

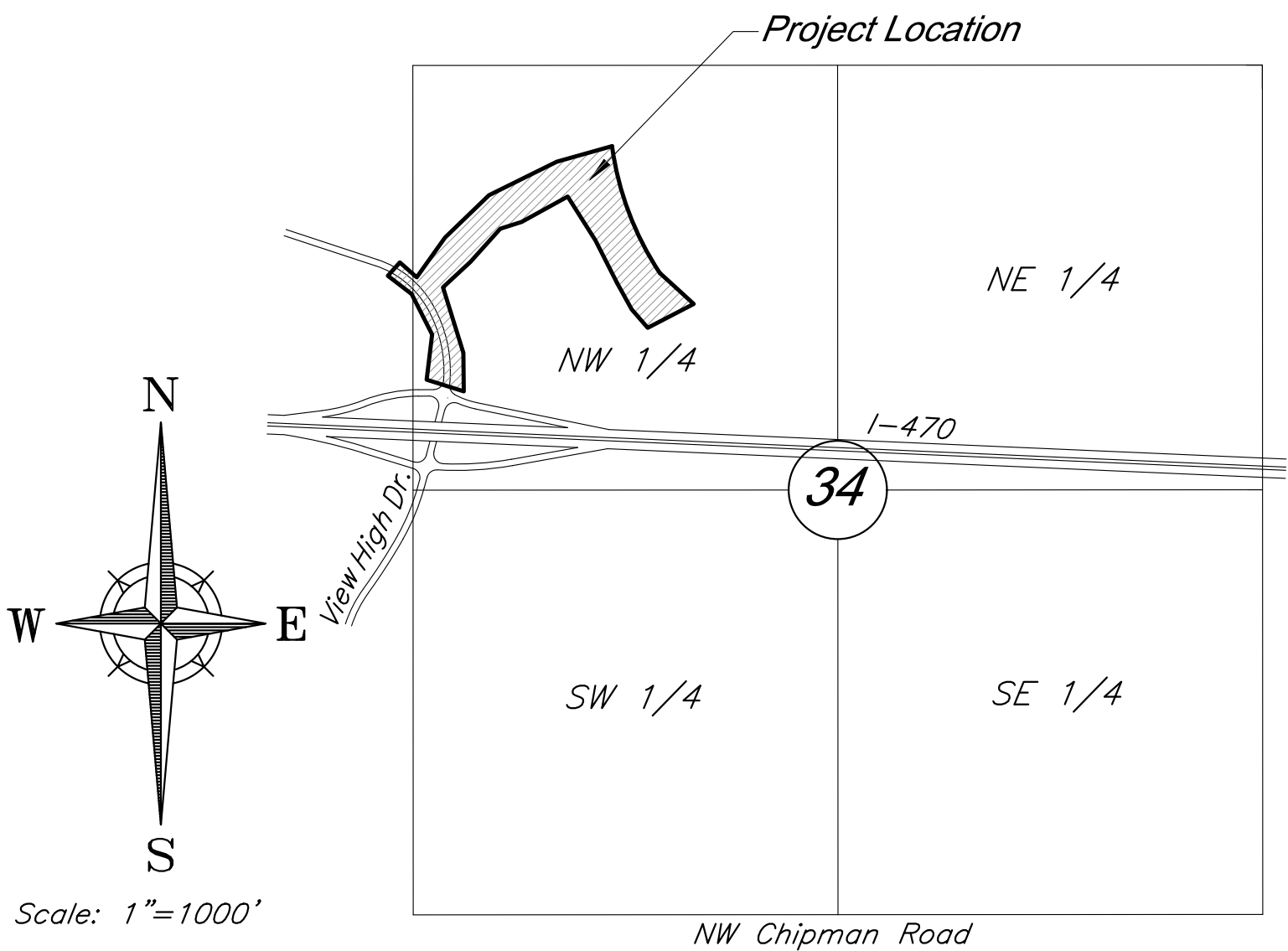
G:\12220\Civil 3D\Production Drawings\Street & Storm Plans\1222000100.dwg Layout: 1 Cover Sheet -- Thursday April 06, 2023, 3:18pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

PUBLIC STREET, STORM SEWER AND STREET LIGHTING PLANS
FOR
PARAGON STAR DEVELOPMENT – LEE’S SUMMIT, MO
View High Dr, View High Pkwy, River Rd
Sections 33 & 34–Township 48–Range 32
City of Lee’s Summit
Jackson County, Missouri

Summary of Quantities

Item No.	Description	Unit	Approx. Unit Quantity
1	Concrete Surface (7") w/ Aggregate Base (6")	SY	13,858
2	Concrete Curb and Gutter (Type "B")	LF	10,577
3	4" Underdrain	LF	8,627
4	Street Lighting	EA	47
5	8'x5' Curb Inlet	EA	1
6	8'x4' Curb Inlet	EA	3
7	7'x5' Curb Inlet	EA	1
8	7'x3' Curb Inlet	EA	6
9	6'x3' Curb Inlet	EA	5
10	5'x4' Curb Inlet	EA	1
11	5'x3' Curb Inlet	EA	6
12	Storm Sewer (15") (RCP)	LF	985
13	Storm Sewer (18") (RCP)	LF	1,188
14	Storm Sewer (24") (RCP)	LF	370
15	4" MH	EA	4
16	Seeding	Acre	2.91
17	Temporary Gravel Construction Entrance	EA	1
18	Curb Inlet Protection	EA	144
19	Concrete CG-2 (Mountable Curb)(Roundabout)	LF	981
20	Concrete C-1 (Barrier Curb)(Roundabout)	LF	698
21	Brick Pavers (Roundabouts)	SY	3,590
22	Brick Pavers (Street Medians)	SY	2,204
23	5" KCP&L Conduit	LF	5,908
24	4" Telecom conduit	LF	4,570
25	4" SCH 40 PVC	LF	948
26	Cut	CY	18,169
27	Fill	CY	11,609
28	End Section 15" RCP w/ Conc. Toewall	EA	1
29	End Section 18" RCP w/ Conc. Toewall	EA	1
30	End Section 24" RCP w/ Conc. Toewall	EA	1
31	Concrete Sidewalk (6' Wide)	LF	3,654
32	Concrete Sidewalk (10' Wide)	LF	2,345
33	Retaining Wall	SF	337
34	Median Nose	EA	4

Design Speed = 40 mph



VICINITY MAP

Section 33 & 34-T48N-R32W

NOT FOR CONSTRUCTION

REVIEWED FOR CONSTRUCTION

Developers Bonding Statement

I have reviewed these plans and understand what is proposed. The work shall be completed in one contract. Any incidental work not specifically permitted must be performed by the permit holder.

Developer

This project has been designed, and these plans prepared, to meet or exceed the design criteria of Kansas City, Missouri in current usage, except as indicated below:

Exceptions:
1. None.

DEVELOPED AND OWNED BY:
PARAGON STAR LLC
801 NORTHWEST COMMERCE CENTER
LEE’S SUMMIT, MISSOURI 64086
PHONE: (816) 802-6801
CONTACT: Mr. Flip Short
EMAIL: fshort@legacytouch.com

PREPARED & SUBMITTED BY:
GEORGE BUTLER ASSOCIATES, INC.
9801 RENNER BOULEVARD
LENEXA, KANSAS 66219
PHONE: 913-492-0400
FAX: 913-577-8312
CONTACT: BRAD BURTON P.E.
EMAIL: BBURTON@GBATEAM.COM

PROJECT ENGINEER:

DATE:

INDEX OF SHEETS

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RFI 11	View High Drive Transition

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

"+00.00 100.10", "+0.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

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Date: 4/7/23

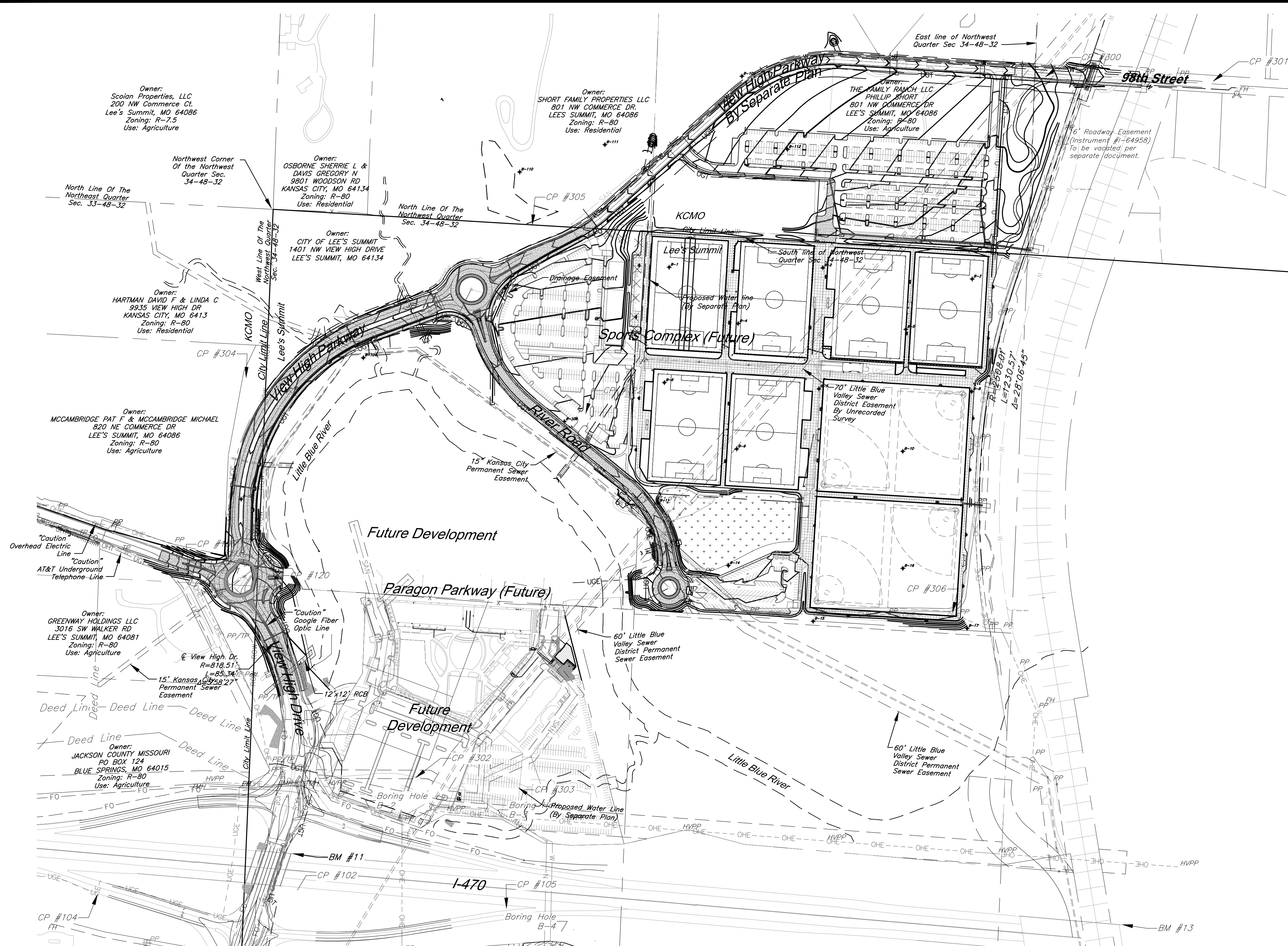
Certified by:

Bradley D. Burton, PE

Title: Senior Associate
Firm: GBA

Record Drawings
4/7/2023

9/2/20 City Comments
6/25/20



PROJECT CONTROL

Modified State Plane (Project Ground Coordinates), NAD83
2403 - Missouri West, U.S. Feet
Vertical - NAVD88, U.S. Feet

0.99990648
To get to State Plane:
Coordinates $\times$ CAF = State Plane

CP #100 - 1/2" rebar with CBA cap on South side of View High Drive, 18' West of asphalt field entrance, approximately 975' North along the centerline of View High Drive from the ramp to West bound I-470.

Coordinates:
N: 1009568.88'
E: 2803498.54'
EL: 819.37'

Ties:

- 1) North 4.15' to the South edge of asphalt of View High Drive
- 2) East 18.00' to West edge of asphalt field entrance
- South 27.50' to west end of 18" cmp culvert for field entrance

CP #120 - $\frac{1}{2}$ " rebar with GBA cap at NW corner of View High
Drive and access road "Future View High Drive Pkwy"
Coordinates:
N: 1009573.66'
E: 2803729.57'
EL: 811.46'

Ties:
1) NW 3.60' to East edge of asphalt
2) West 51.44' to back of curb at nose of island
NE 56.30' to center of MH lid

CP #121 - $\frac{1}{2}$ " rebar with GBA cap approximately 1430' $\pm$ ENE of access road "Future View High Drive Pkwy" from View High Drive, near MH #1055

Coordinates:

N: 1009788.28'
E: 2805047.90'
EL: 806.65'

Ties:

- 1) SW 3.65' to center of MH lid
- 2) WNW 14' to power pole
- 3) NW 35.65' to NE corner of chain link fence area

CP #122 - $\frac{1}{2}$ " rebar with GBA cap approximately 1380 $\pm$ NE of access road "Future View High Drive Pkwy" from View High Drive
Coordinates:
 N: 1010126.48'
 E: 2804884.88'
 EL: 813.20'
Ties:
 1) West 298 $\pm$ to center of MH lid
 2) South 199 $\pm$ to center of MH lid

CP #304 - $\frac{1}{2}$ " rebar West of future View High Pkwy at top of hill near tree line, approximately $732 \pm$ North of access road "Future View High Drive Pkwy" from View High Drive

Coordinates:

N: 1010251.92'
E: 2803699.53'
EL: 839.39'

Ties:

- 1) NNE $23.10'$ to South face of twin $10"$ oak tree
- 2) SW $5.30'$ to East face of $10"$ oak tree
- 3) NW $14.60'$ to East face of $9"$ oak tree

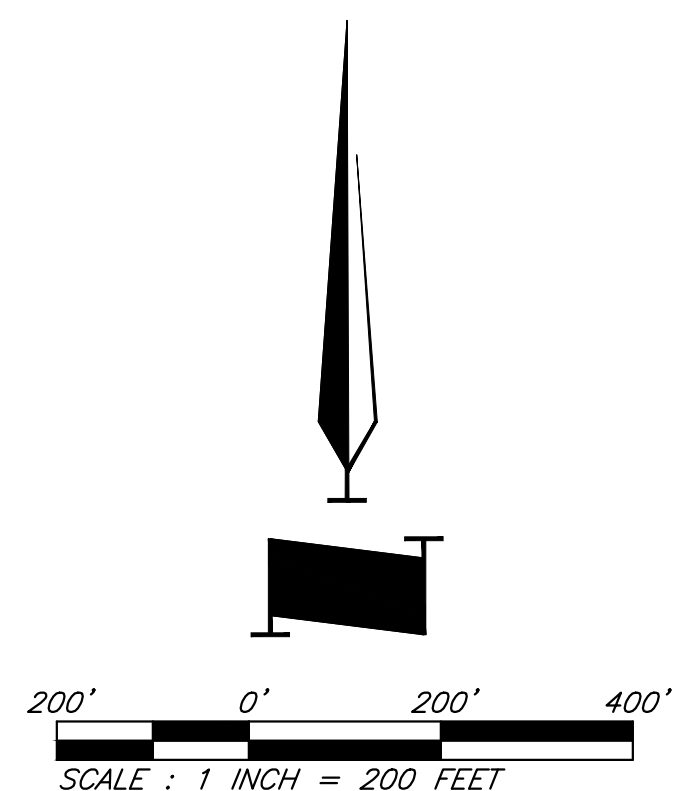
CP #305 - $\frac{1}{2}$ " rebar South of dead end of gravel driveway,
which connects to Easterly end of E. 97th Street, on top of
hill.
Coordinates:
N: 1010784.43'
E: 2804698.47'
EL: 888.55'
Ties:
SE 4.00' to great break at ridge line

PROJECT BENCHMARK

BM #11 - Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of 1470 bridge spanning View High Drive. Coordinates: N=1008590.33', E=2803864.07', EL=833.80

BM #13 - Chiseled "L" on NE corner of
Interstate 470 and Cedar Creek Bridge
Coordinates: N=1008342.79', E=2806758.22',
EL=852.04'

Total Disturbed Area = 10.14 Acres



General Layout

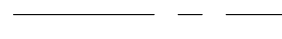
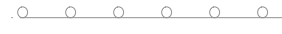
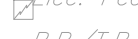
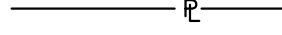
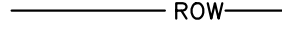
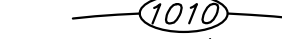
The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA. Date: 4/7/23 <i>Ripke</i> Certified by: Bradley D. Burton Title: Senior Associate Firm: GBA RECORD DRAWING	GBA architects engineers 9801 Renner Boulevard Overland Park, Kansas 66219 913.492.0400 www.gbateam.com	DATE: 6-25-2020		
		DESIGN BY: CEL		
		DRAWN BY: DRV		
		PROJECT NO.: 12720		
		<table border="1"> <tr> <td>SHEET NO.</td> <td>TOTAL SHEETS</td> </tr> <tr> <td>2</td> <td>104</td> </tr> </table>	SHEET NO.	TOTAL SHEETS
SHEET NO.	TOTAL SHEETS			
2	104			

Bradley D. Burton Professional Engineer License No. 25862	<i>Street and Storm Sewer Plans</i> <i>Paragon Star Development</i> <i>Lee's Summit, Missouri</i>
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NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

1	1/27/21	Revised Structure Size	As-Built: "440-60 100.10" "x-60% slope", or "8-inch HDPE PVC pipe" are all
2	2/4/21	Retaining Wall Station & Offsets	typical examples of revisions that indicate that
3	2/26/21	RFI 11	design data has been replaced with "as-built" information. All other data is as designed and
4	3/11/21	RFI 12	has not been field verified.
5	3/11/21	Revised Line 400	
6	4/8/21	Utility Updates	
7	5/25/21	Paver Revision	
8	6/15/21	Grading Updates	
9	6/24/21	Wiring Diagram Updates	
10	9/30/21	RFI 15-Irrigation Sleeves	
11	9/30/22	Record Drawings	
12	4/7/23	Record Drawings	

Legend

	Cable TV Pedestal		Barbed Wire Fence
	Power Pole		Centerline
	Guy Anchor		Fiber Optic Line
	Electric Manhole		Gas Line
	Electric Meter		Guard Rail
	Electrical Transformer		Over Head Electric
	Electric Pedestal		Over Head Telephone
	Power Pole/Telephone Pole		Over Head Cable TV
	Power Pole/Light Pole		Property Line
	Bollard/Guard Post		Right-of-Way Line
	Gas Meter		Sanitary Sewer Line
	Gas Valve		Stream
	Curb Inlet		Tree Line
	Junction Box		Underground Electric
	Sanitary Sewer Manhole		Underground Telephone
	Sanitary Cleanout		Underground Cable TV
	Light Pole		Water Line
	Yard Light		Proposed Grades
	Boring Hole		Proposed Storm Sewers
	Sign		Existing Grades
	Property Corner		Existing Storm Sewers
	Telephone Manhole		Tree Deciduous
	Telephone Pedestal		Fire Hydrant
	Telephone Pole		Water Meter
	Traffic Signal Controller Box		
	Tree Coniferous		

FLOODPLAIN NOTE:

According to FEMA Flood Insurance Rate Map (FIRM) Community Panel No. 290905C0404G, effective Date 1/20/17, the tract lies partially within an area designated as Special Flood Hazard Areas. Special Flood Hazard Areas defined on portions of the site include regulatory floodway, Zone AE (with depths identified on site from 810 to 811), and 0.2% Annual Chance Flood Hazard Areas.

A CLOMR has been provided for this project, case number 20-07-0520R, received 2/14/20.

Total Disturbed Area = 10.14 Acres

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
3	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 11/23/20

Utility Updates
- 127/21

Revised Structure Size
- 2/4/21

Retaining Wall Station & Offsets
- 2/26/21

RFI 11
- 3/11/21

RFI 12
- 3/11/21

Revised Line 400
- 4/8/21

Utility Updates
- 5/25/21

Paver Revision
- 6/15/21

Grading Updates
- 6/24/21

Wiring Diagram Updates
- 9/30/21

RFI 15-Irrigation Sleeves
- 9/30/22

Record Drawings
- 4/7/23

Record Drawings

As-Built: "400-00 100.10", "1-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

GENERAL NOTES

General Notes:

- All Construction shall conform to the current City Standards and Specifications of Lee's Summit, MO in effect at the time of the City's approval date shown on the approved plans and incorporated herein by reference.
- All traffic control shall be the responsibility of the Contractor and shall be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD).
- Property Corners and/or Section corners disturbed or damaged by construction activities shall be reset by a Registered Land Surveyor licensed in the state of Missouri, at the Contractor's expense.
- The Contractor shall be responsible for the restoration of the Right-of-Way and for damaged improvements such as curbs, driveways, sidewalks, street light and traffic signal junction boxes, traffic signal equipment, irrigation systems, etc. Damaged improvements shall be repaired in conformance with the latest Lee's Summit, MO standards and to the City's satisfaction.
- All work shall be confined within easements and/or construction limits as shown on the plans.
- The Contractor shall, prior to the commencement of work, investigate surface and subsurface conditions to be encountered across the site and notify the Engineer if any discrepancies or changed conditions are noted.
- This project will include numerous activities occurring on site including storm sewer, sanitary sewer, grading, utility etc. Contractor shall coordinate his work with other contractors on site.
- All trash and debris identified on site shall be properly handled and disposed of in accordance with state of Missouri regulations.
- All measurements on these plans are horizontal distances, not slope distances.
- Items not listed separately in the Summary of Quantities are subsidiary to other items.
- All site concrete shall be KCMMB – 4,000 PSI unless otherwise noted.
- All paving shall adhere to Lee's Summit Standards, Section 2200.

Permitting:

- Excavation for Utility work within the Right of Way requires a Right of Way work permit from the Public Works Department, in addition to all other permits.
- Contractor is responsible for obtaining all required permits, paying all fees, and for otherwise complying with all applicable regulations governing the work.
- All work within the floodway, delineated wetland, and regulator stream channels shall adhere to the terms and conditions of the issued CLOMR and Corps of Engineers Section 404 permit permit.

Erosion Control:

- The Contractor is responsible for providing erosion and sediment control BMP's to prevent sediment from reaching paved areas, storm sewer systems, drainage courses, and adjacent properties. In the event the prevention measures are not effective, the contractor shall remove any debris, silt, or mud and restore the Right-Of-Way, or adjacent properties to original or better condition.
- Contractor shall ensure that all construction shall conform to the requirements of the Stormwater Pollution Prevention Plan (SWPPP) a copy of which shall be maintained and updated on site by the Contractor.
- The Contractor shall seed all disturbed areas within the Public Street Right-of-Way unless otherwise noted in the plans.
- No trees shall be damaged or removed without prior authorization from owner unless otherwise shown on this plan.
- Inspection and maintenance of the sediment and erosion control BMPs shall be per the project SWPPP, but at a minimum shall be once every 7 days or within 24 hours of a precipitation event of 0.5 inches or greater. Records of inspections shall be kept with the project SWPPP.
- Trees, where indicated to be removed, shall be completely removed, including root balls.
- At the contractors option, removed trees may be mulched on site and used as mulch berms in lieu of sediment fence or straw wattles.

Earthwork:

- The Contractor shall be responsible for removing and disposing of grass and vegetation that is found on site. Contractor shall strip site of organic material to a depth acceptable to the Geotechnical Engineer and prior to the placement of fill. Disposal of all debris shall be performed by the contractor in strict accordance with all applicable codes and ordinances. All clearing and grubbing, stripping, and grading operations shall be performed in accordance with the recommendations as found in the Geotechnical Report, and erosion control and grading plans for this site.

- Slopes shall be constructed to a maximum slope of 3:1 (Horiz:Vert).
- Refer to "Geotechnical Engineering Report: Paragon Star – Soccer Fields" Dated 6/27/2016 (Terracon

Project #02165149), and "Geotechnical Engineering Report – Paragon Star Roadways and Borrow Site" Dated December 8, 2016 – along with Addendum #1 dated 1/4/17, and Addendum #2 dated 2/13/17, and "Preliminary Geotechnical Report: View High Green Development" Dated May 29, 2013, by Terracon Consultants, Inc., for grading and pavement recommendations and boring logs. All earthwork shall conform to the recommendations of the Report. A copy of the final site soils report and all boring logs will be available for review prior to the commencement of construction. The soils information shown in this set of plans has been provided by Terracon. George Butler Associates, Inc. is not responsible for the adequacy or accuracy of the soils information shown or provided. It is provided for informational purposes only. The content of these plans may change based on recommendations found in the final geo-technical report.

- Unless otherwise noted, all spot elevations and contours are shown to "finish" grade surface. Contractor shall adjust for any overcut required in paving, parking, landscape, or building pad areas as defined in the Geotechnical Report, these plans, or the project specifications.
- All temporary slopes and excavations should conform to Occupational Safety and Health Administration (OSHA) standards for the Construction Industry (29 CFR part 1026, subpart P).
- Cut/Fill – All fills are to be made with suitable structural fill material in accordance with the project's geotechnical report recommendations.

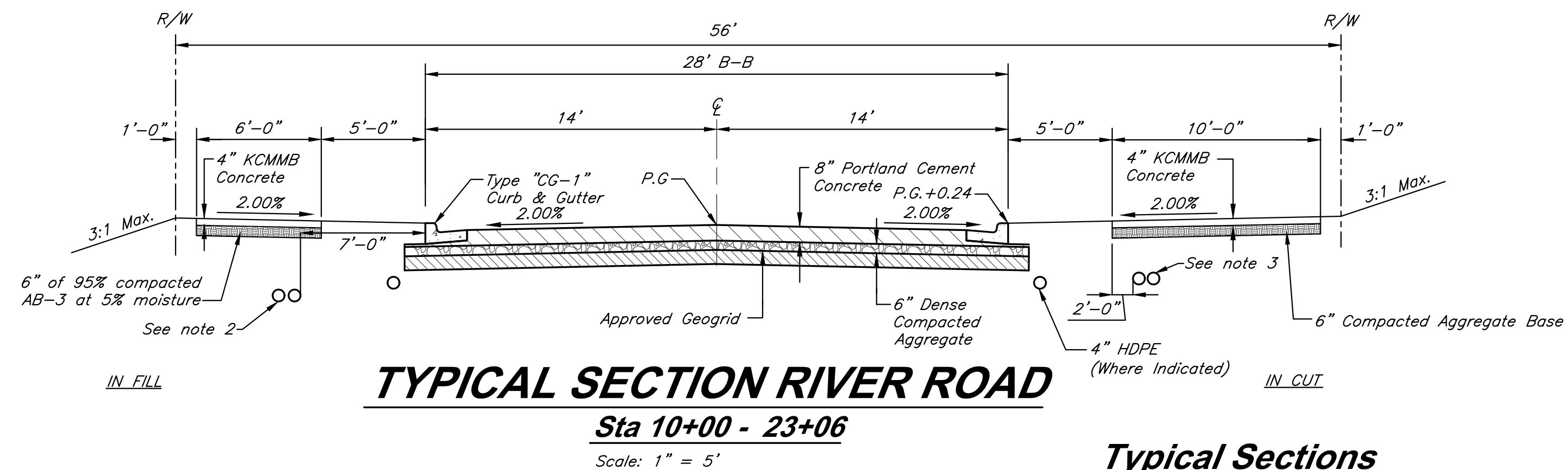
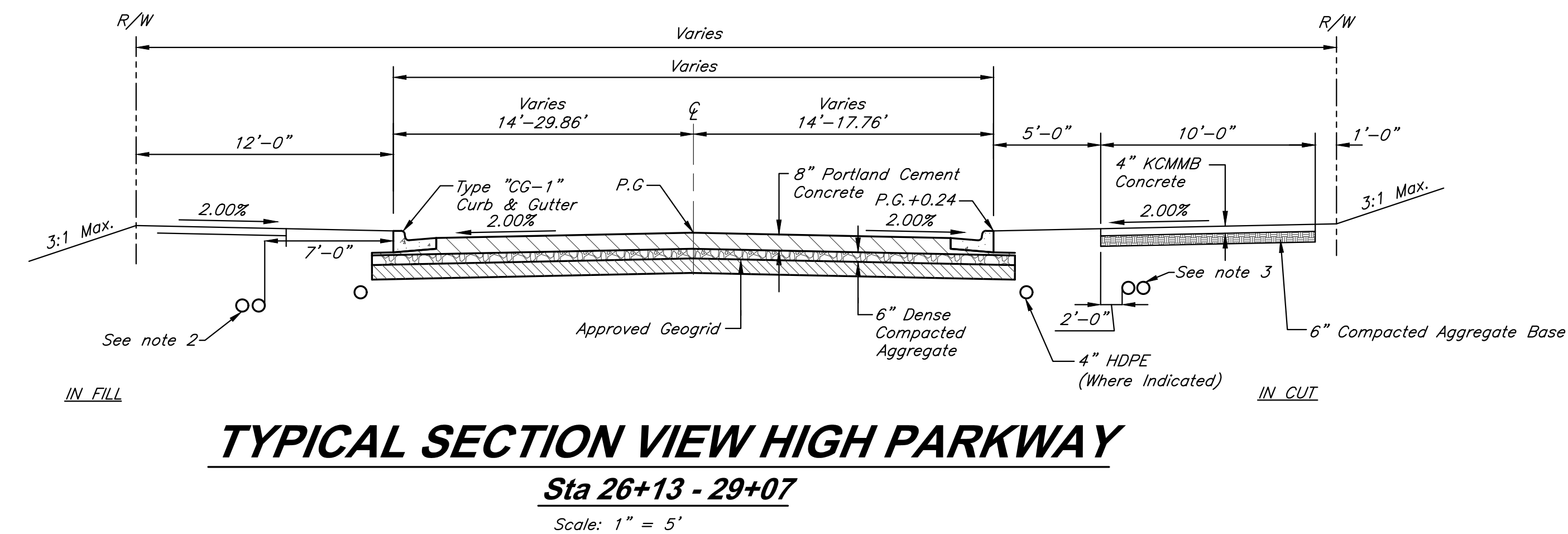
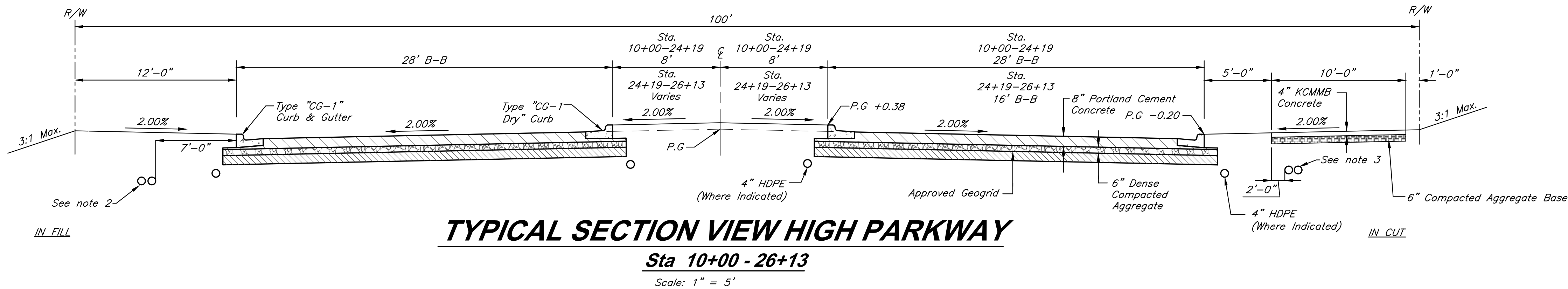
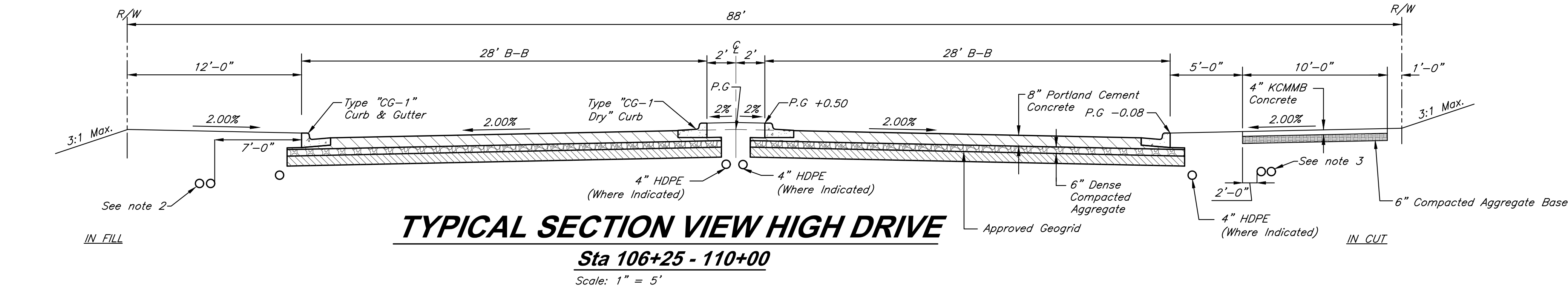
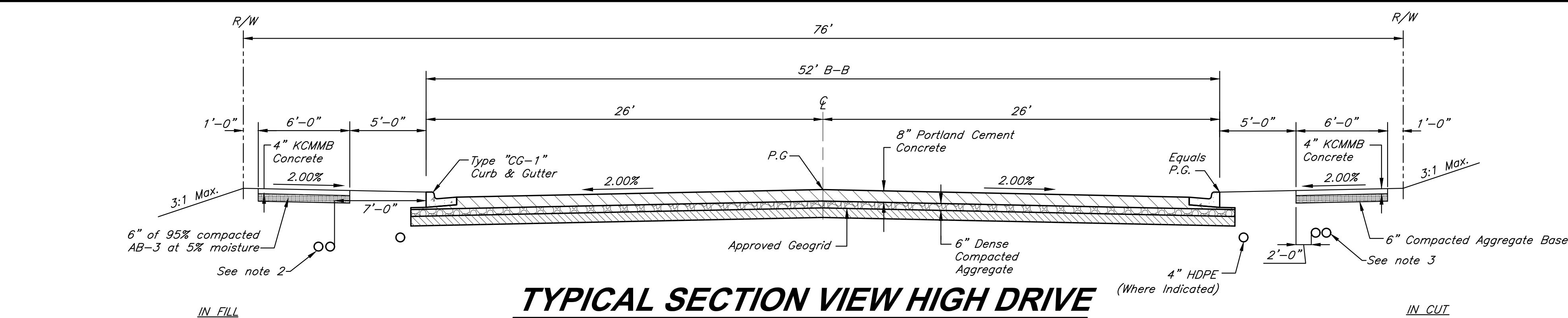
Utility:

- All Manholes, Catch Basins, Utility Valves, Meter Pits, and other utility equipment shall be adjusted or rebuilt to grade as required.
- Prior to beginning work, the Contractor shall notify all utility companies who have facilities in the vicinity of the project area of the work to be performed.
- All Utility extensions and construction shall conform to the Standards and Specifications of the applicable Utility Companies.

Storm Sewer:

- All RCP shall be Class III.
- All HDPE Pipe shall be ADS N-12. Pipe shall meet AASHTO M294.
- Pipe Lengths are called out from center of structure to center of structure.
- Drainage across the project site during construction shall be the Contractor's responsibility. Surface drainage shall be controlled to reduce or prevent the flow of surface water onto adjacent grounds. Contractor shall control downstream erosion and silting during construction. Flexibility is given to the Contractor to make minor grading revisions along roads or between building pads to improve drainage during construction, with prior approval of the engineer.
- Prior to ordering precast storm sewer structures, Contractor shall provide shop drawings to the Engineer for review and approval.

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720003000.dwg Layout: 4 Typical Sections -- Thursday April 06, 2023, 3:19pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



GBA
architects
engineers
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Title: Senior Associate
Firm: GBA
RECORD DRAWING

DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. 4
TOTAL SHEETS 104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
9/2/20		City Comments		
11/23/20		Utility Updates		

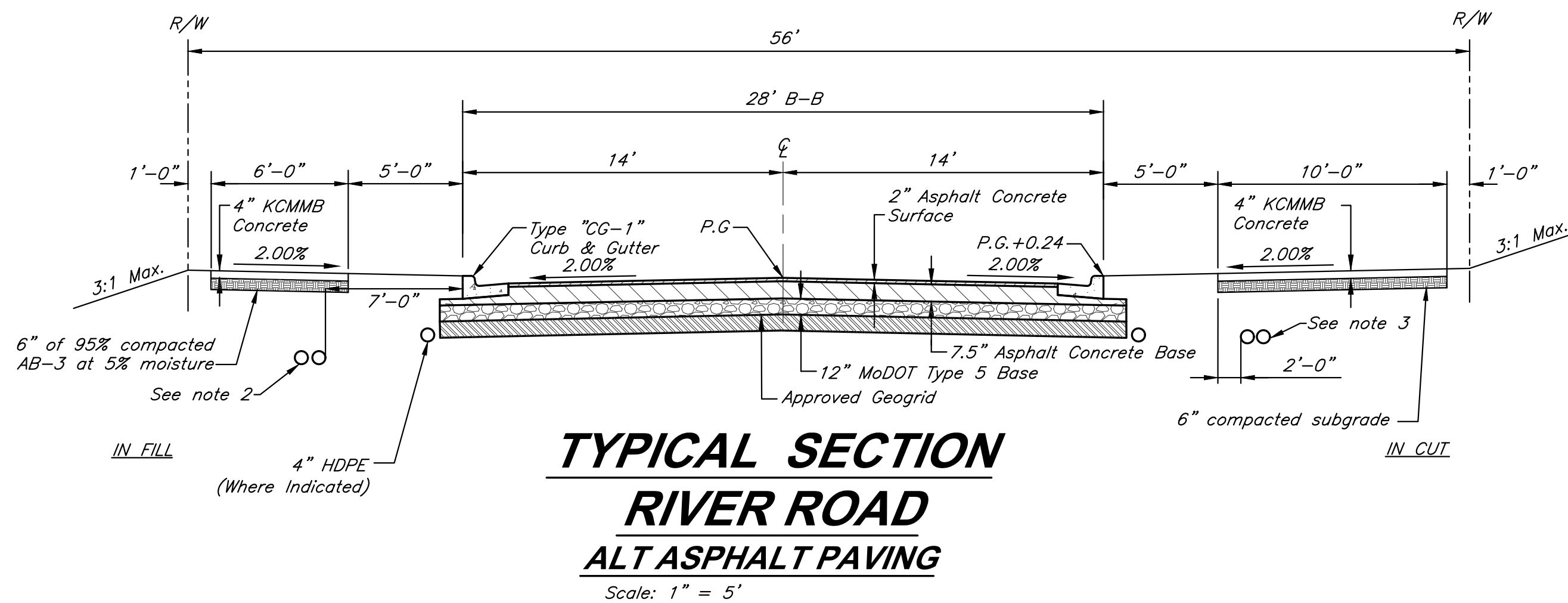
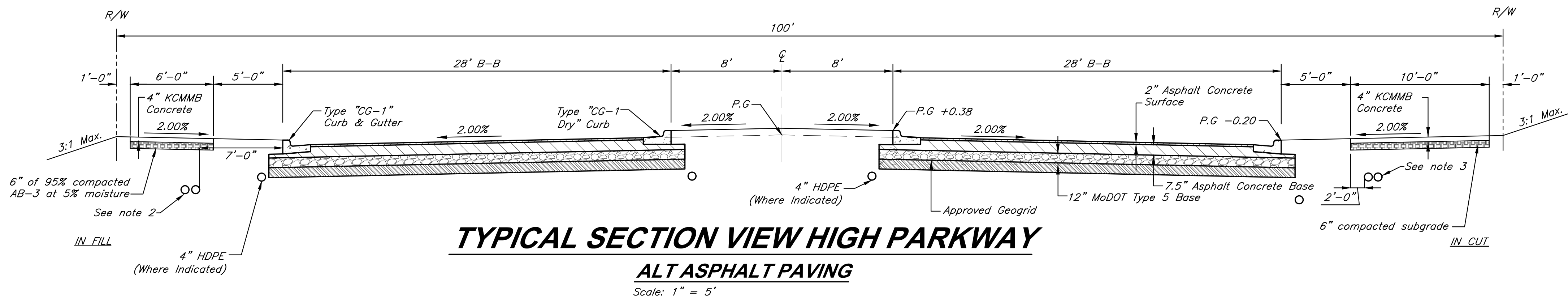
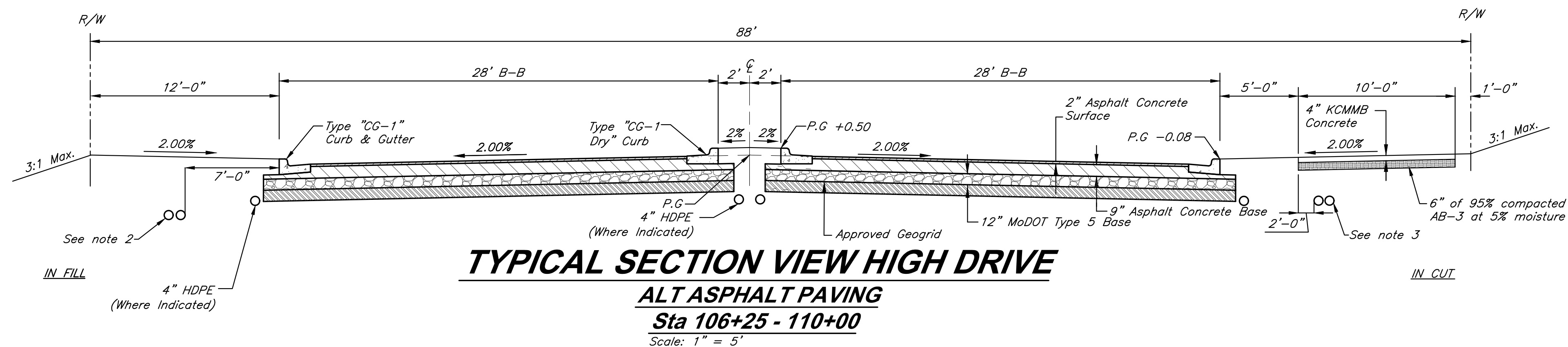
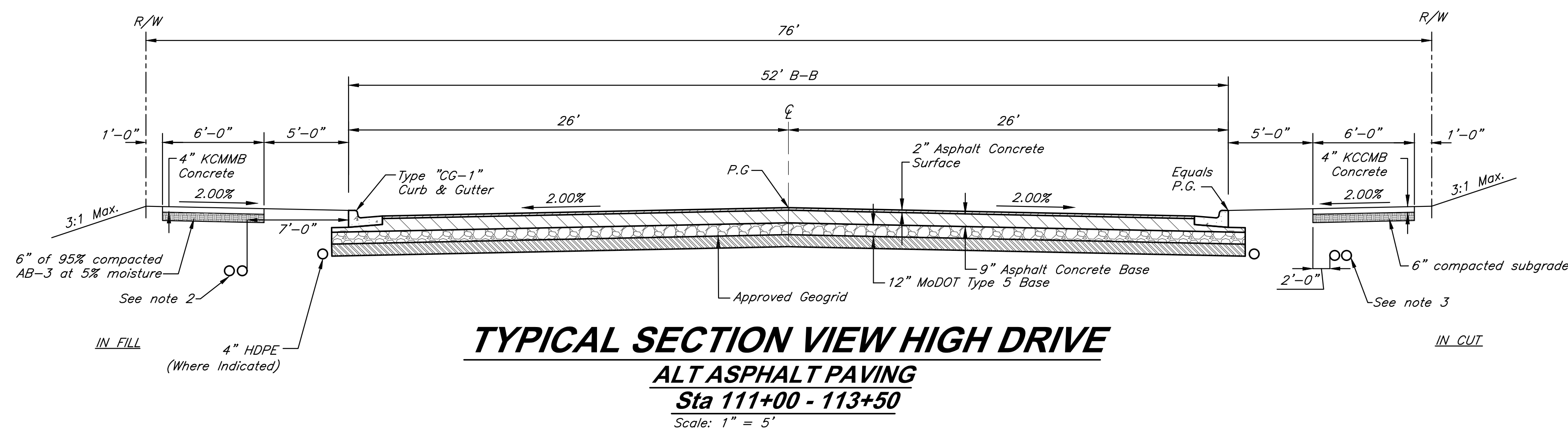
- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

NOTES:

1. All paving shall adhere to Lee's Summit Standards, Section 2200.
2. Install Two 5" PVC Schedule 40 electrical conduit. Minimum 41" depth from final grade to top of conduit with buried electric line plastic caution tape at a depth of 12" per utility standards.
3. Install Two 4" PVC Schedule 40 electrical conduit. Minimum 30" depth from final grade to top of conduit with buried electric line plastic caution tape at a depth of 12" per utility standards.

As-Built: "400-00 100.10", "4-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Typical Sections



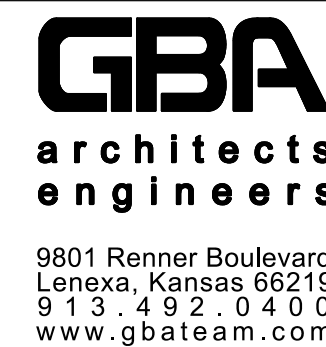
The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes, and it is solely based on information obtained by GBA.

Date: 4/7/23 

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING



DATE: 6-25-2020	
DESIGN BY: CEL	
DRAWN BY: DRV	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
5	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVE
	9/2/20	City Comments		
	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15—Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

NOTES:

1. All paving shall adhere to Lee's Summit Standards, Section 2200.
2. Install Two 5" PVC Schedule 40 electrical conduit, Minimum 41" depth from final grade to top of conduit with buried electric line plastic caution tape at a depth of 12" per utility standards.
3. Install Two 4" PVC Schedule 40 electrical conduit, Minimum 30" depth from final grade to top of conduit with buried electric line plastic caution tape at a depth of 12" per utility standards.

As-Built: "~~+00.00~~ 100.10", "~~+0.0%~~ 1.15% slope", or "~~8-inch HDPE~~ PVC pipe" are all typical examples of revisions that indicate the design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272000000.dwg Layout: 6 Demolition Plan -- Thursday April 06, 2023, 3:19pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA

architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO. 6

TOTAL SHEETS 104

Bradley D. Burton

Professional Engineer

License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
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- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

- Notes:
1. All material to be removed shall be disposed of off site by contractor. All disposal shall meet all applicable local, state, and federal guidelines.
 2. Trees marked for removal shall be completely removed, including root balls.
 3. All pavement and concrete shall be cleanly sawcut prior to removal.
 4. All demolition shall be as per these plans and shall adhere to all local, state, and federal laws, ordinances, codes, and statutes governing such demolition.
 5. Contractor shall remove any existing facilities as required to complete the construction of all site improvements detailed on these plans.
 6. Any utility relocation shall be performed by respective Utility companies.
 7. Stapling, nailing or otherwise attaching materials to trees to be preserved is not allowed.

TO BE REMOVED:	
Asphalt	5210 SY
Curb and Gutter	100 LF
Street Signs	4
Fence	220 LF
Guardrail	188 LF
4'x2.5' FO Vault	1
18" CMP	34 LF

- LEGEND
- Existing asphalt pavement to be removed
- Existing site features to be removed
- Limits of Disturbance

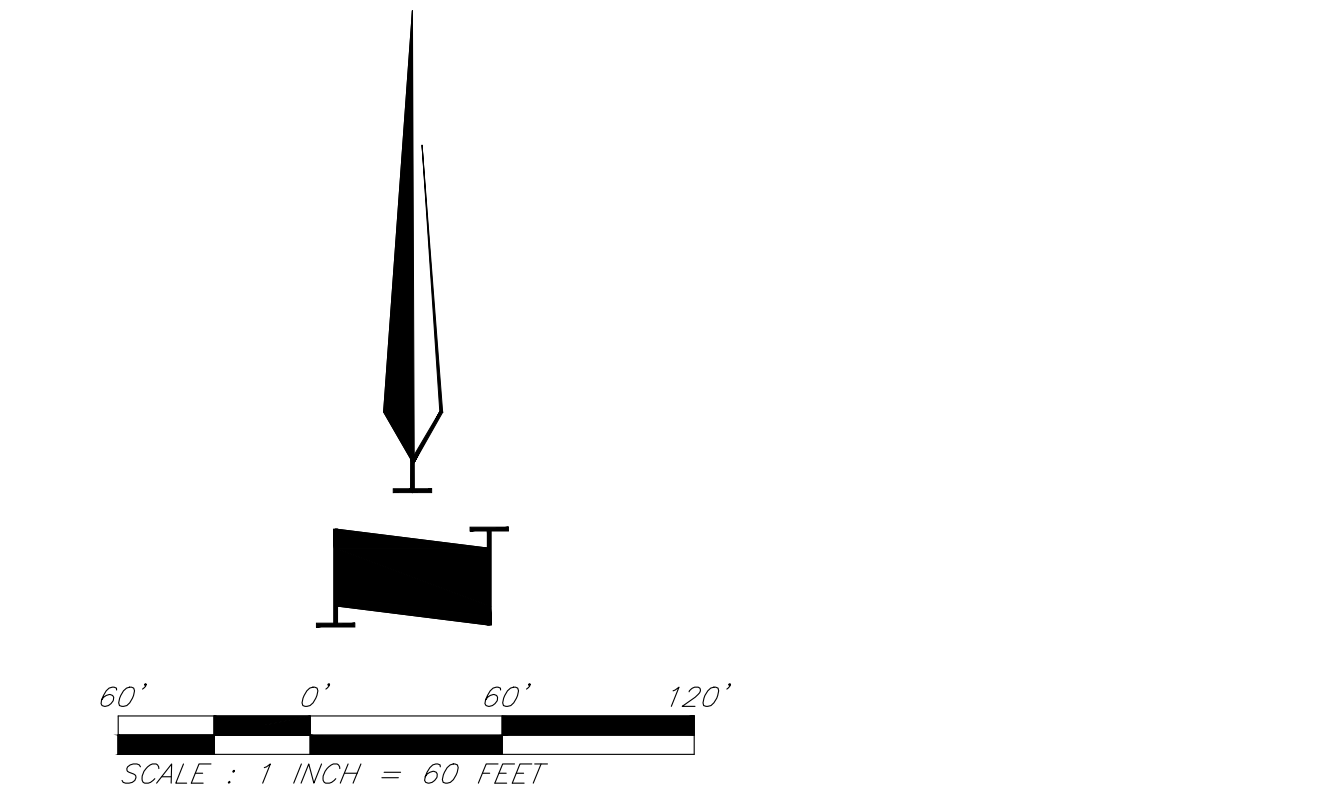
CAUTION!

Existing Utilities shown per the best information available to the Engineer. Contractor to locate existing utilities and irrigation system prior to construction

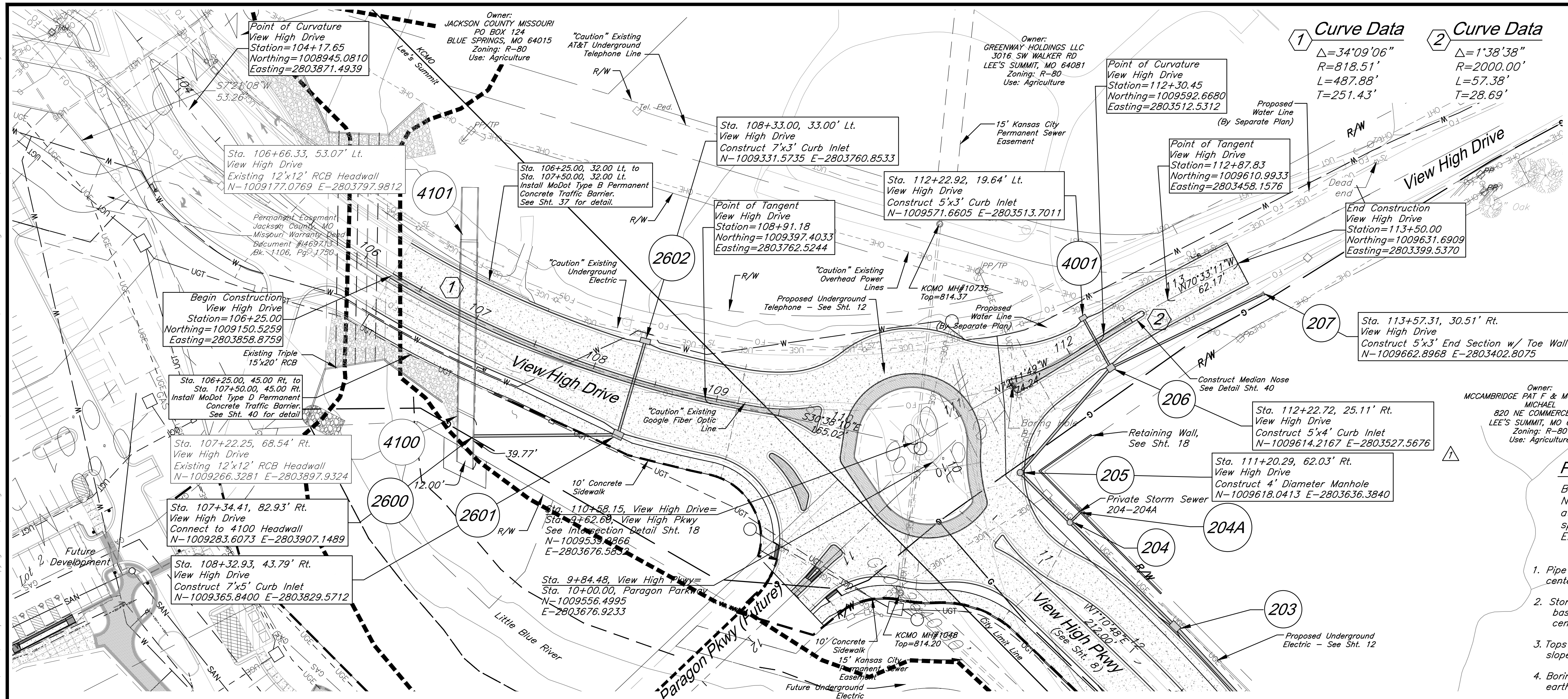
PROJECT BENCHMARKS

BM #11 - Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of 1470 bridge spanning View High Drive.

EL=833.80



Demolition Plan



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Date: 4/7/23 

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

GBA
architects
engineers

DATE: 6-25-2020	
DESIGN BY: CEL	
DRAWN BY: DRV	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
7	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

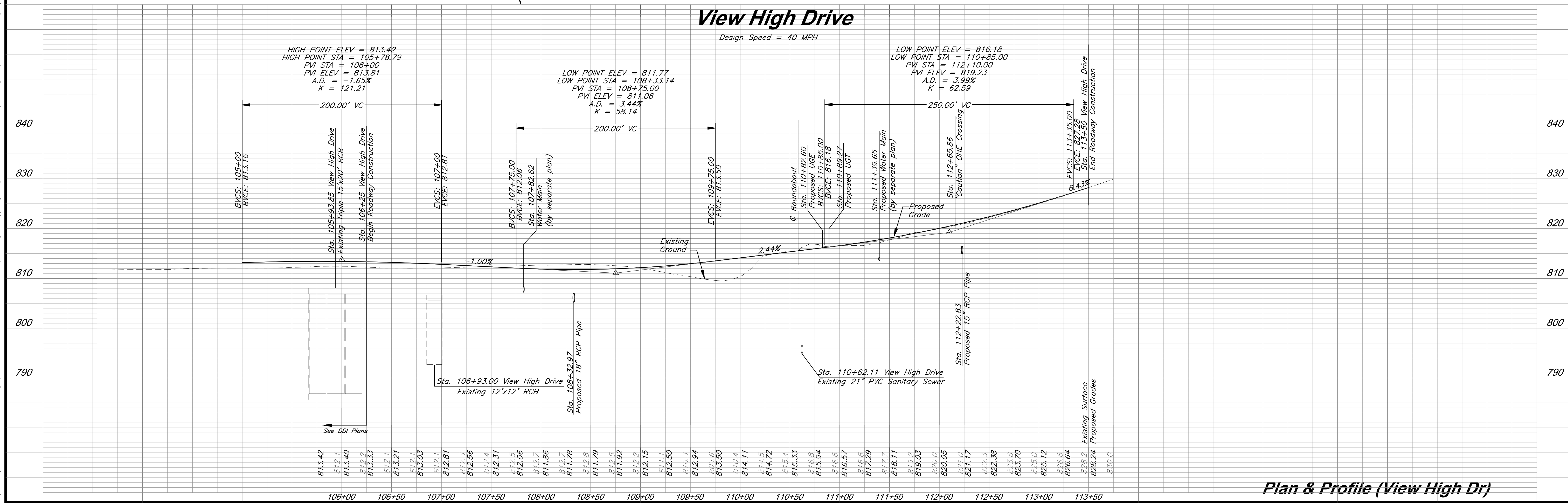
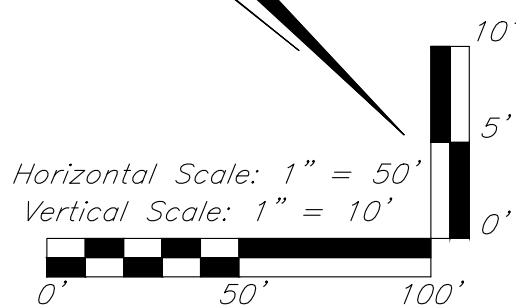
NO.	DATE	REVISIONS	BY	APPROVE
	9/2/20	City Comments		
	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
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6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15—Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

As-Built: "100.00 100.10", "1.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate the design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

PROJECT BENCHMARK

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of 1470 bridge
spanning View High Drive.
EL=833.80

1. Pipe length called out is from center of structure to center of structure.
2. Storm Sewer Structure Station offset and coordinates based on center of structure. Top elevations are top center of lid.
3. Tops on all in grade inlets shall maintain street slope, low point inlets to be set level.
4. Boring information based on original undisturbed earth - see Geotechnical report.

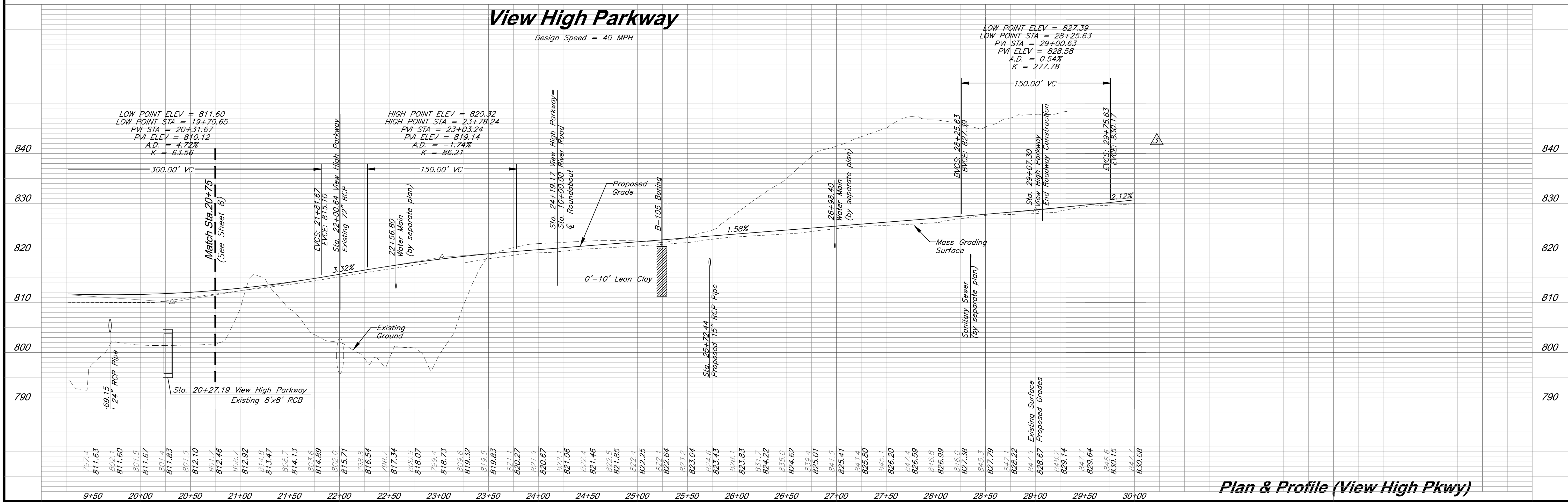
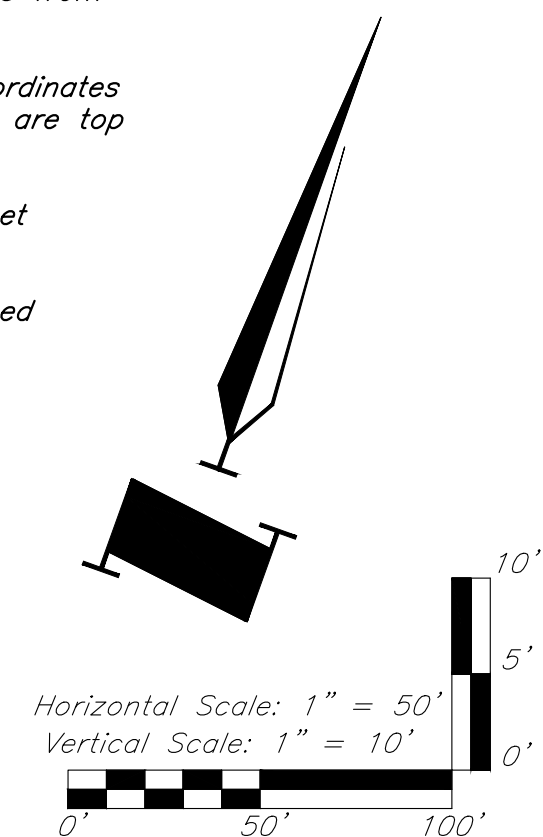


Bradley D. Burton Professional Engineer License No. 25862	<i>Street and Storm Sewer Plans</i> <i>Paragon Star Development</i> <i>Lee's Summit, Missouri</i>
---	--

1	1/27/21	Revised Structure Size	As-Built: "100-00 100.10" "s=00% 1.15% slope", or "8-inch HDPE PVC pipe" are all
2	2/4/21	Retaining Wall Station & Offsets	typical examples of revisions that indicate that
3	2/26/21	RFI 11	design data has been replaced with "as-built" information. All other data is as designed and
4	3/11/21	RFI 12	has not been field verified.
5	4/3/21	Revised Line 400	
6	4/8/21	Utility Updates	
7	5/25/21	Paver Revision	
8	6/15/21	Grading Updates	
9	6/24/21	Wiring Diagram Updates	
10	9/30/21	RFI 15—Irrigation Sleeves	
11	9/30/22	Record Drawings	
12	4/7/23	Record Drawings	

- ## PROJECT BENCHMARK

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of 1470 bridge
spanning View High Drive.
EL=833.80

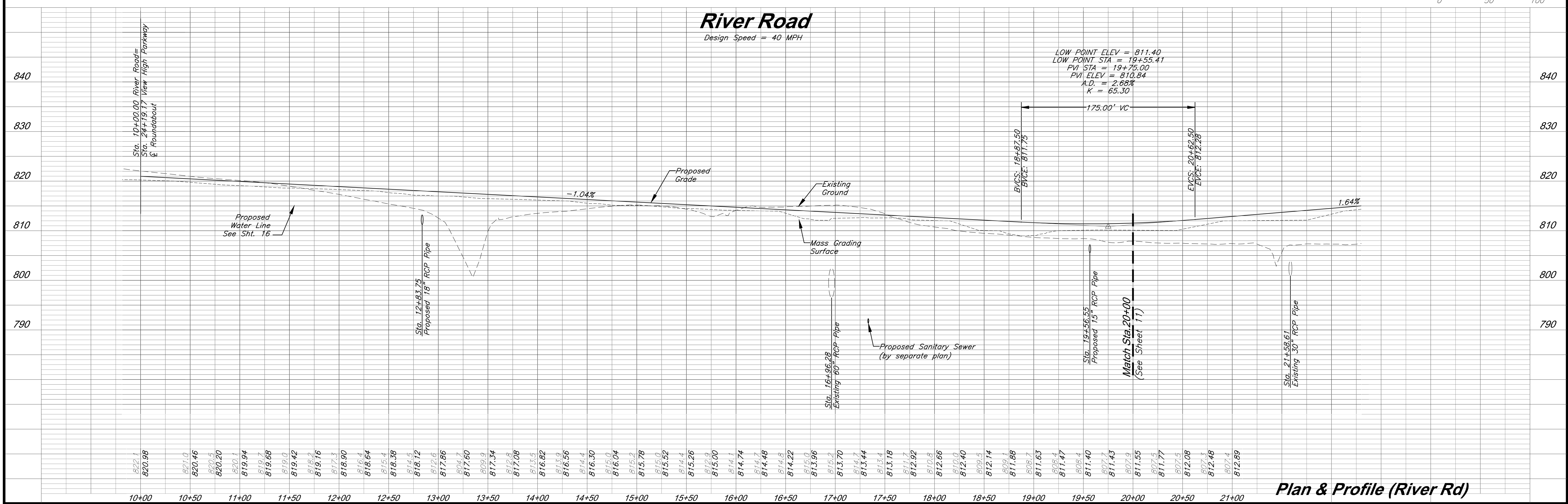


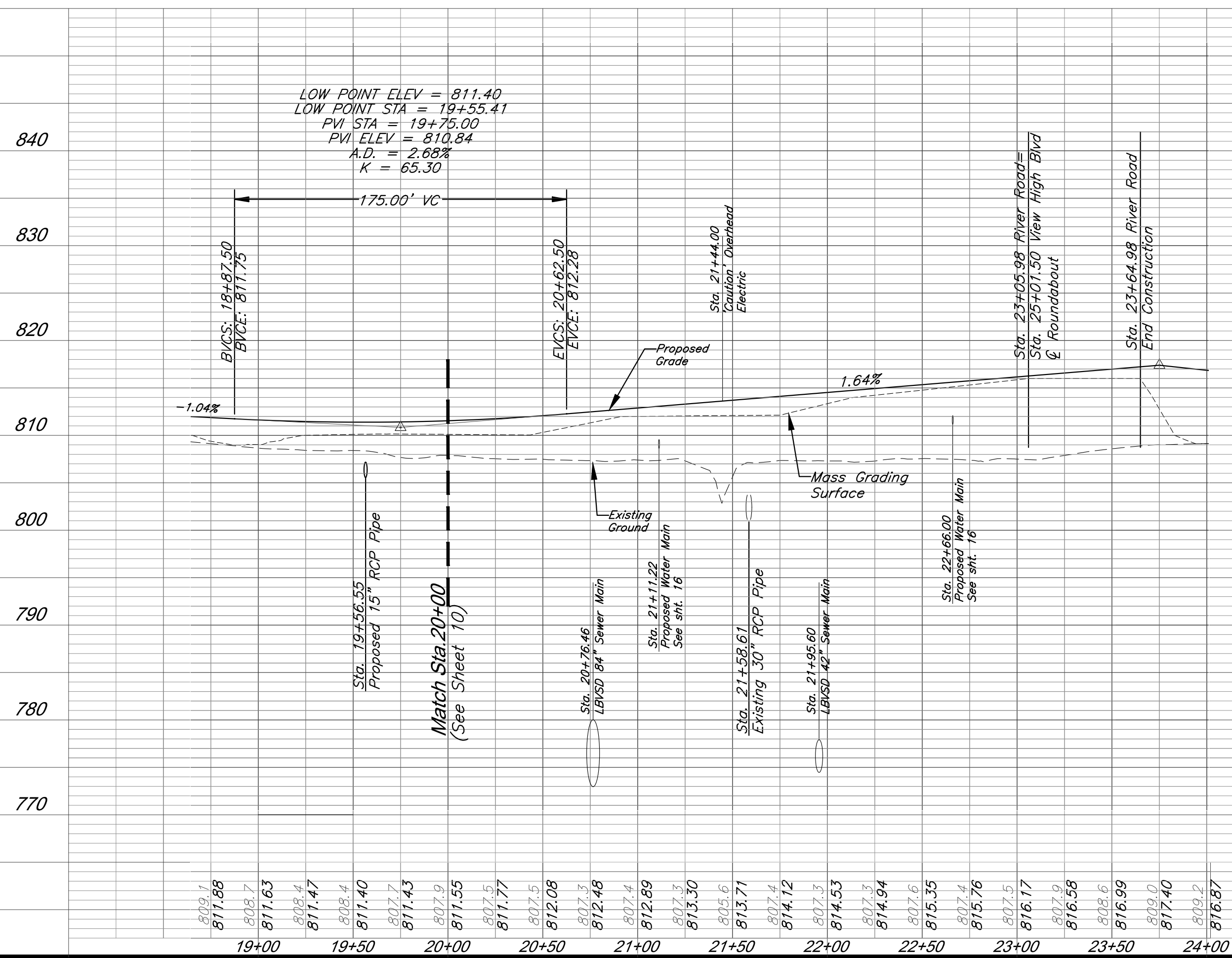
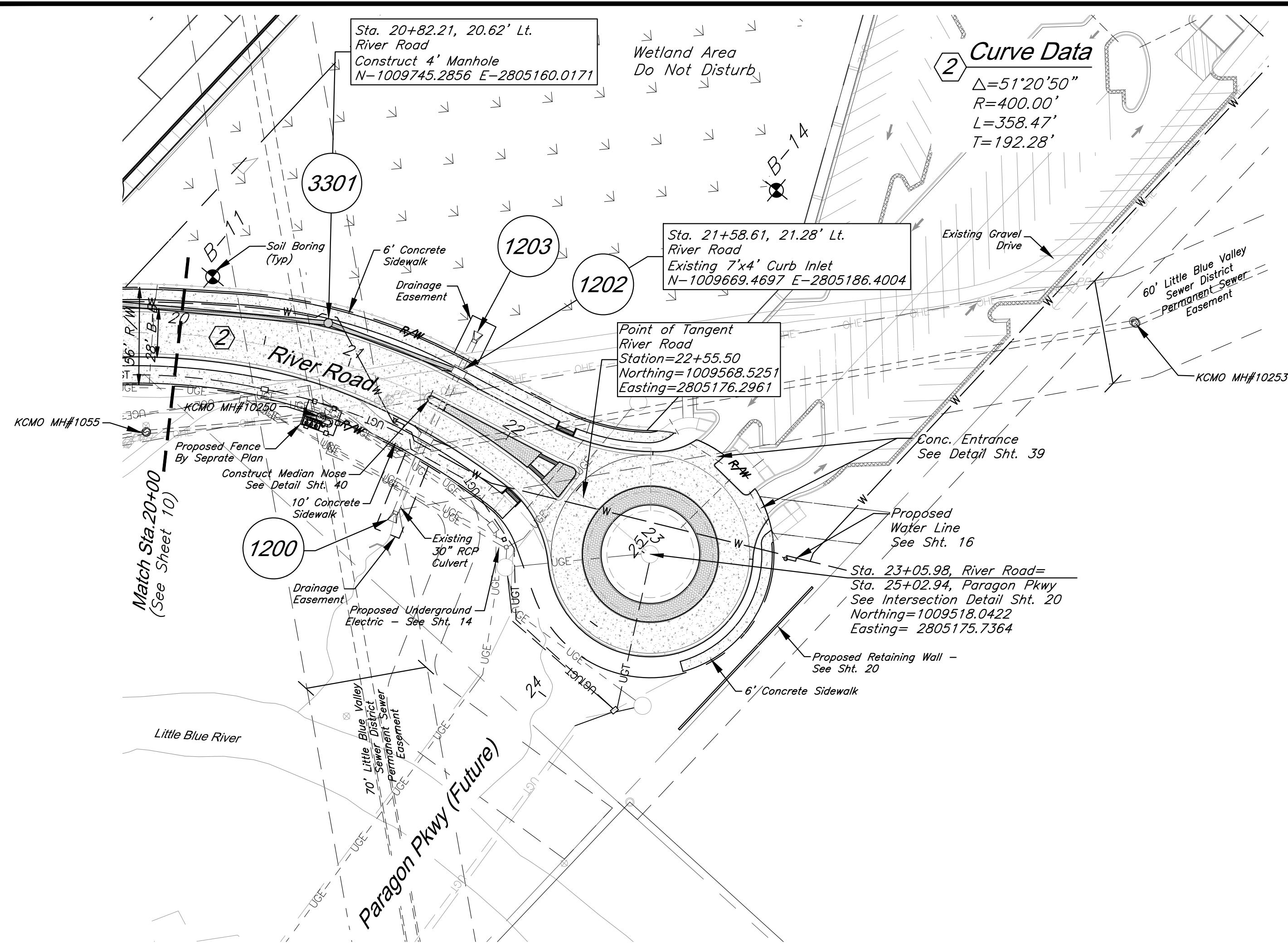
Bradley D. Burton Professional Engineer License No. 25862	<i>Street and Storm Sewer Plans</i> <i>Paragon Star Development</i> <i>Lee's Summit, Missouri</i>
---	--

1	1/27/21	Revised Structure Size	As-Built: "400x90 100.10", "400x 1.15% slope", or "8-inch HDPE PVC pipe" are all
2	2/4/21	Retaining Wall Station & Offsets	typical examples of revisions that indicate that
3	2/26/21	RFT 11	design data has been replaced with "as-built" information. All other data is as designed and
3	3/11/21	RFT 12	has not been field verified.
4	3/11/21	Revised Line 400	
5	4/8/21	Utility Updates	
6	5/25/21	Paver Revision	
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8	6/24/21	Wiring Diagram Updates	
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10	9/30/22	Record Drawings	
11	4/7/23	Record Drawings	

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of 1470 bridge
spanning View High Drive.
EL=833.80

-
- Horizontal Scale: 1" = 50'
Vertical Scale: 1" = 10'
- 0' 50' 100'
- 0' 5' 10'





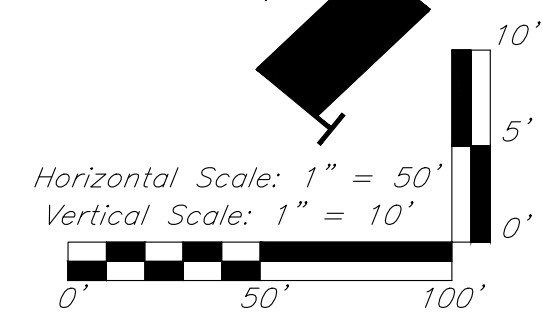
River Road
Design Speed = 40 MPH

Notes:

1. *Pipe length called out is from center of structure to center of structure. Payment for pipe length is from inside face to inside face of structure.*
2. *Storm Sewer Structure Station offset and coordinates based on center of structure. Top elevations are top center of lid.*
3. *Taps on all in grade inlets shall maintain street slope, low point inlets to be set level.*
4. *Boring information based on original undisturbed earth – see Geotechnical report.*

PROJECT BENCHMARKS

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of 1470 bridge
spanning View High Drive.
EL=833.80



Plan & Profile (River Rd)

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272009000 (View High Pkwy)dwg Layout: 12 Utility Plan (View High Dr) -- Thursday April 06, 2023, 3:28pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

PROJECT BENCHMARK

BM #11 - Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of 1470 bridge spanning View High Drive. EL=833.80

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Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA
RECORD DRAWING

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architects
engineers

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. 12
TOTAL SHEETS 104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

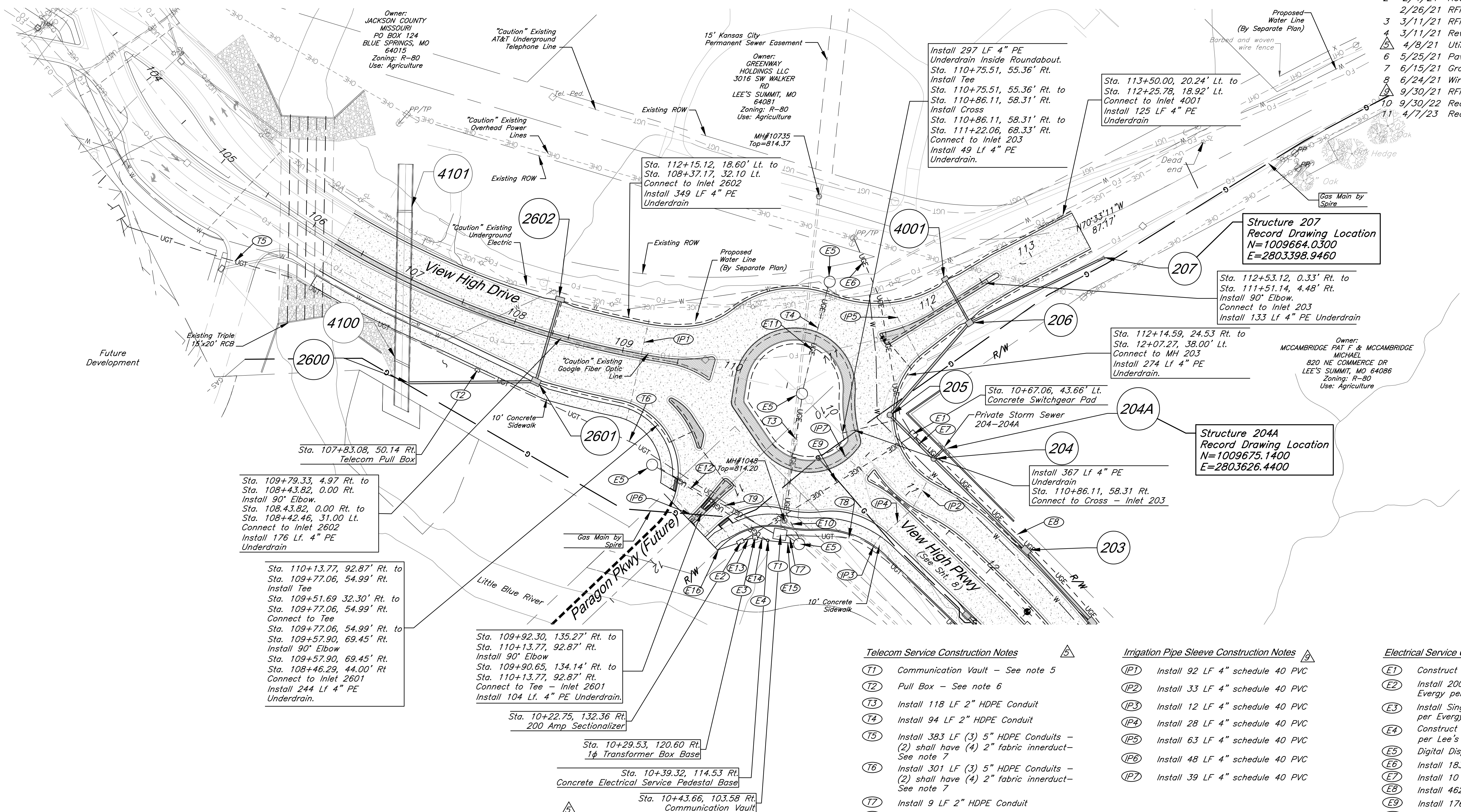
NO.	DATE	REVISIONS	BY	APPROVED
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- 1/27/21 Revised Structure Size
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- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

Notes:

1. Pipe length called out is from center of structure to center of structure.
2. Storm Sewer Structure Station offset and coordinates based on center of structure. Top elevations are top center of lid.
3. Tops on all in grade inlets shall maintain street slope, low point inlets to be set level.
4. Boring information based on original undisturbed earth - see Geotechnical report.
5. Communication Vault 11'-6"x9'-6"x7'-6" with pulling irons, drainage sump, and splice rack
6. Provide 30"x48" pre-formed polymer concrete hand hole, provide open bottom with pea gravel. Provide ANSI tire rating for traffic requirements at location. Provide quazite PG3048-Series or equivalent.
7. 2" Innerduct - Maxcell MXE52224 or equal
8. Electrical trench, conduit, and backfill per Every Standards (Typ. All). See Sheet 41 for details.
9. Conduit from electrical service pedestal to future digital display locations shall have minimum depth 24" and include locate wire.
10. Electrical service pedestal base and conduit to be constructed per Lee's Summit Details SL-4 and SL-5. Stub up primary and secondary conduit 4" above base and prep/cap for future display installation. Route conduit from electrical service pedestal to each display and stub up 6" above grade, cap for future use. See Sheet 41 for details.

As-Built: "400-90 100.10", "4-80W 1.15W slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



Telecom Service Construction Notes

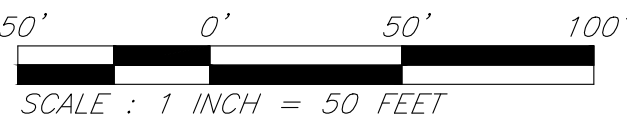
- T1 Communication Vault - See note 5
- T2 Pull Box - See note 6
- T3 Install 118 LF 2" HDPE Conduit
- T4 Install 94 LF 2" HDPE Conduit
- T5 Install 383 LF (3) 5" HDPE Conduits - (2) shall have (4) 2" fabric innerduct - See note 7
- T6 Install 301 LF (3) 5" HDPE Conduits - (2) shall have (4) 2" fabric innerduct - See note 7
- T7 Install 9 LF 2" HDPE Conduit
- T8 Install 399 LF (3) 5" HDPE Conduits - (2) shall have (4) 2" fabric innerduct - See note 7
- T9 Install 120 LF 2" HDPE Conduit

Irrigation Pipe Sleeve Construction Notes

- IP1 Install 92 LF 4" schedule 40 PVC
- IP2 Install 33 LF 4" schedule 40 PVC
- IP3 Install 12 LF 4" schedule 40 PVC
- IP4 Install 28 LF 4" schedule 40 PVC
- IP5 Install 63 LF 4" schedule 40 PVC
- IP6 Install 48 LF 4" schedule 40 PVC
- IP7 Install 39 LF 4" schedule 40 PVC

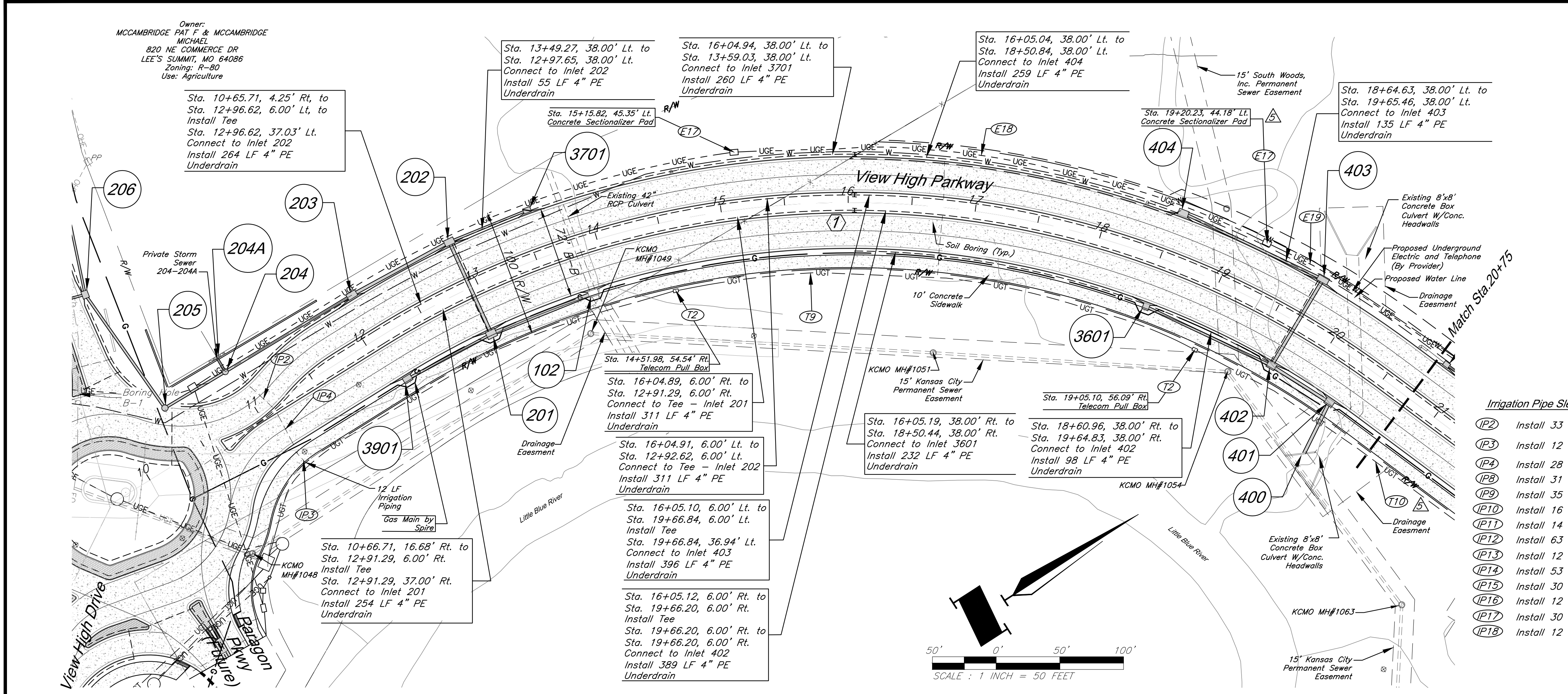
Electrical Service Construction Notes

- E1 Construct Switchgear Pad per Every Detail 700-109
- E2 Install 200 Amp Sectionalizer Furnished by Every per Detail 760.1-3
- E3 Install Single-Phase Transformer Premolded Box Base per Every Detail 700-102
- E4 Construct Electrical Service Pedestal Concrete Base per Lee's Summit Detail SL-4
- E5 Digital Display Location
- E6 Install 183 LF 6" PVC Conduit
- E7 Install 10 LF 4" PVC Conduit
- E8 Install 462 LF 6" PVC Conduit
- E9 Install 176 LF 4" PVC
- E10 Install 129 LF (2) 2" PVC Conduits
- E11 Install 94 LF 2" PVC Conduit
- E12 Install 125 LF 2" PVC Conduit
- E13 Install 9 LF 2" PVC Conduit
- E14 Install 9 LF 3" PVC Conduit
- E15 Install 23 LF (2) 2" PVC Conduits
- E16 Install 18 LF 4" PVC Conduit



Utility Plan (View High Dr)

G:\12220\Civil 3D Production Drawings\Street & Storm Plans\12220C0900 (View High Pkwy)\dwg Layout: 13 Utility (View High Pkwy) --- Thursday April 06, 2023, 3:29pm --- Copyright 2023, George Butler Associates, Inc. Architect 20212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA

RECORD DRAWING

Bradley D. Burton
Professional Engineer
License No. 25862

GBA
architects
engineers

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www.gbateam.com

DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. 13
TOTAL SHEETS 104

Street and Storm Sewer Plans		Paragon Star Development		Lee's Summit, Missouri	
NO.	DATE	REVISIONS	BY	APPROVED	

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
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- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

PROJECT BENCHMARK

BM #11 - Chiseled "L" on top
Northeast corner of concrete
guardrail at the Northeast corner of
1470 bridge spanning View High Drive.
EL=833.80

Irrigation Pipe Sleeve Construction Notes

- IP2 Install 33 LF 4" schedule 40 PVC
- IP3 Install 12 LF 4" schedule 40 PVC
- IP4 Install 28 LF 4" schedule 40 PVC
- IP8 Install 31 LF 4" schedule 40 PVC
- IP9 Install 35 LF 4" schedule 40 PVC
- IP10 Install 16 LF 4" schedule 40 PVC
- IP11 Install 14 LF 4" schedule 40 PVC
- IP12 Install 63 LF 4" schedule 40 PVC
- IP13 Install 12 LF 4" schedule 40 PVC
- IP14 Install 53 LF 4" schedule 40 PVC
- IP15 Install 30 LF 4" schedule 40 PVC
- IP16 Install 12 LF 4" schedule 40 PVC
- IP17 Install 30 LF 4" schedule 40 PVC
- IP18 Install 12 LF 4" schedule 40 PVC

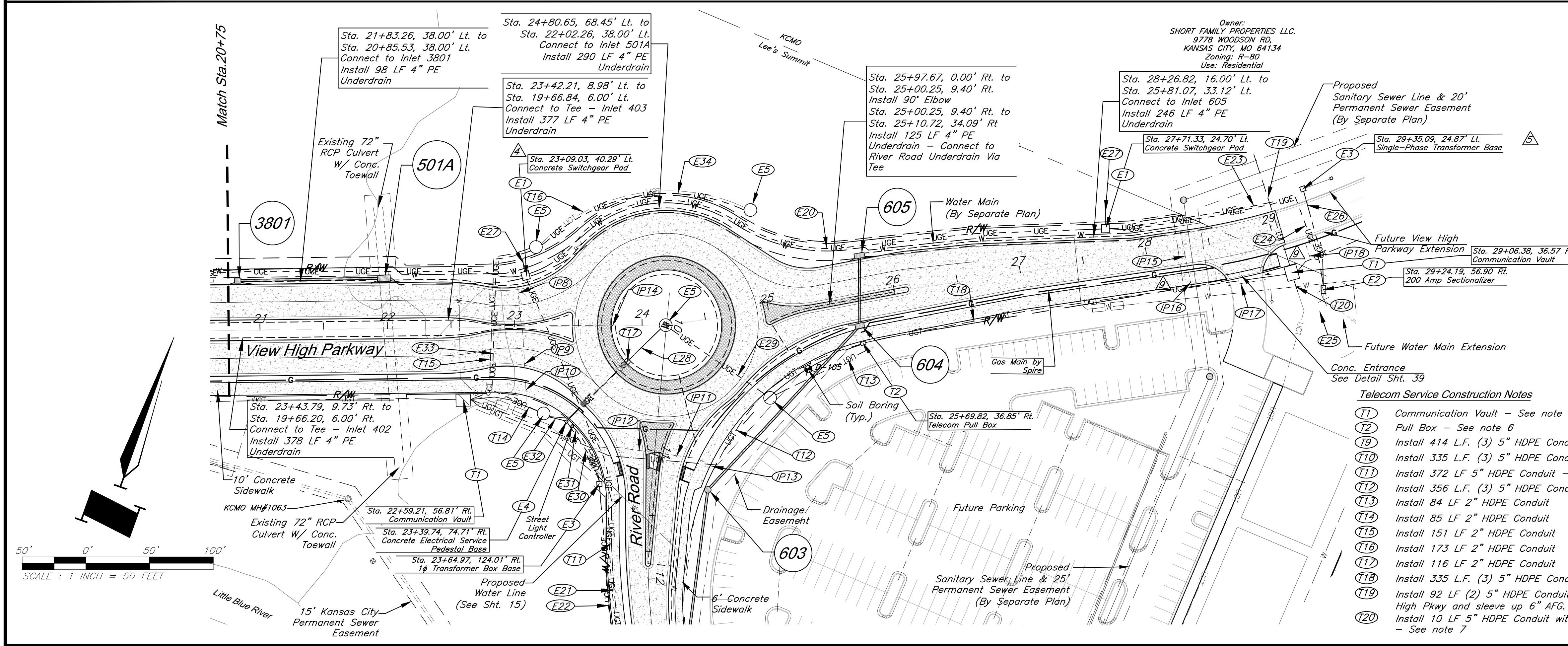
Electrical Service Construction Notes

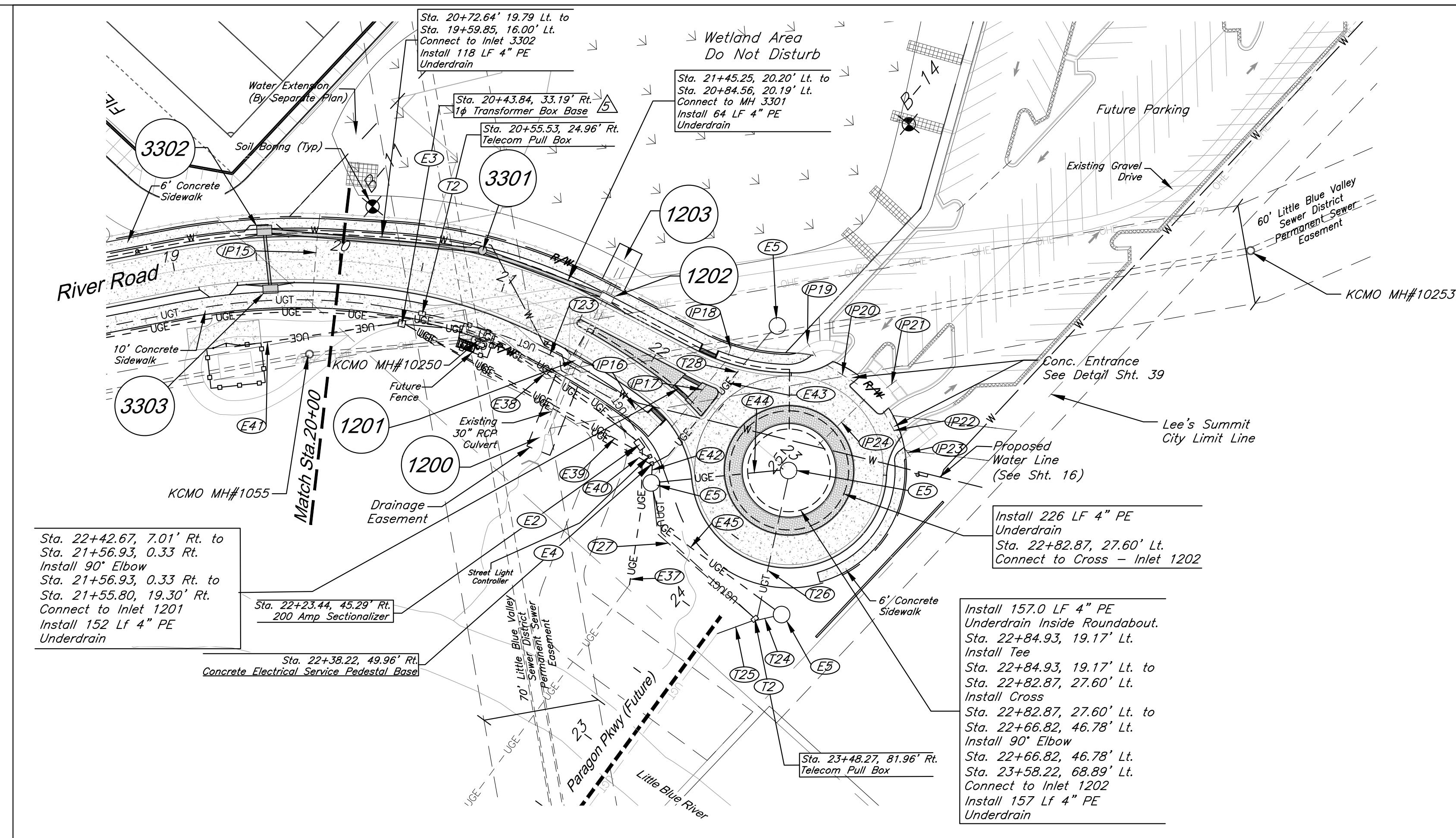
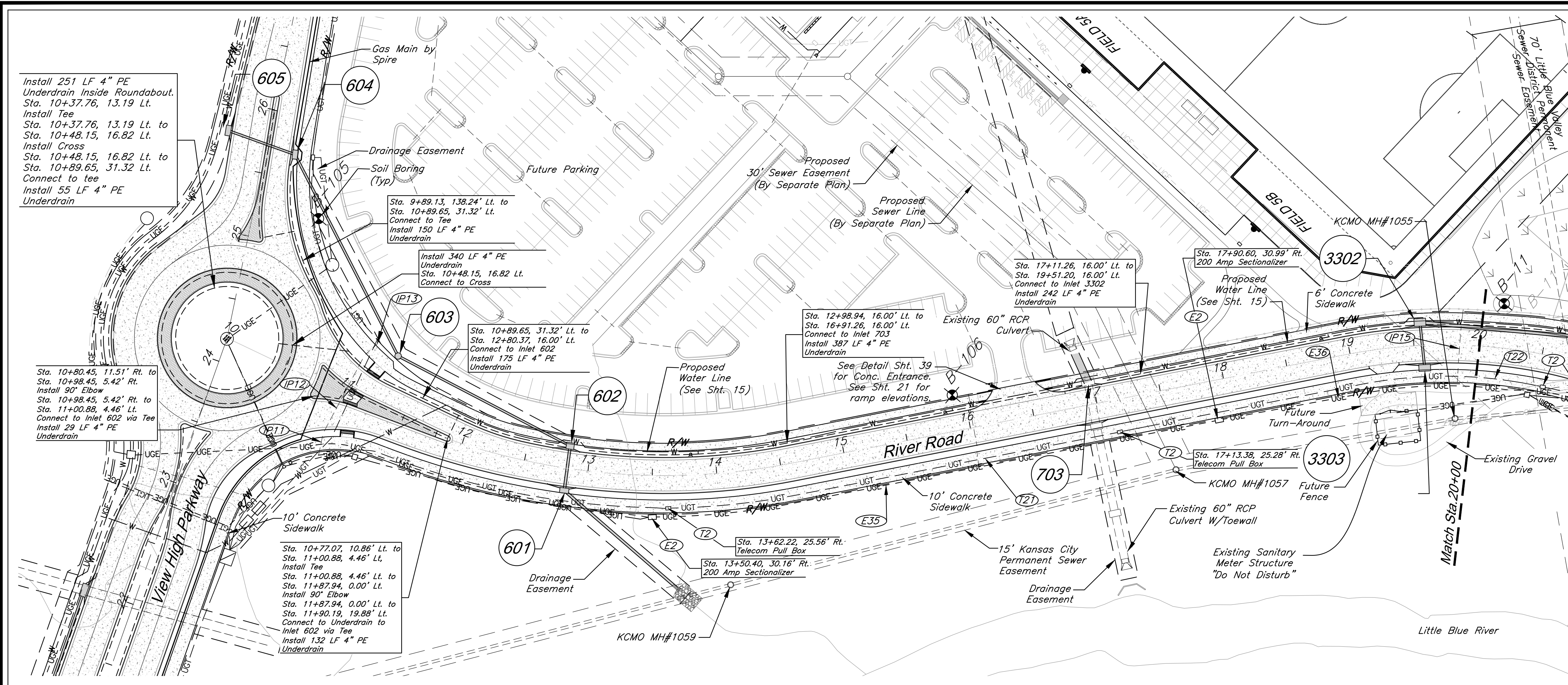
- E1 Construct Switchgear Pad per Every Detail 700-109
- E2 Install 200 Amp Sectionalizer Furnished by Every per Detail 760.1-3
- E3 Install Single-Phase Transformer Premolded Box Base per Every Detail 700-102
- E4 Construct Electrical Service Pedestal Concrete Base per Lee's Summit Detail SL-4
- E5 Digital Display Location
- E17 Construct 600 Amp Sectionalizer Pad per Every Detail 700-106
- E18 Install 424 LF 6" PVC Conduit
- E19 Install 392 LF 6" PVC Conduit
- E20 Install 476 LF 6" PVC Conduit
- E21 Install 406 LF 4" PVC Conduit
- E22 Install 232 LF 2" PVC Conduit
- E23 Install 131 LF 6" PVC Conduit
- E24 Install 222 LF 4" PVC Conduit
- E25 Install 15 LF 4" PVC Conduit
- E26 Install 76 LF 2" PVC Conduit
- E27 Install 10 LF 4" PVC Conduit
- E28 Install 103 LF (2) 2" PVC Conduits
- E29 Install 90 LF 2" PVC Conduit
- E30 Install 53 LF 3" PVC Conduit
- E31 Install 48 LF 3" PVC Conduit
- E32 Install 14 LF 2" PVC Conduit
- E33 Install 172 LF 2" PVC Conduit
- E34 Install 171 LF 2" PVC Conduit

Telecom Service Construction Notes

- T1 Communication Vault - See note 5
- T2 Pull Box - See note 6
- T9 Install 414 L.F. (3) 5" HDPE Conduits - (2) shall have (4) 2" fabric innerduct-See note 7
- T10 Install 335 L.F. (3) 5" HDPE Conduits - (2) shall have (4) 2" fabric innerduct-See note 7
- T11 Install 372 LF 5" HDPE Conduit - w/ (4) 2" fabric innerduct - See note 7
- T12 Install 356 L.F. (3) 5" HDPE Conduits - (2) shall have (4) 2" fabric innerduct-See note 7
- T13 Install 84 LF 2" HDPE Conduit
- T14 Install 85 LF 2" HDPE Conduit
- T15 Install 151 LF 2" HDPE Conduit
- T16 Install 173 LF 2" HDPE Conduit
- T17 Install 116 LF 2" HDPE Conduit
- T18 Install 335 L.F. (3) 5" HDPE Conduits - (2) shall have (4) 2" fabric innerduct-See note 7
- T19 Install 92 LF (2) 5" HDPE Conduits with (4) 2" fabric innerducts under View High Pkwy and sleeve up 6" AFG. See note 7
- T20 Install 10 LF 5" HDPE Conduit with (4) 2" fabric innerduct - See note 7

Utility (View High Pkwy)





Irrigation Pipe Sleeve Construction Notes / 9

- (P11) Install 14 LF 4" schedule 40 PVC*
(P12) Install 63 LF 4" schedule 40 PVC
(P13) Install 12 LF 4" schedule 40 PVC
(P15) Install 57 LF 4" schedule 40 PVC
(P16) Install 11 LF 4" schedule 40 PVC
(P17) Install 52 LF 4" schedule 40 PVC
(P18) Install 8 LF 4" schedule 40 PVC
(P19) Install 10 LF 4" schedule 40 PVC
(P20) Install 22 LF 4" schedule 40 PVC
(P21) Install 8 LF 4" schedule 40 PVC
(P22) Install 22 LF 4" schedule 40 PVC
(P23) Install 7 LF 4" schedule 40 PVC
(P24) Install 40 LF 4" schedule 40 PVC

PROJECT BENCHMARKS

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of 1470 bridge
spanning View High Drive.
EL=833.80

Telecom Service Construction Notes

- Section 16000 - Electrical - Section Notes**
- (12) Pull Box - See note 6
- (121) Install 352 L.F. 5" HDPE Conduit - w/ (4) 2" fabric innerduct-See note 7
- (122) Install 329 L.F. 5" HDPE Conduit - w/ (4) 2" fabric innerduct-See note 7
- (123) Install 294 L.F. 5" HDPE Conduit - w/ (4) 2" fabric innerduct-See note 7
- (124) Install 11 LF 2" HDPE Conduit
- (125) Install 23 L.F. 5" HDPE Conduit - w/ (4) 2" fabric innerduct-See note 7.
Continue per Bridge Plans
- (126) Install 86 LF 2" HDPE Conduit
- (127) Install 103 LF 2" HDPE Conduit
- (128) Install 113 LF 2" HDPE Conduit
- Util**

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Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA
RECORD DRAWING

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architects
engineers

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Lenexa, Kansas 66219
913.492.0400
www.gbteam.com

DATE: 6-25-2020	
DESIGN BY: CEL	
DRAWN BY: DRV	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
14	104

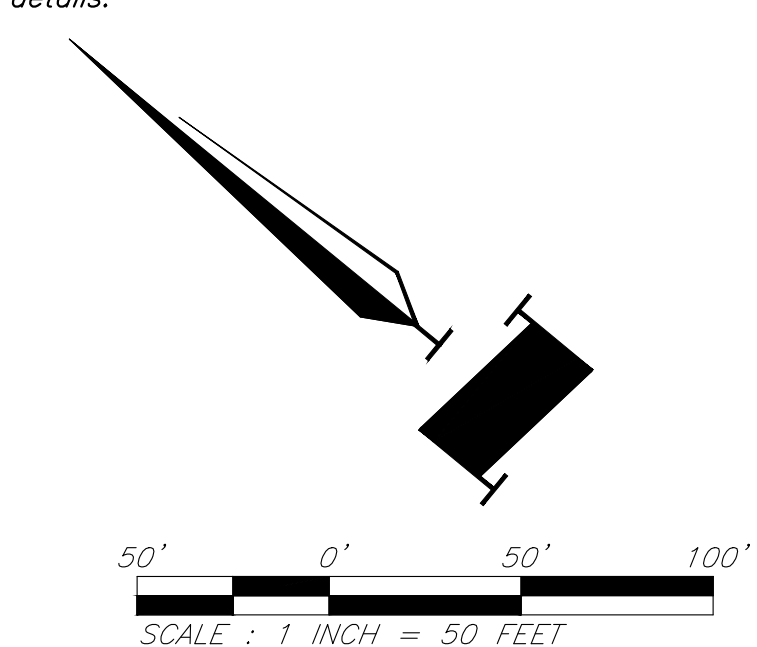
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- | | | | |
|----|---------|----------------------------------|--|
| 1 | 1/27/21 | Revised Structure Size | As-Built: "400-60 100.10", "5-60% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified. |
| 2 | 2/4/21 | Retaining Wall Station & Offsets | |
| 2 | 2/26/21 | RFI 11 | |
| 3 | 3/11/21 | RFI 12 | |
| 3 | 3/11/21 | Revised Line 400 | |
| △ | 4/8/21 | Utility Updates | |
| 6 | 5/25/21 | Paver Revision | |
| 7 | 6/15/21 | Grading Updates | |
| 8 | 6/24/21 | Wiring Diagram Updates | |
| △ | 9/30/21 | RFI 15-Irrigation Sleeves | |
| 10 | 9/30/22 | Record Drawings | |
| 11 | 4/7/23 | Record Drawings | |
- Sta. 20+55.33, 24.83' Rt. △
 (eaten Full Box

Notes:

1. Typical  Length called out is from center of structure to center of structure.
2. Storm Sewer Structure Station offset and coordinates based on center of structure. Top elevations are top center of lid.
3. Tops on all grade inlets shall maintain street slope, low point inlets to be set level.
4. Boring information based on original undisturbed earth – see Geotechnical report.
5. Communication Vault 11'-6"x9'-6"x7'-6" with pulling irons, drainage sump, and splice rack
6. Provide 30"x48" pre-formed polymer concrete hand hole, provide open bottom with pea gravel. Provide ANSI tire rating for traffic requirements at location. Provide quazite PG3048-Series or equivalent.
7. 2" Innerduct – Maxcell MXE52224 or equal
8. Electrical trench, conduit, and backfill per Every Standards (Typ. All). See Sheet 41 for details.
9. Conduit from electrical service pedestal to future digital display locations shall have minimum depth 24" and include locate wire.
10. Electrical service pedestal base and conduit to be constructed per Lee's Summit Details SL-4 and SL-5. Stub up primary and secondary conduit 4" above base and prep/cap for future display installation. Route conduit from electrical service pedestal to each display and stub up 6" above grade, cap for future use. See Sheet 41 for details.



Electrical Service Construction Notes

- (E2) Install 200 Amp Sectionalizer Furnished by Every per Detail 760-1
- (E3) Install Single-Phase Transformer Premolded Box Base per Every Detail 700-102
- (E4) Construct Electrical Service Pedestal Concrete Base per Lee's Summit Detail SL-4
- (E5) Digital Display Location
- (E35) Install 441 LF 4" PVC Conduit
- (E36) Install 402 LF 4" PVC Conduit
- (E37) Install 83 LF 4" PVC Conduit. Continue per Bridge Plans.
- (E38) Install 160 LF 2" PVC Conduit
- (E39) Install 168 LF 3" PVC Conduit
- (E40) Install 171 LF 3" PVC Conduit
- (E41) Install 100 LF 3" PVC Conduit
- (E42) Install 6 LF 2" PVC Conduit
- (E43) Install 108 LF 2" PVC Conduit
- (E44) Install 74 LF (2) 2" PVC Conduits
- (E45) Install 107 LF 2" PVC Conduit

Utility Plan (River Rd)

C:\12220\Civil 3D\Production Drawings\Street & Storm Plans\12220C1600.dwg Layout: 15 Private Water Main Line C Plan & Profiles Thursday April 06, 2023, 3:32pm --- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

Owner
Paragon Star, LLC

City of KNO
City of Lee's Summit
Proposed Water Main
(By By Separate Plan)

Proposed Drainage
Easement
Proposed Storm
Sewer

Water Main Line C Sta. 7+00.00, Rt. 2.00'
Install:
1- 6" LS Fire Hydrant
1- 6" Gate Valve
1- 90° Bend
1- 8"x8"x6" Tee w/Backing Block
N-1010096.2489
E-2804793.6720

Deflect Water Main Around Curb Inlet
Minimum 18" Vertical Clearance
Minimum 5' Horizontal Clearance
Sta. 8+01-Sta. 8+28

Water Main Line C Sta. 2+00.00, Lt. -2.00'
Install:
1- 6" LS Fire Hydrant
1- 6" Gate Valve
1- 90° Bend
1- 8"x8"x6" Tee w/Backing Block
N-1010440.6680
E-2804460.7469

Deflect Water Main Around Curb Inlet
Minimum 18" Vertical Clearance
Minimum 5' Horizontal Clearance
Sta. 3+96-Sta. 4+20

Sta. 1+02.00
Install 22.5° Bend
N-1010457.1941 E-2804365.4600

Sta. 0+82.00
Install 45° Bend w/Backing Block
N-1010465.5821 E-2804347.3039

Sta. 0+00.00 Private Water Line=
Sta. 14+00.00 Line B (By Separate
Plan). Connect 8" Class 52 DIP to
Existing Valve
Begin Construction Line C
N-1010542.5651 E-2804319.0618

Proposed Water Main
(By By Separate Plan)

Install 8" Full Flow Fire
Meter in concrete vault.

