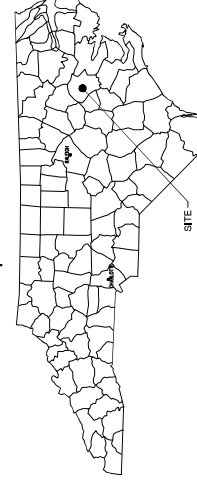
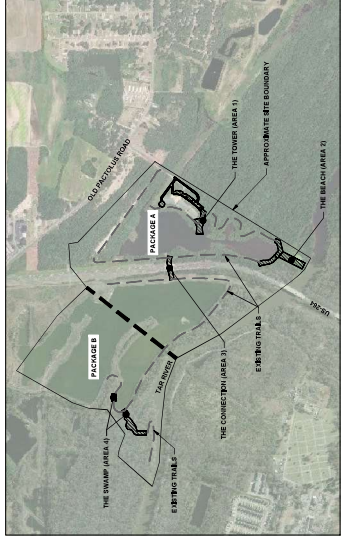


# CONSTRUCTION DRAWINGS FOR BID FOR WILDWOOD PARK - TOWER AND TRAILS

**BID PACKAGE A  
CITY OF GREENVILLE  
RECREATION & PARKS DEPARTMENT  
2000 CEDAR LANE  
GREENVILLE, NC 27858  
PITT COUNTY**

OVERALL SITE DATA	
MUNICIPALITY:	CITY OF GREENVILLE
OWNER:	CITY OF GREENVILLE, NC 27858
LAND USE CLASSIFICATION:	RECREATIONAL/ENTERTAINMENT
TOTAL PARCEL ACRES:	58.85 ACRES
TOTAL PARCEL ACRES:	58.85 ACRES
PROPOSED TOWER FLOOR AREA:	1,023,352 SQ. FEET
PROPOSED TOWER HEIGHT:	128 FEET (2 STORES)
TOTAL PARKING:	N/A
TOTAL ACCESSIBLE PARKING:	N/A
TOTAL AREA DISTURBED:	143 ACRES
CHIEF ENGINEER:	32,460 (2007 DATE)
TOTAL IMPROVABLE AREA:	157,252 SF (347 ACRES)
WATERBODIES:	JOHNSON MILWAUKEE CREEK / JOHNSON MILWAUKEE WATERSHED

PARCEL DATA					
PARCEL:	1	2	3	4	5
NORTH:	488725454	488845485	488845218	488832090	488832090
PARCEL NUMBER:	087024	070254	02474	02474	02474
LEGAL DESCRIPTION:	LOT 135, TRACT 10, CITY OF GREENVILLE, NC 27858	LOT 135, TRACT 10, CITY OF GREENVILLE, NC 27858	LOT 135, TRACT 10, CITY OF GREENVILLE, NC 27858	LOT 135, TRACT 10, CITY OF GREENVILLE, NC 27858	LOT 135, TRACT 10, CITY OF GREENVILLE, NC 27858
DEED REFERENCE:	DR. 048474.351	DR. 048474.351	DR. 048474.351	DR. 048474.351	DR. 048474.351
CROSS TRACT:	509	509	509	509	509
APPROXIMATE IMPROVABLE AREA:	309 AC	609 AC	609 AC	609 AC	609 AC



## PROJECT DESIGN TEAM

**OWNER/DEVELOPER**  
CITY OF GREENVILLE  
GREENVILLE RECREATION & PARKS DEPARTMENT  
2000 CEDAR LANE  
GREENVILLE, NC 27858  
CONTACT: JEREMY R. HAMM, AEP  
EMAIL: JHAMM@FALCOVENINGERS.COM

**OWNER/DEVELOPER**  
CITY OF GREENVILLE  
GREENVILLE RECREATION & PARKS DEPARTMENT  
2000 CEDAR LANE  
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2000 CEDAR LANE  
GREENVILLE, NC 27858  
CONTACT: JEREMY R. HAMM, AEP  
EMAIL: JHAMM@FALCOVENINGERS.COM

**LANDSCAPE ARCHITECT**  
WILKIE+HORN & ASSOCIATES, INC.  
427 FAVETTEVILLE STREET  
RALEIGH, NC 27601  
CONTACT: JEREMY R. HAMM, P.E.  
EMAIL: JHAMM@WILKIEHORNS.COM

**CIVIL ENGINEER**  
WILKIE+HORN & ASSOCIATES, INC.  
427 FAVETTEVILLE STREET  
RALEIGH, NC 27601  
CONTACT: JOHN KUZERSKI, P.E.  
EMAIL: JOHN.KUZERSKI@WILKIEHORNS.COM

**GEOTECHNICAL ENGINEER**  
FALCON ENGINEERING, INC.  
300 SOUTH MAIN STREET  
CARY, NC 27513  
CONTACT: JEREMY R. HAMM, P.E.  
EMAIL: JHAMM@FALCOVENINGERS.COM

**STRUCTURAL ENGINEER**  
WILKIE+HORN & ASSOCIATES, INC.  
427 FAVETTEVILLE STREET  
RALEIGH, NC 27601  
CONTACT: JEREMY R. HAMM, P.E.  
EMAIL: JHAMM@WILKIEHORNS.COM

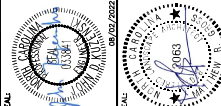
**ARCHITECT**  
MATT@MATTSTUDIOCS.COM  
CONTACT: MATT GREFFITH, PHA  
EMAIL: MATT@MATTSTUDIOCS.COM

SHEET NUMBER	SHEET TITLE
C10	GENERAL NOTES
C11	EXISTING CONDITIONS
C12	OVERALL DEMOLITION AND EROSION CONTROL PLAN
C13	DEMOLITION AND PH1 EROSION CONTROL - THE TOWER
C14	DEMOLITION AND PH1 EROSION CONTROL - THE BEACH
C15	DEMOLITION AND PH1 EROSION CONTROL - THE CONNECTION
C16	OVERALL SITE PLAN
C17	PLAN AND PROFILE - THE TOWER (AREA 1)
C18	PLAN AND PROFILE - THE BEACH (AREA 2)
C19	PLAN AND PROFILE - THE BEACH (AREA 2)
C20	PLAN AND PROFILE - THE CONNECTION (AREA 3)
C21	EROSION CONTROL DETAILS
C22	EROSION CONTROL DETAILS
C23	BRIDGE GENERAL NOTES
C24	BRIDGE GENERAL NOTES
C25	STRUCTURE LOCATIONS
C26	PLAN AND PROFILE - THE BEACH (AREA 2)
C27	PLAN AND PROFILE - THE BEACH (AREA 2)
C28	PLAN AND PROFILE - THE BEACH (AREA 2)
C29	BRIDGE END BENT DETAILS
C30	BRIDGE END BENT DETAILS
C31	PREPARED PRELIMINARY BRIDGE DETAILS
C32	TRUSS BRIDGE GENERAL NOTES
C33	TRUSS BRIDGE GENERAL NOTES
C34	TRUSS BRIDGE GENERAL NOTES
C35	TRUSS BRIDGE GENERAL NOTES
C36	TRUSS BRIDGE GENERAL NOTES
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C99	TRUSS BRIDGE GENERAL NOTES
C100	TRUSS BRIDGE GENERAL NOTES

**WILDWOOD PARK -  
TOWER AND TRAILS  
BID PACKAGE A  
PREPARED FOR  
CITY OF GREENVILLE**

**COVER SHEET**

DATE: 08/02/2022  
SCALE: AS SHOWN  
DESIGNED BY: MSH  
DRAWN BY: ASK  
CHECKED BY: JMK



**Kimley-Horn**  
421 FAVETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
PHONE: 919-871-2000 FAX: 919-871-77-2050  
WWW.KIMLEY-HORN.COM #1-012

No.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	MSA

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No.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA

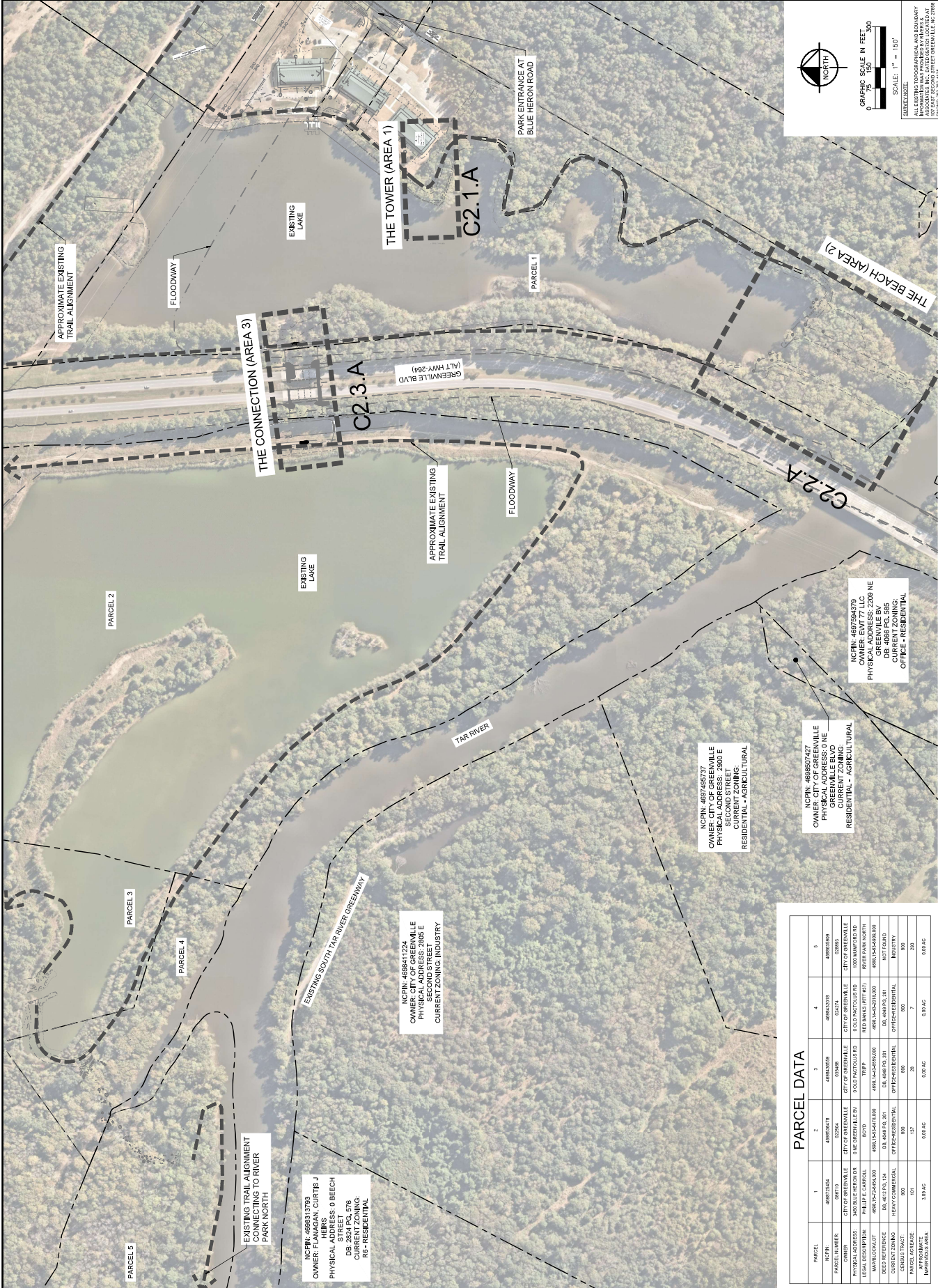
**Kimley-Horn**  
 # - 0102  
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
 PHONE: 919-877-2000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM

PROJECT: KHA PROJECT  
 DATE: 08/02/2022  
 SCALE: AS SHOWN  
 DRAWN BY: MFC  
 CHECKED BY: YSA

**OVERALL  
 DEMOLITION AND  
 EROSION CONTROL  
 PLAN**

WILDWOOD PARK -  
 TOWER AND TRAILS  
 BID PACKAGE A  
 PREPARED FOR  
 CITY OF GREENVILLE  
 GREENVILLE  
 NC

SHEET NUMBER  
**C2.0.A**



ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY THE CLIENT AT 107 EAST SECOND STREET GREENVILLE, NC 27004  
 DATE: 08/02/2022

**PARCEL DATA**

PARCEL	1	2	3	4	5
NCPIN:	488513753	488540718	488540650	488522710	488520000
OWNER:	THE CURTIS J. HERS	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE
PHYSICAL ADDRESS:	0 BEECH TREE DR 2500 E	5 NE GREENVILLE BLVD	5 OLD FACTORY RD	5 OLD FACTORY RD	1000 NUMBERS RD
LEGAL DESCRIPTION:	PHILIP S CARROLL TRUST	BOYD	TRIPP	RED BANKS (PT 1ST)	MEER PARK NORTH
REGULATORY:	RS - RESIDENTIAL	RS - RESIDENTIAL	RS - RESIDENTIAL	RS - RESIDENTIAL	RS - RESIDENTIAL
CURRENT ZONING:	RS - RESIDENTIAL	OFFICE/RESIDENTIAL	OFFICE/RESIDENTIAL	OFFICE/RESIDENTIAL	INDUSTRY
ACRES:	8.00	8.00	2.00	8.00	8.00
PARCEL ACRES:	1.91	1.17	2.00	0.80 AC	2.00
IMPROVEMENTS:	1.91 AC	0.80 AC	0.00 AC	0.80 AC	0.00 AC

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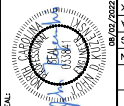




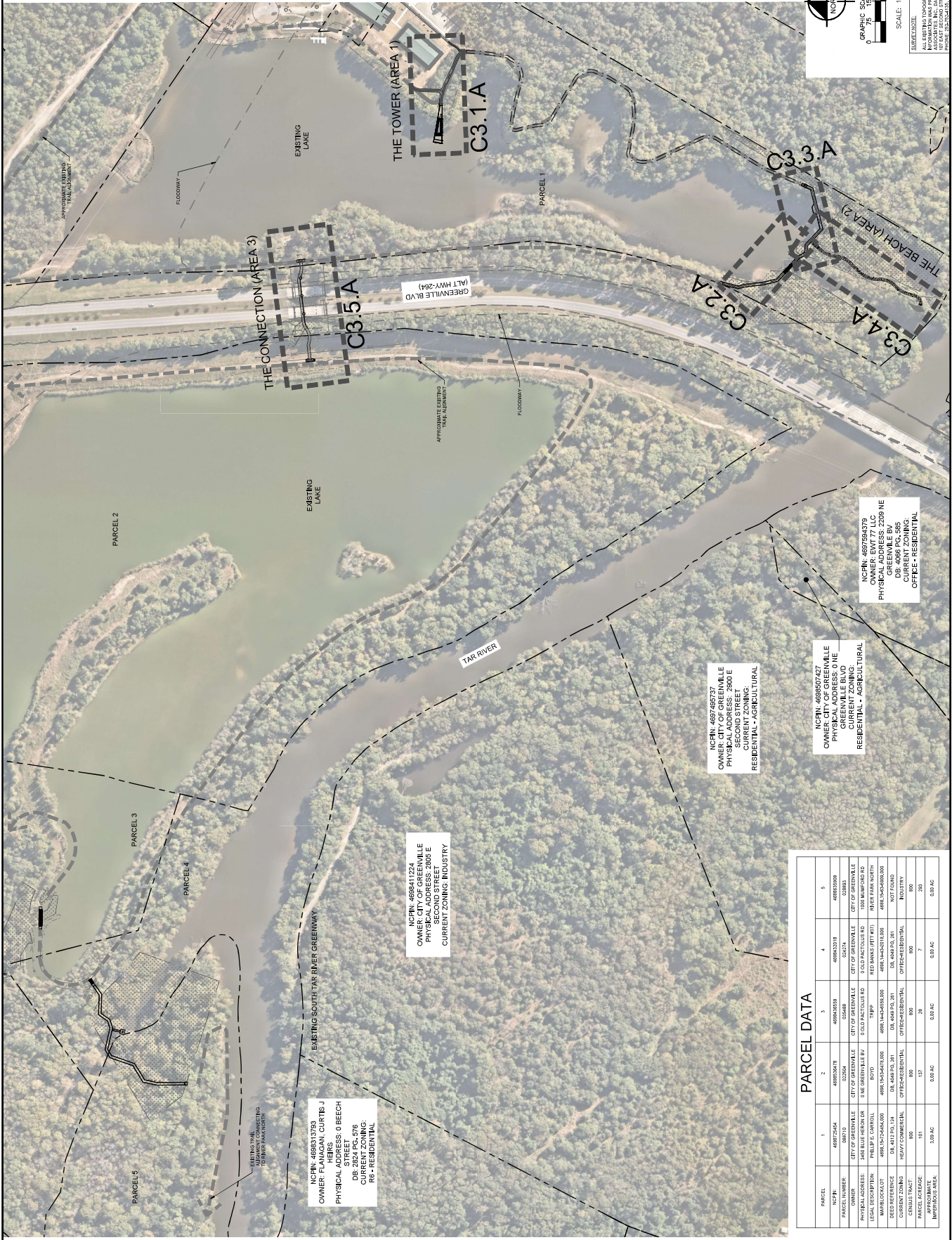
NO.	ISSUED FOR BID	REVISIONS	DATE	BY
1			08/02/22	MSA

**Kimley-Horn**

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 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
 PHONE: 919-877-5000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM #-0102



KHA PROJECT 012534010  
 DATE 08/02/2022  
 DESIGNED BY MFC  
 DRAWN BY MSA  
 CHECKED BY JDP  
 08/02/2022



**GRAPHIC SCALE IN FEET**  
 0 25 50 100

**SCALE: 1" = 150'**

**SOURCE NOTE:**  
 ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY PARCEL AT 10' GROUND SECOND STREET GREENVILLE, NC 27004

**PARCEL 1**  
 NCPIN: 4686319793  
 OWNER: FLANIGAN, CURTIS J  
 PHYSICAL ADDRESS: 0 BEECH STREET  
 DB: 2524 PG. 576  
 CURRENT ZONING: RG - RESIDENTIAL

**PARCEL 2**  
 NCPIN: 468507427  
 OWNER: CITY OF GREENVILLE  
 PHYSICAL ADDRESS: 2900 E SECOND STREET  
 CURRENT ZONING: RESIDENTIAL - AGRICULTURAL

**PARCEL 3**  
 NCPIN: 468411224  
 OWNER: CITY OF GREENVILLE  
 PHYSICAL ADDRESS: 2605 E SECOND STREET  
 CURRENT ZONING: INDUSTRY

**PARCEL 4**  
 NCPIN: 469768737  
 OWNER: CITY OF GREENVILLE  
 PHYSICAL ADDRESS: 2900 E SECOND STREET  
 CURRENT ZONING: RESIDENTIAL - AGRICULTURAL

**PARCEL 5**  
 NCPIN: 469768479  
 OWNER: EMT 77 LLC  
 PHYSICAL ADDRESS: 4006 PG. 585 GREENVILLE BLVD  
 CURRENT ZONING: OFFICE - RESIDENTIAL

**PARCEL DATA**

PARCEL	1	2	3	4	5
NCPIN	4686319793	468507427	468411224	469768737	469768479
PARCEL NUMBER	080110	02044	05488	04274	02053
CITY	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE
PHYSICAL ADDRESS	3400 BLUE HERON DR	5 NE GREENVILLE	5 OLD FACTORY RD	1000 NUMBERS RD	1000 NUMBERS RD
LEGAL DESCRIPTION	PHILIP S CARROLL	BOYD	TRIPP	RED BANKS (PT 1ST)	RED BANKS (PT 1ST)
RECORD ID	168-200-0000	168-200-0000	168-200-0000	168-200-0000	168-200-0000
CURRENT ZONING	HEAVY COMMERCIAL	OFFICE/RESIDENTIAL	OFFICE/RESIDENTIAL	OFFICE/RESIDENTIAL	INDUSTRY
GENESIS TRACT	800	800	28	7	280
PARCEL AREA (AC)	1.09 AC	0.00 AC	0.00 AC	0.00 AC	0.00 AC





**SITE LEGEND**

[Symbol]	EXISTING CONTOUR
[Symbol]	WATER EDGE LINE
[Symbol]	LIMITS OF DISTURBANCE
[Symbol]	SET-FENCE
[Symbol]	FIELD-WALK-PATH
[Symbol]	WETLAND
[Symbol]	PRECAST/CONCRETE BRIDGE
[Symbol]	BOARDWALK
[Symbol]	CONCRETE SPRAWL
[Symbol]	MEAN WATER LEVEL
[Symbol]	TEMPORARY HEAVY DUTY GRAVEL

- SITE CONSTRUCTION SEQUENCE**
1. THE FOLLOWING PHASE CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
  2. BEGIN WITH MAINTENANCE OF EXISTING AND TRAILS, MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
  3. CONSTRUCT BOARDWALK, PRECAST/CONCRETE BRIDGES, AND PROPOSED BRIDGES AS SHOWN ON PLANS.
  4. MAINTAIN EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION TO STABILIZE ALL DISTURBED AREAS AND STREAM BANK SLOPES USING EROSION CONTROL MATTING, SEEDING, AND MULCH TO MAINTAIN A COVER THROUGHOUT THE CONSTRUCTION PERIOD.
  5. UPON RECEIPT OF BUILDING PERMIT, CONSTRUCT OBSERVATION TOWER AS SHOWN ON ARCHITECTURAL PLANS. CONTRACTOR TO PROVIDE CONSTRUCTION SEQUENCE FOR CRANE ACCESS AND OTHER TRAILS AND WALK LANS DOWN AREA.
  6. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY MAJOR EVENT OF 1/2" OR GREATER OR EVERY 7(1) CALENDAR DAYS.
  7. REMOVE TEMPORARY CONSTRUCTION ACCESS UPON PROJECT COMPLETION.
  8. REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AS NECESSARY TO RESTORE ORIGINAL EROSION CONTROL MEASURES.
  9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE DISTRICT ENGINEER.
  10. REMOVE ALL TEMPORARY CONSTRUCTION ACCESS WITH THE EXCEPTION OF TRAILS AND BOARDWALKS, MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
- NOTES**
1. REFER TO THE SHEET, EROSION CONTROL DETAILS AND GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE AND SEEDING PREPARATION.
  2. THE PROPOSED CONSTRUCTION FROM PREVIOUS PLANS TO PROVIDE CONSTRUCTION SEQUENCE TO BE PROVIDED BY THE ARCHITECT AND ASSOCIATES WITH THE ADVENTURE PARK LANDSCAPE ARCHITECTS ATTACHED TO THIS PROJECT. THE PROPOSED CONSTRUCTION FROM PREVIOUS PLANS TO PROVIDE CONSTRUCTION SEQUENCE TO BE PROVIDED BY THE ARCHITECT AND ASSOCIATES WITH THE ADVENTURE PARK LANDSCAPE ARCHITECTS ATTACHED TO THIS PROJECT.

