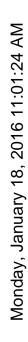
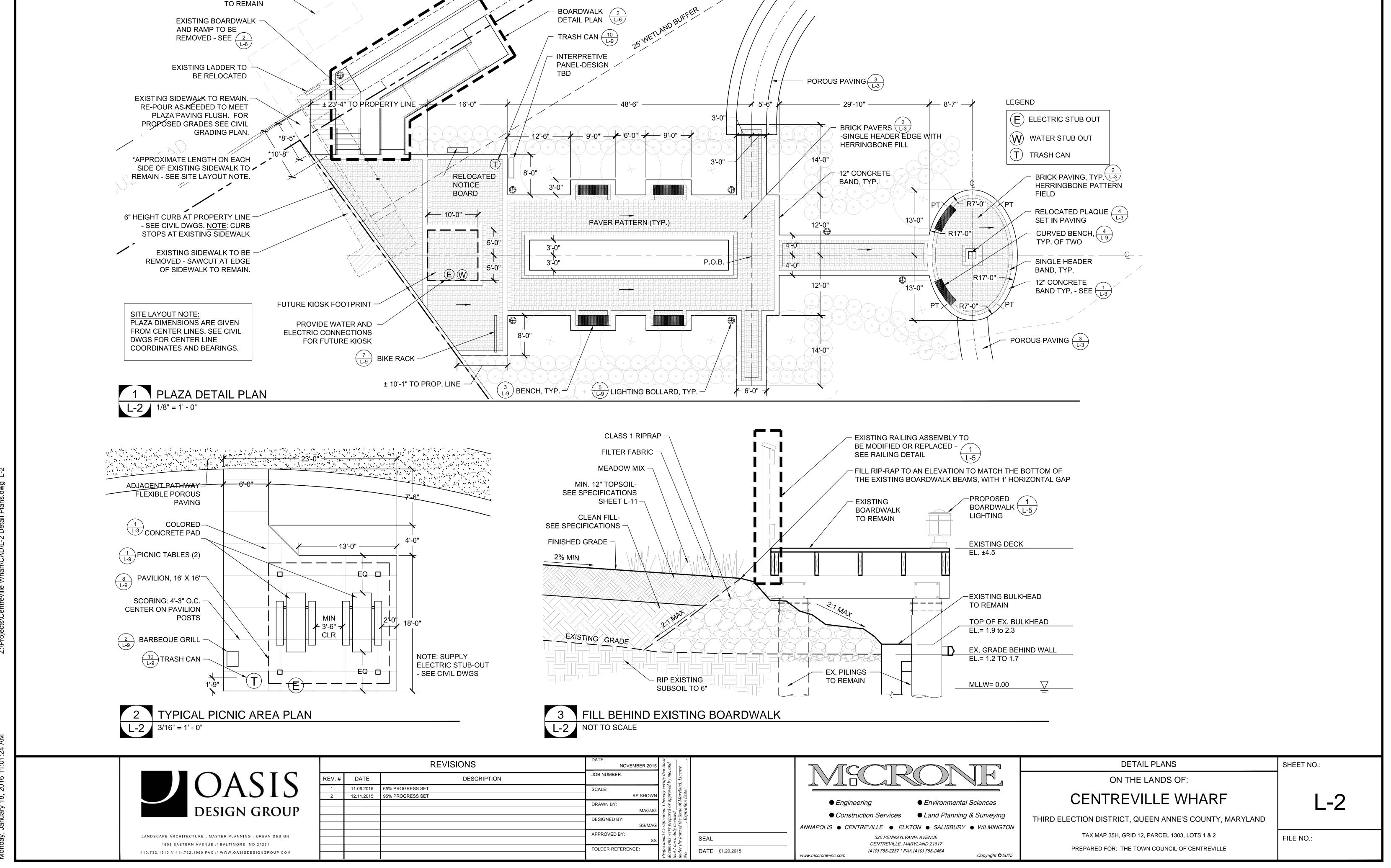
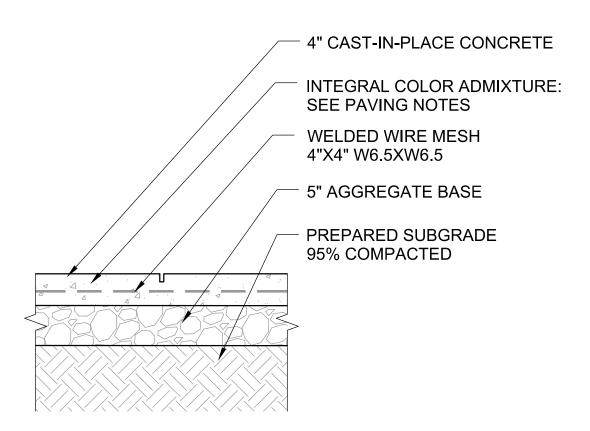