Sta. 1+60.00
Install 22.5° Bend
N-1010454.7896 E-2804425.4118

Sta. 3+03.30
Install 45° Bend w/Backing Block
N-1010395.5284 E-2804553.6811

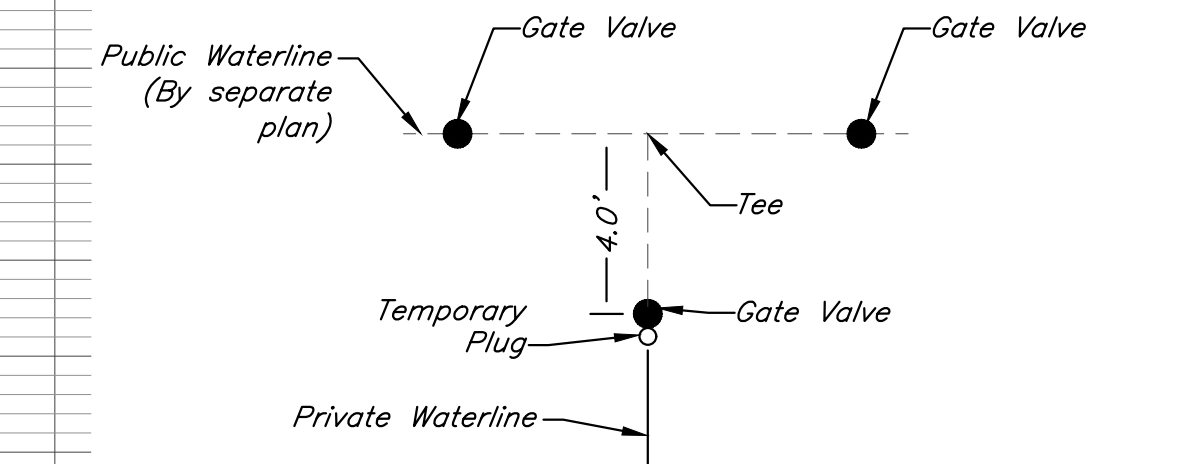
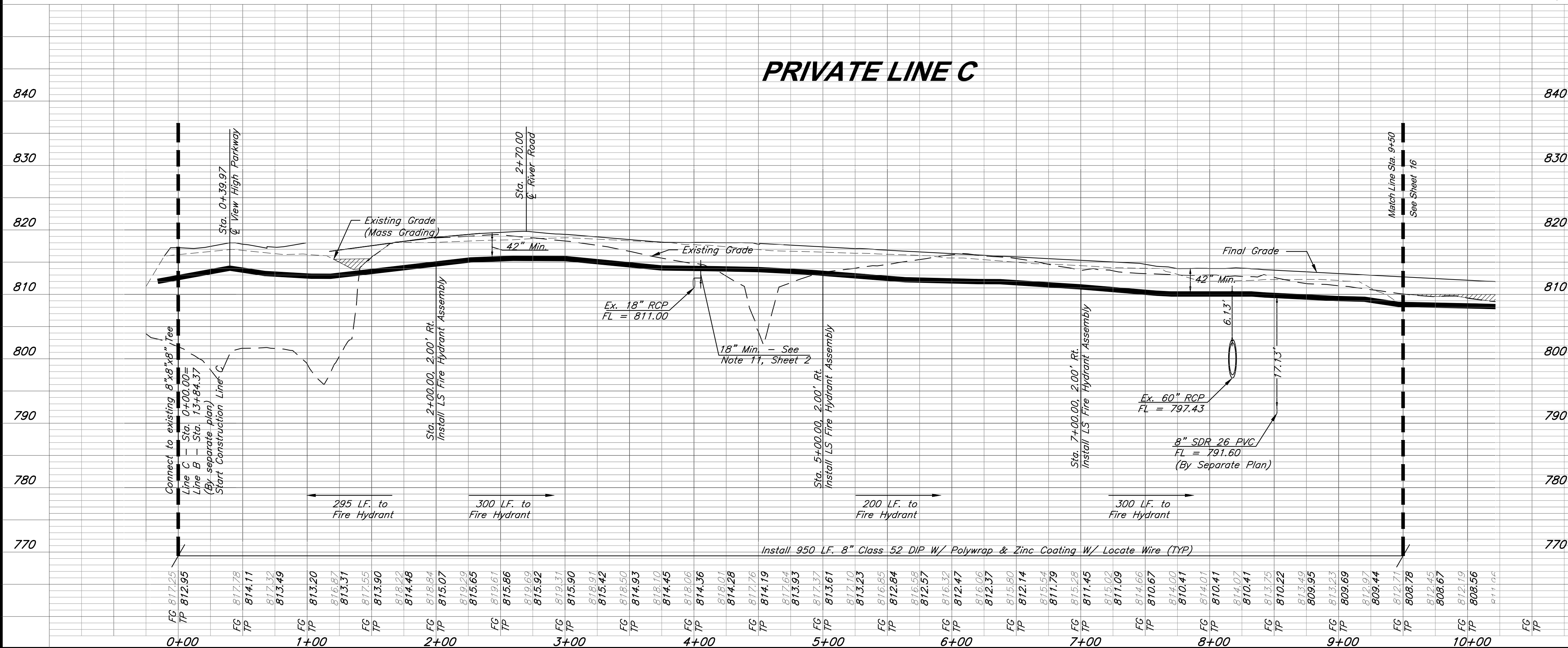
Water Main Line C Sta. 5+00.00, Rt. 2.00'
Install:
1- 6" LS Fire Hydrant
1- 6" Gate Valve
1- 90° Bend
1- 8"x8"x6" Tee w/Backing Block
N-1010226.2796
E-2804644.2913

Existing Storm Sewer

Little Blue River

15' Kansas City
Permanent Sewer
Easement

PRIVATE LINE C



Connection Detail
Restrainer Throughout
Not To Scale

Compacted placed to a minimum of
18 inches above the top of the
pipe prior to installation.

PRIVATE WATER MAIN LINE C PLAN & PROFILES

The information provided on this
drawing conforms to construction
records; it is not intended for
construction, implementation or
recording purposes; and it is solely
based on information obtained by
GBA.
Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA
RECORD DRAWING

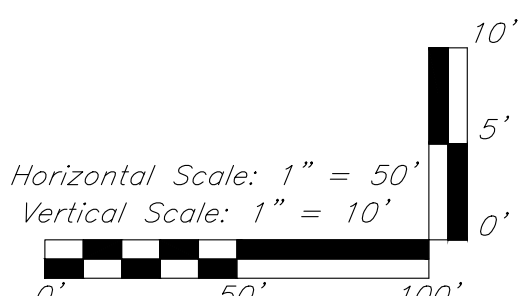
GBA
architects
engineers
9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. 15
TOTAL SHEETS 104

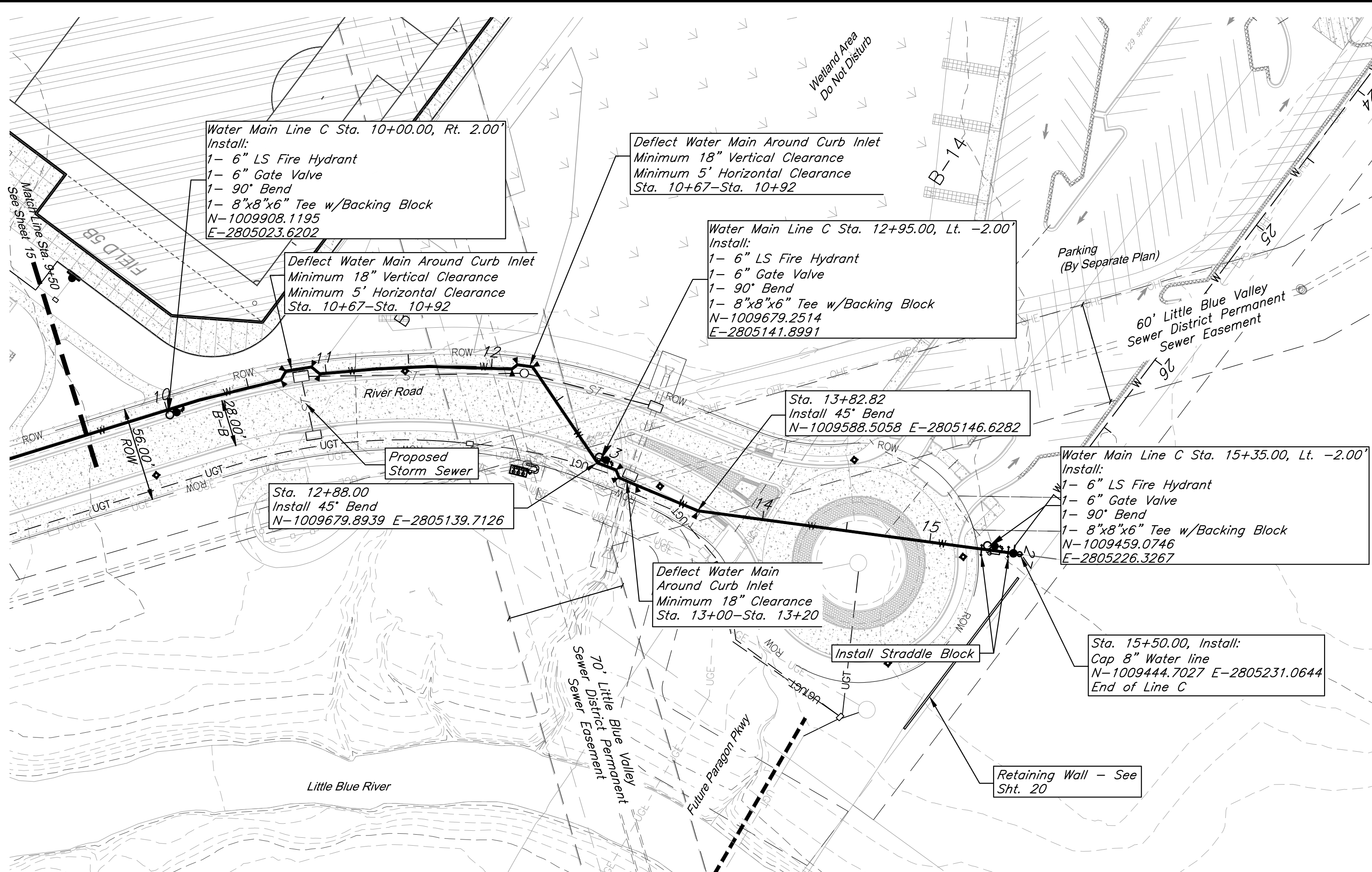
Bradley D. Burton
Professional Engineer
License No. 25862
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
 - 5/25/21 Paver Revision
 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- NOTES:**
1. Fire Hydrants shall be spaced every 300' in mixed use area and every 600' in residential areas.
 2. Waterline shall be installed 4' off of back of curb, except where noted otherwise.
 3. Water Main shall maintain 3 feet of separation from Light Poles.
 4. All water service installations including backflow devices are subject to field verification and approval by the Water Department inspector.
 5. Compacted fill shall be placed to a minimum of 18 inches above the top of the pipe prior to installation.
- As-Built:** "400-90 100.10" "1-80W 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. Information is as designed and not as-built.
- CAUTION:**
- Numerous Utilities on Site.
Contractor to verify location
and elevation of all utilities
prior to commencing
construction.



C:\12220\Civil_3D\Production Drawings\Street & Storm Plans\12220C1600.dwg Layout: 16 Private Water Main Line C Plan & Profiles Thursday April 06, 2023, 3:33pm --- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



CAUTION!

Numerous Utilities on Site.
Contractor to verify location
and elevation of all utilities
prior to commencing
construction.

NOTES:

D.E. = Drainage Easement

U.E. = Utility Easement

P = Property Line

R/W = Right-of-Way

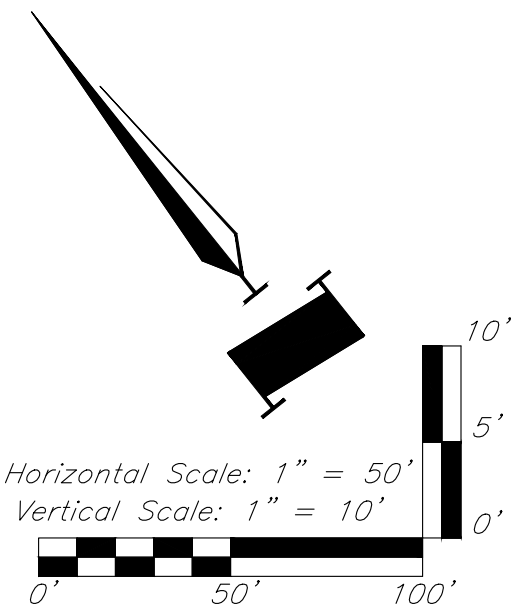
FG = Finished Grade

TP = Top of Pipe

LS = Lee's Summit

BENCHMARK:

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of I470 bridge
spanning View High Drive.
EL=833.80



The information provided on this
drawing conforms to construction
records; it is not intended for
construction, implementation or
recording purposes; and it is solely
based on information obtained by
GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO. TOTAL SHEETS

16 104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

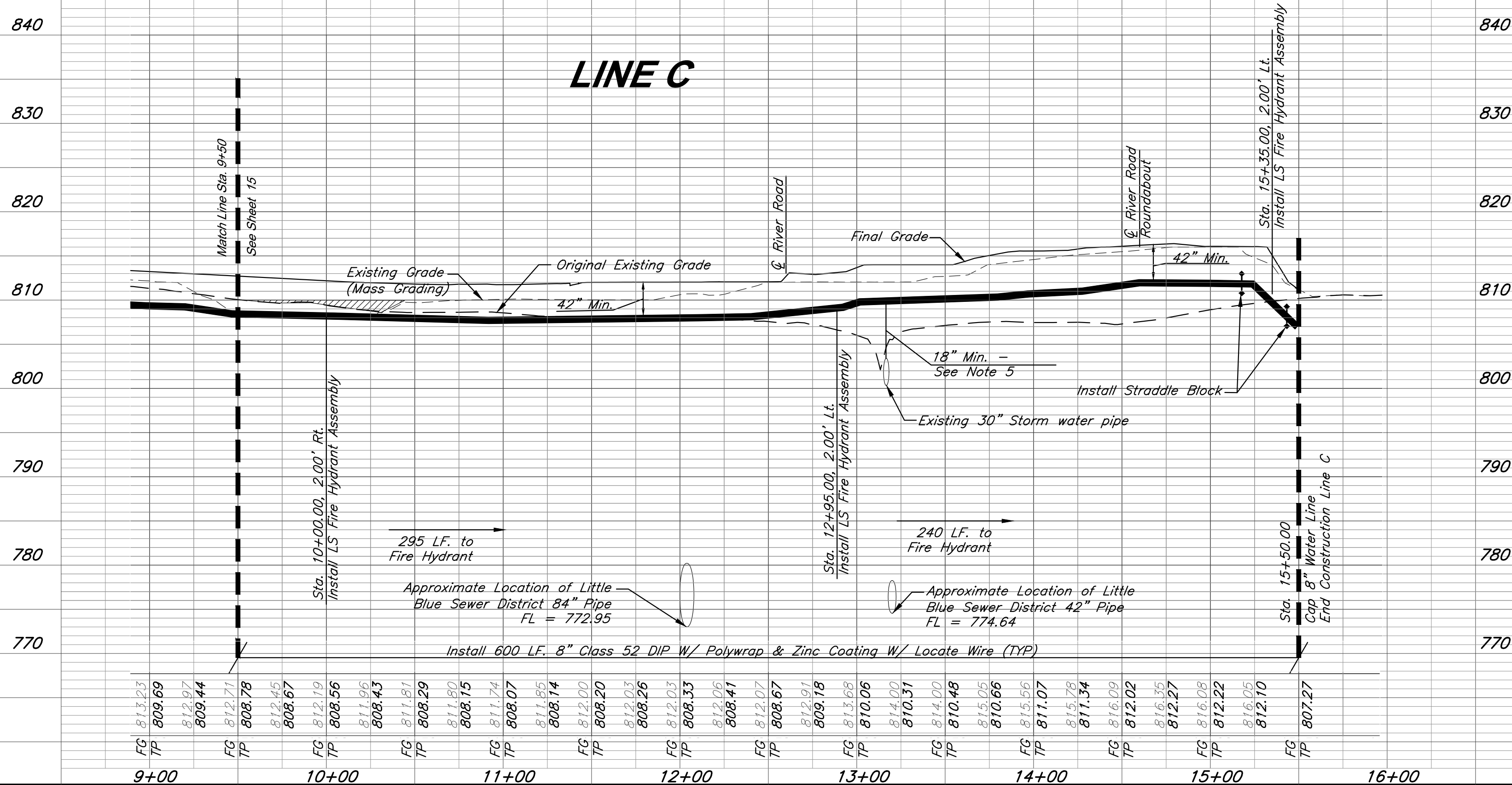
NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "4-00% 1.15%
slope"; or "8-inch HDPE PVC pipe" are all
typical examples of revisions that indicate that
design data has been replaced with "as-built"
information. All other data is as designed and
has not been field verified.

1. Fire Hydrants shall be spaced every
300' in mixed use area and every 600'
in residential areas.
2. Waterline shall be installed 4' off of
back of curb, except where noted
otherwise.
3. Water Main shall maintain 3 feet of
separation from Light Poles.
4. All water service installations including
backflow devices are subject to field
verification and approval by the Water
Department inspector.

LINE C



Compacted placed to a minimum of
18 inches above the top of the
pipe prior to installation.

**PRIVATE WATER MAIN
LINE C PLAN & PROFILES**

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2800.dwg Thursday April 06, 2023, 3:33pm Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

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engineers

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
17	104

Bradley D. Burton Professional Engineer License No. 25862		Street and Storm Sewer Plans Paragon Star Development Lee's Summit, Missouri	
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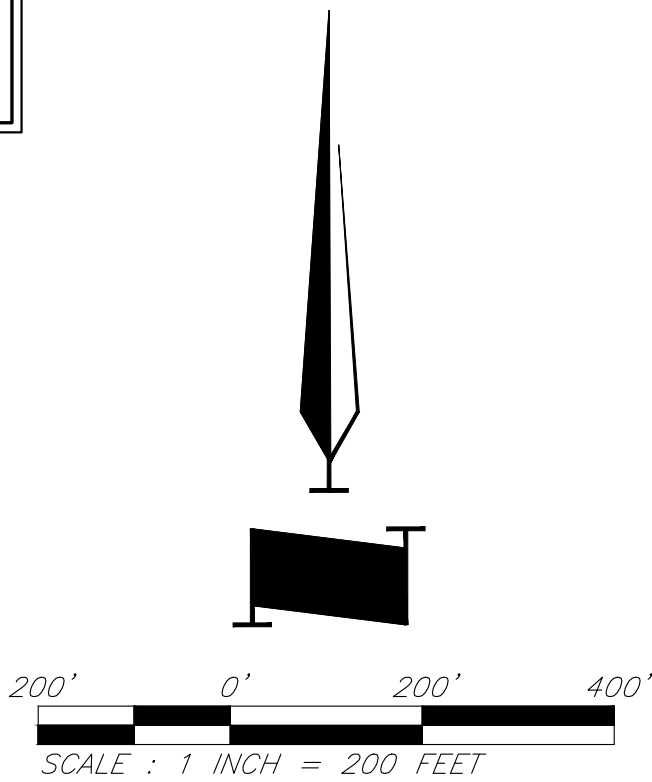
NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15-Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

As-Built: "400-00 100.10" "4-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

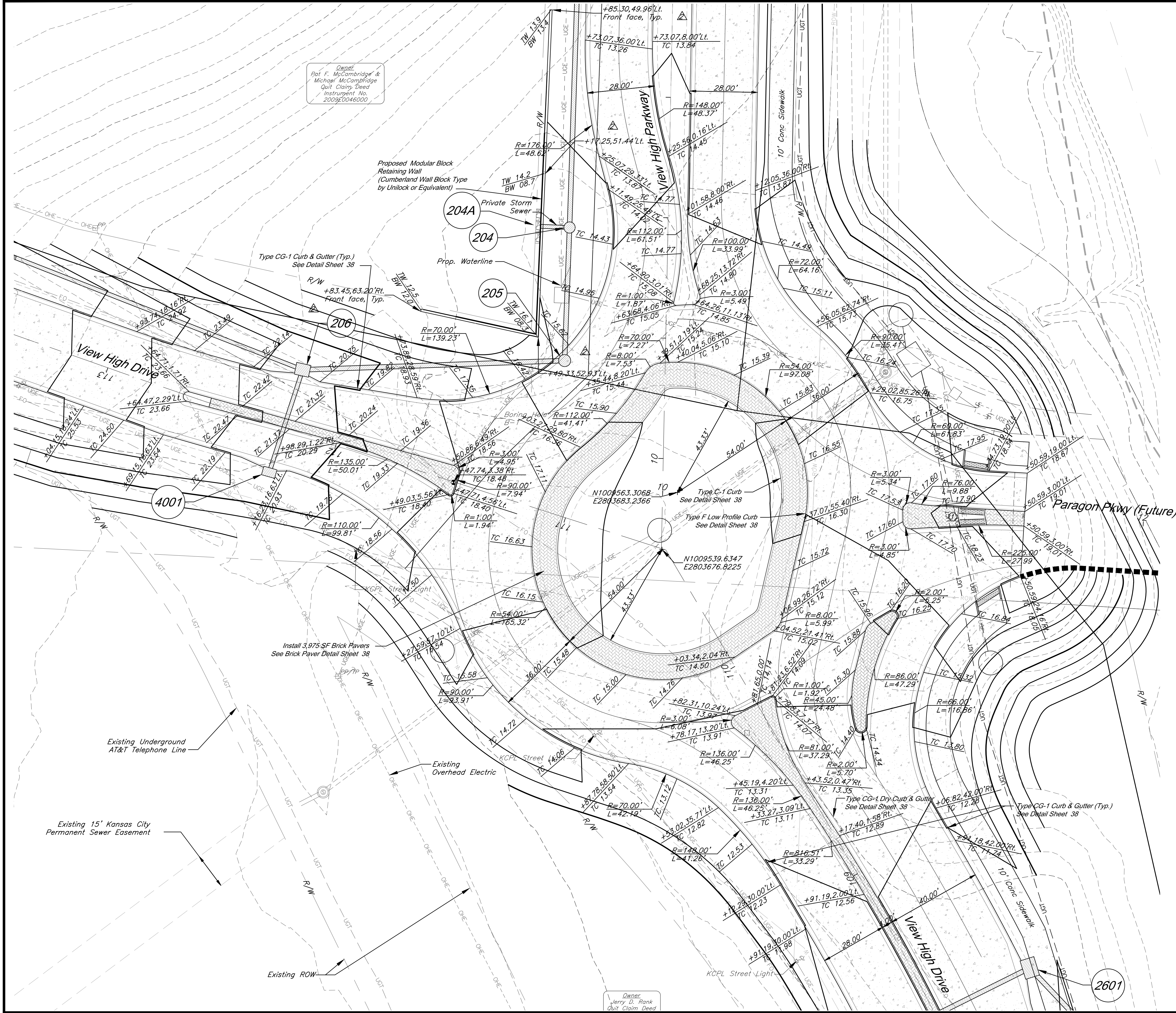
- Stream Buffer
- Proposed Floodway
- Ordinary High Water Mark

Proposed Floodway and Floodplain, refer to lines established by the FEMA CLOMR dated 2/14/2020, Case No. 20-70-0520R.



Floodway & Floodplain Plan

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA
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engineers

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Lenexa, Kansas 66219
913.492.0400
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DATE: 6-25-2020

DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
18	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1 1/27/21 Revised Structure Size

2 2/4/21 Retaining Wall Station & Offsets

3 2/26/21 RFI 11

4 3/11/21 RFI 12

5 3/11/21 Revised Line 400

6 4/8/21 Utility Updates

7 5/25/21 Paver Revision

8 6/15/21 Grading Updates

9 6/24/21 Wiring Diagram Updates

10 9/30/21 RFI 15-Irrigation Sleeves

11 9/30/22 Record Drawings

12 4/7/23 Record Drawings
- As-Built: "400-90 100.10" "4-80% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

LEGEND

R/W Right of Way

PT Point of Tangent

MP Mid Point

PC Point of Curvature

PCC Point of Compound Curvature

PRC Point of Reverse Curvature

TC Top of Curb

CG-1 Dry Curb (CG-1 DRY)

Paver

NOTE:

1. All Elevations are to Top of Curb unless otherwise noted.

2. See Sheet 38 for Curb & Gutter Detail.

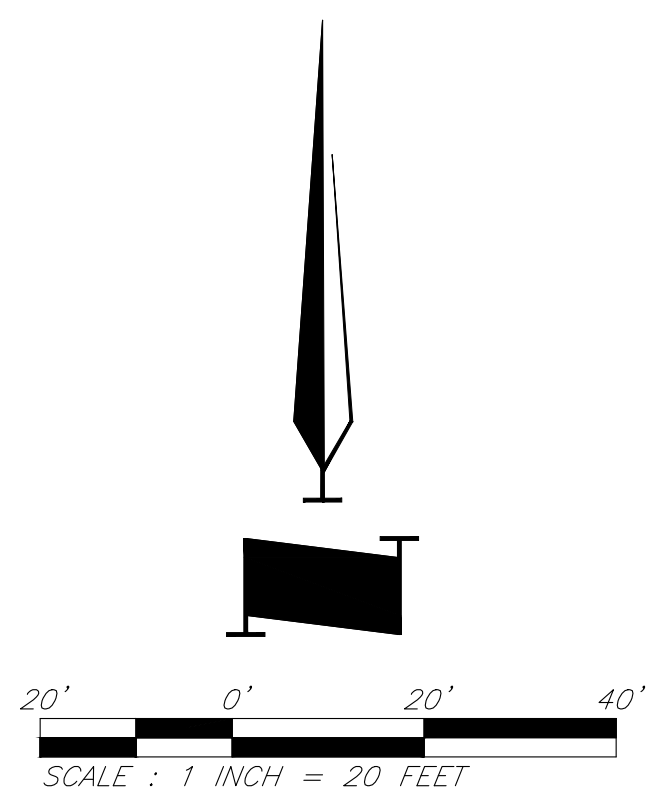
See Intersection Enlargement Sht. 21 For Crosswalk Detail

① View High Pkwy-East

PROJECT BENCHMARKS

BM #11 - Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of 1470 bridge spanning View High Drive.

EL=833.80



Intersection Details

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Lenexa, Kansas 66219
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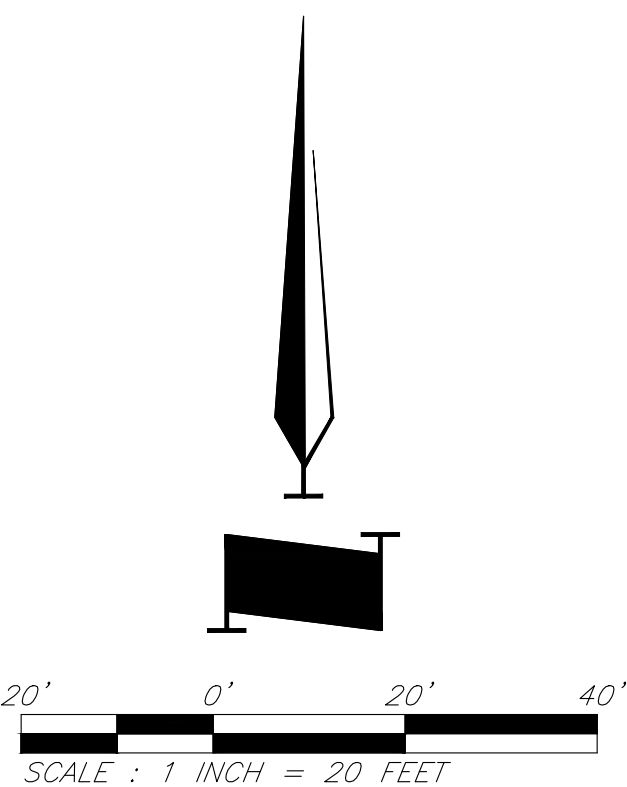
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

1	1/27/21	Revised Structure Size	As-Built: "400-00 100.10" "4-00% 1.15%
2	2/4/21	Retaining Wall Station & Offsets	slope", or "8-inch HDPE PVC pipe" are all
2	2/26/21	RFI 11	typical examples of revisions that indicate the
3	3/11/21	RFI 12	design data has been replaced with "as-built
4	3/11/21	Revised Line 400	information. All other data is as designed and
5	4/8/21	Utility Updates	has not been field verified.
6	5/25/21	Paver Revision	
7	6/15/21	Grading Updates	
8	6/24/21	Wiring Diagram Updates	
9	9/30/21	RFI 15-Irrigation Sleeves	
10	9/30/22	Record Drawings	
11	4/7/23	Record Drawings	

See Intersection Enlargement
Sht. 21 For Crosswalk Details

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of 1470 bridge
spanning View High Drive.
EL=833.80

1. All Elevations are to Top of Curb unless otherwise noted.
2. See Sheet 38 for Curb & Gutter Detail.



Intersection Details

DATE: 6-25-2020	
DESIGN BY: CEL	
DRAWN BY: DRV	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
20	104

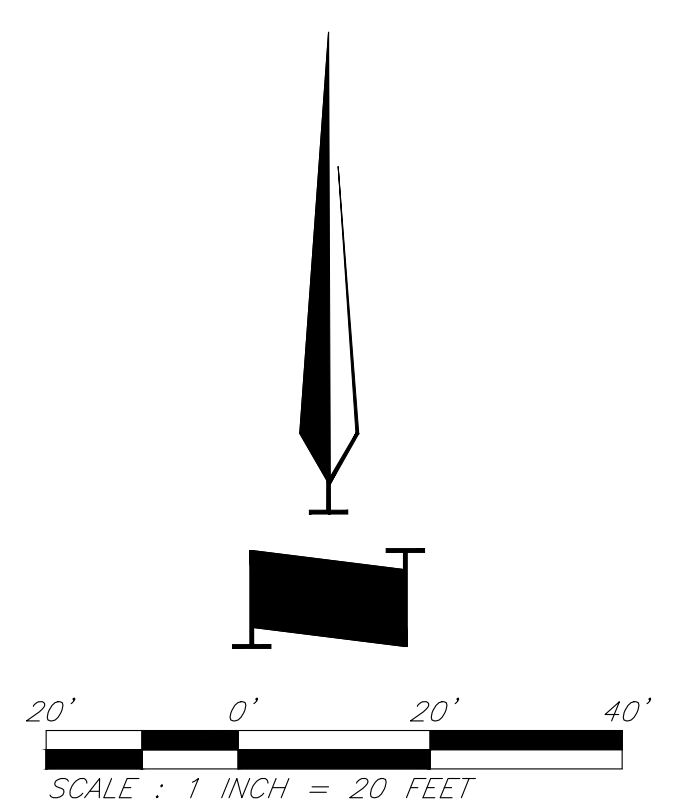
1	1/27/21	Revised Structure Size	As-Built: "400-00 100.10"; "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.
2	2/4/21	Retaining Wall Station & Offsets	
3	2/26/21	RFI 11	
3	3/11/21	RFI 12	
4	3/11/21	Revised Line 400	
5	4/8/21	Utility Updates	
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7	6/15/21	Grading Updates	
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9	9/30/21	RFI 15-Irrigation Sleeves	
10	9/30/22	Record Drawings	
11	4/7/23	Record Drawings	

PROJECT BENCHMARKS

*BM #11 – Chiseled “L” on top
Northeast corner of concrete guardrail
at the Northeast corner of 1470 bridge
spanning View High Drive.
EL=833.80*

NOTE:

1. All Elevations are to Top of Curb unless otherwise noted.
2. See Sheet 38 for Curb & Gutter Detail.



Intersection Details

Concrete Entrance -
See Detail on Sht. 39

ADA accessible Ramp
without Detectible Warning

10' Conc. Sidewalk
R/W

Geometric Data:
 $R=25.00'$
 $L=29.00'$
 $+07.30, 14.00'$ RT
 $IC 29.04$
 $IC 28.93$
 $+87.22, 26.00'$ RT
 $IC 28.00$
 $IC 27.81$
 $+56.72, 26.00'$ RT
 $IC 27.93$
 $IC 28.41$
 $IC 27.97$
 $IC 28.26$
 $IC 27.82$
 $IC 28.92$
 $IC 28.58$
 $IC 28.62$
 $IC 28.68$
 $IC 29.07$
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 $IC 20.46$
 $IC 20.41$
 $IC 20.36$
 $IC 20.31$
 $IC 20.26$
 $IC 20.21$
 $IC 20.16$
 $IC 20.11$
 $IC 20.06$
 $IC 20.01$
 $IC 19.96$
 $IC 19.91$
 $IC 19.86$
 $IC 19.81$
 $IC 19.76$
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 $IC 17.91$
 $IC 17.86$
 $IC 17.81$
 $IC 17.76$
 $IC 17.71$
 $IC 17.66$
 $IC 17.61$
 $IC 17.56$
 $IC 17.51$
 $IC 17.46$
 $IC 17$

The drawing illustrates a road cross-section with three distinct pavement sections, each with its own set of elevations and slopes.

- Left Section (10' Conc. Sidewalk):**
 - Elevations: 19.81, 19.97, 19.48, 19.38, 19.77, 19.87.
 - Slopes: 1.0%, 7.5%, 7.0%, 1.0%, 7.5%, 1.3%, 0.5%, 1.5%, 1.0%.
- Middle Section (6' Conc. Sidewalk):**
 - Elevations: 19.87, 19.93, 19.96, 19.93, 19.89, 19.80, 19.78, 19.72.
 - Slopes: 1.3%, 0.5%, 1.5%, 1.0%, 1.5%, 0.4%, 1.5%, 1.0%.
- Right Section (10' Conc. Sidewalk):**
 - Elevations: 19.64, 20.25, 20.10, 20.20, 19.49.
 - Slopes: 6.5%, 1.0%, 1.5%, 7.5%, 1.0%.

The drawing also includes a dashed line representing the centerline and a solid line representing the edge of the road. The pavement types are labeled as 10' Conc. Sidewalk, 6' Conc. Sidewalk, and 10' Conc. Sidewalk.

[illegible]

Intersection Enlargements

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SHEET NO.	TOTAL SHEETS
21	104

<i>R/W</i>	<i>Right of Way</i>
<i>TC</i>	<i>Top of Curb</i>
	<i>Ramp ID</i>
1	<i>See sheet 3 for details</i>

1. All Elevations are to Top of Curb unless otherwise noted.
2. See Sheet 38 for Curb & Gutter Detail.
3. See Sheet 38 for Sidewalk Ramp Details.
4. Install Type "A" S/W Ramp unless otherwise noted.

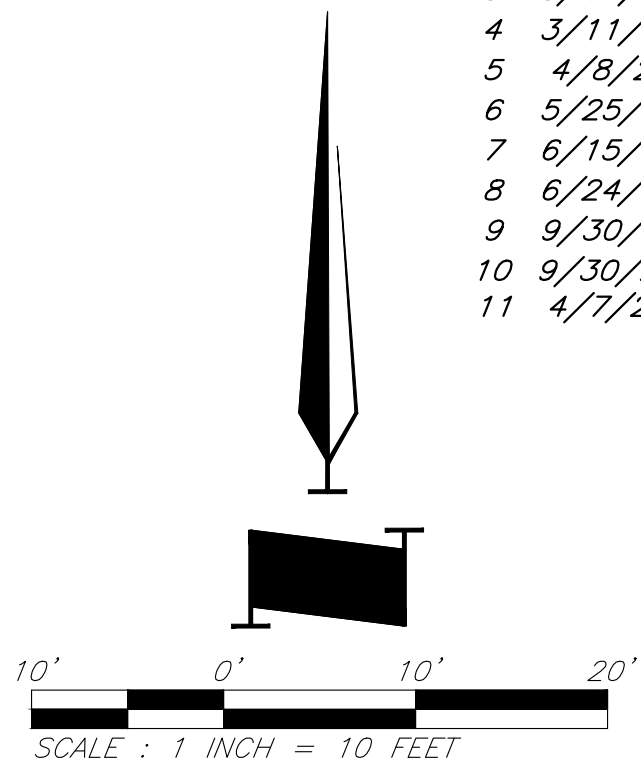
Street and Storm Sewer Plans
Paragon Star Development

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	11/23/20	Utility Updates		

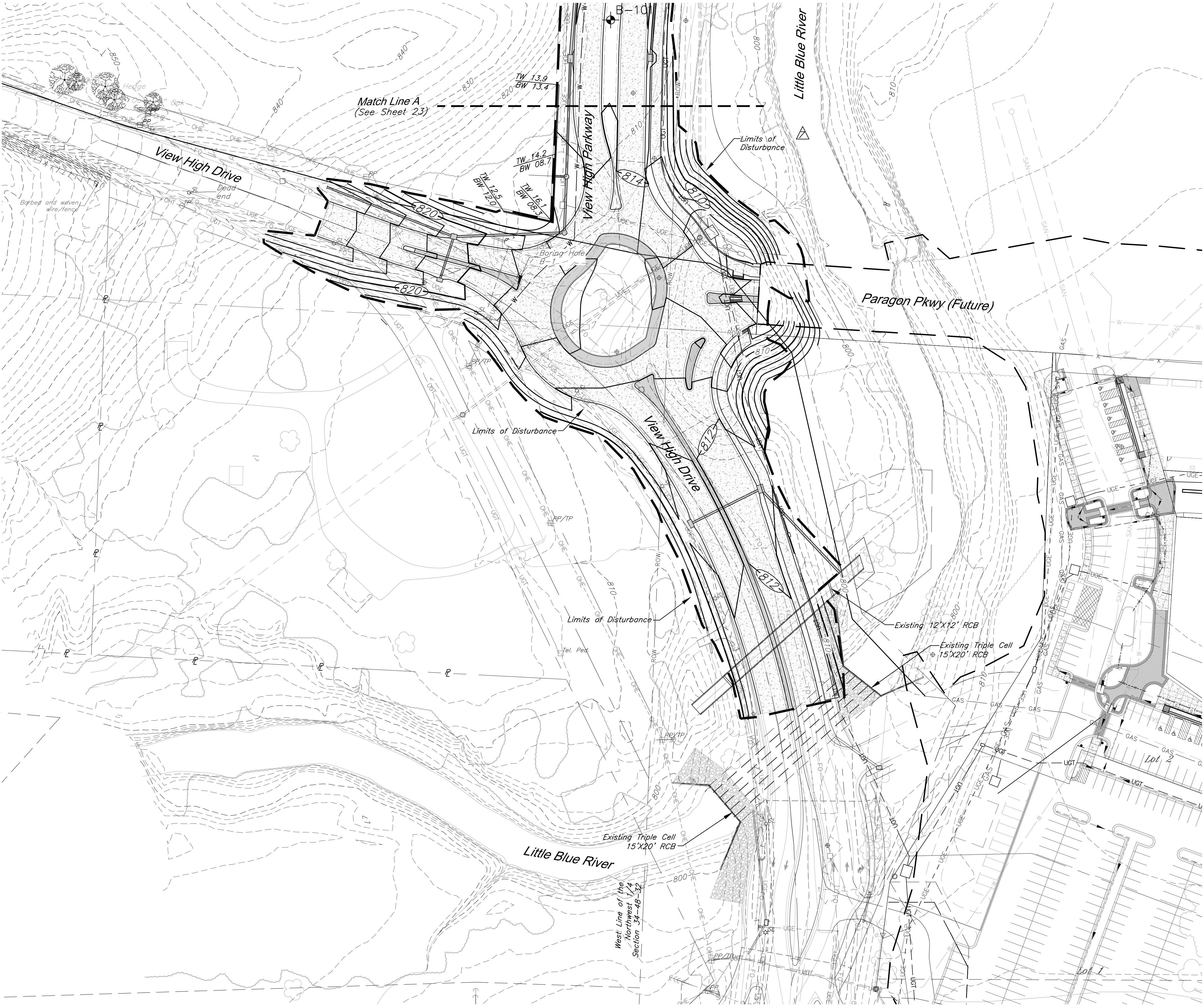
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|----|---------|----------------------------------|
| 1 | 1/27/21 | Revised Structure Size |
| 2 | 2/4/21 | Retaining Wall Station & Offsets |
| 3 | 2/26/21 | RFI 11 |
| 4 | 3/11/21 | RFI 12 |
| 5 | 3/11/21 | Revised Line 400 |
| 6 | 4/8/21 | Utility Updates |
| 7 | 5/25/21 | Paver Revision |
| 8 | 6/15/21 | Grading Updates |
| 9 | 6/24/21 | Wiring Diagram Updates |
| 10 | 9/30/21 | RFI 15-Irrigation Sleeves |
| 11 | 9/30/22 | Record Drawings |
| 12 | 4/7/23 | Record Drawings |

As-Built: "~~400.00~~ 100.10", "~~4.00%~~ 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

BM #11 - Chiseled "L" on top
Northeast corner of concrete guardrail
at the Northeast corner of I470 bridge
spanning View High Drive.
EL=833.80



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Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

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DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
22	104

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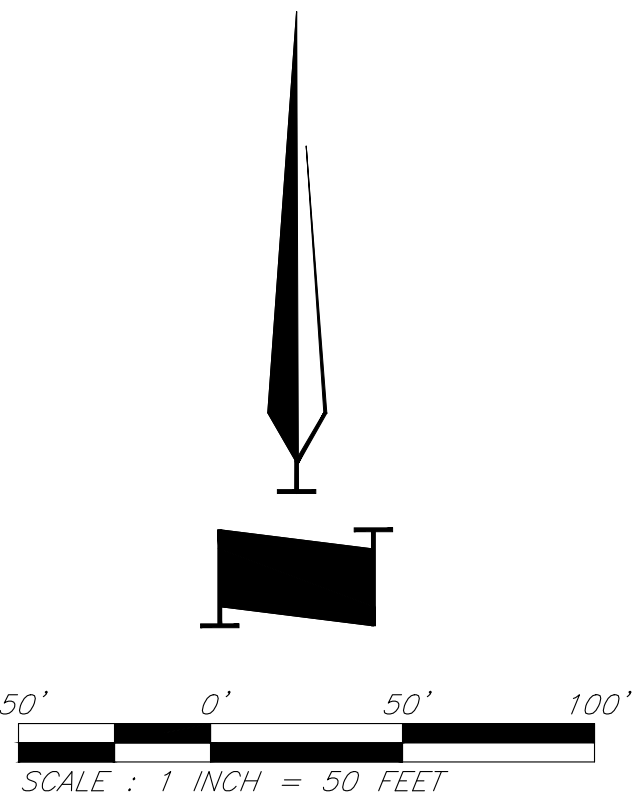
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
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	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15-Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

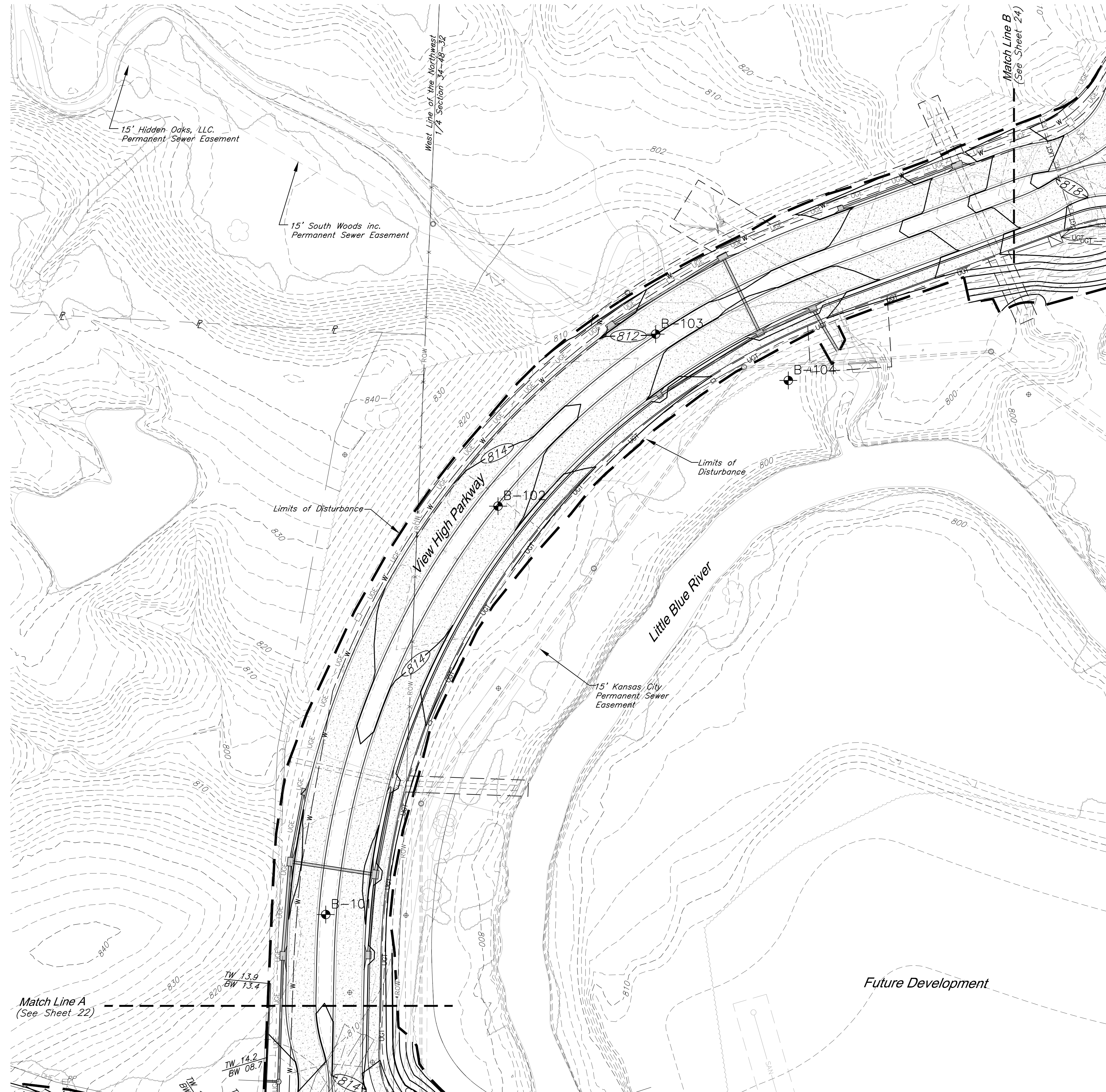
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Legend

- Proposed Contours
- Existing Contours
- Limits of Disturbance



Grading Plan

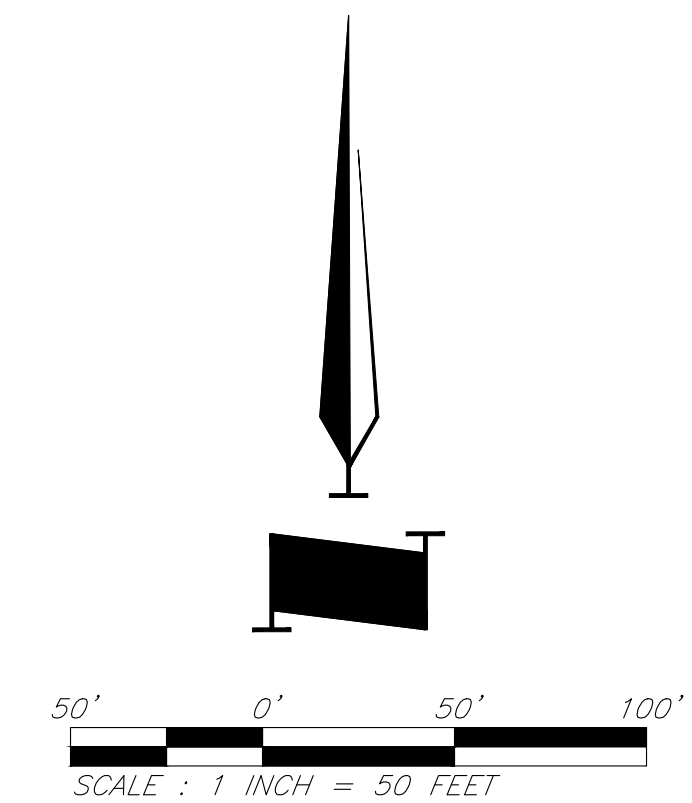


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Paragon Star Development
Lee's Summit, Missouri

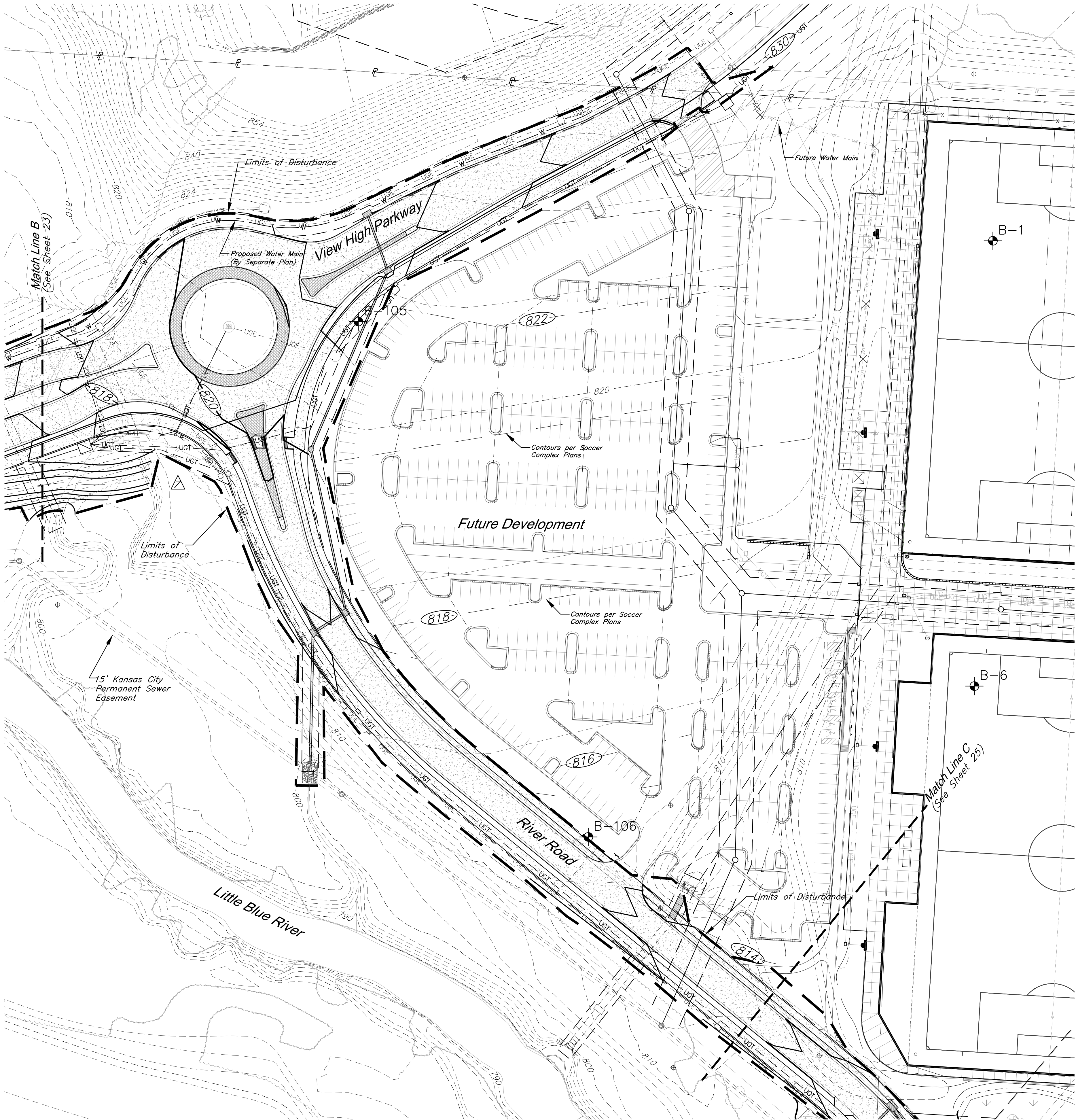
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2	2/4/21	Retaining Wall Station & Offsets	typical examples of revisions that indicate that
2	2/6/21	RFI 11	design data has been replaced with "as-built"
3	3/11/21	RFI 12	information. All other data is as designed and
4	3/11/21	Revised Line 400	has not been field verified.
5	4/8/21	Utility Updates	
6	5/25/21	Paver Revision	
7	6/15/21	Grading Updates	
8	6/24/21	Wiring Diagram Updates	
9	9/30/21	RFI 15--Irrigation Sleeves	
10	9/30/22	Record Drawings	
11	4/7/23	Record Drawings	

 *Proposed Contours*
 *Existing Contours*
 *Limits of Disturbance*



Grading Plan

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Certified by: Bradley D. Burton

Title: Senior Associate

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SHEET NO.	TOTAL SHEETS
24	104

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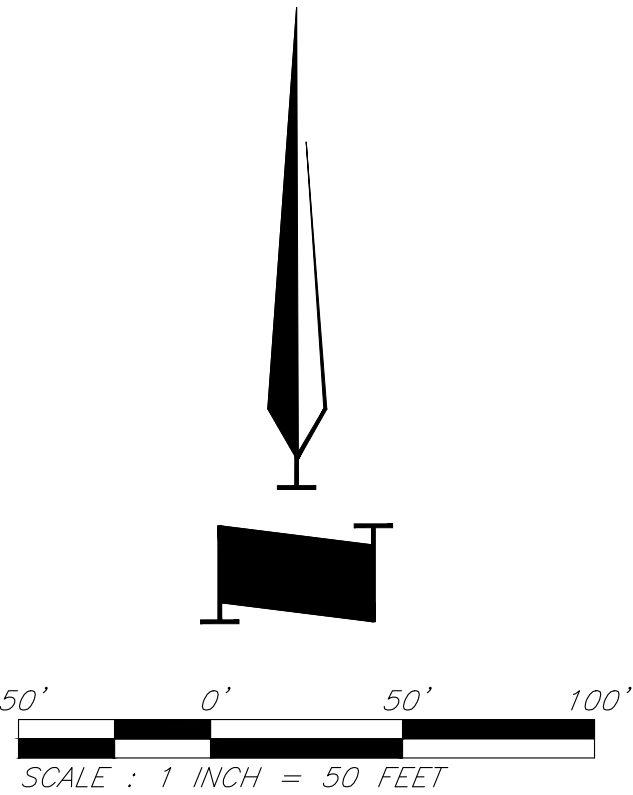
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	9/2/20	City Comments		
	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
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8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15-Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

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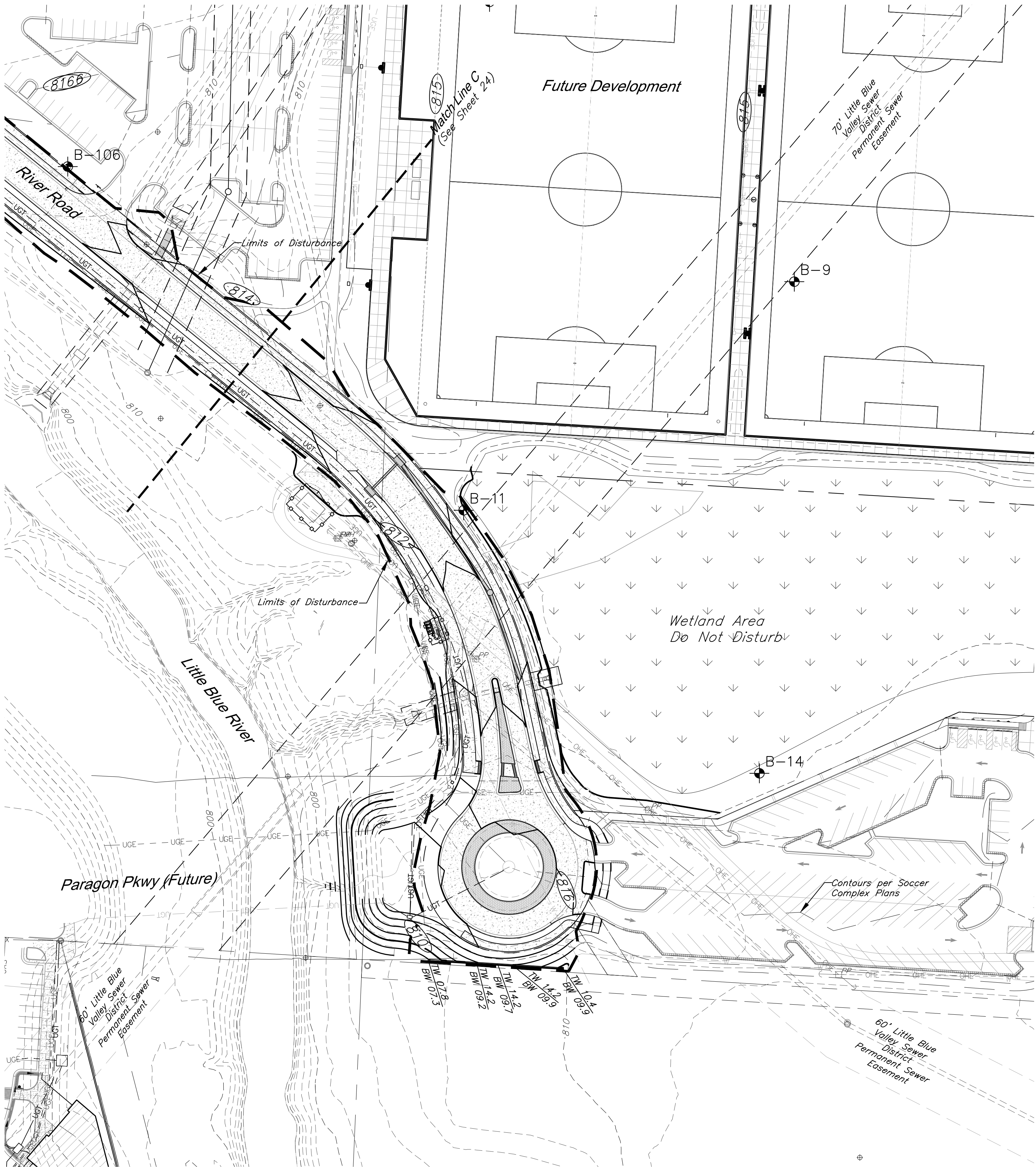
Legend

- Proposed Contours
- Contours per Soccer Complex Plans
- Existing Contours
- Limits of Disturbance



Grading Plan

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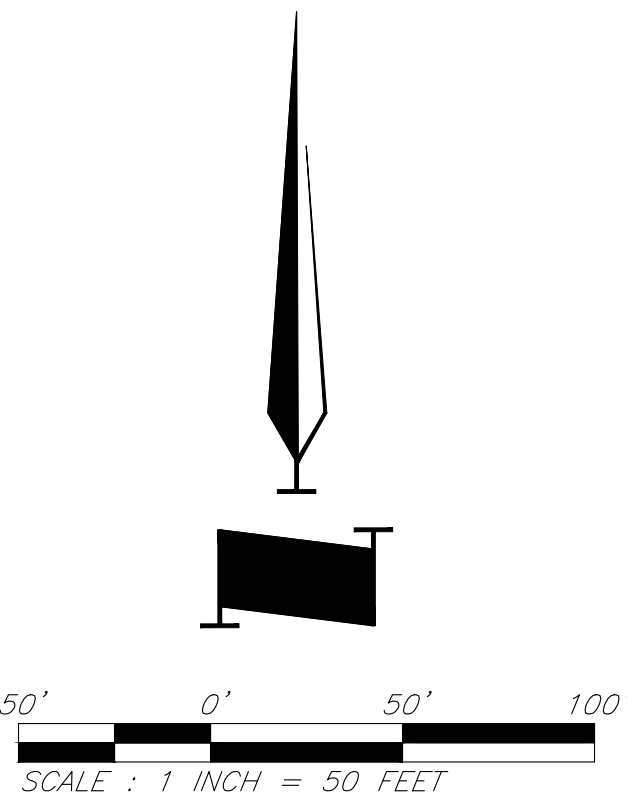
DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. 25
TOTAL SHEETS 104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
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2	11/23/20	Utility Updates		

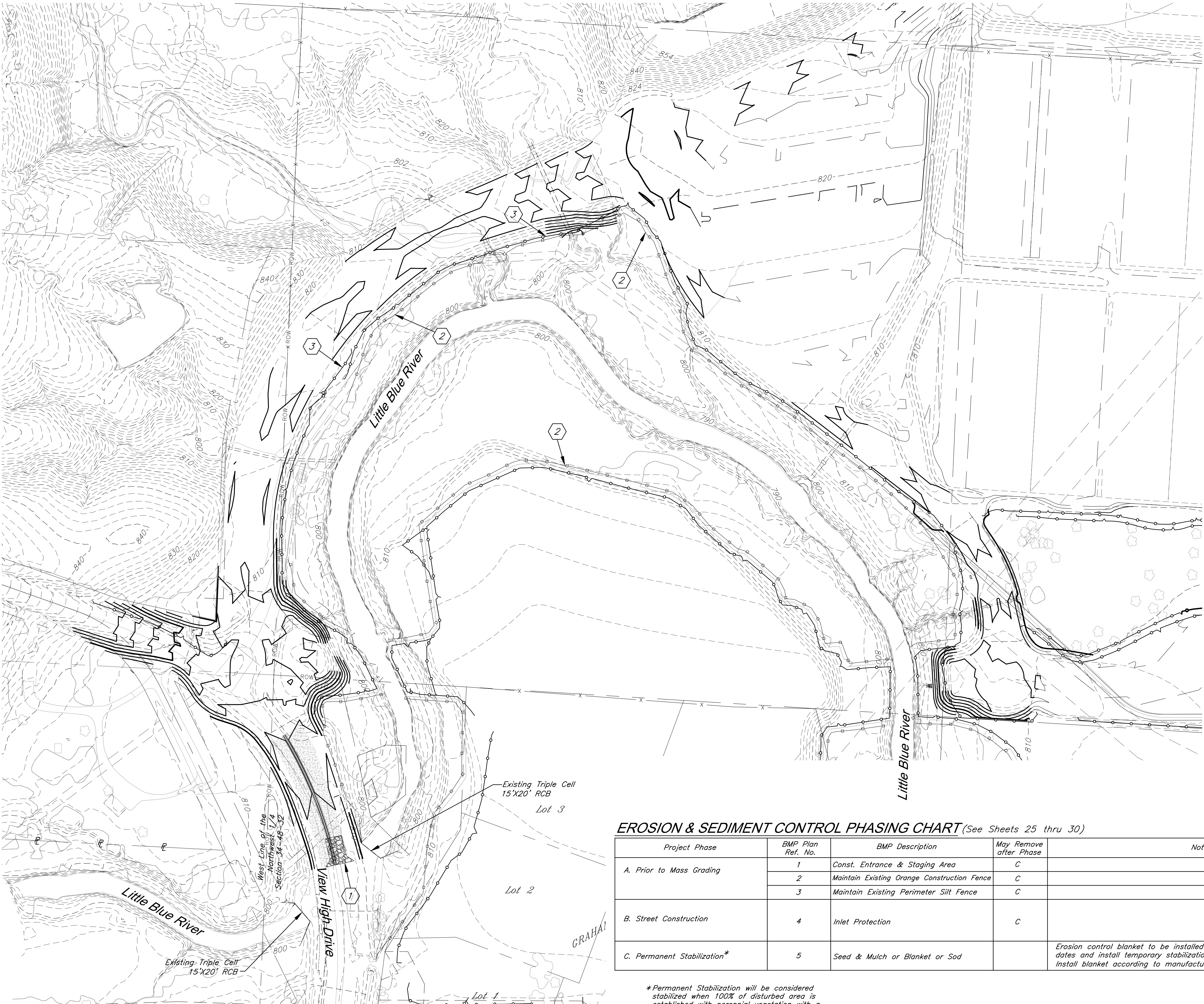
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 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
 - 5/25/21 Paver Revision
 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- Legend**

- Proposed Contours
- Contours per Soccer Complex Plans
- Existing Contours
- Limits of Disturbance



Grading Plan

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720-4000.dwg Layout: 26 Pre-Construction Erosion & Sediment Control Plan-Phase 1 Thursday April 06, 2023 3:40pm Copyright 2023, George Buller Associates, Inc. 000133, Professional Engineer 000059



EROSION & SEDIMENT CONTROL PHASING CHART (See Sheets 25 thru 30)

Project Phase	BMP Plan Ref. No.	BMP Description	May Remove after Phase	Notes
A. Prior to Mass Grading	1	Const. Entrance & Staging Area	C	
	2	Maintain Existing Orange Construction Fence	C	
	3	Maintain Existing Perimeter Silt Fence	C	
B. Street Construction	4	Inlet Protection	C	
C. Permanent Stabilization*	5	Seed & Mulch or Blanket or Sod		Erosion control blanket to be installed w/ seed. Check approved seeding dates and install temporary stabilization if out of seeding season. Install blanket according to manufacturer's instructions and stapling pattern.

*Permanent Stabilization will be considered stabilized when 100% of disturbed area is established with perennial vegetation with a density of 70%.

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Certified by: Bradley D. Burton

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SHEET NO.	TOTAL SHEETS
26	104

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License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
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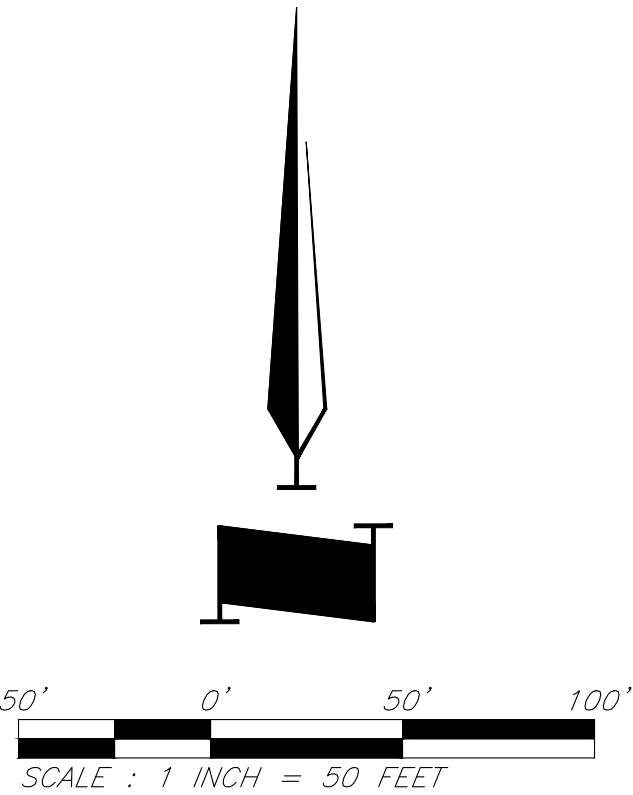
NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
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 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
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 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10" "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Erosion Control Legend

-
- Silt Fence
-
- Gravel Filter Bags
-
- Temporary Gravel Construction Entrance
-
- Proposed Contours
-
- Contours per Soccer Complex Plans
-
- Existing Contours

Total Disturbed Area =
10.14 Acres



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Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton
Title: Senior Associate
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PROJECT NO.: 12720
SHEET NO. 27
TOTAL SHEETS 104

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Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
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- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

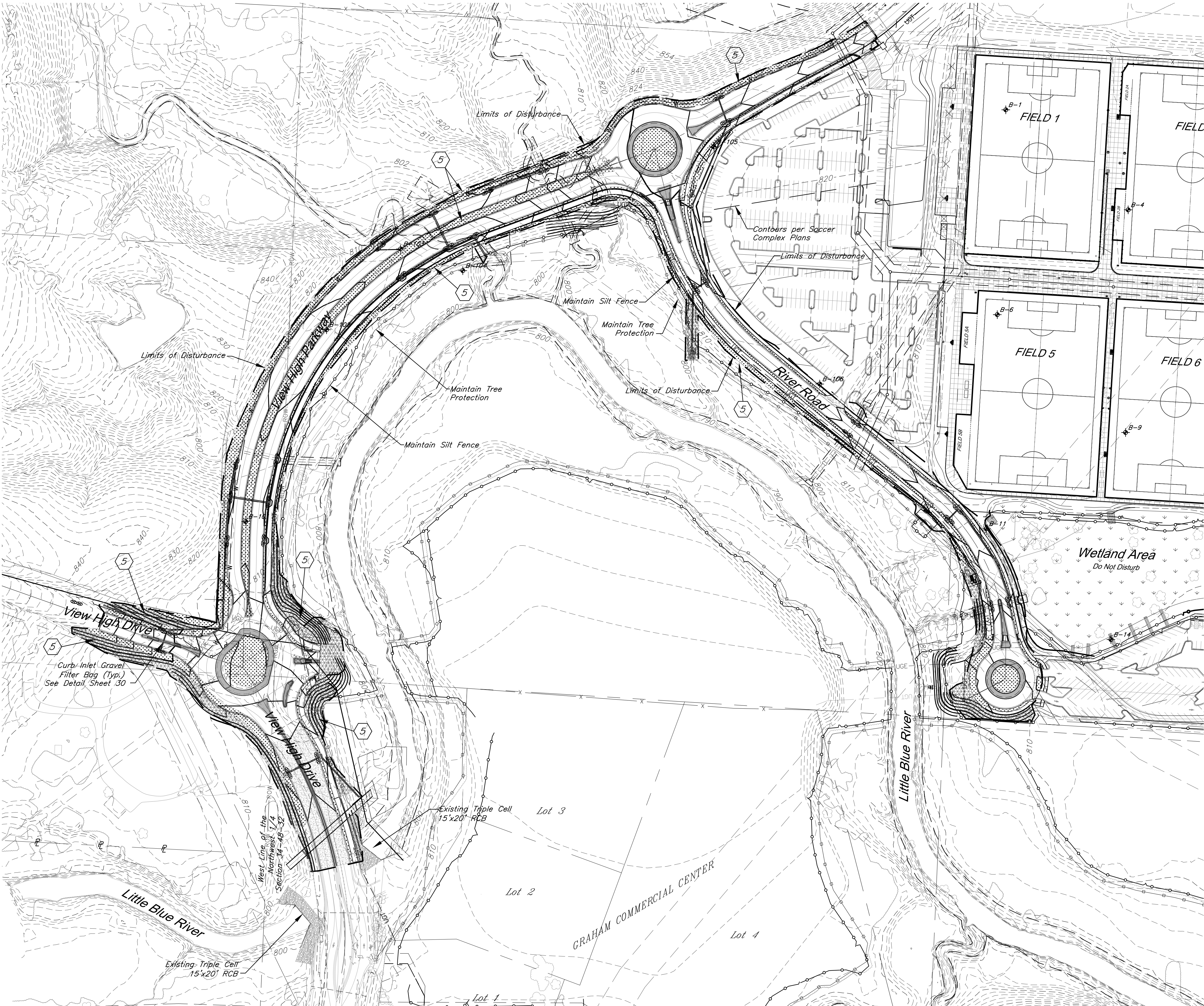
As-Built: "400-00 100.10" "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Erosion Control Legend

- Silt Fence
- Gravel Filter Bags
- Temporary Gravel Construction Entrance
- Proposed Contours
- Contours per Soccer Complex Plans
- Existing Contours
- Limits of Disturbance

Erosion & Sediment Control Plan-Phase 2

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C4000.dwg Layout: 28 Erosion & Sediment Control Plan-Phase 3 Thursday April 06, 2023, 3:41pm --- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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DRAWN BY: DRV
PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
28	104

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Street and Storm Sewer Plans
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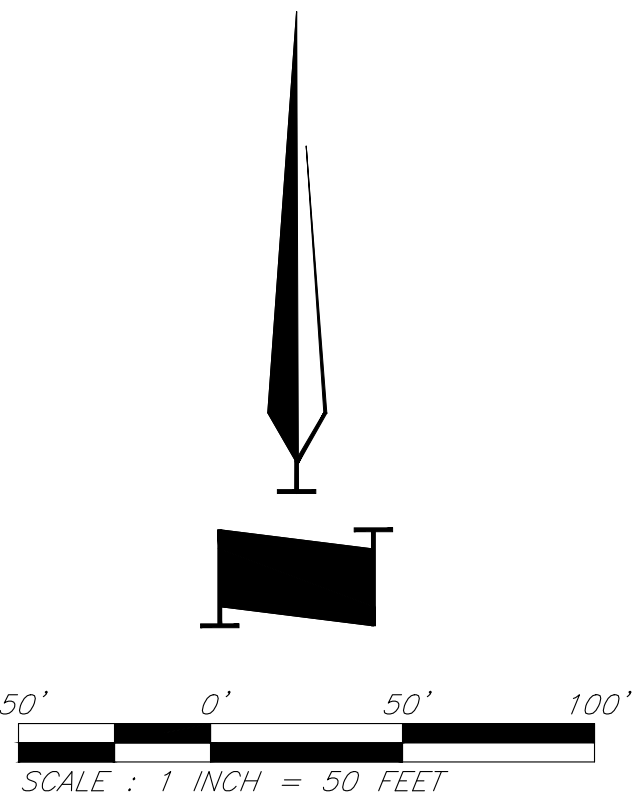
NO.	DATE	REVISIONS	BY	APPROVED
9/2/20		City Comments		
11/23/20		Utility Updates		

- 1/27/21 Revised Structure Size
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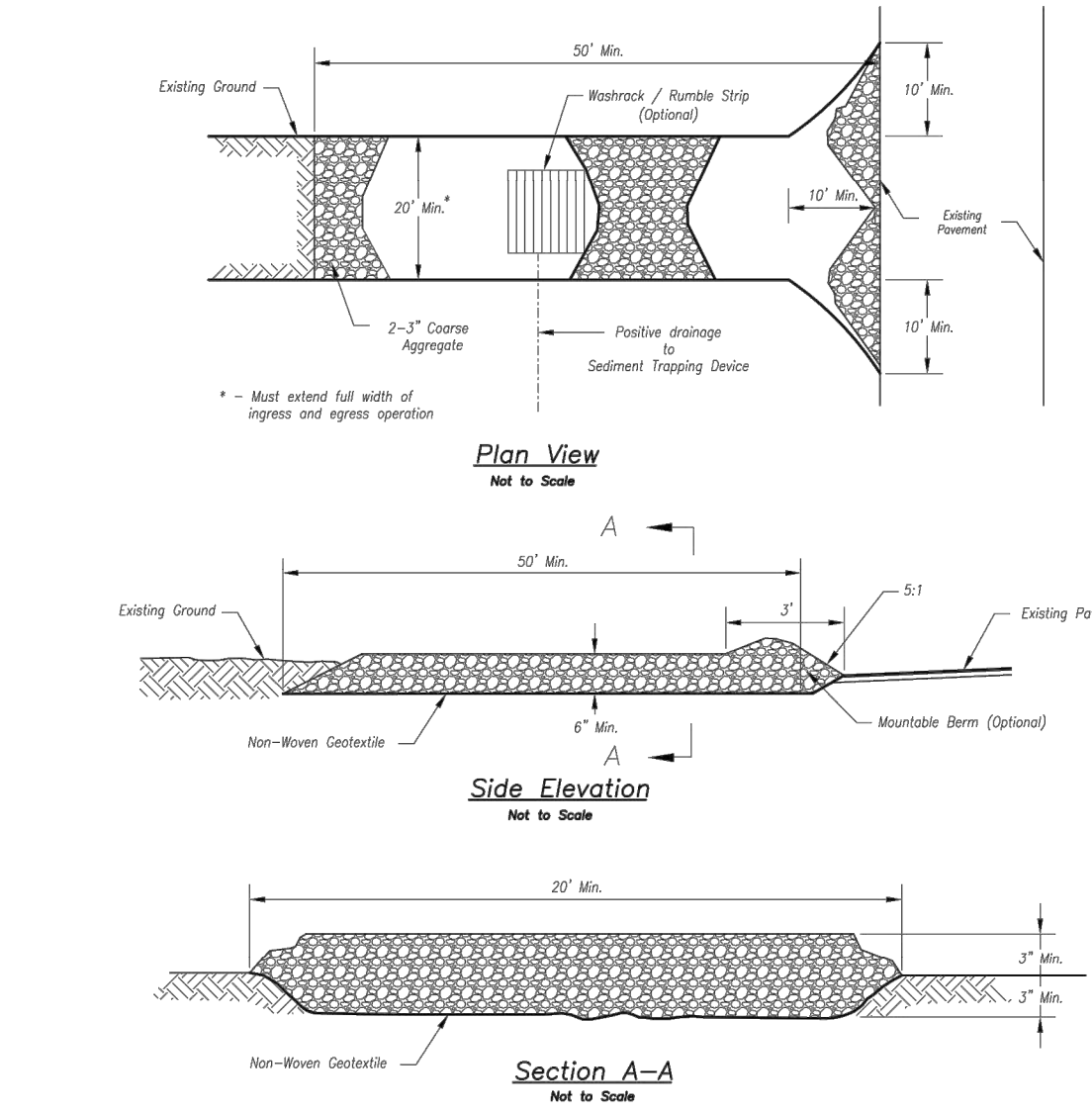
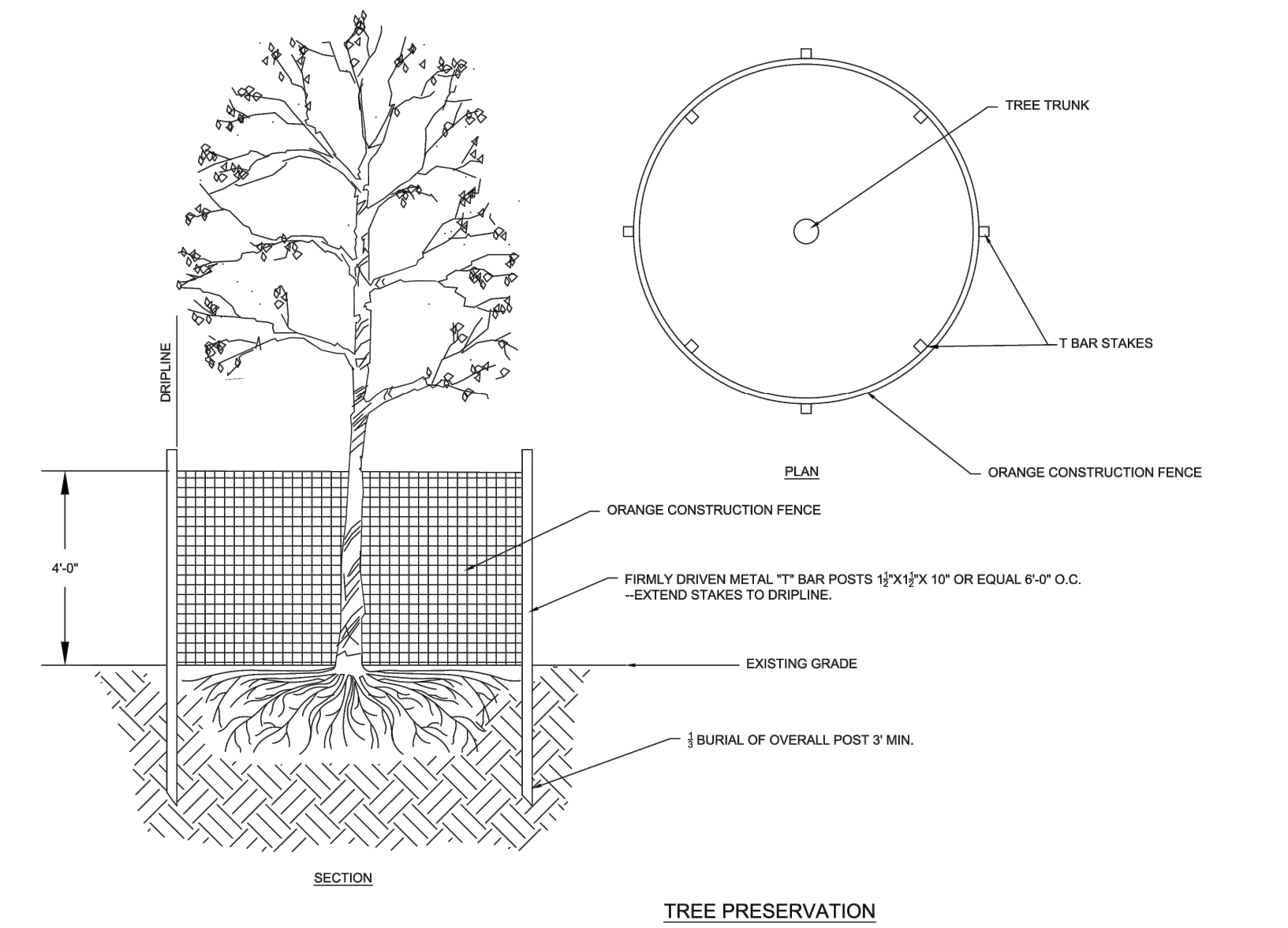
Erosion Control Legend

- Silt Fence
- Gravel Filter Bags
- Temporary Gravel Construction Entrance
- Proposed Contours
- Contours per Soccer Complex Plans
- Existing Contours
- Limits of Disturbance
- Erosion Control Blanket
North American Green SC150BN
or approved equal
- Establish Turf Type tall fescue
with Seed and Straw Mulch

Note: Remove Gravel Filter Bags after Project Phase C. Stabilize all disturbed area in accordance with erosion control notes.



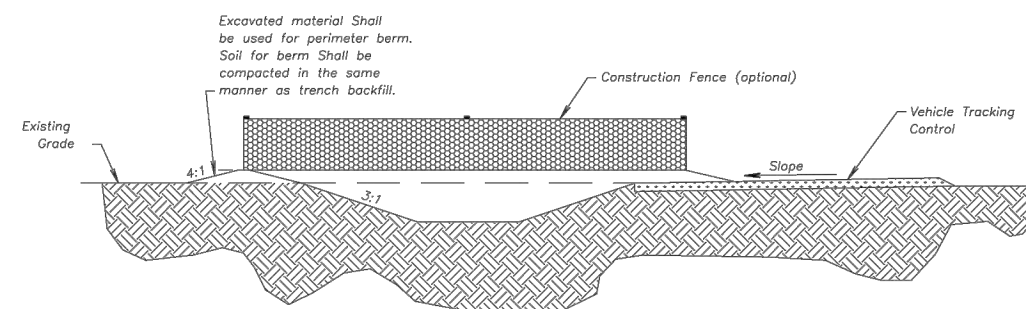
Post Construction - Erosion & Sediment Control Plan-Phase 3



- Notes for Construction Entrance:**
1. Avoid locating on steep slopes, at curves on public roads, or over/under of disturbed area.
 2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
 3. If slope towards the public road exceeds 2%, construct a 6\"/>

- Maintenance for Construction Entrance:**
1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONSTRUCTION ENTRANCE

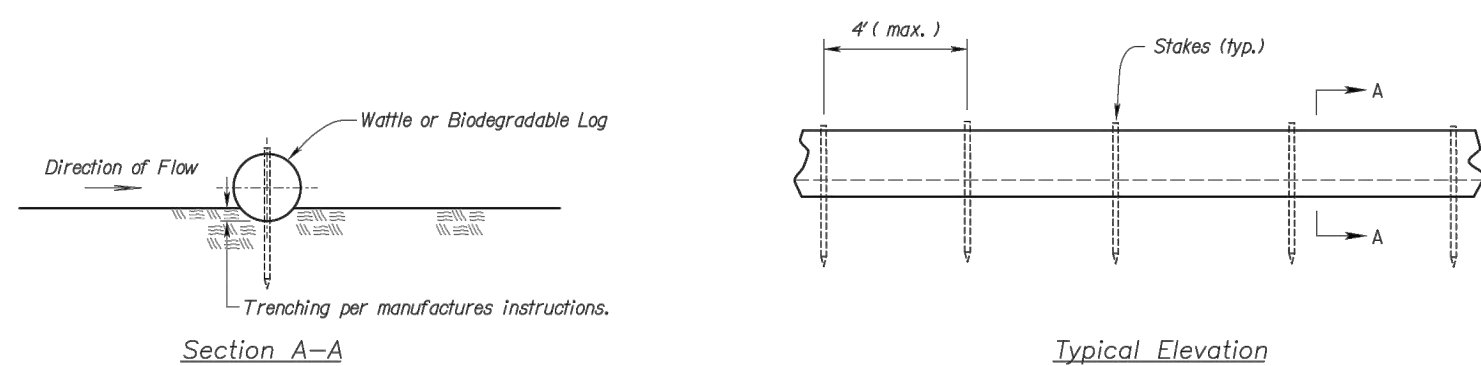
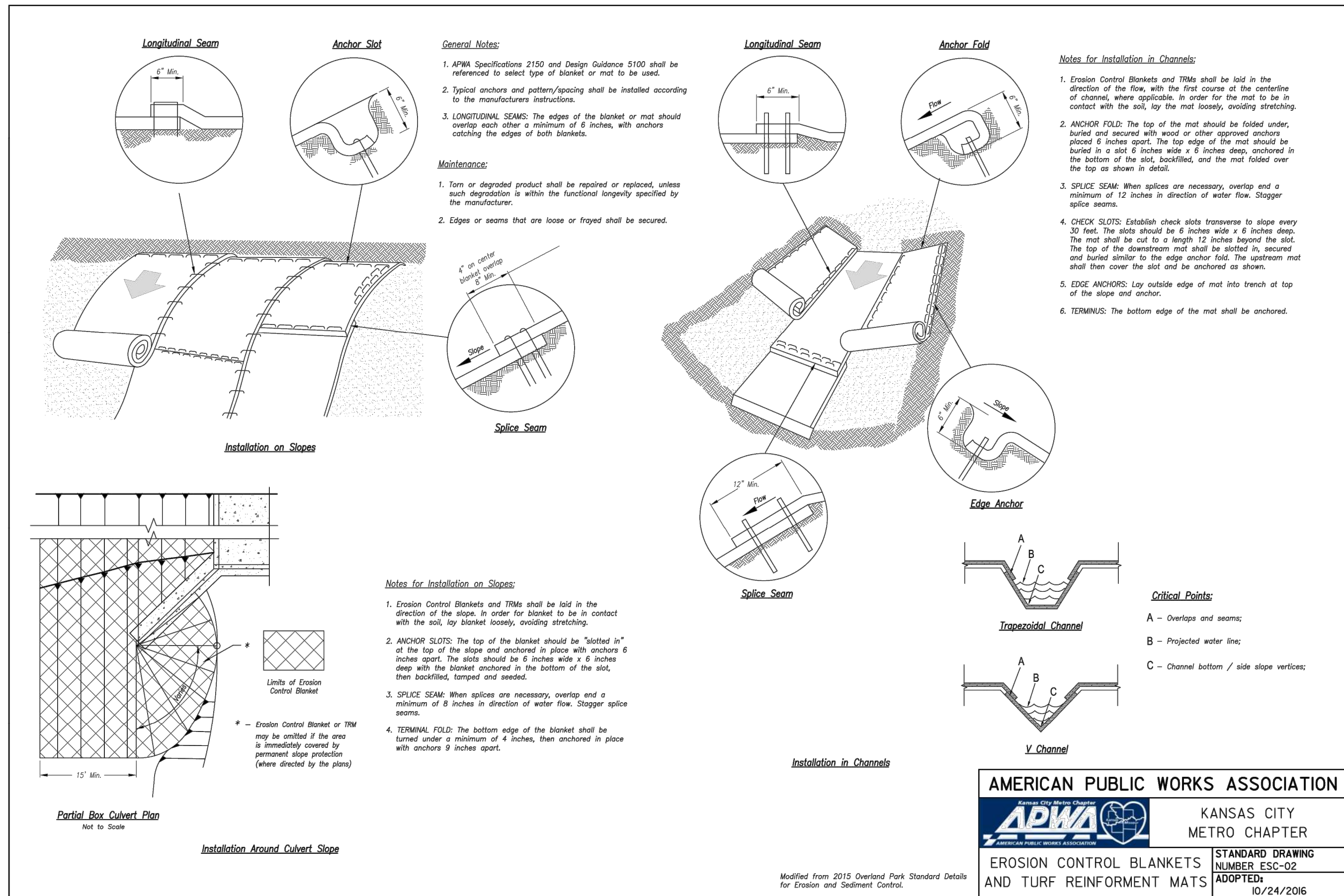


- Maintenance for Concrete Washout:**
1. Concrete washout areas shall be removed once the materials have filled the washout to approximately 75% full.
 2. Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
 3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
 4. Concrete washout areas shall remain in place until all concrete for the project is placed.
 5. When concrete washout areas are removed, excavations shall be filled with suitable compacted basefill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METRO CHAPTER	
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. Concrete Washout modified from 2009 City of Great Bend Standard Drawings.



WATTLES AND BIODEGRADABLE LOG

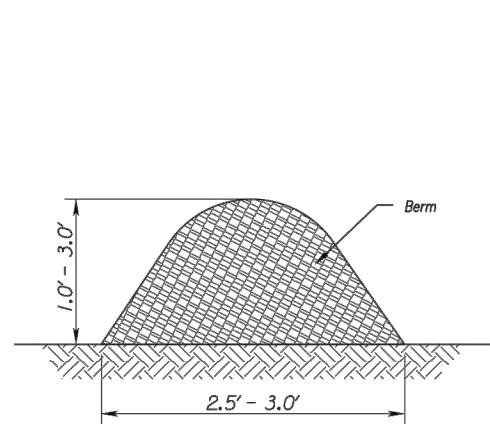


Figure 1 (Perimeter Control)

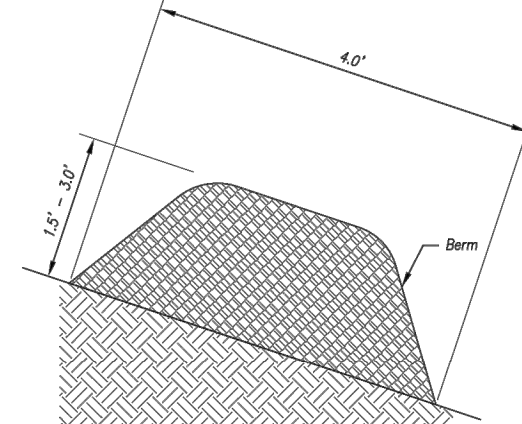


Figure 2 (Steep Slopes)

MULCH OR COMPOST FILTER BERMS

- Notes for Wattles and Biodegradable Log Slope Protection:**
1. The Slope barriers shall be placed along contour lines, with a short section turned up grade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
 2. Install wattles and biodegradable logs per manufacturer's instructions.
 3. Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24\"/>

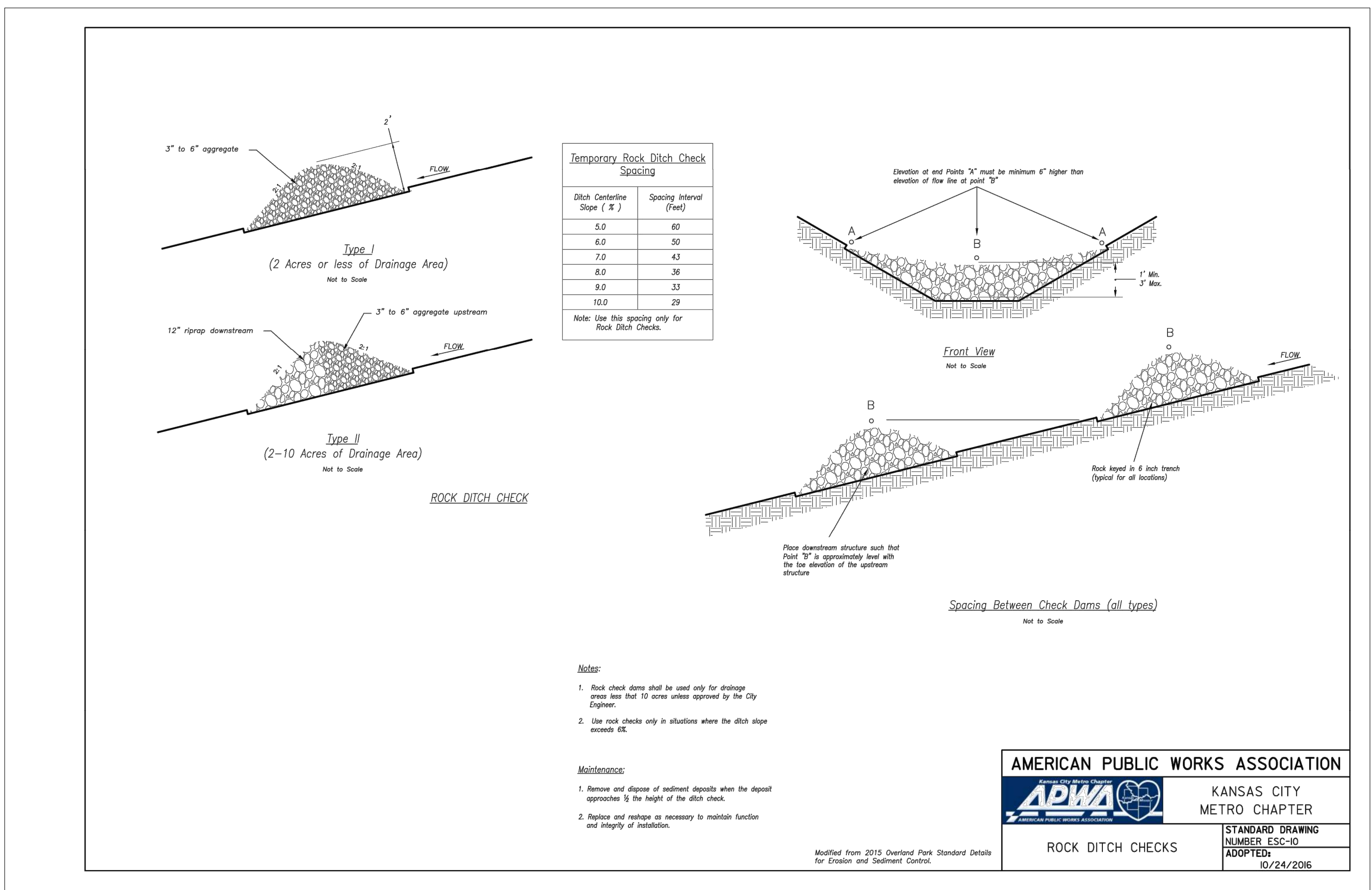
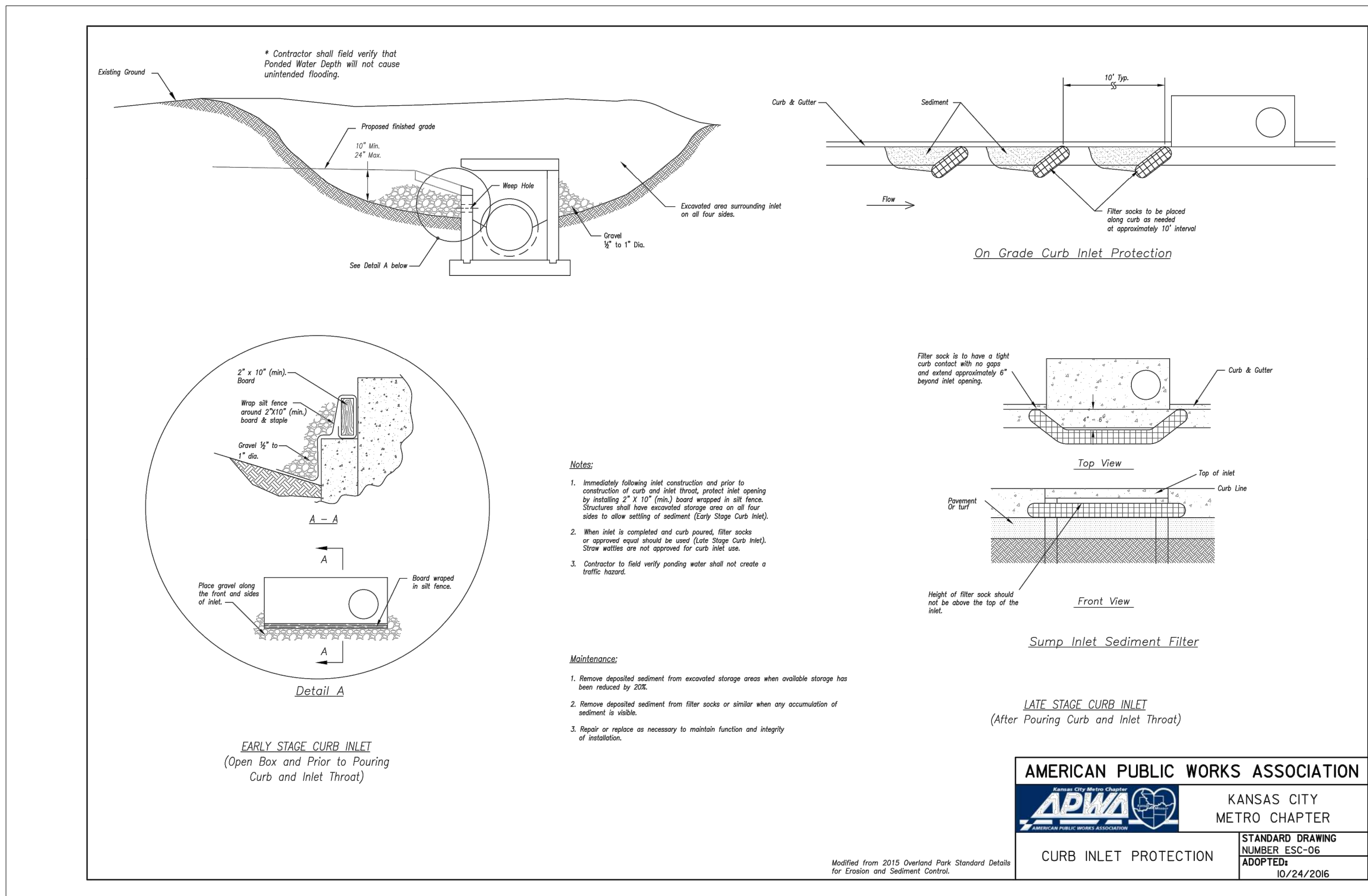
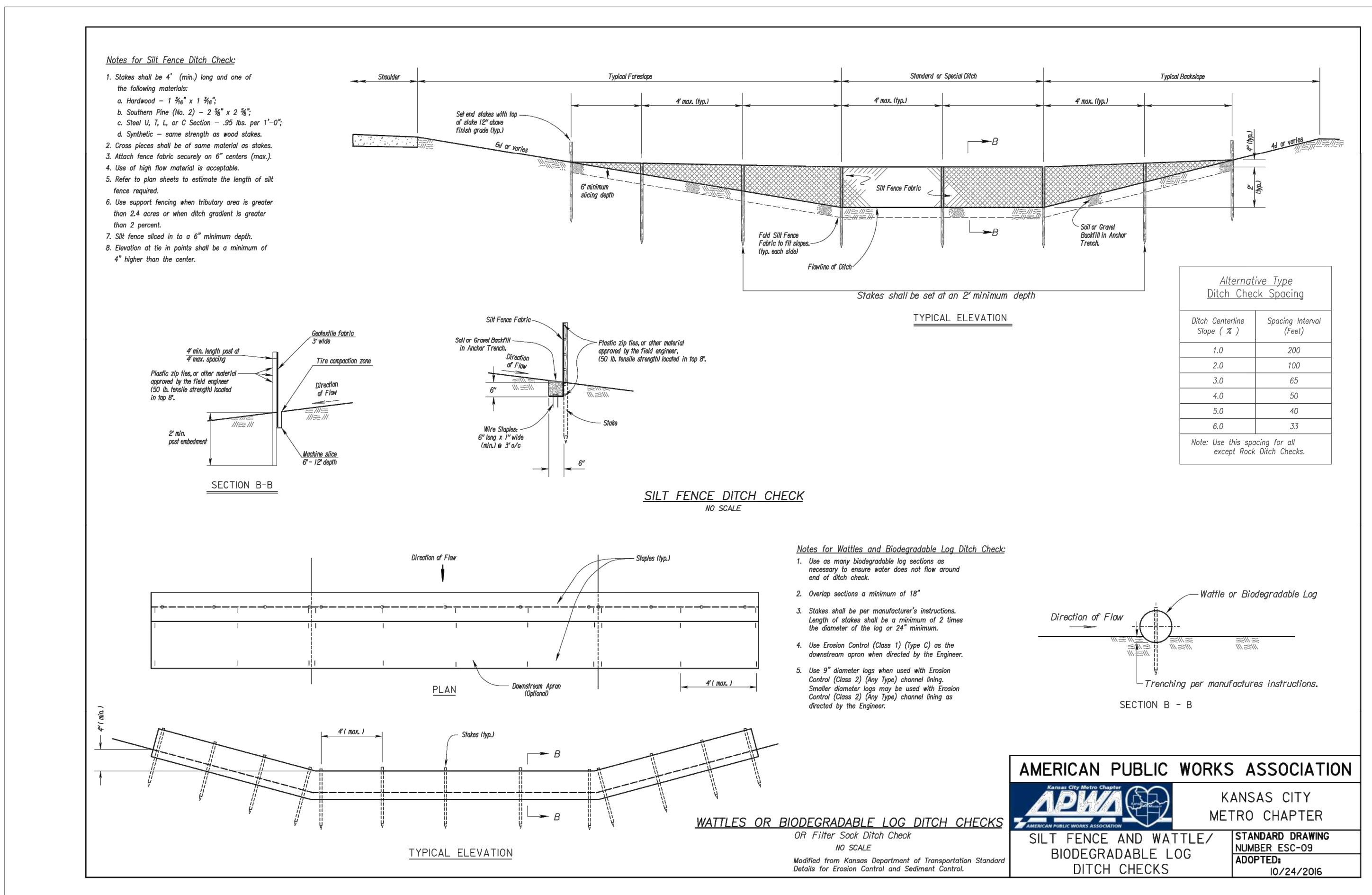
- Notes for Mulch and Compost Filter Beam:**
1. The sediment control berm shall be placed uncompact in a windrow at locations shown on the plans or as directed by the engineer.
 2. Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability on steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
 3. If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
 4. Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
 5. Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, log grinder or other approved method. Mulch sizing varies with a maximum width of 2\"/>

- Maintenance for Mulch and Compost Filter Beam:**
1. Berm shall be reshaped and material added as necessary to maintain function and dimensions.
 2. Breaches in the berm shall be repaired promptly.

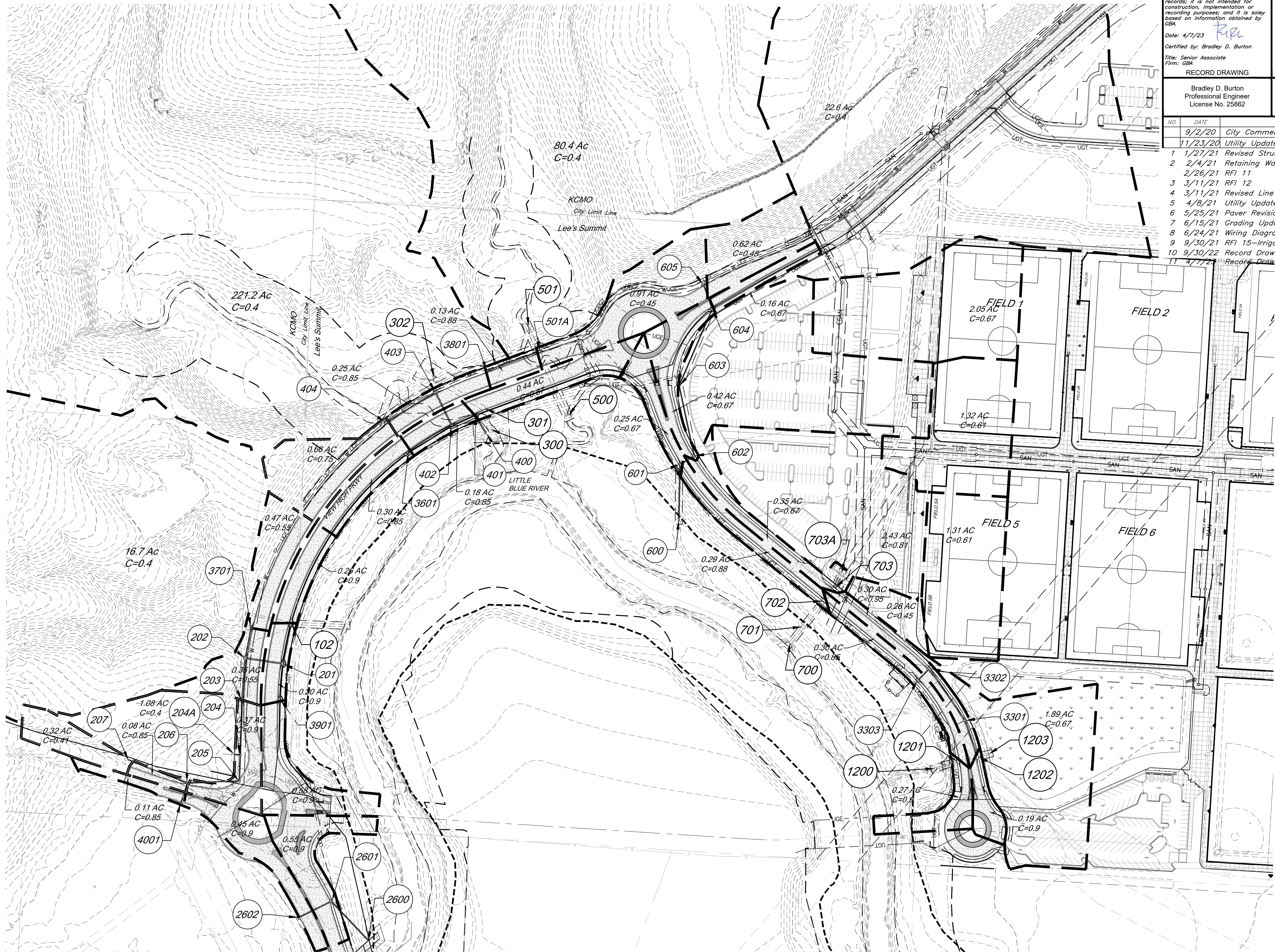
AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METRO CHAPTER	
WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM	STANDARD DRAWING NUMBER ESC-04 ADOPTED: 10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

Erosion Control Details



C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2000.dwg Layout: 31 Storm Drainage Map --- Thursday April 06, 2023, 3:41pm --- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA

RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
31	104

Bradley D. Burton
Professional Engineer
License No. 25862

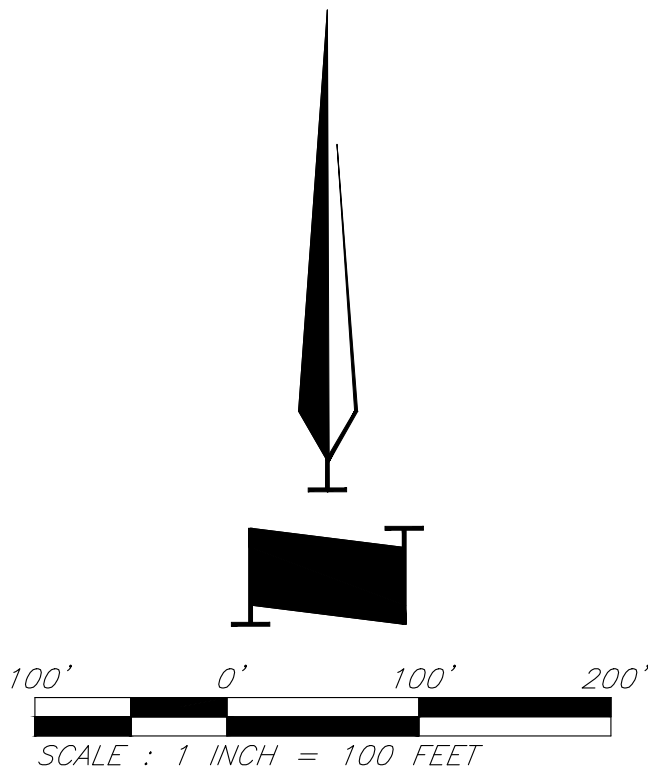
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.		DATE	REVISIONS	BY	APPROVED
9/2/20			City Comments		
11/23/20			Utility Updates		
1		1/27/21	Revised Structure Size		
2		2/4/21	Retaining Wall Station & Offsets		
2		2/26/21	RFI 11		
3		3/11/21	RFI 12		
4		3/11/21	Revised Line 400		
5		4/8/21	Utility Updates		
6		5/25/21	Paver Revision		
7		6/15/21	Grading Updates		
8		6/24/21	Wiring Diagram Updates		
9		9/30/21	RFI 15-Irrigation Sleeves		
10		9/30/22	Record Drawings		
11		4/7/23	Record Drawings		

As-Built: "400-90 100.10" "4-80W 1.15% slope; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

- Proposed Contours
- Existing Contours
- Drainage Area Boundary



Storm Drainage Map

[illegible]

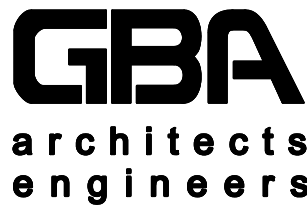
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Date: 4/7/23 

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

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DATE: 6-25-2020	
DESIGN BY: CEL	
DRAWN BY: DRV	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS

32 | 104

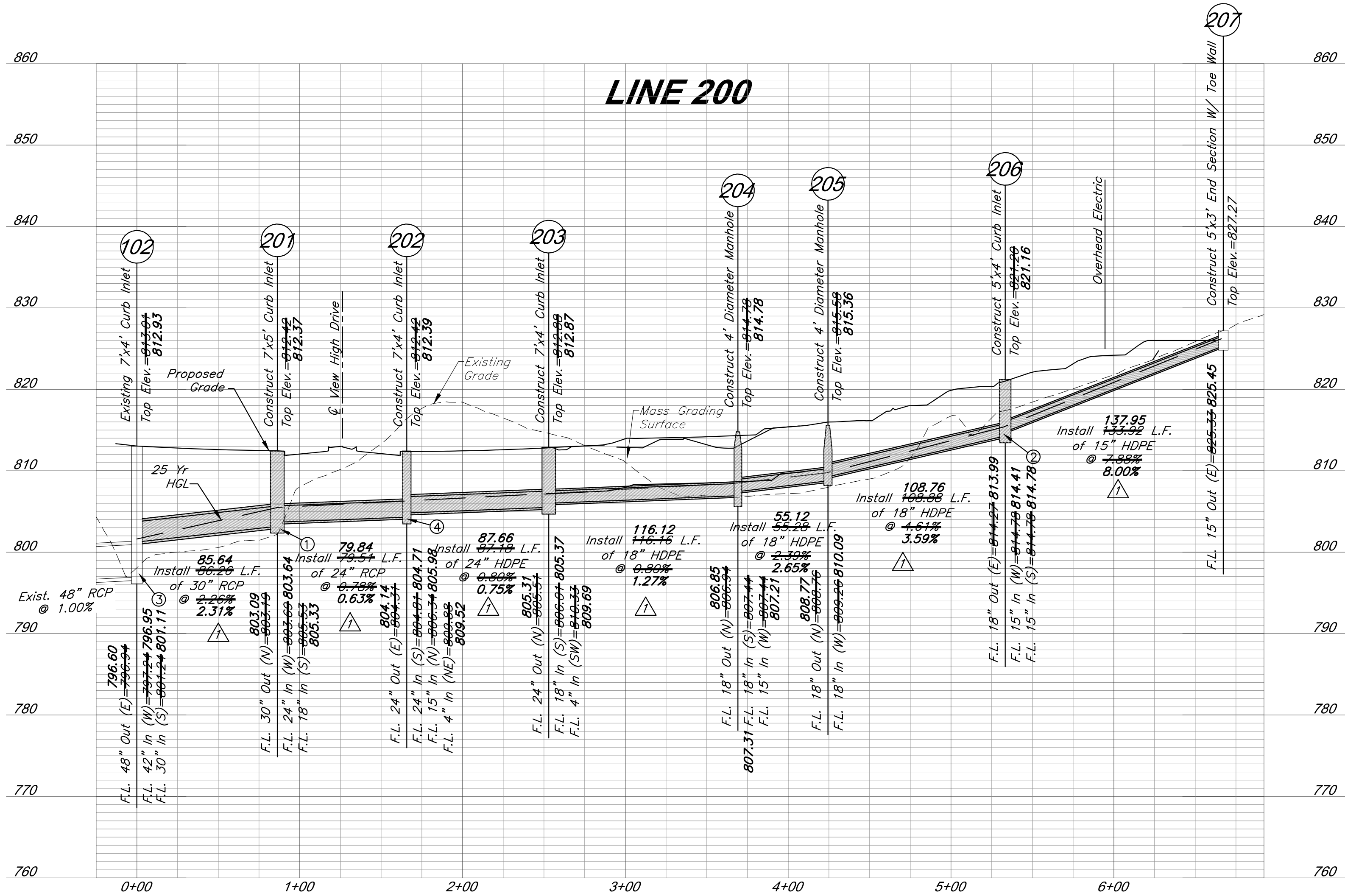
Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

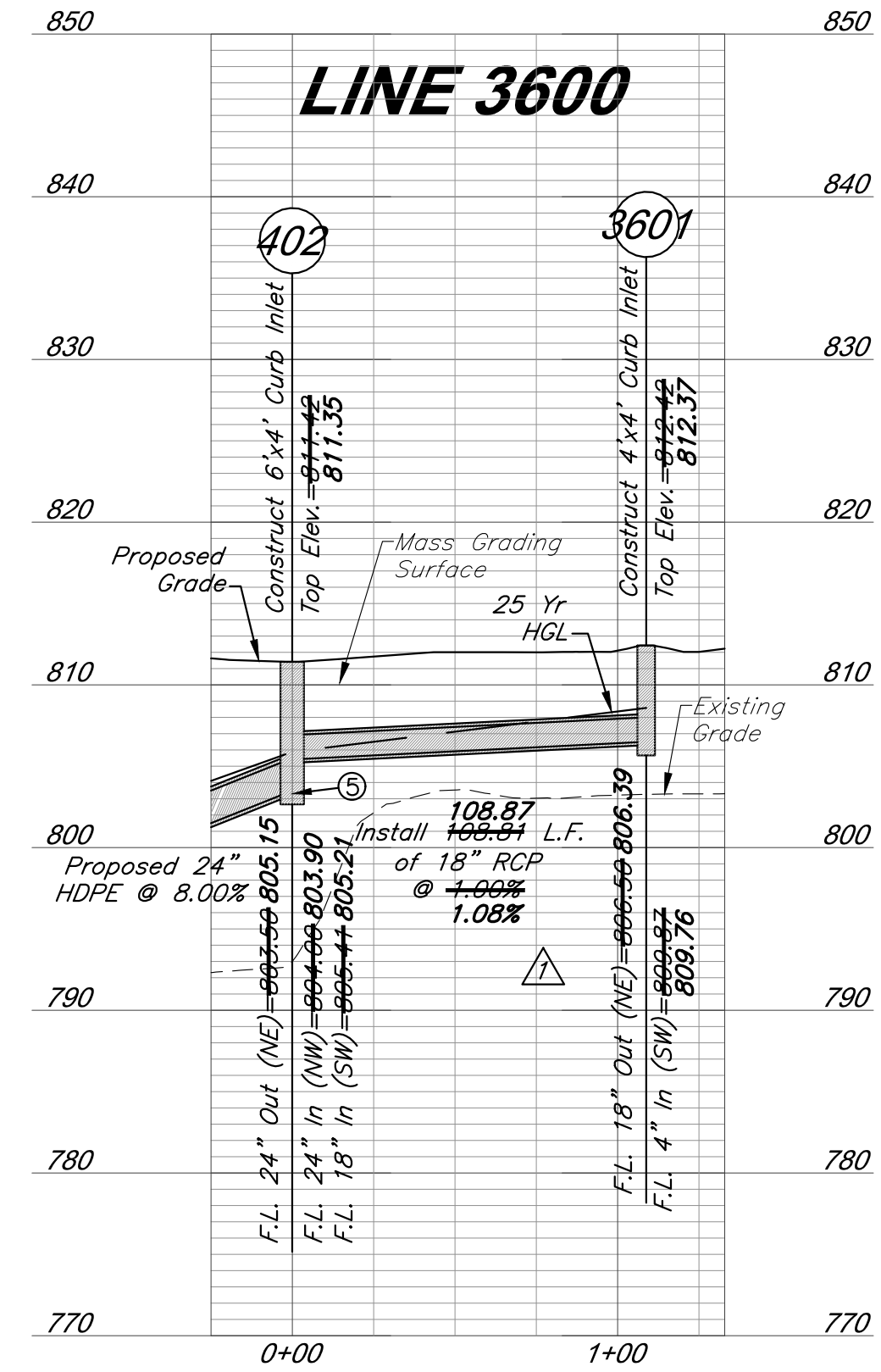
NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

1	1/27/21	Revised Structure Size
2	2/4/21	Retaining Wall Station & Offsets
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6	5/25/21	Paver Revision
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8	6/24/21	Wiring Diagram Updates
9	9/30/21	RFI 15-Irrigation Sleeves
10	9/30/22	Record Drawings
11	4/7/23	Record Drawings

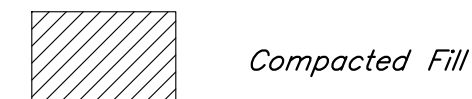
As-Built: "±00.00 100.10," "±.00% 1.15% slope," or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



Note:
1) Compacted Fill shall be placed to a minimum 18" above the top of pipe prior to installation.