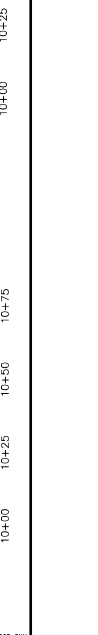
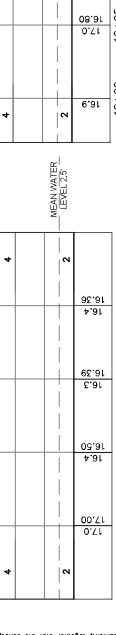
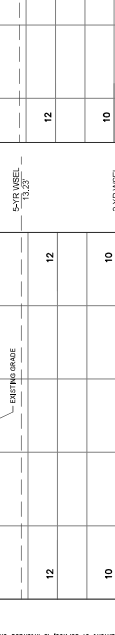
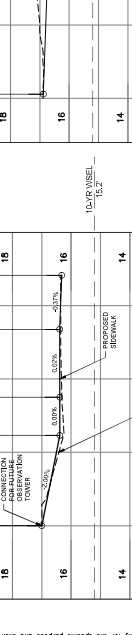
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 CHECKED BY: JSM  
 DRAWN BY: YSA  
 DESIGNED BY: MFC  
 SCALE AS SHOWN  
 DATE: 08/02/2022  
 012554010  
 KHA PROJECT

GREENVILLE  
 CITY OF GREENVILLE  
 TOWER AND TRAILS  
 BID PACKAGE A  
 PREPARED FOR  
 THE TOWER (AREA 1)

SHEET NUMBER  
**C3.1.A**

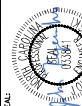
WILDWOOD PARK -  
 TOWER AND TRAILS  
 BID PACKAGE A  
 PREPARED FOR  
 THE TOWER (AREA 1)

NO. 1  
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NO.	ISSUED FOR	REVISIONS	DATE	BY
1			08/02/22	YSA

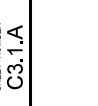
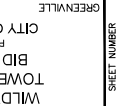
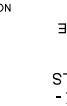
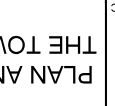
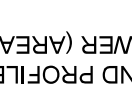
**Kimley-Horn**  
 #1-0102  
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
 PHONE: 919-200-8500 FAX: 919-477-2050  
 WWW.KIMLEY-HORN.COM



GREENVILLE  
 CITY OF GREENVILLE  
 TOWER AND TRAILS  
 BID PACKAGE A  
 PREPARED FOR  
 THE TOWER (AREA 1)

SHEET NUMBER  
**C3.1.A**

WILDWOOD PARK -  
 TOWER AND TRAILS  
 BID PACKAGE A  
 PREPARED FOR  
 THE TOWER (AREA 1)



NO.	ISSUED FOR	REVISIONS	DATE	BY
1			08/02/22	YSA

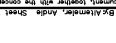
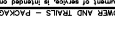
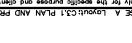
**Kimley-Horn**  
 #1-0102  
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
 PHONE: 919-200-8500 FAX: 919-477-2050  
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GREENVILLE  
 CITY OF GREENVILLE  
 TOWER AND TRAILS  
 BID PACKAGE A  
 PREPARED FOR  
 THE TOWER (AREA 1)

SHEET NUMBER  
**C3.1.A**

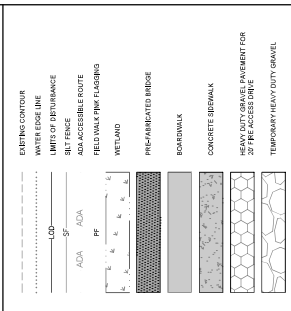
WILDWOOD PARK -  
 TOWER AND TRAILS  
 BID PACKAGE A  
 PREPARED FOR  
 THE TOWER (AREA 1)





Know what's below.  
Call before you dig.

**SITE LEGEND**

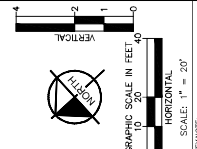
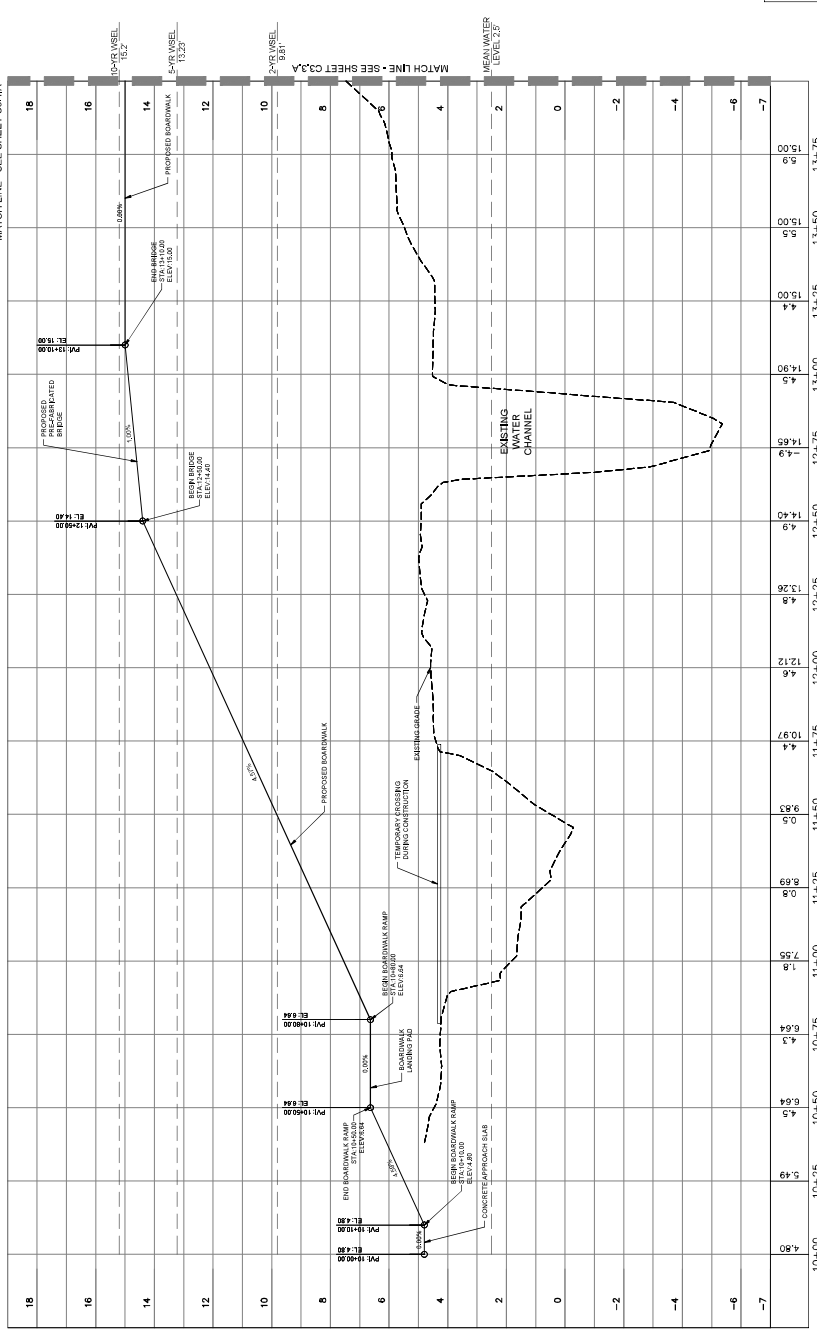
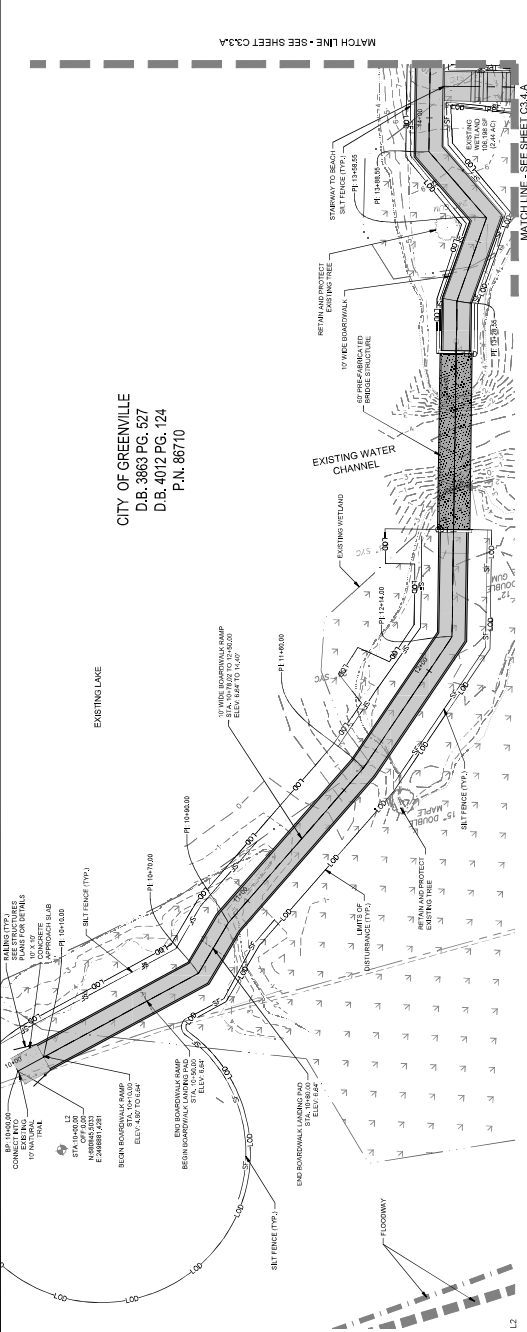


**RAISE & CONSTRUCTION SEQUENCE**

1. THE FOLLOWING RAISE & CONSTRUCTION SEQUENCE IS SUBMITTED AS A GUIDE FOR PREPARATION OF A SCHEDULE OF CONSTRUCTION EVENTS.
1. BEGIN WALK GRADING OF PROPOSED BRIDGES AND TRAILS.
2. BEGIN WALK GRADING OF PROPOSED BRIDGES AND TRAILS.
3. PREPARE BRIDGES AND TRAILS.
4. PREPARE BRIDGES AND TRAILS.
5. PREPARE BRIDGES AND TRAILS.
6. PREPARE BRIDGES AND TRAILS.
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12. PREPARE BRIDGES AND TRAILS.
13. PREPARE BRIDGES AND TRAILS.
14. PREPARE BRIDGES AND TRAILS.
15. PREPARE BRIDGES AND TRAILS.
16. PREPARE BRIDGES AND TRAILS.

1. REFER TO THIS SHEET, SHEET CONTROL, DETAILS SHEETS AND ADJACENT SHEETS FOR ALL NOTES AND SPECIFICATIONS.
2. REFER TO THIS SHEET, SHEET CONTROL, DETAILS SHEETS AND ADJACENT SHEETS FOR ALL NOTES AND SPECIFICATIONS.
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16. REFER TO THIS SHEET, SHEET CONTROL, DETAILS SHEETS AND ADJACENT SHEETS FOR ALL NOTES AND SPECIFICATIONS.

CITY OF GREENVILLE  
D.B. 3863 PG. 527  
D.B. 4012 PG. 124  
P.N. 86710



GRAPHIC SCALE IN FEET  
0 10 20 30 40  
VERTICAL  
SCALE: 1" = 20'

SUBJECT: WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

PROJECT: WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

DATE: 08/02/2022  
SCALE: AS SHOWN

CHECKED BY: JSM  
DESIGNED BY: JSM  
SCALE: AS SHOWN

PROJECT: WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

DATE: 08/02/2022  
SCALE: AS SHOWN

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SCALE: AS SHOWN

PROJECT: WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

DATE: 08/02/2022  
SCALE: AS SHOWN

CHECKED BY: JSM  
DESIGNED BY: JSM  
SCALE: AS SHOWN

PROJECT: WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

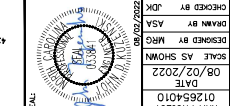
DATE: 08/02/2022  
SCALE: AS SHOWN

CHECKED BY: JSM  
DESIGNED BY: JSM  
SCALE: AS SHOWN

PROJECT: WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

No.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	AS

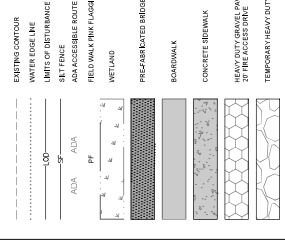
Kimley-Horn & Associates, Inc.  
421 Fayetteville Street, Suite 600, Raleigh, NC 27601  
919-877-2000 FAX 919-437-7290  
www.kimley-horn.com # - 0102



WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

PROJECT: WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A  
CITY OF GREENVILLE

**SITE LEGEND**

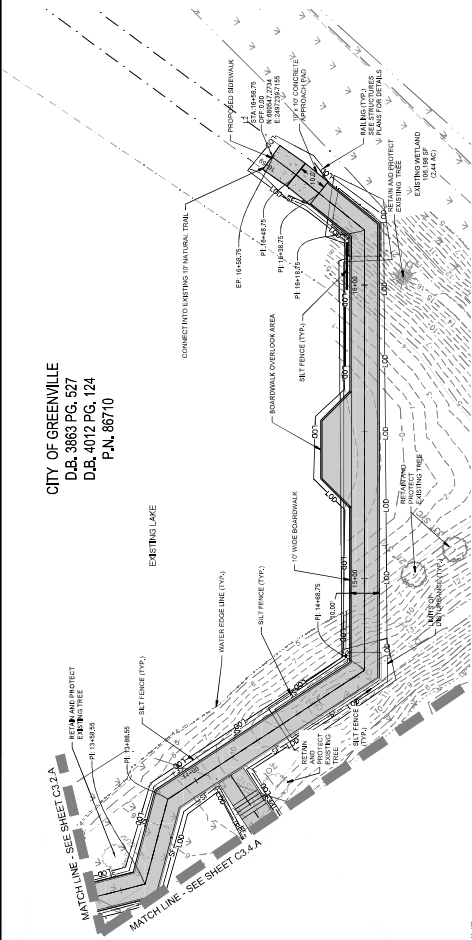
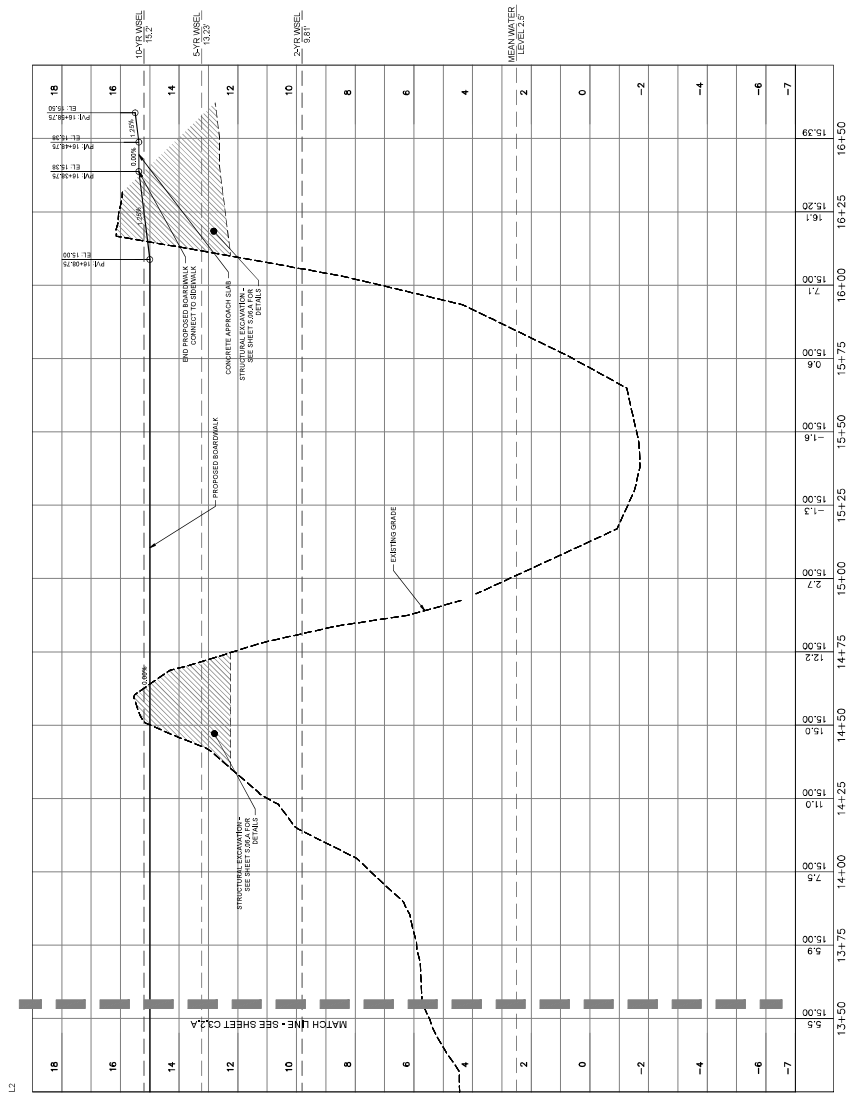


**PHASE I CONSTRUCTION REQUIREMENTS**

- THE FOLLOWING PHASE I CONSTRUCTION SEQUENCE IS SUBMITTED AS A GENERAL GUIDE FOR PREPARATION OF A RECORD OF CONSTRUCTION EVENT.
- BEGIN MAJOR GRADING OF PROPOSED BOARDWALKS AND TRAILS.
- INSTALL BRIDGES AND PRECAST/ASPHALT BRIDGES, AND
- PROPOSED BOARDWALKS AS SHOWN ON PLANS.
- WALL IMPROVEMENTS ARE BEING INSTALLED. CONSTRUCTION IS TO BE STOPPED IMMEDIATELY UPON DETECTION OF ANY OBSTRUCTIONS TO PROPOSED BOARDWALKS AND TRAILS. CONTRACTOR TO REPORT AS SHOWN ON ARCHITECTURAL PLANS. CONTRACTOR TO OBTAIN APPROVAL FOR ANY CHANGES TO THE PLANS BEFORE ANY OPERATIONS IN MATERIAL LAPOORWY AREA.
- UPON RECEIPT OF BUILDING PERMIT, CONTRACTOR TO DEMOLISH AND REPAIR BOARDWALK CONTROL MEASURE AFTER EVERY DAY.
- REMOVE ALL TEMPORARY CONSTRUCTION ACCESSES UPON PROJECT COMPLETION.
- REMOVE ALL TEMPORARY CONSTRUCTION ACCESSES UPON PROJECT COMPLETION.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE ESTABLISHED COMPLETELY, CALL INSPECTORS FOR INSPECTION.
- STABLE FIVE FEET TO SIX FEET DEEP CHANNELS, MEASURE AND REEF OR REPAIR FIVE FEET TO SIX FEET DEEP CHANNELS.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY INSPECTOR.
- ALL VEGETATION TO BE REPLANTED AND MAINTAINED FOR A MINIMUM OF 90 DAYS.
- ALLOWANCES WITH THE INSPECTOR AND RECORDING CONTROL, AND CITY OF GREENVILLE REGIONAL CONTROL, BOARDWALKS, AND TRAILS.

