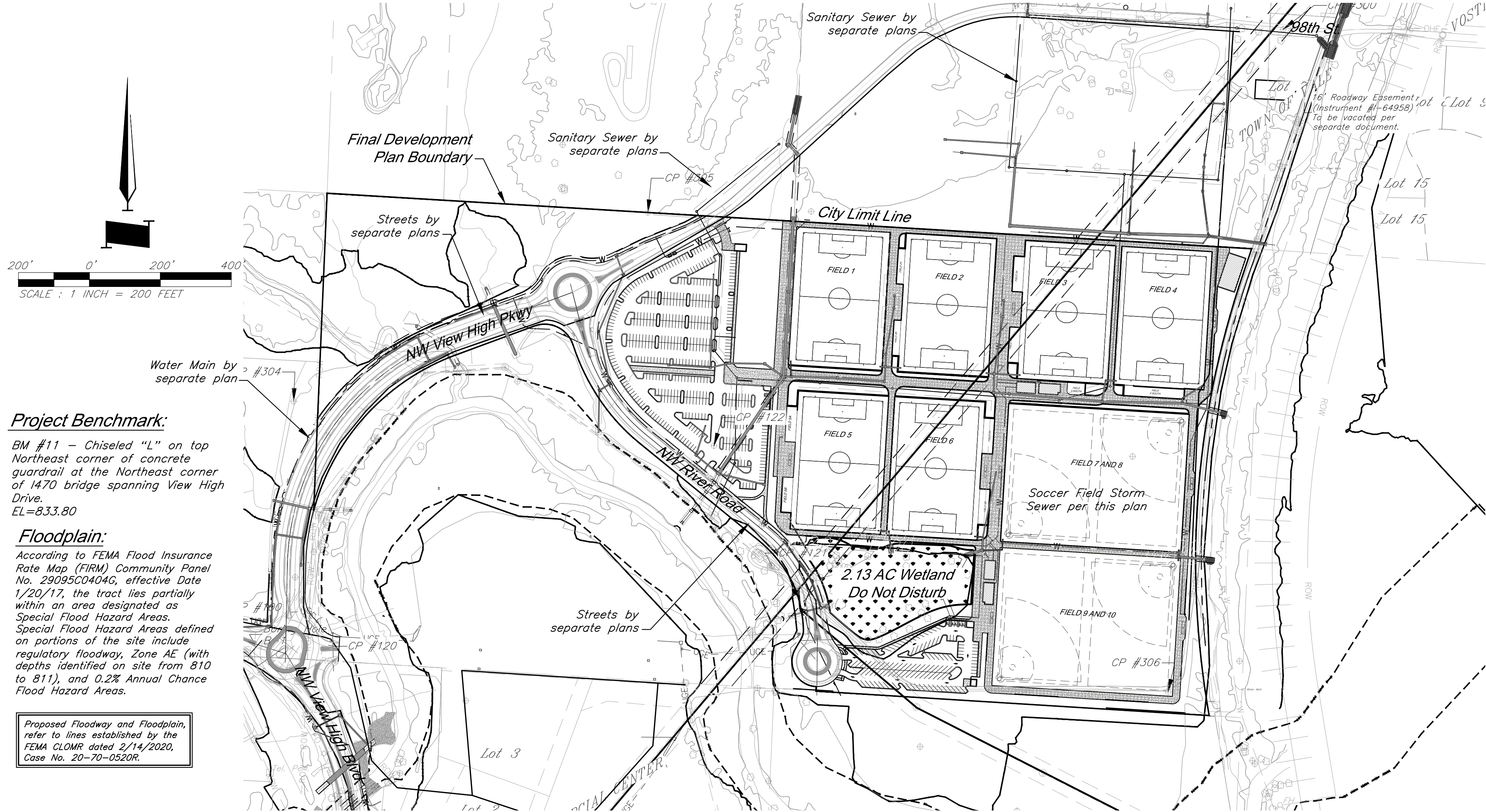


G:\12720\Civil_3D\production drawings\field storm plans\1272000020.dwg Layout: 1 General Layout -- Wednesday, September 30, 2020, 2:45pm -- Copyright 2020, George Butler Associates, Inc. Architect: 00212, Professional Engineer 000133, Professional Land Surveyor 0000209 The PROFESSIONAL WHOLE SEAL SIGNATURE AND PERSONAL SEAL APPEARS ON THIS PAGE ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE. AND DISCLAIMS ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT BEING BY THE UNDERSIGNED PROFESSIONAL RELATING TO, OR INFRINGING TO BE USED FOR, ANY PART OR PARTS OF THE PROJECT TO WHICH THE PAGE REFERS.

PARAGON STAR SOCCER COMPLEX FIELD STORM SEWER



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

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.

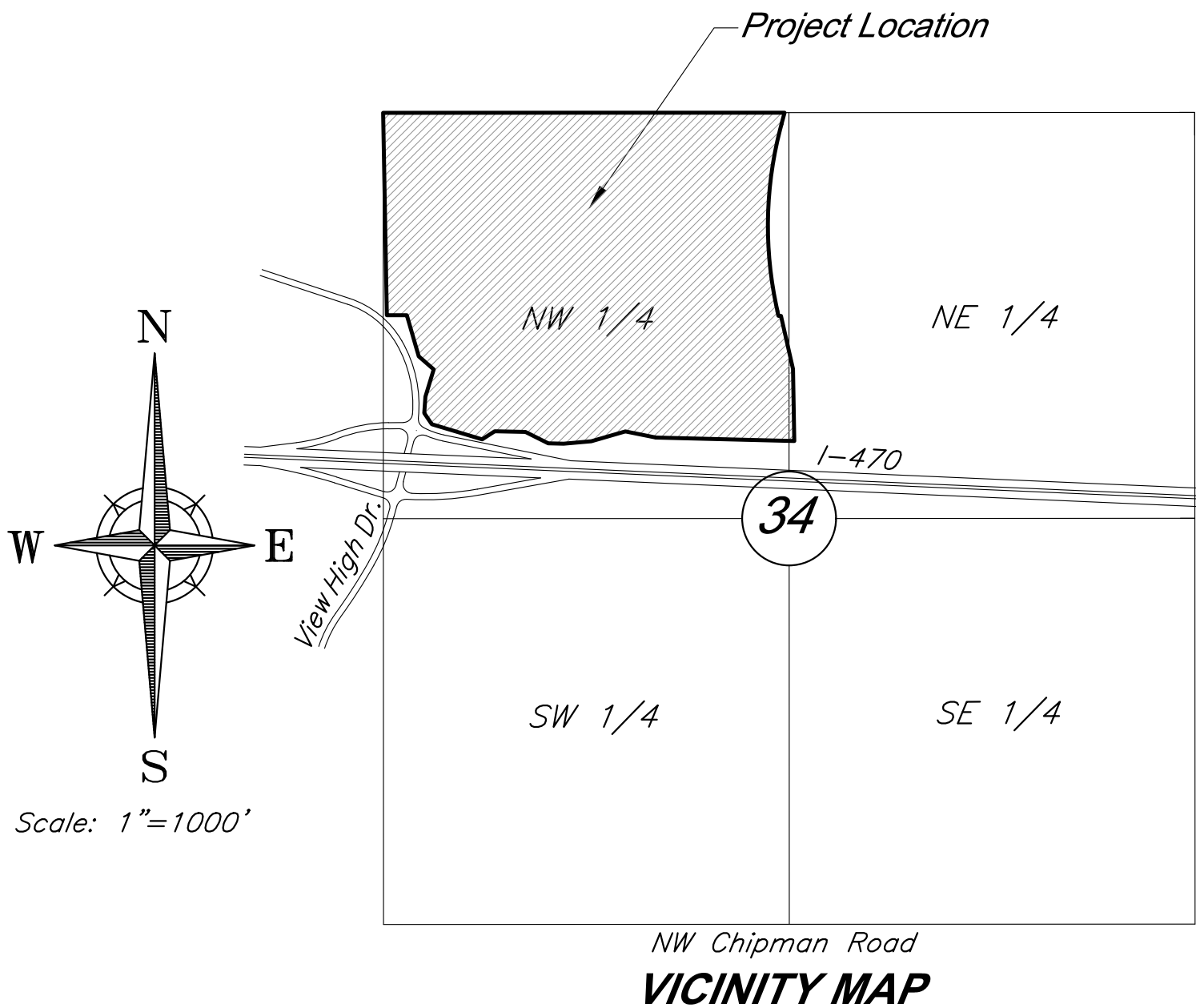
Proposed Floodway and Floodplain, refer to lines established by the FEMA CLOMR dated 2/14/2020, Case No. 20-70-0520R.

Boundary Description:

All that part of the Northwest Quarter of Section 34, Township 48 North, Range 32 West, of the 5th P.M., and all of GRAHAM COMMERCIAL CENTER, a subdivision in the in the City of Lee's Summit, Jackson County, Missouri, being more particularly described as follows:

BEGINNING at the Northwest corner of said Northwest Quarter of Section 34; thence South 86°33'45" East, along the North line of said Northwest Quarter, a distance of 2611.91 feet, to a point on the Westerly Right-of-Way line of Union Pacific Railroad, as now established; thence South 18°46'13" West, departing said North line, along said Westerly Right-of-Way line, a distance of 76.95 feet, to a point of curvature; thence Southwesterly and Southeasterly, continuing along said Westerly Right-of-Way line, along a curve to the left, having a radius of 2508.01 feet, and a central angle of 28°06'45", a distance of 1230.57 feet, to a point of tangency; thence South 09°20'32" East, continuing along said Westerly Right-of-Way line, a distance of 30.31 feet, to a point on the South line of the North half of said Northwest Quarter; thence South 86°26'21" East, continuing along said Westerly Right-of-Way line, and along said South line of the North half of the Northwest Quarter, a distance of 16.41 feet; thence South 09°20'32" East, departing said South line of the North half of the Northwest Quarter, continuing along said Westerly Right-of-Way line, a distance of 354.98 feet, to a point on the East line of said Northwest Quarter; thence South 02°29'17" West, continuing along said Westerly Right-of-Way line, and along said East line of the Northwest Quarter, a distance of 468.48 feet, to a point on the North Right-of-Way line of Interstate 470, as now established; thence North 85°05'37" West, departing said Westerly Right-of-Way line, along said North Right-of-Way line of Interstate 470, a distance of 899.87 feet; thence North 75°10'03" West, continuing along said North Right-of-Way line, a distance of 203.04 feet; thence South 77°15'22" West, continuing along said North Right-of-Way line, a distance of 228.93 feet, to a point on the East line of the Southwest Quarter of said Northwest Quarter, said point also being the Southeast corner of said GRAHAM COMMERCIAL CENTER; thence continuing South 77°15'22" West, continuing along said North Right-of-Way line, and along the South line of said subdivision, a distance of 1.94 feet; thence South 88°33'58" West, continuing along said North Right-of-Way line, and along said South line of said subdivision, a distance of 181.11 feet; thence North 85°01'31" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 100.18 feet; thence North 60°06'43" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 165.44 feet; thence North 85°08'16" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 199.96 feet; thence South 60°28'02" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 97.23 feet; thence North 69°50'05" West, continuing along said North Right-of-Way line, and said South line of said subdivision, a distance of 342.03 feet, to the Southwest corner of said subdivision; thence North 30°28'52" West, continuing along said North Right-of-Way line, and along the West line of said subdivision, a distance of 87.88 feet; thence North 07°21'08" East, continuing along said North Right-of-Way line and it's transition to the East Right-of-Way line of View High Drive, as now established, and said West line of said subdivision, a distance of 106.53 feet; thence North 20°25'39" East, departing said West line of said subdivision, continuing along said East Right-of-Way line of View High Drive, a distance of 185.39 feet; thence North 45°30'34" West, continuing along said East Right-of-Way line, a distance of 129.40 feet; thence North 12°40'32" West, continuing along said East Right-of-Way line, a distance of 278.96 feet, to a point on said South line of the North half of the Northwest Quarter; thence North 86°26'21" West, continuing along said East Right-of-Way line, and along said South line of the North half of the Northwest Quarter, a distance of 130.00 feet, to the Southwest corner of said North half of the Northwest Quarter; thence North 02°25'47" East, along the West line of said Northwest Quarter, a distance of 1316.45 feet, to the POINT OF BEGINNING, containing 5,217,462.56 square feet or 119.78 acres, more or less.

See Sheet C-101 for dimensioned boundary.



INDEX OF SHEETS

Sht. No.	Description
1	General Layout
2-10	Utility Plan
11-15	Storm Sewer Profiles
16-19	Drainage Map
20	Drainage Calculations
21-26	Storm Sewer Details

SUMMARY OF QUANTITIES

Item No.	Description	Unit	Approx. Unit Quantity
1	10'x5' Junction Box	EA	1
2	10'x5' Curb Inlet	EA	1
3	8'x8' Wetland Outflow Structure	EA	1
4	7'x4' Junction Box	EA	2
5	6'x4' Junction Box With Grate Inlet	EA	5
6	5'x4' Junction Box With Grate Inlet	EA	2
7	5'x4' Curb Inlet	EA	5
8	6'x6' Junction Box With Grate Inlet	EA	1
9	5'x5' Junction Box With Grate Inlet	EA	3
10	4'x4' Junction Box With Grate Inlet	EA	6
11	24" Dia. Nyloplast Basin	EA	3
12	30" Dia. Nyloplast Basin	EA	18
13	End Section 18" HDPE w/ Conc. Toewall	EA	1
14	End Section 24" HDPE w/ Conc. Toewall	EA	1
15	End Section 36" RCP w/ Conc. Toewall	EA	1
16	End Section 42" HDPE w/ Conc. Toewall	EA	2
17	Storm Sewer (12" HDPE)	LF	429
18	Storm Sewer (15" HDPE)	LF	208
19	Storm Sewer (18" HDPE)	LF	897
20	Storm Sewer (24" HDPE)	LF	552
21	Storm Sewer (30" HDPE)	LF	469
22	Storm Sewer (36" HDPE)	LF	306
23	Storm Sewer (42" HDPE)	LF	422
24	Storm Sewer (36" Arch RCP)	LF	21
25	Storm Sewer (60" RCP)	LF	778
26	Riprap	SY	84
27	TRM	SY	112
28	Underdrain (4" HDPE)	LF	532
29	Wall	SF	750

Digitally signed by
Kent Monter
Reason: I am
approving this
document
Date: 2020.10.20
13:31:24 -05'00'

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/20/2020

Utility Contacts

Sanitary Sewers	Mr. Jeff Thorn, PE City of Lee's Summit Water Utilities 1200 SE Hamblen Road Lee's Summit, MO 64063 (816) 969-1922 email: jeff.thorn@cityofLS.net	Gas	Mr. Donnie Richards Missouri Gas Energy 7500 E. 35th Terrace Kansas City, MO 64129 (816) 472-9464 Fax (816) 472-3488 email: donnie.richards@sug.com
	Mr. Jeff Shook Little Blue Valley Sewer District 21101 East 78 Highway Independence, MO 64057 (816) 285-1522 email: jshook@lbvsd.net	Cable Television	Mr. Greg Thomas Time Warner Cable 8221 W. 119th Street Overland Park, KS 66213 (913) 643-1950 email: greg.thomas@twcable.com
	Kansas City, MO Public Works Department (816) 513-2600	Telephone	Ms. Glenda Charles AT&T 1425 Oak Street Kansas City, MO 64106 (816) 365-1669 Fax (816) 275-1109 email: gc6954@att.com
Water	Mr. Jeff Thorn, PE City of Lee's Summit Water Utilities 1200 SE Hamblen Road Lee's Summit, MO 64063 (816) 969-1922 email: jeff.thorn@cityofLS.net	Electric Service	Mr. Nathan Michael Kansas City Power & Light P.O. Box 418679 Kansas City, MO 64141 (816) 220-5210 Fax (816) 245-3623 email: Nathan.Michael@kcpl.com

Missouri One Call System 1-800-344-7483 (DIG-RITE)

GBA PN 12720.09

GBA
1981 Rayner Boulevard
Lee's Summit, MO 64063
www.gbaleam.com
MO Certificate of Authority # 000133

LAND'S 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.hoerschaudt.com
MO Certificate of Authority # 2019004088

HENDERSON ENGINEERS, Inc.
8345 Lenora Drive
Lee's Summit, MO 64063
www.he-eng.com
Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture
7837 College Boulevard, Suite 415
Overland Park, KS 66211
913.498.1550
www.finklewilliams.com
Missouri Certificate of Authority # F00453304

PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer

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

Field Storm Sewer Plans

ISSUE:

10/17/19 City Comments
3/13/20 City Comments
4/28/20 City Comments
5/22/20 City Comments

9/29/20 Site Plan Revision

PROFESSIONAL SEAL:



DRAWING TITLE:

General Layout

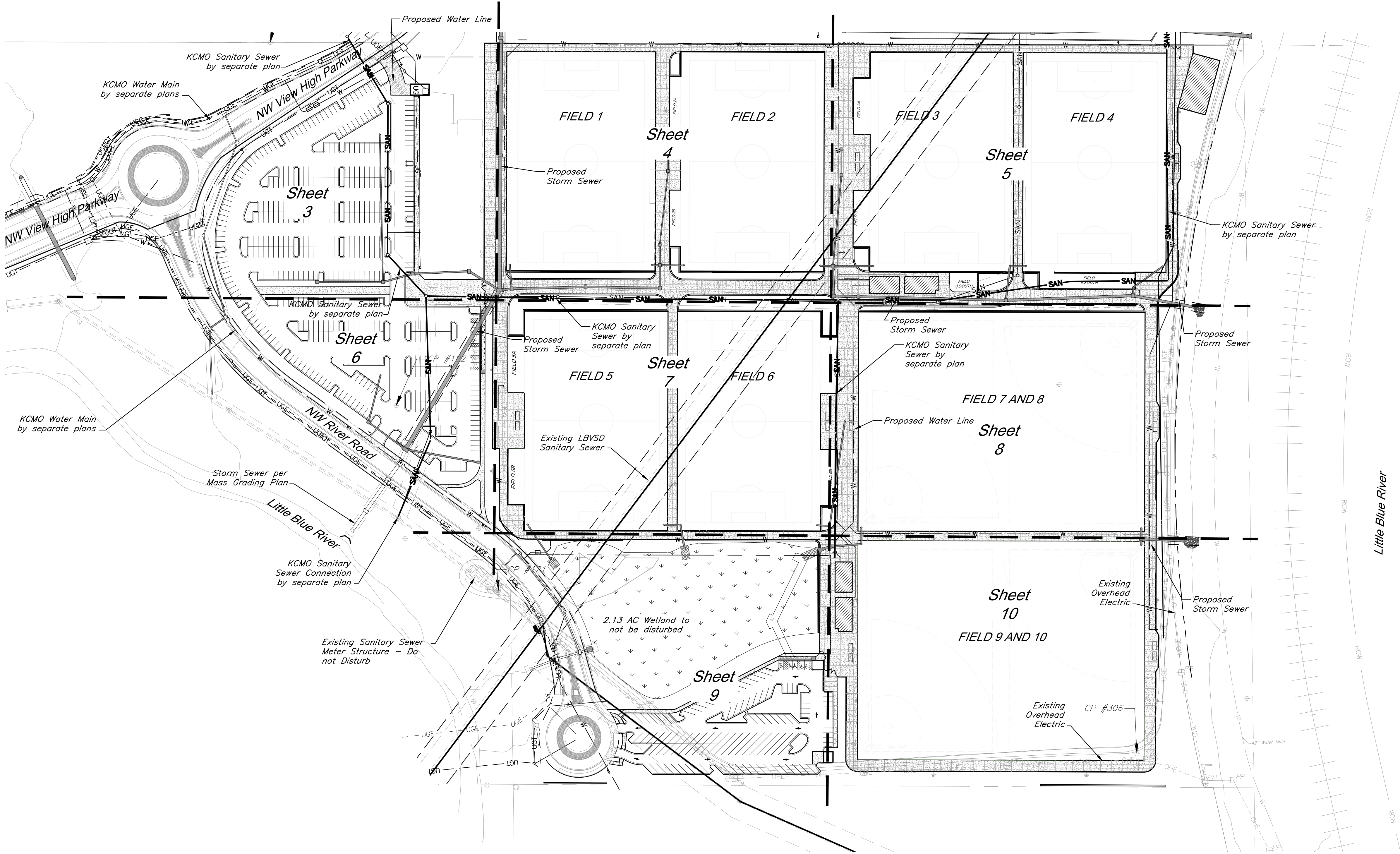
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DATE: 05.22.2020 DRAWN BY: GBA

SHEET NO:

1

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

- Storm Sewer General Notes:**
1. All RCP shall be class III.
 2. All HDPE Pipe shall be ADS N-12 or equivalent, Pipe shall meet ASTM F2306.
 3. Storm sewer lengths are calculated from center of structure to center of structure.
 4. All pipe connections to inlets shall occur at center of structure wall unless specifically noted otherwise.
 5. All work shall conform to City of Lee's Summit, MO standards.
 6. Precast structures shall be constructed with KCMMB 4,000 psi concrete. Shop drawings shall be submitted to the Engineer for review prior to casting.
 7. All in grade inlets shall match adjacent slope.
 8. Drainage across the project site during construction shall be the Contractor's responsibility. Surface drainage shall be controlled to reduce or prevent the flow of surface water onto adjacent grounds. Contractor shall control downstream erosion and siting during construction. Flexibility is given to the Contractor to make minor grading revisions along roads or between building pads to improve drainage during construction, with prior approval of the engineer.
 9. See Sheets 21-26 for construction details.

PROJECT CONTROL

Modified State Plane (Project Ground Coordinates), NAD83
2403 - Missouri West, U.S. Feet
Vertical - NAVD83, U.S. Feet

0.99990648
To get to State Plane:
Coordinates x CAF = State Plane

CP #100 - 1/2" rebar with GBA cap on South side of View High Drive, 18' West of asphalt field entrance, approximately 9'75" North along the centerline of View High Drive from the ramp to West bound I-470.

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

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

CP #120 - 1/2" rebar with GBA cap at NW corner of View High Drive and access road "Future View High Drive Pkwy"

Coordinates:
N: 1009573.66'
E: 2803729.57'
EL: 811.46'

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

CP #121 - 1/2" rebar with GBA cap approximately 1430'± ENE of access road "Future View High Drive Pkwy" from View High Drive, near MH #1055

Coordinates:
N: 1009768.28'
E: 2803047.90'
EL: 806.65'

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

CP #122 - 1/2" rebar with GBA cap approximately 1380'± NE of access road "Future View High Drive Pkwy" from View High Drive

Coordinates:
N: 1010126.48'
E: 2804884.88'
EL: 813.20'

- Ties:**
1) West 298'± to center of MH lid
2) South 199'± to center of MH lid

CP #304 - 1/2" rebar West of future View High Pkwy at top of hill near tree line, approximately 732'± North of access road "Future View High Drive Pkwy" from View High Drive

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

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

CP #305 - 1/2" rebar South of dead end of gravel driveway, which connects to Easterly end of E. 97th Street, on top of hill.

