

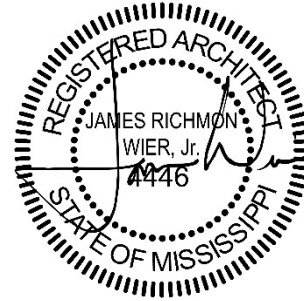
July 15, 2016

ADDENDUM NO. 02

RANKIN TRAILS AMPHITHEATER AND BASEBALL PARK

Rankin County, Mississippi

WBA Proj. # 2215/2315



NOTICE TO ALL DOCUMENT HOLDERS:

The following additions, deletions, changes and clarifications to the drawings and specifications are to be included as part of the Contract Documents.

GENERAL

ITEM NO. 1

PRE-BID MEETING ITEMS

The Pre-Bid Meeting was held at the site on Wednesday, July 13. All items discussed at the meeting are clarified below. The sign-in sheet is attached.

ITEM NO. 2

BID DATE/TIME

The bid date is Thursday, July 21, 2016. All bids are to be turned in to the Clerk's Office at Brandon City Hall.

ITEM NO. 3

UNIT PRICE SHEET

Unit Price itemized sheet is to be turned in by the awarded bidder within 48 hours of the bid opening, however, the owner has reserved the right to request a unit price sheet from any of the bidders at any time.

ITEM NO. 4

EXISTING CONDITIONS / ONGOING WORK BY THE OWNER

All bidders are to use the updated unit price sheet and existing conditions drawings included in this addendum to quantify all work items. Any condition modified by the Owner following the issuance of this Addendum and prior to the award of contract will be reconciled with the awarded contractor via Change Order.

ITEM NO. 5

AMPHITHEATER/BASEBALL PARK SEQUENCE

CLARIFICATION: There is not a predetermined scheduling sequence for construction of the Amphitheater vs. the Baseball Park, so long as they are both completed within the given construction duration.

ITEM NO. 6 BUILDING SIGNAGE

CLARIFICATION: There is no signage included in this contract. All signage will be bid in a separate contract at a later date

SPECIFICATIONS

ITEM NO. 7 DIVISION 01 – GENERAL REQUIREMENTS

REPLACE section 00.4100 – Pay Items Supplemental Form per attached sheets.

ITEM NO. 8 DIVISION 01 – GENERAL REQUIREMENTS

REPLACE section 1.2050 – Measurement and Payment per attached sheets.

REVISE section 01.2300 – 1.04 SCHEDULE OF ALTERNATES to read as follows:

- A. Alternate No. 1 – Amphitheater Main Parking Lot.
- B. Alternate No. 2 – Amphitheater VIP Access Road & Parking Lot.
- C. Alternate No. 3 – Concessions Stands.
- D. Alternate No. 4 – Baseball Access Road & Parking Lot.
- E. Alternate No. 5 – Synthetic Turf Infields."

ITEM NO. 9 APPENDICES

ADD to Appendix A: Geotechnical Investigation Report for borrowed fill material per attached "Kennedy Farm Parkway Property" Geotechnical Investigation.

CLARIFICATION: Contractor may use this borrowed fill provided by the owner at no cost.

REPLACE Appendix C – Synthetic Turf Specifications with attached sheets.

DRAWINGS

ITEM NO. 10 SHEET C0.4 EXISTING CONDITIONS

REVISE per enclosed sheet C0.4. Existing conditions have been revised.

ITEM NO. 11 SHEETS C1.0-C1.11

REVISE per enclosed sheets C1.0-C1.11. Graphic scales corrected.

ITEM NO. 12 SHEETS C2.0-C2.9

REVISE per enclosed sheets C2.0-C2.9. Graphic scales corrected.

ITEM NO. 13 SHEETS C3.1-C3.3

REVISE per enclosed sheets C3.1-C3.3. Graphic scales corrected.

ITEM NO. 14 SHEET C3.4 SURFACING PLAN

REVISE per enclosed sheet C3.4. Civil construction elements defined. Limits of concrete sidewalk revised.

- ITEM NO. 15 SHEET C4.0 AMPHITHEATER UTILITY LAYOUT**
REVISE per enclosed sheet C4.0. Revised water lines per Fire Dept. comments.
- ITEM NO. 16 SHEET C4.1 AMPHITHEATER SANITARY SEWER PLAN-PROFILE**
REVISE per enclosed sheet C4.1. Revised water lines per Fire Dept. comments.
- ITEM NO. 17 SHEET ES0.0 ELECTRICAL SITE PLAN – KEY MAP**
REVISE per enclosed sheet ES0.0. Sheet was left out of Addendum #1.
- ITEM NO. 18 SHEET ES4.0 ELECTRICAL SITE PLAN – ACCESS RD AND PARKING**
REVISE per enclosed sheet ES4.0. Sheet was left out of Addendum #1.
- ITEM NO. 19 SHEET ES5.0 ELECTRICAL SITE PLAN – ACCESS RD AND PARKING**
REVISE per enclosed sheet ES5.0. Sheet was left out of Addendum #1.
- ITEM NO. 20 SHEET ES7.0 ELECTRICAL SITE PLAN – ACCESS RD AND PARKING**
REVISE per enclosed sheet ES7.0. Sheet was left out of Addendum #1.
- ITEM NO. 21 SHEET ES7.0 ELECTRICAL SITE PLAN – ACCESS RD AND PARKING**
REVISE per enclosed sheet ES7.0. Sheet was left out of Addendum #1.
- ITEM NO. 22 SHEET E1.06 MECHANICAL SCHEDULES**
CLARIFICATION: Transformer Tk3 (feeding panel LK3) shall be a 75kVA,
480:208Y/120V, 3-phase 4-wire.

NO MORE ITEMS.

Encl: Pre-Bid Meeting Sign-In Sheet (1pg 8.5x11), Pay Items Supplemental Form (8pg 8.5x11), Measurement and Payment (27pg 8.5x11), Geotechnical Investigation Report (22pg 8.5x11), Civil Appendix C – Synthetic Turf Specifications (8pg 8.5x11), Sheet C0.4 (1pg 24x36), Sheets C1.0-C1.11 (12pg 24x36), Sheets 2.0-C2.9 (10pg 24x36), Sheets C3.1-3.4 (4pg 24x36), Sheet C4.0 (1pg 24x36), Sheet 4.1 (1pg 24x36), Sheet ES0.0 (1pg 24x36), Sheet ES4.0 (1pg 24x36), Sheet ES5.0 (1pg 24x36), Sheet ES7.0 (1pg 24x36)

cc: All Document Holders
File 2215

Sign-In Sheet

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PAY ITEMS SUPPLEMENTAL FORM

Base Bid - Rankin Trails Baseball & Ampitheater					
Item No.	Description	Unit	Quantity	Unit Price	Total
1.0	Mobilization, Bonds & Insurance	LS	1		
2.0	Allowances	LS	1		
3.0	Site Grading and Preparation	LS	1		
4.0	Excess Excavation (LVM)	CY	8500		
5.0	Borrow Excavation (LVM)	CY	30000		
6.0	Amphitheater, Complete (All Buildings, Bowl, Seating Areas)	LS	1		
7.0	Baseball Main Concession Building	LS	1		
8.0	Dugout, Complete	EA	6		
9.0	Dugout w/ Scorekeepers Station, Complete	EA	6		
10.0	Backstop Wall	LF	576		
11.0	Backstop Netting System, 23' High	LF	576		
12.0	Shade Structure	EA	6		
13.0	Seating Platform	EA	6		
14.0	Reinforced Concrete, 4" Thick	SF	95684		
15.0	Reinforced Concrete, 6" Thick	SF	1365		
16.0	Reinforced Concrete, 4" Thick - Integral Color Charcoal	SF	2500		
17.0	ADA Accessible Ramp w/ Truncated Domes	EA	3		
18.0	HMA Base Course, 19mm	Tons	1275		
19.0	HMA Surface Course, 9.5mm	Tons	825		
20.0	Lime Treatment, 9" Thick	Tons	150		
21.0	Concrete Curb & Gutter	LF	3045		
22.0	Vinyl Coated Black Chain Link Fence, 5' High (Including Gates)	LF	5418		

PAY ITEMS SUPPLEMENTAL FORM

23.0	Vinyl Coated Black Chain Link Fence, 6' High	LF	2377		
24.0	Vinyl Coated Black Chain Link Fence, 8' High	LF	1509		
25.0	Ornamental Fence, 8' High	LF	500		
26.0	4.5" Poly Top Cap, Yellow	LF	2400		
27.0	Sports Lighting System	LS	1		
28.0	Parking Lot Lighting	LS	1		
29.0	Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)	LS	1		
30.0	Scoreboard, Complete	EA	6		
31.0	Landscaping, Complete	LS	1		
32.0	Topsoil, 4" Thick	CY	4000		
33.0	Amended Topsoil, 6" Thick (Fields Only)	CY	4302		
34.0	Warning Track Mix, 4" Thick	SY	6282		
35.0	Infield Mix, 4" Thick	SY	4208		
36.0	Pitcher's Mound	EA	6		
37.0	Sod, Tifway 419 Hybrid Bermudagrass	SY	4302		
38.0	Seed, Bermudagrass Common	Acre	7		
39.0	Field Equipment (Home Plate, Pitching Rubber, Bases)	EA	6		
40.0	Foul Poles	EA	12		
41.0	Irrigation System	LS	1		
42.0	Curb Inlet, Double	EA	4		
43.0	Curb Inlet, Triple	EA	5		
44.0	Grate Inlet, Type 1	EA	10		
45.0	Grate Inlet, Type 2	EA	4		

PAY ITEMS SUPPLEMENTAL FORM

46.0	Outfall Control Structure	EA	1		
47.0	10" Corrugated Plastic Pipe	LF	260		
48.0	12" Corrugated Plastic Pipe	LF	441		
49.0	15" Corrugated Plastic Pipe	LF	810		
50.0	18" Corrugated Plastic Pipe	LF	222		
51.0	24" Corrugated Plastic Pipe	LF	298		
52.0	15" Reinforced Concrete Pipe	LF	682		
53.0	18" Reinforced Concrete Pipe	LF	1065		
54.0	24" Reinforced Concrete Pipe	LF	242		
55.0	30" Reinforced Concrete Pipe	LF	343		
56.0	30" Concrete Flared End Section	EA	3		
57.0	24" Concrete Flared End Section	EA	1		
58.0	24" HDPE Flared End Section	EA	2		
59.0	15" HDPE Flared End Section	EA	2		
60.0	12" HDPE Flared End Section	EA	1		
61.0	10" HDPE Flared End Section	EA	1		
62.0	Pavement Markings	LS	1		
63.0	Trench Drain System, Complete	LS	1		
64.0	Cable Trench	LF	108		
65.0	Infield Drainage System (Per Field)	EA	6		
66.0	Rip Rap	Tons	100		
67.0	Fence Windscreen	LF	177		
68.0	Ramp Handrail	LF	265		
69.0	Erosion Control Maintenance	LS	1		

PAY ITEMS SUPPLEMENTAL FORM

70.0	Connection to Existing 36" Sewer Main	EA	2		
71.0	Precast 48" Sanitary Manhole	EA	13		
72.0	6" SDR 26 Sanitary Sewer	LF	1023		
73.0	8" SDR 26 Sanitary Sewer	LF	3259		
74.0	12" (1/4" Thick) Steel Casing w/ Spacers and End Seal	LF	125		
75.0	6" PVC Sewer Cleanout	EA	3		
76.0	8" PVC Sewer Cleanout	EA	2		
77.0	Water Meter & Boxes, 2" Service Line w/ Curbstop	EA	1		
78.0	Water Meter & Boxes, 4" Service Line w/ Curbstop	EA	1		
79.0	8" Ductile Iron (C350) Fire Line	LF	73		
80.0	8" C900 Water Main	LF	4975		
81.0	6" C900 Water Main	LF	2221		
82.0	4" C900 Water Service Line	LF	106		
83.0	2" C900 Water Service Line	LF	114		
84.0	8" Gate Valve & Box	EA	10		
85.0	6" Gate Valve & Box	EA	2		
86.0	Fire Hydrant & Assembly	EA	7		
87.0	Blow-Off Assembly	EA	2		
88.0	Connection to Existing 12" Water Main	EA	2		
TOTAL BID					

Alternate Bid 1 -Amphitheater Main Parking Lot					
Item No.	Description	Unit	Quantity	Unit Price	Total
A1. 1.0	Site Grading and Preparation	LS	1		
A1. 2.0	Excess Excavation (LVM)	CY	2500		

PAY ITEMS SUPPLEMENTAL FORM

A1. 3.0	Borrow Excavation (LVM)	SF	2500		
A1. 4.0	Reinforced Concrete, 4" Thick	SF	3700		
A1. 5.0	HMA Base Course, 19mm	Tons	3000		
A1. 6.0	HMA Surface Course, 9.5mm	Tons	1875		
A1. 7.0	Lime Treatment, 9" Thick	Tons	400		
A1. 8.0	Concrete Curb & Gutter	LF	2160		
A1. 9.0	Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)	LS	1		
A1. 10.0	Parking Lot Lighting	LS	1		
A1. 11.0	Topsoil, 4" Thick	CY	1000		
A1. 12.0	Landscaping, Complete	LS	1		
A1. 13.0	Curb Inlet, Double	EA	3		
A1. 14.0	Grate Inlet, Type 2	EA	2		
A1. 15.0	15" Reinforced Concrete Pipe	LF	517		
A1. 16.0	18" Reinforced Concrete Pipe	LF	365		
A1. 17.0	24" Reinforced Concrete Pipe	LF	210		
A1. 18.0	30" Reinforced Concrete Pipe	LF	60		
A1. 19.0	30" Concrete Flared End Section	EA	2		
A1. 20.0	24" Concrete Flared End Section	EA	1		
A1. 21.0	15" Concrete Flared End Section	EA	3		
A1. 22.0	Pavement Markings	LS	1		
A1. 23.0	Roadway Traffic Signs	EA	9		
A1. 24.0	Rip Rap	Tons	30		
ALTERNATE BID NO. 1					

Alternate Bid 2 - Amphitheater VIP Access Road & Parking Lot

PAY ITEMS SUPPLEMENTAL FORM

Item No.	Description	Unit	Quantity	Unit Price	Total
A2. 1.0	Site Grading and Preparation	LS	1		
A2. 2.0	Excess Excavation (LVM)	CY	7700		
A2. 3.0	Borrow Excavation (LVM)	SF	5000		
A2. 4.0	HMA Base Course, 19mm	Tons	1660		
A2. 5.0	HMA Surface Course, 9.5mm	Tons	1037		
A2. 6.0	Lime Treatment, 9" Thick	Tons	210		
A2. 7.0	Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)	LS	1		
A2. 8.0	Parking Lot Lighting	LS	1		
A2. 9.0	Topsoil, 4" Thick	CY	1000		
A2. 10.0	Landscaping, Complete	LS	1		
A2. 11.0	24" Reinforced Concrete Pipe	LF	36		
A2. 12.0	30" Reinforced Concrete Pipe	LF	36		
A2. 13.0	30" Concrete Flared End Section	EA	2		
A2. 14.0	24" Concrete Flared End Section	EA	2		
A2. 15.0	Pavement Markings	LS	1		
A2. 16.0	Roadway Traffic Signs	EA	8		
A2. 17.0	Rip Rap	Tons	30		
ALTERNATE BID NO. 2					

Alternate Bid 3 - Concession Stands					
Item No.	Description	Unit	Quantity	Unit Price	Total
A3. 1.0	Site Grading and Preparation	LS	1		
A3. 2.0	Reinforced Concrete, 4" Thick	SF	10750		
A3. 3.0	Small Concession Building, Complete	EA	2		

PAY ITEMS SUPPLEMENTAL FORM

A3. 4.0	Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)	LS	1		
ALTERNATE BID NO. 3					

Alternate Bid 4 - Baseball Access Road & Parking Lot					
Item No.	Description	Unit	Quantity	Unit Price	Total
A4. 1.0	Site Grading and Preparation	LS	1		
A4. 2.0	Excess Excavation (LVM)	CY	5000		
A4. 3.0	Borrow Excavation (LVM)	SF	15000		
A4. 4.0	Reinforced Concrete, 4" Thick	SF	3285		
A4. 5.0	HMA Base Course, 19mm	Tons	5000		
A4. 6.0	HMA Surface Course, 9.5mm	Tons	3000		
A4. 7.0	Lime Treatment, 9" Thick	Tons	700		
A4. 8.0	Concrete Curb & Gutter	LF	500		
A4. 9.0	Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)	LS	1		
A4. 10.0	Parking Lot Lighting	LS	1		
A4. 11.0	Topsoil, 4" Thick	CY	250		
A4. 12.0	Landscaping, Complete	LS	1		
A4. 13.0	Pavement Markings	LS	1		
A4. 14.0	Roadway Traffic Signs	EA	18		
ALTERNATE BID NO. 4					

Alternate Bid 5 - Synthetic Turf Infields					
Item No.	Description	Unit	Quantity	Unit Price	Total
A5. 1.0	Site Grading & Preparation	LS	1.00		
A5. 2.0	Amended Topsoil, 6" Thick (Fields Only)	CY	(700.00)		
A5. 3.0	Warning Track Mix, 4" Thick	SY	(1462.00)		

PAY ITEMS SUPPLEMENTAL FORM

A5. 4.0	Infield Mix, 4" Thick	SY	(4208.00)		
A5. 5.0	Sod, Tifway 419 Hybrid Bermudagrass	SY	(4122.00)		
A5. 6.0	Irrigation System Modified (Deduct)	LS	(1.00)		
A5. 7.0	Infield Drainage System (Per Field)	EA	(6.00)		
A5. 8.0	Fine Grading	LS	1.00		
A5. 9.0	Concrete Curb	LF	475.00		
A5. 10.0	Geotextile Fabric	SY	979.00		
A5. 11.0	Stone Subsystem, 6" Thick	SY	9792.00		
A5. 12.0	1"x12" Flat Drain Network	EA	6.00		
A5. 13.0	Install Synthetic Turf, Complete	SF	88128.00		
A5. 14.0	Turf Grooming Machine	EA	1.00		
ALTERNATE BID NO. 5					

SECTION 01.2050
MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 Description

- A CONTRACTOR shall furnish all labor, materials, tools, equipment, appurtenances and all services necessary to perform all Work required, at the lump sum or unit prices for the items listed herein.
- B The items listed below beginning with Article 1.04, refer to and are the same pay items listed in the Unit Price Bid Table. These items constitute all of the pay items for the completion of the Contract. No direct or separate payment will be made for providing miscellaneous, temporary, or accessory works, plant, services, CONTRACTOR'S or ENGINEER'S field offices, layout surveys, job signs, sanitary requirements, testing, safety devices, approval and record drawings, water supplies, power, removal of waste, watchmen, bonds, insurance, taxes, and all other requirements of the Contract Documents. Compensation for all such services, things and materials shall be included in the prices stipulated for the lump sum and unit pay items listed herein.

1.02 Engineer's Estimate of Quantities

The ENGINEER'S estimated quantities for unit bid prices, as listed in the Unit Price Bid Table, are estimated and are included solely for the purpose of comparison of Bids. The OWNER does not expressly or by implication agree that the actual quantities of material required will correspond therewith and reserves the right to increase or decrease any quantity or to eliminate any quantity as OWNER may deem necessary.

1.03 Related Provisions Specified Elsewhere

- A Payments to CONTRACTOR: Refer to General Conditions.
- B Changes in Contract Price: General Conditions.

1.04 Pay Items –Bid – Rankin Trails Amphitheater & Baseball Park

BASE BID

- A Item 1.0 – Mobilization, Bonds & Insurance

Mobilization shall be measured as lump sum and shall include the cost for Contractor mobilization, all contract related bonds and insurances required as defined in the general conditions of the specifications.

The lump sum for Mobilization, Bonds & Insurance shall be paid 50% at the first progress payment and the remainder apportioned equally on a monthly basis, consistent with the construction schedule allowed in the specifications.
- B. Item 2.0 – Allowances – A general contingency allowance is included and outlined in section 01.2100.

SECTION 01.2050

MEASUREMENT AND PAYMENT

- C. Item 3.0 – Site Grading and Preparation
 Item A1.1.0 – Site Grading and Preparation
 Item A2.1.0 – Site Grading and Preparation
 Item A3.1.0 – Site Grading and Preparation
 Item A4.1.0 – Site Grading and Preparation
 Item A5.1.0 – Site Grading and Preparation

This item represents any work that may be required to prepare the site beyond Owner efforts. It is recommended that the Contractor investigate the site prior to bidding to determine the level of effort that may be required. The limits of anticipated Contractor grading operations are shown on the plan.

Site Grading and Preparation shall include, in addition to the requirements of the Earthwork section, the investigation of the existing prepared site and all applicable compaction testing in the area of proposed improvements, concession buildings, amphitheater structures, parking lots, etc. and all grading or operations required to achieve the elevations shown on the plans. If removal of materials is required, unclassified excavation will be stored on site in a location directed by the Engineer, at no additional cost. The cost of importing additional fill material, if required, shall be paid under separate item. The cost of removal and disposal of material from the site, if required, shall be paid under separate item. This item also includes any/all clearing and grubbing that may be required. Trees to remain protected are specifically noted on the plans.

Item A1.1.0 – Site Grading and Preparation shall also specifically include the removal of two (2) 24" RCP storm drains crossing Boyce Thompson Road, approximately 140 linear feet and all necessary trench restoration, maintenance and protection of traffic, and all else incidental to the removal.

Site Grading and Preparation shall be paid for on a lump sum basis.

Payment for Site Grading and Preparation will be made for the quantity as above determined, measured in lump sum, at the price per lump sum bid for in the Proposal, which price shall include the cost of the Site Grading and Preparation complete, all excavation, transport of excess material, backfill, contractor testing, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

- D. Item 4.0 – Excess Excavation (LVM), If and Where Directed
 Item A1.2.0 – Excess Excavation (LVM), If and Where Directed
 Item A2.2.0 – Excess Excavation (LVM), If and Where Directed
 Item A4.2.0 – Excess Excavation (LVM), If and Where Directed

Excess excavation will consist of excavation which cannot be satisfactorily used or disposed of onsite. Excess excavation may include any type, kind, or class of excavation which the Engineer determines must be removed from the site. Unless otherwise indicated in the contract, the Contractor shall provide a disposal area for excess excavation.

Payment will be made at the contract unit price per cubic yard of LVM, which shall be full compensation for completing the work as specified.

- E. Item 5.0 – Borrow Excavation (LVM), If and Where Directed
 Item A1.3.0 – Borrow Excavation (LVM), If and Where Directed
 Item A2.3.0 – Borrow Excavation (LVM), If and Where Directed
 Item A4.3.0 – Borrow Excavation (LVM), If and Where Directed

SECTION 01.2050

MEASUREMENT AND PAYMENT

Borrow Excavation shall include all materials, labor, equipment, tools, and incidentals necessary to furnish, place and, compact additional fill material, if required. This item shall be measured by the cubic yard of borrow excavation, loose vehicular measure (LVM), as defined by the Mississippi Standard Specifications for Road and Bridge Construction, Mississippi State Highway Department 2004 edition. Tickets for all material shall be provided.

The Contractor shall also have access to City owned property located on Kennedy Farm Parkway, to be used for the provision of borrow excavation. A geotechnical report entitled "Geotechnical Investigation – Kennedy Farm Parkway Property – Brandon, MS" is provided herein. The Owner will not charge a material fee, however, the Contractor, should this material be utilized shall be responsible for the excavation, labor, transport of said material as well as any associated permitting, if applicable and soil erosion protection.

Payment will be made at the contract unit price per cubic yard of LVM, which shall be full compensation for completing the work as specified.

F. Item 6.0 - Amphitheater, Complete (All Buildings, Stage, Bowl, Seating Areas)

Amphitheater, Complete (All buildings, Stage, Bowl, Seating Areas) shall be measured as a unit constructed and accepted, in accordance with a schedule of values to be provided by the Contractor. This item specifically includes all buildings, structures, seating bowl, etc located north of Boyce Thompson Road and specifically shown on the Architectural Plans. Items specifically excluded from measurement in this item are shown on civil plans. Payment will be made at the contract unit price, which shall be full compensation for all materials, labor, equipment, incidentals required to construct the building as shown on the plans. Payment under this item shall include compensation for all foundations, building structure, electrical, mechanical, plumbing, fixtures, furnishings, and finishes shown on plans. Utilities shall be included in this item to a point 5' from the exterior face of the building. No Separate payment will be made under Excess Excavation or Borrow Excavation, as directed in the geotechnical reports included herein for undercutting building and the cost shall be included in this item.

Payment for this structure will be made with appropriate documentation indicating percent completion being submitted with any payment request for this item.

G. Item 7.0 – Baseball Main Concession Building

Baseball Main Concession Building shall be measured as a unit constructed and accepted. Payment will be made at the contract unit price, which shall be full compensation for all materials, labor, equipment, incidentals required to construct the building as shown on the plans. Payment under this item shall include compensation for all foundations, building structure, electrical, mechanical, plumbing, fixtures, furnishings, and finishes shown on plans. Utilities shall be included in this item to a point 5' from the exterior face of the building. No Separate payment will be made under Excess Excavation or Borrow Excavation, as directed in the geotechnical reports included herein for undercutting building and the cost shall be included in this item.

Payment for this structure will be made with appropriate documentation indicating percent completion being submitted with any payment request for this item.

H. Item 8.0 – Dugout, Complete

SECTION 01.2050

MEASUREMENT AND PAYMENT

The Contractor shall construct the Dugout as documented in the construction drawings and in accordance with applicable specifications, including but not limited to the complete structural and electrical systems and other architectural items.

Payment for this structure will be made on a per unit basis with appropriate documentation indicating percent completion being submitted with any payment request for this item.

Price for this items shall include the cost of all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto to provide a complete a functioning building as documented in the construction drawings and applicable specifications.

I. Item 9.0 – Dugout w/ Scorekeepers Station, Complete

The Contractor shall construct the Dugout w/ Scorekeeper’s Station as documented in the construction drawings and in accordance with applicable specifications, including but not limited to the complete structural and electrical systems and other architectural items.

Payment for this structure will be made on a per unit basis with appropriate documentation indicating percent completion being submitted with any payment request for this item.

Price for this items shall include the cost of all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto to provide a complete a functioning building as documented in the construction drawings and applicable specifications

J. Item 10.0 – Backstop Wall

The Contractor shall construct the Backstop Wall as documented in the construction drawings and in accordance with applicable specifications, including but not limited to the complete structural and electrical systems and other architectural items.

Payment for this structure will be made on a linear foot basis with appropriate documentation indicating percent completion being submitted with any payment request for this item.

Price for this items shall include the cost of all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto to provide a complete a functioning building as documented in the construction drawings and applicable specifications.

K. Item 11.0 – Backstop Netting, 23’ High

The Contractor shall install a 23’ High Netting system above the backstop wall in the locations shown on the plan and in accordance with the details and as directed by the Engineer. The netting shall be a black Premium 2XT, #21 (200lb Break Strength) 1-7/8” Mesh Bordered Rope as manufactured by Richardson Athletics or approved equal. The Contractor shall install posts in accordance with the details and in accordance with manufacturer’s recommendations for net support. All posts shall be as specified in with the shade structure and wall details.

The Contractor shall submit manufacturer’s data certifying that product is designed for wind load requirements and conforms to applicable code regulations.

The Contractor, or Manufacturer, shall agree to repair or replace pole, netting, materials, and workmanship within specified warranty period. The system shall be warrantied against perforation

SECTION 01.2050

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or erosion of finish due to weathering, against fading, staining and chalking due to the effects of weather and solar radiation and shall be valid for a minimum of 3 years after the date of complete installation.

Backstop Netting, 23' High shall be paid for on a per linear foot basis.

Payment for Backstop Netting will be made for the quantity as above determined, measured in linear feet, at the price per foot bid in the Proposal, which price shall include the netting, posts, cable, delivery, installation complete, excavation, concrete backfill and all else necessary therefore and all other work in connection therewith and incidental thereto.

L. Item 12.0 – Shade Structure

The Contractor shall construct the Shade Structure as documented in the construction drawings and in accordance with applicable specifications, including but not limited to the complete structural and electrical systems and other architectural items.

Payment for this structure will be made on a unit basis (1 per field) with appropriate documentation indicating percent completion being submitted with any payment request for this item.

Price for this items shall include the cost of all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto to provide a complete a functioning building as documented in the construction drawings and applicable specifications.

M. Item 13.0 – Seating Platform

The Contractor shall construct the Seating Platform as documented in the construction drawings and in accordance with applicable specifications, including but not limited to the complete structural and electrical systems and other architectural items, including the provision of the chair back seats.

Payment for this structure will be made on a per unit basis with appropriate documentation indicating percent completion being submitted with any payment request for this item.

Price for this items shall include the cost of all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto to provide a complete a functioning building as documented in the construction drawings and applicable specifications.

N. Item 14.0 – Reinforced Concrete, 4" Thick
Item 15.0 – Reinforced Concrete, 6" Thick
Item A1.4.0 – Reinforced Concrete, 4" Thick
Item A3.2.0 – Reinforced Concrete, 4" Thick
Item A4.4.0 – Reinforced Concrete, 4" Thick

This item shall include all labor, materials, equipment, and incidentals required to construct sidewalks as shown in the plans.

Measurement of work for payment of this item shall be by the square foot of concrete installed to the nearest square foot.

Payment for Concrete Sidewalk, (All Depths), will be made for the quantity as above determined, measured in square feet at the price per square foot bid for the item in the Proposal. The price shall

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include the cost of complete installation, all materials, concrete, reinforcement, forming, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

O. Item 16.0 – Reinforced Concrete, 4" Thick – Integral Color

This item shall include all labor, materials, equipment, and incidentals required to construct a concrete band sidewalk, using an integrally colored concrete, in the location shown in the plans. The color shall be a grey tone and shall be selected by the Owner prior to installation.

Measurement of work for payment of this item shall be by the square foot of concrete installed to the nearest square foot.

Payment for Reinforced Concrete, 4" Thick – Integral Color, will be made for the quantity as above determined, measured in square feet at the price per square foot bid for the item in the Proposal. The price shall include the cost of complete installation, all materials, concrete, reinforcement, forming, color admixture, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

P. Item 17.0 – ADA Accessible Ramp w/ Truncated Domes

This item shall include all labor, materials, equipment, and incidentals required to construct a concrete ADA accessible ramp in accordance with the details and in the locations as shown on the plans.

Measurement of work for payment of this item shall be each ramp installed, measured from the curb and gutter to the back of adjacent sidewalk.

Payment for ADA Accessible Ramp, will be made for the quantity as above determined, at the price bid for the item in the Proposal. The price shall include the cost of complete installation, concrete, reinforcement, truncated dome panel, curb, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

Q. Item 18.0 – HMA Base Course, 19 mm
 Item 19.0 – HMA Surface Course, 9.5 mm
 Item A1.5.0 – HMA Base Course, 19 mm
 Item A1.6.0 – HMA Surface Course, 9.5 mm
 Item A2.4.0 – HMA Base Course, 19 mm
 Item A1.5.0 – HMA Surface Course, 9.5 mm
 Item A4.5.0 – HMA Base Course, 19 mm
 Item A4.6.0 – HMA Surface Course, 9.5 mm

This work consists of the construction of one or more lifts of asphalt pavement in accordance with these specifications and the specific requirements for the mixture to be produced and in reasonably close conformity with the lines, grades, thicknesses and typical sections shown on the plans or established by the Engineer.

Asphalt base shall be measured by weight (ton) to the nearest one hundredth of a ton. The weight shall be established, using approved scales designed for the purpose, to determine the weight of the empty tare (truck, trailer or other haul vehicle) (tare weight) and the total loaded weight of the haul vehicle (gross weight). The weight for measurement shall be the computed difference between the

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gross weight and the tare weight. The Contractor shall provide the Owner and Engineer with a vehicle load ticket for each load of material delivered. The load ticket shall include the date, project location, material type, material source, truck identification designation, gross weight, tare weight, and computed weight of material. Material for which delivery tickets are not provided shall not be measured for payment.

Payment will be made of the contract unit price per ton, which shall be full compensation for furnishing, hauling, placing, tack coat, spreading and compacting the asphalt.

- R. Item 20.0 – Lime Treatment, 9" Thick
 Item A1.7.0 – Lime Treatment, 9" Thick
 Item A2.6.0 - Lime Treatment, 9" Thick
 Item A4.7.0 - Lime Treatment, 9" Thick

Prior to the placement of asphalt courses, the Contractor shall chemically stabilize the subgrade, mixing a minimum of 5% hydrated lime compacted to a minimum of 95% Modified Proctor, ASTM th of 9". Hydrated Lime and placement shall be in accordance with the Mississippi Standard Specifications for Road and Bridge Construction, Mississippi State Highway Department 2004 edition.

Lime Treatment shall be measured by weight (ton) to the nearest one hundredth of a ton. The weight shall be established, using approved scales designed for the purpose, to determine the weight of the empty tare (truck, trailer or other haul vehicle) (tare weight) and the total loaded weight of the haul vehicle (gross weight). The weight for measurement shall be the computed difference between the gross weight and the tare weight. The Contractor shall provide the Owner and Engineer with a vehicle load ticket for each load of material delivered. The load ticket shall include the date, project location, material type, material source, truck identification designation, gross weight, tare weight, and computed weight of material. Material for which delivery tickets are not provided shall not be measured for payment.

Payment will be made of the contract unit price per ton, which shall be full compensation for furnishing, hauling, placing, spreading and compacting the subgrade in preparation for asphalt placement.

- S. Item 21.0 – Concrete Curb and Gutter
 Item A1.8.0 – Concrete Curb and Gutter
 Item A4.8.0 – Concrete Curb and Gutter

This item shall include all labor, materials, equipment, and incidentals required to place concrete curb and gutter in the locations shown on the plan, in accordance with the details.

Concrete Curb and Gutter shall be measured per linear foot of curb installed and accepted along the face of the curb.

Concrete Curb and Gutter shall be paid for at the contract unit price, complete in place, which shall be full compensation for completing the work. No separate payment shall be made for excavation, forming, finishing, reinforcement, jointing, curing or backfilling

- T. Item 22.0 – Vinyl Coated Black Chain Link Fence, 5' High
 Item 23.0 – Vinyl Coated Black Chain Link Fence, 6' High
 Item 24.0 – Vinyl Coated Black Chain Link Fence, 8' High

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The Contractor shall supply and install a 1 ¾" mesh, 9-gauge chain link black vinyl fence (height specified per plans) and gates as described in the specifications and details in the locations shown on the plans.