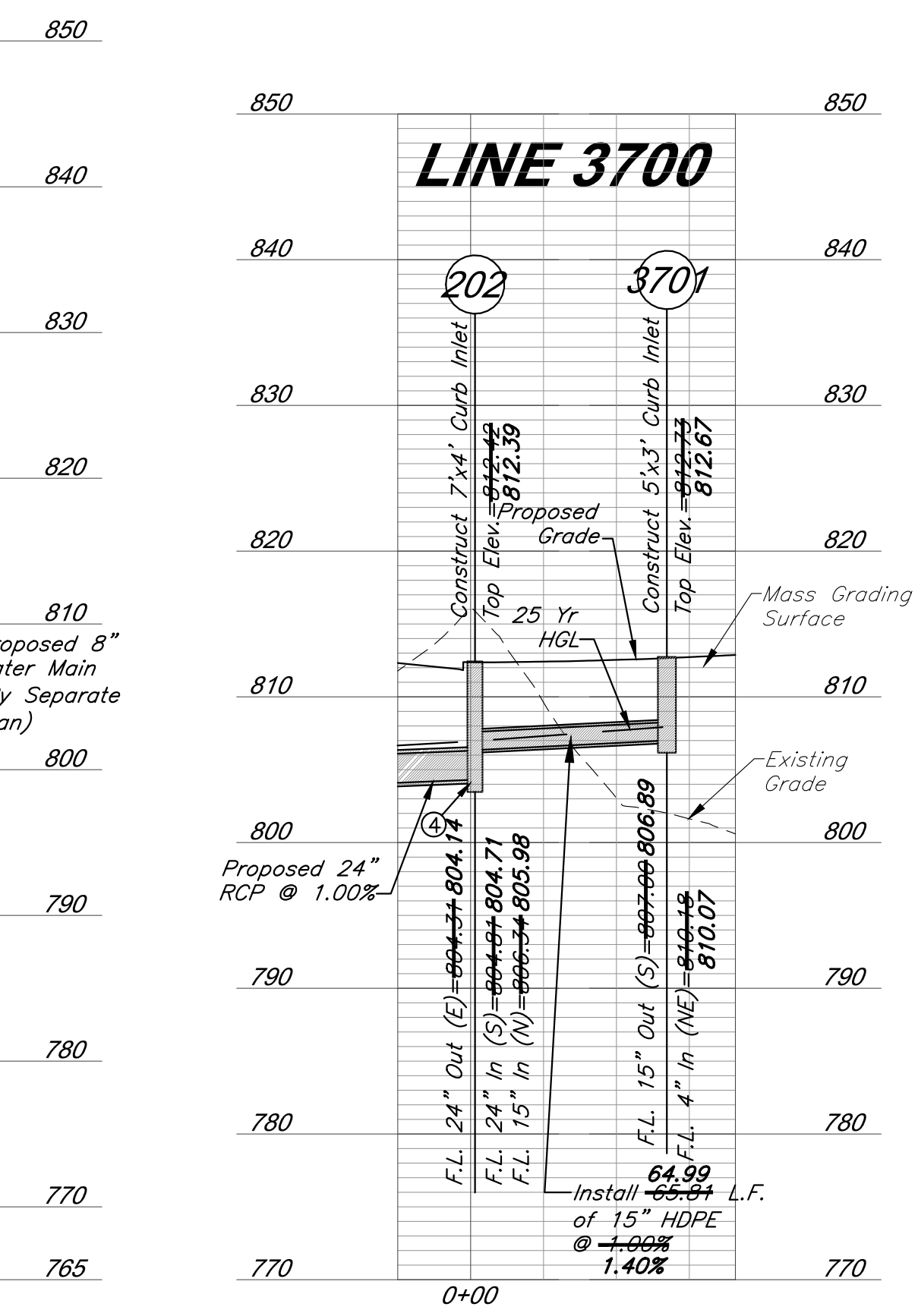
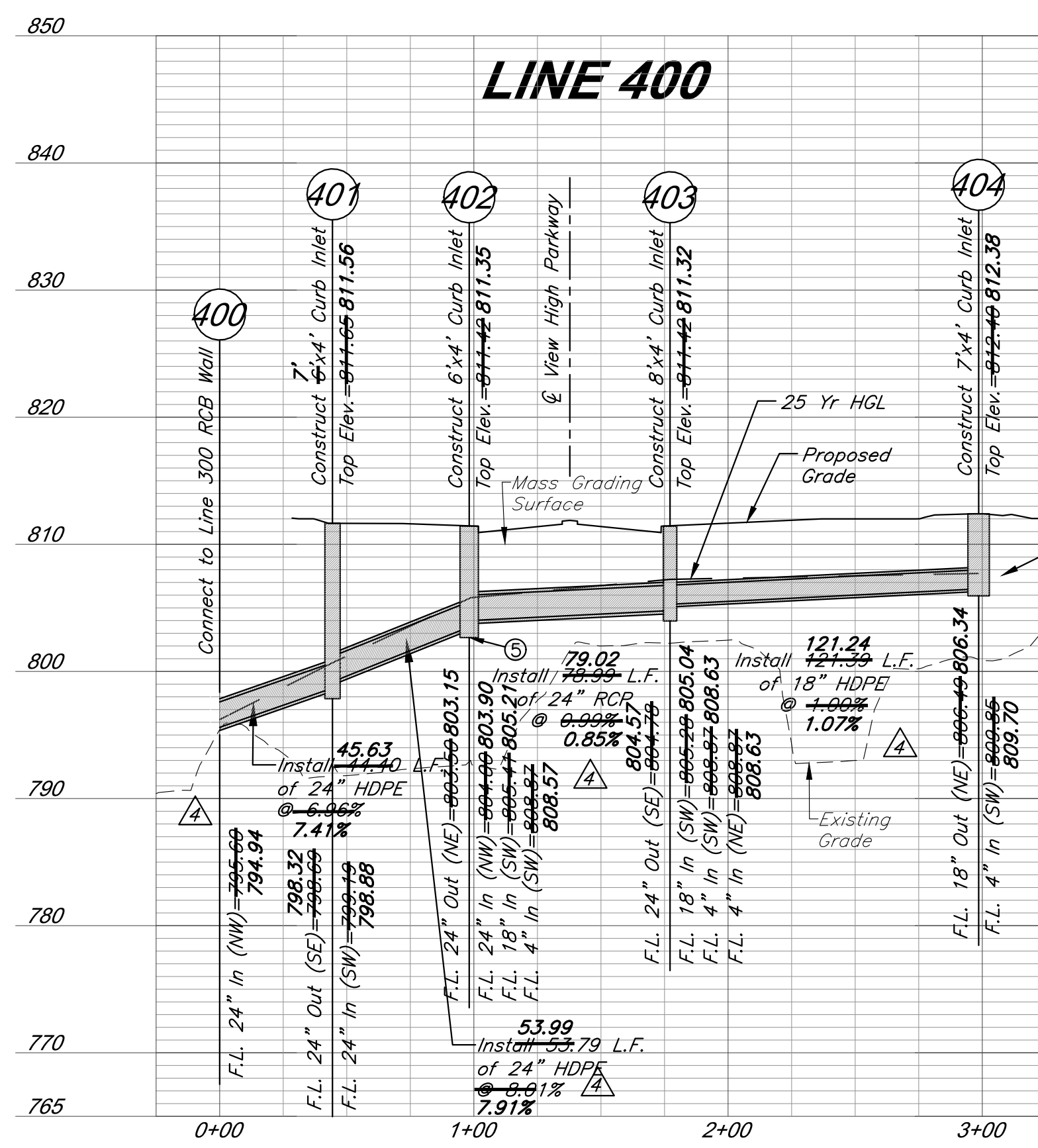
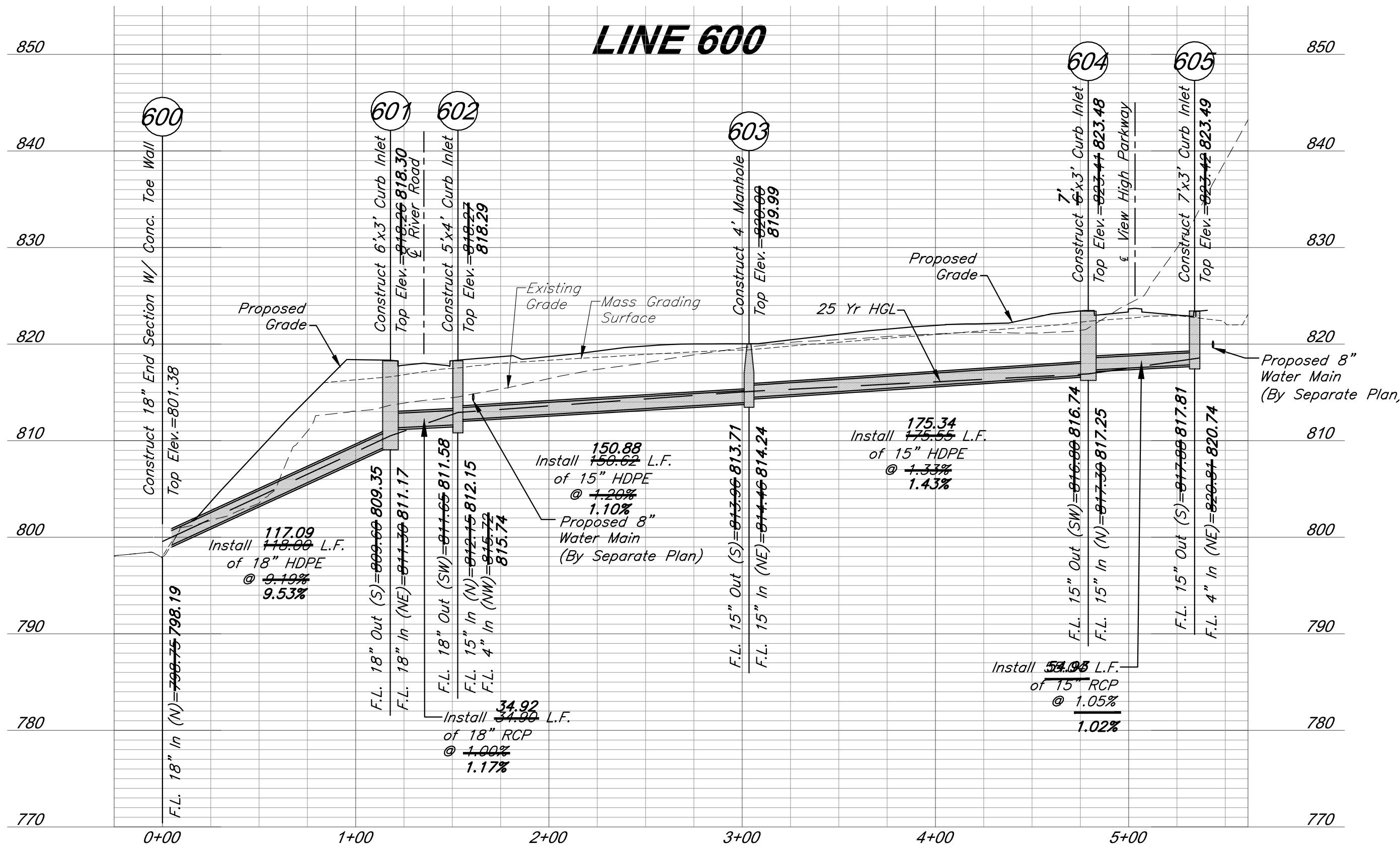
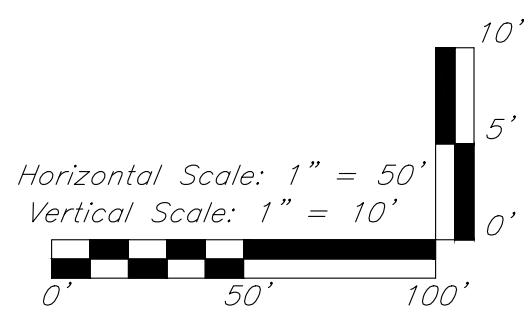


Legend



Connections:

- Line 3900 Sta 0+00.00 = Line 200 Sta 0+86.33
- Line 4000 Sta 0+00.00 = Line 200 Sta 4+81.43
- Line 200 Sta 0+00.00 = Line 100 Sta 1+41.87
- Line 3700 Sta 0+00.00 = Line 200 Sta 1+64.34
- Line 3600 Sta 0+00.00 = Line 400 Sta 0+98.75



Storm Sewer Profiles As-Built

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Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA
RECORD DRAWING

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architects
engineers
9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
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DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. 33
TOTAL SHEETS 104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

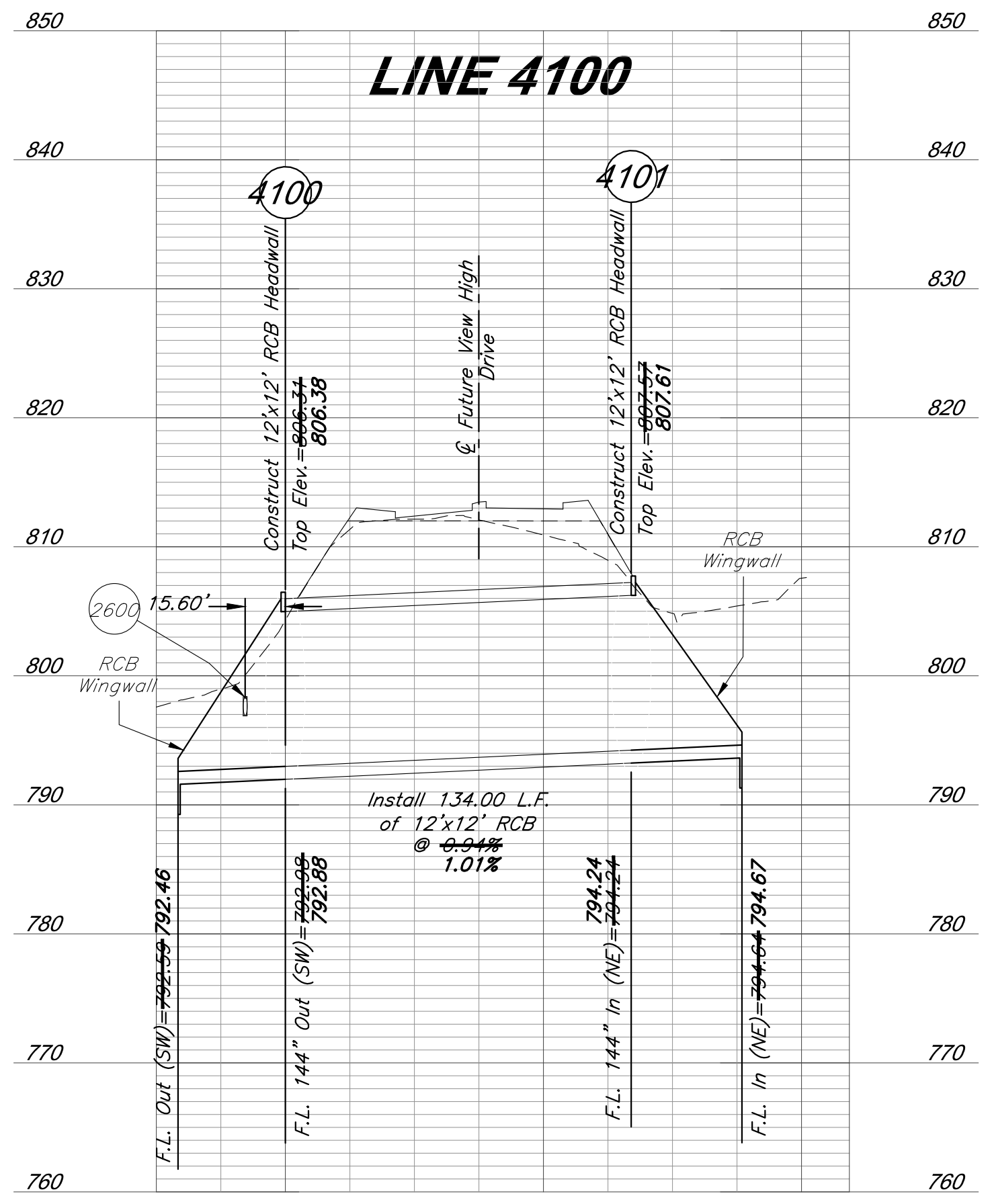
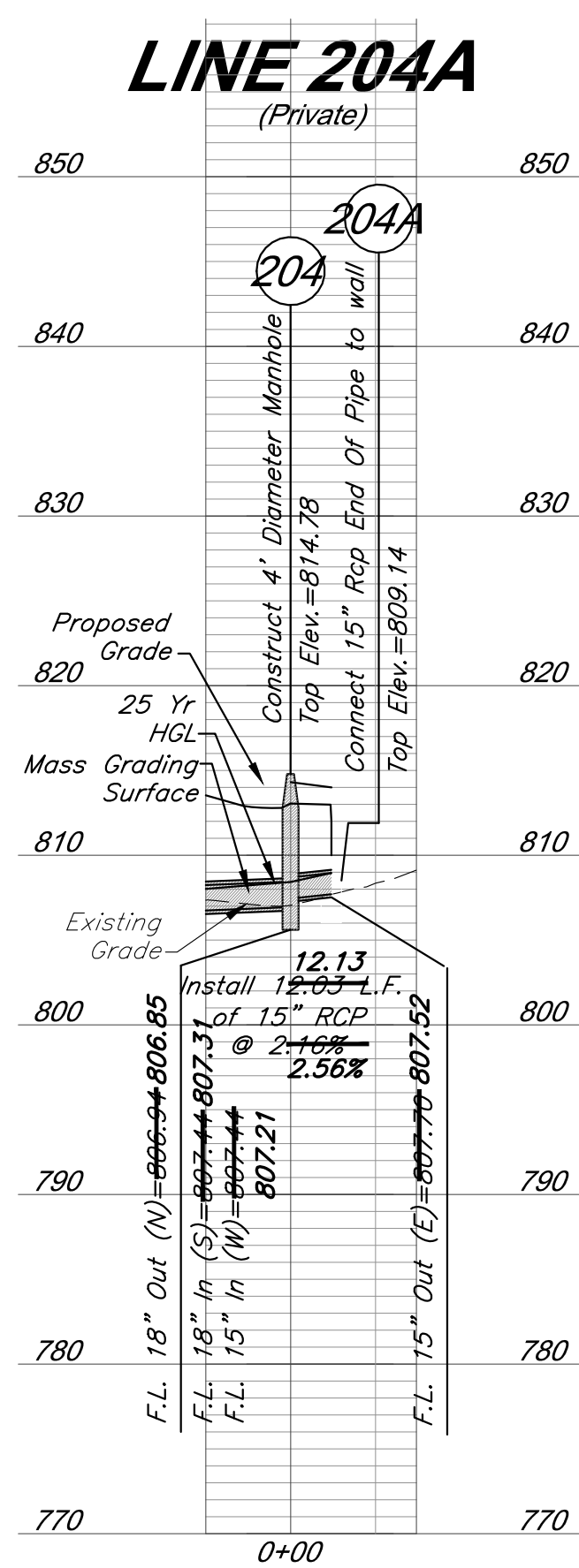
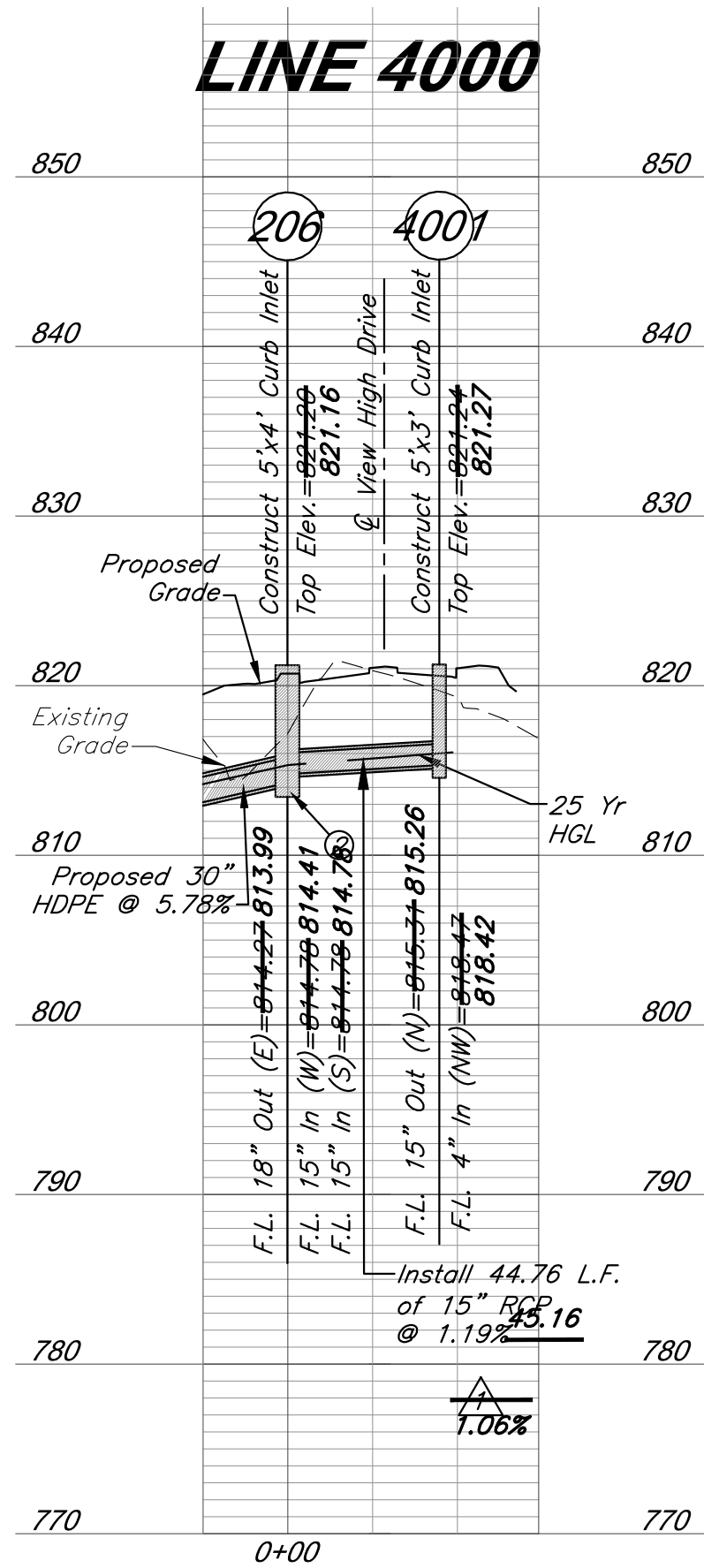
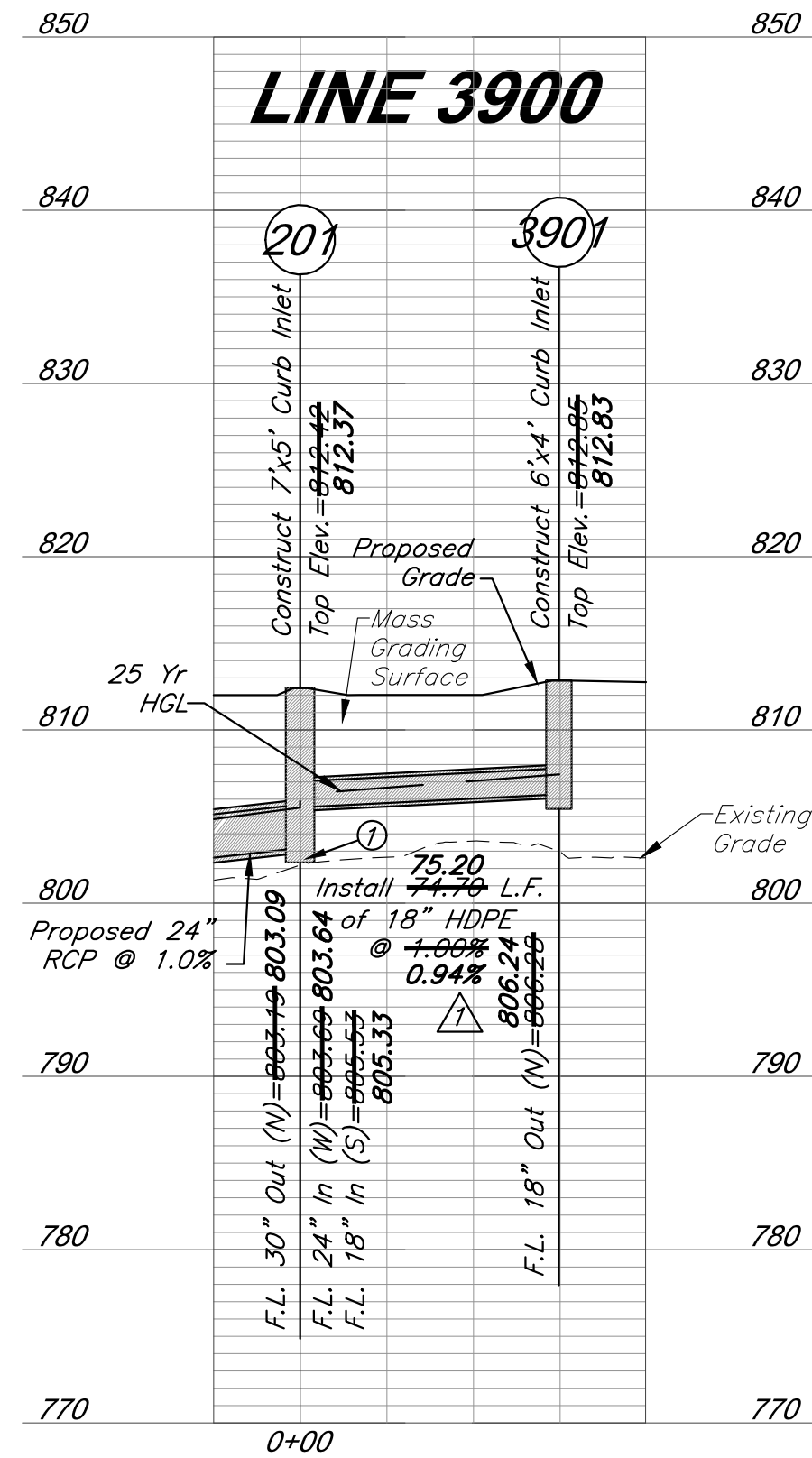
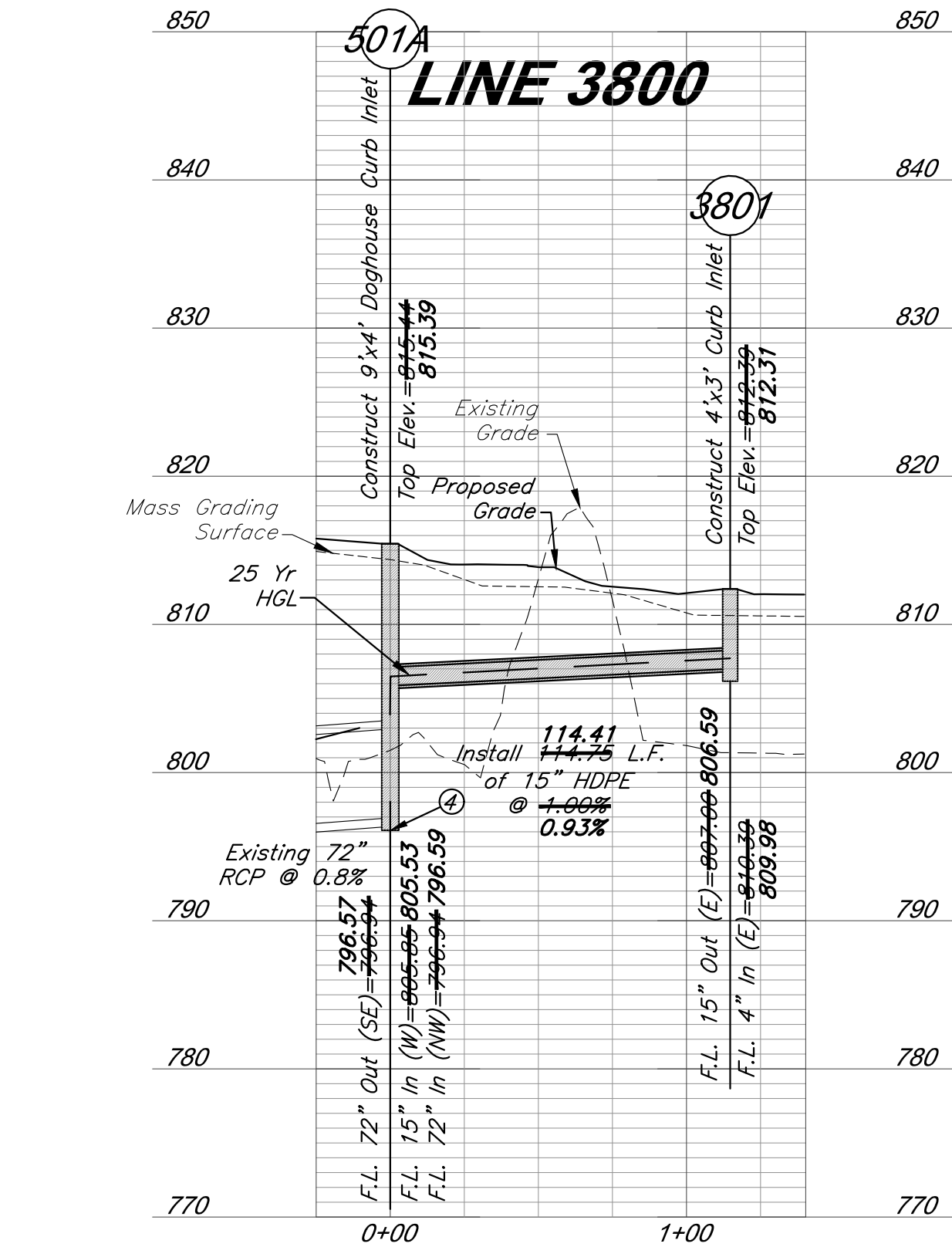
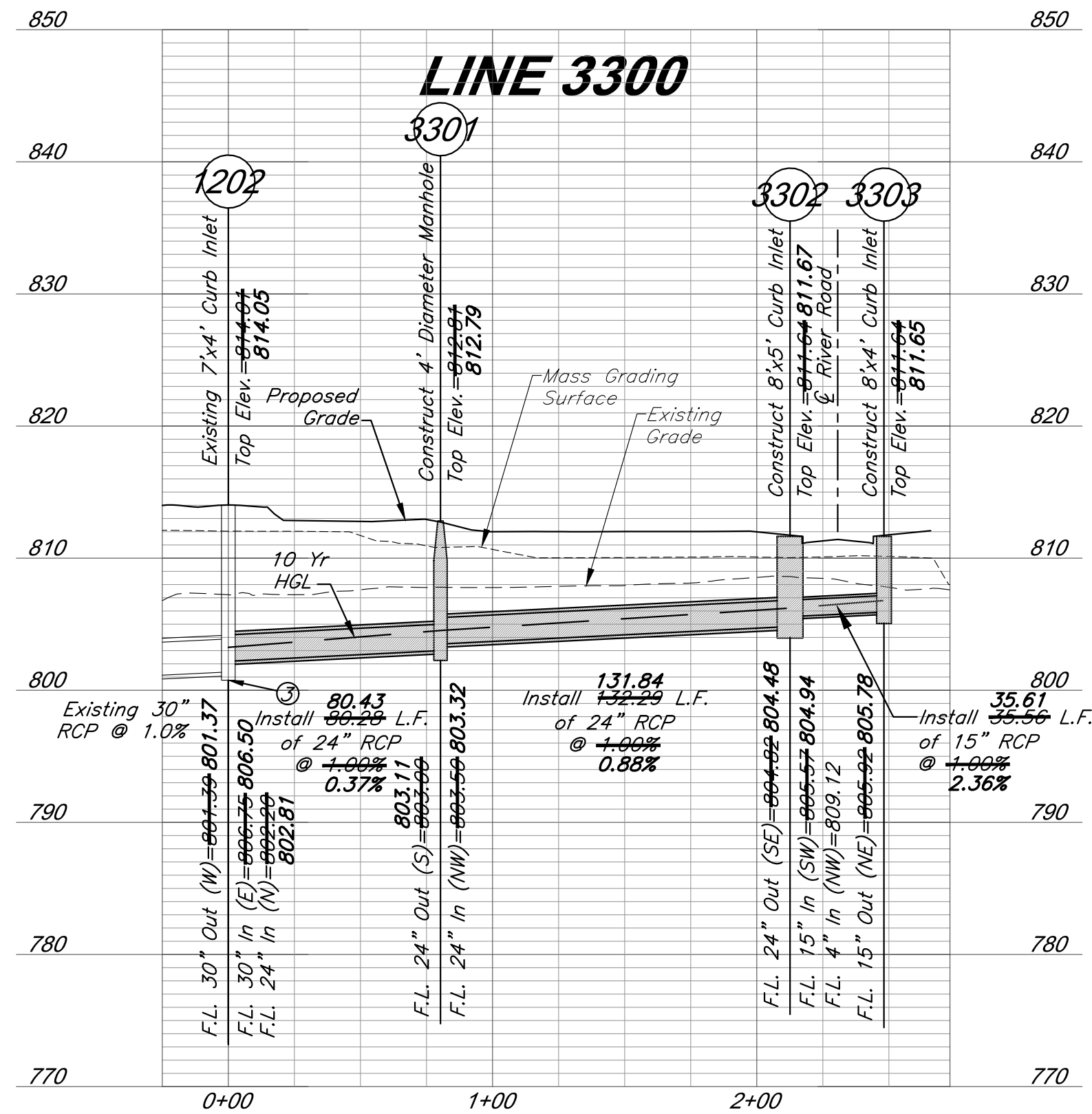
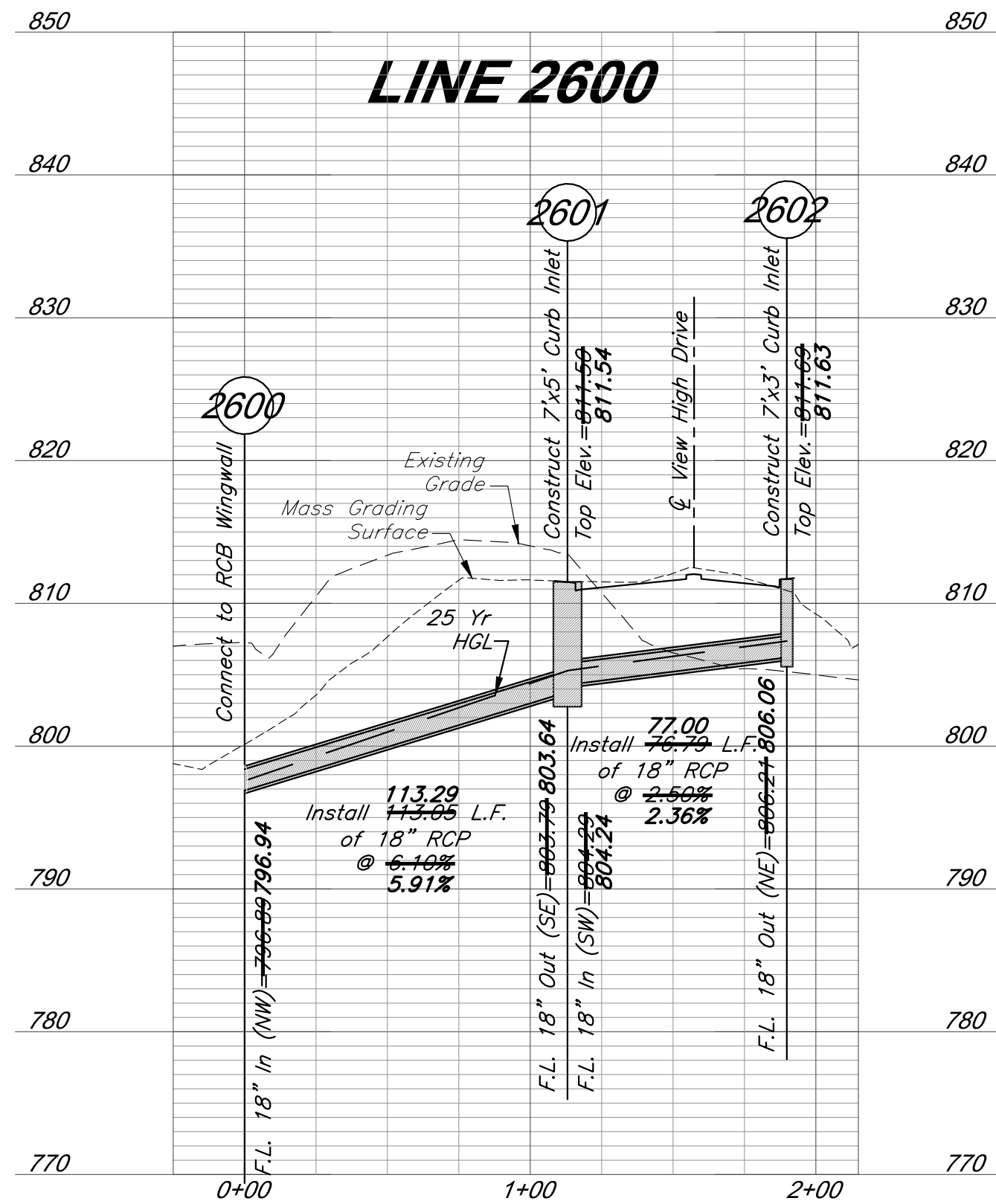
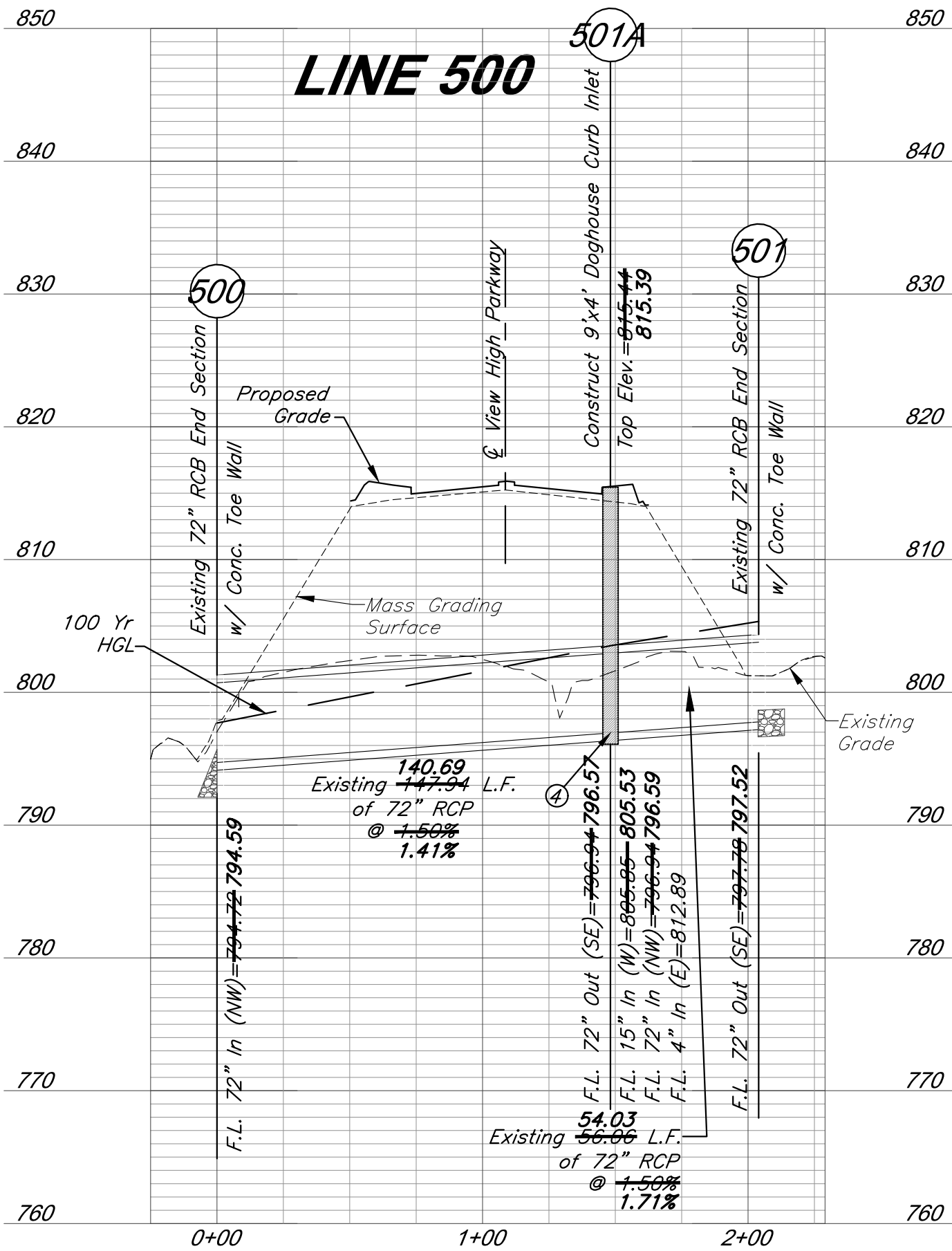
Bradley D. Burton
Professional Engineer
License No. 25862

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
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- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10", "4-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

C:\12720\Civil 3D Production Drawings\Street & Storm Plans\12720C1400.dwg Layout: 34 Storm Sewer Profiles --- Thursday, April 06, 2023, 3:42pm --- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



Note:

- 1) Compacted Fill shall be placed to a minimum 18" above the top of pipe prior to installation.

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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architects
engineers

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO.: 34
TOTAL SHEETS: 104

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Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

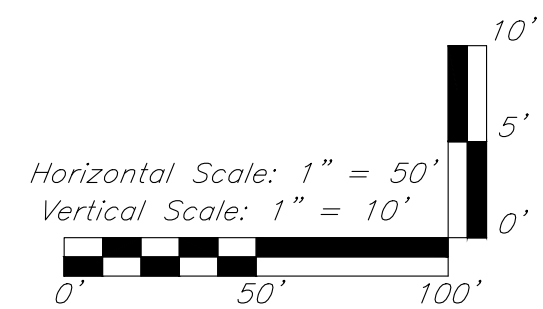
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- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
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- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

Legend

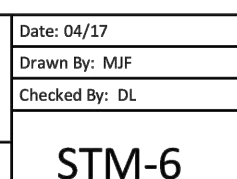
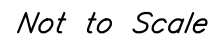
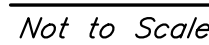
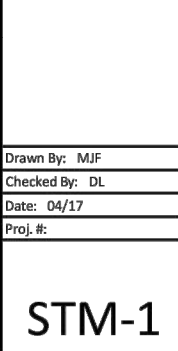
Compacted Fill

Connections:

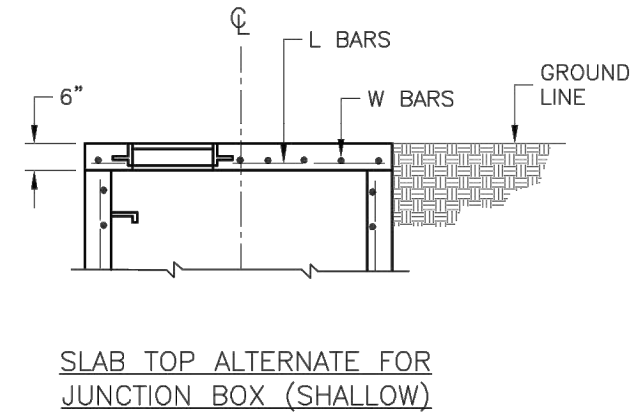
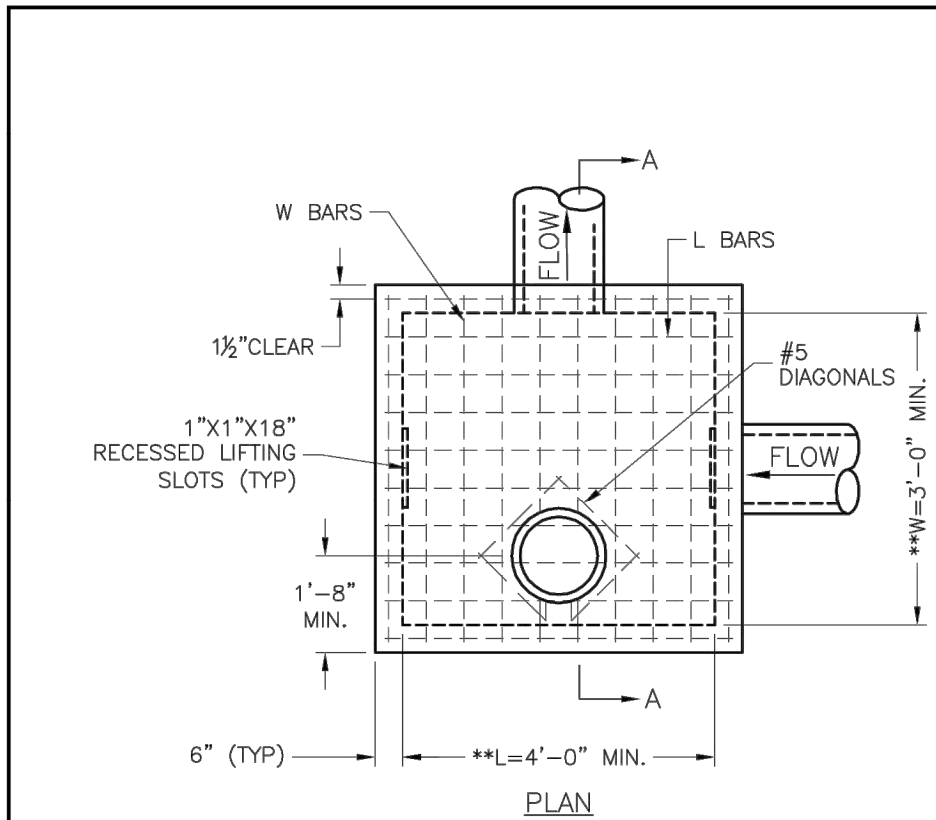
- ① Line 3900 Sta 0+00.00 = Line 200 Sta 0+86.33
- ② Line 4000 Sta 0+00.00 = Line 200 Sta 4+81.43
- ③ Line 3300 Sta 0+00.00 = Line 1200 Sta 1+19.13
- ④ Line 3800 Sta 0+00.00 = Line 500 Sta 1+48.20



Storm Sewer Profiles As-Built

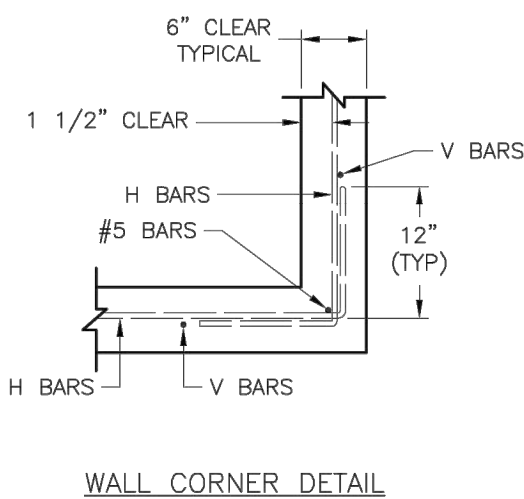
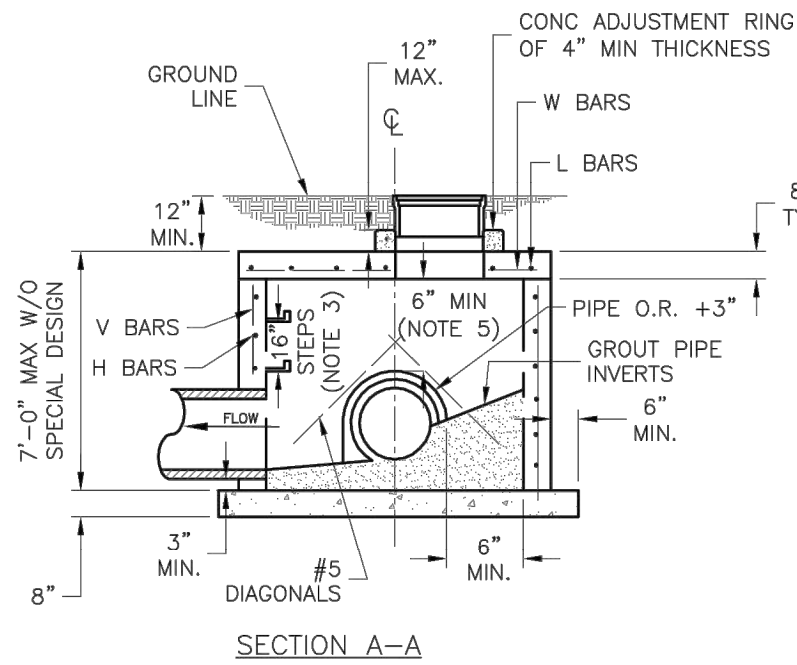


C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2200.dwg Layout: 36 Storm Sewer Details -- Thursday April 06, 2023, 3:42pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

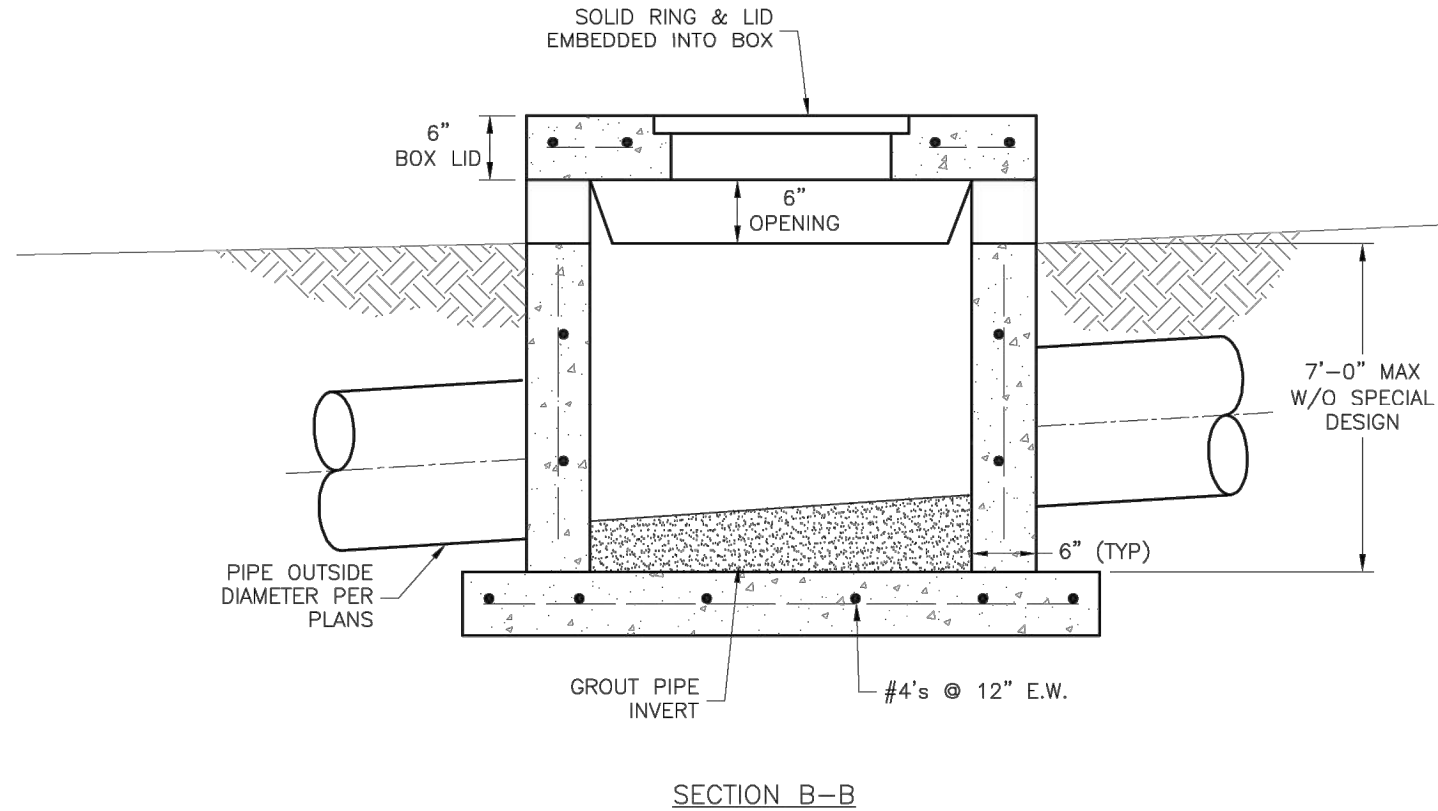
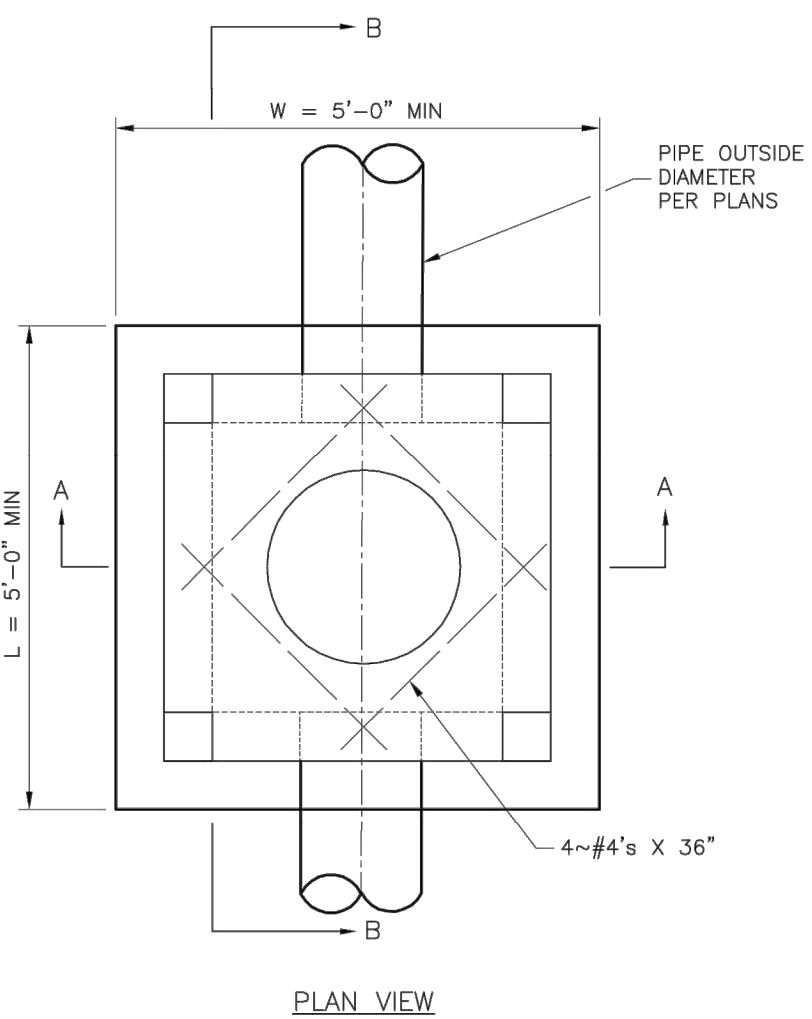


** INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

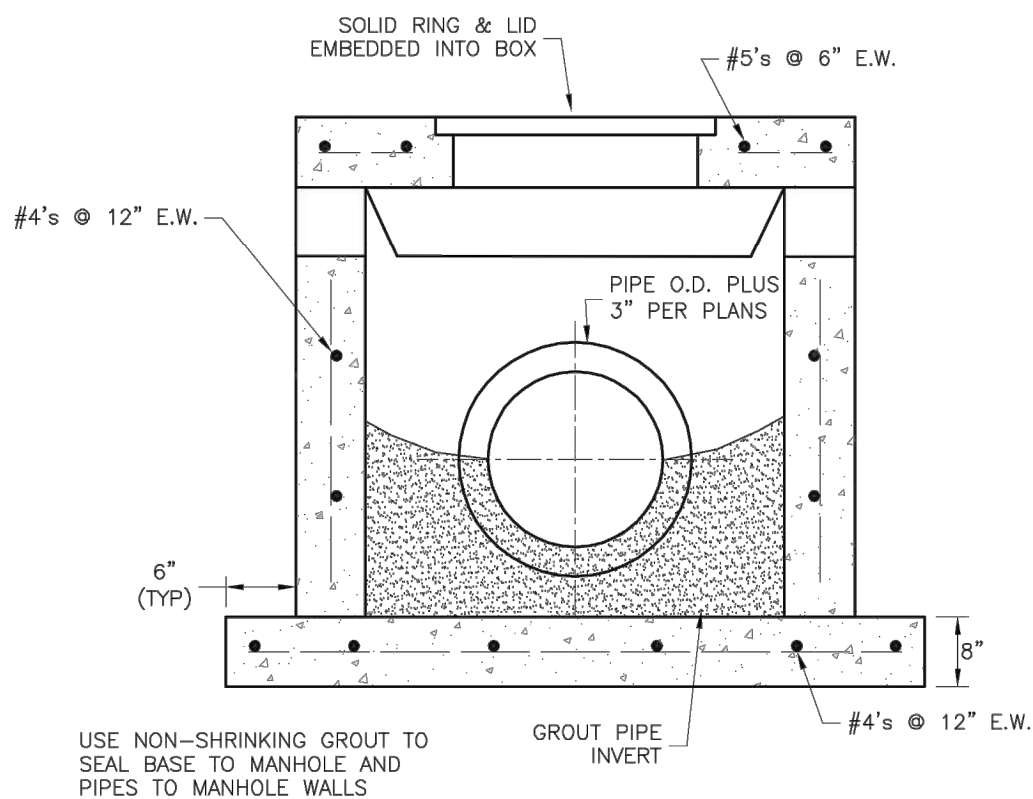
REINFORCING		
BAR	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6



- GENERAL NOTES:
1. LOCATE RING AND COVER ON BLANK WALL.
 2. USE $\frac{3}{8}$ " CHAMFER STRIP OR $\frac{1}{2}$ " R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
 3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
 4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
 5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
 6. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
 7. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
 8. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

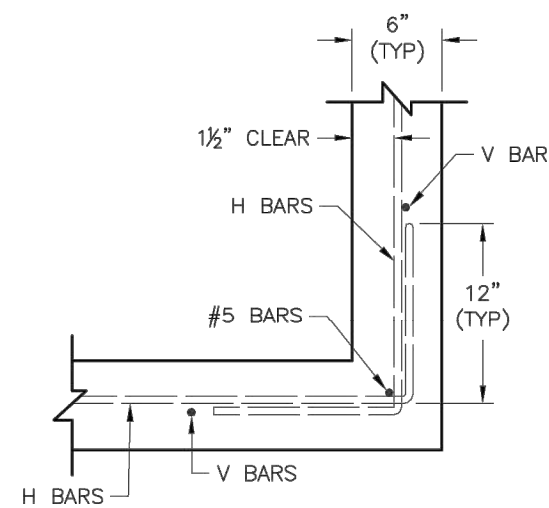


SECTION B-B



SECTION A-A

- GENERAL NOTES:
1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
 2. USE $\frac{3}{8}$ " CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
 3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
 4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
 5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
 6. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
 7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
 8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
 9. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.



WALL CORNER DETAIL

LEE'S SUMMIT MISSOURI

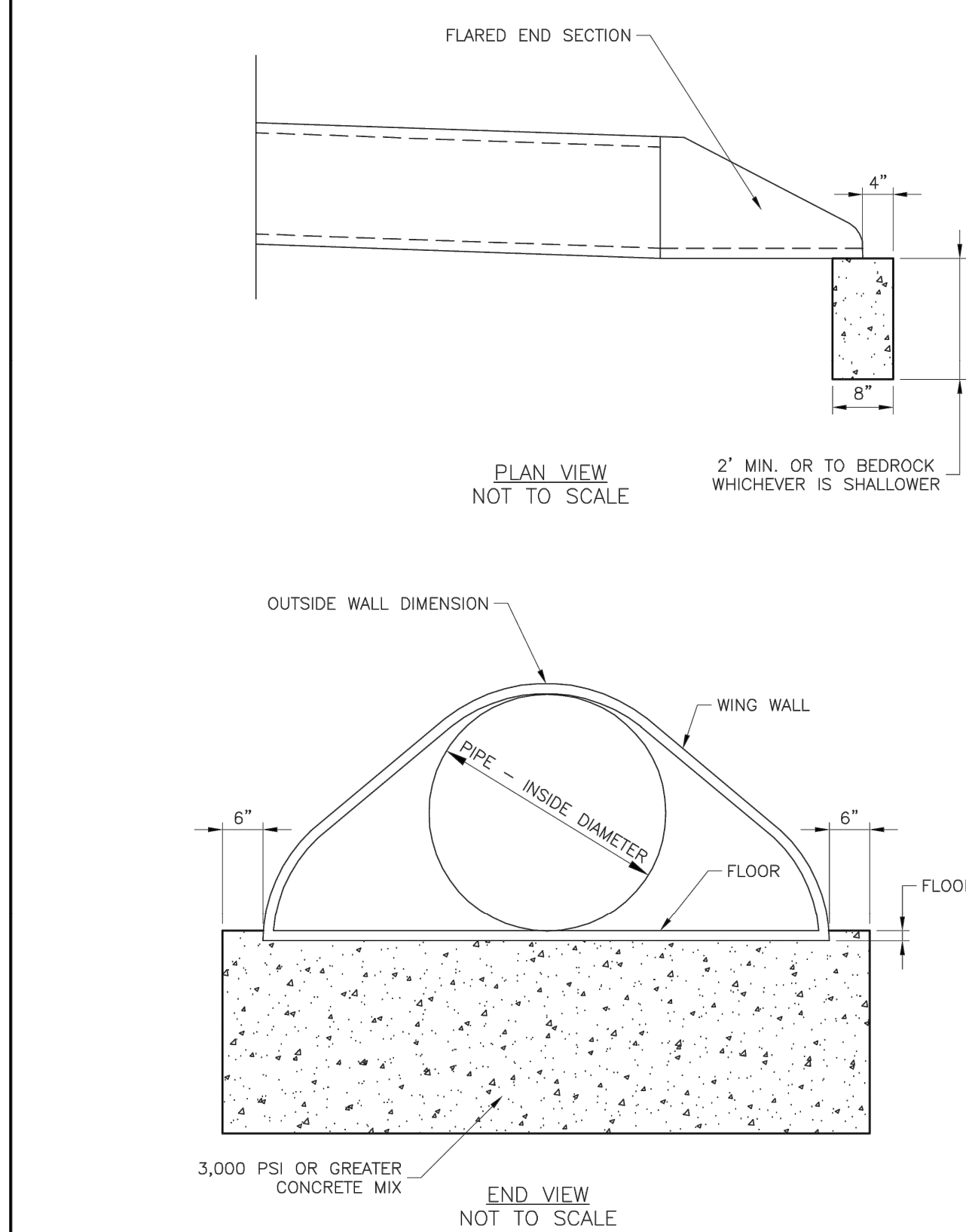
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

STM-3

LEE'S SUMMIT MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

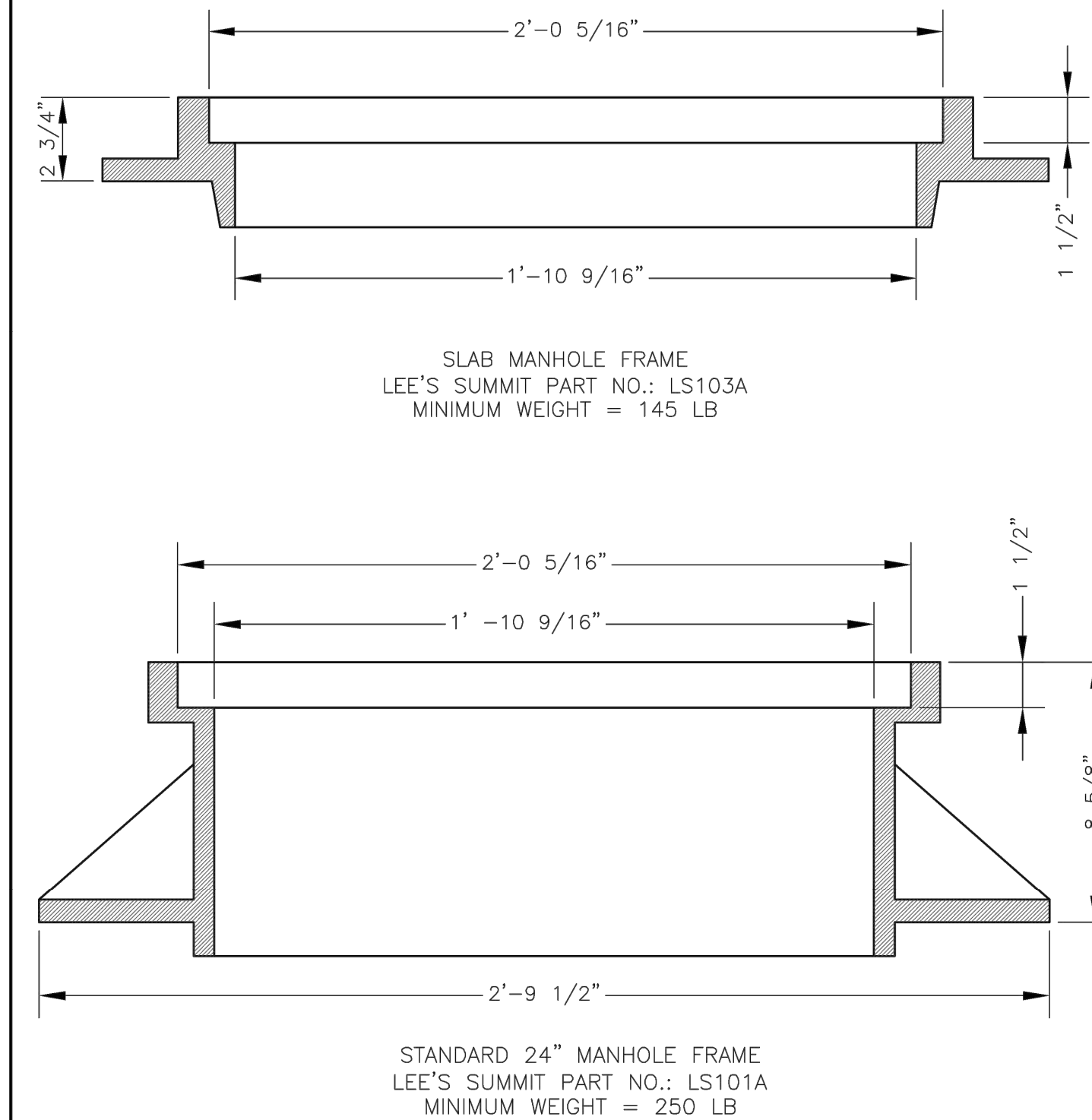
STM-2



LEE'S SUMMIT MISSOURI

FLARED END SECTION SUPPORT DETAIL

STM-5



LEE'S SUMMIT MISSOURI

STORM MANHOLE FRAME DETAIL

STM-7

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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engineers

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Lenexa, Kansas 66219
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DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. 36
TOTAL SHEETS 104

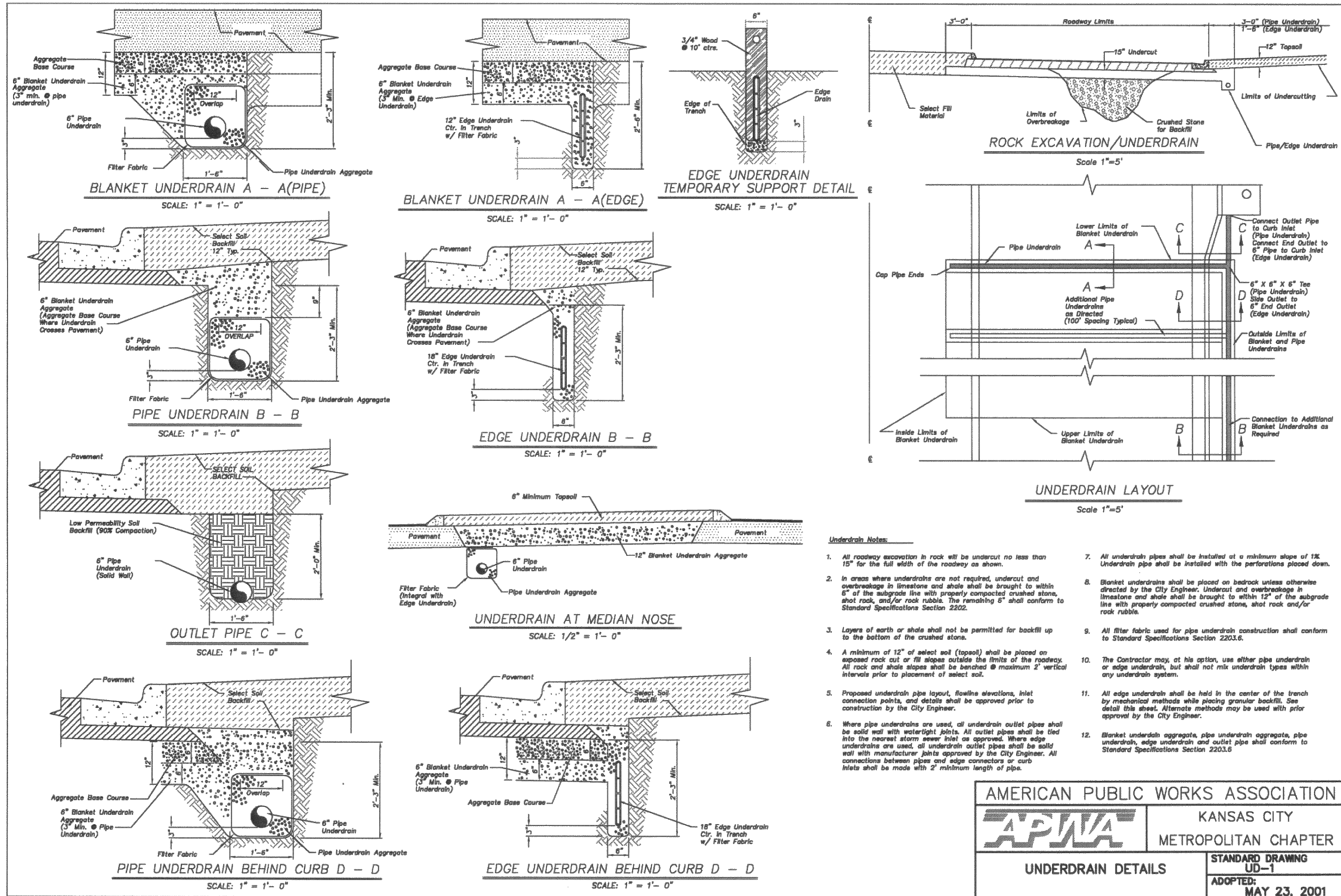
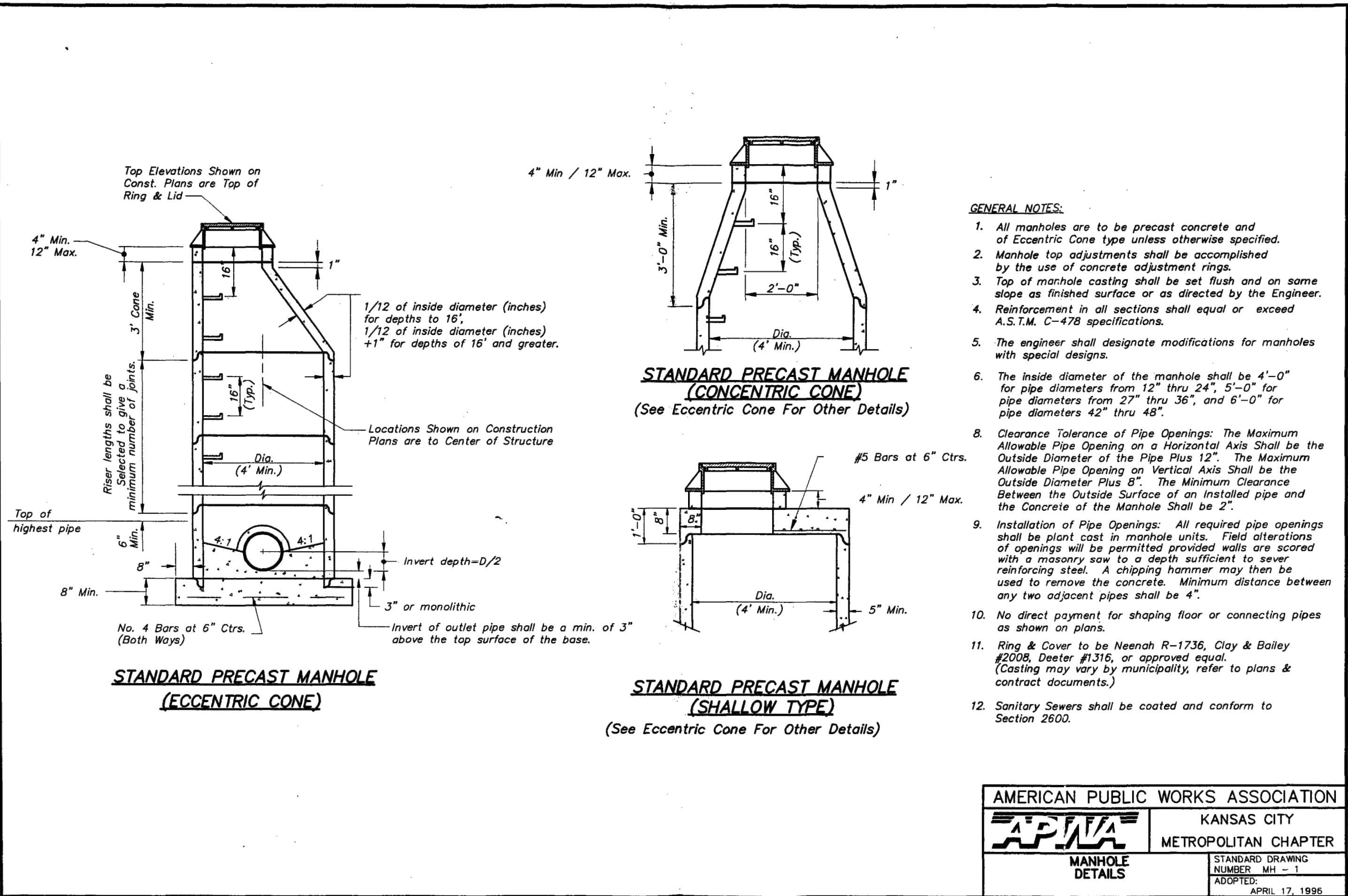
Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		
3	1/27/21	Revised Structure Size		
4	2/4/21	Retaining Wall Station & Offsets		
5	2/26/21	RFI 11		
6	3/11/21	RFI 12		
7	3/11/21	Revised Line 400		
8	4/8/21	Utility Updates		
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10	6/15/21	Grading Updates		
11	6/24/21	Wiring Diagram Updates		
12	9/30/21	RFI 15-Irrigation Sleeves		
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Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059
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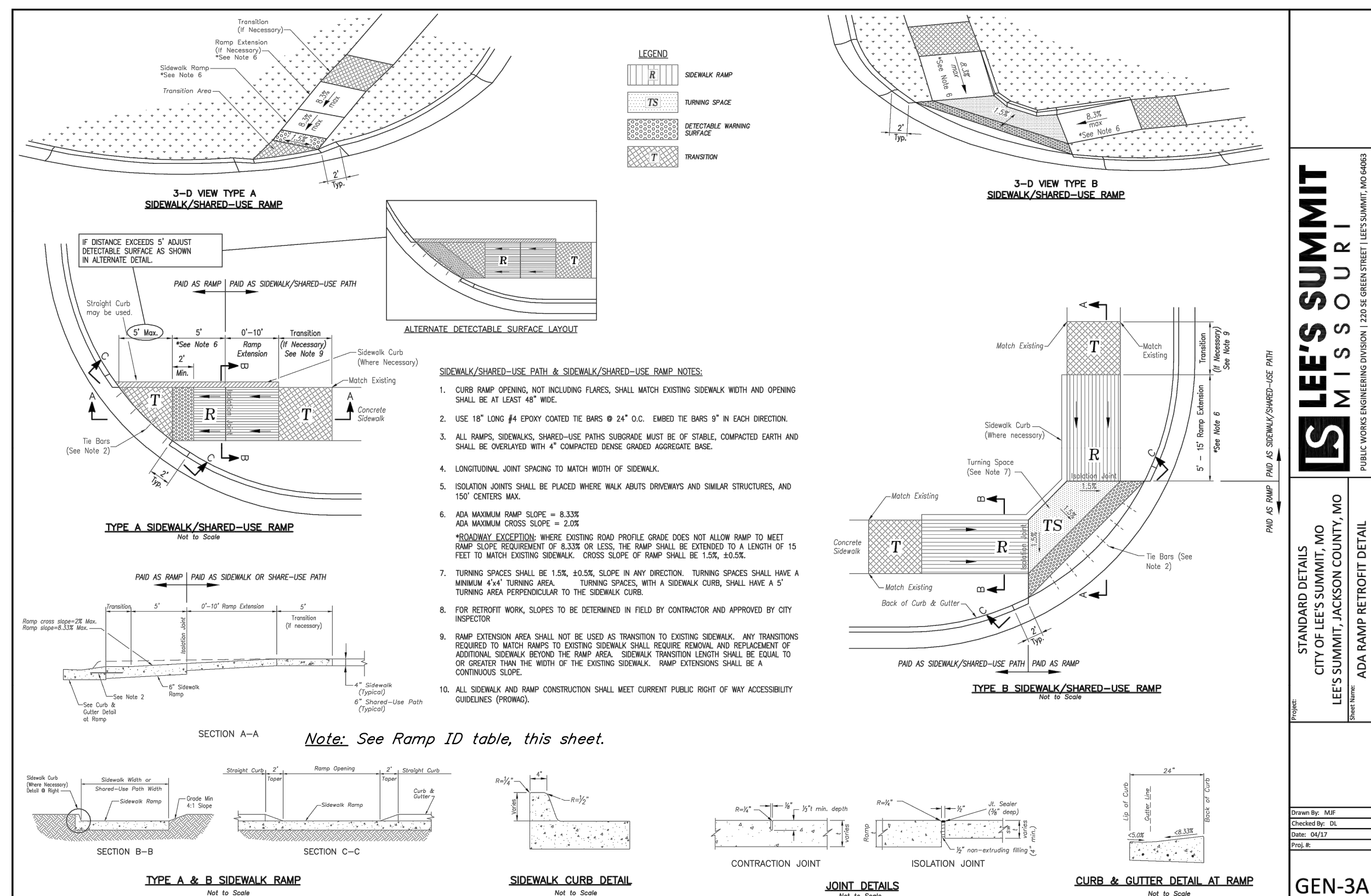
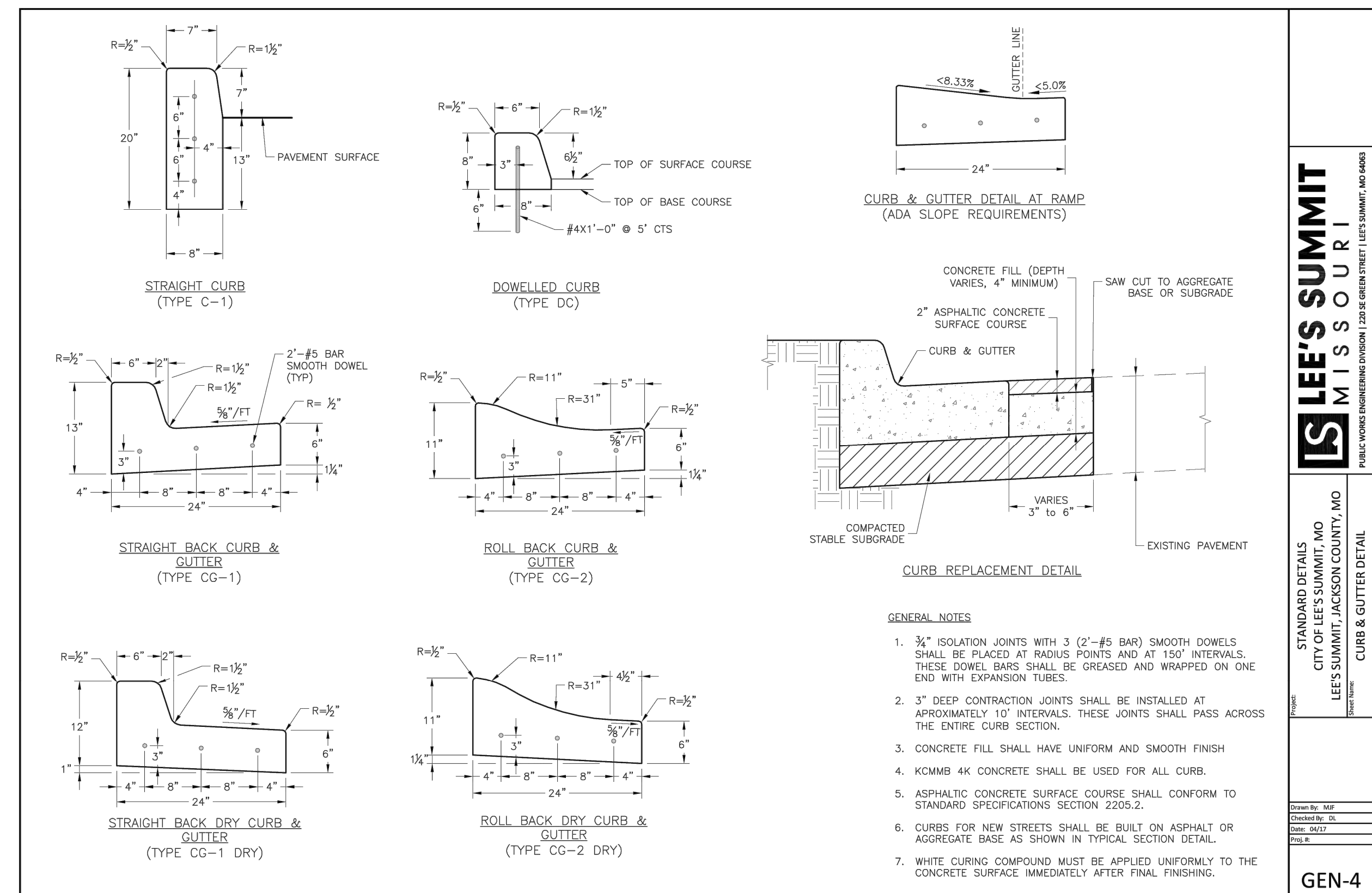
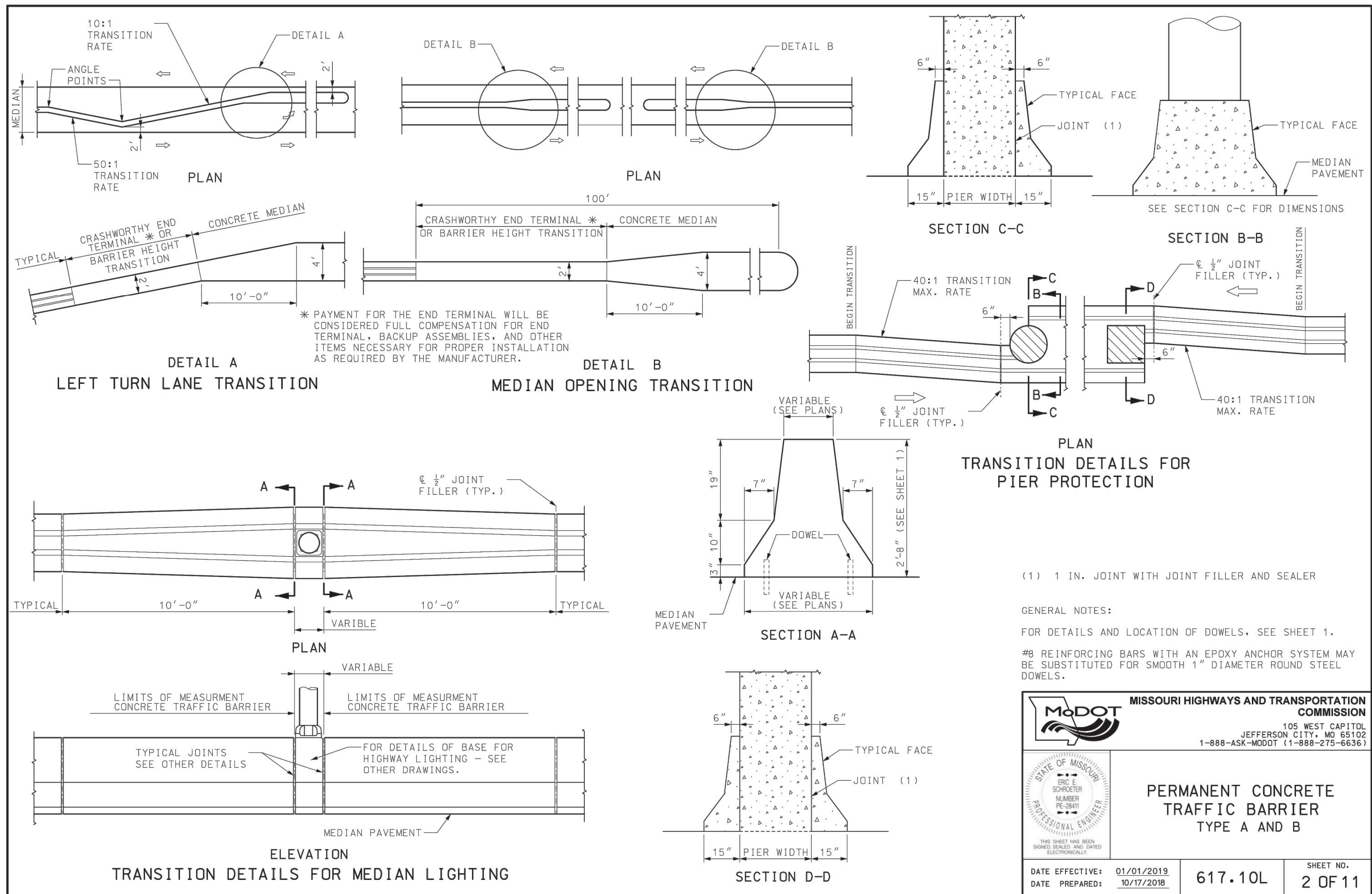


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DESIGN BY: CEL		DRAWN BY: DRV	
PROJECT NO.: 12720		SHEET NO. TOTAL SHEETS	
37		104	

Bradley D. Burton Professional Engineer License No. 25862		Street and Storm Sewer Plans Paragon Star Development Lee's Summit, Missouri	
---	--	---	--

NO.	DATE	REVISIONS	BY	APPROVED
9/2/20		City Comments		
11/23/20		Utility Updates		

1	1/27/21	Revised Structure Size	As-Built: "400-90 100.10" "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.	
2	2/4/21	Retaining Wall Station & Offsets		
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4	3/11/21	RFI 12		
5	3/11/21	Revised Line 400		
6	4/8/21	Utility Updates		
7	5/25/21	Paver Revision		
8	6/15/21	Grading Updates		
9	6/24/21	Wiring Diagram Updates		
10	9/30/21	RFI 15-Irrigation Sleeves		
11	9/30/22	Record Drawings		
12	4/7/23	Record Drawings		



The information provided on this drawing conforms to construction records. It is not intended for construction, implementation or recording purposes, and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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913.492.0400
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DATE:	6-25-2020	
DESIGN BY:	CEL	
DRAWN BY:	DRV	
PROJECT NO.:	12720	
SHEET	1024s	
38	104	

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- | | | | |
|----|---------|----------------------------------|---|
| 1 | 1/27/21 | Revised Structure Size | As-Built: " 400.00 100.10", " +0.00 1.15% slope", or "8-inch HDPE PVC pipe" are all |
| 2 | 2/4/21 | Retaining Wall Station & Offsets | typical examples of revisions that indicate that |
| 3 | 2/26/21 | RFI 11 | design data has been replaced with "as-built" |
| 4 | 3/11/21 | RFI 12 | information. All other data is as designed and |
| 5 | 3/11/21 | Revised Line 400 | has not been field verified. |
| 6 | 4/8/21 | Utility Updates | |
| 7 | 5/25/21 | Paver Revision | |
| 8 | 6/15/21 | Grading Updates | |
| 9 | 6/24/21 | Wiring Diagram Updates | |
| 10 | 9/30/21 | RFI 15—Irrigation Sleeves | |
| 11 | 9/30/22 | Record Drawings | |
| 12 | 4/7/23 | Record Drawings | |

	Section A-A	Section B-B		Section C-C
Ramp ID	Ramp Extension (FT)	Ramp Width (FT)	Sidewalk Curb	Ramp Opening (FT)
1	0	10	Yes	10
2	N/A	10	Yes	10
3	N/A	10	Yes	11.5
4	0	10	Yes	10
5	1	10	Yes	12.67
6	1	10	Yes	12.67
7	0	10	Yes	10
8	N/A	10	Yes	10
9	N/A	10	Yes	10
10	0	10	Yes	10
11	1	6	Yes	8.33
12	1	6	Yes	8.33
13	0	10	Yes	10
14	N/A	10	Yes	10
15	N/A	10	Yes	10.5
16	0	10	Yes	10

Note: Ramp ID shown on sheet 21.

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2100.dwg Layout: 39 Construction Details Thursday April 06, 2023, 3:43pm Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

GBA

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engineers

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO.

TOTAL SHEETS

39

104

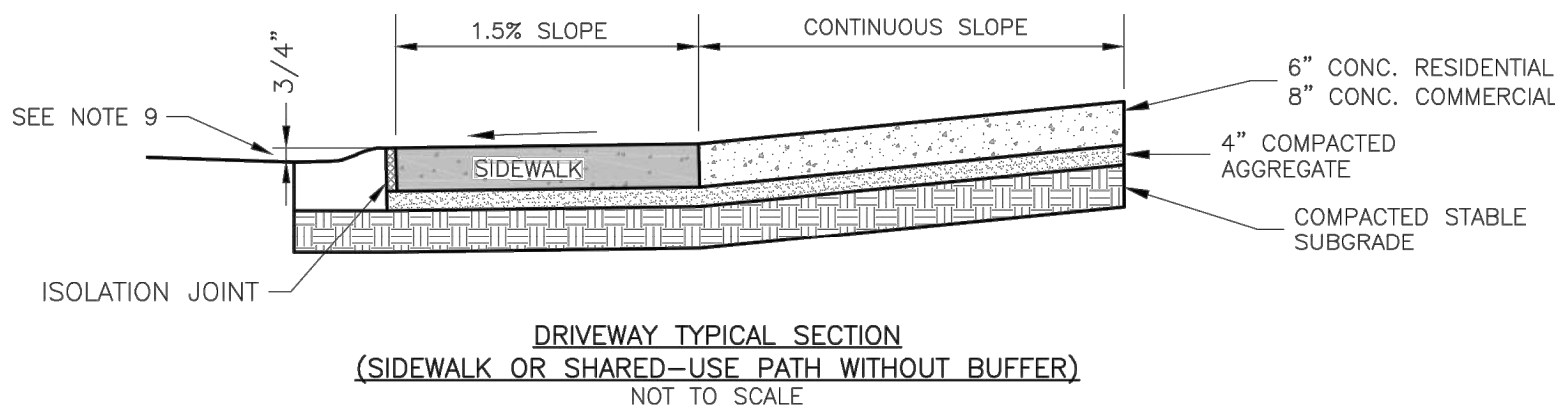
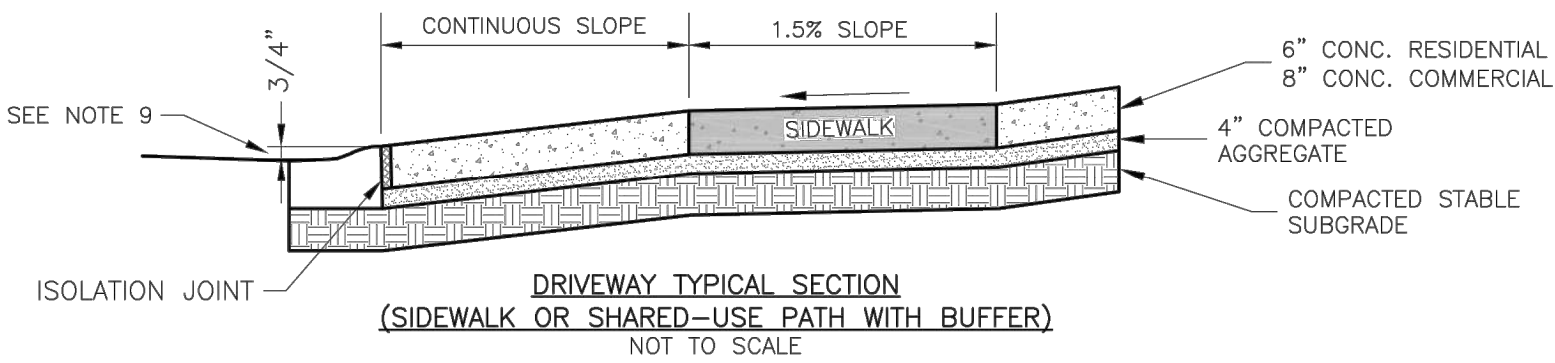
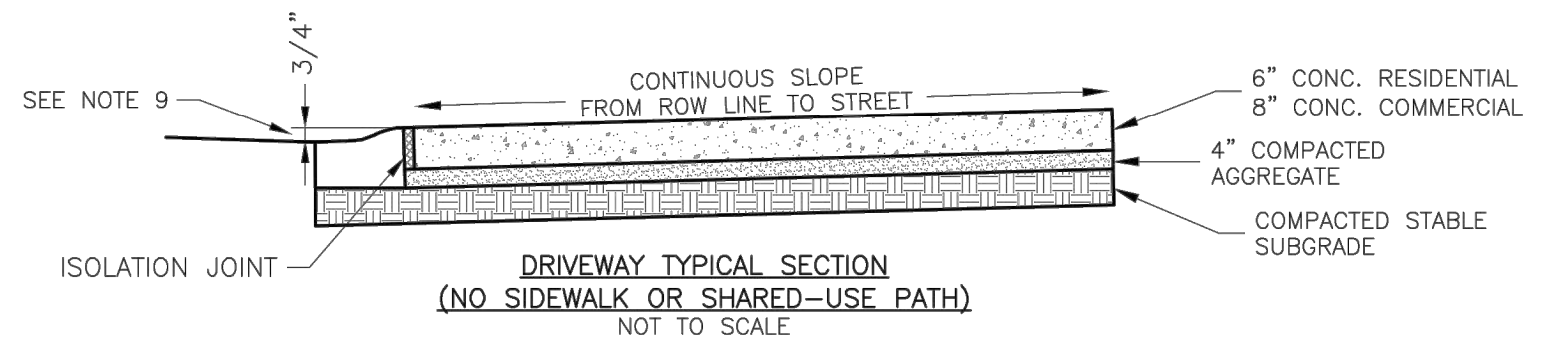
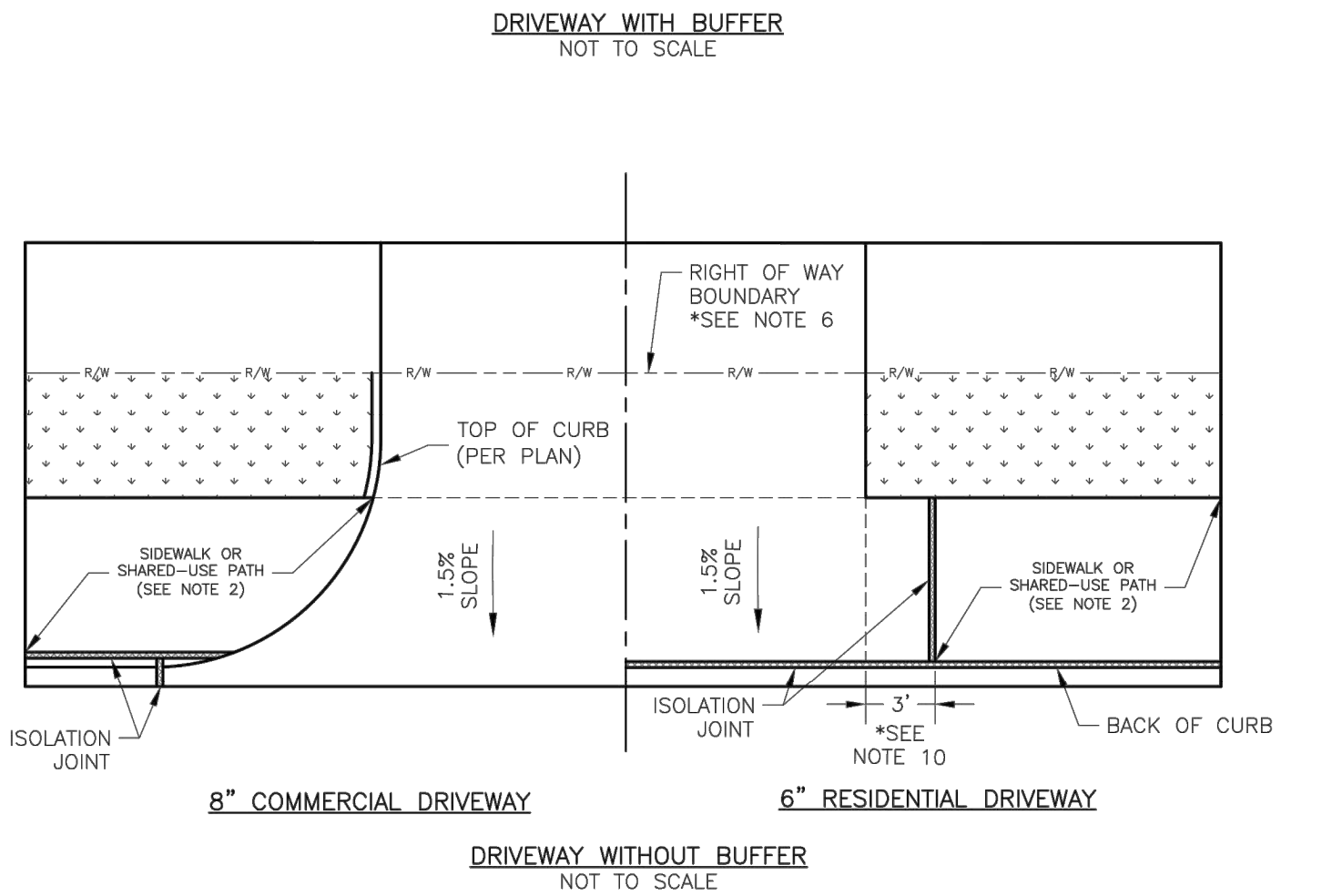
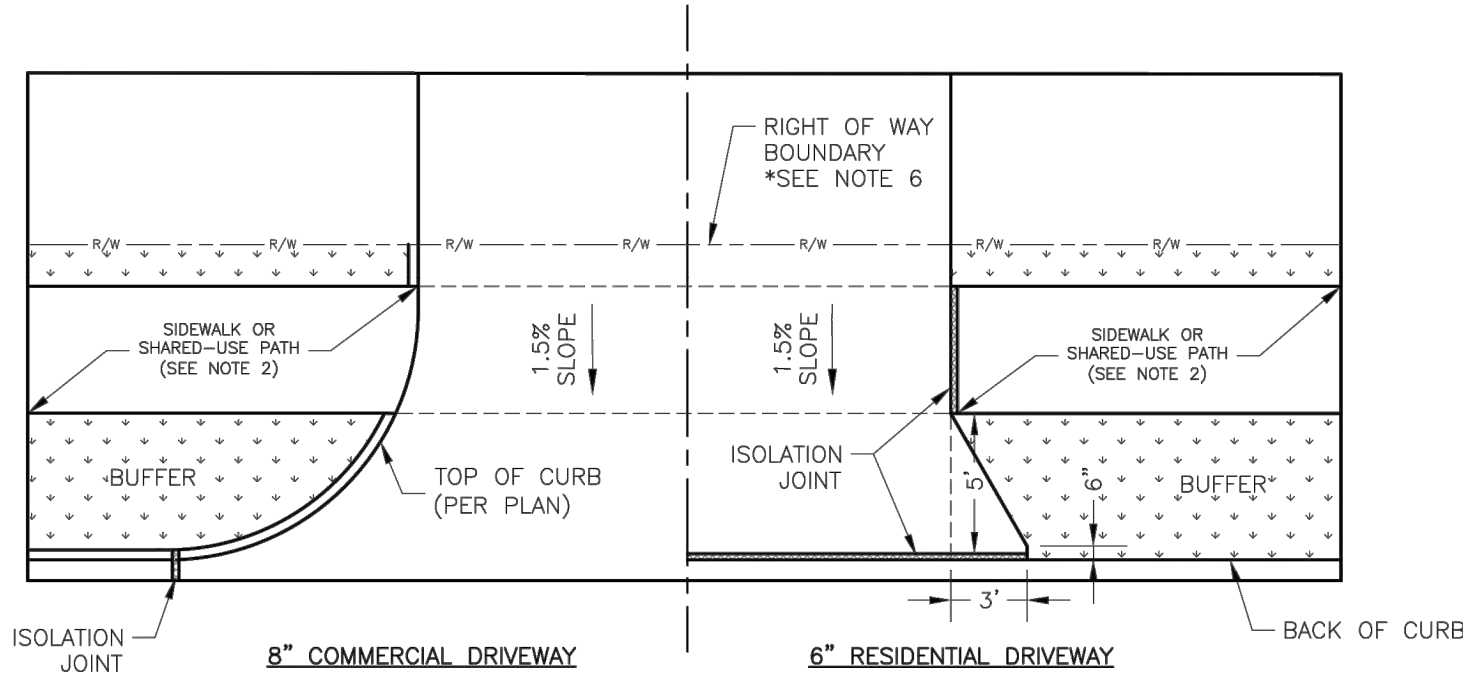
RECORD DRAWING

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15-Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



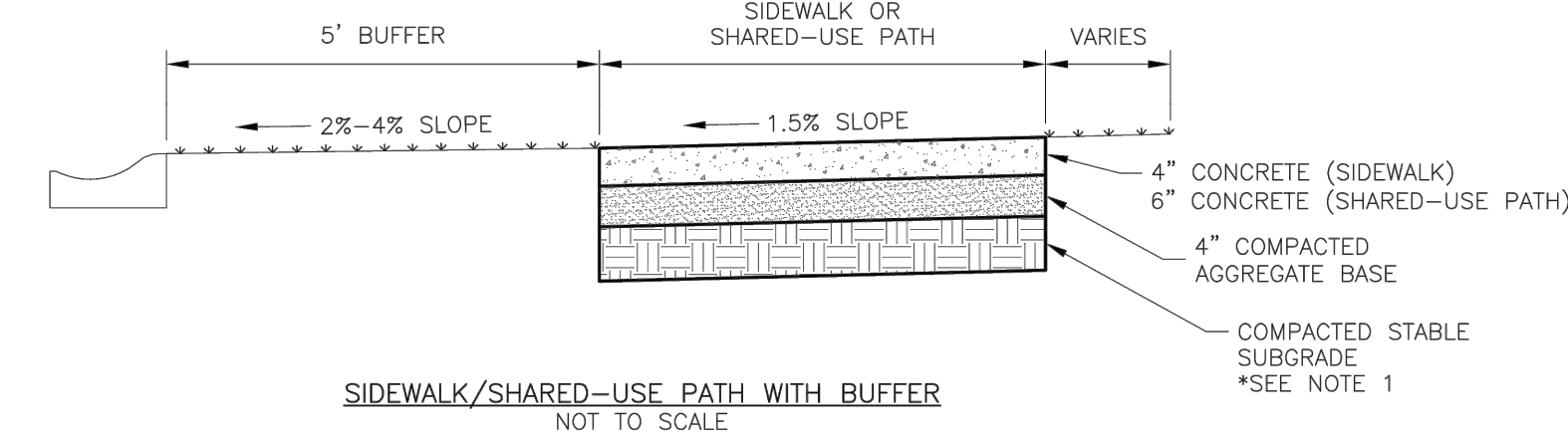
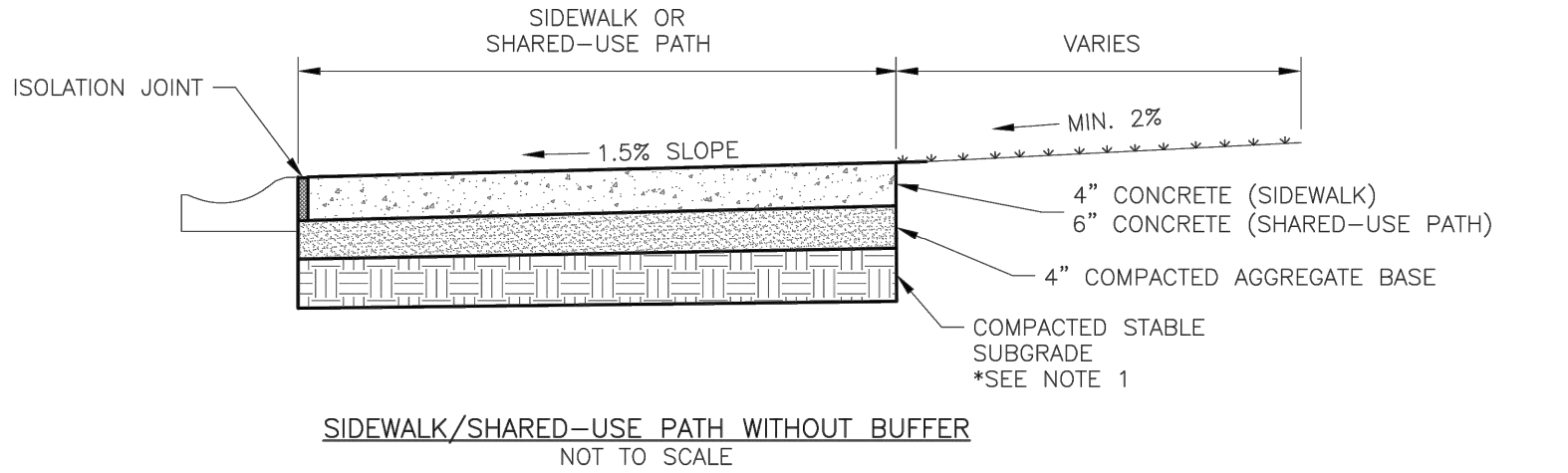
- GENERAL NOTES**
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
 - JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
 - KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
 - COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
 - RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEEDS TO BE APPROVED BY CITY INSPECTOR.
 - A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
 - 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
 - SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
 - THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.

LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
SHEET NAME: R

Drawn By: MJF
Checked By: DL
Date: 04/17
Project:

GEN-1



- GENERAL NOTES:**
- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
 - KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS OR AS APPROVED BY THE CITY INSPECTOR.
 - ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
 - AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
 - AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
 - SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
 - SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.