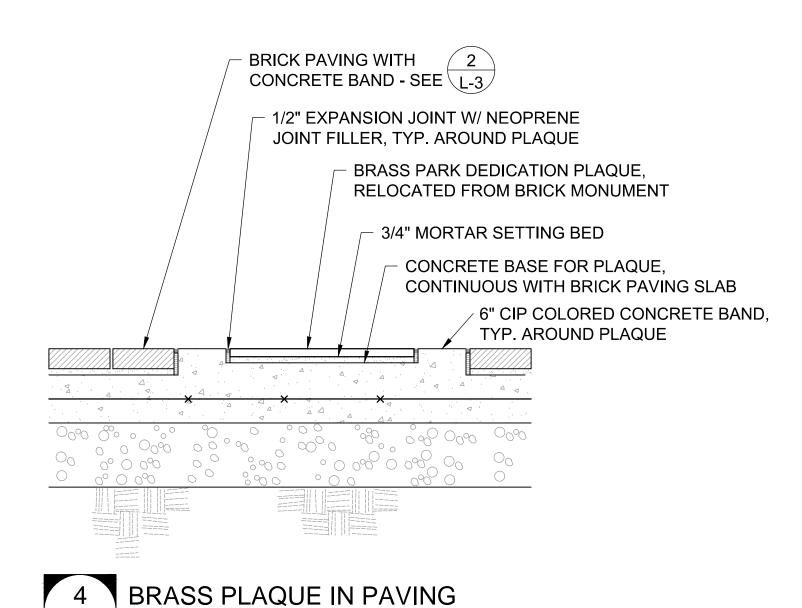
EXISTING KAYAK LAUNCH AND DOCK

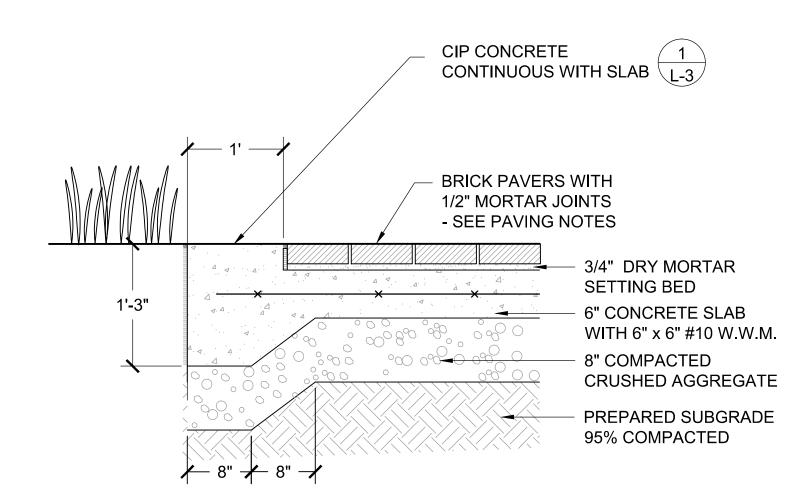














#### NOTES:

1. INTEGRAL COLOR ADMIXTURE: SCOFIELD CHROMIX ADMIXTURE COLOR: TO MATCH FLEXIBLE **POROUS PAVING** SUBMIT SAMPLES FOR **SELECTION BY OWNER** CONTACT: FORM SERVICES INC BALTIMORE, MD (410) 247-9500