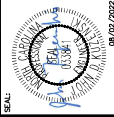
**NOTES**

- REFER TO THE SHEET, EROSION CONTROL, DETAILS SHEETS AND SCHEDULE.
- AND MAINTENANCE AND SCHEDULE PREPARATION AND SCHEDULE.



CITY OF GREENVILLE D.B. 3863 PG. 527 D.B. 4012 PG. 124 P.N. 86710	
NO.	1
ISSUED FOR BID	08/02/22
REVISIONS	
DATE	
BY	

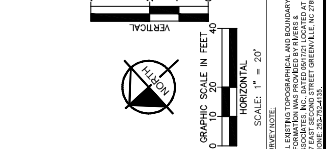
**Kimley»Horn**  
 421 KIMLEY-HORN AND ASSOCIATES, INC.  
 27601  
 P.O. BOX 2706  
 27060  
 RALEIGH, NC 27602  
 PHONE: 919-877-2000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM  
 #1-012



**KHA PROJECT**  
 012501010  
 DATE: 08/02/2022  
 REVISION: AS SHOWN  
 DRAWN BY: ASJ  
 CHECKED BY: JDP  
 08/02/2022

**WILDWOOD PARK - TOWER AND TRAILS BID PACKAGE A PREPARED FOR CITY OF GREENVILLE GREENVILLE NC 27901**

**PLAN AND PROFILE - THE BEACH (AREA 2)**



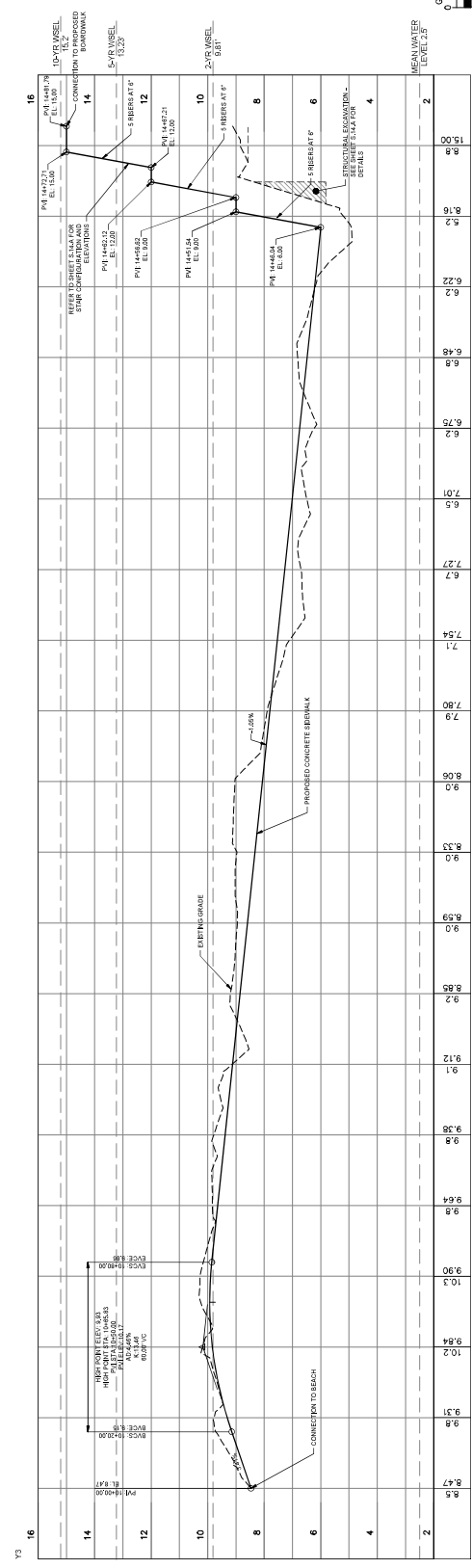
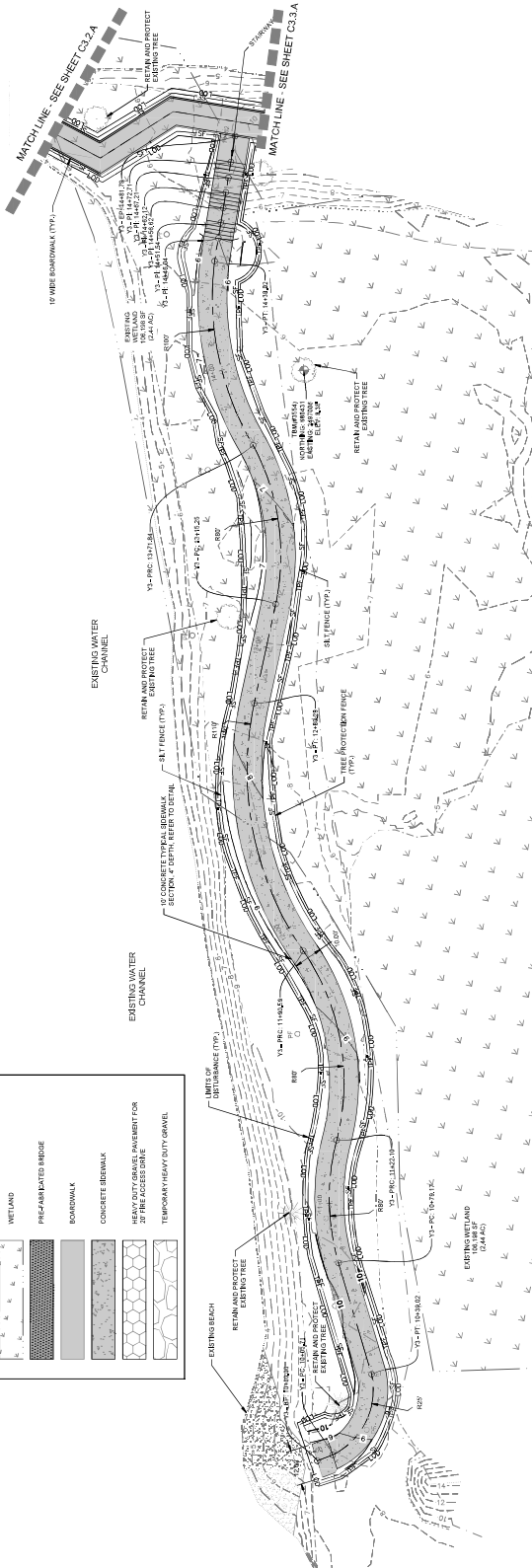
GRAPHIC SCALE IN FEET:  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 2'  
 SOURCE: ASSESSMENT PROVIDED BY THE CITY OF GREENVILLE, NC 27901

SHEET NUMBER  
**C3.3.A**



Know what's below.  
Call before you dig.

SITE LEGEND	
	EXISTING CONTOUR
	UTILITY
	SIDEWALK
	ADA ACCESSIBLE ROUTE
	FIELD WALK PATH FLAGGING
	RETAINING WALL
	PRECAST AGGREGATE BRIDGE
	BONEWALK
	CONCRETE SIDEWALK
	HEAVY DUTY GRAVEL PAVEMENT FOR ACCESSIBLE ROUTE
	TEMPORARY HEAVY DUTY GRAVEL



STATION	ELEVATION
10+00	8.4
10+25	8.8
10+50	9.2
10+75	9.6
11+00	10.0
11+25	10.4
11+50	10.8
11+75	11.2
12+00	11.6
12+25	12.0
12+50	12.4
12+75	12.8
13+00	13.2
13+25	13.6
13+50	14.0
13+75	14.4
14+00	14.8
14+25	15.2
14+50	15.6
14+75	16.0



GRAPHIC SCALE IN FEET  
0 10 20 30 40  
VERTICAL  
SCALE: 1" = 20'

ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY THE CLIENT AT 107 EAST SECOND STREET GREENVILLE, NC 27601

SHEET NUMBER  
**C3.4.A**

WILDWOOD PARK -  
TOWER AND TRAILS  
BID PACKAGE A  
PREPARED FOR  
CITY OF GREENVILLE

PLAN AND PROFILE -  
THE BEACH (AREA 2)

KHA PROJECT  
012554010  
DATE  
08/02/2022  
SCALE AS SHOWN  
DESIGNED BY MFC  
CHECKED BY YSA  
BRANN BY JDP  
08/02/2022



**Kimley-Horn**  
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
PHONE: 919-877-2000 FAX: 919-877-2050  
WWW.KIMLEY-HORN.COM  
#1-012

- TABLE 1. CONSTRUCTION SEQUENCE
- THE FOLLOWING PHASE 2 CONSTRUCTION SEQUENCE IS FURNISHED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SEQUENCE FOR THE PROJECT.
1. BEGIN MAINTENANCE OF EXISTING SIDEWALKS AND TRAILS.
  2. CONSTRUCT SIDEWALKS, PRECAST AGGREGATE BRIDGES, AND PROPOSED SIDEWALKS AS SHOWN ON PLANS.
  3. MAINTAIN EXISTING SIDEWALKS AND TRAILS AS MUCH AS POSSIBLE THROUGHOUT THE PROJECT. REPAIR AND MAINTAIN AS NECESSARY TO MAINTAIN A SAFE AND ACCESSIBLE ROUTE.
  4. UPON RECEIPT OF BUILDING PERMIT, CONSTRUCT OBSERVATION POINTS AND STATION MARKS. SELECT THE LOCATION OF ACCESS AND OPERATING AND NATIONAL LANDMARK AREA.
  5. INSTALL EROSION CONTROL MEASURES AS NECESSARY TO CONTROL EROSION.
  6. MAINTAIN ACCESS TO ALL AREAS TO BE MAINTAINED THROUGHOUT THE PROJECT.
  7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL IN THE INSPECTOR FOR INSPECTION.
  8. FURNISH ANY NECESSARY SIGNAGE, MEASUREMENTS AND USED OR REUSED MATERIALS TO THE INSPECTOR.
  9. WHEN VISITATIONS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE INSPECTOR.
  10. ACCORDANCE WITH THE ACCORDS BETWEEN THE CONTRACTOR AND THE CITY OF GREENVILLE FOR EROSION CONTROL, OPERATING AND NATIONAL LANDMARK AREA.

NOTE:  
1. REFER TO THE SHEET, BOUNDARY CONTROL SHEETS AND BOUNDARY CONTROL SHEETS FOR THE PROJECT PREPARATION AND RECORDING.

2. REFER TO THE SHEET, BOUNDARY CONTROL SHEETS AND BOUNDARY CONTROL SHEETS FOR THE PROJECT PREPARATION AND RECORDING.

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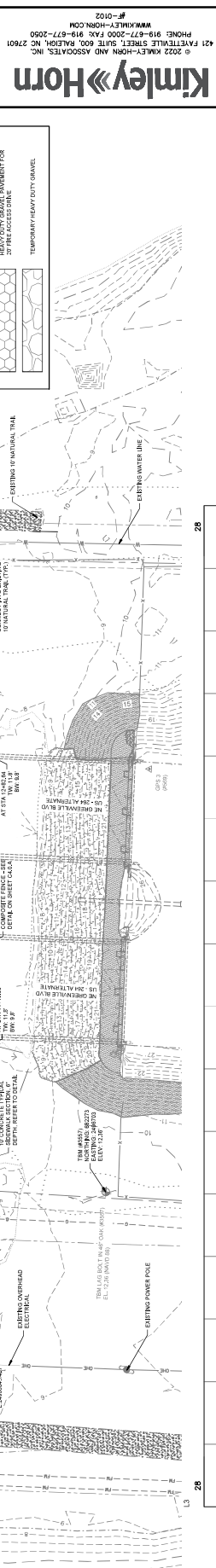
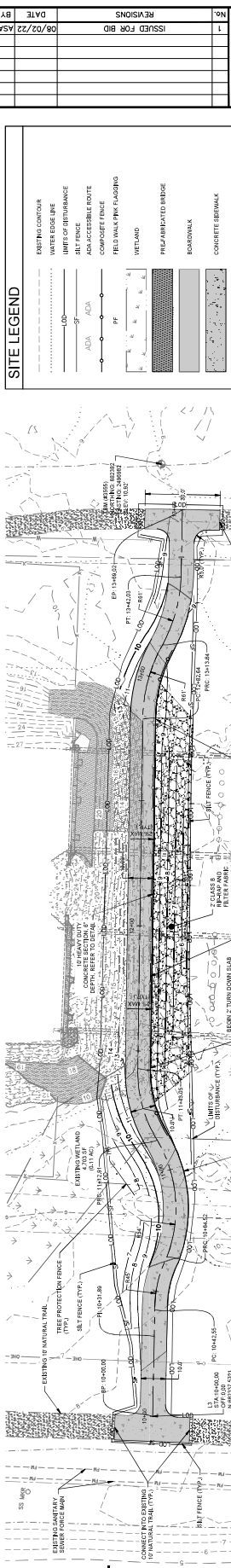
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40. REFER TO THE SHEET, BOUNDARY CONTROL SHEETS AND BOUNDARY CONTROL SHEETS FOR THE PROJECT PREPARATION AND RECORDING.



Know what's below.  
Call before you dig.



Station	Profile	Notes
10+00	8.4	NATURAL SURFACE
10+25	8.4	NATURAL SURFACE
10+50	8.4	NATURAL SURFACE
10+75	8.4	NATURAL SURFACE
11+00	8.4	NATURAL SURFACE
11+25	7.7	NATURAL SURFACE
11+50	9.1	NATURAL SURFACE
11+75	9.9	NATURAL SURFACE
12+00	12.0	NATURAL SURFACE
12+25	9.7	NATURAL SURFACE
12+50	8.8	NATURAL SURFACE
12+75	12.0	NATURAL SURFACE
13+00	9.9	NATURAL SURFACE
13+25	11.3	NATURAL SURFACE
13+50	10.8	NATURAL SURFACE
13+75	9.2	NATURAL SURFACE
14+00	8.4	NATURAL SURFACE

- PHASE 1 CONSTRUCTION SEQUENCE**
1. BEGIN MASS GRADING OF PROPOSED SIDEWALKS AND TRAILS. MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
  2. ALL UTILITIES ARE TO BE EXPOSED AND STRENGTH TESTED. VERIFY ALL UTILITIES ARE CORRECTLY LOCATED AND DEPTHS ARE AS SHOWN ON DRAWINGS. VERIFY ALL UTILITIES ARE PROTECTED AND TO REMAIN IN PLACE.
  3. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY 48 HOURS.
  4. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED, COMPLETELY CALL NEEDED INSPECTOR FOR INSPECTION.
  5. STABLE ANY RESULTING SOIL MATERIAL, MEASURES AND SEED OR PLANT ANY RESULTING SOIL MATERIAL.
  6. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL INSPECTION BY THE INSPECTOR.
  7. ACCORDING WITH THE NEEDED EROSION AND SEDIMENT CONTROL, ACCORDING WITH THE NEEDED EROSION AND SEDIMENT CONTROL, AND CITY OF GREENVILLE EROSION CONTROL ORDINANCE.

**WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A**  
CITY OF GREENVILLE

GREENVILLE  
SHEET NUMBER  
**C3.5.A**

SCALE: 1" = 20'

GRAPHIC SCALE IN FEET: 0 10 20 40

VERTICAL SCALE: 1" = 20'

INDEX

1. REFER TO THE SHEET EROSION CONTROL DETAILS, SHEETS AND NOTES FOR EROSION CONTROL MEASURES AND SEEDING PREPARATION AND SEEDING SCHEDULE.

