PARAGON STAR VILLAGE

1401 NW View High Drive, Lee's Summit, MO

NOVEMBER 4, 2020

Final Development Plan - Phase One (RESUBMITTAL)

SHEET INDEX

GENERAL SITE PLAN **EXISTING CONDITIONS** FDP LOT LAYOUT OVERALL GRADING PLAN OVERALL GRADING PLAN GRADING ENLARGEMENT GRADING ENLARGEMENT GRADING ENLARGEMENT GRADING ENLARGEMENT GRADING ENLARGEMENT DIMENSION PLAN DIMENSION PLAN ADA ACCESSIBLE PLAN **UTILITY OVERVIEW** C015 UTILITY PLAN **UNDERDRAIN - CONSTRUCTION NOTES** STORM SEWER PROFILES STORM SEWER PROFILES DRAINAGE CALCULATIONS C022 CONSTRUCTION DETAILS CONSTRUCTION DETAILS UTILITY DETAILS STREETSCAPE DETAILS STORM SEWER DETAILS STORM SEWER DETAILS STORM SEWER DETAILS EROSION CONTROL PLAN EROSION CONTROL PLAN **EROSION CONTROL NOTES** EROSION CONTROL DETAILS EROSION CONTROL DETAILS **EROSION CONTROL DETAILS** EROSION CONTROL DETAILS EROSION CONTROL DETAILS EROSION CONTROL DETAILS TURNING MOVEMENTS 1 - SU 30 TURNING MOVEMENTS 2 - SU 30

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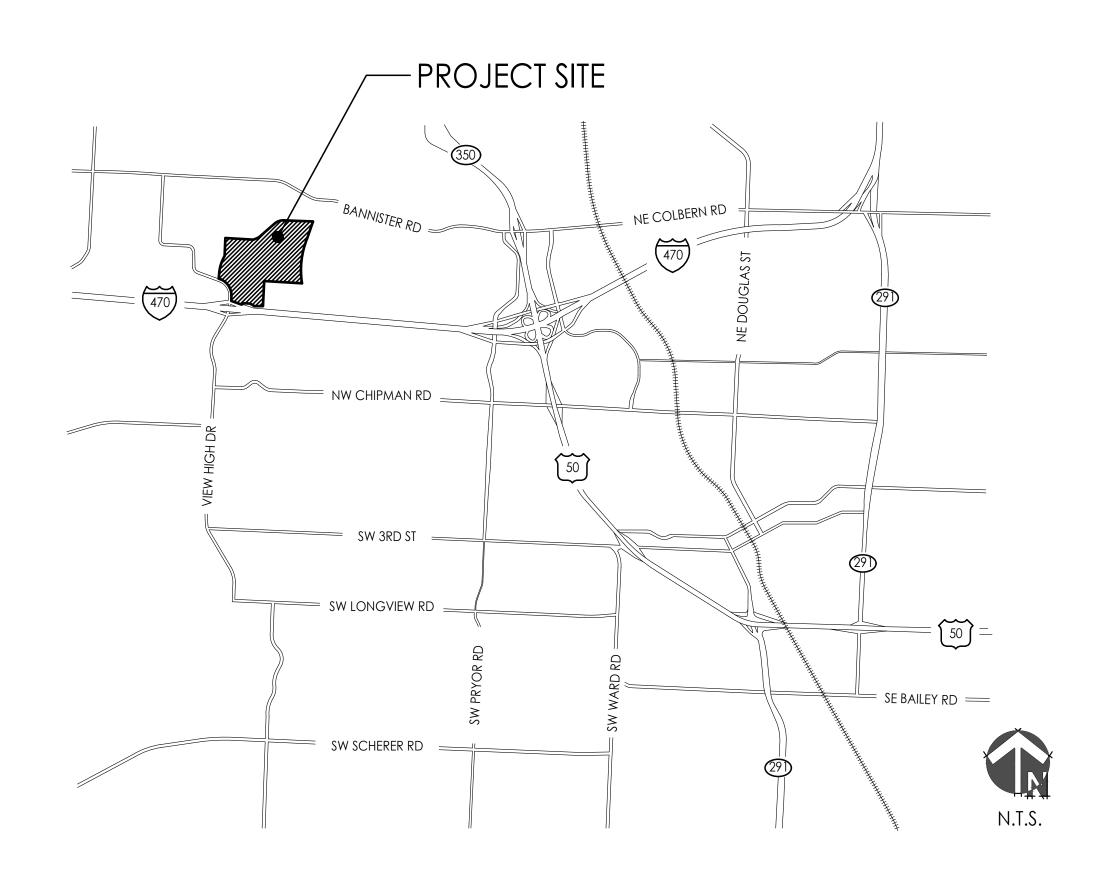
ARCHITECTURAL SITE PLAN A1.02 BUILDING ELEVATIONS

OVERALL PLANTING PLAN

LIGHTING SYMBOLS AND LEGENDS

LIGHTING PLAN

PHOTOMETRIC PLAN



PLANS PREPARED BY



9801 Renner Boulevard

Lenexa, KS 66219

913.492.0400

www.gbateam.com

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Lee's Summit, MO 64063

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MO Landscape Arch Corp 2008001860





Hoerr Schaudt Henderson Engineers, Inc. Landscape Architects

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OWNER

Paragon Star, LLC 801 NW Commerce Drive Lee's Summit, MO 64086 855.802.6800 www.paragonstarusa.com

COVERSHEET

CIVIL ENGINEERING

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MO Certificate of Authority # 000133 LANDSCAPE ARCHITECTURE

MO Certificate of Authority # 2008001860

Hoerr Schaudt Landscape Architects

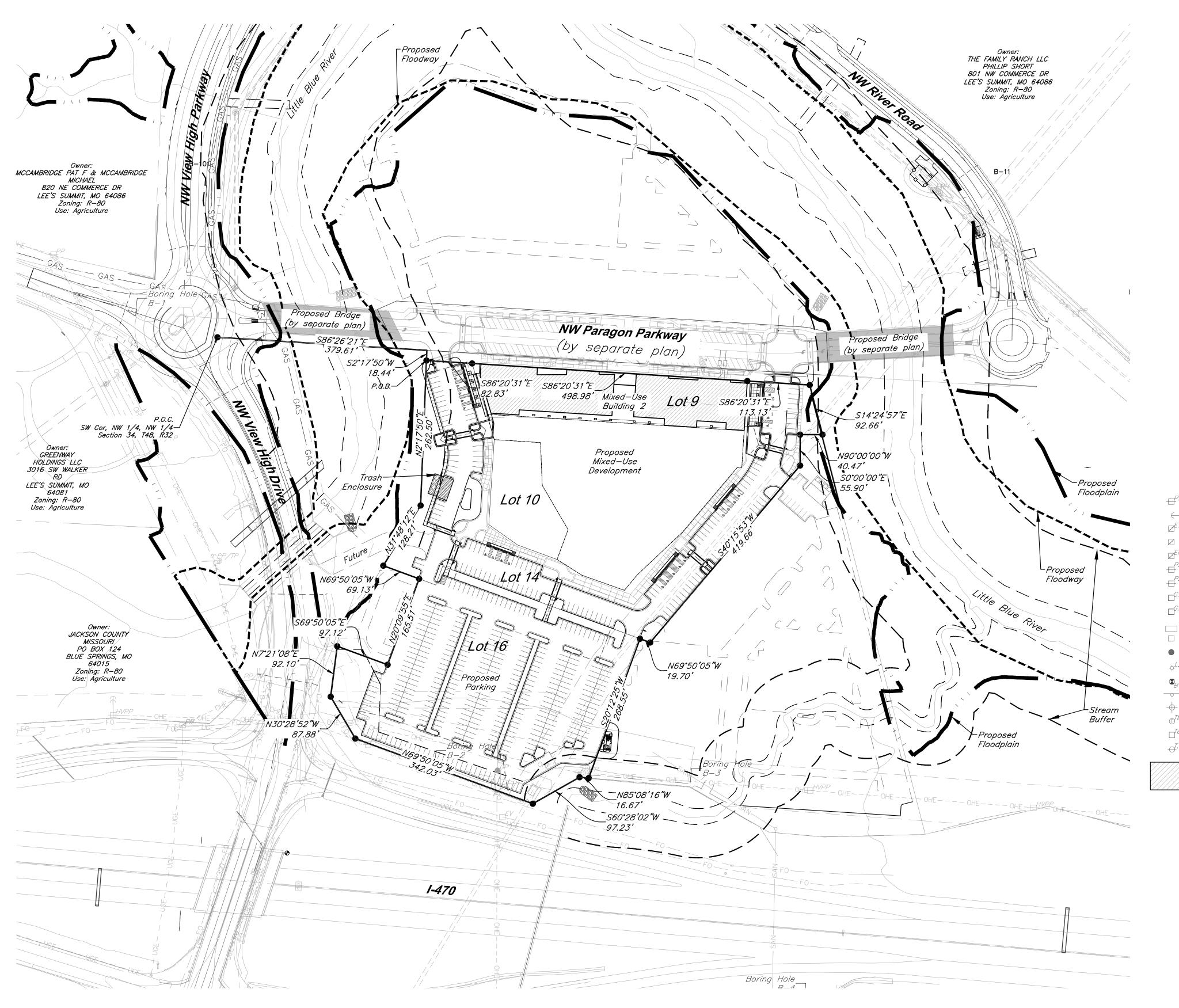
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Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture 8787 Renner Boulevard, Suite 100

Missouri Certificate of Authority #F00453304

HENDERSON ENGINEERS, Inc.



Prepared and 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

Floodplain:

According to FEMA Flood Insurance Rate Map (FIRM) Community Panel No. 29095C0404G, 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.

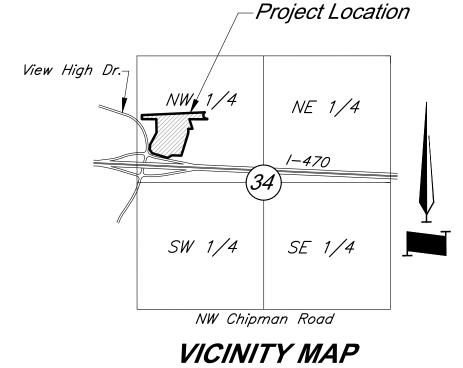
A CLOMR has been issued for this project, case number 20-07-0520R, dated 2/14/20. Proposed Floodplain/ Floodway refers to boundary set by this CLOMR.

<u>Parking:</u>

Total Parking Spaces = 498 Regular Spaces = 473 ADA Spaces = 25

<u>Notes:</u>

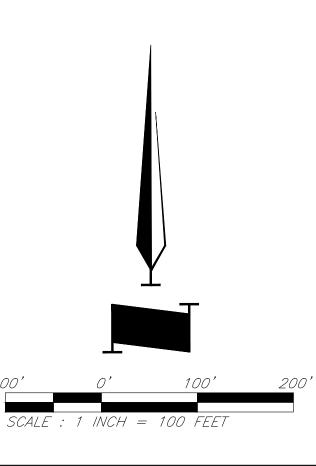
- No oil or gas wells are located on site per Missouri Department of Natural Resources.
 Proposed Floodplain and Floodway assumes adoption of CLOMR.



Scale: 1"=2000'

Legend

Centerline Power Pole — — Fiber Optic Line Guy Anchor Electric Meter Gas Line Electrical Transformer Guard Rail Electric Pedestal — - - - OHE - - - OHE — Over Head Electric Power Pole/Telephone Pole ——— OHT——— OHT— Over Head Telephone Power Pole/Light Pole Property Line — Right-of-Way Line Gas Valve Sanitary Sewer Line Curb Inlet Stream Tree Line Junction Box Sanitary Sewer Manhole — UGE— — — UGE— — Underground Electric Light Pole —— UGT — — — Underground Telephone Boring Hole Underground Cable TV Water Line Property Corner Proposed Grades Telephone Manhole Proposed Storm Sewers Telephone Pedestal Telephone Pole ___1008____ Existing Grades Proposed Building = = Existing Storm Sewers Tree Deciduous Fire Hydrant Water Meter Proposed Floodway



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PROJECT:

Barbed Wire Fence

Proposed Floodplain

— Stream Corridor

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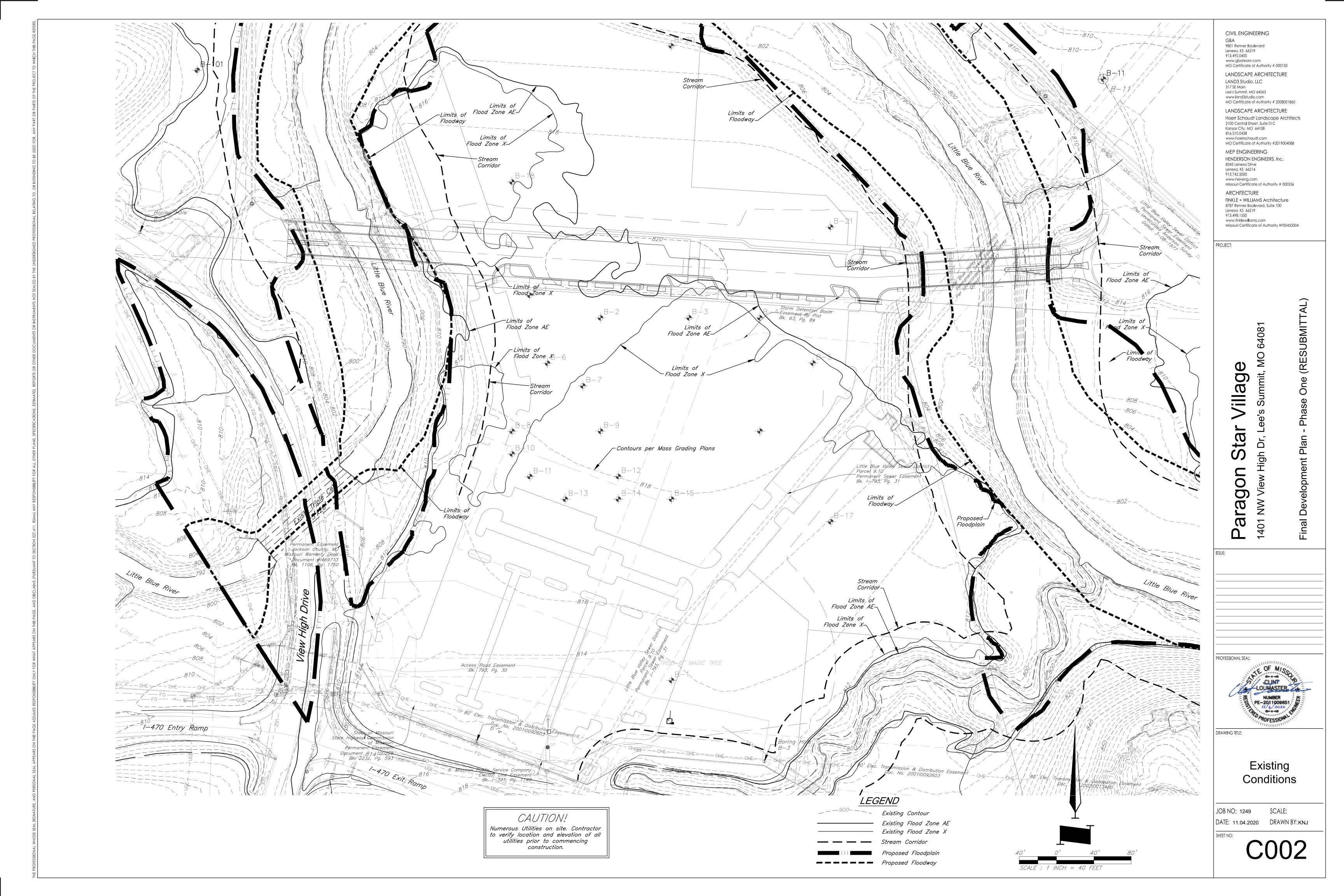
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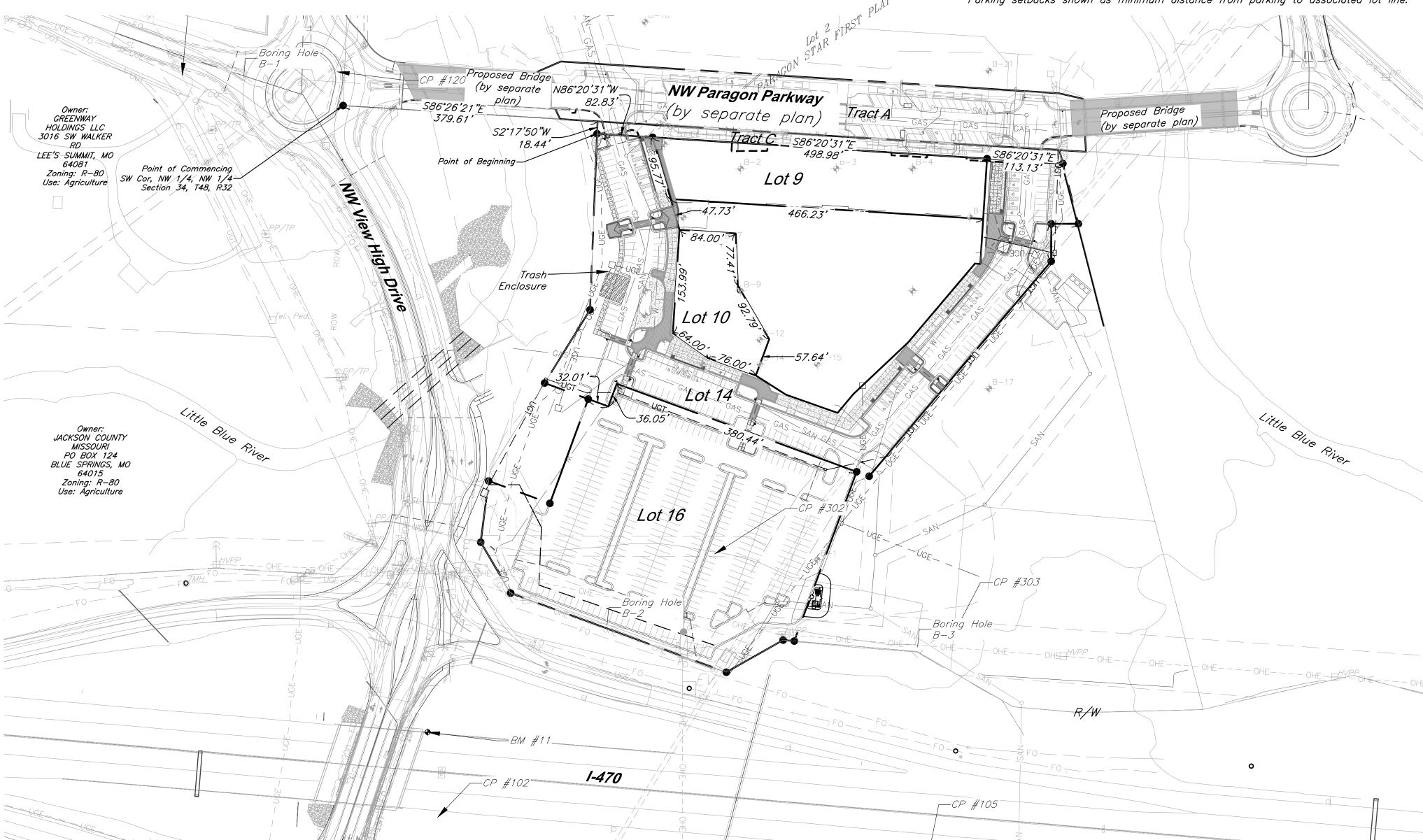
General Site Plan



Lot	Area	Building Setback to Perimeter Property	Parking Setback	Floor-Area Ratio
Lot 9	1.00 Ac.	20 Ft.	N/A	0. <i>78</i>
Lot 10	0.47 Ac.	20 Ft.	N/A N/A	N/A
Lot 14	2.82 Ac.	N/A	0 Ft.	N/A
Lot 16	3.41 Ac.	N/A N/A	O Ft.	N/A N/A

-Project Location View High Dr.-NE 1/4 SW 1/4 SE 1/4 NW Chipman Road **VICINITY MAP** Scale: 1"=2000'

Note: Building setbacks shown as minimum distance from building to perimeter property. Parking setbacks shown as minimum distance from parking to associated lot line.



Coordinates Shown Hereon:

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

CAF=0.99990648 Coordinates x CAF = State Plane

CP #100 $-\frac{1}{2}$ " rebar with GBA 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 1-470.

- N: 1009568.88' E: 2803498.54 EL: 819.37'
- 1) North 4.15' to the South edge of asphalt of View High Drive

2) East 18.00' to West edge of asphalt field

- 3) South 27.50' to west end of 18" cmp culvert for field entrance
- CP #102 $\frac{1}{2}$ " rebar with GBA cap along South side of East bound 1-470, East of Bridge spanning View High Drive.
- <u>Coordinates:</u> N: 1008463.46' E: 2803878.88'
- EL: 829.94'
- 1) ENE 38.90' to centerline of steel highway reflector post, 1st post E. of bridge 2) North 9.50' to South edge of asphalt
- shoulder of East bound 1-470 3) WNW 53.65' to top SE corner of concrete guardrail for 1-470 bridge spanning View High Drive

- CP #104 $\frac{1}{2}$ " rebar with GBA cap along South edge of off ramp from East bound 1-470 to View High Drive. N: 1008447.60'
- E: 2803180.41' EL: 822.96'
- 1) North 3.10' to South edge of asphalt of
- 2) WNW 3.00' to SE corner of concrete pad around state lighting control box
 3) North 47.20' to SE corner of concrete pad around state lighting control box,
- North side of off ramp 4) East 530'± to centerline of View High
- $CP \#105 \frac{1}{2}$ " rebar with GBA cap in grass between South edge of asphalt of East bound 1-470 and the North edge of asphalt of East bound on ramp from View High Drive, at East end of grass area. <u>Coordinates:</u>
- E: 2804608.18' EL: 833.34'
- 1) SW 8.64' to centerline of reflector post, North side of on ramp 2) East 52.40' to centerline of reflector

post, South side of I-470, East end of

- grass area CP #106 - Set $\frac{1}{2}$ " rebar with GBA cap, West of View High Drive, South of entrance to substation at 10528 View High Drive <u>Coordinates:</u> N: 1006295.09'
- E: 2803203.41' EL: 944.66'
- <u>| I/es:</u> | 1) NE 62.75' to front face of curb inlet

- 2) N 28'± to center of gravel substation 3) E 20'± to West edge of sidewalk
- CP #120 $\frac{1}{2}$ " rebar with GBA cap at NW corner of View High Drive and access road "Future View High Drive Pkwy"
- N: 1009573.66' E: 2803729.57' EL: 811.46'
- 1) NW 3.60' to East edge of asphalt 2) West 51.44' to back of curb at nose of 3) NE 56.30' to center of MH lid
- $CP \#121 \frac{1}{2}$ " rebar with GBA cap approximately 1430'± ENE of access road "Future View High Drive Pkwy" from View High Drive, near MH #1055
- <u>Coordinates:</u> N: 1009788.28' E: 2805047.90' EL: 806.65'
- SW 3.65' to center of MH lid 2) WNW 14'± to power pole 3) NW 35.65' to NE corner of chain link
- CP $\#122 \frac{1}{2}$ " rebar with GBA cap approximately 1380'± NE of access road "Future View High Drive Pkwy" from View High
- <u>Coordinates:</u> N: 1010126.48° E: 2804884.88' EL: 813.20'
- West 298'± to center of MH lid 2) South 199'± to center of MH lid

- CP #302 $-\frac{5}{8}$ " rebar on North end of gravel construction parking area, at NE quadrant of intersection of Interstate 470 and View High
- <u>Coordinates:</u> N: 1008855.67' E: 2804291.58' EL: 813.83'
- Ties:

 1) SE 156'± to high voltage power pole CP #303 $-\frac{1}{2}$ " rebar at E. end of gravel construction parking area <u>Coordinates:</u> N: 1008733.32'
- E: 2804645.61' EL: 811.78' 1) South 5.00' to North edge of high voltage OHP
- 3) SW 57.85' to steel R/W post at fence $CP #304 - \frac{1}{2}$ " rebar West of future View High Pkwy at top of hill near tree line, approximately 732'± North of access road

2) West 34.00' to East edge of gravel

"Future View High Drive Pkwy" from View High <u>Coordinates:</u> N: 1010251.92' E: 2803699.53'

EL: 839.39'

parkina lot

- 1) NNE 23.10' to South face of twin 10" 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. <u>Coordinates:</u> N: 1010784.43 E: 2804698.47'
- EL: 888.55° 1) SE 4.00' to great break at ridge line
- CP #306 $-\frac{1}{2}$ " rebar on South side of gravel drive leading to lift station, near bend in road. <u>Coordinates:</u> E: 2806165.47 EL: 810.46'
- 1) North 4.00' to South edge of gravel drive 2) SE 18.80' to North face of power pole BM #10 - Chiseled "L" on top SW corner of concrete curb inlet at NE Quadrant of intersection of View High Drive and Chipman Road, 1st inlet East of View High Drive.
- E: 2803334.61 EL: 951.45' BM #11 - Chiseled "L" cut on NE corner of concrete guard rail at NE corner of Interstate 470 and View High Drive <u>Coordinates:</u>

<u>Coordinates:</u> N: 1005584.32

N: 1008590.33'

E: 2803864.07'

EL: 852.04°

EL: 833.80' BM #13 - Chiseled "L" on NE corner of Interstate 470 and Cedar Creek Bridge <u>Coordinates:</u> N: 1008342.79' E: 2806758.22

BM #16 - Chiseled "U" on top centerline of West side of curb inlet, at North end of island for View High Drive, 1st inlet South of Meers Road. <u>Coordinates:</u> N: 1007918.62' E: 2803553.77 EL: 830.12'

Final Development Plan Boundary Description:

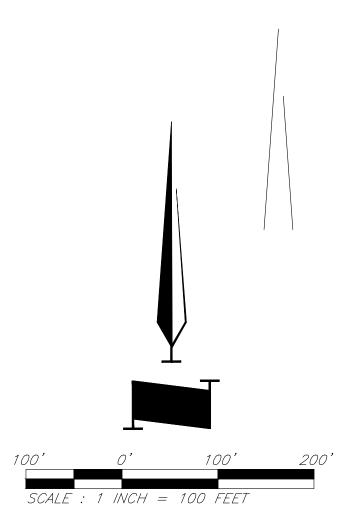
All that part of the Northwest Quarter of Section 34. Township 48 South. Range 32 West of the Fifth Principal Meridian, and a part of Graham Commercial Center, a Subdivision in the City of Lee's Summit, Jackson County, Missouri, more particularly described as follows:

Commencing at the Northwest Corner of the Southwest Quarter of said Northwest Quarter, thence South 86°26'21" East, along the North line of said Quarter Quarter, a distance of 379.61 feet, to the Northwest Corner of Graham Commercial Center, recorded in Book 63, Page 89: thence South 02°17'50" West, departing said North line, and along the West line of said Graham Commercial Center, a distance of 18.44 feet, to the Point of Beginning; thence South 86°20'31" East, departing said West line, a distance of 694.94 feet, to a point on the East line of said Graham Commercial Center; thence South 14°24'57" East, along said East line, a distance of 92.66 feet; thence North 90°00'00" West, departing said East line, a distance of 40.47 feet; thence South 00°00'00" East, a distance of 55.90 feet; thence South 40°15'53" West, a distance of 419.66 feet; thence North 69°50'05" West, a distance of 19.70 feet; thence South 20°12'25" West, a distance of 268.55 feet, to a point on the North Right-of-Way line of US Interstate Highway 470, as now established; thence North 85°08'16" West, along said North Right-of-Way line, a distance of 16.67 feet; thence South 60°28'47" West, a distance of 97.11 feet; thence North 69°51'07" West, a distance of 342.09 feet; thence North 30°28'52" West, a distance of 87.88 feet, departing said North Right-of-Way line, and transitioning to the East Right-of-Way line of Northwest View High Drive, as now established; thence North 07°21'08" East, along said East Right-of-Way line, a distance of 92.10 feet; thence South 69°50'05" East, departing said East Right-of-Way line, a distance of 97.12 feet; thence North 20°09'55' East, a distance of 165.51 feet; thence North 69°50'05" West, a distance of 69.13 feet, to a point on the West line of said Graham Commercial Center; thence North 31°48'12" East, continuing along said West line, a distance of 128.21 feet; thence North 02°17'50" East, a distance of 262.50 feet, to the Point of Beginning, containing 416,212.99 square feet, or 9.55 acres, more or less.

EXCEPT for the following:

Commencing at the Northwest Corner of the Southwest Quarter of said Northwest Quarter, thence South 86°26'13" East, along the North line of said Quarter Quarter. a distance of 495.45 feet; thence South 03°33'39" West, departing said North line, a distance of 108.62 feet, to the Point of Beginning; thence South 86°20'28" East. a distance of 466.21 feet; thence South 03°37'51" West, a distance of 67.01 feet; thence North 86°24'48" West, a distance of 8.02 feet; thence South 40°15'39" West, a distance of 153.79 feet; thence South 46°39'29" West, a distance of 112.34 feet; thence South 39°55'15" West, a distance of 36.50 feet; thence North 70°29'07" West, a distance of 81.51 feet; thence North 57°36'52" West, a distance of 53.24 feet; thence North 20°16'17" East, a distance of 57.64 feet; thence North 30°16'07" West, a distance of 92.79 feet; thence North 02°16'25" West, a distance of 77.41 feet; thence North 86°20'31" West, a distance of 84.00 feet; thence North 15°49'01" West, a distance of 47.73 feet, to the Point of Beginning, containing 80,949.87 square feet, or 1.86 acres, more or less.

Plat area containing 335,263.12 square feet, or 7.69 acres, more or less, after



Prepared and Submitted By:

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PROJECT:

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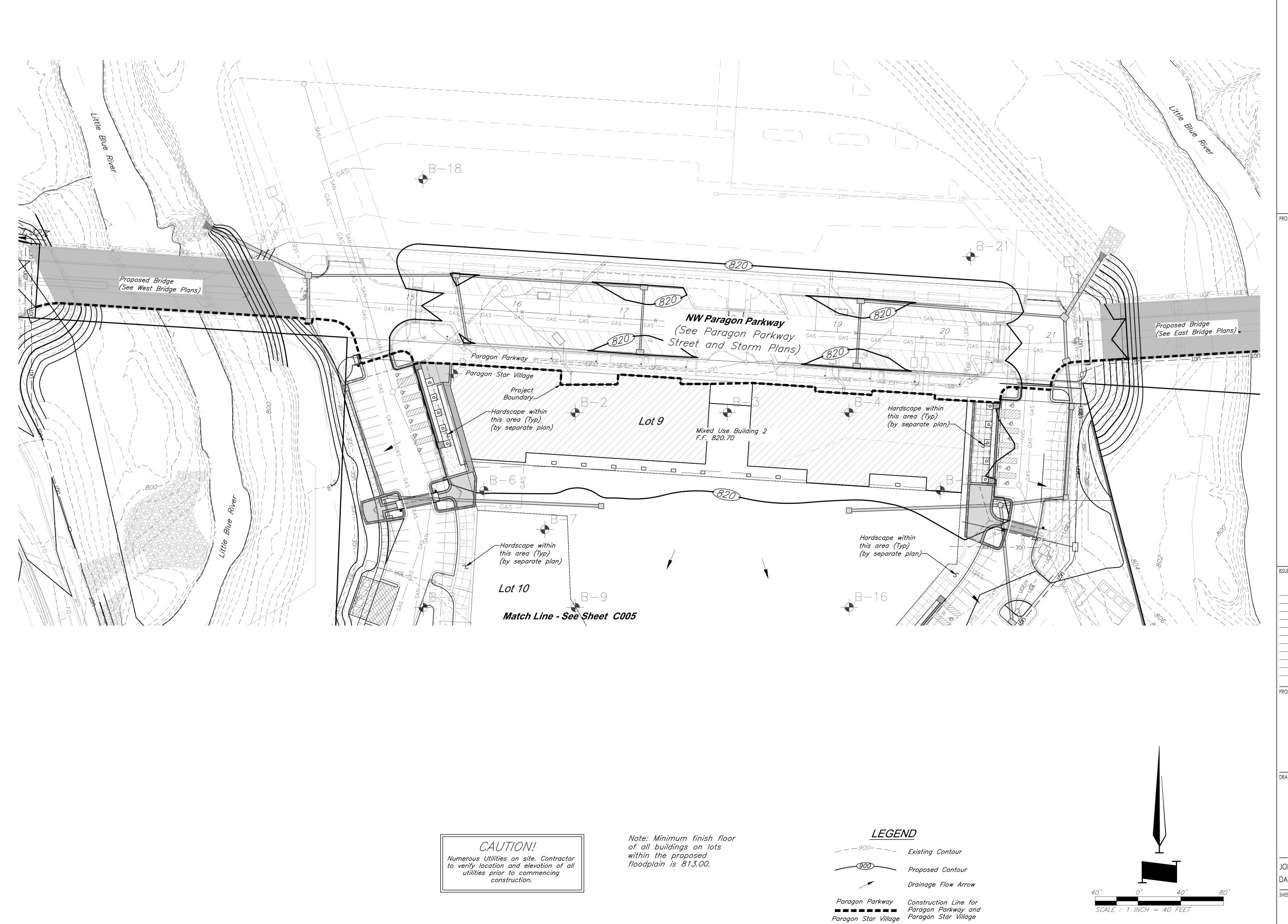
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PROFESSIONAL SEAL: CLINT LOUMASTER NUMBER PE-2011009651

DRAWING TITLE:

FDP Lot Layout



CIVIL ENGINEERING

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LANDSCAPE ARCHITECTURE LAND3 Studio, LLC

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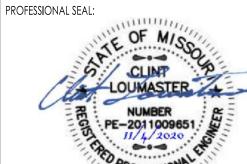
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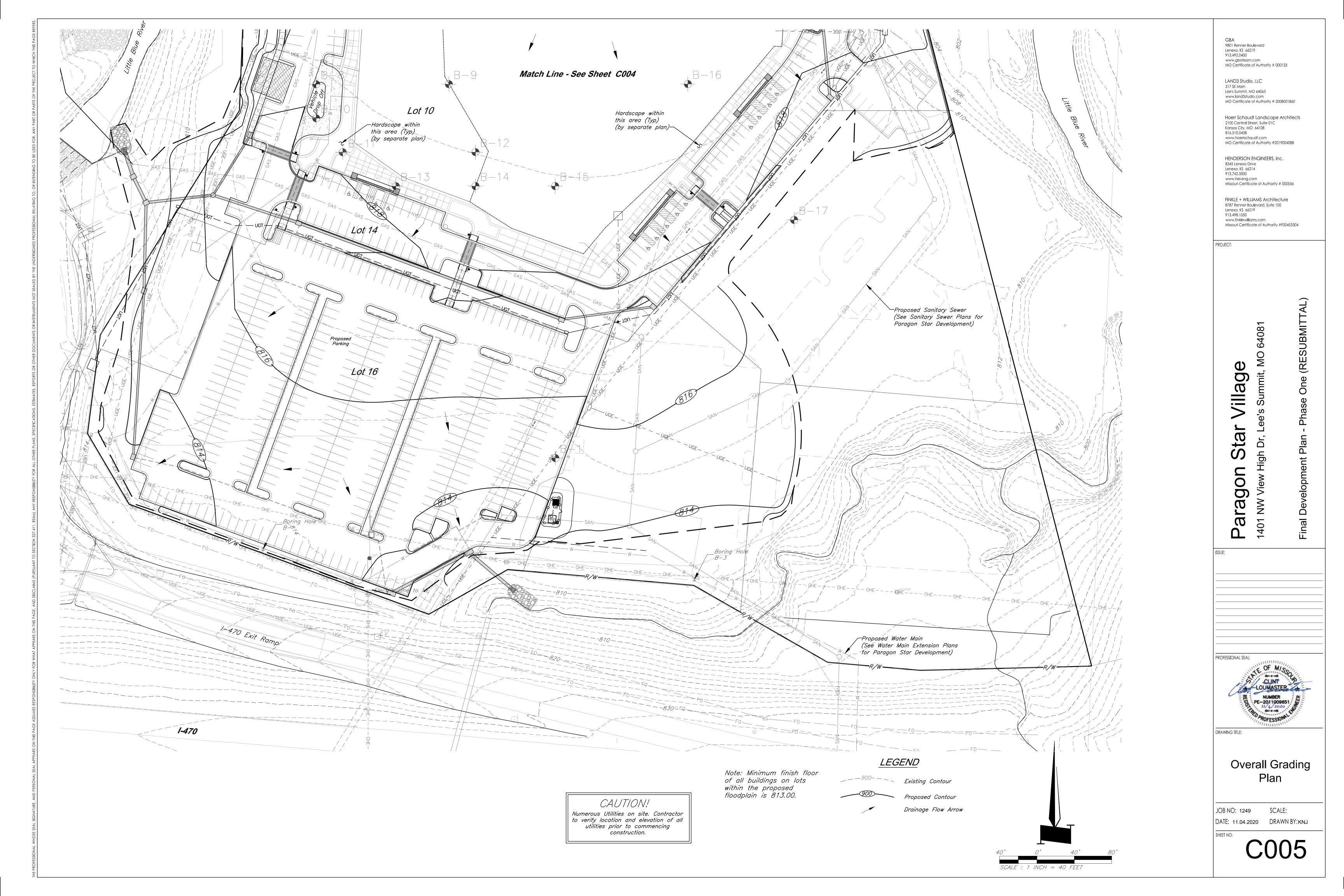
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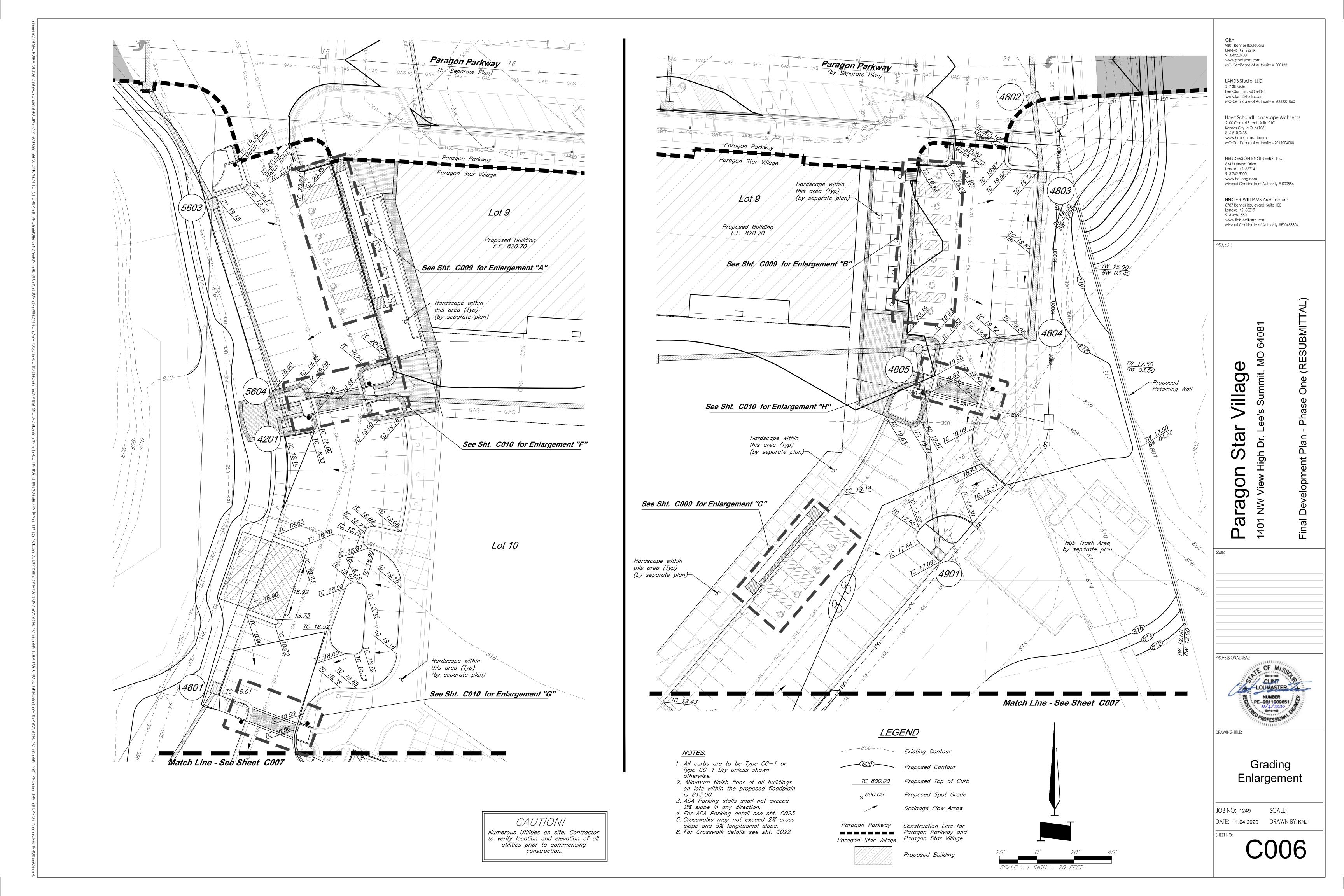
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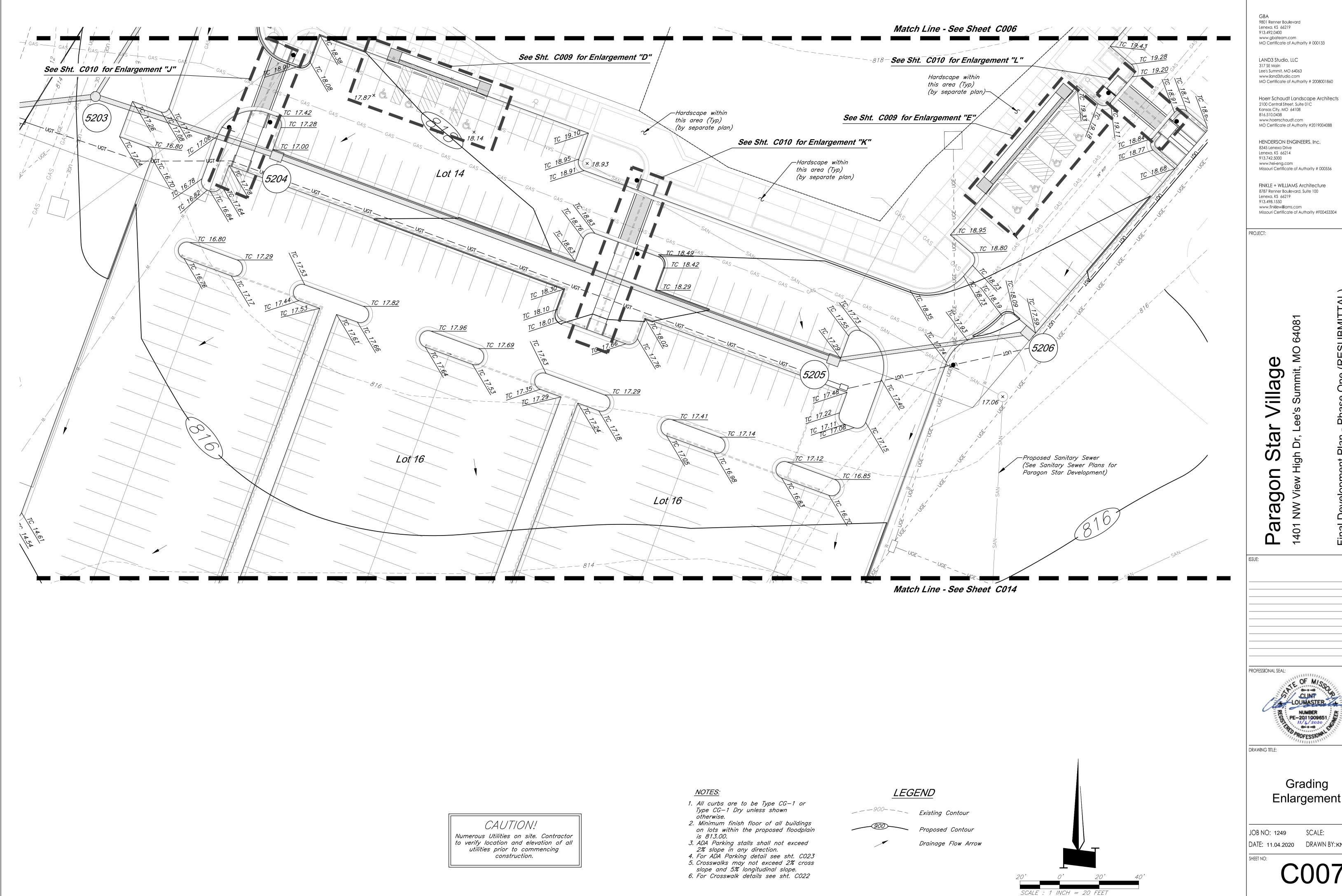