Coordinates:
N: 1010784.43'
E: 2804698.47'
EL: 888.55'

- Ties:**
SE 4.00' to great break at ridge line

General Notes:

1. All Construction shall conform to the City of Lee's Summit Technical Specifications in effect at the time of the City's approval date shown on the approved plans and incorporated herein by reference.
2. All traffic control shall be the responsibility of the Contractor and shall be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD).
3. Property Corners and/or Section corners disturbed or damaged by construction activities shall be reset by a Registered Land Surveyor licensed in the state of Missouri, at the Contractor's expense.
4. The Contractor shall be responsible for the restoration of the Right-of-Way and for damaged improvements such as curbs, driveways, sidewalks, street light and traffic signal junction boxes, traffic signal equipment, irrigation systems, etc. Damaged improvements shall be repaired in conformance with the latest City standards and to the City's satisfaction.
5. All work shall be confined within easements and/or construction limits as shown on the plans.
6. The Contractor shall, prior to the commencement of work, investigate surface and subsurface conditions to be encountered across the site and notify the Engineer if any discrepancies or changed conditions are noted.
7. All trash and debris identified on site shall be properly handled and disposed of in accordance with state of Missouri regulations.
8. All measurements on these plans are horizontal distances, not slope distances.
9. This project will include numerous activities occurring on site including storm sewer, sanitary sewer, grading, erosion control, etc. Contractor shall coordinate his work with other contractors on site.
10. Initial construction staking will be performed by GBA - Refer to Bid Documents.
11. All concrete shall be KCMMB 4,000 psi.
12. Oil / Gas Wells are not present on site per Missouri Department of Natural Resources.

Permitting:

12. Contractor is responsible for obtaining all required permits, paying all fees, and for otherwise complying with all applicable regulations governing the work.
13. No work shall be completed within the existing floodway until the CLOMR has been issued.
14. The U.S. Corps of Engineers Section 404 permit has been issued for this project. All work shall adhere to the terms and conditions of this permit, including the preservation of 2.13 Acres of the existing wetland.
15. All work within KCMO city limits shall adhere to KCMO Site disturbance requirements.

Erosion Control:

16. The Contractor is responsible for providing erosion and sediment control BMP's to prevent sediment from reaching paved areas, storm sewer systems, drainage courses, and adjacent properties. In the event the prevention measures are not effective, the contractor shall remove any debris, silt, or mud and restore the Right-Of-Way, or adjacent properties to original or better condition.

17. Contractor shall ensure that all construction shall conform to the requirements of the Stormwater Pollution Prevention Plan (SWPPP) a copy of which shall be maintained and updated on site by the Contractor.
18. The Contractor shall sod all disturbed areas within the Public Street Right-of-Way unless otherwise noted in the plans.
19. No trees shall be damaged or removed without prior authorization from owner unless otherwise shown on this plan.

Earthwork:

20. Slopes shall be constructed to a maximum slope of 3:1 (Horiz:Vert) unless specifically noted otherwise in the referenced Geotechnical reports.
21. Refer to "Geotechnical Engineering Report - Paragon Star Roadways and Borrow Site" Dated December 8, 2016 - along with Addendum #1 dated 1/4/17, and "Geotechnical Engineering Report - Soccer Fields" Dated July 27, 2016 prepared by Terracon Consultants, Inc. for grading recommendations and boring logs. All earthwork shall conform to the recommendations of the Reports.
22. Unless otherwise noted, all spot elevations and contours are shown to "finish" grade surface.
23. All temporary slopes and excavations should conform to Occupational Safety and Health Administration (OSHA) standards for the Construction Industry (29 CFR part 1026, subpart P).
24. Earthwork for this phase of development is intended to balance. Contractor to cut only enough fill material from the borrow source at the north end of the project as required to accomplish the fills shown on this plan set.
25. All Permanent seeded shall be dressed with 12" topsoil and permanent seed. All other disturbed areas shall be seeded with the temporary seed mix.
26. Earthwork quantities shown on the plans assume 15% shrinkage for all fill material. The Contractor shall perform the fill to achieve the grades shown on the drawings. The determination of the actual adjustment of fill required due to shrink/swell of various materials shall be the responsibility of the Contractor.

Utility:

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

Utility Legend

CATV Ped	FO	Water Meter
P.P.	FP	Fiber Optic Line
Guy Anchor	G	Fire Protection Line
Electrical Manhole	OHE	Gas Line
Electrical Transformer	OHT	Over Head Electric
Gas Meter	OHTV	Over Head Telephone
Curb Inlet	ROW	Over Head Cable TV
Sanitary Sewer Manhole	SAN	Property Line
Sanitary Cleanout	UGE	Right-of-Way Line
Light Pole	UGT	Existing Sanitary Sewer Line
Boring Hole	UGTV	Existing Underground Electric
Sign	W	Existing Underground Telephone
Telephone Pedestal	Proposed Storm Sewer	Existing Underground Cable TV
Traffic Signal Post	Existing Storm Sewer	Existing Water Line
Traffic Manhole	Proposed Sanitary Sewer Line	
Fire Hydrant		

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/20/2020

PROFESSIONAL SEAL:



DRAWING TITLE:

Utility Plan

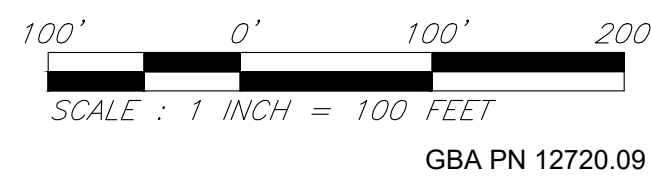
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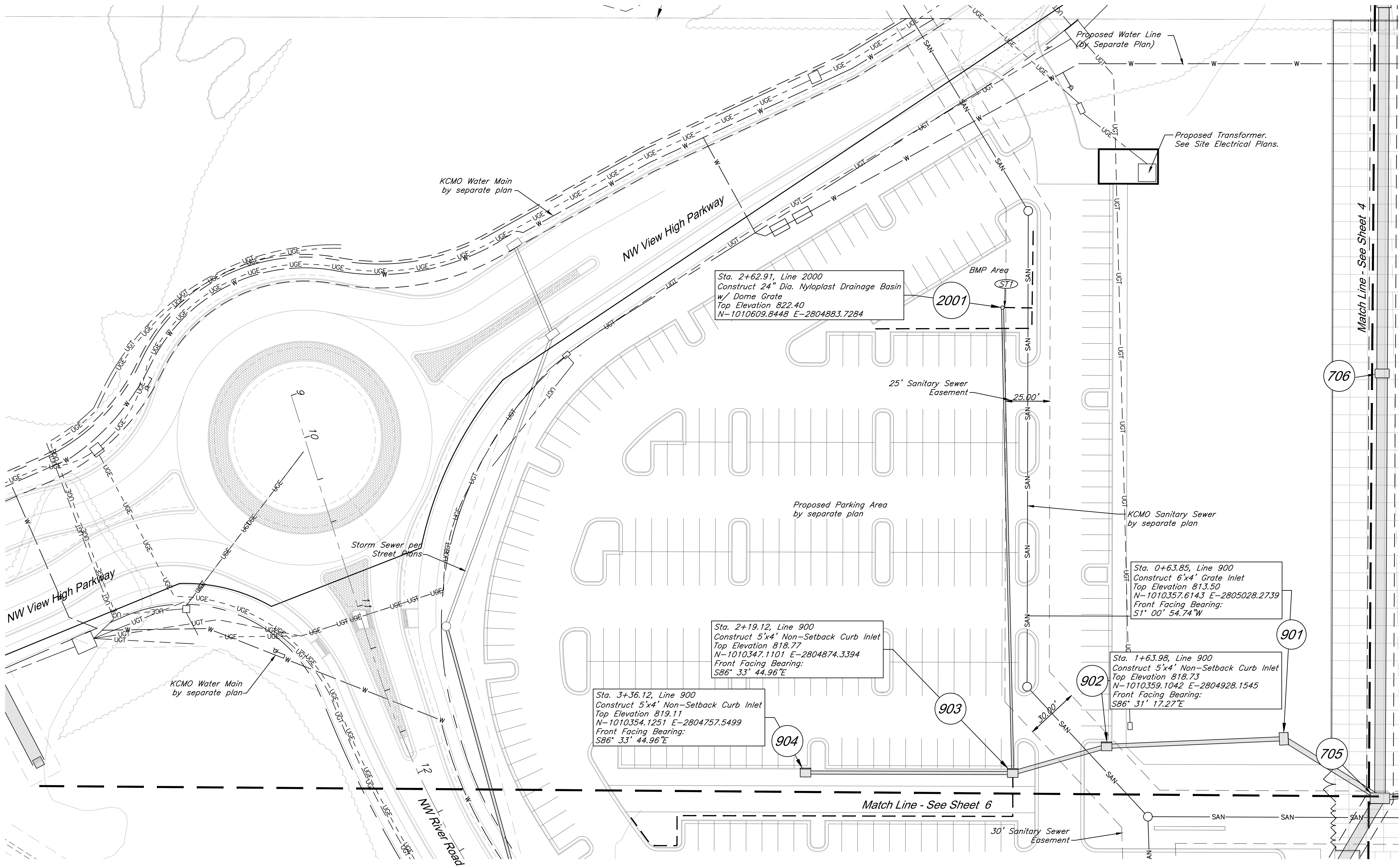
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SHEET NO:

2



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

GBA
1981 Rayner Boulevard
Lenexa, KS 66219
913.492.0400
www.gba.com
MO Certificate of Authority # 000133

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.hoerschaudt.com
MO Certificate of Authority # 2019004088

HENDERSON ENGINEERS, Inc.
8345 Lenexa Drive
Lenexa, KS 66214
913.742.5000
www.he-eng.com
Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture
7837 College Boulevard, Suite 415
Overland Park, KS 66211
913.498.1550
www.finklewilliams.com
Missouri Certificate of Authority # F00453304

PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19 City Comments
3/13/20 City Comments
4/28/20 City Comments
5/22/20 City Comments

9/29/20 Site Plan Revision

PROFESSIONAL SEAL:



DRAWING TITLE:

Utility Plan

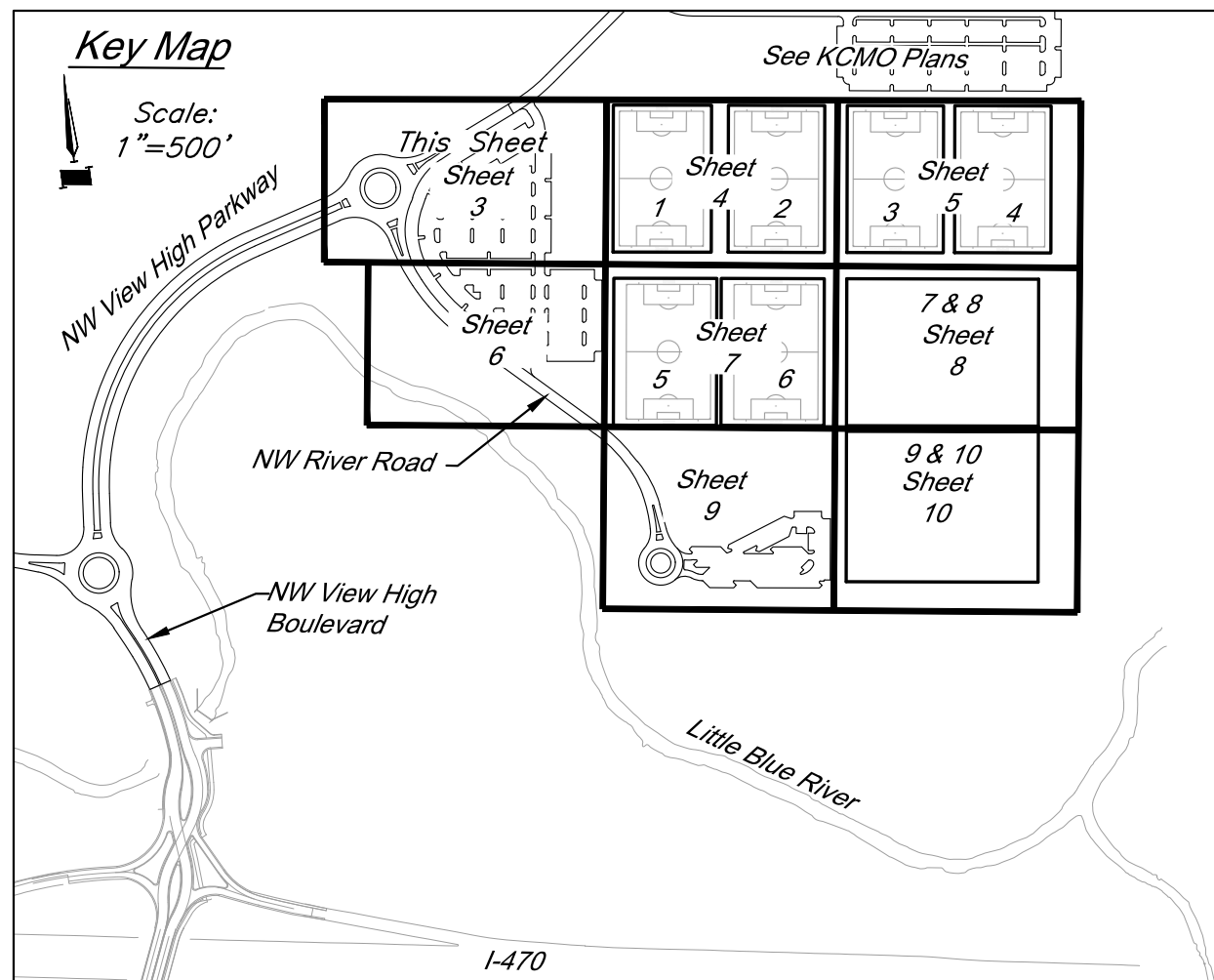
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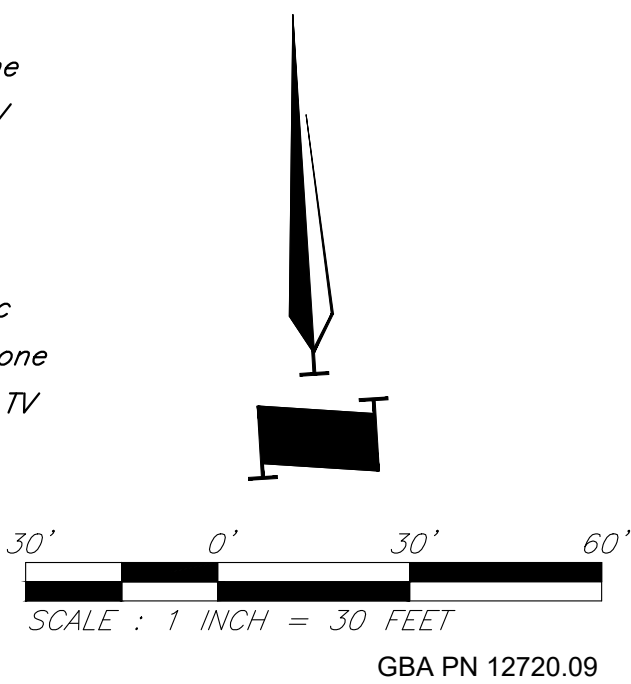
Storm Sewer Construction Notes:

(ST) Connect Perforated 4" HDPE Underdrain to structure 2001, $\bar{E}$ =819.30
Install 150 LF perforated 4" HDPE pipe @ min. 1% as shown.
See pipe underdrain details, sheet 22.

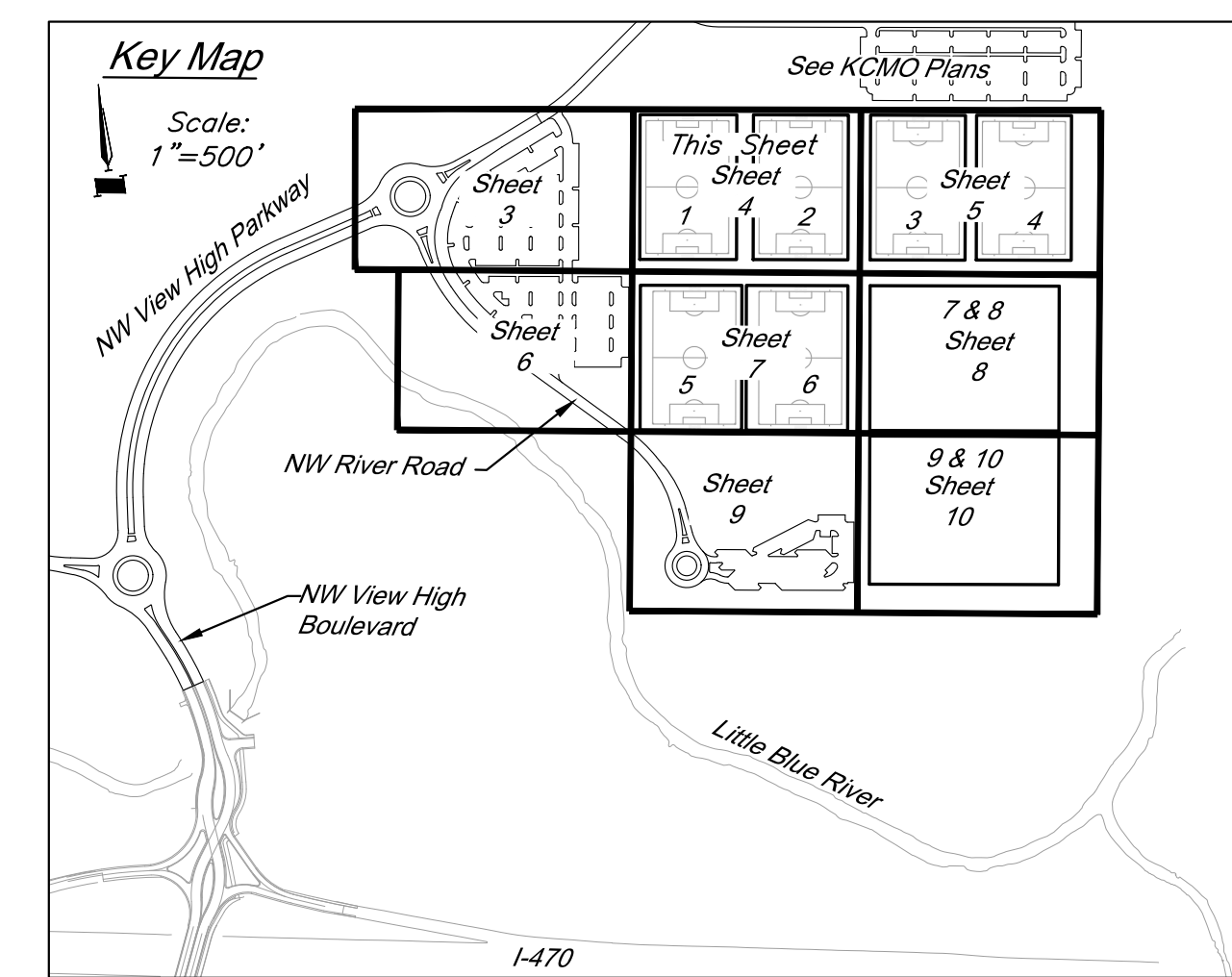
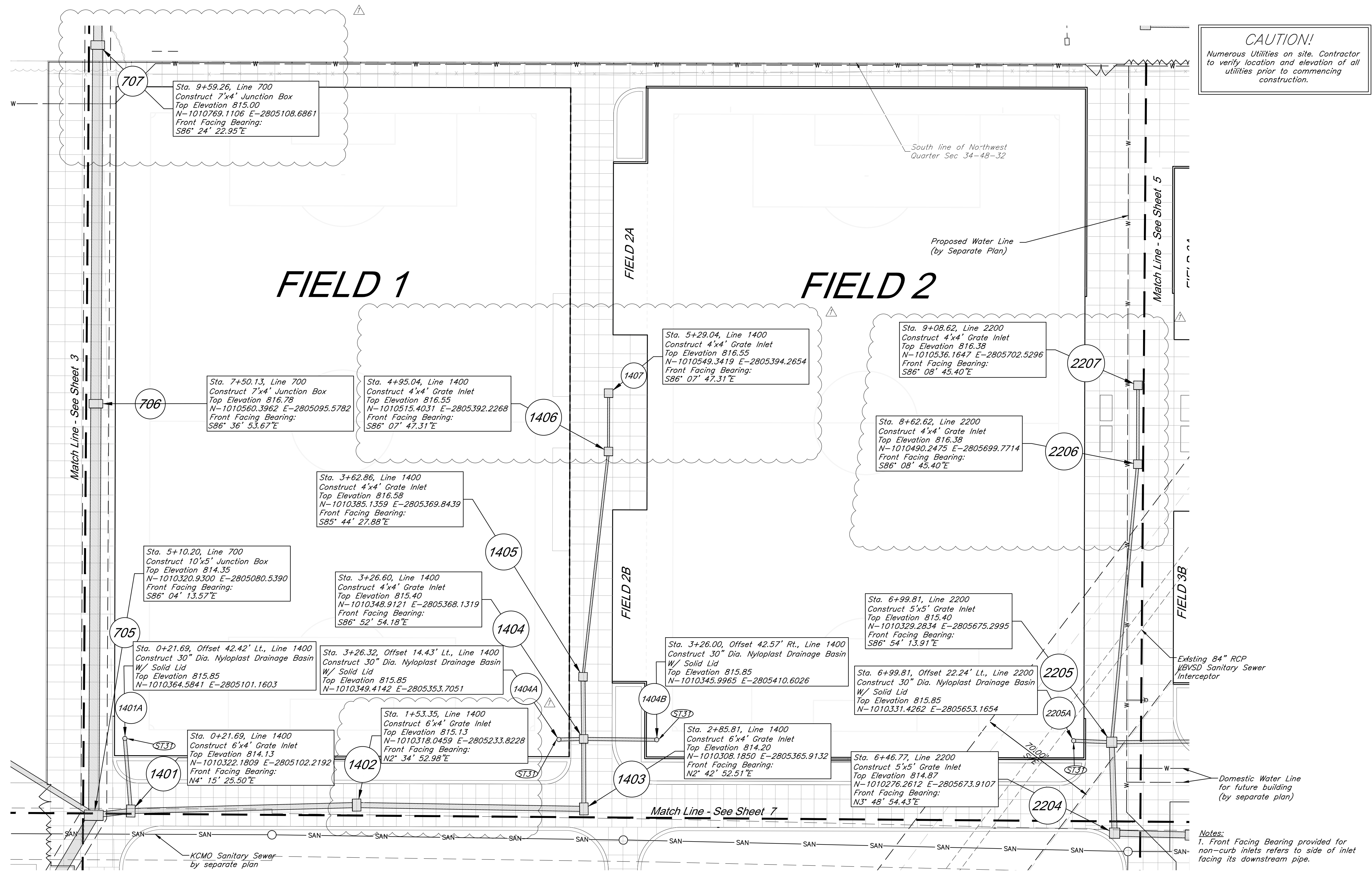
Utility Legend

CATV Ped.	Existing Cable TV Pedestal	W.M.	Existing Water Meter
P.P.	Existing Power Pole	FO	Existing Fiber Optic Line
G.A.	Existing Guy Anchor	FP	Existing Fire Protection Line
EMH	Existing Electrical Manhole	G	Existing Gas Line
E.T.	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
SSMH	Existing Sanitary Sewer Manhole	P.L.	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
Tel. Ped.	Existing Telephone Pedestal	UGT	Existing Underground Telephone
T.S.	Existing Traffic Signal Post	UGTV	Existing Underground Cable TV
FMH	Existing Traffic Manhole	W	Existing Water Line
F.H.	Existing Fire Hydrant	Proposed Storm Sewer	Existing Storm Sewer
		Underdrain	

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
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LEE'S SUMMIT, MISSOURI
10/20/2020



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Storm Sewer Construction Notes:
(ST3) See Soccer Complex Plans for field drainage continuation

Utility Legend

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

Notes:
1. Front Facing Bearing provided for non-curb inlets refers to side of inlet facing its downstream pipe.

