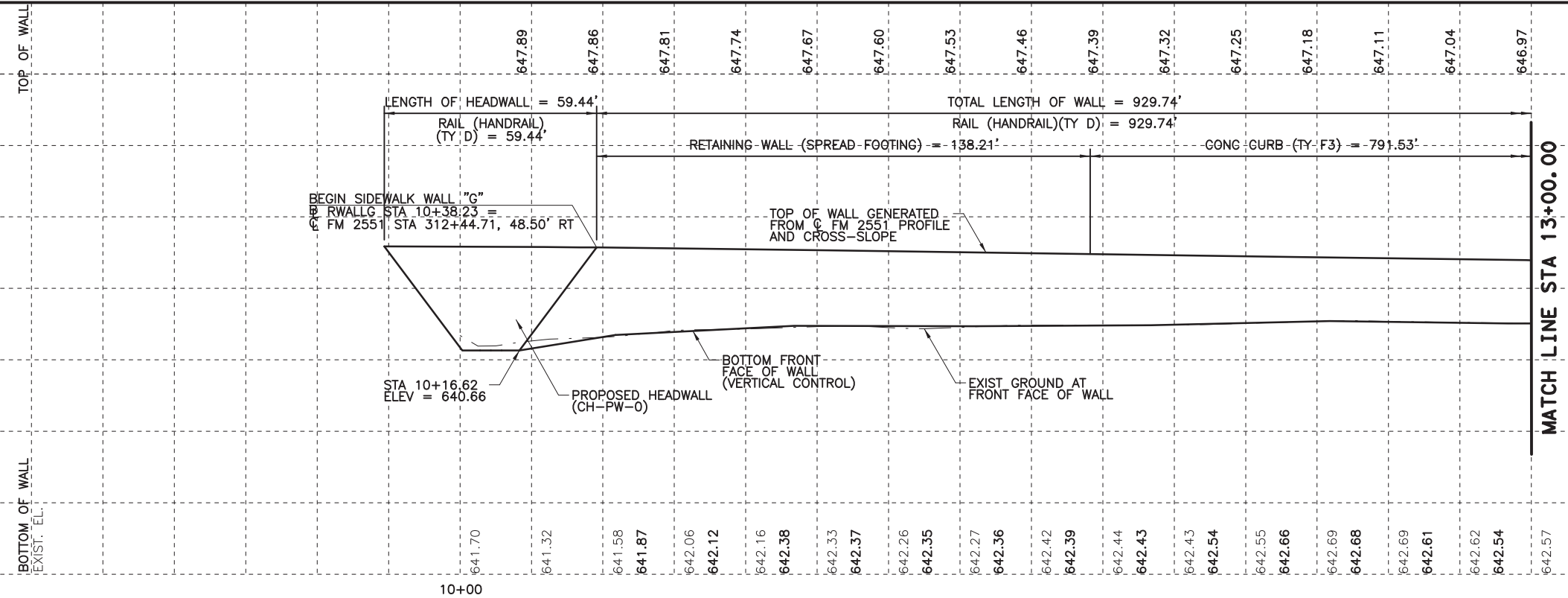
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

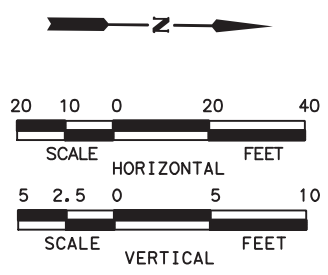
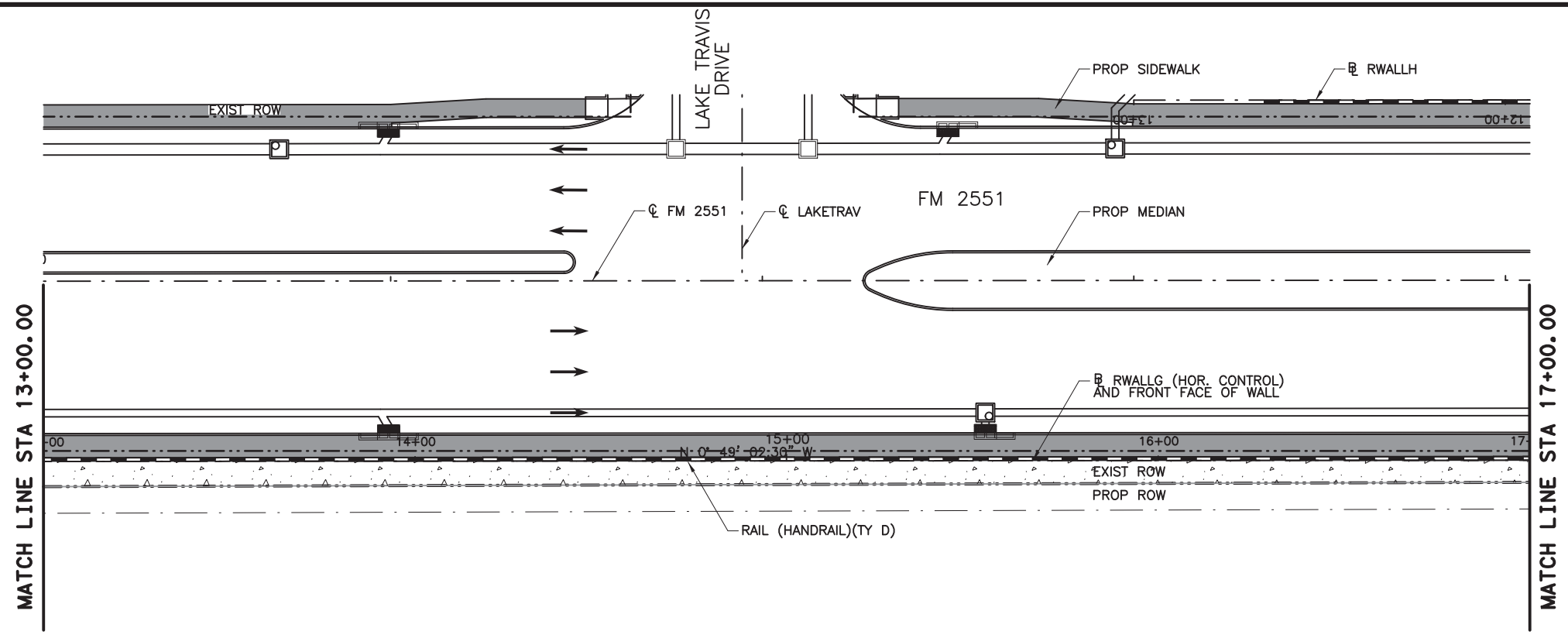
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT**  
**WALL "G"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	NO. 18	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	NO. 042	JOB NO. 042	SHEET NO. 205	





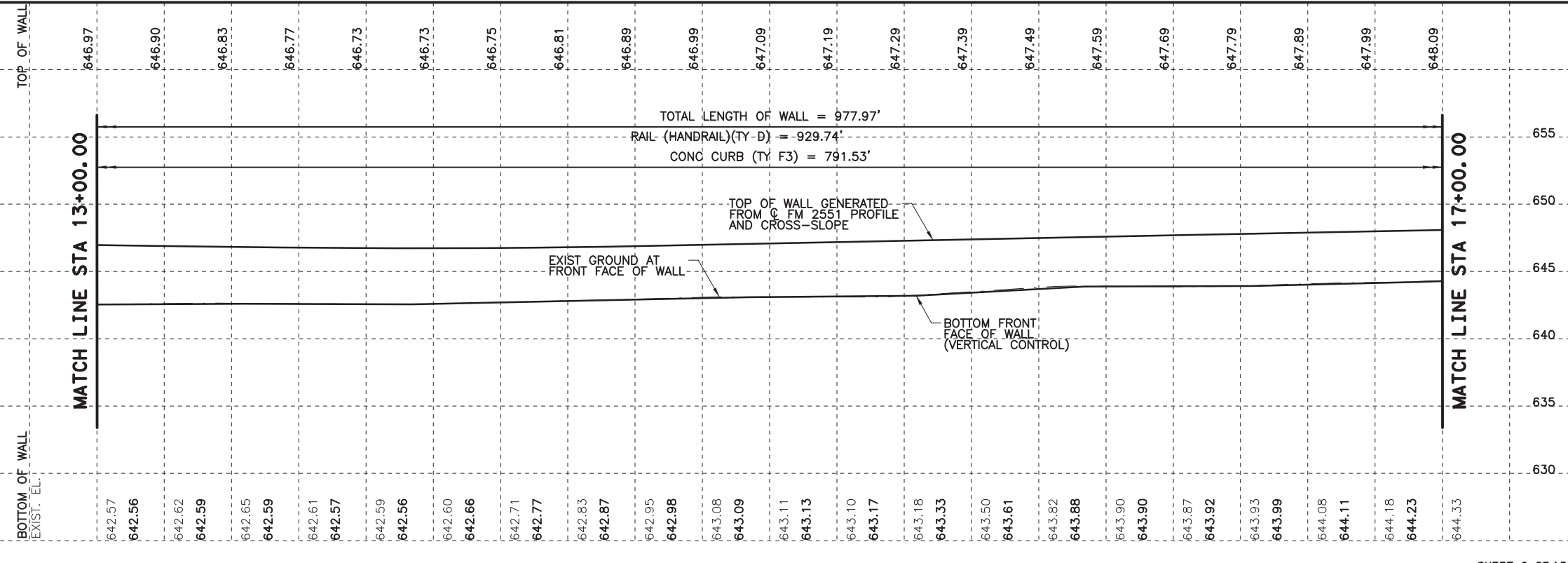
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**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6")".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	400
CONC CURB (TY F1)	LF	
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	400
CONC SIDEWALKS (6')	LF	400



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

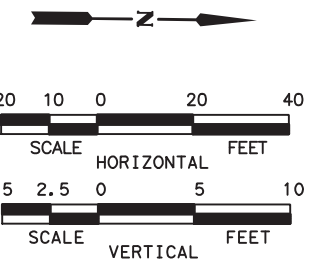
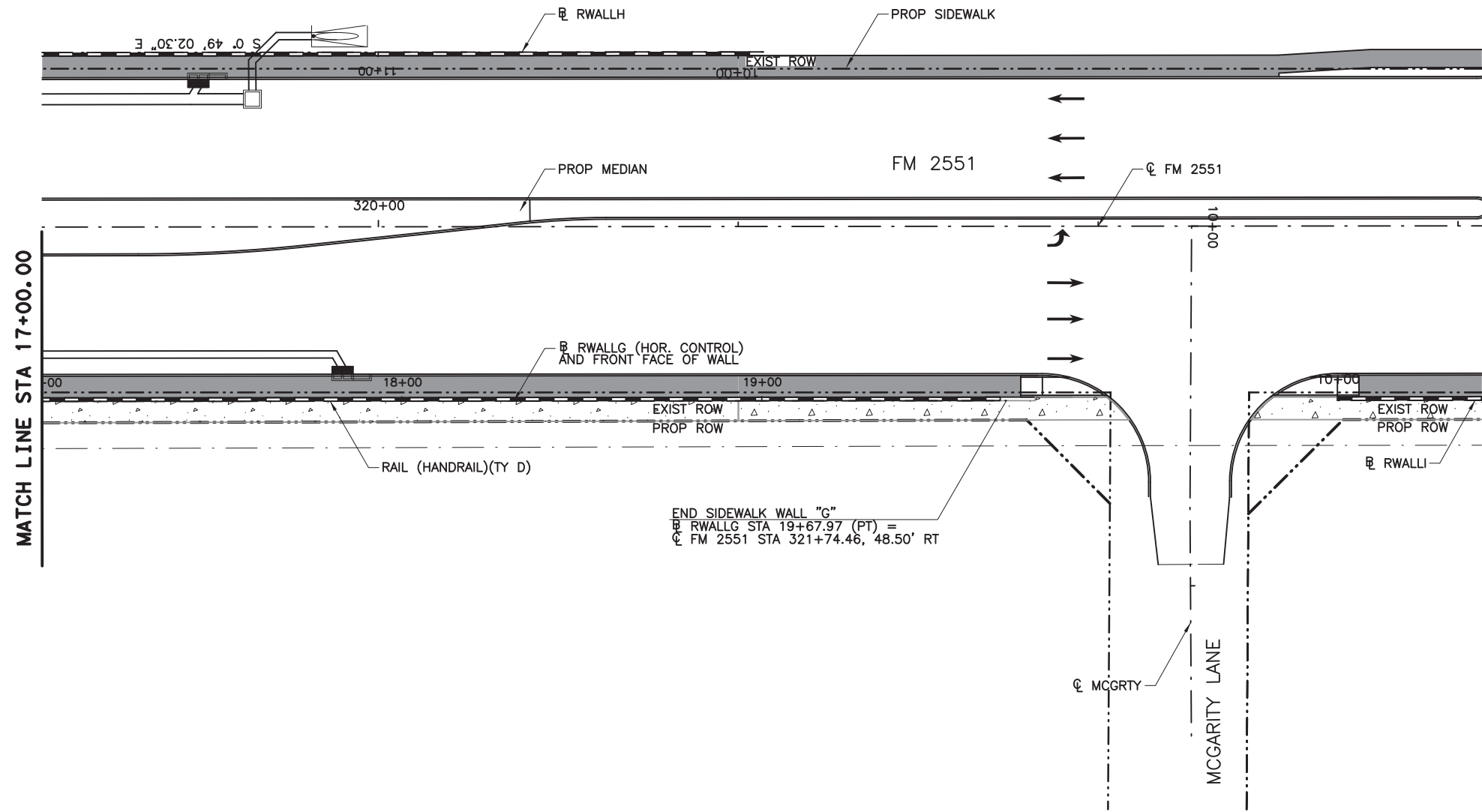
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
WALL "G"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 206

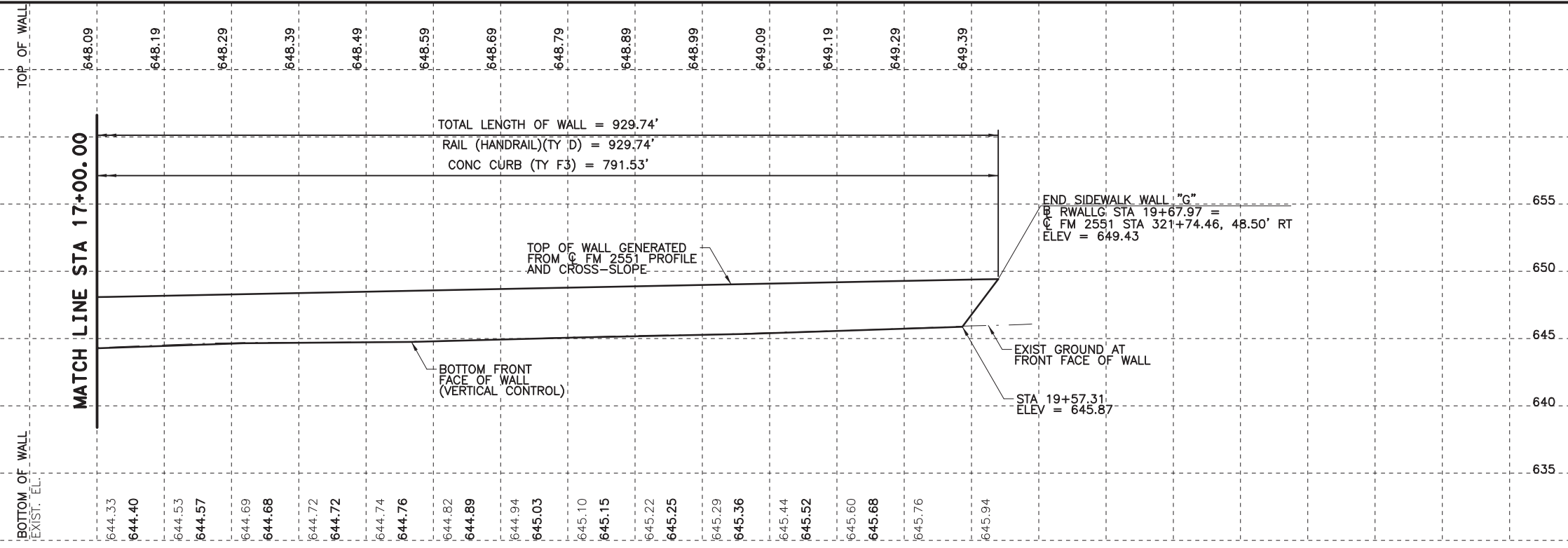
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**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	268
CONC CURB (TY F1)	LF	
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	268
CONC SIDEWALKS (6')	LF	268



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

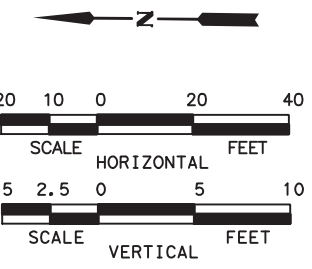
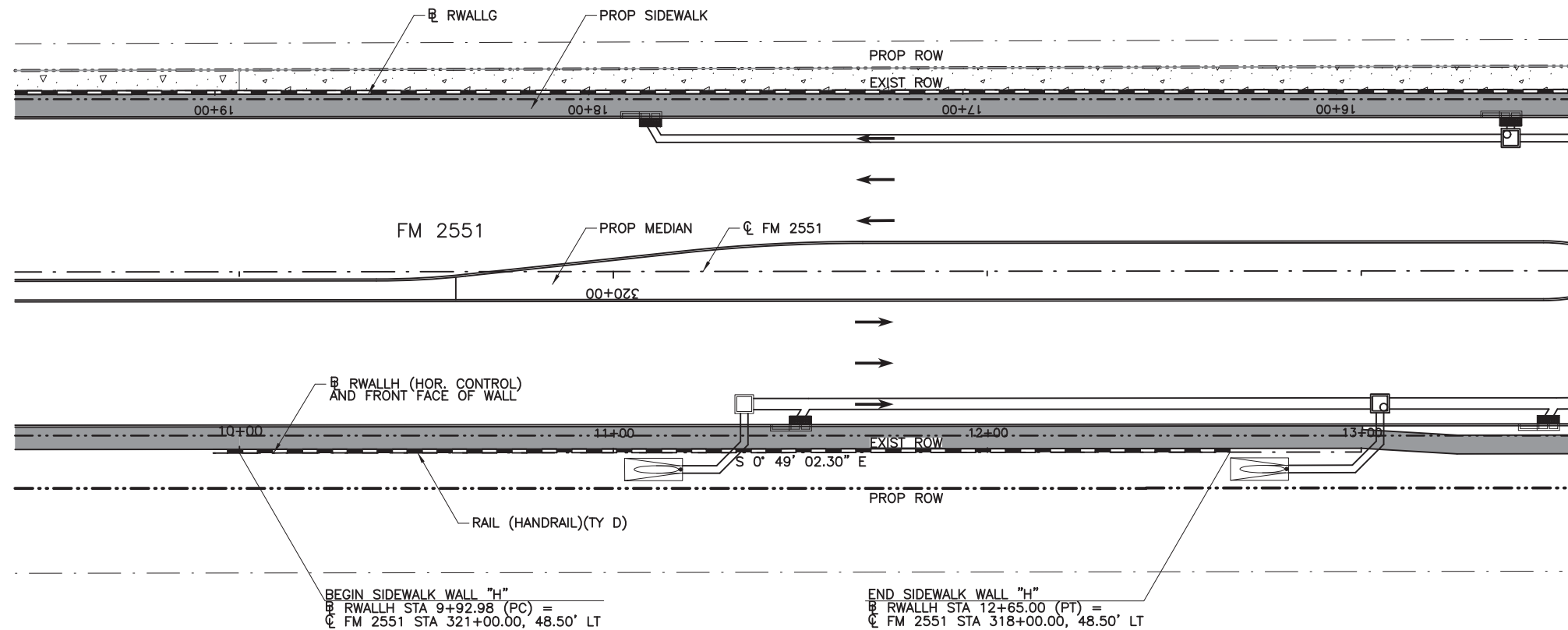
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
WALL "G"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 207

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**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	272
CONC CURB (TY F1)	LF	
CONC CURB (TY F2)	LF	272
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	272

**100% PLANS ADEQUATE**  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

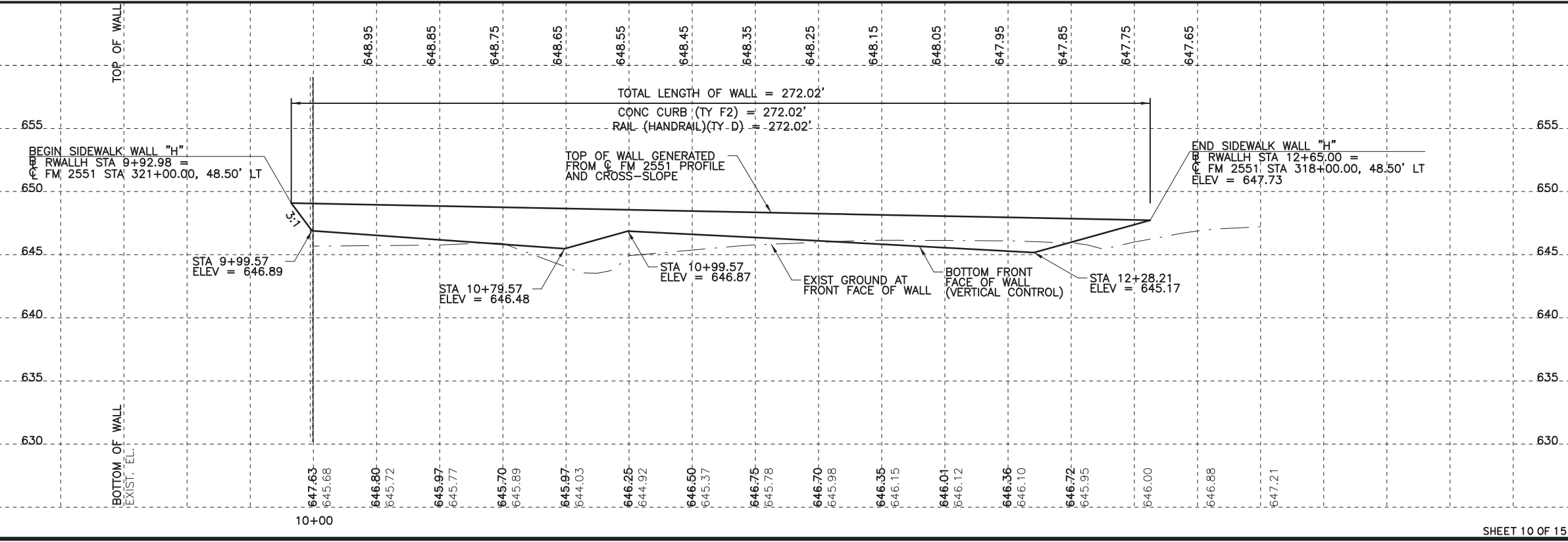
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

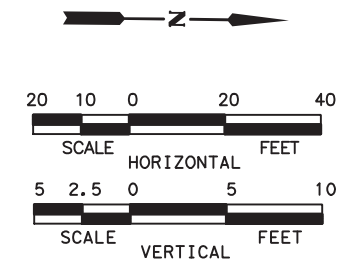
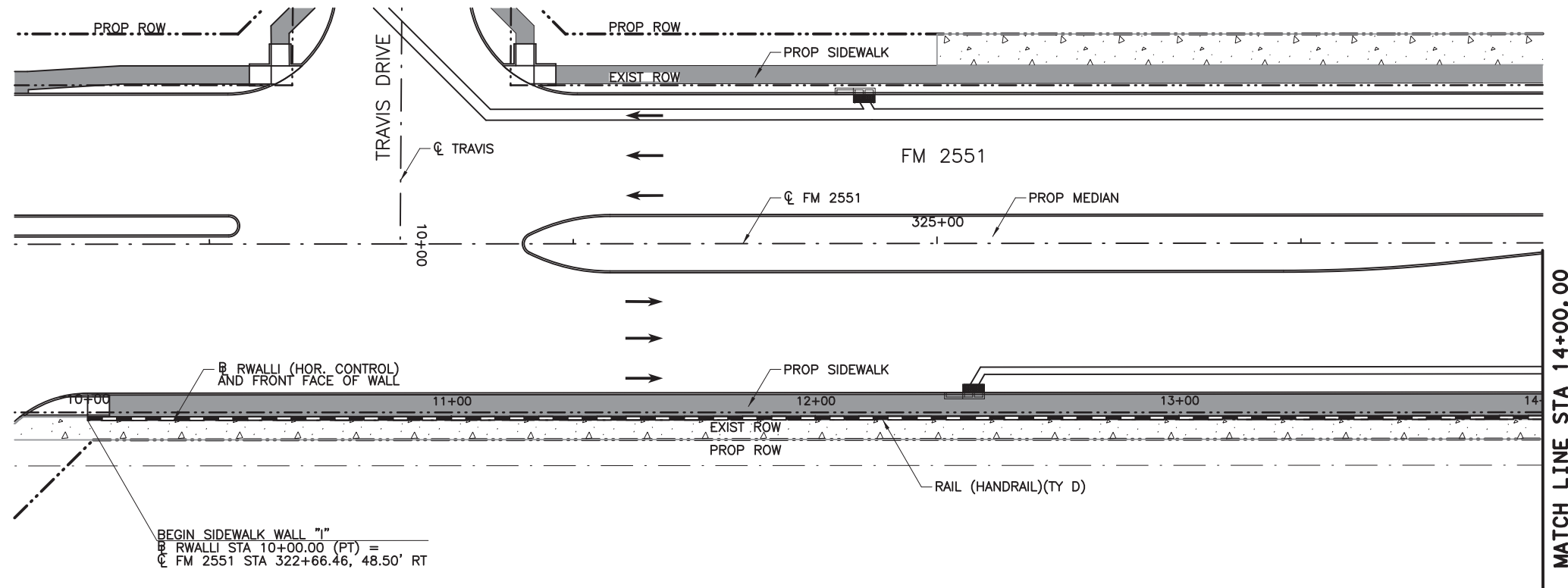
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT**  
**WALL "H"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 208			



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GENERAL NOTES

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
3. ANY ADJUSTMENTS MADE TO ACCOMMODATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	400
CONC CURB (TY F1)	LF	400
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	400

100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

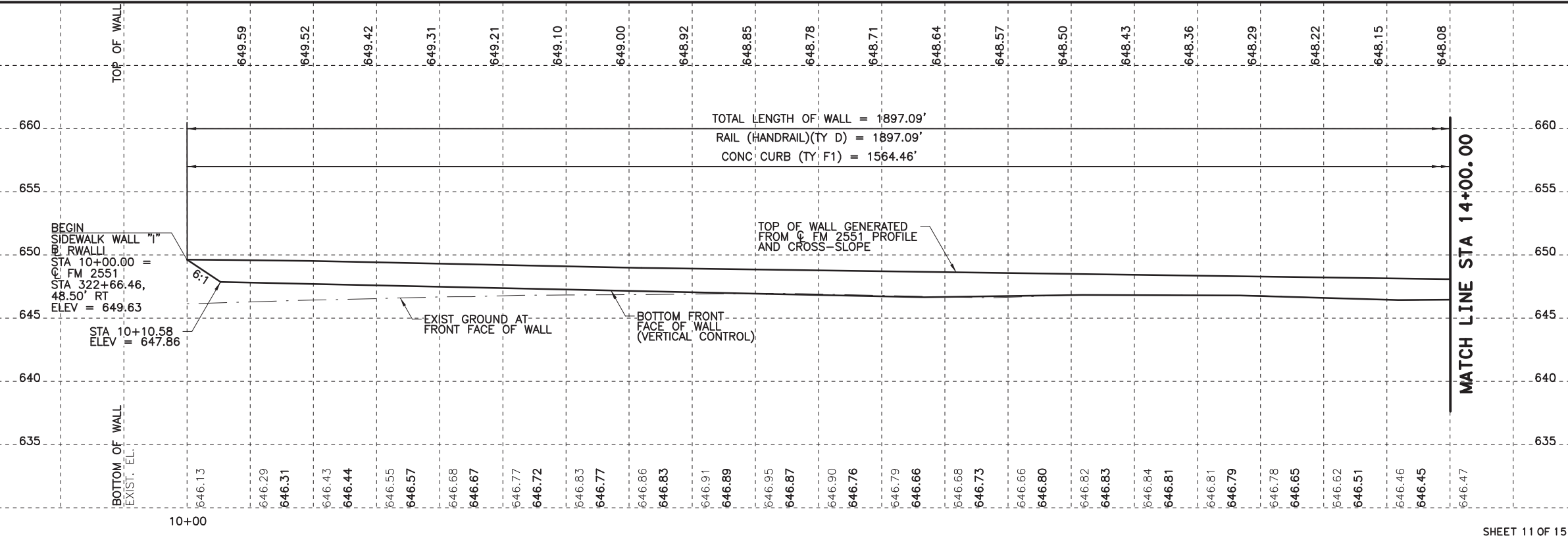
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TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

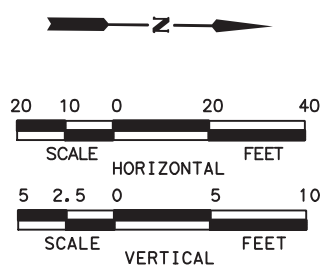
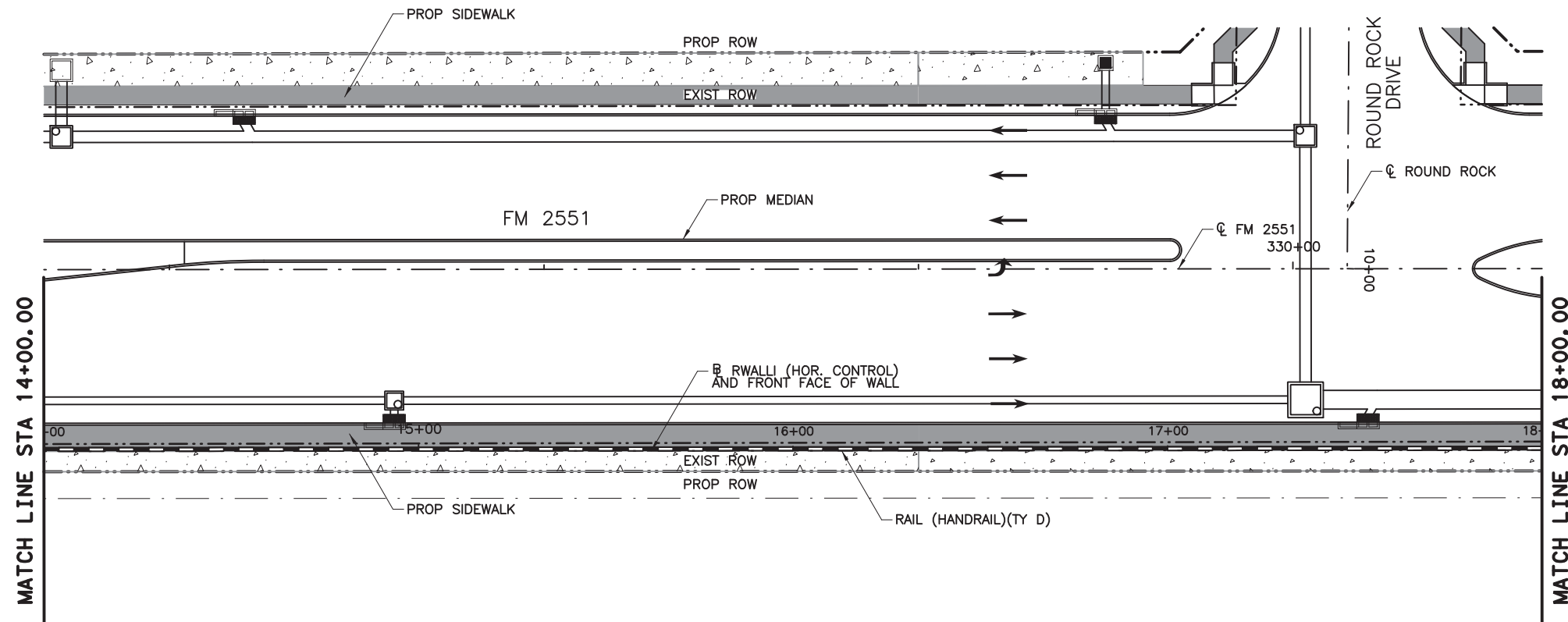
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**SIDEWALK WALL LAYOUT  
WALL "I"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY				
Drawn: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Checked: CPY				SHEET NO. 209



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**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6")".
3. ANY ADJUSTMENTS MADE TO ACCOMMODATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	400
CONC CURB (TY F1)	LF	400
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	400

100% PLANS ADEQUATE  
Not for construction, bidding, or permit purposes.

**CP&Y**

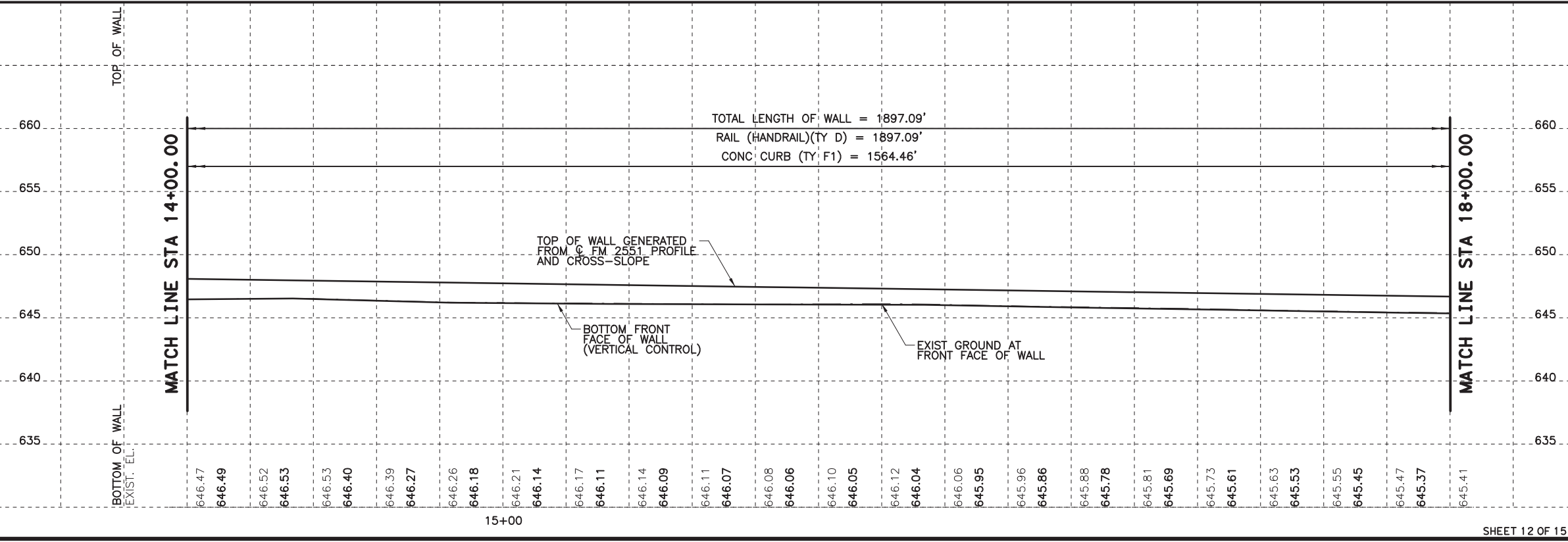
Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO. \_\_\_\_\_ REVISION \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_

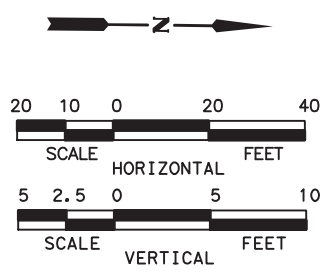
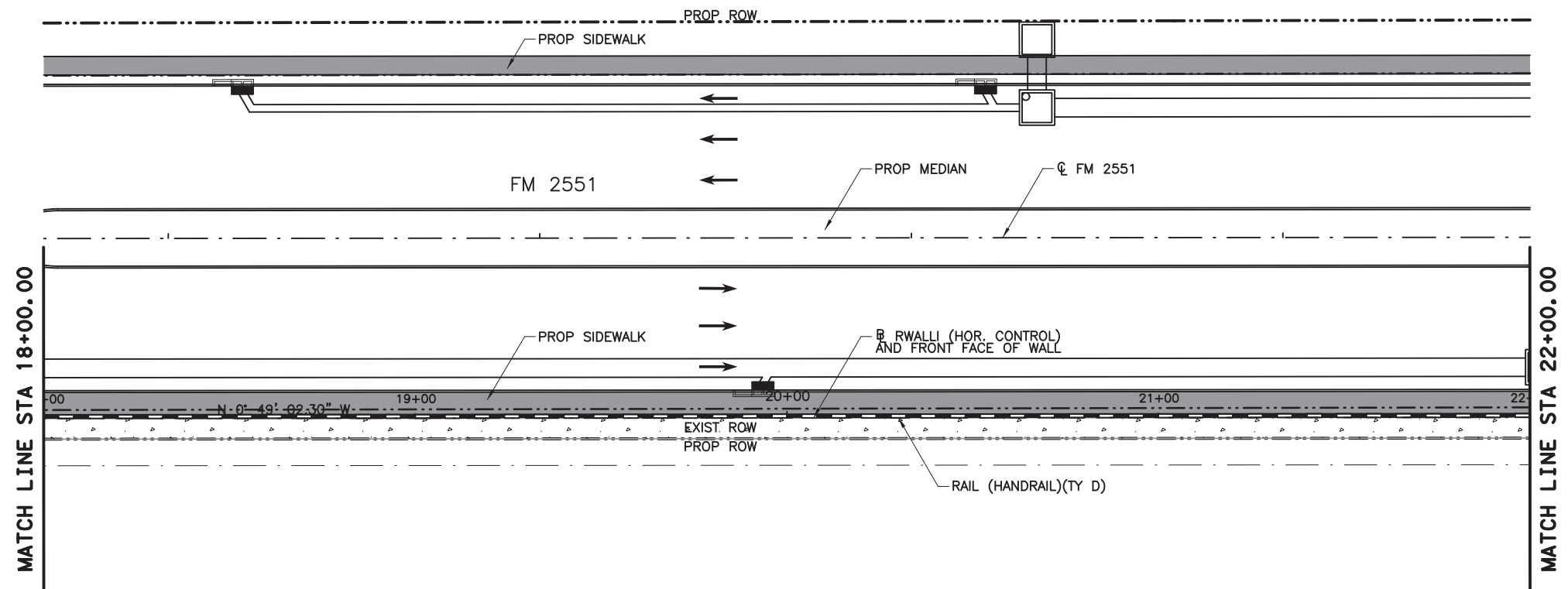
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
WALL "I"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 210



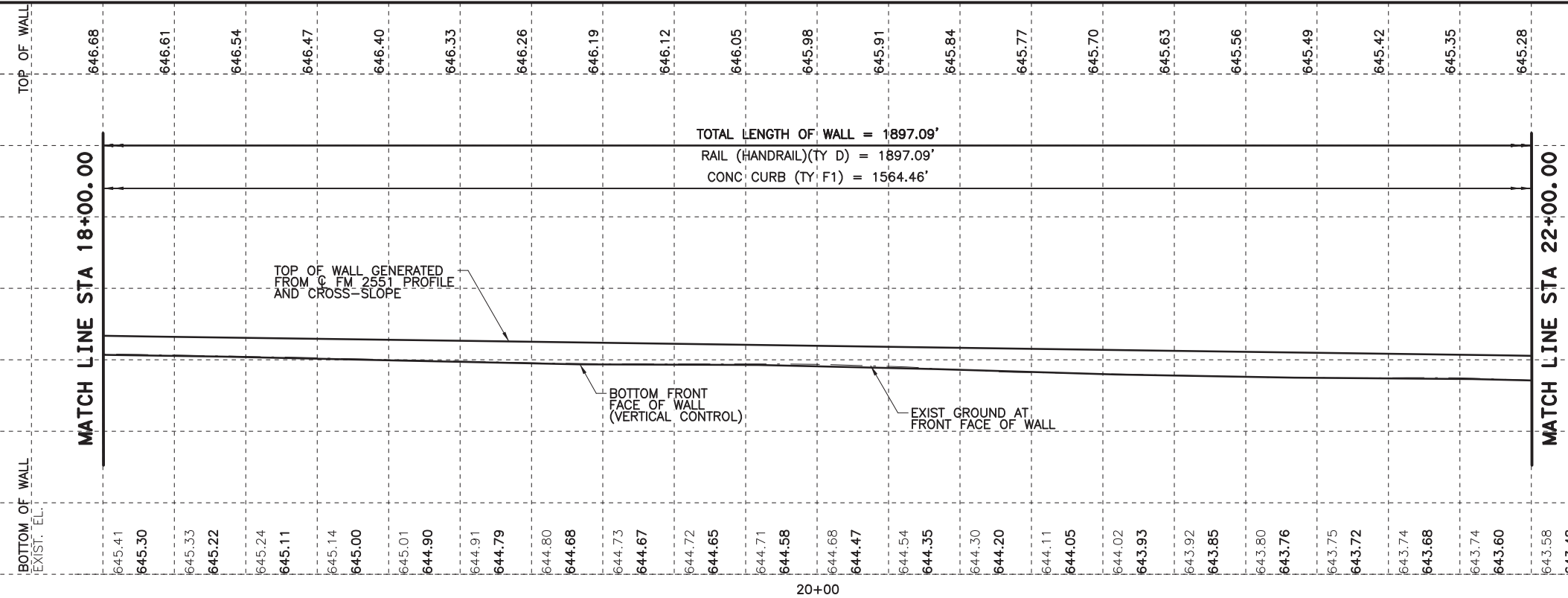
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GENERAL NOTES

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6")".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	400
CONC CURB (TY F1)	LF	400
CONC CURB (TY F2)	LF	
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	400



100% PLANS ADEQUATE  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

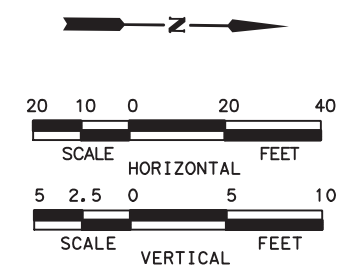
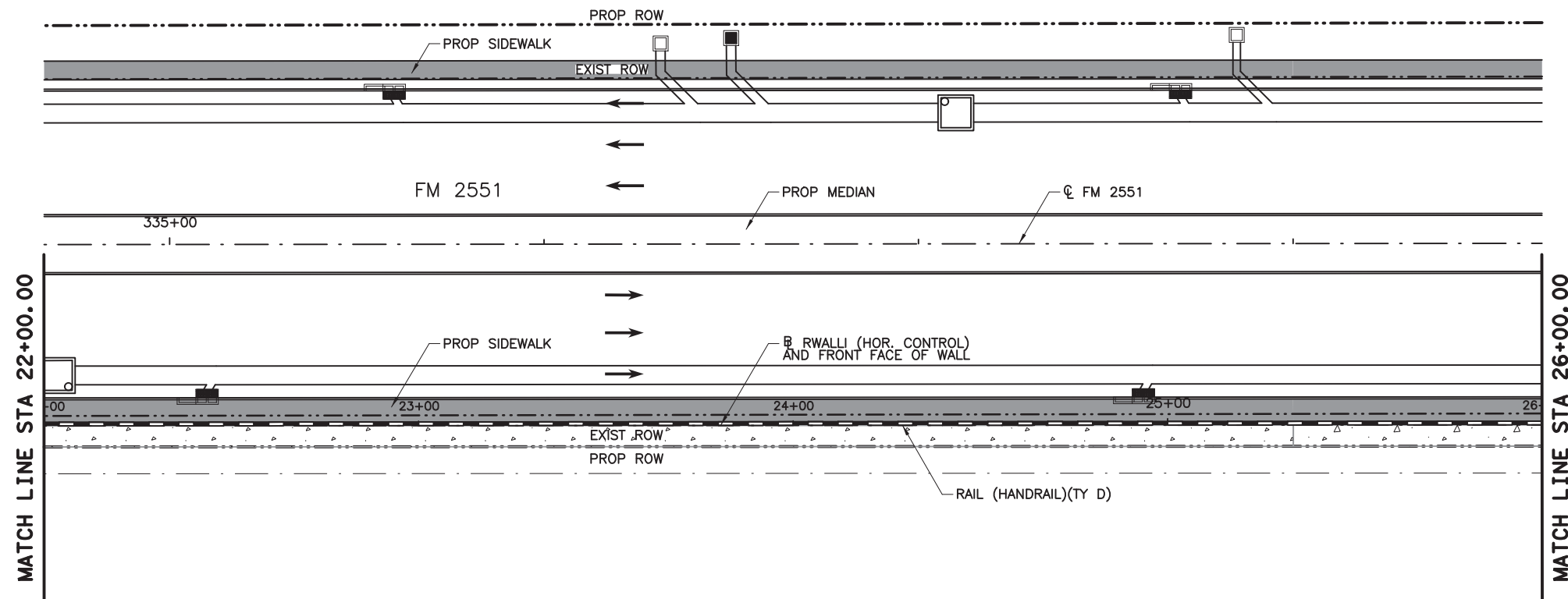
NO. \_\_\_\_\_ REVISION \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
WALL "I"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 211

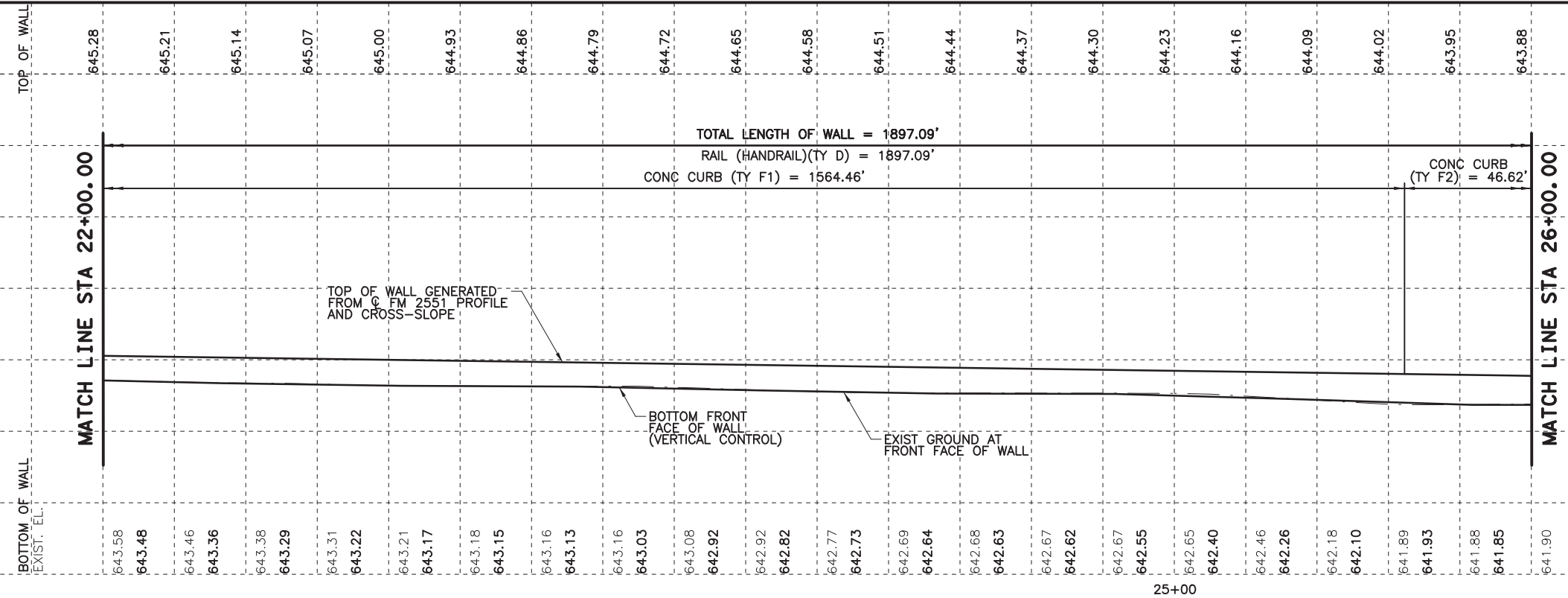
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**GENERAL NOTES**

1. ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
2. CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6")".
3. ANY ADJUSTMENTS MADE TO ACCOMDATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	400
CONC CURB (TY F1)	LF	365
CONC CURB (TY F2)	LF	36
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	400



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

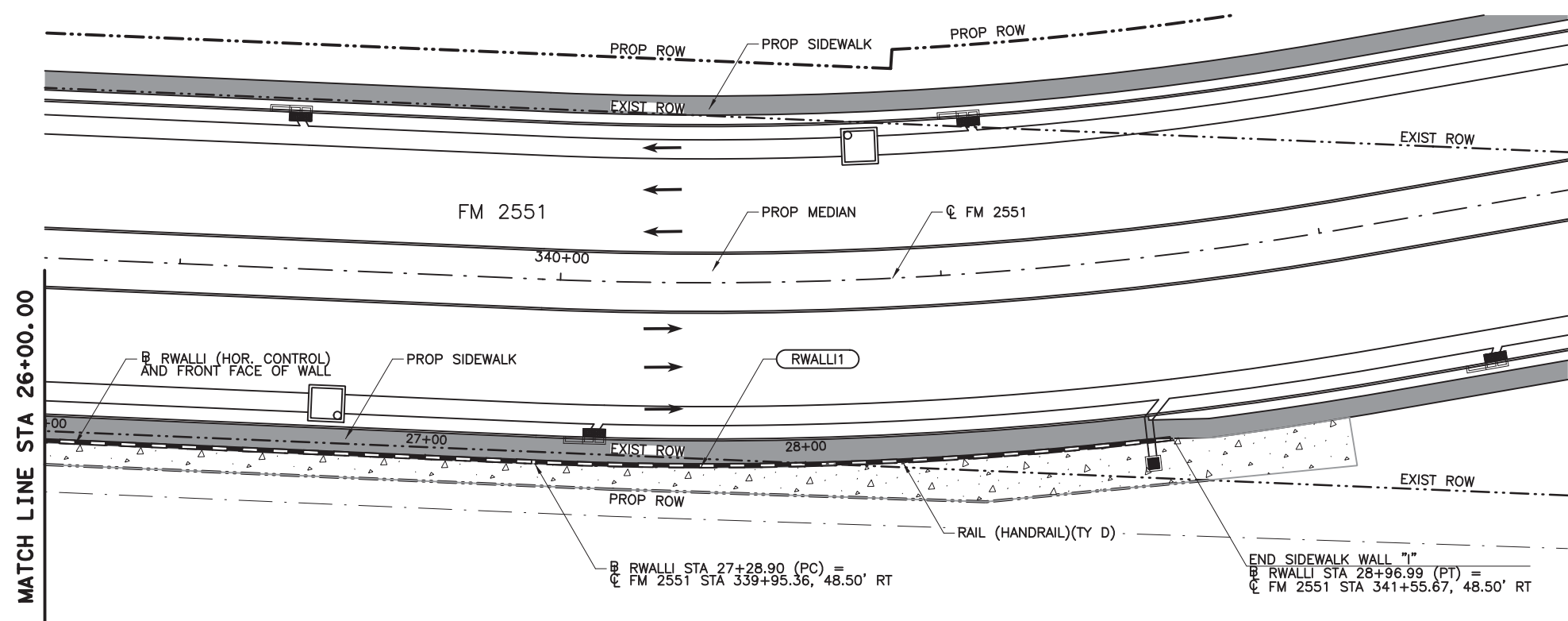
Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

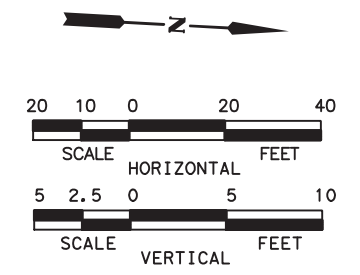
Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
WALL "I"**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 212		

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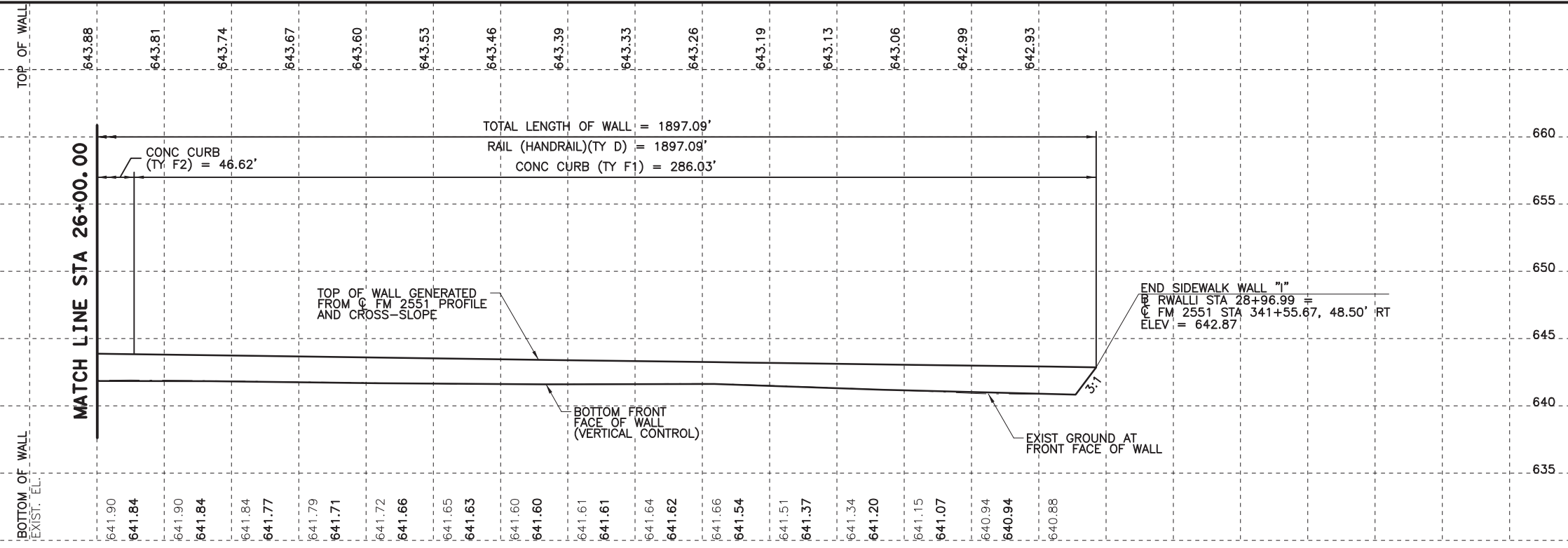
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 RADIUS = 1,048.50'  
 D = 5° 28' 00"  
 TANGENT = 81.23'  
 LENGTH = 162.08'



**GENERAL NOTES**

- ALL SIDEWALK WALL MEASUREMENTS ARE TO FRONT FACE OF WALL, UNLESS NOTED OTHERWISE.
- CLASS "C" CONCRETE REQUIRED FOR SHEAR KEY IS SUBSIDIARY TO PAYMENT OF SIDEWALK WALL. SIDEWALK ADJACENT TO SIDEWALK WALL WILL BE PAID FOR BY THE BID ITEM "CONC SIDEWALKS (6')(6)".
- ANY ADJUSTMENTS MADE TO ACCOMMODATE THE AVAILABLE DESIGNS WILL NOT BE MEASURED. THE QUANTITY FOR WHICH PAYMENT IS MADE WILL BE THE QUANTITY SHOWN IN THE PLANS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATION TO AVOID ANY CONFLICTS WITH SIDEWALK WALLS.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SPREAD FOOTING)	SF	
RAIL (HANDRAIL) (TY D)	LF	297
CONC CURB (TY F1)	LF	286
CONC CURB (TY F2)	LF	11
CONC CURB (TY F3)	LF	
CONC SIDEWALKS (6')	LF	297



100% PLANS ADEQUATE  
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 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

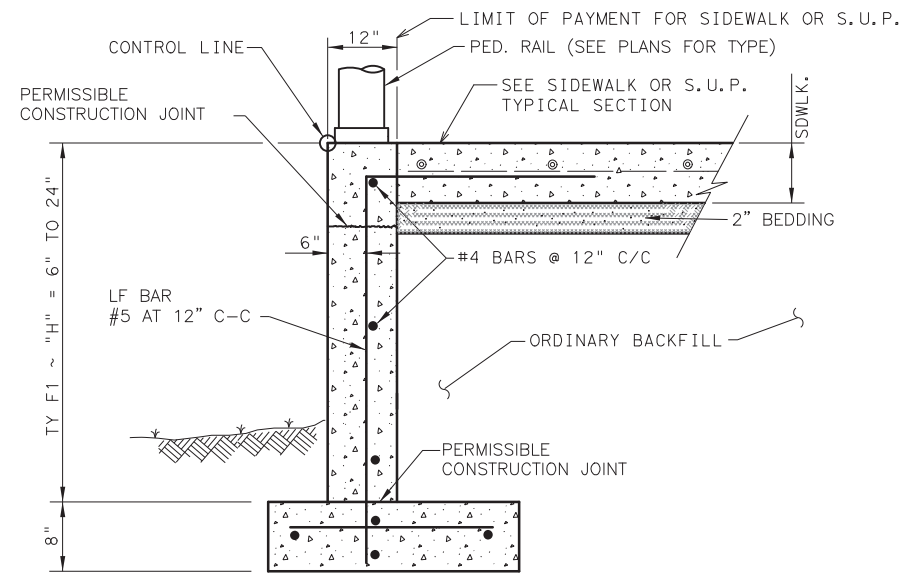
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)  
**SIDEWALK WALL LAYOUT  
 WALL "1"**

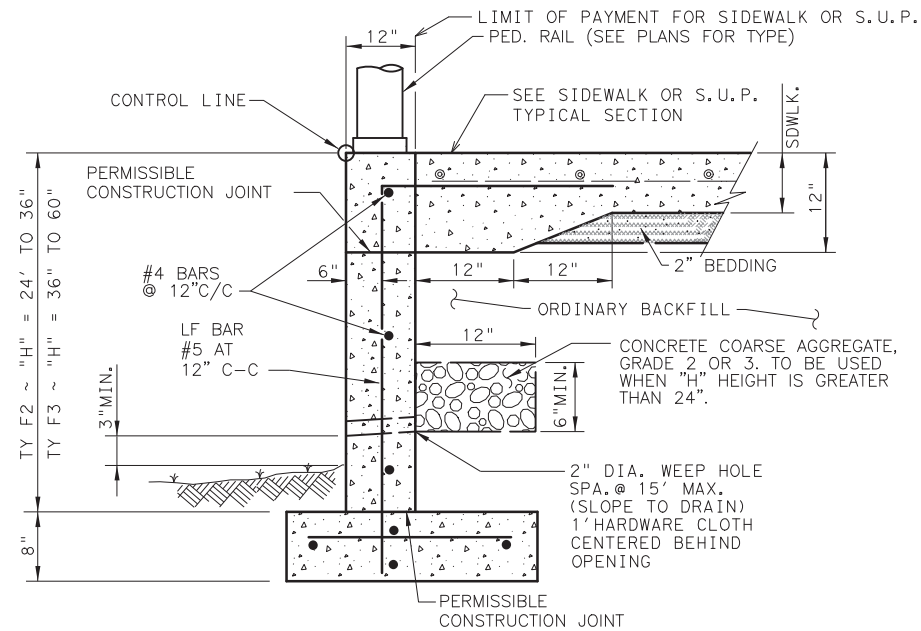
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Checked	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked	CPY	18	COLLIN	2056 01 042	213



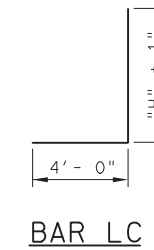
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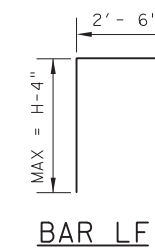
CONC CURB (TY F1)†



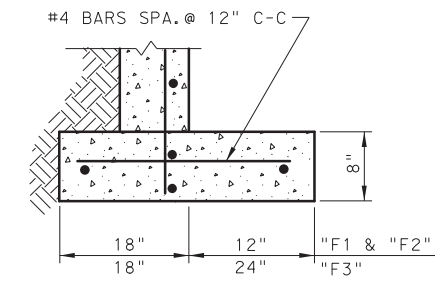
CONC CURB (TY F2) & (TY F3)†



BAR LC



BAR LF



FOOTING DETAIL

**SIDEWALK, SHARED USE PATH, AND MEDIAN NOTES**

Reinforcement will be in accordance with Item 432.3.1. Fiber reinforcement is not allowed. Class A and B Concrete are allowed to use Coarse Aggregate Grades 1-8.