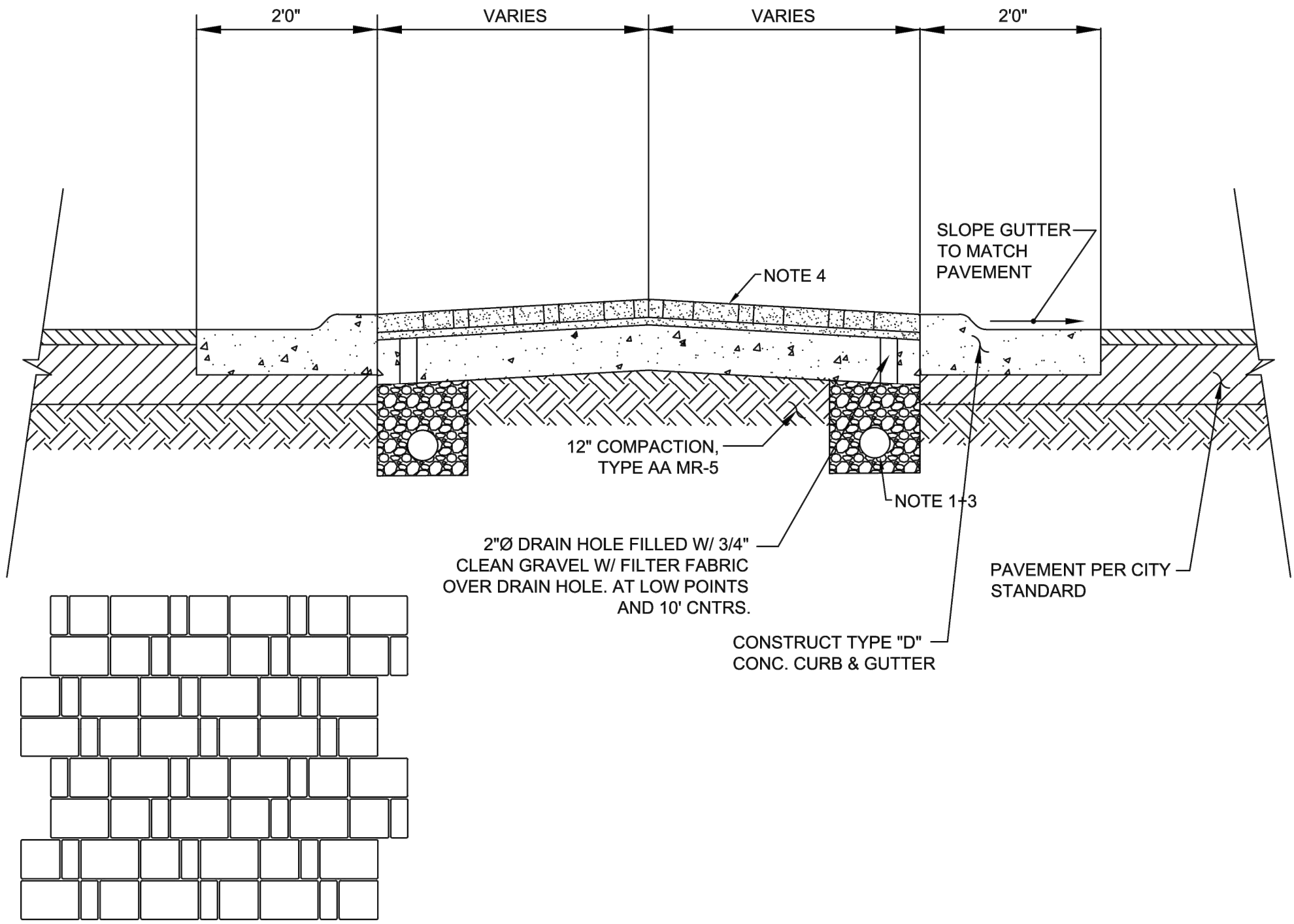
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SIDEWALK/SHARED-USE PATH DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

GEN-2

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2100.dwg Layout: 40 Construction Details -- Thursday April 06, 2023, 3:43pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



++ PAVING PATTERN
NO SCALE

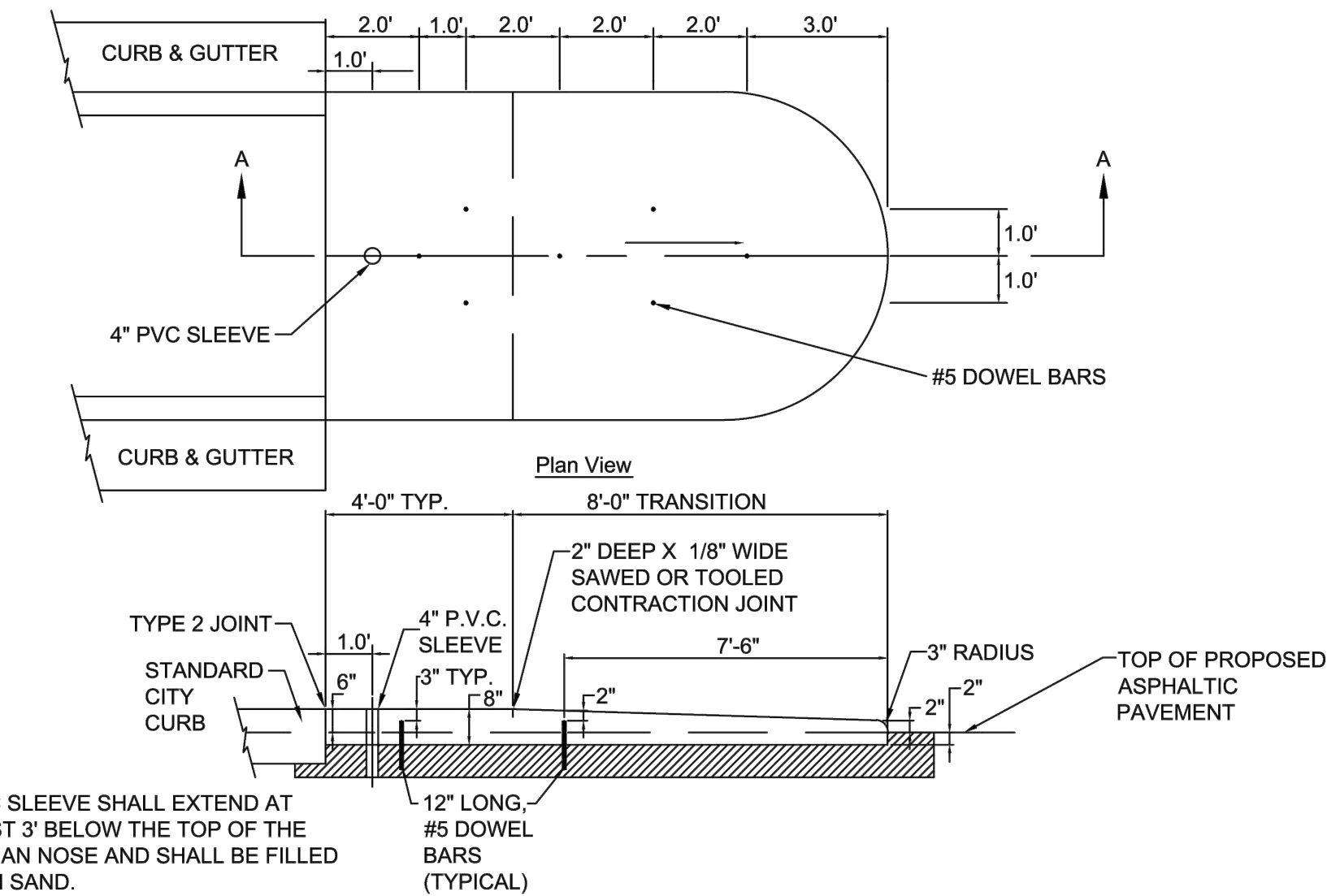
MOUNTABLE MEDIAN PAVER DETAIL

NOTES:

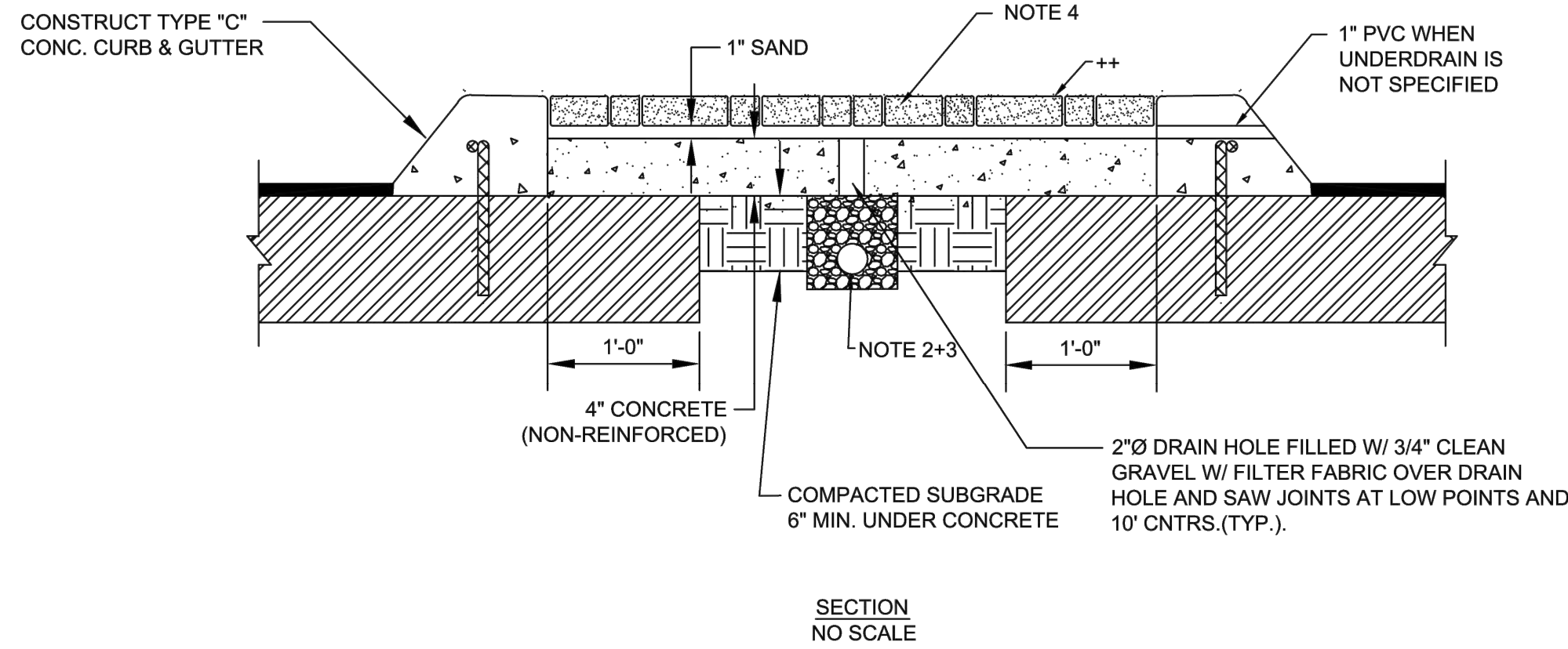
1. UNDERDRAIN SHALL BE INSTALLED AROUND THE PERIMETER OF THE MEDIAN AND CONNECTED TO THE STORM DRAIN SYSTEM.
2. UNDERDRAIN SHALL BE INSTALLED TO THE CENTER OF THE MEDIAN AND CONNECTED TO THE STORM DRAIN SYSTEM.

3. CONCRETE PAVERS, PAVESTONE "COBBLE STONE" OR EQUAL
4-9/16"x2-1/8"x3/8"
4-9/16"x4-9/16"x2-3/8"
4-9/16"x6-13/16"x2-3/8"

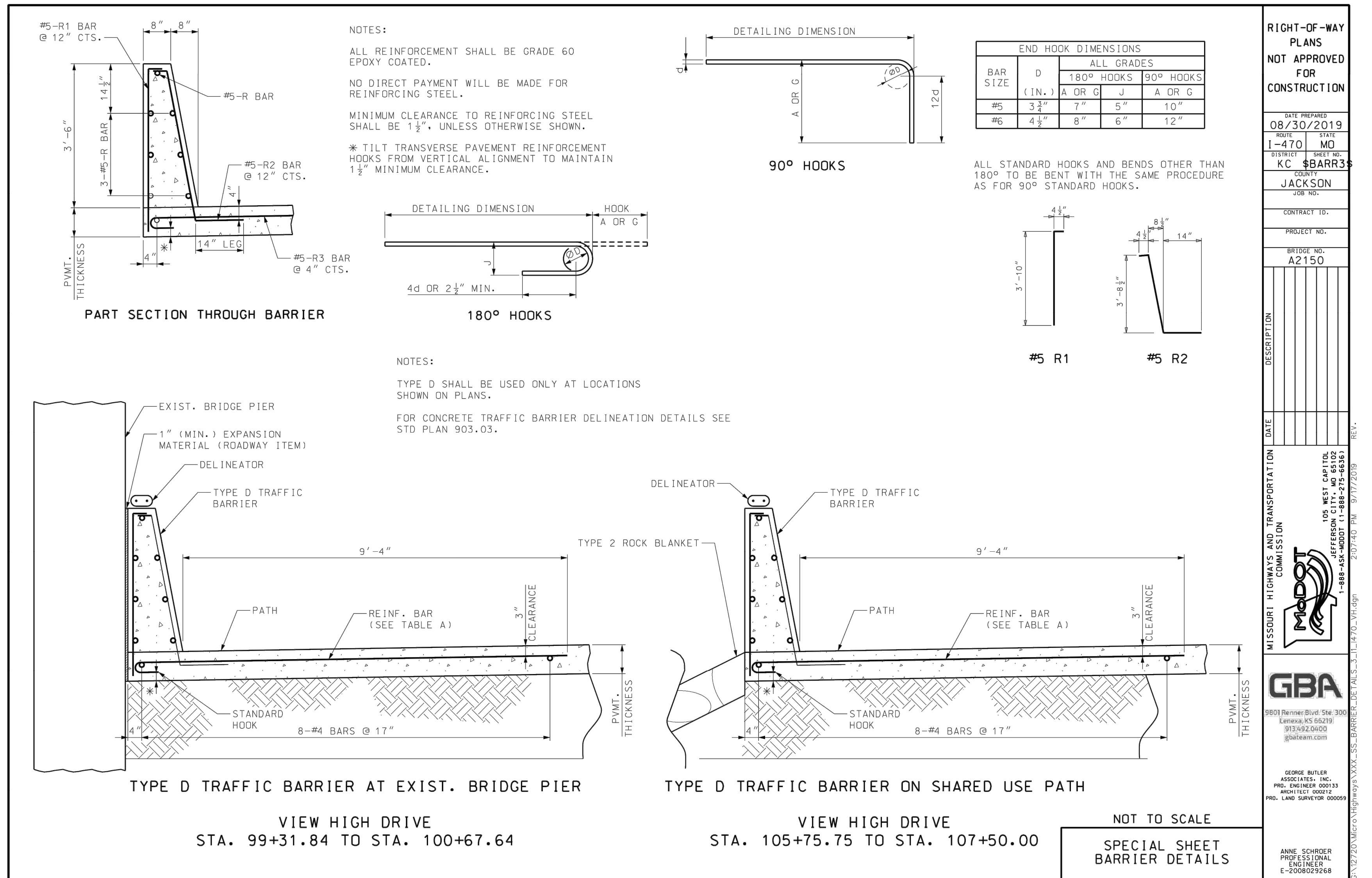
PAVER COLOR
VARIABLE. CONTACT ENGINEERING



MEDIAN NOSE DETAIL



MEDIAN PAVER DETAIL





C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2500.dwg Layout: 42 View High Drive Cross Sections -- Thursday April 06, 2023, 3:43pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

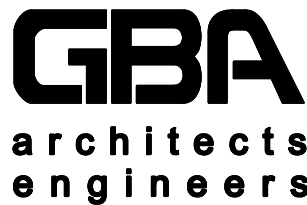
Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING



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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
42	104

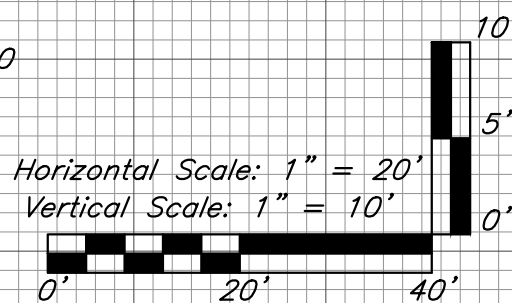
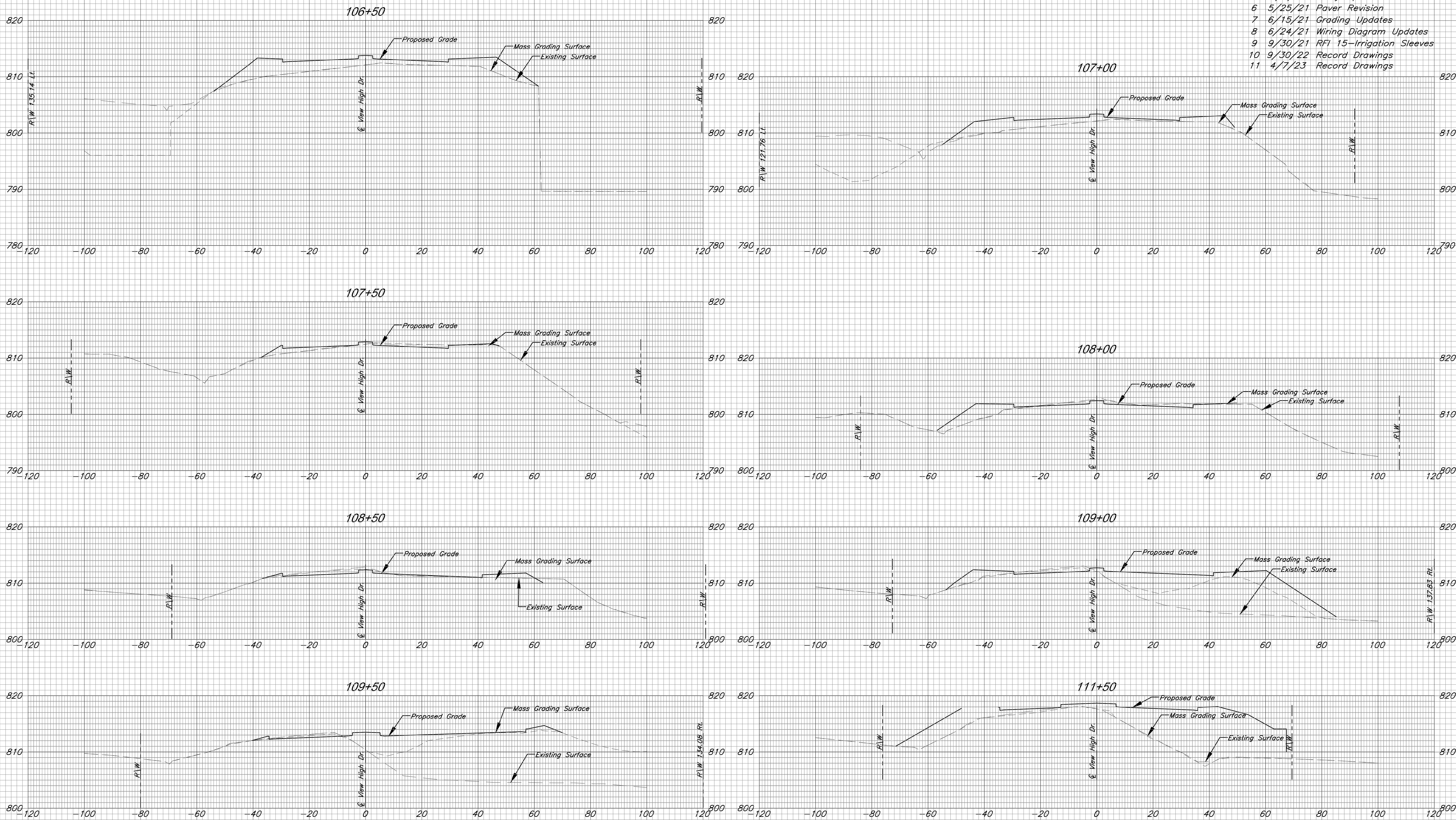
Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "4-00" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Drive Cross Sections

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2500.dwg Layout: 4.3 View High Drive Cross Sections -- Thursday April 06, 2023, 3:16pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO.

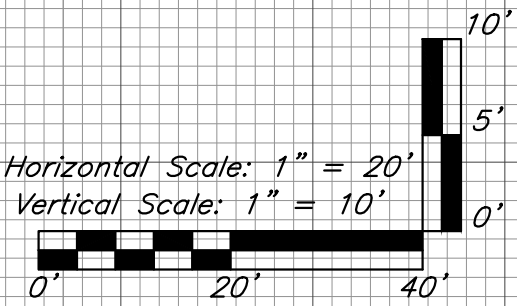
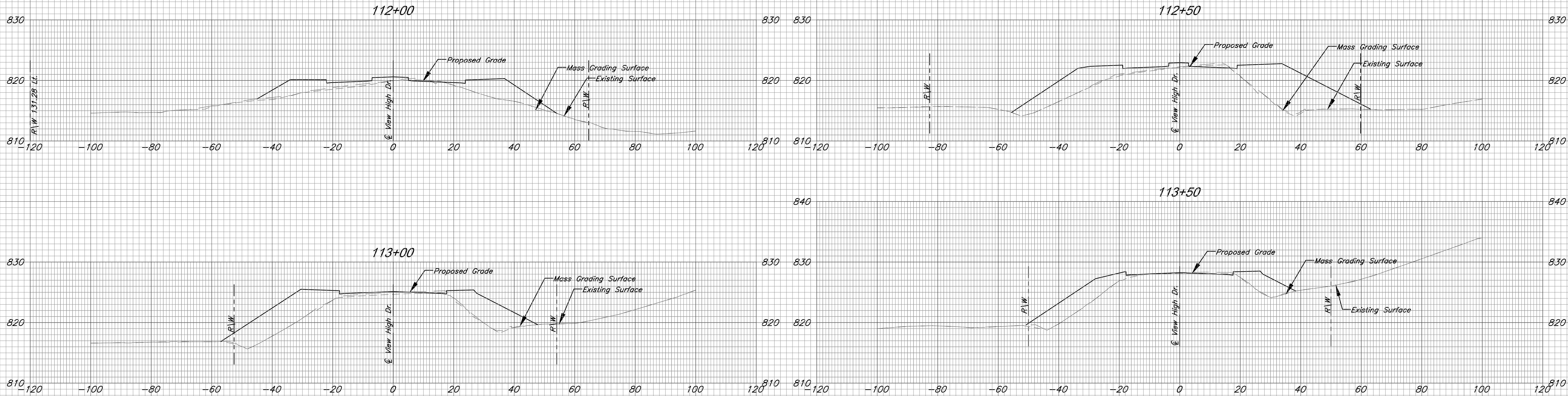
TOTAL SHEETS

43104

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Professional Engineer
License No. 25862

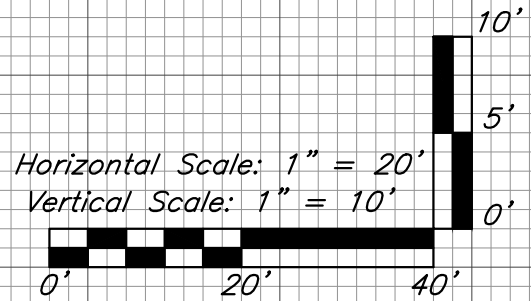
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS		BY	APPROVED
	9/2/20	City Comments			
	11/23/20	Utility Updates			
1	1/27/21	Revised Structure Size		As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch HDPPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.	
2	2/4/21	Retaining Wall Station & Offsets			
	2/26/21	RFI 11			
3	3/11/21	RFI 12			
4	3/11/21	Revised Line 400			
5	4/8/21	Utility Updates			
6	5/25/21	Paver Revision			
7	6/15/21	Grading Updates			
8	6/24/21	Wiring Diagram Updates			
9	9/30/21	RFI 15-Irrigation Sleeves			
10	9/30/22	Record Drawings			
11	4/7/23	Record Drawings			



View High Drive Cross Sections

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2501.dwg Layout: 44 View High Parkway Cross Sections -- Thursday April 06, 2023, 3:44pm -- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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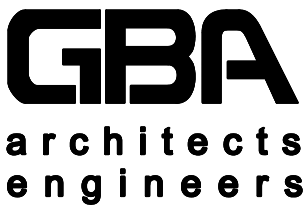
Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING



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DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
44	104

Street and Storm Sewer Plans

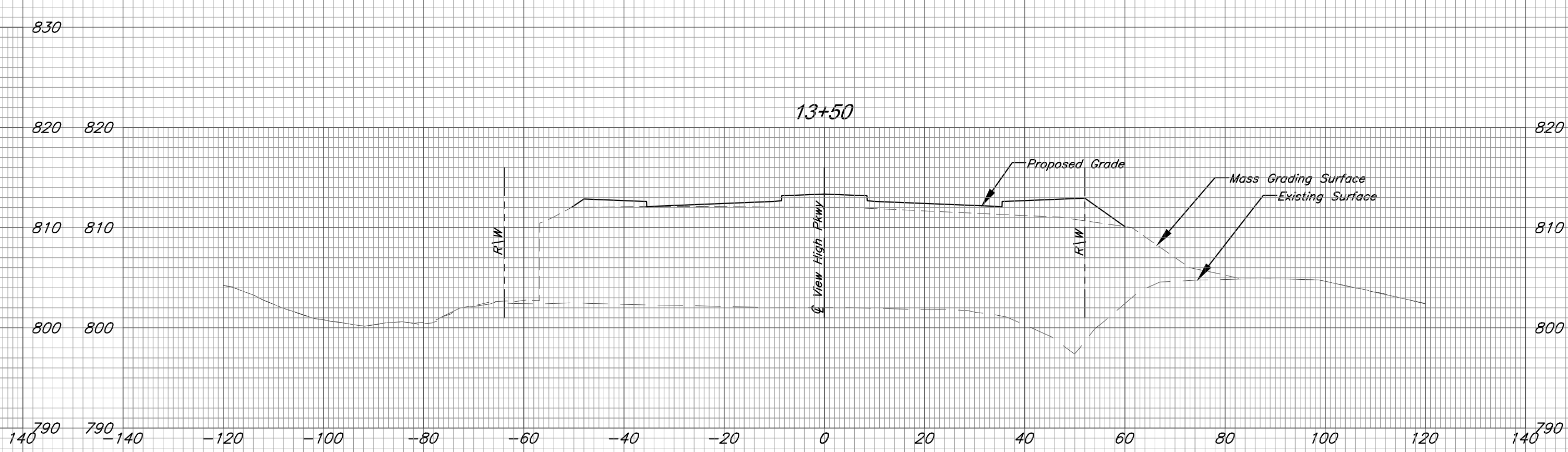
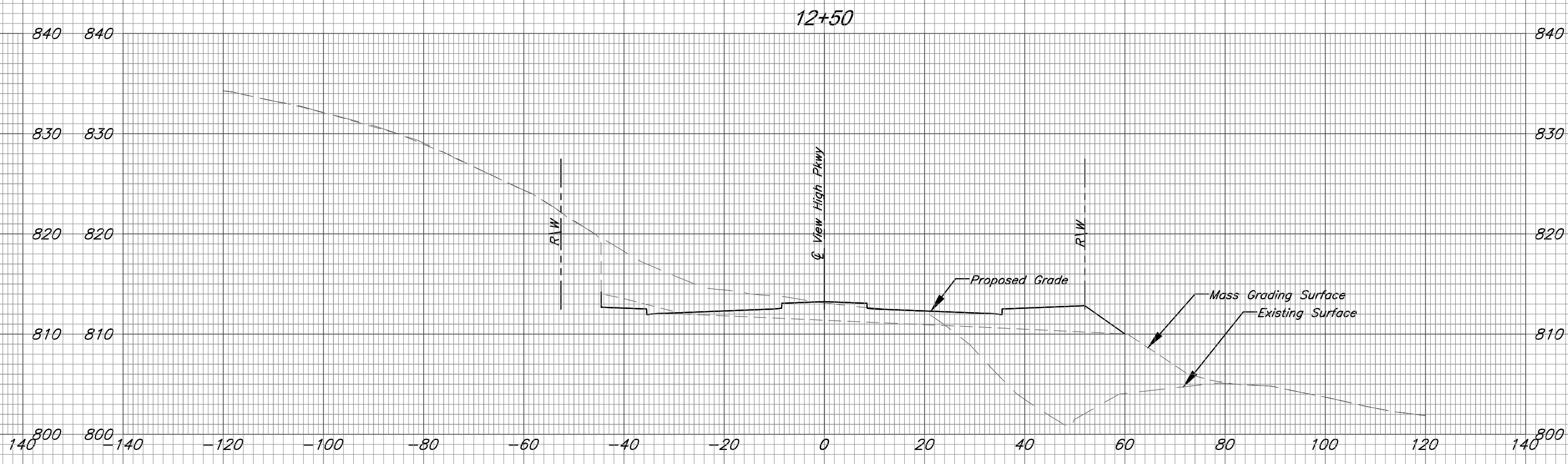
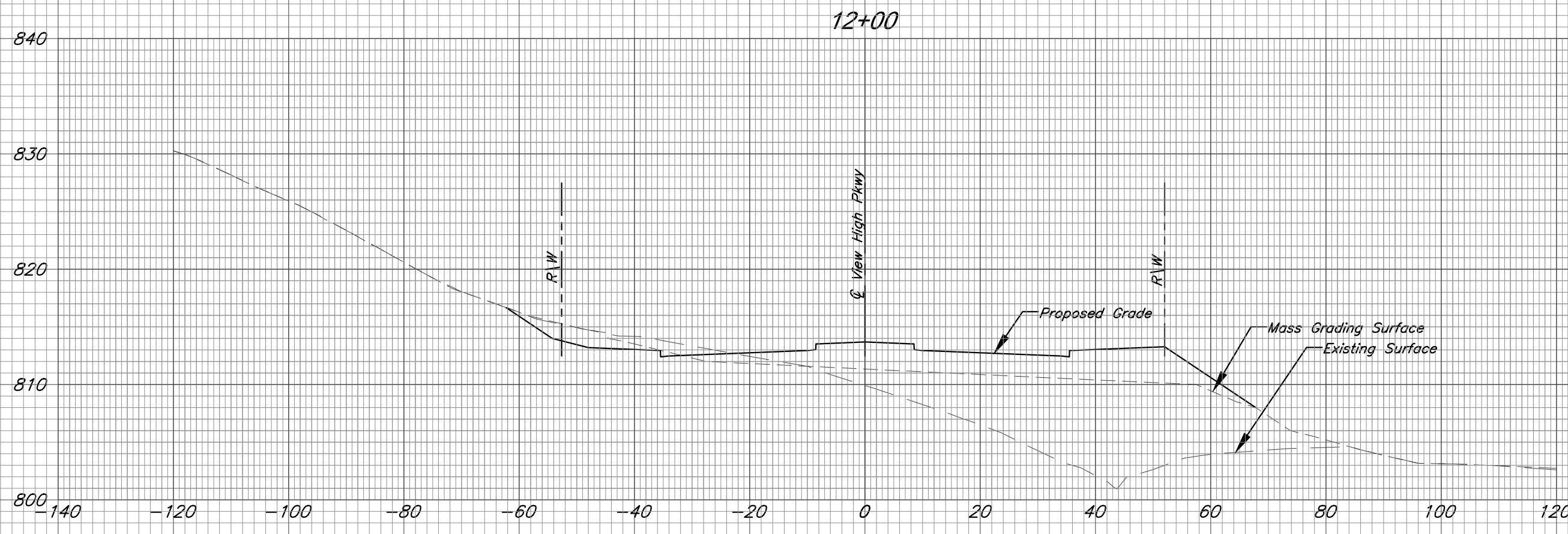
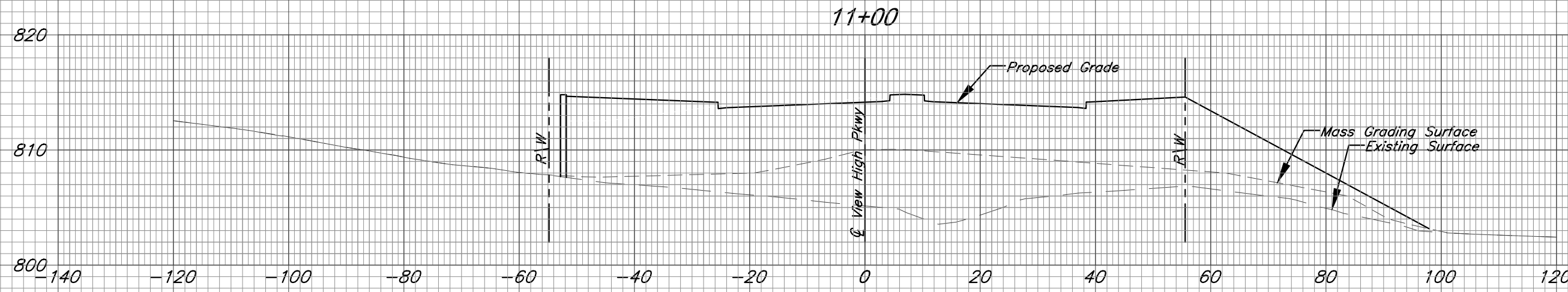
Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

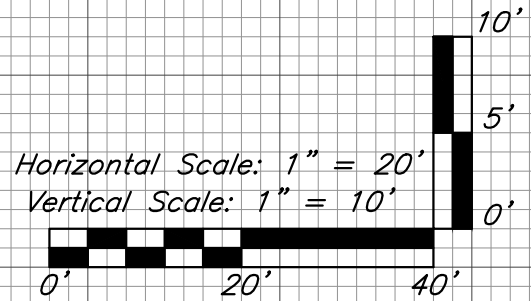
- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "As-Built" 100.10" "As-Built" 1.15% slope; or "As-Built" 8-inch HDPE PVC pipe are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



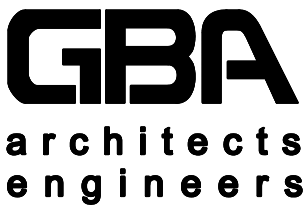
View High Parkway Cross Sections

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2501.dwg Layout: 45 View High Parkway Cross Sections -- Thursday April 06, 2023, 3:44pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA
RECORD DRAWING



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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

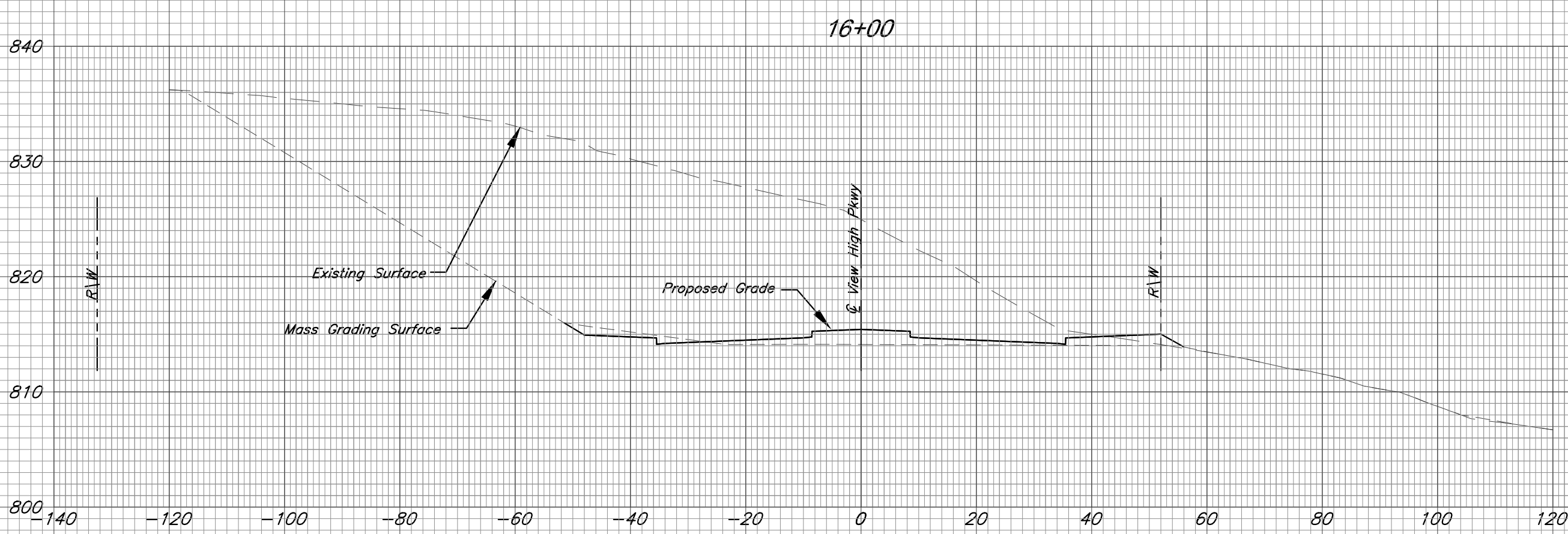
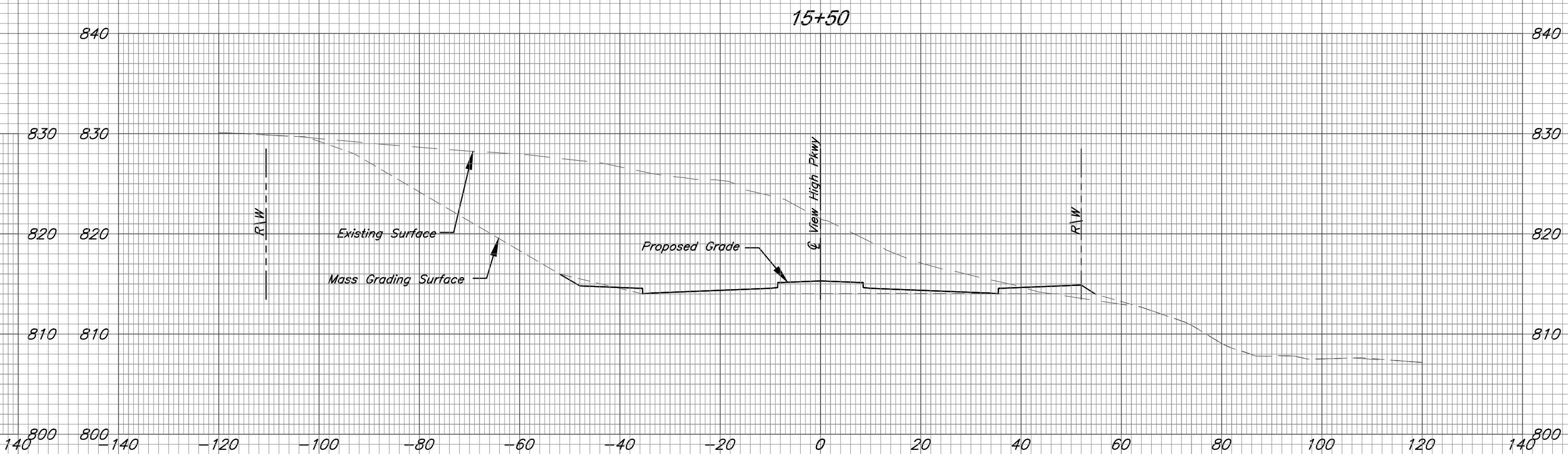
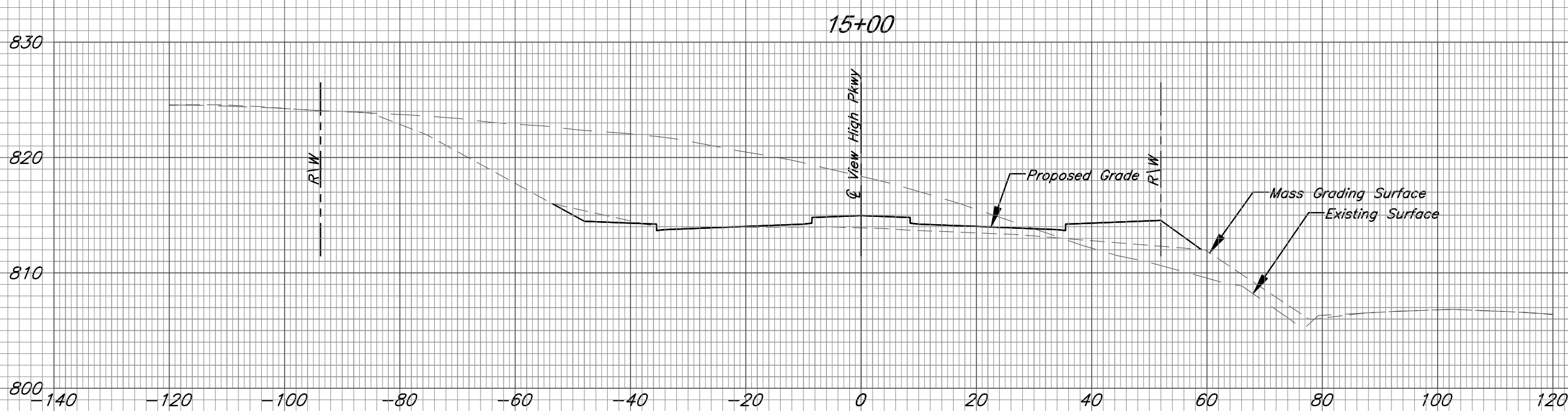
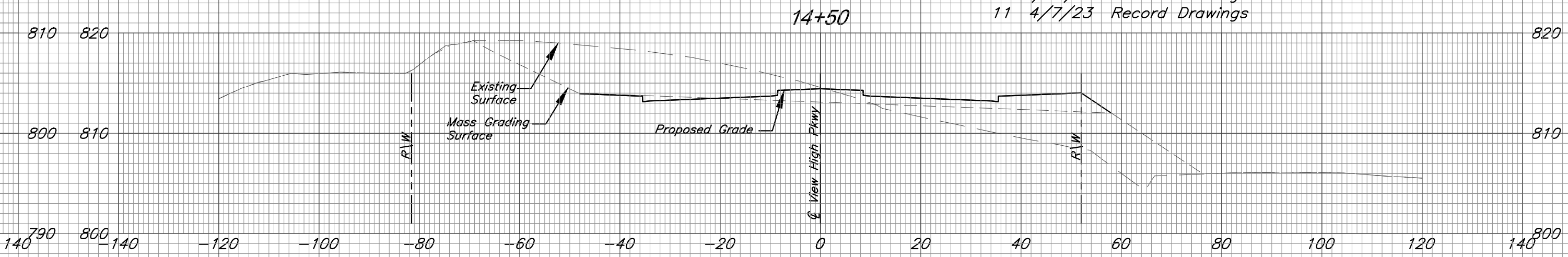
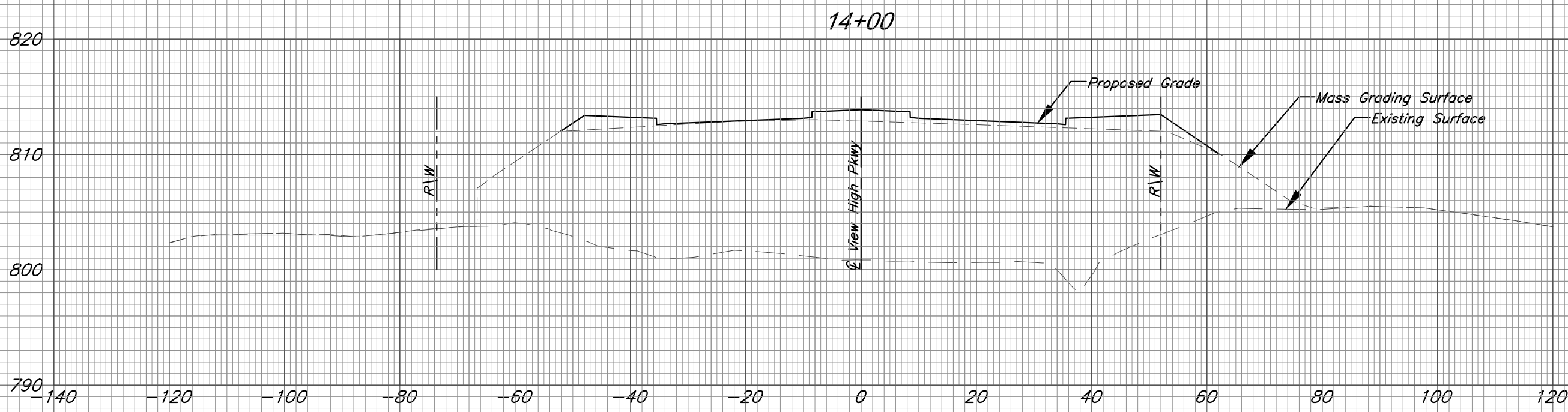
DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
45	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

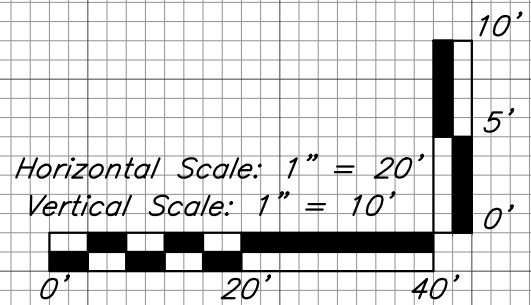
- 1/27/21 Revised Structure Size
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- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
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- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2501.dwg Layout: 46 View High Parkway Cross Sections -- Thursday April 06, 2023, 3:44pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA
RECORD DRAWING

GBA
architects
engineers

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Lenexa, Kansas 66219
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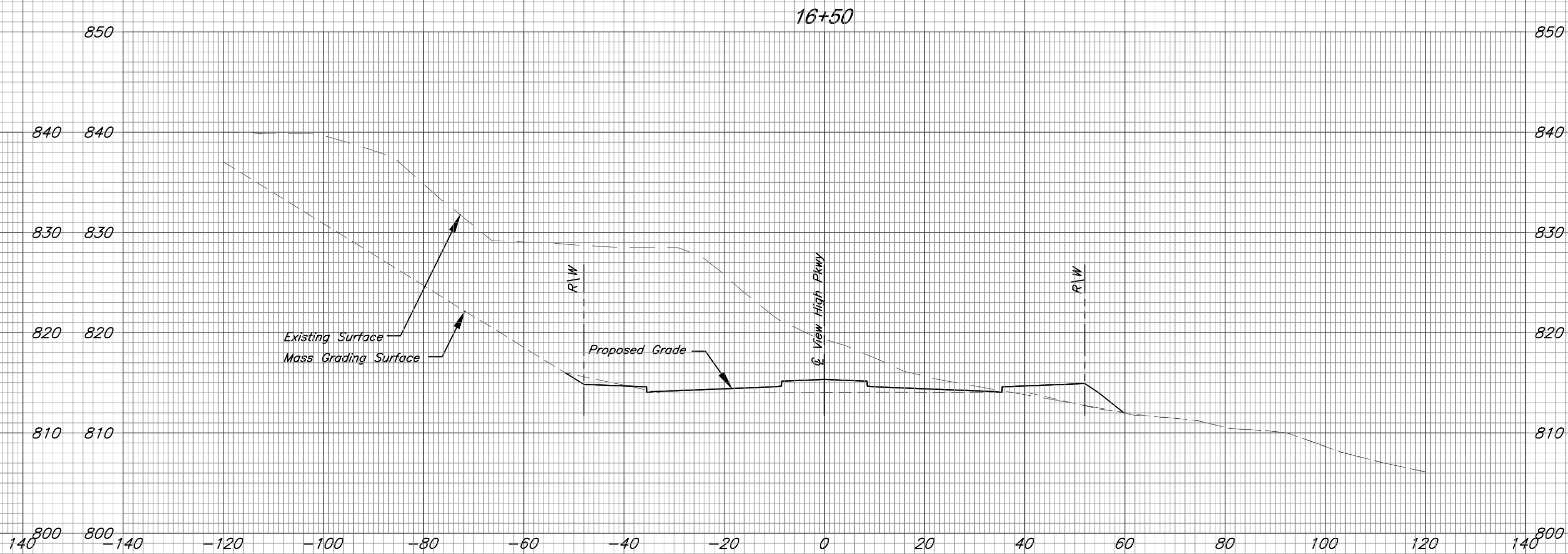
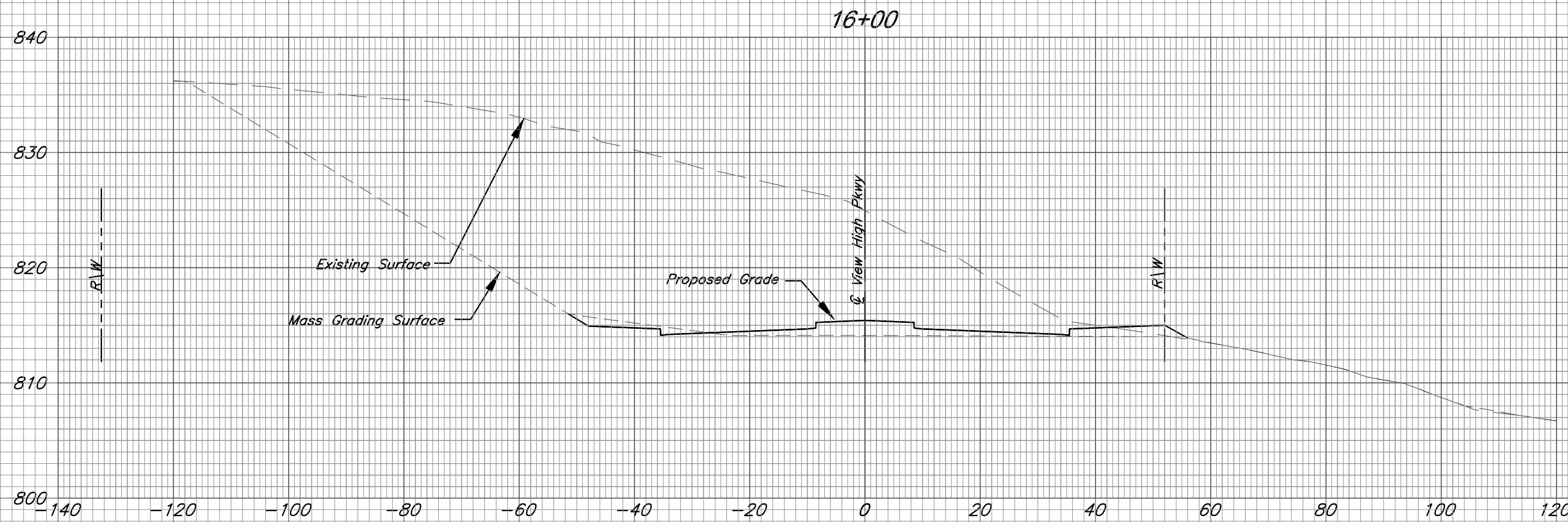
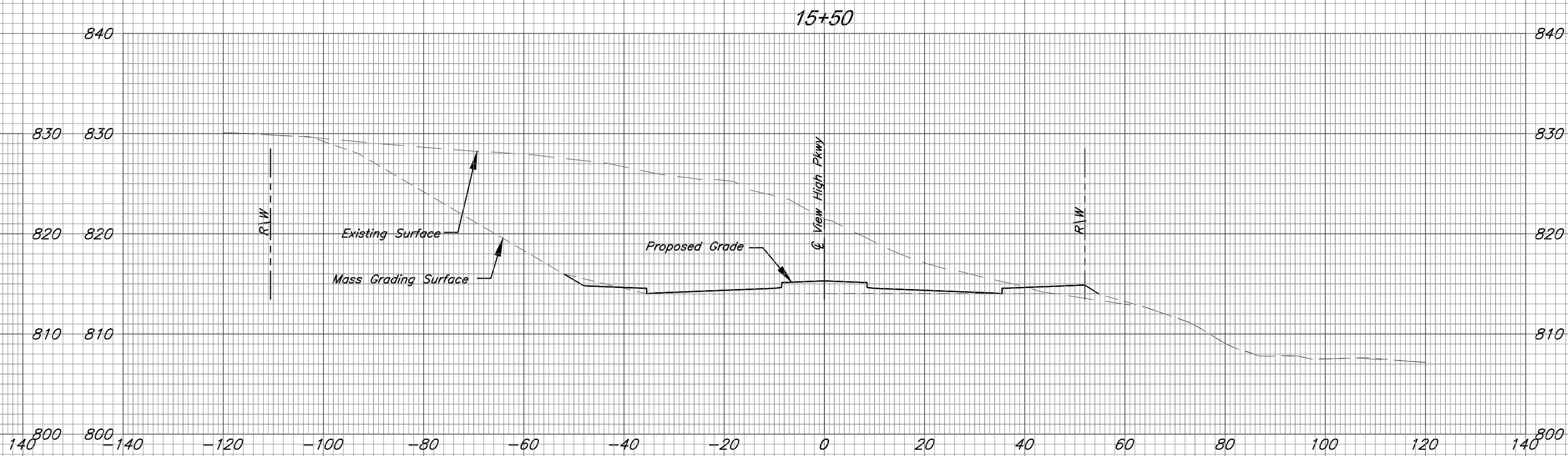
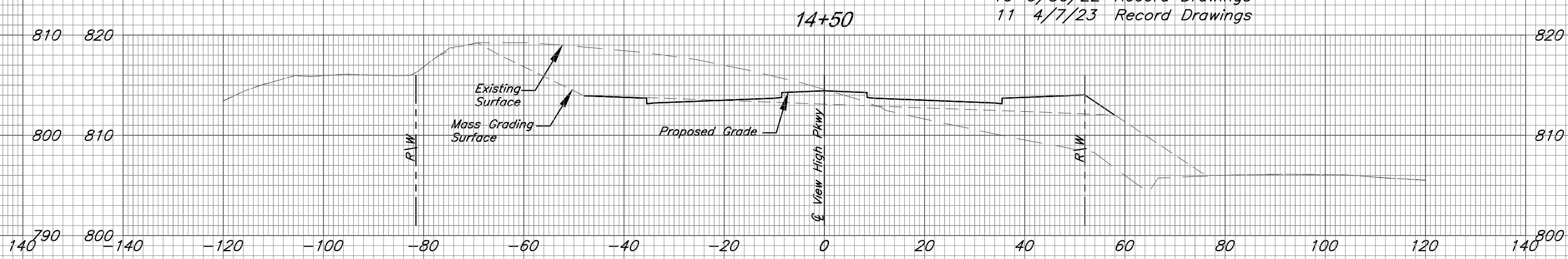
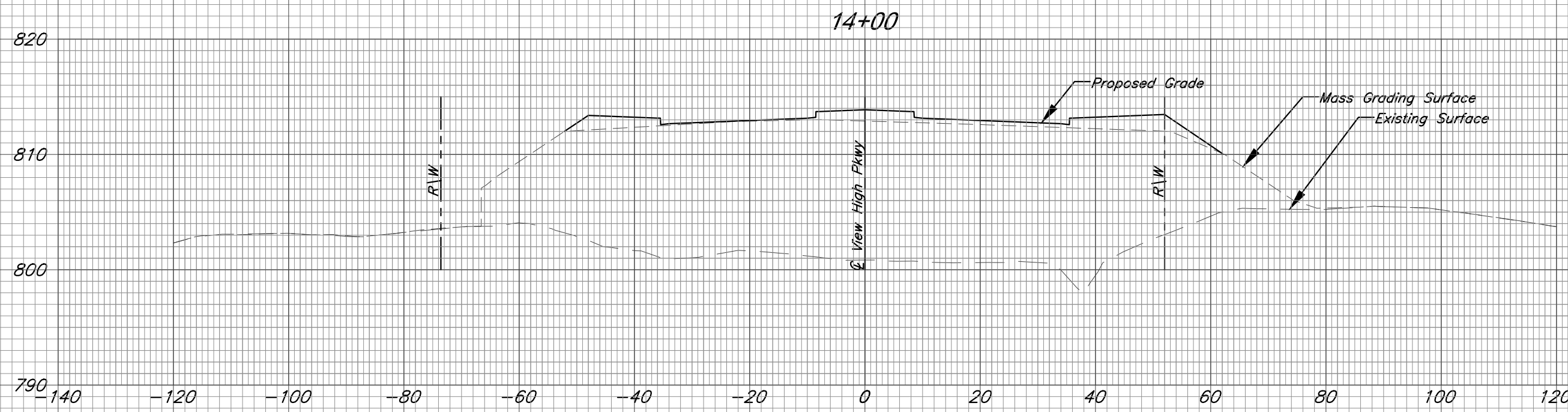
DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
46	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

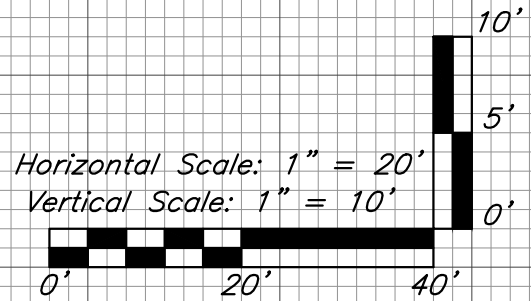
- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections

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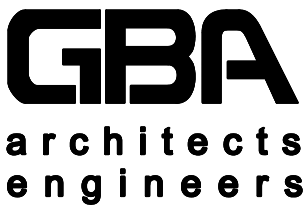
Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING



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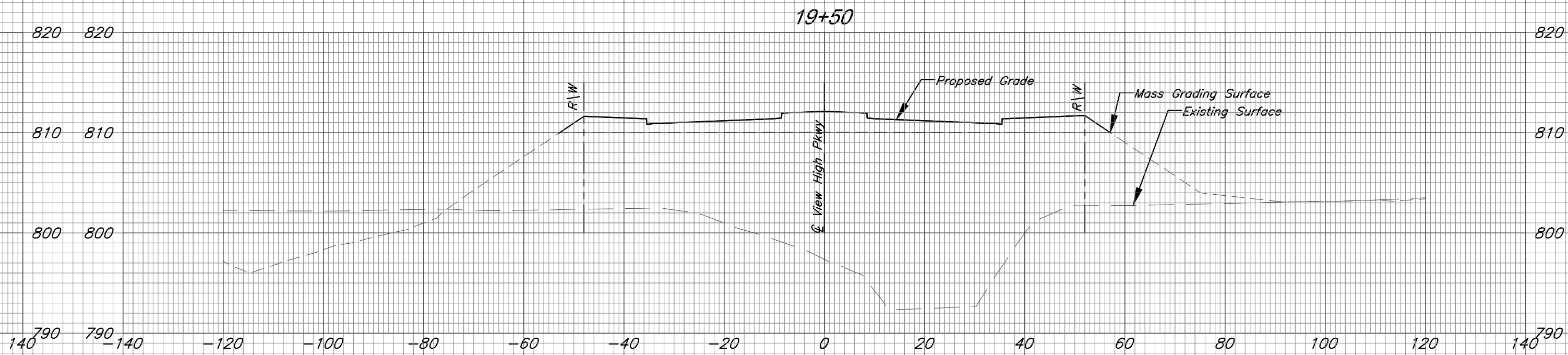
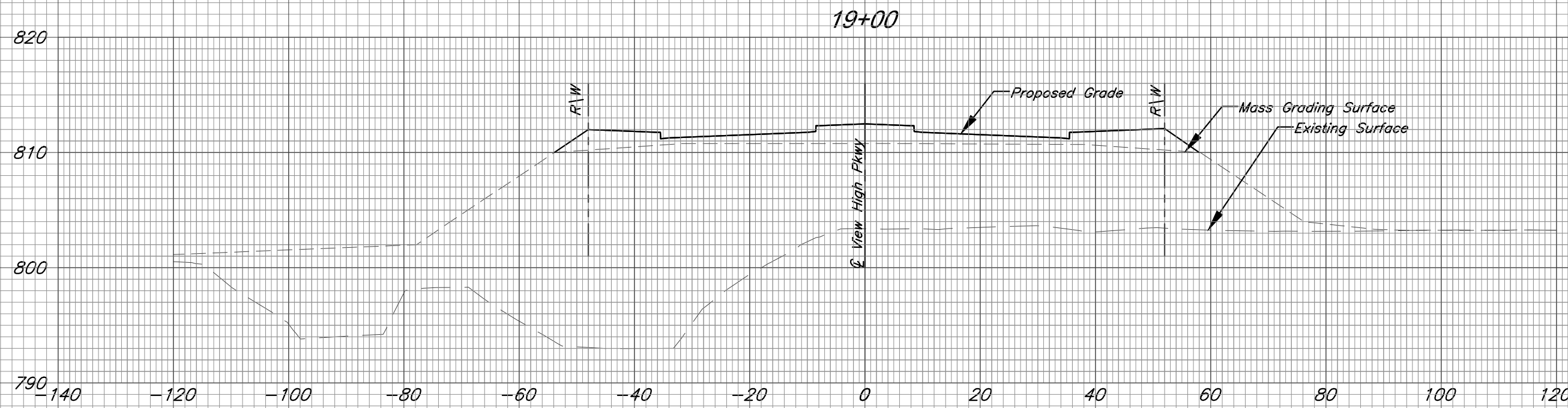
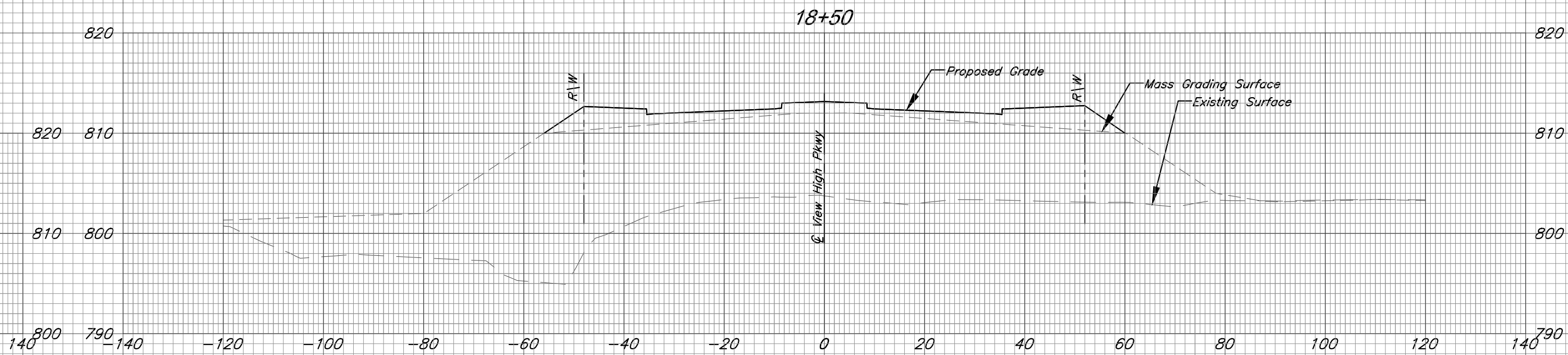
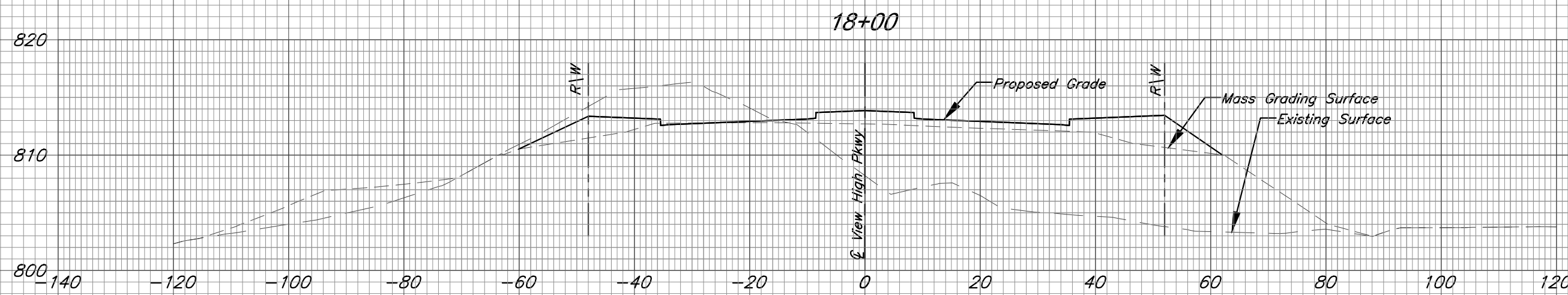
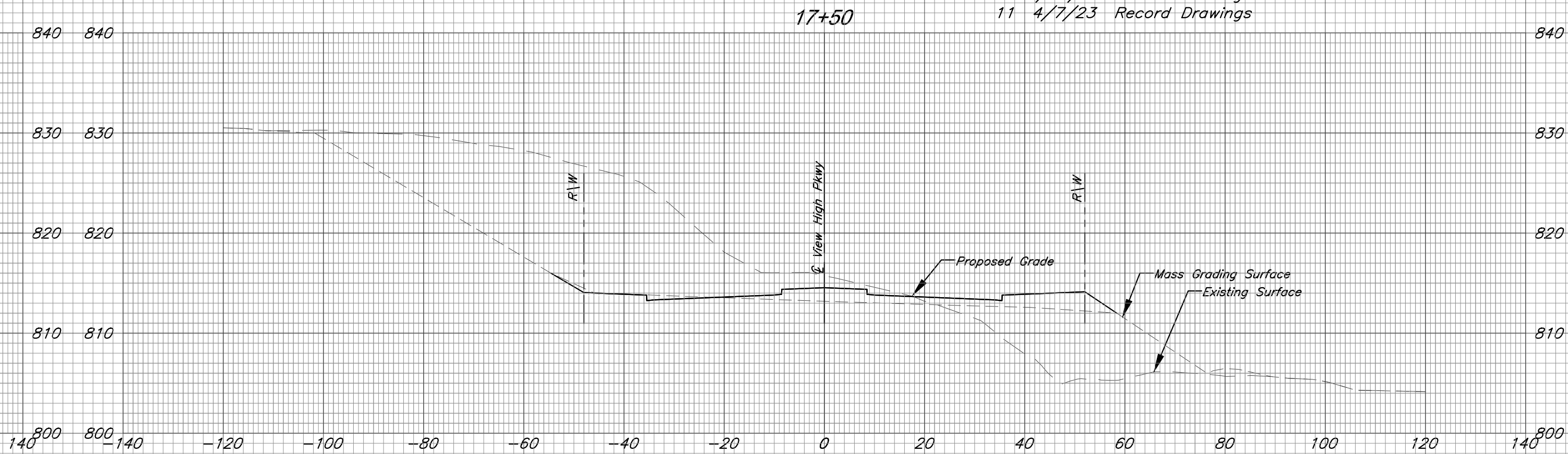
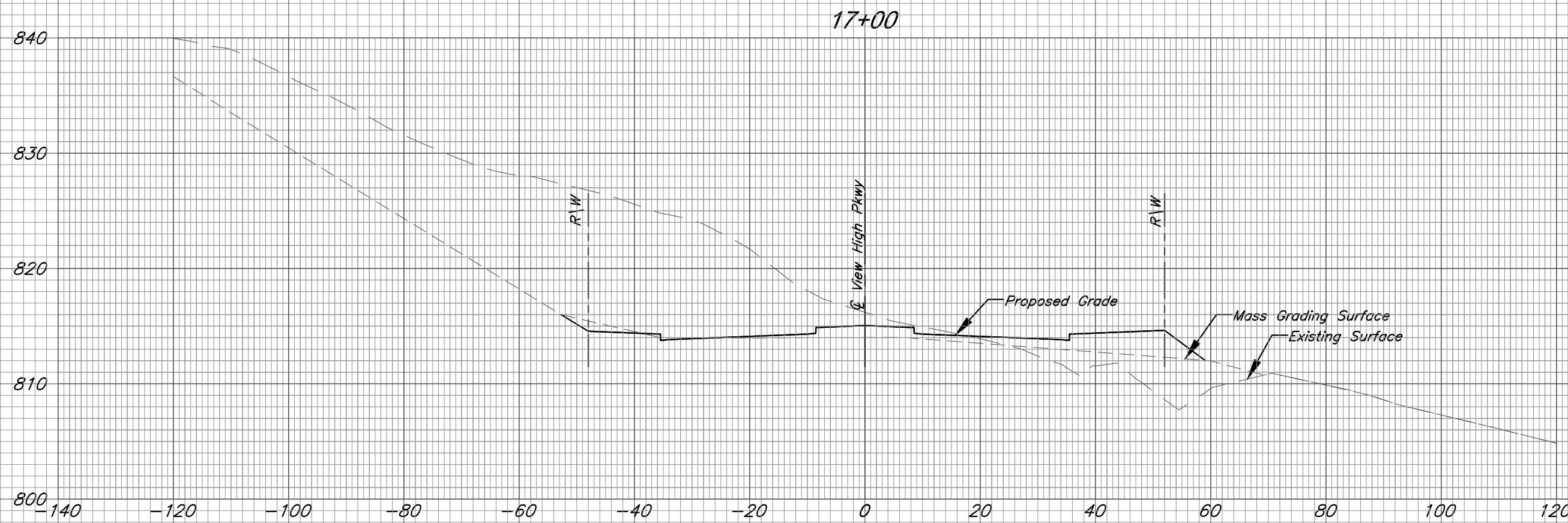
DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
47	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

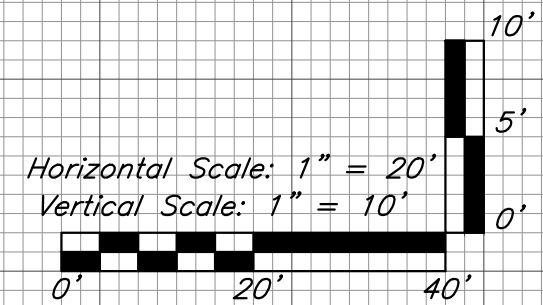
NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections



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Date: 4/7/23 

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

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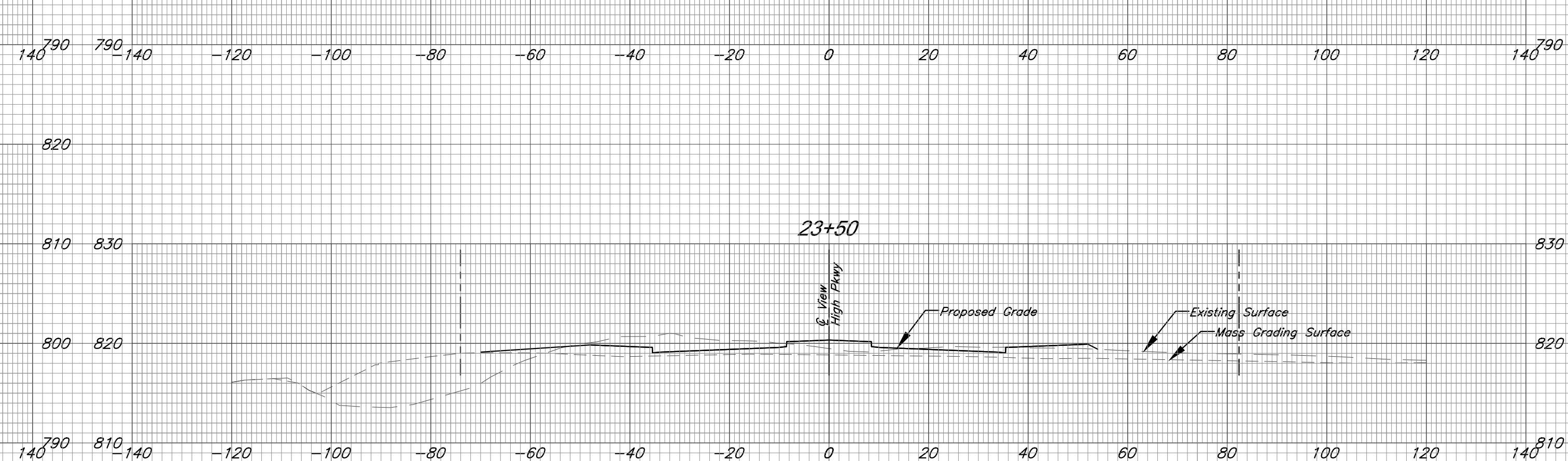
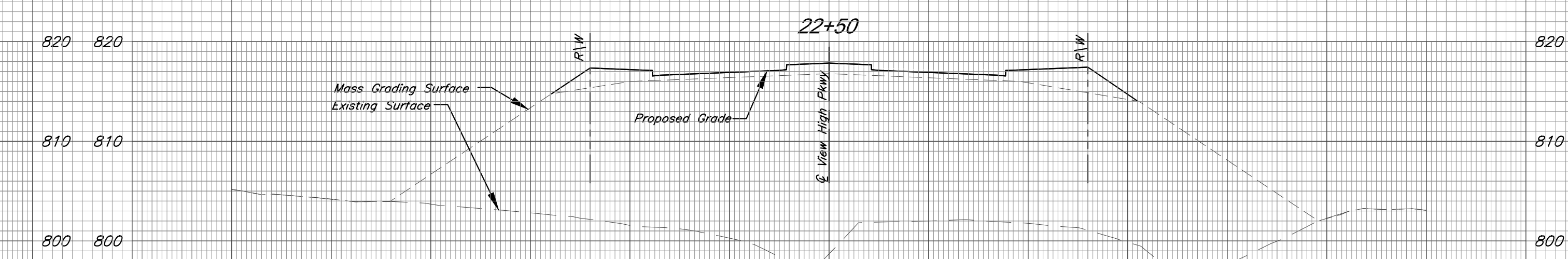
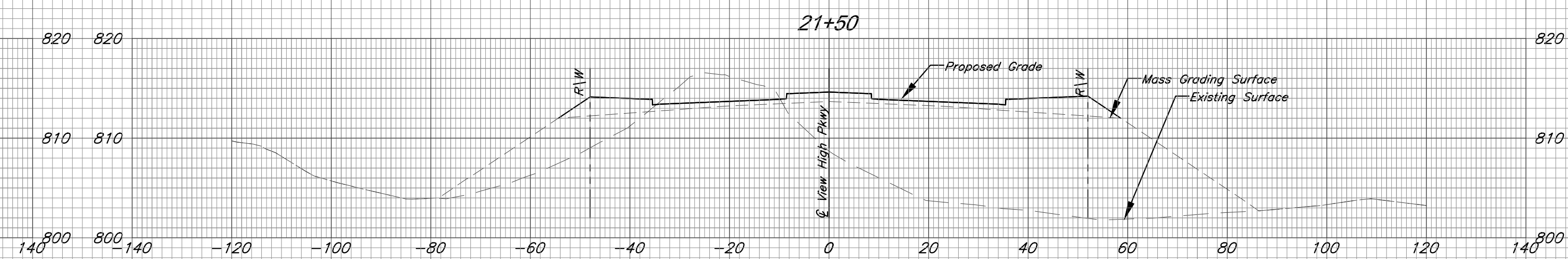
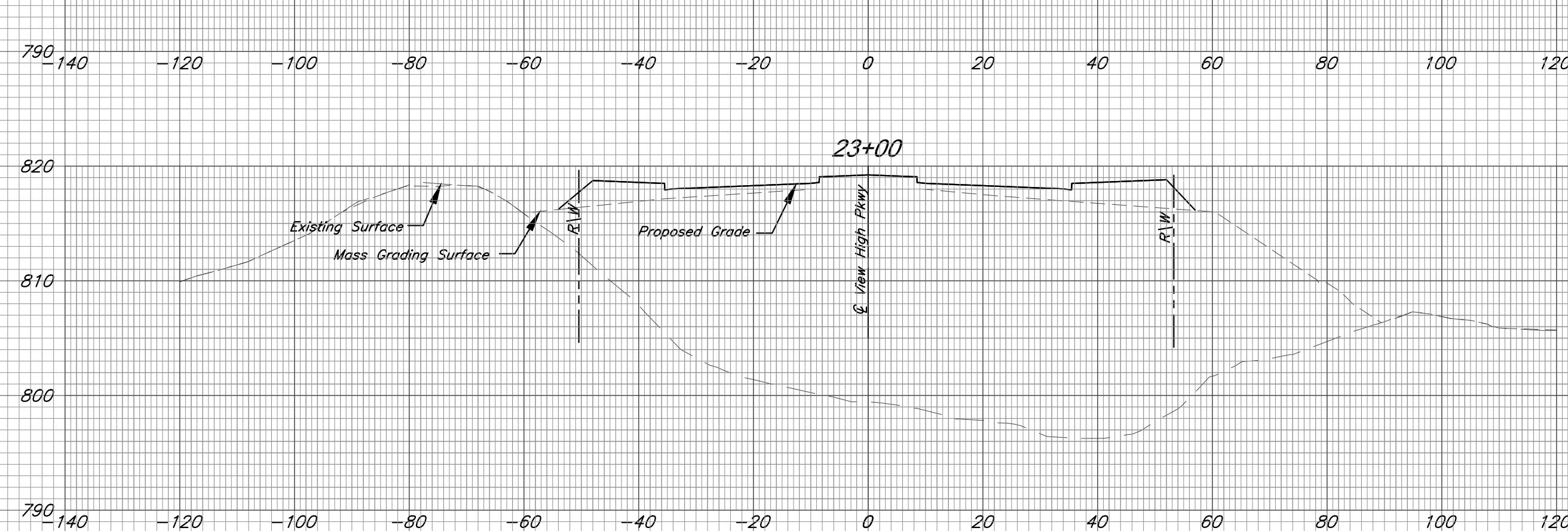
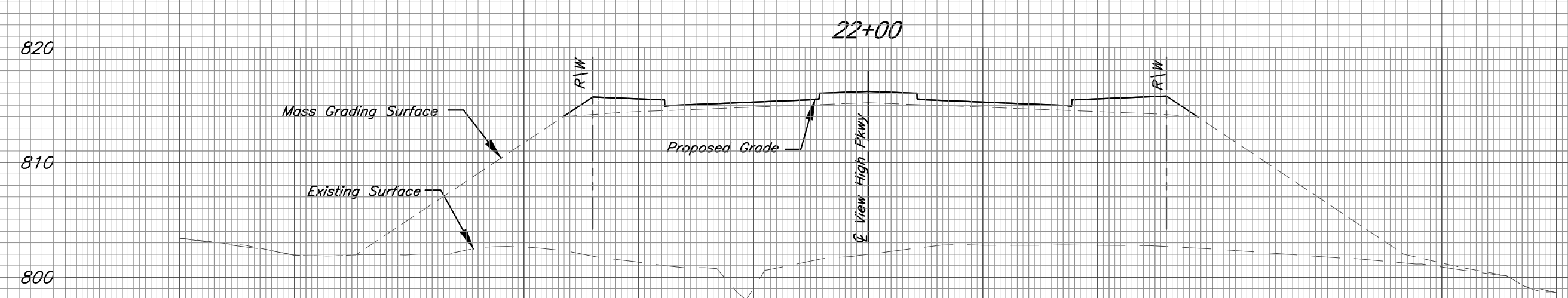
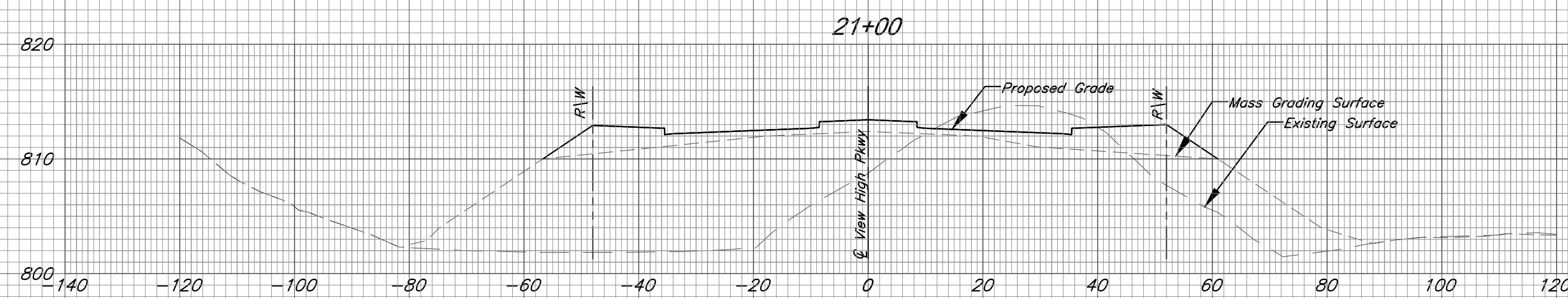
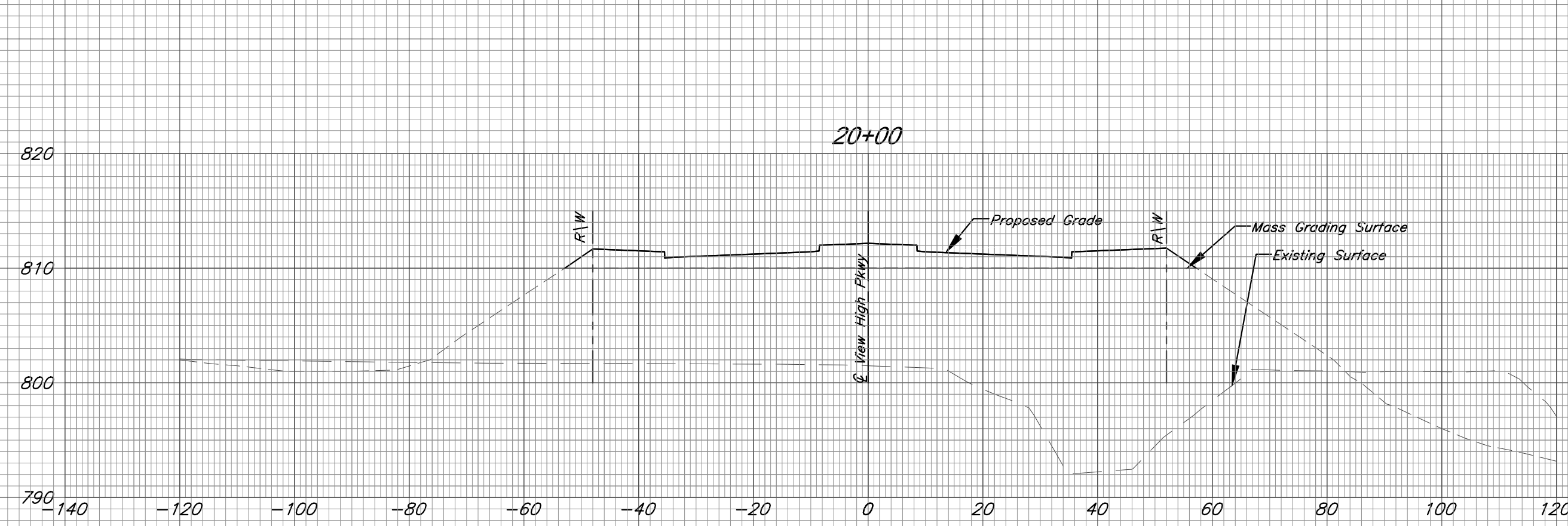
DATE: 6-25-2020	
DESIGN BY: CEL	
DRAWN BY: DRV	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
48	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

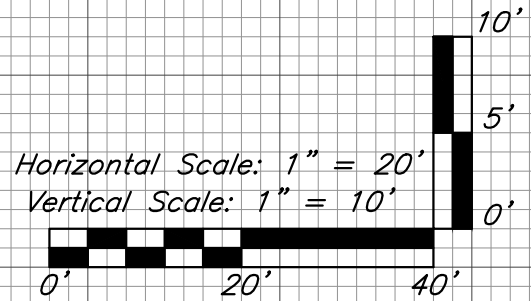
NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

1	1/27/21	Revised Structure Size	As-Built: " 100.00 100.10", " 4.00% 1.15%
2	2/4/21	Retaining Wall Station & Offsets	slope 1 or 3-inch 10" RC pipe are all
	2/26/21	RFI 11	typical examples of revisions that indicate that
3	3/11/21	RFI 12	design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2501.dwg Layout: 49 View High Parkway Cross Sections -- Thursday April 06, 2023, 3:44pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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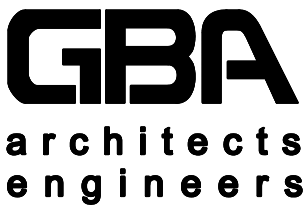
Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

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DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
49	104

Street and Storm Sewer Plans

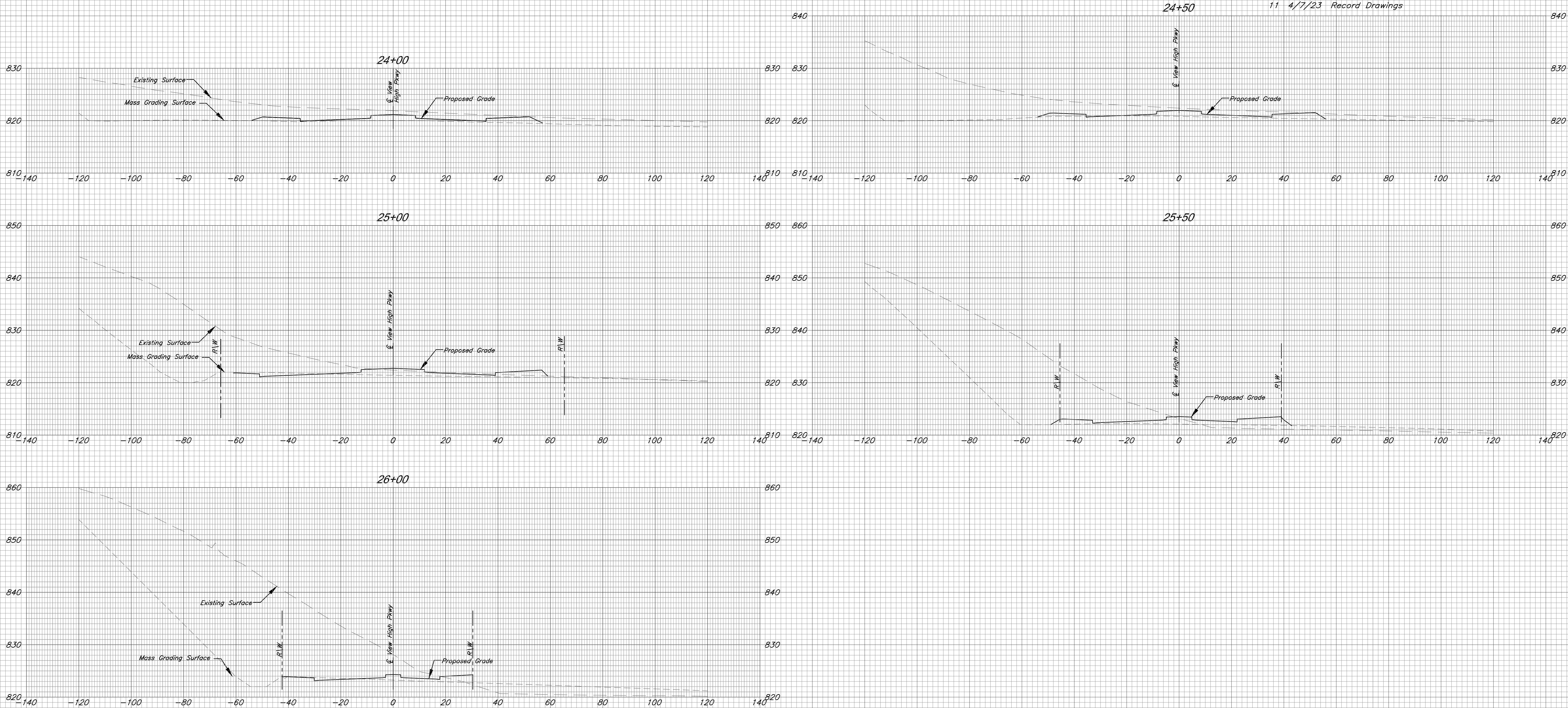
Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
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2	11/23/20	Utility Updates		

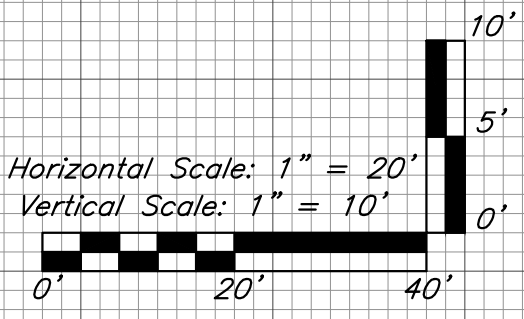
- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections

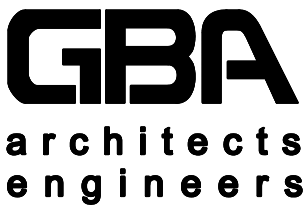
C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2501.dwg Layout: 50 View High Parkway Cross Sections -- Thursday April 06, 2023, 3:44pm -- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA

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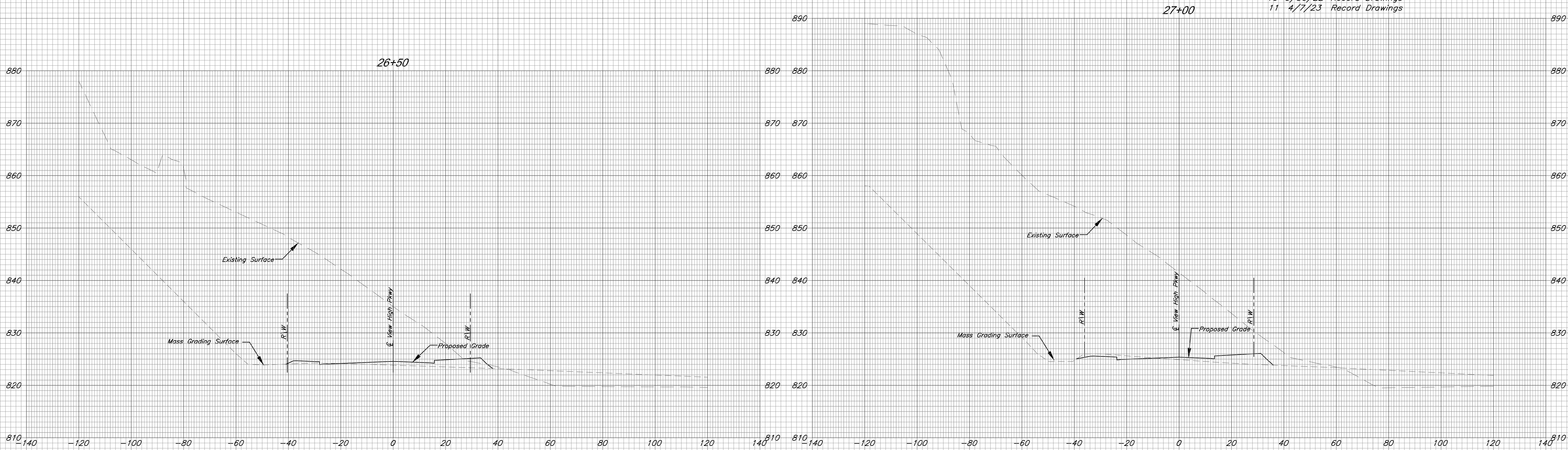
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DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
50	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

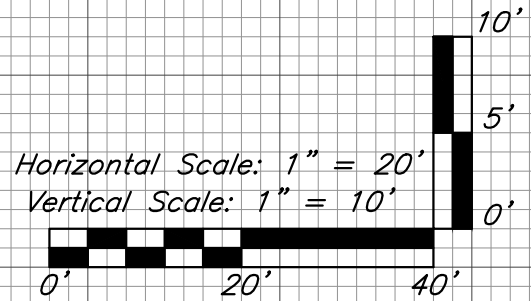
NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15-Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2501.dwg Layout: 51 View High Parkway Cross Sections -- Thursday April 06, 2023, 3:44pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



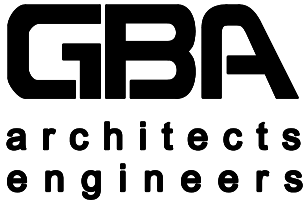
The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING



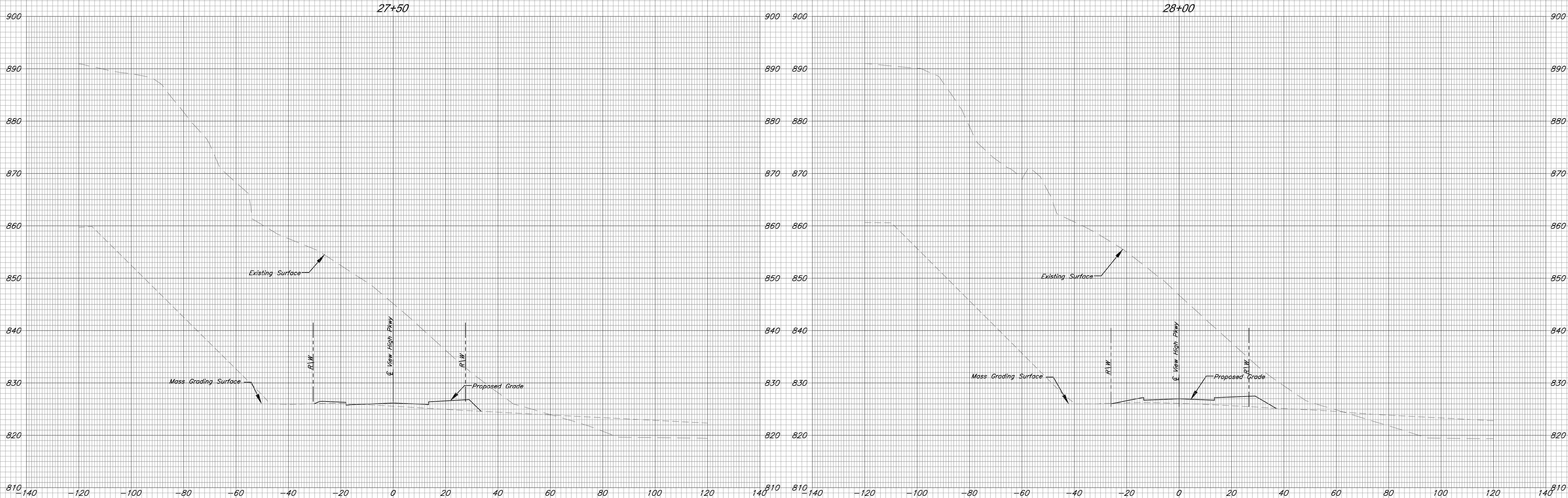
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DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
51	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

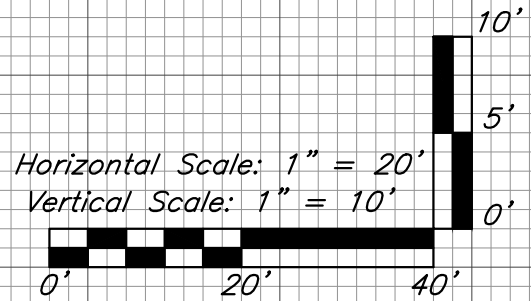
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	11/23/20	Utility Updates		
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2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15-Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

As-Built: "100-00 100.10" "1-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections

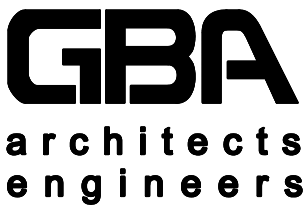
C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2501.dwg Layout: 52 View High Parkway Cross Sections -- Thursday April 06, 2023, 3:44pm -- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA

RECORD DRAWING



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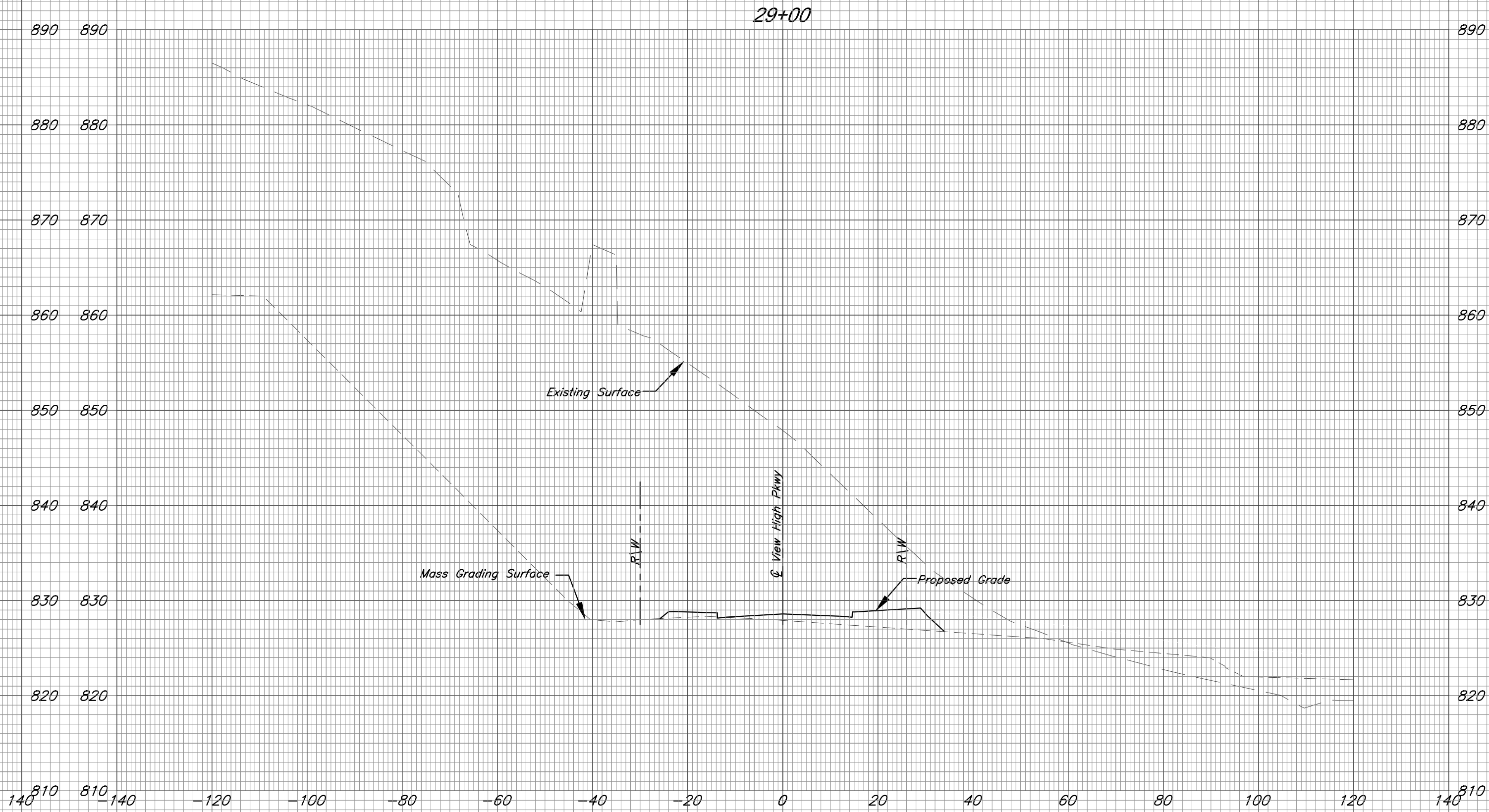
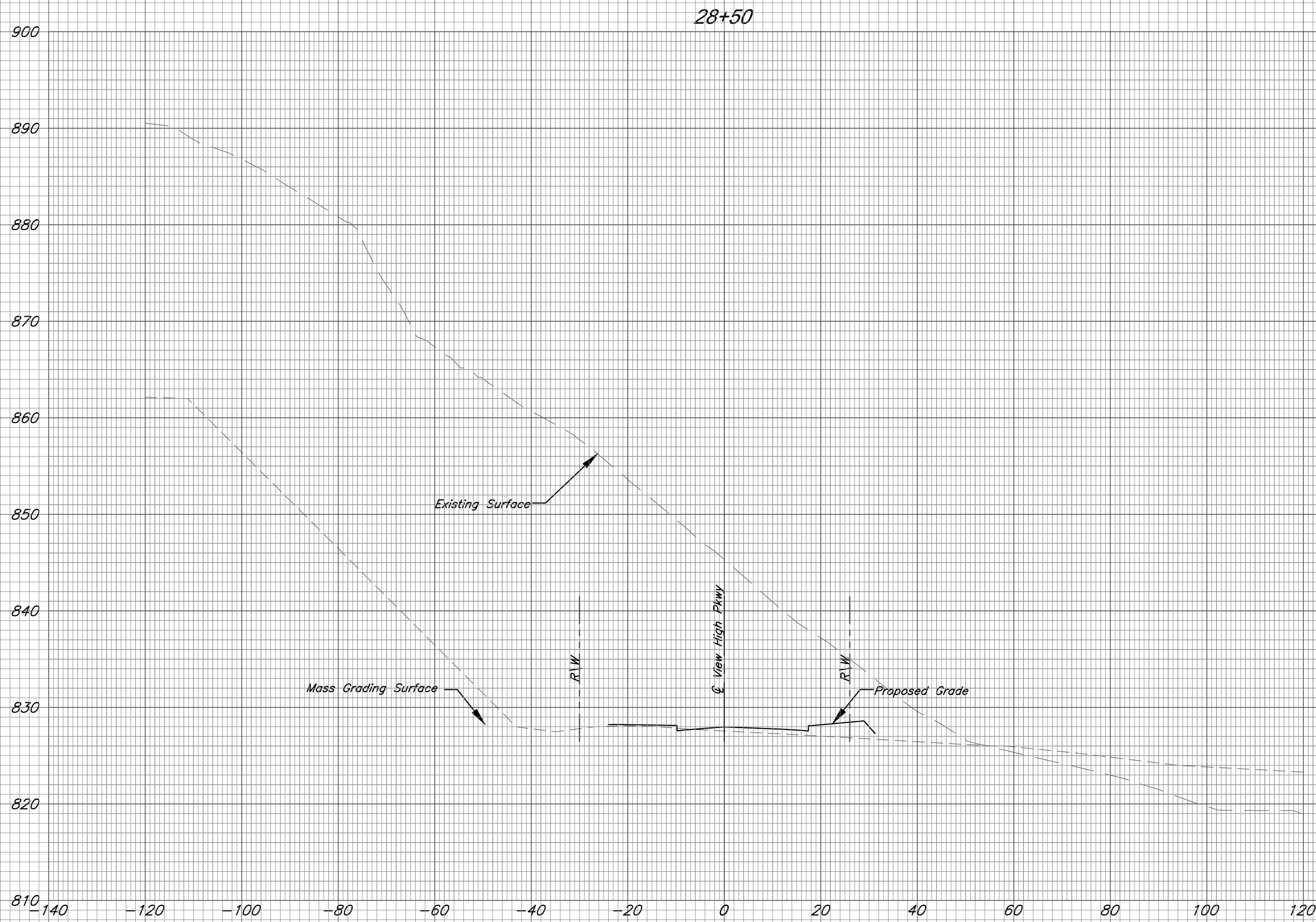
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DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
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Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
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	11/23/20	Utility Updates		

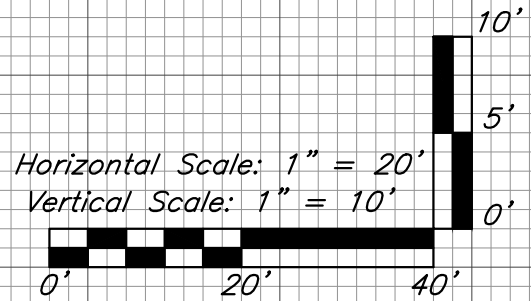
- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
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- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



View High Parkway Cross Sections

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Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA

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DATE:	6-25-2020
DESIGN BY:	CEL
DRAWN BY:	DRV
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
53	104

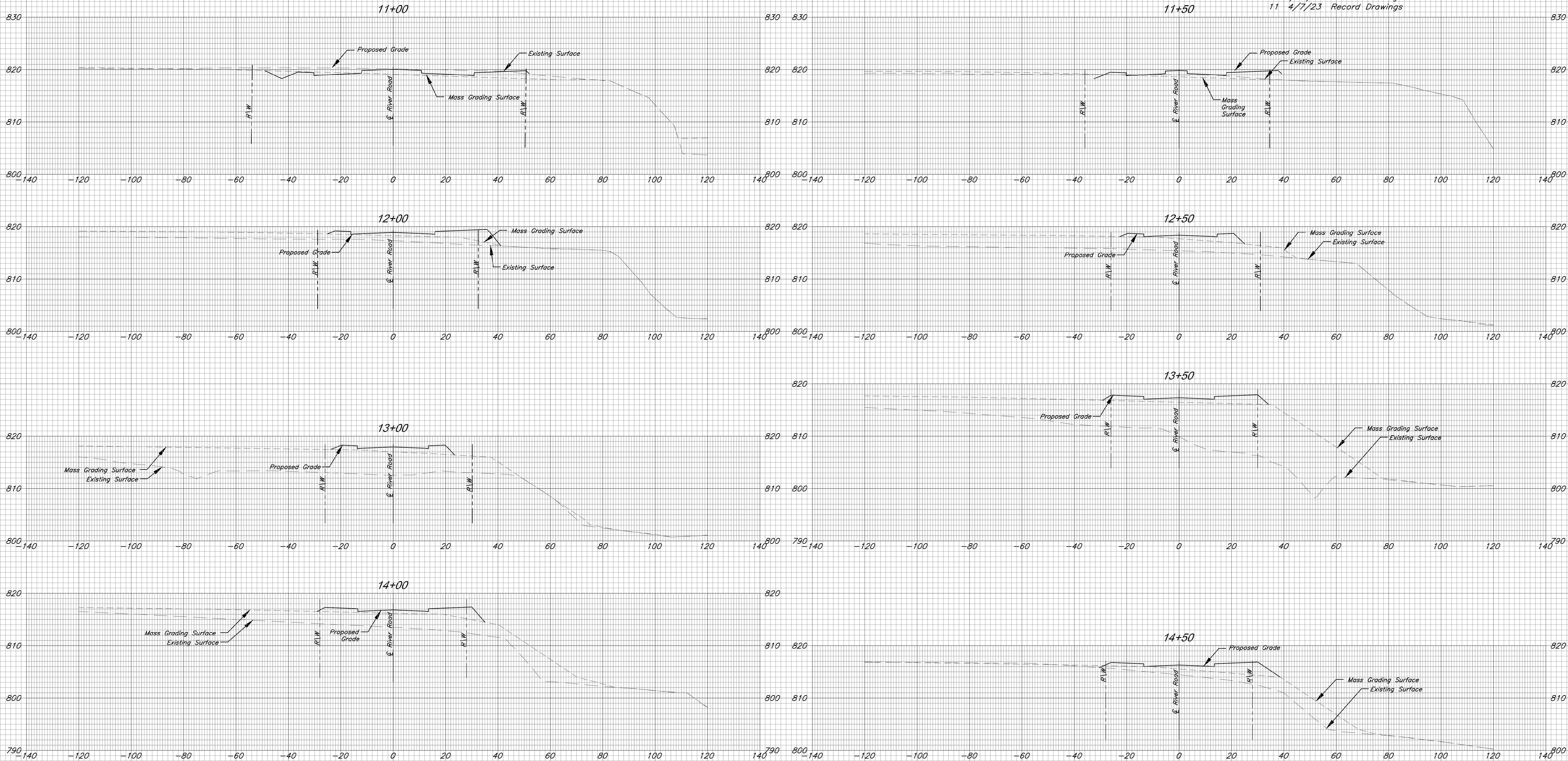
Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

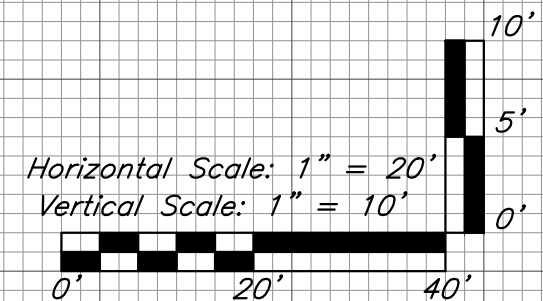
NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
2	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
- 2/4/21 Retaining Wall Station & Offsets
- 2/26/21 RFI 11
- 3/11/21 RFI 12
- 3/11/21 Revised Line 400
- 4/8/21 Utility Updates
- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings
- 4/7/23 Record Drawings

As-Built: "400-00 100.10" "1-000" 1:15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



River Road Cross Sections



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Date: 4/7/23 

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

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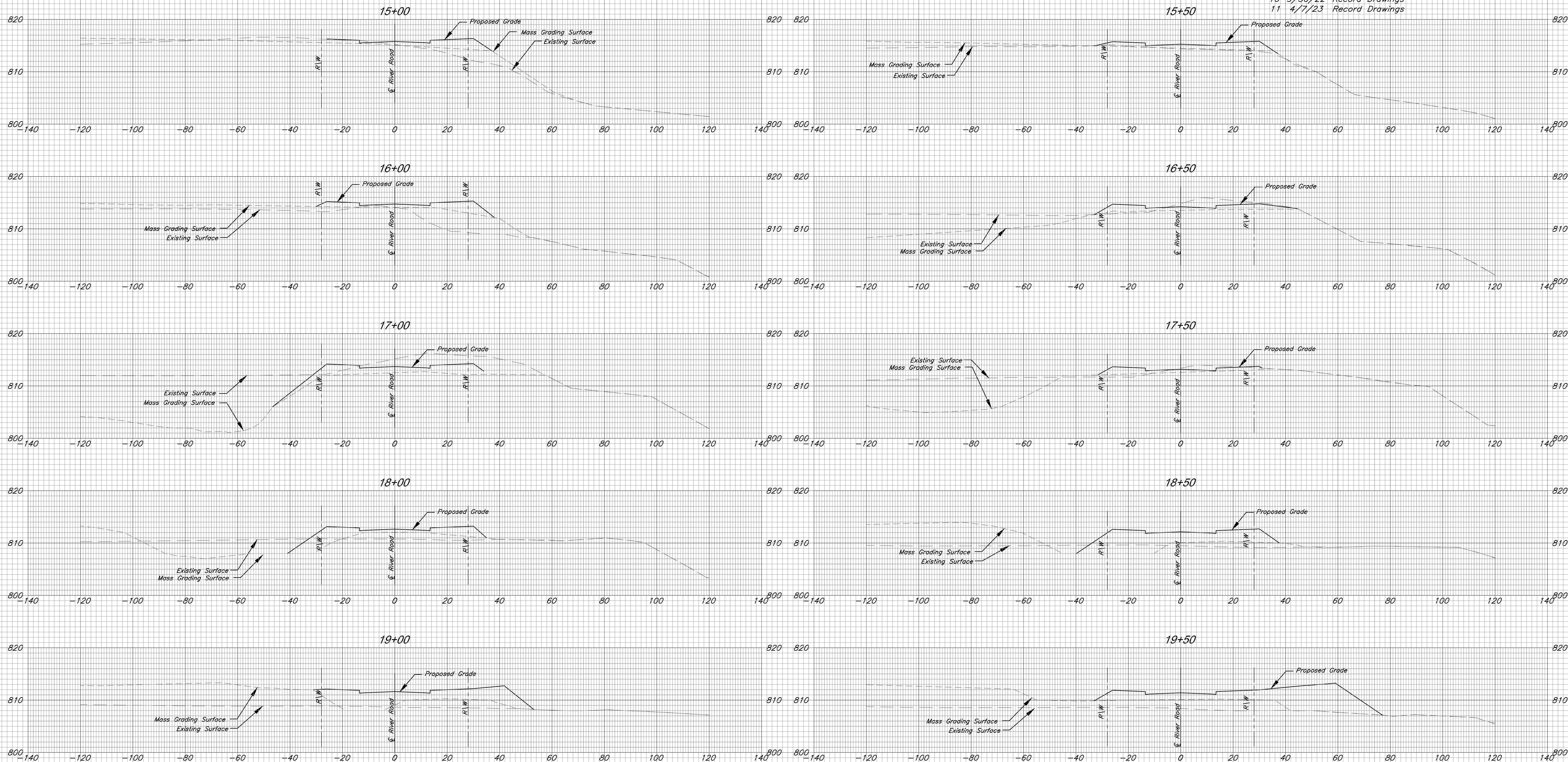
DATE: 6-25-2020	
DESIGN BY: CEL	
DRAWN BY: DRV	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
54	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

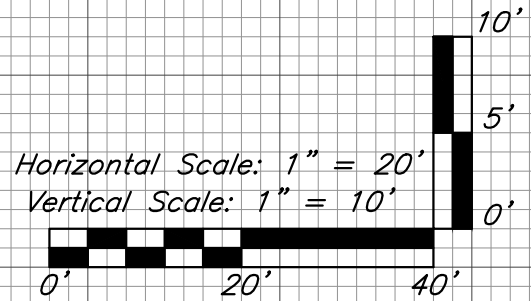
NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- | | | | |
|----|---------|----------------------------------|---|
| 1 | 1/27/21 | Revised Structure Size | As-Built: "400-00 100.10" "4-00# 1.15% |
| 2 | 2/4/21 | Retaining Wall Station & Offsets | slope", or "8-inch HDPE PVC pipe" are all |
| 3 | 2/26/21 | RFI 11 | typical examples of revisions that indicate the |
| 4 | 3/11/21 | RFI 12 | design data has been replaced with "as-built |
| 5 | 3/11/21 | Revised Line 400 | information. All other data is as designed and |
| 6 | 4/8/21 | Utility Updates | has not been field verified. |
| 7 | 5/25/21 | Paver Revision | |
| 8 | 6/15/21 | Grading Updates | |
| 9 | 6/24/21 | Wiring Diagram Updates | |
| 10 | 9/30/21 | RFI 15-Irrigation Sleeves | |
| 11 | 9/30/22 | Record Drawings | |
| 12 | 4/7/23 | Record Drawings | |



River Road Cross Sections

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720C2502.dwg Thursday, April 06, 2023, 3:45pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING



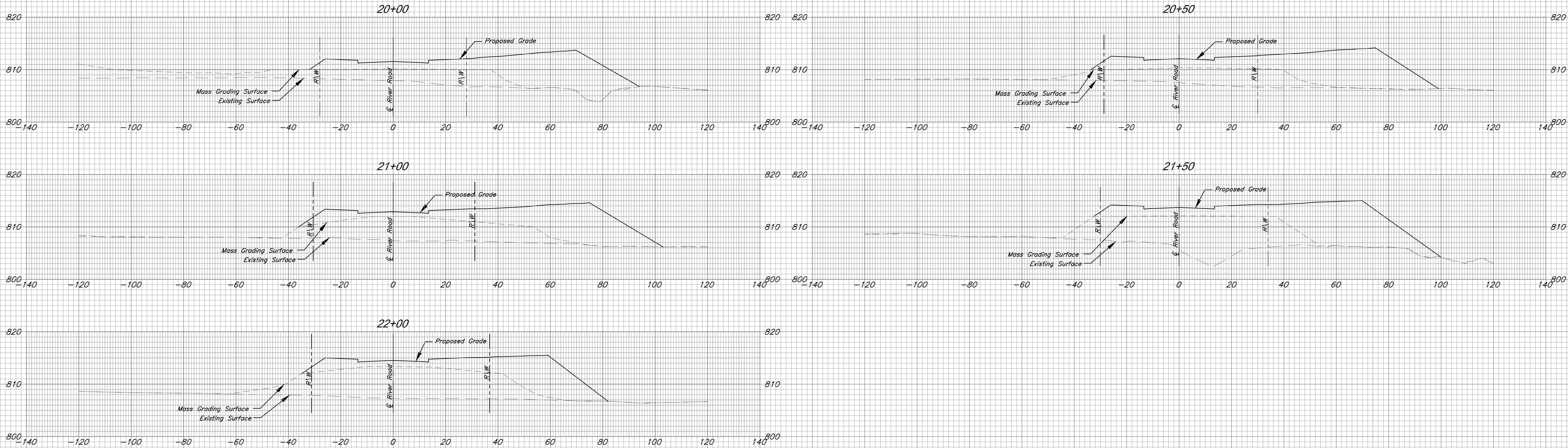
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DATE: 6-25-2020	
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PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
55	104

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License No. 25862

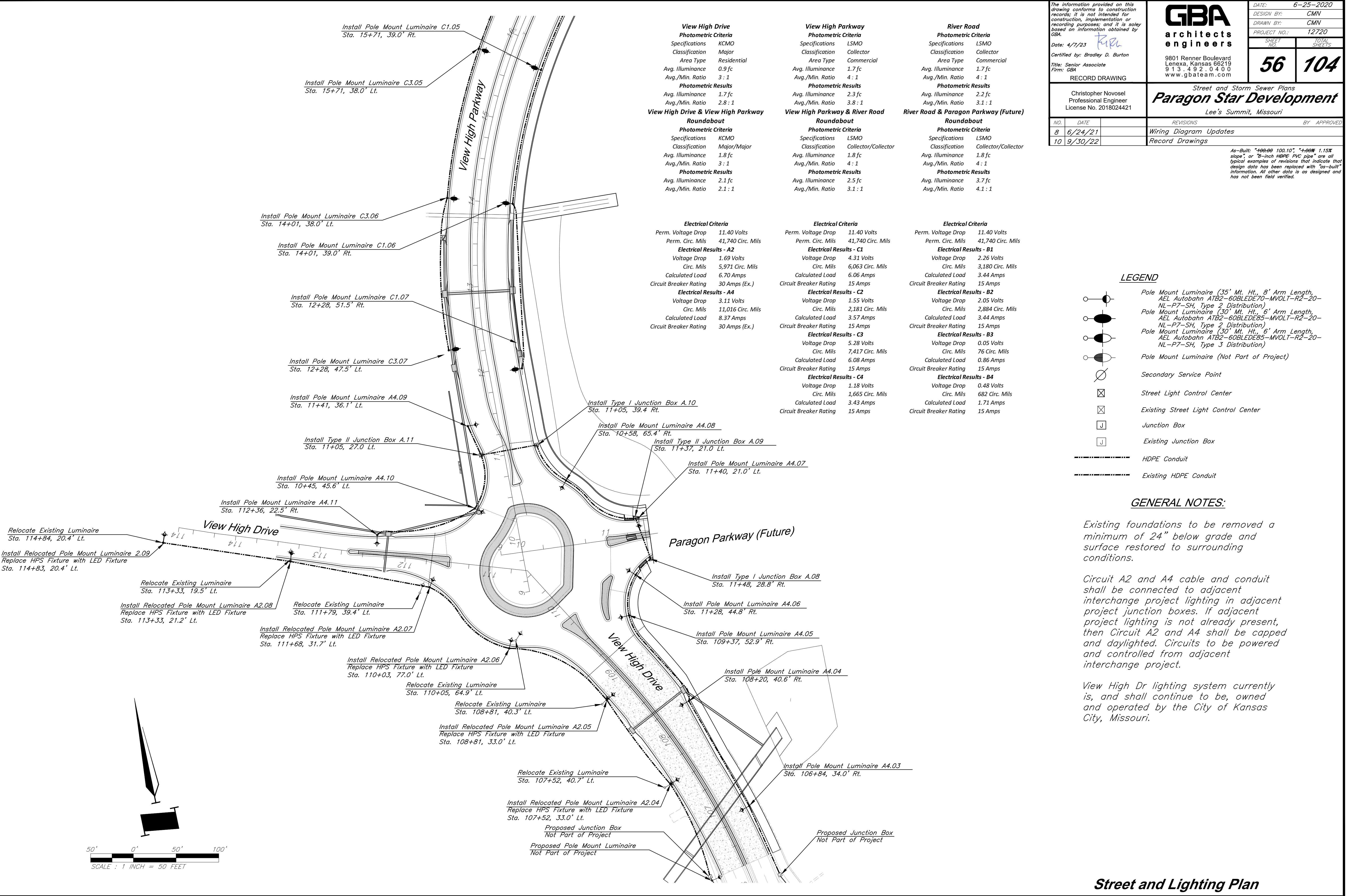
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS		BY	APPROVED
	9/2/20	City Comments			
	11/23/20	Utility Updates			
1	1/27/21	Revised Structure Size		As-Built: "400-00 100.10" "1-000" 1.15% slope; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.	
2	2/4/21	Retaining Wall Station & Offsets			
	2/26/21	RFI 11			
3	3/11/21	RFI 12			
4	3/11/21	Revised Line 400			
5	4/8/21	Utility Updates			
6	5/25/21	Paver Revision			
7	6/15/21	Grading Updates			
8	6/24/21	Wiring Diagram Updates			
9	9/30/21	RFI 15-Irrigation Sleeves			
10	9/30/22	Record Drawings			
11	4/7/23	Record Drawings			



River Road Cross Sections

C:\12220\Civil 3D\Production Drawings\Street & Storm Plans\122075100.dwg Layout: 56 Street and Lighting Plan -- Thursday, April 06, 2023, 3:46pm -- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



C:\12220\Civil 3D\Production Drawings\Street & Storm Plans\122015600.dwg Layout: 58 KCMO Street Lighting Details Thursday April 06, 2023, 3:46pm Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

KCMO GENERAL LIGHTING NOTES

All work shall comply with the Kansas City, MO, Department of Public Works Standard Construction and Materials Specification, Division II Section 2800, Division V Section 5800, supplemental changes and other APWA sections required to restore the City's 'right-of-way' to its original condition.