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LEE'S SUMMIT, MISSOURI
10/20/2020

Scale:
30' 0' 30' 60'
SCALE : 1 INCH = 30 FEET

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

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MO Certificate of Authority # 000133

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317 SE Main
Lee's Summit, MO 64063
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2100 Central Street, Suite 01C
Kansas City, MO 64108
816.510.0438
www.hoerschaudt.com
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Lenexa, KS 66214
913.742.5000
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Missouri Certificate of Authority # 000556

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PROJECT:

Paragon Star Soccer Complex
Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081
Field Storm Sewer Plans

ISSUE:

10/17/19	City Comments
3/13/20	City Comments
4/28/20	City Comments
5/22/20	City Comments
9/29/20	Site Plan Revision



DRAWING TITLE:

Utility Plan

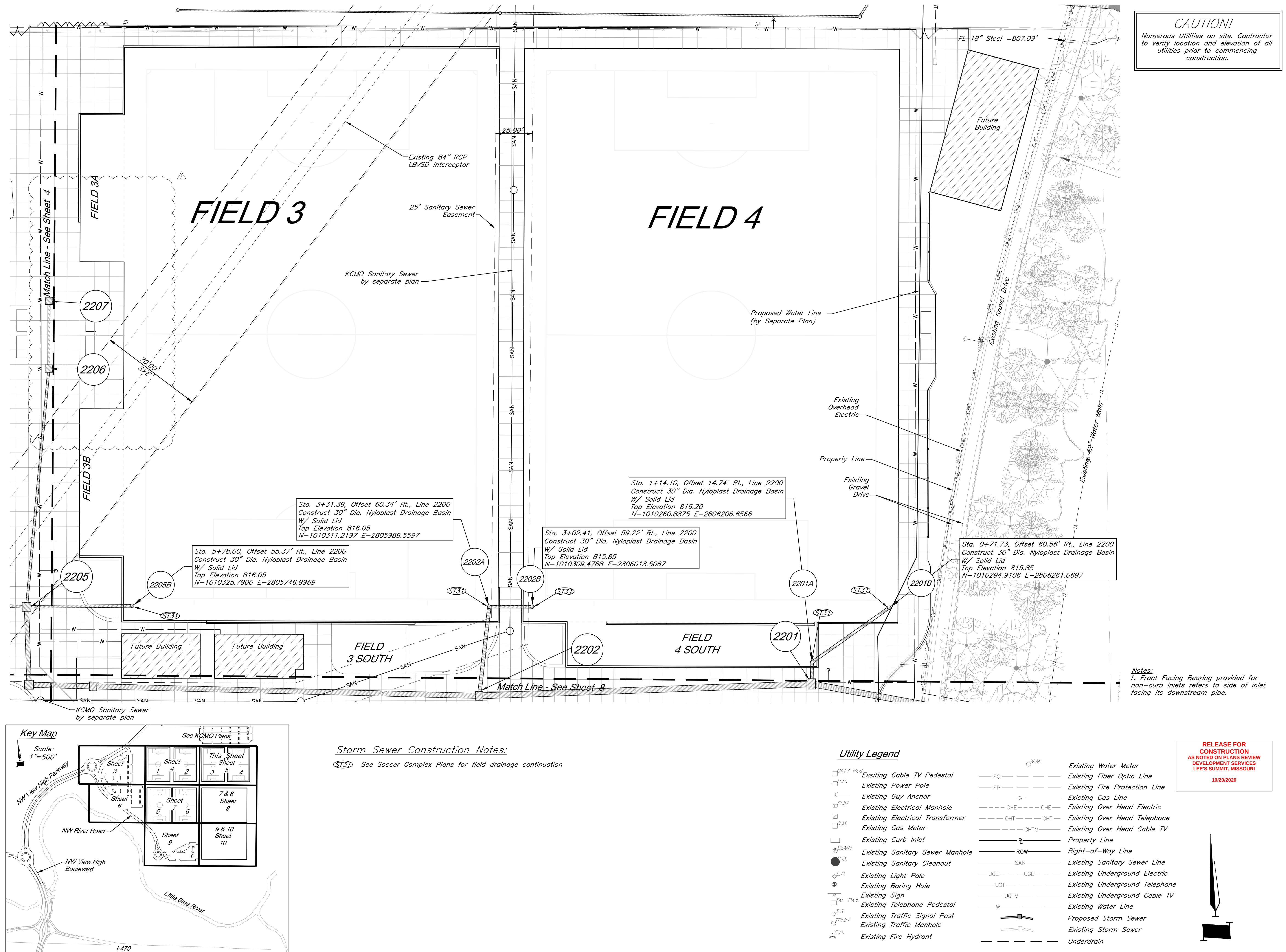
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DATE: 05.22.2020 DRAWN BY: GBA

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Lee's Summit, MO 64063
www.land3studio.com
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Lenexa, KS 66214
913.742.5000
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FINKLE + WILLIAMS Architecture
7007 College Boulevard, Suite 415
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913.498.1550
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PROJECT

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE

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5/22/20	City Comments

9/29/20 Site Plan Revision

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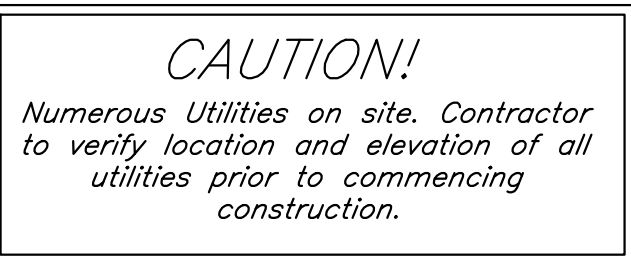
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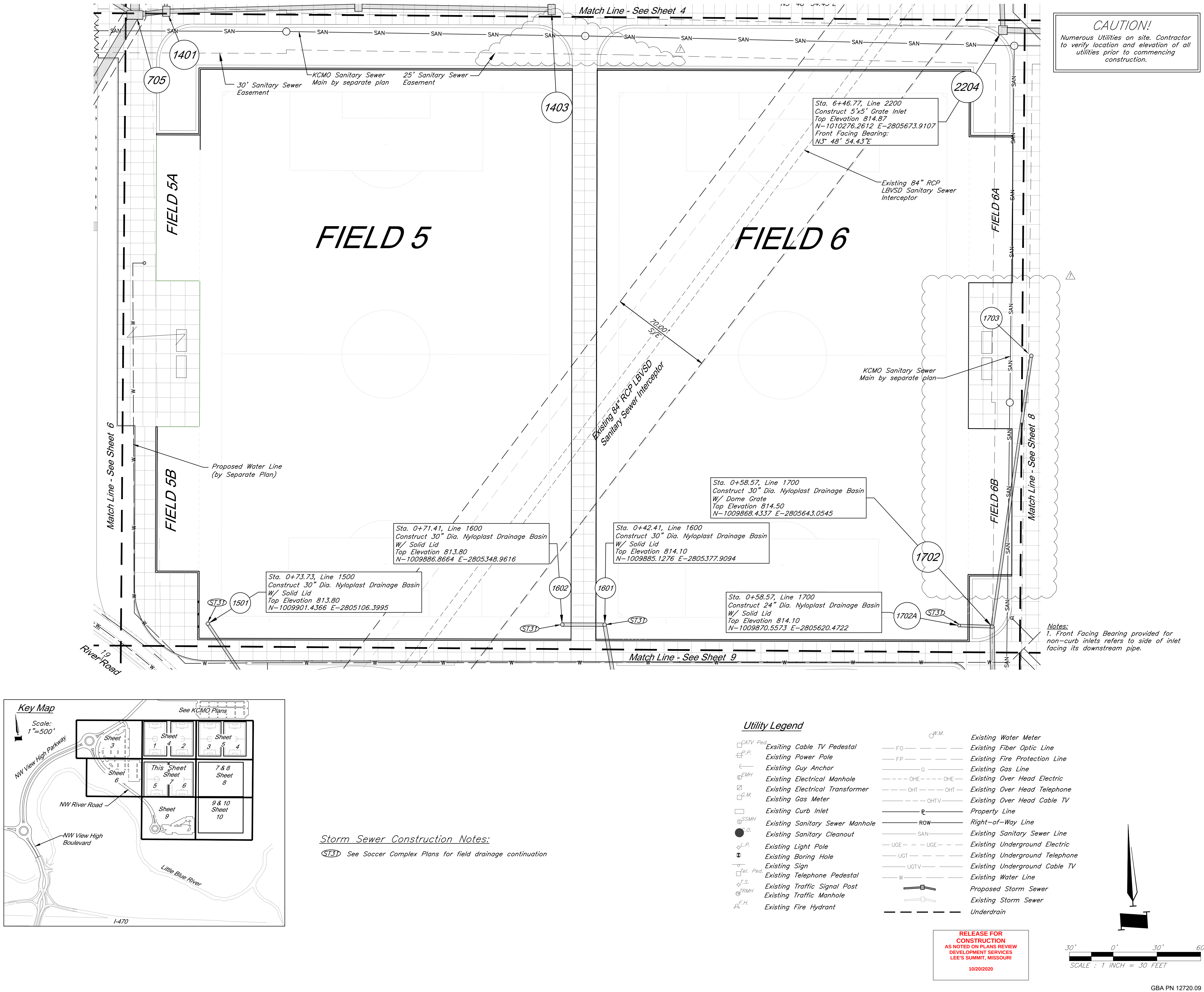
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Utility Plan

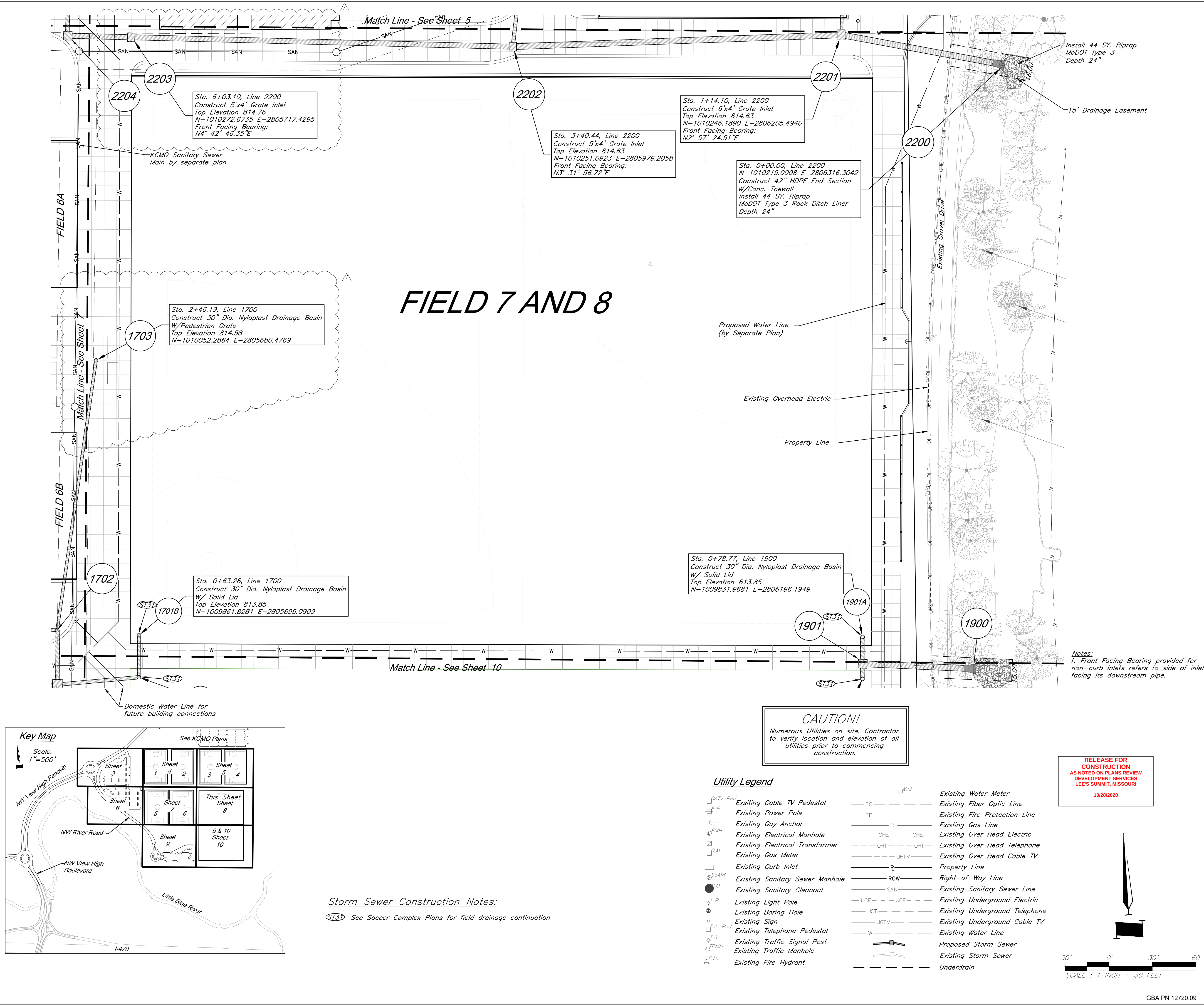
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www.he-inc.com
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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer

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

Field Storm Sewer Plans

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5/22/20 City Comments

9/29/20 Site Plan Revision

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DRAWING TITLE:

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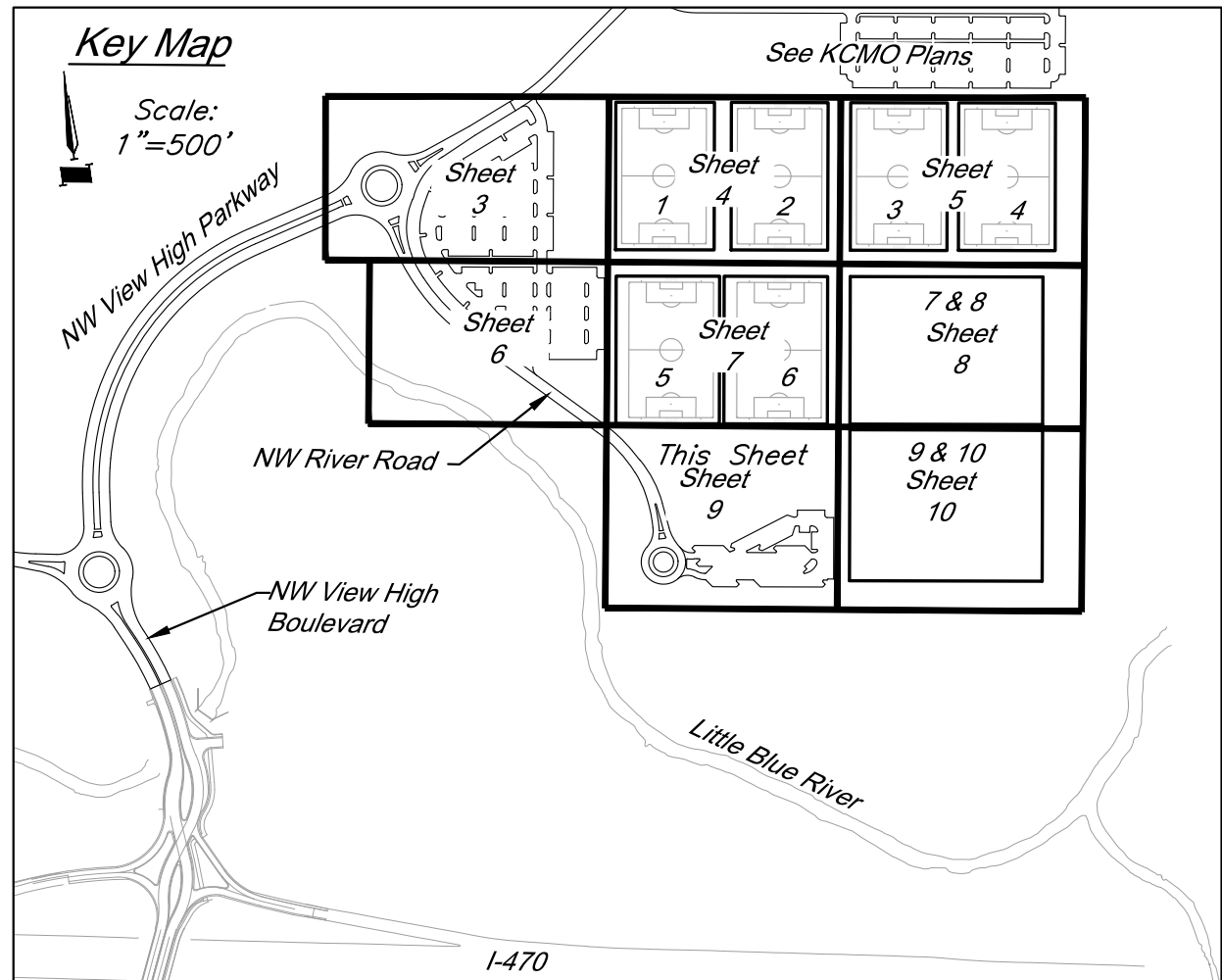
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DATE: 05.22.2020
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SCALE:

1" = 30'

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8



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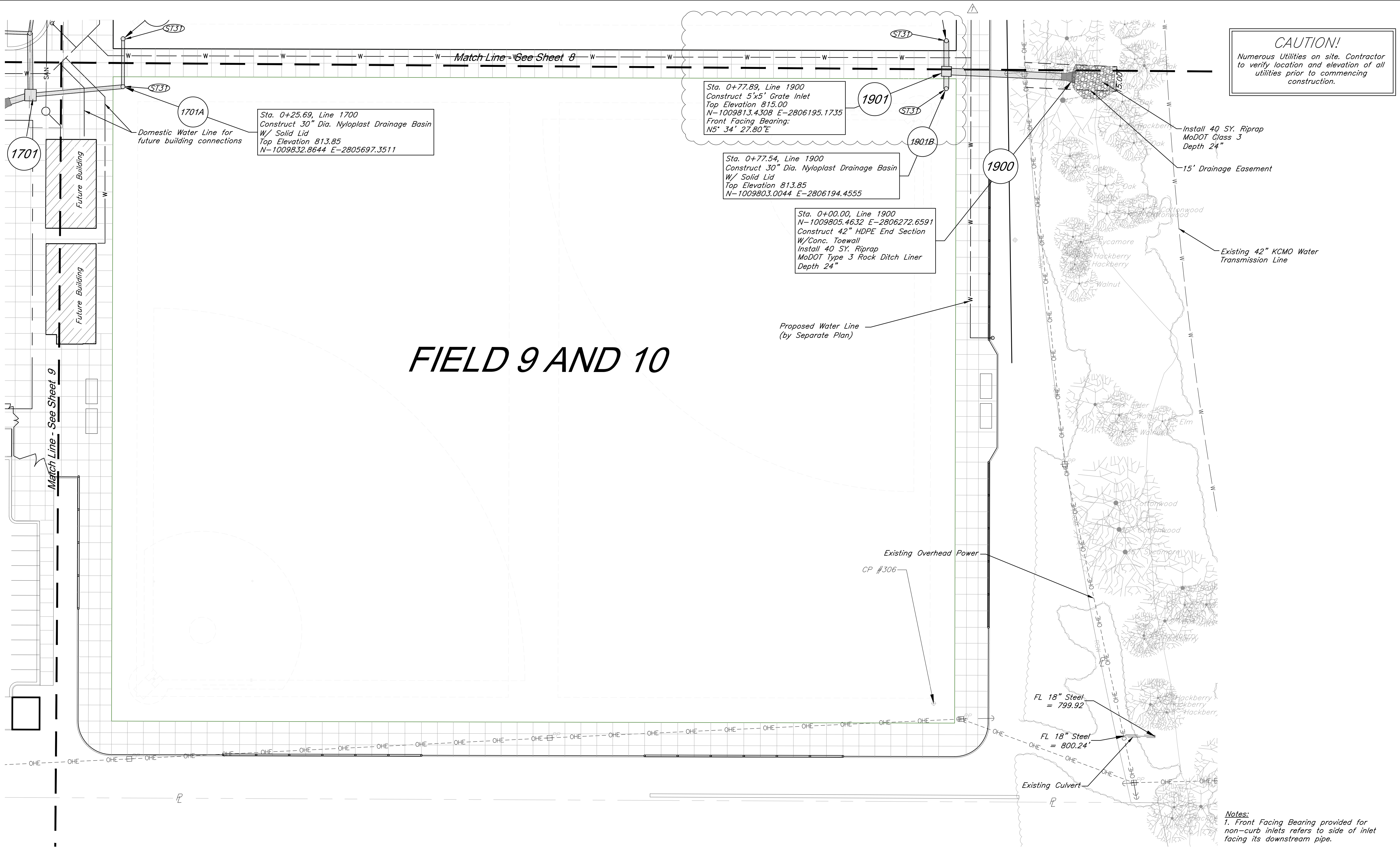
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www.land3studio.com
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2100 Central Street, Suite 01C
Kansas City, MO 64108
816.510.0438
www.hoerschaudt.com
MO Certificate of Authority # 2019040688