Bedding may be sand, base, or RAP bedding. Furnish base meeting the requirement for any type or grade in accordance with Item 247. Base compressive strengths are waived. RAP must be 100% passing a 1 in. sieve. Bedding must be placed using ordinary compaction.

If roots are encountered verify with the Engineer prior to accommodating or removing 2 in. diameter or larger roots. Root removal must be in accordance with Item 752.4.2. Roots may remain in the bedding or base. For improvements within 6 in. of a root, the concrete thickness may be reduced by 1 in. and the bedding increased by 1 in. to minimize impacts to the roots. Adjust bedding and surface profile to provide a 1 in. bedding cushion around the roots. The surface profile may be adjusted to the extent allowed by ADA. This work is subsidiary.

**CONCRETE CURB NOTES:**

All Concrete, including adjacent sidewalk or S.U.P., shall be Class "C".  
All Reinforcing Steel shall be Grade 60.  
Minimum 4' sidewalk width for CONC CURB (TYPES C1 & C2).

† Until the sidewalk is complete, lateral support for the "F" curbs will be required.

ALL WORK SHOWN BEYOND TYPICAL SIDEWALK, S.U.P., AND PED RAIL IS SUBSIDIARY.

**DESIGN SOIL PARAMETERS:**

Soil Unit Wt. = 120 pcf  
Phi = 30 Degrees  
Cohesion = 50 psf  
Min. PI = 15  
Max. PI = 30

**SURCHARGE:**

TYPE F CURB q = 2' Adjacent to sidewalk  
Max. slope behind TYPE C Curb = 4:1  
Min. Factor of Safety against sliding is 1.5.  
Designed in accordance with current AASHTO Standards and Interim Specifications.

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Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

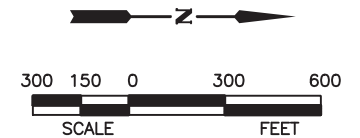
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

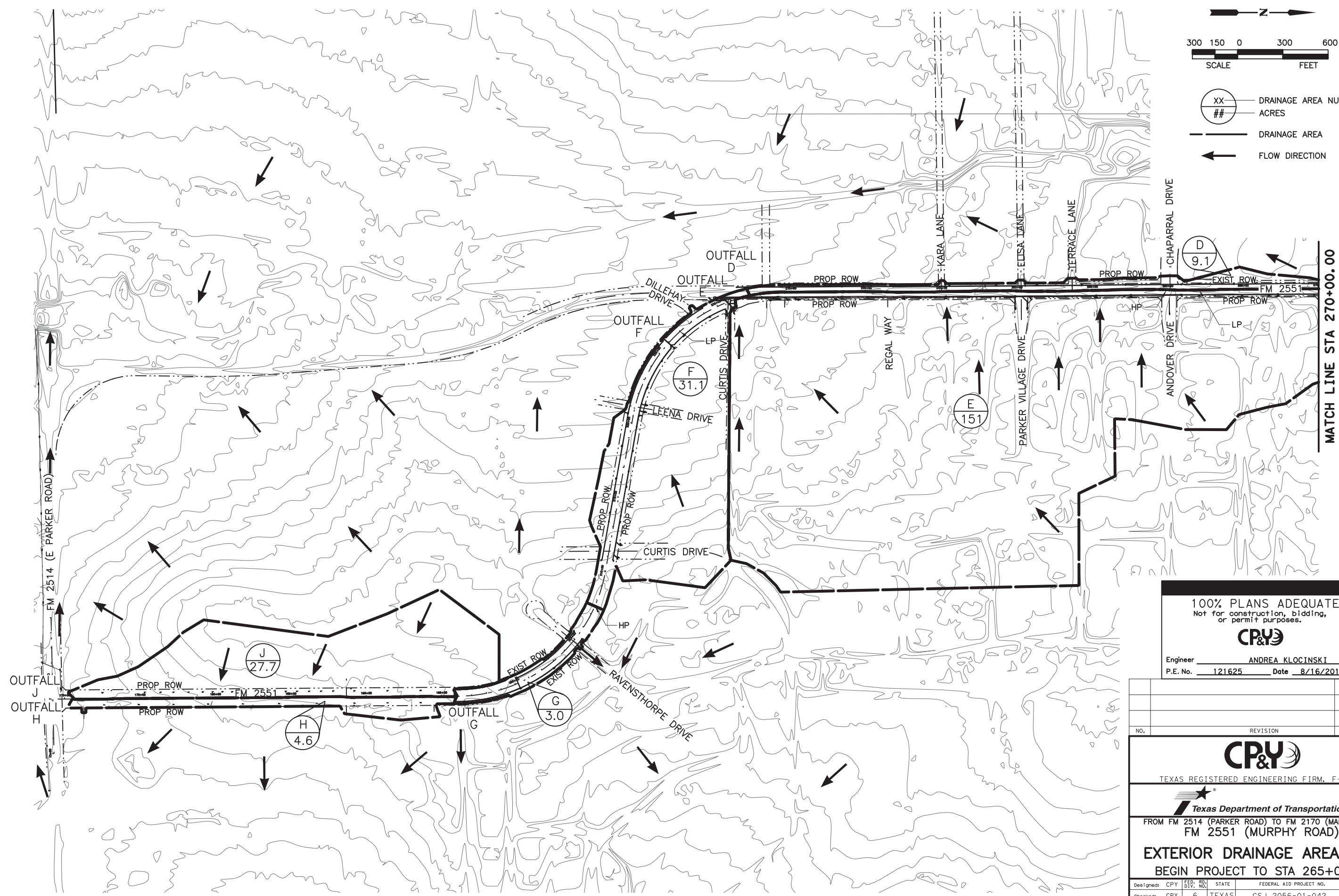
**SIDEWALK WALL DETAILS**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01	042
					SHEET NO. 214

8/16/2019 9:22:36 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.306 Drainage/1201DRam01.dgn



- XX DRAINAGE AREA NUMBER
- ## ACRES
- DRAINAGE AREA
- ← FLOW DIRECTION



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Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741



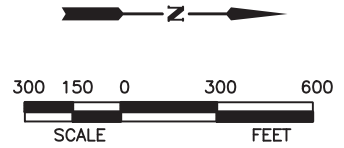
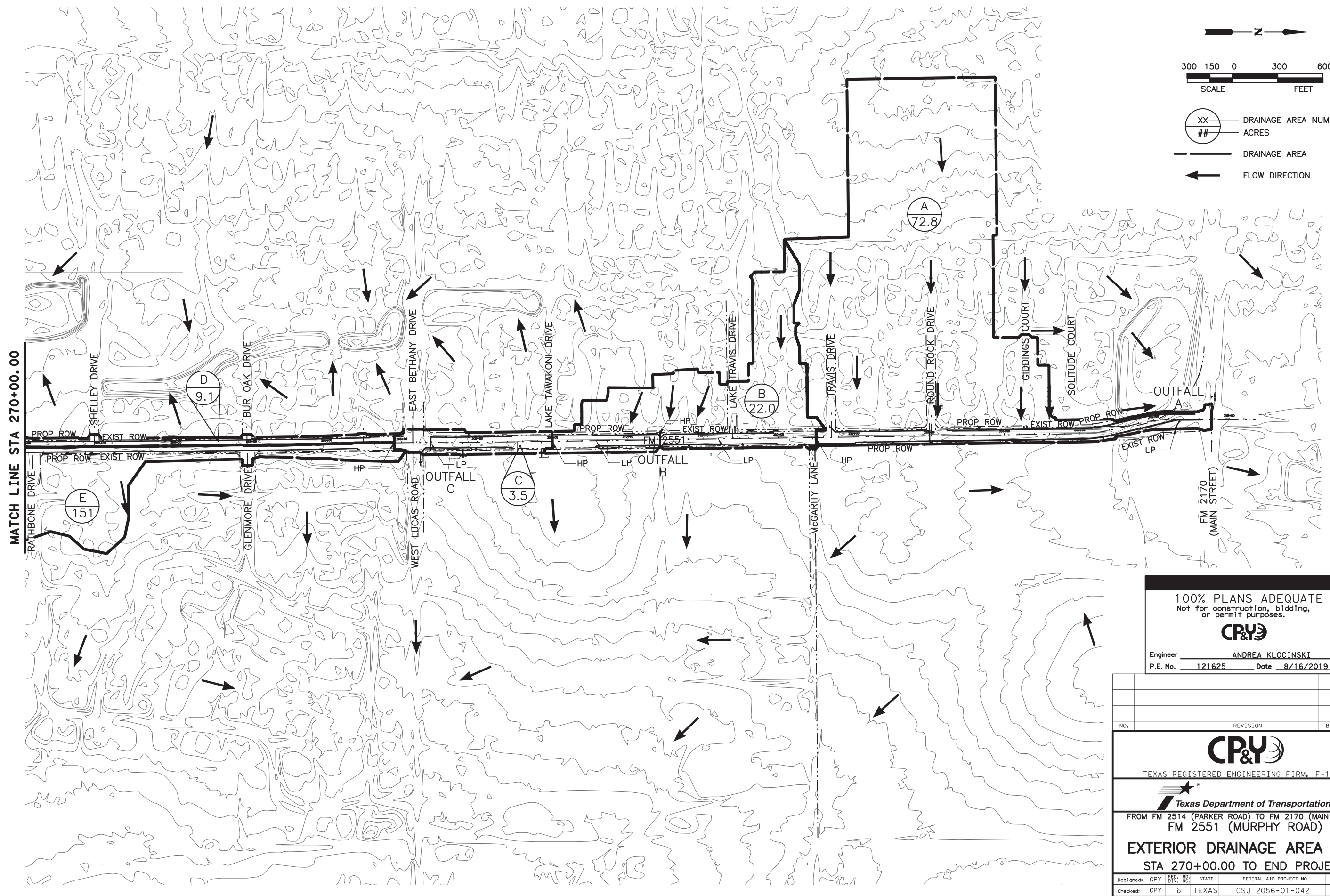
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**EXTERIOR DRAINAGE AREA MAP**  
BEGIN PROJECT TO STA 265+00.00

Designed:	CPY	FED. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB SHEET NO.
Checked:	CPY	18	COLLIN	2056 01 042	215

MATCH LINE STA 270+00.00

8/16/2019 9:22:46 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRam02.dgn



- XX DRAINAGE AREA NUMBER
- ## ACRES
- DRAINAGE AREA
- ← FLOW DIRECTION

**100% PLANS ADEQUATE**  
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**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

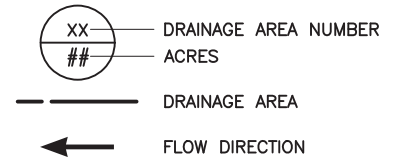
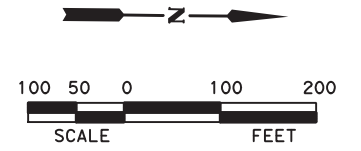
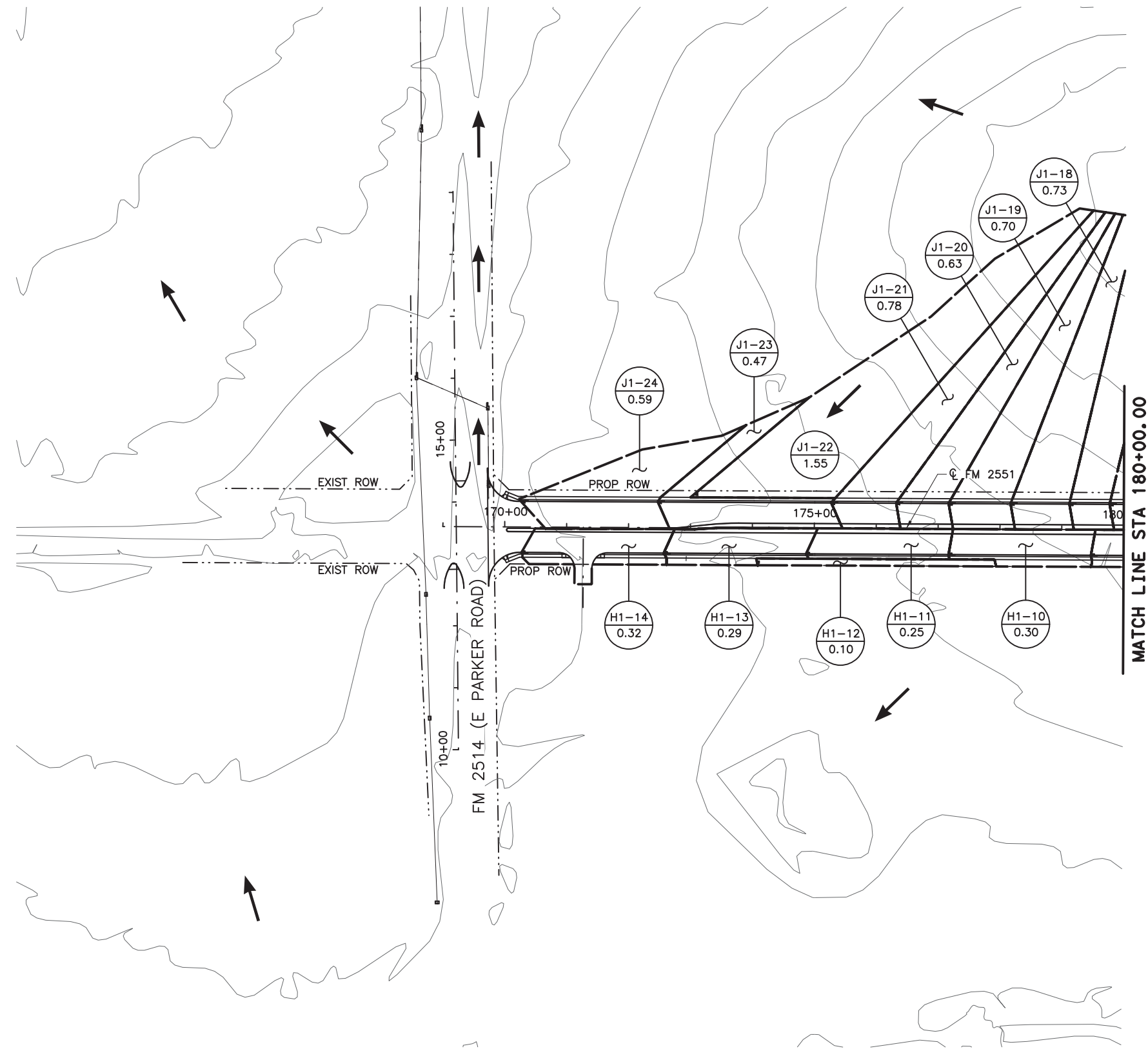
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**EXTERIOR DRAINAGE AREA MAP**  
 STA 270+00.00 TO END PROJECT

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18			SHEET NO. 216

8/16/2019 9:22:54 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRan01.dgn



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 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

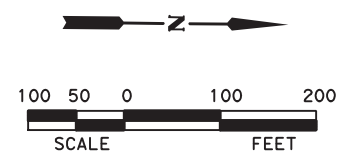
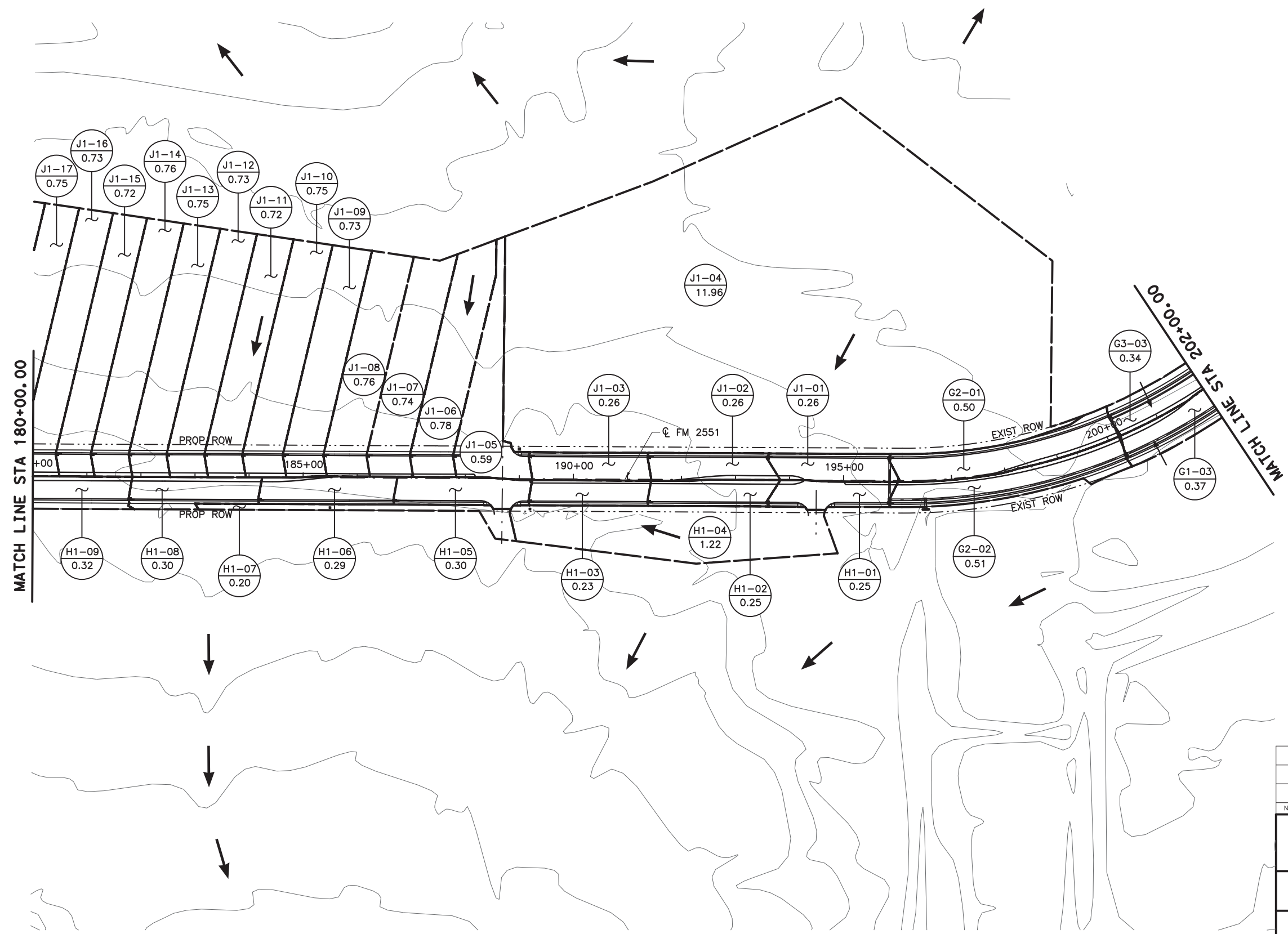
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
 BEGIN PROJECT TO STA 180+00.00

Designed:	CPY	FED. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL SECTION NO.	JOB SHEET NO.
Checked:	18	COLLIN	2056	01 042	217

8/16/2019 9:23:01 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRan02.dgn



- XX — DRAINAGE AREA NUMBER
- ## — ACRES
- — DRAINAGE AREA
- ← — FLOW DIRECTION

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**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

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 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

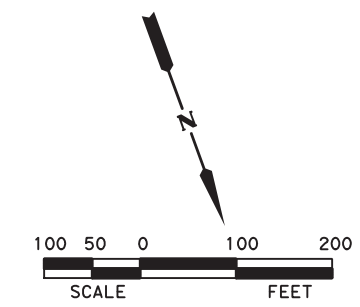
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
 STA 180+00.00 TO STA 202+00.00

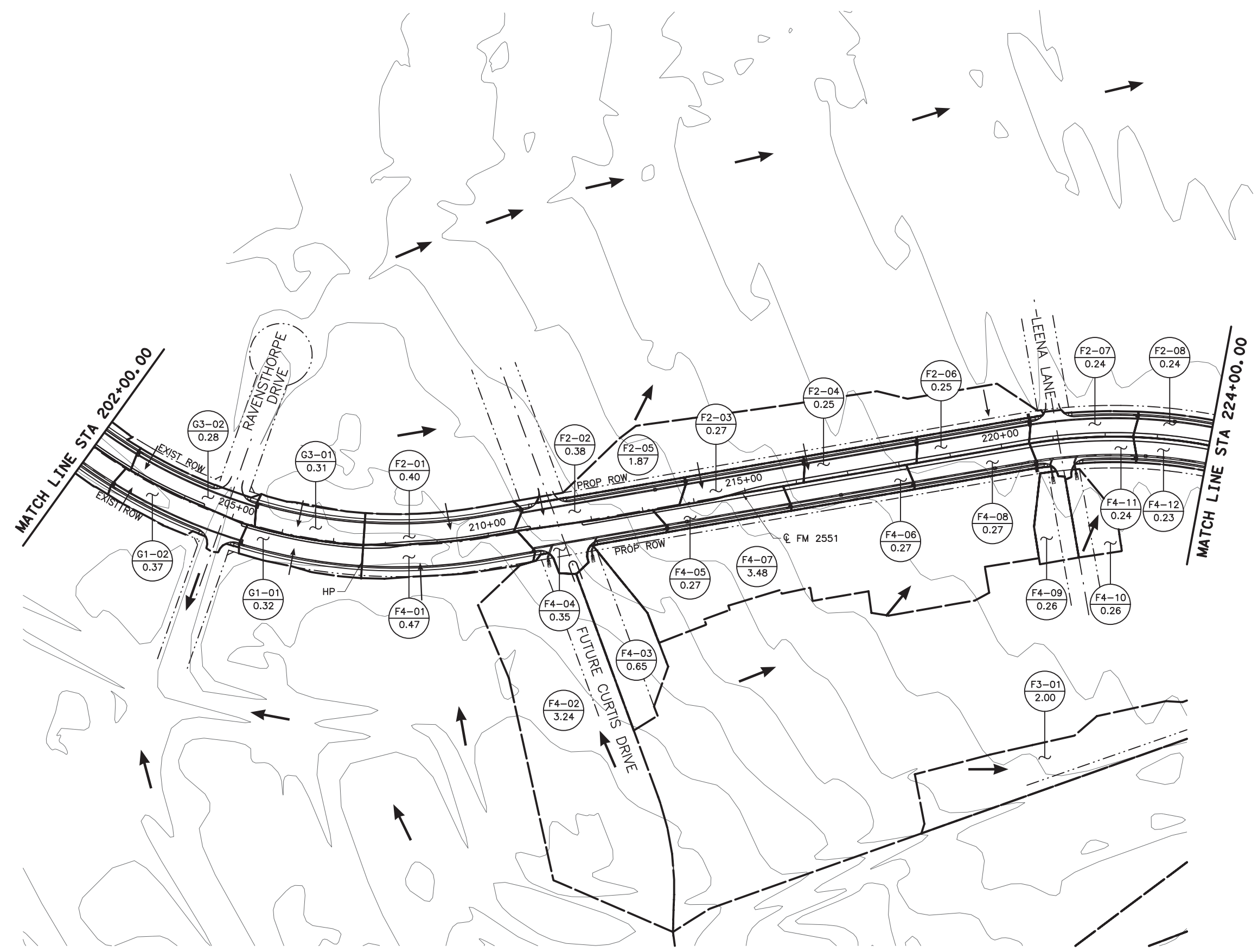
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Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	18	COLLIN	2056	01	042

SHEET 2 OF 9

8/16/2019 9:23:13 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRan03.dgn



- XX DRAINAGE AREA NUMBER
- ## ACRES
- DRAINAGE AREA
- ← FLOW DIRECTION



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Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

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 TEXAS REGISTERED ENGINEERING FIRM, F-1741

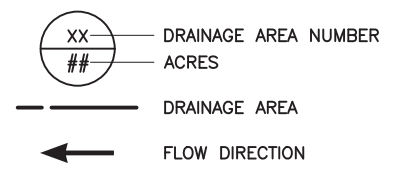
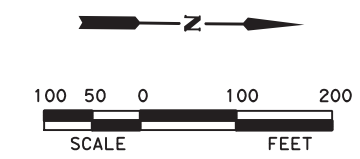
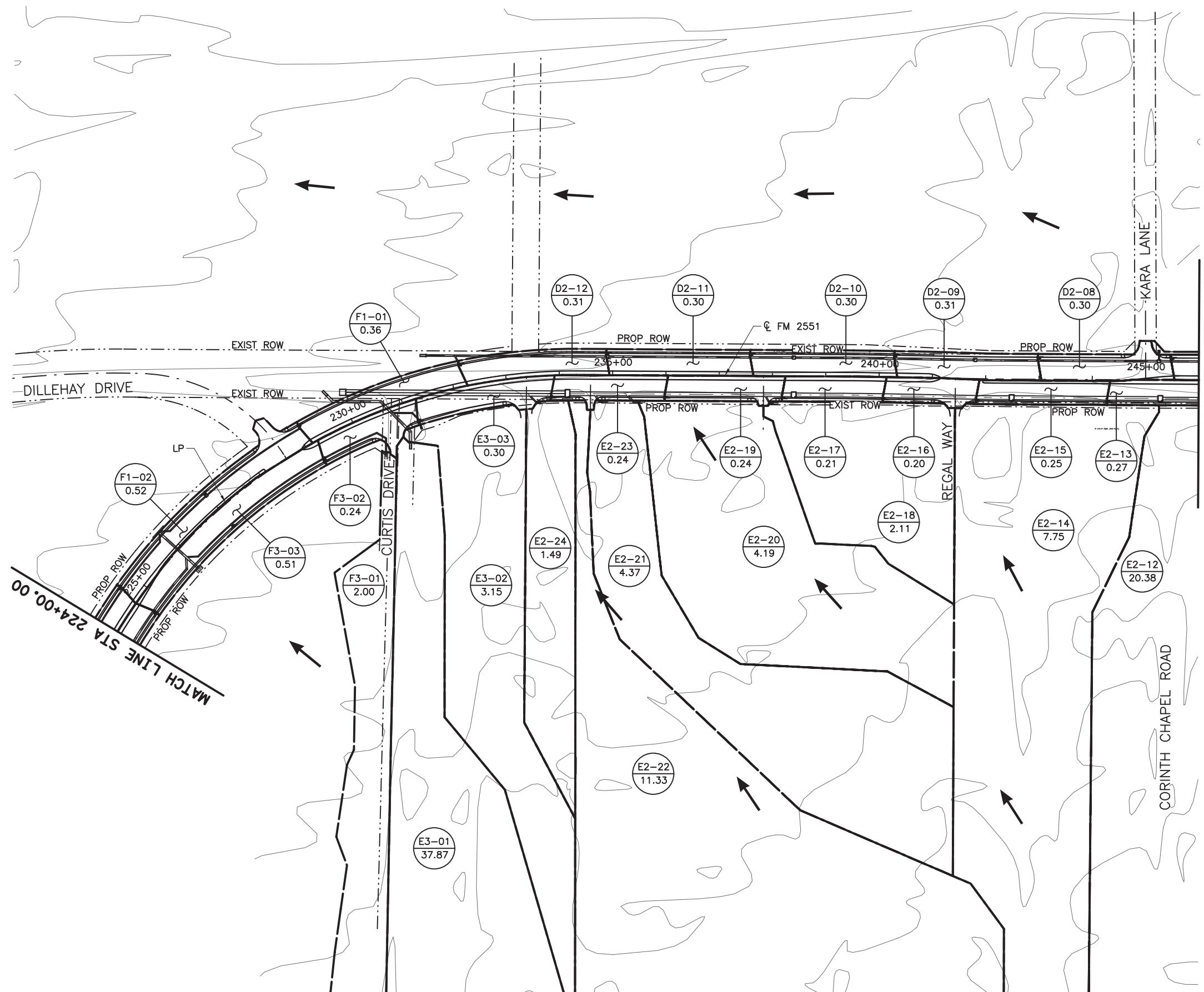
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
 STA 202+00.00 TO STA 224+00.00

Designed: CPY	FED. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: 18		COLLIN	2056 01	042
				SHEET NO.:
				219

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Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

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 TEXAS REGISTERED ENGINEERING FIRM, F-1741

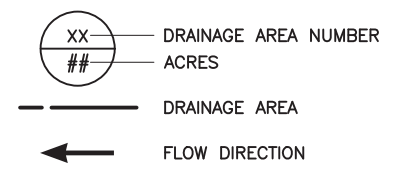
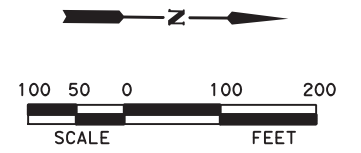
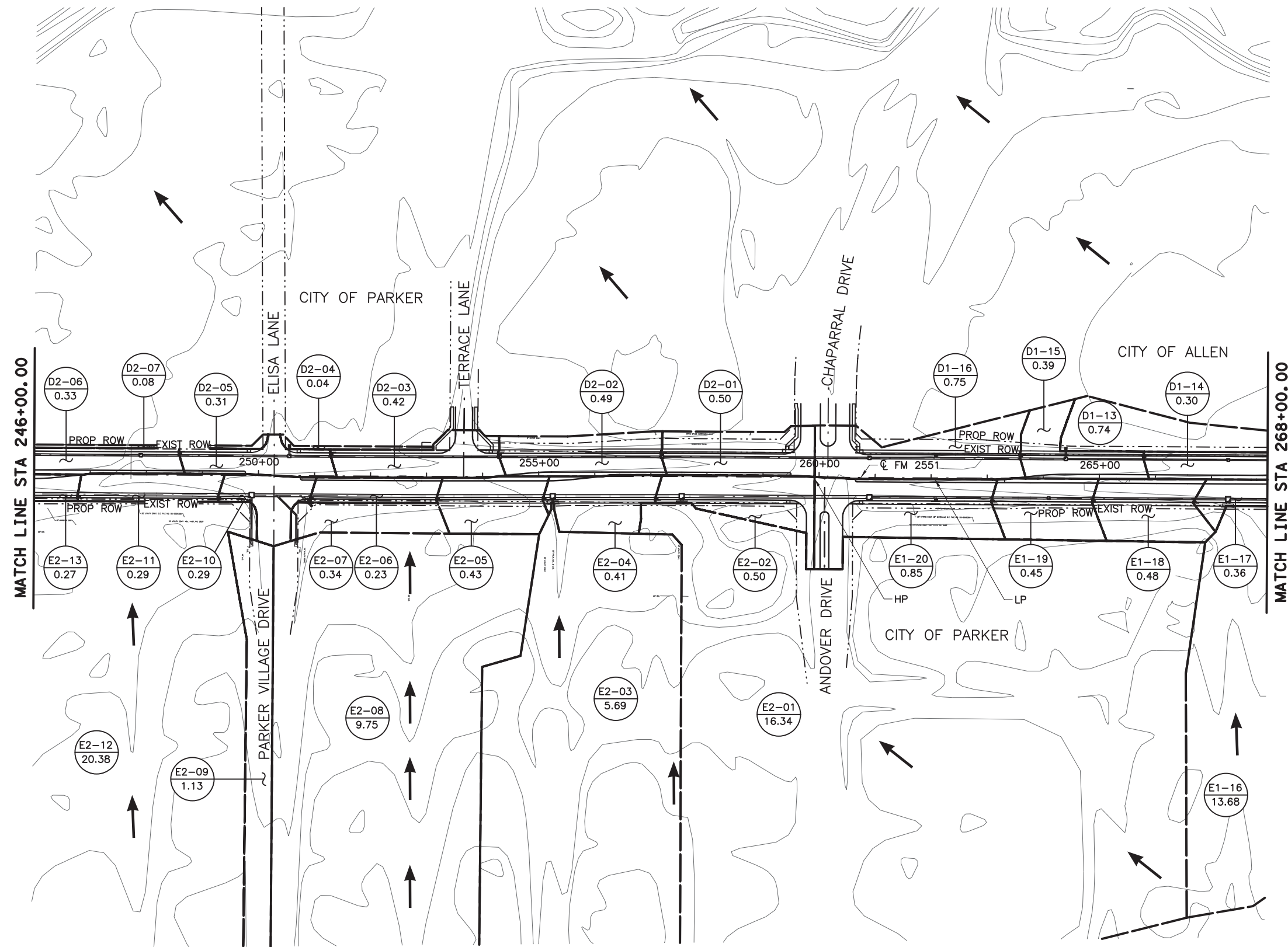
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
 STA 224+00.00 TO STA 246+00.00

Designed:	CPY	FED. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL SECTION NO.	JOB SHEET NO.
Checked:	18	COLLIN	2056	01 042	220

8/16/2019 9:23:30 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRan05.dgn



- NOTES:
- REFER TO BC STANDARDS FOR FURTHER INFORMATION.
  - ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.
  - WORK ZONE SPEED LIMIT SIGNS TO BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER.

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 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

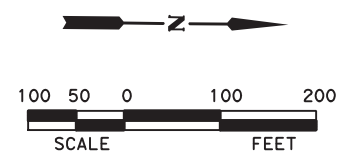
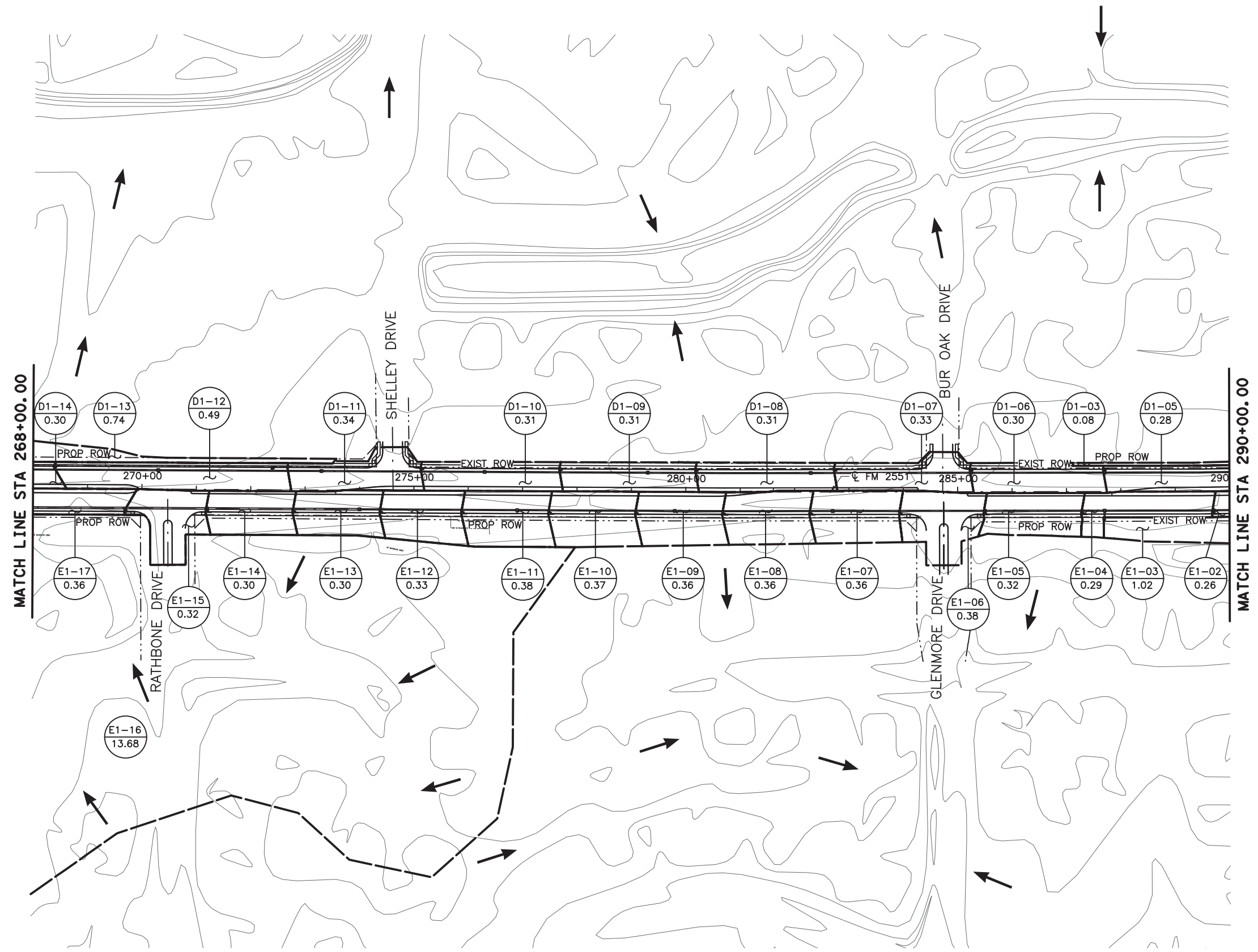
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
 STA 246+00.00 TO STA 268+00.00

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	18	COLLIN	2056	01	042
					SHEET NO. 221



8/16/2019 9:23:44 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRan06.dgn



- XX DRAINAGE AREA NUMBER
- ## ACRES
- DRAINAGE AREA
- ← FLOW DIRECTION

- NOTES:
1. REFER TO BC STANDARDS FOR FURTHER INFORMATION.
  2. ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.
  3. WORK ZONE SPEED LIMIT SIGNS TO BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER.

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Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

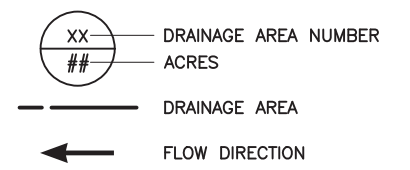
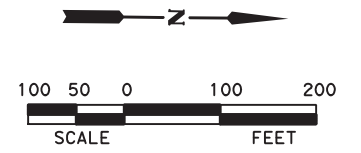
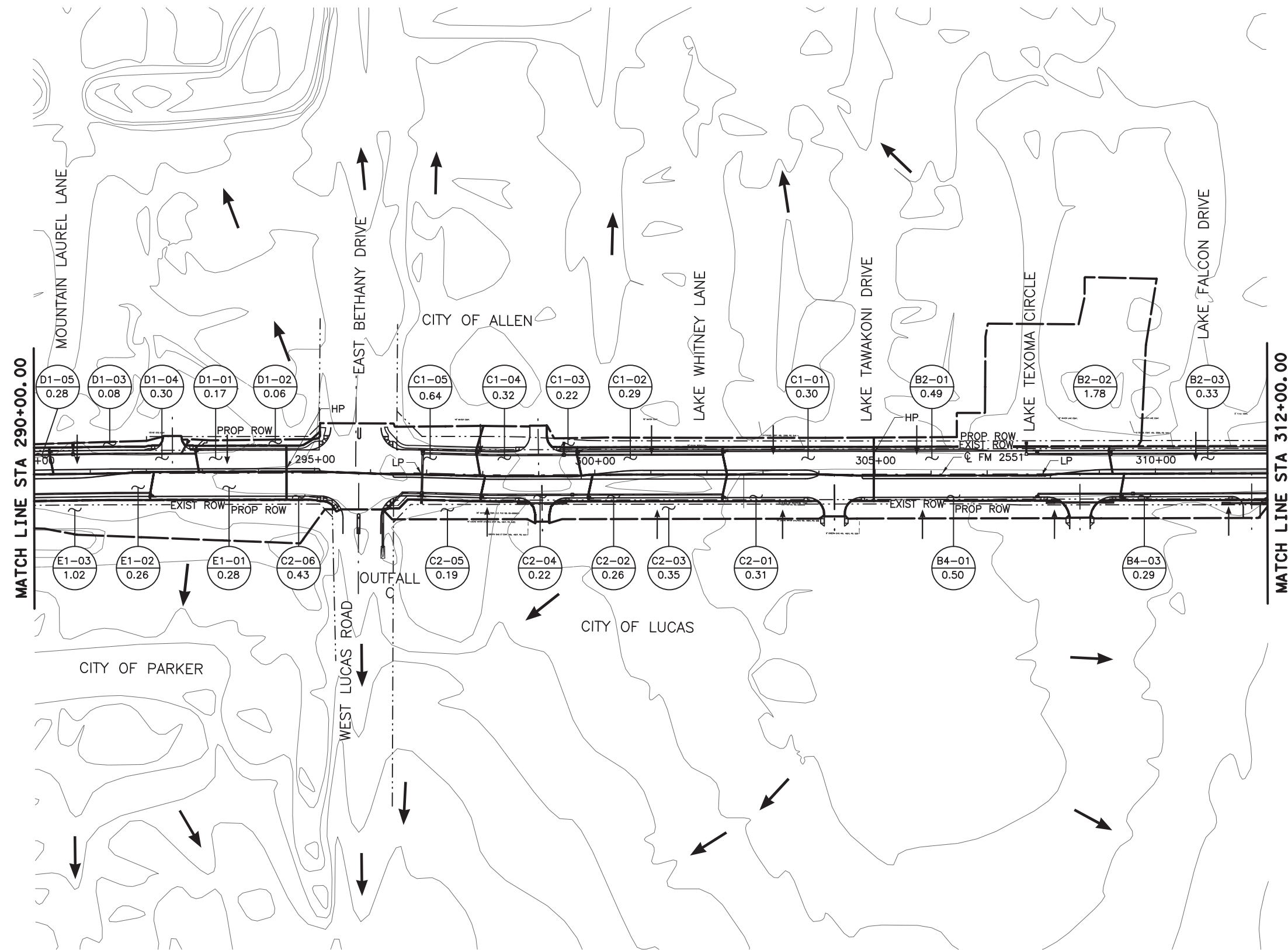
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
STA 268+00.00 TO STA 290+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: 18	SHEET NO. 222			

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- NOTES:
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  - ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.
  - WORK ZONE SPEED LIMIT SIGNS TO BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER.

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 TEXAS REGISTERED ENGINEERING FIRM, F-1741

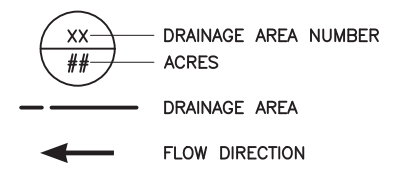
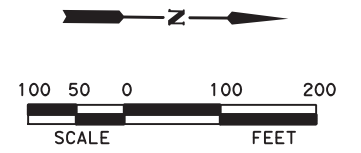
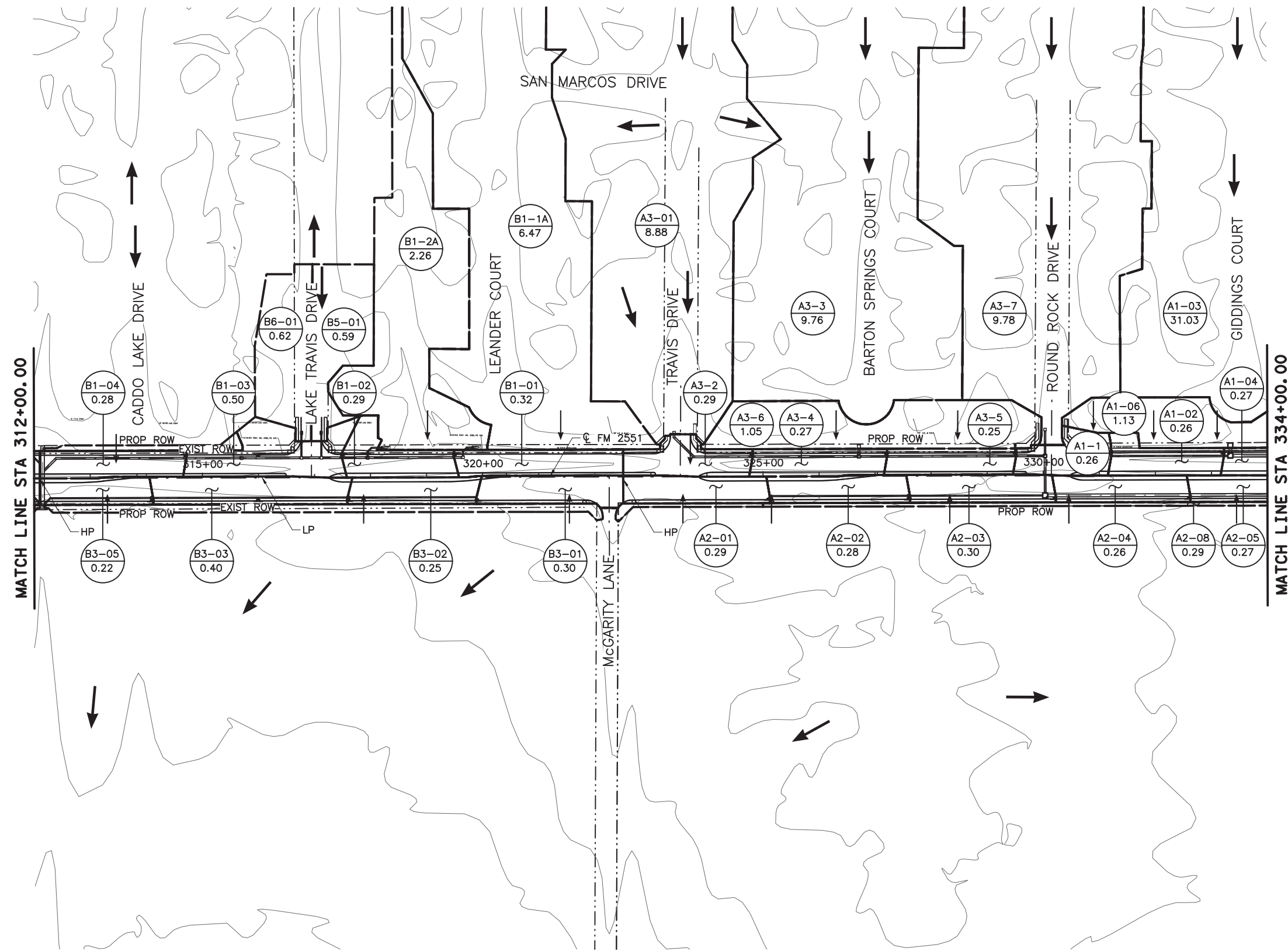
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
 STA 290+00.00 TO STA 312+00.00

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	18		COLLIN	2056 01	042
					SHEET NO.
					223

8/16/2019 9:24:01 AM aklocinski pw:/Active Projects/COLLIN/201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRan08.dgn



- NOTES:
- REFER TO BC STANDARDS FOR FURTHER INFORMATION.
  - ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.
  - WORK ZONE SPEED LIMIT SIGNS TO BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER.

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**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
 STA 312+00.00 TO STA 334+00.00

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL SECTION NO.	JOB SHEET NO.
Checked:	18		COLLIN	2056 01 042	224

8/16/2019 9:24:10 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRan09.dgn



NOTES:

1. REFER TO BC STANDARDS FOR FURTHER INFORMATION.
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3. WORK ZONE SPEED LIMIT SIGNS TO BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER.