The quantity of Vinyl Coated Black Chain Link Fence for which payment will be made will be the length of the fence and gates, measured in linear feet, actually installed in accordance with the Plans. The cost of all pedestrian gates and swing gates shall be included in this item., and shall be included in the linear foot price.

Payment for Vinyl Coated Black Chain Link Fence, (height specified per plans) will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, all materials, concrete, posts, fabric, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

U. Item 25.0 – Ornamental Fence, 8' High

The Contractor shall supply and install an Aegis II, as manufactured by Ameristar Fence, or approved equal, ornamental steel fence and gates as described in the specifications and details in the locations shown on the plans.

The quantity of Ornamental Fence, 8' High for which payment will be made will be the length of the fence and gates, measured in linear feet, actually installed in accordance with the Plans. The cost of all pedestrian gates and swing gates shall be included in this item., and shall be included in the linear foot price.

Payment for Ornamental Fence, 8' High will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, all materials, concrete, posts, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

V. Item 26.0 – 4.5" Poly Top Cap, Yellow

The Contractor shall install 4.5" Poly Top Cap, Gold/Yellow as manufactured Richardson Athletics, or approved equal, in the locations shown on the plan. 4.5" Poly Top Cap shall be measured in linear feet of Poly Top Cap installed and accepted.

Payment will be made at the contract unit price, which shall be full compensation for all materials, labor, equipment, incidentals required to furnish and install the Poly Top Cap as shown on the plans.

W. Item 27.0 – Sports Lighting System

The Contractor shall install the Lighting System as manufactured by Musco Lighting, or approved equal, and in accordance with the specifications available in the Appendix. Specifically, the provision of the following is included:

- Complete Lighting of Fields 1-6 (24 Poles)
- Control Link connection for all fields
- Security Lighting (6 poles)

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Lighting System shall be paid for on a lump sum basis with appropriate documentation indicating percent completion being submitted with any payment request for this item. The system shall include all poles and associated fixtures, control panel, wiring, foundations, training, etc and all else as described in the specifications and as shown on the plans.

Payment for Lighting System will be made for the quantity as above determined, measured in lump sum, at the price per lump sum bid for in the Proposal, which price shall include the cost of the Lighting System complete, all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

- X. Item 28.0 – Parking Lot Lighting
 - Item A1.10.0 – Parking Lot Lighting
 - Item A2.8.0 – Parking Lot Lighting
 - Item A4.10.0 – Parking Lot Lighting

The Contractor shall install the parking lot lighting in the parking areas, designated by each Alternate Bid Area as shown on the plans, and in accordance with the specifications and details.

Rear Parking Lot Lighting shall be paid for on a lump sum basis with appropriate documentation indicating percent completion being submitted with any payment request for this item. The system shall include all poles and associated fixtures, wiring, future camera conduits, foundations, etc and all else as described in the specifications and as shown on the plans.

Payment for Rear Parking Lot Lighting will be made for the quantity as above determined, measured in lump sum, at the price per lump sum bid for in the Proposal, which price shall include the cost of the lighting complete, all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

- Y. Item 29.0 – Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)
 - Item A1.9.0 – Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)
 - Item A2.7.0 – Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)
 - Item A3.4.0 – Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)
 - Item A4.9.0 – Site Electrical, Complete (Conduits, Wiring, Conductors, Pullboxes, etc)

Site Electrical, Complete shall include all work associated in providing electric service to the new light poles, buildings, scoreboards, stage, etc and all related work as described and as illustrated on the electrical site plans (ES Sheets). Any trenches created with the installation of electric conduit shall be restored to original conditions and the cost shall be included in this item.

Site Electrical, Complete shall be paid for on a lump sum basis.

Payment for Site Electrical, Complete will be made for the quantity as above determined, measured in lump sum, at the price per lump sum bid for in the Proposal, which price shall include the cost of the Electric Service complete, wiring, conduit, conductors, pullboxes, transformer pads, all excavation, backfill, disposal, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

- Z. Item 30.0 – Scoreboard, Complete

The Contractor shall furnish Fair Play Model BA-7109-2 LED baseball scoreboards, or approved equal, 9'x4; high displaying Visitor and Home team scores 0-99, Inning 0-19 by changeable LED numerals.

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Ball, Strike, Out, H (hit) and E (error) to be shown by spot indicators. Provide all necessary vinyl captions and trim for above. Scoreboard cabinet color to be selected from standard colors.

Provide a completely wireless (power and communication) FAIR-PLAY Model MP-80 operator's controller console, or approved equal, with each scoreboard. Construction shall be an aluminum case 12.75" long by 2.25" high by 8" deep with 4 rubber slide-resistant feet. Operating features shall include a two-line LCD readout showing information as sent to the scoreboard display as well as constant display of time remaining or time lapsed; a changeable keypad to allow key identification change by sport, numeric keypad, plus and minus keys for quick sequential data entry, a push-type horn button and a positive action rocker switch for the "Time In" and "Time Out" function. Include a separate luggage type carrying case for console and instructions. Include capacitor-style internal battery back-up of complete controller.

Provide wireless controller system with the following features:

- Each controller console to be furnished with one transmitter and one flexible antenna.
- Each scoreboard to be furnished with one receiver and one flexible antenna.
- System allows for synchronized operation of two or more scoreboards from one controller or independent operation of up to 13 scoreboards from independent controllers all closely located.
- System utilizes Spread Spectrum Technology redundantly transmitting the same data at least 16 times per second.
- System must "hop" channels using 25 different frequencies at a rate of 10 per second.
- System refreshes the scoreboard with new data no less than 10 times per second for smooth and accurate operation of game clocks, including 1/10 second timing.
- System has 14 channels allowing wireless operation of adjacent scoreboard systems.
- System has a minimum transmission range of 300 feet indoors and 1000 feet outdoors.
- System allows unlimited scoreboards to be operated from one controller console.
- System to be FCC certified.
- Transmitter and receiver are built into the controller and scoreboard and do not require additional mounting provisions or special placement.

Display digits and indicators shall be made up of 2.3 inch by 2.3 inch circuit card mounted pixels. Each pixel shall be individually replaceable and contain nine LED's. LED's shall be amber in color. Digit height shall be 15 inches for Team Scores and Inning. Ball, Strike, Out, Hit and Error indicators shall each consist of one pixel in a 3 inch spot.

Pixels shall be environmentally sealed with a Dow-Corning potting mixture to protect the electronics from moisture. A neoprene gasket shall seal each circuit card to the cabinet, preventing moisture from entering the cabinet. Digits shall consist of the following number of pixels: 15 inch, 13 pixels. Each Ball, Strike, Out, Hit and Error indicator shall consist of 1 pixel. LED's shall be rated for 120° horizontal viewing angle and shall be designed with maximum contrast with black background surrounding LED pixels.

Scoreboard enclosure to be all aluminum alloy with a 0.050" metal thickness on the front and sides. Raised vinyl trim to border the entire cabinet and to separate information sections. All electronic components to be serviced from the front of the cabinet. Choice of standard or special manufacturer's colors to be available. Electronics to be packaged in a low voltage plug-in processor mounted inside the scoreboard cabinet accessible from the cabinet front. Scoreboard cabinet to be all aluminum with a .050 metal thickness on front sides. All service from front of cabinet with no tools required for access.

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Manufacturer shall provide 10 Year Warranty and Life-Time Service. All products are guaranteed against defects in workmanship and materials for ten years on a "factory exchange" basis.

Payment for Scoreboard, Complete will be made for the quantity installed, measured in lump sum, at the price per scoreboard bid for in the Proposal, which price shall include the cost of the scoreboard, controller, frame, attachments, wiring, all excavation, concrete, backfill, disposal, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

- AA. Item 31.0 – Landscaping, Complete
 Item A1.12.0 – Landscaping, Complete
 Item A2.10.0 – Landscaping, Complete
 Item A4.12.0 – Landscaping, Complete

Landscaping, Complete shall include all work as described and as illustrated on the landscaping plans (L0.0-L3.4 Sheets), including, but not limited to, plantings, grassing, irrigation systems, conduits, strawing, fertilizing, watering, etc, in the areas shown on the plans, delineated as a base bid or alternate bid area.

Landscaping, Complete shall be paid for on a lump sum basis. The Contractor shall provide a schedule of values for a basis of progress payments.

Payment for Landscaping, Complete will be made for the quantity as above determined, measured in lump sum, at the price per lump sum bid for in the Proposal, which price shall include the cost of the plantings, seeding, sodding, mulching, irrigation components, all excavation, backfill, disposal, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

- BB. Item 32.0 – Topsoil, 4" Thick
 Item A1.11.0 – Topsoil, 4" Thick
 Item A2.9.0 – Topsoil, 4" Thick
 Item A4.11.0 – Topsoil, 4" Thick

The Contractor shall import and place topsoil in all areas to receive seeding and as directed by the Engineer. Contractor shall furnish truck load tickets, based on loose vehicular measure (LVM), to serve as measure for payment.

Measurement of work for payment of this item shall be by cubic yards of material installed, 4" Thick.

Payment for Topsoil, 4" Thick will be made for the quantity as above determined, at the price per field in the Proposal. The price shall include the cost of excavation, hauling, stock piling, protecting, placing, spreading, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

- CC. Item 33.0 – Amended Topsoil, 6" (Fields Only)

The Contractor shall import and place amended topsoil for all areas within the baseball fields to receive sodding and as directed by the Engineer. Contractor shall furnish truck load tickets, based on loose vehicular measure (LVM), to serve as measure for payment. All amended topsoil shall meet the requirements outlined in Section 02920 – Topsoil of the civil specifications. The Contractor is permitted to import sand and other soil amendments to mix on site with topsoil meeting the

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requirements outlined in the specifications. The contractor shall provide, at no additional cost to the Owner, testing results indicating compliance with specified soil characteristics.

Measurement of work for payment of this item shall be by cubic yards of material installed, 6" Thick.

Payment for Amended Topsoil will be made for the quantity as above determined, at the price per field in the Proposal. The price shall include the cost of excavation, hauling, stock piling, protecting, placing, spreading, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

DD. Item 34.0 – Warning Track Mix, 4" Thick

The Contractor shall place warning track mix material, 4" thick, in the locations shown on the plans. The material shall be red, well-graded, with large aggregates less than 5/16" and enough small aggregates to bind the material shall be in accordance with the specifications herein.. The Contractor shall submit a sample for review and approval prior to ordering of materials.

Measurement of work for payment of this item shall be by square yards of material installed, 4" Thick.

Payment for Warning Track will be made for the quantity as above determined, at the price bid per square yard for the item in the Proposal. The price shall include the cost of complete installation, excavation, compaction, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

EE. Item 35.0 – Infield Mix, 4" Thick

The Contractor shall place infield mix material, 4" thick, in the locations shown on the plans. The infield mix shall be in accordance with the specifications herein. The Contractor shall submit a sample for review and approval prior to ordering of materials.

Measurement of work for payment of this item shall be by square yards of material installed, 4" Thick.

Payment for Infield Mix, 4" thick will be made for the quantity as above determined, at the price bid per square yard for the item in the Proposal. The price shall include the cost of complete installation, excavation, compaction, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

FF. Item 36.0 –Pitcher's Mound

The Contractor shall construct a pitcher's mound in the location shown on the plans and in accordance with the details and the specifications herein. The provision of the pitching rubber will be made under a separate item.

Measurement of work for payment of this item shall be by each mound actually constructed.

Payment for Pitcher's Mound will be made for the quantity as above determined, at the price bid per unit for the item in the Proposal. The price shall include the cost of complete installation, excavation, compaction, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

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GG. Item 37.0 – Sod, Bermuda Tifway 419 Hybrid Bermudagrass

Sod shall be measured per square yard and shall include all work described in the plans, in accordance with the vegetation schedule shown on the plans and described in Section 2900 – Establishment of Vegetation in locations as directed by the Engineer.

Sod shall be paid for at the contract unit price per square yard which shall constitute full compensation for all labor, materials, equipment and incidentals required to accomplish the work, except as provided for under separate pay items. Payment shall also include watering and mowing all sod installed under this contract as specified in the specifications.

HH. Item 38.0 – Seeding, Bermuda Common

Seeding shall be measured per Acre and shall include all work described in the plans, in accordance with the vegetation schedule shown on the plans and described in the specifications.

Seeding shall be paid for at the contract unit price per Acre which shall constitute full compensation for all labor, materials, equipment and incidentals required to accomplish the work, except as provided for under separate pay items. Payment shall also include watering and mowing all seeding installed under this contract as specified in the specifications.

II. Item 39.0 – Field Equipment (Pitching Rubber, Home Plate, Bases & Fence Signs)

The Contractor shall supply Schutt Hollywood Kwik-Release Base Sets (3 bases, including ground anchor mounts and plugs) or approved equals, and install in accordance with the details shown in the plans. It is the intent that the contractor will set base anchors at 70' bases paths and 60' base paths. The Contractor shall also include any applicable tools for use in removing and installing bases, cleaning out anchors, etc. The item also includes the installation of a Schutt Pro Home Plate and a Schutt Four Sided permanent pitching rubber, or approved equals in accordance with the manufacturer's recommendations. The Contractor shall also supply and install three (3) distance signs per field, as shown on the details.

Field Equipment shall be paid on a per unit basis, each unit containing 3 bases, 6 anchors, 3 plugs, 1 home plate, 1 pitching rubber, & 3 field signs.

Payment for Field Equipment will be made for the quantity as above determined, measured per unit, at the price per unit bid in the Proposal, which price shall include materials, delivery, installation and all else necessary therefore and all other work in connection therewith and incidental thereto.

JJ. Item 40.0 – Foul Poles

The Contractor shall install the Foul Poles as documented in the construction drawings and in accordance with applicable specifications.

Payment for the Foul Poles will be made on a per each pole basis with appropriate documentation indicating percent completion being submitted with any payment request for this item.

Price for this items shall include the cost of all materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto to install Foul Poles as documented in the construction drawings and applicable specifications.

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KK. Item 41.0 – Irrigation System (Ball Fields Only)

This work shall consist of providing and placing an irrigation system on each baseball field. The irrigation system shall be installed in accordance with these specifications and in close conformity with the locations and dimensions as shown on the plans or specified by the Engineer. The quantities of irrigation system materials as shown on the plans may be increased or decreased at the discretion of the Engineer based on actual site conditions that occur during construction of the project. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of work.

All required piping needed for connections to the water system, as well as all backflow preventers, shall also be included in this item. Controls for the irrigation system shall be located in the main concession building. The Contractor shall provide an irrigation layout to the Engineer for approval prior to ordering of materials.

This irrigation system required for plantings on site, as shown on the landscape plans will be paid for under a separate item.

The Irrigation System shall be paid for on a lump sum basis.

Payment will be made at the contract price, which shall be full compensation for pipe materials, irrigation heads, controllers, excavation, backfill, compaction, all equipment, labor and incidentals required to install the Irrigation System as detailed in the plans.

**LL. Item 42.0 – Curb Inlet, Double
Item 43.0 – Curb Inlet, Triple
Item A1.13.0 – Curb Inlet, Double**

Curb Inlets (All Sizes) shall be installed in locations shown on the plan and in accordance with the details on the plans and shall be measured in individual units, installed and accepted and shall include all work described in the specifications

Curb Inlets (All Sizes) shall be paid at the contract unit price per individual units, which shall be full compensation for materials, excavation, placement, backfill, compaction, equipment, labor and incidentals required to install grate inlets as detailed in the plans.

**MM. Item 44.0 – Grate Inlet, Type 1
Item 45.0 – Grate Inlet, Type 2
Item A1.14.0 – Grate Inlet, Type 2**

Grate Inlet (All Types) shall be installed in locations shown on the plan and in accordance with the details on the plans and shall be measured in individual units, installed and accepted and shall include all work described in the specifications.

Grate Inlet (All Types) shall be paid at the contract unit price per individual units, which shall be full compensation for materials, excavation, placement, backfill, compaction, equipment, labor and incidentals required to install grate inlets as detailed in the plans.

NN. Item 46.0 – Outfall Control Structure

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Outfall Control Structures shall be installed in locations shown on the plan and in accordance with the details on the plans and shall be measured in individual units, installed and accepted and shall include all work described in the specifications. Outfall control structures shall be as per the Grate Inlet, Type 2 detail with orifices cored out at the elevations shown on the plan.

Outfall Control Structures shall be paid at the contract unit price per individual units, which shall be full compensation for materials, excavation, placement, backfill, compaction, connections, grating, equipment, labor and incidentals required to install grate inlets as detailed in the plans.

- OO. Item 47.0 – 10" Corrugated Plastic Pipe
 Item 48.0 – 12" Corrugated Plastic Pipe
 Item 49.0 – 15" Corrugated Plastic Pipe
 Item 50.0 – 18" Corrugated Plastic Pipe
 Item 51.0 – 24" Corrugated Plastic Pipe

Corrugated Plastic Pipe (All Sizes) shall be installed in locations shown on the plan and in accordance with the details on the plans and shall be measured in linear feet, installed and accepted and shall include all work described in the specifications. All CPP shall be ADS HP Storm pipe, or approved equal. The cost of all backfill, stone and fabric, as detailed on the plans, shall be included in this item.

Payment for Corrugated Plastic Pipe (All Sizes) will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, all materials, bedding, excavation, backfill, compaction, pipe, fittings, connections, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

- PP. Item 52.0 – 15" Reinforced Concrete Pipe
 Item 53.0 – 18" Reinforced Concrete Pipe
 Item 54.0 – 24" Reinforced Concrete Pipe
 Item 55.0 – 30" Reinforced Concrete Pipe
 Item A1.15.0 – 15" Reinforced Concrete Pipe
 Item A1.16.0 – 18" Reinforced Concrete Pipe
 Item A1.17.0 – 24" Reinforced Concrete Pipe
 Item A1.18.0 – 30" Reinforced Concrete Pipe
 Item A2.11.0 – 24" Reinforced Concrete Pipe
 Item A2.12.0 – 30" Reinforced Concrete Pipe

Reinforced Concrete Pipe (All Sizes) shall be installed in locations shown on the plan and in accordance with the details on the plans and shall be measured in linear feet, installed and accepted and shall include all work described in the specifications. All CPP shall be ADS HP Storm pipe, or approved equal. The cost of all backfill, stone and fabric, as detailed on the plans, shall be included in this item.

Payment for Reinforced Concrete Pipe (All Sizes) will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, all materials, bedding, excavation, backfill, compaction, pipe, fittings, connections, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

- QQ. Item 56.0 – 30" Concrete Flared End Section

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Item 57.0 – 24" Concrete Flared End Section
Item A1.19.0 – 30" Concrete Flared End Section
Item A1.20.0 – 24" Concrete Flared End Section
Item A1.21.0 – 15" Concrete Flared End Section
Item A2.13.0 – 30" Concrete Flared End Section
Item A2.14.0 – 24" Concrete Flared End Section

Reinforced Concrete Flared End Sections (All Sizes) shall be measured per each flared end section actually installed.

Reinforced Concrete Flared End Sections shall be paid for at the contract unit price, which shall represent full compensation for all materials, labor, excavation, backfill, compaction, equipment and incidentals necessary to furnish, transport and install the flared end sections as shown on the plans.

RR. Item 58.0 - 24" HDPE Flared End Section
Item 59.0 – 15" HDPE Flared End Section
Item 60.0 – 12" HDPE Flared End Section
Item 61.0 – 10" HDPE Flared End Section

HDPE Flared End Sections (All Sizes) shall be installed in locations shown on the plan and in accordance with the details on the plans and shall be measured in individual units. Installation shall include all work described in the specifications. End Sections shall be manufactured with materials matching the connecting pipe, HDPE as shown.

HDPE Flared End Sections (All Sizes), shall be paid at the contract unit price per individual units, which shall be full compensation for materials, equipment, labor and incidentals required to install Flared End Sections as detailed in the plans.

SS. Item 62.0 - Pavement Markings
Item A1.22.0 – Pavement Markings
Item A2.15.0 – Pavement Markings
Item A4.13.0 – Pavement Markings

Pavement Markings shall include all work as described and as illustrated on the plans and as shown on the details, including, but not limited to, parking lot striping, roadway striping, stop bars, ADA parking, directional arrows, etc., and as delineated as a base bid or alternate bid area.

Pavement Markings shall be paid for on a lump sum basis.

Payment for Pavement Markings will be made for the quantity as above determined, measured in lump sum, at the price per lump sum bid for in the Proposal, which price shall include the cost of the striping, all materials, glass beads, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

TT. Item 63.0 – Trench Drain System, Complete

Trench Drain System, Complete shall include all work as described and as illustrated on the plans and as shown on the details, including, but not limited to, pre-sloped trench drain, inline catch basins, 12" or less SDR-26 PVC connections, Nyloplast Basin w/ locking grate, fittings, connections, gratings, etc. The Contractor shall install the trench system in accordance with the manufacturer's recommendations.

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Trench Drain System, Complete shall be paid for on a lump sum basis.

Trench Drain System, Complete shall be paid for at the contract unit price, which shall represent full compensation for all materials, presloped trench drains, inline basins, nyloplast basins, concrete, gratings, fittings, connections, excavation, backfill, labor, equipment and incidentals necessary to construct and install the trench drain as shown on the plans.

UU. Item 64.0 – Cable Trench

The Contractor shall install a Polycast 800 Series, or approved equal, trench drain with a solid iron grate in the locations shown on the plan, and in accordance with the details and manufacturer's recommendations. This item also includes the provision of a slotted grate tray for the entire length of the trench. The cost for connection to the trench drain system at its intersection shall also be included in this item.

Cable Trench shall be measured on a linear foot basis, based on the length of trench actually installed.

Trench Drain System, Complete shall be paid for at the contract unit price, which shall represent full compensation for all materials, pre-sloped trench drains, inline basins, nyloplast basins, concrete, gratings, fittings, connections, excavation, backfill, labor, equipment and incidentals necessary to construct and install the trench drain as shown on the plans.

VV. Item 65.0 – Infield Drainage System (Per Field)

This work shall consist of providing and placing a drainage system comprised of a geo-composite, prefabricated, water collection system and the associated water transport system as manufactured by Multi-Flow, or approved equal and as described in the plans. The drainage system shall be installed in accordance with these specifications and in close conformity with the locations and dimensions as shown on the plans or specified by the Engineer. The quantities of drainage system materials as shown on the plans may be increased or decreased at the discretion of the Engineer based on actual site conditions that occur during construction of the project. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of work. The provision of the infield wall underdrain, including cleanouts, fittings and 10" (unless other size specifically noted) collection pipe shall also be included in the cost of this item.

All required corrugated plastic pipe needed for connections to the stormwater system shall also be included in this item.

Infield Drainage system shall be paid for on a per field basis.

Payment will be made at the contract unit price per field, which shall be full compensation for pipe materials, excavation, backfill, compaction, sand, fabric, pipe, cleanouts, fittings, all equipment, labor and incidentals required to install the drainage system as detailed in the plans.

WW. Item 66.0 – Rip Rap
Item A1.24.0 – Rip Rap
Item A2.17.0 – Rip Rap

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This item shall be measured in tons of rip rap installed. Measurement shall be based upon delivery tickets provided by the material supplier. Tickets shall clearly list the type of material, date of delivery, total weight, tare weight and net weight. Geotextile fabric required under rip rap shall not be measured separately for payment.

Payment will be made at the contract unit price per ton of rip rap, which shall be full compensation for materials, equipment, labor and incidentals required to install rip rap as detailed in the plans.

XX. Item 67.0 – Fence Windscreen

The Contractor shall supply and install a Courtmaster 105 Royale Screen Open Mesh windscreen, 6' high, as manufactured by J.A. Cissel Mfg. Co., or approved equal, along the fence. The windscreen shall be secured properly and anchored to the fence, per manufacturer's recommendations.

The quantity of Fence Windscreen for which payment will be made will be the length of the windscreen, measured in linear feet, actually installed in accordance with the Plans.

Payment for Fence Windscreen will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

YY. Item 68.0 – Ramp Handrail

The Contractor shall supply and install a handrail in locations identified on the plan, in accordance with the details on the plans and shall comply with all applicable ADA standards. Handrails located within the Amphitheater bowl seating or along ramps adjacent to building areas shall be included under separate item.

The quantity of Ramp Handrail for which payment will be made will be the length of the handrail, measured in linear feet, actually installed in accordance with the Plans.

Payment for Handrail will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, rail, footings, excavation, compaction, all materials, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

ZZ. Item 69.0 – Erosion Control Maintenance

The Owner has installed erosion control devices in accordance with a SWPPP acquired and LCNOI currently on file. Once issued a Notice to Proceed, the Contractor shall assume responsibility for the maintenance of existing devices and the implantation of items not currently installed. Erosion Control maintenance shall be measured as a lump sum item in accordance with the plans and specifications. This item includes the placement of silt fence, wattles, temporary seed (if required) and all else required per the Storm Water Pollution Prevention Plan (SWPPP).

Erosion Control Maintenance shall be paid for at the lump sum price and shall constitute full compensation for furnishing, transporting, installing and removing the silt fence, any/all grassing needed and all else shown on plan and described in the specifications.

AAA. Item 70.0 – Connection to Existing 36" Sewer Main

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The Contractor shall make connections to the existing sanitary sewer main in the locations shown on the plans, in accordance with the specifications. All connections shall be coordinated with the West Rankin Utility Authority. Connection to Existing Sewer Main, (All Sizes) shall be measured per each connection actually constructed.

Connection to Existing Sewer Main, (All Sizes) shall be paid for at the contract unit price, which shall represent full compensation for all materials, labor, equipment, excavation, and incidentals necessary to partially demolish, form, furnish materials, construct the connection and backfill the excavation.

BBB. Item 72.0 – Precast 48" Sanitary Manhole

The Contractor shall install sanitary manholes in the locations shown on the plans, in accordance with the details and specifications herein. Precast 48" Sanitary Manhole shall be measured per each manhole actually constructed.

Precast 48" Sanitary Manhole shall be paid for at the contract unit price as above determined, which shall represent full compensation for all materials, furnishing and assembling precast sections for manholes, together with necessary fittings, bases, connections, xyphex waterproofing, labor, excavation, backfill, compaction, equipment and incidentals necessary to furnish, transport and install the manholes as shown on the plans.

**CCC. Item 72.0 – 6" SDR 26 Sanitary Sewer
Item 73.0 – 8" SDR 26 Sanitary Sewer**

Measurement for SDR 26 Sanitary (All Sizes) Sewer will be measured in place, by length in linear feet along the centerline of each line from the center to center of the intersecting line or to the farthest extent of terminal fitting with no deductions for valves, fittings, etc. Excavation, dewatering, backfilling, marking tape, locator wire, sheeting and shorting will not be measured separately, and shall be absorbed as a part of the item of the sewer main furnished and installed.

Payment for SDR 26 Sanitary (All Sizes) will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, excavation, backfill, bedding, all materials, fittings, connections, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

DDD. Item 74.0 – 12" Steel Casing (1/4" Thick) with Spacers and End Seal

Measurement for 12" Steel Casing with Spacers and End Seal will be measured in place, by length in linear feet along the centerline of each line from the center to center of the intersecting line or to the farthest extent of terminal fitting with no deductions for fittings, spaces, end seal etc. Excavation, dewatering, backfilling, marking tape, locator wire, sheeting and shorting will not be measured separately, and shall be absorbed as a part of the item of the water main furnished and installed.

Payment for 12" Steel Casing with Spacers and End Seal will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, excavation, backfill, bedding, all materials, fittings, thrust blocking, connections, testing, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

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- EEE. Item 75.0 – 6" PVC Sewer Cleanout
Item 76.0 – 8" PVC Sewer Cleanout

PVC Sewer Cleanout (All Sizes) shall be measured per each cleanout properly installed and accepted. Cleanouts shall be constructed in accordance with the details.

PVC Sewer Cleanout (All Sizes) shall be paid for at the contract unit price, which shall constitute full compensation for furnishing, transporting and installing the cleanout as shown on the plans. Covers, crushed stone, fittings, excavation and backfill shall not be measured for separate payment.

- FFF. Item 77.0 – Water Meter & Boxes, 2" Service Line w/Curbstop
Item 78.0 – Water Meter & Boxes, 4" Service Line w/Curbstop

Water Meter & Boxes, Service Line w/Curbstop (All Sizes) shall be constructed in the locations shown on the plans and in accordance with details and specifications herein. Water Meter & Boxes, Service Line w/Curbstop shall be measured per each properly installed and accepted.

Water Meter & Boxes, Service Line w/Curbstop (All Sizes) shall be paid for at the contract unit price, which shall constitute full compensation for furnishing, transporting and installing the Water Meter & Boxes, Service Line w/Curbstop as shown on the plans. Covers, crushed stone, fittings, connections, excavation and backfill shall not be measured for separate payment.

- GGG. Item 79.0 – 8" Ductile Iron C350 Fire Line

Measurement for 8" Ductile Iron C350 Fire Line will be measured in place, by length in linear feet along the centerline of each line from the center to center of the intersecting line or to the farthest extent of terminal fitting with no deductions for valves, fittings, etc. Excavation, dewatering, backfilling, marking tape, locator wire, sheeting and shorting will not be measured separately, and shall be absorbed as a part of the item of the water main furnished and installed.

Payment for C900 Water Main will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, excavation, backfill, bedding, all materials, fittings, thrust blocking, connections, testing, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

- HHH. Item 80.0 – 8" C900 Water Main
Item 81.0 – 6" C900 Water Main
Item 82.0 – 4" C900 Water Service Line
Item 83.0 – 2" C900 Water Service Line

Measurement for C900 Water Main will be measured in place, by length in linear feet along the centerline of each line from the center to center of the intersecting line or to the farthest extent of terminal fitting with no deductions for valves, fittings, etc. Excavation, dewatering, backfilling, marking tape, locator wire, sheeting and shorting will not be measured separately, and shall be absorbed as a part of the item of the water main furnished and installed.

Payment for C900 Water Main will be made for the quantity as above determined, measured in linear feet at the price per linear foot bid for the item in the Proposal. The price shall include the cost of complete installation, excavation, backfill, bedding, all materials, fittings, thrust blocking,

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connections, testing, labor, equipment, and all else necessary therefore and all other work in connection therewith and incidental thereto.

- III. Item 84.0 – 8" Gate Valve & Box
Item 85.0 – 6" Gate Valve & Box

8" Gate Valve & Box shall be constructed in the locations shown on the plans and in accordance with details and specifications herein. 8" Gate Valve & Box shall be measured per each properly installed and accepted.

8" Gate Valve & Box shall be paid for at the contract unit price, which shall constitute full compensation for furnishing, transporting and installing the gate valve and box as shown on the plans. Covers, crushed stone, fittings, connections, excavation and backfill shall not be measured for separate payment.

- JJJ. Item 86.0 – Fire Hydrant & Assembly

The Contractor shall install a Mueller Super Centurion 250 A-423 Fire Hydrant & Assembly in the locations shown on the plans and in accordance with details and specifications herein. All Hydrants are to be painted white. Fire Hydrant & Assembly shall be measured per each properly installed and accepted.

Fire Hydrant & Assembly shall be paid for at the contract unit price, which shall constitute full compensation for furnishing, transporting and installing the Fire Hydrant & Assembly as shown on the plans. Crushed stone, fittings, connections, excavation and backfill shall not be measured for separate payment.

- KKK. Item 87.0 – Blow-Off Assembly

Blow-Off Assemblies shall be constructed in the locations shown on the plans and in accordance with details and specifications herein. Blow-Off Assemblies shall be measured per each properly installed and accepted.

Blow-Off Assemblies shall be paid for at the contract unit price, which shall constitute full compensation for furnishing, transporting and installing the assembly as shown on the plans. Concrete blocking, valve, riser, fittings, connections, excavation and backfill shall not be measured for separate payment.

- LLL. Item 88.0 – Connection to Existing 12" Water Main

The Contractor shall make connections to the existing 12" water main in the locations shown on the plans, in accordance with the specifications. All connections shall be coordinated with the City of Brandon Water Department, prior to connection. Connection to Existing 12" Water Main shall be measured per each connection actually constructed. This item specifically includes all trench restoration, pavements included.

Connection to Existing 12" Water Main, (All Sizes) shall be paid for at the contract unit price, which shall represent full compensation for all materials, labor, equipment and incidentals necessary to excavate, tap connection, furnish materials, construct the connection and backfill the excavation, and restore trench to original condition.

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ALTERNATE BID #1

- MMM. Item A1.23.0 – Roadway Traffic Signs
Item A1.16.0 – Roadway Traffic Signs
Item A1.14.0 – Roadway Traffic Signs

Roadway Traffic Signs shall be measured per each (EA) traffic sign installed and accepted. A traffic sign assembly shall consist of the sign(s), post(s), excavation and concrete footings installed as one unit as shown on the plans.

Roadway Traffic Signs shall be paid for at the contact unit price which shall constitute full compensation for all materials, equipment, labor and incidentals required to furnish, assemble, maintain and remove the construction sign assembly.

ALTERNATE BID #3

- NNN. Item A3.3.0 – Small Concession Building, Complete

Small Concession Building, Complete shall be measured as a unit constructed and accepted. Payment will be made at the contract unit price, which shall be full compensation for all materials, labor, equipment, incidentals required to construct the building as shown on the plans. Payment under this item shall include compensation for all foundations, building structure, electrical, mechanical, plumbing, fixtures, furnishings, and finishes shown on plans. Utilities shall be included in this item to a point 5' from the exterior face of the building. No Separate payment will be made under Excess Excavation or Borrow Excavation, as directed in the geotechnical reports included herein for undercutting building and the cost shall be included in this item.

Payment for this structure will be made with appropriate documentation indicating percent completion being submitted with any payment request for this item.

ALTERNATE BID #5 – SYNTHETIC TURF INFIELDS

- OOO. Item A5.6.0 – Irrigation System Modified

This item includes the removal of all irrigation lines and sprinkler heads within the synthetic turf infield area and should represent a deduction in cost to the in the base bid, Item No. 40 – Irrigation system. shall include all work as described and as illustrated on the plans and as shown on the details,

Irrigation System Modified shall be paid for on a lump sum basis, shown as a deduction.

- PPP. Item A5.8.0 – Fine Grading

Fine Grading includes precise grading of the subgrade to the lines and elevations shown on the plans, as adjusted for the thickness of the turf system, complete, underlayment materials and stone, to ensure an adequate surface free of drainage problems and to tie in with existing grades at the perimeter of the turf field. The Contractor shall utilize laser controlled grading equipment to ensure proper construction. The Contractor shall be responsible for the excavation, transport, placement, grading, and compaction of the soil/materials required to achieve the proposed grades for the entire project. All excavation shall be unclassified. The Contractor is directed to Division 2 of this specification for additional requirements on Earthwork and Fine Grading.