**PLAN AND PROFILE - THE CONNECTION (AREA 3)**

CHIEF ENGINEER: JIMMY L. HORN, P.E.  
DESIGNED BY: MFC  
SCALE: AS SHOWN  
DATE: 08/02/2022  
PROJECT: KHA PROJECT 012501010

421 KIMLEY-HORN AND ASSOCIATES, INC.  
1916 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
PHONE: 919-877-5000 FAX: 919-877-77-2050  
WWW.KIMLEY-HORN.COM #1-800-421-0102

**811**  
Know what's below.  
Call before you dig.

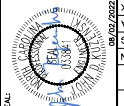
**SITE LEGEND**

- EXISTING CONTOUR
- WATER COURSE
- LIMIT OF JURISDICTION
- SETBACK
- ADA ACCESSIBLE ROUTE
- COMPOSITE FENCE
- FIELD WALK PINK FLAGGING
- WETLAND
- PHAS 1 ALTERNATE BRIDGE
- ROADWAY
- CONCRETE SIDEWALK
- HEAVY DUTY GRAVEL PAVEMENT FOR THE ACCESSIBLE
- TEMPORARY HEAVY DUTY GRAVEL

NO.	ISSUED FOR BID	REVISIONS	DATE	BY
1	08/02/22		YSA	

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	YSA

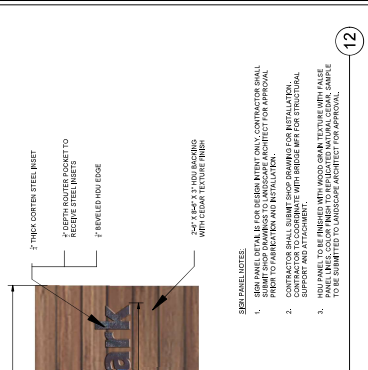
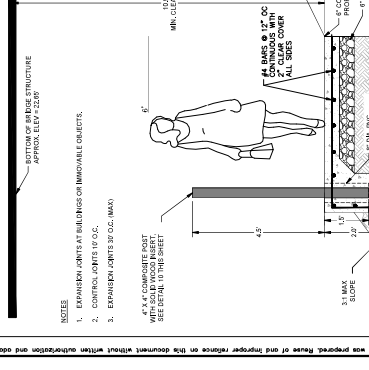
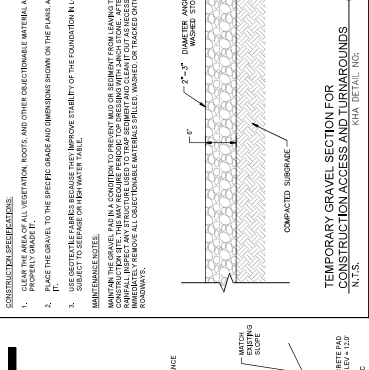
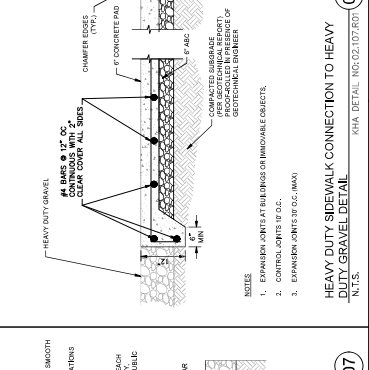
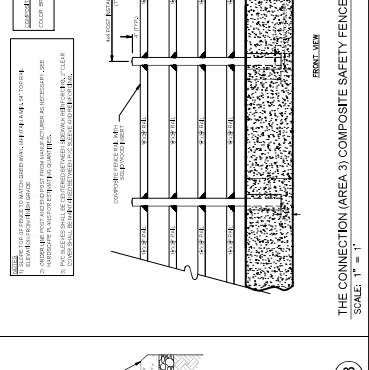
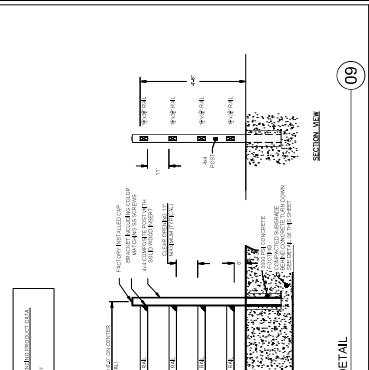
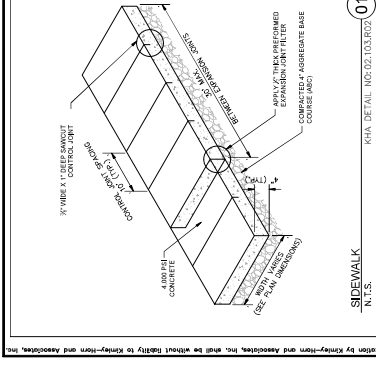
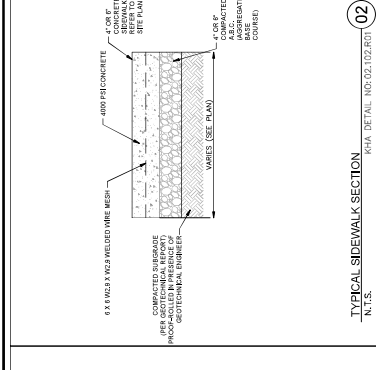
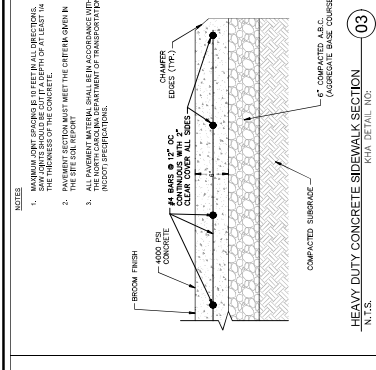
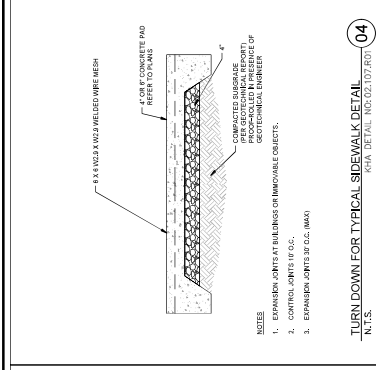
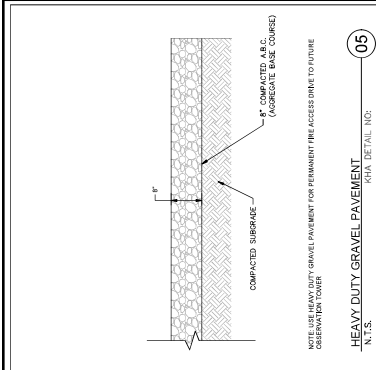
**Kimley-Horn**  
 #1-012  
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
 PHONE: 919-877-2000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM



PROJECT NO. 01251010  
 KHA PROJECT  
 SCALE AS SHOWN  
 DATE 08/02/2022  
 DESIGNED BY WRF  
 DRAWN BY YSA  
 CHECKED BY JDP  
 08/02/2022

**SIDEWALK DETAILS**

WILDWOOD PARK -  
 TOWER AND TRAILS  
 BID PACKAGE A  
 CITY OF GREENVILLE  
 SHEET NUMBER  
**C4.0.A**



**01**  
 SIDEWALK  
 N.T.S.  
 KHA DETAIL NO. 02.03.01.R01

**02**  
 TYPICAL SIDEWALK SECTION  
 N.T.S.  
 KHA DETAIL NO. 02.02.02.R01

**03**  
 HEAVY DUTY CONCRETE SIDEWALK SECTION  
 N.T.S.  
 KHA DETAIL NO. 02.02.03.R01

**04**  
 TURN DOWN FOR TYPICAL SIDEWALK DETAIL  
 N.T.S.  
 KHA DETAIL NO. 02.02.07.R01

**05**  
 HEAVY DUTY GRAVEL PAVEMENT  
 N.T.S.  
 KHA DETAIL NO. 02.02.08.R01

**06**  
 THE CONNECTION (AREA 3) SIDEWALK & TURN DOWN DETAIL  
 SCALE: 1" = 2"

**07**  
 TEMPORARY GRAVEL SECTION FOR CONSTRUCTION ACCESS AND RAMP-UPLANDS  
 N.T.S.  
 KHA DETAIL NO. 02.02.09.R01

**08**  
 HEAVY DUTY SIDEWALK CONNECTION TO HEAVY DUTY GRAVEL DETAIL  
 N.T.S.  
 KHA DETAIL NO. 02.02.10.R01

**09**  
 THE CONNECTION (AREA 3) COMPOSITE SAFETY FENCE DETAIL  
 SCALE: 1" = 1"

**10**  
 THE CONNECTION (AREA 3) TURN DOWN DETAIL WITHOUT RAILING  
 N.T.S.  
 KHA DETAIL NO. 10

**11**  
 PEDESTRIAN BRIDGE PANEL SIGN LOCATION  
 SCALE: 1" = 2"

**12**  
 SIGN PANEL DESIGN INTENT  
 SCALE: 1" = 1"

THIS DOCUMENT, TOGETHER WITH THE CONCEPT AND DESIGN PRESENTED HEREIN, IS AN INSTRUMENT OF SERVICE. IT IS HEREBY AGREED THAT THE CONSULTANT SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED TO THE CONSULTANT AND FOR THE CONSULTANT'S OBLIGATION TO THE CLIENT. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CLIENT. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED BY ANY OTHER PARTY. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED BY ANY OTHER PARTY. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED BY ANY OTHER PARTY.

SUBMITTANCE:  
 ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION SHALL BE PROVIDED BY THE CLIENT AT THE PROJECT LOCATION. THE CLIENT SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED TO THE CONSULTANT.

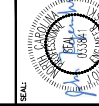


NO.	REVISIONS	DATE	BY
1		08/07/22	YSA
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

1	REVISED PER REVISIONS
2	ISSUED FOR BID
3	REVISED
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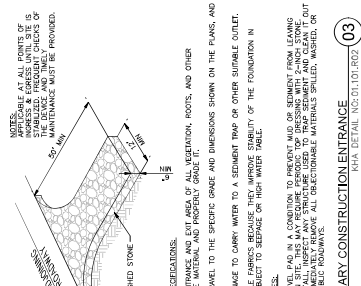
**Kimley-Horn**  
421 PATENTVILLE STREET, SUITE 400, FARMINGTON, NC 27601  
PHONE: 919.728.9300 FAX: 919.728.9390  
WWW.KIMLEY-HORN.COM #1-012



CHECKED BY	JDS
DATE	07/27/22
DESIGNED BY	MPS
SCALE	AS SHOWN
DATE	08/02/2022
SCALE	AS SHOWN
PROJECT	WMA PROJECT 012534101

## EROSION CONTROL

### TEMPORARY CONSTRUCTION ENTRANCE



**CONSTRUCTION SPECIFICATIONS:**

- INSTALL THE GRAVEL TO A DEPTH OF 6 INCHES TO 1 FOOT. THE GRAVEL SHOULD BE WASHED, FREE OF DEBRIS, AND MAINTAINANCE MUST BE PROVIDED.
- MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE PAD. ALL TRUCKS MUST BE WASHED AND CLEANED AT THE END OF EACH TRIP. ALL OTHER VEHICLES MUST BE WASHED AND CLEANED AT THE END OF EACH TRIP.
- PROVIDE GRASS TO GROW THROUGH THE GRAVEL TO STABILIZE THE PAD. THE GRASS SHOULD BE PLANTED IN THE FALL OR WINTER MONTHS.

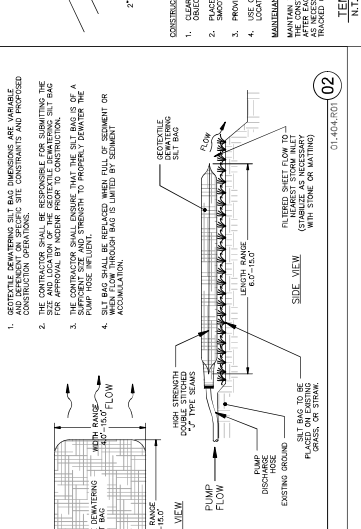
**MAINTENANCE NOTES:**

- MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE PAD.
- ALL TRUCKS MUST BE WASHED AND CLEANED AT THE END OF EACH TRIP.
- ALL OTHER VEHICLES MUST BE WASHED AND CLEANED AT THE END OF EACH TRIP.

**TEMPORARY CONSTRUCTION ENTRANCE**  
N.T.S.

## EROSION CONTROL

### TEMPORARY CONSTRUCTION ENTRANCE



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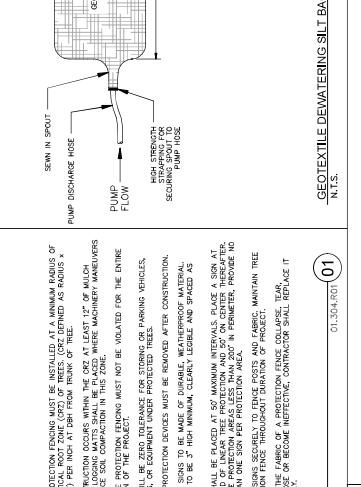
**MAINTENANCE NOTES:**

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**TEMPORARY CONSTRUCTION ENTRANCE**  
N.T.S.

## EROSION CONTROL

### TEMPORARY CONSTRUCTION ENTRANCE



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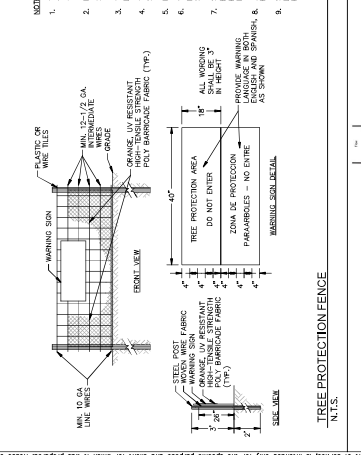
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**TEMPORARY CONSTRUCTION ENTRANCE**  
N.T.S.

## EROSION CONTROL

### TEMPORARY CONSTRUCTION ENTRANCE



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**TEMPORARY CONSTRUCTION ENTRANCE**  
N.T.S.

### SECTION 04011.01 - EROSION CONTROL

NO.	DESCRIPTION	REVISIONS
1	ISSUED FOR BID	
2	REVISED	
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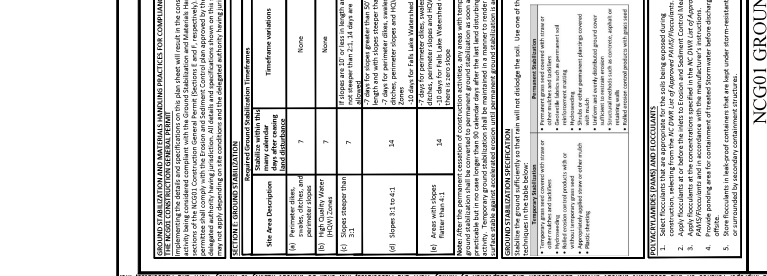
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## EROSION CONTROL

### TEMPORARY CONSTRUCTION ENTRANCE



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- ALL OTHER VEHICLES MUST BE WASHED AND CLEANED AT THE END OF EACH TRIP.

**TEMPORARY CONSTRUCTION ENTRANCE**  
N.T.S.







Know what's below.  
Call before you dig.

**FOUNDATIONS.**

- FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- PILES FOR FOUNDATION TYPES NO. 1, 2, 4 AND 6 ARE DESIGNED FOR A FACTORED RESISTANCE OF 5 TONS PER PILE.
- DRIVE PILES FOR FOUNDATION TYPES NO. 1, 2, 4 AND 6 TO A REQUIRED DRIVING RESISTANCE OF 6.5 TONS PER PILE.
- PILES FOR FOUNDATION TYPES NO. 3 AND 5 ARE DESIGNED FOR A FACTORED RESISTANCE OF 6.5 TONS PER PILE.
- DRIVE PILES FOR FOUNDATION TYPES NO. 3 AND 5 TO A REQUIRED DRIVING RESISTANCE OF 11 TONS PER PILE.
- PILES FOR FOUNDATION TYPE NO. 7 ARE DESIGNED FOR A FACTORED RESISTANCE OF 30 TONS PER PILE.
- DRIVE PILES FOR FOUNDATION TYPE NO. 7 TO A REQUIRED DRIVING RESISTANCE OF 30 TONS PER PILE.
- STEEL PILE POINTS ARE REQUIRED FOR TIMBER PILES FOR FOUNDATION TYPES 2 THROUGH 6.
- STEEL H-PILE POINTS ARE REQUIRED FOR FOUNDATION TYPE NO. 7 FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- INSTALL PILES FOR FOUNDATION TYPES NO. 2, 4, AND 6 TO A TIP ELEVATION NO HIGHER THAN 10 FEET BELOW EXISTING GROUND SURFACE.
- INSTALL PILES FOR FOUNDATION TYPES NO. 3 AND 5 TO A TIP ELEVATION NO HIGHER THAN 12 FEET BELOW EXISTING GROUND SURFACE.
- INSTALL PILES FOR FOUNDATION TYPE NO. 7 TO A TIP ELEVATION NO HIGHER THAN 14 FEET BELOW EXISTING GROUND SURFACE.
- IF NECESSARY, REDRILL PILE LOCATIONS FOR FOUNDATION TYPES 2 THROUGH 7 TO AN ELEVATION NO LOWER THAN THE "TIP NO HIGHER THAN" ELEVATIONS IN NOTES 9 THROUGH 11 WITH EQUIPMENT THAT WILL RESULT IN A MAXIMUM REDRILLING DEPTH OF 12 FEET. SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

- LUMP SUM PAY ITEMS FOR TIMBER BOARDWALK SHALL INCLUDE LABOR, MATERIALS, EQUIPMENT, DELIVERY AND OTHER INCIDENTALS AS NECESSARY FOR THE TIMBER BOARDWALK, APPROACH RAILING, PEDESTRIAN RAILINGS, PILE PREDRILLING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED) DEWATERING, ETC.
- LUMP SUM PAYMENT FOR PREFABRICATED STEEL PEDESTRIAN BRIDGE SHALL INCLUDE ALL ENGINEERING, LABOR, MATERIALS, EQUIPMENT, DELIVERY, AND OTHER INCIDENTALS NECESSARY FOR THE PREFABRICATED STEEL PRATT TRUSS PEDESTRIAN BRIDGE. CHANGES TO THE STANDARD SPECIFICATIONS SHALL BE PAID AS ANCHOR BOLTS, APPROACH RAILINGS, PILE PREDRILLING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED), DEWATERING, EPOXY PROTECTIVE COATING, ETC.
- LUMP SUM PAYMENT FOR PREFABRICATED FRP PEDESTRIAN BRIDGE SHALL INCLUDE ALL ENGINEERING, LABOR, MATERIALS, EQUIPMENT, DELIVERY, AND OTHER INCIDENTALS NECESSARY FOR THE PREFABRICATED FRP PEDESTRIAN BRIDGE. CHANGES TO THE STANDARD SPECIFICATIONS SHALL BE PAID AS ANCHOR BOLTS, APPROACH RAILINGS, PILE PREDRILLING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED), DEWATERING, EPOXY PROTECTIVE COATING, ETC.
- LUMP SUM PAYMENT FOR FRP BOARDWALK SHALL INCLUDE ALL ENGINEERING, LABOR, MATERIALS, EQUIPMENT, DELIVERY, AND OTHER INCIDENTALS NECESSARY FOR THE FRP BOARDWALK, TIMBER DECKING, TIMBER PEDESTRIAN RAILING, APPROACH RAILINGS, PILE PREDRILLING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED), DEWATERING, EPOXY PROTECTIVE COATING, ETC.

TOTAL BILL OF MATERIALS						
STRUCTURE #	TIMBER BOARDWALK 1	PREFABRICATED STEEL PEDESTRIAN BRIDGE 2	RIP RAP CLASS II (2-5" THICK)	GEOTEXTILE FOR DRAINAGE	BID ALTERNATIVE #1 - FRP PREFABRICATED PEDESTRIAN BRIDGE 3	BID ALTERNATIVE #2 - FRP BOARDWALK 4
	LUMP SUM	LUMP SUM	TONS	S.Y.	LUMP SUM	LUMP SUM
STRUCTURE #1 (-L2- STA. 10+40.00 - STA. 12+51.00)	LUMP SUM	LUMP SUM	20	15	LUMP SUM	LUMP SUM
STRUCTURE #1 (-L2- STA. 15+41.00 - STA. 13+09.00)	LUMP SUM	LUMP SUM			LUMP SUM	LUMP SUM
STRUCTURE #1 (-L2- STA. 16+09.00 - STA. 15+23.91)	LUMP SUM	LUMP SUM			LUMP SUM	LUMP SUM
STRUCTURE #1 (-L2- STA. 15+53.91 - STA. 15+53.91)	LUMP SUM	LUMP SUM			LUMP SUM	LUMP SUM
STRUCTURE #1 (-L2- STA. 16+53.91 - STA. 19+48.75)	LUMP SUM	LUMP SUM	20	15	LUMP SUM	LUMP SUM
STRUCTURE #1 (STAIRS @ -Y3-)	LUMP SUM	LUMP SUM			LUMP SUM	LUMP SUM

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA

**Kimley-Horn**  
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
 PHONE: 919-877-5000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM  
 #--0102



**BRIDGE GENERAL NOTES**

WILWOOD PARK - TOWER AND TRAILS - PACKAGE A  
 CITY OF GREENVILLE  
 SHEET NUMBER S.02.A

CURB ELEVATION:  
 ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY OWNER & CONTRACTOR. CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BIDDING. PHONE: 828-243-1919 DATED 05/11/22.