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8345 Lenexa Drive
Lenexa, KS 66214
913.742.5000
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Overland Park, KS 66211
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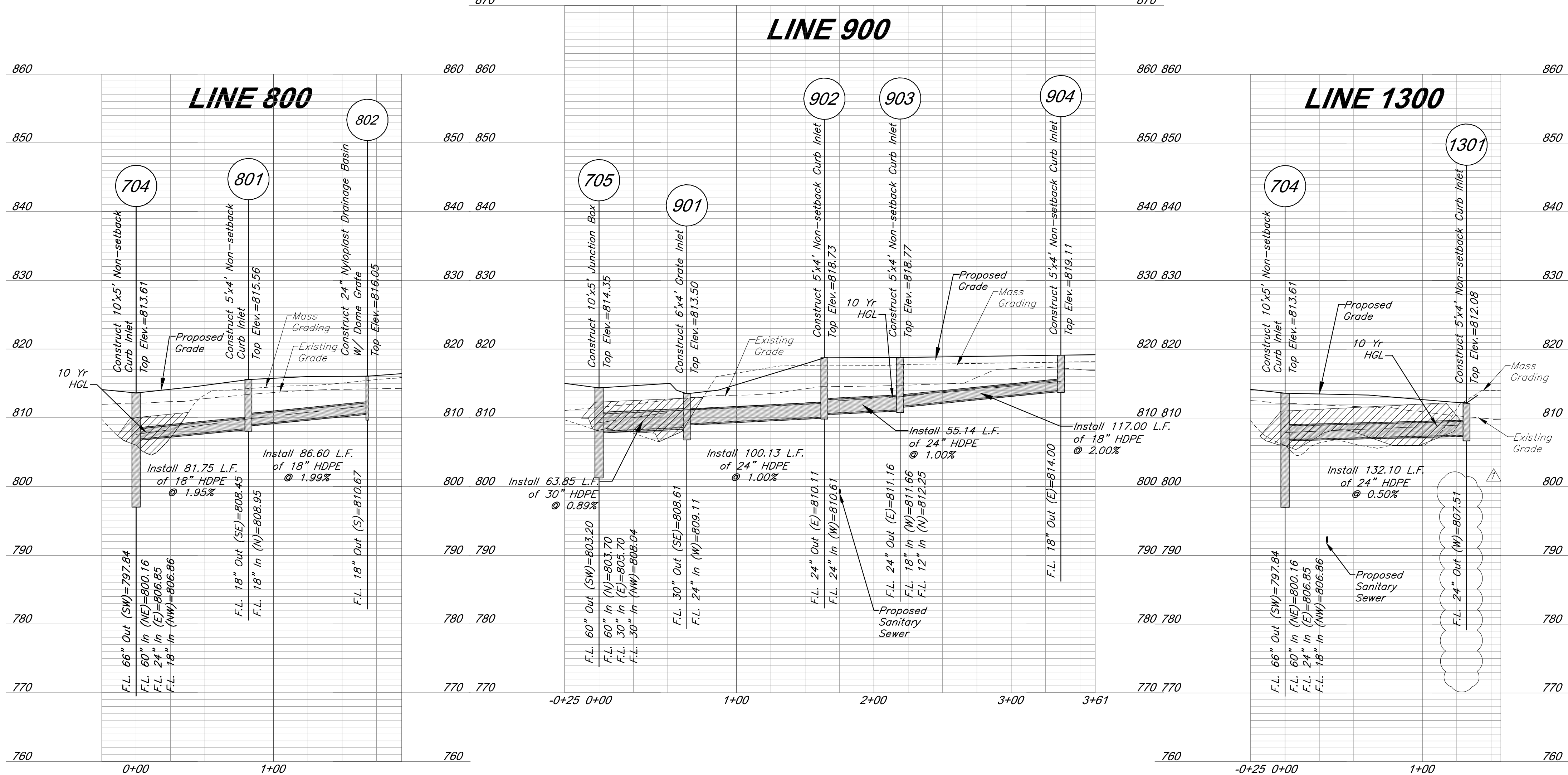
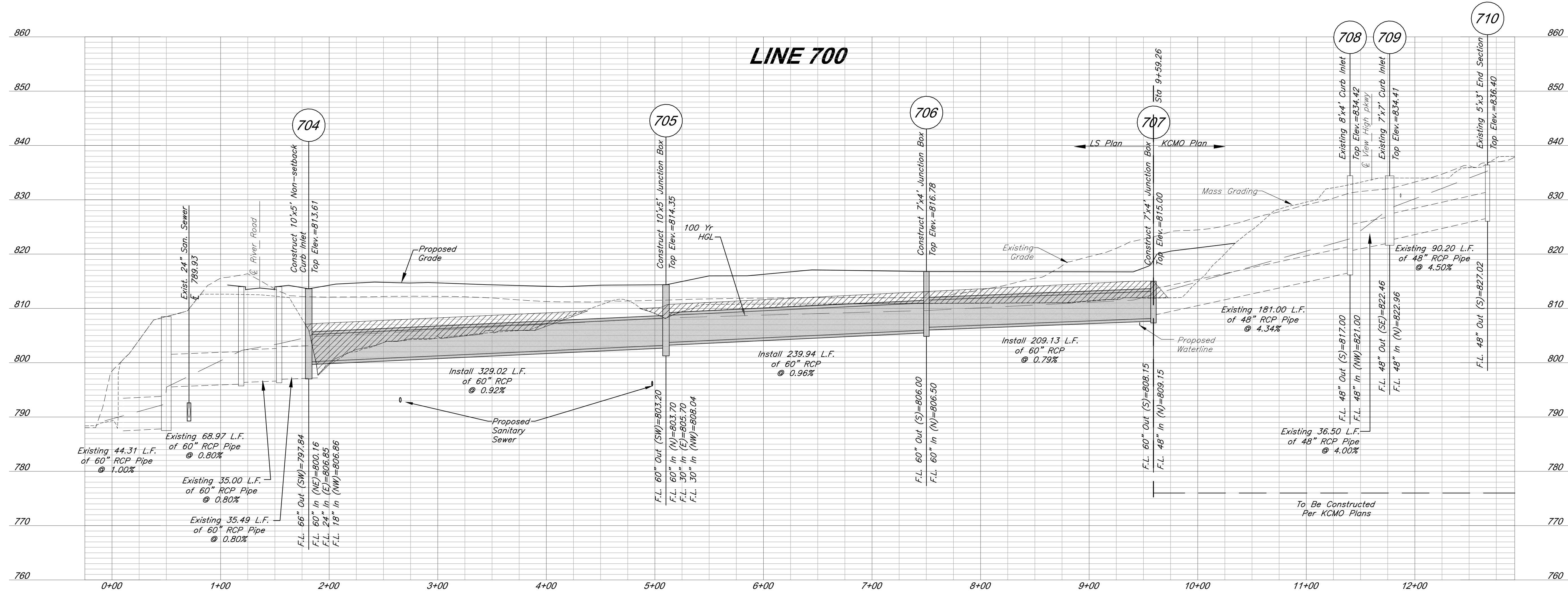
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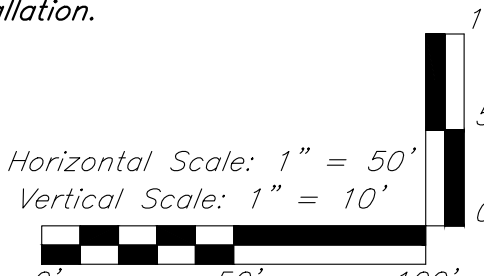
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LEGEND

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/20/2020



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

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2100 Central Street, Suite 01C
Kansas City, MO 64108
816.510.0438
www.hoerschaudt.com
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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer

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

Field Storm Sewer Plans

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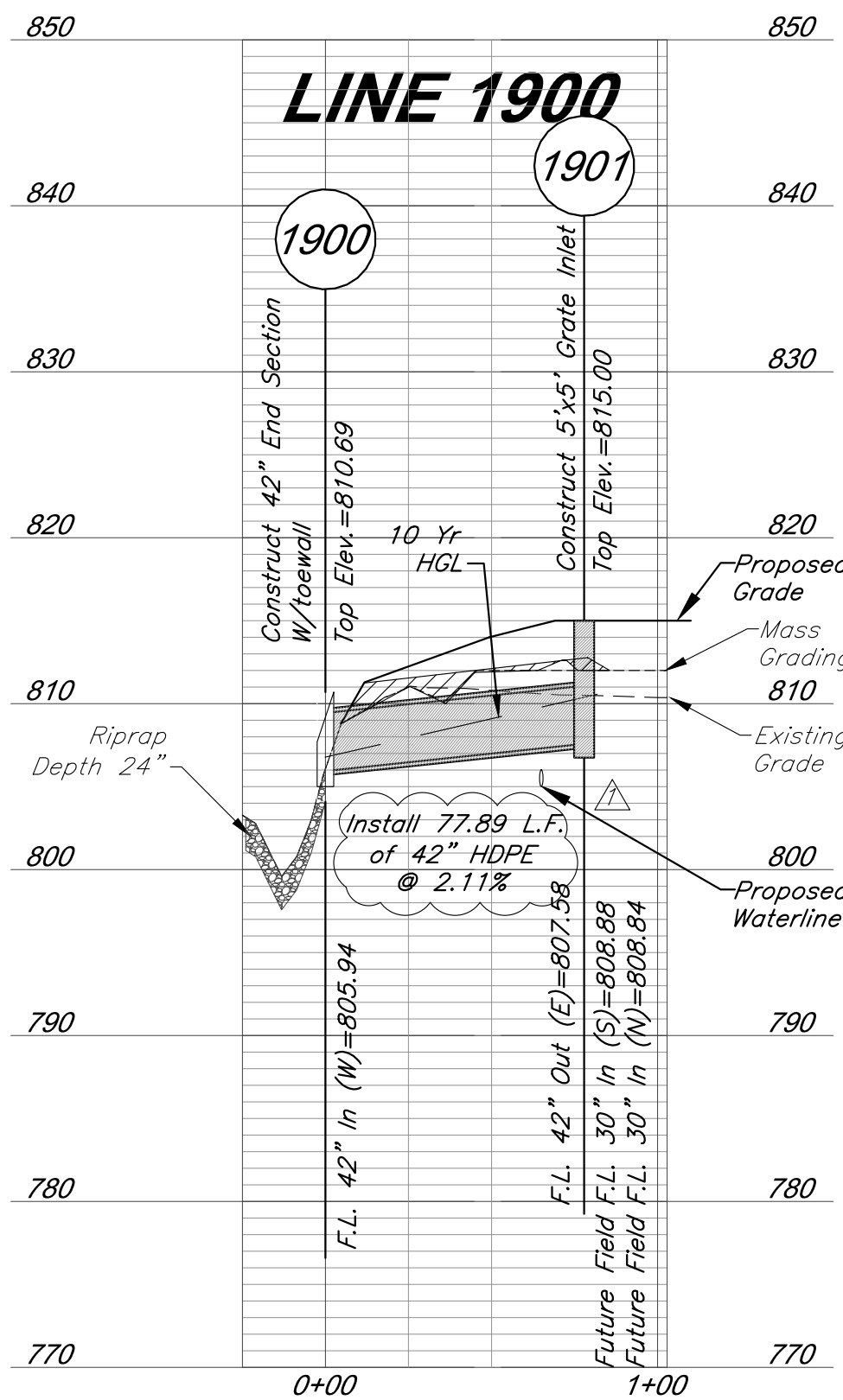
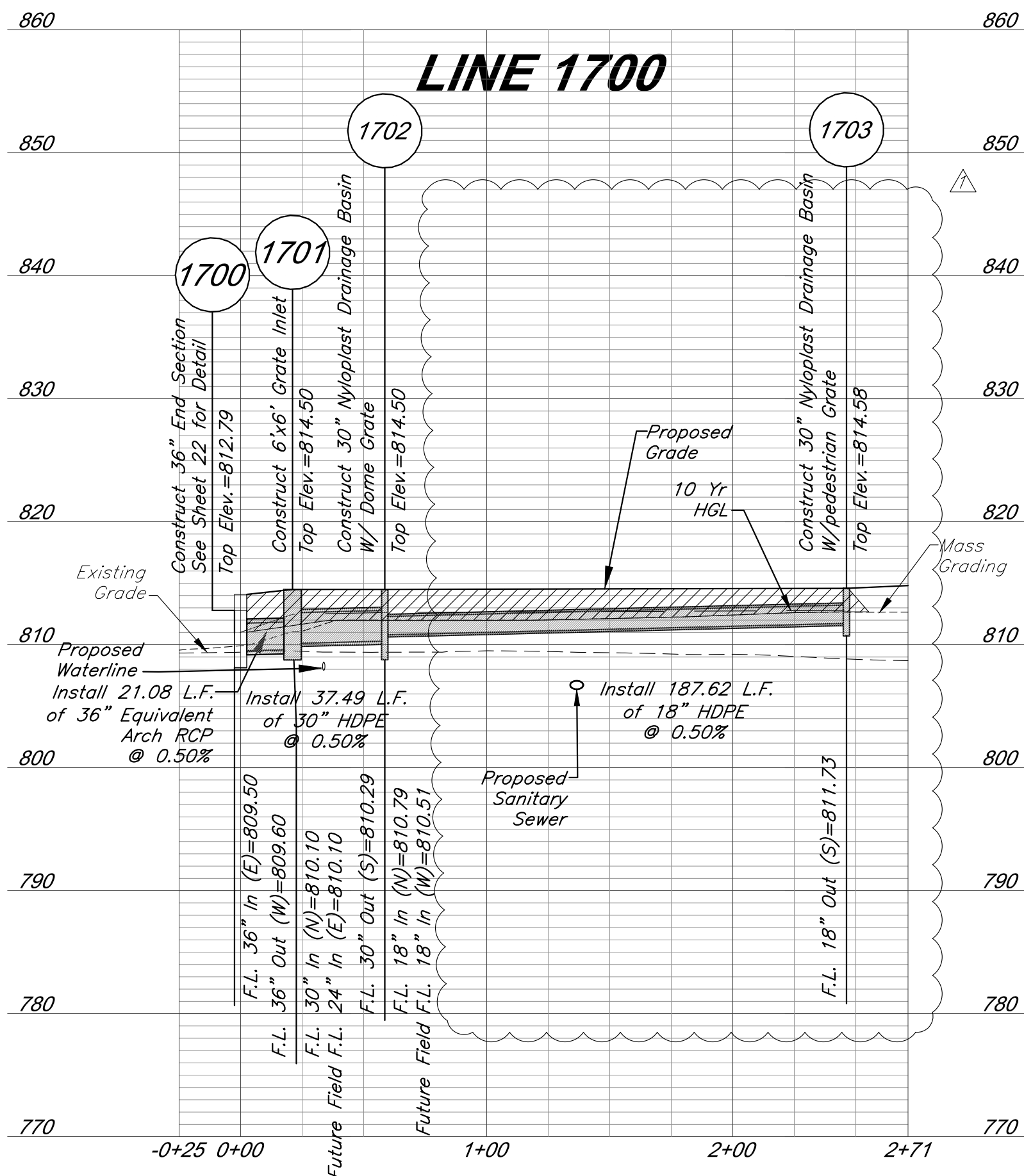
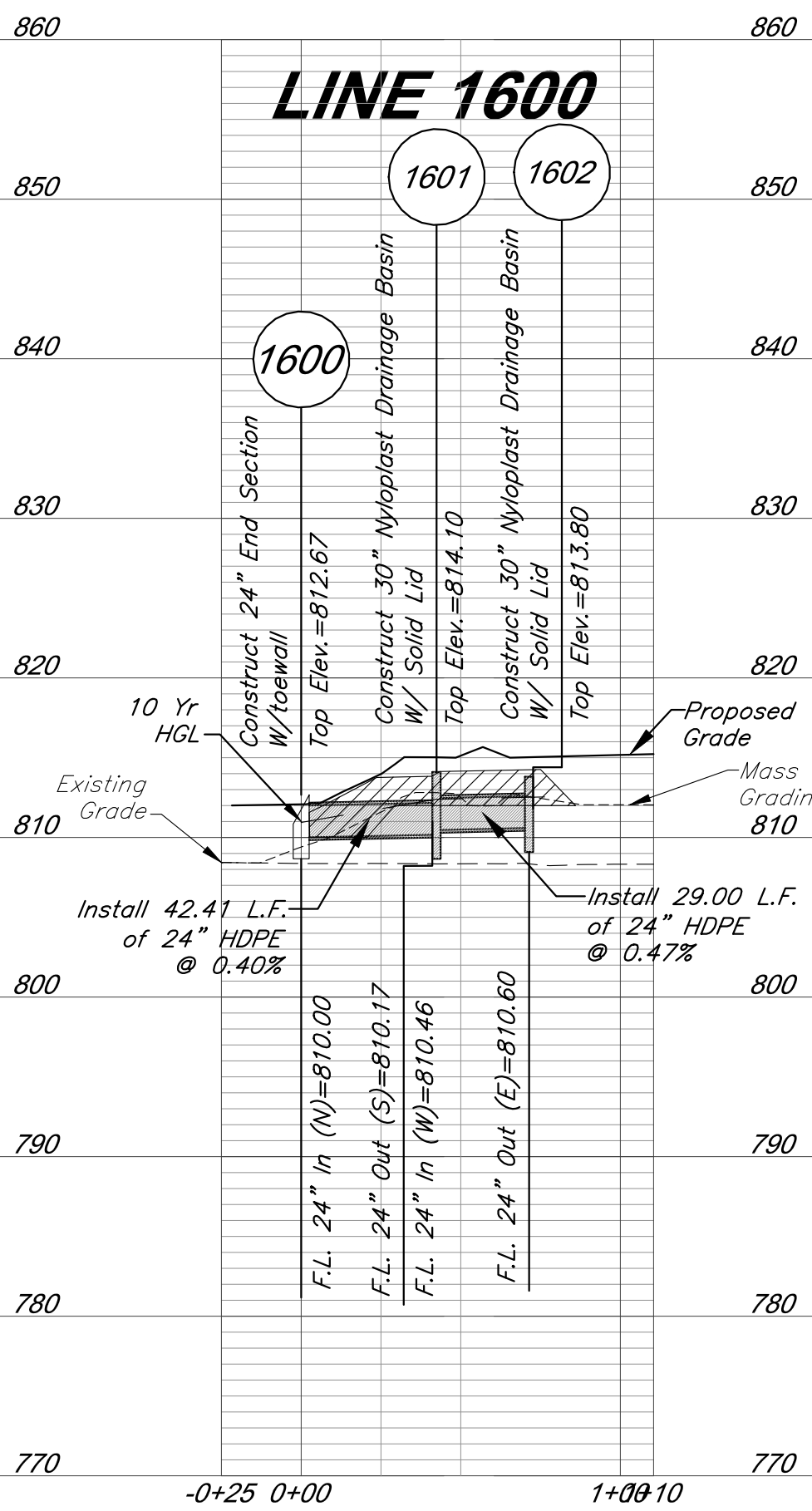
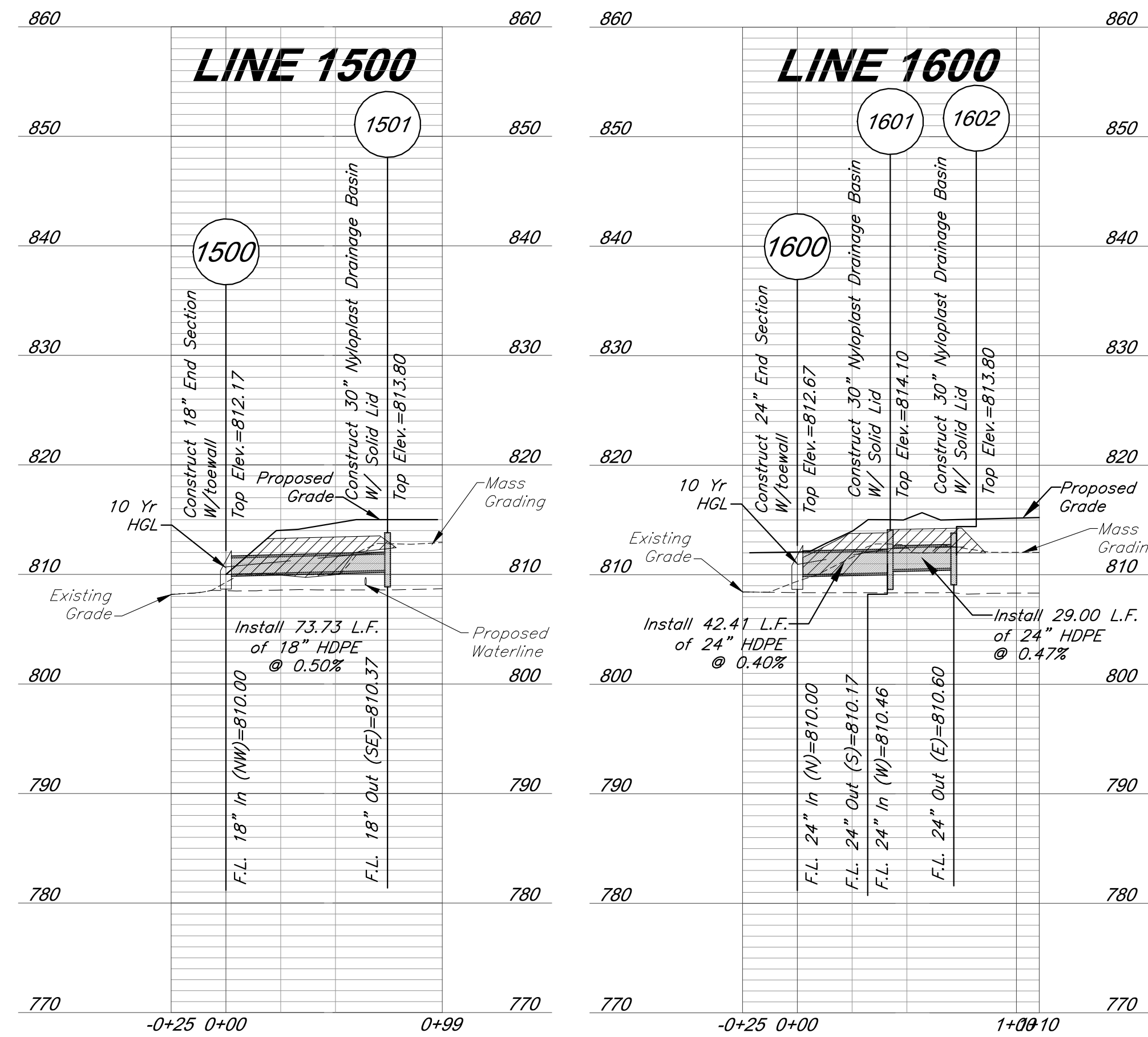
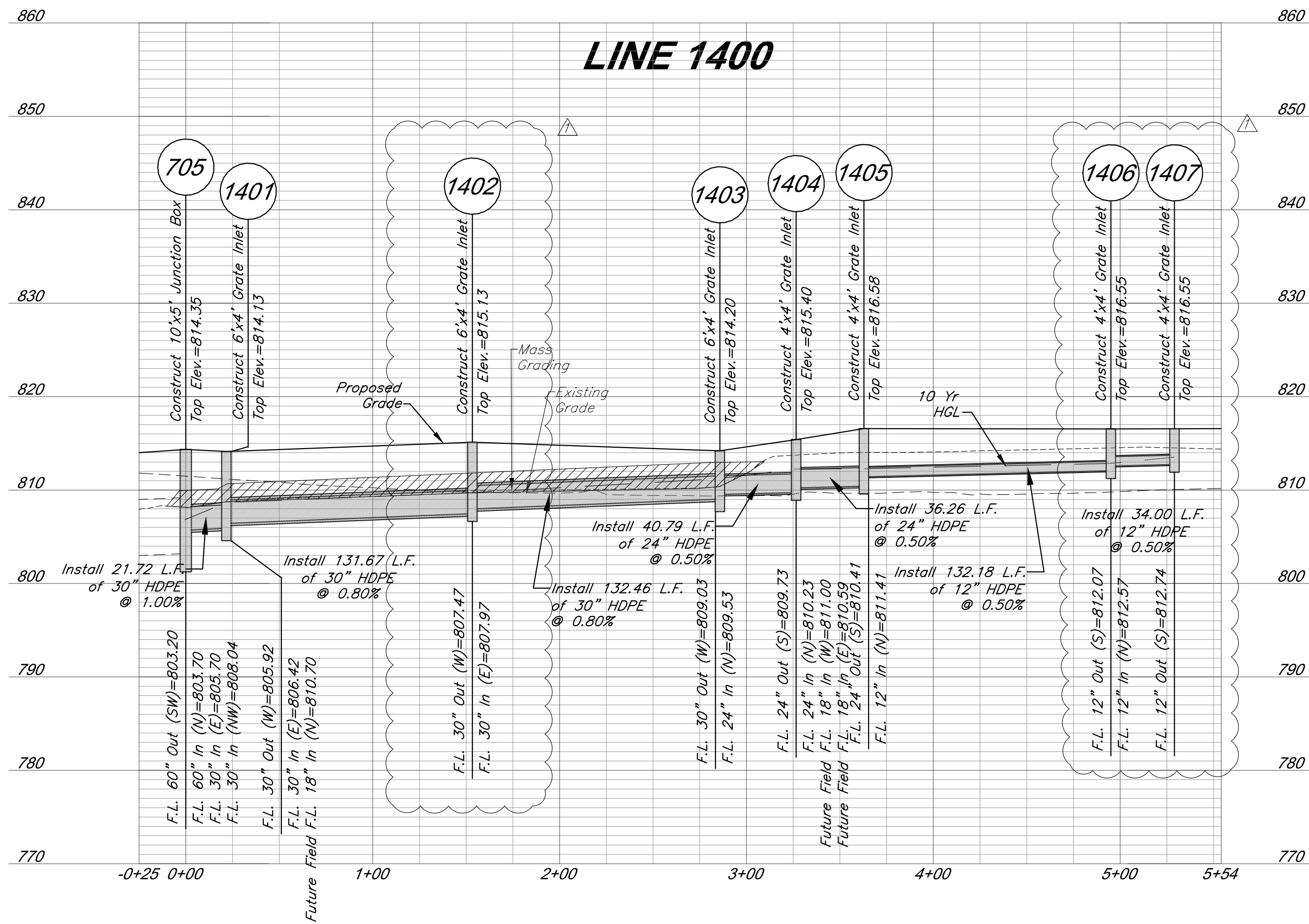


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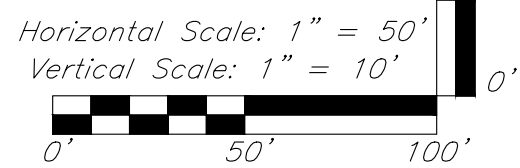
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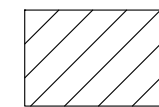


Note: Tops of Nyloplast Basins at the corners of soccer fields are set at field subgrades, underneath turf cover.