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The finished surface of the subgrade shall have a finished grade in accordance with the Plans and Specifications. Final subgrade shall not deviate (tolerance-to-grade) by more than plus or minus 0.25" (0.02') from designated compacted grade elevations when checked by 25' grid survey. Surface shall not indicate any deviation more than 0.25" (0.2') in 10' (any direction) when placed under a 10' straight edge. This tolerance shall be required over the entire field. A certified survey shall be performed on a 25-foot grid to verify grade and elevation of the subgrade.

Payment for Fine Grading will be made for the quantity as above determined, at the lump sum price bid for the item in the Proposal, which price shall include the cost of the grading complete, all excavation, backfill, compaction, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

QQQ. Item A5.9.0 – Concrete Curb

The Contractor shall install a concrete curb in the location shown on the plan as the perimeter anchoring system for the synthetic turf and in accordance with the details shown on the plan.

The quantity of Concrete Curb for which payment will be made will be on a linear foot basis.

Payment for Concrete Curb will be made for the quantity that is actually installed, on a linear footage basis as provided in the Proposal. The price shall include the cost of forming, pouring the concrete, all excavation, compaction, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

RRR. Item A5.10.0 – Geotextile Fabric

A polypropylene, nonwoven engineered textile shall be installed on the finished subgrade of the field area prior to installation of the selected drainage system. Fabric is to be Propex 4551 as provided by Propex Fabrics Inc., 260 The Bluffs, Austell, GA 30168, (Ph: 770-944-4569) or approved equal.

Prior to installation, the subgrade surface is to be uniform and free of rocks, depressions, voids, and irregularities that might damage liner. Install liner in accordance with Liner Manufacturer's recommendations.

The quantity of Geotextile Fabric for which payment will be made will be on a square yard basis.

Payment for Geotextile Fabric will be made for the quantity actually installed, on a square yard basis as stated in the proposal. The price shall include the cost of installation complete, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental

SSS. Item A5.11.0 – Stone Subsystem, 6" Thick

The Contractor shall install a Stone Subsystem, 6" Thick in accordance with the details on the plans in the location of the playing field as shown on the plans.

A uniformly mixed processed stone shall be placed over the entire subbase, which has been covered with the geotextile fabric. The aggregate shall consist of a minimum 6" compacted, stable, permeable, processed stone. Care shall be taken to maintain the grade designed for the

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base. The capability of the processed stone drainage layer to meet the stability and permeability requirements must be determined by a certified laboratory prior to construction of the course. Aggregate shall be durable and not exceed 12% loss of materials as determined by a sulfate soundness test (ASTM C88). The processed stone layer shall be compacted to a minimum of 95% of maximum density (per ASTM D698).

Typical aggregate or aggregate blends found acceptable, as a processed stone drainage course should conform to the following gradation for the lower 5" of the system:

SIEVE SIZES

<u>Sieve</u>	<u>Percent Passing by Weight</u>
1.50"	100
1"	95-100
0.5"	25-60
No. 4	0-10
No. 8	0-5

Typical aggregate or aggregate blends found acceptable, as a processed stone drainage course should conform to the following gradation for the top 1" of the system:

SIEVE SIZES

<u>Sieve</u>	<u>Percent Passing by Weight</u>
.50"	100
.375"	85-100
No. 4	10-30
No. 8	0-10
No. 16	0-5

Delivery Moisture Content of Stone Base

Processed stone must contain 90% to 110% of the optimum moisture content to ensure that fines do not migrate in transit or during placement and to facilitate proper compaction. It is critical that the installation contractor ensure that aggregate leaving the source plant meet this requirement. The Contractor shall apply water to the processed stone on site to attain and maintain this minimum moisture content.

Handling & Placement

- a) Prior to aggregate placement, remove any excess or contaminated backfill from the drainage trenches.
- b) Should any separation of the materials occur, during any stage of the spreading or stockpiling, the Contractor must immediately remove and dispose

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- of segregated material and correct or change handling procedures to prevent any further separation. Double handling of materials should be avoided.
- c) The Contractor shall utilize laser-controlled equipment for the grading of the processed stone to ensure accuracy in grading tolerances.
 - d) Install processed stone base, whenever possible, from sideline toward centerline, parallel to the composite drain network, to the lines and grades shown on the drawings. Distance material is pushed from point of discharge should be limited to that where segregation of materials does not occur.
 - e) Each layer must be spread uniformly with equipment that will not cause perceptible separation in gradation (segregation of the aggregates), preferably a self-propelled paving machine, or a small grader or low ground pressure (LPG) dozer.
 - f) The Contractor shall grade the surface of the processed stone acceptable to receive the final synthetic turf surface system.

Compaction and Planarity

- a) The processed stone shall be compacted to a minimum density of not less than 95% of maximum density as determined by ASTM D698.
- b) The finished aggregate surface shall not deviate (tolerance-to-grade) by more than plus or minus .25" (.02') from designated compacted grade elevations when checked by 25' grid survey. Surface shall also not indicate any deviation more than .25" (.02') in 10' (any direction) when placed under a 10' straight edge. This tolerance is required over the entire field.

Areas that deviate should be marked with spray paint and corrected by re-grading or filling low areas with crushed stone, granite chips or screenings, and rolling tight to achieve proper density.

Testing of Completed Aggregate Drainage Layer

- a) The surface of the processed stone course shall be well drained at all times. No standing water shall be permitted at any time. The permeability of the aggregate shall be field checked. Test samples shall be taken (at a minimum of) one sample per every 10,000 square feet or as otherwise directed by the Owner's Representative. Final in-place aggregate shall have a percolation rate of not less than 20" per hour. Surface elevations and planarity shall be verified by means of an independent survey utilizing a maximum grid size spacing of 25' x 25'. (Grid size may be reduced to 20' x 20' or even 10' x 10' depending on individual field dimensions and configuration.)
- b) All test results will be logged and documented by the Owner's Representative or Project Engineer. If at any time the processed stone base does not meet specifications, it shall be the Contractor's responsibility to restore, at his expense, the processed stone base to the required grade, cross-section, and density.
- c) When the Contractor has independently confirmed that he is in compliance with all the above listed requirements (planarity and elevation verified by a licensed Surveyor and compaction, gradation, and permeability verified by the specified tests), he shall notify the Owner's Representative to schedule a final

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inspection by the Synthetic Turf System Installer. During this final inspection, the Contractor shall make available an orbital laser system for checking grades. Any deficiencies uncovered during this inspection must be remedied to the satisfaction of the Synthetic Turf System Installer before the base system will be considered acceptable.

The quantity of 6" Stone Subsystem for which payment will be made will be on a square yard basis.

Payment for 6" Stone Subsystem will be made for the quantity there of actually installed, on a square yard basis as indicated in the Proposal. The price shall include the cost of installation complete, stone, compaction, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto

TTT. Item A5.12.0 – 1" x 12" Flat Drain Network

The Contractor shall install ADS AdvanEdge 1" x 12" Flat Drain or approved equal with sleeve, laid flat on the subgrade, in accordance with industry standards. The pipe shall be installed in accordance with Division 5. All connections to proposed structures and perimeter drains shall be included in the price of the pipe.

Install composite underdrain conduits at approximately 20' on center at a 45-degree angle to sidelines or as otherwise indicated on the drawings. Composite drains shall be laid directly on top of the geotextile fabric liner, securing every 15 linear feet with duct tape. Drape ends of these flat drains into the perimeter underdrain collector trench system.

Payment for 1" x 12" Flat Drain will be made for the installation of the entire underdrain network in the field as outlined on the plans and on the details, measured as a lump sum, at the price bid lump sum in the Proposal, which price shall include the cost of the pipe complete, in place and functioning, connection to perimeter underdrain, fittings; all excavation, backfill, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

UUU. Item A5.13.0 – Install Synthetic Turf, Complete

The Contractor shall install a Synthetic Turf Infield, Complete in the location shown on the plan in accordance with the details on the plan and as recommended by the manufacturer. The installed turf shall be a monofilament product, with a 2.0" pile height. The Contractor is referred to the Appendix for specific requirements for this item.

The quantity of Install Synthetic Turf, Complete for which payment will be made will be on a square foot basis.

Payment for Install Synthetic Turf, Complete will be made for the quantity there of actually installed, on a square foot basis in the Proposal. The price shall include the cost of installation complete, compaction, materials, labor, equipment and all else necessary therefore and all other work in connection therewith and incidental thereto.

VVV. Item A5.14.0 – Turf Grooming Machine

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The Contractor shall provide a Synthetic Sports Turf Groomer (Model #720SDE) with Green Slicer Spring Tine Rake with Brush Attachment (Model #STR) as provided by GreensGroomer WorldWide, Inc. (Phone 888-298-8852 www.greensgroomer.com) or approved equal to the Township. The Contractor shall provide an informative tutorial to the Owner as to the function of said machine as well as the frequency with which the turf shall be maintained. An Operations and Maintenance Manual shall also be provided.

Turf Grooming Machine shall be paid on a per unit basis.

Payment for Turf Grooming Machine will be made for the quantity as above determined, measured per unit, at the price per unit bid in the Proposal, which price shall include the unit, delivery, tutorial

**** END OF SECTION ****



SOILTECH CONSULTANTS

Geotechnical Engineering

**Geotechnical Investigation
Kennedy Farm
Parkway Property
Brandon, Mississippi**

Prepared for

**City of Brandon
Department of Public Works
1000 Municipal Drive
Brandon, Mississippi 39042**

February 5, 2016

February 5, 2016

City of Brandon
Department of Public Works
1000 Municipal Drive
Brandon, Mississippi, 39042

Project No. ST.02351.000.001

Attention: Mr. Darion Warren, CFM, TCS Director

Re: Geotechnical Investigation
Kennedy Farm Parkway Property
Brandon, Mississippi

Dear Mr. Warren:

Submitted herein are the results of our geotechnical investigation for the above referenced project. This work was performed in accordance with our proposal dated January 21, 2016 as authorized by Darion Warren on January 21, 2016.

This report presents our findings and general recommendations related to foundation and pavement design and construction. Based on the results of this investigation, lightly loaded buildings that may be planned for the proposed development could be supported satisfactorily on a shallow foundation system. Pavement could consist of either asphalt or concrete. Details of our findings are presented in the body of this report.

We appreciate the opportunity of providing services to you. If we can answer any questions or provide additional information, please call.

Very truly yours,
SoilTech Consultants, Inc.



Bobby Garrett Hill



Michael K. Volk, P.E.

Copies Submitted: (2)

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Figure 1 – Site Location Map

Figure 2 – Boring Location Map

Figure 3 – Generalized Soil Profile A-A¹

Appendix A

Graphical Soil Boring Logs

Soil Classification Chart

Table 1 – Summary of Laboratory Data

Plasticity Results

1.0 INTRODUCTION

The Department of Public Works for the City of Brandon is developing plans for a future development in Brandon, Mississippi. The site is located off Kennedy Farm Parkway and near the intersection with Louis Wilson Drive. A general location of the site is presented on Figure 1.

1.1 Purpose and Scope

The purposes of the investigation reported herein were as follows:

- To determine soil and groundwater conditions in the proposed development area;
- To evaluate pertinent geotechnical engineering properties of the soils encountered; and
- After analyses of available field and laboratory data, to develop general guideline recommendations related to site development, and general foundation and pavement design and construction.

2.0 PROJECT INFORMATION

Proposed Development: The investigation was performed to formulate guideline recommendations related to soil characteristics for future development of roadbeds and building foundations to be determined later.

Site Conditions/Development: Site grades are currently relatively level with little elevation change across the proposed development area. We understand finished floor elevations (FFE) of the proposed development will be at or very near current elevations present within the building area. As such, we anticipated minimal grading will be required to establish finished subgrade elevation.

3.0 FIELD INVESTIGATION

The field investigation for this study was completed on January 28, 2016. Subsurface conditions at the project site were investigated by five soil borings made at the locations shown on Figure 2. A rubber tire-mounted drill rig utilizing machine auger drilling techniques advanced the borings. Graphical soil boring logs showing the types of soils encountered are presented in Appendix A. Symbols and soil classifications used in the graphical boring logs are presented in the Soil Classification Chart in Appendix A.

The borings were located in the field by using hand held GPS coordinates at locations that were given to us by the City of Brandon. Elevations of the borings were estimated from the available topographic survey. The locations and elevations of the borings should be considered accurate only to the degree implied by the methods used in their determination.

Soil Sampling. Relatively undisturbed samples of soils were taken by pushing a 3-inch outer diameter thin-wall Shelby tube sampler a distance of approximately 2 feet into the soils with hydraulic cylinders on the drill rig (ASTM D1587). Depths at which these samples were taken are indicated by shaded portions in the "Samples" column of the boring logs. After the Shelby tube was recovered from a boring, the sample was carefully extruded and examined visually. One representative portion of each sample was selected and sealed with melted paraffin in a cylindrical cardboard container to prevent loss of moisture and to protect the sample during transportation to the laboratory. Another portion of each undisturbed sample was also selected and sealed in a plastic jar for ease in subsequent visual examination.

4.0 LABORATORY TESTING

The engineering properties of the soils encountered at this site were determined by means of tests completed in our laboratory. Laboratory tests completed for this study include natural moisture content, visual classification, percent fines, unconfined compression and liquid and plastic limits. These tests were performed in accordance with recognize ASTM standards and procedures that are summarized in Table 4.0.1 below.

Table 4.0.1 Laboratory Testing	
Test Designation	Procedure
Moisture Content	ASTM D2216
Atterberg Limit	ASTM D4318
Shrinkage Limit	ASTM D427
Grain Size Determination	ASTM D422
200 Wash (percent fines)	ASTM C1140
Unconfined Compression	ASTM D2166

5.0 SUBSURFACE CONDITIONS

Borings B-1 through B-5 were drilled in the area of the proposed development as specified by the client and presented in the Boring Location Map on Figure 2. Specific types and depths of subsurface strata encountered at the boring locations are shown in detail on the boring logs presented in Appendix A. Symbols and soil classifications used in the graphical boring logs are also presented in Appendix A. The depths on the boring logs refer to the depth from the existing (January 2016) ground at the time of our field investigation. The generalized subsurface conditions encountered in the borings are discussed in the following sections.

5.1 Geology

Based on review of the *Geologic Map of Mississippi – Alvin R. Bicker, Jr. 1969*, the site is located within the Vicksburg Group and Chickasawhay limestone near its contact with the Forest Hill Formation. The Chickasawhay limestone consist of a sandy limestone and sand, present only in eastern Mississippi (mapped with it is the overlying Paynes Hammock sand of Miocene age). The Vicksburg Group consists of predominately limestone and marl, but contains some bentonite and near the top, chocolate-colored clay and some sand.

5.2 Generalized Soil Profile

A generalized soil profile, A-A', is presented in Figure 3. Soil conditions at the site can generally be characterized as outlined in Table 5.2.1 below:

Table 5.2.1 Generalized Soil Profile				
Strata Designation	Material Description	USCS	Consistency/Density	Depth Range to Bottom of Strata (feet)
1	Silty Clay	CL	Medium to Very Stiff	Surface to 7 to 11
2	Sandy Clay	CL	Stiff to Very Stiff	7 to 16
3	Clay	CH	Stiff to Hard	7 to TD
4	Limestone	--	NA	B-2 at 18 feet and B-5 at 13 feet

The soil boring logs in Appendix A provide details of the specific conditions encountered at each boring location and the field and laboratory test data collected. A statistical summary of the laboratory test results for each stratum is presented in Table 1.

The boring logs contain our field representative's interpretation of conditions that are believed to exist in those depth intervals between the actual samples taken. Therefore, these boring logs contain both factual and interpretative information.

5.3 Groundwater

At the time of our investigation, no free water was observed in the borings within the depths explored (within the upper 20 feet) of the ground surface. This does not necessarily mean groundwater is not present within the depths explored. The low permeability clay soils present in the borings may result in very slow infiltration rate and stabilization of groundwater may require an extended period. Accurate groundwater observations may require the use of piezometers monitored over a long period of time.

Notes pertaining to groundwater are presented on each graphical boring log in Appendix A. The presence and depth to groundwater may fluctuate with seasonal rainfall, site topography, site drainage conditions, and other environmental factors. As a result, groundwater conditions at the time of construction may be different from those conditions recorded during our field investigation. Groundwater conditions should be verified near the time of construction.

5.4 Seismic Considerations

According to the IBC 2012, the seismic site class is defined based on the site soil properties in ASCE 7, *Chapter 20 – Site Classification Procedure for Seismic Design*. Referring to ASCE 7 Chapter 20, the seismic site class is considered Type D for this site.

6.0 GEOTECHNICAL CONSIDERATIONS

The general recommendations provided in the following sections are based on the assumption the finished subgrades will closely mirror current grades. Should site development require the need for significant raising or lowering of surface grades, this office should be notified to review the grading package and evaluate the effect, if any, on the recommendations provided herein.

Expansive Clay: Review of the information obtained during our site investigation indicates the site is underlain by highly plastic/expansive clay at a depth of seven to 16 feet below the ground surface. The expansive clay is subject to shrink/swell related movement with changes in soil moisture content (moisture induced). As the clay transitions from a dry condition to a moist condition with increases in soil moisture, the clay will experience expansion. This expansion will be realized in grade supported improvements as heave. As the clay transitions from a moist

condition to a dry condition with decrease in soil moisture, the clay will experience shrinkage. This shrinkage will be realized by grade supported improvements as settlement. These changes in soil moisture can be caused by but are not limited to; prevailing weather (rain/heat), irrigation, utilities, and root systems of vegetation.

In order to help limit the potential for post construction movement associated with moisture induced volumetric change within the expansive clay, a “buffer” of low permeability, low-volume change soil should be constructed between the bottom of the new grade-supported improvement and the surface of the expansive clay. The buffer will serve to remove the expansive clay from the immediate proximity of the improvement and reduce the thickness of expansive clay present within the zone of active moisture variation, create a zone of soil that will not be subject to significant movement with variation in soil moisture, minimize soil desiccation, and help to limit variation in the moisture content within the expansive clay underlying the buffer. Recommendations related to mitigation of the expansive clay are presented in the following sections.

7.0 SITE PREPARATION

Proper site preparation is a key aspect of the performance of new construction. Factors that can affect both the short and the long-term success of construction can include but may not be limited to removal of objectionable materials present at the site, proper clearing and stripping of vegetation, discovery and mitigation of unstable or unsuitable soil materials, proper placement of fill materials, and long-term drainage conditions. Details related to proper site development are presented in the sections below.

7.1 Objectionable Materials

Site preparation for this project should include, as a minimum, the removal of objectionable materials at or near the existing ground surface. Clearing, stripping, and grubbing should be performed in order to remove objectionable materials that include but are not limited to organic matter, debris, trees/stumps/roots. Where trees have been removed, the tree root bulb should be overexcavated to a depth where all of the roots have been removed.

7.2 Proof Rolling and Unstable Soils

Subsequent to removal of objectionable materials and prior to commencement of construction operations, the exposed subgrade should be evaluated for stability. This can be accomplished by proof rolling. Proof rolling should be performed with a minimum of two passes by a fully-loaded dump truck or other suitable vehicle approved by the geotechnical engineer of record. After proof rolling, areas that are unstable (soft or “pump”) may require mitigation. Mitigation might include excavation of the unstable soils followed by replacement with select fill, moisture conditioning the in-situ soils, chemical stabilization, or subgrade reinforcement with a geotextile. Should mitigation be necessary, this office should be notified to prescribe the appropriate mitigation based on the conditions observed and proposed use of the area.

Proof rolling should be performed within two days of commencement of placement of fill, construction of foundations, or construction of pavement. If a significant amount of time occurs between the completion of the proof roll and the described operations, the subgrade could be subject to softening and/or degradation from construction traffic and/or weather. If a period of more than two days occurs between the proof roll and construction, an additional proof roll should be performed to confirm stable subgrade conditions.

The near-surface soils at this are sensitive to increases in moisture content and have a tendency to lose strength as the moisture content increases or as construction vehicles pass over the area. Soils that are stable during proof rolling and compaction could become unstable from exposure to inclement weather and/or construction vehicles. Should the soils become unstable during the construction process, mitigation as described above may be required.

7.3 Mitigation of Expansive Clay

In order to help limit the potential for post construction movement associated with volumetric changes within the expansive clay as a result of moisture variation, a layer of low permeability, low-volume change soil (i.e. lean clay) commonly referred to as a “buffer” is recommended between the bottom of the grade-supported improvement and the surface of the clay. For this site, the buffer should consist of a minimum thickness of seven feet between the bottom of the foundation(s) and the expansive clay interface.

Considering construction of new pavement, the buffer thickness can be reduced to a minimum of three feet below the bottom of the pavement section. The buffer should extend a minimum of 5 feet beyond the outside edges of the pavement.

7.4 Structural Fill Materials

Table 7.4.1 Structural Fill			
Material (USCS)	Physical Properties	Minimum Compaction (%) (ASTM D698)	Moisture Content (%) (ASTM D698)
Silty Clay (CL) Sandy Clay (CL) Clayey Sand (SC)	$LL \leq 45$ $10 \leq PI \leq 25$	98	(+/-) 3

Structural fill should be placed in maximum 9-inch thick horizontally placed loose lifts. This placement thickness should be decreased to a maximum of 6 inches when using hand operated compaction equipment. The surface of each lift of select fill should be lightly scarified prior to placement of the subsequent lift.

Field density tests should be completed in each lift of structural fill. We recommend a minimum of one test per every 2,000 square feet per lift in the building area with a minimum of three tests per lift. We also recommend one test per every 5,000 square feet per lift in pavement areas and one test per every 50 linear feet per lift within trench work.

7.5 Excavations

Any excavations necessary for construction should be made in compliance with OSHA regulations. The federal regulations require that excavations be performed in a manner and method that would not place employees at risk in case of an excavation cave-in. Further, these regulations require that all excavations 5 feet or greater in depth be sloped, sheeted, braced or shored to prevent the risk of a cave-in.

7.6 Drainage

Finish grades around structures and pavement should be established to promote quick run-off of surface water away from the structure in all directions. Drainage should be established and maintained both during construction and after completion of construction operations.

8.0 SHALLOW FOUNDATION

Provided proper site preparation is performed as outlined in Section 7.0, the proposed development with lightly loaded buildings could be supported on a shallow foundation system.

9.0 PAVEMENT

Driveway and parking areas may be constructed as part of this future development. The pavement sections at the site could consist of either an asphalt or concrete pavement system. Our recommendations related to design of the pavement are provided in the following sections.

9.1 Subgrade Preparation

Rough grading and preparation of subgrades in pavement area is typically completed relatively early in the construction process to allow access project sites. This could result unpaved subgrade areas being exposed to utility trenching or excavations, construction traffic, and prevailing weather conditions for prolonged periods during construction operations at other locations of the site. These factors individually or in combination could result disturbance of the pavement subgrade areas that may result in unstable conditions. Given this potential for disturbance, the pavement area subgrade should be carefully evaluated as outlined in **Section 7.2** at the time of pavement construction.

10.0 CONSTRUCTION OBSERVATION AND DOCUMENTATION

Successful project performance depends in part on the quality of construction. Observation and documentation of construction activities is a key component to ensure construction is completed in accordance with project documents. It is common for unforeseen/unanticipated site conditions to be encountered or develop during construction that were not discovered during site investigations. Site conditions encountered during construction should be compared to those observed during the site investigation to note any changed condition.

We recommend that a construction-monitoring program be performed by a qualified testing laboratory employed by the owner. The testing laboratory should be under the direct supervision of a registered professional engineer employed full time by the testing laboratory.

The construction monitoring program should include at a minimum; the observation of conditions subsequent to stripping and grubbing, the observation of proof rolling and any necessary mitigation, the observation and testing of placement of fill soils, verification of suitability of foundation bearing surfaces, verification that reinforcing steel is placed in accordance with project documents, the observation and testing of structural concrete, the observation and testing of structural mortar and grout if applicable, and the observation and testing of structural steel if applicable.

11.0 REPORT LIMITATIONS

The boring logs shown in this report contain information related to the types of soil encountered at specific locations and times and show lines delineating the interface between these materials, as well as results of tests performed in the laboratory on representative samples. The logs also contain our field representative's interpretation of conditions that are believed to exist in those depth intervals between the actual samples taken. Therefore, these boring logs contain both factual and interpretative information. It is not warranted that these logs are representative of subsurface conditions at other locations and times.

With regard to groundwater conditions, this report presents data on groundwater levels as they were observed during the course of the fieldwork. In particular, water level readings have been made in the borings at the times and under conditions stated in the text of the report and on the boring logs. It should be noted that fluctuations in the level of the groundwater table can occur with passage of time due to variations in rainfall, temperature and other environmental factors.

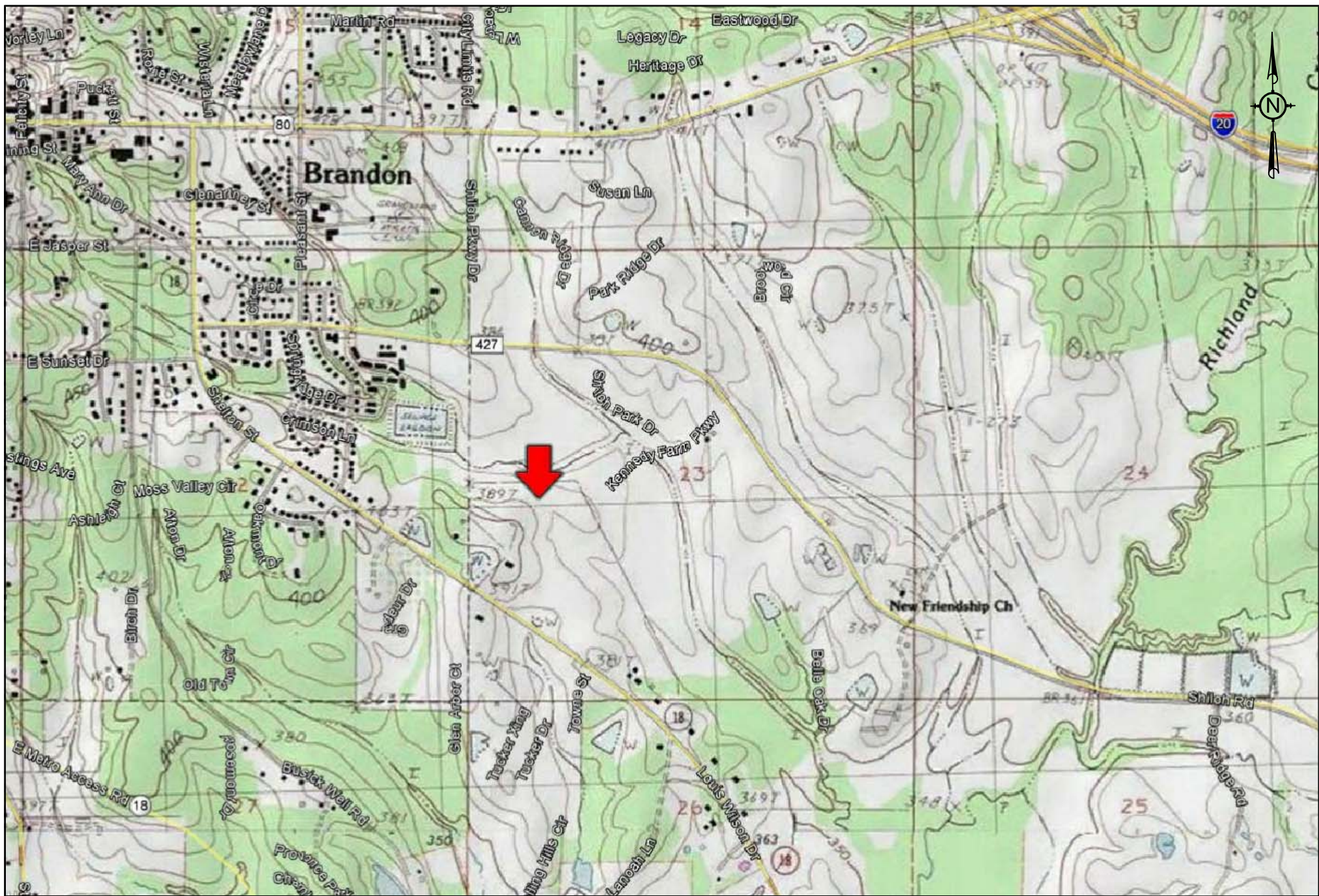
The near-surface soils encountered at this site are of a type that will soften significantly if the soil water content should be increased for any reason. Such increases in soil water content normally cause difficulties in proper soil compaction. Sources of increased water content in the surface soils could include, but are not limited to, rainwater, improper surface drainage during earthwork or site grading, and broken or leaking utility lines. It should be realized that the water content of the near-surface soils at the site could change between the time our report is submitted and construction is initiated at the site.

Unanticipated soil conditions at a construction site are commonly encountered and cannot be fully predicted by mere soil samples and test borings. Such unexpected conditions frequently require that additional expenditures be made by the owner to attain a properly designed and constructed project. Therefore, provisions for some construction contingency funds are recommended to accommodate such potential extra cost.

The analyses, conclusions and general recommendations contained in this report are based on site conditions as they existed at the time of our field investigation and further on the assumption that the exploratory borings are representative of the subsurface conditions throughout the site, that is, that the subsurface conditions everywhere are not significantly different from those disclosed by the borings at the time they were completed. If, during construction, different subsurface conditions from those encountered in our borings are observed, or appear to be present beneath excavations, we must be advised promptly so that we can review these conditions and reconsider our recommendations where necessary. If there is a lapse of time of more than one year between submission of this report and start of the work at the site, if conditions have changed due either to natural causes or to construction operations at or adjacent to the site, or if the structure location, loads or finish grades are changed, we urge that we be promptly informed, and retained to review our report to determine the applicability of the conclusions and recommendations, considering the changed conditions and/or time lapse.

Further, we request that our firm be retained to review those portions of the plans and specifications for this particular project that pertain to earthwork and foundations as a means to determine whether the plans and specifications are consistent with the recommendations contained in this report. In addition, we are available to observe construction, particularly the compaction of structural fill, the construction of foundations as recommended in this report, and such other field observations as might be necessary.

This report has been prepared for the exclusive use of the City of Brandon for specific application to design and construction of foundation elements for the proposed future development in Brandon, Mississippi. The only warranty made by us in connection with the services provided is that we have used that degree of care and skill ordinarily exercised under similar conditions by reputable members of our profession practicing in the same or similar locality. No other warranty, expressed or implied, is made or intended.



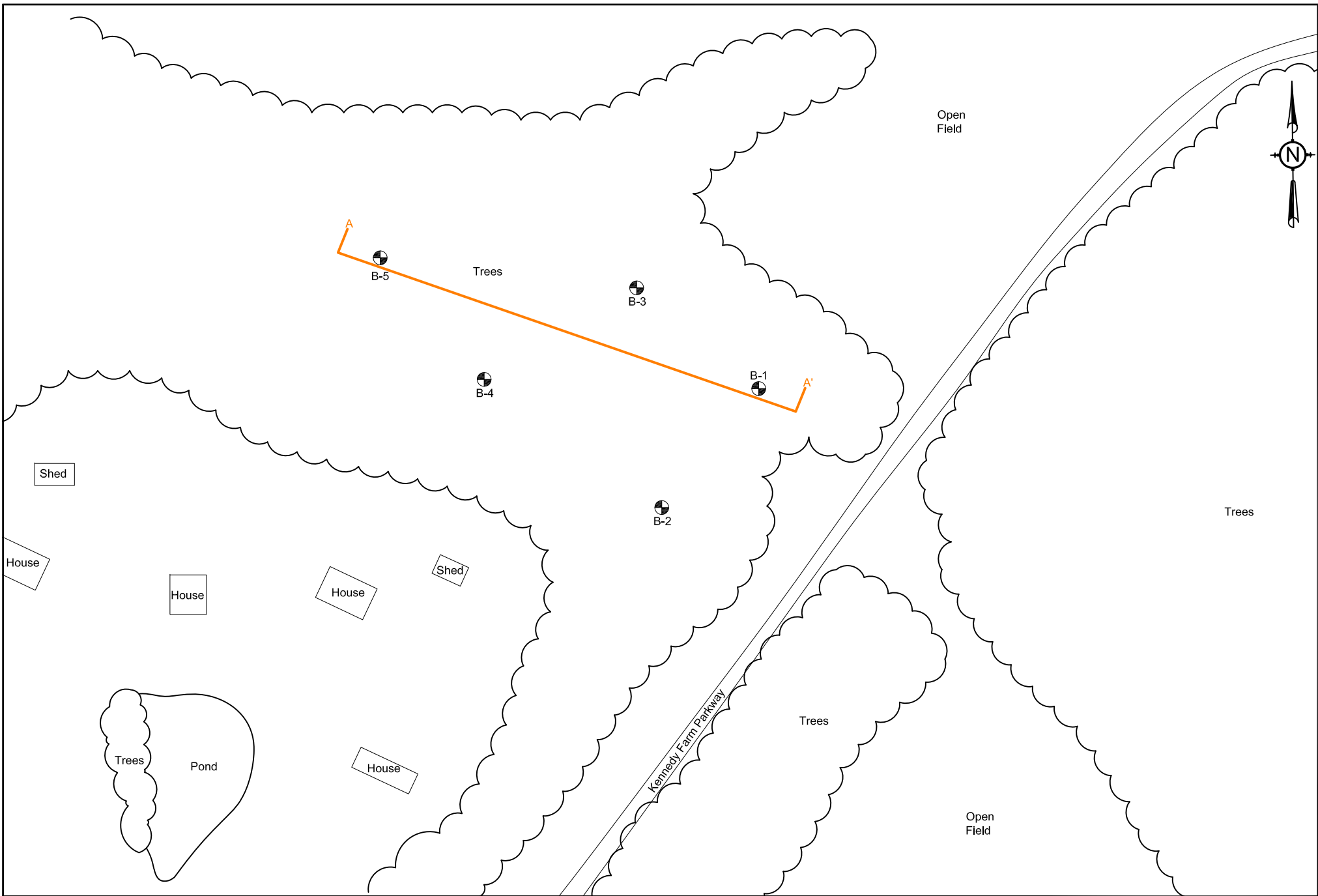
GEOTECHNICAL INVESTIGATION
KENNEDY FARM PARKWAY PROPERTY
BRANDON, MISSISSIPPI

Project No.: ST.02351.000.001



SITE LOCATION MAP

Drawn By:	A.P.W.	Date:	Scale:	FIGURE 1
Checked By:	M.K.V.	2/03/16	N.T.S.	



