# RIVER PARK NORTH ACCESSIBLE WATER SPORTS FACILITY SITE IMPROVEMENTS

Greenville, North Carolina

ISSUED FOR BID

March 07, 2018 The East Group Project No. 20170106

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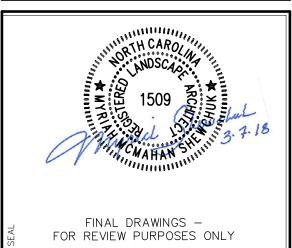
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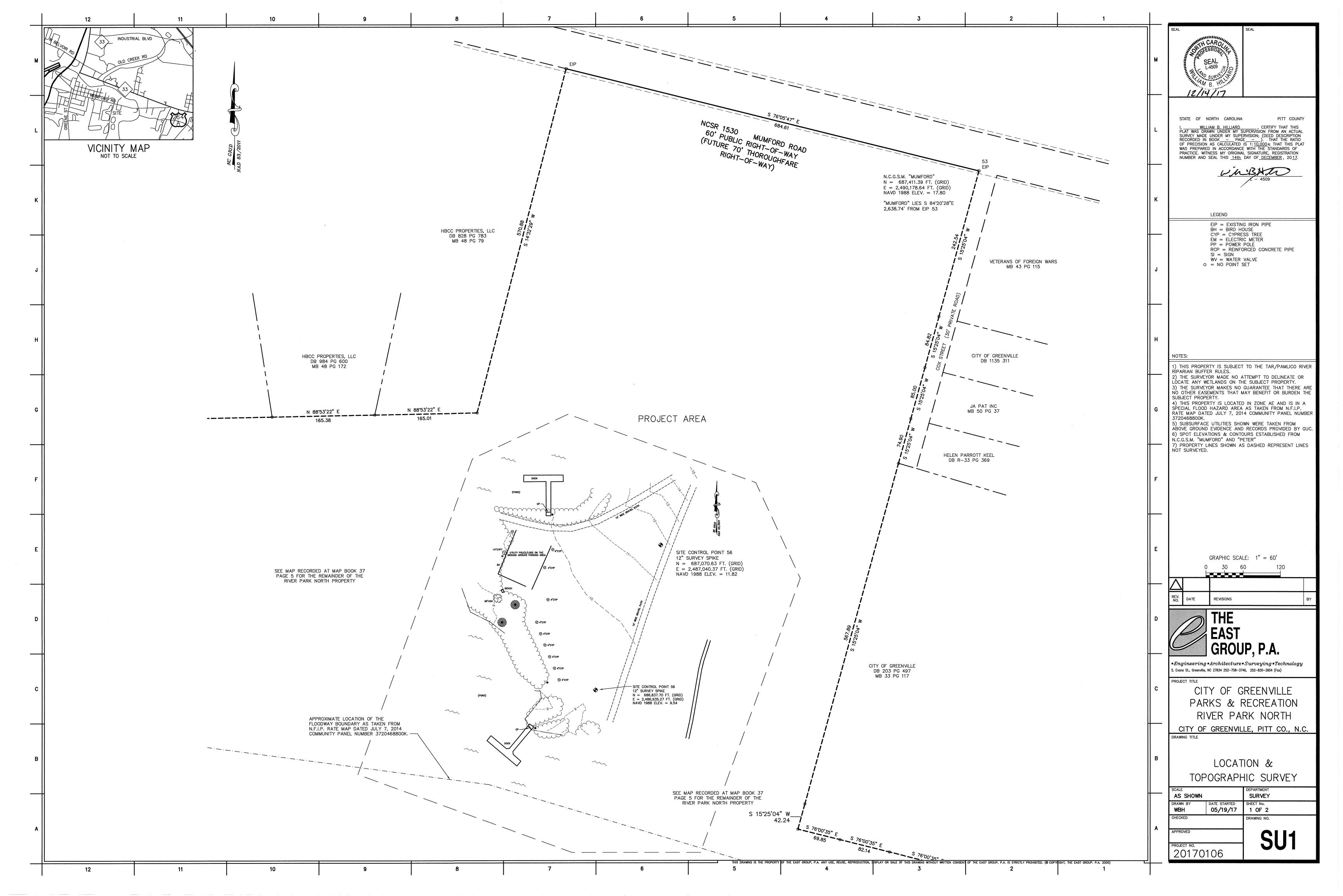
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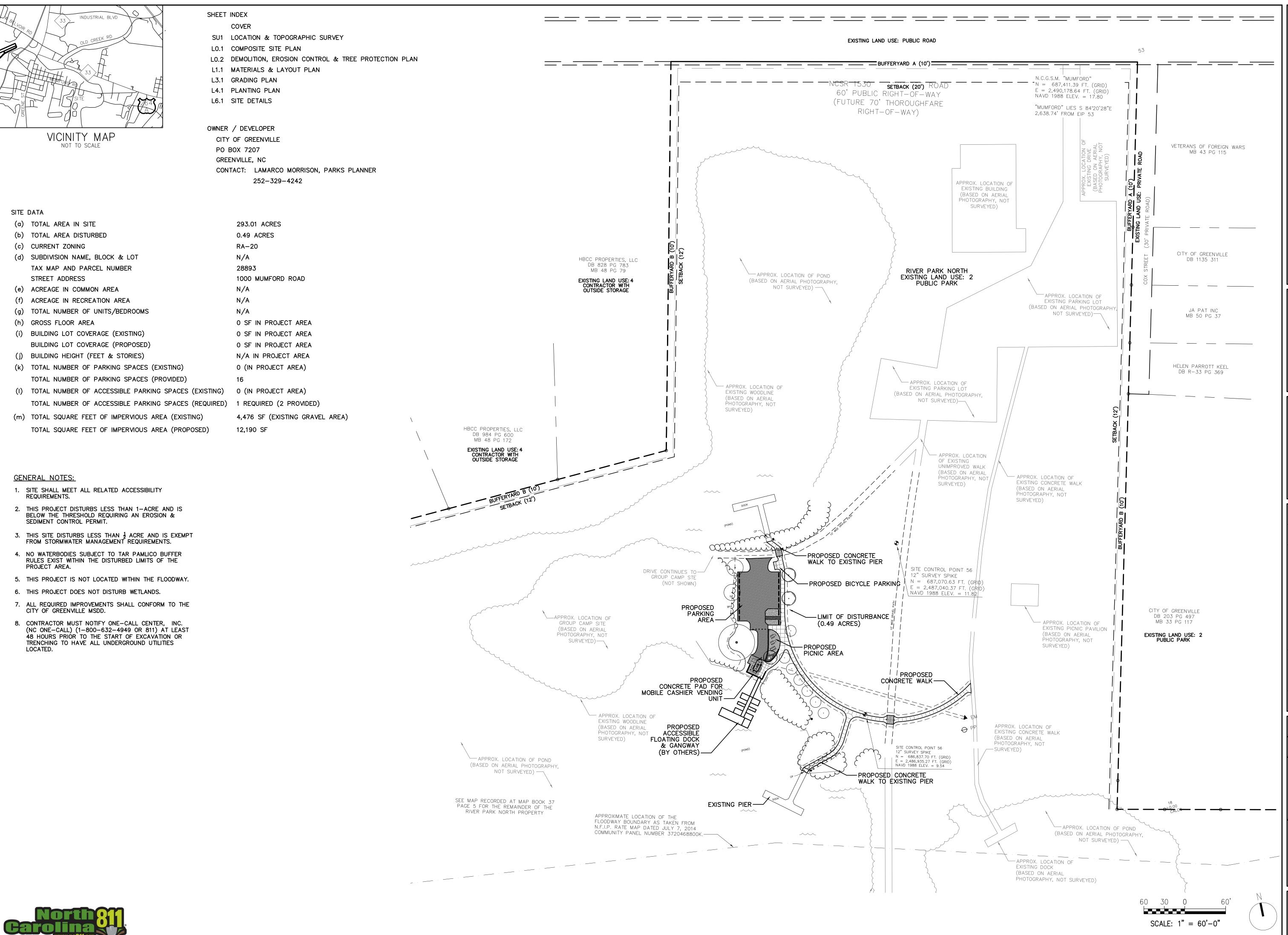


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DATE	03/07/18	03/07/18				
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CITY OF GREENVILLE RIVER PARK NORTH ACCESSIBLE WATER SPORTS FACILITY SITE IMPROVEMENTS

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SEAL

FINAL DRAWINGS FOR REVIEW PURPOSES ONLY

REV DATE DESCRIPTION

A 03/07/18 ISSUED FOR SITE PLAN REVIEW

B 03/07/18 ISSUED FOR BID

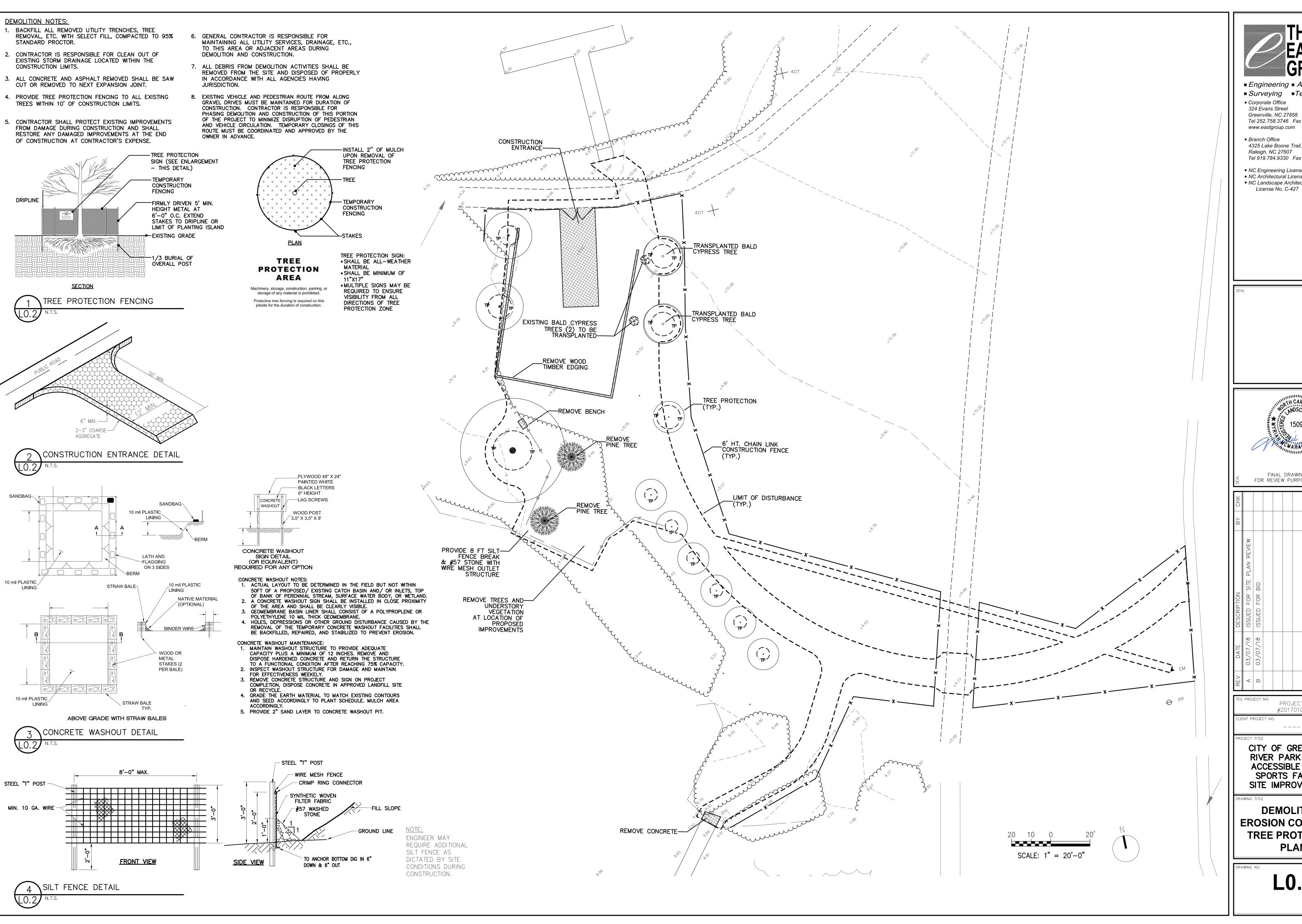
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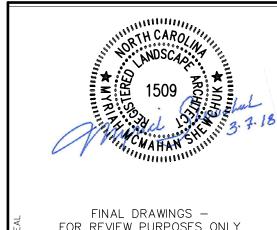
> COMPOSITE SITE PLAN

> > L0.1

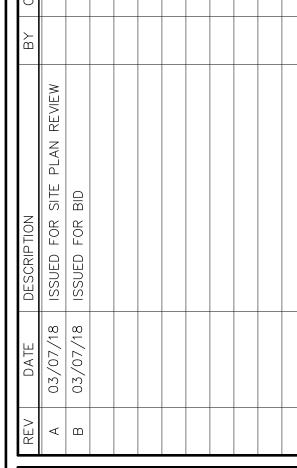




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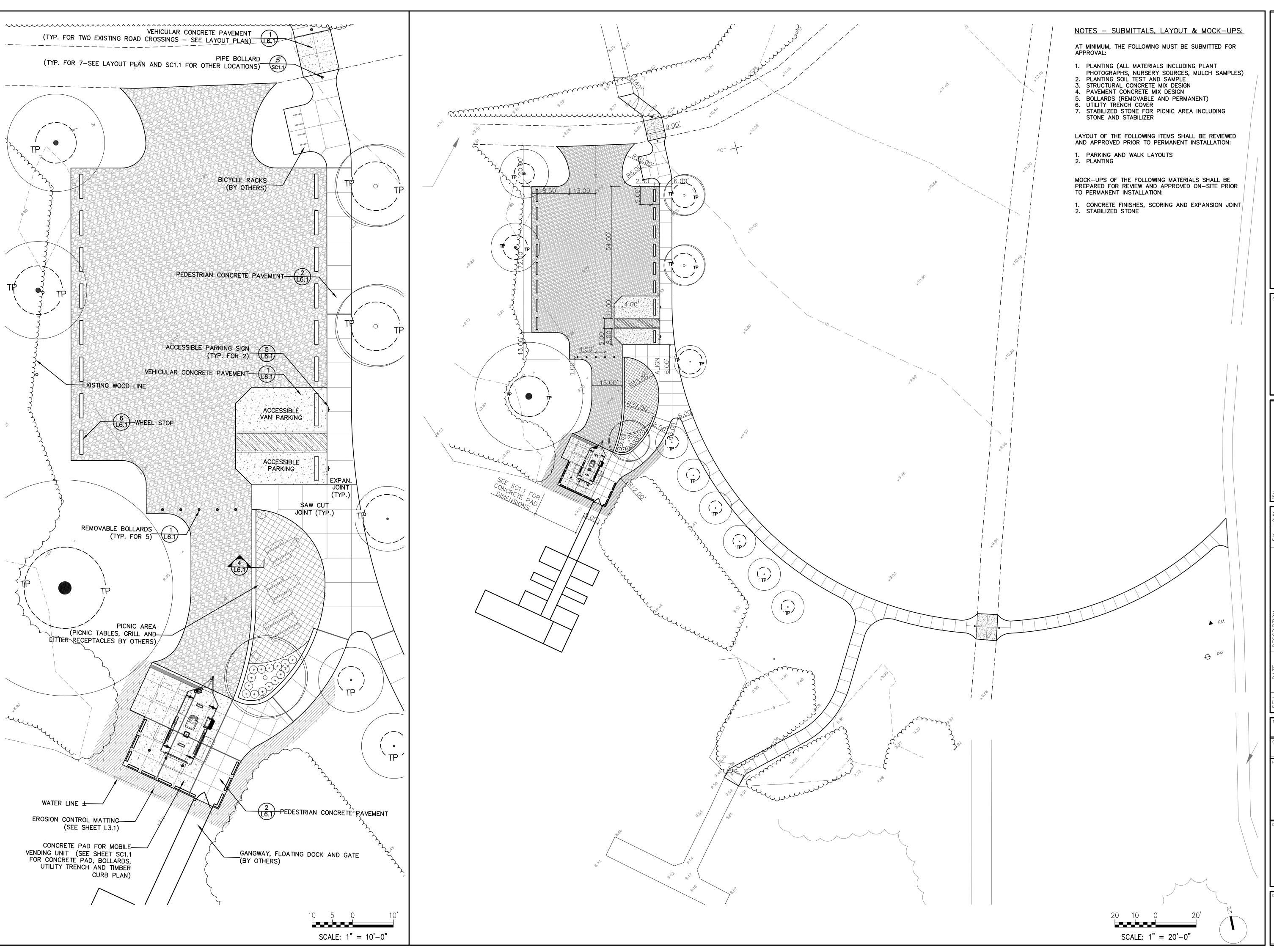
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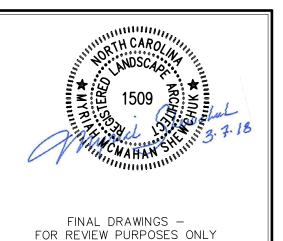
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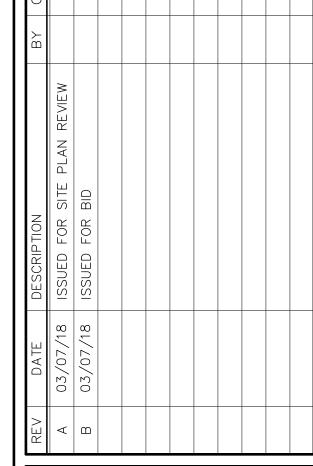
DEMOLITION, **EROSION CONTROL &** TREE PROTECTION **PLAN** 





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PROJECT NO.
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PROJECT NO.

CITY OF GREENVILLE RIVER PARK NORTH ACCESSIBLE WATER SPORTS FACILITY SITE IMPROVEMENTS

LAYOUT AND MATERIALS PLAN

L1.1

# CITY OF GREENVILLE EROSION NOTES: SCHEDULING OF A PRECONSTRUCTION CONFERENCE WITH THE ENGINEERING DIVISION IS REQUIRED PRIOR TO INITIATING LAND DISTURBING ACTIVITIES. FOR SCHEDULING PLEASE CALL (252) 329-4467. A 24-HOUR NOTICE IS REQUIRED. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING THE CITY OF THE DATE OF LAND DISTURBING ACTIVITY. 2. NO LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MEASURES MAY PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY CITY OF GREENVILLE. 5. SEED AND MULCHING OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 14 WORKING DAYS OF COMPLETING ANY PHASE OF GRADING. . CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN ISSUANCE OF A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5,000 PER DAY OF VIOLATION. STIES UTILIZING SEDIMENT TRAPS MUST ALSO SPECIFY A MAXIMUM DEPTH OF SEDIMENT PRIOR TO CLEAN OUT. THE CITY ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE -PLEASE BE ADVISED OF THE RULES TO PROTECT AND

- PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE. 3. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATIONS, AND RULES. IN ADDITION, LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND-DISTURBING ACTIVITY. APPROVAL BY THE CITY DOES NOT SUPERCEDE ANY OTHER PERMIT OR APPROVAL. MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER QUALITY (DWQ). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR,
- 7. INSTALL INLET PROTECTION AROUND ALL CATCH BASINS. DROP INLETS OR INLET STRUCTURES WITHIN THE CONSTRUCTION/ DISTURBED AREA.

WASHINGTON REGIONAL OFFICE AT (252) 946-6481.

8. CONTRACTOR SHALL PROVIDE MEASURES TO CLEAN ANY SOILS OR SEDIMENT THAT IS TRACKED, PLACED, OR FLOWS ONTO EXISTING PAVEMENT AND IMPROVED SURFACES THAT ARE TO REMAIN.

# **GRADING NOTES:**

- I. ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM FILL AREAS PRIOR TO PLACING FILL. ANY QUESTIONABLE OR UNSUITABLE SOIL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 2. AFTER STRIPPING TOPSOIL AND PRIOR TO PLACING FILL, IT IS RECOMMENDED THAT ALL BUILDING, PARKING AND DRIVEWAY AREAS BE ROLLED WITH A VIBRATORY ROLLER TO CONSOLIDATE LOOSE SOILS IN THE UPPER SUBGRADE. COMPACTION TEST RESULTS OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY WILL BE REQUIRED PRIOR TO ENGINEER'S APPROVAL FOR FILL PLACEMENT. CONTRACTOR SHALL CONTACT THE ENGINEER AND SCHEDULE A PROOF ROLL FOR SUBGRADE AND WHEN
- AGGREGATE BASE COURSE HAS BEEN INSTALLED. 3. ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE
- STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). ALL CULVERT CLEANOUT MUST BE DONE SUCH THAT THE SEDIMENT IS EITHER EXTRACTED OR BLOWN UPSTREAM FOR CLEANUP. UNDER NO CIRCUMSTANCES SHALL SEDIMENT BE BLOWN DOWNSTREAM.
- 5. GRADING CONTRACTOR SHALL TEMPORARY SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS WITHIN 14 DAYS OF COMPLETION OF GRADING WORK. UPON COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL INSTALL PERMANENT SEEDING AS OUTLINED IN THE SPECIFICATIONS. ALL DRAINAGE PIPES SHALL BE CLEANED BY THE GENERAL CONTRACTOR TO REMOVE ANY SEDIMENTS THAT HAVE ACCUMULATED.
- 6. ALL EXCESS TOPSOIL STRIP MATERIAL TO BE HAULED OFF-SITE AND DISPOSED OF AT AN APPROVED SITE.
- 7. ALL PLANTING AREAS SHALL BE BACKFILLED WITH TOPSOIL AND RAKED DOWN, REMOVING ALL CLODS AND ROOTS, AND LEFT READY FOR SEEDING AND PLANTING.

# **MAINTENANCE PLAN:**

- . ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND SEPERATION FOLLOWING EVERY 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT. BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5 FT DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE / EXIT WILL BE INSPECTED PERIODICALLY. WHEN MUD BEGINS TO BUILD-UP. THE ENTRANCE WILL BE BLADED OFF REMOVING THE MUD. ADD NEW STONE TO ENTRANCE AS NEEDED.
- ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATION IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

# **CONSTRUCTION SEQUENCE:**

- 1. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE/EXIT. 2. DISTURB LAND ONLY AS NECESSARY TO INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. INSTALL ADDITONAL EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED OR AS
- DIRECTED BY THE ENGINEER. PERFORM SITE CLEARING AND DEMOLITION, IN ACCORDANCE WITH PLANS, INCLUDING REMOVAL OF EXISTING PAVEMENT, CURB & GUTTER, SIDEWALK, AGGREGATE BASE COURSE, TREES, SHRUBS, ETC. FROM THE SITE AND DISPOSE OF DEBRIS AT AN APPROVED SITE. PRIOR TO AND
- DURING DEMOLITION PHASE INSTALL APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES.
- 4. BEGIN GRADING THE SITE. 5. BEGIN EXCAVATION FOR UNDERGROUND CONSTRUCTION. CONSTRUCT
- UNDERGROUND IMPROVEMENTS. 6. CONSTRUCT SITE IMPROVEMENTS.
- 7. MAINTAIN EROSION AND SEDIMENTATION MEASURES DURING CONSTRUCTION. CHECK THE MEASURES FOR FAILURE AND AVAILABLE SEDIMENT STORAGE AFTER EACH SIGNIFICANT RAINFALL
- 8. MULCH AND SEED ALL DISTURBED AREAS. ANY SLOPES LEFT EXPOSED WILL WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
- 9. COMPLETE CONSTRUCTION OF ALL PROPOSED IMPROVEMENTS.
- 10. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE
- PERMANENT VEGETATION IS ESTABLISHED.
- 11. TIME OF EXPOSURE IS APPROXIMATELY 1 MONTH OR UNTIL COMPLETION AND STABILIZATION OF THE SITE. CONTRACTOR SHALL PREPARE FOR MAINTENANCE OF THE SITE EROSION AND SEDIMENTATION MEASURES APPROPRIATE FOR THE EXPECTED DURATION.

# SEED BED PREPERATION NOTES

1. SCARIFY SOIL TO A DEPTH OF THREE (3) INCHES AND WORK INTO A SATISFACTORY SEED BED BY DISKING, USE OF CULTIPACKERS, HARROWS, DRAGS AND OTHER APPROVED MEANS.

2. PREPARATION OUTLINED ABOVE SHALL NOT BE DONE WHEN THE SOIL IS FROZEN, WET OR OTHERWISE IN AN UNFAVORABLE CONDITION.

3. BEGIN AND COMPLETE SEEDING OPERATIONS AS OUTLINED AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, BUT IN NO EVENT LATER THAN 14 CALENDAR DAYS AFTER COMPLETION OF FINAL GRADING.