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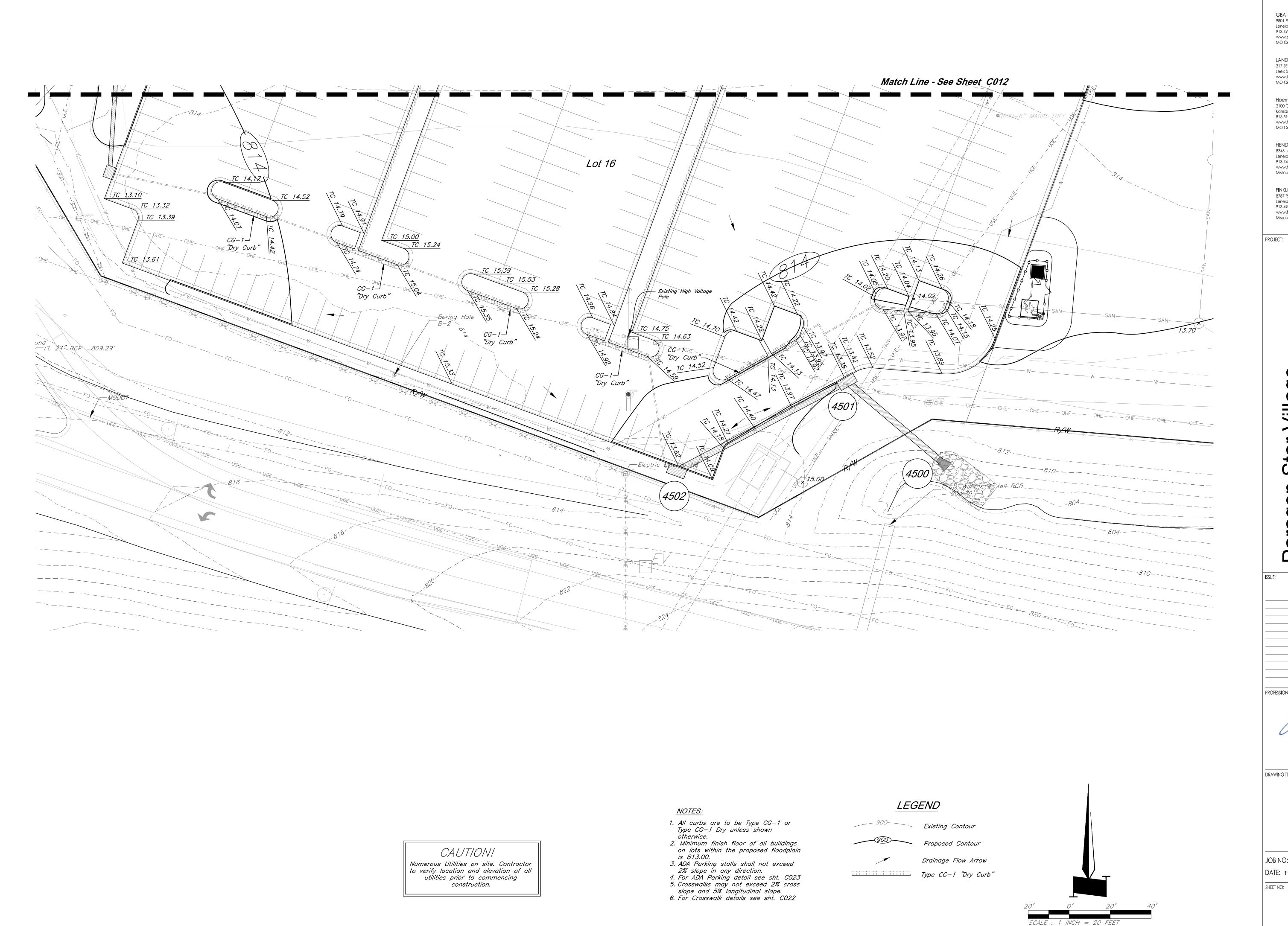






Grading Enlargement

DATE: 11.04.2020 DRAWN BY:KNJ



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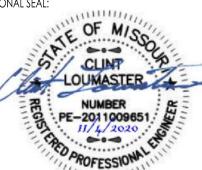
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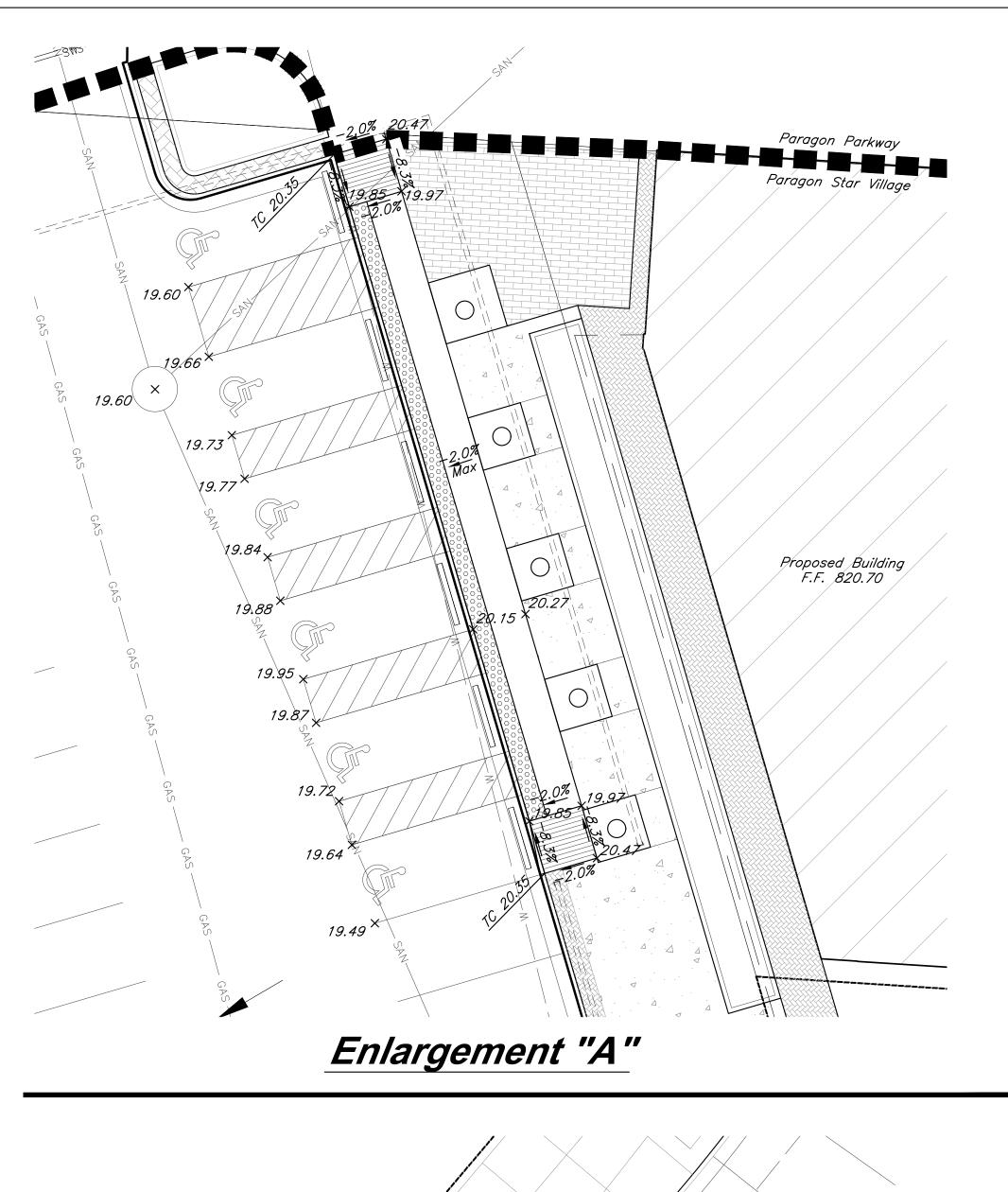
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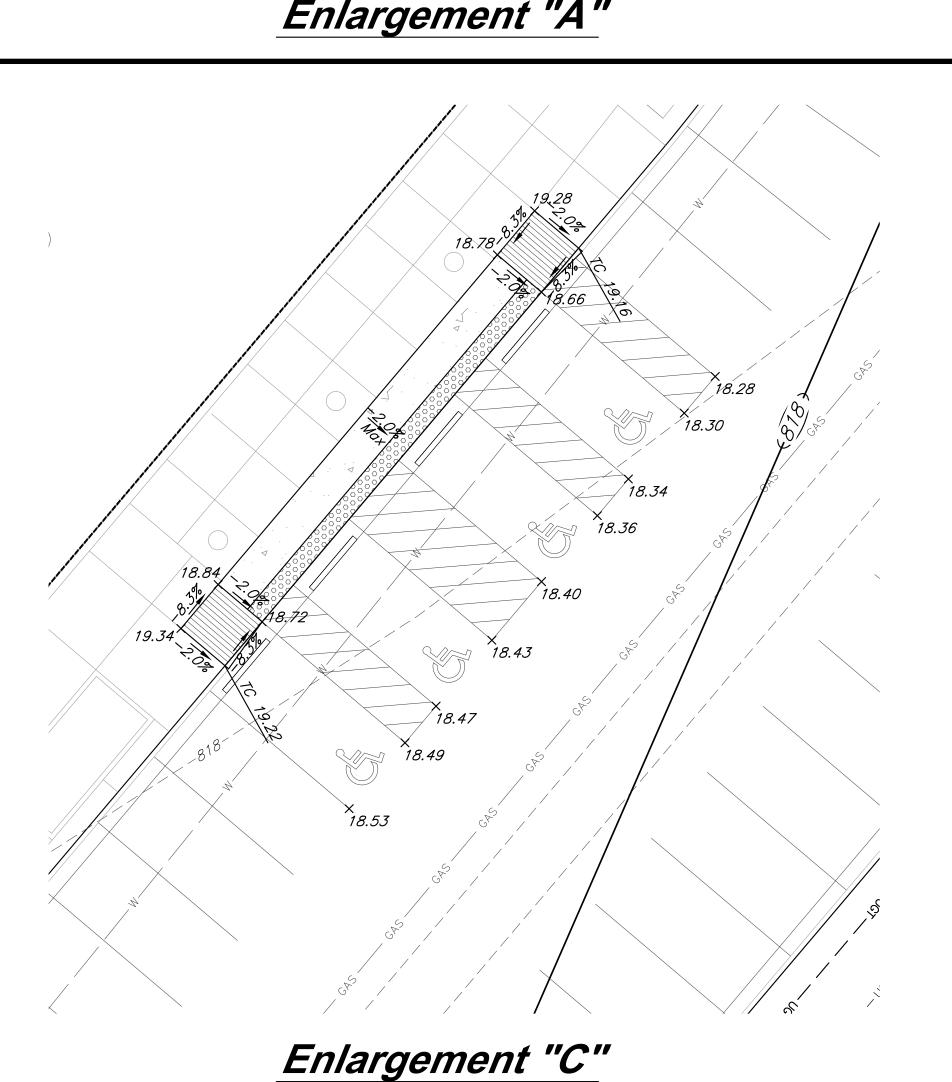
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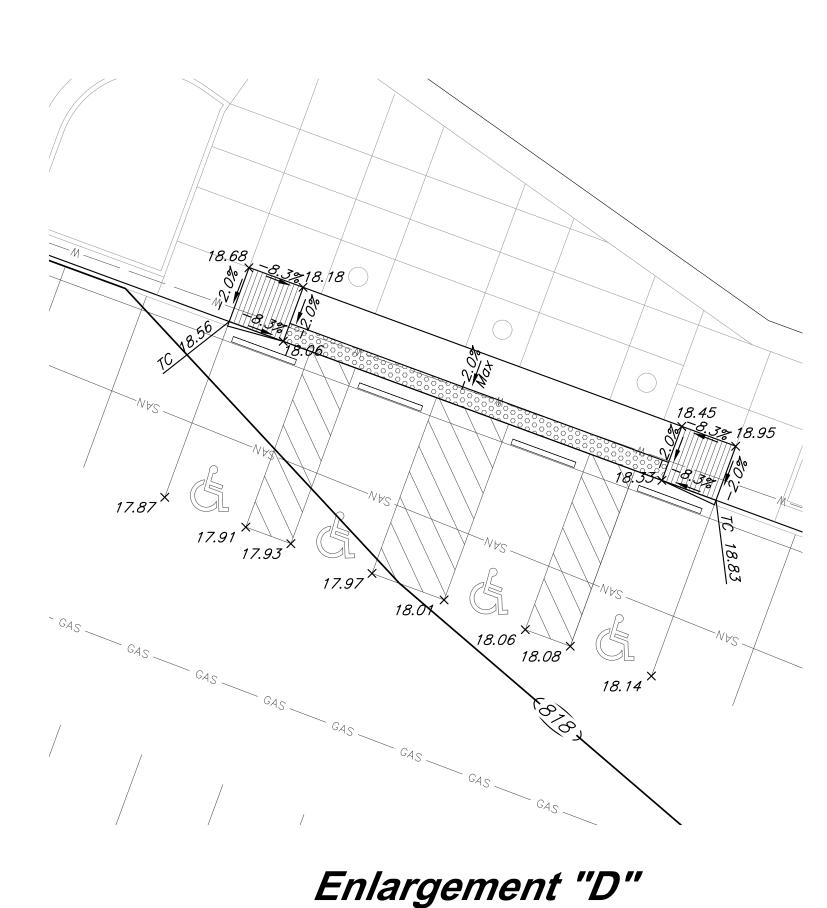


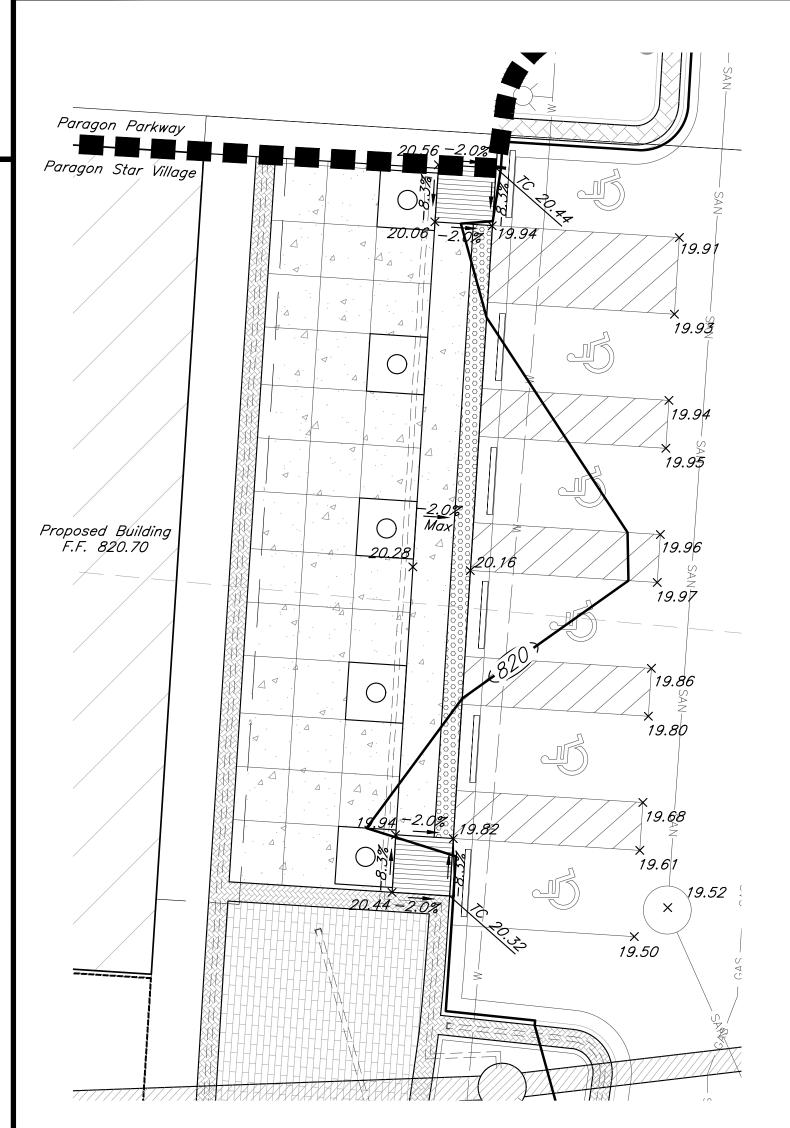
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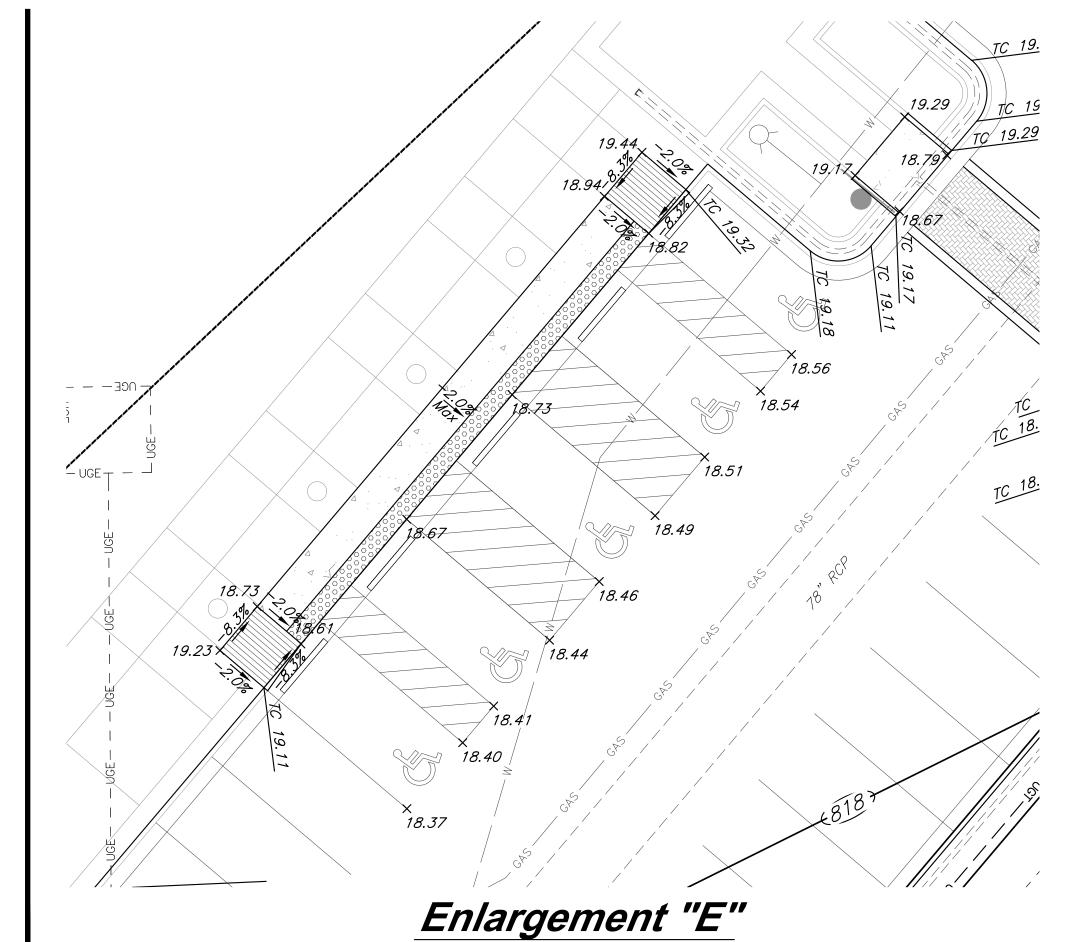








Enlargement "B"



- All curbs are to be Type CG-1 or Type CG-1 Dry unless shown otherwise.
- 2. Minimum finish floor of all buildings on lots within the proposed floodplain is 813.00.
- 3. ADA Parking stalls shall not exceed
 2% slope in any direction.
 4. For ADA Parking detail see sht. C023
 5. Crosswalks may not exceed 2% cross
 slope and 5% longitudinal slope.

CAUTION!

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

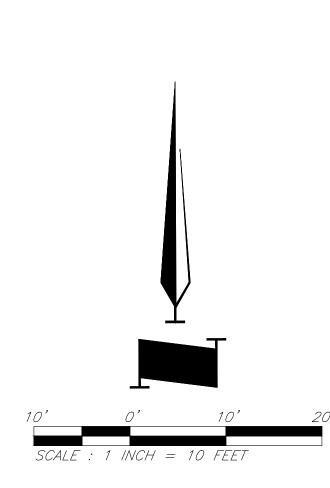
LEGEND

____800-___ Existing Contour -800 Proposed Contour

> Proposed Top of Curb Proposed Spot Grade

Drainage Flow Arrow

Paragon Parkway Construction Line for Paragon Star Village Paragon Star Village



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PROJECT:

HENDERSON ENGINEERS, Inc.

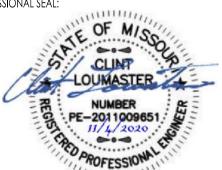
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aragon 1401 NW

PROFESSIONAL SEAL:

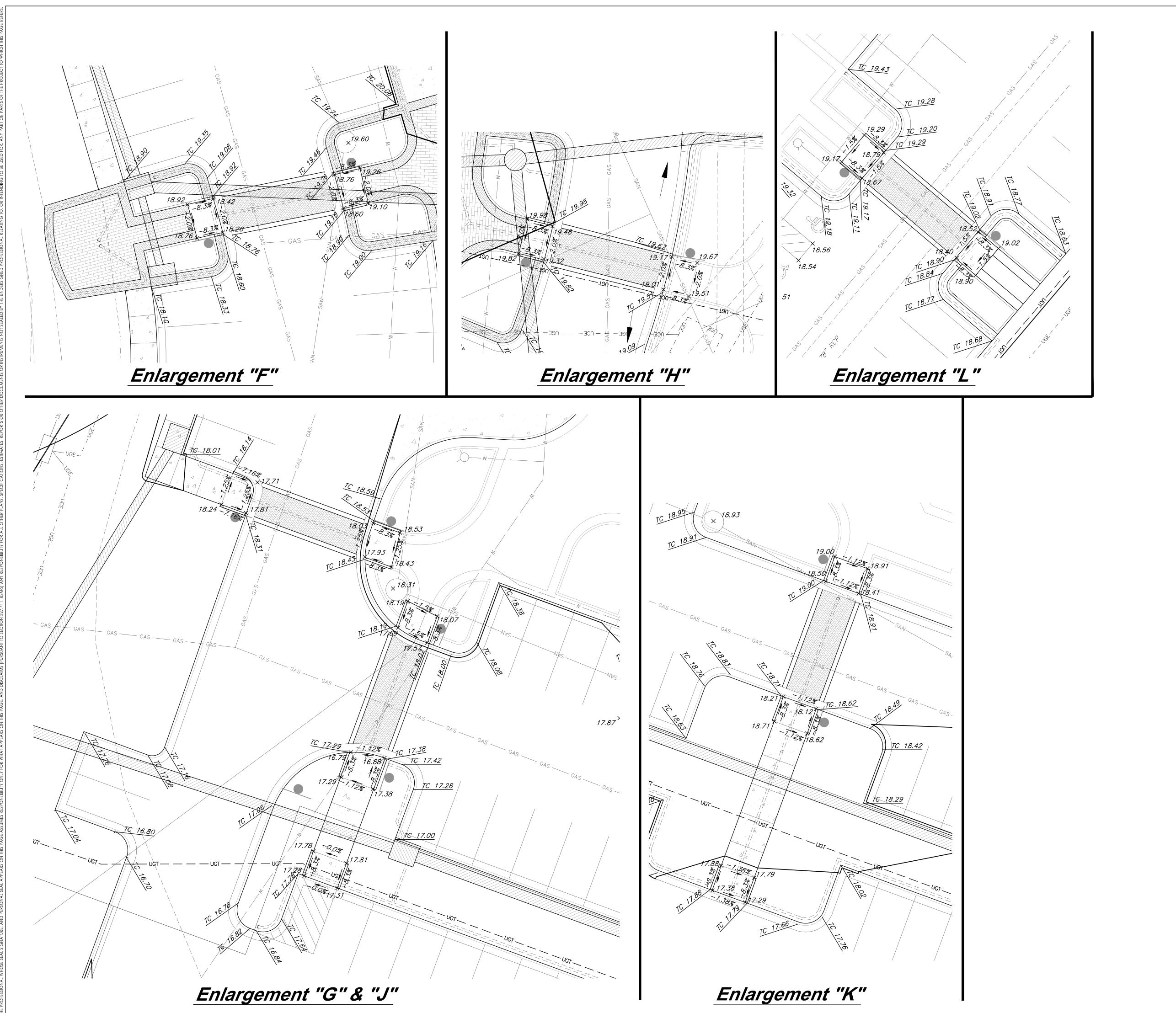


DRAWING TITLE:

Grading Enlargement

SCALE: JOB NO: 1249 DATE: 11.04.2020 DRAWN BY:KNJ

C009



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

LEGEND

____800-___ Existing Contour

Proposed Contour

Proposed Spot Grade

Drainage Flow Arrow

NOTES:

- All curbs are to be Type CG-1 or Type CG-1 Dry unless shown otherwise.
 Minimum finish floor of all buildings on lots within the proposed floodplain is 813.00.
 ADA Parking stalls shall not exceed 2% slope in any direction.
 For ADA Parking detail see sht. CO23
 Crosswalks may not exceed 2% cross slope and 5% longitudinal slope.

CAUTION!

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LAND3 Studio, LLC

317 SE Main Lee's Summit, MO 64063 www.land3studio.com MO Certificate of Authority # 2008001860

Hoerr Schaudt Landscape Architects 2100 Central Street, Suite 01C Kansas City, MO 64108 816.510.0438 www.hoerrschaudt.com MO Certificate of Authority #2019004088

HENDERSON ENGINEERS, Inc.

8345 Lenexa Drive Lenexa, KS 66214 913.742.5000 www.hei-eng.com Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture 8787 Renner Boulevard, Suite 100 Lenexa, KS 66219 913.498.1550 www.finklewilliams.com Missouri Certificate of Authority #F00453304

(RESUBMIT

Paragon

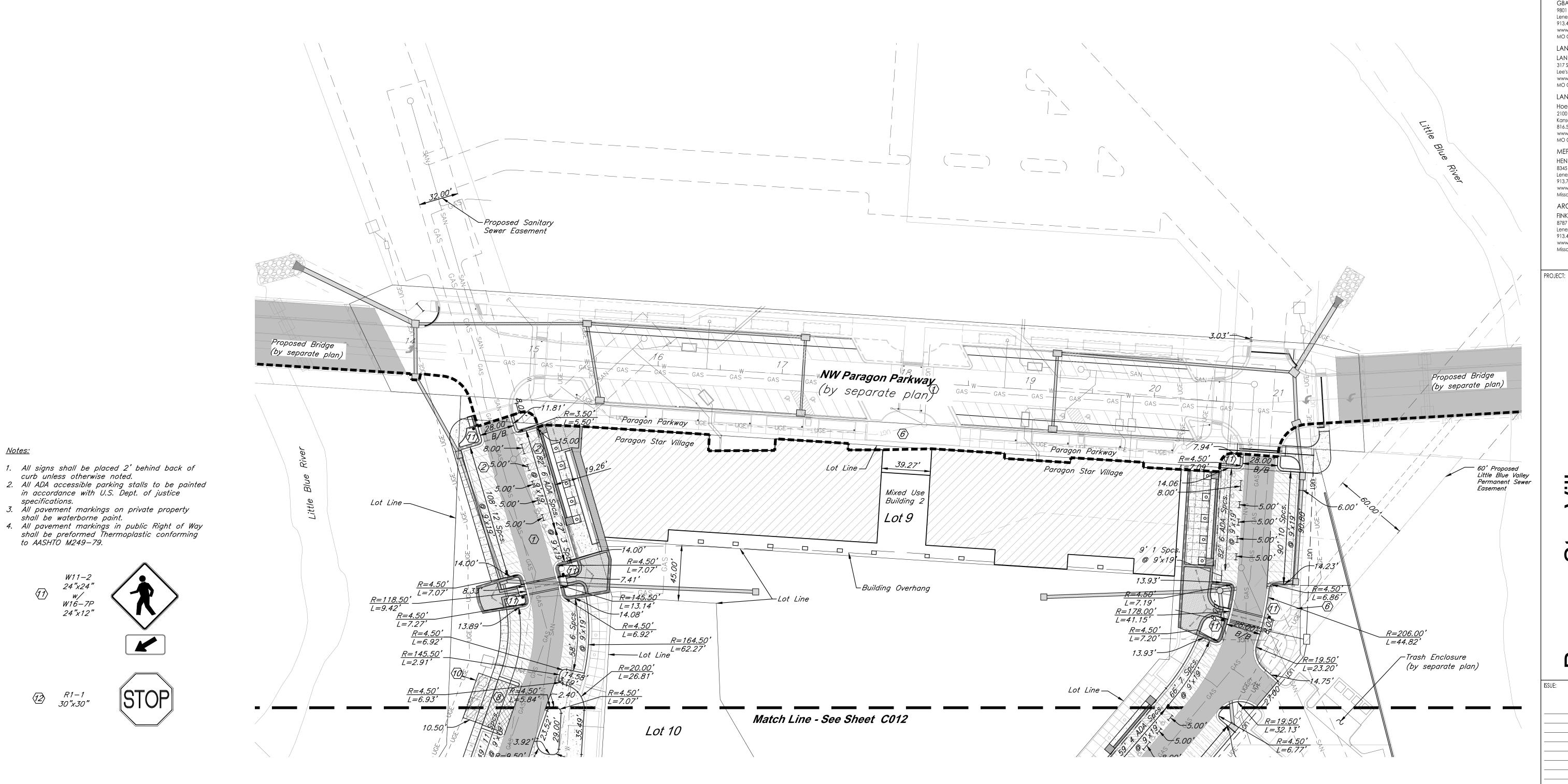


DRAWING TITLE:

Grading Enlargement

JOB NO: 1249 SCALE: DATE: 11.04.2020 DRAWN BY: KNJ

C010





<u>Notes:</u>

R1−1 30"x30"

24"x24" w/ W16-7P 24"x12"

1. All signs shall be placed 2' behind back of

3. All pavement markings on private property

curb unless otherwise noted.

shall be waterborne paint.

to AASHTO M249-79.

specifications.



CONSTRUCTION NOTES:

- 1 Proposed HD Asphalt Pavement
- $\langle 2 \rangle$ Proposed LD Asphalt Pavement
- ③ Type CG-1 Curb & Gutter
- $\langle 4 \rangle$ Type CG-1 "Dry" Curb & Gutter
- $\langle 6
 angle$ Construct Concrete Walk
- 8 No Parking Pavement Striping for Trash Enclosure
- $\langle g
 angle$ Construct Type "A" ADA Ramp
- (See Arch. Plans)
- (See Detail this Sheet)
- (See Detail this Sheet)

DIMENSION NOTES:

- All curbs are to be Type CG-1 or Type CG-1 Dry unless shown otherwise.
 Unless otherwise specified, all dimensions
- are to the back of curb and dimension ties to property line are measured at
- right angles to property lines. 3. See Sheets CO22 CO23 for construction details.

CAUTION! Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing

construction.

Proposed HD Asphalt Surface Proposed LD Asphalt Surface Proposed Concrete Pavement Paragon Parkway Proposed HD Concrete Pavement Paragon Star Village (Trash Enclosure) Proposed Building

LEGEND

Proposed Water Line

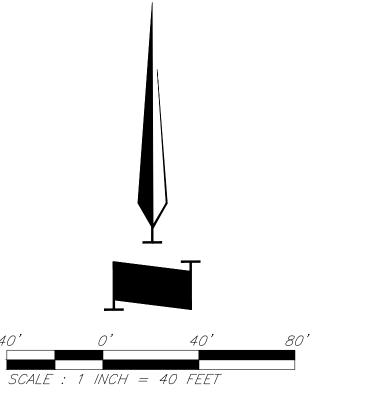
Existing Sanitary Sewer

Proposed Storm Sewer

Stream Corridor Crosswalk Sign / Stop Sign (Typ)

Construction Line for Paragon

Parkway and Paragon Star Village



ta aragon \geq 1401

CIVIL ENGINEERING

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2100 Central Street, Suite 01C Kansas City, MO 64108

www.hoerrschaudt.com

MEP ENGINEERING

8345 Lenexa Drive Lenexa, KS 66214 913.742.5000 www.hei-eng.com

ARCHITECTURE

Lenexa, KS 66219

913.498.1550 www.finklewilliams.com

816.510.0438

MO Certificate of Authority # 000133 LANDSCAPE ARCHITECTURE

MO Certificate of Authority # 2008001860 LANDSCAPE ARCHITECTURE Hoerr Schaudt Landscape Architects

MO Certificate of Authority #2019004088

Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture

Missouri Certificate of Authority #F00453304

8787 Renner Boulevard, Suite 100

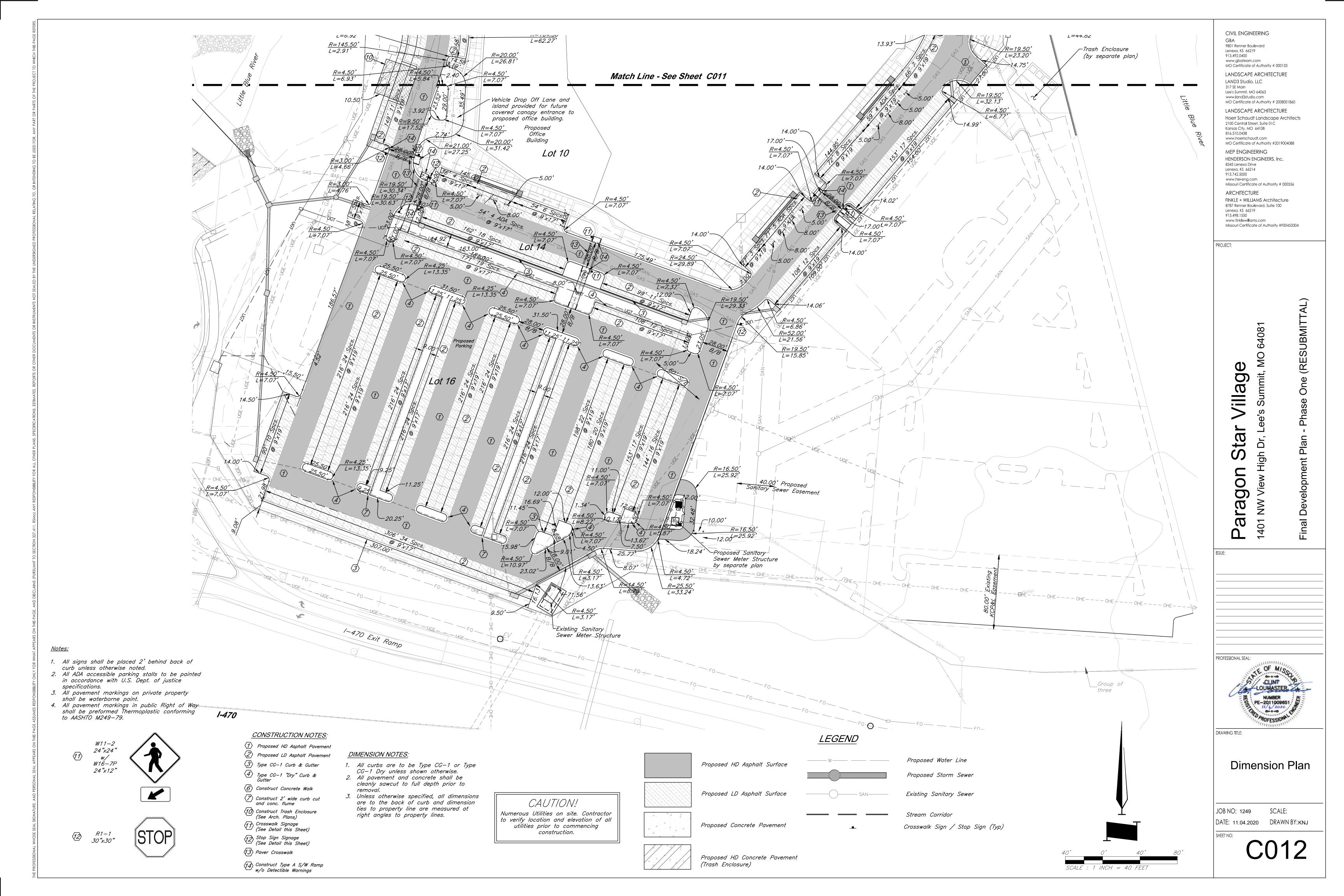
HENDERSON ENGINEERS, Inc.