Legend

-  Soil Boring Location
-  Soil Profile A to A'

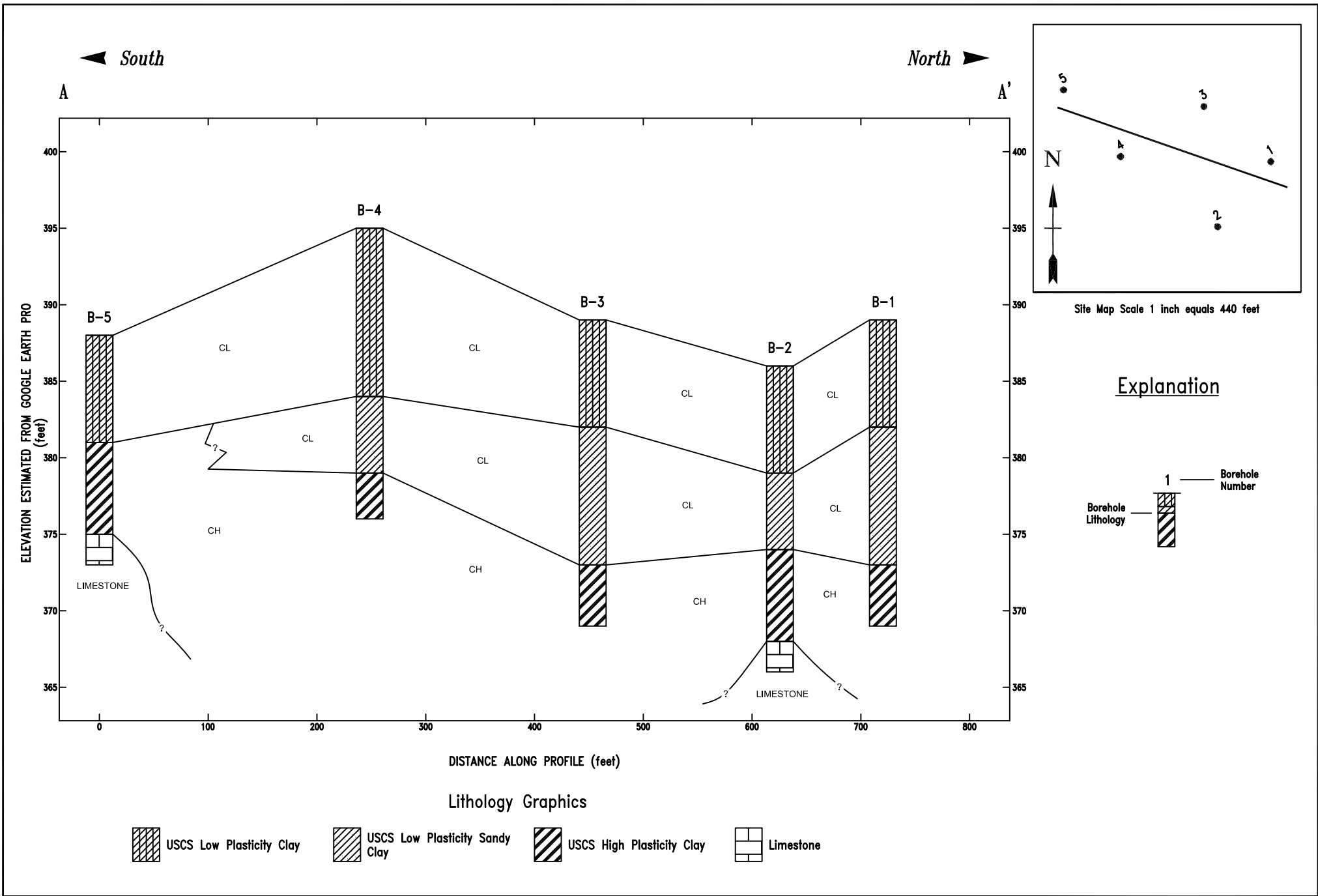
GEOTECHNICAL INVESTIGATION
KENNEDY FARM PARKWAY PROPERTY
BRANDON, MISSISSIPPI

Project No.: ST.02351.000.001



Drawn By:	A.P.W.	Date:	Scale:	FIGURE 2
Checked By:	M.K.V.	2/03/16	N.T.S.	

BORING LOCATION MAP



GEOTECHNICAL INVESTIGATION KENNEDY FARM PARKWAY PROPERTY BRANDON, MISSISSIPPI Project No.: ST.02351.000.001			SOILTECH CONSULTANTS, INC GEOTECHNICAL ENGINEERING		GENERALIZED SOIL PROFILE A to A'	
Drawn By:		A.P.W.	Date:	Scale:	FIGURE 3	
Checked By:		M.K.V.	2/03/16	As Shown		

A P P E N D I X A

Graphical Soil Boring Logs

Soil Classification Chart

Table 1 – Summary of Laboratory Data
Plasticity Results

SOIL BORING LOG

PROJECT: Geotechnical Investigation
Kennedy Farm Parkway Property
Brandon, Mississippi

No. B-1
SHEET 1 OF 1

PROJECT NO.: ST.02351.000.001
DATE: 1/28/16
DRILLER: J. Ray
TECHNICIAN: P. Ray
ENGINEER: M. Volk

CLIENT: City of Brandon
Brandon, Mississippi

Location: 32°15'38.26" -89°58'1.68"

LABORATORY DATA

Depth (ft)	Symbol	Samples	DESCRIPTION OF MATERIAL	Field Test Results	Undrained Shear Strength (ksf)	Moisture Content (%)	Unit Weight (pcf)		Plasticity Index	○ Cohesion / △ Triaxial (ksf)		% Passing No.
							Moist	Dry		PL	MC% LL	
			Surface Elevation: ~389 ft.									
-2			Medium tan and light gray silty clay (CL) - with ferrous stains		0.92	21	127.7	105.2	13			67.1
-4			- very stiff with fine sand below 3.5'		2.24	15	135.0	117.9				
-6												
-8			Stiff to very stiff tan and light gray sandy clay (CL) - with ferrous stains			17			28			
-10												
-12			- with sand pockets and seams below 12'									
-14						17			34			
-16												
-18			Very stiff tan and light gray clay (CH) - slickensided with ferrous stains									
-20						68			126			
-22												
-24												
-26												
-28												

Terminal Depth at 20.0 ft

Groundwater Observations
No groundwater encountered

Advancement Method
0 - 20 ft: Machine Auger

Abandonment Method
Boring backfilled with soil cuttings

Notes
Elevation estimated from Google Earth Pro

SoilTech Consultants

SOIL BORING LOG

PROJECT: Geotechnical Investigation
Kennedy Farm Parkway Property
Brandon, Mississippi

No. B-2
SHEET 1 OF 1

PROJECT NO.: ST.02351.000.001
DATE: 1/28/16
DRILLER: J. Ray
TECHNICIAN: P. Ray
ENGINEER: M. Volk

CLIENT: City of Brandon
Brandon, Mississippi

Location: 32°15'36.15" -89°58'3.72"

LABORATORY DATA

Depth (ft)	Symbol	Samples	DESCRIPTION OF MATERIAL	Field Test Results	Undrained Shear Strength (ksf)	Moisture Content (%)	Unit Weight (pcf)		Plasticity Index	○ Cohesion / △ Triaxial (ksf)	
							Moist	Dry		PL	MC% / LL
			Surface Elevation: ~386 ft.								
2			Stiff tan and light gray silty clay (CL) - with ferrous stains			18					
4											
6					1.46	18	133.9	113.0	16		
8			Stiff to very stiff tan and light gray sandy clay (CL) - with ferrous stains and nodules			19			32		
10											
12			Stiff tan and light gray clay (CH) - with sand pockets and ferrous stains - slickensided								
14					1.10	48	107.2	72.4	136		
16											
18			Limestone								
20											

Terminal Depth at 20.0 ft

Groundwater Observations

No groundwater encountered

Advancement Method

0 - 20 ft: Machine Auger

Abandonment Method

Boring backfilled with soil cuttings

Notes

Elevation estimated from Google Earth Pro

SoilTech Consultants

SOIL BORING LOG

PROJECT: Geotechnical Investigation
Kennedy Farm Parkway Property
Brandon, Mississippi

No. B-5
SHEET 1 OF 1

PROJECT NO.: ST.02351.000.001
DATE: 1/28/16
DRILLER: J. Ray
TECHNICIAN: P. Ray
ENGINEER: M. Volk

CLIENT: City of Brandon
Brandon, Mississippi

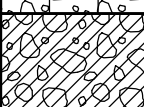
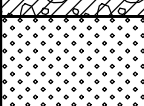
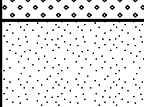
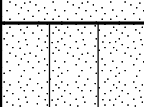
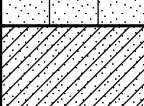
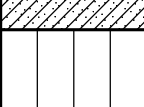
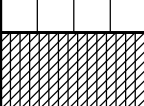
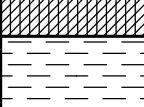
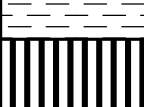
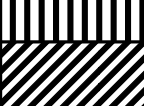
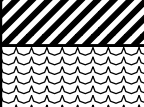
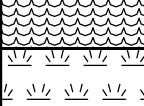
Location: 32°15'40.61" -89°58'9.60"

LABORATORY DATA

Depth (ft)	Symbol	Samples	DESCRIPTION OF MATERIAL	Field Test Results	Undrained Shear Strength (ksf)	Moisture Content (%)	Unit Weight (pcf)		Plasticity Index	Cohesion / Triaxial (ksf)	
							Moist	Dry		PL	LL
			Surface Elevation: ~388 ft.								
-2			Medium tan and light gray silty clay (CL) - with ferrous stains and nodules			19			20		
-4			- slightly sandy below 4'						26		
-6											
-8			Medium to stiff tan and light gray clay (CH) - slightly sandy with ferrous stains and nodules		0.86	35	119.4	88.6			
-10											
-12											
-14			Limestone								
-16			Refusal at 15' due to limestone Terminal Depth at 15.0 ft								
-18											
-20											
-22											
-24											
-26											
-28											

Groundwater Observations	Advancement Method	Notes Elevation estimated from Google Earth Pro
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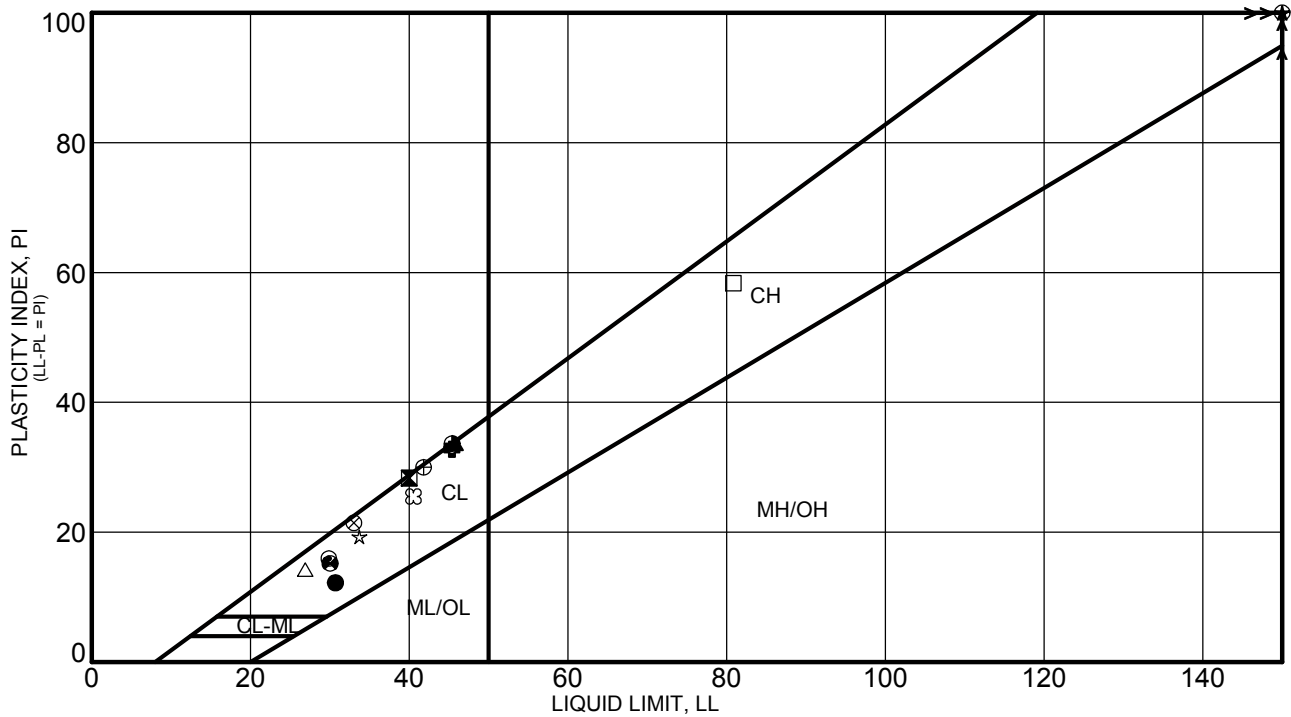
SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

Table 1
Summary of Laboratory Data

Stratum Number	I	II	III
Classification	Silty Clay (CL)	Sandy Clay (CL)	Clay (CH)
Shear Strength (ksf)			
Number of Tests	4	3	2
Maximum	2.24	1.91	1.10
Minimum	0.92	1.80	0.86
Average	1.62	1.86	0.98
Standard Deviation	0.57	0.05	0.17
Moisture Content (%)			
Number of Tests	9	6	4
Maximum	21.32	19.80	68.21
Minimum	14.53	13.67	34.70
Average	17.80	17.40	49.86
Standard Deviation	1.91	2.15	13.81
Dry Density (pcf)			
Number of Tests	4	3	2
Maximum	117.87	117.30	88.63
Minimum	105.24	109.41	72.39
Average	111.90	113.23	80.51
Standard Deviation	5.21	3.95	11.48
Liquid Limit, LL			
Number of Tests	6	6	3
Maximum	41.00	46.00	166.00
Minimum	27.00	33.00	81.00
Average	32.17	41.83	135.67
Standard Deviation	4.88	4.88	47.44
Plastic Limit, PL			
Number of Tests	6	6	3
Maximum	18.00	13.00	34.00
Minimum	13.00	12.00	22.00
Average	14.83	12.17	28.67
Standard Deviation	1.72	0.41	6.11
Plasticity Index, PI			
Number of Tests	6	6	3
Maximum	26.00	34.00	136.00
Minimum	13.00	21.00	59.00
Average	17.33	29.67	107.00
Standard Deviation	4.89	4.76	41.87
% Passing No. 200			
Number of Tests	0	1	0
Maximum	NA	67.15	NA
Minimum	NA	67.15	NA
Average	NA	67.15	NA
Standard Deviation	NA	NA	NA



	BORING NUMBER	SAMPLE DEPTH	LL	PL	PI	Classification
●	1	1.0	31	18	13	Tan and light gray silty clay
⊗	1	8.0	40	12	28	Tan and light gray sandy clay
▲	1	13.0	46	12	34	Tan and light gray sandy clay
★	1	18.0	160	34	126	Tan and light gray clay
⊙	2	4.0	30	14	16	Tan and light gray silty clay
⊕	2	8.0	45	13	32	Tan and light gray sandy clay
○	2	13.0	166	30	136	Tan and light gray clay
△	3	4.0	27	13	14	Tan and light gray silty clay
⊗	3	8.0	33	12	21	Tan and light gray sandy clay
⊕	3	13.0	42	12	30	Tan and light gray sandy clay
□	3	18.0	81	22	59	Tan and light gray clay
⊗	4	4.0	30	15	15	Tan and light gray silty clay
⊕	4	13.0	45	12	33	Tan and light gray sandy clay
★	5	1.0	34	14	20	Tan and light gray silty clay
⊗	5	4.0	41	15	26	

See Soil Boring Logs for detailed material descriptions.

SoilTech Consultants, Inc.

101 Business Park Drive, Suite A
Ridgeland, Mississippi 39157
(601)952-2995/(601)952-2944 fax

ATTERBERG LIMITS RESULTS

Project Name: Kennedy Farm Parkway Property
Location: Brandon, Mississippi
Number: ST.02351.000.001

Civil Appendix C – Synthetic Turf Specifications

SYNTHETIC TURF SPECIFICATIONS

PART 1 – GENERAL

1.1 SUMMARY

The Contractor shall furnish all labor, materials, tools and equipment necessary to install, in place, a monofilament synthetic turf material as indicated on the plans and as specified herein. The installation of all new materials shall be performed in strict accordance with the Manufacturer's written installation instructions, and in accordance with all approved shop drawings. The contractor shall install one of the following products in complete accordance with the manufacturer's installation instructions and/or as modified by the Engineer:

Hellas Construction, Inc.

Model: Matrix Turf 46

Local Contact: Amy Champion

12710 Research Boulevard

Austin, TX 78759

USA

Tel: 504-579-6300

Email: achampion@hellasconstruction.com

Field Turf International, Inc.

Model: Field Turf Revolution 360

Local Contact: Josh Keown

175 N Industrial Blvd N.E.

Calhoun, Georgia 30701

USA

Tel: 404-556-8265

Email: josh.keown@fieldturf.com

Or approved equal. Any product differing from the aforementioned shall be submitted to the Engineer a minimum of *seven days* prior to the opening of bids for approval and shall meet the requirements as outlined in the following specifications under 2.0 Products – Alternate Submittals. Alternate turf systems will not be accepted after *seven days* prior to the opening of bids.

In addition, it is important to note that a 50/50 rubber sand ratio for the infill is required for this project and should be reflected in the bid. This modification shall not change in any way, the requirements set for in the warranty of this product.

1.2 SCOPE OF WORK

The selected turf system shall meet the following minimum requirements:

A. Prior to order of materials, the Synthetic Turf Contractor shall submit the following:

1. Product and Material data, including Independent Test Lab Results,
2. Installation details,
3. Sample Warranty,
4. Field layout and striping plans,

5. Details of construction, especially any details that may deviate from plans and specifications.
- B. Prior to the beginning of installation, the Manufacturer/Installer of the synthetic turf shall inspect the base and supply a Certificate of Base Acceptance for the purpose of obtaining Manufacturer's warranty for the finished synthetic playing surface.
- C. Prior to Final Acceptance, the Contractor shall submit to the Owner three (3) copies of Executed Warranty Documents and Maintenance Manuals, which will include necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including, but not limited to, painting and cleaning.

1.3 SHOP DRAWINGS

- A. Shop drawings shall be prepared in accordance with construction documents and drawings and contain all pertinent information regarding installation. These drawings shall be submitted to the Engineer and Owner for approval prior to the manufacturing and shipment of materials.
- B. Submit drawings for:
 1. Installation details: edge detail, goal post detail, other inserts and covers, etc.
 2. Striping plan; layouts showing any field lines, markings and boundaries, and field logos per project drawings.

1.4 QUALITY ASSURANCE

- A. Synthetic Turf Manufacturer/Installer's Experience:
 1. The Synthetic Turf Manufacturer/Installer shall have the experience of at least twenty-five (25) acceptable installations of full-size soccer fields or football (minimum 70,000 sq. ft.) in the United States or Internationally within the past three (3) years of tufted, polyethylene, grass-like fabrics that are filled with a base course of sand and a play zone of granulate, ambient SBR rubber or approved equal. Submit a list of all applicable installations with the bid.
 2. The Synthetic Turf Manufacturer/Installer shall have the experience of at least two (2) acceptable installations of the specific system specified. This includes monofilament polyethylene fiber, sand and rubber infill system. A list of all applicable installations is to be submitted with the bid.
 3. No slit film, monofilament tape or "monofilament-like" fibers will be accepted. This specification is for a true, single strand, exuded monofilament fiber.
 4. The turf manufacturer must extrude the monofilament fiber used in the turf system, or specify in writing, to be included with the bid, the source of the turf system. Failure to submit this with the bid may be considered grounds for bid rejection.
 5. The Turf Contractor shall employ only qualified, experienced supervisors and technicians skilled in the installation of this system. The Project Superintendent shall have a minimum of five years experience and 10 systems over the last 3 years.
- C. The secondary backing of latex or urethane shall be applied to the Primary Backing.

- D. The backing shall be coated with holes perforated through the backing at the Synthetic Turf Manufacturer's recommended interval or shall contain non-coated, permeable 'drainage valleys' to allow for drainage. Perforations must be performed by turf manufacturer. Test results for permeability must be submitted and approved by the Engineer.
- E. Warranty: The Contractor shall submit its Manufacturer's Warranty, which guarantees the usability and playability of the synthetic turf system for its intended uses for an eight (8) year period commencing with the date of Substantial Completion.
 - 1. The warranty must be submitted prior to ordering materials for review and approval by the Township Solicitor and the Project Engineer and shall have the following general characteristics OR as deemed acceptable by the Township:
 - a) Must provide a pre-paid full-field coverage for eight (8) years from the date of final payment,
 - b) Must warrant materials and workmanship,
 - c) Must warrant that the materials installed meet or exceed the product specifications,
 - d) Must have a provision to either repair or replace such portions of the installed materials that are no longer serviceable to maintain a serviceable and playable surface,
 - e) Must not be limited to the amount of annual usage, hours of use and must not exclude heavily trafficked areas.
 - f) Must be backed by American company if turf manufacturer is outside of USA.
 - g) Warranty shall include general wear and damage caused from UV degradation. The warranty shall specifically exclude vandalism, and acts of God beyond the control of the Owner or the manufacturer. The Contractor shall provide a warranty to the Owner that covers defects in the installation workmanship, and further warrant that the installation was done in accordance with both the manufacturer's recommendations and any written directives of the manufacturer's representative. Minimum threshold of warranty shall reflect no maximum per warranty.
 - h) Insurance is provided by a third party insurer with an A.M. Best Financial strength rating of "Excellent" or higher.
 - i) Insurance coverage offers a minimum claim limit of (US) \$300,000 per field.
 - j) Insurance coverage shall specifically provide for reimbursement to the warranty holder in the even of a bankruptcy of the synthetic turf provider.

1.5 EXISTING CONDITIONS

- A. Prior to installation, the installer of the synthetic turf shall inspect the base. The installer will accept the base, when the general contractor provides tests results for compaction, planarity and permeability in writing that are in compliance with the synthetic turf manufacturer's recommendations. The installer shall have the dimensions of the field and locations for markings measured by a Licensed Surveyor to verify conformity to the specifications and applicable standards. A total of six (6) tests of permeability shall be performed on the base spaced uniformly across the field as directed by the Engineer in accordance with ASTM testing standards. A record of the finished field as-built shall be submitted to the Owner. The installer of the synthetic turf will be responsible for any damage to the base during removal/ installation of the synthetic turf system.
- B. Infield dirt mix backfill (if applicable) within the contiguous synthetic turf limits or immediately adjacent thereto are not to be installed by the Owner or Contractor until after the new synthetic turf system has been completed.

1.5 **SCHEDULE**

- A. The Synthetic Turf Contractor shall complete all work on the synthetic turf system in accordance with the published project schedule.
- B. The Synthetic Turf Contractor will receive unencumbered use of an area within the proximity of the synthetic turf area(s) being installed in order to complete his work. The Synthetic Turf Contractor shall also be afforded unencumbered access through the construction site to reach the synthetic turf field area being installed.

1.6 **SURFACE AREA**

The Synthetic Turf Contractor is to verify all measurements with the Engineer.

1.7 **UTILITIES**

The General Contractor will supply necessary water, adequate lighting and electricity for installation.

PART 2 – PRODUCTS

2.1 **ALTERNATE SUBMITTAL DATA**

Bidders wishing to use products by manufacturers other than the specified must submit documentation demonstrating that the proposed product meets the physical characteristics as defined in this section, +/- 5%.

2.1 **MATERIALS**

- A. Shall be tufted, single strand monofilament polyethylene, grass-like fabric coated with a secondary backing of high-grade latex or urethane. The fibers shall be tufted to a finished pile height of a minimum of 2.0 in.
- B. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified should be able to withstand full climatic exposure in all climates; be resistant to insect infestation, rot, fungus and mildew; to ultra-violet light and heat degradation; and shall have the basic characteristic of flow-through drainage, allowing free movement of surface runoff through the synthetic turf fabric where such water may flow to the existing base and into the field drainage system.
- C. The finished playing surface shall appear as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use. The system shall be suitable for baseball use.
- D. The single strand, monofilament polyethylene shall be a proven athletic caliber yarn designed specifically for outdoor use and stabilized to resist the effect of ultraviolet degradation, heat, foot traffic, water and airborne pollutants.

- E. The product should have the following physical characteristics ($\pm 5\%$) as tested according to ASTM F1551 Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials. Bidders wishing to use an alternate to the specified manufacturer shall submit shop drawings, cut sheets and/or test results demonstrating that the product possesses the following characteristics. These must be submitted with the bid. Failure to submit these items *seven days* prior to the bid opening and with the bid will be grounds for rejection.
1. GMAX – <125 G's at installation, <185 G's for life of the warranty
 2. Breaking strength fabric – length 260 lbs/force, 250 width lbs/force
 3. Tuft bind – 6 lbs/force
 4. Pile height – 2.0 in.
 5. Pile weight – 38 oz./sq. yd minimum.
 6. Primary weight – 7 oz./sq. yd minimum.
 7. Secondary weight – 20 oz./sq. yd minimum.
 8. Total weight – 65 oz./sq. yd minimum.
 9. Fabric width – 15 ft minimum
 10. Gauge – $\frac{3}{4}$ " maximum
 11. Melt point - 125°C polyethylene
 12. Ribbon denier – 9,000
 13. Water permeability – >40 inches/hour
- F. ***The synthetic turf fabric shall be filled with 50% rubber and 50% sand (by weight).***
- G. Perimeter edge details, underground storm sewer piping and connections required for the system shall be as detailed and recommended by the Engineer, and as approved by the Owner.
- H. The Owner reserves the rights to accept variances from listed minimum requirements, provided that a request for a variance is provided in writing to be submitted with the bid and is approved by the Engineer.

PART 3 – EXECUTION

3.1 GENERAL

- A. The installation shall be performed in full compliance with approved shop drawings.
- B. Only factory-trained technicians skilled in the installation of athletic caliber synthetic turf systems shall undertake the placement of the system.
- C. The surface to receive the synthetic turf shall be inspected and certified by the Synthetic Turf Contractor as ready for the installation of the synthetic turf system and must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.

3.1 INSTALLATION

- A. The completed base and adjacent curbs/perimeter nailer shall be inspected by the Engineer to verify proper installation. The Contractor shall provide a topographic survey performed by means of a laser and plotted on a 25-foot grid. Based upon the Engineer's inspection of the topographical survey, the Contractor shall fine grade the base suitably, including properly rolling and compacting the base to achieve a surface planarity within 1/4 in. in 10-

feet (+0, -1/4 in.). The Owner, engineer or prime contractor shall not approve the base for tolerance to grade without obtaining the topographical survey.

- B. Subgrade and base shall be uniformly compacted to a minimum of 95% of maximum dry density. Care must be exercised to minimize segregation. The General Contractor shall make written records available to the Engineer and Synthetic Turf Contractor's inspector for both planarity and compaction as obtained from a minimum 25 ft x 25 ft grid. All tests shall be performed in conjunction with ASTM standards.
- C. The Synthetic Turf Project Superintendent shall thoroughly inspect all materials delivered to the site both for quality and quantity to assure that the entire installation shall have sufficient material to maintain proper infill mixing ratios.
- D. Synthetic turf shall be loose-laid across the field, stretched and attached to the perimeter edge detail. Synthetic Turf shall be of sufficient length to permit full cross-field installation. No head or cross seams will be allowed except as needed for inlaid fabric striping or to accommodate programmed cut-outs.
- E. All seams shall be flat, tight and permanent with no separation or fraying. Field shall be installed as per manufacturer's recommendations provided it be with one of the following methods:

Glued Seam

Field seams to be glued with adhesive supplied by synthetic turf manufacturer/extruder. Adhesives other than those supplied by the manufacturer must be compatible with the turf system and supplier must furnish a warranty to owner for seam integrity. Field seams will also be glued (if applicable) to seaming tape. Seaming tape is to be constructed of high tenacity polyurethane coated, woven nylon. Inlaid markings shall be adhered to seaming tape with a two-part, high strength polyurethane adhesive applied per the Synthetic Turf Manufacturer's standard procedures for outdoor applications. All main fabric seams shall be transverse to the field direction; i.e., run perpendicularly across the field.

or

Sewn Seam

All seams that are to be sewn, shall be sewn using double bagger stitches and polyester thread or adhered using seaming tape and high grade adhesive (per the manufacturer's standard procedures). Seams shall be flat, tight and permanent with no separation or fraying.

- F. Infill materials shall be properly applied in numerous lifts using special broadcasting equipment to produce a system of recycled ambient SBR rubber particles and fine silica sand or approved equal. The use of cryogenic rubber or another approved equal is permitted. The synthetic turf shall be raked and brushed properly as the mixture is applied. The infill material shall be installed to a settled depth of 2 inches. The infill materials can only be applied when the synthetic turf fabric is dry.
- G. G-Max Testing: The Synthetic Turf Manufacturer shall retain a third party certified testing laboratory and shall perform G-Max testing during the first year of the life of the Guarantee:

Testing shall be performed at the center of the field, at the goal locations for all sports and at 10 yards inside the corners, approximately 13 total tests. The testing shall be performed between 90 and 120 days after substantial completion.

Testing shall consist of shock attenuation per ASTM F-355 procedure A

G-Max shall not change more than 5% at any one location per year and shall never exceed 150 over the life of the warranted period. If the results are above the specified values, the Turf manufacturer shall remediate the problem and provide adequate information to confirm mitigation measures were effective.

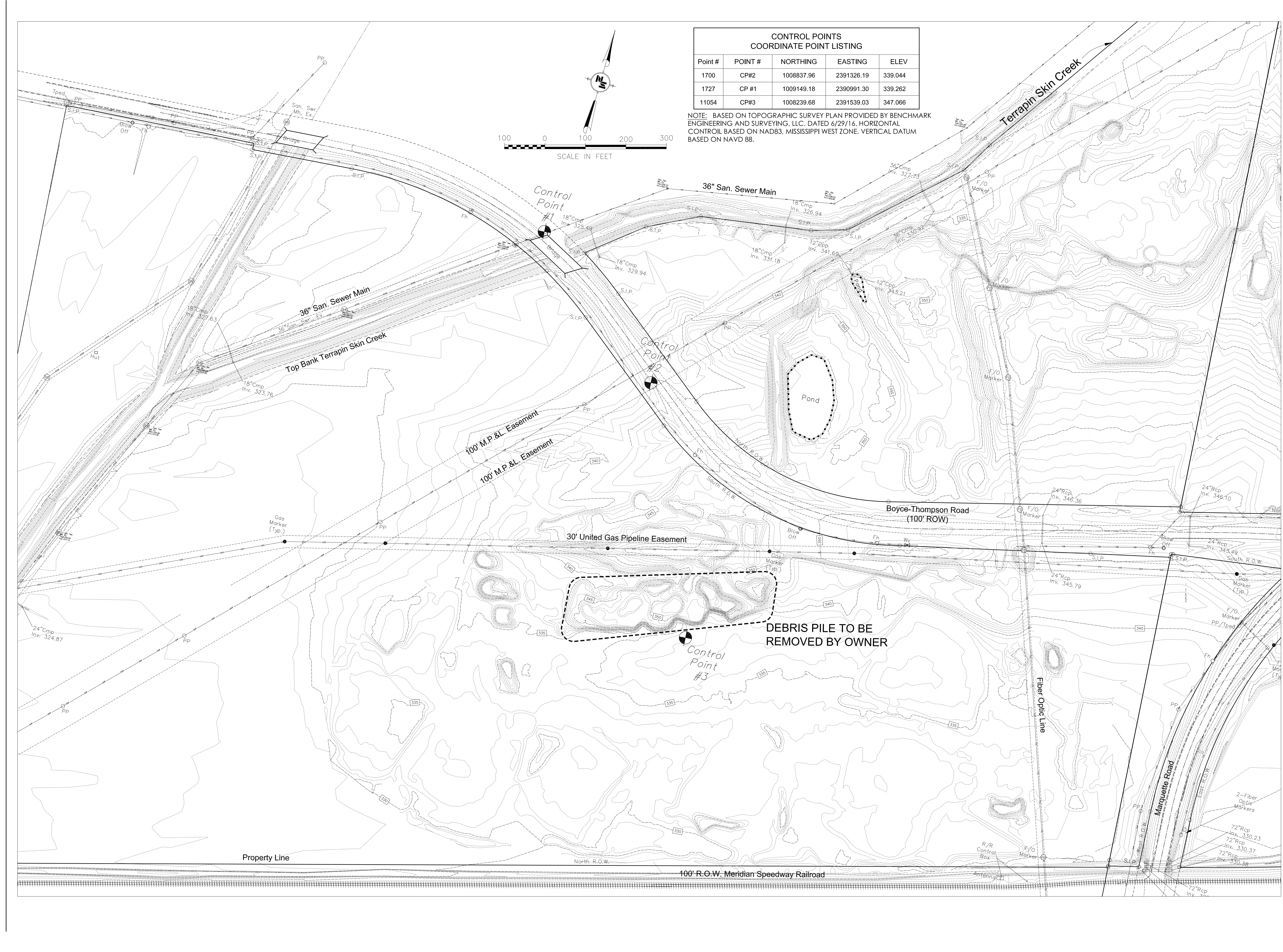
The testing shall be performed by a certified independent lab and paid for by the Turf Manufacturer.

3.1 FIELD MARKINGS AND DECORATIONS

Field markings and decorations shall be installed in accordance with the construction drawings and approved project shop drawings. The striping plan located in the plans is diagrammatic in nature. The Synthetic Turf Contractor shall submit a shop drawing for approval prior to ordering materials. The striping plan itself should be followed for color coordination and all field lines should be designed in accordance with Little League standards.

3.1 CLEAN UP

- A. Synthetic Turf Contractor shall provide the labor, supplies and equipment for final cleaning of surfaces and installed items.
- B. All usable remnants of new material shall become the property of the Owner.
- C. The Synthetic Turf Contractor shall keep the area clean throughout the project and clear of debris.
- D. Surfaces, recesses, enclosures, etc., shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.
- E. The Contractor shall leave 2 tons of excess rubber infill material at a location on site as designated by the Engineer.



CONTROL POINTS COORDINATE POINT LISTING				
Point #	POINT #	NORTHING	EASTING	ELEV
1700	CP#2	1008837.96	2391326.19	339.044
1727	CP #1	1009149.18	2390991.30	339.262
11054	CP#3	1008239.68	2391539.03	347.066

NOTE: BASED ON TOPOGRAPHIC SURVEY PLAN PROVIDED BY BENCHMARK
ENGINEERING AND SURVEYING, LLC. DATED 6/29/16. HORIZONTAL
CONTROL BASED ON NAD83, MISSISSIPPI WEST ZONE. VERTICAL DATUM
BASED ON NAVD 88.