NO.	REVISIONS	ISSUED FOR BID	DATE	BY
1		08/02/22	ASA	

**Kimley-Horn**  
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 421 FAYETTEVILLE STREET, SUITE 600, RALPH, NC 27601  
 PHONE: 919-877-5000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM #-0102

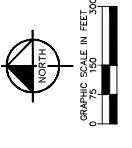
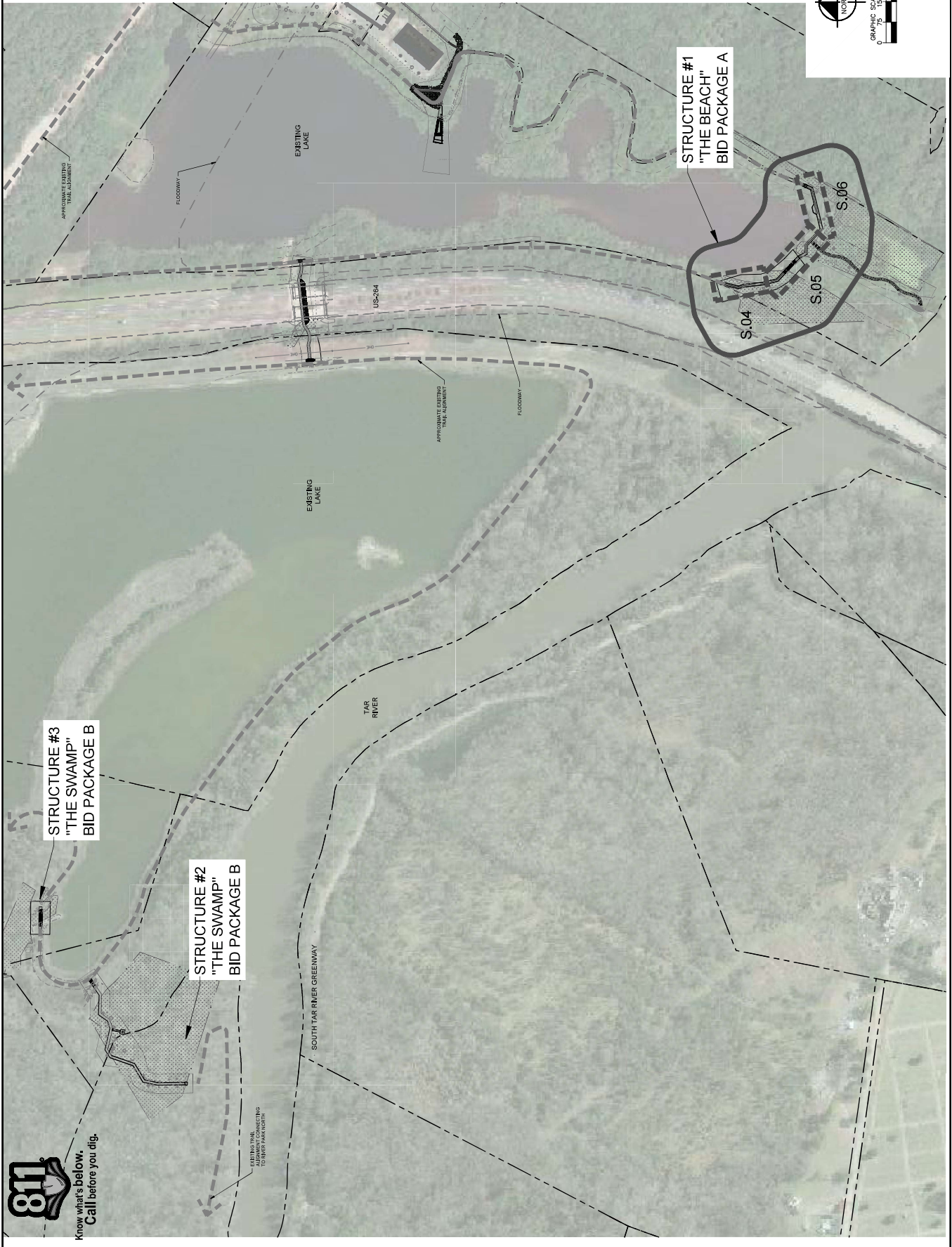


KHA PROJECT 012554010  
 DATE 08/02/2022  
 SCALE AS SHOWN  
 DESIGNED BY BMR  
 DRAWN BY JMK  
 CHECKED BY JMK

**STRUCTURE LOCATIONS**

GREENVILLE  
 CITY OF GREENVILLE  
 WILDWOOD PARK -  
 TOWER AND TRAILS -  
 PACKAGE A

SHEET NUMBER  
**S.03.A**



**811**  
 Know what's below.  
 Call before you dig.

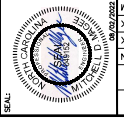
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No.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA

**Kimley-Horn**  
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 421 FAYETTEVILLE STREET, SUITE 600, RALPHOCH, NC 27601  
 PHONE: 919-877-5000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM  
 # - 0102



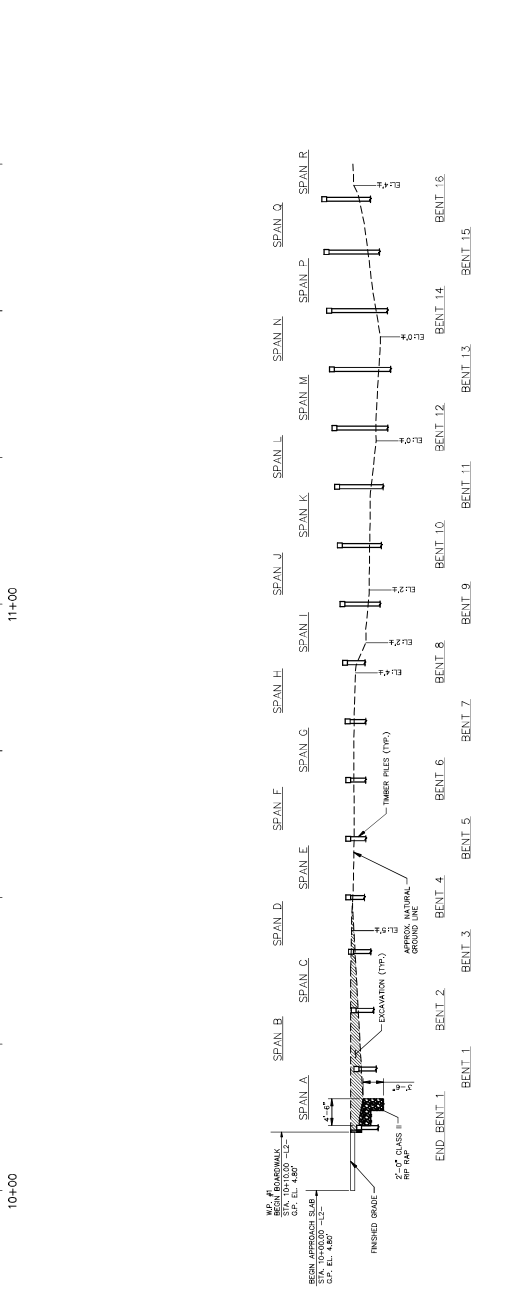
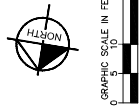
KHA PROJECT  
 012554010  
 DATE  
 08/02/2022  
 SCALE AS SHOWN  
 DESIGNED BY BMK  
 DRAWN BY JMK  
 CHECKED BY ADM

**PLAN AND PROFILE -  
 THE BEACH (AREA 2)  
 (STRUCTURE #1)**

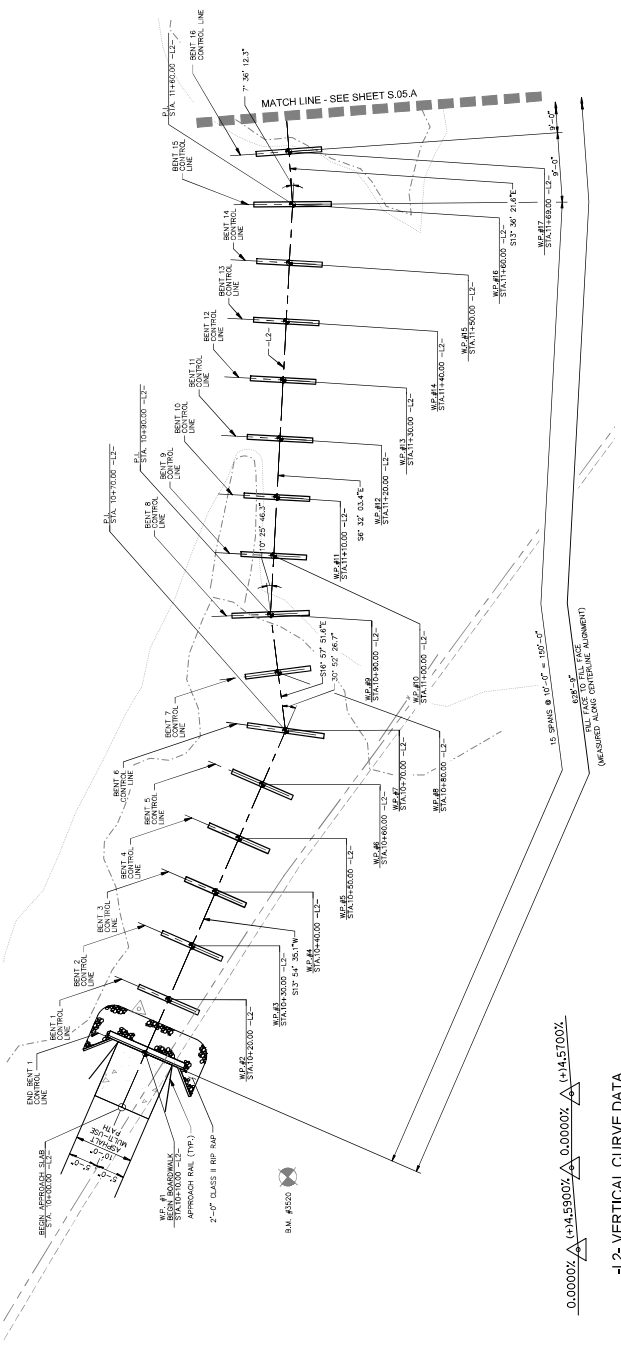
WILWOOD PARK -  
 TOWER AND TRAILS -  
 PACKAGE A  
 PREPARED FOR  
 CITY OF GREENVILLE  
 GREENVILLE

SHEET NUMBER  
**S.04.A**

CURVE DATA  
 ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY OWNER & ASSOCIATE ENGINEER. THIS INFORMATION WAS FIELD VERIFIED BY THE ENGINEER. DATE OF FIELD VERIFICATION: 08/02/2022. PHONE: 919-877-5000 EXT. 6010.



**SECTION ALONG -L2-**  
 (SECTIONS @ BENTS AND END BENTS ARE @ RIGHT ANGLES)  
 (LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



**PLAN**  
 (PILES NOT SHOWN IN PLAN VIEW)

**-L2- VERTICAL CURVE DATA**

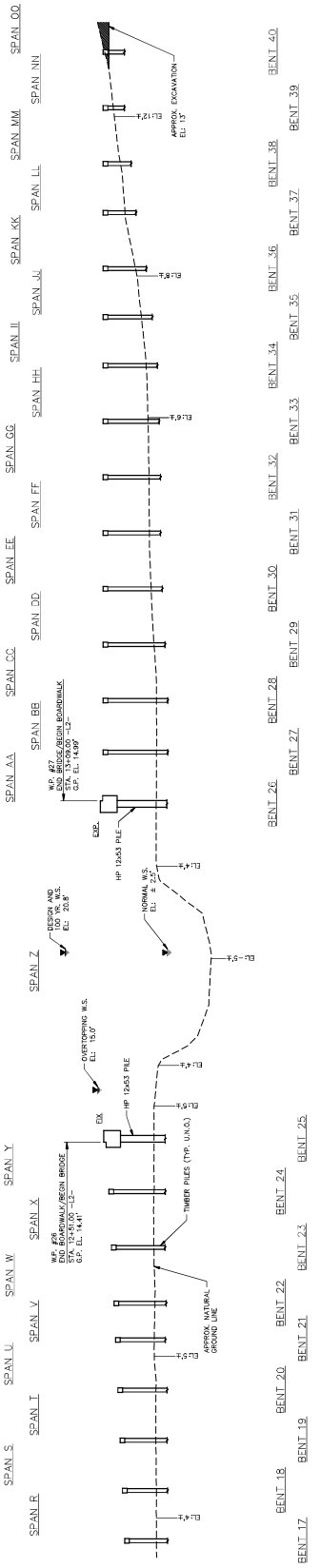
PVI STA. = 10+10.00 -L2- PVI STA. = 10+50.00 -L2- PVI STA. = 10+80.00 -L2-  
 EL. = 4.80' EL. = 6.64' EL. = 6.64'  
 V.C. = 0' V.C. = 0' V.C. = 0'

0.0000% (+)A.5900% 0.0000% (-)A.5100%

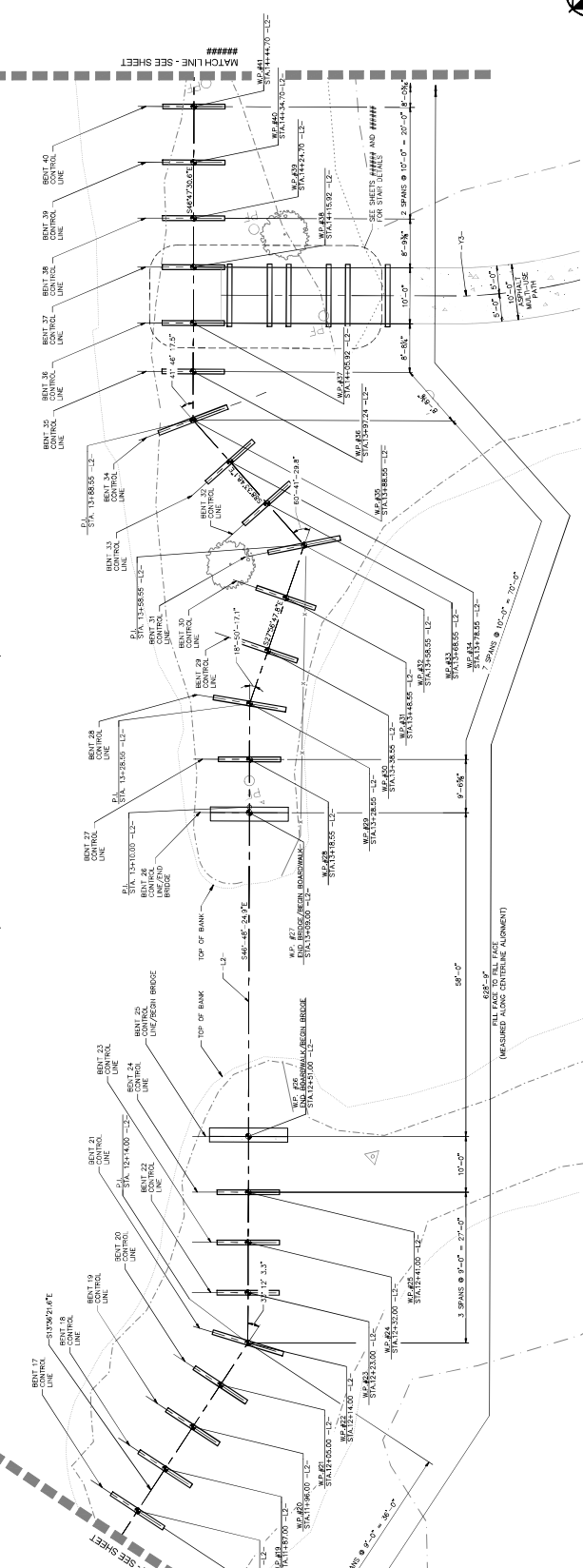
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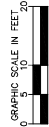
**SECTION ALONG -L2-**  
(SECTIONS @ BENTS AND ENDS BENTS ARE @ RIGHT ANGLES)  
(LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



**PLAN**  
(PILES NOT SHOWN IN PLAN VIEW)

**-L2- VERTICAL CURVE DATA**  
PVI STA. = 12+50.00 -L2- PVI STA. = 13+10.00 -L2-  
EL. = 14.40' EL. = 15.00'  
V.C. = 0' V.C. = 0'

$(+/-) 15.5000\%$   $(+/-) 11.0000\%$   $(+/-) 0.0000\%$



**GREENVILLE**  
CITY OF GREENVILLE  
TOWER AND TRAILS -  
PACKAGE A  
WILWOOD PARK -  
PLAN AND PROFILE -  
THE BEACH (AREA 2)  
(STRUCTURE #1)

**S.05.A**  
SHEET NUMBER

**WILWOOD PARK -  
TOWER AND TRAILS -  
PACKAGE A**

**GREENVILLE**  
CITY OF GREENVILLE  
TOWER AND TRAILS -  
PACKAGE A  
WILWOOD PARK -  
PLAN AND PROFILE -  
THE BEACH (AREA 2)  
(STRUCTURE #1)

**WILWOOD PARK -  
TOWER AND TRAILS -  
PACKAGE A**

**GREENVILLE**  
CITY OF GREENVILLE  
TOWER AND TRAILS -  
PACKAGE A  
WILWOOD PARK -  
PLAN AND PROFILE -  
THE BEACH (AREA 2)  
(STRUCTURE #1)

**WILWOOD PARK -  
TOWER AND TRAILS -  
PACKAGE A**

**GREENVILLE**  
CITY OF GREENVILLE  
TOWER AND TRAILS -  
PACKAGE A  
WILWOOD PARK -  
PLAN AND PROFILE -  
THE BEACH (AREA 2)  
(STRUCTURE #1)

**WILWOOD PARK -  
TOWER AND TRAILS -  
PACKAGE A**

No.	ISSUED FOR	REVISIONS	DATE	BY
1	ISSUED FOR BID		08/02/22	ASA

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PHONE: 919-873-0000 FAX: 919-437-77-2050  
WWW.KIMLEY-HORN.COM  
#-0102



**KHA PROJECT**  
01234010  
DATE: 08/02/2022  
SCALE: AS SHOWN  
DESIGNED BY: BMR  
CHECKED BY: JDM  
DRAWN BY: JDM

**WILWOOD PARK -  
TOWER AND TRAILS -  
PACKAGE A**

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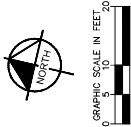
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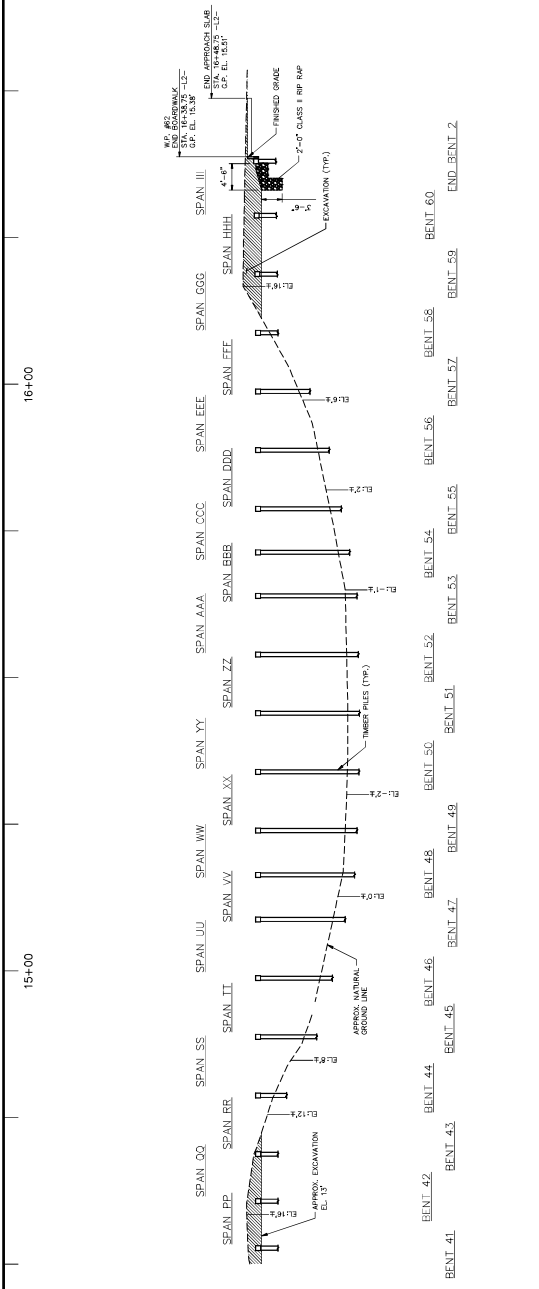


KHA PROJECT 012304010  
 DATE 08/02/2022  
 DESIGNED BY BMR  
 DRAWN BY JMK  
 CHECKED BY JDM  
 SCALE AS SHOWN  
 THE BEACH (AREA 2)  
 (STRUCTURE #1)