4. SEEDING AND MULCHING OPERATIONS SHALL NOT BEGIN UNTIL ELECTRICAL SERVICE HAS BEEN INSTALLED WITHIN THE PROJECT, UNLESS DIRECTED BY THE

5. DISTRIBUTE LIME AND FERTILIZER, UNIFORMLY OVER SEED BED AND HARROW, RAKE, OR OTHERWISE WORK SAME INTO SEED BEDS.

6. DISTRIBUTE SEED UNIFORMLY OVER SEED BED. COVER SEED LIGHTLY AFTER SEEDING.

7. NO LIME, FERTILIZER, OR SEED SHALL BE APPLIED DURING A STRONG WIND, WHEN SOIL IS WET OR OTHERWISE UNWORKABLE. SHOULD RAIN FOLLOW SEEDING BEFORE ROLLING IS BEGUN, THE BED SHALL NOT BE ROLLED.

# SEEDING AND MULCHING

ALL ROADWAY AREAS

MARCH 1	- AUGUST 31	SEPTEMBER	1 – FEBRUARY 28
50#	TALL FESCUE	50 <b>#</b>	TALL FESCUE
I0#	CENTIPEDE	10#	CENTIPEDE
 25 <b>#</b>	BERMUDAGRASS (HULLED)	35#	BERMUDAGRASS (HULLED
500#	FERTILIZER	500#	FERTILIZER
400Ö#	LIMESTONE	4000#	LIMESTONE

# WATER AND DODDOW LOCATIONS

	WATER AND BORROW L	OCATIONS	
ARCH 1	- AUGUST 31	SEPTEMBER 1	- FEBRUARY 28
5#	TALL FESCUE	75#	TALL FESCUE
5#	BERMUDAGRASS (HULLED)	35#	BERMUDAGRASS (HULLED)
)Ö#	FERTILIZER	500#	FERTILIZER
าดดี#	LIMESTONE	4000#	LIMESTONE

NOTE: 50# OF BAHIAGRASS MAY BE SUBSTITUTED FOR EITHER CENTIPEDE OR BERMUDAGRASS ONLY UPON ENGINEER'S REQUEST.

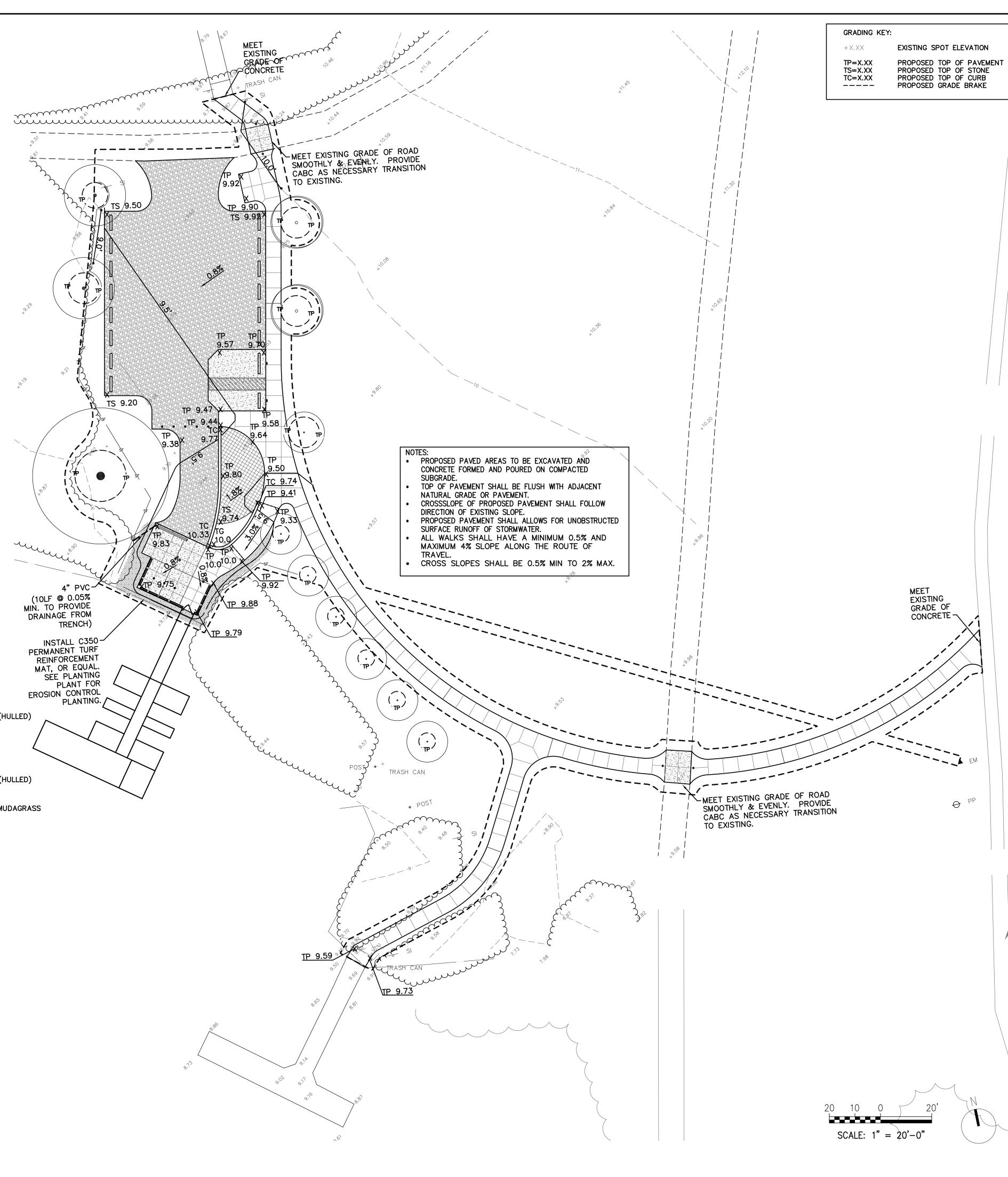
G	ROUND STABILIZA	ATION
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
* PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
* HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
* SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
* SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
* ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

# TEMPORARY SEEDING

APR 15-AUG 14 GERMAN MILLET 50 LBS/ACRE

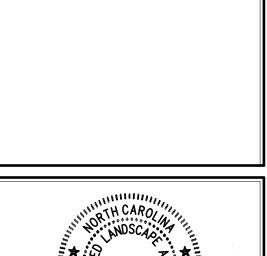
AUG 15-APR 14 RYE (GRAIN) 50 LBS/ACRE

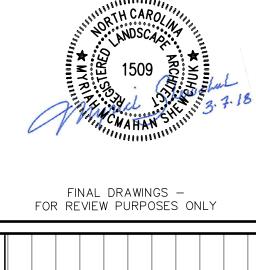
YEAR ROUND FERTILIZER 10-20-20 ANALYSIS 400 LBS/ACRE





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PROJECT

CITY OF GREENVILLE RIVER PARK NORTH ACCESSIBLE WATER SPORTS FACILITY SITE IMPROVEMENTS

> GRADING PLAN

# EGETATION REQUIREMENTS

PER ARTICLE P, CITY OF GREENVILLE, NC ZONING REGULATIONS

SITE DATA:

A. REQUIRED VEGETATION PER ACRE FOR 0.49 ACRE SITE:

THE FOLLOWING IS BASED ON SECTION 9-4-263(A)(2)SITE VEGETATION MATERIAL REQUIREMENTS (PER ACRE)

LARGE TREES (1) 1 SHOWN

SMALL TREES (10)

5 EXISTING 4" CAL. LARGE TREE (SUBSTITUTED FOR 10

SMALL TREES)

SHRUBS (15) 15 SHOWN

PROPOSED VEGETATION SUBSTITUTIONS

\* ONE LARGE TREE FOR 2 SMALL TREES \*\* ONE 24" OR MORE CALIPER LARGE TREE MAY SUBSTITUTE FOR 5 SMALL

B. REQUIRED STREET TREE VEGETATION:

NOT APPLICABLE - PROJECT NOT ADJACENT TO RIGHT-OF-WAY

C. REQUIRED SCREENING VEGETATION FOR BUFFERYARDS: NONE

NOT APPLICABLE - PROJECT IS ENTIRELY WITHIN RIVER PARK NORT

). REQUIRED VEGETATION LOCATED IN PUBLIC UTILITY OR DRAINAGE EASEMENTS: NONE

A. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS AS FOLLOWS:

PLANTING MATERIAL TYPE

1. LARGE TREE - SINGLE STEM MULTI-STEM SMALL TREE

3. SHRUB

10' (HEIGHT) AND 2" CALIPER 10' (HEIGHT)

MINIMUM PLANTING SIZE

8' (HEIGHT) AND 1.5" CALIPER 18" (HEIGHT), EXCEPT AS PROVIDED UNDER SECTION 9-4-267(a)

B. NO PORTION OF ANY PARKING AREA, INCLUDING ANY DRIVEWAY, PARKING SPACE, DRIVE AISLE OR TURNING AREA, SHALL BE LOCATED MORE THAN THIRTY (30) FEET FROM AN ON-SITE SMALL TREE OR MORE THAN SEVENTY-FIVE (75) FEET FROM AN ON-SITE LARGE TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE FARTHEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE.

C. SITE PLAN APPROVAL FROM THE RESPECTIVE EASEMENT HOLDER SHALL BE CONSTRUED AS APPROVAL OF ALL ENCROACHMENTS, AS SHOWN. ON THIS PLAN. (SEE NOTE ON ITEM 1.D.)

. THE FOLLOWING VEGETATION MATERIALS, AS LISTED BY COMMON NAME, SHALL CONSTITUTE NOT MORE THAN TWENTY-FIVE (25) PERCENT OF THE TOTAL REQUIREMENT FOR THE SPECIFIC CATEGORY:

LARGE TREE CATEGORY: SMALL TREE CATEGORY: RIVER BIRCH ARISTOCRAT PEAR BRADFORD PEAR CAPITOL PEAR

RED TIP PHOTINIA

CLEVELAND SELECT PEAR

EVERGREEN SHRUB CATEGORY:

DUMPSTER/COMPACTOR SHALL BE SCREENED ON 3 SIDES IN ACCORDANCE WITH SECTION 9-4-268 (h) OF THE CITY CODE.

EXISTING SUBSTITUTE VEGETATION MATERIALS HAVE BEEN NOTED INCLUDING THEIR SPECIFIC LOCATION(S), TYPE(S), AND SIZE(S).

EXISTING SUBSTITUTE VEGETATION MATERIAL SHALL BE PROTECTED FROM SITE DEVELOPMENT ACTIVITIES IN ACCORDANCE WITH SECTION 9-4-265 (F) OF THE CITY CODE.

H. NO LARGE TREES TO BE PLANTED WITHIN SANITARY SEWER OR WATERLINE EASEMENTS.

PARKING LOT AREA TO BE SCREENED IN ACCORDANCE WITH SECTION 9-4-268(L)9 OF THE CITY CODE. PARKING AREA SCREENING SHALL BE INSTALLED WITHIN A 10 FOOT AREA ADJACENT TO AND EXTENDING THE FULL STREET SIDE WIDTH OF ALL PARKING AREAS WHICH FRONT A PUBLIC OR PRIVATE STREET.

J. MINIMUM OF 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.

K. VEGETATION WITHIN 10' OF BUILDING SHALL NOT COUNT TOWARD SITE REQUIREMENTS.

# PLANTING SCHEDULE

Symbol	Key	Quantity	Botanical Name (Common Name)	Height	Spread	Caliper	Root	Notes
LARGE TRE	E							
	TD	1	Taxodium distichum (Bald Cypress)	10-12'	7-8'	2 <u>1</u> 3"	B&B	Branching @ 5-6'; specimen; Straight leader; full crown
				•				

# SHRUBS

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	IV	15	Itea virginica 'Little Henry' (Little Henry Sweetspire)	18" min.	24" min.	-	3 gal.	Full; Heavy; Plant @ 2' oc.
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See slope stabilization planting notes for species and layout.

SLOPE STABILIZATION PLANTINGS

<u>SHALLOW LAND PLANTS - QUANTITY 125</u> PLANTS SHALL BE INSTALLED BETWEEN THE PERMANENT WATER LEVEL AND THE TOP OF THE VEGETATED SHELF OR 6 VERTICAL INCHES BELOW PERMANENT WATER LEVEL (THE 'SHALLOW LAND' ZONE). APPROXIMATELY ONE PLANT WILL BE INSTALLED PER 4 SQUARE FEET OF SHELF (2' O.C.). ANY OF THE FOLLOWING SPECIES MAY BE UTILIZED. AT LEAST 3 SPECIES SHALL BE UTILIZED, WITH NO MORE THAN 50% OF ANY SINGLE SPECIES.

CONOCLINIUM COELESTINUM WILD AGERATUM SPOTTED JOE PYE WEED EUTROCHIUM MACULATUM CRIMSONEYED ROSEMALLOW HIBISCUS MOSCHEUTOS PATH RUSH JUNCUS TENUIS BITTER PANICUM PANICUM AMARUM

PLANT SELECTION

• ALL PLANTS FOR THE VEGETATED SHELF SHALL BE NURSERY PROPAGATED AND GROWN IN

CONTAINERS OF 4.5 CUBIC INCHES OR GREATER CAPACITY ('LARGE PLUGS'). • ALL PLANTS SHALL BE HEALTHY WITH VIGOROUS ROOT SYSTEMS.

• NON-DORMANT PLANTS SHOULD HAVE TOP GROWTH AT LEAST 6" TALL

• SEED CANNOT BE USED TO ESTABLISH VEGETATION ON THE SHELF. • ALL PLANTS INSTALLED ON THE VEGETATED SHELF MUST BE NATIVE TO EASTERN NORTH CAROLINA.

• THE GENETIC ORIGIN OF THE PLANTS SHALL BE AS CLOSE AS FEASIBLE TO THE WETLAND SITE. • EXCEPT FOR PROVENANCE, GENETIC DIVERSITY IS ENCOURAGED AND CULTIVARS SHOULD NOT BE

• PLANTS MAY BE INSTALLED ON THE UPPER HALF OF THE VEGETATED SHELF AT ANY TIME OF YEAR, PROVIDED SOIL IS KEPT MOIST FOR 6 WEEKS FROM THE TIME OF INSTALLATION.

INSTALLATION AND AFTERCARF

• THE INSTALLER MUST TAKE GREAT CARE TO ENSURE THAT PLANTS AWAITING INSTALLATION ARE KEPT MOIST AND SHADED AT ALL TIMES. UNDER NO CIRCUMSTANCES SHALL PLANT ROOTS BE ALLOWED TO DRY OUT DURING TRANSPORT, STORAGE OR INSTALLATION

• ALL PLANTS SHALL BE INSTALLED AS LARGE DRIFTS (MIN. 50 LF/SPECIES) OF A SINGLE PLANT SPECIES. PLANTS SHOULD BE INSTALLED AT THE RATE OF ONE PLANT PER 4 SQUARE FEET. • PLANTING HOLES OR SLITS FOR SPECIES INSTALLED IN SHALLOW LAND ZONE SHALL BE DEEP ENOUGH TO ALLOW THE CROWN OF THE PLANT TO BE AT GRADE LEVEL, WHILE ROOTS EXTEND

**NECESSARY** • ONCE PLANTS ARE SET IN PLACE, SOIL MUST BE PRESSED GENTLY BUT FIRMLY AGAINST THE ENTIRE ROOT MASS, WORKING IN A DEEP TO SHALLOW DIRECTION, SO THAT WATER CAN MOVE VIA CAPILLARY ACTION FROM THE SOIL TO THE PLANT ROOTS.

VERTICALLY INTO THE SUBSTRATE WITHOUT KINKING. SOIL SHOULD NOT BE LOOSENED MORE THAN

• APPROXIMATELY 5 GRAMS OF A BALANCED SLOW RELEASE FERTILIZER SHALL BE INSTALLED NEXT TO EACH PLANT. FERTILIZER MAY BE OMITTED IF 6 INCHES OF HEALTHY TOPSOIL HAS BEEN PREVIOUSLY APPLIED OVER THE SHELF.

• THE INSTALLATION CONTRACTOR MUST ENSURE THAT THE SOIL IN EACH PLANTING AREA IS MOIST OR WET WHEN PLANTS ARE INSTALLED AND FOR 42 DAYS FOLLOWING INSTALLATION. UNDER CERTAIN WEATHER CONDITIONS THIS MAY REQUIRE THE INSTALLATION CONTRACTOR INSTALL A TEMPORARY IRRIGATION SYSTEM.

ALL PLANTINGS WILL BE CAREFULLY INSPECTED TO ENSURE QUALITY OF MATERIAL AND INSTALLATION. ALL PLANTINGS SHALL BE SUBJECT TO A ONE YEAR WARRANTY FOR 80% SURVIVAL.

PLANTS MEETING THESE SPECIFICATIONS ARE AVAILABLE FROM WETLAND PLANTS, INC. EDENTON, NORTH CAROLINA (WWW.WETLANDPLANTSINC.COM), OR APPROVED EQUAL

PLANTING NOTES

The Contractor shall furnish plant material shown on the drawings, as specified and as indicated on the plant list. The Owner or his/her authorized representative shall be notified prior to the beginning of planting operations.

PRE-CONSTRUCTION CONFERENCE: Prior to commencing plant and irrigation installation, a Pre-Construction Conference shall be held. Attendees shall include Owner, General Contractor, Landscape and Irrigation Contractor(s) and Project Consultant or their designated representatives.

STANDARDS: All plants shall be in accordance with the American Standard For Nursery Stock, latest edition, published by the American Association of Nurserymen, Inc. with regard to sizing and description.

QUALITY: All plants shall be nursery grown and hardy under climatic conditions similar to those in the locality of the project. All plants shall be typical of their species or variety and shall have a normal habit of growth. They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They should be free of disease and insect pests, eggs or larvae. They shall have healthy, well-developed root system.

contractor may make substitutions upon request, if approved by the Project Consultant. Proposal for substitution of plant material shall be submitted at least 10 days prior to the final bid date for consideration. SIZE: All plants shall conform to all measurements specified on the plant list unless otherwise authorized in

SUBSTITUTIONS: When plants of a specified kind or size are not available within a reasonable distance, the

writing by the Project Consultant. PRUNING: Each tree and shrub shall be pruned in accordance with American Association of Nurserymen, Inc. standards to preserve the natural character of the plant. All dead wood or suckers and all broken or badly

bruised branches shall be removed. ROOT SYSTEMS: Ball & burlap plants shall be dug with firm natural balls of earth of diameter and depth to include most of the fibrous roots. Container grown stock shall have been grown in a container long enough for the root system to have developed sufficiently to hold its soil together firm and whole. No plants shall be loose in

PROTECTION: Root balls trunks, branches and foliage of plants shall be adequately protected at all times from sun and drying wind or frost. Plants with broken root balls or excessive damage to the crown shall be replaced, in kind, prior to installation.

MULCH: Immediately following plant installations all tree and shrub planting pits shall be covered with four—inch (4") layer of triple shredded mulch (non-dyed). Ornamental Grasses and Perennial Flowers shall be covered with two-inch (2") layer. Final grade of mulch shall be ½" below adjacent surface or steel edging to prohibit washout or migration of mulch to adjacent surface.

ANTI-DESICCANT SPRAY: Trees and when planted in leaf shall be treated with anti-desiccant such as "Wilt-Proof".

TOPSOIL: Topsoil used shall be fertile agricultural soil; typical for locality; capable of sustaining vigorous plant growth; taken from drained sites; free of subsoil, rocks, stones, clay or impurities, plants, weeds and roots; pH value minimum 5.4, maximum 7.0; organic content 5 to 7 percent.

• All seed and sod areas shall have a minimum 6" of topsoil applied (depth after rolling).

• All groundcover and ornamental grasses shall have a minimum 12" of topsoil applied (depth after rolling). • All tree and shrub beds shall have a minimum 18" of topsoil applied (depth after rolling).

grading. The Contractor shall notify the Project Consultant if major adjustments are anticipated.

industry practice, only when directed by Project Consultant.

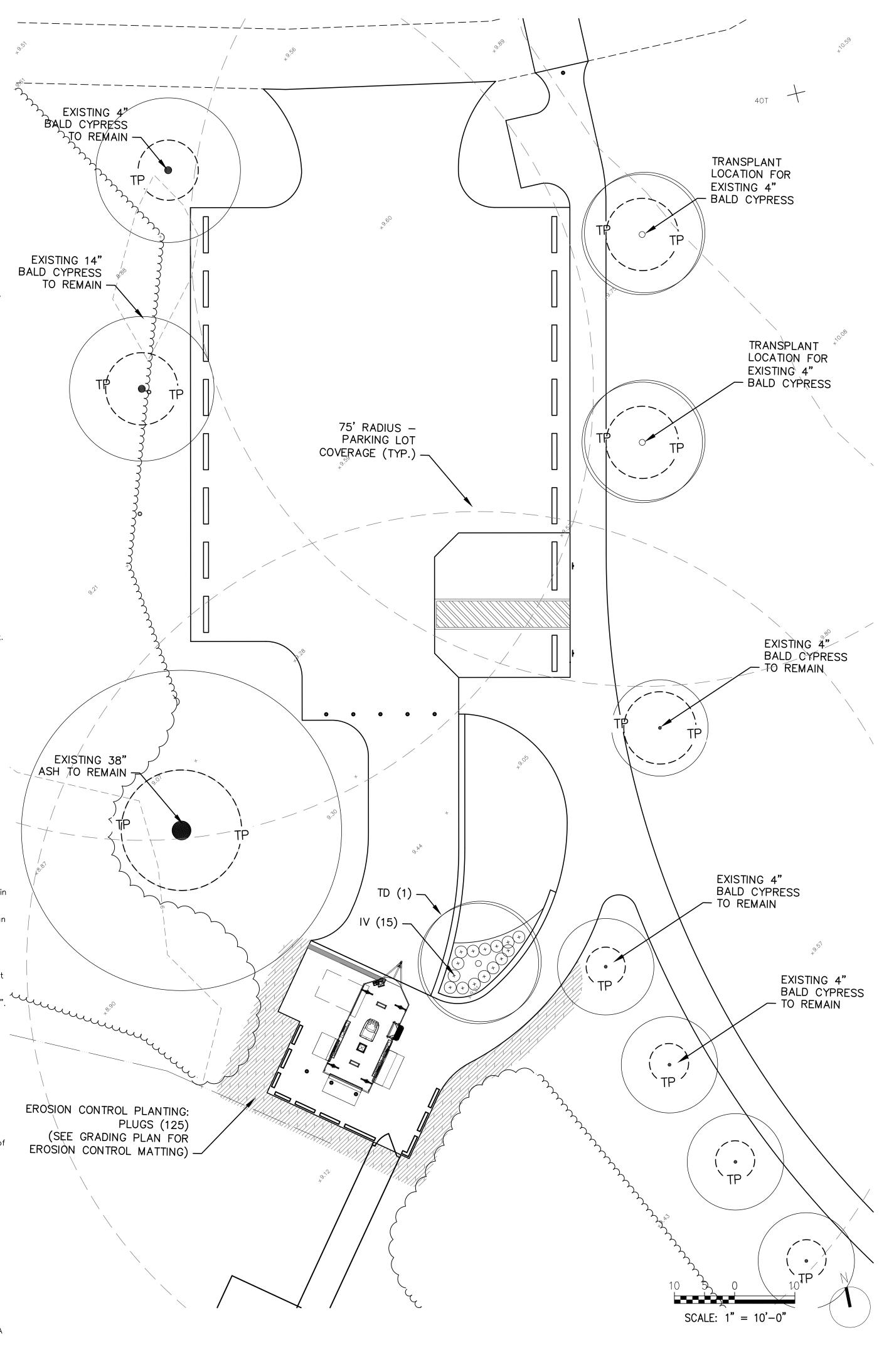
LAYOUT: The contractor shall layout with identifiable stakes , the location of all plants and the the arrangement and outlines of planting beds as indicated on the drawings. Prior to any excavation of plant pits or preparation of plant beds, the Project Consultant shall approve the layout of planting. All planting shall be at the locations indicated on the drawings. The Contractor shall be responsible for planting at the correct grades, alignment and layout of planting beds. Minor adjustments to tree locations may be necessary due to field conditions and final

STAKING & GUYING: Trees shall be staked and guyed as is detailed on the drawings and according to accepted

ADVERSE CONDITIONS: The contractor shall notify the Project Consultant in writing of any soil or drainage conditions which the Contractor considers detrimental to plant growth. The documented conditions shall include a proposal for correcting the situation, including any change in cost, for review and acceptance by the Project Consultant.

QUANTITY: The quantity of plants in the Plant Schedule is for general reference only. The Contractor shall obtain quantities for pricing by compiling numbers from the plants illustrated on the drawings. Should there be a discrepancy between the drawings and the plant schedule, the quantities illustrated on the drawings shall take precedence.