1.Roadway and Area classifications are Major/Residential. Pavement classification is R3 with a LLF of 0.68 (Major/Residential).

2.The streetlight layout was based on the following:

250W LED (Type C) equivalent: Autobahn #ATB2-60BLEDE70-MVOLT-R2-20-NL-P7-SH (130W LED), Multi-volt, Type II Optics, 20kV SPD, 7 Pin Receptacle, and Dimmable Driver with Shorting Cap or approved equal.

3.Poles shall be a Valmont or approved equal, round tapered galvanized steel. The mounting heights and arms shall be 35ft with an 8ft arm. Poles shall meet APWA Section 2802.18. Poles shall match appearance of existing street lighting poles in the project area.

4.All distribution cable shall be installed in Schedule 40, 2"PVC conduit or in preassembled 'cable-in-duct', except where shown on plans. All conduit runs shall be place 2ft from back of cub where possible and at a minimum depth of 24".

5.Per APWA Section 5800, all street light poles, materials and controller must be installed within the City's 'Right-of-Way', except where shown on plans.

6.Distribution cable shall be as noted per plans, Type RHH/RHW/USE, 600 Volt, copper stranded and color coded black, red (or black) and green (APWA 2802.10) for a grounded 240Volt system (single phase).

7.Cable used within the poles shall be 3-#10, Type RHW/USE, 600 Volts rated, copper stranded, U.L. listed and color-coded red, black and green according to the NEC.

8.Provide and install in each pole base, 3 single-pole, set-screw, in-line, breakaway, fuseholders. Use Bussman (or approved equal) Model No. HEB-JW-RYC and HEB-JW-RLC-J (last pole). For the 2 "hot" breakaway conductors, place a 10 Amp KTK fuse in each breakaway fuseholder and a NNB Copper Slug in the system ground fuseholder."

9.Individual and system grounds shall be installed on all circuits (pole grounding rods and a ground wire from pole to pole). Grounding shall comply with Section 2803.8 of standards noted above.

10.All conduit crossings shall be indicated with an aluminum marker in the top of curb. Aluminum markers to be furnished and installed by the contractor.

11.The contractor is responsible for making his own determination as to type and location of underground and overhead utilities as may be necessary to avoid damage. The contractor shall verify location of underground pipelines, conduits, structures and overhead lines by contacting the owners of the utilities.

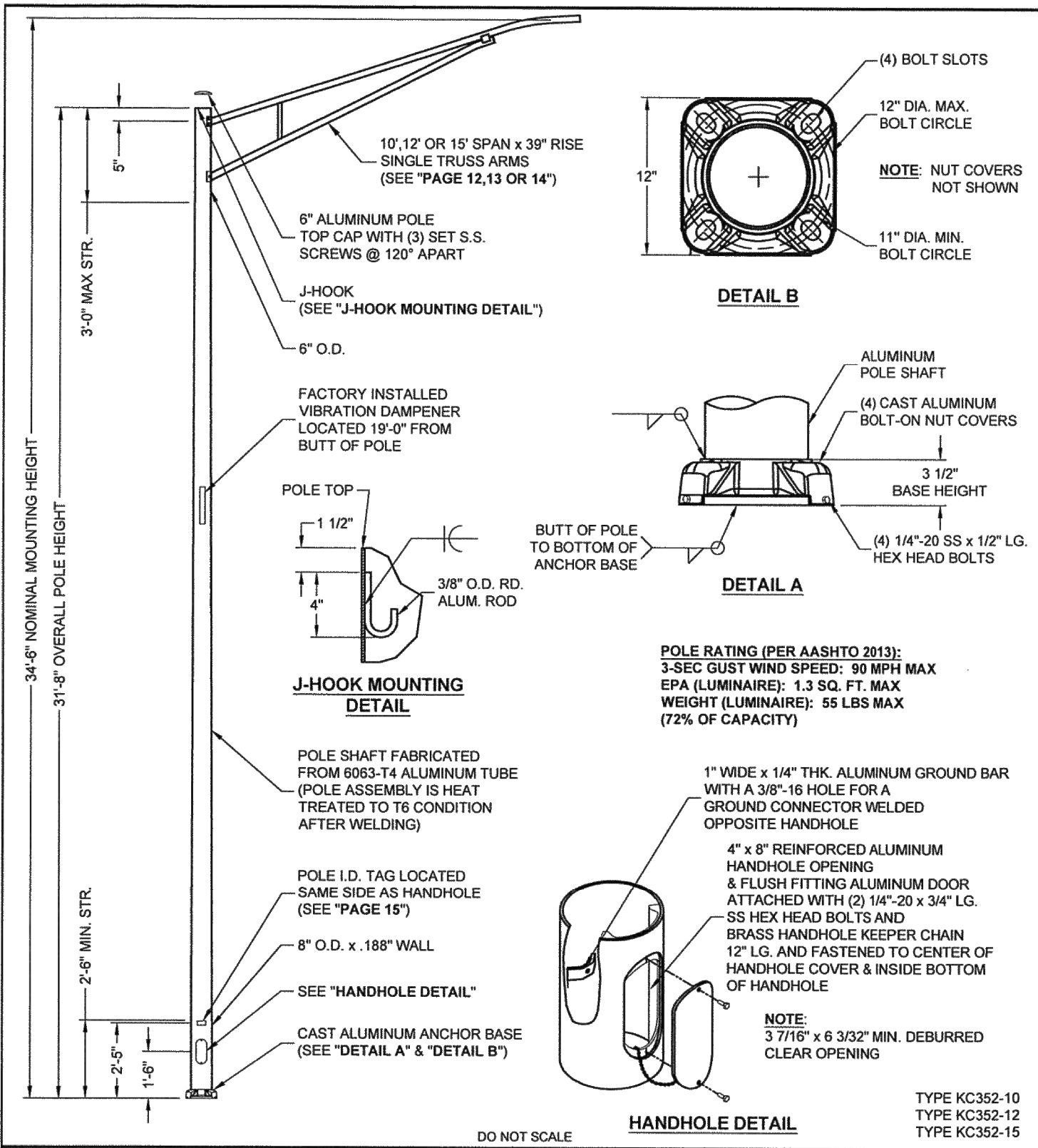
12.The Contractor shall be responsible for all restoration of the construction site to City specifications. The contractor shall also be responsible for all cost associated with any damage, including but not limited to landscaping, sprinkler systems, water, sewer, curbs and sidewalk, gas main, etc., caused by the construction.

13.All workmanship and materials shall be subject to inspection and approval by the Streetlighting, Public Works Department. Coordinate a final joint inspection with Sara Hurst at (816) 513-9882.

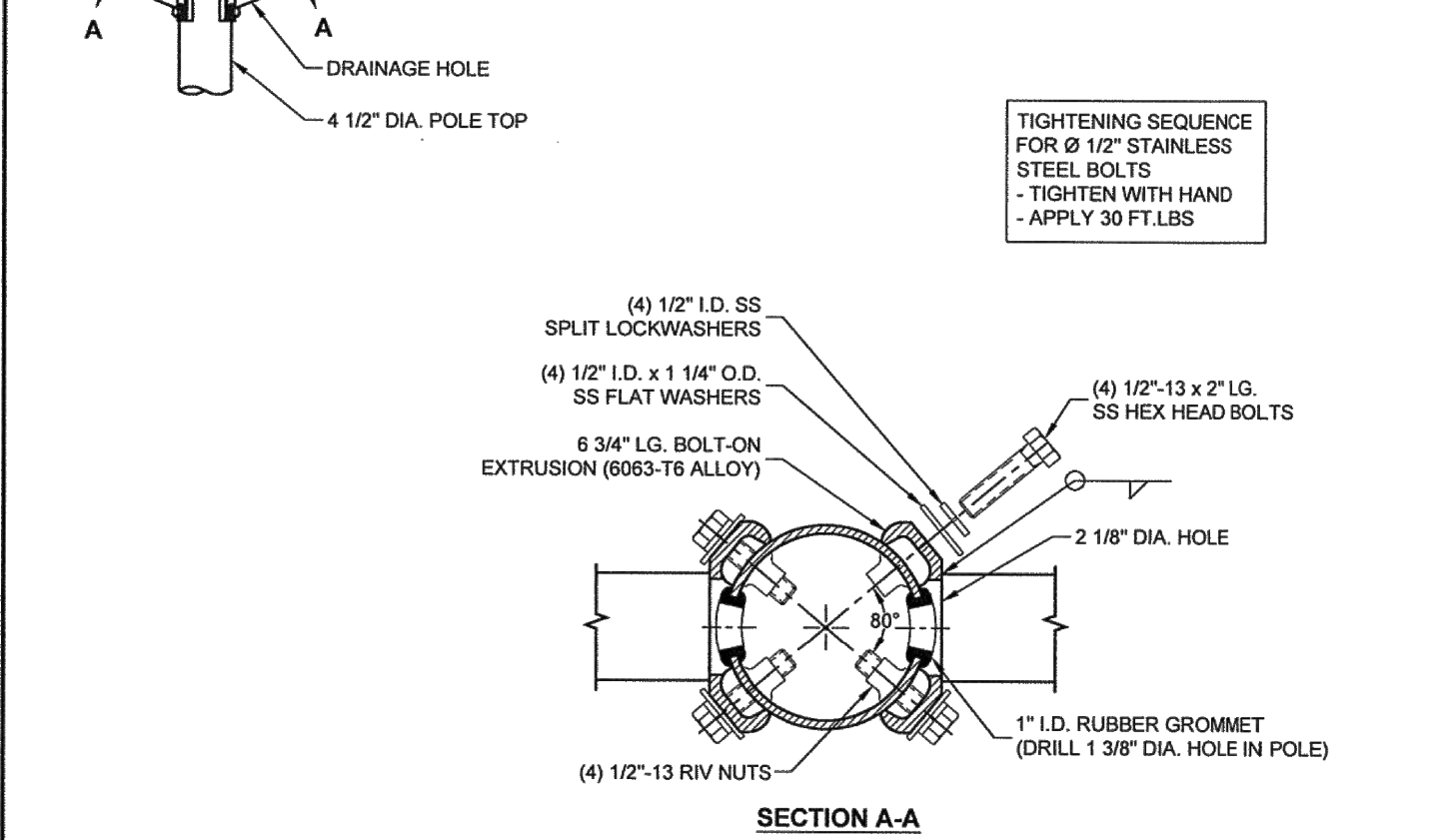
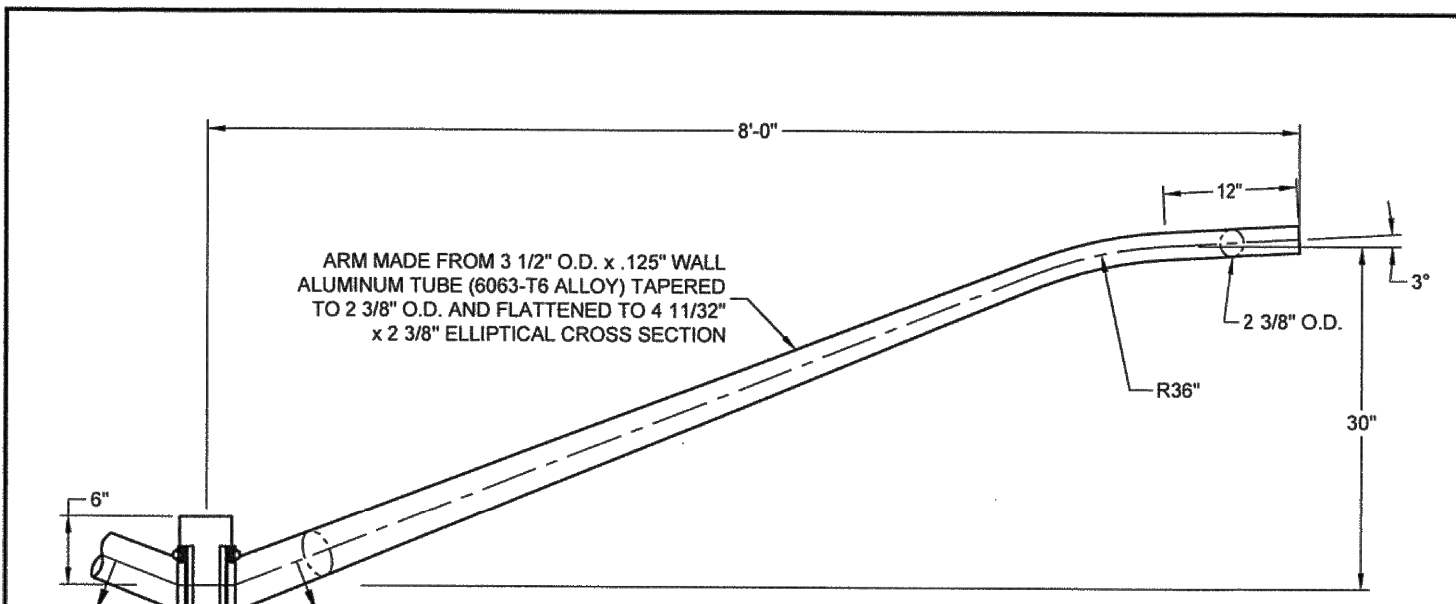
14.Luminaire and Controller Cabinet Labels: The labels shall be KCMO-2X16-ADDS or equal. Contact William Frick & Company at (847) 918-3700. The Contractor shall furnish and install luminaire and controller cabinet identification labels according to the construction plans. Identification labels shall consist of three letters and four numerals in vertical orientation with the letters at the top so as to read downward. Legend shall be 2 inch series "C"upper case black characters on silver retro-reflective sheeting with pressure sensitive adhesive backing, as prescribed for use on standard highways signs in the FHWA Manual of Uniform Traffic Control Devices. Labels must be coordinated with the Streetlighting Section at (816) 513-9500.

Steel poles shall be labeled by affixing self-adhesive decal directly on the pole. The label shall be position on the vertical axis of the pole facing the street and 8-10 feet above the pavement surface. Labels on cabinets shall be positioned near the top of the door adjacent to the door hinge.

15.The contractor shall install a cable retainer assembly mounted between a luminaire type pole and foundation anchor. The retainer is designed to secure the electrical conductors to prevent conductor theft. Contact PELCO at (405) 562-4680 for information and material.



DO NOT SCALE			
valmont		TITLE: S ANCHOR BASE ALUMINUM POLE	QTY:
Valmont Industries, Inc. Structures Division 20805 Eaton Ave. Farmington, Minnesota 55024-7932 Phone: (651) 463-8960 (800) 899-7577 Fax: (651) 463-3340		MODEL NO.: 310820804A MATERIAL: ALUMINUM ALLOY FINISH: 100 GRT SATIN POLISH PROJECT: CITY OF KANSAS CITY, MO SOLD TO: SHIP TO: P.O. NO:	DWN BY: HJT CHKD BY: APPV BY: JPB DATE: 06-25-18 REP: POWER EQUIPMENT SALES DWG NO: DSKC PAGE: 5/15
CONFIDENTIAL The information contained in this drawing is privileged and confidential, and may be protected from disclosure. Please be aware that any use or dissemination of this drawing may be subject to legal restriction or sanction.			
REV	DATE	REVISION DESCRIPTION	BY



DO NOT SCALE			
valmont		TITLE: S 8' x 30' x 3.5' SGL OR DBL MAST ARM 4.5"	QTY:
Valmont Industries, Inc. Structures Division 20805 Eaton Ave. Farmington, Minnesota 55024-7932 Phone: (651) 463-8960 (800) 899-7577 Fax: (651) 463-3340		MODEL NO.: (1) OR (2) MA0830845D MATERIAL: ALUMINUM ALLOY FINISH: 100 GRT SATIN POLISH PROJECT: CITY OF KANSAS CITY, MO SOLD TO: SHIP TO: P.O. NO:	DWN BY: HJT CHKD BY: APPV BY: JPB DATE: 06-25-18 REP: POWER EQUIPMENT SALES DWG NO: DSKC PAGE: 10/15
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REV	DATE	REVISION DESCRIPTION	BY

KCMO Street Lighting Details

PACIFIC UTILITY PRODUCTS
2950 E. PHILADELPHIA ST. ONTARIO CA 91761
FAL147001A
S.O. SE

INDUSTRIAL CONTROL - RAINPROOF / OUTDOOR TYPE 3R
SUITABLE FOR USE AS SERVICE EQUIPMENT
BONDED NEUTRAL REMOVE BONDING MEANS FOR TEST PURPOSES ONLY

CAT.NO. USP16R-M2100-112C-KDOT-MOD 120/240VAC 1-PHASE 60Hz 3-WIRE 100 AMPS

SHORT CIRCUIT RATING: 10,000 RMS SYMMETRICAL AMPS @ 240 VAC MAX.
HOWEVER, THIS SHORT CIRCUIT RATING IS LIMITED TO THE LOWEST INTERRUPTING CAPACITY ON ANY DEVICE INSTALLED.

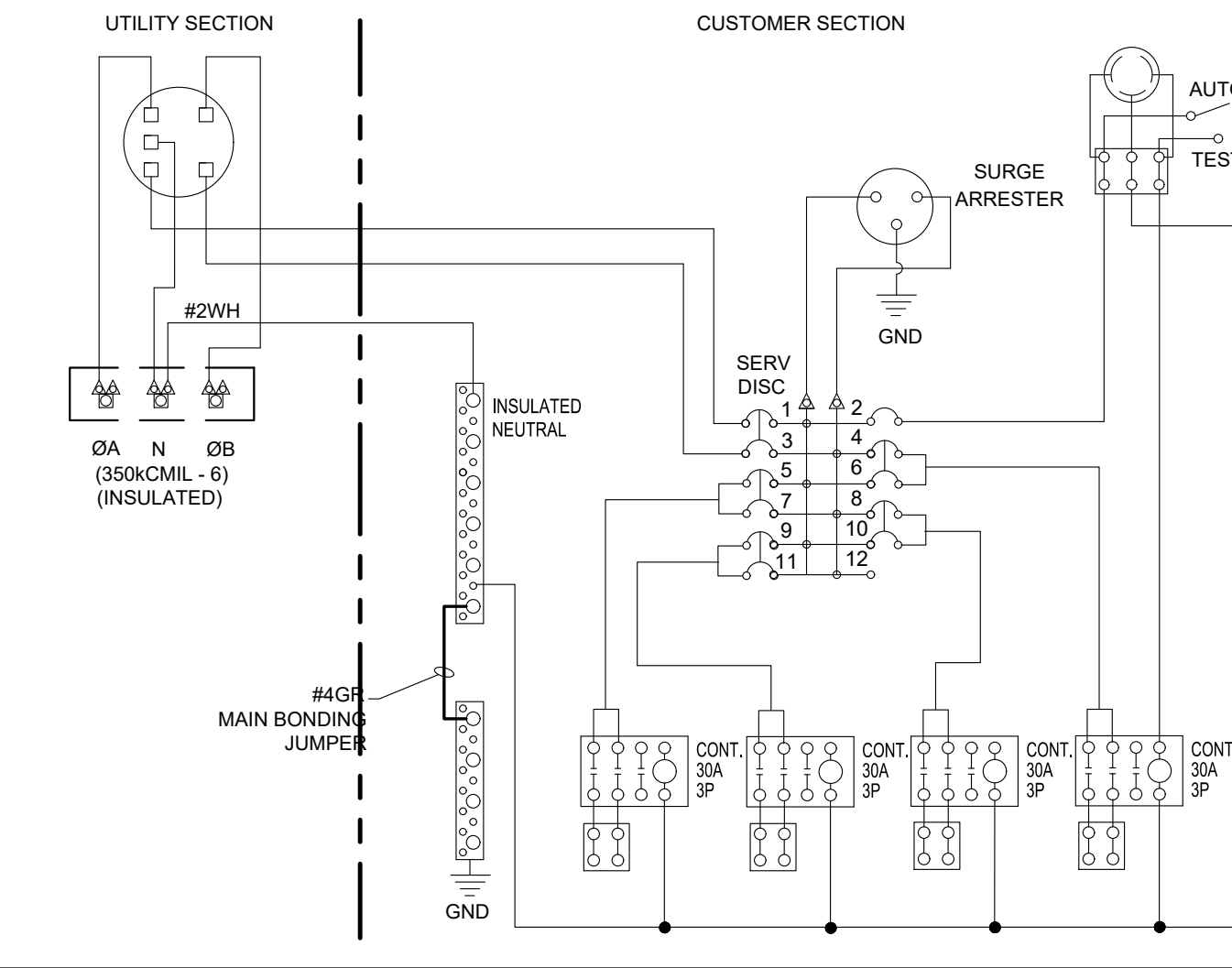
*MAIN SERVICE DISCONNECT: 100 AMPS CUTLER-HAMMER TYPE BR, BRH, *CIRCUIT BREAKERS 90 AMPS OR LESS: CUTLER-HAMMER TYPE BR, BRH, BD, BQ, GFCB, REPLACEMENT BREAKER(S) MUST BE SAME TYPE AND RATING.

*AUTOMATIC TRIP IS INDICATED BY HANDLE POSITION MIDWAY BETWEEN (ON) AND (OFF). TO RESTORE POWER MOVE HANDLE TO (OFF), THEN (ON).

*METER SOCKET: DURHAM, 200 AMPS CONTINUOUS.
*LOAD CENTER IS SUITABLE FOR USE WITH 60/75 DEGREE C COPPER OR ALUMINUM WIRE.

*LOAD CENTER IS LIMITED TO A MAXIMUM OF 12 INSTALLED CIRCUITS THAT UTILIZE A NEUTRAL CONNECTION, EITHER SINGLE POLE, MULTI-POLE, OR A COMBINATION OF EACH.

*SHIPPING TENDS TO LOOSEN ELECTRICAL CONNECTIONS - TIGHTEN ALL CONNECTIONS BEFORE ENERGIZING UNIT.



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

DATE: 6-25-2020

DESIGN BY: CMN

DRAWN BY: CMN

PROJECT NO.: 12720

SHEET NO. TOTAL SHEETS

58 104

GBA

architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-90 100.10", "4-00W 1.15% slope", or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

NO.	AMP.	POLE	DESCRIPTION
1-3	100	2	SERVICE DISCONNECT
5-7	30	2	LIGHTING
9-11	30	2	LIGHTING
2	15	1	PE CONTROL
4-6	30	2	LIGHTING
8-10	30	2	LIGHTING

*** TORQUE INFORMATION

□ 350MCM - 6 CU/AL 325 IN.LB.

△ #14-1/0 CU/AL 50 IN.LB.

*** NEUTRAL & EQUIPMENT GROUND-SINGLE CONDUCTOR

○ #14-1/0 CU/AL #3-1/0 50 IN.LB.

#6-4 45 IN.LB.

#8 40 IN.LB.

#14-10 25 IN.LB.

#6 35 IN.LB.

#8 25 IN.LB.

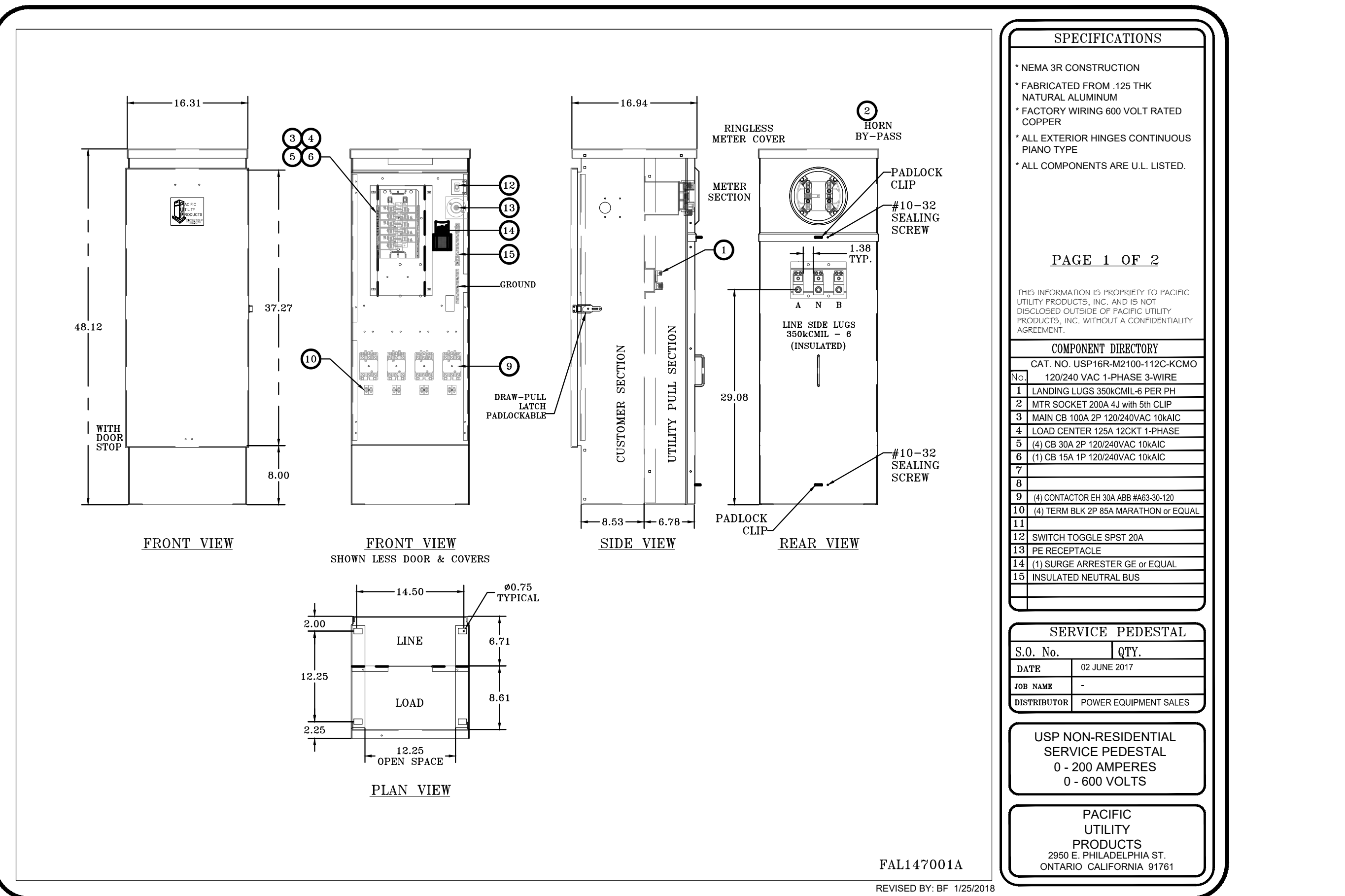
#14-10 20 IN.LB.

*** EQUIPMENT GROUND-MULTIPLE CONDUCTOR

○ (2 OR 3) #10,12,14 CU/AL 45 IN.LB.

○ (2) #12,14 CU/AL 20 IN.LB.

*** FIELD INSTALLED DEVICES-TORQUE TO VALUES INDICATED ON OR WITH DEVICE



SPECIFICATIONS

- * NEMA 3R CONSTRUCTION
- * FABRICATED FROM .125 THK NATURAL ALUMINUM
- * FACTORY WIRING 600 VOLT RATED COPPER
- * ALL EXTERIOR HINGES CONTINUOUS PIANO TYPE
- * ALL COMPONENTS ARE U.L. LISTED.

PAGE 1 OF 2

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COMPONENT DIRECTORY

CAT. NO. USP16R-M2100-112C-KCMO

1 LANDING LUGS 350KCMIL-6 PER PH

2 MTR SOCKET 200A 4J with 5th CLIP

3 MAIN CB 100A 2P 120/240VAC 10kAIC

4 LOAD CENTER 125A 120/240VAC 10kAIC

5 (4) CB 30A 2P 120/240VAC 10kAIC

6 (1) CB 15A 1P 120/240VAC 10kAIC

7

8

9 (4) CONTACTOR BK 30A ABB #A63-30-120

10 (4) TERM BLK 2P 85A MARATHON or EQUAL

11

12 SWITCH TOGGLE SPST 20A

13 PE RECEPTACLE

14 (1) SURGE ARRESTER GE or EQUAL

15 INSULATED NEUTRAL BUS

SERVICE PEDESTAL

S.O. No. QTY.

DATE 02 JUNE 2017

JOB NAME

DISTRIBUTOR POWER EQUIPMENT SALES

USP NON-RESIDENTIAL SERVICE PEDESTAL

0 - 200 AMPERES

0 - 600 VOLTS

PACIFIC UTILITY PRODUCTS

2950 E. PHILADELPHIA ST.
ONTARIO CALIFORNIA 91761

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Lee's Summit Street Lighting Details 1 of 5

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Date: 4/7/23
Certified by: Bradley D. Burton
Title: Senior Associate
Firm: GBA
RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020
DESIGN BY: DJM
DRAWN BY: CMN
PROJECT NO.: 12720
SHEET NO. TOTAL SHEETS

59 104

Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO. DATE
8 6/24/21
10 9/30/22

REVISIONS BY APPROVED
Wiring Diagram Updates
Record Drawings

STREET LIGHT POLE, BRACKET ARM, AND BREAK-AWAY BASE

POLE TYPE	MOUNTING HEIGHT (A)	BRACKET ARMS		POLE SHAFT				SHOE BASE		ANCHOR BOLTS		
		LENGTH (B) ARM 1	ARM 2	BASE O.D.	TOP O.D.	MIN. WALL THICKNESS	SHAFT LENGTH (C)	BOLT CIRCLE (BC)		DIAMETER	LENGTH	HOOK
P14	14'	-	-	6"	3"	0.156"	14'-0"	9.5"		0.75" 10NC	25"	3"
P30S	30'	6' or 10'	-	8"	6"	0.188"	26'-6" ±2"	11.0"		1.00" 8NC	36"	4"
P30D	30'	6' or 10'	6' or 10'	8"	6"	0.219"	26'-6" ±2"	11.0"		1.00" 8NC	36"	4"
P40S	40'	6', 10' or 15'	-	8"	6"	0.219"	36'-6" ±2"	11.5"		1.00" 8NC	36"	4"
P40D	40'	6', 10' or 15'	6', 10' or 15'	10"	6"	0.219"	36'-6" ±2"	14.5"		1.00" 8NC	48"	4"

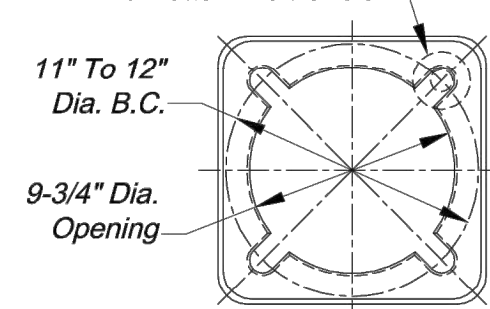
NOTES:

- All poles, arms, and miscellaneous equipment shall conform to these details and as specified by the latest city standard specifications.
- Pole shaft shall have a satin ground finish.
- All hardware (bolts, nuts, washers but not including anchor bolts) not otherwise specifically designated in the specifications or details shall be 300-series stainless steel conforming to ASTM A193 or A194.
- Anchor bolts shall be used with concrete bases. Anchor bolts shall be steel with 50,000 PSI minimum yield; top 10" min. galvanized; including 8 nuts and 8 flat washers galvanized to ASTM A153 standards. Galvanized hex head bolts (see pole foundation sheet) shall be used with screw-in anchor bases. 4 bolts, 4 nuts and 8 flat washers to provided with each anchor.
- All welding is to be done with 4043 weld wire. All arms and shafts are to be heat-treated to T6 temper after welding.
- Anchor bolts shall project above the concrete base as per manufacturer's recommended practices, 2 1/2" to 3".
- The aluminum street light pole assembly, including anchorage and luminaire, shall comply with the latest city standard specifications and the American Association of State Highway and Transportation Officials (AASHTO) load wind loading.
- All poles and arms shall be clearly identified by the manufacturer's name, abbreviation, or symbol engraved on the shaft, shoe base, hand hole, or other means such as to be readily visible after installation.

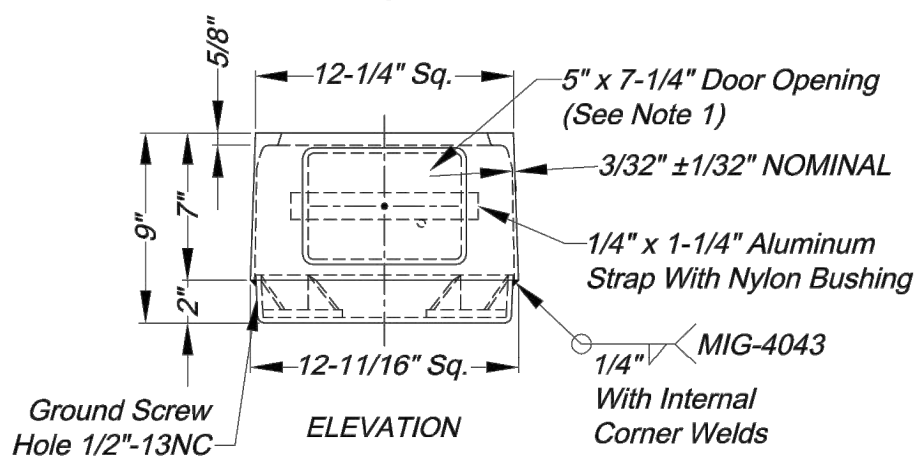
MATERIAL DATA

COMPONENT	ALUMINUM ALLOY DESIGNATION	SPECIFICATION
Shoe Base	356-T6, Cast	ASTM B26 or B108
Breakaway Base	356-T6, Cast	ASTM B108
Bolt Covers	356 or 360, Cast	ASTM B26 or B108
Pole Shaft	6063-T6, Extruded	ASTM B221 or B241
Ground Lug	6061-T5 or 6063-T6, Plate	ASTM B221
Reinforced Handhole Frame	356-T6 or 6061-T6	ASTM B26, B108 or B221
Handhole Cover	6063-T6	ASTM B209, B221 or B241
Bracket Arm & Tubing Pipes	6063-T6	ASTM B221, B241 or B249
Bracket Arm Mounting Plates	6061-T6 or 6063-T6 Extruded	ASTM B221
Bracket Arm Strut & Arm Connector	6061-T6 or 6063-T6 Extruded	ASTM B221, B241 or B249
Pole Cap	356, Cast	ASTM B26 or B108
Anchor Bolts	N/A	Galvanized per ASTM A153

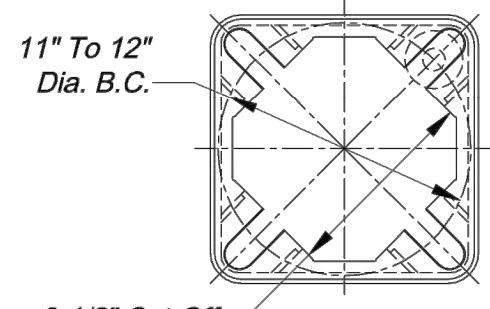
Use 2-3/4" O.D. x 1-1/16" I.D.
x 1/2" Thick Washer For
1" Dia. Anchorage On Top
And Bottom Bolt Circle



TOP



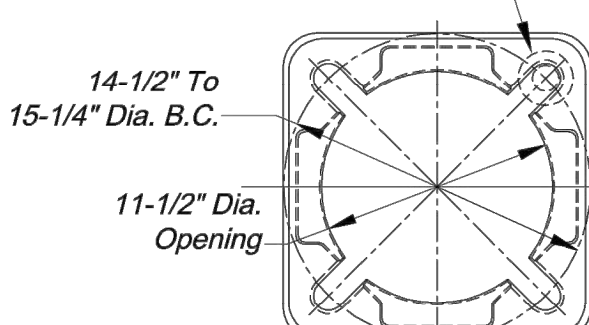
ELEVATION



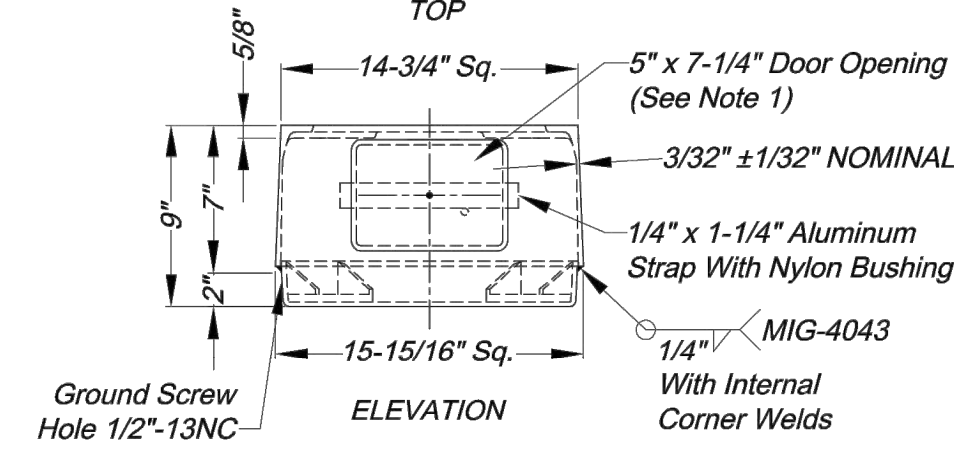
BOTTOM

11" BREAK-AWAY BASE

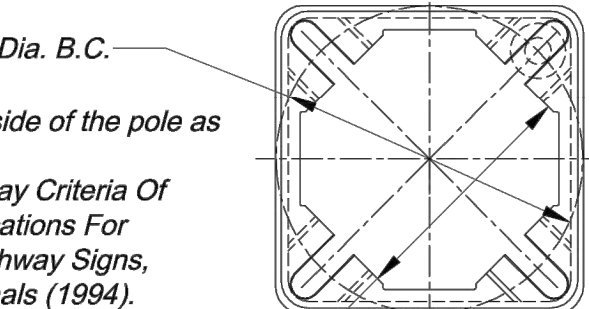
Use 2-3/4" O.D. x 1-1/16" I.D.
x 1/2" Thick Washer For
1" Dia. Anchorage On Top
And Bottom Bolt Circle



TOP

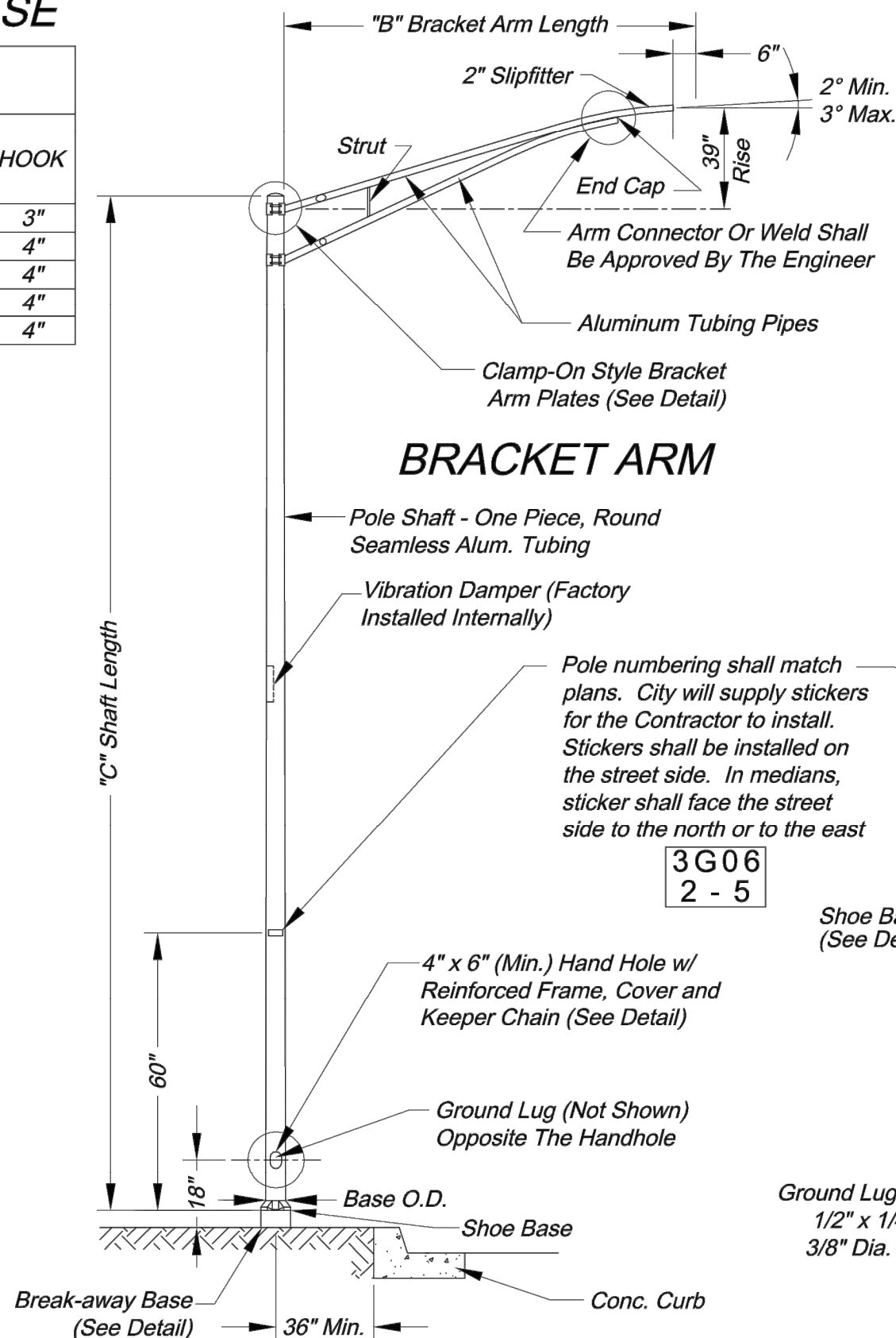


ELEVATION



BOTTOM

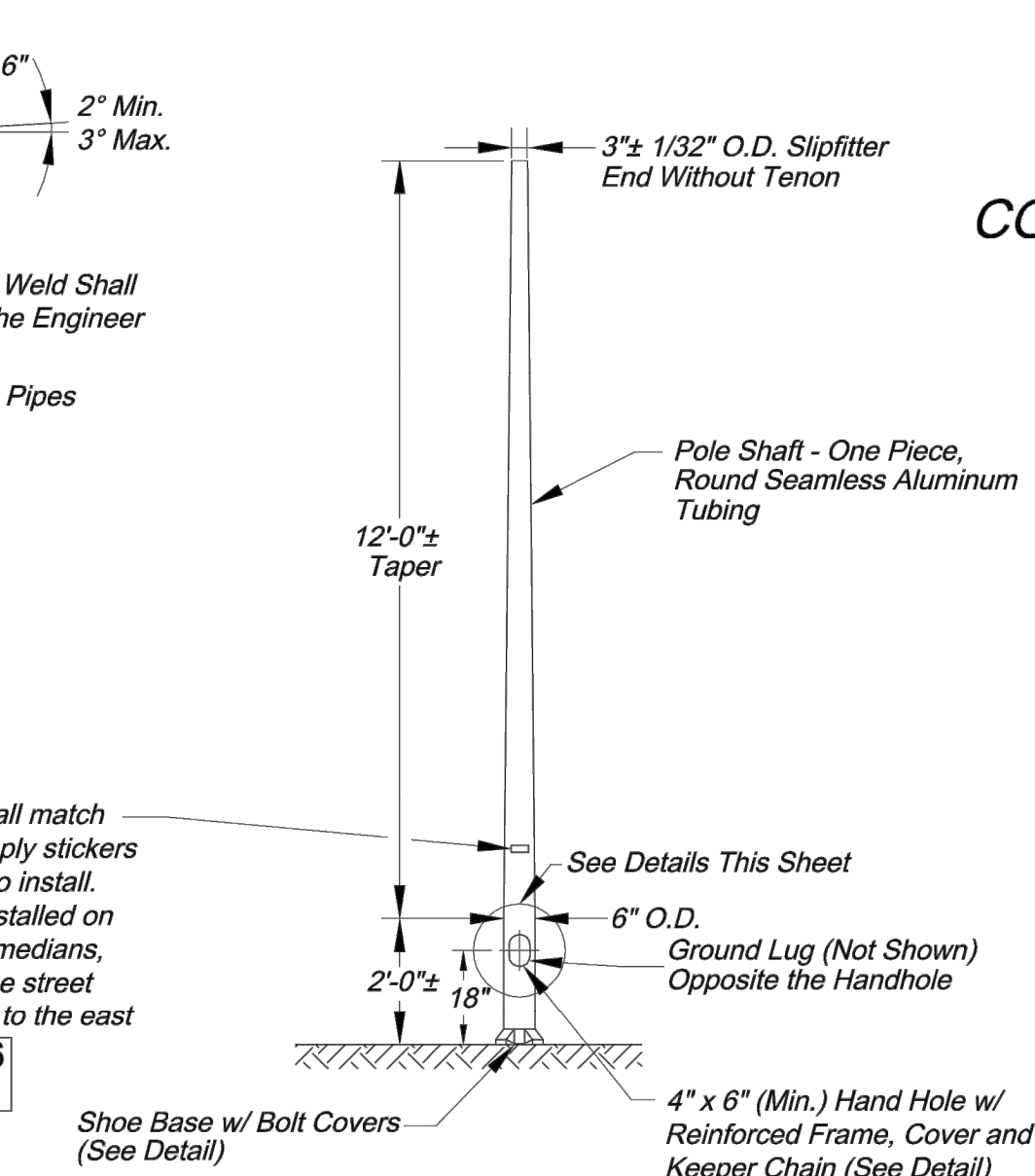
15" BREAK-AWAY BASE



BRACKET ARM

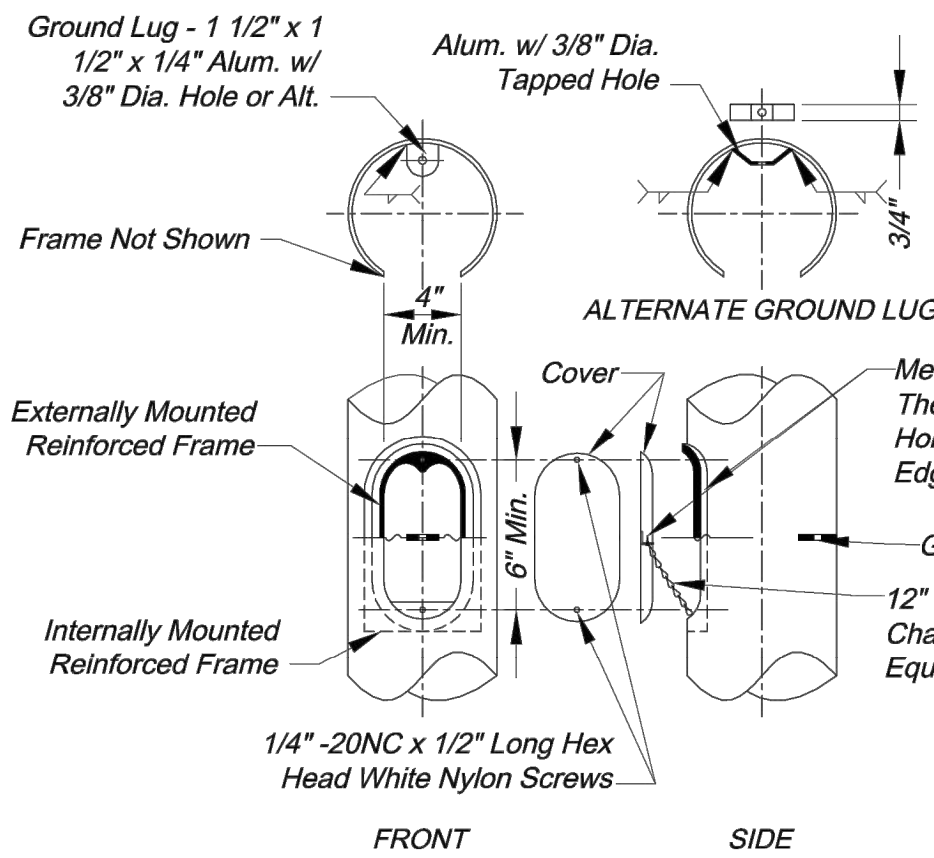
POLE ELEVATION

(See tables for dimensions and materials)

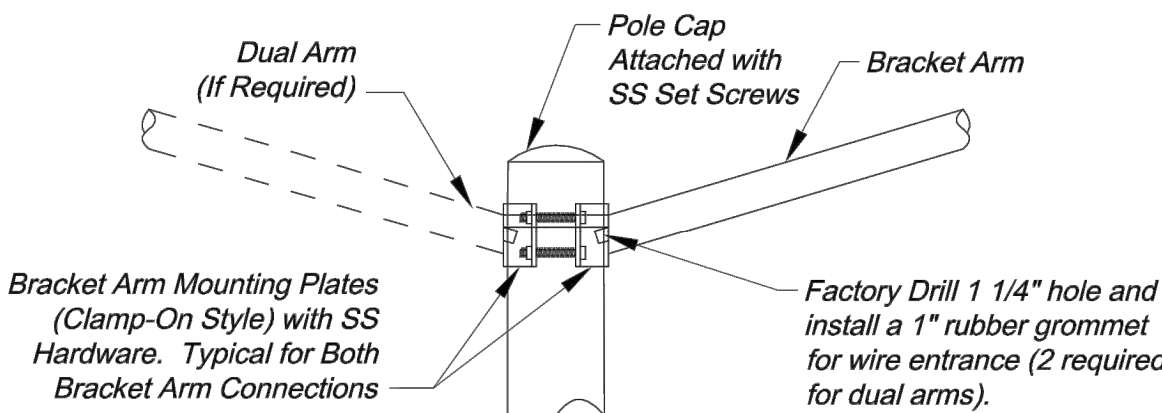


PEDESTAL POLE ELEVATION

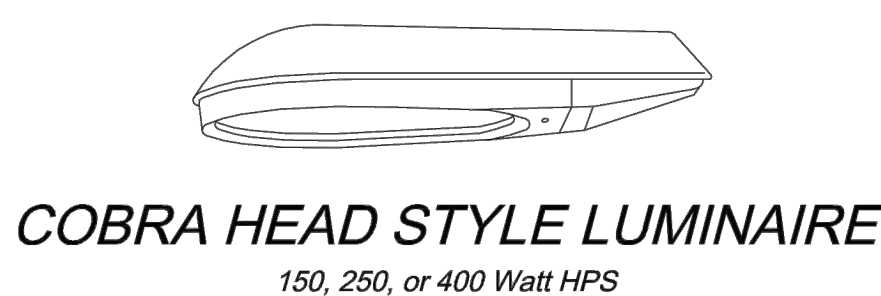
(See tables for dimensions and materials)



HAND HOLE

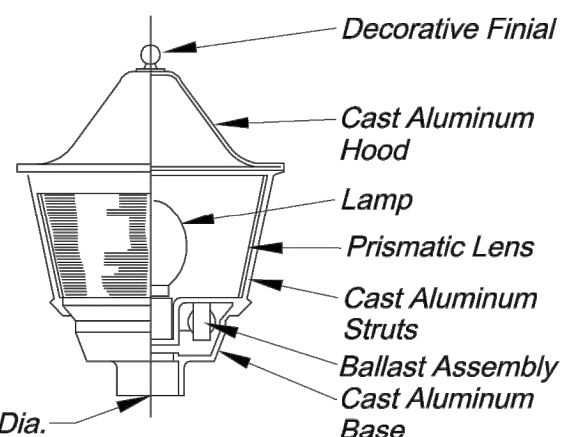


BRACKET ARM MOUNTING



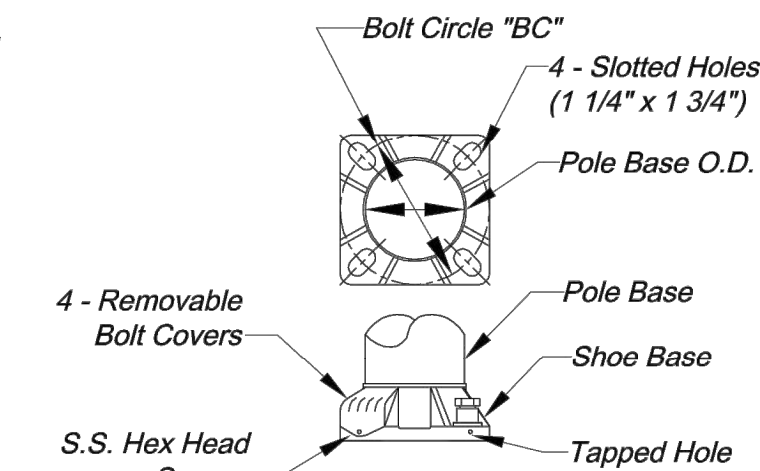
COBRA HEAD STYLE LUMINAIRE

150, 250, or 400 Watt HPS



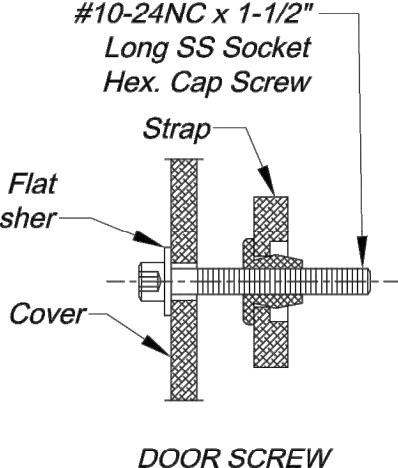
POST TOP LUMINAIRE

150 Watt HPS

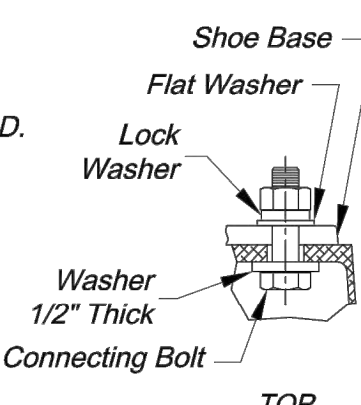


SHOE BASE

CONNECTING HARDWARE
(4) 1"-8NC x 4" Long Galv.
Hex Head Bolt SAE Gr. 5
(8) 1/2" Galv. Washer 2-3/4" O.D.
(4) 1" Galv. Hex. Nut
(4) 1" Galv. Flat Washer
(4) 1" Lock Washer



DOOR SCREW



TOP

BOTTOM

BREAK-AWAY BASE ANCHORAGE

As-Built: "400-90 100,10", "1-80W 1.15% slope", or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



POLE AND LUMINAIRE
DETAILS
STANDARD DRAWING SL-1

Project:

Sheet Name:

Drawn By: JH
Checked By: JW
Date: 08/21/2009

1 OF 5

1

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5600.dwg Layout: 60 Lee's Summit Street Lighting Details 2 of 5 -- Thursday April 06, 2023, 3:46pm -- Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

Lee's Summit Street Lighting Details 2 of 5

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
60	104

Christopher Novosel
Professional Engineer
License No. 2018024421

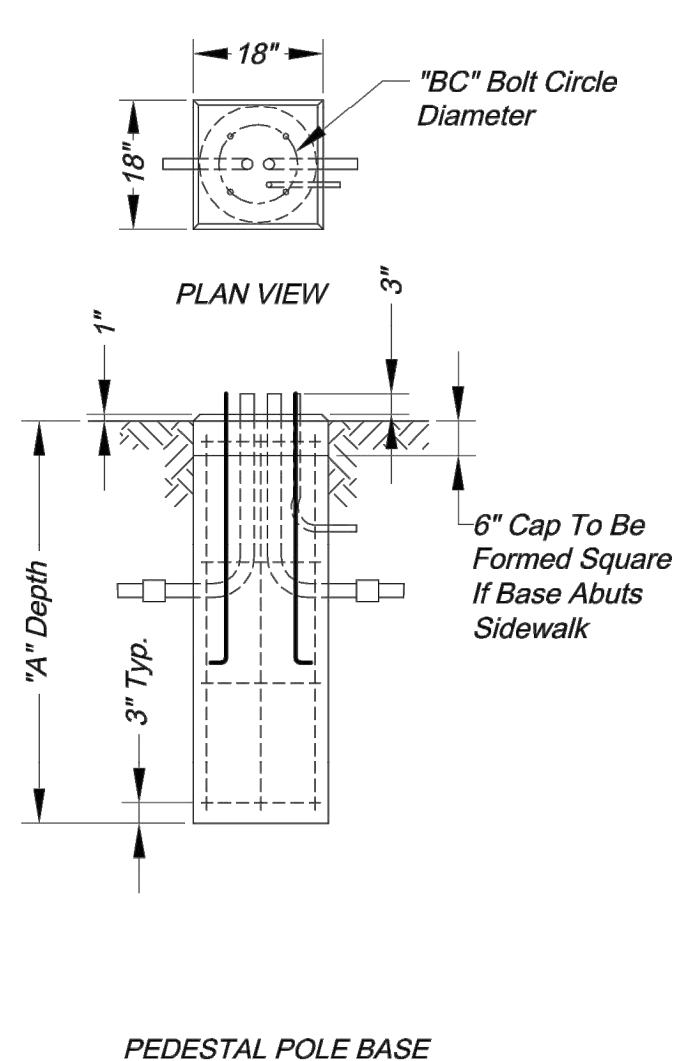
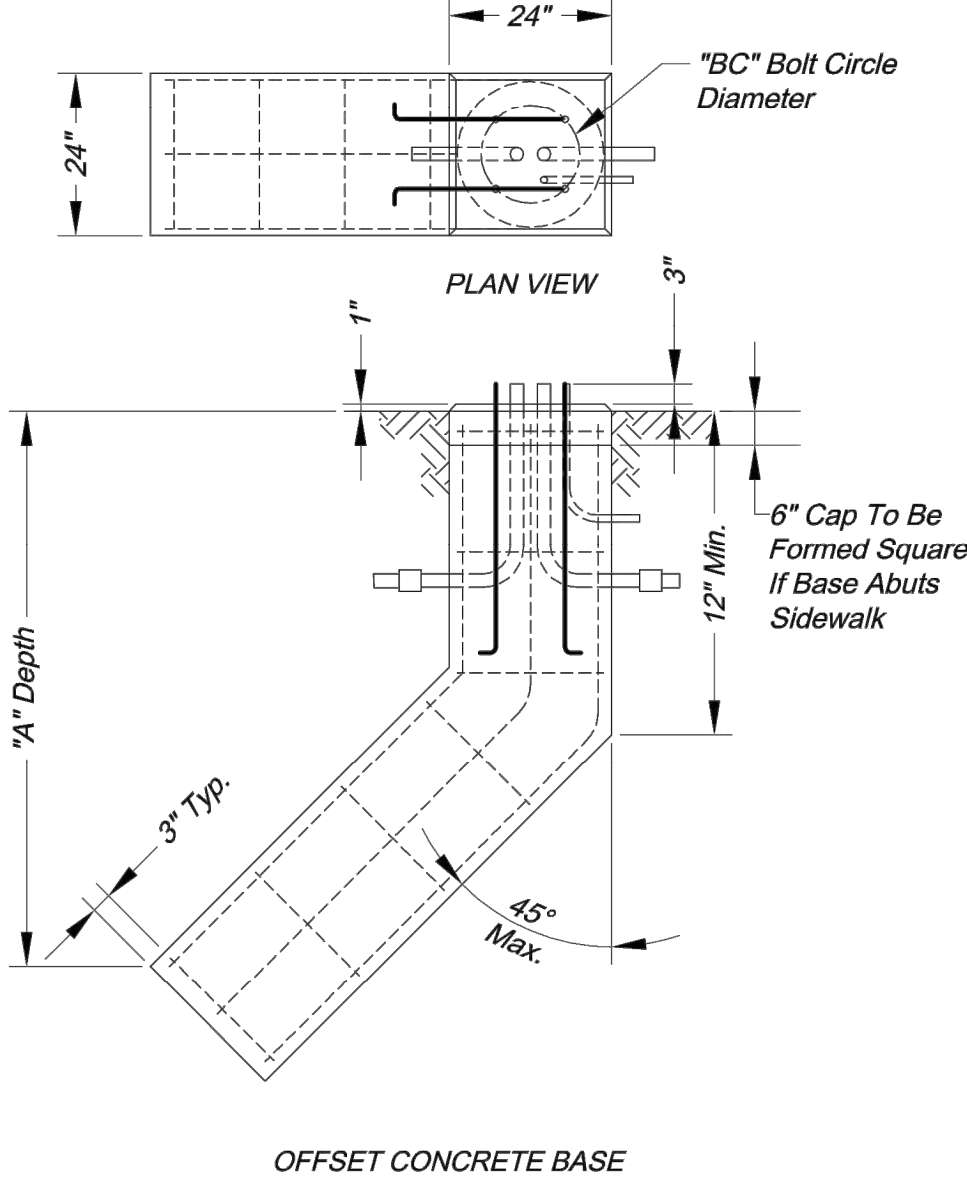
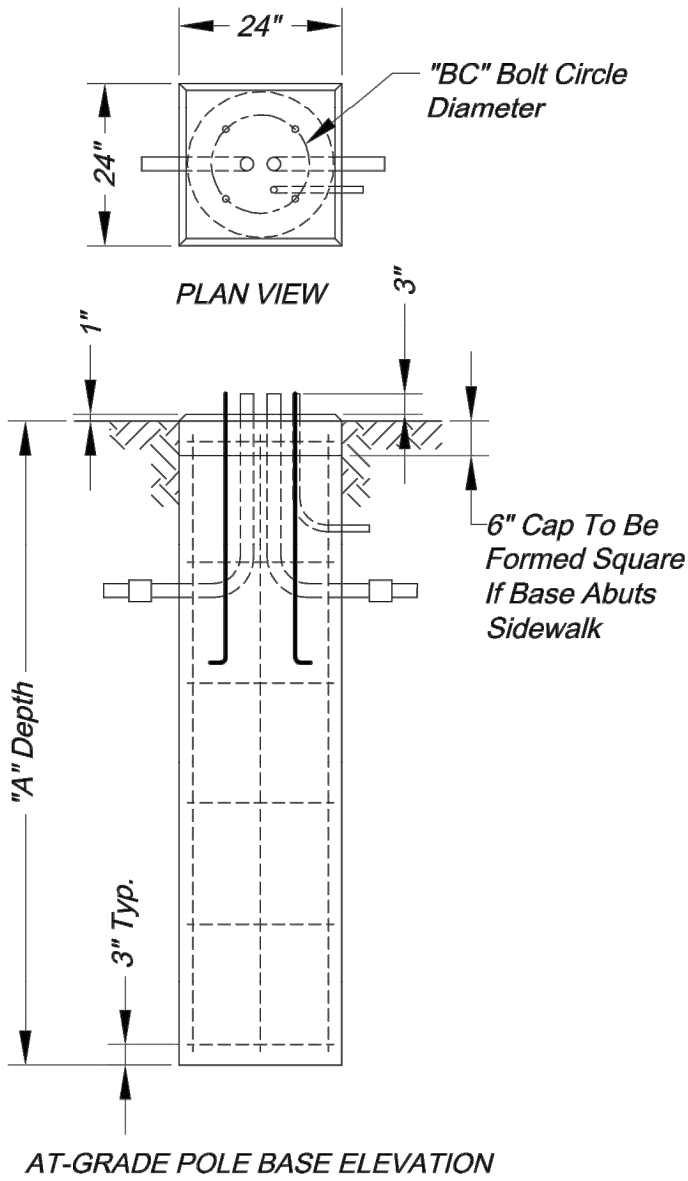
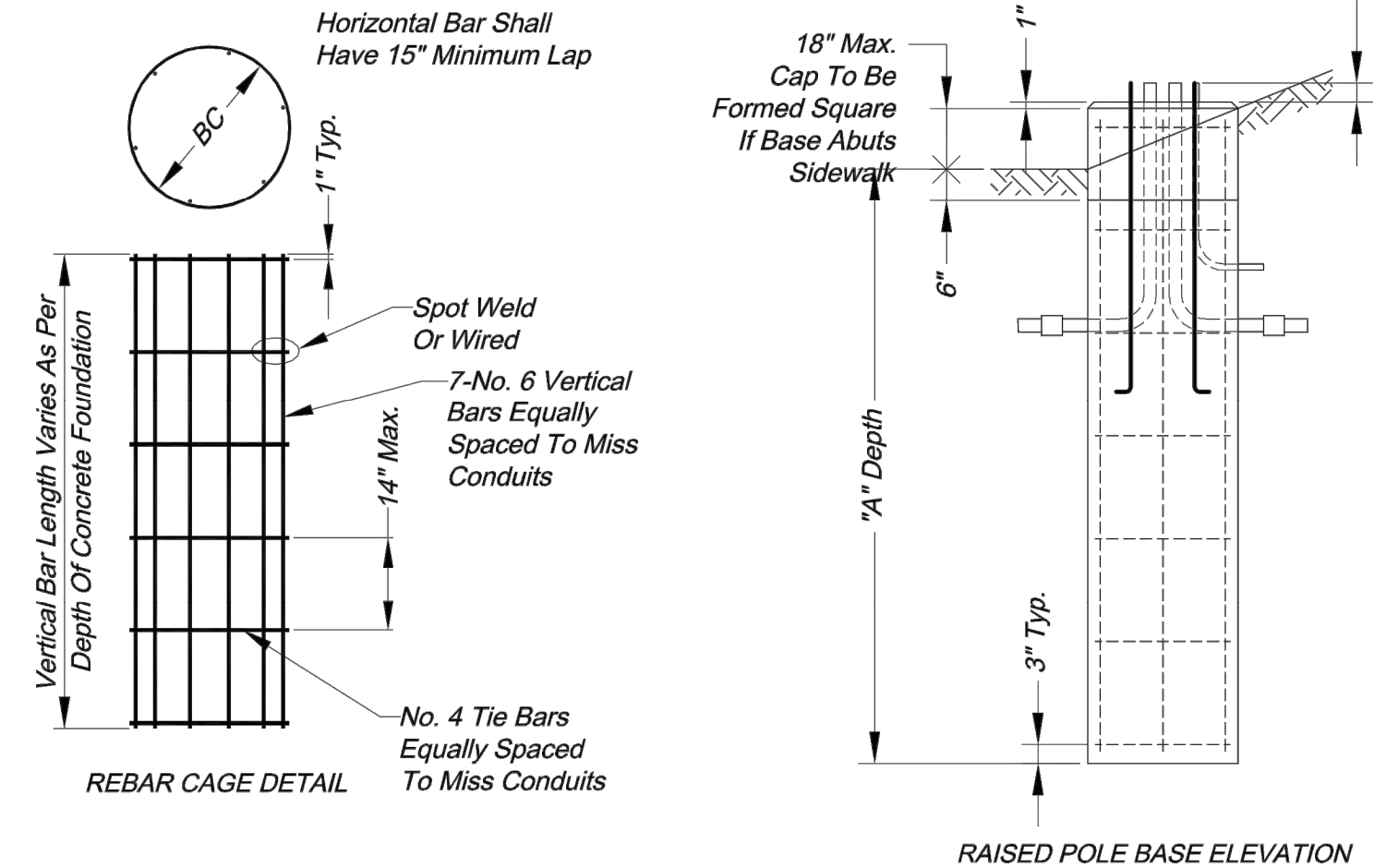
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE
8	6/24/21
10	9/30/22

REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

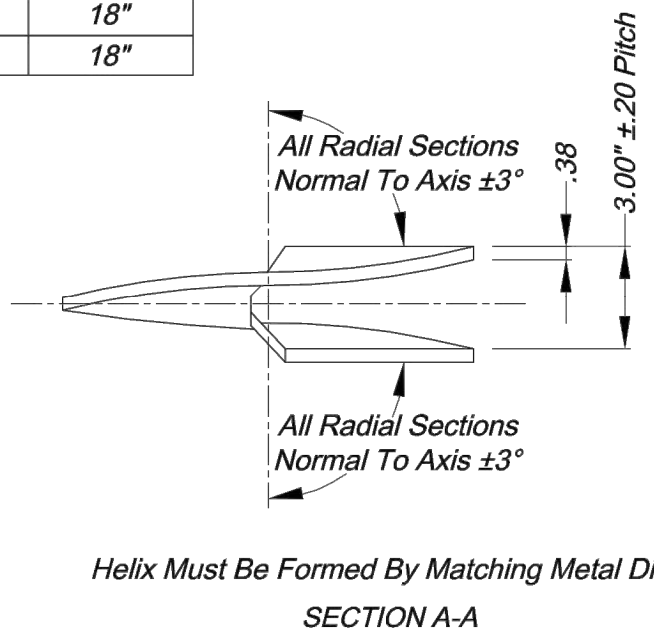
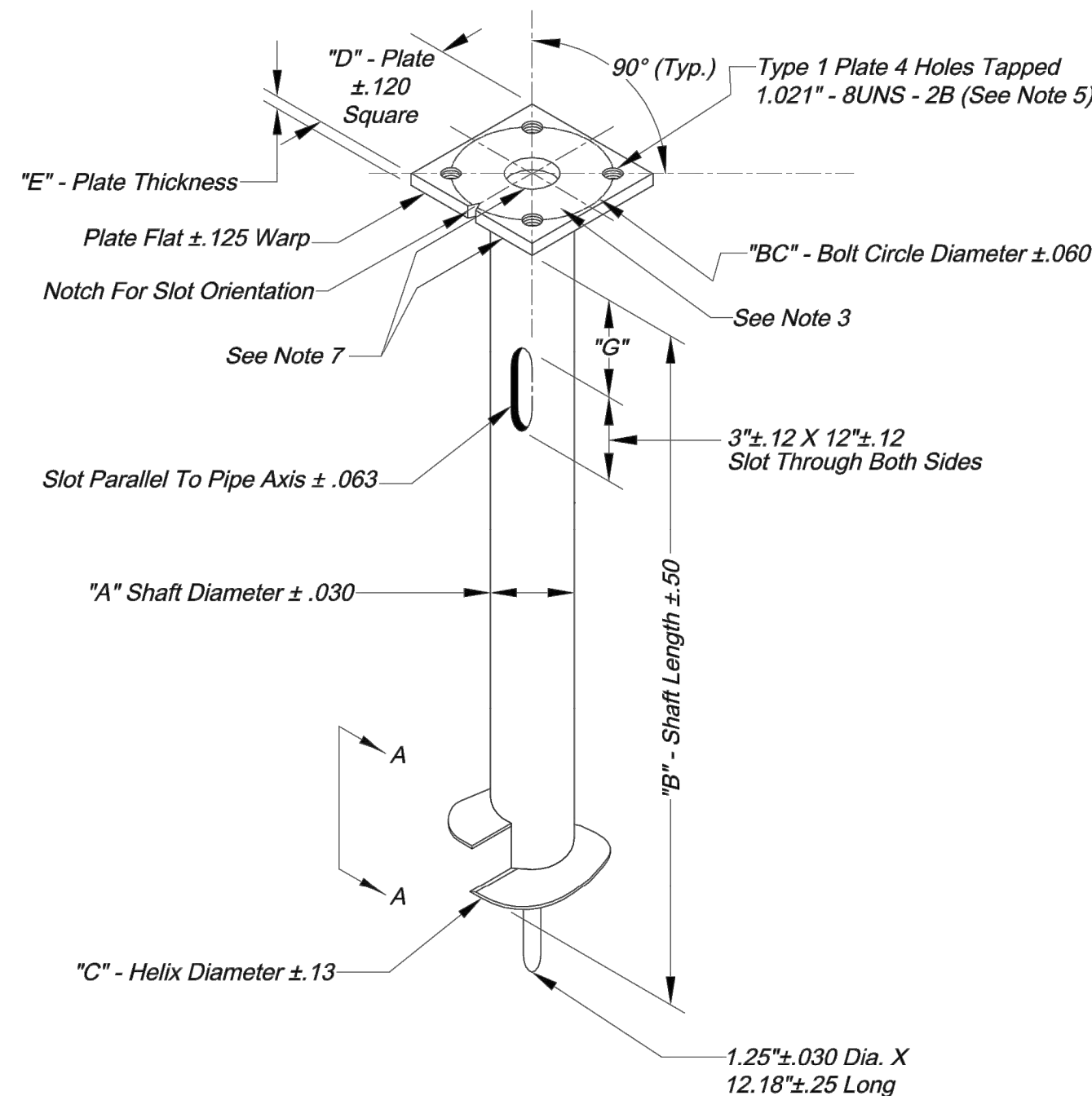
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POLE TYPE	BRACKET ARM	DEPTH (A)	BOLT CIRCLE (BC)
P14	—	48"	9.5"
P30S or P30D	Single or Dual	72"	11.0"
P40S	Single	94"	11.5"
P40D	Dual	94"	14.5"

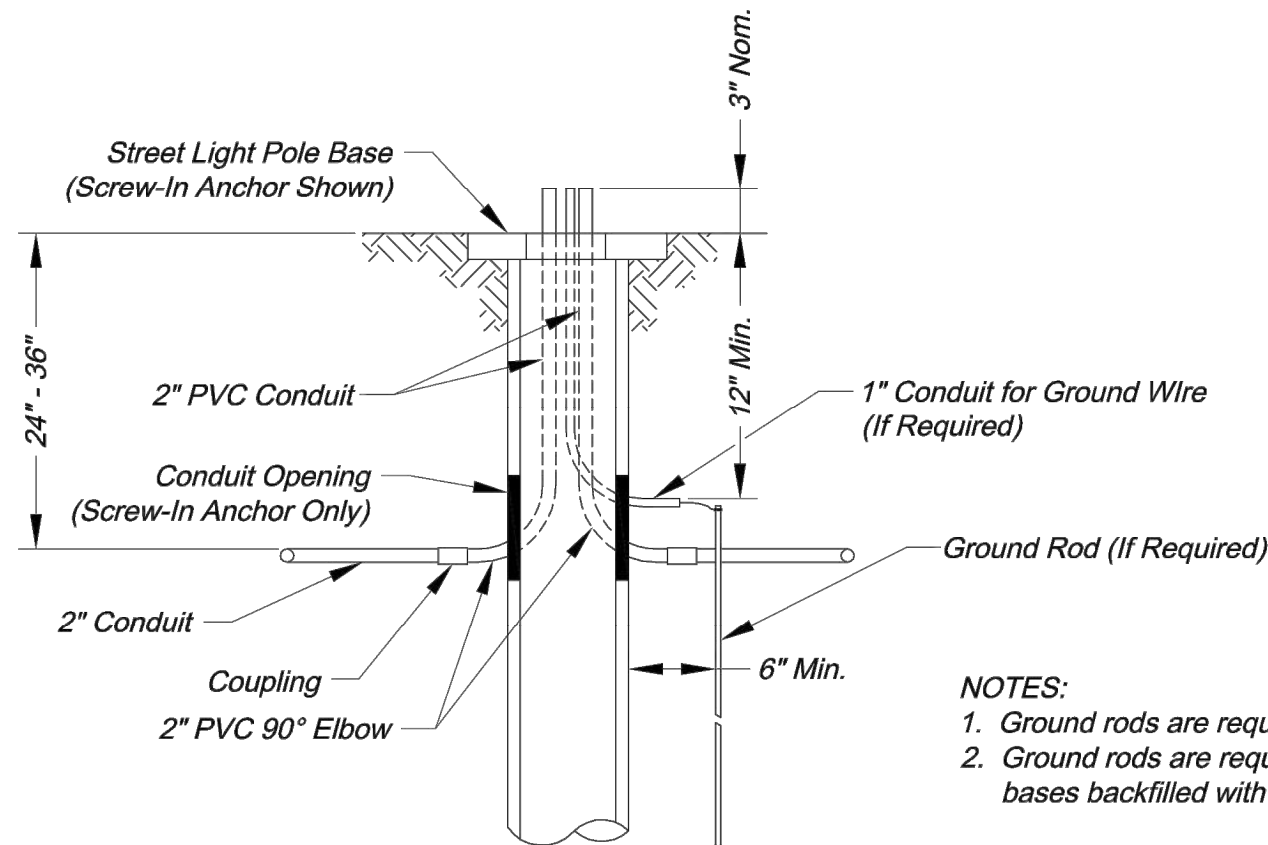


CONCRETE BASE DETAILS

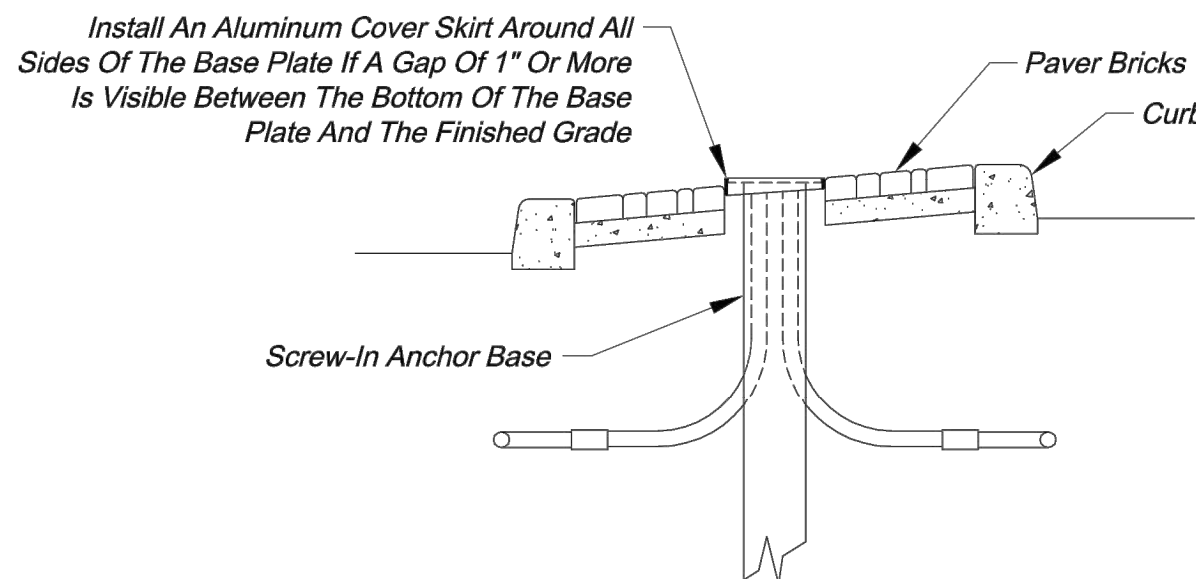
BASE TYPE	POLE TYPE	MINIMUM TORQUE RATING (lbs. ft.)	MAXIMUM TORQUE RATING (lbs. ft.)	SHAFT DIA. (A)	SHAFT LENGTH (B)	HELIX DIA. (C)	PLATE SIZE (D)	PLATE THICKNESS (E)	BOLT CIRCLE (BC)	SLOT LOCATION (G)
B14	P14	2,000	15,000	6"	48"	12"	10"	0.75"	9.5"	12"
B30	P30S & P30D	2,000	15,000	6"	60"	12"	12"	1.0"	11.0"	18"
B40S	P40S	2,000	20,000	8"	60"	14"	12"	1.0"	11.5"	18"
B40D	P40D	2,000	20,000	8"	60"	14"	15"	1.25"	14.5"	18"



- NOTES:
- Finish: Hot dip galvanize per ASTM-A153 (latest revision).
 - Baseplate to be perpendicular to shaft axis (±1°) and hole and concentric (±.188 I.D. Fin) to shaft axis.
 - All bases shall be identified by the manufacturer's initials and the anchor type (1 or 2) permanently stamped into the top plate with 1/2" letters., the Julian date of manufacture shall be permanently stamped in 1/4" numerals.
 - Pilot point and shaft axes to be concentric (±.125 Fin) and in line (±2°).
 - Tap 1" holes on the specified bolt circle perpendicular to the baseplate. Clean and chase the threads after hot-dip galvanizing so that a bolt may be installed.
 - Preheat (room temperature 70°F), tumbleblast, handgrind, and clean baseplate, helix, and core on all weld areas.
 - Flame cut irregularities permissible:
(1) Valleys not to exceed 3/32 in. below nominal surface level.
(2) Peaks or positive irregularities not to exceed 1/32 in. above nominal surface level or intersections of nominal surfaces.
 - Manufacturer to have in effect industry recognized written quality control for all materials and manufacturing processes.
 - All material is to be new, unused and mill traceable meeting the following specifications:
Baseplate: ASTM A36-(latest revision) hot rolled steel plate (conform to AASHTO technical bul. #270).
Steel pipe piles, seamless or straight welded, grade 2 per ASTM A252. Alternate material: pipe type E or S, grade B per ASTM A53.
Helix: ASTM A635-(latest revision) hot rolled steel plate
Pilot Point: ASTM A575-(latest revision) hot rolled steel
Bolt: ASTM A325 or Grade 5 SAE J429 - 1" diameter hot dip galvanized hex head bolt. Bolt shall include one each lock and flat washer.
 - The design and performance integrity of the foundation shall be verified by full-scale tests by qualified engineers independent of the manufacturer. Certified test reports shall be provided upon request.
 - Flame cut notch or projection will be on the base plate to indicate slot orientation.



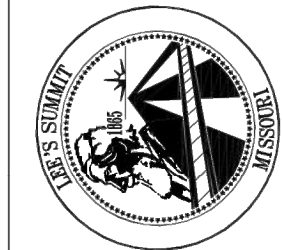
CONDUIT ENTRANCE AND GROUNDING



COVERSKIRT REQUIREMENTS

SCREW-IN ANCHOR BASE DETAILS

CITY OF LEE'S SUMMIT
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ENGINEERING DIVISION
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LEE'S SUMMIT, MISSOURI 64063
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POLE BASE DETAILS
STANDARD DRAWING SL-2

Project:

Sheet Name:

Drawn By: JH

Checked By: JW

Date: 08/21/2009

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Lee's Summit Street Lighting Details 3 of 5

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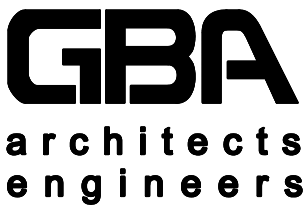
Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING



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DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
61	104

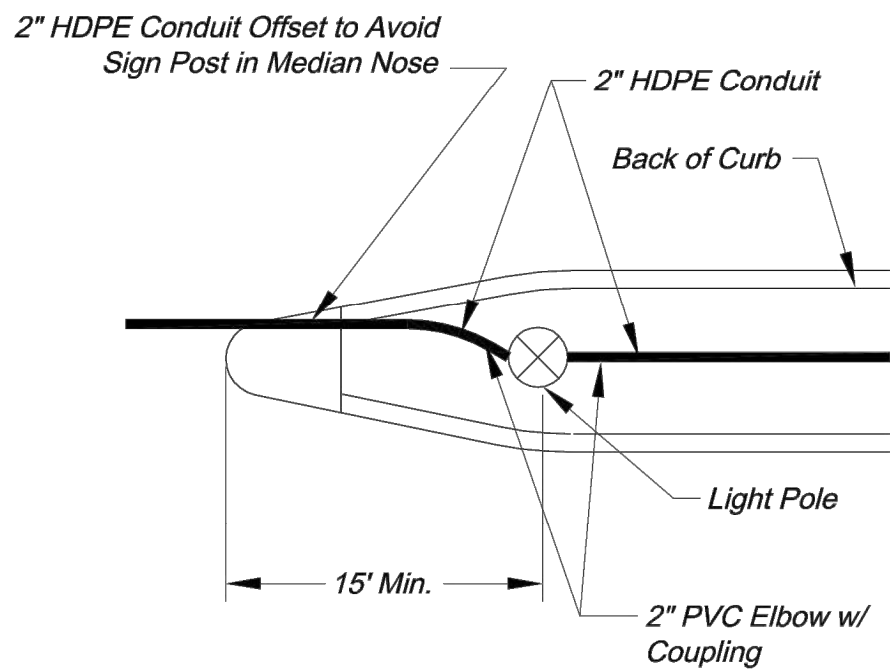
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Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

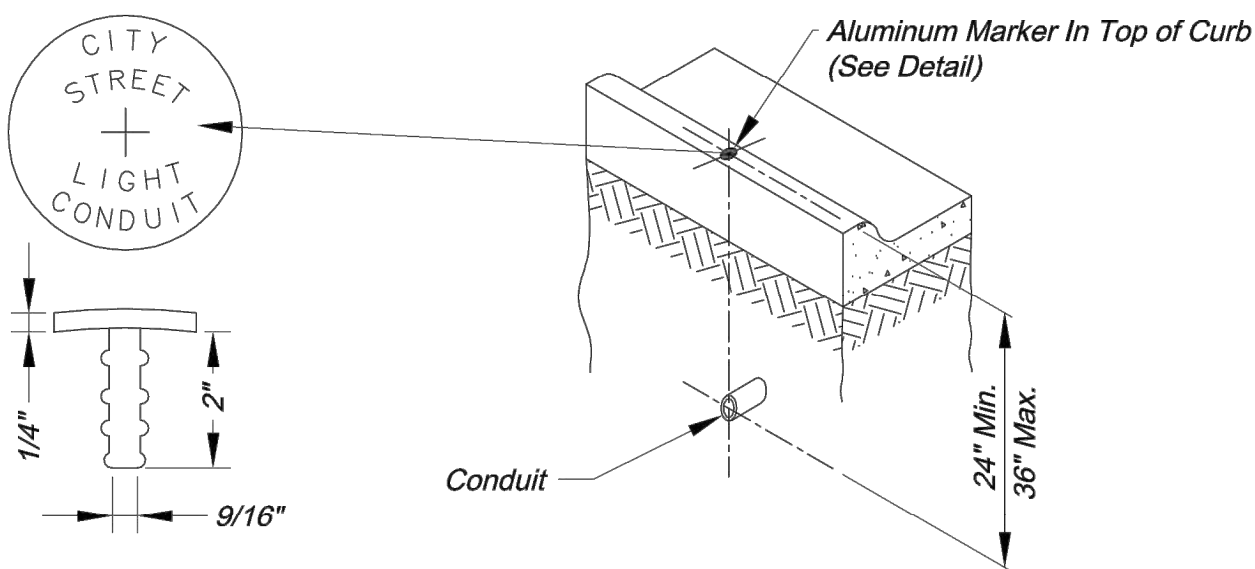
NO.	DATE
8	6/24/21
10	9/30/22

REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

As-Built: "400-00 100.10", "3-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

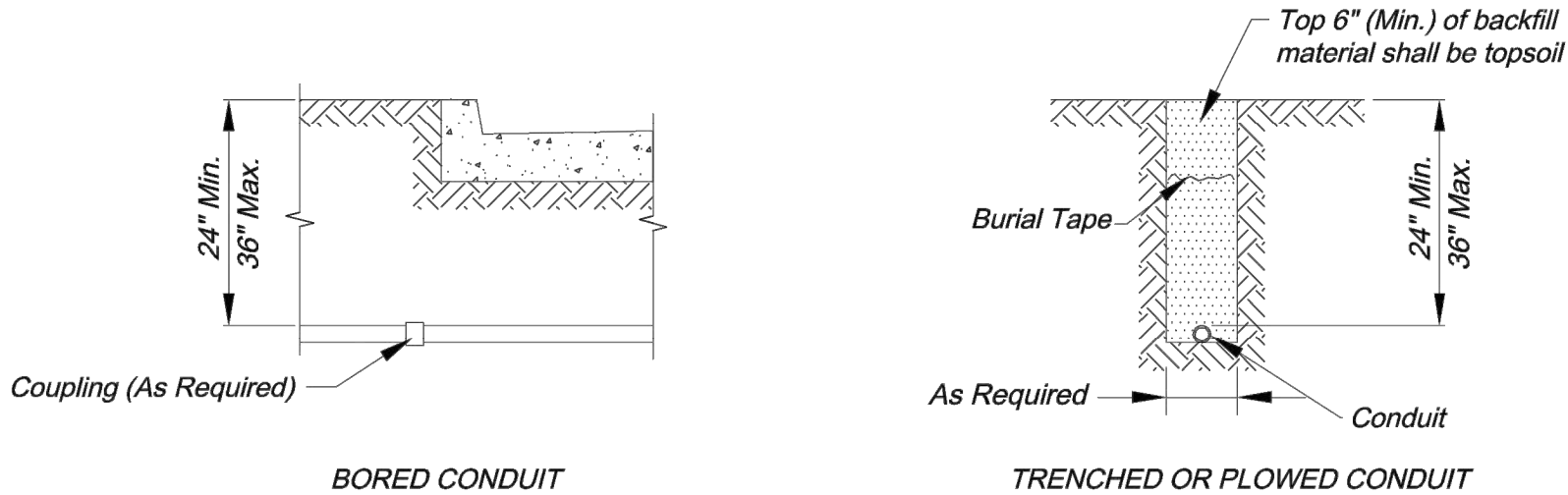


STREET LIGHT POLE
IN MEDIAN



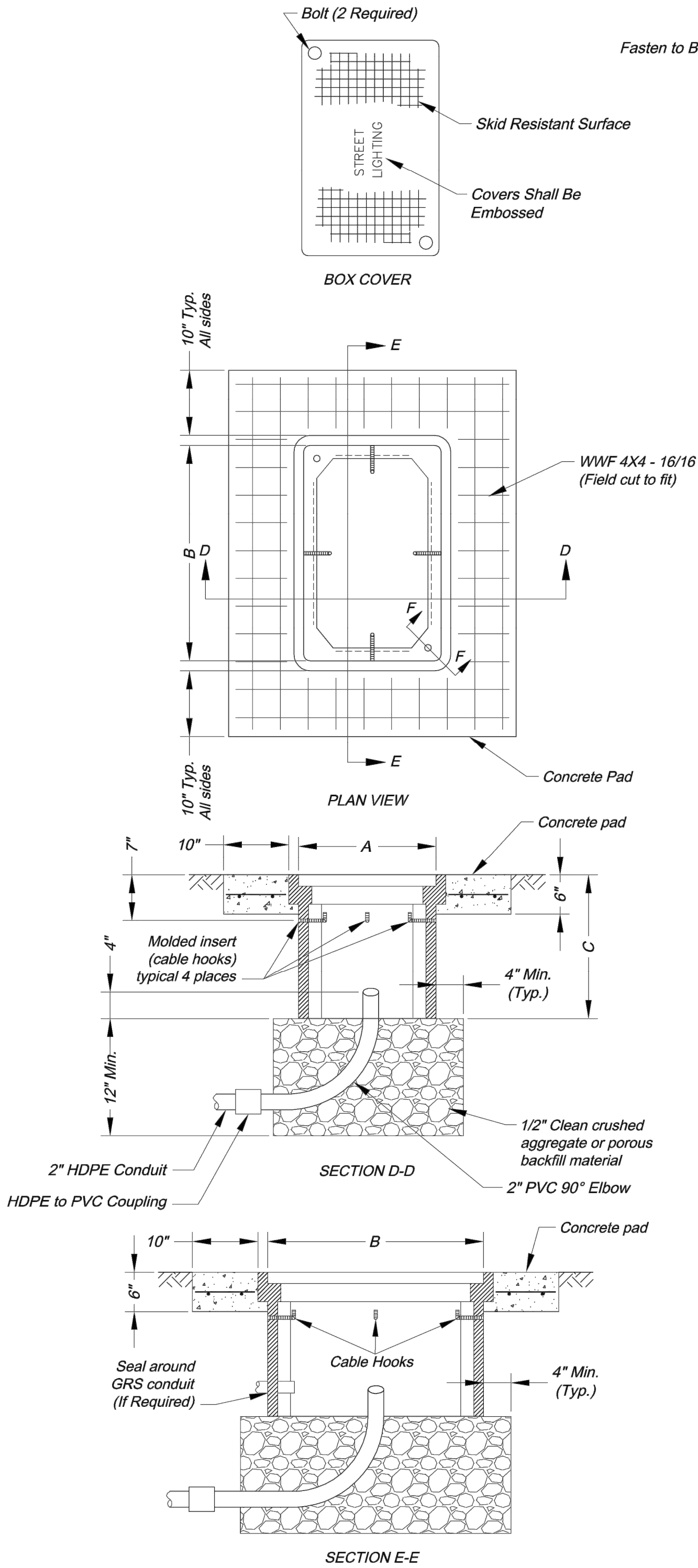
CONDUIT MARKING DETAIL

- NOTES:
1. An aluminum marker shall be placed in the top of the curb directly over the conduit.
 2. Markers shall be installed by drilling the curb and epoxying the marker in place. If installed in a sidewalk or curb ramp, the top of the marker shall be flush with the concrete surface.
 3. No direct payment shall be made for conduit markers; they are subsidiary to the installation of conduit.

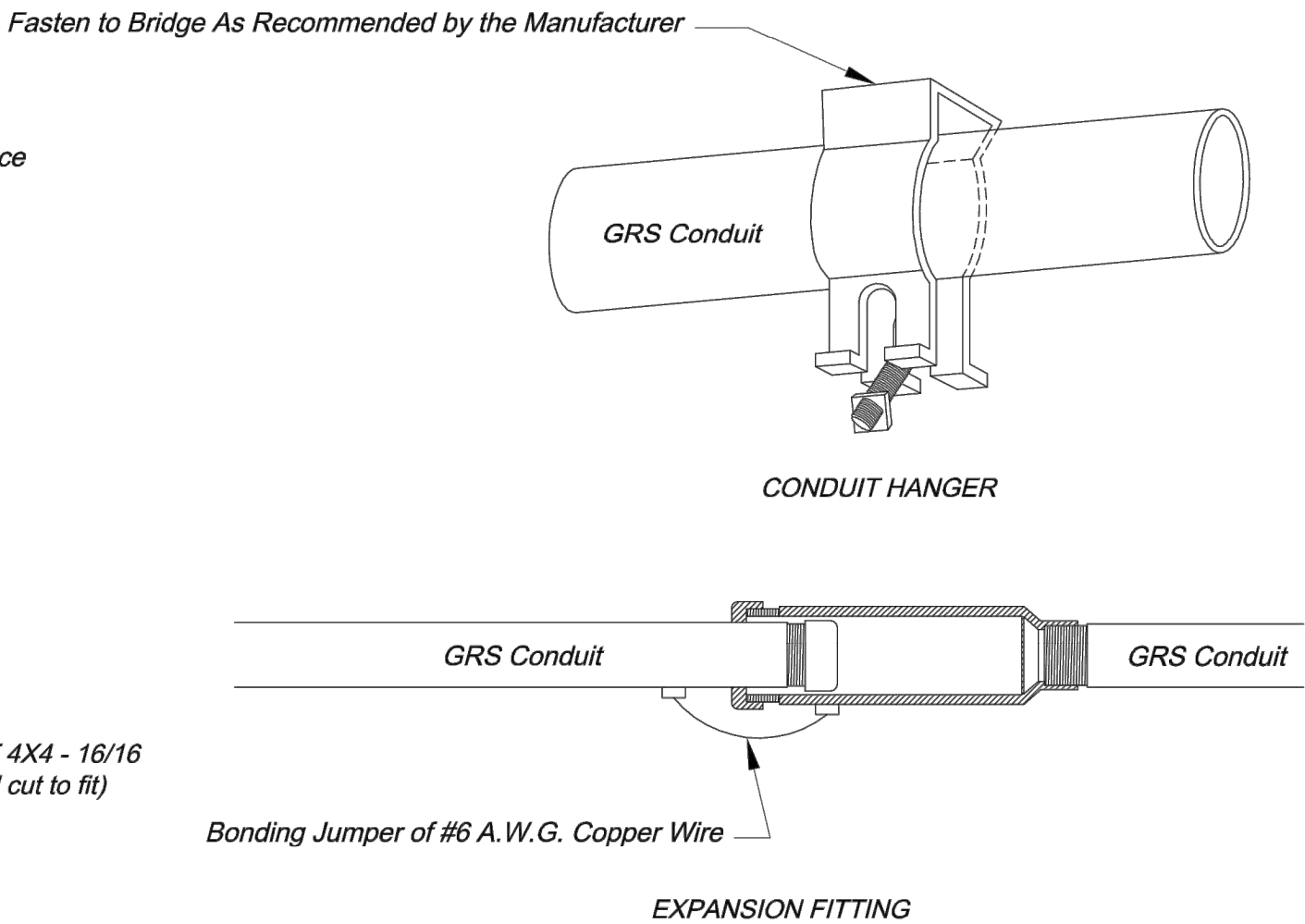


CONDUIT LOCATIONS

- NOTES:
1. Backfill under paved surfaces shall be flowable fill.
 2. The conduit shall not be covered unless inspected and approved by the City Engineer, so as to ensure proper depth, correct conduit material, and proper conduit end treatment.



PULL OR JUNCTION BOX DETAILS

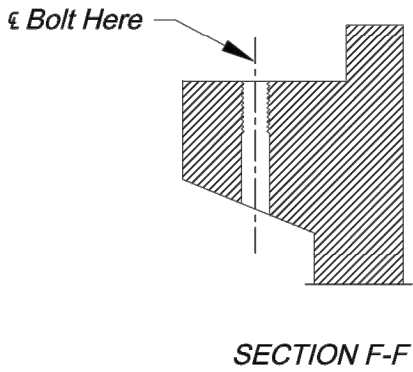


GRS CONDUIT DETAILS

- NOTES:
1. All conduits installed above ground shall be GRS.
 2. Conduit attached to bridges shall have expansion fittings installed at each end of the bridge and at each expansion joint on the bridge.
 3. All GRS conduits shall be electrically bonded by a grounding bushing and ground wire as detailed.
 4. Install the conduit and connector assembly to permit a 1/2-inch minimum longitudinal travel in either direction.

Number of Entering/Exiting Conduits	Box Type	Minimum Box Dimensions		
		A	B	C
1 - 2	Type 1 Junction Box	12"	12"	12"
3 - 4	Type 2 Junction Box	12"	18"	12"
> 4	Class 1 Pull Box	17"	30"	22"

All dimensions shown are nominal



SECTION F-F

- NOTES:
1. Lift opening required on all covers.
 2. Preformed box walls may be either flared or vertical. The bottom of boxes shall be open to below.
 3. If an extension is used with a preformed box, the lip of the extension may be interior or exterior. The extension shall be compatible and from the same manufacturer.
 4. Cable hooks are to be included with Class 1 Pull Boxes only.
 5. A Class 1 Pull Box shall be installed adjacent to each 4-Circuit Power Supply.