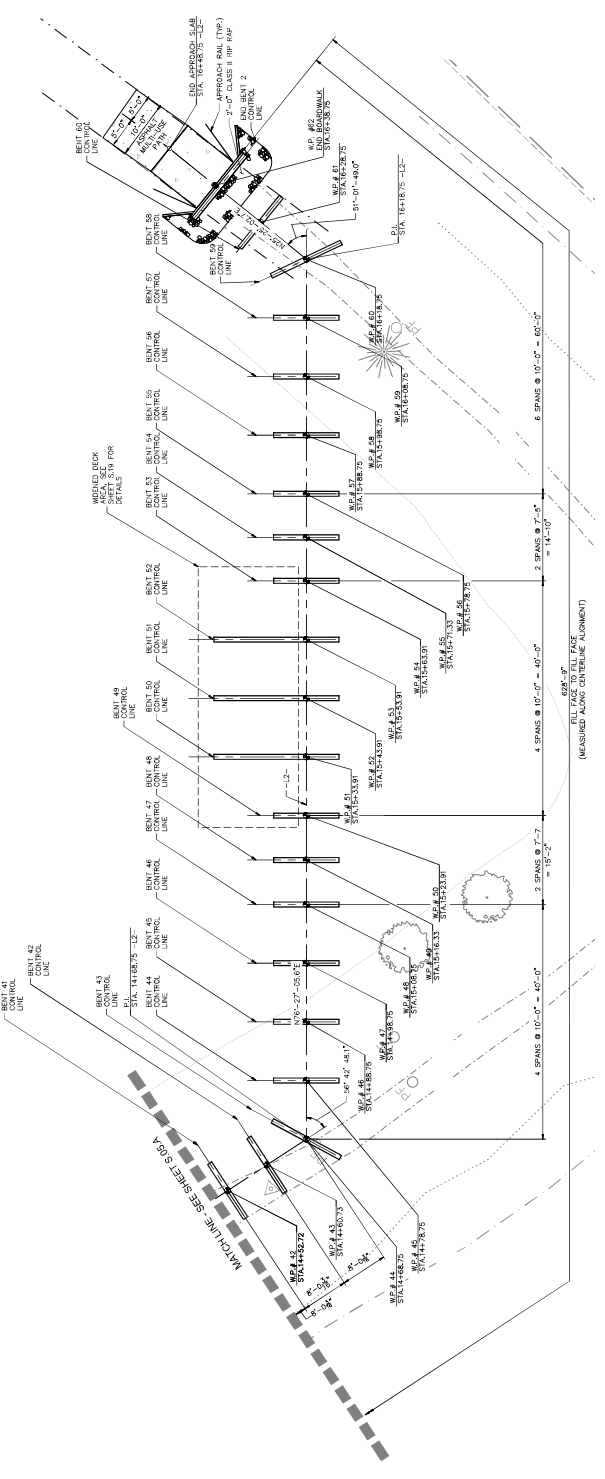
WILWOOD PARK - TOWER AND TRAILS - PACKAGE A  
 PREPARED FOR CITY OF GREENVILLE  
 GREENVILLE  
 SHEET NUMBER S.06A



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SECTION ALONG -L2-  
 (SECTIONS @ BENTS AND END BENTS ARE @ RIGHT ANGLES)  
 (LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



PLAN  
 (PILES NOT SHOWN IN PLAN VIEW)

0.0000%  $\nabla$  (+)1:2500%  
 -L2- VERTICAL CURVE DATA  
 PVI STA. = 16+08.75 -L2-  
 EL. = 15.00'  
 V.C. = 0'

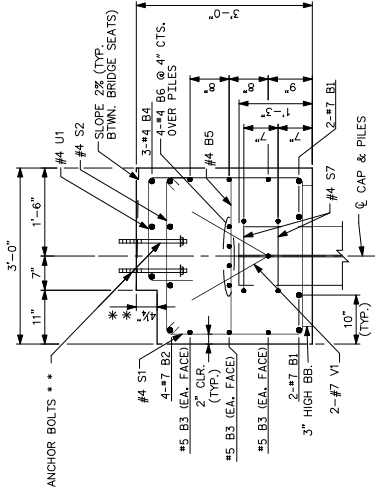
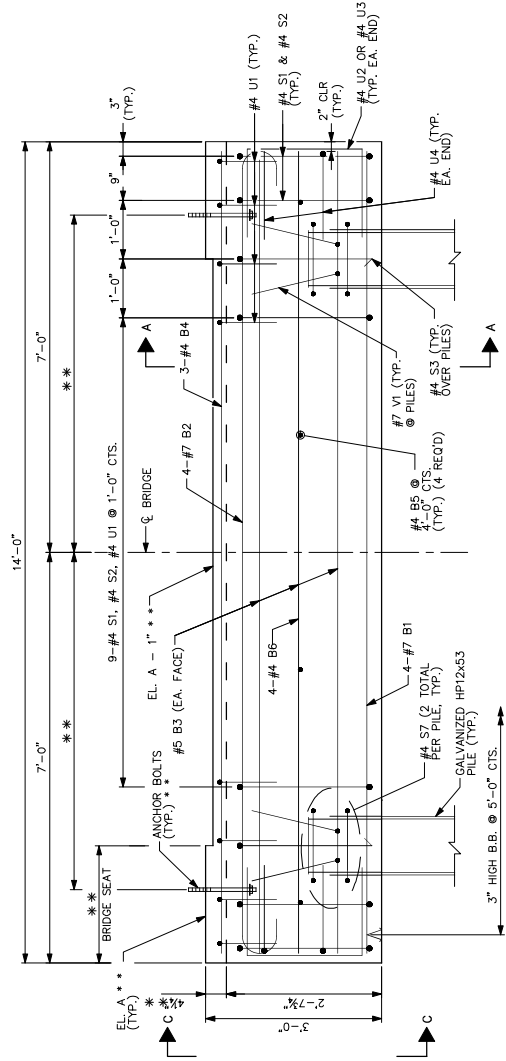
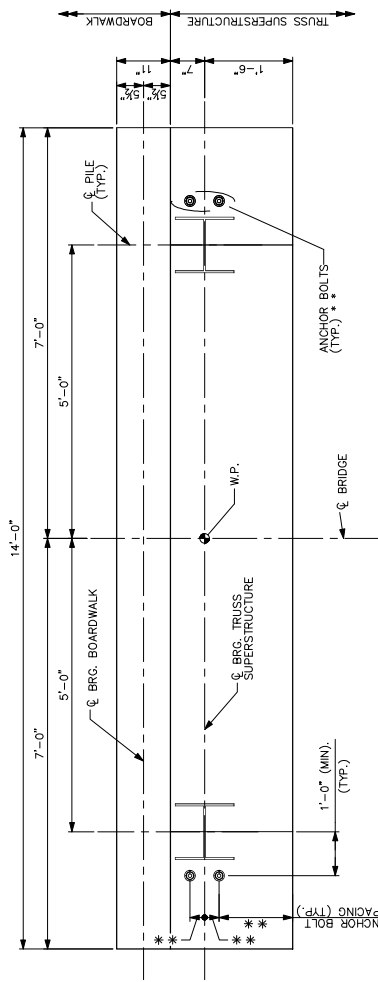
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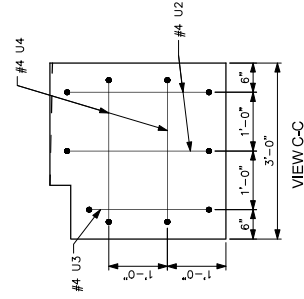
### NOTES

- REFER TO PREFABRICATED PEDESTRIAN BRIDGE PLANS (BY OTHERS) FOR ANCHOR BOLT PLACEMENT, DETAILS, AND DIMENSIONS NOT SHOWN. MINIMUM EMBEDMENT OF ANCHOR BOLTS SHALL BE 15".



NOTE: TIMBER BOARDWALK TO BRIDGE CONNECTION NOT SHOWN FOR CLARITY.

### SECTION A-A



NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22	08/02/22

GREENVILLE CITY OF GREENVILLE

WILWOOD PARK - TOWER AND TRAILS - PACKAGE A

BRIDGE END BENT DETAILS

PREPARED FOR  
CITY OF GREENVILLE  
CITY ENGINEER

PROJECT NO. 1507A

SHEET NUMBER  
**S.07.A**

DESIGNED BY: BMR  
CHECKED BY: JMK  
DATE: 08/02/2022  
SCALE: AS SHOWN  
KHA PROJECT: 012554010

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919-871-2000 FAX 919-437-77-2050  
421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

#1-KIMLEY-HORN AND ASSOCIATES, INC.

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UNIVERSITY CITY OF GREENVILLE  
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DRAWN BY: JMK  
CHECKED BY: JMK  
DATE: 08/02/2022  
SCALE: AS SHOWN  
KHA PROJECT: 012554010

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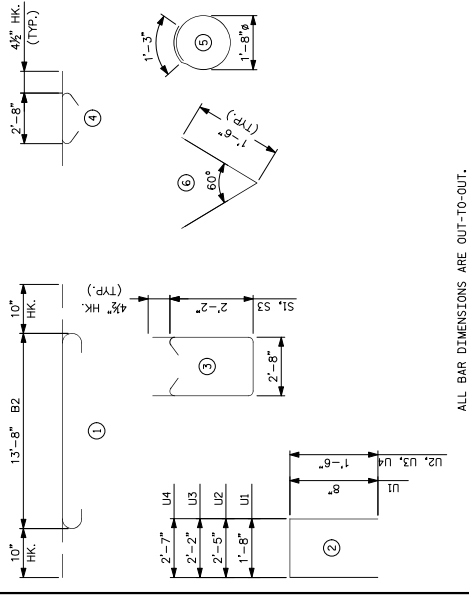
\*\* REFER TO PREFABRICATED PEDESTRIAN BRIDGE AND PRECAST CONCRETE BOARDWALK PLANS BY OTHERS FOR ANCHOR BOLT REQUIREMENTS AND REQUIREMENTS FOR ANCHOR BOLT PLACEMENT. VERIFY REQUIREMENTS WITH THE PREFABRICATED BRIDGE ENGINEER.

CONTRACTOR MUST UPDATE DIMENSIONS BASED ON ACTUAL INFORMATION PROVIDED BY THE PEDESTRIAN BRIDGE FABRICATOR.

ADHESIVE ANCHOR SYSTEM SHALL HAVE A MINIMUM RULLOUT STRENGTH (ALLOWABLE) OF 10 KIPS. THE ADHESIVE ANCHOR SYSTEM SHALL BE CHOSEN FROM THOSE ON THE NCDOT APPROVED PRODUCTS LIST.

FOR SETTING TIMBER BOARDWALK ANCHOR BOLTS, THE CONTRACTOR SHALL USE AN ADHESIVE BONDING SYSTEM. SEE CONTRACTOR'S MANUAL FOR THE ADHESIVE BONDING SYSTEM. PROVISION. LEVEL ONE FIELD TESTING OF BONDING IS REQUIRED.

**BAR TYPES**



ALL BAR DIMENSIONS ARE OUT-TO-OUT.

**BILL OF MATERIAL**  
FOR ONE BRIDGE BENT  
(2 RECD)

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	4	7	STR 13'-8"	112	
B2	4	7	STR 13'-8"	125	
B3	4	7	STR 13'-8"	95	
B4	4	7	STR 13'-8"	7	
B5	4	7	STR 2'-8"	7	
B6	4	7	STR 13'-8"	37	
U1	15	4	2	3'-0"	30
U2	4	4	2	5'-5"	14
U3	4	4	2	5'-5"	14
U4	4	4	2	5'-7"	15
S1	13	4	3	7'-9"	67
S2	13	4	4	3'-5"	30
S3	2	4	3	7'-9"	10
S4	4	4	5	6'-6"	17
V1	4	7	6	3'-0"	25

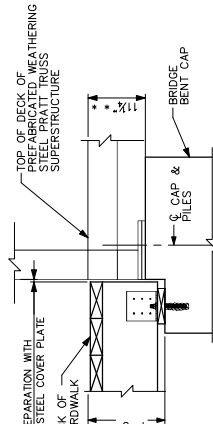
REINFORCING STEEL	LBS.	610
CLASS A CONCRETE	C. Y.	5.0

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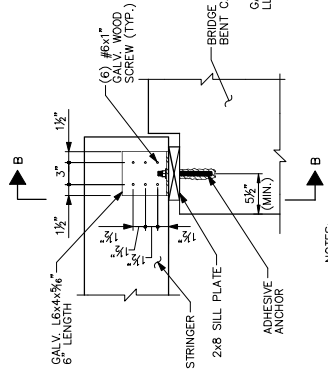
**WILWOOD PARK - TOWER AND TRAILS - PACKAGE A**  
**BRIDGE END BENT**  
 CITY OF GREENVILLE  
 GREENVILLE

**811**  
 Know what's below.  
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NOTES:  
1. BENT CAP REINF. NOT SHOWN FOR CLARITY.

**BRIDGE BENT SECTION**



NOTES:  
1. SINGLE STRINGER SHOWN. CONNECTIONS SIMILAR FOR EACH STRINGER.  
2. ANGLES TO BE PLACED ON INTERIOR FACE OF OUTSIDE STRINGERS.  
3. DECORING, BLOCKING, BRIDGE, AND BENT CAP REINF. NOT SHOWN FOR CLARITY.

**TIMBER BOARDWALK TO BRIDGE BENT CONNECTION**

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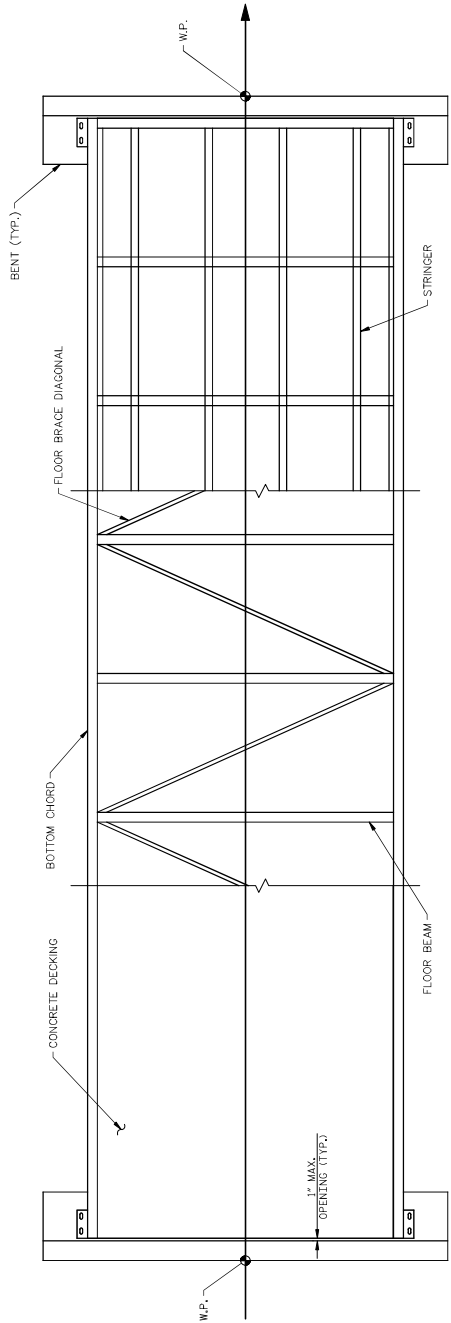




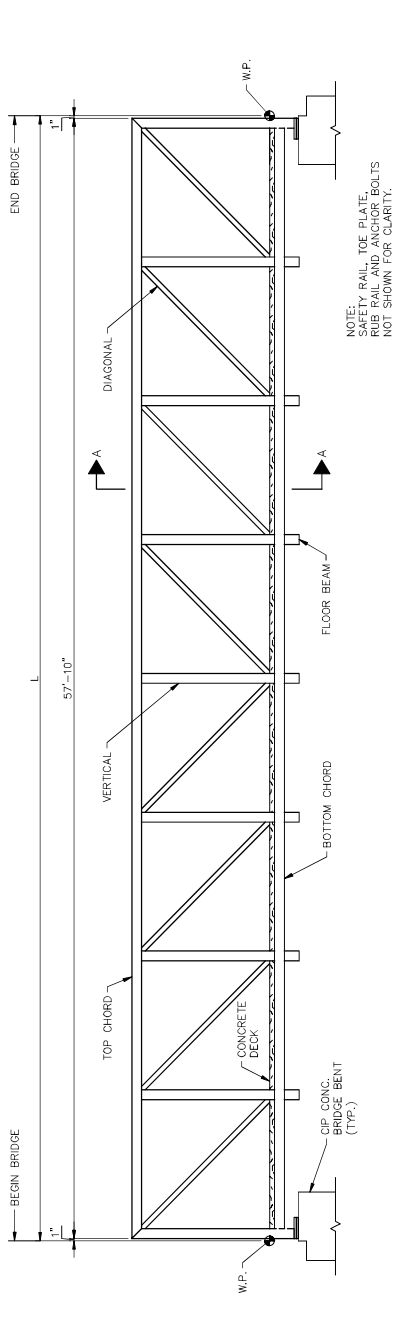
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### NOTES

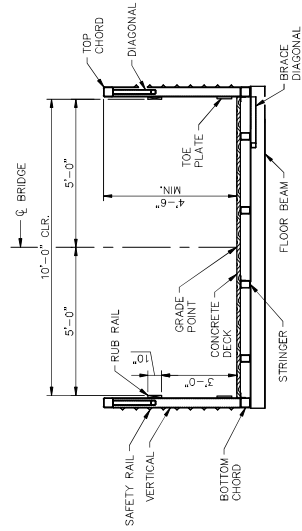
PREFABRICATED PEDESTRIAN BRIDGE DETAILS SHOWN FOR AESTHETIC REQUIREMENT ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF THE SUPERSTRUCTURE. SEE SPECIAL PROVISIONS.