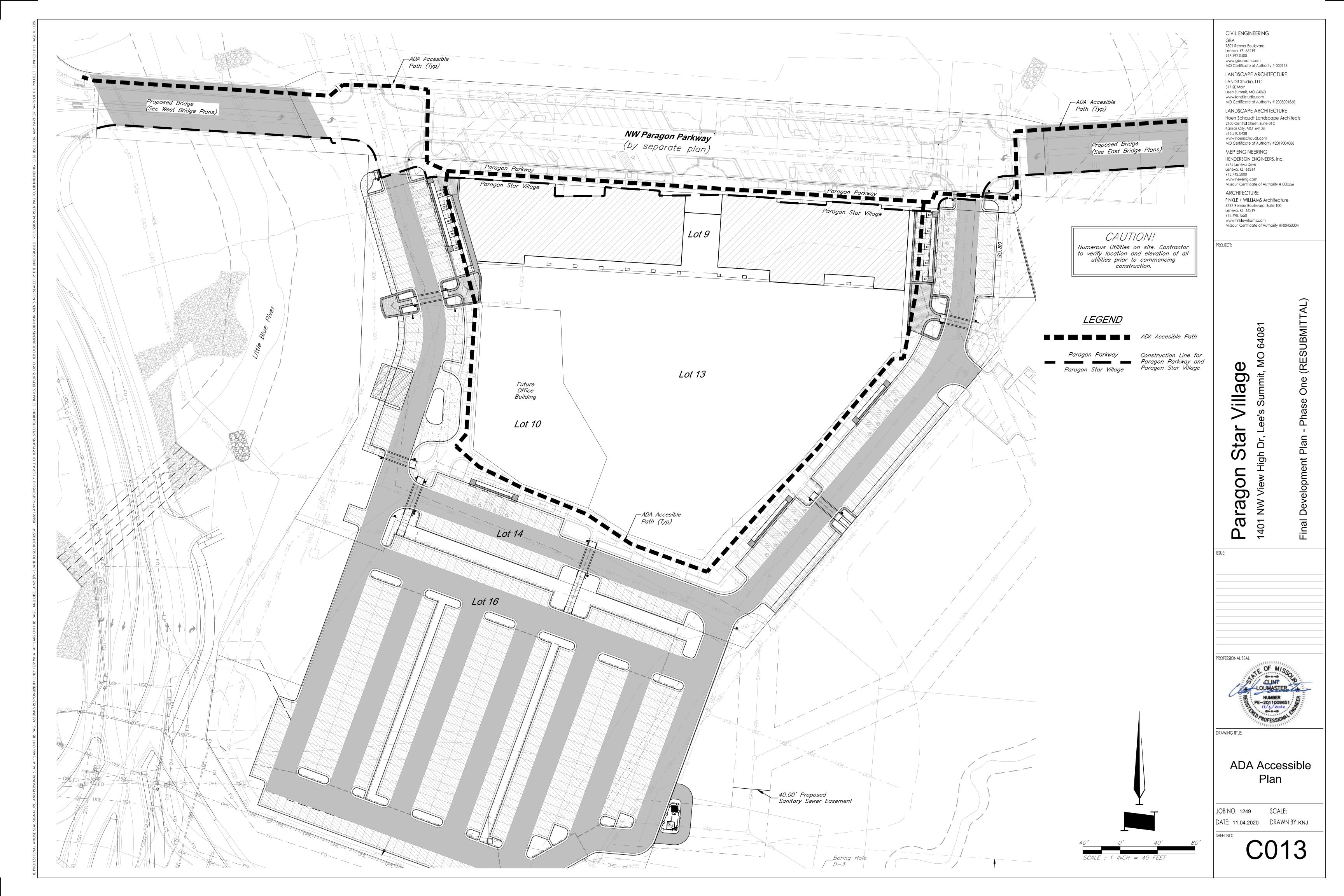
PROFESSIONAL SEAL: NUMBER PE-2011009651 II/4/2020

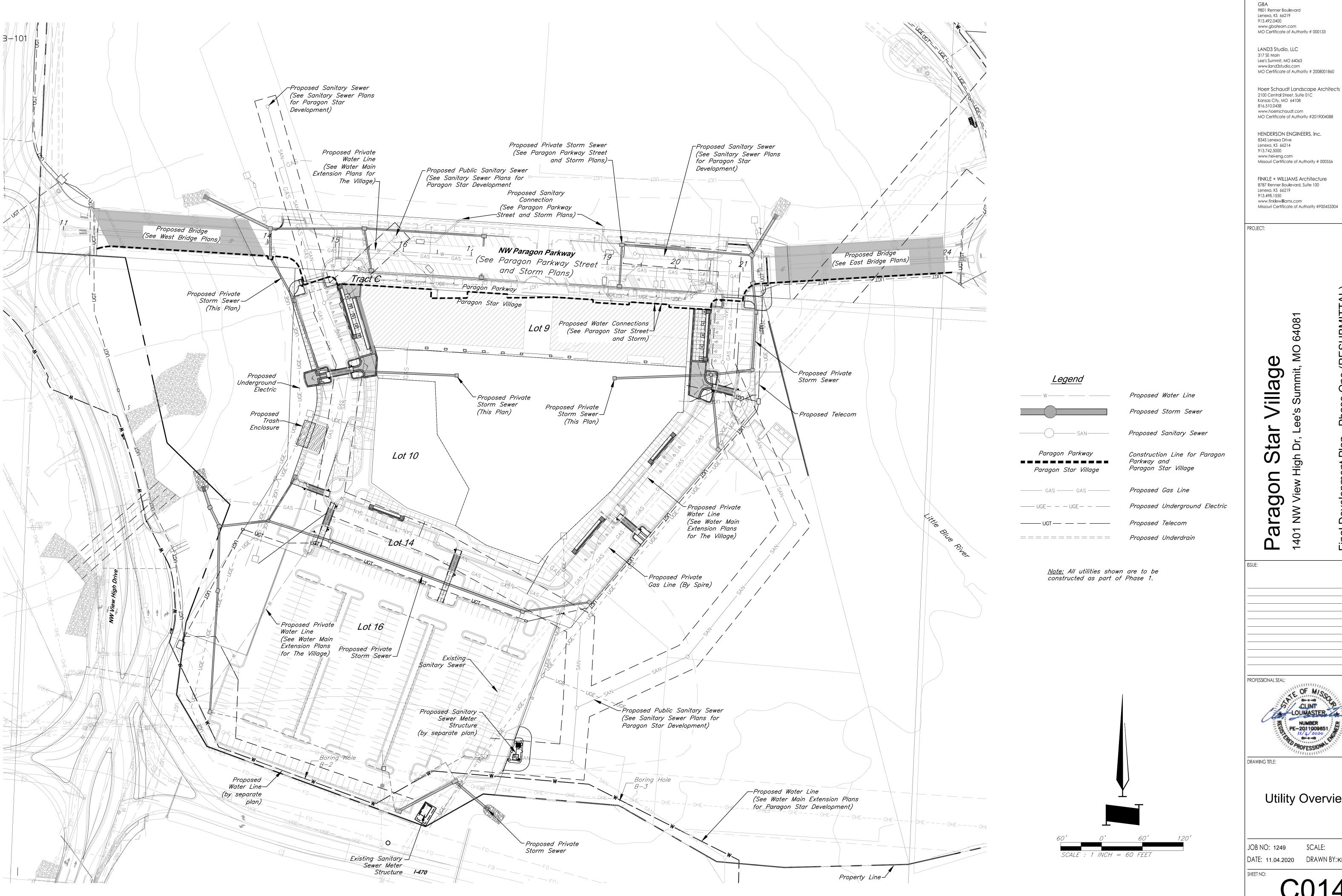
De

DRAWING TITLE:

Dimension Plan







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PROJECT:

(RESUBMIT

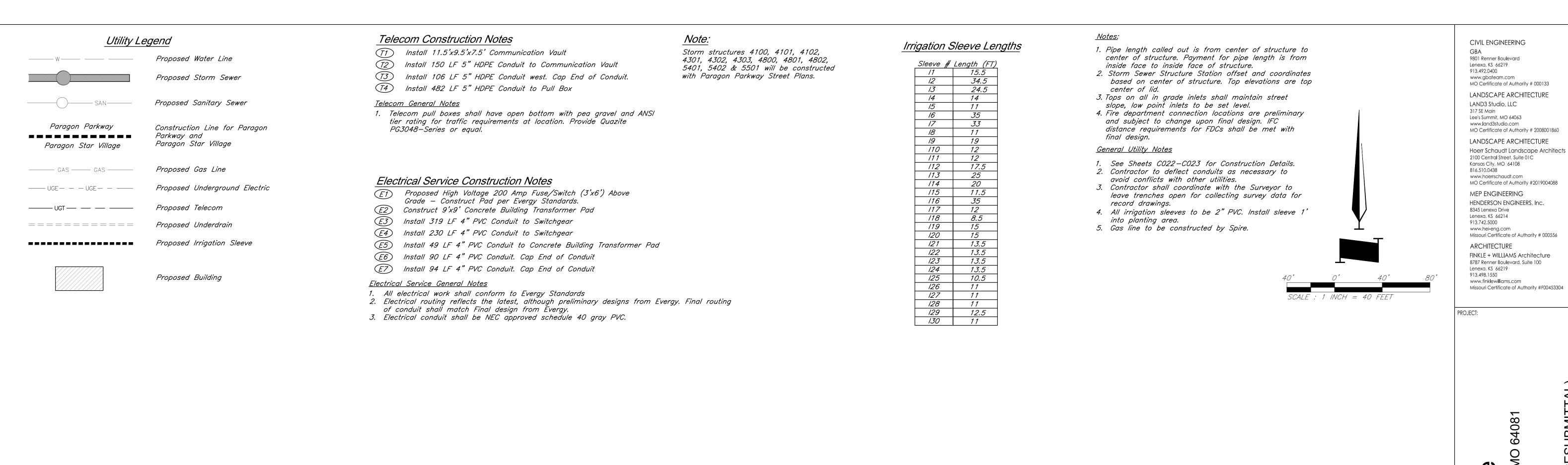
One

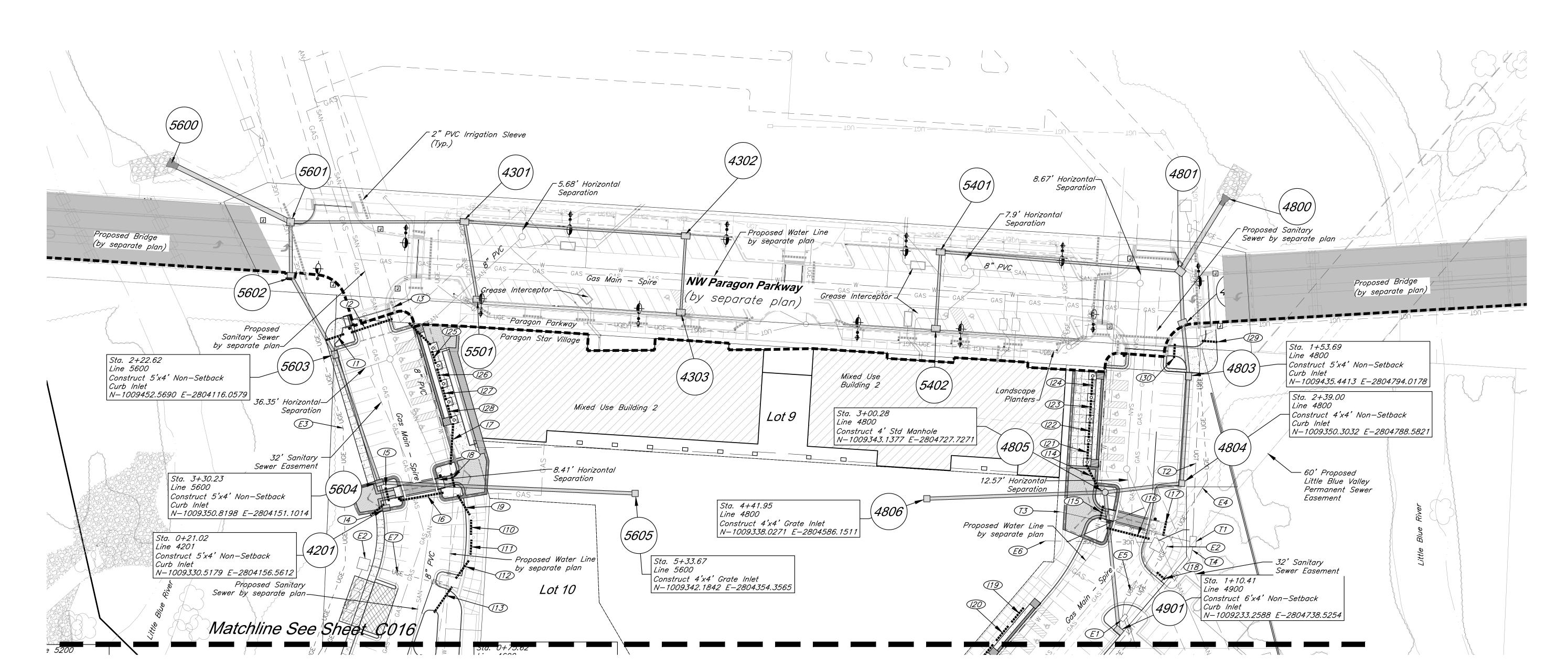
'illage tar aragon 1401 NW



DRAWING TITLE:

Utility Overview





Paragon Star Village

SUBMIT

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ESSIONAL SEAL:

CLINT LOUMASTER

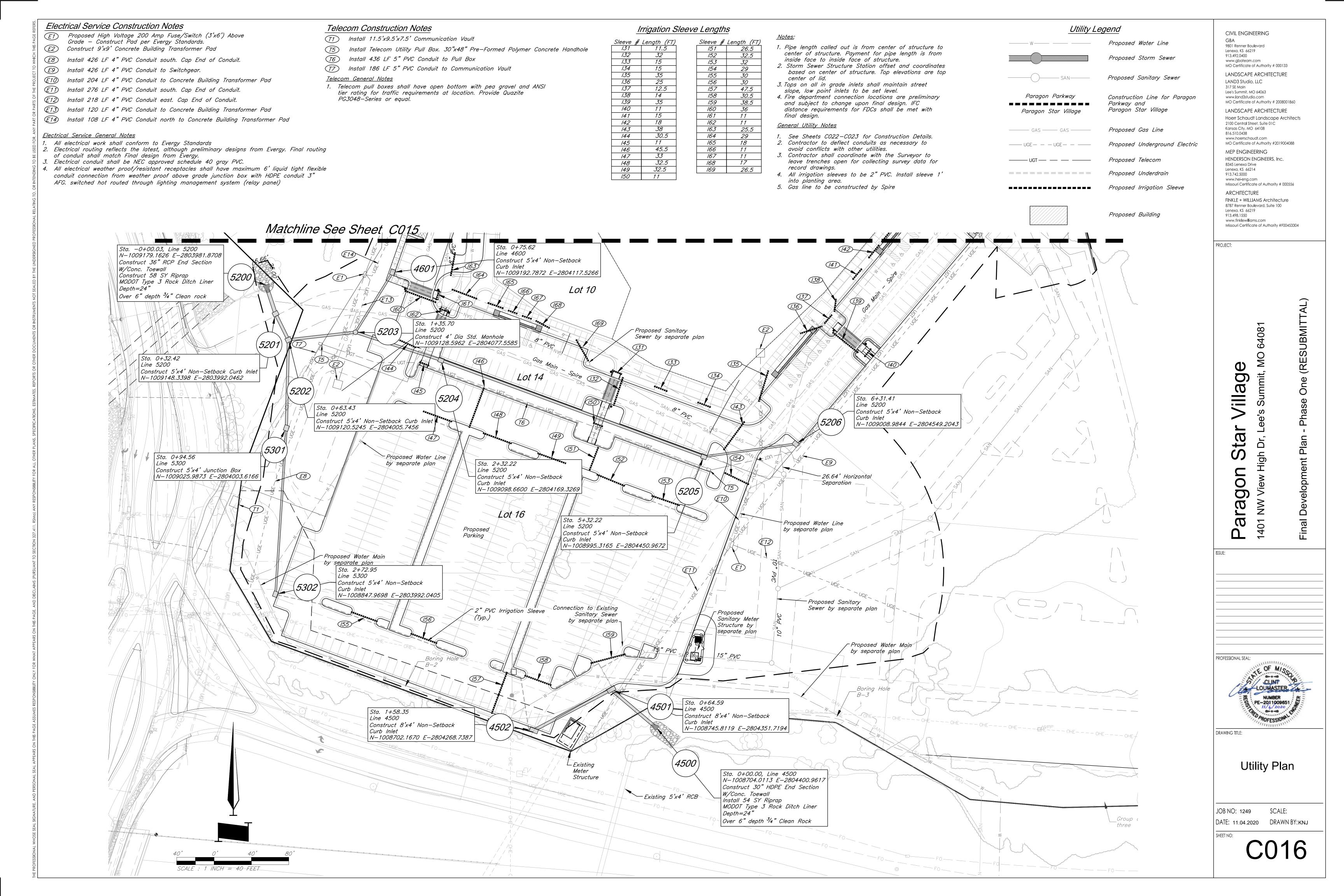
NUMBER
PE-2011009651

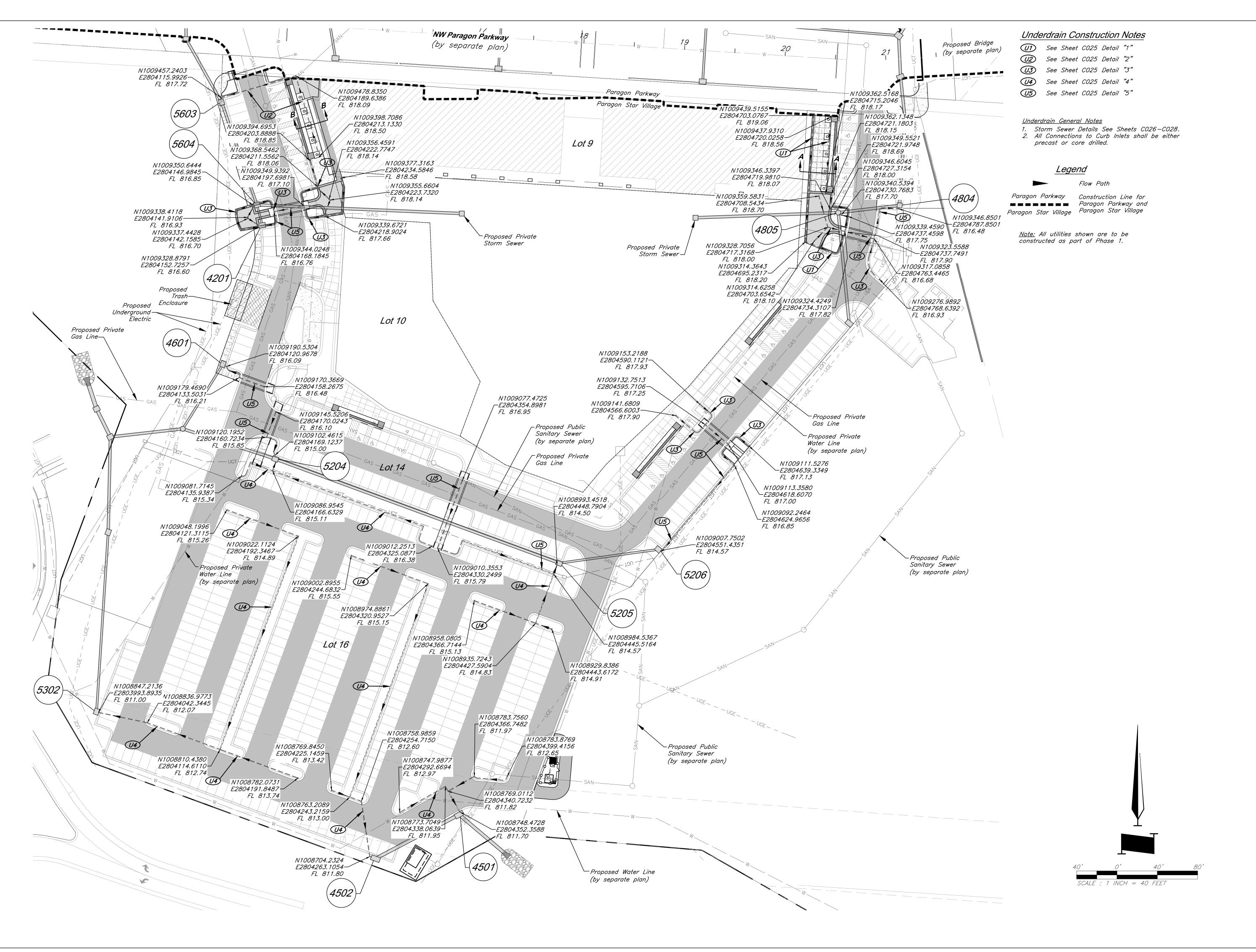
DRAWING TITLE:

Utility Plan

JOB NO: 1249 SCALE:
DATE: 11.04.2020 DRAWN BY: KNJ

C015





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PROJECT:

SUBMIT

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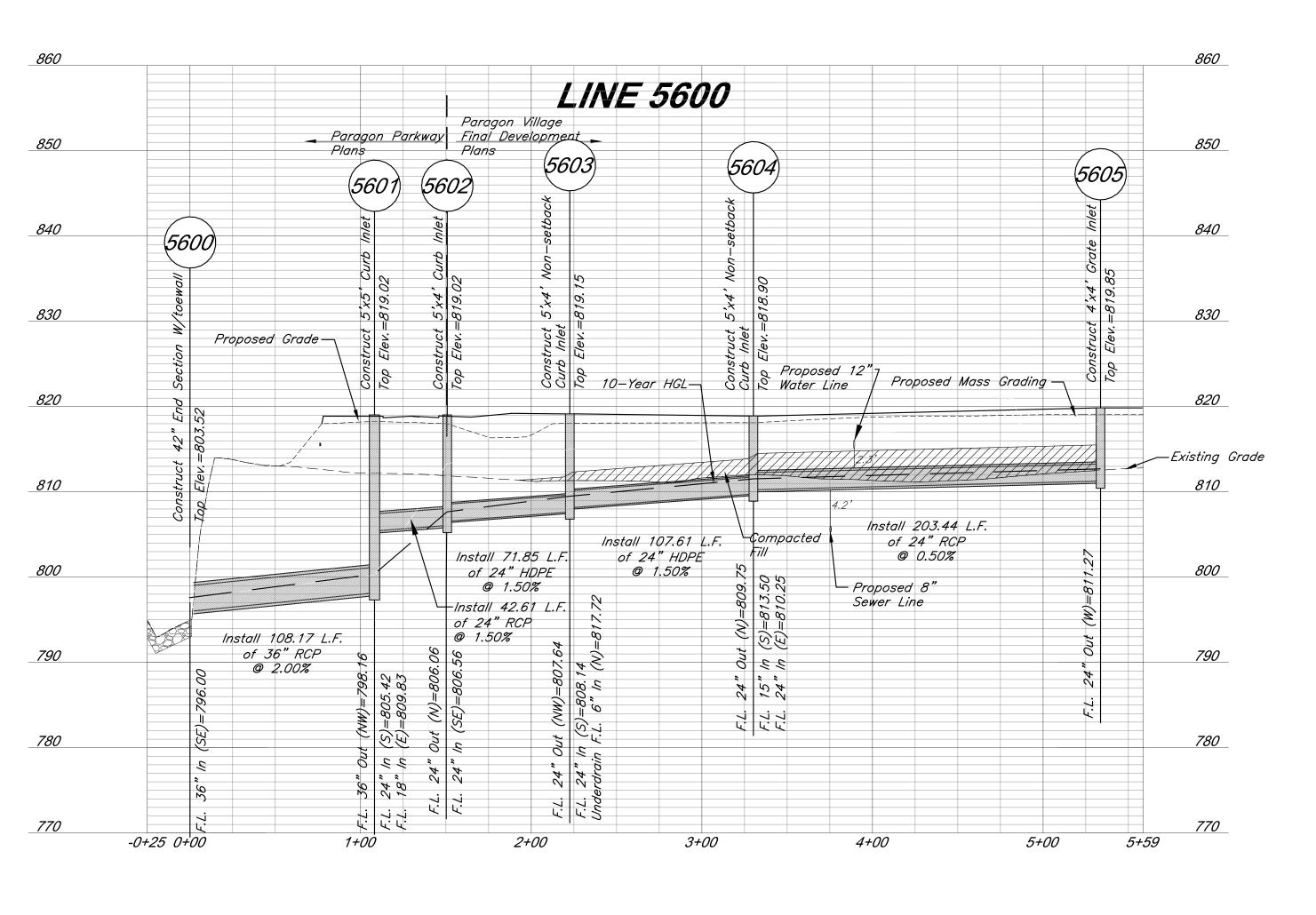
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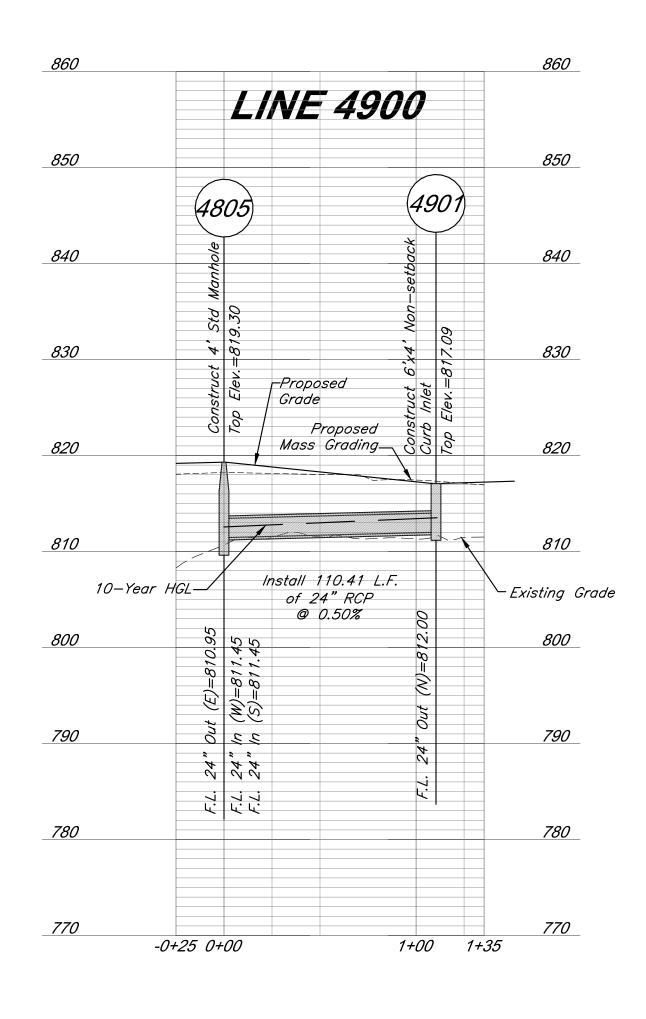
PROFESSIONAL SEAL:



DRAWING TITLE:

Underdrain -Construction Notes





Connections:

- 1) Line 4200 Sta 0+00.00 = Line 5600 Sta 3+30.23
- ② Line 4900 Sta 0+00.00 =

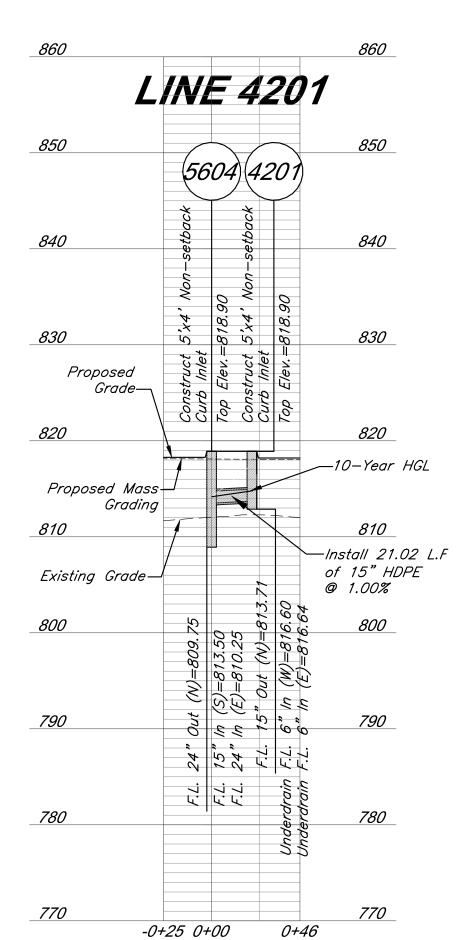
Line 4800 Sta 3+00.28

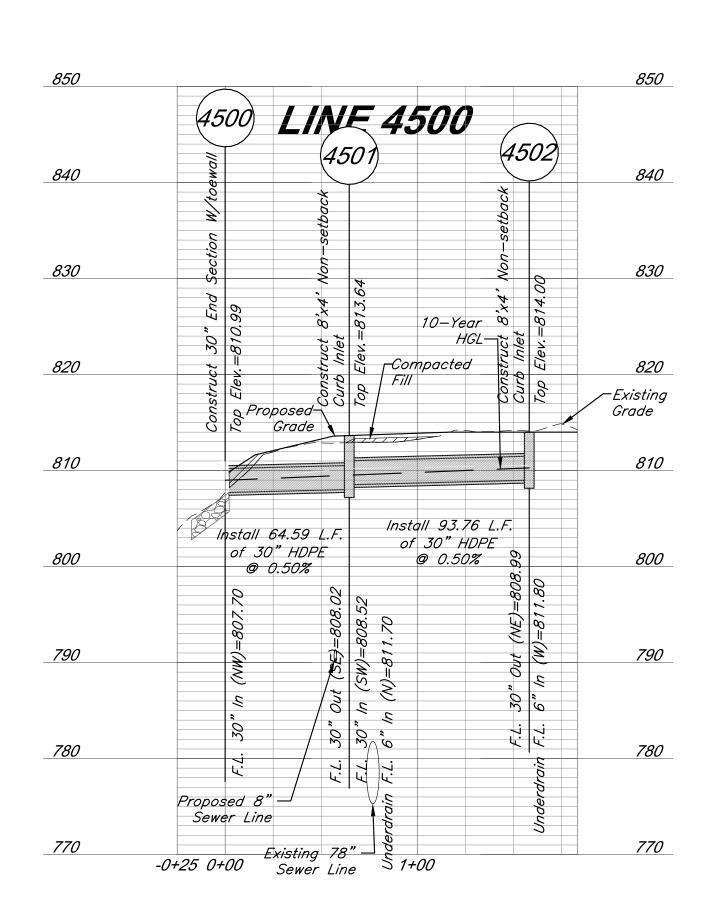
- ③ Line 5300 Sta 0+00.00 = Line 5200 Sta 0+62.11
- 4 Line 4600 Sta 0+00.00 = Line 5200 Sta 1+34.91

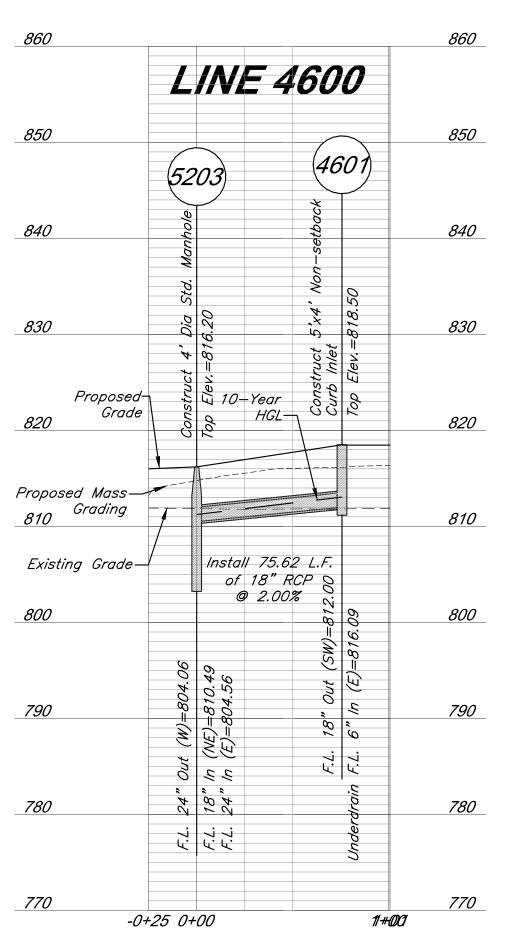
LEGEND

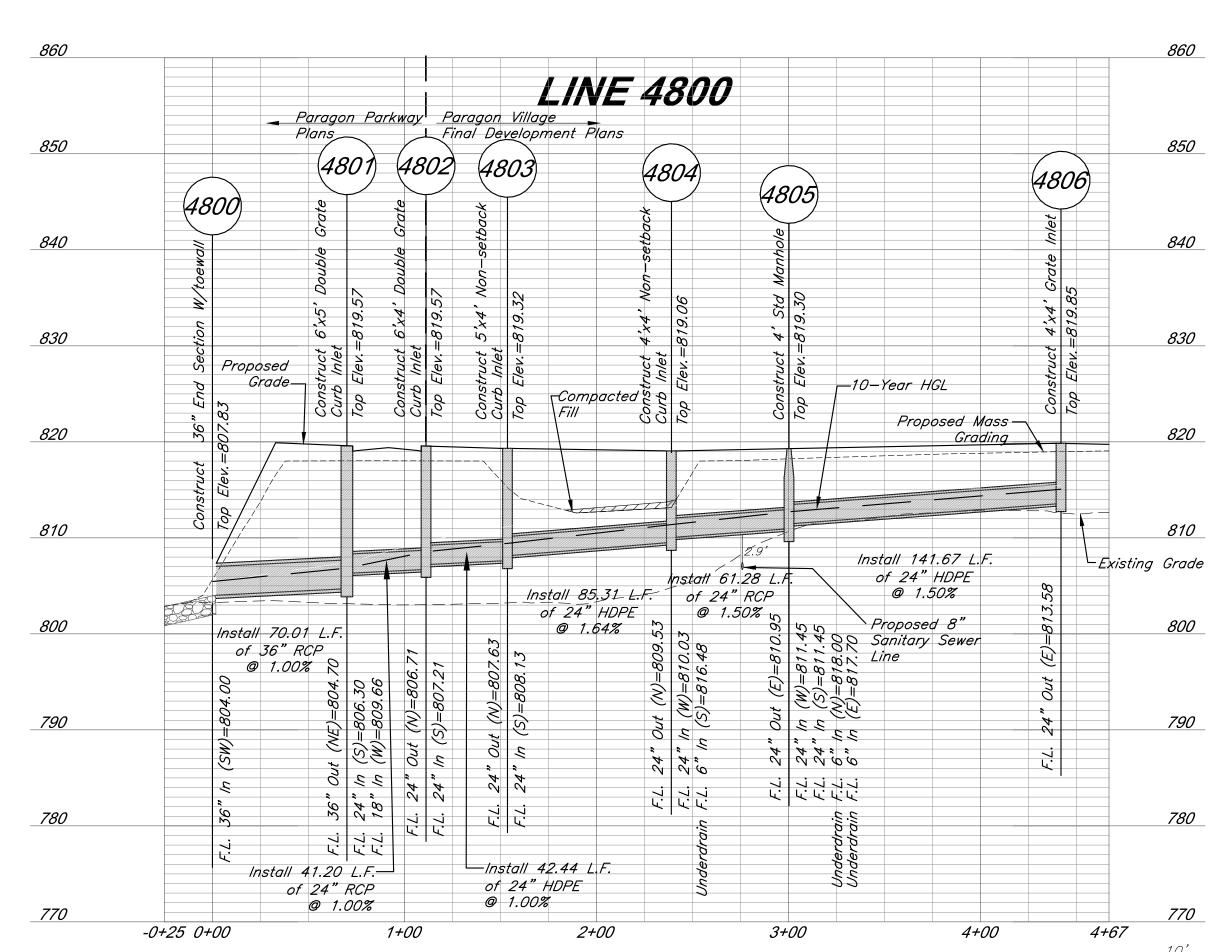


Compacted Fill shall be placed to a minimum of 18 inches above the top of pipe prior to installation.









Horizontal Scale: 1" = 50' Vertical Scale: 1" = 10'

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Missouri Certificate of Authority # 000556

PROJECT:

≡ ≡

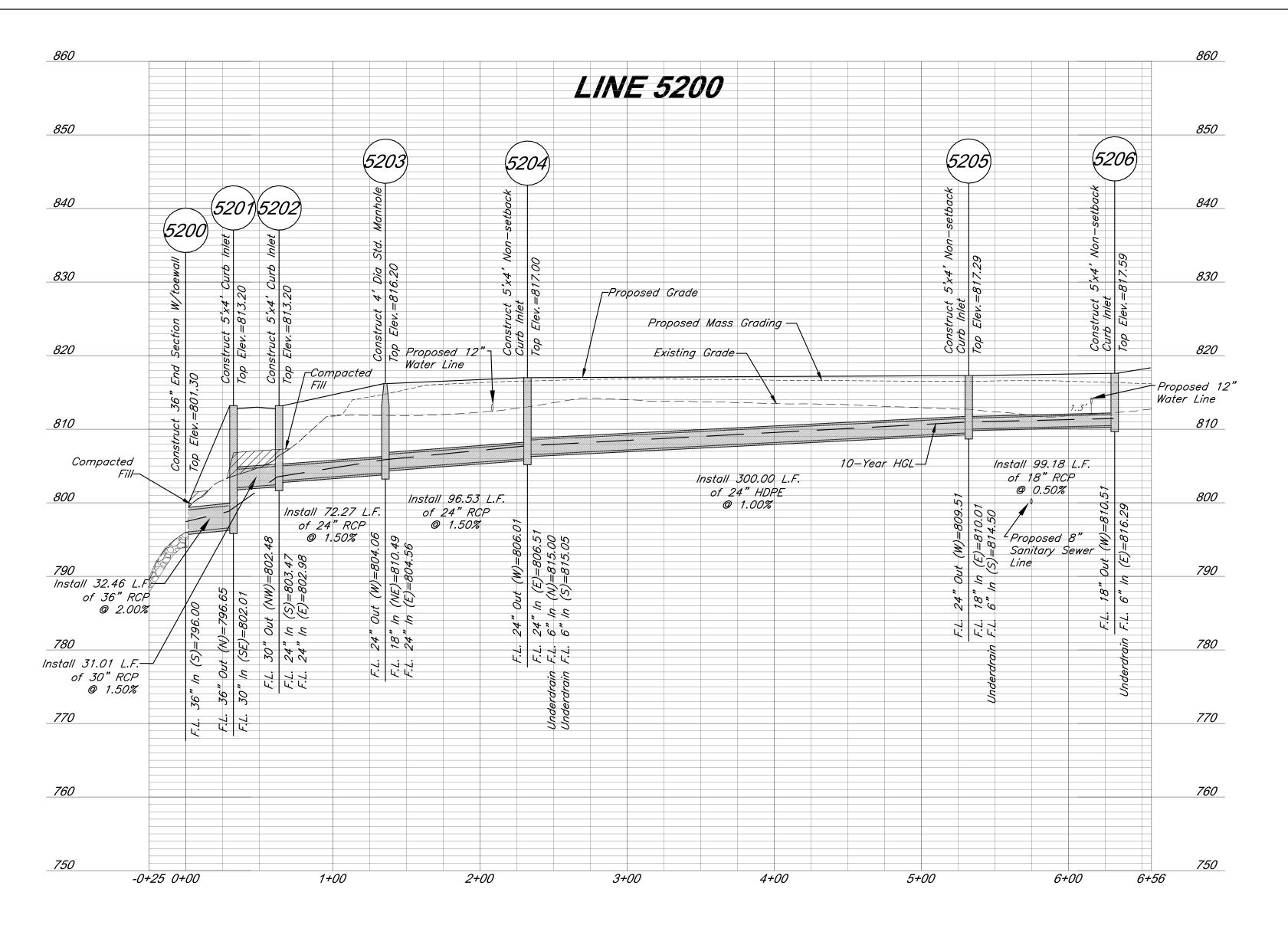
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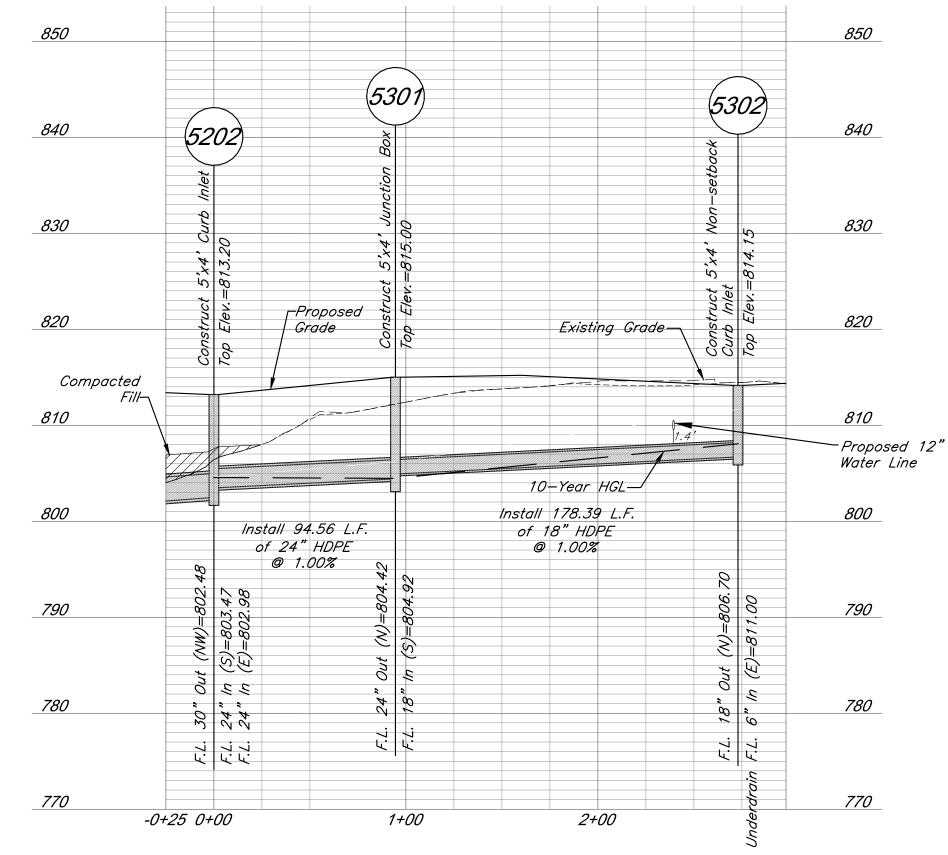
tar aragon 1401 NW



DRAWING TITLE:

Storm Sewer **Profiles**





<u>LEGEND</u>



Compacted Fill shall be placed to a minimum of 18 inches above the top of /// pipe prior to installation.

