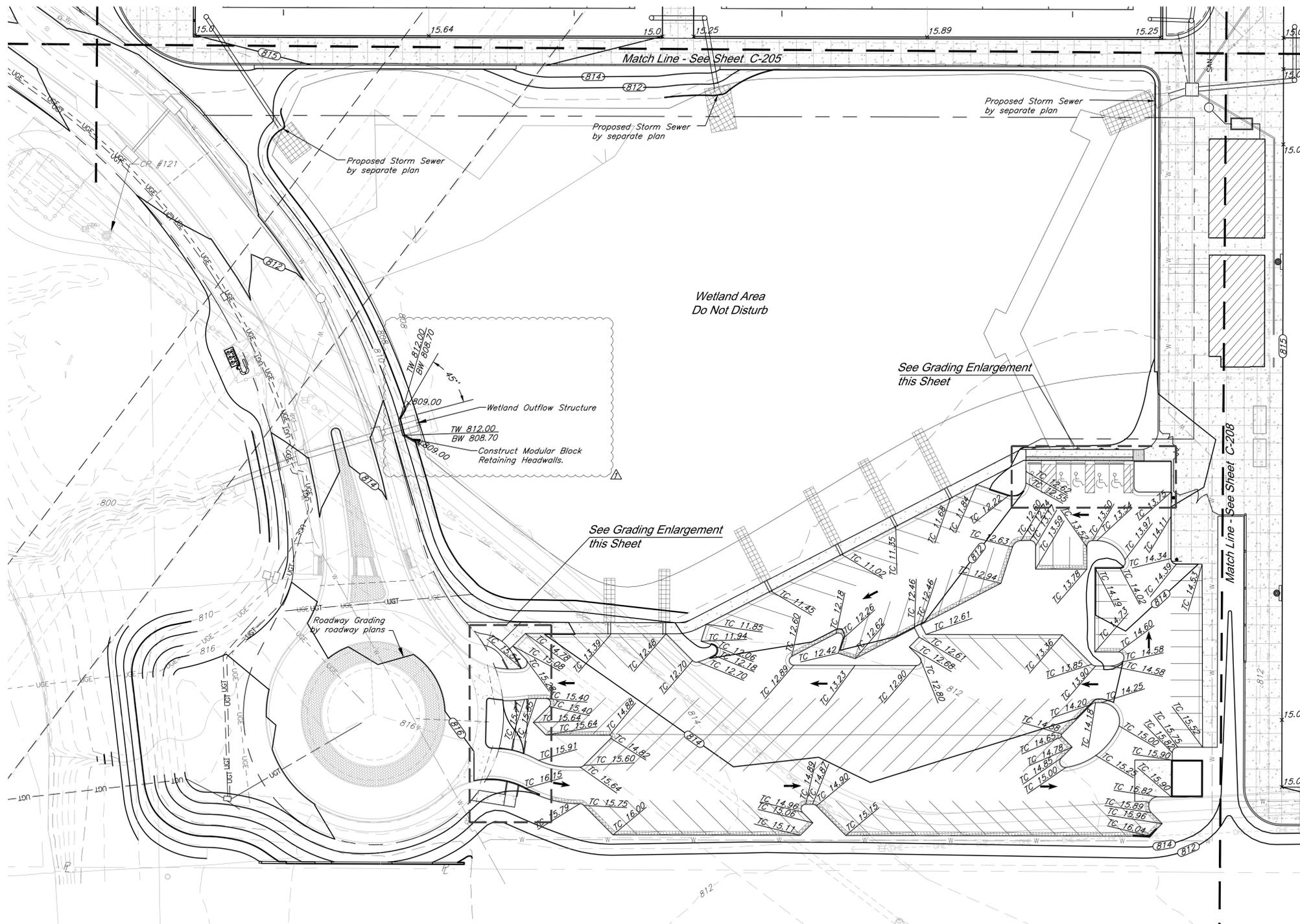
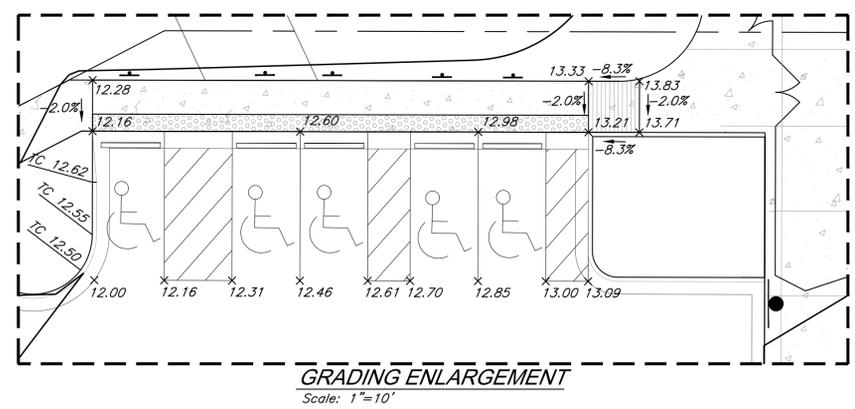
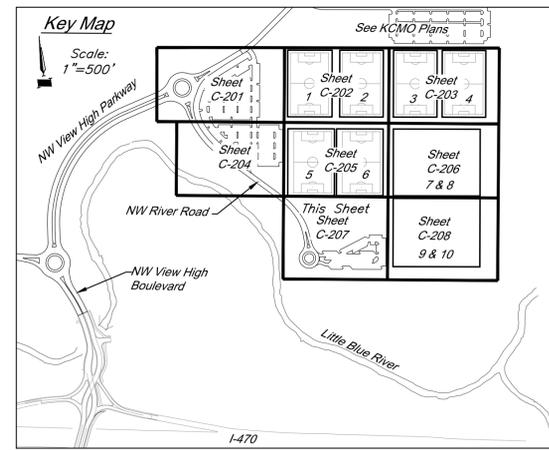
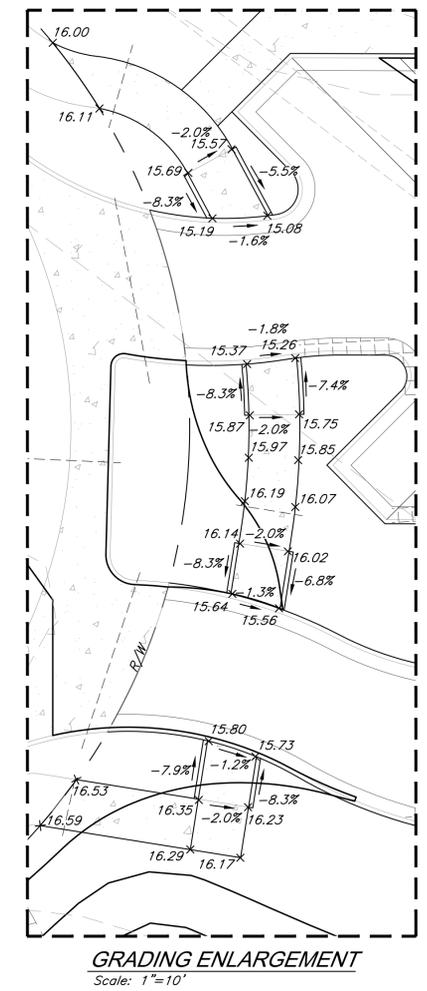


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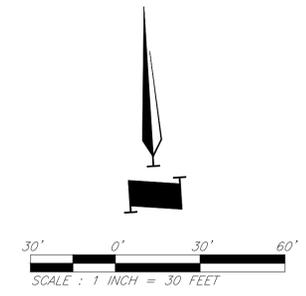
- Notes:**
1. TW and BW elevations noted on plans are to the top of the wall and to the surface grade at the base of wall. Any additional depth of wall required for structural purposes is the responsibility of the structural Engineer designing the wall.
 2. All ADA accessible parking spaces are to be constructed at 2.0% maximum slope in any direction. ADA accessible routes shall be constructed with 2.0% maximum cross slope and a maximum 5.0% longitudinal slope.
 3. All earthwork shall adhere to the Geotechnical Report.
 4. All walls over 30 inches in height will be provided with a railing or fence.
 5. Cross slopes in sidewalk areas shall not exceed 2%.



LEGEND

	Existing Contour		Drainage Flow Arrow
	Proposed Contour		Drainage Swale
	Proposed Spot Grade		Proposed Top of Wall/ Bottom of Wall
	Proposed Top of Curb Grade		Type CC-1 "Dry Curb"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/20/2020



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

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PROJECT:
Paragon Star Soccer Complex
Soccer Complex & Associated Improvements
1401 NW View High Dr, Lee's Summit, MO 64081
Final Development Plan - RESUBMITTAL

ISSUE:

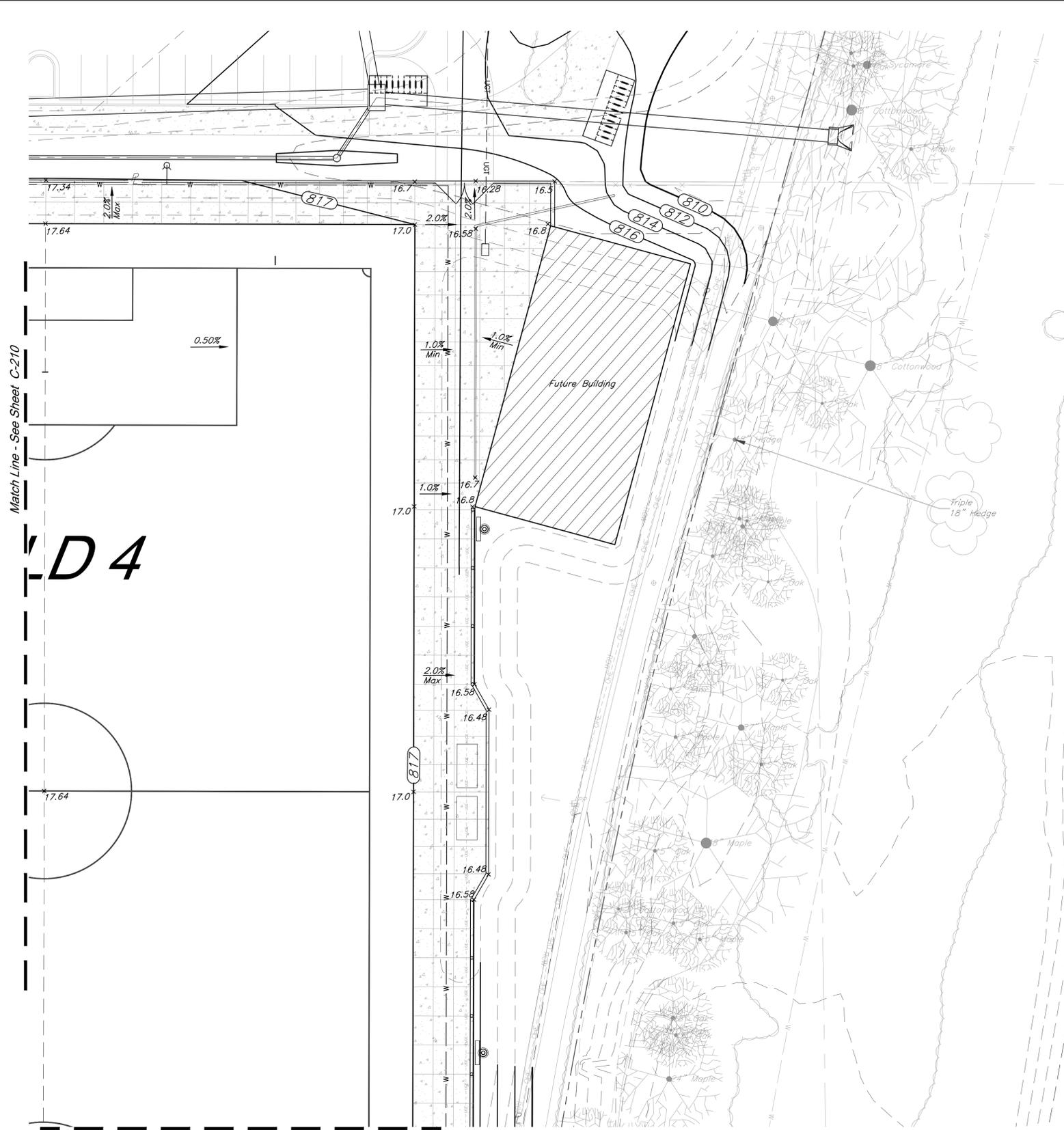


DRAWING TITLE:
Grading Plan

JOB NO: 1197 SCALE:
DATE: 11.04.2020 DRAWN BY: JMS/KJK

SHEET NO:
C-207

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Match Line - See Sheet C-210

D 4

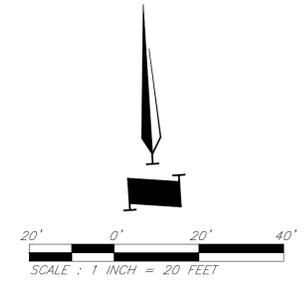
Match Line - See Sheet C-214

LEGEND

- Existing Contour
- Proposed Contour
- Proposed Spot Grade
- Drainage Flow Arrow
- Drainage Swale

Notes:

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RELEASE FOR
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LEE'S SUMMIT, MISSOURI
11/20/2020

PROJECT BENCHMARK:

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

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PROJECT:

Paragon Star Soccer Complex

Soccer Complex & Associated Improvements
1401 NW View High Dr, Lee's Summit, MO 64081

Final Development Plan - RESUBMITTAL

ISSUE:



DRAWING TITLE:

Grading
Enlargement

JOB NO: 1197 SCALE:

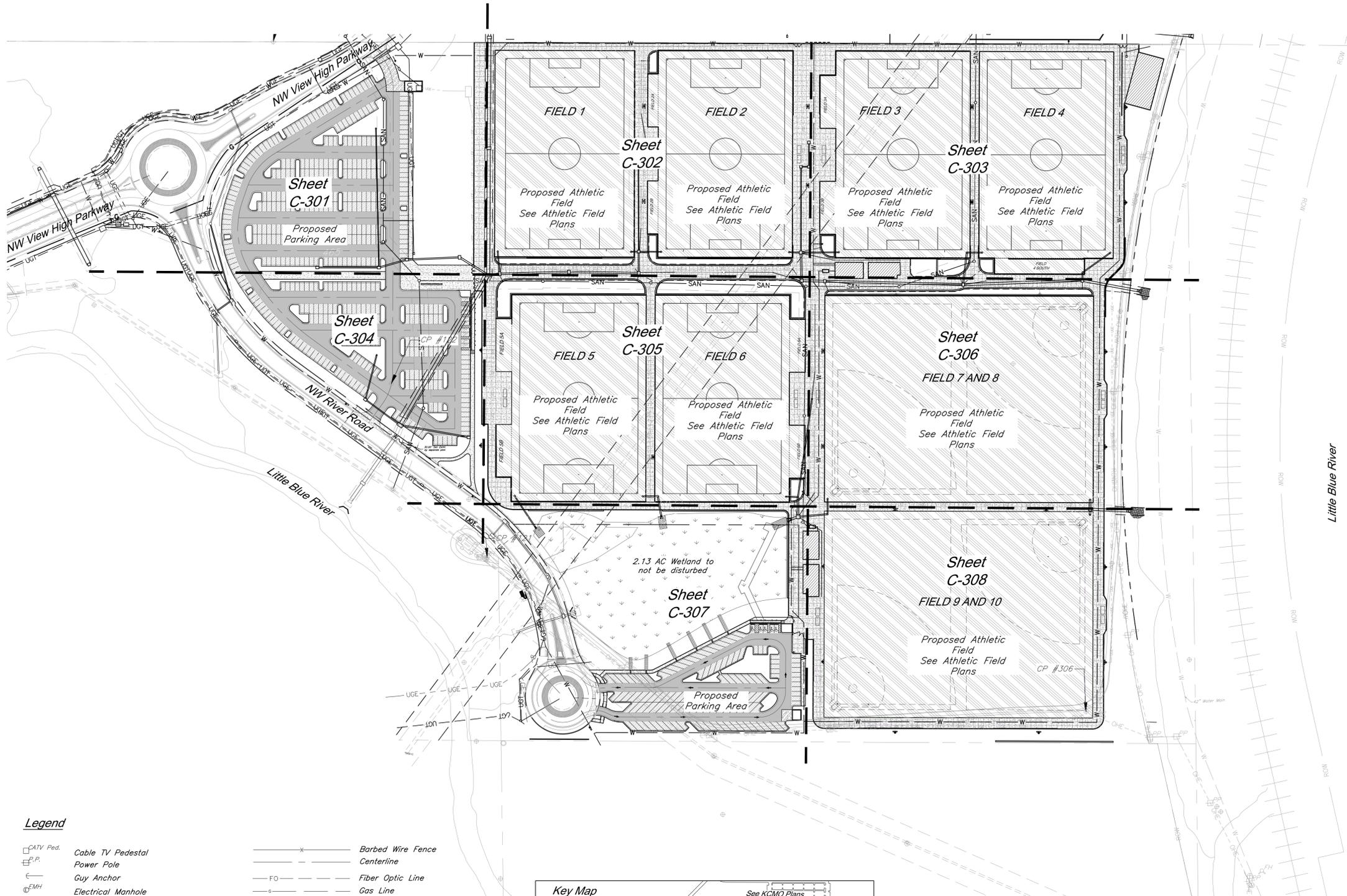
DATE: 11.04.2020 DRAWN BY: JMS/JKN

SHEET NO:

C-211

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



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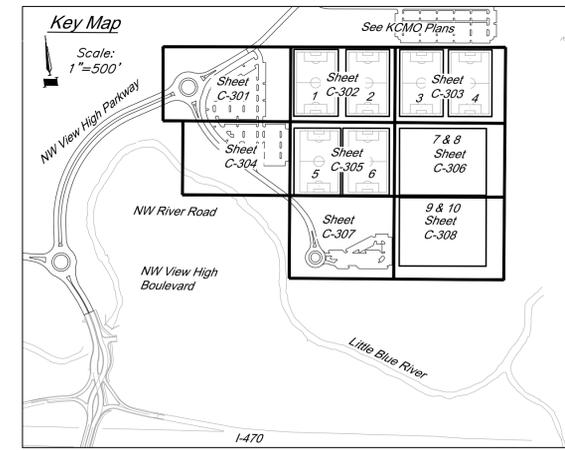
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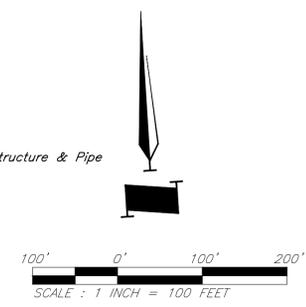
RELEASE FOR
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 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/20/2020

- Legend**
- CATV Ped. Cable TV Pedestal
 - P.P. Power Pole
 - Guy Anchor
 - ⊕ FMH Electrical Manhole
 - ⊕ E.M. Electric Meter
 - ⊕ E.T. Electrical Transformer
 - ⊕ E.P. Electric Pedestal
 - ⊕ P.P./T.P. Power Pole/Telephone Pole
 - ⊕ P.P./L.P. Power Pole/Light Pole
 - Bollard/Guard Post
 - ⊕ G.M. Existing Gas Meter
 - ⊕ G.V. Existing Gas Valve
 - Existing Curb Inlet
 - ⊕ Existing Light Pole
 - ⊕ Existing Yard Light
 - ⊕ Existing Sign
 - ⊕ Existing Telephone Manhole
 - ⊕ Existing Telephone Pedestal
 - ⊕ Existing Telephone Pole
 - ⊕ S.C.B. Existing Traffic Signal Controller Box
 - ⊕ F.H. Existing Fire Hydrant
 - ⊕ W.M. Existing Water Meter

- X — Barbed Wire Fence
- Centerline
- FO — Fiber Optic Line
- Gas Line
- Guard Rail
- OHE — Over Head Electric
- OHT — Over Head Telephone
- OHTV — Over Head Cable TV
- Property Line
- R/W — Right-of-Way Line
- Sanitary Sewer Line
- Stream
- Tree Line
- UGE — Underground Electric
- UGT — Underground Telephone
- UGTV — Underground Cable TV
- W — Water Line
- Proposed Storm Sewers
- Existing Storm Sewers
- Phase 1
- Phase 2



- LEGEND**
- Proposed Concrete Pavement
 - Proposed HD Asphalt Surface
 - Proposed LD Asphalt Surface
 - Jurisdictional Wetland Area Do Not Disturb
 - Artificial Turf Area See Athletic Field Plans
 - Proposed Water Line
 - Proposed Storm Sewer
 - Existing Storm Sewer Structure & Pipe
 - Existing Sanitary Sewer



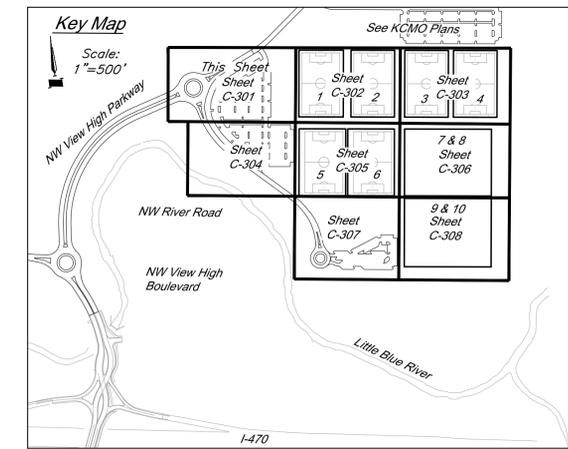
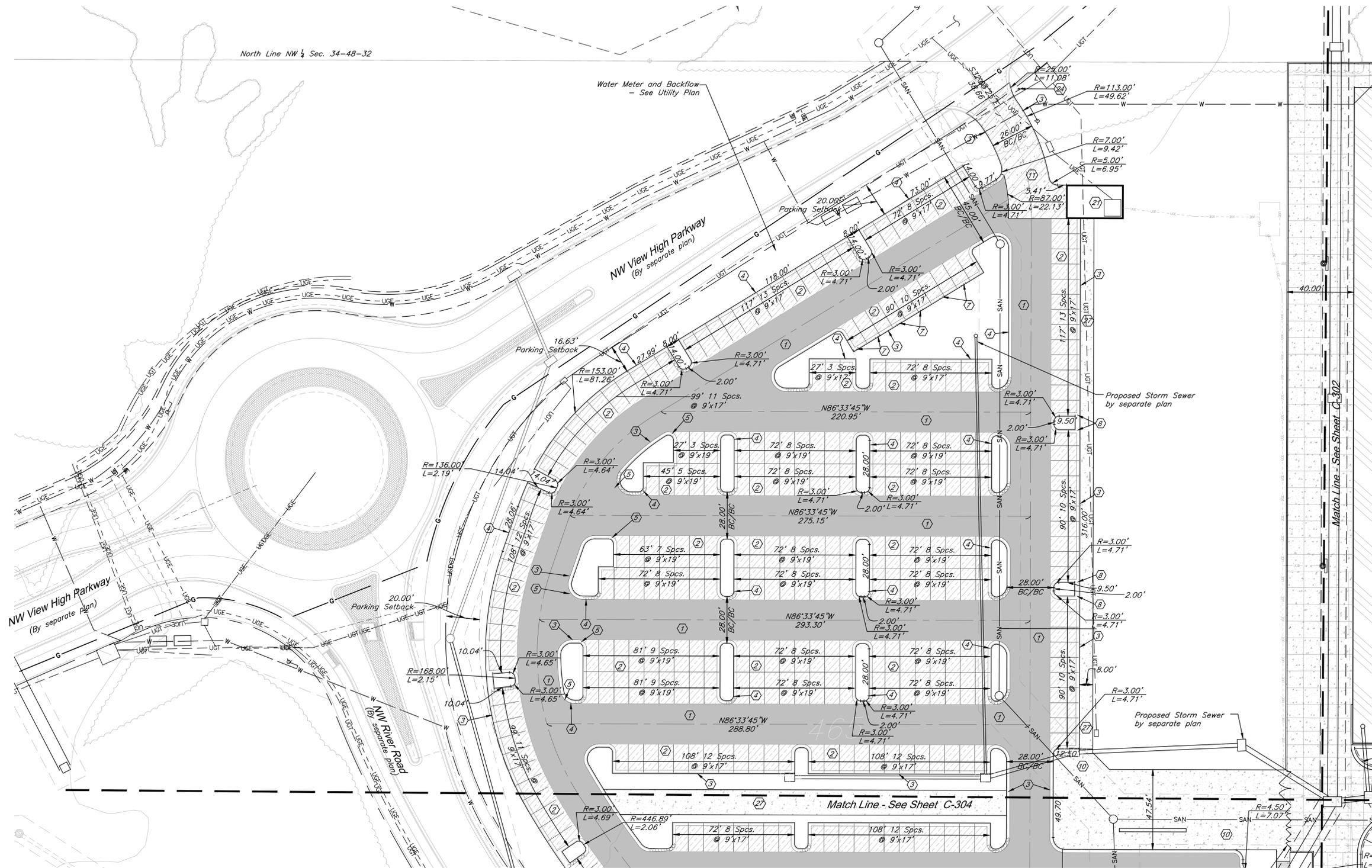
DRAWING TITLE:
Dimension Plan

JOB NO: 1197 SCALE:
 DATE: 11.04.2020 DRAWN BY: JMS/JKNJ

SHEET NO:
C-300

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North Line NW 1/4 Sec. 34-48-32



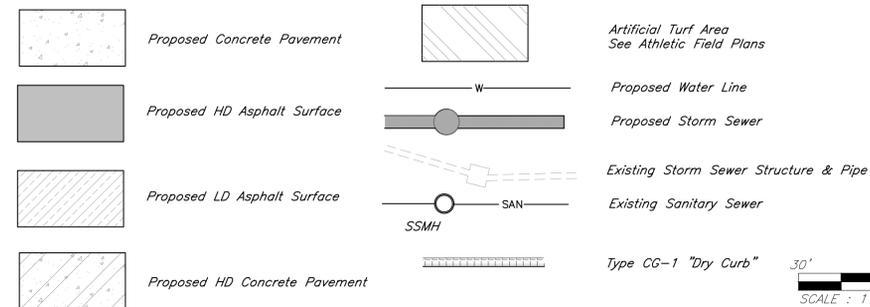
CONSTRUCTION NOTES:

- ① Construct HD Asphalt Pavement
- ② Construct LD Asphalt Pavement
- ③ Construct CG-1 Curb and Gutter
- ④ Construct CG-1 "Dry" Curb and Gutter
- ⑤ Transition Curb Types
- ⑦ Construct 3' Width Curb Cut at 15' O.C. See Construction Details.
- ⑧ Construct 2' Width Curb Cut and Conc. Flume. See Construction Details.
- ⑨ Construct 9" Conc. Pavement. See Construction Details.
- ⑩ Construct 6" Depth Conc. Sidewalk. See Construction Details.
- ⑪ Construct Heavy Duty Concrete Pavement. See Construction Details.
- ⑫ Construct Trash Enclosure per Architectural Plans
- ⑭ Construct Stop Sign and Stop Bar per construction details.
- ⑮ Construct 4" Depth Conc. Sidewalk. See Construction Details

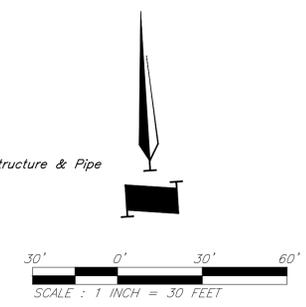
DIMENSION NOTES:

- 1. All curbs are to be Type CG-1 or Type CG-1 Dry unless shown otherwise.
- 2. All pavement and concrete shall be clearly sawcut to full depth prior to removal.
- 3. 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.
- 4. See sheets C-500-C-502 for construction details.