GUARANTEE: The Contractor shall guarantee all plant material for a full year from the date of initial acceptance. It is the Contractors responsibility to monitor the project during the guarantee period and notify the Owner in writing if problems are occurring or situations developed that appear detrimental to the plant material. Any plant material that is 25% dead or more shall be considered dead and must be replaced at no charge to the Owner. A tree is considered dead when the main leader has died back or there is 25% of the crown dead.





- Engineering Architecture
- Surveying Technology ■ Corporate Office 324 Evans Street Greenville, NC 27858

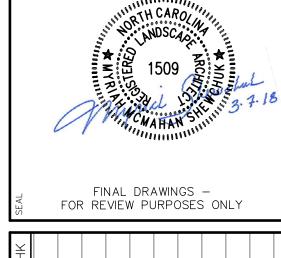
Tel 252.758.3746 Fax 252.830.3954

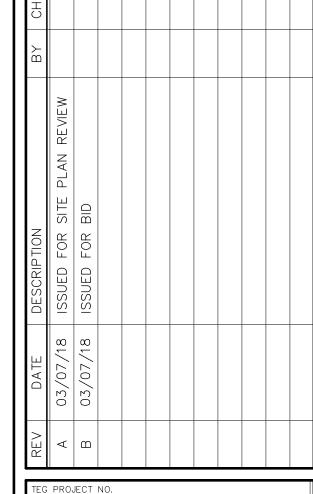
Branch Office 4325 Lake Boone Trail, Suite 311

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- Raleigh, NC 27607 Tel 919.784.9330 Fax 919.784.9331
- NC Engineering License No. C-0206 ■ NC Architectural License No. 50213 ■ NC Landscape Architectural

License No. C-427



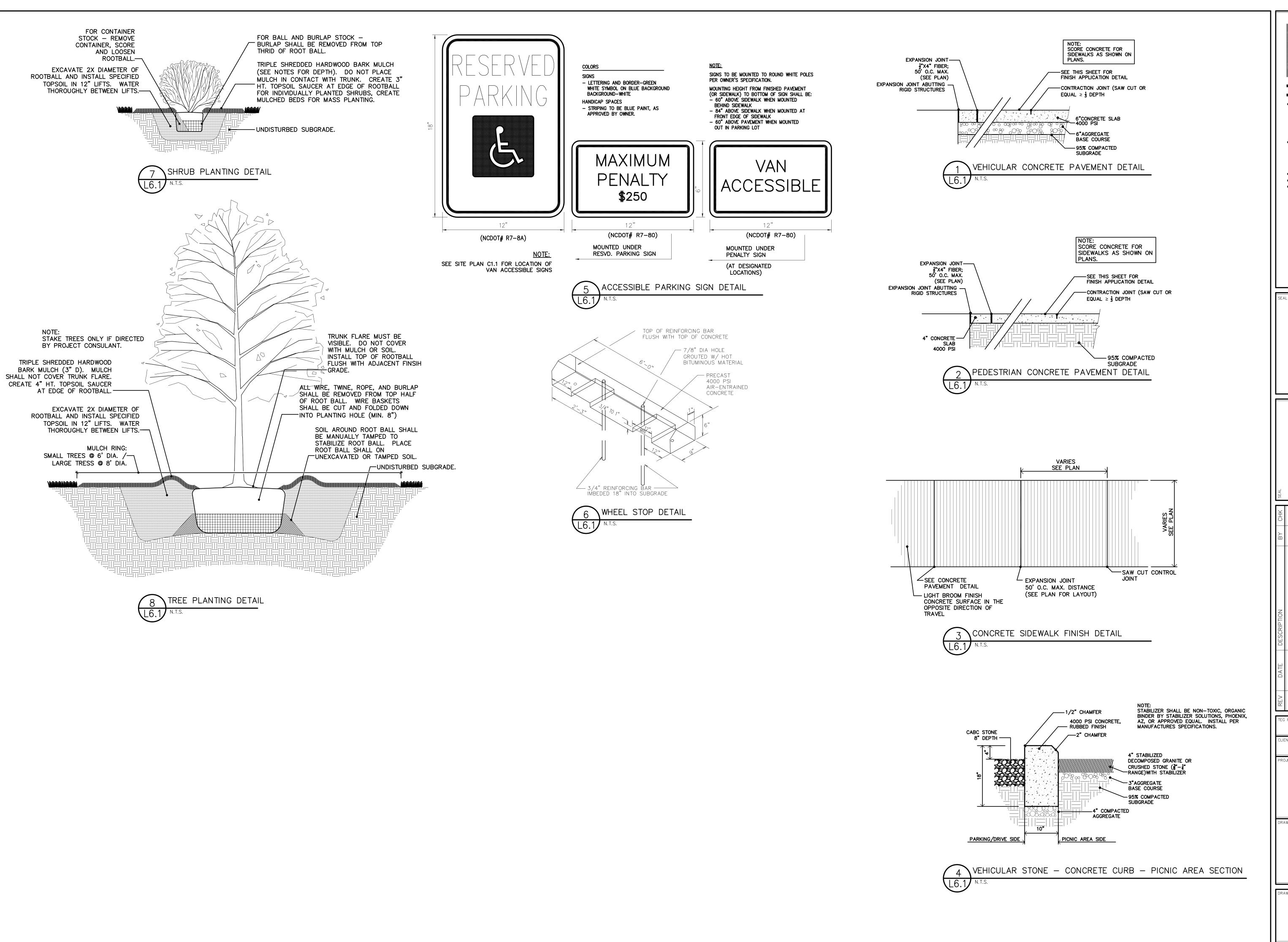


PROJECT #20170106 \_\_\_\_

CITY OF GREENVILLE RIVER PARK NORTH ACCESSIBLE WATER SPORTS FACILITY SITE IMPROVEMENTS

PLANTING PLAN

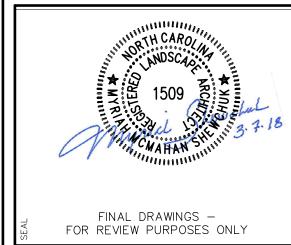
**\_4.**<sup>1</sup>

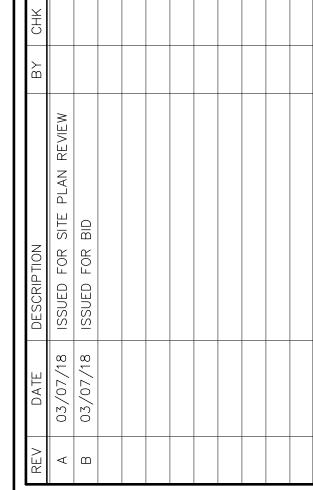


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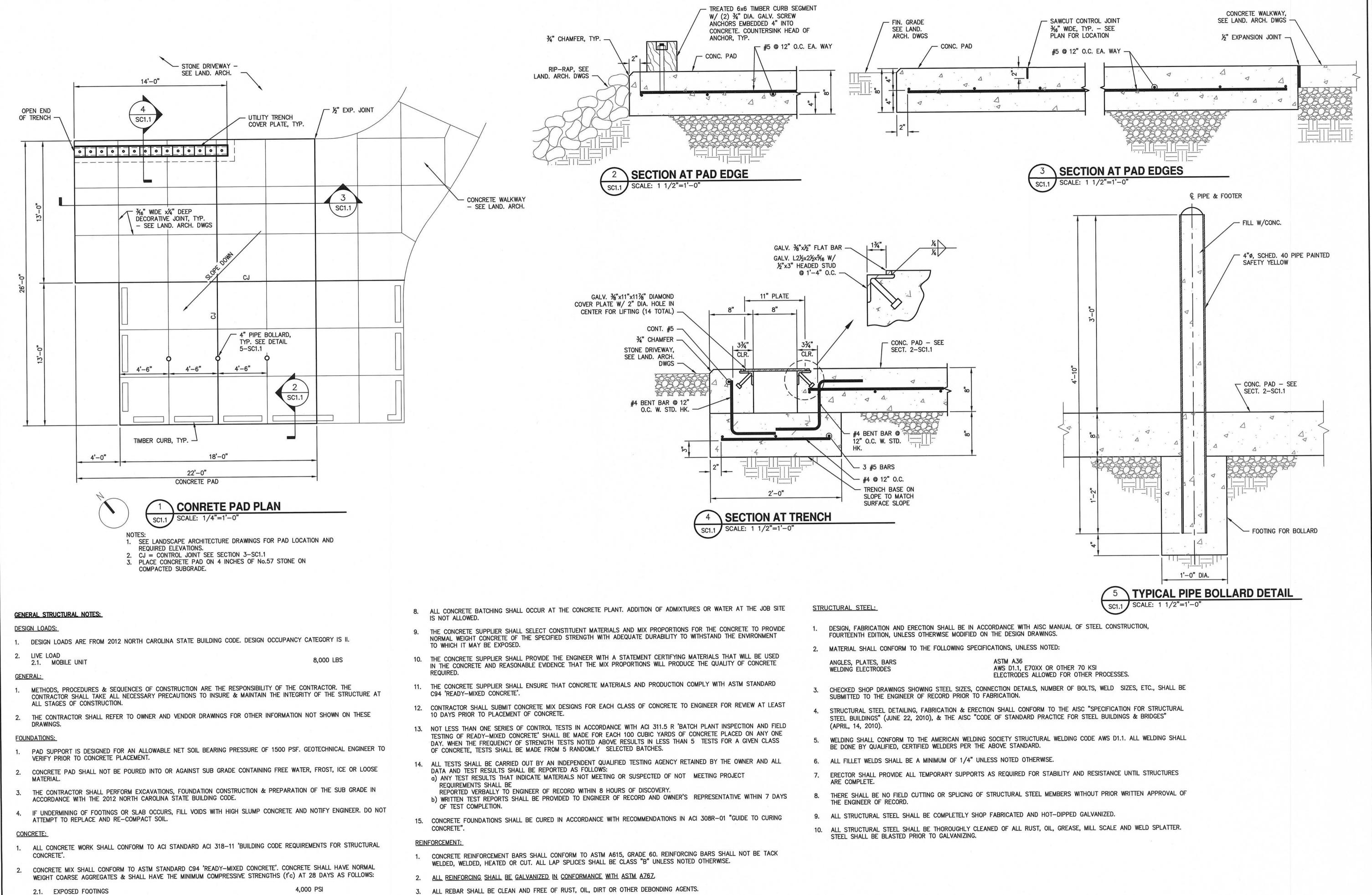
PROJECT NO.
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ENT PROJECT NO.

CITY OF GREENVILLE
RIVER PARK NORTH
ACCESSIBLE WATER
SPORTS FACILITY
SITE IMPROVEMENTS

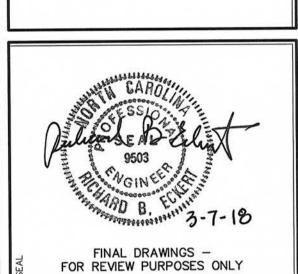
DRAWING TITLE

SITE DETAILS

L6.1



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ВУ	JRC					
DESCRIPTION	ISSUED FOR BID					
DATE	03/07/18					
REV	4					

PROJECT #20170106 CLIENT PROJECT NO.

CITY OF GREENVILLE RIVER PARK NORTH SITE IMPROVEMENTS

**CONCRETE PAD** PLAN, SECTIONS, **DETAILS AND NOTES** 

**SC1.**<sup>1</sup>

- 3. ALL REBAR SHALL BE CLEAN AND FREE OF RUST, OIL, DIRT OR OTHER DEBONDING AGENTS.
- 4. UNLESS NOTED OTHERWISE, CONCRETE COVER TO REINFORCING STEEL SHALL BE: 3 INCHES a) CONCRETE DEPOSITED AGAINST EARTH: b) FORMED SURFACES EXPOSED TO EARTH OR WEATHER 1½ INCHES

REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.

- NORMAL-WEIGHT AGGREGATES SHALL CONFORM TO ASTM STANDARD C33, 'CONCRETE AGGREGATES'. MINIMUM SIZE OF COARSE AGGREGATE SHALL BE (34"). MAXIMUM SIZE OF COARSE AGGREGATE SHALL NOT EXCEED: i) #5 BARS & SMALLER: ii) #6 BARS & LARGER: ONE FIFTH (1/5) OF NARROWEST DIMENSION BETWEEN FORMS
- THREE QUARTERS (34) OF THE MINIMUM CLEAR SPACING BETWEEN REBAR
- ONE THIRD (%) OF THE DEPTH OF SLABS
- 5. MAXIMUM CONCRETE SLUMP SHALL BE FOUR (4) INCHES TYPICAL, UNLESS NOTED OTHERWISE.

3. CEMENT SHALL BE TYPE 1 PORTLAND CEMENT CONFORMING TO ASTM STANDARD C150 'PORTLAND CEMENT'.

- 6. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- 7. MIXING, TRANSPORTING & PLACING OF CONCRETE SHALL CONFORM TO ACI-301-10.

- 2 INCHES 5. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED & SPACED IN FORMS, & SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES & REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 & THE "MANUAL OF STANDARD PRACTICE FOR DETAILING
- CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING & PLACEMENT, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

# ELECTRICAL GENERAL NOTES

- EC SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT AND NATURE OF THE WORK REQUIRED. ANY DIFFICULTIES IN COMPLYING WITH THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO SUBMITTING A BID.
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL WORK WITHIN THE INTENT OF, AND AS INDICATED ON, THE DRAWINGS AND AS HEREIN SPECIFIED.
- CONTRACTOR'S QUALIFICATIONS: IT IS ASSUMED THE CONTRACTOR HAS HAD SUFFICIENT GENERAL KNOWLEDGE AND EXPERIENCE TO ANTICIPATE THE NEEDS OF CONSTRUCTION OF THIS NATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS REQUIRED TO COMPLETE THE CONSTRUCTION IN ACCORDANCE WITH REASONABLE INTERPRETATION OF THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- EC SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TESTS, ETC. AS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
- EC SHALL COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES. NO ALLOWANCES WILL BE MADE ON THE EC'S BEHALF FOR FAILURE TO COORDINATE WITH OTHER TRADES. ANY COORDINATION CONFLICTS WHICH ARISE SHALL BE IMMEDIATELY REPORTED TO THE GC AND OWNER'S REPRESENTATIVE.
- EC SHALL PROVIDE AND INSTALL ALL PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT & DEVICES. LABEL SHALL INDICATE PANEL AND CIRCUIT NUMBER SUPPLYING POWER TO THE DEVICE. EC SHALL PROVIDE REQUIRED SIGNS FOR PANELS, SWITCHGEAR, STARTERS, VFDS, AND ETC. NAMEPLATES TO BE MECHANICALLY SECURED WITH
- EC SHALL PROVIDE AND INSTALL ALL PHENOLIC NAMEPLATES FOR ALL ELECTRICAL SWITCHBOARDS & PANEL BOARDS. AT MINIMUM PROVIDE LABELING WITH WHITE LETTING ON BLUE BACKGROUND TO INDICATE PANEL ID, VOLTAGE, & WHERE PANEL IS FEED FROM. PROVIDE AN ADDITIONAL LABEL WITH WHITE LETTERING ON BLACK BACKGROUND TO INDICATE PHASE, NEUTRAL, & GROUND COLOR CODING. ALL LABELS TO BE MECHANICALLY SECURED WITH NON-FEROUS FASTENERS.
- EC SHALL PROVIDE AND INSTALL ALL WARNING AND CAUTION SIGNS AS REQUIRED BY NEC & NFPA 70E FOR SWITCHBOARDS, PANELBOARDS, ETC., INCLUDING BUT NOT LIMITED TO, "WARNING - ARC FLASH HAZARD -APPROPRIATE PPE REQUIRED".
- ALL AFF DIMENSIONS ARE REFERENCED TO CENTER OF EQUIPMENT/DEVICE UNO.
- 10. EACH RECEPTACLE CIRCUIT AND LIGHTING CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. ENSURE COMPLIANCE WITH NEC REGARDING ALLOWABLE AMPACITIES AND DERATING (ADJUSTMENT) FACTORS ON INSTALLATION OF CONDUIT AND CONDUCTORS.
- UPON MODIFICATION OR CONNECTION TO EXISTING SYSTEMS, POWER AND/OR SECONDARY SYSTEMS SHALL NOT BE INTERRUPTED WITHOUT PRIOR CONSENT OF OWNER AND A DEFINITE UNDERSTANDING OF THE DURATION OF THE OUTAGE.
- 12. ALL CONDUCTORS SHALL BE INSULATED COPPER UNLESS NOTED OTHERWISE. CONDUCTORS #10 AND SMALLER SHALL BE SOLID; CONDUCTOR #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS SHALL BE THWN-2 OR XHHW-2, 90° C RATED.
- 13. ALL 240/120V POWER WIRING INSULATION SHALL BE COLOR CODED (NO EXCEPTIONS). PHASE A-BLACK; PHASE B-RED; NEUTRAL-WHITE; AND GROUNDING CONDUCTORS-GREEN. COLOR CODED TAPE NOT ALLOWED.
- . WIRING DEVICES SHALL BE 20 AMP MINIMUM AND SHALL BE OF THE GROUNDING TYPE. WITH HEX-HEAD GREEN GROUNDING SCREW, TO BE CONNECTED TO THE GREEN GROUND CONDUCTOR. SELF-GROUNDING TYPE IS NOT ACCEPTABLE. RECEPTACLES SHALL BE INDUSTRIAL SPECIFICATION GRADE OR HEAVY DUTY GRADE MEETING NEMA WD 1. NEMA WD 6, DSCC W-C-596G, AND UL-498 AND SHALL BE APPROVED THIRD-PARTY LISTED.
- 15. OUTSIDE ABOVE GROUND CONDUITS SHALL BE RMC. CONNECTIONS TO VIBRATING EQUIPMENT SHALL BE LFMC.
- 16. UNDERGROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL (RMC) OR PVC SCHEDULE 80 ONLY. ALL BENDS SHALL BE RIGID GALVANIZED STEEL. ALL CONCRETE SLAB PENETRATIONS SHALL BE RIGID GALVANIZED STEEL AND CONDUIT SHALL EXTEND AT A MINIMUM OF 1'-0" PAST TOP OF CONCERT SLAB. UNDERGROUND STEEL CONDUIT SHALL BE WRAPPED WITH BITUMEN TAPE TO 0'-6" ABOVE FINISHED GRADE.
- 17. UNDERGROUND PVC CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 36" BELOW FINISHED GRADE WITH DETECTABLE BURIAL TAPE. CHANGE FROM PVC TO RIGID STEEL CONDUIT PRIOR TO TURNING UP AT ANY LOCATION. ALL EXCAVATION (DIGGING, TRENCHING, BACK FILLING, ETC.) SHALL BE PROVIDED BY CONTRACTOR. BOND RIGID STEEL
- 18. ALL UNDERGROUND CONDUITS AND UTILITIES SHALL HAVE METALIZED WARNING TAPE INSTALLED ABOVE THE CONDUIT THAT IDENTIFIES THE SPECIFIC SYSTEM BURIED BELOW. TAPE SHALL CONSIST OF A MINIMUM 3.5 MIL SOLID FOIL CORE ENCASED IN A PROTECTIVE PLASTIC JACKET (TOTAL THICKNESS 5.5 MILS) AND BE 6" WIDE WITH BLACK LETTERING IMPRINTED ON A COLOR CODED BACKGROUND THAT CONFORMS TO APWA COLOR CODE SPECIFICATIONS. WARNING TAPE SHALL BE INSTALLED 18" ABOVE THE PIPE AND IN NO CASE LESS THAN 6" BELOW GRADE.
- 19. ALL NON-METALLIC CONDUIT INSTALLED UNDERGROUND SHALL HAVE A TRACER WIRE INSTALLED ON THE TOP SIDE OF EACH CONDUIT. THE TRACER WIRE SHALL BE #12 COPPER-CLAD STEEL REINFORCED SINGLE CONDUCTOR WIRE INSULATED WITH ORANGE COLORED HDPE INSULATION (30 MILS) EQUAL TO COPPERHEAD INDUSTRIES BRAND. THE TRACER WIRE SHALL BE CONTINUOUS ALONG THE ENTIRE LENGTH OF THE CONDUIT AND SHALL TERMINATE WITH WATERPROOF CONNECTORS. PROVIDE 24" OF EXCESS TRACER WIRE IN EACH PULL BOX OR CONDUIT END.
- 20. ELECTRICAL CONTRACTOR SHALL LOCATE ELECTRICAL CONDUITS OUTSIDE THE DRIP LINE OF EXISTING TREES TO THE GREATEST EXTEND POSSIBLE.
- 21. EXISTING CONDITIONS THAT ARE NOT INDICATED TO BE DEMOLISHED, BUT ARE DAMAGED AS A RESULT OF THE WORK
- SHALL BE REPAIRED OR REPLACED BY THE EC TO MATCH EXISTING ADJACENT CONDITIONS.
- MATERIALS AND DEBRIS CAUSED BY THE WORK. 23. EC SHALL VERIFY EXISTING CONDITIONS PRIOR TO EXECUTION OF THE WORK. SOME OR ALL INFORMATION ABOUT EXISTING CONDITIONS SHOWN ON THE DRAWINGS MAY BE BASED SOLELY ON EXISTING RECORD DRAWINGS AND MAY OR

22. THE EC SHALL KEEP THE CONSTRUCTION AREA AND SURROUNDING AREAS FREE FROM THE ACCUMULATION OF WASTE

- MAY NOT HAVE BEEN VERIFIED BY THE ARCHITECT OR ENGINEER. 24. UNLESS NOTED OTHERWISE, DEMOLISH AND REMOVE FROM THE PROJECT SITE ALL EQUIPMENT, DUCTWORK, PIPING,
- CONDUIT, ETC. AS INDICATED ON THE DEMOLITION DRAWINGS OR OTHER DRAWINGS. ALL SYSTEMS SHALL BE DEMOLISHED BACK TO THE SOURCE AND CAPPED APPROPRIATELY.
- 25. EXISTING EQUIPMENT OR DEVICES THAT ARE INDICATED TO BE REMOVED AND TURNED OVER TO OWNER SHALL BE REMOVED WITH DUE CARE AND DILIGENCE, CLEANED AND TURNED OVER TO THE OWNER.
- 26. EXISTING EQUIPMENT OR DEVICES THAT ARE INDICATED TO BE REMOVED AND REINSTALLED/RELOCATED SHALL BE REMOVED WITH DUE CARE AND DILIGENCE, INSPECTED FOR PROPER OPERATION, CLEANED AND PREPARED FOR REINSTALLATION.
- 27. ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE 3RD PARTY LISTED APPROVAL FOR THEIR INSTALLED
- 28. FOR ALL ELECTRICAL CIRCUITS, EC SHALL IDENTIFY THE CIRCUIT NUMBER IN THE DESIGNATED PANEL. SHALL MARK THE CIRCUIT NUMBER ON THE DRAWINGS, AND SHALL TURN OVER THE MARKED UP DRAWINGS TO OWNER. EC SHALL UPDATE THE PANEL SCHEDULES UPON COMPLETION OF CONSTRUCTION. IN THE EVENT THE PANEL(S) DO NOT HAVE ADEQUATE SPARE CIRCUITS OR CAPACITY, EC SHALL NOTIFY OWNER FOR RESOLUTION OF ISSUE.
- 29. NEW AND EXISTING PANEL SCHEDULES SHALL BE UPDATED (TYPED-ONLY) UPON COMPLETION OF THE WORK TO ACCURATELY INDICATE INSTALLED CONDITIONS.
- 30. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL COORDINATE LOCATING EXISTING UNDERGROUND UTILITIES WITH OWNER, OWNER'S ON-SITE ENGINEER, AND NO ONE CALL (811) PRIOR TO ANY WORK.
- 31. EC SHALL BE LICENSED IN NC. AND SHALL INSTALL ALL ELECTRICAL EQUIPMENT, WIRING, DEVICES, ETC. AS PER NEC, AND OTHER APPLICABLE STATE AND LOCAL CODES.
- 32. AT A MINIMUM, THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL:
- A. PANELBOARD, CIRCUIT BREAKERS, ENCLOSURE, ETC. B. OUTLET DEVICES: BOXES, RECEPTACLES, ETC.
- C. CONDUITS, FITTINGS, ETC.
- E. PULL/JUCNTION BOX
- GROUND BAR, GROUND ROD, ENCLOSURE, ETC. G. TRACER WIRE, ETC.

APPLICATION.

- H. WARNING TAPE, ETC.
- EQUIPMENT LABELS, ETC. J. MOUNTING RACK HARDWARE, ETC.

# LEGEND



GROUND FAULT INTERRUPTED DUPLEX RECEPTACLE, 20 AMP, 120VAC, 24" AFF UNO. WHERE SHOWN, "WP IU" INDICATES WEATHER PROOF IN USE COVER.



SPECIAL PURPOSE OUTLET, SINGLE RECEPTACLE, 50 AMP, 240 VAC, 24" AFF UNO. MATCH CONNECTING EQUIPMENT.