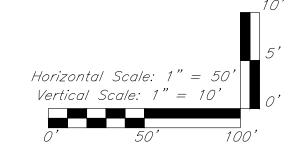
Riprap Calculations

D₅₀ = riprap size, m (ft) Q = design discharge, m³/s (ft³/s) D = culvert diameter (circular), m (ft)

TW = tailwater depth, m (ft) g = acceleration due to gravity, 9.81 m/s² (32.2 ft/s²)

5torm Line	Q	D	Tw	D' if 5uper	Min. D50	Min. D50	Design D50	Notes
	(CFS)	(FT)	(FT)	Critical Flow	(FT)	(IN)	(IN)	
5600	30.8	3	1.5	2.09	0.476	5.712	12	MODOT Type 3 Rock Ditch Liner
4500	22.5	2.5	1.25		0.296	3.551	12	MODOT Type 3 Rock Ditch Liner
4800	30.3	3	1.5	2.21	0.432	5.187	12	MODOT Type 3 Rock Ditch Liner
5200	31.5	3	1.5	2.10	0.487	5.848	12	MODOT Type 3 Rock Ditch Liner

Design flows using 100 year storm



'illag tar Paragon 1401 NW

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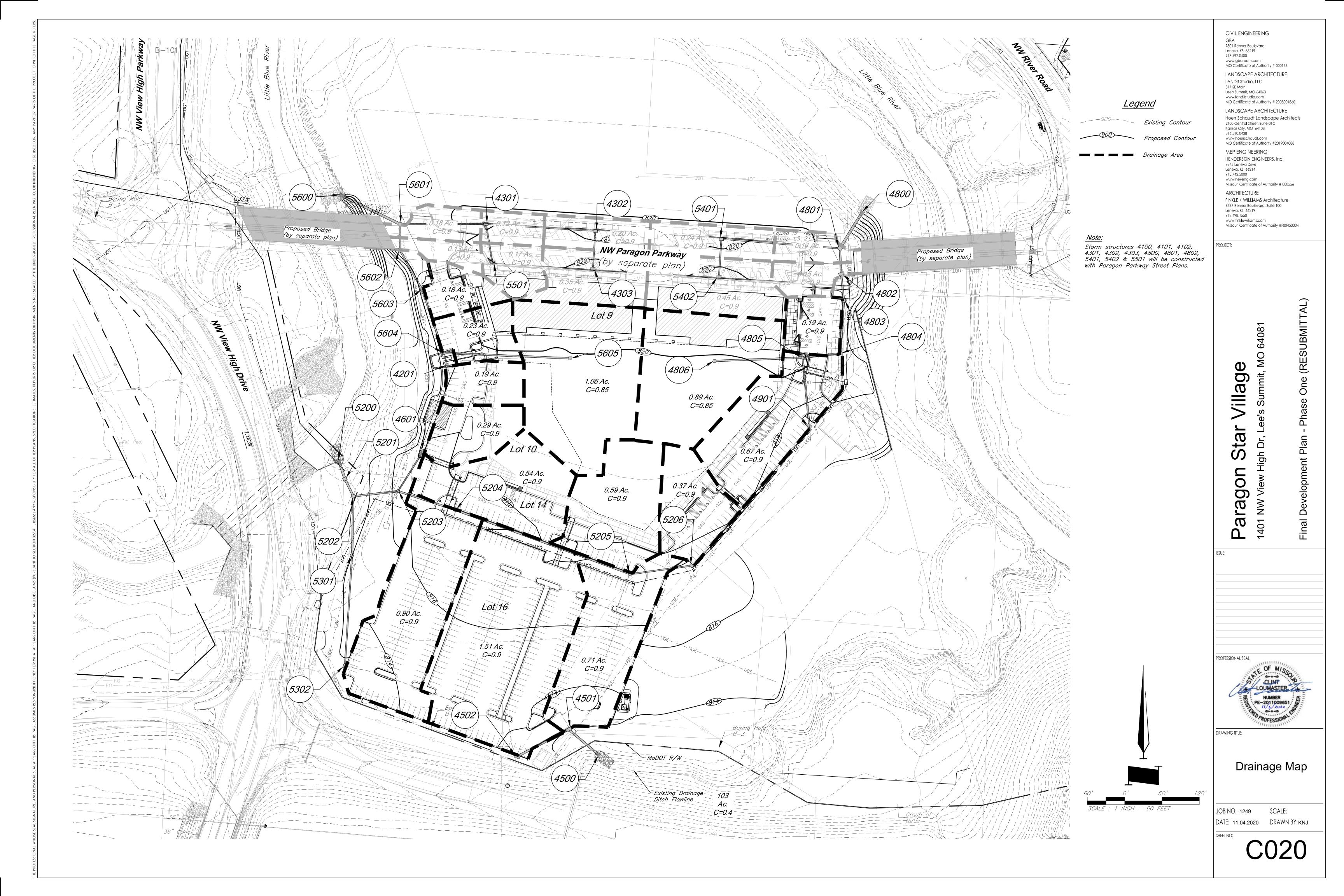
913.492.0400

rofessional seal:	
ROFESSIONAL SEAL: OF M/SSO	

Storm Sewer **Profiles**

JOB NO: 1249 SCALE: DATE: 11.04.2020 DRAWN BY: KNJ

DRAWING TITLE:



				10	Year Sto				signed to th	ne 100 year S	torm																				
	5	Structures	Direc	Line	Total	Runo	off Calcu	ulations	1					Pipe Design			î				1	7	1		Design Che	cks		Downstream	Hydraulic	Hydraulic	
	Fror	m To	Area	_	Area	C K	Tc	Flow Time	Intensity	Design Q	Description	n Pipe length	Pipe Slope	Pipe dia (in)	Manning's	Q full	Pipe	V full	Design V	Hw/D	outlet	HW, Inlet	HW, Outlet	Inlet Top	upstream	downstream	Invert	water	Grade Elev.	Grade	Comments
	-	-COE	(acre	(acre)	(acre)	0.05 4.00	(min	., ()	(in/hr)	(cfs)	Conta Inlat	(lin ft)	Slope, %		n Value	(cfs)	Area, sf	fps	fps		head, H	Control, (ft)	Control, (ft)	Elevation	flowline	flowline	Drop (ft)	elevation	(Calculated)	(allowable)	
		5605	1.06		1.06	0.85 1.00 0.85 1.00	100000000000000000000000000000000000000		7.35 7.35	6.6	Grate Inlet RCP	203.44	0.50	24	0.013	16.04	3.14	5.11	4.09	0.8	0.47	812.79	811.90	819.85	811.27	810.25		811.43	812.79	818.52	
	5	5604	5255560,5040	0.19		0.90 1.00			7.35	1.5	Curb Inlet			1500000		10						/		818.90			0.5		811.43	817.57	
Line		5603	0 18	*	1.48	0.86 1.00	EATT THE PROPERTY.	26141 1776 ed 261920 794	7.11 7.35	9.1	HDPE Curb Inlet	107.61	1.50	24	0.01	36.12	3.14	11.50	8.08	0.8	0.54	811.43	809.94	819.15	809.75	808.14	0.5	809.40	809.40	817.82	
5600		5003	5602		1.66		_		7.04	10.1	HDPE	71.85	1.50	24	0.01	36.12	3.14	11.50	8.31	0.9	0.51	809.40	808.40	019.13	807.64	806.56	0.5	807.88	809.40	017.02	
	5	5602	0.13		4.70	0.90 1.00			7.35	0.9	Curb Inlet	10.01	4.50	0.4	0.040	07.70	0.44	0.04	0.00	0.0	0.44	007.00	000.05	819.02	000.00	005.40	0.5	000.44	807.88	817.69	
	5	5601	0.18	0.84	1.79		0 6.19		7.00 7.35	10.9	RCP Curb Inlet	42.61	1.50	24	0.013	27.78	3.14	8.84	6.98	0.9	0.44	807.88	800.85	819.02	806.06	805.42	7.26	800.41	800.41	817.69	
			5600	0.01		0.88 1.00			6.97	17.3	RCP	108.17	2.00	36	0.013	94.58	7.07	13.38	8.64	0.7	0.27	800.41	797.77	0.0.02	798.16	796.00	7.20	797.50	333.11	511.00	ē.
Line	4	1201	0.19	ō.		0.90 1.00	0 5 00	0	7.35	13	Curb Inlet					1 1					Т	2)		818.90	T T	T			814.59	817.57	
4200		AND PROPERTY OF	1104						7.35	1.3	HDPE	21.02	1.00	15	0.01	8.42	1.23	6.86	4.24	0.7	0.04	814.59	814.16	0.10.00	813.71	813.50		814.13	0.1100		
	1	1303	0.35			0.90 1.00	0 5.00	2	7.35	2.3	Curb Inlet										-			820.30				1	814.82	818.97	
	- 4		1302		0.35		0 5.00		7.35	2.3	RCP	61.05	0.50	15	0.013	4.58	1.23	3.73	3.18	0.8	0.24	814.82	814.44	020.30	813.84	813.53		814.20	014.02	010.97	
Line	4	1302	0.20		0.55	0.90 1.00			7.35	1.3	Curb Inlet	170.11	0.75	10	2.212	0.40		5.40	4.00		0.50	044.00	040.44	820.30	040.00	011.71	0.5	240.50	814.20	818.97	
4300	4	1301	1301 0 12	0.17	0.55	0.90 1.00 0.90 1.00	0 5.32		7.26 7.35	0.8	RCP Curb Inlet	176.14	0.75	18	0.013	9.12	1.77	5.16	4.08	8.0	0.53	814.20	813.11	820.24	813.03	811.71	0.5	812.58	812.58	818.91	
		100000000000000000000000000000000000000	1101		0.84	0.90 1.00			7.05	5.3	RCP	138.15	1.00	18	0.013	10.53	1.77	5.96	5.07	0.9	0.95	812.58	811.53		811.21	809.83		810.58			
	А	1503	1.51		1	0.90 1.00	1 5 00	0	7.35	10.0	Curb Inlet										T			814.00		I			810.20	812.67	
Line		4	1501	6	1.51	0.90 1.00	5.00	0.28	7.35	10.0	HDPE	93.76	0.50	30	0.01	37.81	4.91	7.70	5.49	0.7	0.20	810.20	809.62		808.36	807.89		809.42			
4500	4	1501	0.71			0.90 1.00 0.90 1.00			7.35	4.7	Curb Inlet	64.59	0.50	20	0.01	37.81	4.01	7 70	6.04	0.0	0.34	900.40	808.66	813.64	907.20	807.07	0.5	909 22	809.42	812.31	
		4	1500		2.22	0.90 1.00	0 5.26	8 0.18	7.27	14.5	HDPE	64.59	0.50	30	0.01	37.61	4.91	7.70	6.04	8.0	0.34	809.42	808.00		807.39	807.07		808.32			
Line	4	1601	0.29			0.90 1.00			7.35	1.9	Curb Inlet													818.50					813.05	817.17	
4600		5	5203		0.29	0.90 1.00	5.00	0.25	7.35	1.9	RCP	75.62	2.00	18	0.013	14.90	1.77	8.43	4.97	0.7	0.08	813.05	811.32		812.00	810.49		811.24			
	4	1806	0.89			0.85 1.00	0 5.00	0	7.35	5.6	Grate Inlet							1						819.85					815.04	818.52	
			1805	0.07		0.85 1.00		_	7.35	5.6	HDPE	141.67	1.50	24	0.01	36.12	3.14	11.50	7.15	0.7	0.25	815.04	812.93	040.20	813.58	811.45	0.5	812.69	040.00	047.07	
	4	1805	1804	0.67		0.90 1.00 0.87 1.00			7.35 7.25	9.9	Curb Inlet RCP	61.28	1.50	24	0.013	27.78	3.14	8.84	6.78	0.9	0.44	812.69	811.81	819.30	810.95	810.04	0.5	811.37	812.69	817.97	
	4	1804	0.19			0.90 1.00	0 5.00	0	7.35	1.3	Curb Inlet	25.24	101	0.4	2.24						2.00	044.07	010.11	819.06	200 54	202.11	0.5	200.40	811.37	817.73	
Line 4800	4	1803	1803			0.87 1.00 0.90 1.00			7.21 7.35	11.0 0.0	HDPE Curb Inlet	85.31	1.64	24	0.01	37.76	3.14	12.02	8.77	0.9	0.68	811.37	810.14	819.32	809.54	808.14	0.5	809.46	809.46	817.99	
		4	1802		1.75	0.87 1.00	0 5.64	4 0.10	7.16	11.0	HDPE	42.44	1.00	24	0.01	29.49	3.14	9.39	7.29	0.9	0.45	809.46	809.07		807.64	807.21		808.62			
	4	1802	0.15		1.90	0.90 1.00 0.88 1.00	5.00	0 0 11	7.35 7.13	1.0	Curb Inlet	41.20	1.00	24	0.013	22.68	3.14	7.22	6.21	1.0	0.52	808.62	807.46	819.57	806.71	806.30	0.5	806.94	808.62	818.24	
	4	1801	0.14	0.69		0.90 1.00	0 5.00	0	7.35	0.9	Curb Inlet	71.20	1.00	24	0.013	22.00	J. 14	1.22	0.21	1.0	0.02	000.02		819.57	000.71	000.50	1.6	000.54	806.94	818.24	
		4	1800		2.73	0.88 1.00	5.85	5 0.17	7.10	17.1	RCP	70.01	1.00	36	0.013	66.88	7.07	9.46	6.69	0.7	0.21	806.94	805.71		804.70	804.00		805.50			
Line	4	1901	0.67			0.90 1.00	0 5.00	0	7.35	4.4	Curb Inlet							1			i			817.09					813.42	815.76	
4900		4	1803		0.67	0.90 1.00	5.00	0.50	7.35	4.4	RCP	110.41	0.50	24	0.013	16.04	3.14	5.11	3.68	0.7	0.13	813.42	812.58		812.00	811.45		812.45			
	5	5206	0.37			0.90 1.00	5.00	0	7.35	24	Curb Inlet													817.59					811.59	816.26	
		5	5205		0.37	0.90 1.00	0 5.00	0.52	7.35	2.4	RCP	99.18	0.50	18	0.013	7.45	1.77	4.21	3.17	0.7	0.15	811.59	811.17		810.51	810.01	00000	811.01		010000000000000000000000000000000000000	
	5	5205	0.59			0.90 1.00 0.90 1.00			7.35 7.20	3.9 6.2	Curb Inlet HDPE	300.00	1.00	24	0.01	20.40	3 1/	9.39	6.28	0.7	0.57	811.01	808.28	817.29	809.51	806.51	0.5	807.71	811.01	815.96	
an agentiem.	5	5204	0.54			0.90 1.00	0 5.00	0	7.35	3.6	Curb Inlet		1.00	24						0.1	0.01			817.00			0.5	001.11	807.71	815.67	
Line			5203	0.00		0.90 1.00			6.97	9.4	RCP	96.53	1.50	24	0.013	27.78	3.14	8.84	6.70	0.8	0.54	807.71	805.16	046.00	806.01	804.57	0.5	804.62	90E 04	014.07	
5200	5	5203	5202	0.29		0.90 1.00 0.90 1.00			7.35 6.90	0.0 11.1	Manhole RCP	72.80	1.50	24	0.013	27.78	3.14	8.84	7.02	0.9	0.62	805.91	799.52	816.20	804.07	802.97	0.5	798.90	805.91	814.87	
	5	5202		0.90		0.90 1.00	5.00	0	7.35	0.3	Curb Inlet		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		20,000000000000000000000000000000000000									813.20			0.5		804.62	811.87	
		5201	0.06			0.90 1.00 0.90 1.00			6.85 7.35	16.9	RCP Curb Inlet	31.01	1.50	30	0.013	50.37	4.91	10.26	7.75	0.9	0.34	804.62	799.23	813.20	802.47	802.01	5.36	798.90	798.90	811.87	
			5200			0.90 1.00			6.84	17.2	RCP	32.46	2.00	36	0.013	94.58	7.07	13.38	8.63	0.7	0.16	798.90	797.66	010.20	796.65	796.00	0.00	797.50	700.00	511.07	
		5202	0.00			0.00 4.00	0 500	2	7.05	6.0	Curb Int-4													044.00					000 40	942.67	
Line	5	5302	0.90			0.90 1.00 0.90 1.00			7.35 7.35	6.0	Curb Inlet HDPE	178.39	1.00	18	0.01	13.69	1.77	7.75	6.30	1.0	1.48	808.16	807.37	814.00	806.70	804.92		805.89	808.16	812.67	
5300	5	5301	0.00			0.90 1.00	0 5.00	0	7.35	0.0	Curb Inlet													815.00			0.5		805.89	813.67	
		5	5202		0.90	0.90 1.00	0 5.47	7 0.26	7.21	5.8	HDPE	94.56	1.00	24	0.01	29.49	3.14	9.39	6.18	0.7	0.20	805.89	804.67		804.42	803.47		804.47			
20-7-1	5	5402	0.45			0.90 1.00			7.35	3.0	Curb Inlet													820.30					814.45	818.97	
Line		5	5401		0.45	0.90 1.00	0 5.00	0.30	7.35	3.0	RCP	61.05	0.50	18	0.013	7.45	1.77	4.21	3.35	0.7	0.16	814.45	813.95		813.33	813.03		813.79			
5400	5	5401	0.24 1801			0.90 1.00 0.90 1.00			7.35 7.26	1.6 4.5	Curb Inlet RCP	191.09	1.50	18	0.013	12.90	1.77	7.30	5.57	0.8	0.90	813.79	811.31	820.30	812.53	809.66	0.5	810.41	813.79	818.97	
									10000000	0.5-73	1.01		0.000				V shiritin	Name and the second										5.5.11			
Line	5	5501	0.17		0.17	0.90 1.00	5.00	0 0.25	7.35	1.1	Curb Inlet	62.67	2.00	10	0.013	14 00	1 77	8 //3	1 13	0.7	0.02	813 09	812.49	820.40	812.06	811 71		812.46	813.98	819.07	
3300	l	4	1001		0.17	0.00 1.00	0 0.00	0.20	1.55	1.1	INOF	02.07	2.00	10	0.013	14.50	1.11	0.40	1 . IJ	0.1	0.02	013.30	012.40	I.	012.30	011.71		012.40			

CIVIL ENGINEERING

9801 Renner Boulevard Lenexa, KS 66219 913.492.0400

www.gbateam.com MO Certificate of Authority # 000133 LANDSCAPE ARCHITECTURE LAND3 Studio, LLC

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MEP ENGINEERING HENDERSON ENGINEERS, Inc. 8345 Lenexa Drive Lenexa, KS 66214 913.742.5000

www.hei-eng.com Missouri Certificate of Authority # 000556 ARCHITECTURE FINKLE + WILLIAMS Architecture 8787 Renner Boulevard, Suite 100

Lenexa, KS 66219
913.498.1550
www.finklewilliams.com
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PROJECT:

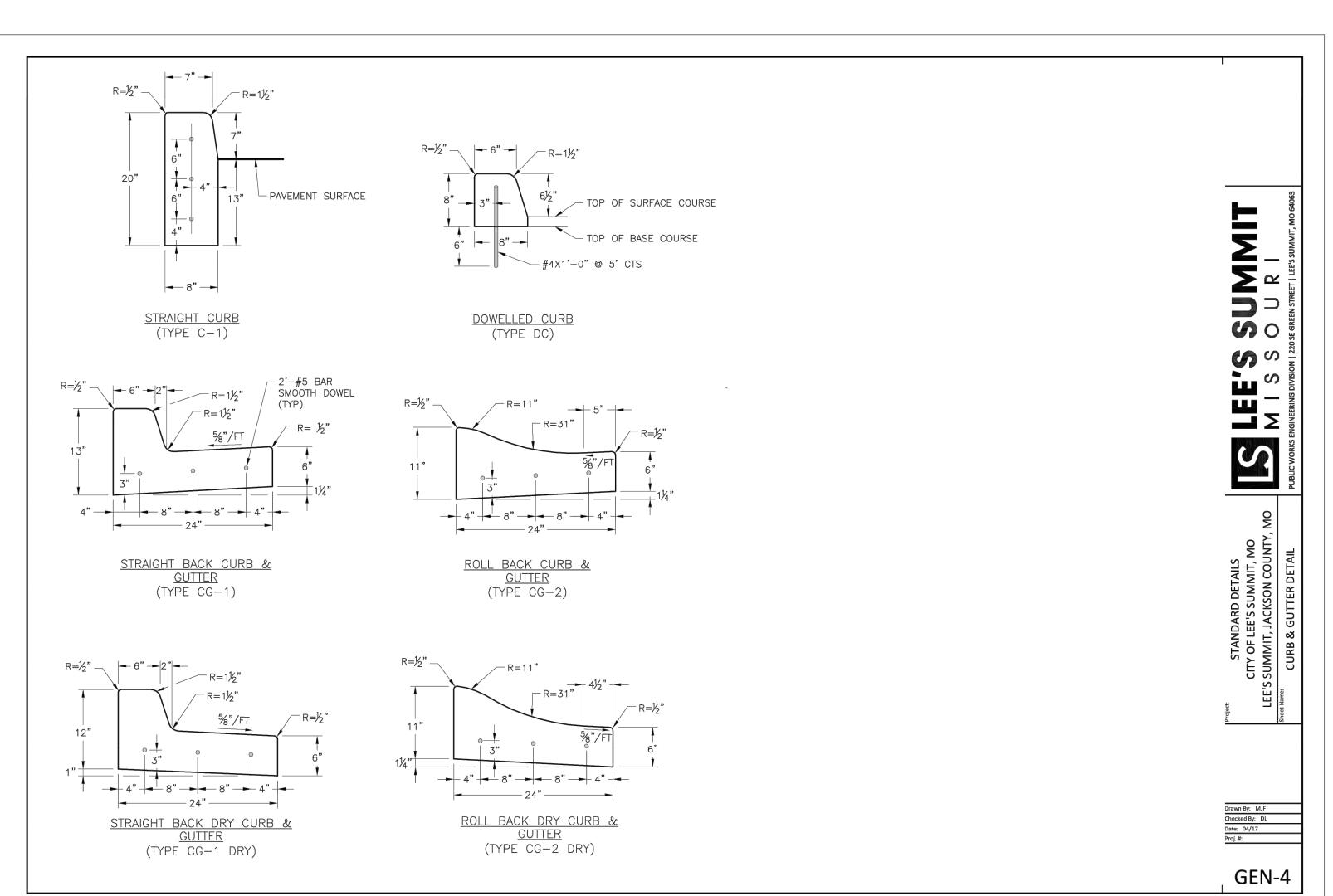
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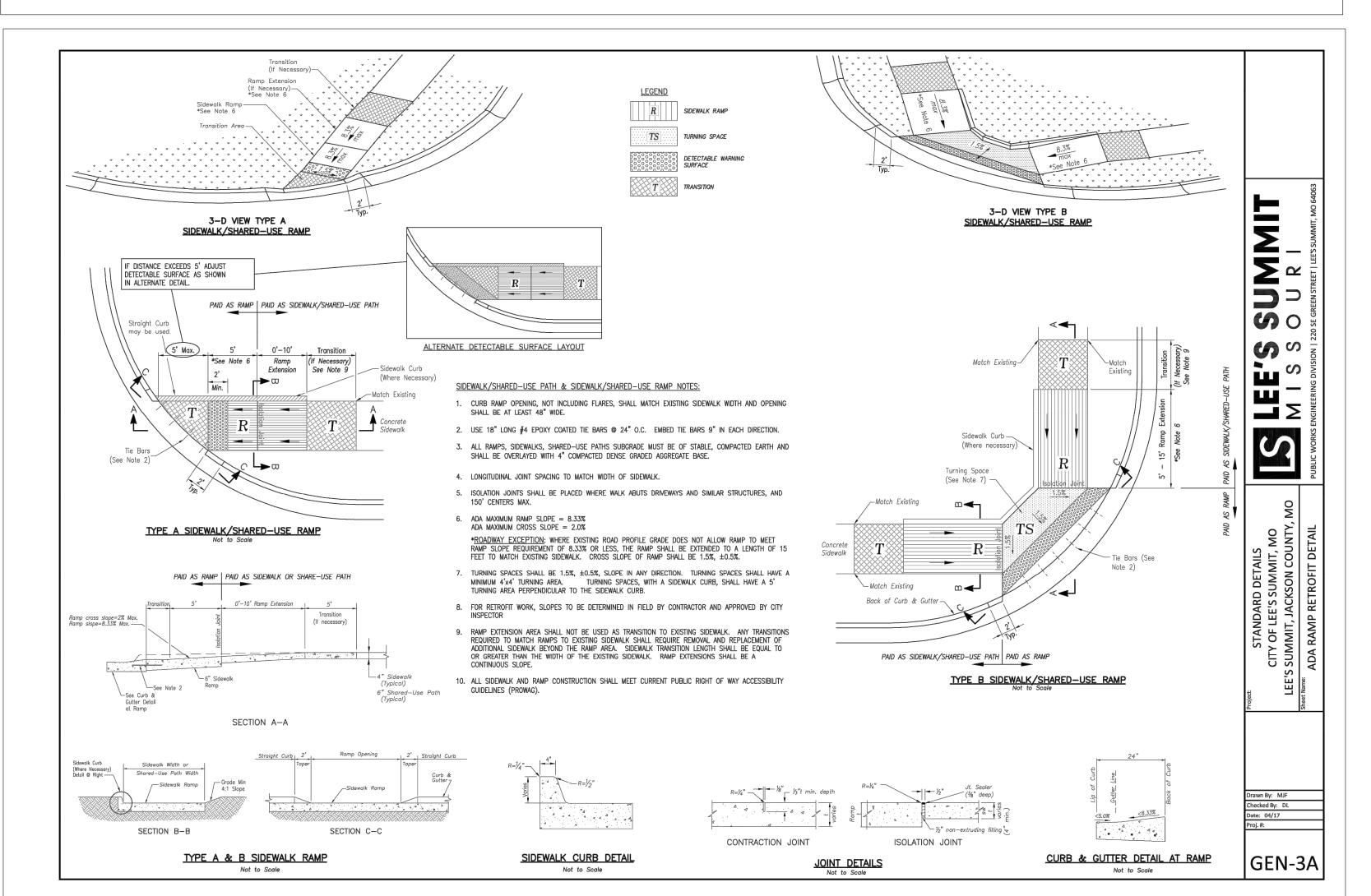
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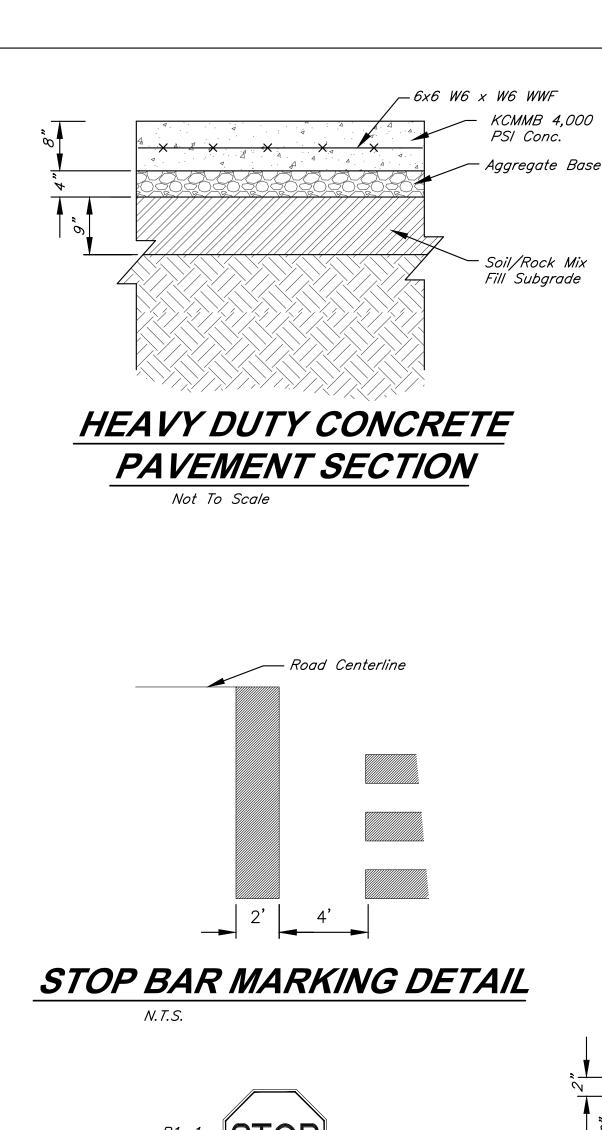
/illage Summit, Star

Paragon 1401 NW View Hi

Drainage Calculations

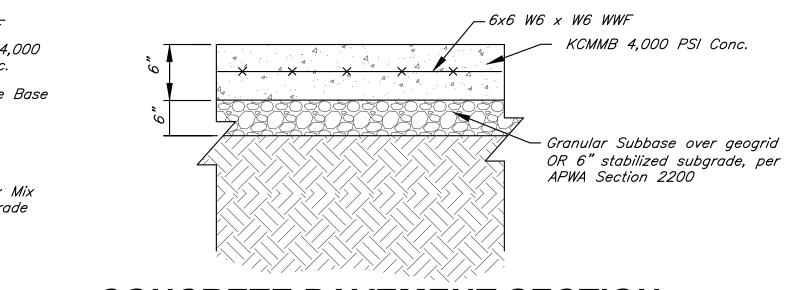




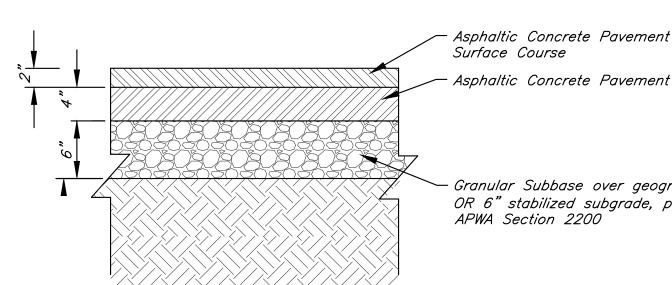


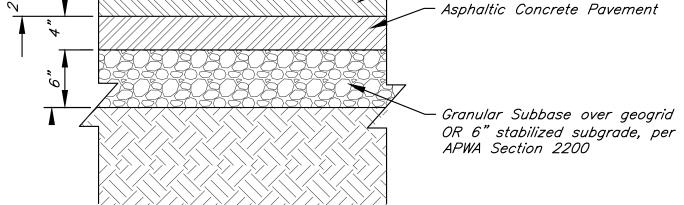
24"x24"

Not to Scale



CONCRETE PAVEMENT SECTION

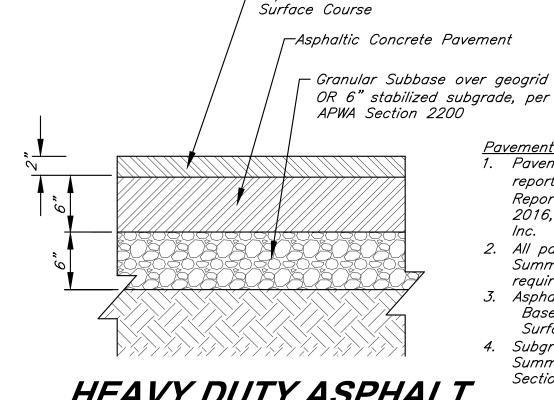




LIGHT DUTY ASPHALT PAVEMENT SECTION

-Asphaltic Concrete Pavement

Not To Scale



Pavement Notes: 1. Pavement sections from geotechnical report title "Geotechnical Engineering Report - Soccer Fields", dated July 27, 2016, prepared by Terracon Consultants,

2. All pavement shall meet City of Lee's Summit UDO Section 8.620

3. Asphalt mix shall be APWA Base: 1-01, 2-01 or 5-01 Surface: 2-01, 3-01 or 5-01

4. Subgrade stabilization shall be per Lee's Summit Standard Specifications — APWA Section 2200.

HEAVY DUTY ASPHALT PAVEMENT SECTION Not To Scale

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www.hei-eng.com Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture

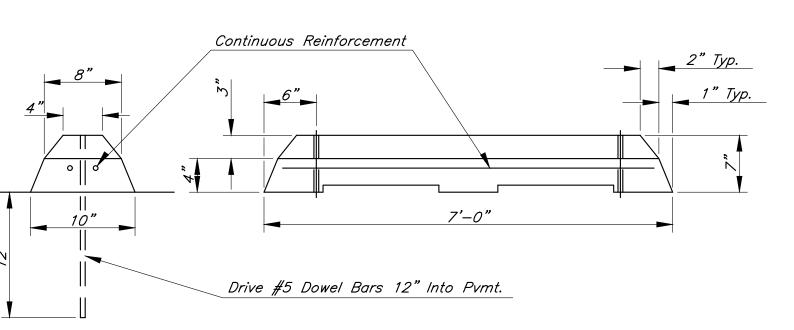
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8787 Renner Boulevard, Suite 100

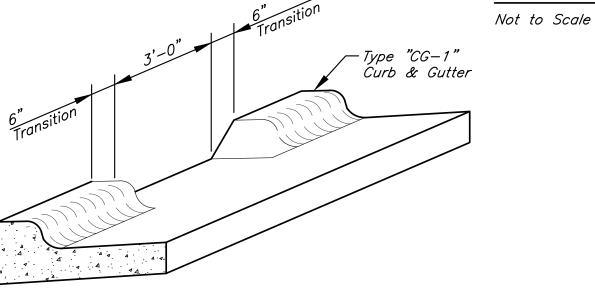
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Lenexa, KS 66219

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PRECAST CONCRETE STOP BLOCK

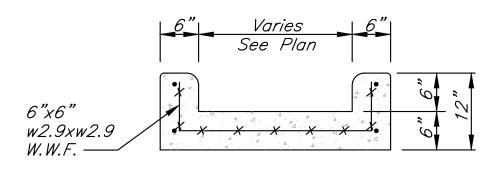


— Break Away Sign Post

— FINISHED

GRADE

STOP SIGN DETAIL



Section

TYPICAL CURB CUT DETAIL Not To Scale

CONCRETE FLUME Not To Scale

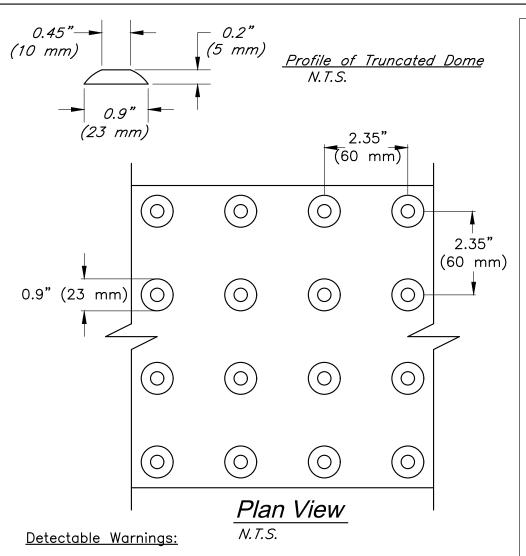
PROFESSIONAL SEAL:

PE-2011009651

Construction **Details**

JOB NO: 1249 DATE: 11.04.2020 DRAWN BY: KNJ

DRAWING TITLE:



- Curb ramps shall have detectable warnings extending the full length and width of the curb ramp.
- 2. Detectable warnings shall consist of raised truncated domes with a diameter of nominal 0.9 in (23 mm), a height of nominal 0.2 in (5 mm) and a center—to—center spacing of nominal 2.35 in (60 mm) and shall contrast visually with adjoining surfaces, either light—on—dark, or dark—on—light.

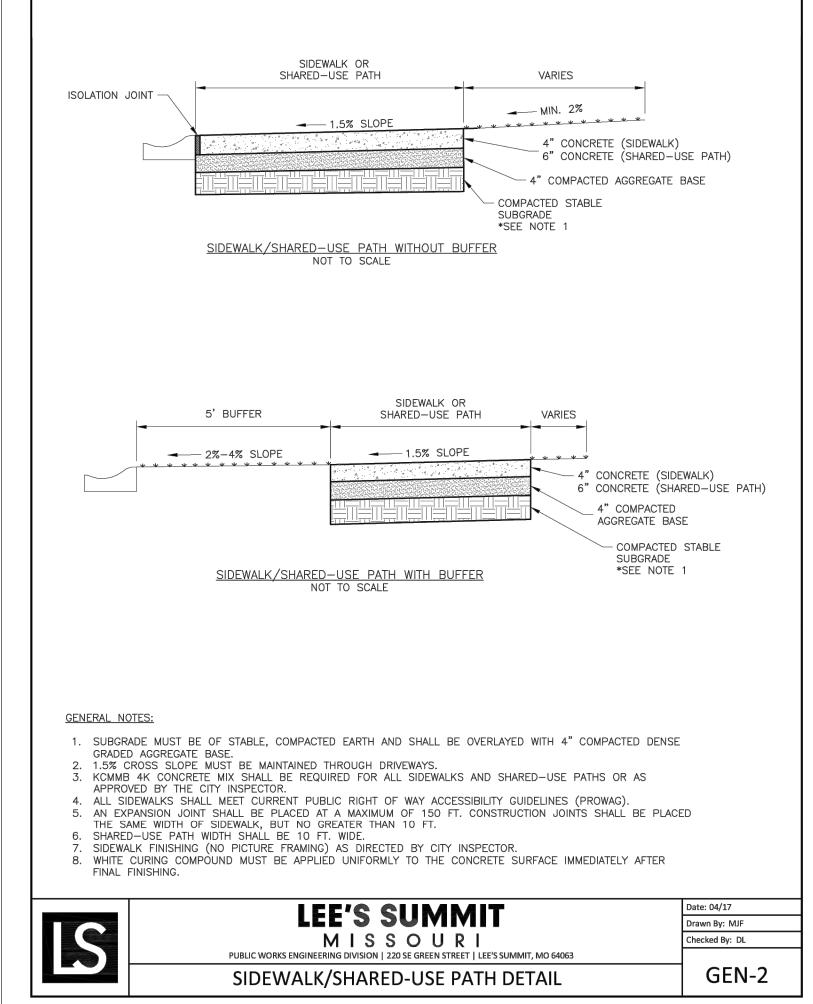
The material used to provide contrast shall be an integral part of the walking surface and should contrast by at least 70%. Contrast in percent is determined by:

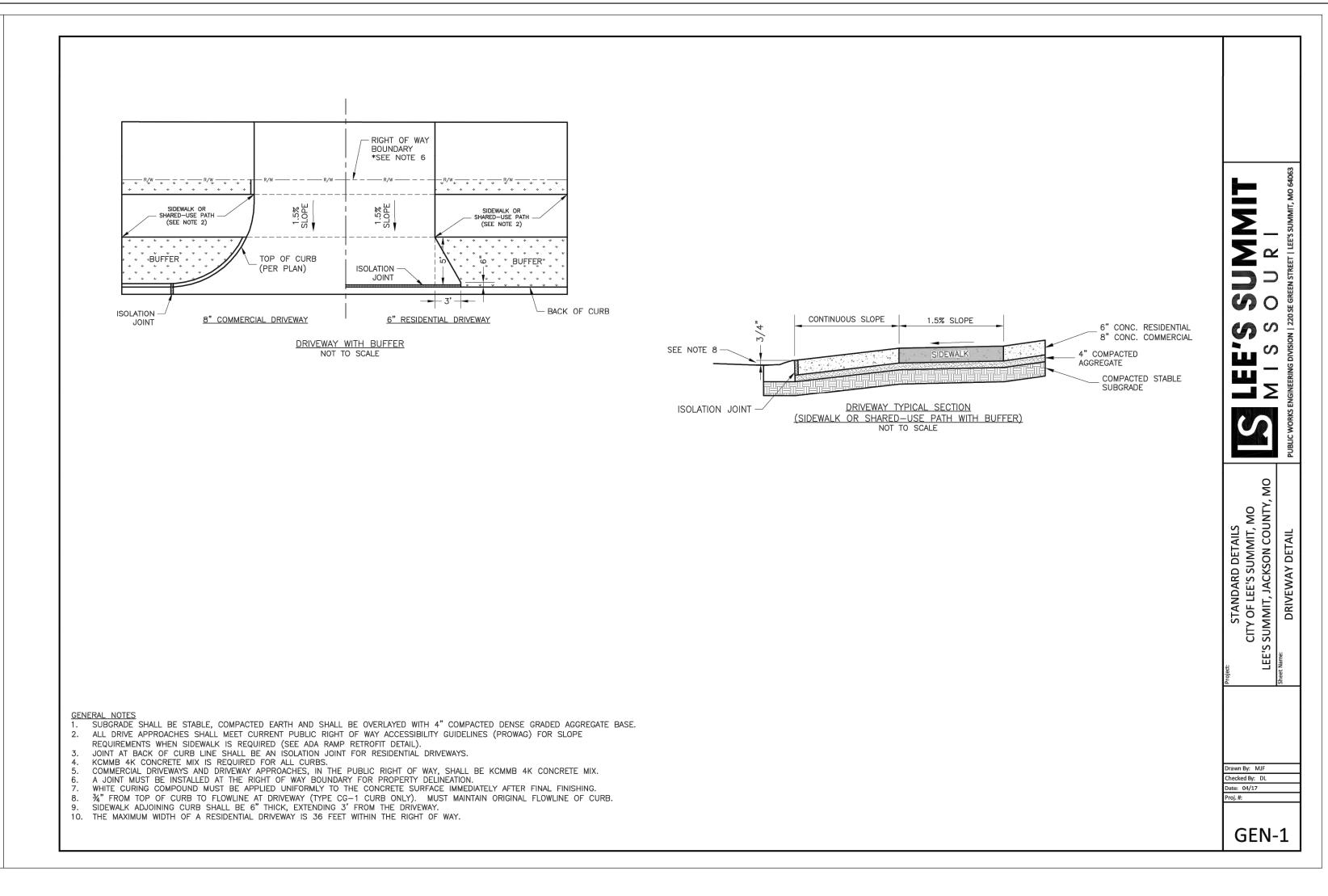
Contrast = $[(B1 - B2)/B1] \times 100$

where B1 = light reflectance value (LRV) of the lighter area and B2 = light reflectance value (LRV) of the darker area.

Note that in any application both white and black are never absolute; thus, B1 never equals 100 and B2 is always greater than 0.

- If a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings, or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning which is 36 in (915 mm)
- 4. Contractor shall install Detectable Warnings in compliance with current ADA standards.

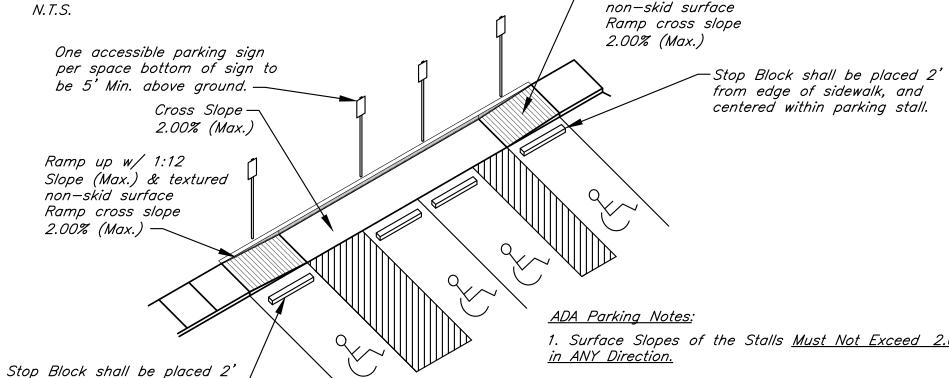




DETECTABLE WARNINGS One accessible parking sign per space bottom of sign to

from edge of sidewalk, and

centered within parking stall.