LEGEND



RELEASE FOR
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LEE'S SUMMIT, MISSOURI
11/20/2020



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PROJECT:

Paragon Star Soccer Complex

Soccer Complex & Associated Improvements
1401 NW View High Dr, Lee's Summit, MO 64081

Final Development Plan - RESUBMITTAL

ISSUE:

PROFESSIONAL SEAL:



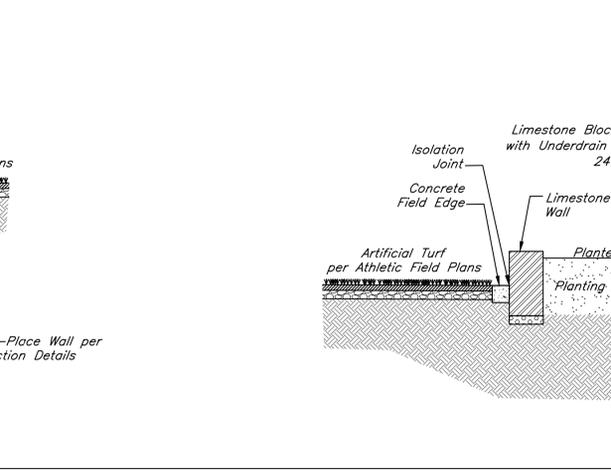
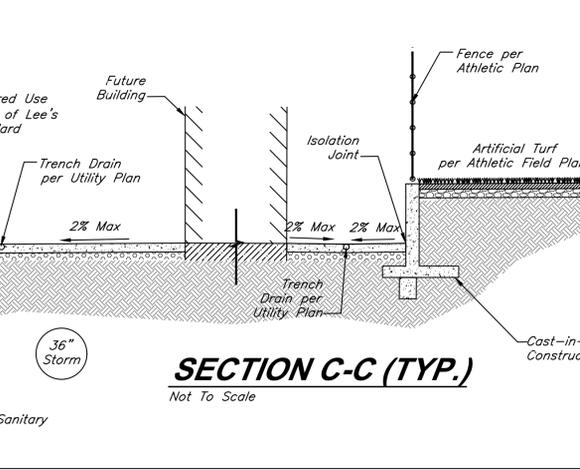
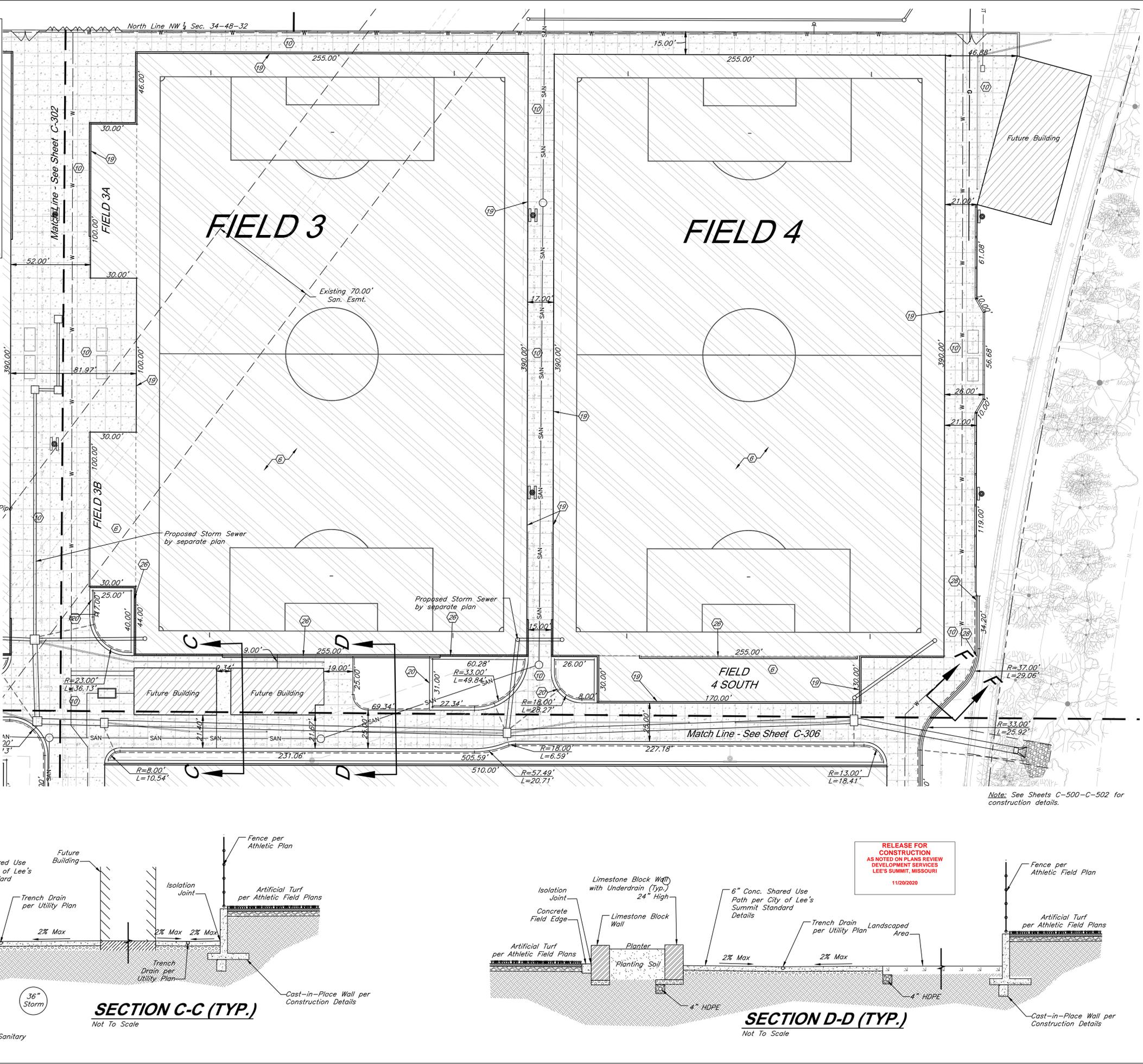
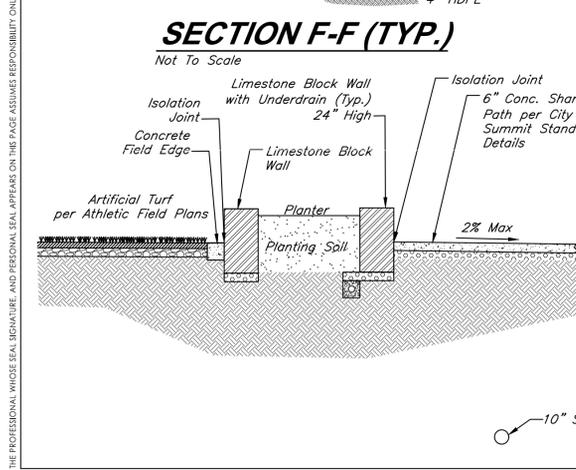
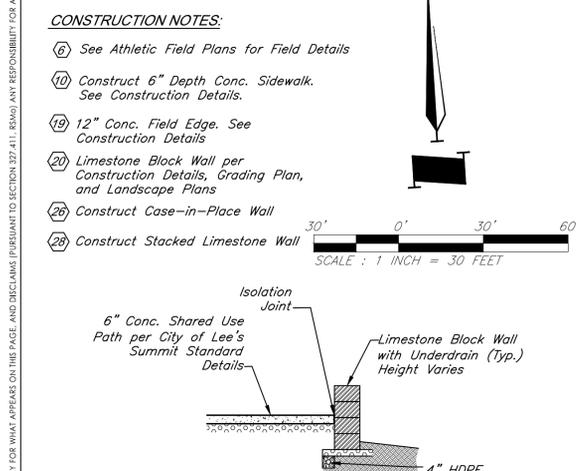
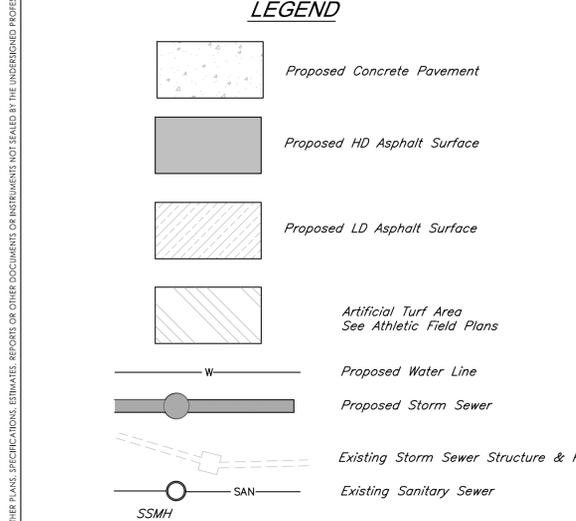
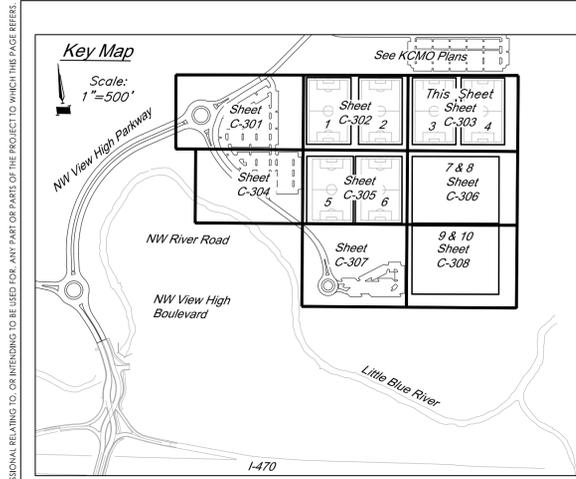
DRAWING TITLE:

Dimension Plan

JOB NO: 1197 SCALE:
DATE: 11.04.2020 DRAWN BY: JMS/KJK

SHEET NO:

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PROJECT:

Paragon Star Soccer Complex

Soccer Complex & Associated Improvements
1401 NW View High Dr, Lee's Summit, MO 64081

Final Development Plan - RESUBMITTAL

ISSUE:

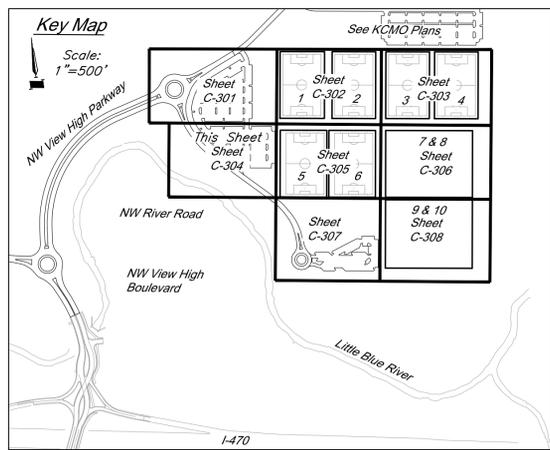
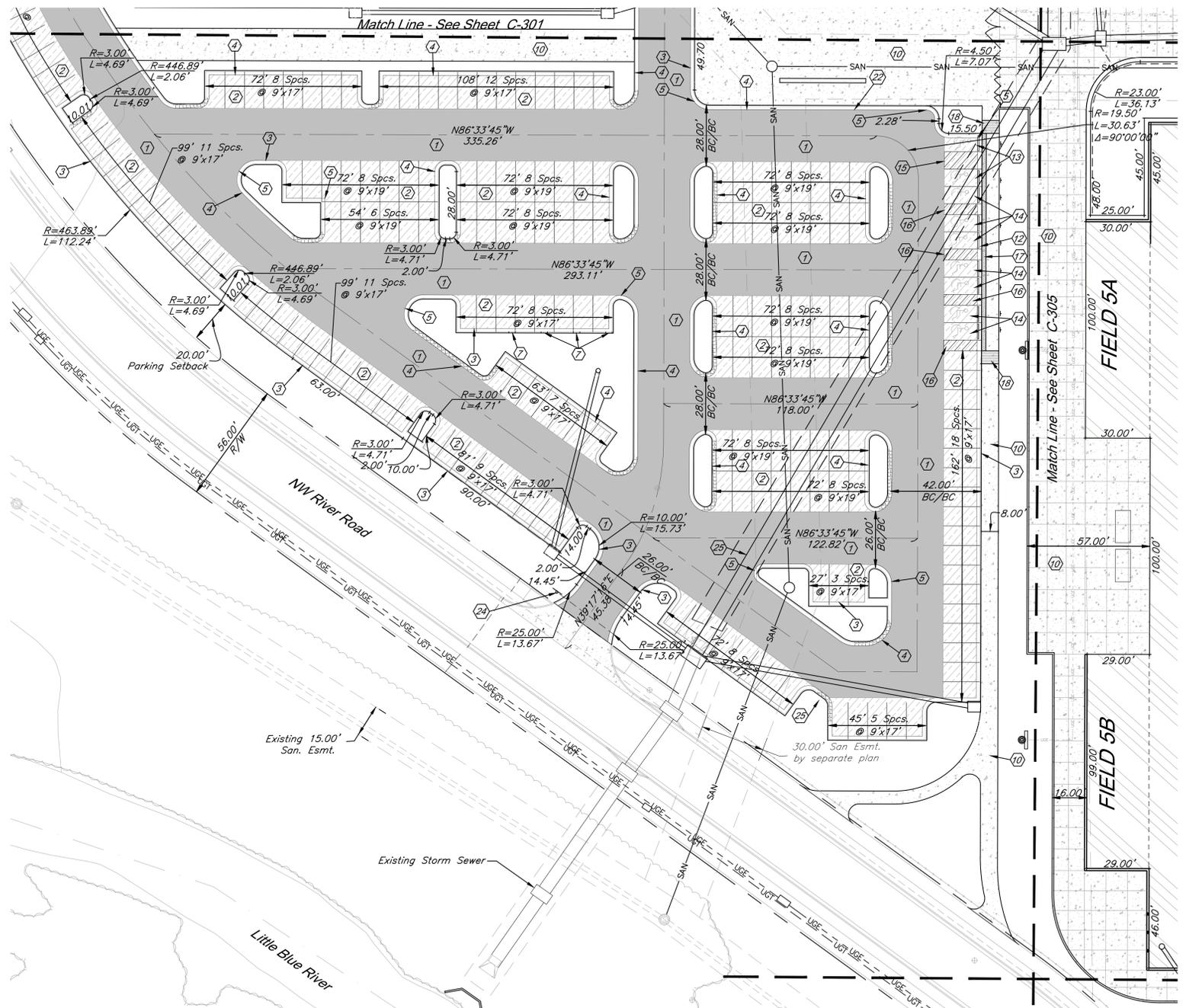