JUNCTION BOX/DEVICE BOX WITH COVER. LOCATE AS REQUIRED FOR EQUIPMENT SERVED. ELECTRICAL PANEL, SURFACE MOUNTED, TOP OF PANEL 72"

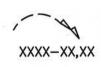
REFERENCE TO ENLARGED PLAN, ELEVATION, SECTION, OR DETAIL TOP SECTION INDICATES ENLARGED PLAN, ELEVATION, SECTION OR DETAIL NUMBER. BOTTOM SECTION INDICATES DRAWING ON WHICH ENLARGED PLAN, ELEVATION, SECTION OR DETAIL APPEARS.

NOTE NUMBER, WHERE "#" INDICATES NOTE NUMBER.

AFF UNO. "XXXX" INDICATES PANEL TAG.

XXXX-XX

HOMERUN TO PANELBOARD. XXXX-XX INDICATES PANELBOARD & CIRCUIT NUMBER (1 #12 LINE, 1 #12 NEUTRAL, 1 #12 GND, 3/4" C, UNO.)



HOMERUN TO PANELBOARD. XXXX-XX,XX INDICATES PANELBOARD & CIRCUIT NUMBER (2 #12, 1 #12 GND, UNO, 3/4 C, UNO.)

UNSWITCHED CIRCUIT (2 #12, 1 #12 GND, 3/4" C, UNO.)

SWITCHED CIRCUIT (2 #12, 1 #12 GND, 3/4" C, UNO.)

GROUND, EXTEND AND CONNECT TO APPROVED GROUND.

_	
	AN
Α	AN

ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

BKR BREAKER

EC

EXISTING TO REMAIN

**EXISTING** 

FLEXIBLE METAL CONDUIT

**GFCI** 

HZ

**INCHES** 

NOT TO SCALE

RIGID METAL CONDUIT

TYP

VOLT AMPS

ABBREVIATIONS	

BOC BOTTOM OF CONDUIT

CONDUIT

ELECTRICAL CONTRACTOR

**EMT** ELECTRICAL METALLIC TUBING

ETR

FT FEET

GENERAL CONTRACTOR

GROUND

GROUND FAULT CIRCUIT INTERRUPTER

LIQUID FLEXIBLE METAL CONDUIT

HERTZ

NEUTRAL

NTS

PHASE

RELOCATED

RMC

TYPICAL

UNLESS NOTED OTHERWISE UNO

VAC VOLTS AC

> WEATHER PROOF TRANSFORMER

DESCRIPTION  MANUFACTURER AND MODEL NUMBER  PANELBOARD, 240/120 VAC, 1 PHASE, 3 WIRE. FACTORY ASSEMBLED WITH THE FOLLOWING ACCESSORIES: COPPER PHASE, NEUTRAL, AND GROUND BUS. FULLY RATED. NEWA 3R ENCLOSURE, BOLT ON BREAKERS, — SEE PANEL SCHEDULE FOR MAIN LUG OR MAIN CIRCUIT BREAKER, NEUTRAL, AND GROUND BUS. FULLY RATED. NUMBER, SZE, TYPE OF CIRCUIT BREAKERS, AND ADDITIONAL REQUIREMENTS.  1/4" X 4" X 12" COPPER GROUND BAR WITH PUNCHED LUG HOLES, 2 STANDOFFS AND 2 INSULATORS  18"x18"x8" NEMA 3R METAL ENCLOSURE (FOR MOUNTING GROUND BAR)  50 AMP, 125/250 VOLT, NEMA 14—50R, 3—POLE, 4 WIRE GROUNDING RECEPTACLE, WITH WEATHERPROOF WHILE IN—USE NON—PLASTIC "EXTRA—DUTY" ENCLOSURE, SURFACE MOUNTED. (PLASTIC OUTLET BOX AND PLASTIC COVER NOT ALLOWED) (CONTRACTOR TO CONFIRM ACTULAL RECEPTACLE TYPE WITH OWNER EQUIPMENT PRIOR TO PURCHASOL TO PURCHASOL MEAN AND TAMPER RESISTANT AND TAMPER RESISTANT AND TAMPER RESISTANT LISTED, BLACK  WEATHERPROOF SINGLE GANG BOX, GRAY, HEAVY DIE—CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  SINGLE GANG CAST WEATHERPROOF WHILE—IN—USE, DIE—CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  SINGLE GANG CAST WEATHERPROOF WHILE—IN—USE, DIE—CAST ALUMINUM, OVER, GRAY, UL LISTED FOR "EXTRA—DUTY" APPLICATIONS, PADLOCKABLE. (PLASTIC UNIT NOT ALLOWED)  (PLASTIC UNIT NOT ALLOWED)	MISCELLANEOUS E	QUIPMENT SCHEDULE
ASSEMBLED WITH THE FOLLOWING ACCESSORIES. COPPER PHASE, REUTRAL, AND GROUND BUS. FULLY RATED, NEWA 3R ENCLOSURE, BOLT ON BREAKERS, — SEE PANEL. SCHEDULE FOR MAIN LIG OR MAIN CIRCUIT BREAKER, NUMBER, SIZE, TYPE OF CIRCUIT BREAKERS, AND ADDITIONAL REQUIREMENTS.  1/4" X 4" X 12" COPPER GROUND BAR WITH PUNCHED LUG HOLES, 2 STANDOFFS AND 2 INSULATORS  18"x18"x8" NEMA 3R METAL ENCLOSURE (FOR MOUNTING GROUND BAR)  50 AMP, 125/250 VOLT, NEMA 14—50R, 3—POLE, 4 WIRE GROUNDING RECEPTACLE, WITH WEATHERPROOF WHILE IN—USE NON—PLASTIC "EXTRA—DUTY" ENCLOSURE, SUFFACE MOUNTED. (PLASTIC OUTLET BOX AND PLASTIC COVER NOT ALLOWED)  (CONTRACTOR TO CONFIRM ACTUAL RECEPTACLE TYPE WITH OWNER EQUIPMENT PRIOR TO PURCHASE)  20 AMP, 125 VOLT, NEMA 5—20R, FLUSH MOUNT GFG! RECEPTACLE W/ LED INDICATOR LIGHT, GROUNDING, WEATHER RESISTANT AND TAMPER RESISTANT LISTED, BLACK  WEATHER RESISTANT AND TAMPER RESISTANT LISTED, BLACK  WEATHER PROOF SINGLE GANG BOX, GRAY, HEAVY DIE—CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  SINGLE GANG CAST WEATHERPROOF WHILE—IN—USE, DIE—CAST ALUMINUM COVER, GRAY, UL LISTED FOR "EXTRA—DUTY" APPLICATIONS, PADLOCKABLE.	DESCRIPTION	MANUFACTURER AND MODEL NUMBER
LÚG HOLES, 2 STANDOFFS AND 2 INSULATORS  18"x18"x8" NEMA 3R METAL ENCLOSURE (FOR MOUNTING GROUND BAR)  50 AMP, 125/250 VOLT, NEMA 14-50R, 3-POLE, 4 WIRE GROUNDING RECEPTACLE, WITH WEATHERPROOF WHILE IN-USE NON-PLASTIC "EXTRA-DUTY" ENCLOSURE, SURFACE MOUNTED. (PLASTIC OUTLET BOX AND PLASTIC COVER NOT ALLOWED) (CONTRACTOR TO CONFIRM ACTUAL RECEPTACLE TYPE WITH OWNER EQUIPMENT PRIOR TO PURCHASE)  20 AMP, 125 VOLT, NEMA 5-20R, FLUSH MOUNT GFCI RECEPTACLE W/ LED INDICATOR LIGHT, GROUNDING, WEATHER RESISTANT AND TAMPER RESISTANT LISTED, BLACK  WEATHERPROOF SINGLE GANG BOX, GRAY, HEAVY DIE-CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  SINGLE GANG CAST WEATHERPROOF WHILE-IN-USE, DIE-CAST ALUMINUM COVER, GRAY, UL LISTED FOR "EXTRA-DUTY" APPLICATIONS, PADLOCKABLE.  INTERMATIC - WP1010MXD OR EQUAL	ASSEMBLED WITH THE FOLLOWING ACCESSORIES: COPPER PHASE, NEUTRAL, AND GROUND BUS. FULLY RATED, NEMA 3R ENCLOSURE, BOLT ON BREAKERS. — SEE PANEL SCHEDULE FOR MAIN LUG OR MAIN CIRCUIT BREAKER, NUMBER, SIZE, TYPE OF CIRCUIT BREAKERS, AND	
(FOR MOUNTING GROUND BAR)  50 AMP, 125/250 VOLT, NEMA 14–50R, 3–POLE, 4 WIRE GROUNDING RECEPTACLE, WITH WEATHERPROOF WHILE IN—USE NON—PLASTIC "EXTRA—DUTY" ENCLOSURE, SURFACE MOUNTED. (PLASTIC OUTLET BOX AND PLASTIC COVER NOT ALLOWED)  (CONTRACTOR TO CONFIRM ACTUAL RECEPTACLE TYPE WITH OWNER EQUIPMENT PRIOR TO PURCHASE)  20 AMP, 125 VOLT, NEMA 5–20R, FLUSH MOUNT GFCI RECEPTACLE W/ LED INDICATOR LIGHT, GROUNDING, WEATHER RESISTANT AND TAMPER RESISTANT LISTED, BLACK  WEATHERPROOF SINGLE GANG BOX, GRAY, HEAVY DIE—CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  SINGLE GANG CAST WEATHERPROOF WHILE—IN—USE, DIE—CAST ALUMINUM COVER, GRAY, UL LISTED FOR "EXTRA—DUTY" APPLICATIONS, PADLOCKABLE.  INTERMATIC — WP1010MXD OR EQUAL		
GROUNDING ŘECEPTACLE, WITH WEATHERPROOF WHILE IN-USE NON-PLASTIC "EXTRA-DUTY" ENCLOSURE, SURFACE MOUNTED. (PLASTIC OUTLET BOX AND PLASTIC COVER NOT ALLOWED)  (CONTRACTOR TO CONFIRM ACTUAL RECEPTACLE TYPE WITH OWNER EQUIPMENT PRIOR TO PURCHASE)  20 AMP, 125 VOLT, NEMA 5-20R, FLUSH MOUNT GFCI RECEPTACLE W/ LED INDICATOR LIGHT, GROUNDING, WEATHER RESISTANT AND TAMPER RESISTANT LISTED, BLACK  WEATHERPROOF SINGLE GANG BOX, GRAY, HEAVY DIE-CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  LEGRAND - WPB26 OR EQUAL  LEGRAND - WPB26 OR EQUAL  SINGLE GANG CAST WEATHERPROOF WHILE—IN-USE, DIE-CAST ALUMINUM COVER, GRAY, UL LISTED FOR "EXTRA-DUTY" APPLICATIONS, PADLOCKABLE.		
RECEPTACLE W/ LED INDICATOR LIGHT, GROUNDING, WEATHER RESISTANT AND TAMPER RESISTANT LISTED, BLACK  WEATHERPROOF SINGLE GANG BOX, GRAY, HEAVY DIE—CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  SINGLE GANG CAST WEATHERPROOF WHILE—IN—USE, DIE—CAST ALUMINUM COVER, GRAY, UL LISTED FOR "EXTRA—DUTY" APPLICATIONS, PADLOCKABLE.  LEGRAND — WPB26 OR EQUAL  INTERMATIC — WP1010MXD OR EQUAL	GROUNDING RECEPTACLE, WITH WEATHERPROOF WHILE IN-USE NON-PLASTIC "EXTRA-DUTY" ENCLOSURE, SURFACE MOUNTED. (PLASTIC OUTLET BOX AND PLASTIC COVER NOT ALLOWED)  (CONTRACTOR TO CONFIRM ACTUAL RECEPTACLE TYPE)	
DIE—CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP LOCATIONS WITH APPROPRIATE COVER.  SINGLE GANG CAST WEATHERPROOF WHILE—IN—USE, DIE—CAST ALUMINUM COVER, GRAY, UL LISTED FOR "EXTRA—DUTY" APPLICATIONS, PADLOCKABLE.  "EXTRA—DUTY" APPLICATIONS, PADLOCKABLE.	RECEPTACLE W/ LED INDICATOR LIGHT, GROUNDING, WEATHER RESISTANT AND TAMPER RESISTANT LISTED,	
DIE—CAST ALUMINUM COVER, GRAY, UL LISTED FOR — WP1010MXD OR EQUAL "EXTRA—DUTY" APPLICATIONS, PADLOCKABLE.	DIE-CAST ALUMINUM, UL LISTED FOR WET AND/OR DAMP	
(PLASTIC UNIT NOT ALLOWED)	DIE-CAST ALUMINUM COVER, GRAY, UL LISTED FOR "EXTRA-DUTY" APPLICATIONS, PADLOCKABLE.	
	(PLASTIC UNIT NOT ALLOWED)	

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Corporate Office

324 Evans Street Greenville, NC 27858

Branch Office

www.eastgroup.com

Raleigh, NC 27607

#20170106 CLIENT PROJECT NO.

PROJECT TITLE

8,400 VA

0 VA 0 VA

8,760 VA

SUB TOTAL - 8,760 VA

SUB TOTAL -

360 VA

CITY OF GREENVILLE RIVER PARK NORTH SITE IMPROVEMENTS

\_\_\_\_

DRAWING TITLE

**ELECTRICAL** LEAD SHEET

**E0.**1

ELECTRICAL DRAWING INDEX

ELECTRICAL LOAD SUMMARY

PANEL R3

EO.1 ELECTRICAL LEAD SHEET E1.1 ELECTRICAL SITE PLAN

E1.3 ELECTRICAL EQUIPMENT RACK & DETAILS

DEMAND LOAD - EXISTING TO BE DEMOLISHED

NET BUILDING LOAD = (EXISTING) + (NEW) - (DEMO)

E1.2 ELECTRICAL PANEL SCHEDULES & ONE LINE DIAGRAM

**ELECTRICAL:** 

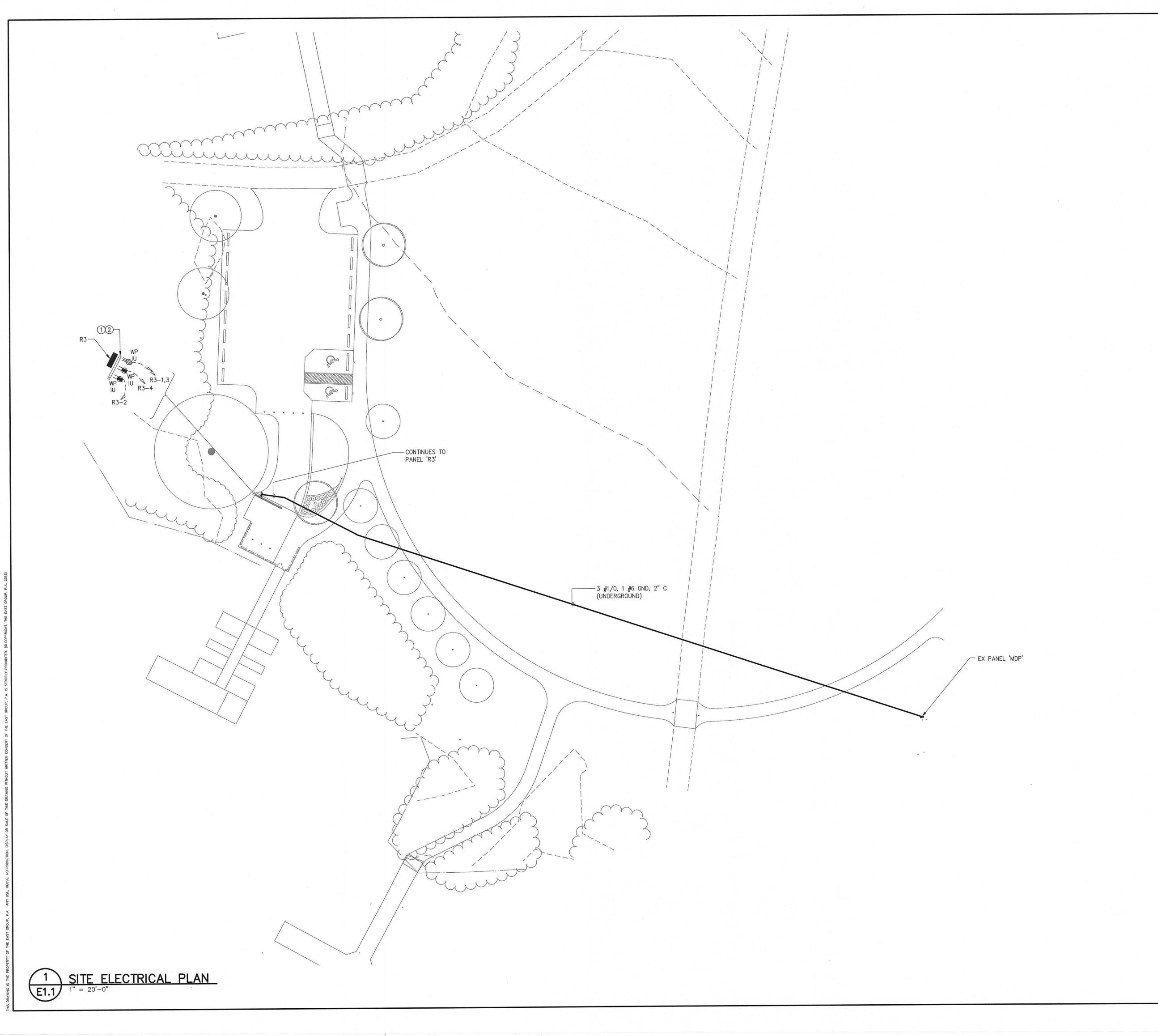
-NONE

- VENDING UNIT

- RECEPTACLES

MISCELLANEOUS

DEMAND LOAD - NEW POWER



<u>NOTES</u>

EC SHALL PROVIDE AND INSTALL EQUIPMENT MOUNTING RACK. PROVIDE AND INSTALL ALL MOUNTING HARDWARE. SEE E1.3. INSTALL PANEL R3 TO THE END OF EQUIPMENT RACK AS INDICTED TO ALLOW SPACE FOR MOUNTING FUTURE EQUIPMENT.

2) ALL CONDUIT PENETRATIONS INTO PANEL R3 SHALL BE IN FROM THE BOTTOM. SIDE, TOP, OR BACK PENETRATIONS ARE NOT ALLOWED.

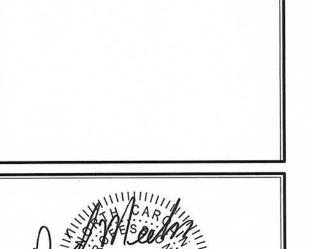


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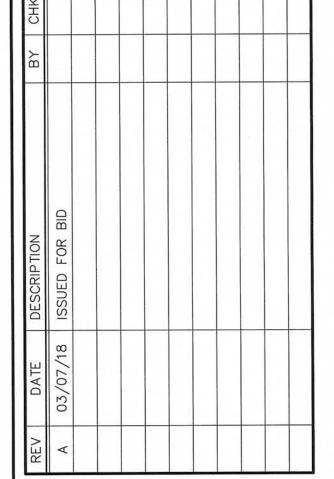
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CITY OF GREENVILLE RIVER PARK NORTH SITE IMPROVEMENTS

SCALE: 1" = 20' - 0"

**ELECTRICAL POWR PLAN** 

E1.1

PANEL	BOA	RD MDP				VOLTA	AGE: ⊠	240/120	)V., 1	PHASE	3 WIRE								
MOUNTING:		FLUSH SURFACE			UGS MAIN I			BUS: _2 TRIP: _2			FRAME:	A		TOP BOTTOM	1		JTRAL: NONE		50% 100%
COVER:		DOOR WITH					HINGABLE UT HINGA	COVER BLE COVE	R	ALL E	RANCH BE	REAKERS AKER IN	20A ITERRI	1 POLE JPTING (	UNLES	SS NO	OTED OTHE 10,000	RWISE A RMS	S. SYM. MIN
D	ESC	RIPTION		LO	AD	CKT NO.		70	CKT NO.		DESC	RIPTIO	N		LOA	AD.	PHAS L1	E LOAD	(AMPS) L2
RECEPTACLE 1					.5	1 2				PANEL - BOAT HOUSE							,//	/////	
RECEPATCL	Ε			1.	.5	3	100	60	4	171111	50711	10002			74		////		
PANEL - V	ENDIN	G TRAILER	•		6.5 6.5	5 7	1	##	8	PANEL	- PICNIC	SHELTE	R		1.5 1.5	74	38		38
PANELBO	DARD	LOCATION:	- 21				_ M	ANUFACTU ODEL/CAT EED:								_	TAL L1		
KEY:		`— MULTIPO `— BREAKEF	LE R		(G   P	GFI PAD	BREAKER	TACH _	)  \_{ } =	LOCKO	FF ATTACI	H	HD :	SWITCH (	DUTY ED			ARC FA	ULT

(EXISTING PANELBOARD SHOWN FOR REFERENCE ONLY, CIRCUITS HAVE NOT BEEN FIELD VERIFIED)

+ NEW LOAD ADDED TO EXISTING CIRCUIT BREAKER \* EXISTING SPARE CIRCUIT BREAKER TO BE USED

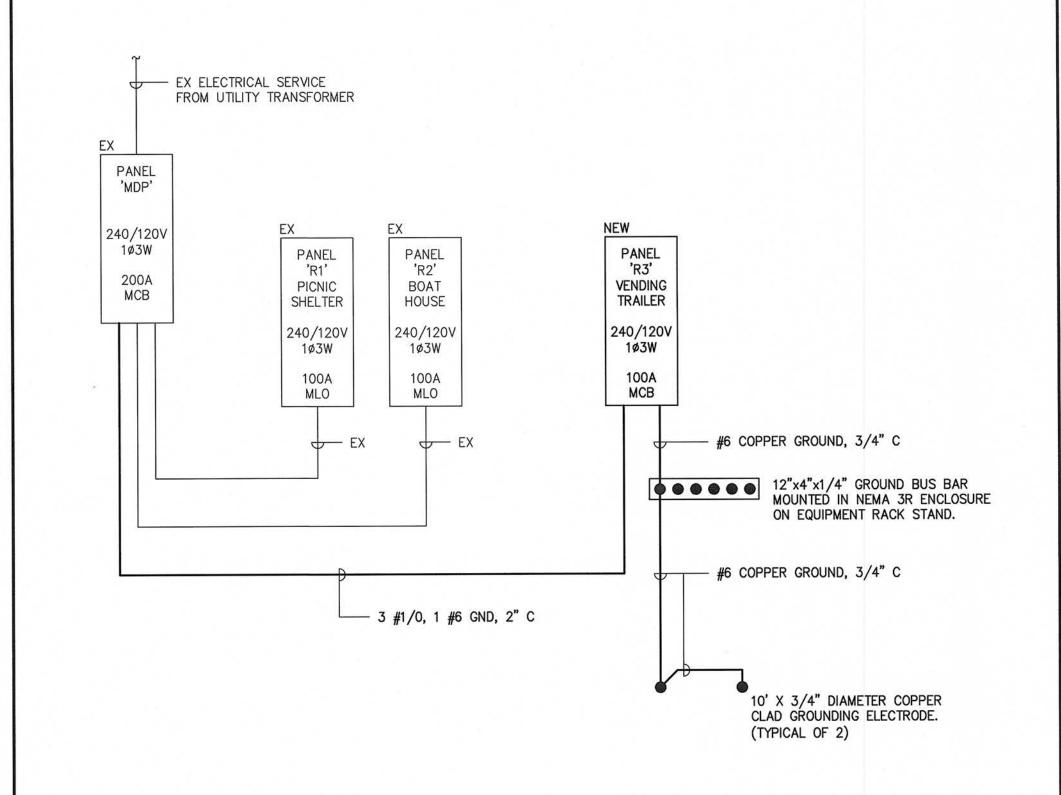
~ NEW CIRCUIT BREAKER IN EXISTING SPACE

^ NEW CIRCUIT BREAKER, EXISTING CIRCUIT BREAKER TO BE REMOVED

1. MOUNTED OUTSIDE, PROVIDED WITH NEMA 3R ENCLOSURE

	FLUSH SURFACE	MAIN:	☐ LUGS ☑ MAIN	ONLY BREA	KER	BU TR	IS: <u>1</u> IP: <u>1</u>	25 A 00 A	☐ TOP FRAME:A ⊠ BOT			□ 50% ☑ 100%
	DOOR WITH				HINGABL UT HING			R	ALL BRANCH BREAKERS 20A 1 PC U/L LISTED BREAKER INTERRUPTIN	LE UNLESS G CAPACITY:	NOTED OTHERWIS 22,000 A F	E RMS. SYM. M
DESCI	RIPTION		LOAD	CKT NO.				CKT NO.	DESCRIPTION	LOAD	PHASE LO	AD (AMPS) L2
ENDING UNIT	1000000		35	1	<u>-</u> *-		$\frown$	2	RECEPTACLE #1	1.5	36.5	11/1//
2 #6, 1 #6 NEU	, 1 #6 GND,	3/4"C)	35	3	<u> </u>	-+-	$\overline{}$	4	RECEPTACLE #2	1.5	//////	36.5
SPACE	51 No 5 #552 32225.00*		0.0	5		-	$\bigcirc$	6	SPACE	0.0	0.0	
SPACE			0.0	7	<del> </del>	-+-	$\frown$	8	SPACE	0.0		0.0
SPACE			0.0	9	<u>-</u>		$\frown$	10	SPACE	0.0	0.0	
SPACE			0.0	11	<del> </del>	-	$\frown$	12	SPACE	0.0		0.0
SPACE			0.0	13	<del> </del>	+	<u> </u>	14	SPACE	0.0	0.0	
SPACE			0.0	15	<del> -</del> ^-	-	<u> </u>	16	SPACE	0.0		0.0
SPACE			0.0	17	<del>                                     </del>	-	$\frown$	18	SPACE	0.0	0.0	
SPACE			0.0	19	<del>                                     </del>	+	$\frown$	20	SPACE	0.0	1/////	0.0
SPACE			0.0	21	<del> </del>	<del> </del>	$\frown$	22	SPACE	0.0	0.0	
SPACE			0.0	23		+	$\frown$	24	SPACE	0.0	1/////	0.0
PANELBOARD	LOCATION:	VENDING	TRAILER						:		OTAL L1	36.5 36.5