### PREFABRICATED PEDESTRIAN BRIDGE PLAN



### PROPOSED 60' PREFABRICATED STEEL BRIDGE ELEVATION (PRATT TRUSS)



### SECTION A-A

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SCALE AS SHOWN  
 DATE 08/02/2022  
 KHA PROJECT 012584010  
 DESIGNED BY BMK  
 DRAWN BY JMK  
 CHECKED BY MDM

## PREFABRICATED PEDESTRIAN BRIDGE DETAILS

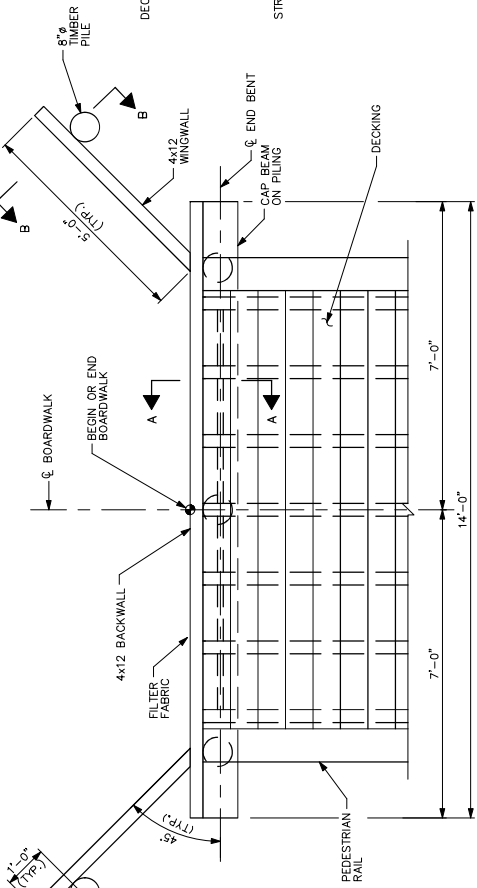
GREENVILLE  
 CITY OF GREENVILLE  
 PREPARED FOR  
 PACKAGE A  
 TOWER AND TRAILS  
 WILWOOD PARK -

SHEET NUMBER  
**S.06.A**

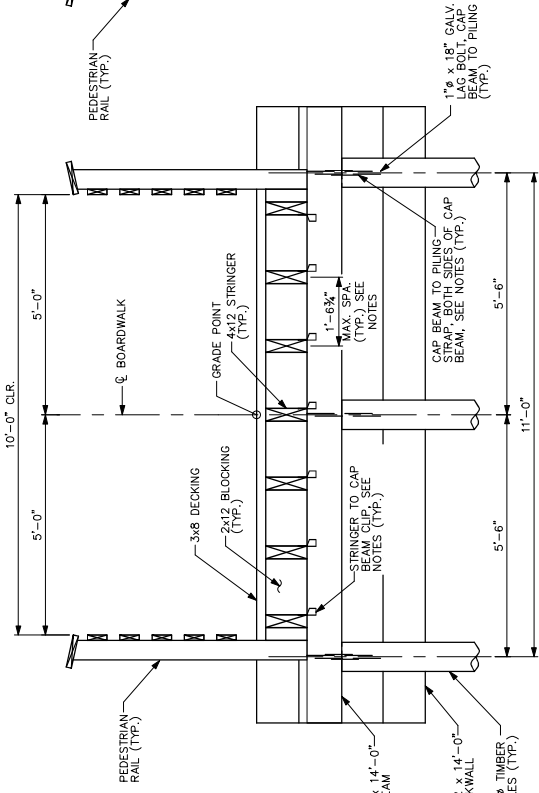
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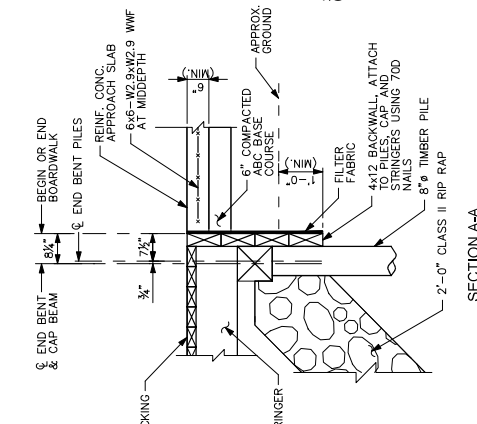
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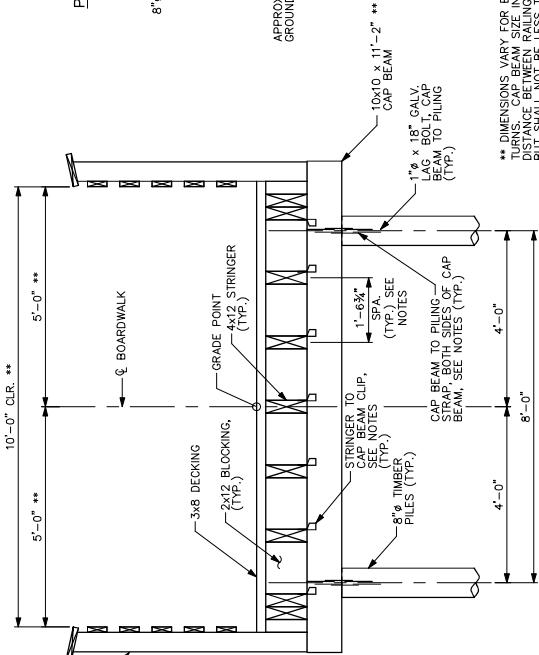
TIMBER BOARDWALK END BENT PLAN



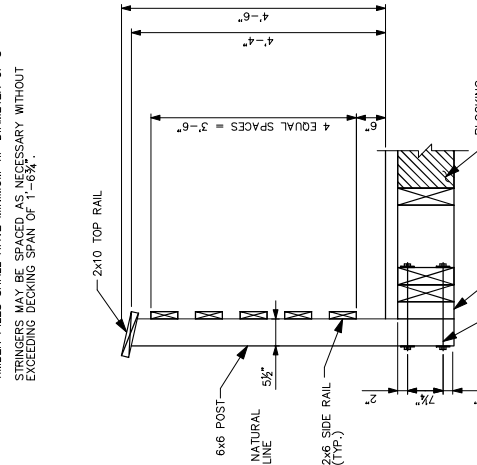
TIMBER BOARDWALK END BENT ELEVATION



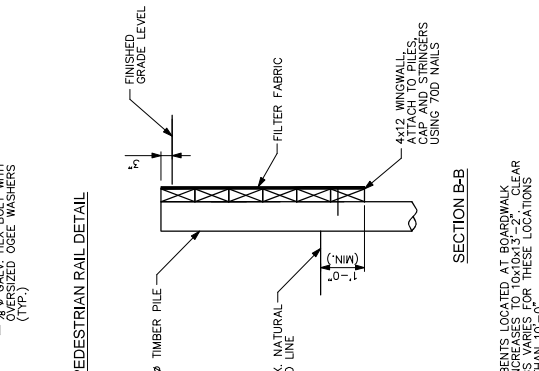
SECTION A-A  
(RAILING NOT SHOWN FOR CLARITY)



TIMBER BOARDWALK BENT ELEVATION



PEDESTRIAN RAIL DETAIL



SECTION B-B

**NOTES**

STRINGER TO CAP BEAM CLIP SHALL BE:  
1. SIMPSON STRONG TIE L1S12  
2. USP #16 RT4  
3. OR APPROVED EQUAL

CAP BEAM TO PILING STRAP SHALL BE:  
1. SIMPSON STRONG TIE L1S12  
2. USP #16 RT4 STRAP  
3. OR APPROVED EQUAL

TIMBER PILES SHALL HAVE MINIMUM TIP DIAMETER OF 8"  
STRINGERS MAY BE SPACED AS NECESSARY WITHOUT EXCEEDING DECKING SPAN OF 1'-6 3/4".

NO.	REVISIONS	DATE	BY
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2	REVISIONS		

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KHA PROJECT 01254010  
 DATE 08/02/2022  
 DESIGNED BY BMS  
 CHECKED BY JMK  
 DRAWN BY JMK

**TIMBER BOARDWALK DETAILS**

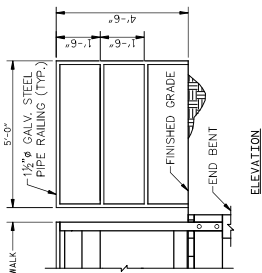
WILWOOD PARK - TOWER AND TRAILS - PACKAGE A  
 PREPARED FOR CITY OF GREENVILLE  
 GREENVILLE  
 SHEET NUMBER S.10.A

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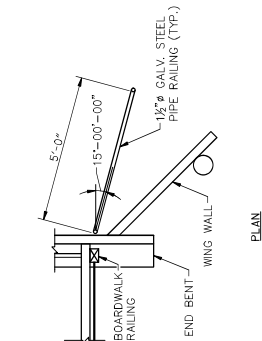
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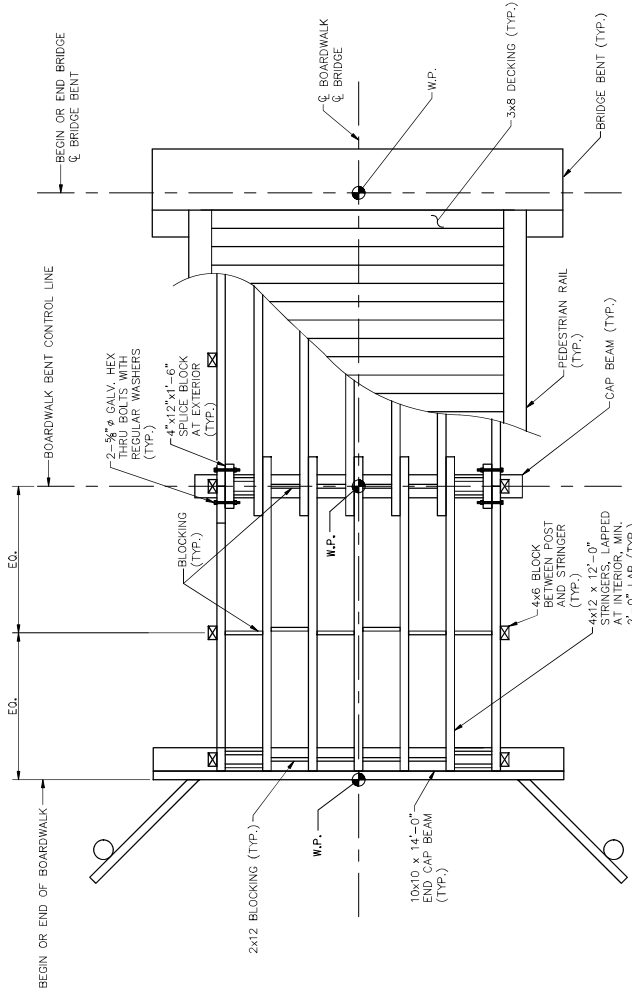


ELEVATION

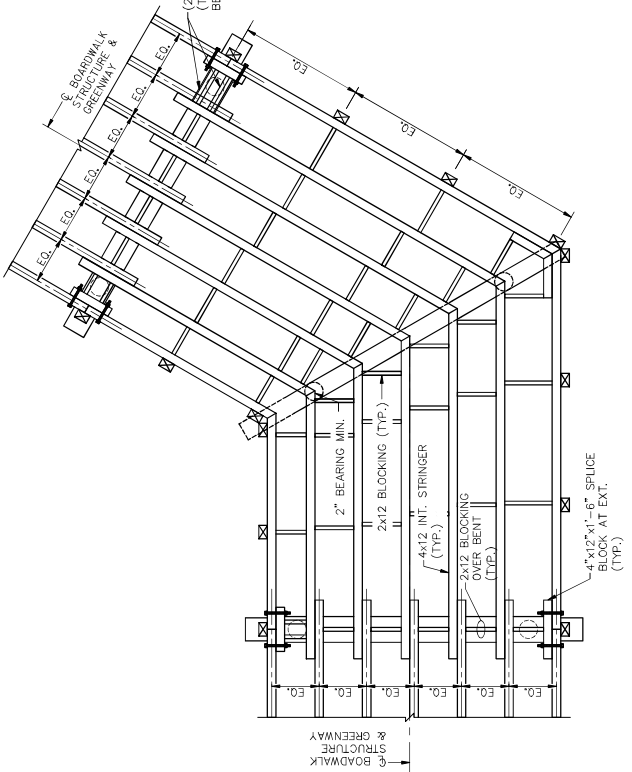


PLAN

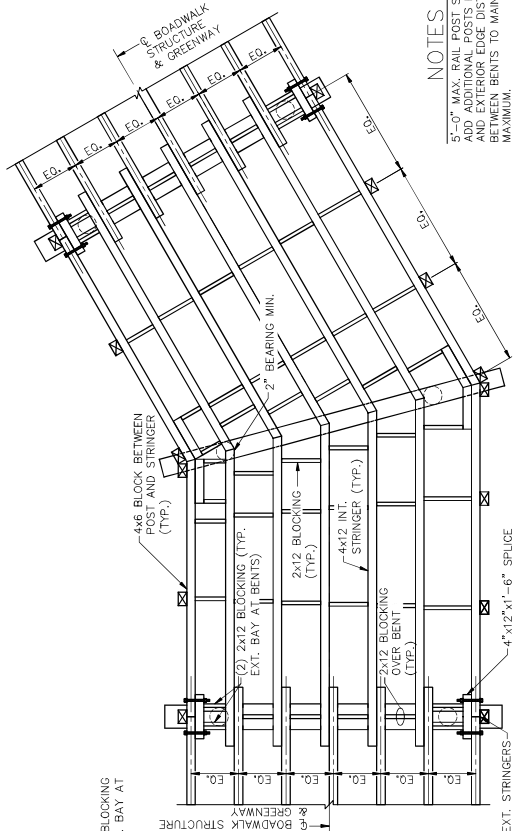
TYPICAL APPROACH RAIL



TIMBER BOARDWALK DECK FRAMING PLAN



FRAMING AT <30° TURN



FRAMING AT <30° TURN

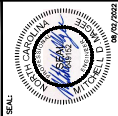
NOTES

- 5'-0" MAX. RAIL POST SPACING. ADD ADDITIONAL POSTS FOR SPANS EXCEEDING 5'-0".
- MAINTAIN 5'-0" MINIMUM BETWEEN BENTS TO MAINTAIN 5'-0" MAXIMUM.

GREENVILLE  
CITY OF GREENVILLE  
PREPARED FOR  
TOWER AND TRAILS  
WILWOOD PARK -  
SHEET NUMBER  
S.11.A

TIMBER BOARDWALK  
FRAMING DETAILS

KHA PROJECT  
0121591010  
DATE  
08/02/2022  
SCALE AS SHOWN  
DESIGNED BY  
JMK  
CHECKED BY  
JMK



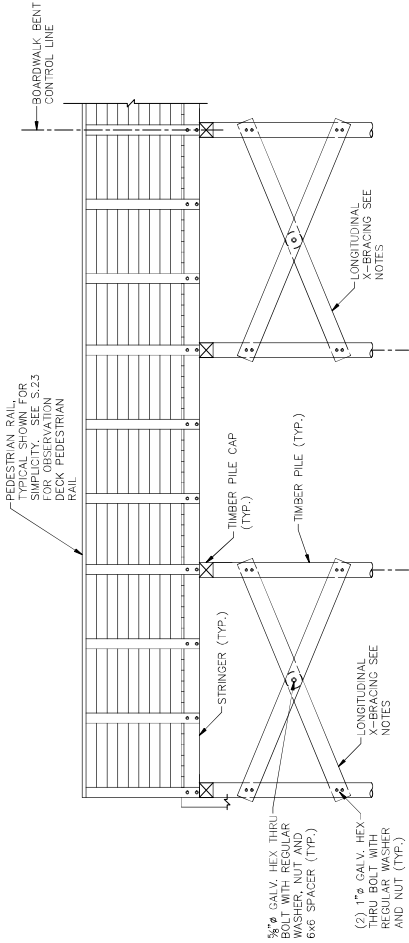
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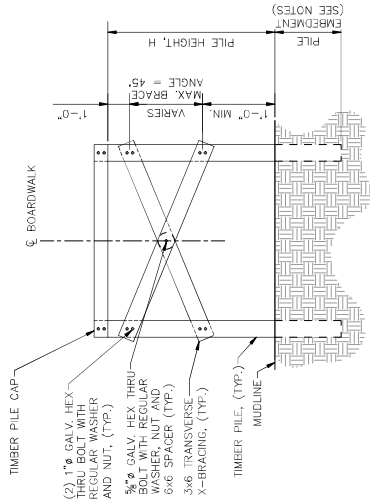
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ALIGNMENT	BENT NO.	PILE TYPE	FOUNDATION AND BRACING REQUIREMENTS			LATERAL BRACING (DETAIL B)	LONGITUDINAL BRACING (DETAIL A)
			NO. PILES PER SUBSTRUCTURE UNIT, %	FOUNDATION TYPE	ESTIMATED PILE LENGTH (PER PILE), FT.		
-12- (THE BEACH)	END BENT 1	8" DIA. TIMBER	3	1	35	NO	NO
	1-5	8" DIA. TIMBER	2	2	40	NO	NO
	6	8" DIA. TIMBER	2	3	45	NO	NO
	7	8" DIA. TIMBER	2	3	45	NO	NO
	8	8" DIA. TIMBER	2	3	45	NO	NO
	9-11	8" DIA. TIMBER	2	2	40	NO	NO
	12-14	8" DIA. TIMBER	2	2	40	YES	NO
	15	8" DIA. TIMBER	2	3	45	YES	NO
	16-20	8" DIA. TIMBER	2	2	40	NO	NO
	21-24	8" DIA. TIMBER	2	3	45	NO	NO
	25-26	8" DIA. TIMBER	2	2	40	YES	NO
	27	8" DIA. TIMBER	2	2	40	YES	YES
	28	8" DIA. TIMBER	2	3	45	YES	YES
	29	8" DIA. TIMBER	2	2	40	YES	YES
	30	8" DIA. TIMBER	2	2	40	YES	NO
	31	8" DIA. TIMBER	2	3	45	YES	NO
	32-33	8" DIA. TIMBER	2	2	40	YES	NO
	34	8" DIA. TIMBER	2	3	45	YES	NO
	35-42	8" DIA. TIMBER	2	2	40	NO	NO
	43	8" DIA. TIMBER	2	3	45	NO	NO
	44	8" DIA. TIMBER	2	2	40	NO	NO
	45	8" DIA. TIMBER	2	2	40	YES	NO
	46-48	8" DIA. TIMBER	2	2	40	YES	YES
	49	8" DIA. TIMBER	2	4	50	YES	YES
	50-52	8" DIA. TIMBER	4	6	50	YES	YES
	53	8" DIA. TIMBER	2	4	50	YES	YES
	54	8" DIA. TIMBER	2	5	55	YES	YES
	55-56	8" DIA. TIMBER	2	2	40	YES	YES
	57	8" DIA. TIMBER	2	2	40	NO	NO
	END BENT 2	8" DIA. TIMBER	3	1	35	NO	NO
-13- (THE BEACH)	1-6	8" DIA. TIMBER	2	2	40	NO	NO



NOTES:  
1. PROVIDE LONGITUDINAL 3x6 X-BRACING ON EACH SIDE OF BOARDWALK WHEN DICTATED IN "FOUNDATION AND BRACING REQUIREMENT" TABLE.

DETAIL A - LONGITUDINAL BRACING



DETAIL B - LATERAL BRACING

NOTES:  
1. SEE GEO TECHNICAL REPORT FOR FOUNDATION TYPE INFORMATION AND DIMENSIONS.  
2. PROVIDE MIN. CLEARANCE OF 7x BOLT DIAMETER FROM BOLT TO END OF BRACING.  
3. WHERE BRACES ARE REQUIRED, BRACE ANGLE TO BE MAXIMIZED UP TO 45°.

BUREAU CODE:  
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 # - 0102

KHA PROJECT: 012581010  
 DATE: 08/02/2022  
 DESIGNED BY: BMK  
 DRAWN BY: JMK  
 CHECKED BY: JMK  
 SCALE AS SHOWN  
 PREPARED FOR: CITY OF GREENVILLE  
 PROJECT: WILWOOD PARK - TOWER AND TRAILS - PACKAGE A

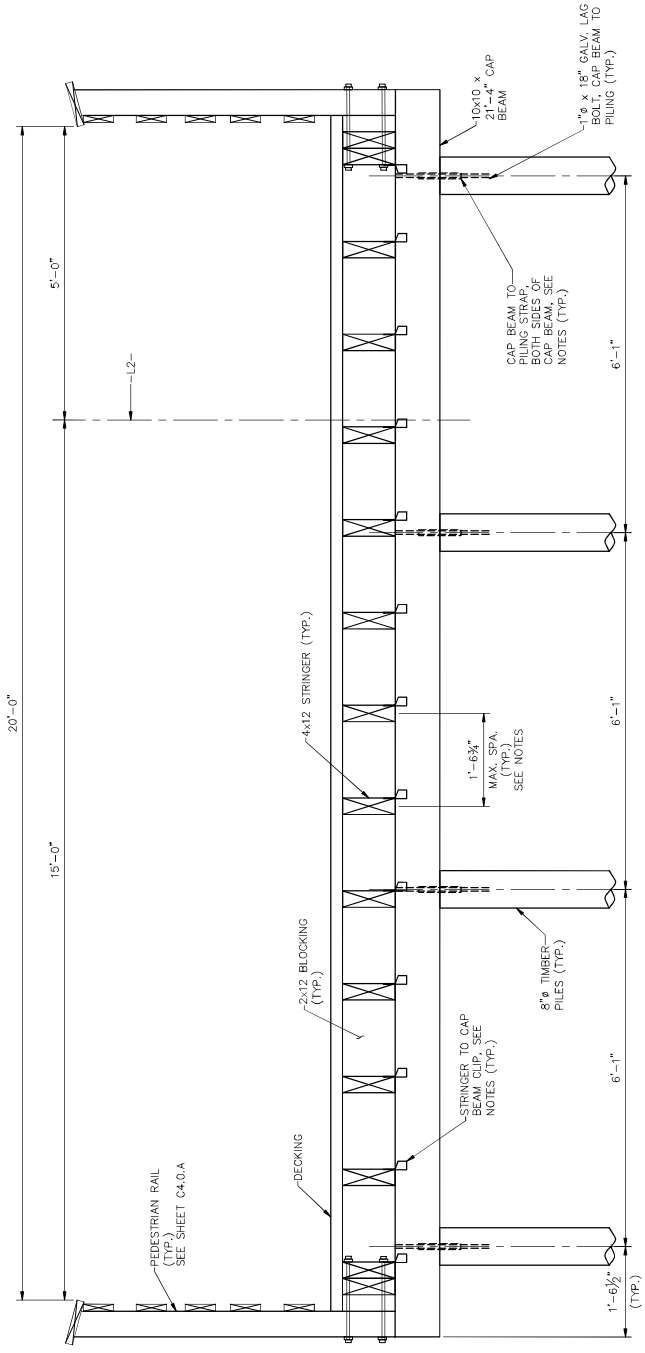
TIMBER BOARDWALK BRACING AND PILE DETAILS