WIER BOERNER ALLIN
ARCHITECTURE

2906 N.STATE STREET, SUITE 106
JACKSON, MISSISSIPPI 39216

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Solutions you can build upon

125 S. CONGRESS ST, SUITE 1100
JACKSON, MISSISSIPPI 39201

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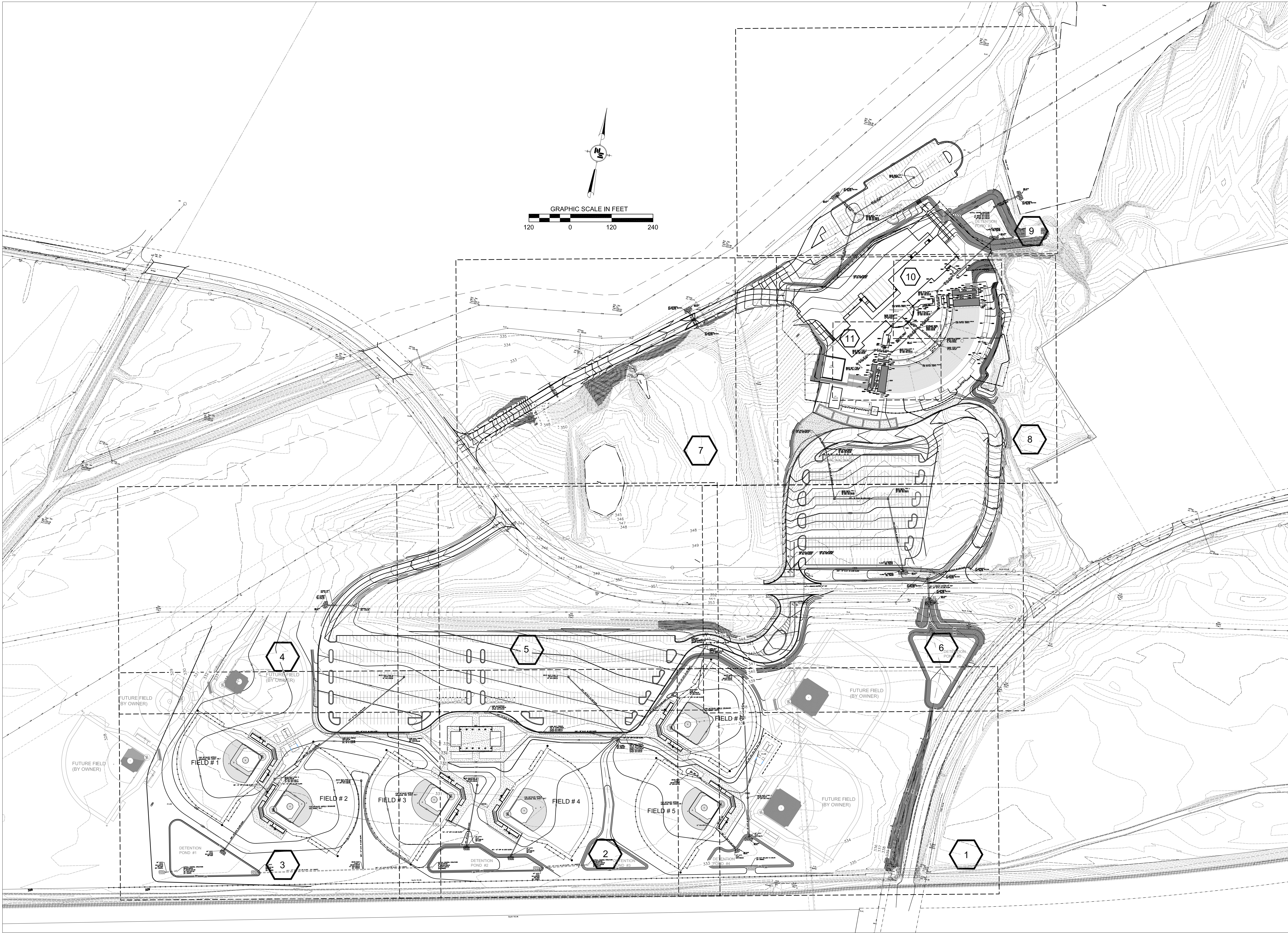
RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016		
CONSTRUCTION DOCUMENTS		
WBA #:		
2215/2315		
NSI #:		
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C0.4
Existing
Conditions



WIER BOERNER ALLIN
ARCHITECTURE

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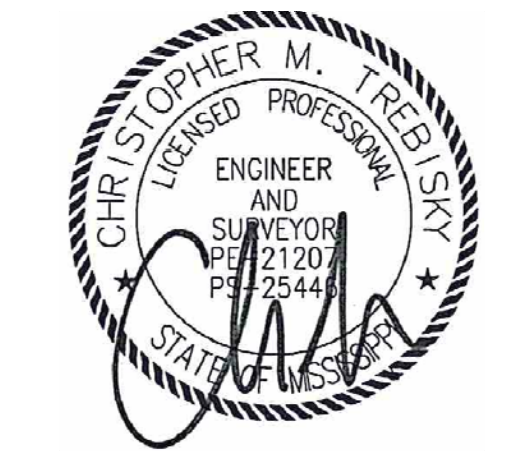
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AMPHITHEATER &
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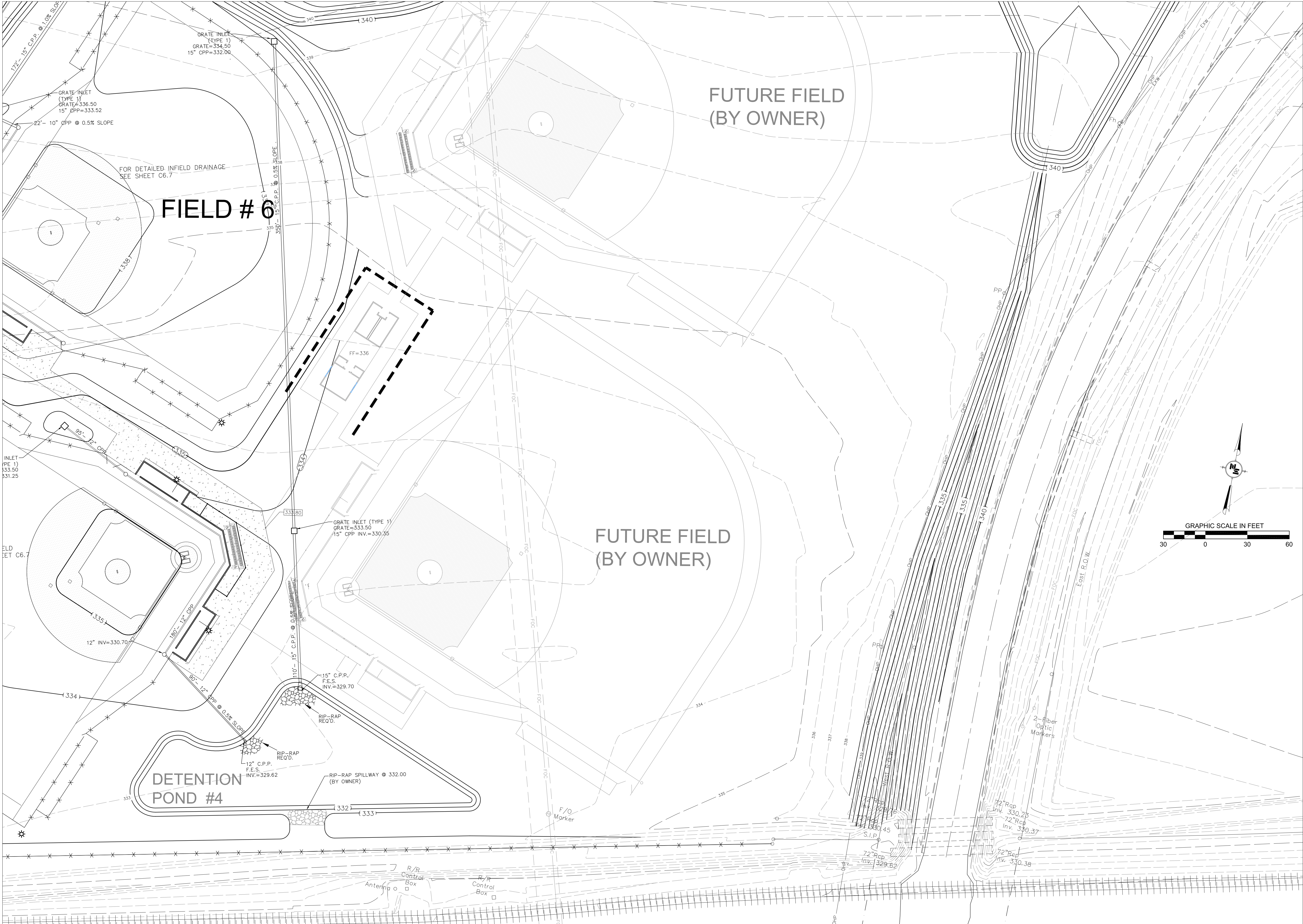
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1	Addendum No. 1	July 8, 2016
2	Addendum No. 2	July 15, 2016

C1.0
Grading and
Drainage Plan

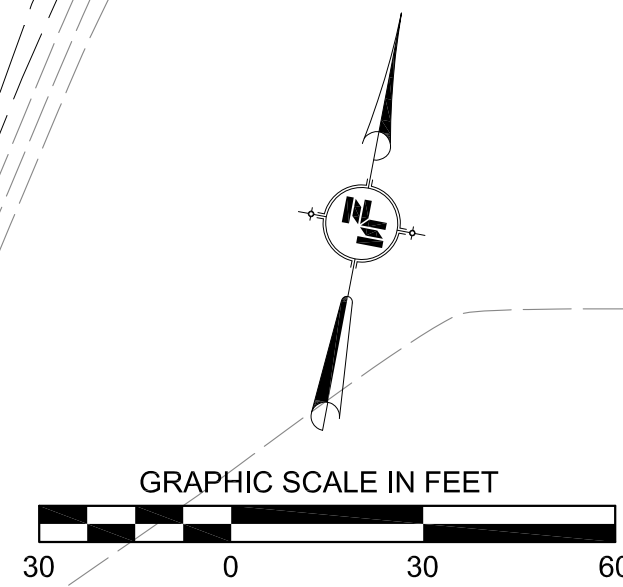


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AMPHITHEATER &
BASEBALL PARK

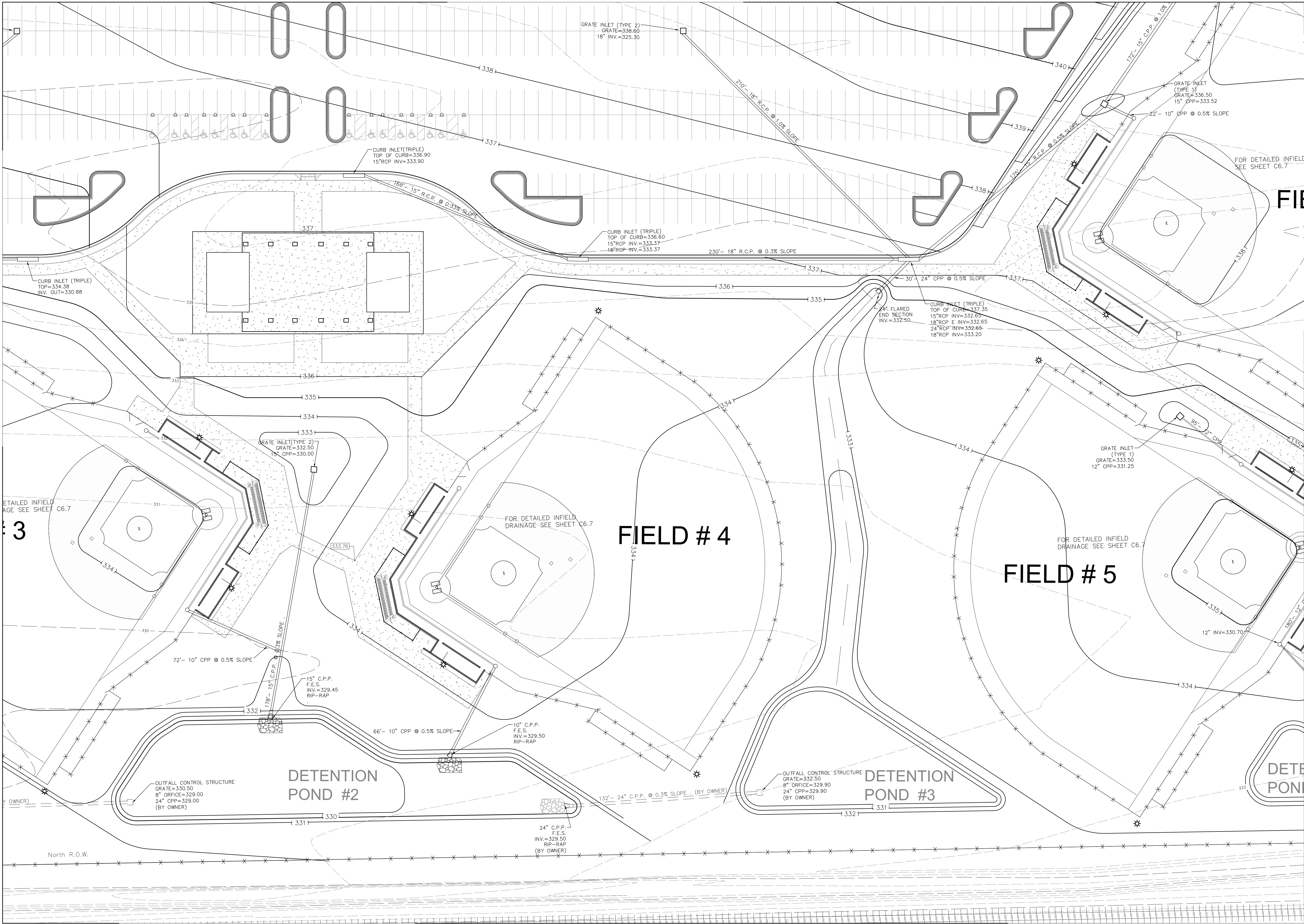
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BRANDON, MISSISSIPPI

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- GRATE INLET
- CURB INLET
- PIPE



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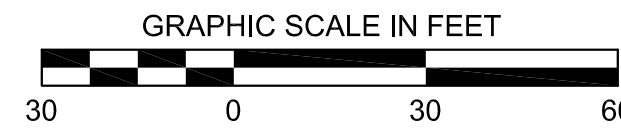
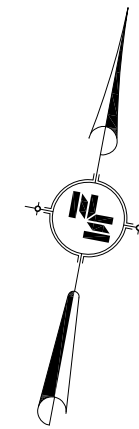
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**RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK**

CITY OF BRANDON
BRANDON, MISSISSIPPI



LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- SPOT ELEVATION
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- GRATE INLET
- CURB INLET
- PIPE



17 JUNE 2016

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DOCUMENTS

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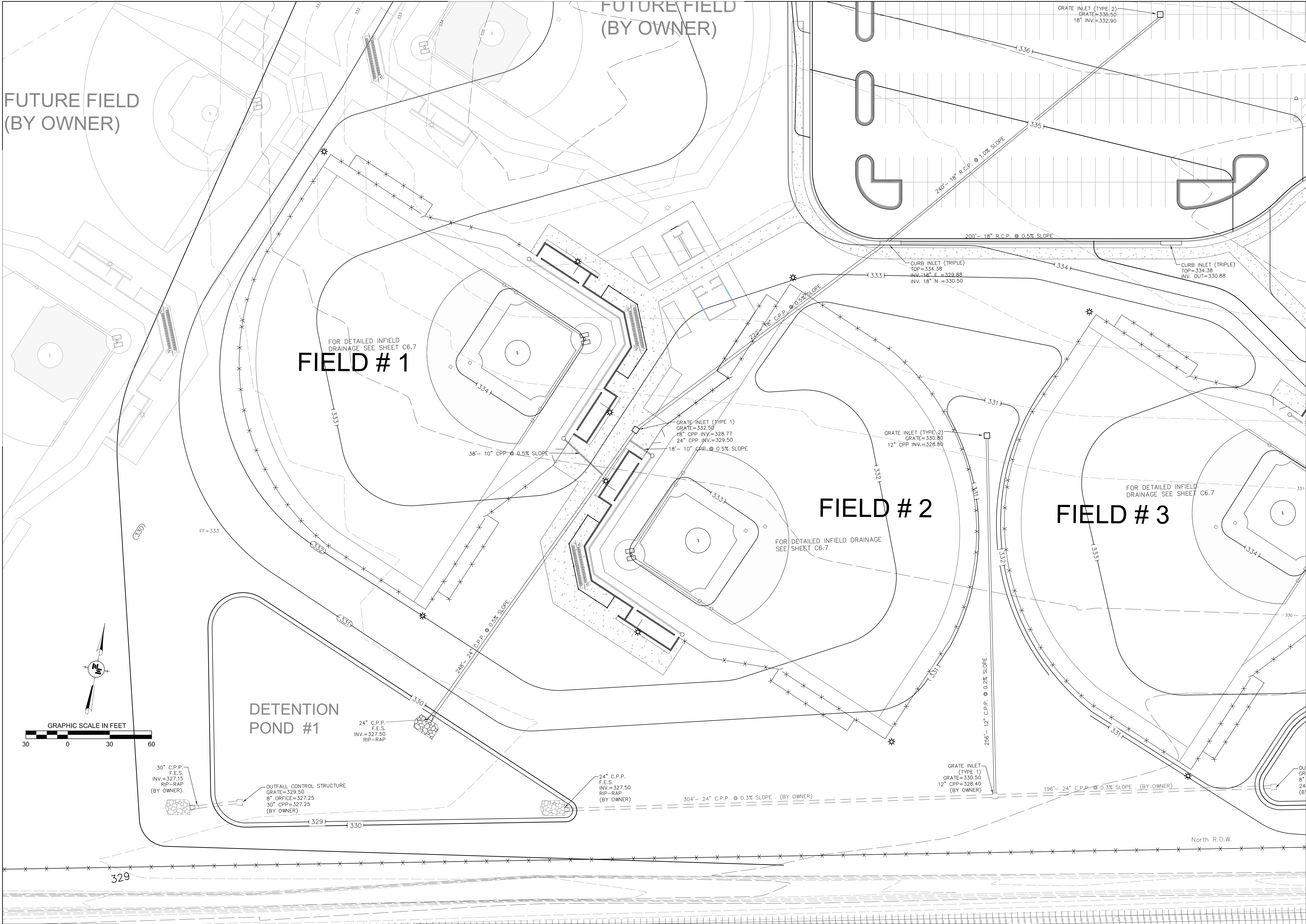
REVISIONS

NO.	DESCRIPTION	DATE
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2	Addendum No. 2	July 15, 2016
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C1.2

Grading and
Drainage Plan

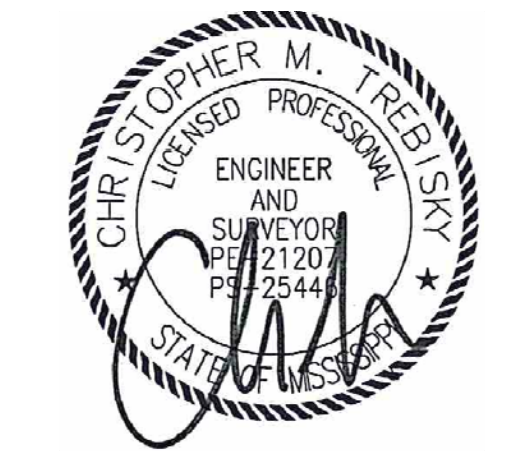


**RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK**

CITY OF BRANDON
BRANDON, MISSISSIPPI

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- SPOT ELEVATION
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- PIPE



17 JUNE 2016		
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RANKIN TRAILS
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17 JUNE 2016

CONSTRUCTION
DOCUMENTS

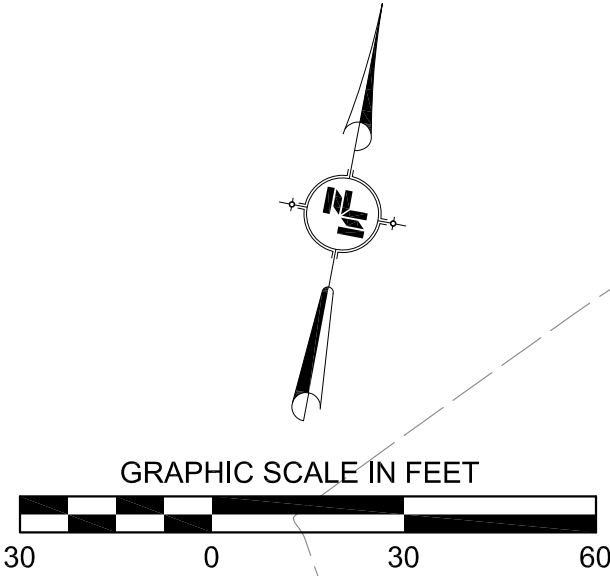
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NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016

C1.4

Grading and
Drainage Plan



FUTURE FIELD
(BY OWNER)

FUTURE FIELD
(BY OWNER)

EXTEND 24"
RCP 20 L.F.
24" FLARED
END SECTION
INV.=334.75

RIP-RAP
REQ'D.

EXISTING F.E.S.
INV. =335.98

GRATE INLET (TYPE 2)
GRATE=336.50
18" INV.=332.90

10% SLOPE

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON

BRANDON, MISSISSIPPI

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- GRATE INLET
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- PIPE



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

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2215/2315

NSI #:

12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
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2 Addendum No. 2 July 15, 2016

C1.5

Grading and
Drainage Plan



RANKIN TRAILS AMPHITHEATER & BASEBALL PARK

CITY OF BRANDON

RANDON, MISSISSIPPI

LEGEND

- 
 EXISTING CONTOUR MAJOR
 EXISTING CONTOUR MINOR
 PROPOSED CONTOUR MAJOR
 PROPOSED CONTOUR MINOR
 SPOT ELEVATION
 TOP OF WALL SPOT
 ELEVATION
 GRATE INLET
 CURB INLET
 PIPE



7 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:

NSI #:

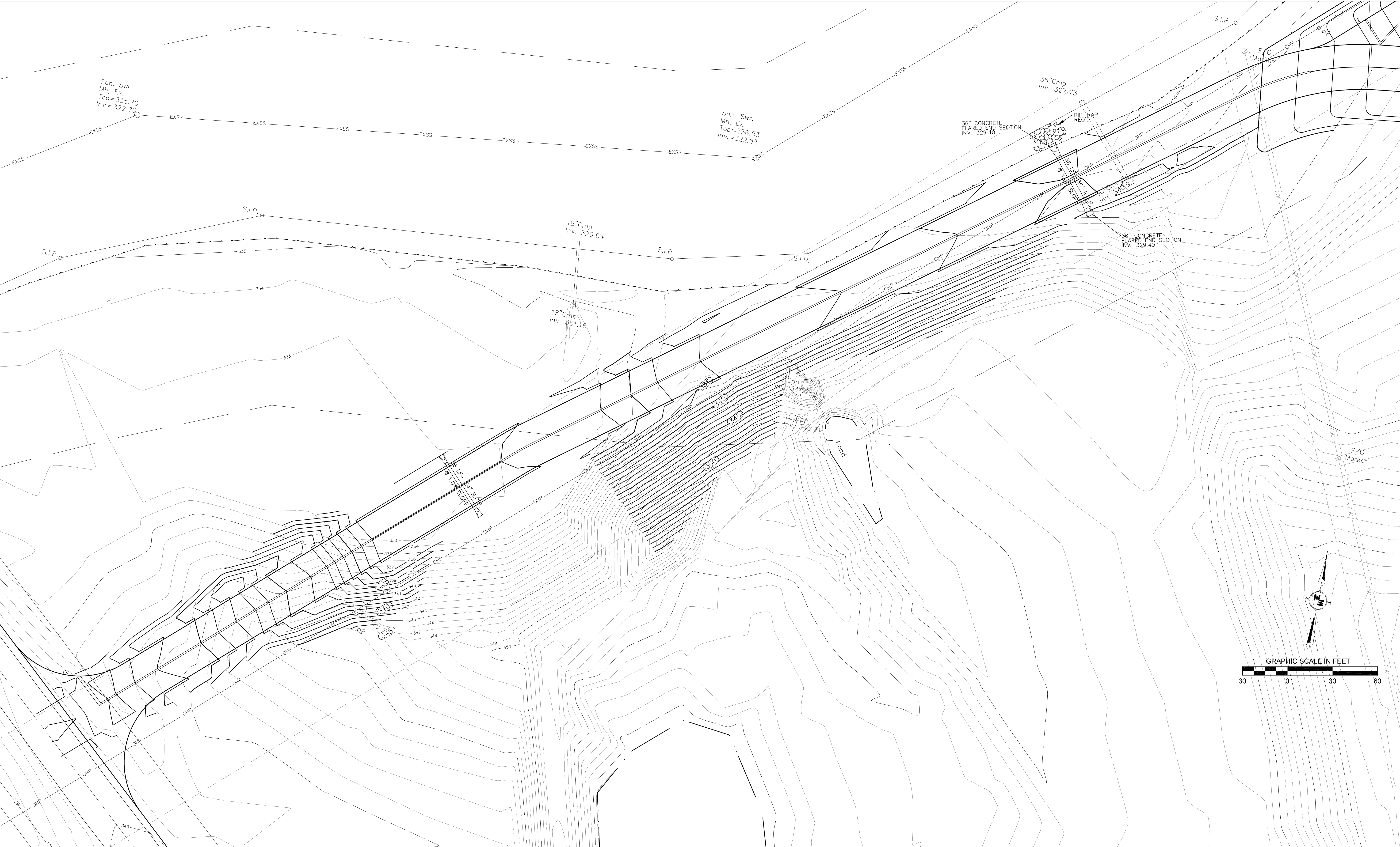
2779/12780

REVISIONS

NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016

C1.6

Grading and Drainage Plan



RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- GRATE INLET
- CURB INLET
- PIPE



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:
2215/2315

NSI #:
12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
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2 Addendum No. 2 July 15, 2016

C1.7

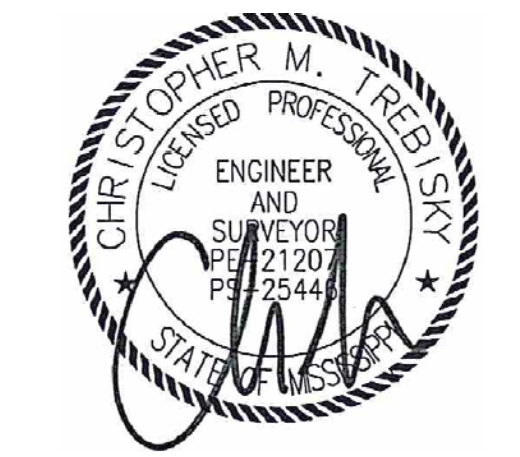
Grading and
Drainage Plan

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- GRATE INLET
- CURB INLET
- PIPE



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:

2215/2315

NSI #:

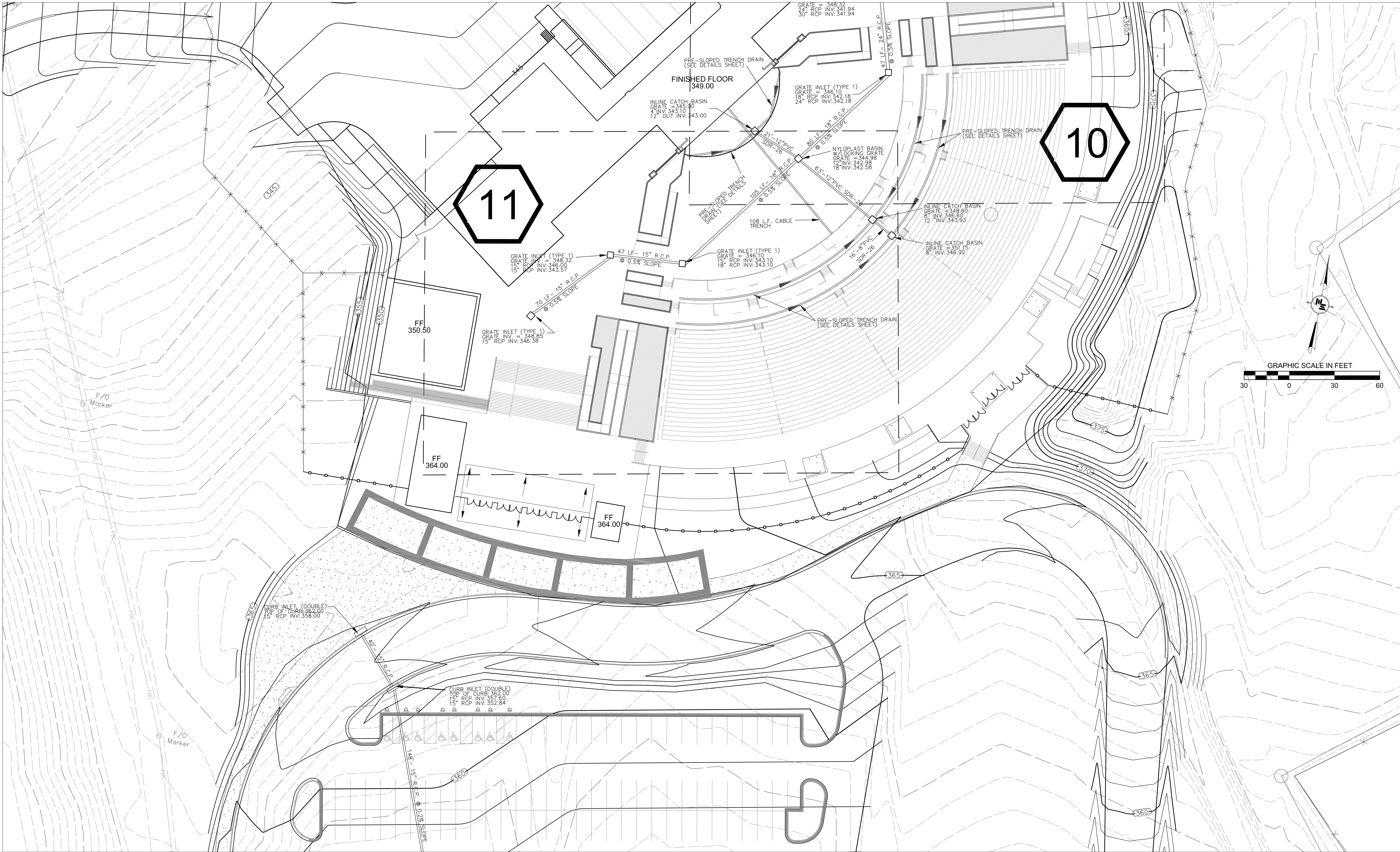
12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum No. 1	July 8, 2016
2	Addendum No. 2	July 15, 2016

C1.8

Grading and
Drainage Plan

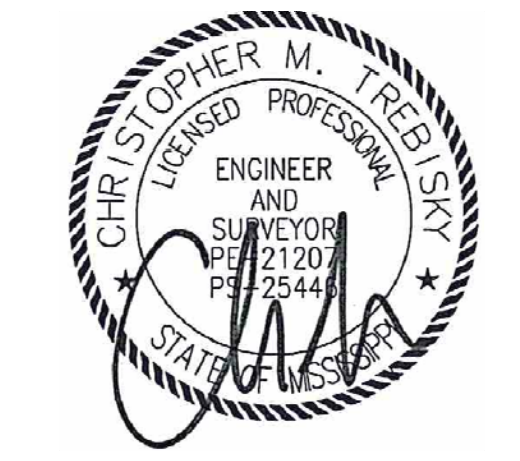


RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI

LEGEND

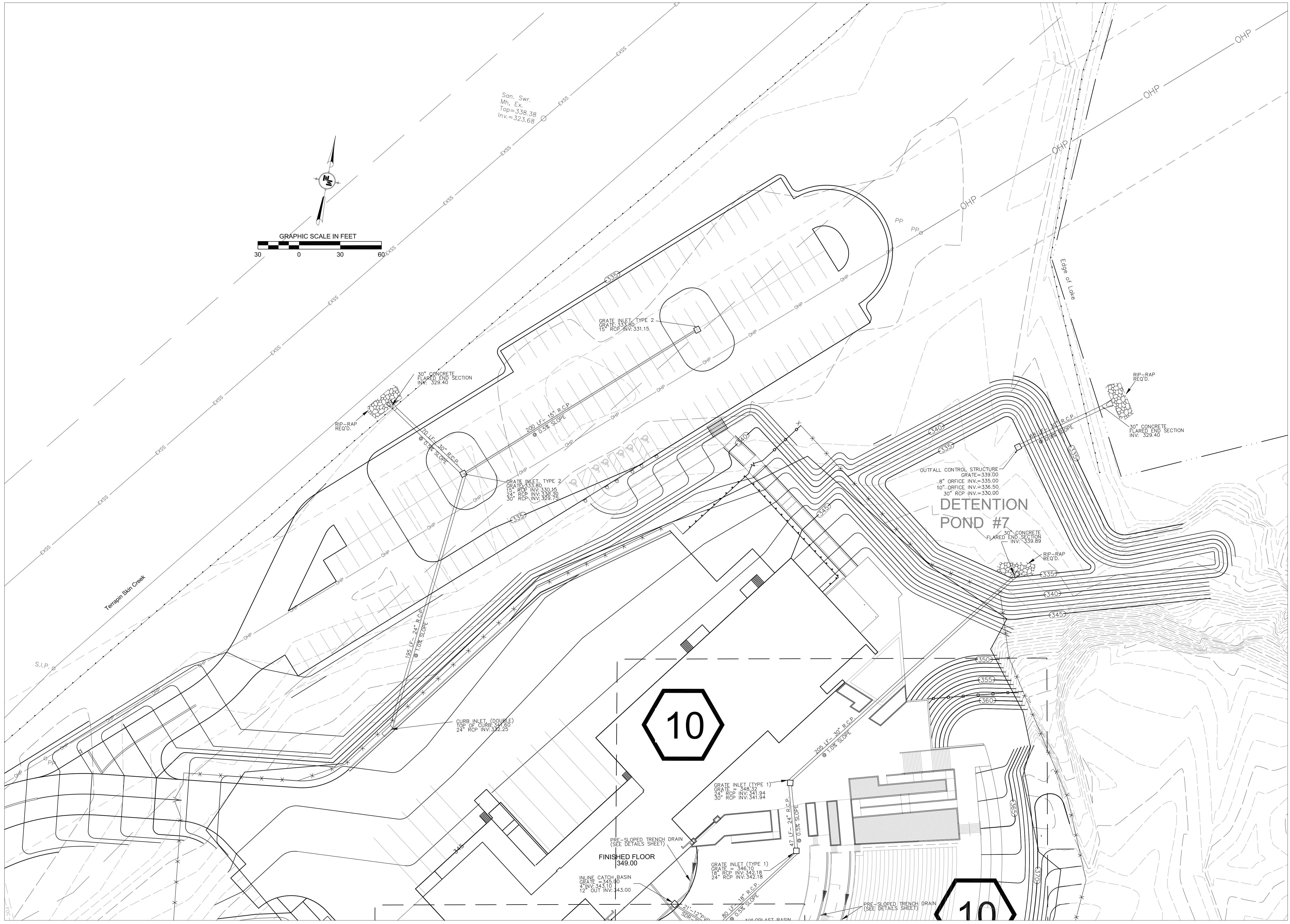
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- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- GRATE INLET
- CURB INLET
- PIPE