PROFESSIONAL SEAL:

DRAWING TITLE:
Dimension Plan

JOB NO: 1197 SCALE:
DATE: 11.04.2020 DRAWN BY: JMS/JKN
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CONSTRUCTION NOTES:

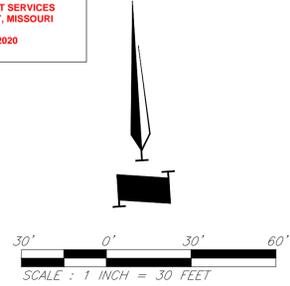
- 1 Construct HD Asphalt Pavement
- 2 Construct LD Asphalt Pavement
- 3 Construct CG-1 Curb and Gutter
- 4 Construct CG-1 "Dry" Curb and Gutter
- 5 Transition Curb Types
- 7 Construct 3' Width Curb Cut at 15' O.C. See Construction Details.
- 10 Construct 6" Depth Conc. Sidewalk. See Construction Details.
- 12 2' Width Flat Curb
- 13 Construct 8'x17' Van Accessible ADA Parking Space w/ stop block, signage, and pavement markings per construction details. Max cross slope=2%.
- 14 Construct 8'x17' ADA Accessible ADA Parking Space w/ stop block, signage, and pavement markings per construction details. Max cross slope=2%.
- 15 Construct 8'x17' ADA Access Aisle
- 16 Construct 5'x17' ADA Access Aisle
- 17 2' ADA Detectable Warning per construction details.
- 18 ADA Ramp
- 22 Construct Mountable Curb (Type CG-2)
- 24 Construct Stop Sign and Stop Bar per construction details.

- 25 Proposed Storm Sewer by separate plan

LEGEND

	Proposed Concrete Pavement		Artificial Turf Area See Athletic Field Plans
	Proposed HD Asphalt Surface		
	Proposed LD Asphalt Surface		
	Proposed Water Line		
	Proposed Storm Sewer		
	Existing Storm Sewer Structure & Pipe		
	Existing Sanitary Sewer		
	Type CG-1 "Dry" Curb"		

RELEASE FOR
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/20/2020



Note: See Sheets C-500-C-502 for construction details.

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PROJECT:

Paragon Star Soccer Complex

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Final Development Plan - RESUBMITTAL

ISSUE:

PROFESSIONAL SEAL:



DRAWING TITLE:

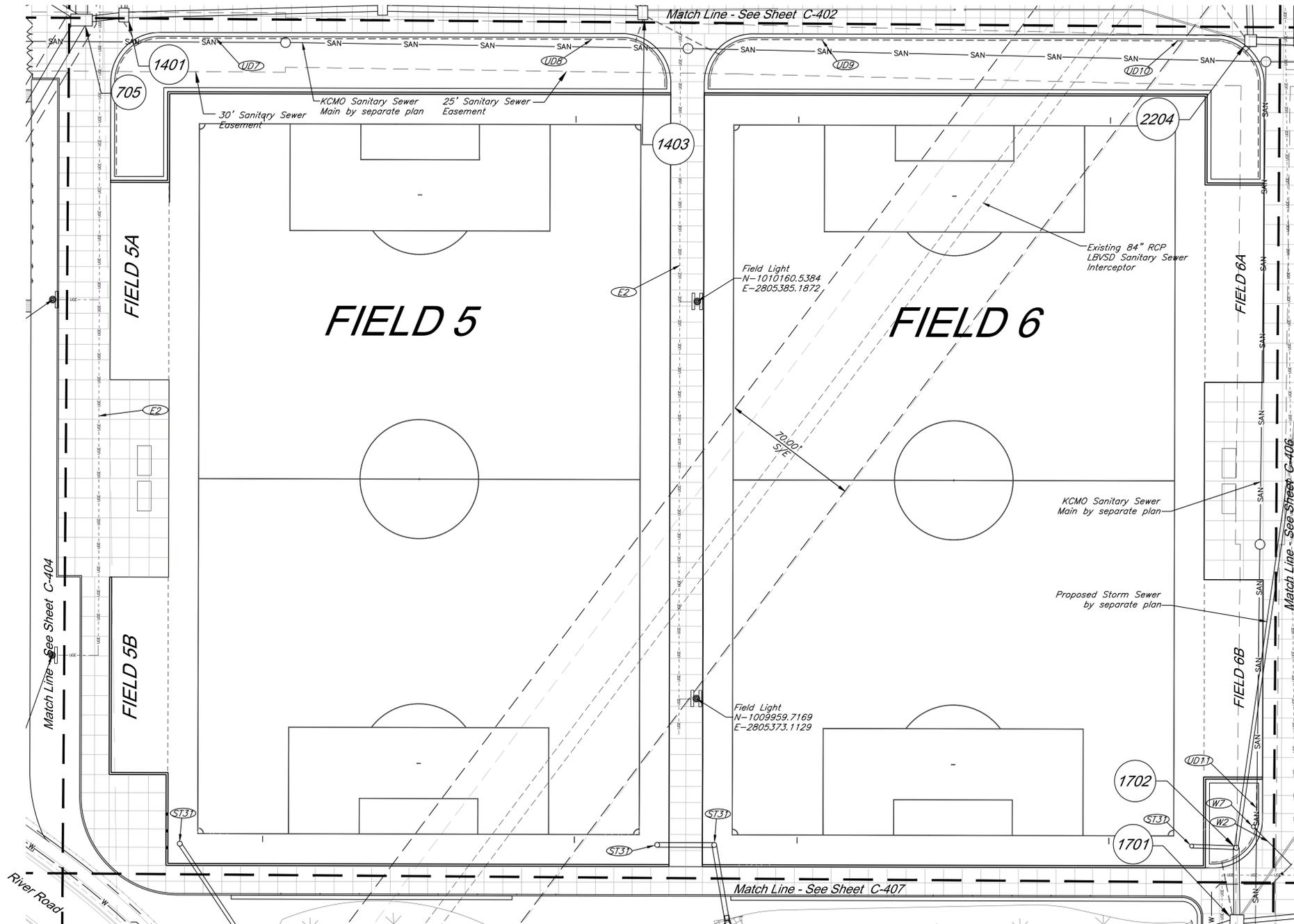
Dimension Plan

JOB NO: 1197 SCALE:
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SHEET NO:

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

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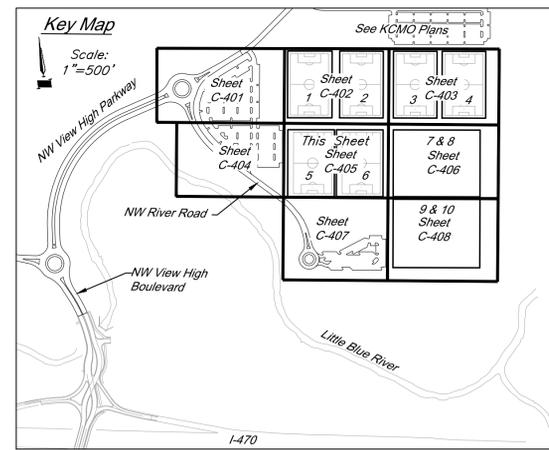
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PROJECT:
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Water Construction Notes:

- (W2) Furnish and Install 6" Class 52 DIP W/ Polywrap & Zinc Coating Water Line at 42" minimum cover.
- (W7) Install 6" Fire Hydrant Assembly. See Detail. Install Snake Pit Magnetized Tracer Box, color blue.

Storm Sewer Construction Notes:

- (ST3) See Athletic Field Plans for point of connection to playing field subdrainage

Underdrain Construction Notes:

- (UD7) Install 213 L.F. of 4" Perforated HDPE with tee. Install 13.34 L.F. of 4" PVC, connect to storm structure 1401. See Sht. C-502 for details.
- (UD8) Install 138 L.F. of 4" Perforated HDPE with tee. Install 11.73 L.F. of 4" PVC, connect to storm structure 1403. See Sht. C-502 for details.
- (UD9) Install 138 L.F. of 4" Perforated HDPE with tee. Install 41.58 L.F. of 4" PVC, connect to storm structure 1403. See Sht. C-502 for details.
- (UD10) Install 213 L.F. of 4" Perforated HDPE with tee. Install 4.21 L.F. of 4" PVC, connect to storm structure 2204. See Sht. C-502 for details.
- (UD11) Install 53 L.F. of 4" Perforated HDPE with tee. Install 27.59 L.F. of 4" PVC, connect to storm structure 1701. See Sht. C-502 for details.

Electrical Construction Notes:

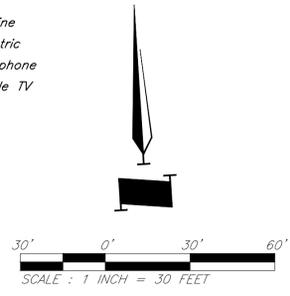
- (E2) Install 2" electrical conduit @ 41" min depth from final grade. Buried electric line tape @ 12" depth or per utility standard.

Utility Legend

⊠ CATV Ped	Existing Cable TV Pedestal	⊠ W.M.	Existing Water Meter
⊠ P.P.	Existing Power Pole	FO	Existing Fiber Optic Line
⊠ G	Existing Guy Anchor	FP	Existing Fire Protection Line
⊠ E.M.H.	Existing Electrical Manhole	G	Existing Gas Line
⊠ T.M.	Existing Electrical Transformer	OHE	Existing Over Head Electric
⊠ G.M.	Existing Gas Meter	OHT	Existing Over Head Telephone
⊠ C.I.	Existing Curb Inlet	OHTV	Existing Over Head Cable TV
⊠ S.M.H.	Existing Sanitary Sewer Manhole	— P —	Property Line
⊠ S.C.	Existing Sanitary Cleanout	ROW	Right-of-Way Line
⊠ L.P.	Existing Light Pole	SAN	Existing Sanitary Sewer Line
⊠ B.H.	Existing Boring Hole	— UGE —	Existing Underground Electric
⊠ S.	Existing Sign	UGT	Existing Underground Telephone
⊠ Tel. Ped	Existing Telephone Pedestal	UGTV	Existing Underground Cable TV
⊠ T.S.P.	Existing Traffic Signal Post	W	Existing Water Line
⊠ T.M.H.	Existing Traffic Manhole	— P.S.S. —	Proposed Storm Sewer
⊠ F.H.	Existing Fire Hydrant	— E.S.S. —	Existing Storm Sewer
		— UDR —	Underdrain

Notes:
 1. See MEP Plans for Field Lighting.