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NO.	REVISION	BY	DATE

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TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INTERIOR DRAINAGE AREA MAP**  
STA 334+00.00 TO END PROJECT

Designed:	CPY	FED. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	18	COLLIN	2056	01	042
					SHEET NO. 225

8/16/2019 9:24:16 AM aklocinski pw:/Active Projects/COLL201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRcomp01.dgn

RUNOFF GEOPAK DRAINAGE COMPUTATIONS

DRAINAGE AREA		SUBAREA (1)	C-VALUE (PAVEMENT CONC) (1)	SUBAREA (2)	C-VALUE (PAVEMENT ASPH) (2)	SUBAREA (3)	C-VALUE (COMMERCIAL) (3)	SUBAREA (4)	C-VALUE (SINGLE FAMILY) (4)	SUBAREA (5)	C-VALUE (GRASS) (5)	COMPOSITE C-VALUE	TIME OF CONCENTRATION	INTENSITY	DISCHARGE	DESIGN FREQUENCY
ID	ACRES	ACRES		ACRES		ACRES	0.35	ACRES	0.35	ACRES	0.35		MIN	IN/HR	CFS	YR
A1-01	0.26	0.21	0.92							0.05	0.35	0.82	10	5.88	1.24	5-YR
A1-02	0.26	0.23	0.92							0.03	0.35	0.86	10	5.88	1.31	5-YR
A1-03	31.03							7.31	0.4	23.72	0.35	0.36	15	4.91	55.12	5-YR
A1-04	0.27	0.27	0.92									0.92	10	5.88	1.46	5-YR
A1-05	3.48							3.48	0.4	0.00	0.35	0.40	15	4.91	6.83	5-YR
A1-06	1.13	0.05	0.92					0.49	0.4	0.58	0.35	0.40	10	5.88	2.63	5-YR
A1-07	0.30	0.23	0.92					0.03	0.4	0.03	0.35	0.80	10	5.88	1.40	5-YR
A1-08	0.60							0.60	0.4	0.00	0.35	0.40	10	5.88	1.41	5-YR
A1-09	0.38	0.20	0.92					0.01	0.4	0.16	0.35	0.66	10	5.88	1.46	5-YR
A1-10	0.37	0.21	0.92							0.15	0.35	0.68	10	5.88	1.48	5-YR
A1-11	0.31	0.23	0.92							0.08	0.35	0.78	10	5.88	1.43	5-YR
A1-12	0.27	0.27	0.92									0.92	10	5.88	1.46	5-YR
A1-13	0.16	0.16	0.92									0.92	10	5.88	0.88	5-YR
A1-14	0.24	0.24	0.92							0.00	0.35	0.91	10	5.88	1.30	5-YR
A2-01	0.29	0.29	0.92									0.92	10	5.88	1.56	5-YR
A2-02	0.28	0.28	0.92									0.92	10	5.88	1.51	5-YR
A2-03	0.30	0.30	0.92									0.92	10	5.88	1.61	5-YR
A2-04	0.26	0.26	0.92									0.92	10	5.88	1.42	5-YR
A2-05	0.27	0.27	0.92									0.92	10	5.88	1.47	5-YR
A2-06	0.27	0.27	0.92									0.92	10	5.88	1.47	5-YR
A2-07	0.27	0.27	0.92									0.92	10	5.88	1.47	5-YR
A2-08	0.29	0.22	0.92							0.07	0.35	0.78	10	5.88	1.31	5-YR
A2-09	0.26	0.26	0.92									0.92	10	5.88	1.40	5-YR
A2-10	0.28	0.27	0.92							0.02	0.35	0.89	10	5.88	1.47	5-YR
A2-11	0.66	0.65	0.92							0.02	0.35	0.90	10	5.88	3.53	5-YR
A3-01	8.88	0.02	0.92					8.81	0.4	0.04	0.35	0.40	15	4.91	17.48	5-YR
A3-02	0.29	0.29	0.92									0.92	10	5.88	1.58	5-YR
A3-03	9.76							9.76	0.4	0.00	0.35	0.40	15	4.91	19.17	5-YR
A3-04	0.27	0.27	0.92									0.92	10	5.88	1.44	5-YR
A3-05	0.25	0.25	0.92									0.92	10	5.88	1.33	5-YR
A3-06	1.05	0.06	0.92					0.44	0.4	0.55	0.35	0.41	10	5.88	2.50	5-YR
A3-07	9.78	0.03	0.92					9.74	0.4	0.01	0.35	0.40	15	4.91	19.26	5-YR
B1-01	0.32	0.32	0.92									0.92	10	5.88	1.73	5-YR
B1-01A	6.47	0.03	0.92					6.17	0.4	0.27	0.35	0.40	15	4.91	12.71	5-YR
B1-02	0.29	0.23	0.92					0.06	0.4			0.81	10	5.88	1.39	5-YR
B1-02A	2.26	0.02	0.92					2.12	0.4	0.13	0.35	0.40	15	4.91	4.46	5-YR
B1-03	0.50	0.35	0.92					0.15	0.4			0.76	10	5.88	2.23	5-YR
B1-04	0.28	0.28	0.92									0.92	10	5.88	1.53	5-YR
B2-01	0.49	0.49	0.92									0.92	10	5.88	2.67	5-YR
B2-02	1.78	0.04	0.92					1.74	0.4			0.41	15	4.91	3.61	5-YR
B2-03	0.33	0.33	0.92									0.92	10	5.88	1.76	5-YR
B3-01	0.30	0.30	0.92									0.92	10	5.88	1.64	5-YR
B3-02	0.25	0.25	0.92									0.92	10	5.88	1.36	5-YR
B3-03	0.40	0.40	0.92									0.92	10	5.88	2.17	5-YR
B3-05	0.22	0.22	0.92									0.92	10	5.88	1.20	5-YR
B4-01	0.50	0.50	0.92									0.92	10	5.88	2.70	5-YR
B4-03	0.29	0.29	0.92									0.92	10	5.88	1.59	5-YR
B5-01	0.59	0.02	0.92					0.56	0.4			0.42	10	5.88	1.45	5-YR
B6-01	0.62	0.02	0.92					0.60	0.4			0.42	10	5.88	1.53	5-YR
C1-01	0.30	0.30	0.92									0.92	10	5.88	1.64	5-YR
C1-02	0.29	0.29	0.92									0.92	10	5.88	1.58	5-YR
C1-03	0.22	0.06	0.92			0.03	0.65	0.14	0.4			0.56	10	5.88	0.74	5-YR
C1-04	0.32	0.24	0.92			0.08	0.65					0.86	10	5.88	1.60	5-YR
C1-05	0.64	0.47	0.92			0.14	0.65					0.84	10	5.88	3.14	5-YR
C2-01	0.31	0.31	0.92							0.03	0.35	0.84	10	5.88	3.14	5-YR
C2-02	0.26	0.26	0.92									0.92	10	5.88	1.70	5-YR
C2-03	0.35	0.06	0.92							0.29	0.35	0.45	10	5.88	1.41	5-YR
C2-04	0.22	0.22	0.92									0.92	10	5.88	0.93	5-YR
C2-05	0.19	0.05	0.92							0.14	0.35	0.50	10	5.88	1.21	5-YR
C2-06	0.43	0.43	0.92									0.92	10	5.88	0.56	5-YR
D1-01	0.17	0.13	0.92							0.04	0.35	0.77	10	5.88	2.32	5-YR
D1-02	0.06	0.00	0.92							0.05	0.35	0.37	10	5.88	0.78	5-YR
D1-03	0.08							0.08	0.4	0.01	0.35	0.40	10	5.88	0.12	5-YR
D1-04	0.30	0.28	0.92					0.01	0.4	0.01	0.35	0.89	10	5.88	0.19	5-YR
D1-05	0.28	0.28	0.92					0.01	0.4			0.91	10	5.88	1.54	5-YR
D1-06	0.30	0.27	0.92					0.03	0.4			0.87	10	5.88	1.51	5-YR
D1-07	0.33	0.30	0.92					0.03	0.4			0.87	10	5.88	1.55	5-YR
D1-08	0.31	0.27	0.92					0.04	0.4			0.86	10	5.88	1.69	5-YR
D1-09	0.31	0.27	0.92					0.04	0.4			0.86	10	5.88	1.56	5-YR
D1-10	0.31	0.28	0.92					0.03	0.4			0.86	10	5.88	1.57	5-YR
D1-11	0.34	0.32	0.92					0.03	0.4			0.86	10	5.88	1.59	5-YR
D1-12	0.49	0.48	0.92					0.00	0.4	0.02	0.35	0.89	10	5.88	1.78	5-YR
D1-13	0.74									0.01	0.35	0.91	10	5.88	2.60	5-YR
D1-14	0.30	0.29	0.92							0.74	0.35	0.35	10	5.88	1.53	5-YR
D1-15	0.39	0.24	0.92							0.01	0.35	0.91	10	5.88	1.59	5-YR
D1-16	0.75	0.50	0.92					0.14	0.35	0.71		0.71	10	5.88	1.60	5-YR
D2-01	0.50	0.33	0.92					0.00	0.4	0.24	0.35	0.73	10	5.88	3.23	5-YR
D2-02	0.49	0.32	0.92					0.17	0.4			0.74	10	5.88	2.17	5-YR
D2-03	0.42	0.39	0.92					0.17	0.4			0.74	10	5.88	2.12	5-YR
D2-04	0.04	0.00	0.92					0.02	0.4	0.01	0.35	0.88	10	5.88	2.19	5-YR
D2-05	0.31	0.30	0.92					0.03	0.4	0.00	0.35	0.45	10	5.88	2.19	5-YR
D2-06	0.33	0.32	0.92					0.01	0.4			0.91	10	5.88	0.10	5-YR
D2-07	0.08	0.01	0.92					0.01	0.4			0.90	10	5.88	1.65	5-YR
D2-08	0.30	0.29	0.92					0.06	0.4			0.50	10	5.88	1.76	5-YR
D2-09	0.31	0.30	0.92					0.01	0.4			0.91	10	5.88	0.22	5-YR
D2-10	0.30	0.30	0.92					0.01	0.4	0.00	0.35	0.91	10	5.88	1.60	5-YR
								0.00	0.4			0.91	10	5.88	1.64	5-YR
												0.92	10	5.88	1.64	5-YR

100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE
<p>TEXAS REGISTERED ENGINEERING FIRM, F-1741</p> <p><b>Texas Department of Transportation</b></p> <p>FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET) FM 2551 (MURPHY ROAD)</p> <p style="text-align: center;">RUNOFF COMPUTATIONS</p>			
Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042
Checked: CPY			HIGHWAY NO. FM 2551
Drawn:	DIST. COLLIN	COUNTY	CONTROL NO. 2056
Checked:			SECTION NO. 01
			JOB NO. 042
			SHEET NO. 226

8/16/2019 9:24:21 AM oklocinski pw:/Active Projects/COLL201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRcomp02.dgn

### RUNOFF GEOPAK DRAINAGE COMPUTATIONS

DRAINAGE AREA		SUBAREA (1)	C-VALUE (PAVEMENT CONC) (1)	SUBAREA (2)	C-VALUE (PAVEMENT ASPH) (2)	SUBAREA (3)	C-VALUE (COMMERCIAL) (3)	SUBAREA (4)	C-VALUE (SINGLE FAMILY) (4)	SUBAREA (5)	C-VALUE (GRASS) (5)	COMPOSITE C-VALUE	TIME OF CONCENTRATION	INTENSITY	DISCHARGE	DESIGN FREQUENCY
ID	ACRES	ACRES		ACRES		ACRES	0.35	ACRES	0.35	ACRES	0.35		MIN	IN/HR	CFS	YR
D2-11	0.30	0.30	0.92									0.92	10	5.88	1.64	5-YR
D2-12	0.31	0.31	0.92									0.92	10	5.88	1.67	5-YR
E1-01	0.28	0.28	0.92									0.92	10	5.88	1.49	5-YR
E1-02	0.26	0.26	0.92									0.92	10	5.88	1.42	5-YR
E1-03	1.02	0.23	0.92					0.78	0.4			0.52	10	5.88	3.11	5-YR
E1-04	0.29	0.27	0.92					0.02	0.4			0.88	10	5.88	1.52	5-YR
E1-05	0.32	0.24	0.92					0.09	0.4			0.78	10	5.88	1.49	5-YR
E1-06	0.38	0.27	0.92					0.11	0.4			0.77	10	5.88	1.72	5-YR
E1-07	0.36	0.23	0.92					0.13	0.4			0.74	10	5.88	1.56	5-YR
E1-08	0.36	0.22	0.92					0.14	0.4			0.72	10	5.88	1.51	5-YR
E1-09	0.36	0.21	0.92					0.15	0.4			0.71	10	5.88	1.50	5-YR
E1-10	0.37	0.21	0.92					0.16	0.4			0.70	10	5.88	1.53	5-YR
E1-11	0.38	0.21	0.92					0.16	0.4			0.70	10	5.88	1.54	5-YR
E1-12	0.33	0.20	0.92					0.12	0.4			0.72	10	5.88	1.38	5-YR
E1-13	0.30	0.21	0.92					0.09	0.4			0.76	10	5.88	1.36	5-YR
E1-14	0.30	0.21	0.92					0.09	0.4			0.76	10	5.88	1.32	5-YR
E1-15	0.32	0.24	0.92					0.08	0.4			0.79	10	5.88	1.50	5-YR
E1-16	13.68	0.08	0.92					13.59	0.4			0.40	16.5	4.68	25.84	5-YR
E1-17	0.36	0.34	0.92					0.02	0.4			0.89	10	5.88	1.87	5-YR
E1-18	0.48	0.25	0.92					0.24	0.4			0.67	10	5.88	1.89	5-YR
E1-19	0.45	0.24	0.92					0.21	0.4			0.67	10	5.88	1.79	5-YR
E1-20	0.85	0.48	0.92					0.38	0.4			0.69	10	5.88	3.46	5-YR
E2-01	16.34	0.02	0.92					16.32	0.4			0.40	16.5	4.68	30.68	5-YR
E2-02	0.50	0.40	0.92					0.10	0.4			0.82	10	5.88	2.39	5-YR
E2-03	5.69	0.00	0.92					5.69	0.4			0.40	16.5	4.68	10.66	5-YR
E2-04	0.41	0.26	0.92					0.15	0.4			0.73	10	5.88	1.76	5-YR
E2-05	0.43	0.25	0.92					0.18	0.4			0.70	10	5.88	1.78	5-YR
E2-06	0.23	0.23	0.92									0.92	10	5.88	1.26	5-YR
E2-07	0.34	0.09	0.92					0.25	0.4			0.54	10	5.88	1.09	5-YR
E2-08	9.75	0.02	0.92					9.73	0.4			0.40	16	4.76	18.58	5-YR
E2-09	1.13	0.02	0.92					1.11	0.4			0.41	16	4.76	2.19	5-YR
E2-10	0.29	0.29	0.92									0.92	10	5.88	1.55	5-YR
E2-11	0.29	0.29	0.92									0.92	10	5.88	1.56	5-YR
E2-12	20.38	0.15	0.92					20.22	0.4			0.40	17	4.62	37.98	5-YR
E2-13	0.27	0.27	0.92									0.92	10	5.88	1.47	5-YR
E2-14	7.75	0.13	0.92					7.62	0.4			0.41	16.5	4.68	14.82	5-YR
E2-15	0.25	0.25	0.92									0.92	10	5.88	1.37	5-YR
E2-16	0.20	0.20	0.92									0.92	10	5.88	1.06	5-YR
E2-17	0.21	0.21	0.92									0.92	10	5.88	1.12	5-YR
E2-18	2.11	0.08	0.92					2.04	0.4			0.42	15	4.91	4.35	5-YR
E2-19	0.24	0.24	0.92									0.92	10	5.88	1.32	5-YR
E2-20	4.19	0.03	0.92					4.16	0.4			0.40	16	4.76	8.05	5-YR
E2-21	4.37	0.01	0.92					4.36	0.4			0.40	16	4.76	8.36	5-YR
E2-22	11.33	0.01	0.92					11.32	0.4			0.40	17	4.62	20.93	5-YR
E2-23	0.24	0.24	0.92									0.92	10	5.88	1.29	5-YR
E2-24	1.49	0.01	0.92					1.47	0.4			0.40	16	4.76	2.87	5-YR
E3-01	37.87	0.01	0.92	0.35	0.9			37.51	0.4			0.40	17	4.62	70.75	5-YR
E3-02	3.15	0.03	0.92					3.12	0.4			0.41	16	4.76	6.07	5-YR
E3-03	0.30	0.30	0.92									0.92	10	5.88	1.61	5-YR
F1-01	0.36	0.36	0.92									0.92	10	5.88	1.94	5-YR
F1-02	0.52	0.50	0.92					0.03	0.4			0.89	10	5.88	2.76	5-YR
F2-01	0.40	0.35	0.92					0.05	0.4			0.86	10	5.88	2.01	5-YR
F2-02	0.38	0.37	0.92					0.01	0.4			0.91	10	5.88	2.04	5-YR
F2-03	0.27	0.27	0.92									0.92	10	5.88	1.45	5-YR
F2-04	0.25	0.25	0.92									0.92	10	5.88	1.34	5-YR
F2-05	1.87	0.09	0.92					1.78	0.4			0.42	10	5.88	4.66	5-YR
F2-06	0.25	0.25	0.92									0.92	10	5.88	1.34	5-YR
F2-07	0.24	0.23	0.92					0.00	0.4			0.91	10	5.88	1.27	5-YR
F2-08	0.24	0.24	0.92									0.92	10	5.88	1.31	5-YR
F3-01	2.00	0.00	0.92	0.32	0.9			1.68	0.4			0.48	10	5.88	5.65	5-YR
F3-02	0.24	0.24	0.92	0.00	0.9							0.92	10	5.88	1.31	5-YR
F3-03	0.51	0.51	0.92									0.92	10	5.88	2.76	5-YR
F4-01	0.47	0.40	0.92					0.07	0.4			0.84	10	5.88	2.34	5-YR
F4-02	3.24	0.00	0.92					3.24	0.4			0.40	15	4.91	6.36	5-YR
F4-03	0.65	0.00	0.92					0.65	0.4			0.40	10	5.88	1.54	5-YR
F4-04	0.35	0.30	0.92					0.06	0.4			0.83	10	5.88	1.73	5-YR
F4-05	0.27	0.27	0.92									0.92	10	5.88	1.46	5-YR
F4-06	0.27	0.27	0.92									0.92	10	5.88	1.46	5-YR
F4-07	3.48	0.13	0.92					3.35	0.4			0.42	10	5.88	8.59	5-YR
F4-08	0.27	0.27	0.92									0.92	10	5.88	1.46	5-YR
F4-09	0.26							0.26	0.4			0.40	10	5.88	0.61	5-YR
F4-10	0.26							0.26	0.4			0.40	10	5.88	0.62	5-YR
F4-11	0.24	0.22	0.92					0.01	0.4			0.89	10	5.88	1.24	5-YR
F4-12	0.23	0.23	0.92									0.92	10	5.88	1.24	5-YR
G1-01	0.32	0.27	0.92					0.05	0.4			0.84	10	5.88	1.59	5-YR
G1-02	0.37	0.34	0.92					0.03	0.4			0.88	10	5.88	1.91	5-YR
G1-03	0.37	0.32	0.92					0.05	0.4			0.85	10	5.88	1.83	5-YR
G2-01	0.50	0.50	0.92					0.01	0.4			0.91	10	5.88	2.70	5-YR
G2-02	0.51	0.49	0.92					0.02	0.4			0.90	10	5.88	2.69	5-YR
G3-01	0.31	0.27	0.92					0.04	0.4			0.86	10	5.88	1.55	5-YR
G3-02	0.28	0.28	0.92					0.00	0.4			0.92	10	5.88	1.52	5-YR
G3-03	0.34	0.30	0.92					0.03	0.4			0.87	10	5.88	1.71	5-YR
H1-01	0.25	0.25	0.92							0.00	0.35	0.92	10	5.88	1.33	5-YR
H1-02	0.25	0.25	0.92									0.92	10	5.88	1.36	5-YR
H1-03	0.23	0.23	0.92									0.92	10	5.88	1.27	5-YR
H1-04	1.22	0.07	0.92							1.15	0.35	0.38	10	5.88	2.73	5-YR

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE
 TEXAS REGISTERED ENGINEERING FIRM, F-1741 Texas Department of Transportation FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET) FM 2551 (MURPHY ROAD) <b>RUNOFF COMPUTATIONS</b>			
Designed: CPY	FED. RD. DIST. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042
Checked: CPY			HIGHWAY NO. FM 2551
Drawn:	DIST. COLLIN	COUNTY	CONTROL NO. 2056
Checked:			SECTION NO. 01
			JOB NO. 042
			SHEET NO. 227

8/16/2019 9:24:27 AM oklocinski pw:/Active Projects/COLL1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRcomp03.dgn

**RUNOFF GEOPAK DRAINAGE COMPUTATIONS**

DRAINAGE AREA		SUBAREA (1)	C-VALUE (PAVEMENT CONC) (1)	SUBAREA (2)	C-VALUE (PAVEMENT ASPH) (2)	SUBAREA (3)	C-VALUE (COMMERCIAL) (3)	SUBAREA (4)	C-VALUE (SINGLE FAMILY) (4)	SUBAREA (5)	C-VALUE (GRASS) (5)	COMPOSITE C-VALUE	TIME OF CONCENTRATION	INTENSITY	DISCHARGE	DESIGN FREQUENCY
ID	ACRES	ACRES		ACRES		ACRES	0.35	ACRES	0.35	ACRES	0.35		MIN	IN/HR	CFS	YR
H1-05	0.30	0.29	0.92							0.00	0.35	0.92	10	5.88	1.60	5-YR
H1-06	0.29	0.29	0.92									0.92	10	5.88	1.57	5-YR
H1-07	0.20	0.06	0.92							0.14	0.35	0.51	10	5.88	0.59	5-YR
H1-08	0.30	0.28	0.92							0.02	0.35	0.88	10	5.88	1.56	5-YR
H1-09	0.32	0.28	0.92							0.04	0.35	0.85	10	5.88	1.59	5-YR
H1-10	0.30	0.27	0.92							0.02	0.35	0.87	10	5.88	1.53	5-YR
H1-11	0.25	0.25	0.92									0.92	10	5.88	1.37	5-YR
H1-12	0.10	0.04	0.92			0.03	0.65			0.03	0.35	0.66	10	5.88	0.38	5-YR
H1-13	0.29	0.27	0.92			0.02	0.65					0.90	10	5.88	1.55	5-YR
H1-14	0.32	0.27	0.92			0.05	0.65					0.88	10	5.88	1.66	5-YR
J1-01	0.26	0.26	0.92									0.92	10	5.88	1.41	5-YR
J1-02	0.26	0.26	0.92									0.92	10	5.88	1.42	5-YR
J1-03	0.26	0.26	0.92									0.92	10	5.88	1.41	5-YR
J1-04	11.96	0.10	0.92					0.01	0.4	11.85	0.35	0.35	15	4.91	20.82	5-YR
J1-05	0.59	0.18	0.92							0.41	0.35	0.53	12	5.44	1.69	5-YR
J1-06	0.78	0.09	0.92							0.68	0.35	0.42	12	5.44	1.77	5-YR
J1-07	0.74	0.09	0.92							0.65	0.35	0.42	12	5.44	1.70	5-YR
J1-08	0.76	0.09	0.92							0.66	0.35	0.42	12	5.44	1.73	5-YR
J1-09	0.73	0.09	0.92							0.64	0.35	0.42	12	5.44	1.67	5-YR
J1-10	0.75	0.09	0.92							0.66	0.35	0.42	12	5.44	1.71	5-YR
J1-11	0.72	0.09	0.92							0.63	0.35	0.42	12	5.44	1.63	5-YR
J1-12	0.73	0.09	0.92							0.65	0.35	0.42	12	5.44	1.66	5-YR
J1-13	0.75	0.09	0.92							0.66	0.35	0.42	12	5.44	1.69	5-YR
J1-14	0.76	0.09	0.92							0.68	0.35	0.41	12	5.44	1.72	5-YR
J1-15	0.72	0.08	0.92							0.64	0.35	0.41	12	5.44	1.62	5-YR
J1-16	0.73	0.08	0.92							0.66	0.35	0.41	12	5.44	1.64	5-YR
J1-17	0.75	0.08	0.92							0.67	0.35	0.41	12	5.44	1.67	5-YR
J1-18	0.73	0.12	0.92							0.62	0.35	0.44	12	5.44	1.75	5-YR
J1-19	0.70	0.12	0.92							0.58	0.35	0.45	12	5.44	1.72	5-YR
J1-20	0.63	0.10	0.92							0.53	0.35	0.44	10	5.88	1.65	5-YR
J1-21	0.78	0.12	0.92							0.66	0.35	0.44	10	5.88	2.01	5-YR
J1-22	1.55	0.02	0.92							1.53	0.35	0.36	10	5.88	3.26	5-YR
J1-23	0.47	0.32	0.92							0.15	0.35	0.74	10	5.88	2.06	5-YR
J1-24	0.59	0.27	0.92							0.32	0.35	0.61	10	5.88	2.13	5-YR

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**RUNOFF COMPUTATIONS**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	18	COLLIN	2056	01	042
					SHEET NO. 228

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ON-GRADE INLET GEOPAK DRAINAGE COMPUTATIONS

INLET ID	TYPE	REFERENCE CHAIN	STATION	OFFSET	PROFILE TYPE	CAPACITY	DISCHARGE	BY-PASS	BY-PASS TO	INLET LENGTH	INLET DEPRESSION	INLET DEPRESSION WIDTH	LONGITUDINAL SLOPE	SPREAD SLOPE	SPREAD N	MAX ALLOWABLE PONDED WIDTH	PONDED WIDTH	PONDED DEPTH
				(+RT/-LT) FT													FT	FT
A1-01	TY PCU (LEFT)	CL2551	331+20.00	-41.00	On Grade	1.25	1.25	0.01	A1-02	9.5	0.25	1.5	0.35	0.02	0.015	11	9.35	0.19
A1-02	TY PCU (LEFT)	CL2551	333+20.00	-41.00	On Grade	1.30	1.31	0.01	A1-04	9.5	0.25	1.5	0.35	0.02	0.015	11	9.51	0.19
A1-04	TY PCU (LEFT)	CL2551	335+60.00	-41.00	On Grade	1.45	1.47	0.02	A1-07	9.5	0.25	1.5	0.35	0.02	0.015	11	9.92	0.20
A1-07	TY PCU (LEFT)	CL2551	337+70.00	-41.00	On Grade	1.40	1.42	0.01	A1-09	9.5	0.25	1.5	0.35	0.02	0.015	11	9.79	0.20
A1-09	TY PCU (LEFT)	CL2551	339+30.00	-41.00	On Grade	1.45	1.47	0.02	A1-10	9.5	0.25	1.5	0.35	0.02	0.015	11	9.92	0.20
A1-10	TY PCU (LEFT)	CL2551	341+10.00	-41.00	On Grade	1.47	1.49	0.02	A1-11	9.5	0.25	1.5	0.35	0.02	0.015	11	9.98	0.20
A1-11	TY PCU (LEFT)	CL2551	343+10.00	-41.00	On Grade	1.43	1.45	0.02	A1-12	9.5	0.25	1.5	0.35	0.02	0.015	11	9.86	0.20
A1-12	TY PCU (LEFT)	CL2551	345+50.00	-41.00	On Grade	1.46	1.48	0.02	A1-13	9.5	0.25	1.5	0.35	0.02	0.015	11	9.94	0.20
A1-14	TY PCU (RIGHT)	CL2551	347+00.00	-41.00	On Grade	1.29	1.30	0.01	A1-13	9.5	0.25	1.5	0.37	0.02	0.015	11	9.38	0.19
A2-01	TY PCU (RIGHT)	CL2551	325+10.00	41.00	On Grade	1.54	1.56	0.02	A2-02	9.5	0.25	1.5	0.35	0.02	0.015	11	10.14	0.20
A2-02	TY PCU (RIGHT)	CL2551	327+60.00	41.00	On Grade	1.51	1.53	0.02	A2-03	9.5	0.25	1.5	0.35	0.02	0.015	11	10.07	0.20
A2-03	TY PCU (RIGHT)	CL2551	330+20.00	41.00	On Grade	1.60	1.63	0.03	A2-04	9.5	0.25	1.5	0.35	0.02	0.015	11	10.31	0.21
A2-04	TY PCU (RIGHT)	CL2551	332+60.00	41.00	On Grade	1.43	1.44	0.02	A2-05	9.5	0.25	1.5	0.35	0.02	0.015	11	9.85	0.20
A2-05	TY PCU (RIGHT)	CL2551	335+10.00	41.00	On Grade	1.47	1.49	0.02	A2-06	9.5	0.25	1.5	0.35	0.02	0.015	11	9.97	0.20
A2-06	TY PCU (RIGHT)	CL2551	337+60.00	41.00	On Grade	1.47	1.49	0.02	A2-07	9.5	0.25	1.5	0.35	0.02	0.015	11	9.98	0.20
A2-07	TY PCU (RIGHT)	CL2551	340+10.00	41.00	On Grade	1.47	1.49	0.02	A2-08	9.5	0.25	1.5	0.35	0.02	0.015	11	9.98	0.20
A2-09	TY PCU (RIGHT)	CL2551	342+40.00	41.00	On Grade	1.39	1.40	0.01	A2-10	9.5	0.25	1.5	0.35	0.02	0.015	11	9.75	0.19
A2-10	TY PCU (RIGHT)	CL2551	344+60.00	41.00	On Grade	1.46	1.48	0.02	A2-11	9.5	0.25	1.5	0.35	0.02	0.015	11	9.94	0.20
A3-02	TY PCU (LEFT)	CL2551	324+80.00	-41.00	On Grade	1.55	1.58	0.02	A3-04	9.5	0.25	1.5	0.35	0.02	0.015	11	10.18	0.20
A3-04	TY PCU (LEFT)	CL2551	327+20.00	-41.00	On Grade	1.45	1.46	0.02	A3-05	9.5	0.25	1.5	0.35	0.02	0.015	11	9.90	0.20
A3-05	TY PCU (LEFT)	CL2551	329+50.00	-41.00	On Grade	1.33	1.34	0.01	A1-01	9.5	0.25	1.5	0.35	0.02	0.015	11	9.59	0.19
B1-01	TY PCU (RIGHT)	CL2551	319+50.00	-41.00	On Grade	1.68	1.73	0.05	B1-02	9.5	0.25	1.5	0.50	0.02	0.015	11	9.87	0.20
B1-02	TY PCU (RIGHT)	CL2551	317+50.00	-41.00	On Grade	1.42	1.45	0.03	B1-03	9.5	0.25	1.5	0.50	0.02	0.015	11	9.22	0.18
B1-04	TY PCU (LEFT)	CL2551	314+70.00	-41.00	On Grade	1.51	1.53	0.02	B1-03	9.5	0.25	1.5	0.35	0.02	0.015	11	10.08	0.20
B2-03	TY PCU (RIGHT)	CL2551	309+20.00	-41.00	On Grade	1.73	1.76	0.04	B2-01	9.5	0.25	1.5	0.35	0.02	0.015	11	10.62	0.21
B3-01	TY PCU (LEFT)	CL2551	319+90.00	41.00	On Grade	1.60	1.64	0.04	B3-02	9.5	0.25	1.5	0.50	0.02	0.015	11	9.66	0.19
B3-02	TY PCU (LEFT)	CL2551	317+60.00	41.00	On Grade	1.38	1.40	0.02	B3-03	9.5	0.25	1.5	0.50	0.02	0.015	11	9.12	0.18
B3-05	TY PCU (RIGHT)	CL2551	314+10.00	41.00	On Grade	1.20	1.20	0.01	B3-03	9.5	0.25	1.5	0.35	0.02	0.015	11	9.20	0.18
B4-03	TY PCU (LEFT)	CL2551	309+40.00	41.00	On Grade	1.56	1.59	0.02	B4-01	9.5	0.25	1.5	0.35	0.02	0.015	11	10.20	0.20
C1-01	TY PCU (RIGHT)	CL2551	302+30.00	-41.00	On Grade	1.60	1.64	0.04	C1-02	9.5	0.25	1.5	0.43	0.02	0.015	11	9.94	0.20
C1-02	TY PCU (RIGHT)	CL2551	299+70.00	-41.00	On Grade	1.58	1.62	0.03	C1-04	9.5	0.25	1.5	0.43	0.02	0.015	11	9.89	0.20
C1-04	TY PCU (RIGHT)	CL2551	297+90.00	-41.00	On Grade	1.60	1.63	0.04	C1-05	9.5	0.25	1.5	0.43	0.02	0.015	11	9.93	0.20
C2-01	TY PCU (LEFT)	CL2551	302+30.00	41.00	On Grade	1.66	1.70	0.04	C2-02	9.5	0.25	1.5	0.43	0.02	0.015	11	10.08	0.20
C2-02	TY PCU (LEFT)	CL2551	299+90.00	41.00	On Grade	1.43	1.46	0.02	C2-04	9.5	0.25	1.5	0.43	0.02	0.015	11	9.51	0.19
C2-04	TY PCU (LEFT)	CL2551	298+00.00	41.00	On Grade	1.22	1.23	0.01	C2-06	9.5	0.25	1.5	0.43	0.02	0.015	11	8.93	0.18
D1-01	TY PCU (RIGHT)	CL2551	292+90.00	-41.00	On Grade	0.78	0.78	0.00	D1-04	9.5	0.25	1.5	0.35	0.02	0.015	11	7.80	0.16
D1-04	TY PCU (RIGHT)	CL2551	290+30.00	-41.00	On Grade	1.52	1.54	0.02	D1-05	9.5	0.25	1.5	0.35	0.02	0.015	11	10.09	0.20
D1-05	TY PCU (RIGHT)	CL2551	287+70.00	-41.00	On Grade	1.51	1.53	0.02	D1-06	9.5	0.25	1.5	0.35	0.02	0.015	11	10.08	0.20
D1-06	TY PCU (RIGHT)	CL2551	285+25.00	-41.00	On Grade	1.55	1.57	0.02	D1-07	9.5	0.25	1.5	0.35	0.02	0.015	11	10.17	0.20
D1-07	TY PCU (RIGHT)	CL2551	282+75.00	-41.00	On Grade	1.68	1.72	0.03	D1-08	9.5	0.25	1.5	0.35	0.02	0.015	11	10.51	0.21
D1-08	TY PCU (RIGHT)	CL2551	280+20.00	-41.00	On Grade	1.57	1.59	0.02	D1-09	9.5	0.25	1.5	0.35	0.02	0.015	11	10.22	0.20
D1-09	TY PCU (RIGHT)	CL2551	277+70.00	-41.00	On Grade	1.57	1.59	0.02	D1-10	9.5	0.25	1.5	0.35	0.02	0.015	11	10.22	0.20
D1-10	TY PCU (RIGHT)	CL2551	275+15.00	-41.00	On Grade	1.59	1.61	0.03	D1-11	9.5	0.25	1.5	0.35	0.02	0.015	11	10.26	0.21
D1-11	TY PCU (RIGHT)	CL2551	272+40.00	-41.00	On Grade	1.76	1.80	0.04	D1-12	9.5	0.25	1.5	0.35	0.02	0.015	11	10.70	0.21
D1-12	TY PCU (RIGHT)	CL2551	268+40.00	-41.00	On Grade	2.31	2.64	0.33	D1-14	9.5	0.25	1.5	1.18	0.02	0.015	11	9.84	0.20
D1-14	TY PCU (RIGHT)	CL2551	265+80.00	-41.00	On Grade	1.84	1.92	0.09	D1-15	9.5	0.25	1.5	0.58	0.02	0.015	11	9.98	0.20
D1-15	TY PCU (RIGHT)	CL2551	263+60.00	-41.00	On Grade	1.63	1.69	0.06	D1-16	9.5	0.25	1.5	0.58	0.02	0.015	11	9.51	0.19
D2-01	TY PCU (RIGHT)	CL2551	257+20.00	-41.00	On Grade	2.04	2.17	0.13	D2-02	9.5	0.25	1.5	0.60	0.02	0.015	11	10.37	0.21
D2-02	TY PCU (RIGHT)	CL2551	254+30.00	-41.00	On Grade	2.10	2.24	0.14	D2-03	9.5	0.25	1.5	0.60	0.02	0.015	11	10.50	0.21
D2-03	TY PCU (RIGHT)	CL2551	251+30.00	-41.00	On Grade	2.17	2.32	0.15	D2-05	9.5	0.25	1.5	0.60	0.02	0.015	11	10.64	0.21
D2-05	TY PCU (RIGHT)	CL2551	248+60.00	-41.00	On Grade	1.73	1.80	0.07	D2-06	9.5	0.25	1.5	0.60	0.02	0.015	11	9.68	0.19
D2-06	TY PCU (RIGHT)	CL2551	245+50.00	-41.00	On Grade	1.79	1.83	0.04	D2-08	9.5	0.25	1.5	0.35	0.02	0.015	11	10.77	0.22
D2-08	TY PCU (RIGHT)	CL2551	243+00.00	-41.00	On Grade	1.61	1.64	0.03	D2-09	9.5	0.25	1.5	0.35	0.02	0.015	11	10.33	0.21
D2-09	TY PCU (RIGHT)	CL2551	240+30.00	-41.00	On Grade	1.64	1.67	0.03	D2-10	9.5	0.25	1.5	0.35	0.02	0.015	11	10.41	0.21
D2-10	TY PCU (RIGHT)	CL2551	237+60.00	-41.00	On Grade	1.64	1.67	0.03	D2-11	9.5	0.25	1.5	0.35	0.02	0.015	11	10.41	0.21
D2-11	TY PCU (RIGHT)	CL2551	234+90.00	-41.00	On Grade	1.64	1.67	0.03	D2-12	9.5	0.25	1.5	0.35	0.02	0.015	11	10.41	0.21
D2-12	TY PCU (RIGHT)	CL2551	232+20.00	-41.00	On Grade	1.65	1.70	0.05	F1-01	9.5	0.25	1.5	0.47	0.02	0.015	11	9.91	0.20
E1-01	TY PCU (LEFT)	CL2551	292+10.00	41.00	On Grade	1.48	1.49	0.02	E1-02	9.5	0.25	1.5	0.35	0.02	0.015	11	9.98	0.20
E1-02	TY PCU (LEFT)	CL2551	289+70.00	41.00	On Grade	1.42	1.44	0.02	E1-04	9.5	0.25	1.5	0.35	0.02	0.015	11	9.84	0.20
E1-04	TY PCU (LEFT)	CL2551	287+30.00	41.00	On Grade	1.51	1.53	0.02	E1-05	9.5	0.25	1.5	0.35	0.02	0.015	11	10.07	0.20
E1-05	TY PCU (LEFT)	CL2551	285+50.00	41.00	On Grade	1.49	1.51	0.02	E1-06	9.5	0.25	1.5	0.35	0.02	0.015	11	10.02	0.20
E1-06	TY PCU (LEFT)	CL2551	283+95.00	41.00	On Grade	1.70	1.74	0.04	E1-07	9.5	0.25	1.5	0.35	0.02	0.015	11	10.56	0.21
E1-07	TY PCU (LEFT)	CL2551	282+30.00	41.00	On Grade	1.57	1.60	0.02	E1-08	9.5	0.25	1.5	0.35	0.02	0.015	11	10.23	0.20
E1-08	TY PCU (LEFT)	CL2551	280+70.00	41.00	On Grade	1.51	1.53	0.02	E1-09	9.5	0.25	1.5	0.35	0.02	0.015	11	10.08	0.20
E1-09	TY PCU (LEFT)	CL2551	279+10.00	41.00	On Grade	1.50	1.52	0.02	E1-10	9.5	0.25	1.5	0.35	0.02	0.015	11	10.05	0.20
E1-10	TY PCU (LEFT)	CL2551	277+50.00	41.00	On Grade	1.53	1.55	0.02	E1-11	9.5	0.25	1.5	0.35	0.02	0.015	11	10.12	0.20



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ON-GRADE INLET GEOPAK DRAINAGE COMPUTATIONS

Table with 19 columns: INLET (ID, TYPE), REFERENCE CHAIN, STATION, OFFSET (+RT/-LT), PROFILE TYPE, CAPACITY (CFS), DISCHARGE (CFS), BY-PASS (CFS), BY-PASS TO, INLET LENGTH (FT), INLET DEPRESSION (FT), INLET DEPRESSION WIDTH (FT), LONGITUDINAL SLOPE (%), SPREAD SLOPE (FT/FT), SPREAD N, MAX ALLOWABLE PONDED WIDTH (FT), PONDED WIDTH (FT), PONDED DEPTH (FT). Rows include entries E1-11 through J1-11.

100% PLANS ADEQUATE
Not for construction, bidding, or permit purposes.
CP&Y
Engineer ANDREA KLOCINSKI
P.E. No. 121625 Date 8/16/2019

Table with 4 columns: NO., REVISION, BY, DATE. Contains one row with a revision.

CP&Y TEXAS REGISTERED ENGINEERING FIRM, F-1741
Texas Department of Transportation
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)
FM 2551 (MURPHY ROAD)
INLET COMPUTATIONS
Designed: CPY, 6, TEXAS, CSJ 2056-01-042, FM 2551
Checked: CPY, 18, COLLIN, 2056, 01, 042, 230

8/16/2019 9:24:44 AM oklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRcomp06.dgn

**ON-GRADE INLET GEOPAK DRAINAGE COMPUTATIONS**

INLET		REFERENCE CHAIN	STATION	OFFSET (+RT) (-LT)	PROFILE TYPE	CAPACITY	DISCHARGE	BY-PASS	BY-PASS TO	INLET LENGTH	INLET DEPRESSION	INLET DEPRESSION WIDTH	LONGITUDINAL SLOPE	SPREAD SLOPE	SPREAD N	MAX ALLOWABLE PONDED WIDTH	PONDED WIDTH	PONDED DEPTH
ID	TYPE			FT		CFS	CFS	CFS		FT	FT	FT	%	FT/FT		FT	FT	FT
J1-12	TY PCU (RIGHT)	CL2551	182+50.00	-41.00	On Grade	1.66	1.69	0.03	J1-13	9.5	0.25	1.5	0.35	0.02	0.015	11	10.44	0.21
J1-13	TY PCU (RIGHT)	CL2551	181+80.00	-41.00	On Grade	1.68	1.72	0.03	J1-14	9.5	0.25	1.5	0.35	0.02	0.015	11	10.51	0.21
J1-14	TY PCU (RIGHT)	CL2551	181+10.00	-41.00	On Grade	1.71	1.75	0.04	J1-15	9.5	0.25	1.5	0.35	0.02	0.015	11	10.59	0.21
J1-15	TY PCU (RIGHT)	CL2551	180+45.00	-41.00	On Grade	1.63	1.66	0.03	J1-16	9.5	0.25	1.5	0.35	0.02	0.015	11	10.37	0.21
J1-16	TY PCU (RIGHT)	CL2551	179+80.00	-41.00	On Grade	1.64	1.67	0.03	J1-17	9.5	0.25	1.5	0.35	0.02	0.015	11	10.41	0.21
J1-17	TY PCU (RIGHT)	CL2551	179+15.00	-41.00	On Grade	1.67	1.70	0.03	J1-18	9.5	0.25	1.5	0.35	0.02	0.015	11	10.47	0.21
J1-18	TY PCU (RIGHT)	CL2551	178+20.00	-41.00	On Grade	1.75	1.79	0.04	J1-19	9.5	0.25	1.5	0.35	0.02	0.015	11	10.67	0.21
J1-19	TY PCU (RIGHT)	CL2551	177+20.00	-41.00	On Grade	1.72	1.76	0.04	J1-20	9.5	0.25	1.5	0.35	0.02	0.015	11	10.60	0.21
J1-20	TY PCU (RIGHT)	CL2551	176+35.00	-41.00	On Grade	1.65	1.69	0.03	J1-21	9.5	0.25	1.5	0.35	0.02	0.015	11	10.44	0.21
J1-21	TY PCU (RIGHT)	CL2551	175+30.00	-41.00	On Grade	1.90	2.04	0.15	J1-23	9.5	0.25	1.5	0.90	0.02	0.015	11	9.40	0.19
J1-23	TY PCU (RIGHT)	CL2551	172+50.00	-41.00	On Grade	2.03	2.21	0.18	J1-24	9.5	0.25	1.5	0.90	0.02	0.015	11	9.67	0.19
J1-24	TY PCU (RIGHT)	CL2551	170+30.00	-41.00	On Grade	2.07	2.31	0.24		9.5	0.25	1.5	1.14	0.02	0.015	11	9.42	0.19

**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**INLET COMPUTATIONS**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:		DIST.	COUNTY	CONTROL NO. SECTION NO.	JOB NO. SHEET NO.
Checked:	18	COLLIN	2056	01 042	231

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**SAG INLET GEOPAK DRAINAGE COMPUTATIONS**

INLET ID	TYPE	PROFILE TYPE	REFERENCE CHAIN	STATION	OFFSET (+RT) (-LT) FT	CAPACITY CFS	DISCHARGE CFS	INLET CURB LENGTH FT	INLET GRATE LENGTH FT	INLET GRATE WIDTH FT	INLET GRATE AREA SF	INLET GRATE PERIMETER FT	MAX ALLOWABLE PONDED DEPTH FT	PONDED DEPTH FT	CURB INLETS AT SAGS	
															MAX ALLOWABLE PONDED WIDTH FT	PONDED WIDTH FT
A1-06	PSL-FG (3'X3')	Sag	CL2551	336+50.00	-55.00	6.91	2.63	n/a	3.17	3.17	4.54	12.67	0.50	0.26		
A1-13	TY PCU (BOTH)	Sag	CL2551	346+48.43	-41.00	13.58	0.91	14	n/a	n/a	n/a	n/a	0.50	0.08	11	6.39
A2-08	PSL-FG (3'X3')	Sag	CL2551	341+50.00	54.00	6.91	1.33	n/a	3.17	3.17	4.54	12.67	0.50	0.17		
A2-11	TY PCU (BOTH)	Sag	CL2551	346+48.43	53.00	13.58	3.54	14	n/a	n/a	n/a	n/a	0.50	0.20	11	10.64
A3-06	PSL-FG (3'X3')	Sag	CL2551	329+50.00	-55.00	6.91	2.50	n/a	3.17	3.17	4.54	12.67	0.50	0.25		
B1-03	TY PCU (BOTH)	Sag	CL2551	315+99.41	-41.00	13.58	2.28	14	n/a	n/a	n/a	n/a	0.50	0.15	11	9.01
B2-01	TY PCU (BOTH)	Sag	CL2551	307+89.38	-41.00	13.58	2.70	14	n/a	n/a	n/a	n/a	0.50	0.17	11	9.61
B2-02	PSL-FG (4'X4')	Sag	CL2551	307+70.00	-55.00	9.10	3.61	n/a	4.17	4.17	8.19	16.67	0.50	0.27		
B3-03	TY PCU (BOTH)	Sag	CL2551	315+99.41	41.00	13.58	2.20	14	n/a	n/a	n/a	n/a	0.50	0.15	11	8.89
B4-01	TY PCU (BOTH)	Sag	CL2551	307+89.38	41.00	13.58	2.73	14	n/a	n/a	n/a	n/a	0.50	0.17	11	9.64
B5-01	TY PCU (NONE)	Sag	CLLAKETRAV	9+19.98	-18.00	10.48	1.45	5	4.96	1.39	2.29	7.73	0.50	0.24	8	7.11
B6-01	TY PCU (NONE)	Sag	CLLAKETRAV	9+20.02	18.06	10.48	1.53	5	4.96	1.39	2.29	7.73	0.50	0.25	8	7.26
C1-03	PSL-FG (3'X3')	Sag	CL2551	299+45.00	-56.50	6.91	0.74	n/a	3.17	3.17	4.54	12.67	0.50	0.11		
C1-05	TY PCU (BOTH)	Sag	CL2551	296+92.31	-41.00	13.58	3.18	14	n/a	n/a	n/a	n/a	0.50	0.19	11	10.21
C2-05	PSL-FG (3'X3')	Sag	CL2551	296+92.31	52.50	6.91	0.56	n/a	3.17	3.17	4.54	12.67	0.50	0.09		
C2-06	TY PCU (BOTH)	Sag	CL2551	296+92.31	41.00	13.58	2.33	14	n/a	n/a	n/a	n/a	0.50	0.15	11	9.08
D1-02	PSL-FG (4'X4')	Sag	CL2551	292+75.00	-57.00	9.10	0.12	n/a	4.17	4.17	9.75	16.67	0.50	0.03		
D1-03	PSL-FG (4'X4')	Sag	CL2551	290+70.00	-51.50	9.10	0.19	n/a	4.17	4.17	8.19	16.67	0.50	0.04		
D1-13	PSL-FG (4'X4')	Sag	CL2551	264+40.00	-53.50	9.10	1.53	n/a	4.17	4.17	8.19	16.67	0.50	0.15		
D1-16	TY PCU (BOTH)	Sag	CL2551	262+08.82	-41.00	13.58	3.29	14	n/a	n/a	n/a	n/a	0.50	0.19	11	9.41
D2-04	PSL-FG (4'X4')	Sag	CL2551	250+55.00	-53.00	9.10	0.10	n/a	4.17	4.17	8.19	16.67	0.50	0.03		
D2-07	PSL-FG (4'X4')	Sag	CL2551	245+25.00	-53.50	9.10	0.22	n/a	4.17	4.17	8.19	16.67	0.50	0.04		
E1-03	PSL-FG (3'X3')	Sag	CL2551	287+70.00	51.00	6.91	3.11	n/a	3.17	3.17	4.54	12.67	0.50	0.29		
E1-16	CHI-02	Sag	CL2551	267+30.00	46.00	9.10	25.84	n/a	4.17	4.17	8.19	16.67	0.50	1.38		
E1-20	TY PCU (BOTH)	Sag	CL2551	262+08.82	41.00	13.58	3.55	14	n/a	n/a	n/a	n/a	0.50	0.20	11	9.68
E2-01	CHI-02	Sag	CL2551	257+55.00	46.00	9.10	30.68	n/a	4.17	4.17	8.19	16.67	0.50	1.94		
E2-03	CHI-02	Sag	CL2551	255+25.00	46.00	9.10	10.66	n/a	4.17	4.17	8.19	16.67	0.50	0.56		
E2-07	PSL-FG (3'X3')	Sag	CL2551	250+95.00	53.50	6.91	1.09	n/a	3.17	3.17	4.54	12.67	0.50	0.15		
E2-12	CHI-02	Sag	CL2551	245+28.00	46.00	9.10	37.98	n/a	4.17	4.17	8.19	16.67	0.50	2.98		
E2-14	CHI-02	Sag	CL2551	242+49.00	46.00	9.10	14.82	n/a	4.17	4.17	8.19	16.67	0.50	0.69		
E2-22	CHI-02	Sag	CL2551	234+15.00	46.00	9.10	20.93	n/a	4.17	4.17	8.19	16.67	0.50	0.90		
E3-02	PSL-FG (3'X3')	Sag	CL2551	231+20.00	55.50	6.91	6.07	n/a	3.17	3.17	4.54	12.67	0.50	0.46		
F1-02	TY PCU (BOTH)	Sag	CL2551	226+99.19	-41.00	13.58	2.85	14	n/a	n/a	n/a	n/a	0.50	0.18	11	9.32
F2-05	PSL-FG (4'X4')	Sag	CL2551	220+60.00	-54.00	9.10	4.66	n/a	4.17	4.17	8.19	16.67	0.50	0.32		
F3-03	TY PCU (BOTH)	Sag	CL2551	226+99.19	41.00	13.58	2.79	14	n/a	n/a	n/a	n/a	0.50	0.17	11	9.25
F4-07	PSL-FG (4'X4')	Sag	CL2551	220+60.00	54.00	9.10	8.59	n/a	4.17	4.17	8.19	16.67	0.50	0.48		
H1-04	PSL-FG (3'X3')	Sag	CL2551	189+20.00	56.00	6.91	2.73	n/a	3.17	3.17	4.54	12.67	0.50	0.27		
H1-07	PSL-FG (3'X3')	Sag	CL2551	185+50.00	55.50	6.91	0.59	n/a	3.17	3.17	4.54	12.67	0.50	0.10		
H1-12	PSL-FG (3'X3')	Sag	CL2551	174+10.00	55.00	6.91	0.38	n/a	3.17	3.17	4.54	12.67	0.50	0.07		
J1-04	PSL-FG (4'X4')	Sag	CL2551	189+00.00	-55.00	9.10	20.82	n/a	4.17	4.17	8.19	16.67	0.50	0.89		
J1-22	PSL-FG (3'X3')	Sag	CL2551	173+10.00	-54.00	6.91	3.26	n/a	3.17	3.17	4.54	12.67	0.50	0.30		

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**INLET COMPUTATIONS**

Designed: CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	18	COLLIN	2056 01	042
				SHEET NO. 232