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BOX AND CONDUIT DETAILS

STANDARD DRAWING SL-3

Project:

Sheet Name:

Drawn By: JH
Checked By: JW
Date: 08/21/2009

3 OF 5

3

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Lee's Summit Street Lighting Details 4 of 5

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
62	104

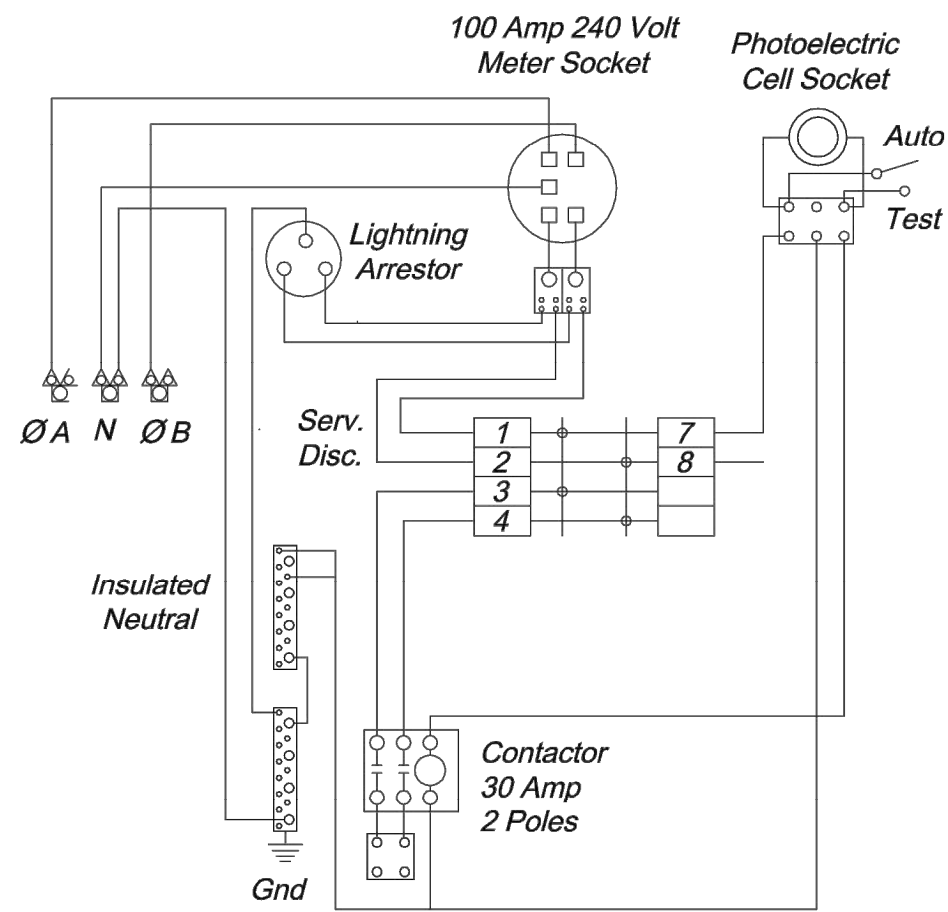
Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

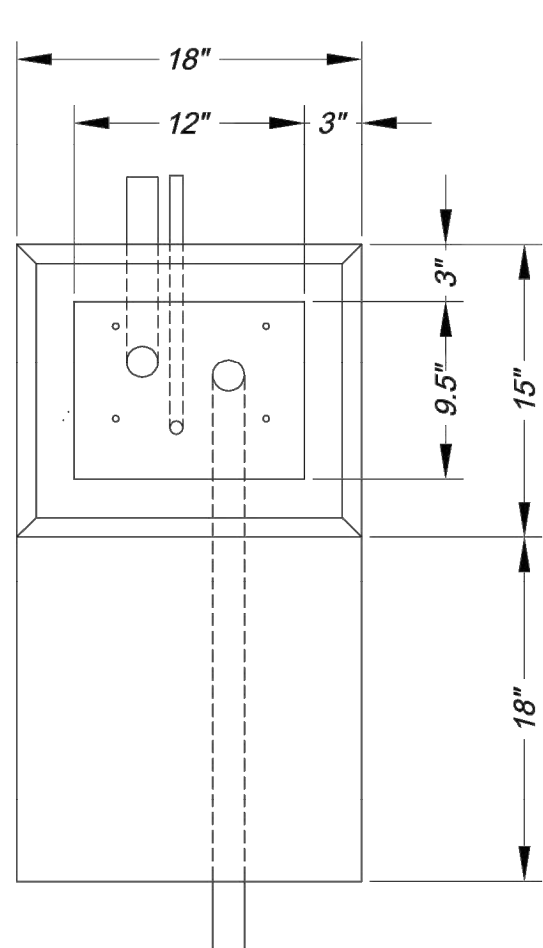
NO.	DATE
8	6/24/21
10	9/30/22

REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

As-Built: "400-90 100.10" "1-80% 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

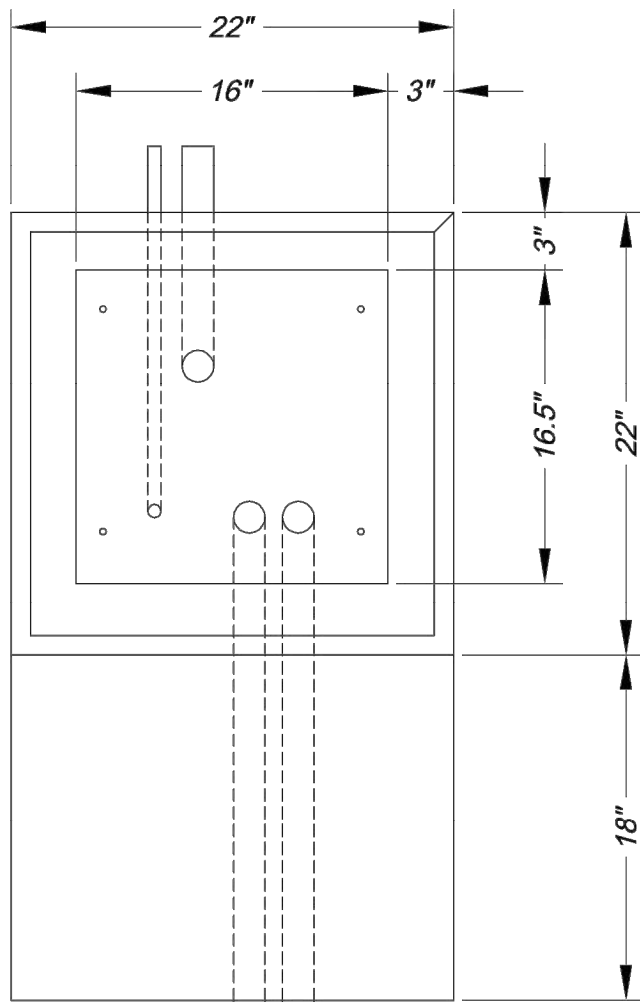


WIRING SCHEMATIC

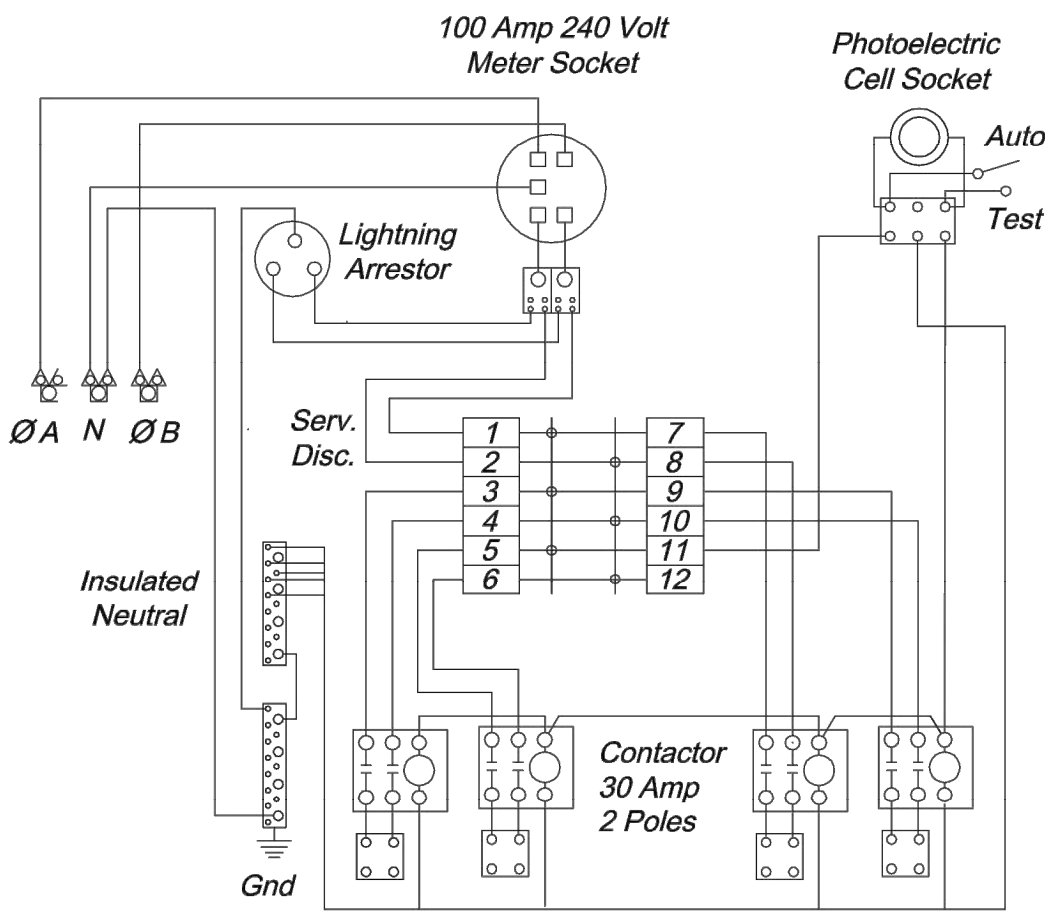


PLAN VIEW

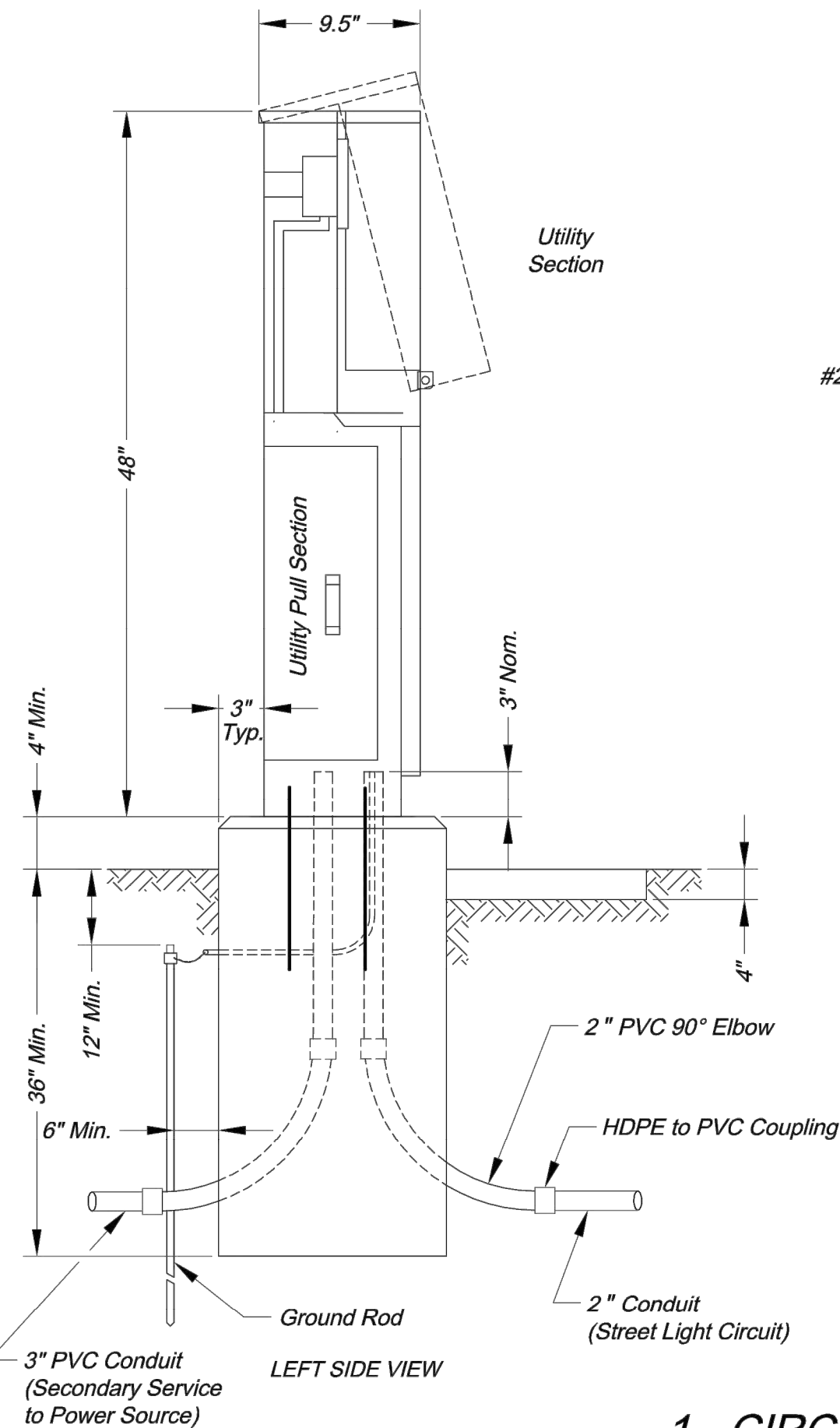
FUSED CONTACTORS ARE NOT PERMITTED



PLAN VIEW

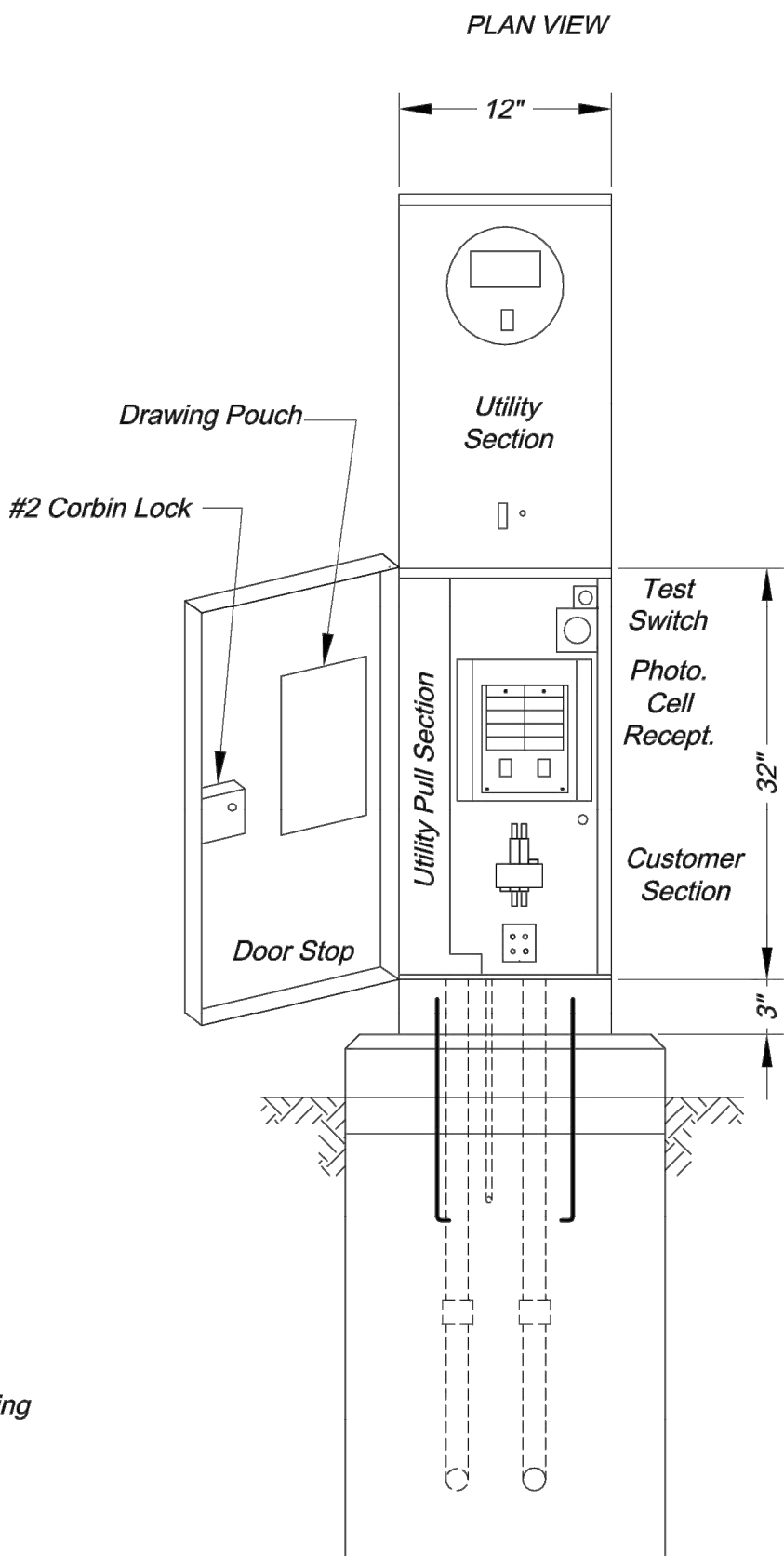


WIRING SCHEMATIC



LEFT SIDE VIEW

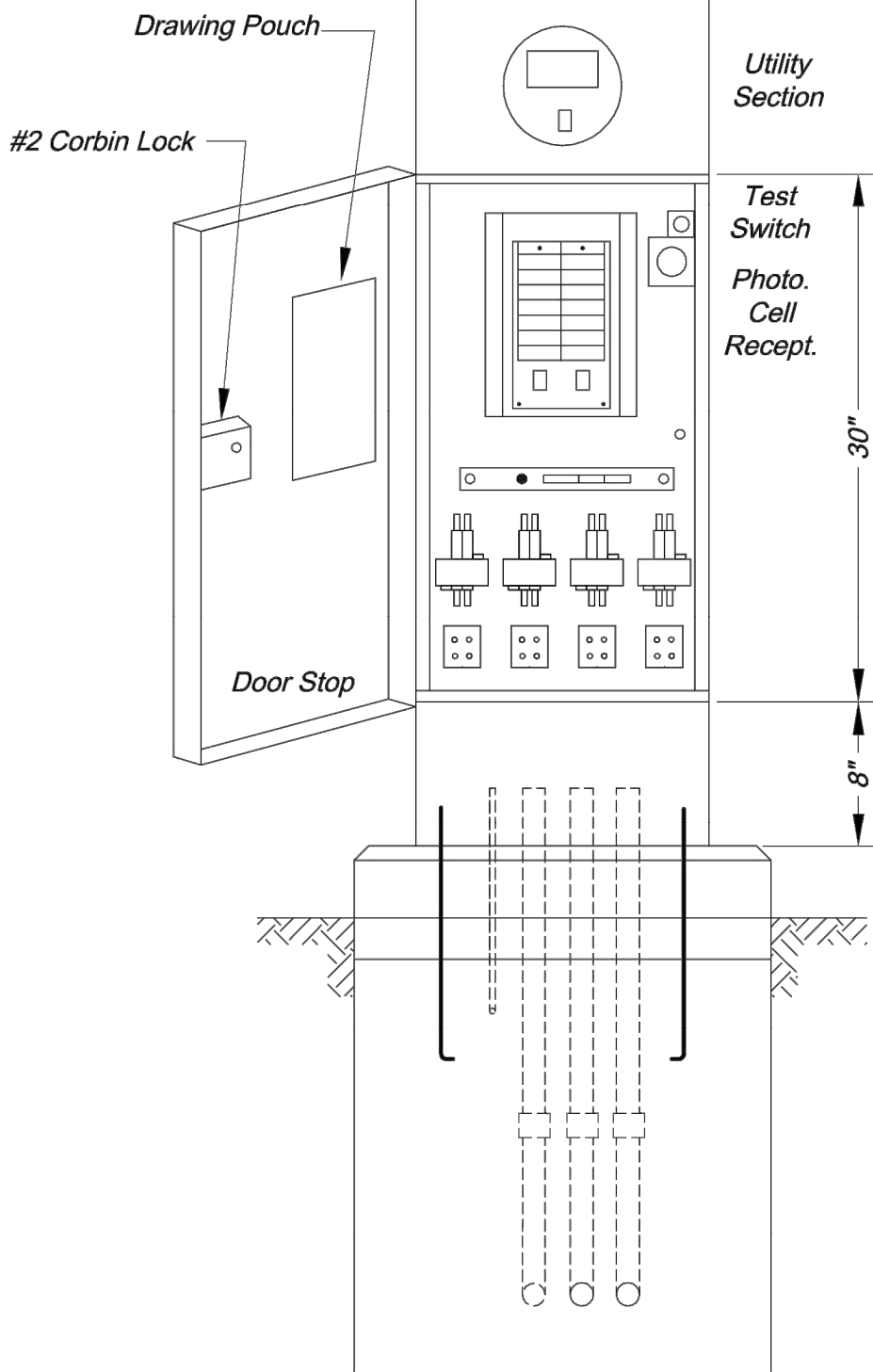
1 - CIRCUIT
POWER SUPPLY



FRONT VIEW

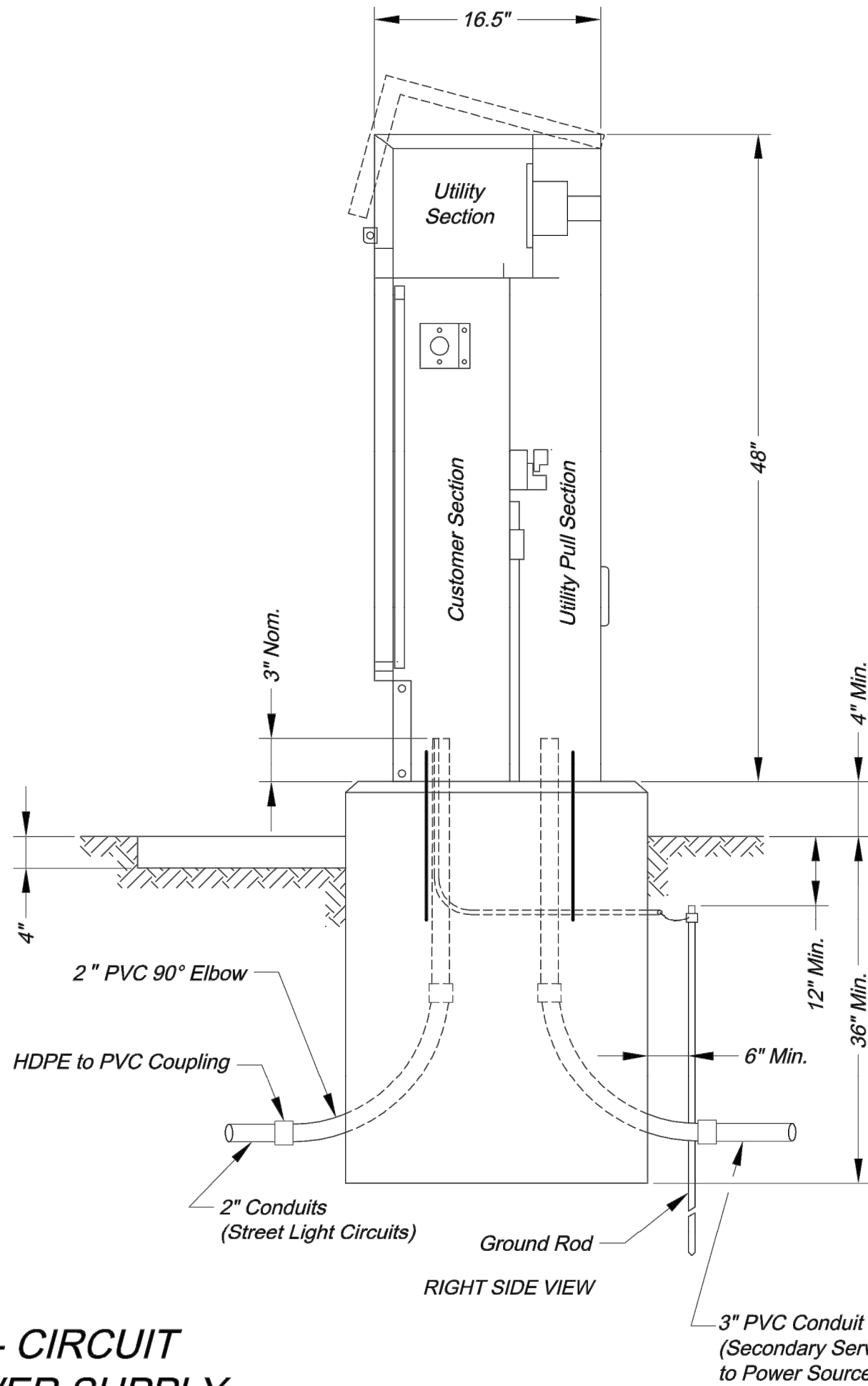
NOTES:

1. Photoelectric cell should be oriented to the north or east.
2. Seal around joint between cabinet and base with lifetime silicone caulk.
3. All exposed edges of the base should have a 1" chamfer
4. If base is adjacent to a traffic signal controller, raised portion of base (above finished grade) should be constructed to the same height as the signal controller base.
5. The street address with the power supply number below it should be labeled on the upper portion of the cabinet facing the street. The City will supply stickers for the Contractor to install.



FRONT VIEW

4 - CIRCUIT
POWER SUPPLY



RIGHT SIDE VIEW

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POWER SUPPLY DETAILS

STANDARD DRAWING SL-4

Project:

Sheet Name:

Drawn By: JH
Checked By: JW
Date: 08/21/2009

4 OF 5

4

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

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DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
63	104

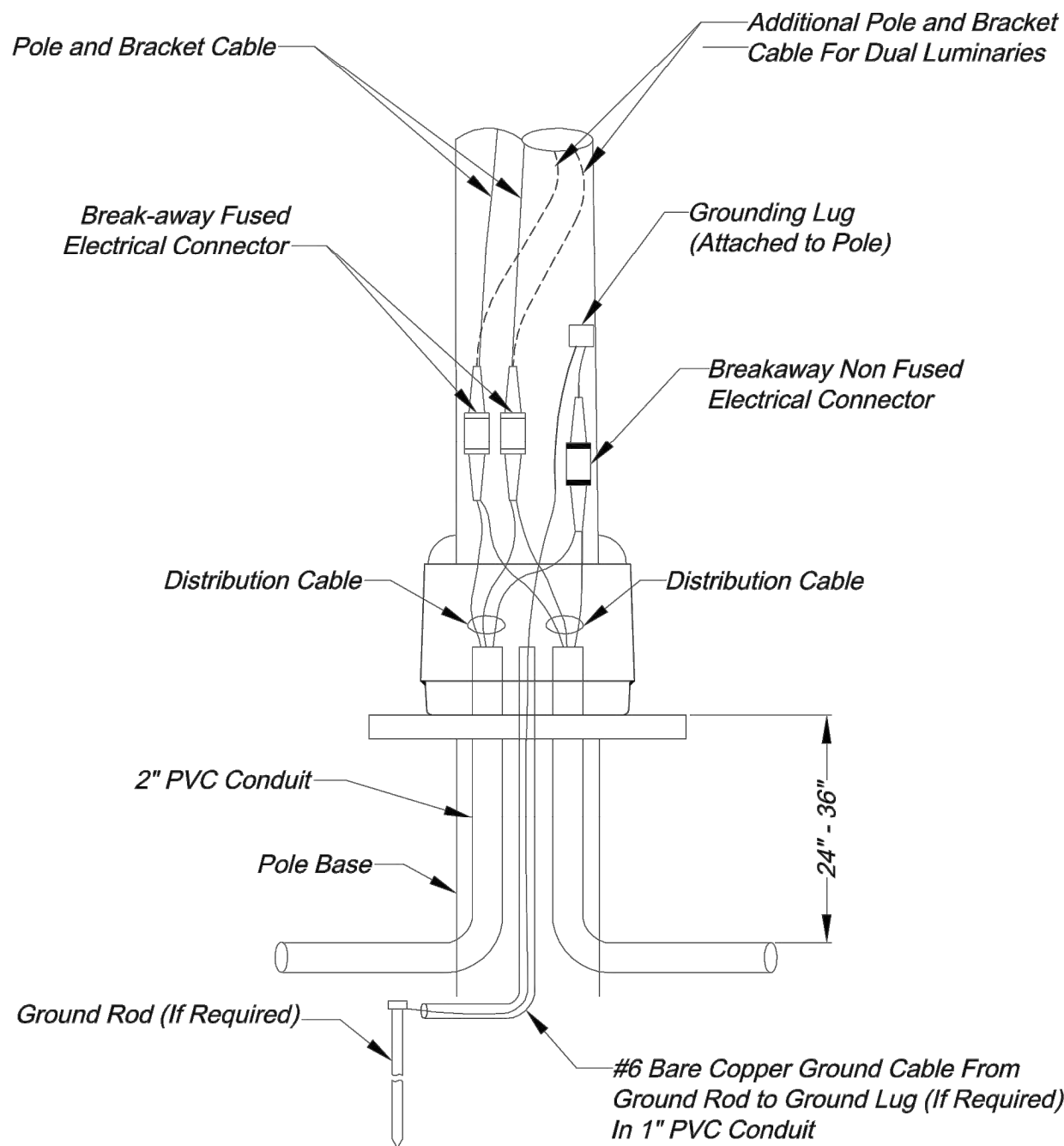
Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

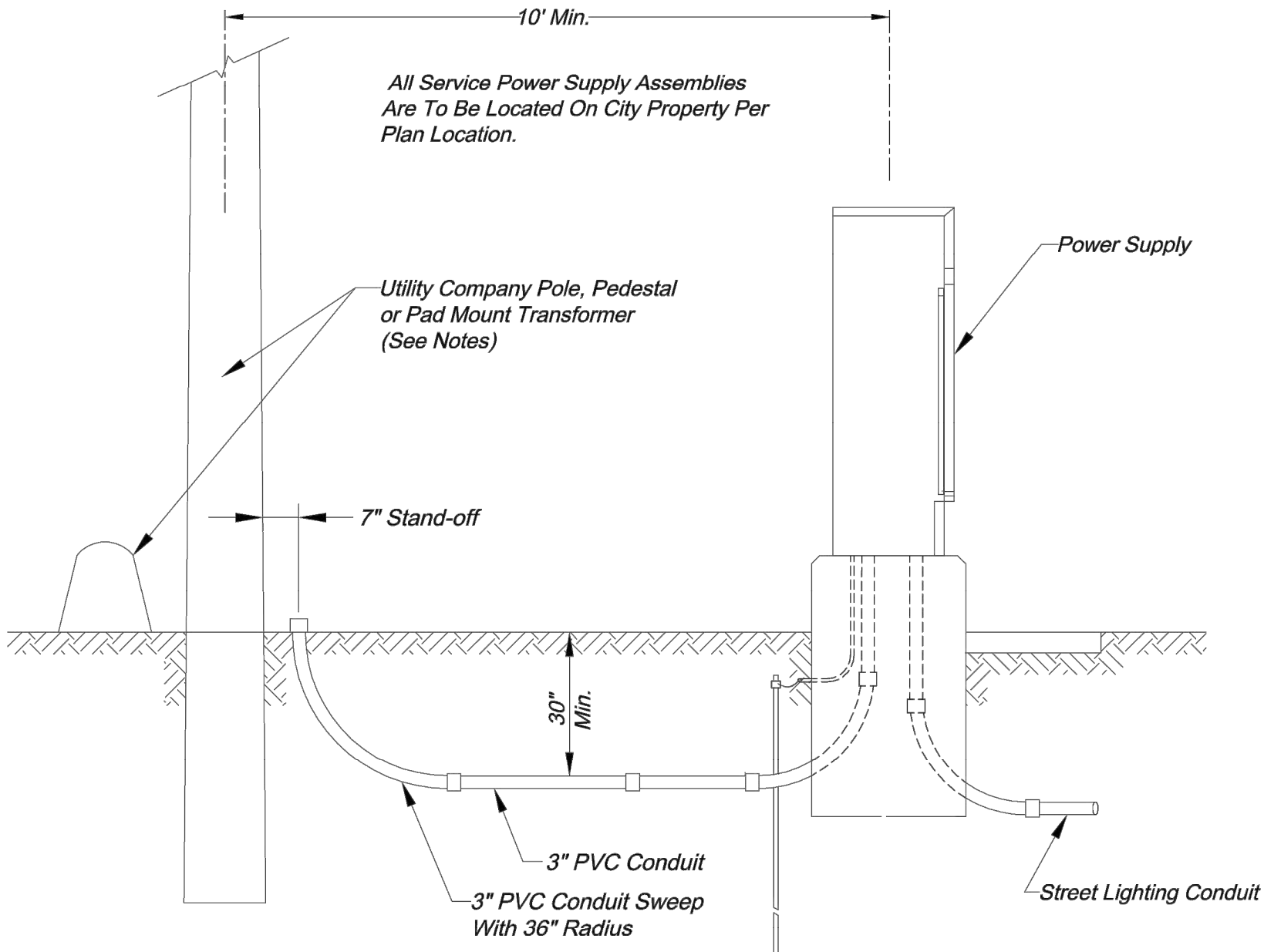
NO.	DATE
8	6/24/21
10	9/30/22

REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

As-Built: "400-90 100.10" "3-00% 1.15% slope" or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

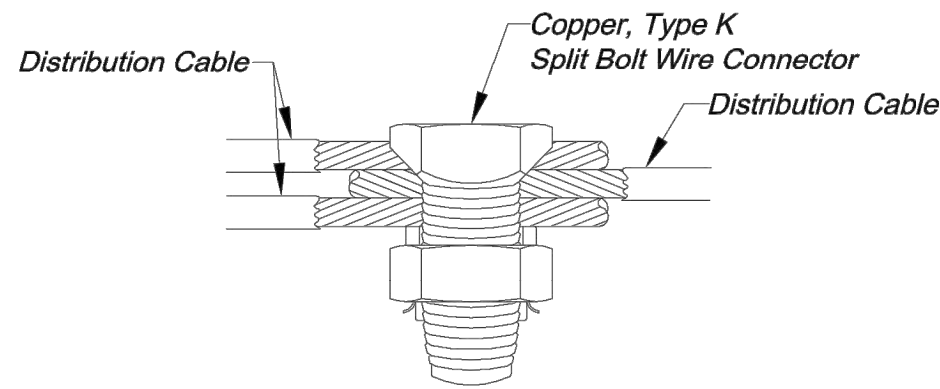


POLE WIRING DETAILS



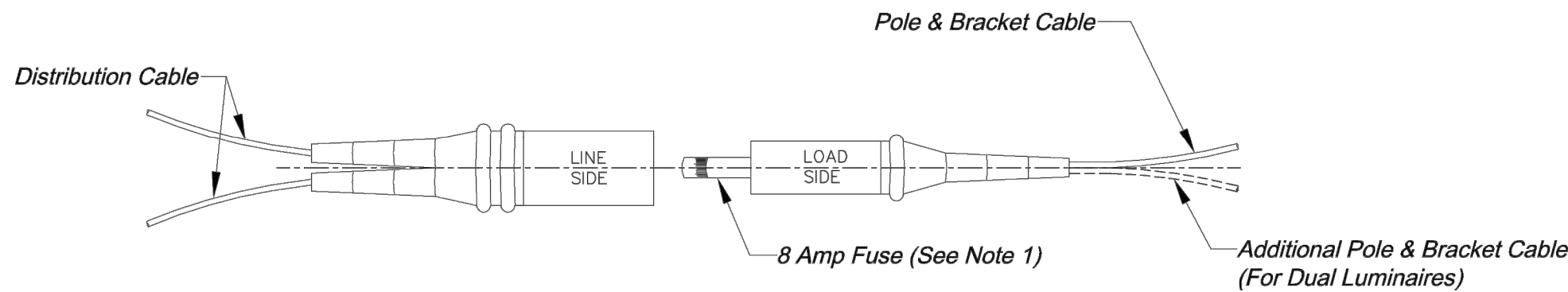
SECONDARY SERVICE CONNECTION DETAILS

- NOTES:
- Contractor shall install a conduit stub 24" to 6" above ground at utility poles. Conduit shall be stubbed to the side of the pole that will allow a direct run up the pole to the transformer without crossing other utility lines or cables. The end of the conduit shall be capped.
 - Contractor shall install conduit in a trench to within 24" of pedestals or pad mount transformers and leave a 36" x 36" x 36" access hole in the ground. Contractor shall keep open trench covered and promptly backfill access hole when service is completed.

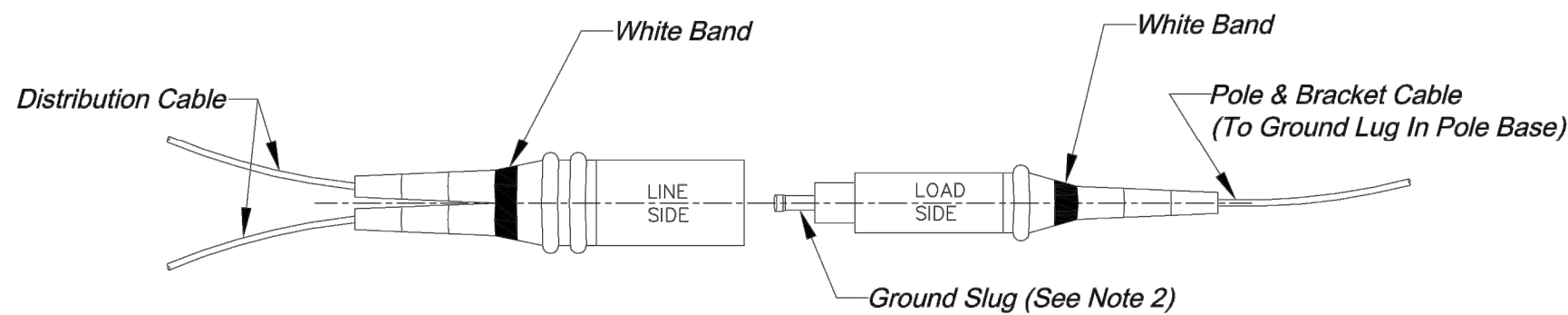


SPLICE KIT DETAILS

- NOTES:
- To be used only in junction or pull boxes where circuits branch or "tee".
 - All splices shall be protected with a resin splice kit (not shown) installed in accordance with the manufacturer's recommendations.

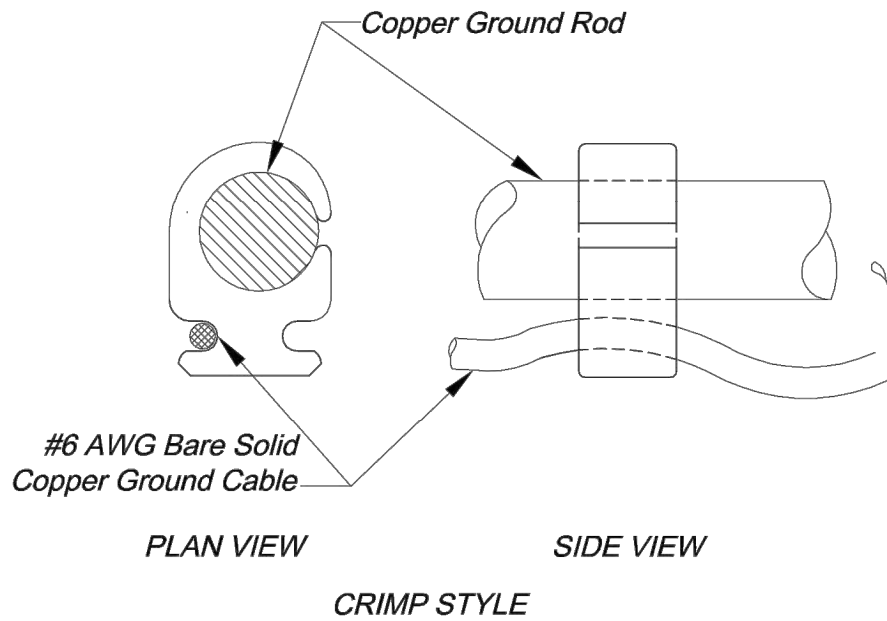
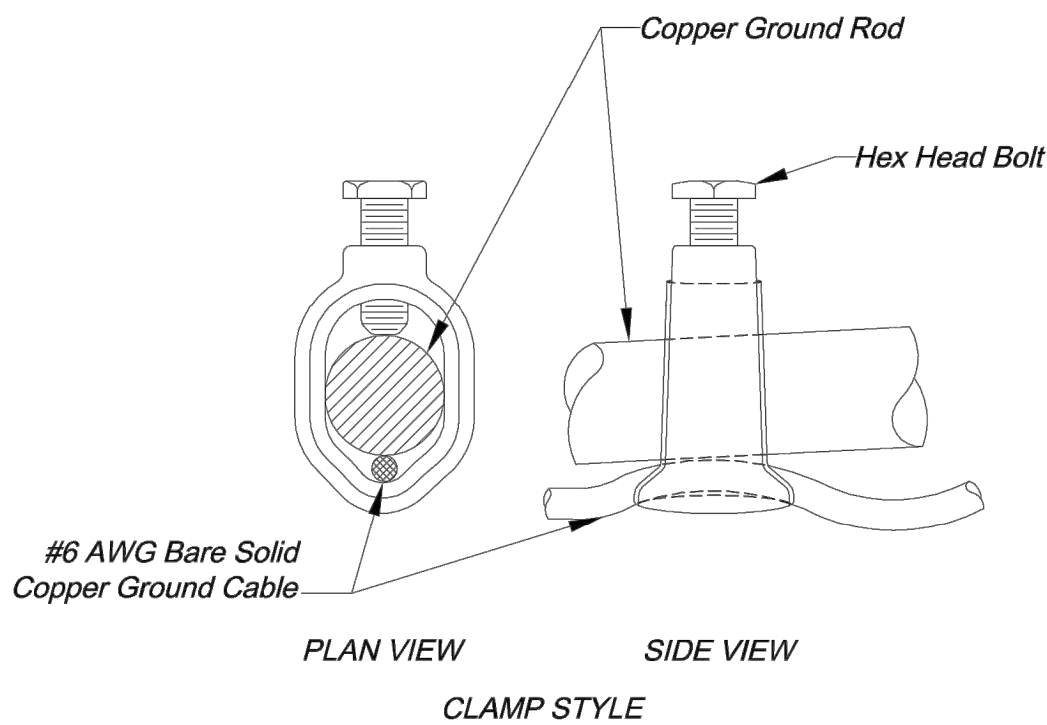


BREAK-AWAY FUSED ELECTRICAL CONNECTORS



BREAK-AWAY NON FUSED ELECTRICAL CONNECTOR

- NOTES:
- Fuse remains in "Load Side" after break-away.
 - Ground "Slug" remains in "Load Side" after break-way.
 - Connectors shall have set screw type terminals to attach cables.



GROUND ROD CONNECTION DETAILS

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PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
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LEE'S SUMMIT, MISSOURI 64063
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ELECTRICAL DETAILS

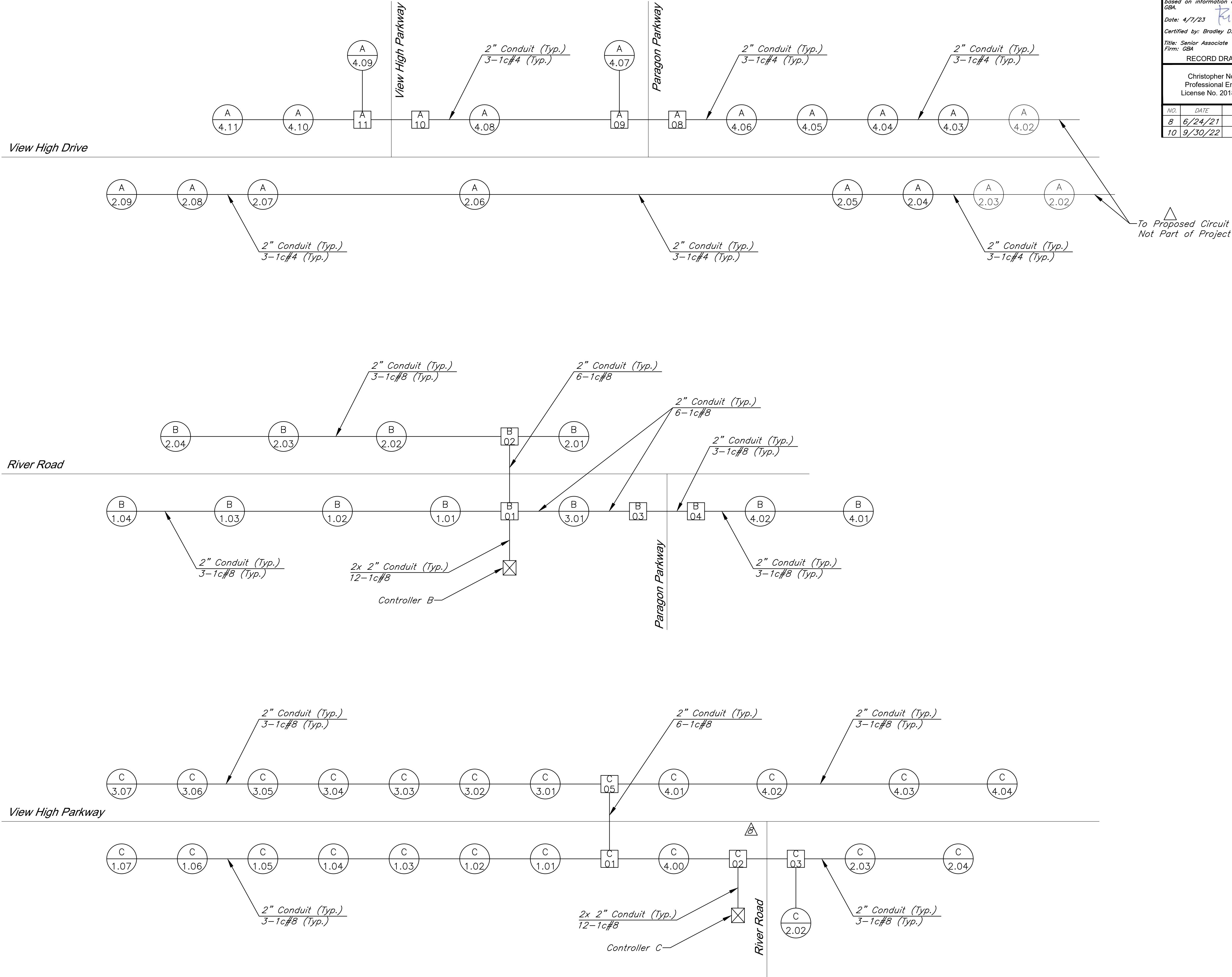
STANDARD DRAWING SL-5

Project:

Sheet Name:

Drawn By: JH
Checked By: JW
Date: 08/21/2009

5 OF 5



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

DATE: 6-25-2020

DESIGN BY: CEL

DRAWN BY: DRV

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
64	104

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Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
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10	9/30/22	Record Drawings		

- LEGEND**
- Controller
 - Circuit/Luminaire Number
 - Junction Box
 - Secondary Service Point
 - Control Center
 - Existing Junction Box
 - Existing Secondary Service Point
 - Existing Control Center
 - Existing Luminaire

Street Lighting Wiring Diagram

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: ECK

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
65	104

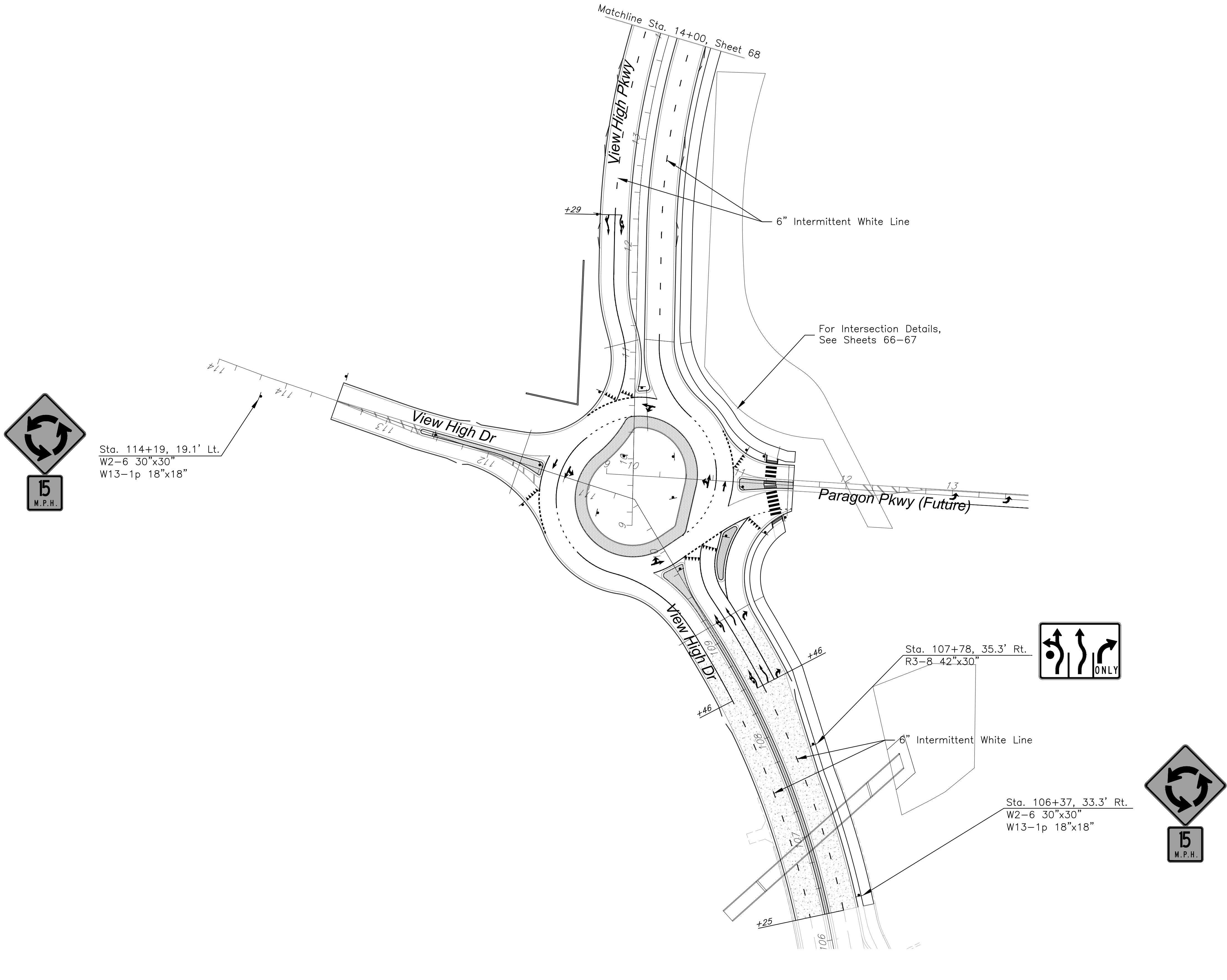
Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-00 100.10" "1.00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



GENERAL NOTES:

All pavement marking within or under the jurisdiction of the City of Lee's Summit shall be preformed thermoplastic for pavement marking symbols, including stop lines, yield lines, diagonal lines, lane use arrows, and crosswalk lines, or high-build paint for longitudinal lines.

All pavement marking within or under the jurisdiction of the City of Kansas City, Missouri shall conform to the latest specifications of the City.

All portions of View High Drive within the City of Lee's Summit but which are maintained by the City of Kansas City, Missouri by executed agreement shall follow the latest specifications of the City of Kansas City, Missouri.

Pavement Marking & Signing Plan View High Drive

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Date: 4/7/23

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Title: Senior Associate

Firm: GBA

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DRAWN BY: ECK

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
66	104

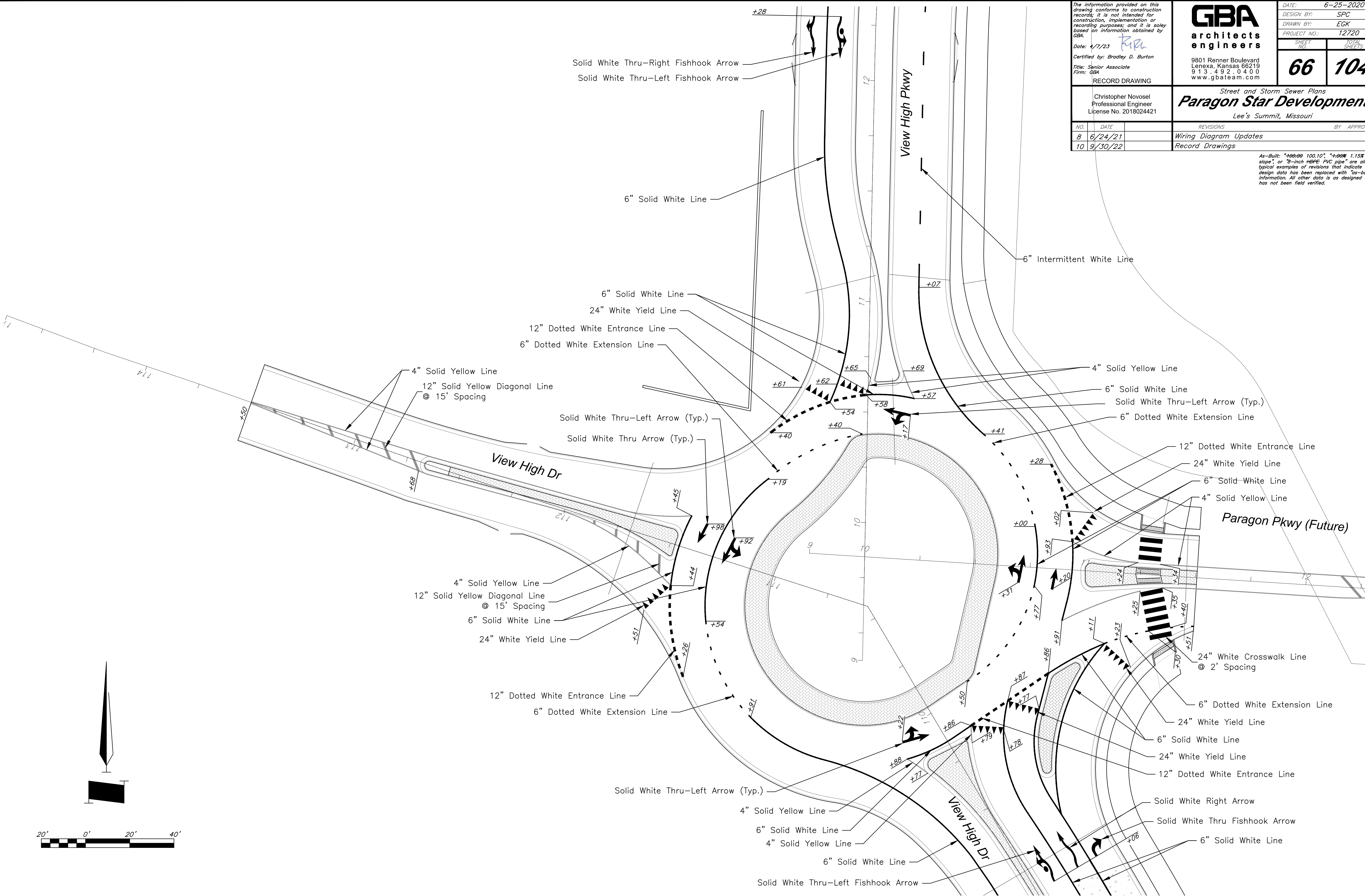
Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-90 100.10", "4-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



Pavement Marking & Signing Plan View High Drive

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DATE: 6-25-2020

DESIGN BY: SPC

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PROJECT NO.: 12720

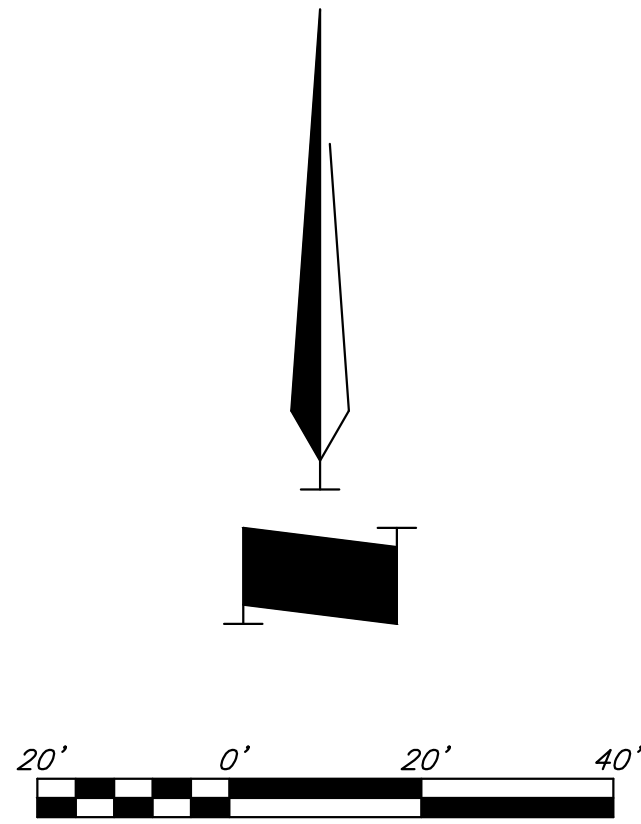
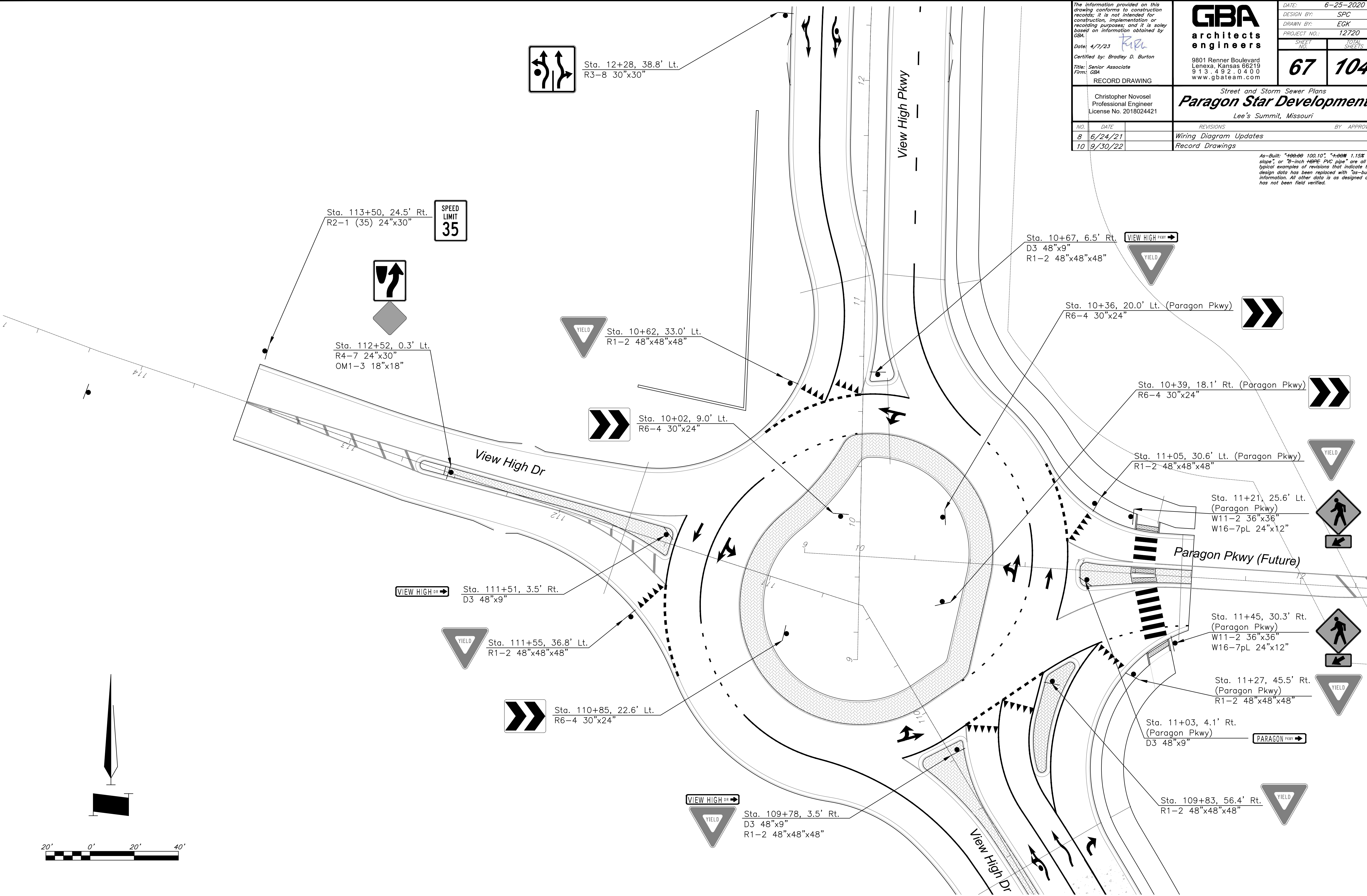
SHEET NO.	TOTAL SHEETS
67	104

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Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
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Pavement Marking & Signing Plan View High Drive

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DESIGN BY: SPC

DRAWN BY: ECK

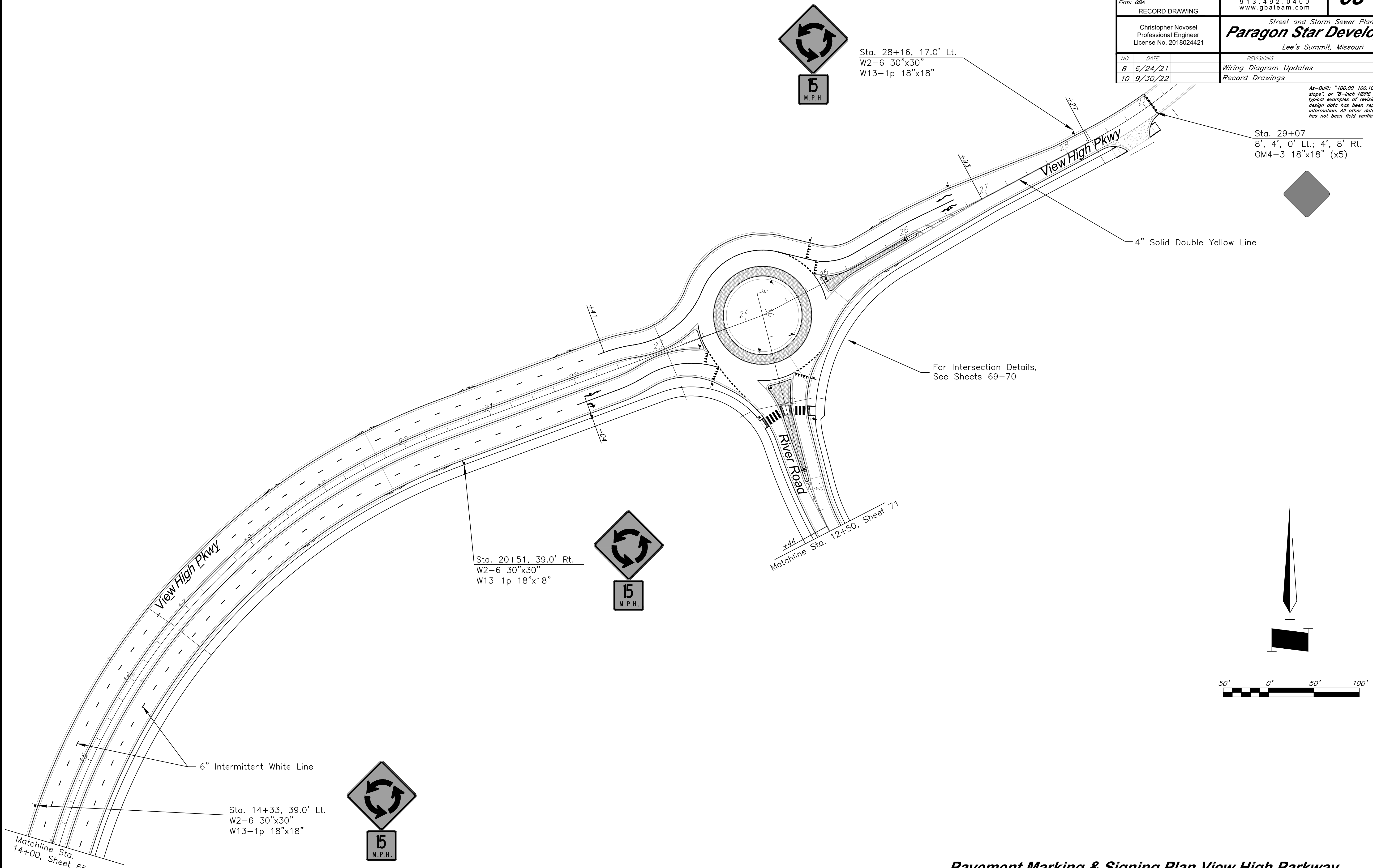
PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
68	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-90 100.10", "4-00% 1.15% slope; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



Pavement Marking & Signing Plan View High Parkway

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\127201501.dwg Layout: 69 Pavement Marking & Signing Plan View High Parkway -- Thursday April 06, 2023, 3:47pm -- Copyright 2023, George Butler Associates, Inc.

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Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE:	6-25-2020
DESIGN BY:	SPC
DRAWN BY:	ECK
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
69	104

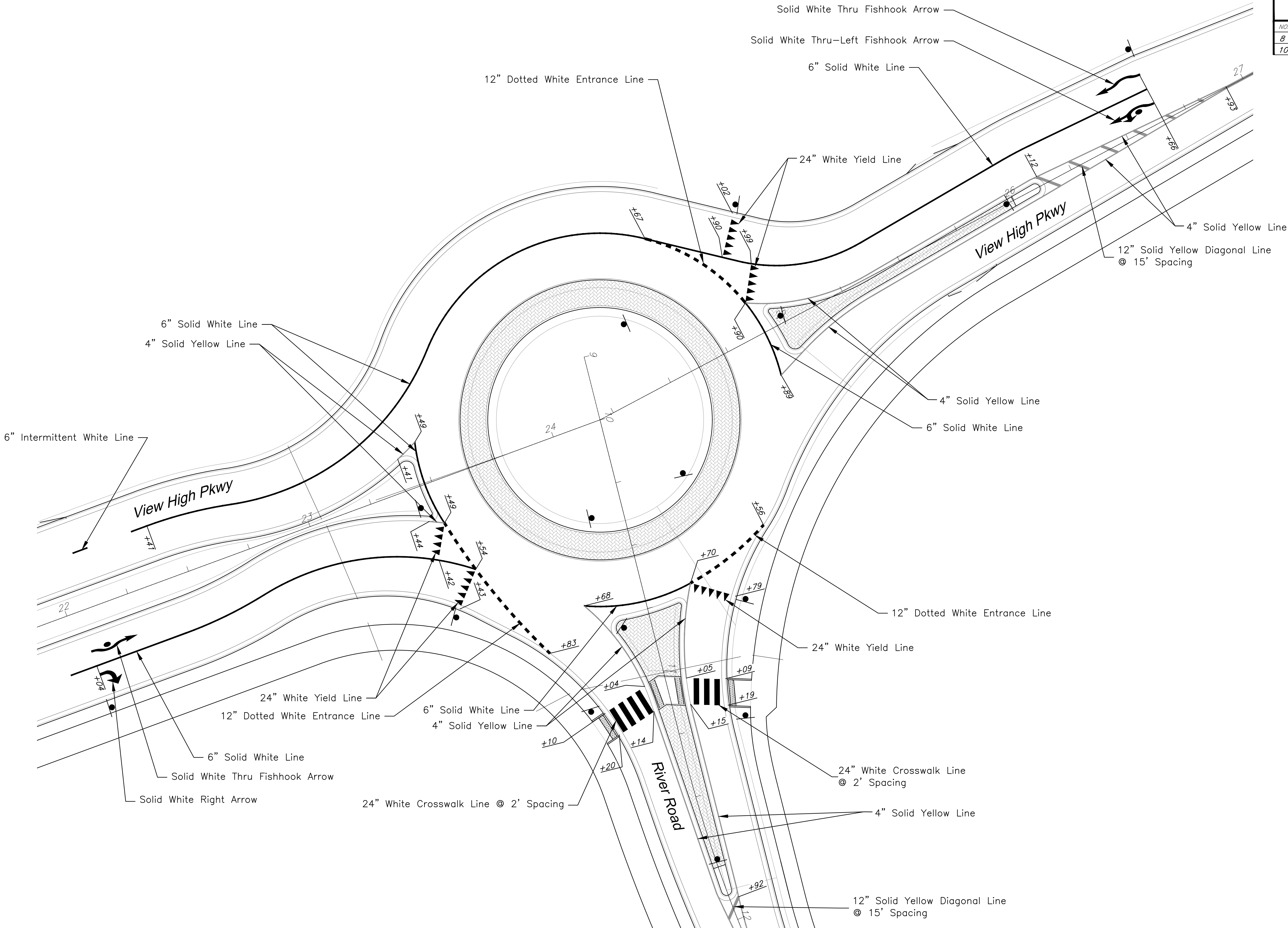
Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE
8	6/24/21
10	9/30/22

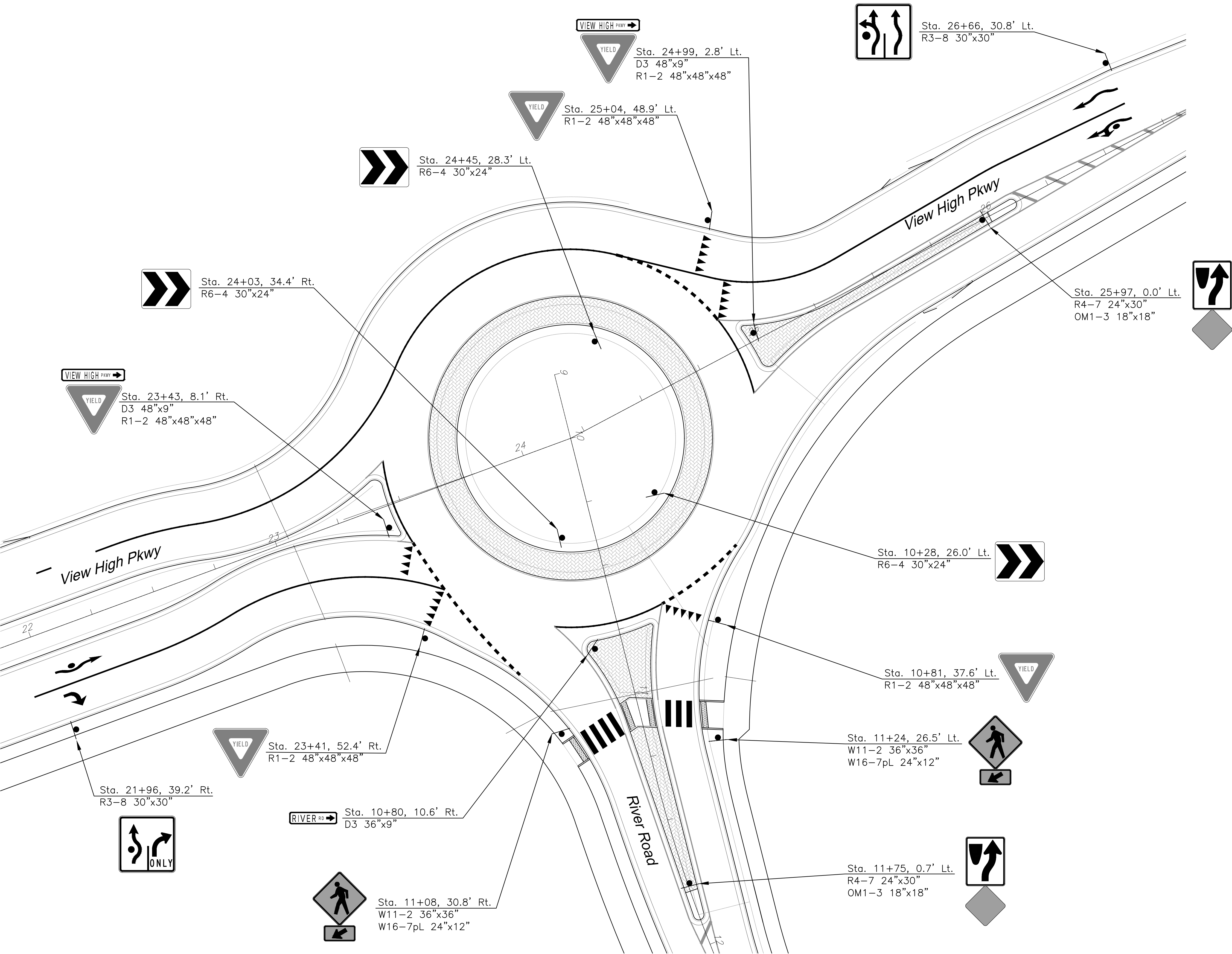
REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

As-Built: "400-90 100.10", "4-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



Pavement Marking & Signing Plan View High Parkway

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\127201501.dwg Layout: 70 Pavement Marking & Signing Plan View High Parkway -- Thursday April 06, 2023, 3:47pm -- Copyright 2023, George Butler Associates, Inc.



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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engineers

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: ECK

PROJECT NO.: 12720

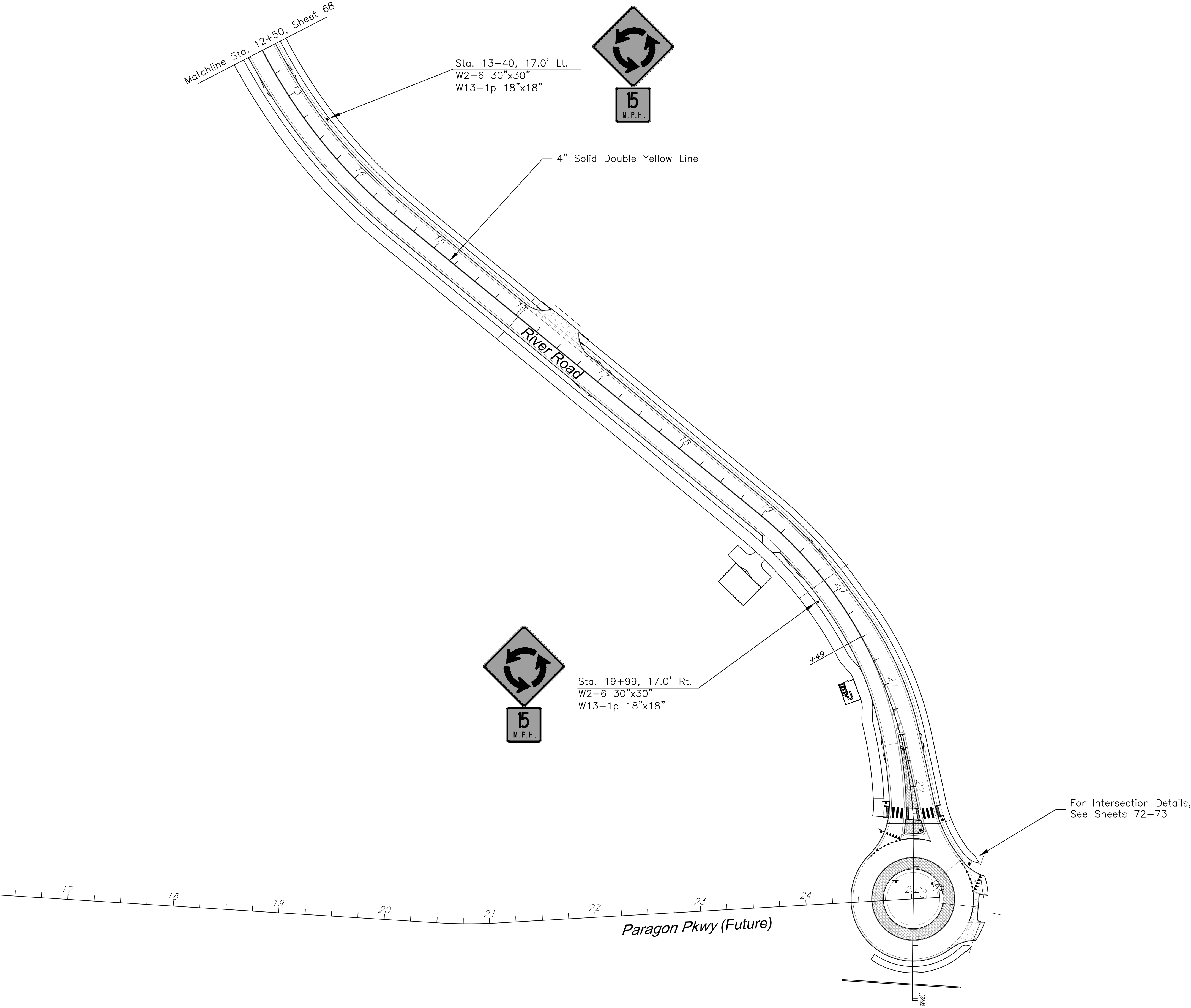
SHEET NO.	TOTAL SHEETS
70	104

Christopher Novosel Professional Engineer License No. 2018024421		Street and Storm Sewer Plans Paragon Star Development Lee's Summit, Missouri	
NO.	DATE	REVISIONS	BY APPROVED
8	6/24/21	Wiring Diagram Updates	
10	9/30/22	Record Drawings	

As-Built: "400-90 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Pavement Marking & Signing Plan View High Parkway

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015202.dwg Layout: 71 Pavement Marking & Signing Plan River Road --- Thursday, April 06, 2023, 3:47pm --- Copyright 2023, George Buller Associates, Inc.



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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architects
engineers

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: ECK

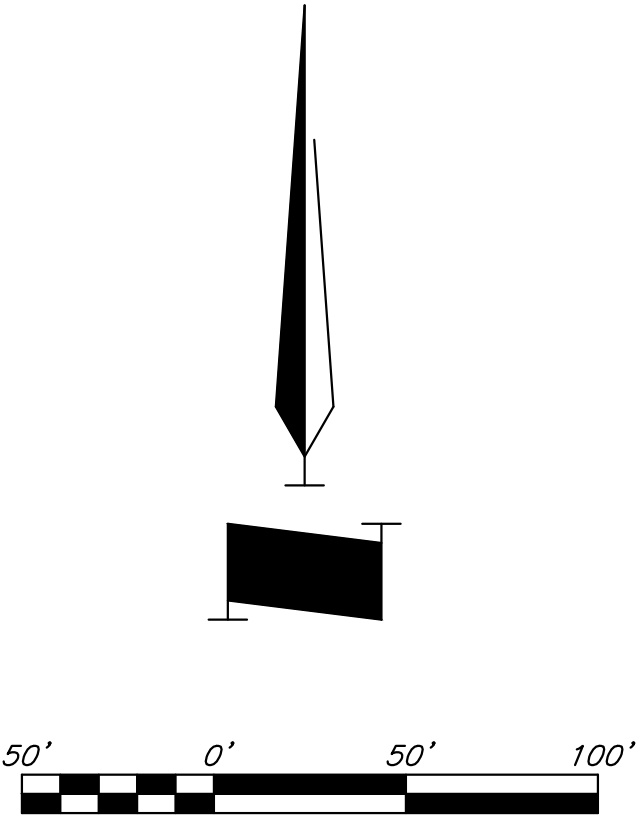
PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
71	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

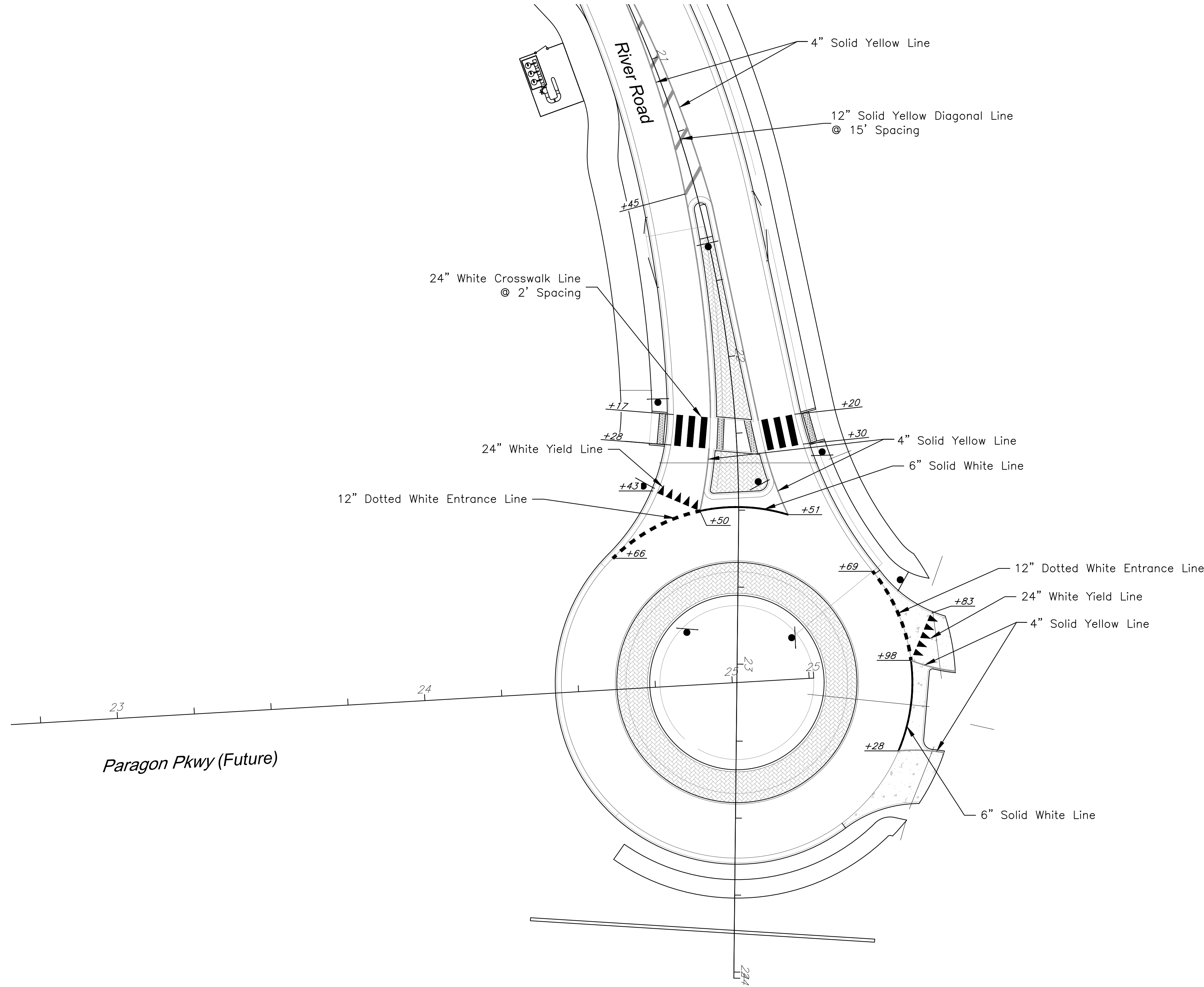
NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-90 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



Pavement Marking & Signing Plan River Road

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015202.dwg Layout: 72 Pavement Marking & Signing Plan River Road --- Thursday, April 06, 2023, 3:47pm --- Copyright 2023, George Buller Associates, Inc.



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: ECK

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
72	104

Christopher Novosel
Professional Engineer
License No. 2018024421

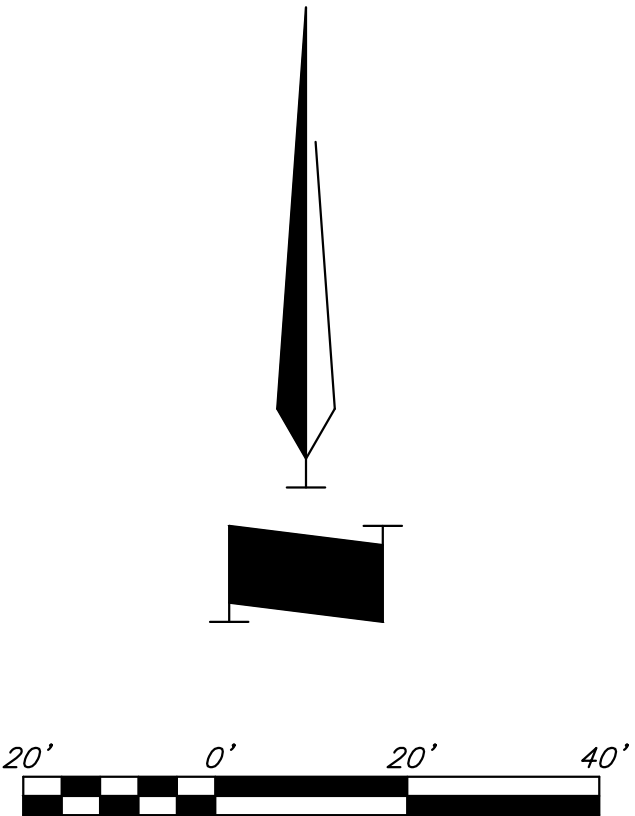
Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

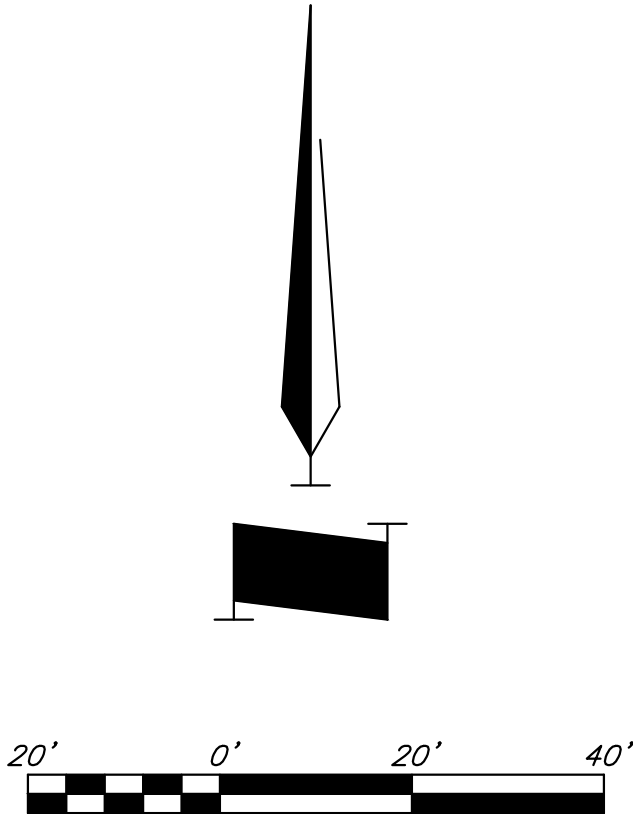
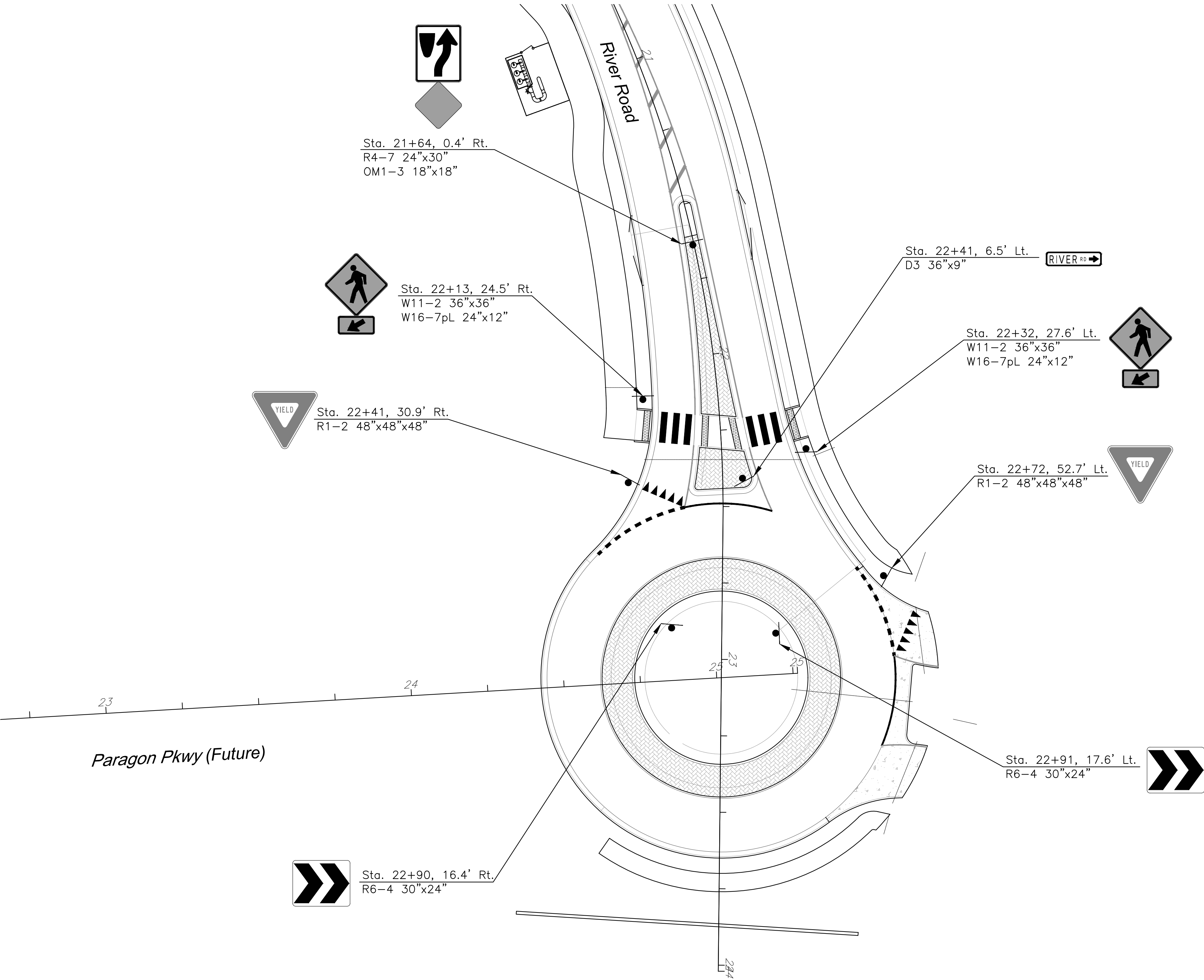
NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-90 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



Pavement Marking & Signing Plan River Road

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015202.dwg Layout: 73 Pavement Marking & Signing Plan River Road --- Thursday, April 06, 2023, 3:47pm --- Copyright 2023, George Buller Associates, Inc.



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: ECK

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
73	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "480-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Pavement Marking & Signing Plan River Road

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015700.dwg Layout: 74 Pavement Marking & Signing Details -- Thursday April 06, 2023, 3:47pm -- Copyright 2023, George Butler Associates, Inc.

Pavement Marking & Signing Details

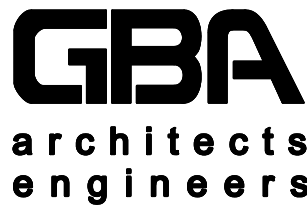
The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING



9801 Renner Boulevard
Lenexa, Kansas 66219
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DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
74	104

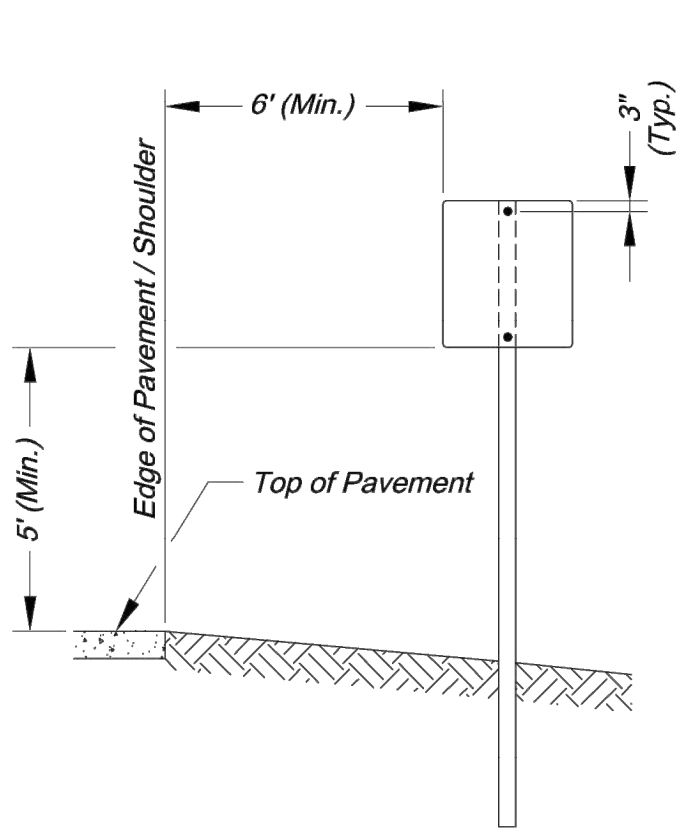
Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

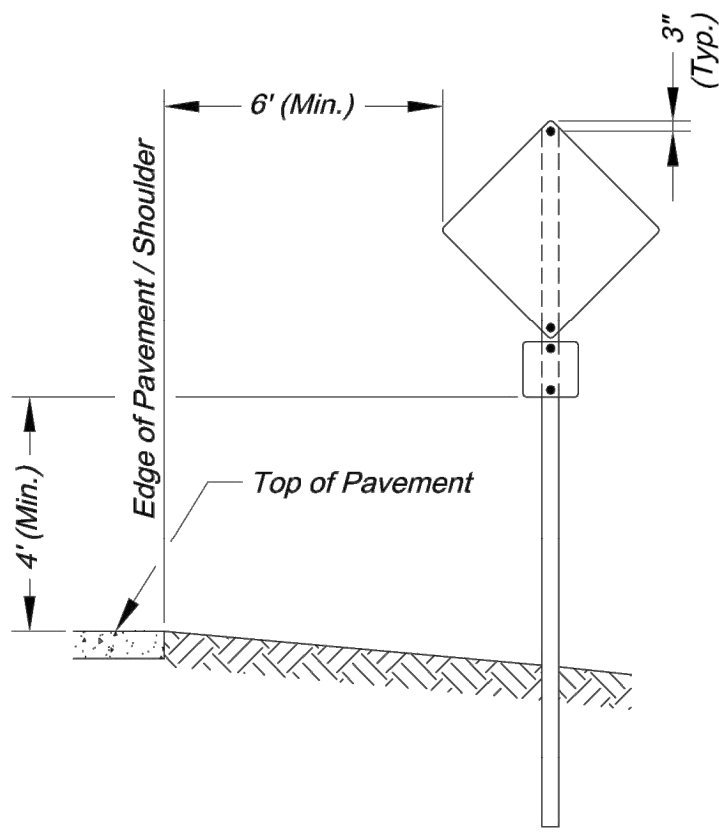
NO.	DATE
8	6/24/21
10	9/30/22

REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

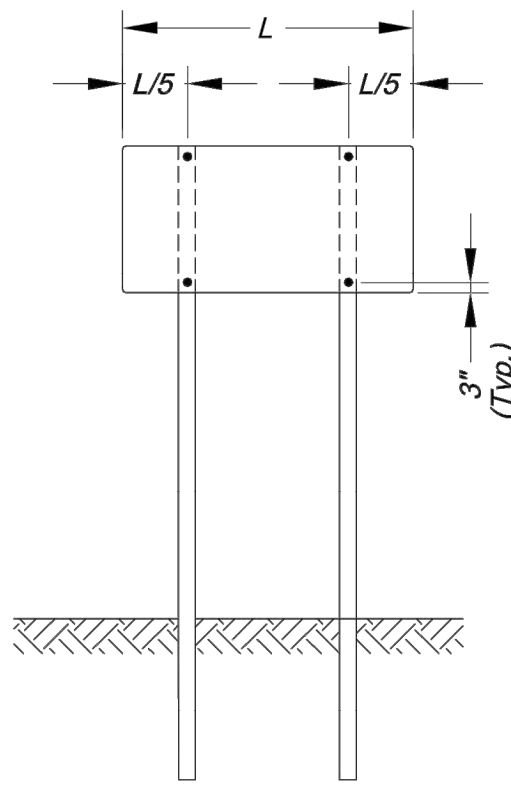
As-Built: "400-00 100.10", "4-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



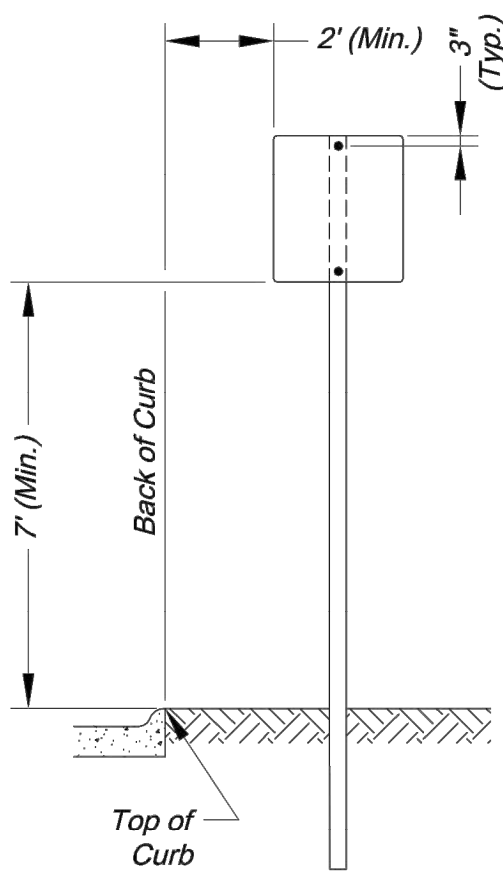
SIGN INSTALLATION FOR NON-CURBED STREET



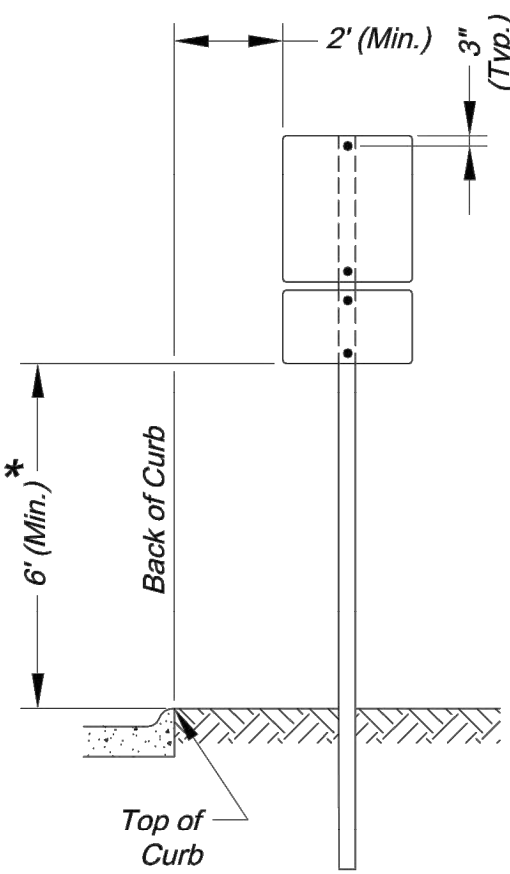
SIGN INSTALLATION WITH AUXILARY SIGN FOR NON-CURBED STREET



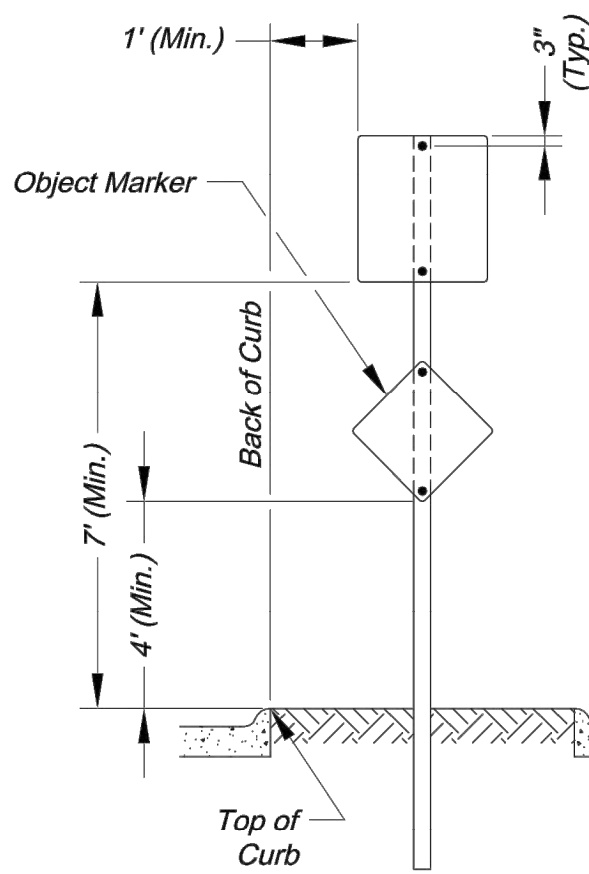
SIGN INSTALLATION WITH TWO SIGN POSTS



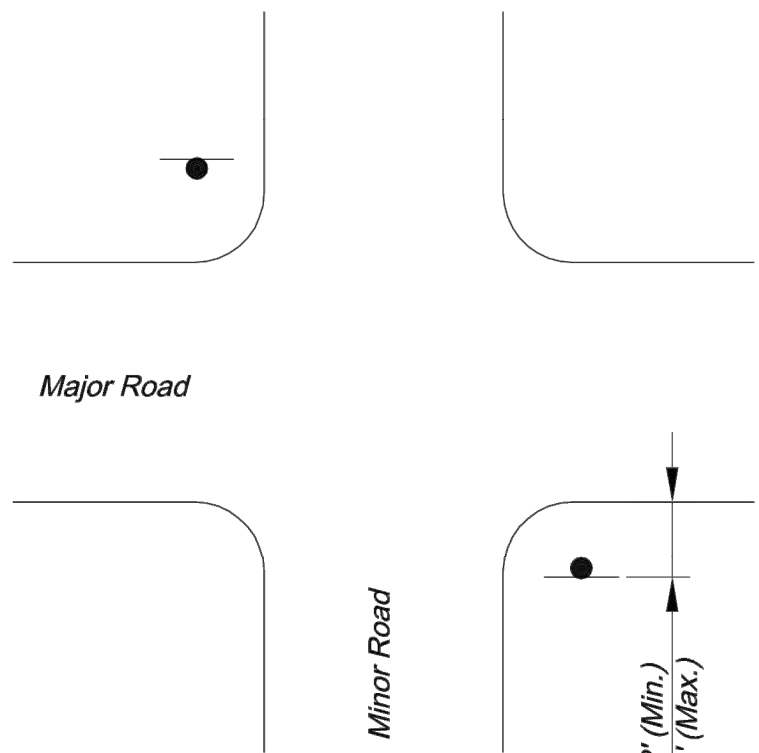
SIGN INSTALLATION FOR CURBED STREET



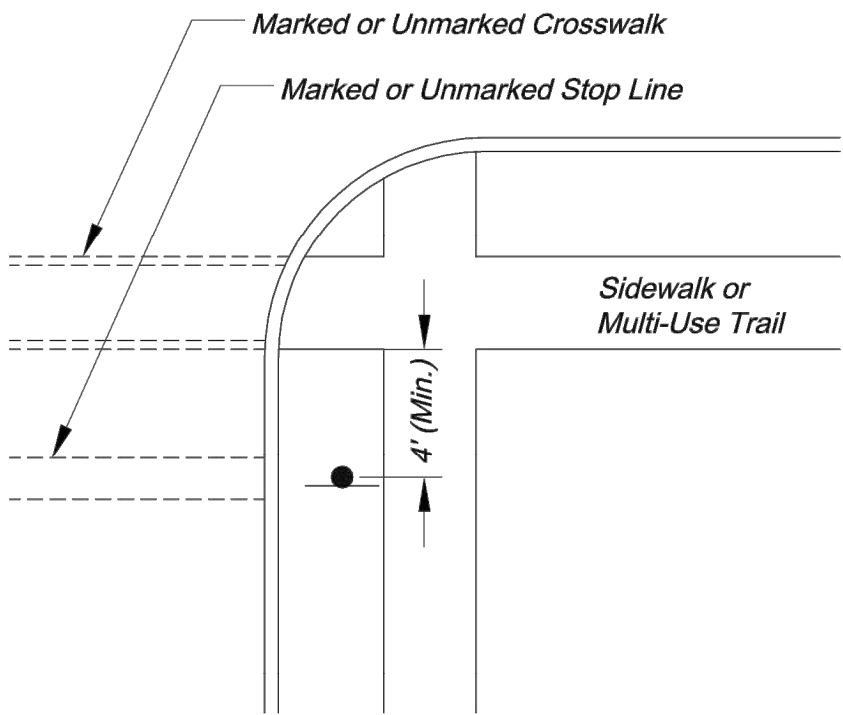
SIGN INSTALLATION WITH AUXILARY SIGN FOR CURBED STREET



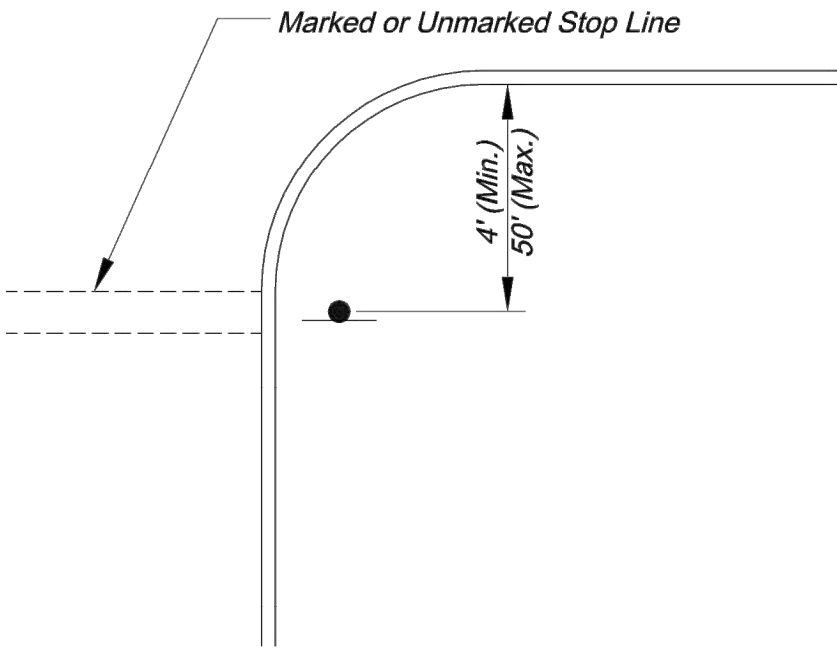
SIGN INSTALLATION FOR RAISED MEDIANS



NON-CURBED INTERSECTION INSTALLATION

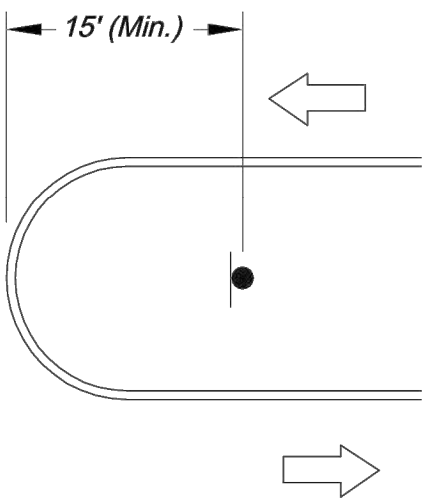


INTERSECTION WITH SIDEWALK / MULTI-USE TRAIL INSTALLATION



CURBED INTERSECTION INSTALLATION

CONTROL SIGN LOCATION



TYPICAL MEDIAN SIGN LOCATION

MEDIAN SIGN LOCATION

- NOTES:
1. A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
 2. For existing concrete medians, a 4" hole shall be cored into the concrete.

SIGN MOUNTING DETAILS

* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

NOTE:
1. Generally, the sign mounting height should not be more than 1' greater than the minimum mounting height.

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



SIGN MOUNTING DETAILS

STANDARD DRAWING SN-1

Project:
Sheet Name:
Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#

1 OF 3

1

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015700.dwg Layout: 75 Pavement Marking & Signing Details -- Thursday April 06, 2023, 3:47pm -- Copyright 2023, George Butler Associates, Inc.

Pavement Marking & Signing Details

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING



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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
75	104

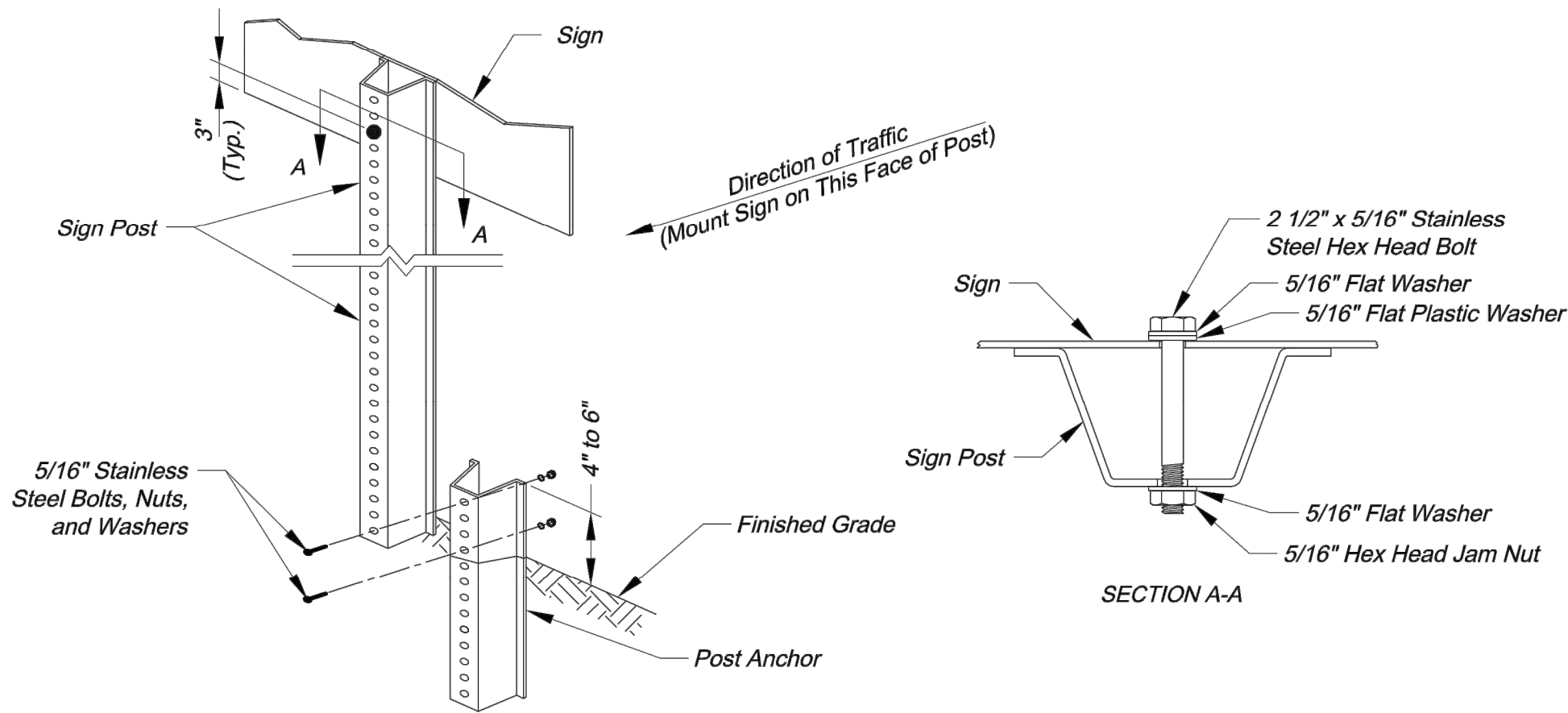
Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE
8	6/24/21
10	9/30/22

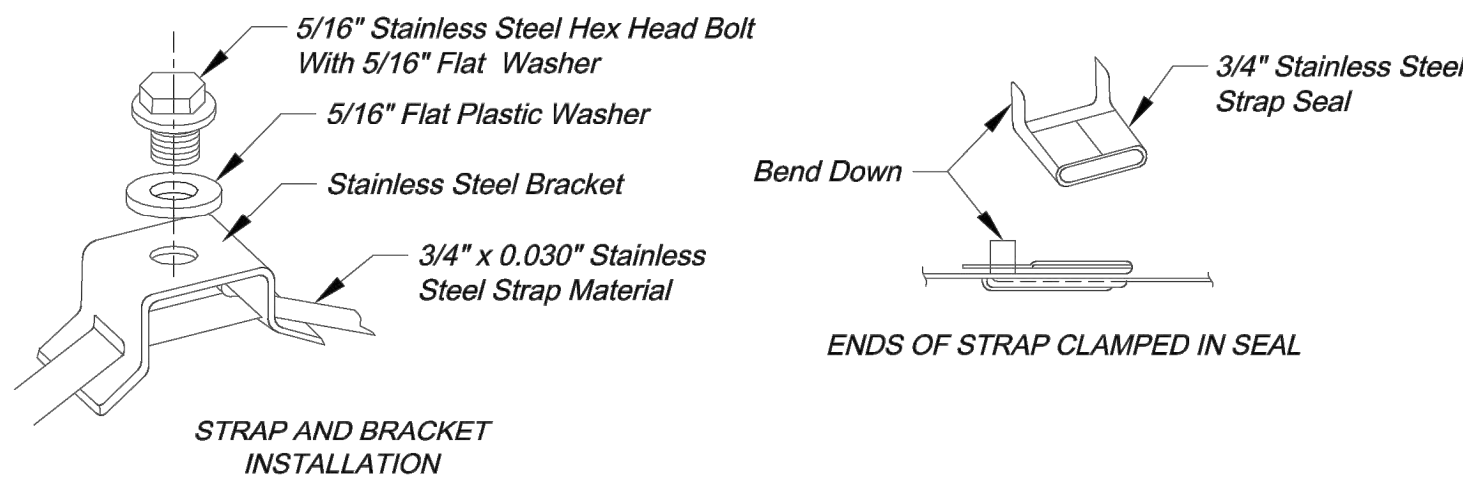
REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

As-Built: "400-00 100.10", "4-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



U-STEEL POST DETAILS

- U-STEEL POST NOTES:
1. Splice shall be positioned entirely between finished grade line and 18" above finished grade line. Only one splice will be allowed per post.
 2. U-Steel post shall be 3 lb./ft., galvanized according to ASTM A123.
 3. U-Steel post can be used for installation of signs with an area of less than 2.5 square feet.
 4. All posts shall be embedded a minimum of 3 feet.

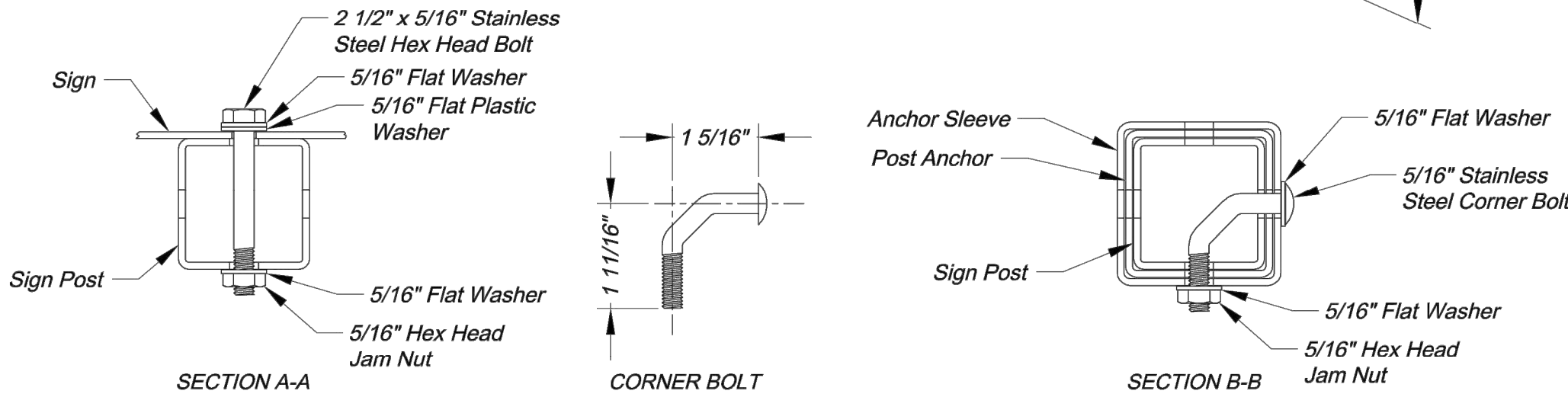


STRAP TYPE SIGN SUPPORT DETAILS

- METAL POLE SIGN MOUNTING NOTES:
1. Signs on metal poles shall be attached with two brackets and stainless steel bands.
 2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2 inches from the edge of the sign.
 3. Holes in sign shall be located such that the sign is level.
 4. All strap, bracket, and seal materials should be Type 201 stainless steel.