1. Surface Slopes of the Stalls <u>Must Not Exceed 2.00%</u>

2. Van Accessible Spaces are denoted on the plan.

3. Parking Blocks shall be placed 24" from edge of sidewalk to center line of parking block.

RESERVED PARKING **→** Sign R7–8 VAN accessible **←** Sign R7-8a — FINISHED GRADE

ADA PARKING DETAIL

Not to Scale



ACCESSIBLE PARKING SYMBOL DETAIL Not to Scale

ADA Sign Notes:

- Ramp up w/ 1:12

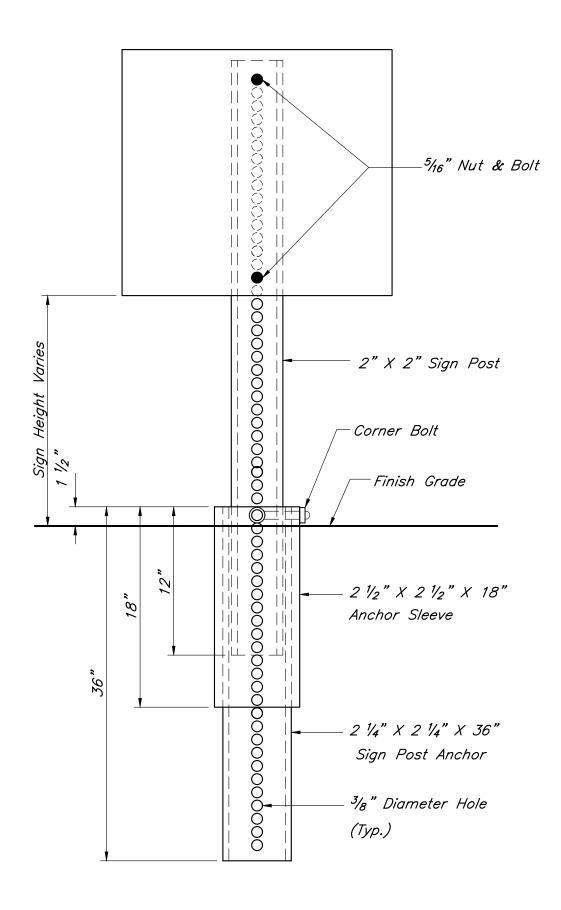
Slope (Max.) & textured

1. Accessible Sign (R7-8) Shall be mounted on a pole or other structure 5'-6" above the parking surface, at the head of the parking space, and shall be at least 12"x18" in area.

2. Supplemental Accessible Sign (R7-8a) shall be used on all required Van Accessible Spaces.

3. Signs shall be blue with white

TYPICAL ACCESSIBLE SIGNAGE Not to Scale



Pavement Installation Sequence

- 1. Sign post anchor driven into subgrade prior to the placement of the pavement.
- 2. Anchor sleeve driven into subgrade over the sign post anchor prior to the placement of the pavement.
- 3. Insert sign post into the sign post anchor and bolt in place.

Ground Installation Sequence

- 1. Sign post anchor driven into the ground.
- 2. Anchor sleeve driven into the ground over the sign post anchor.
- 3. Insert sign post into the sign post anchor and bolt in place.

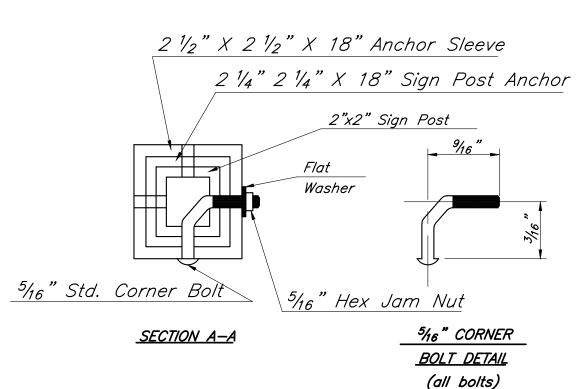
In all installations the first hole above the finished grade level in all three units must be in line for insertion of the corner bolt.

All corner bolts and nuts for fastening the signs and sign post assembly shall comply the applicable ANSI standards and ASTM testing requirements and shall be subidiary items.

All Components shall be galvanized.

Sign Notes:

- 1. All letter, number & symbol sizes, spacing & colors, and the sign colors shall conform to the current "Manual On Uniform Traffic Control Devices."
- 2. Sign blank material shall be as follows: Signs 36"X36" or greater 0.100" thick 0.125" thick Guide Signs 0.080" thick All other signs
- 3. All sign mounting hardware shall be galvanized.
- 4. All sign faces shall be fabricated using ASTM Type III Prismatic reflective sheeting.



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Missouri Certificate of Authority # 000556

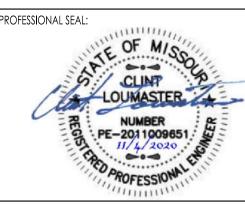
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HENDERSON ENGINEERS, Inc.



DRAWING TITLE:

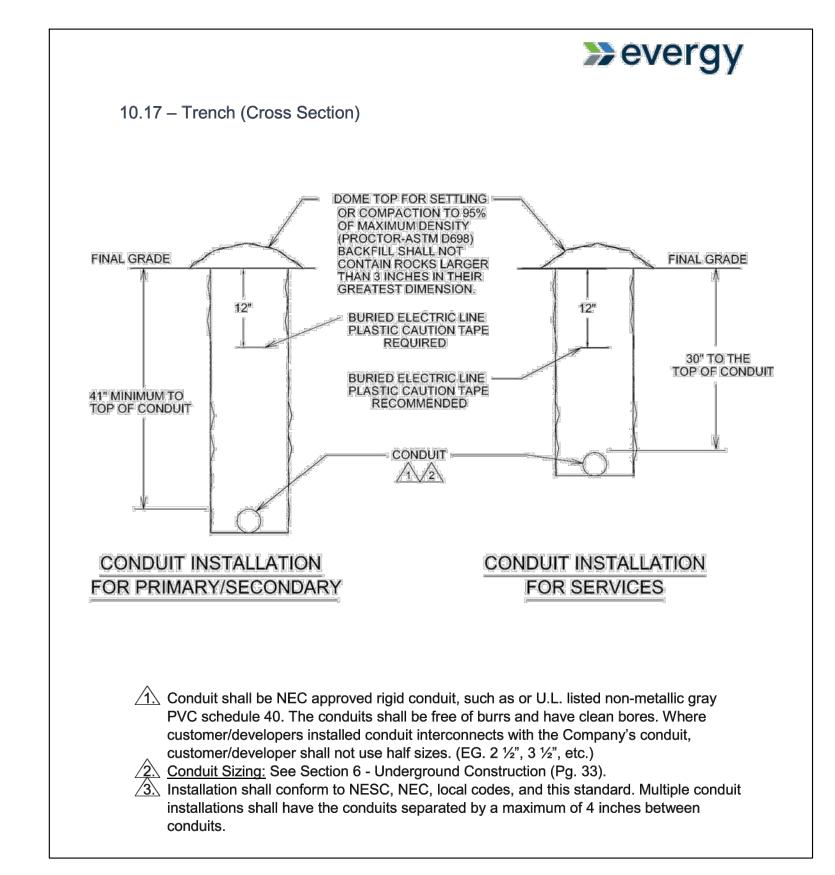
Construction Details

JOB NO: 1249 SCALE: DATE: 11.04.2020 DRAWN BY:KNJ

SHEET NO:

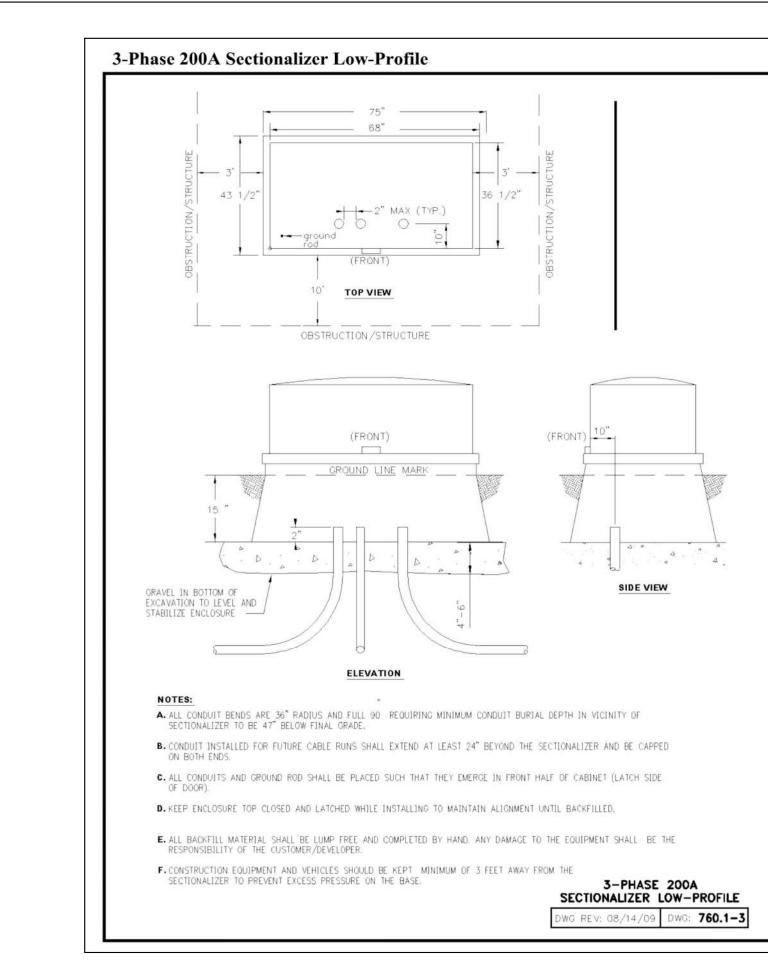
BREAK-AWAY SIGN POST DETAIL

Not to Scale



EVERGY TRENCH DETAIL

Not to Scale



SECTIONALIZER DETAIL

Not to Scale

Paragon Star Village

9801 Renner Boulevard Lenexa, KS 66219 913.492.0400

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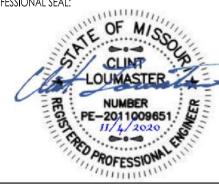
Missouri Certificate of Authority #F00453304

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HENDERSON ENGINEERS, Inc.

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ISSUE:			

PROFESSIONAL SEAL:



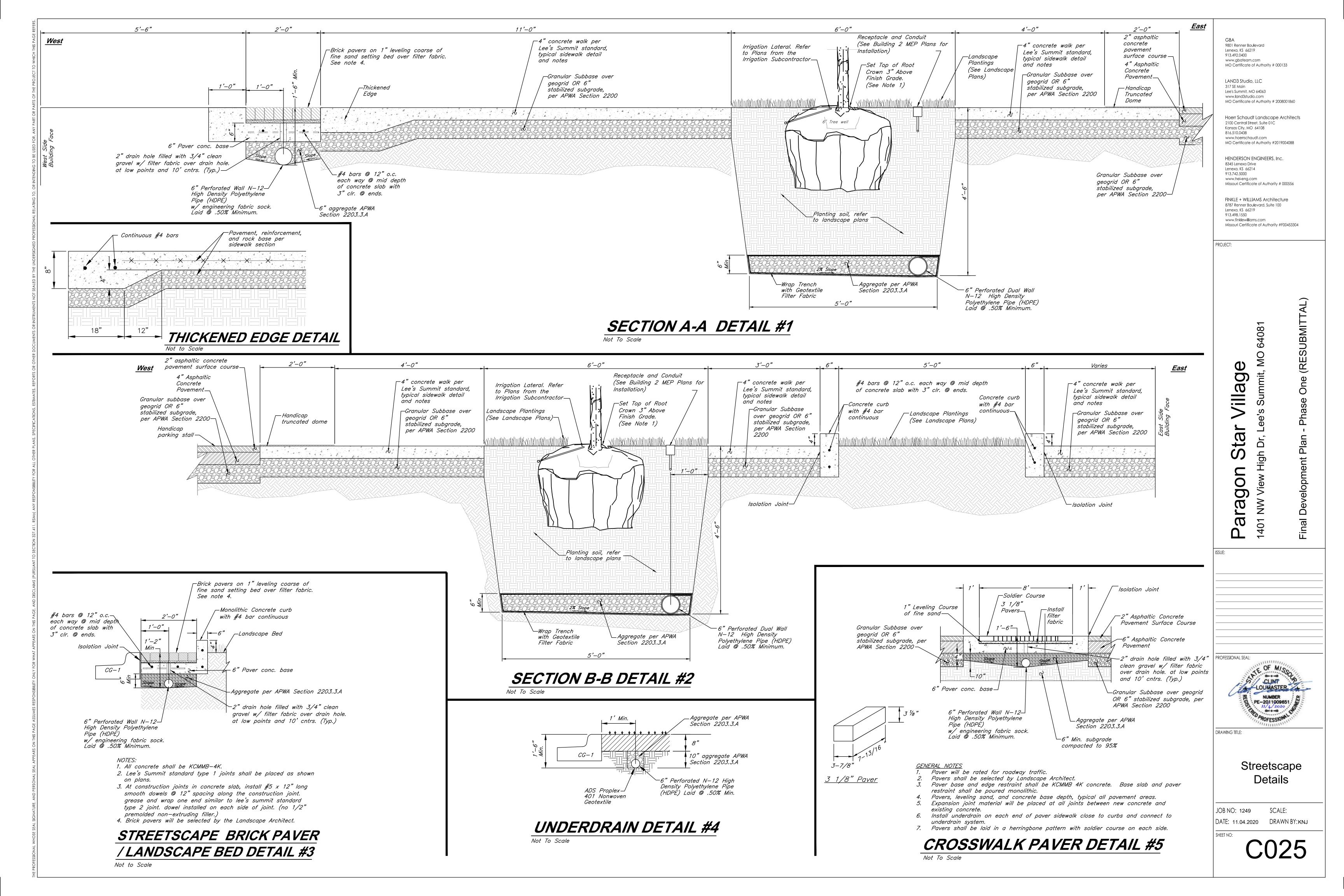
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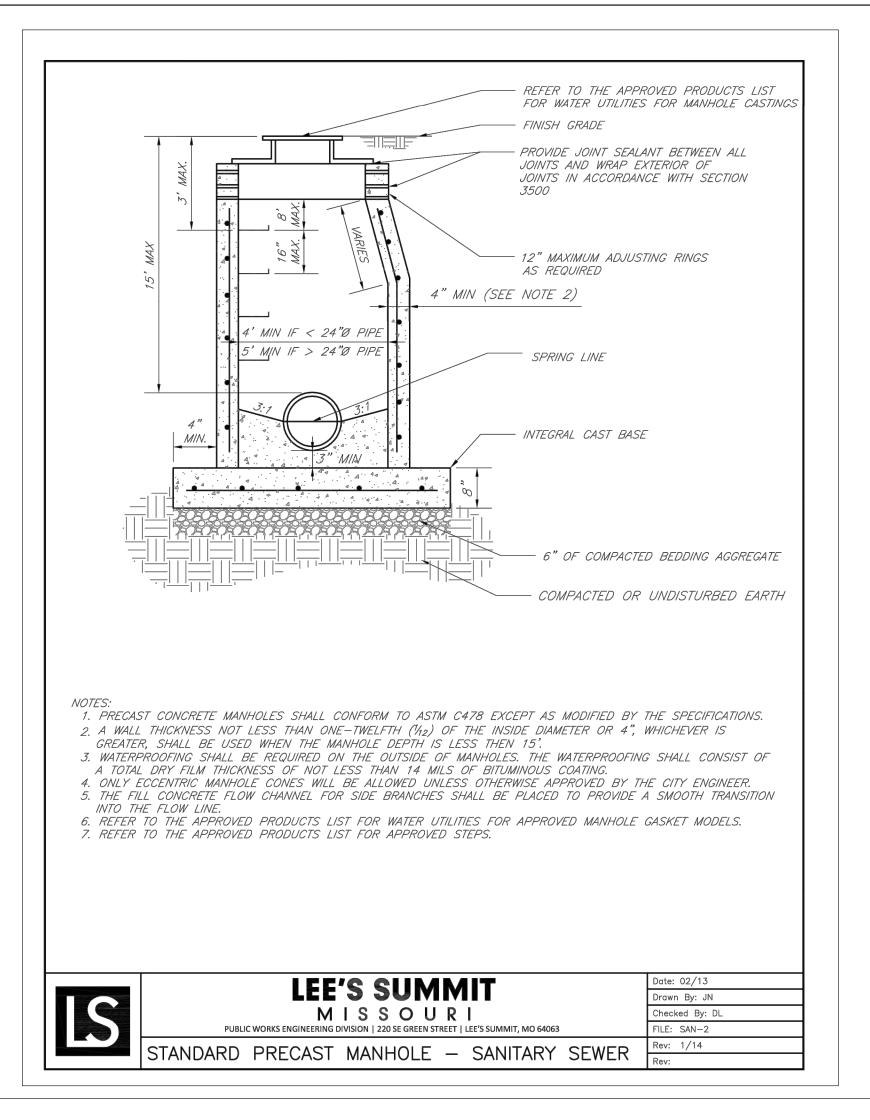
Utility Details

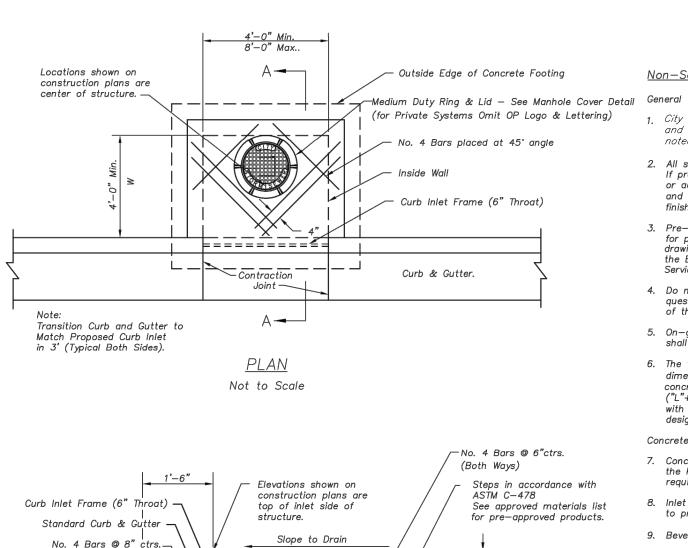
JOB NO: 1249 SCALE:
DATE: 11.04.2020 DRAWN BY:KNJ

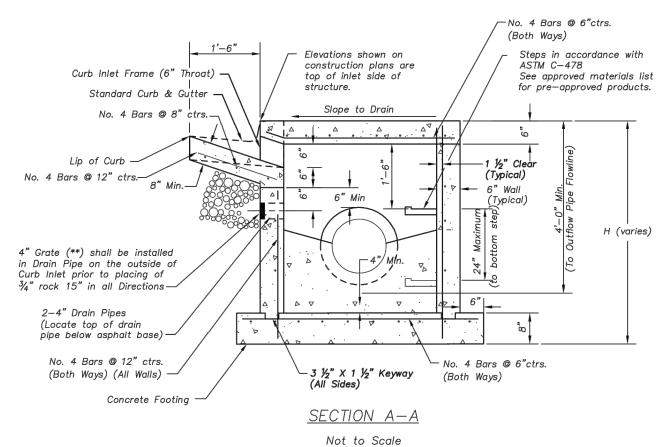
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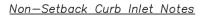








NON-SETBACK CURB INLET (6"THROAT)



- 1. City of Lee's Summit Municipal Code, Design Standards, and Specifications are incorporated except as otherwise
- 2. All storm sewer structures shall be pre-cast or poured in place. If pre-cast structures are used for publicly financed, maintained or administered construction, the tops shall be poured in place and the wall steel shall be left exposed to a height 2" below the finish top elevation, or as directed by the City Engineer.
- 3. Pre—cast shop drawings are to be approved by the City Engineer for publicly financed or administered projects. Pre—cast shop drawings for privately financed projects are to be submitted to the Engineering Services Division of the Planning and Development Services Department upon request.
- 4. Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the City Engineer prior to construction. 5. On-grade inlets shall conform to the street grade. Sump inlets
- 6. The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension. The Fabricated Bend concrete thickness and reinforcement shown is for boxes with (Typ. both sides) ("L"+"H") and ("W"+"H") less than or equal to 20. For boxes with either of these calculations greater than 20, a special design is required.

shall be level.

- 7. Concrete used in this work shall be KCMMB4K, as approved by the Kansas City Metropolitan Materials Board, and shall meet the
- 8. Inlet floors shall be shaped with non-reinforced concrete inverts to provide smooth flow.
- 9. Bevel all exposed edges with $\frac{3}{4}$ " triangular molding.
- Reinforcing Steel
- Reinforcing steel shall be new billet, minimum Grade 60 as per ASTM A615, and shall be bent cold. 11. All dimensions relative to reinforcing steel are to centerline of
- noted otherwise. Tolerance of $+/-\frac{1}{8}$ shall be permitted. 12. All lap splices not shown shall be a minimum of 40 bar

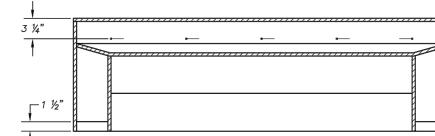
bars. 2" clearance shall be provided throughout unless

- 13. All reinforcing steel shall be supported on fabricated steel bar 6" Poured in Place supports @ 3'-0" maximum spacing.
- 14. All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sticking of dowels

sidewall concrete. All sidewall forms shall remain in place a minimum of 24 hours after sidewalls are poured before removal,

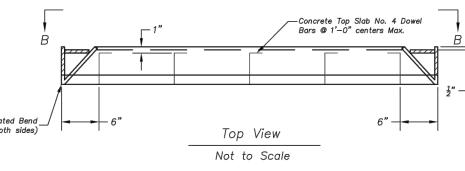
- into fresh or partially hardened concrete will not be acceptable. 15. The bottom slab shall be at least 24 hours old before placing
- and after removal shall be immediately treated with membrane curing compound. 16. All curb inlet tops are to be contructed after final curb string
- line has been approved by the engineer and prior to curb construction or as directed by the city engineer. 17. Pipe connections to pre-cast structures shall have a minimum
- of 6" of concrete around the entire pipe within 2' of the 18. Material selection and compaction requirements for backfill around structures shall be as specified in the Manual of Infrastructure Standards for Right of Way Restoration, as

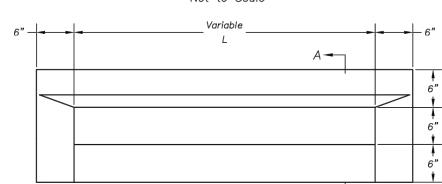
promulgated by the City Engineer.



Rear View (Section B-B)

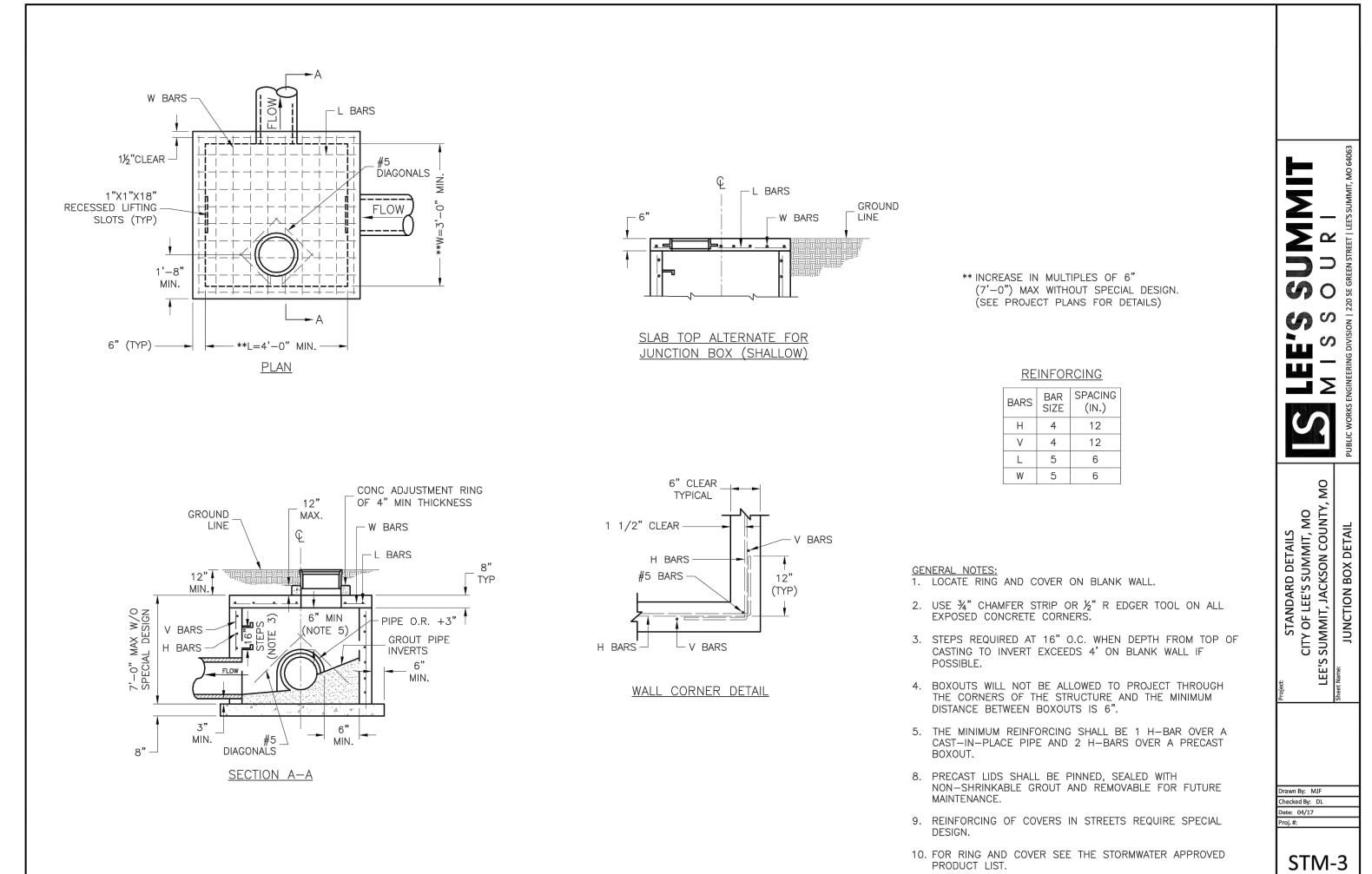
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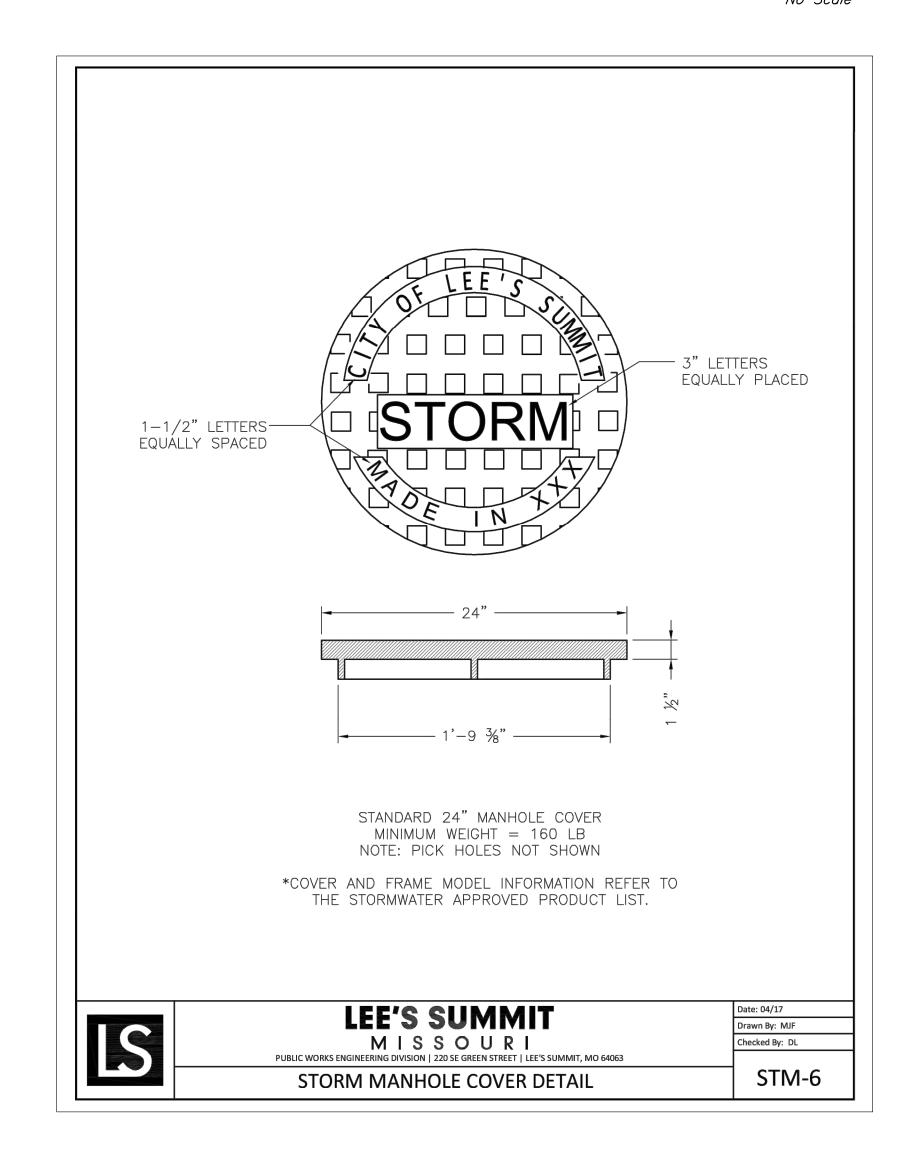


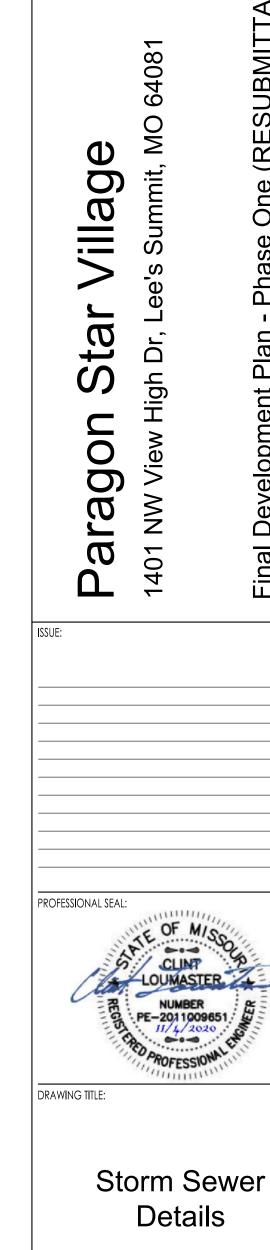


 $A \longrightarrow$ Front View Not to Scale __No. 4 Bar (Typ.) <u>Curb Inlet Frame Notes</u> 1. All welds shall be performed in accordance with appropriate AWS Specifications and Procedures. 2. All welds on exposed surfaces shall be dressed so as to provide a pleasing finished appearance. All flat steel shall be 7 Gage or ³/₆" thick. 4. The entire frame shall be hot dip zinc coated in accordance with ASTM A-123. Side View (Section A-A)

> **NON-SETBACK CURB INLET DETAIL**







SCALE:

DATE: 11.04.2020 DRAWN BY: KNJ

JOB NO: 1249

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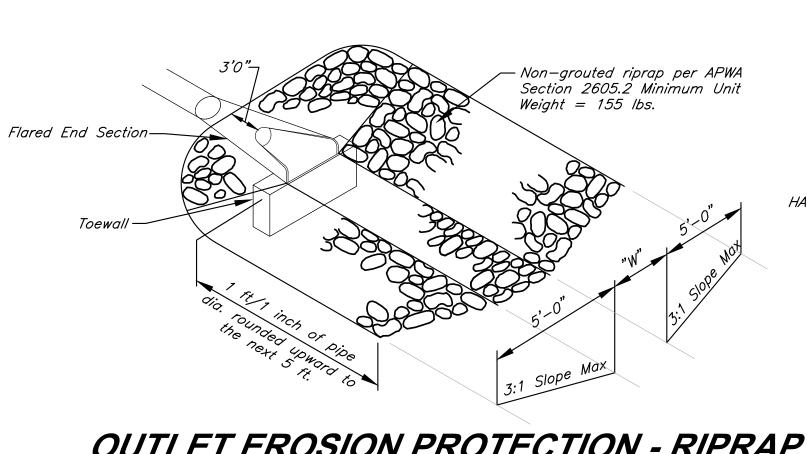
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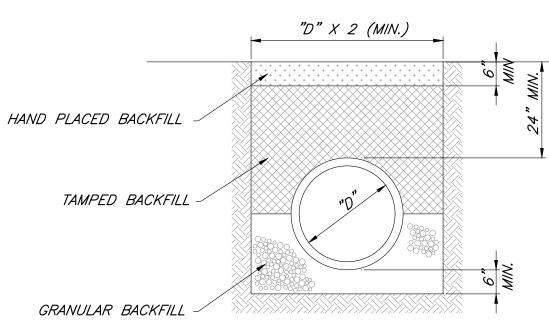
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317 SE Main





PIPE BEDDING DETAILS

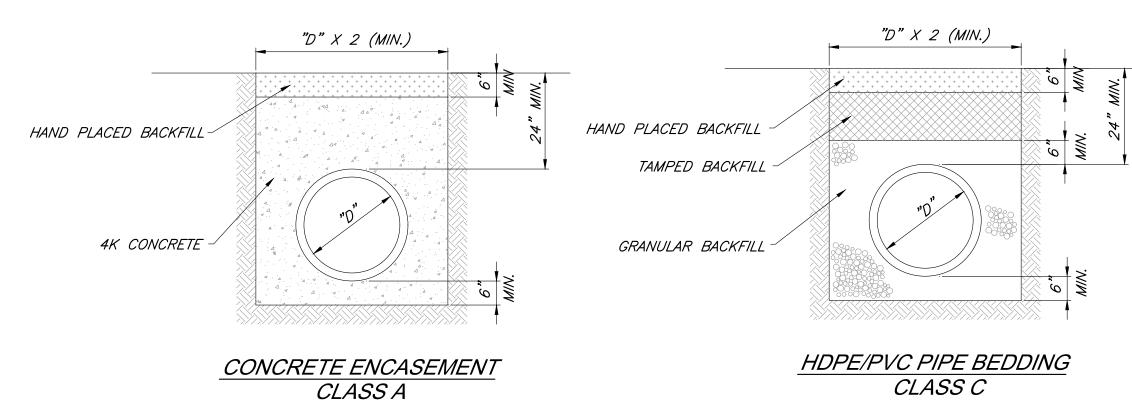
No Scale

FIRST CLASS BEDDING (RCP)

CLASS B

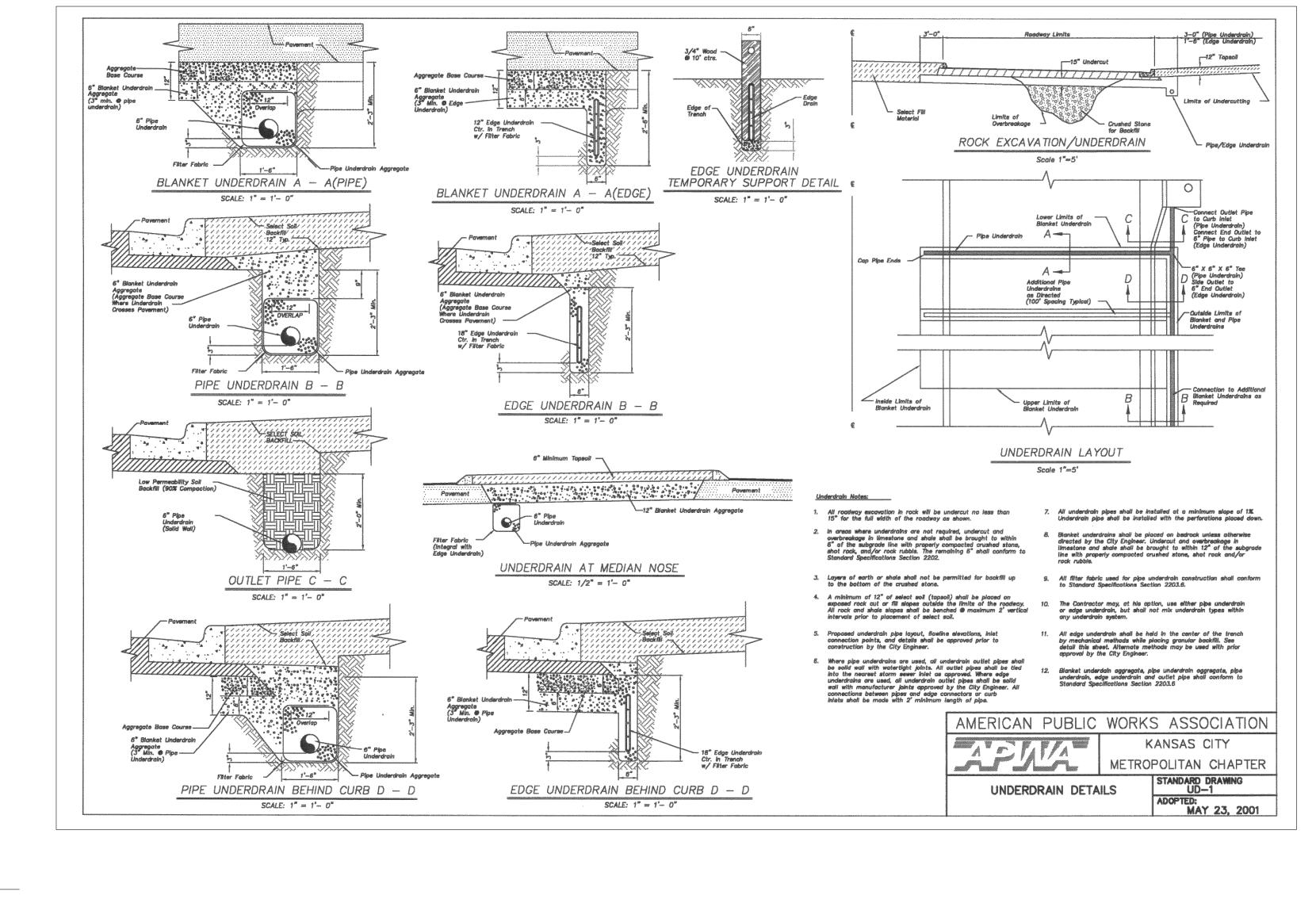
OUTLET EROSION PROTECTION - RIPRAP

Not to Scale



NOTES:

- 1. GRANULAR FILL SHALL BE 1/2" CLEAN ROCK, PLACED IN 6" LIFTS AND COMPACTED BY SLICING WITH A SHOVEL.
- 2. TAMPED FILL SHALL BE FINELY DIVIDED, JOB EXCAVATED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND STONES, COMPACTED TO TYPE AA MR-5 COMPACTION.
- 3. HAND PLACED FILL SHALL BE FINELY DIVIDED MATERIAL, FREE OF DEBRIS AND STONES, COMPACTED TO TYPE AA MR-5 COMPACTION.
- 4. ALL PIPE SHALL BE INSPECTED PRIOR TO BACKFILL. ALL PIPE COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED AT THE CONTRACTORS EXPENSE.