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STORM SEWER GEOPAK DRAINAGE COMPUTATIONS

LINE	UPSTREAM NODE	DOWNSTREAM NODE	RISE	SPAN	N VALUE	DISCHARGE	CAPACITY	LENGTH	SLOPE	UNIFORM VELOCITY	UNIFORM DEPTH	ACTUAL VELOCITY	ACTUAL DEPTH UPSTREAM	ACTUAL DEPTH DOWN-STREAM	INVERT UPSTREAM	INVERT DOWN-STREAM	HGL UPSTREAM	HGL DOWN-STREAM
ID	ID	ID	FT	FT		CFS	CFS	FT	%	FT/S	FT	FT/S	FT	FT	FT	FT	FT	FT
LINE A1	A1-01	PB-A1-01	2	n/a	0.012	1.24	22.84	4.91	0.75	3.70	0.33	1.74	0.56	0.56	641.60	641.55	642.16	642.11
LINE A1	PB-A1-01	PB-A1-02	2	n/a	0.012	1.24	14.44	200.00	0.30	2.68	0.41	0.93	0.56	0.89	641.55	640.95	642.11	641.84
LINE A1	PB-A1-02	MH-A1-01	2	n/a	0.012	2.42	11.85	7.39	0.20	2.77	0.65	2.08	0.89	0.80	640.95	640.93	641.84	641.72
LINE A1	MH-A1-01	PB-A1-03	3	5	0.012	57.16	122.41	224.61	0.29	6.84	1.67	5.46	1.82	2.09	639.90	639.23	641.72	641.32
LINE A1	PB-A1-03	PB-A1-05	3	5	0.012	57.36	123.49	79.31	0.30	6.87	1.67	5.02	2.09	2.28	639.23	638.99	641.32	641.28
LINE A1	PB-A1-05	PB-A1-07	3	5	0.012	63.67	113.77	18.84	0.25	6.53	1.95	6.04	2.28	2.11	638.99	638.94	641.28	641.05
LINE A1	PB-A1-07	MH-A1-02	3	5	0.012	65.72	108.30	45.39	0.23	6.44	2.04	6.48	2.11	2.03	638.94	638.83	641.05	640.86
LINE A1	MH-A1-02	PB-A1-08	3	5	0.012	65.72	109.37	58.45	0.24	6.44	2.04	6.38	2.05	2.06	638.81	638.66	640.86	640.72
LINE A1	PB-A1-08	PB-A1-10	3	5	0.012	66.26	112.88	23.13	0.25	6.64	2.00	6.47	2.06	2.05	638.66	638.60	640.72	640.65
LINE A1	PB-A1-10	PB-A1-11	3	5	0.012	67.28	112.85	136.87	0.25	6.59	2.04	6.84	2.05	1.97	638.60	638.26	640.65	640.23
LINE A1	PB-A1-11	MH-A1-03	3	5	0.012	67.74	121.79	140.58	0.29	7.12	1.90	6.64	1.97	2.04	638.26	637.84	640.23	639.88
LINE A1	MH-A1-03	PB-A1-12	3	5	0.012	67.74	115.90	27.40	0.26	6.79	2.00	6.73	2.07	2.01	637.82	637.73	639.88	639.74
LINE A1	PB-A1-12	PB-A1-13	3	5	0.012	68.06	123.54	196.47	0.30	7.15	1.90	5.94	2.01	2.29	637.73	637.14	639.74	639.43
LINE A1	PB-A1-13	MH-A1-04	3	5	0.012	68.25	121.80	135.09	0.29	7.00	1.95	5.29	2.29	2.58	637.14	636.74	639.43	639.32
LINE A1	MH-A1-04	PB-A1-14	3	5	0.012	68.25	121.15	101.96	0.29	7.00	1.95	4.86	2.60	2.81	636.71	636.41	639.32	639.21
LINE A1	PB-A1-14	PB-A1-15	3	5	0.012	69.38	123.62	101.42	0.30	7.12	1.95	6.96	2.81	1.99	636.41	636.10	639.21	638.10
LINE A1	PB-A1-15	PB-A1-16	3	5	0.012	70.07	123.59	51.57	0.30	7.19	1.95	7.02	1.99	2.00	636.10	635.95	638.10	637.94
LINE A1	PB-A1-16	OUTLET A1	3	5	0.012	71.07	123.48	74.33	0.30	7.29	1.95	7.70	2.00	1.85	635.95	635.72	637.94	637.57
LAT A1-02	A1-02	PB-A1-02	2	n/a	0.012	1.31	22.84	4.91	0.75	3.73	0.34	0.97	0.85	0.89	641.00	640.95	641.85	641.84
LAT A1-03	A1-03	MH-A1-01	3	5	0.012	55.12	120.12	10.32	0.28	6.60	1.67	6.09	2.63	1.81	639.97	639.92	642.60	641.72
LAT A1-04	A1-04	PB-A1-03	2	n/a	0.012	1.46	22.84	4.91	0.75	3.86	0.36	0.54	1.55	1.59	639.78	639.73	641.33	641.32
LAT A1-05	A1-05	PB-A1-04	2.5	n/a	0.012	6.83	23.94	6.47	0.25	3.97	0.95	1.47	2.27	2.26	639.06	639.04	641.33	641.29
LAT A1-05	PB-A1-04	PB-A1-05	2.5	n/a	0.012	6.83	26.18	15.00	0.30	4.30	0.90	1.45	2.26	2.28	639.04	638.99	641.29	641.28
LAT A1-06	A1-06	PB-A1-06	2.5	n/a	0.012	2.63	24.16	7.89	0.26	3.07	0.58	0.64	1.94	1.96	639.12	639.09	641.06	641.05
LAT A1-06	PB-A1-06	PB-A1-07	2.5	n/a	0.012	2.63	47.79	15.00	1.00	4.97	0.41	0.60	1.96	2.11	639.09	638.94	641.05	641.05
LAT A1-07	A1-07	PB-A1-08	2	n/a	0.012	1.40	22.84	4.91	0.75	3.82	0.35	0.53	1.51	1.56	639.21	639.16	640.73	640.72
LAT A1-08	A1-08	PB-A1-09	2	n/a	0.012	1.41	15.28	8.61	0.34	2.89	0.43	0.56	1.46	1.49	639.20	639.16	640.66	640.65
LAT A1-08	PB-A1-09	PB-A1-10	2	n/a	0.012	1.41	16.67	15.00	0.40	3.08	0.41	0.54	1.49	1.55	639.16	639.10	640.65	640.65
LAT A1-09	A1-09	PB-A1-11	2	n/a	0.012	1.46	22.84	4.91	0.75	3.85	0.36	0.59	1.42	1.47	638.81	638.76	640.24	640.23
LAT A1-10	A1-10	PB-A1-12	2	n/a	0.012	1.48	22.85	4.90	0.75	3.88	0.36	0.58	1.47	1.51	638.28	638.23	639.75	639.74
LAT A1-11	A1-11	PB-A1-13	2	n/a	0.012	1.43	22.84	4.91	0.75	3.83	0.35	0.48	1.74	1.79	637.69	637.64	639.44	639.43
LAT A1-12	A1-12	PB-A1-14	3	n/a	0.012	1.46	67.33	4.91	0.75	3.68	0.32	0.21	2.76	2.81	636.46	636.41	639.22	639.21
LAT A1-13	A1-13	PB-A1-15	2	n/a	0.012	0.88	22.84	4.91	0.75	3.32	0.28	0.35	1.45	1.49	636.65	636.60	638.10	638.10
LAT A1-14	A1-14	PB-A1-16	2	n/a	0.012	1.30	22.84	4.91	0.75	3.74	0.34	0.52	1.45	1.50	636.50	636.45	637.95	637.94
LINE A2	A2-01	PB-A2-01	2	n/a	0.012	1.56	22.84	4.91	0.75	3.95	0.37	3.69	0.58	0.38	643.74	643.69	644.32	644.08
LINE A2	PB-A2-01	MH-A2-01	2	n/a	0.012	1.56	15.54	245.55	0.35	3.01	0.44	1.09	0.53	0.93	643.69	642.83	644.22	643.76
LINE A2	MH-A2-01	MH-A2-02	2	n/a	0.012	2.91	15.41	237.33	0.34	3.59	0.61	1.82	0.94	1.01	642.82	641.99	643.76	643.00
LINE A2	PB-A2-02	PB-A2-02	3	5	0.012	59.91	100.48	15.12	0.20	5.87	2.04	6.19	2.03	1.94	640.97	640.93	643.00	642.86
LINE A2	PB-A2-02	PB-A2-03	3	5	0.012	61.07	112.72	240.00	0.25	6.58	1.86	6.41	1.94	1.91	640.93	640.33	642.86	642.23
LINE A2	PB-A2-03	MH-A2-03	3	5	0.012	61.08	111.64	203.55	0.25	6.42	1.90	6.33	1.91	1.93	640.33	639.82	642.23	641.75
LINE A2	MH-A2-03	PB-A2-04	3	5	0.012	61.08	107.76	38.45	0.23	6.27	1.95	6.26	1.95	1.95	639.80	639.70	641.75	641.65
LINE A2	PB-A2-04	PB-A2-05	3	5	0.012	62.21	112.72	250.00	0.25	6.54	1.90	6.62	1.95	1.88	639.70	639.08	641.65	640.96
LINE A2	PB-A2-05	MH-A2-04	3	5	0.012	63.34	122.12	173.55	0.29	7.00	1.81	6.78	1.88	1.87	639.08	638.56	640.96	640.43
LINE A2	MH-A2-04	PB-A2-06	3	5	0.012	63.34	120.07	68.97	0.28	6.82	1.86	6.51	1.89	1.95	638.53	638.33	640.43	640.27
LINE A2	PB-A2-06	PB-A2-07	3	5	0.012	64.47	123.54	149.51	0.30	7.12	1.81	6.61	1.95	1.95	638.33	637.88	640.27	639.83
LINE A2	PB-A2-07	PB-A2-09	3	5	0.012	65.47	123.58	87.51	0.30	7.05	1.86	6.70	1.95	1.95	637.88	637.61	639.83	639.57
LINE A2	PB-A2-09	MH-A2-05	3	5	0.012	66.54	121.15	153.55	0.29	6.99	1.90	6.99	1.95	1.90	637.61	637.16	639.57	639.06
LINE A2	MH-A2-05	PB-A2-10	3	5	0.012	66.54	119.60	57.12	0.28	6.99	1.90	6.80	1.93	1.96	637.13	636.96	639.06	638.91
LINE A2	PB-A2-10	PB-A2-11	3	5	0.012	67.66	123.55	192.10	0.30	7.11	1.90	6.43	1.96	2.10	636.96	636.38	638.91	638.48
LINE A2	PB-A2-11	PB-A2-12	3	5	0.012	67.66	123.94	18.86	0.30	7.11	1.90	6.50	2.10	2.08	636.38	636.32	638.48	638.40
LINE A2	PB-A2-12	OUTLET A2	3	5	0.012	70.36	123.49	139.97	0.30	7.22	1.95	7.68	2.08	1.83	636.32	635.90	638.40	637.73
LINE A3	A3-01	PB-A3-01	3	n/a	0.012	17.48	37.68	6.08	0.24	4.96	1.50	3.24	2.29	2.14	643.05	643.03	645.34	645.17
LINE A3	PB-A3-01	PB-A3-02	3	n/a	0.012	17.48	42.59	49.62	0.30	5.37	1.41	3.15	2.14	2.20	643.03	642.88	645.17	645.08
LINE A3	PB-A3-02	PB-A3-03	3	n/a	0.012	17.48	42.60	105.53	0.30	5.37	1.41	3.14	2.20	2.20	642.88	642.56	645.08	644.76
LINE A3	PB-A3-03	MH-A3-01	3	n/a	0.012	18.50	42.31	186.52	0.30	5.46	1.45	2.80	2.20	2.65	642.56	642.00	644.76	644.65
LINE A3	MH-A3-01	PB-A3-04	3	3	0.012	36.70	58.91	48.48	0.29	5.99	2.04	5.37	2.66	2.28	641.99	641.84	644.65	644.12
LINE A3	PB-A3-04	PB-A3-05	3	3	0.012	37.69	55.04	230.00	0.25	5.64	2.23	5.61	2.28	2.24	641.84	641.27	644.12	643.51
LINE A3	PB-A3-05	MH-A3-02	3	3	0.012	39.94	53.97	48.66	0.24	5.74	2.32	6.78	2.24	1.96	641.27	641.14	643.51	643.11
LINE A3	MH-A3-02	MH-A2-02	3	5	0.012	57.84	107.40	64.00	0.23	6.23	1.86	5.72	1.97	2.02	641.14	640.98	643.11	643.00
LAT A2-02	A2-02	MH-A2-01	2	n/a	0.012	1.51	16.32	2.25	0.38	3.09	0.43	2.99	0.57	0.44	643.35	643.32	643.92	643.76
LAT A2-03	A2-03	PB-A2-02	2	n/a	0.012	1.61	22.84	4.91	0.75	3.99	0.37	0.67	1.39	1.44	641.48	641.43	642.87	642.86
LAT A2-04	A2-04	PB-A2-03	2	n/a	0.012	1.42	22.84	4.91	0.75	3.84	0.35	0.60	1.36	1.41	640.88	640.83	642.24	642.23
LAT A2-05	A2-05	PB-A2-04	2	n/a	0.012	1.47	22.84	4.91	0.75	3.87	0.36	0.60	1.41	1.45	640.25	640.20	641.66	641.65
LAT A2-06	A2-06	PB-A2-05	2	n/a	0.012	1.47	22.84	4.91	0.75	3.87	0.36	0.64	1.34	1.38	639.63	639.58	640.96	640.96

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**STORM SEWER GEOPAK DRAINAGE COMPUTATIONS**

LINE	UPSTREAM NODE	DOWNSTREAM NODE	RISE	SPAN	N VALUE	DISCHARGE	CAPACITY	LENGTH	SLOPE	UNIFORM VELOCITY	UNIFORM DEPTH	ACTUAL VELOCITY	ACTUAL DEPTH UPSTREAM	ACTUAL DEPTH DOWN-STREAM	INVERT UPSTREAM	INVERT DOWN-STREAM	HGL UPSTREAM	HGL DOWN-STREAM
ID	ID	ID	FT	FT		CFS	CFS	FT	%	FT/S	FT	FT/S	FT	FT	FT	FT	FT	FT
LAT A2-07	A2-07	PB-A2-06	2	n/a	0.012	1.47	22.83	4.91	0.75	3.87	0.36	0.61	1.40	1.45	638.88	638.83	640.28	640.27
LAT A2-08	A2-08	PB-A2-08	2	n/a	0.012	1.31	13.64	10.45	0.27	2.62	0.43	0.42	1.89	1.92	637.94	637.91	639.83	639.83
LAT A2-08	PB-A2-08	PB-A2-07	2	n/a	0.012	1.31	14.44	10.00	0.30	2.69	0.43	0.42	1.92	1.95	637.91	637.88	639.83	639.83
LAT A2-09	A2-09	PB-A2-09	2	n/a	0.012	1.40	73.45	4.91	7.76	8.68	0.20	0.57	0.94	1.45	638.63	638.11	639.57	639.57
LAT A2-10	A2-10	PB-A2-10	2	n/a	0.012	1.47	23.52	6.54	0.80	3.97	0.35	0.60	1.40	1.46	637.52	637.46	638.92	638.91
LAT A2-11	A2-11	PB-A2-12	2	n/a	0.012	3.53	15.36	54.53	0.34	3.78	0.67	1.32	1.43	1.58	637.01	636.82	638.45	638.40
LAT A3-02	A3-02	PB-A3-03	2.5	n/a	0.012	1.58	40.65	4.33	0.72	3.80	0.35	0.44	1.66	1.70	643.11	643.06	644.77	644.76
LAT A3-03	A3-03	MH-A3-01	3	3	0.012	19.17	68.56	12.78	0.39	5.74	1.11	2.41	2.69	2.66	642.06	641.99	644.75	644.65
LAT A3-04	A3-04	PB-A3-04	2.5	n/a	0.012	1.44	40.65	4.33	0.72	3.71	0.33	0.39	1.74	1.78	642.39	642.34	644.12	644.12
LAT A3-05	A3-06	A3-05	2	n/a	0.012	2.50	14.09	11.25	0.29	3.20	0.59	0.87	1.70	1.73	641.83	641.79	643.53	643.52
LAT A3-05	A3-05	PB-A3-05	2	n/a	0.012	3.82	13.52	4.33	0.26	3.47	0.76	1.32	1.74	1.74	641.78	641.77	643.52	643.51
LAT A3-07	A3-07	MH-A3-02	2.5	n/a	0.012	19.26	22.77	42.65	0.23	4.80	1.91	4.64	2.30	1.97	641.24	641.14	643.54	643.11
LINE B1	B1-01A	PB-B1-01A	2	n/a	0.012	12.71	45.66	10.00	3.00	11.81	0.75	8.28	2.00	0.98	644.14	643.84	646.14	644.83
LINE B1	PB-B1-01A	PB-B1-01B	2	n/a	0.012	12.71	45.66	9.90	3.00	11.81	0.75	8.27	1.50	0.98	643.84	643.55	645.35	644.53
LINE B1	PB-B1-01B	JB-B1-01	2	n/a	0.012	12.71	45.66	10.50	3.00	11.81	0.75	8.33	1.50	0.98	643.55	643.23	645.05	644.21
LINE B1	JB-B1-01	PB-B1-01	2	3	0.012	12.71	34.26	15.17	0.27	4.42	0.96	3.05	1.59	1.39	643.23	643.18	644.81	644.57
LINE B1	PB-B1-01	MH-B1-01	2	3	0.012	14.10	36.03	150.83	0.30	4.75	0.99	2.78	1.39	1.69	643.18	642.73	644.57	644.41
LINE B1	MH-B1-01	PB-B1-02	2	3	0.012	18.24	35.54	45.17	0.29	5.04	1.21	3.92	1.70	1.55	642.71	642.58	644.41	644.13
LINE B1	PB-B1-02	JB-B1-02	2	3	0.012	19.28	35.32	33.46	0.28	5.07	1.27	4.16	1.55	1.55	642.58	642.48	644.13	644.02
LINE B1	JB-B1-02	JB-B1-03	2	3	0.012	20.38	34.21	31.55	0.27	5.11	1.33	4.43	1.56	1.53	642.47	642.37	644.02	643.90
LINE B1	JB-B1-03	PB-B1-03	2	3	0.012	21.54	35.81	77.58	0.29	5.28	1.36	4.55	1.54	1.58	642.36	642.13	643.90	643.70
LINE B1	PB-B1-03	MH-B1-02	2	3	0.012	23.17	34.96	25.24	0.28	5.31	1.45	5.35	1.58	1.44	642.13	642.05	643.70	643.49
LINE B1	MH-B1-02	PB-B1-04	2	3	0.012	23.17	35.92	100.17	0.29	5.43	1.42	5.02	1.46	1.54	642.04	641.74	643.49	643.27
LINE B1	PB-B1-04	PB-B1-05	2	3	0.012	24.10	36.26	228.51	0.30	5.53	1.45	5.02	1.54	1.60	641.74	641.05	643.27	642.65
LINE B1	PB-B1-05	OUTLET B1	2	3	0.012	24.10	36.25	30.00	0.30	5.53	1.45	6.37	1.60	1.26	641.05	640.96	642.65	642.22
LAT B1-01	B1-01	PB-B1-01	2	n/a	0.012	1.73	22.42	4.33	0.72	4.04	0.39	0.74	1.36	1.39	643.22	643.18	644.58	644.57
LAT B1-02A	B1-02A	PB-B1-02A	2	n/a	0.012	4.46	45.66	18.00	3.00	8.77	0.44	7.32	1.03	0.50	643.87	643.33	644.91	643.83
LAT B1-02A	PB-B1-02A	PB-B1-02B	2	n/a	0.012	4.46	45.66	9.90	3.00	8.77	0.44	1.92	1.09	1.39	643.33	643.04	644.42	644.42
LAT B1-02A	PB-B1-02B	MH-B1-01	2	n/a	0.012	4.46	45.66	10.50	3.00	8.77	0.44	1.57	1.39	1.69	643.04	642.72	644.42	644.41
LAT B1-02	B1-02	PB-B1-02	2	n/a	0.012	1.39	22.42	4.33	0.72	3.77	0.35	0.53	1.51	1.55	642.62	642.58	644.13	644.13
LAT B5-01	B5-01	JB-B1-02	2	n/a	0.012	1.45	17.67	40.00	0.45	3.24	0.40	0.55	1.36	1.55	642.67	642.47	644.03	644.02
LAT B6-01	B6-01	JB-B1-03	2	n/a	0.012	1.53	17.67	40.00	0.45	3.29	0.41	0.59	1.35	1.54	642.56	642.36	643.91	643.90
LAT B1-03	B1-03	PB-B1-03	2	n/a	0.012	2.23	22.17	4.33	0.71	4.30	0.44	0.84	1.55	1.58	642.17	642.13	643.72	643.70
LAT B1-04	B1-04	PB-B1-04	2	n/a	0.012	1.53	22.42	4.33	0.72	3.89	0.37	0.59	1.50	1.54	641.78	641.74	643.28	643.27
LINE B2	B2-02	JB-B2-01	2	n/a	0.012	3.61	24.03	15.50	0.83	5.24	0.54	1.75	1.15	1.25	643.24	643.08	644.39	644.33
LINE B2	JB-B2-01	PB-B2-01	2	n/a	0.012	3.61	14.92	19.54	0.32	3.71	0.70	1.76	1.25	1.25	643.08	643.01	644.33	644.25
LINE B2	PB-B2-01	MH-B2-01	2	n/a	0.012	5.81	15.48	126.45	0.34	4.36	0.88	3.05	1.25	1.17	643.01	642.57	644.25	643.73
LINE B2	MH-B2-01	PB-B2-02	2	n/a	0.012	7.16	15.54	279.50	0.35	4.58	1.00	2.98	1.18	1.43	642.55	641.57	643.73	643.00
LINE B2	PB-B2-02	OUTLET B2	2	n/a	0.012	7.16	15.67	15.00	0.35	4.58	1.00	4.87	1.43	0.95	641.57	641.52	643.00	642.47
LAT B2-01	B2-01	PB-B2-01	2	n/a	0.012	2.67	22.16	4.33	0.71	4.52	0.49	1.30	1.23	1.25	643.05	643.01	644.28	644.25
LAT B2-03	B2-03	MH-B2-01	2	n/a	0.012	1.76	15.08	1.75	0.33	3.07	0.48	0.92	1.17	1.17	642.58	642.56	643.75	643.73
LINE B3	B3-01	PB-B3-01	2	n/a	0.012	1.64	22.42	4.33	0.72	3.95	0.38	2.35	0.60	0.55	643.92	643.87	644.52	644.42
LINE B3	PB-B3-01	MH-B3-01	2	n/a	0.012	1.64	15.53	225.83	0.35	3.05	0.45	1.22	0.55	0.89	643.87	643.08	644.42	643.97
LINE B3	MH-B3-01	PB-B3-02	2	n/a	0.012	2.85	15.51	160.76	0.35	3.59	0.60	1.40	0.90	1.24	643.07	642.50	643.97	643.74
LINE B3	PB-B3-02	MH-B3-02	2	n/a	0.012	4.78	15.52	185.24	0.35	4.13	0.79	2.85	1.24	1.05	642.50	641.86	643.74	642.91
LINE B3	MH-B3-02	PB-B3-03	2	n/a	0.012	5.73	15.52	179.27	0.35	4.31	0.88	3.72	1.07	0.99	641.84	641.21	642.91	642.20
LINE B3	PB-B3-03	OUTLET B3	2	n/a	0.012	5.73	15.66	15.00	0.35	4.40	0.87	4.54	0.99	0.85	641.21	641.16	642.20	642.01
LAT B3-02	B3-02	MH-B3-01	2	n/a	0.012	1.36	15.08	1.75	0.33	2.86	0.42	1.00	0.90	0.90	643.09	643.07	643.99	643.97
LAT B3-03	B3-03	PB-B3-02	2	n/a	0.012	2.17	22.42	4.33	0.72	4.28	0.44	1.06	1.21	1.24	642.55	642.50	643.76	643.74
LAT B3-05	B3-05	MH-B3-02	2	n/a	0.012	1.20	15.08	1.75	0.33	2.73	0.40	0.71	1.05	1.06	641.87	641.85	642.92	642.91
LINE B4	B4-01	PB-B4-01	2	n/a	0.012	2.70	22.42	4.33	0.72	4.56	0.49	2.69	0.79	0.71	642.69	642.65	643.49	643.36
LINE B4	PB-B4-01	PB-B4-02	2	n/a	0.012	2.70	15.61	150.62	0.35	3.52	0.59	1.56	0.71	1.08	642.65	642.12	643.36	643.20
LINE B4	PB-B4-02	MH-B4-01	2	n/a	0.012	4.17	14.77	15.83	0.31	3.83	0.76	4.07	1.08	0.72	642.12	642.06	643.20	642.79
LINE B4	MH-B4-01	PB-B4-03	2	n/a	0.012	4.17	15.51	239.50	0.35	3.99	0.73	2.46	0.74	1.06	642.05	641.21	642.79	642.27
LINE B4	PB-B4-03	OUTLET B4	2	n/a	0.012	4.17	15.67	15.00	0.35	3.99	0.73	4.12	1.06	0.72	641.21	641.16	642.27	641.88
LAT B4-03	B4-03	PB-B4-02	2	n/a	0.012	1.59	22.42	4.33	0.72	3.90	0.37	0.91	1.05	1.08	642.16	642.12	643.22	643.20

**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.



Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741



FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
**FM 2551 (MURPHY ROAD)**

**STORM SEWER COMPUTATIONS**

Designed: CPY	FED. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	18	COLLIN	2056 01	042
				SHEET NO. 234

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STORM SEWER GEOPAK DRAINAGE COMPUTATIONS

LINE	UPSTREAM NODE	DOWNSTREAM NODE	RISE	SPAN	N VALUE	DISCHARGE	CAPACITY	LENGTH	SLOPE	UNIFORM VELOCITY	UNIFORM DEPTH	ACTUAL VELOCITY	ACTUAL DEPTH UPSTREAM	ACTUAL DEPTH DOWN-STREAM	INVERT UPSTREAM	INVERT DOWN-STREAM	HGL UPSTREAM	HGL DOWN-STREAM
ID	ID	ID	FT	FT		CFS	CFS	FT	%	FT/S	FT	FT/S	FT	FT	FT	FT	FT	FT
LINE C1	C1-01	PB-C1-01	2	n/a	0.012	1.64	22.42	4.33	0.72	3.96	0.38	1.27	0.84	0.86	642.32	642.27	643.16	643.13
LINE C1	PB-C1-01	PB-C1-02	2	n/a	0.012	1.64	15.60	260.00	0.35	3.06	0.45	0.56	0.86	1.75	642.27	641.36	643.13	643.11
LINE C1	PB-C1-02	MH-C1-01	2	n/a	0.012	3.05	14.90	20.83	0.32	3.53	0.64	1.03	1.75	1.78	641.36	641.29	643.11	643.07
LINE C1	MH-C1-01	PB-C1-03	2.5	n/a	0.012	3.73	28.11	154.16	0.35	3.75	0.64	0.98	1.80	1.81	641.28	640.74	643.07	642.55
LINE C1	PB-C1-03	MH-C1-02	2.5	n/a	0.012	5.10	28.01	93.52	0.34	4.11	0.75	1.16	1.81	2.10	640.74	640.41	642.55	642.51
LINE C1	MH-C1-02	MH-C2-02	2.5	n/a	0.012	7.88	27.50	67.00	0.33	4.58	0.95	1.71	2.11	2.22	640.40	640.17	642.51	642.38
LINE C2	C2-01	PB-C2-01	2	n/a	0.012	1.70	22.42	4.33	0.72	3.99	0.39	2.36	0.62	0.56	642.09	642.05	642.71	642.61
LINE C2	PB-C2-01	PB-C2-02	2	n/a	0.012	1.70	15.60	240.00	0.35	3.10	0.46	0.81	0.56	1.27	642.05	641.21	642.61	642.48
LINE C2	PB-C2-02	MH-C2-01	2	n/a	0.012	2.96	15.07	25.83	0.33	3.54	0.62	1.37	1.27	1.30	641.21	641.12	642.48	642.41
LINE C2	MH-C2-01	PB-C2-03	2.5	n/a	0.012	2.96	28.10	161.17	0.35	3.53	0.57	0.75	1.31	1.87	641.10	640.54	642.41	642.41
LINE C2	PB-C2-03	MH-C2-02	2.5	n/a	0.012	3.97	28.03	103.52	0.34	3.84	0.66	0.87	1.87	2.21	640.54	640.17	642.41	642.38
LINE C2	MH-C2-02	PB-C2-04	2.5	n/a	0.012	14.27	27.45	32.27	0.33	5.33	1.34	4.48	2.22	1.54	640.16	640.05	642.38	641.59
LINE C2	PB-C2-04	PB-C2-05	2.5	n/a	0.012	14.27	28.28	50.00	0.35	5.43	1.32	4.65	1.54	1.50	640.05	639.87	641.59	641.37
LINE C2	PB-C2-05	OUTLET C	2.5	n/a	0.012	14.27	28.29	60.50	0.35	5.43	1.32	5.68	1.50	1.27	639.87	639.66	641.37	640.93
LAT C1-02	C1-02	PB-C1-02	2	n/a	0.012	1.58	22.42	4.33	0.72	3.89	0.37	0.54	1.71	1.75	641.41	641.36	643.12	643.11
LAT C1-03	C1-03	MH-C1-01	2	n/a	0.012	0.74	24.07	17.50	0.83	3.28	0.25	0.25	1.62	1.79	641.46	641.28	643.07	643.07
LAT C1-04	C1-04	PB-C1-03	2	n/a	0.012	1.60	22.42	4.33	0.72	3.94	0.37	0.53	1.77	1.81	640.78	640.74	642.56	642.55
LAT C1-05	C1-05	MH-C1-02	2.5	n/a	0.012	3.14	27.34	1.75	0.33	3.51	0.60	0.71	2.10	2.11	640.42	640.40	642.52	642.51
LAT C2-02	C2-02	PB-C2-02	2	n/a	0.012	1.41	22.42	4.33	0.72	3.80	0.35	0.67	1.23	1.27	641.25	641.21	642.48	642.48
LAT C2-04	C2-04	PB-C2-03	2.5	n/a	0.012	1.21	40.65	4.33	0.72	3.51	0.31	0.31	1.83	1.87	640.58	640.54	642.41	642.41
LAT C2-05	C2-05	C2-06	2.5	n/a	0.012	0.56	41.81	8.75	0.77	2.85	0.21	0.12	2.08	2.17	640.30	640.22	642.39	642.39
LAT C2-05	C2-06	MH-C2-02	2.5	n/a	0.012	2.87	27.34	1.75	0.33	3.42	0.57	0.62	2.20	2.22	640.19	640.17	642.39	642.38
LINE D	D1-01	PB-D1-01	2	n/a	0.012	0.78	22.61	4.91	0.74	3.19	0.26	3.07	0.41	0.27	639.07	639.02	639.48	639.29
LINE D	PB-D1-01	PB-D1-02	2	n/a	0.012	0.78	15.65	25.25	0.35	2.44	0.32	1.82	0.38	0.39	639.02	638.93	639.40	639.32
LINE D	PB-D1-02	MH-D1-01	2	n/a	0.012	0.89	15.52	190.74	0.35	2.53	0.34	0.70	0.39	0.84	638.93	638.26	639.32	639.11
LINE D	MH-D1-01	PB-D1-03	2	n/a	0.012	1.02	15.25	40.45	0.33	2.63	0.36	0.66	0.86	0.99	638.25	638.11	639.11	639.10
LINE D	PB-D1-03	MH-D1-02	2	n/a	0.012	2.45	15.54	255.09	0.35	3.42	0.56	1.63	0.99	0.96	638.11	637.22	639.10	638.18
LINE D	MH-D1-02	MH-D1-03	2	n/a	0.012	3.69	18.49	241.00	0.49	4.34	0.63	4.34	0.98	0.63	637.20	635.99	638.18	636.62
LINE D	MH-D1-03	PB-D1-04	2	n/a	0.012	4.91	18.57	250.45	0.50	4.70	0.73	4.70	1.06	0.73	635.97	634.72	637.03	635.45
LINE D	PB-D1-04	MH-D1-04	2	n/a	0.012	6.19	18.21	40.55	0.48	4.97	0.84	4.96	1.18	0.84	634.72	634.51	635.89	635.35
LINE D	MH-D1-04	PB-D1-05	2	n/a	0.012	6.19	18.56	210.23	0.50	5.03	0.83	5.03	0.88	0.83	634.49	633.44	635.37	634.27
LINE D	PB-D1-05	MH-D1-05	2	n/a	0.012	7.29	18.43	85.55	0.49	5.25	0.91	5.24	1.20	0.91	633.44	633.01	634.64	633.92
LINE D	MH-D1-05	PB-D1-06	2	n/a	0.012	7.29	18.53	160.45	0.49	5.25	0.91	5.25	0.96	0.91	632.99	632.19	633.95	633.10
LINE D	PB-D1-06	MH-D1-06	2	n/a	0.012	8.37	18.51	135.55	0.49	5.45	0.98	5.45	1.25	0.98	632.19	631.51	633.45	632.50
LINE D	MH-D1-06	PB-D1-07	2	n/a	0.012	8.37	18.49	115.45	0.49	5.45	0.98	5.43	1.03	0.98	631.49	630.92	632.52	631.90
LINE D	PB-D1-07	MH-D1-07	2	n/a	0.012	9.41	18.54	180.55	0.49	5.59	1.06	5.59	1.31	1.06	630.92	630.01	632.22	631.07
LINE D	MH-D1-07	PB-D1-08	2	n/a	0.012	9.41	18.45	90.44	0.49	5.59	1.06	5.58	1.10	1.06	629.99	629.54	631.09	630.60
LINE D	PB-D1-08	MH-D1-08	2	n/a	0.012	10.54	18.55	205.55	0.50	5.76	1.13	5.76	1.38	1.13	629.54	628.51	630.92	629.64
LINE D	MH-D1-08	PB-D1-09	2	n/a	0.012	10.54	18.55	190.45	0.50	5.76	1.13	5.76	1.16	1.13	628.49	627.54	629.65	628.67
LINE D	PB-D1-09	MH-D1-09	2	n/a	0.012	12.11	18.47	105.55	0.49	5.96	1.23	5.96	1.56	1.23	627.54	627.01	629.10	628.24
LINE D	MH-D1-09	PB-D1-10	2	n/a	0.012	12.11	18.53	150.45	0.49	5.96	1.23	5.96	1.25	1.23	626.99	626.24	628.24	627.47
LINE D	PB-D1-10	MH-D1-10	2	n/a	0.012	13.02	18.48	135.05	0.49	6.00	1.31	6.03	1.47	1.30	626.24	625.56	627.71	626.86
LINE D	MH-D1-10	PB-D1-11	2	3	0.012	13.98	46.10	79.95	0.49	5.69	0.82	5.66	0.88	0.82	625.54	625.14	626.41	625.96
LINE D	PB-D1-11	PB-D1-12	2	3	0.012	15.03	46.80	151.18	0.50	5.84	0.86	5.84	1.06	0.86	625.14	624.38	626.20	625.24
LINE D	MH-D1-12	MH-D1-11	2	3	0.012	17.13	46.32	113.87	0.49	6.05	0.94	6.03	1.30	0.95	624.38	623.81	625.68	624.76
LINE D	MH-D1-11	MH-D2-01	2	3	0.012	17.13	46.48	365.18	0.49	6.05	0.94	6.05	1.00	0.94	623.79	621.96	624.79	622.90
LINE D	MH-D2-01	MH-D2-02	2	3	0.012	18.03	46.39	285.00	0.49	6.17	0.97	6.12	1.15	0.98	621.93	620.51	623.09	621.49
LINE D	MH-D2-02	PB-D2-01	2	3	0.012	19.10	46.61	299.77	0.50	6.23	1.02	6.23	1.21	1.02	620.48	618.99	621.69	620.01
LINE D	PB-D2-01	MH-D2-03	2	3	0.012	20.16	46.03	70.05	0.48	6.30	1.07	6.29	1.26	1.07	618.99	618.63	620.24	619.70
LINE D	MH-D2-03	PB-D2-02	2	3	0.012	20.23	36.02	194.95	0.30	5.32	1.27	4.89	1.29	1.38	618.62	618.03	619.91	619.41
LINE D	PB-D2-02	MH-D2-04	2	3	0.012	20.91	35.65	65.05	0.29	5.24	1.33	5.37	1.38	1.30	618.03	617.84	619.41	619.14
LINE D	MH-D2-04	PB-D2-03	2	3	0.012	20.91	36.07	239.95	0.30	5.36	1.30	4.92	1.31	1.42	617.82	617.10	619.14	618.52
LINE D	PB-D2-03	MH-D2-05	2	3	0.012	21.56	34.14	20.05	0.27	5.16	1.39	5.37	1.42	1.34	617.10	617.04	618.52	618.38
LINE D	MH-D2-05	PB-D2-04	2	3	0.012	21.66	35.52	224.95	0.29	5.30	1.36	4.98	1.37	1.45	617.01	616.35	618.38	617.80
LINE D	PB-D2-04	MH-D2-06	2	3	0.012	22.31	35.87	114.63	0.29	5.34	1.39	5.41	1.45	1.37	616.35	616.01	617.80	617.38
LINE D	MH-D2-06	PB-D2-05	2	3	0.012	22.31	35.96	149.95	0.30	5.46	1.36	5.07	1.39	1.47	615.99	615.54	617.38	617.01
LINE D	PB-D2-05	MH-D2-07	2	3	0.012	22.91	36.03	185.46	0.30	5.48	1.39	5.36	1.47	1.42	615.54	614.99	617.01	616.41
LINE D	MH-D2-07	PB-D2-06	2	3	0.012	22.91	35.71	79.95	0.29	5.37	1.42	5.15	1.44	1.48	614.97	614.73	616.41	616.22
LINE D	PB-D2-06	MH-D2-08	2	3	0.012	23.49	36.08	265.05	0.30	5.50	1.42	5.27	1.48	1.49	614.73	613.94	616.22	615.42
LINE D	MH-D2-08	PB-D2-07	2	3	0.012	24.06	36.11	284.08	0.30	5.52	1.45	5.39	1.50	1.49	613.92	613.07	615.42	614.56
LINE D	PB-D2-07	OUTLET D	2	3	0.012	24.60	36.25	53.00	0.30	5.52	1.49	6.41	1.49	1.28	613.07	612.91	614.56	614.19
LAT D1-02	D1-02	PB-D1-02	2	n/a	0.012	0.12	17.89	23.40	0.46	1.54	0.12	0.28	0.27	0.39	639.05	638.93	639.32	639.32
LAT D1-03	D1-03	MH-D1-01	2	n/a	0.012	0.19	16.29	12.50	0.38	1.67	0.16	0.15	0.79	0.85	638.32	638.26	639.11	639.11
LAT D1-04	D1-04	PB-D1-03	2	n/a	0.012	1.54	22.61	4.91	0.74	3.89	0.37	0.99	0.96	0.99	638.16	638.11	639.12	639.10
LAT D1-05	D1-05	MH-D1-02	2	n/a	0.012	1.51</												

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STORM SEWER GEOPAK DRAINAGE COMPUTATIONS

LINE	UPSTREAM NODE	DOWNSTREAM NODE	RISE	SPAN	N VALUE	DISCHARGE	CAPACITY	LENGTH	SLOPE	UNIFORM VELOCITY	UNIFORM DEPTH	ACTUAL VELOCITY	ACTUAL DEPTH UPSTREAM	ACTUAL DEPTH DOWN-STREAM	INVERT UPSTREAM	INVERT DOWN-STREAM	HGL UPSTREAM	HGL DOWN-STREAM
ID	ID	ID	FT	FT		CFS	CFS	FT	%	FT/S	FT	FT/S	FT	FT	FT	FT	FT	FT
LAT D1-10	D1-10	PB-D1-07	2	n/a	0.012	1.59	22.61	4.91	0.74	3.93	0.37	0.73	1.27	1.31	630.96	630.92	632.23	632.22
LAT D1-11	D1-11	PB-D1-08	2	n/a	0.012	1.78	22.61	4.91	0.74	4.08	0.39	0.77	1.34	1.38	629.59	629.54	630.93	630.92
LAT D1-12	D1-12	PB-D1-09	2	n/a	0.012	2.60	22.61	4.91	0.74	4.55	0.47	0.99	1.52	1.56	627.59	627.54	629.11	629.10
LAT D1-13	D1-13	MH-D1-10	2	n/a	0.012	1.53	16.22	14.00	0.38	3.05	0.43	1.17	0.82	0.86	625.62	625.55	626.44	626.41
LAT D1-14	D1-14	PB-D1-10	2	n/a	0.012	1.59	22.61	4.91	0.74	3.95	0.37	0.64	1.43	1.47	626.29	626.24	627.72	627.71
LAT D1-15	D1-15	PB-D1-11	2	n/a	0.012	1.60	22.61	4.91	0.74	3.95	0.37	0.94	1.03	1.06	625.19	625.14	626.22	626.20
LAT D1-16	D1-16	PB-D1-12	2	n/a	0.012	3.23	22.61	4.91	0.74	4.84	0.53	1.49	1.29	1.30	624.43	624.38	625.72	625.68
LAT D2-01	D2-01	MH-D2-01	2	n/a	0.012	2.17	14.44	1.75	0.30	3.14	0.54	1.17	1.15	1.14	621.97	621.95	623.11	623.09
LAT D2-02	D2-02	MH-D2-02	2	n/a	0.012	2.12	14.44	1.75	0.30	3.13	0.54	1.08	1.20	1.20	620.52	620.50	621.71	621.69
LAT D2-03	D2-03	PB-D2-01	2	n/a	0.012	2.19	22.61	4.91	0.74	4.32	0.44	1.05	1.23	1.26	619.03	618.99	620.26	620.24
LAT D2-04	D2-04	MH-D2-03	2	n/a	0.012	0.10	12.11	12.50	0.21	1.13	0.14	0.05	1.25	1.28	618.67	618.63	619.91	619.91
LAT D2-05	D2-05	PB-D2-02	2	n/a	0.012	1.65	22.61	4.91	0.74	3.98	0.38	0.71	1.34	1.38	618.08	618.03	619.42	619.41
LAT D2-06	D2-06	PB-D2-03	2	n/a	0.012	1.76	22.61	4.91	0.74	4.04	0.39	0.74	1.38	1.42	617.15	617.10	618.53	618.52
LAT D2-07	D2-07	MH-D2-05	2	n/a	0.012	0.22	17.12	14.00	0.42	1.80	0.17	0.10	1.27	1.35	617.11	617.04	618.38	618.38
LAT D2-08	D2-08	PB-D2-04	2	n/a	0.012	1.60	22.61	4.91	0.74	3.93	0.37	0.65	1.41	1.45	616.40	616.35	617.81	617.80
LAT D2-09	D2-09	PB-D2-05	2	n/a	0.012	1.64	22.61	4.91	0.74	3.99	0.38	0.67	1.42	1.47	615.59	615.54	617.02	617.01
LAT D2-10	D2-10	PB-D2-06	2	n/a	0.012	1.64	22.61	4.91	0.74	3.99	0.38	0.66	1.44	1.48	614.78	614.73	616.22	616.22
LAT D2-11	D2-11	MH-D2-08	2	n/a	0.012	1.64	14.03	1.75	0.28	2.86	0.48	0.65	1.48	1.49	613.95	613.93	615.43	615.42
LAT D2-12	D2-12	PB-D2-07	2	n/a	0.012	1.67	25.54	18.56	0.94	4.35	0.36	0.67	1.31	1.49	613.26	613.07	614.57	614.56
LINE E E1-01	PB-E1-01	MH-E1-01	2	n/a	0.012	1.49	22.61	4.91	0.74	3.87	0.36	3.64	0.57	0.38	639.41	639.36	639.98	639.74
LINE E PB-E1-01	MH-E1-01	PB-E1-01	2	n/a	0.012	1.49	16.61	235.10	0.40	3.14	0.42	3.14	0.52	0.42	639.36	638.42	639.88	638.84
LINE E MH-E1-01	MH-E1-02	PB-E1-02	2	n/a	0.012	2.77	16.51	196.46	0.39	3.73	0.57	3.73	0.92	0.57	638.40	637.62	639.33	638.19
LINE E MH-E1-02	PB-E1-02	MH-E1-03	2	n/a	0.012	5.54	16.28	40.45	0.38	4.45	0.84	2.76	1.36	1.22	637.60	637.44	638.96	638.66
LINE E PB-E1-02	MH-E1-03	PB-E1-03	2	n/a	0.012	6.89	16.58	175.55	0.40	4.76	0.94	3.40	1.22	1.23	637.44	636.74	638.66	637.97
LINE E MH-E1-03	PB-E1-03	MH-E1-04	2	n/a	0.012	8.07	16.57	155.45	0.40	4.97	1.03	3.49	1.25	1.38	636.72	636.10	637.97	637.48
LINE E PB-E1-03	MH-E1-04	PB-E1-04	2	n/a	0.012	9.44	16.53	120.55	0.39	5.16	1.13	4.41	1.38	1.29	636.10	635.62	637.48	636.90
LINE E MH-E1-04	PB-E1-04	MH-E1-05	2	n/a	0.012	9.44	16.28	40.45	0.38	5.08	1.14	3.96	1.30	1.42	635.60	635.44	636.90	636.86
LINE E PB-E1-04	MH-E1-05	PB-E1-05	2	n/a	0.012	10.62	16.67	160.23	0.40	5.30	1.22	4.22	1.42	1.49	635.44	634.80	636.86	636.29
LINE E MH-E1-05	PB-E1-05	MH-E1-06	2	n/a	0.012	11.72	16.48	85.55	0.39	5.33	1.32	4.99	1.49	1.40	634.80	634.46	636.29	635.86
LINE E PB-E1-05	MH-E1-06	PB-E1-06	2	n/a	0.012	11.72	16.45	70.45	0.39	5.33	1.32	4.45	1.42	1.56	634.44	634.16	635.86	635.72
LINE E MH-E1-06	PB-E1-06	MH-E1-07	2	n/a	0.012	12.78	16.67	160.00	0.40	5.53	1.38	4.67	1.56	1.63	634.16	633.52	635.72	635.14
LINE E PB-E1-06	MH-E1-07	PB-E1-07	2	n/a	0.012	13.85	16.37	55.55	0.39	5.49	1.50	6.17	1.63	1.34	633.52	633.30	635.14	634.64
LINE E MH-E1-07	PB-E1-07	MH-E1-08	2	n/a	0.012	13.85	18.47	100.45	0.49	6.07	1.36	5.11	1.36	1.61	633.28	632.77	634.64	634.38
LINE E PB-E1-07	MH-E1-08	PB-E1-08	2	n/a	0.012	14.90	18.64	150.00	0.50	6.16	1.44	5.33	1.61	1.66	632.77	632.02	634.38	633.69
LINE E MH-E1-08	PB-E1-08	MH-E1-09	2	n/a	0.012	15.82	18.15	35.55	0.47	6.15	1.53	6.56	1.66	1.43	632.02	631.85	633.69	633.28
LINE E PB-E1-08	MH-E1-09	PB-E1-09	2	n/a	0.012	15.82	45.63	120.47	0.34	5.52	1.28	4.84	1.30	1.41	630.83	630.40	632.12	631.81
LINE E MH-E1-09	PB-E1-09	MH-E1-10	3	n/a	0.012	16.67	45.72	155.55	0.35	5.69	1.30	5.69	1.41	1.30	630.40	629.86	631.81	631.16
LINE E PB-E1-09	MH-E1-10	PB-E1-10	3	n/a	0.012	17.47	45.70	150.45	0.35	5.71	1.34	3.33	1.66	2.09	629.84	629.32	631.51	631.40
LINE E MH-E1-10	PB-E1-10	MH-E1-11	3	n/a	0.012	18.39	46.77	233.55	0.36	5.88	1.36	2.66	2.09	2.83	629.32	628.46	631.40	631.28
LINE E PB-E1-10	MH-E1-11	PB-E1-11	3	n/a	0.012	42.46	53.24	58.45	0.47	7.81	2.16	7.39	3.00	2.27	627.46	627.16	631.28	629.44
LINE E MH-E1-11	PB-E1-11	MH-E1-12	3	n/a	0.012	43.71	54.96	180.00	0.50	8.13	2.13	8.13	2.27	2.13	627.16	626.26	629.44	628.40
LINE E PB-E1-11	MH-E1-12	PB-E1-12	3	n/a	0.012	44.67	54.27	75.55	0.49	8.04	2.20	6.50	2.68	2.80	626.26	625.89	628.95	628.69
LINE E MH-E1-12	PB-E1-12	MH-E1-13	3	n/a	0.012	44.67	45.56	100.45	0.34	6.78	2.64	6.45	2.82	2.84	625.87	625.52	628.69	628.35
LINE E PB-E1-12	MH-E1-13	PB-E1-13	3	n/a	0.012	45.48	46.04	101.18	0.35	6.60	2.82	6.66	2.84	2.78	625.52	625.16	628.35	627.94
LINE E MH-E1-13	PB-E1-13	MH-E1-14	3	n/a	0.012	47.69	45.23	112.37	0.34	6.92	3.00	8.39	2.78	2.25	625.16	624.77	627.94	627.02
LINE E PB-E1-13	MH-E1-14	PB-E1-14	3	5	0.012	47.69	132.75	326.82	0.35	6.85	1.39	6.85	1.45	1.39	624.74	623.58	626.19	624.97
LINE E MH-E1-14	PB-E1-14	MH-E1-15	3	5	0.012	73.60	152.80	43.45	0.46	8.57	1.72	8.41	3.00	1.75	622.58	622.36	625.75	624.11
LINE E PB-E1-14	MH-E1-15	PB-E1-15	3	5	0.012	75.11	157.68	178.55	0.49	8.75	1.72	8.75	2.00	1.72	622.36	621.47	624.36	623.19
LINE E MH-E1-15	PB-E1-15	MH-E1-16	3	5	0.012	83.81	140.70	13.45	0.39	8.30	2.02	8.30	2.49	2.02	621.43	621.36	623.93	623.38
LINE E PB-E1-15	MH-E1-16	PB-E1-16	3	5	0.012	84.96	159.41	190.00	0.50	9.15	1.86	9.13	2.14	1.86	621.36	620.41	623.50	622.28
LINE E MH-E1-16	PB-E1-16	MH-E1-17	3	5	0.012	85.45	159.41	225.19	0.50	9.21	1.86	9.14	2.11	1.87	620.41	619.29	622.53	621.16
LINE E PB-E1-16	MH-E1-17	PB-E1-17	3	5	0.012	86.32	160.16	16.05	0.50	9.19	1.88	6.02	2.80	2.87	619.29	619.21	622.09	622.07
LINE E MH-E1-17	PB-E1-17	MH-E1-18	3	5	0.012	87.08	123.67	43.86	0.30	7.66	2.27	5.91	2.87	2.95	619.21	619.07	622.07	622.02
LINE E PB-E1-17	MH-E1-18	PB-E1-18	3	5	0.012	101.64	117.84	40.64	0.27	7.69	2.65	8.12	2.95	2.50	619.07	618.95	622.02	621.45
LINE E MH-E1-18	PB-E1-18	MH-E1-19	3	5	0.012	103.24	135.69	56.45	0.36	8.56	2.41	7.98	2.53	2.59	618.93	618.71	621.45	621.30
LINE E PB-E1-18	MH-E1-19	PB-E1-19	3	5	0.012	104.00	127.45	250.00	0.32	8.15	2.55	7.42	2.59	2.80	618.71	617.91	621.30	620.71
LINE E MH-E1-19	PB-E1-19	MH-E1-20	3	5	0.012	105.06	121.87	145.55	0.29	7.94	2.65	7.14	2.80	2.94	617.91	617.47	620.71	620.42
LINE E PB-E1-19	MH-E1-20	PB-E1-20	3	7	0.012	135.25	189.75	96.45	0.29	8.33	2.32	7.99	2.97	2.42	617.45	617.16	620.42	619.58
LINE E MH-E1-20	PB-E1-20	MH-E1-21	3	7	0.012	135.57	191.32	174.55	0.29	8.35	2.32	6.85	2.42	2.83	617.16	616.64	619.58	619.46
LINE E PB-E1-20	MH-E1-21	PB-E1-21	3	7	0.012	146.67	187.75	62.87	0.28	8.36	2.51	8.60	2.85	2.44	616.61	616.42	619.46	618.86
LINE E MH-E1-21	PB-E1-21	MH-E1-22	3	7	0.012	147.10	193.43	175.00	0.30	8.71	2.41	8.42	2.44	2.50	616.42	615.90	618.86	618.39
LINE E PB-E1-21	MH-E1-22	PB-E1-22	3	7	0.012	147.80	191.22	163.13	0.29	8.58	2.46	8.41	2.50	2.51	615.90	615.41	618.39	617.92
LINE E MH-E1-22	PB-E1-22	MH-E1-23	3	7	0.012	147.80	176.35	18.45	0.25	8.12	2.60	8.50	2.53	2.48	615.38			