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/20/2020



ISSUE:



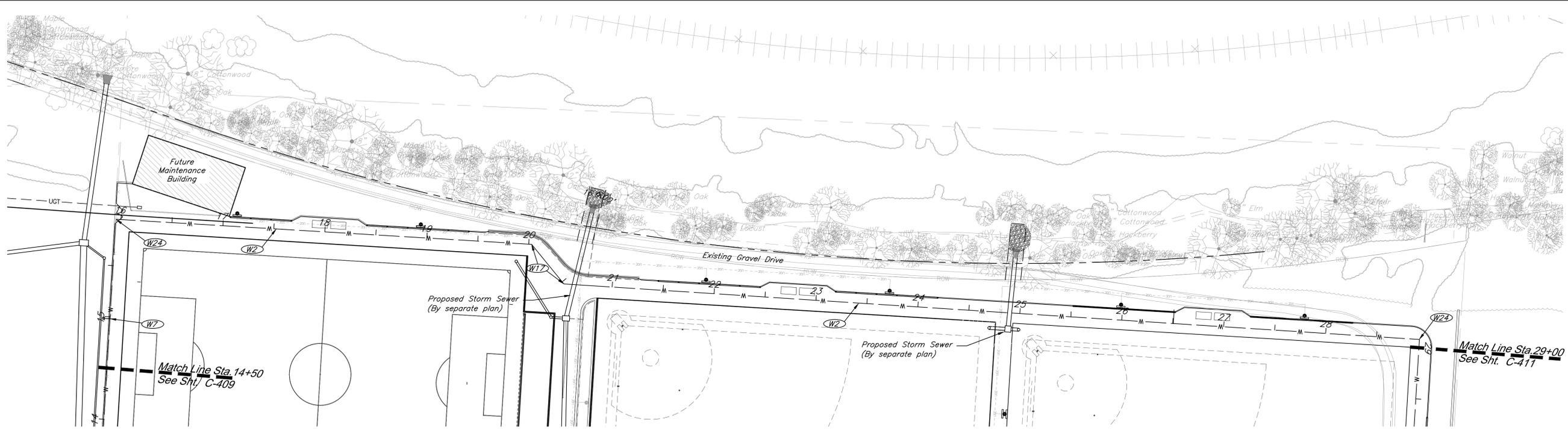
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Utility Plan

JOB NO: 1197 SCALE:
 DATE: 11.04.2020 DRAWN BY: JMS/KJK

SHEET NO:

C-405

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Utility Legend

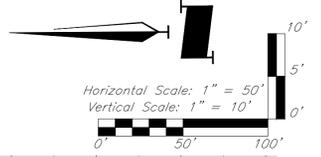
	Cable TV Pedestal		Water Meter
	Power Pole		Fiber Optic Line
	Guy Anchor		Fire Protection Line
	Electrical Manhole		Gas Line
	Electrical Transformer		Over Head Electric
	Gas Meter		Over Head Telephone
	Curb Inlet		Over Head Cable TV
	Sanitary Sewer Manhole		Property Line
	Sanitary Cleanout		Right-of-Way Line
	Light Pole		Existing Sanitary Sewer Line
	Boring Hole		Underground Electric
	Sign		Underground Telephone
	Telephone Pedestal		Underground Cable TV
	Traffic Signal Post		Water Line
	Traffic Manhole		Proposed Storm Sewer
	Fire Hydrant		Future Storm Sewer
			Proposed Sanitary Sewer Line

Water Construction Notes:

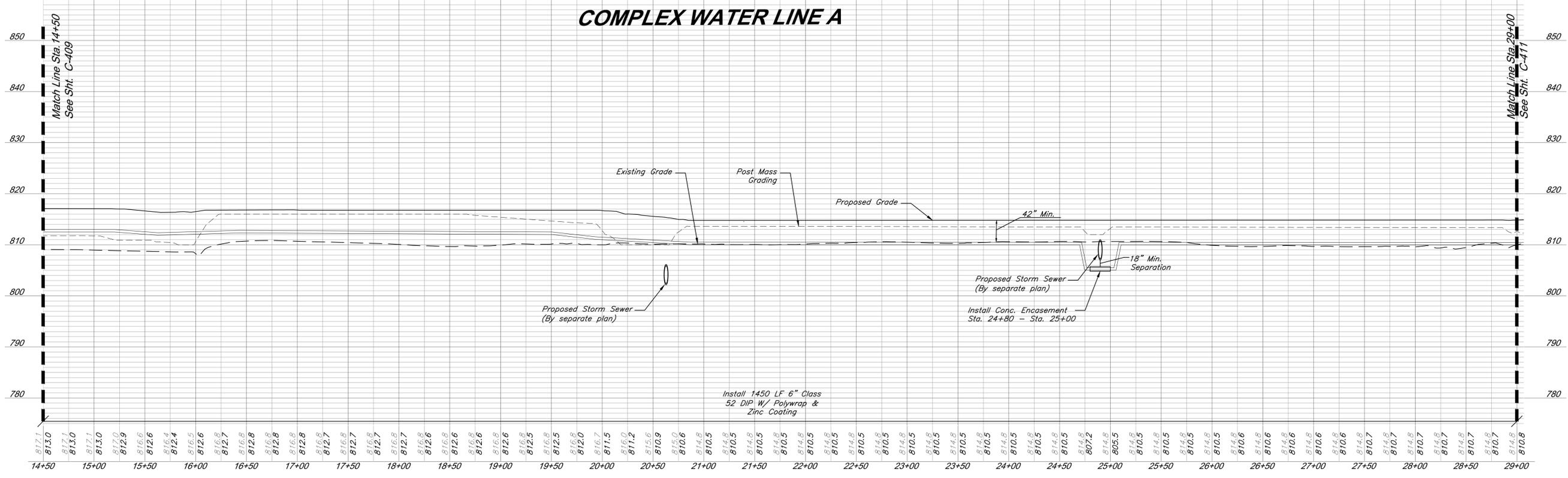
- W2** Furnish and Install 6" Class 52 DIP W/ Polywrap & Zinc Coating Water Line at 42" minimum cover.
- W7** Install 6" Fire Hydrant Assembly. See Detail.
- W17** Install 45° Bend W/ Thrust Block
- W24** Install 90° Bend W/ Thrust Block

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

RELEASE FOR CONSTRUCTION
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 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/20/2020



COMPLEX WATER LINE A



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PROJECT:

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 Soccer Complex & Associated Improvements
 1401 NW View High Dr, Lee's Summit, MO 64081
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DRAWING TITLE:

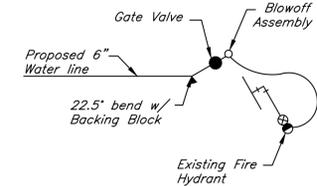
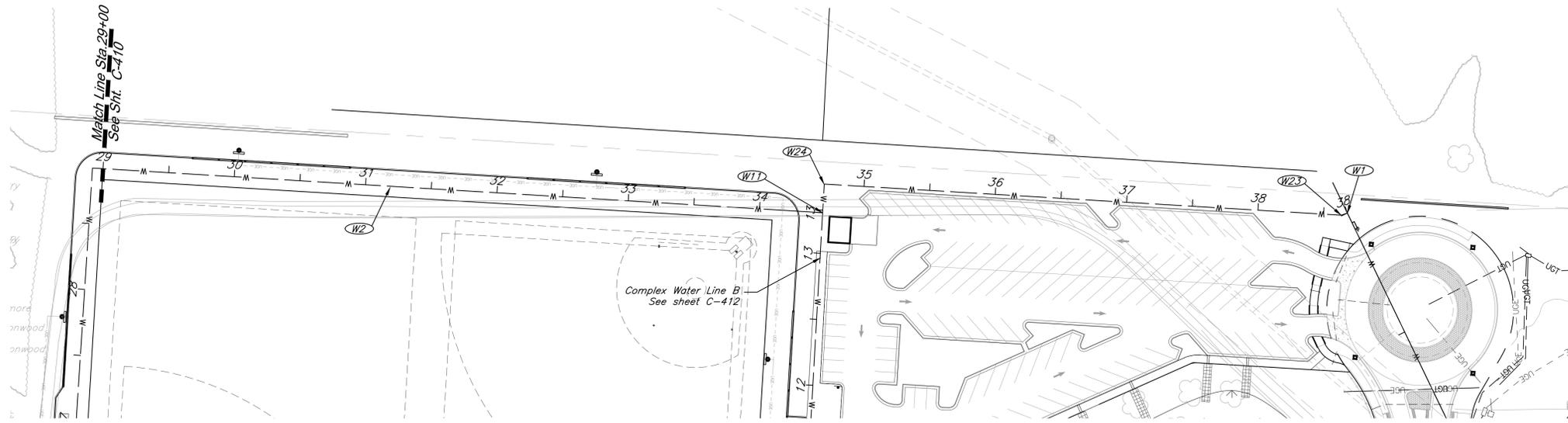
**Utility Plan
 Water Line A**

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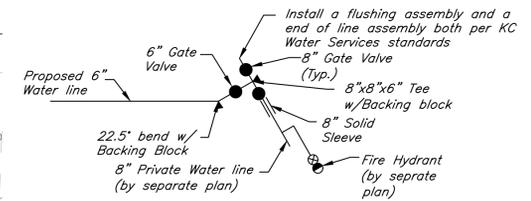
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Temporary Water Line Connection Detail
Restrain Throughout
Not To Scale



Permanent Water Line Connection Detail
Restrain Throughout
Not To Scale

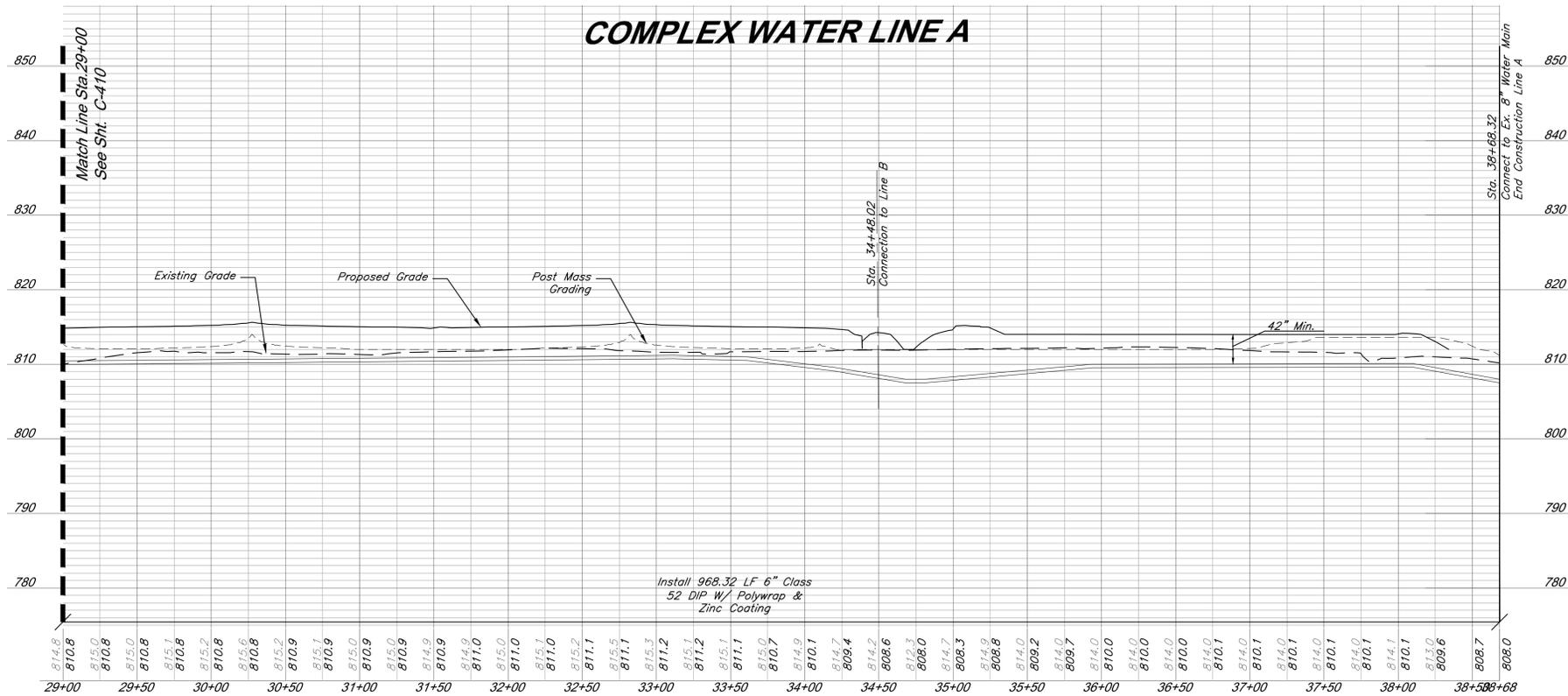
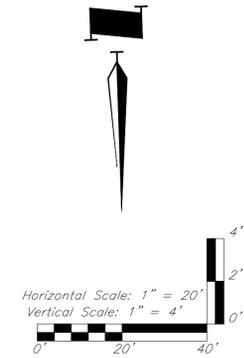
Utility Legend

Cable TV Pedestal	Water Meter
Power Pole	Fiber Optic Line
Guy Anchor	Fire Protection Line
Electrical Manhole	Gas Line
Electrical Transformer	Over Head Electric
Gas Meter	Over Head Telephone
Curb Inlet	Over Head Cable TV
Sanitary Sewer Manhole	Property Line
Sanitary Cleanout	Right-of-Way Line
Light Pole	Existing Sanitary Sewer Line
Boring Hole	Underground Electric
Sign	Underground Telephone
Telephone Pedestal	Underground Cable TV
Traffic Signal Post	Water Line
Traffic Manhole	Proposed Storm Sewer
Fire Hydrant	Future Storm Sewer
	Proposed Sanitary Sewer Line

Water Construction Notes:

- W1** Connect 6" DIP Water Line via 8"x8"x6" Tee. Construct Thrust Block. N-1009444.7027, E-2805231.0644
- W2** Furnish and Install 6" Class 52 DIP W/ Polywrap & Zinc Coating Water Line at 42" minimum cover.
- W21** Install 6"x6"x6" Tee
- W23** Install 22.5° Bend W/ Thrust Block.
- W24** Install 90° Bend W/ Thrust Block.