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



LEGEND



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816.510.0438
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www.he-eng.com
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www.finklewilliams.com
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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer

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Field Storm Sewer Plans

ISSUE:

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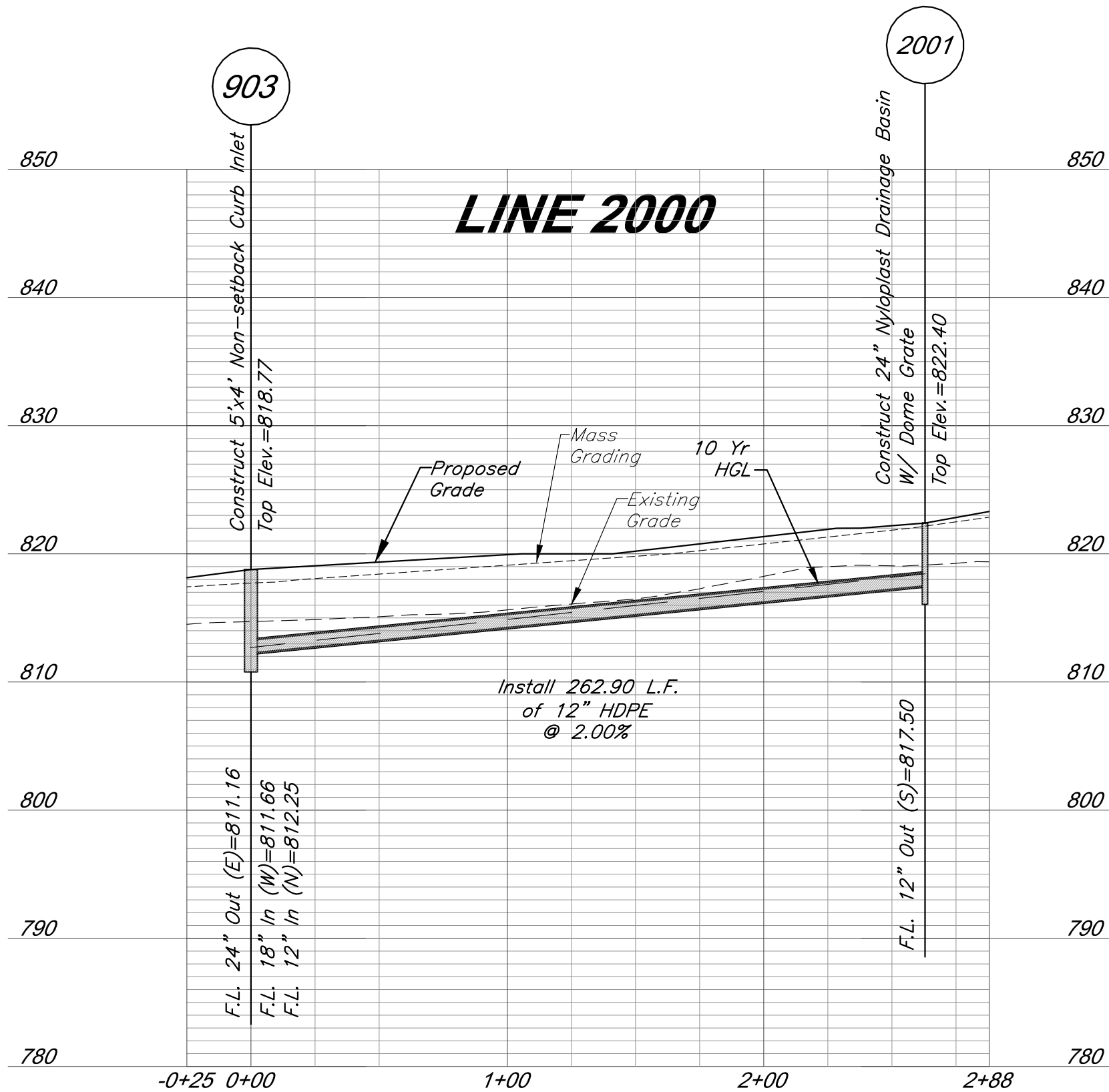
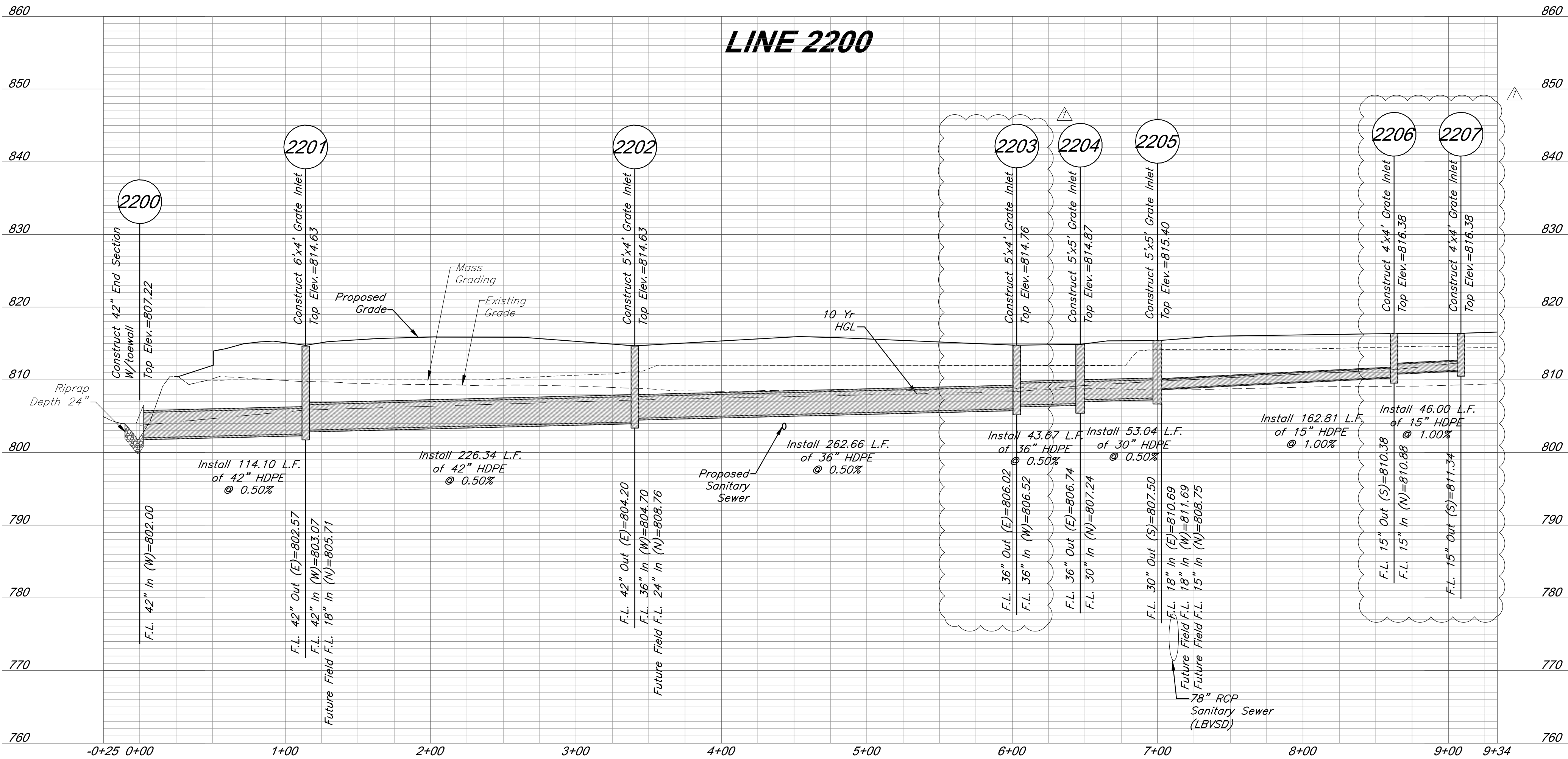
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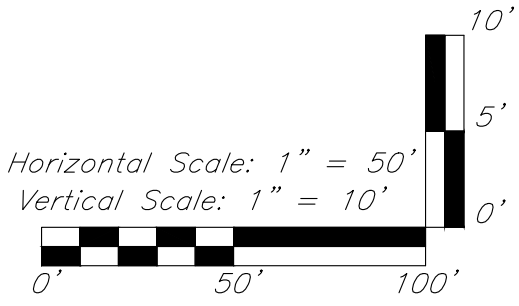
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Note: Compacted Fill shall be placed to a minimum of 18 inches above the top of pipe prior to installation.



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www.gbaleam.com
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317 SE Main
Lee's Summit, MO 64063
www.land3studio.com
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Hoerr Schaudt Landscape Architects
2100 Central Street, Suite 01C
Kansas City, MO 64108
816.510.0438
www.hoerschaudt.com
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Lenexa, KS 66214
913.742.5000
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PROJECT:

Paragon Star Soccer Complex

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Field Storm Sewer Plans

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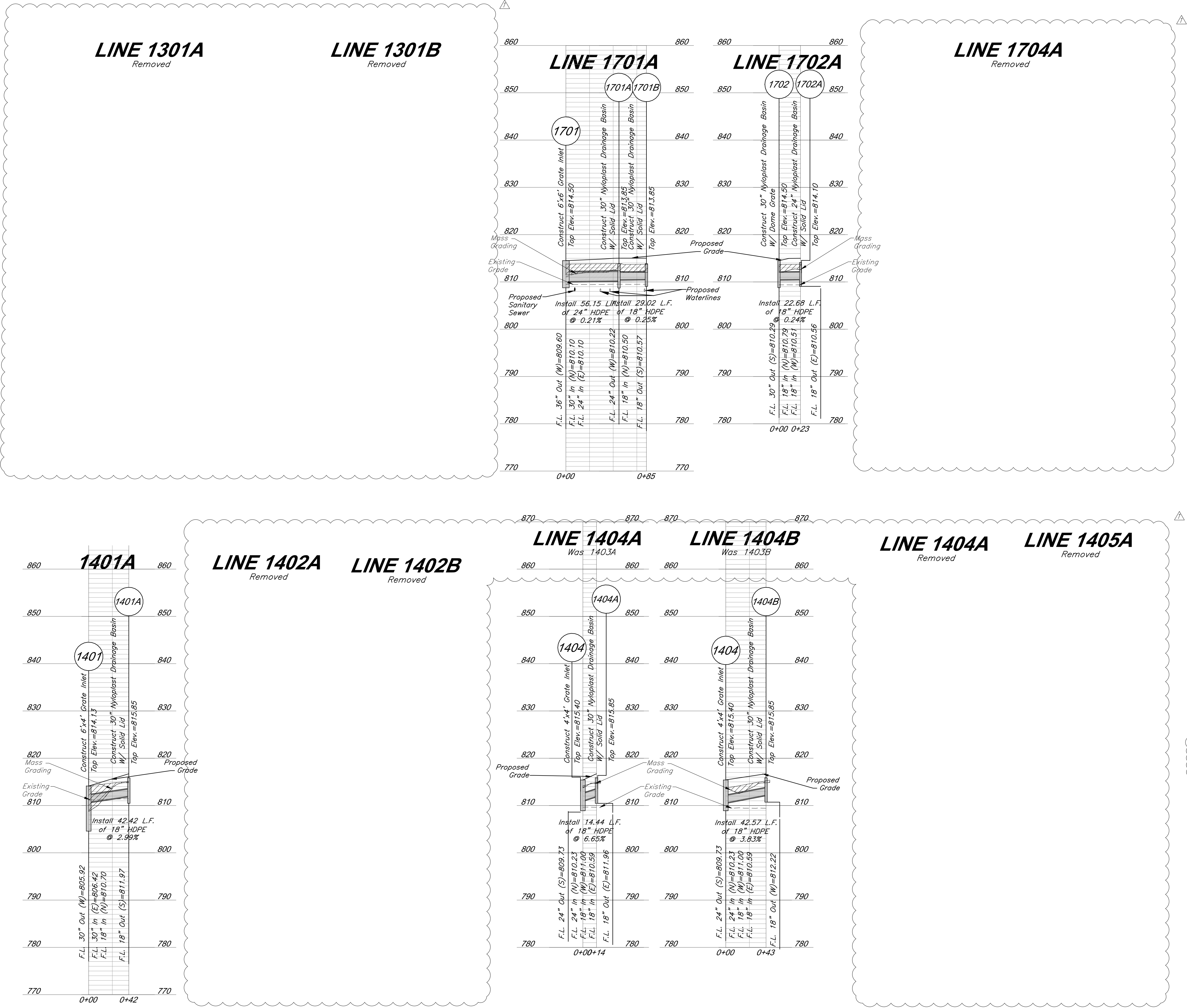
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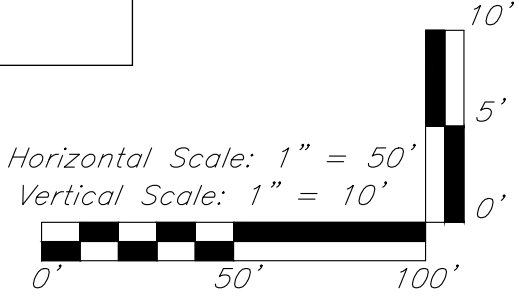


Note: Tops of Nyloplast Basins at the corners of soccer fields are set at field subgrades, underneath turf cover.

LEGEND

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

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317 SE Main
Lee's Summit, MO 64063
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Kansas City, MO 64108
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8345 Lenexa Drive
Lenexa, KS 66214
913.742.5000
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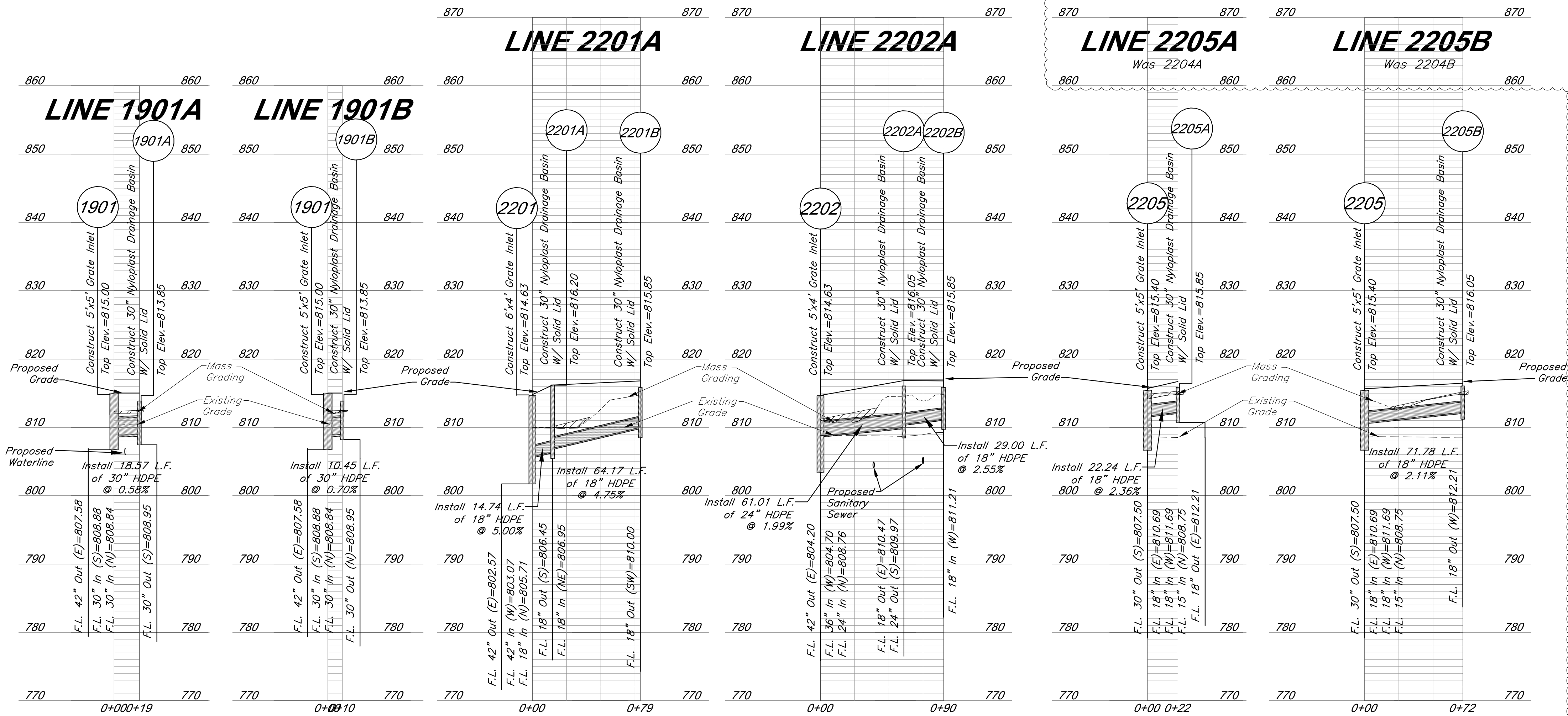
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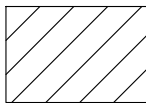
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Storm Sewer
Profiles

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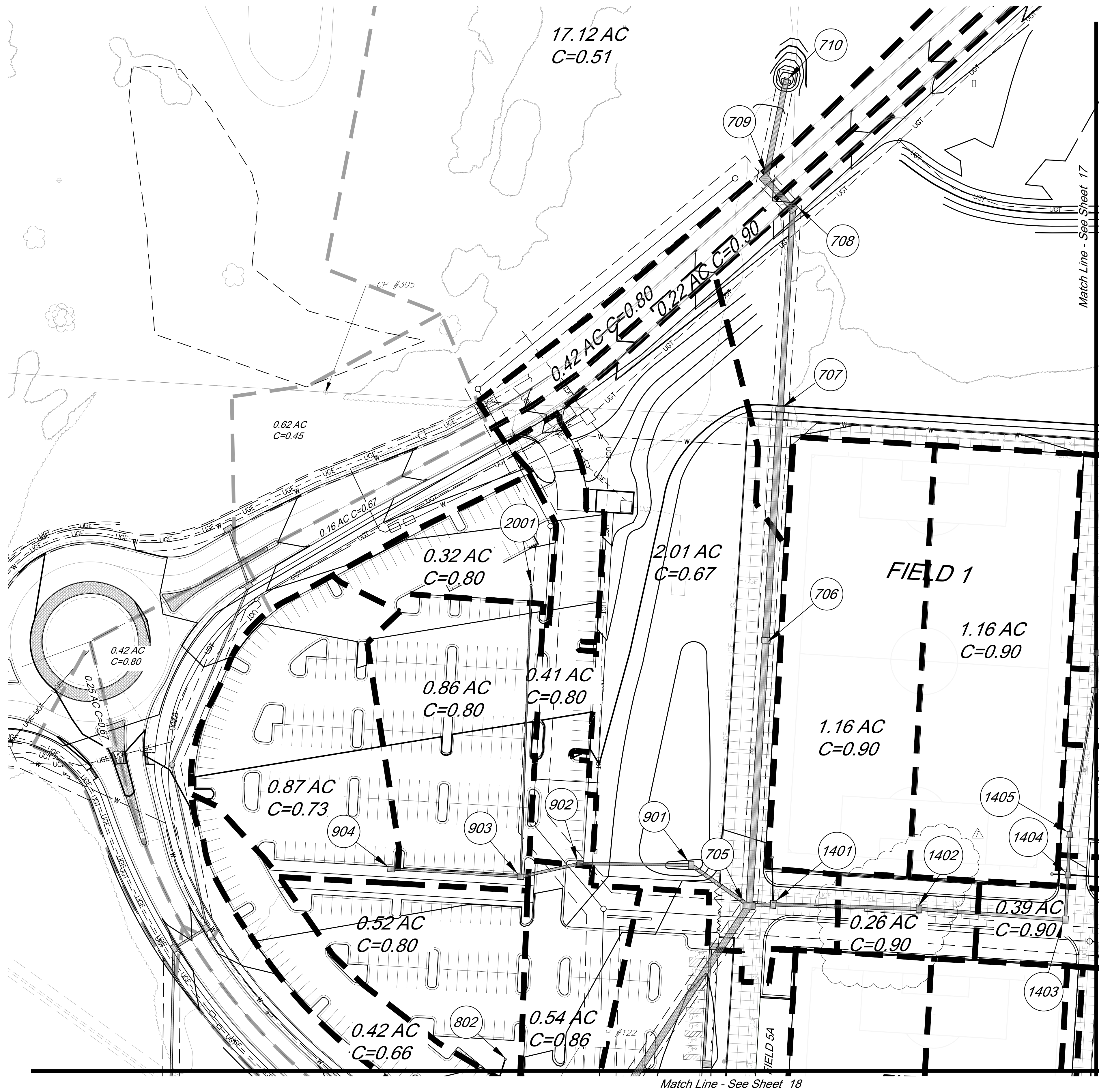
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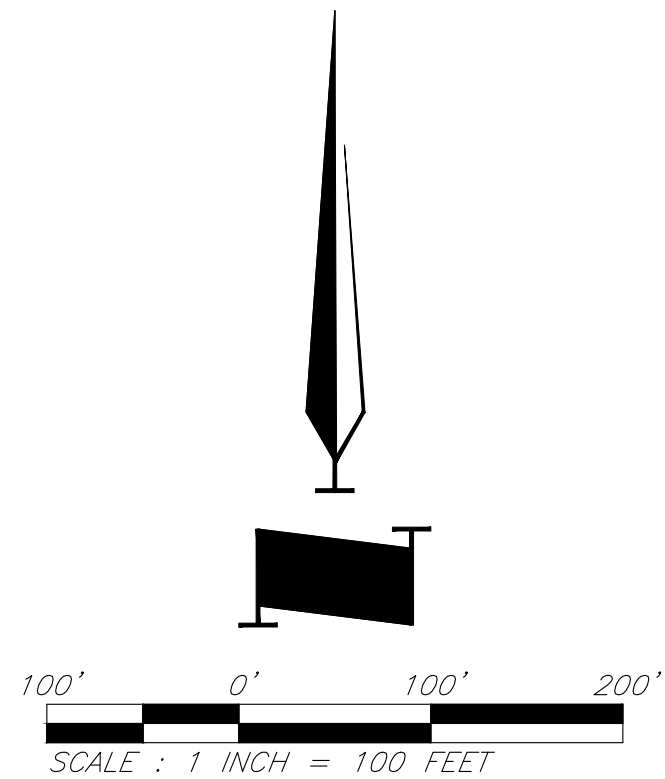
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- Legend**
- 800 Proposed Contours
 - 800 Existing Contour
 - Proposed Drainage Area
 - 0.28 Acres Drainage Area
 - Proposed Storm Sewer
 - Future Storm Sewer



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CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/20/2020

GBA PN 12720.09

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913.498.1550
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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19 City Comments
3/13/20 City Comments
4/28/20 City Comments
5/22/20 City Comments

9/29/20 Site Plan Revision

PROFESSIONAL SEAL:



DRAWING TITLE:

Drainage Map

JOB NO: 1197

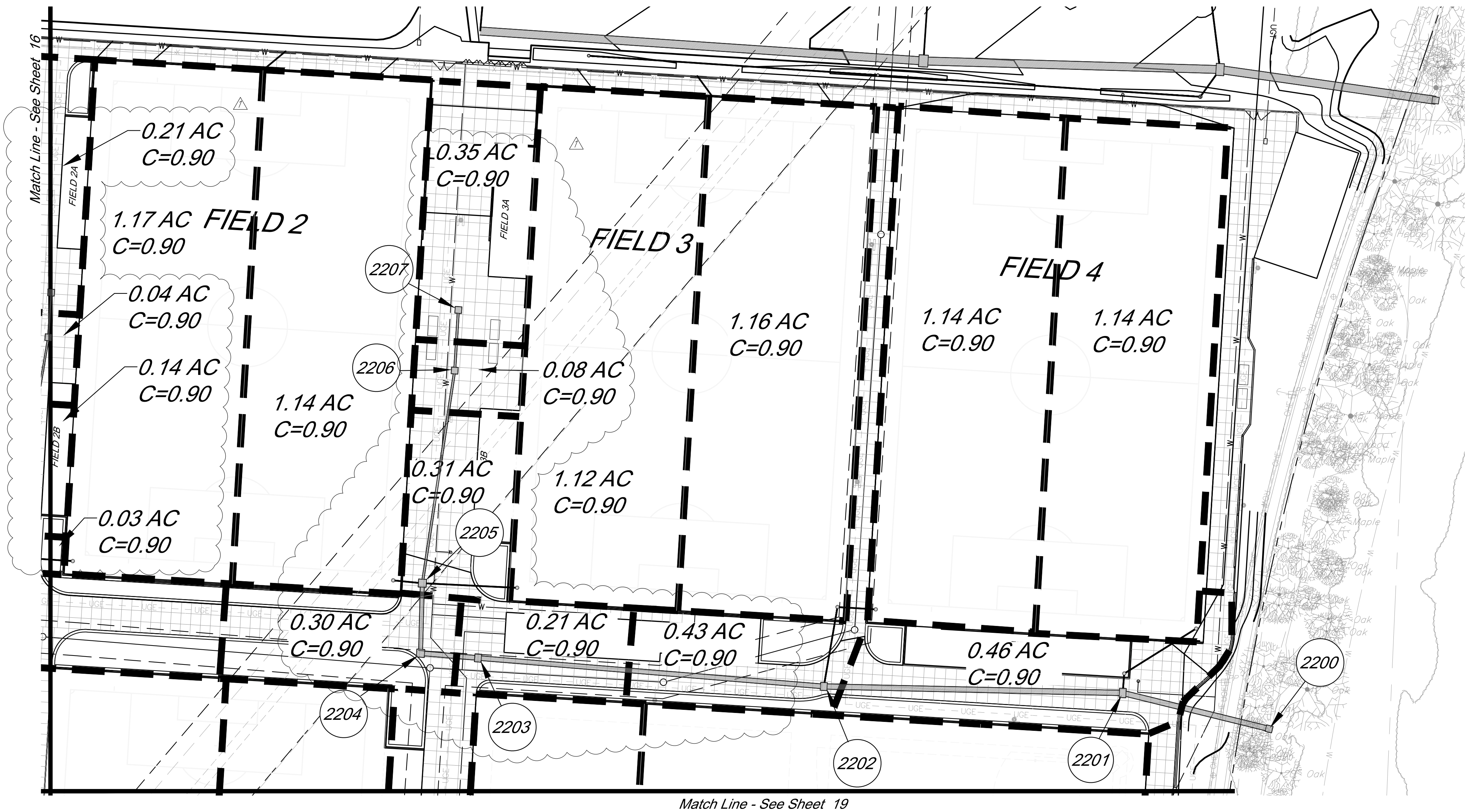
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DATE: 05.22.2020 DRAWN BY: GBA

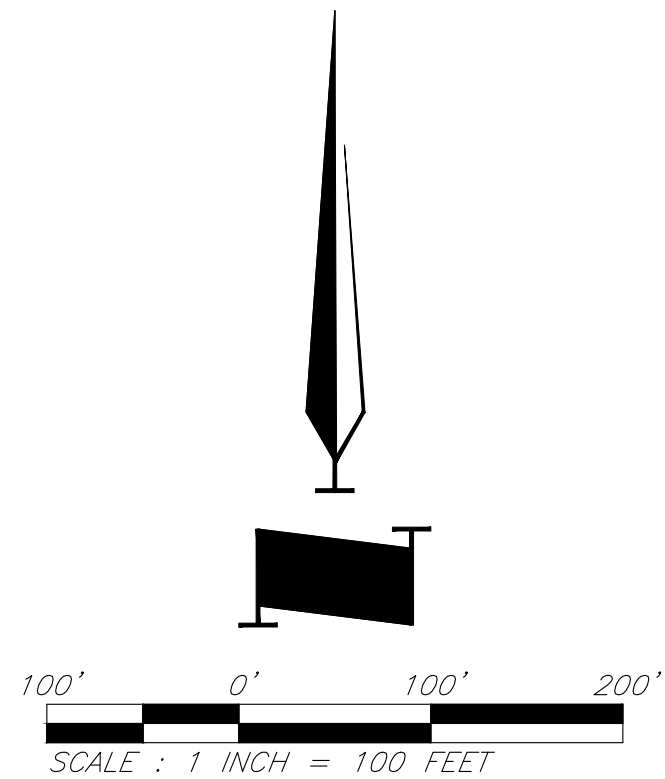
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913.492.0400
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MO Certificate of Authority # 000133

LAND3 Studio, LLC
317 SE Main
Lee's Summit, MO 64083
www.land3studio.com
MO Certificate of Authority # 2008001860

Hoerr Schaudt Landscape Architects
2100 Central Street, Suite 01C
Kansas City, MO 64108
816.510.0438
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913.742.5000
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7037 College Boulevard, Suite 415
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913.498.1550
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Paragon Star Soccer Complex

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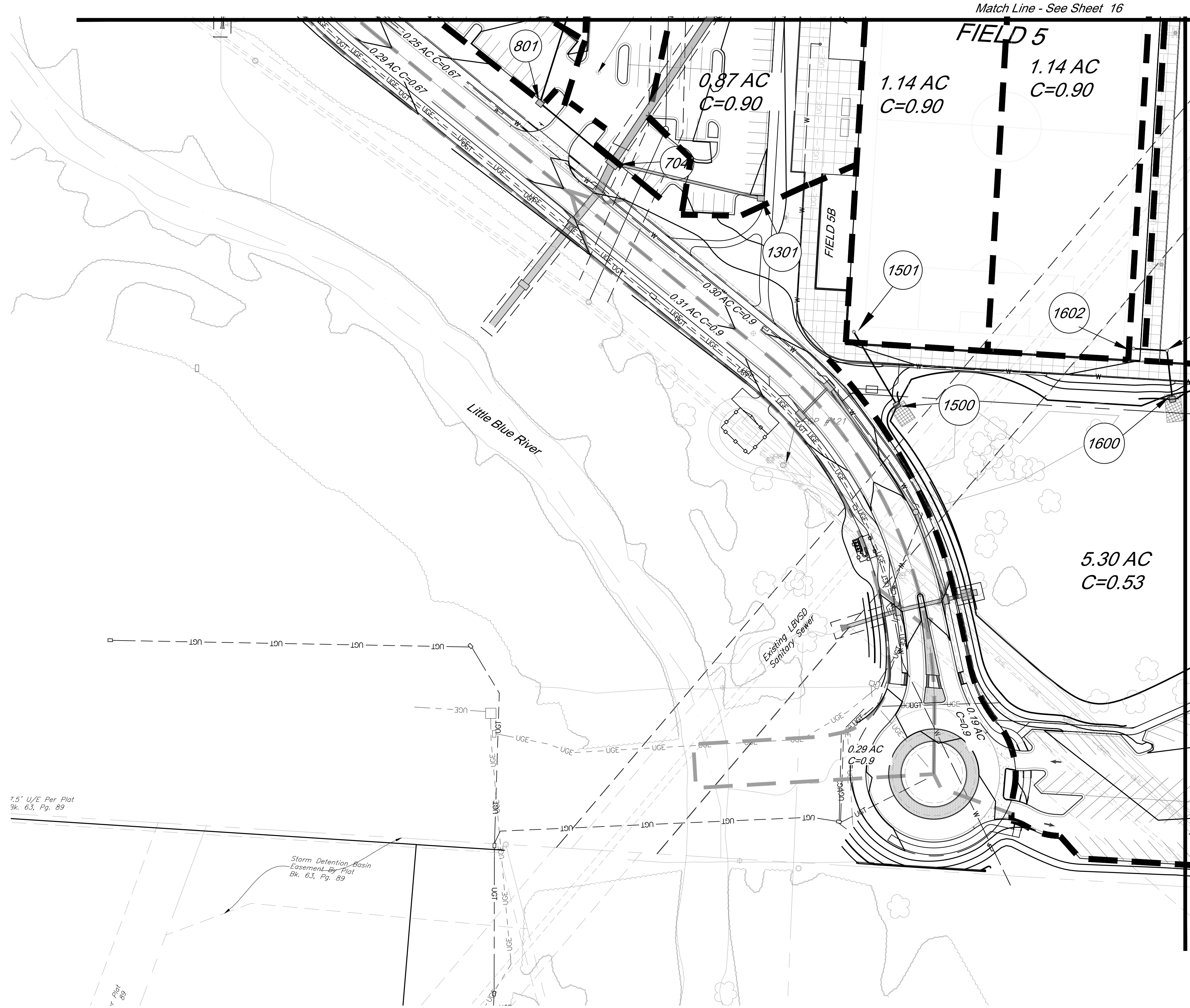
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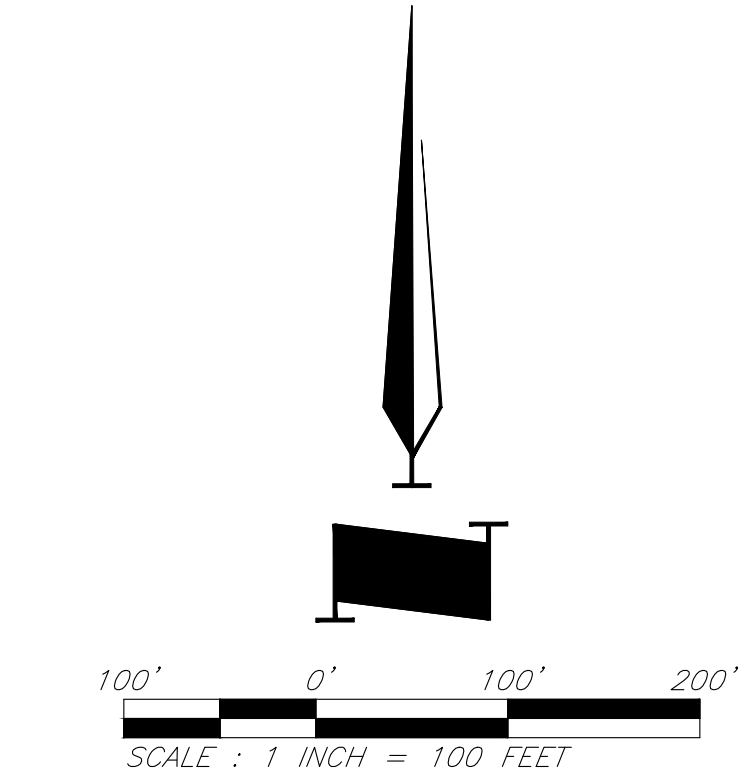
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17



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913.492.0400
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Lee's Summit, MO 64063
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2100 Central Street, Suite 01C
Kansas City, MO 64108
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Lenexa, KS 66214
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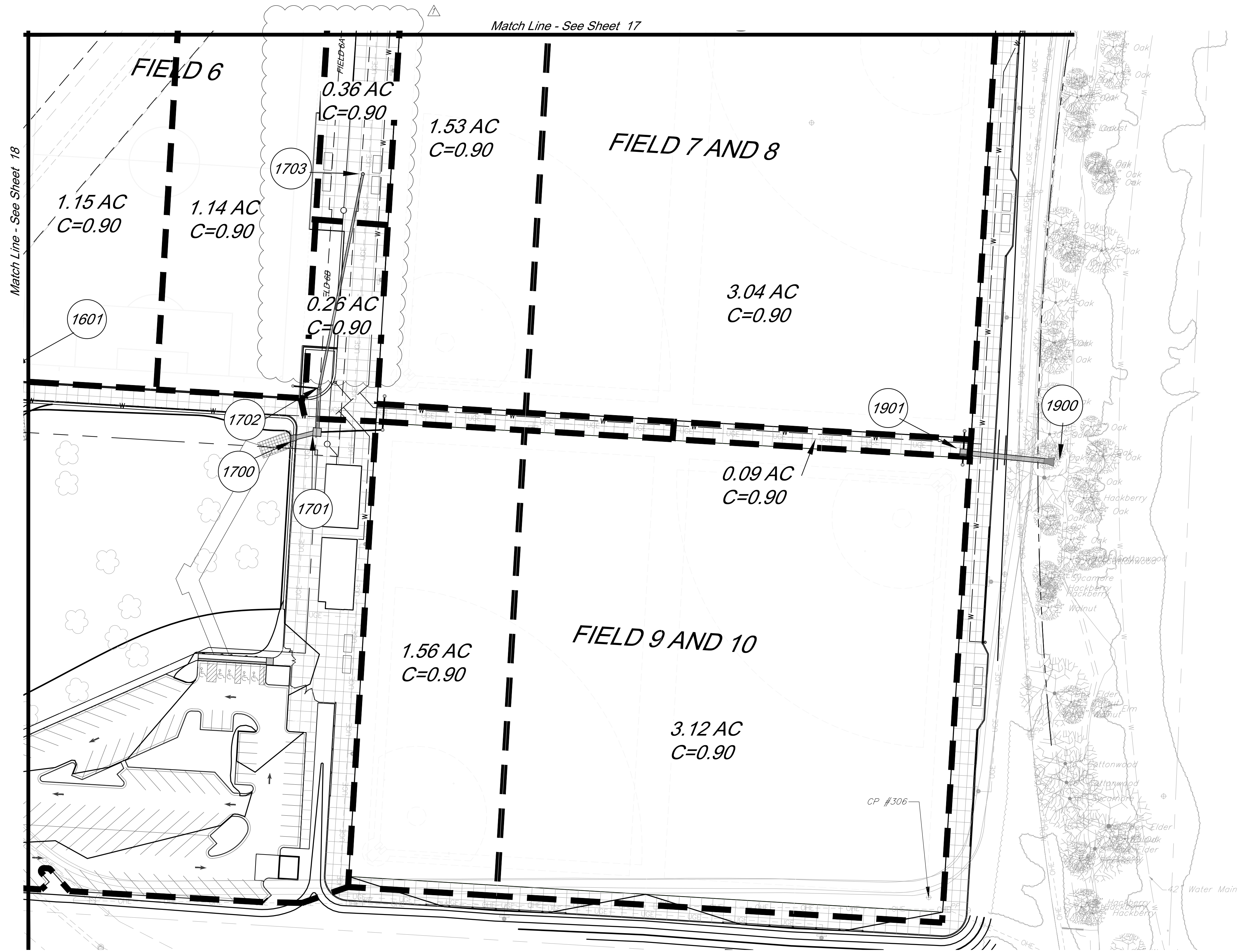
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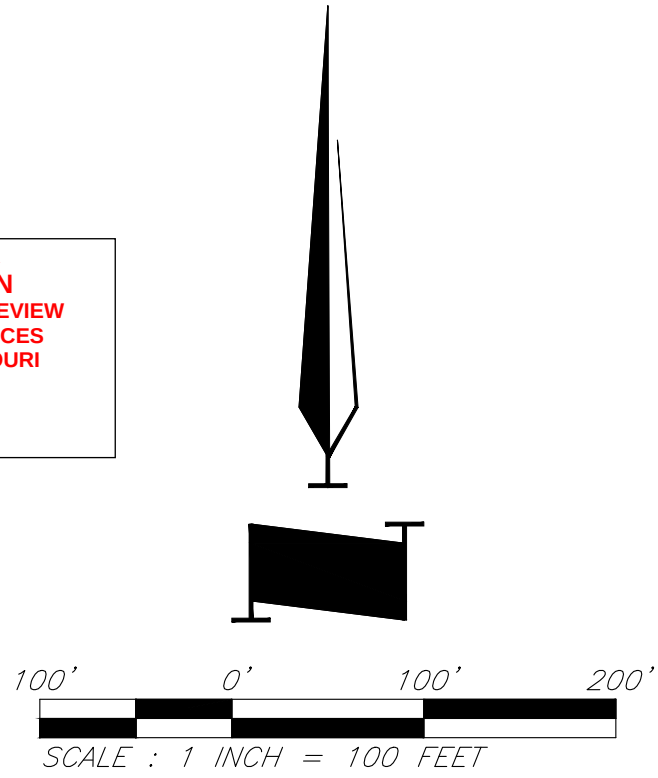
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913.492.0400
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JOB NO: 1197

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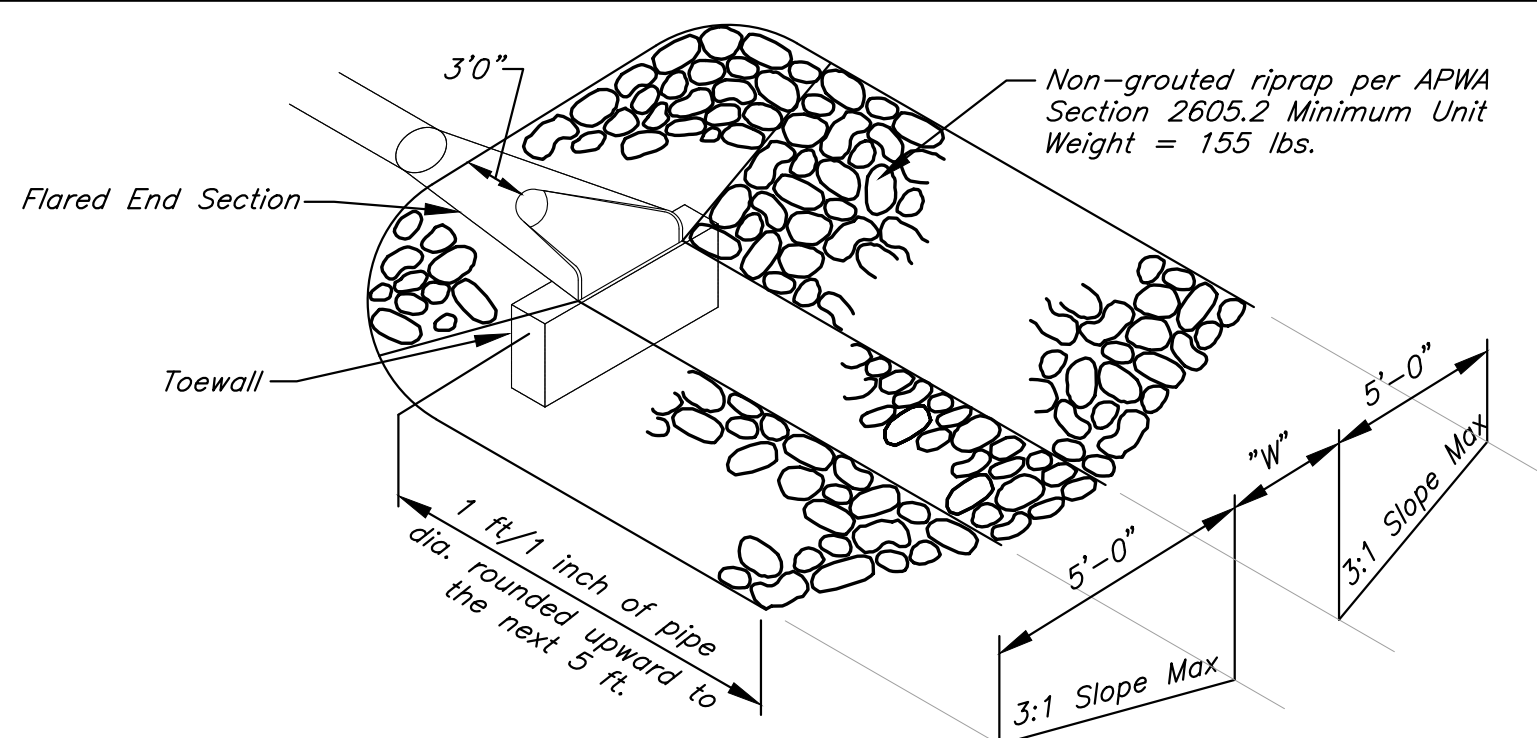
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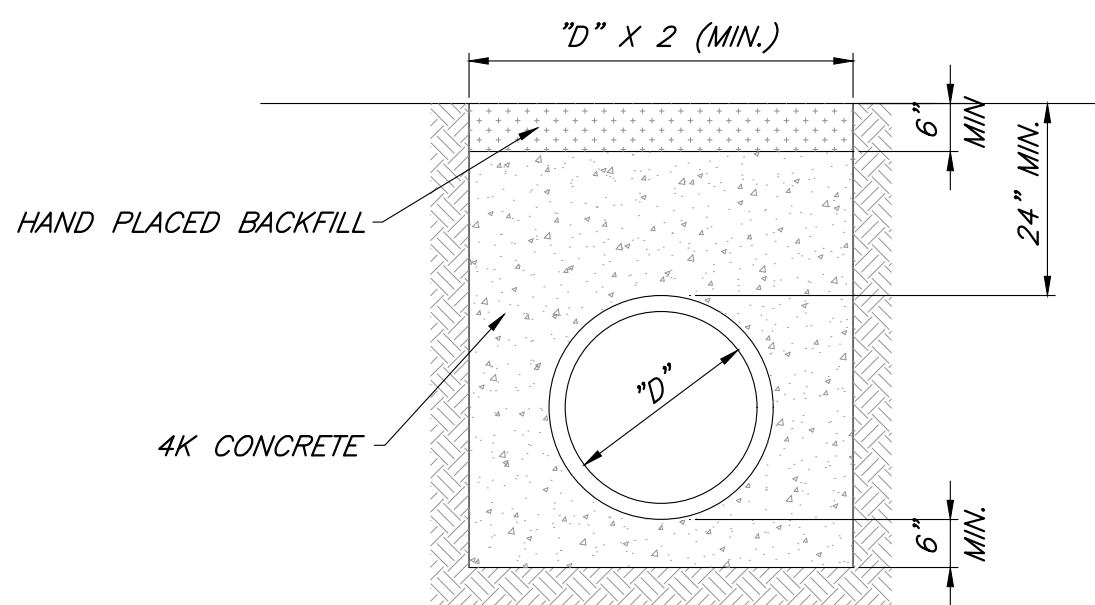
Structures				10 Year Storm										Culverts have been designed to the 100 year Storm										Runoff Calculations										Pipe Design										Design Checks																			
From	To	Direct Area (acre)	Line In (acre)	Total Area (acre)	C	K	Tc (min)	Flow Time (min)	Intensity (in/hr)	Design Q (cfs)	Area Inlet Headwater (in)	Description	Pipe length (lin ft)	Pipe Slope Slope, %	Pipe dia (in)	Manning's n Value	Q full (cfs)	Pipe Area, sf	V full fps	Design V fps	Hw/D	outlet head, H	HW, Inlet Control, (ft)	HW, Outlet Control, (ft)	Inlet Top Elevation	upstream flowline	downstream flowline	Invert Drop (ft)	Downstream water elevation	Hydraulic Grade Elev. (Calculated)	Hydraulic Grade (allowable)	Comments																															
Line 700 (100 Yr)	710		17.12		0.51	1.25	18.92		6.61	72.2		End Section														N/A					831.02	836.00																															
		709	0.42		17.12	0.51	1.25	18.92	0.08	6.61	72.2		RCP	90.20	4.50	48	0.013	305.53	12.57	24.31	19.86	1.0	1.12	831.02	827.68		827.03	822.97		826.56	831.02	836.00																															
		708		17.54	0.52	1.25	19.00	0.03	6.60	74.8		RCP	36.50	4.00	48	0.013	288.06	12.57	22.92	19.22	1.0	0.88	826.56	822.04		822.47	821.01	0.5	821.16	826.56	832.58																																
		707	0.22		17.76	0.52	1.25	19.03	0.16	6.59	76.4		RCP	181.00	4.34	48	0.013	300.05	12.57	23.88	19.33	1.0	1.82	821.16	813.72		817.01	809.15		811.90	811.90	813.17																															
		706	0.00		17.76	0.52	1.25	19.18	0.30	5.34	61.9		RCP	209.13	0.79	60	0.013	232.11	19.63	11.82	11.60	0.7	0.45	811.90	810.38		808.15	806.50	1	809.94	811.90	813.17																															
		705	0.00		17.76	0.52	1.25	19.48	0.34	6.52	75.5		RCP	239.94	0.96	60	0.013	255.87	19.63	13.03	11.60	0.8	0.72	809.94	809.12		806.00	803.70	0.5	808.40	809.94	814.95																															
		704	0.00	9.00		0.67	1.25	5.85		9.98	0.0		Junction Box													814.35			0.5		808.40	813.02																															
		703	0.54	1.81		26.76	0.62	1.25	19.83	0.38	6.46	134.0		RCP	329.02	0.92	60	0.013	250.89	19.63	12.78	14.43	1.0	2.79	808.40	807.62		803.20	800.16	0.5	804.83	808.40	813.02																														
		702	0.25		29.11	0.64	1.25	20.21	0.04	6.40	148.3		RCP	35.47	0.80	60	0.013	233.57	19.63	11.90	14.78	1.1	1.32	803.46	804.83		813.61	797.84	797.31	2.3	803.51	804.83	812.28																														
		701	0.00		29.36	0.64	1.25	20.25	0.04	6.39	149.9		RCP	35.00	0.80	60	0.013	233.57	19.63	11.90	14.80	1.1	1.34	802.69	803.51		813.98	797.01	796.73	0.3	802.17	803.51	812.15																														
	700			29.65	0.64	1.25	20.29	0.08	6.39	151.8		RCP	68.97	0.80	60	0.013	233.57	19.63	11.90	14.84	1.1	1.63	802.17	794.62		813.98	796.43	795.88	0.3	802.17	803.51	812.15																															
				29.65	0.64	1.25	20.29	0.08	6.39	151.8		Junction Box													808.48			8.63		792.99	807.15																																
				29.36	0.65	1.25	20.29	0.05	6.39	151.8		RCP	44.31	1.00	60	0.013	261.14	19.63	13.30	14.84	1.1	1.45	792.99	790.76		787.25	786.81		789.31	789.31																																	