12" 80% Topsoil, 20% Sand

^ 4" Perforated HDPE−ADS N−12

— ADS Proplex 401 Nonwoven Geotextile

TYPICAL UNDERDRAIN DETAIL

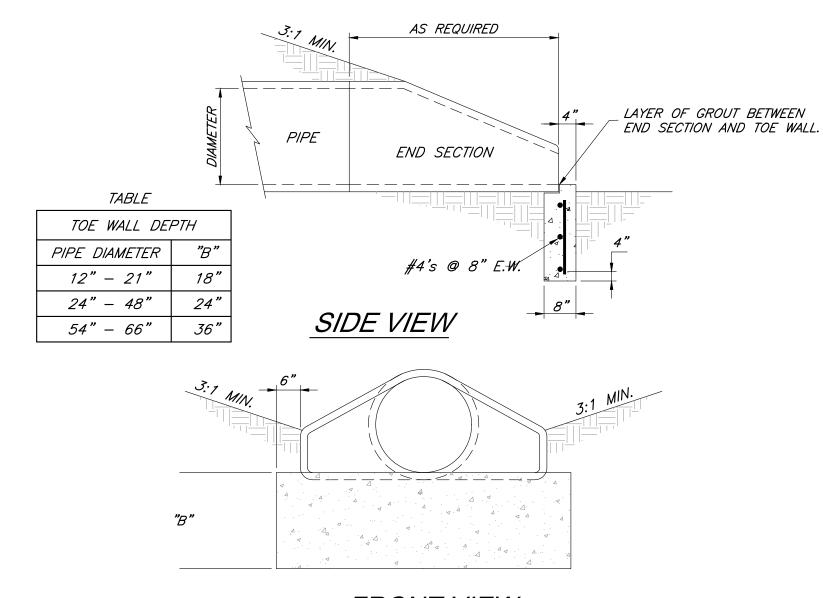
Not to Scale

12" 3/4" Clean, crushed gravel

END SECTION NOTES:

1. THE DEPTH OF THE TOE WALL SHALL BE PER TABLE. IF BEDROCK IS ENCOUNTERED A MINIMUM OF 12" INTO BEDROCK IS REQUIRED.

2. ALL CONCRETE SHALL BE KCMMB-4K.



FRONT VIEW

END SECTION DETAIL NOT TO SCALE

--ta agon W View F

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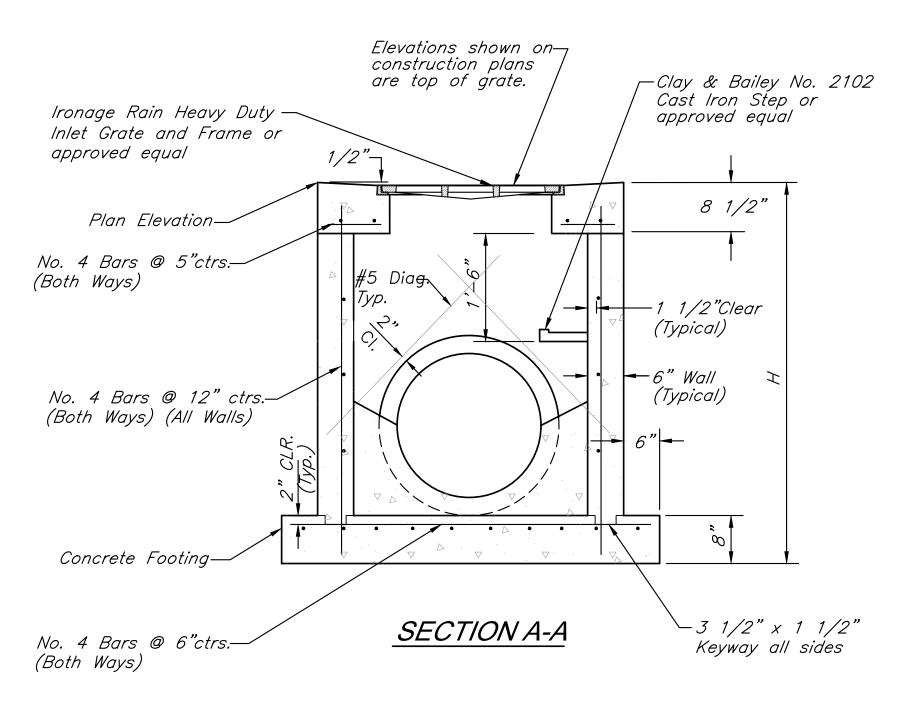


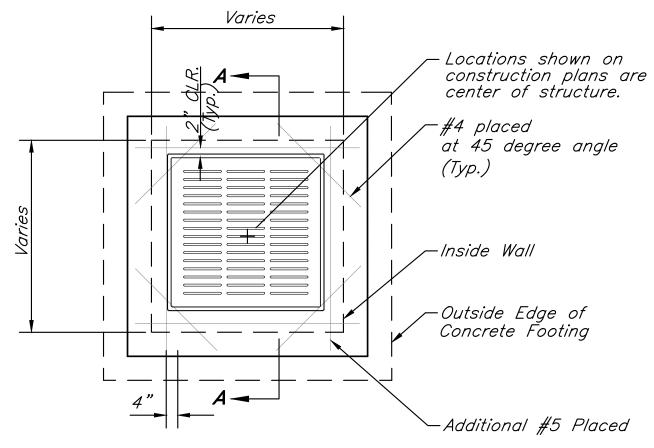
Storm Sewer

JOB NO: 1249 SCALE:

Details

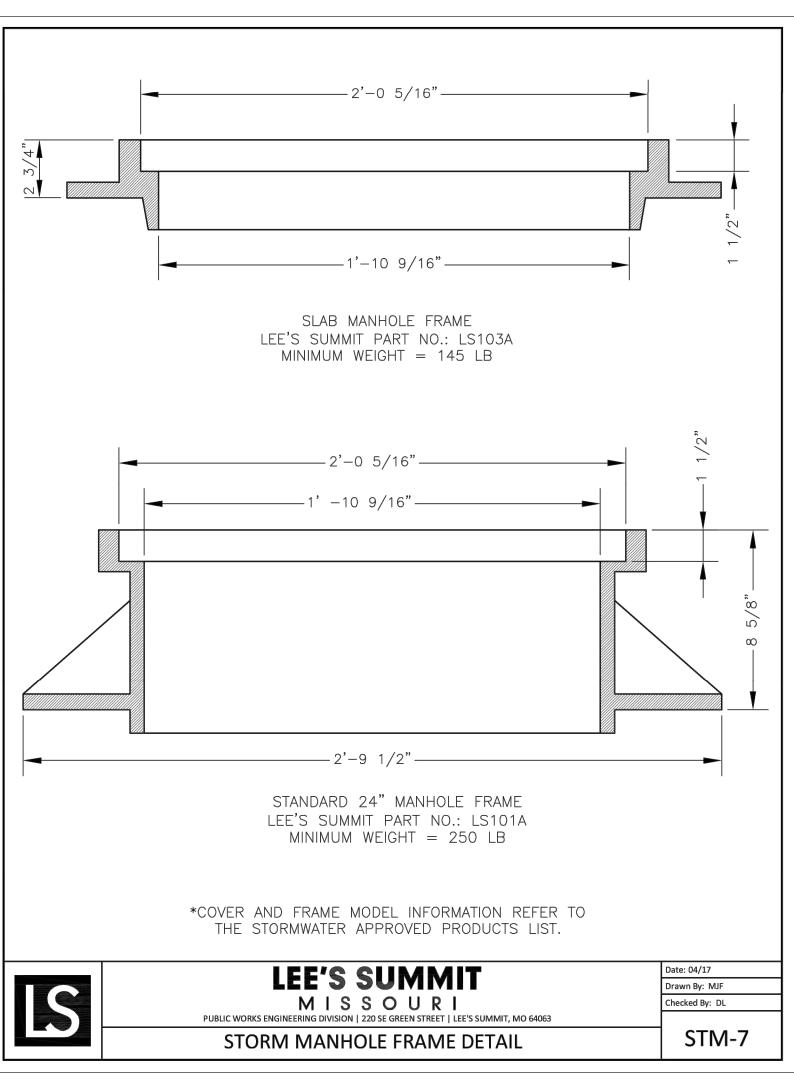
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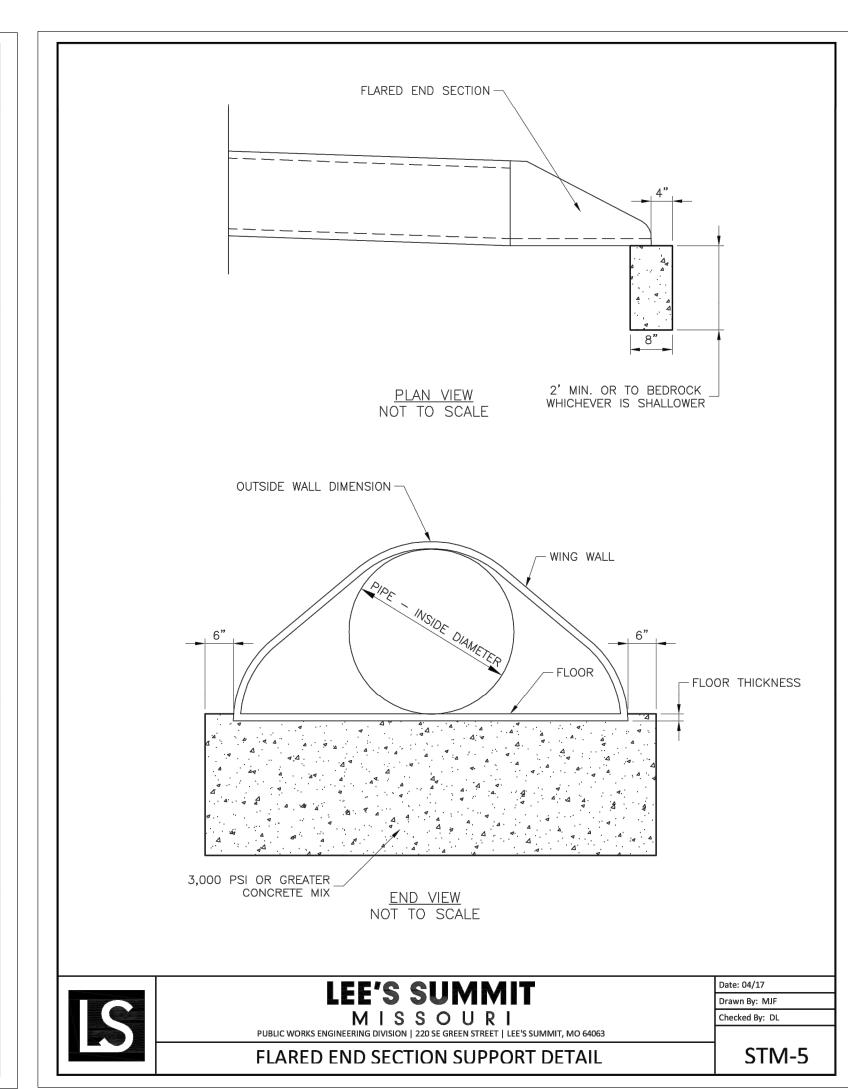


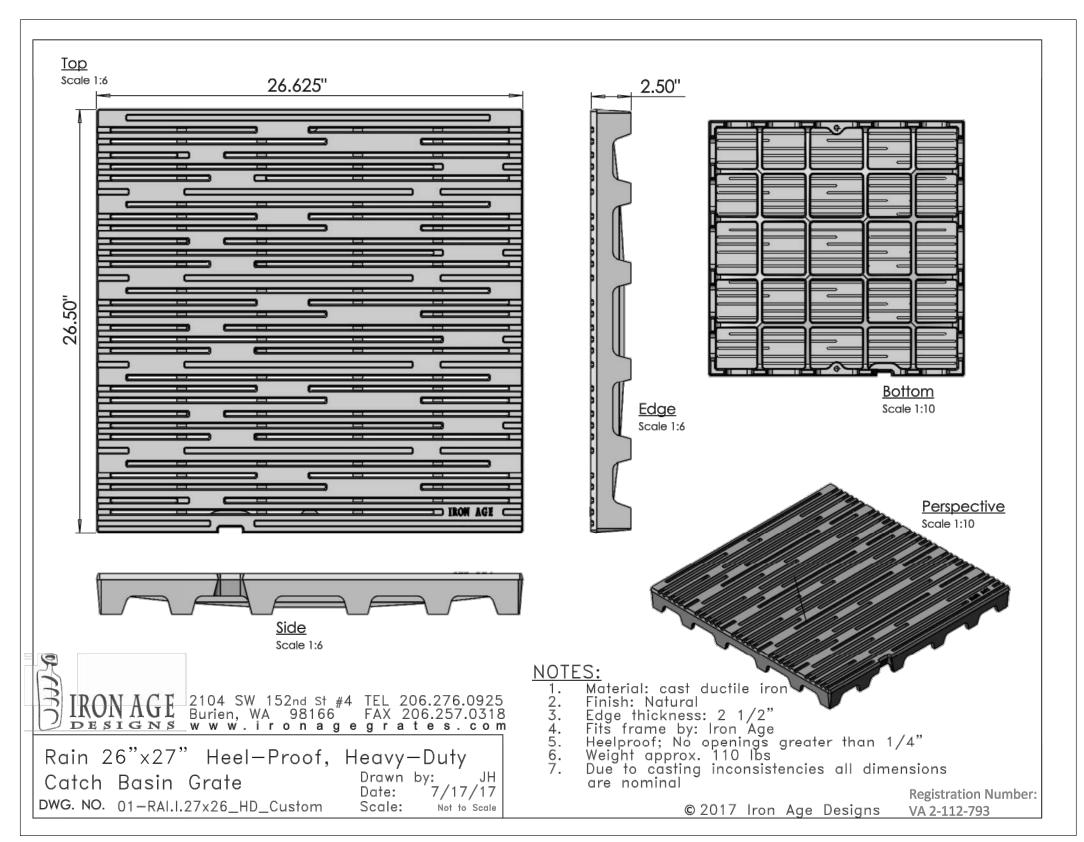


PRE-CAST GRATE INLET DETAIL

Not To Scale







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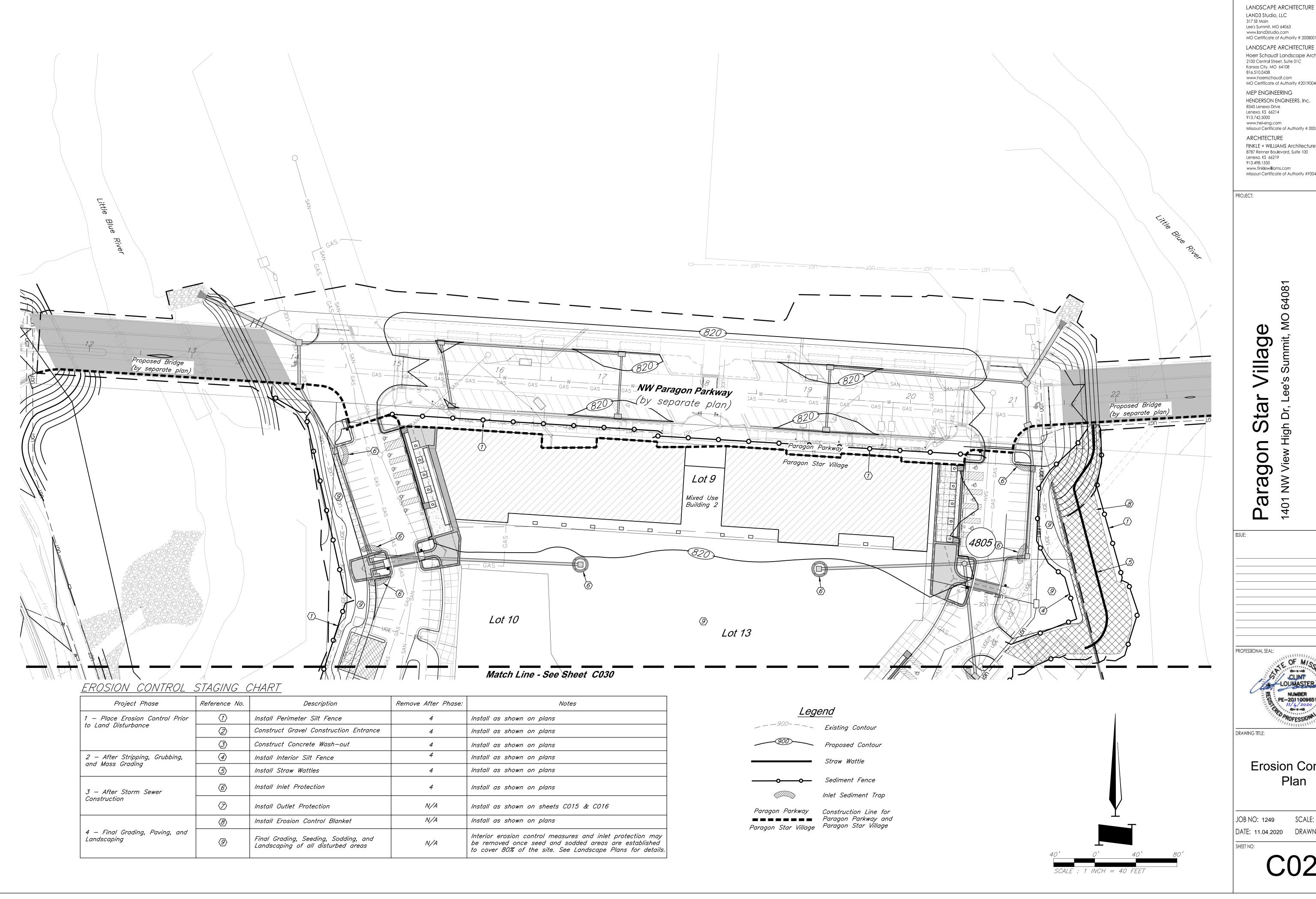
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Storm Sewer **Details**



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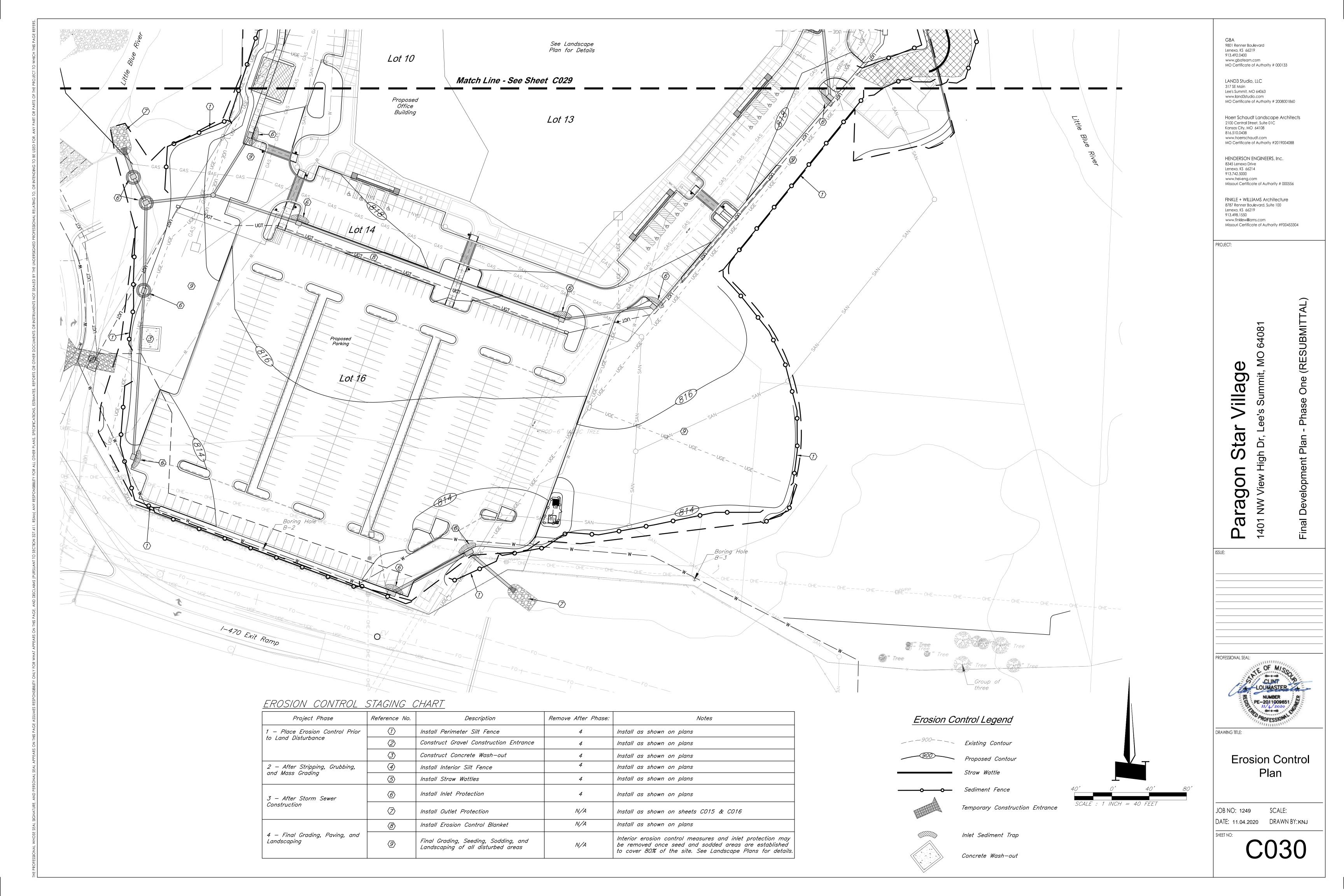
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Erosion Control Plan



EROSION AND SEDIMENT CONTROL NOTES

The layout of erosion control best management practices (BMPs) shown on the engineering plans is intended to control erosion and minimize, if not eliminate, the transport of sediment from the disturbed areas. The Contractor shall be responsible for the evaluation of existing surface drainage patterns and for making adjustments to the BMP locations to best control erosion and minimize, if not eliminate, the transport of sediment from the disturbed areas. The following are measures to achieve the control of erosion and sediment.

- 1. Stabilization Practices Stabilization practices are very effective at preventing erosion by shielding the soil surface from the impact of rain, slowing the velocity of runoff, holding soils in place, and increasing infiltration of runoff and allowing the soil to absorb more rainfall.
 - a. Temporary Seeding Stabilization During acceptable growing periods (see Table 1 below); temporary seeding of annual vegetation with a straw mulch cover shall be used as a temporary cover until permanent vegetation is established. If there is a possibility that a vegetative cover will be required to control erosion for more than 1 year, then consider the addition of a perennial/permanent grass species as part of a seeding mixture.

Table 1. Temporary Seeding Dates and Minimum Application Rates

Seeding Dates	Temporary Seed Species	Minimum Application Rates (pure live seed lbs. per acre)	Straw Mulch (tons per acre)
Jan. 1 – Jan. 31	None	Not Applicable	2.5
Feb. 1 - May 31	Annual Ryegrass	<i>120</i>	<i>1.5</i>
June 1 – Aug.4	None	Not Applicable	<i>2.5</i>
Aug. 15 - Nov. 15	Cereal/Winter Rye	120	1.5
Nov. 16 - Dec. 31	None	Not Applicable	2.5

Seedbed Preparation - For broadcast seeding or drilling, loosen soil to depth of 3 inches. For no till drilling, loosen soil if it is compacted. Loosen compacted, hard or crusted soil surfaces with a disk, ripper, chisel, harrow or other tillage equipment. Avoid preparing the seedbed under excessively wet conditions. For establishment and long—term growth, apply a complete fertilizer at rates recommended by soil tests or as specified in plans and specifications. If soil pH is less than 6.0, apply lime according to soil tests. Incorporate necessary lime and fertilizer to a depth of 3 to 6 inches of soil.

Installation — For the best results use certified seed. Apply seed uniformly using a cyclone seeder, drop-type spreader, drill, cultipacker seeder or hydroseeder. When using a drill seeder, plant rye or other grains about 1 inch deep and plant grasses no more than ½ inch. A vegetative straw mulch cover shall be applied over the seed mixture to help germinate and establish plant cover, control weeds, and protect seed mixture against temperature extremes. Follow straw mulch preparation and application procedures described herein.

b. Temporary Mulch Stabilization - During non-growing periods, a straw mulch cover shall be applied in unseeded areas to protect against erosion until temporary or permanent vegetation is established.

Site Preparation — Divert runoff water from areas above the site that will be mulched. Remove stumps, roots and other debris from the construction area. Grade area as needed to permit the use of equipment for seeding,

mulching and maintenance. Shape area so that it is relatively smooth.

Application — Spread straw mulch uniformly over the area with a power blower, hydroseeder, or by hand. No more than 25% of the ground surface should be visible after spreading. Apply straw mulch at a rate of 1.5 tons per acre as a seed cover or 2.5 tons per acre as a stand alone cover. The straw should be dry, unchopped, unweathered; free of weed seeds and rot. In areas of steep slopes or high winds, or in critical areas such as swales, mulching may need to be secured to the ground with a binder, netting, or tacking.

c. Permanent Seeding Stabilization - All disturbed areas shall be permanently seeded with a cool season grass mixture as specified in the Standards and Specifications of the City of Lee's Summit, Missouri...

Seedbed Preparation - loosen soil to depth of 3 inches. For no till drilling, loosen soil if it is compacted. Loosen compacted, hard or crusted soil surfaces with a disk, ripper, chisel, harrow or other tillage equipment. Avoid preparing the seedbed under excessively wet conditions. For establishment and long-term growth, apply a complete fertilizer at rates recommended by soil tests or as specified in plans and specifications. If soil pH is less than 6.0, apply lime according to soil tests. Incorporate necessary lime and fertilizer to a depth of 3 to 6 inches of soil.

Installation — For the best results use certified seed. Apply seed uniformly using a hydroseeder. A vegetative straw mulch cover shall be applied over the seed mixture to help germinate and establish plant cover, control weeds, and protect seed mixture against temperature extremes. Follow straw mulch preparation and application procedures described in the Standards and Specifications of the City of Lee's Summit, Missouri.

2. Structural Practices

a. Silt Fence — A temporary sediment barrier consisting of a geotextile fabric shall be installed as shown on the attached engineering plans and details. Silt fencing shall be installed to maintain sediment onsite.

Minimum Requirements:

Location - Fence should be built on a nearly level grade and at least 10 feet from the toe of the slope to provide a broad shallow sediment pool. Install on the contour, where fence can intercept runoff as a sheet flow; not located crossing channels, waterways or other concentrated flow paths; not attached to

Spacing of Support Posts - 10 feet maximum for fence supported by wire; 6 feet maximum for high strength fabric without supportive wire backing. Support posts should be driven into the ground a minimum of 10 inches deep.

Trench - Bottom 1 foot of fence must be buried minimum of 4 inches deep.

- b. Inlet Protection When installation of the storm drainage system is complete, gravel curb inlet sediment traps will be placed at the drainage system inlets. Construction shall be in accordance with attached engineering plans and details.
- c. Stockpiles The toe of stockpiles shall be placed a minimum of 10 feet from erosion control measures. If stockpiles are to remain for more than 14 days, they shall be temporarily stabilized with vegetative mulch and temporary seeding.
- 3. Maintenance The contractor shall repair all erosion control measures or re—seed areas that are disturbed or damaged as a result of weather or other situations, within 2 days after the occurrence. This will include all areas bare of vegetation.

EROSION CONTROL GENERAL NOTES

- 1. The Contractor is responsible for erosion control during construction and until the Owner and City accepts the work as complete. The erosion control measures shown on this plan are a typical minimum installation. The Contractor shall be responsible for adjusting or adding to these measures as necessary during the phasing of the construction to assure adequate control.
- 2. Clearing and grubbing within 50' of a defined drainage course should be avoided when possible. Where changes to a defined drainage course occur, work should be delayed until all materials and equipment necessary to protect and complete the drainage change are on site. Changes shall be completed as quickly as possible once the work has been initiated. The area impacted by the construction activities shall be revegetated or protected from erosion as soon as possible, areas within 50' of a defined drainage ways should be recontoured as needed or otherwise protected within five (5) working days after grading has ceased.
- 3. Where soil disturbing activities cease in an area for more than 14 days, the disturbed areas shall be protected from erosion by stabilizing the area with mulch or other similarly effective erosion control measures. If the slope of the area is greater than 3:1 or if the slope is greater than 3% and greater than 150 feet in length, then the disturbed areas shall be protected from erosion by stabilizing the area with mulch or other similarly effective erosion control measures if activities cease for more than seven (7) days.
- 4. Existing vegetation shall be preserved to the extent and where practical. In no case shall disturbed areas remain without vegetative ground cover for a period in excess of 60 days.
- 5. Additional site management practices which shall be adhered to during the construction process shall

-Solid and hazardous waste management including providing trash containers and regular site clean up for proper disposal of solid waste such as building and construction material, product/material shipping waste, food containers and cups, and providing containers for the proper disposal of waste paints solvents, and cleaning compounds.

-Provisions of portable toilets for proper disposal of sanitary sewage.

-Storage of construction materials away from drainage courses and low areas.

-Installation of containment berms and use of drip pans at petroleum product and liquid storage tanks and containers.

6. All disturbed areas shall be seeded, fertilized and mulched, or sodded, in accordance with the Standards and Specifications adopted by the City of Lee's Summit, Missouri and good engineering

practices. This shall be completed within fourteen (14) days after completing the work, in any area. If this is outside of the seeding period, silt barriers or other similarly effective measures shall be provided until such time that the areas can be seeded.

- 7. All erosion control measures, temporary or permanent, require maintenance to preserve their effectiveness. All erosion control devices shall be inspected immediately after each heavy rainstorm and at least daily during prolonged rainfall. Any required repairs should be made immediately. All costs associated with the repair work including related incidentals will be the contractor's responsibility and shall be included in the Contractor's bid for the proposed work. Only after the project is complete and accepted can the erosion control be removed.
- 8. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the around is frozen, or covered with snow. The seed shall comply with requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seed shall not exceed one percent by weight of mix.
- 9. During the dates Dec. 15 through May 30 ALL lime, fertilizer, seed, and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October, and November 1st through December 15th, lime, fertilizer, seed, and mulch shall be applied at the following rates:

Lime - 100% of the specified quantity Fertilizer — 75% of the specified quantity Seed - 50% of the specified quantity Mulch - 100% of the specified quantity

10. Mulch shall be Vegetative type, cereal straw form stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Apply straw mulch at a rate of 1.5 tons per acre as a seed cover or 2.5 tons per acre as a stand alone cover. Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall

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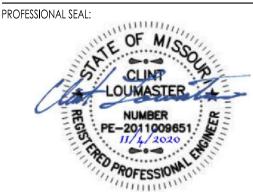
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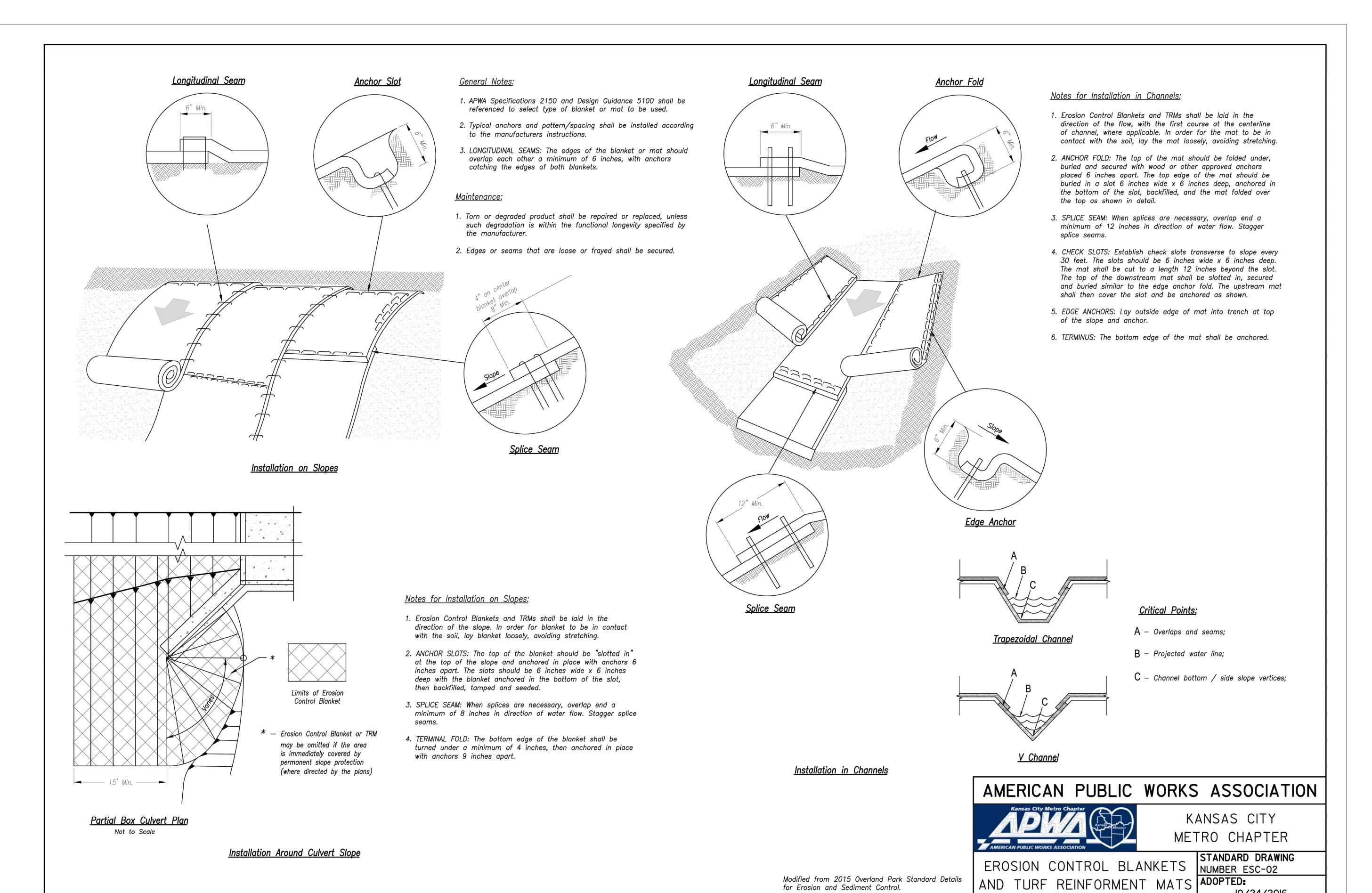
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Erosion Control Notes



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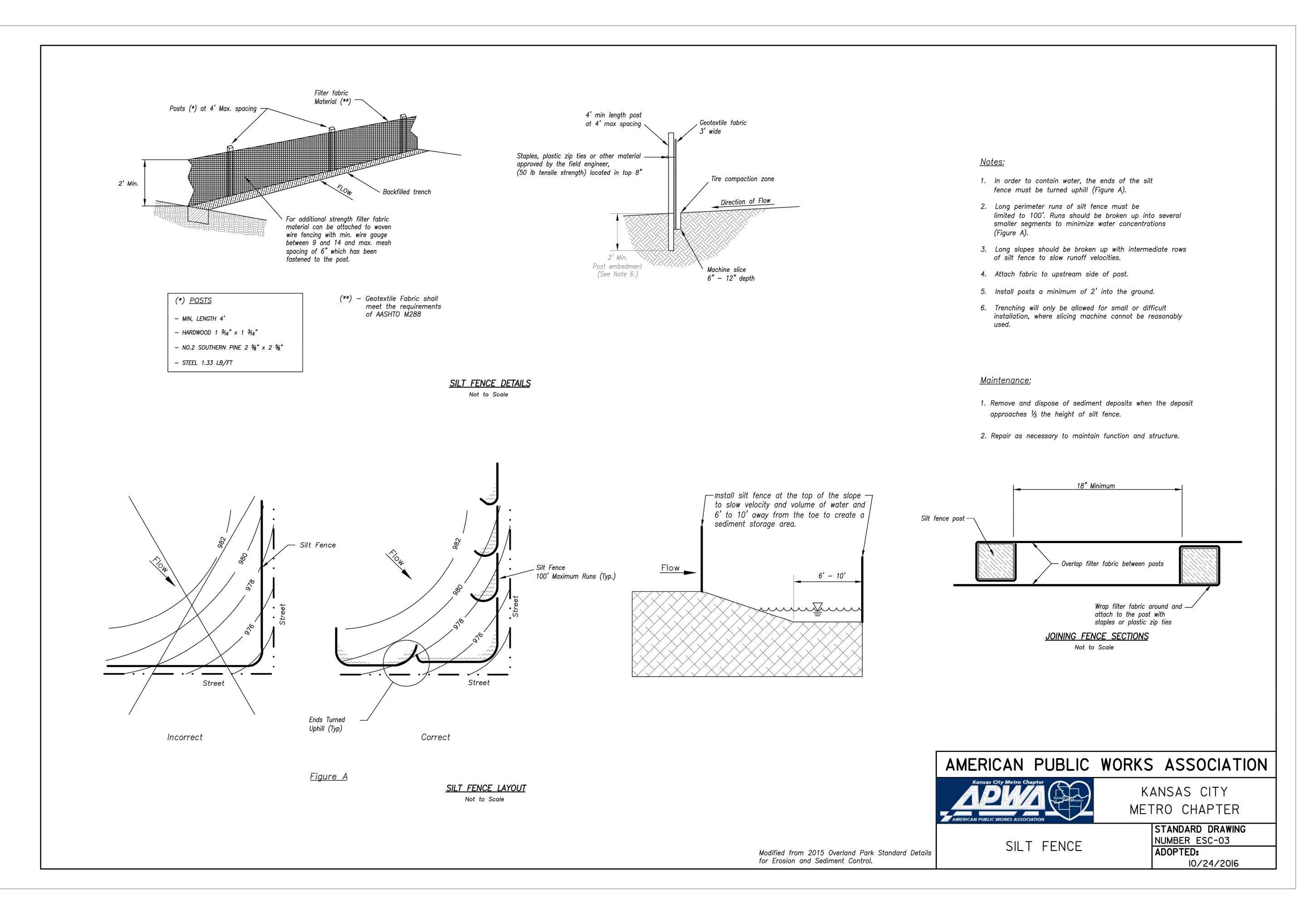
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Erosion Control Details



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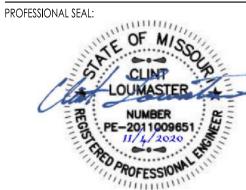
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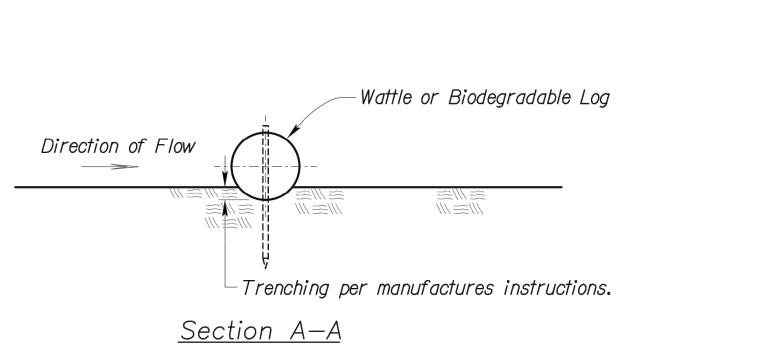
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Erosion Control Details



4'(max.) Stakes (typ.)

WATTLES AND BIODEGRADABLE LOG

AMERICAN PUBLIC WORKS ASSOCIATION



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

KANSAS CITY METRO CHAPTER

WATTLES/BIODEGRADABLE LOG

STANDARD DRAWING NUMBER ESC-04

JOB NO: 1249 SCALE: DATE: 11.04.2020 DRAWN BY: KNJ

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 The Slope barriers shall be placed along contour lines, with a short section turned upgrade 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.

Notes for Wattles and Biodegradable Log Slope Protection:

2. Install wattles and biodegradable logs per manufacturer's instructions.

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".