NOTES:
1. MOUNTED OUTSIDE, PROVIDE WITH NEMA 3R ENCLOSURE



\ ELECTRICAL ONE LINE DIAGRAM

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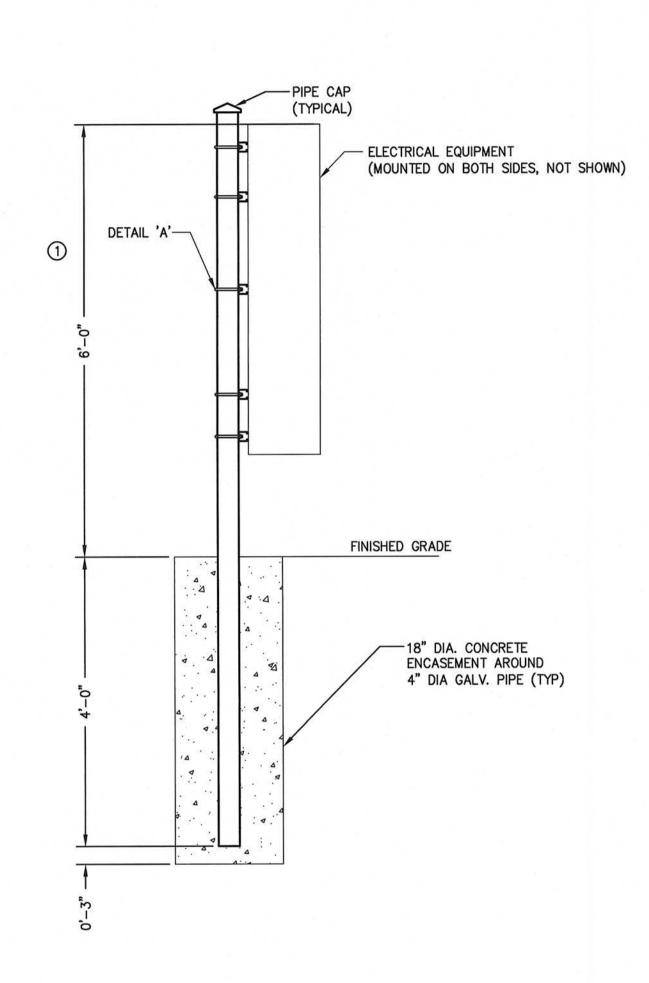
3-6-18 FINAL DRAWINGS -FOR REVIEW PURPOSES ONLY

PROJECT #20170106

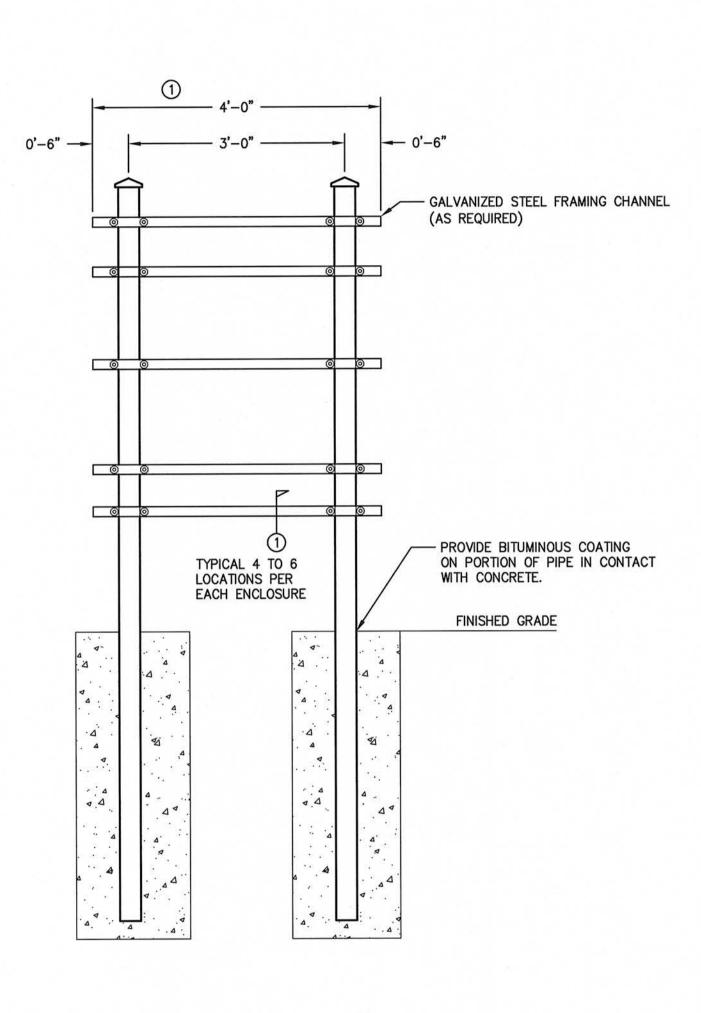
CITY OF GREENVILLE RIVER PARK NORTH SITE IMPROVEMENTS

**ELECTRICAL** PANEL SCHEDULES & ONE LINE DIAGRAM

E1.2



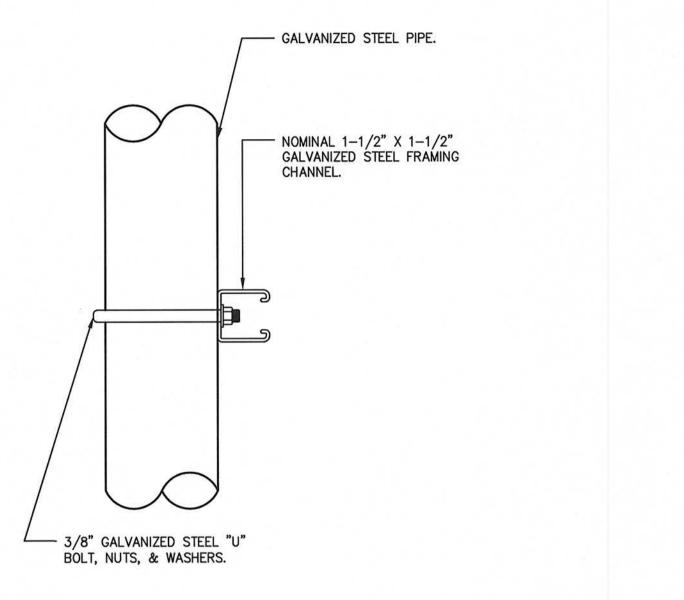
SIDE VIEW

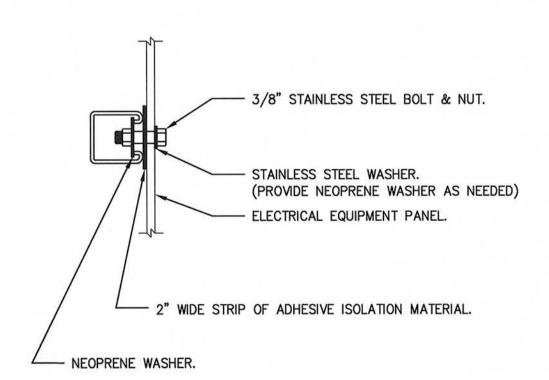


FRONT VIEW



DIMENSION FOR OVERALL EQUIPMENT MOUNTING
RACK WIDTH AND HEIGHT IS SHOWN FOR
REFERENCE PURPOSES ONLY. ACTUAL WIDTH AND
HEIGHT SHALL BE SIZED PER EQUIPMENT AND
SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
IN NO CASE SHALL THE EQUIPMENT MOUNTING RACK WIDTH BE LESS THAN 4'-0" IN WIDTH.

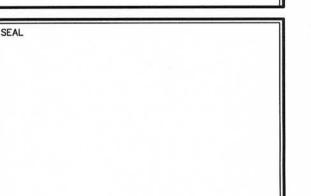


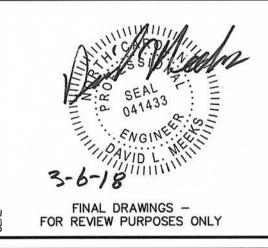


SECTION - 1



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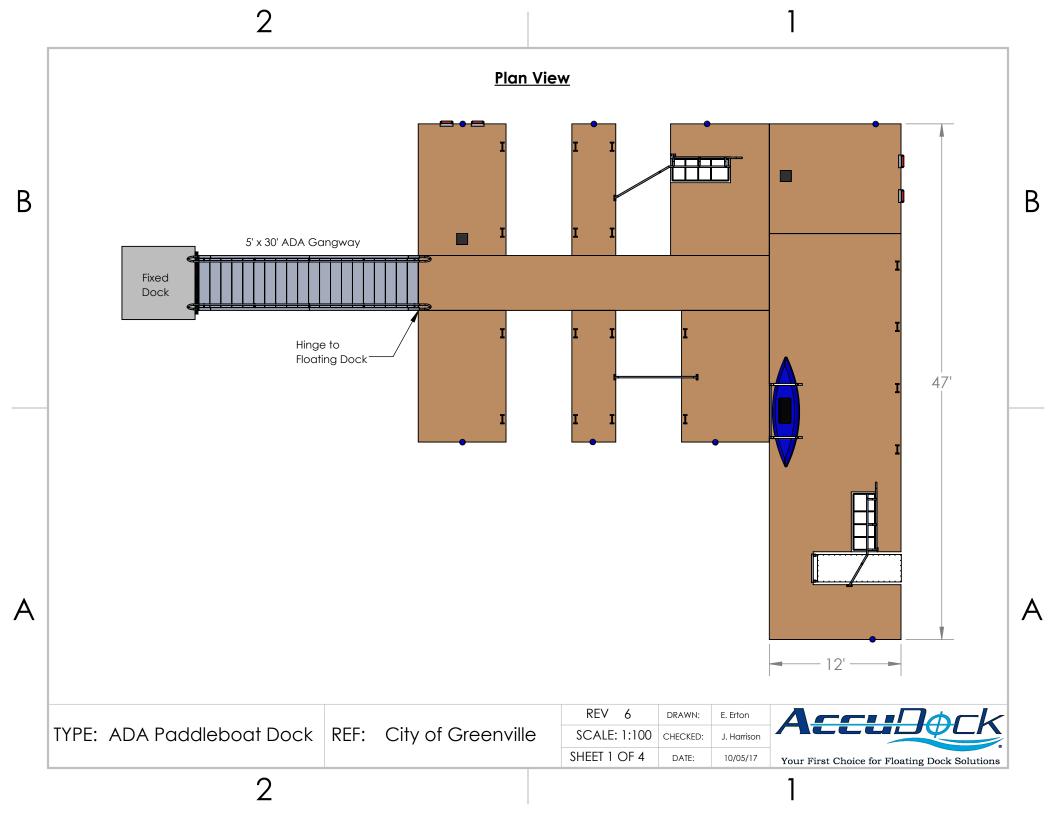
PROJECT #20170106 CLIENT PROJECT NO.

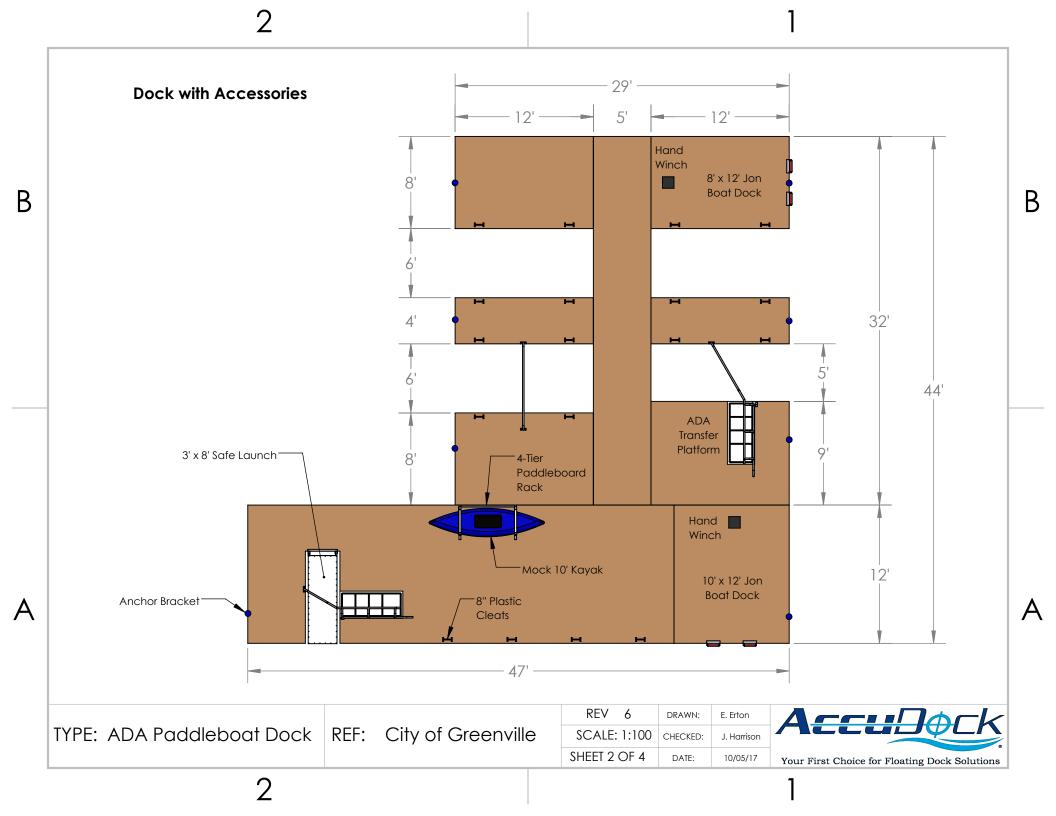
CITY OF GREENVILLE RIVER PARK NORTH SITE IMPROVEMENTS

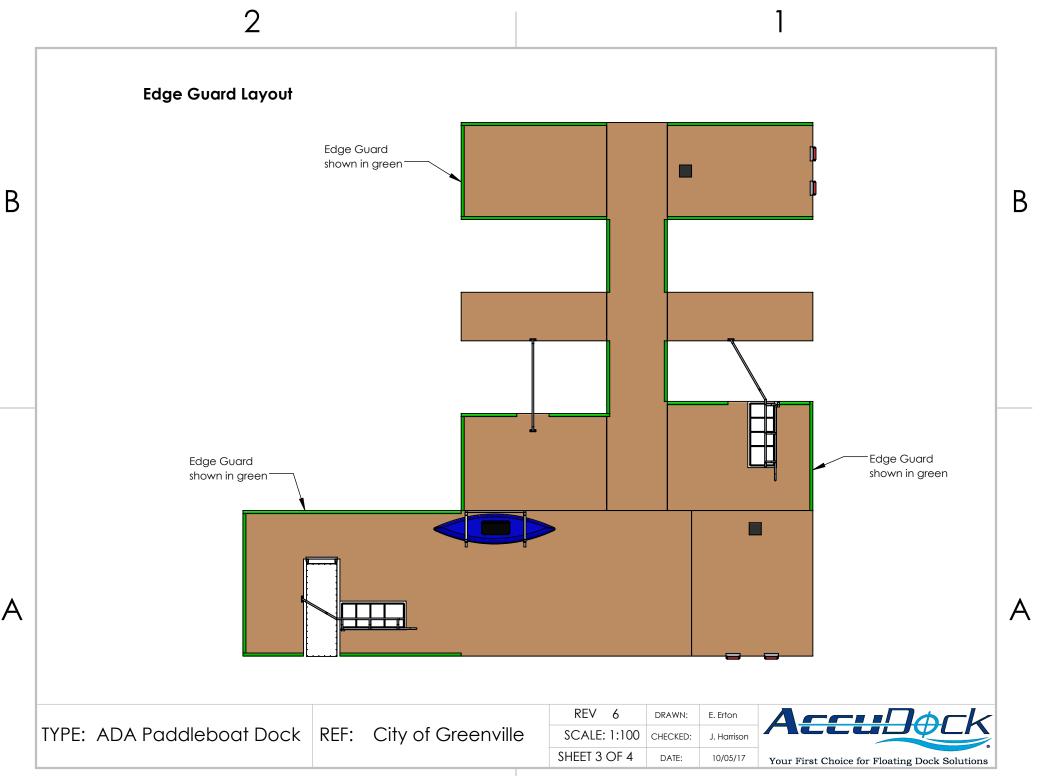
**ELECTRICAL EQUIPMENT RACK** & DETAILS

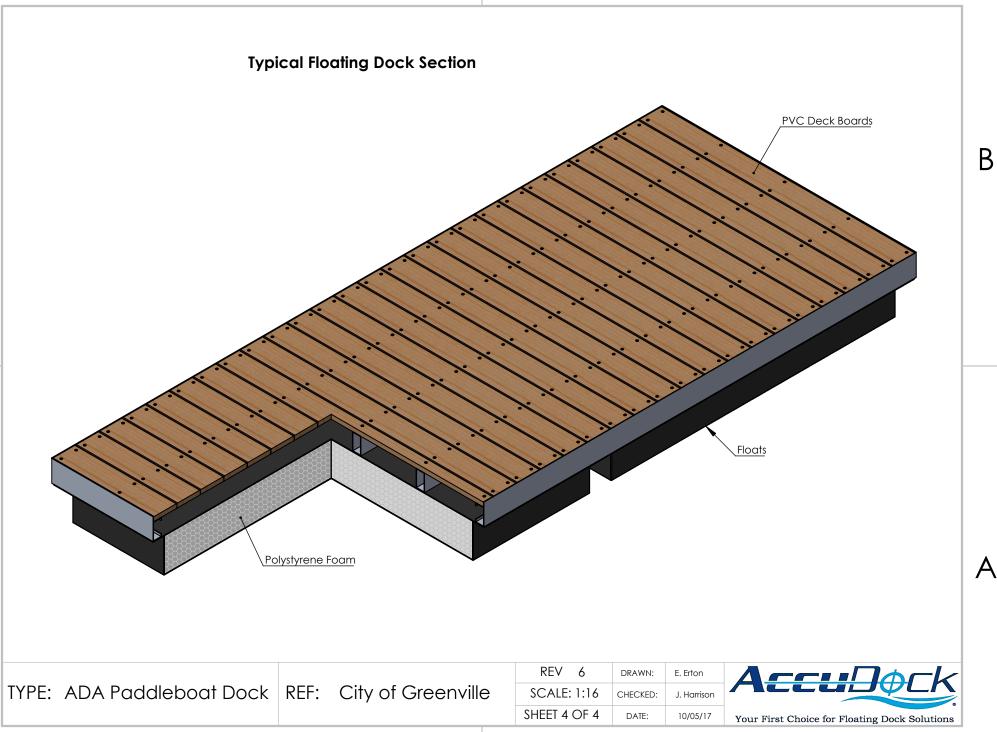
E1.3



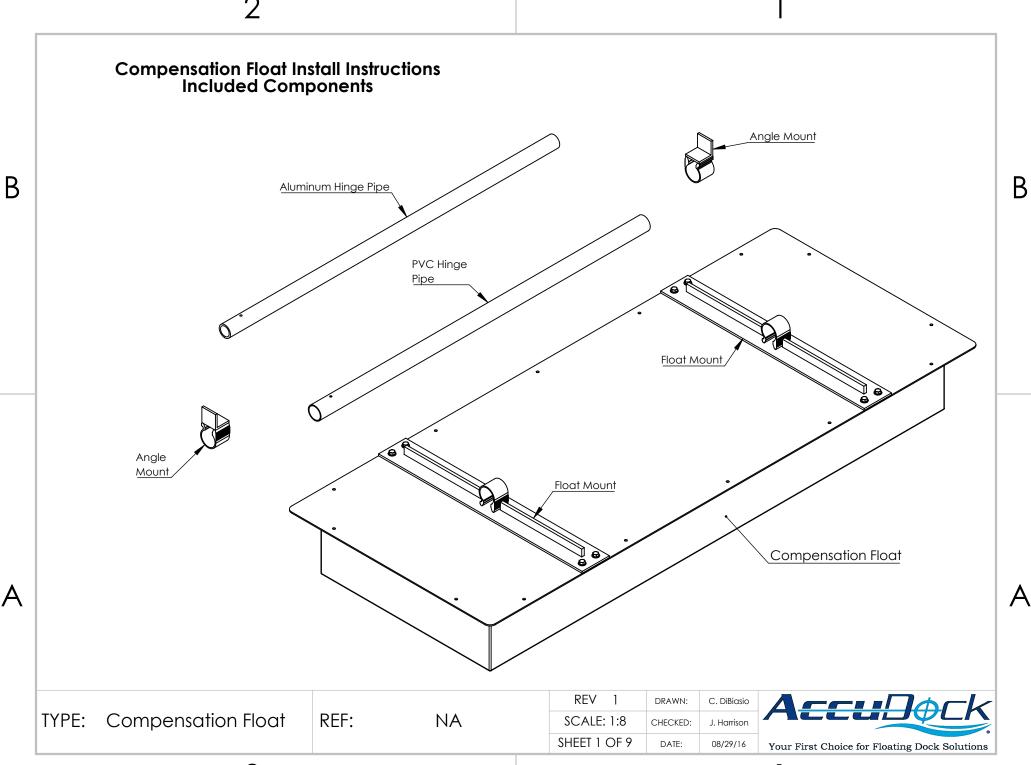




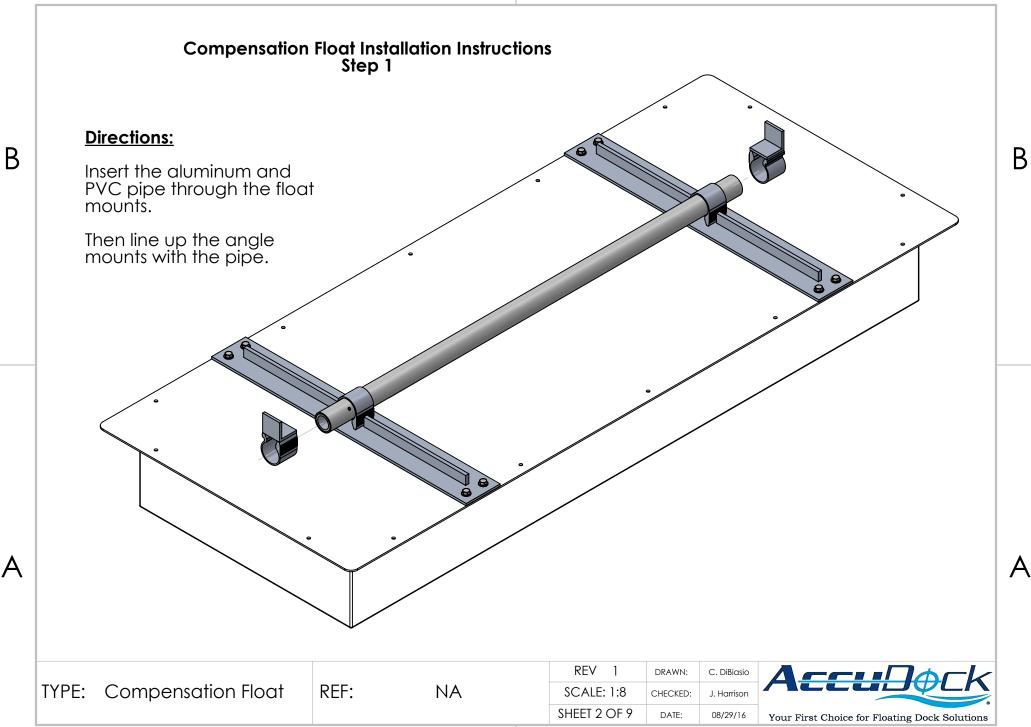




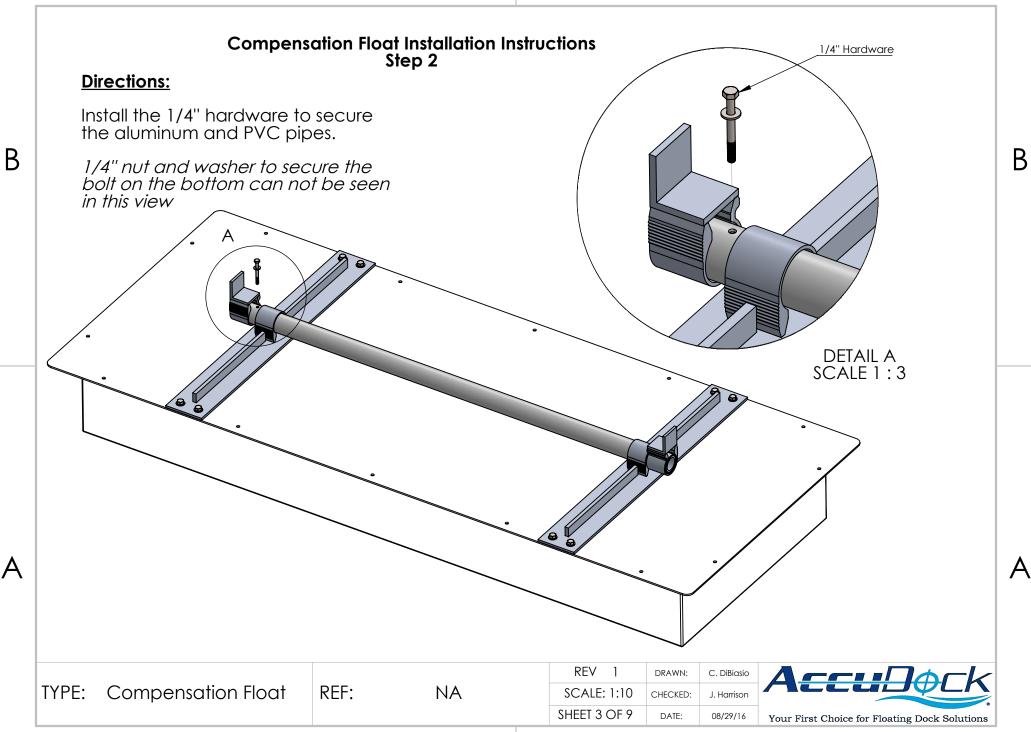
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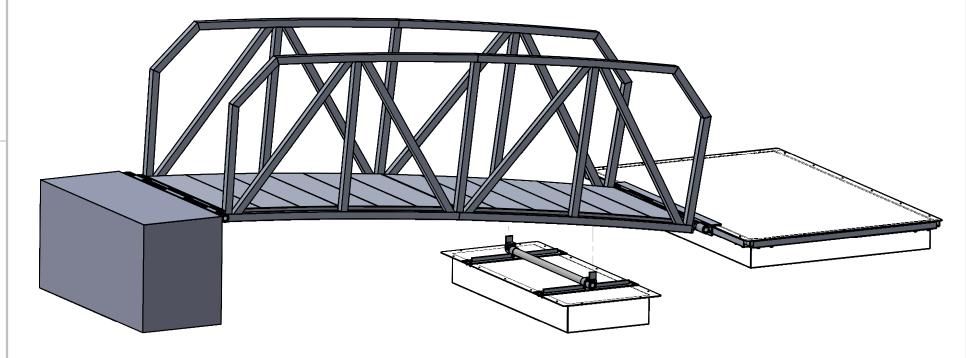