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**STORM SEWER GEOPAK DRAINAGE COMPUTATIONS**

LINE	UPSTREAM NODE	DOWNSTREAM NODE	RISE	SPAN	N VALUE	DISCHARGE	CAPACITY	LENGTH	SLOPE	UNIFORM VELOCITY	UNIFORM DEPTH	ACTUAL VELOCITY	ACTUAL DEPTH UPSTREAM	ACTUAL DEPTH DOWN-STREAM	INVERT UPSTREAM	INVERT DOWN-STREAM	HGL UPSTREAM	HGL DOWN-STREAM
ID	ID	ID	FT	FT		CFS	CFS	FT	%	FT/S	FT	FT/S	FT	FT	FT	FT	FT	FT
LAT E2-21	E2-21	PB-E2-18	2	n/a	0.012	8.36	56.21	5.00	4.55	12.18	0.54	3.05	1.53	1.63	615.76	615.51	617.30	617.14
LAT E2-21	PB-E2-18	PB-E2-17	2.5	n/a	0.012	8.36	98.87	17.32	4.28	11.64	0.51	1.75	1.63	2.35	615.51	614.77	617.14	617.12
LAT E2-22	E2-22	MH-E2-08	2.5	n/a	0.012	20.93	12.80	2.15	0.07	4.37	2.50	4.36	2.50	2.36	614.13	614.12	616.80	616.48
LAT E2-23	E2-23	PB-E2-19	2	n/a	0.012	1.29	23.38	6.13	0.79	3.80	0.33	0.42	1.79	1.85	614.59	614.52	616.38	616.37
LAT E2-24	E2-24	PB-E2-21	2	n/a	0.012	2.87	69.72	5.00	6.99	10.37	0.29	6.70	0.80	0.39	616.43	616.08	617.23	616.46
LAT E2-24	PB-E2-21	PB-E2-20	2	n/a	0.012	2.87	67.67	25.55	6.59	10.15	0.29	9.26	0.69	0.31	616.08	614.39	616.77	614.70
LINE E3	E3-01	PB-E3-01	2	4	0.012	70.75	437.09	20.00	5.00	15.91	0.56	11.33	2.00	0.78	614.30	613.30	616.61	614.08
LINE E3	PB-E3-01	PB-E3-02	2	4	0.012	70.75	107.07	50.00	0.30	6.08	1.45	4.58	1.96	1.93	613.30	613.15	615.26	615.08
LINE E3	PB-E3-02	PB-E3-04	2	4	0.012	77.54	107.07	30.00	0.30	6.27	1.55	5.25	1.93	1.85	613.15	613.06	615.08	614.91
LINE E3	PB-E3-04	PB-E3-05	2	4	0.012	77.54	107.07	90.00	0.30	6.27	1.55	5.54	1.85	1.75	613.06	612.79	614.91	614.54
LINE E3	PB-E3-05	OUTLET E3	2	4	0.012	77.54	112.86	15.00	0.33	6.39	1.52	6.78	1.75	1.43	612.79	612.74	614.54	614.17
LAT E3-02	E3-02	E3-03	2	n/a	0.012	6.07	26.27	11.75	0.25	3.26	0.67	1.03	1.76	1.78	613.36	613.33	615.12	615.11
LAT E3-02	E3-03	PB-E3-03	2	n/a	0.012	7.36	27.59	17.60	0.27	3.52	0.73	1.22	1.79	1.83	613.32	613.27	615.11	615.10
LAT E3-02	PB-E3-03	PB-E3-02	2	n/a	0.012	7.36	28.92	38.22	0.30	3.62	0.72	1.18	1.83	1.93	613.27	613.15	615.10	615.08
LINE F1	F1-01	PB-F1-01	2	n/a	0.012	1.94	22.42	4.33	0.72	4.15	0.41	2.39	0.67	0.61	612.15	612.11	612.82	612.72
LINE F1	PB-F1-01	MH-F1-01	2	n/a	0.012	1.94	15.53	214.13	0.35	3.17	0.50	0.96	0.61	1.23	612.11	611.36	612.72	612.58
LINE F1	MH-F1-01	PB-F1-02	2	n/a	0.012	4.49	15.43	93.40	0.34	4.08	0.76	3.46	1.24	0.86	611.34	611.01	612.58	611.88
LINE F1	PB-F1-02	OUTLET F1	2	n/a	0.012	4.49	15.60	20.00	0.35	4.08	0.76	4.21	0.86	0.74	611.01	610.94	611.88	611.69
LAT F1-02	F1-02	MH-F1-01	2	n/a	0.012	2.76	15.08	1.75	0.33	3.47	0.60	1.36	1.25	1.23	611.37	611.35	612.61	612.58
LINE F2	F2-01	PB-F2-01	2	n/a	0.012	2.01	22.42	4.33	0.72	4.19	0.42	2.48	0.67	0.61	616.60	616.56	617.27	617.17
LINE F2	PB-F2-01	MH-F2-01	2	n/a	0.012	2.01	15.54	255.83	0.35	3.22	0.51	1.38	0.61	0.94	616.56	615.66	617.17	616.60
LINE F2	MH-F2-01	PB-F2-02	2	n/a	0.012	2.01	15.36	60.17	0.34	3.22	0.51	1.06	0.95	1.16	615.65	615.44	616.60	616.60
LINE F2	PB-F2-02	MH-F2-02	2	n/a	0.012	3.80	15.53	225.83	0.35	3.85	0.70	2.50	1.16	0.98	615.44	614.65	616.60	615.62
LINE F2	MH-F2-02	MH-F2-03	2	n/a	0.012	4.98	15.45	216.00	0.34	4.20	0.81	2.83	0.99	1.10	614.63	613.88	615.62	614.97
LINE F2	MH-F2-03	MH-F2-04	2	n/a	0.012	6.00	15.46	216.56	0.34	4.41	0.89	2.18	1.11	1.63	613.86	613.10	614.97	614.74
LINE F2	MH-F2-04	PB-F2-03	2	n/a	0.012	10.95	15.53	207.27	0.35	5.11	1.29	4.23	1.65	1.54	613.09	612.36	614.74	613.90
LINE F2	PB-F2-03	MH-F2-05	2	n/a	0.012	11.77	15.40	68.32	0.34	5.10	1.38	4.82	1.54	1.45	612.36	612.12	613.90	613.57
LINE F2	MH-F2-05	PB-F2-04	2	n/a	0.012	11.77	15.49	145.14	0.35	5.10	1.38	4.40	1.47	1.59	612.11	611.60	613.57	613.19
LINE F2	PB-F2-04	PB-F2-05	2	n/a	0.012	12.58	15.61	111.51	0.35	5.20	1.44	4.82	1.59	1.55	611.60	611.21	613.19	612.76
LINE F2	PB-F2-05	OUTLET F2	2	n/a	0.012	12.58	15.67	15.00	0.35	5.20	1.44	5.95	1.55	1.28	611.21	611.16	612.76	612.43
LAT F2-02	F2-02	PB-F2-02	2	n/a	0.012	2.04	22.42	4.33	0.72	4.24	0.42	1.08	1.14	1.16	615.48	615.44	616.62	616.60
LAT F2-03	F2-03	MH-F2-02	2	n/a	0.012	1.45	15.08	1.75	0.33	2.91	0.43	0.95	0.98	0.98	614.66	614.64	615.64	615.62
LAT F2-04	F2-04	MH-F2-03	2	n/a	0.012	1.34	15.08	1.75	0.33	2.81	0.42	0.75	1.09	1.10	613.89	613.87	614.98	614.97
LAT F2-05	F2-05	F2-06	2	n/a	0.012	4.66	13.48	9.75	0.26	3.66	0.85	1.73	1.62	1.60	613.18	613.14	614.80	614.75
LAT F2-05	F2-06	MH-F2-04	2	n/a	0.012	5.99	15.08	1.75	0.33	4.31	0.91	2.17	1.63	1.64	613.11	613.10	614.75	614.74
LAT F2-07	F2-07	PB-F2-03	2	n/a	0.012	1.27	22.15	4.33	0.71	3.64	0.34	0.49	1.50	1.54	612.41	612.36	613.90	613.90
LAT F2-08	F2-08	PB-F2-04	2	n/a	0.012	1.31	22.42	4.33	0.72	3.69	0.34	0.49	1.55	1.59	611.65	611.60	613.19	613.19
LINE F3	F3-01	PB-F3-01	2	n/a	0.012	5.65	15.59	26.59	0.35	4.34	0.87	3.11	1.22	1.12	613.05	612.96	614.27	614.08
LINE F3	PB-F3-01	PB-F3-02	2	n/a	0.012	5.65	15.67	20.08	0.35	4.34	0.87	3.38	1.12	1.05	612.96	612.89	614.08	613.94
LINE F3	PB-F3-02	MH-F3-01	2	n/a	0.012	5.65	15.46	107.97	0.34	4.34	0.87	2.88	1.05	1.20	612.89	612.51	613.94	613.71
LINE F3	MH-F3-01	PB-F3-03	2	n/a	0.012	6.79	15.52	213.13	0.35	4.51	0.97	2.58	1.21	1.56	612.49	611.75	613.71	613.31
LINE F3	PB-F3-03	PB-F3-04	2	n/a	0.012	9.20	15.61	85.61	0.35	4.88	1.16	4.30	1.56	1.29	611.75	611.45	613.31	612.74
LINE F3	PB-F3-04	OUTLET F3	2	n/a	0.012	9.20	15.60	20.00	0.35	4.88	1.16	5.30	1.29	1.08	611.45	611.38	612.74	612.46
LAT F3-02	F3-02	MH-F3-01	2	n/a	0.012	1.31	15.08	1.75	0.33	2.81	0.41	0.66	1.19	1.20	612.52	612.50	613.71	613.71
LAT F3-03	F3-03	PB-F3-03	2	n/a	0.012	2.76	22.43	4.33	0.72	4.61	0.49	1.05	1.54	1.56	611.79	611.75	613.33	613.31
LINE F4	F4-01	PB-F4-01	2	n/a	0.012	2.34	22.42	4.33	0.72	4.40	0.45	0.84	1.63	1.66	620.48	620.44	622.11	622.10
LINE F4	PB-F4-01	PB-F4-02	2.5	n/a	0.012	2.34	47.83	35.25	1.00	4.79	0.39	0.55	1.66	2.01	620.44	620.09	622.10	622.10
LINE F4	PB-F4-02	PB-F4-04	2.5	n/a	0.012	8.29	47.81	86.15	1.00	6.94	0.73	6.84	2.01	0.74	620.09	619.22	622.10	619.96
LINE F4	PB-F4-04	PB-F4-06	2.5	n/a	0.012	9.51	47.80	138.60	1.00	7.22	0.78	7.17	1.24	0.79	619.22	617.84	620.46	618.63
LINE F4	PB-F4-06	MH-F4-01	2.5	n/a	0.012	10.83	46.56	35.83	0.95	7.33	0.85	6.88	1.32	0.89	617.84	617.48	619.16	618.37
LINE F4	MH-F4-01	PB-F4-07	2.5	n/a	0.012	10.83	47.57	200.17	0.99	7.44	0.84	7.44	1.10	0.84	617.46	615.46	618.56	616.30
LINE F4	PB-F4-07	MH-F4-02	2.5	n/a	0.012	11.83	33.48	95.83	0.49	5.95	1.06	5.90	1.31	1.07	615.46	614.98	616.77	616.05
LINE F4	MH-F4-02	PB-F4-08	2.5	n/a	0.012	11.83	33.56	140.17	0.49	5.95	1.06	5.92	1.15	1.07	614.96	614.26	616.11	615.32
LINE F4	PB-F4-08	MH-F4-03	2.5	n/a	0.012	12.75	33.60	155.83	0.49	6.00	1.12	2.91	1.38	2.09	614.26	613.48	615.63	615.56
LINE F4	MH-F4-03	PB-F4-09	3	n/a	0.012	12.75	36.47	124.70	0.22	4.45	1.28	2.15	2.10	2.34	613.46	613.18	615.56	615.53
LINE F4	PB-F4-09	PB-F4-10	3	n/a	0.012	20.12	46.14	30.36	0.35	5.94	1.45	5.55	2.34	1.53	613.18	613.08	615.53	614.60
LINE F4	PB-F4-10	PB-F4-12	3	n/a	0.012	20.54	46.10	46.89	0.35	6.06	1.45	5.53	1.53	1.56	613.08	612.91	614.60	614.47
LINE F4	PB-F4-12	PB-F4-14	3	n/a	0.012	20.94	46.11	115.65	0.35	6.06	1.47	5.19	1.56	1.67	612.91	612.50	614.47	614.17
LINE F4	PB-F4-14	MH-F4-04	3	n/a	0.012	21.69	42.41	15.13	0.30	5.73	1.58	5.75	1.67	1.58	612.50	612.45	614.17	614.03
LINE F4	MH-F4-04	PB-F4-15	3	n/a	0.012	21.69	45.74	183.42	0.35	6.04	1.52	5.49	1.59	1.64	612.44	611.80	614.03	613.43
LINE F4	PB-F4-15	PB-F4-16	3	n/a	0.012	22.27	46.00	99.33	0.35	6.09	1.54	5.17	1.64	1.76	611.80	611.45	613.43	613.21
LINE F4	PB-F4-16	OUTLET F4	3	n/a	0.012	22.27	45.98	20.00	0.35	6.09	1.54	6.20	1.76	1.52	611.45	611.38	613.21	612.90
LAT F4-02	F4-02	PB-F4-03	2.5	n/a	0.012	6.36	47.80	7.00	1.00	6.42	0.64	1.71	1.75	1.77	620.40	620.33	622.15	622.10
LAT F4-02	PB-F4-03	PB-F4-02	2.5	n/a	0.012	6.36	47.87	24.83	1.00	6.45	0.64	1.50	1.77	2.01	620.33	620.09	622.10	622.10
L																		

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**STORM SEWER GEOPAK DRAINAGE COMPUTATIONS**

LINE	UPSTREAM NODE	DOWNSTREAM NODE	RISE	SPAN	N VALUE	DISCHARGE	CAPACITY	LENGTH	SLOPE	UNIFORM VELOCITY	UNIFORM DEPTH	ACTUAL VELOCITY	ACTUAL DEPTH UPSTREAM	ACTUAL DEPTH DOWN-STREAM	INVERT UPSTREAM	INVERT DOWN-STREAM	HGL UPSTREAM	HGL DOWN-STREAM
ID	ID	ID	FT	FT		CFS	CFS	FT	%	FT/S	FT	FT/S	FT	FT	FT	FT	FT	FT
LAT F4-04	F4-04	PB-F4-06	2	n/a	0.012	1.73	22.42	4.33	0.72	4.04	0.39	0.79	1.28	1.32	617.88	617.84	619.17	619.16
LAT F4-05	F4-05	PB-F4-07	2	n/a	0.012	1.46	22.42	4.33	0.72	3.82	0.36	0.67	1.28	1.31	615.50	615.46	616.78	616.77
LAT F4-06	F4-06	PB-F4-08	2	n/a	0.012	1.46	22.42	4.33	0.72	3.81	0.36	0.63	1.34	1.38	614.30	614.26	615.64	615.63
LAT F4-07	F4-07	F4-08	2.5	n/a	0.012	8.59	41.50	9.75	0.75	6.32	0.80	1.83	2.24	2.28	613.35	613.26	615.59	615.54
LAT F4-07	F4-08	PB-F4-09	3	n/a	0.012	10.03	66.12	4.33	0.72	6.41	0.82	1.69	2.31	2.34	613.23	613.18	615.54	615.53
LAT F4-09	F4-09	PB-F4-11	2	n/a	0.012	0.61	18.68	26.29	0.50	2.58	0.26	0.24	1.35	1.48	613.26	613.13	614.61	614.61
LAT F4-09	PB-F4-11	PB-F4-10	2	n/a	0.012	0.61	18.64	10.40	0.50	2.58	0.26	0.24	1.48	1.53	613.13	613.08	614.61	614.60
LAT F4-10	F4-10	PB-F4-13	2	n/a	0.012	0.62	18.65	21.18	0.50	2.59	0.26	0.24	1.39	1.50	613.08	612.97	614.47	614.47
LAT F4-10	PB-F4-13	PB-F4-12	2	n/a	0.012	0.62	18.68	12.54	0.50	2.59	0.26	0.23	1.50	1.56	612.97	612.91	614.47	614.47
LAT F4-11	F4-11	PB-F4-14	2	n/a	0.012	1.24	22.93	4.33	0.76	3.69	0.33	0.44	1.63	1.67	612.55	612.50	614.17	614.17
LAT F4-12	F4-12	PB-F4-15	2	n/a	0.012	1.24	22.43	4.33	0.72	3.64	0.33	0.45	1.60	1.64	611.84	611.80	613.44	613.43
LINE G1	G1-01	MH-G1-01	2	n/a	0.012	1.59	15.08	1.75	0.33	2.97	0.45	1.76	0.70	0.66	623.26	623.24	623.96	623.90
LINE G1	MH-G1-01	MH-G1-02	2	n/a	0.012	1.59	15.43	265.23	0.34	3.04	0.45	0.64	0.67	1.48	623.23	622.31	623.90	623.79
LINE G1	MH-G1-02	MH-G1-03	2.5	n/a	0.012	3.30	28.06	254.88	0.34	3.60	0.61	0.92	1.49	1.72	622.30	621.41	623.79	623.12
LINE G1	MH-G1-03	MH-G1-04	2.5	n/a	0.012	9.07	28.13	379.14	0.35	4.89	1.01	2.03	1.73	2.13	621.39	620.07	623.12	622.20
LINE G1	MH-G1-04	OUTLET G	2.5	n/a	0.012	13.29	26.76	16.50	0.31	5.14	1.30	5.55	2.14	1.23	620.06	620.00	622.20	621.23
LINE G2	G2-01	MH-G2-01	2.5	n/a	0.012	2.70	27.60	72.75	0.33	3.37	0.55	0.65	1.72	1.96	620.55	620.29	622.26	622.25
LINE G2	MH-G2-01	MH-G1-04	2.5	n/a	0.012	5.31	27.43	62.48	0.33	4.13	0.77	1.19	1.97	2.13	620.28	620.07	622.25	622.20
LINE G3	G3-01	MH-G3-01	2	n/a	0.012	1.55	15.08	1.75	0.33	2.95	0.45	1.87	0.66	0.62	623.41	623.39	624.07	624.01
LINE G3	MH-G3-01	MH-G3-02	2	n/a	0.012	1.55	15.47	246.77	0.34	3.02	0.44	1.07	0.63	0.94	623.38	622.52	624.01	623.46
LINE G3	MH-G3-02	MH-G3-03	2	n/a	0.012	2.90	15.47	246.77	0.34	3.59	0.61	1.08	0.95	1.59	622.51	621.64	623.46	623.23
LINE G3	MH-G3-03	MH-G1-03	2	n/a	0.012	4.33	15.17	67.00	0.33	3.93	0.76	1.50	1.59	1.72	621.63	621.40	623.23	623.12
LAT G1-02	G1-02	MH-G1-02	2	n/a	0.012	1.91	15.08	1.75	0.33	3.12	0.50	0.76	1.48	1.48	622.32	622.31	623.80	623.79
LAT G1-03	G1-03	MH-G1-03	2	n/a	0.012	1.83	15.08	1.75	0.33	3.06	0.49	0.64	1.71	1.72	621.42	621.40	623.13	623.12
LAT G2-02	G2-02	MH-G2-01	2	n/a	0.012	2.69	15.08	1.75	0.33	3.44	0.59	0.86	1.95	1.96	620.31	620.29	622.26	622.25
LAT G3-02	G3-02	MH-G3-02	2	n/a	0.012	1.52	15.08	1.75	0.33	2.89	0.45	1.04	0.94	0.94	622.53	622.51	623.47	623.46
LAT G3-03	G3-03	MH-G3-03	2	n/a	0.012	1.71	15.08	1.75	0.33	3.05	0.47	0.64	1.58	1.59	621.65	621.63	623.23	623.23

**100% PLANS ADEQUATE**  
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 or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

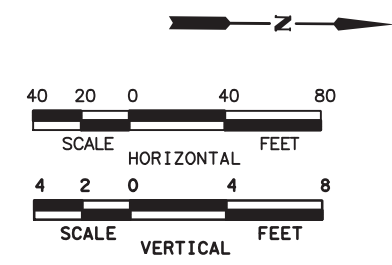
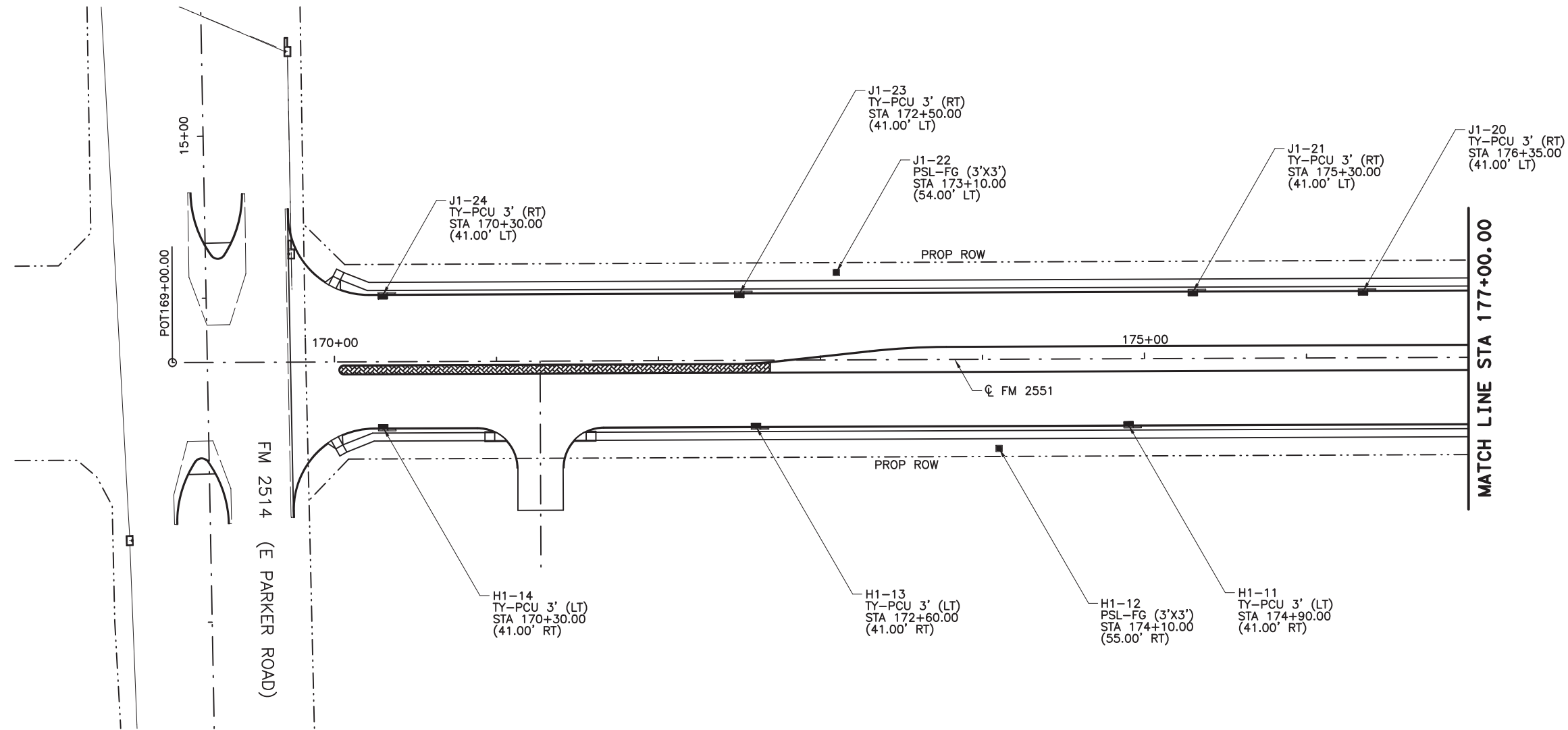
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

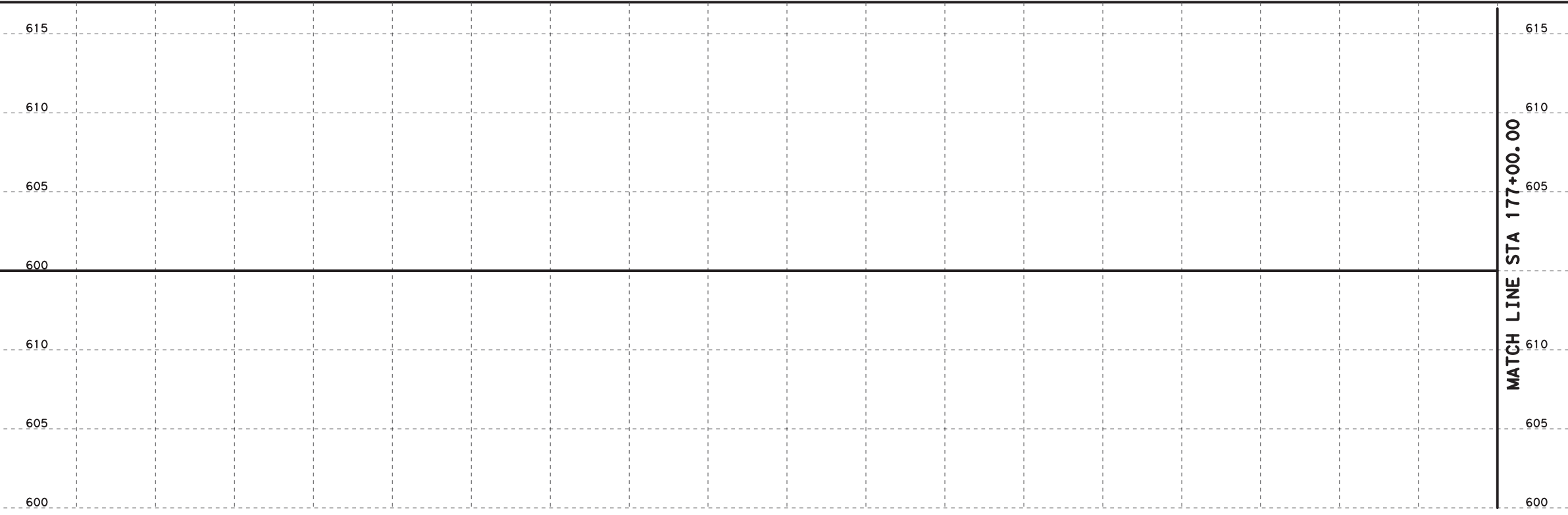
**STORM SEWER COMPUTATIONS**

Designed: CPY	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 239		

8/16/2019 9:26:06 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp01A.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



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**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

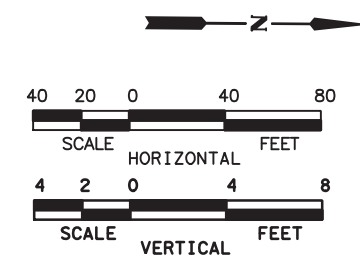
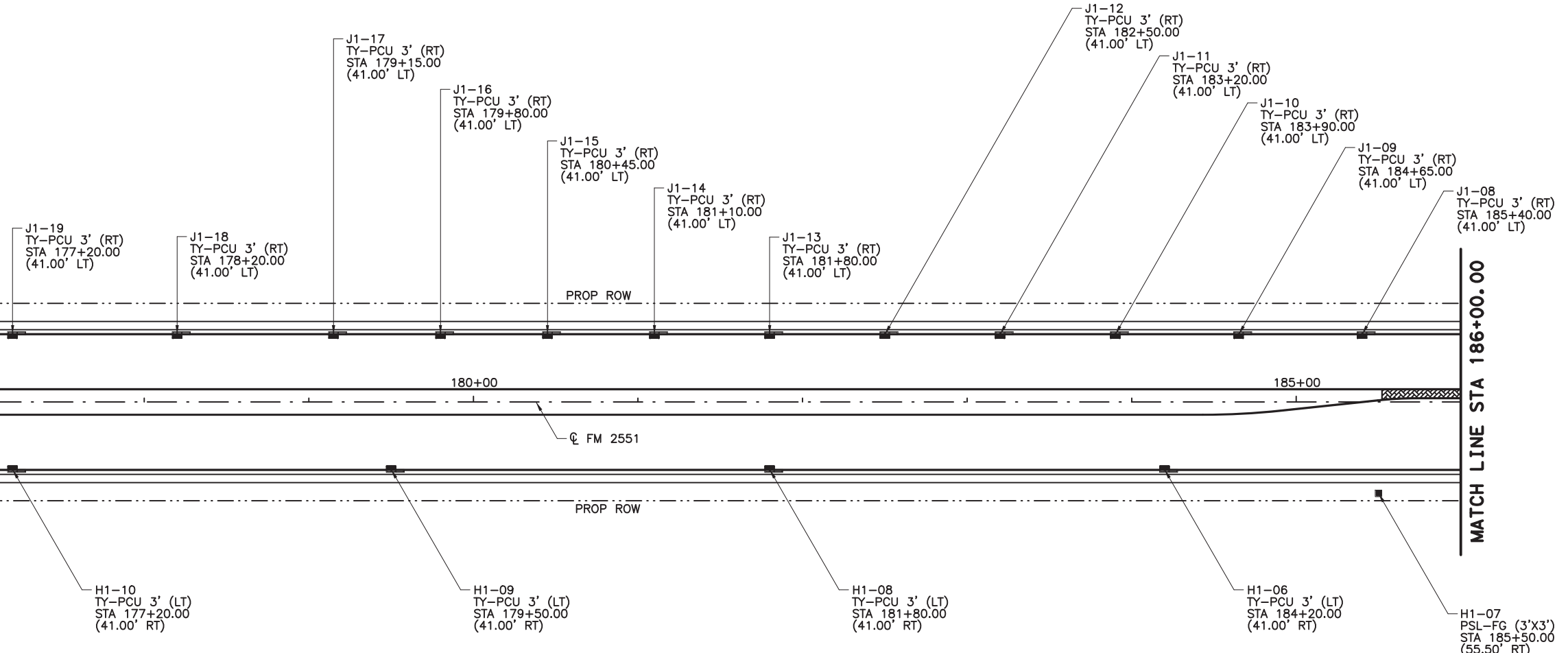
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BEGIN PROJECT TO STA 177+00.00

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Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01	042
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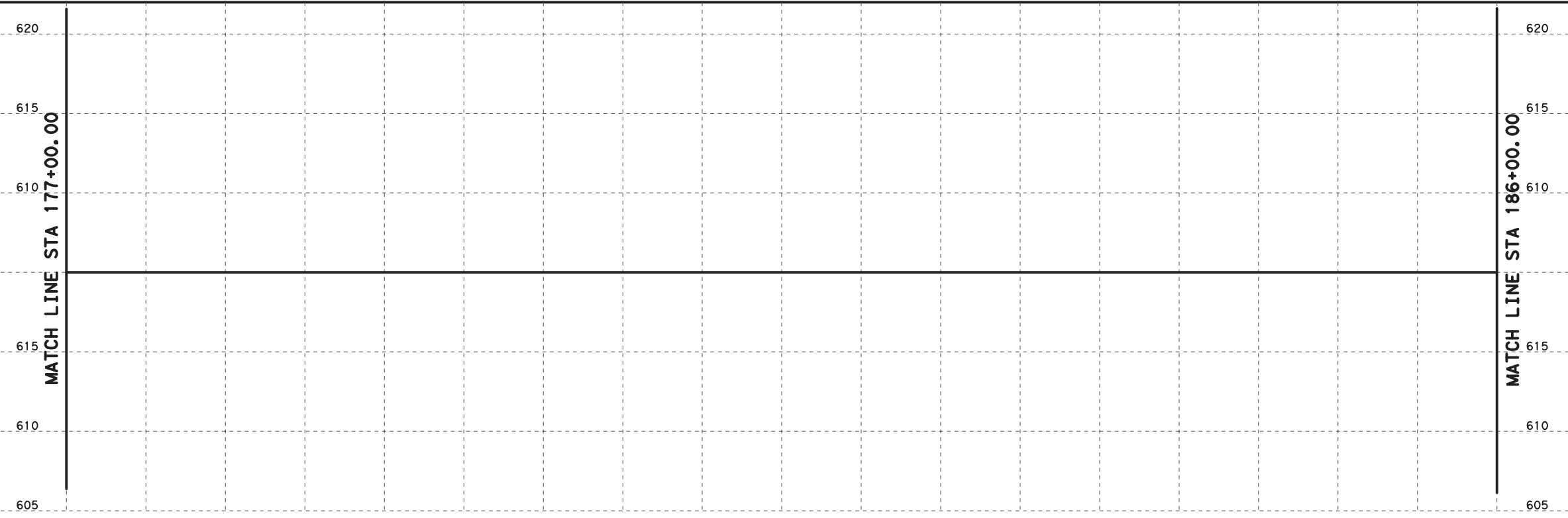
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MATCH LINE STA 177+00.00

MATCH LINE STA 186+00.00



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**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

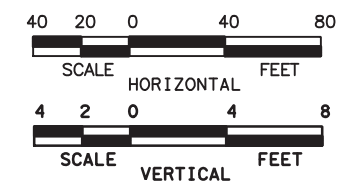
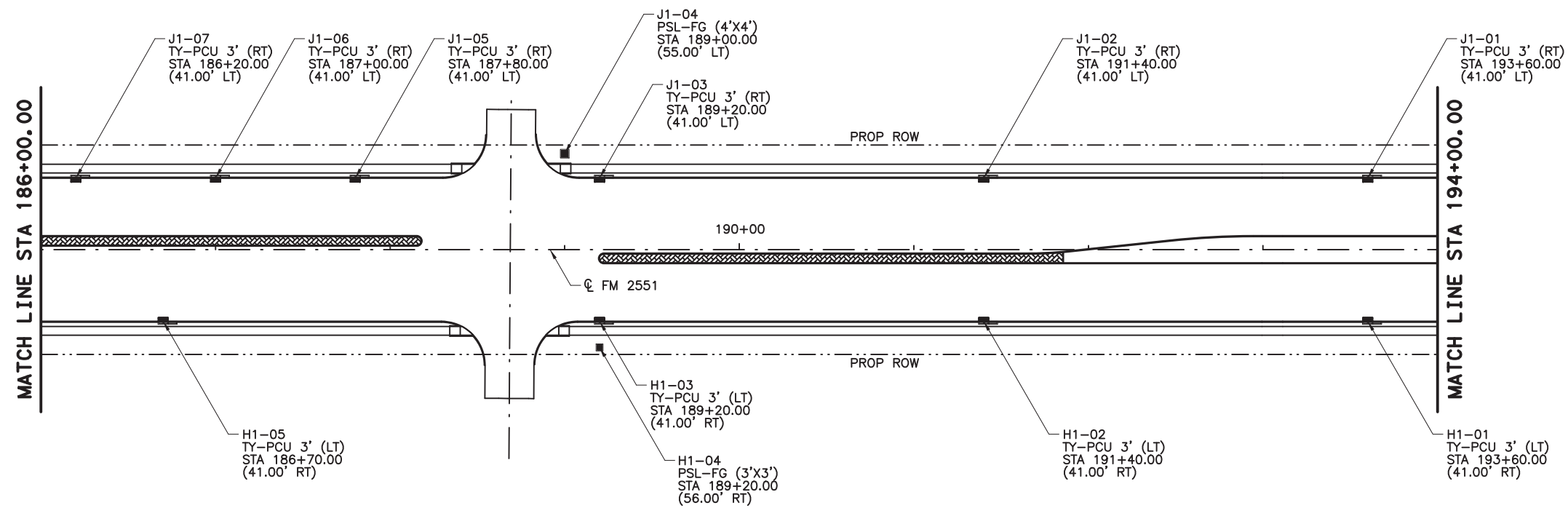
**Texas Department of Transportation**

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

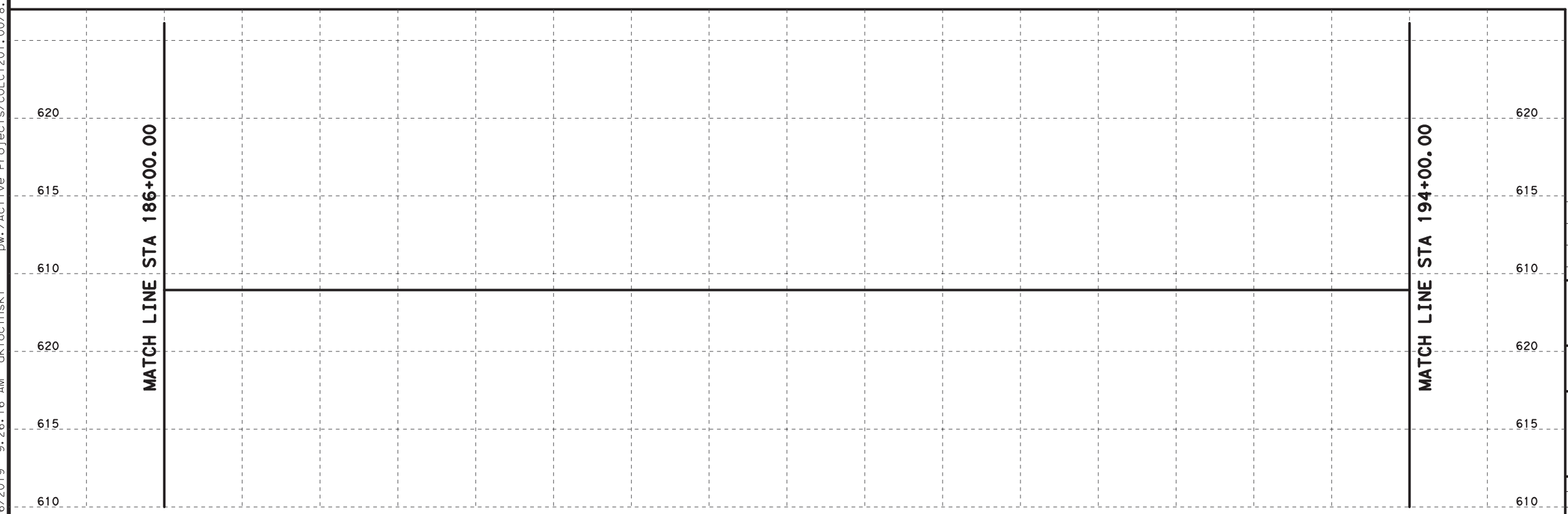
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Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01	042
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P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

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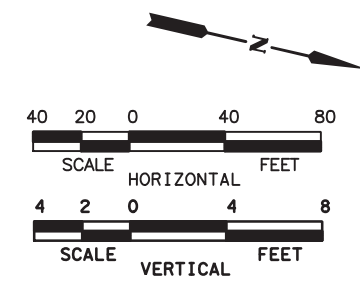
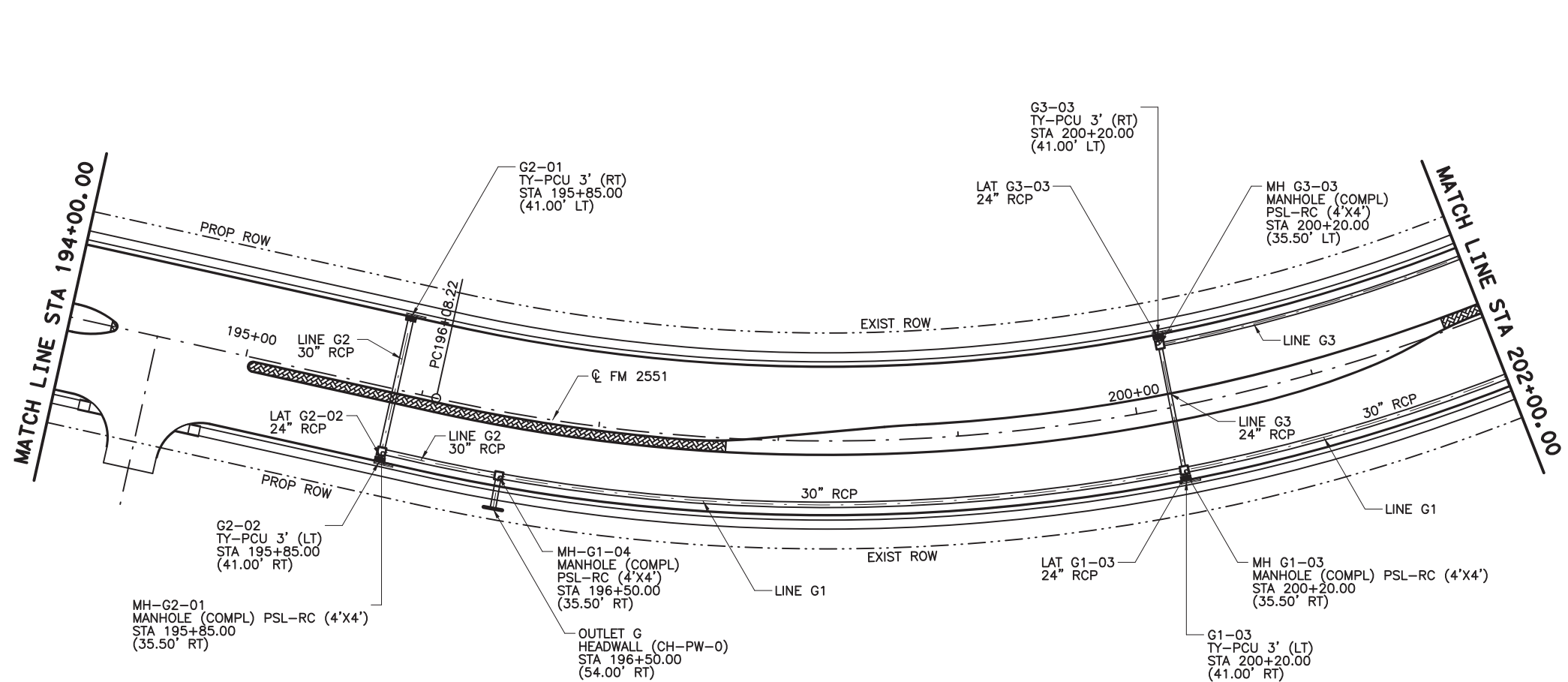
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

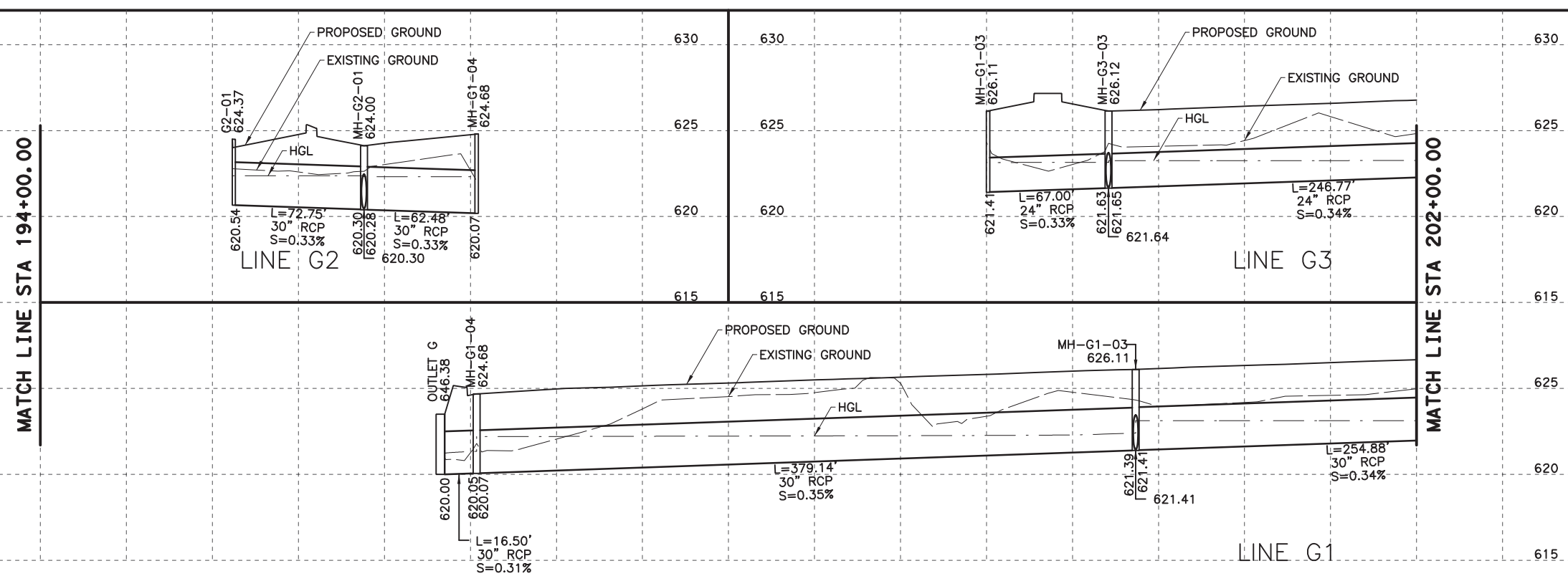
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Drawn:	CPY	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	CPY	18	COLLIN	2056	01 042
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Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

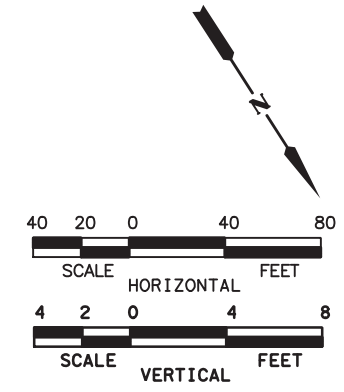
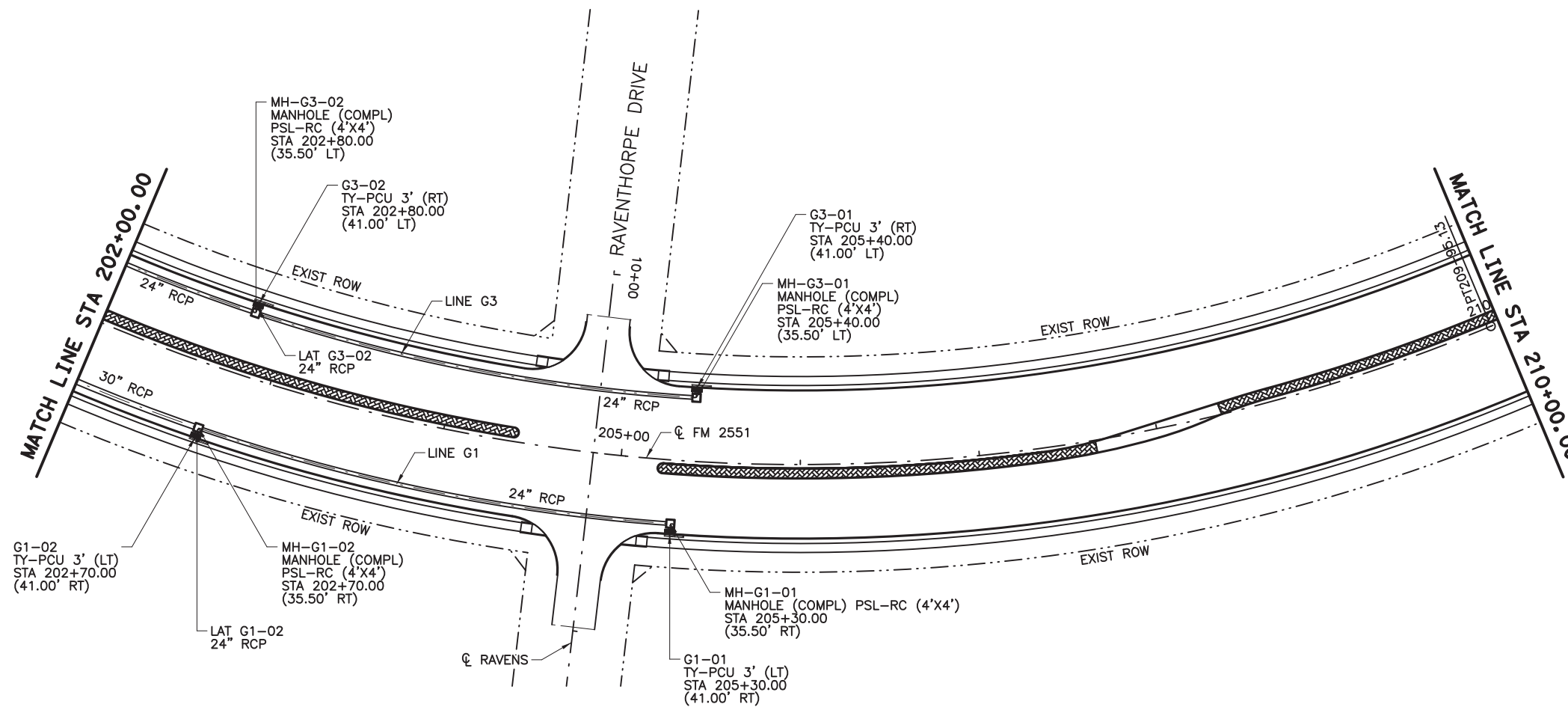
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TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

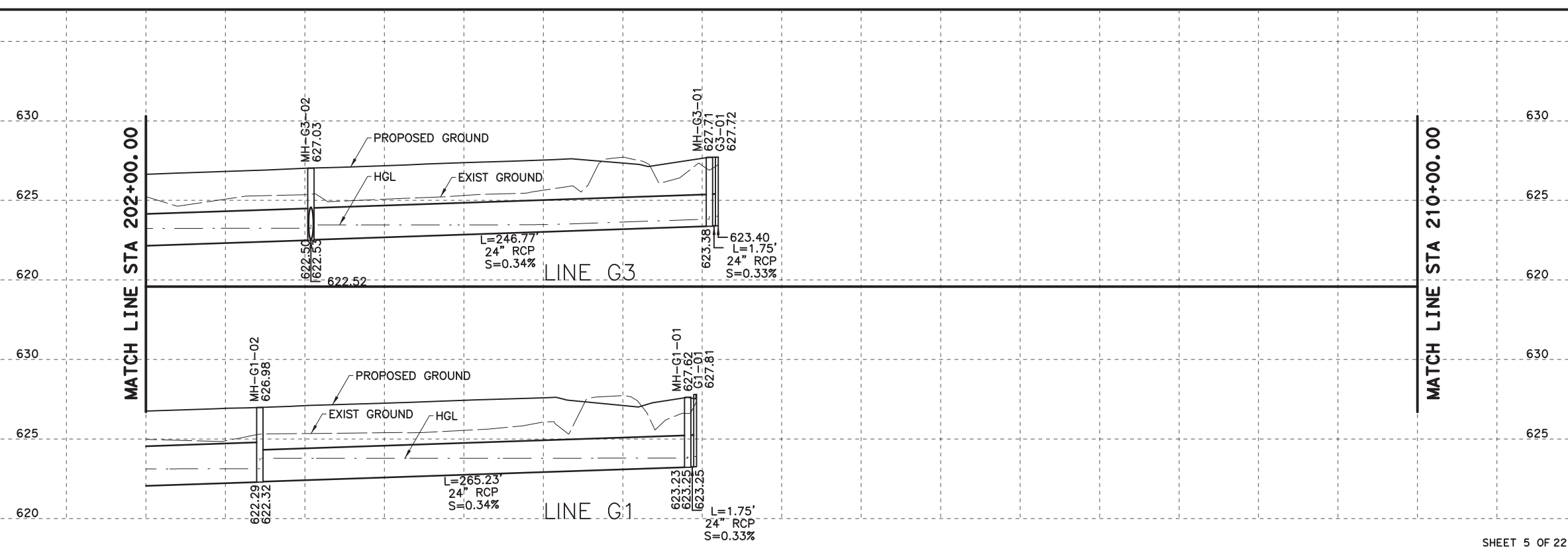
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Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

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TEXAS REGISTERED ENGINEERING FIRM, F-1741

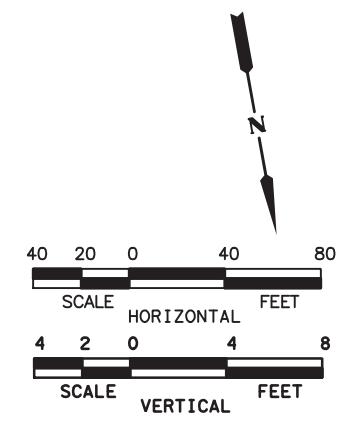
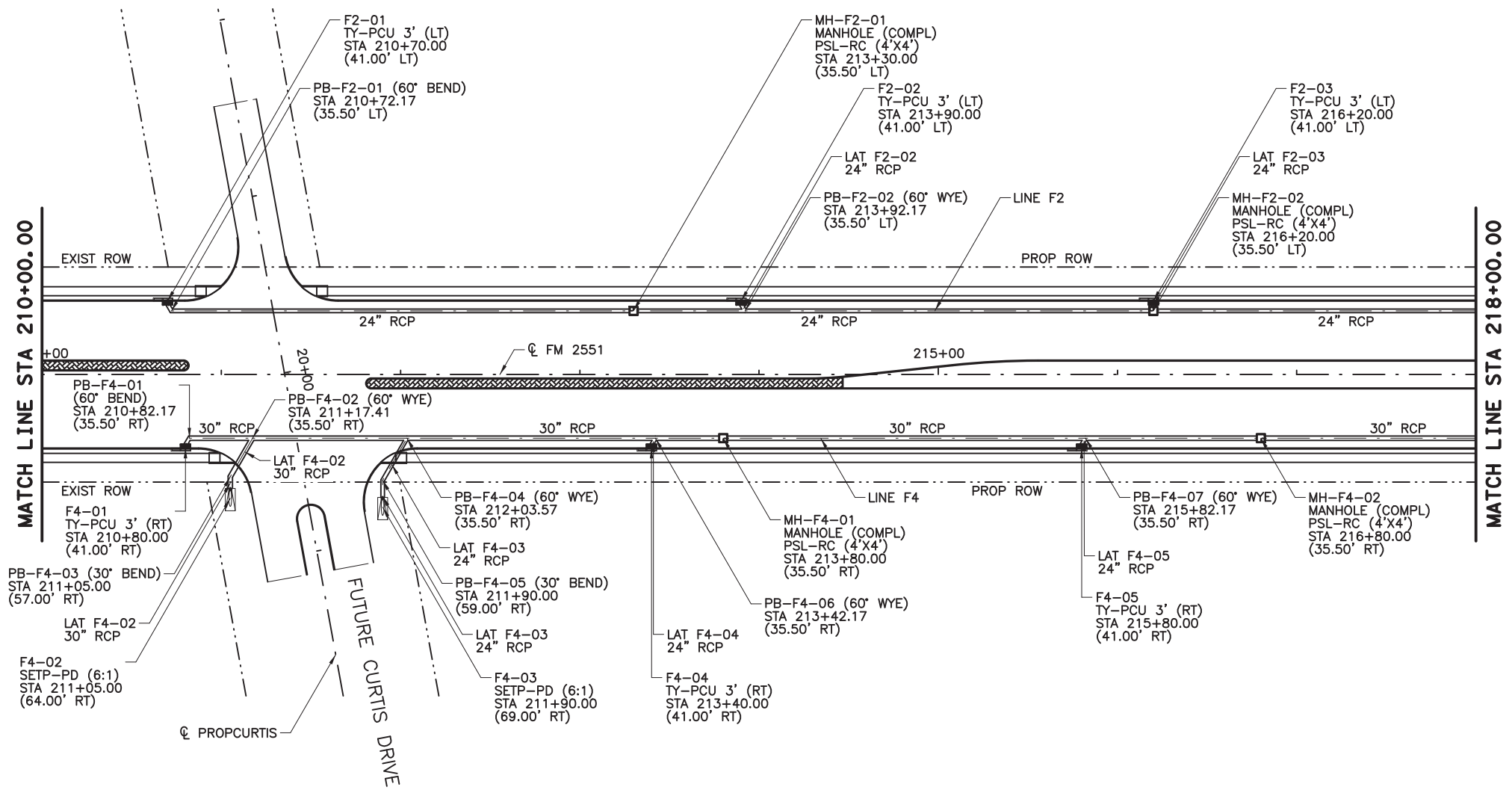
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
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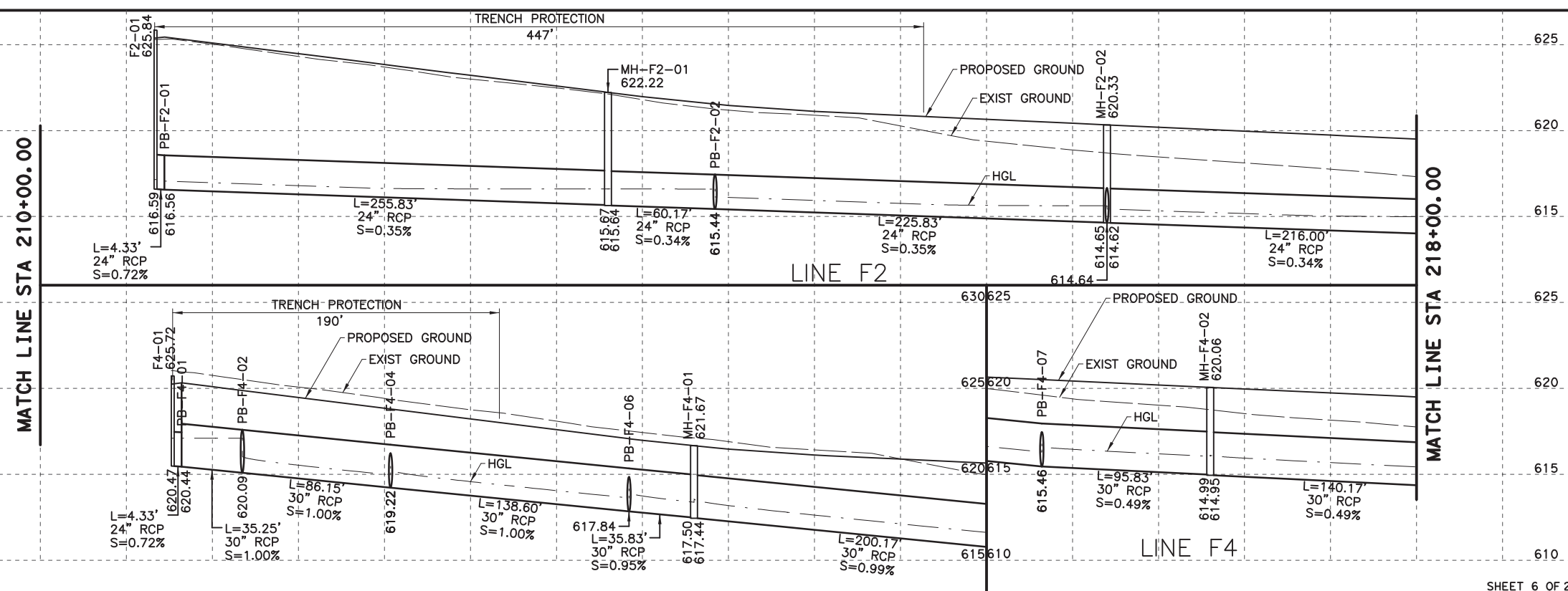
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**CP&Y**