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OUTLET EROSION PROTECTION - RIPRAP

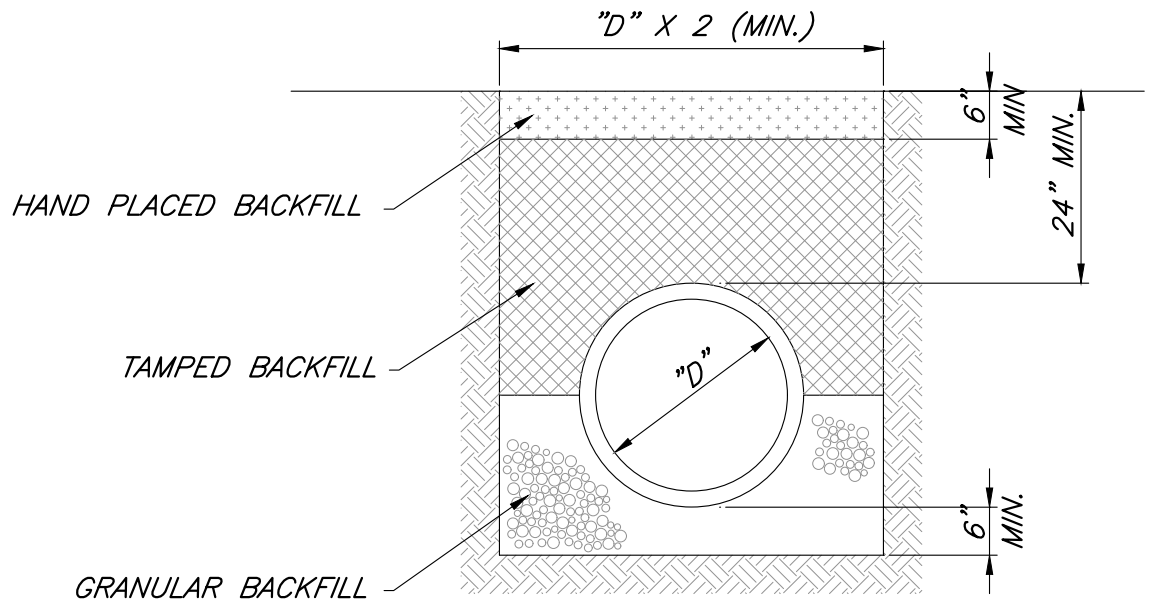
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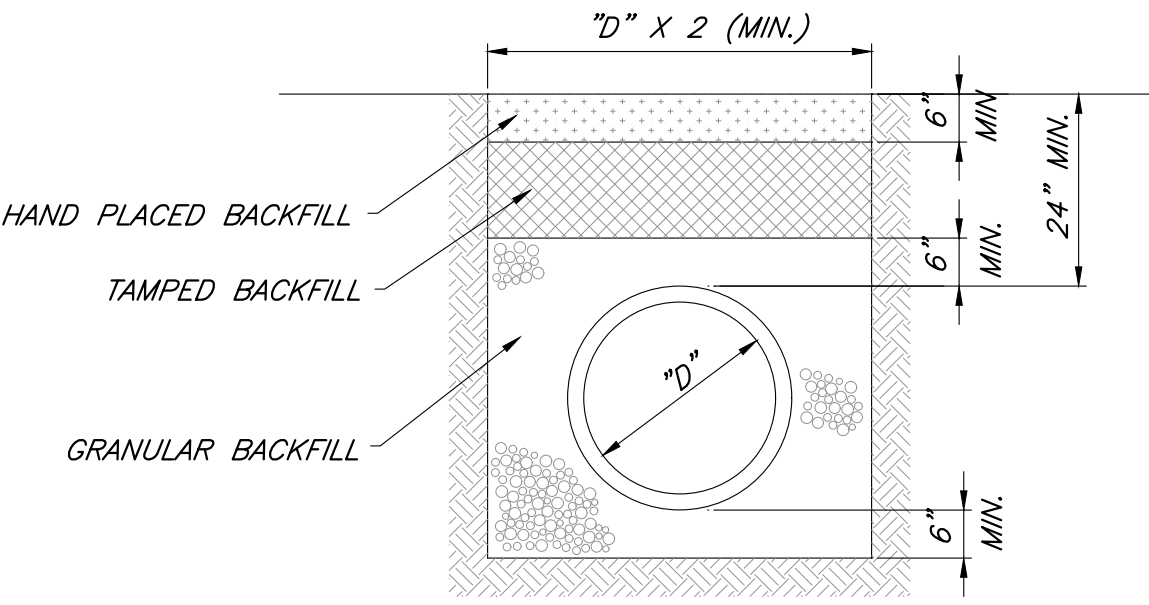
CONCRETE ENCASEMENT CLASS A

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.



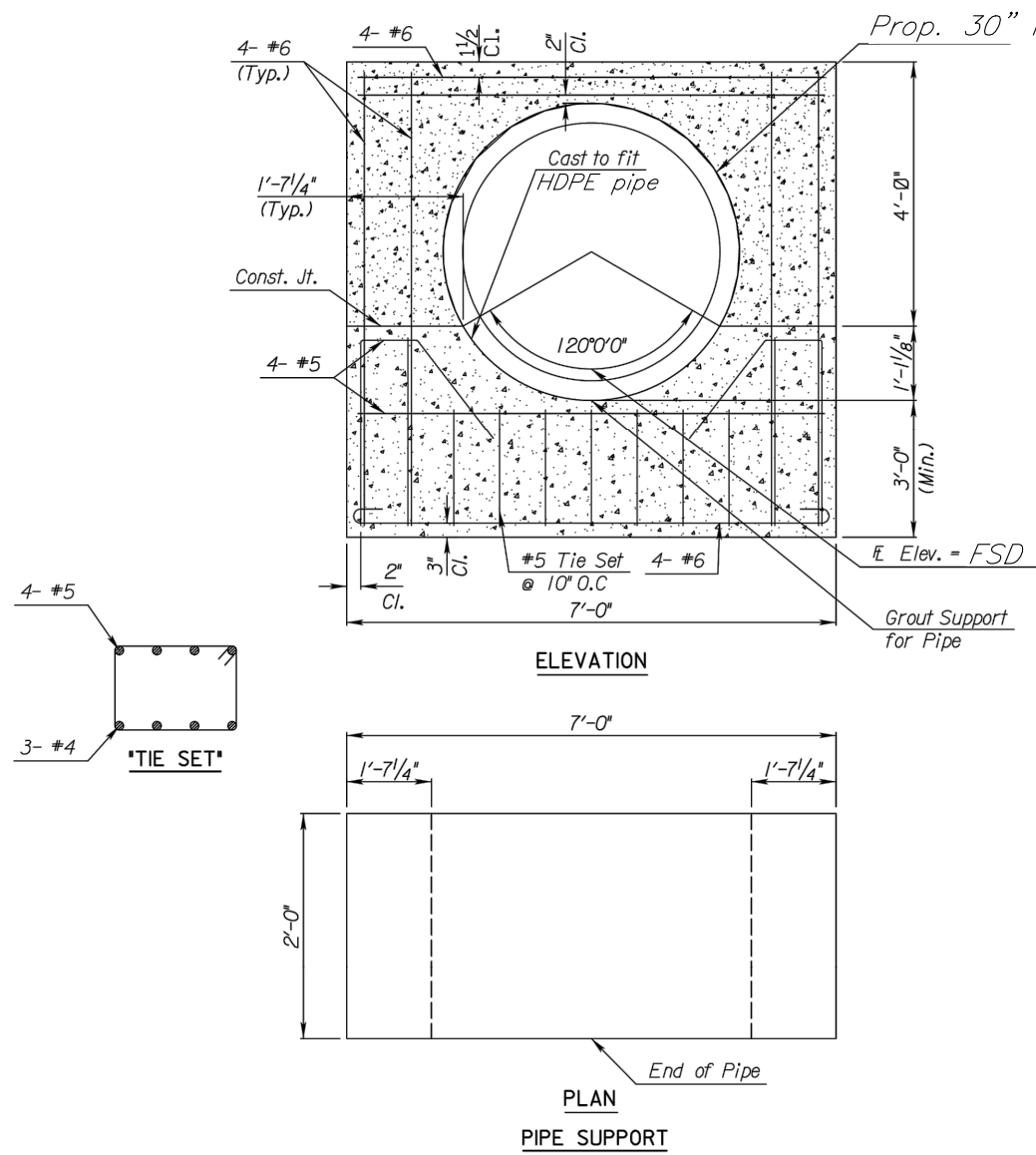
FIRST CLASS BEDDING (RCP) CLASS B



HDPE/PVC PIPE BEDDING CLASS C

PIPE BEDDING DETAILS

No Scale

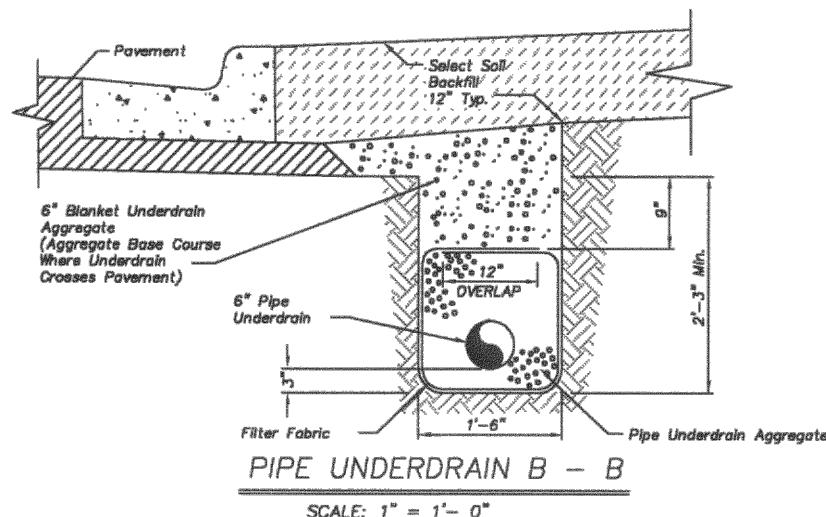


4000 PSI Grout placed under RCP pipe for the full length of pipe. Locate pipe support so that end of the pipe is flush with the front edge of the support. Use KDOT prequalified grout. Payment for all materials, labor, excavation and incidentals used to construct the pipe support including grout shall be *subsidiary* to other items.

Contractor shall verify flowline and pipe dimensions prior to ordering materials or forming of Pipe Support. The Engineer shall be notified immediately if any discrepancies in elevations or plan are discovered. The bottom of the Pipe Support shall be set a minimum of 3' feet below grade.

LINE 1700 END SECTION

No Scale



Underdrain Notes:

1. All roadway excavation in rock will be undercut no less than 12" for the full width of the roadway as shown.
2. In areas where underdrains are not required, undercut and overbridge to transition and shall be brought to within 6" of the subgrade line with properly compacted crushed stone, shot rock, and/or rock rubble. The remaining 6" shall conform to Standard Specifications Section 2202.
3. Layers of earth or shale shall not be permitted for backfill up to the bottom of the crushed stone.
4. A minimum of 12" of select soil (rubble) shall be placed on exposed rock cut or fill slopes outside the limits of the roadway. All rock and shale slopes shall be benched @ maximum 2' vertical intervals prior to placement of select soil.
5. Proposed underdrain pipe layout, baseline elevations, inlet connection points, and details shall be approved prior to construction by the City Engineer.
6. Where pipe underdrains are used, all underdrain outlet pipes shall be solid wall with watertight joints. All outlet pipes shall be tied into the nearest storm sewer, shot rock, and/or rock rubble. Underdrains are solid, all underdrain outlet pipes shall be solid wall with manufacturer joints approved by the City Engineer. All connections between pipes and edge connections or curb inlets shall be made with 2' minimum length of pipe.
7. All underdrain pipes shall be installed at a minimum slope of 1%.
8. Underdrain pipes shall be installed with the perforations placed down.
9. Blanket underdrains shall be placed on bedrock unless otherwise directed by the City Engineer. Underdrain and overbridge in transition and shall be brought to within 12" of the subgrade line with properly compacted crushed stone, shot rock and/or rock rubble.
10. The Contractor may, at his option, use either pipe underdrain or edge underdrain, but shall not mix underdrain types within any underdrain system.
11. All edge underdrain shall be held in the center of the trench by mechanical methods while placing granular backfill. See detail this detail. Alternate methods may be used with prior approval by the City Engineer.
12. Blanket underdrain aggregate, pipe underdrain aggregate, pipe underdrain, edge underdrain and outlet pipe shall conform to Standard Specifications Section 2203.6.

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Paragon Star Soccer Complex

CLINT
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1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

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1981 Renner Boulevard
Lenexa, KS 66217
913.492.0400
www.gbadeam.com
MO Certificate of Authority # 000133

LAND3 Studio, LLC
317 SE Main
Lee's Summit, MO 64063
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FINKE + WILLIAMS Architecture
7337 College Boulevard, Suite 415
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913.498.1550
www.finkewilliams.com
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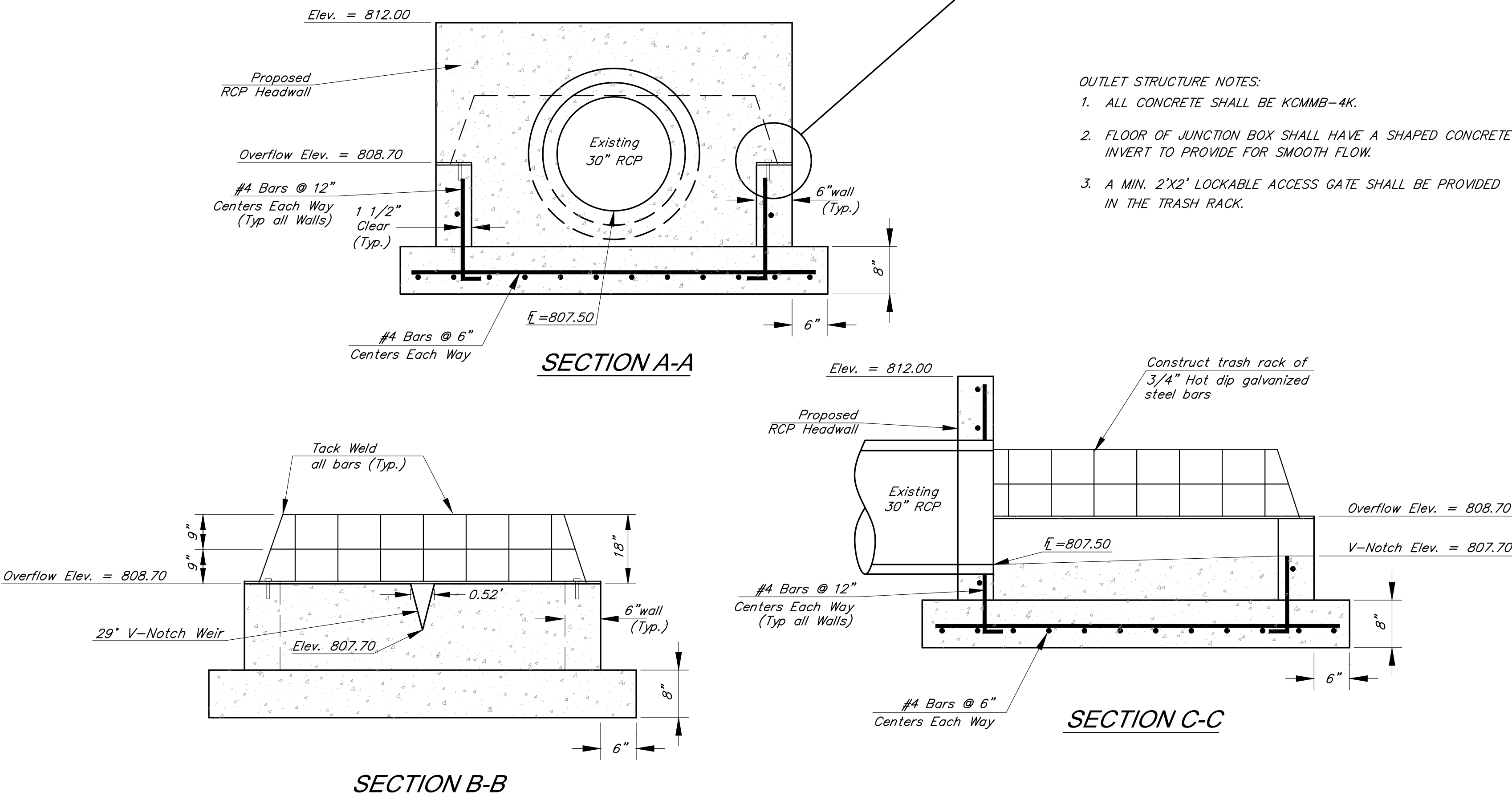
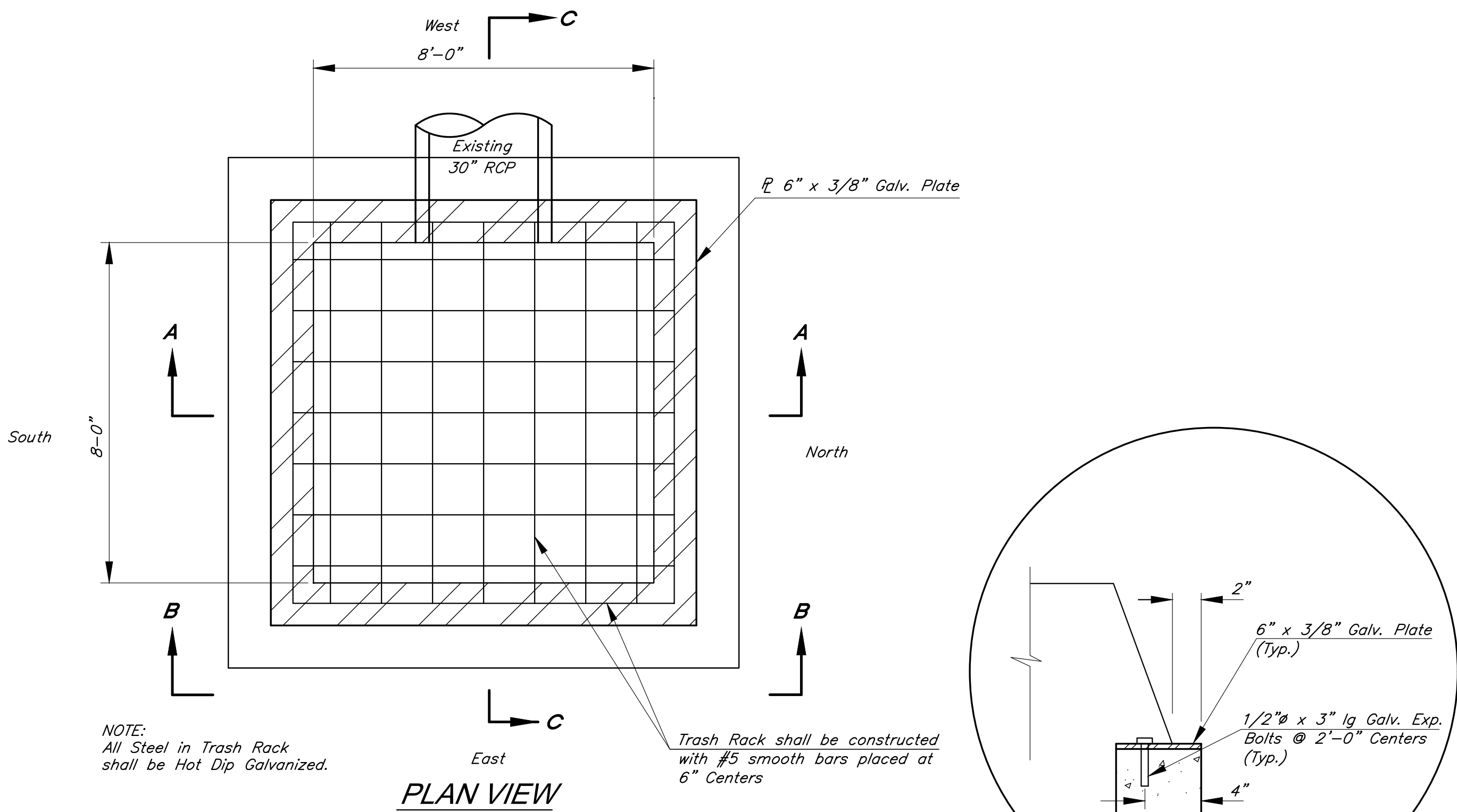
Storm Sewer Details