17 JUNE 2016
CONSTRUCTION
DOCUMENTS
WBA #:
2215/2315
NSI #:
12779/12780
REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum No. 1	July 8, 2016
2	Addendum No. 2	July 15, 2016

C1.9
Grading and
Drainage Plan



**RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK**

CITY OF BRANDON
BRANDON, MISSISSIPPI

LEGEND

- EXISTING CONTOUR MAJOR
 ----- EXISTING CONTOUR MINOR
 ===== PROPOSED CONTOUR MAJOR
 ===== PROPOSED CONTOUR MINOR
 [335.00] SPOT ELEVATION
 [TW36.30] TOP OF WALL SPOT
 ELEVATION
 [] GRATE INLET
 [] CURB INLET
 [] PIPE



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:

2215/2315

NSI #: 10770/1070

12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum No. 1	July 8, 2016
2	Addendum No. 2	July 15, 2016

C1.10

Grading and
Drainage Plan

**RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK**

CITY OF BRANDON
BRANDON, MISSISSIPPI

LEGEND

-
- - - - - EXISTING CONTOUR MAJOR
 - - - - - EXISTING CONTOUR MINOR
 = = = = = PROPOSED CONTOUR MAJOR
 = = = = = PROPOSED CONTOUR MINOR
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 [TW336.30] TOP OF WALL SPOT
 [] ELEVATION
 [] GRATE INLET
 [] CURB INLET
 [] PIPE



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:

2215/2315

NSI #:

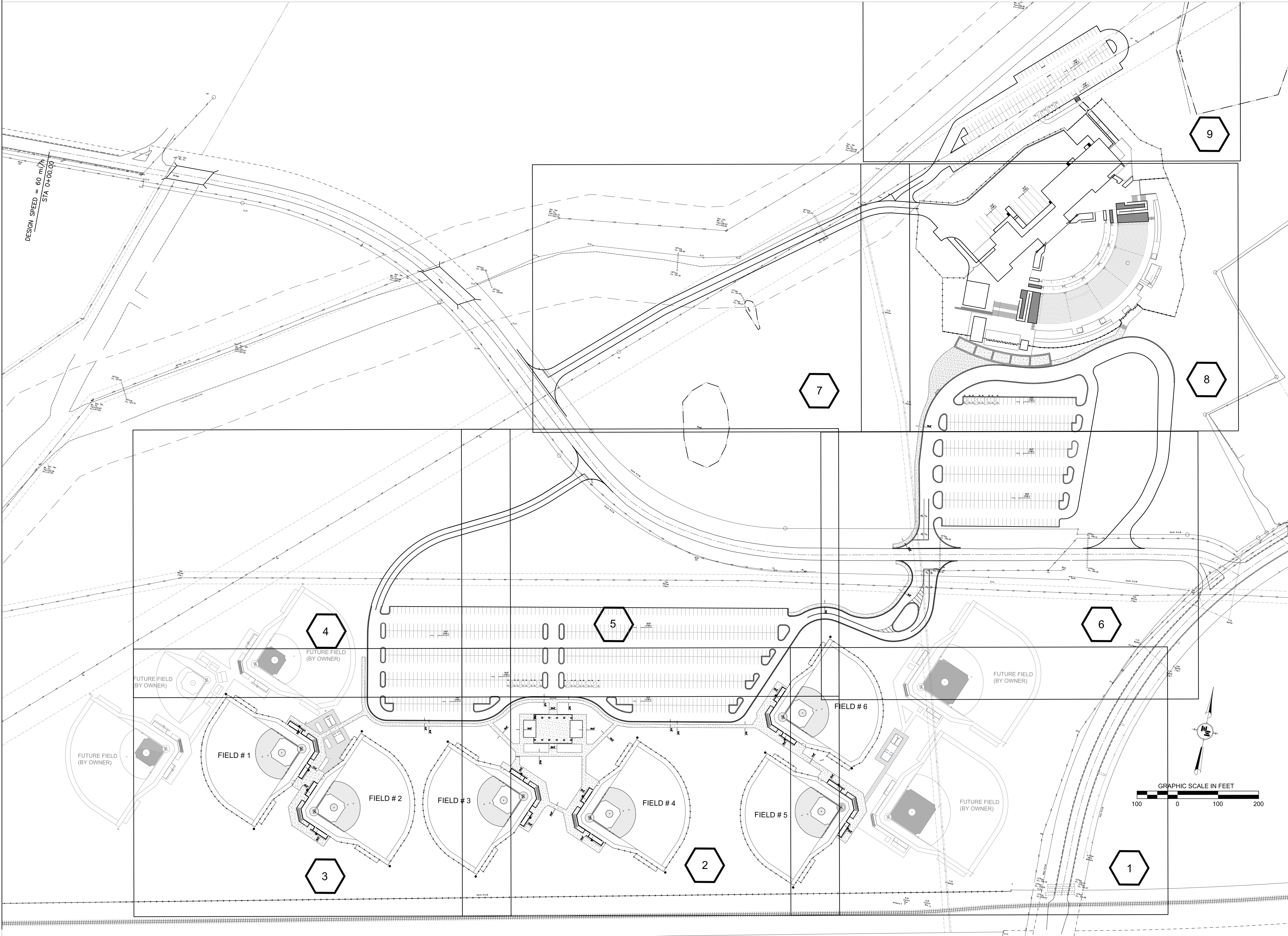
12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum No. 1	July 8, 2016
2	Addendum No. 2	July 15, 2016

C1.11

Grading and
Drainage Plan



WIER BOERNER ALLIN
ARCHITECTURE

2906 N.STATE STREET, SUITE 106
JACKSON, MISSISSIPPI 39216

P:601.321.9107 F:601.321.9108

NEEL-SCHAFER
Solutions you can build upon

125 S. CONGRESS ST, SUITE 1100
JACKSON, MISSISSIPPI 39201

P:601.948.3071 F:601.948.3178

**RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK**

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

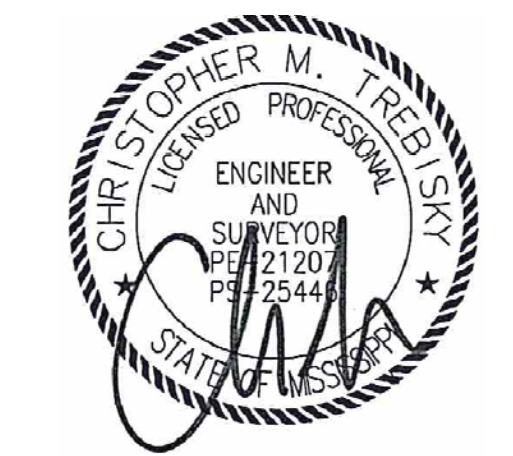
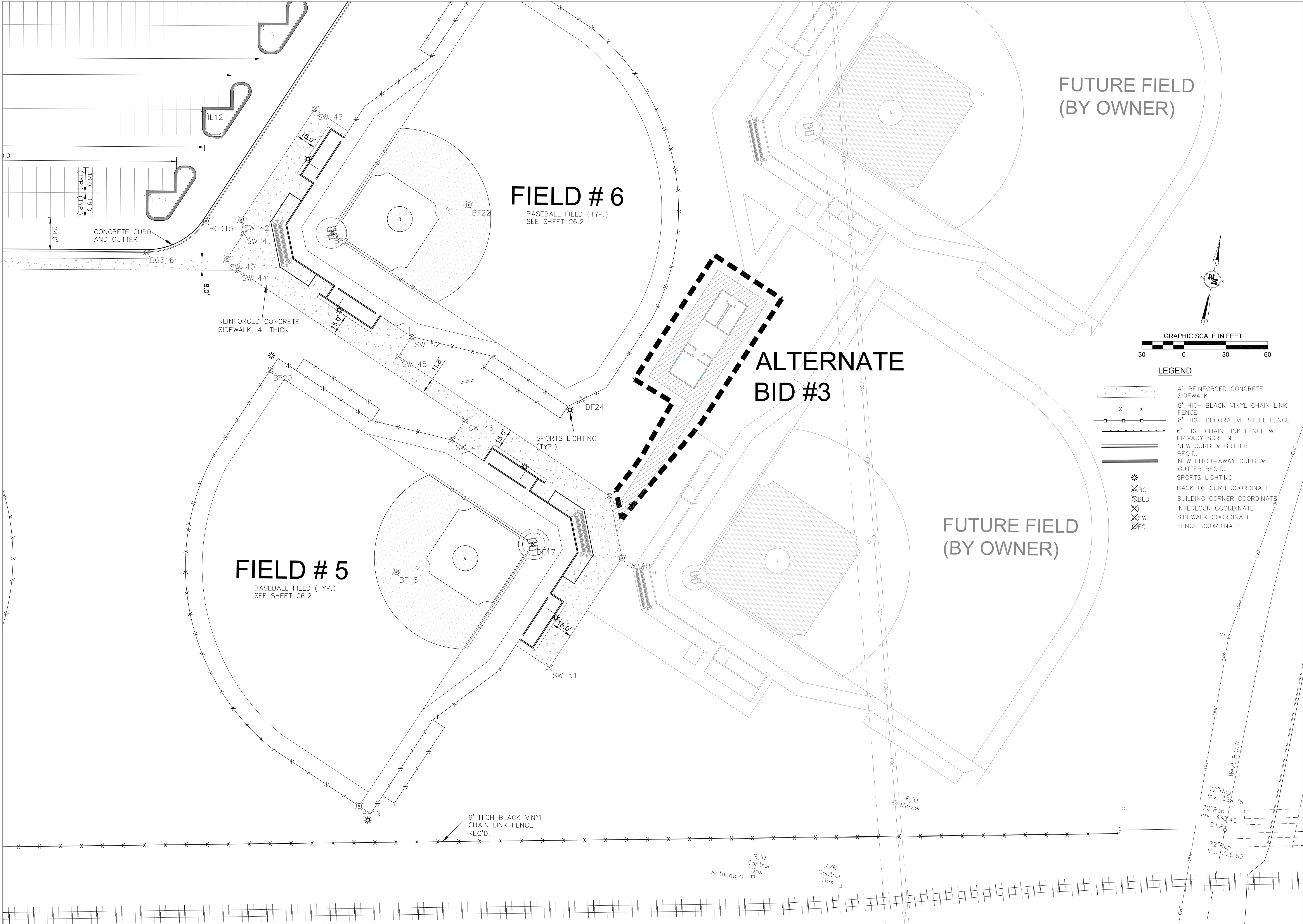
WBA #:
2215/2315
NSI #:
12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016

C2.0

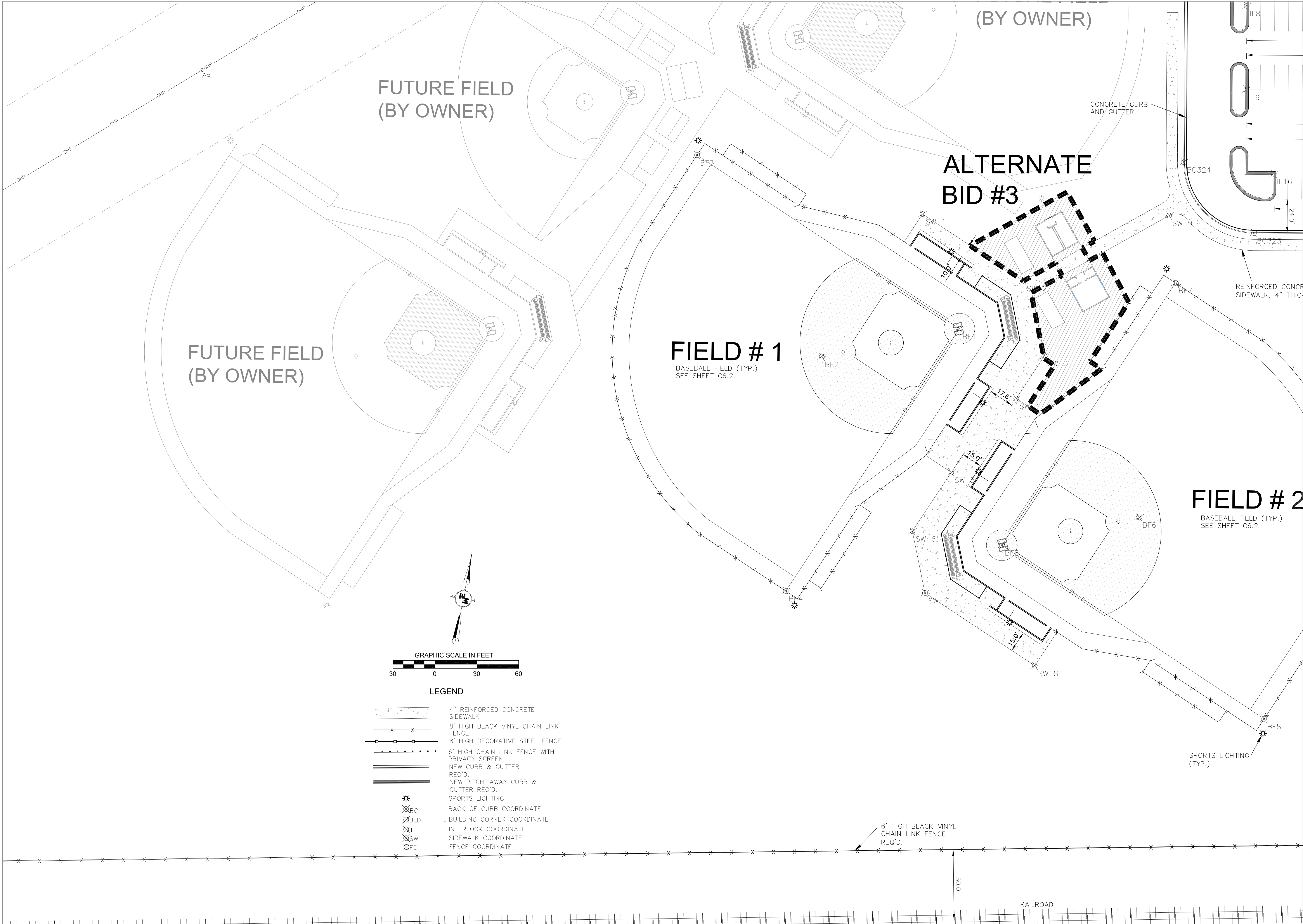
Overall Layout
Plan



17 JUNE 2016
CONSTRUCTION
DOCUMENTS
WBA #:
2215/2315
NSI #:
12779/12780
REVISIONS

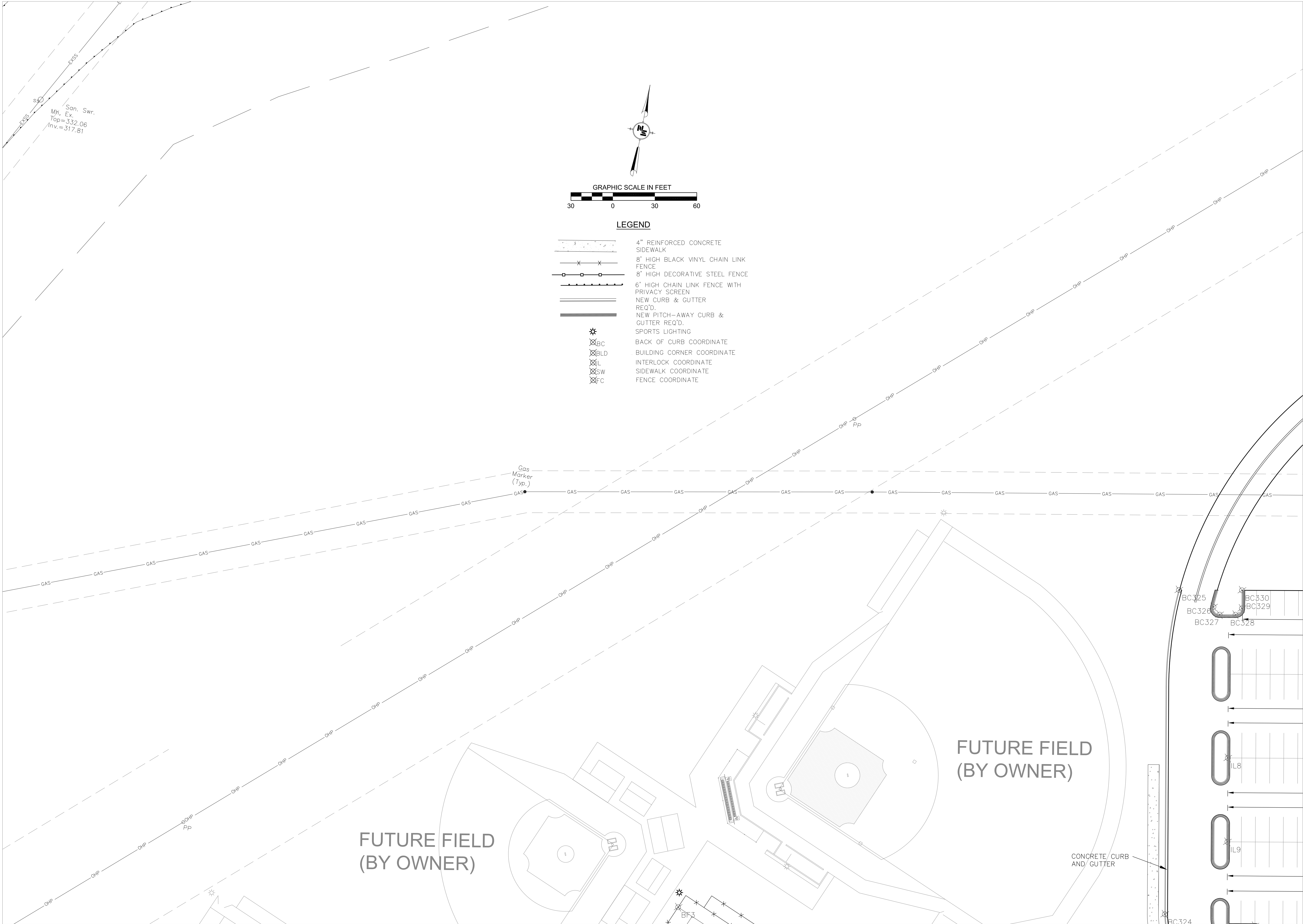
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2	Addendum No. 2	July 15, 2016

Site Dimension Plan



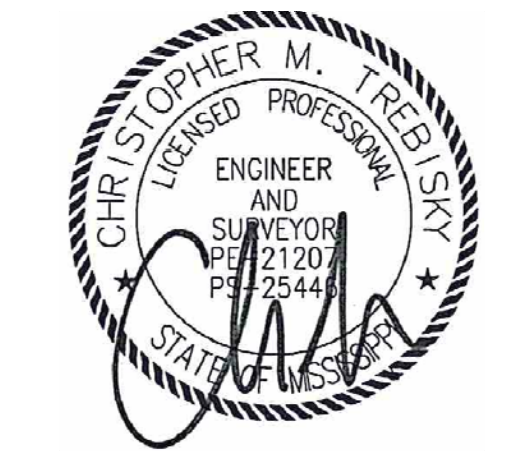
17 JUNE 2016
CONSTRUCTION
DOCUMENTS
WBA #:
2215/2315
NSI #:
12779/12780
REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum No. 1	July 8, 2016
2	Addendum No. 2	July 15, 2016



RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

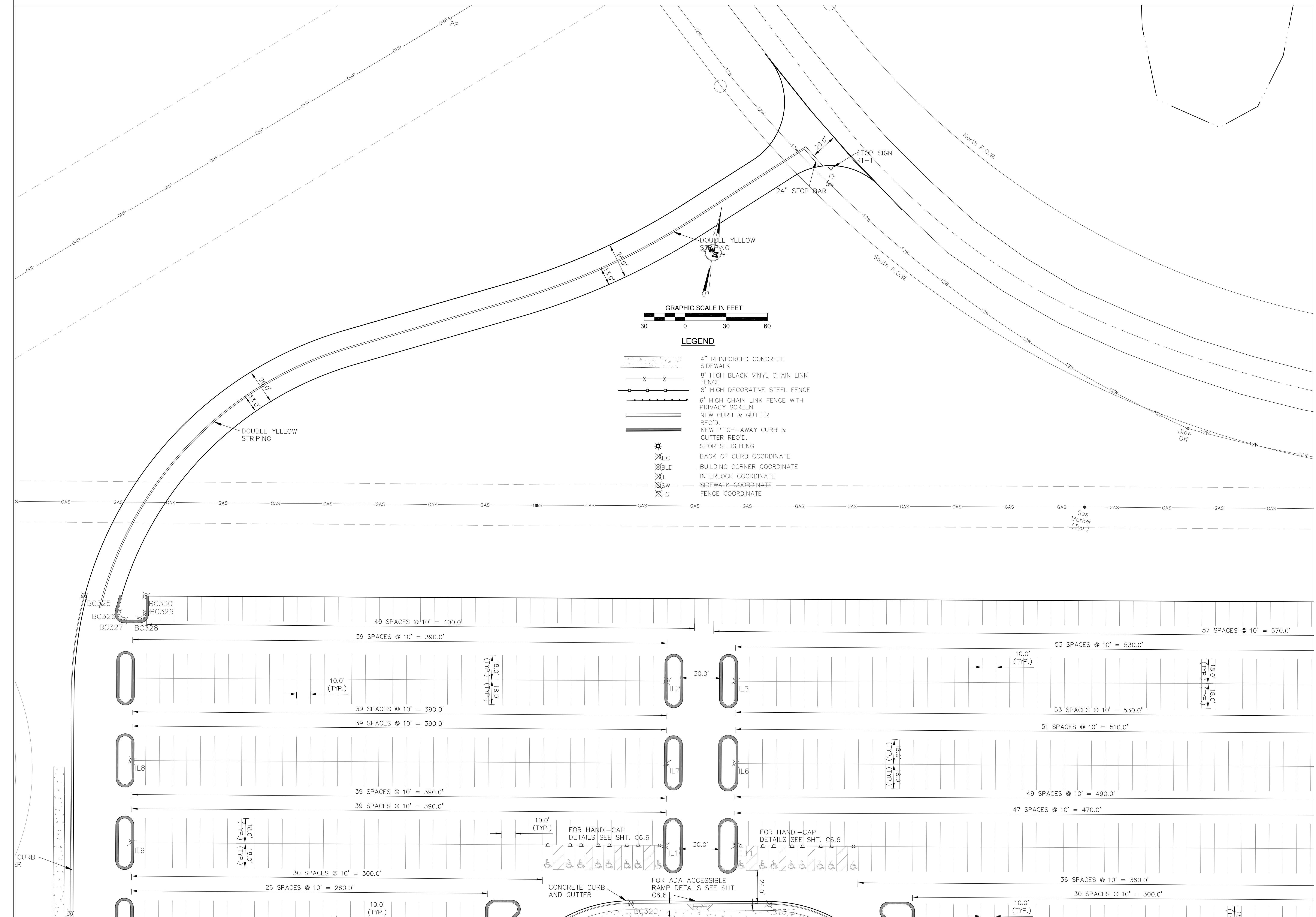
CITY OF BRANDON
BRANDON, MISSISSIPPI



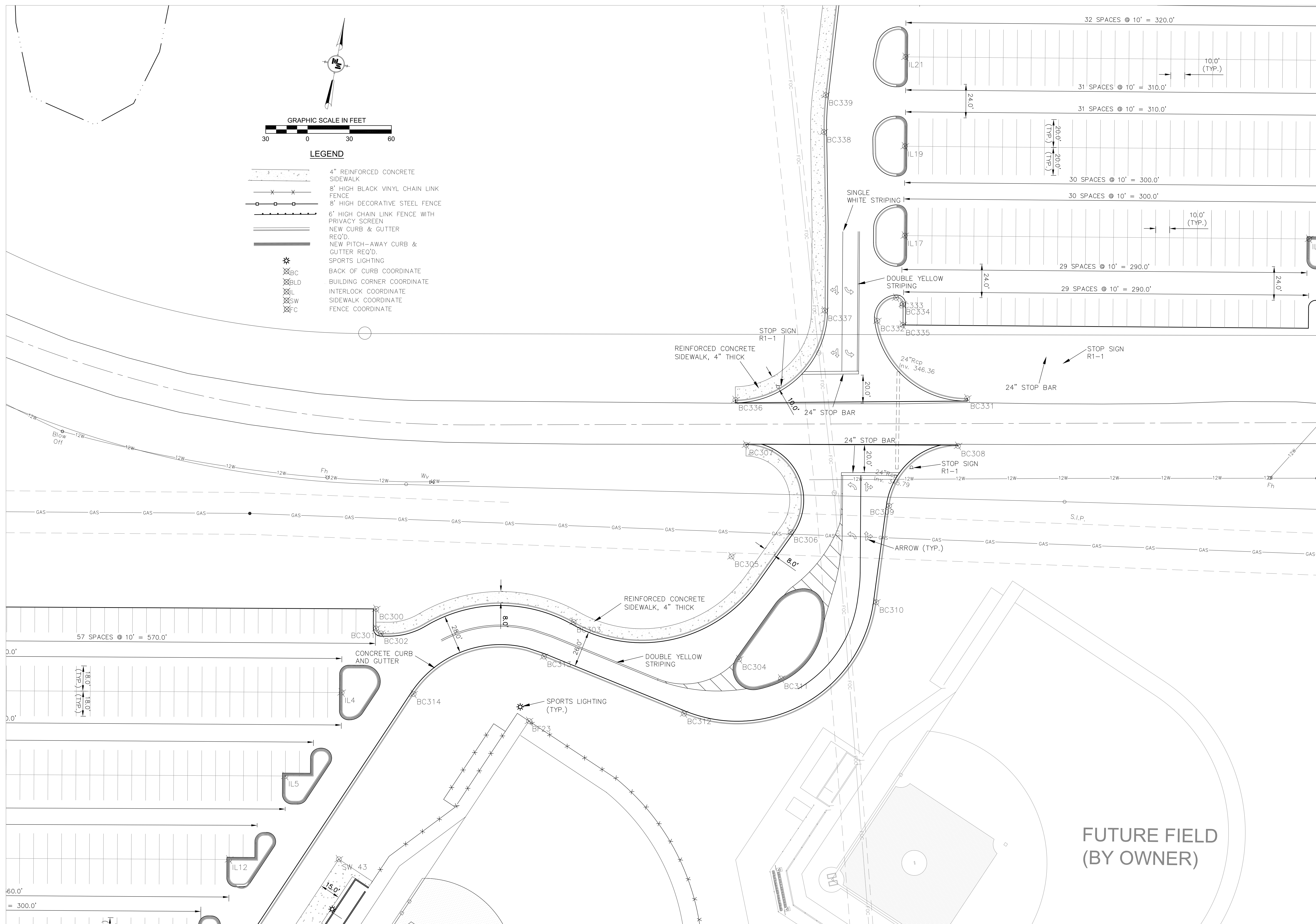
17 JUNE 2016		
CONSTRUCTION DOCUMENTS		
WBA #:		
2215/2315		
NSI #:		
12779/12780		
REVISIONS		
NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016

C2.5

Site Dimension
Plan

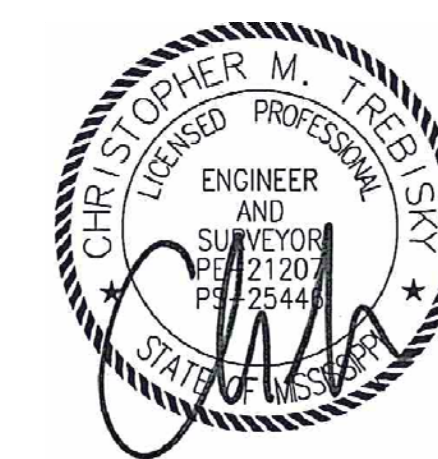
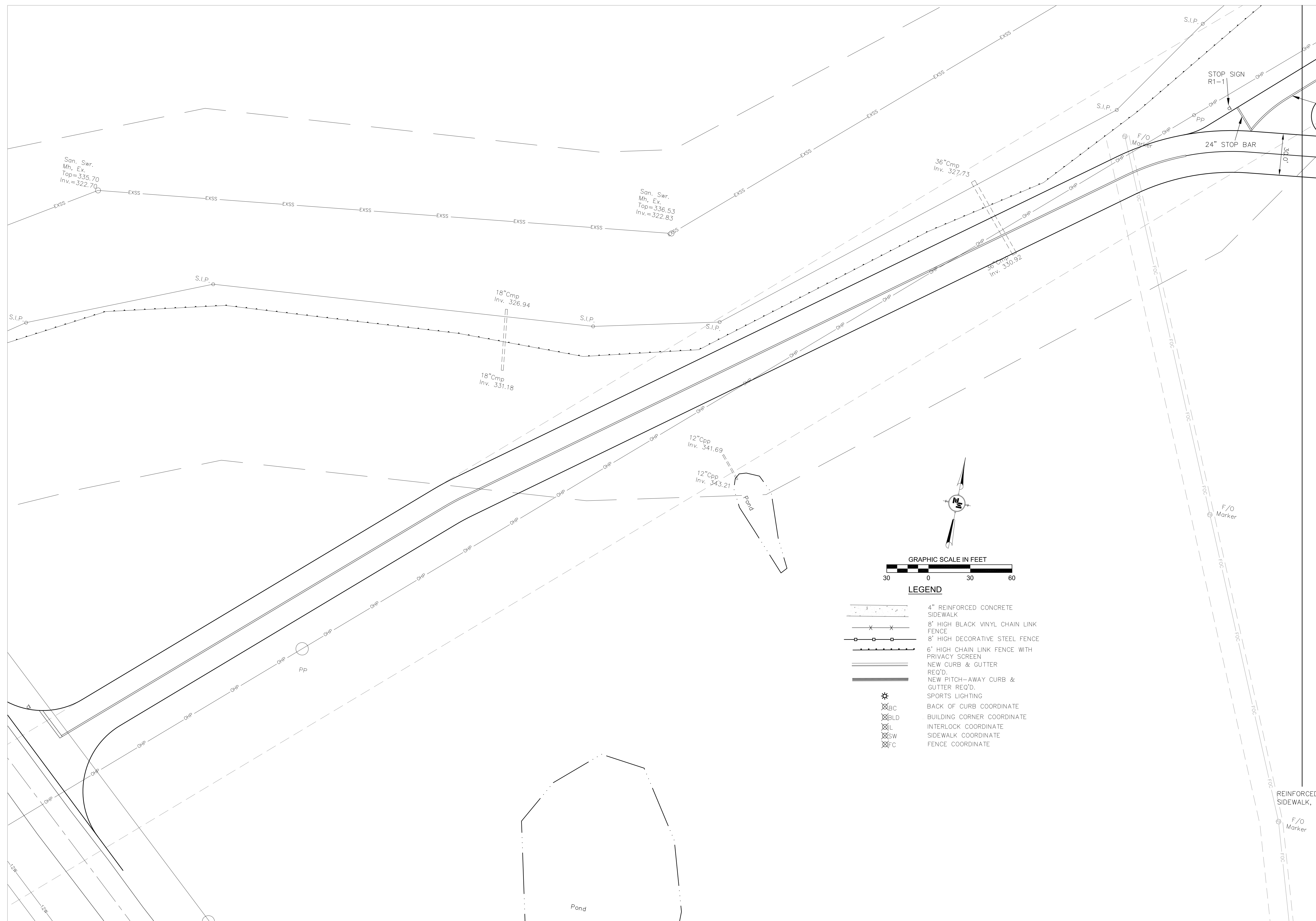


Site Dimension Plan



RANKIN TRAILS AMPHITHEATER & BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:

2215/2315

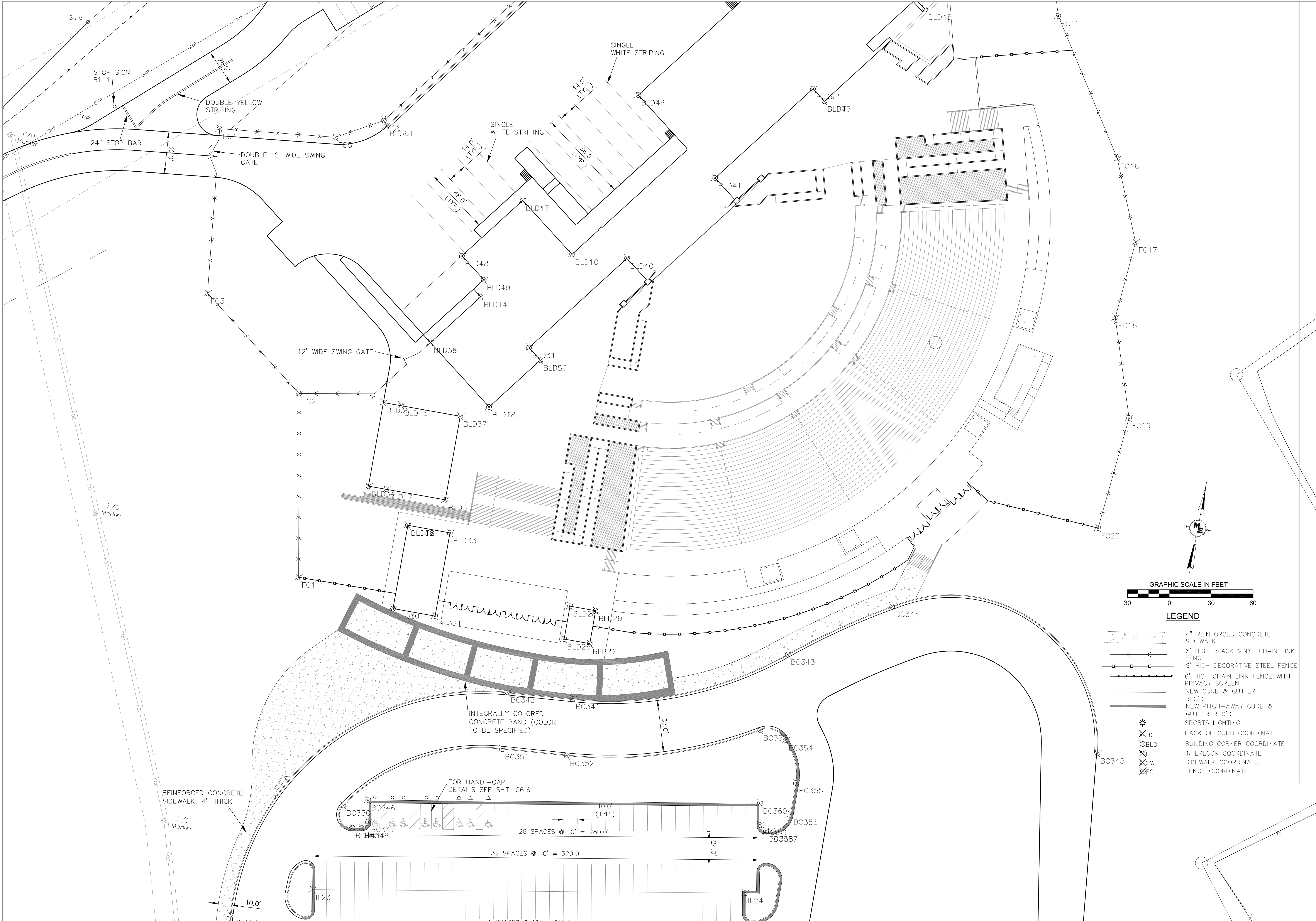
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12779/1278