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ISSUE:

PROFESSIONAL SEAL:



DRAWING TITLE:

**Utility Plan
Water Line A**

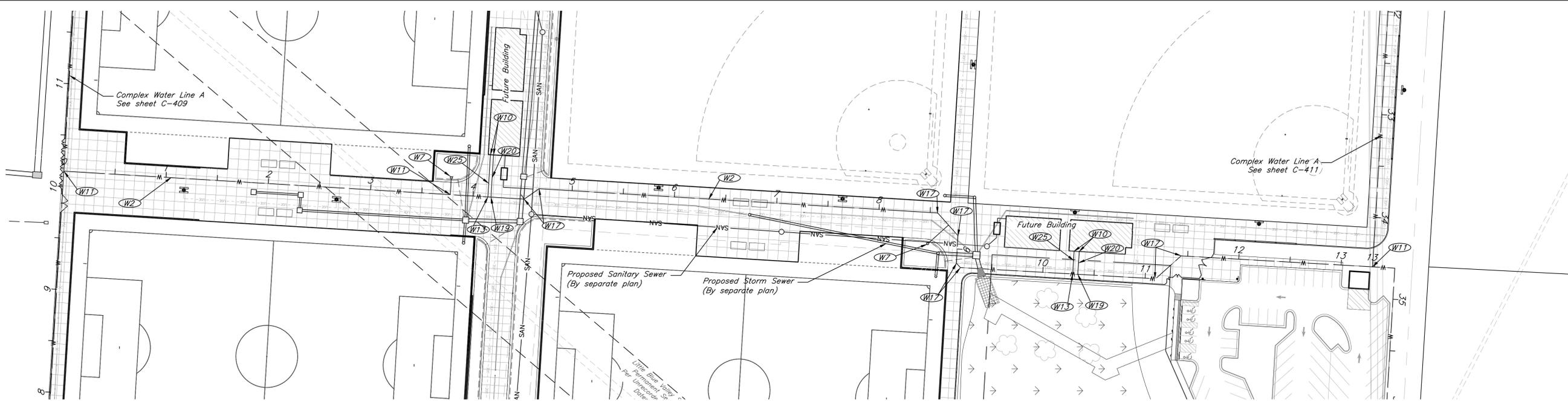
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Water Construction Notes:

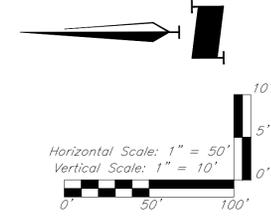
- (W2) Furnish and Install 6" Class 52 DIP W/ Polywrap & Zinc Coating Water Line at 42" minimum cover.
- (W7) Install 6" Fire Hydrant Assembly. See Detail.
- (W10) Connect Water Line to Building as per MEP.
- (W13) Install 6"x6"x4" Tee W/ Thrust Block
- (W17) Install 45" Bend W/ Thrust Block.
- (W19) Install 6"x6"x1.5" Tee w/ Thrust Block
- (W20) Furnish and Install 1.5" type K copper Water Line at 42" minimum cover. Line to include #12 AWG Copperhead Reinforced Trace Wire, color blue.
- (W25) Furnish and Install 4" Class 52 DIP W/ Polywrap & Zinc Coating. Fire Protection line at 42" minimum cover.

CAUTION!
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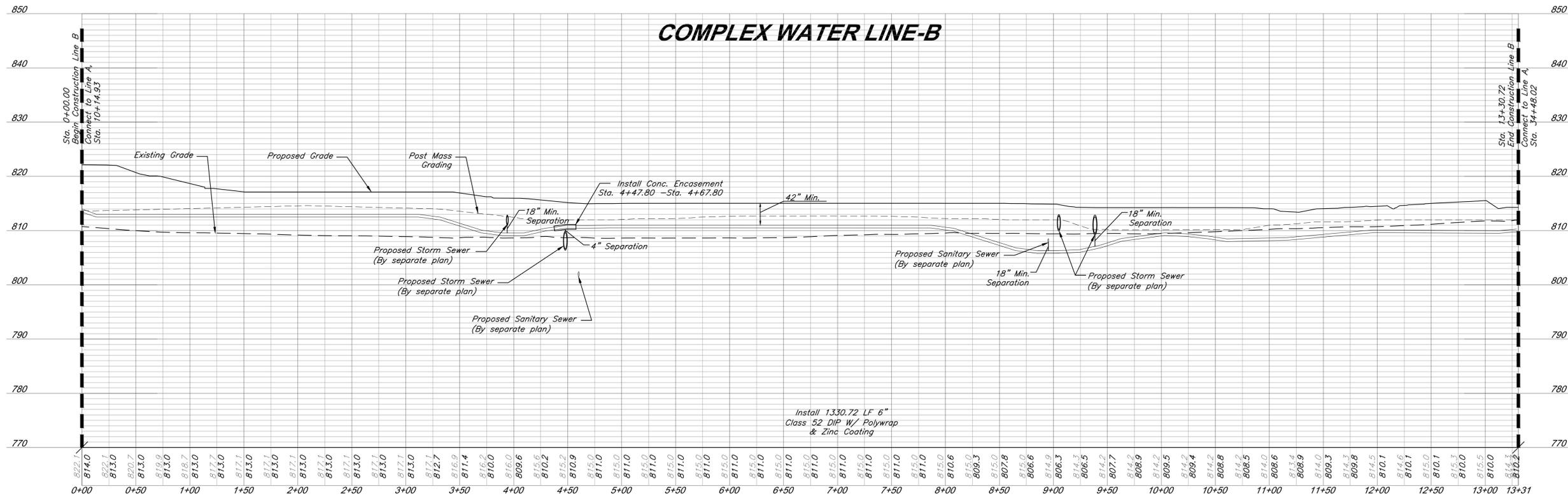
Utility Legend

	Cable TV Pedestal		Water Meter
	Power Pole		Fiber Optic Line
	Guy Anchor		Fire Protection Line
	Electrical Manhole		Gas Line
	Electrical Transformer		Over Head Electric
	Gas Meter		Over Head Telephone
	Curb Inlet		Over Head Cable TV
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/20/2020



COMPLEX WATER LINE-B



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**Utility Plan
Storm Sewer**

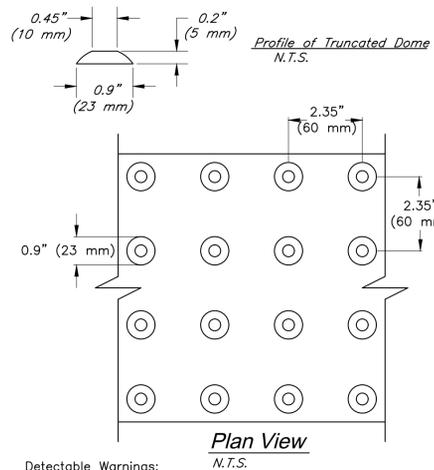
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Detectable Warnings:

- Curb ramps shall have detectable warnings extending the full length and width of the curb ramp.
- 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:

$$\text{Contrast} = \frac{B1 - B2}{B1} \times 100$$

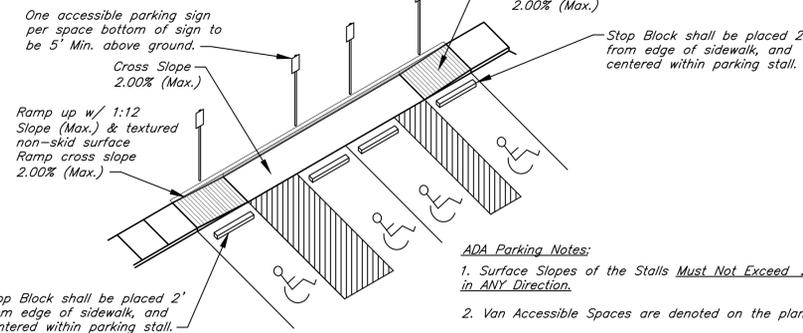
where B1 = light reflectance value (LRV) of the lighter area and B2 = light reflectance value (LRV) of the darker area.

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) wide.
- Contractor shall install Detectable Warnings in compliance with current ADA standards.

DETECTABLE WARNINGS

N.T.S.

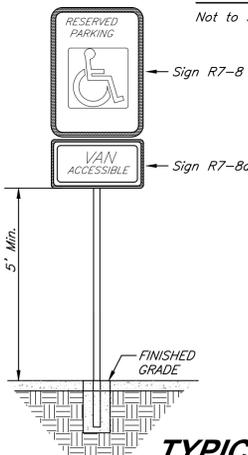


ADA Parking Notes:

- Surface Slopes of the Stalls Must Not Exceed 2.00% in ANY Direction.
- Van Accessible Spaces are denoted on the plan.
- Parking Blocks shall be placed 24" from edge of sidewalk to center line of parking block.

ADA PARKING DETAIL

Not to Scale

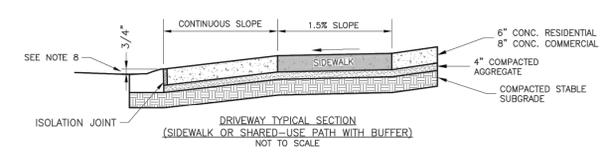
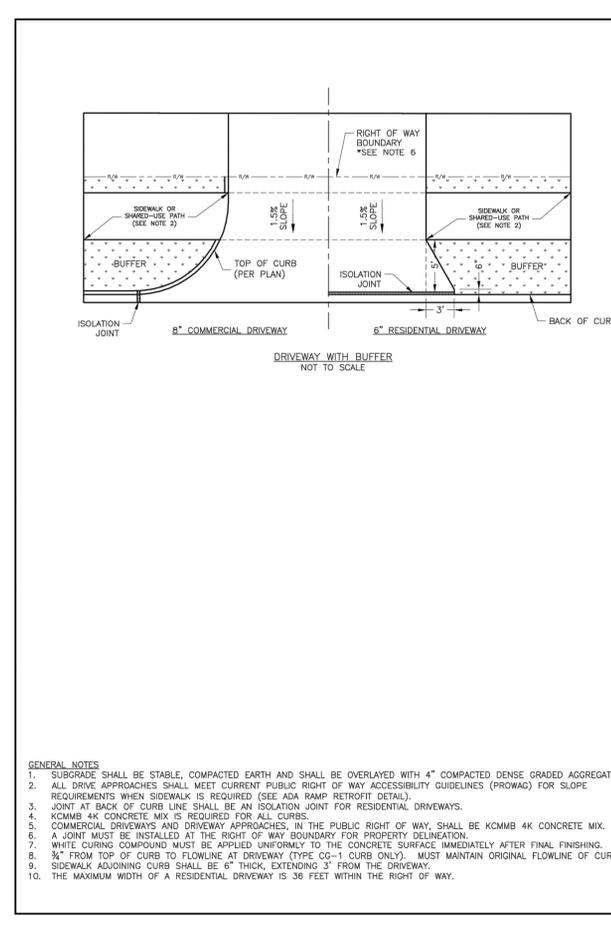
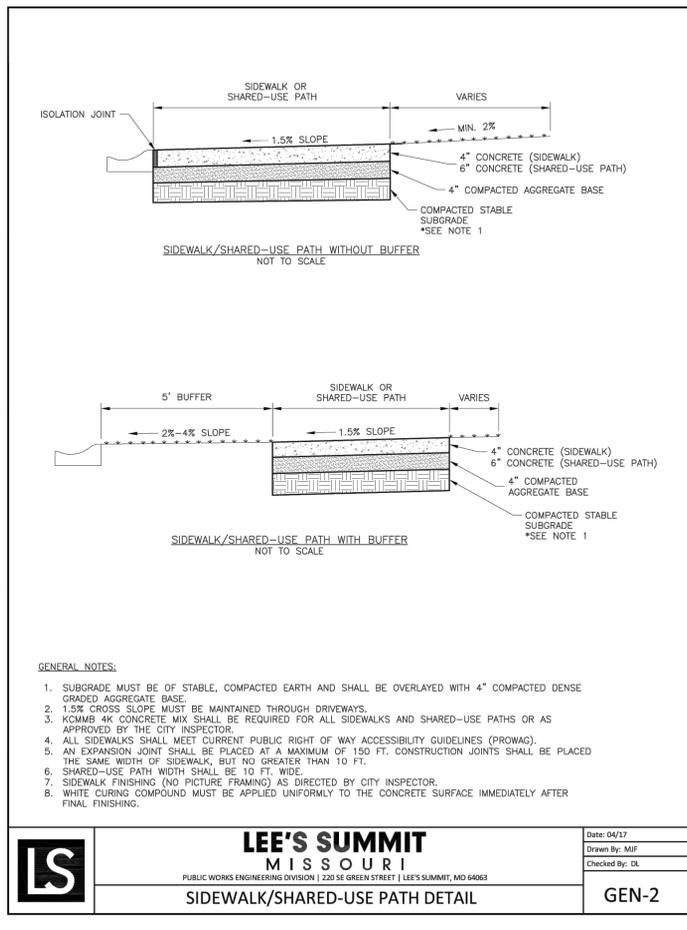


ADA Sign Notes:

- 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.
- Supplemental Accessible Sign (R7-8a) shall be used on all required Van Accessible Spaces.
- Signs shall be blue with white lettering.

TYPICAL ACCESSIBLE SIGNAGE

Not to Scale

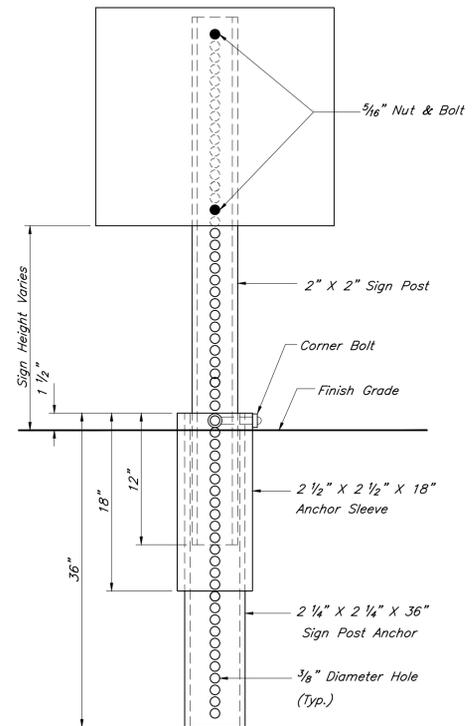
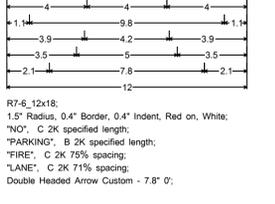


LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 2205 E. GREEN STREET | LEE'S SUMMIT, MO 64083

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

DRIVEWAY DETAIL

Drawn By: MIF
Checked By: DL
Date: 04/22
Proj #: GEN-1



Pavement Installation Sequence

- Sign post anchor driven into subgrade prior to the placement of the pavement.
- Anchor sleeve driven into subgrade over the sign post anchor prior to the placement of the pavement.

Ground Installation Sequence

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

Note:
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 subsidiary items.