GREENVILLE  
 CITY OF GREENVILLE  
 WILWOOD PARK - TOWER AND TRAILS - PACKAGE A

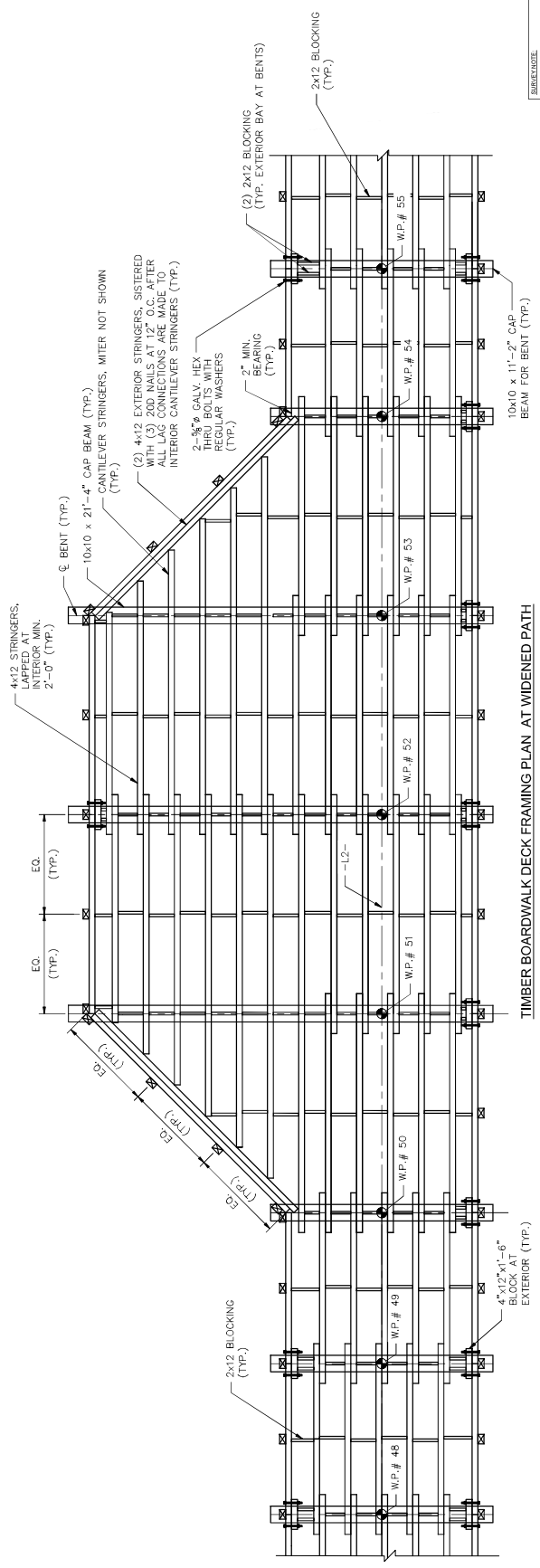
SHEET NUMBER  
**S.12.A**



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TIMBER BOARDWALK BENT ELEVATION AT WIDENED PATH

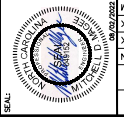


TIMBER BOARDWALK DECK FRAMING PLAN AT WIDENED PATH  
(PILES AND DECKING NOT SHOWN FOR CLARITY)

- NOTES**
- STRINGER TO CAP BEAM CLIP SHALL BE:
    1. USP #12 RINGING TIE L151Z
    2. OR APPROVED EQUAL
    3. OR APPROVED EQUAL
  - CAP BEAM TO PILING STRAP SHALL BE:
    1. STIMPSON MSTA12 FLAT STRAP
    2. USP MSTA12 FLAT STRAP
    3. OR APPROVED EQUAL
  - CONNECT CANTILEVER STRINGERS WITH (3) 20D NAILS AT 12" O.C. AFTER EXTERIOR STRINGER PRIOR TO SISTERING. USE 3/4" x 12" LAG SCREWS, PROVIDE 2 1/2" MIN. BEARING AND BOTTOM OF STRINGER TO LAG SCREWS.
  - STRINGERS MAY BE SPACED AS NECESSARY WITHOUT EXCEEDING BEARING SPAN OF 1'-6 1/2".

No.	ISSUED FOR	REVISIONS	DATE	BY
1			08/02/22	MSA

**Kimley-Horn**  
#--0102  
421 PATENTVILLE STREET, SUITE 600, PATTON, NC 27661  
PHONE: 919-871-5000 FAX: 919-437-7050  
WWW.KIMLEY-HORN.COM



KHA PROJECT	0121584010
DATE	08/02/2022
SCALE	AS SHOWN
DESIGNED BY	BMK
BRN BY	JMK
CHECKED BY	KDM

WIDENED DECK  
DETAILS

WILWOOD PARK -  
TOWER AND TRAILS  
PACKAGE A  
PREPARED FOR  
CITY OF GREENVILLE

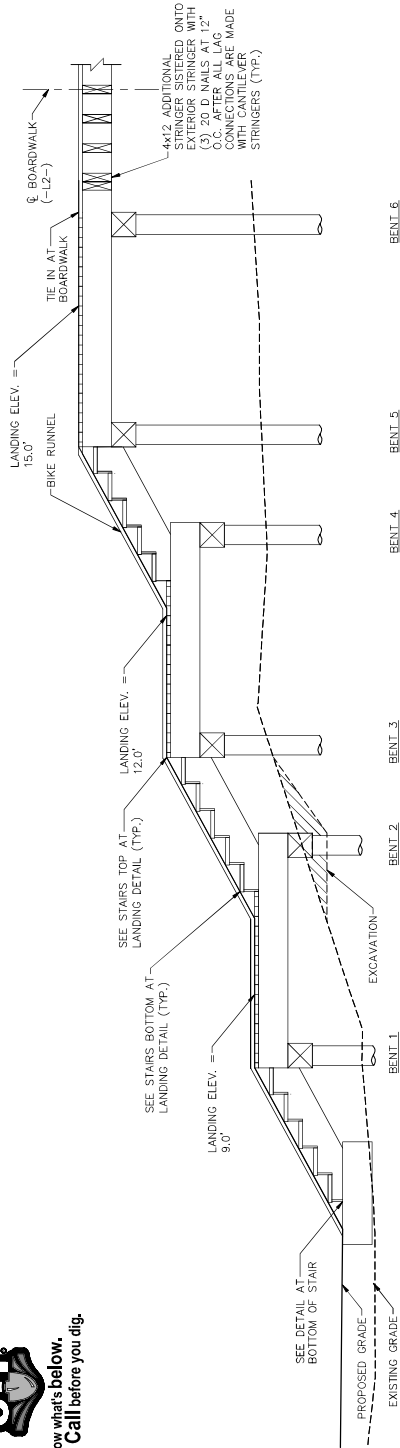
SHEET NUMBER  
S.13A

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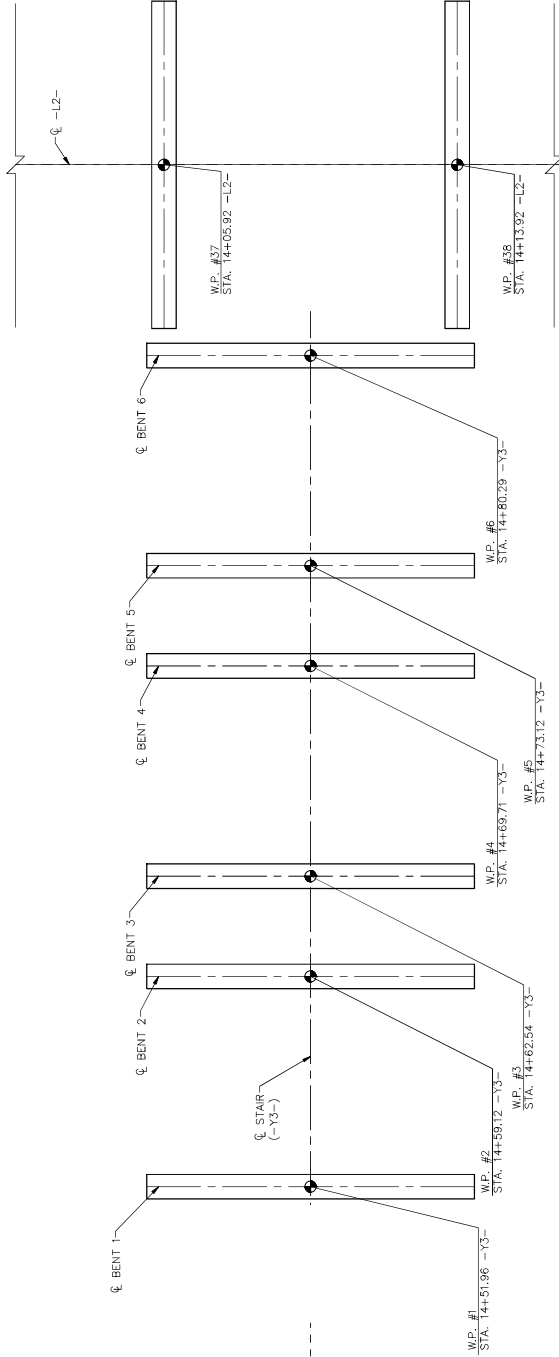
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STAIR ELEVATION



STAIR PLAN



GRAPHIC SCALE IN FEET  
0 4

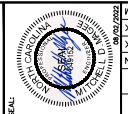
DATE: 08/02/2022  
SCALE: AS SHOWN  
PERSON: JMK  
CHECKED: JMK  
KHA PROJECT: 012551010

STAIR PLAN AND PROFILE

WILWOOD PARK - TOWER AND TRAILS - PACKAGE A  
CITY OF GREENVILLE  
GREENVILLE

SHEET NUMBER  
S.14.A

Kimley-Horn & Associates, Inc.  
2022 KIMLEY-HORN AND ASSOCIATES, INC. 27601  
421 FAYETTEVILLE STREET, SUITE 600, RALPHOKE, NC 27601  
PHONE: 919-877-2000 FAX: 919-877-2050  
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1	ISSUED FOR BID	08/02/22	MSA
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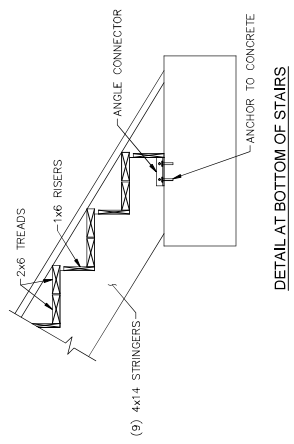
**Kimley-Horn**  
 421 PAVETTILLE STREET, SUITE 600, RALEIGH, NC 27601  
 PHONE: 919-877-8000 FAX: 919-877-2050  
 WWW.KIMLEY-HORN.COM  
 #1-012

KHA PROJECT: 012184010  
 DATE: 08/02/2022  
 DESIGNED BY: BMR  
 CHECKED BY: JMK  
 SCALE: AS SHOWN

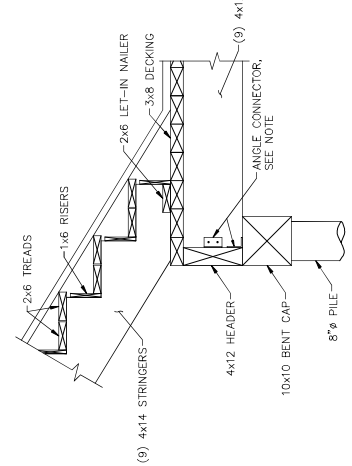
**WILWOOD PARK - TOWER AND TRAILS - PACKAGE A**  
 PREPARED FOR: CITY OF GREENVILLE  
 SHEET NUMBER: S.15.A

**NOTES**

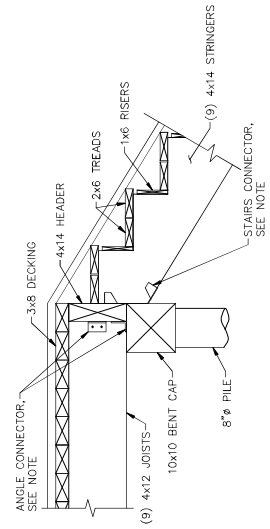
STAIR GEOMETRY AND DETAILS SHOWN ARE CONCEPTUAL. STAIRS SUBJECT TO SUBMIT GEOMETRY AND DETAILS FOR APPROVAL.



**DETAIL AT BOTTOM OF STAIRS**



**STAIRS AT BOTTOM OF LANDING DETAIL**  
 2x12 FASCIA BEAMS NOT SHOWN FOR CLARITY

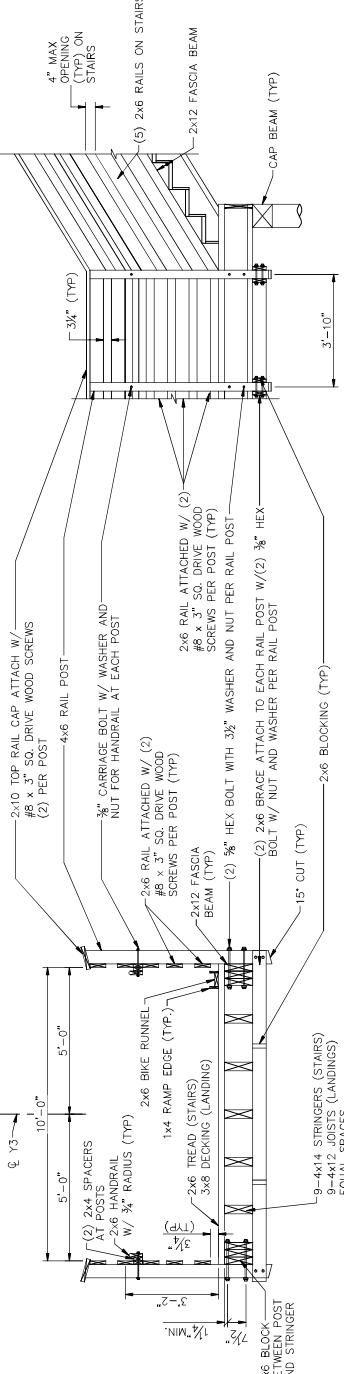
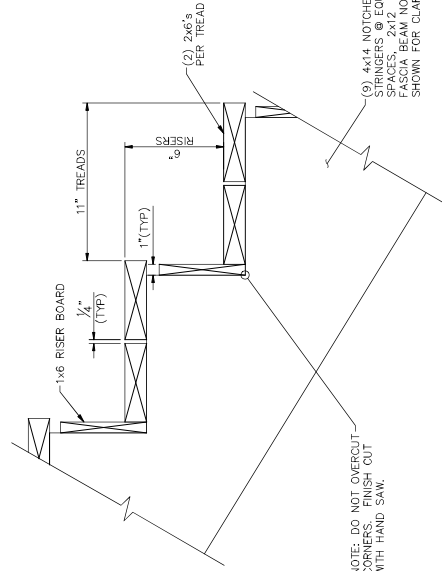


**STAIRS AT TOP OF LANDING DETAIL**  
 2x12 FASCIA BEAMS NOT SHOWN FOR CLARITY

- CONNECTOR NOTE:**  
 CUP CONNECTOR SHALL BE:  
 1. SIMPSON STRONG TIE L1512  
 2. USP TIE RT4  
 3. OR APPROVED EQUAL
- ANGLE CONNECTOR SHALL BE:**  
 1. SIMPSON STRONG TIE HCA10  
 2. USP GUSSET ANGLE LGA10  
 3. OR APPROVED EQUAL
- STAIRS CONNECTOR SHALL BE:**  
 1. SIMPSON STRONG TIE LSSR410Z  
 2. USP SLOPE HANGERS LSSR410Z  
 3. OR APPROVED EQUAL

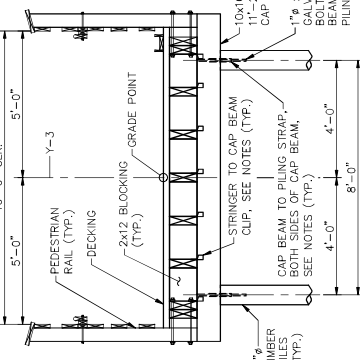
NOTE: DO NOT OVERCUT CORNERS. FINISH CUT WITH HAND SAW.

**TYPICAL RISER DETAIL**



**PARTIAL STAIRS ELEVATION**

**TYPICAL SECTION THROUGH STAIRS**  
 NOTE: SECTION CUT AT NOSE OF STAIR TREAD



**TIMBER STAIR BENT ELEVATION**

**CURVE NOTE:**  
 ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY WARRIS & ASSOCIATES. THE CLIENT HAS REVIEWED AND APPROVED THIS INFORMATION. THESE SURVEYS ARE DATED 05/11/2022.

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DESIGN DATA:

- SPECIFICATIONS --- A.A.S.H.T.O. (CURRENT)
- LIVE LOAD --- SEE PLANS
- IMPACT ALLOWANCE --- SEE A.A.S.H.T.O.
- STRESS IN EXTREME FIBER OF STRUCTURAL STEEL --- 20,000 LBS. PER SQ. IN. --- AASHTO M270 GRADE 50W --- 27,000 LBS. PER SQ. IN. --- AASHTO M270 GRADE 50 --- 27,000 LBS. PER SQ. IN.
- REINFORCING STEEL IN TENSION --- GRADE 60 --- 24,000 LBS. PER SQ. IN.
- CONCRETE IN COMPRESSION --- 1,200 LBS. PER SQ. IN.
- STRUCTURAL TIMBER --- TREATED OR UNTREATED --- SEE A.A.S.H.T.O.
- EXTREME FIBER STRESS --- 1,600 LBS. PER SQ. IN.
- COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER --- 375 LBS. PER SQ. IN.
- EQUIVALENT FLUID PRESSURE OF EARTH --- 30 LBS. PER CU. FT. (MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2018 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CURBS, PARAPETS, AND APPROACH SLABS, AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 1/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1/2" RADIUS WHICH IS BUILT UP TO THE FINISH SURFACE. ALL OTHER CORNERS SHALL BE ROUNDED TO 1/4" RADIUS. FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS, AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

STANDARD NOTES

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE.

ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD SHALL BE DIMENSIONS TO THE CENTER OF THE MEMBER UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE THE ELEVATIONS ARE GIVEN TO THE TOP OF THE MEMBER, THE ELEVATIONS OF THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDNATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF ACTUAL BEAM CAMBER, THE BEARING SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDNATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR THE DETAIL CONSTRUCTION OF THE FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE CUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN SUPPORTING MESH, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING MESH SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 3/4" SHEAR STUDS FOR THE 1/2" STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 2 - 1/2" STUDS FOR EVERY 1 - 1/2" STUDS, AND STUD SPACING SHALL BE MAINTAINED AS SHOWN ON THE PLANS. THE MAXIMUM NUMBER OF 3/4" STUDS ALONG THE BEAM AS SHOWN FOR 1/2" STUDS BASED ON THE RATIO OF 3 - 3/4" STUDS FOR 4 - 1/2" STUDS. THE MAXIMUM SPACING LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED.

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE 1/2" COVER PLATES FOR THE 3/4" COVER PLATES. WHERE EQUIVALENT AREA PROVIDED, THESE PLATES ARE AT LEAST 1/2" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF GULLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT AISC SPECIFICATION. ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER STRUCTURES, ALL SURFACES OF STRUCTURES SHALL BE FINISHED AND SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/8" GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAILS AND CONCRETE POSTS USED WITHIN THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE AND OTHER STRUCTURES. UNLESS UNIFORM APPEARANCE, FINIS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DEFECTS SHALL BE REJECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 103-4.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA

Kimley-Horn and Associates, Inc.  
2022 KIMLEY-HORN ASSOCIATES, INC.  
918 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601  
PHONE: 919-877-0800 FAX: 919-877-0801  
WWW.KIMLEY-HORN.COM  
#-0102

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

STRUCTURAL STANDARD NOTES

WILWOOD PARK - TOWER AND TRAILS - PACKAGE A  
CITY OF GREENVILLE  
GREENVILLE

SHEET NUMBER  
S.16.A

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