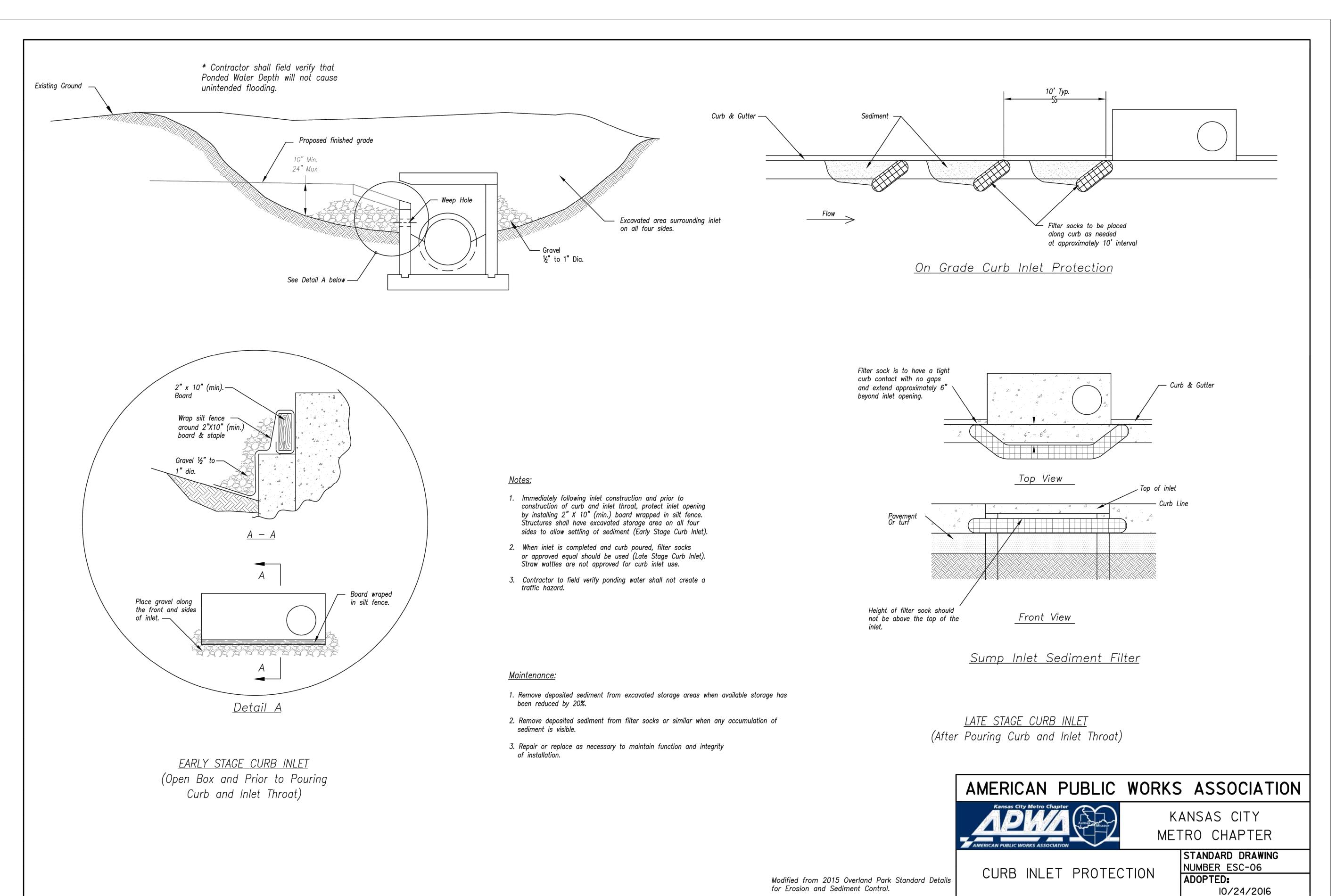
MULCH/COMPOST FILTER BERM

10/24/2016

Erosion Control

Details

Typical Elevation



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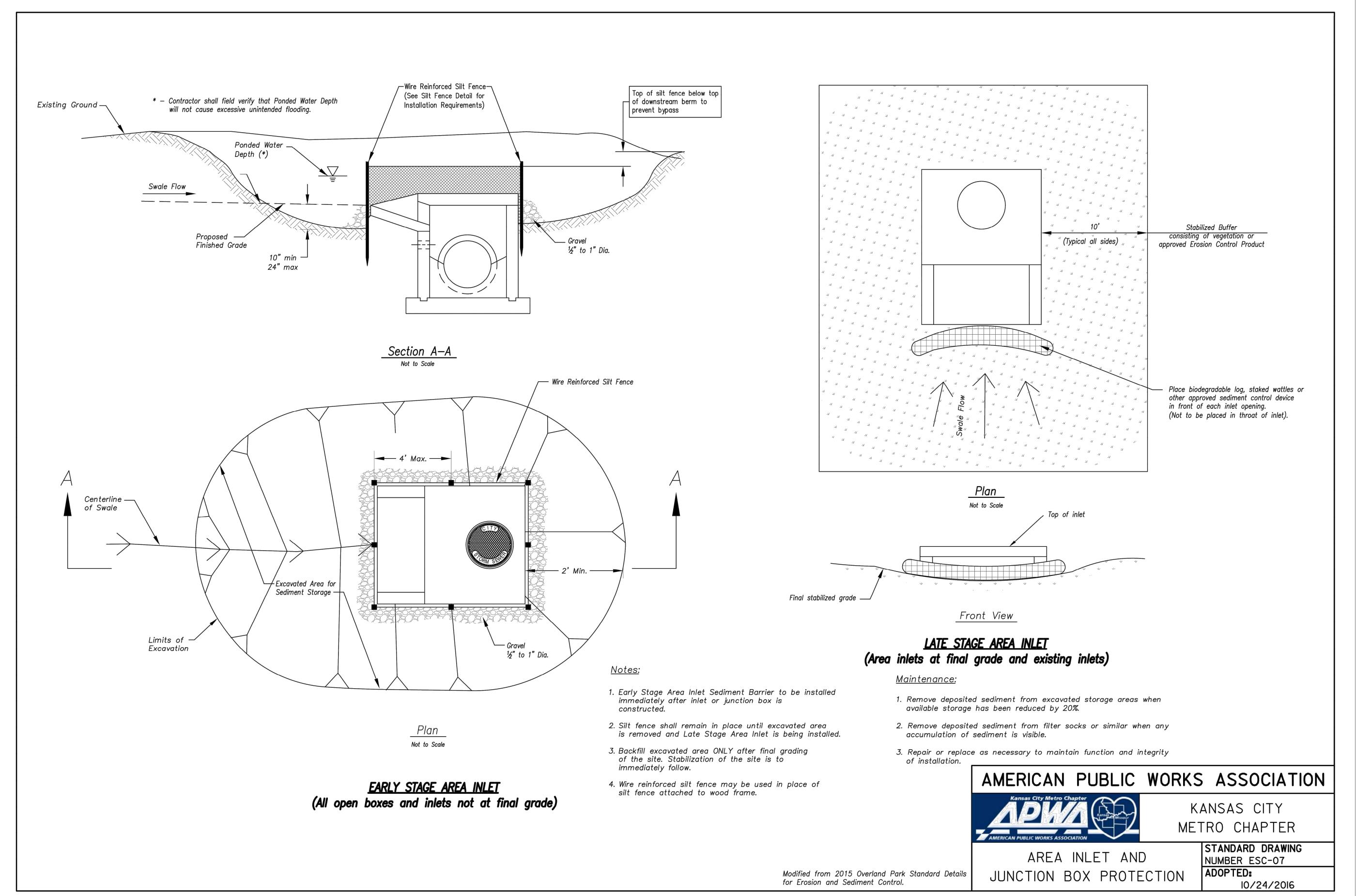
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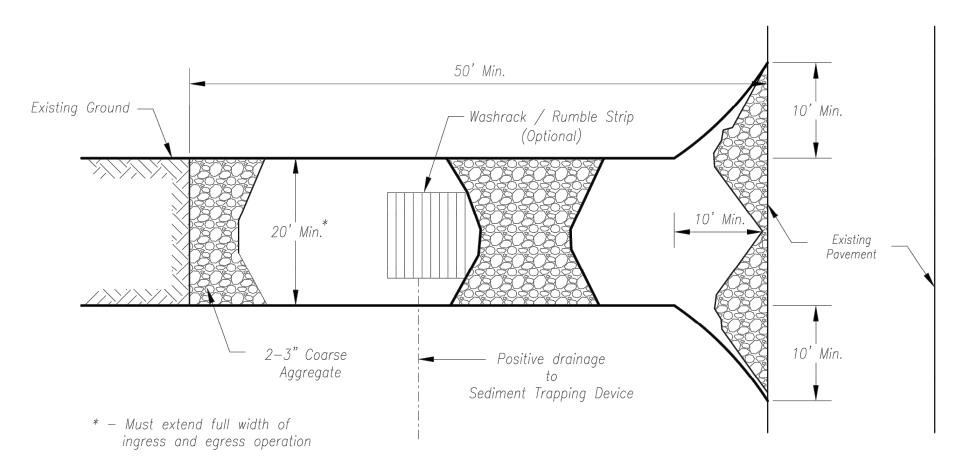
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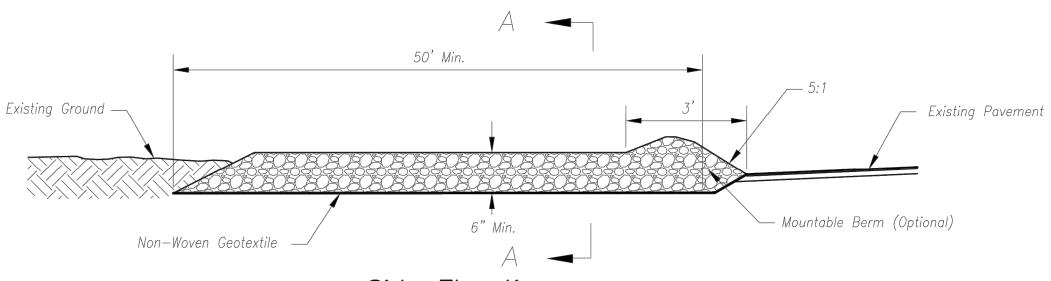
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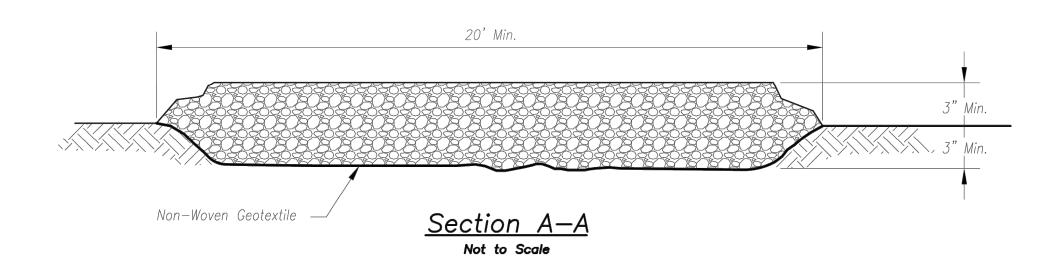
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Plan View Not to Scale



Side Elevation



Notes for Construction Entrance:

- Avoid locating on steep slopes, at curves on public roads, or downhill 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- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- 4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
- 5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.

6. Divert all surface runoff and drainage from the entrance to

a sediment control device. 7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

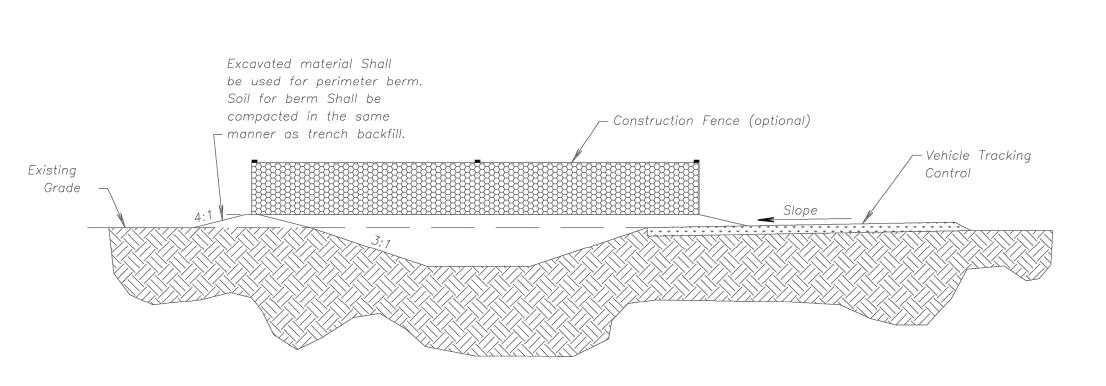
1. Reshape entrance as needed to maintain function and integrity of Installation. Top dress with clean aggregate

CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

- 1. Concrete washout areas shall be installed prior to any concrete
- relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
- 3. Vehicle tracking control is required at the access point to all concrete washout areas.
- 4. Signs shall be placed at the construction site entrance, washout of the concrete washout area(s) to operators of concrete truck and pump rigs.
- 5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

- 1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- 3. Concrete washout water, wasted pieces of concrete and all other 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 backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



CONCRETE WASHOUT

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.



CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

10/24/2016

placement on site.

- 2. Concrete washout area shall include a flat subsurface pit sized
- area and elsewhere as necessary to clearly indicate the location(s)

Maintenance for Concrete Washout:

- 2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
- debris in the subsurface pit shall be transported from the job site

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> STANDARD DRAWING NUMBER ESC-01 ADOPTED:

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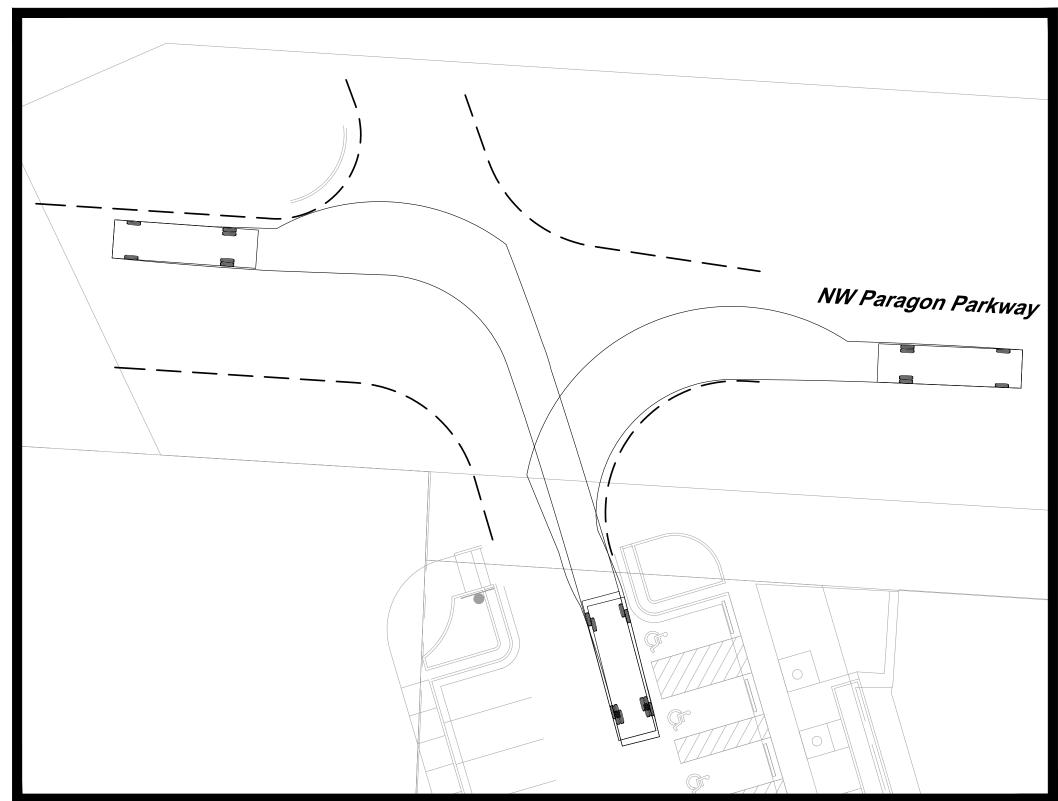
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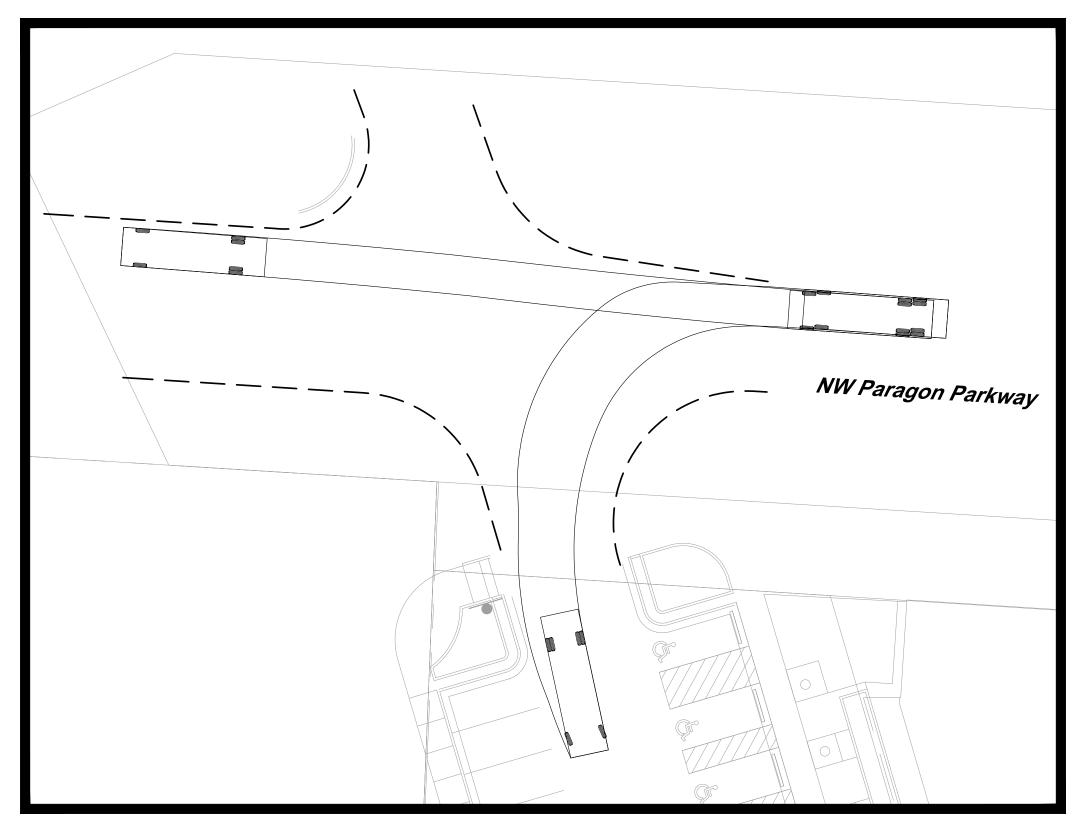
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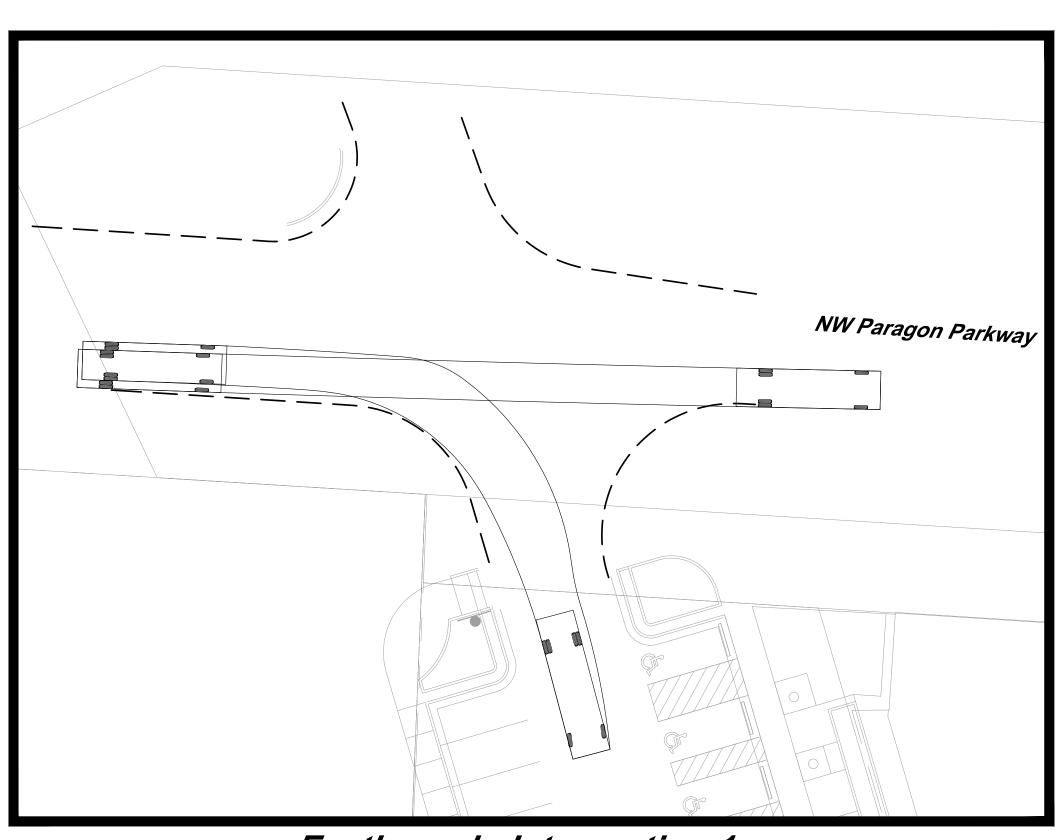
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Northbound - Intersection 1



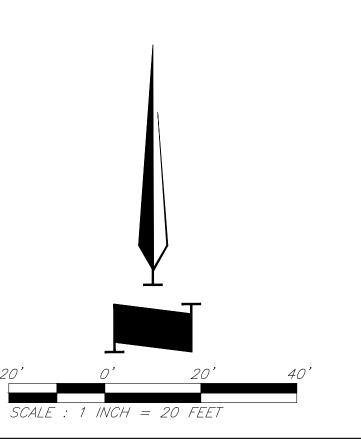
Westbound-Intersection 1



Eastbound - Intersection 1

— — — 2' offset from face of curb

Turning Movements using SU-30 Design Vehicle. Movements to a 2' clearance from tire track and curb.



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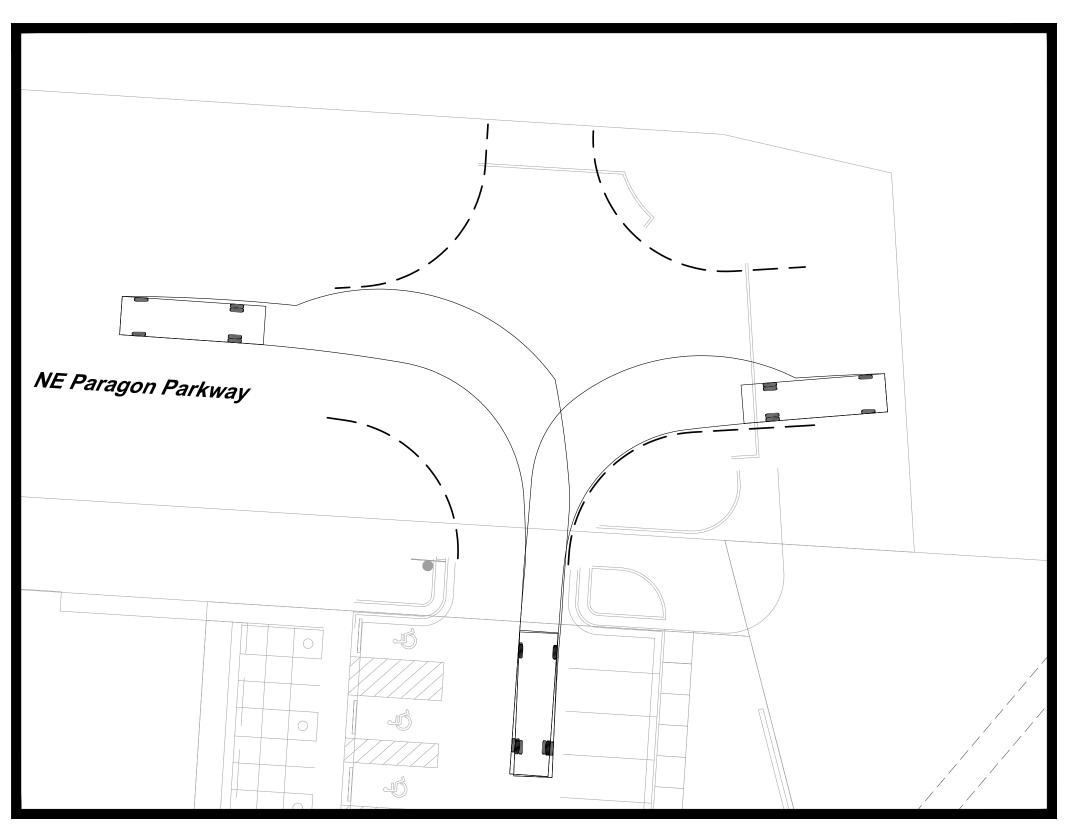
8787 Renner Boulevard, Suite 100 Lenexa, KS 66219 913.498.1550 www.finklewilliams.com Missouri Certificate of Authority #F00453304

tar Paragon 1401 NW View F

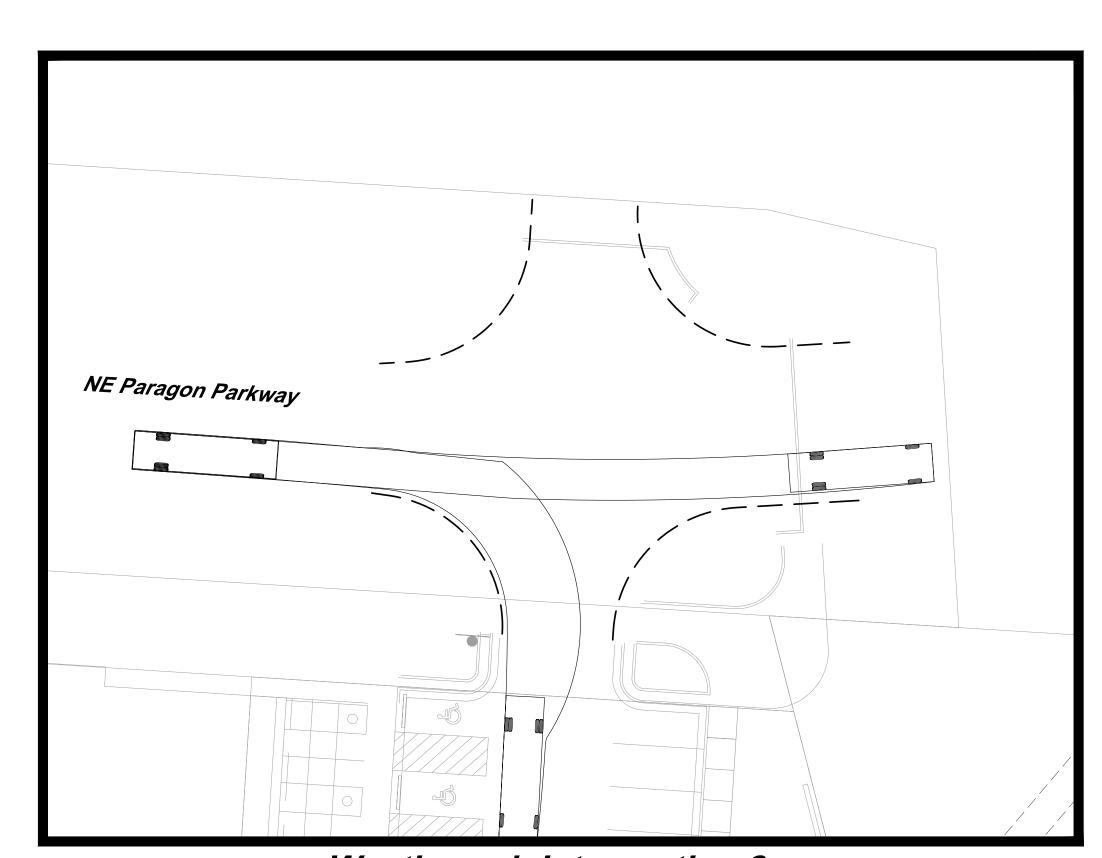


Turning Movements 1 -SU 30

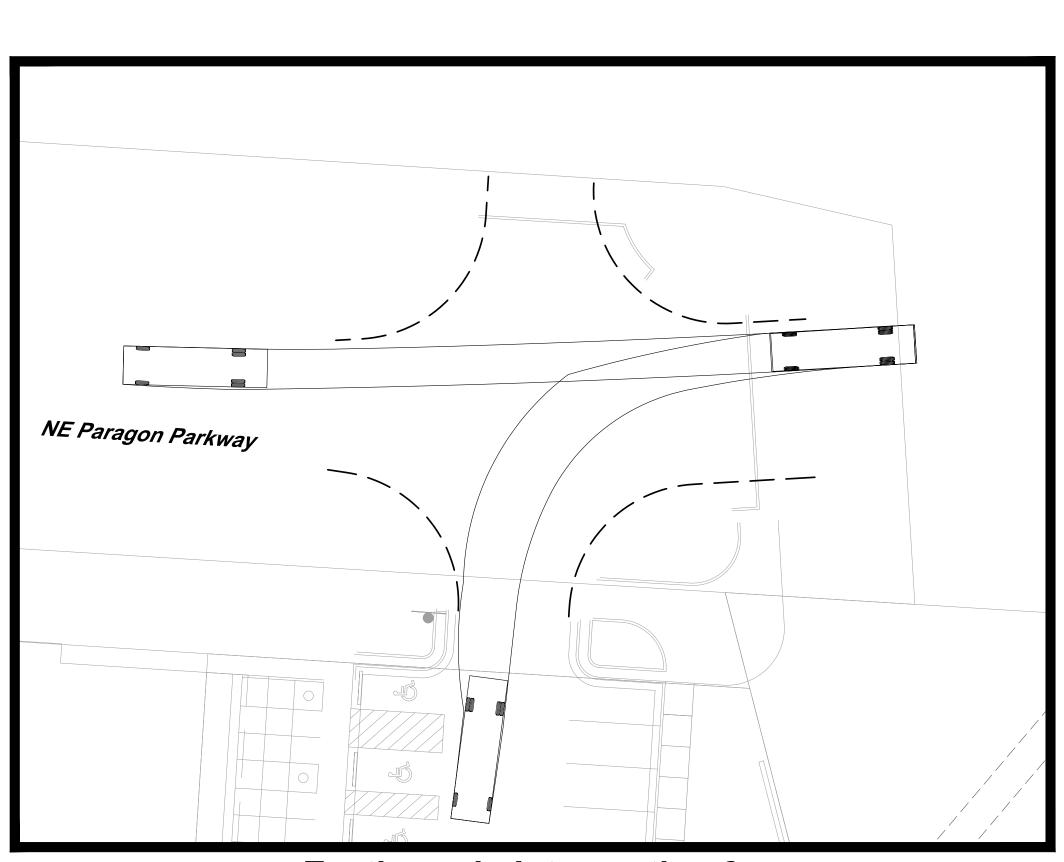
JOB NO: 1249 SCALE: DATE: 11.04.2020 DRAWN BY:KNJ



Northbound - Intersection 2



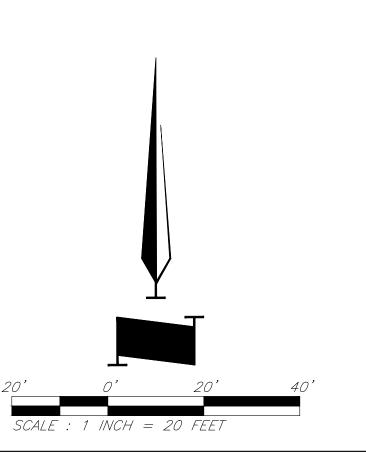
Westbound-Intersection 2



Eastbound - Intersection 2

- — — 2' offset from face of curb

Turning Movements using SU-30 Design Vehicle. Movements to a 2' clearance from tire track and curb.



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Kansas City, MO 64108 816.510.0438 www.hoerrschaudt.com MO Certificate of Authority #2019004088

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PROJECT:

O MO 64081

Paragon Star Village
A 1401 NW View High Dr, Lee's Summit, MO 6408

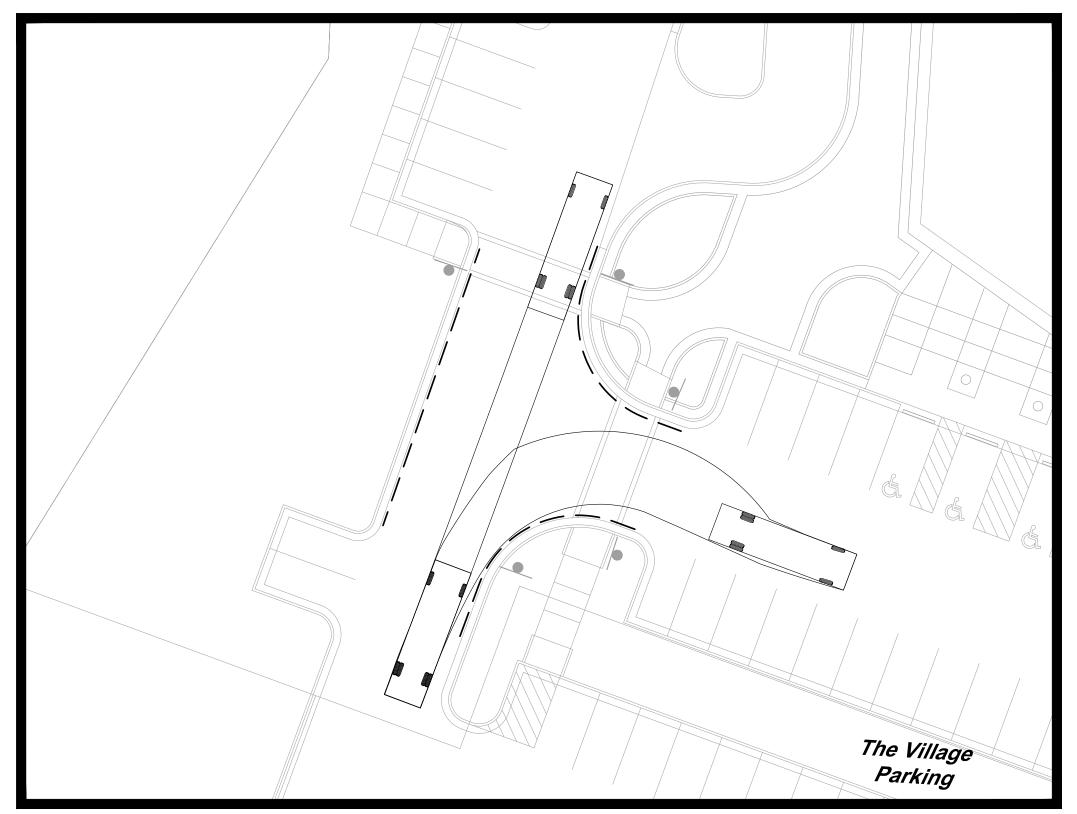


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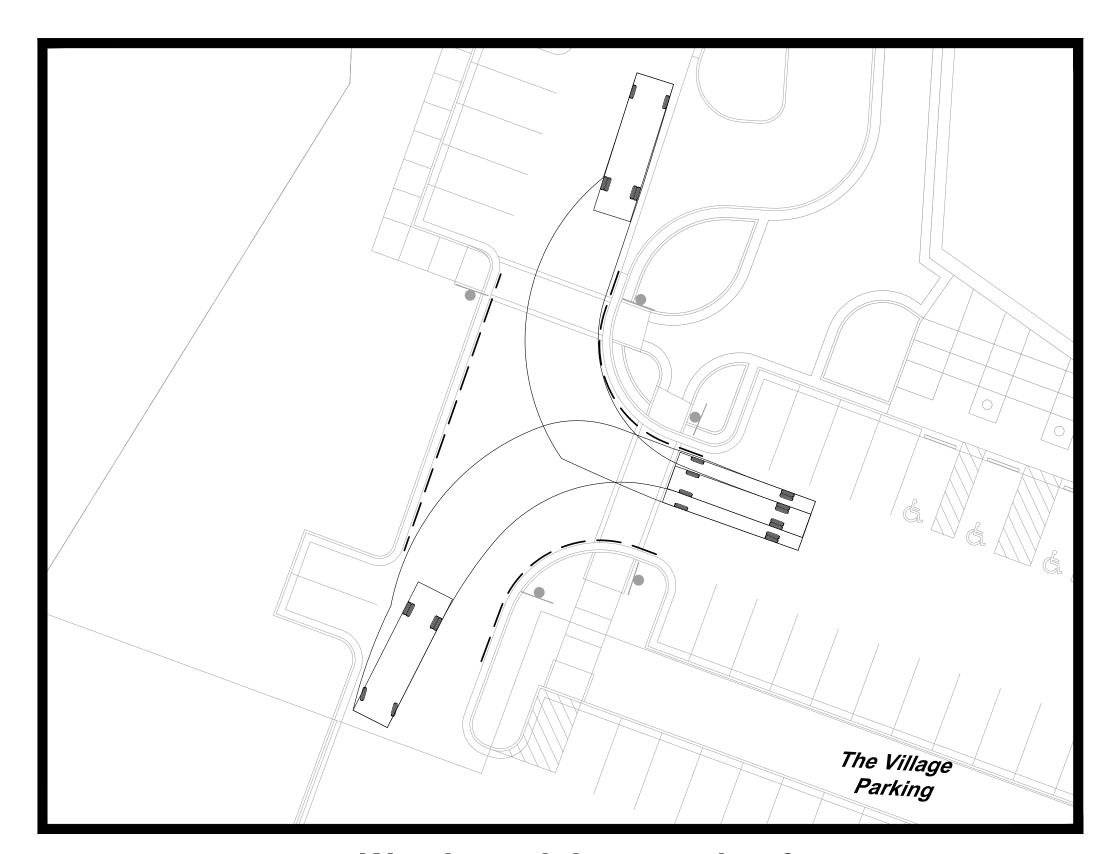
Turning Movements 2 -SU 30

JOB NO: 1249 SCALE:
DATE: 11.04.2020 DRAWN BY:KNJ

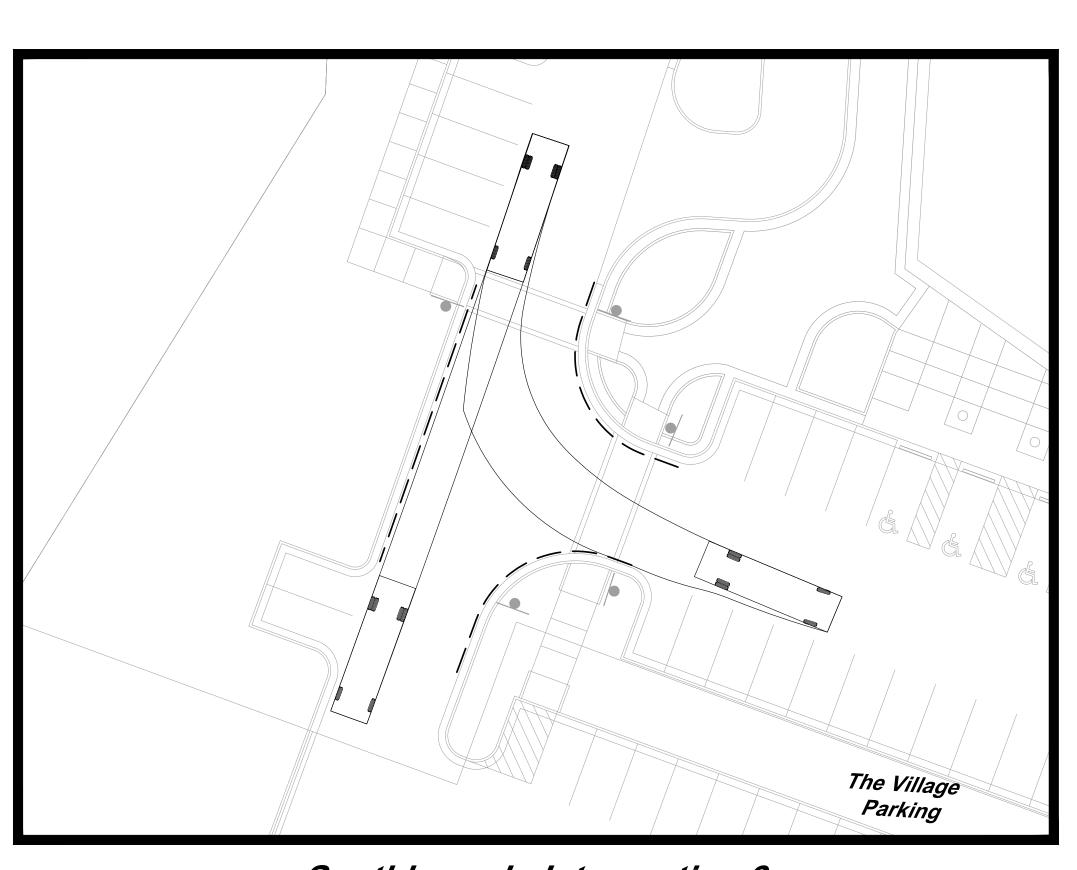
° C039



Northbound - Intersection 3



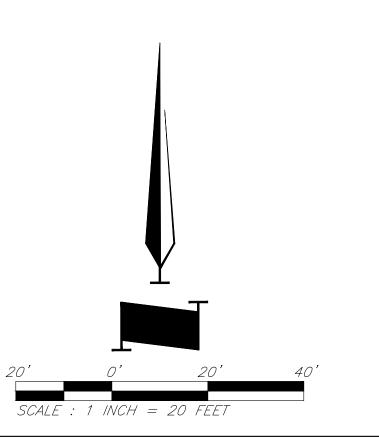
Westbound-Intersection 3



Southbound - Intersection 3

— — 2' offset from face of curb

Turning Movements using SU-30 Design Vehicle. Movements to a 2' clearance from tire track and curb.