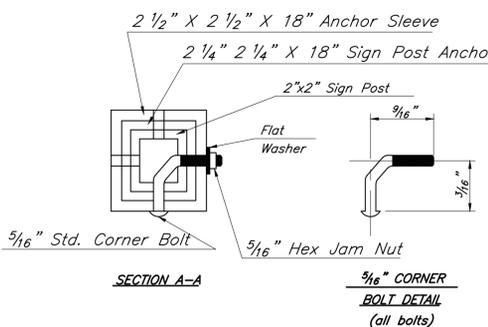
All Components shall be galvanized.

BREAK-AWAY SIGN POST DETAIL

Not to Scale

Sign Notes:

- All letter, number & symbol sizes, spacing & colors, and the sign colors shall conform to the current "Manual On Uniform Traffic Control Devices."
- Sign blank material shall be as follows:
Signs 36"x36" or greater 0.100" thick
Guide Signs 0.125" thick
All other signs 0.080" thick
- All sign mounting hardware shall be galvanized.
- All sign faces shall be fabricated using ASTM Type III Prismatic reflective sheeting.



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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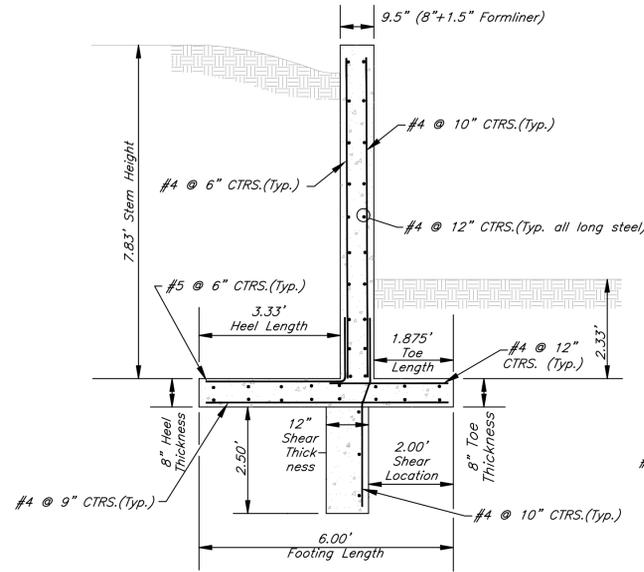
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Construction Details

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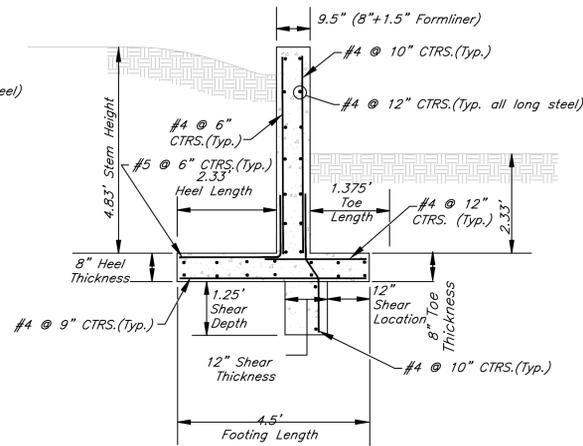
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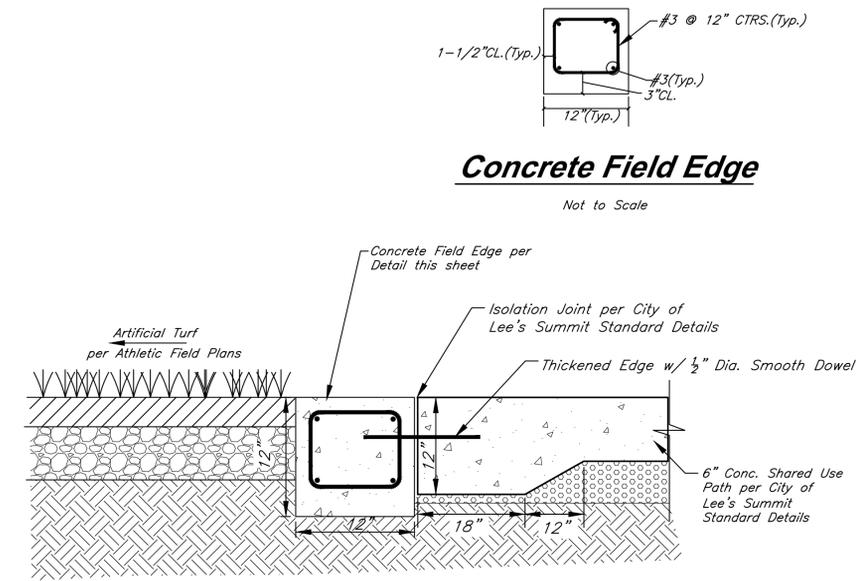
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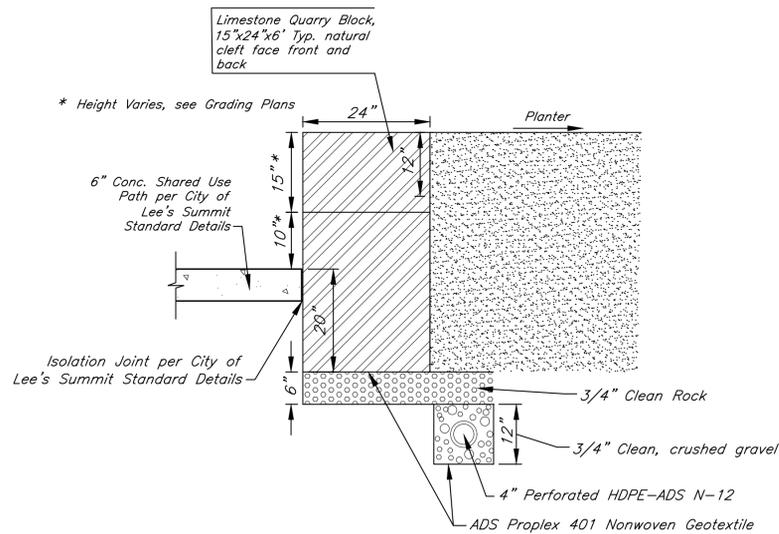
5.5' Exposed Wall with 8' Fence Detail
Not to Scale



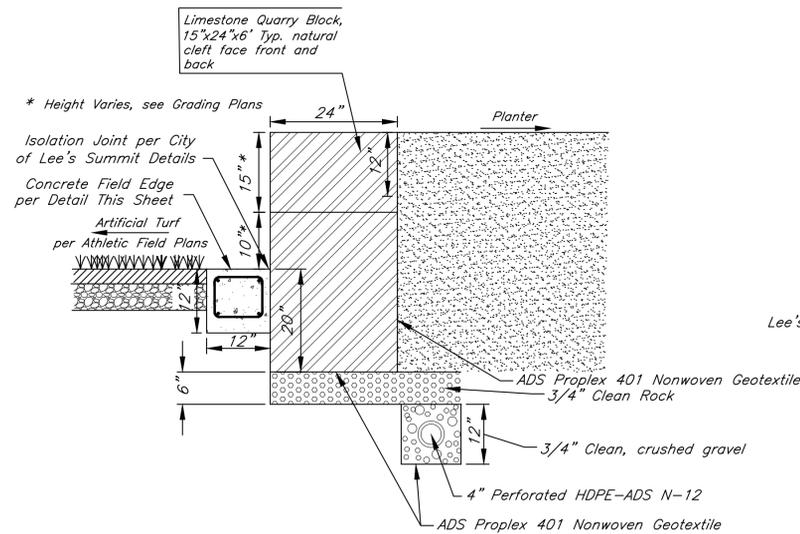
2.5' Exposed Wall with 8' Fence Detail
Not to Scale



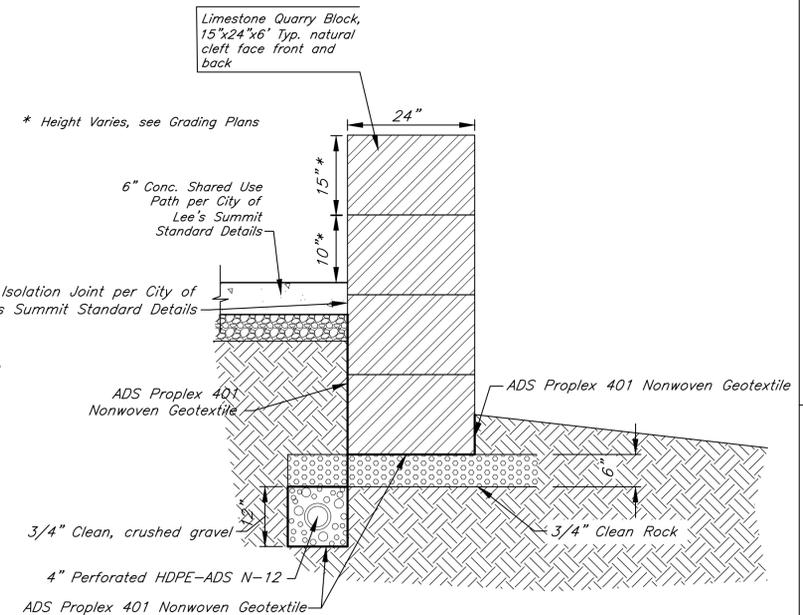
CONCRETE FIELD EDGE DETAIL
To be used between artificial turf installation. See Playing Field Plan.
Not to Scale



LIMESTONE WALL DETAIL ADJACENT PLANTER AND WALK
Not to Scale



LIMESTONE WALL DETAIL ADJACENT FIELD AND PLANTER
Not to Scale



STACKED LIMESTONE WALL DETAIL
Not to Scale

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Construction Details

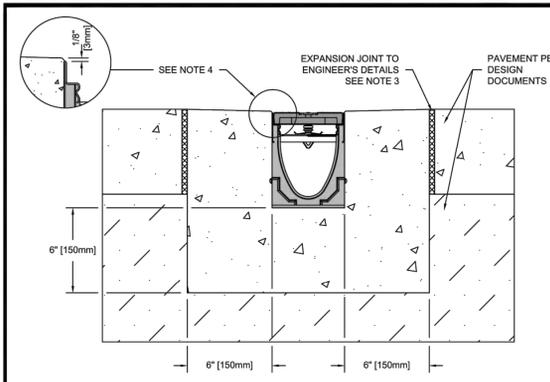
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SHEET NO:

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/20/2020

C-502



SPECIFICATION CLAUSE

K100 KLASSIKDRAIN - LOAD CLASS C

GENERAL:
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS:
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:
 COMPRESSIVE STRENGTH: 14,000 PSI
 FLEXURAL STRENGTH: 4,000 PSI
 TENSILE STRENGTH: 1,500 PSI
 WATER ABSORPTION: 0.07%
 FROST PROOF: YES
 DILUTE ACID AND ALKALI RESISTANT: YES
 B117 SALT SPRAY TEST COMPLIANT: YES

THE SYSTEM SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH WITH A 5.1" (130mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

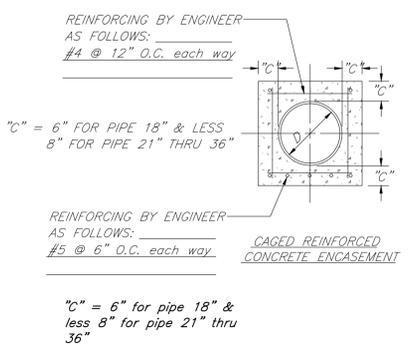
THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING "QUICKLOK" BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

NOTES:

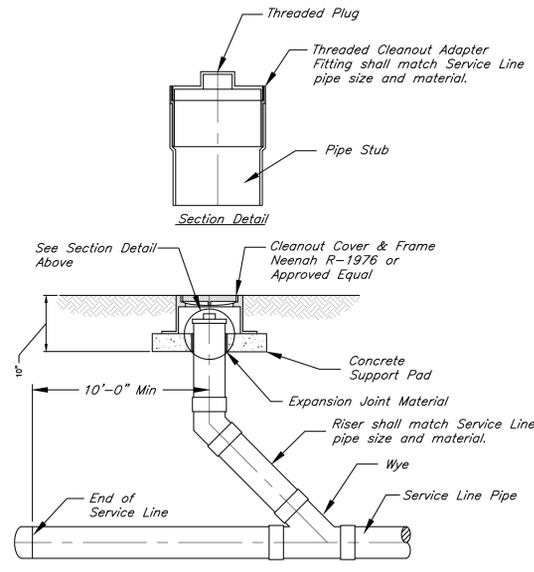
- IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
- MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
- EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
- THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" (3mm) ABOVE THE TOP OF THE CHANNEL EDGE.
- CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
- REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

K1-C-ECP	K100 - KLASSIKDRAIN - LOAD CLASS: C Exposed Concrete Pavement	ACO Polymer Products, Inc.
DATE: 08/24/15	INSTALLATION DRAWING - ACO DRAIN	825 W. Beechcraft St. Casa Grande, AZ 85122 Tel: 520-421-9888 Fax: 520-421-9899
Arizona Tel: 888-490-9552	e-mail: sales@acousa.com	9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235
Ohio Tel: 800-543-4764	www.acousa.com	4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063
		South Carolina Tel: 800-543-4764