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P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

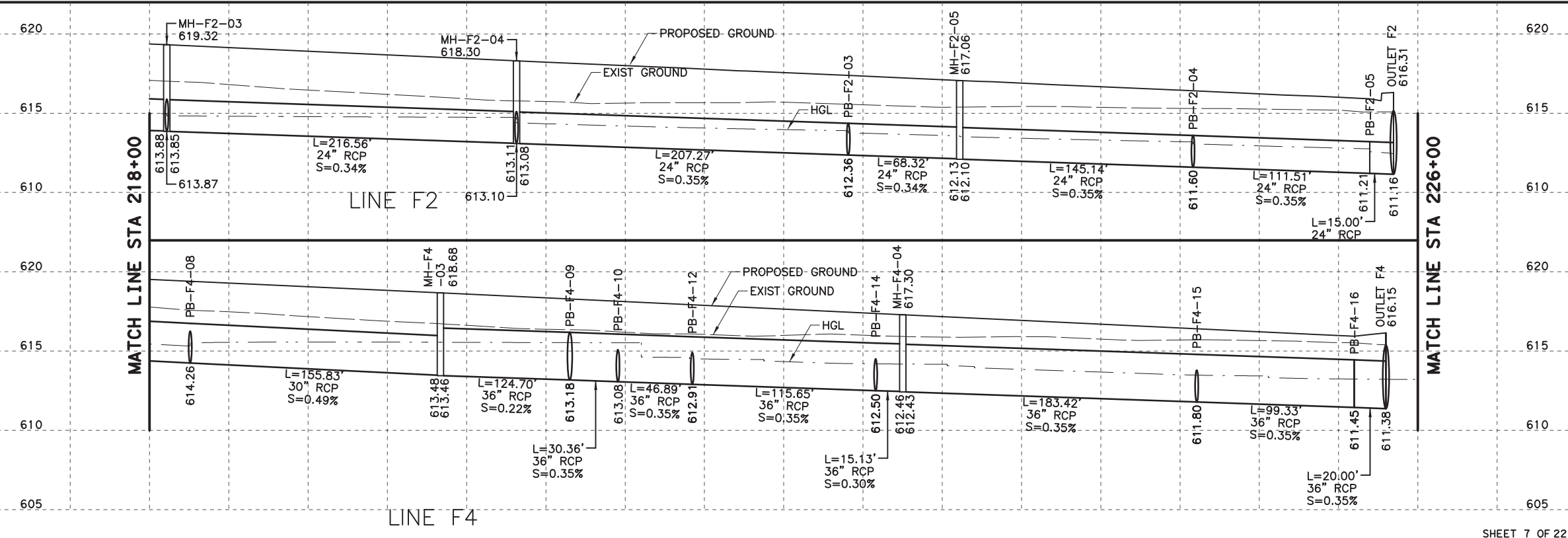
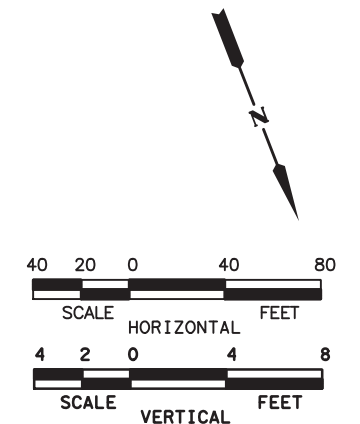
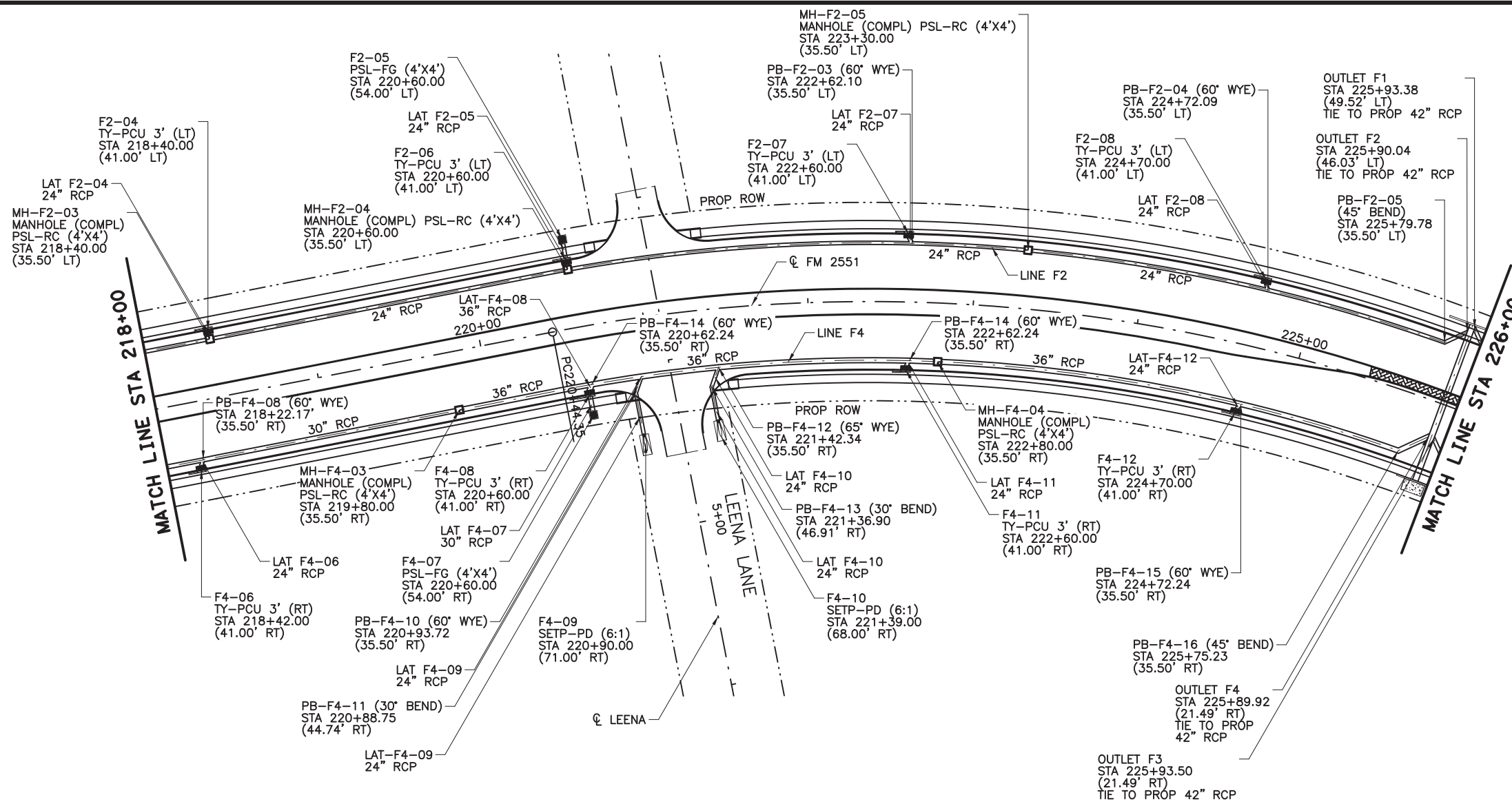
Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
STA 210+00.00 TO STA 218+00.00

Designed: CPY	FED. PROJ. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				245



8/16/2019 9:26:35 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp07.dgn



**100% PLANS ADEQUATE**  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

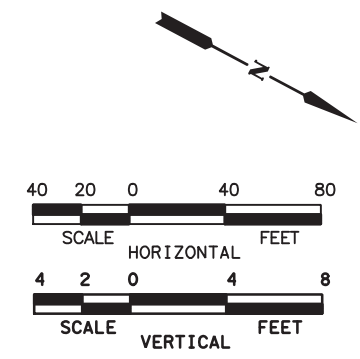
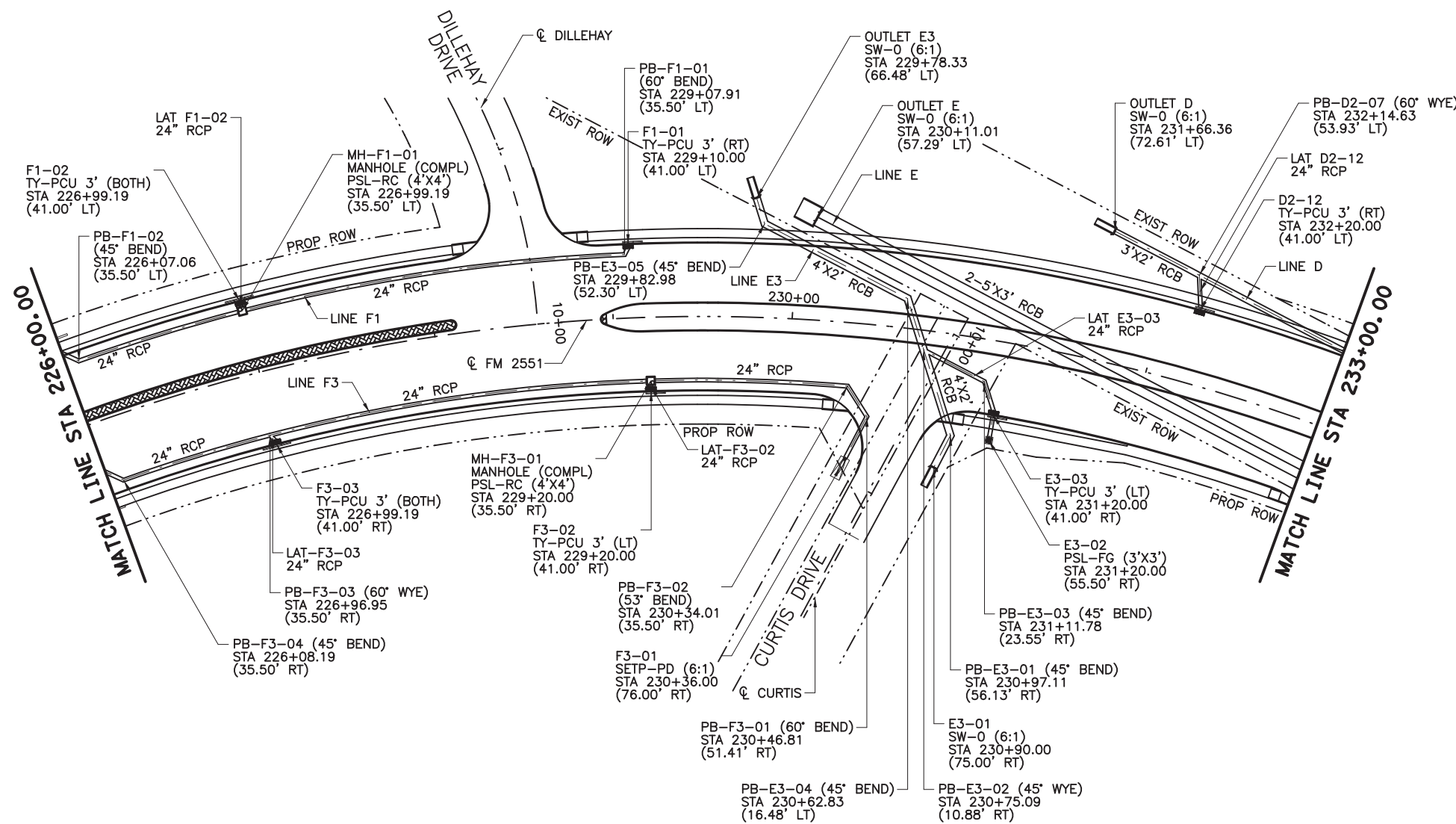
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

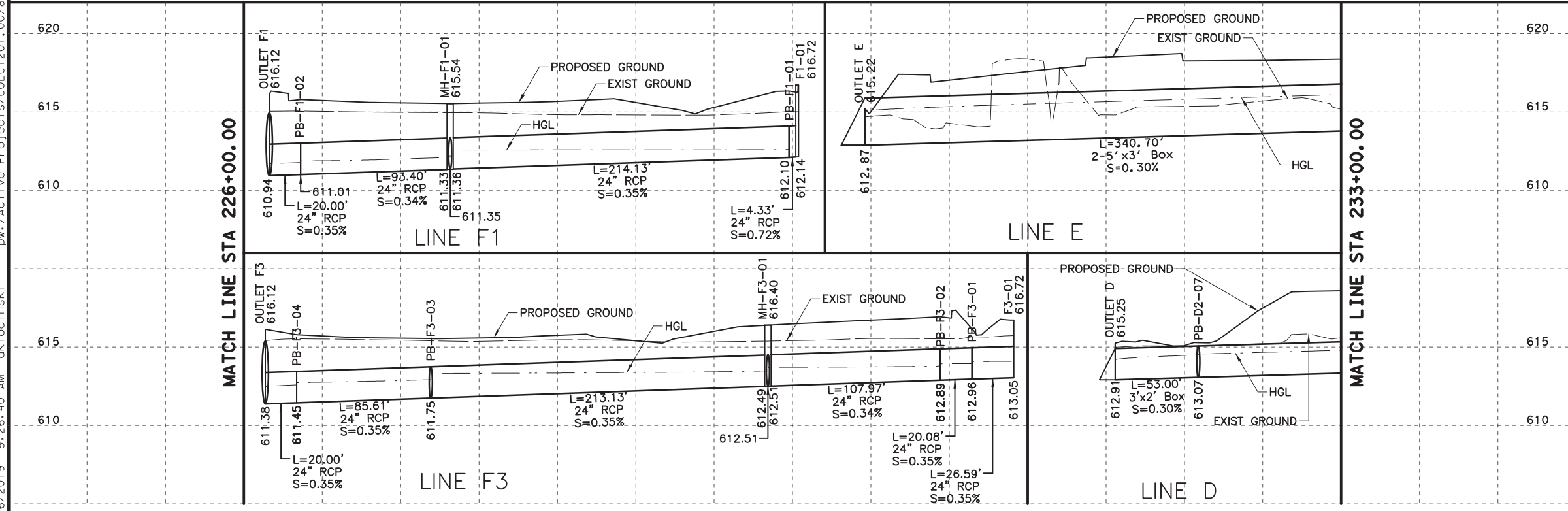
**DRAINAGE PLAN AND PROFILE**  
 STA 218+00.00 TO STA 226+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01 042	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO.	SHEET NO.	SHEET NO. 246

8/16/2019 9:26:40 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp08.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
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or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

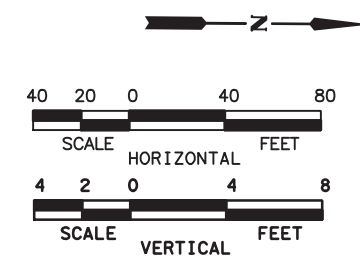
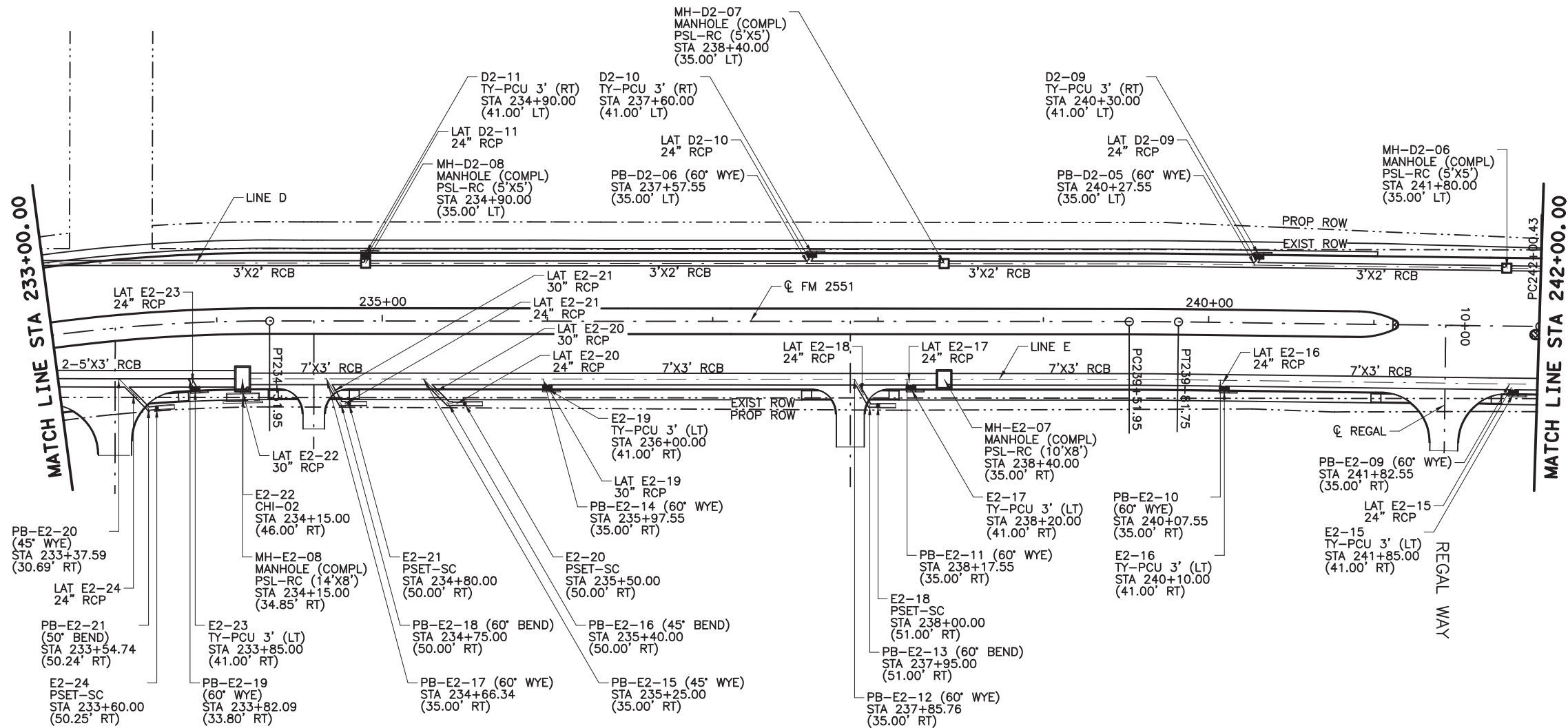
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
STA 226+00.00 TO STA 233+00.00

Designed: CPY	FED. PROJ. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 247		SHEET NO. 247

8/16/2019 9:26:45 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp09.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.

100% PLANS ADEQUATE  
 Not for construction, bidding, or permit purposes.  
**CP&Y**  
 Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

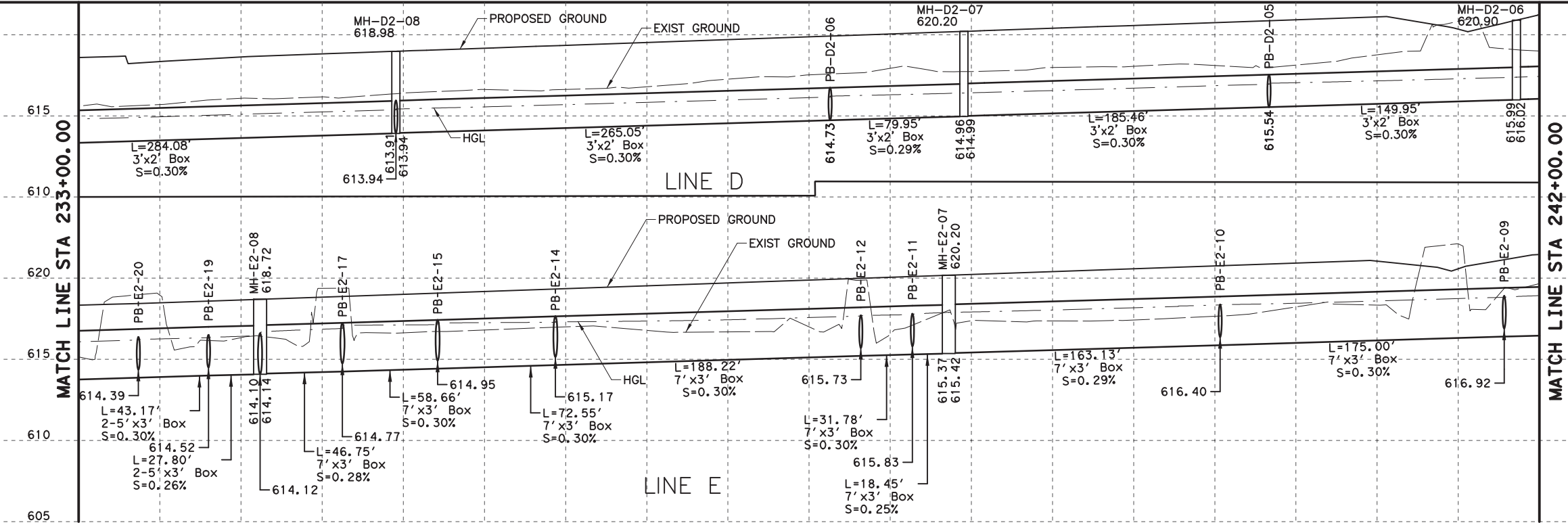
NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

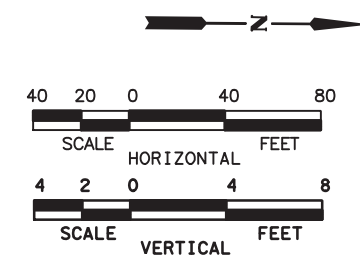
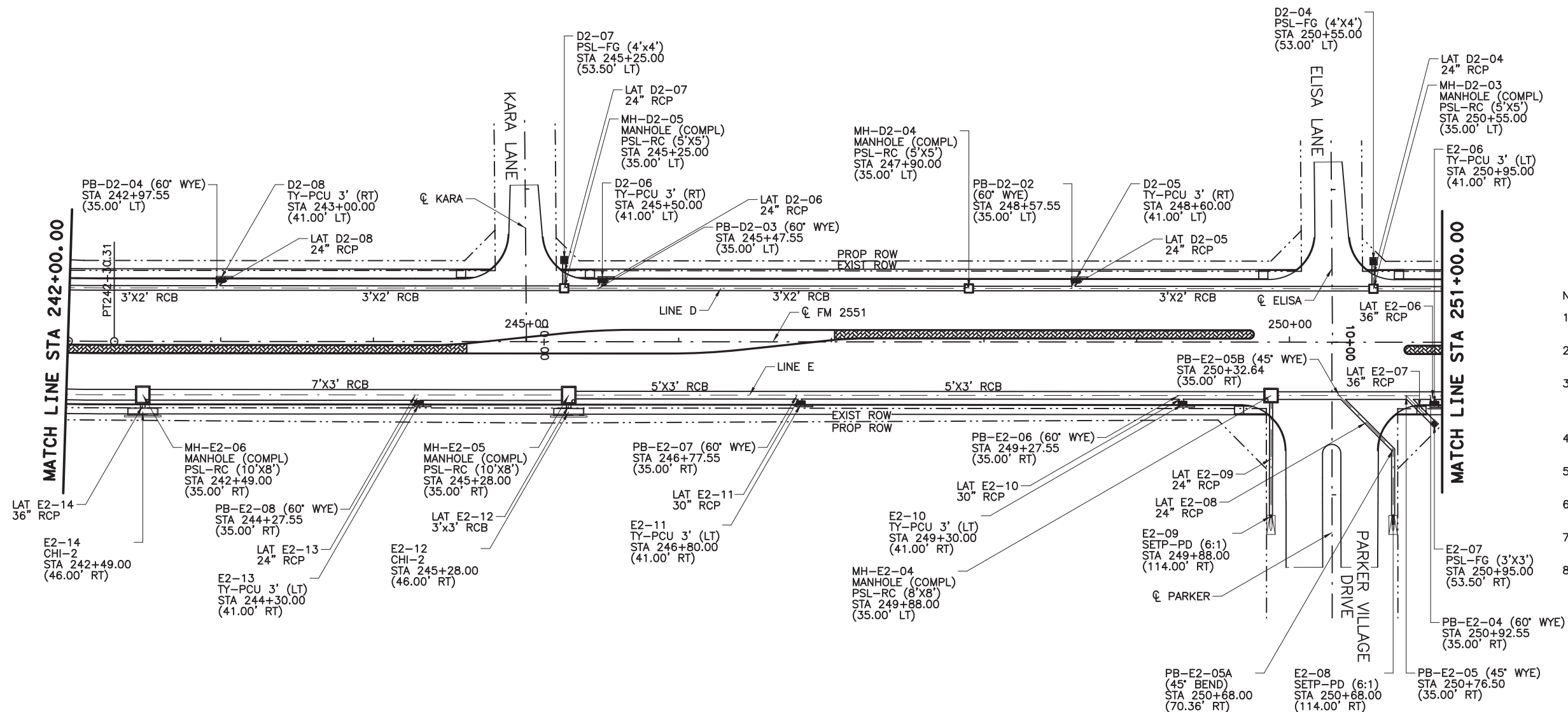
Texas Department of Transportation  
 FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
 STA 233+00.00 TO STA 242+00.00

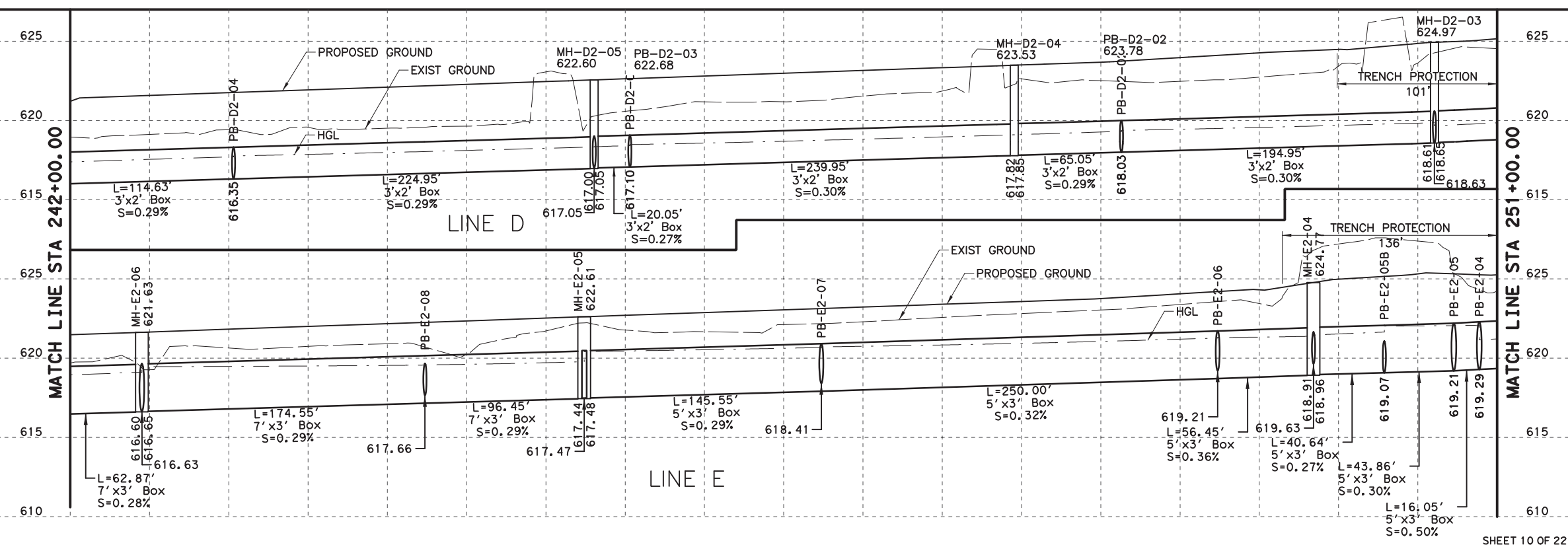
Designed: CPY	FED. PROJ. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				248



8/16/2019 9:26:50 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.3.06 Drainage/1201DRpp10.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

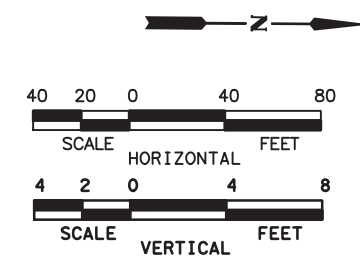
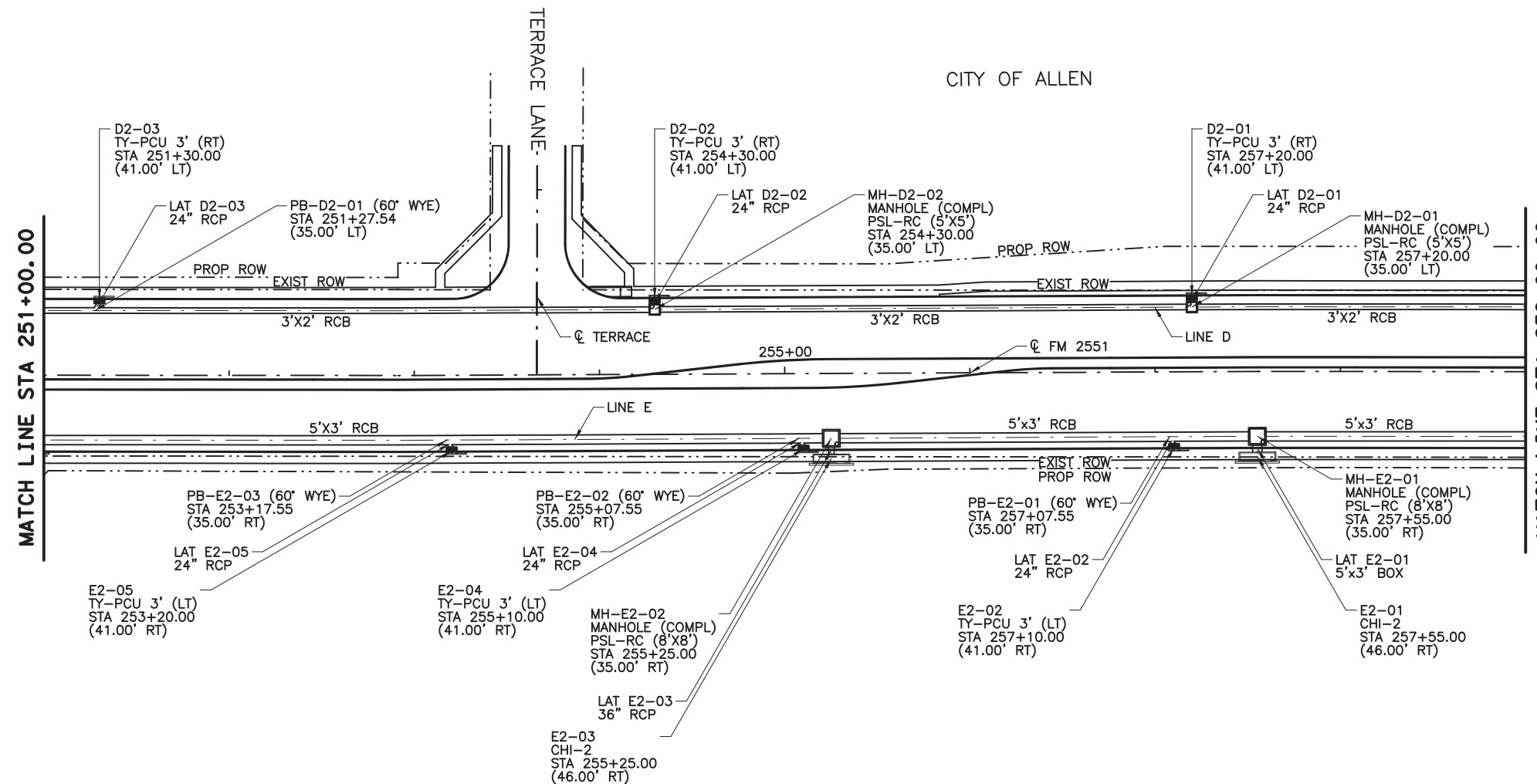
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

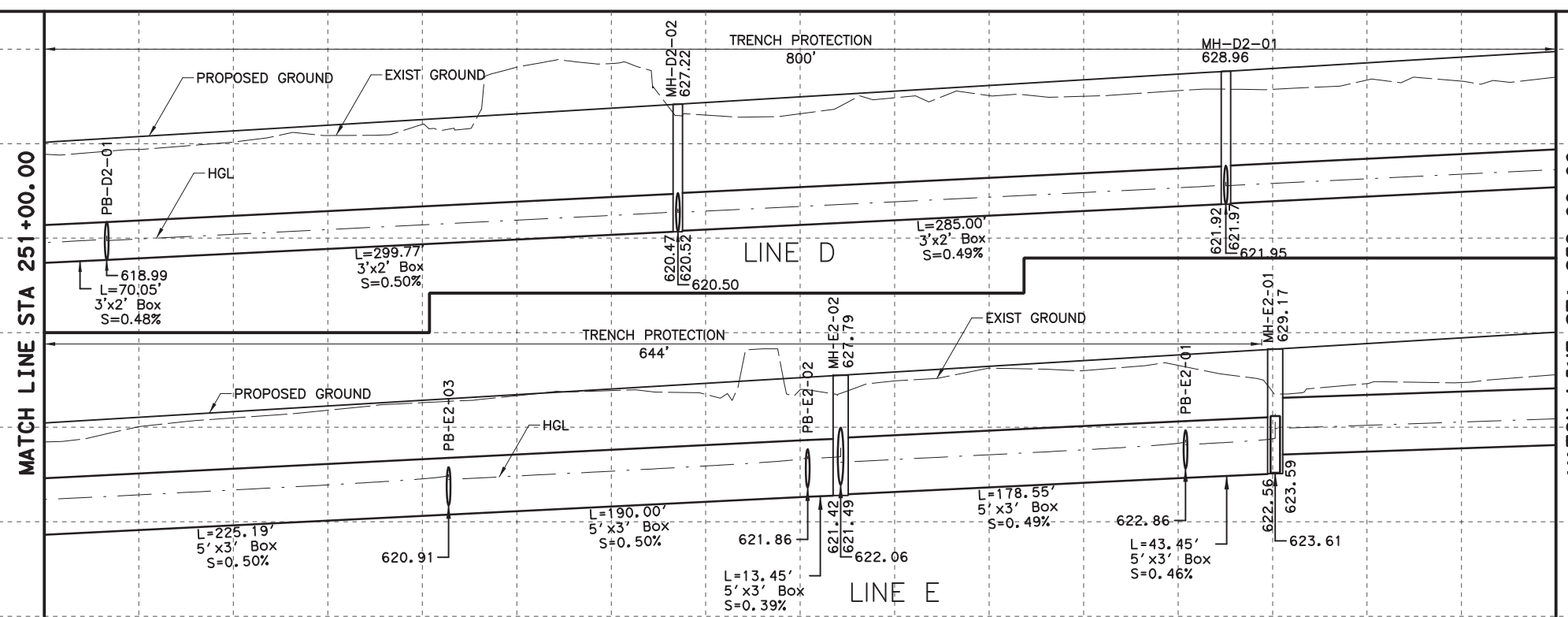
**DRAINAGE PLAN AND PROFILE**  
STA 242+00.00 TO STA 251+00.00

Designed: CPY	FED. RD. DIST. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				249

8/16/2019 9:26:55 AM aklocinski pw:/Active Projects/COLLIN/1201/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp11.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\odot$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
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or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

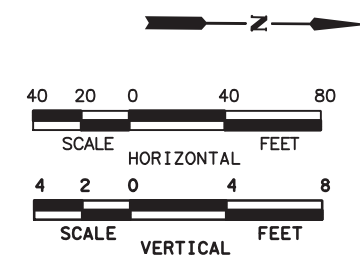
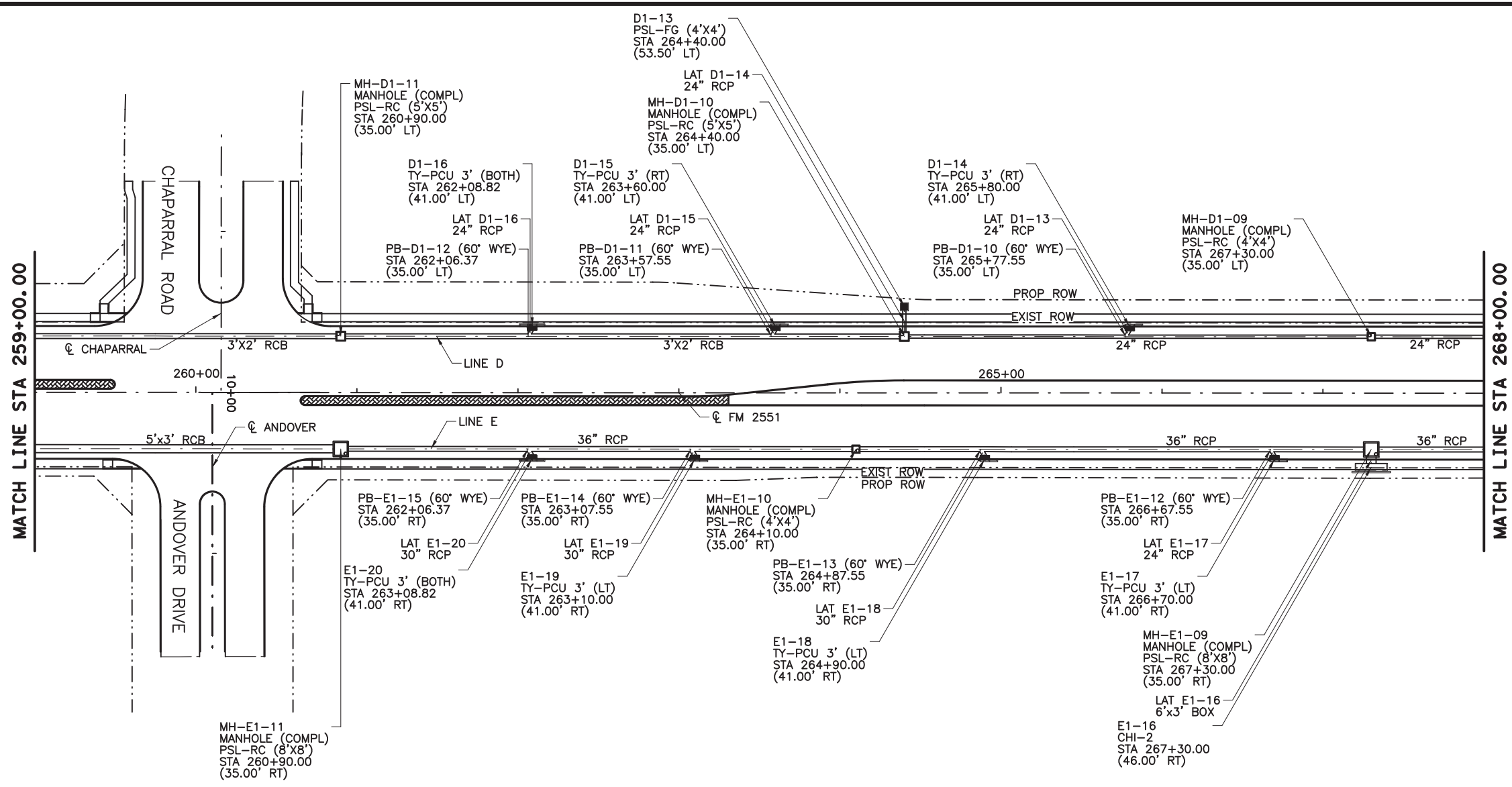
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

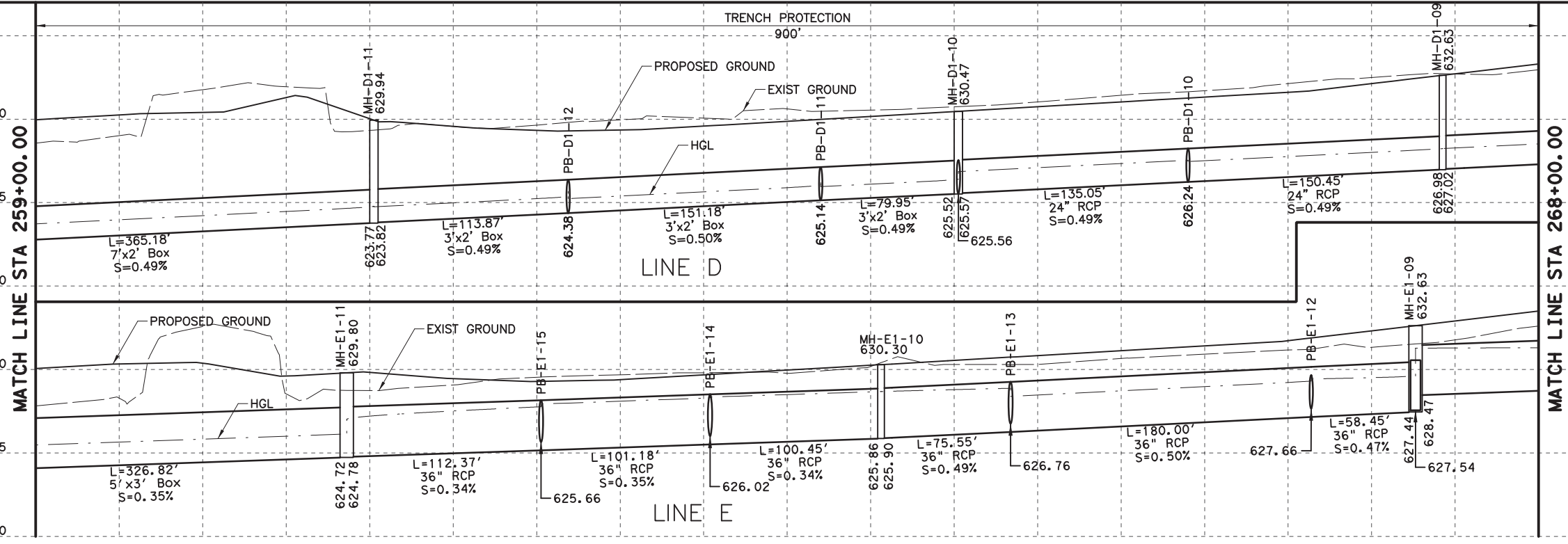
**PLAN AND PROFILE**  
STA 251+00.00 TO STA 259+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01 042	SHEET NO. 250

8/16/2019 9:27:00 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp12.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
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**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

TEXAS REGISTERED ENGINEERING FIRM, F-1741

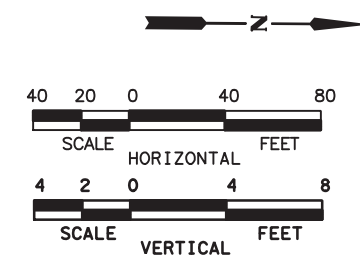
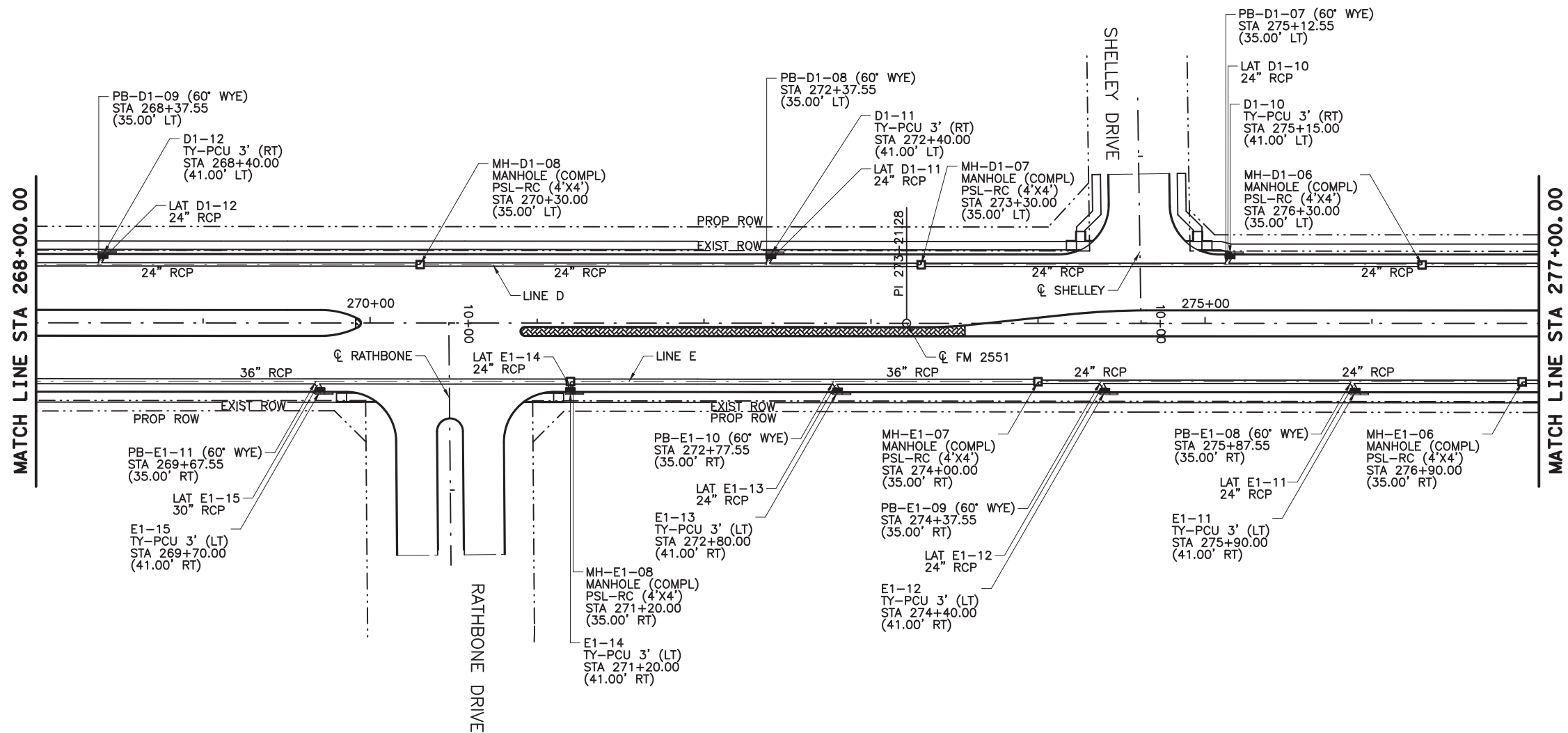
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
STA 259+00.00 TO STA 268+00.00

Designed: CPY	FED. PROJ. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO.	SHEET NO.	SHEET NO. 251

8/16/2019 9:27:06 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp13.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\bar{C}$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.