# Compensation Float Installation Instructions Step 3

В

# **Directions:**

Line up the compensation float angle mounts with the outer chords of the gangway.



 $\overline{\phantom{a}}$ 

REF:

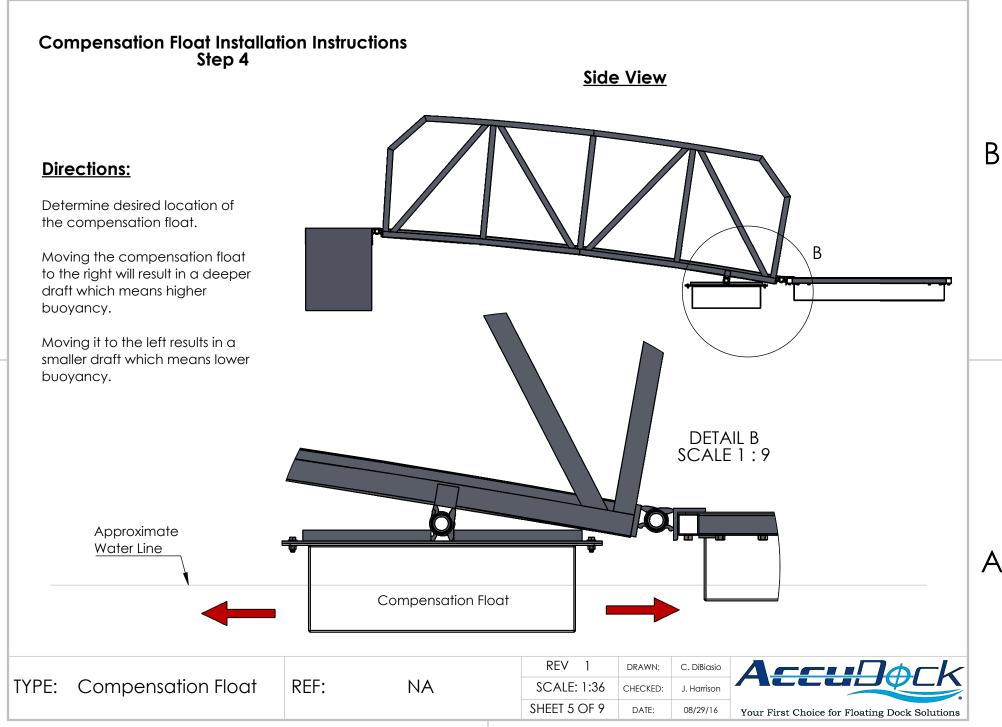
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REV 1	DRAWN:	C. DiBiasio
SCALE: 1:24	CHECKED:	J. Harrison
SHEET 4 OF 9	DATE:	08/29/16



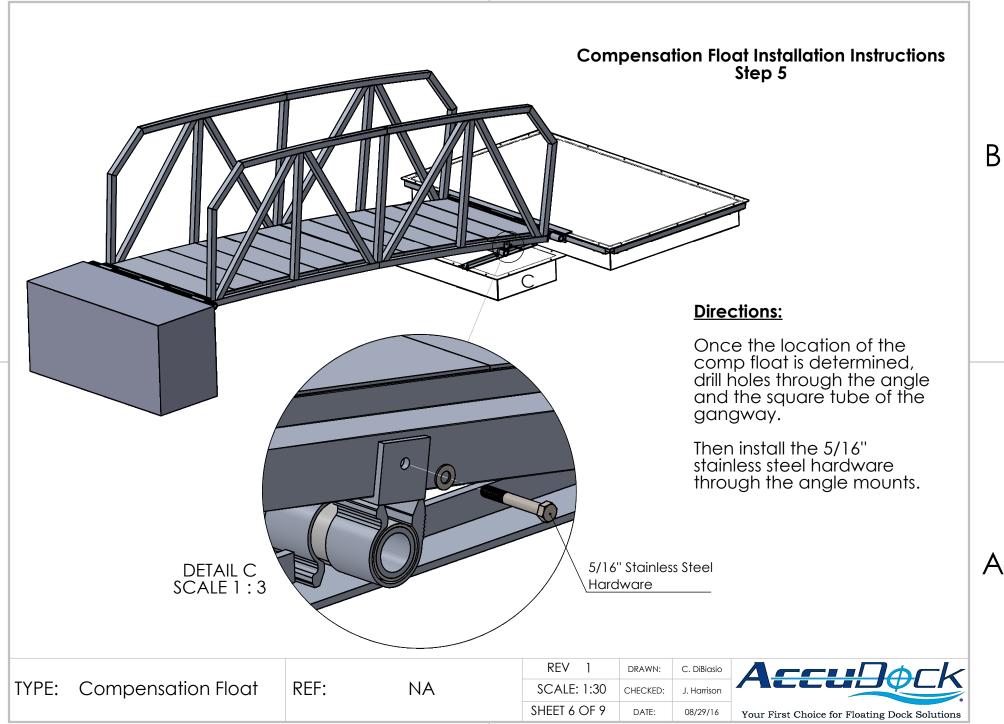
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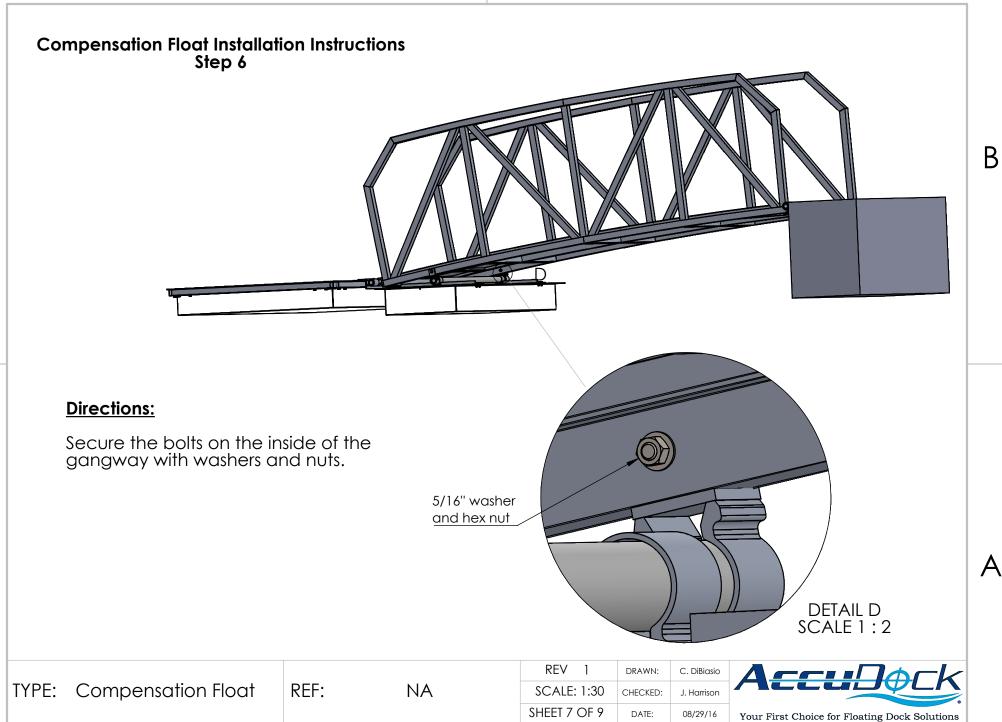
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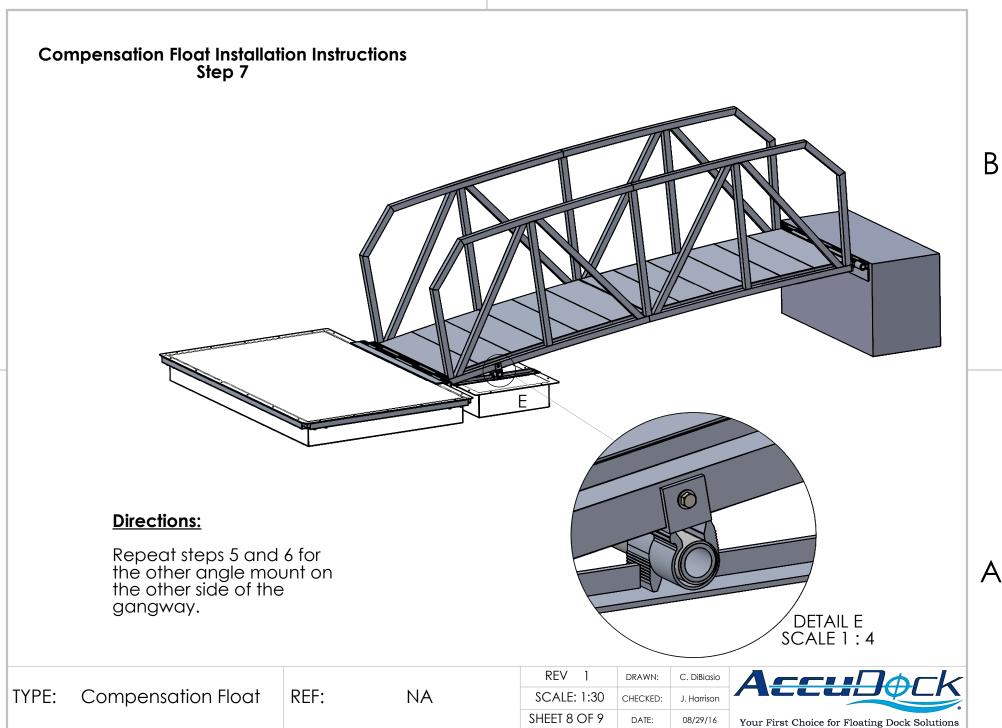


В



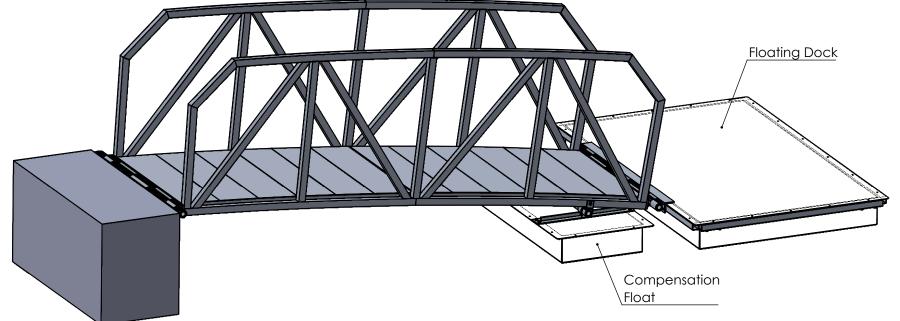


В



В

# Compensation Float Installation Instructions Step 8



## **Directions:**

Once the compensation float is installed, it should fully support the weight of the gangway so that the floating dock is not listing in any direction.

If the floating dock is listing, then the compensation float may have to be moved to adjust its draft.

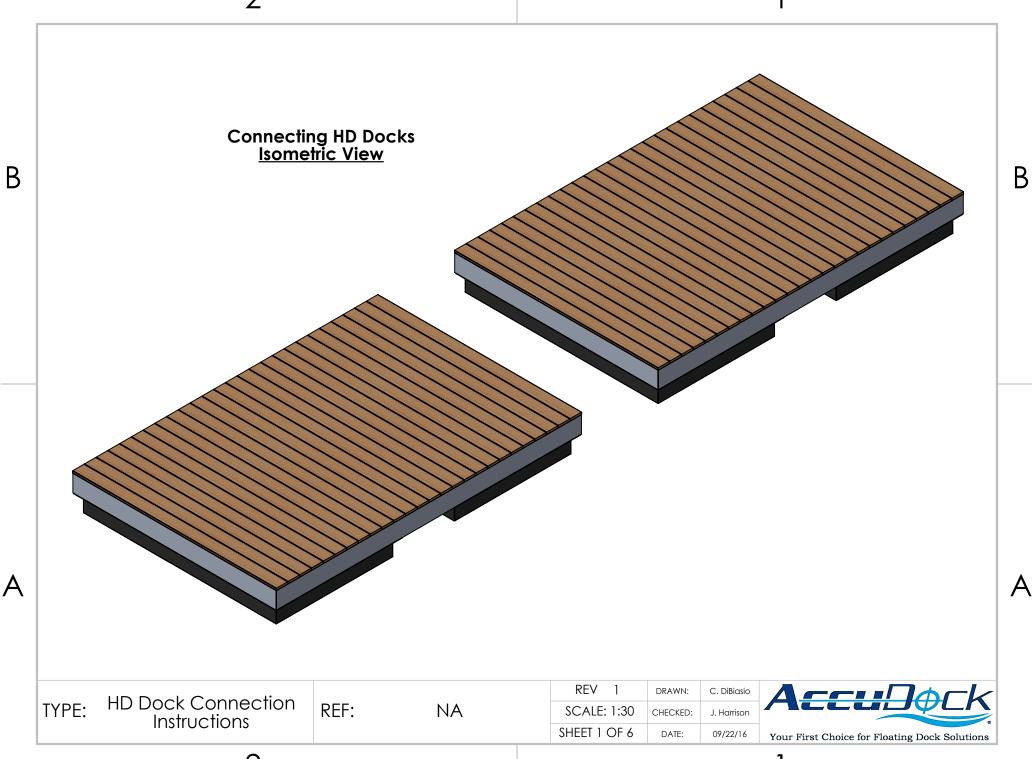
TYPE: Compensation Float REF:

NA

REV 1 DRAWN: C. DiBiasio SCALE: 1:30 CHECKED: J. Harrison SHEET 9 OF 9 DATE: 08/29/16



В





Line up the HD Docks that are to be bolted together.

В

Α

В

TYPE: HD Dock Connection Instructions

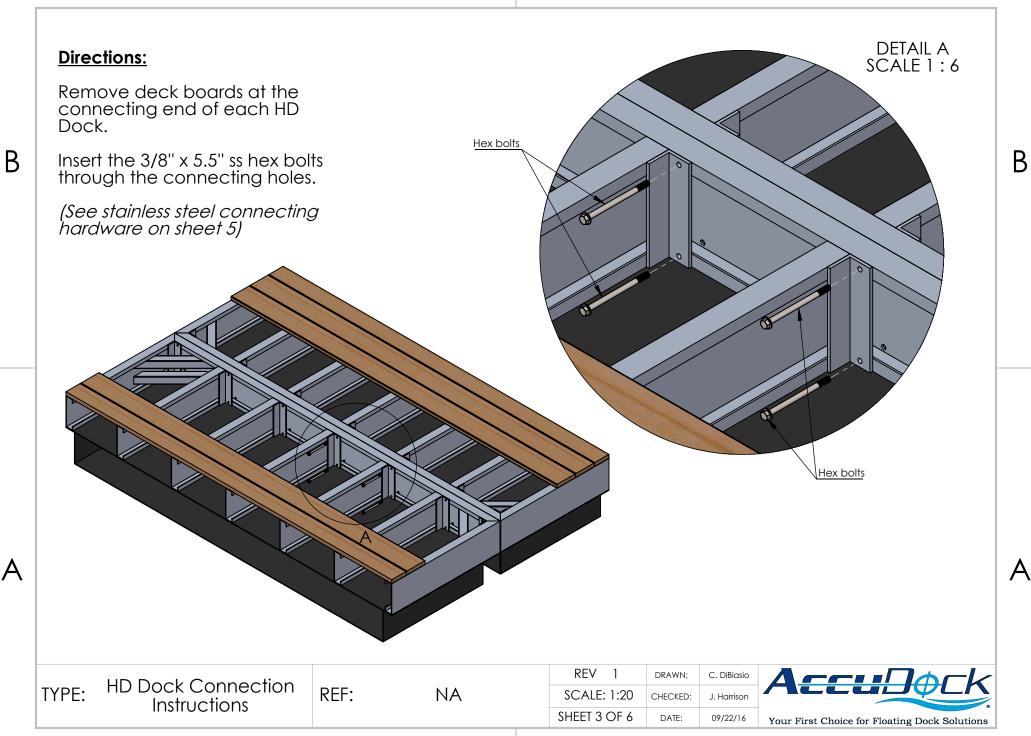
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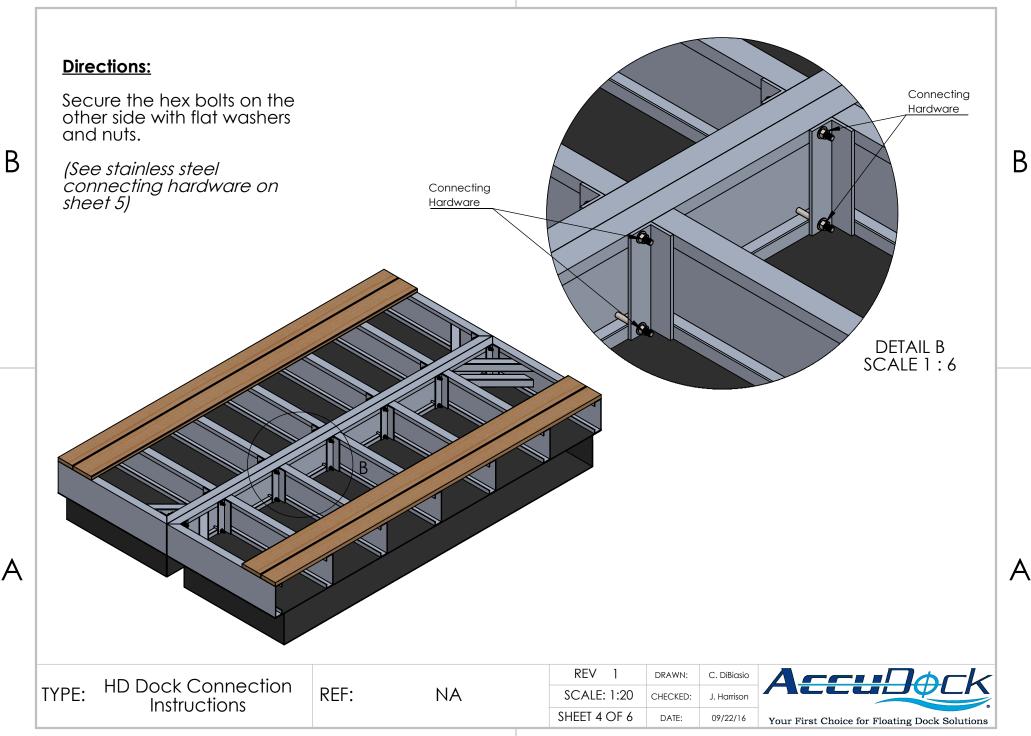
REV 1	DRAWN:	C. DiBiasio
SCALE: 1:16	CHECKED:	J. Harrison
SHEET 2 OF 6	DATE:	09/22/16

ACCUPACK

Your First Choice for Floating Dock Solutions

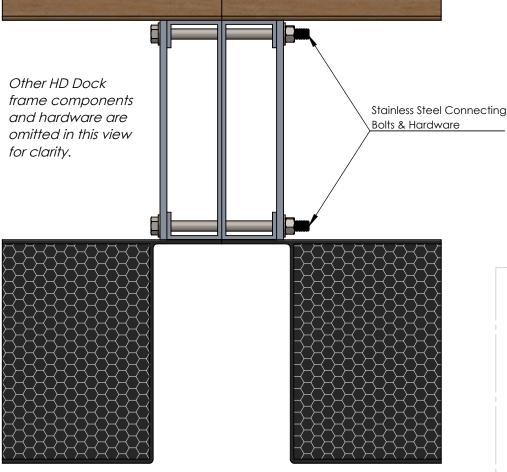


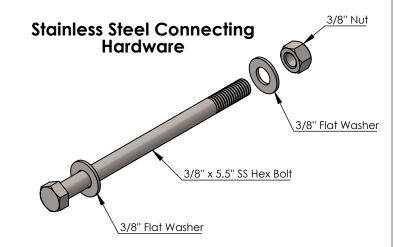












TYPE: HD Dock Connection Instructions

REF:

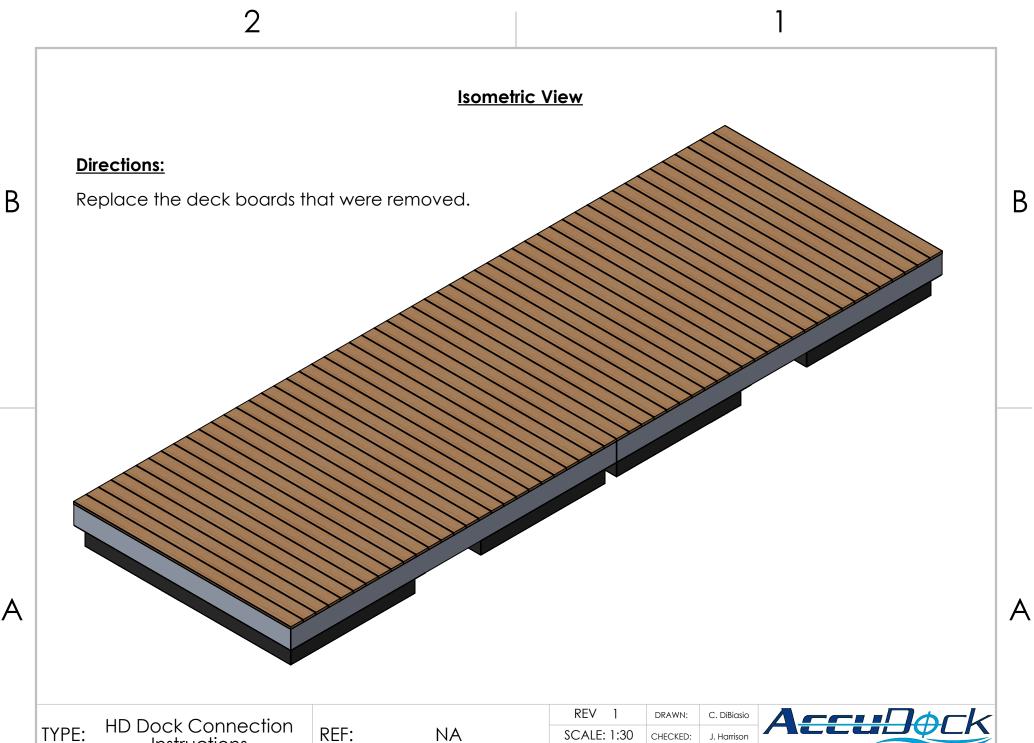
NA

REV 1 DRAWN: C. DiBiasio
SCALE: 1:4 CHECKED: J. Harrison
SHEET 5 OF 6 DATE: 09/22/16