JOB NO: 1197 SCALE:
DATE: 05.22.2020 DRAWN BY: GBA

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22

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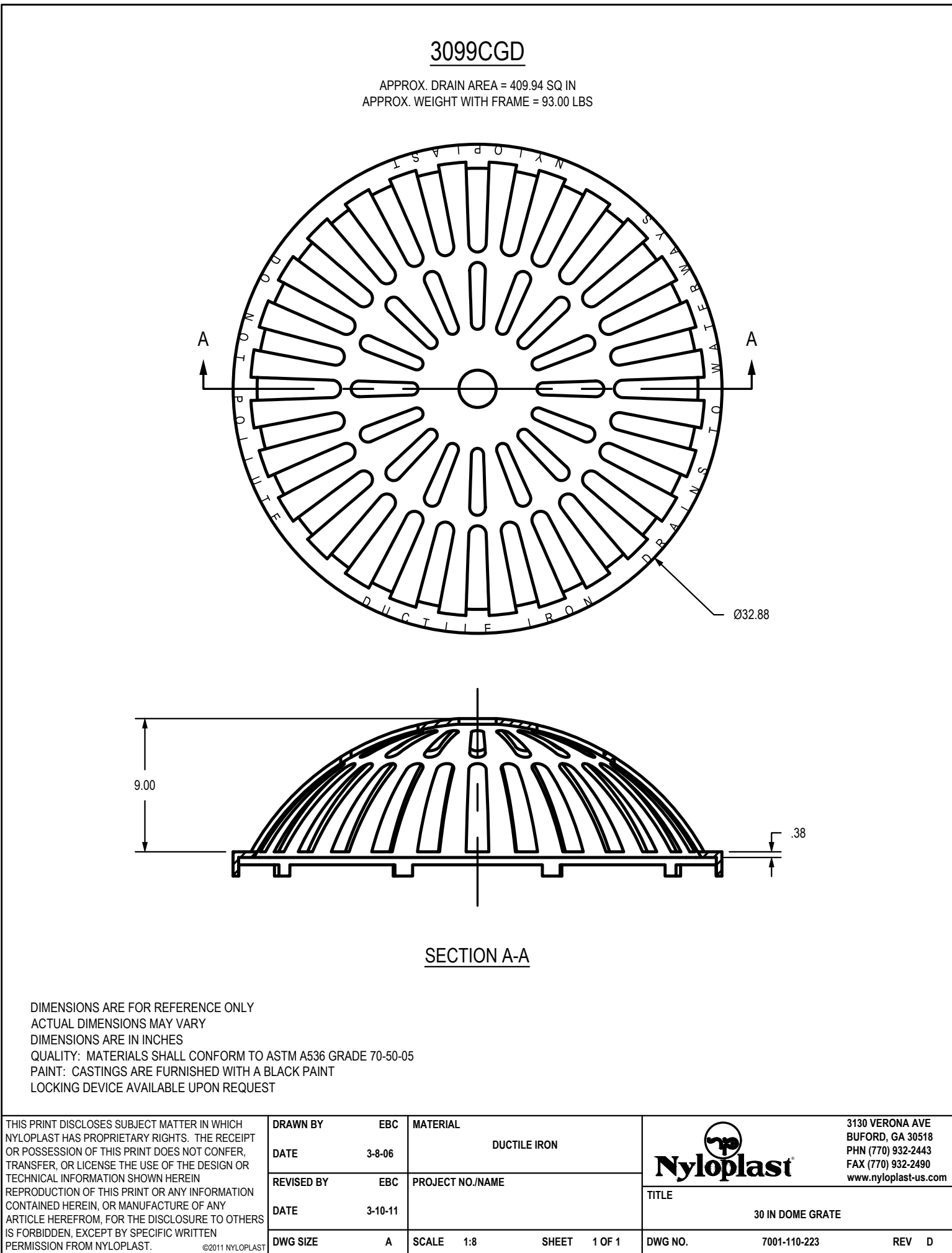
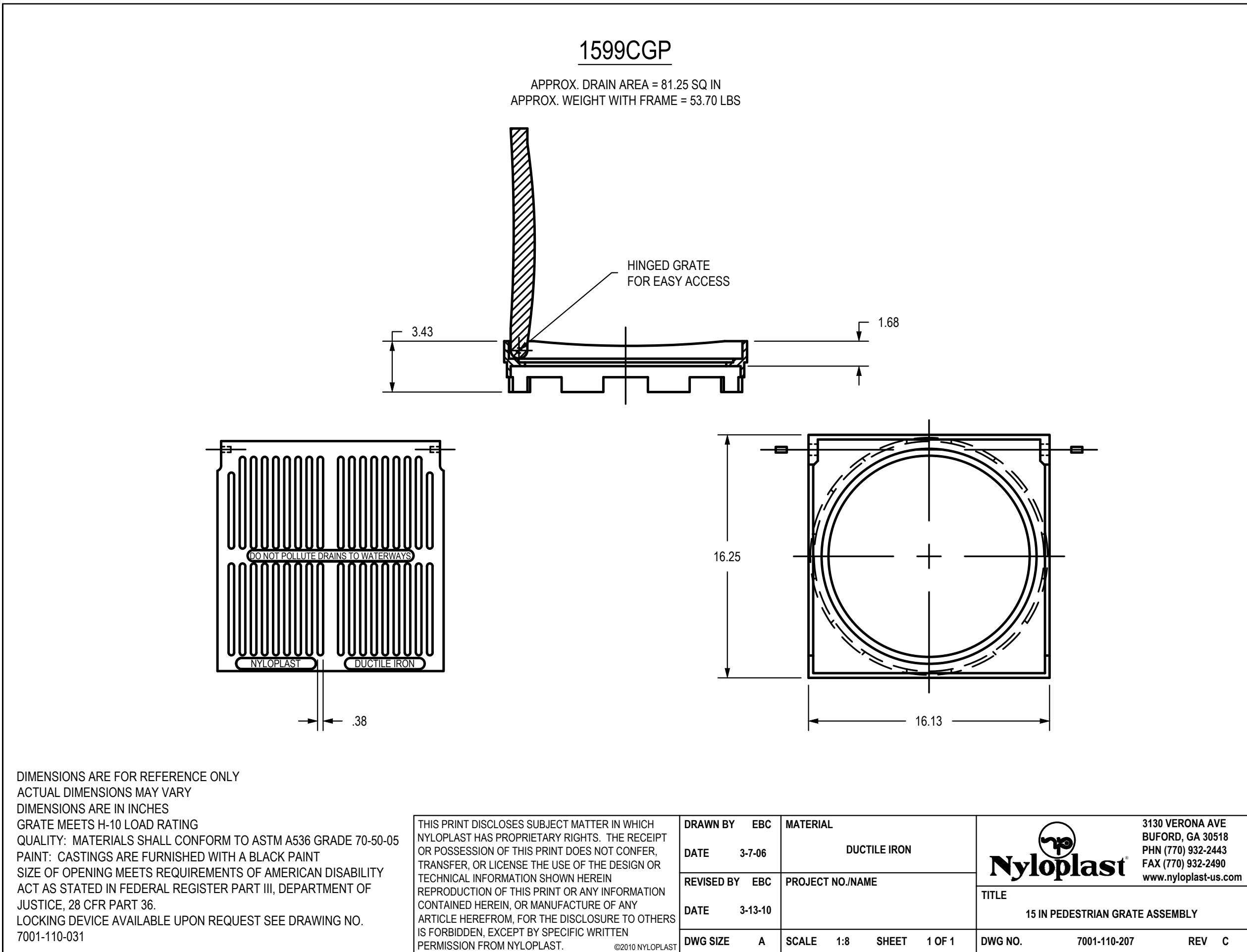
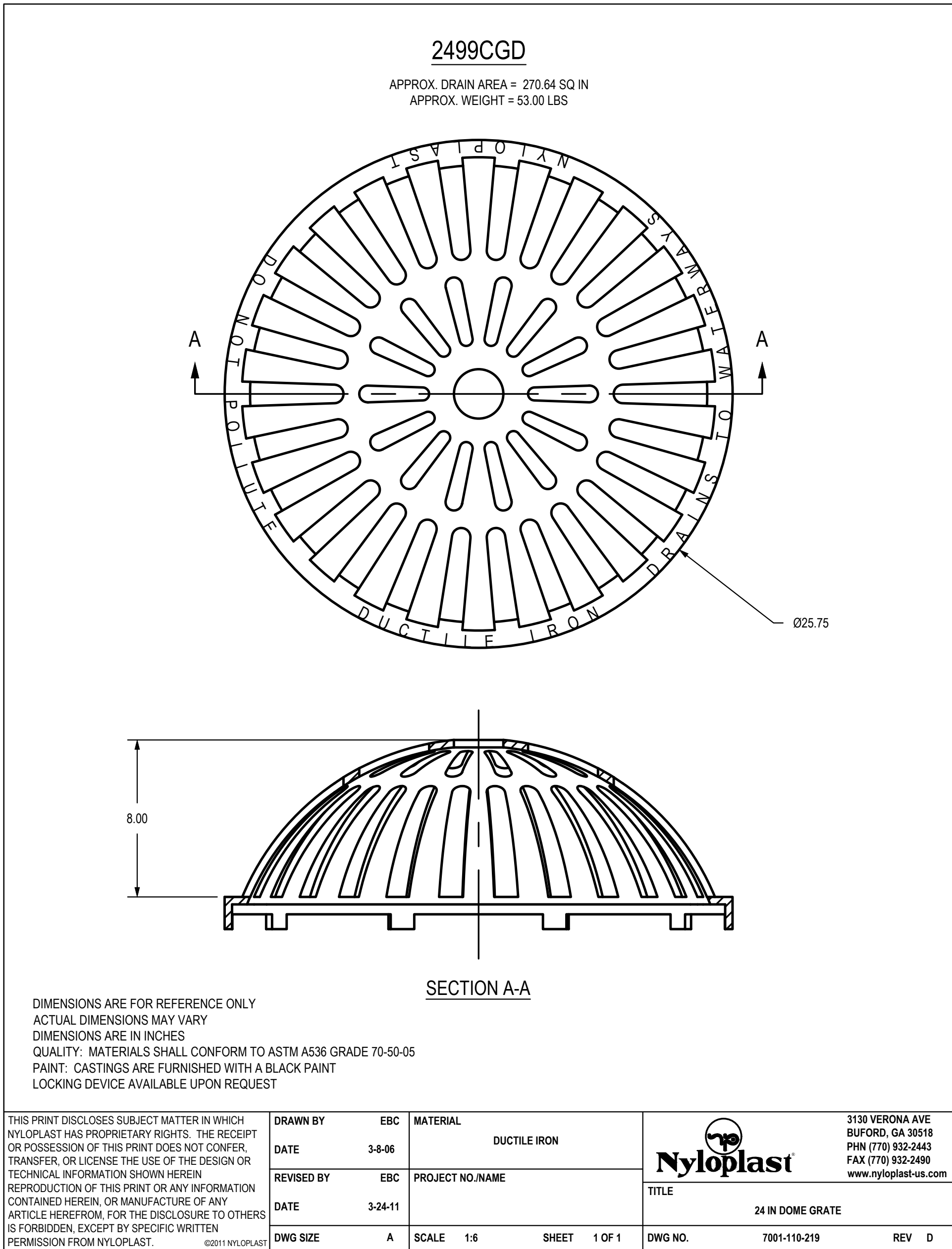


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DRAWING TITLE:

Storm Sewer Details

JOB NO: 1197

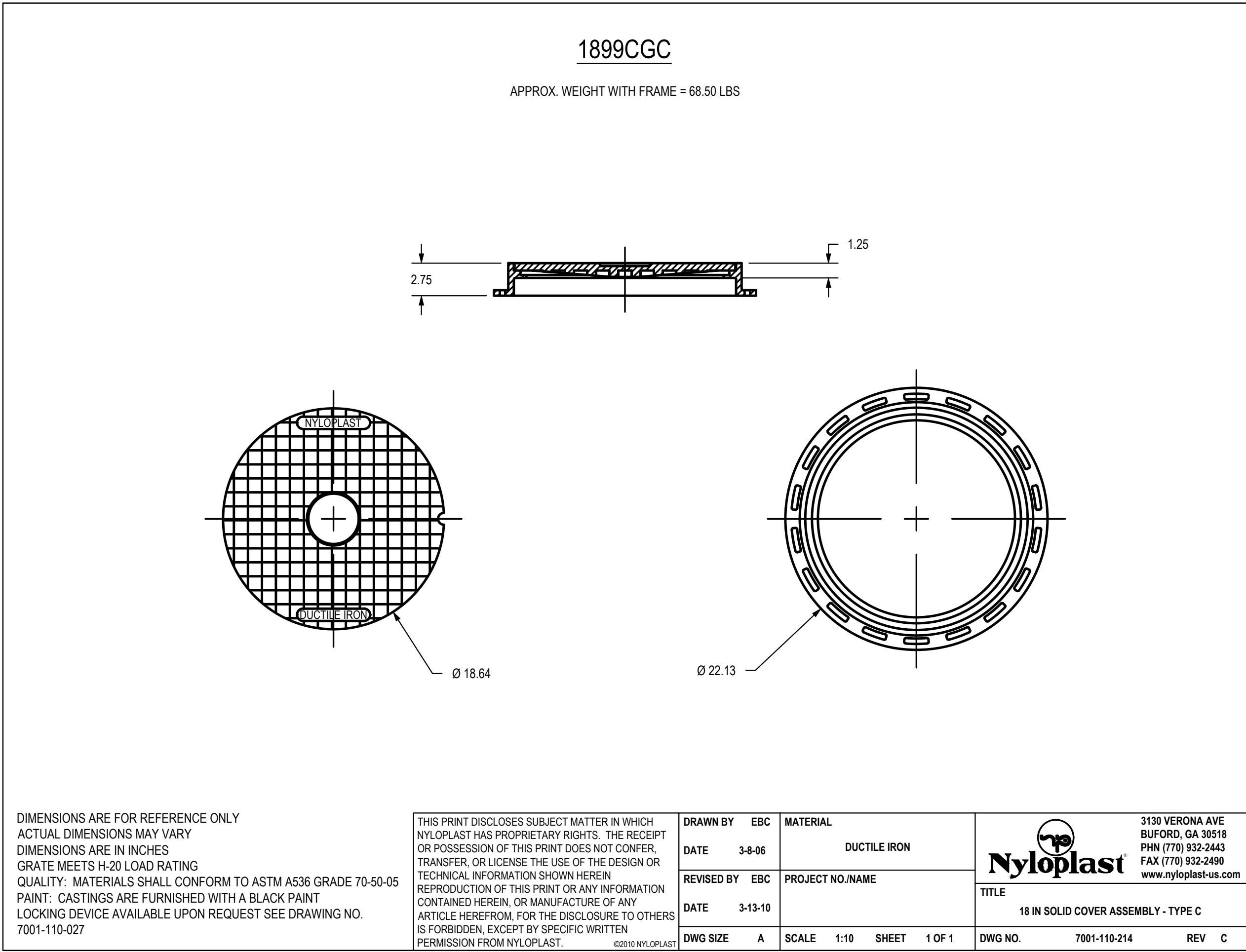
SCALE:

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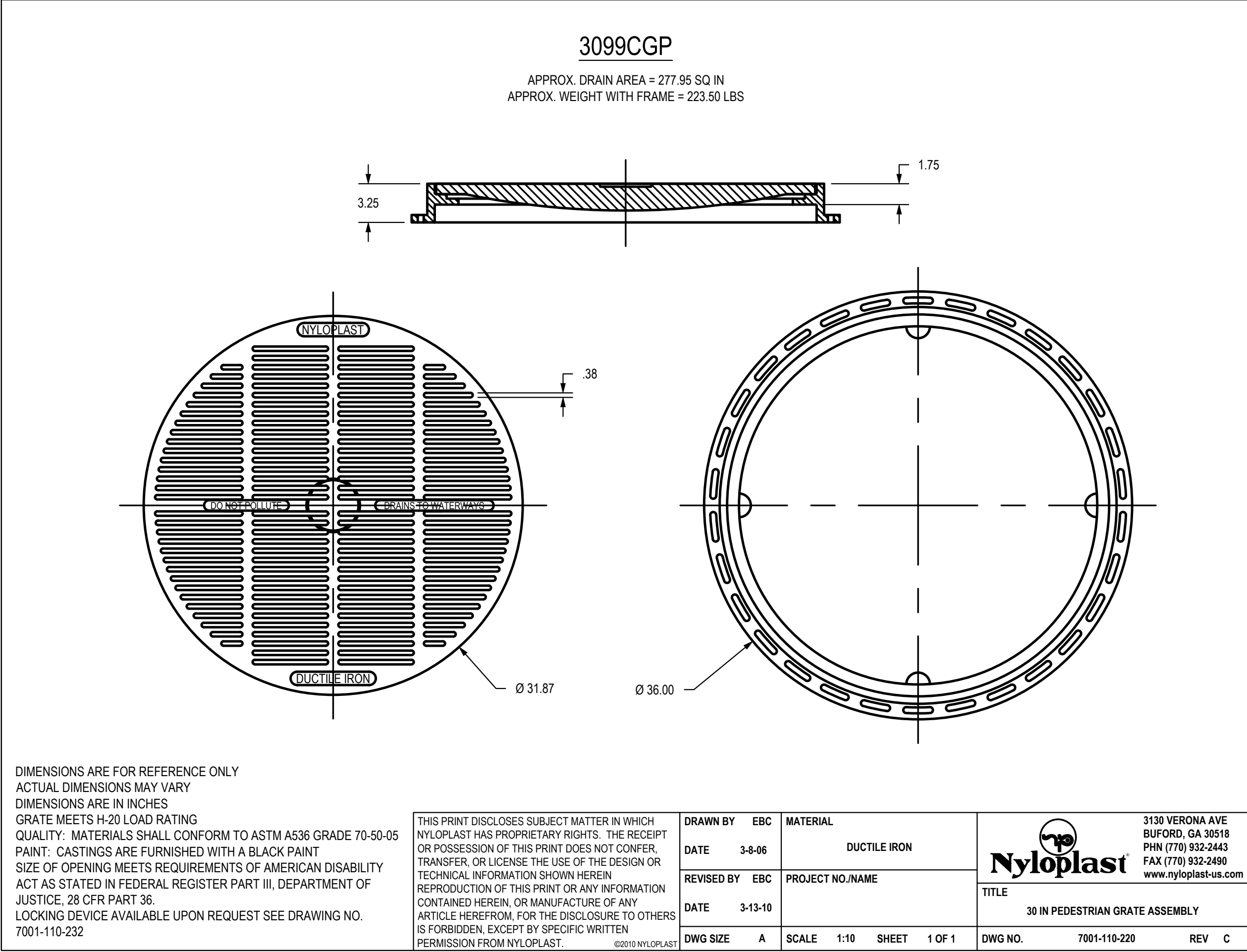
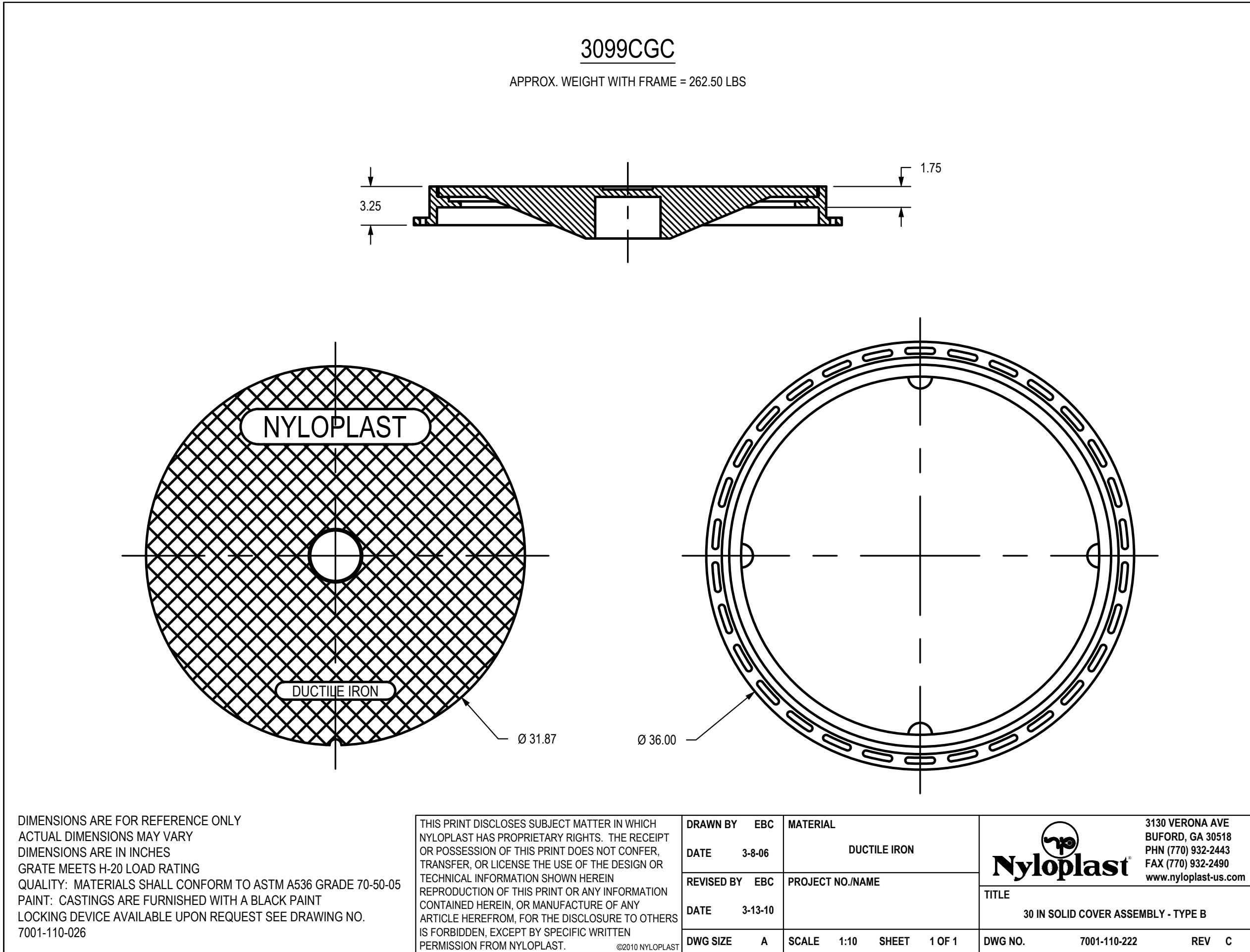
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24

G:\12720\Civil\3D\production drawings\field storm plans\12720C2200.dwg Layout: 25 Storm Sewer Details -- Wednesday, September 30, 2020, 2:55pm -- Architect 00212, George Butler Associates, Inc. Copyright 2020, George Butler Associates, Inc. The Professional Engineer 000133, Professional Land Surveyor 000059



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CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/20/2020

GBA
7801 Renner Boulevard
Lenexa, KS 66219
913.492.0400
www.gbaleam.com
MO Certificate of Authority # 000133

LAND3 Studio, LLC
317 SE Main
Lee's Summit, MO 64063
www.land3studio.com
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Hoerr Schaudt Landscape Architects
2100 Central Street, Suite 01C
Kansas City, MO 64108
816.510.0438
www.hoerschaudt.com
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8345 Lenexa Drive
Lenexa, KS 66214
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www.fwilliams.com
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PROJECT:

Paragon Star Soccer Complex

Soccer Complex Storm Sewer
1401 NW View High Dr, Lee's Summit, MO 64081

Field Storm Sewer Plans

ISSUE:

10/17/19 City Comments
3/13/20 City Comments
4/28/20 City Comments
5/22/20 City Comments

9/29/20 Site Plan Revision

PROFESSIONAL SEAL:



DRAWING TITLE:

Storm Sewer
Details

JOB NO: 1197 SCALE:

DATE: 05.22.2020 DRAWN BY: GBA

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