- PERMANENT SIGNING GENERAL NOTES:
1. All signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 2. The Contractor is responsible for avoiding any and all utilities when installing sign posts, whether the utility is indicated on the plans or not.
 3. All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit.
 4. The Contractor shall stake the location of all sign posts to be installed. The City Inspector shall inspect the staking prior to installation. Minor relocation to avoid conflicts may be allowed with the approval of the City Traffic Engineer or designee.
 5. Signs shown to be installed on the side of metal poles shall be mounted with stainless steel straps or wing brackets as detailed. No signs are to be installed on wood poles. See Traffic Signal Standard Drawings for the installation of signs on mast arms.
 6. All post mounted signs shall be installed with breakaway anchors according to the Standard Drawings.
 7. All existing signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the Contractor damages any existing sign or posts during construction, the Contractor will be required to replace the damaged materials with new signs or posts of the same type and size at the Contractor's expense. The Contractor shall be responsible for removing and storing any signs that are to be reinstalled on the project. All equipment shall be reinstalled in good condition.
 8. Existing permanent signs and posts removed by the Contractor for construction purposes which are not to be reinstalled shall be delivered to the City's Public Works Maintenance Facility (1971 SE Hamblen Road). The Contractor shall be responsible for removing and storing equipment in good condition and is fully responsible for the equipment until it is delivered.
 9. All Stop, Yield, or street name signs shall be maintained in a conspicuous location for the driving public. All Stop and Yield signs removed for construction purposes can be temporarily erected in reflectorized drums (no less than 7 feet above the pavement surface) until they can be reinstalled. Any temporary Stop or Yield sign installation to be left in place overnight will require prior approval from the City Inspector.

- SQUARE STEEL POST INSTALLATION SEQUENCE:
1. Sign post anchor driven partially into the ground using a drive cap with a sledge or power equipment.
 2. Anchor sleeve slipped over anchor and drive into the ground together with the sign post anchor.
 3. Insert sign post into the post anchor and bolt in place.



SQUARE STEEL POST DETAILS

- SQUARE STEEL POST NOTES:
1. Square steel sign posts and break-away anchor shall consist of the following materials:
 - Sign Post - 14 Ga. 2" x 2" Square Steel Post
 - Post Anchor - 12 Ga. 2 1/4" x 2 1/4" x 36" Square Steel Post
 - Anchor Sleeve - 12 Ga. 2 1/2" x 2 1/2" x 18" Square Steel Post
 2. 14 Gauge posts must meet a certified minimum yield strength of 60,000 psi.
 3. In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
 4. The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
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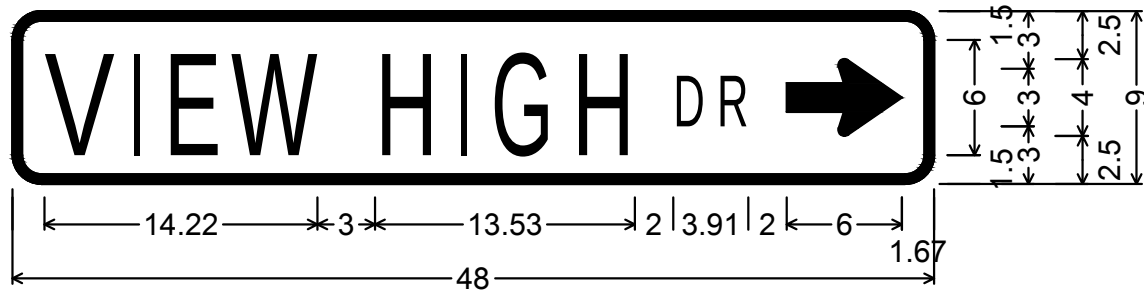
SIGN POST DETAILS
STANDARD DRAWING SN-2

Project:
Sheet Name:

Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#

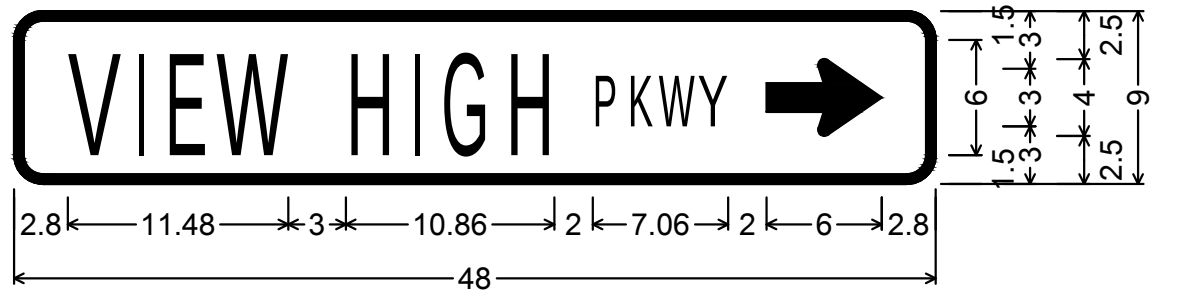
2 OF 3
2

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015700.dwg Layout: 76 Pavement Marking & Signing Details -- Thursday April 05, 2023, 3:46pm -- Copyright 2023, George Butler Associates, Inc.



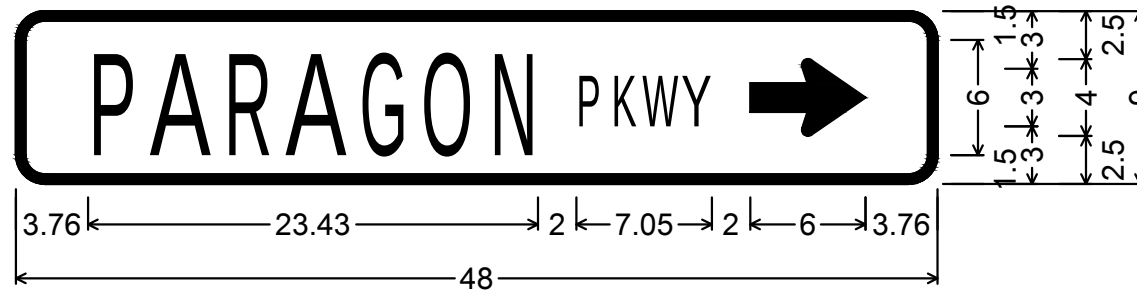
D3-1;
1.50" Radius, 0.50" Border, White on, Green;
"VIEW HIGH", C 75% spacing; "DR", C;
Standard Arrow Custom 6.00" X 4.00" 0°;
Table of distances between letter and object lefts

V	W	H	I	E	D	R	→	
1.67	4.42	1.79	3.51	7.50	4.23	1.79	4.23	5.28
2.27	3.64	6.00	1.67					



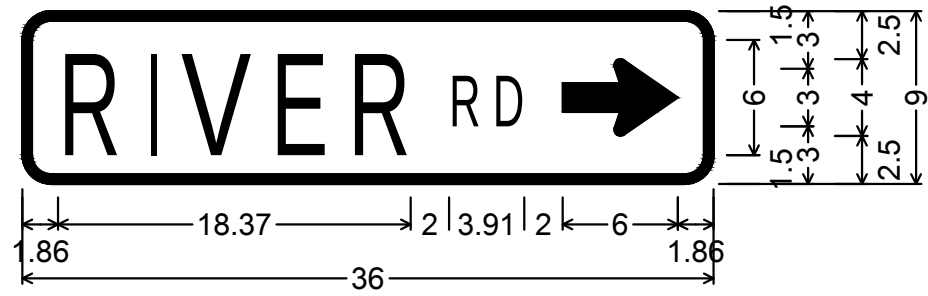
D3-1;
1.50" Radius, 0.50" Border, White on, Green;
"VIEW HIGH", B 75% spacing; "PKWY", B;
Standard Arrow Custom 6.00" X 4.00" 0°;
Table of distances between letter and object lefts

V	W	H	I	E	D	R	→	
2.80	3.44	1.59	2.70	6.75	3.37	1.59	3.37	4.53
1.83	1.61	2.02	3.60	6.00	2.80			



D3-1;
1.50" Radius, 0.50" Border, White on, Green;
"PARAGON", B 75% spacing; "PKWY", B;
Standard Arrow Custom 6.00" X 4.00" 0°;
Table of distances between letter and object lefts

P	A	R	A	S	O	N	P	K	W	Y	→	
3.76	3.20	3.86	3.21	3.86	3.21	3.56	4.53	1.82	1.62	2.02	3.59	6.00
3.76												



D3-1;
1.50" Radius, 0.50" Border, White on, Green;
"RIVER", C; "RD", C;
Standard Arrow Custom 6.00" X 4.00" 0°;
Table of distances between letter and object lefts

R	I	V	E	R	R	D	→	
1.86	4.55	1.85	4.67	4.02	5.28	2.27	3.64	6.00
1.86								

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Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton
Professional Engineer
Firm: GBA

RECORD DRAWING

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engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020
DESIGN BY: DJM
DRAWN BY: CMN
PROJECT NO.: 12720
SHEET NO. 76
TOTAL SHEETS 104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

Christopher Novosel
Professional Engineer
License No. 2018024421

REVISIONS
Wiring Diagram Updates
Record Drawings

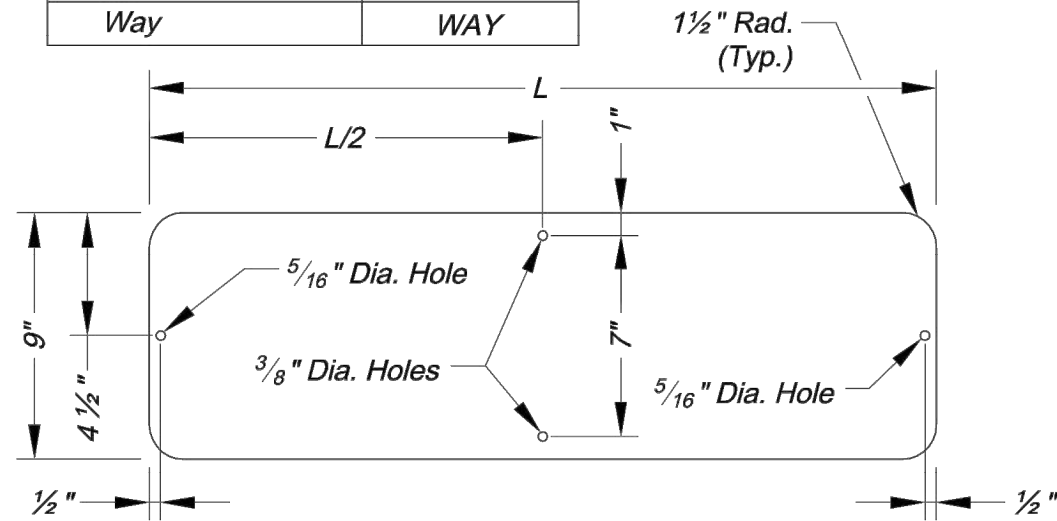
NO. DATE BY APPROVED

8 6/24/21
10 9/30/22

STANDARD ABBREVIATION LISTS

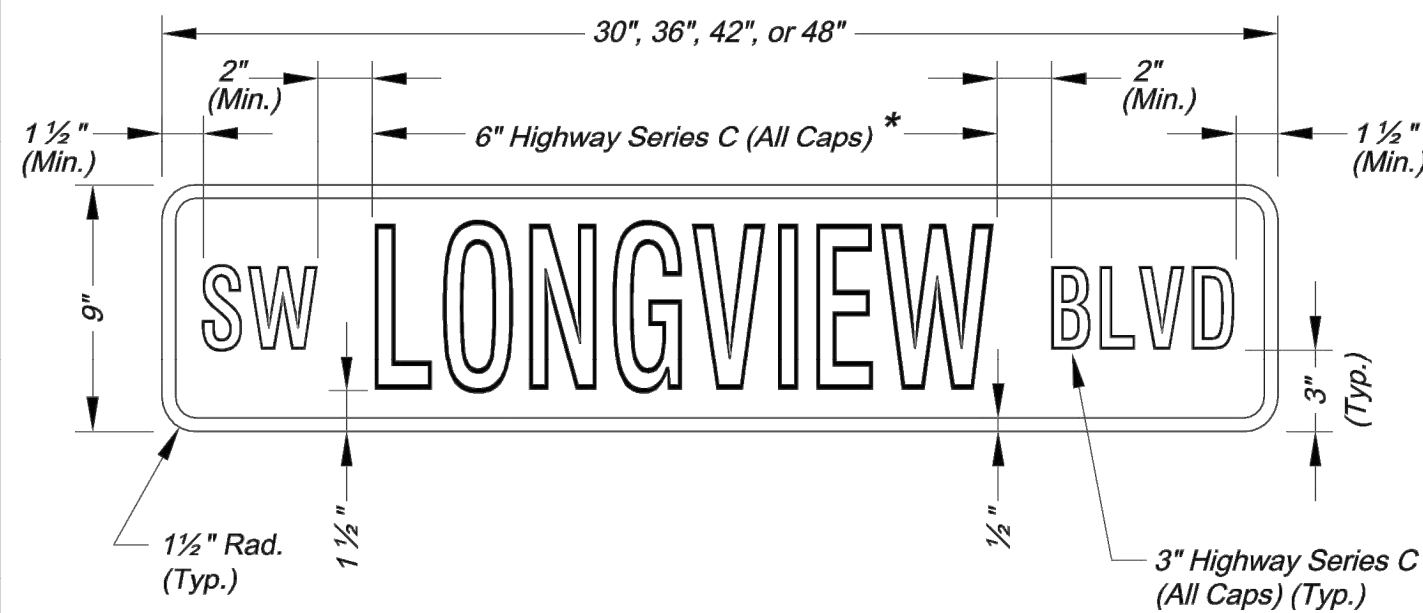
Named Streets	
Avenue	AVE
Boulevard	BLVD
Circle	CIR
Creek	CR
Court	CT
Crossing	XING
Drive	DR
Highway	HWY
Lane	LN
Parkway	PKWY
Place	PL
Road	RD
Street	ST
Terrace	TER
Trail	TRL
Way	WAY

Numbered Streets	
First	ST
Second	ND
Third	RD
Fourth to Tenth	TH



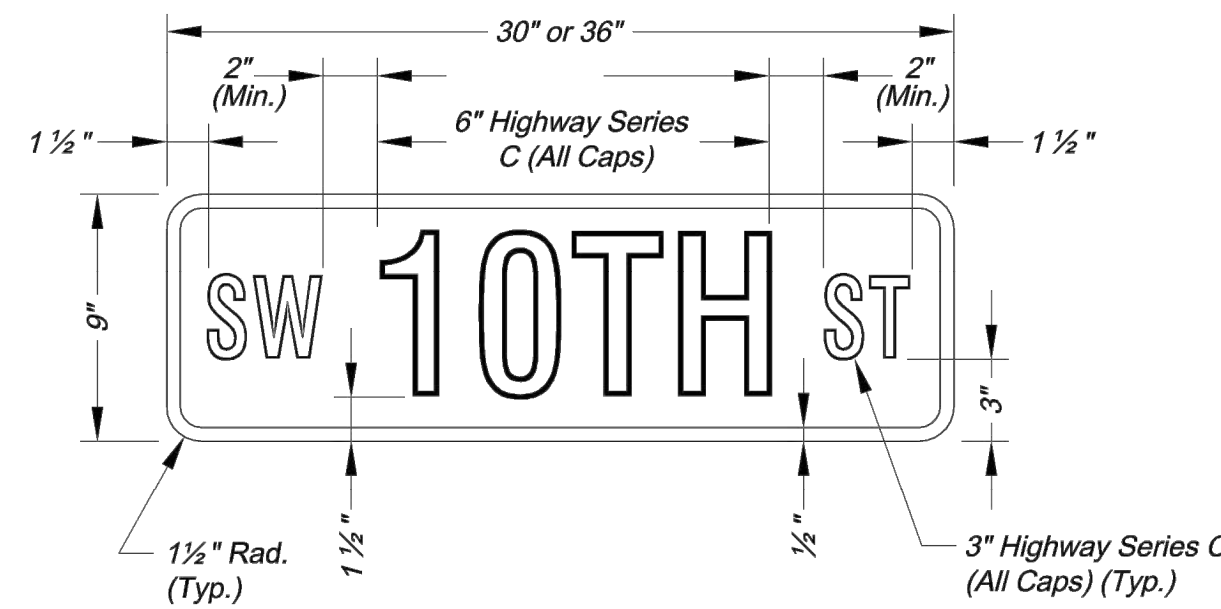
STREET NAME SIGN BLANK DETAILS

For Mounting on Square Steel Posts



NAMED STREET NAME SIGN DETAIL

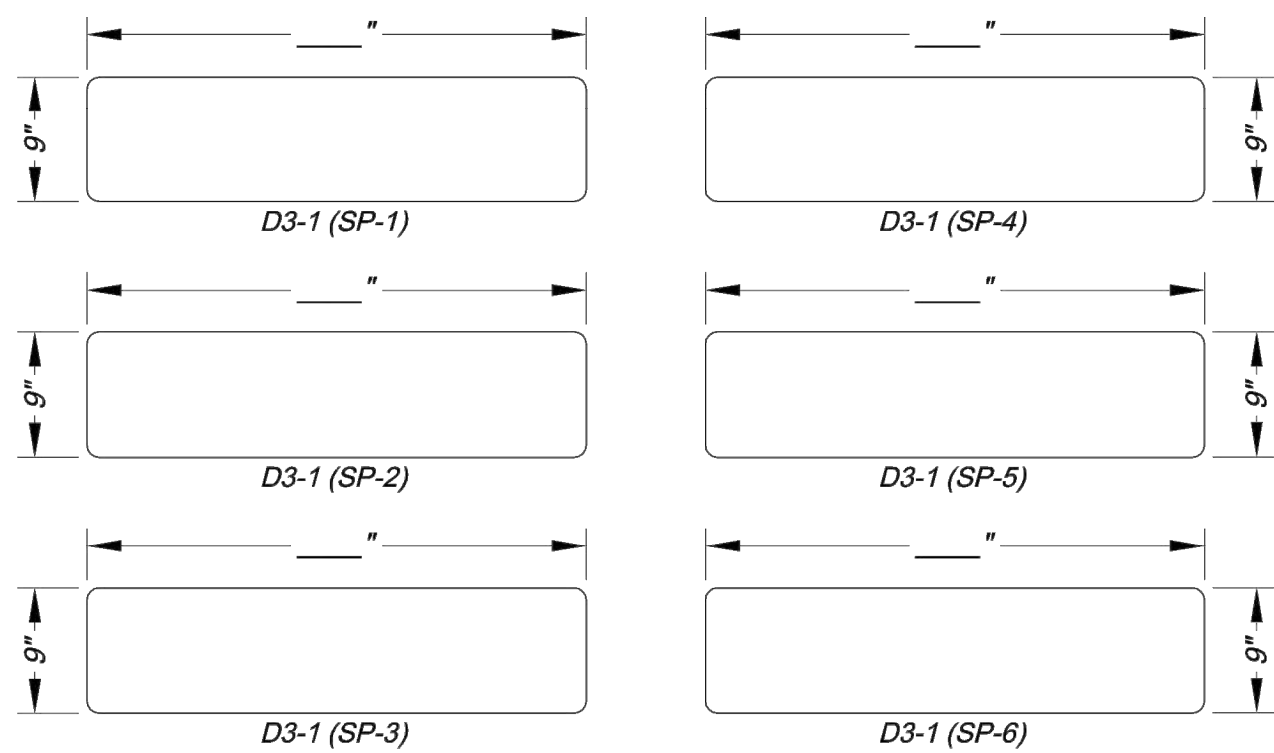
* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



NUMBERED STREET NAME SIGN DETAIL

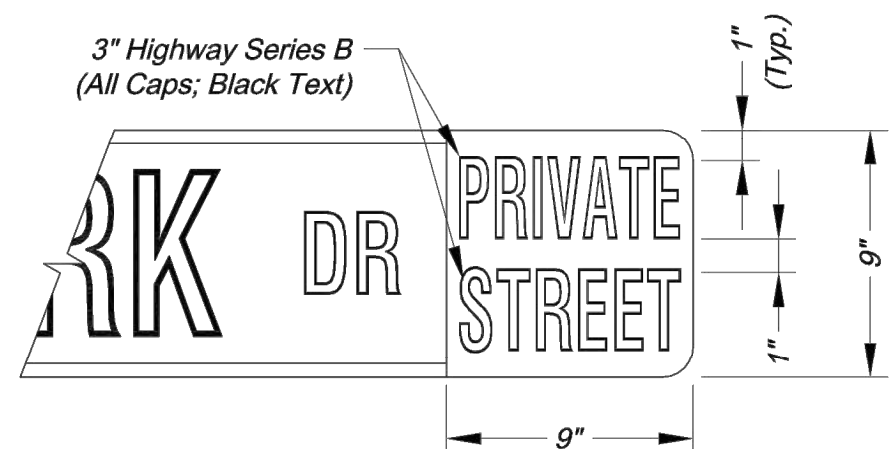
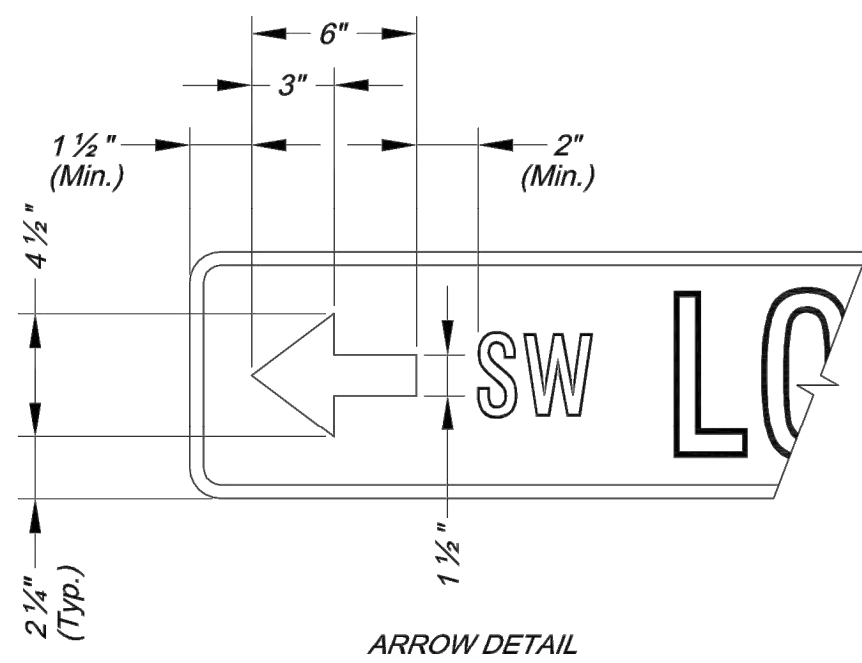
STREET NAME SIGN QUANTITIES

Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity (Sq. Ft.)
D3-1 (SP-1) View High Dr	48" x 9"	3.6	2	6.0
D3-1 (SP-2) View High Pkwy	48" x 9"	3.0	3	9.0
D3-1 (SP-3) Paragon Pkwy	48" x 9"	3.0	1	3.0
D3-1 (SP-4) River Rd	36" x 9"	2.25	2	4.5
D3-1 (SP-5)	9" x			
D3-1 (SP-6)	9" x			



PROJECT SIGN DETAILS

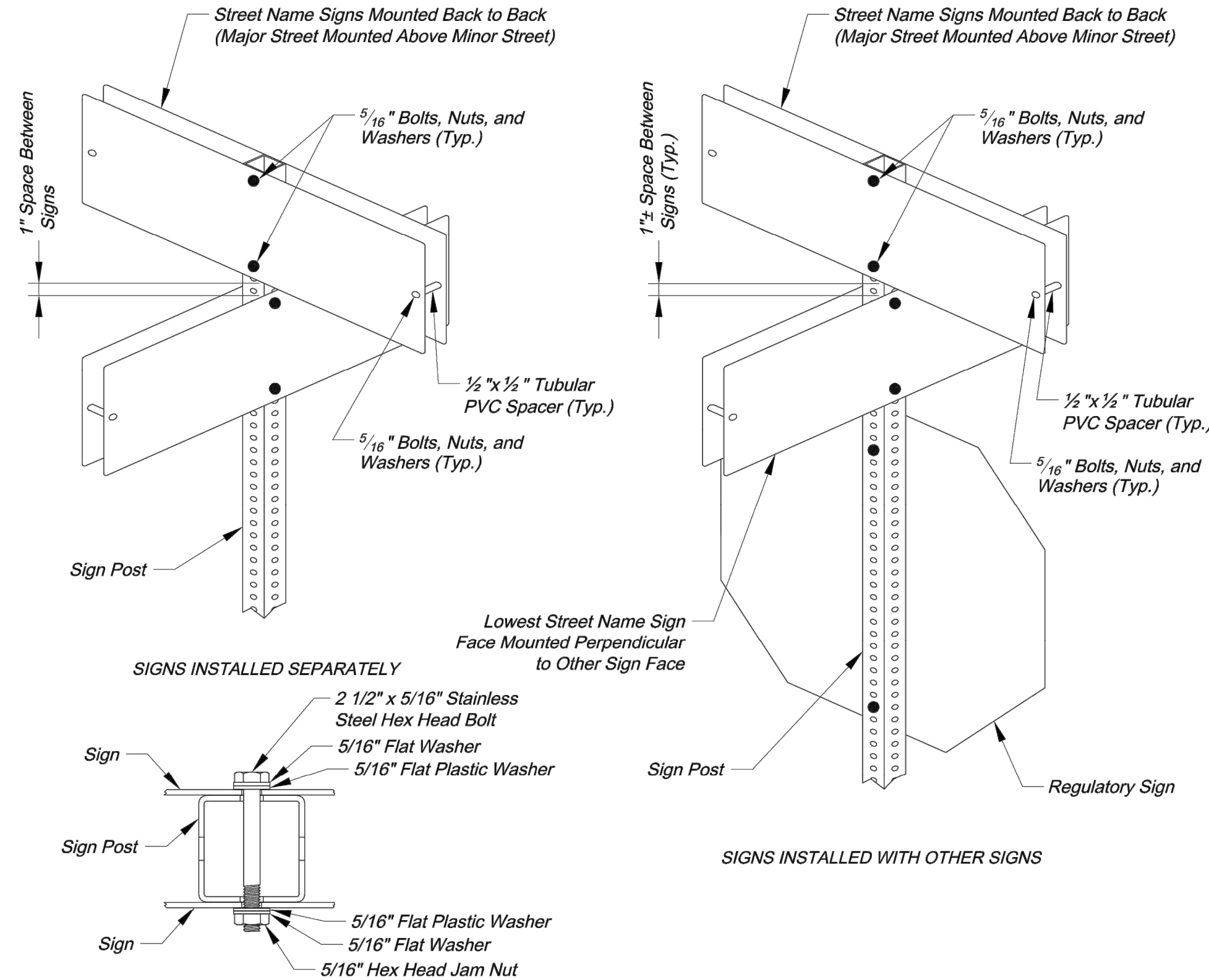
SEE ABOVE



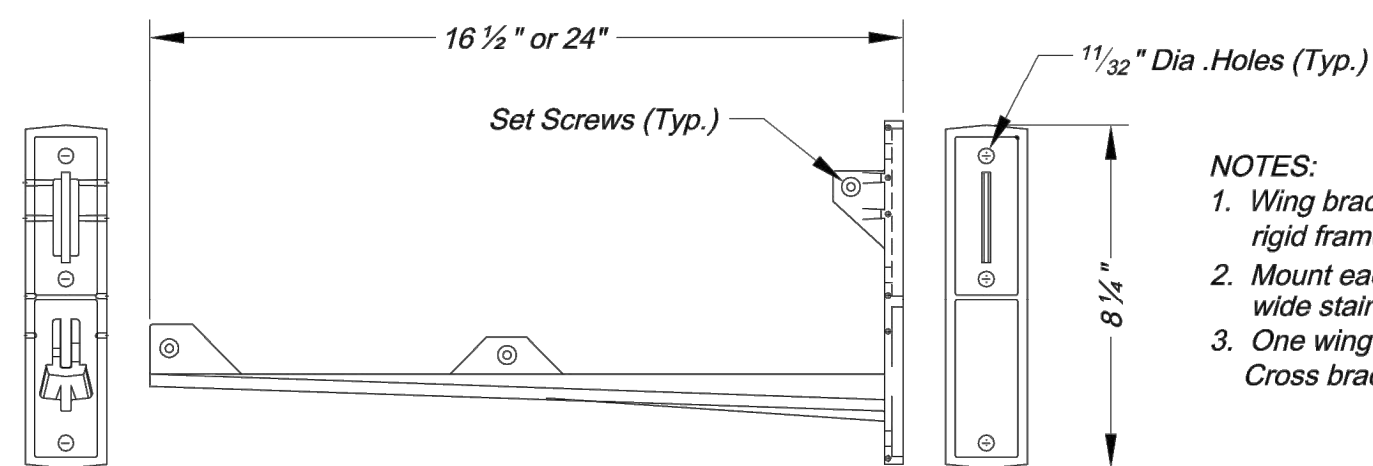
NOTES:

- For all street name signs, the legend shall be white and the background shall be green.
- Arrows shall be added to street name signs where the name of a street changes at an intersection. Street name signs with arrows are to be installed on each side of the intersection to indicate the change in names. Arrows shall be white.
- The "PRIVATE STREET" tag should be added to the end of street name signs to indicate where a street that is outside the right-of-way intersects a public street. The background for the "PRIVATE STREET" tag shall be yellow.

STREET NAME SIGN FACE DETAILS

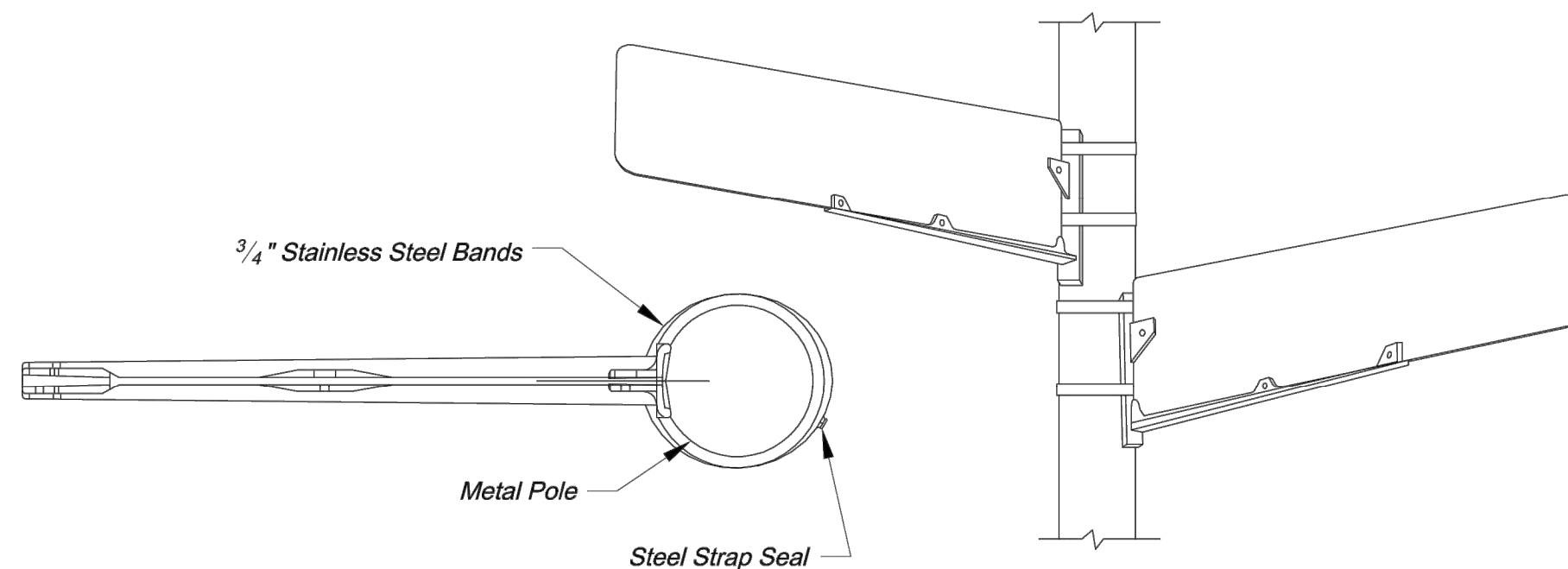


SQUARE STEEL POST MOUNTING DETAILS



NOTES:

- Wing bracket shall be an L-shaped cantilever of T-beam rigid frame 380-3 aluminum alloy construction.
- Mount each wing bracket to metal pole using two 3/4" wide stainless steel straps.
- One wing bracket shall be installed per each sign. Cross brackets are not allowed.



WING BRACKET MOUNTING DETAILS

As-Built: "400-90 100.10", "4-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

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220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
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STREET NAME SIGN DETAILS

STANDARD DRAWING SN-3

Project:

Sheet Name:

Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#

3 OF 3

3

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015700.dwg Layout: 77 Pavement Marking & Signing Details -- Thursday April 06, 2023, 3:46pm -- Copyright 2023, George Butler Associates, Inc.

Pavement Marking & Signing Details

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

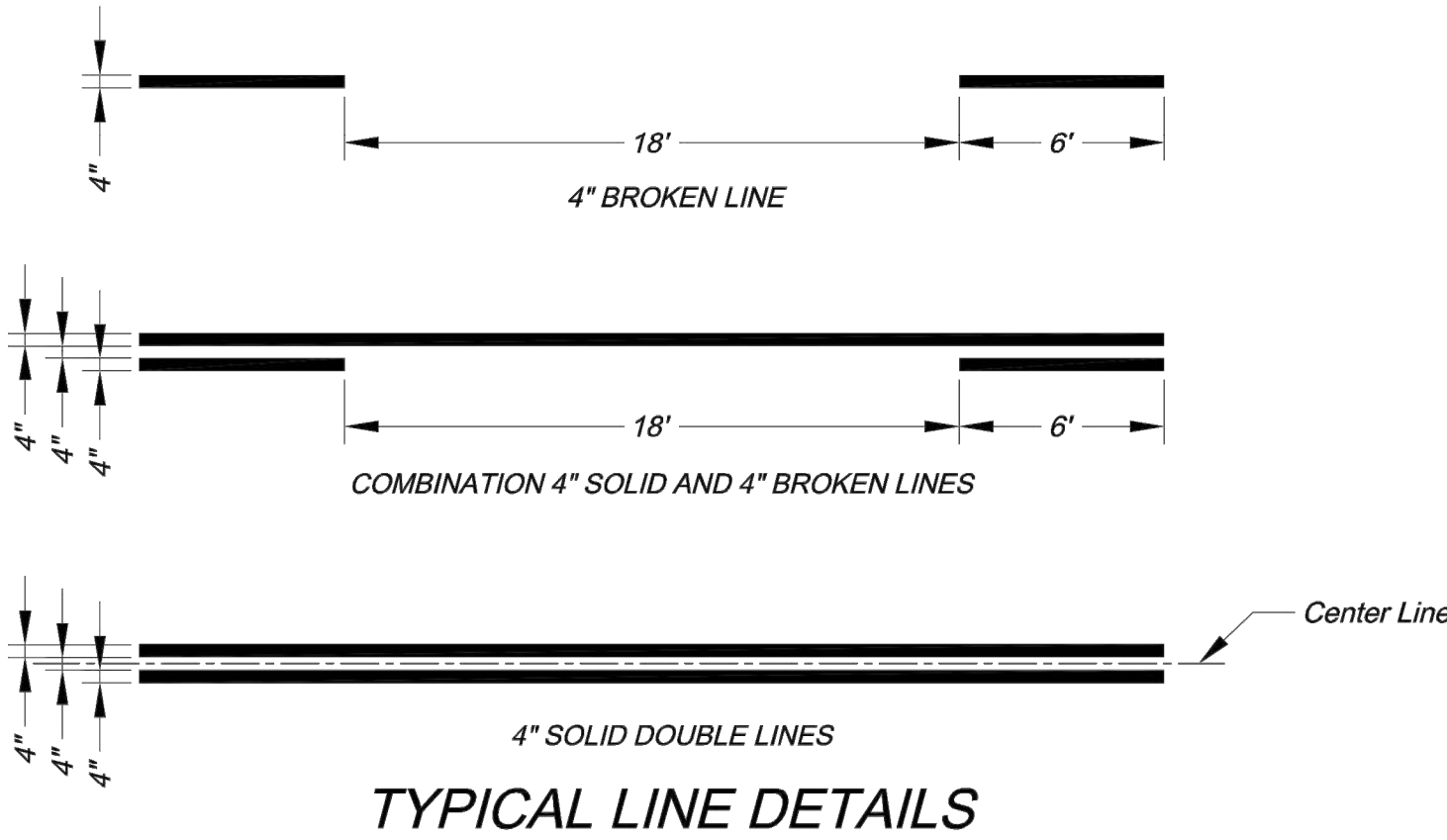
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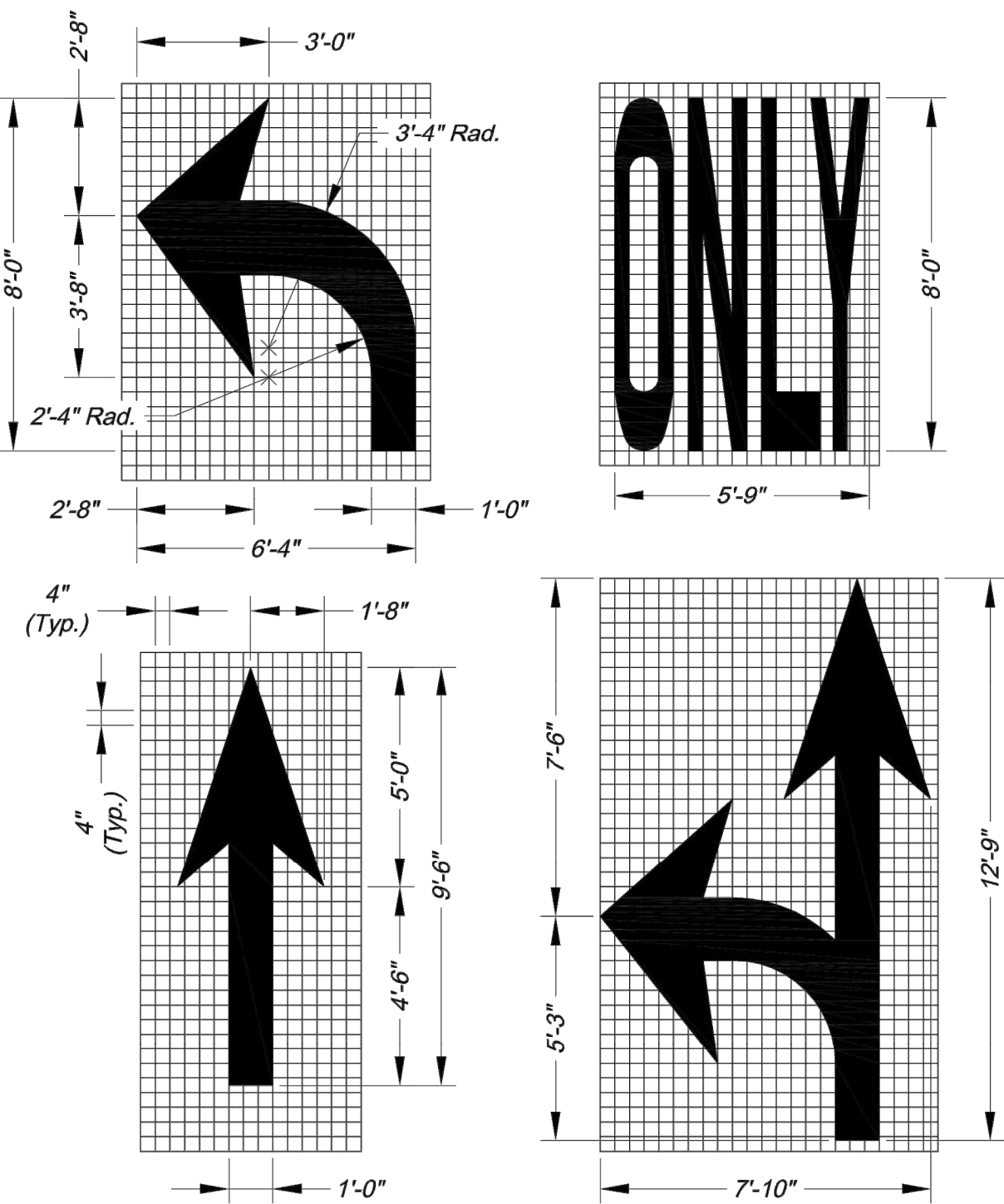
DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
77	104

Christopher Novosel Professional Engineer License No. 2018024421		Street and Storm Sewer Plans Paragon Star Development Lee's Summit, Missouri	
NO.	DATE	REVISIONS	BY APPROVED
8	6/24/21	Wiring Diagram Updates	
10	9/30/22	Record Drawings	

As-Built: "400-90 100.10" "3-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

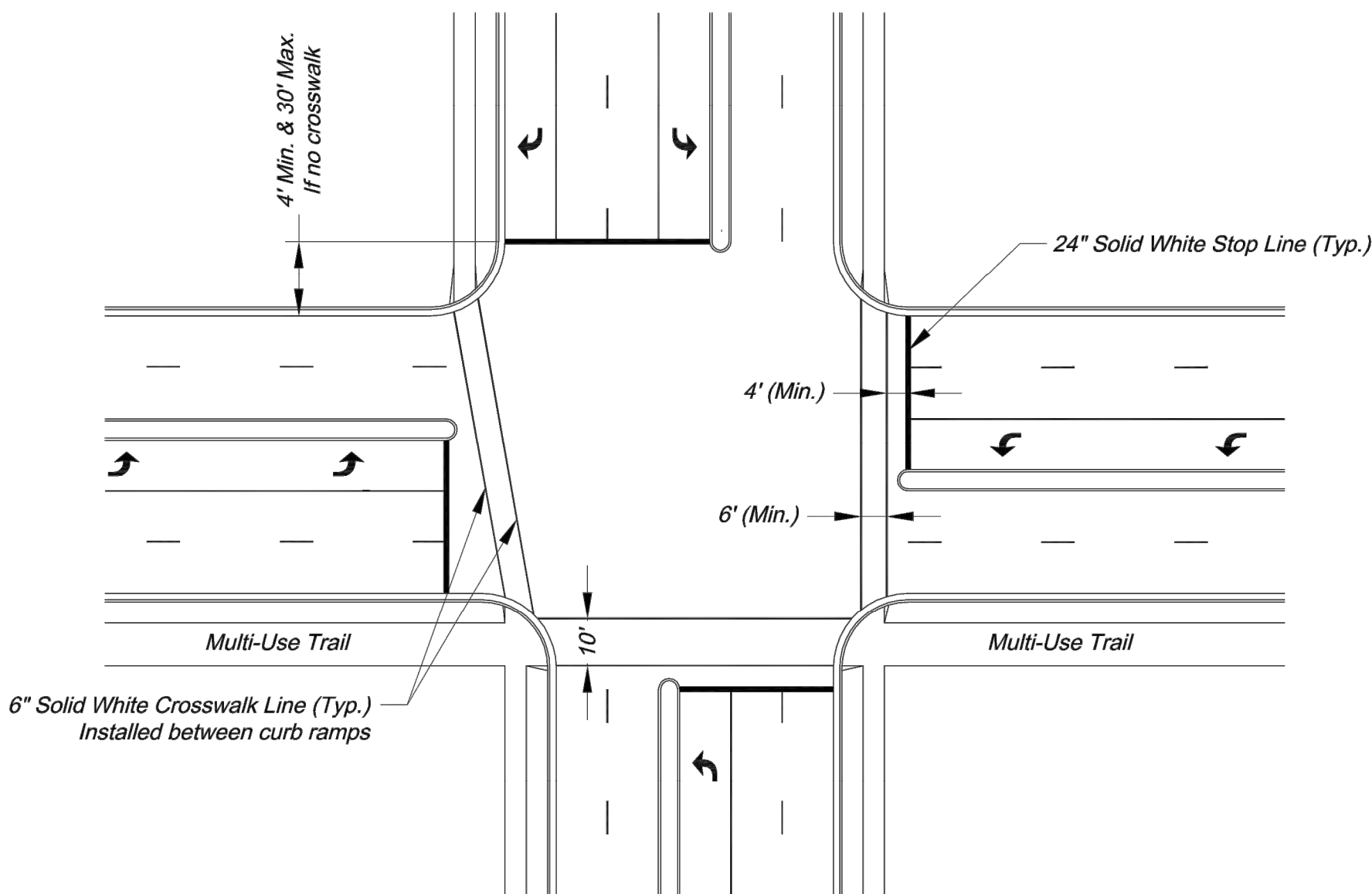


- NOTES:
1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
 2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across driveways.



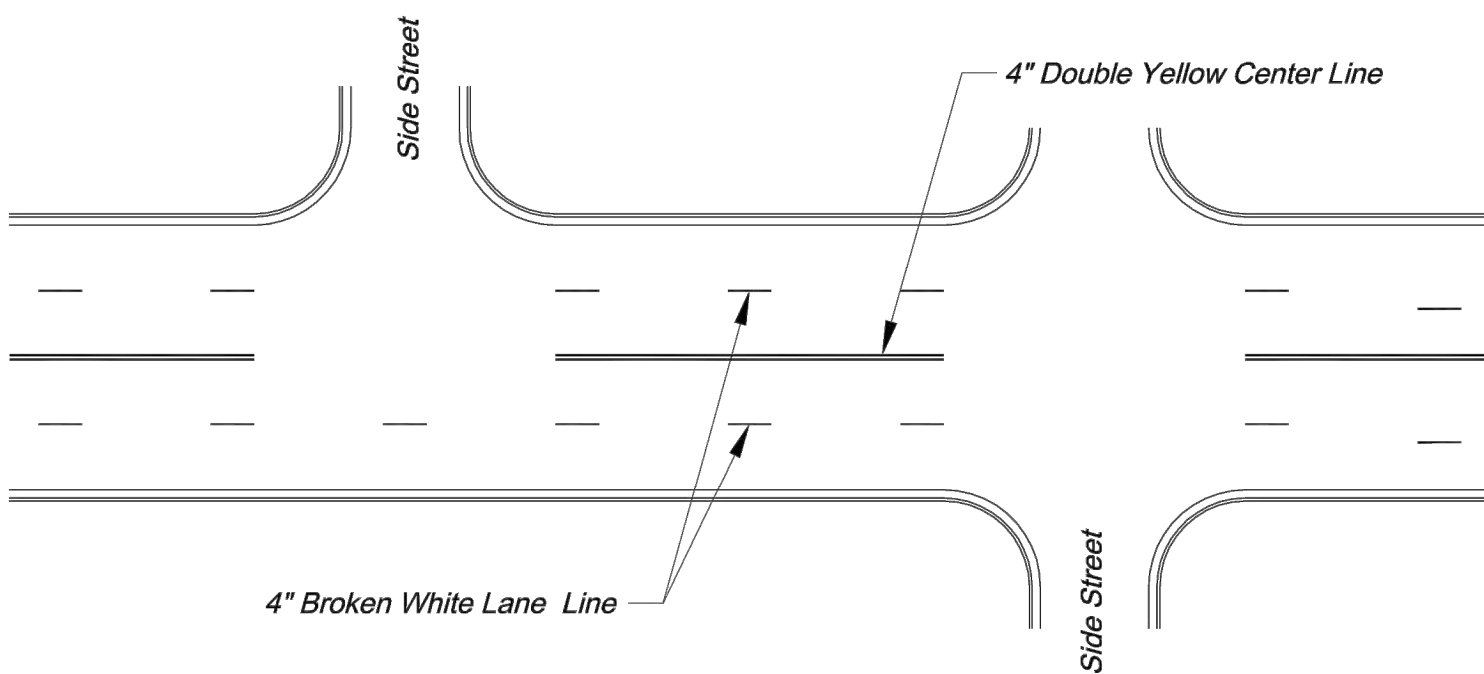
ARROW AND SYMBOL DETAILS

- NOTES:
1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
 2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.

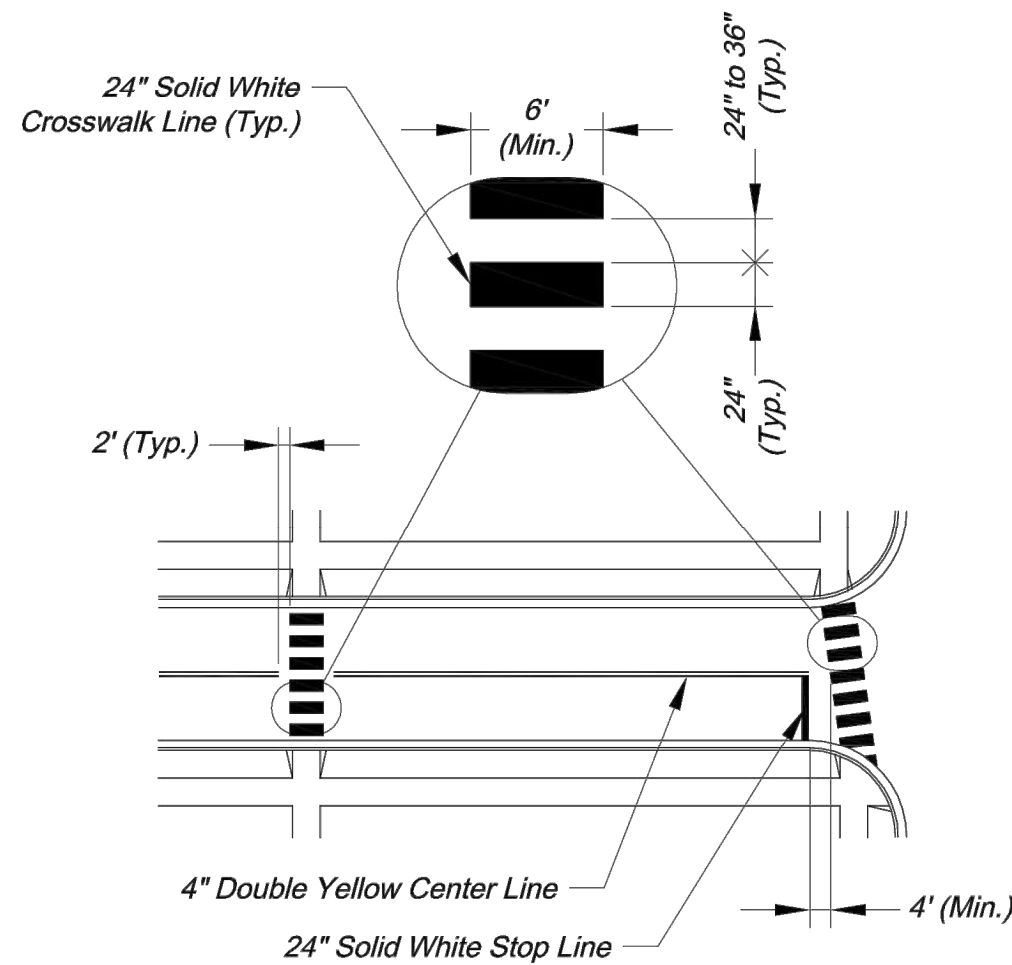


TYPICAL INTERSECTION MARKINGS

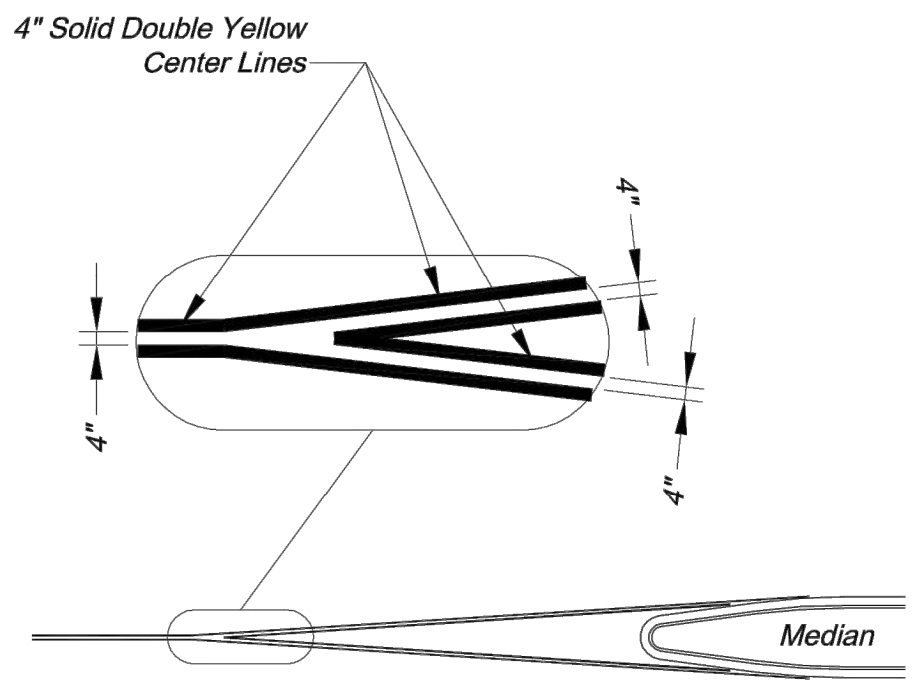
- NOTES:
1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
 2. Stop lines are required at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY



TYPICAL MIDBLOCK OR SCHOOL CROSS WALK



TYPICAL MEDIAN NOSE CENTER LINE DETAIL

- PAVEMENT MARKING GENERAL NOTES:
1. All pavement markings shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
 2. All words and symbols shall conform to the latest edition of *Standard Alphabets for Highway Signs and Pavement Markings* printed by the U.S. Department of Transportation, Federal Highway Administration.
 3. Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
 4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
 5. The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
 6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
 7. Edge lines shall be marked on all non-curbed streets.

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ENGINEERING DIVISION
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ROADWAY MARKING DETAILS

Sheet Name: STANDARD DRAWING PM-1

Drawn By: AS

Checked By: JW

Date: 09/09/2009

Project#

1 OF 2

1

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\127205700.dwg Layout: 78 Pavement Marking & Signing Details -- Thursday April 06, 2023, 3:46pm -- Copyright 2023, George Butler Associates, Inc.

Pavement Marking & Signing Details

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING



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Lenexa, Kansas 66219
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www.gbateam.com

DATE:	6-25-2020
DESIGN BY:	DJM
DRAWN BY:	CMN
PROJECT NO.:	12720
SHEET NO.	TOTAL SHEETS
78	104

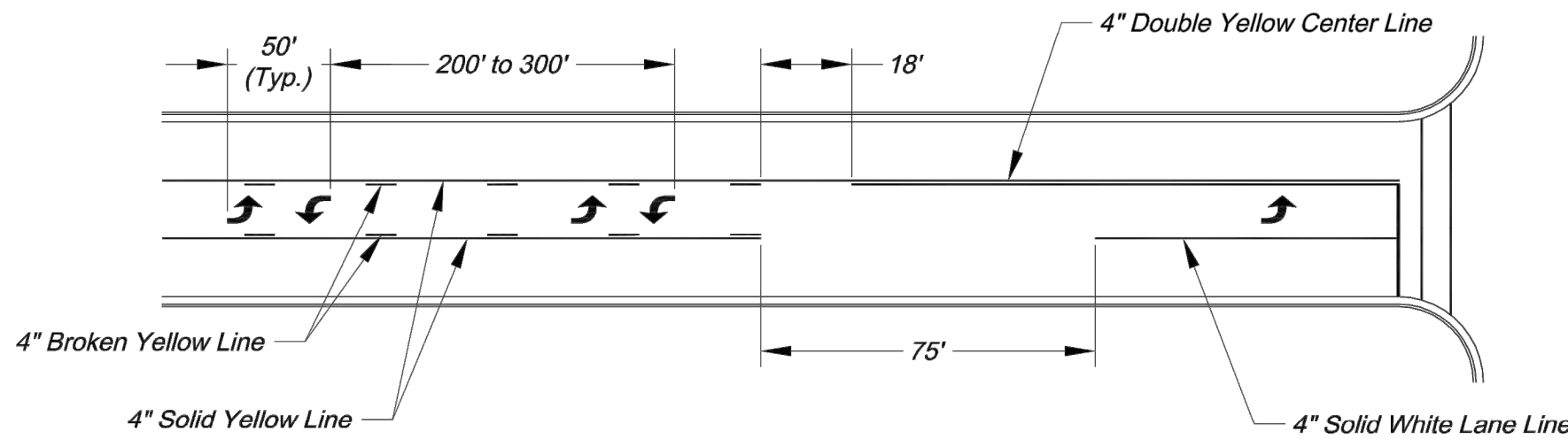
Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

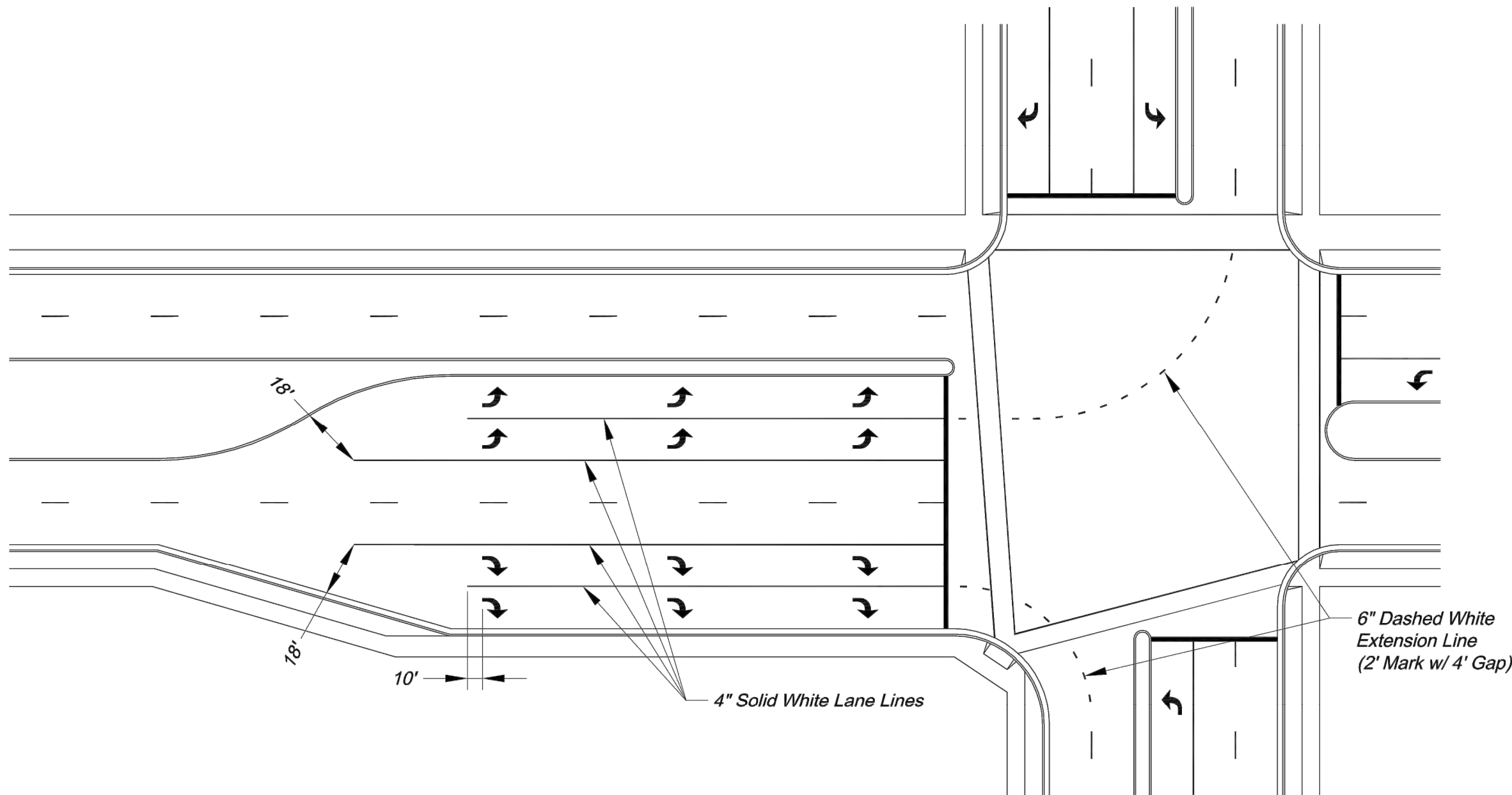
NO.	DATE
8	6/24/21
10	9/30/22

REVISIONS	BY	APPROVED
Wiring Diagram Updates		
Record Drawings		

As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

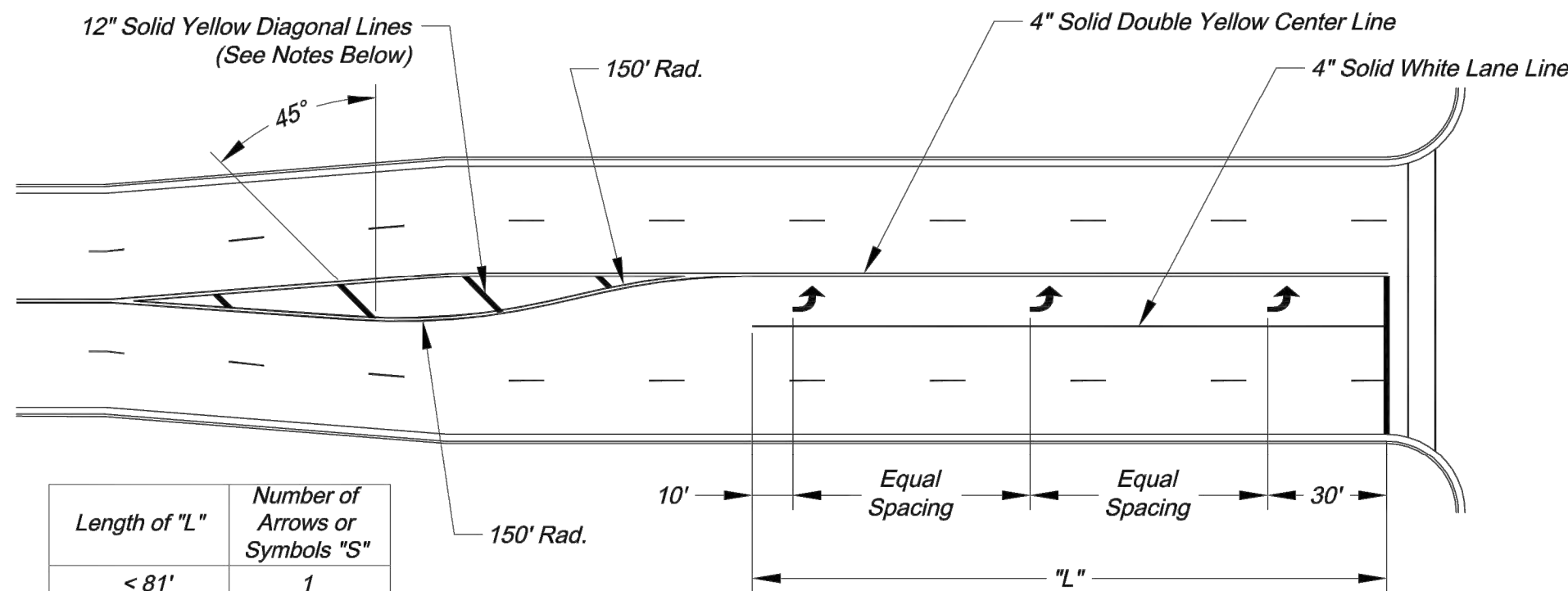


TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE



TYPICAL DUAL TURN LANE MARKINGS

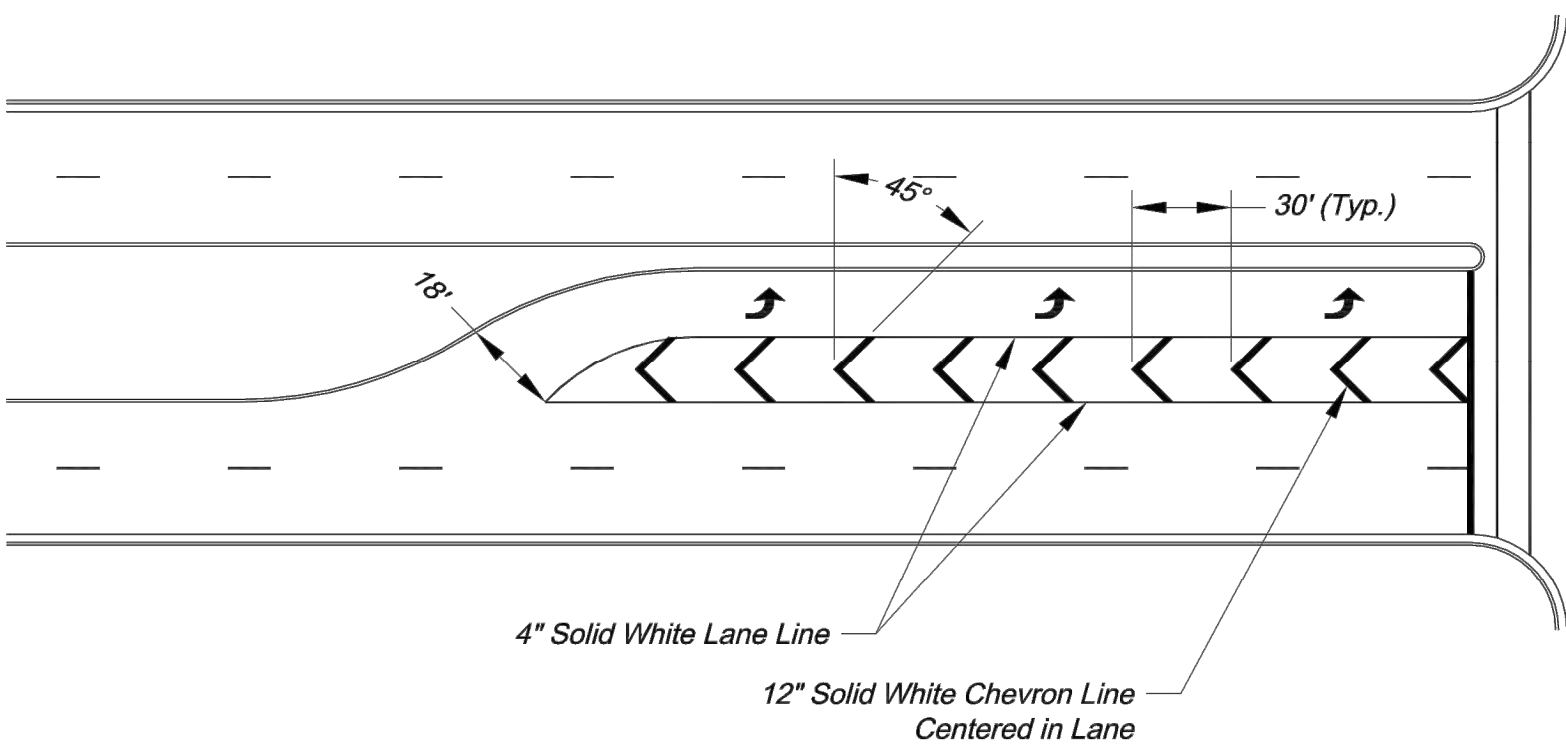
NOTE:
1. Dashed extension lines shall not extend through crosswalks.



Length of "L"	Number of Arrows or Symbols "S"
< 81'	1
81' - 120'	2
121' - 200'	3
201' - 280'	4
281' - 360'	5
361' - 440'	6

TYPICAL TURN LANE MARKINGS

NOTES:
1. Diagonal lines are required between centerlines if the width of the area between the center lines is greater than 12' and/or the length of the area between center lines is greater than 250'.
2. Diagonal lines should be spaced at 5' increments, equal to the posted speed limit.
3. Equal Spacing is calculated as $(L - 40) / (S - 1)$.
4. When a through lane of traffic terminates as a mandatory turn lane, Arrow and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrows.



TYPICAL STRIPED OUT TURN LANE MARKINGS

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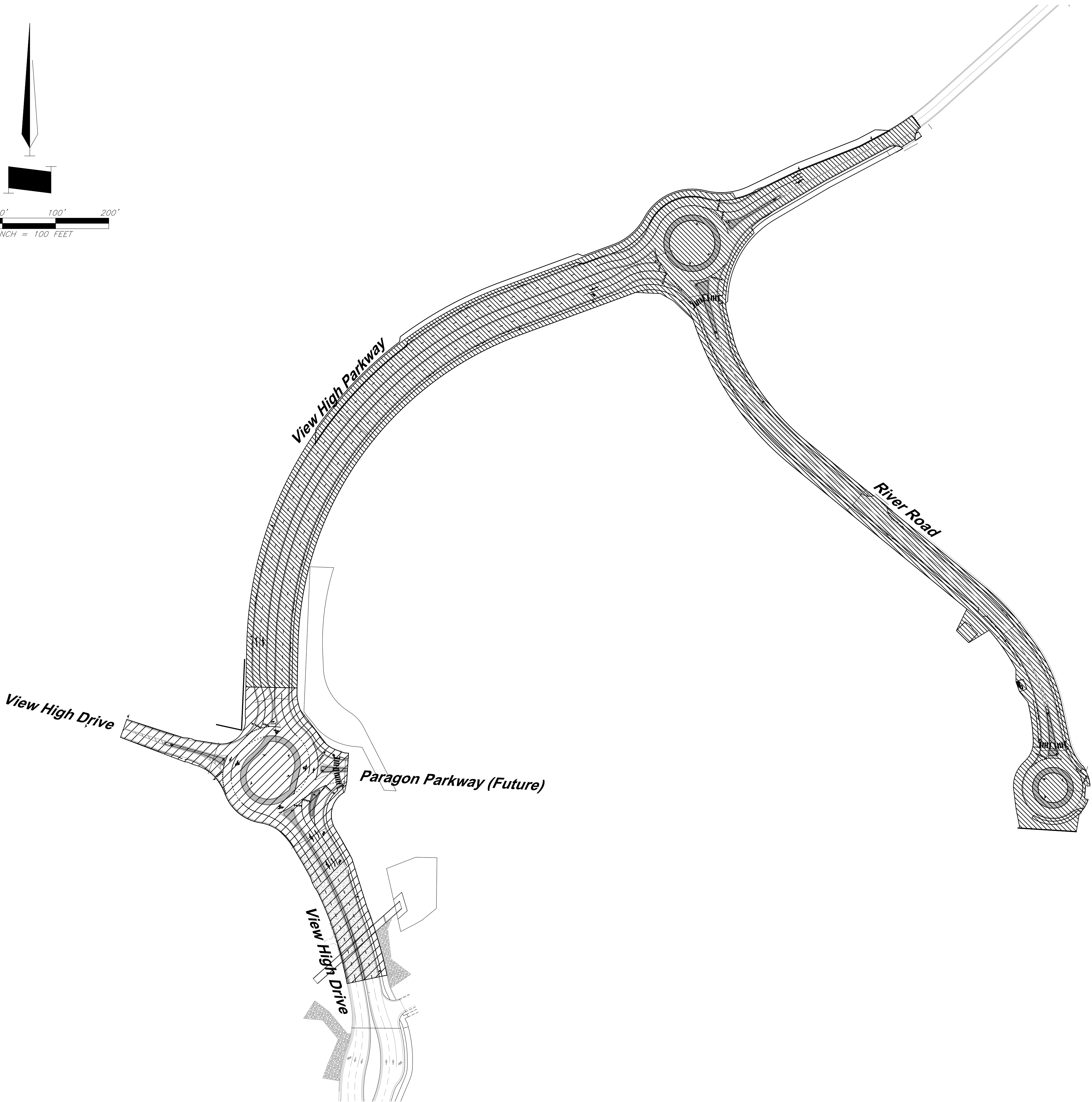
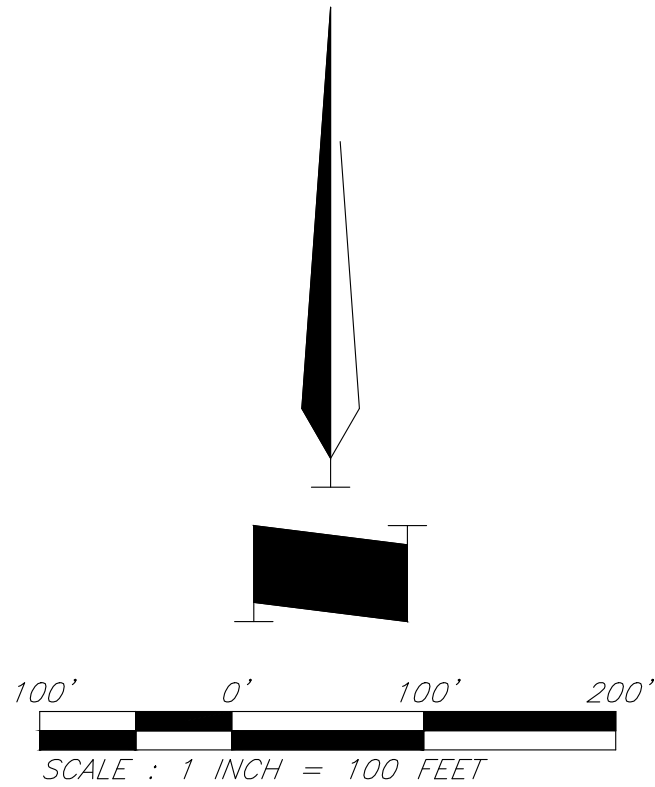
Project: INTERSECTION MARKING DETAILS
Sheet Name: STANDARD DRAWING PM-2

Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#

2 OF 2

2

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5400.dwg Layout: 79 Construction Sequencing Plan -- Thursday, April 06, 2023, 3:49pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA

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DATE: 6-25-2020	
DESIGN BY: DJM	
DRAWN BY: CMN	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
79	104

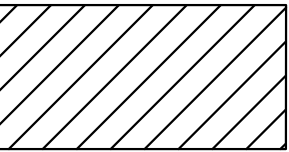
Street and Storm Sewer Plans

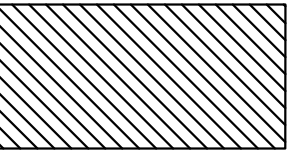
Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

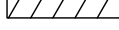
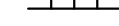
As-Built: "480-90 100.10", "4-80" 1.15% slope; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

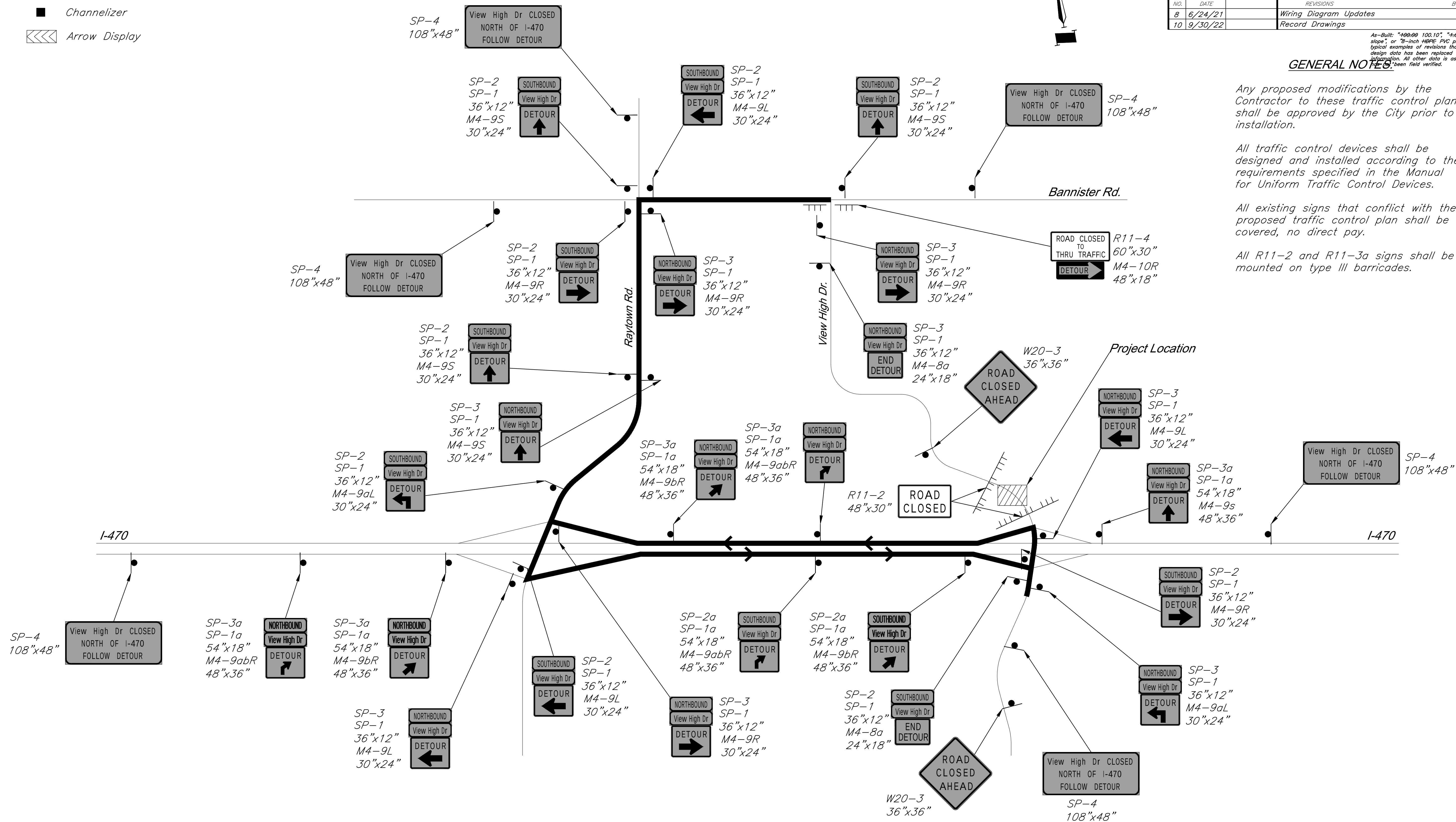
 Phase 1 Work Area

 Phase 2 Work Area

Construction Sequencing Plan

LEGEND

- | | |
|---|--|
|  | <i>Construction Area</i> |
|  | <i>Temporary Construction Sign</i> |
|  | <i>Type III Barricade</i> |
|  | <i>ADA-Compliant Type II Barricade</i> |
|  | <i>Channelizer</i> |
|  | <i>Arrow Display</i> |



GENERAL NOTES

Any proposed modifications by the Contractor to these traffic control plans shall be approved by the City prior to installation.

All traffic control devices shall be designed and installed according to the requirements specified in the Manual for Uniform Traffic Control Devices.

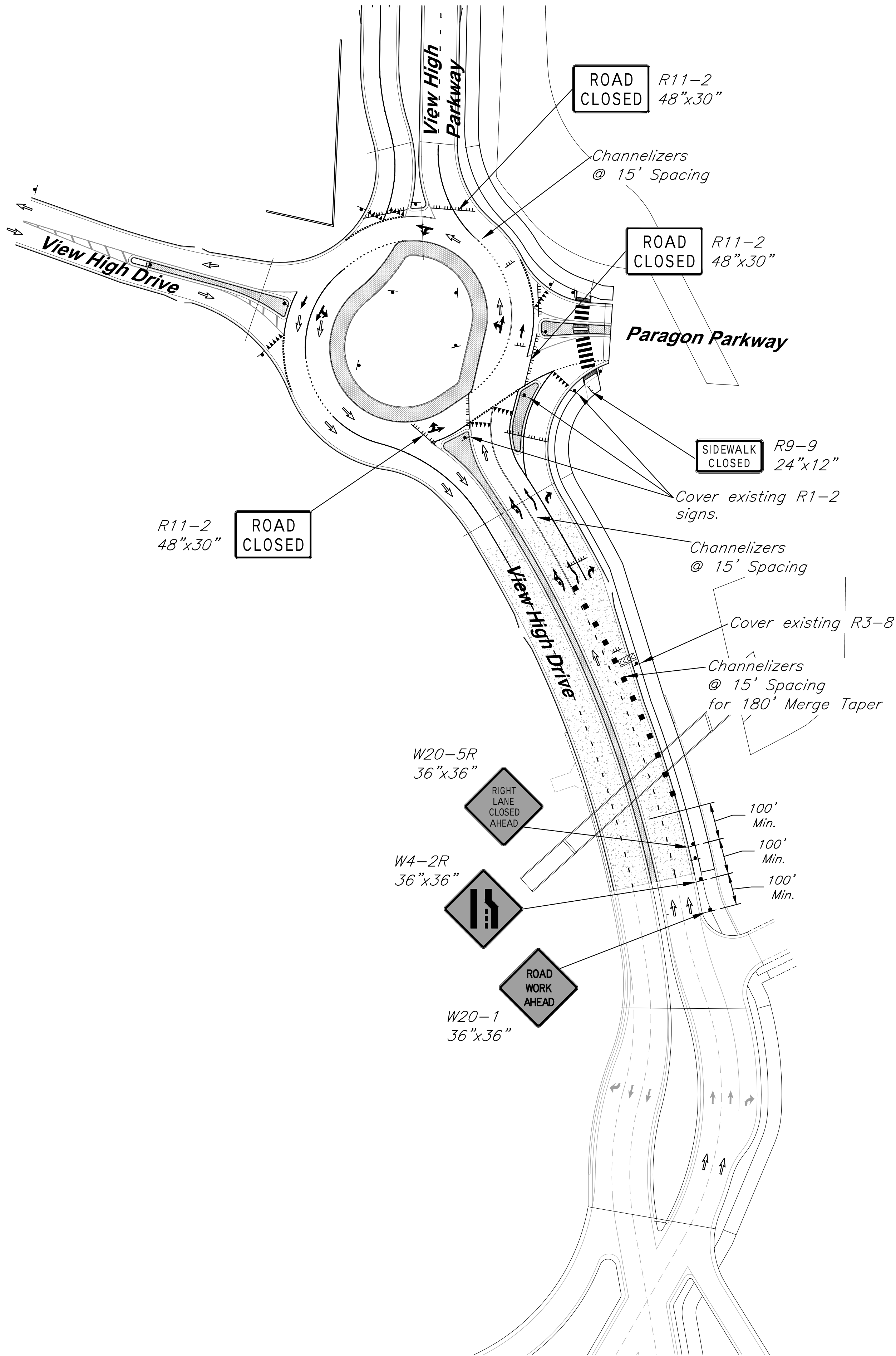
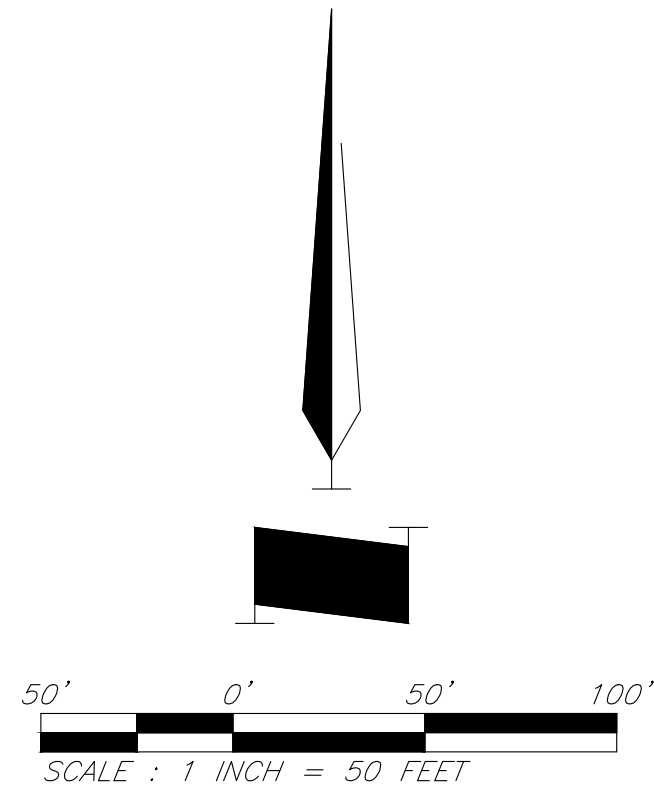
All existing signs that conflict with the proposed traffic control plan shall be covered, no direct pay.

All R11-2 and R11-3a signs shall be mounted on type III barricades.

As-Built: "~~100.00~~ 100.10", "~~1.00%~~ 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Traffic Control Detour

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015400.dwg Layout: 81 Traffic Control Plan -- Thursday April 06, 2023 3:49pm -- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020

DESIGN BY: ###

DRAWN BY: ###

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
81	104

Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

- LEGEND**
- Construction Area
 - Temporary Construction Sign
 - Type III Barricade
 - ADA-Compliant Type II Barricade
 - Channelizer
 - Arrow Display
 - Direction of Travel

GENERAL NOTES:

Any proposed modifications by the Contractor to these traffic control plans shall be approved by the City prior to installation.

All traffic control devices shall be designed and installed according to the requirements specified in the Manual for Uniform Traffic Control Devices.

All existing signs that conflict with the proposed traffic control plan shall be covered, no direct pay.

All R11-2 and R11-3a signs shall be mounted on type III barricades.

Traffic Control Plan

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720S400.dwg Layout: 82 Temporary Traffic Control Details Thursday, April 06, 2023, 3:49pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

Temporary Traffic Control Details

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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020
DESIGN BY: ###
DRAWN BY: ###
PROJECT NO.: 12720
SHEET NO. TOTAL SHEETS
82 104

Christopher Novosel
Professional Engineer
License No. 2018024421

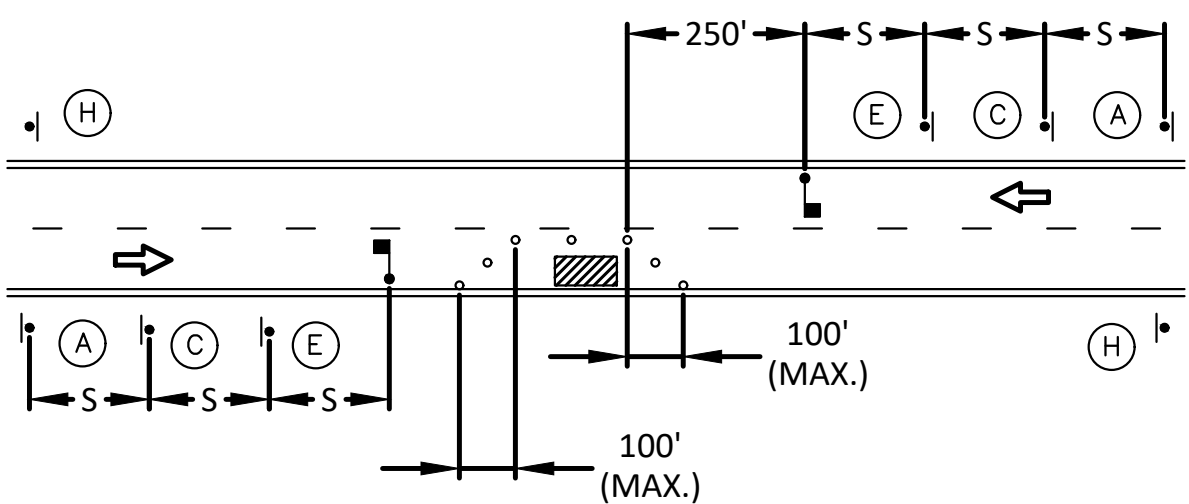
Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO. DATE
8 6/24/21
10 9/30/22

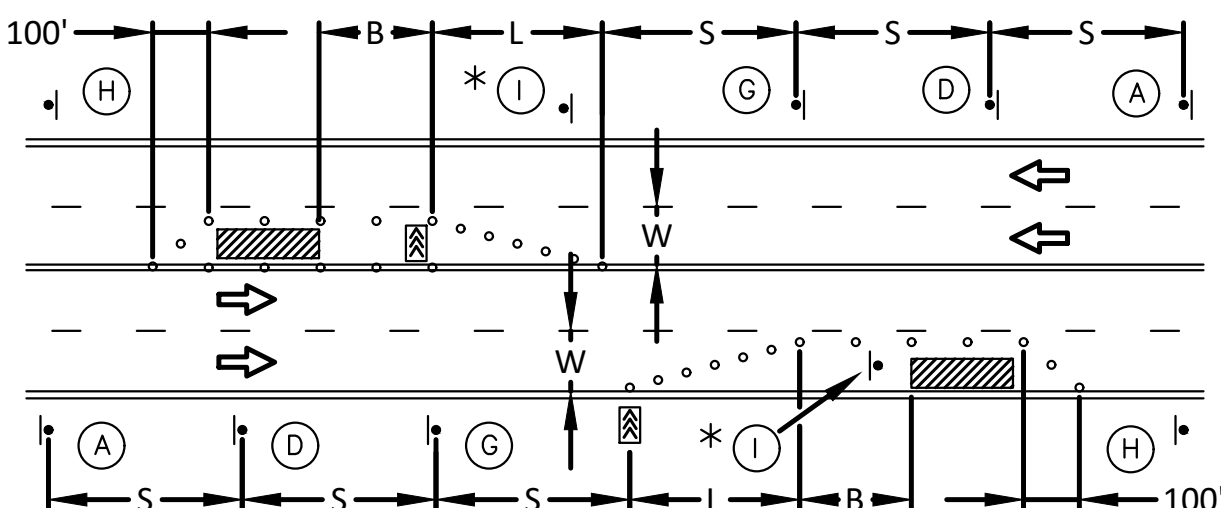
REVISIONS BY APPROVED
Wiring Diagram Updates
Record Drawings

SYMBOL LEGEND

- WORK AREA
- SIGN
- BARRICADE
- DIRECTION OF TRAVEL
- CHANNELIZER
- ARROW PANEL
- FLAGGER

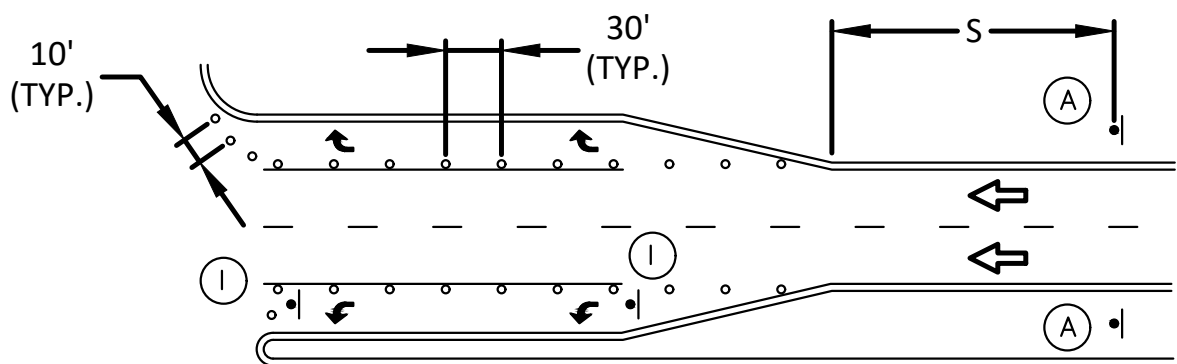


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

* INSTALL SIGNS EVERY 200 FEET THROUGHOUT THE CLOSED LANE OR AS NEEDED



TURN LANE CLOSURE

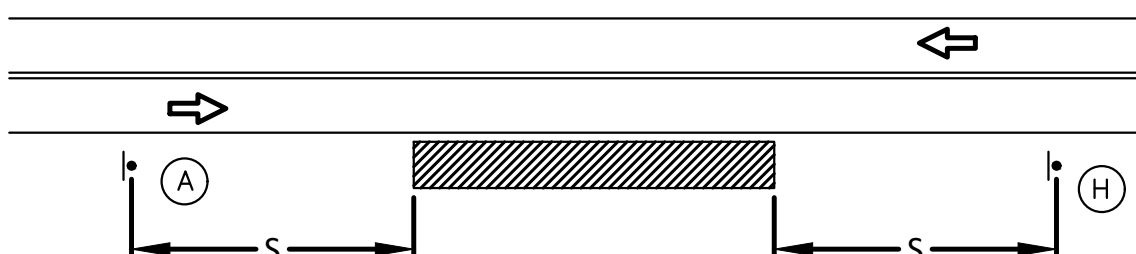
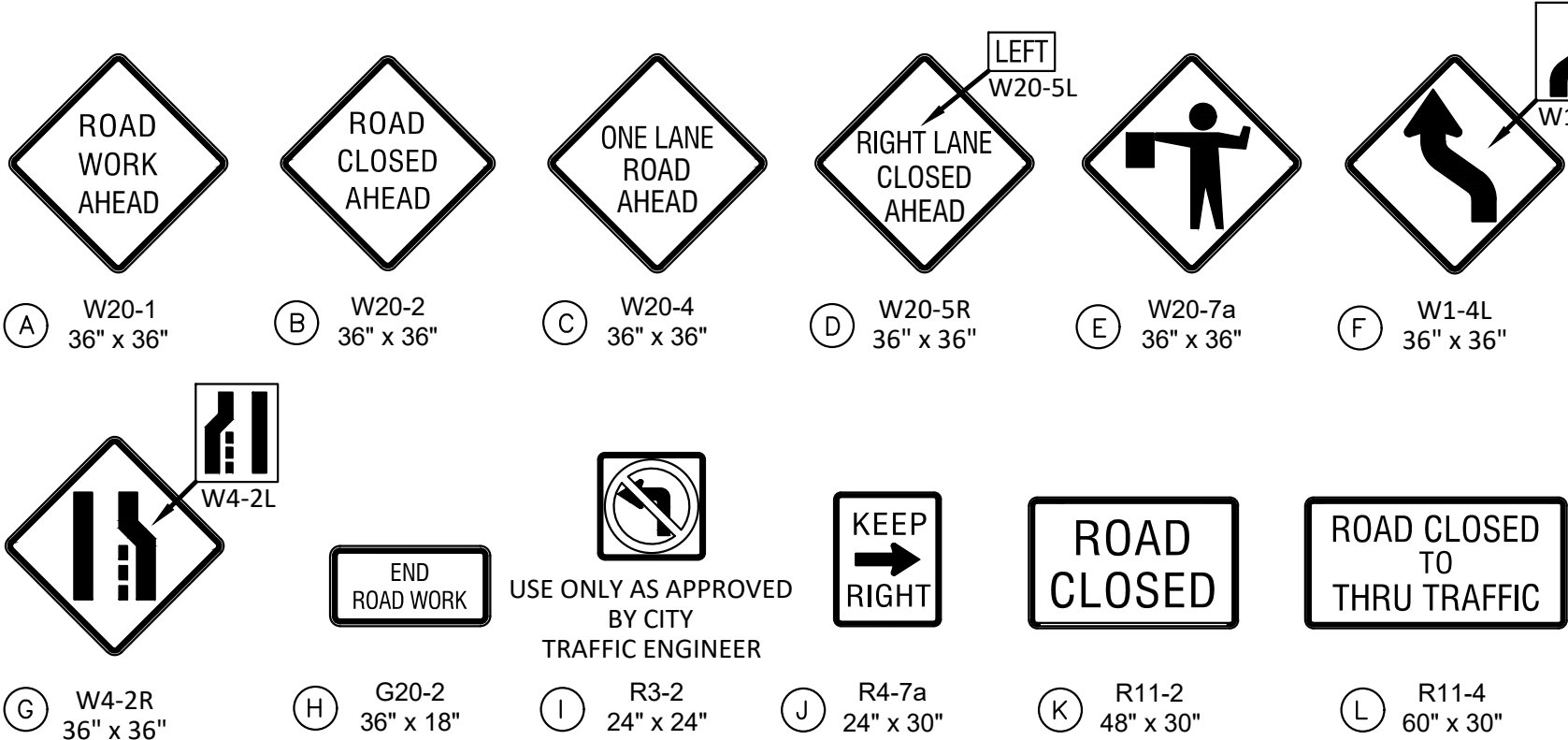
SIGN SPACING "S"	
SPEED LIMIT (MPH)	SPACING (FEET)
25	100
30-35	250
≥ 40	350

TAPER DIMENSIONS (FEET)				
SPEED LIMIT (MPH)	MINIMUM TAPER LENGTH "L", PER LANE WIDTH "W"			MINIMUM NUMBER OF CHANNELIZERS
25	10	11	12	6
30	105	115	125	7
35	150	165	180	8
40	205	225	245	9
45	270	295	320	13

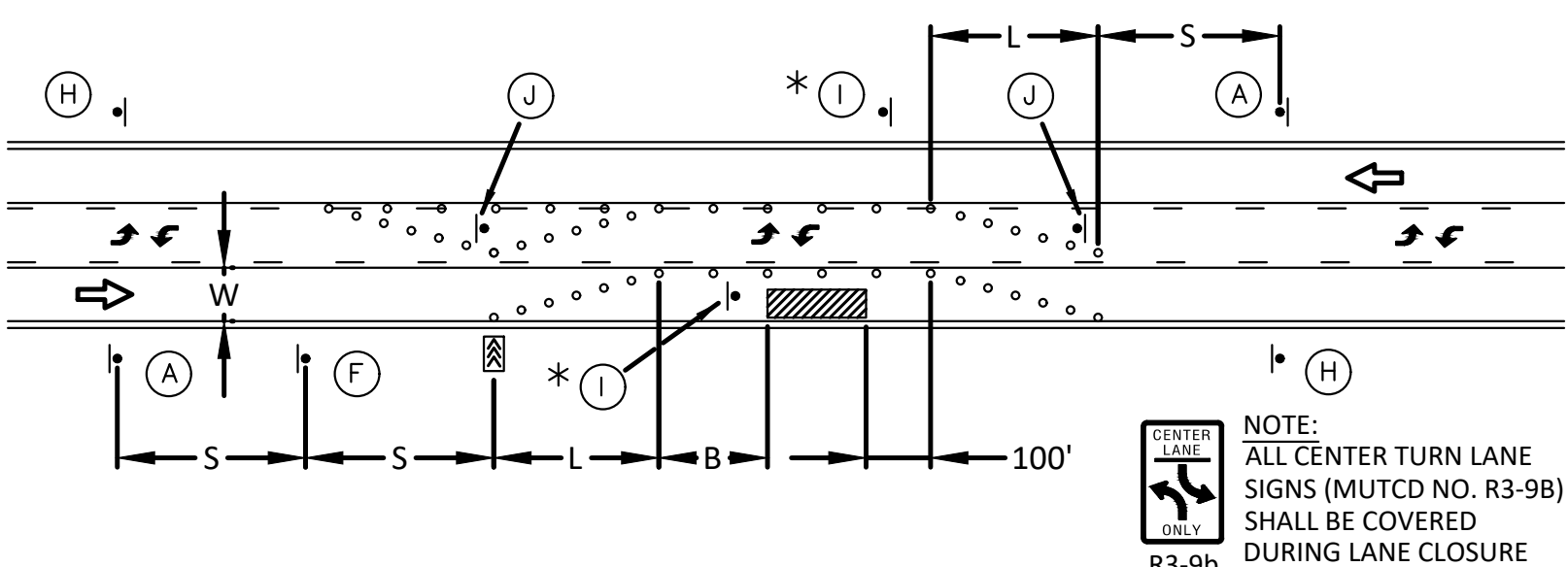
GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE "B"	
SPEED LIMIT (MPH)	LENGTH (FEET)
25	35
30	55
35	85
40	120
45	170

MAXIMUM CHANNELIZER SPACING		
SPEED LIMIT (MPH)	WITHIN TAPER (FEET)	OUTSIDE TAPER (FEET)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

SIGN LEGEND

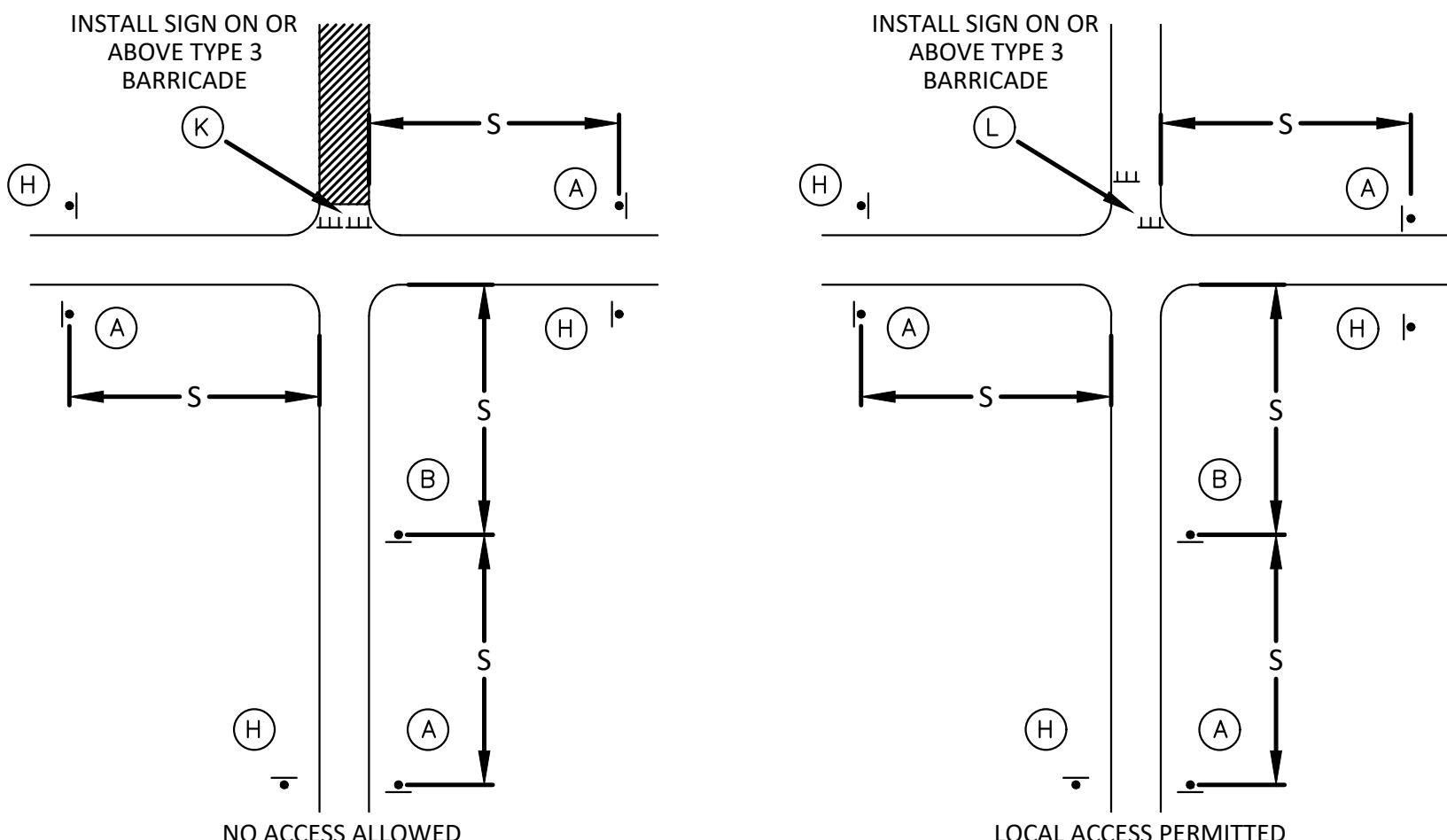


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

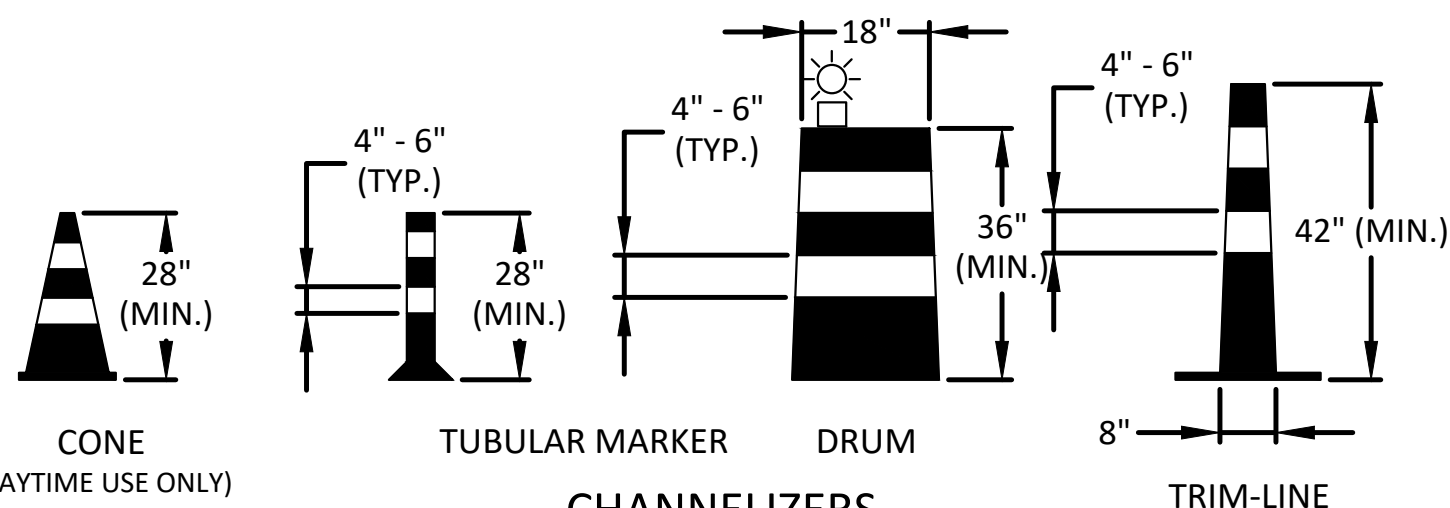
* INSTALL SIGNS EVERY 200 FEET THROUGHOUT THE CLOSED LANE OR AS NEEDED



TYPICAL STREET CLOSURE

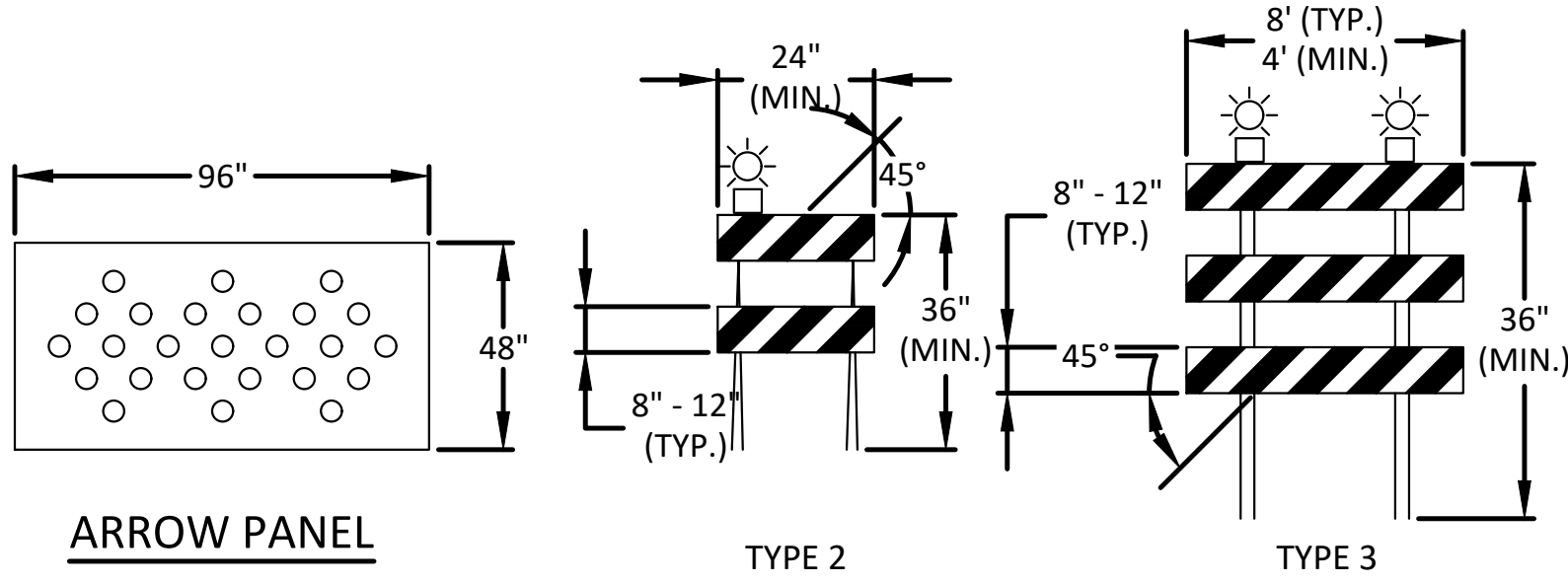
GENERAL NOTES:

- ALL SIGNS, BARRICADES, CHANNELIZERS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES SHALL BE STANDARD IN SIZE, SHAPE, COLOR, AND MESSAGE, IN GOOD CONDITION, AND RETRO-REFLECTORIZED. ALL SIGNS SHALL BE SECURELY MOUNTED WITH HEIGHT AND LATERAL LOCATION AS DESCRIBED IN THE MUTCD.
- WARNING LIGHTS SHALL BE USED ON BARRICADES IN PLACE AT NIGHT AND ON WARNING SIGNS WHICH ALERT DRIVERS ABOUT A CHANGE IN ALIGNMENT, TRAFFIC CONTROL, LANE CLOSURE, OR ROAD CLOSURE.
- FLAGGERS SHALL BE USED WHERE INDICATED ON THE PLANS, WHERE CONSTRUCTION VEHICLES INTERACT WITH NORMAL TRAFFIC, OR WHERE CONSTRUCTION ACTIVITIES IMPOSE A RESTRICTION ON TRAFFIC, AS DIRECTED BY THE CITY TRAFFIC ENGINEER. WHERE FLAGGERS ARE USED, ADVANCE SIGNING SHALL BE ERCTED AS SHOWN IN THE DETAILS OR AS SPECIFIED IN THE MUTCD. FLAGGERS SHALL MEET THE REQUIREMENTS IN THE MUTCD IN REGARD TO CHARACTER, TRAINING, ATTIRE, AND BEHAVIOR.
- TRIM-LINES ARE THE CITY'S PREFERRED CHANNELIZING DEVICE. CONES MAY NOT BE USED AT NIGHTTIME.
- TRAFFIC CONTROL DEVICES NOT IN USE OR NOT APPLICABLE SHALL BE EITHER COVERED OR REMOVED FROM THE WORK AREA.
- THE CONTRACTOR SHALL USE BARRICADES, STREET PLATES, OR FENCING AS NEEDED TO EFFECTIVELY SHIELD PEDESTRIAN AND VEHICULAR TRAFFIC FROM EXPOSED OBJECTS, EXCAVATIONS, AND CONSTRUCTION ACTIVITIES.
- ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AND SIDE STREETS UNLESS NOTED OTHERWISE ON THE PLANS.
- NO STREET SHALL BE CLOSED WITHOUT THE APPROVAL OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT LEAST 7 DAYS IN ADVANCE OF ANY STREET CLOSURE. IF A DETOUR ROUTE AROUND THE CLOSURE IS TO BE PROVIDED, ALL DETOUR SIGNING SHALL BE AS SHOWN ON A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
- CONSTRUCTION VEHICLES PARKED ALONG STREETS SHALL BE LOCATED WITHIN THE WORK AREA (TRAFFIC CONTROL) OR WHERE OTHERWISE NORMALLY PERMITTED. CONSTRUCTION MATERIALS, INCLUDING TRAFFIC CONTROL AND VEHICLES SHALL NOT RESTRICT SIGHT DISTANCE FOR VEHICLES EXITING AT STREETS OR DRIVES.
- CONSTRUCTION MATERIALS SHALL BE KEPT OFF OF SIDEWALKS, CONSOLIDATED IN ONE LOCATION WITHIN CITY RIGHT-OF-WAY, AND REMOVED DAILY UNLESS OTHERWISE APPROVED BY THE INSPECTOR. DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS ON STREETS AND SIDEWALKS SHALL BE REMOVED IMMEDIATELY.
- THE CONTRACTOR SHALL NOT PERFORM ANY WORK THAT WILL RESTRICT VEHICULAR TRAFFIC IN ANY WAY BETWEEN THE HOURS OF 7:00 A.M. AND 9:00 A.M. OR 4:00 P.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS.
- ALL TRAVEL LANES SHOULD BE AT LEAST 11 FEET WIDE UNLESS OTHERWISE AUTHORIZED BY THE CITY TRAFFIC ENGINEER. A "NARROW LANES" SIGN SHALL BE INSTALLED IN ADVANCE OF A LANE WIDTH REDUCTION TO LESS THAN 11 FEET.
- ALL EDGE DROP-OFFS OF MORE THAN 2 INCHES AND LESS THAN 4 INCHES SHOULD BE PROTECTED BY A WEDGE OR BARRIER AND ALL EDGE DROP-OFFS GREATER THAN 4 INCHES SHALL HAVE EDGE PROTECTION (SEE TRAFFIC CONTROL SPECIFICATIONS FOR EDGE TREATMENT REQUIREMENTS).
- THE "WORKERS" SYMBOLIC SIGN (MUTCD NO. W21-1A) MAY BE USED INSTEAD OF THE "ROAD WORK AHEAD" SIGN FOR WORK WITH A DURATION OF 12 HOURS OR LESS. THE "END ROAD WORK" SIGN IS NOT REQUIRED TO BE INSTALLED AFTER THE "WORKERS" SIGN.
- NO TRAFFIC SIGNAL SHALL BE ALTERED OR MODIFIED IN ANY WAY WITHOUT A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES ON AN AROUND-THE-CLOCK BASIS, WHETHER OR NOT WORK IS ACTIVELY BEING PURSUED AND ANY DEFICIENCIES NOTED SHALL BE CORRECTED IMMEDIATELY.
- THE TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS ARE MINIMUM REQUIREMENTS ONLY AND DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED. IN NO WAY DO THE REQUIREMENTS SHOWN ON THESE PLANS RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR SELECTING THE PROPER TRAFFIC CONTROL DEVICES AND IMPLEMENTATION PROCEDURES THAT WILL ASSURE THE SAFETY OF DRIVERS, PEDESTRIANS, AND WORKERS AT ALL TIMES.
- SHOULD THE CONTRACTOR FAIL TO ENFORCE THE TRAFFIC CONTROL PLAN OR FAIL TO CLEAN, REPLACE OR OTHERWISE MAINTAIN THE TRAFFIC CONTROL DEVICES WHEN DIRECTED TO DO SO BY THE CITY TRAFFIC ENGINEER OR REPRESENTATIVE, THE CITY MAY TAKE ONE OR MORE OF THE FOLLOWING ACTIONS:
 - EMPLOY ANOTHER AGENCY TO CORRECT DEFICIENCIES IN TRAFFIC CONTROL DEVICES AND DEDUCT THE COST FROM THE CONTRACTOR'S PAY ESTIMATE.
 - STOP THE WORK UNTIL DEFICIENCIES ARE CORRECTED.
 - SUSPEND ALL PAY ESTIMATES UNTIL DEFICIENCIES ARE CORRECTED, OR
 - PLACE THE CONTRACTOR IN DEFAULT.