В

2

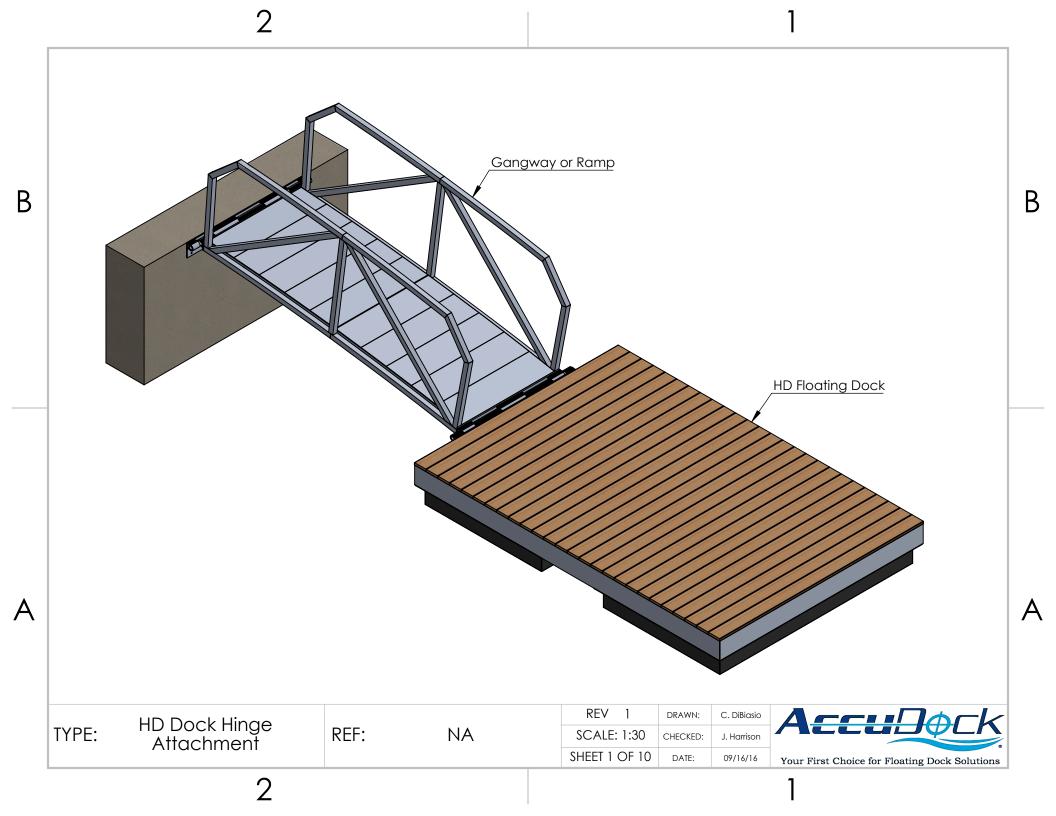


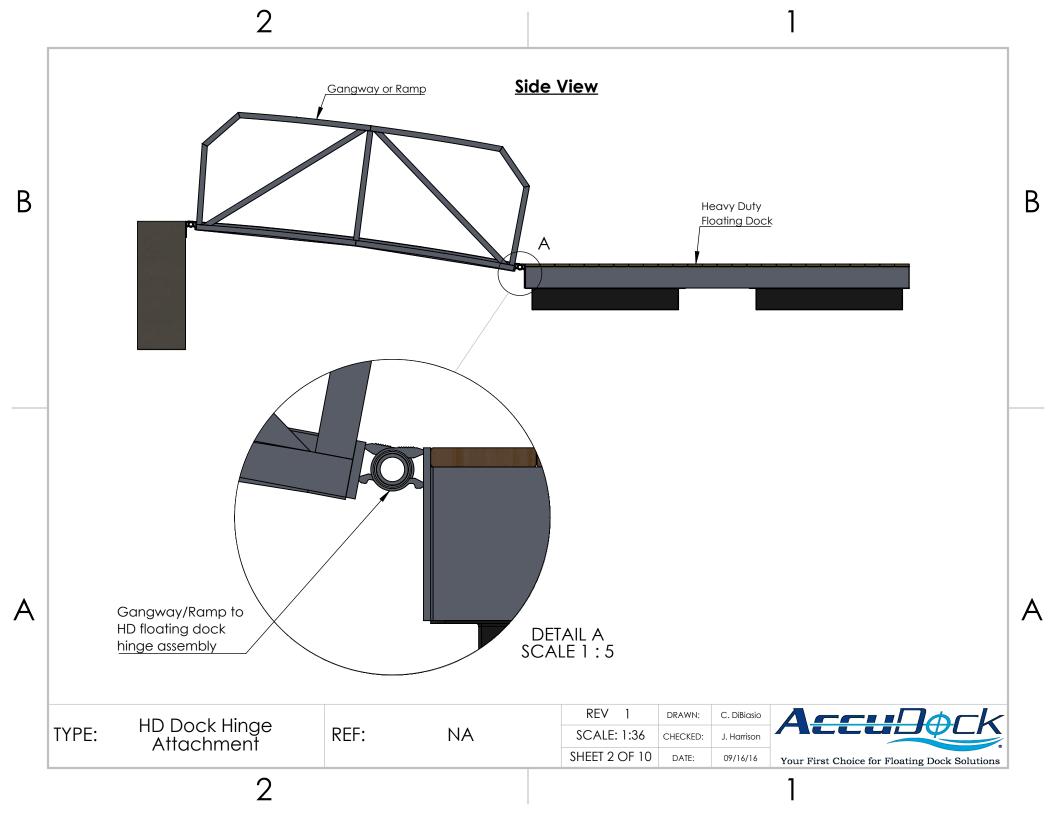
HD Dock Connection Instructions

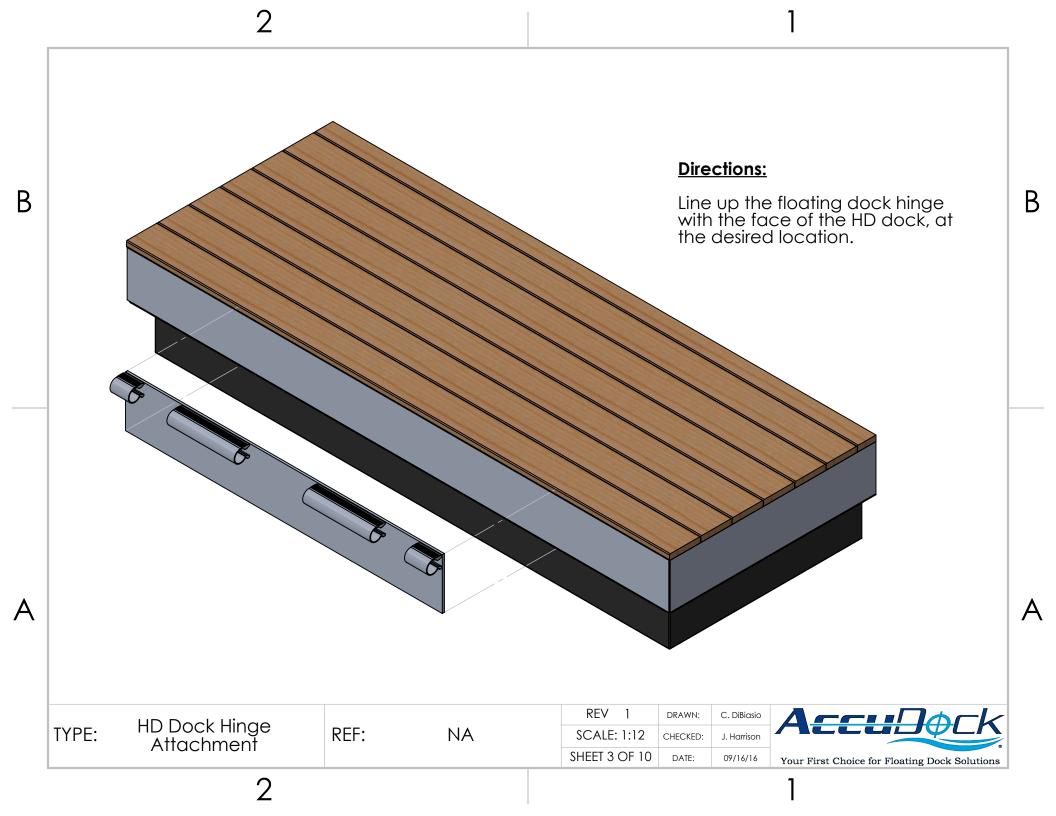
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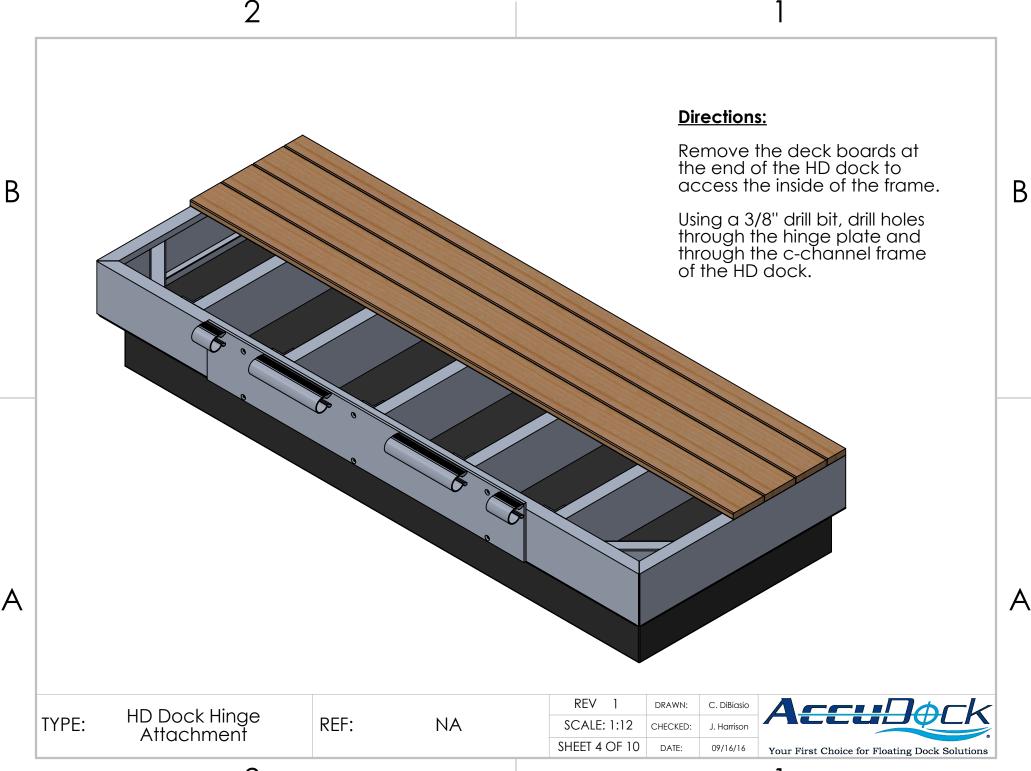
NA

SCALE: 1:30 CHECKED: J. Harrison SHEET 6 OF 6 DATE: 09/22/16 Your First Choice for Floating Dock Solutions

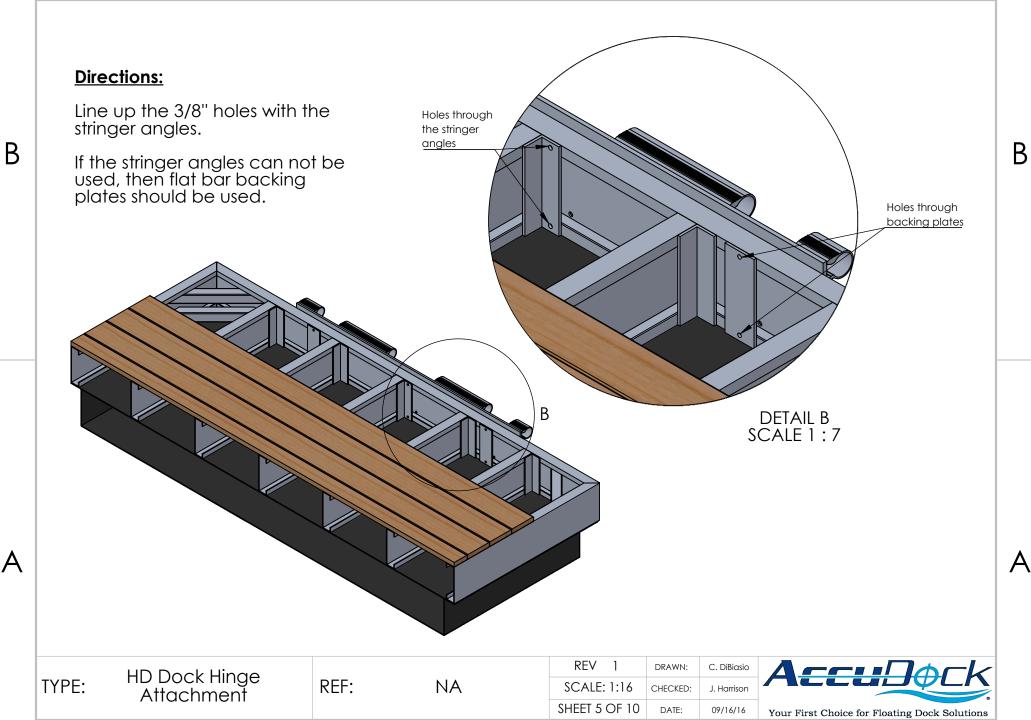


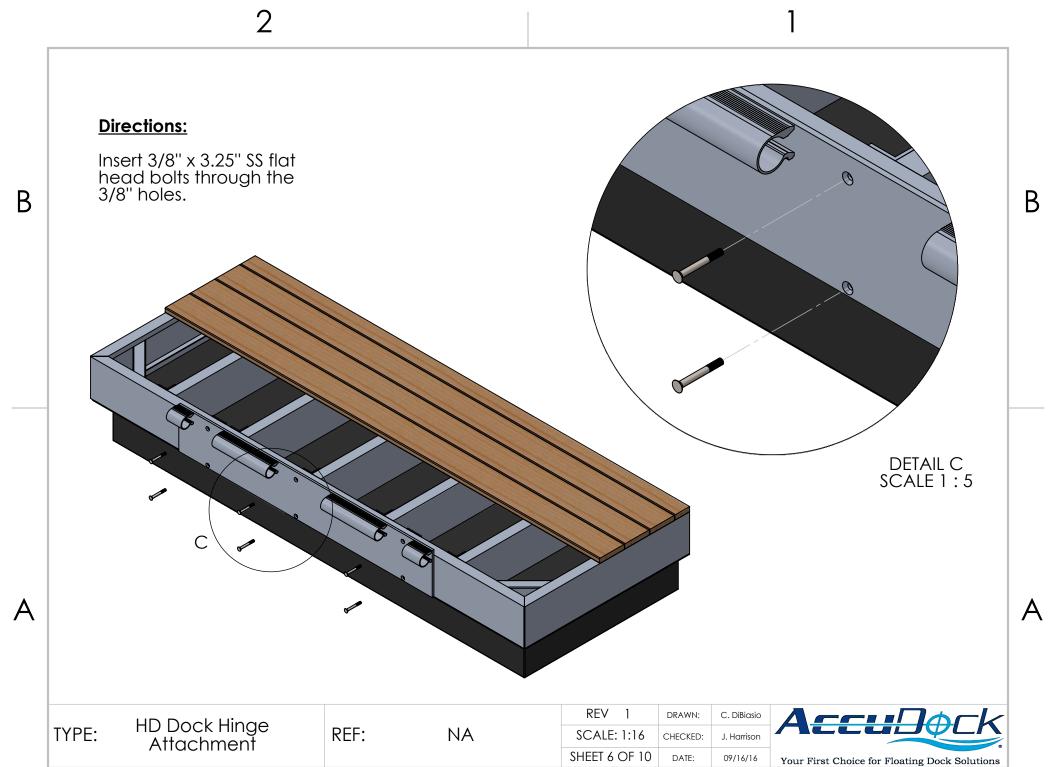


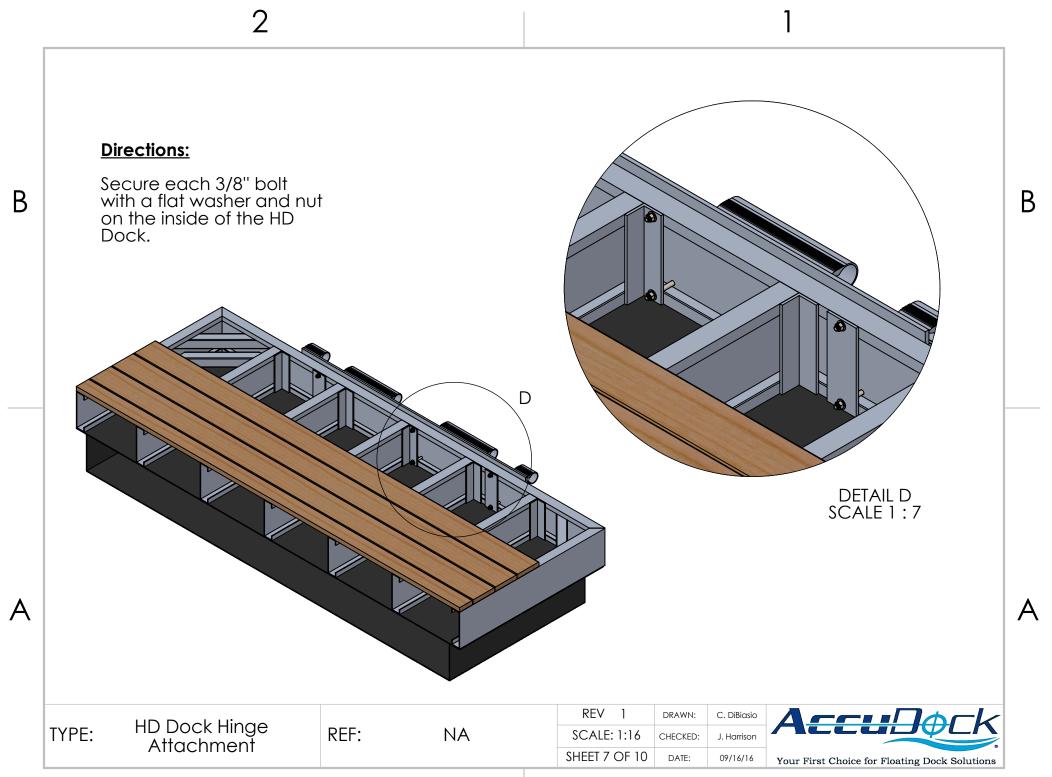


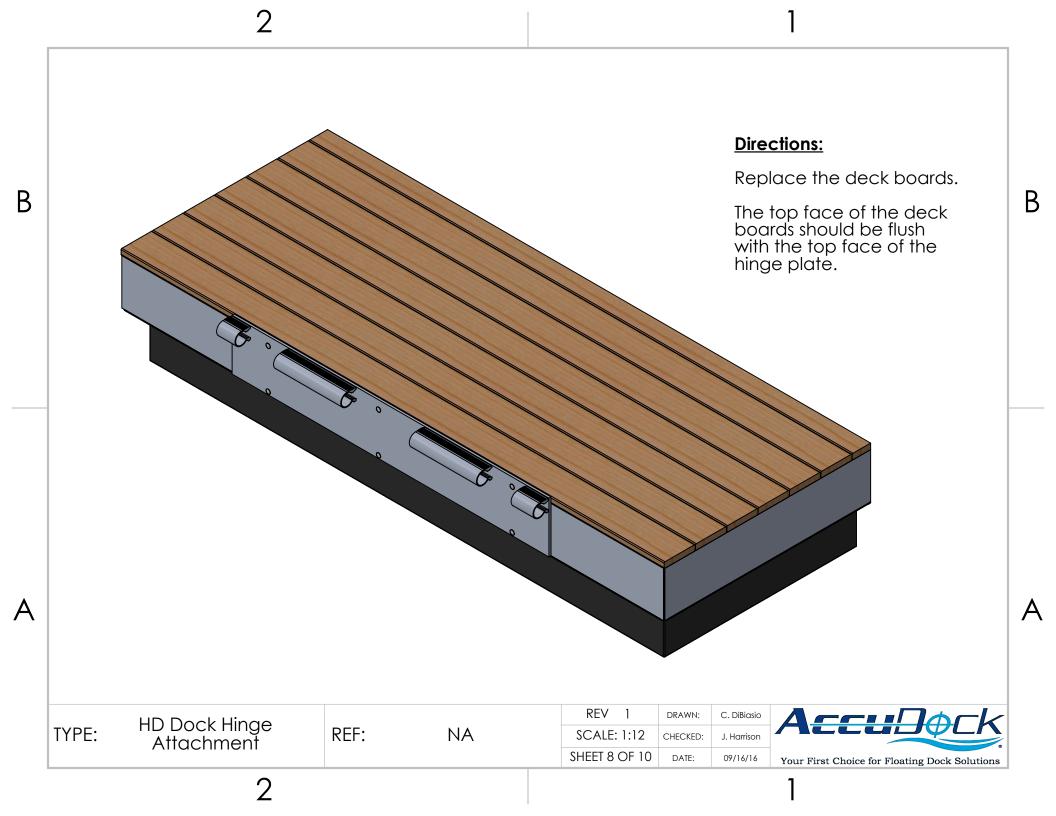






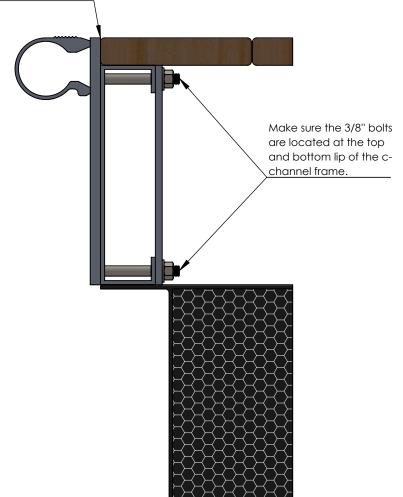








The top face of the deck boards should be flush with the top face of the hinge plate.