100% PLANS ADEQUATE  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

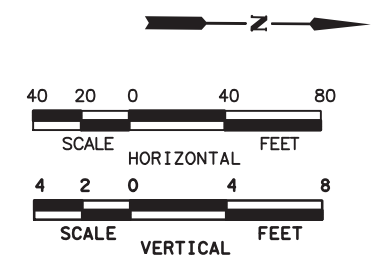
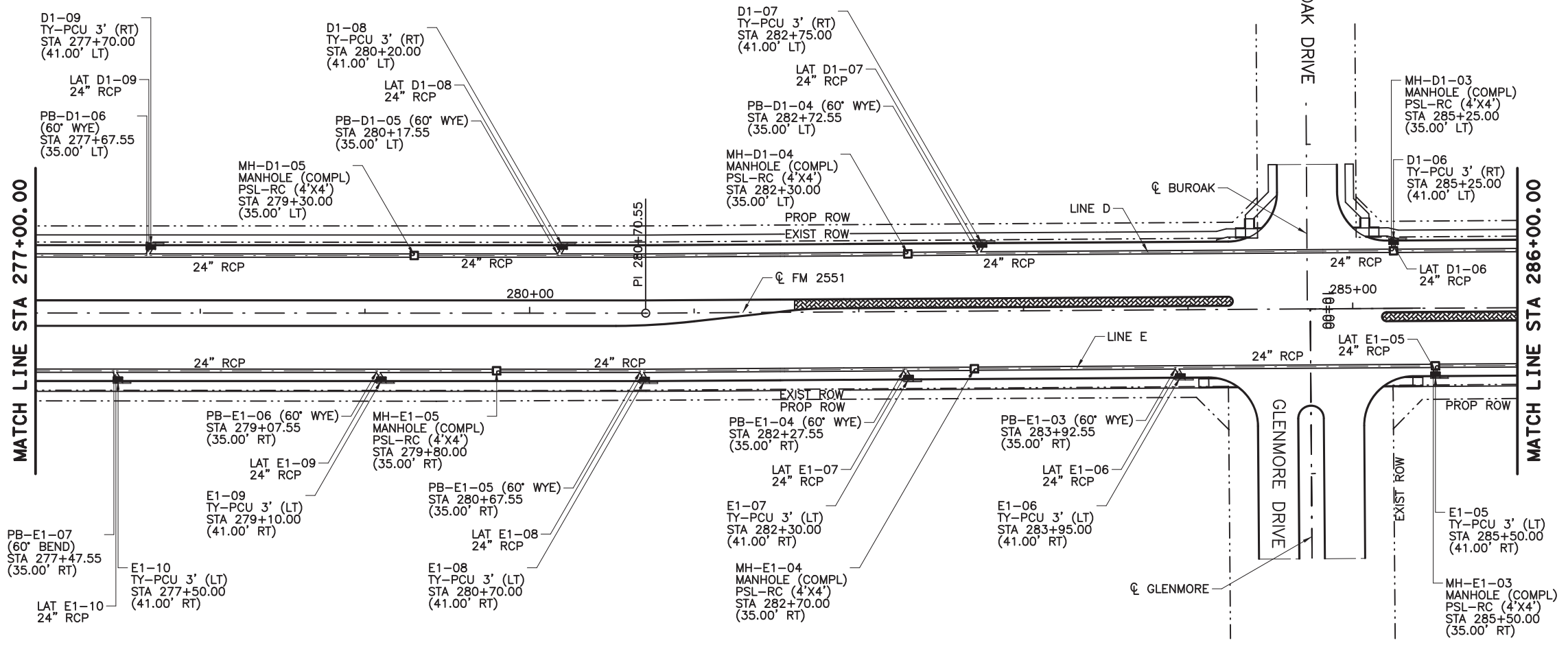
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

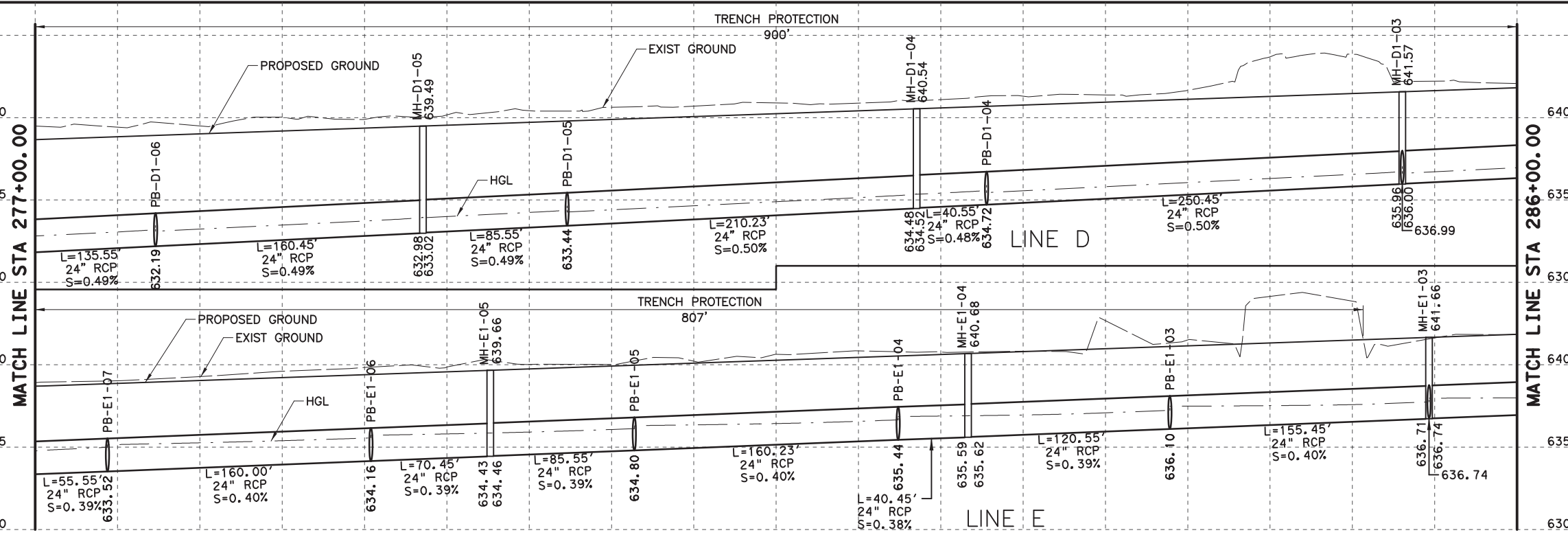
**DRAINAGE PLAN AND PROFILE**  
STA 268+00.00 TO STA 277+00.00

Designed	Checked	Drawn	Checked	FED. PROJ. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CPY	CPY	CPY	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
				18	COLLIN	2056 01 042	252

8/16/2019 9:27:11 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.3.06 Drainage/1201DRpp14.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM CL FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

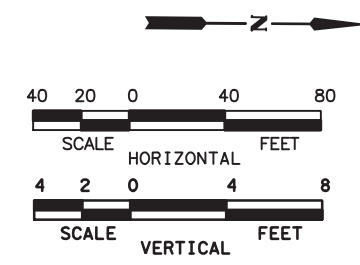
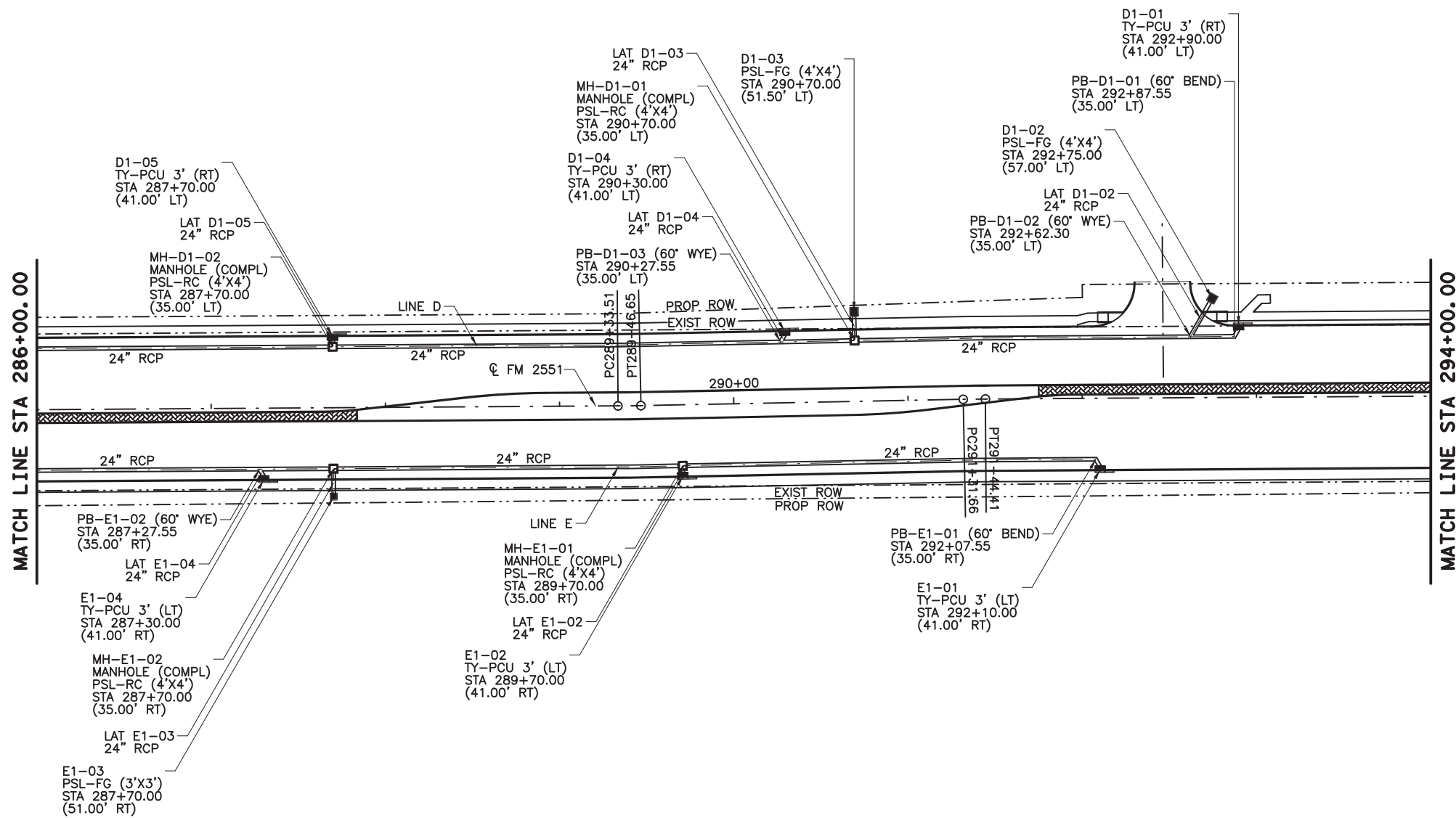
Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
STA 277+00.00 TO STA 286+00.00

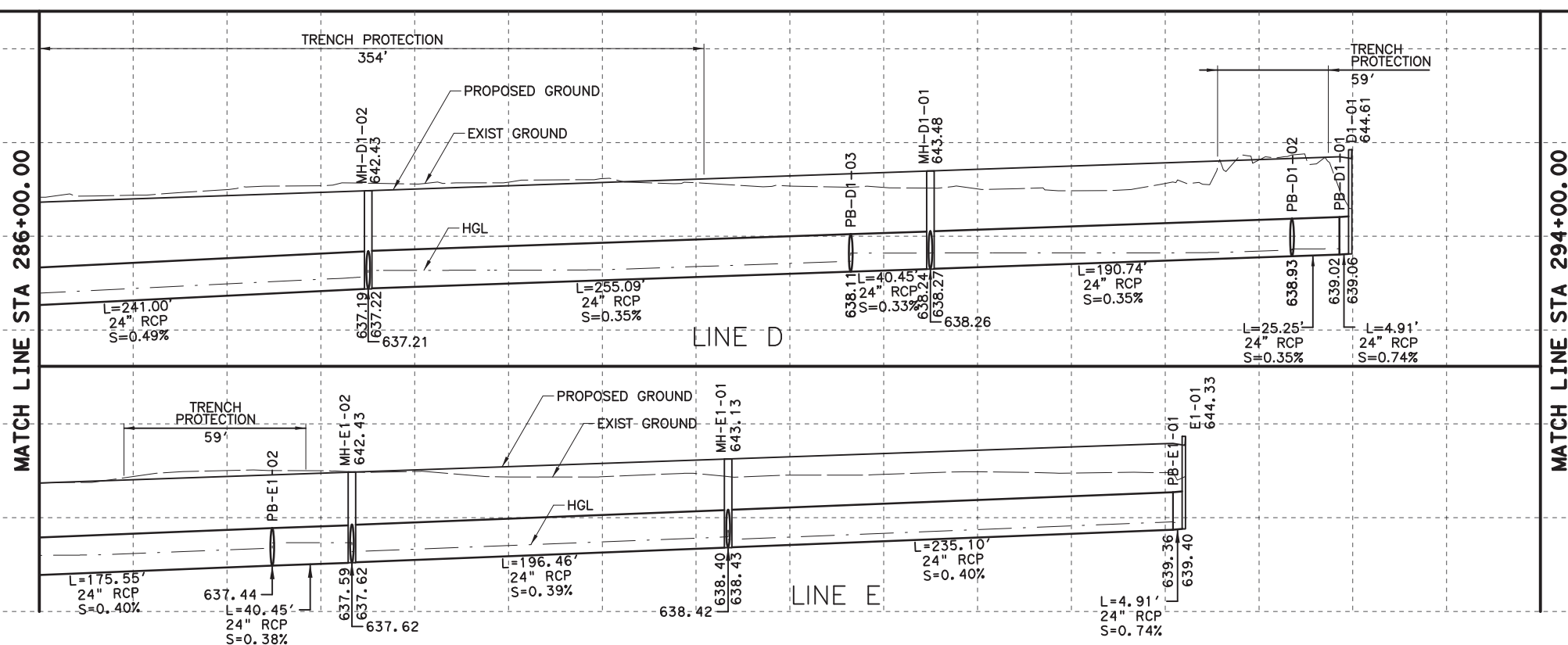
Designed: CPY	FED. PROJ. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				253



8/16/2019 9:27:16 AM aklocinski pw:/Active Projects/COLLIN/201/00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp15.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\text{CL FM2551}$  UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
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**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

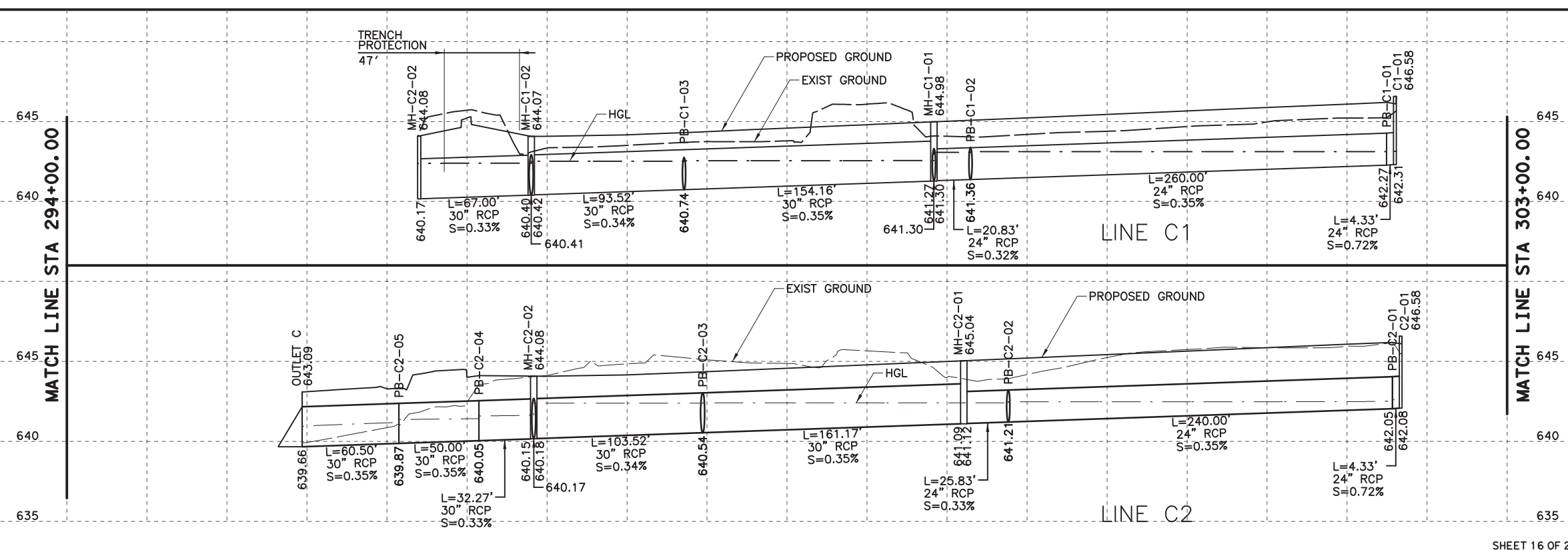
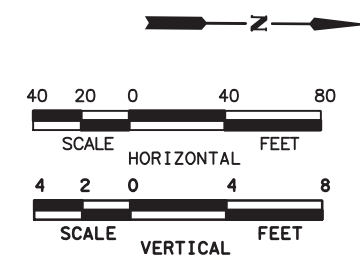
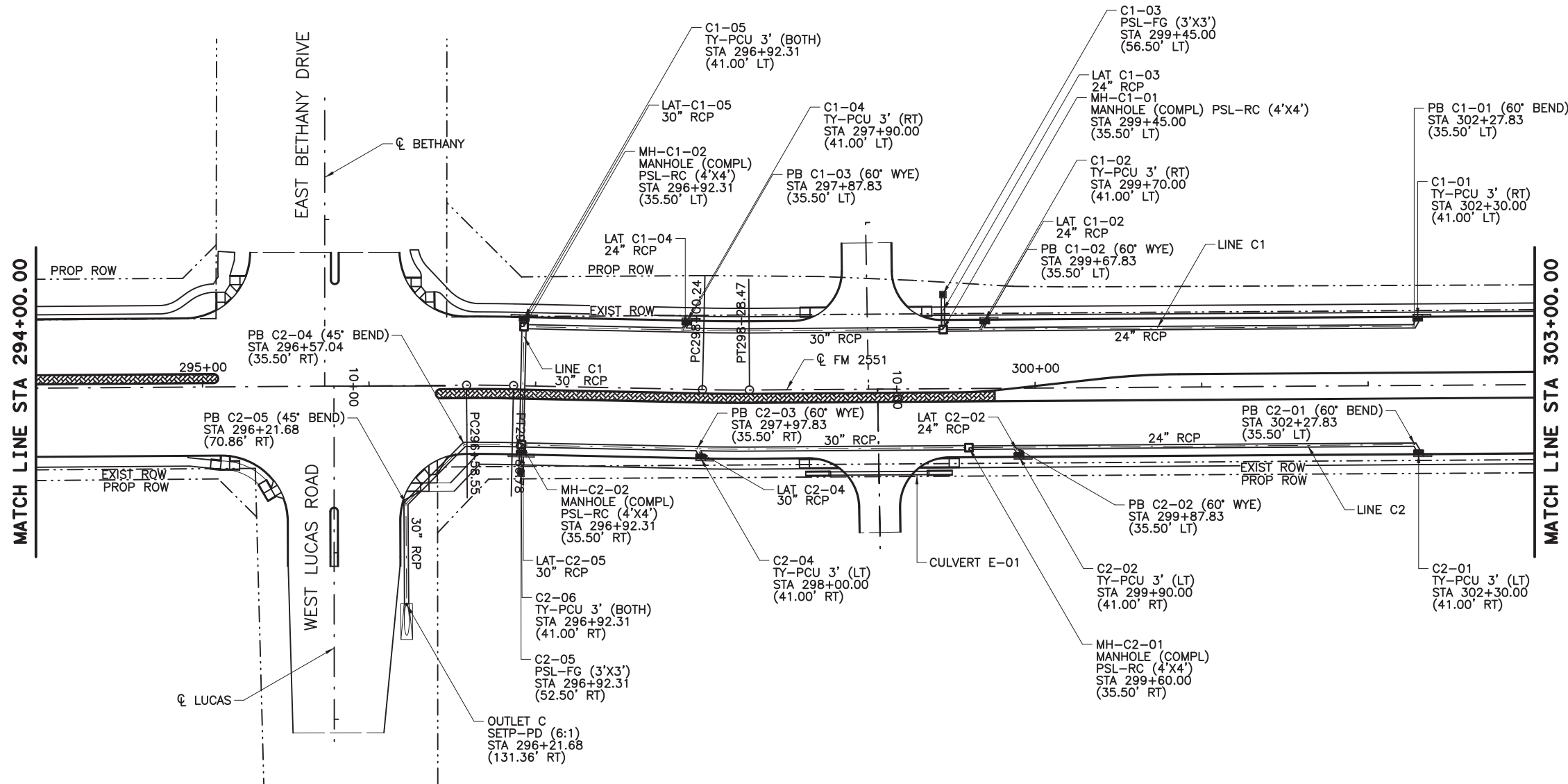
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
STA 286+00.00 TO STA 294+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 042	SHEET NO. 254		

8/16/2019 9:27:21 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp16.dgn



100% PLANS ADEQUATE  
 Not for construction, bidding,  
 or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

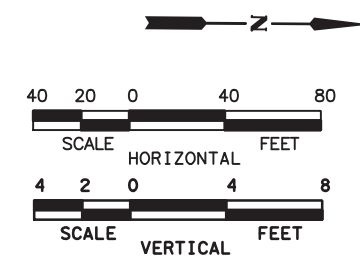
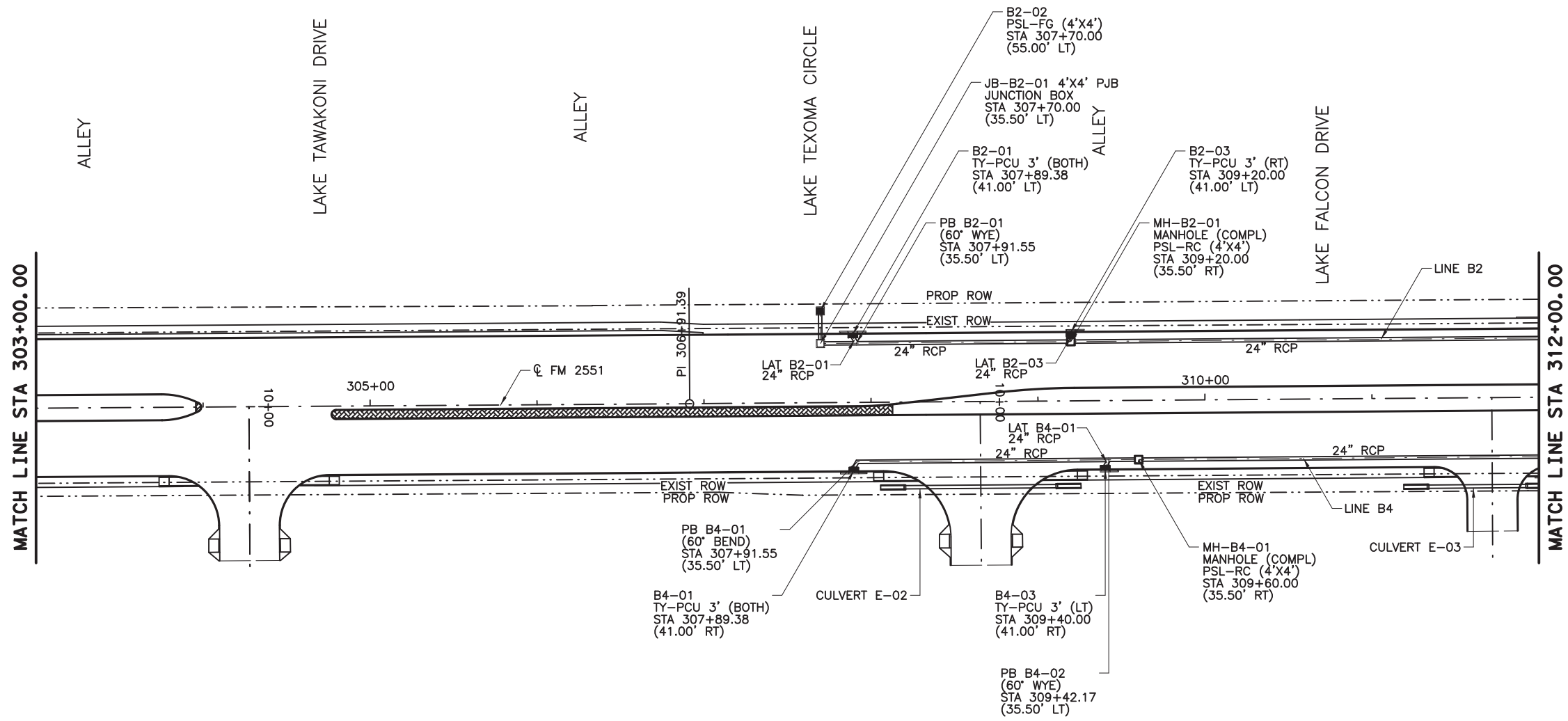
**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
 FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

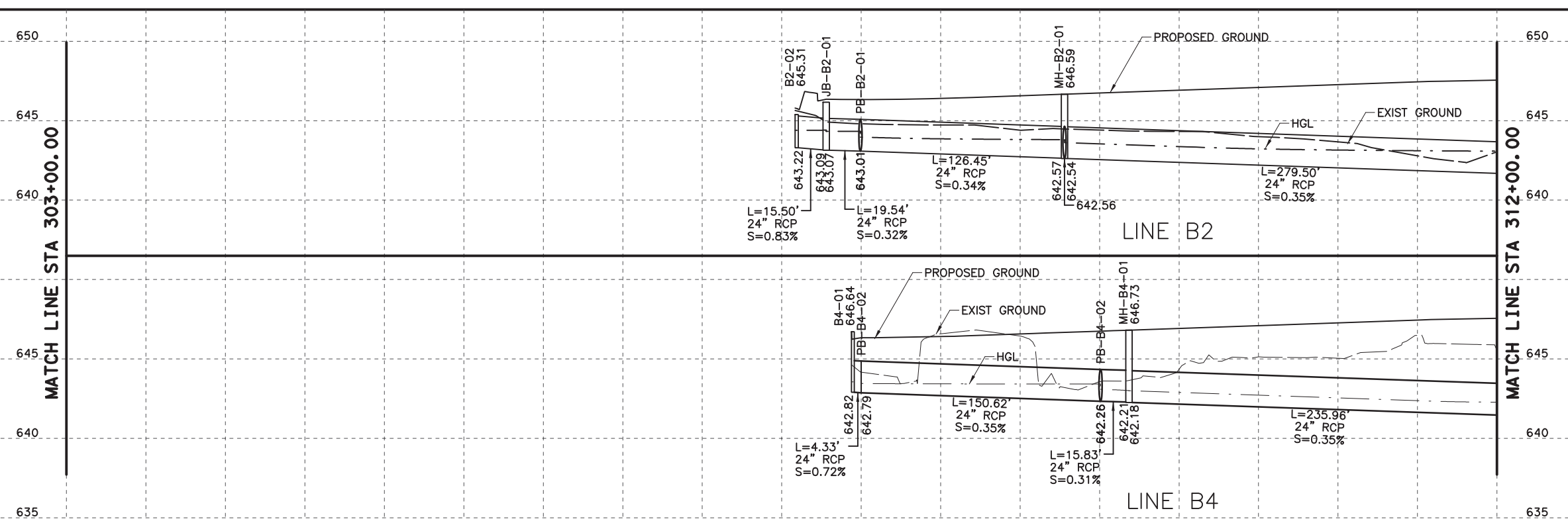
**DRAINAGE PLAN AND PROFILE**  
 STA 294+00.00 TO STA 303+00.00

Designed: CPY	FED. PROJ. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO. 255

8/16/2019 9:27:26 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp17.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

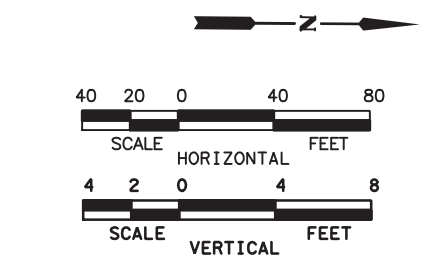
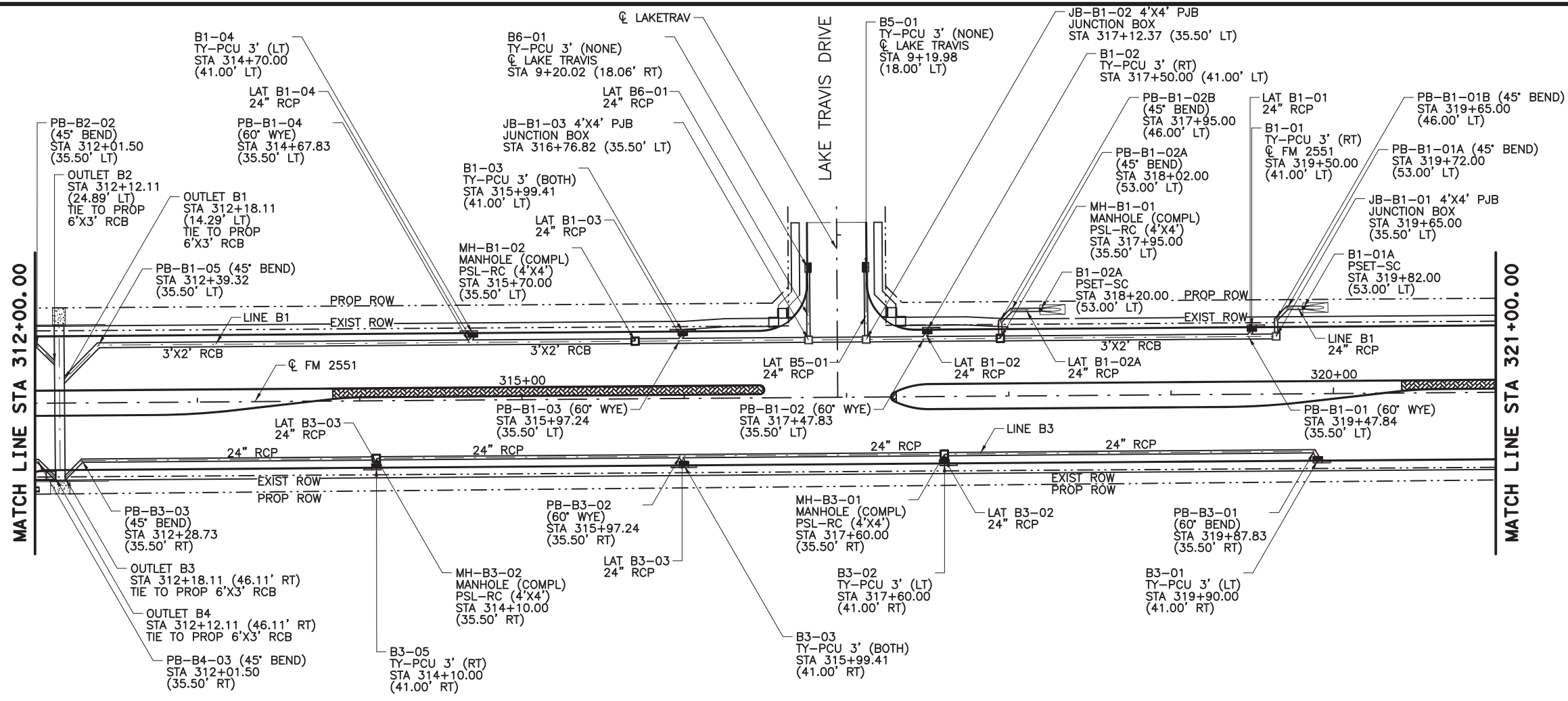
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

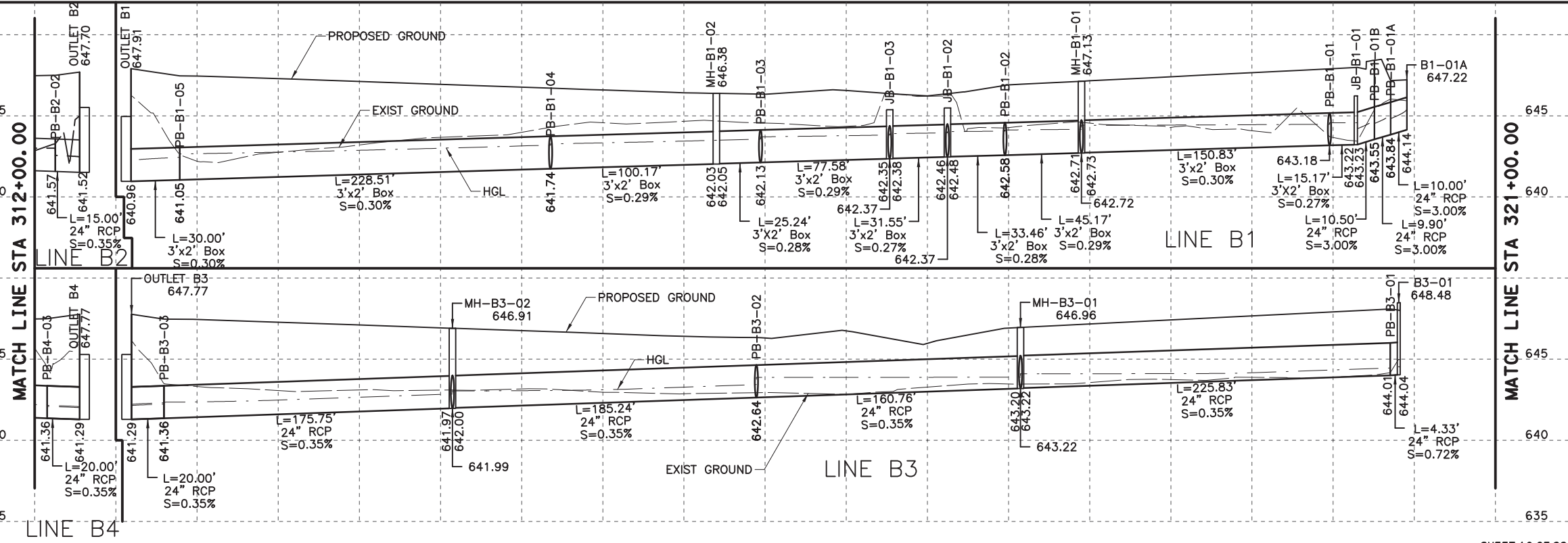
**DRAINAGE PLAN AND PROFILE**  
STA 303+00.00 TO STA 312+00.00

Designed: CPY	FED. RD. DIST. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				256

8/16/2019 9:27:31 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp18.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\bar{C}$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



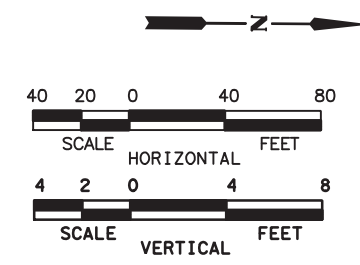
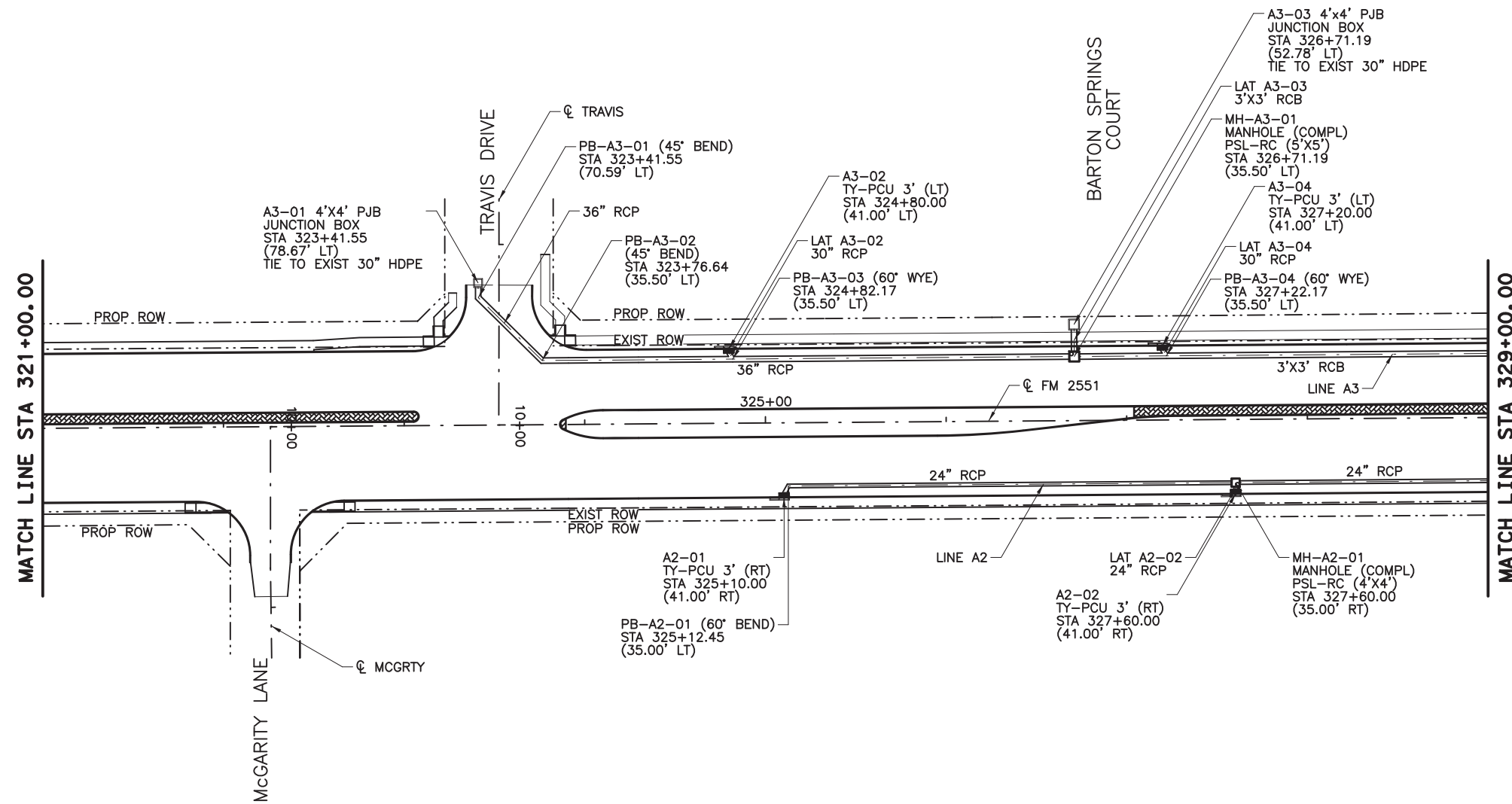
**100% PLANS ADEQUATE**  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

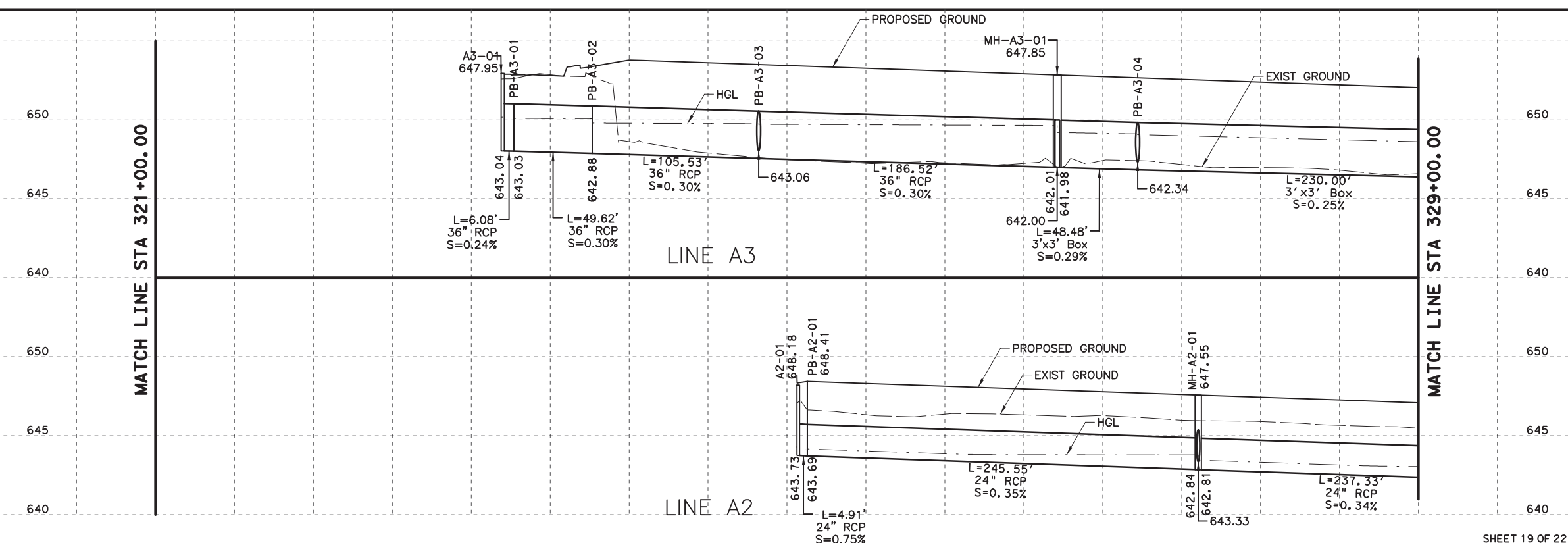
Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE
 TEXAS REGISTERED ENGINEERING FIRM, F-1741  FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET) FM 2551 (MURPHY ROAD) <b>DRAINAGE PLAN AND PROFILE</b> <b>STA 312+00.00 TO STA 321+00.00</b>			
Designed:	CPY	FED. PROJ. NO.:	STATE:
Checked:	CPY	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Drawn:	CPY	COUNTY:	CONTROL SECTION NO.:
Checked:	CPY	COUNTY:	JOB NO.:
		COUNTY:	SHEET NO.:

8/16/2019 9:27:36 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp19.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM CL FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

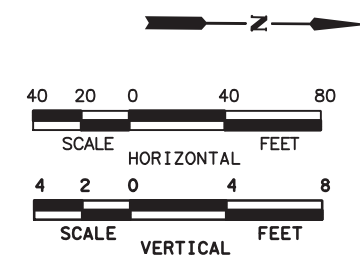
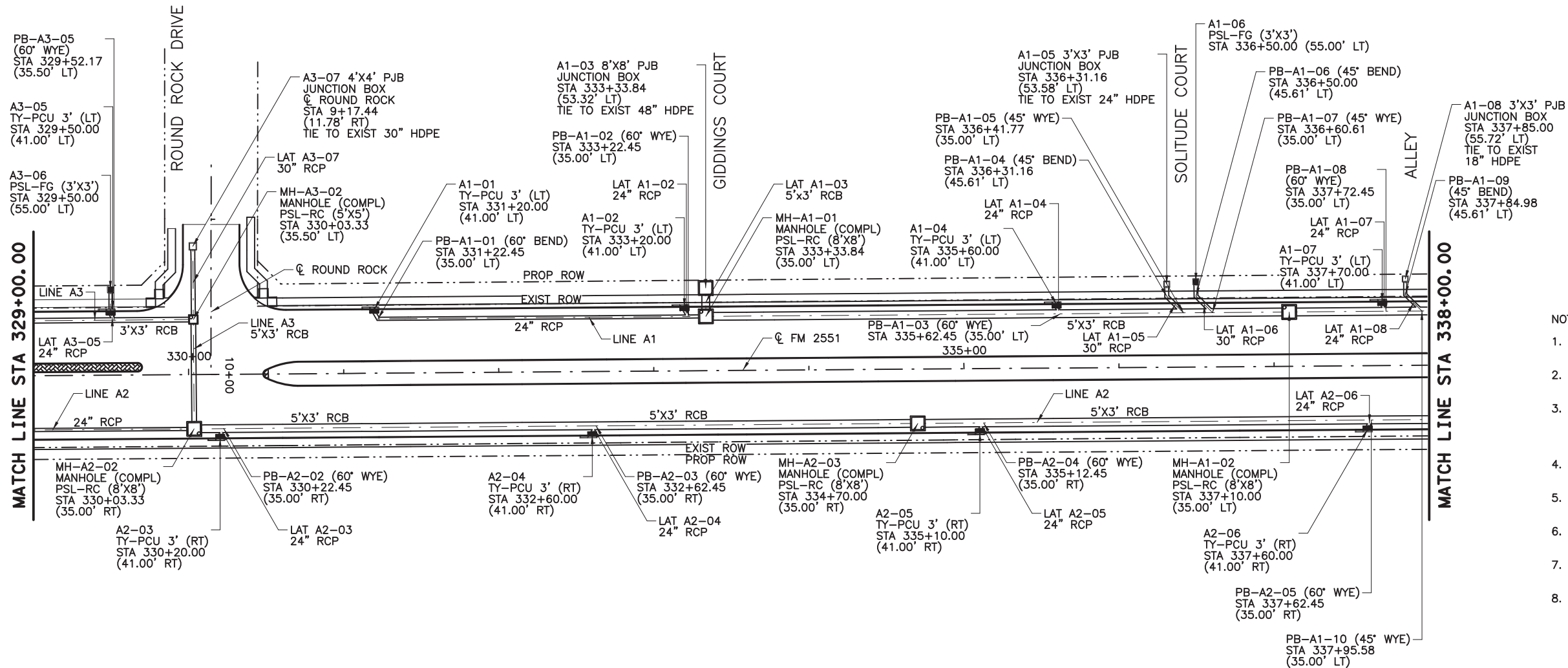
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
STA 321+00.00 TO STA 329+00.00

Designed: CPY	FED. RD. DIST. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO.:
				258

8/16/2019 9:27:41 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRpp20.dgn



- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\bar{C}$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
  4. REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  5. REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.

100% PLANS ADEQUATE  
Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741

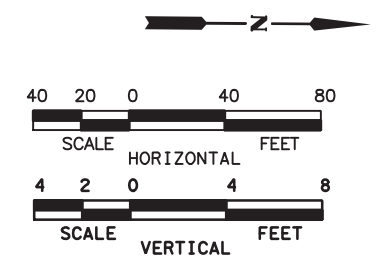
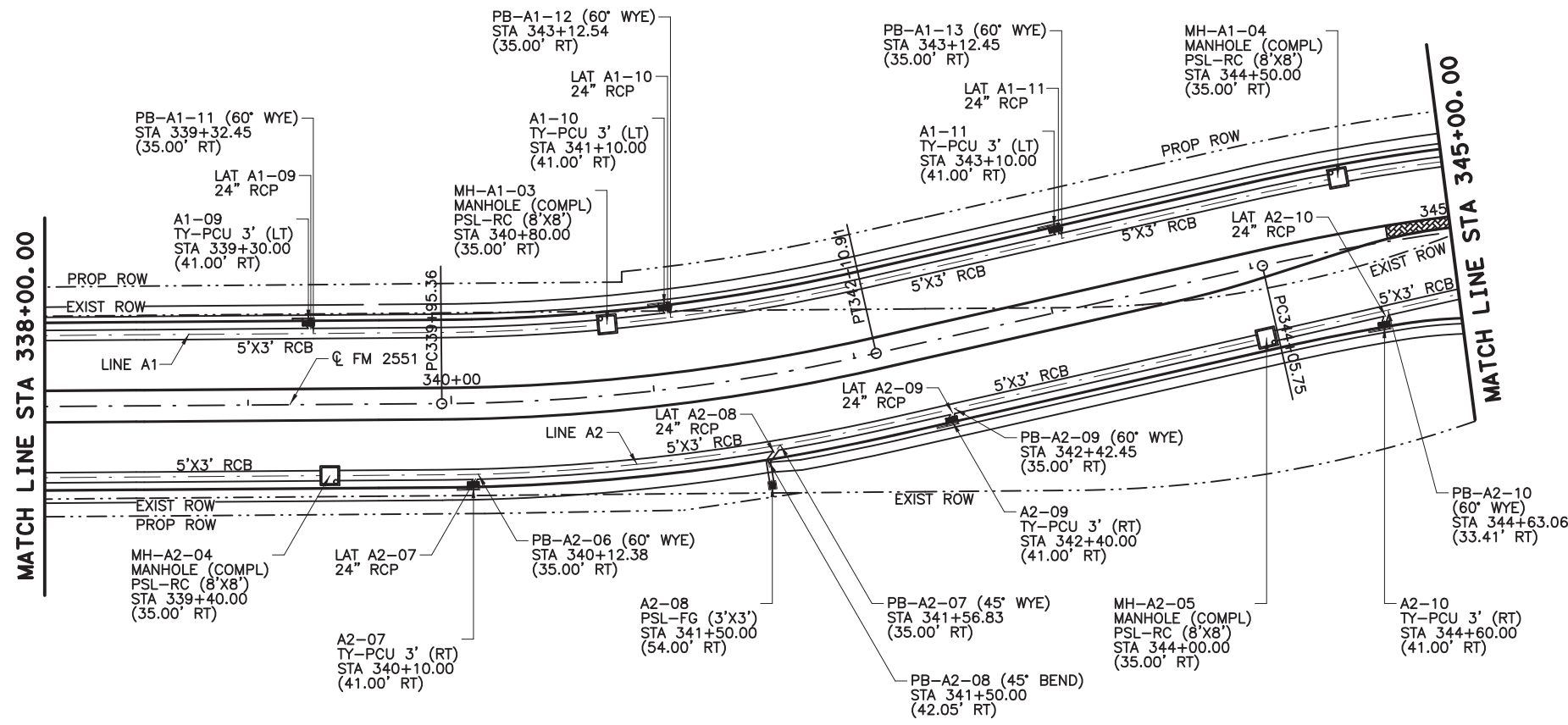


FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

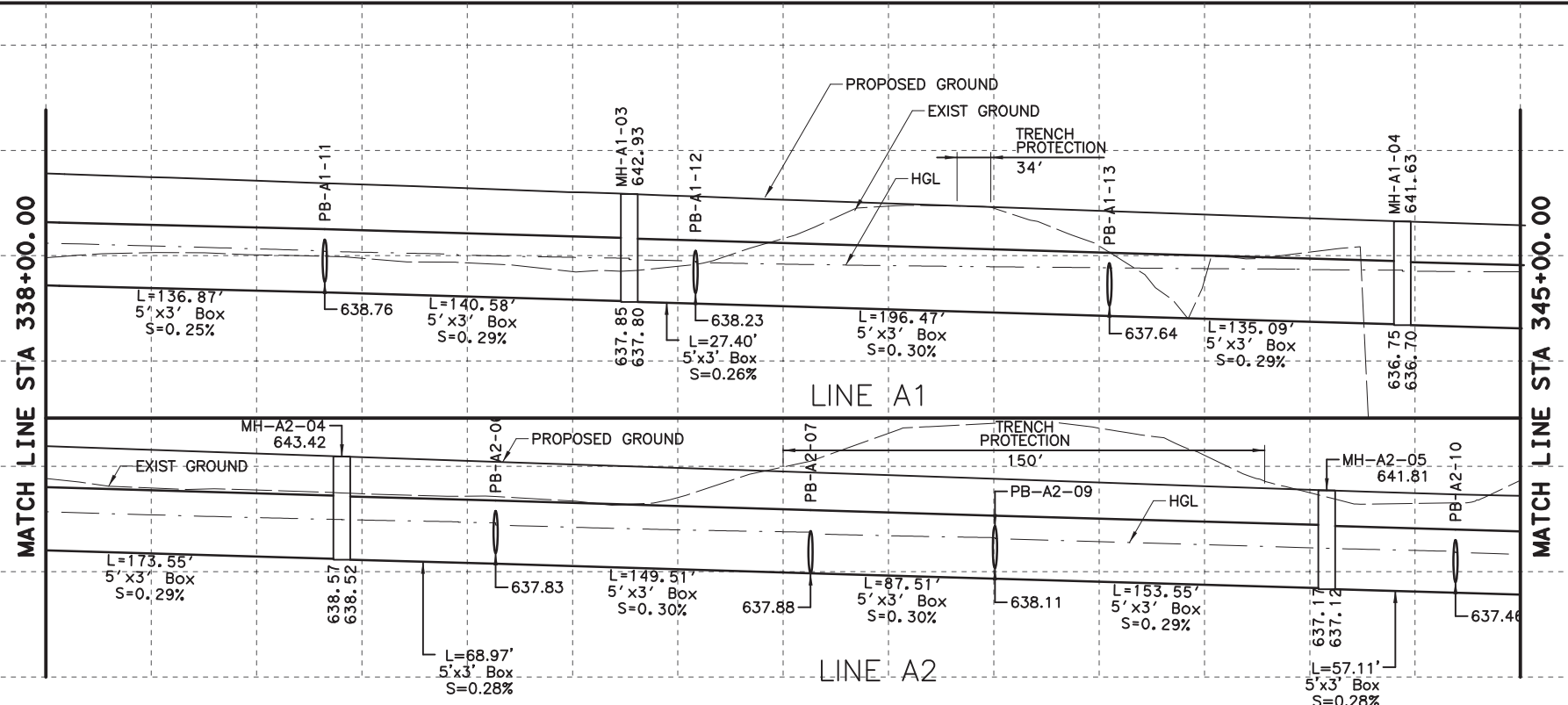
**DRAINAGE PLAN AND PROFILE**  
STA 329+00.00 TO STA 338+00.00

Designed	CPY	FED. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB SHEET NO.
Checked	CPY	18	COLLIN	2056 01 042	259

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- NOTES:
1. ALL STATIONS AND OFFSETS ARE FROM  $\text{CL}$  FM2551 UNLESS OTHERWISE SPECIFIED.
  2. ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
  3. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO CENTER POINT OF INLET BOX OR MANHOLE STACK, UNLESS NOTED OTHERWISE.
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  6. REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  7. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  8. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
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**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

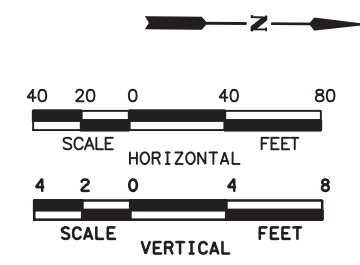
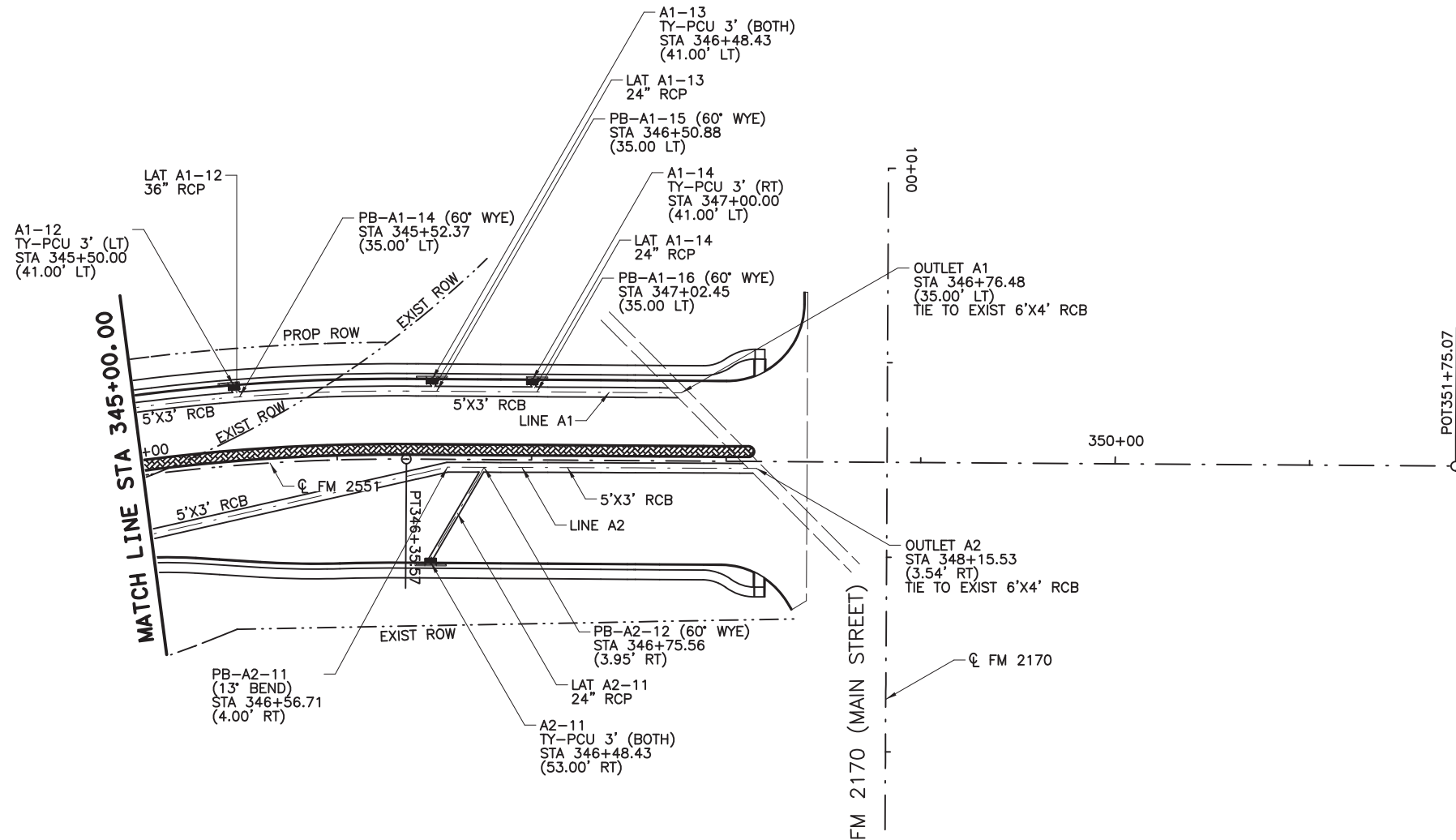
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

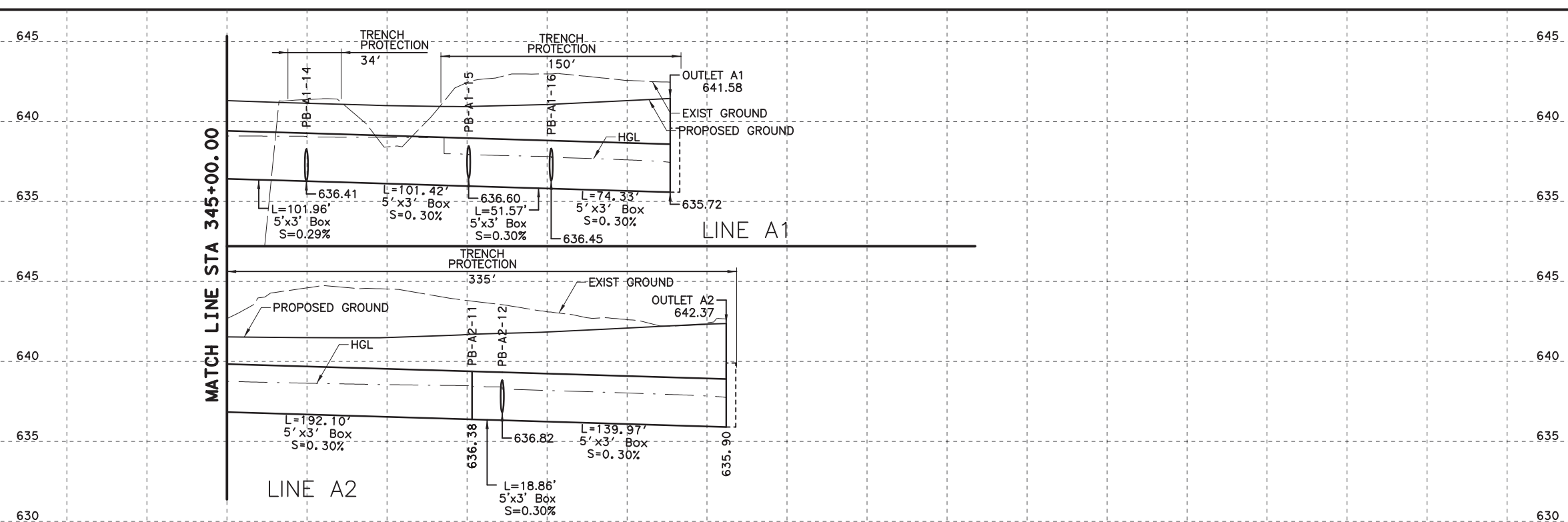
**DRAINAGE PLAN AND PROFILE**  
STA 338+00.00 TO STA 345+00.00

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	CONTROL NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 260			

8/16/2019 9:27:51 AM aklocinski pw:/Active Projects/COLLIN/201/DRPP22.dgn



- NOTES:
- ALL STATIONS AND OFFSETS ARE FROM  $\phi$  FM2551 UNLESS OTHERWISE SPECIFIED.
  - ALL LOCATIONS FOR CURB INLETS ARE SHOWN TO THE FACE OF CURB.
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  - REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  - REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
  - REFERENCE LATERAL PROFILE SHEETS FOR ADDITIONAL LINE AND LATERAL INFORMATION.
  - GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
  - ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.