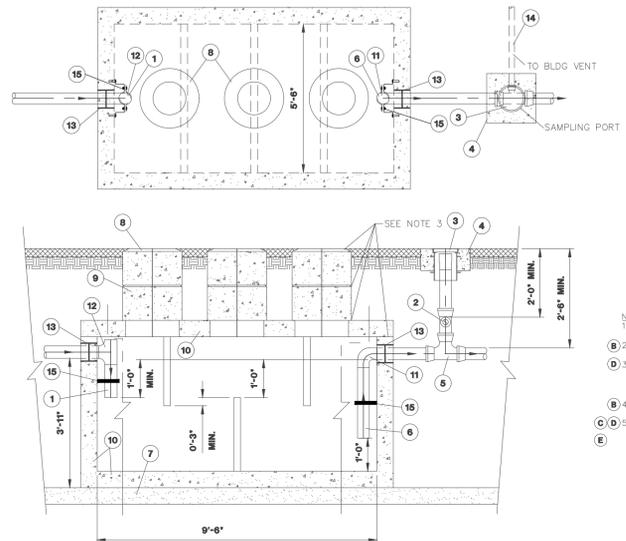
CAGED REINFORCED CONCRETE ENCASEMENT
Not to Scale

- Notes:
- All encasements shall be centered on the crossing.
 - All concrete shall be KCMMB 4K



CLEANOUT DETAIL
No Scale

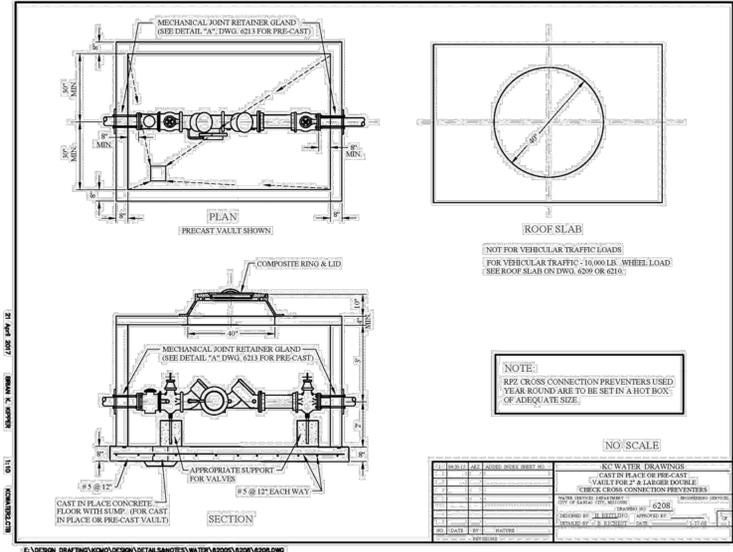
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11/20/2020



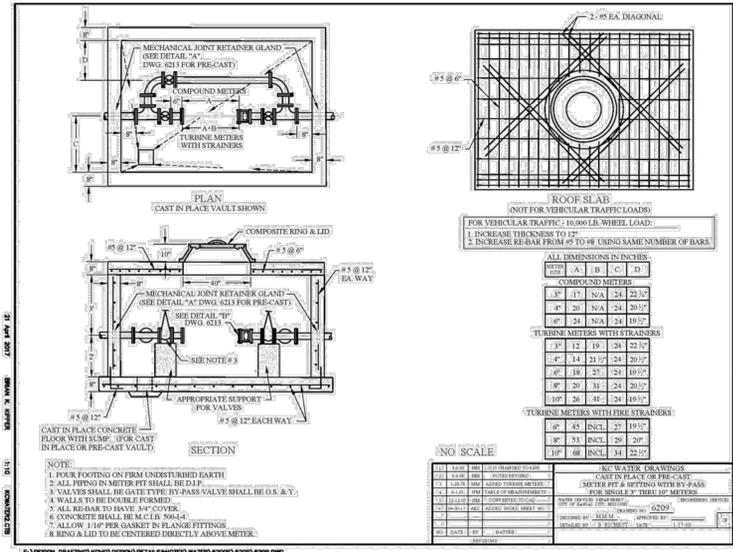
GREASE INTERCEPTOR DETAILS
Not to Scale

ITEM	DESCRIPTION
1	4" ABS INLET PIPE**
2	4"x4"x2" TEE WITH 2" PIPE TO BUILDING VENT*
3	THREADED C/O CAP JOSAM 58860 OR APP EQUAL**
4	CONCRETE PAD
5	4"x4"x4" TWO-WAY CLEANOOUT TEE*
6	4" ABS OUTLET**
7	4" - 6" GRAVEL BEDDING
8	HEAVY-DUTY CAST IRON FRAME AND COVER ***
9	CONCRETE ADJUSTMENT RINGS
10	REINFORCE AS REQUIRED FOR SERVICE CONDITIONS
11	4" ABS 90° ELBOW*
12	4" ABS TEE*
13	A-LOK OR PRESS SEAL PSX PIPE/WALL CONNECTOR
14	2" VENT PIPE (IDENTIFY PIPE TYPE, CLASS & JOINT AS REQUIRED FOR PROJECT)
15	STAINLESS STEEL PIPE SUPPORT CLAMP ****

NOTES:
 * 4" PIPE MAY BE SUBSTITUTED TO MATCH UPSTREAM PIPE DIAMETER.
 ** REFER TO CLEAN OUT DETAILS ON STANDARD DETAIL SHEET.
 *** CLAY & BAILEY 2008 BV OR EQUAL (FROST PROOF COVERS OPTIONAL).
 **** STAINLESS FASTENERS #63 OR EQUAL. 1/2"x2-1/2" SS BRACKET W/ 1/2"x1-1/2" FULLY THREADED SS HEX BOLT WITH 1/2" SS WASHER AND 1/2"x1-3/4" SS ANCHORS. CLAMP TO BE FACTORY INSTALLED.



KC Water Rules and Regulations for Water Service Lines 2018 47



KC Water Rules and Regulations for Water Service Lines 2018 48

IRON AGE

Array

Top: 19.5625"

Edge: .8125"

Side: 4.8125"

Perspective

Side

Perspective

Notes:

- Material: cast iron
- Finish: Natural
- Edge thickness: 13/16"
- Fits ABT® PolyDrain®, ACO® K100/S, MEA® 1000 Series
- Heel-Proof: No openings greater than 1/4"
- Weight approx. < 8.4 lbs / Free Drain Area: 18.2%
- Due to casting inconsistencies all dimensions are nominal

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Registration Number: VA 1-990-521

2104 SW 152nd St #4 TEL 206.276.0925
Burien, WA 98166 FAX 206.257.0318
www.ironagedesigns.com

Job No. 01-RAI.A.5x20
DWG. NO. 12/1/15
Scale: Not to Scale

IRON AGE Rain 5"x20" Heel-Proof Trench Grate

Job No. 01-RAI.A.5x20
DWG. NO. 12/1/15
Scale: Not to Scale

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G&A
9801 Renner Boulevard
Lenexa, KS 66219
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www.gbatteam.com
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PROJECT:

Paragon Star Soccer Complex
Soccer Complex & Associated Improvements
1401 NW View High Dr, Lee's Summit, MO 64081

Final Development Plan - RESUBMITTAL

ISSUE:

PROFESSIONAL SEAL:

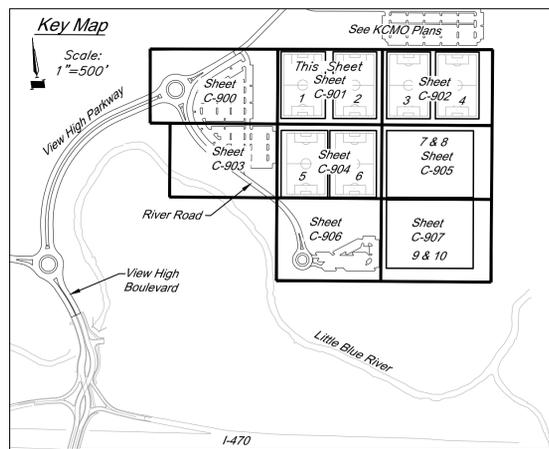
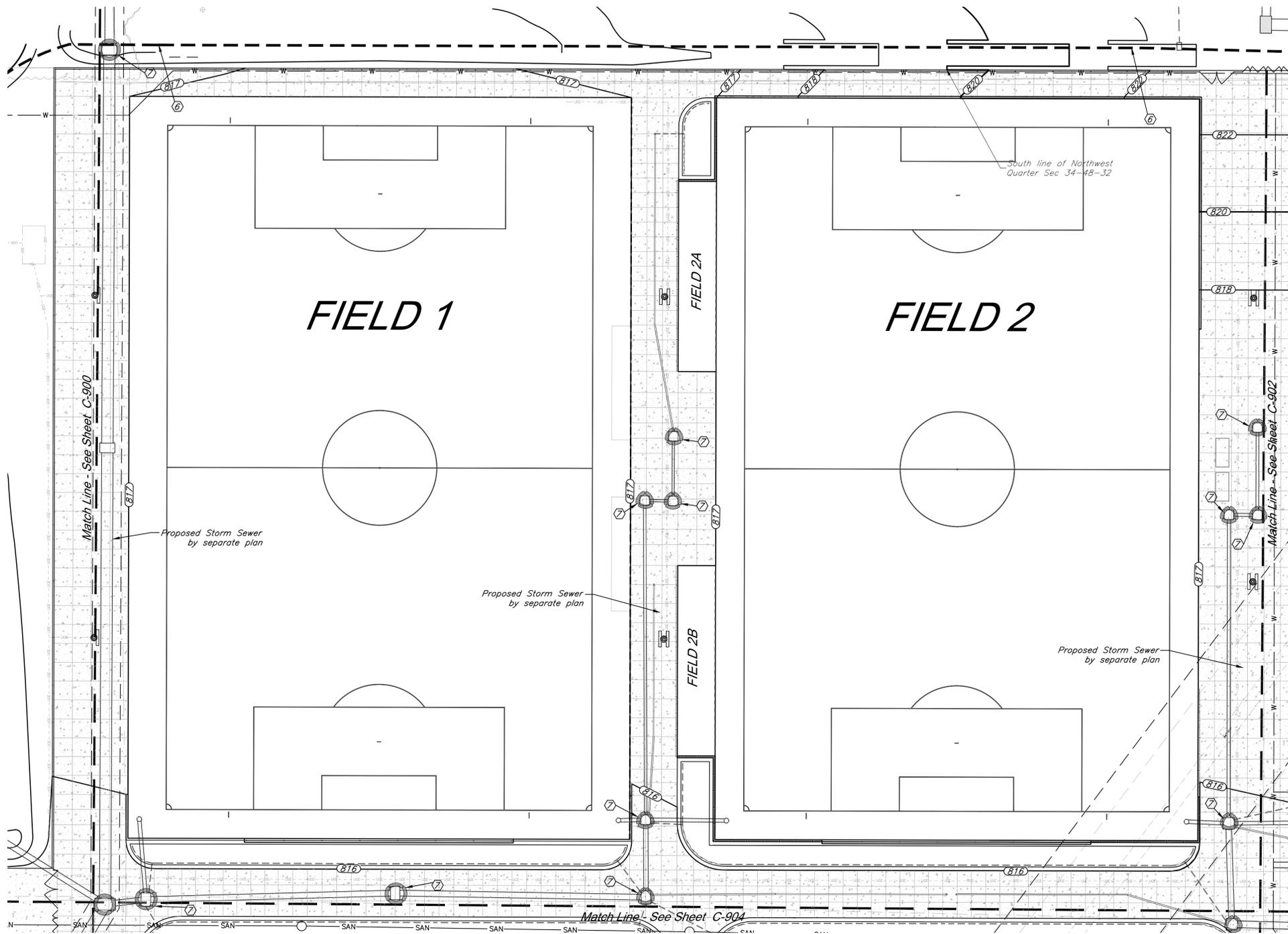
STATE OF MISSOURI
CLINT LOUMASTER
REGISTERED PROFESSIONAL ENGINEER
NUMBER PE-2011009651
11/2/2020

DRAWING TITLE:
Utility Details

JOB NO: 1197 SCALE:
DATE: 11.04.2020 DRAWN BY: JMS/JKN

SHEET NO:

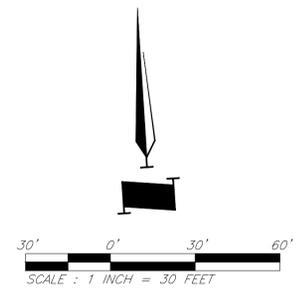
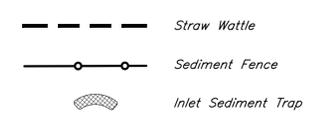
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EROSION CONTROL STAGING CHART

Project Phase	Reference No.	Description	Remove After Phase:	Notes
1 - Place Erosion Control Prior to Land Disturbance	1	Install Perimeter Silt Fence	4	Install as shown on plans
	2	Construct Gravel Construction Entrance	4	Install as shown on plans
	3	Construct Concrete Wash-out	4	Install as shown on plans
	4	Install Adjacent Inlet Protection	4	Install as shown on plans
2 - After Stripping, Grubbing, and Mass Grading	5	Install Interior Silt Fence	4	Install as shown on plans
	6	Install Straw Wattles	4	Install as shown on plans
3 - After Storm Sewer Construction	7	Install Inlet Protection	4	Install as shown on plans
4 - Final Grading, Paving, and Landscaping	8	Install Erosion Control Blanket	N/A	Install as shown on plans
	9	Final Grading, Seeding, Sodding, and Landscaping of all disturbed areas	N/A	Interior erosion control measures and inlet protection may be removed once seed and sodded areas are established to cover 80% of the site.

Erosion Control Legend



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

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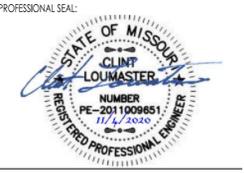
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Missouri Certificate of Authority #FD0453304

PROJECT:
Paragon Star Soccer Complex
Soccer Complex & Associated Improvements
1401 NW View High Dr, Lee's Summit, MO 64081
Final Development Plan - RESUBMITTAL

ISSUE:



DRAWING TITLE:
Erosion Control Plan

JOB NO: 1197 SCALE:
DATE: 11.04.2020 DRAWN BY: JMS/KJN

SHEET NO:
C-901