Α

В

TYPE: HD Dock Hinge Attachment

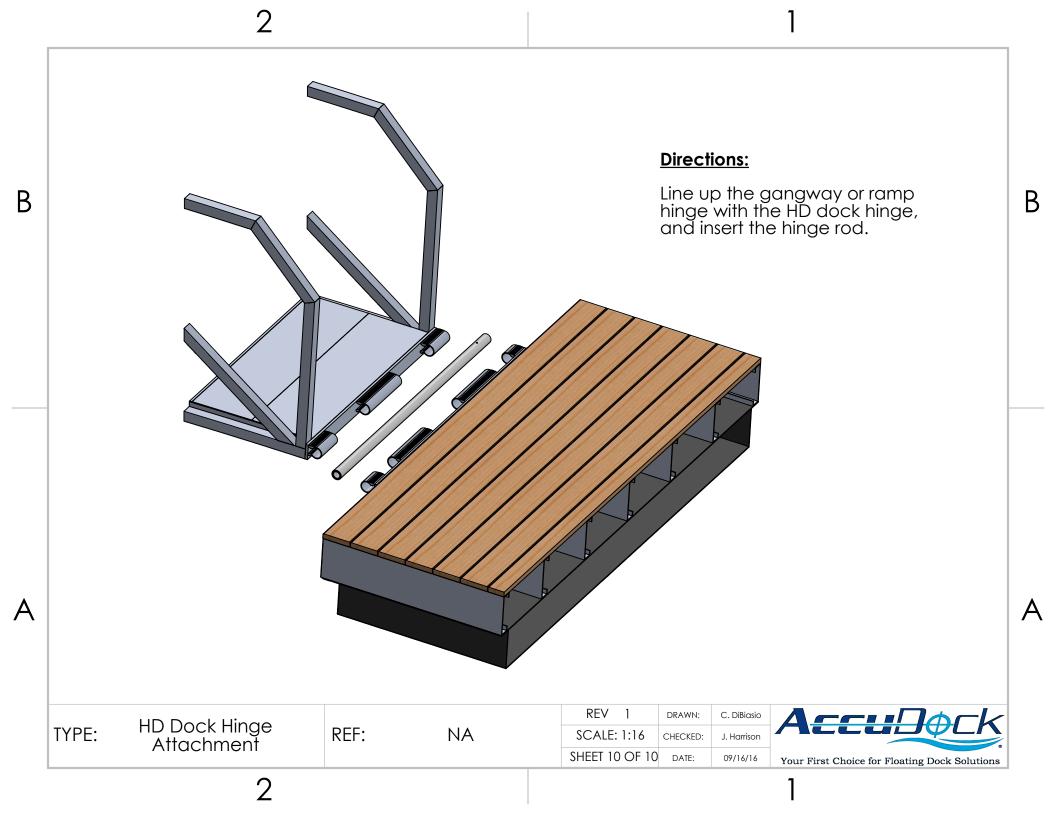
REF: NA

REV 1 DRAWN: C. DiBiasio

SCALE: 1:4 CHECKED: J. Harrison

SHEET 9 OF 10 DATE: 09/16/16





## **Required Tools for Assembly:**

5/16" Wrench

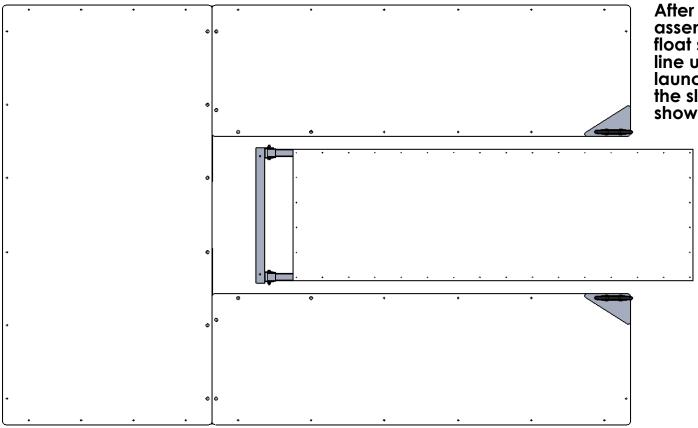
Cordless drill with 5/16" drill bit

# Safe Launch Installation Instructions Step 1 "Line Up the Safe Launch in the Slip"

### **Directions:**

After assembling the float sections, line up the safe launch inside the slip as shown.

В



**Plan View** 

PART:

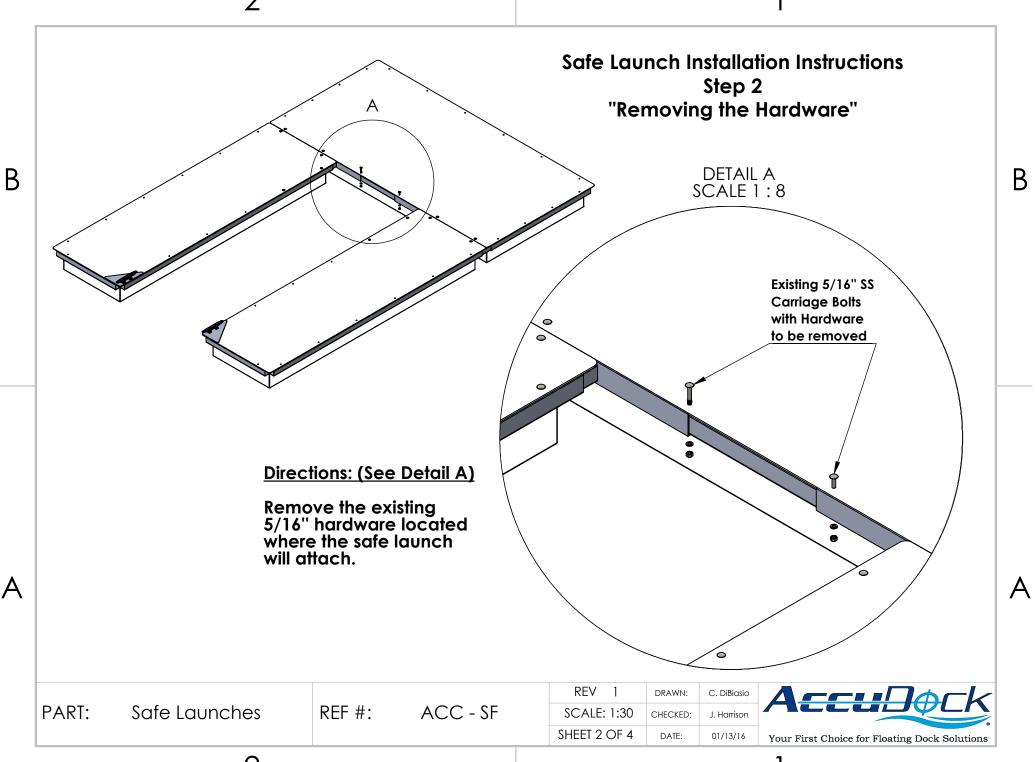
Safe Launches

REF #:

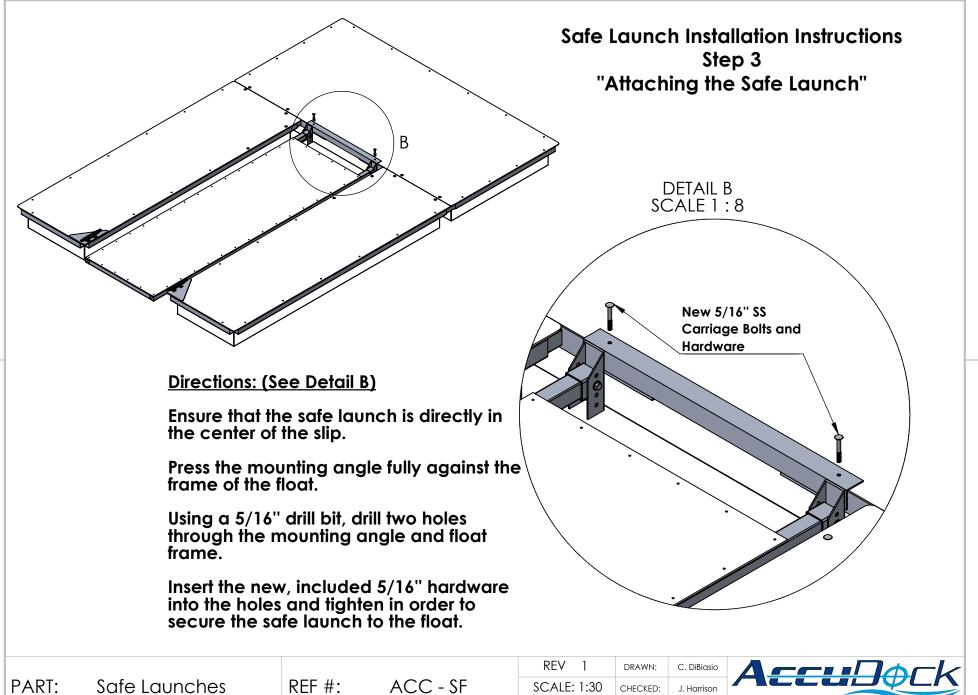
ACC - SF

REV 1	DRAWN:	C. DiBiasio
SCALE: 1:22	CHECKED:	J. Harrison
SHEET 1 OF 4	DATE:	01/13/16









SHEET 3 OF 4

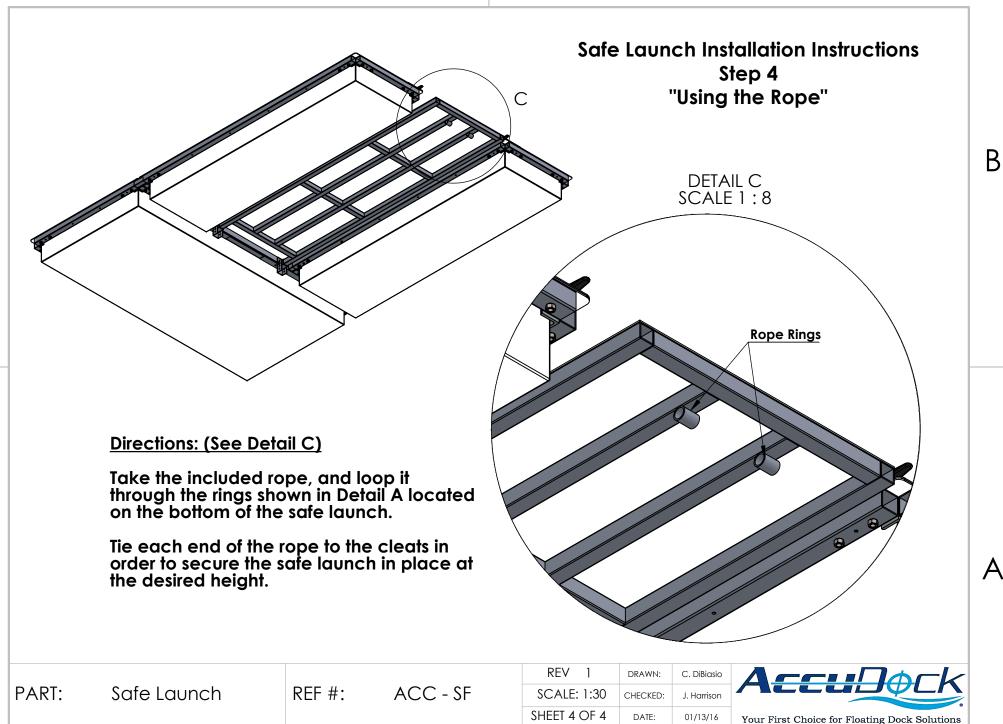
DATE:

2

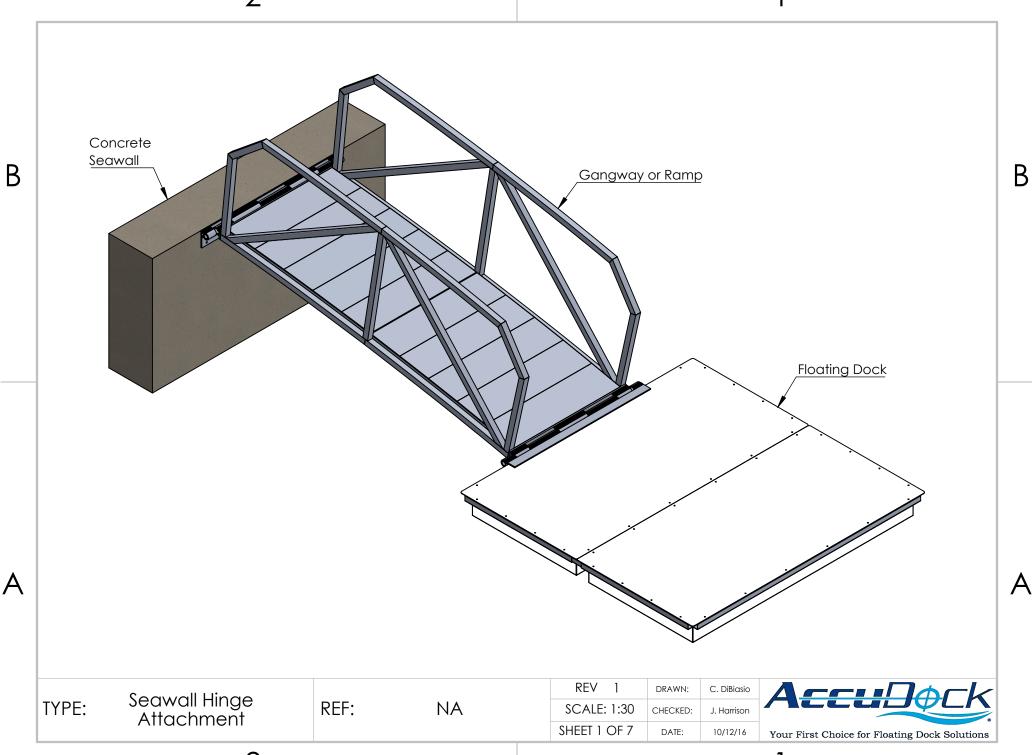
В

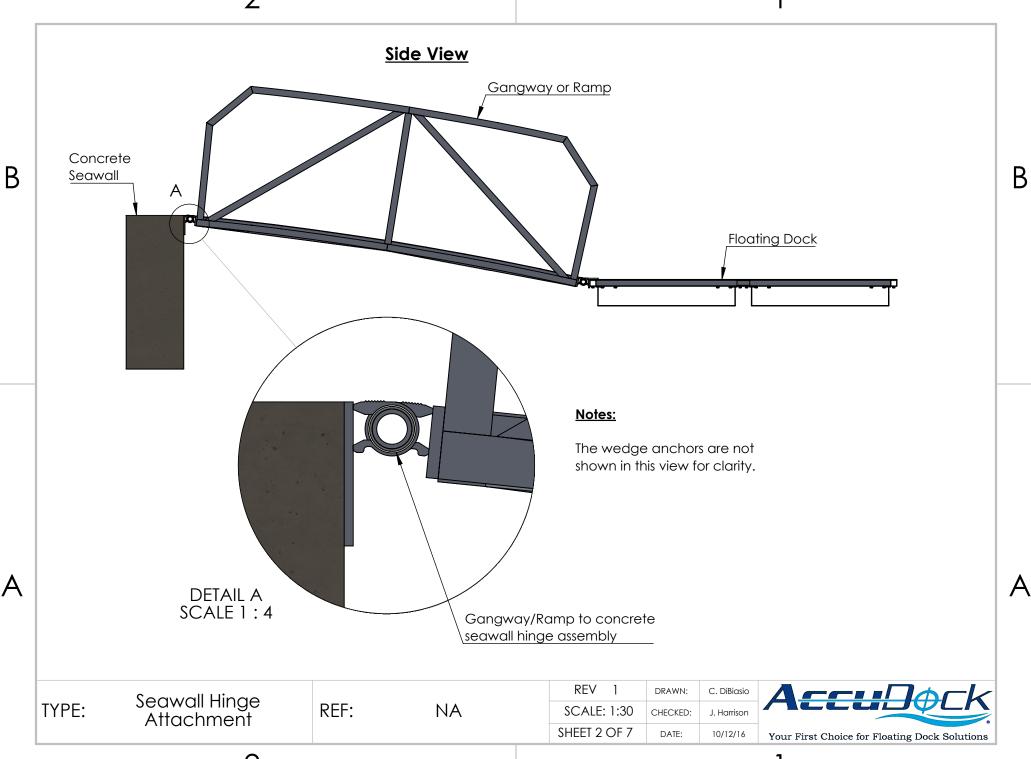
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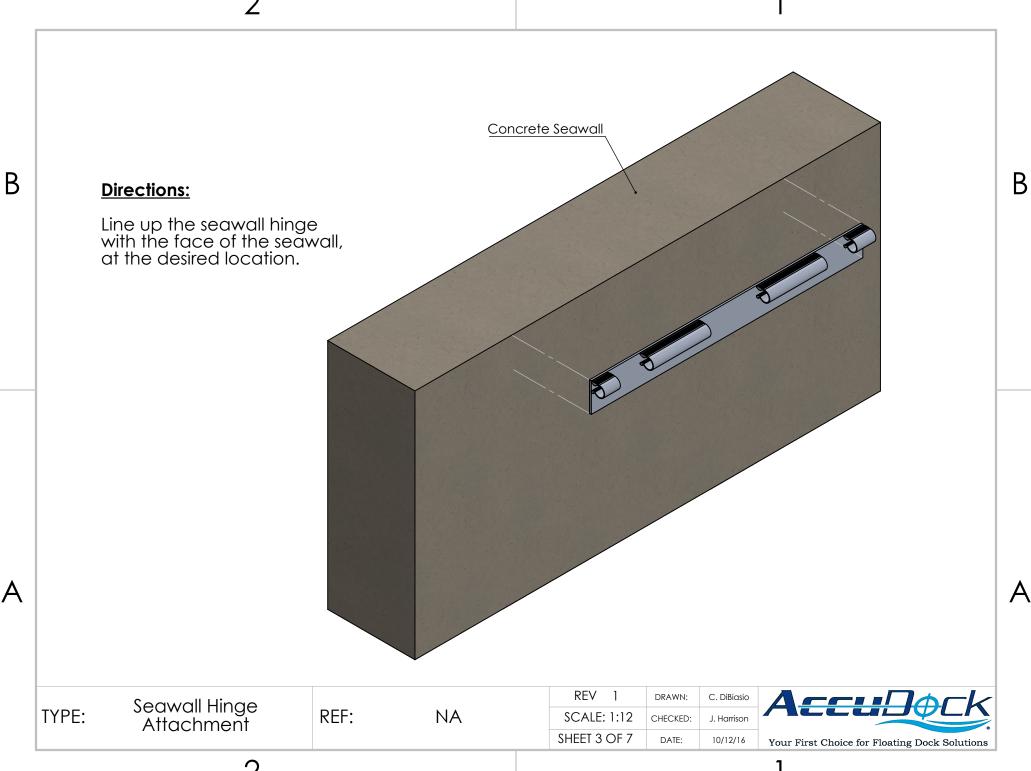
01/13/16



В





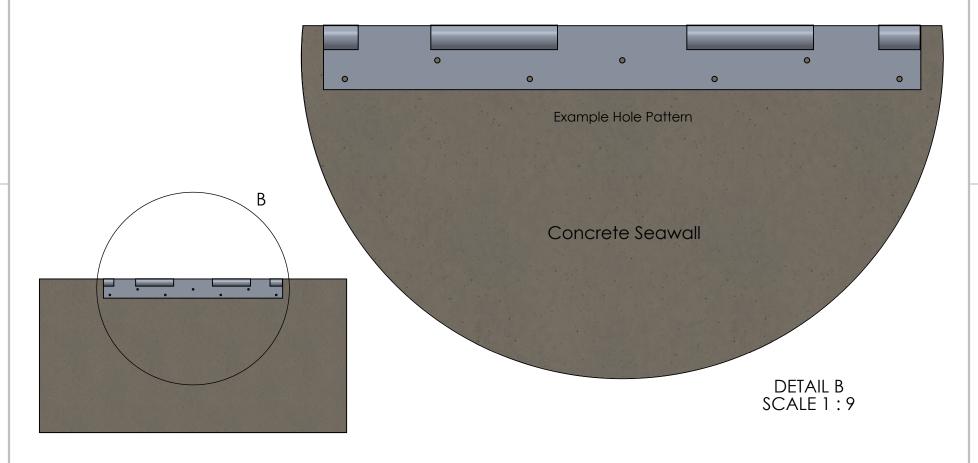


#### **Directions:**

Holes for the wedge anchors should be drilled in a similar pattern as shown here.

The quantity of wedge anchors and spacing between them is dependent on the length and width of the gangway/ ramp.

В

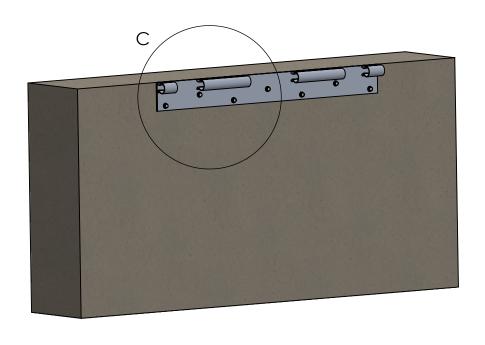


TYPE:	Seawall Hinge
1 1 1 L.	Attachment

REF: NA

REV 1	DRAWN:	C. DiBiasio
SCALE: 1:30	CHECKED:	J. Harrison
SHEET 4 OF 7	DATE:	10/12/16





## **Directions:**

В

Insert the 1/2" stainless steel wedge anchors through the hinge plate and into the concrete seawall.

DETAIL C
SCALE 1:8

TYPE: Seawall Hinge Attachment

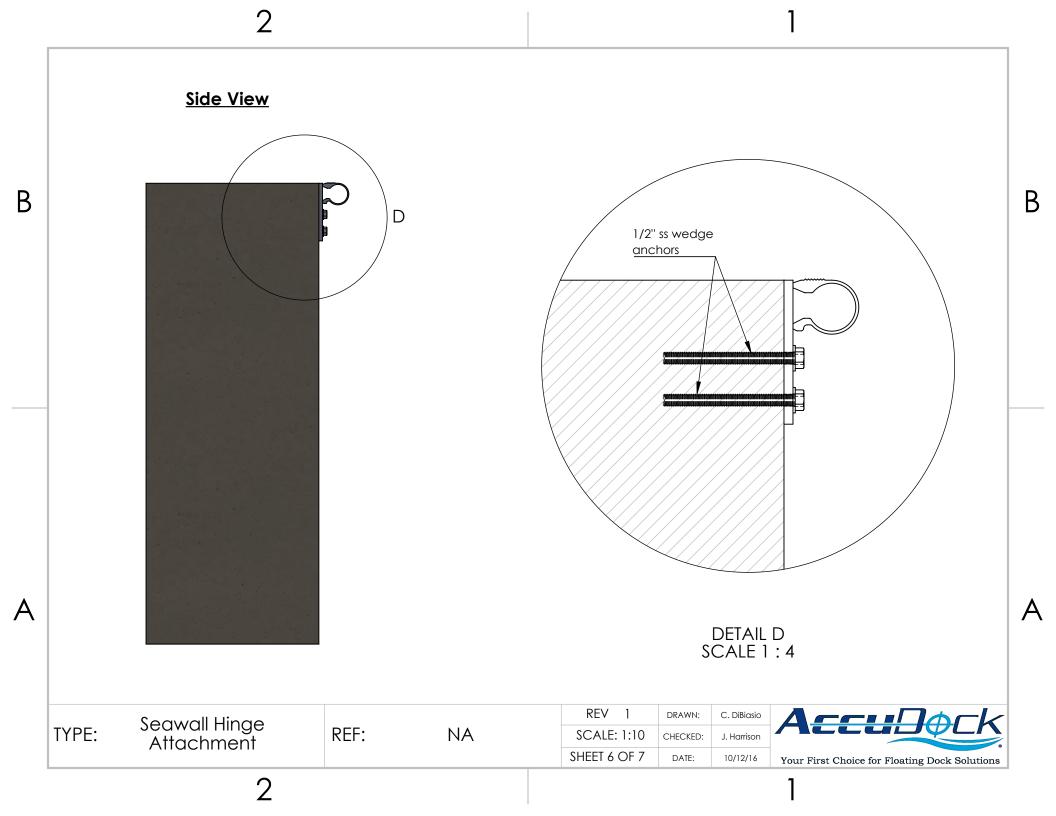
REF: NA

REV 1 DRAWN: C. DiBiasio
SCALE: 1:20 CHECKED: J. Harrison
SHEET 5 OF 7 DATE: 10/12/16



2

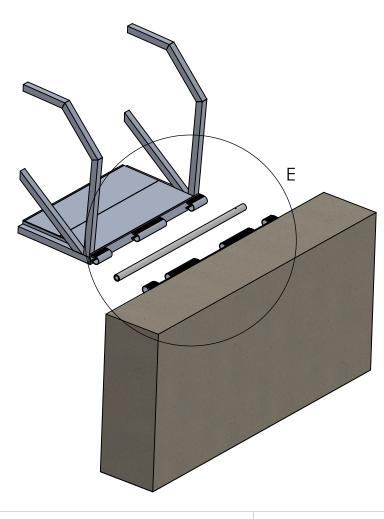
A

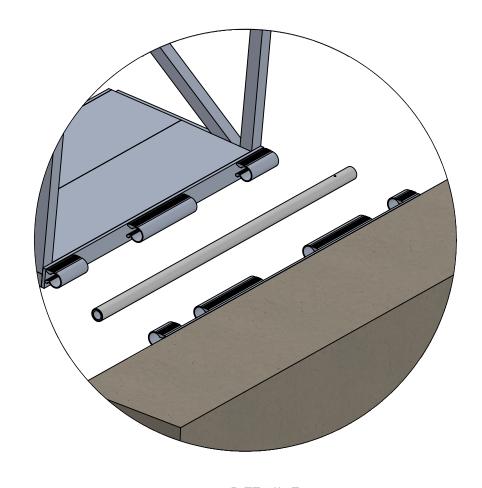


# **Directions:**

Line up the gangway/ramp hinge with the seawall hinge, and insert the hinge rod.

В





DETAIL E SCALE 1:13

TYPE:

Seawall Hinge Attachment

REF:

NA

REV 1 DRAWN: C. DiBiasio

SCALE: 1:24 CHECKED: J. Harrison

SHEET 7 OF 7 DATE: 10/12/16

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