100% PLANS ADEQUATE  
 Not for construction, bidding, or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
 P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
 TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

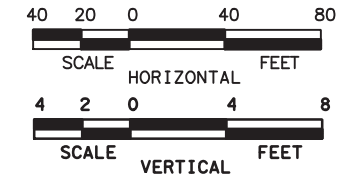
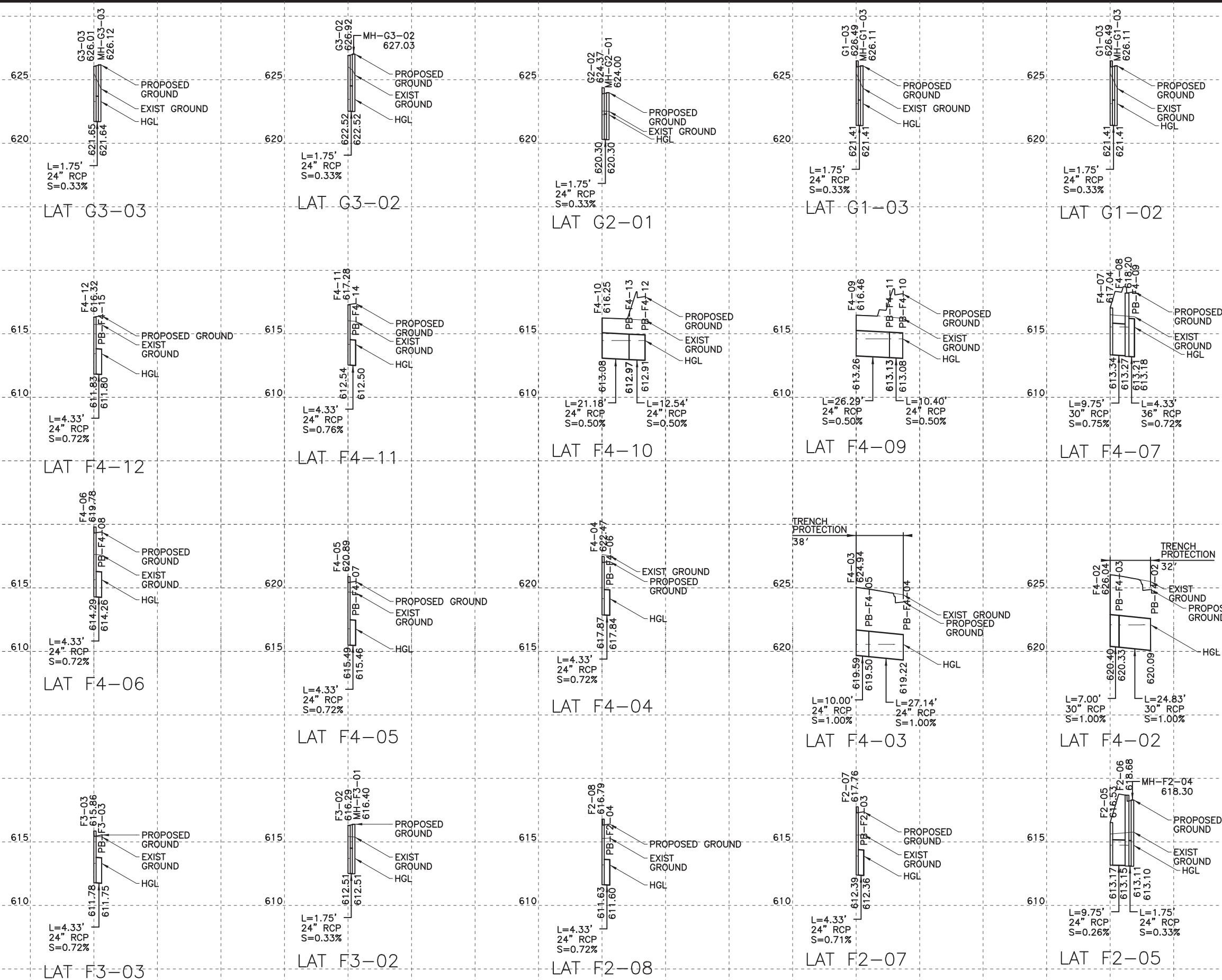
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
 FM 2551 (MURPHY ROAD)

**DRAINAGE PLAN AND PROFILE**  
 STA 345+00.00 TO END PROJECT

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01 042	SHEET NO. 261



8/16/2019 9:27:56 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRq001.dgn



100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

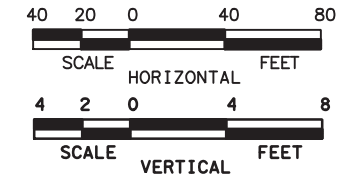
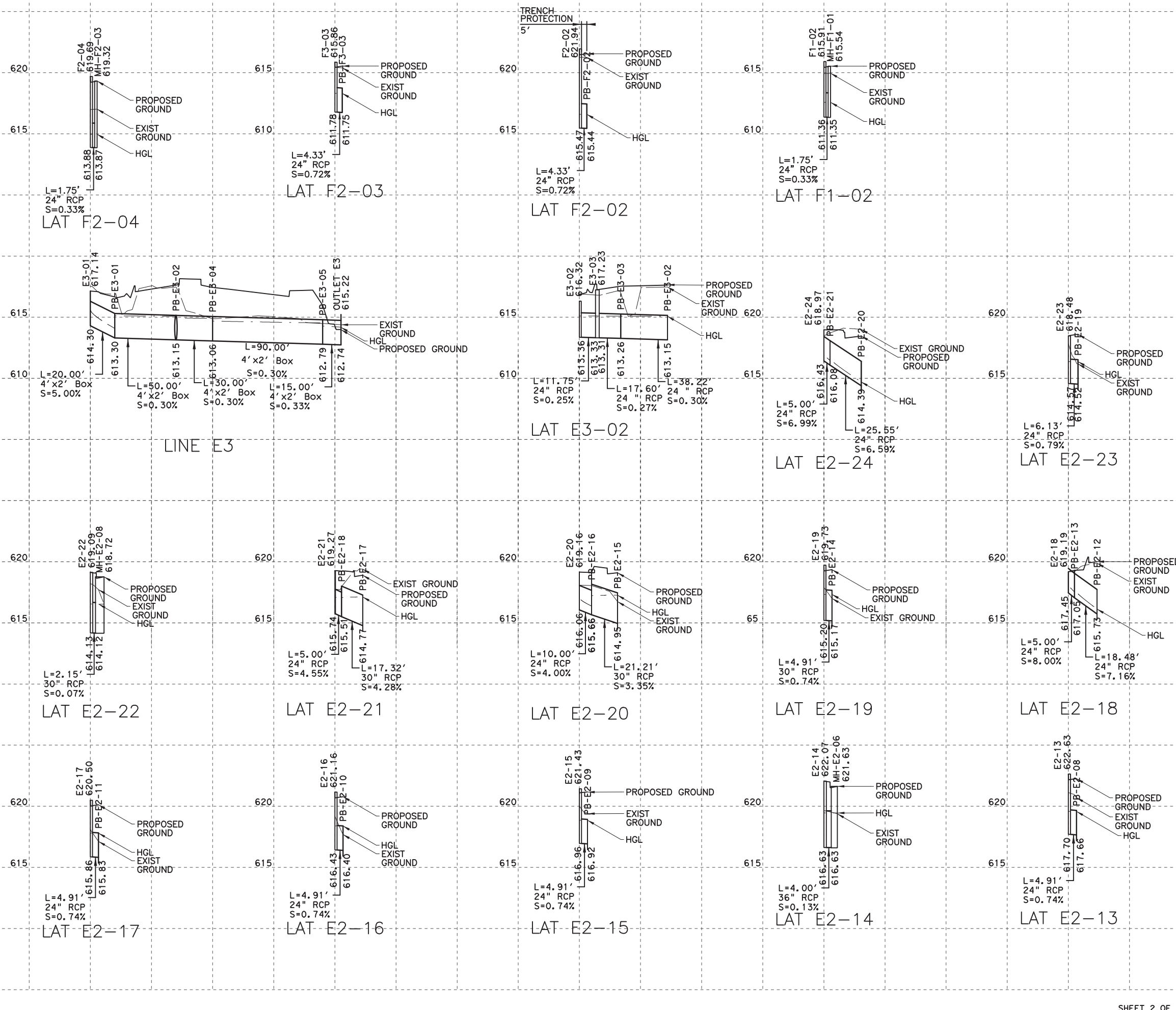
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**DRAINAGE LATERAL PROFILES**

Designed: CPY	FED. RD. DIST. NO.:	STATE:	FEDERAL AID PROJECT NO.:	HIGHWAY NO.:
Checked: CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn: CPY	DIST.:	COUNTY:	CONTROL SECTION NO.:	JOB NO.:
Checked: CPY	18	COLLIN	2056 01	042
				SHEET NO. 262

8/16/2019 9:28:01 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRq02.dgn



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Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

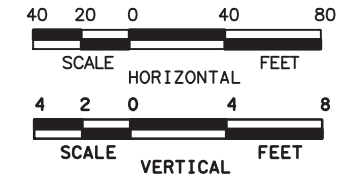
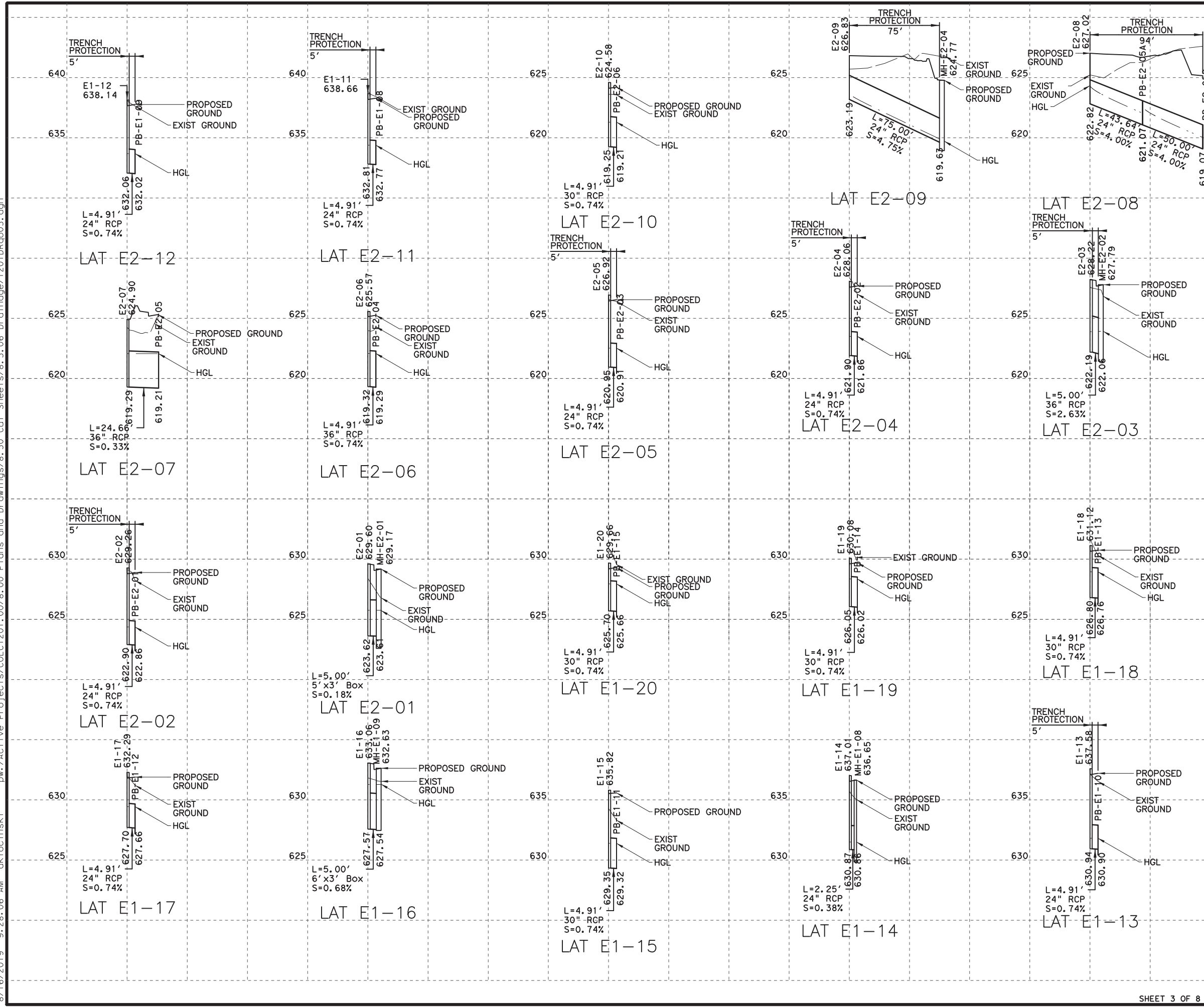
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE LATERAL PROFILES**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01 042	263

8/16/2019 9:28:06 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRq03.dgn



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Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

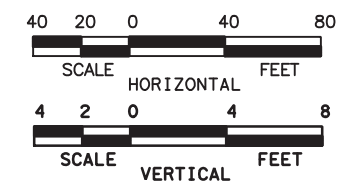
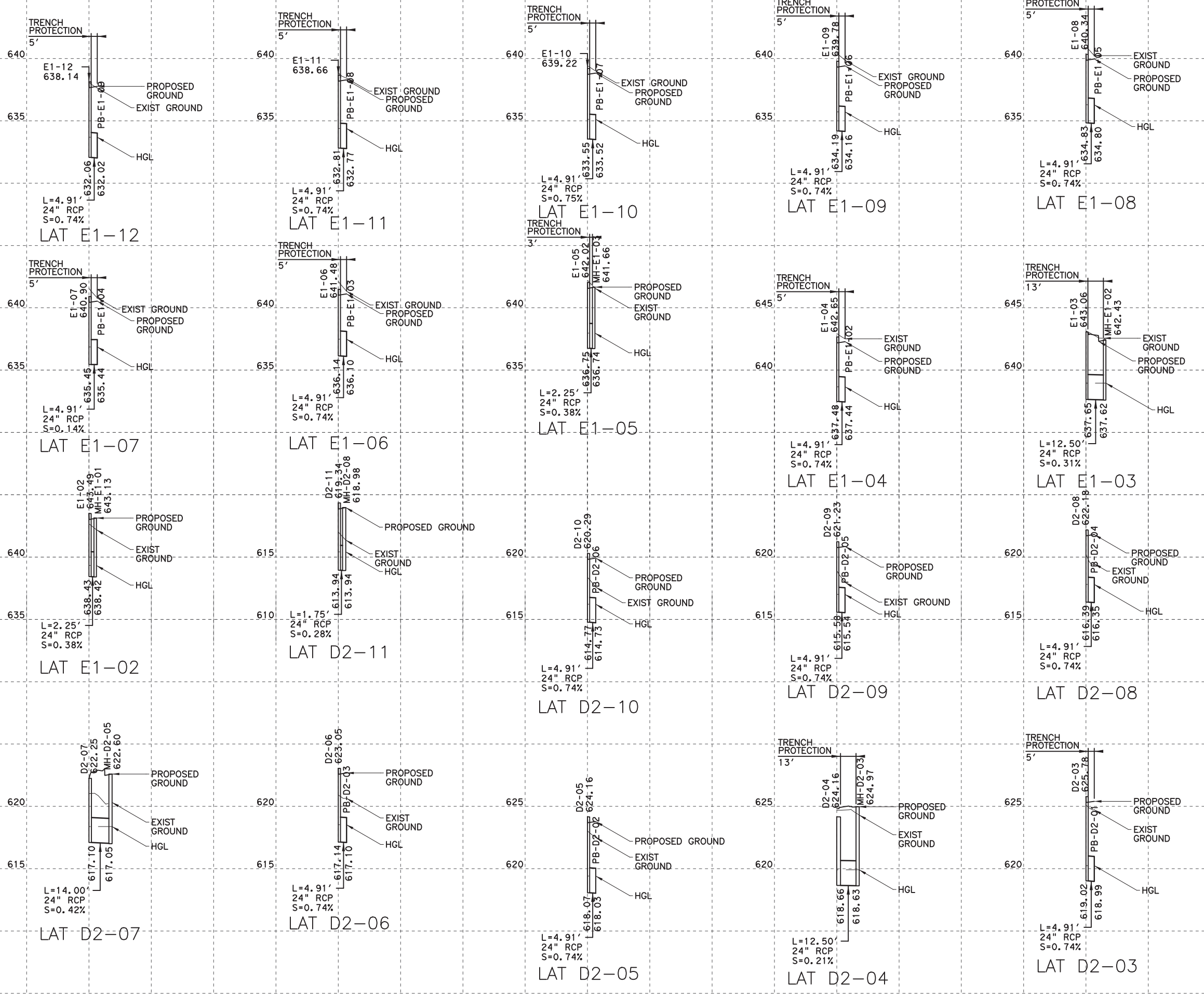
NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)  
**DRAINAGE LATERAL PROFILES**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01 042	264

8/16/2019 9:28:11 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRq04.dgn



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or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

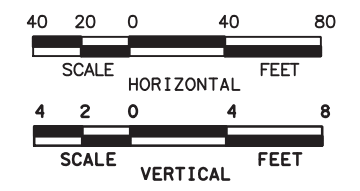
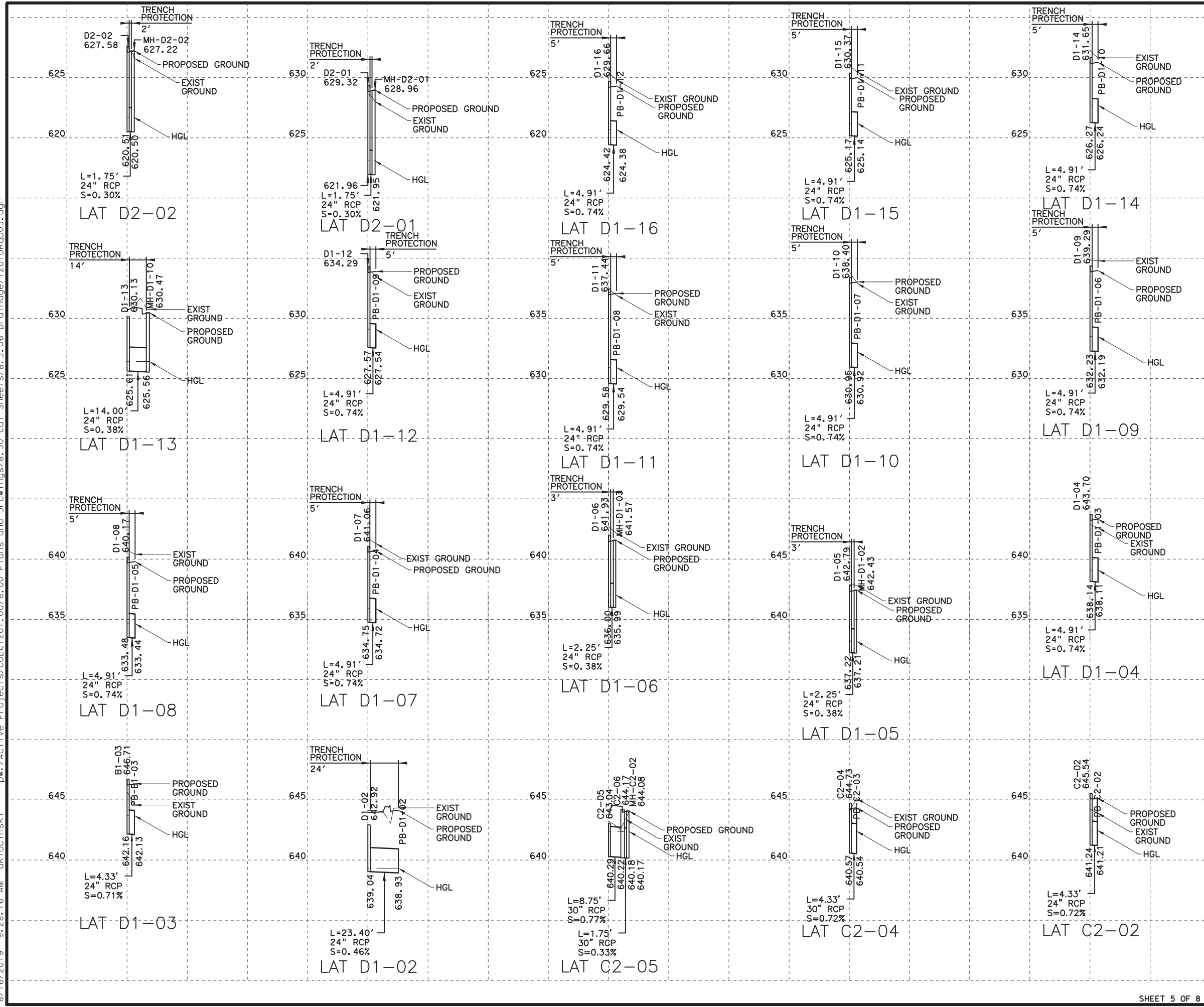
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE LATERAL PROFILES**

Designed: CPY	FED. RD. DIST. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY NO. 2056	SECTION NO. 01	JOB NO. 042
Drawn: CPY	SHEET NO. 18	SHEET NO. 265		SHEET NO. 265

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100% PLANS ADEQUATE  
Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

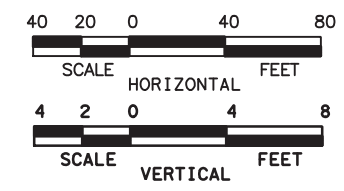
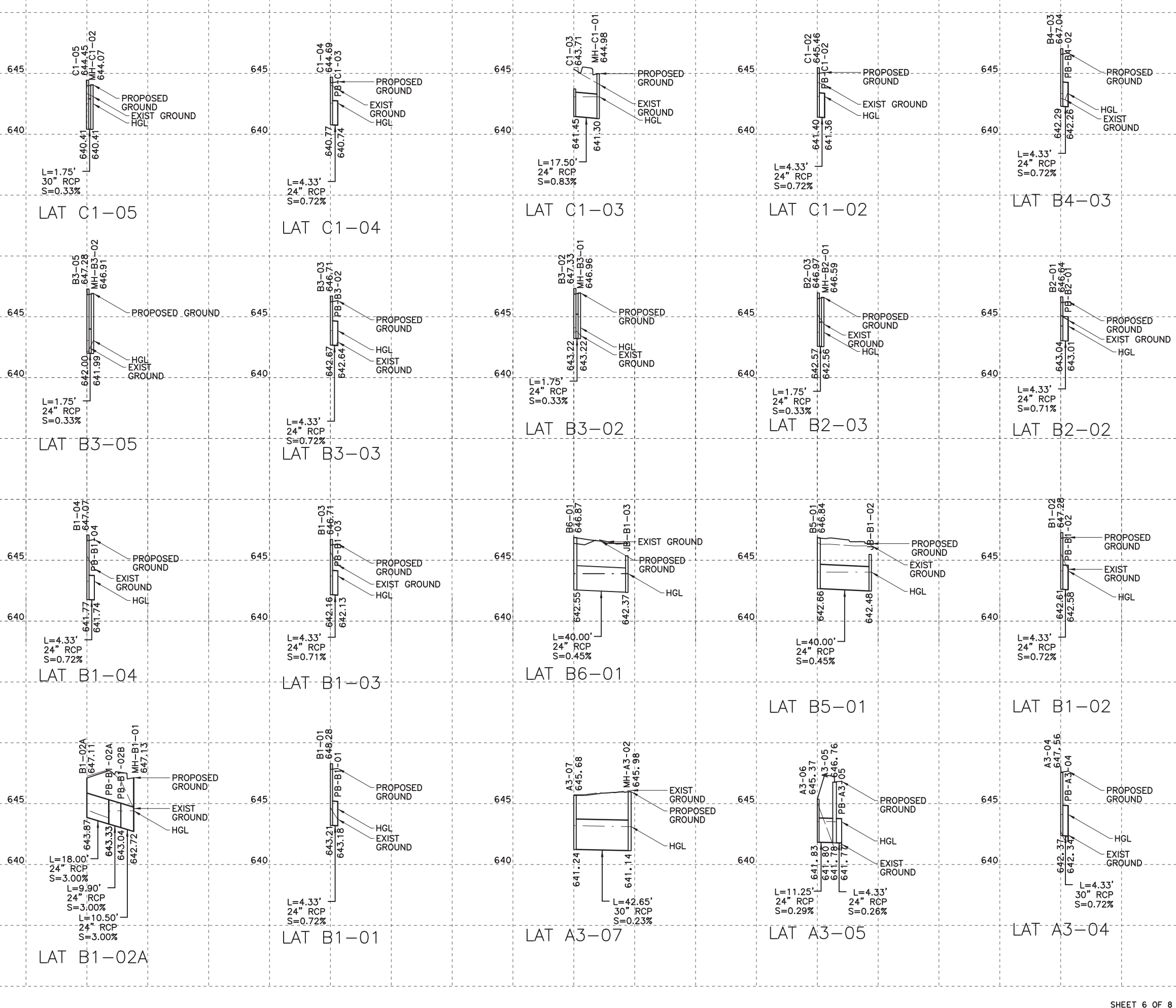
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE LATERAL PROFILES**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: CPY	JOB NO. 18	JOB NO. 042	SHEET NO. 266	

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or permit purposes.

**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

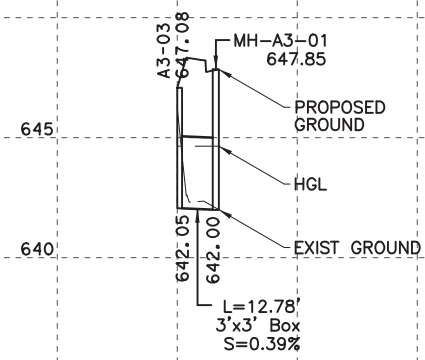
**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation  
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

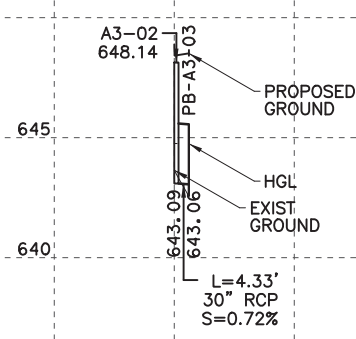
**DRAINAGE LATERAL PROFILES**

Designed: CPY	FED. RD. DIST. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY				
Drawn: CPY	DIST. COLLIN	COUNTY	CONTROL SECTION NO. 2056 01 042	JOB NO. SHEET NO. 267
Checked: CPY				

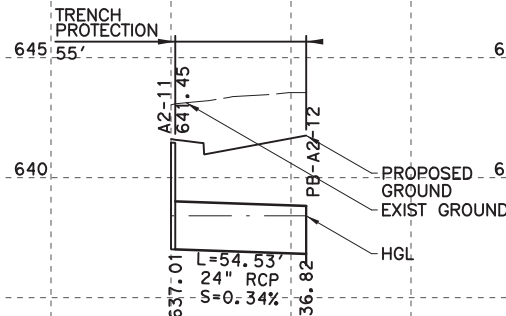
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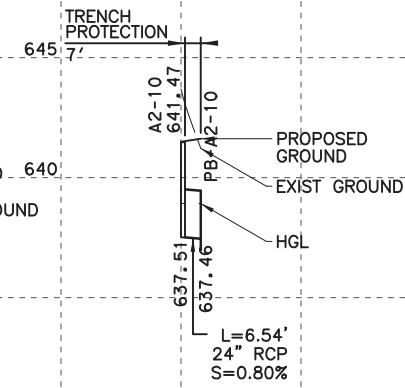
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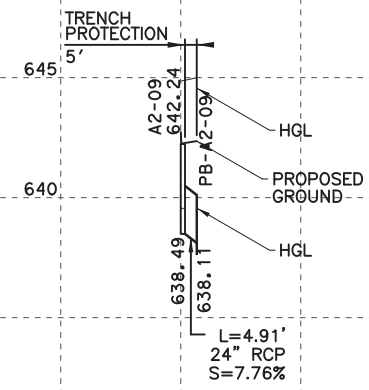
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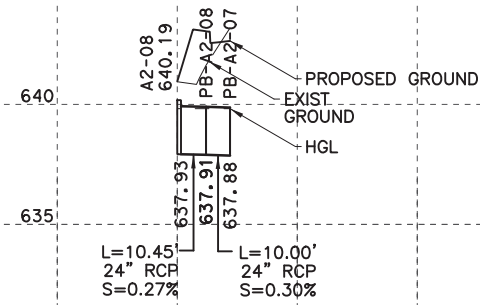
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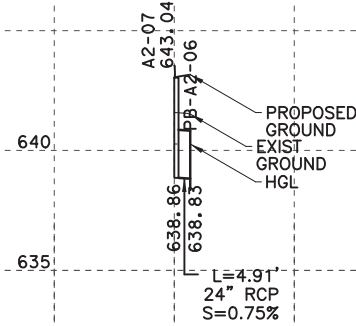
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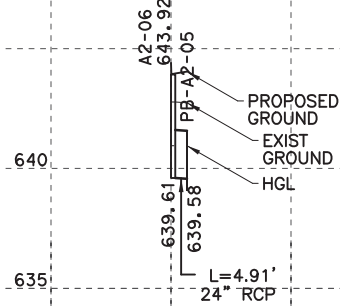
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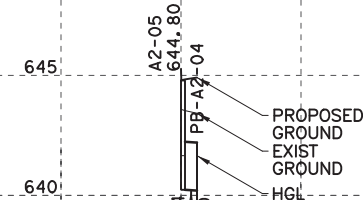
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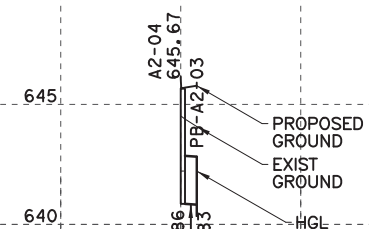
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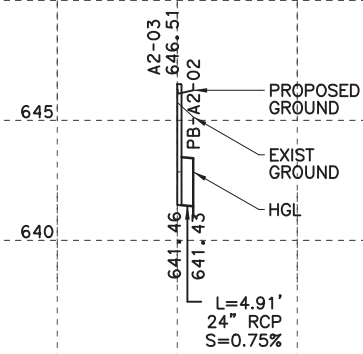
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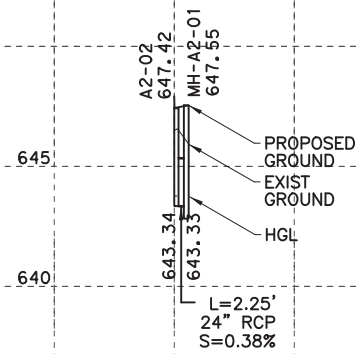
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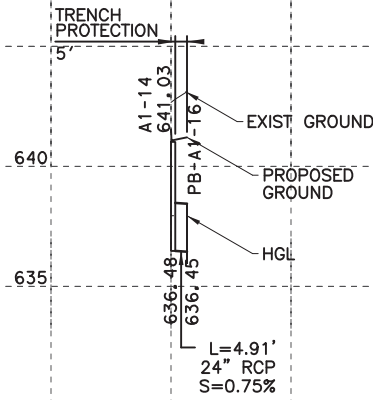
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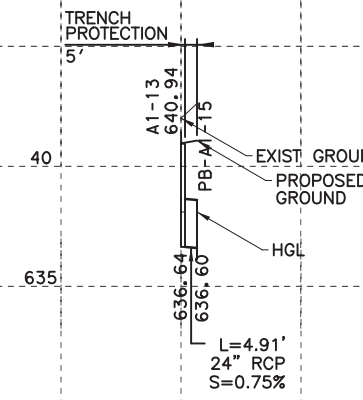
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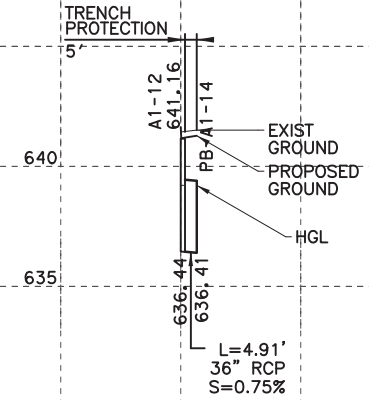
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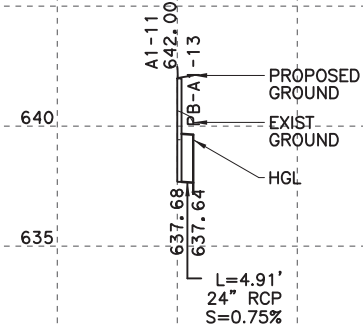
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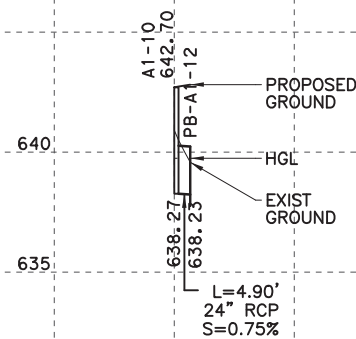
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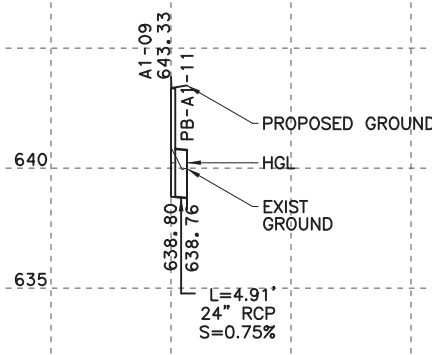
LAT A1-12



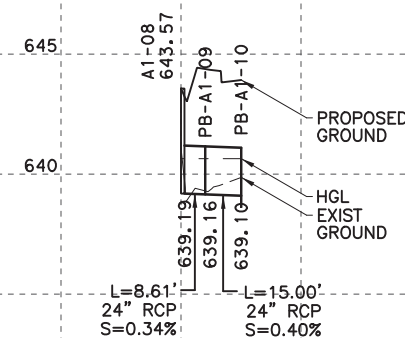
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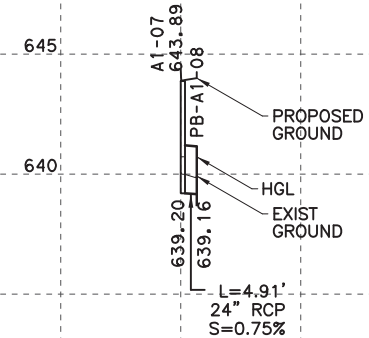
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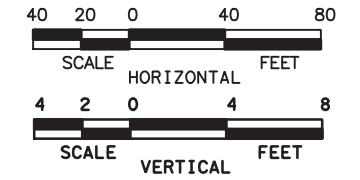
LAT A1-09



LAT A1-08



LAT A1-07



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Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741

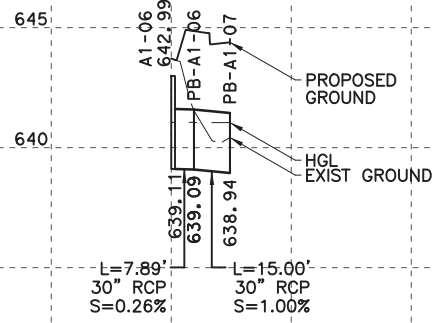
Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

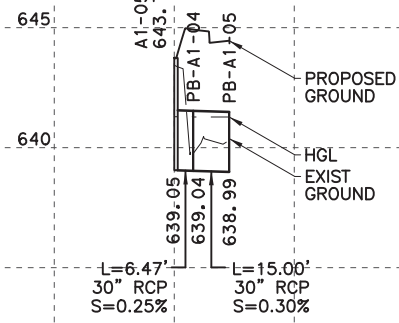
**DRAINAGE LATERAL PROFILES**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01 042	268

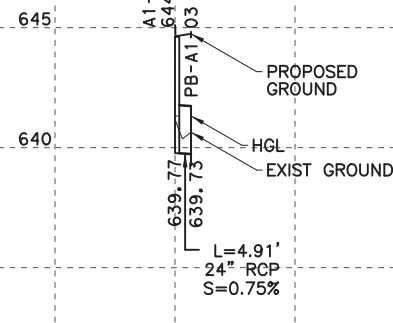
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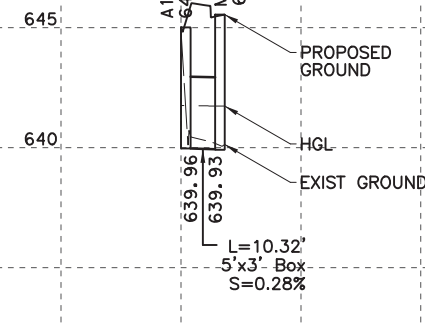
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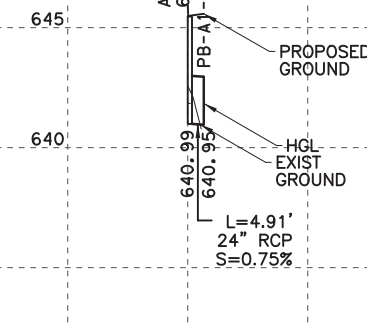
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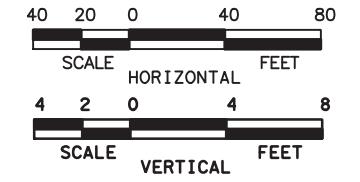
LAT A1-04



LAT A1-03



LAT A1-02



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**CP&Y**

Engineer ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM, F-1741



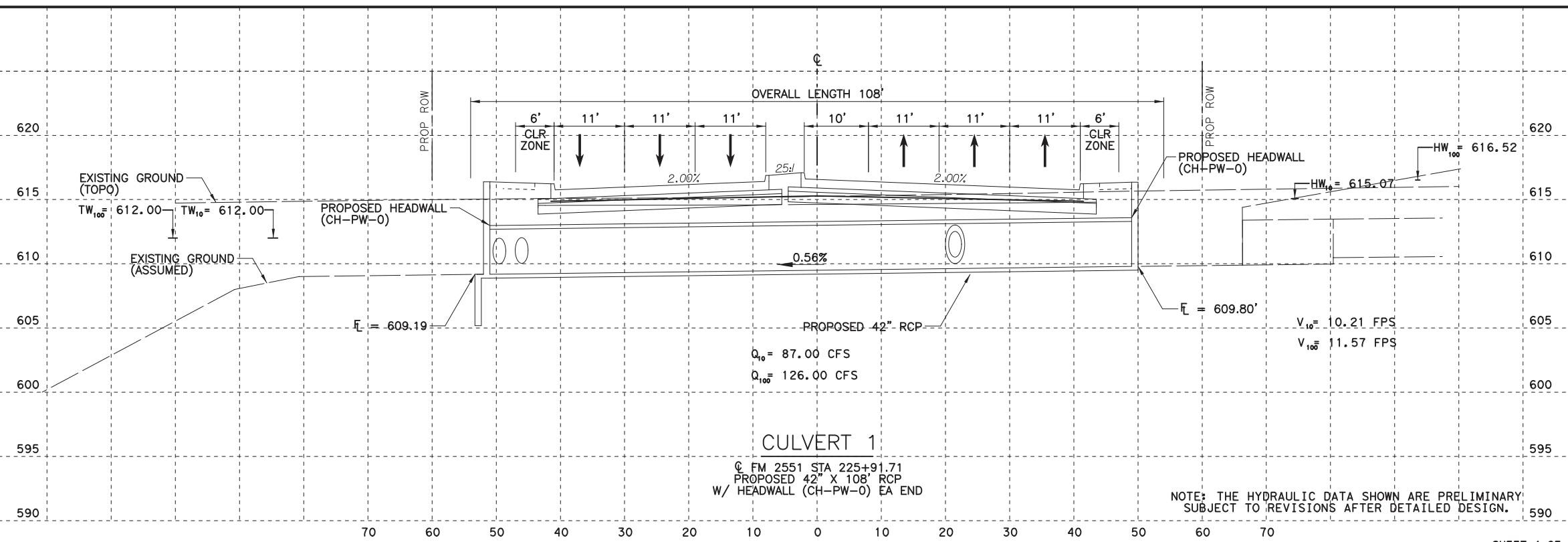
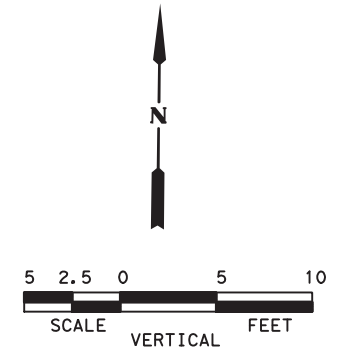
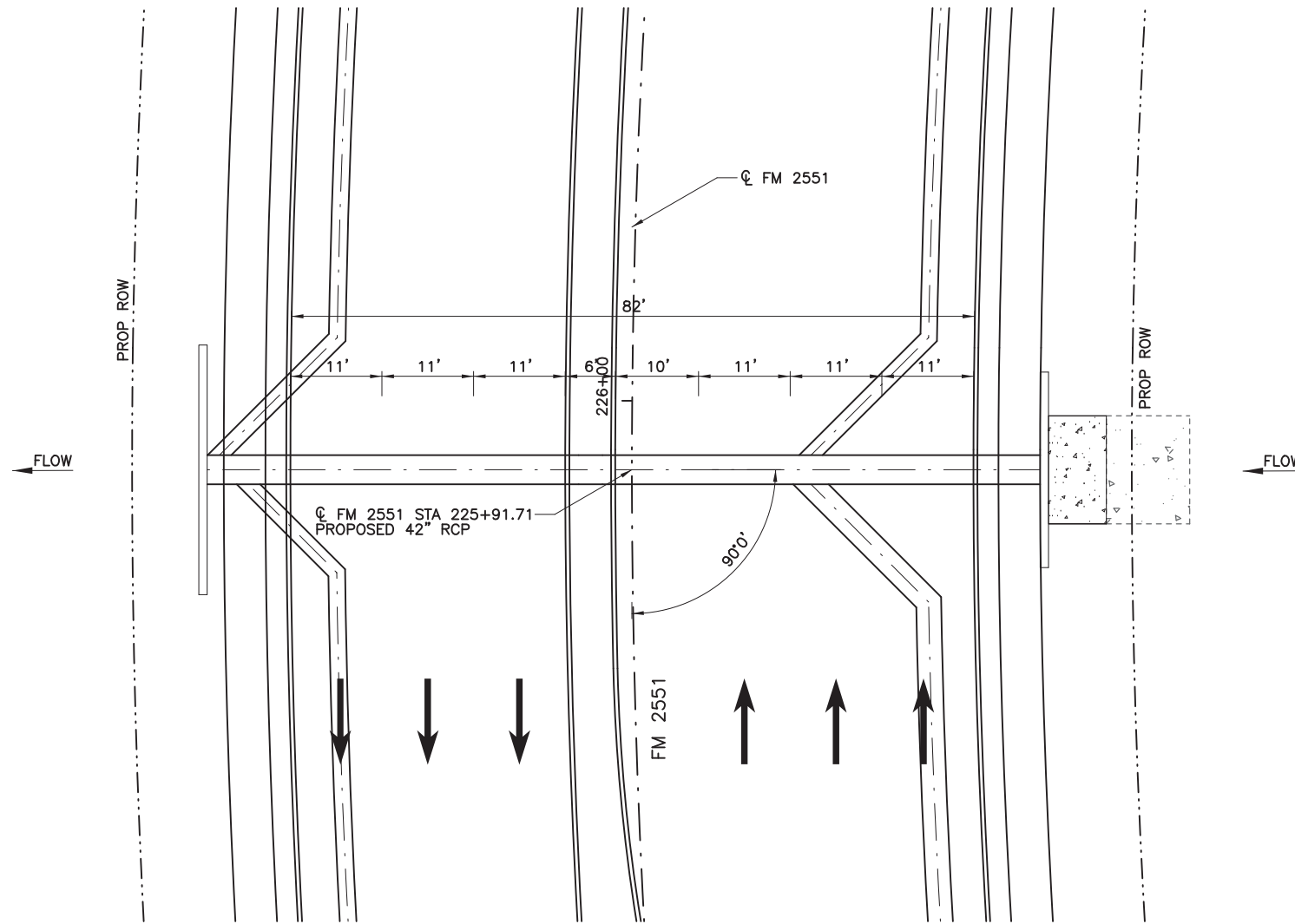
FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**DRAINAGE LATERAL PROFILES**

Designed:	CPY	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	CPY	6	TEXAS	CSJ 2056-01-042	FM 2551
Drawn:	CPY	DIST.	COUNTY	CONTROL SECTION NO.	JOB NO.
Checked:	CPY	18	COLLIN	2056 01	042
					SHEET NO. 269



8/16/2019 9:28:37 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.06 Drainage/1201DRcp01.dgn



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**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

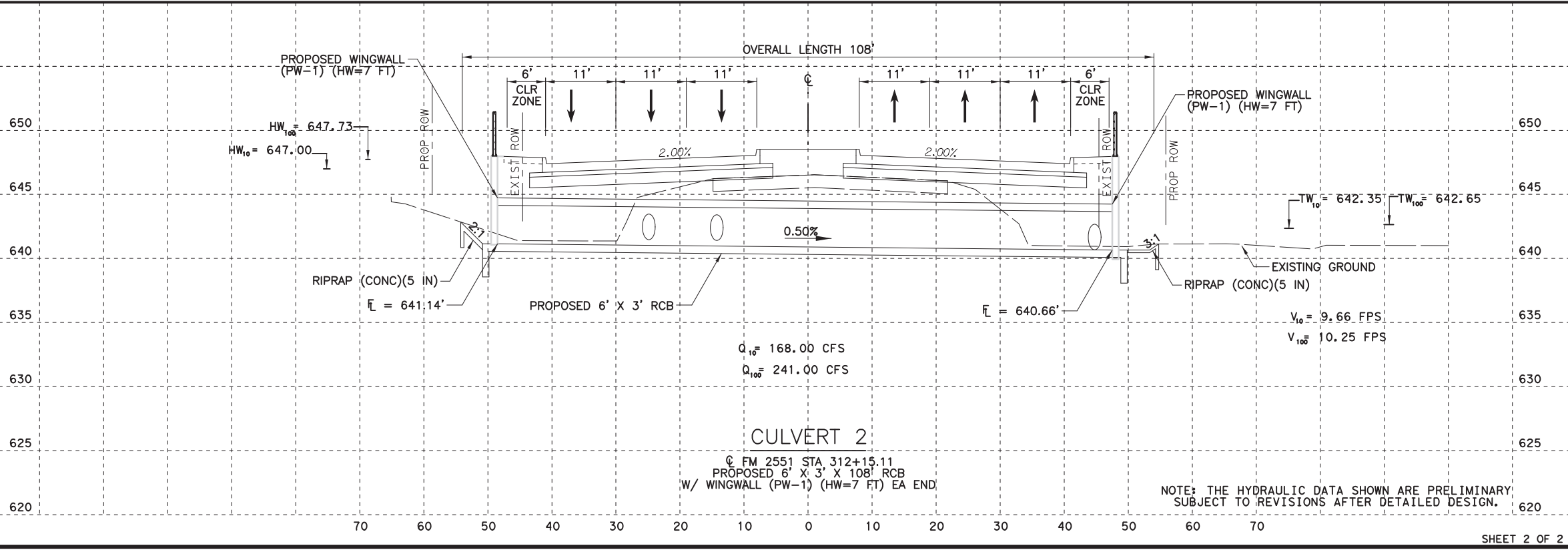
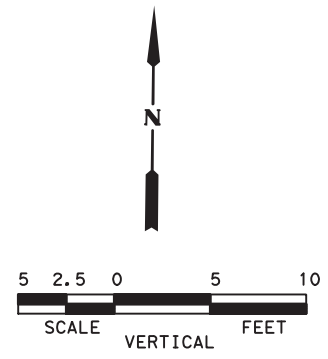
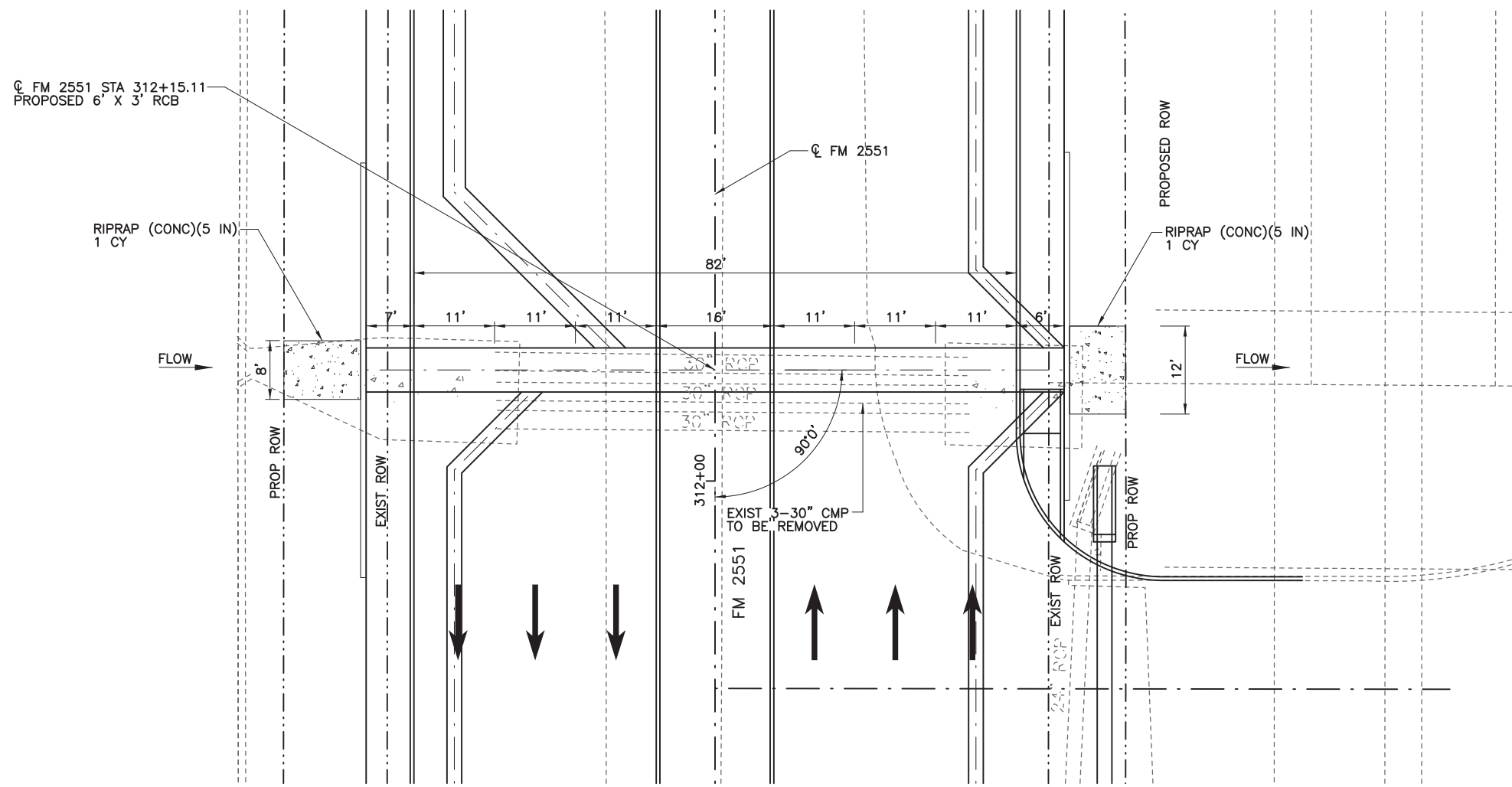
**CULVERT 1 LAYOUT**  
STA 225+91.71

Designed: CPY	FED. RD. DIV. NO.: 6	STATE: TEXAS	FEDERAL AID PROJECT NO.: CSJ 2056-01-042	HIGHWAY NO.: FM 2551
Checked: CPY	DIST.: 18	COUNTY: COLLIN	CONTROL SECTION NO.: 2056 01	JOB NO.: 042
Drawn:				SHEET NO.: 270
Checked:				

NOTE: THE HYDRAULIC DATA SHOWN ARE PRELIMINARY  
SUBJECT TO REVISIONS AFTER DETAILED DESIGN.

8/16/2019 9:28:42 AM aklocinski pw:/Active Projects/COLC1201.00/8.00 Plans and Drawings/8.30 Cut Sheets/8.30.06 Drainage/1201DRcp02.dgn

SMT



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Not for construction, bidding,  
or permit purposes.

**CP&Y**

Engineer: ANDREA KLOCINSKI  
P.E. No. 121625 Date 8/16/2019

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

Texas Department of Transportation

FROM FM 2514 (PARKER ROAD) TO FM 2170 (MAIN STREET)  
FM 2551 (MURPHY ROAD)

**CULVERT 2 LAYOUT  
STA 312+15.11**

Designed: CPY	FED. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. CSJ 2056-01-042	HIGHWAY NO. FM 2551
Checked: CPY	DIST. COLLIN	COUNTY	CONTROL NO. 2056	SECTION NO. 01
Drawn: 18	JOB NO. 042	SHEET NO. 271		

NOTE: THE HYDRAULIC DATA SHOWN ARE PRELIMINARY,  
SUBJECT TO REVISIONS AFTER DETAILED DESIGN.