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64081

Paragon Star Village
1401 NW View High Dr, Lee's Summit, MO 64081

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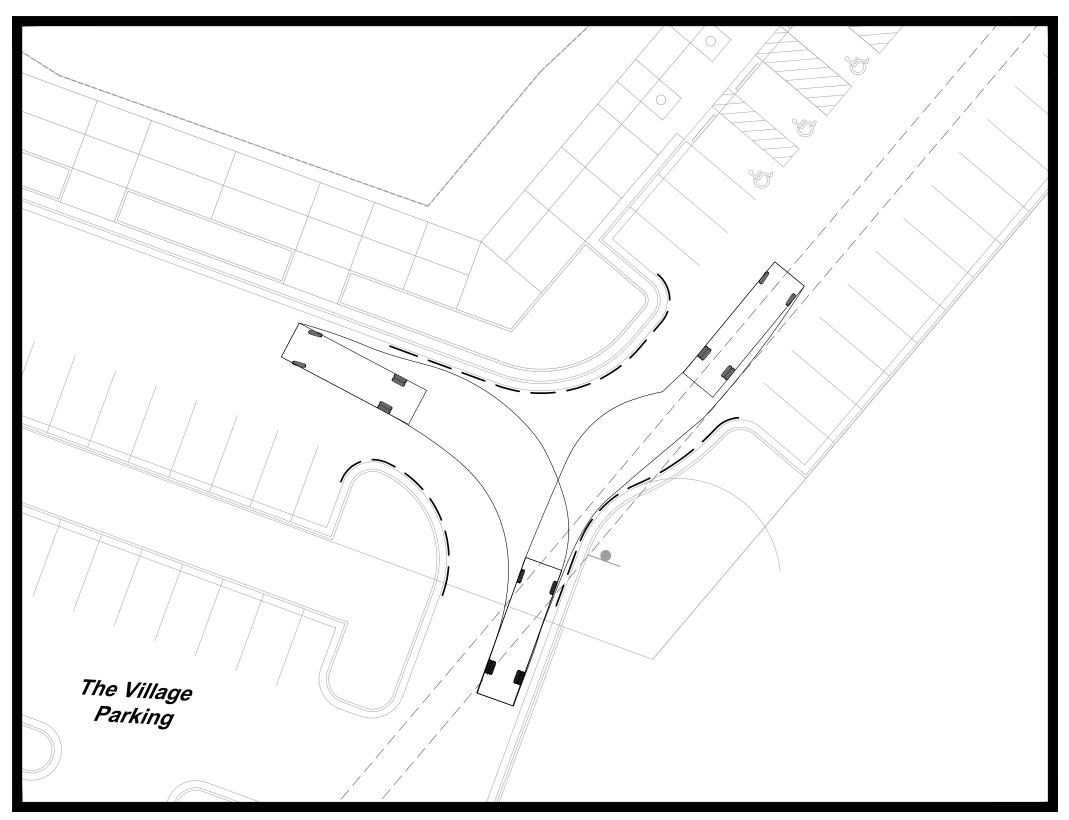


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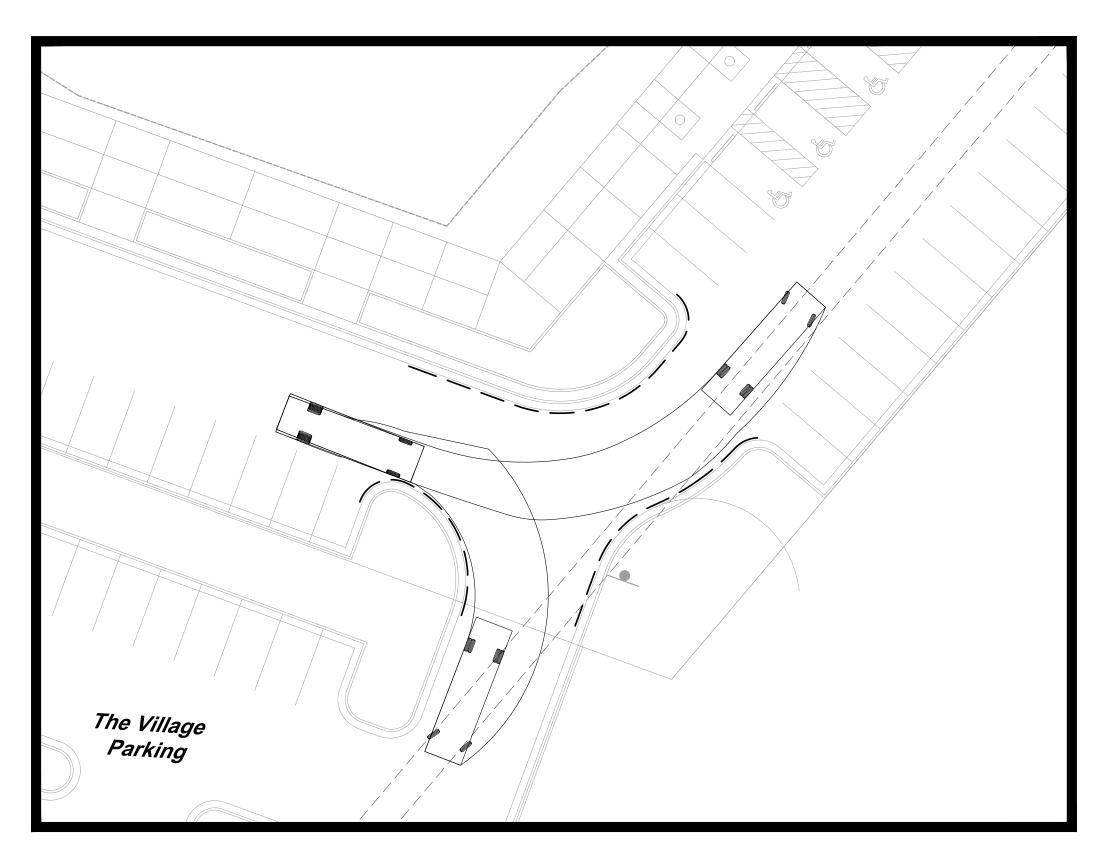
Turning Movements 3 -SU 30

JOB NO: 1249 SCALE:
DATE: 11.04.2020 DRAWN BY:KNJ

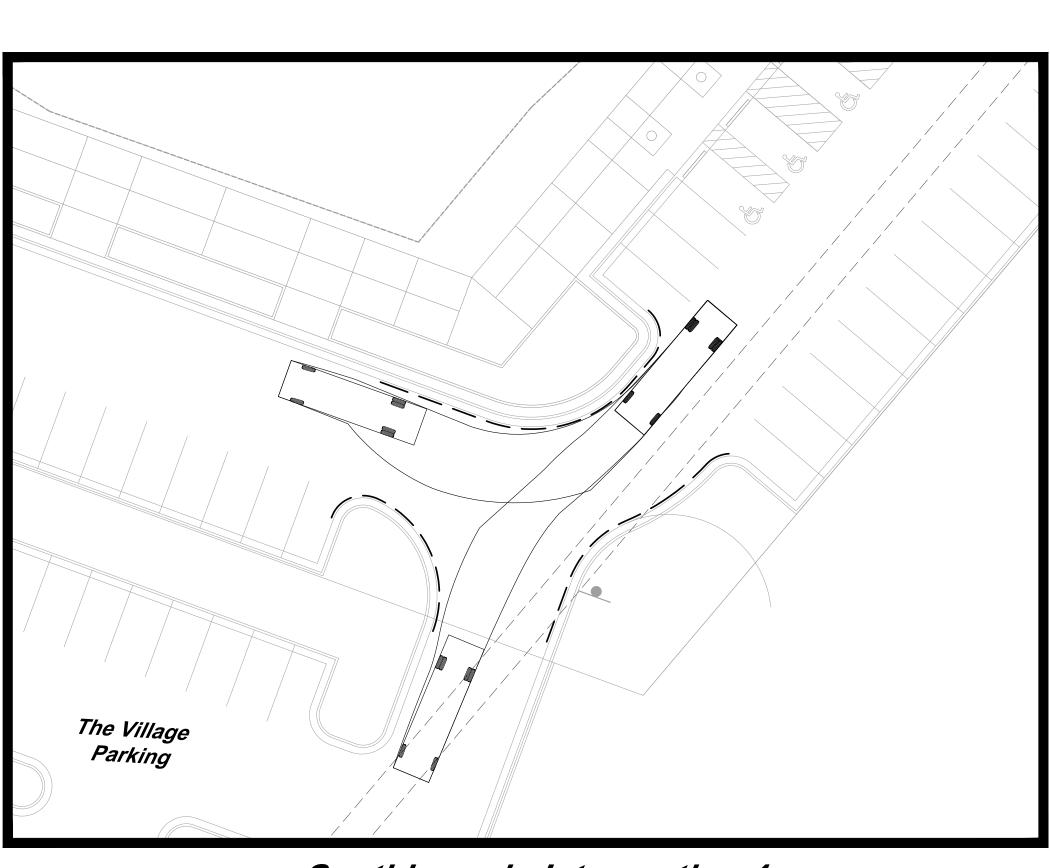
EET NO:



Northbound - Intersection 4



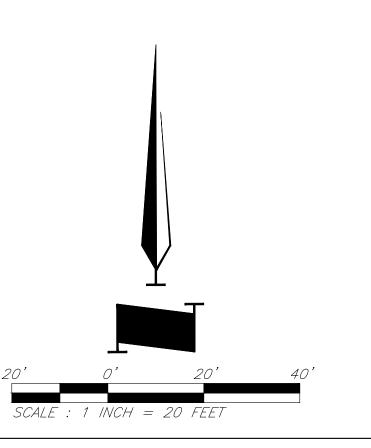
Eastbound-Intersection 4



Southbound - Intersection 4

— — — 2' offset from face of curb

Turning Movements using SU—30 Design Vehicle. Movements to a 2' clearance from tire track and curb.



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Lenexa KS 66214

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Paragon Star Village
1401 NW View High Dr, Lee's Summit, MO 64081

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DRAWING TITL

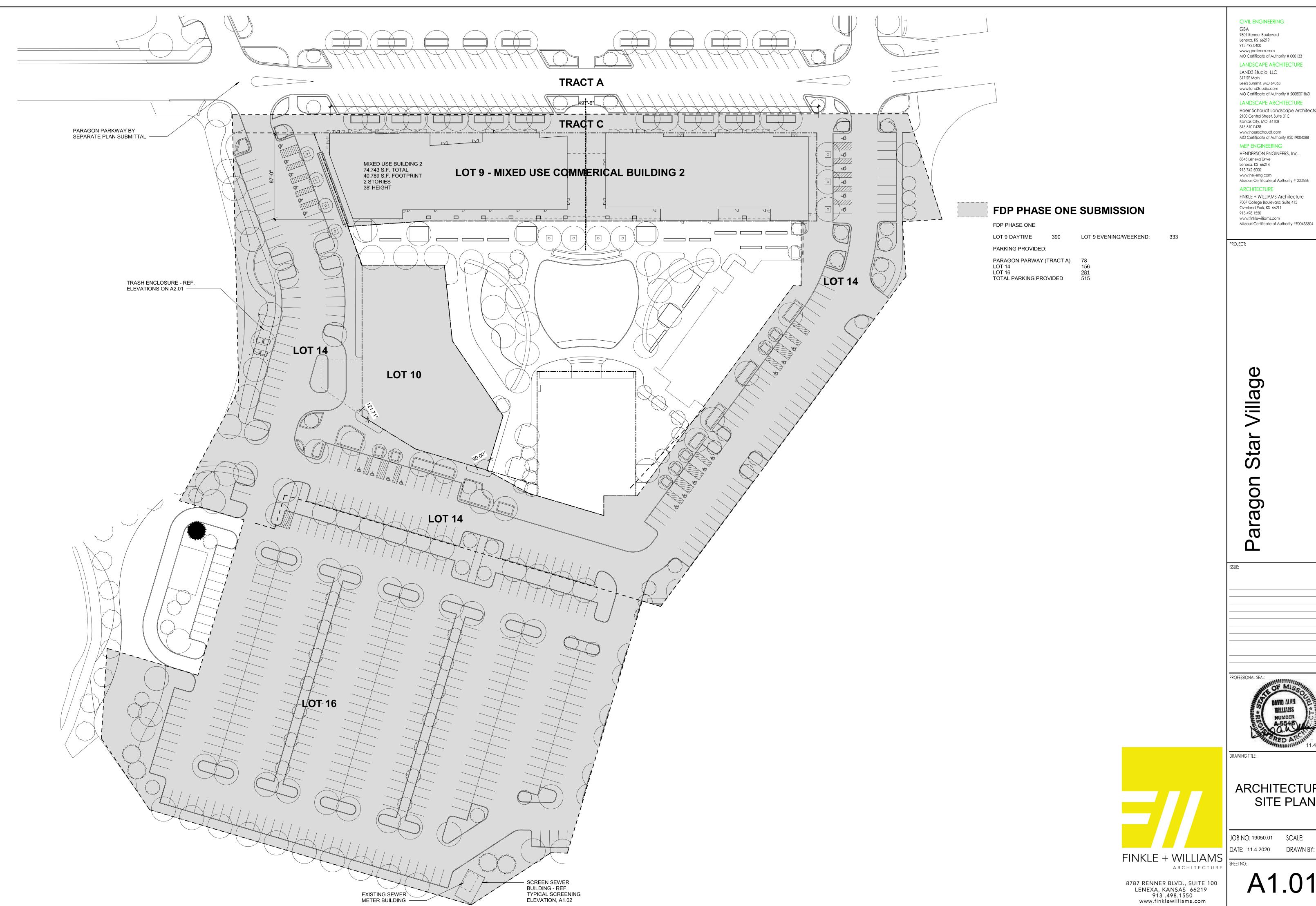
Turning Movements 4 -SU 30

JOB NO: 1249 SCALE:

DATE: 11.04.2020 DRAWN BY:KNJ

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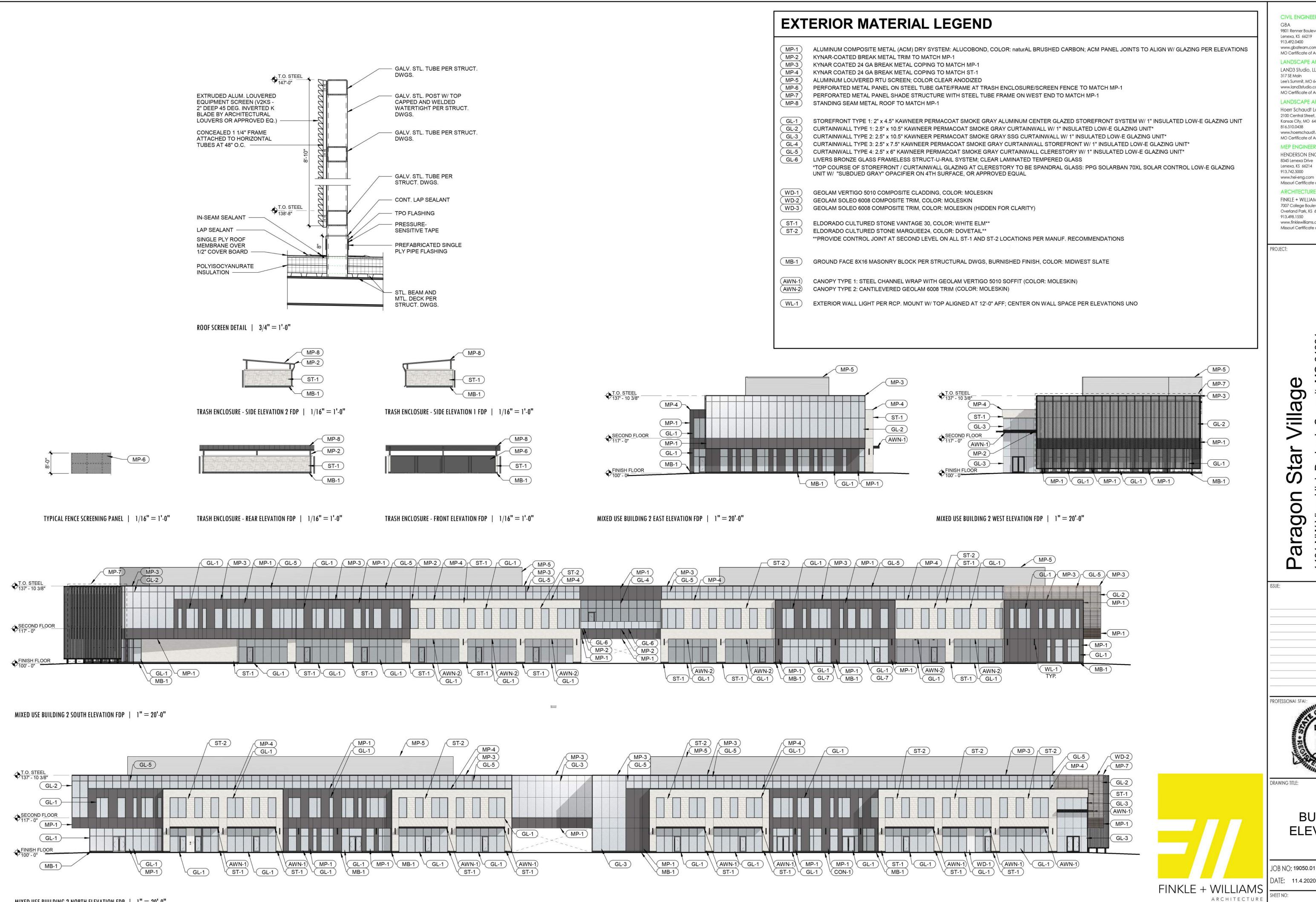
ARCHITECTURE FINKLE + WILLIAMS Architecture 7007 College Boulevard, Suite 415 Overland Park, KS 66211

913.498.1550 www.finklewilliams.com

One (RESUBMIT

Final Developme

ARCHITECTURAL SITE PLAN



MIXED USE BUILDING 2 NORTH ELEVATION FDP | 1" = 20'-0"

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Lenexa, KS 66219 913.492.0400 www.gbateam.com

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Overland Park, KS 66211 913.498.1550 www.finklewilliams.com Missouri Certificate of Authority #F00453304

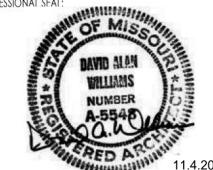
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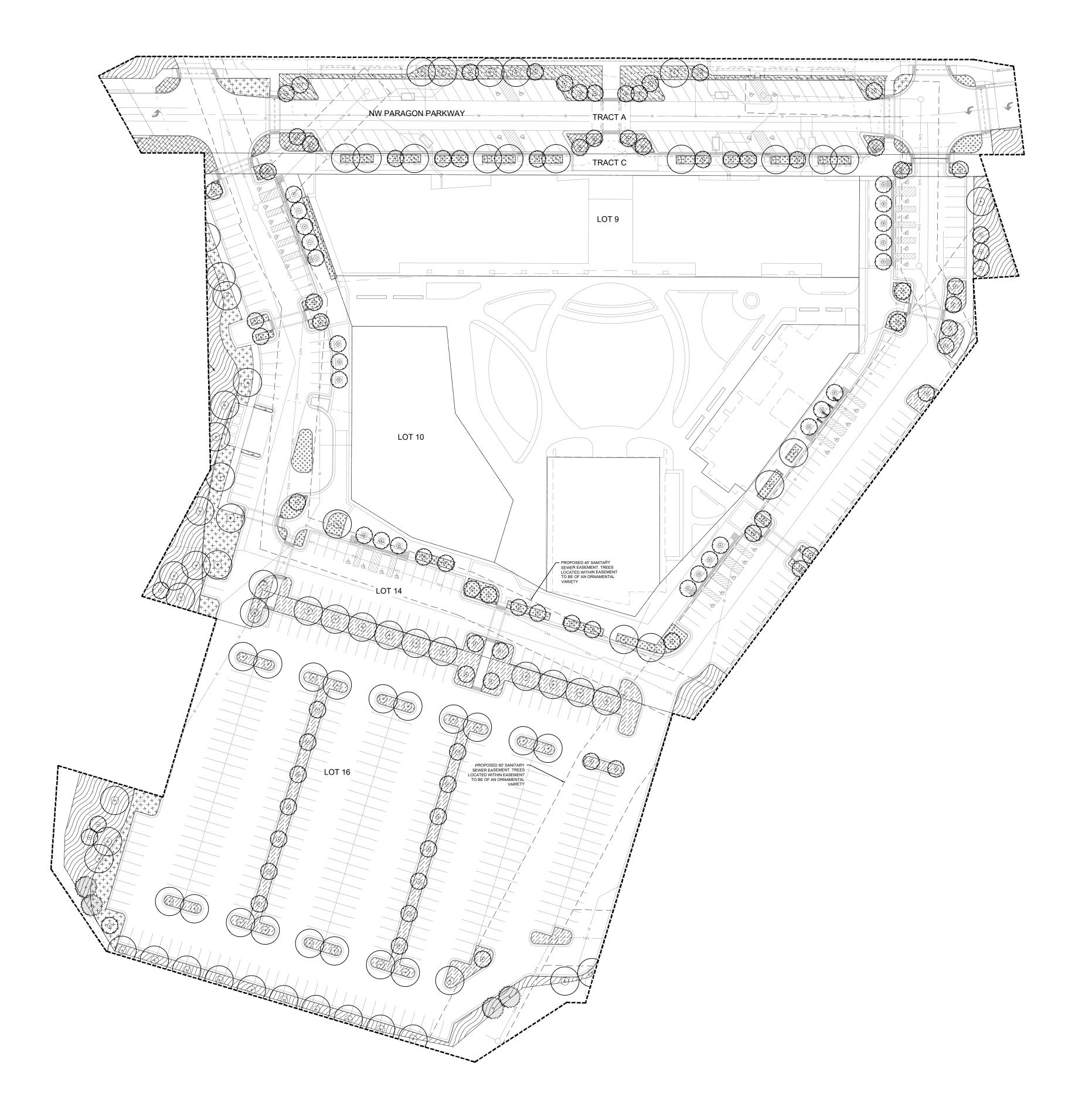


DRAWING TITLE:

8787 RENNER BLVD., SUITE 100 LENEXA, KANSAS 66219 913 .498.1550 www.finklewilliams.com

BUILDING **ELEVATIONS**

OB NO: 19050.01 SCALE: DATE: 11.4.2020 DRAWN BY:







DECIDUOUS TREE MIN *3" CALIPER SPECIES BELOW: ACER FREEMANII 'AUTUMN BLAZE' CELTIS OCCIDENTALIS GLEDITSIA TRIACANTHOS INERMIS QUERCUS BICOLOR

ORNAMENTAL TREES

MIN. *3" CALIPER

SPECIES BELOW:



GROUNDCOVER MIX - FEATURED AREAS *VARYING CONTAINER SIZE; 1 - 5 GALLONS



DISTURBED AREA SEED MIX *AREA TO BE SEEDED TO LIMITS OF CONSTRUCTION DISTURBANCE



CERCIS CANADENSIS MAGNOLIA X 'JANE' MALUS X 'ROYAL RAINDROPS' **EVERGREEN TREES**

AMELANCHIER X GRANDIFLORA



MIN. *8 FT. IN HEIGHT SPECIES BELOW: JUNIPERUS CONFERTA 'GOLDEN PACIFIC' PICEA ABIES PINUS STROBUS



GROUNDCOVER MIX *VARYING CONTAINER SIZE; PLUGS TO 5 **GALLONS** MIX OF SHRUBS, GRASSES, & PERENNIALS SPECIES BELOW: BOUTELOUA CURTIPENDULA COREOPSIS VERTICILLATA `MOONBEAM` ECHINACEA PURPUREA **EUPATORIUM DUBIUM `LITTLE JOE`** HYDRANGEA PANICULATA PEROVSKIA ATRIPLICIFOLIA RHUS AROMATICA 'GRO-LOW' SPOROBOLUS HETEROLEPIS



PARKING ISLAND MIX *VARYING CONTAINER SIZE; PLUGS TO 5 GALLONS MIX OF SHRUBS, GRASSES, & PERENNIALS SPECIES BELOW: BOUTELOUA CURTIPENDULA PANICUM VIRGATUM 'SHENANDOAH' RHUS AROMATICA `GRO-LOW` SCHIZACHYRIUM SCOPARIUM SOLIDAGO RUGOSA `FIREWORKS`



NATIVE PRAIRIE MIX SEED MIX

* PLANT MATERIAL MEETS OR EXCEEDS THE UNIFIED DEVELOPMENT ORDINANCE 8.750 ACCEPTABLE PLANT MATERIAL

LANDSCAPE REQUIREMENTS

	Ordinance Requirement	Required for this Site	Proposed
8.790.A.1. Street Frontage Trees - Paragon Parkway	One tree shall be planted for each 30 feet of street frontage, public or private, within the landscaped setback abutting said street frontage. Such trees may be clustered or arranged within the setback if approved as part of the landscape plan. A minimum 20-foot-wide landscape strip shall be provided along the full length of any street frontage, except where the building setback is less than 20 feet.	607 ft. of street frontage ÷ 30 x 2 = 41 trees required	42 trees
8.790.A.2. Street Frontage Green Strip	In commercial and industrial districts, any parking or loading area visible from a street shall be separated from the street right-of way with a landscape strip at least 20 feet wide.	20 feet	20 ft. requirements be met except a Modification I been requested
8.790.A.3. Street Frontage Shrubs - Paragon Parkway	One shrub shall be provided for each 20 feet of street frontage, or portion thereof, within the landscaped setback abutting such frontage. Such shrubs may be clustered or arranged within the setback.	607 ft. of street frontage ÷ 20 x 2 = 61 shrubs required	61 shrubs *provided within planting beds
8.790.B.1. Open Yard Areas	The minimum open yard area landscaping requirements shall be two shrubs per 5,000 square feet of total lot area (except for tracts of land for which this chapter imposes no yard requirements and permits 100 percent coverage of the lot by buildings), excluding building footprint area. For schools and churches/places of worship large sports/play fields and other areas specifically open to the public for use, i.e., tennis courts, paved play areas, paved parking lots etc. shall be excluded in the calculation of this requirement	416,244 sq.ft. of total lot area minus 58,097 sq.ft. of building footprint = 358,147 ÷ 5000 x 2 = 144 shrubs required	144 shrubs
8.790.B.2. Open Yard Areas	All portions of the site not covered with paving or buildings shall be landscaped. Open areas not covered with other materials shall be covered with sod. Ground cover shall be utilized on all slopes in excess of 3:1 slope.	-	Meets Require
8.790.B.3. Open Yard Areas	In addition to the trees required based upon street frontage, additional trees shall be required at a ratio of one tree for every 5,000 square feet of lot area not covered by buildings/structures. For schools and churches/places of worship large open sports/play fields may be excluded in the calculation of lot area. The remaining open space shall be applied to the ratio for tree planting as stated herein.	416,244 sq.ft. of total lot area minus 58,097 sq.ft. of building footprint = 358,097÷ 5000 = 72 trees required	191 trees
8.810.A. Parking Lot Landscape Islands	Landscape islands, strips or other planting areas shall be located within the parking lot and shall constitute at least five percent of the entire area devoted to parking spaces, aisles and driveways. Every four rows of parking shall include a landscape island of at least ten feet in width. Industrial zoned properties, PI-1, PI-2 and BP, shall be exempt from this requirement.	229,090 sq.ft. of parking area x.05 = 11,455 of landscape parking lot islands required	16,191 sq.ft.
8.810.B. Parking Lot Landscape Islands	As a minimum, a landscaping island shall be located at the end of every parking bay between the last parking space and an adjacent travel aisle or driveway. The island shall be no less than nine feet wide for at least one-half the length of the adjacent parking space. The island shall be planted in trees, shrubs, grass, or ground cover, except for those areas that are mulched.	-	Meets Require
8.810.C. Parking Lot Landscape Islands	Tree planting areas shall be no less than ten feet in width. No tree shall be located less than four feet from the back of curb. All parking lot landscape islands, strips or other planting areas shall be curbed with minimum sixinch high curbs of the type required by this chapter or other regulations for parking areas.		Meets Require
8.820.C.1. Parking Lot Screening, if required - NW View High Parkway	Planted only. A hedge consisting of at least 12 shrubs per 40 linear feet that will spread into a continuous visual screen within two growing seasons. Shrubs must be at least 18 inches tall at the time of planting and be of a species that will normally grow to at least two and one-half feet in height at maturity and be suitable for the parking lot application.	831 linear feet ÷ 40 x 12 = 252 shrubs required	252 shrubs
8.820.C.1. Parking Lot Screening, if required - I-470		456 linear feet ÷ 40 x 12 = 317 shrubs required	137 shrubs

MIX OF SHRUBS, GRASSES, &

PERENNIALS

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www.land3studio.com

MO Certificate of Authority # 000133

LANDSCAPE ARCHITECTURE

MO Certificate of Authority # 2008001860

Hoerr Schaudt Landscape Architects

MO Certificate of Authority #2019004088

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www.hoerrschaudt.com

MEP ENGINEERING

8345 Lenexa Drive Lenexa, KS 66214

ARCHITECTURE

913.742.5000

816.510.0438

PROJECT:

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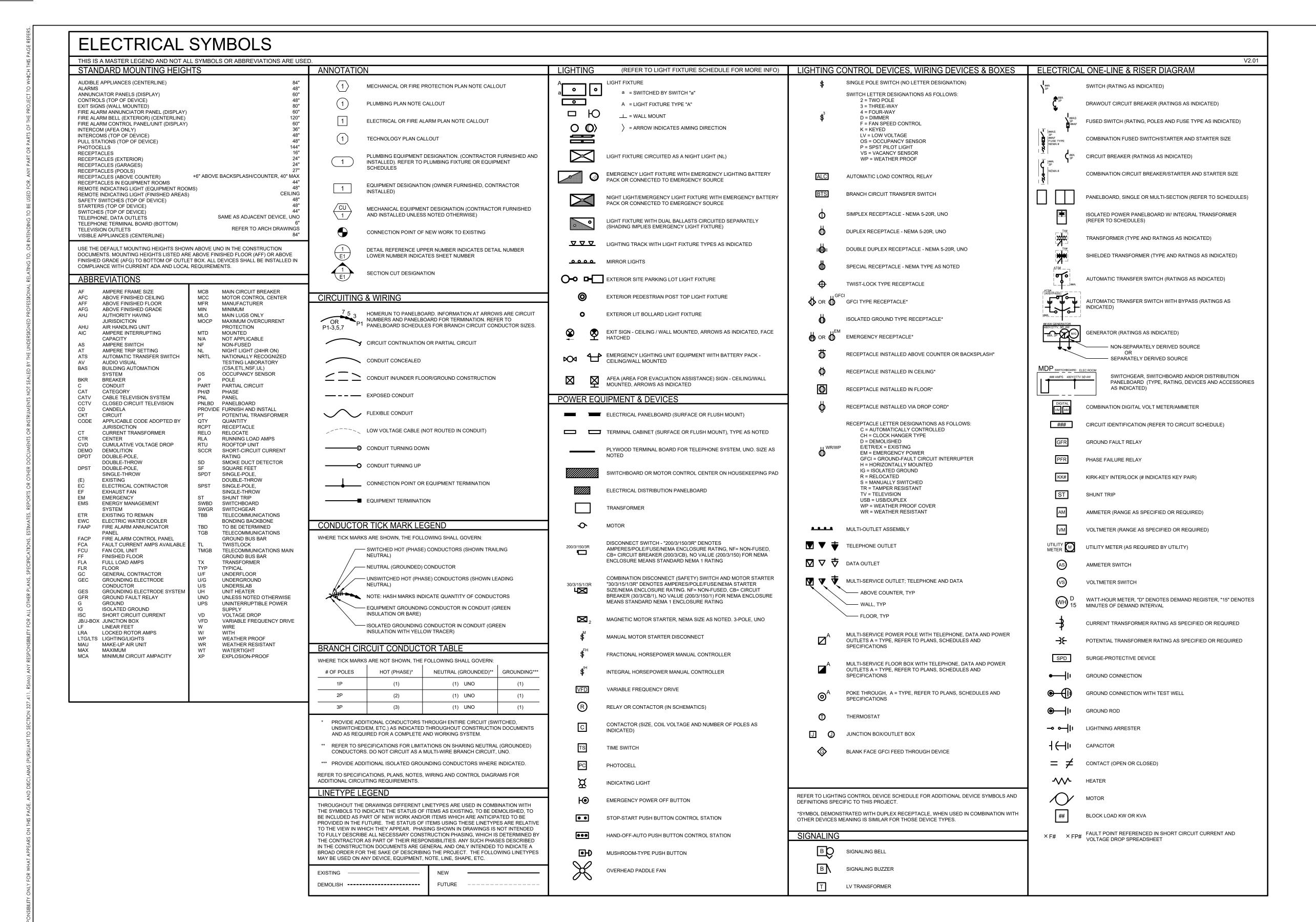
LANDSCAPE PLAN

SCALE: 1"=50'-0" JOB NO: 1249 DATE: 11.04.2020 DRAWN BY: TB / AR

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LANDSCAPE PLAN

0'-1" = 50'-0"



HENDERSON ENGINEERS

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1850004412
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31 NW View High Dr, Lee's Summit, MO 64

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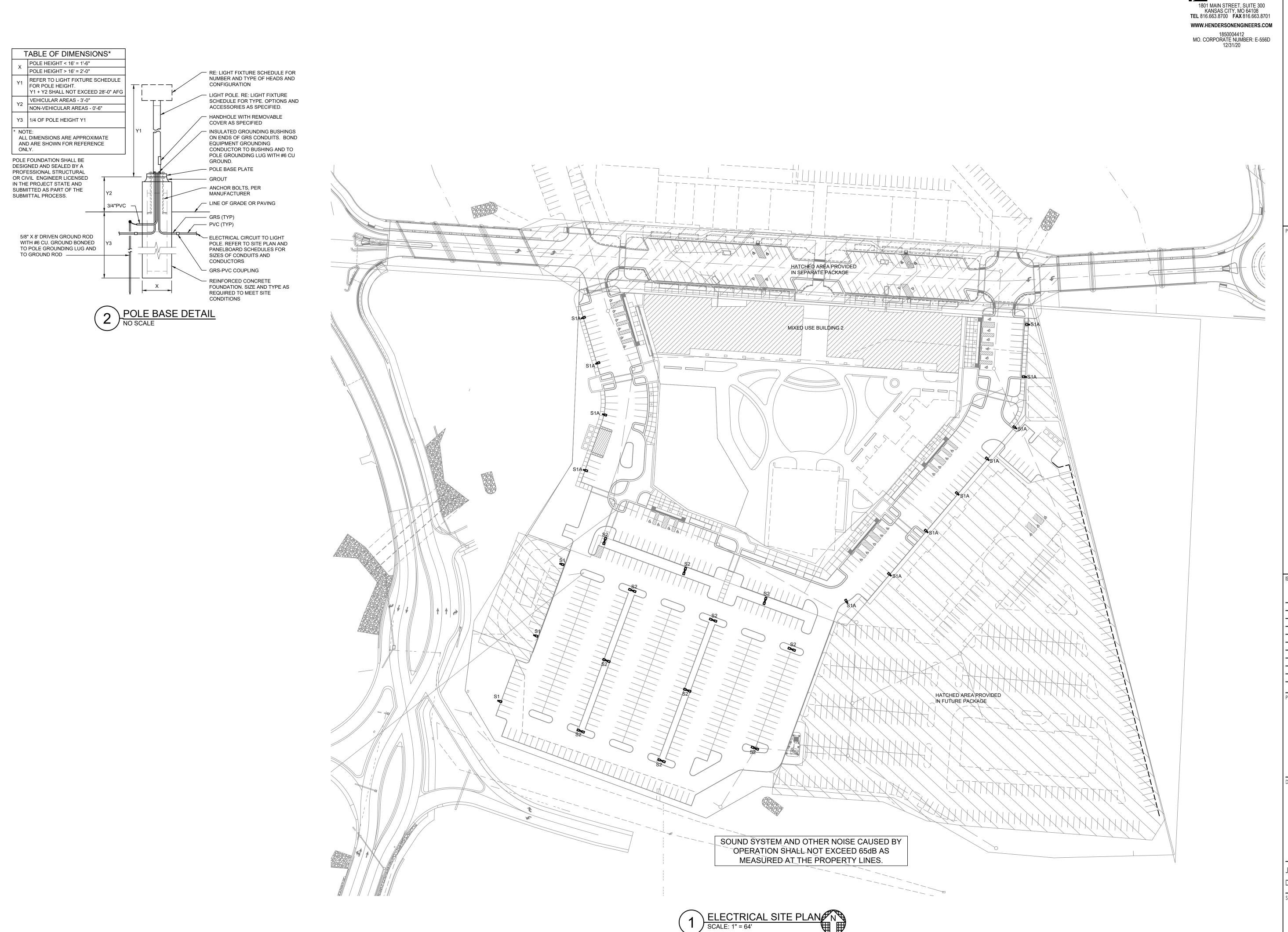
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LIGHTING SYMBOLS AND LEGENDS

JOB NO: 1249 SCALE:

DATE: 11.04.2020 DRAWN BY:MAP

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LIGHTING PLAN

JOB NO: 1249 SCALE:

DATE: 11.04.2020 DRAWN BY:MAP

E100

Luminaire S	Schedule					
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
•	11	S2	BACK-BACK	N.A.	0.720	GLNA-AF-03-LED-E1-T4W
•	3	S1	SINGLE	N.A.	0.720	GLNA-AF-03-LED-E1-T4W
•	12	S1A (PEDESTRIAN)	SINGLE	N.A.	0.720	GLNA-AF-01-LED-E1-T2
•	12	S1A (STREET/PARKING)	SINGLE	N.A.	0.720	GLNA-AF-03-LED-E1-T4FT

Avg/Min

4.60

N.A.

Max/Min

13.75

N.A.

N.A.

HENDERSON ENGINEERS 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108 TEL 816.663.8700 FAX 816.663.8701 WWW.HENDERSONENGINEERS.COM 1850004412 MO. CORPORATE NUMBER: E-556D

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PHOTOMETRIC PLAN

JOB NO: 1249 SCALE:

DATE: 11.04.2020 DRAWN BY:MAP

TYPE	MANUFACTURER/MODEL #		LAMPS		INPUT	INPUT	DESCRIPTION
		NO.	TYPE	VOLT	WATTS	VA	
<u>\$</u> 1	MCGRAW-EDISON GLNA-AF-03-LED-T4W-BK W/KWINDUSTRIES RAP-25-6.0-X-BLK-DM10	-	LED BY MANUFACTURER 4000K, 70 CRI 17,984 LUMENS 400,000 HRS B2-UO-G2	480	166	166	LED PARKING LOT FIXTURE. PROVIDE WITH 25' ROUND ALUMINUM POLE ON 3' BASE.
S1A	MCGRAW-EDISON GLNA-AF-03-LED-T4FT-BK	-	LED BY MANUFACTURER 4000K, 70 CRI 18,220 400,000 HRS B2-UO-G2	480	166	166	LED PARKING LOT FIXTURE. PROVIDE WITH 25' ROUND TAPERED CURVED ALUMINUM POLE ON 3' BASE. LOWER LUMEN OUTPUT LIGHT FIXTURE MOUNTED ON OPPOSITE SIDE AT +10' FROM BASE OF POLE. HIGHER LUMEN OUTPUT LIGHT FIXTURE MOUNTED AT TOP OF POLE.
	GLNA-AF-01-LED-T2-BK W/ VALMONT IDYLINE CURVES c5-03-DCG-DCG-DCG		4,015 LUMENS B1-U0-G1	480	34	34	
\$2	MCGRAW-EDISON (2) GLNA-AF-03-LED-480-T4W-BK W/ KW INDUSTRIES RAP-25-6.0-X-BLK-DM2180	-	LED BY MANUFACTURER 4000K, 70 CRI 35,968 LUMENS 40,000 HRS B2-UO-G2	480	332	332	LED PARKING LOT FIXTURE. PROVIDE (2) HEADS PER POLE AT 180 DEGREES. PROVIDE WITH 25' ROUND ALUMINUM POLE ON 3' BASE.

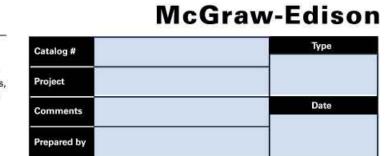
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Illuminance

Illuminance

Illuminance

DESCRIPTION The Galleonaire LED luminaire features advanced thermally conductive polymer heatsinks and open frame endcaps for a sleek aesthetic with significant weight reduction. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.



SPECIFICATION FEATURES

Calculation Summary

Property Line East

Property Line West

Label

Parking Lots

Construction Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Open frame die-cast aluminum end caps provide structural support for the housing and heatsinks. Thermally conductive polymer heatsinks offer significant weight reduction while fully maintaining thermal management of the Light Squares, 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into

electrical chamber. Housing is IP66 Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution, maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI.

Optional 2700K, 3000K, 5000K

COOPER

module designed to withstand 10kV of transient line surge. The Galleonaire LED luminaire is suitable for environments. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 1A drive current and optional 600mA and 800mA drive currents (nominal).

Electrical

LED drivers are mounted to

removable tray assembly for ease

347V 60Hz or 480V 60Hz operation.

480V Wye systems only. Standard

480V is compatible for use with

with 0-10V dimming. Shipped

standard with Cooper Lighting

Solutions proprietary circuit

Mounting STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall

directly to the pole. Quick mount of maintenance. 120-277V 50/60Hz, arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knockoperation in -40°C to 40°C ambient out enables round pole mounting.

mount bracket option. QUICK

MOUNT ARM: Adapter is bolted

Housing finished in super durable 60,000 hours. Available in standard TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is dark gray, non-paintable. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty Five-year warranty.



Units

Fc

Fc

Avg

1.84

Max

GALLEONAIRE 1-10 Light Squares

AREA/SITE LUMINAIRE

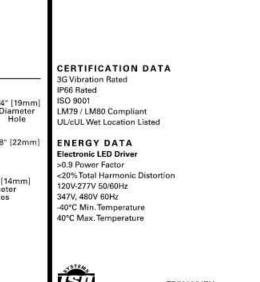
Solid State LED

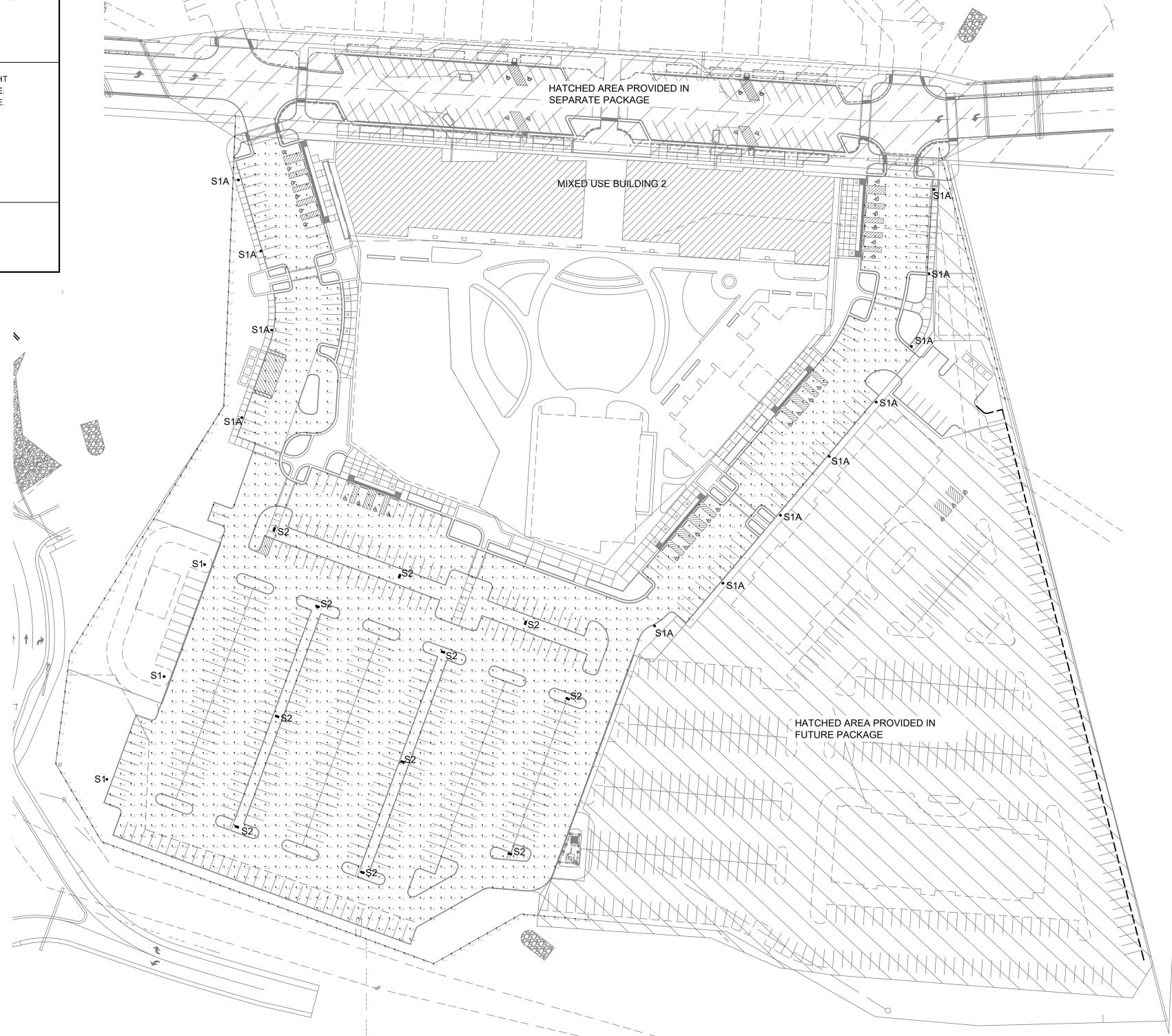
WaveLinx

ENSIONS	_		1(00) 2000
3-15/16 (100mm		7	
*A"	21-3/4" [553mm]	"B"-	

Number of ight Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	28 (12.7 kgs)	0.72
-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	38 (16.3 kgs)	0.77
1-8	27-5/8* (702mm)	7" (178mm)	13" (330mm)	43 (19.5 kgs)	0.95
-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	49 (22.2 kgs)	1.13

7/8" [22mm 1-3/4" [44mm]





ELECTRICAL PHOTOMETRIC PLAN N