REVISIONS

NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 201

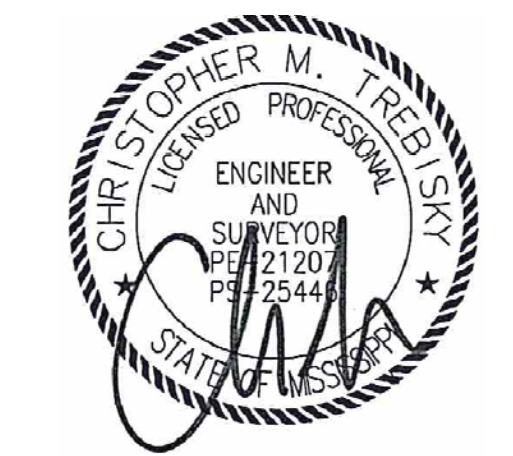
C2.7

Site Dimension Plan



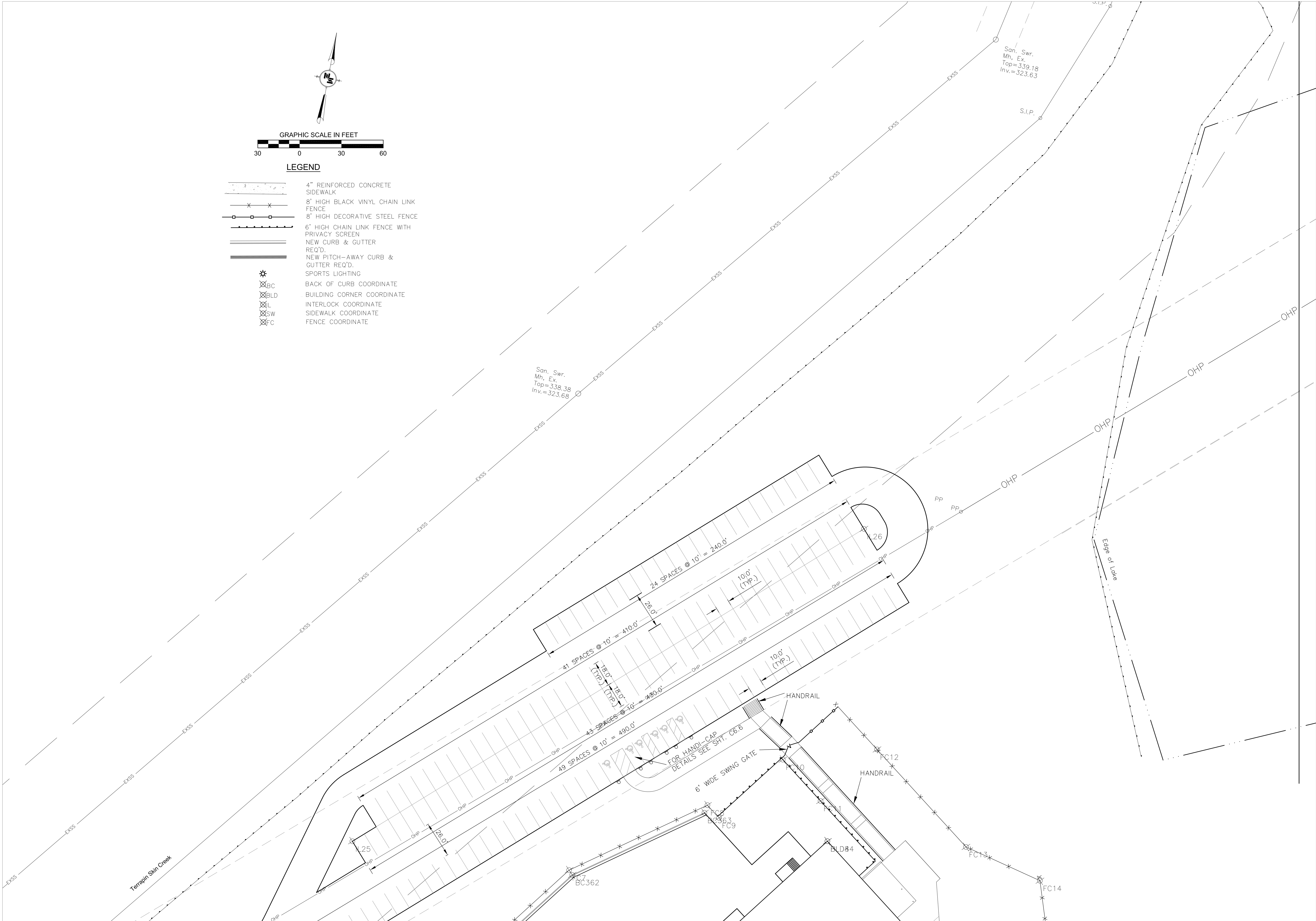
RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016
CONSTRUCTION
DOCUMENTS
WBA #:
2215/2315
NSI #:
12779/12780

REVISIONS		
NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016



WIER BOERNER ALLIN
ARCHITECTURE

2906 N.STATE STREET, SUITE 106
JACKSON, MISSISSIPPI 39216

P:601.321.9107 F:601.321.9108

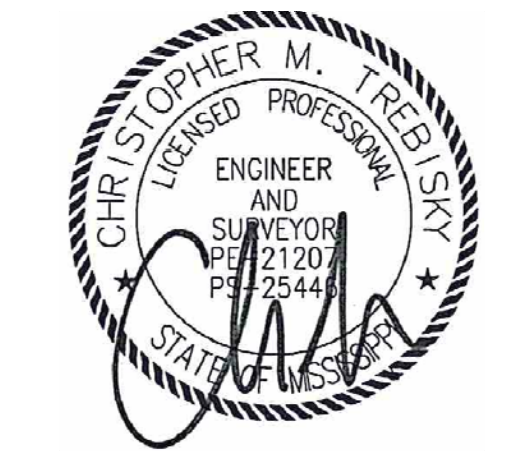
NEEL-SCHAFER
Solutions you can build upon

125 S. CONGRESS ST. SUITE 1100
JACKSON, MISSISSIPPI 39201

P:601.948.3071 F:601.948.3178

**RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK**

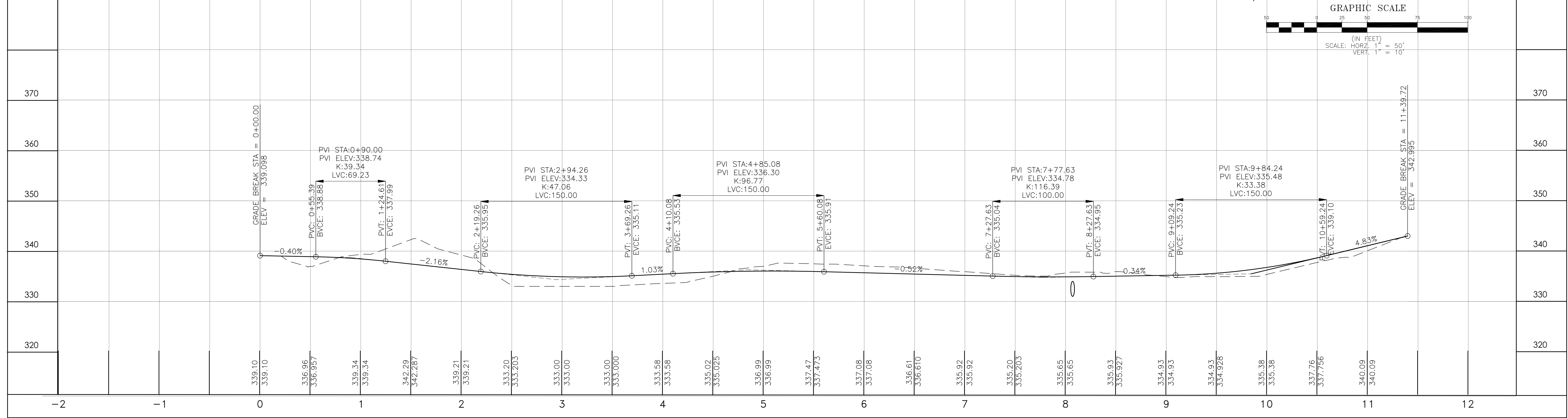
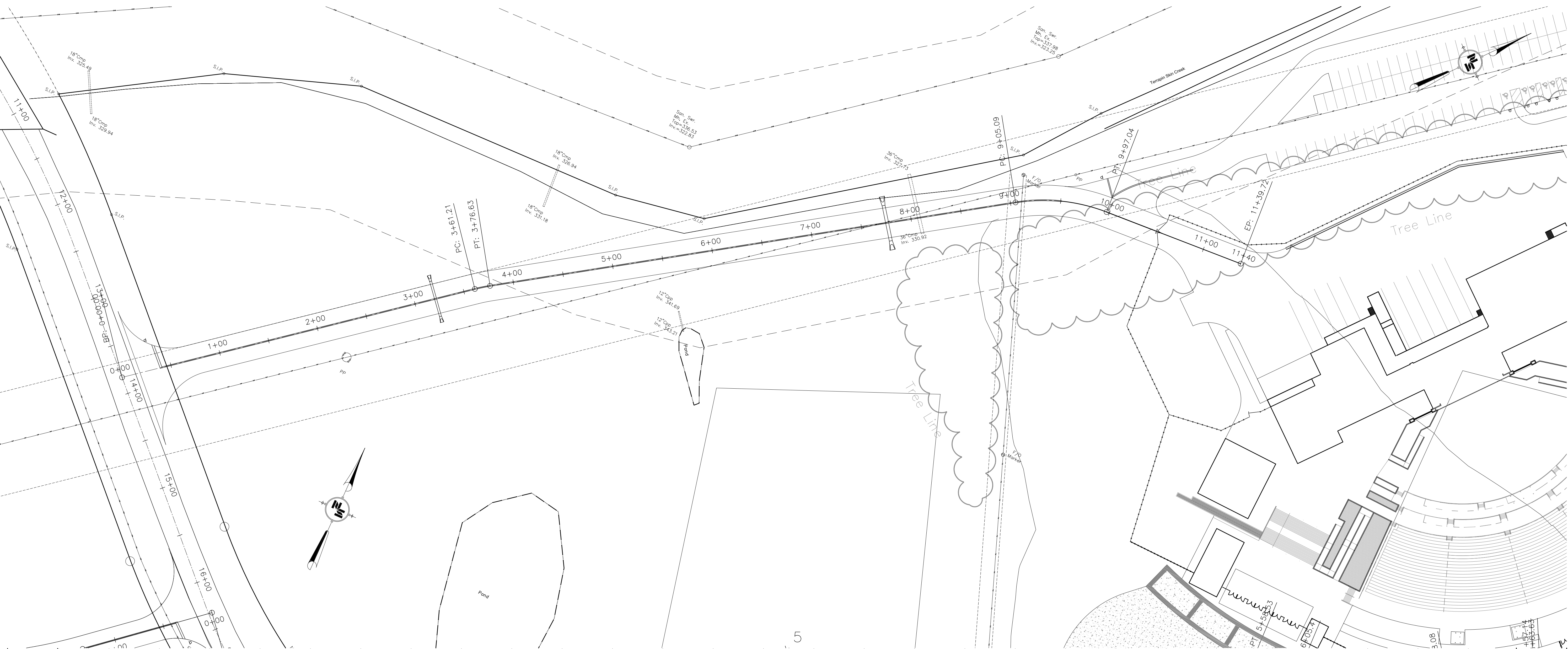
CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016
CONSTRUCTION
DOCUMENTS
WBA #:
2215/2315
NSI #:
12779/12780

REVISIONS		
NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016

C2.9
Site Dimension
Plan



WIER BOERNER ALLIN
ARCHITECTURE

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JACKSON, MISSISSIPPI 39216

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NEEL-SCHAFER
Solutions you can build upon

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JACKSON, MISSISSIPPI 39201

P:601.948.3071 F:601.948.3178

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI

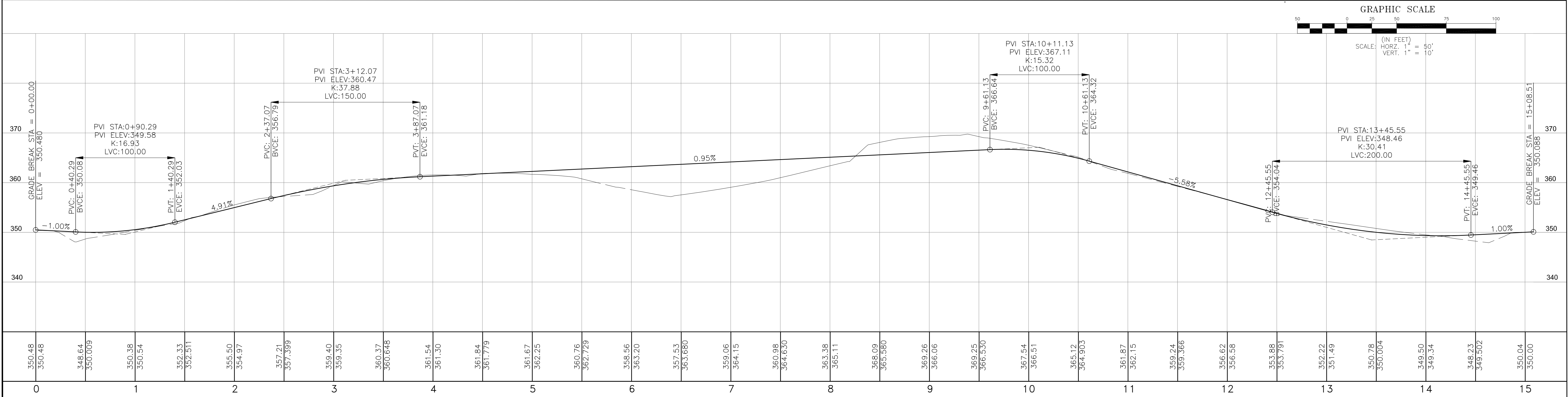
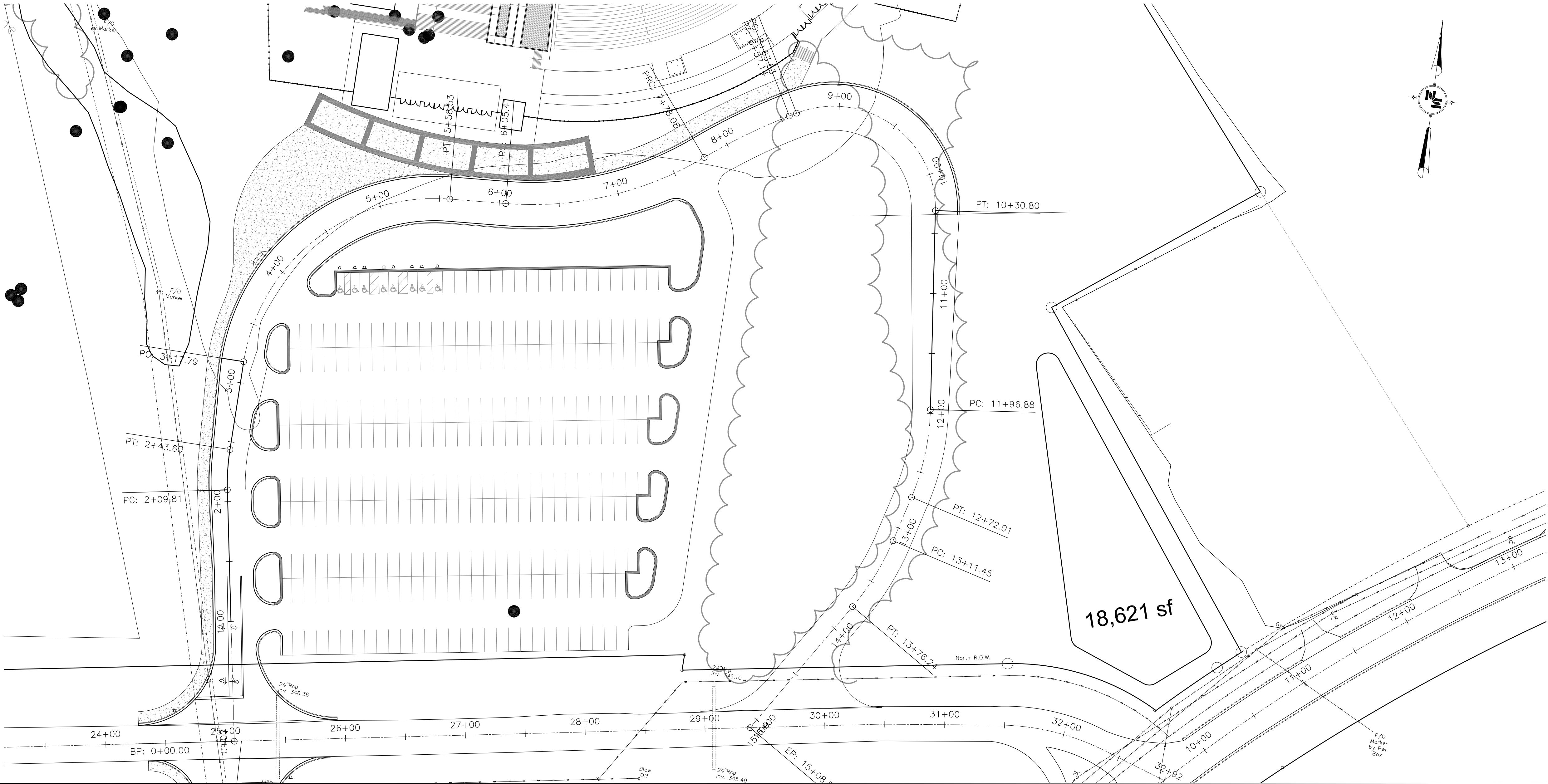


17 JUNE 2016
CONSTRUCTION
DOCUMENTS
WBA #:
2215/2315
NSI #:
12779/12780
REVISIONS
NO. DESCRIPTION DATE
2 Addendum No. 2 July 15, 2016

C3.1
Plan and
Profile

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:

2215/2315

NSI #:

12779/12780

REVISIONS

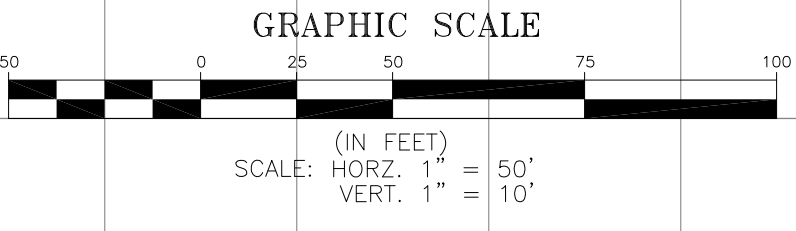
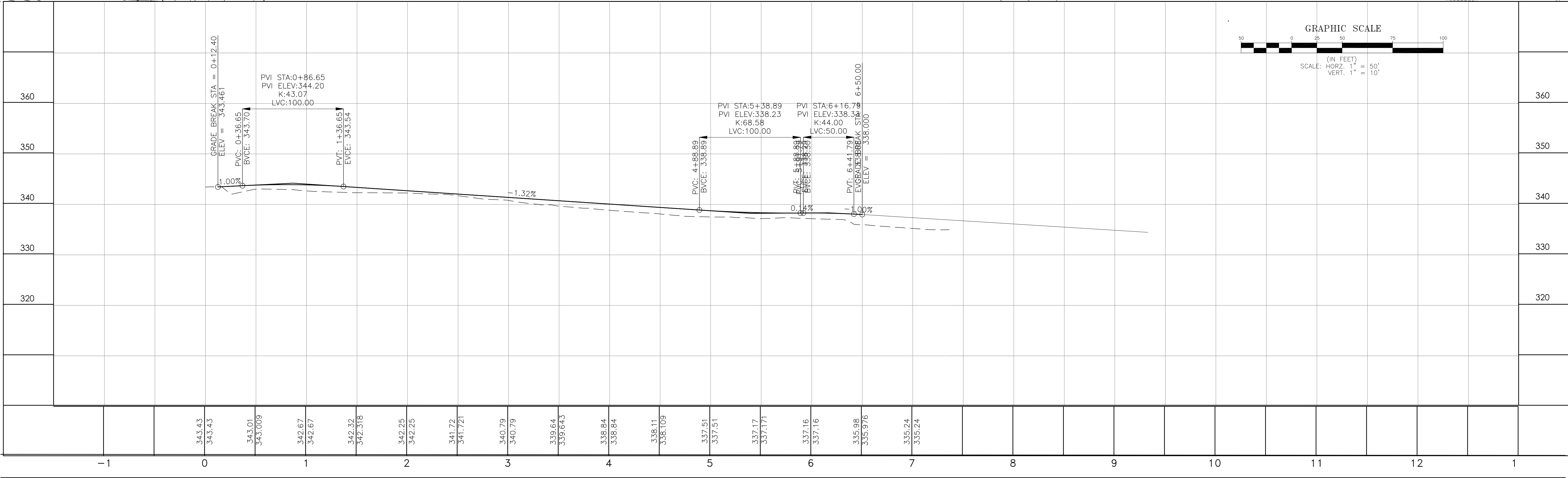
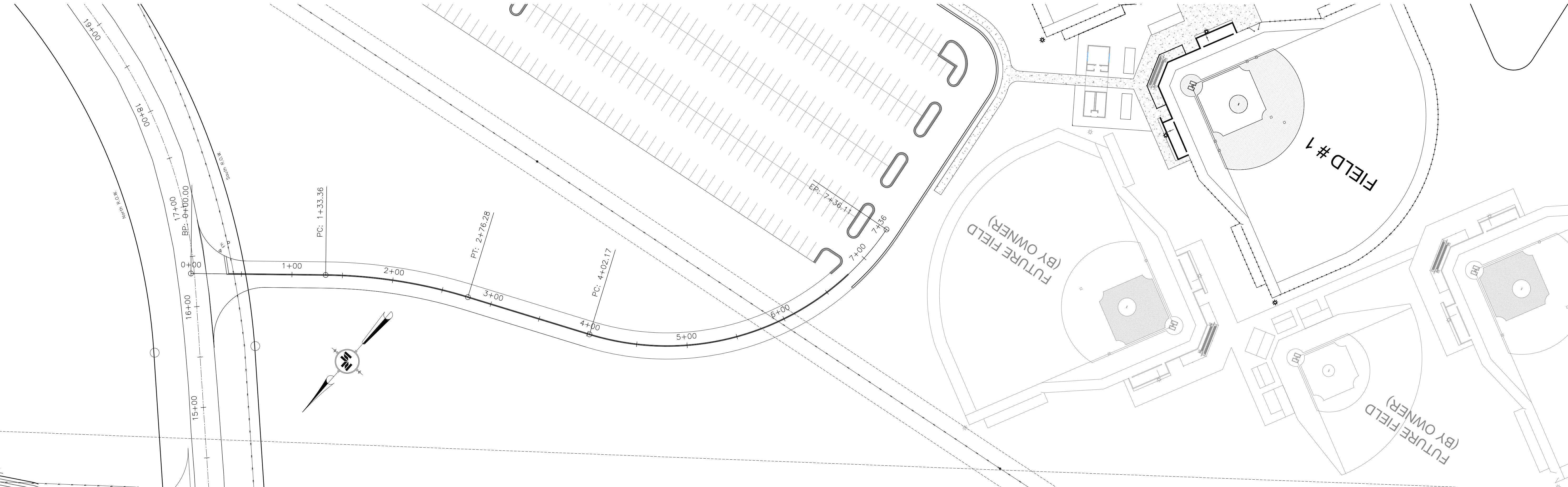
NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016

C3.2

Plan and Profile
Amphitheater Entrance
Drive

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

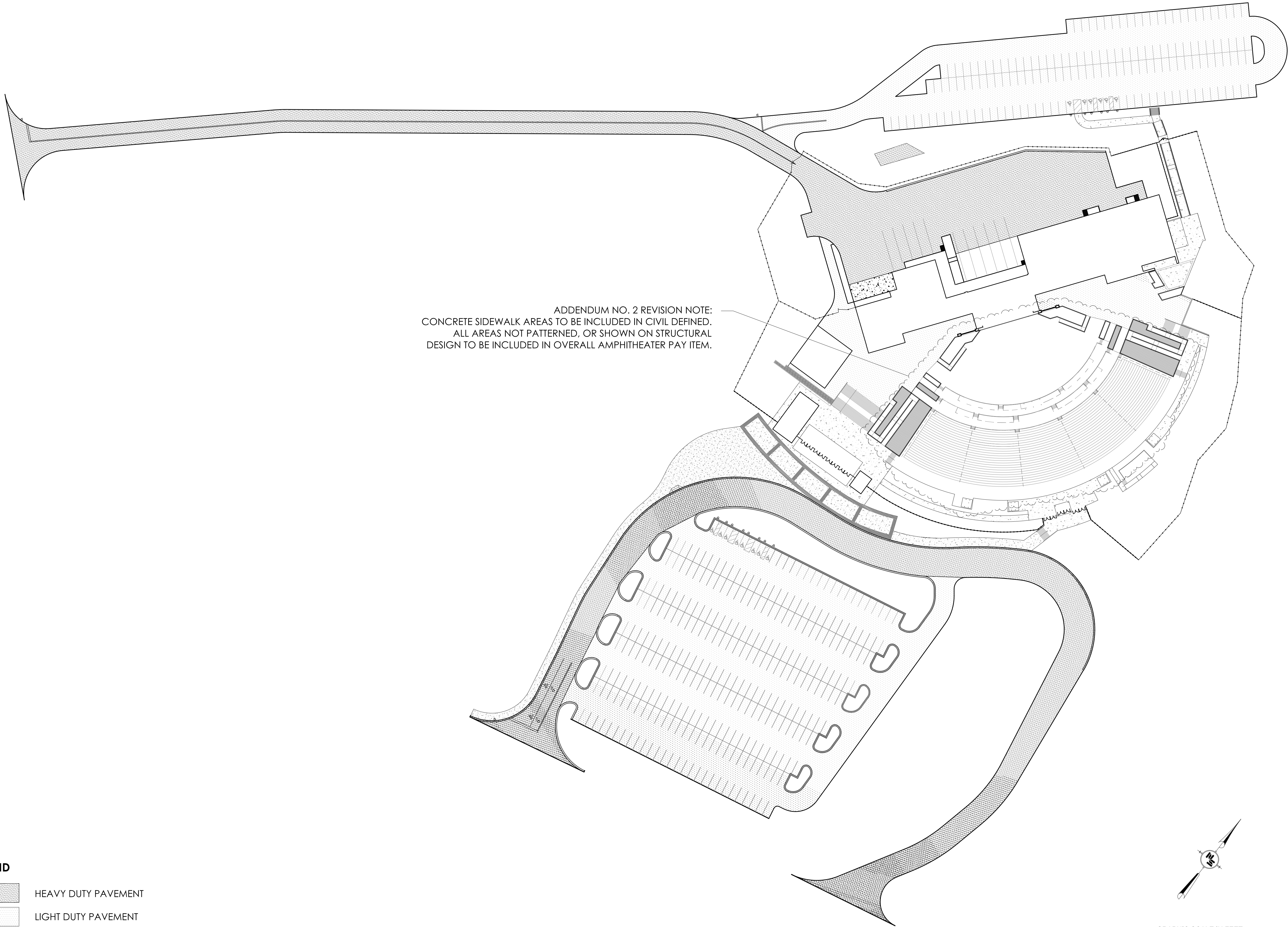
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NSI #:
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REVISIONS

NO.	DESCRIPTION	DATE
2	Addendum No. 2	July 15, 2016

C3.3

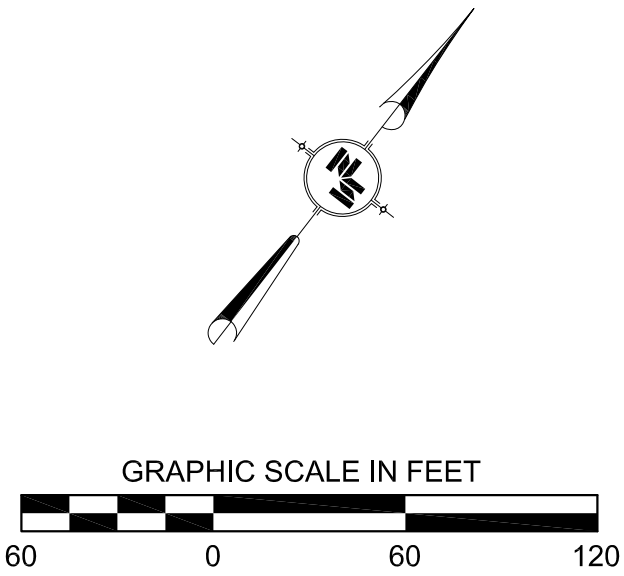
Plan and Profile
South West Ballfield
Entrance



ADDENDUM NO. 2 REVISION NOTE:
CONCRETE SIDEWALK AREAS TO BE INCLUDED IN CIVIL DEFINED.
ALL AREAS NOT PATTERNED, OR SHOWN ON STRUCTURAL
DESIGN TO BE INCLUDED IN OVERALL AMPHITHEATER PAY ITEM.