CHANNELIZERS

NOTE: WHITE BANDS ON BARRICADES AND CHANNELIZERS SHALL BE MADE FROM HIGH INTENSITY SHEETING MATERIAL.



ARROW PANEL

BARRICADES

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: TRAFFIC STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
CITY OF LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: TRF-1 TRAFFIC CONTROL DETAILS

Drawn By: TWS
Checked By: .
Date: 6/2016
Proj. #: .

TRF-1

As-Built: "400-00 100.10", "4-00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Temporary Traffic Control Details

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23 *RFB*

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING



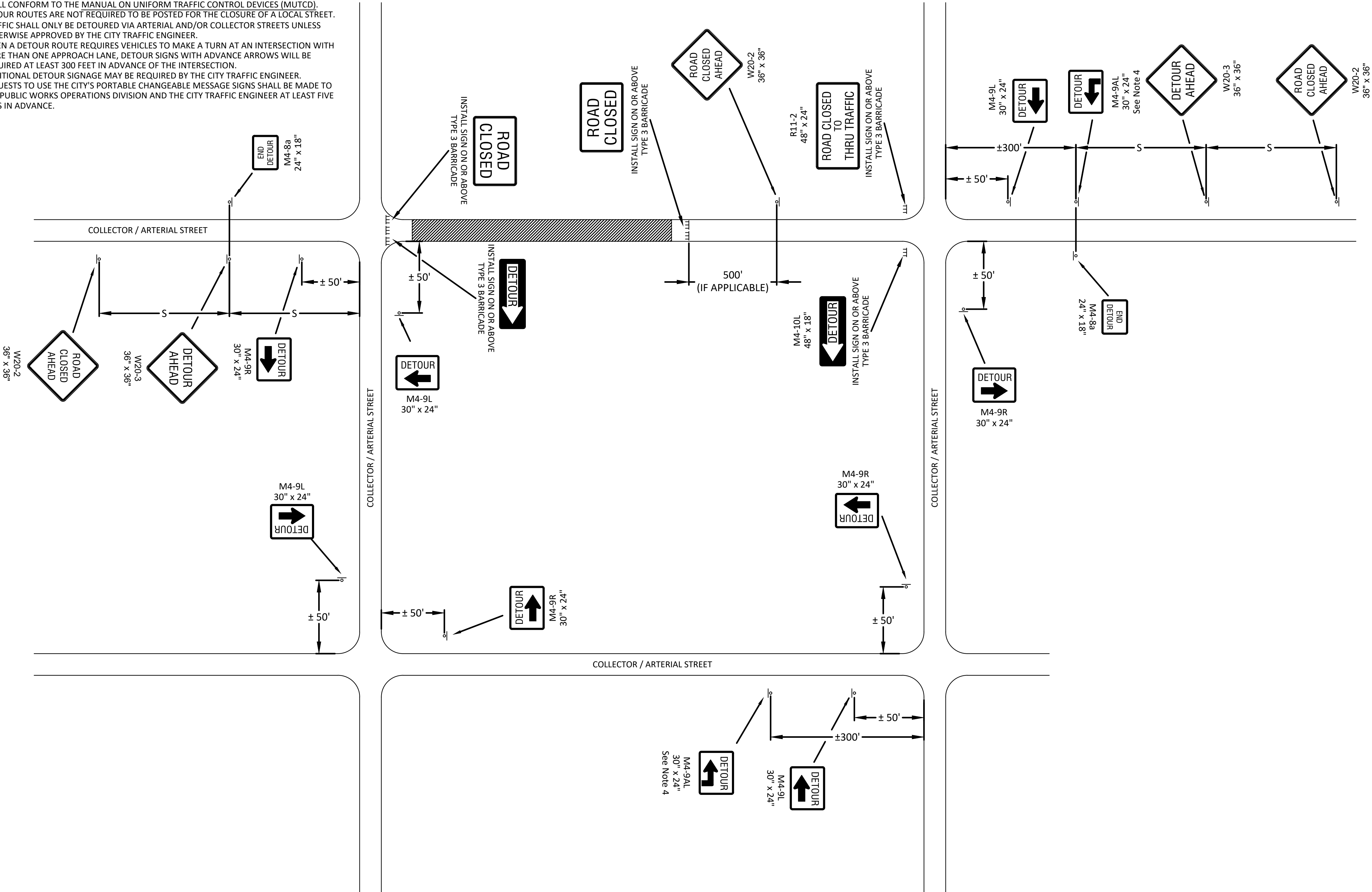
9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020	
DESIGN BY:	
DRAWN BY:	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
83	104

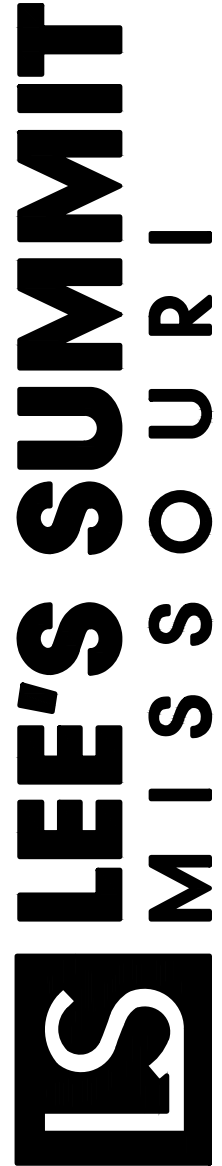
Christopher Novosel Professional Engineer License No. 2018024421		Street and Storm Sewer Plans Paragon Star Development Lee's Summit, Missouri	
NO.	DATE	REVISIONS	BY APPROVED
8	6/24/21	Wiring Diagram Updates	
10	9/30/22	Record Drawings	

DETOUR GENERAL NOTES:

1. ALL SIGNS, BARRICADES, CHANNELIZERS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. DETOUR ROUTES ARE NOT REQUIRED TO BE POSTED FOR THE CLOSURE OF A LOCAL STREET.
3. TRAFFIC SHALL ONLY BE DETOURED VIA ARTERIAL AND/OR COLLECTOR STREETS UNLESS OTHERWISE APPROVED BY THE CITY TRAFFIC ENGINEER.
4. WHEN A DETOUR ROUTE REQUIRES VEHICLES TO MAKE A TURN AT AN INTERSECTION WITH MORE THAN ONE APPROACH LANE, DETOUR SIGNS WITH ADVANCE ARROWS WILL BE REQUIRED AT LEAST 300 FEET IN ADVANCE OF THE INTERSECTION.
5. ADDITIONAL DETOUR SIGNAGE MAY BE REQUIRED BY THE CITY TRAFFIC ENGINEER.
6. REQUESTS TO USE THE CITY'S PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE MADE TO THE PUBLIC WORKS OPERATIONS DIVISION AND THE CITY TRAFFIC ENGINEER AT LEAST FIVE DAYS IN ADVANCE.



As-Built: "400-00 100.10", "4-00W 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.



PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project:	CITY OF LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name:	TRF-2 TYPICAL DETOUR DETAIL
Drawn By:	TWS
Checked By:	.
Date:	6/2016
Proj. #:	.

TRF-2

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015900.dwg Layout: 84 Sight Triangles and Sight Stopping Distances Thursday April 06, 2023, 3:49pm Architect 00212, George Butler Associates, Inc. Architect 00213, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
84	104

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

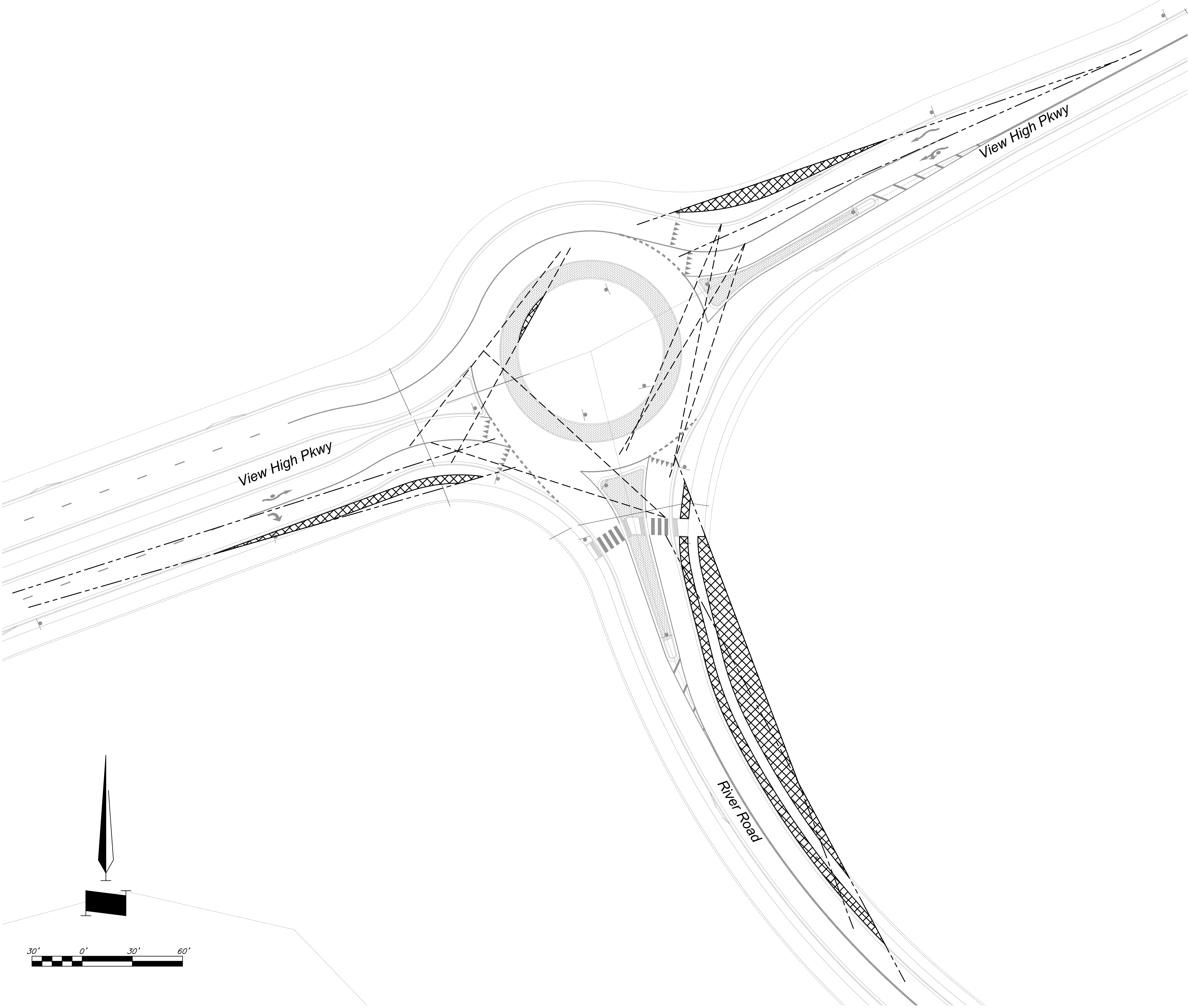
As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

- Stopping Sight Distance
- Intersection Sight Distance
- Low Growth Landscaping Only

Stopping Sight Distances and Sight Triangles

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272075900.dwg Layout: 85 Sight Triangles and Sight Stopping Distances Thursday April 06, 2023, 3:49pm Architect 00212, George Butler Associates, Inc. Architect 00213, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020	
DESIGN BY: SPC	
DRAWN BY: DGL	
PROJECT NO.: 12720	
SHEET NO.	TOTAL SHEETS
85	104

Christopher Novosel
Professional Engineer
License No. 2018024421

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-90 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

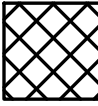
- Stopping Sight Distance
- Intersection Sight Distance
- Low Growth Landscaping Only

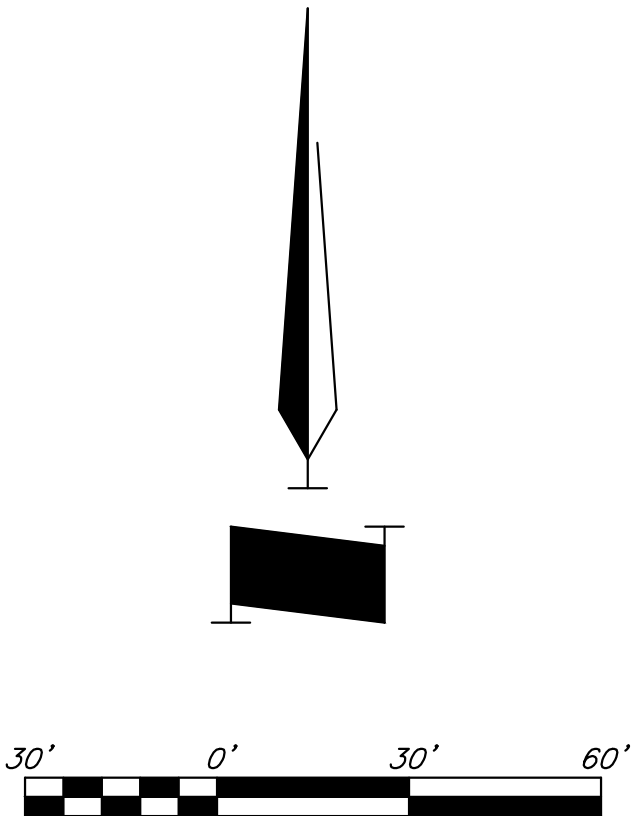
Stopping Sight Distances and Sight Triangles

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015900.dwg Layout: 86 Sight Triangles and Sight Stopping Distances -- Thursday April 06, 2023, 3:49pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



Legend

- Stopping Sight Distance
- Intersection Sight Distance
-  Low Growth Landscaping Only



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Date: 4/7/23 *RJB*

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DCL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
86	104

Street and Storm Sewer Plans

Paragon Star Development

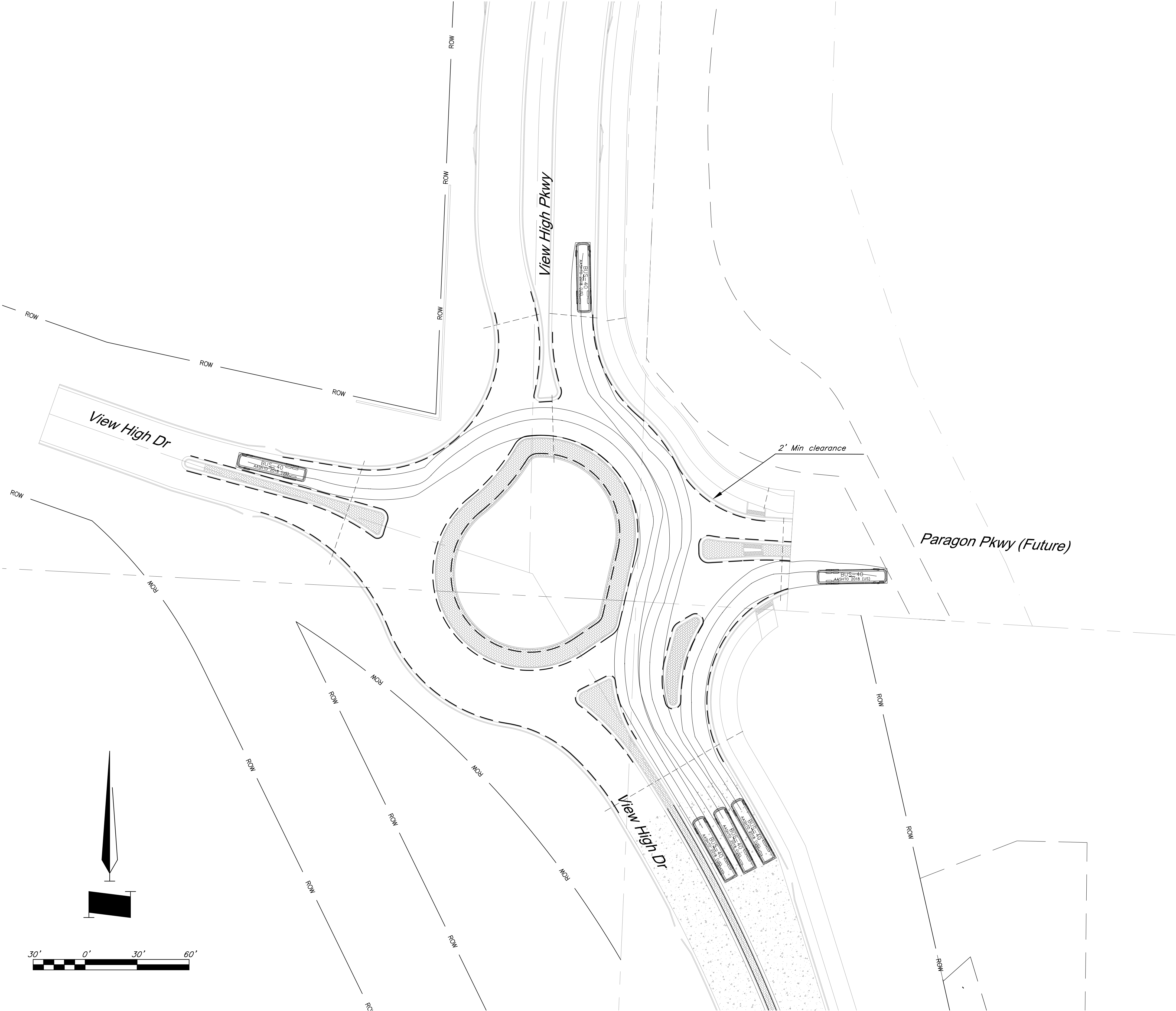
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
8	6/24/21	Wiring Diagram Updates		
10	9/30/22	Record Drawings		

As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Stopping Sight Distances and Sight Triangles

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5901.dwg Layout: 87 Turning Movements 1a - BUS --- Thursday April 06, 2023, 3:49pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.

TOTAL SHEETS

87104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1

1/27/21

Revised Structure Size

2

2/4/21

Retaining Wall Station & Offsets

2

2/26/21

RFI 11

3

3/11/21

RFI 12

4

3/11/21

Revised Line 400

5

4/8/21

Utility Updates

6

5/25/21

Paver Revision

7

6/15/21

Grading Updates

8

6/24/21

Wiring Diagram Updates

9

9/30/21

RFI 15-Irrigation Sleeves

10

9/30/22

Record Drawings

11

4/7/23

Record Drawings
- As-Built: "400-00 100.10", "4-00W 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

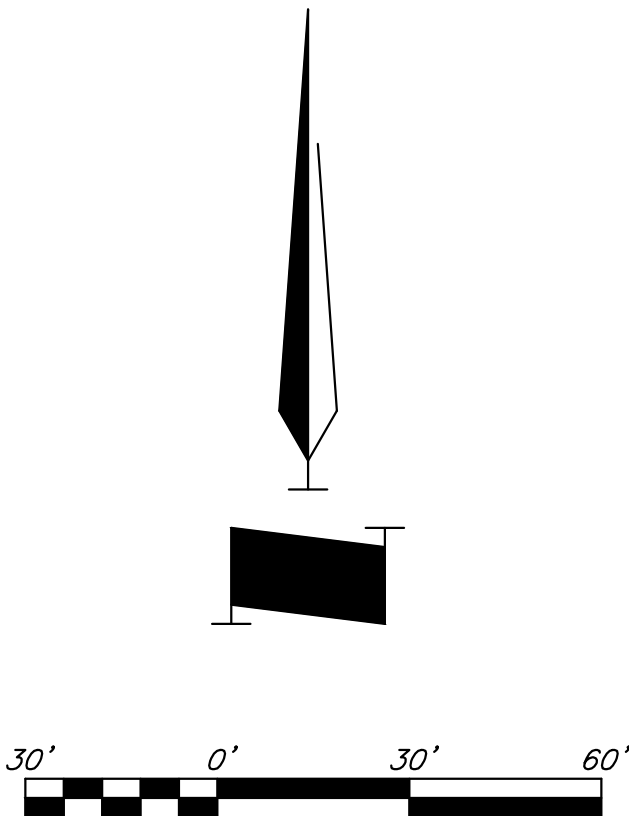
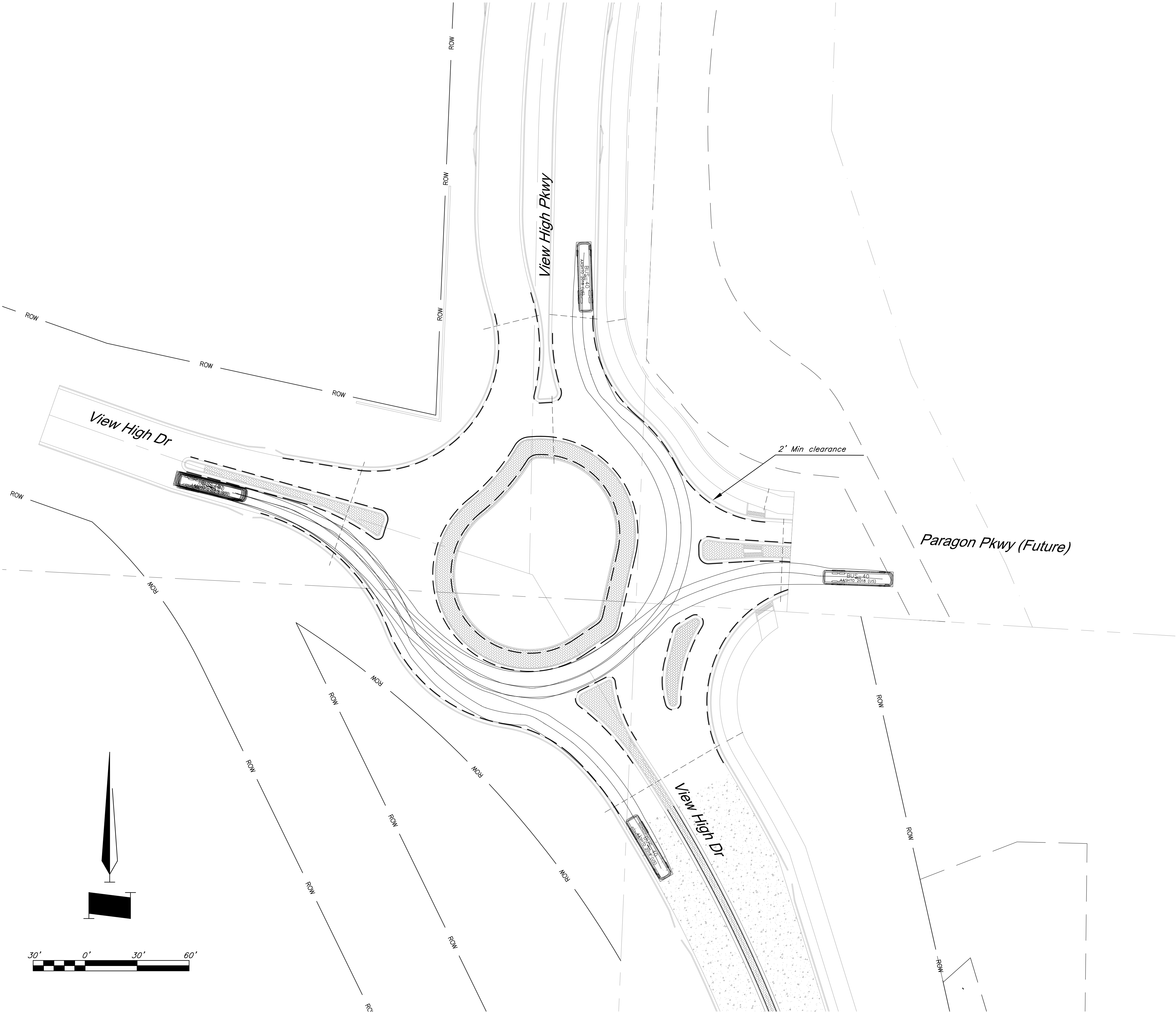
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.

Turning Movements - Northbound 1

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5901.dwg Layout: 88 Turning Movements 1b - BUS --- Thursday April 06, 2023, 3:49pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
88	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

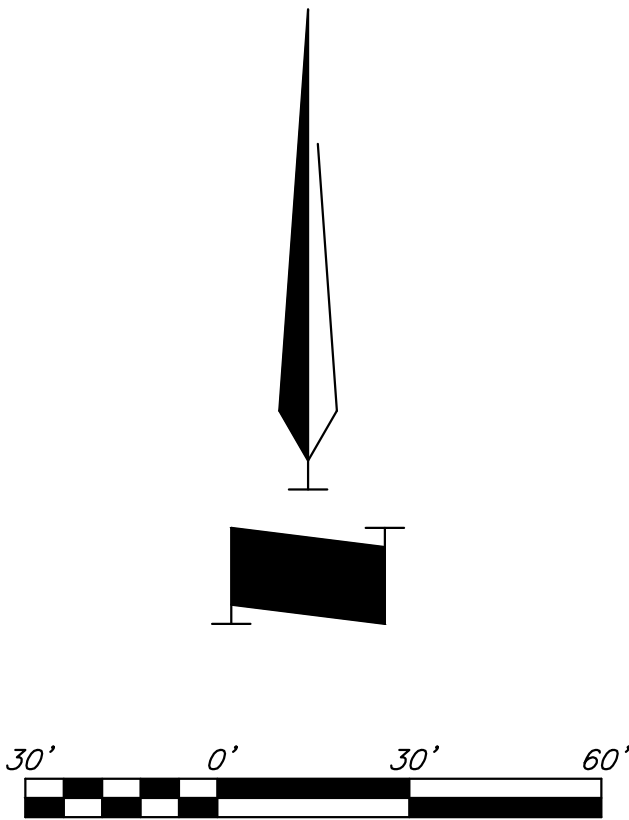
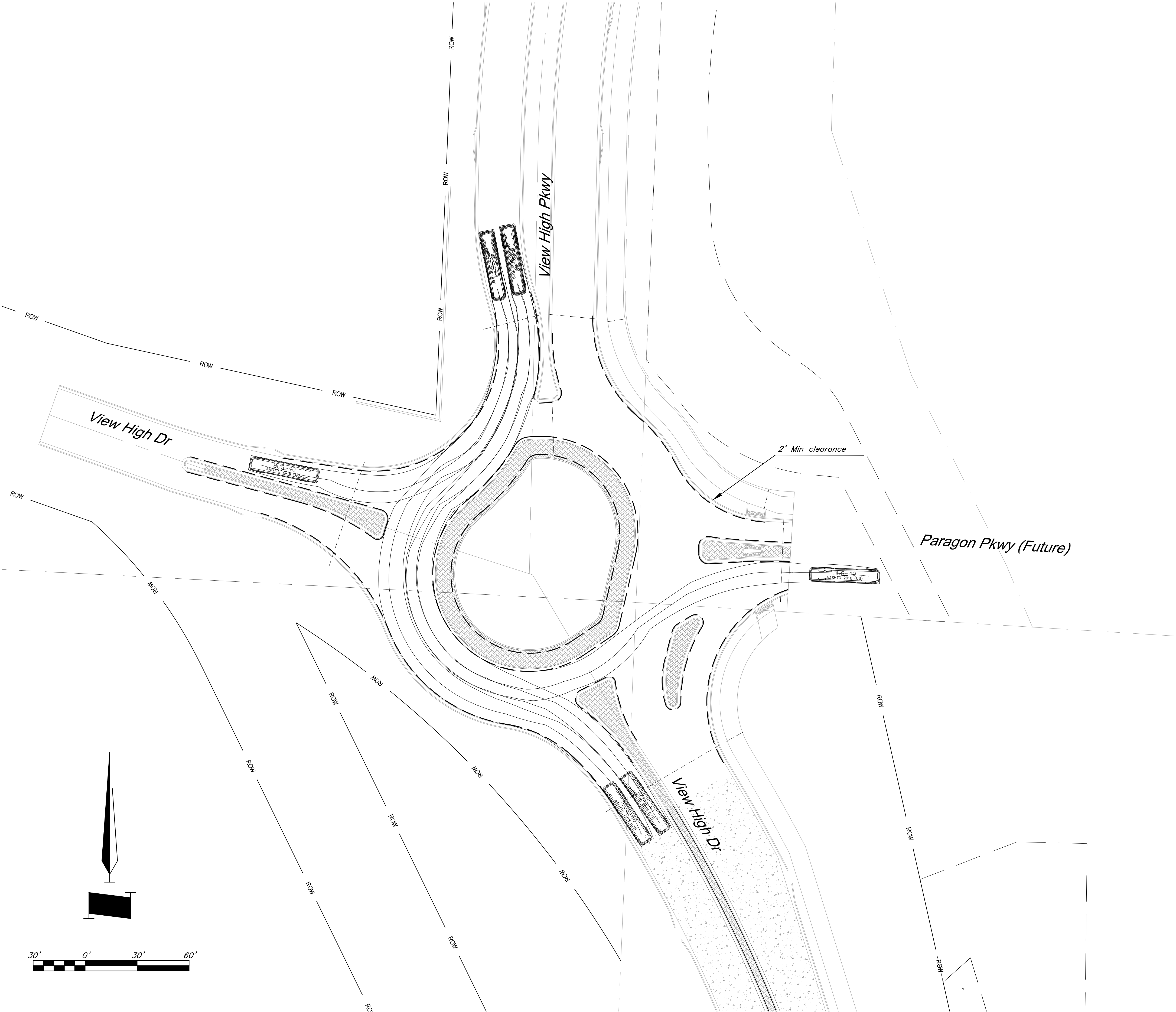
- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
 - 5/25/21 Paver Revision
 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00W 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5901.dwg Layout: 89 Turning Movements 1c - BUS --- Thursday April 06, 2023, 3:49pm --- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
89	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1

1/27/21

Revised Structure Size

2

2/4/21

Retaining Wall Station & Offsets

2

2/26/21

RFI 11

3

3/11/21

RFI 12

4

3/11/21

Revised Line 400

5

4/8/21

Utility Updates

6

5/25/21

Paver Revision

7

6/15/21

Grading Updates

8

6/24/21

Wiring Diagram Updates

9

9/30/21

RFI 15-Irrigation Sleeves

10

9/30/22

Record Drawings

11

4/7/23

Record Drawings
- As-Built: "400-00 100.10", "4-00W 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

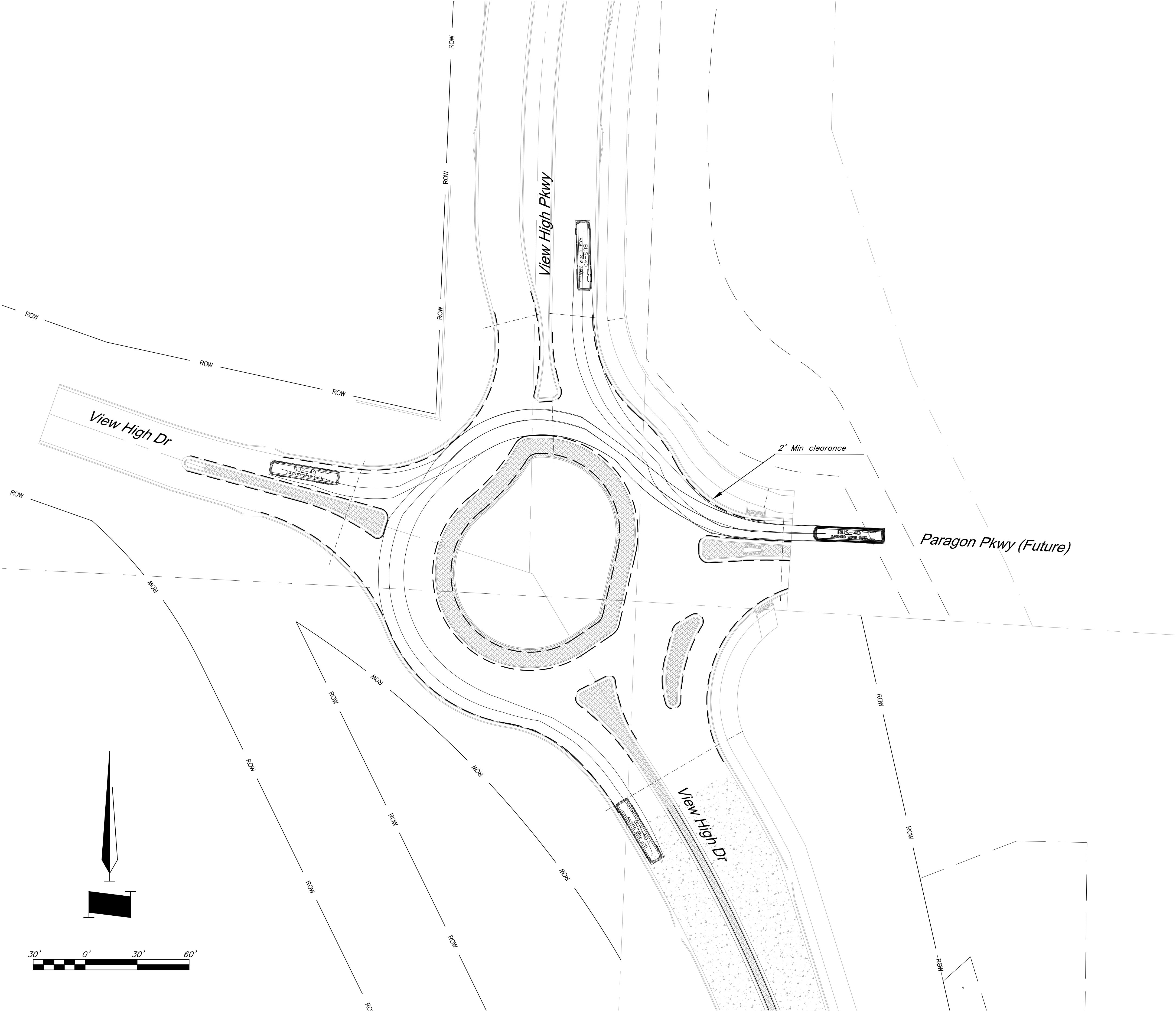
Legend

----- 2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.

Turning Movements - Southbound 1

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5901.dwg Layout: 90 Turning Movements 1d - BUS --- Thursday April 06, 2023, 3:49pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
90	104

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Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
 - 5/25/21 Paver Revision
 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00W 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

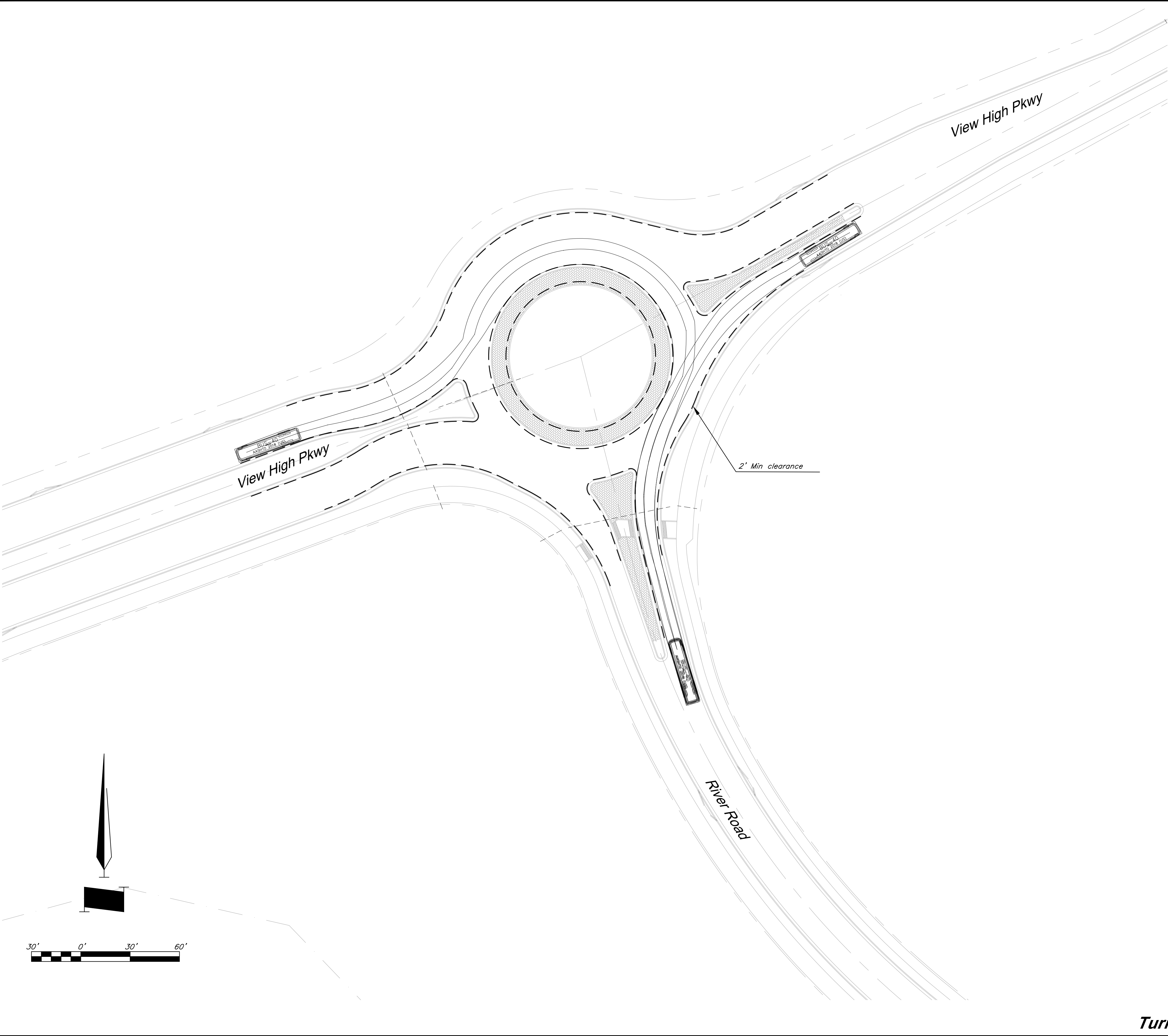
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.

Turning Movements - Westbound 1

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272075901.dwg Layout: 91 Turning Movements 2a - BUS --- Thursday April 06, 2023, 3:49pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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913.492.0400
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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
91	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1 1/27/21 Revised Structure Size

2 2/4/21 Retaining Wall Station & Offsets

2/26/21 RFI 11

3 3/11/21 RFI 12

4 3/11/21 Revised Line 400

5 4/8/21 Utility Updates

6 5/25/21 Paver Revision

7 6/15/21 Grading Updates

8 6/24/21 Wiring Diagram Updates

9 9/30/21 RFI 15-Irrigation Sleeves

10 9/30/22 Record Drawings

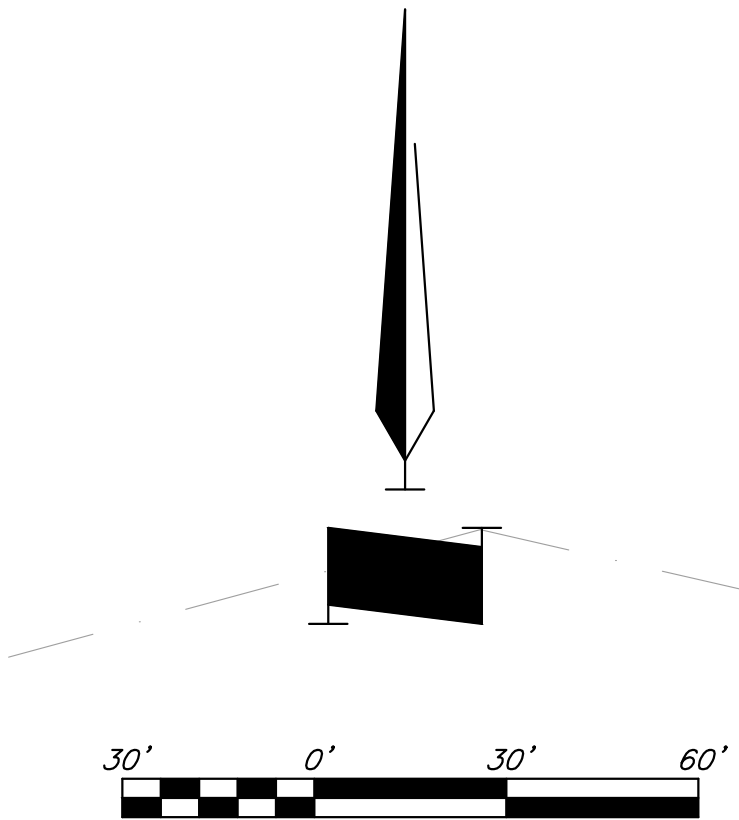
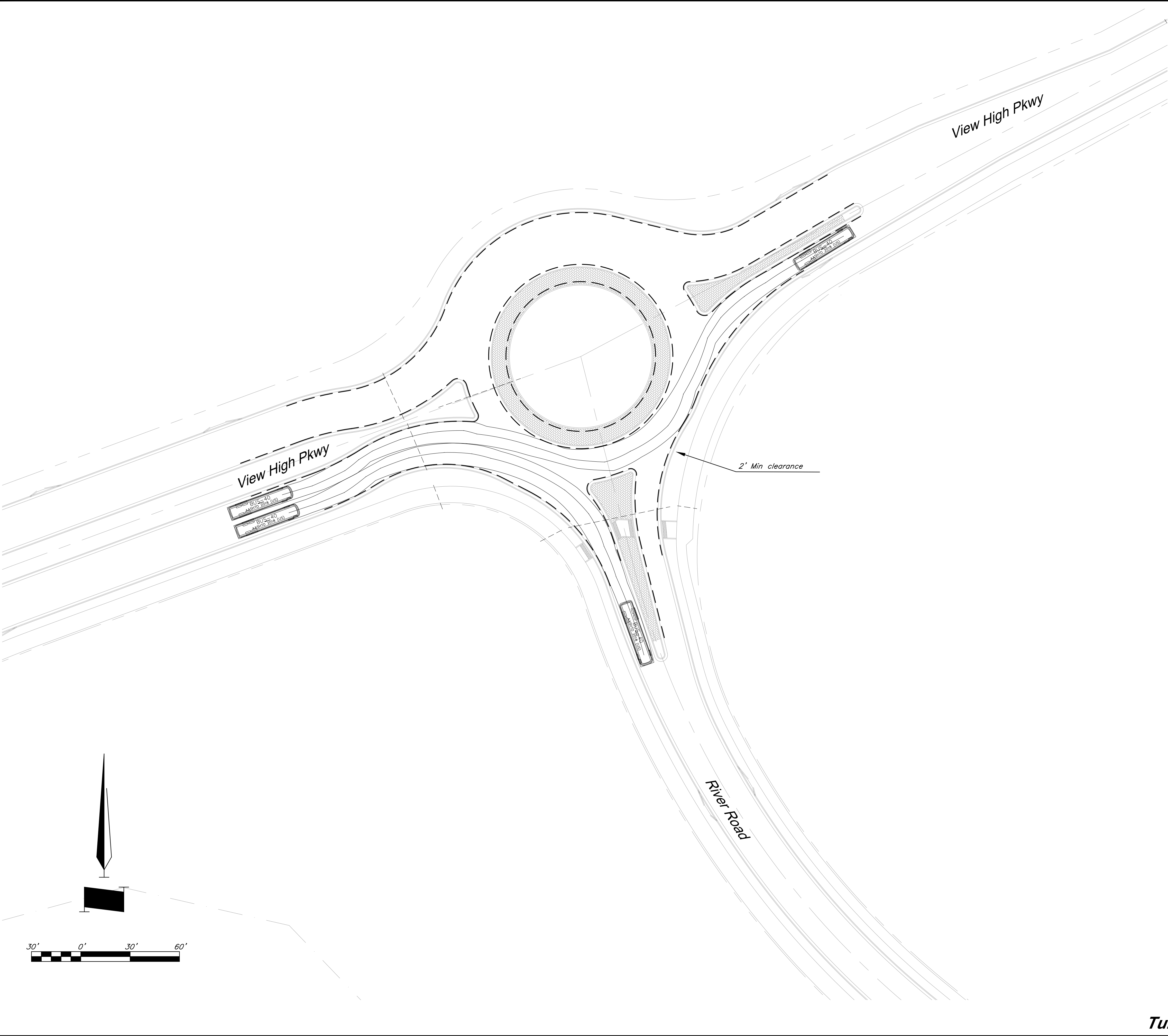
11 4/7/23 Record Drawings
- As-Built: "400-00 100.10" "4-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

----- 2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720TS901.dwg Layout: 92 Turning Movements 2b - BUS -- Thursday April 06, 2023, 3:49pm -- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
92	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

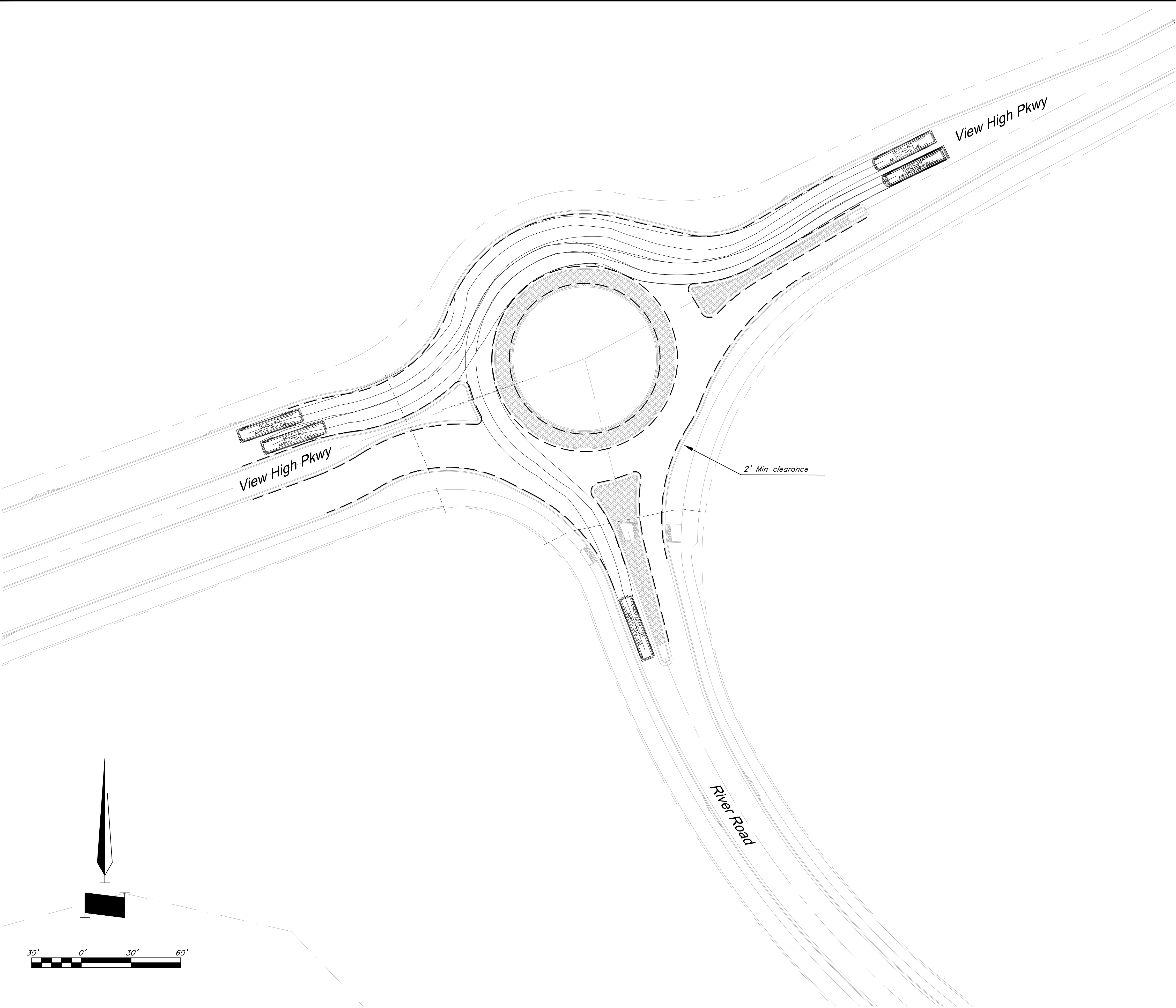
- | | |
|--|---|
| <ul style="list-style-type: none"> 1 1/27/21 Revised Structure Size 2 2/4/21 Retaining Wall Station & Offsets 2/26/21 RFI 11 3 3/11/21 RFI 12 4 3/11/21 Revised Line 400 5 4/8/21 Utility Updates 6 5/25/21 Paver Revision 7 6/15/21 Grading Updates 8 6/24/21 Wiring Diagram Updates 9 9/30/21 RFI 15—Irrigation Sleeves 10 9/30/22 Record Drawings 11 4/7/23 Record Drawings | <p>As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.</p> |
|--|---|

Legend

----- 2' offset from face of curb

Turning Movements using Design Vehicle 1 – BUS.
Movements to a 2' clearance from tire track and curb.

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272075901.dwg Layout: 93 Turning Movements 2c - BUS --- Thursday April 06, 2023, 3:50pm --- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA

architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
93	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1

1/27/21

Revised Structure Size

2

2/4/21

Retaining Wall Station & Offsets

3

3/11/21

RFI 12

4

3/11/21

Revised Line 400

5

4/8/21

Utility Updates

6

5/25/21

Paver Revision

7

6/15/21

Grading Updates

8

6/24/21

Wiring Diagram Updates

9

9/30/21

RFI 15-Irrigation Sleeves

10

9/30/22

Record Drawings

11

4/7/23

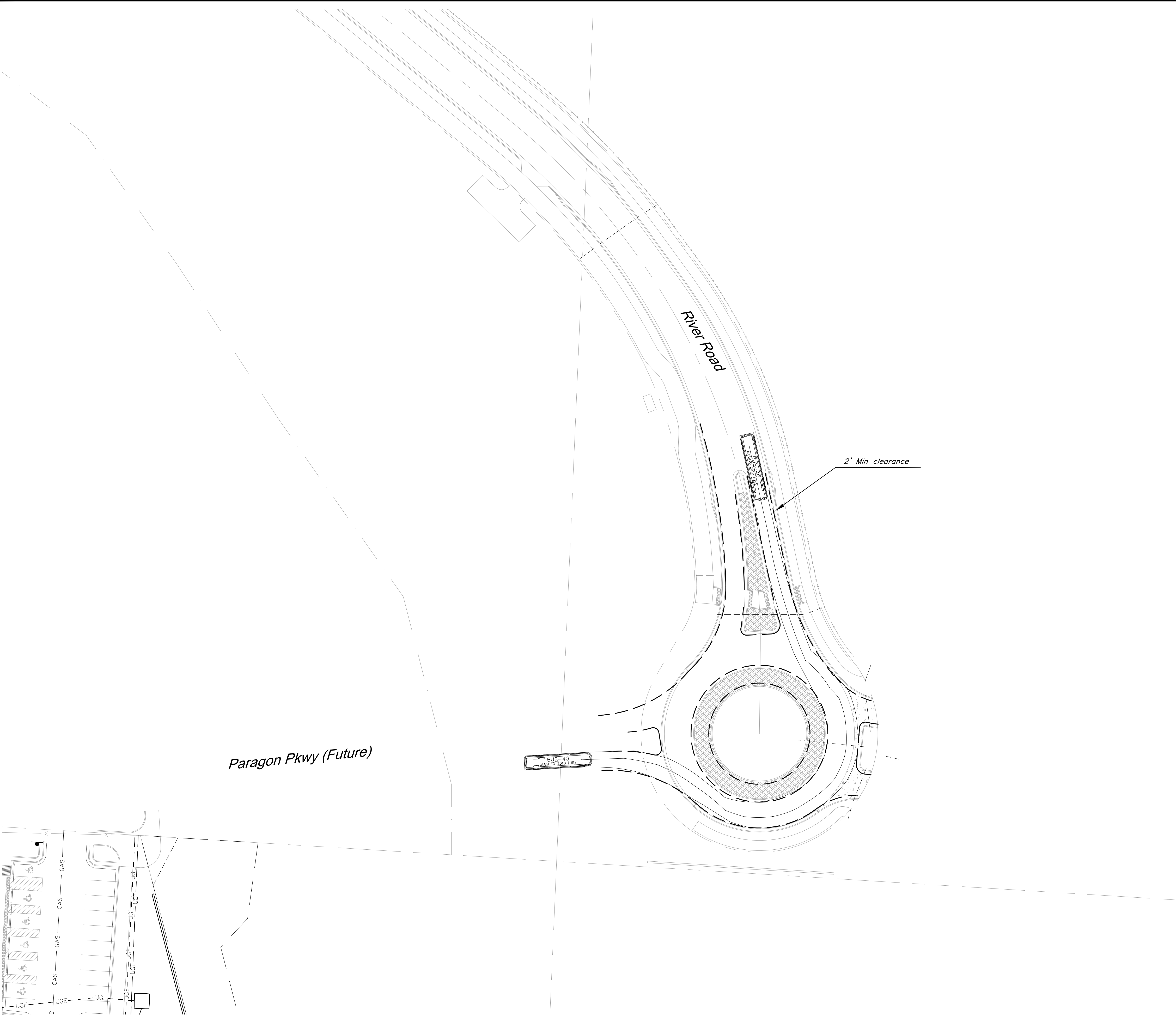
Record Drawings
- As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5901.dwg Layout: 94 Turning Movements 3a - BUS --- Thursday April 06, 2023, 3:50pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DCL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
94	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

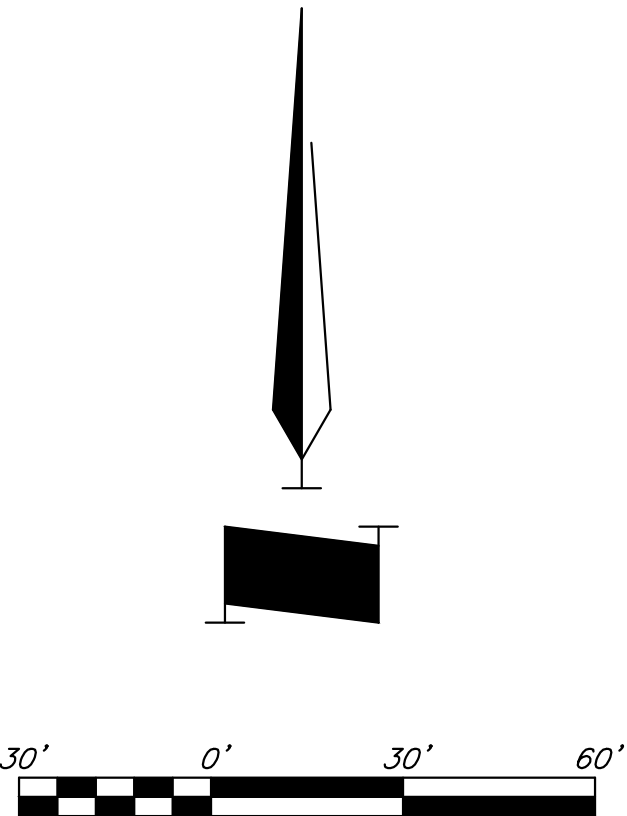
NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
 - 5/25/21 Paver Revision
 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
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Legend

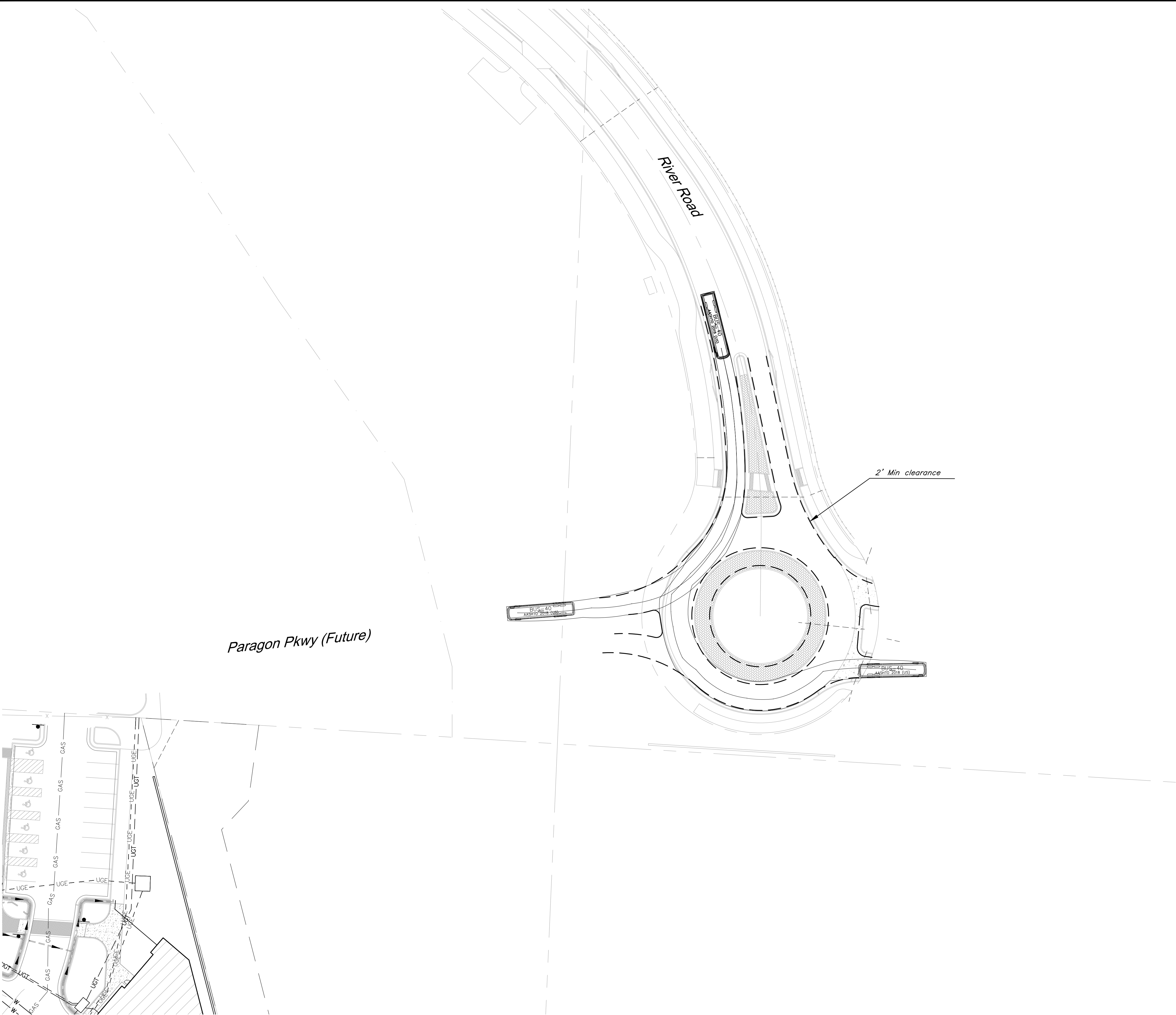
— — — — 2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.



Turning Movements - Eastbound 3

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720T5901.dwg Layout: 95 Turning Movements 3b - BUS --- Thursday April 06, 2023, 3:50pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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Lenexa, Kansas 66219
913.492.0400
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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DCL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
95	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1

1/27/21

Revised Structure Size

2

2/4/21

Retaining Wall Station & Offsets

2

2/26/21

RFI 11

3

3/11/21

RFI 12

4

3/11/21

Revised Line 400

5

4/8/21

Utility Updates

6

5/25/21

Paver Revision

7

6/15/21

Grading Updates

8

6/24/21

Wiring Diagram Updates

9

9/30/21

RFI 15-Irrigation Sleeves

10

9/30/22

Record Drawings

11

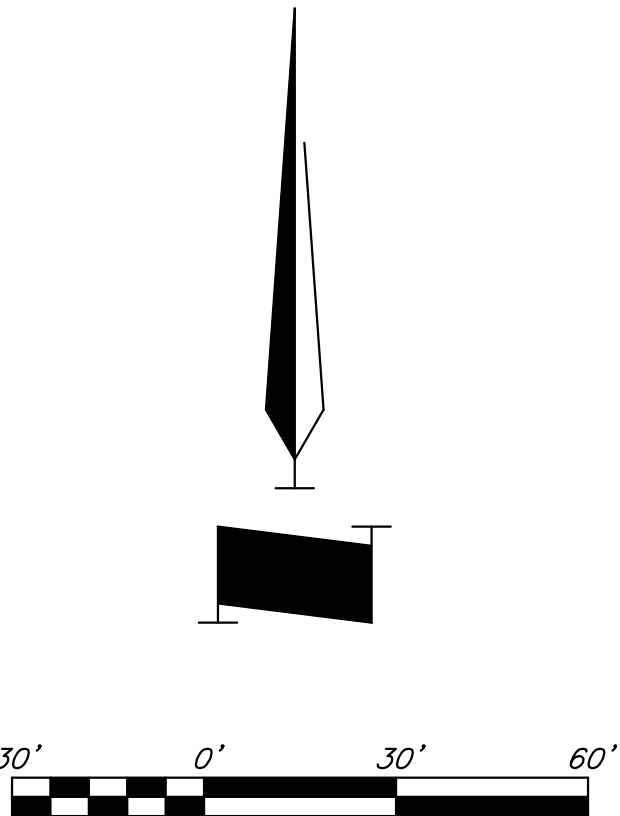
4/7/23

Record Drawings
- As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

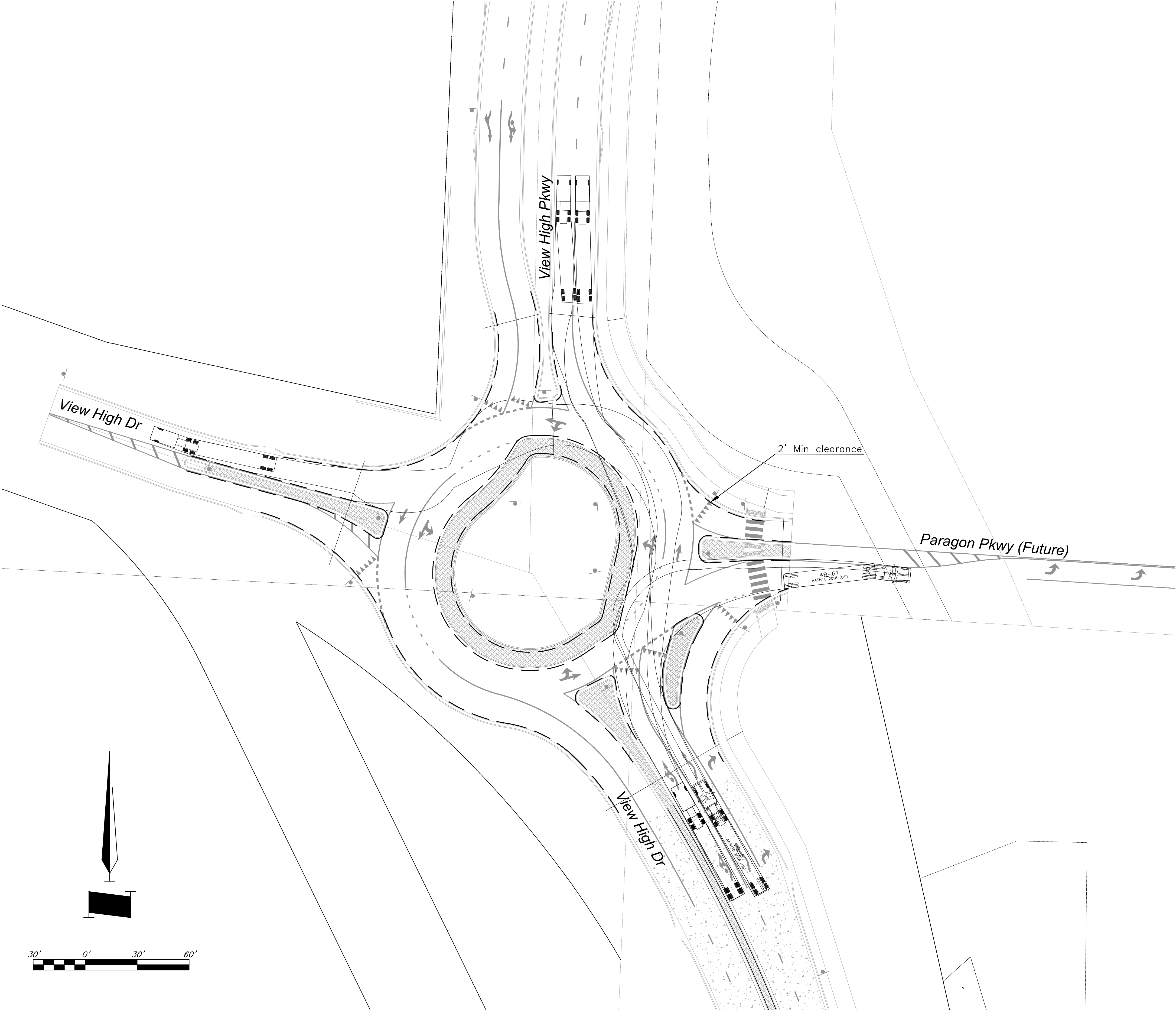
— — — — 2' offset from face of curb

Turning Movements using Design Vehicle 1 - BUS.
Movements to a 2' clearance from tire track and curb.



Turning Movements - Southbound 3

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015902.dwg Layout: 96 Turning Movements 1a - WB67 -- Thursday April 06, 2023, 3:50pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
96	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
 - 5/25/21 Paver Revision
 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

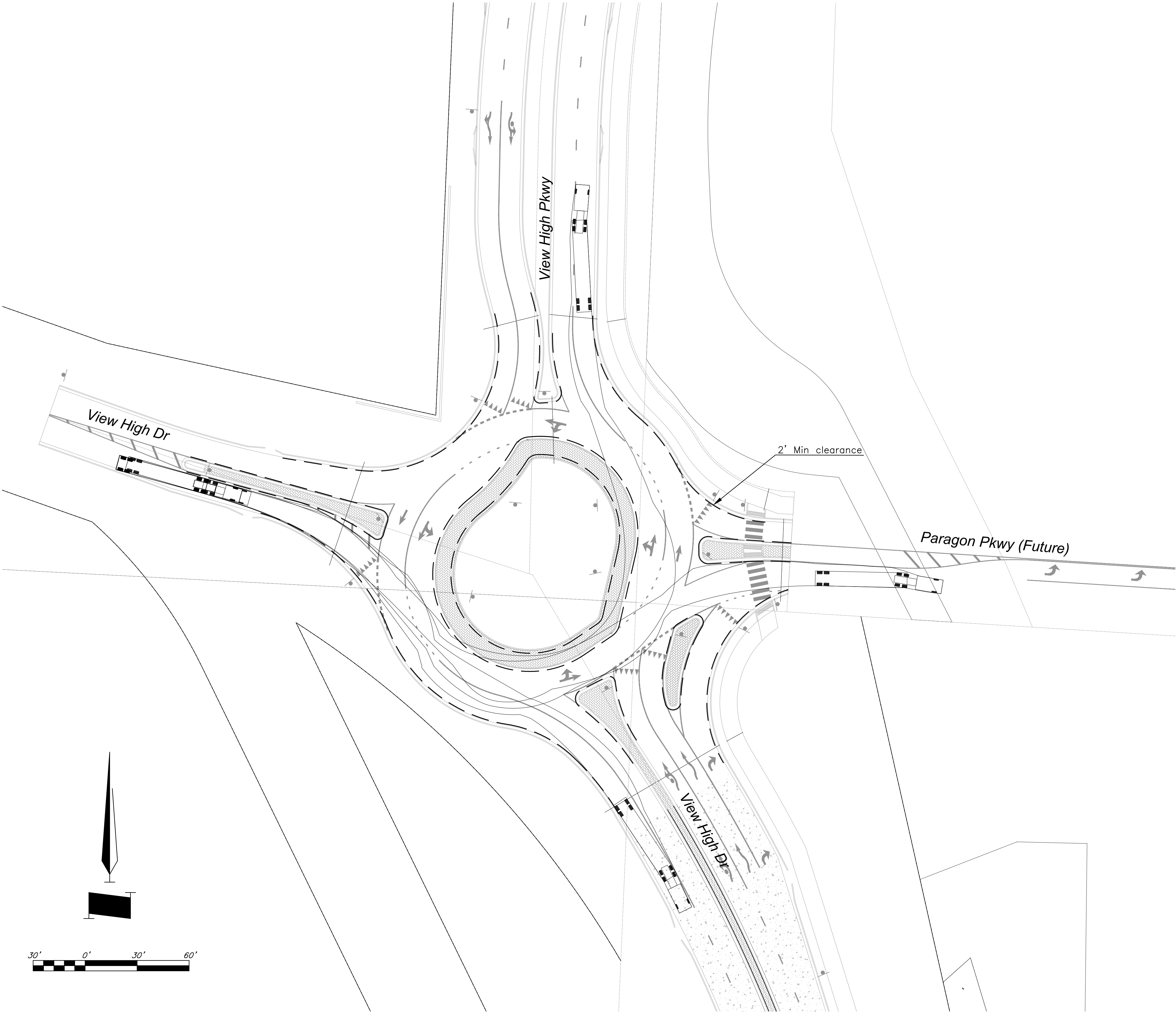
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Northbound 1

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\127201502.dwg Layout: 97 Turning Movements 1b - WB67 -- Thursday April 06, 2023, 3:50pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

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913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
97	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

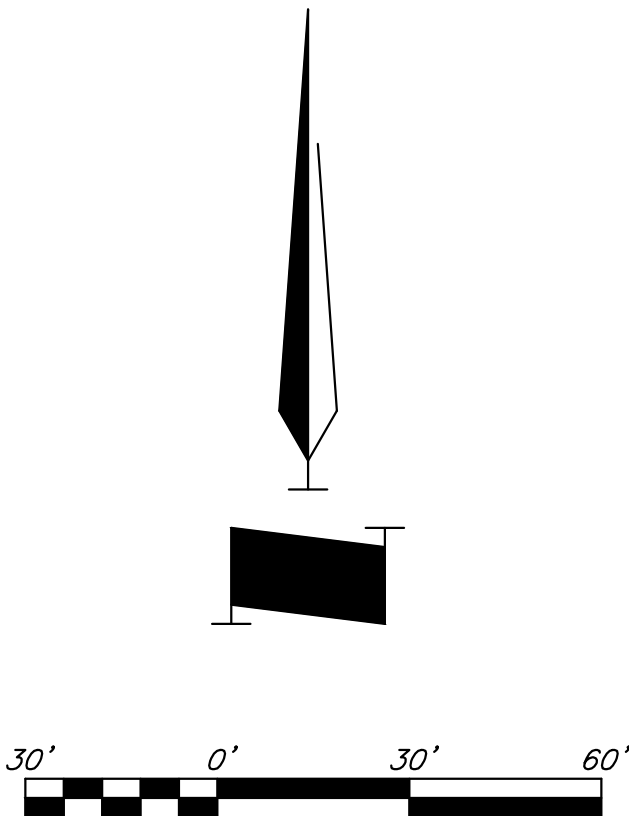
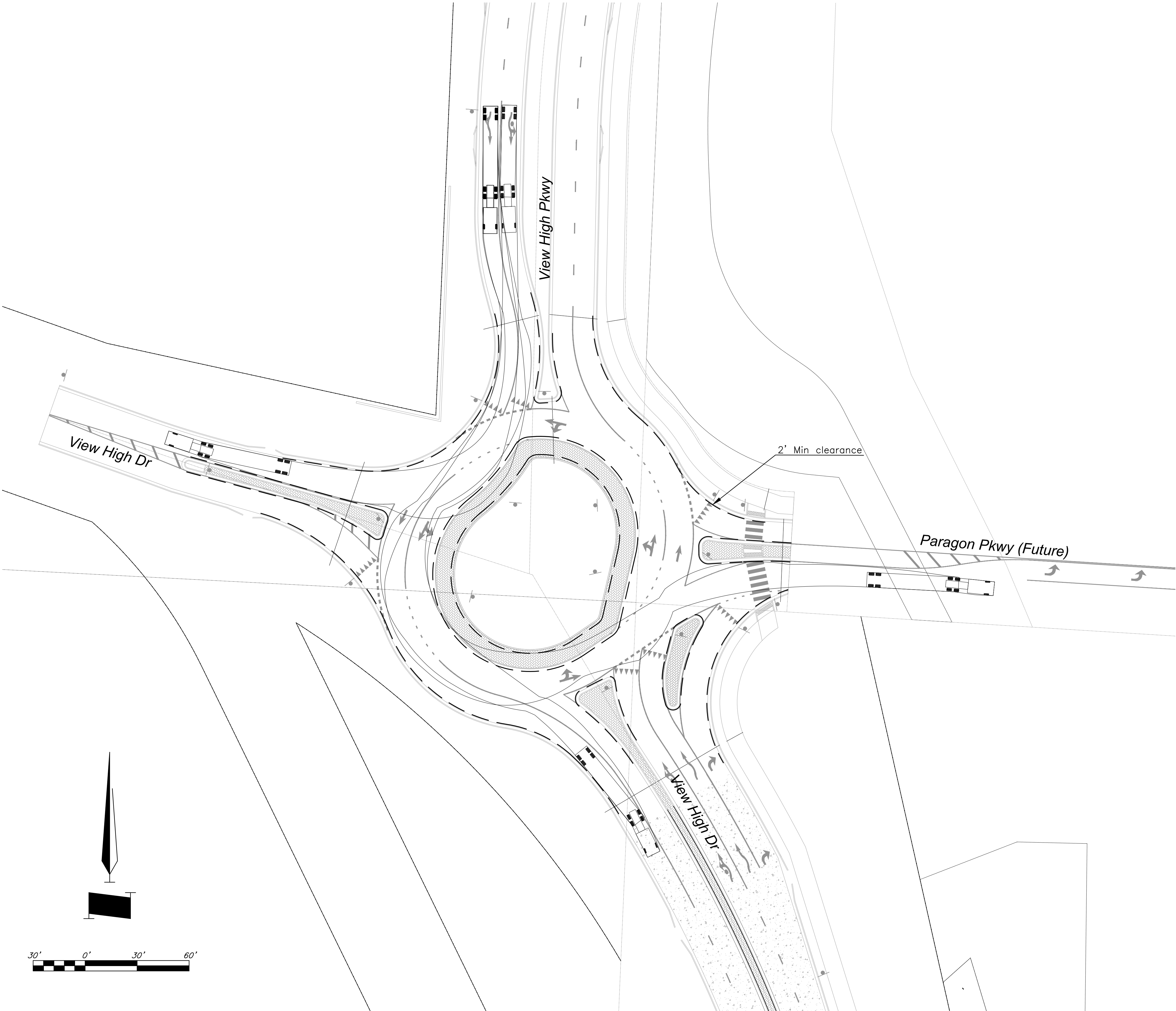
- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
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 - 6/24/21 Wiring Diagram Updates
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 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\127201502.dwg Layout: 98 Turning Movements 1c - WB67 -- Thursday April 06, 2023, 3:50pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate
Firm: GBA

RECORD DRAWING

9801 Renner Boulevard
Lenexa, Kansas 66219
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www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
98	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- | | |
|--|---|
| <ul style="list-style-type: none"> 1 1/27/21 Revised Structure Size 2 2/4/21 Retaining Wall Station & Offsets 2/26/21 RFI 11 3 3/11/21 RFI 12 4 3/11/21 Revised Line 400 5 4/8/21 Utility Updates 6 5/25/21 Paver Revision 7 6/15/21 Grading Updates 8 6/24/21 Wiring Diagram Updates 9 9/30/21 RFI 15-Irrigation Sleeves 10 9/30/22 Record Drawings 11 4/7/23 Record Drawings | <p>As-Built: "400-00 100.10", "4-00W 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.</p> |
|--|---|

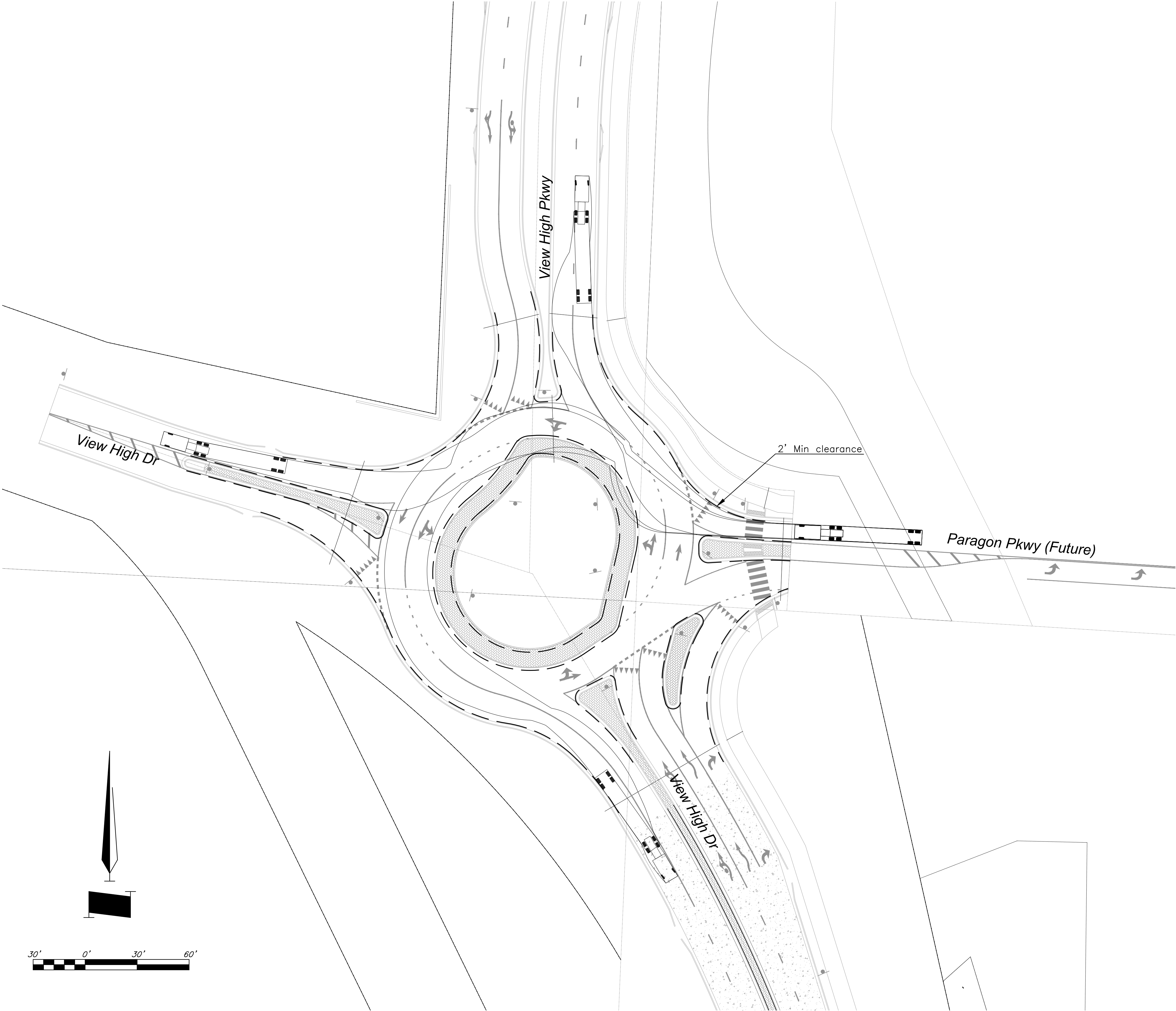
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Southbound 1

C:\12720\Civil 3D\Production Drawings\Street & Storm Plans\127201502.dwg Layout: 99 Turning Movements 1d - W667 -- Thursday April 06, 2023, 3:50pm -- Copyright 2023, George Butler Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
99	104

RECORD DRAWING

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		
1	1/27/21	Revised Structure Size		
2	2/4/21	Retaining Wall Station & Offsets		
	2/26/21	RFI 11		
3	3/11/21	RFI 12		
4	3/11/21	Revised Line 400		
5	4/8/21	Utility Updates		
6	5/25/21	Paver Revision		
7	6/15/21	Grading Updates		
8	6/24/21	Wiring Diagram Updates		
9	9/30/21	RFI 15-Irrigation Sleeves		
10	9/30/22	Record Drawings		
11	4/7/23	Record Drawings		

As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

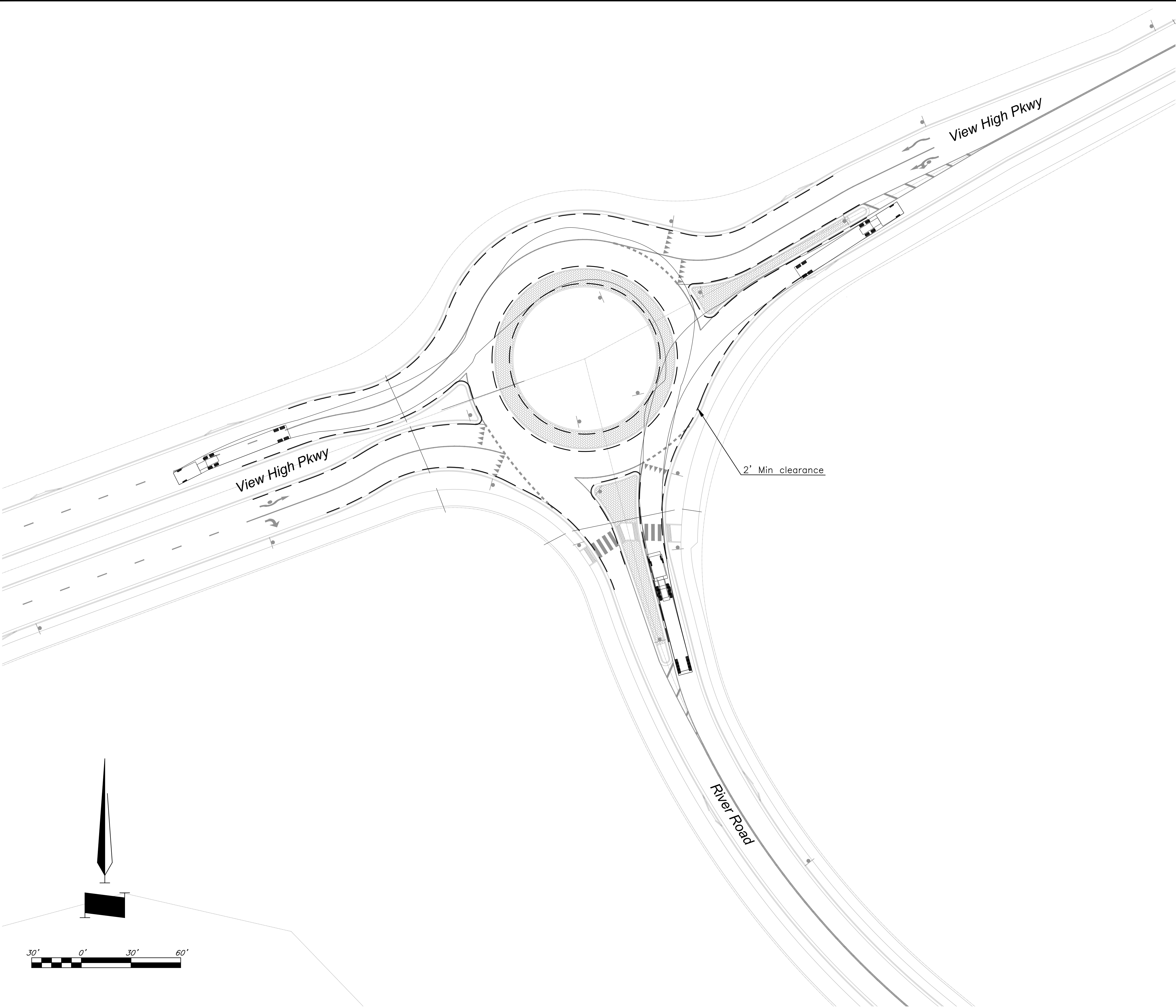
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Westbound 1

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272075902.dwg Layout: 100 Turning Movements 2a - WB67 --- Thursday, April 06, 2023, 3:50pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
100	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
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 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDBE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

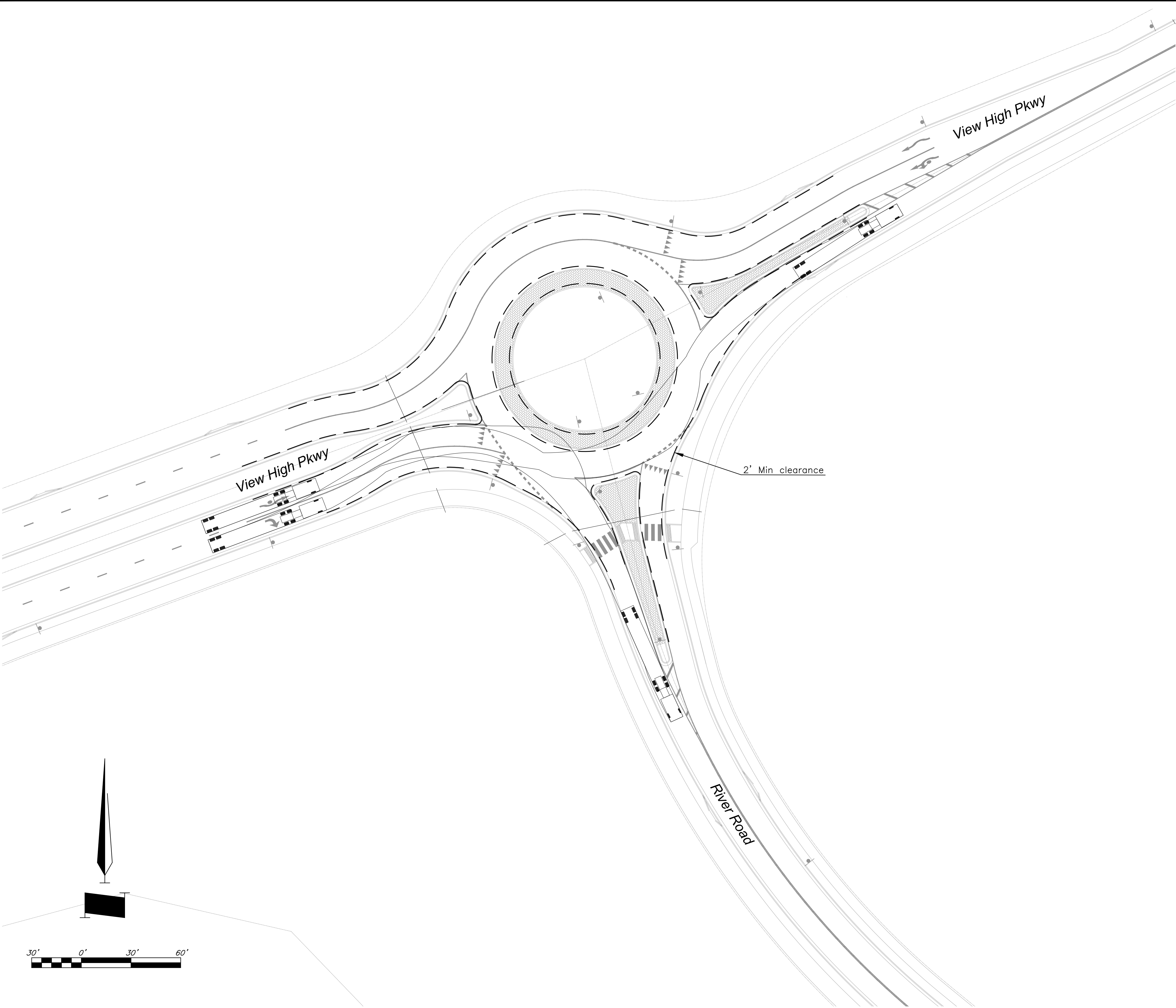
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Northbound 2

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\127207502.dwg Layout: 101 Turning Movements 2b - WB67 --- Thursday, April 06, 2023, 3:50pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA

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Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
101	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1 1/27/21 Revised Structure Size

2 2/4/21 Retaining Wall Station & Offsets

3 3/11/21 RFI 12

4 3/11/21 Revised Line 400

5 4/8/21 Utility Updates

6 5/25/21 Paver Revision

7 6/15/21 Grading Updates

8 6/24/21 Wiring Diagram Updates

9 9/30/21 RFI 15-Irrigation Sleeves

10 9/30/22 Record Drawings

11 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

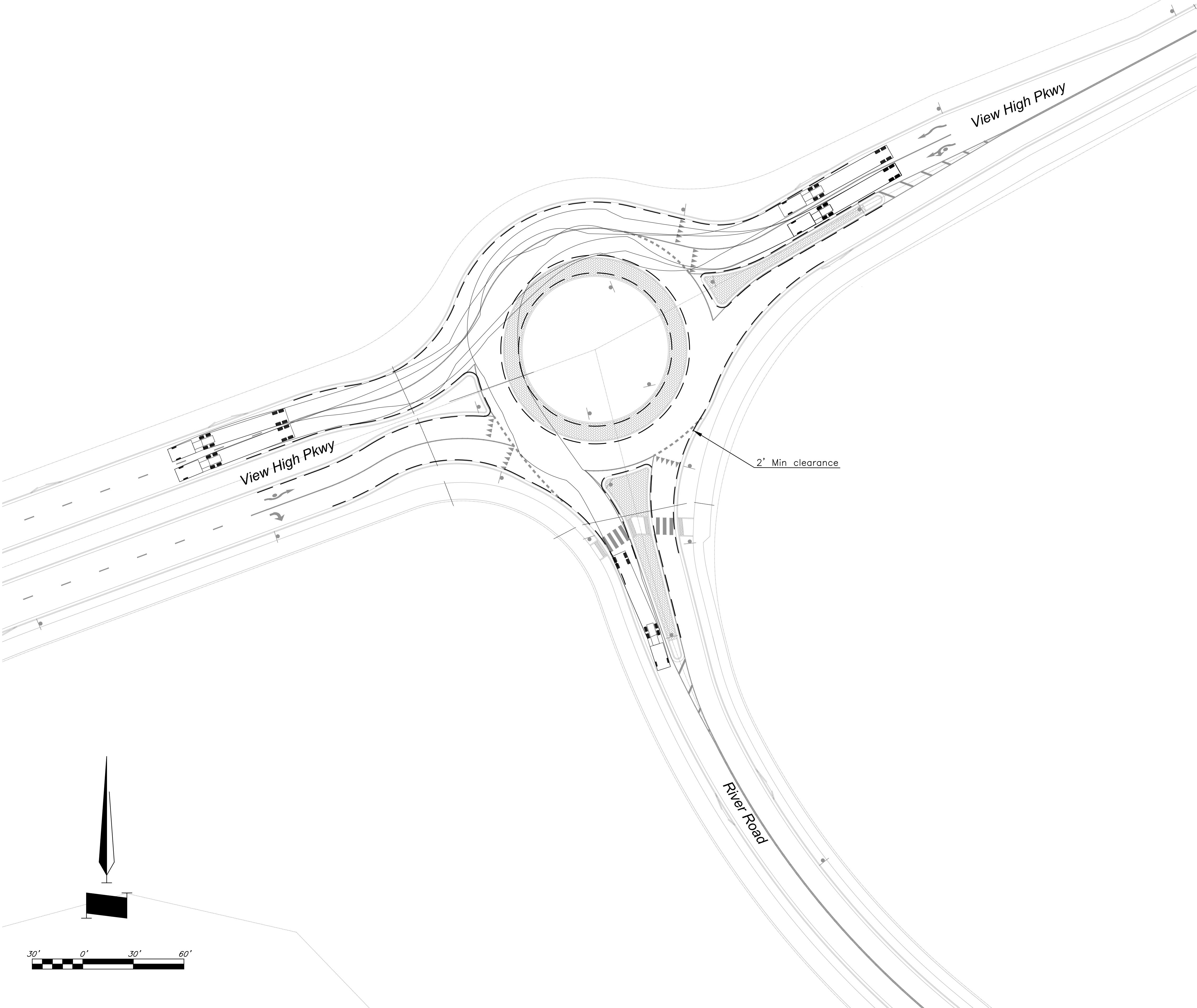
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Eastbound 2

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272075902.dwg Layout: 102 Turning Movements 2c - WB67 -- Thursday, April 06, 2023, 3:50pm -- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

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engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DGL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
102	104

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
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 - 5/25/21 Paver Revision
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 - 6/24/21 Wiring Diagram Updates
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 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
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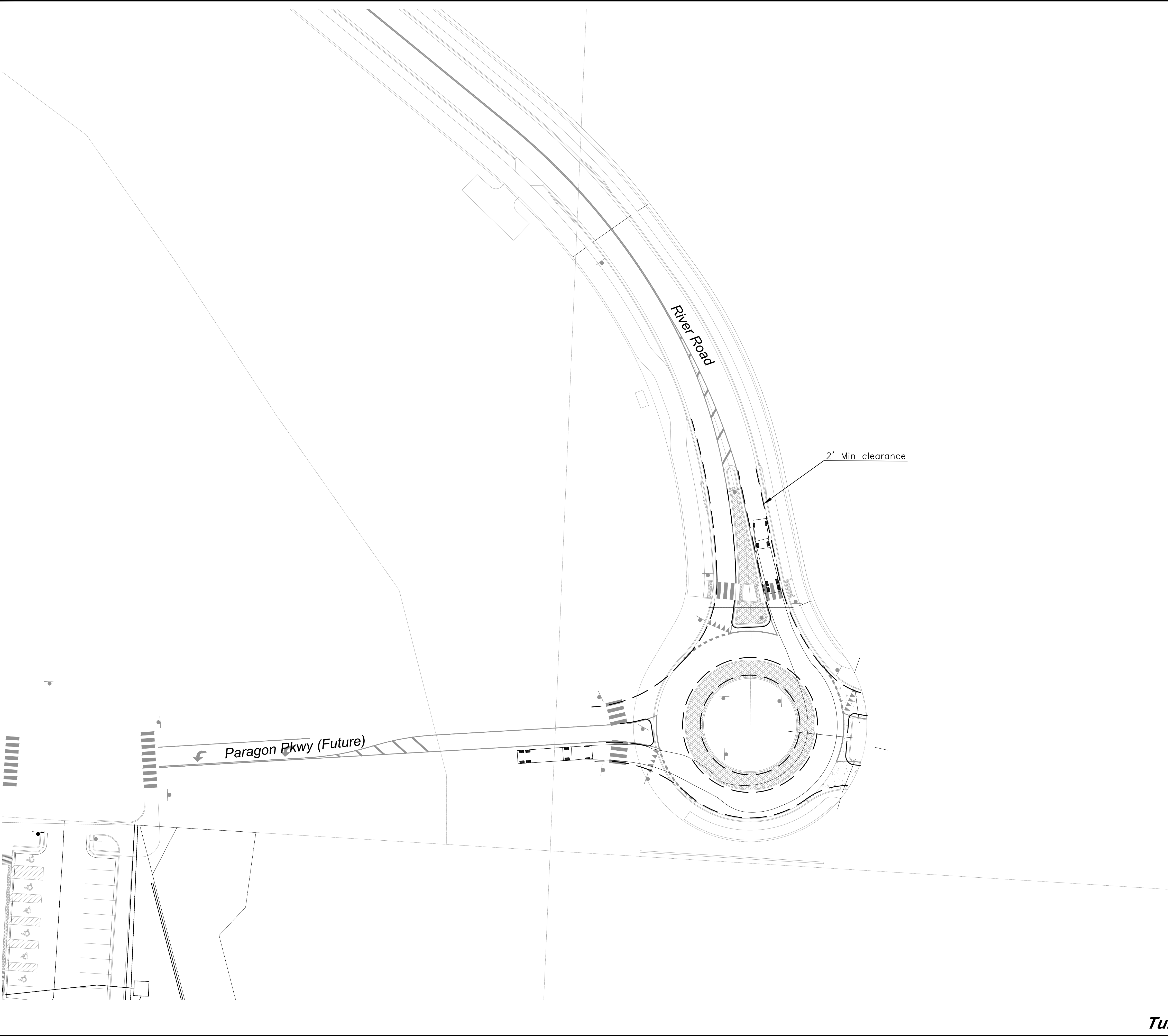
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Westbound 2

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\12720TS902.dwg Layout: 103 Turning Movements 3a - WB67 --- Thursday, April 06, 2023, 3:50pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



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Title: Senior Associate

Firm: GBA

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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DCL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
103	104

RECORD DRAWING

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
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 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00% 1.15% slope"; or "8-inch HDPPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

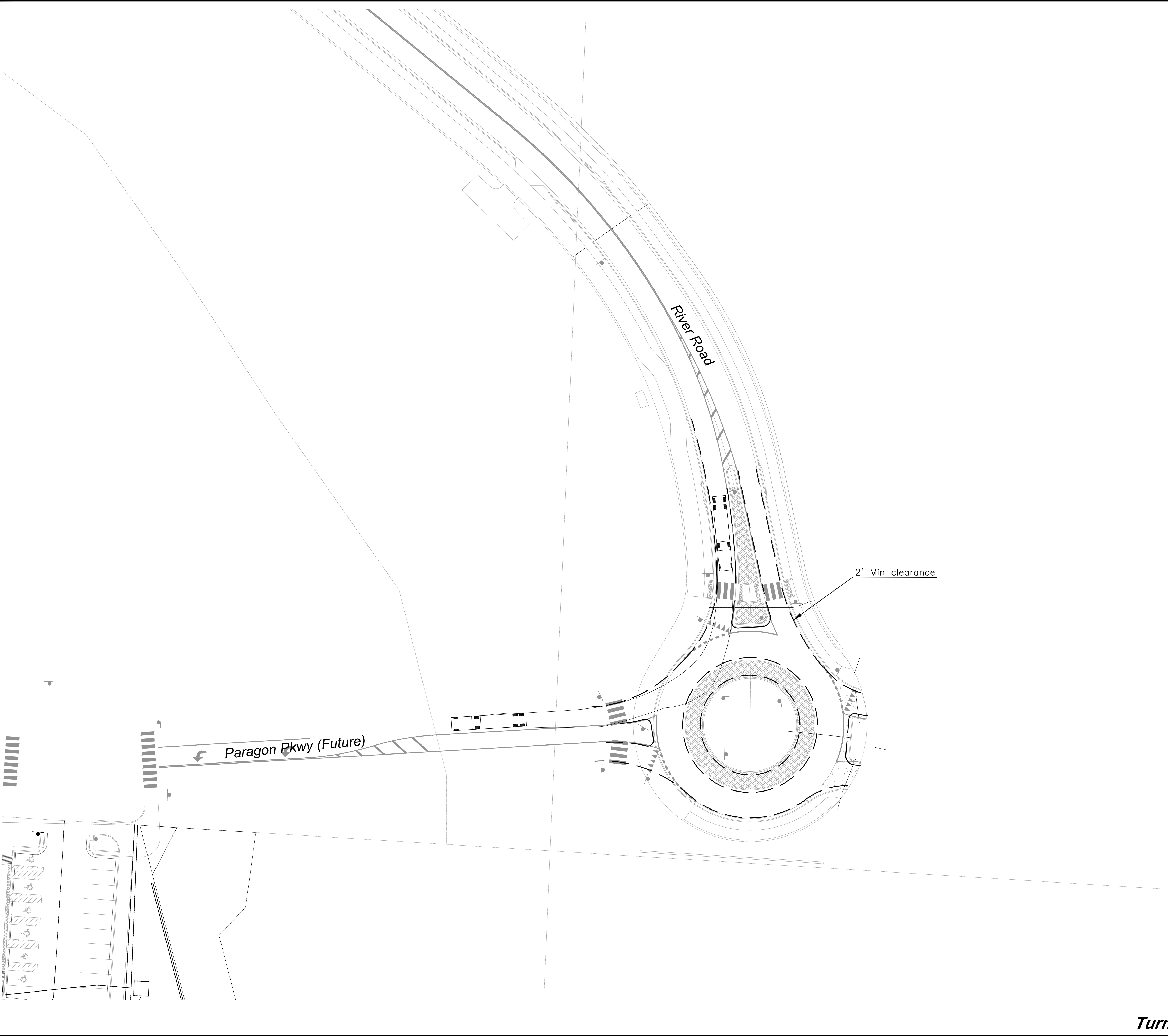
Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Eastbound 3

G:\12720\Civil 3D\Production Drawings\Street & Storm Plans\1272015902.dwg Layout: 104 Turning Movements 3b - WB67 --- Thursday, April 06, 2023, 3:51pm --- Copyright 2023, George Buller Associates, Inc. Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

GBA

architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
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DATE: 6-25-2020

DESIGN BY: SPC

DRAWN BY: DCL

PROJECT NO.: 12720

SHEET NO.	TOTAL SHEETS
104	104

RECORD DRAWING

Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans

Paragon Star Development

Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
	9/2/20	City Comments		
	11/23/20	Utility Updates		

- 1/27/21 Revised Structure Size
 - 2/4/21 Retaining Wall Station & Offsets
 - 2/26/21 RFI 11
 - 3/11/21 RFI 12
 - 3/11/21 Revised Line 400
 - 4/8/21 Utility Updates
 - 5/25/21 Paver Revision
 - 6/15/21 Grading Updates
 - 6/24/21 Wiring Diagram Updates
 - 9/30/21 RFI 15-Irrigation Sleeves
 - 9/30/22 Record Drawings
 - 4/7/23 Record Drawings
- As-Built: "400-00 100.10", "4-00W 1.15% slope"; or "8-inch H9PE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Legend

--- 2' offset from face of curb

Turning Movements using Design Vehicle 2 - WB-67.
Movements must maintain a 2' clearance from tire track and curb, minimum.

Turning Movements - Southbound 3

G:\12720\civil 3D\Production Drawings\Street & Storm Plans\12720C1300 (View High Dr no DD).dwg, Layout: RFI 11 View High Dr Transition --- Thursday April 06, 2023, 3:53pm --- Copyright 2023, George Butler Associates, Inc./Architect 00212, Professional Engineer 000133, Professional Land Surveyor 000059

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by GBA.

Date: 4/7/23

Certified by: Bradley D. Burton

Title: Senior Associate

Firm: GBA

RECORD DRAWING

GBA
architects
engineers

9801 Renner Boulevard
Lenexa, Kansas 66219
913.492.0400
www.gbateam.com

DATE: 6-25-2020
DESIGN BY: CEL
DRAWN BY: DRV
PROJECT NO.: 12720
SHEET NO. TOTAL SHEETS
RFI 11 104

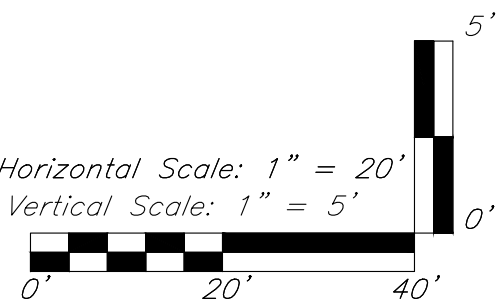
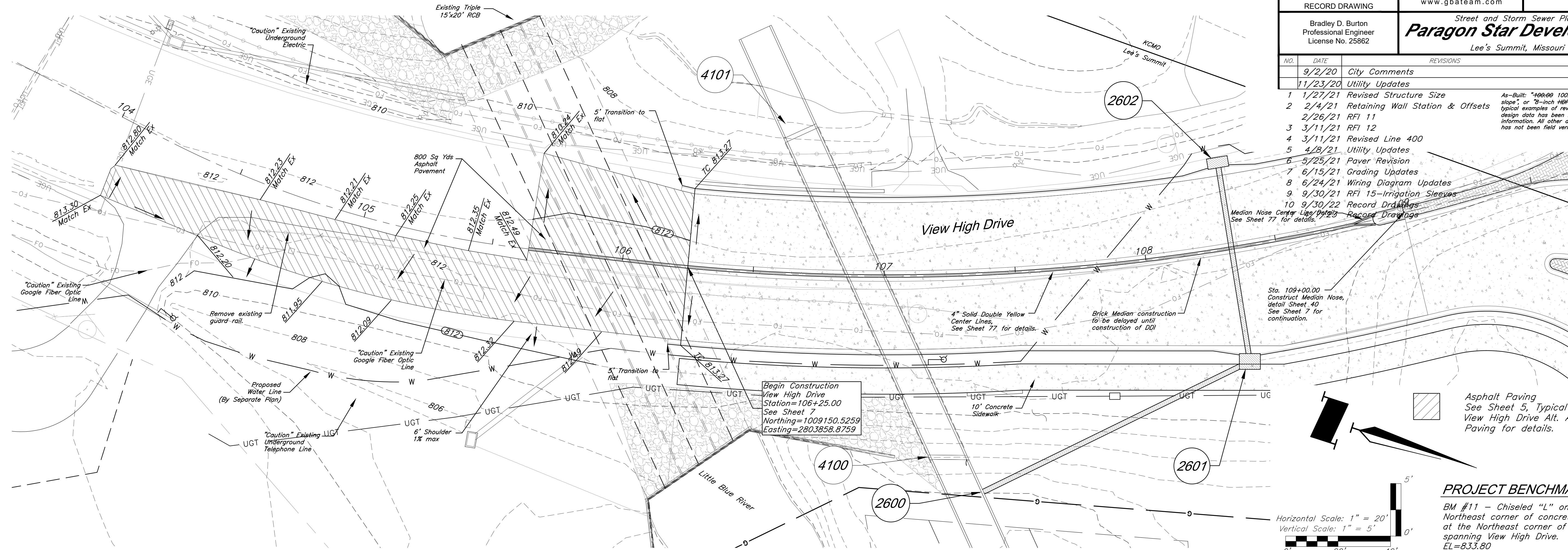
Bradley D. Burton
Professional Engineer
License No. 25862

Street and Storm Sewer Plans
Paragon Star Development
Lee's Summit, Missouri

NO.	DATE	REVISIONS	BY	APPROVED
1	9/2/20	City Comments		
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- 1/27/21 Revised Structure Size
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- 5/25/21 Paver Revision
- 6/15/21 Grading Updates
- 6/24/21 Wiring Diagram Updates
- 9/30/21 RFI 15-Irrigation Sleeves
- 9/30/22 Record Drawings

As-Built: "400-90 100.10" "4-80W 1.15% slope"; or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

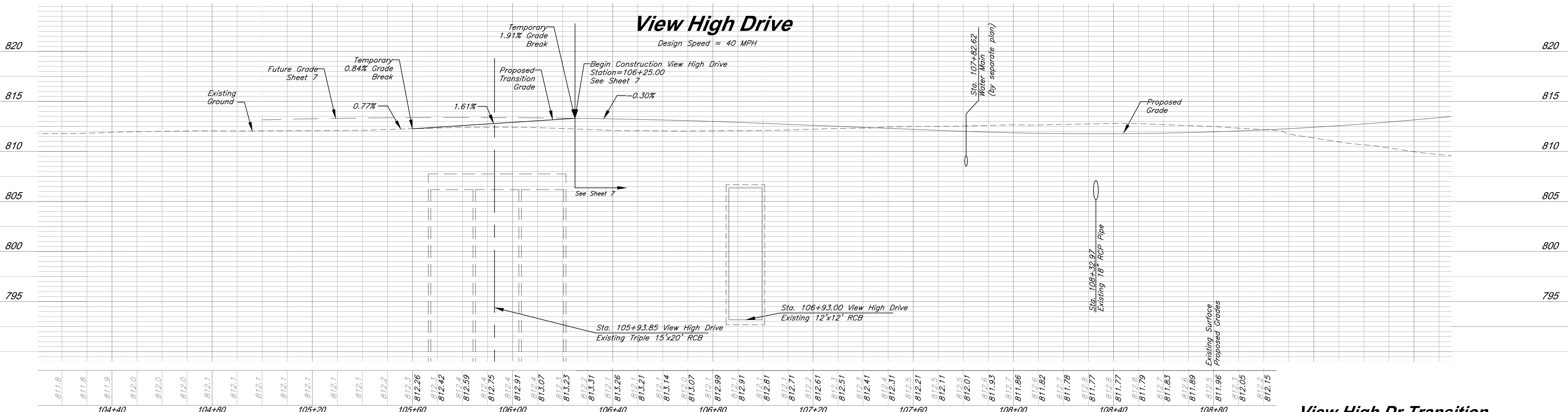


PROJECT BENCHMARK

BM #11 - Chiseled "L" on top Northeast corner of concrete guardrail at the Northeast corner of 1470 bridge spanning View High Drive.
EL=833.80

View High Drive

Design Speed = 40 MPH



View High Dr Transition