LEGEND

- HEAVY DUTY PAVEMENT
- LIGHT DUTY PAVEMENT
- REINFORCED CONCRETE, 4" THICK
- REINFORCED CONCRETE, 6" THICK



WIER BOERNER ALLIN
ARCHITECTURE

2906 N.STATE STREET, SUITE 106
JACKSON, MISSISSIPPI 39216

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NEEL-SCHAFFER
Solutions you can build upon

125 S. CONGRESS ST, SUITE 1100
JACKSON, MISSISSIPPI 39201

P:601.948.3071 F:601.948.3178

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:
2215/2315

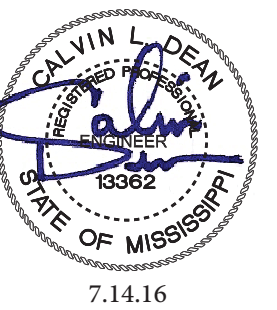
NSI #:
12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 2	07/15/16

C3.4
Surfacing Plan

CITY OF BRANDON
BRANDON, MISSISSIPPI

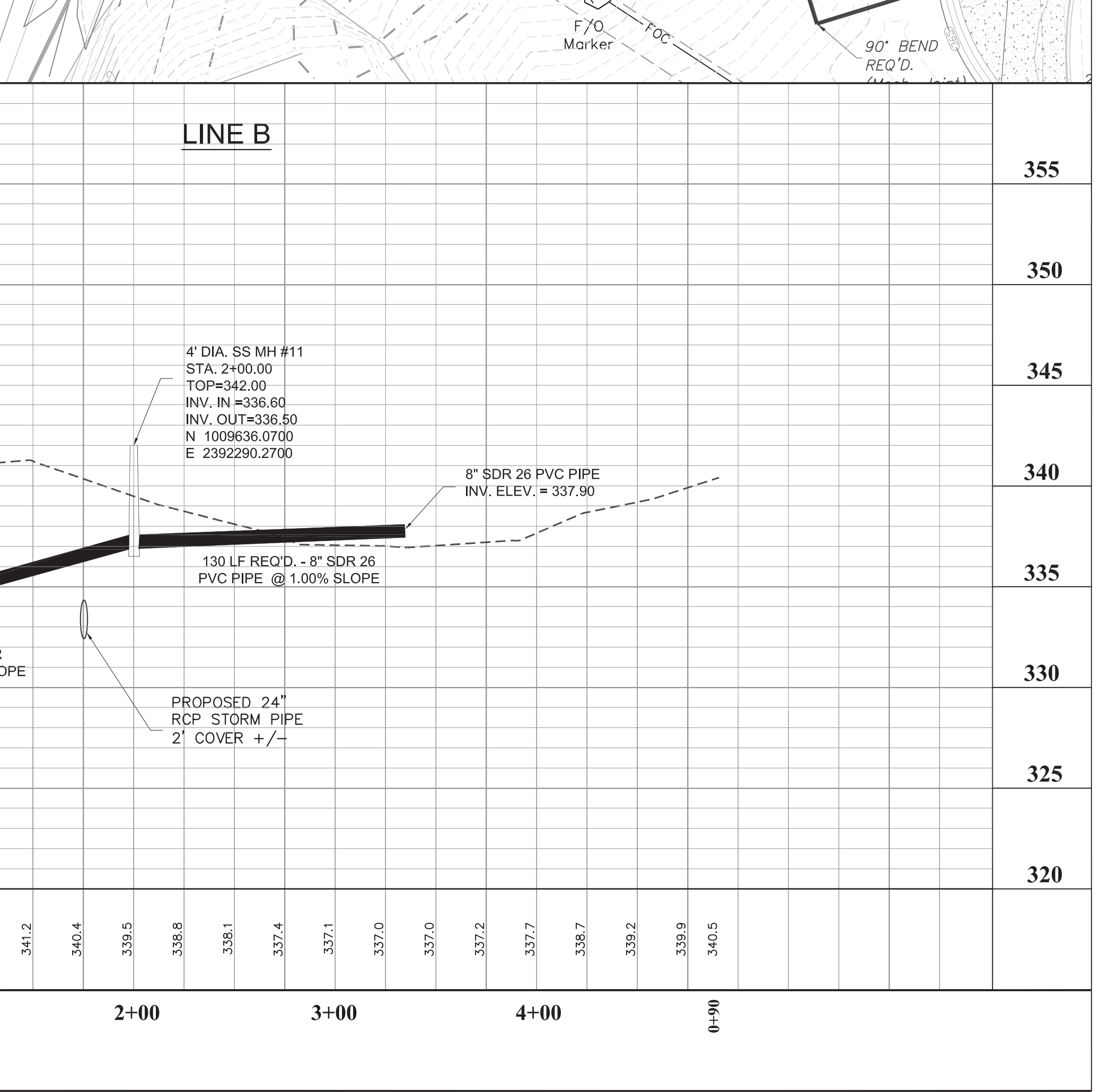
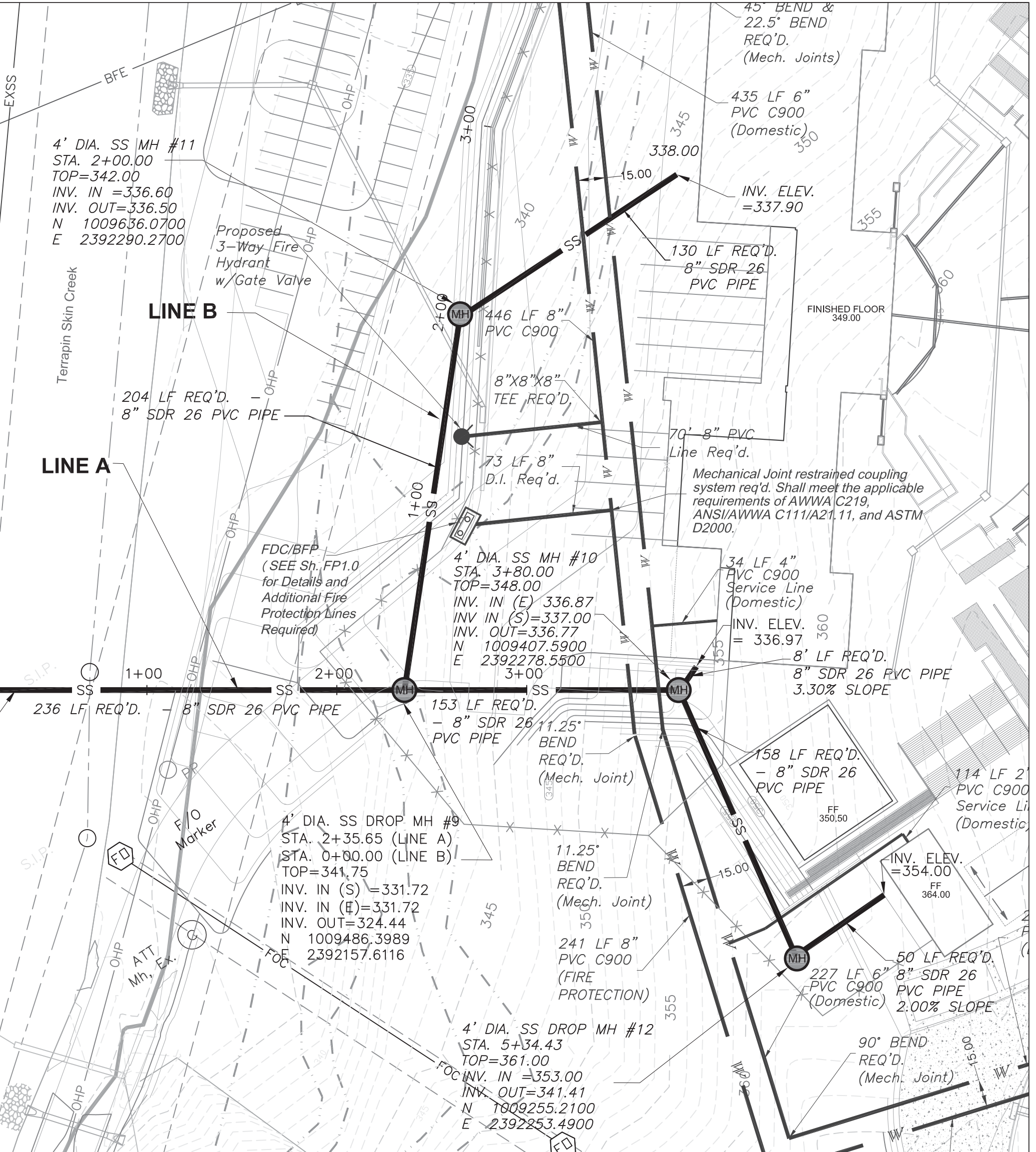
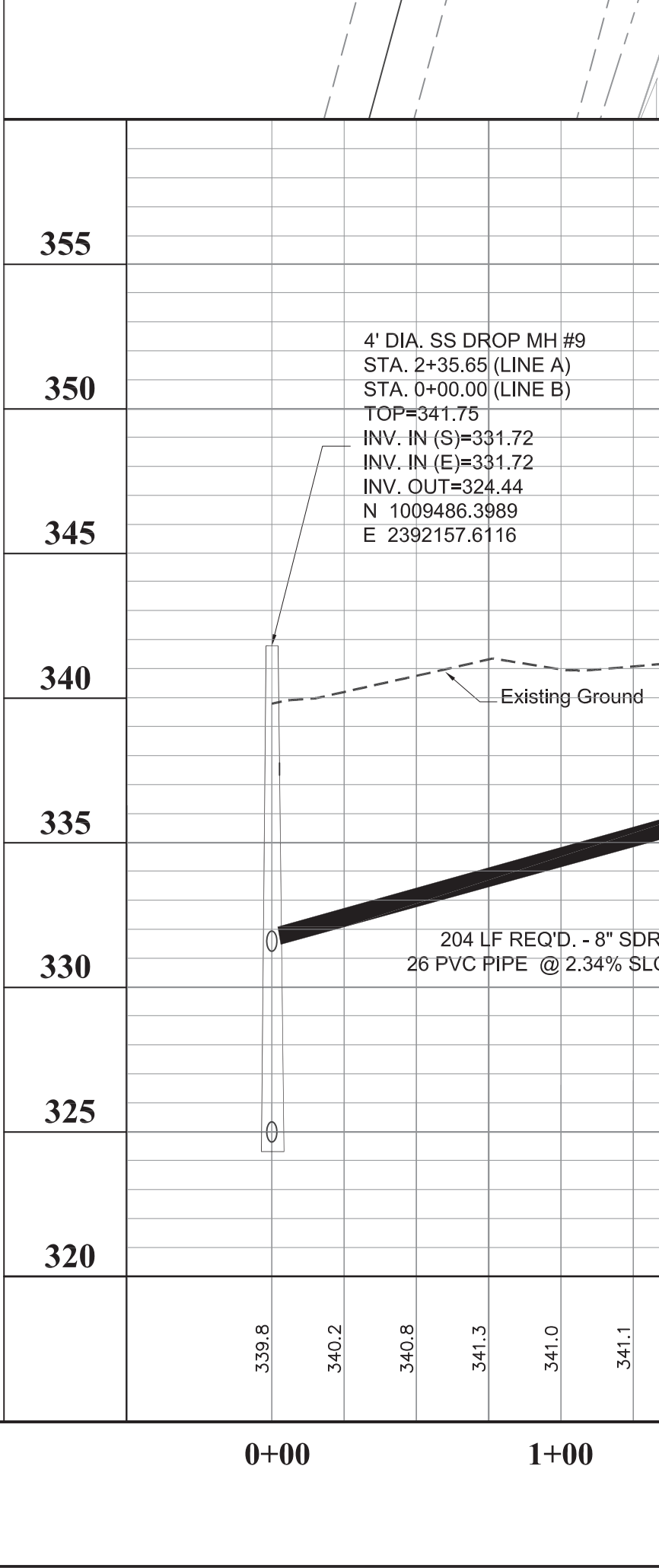
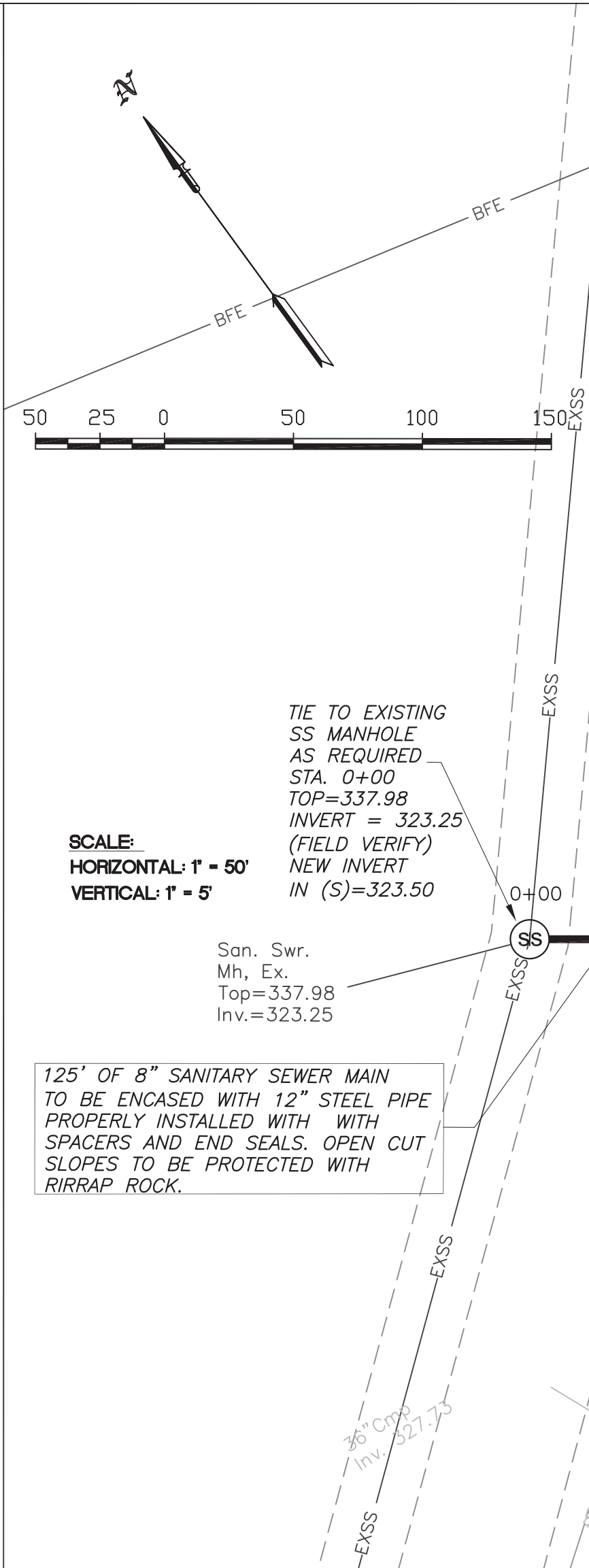
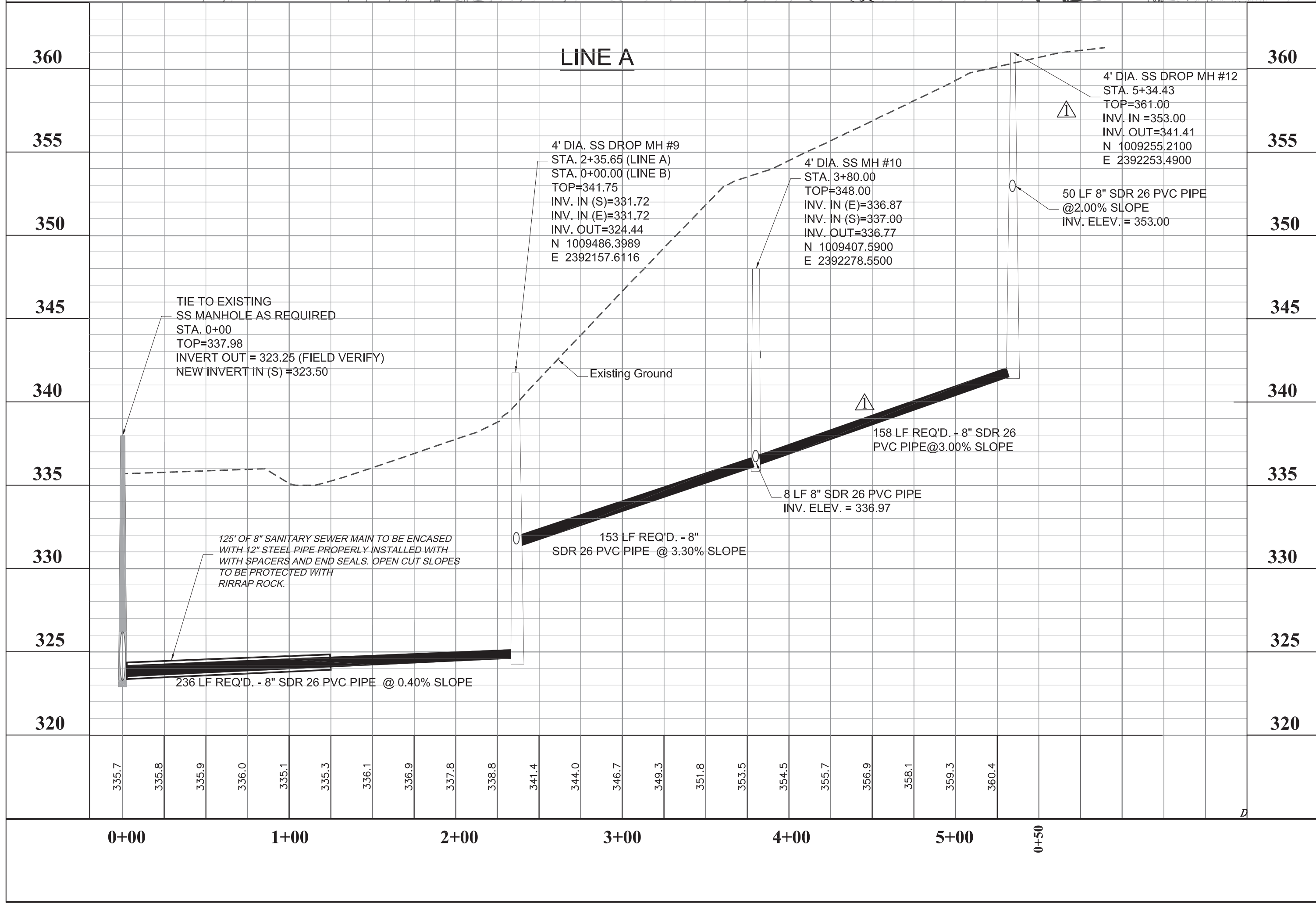
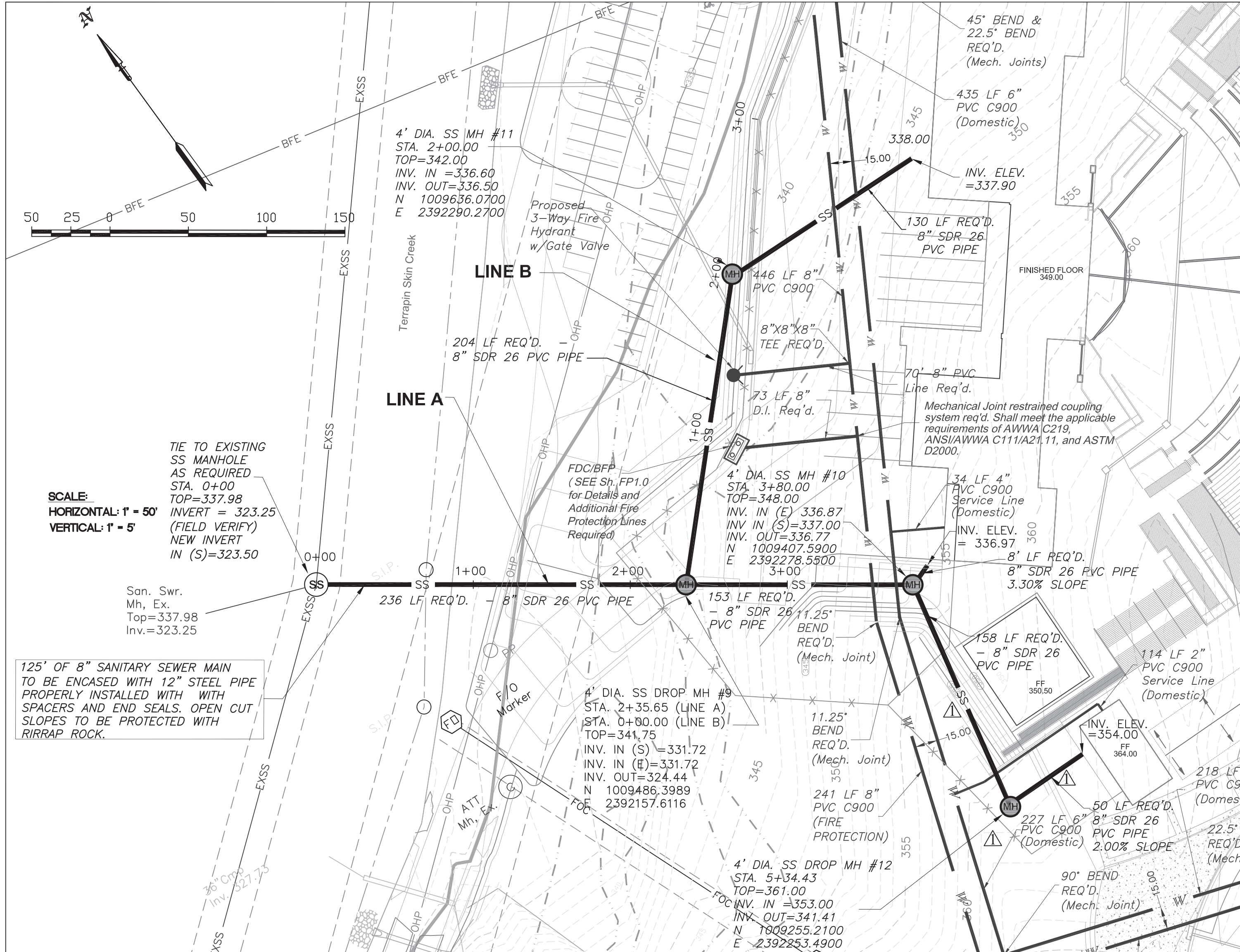


CONSTRUCTION DOCUMENTS

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDED FDC, SUPPLY LINE AND WATER SERVICE LINES	7/14/16

C4.0

AMPHITHEATER
UTILITY LAYOUT



RANKIN TRAILS
AMPHITHEATER
AND BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI

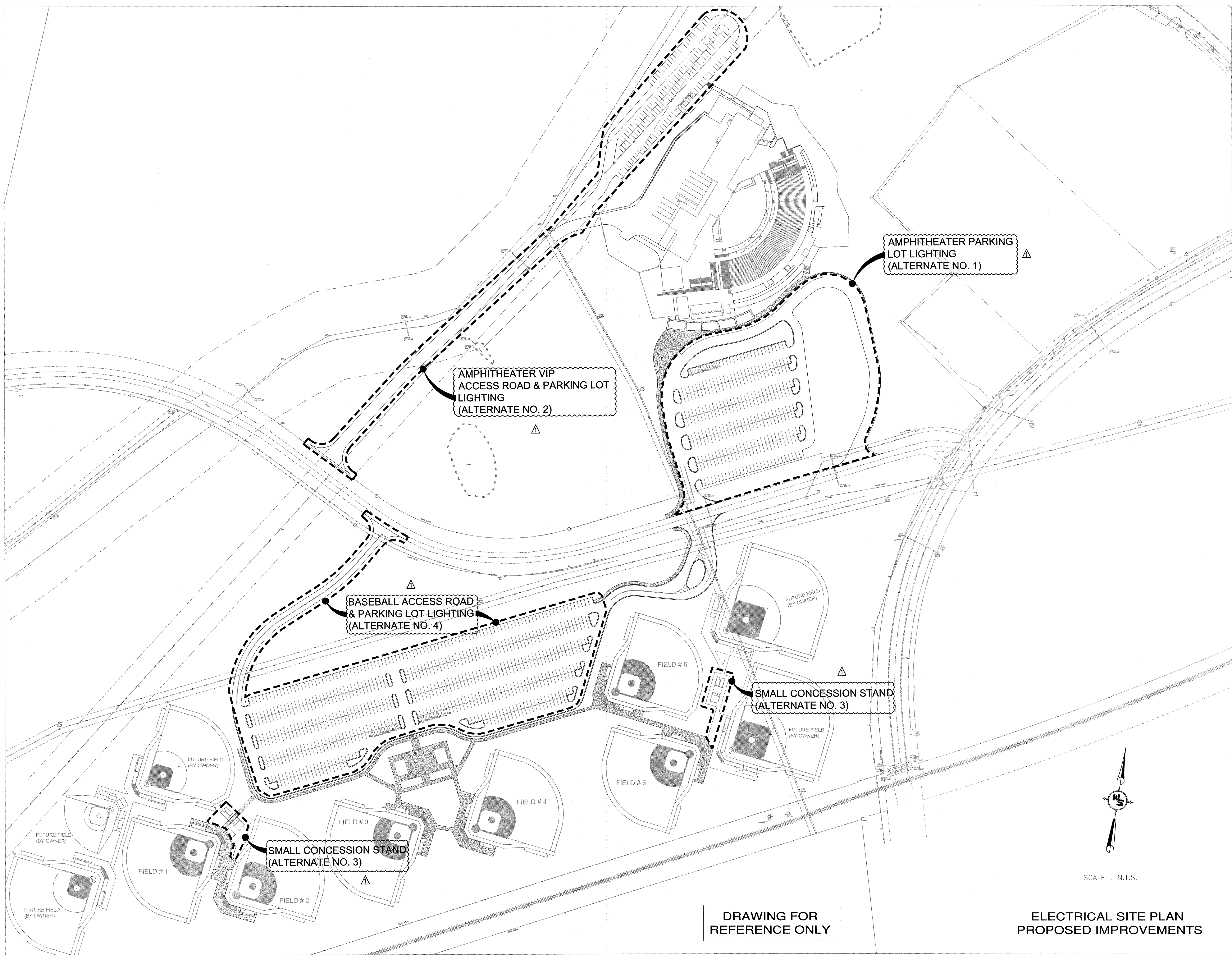


17 JUNE 2016

WBA #: 2315/2215
CONSTRUCTION DRAWINGS

REVISIONS	
NO.	DESCRIPTION
1	ADDED SANITARY SEWER LINE & MH

12779-Elec-Siteplan-Prop Imp.dwg



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ARCHITECTURE

2906 N.STATE STREET, SUITE 106
JACKSON, MISSISSIPPI 39216

P:601.321.9107 F:601.321.9108

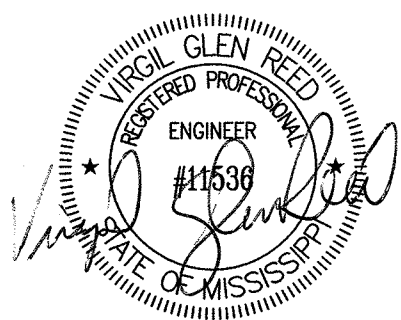
NEEL-SCHAFER
Solutions you can build upon

125 S. CONGRESS ST, SUITE 1100
JACKSON, MISSISSIPPI 39201

P:601.948.3071 F:601.948.3178

**RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK**

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:
2215 / 2315
NSI #:
12779/12780

REVISIONS		
NO.	DESCRIPTION	DATE
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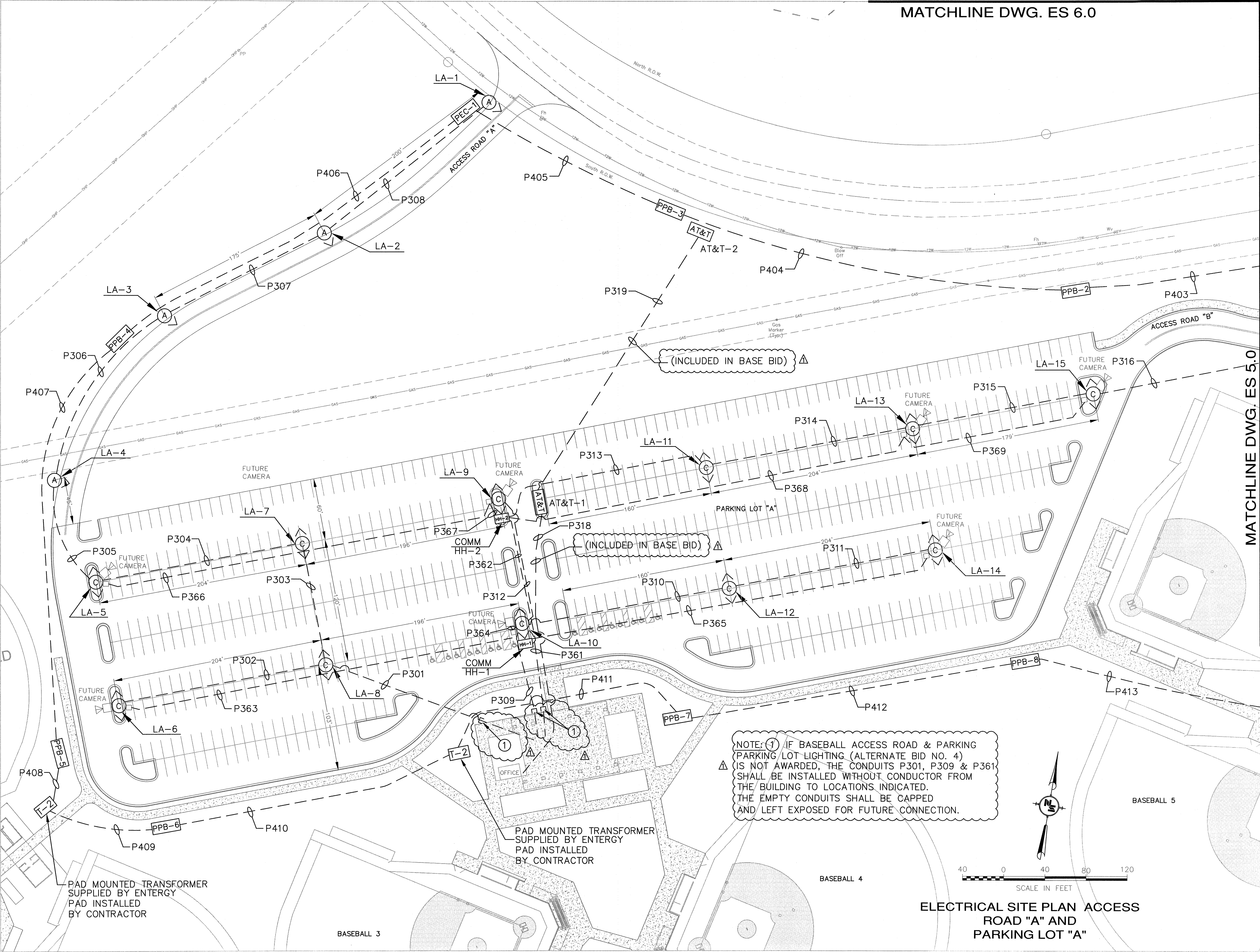
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ELECTRICAL SITE PLANS
KEY MAP

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

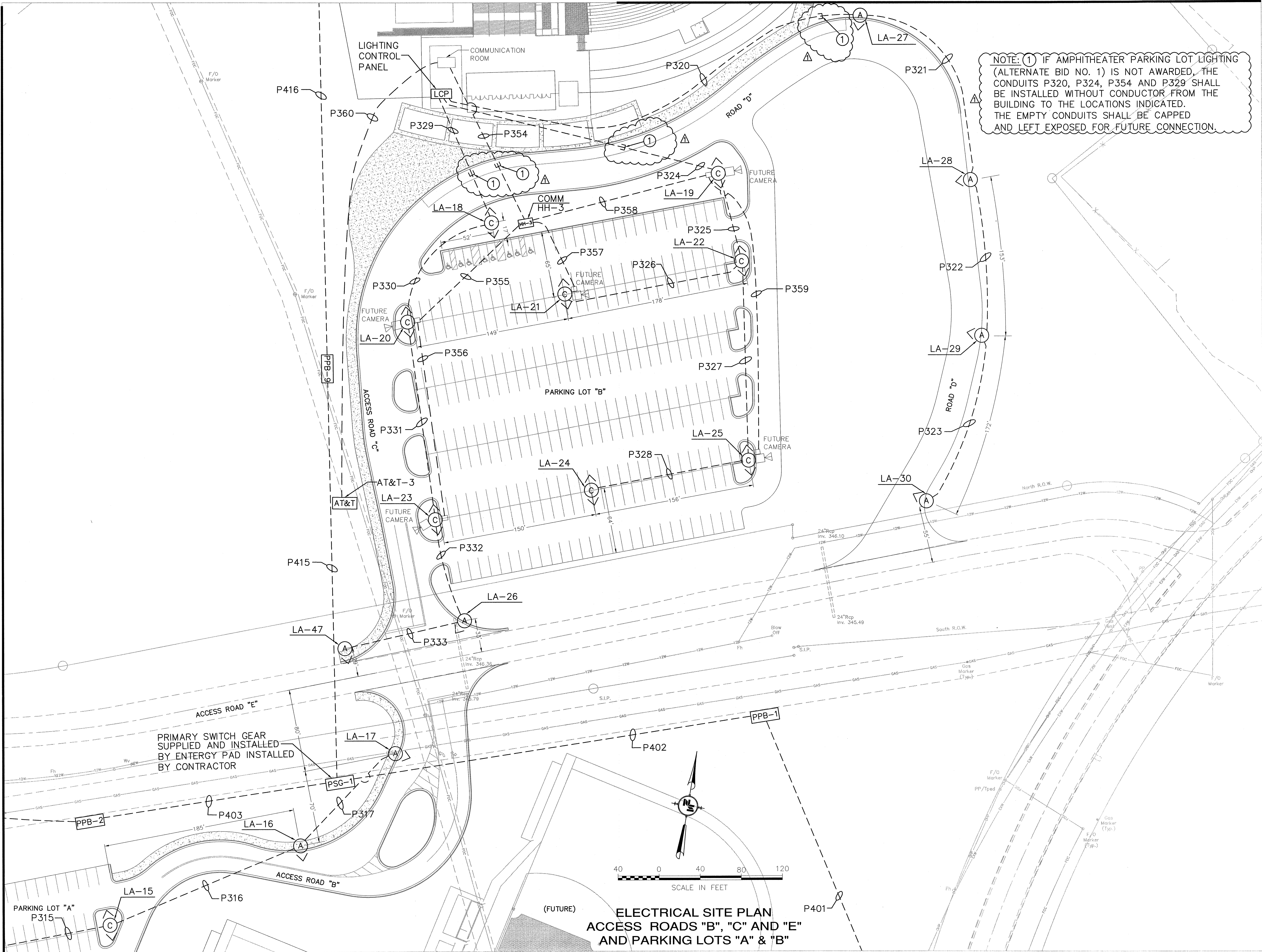
CITY OF BRANDON
BRANDON, MISSISSIPPI

MATCHLINE DWG. ES 5.0



MATCHLINE DWG. ES 4.0

12779-Elec-Siteplan-6a.dwg



NOTE: ① IF AMPHITHEATER PARKING LOT LIGHTING (ALTERNATE BID NO. 1) IS NOT AWARDED, THE CONDUITS P320, P324, P354 AND P329 SHALL BE INSTALLED WITHOUT CONDUCTOR FROM THE BUILDING TO THE LOCATIONS INDICATED. THE EMPTY CONDUITS SHALL BE CAPPED AND LEFT EXPOSED FOR FUTURE CONNECTION.

ELECTRICAL SITE PLAN
ACCESS ROADS "B", "C" AND "E"
AND PARKING LOTS "A" & "B"

WIER BOERNER ALLIN
ARCHITECTURE

2906 N.STATE STREET, SUITE 106
JACKSON, MISSISSIPPI 39216

P:601.321.9107 F:601.321.9108

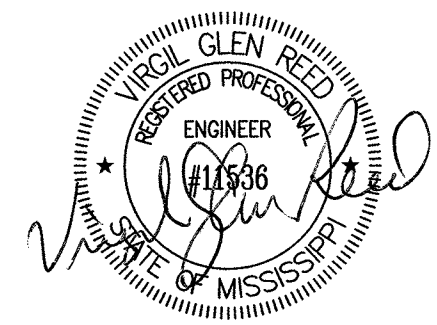
NEEL-SCHAFFER
Solutions you can build upon

125 S. CONGRESS ST. SUITE 1100
JACKSON, MISSISSIPPI 39201

P:601.948.3071 F:601.948.3178

RANKIN TRAILS
AMPHITHEATER &
BASEBALL PARK

CITY OF BRANDON
BRANDON, MISSISSIPPI



17 JUNE 2016

CONSTRUCTION
DOCUMENTS

WBA #:
2215 / 2315
NSI #:
12779/12780

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	07/08/16

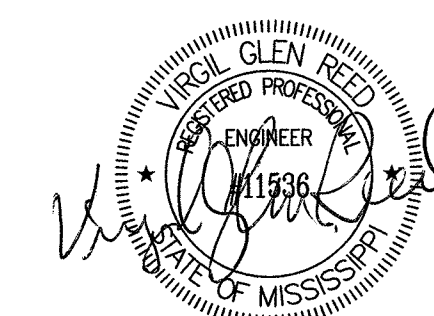
ES 5.0

ELECTRICAL SITE PLAN
ACCESS ROADS "B", "C" AND "E"
AND PARKING LOT "A"

CITY OF BRANDON
BRANDON, MISSISSIPPI

NOTE: ① IF AMPHITHEATER VIP ACCESS ROAD AND PARKING LOT LIGHTING (ALTERNATE BID NO. 2) IS NOT AWARDED, THE CONDUITS P335, P339 AND P344 SHALL BE INSTALLED WITHOUT CONDUCTOR FROM THE BUILDING TO THE LOCATIONS INDICATED. THE EMPTY CONDUITS SHALL BE CAPPED AND LEFT EXPOSED FOR FUTURE CONNECTION.

**ELECTRICAL SITE PLAN
ACCESS ROAD "C"
AND PARKING LOTS "C" & "E"**



CONSTRUCTION
DOCUMENTS

WBA #:
2215 / 2315
NSI #:
12779/12780

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	07/08/16

ELECTRICAL SITE PLAN
ACCESS ROAD "C"
AND PARKING LOTS "C"&"E"