2. BRICK PAVERS: ENDICOTT BRICK PAVERS COLOR: ROSE BLEND CONTACT: POTOMAC VALLEY BRICK (410) 682-6700 BALTIMORE, MD WWW.PVBRICK.COM

3. MORTAR COLOR: SUBMIT SAMPLES FOR SELECTION BY OWNER

4. FLEXIBLE POROUS PAVEMENT: POROUS PAVE XL SERIES COLOR: TAN. MANUFACTURER: POROUS PAVE, INC., GRANT, MICHIGAN. (888) 448-3873 WWW.POROUSPAVINC.COM OR APPROVED EQUIVALENT

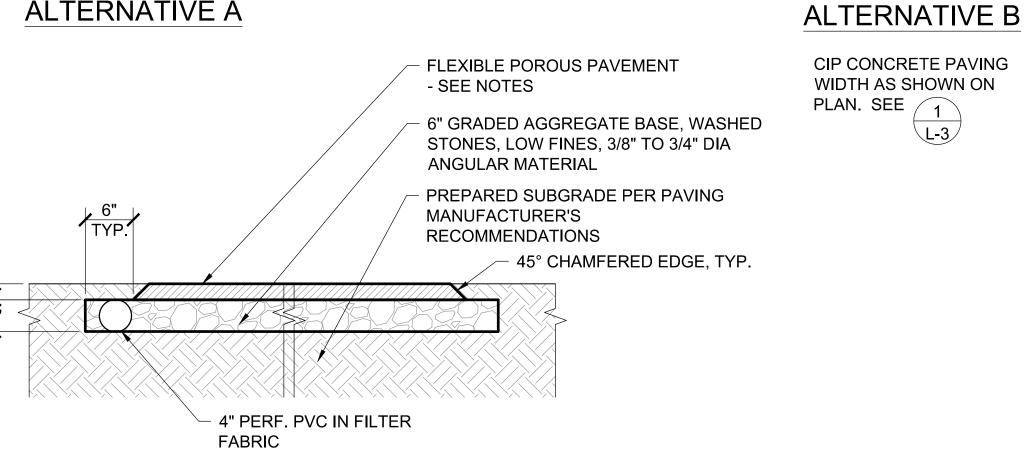
5. STONE VENEER: LEDGE ROCK BUILDING STONE 4" MAXIMUM NATURAL STRIPS CONTACT: VINCI STONE (410) 442-4000 MARRIOTSVILLE, MD

6. CAST STONE: COLOR TO BE CHOSEN TO MATCH STONE VENEER. SUBMIT SAMPLES FOR SELECTION BY OWNER

SEAL

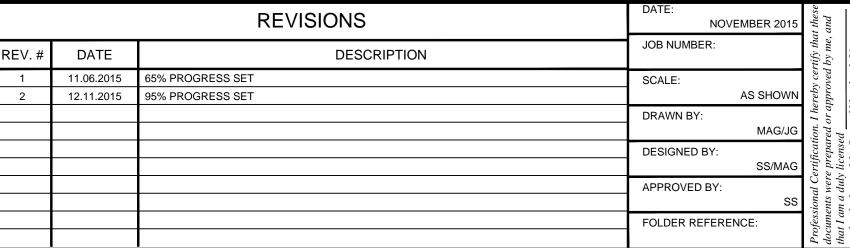
DATE 01.20.2015













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**DETAILS - PAVING** ON THE LANDS OF:

CENTREVILLE WHARF

THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND

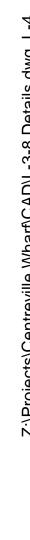
TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2

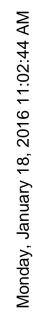
L-3

FILE NO.:

SHEET NO.:

PREPARED FOR: THE TOWN COUNCIL OF CENTREVILLE

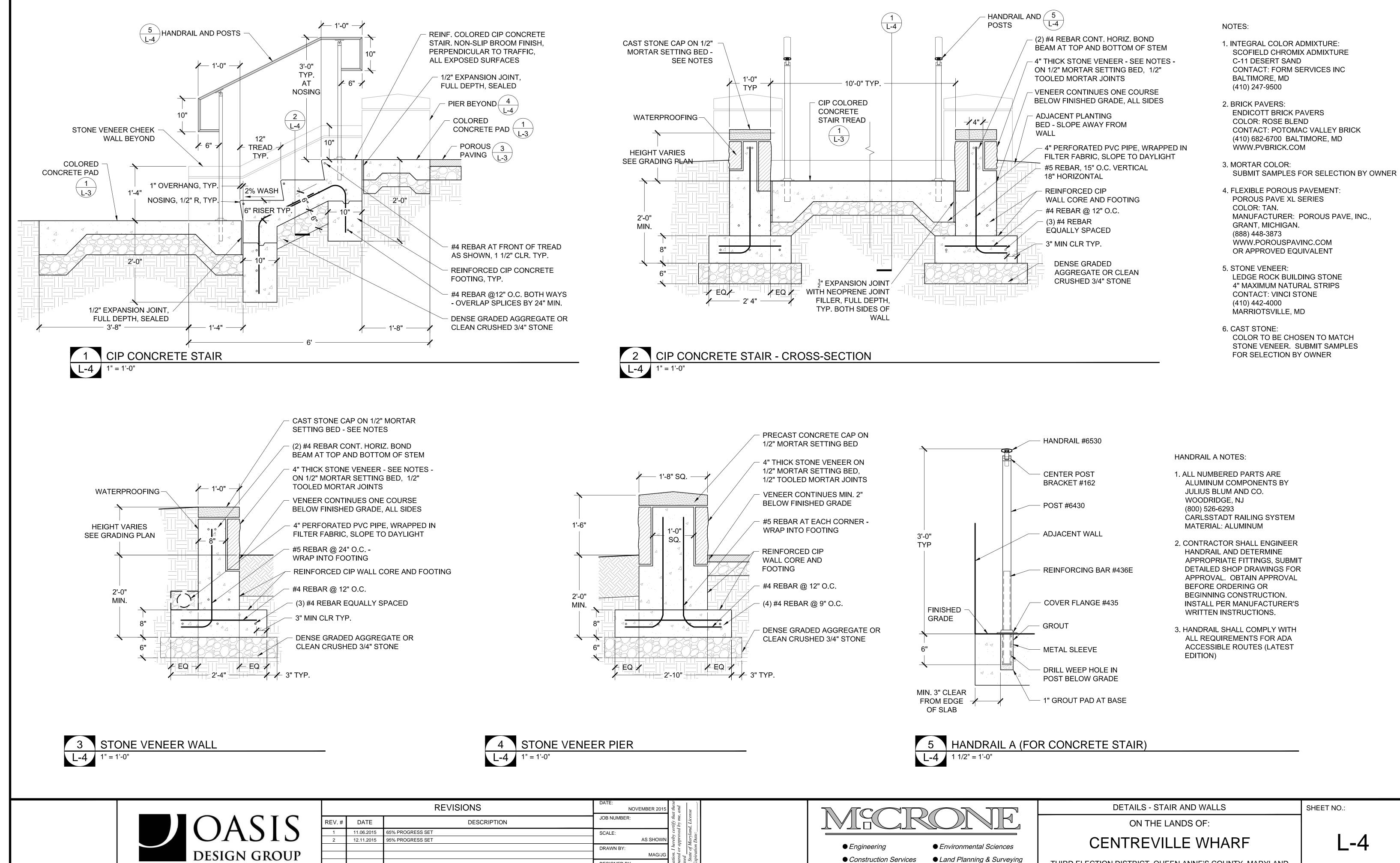




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DESIGNED BY:

APPROVED BY:

FOLDER REFERENCE:

SS/MA

SEAL

DATE 01.20.2015

Construction Services

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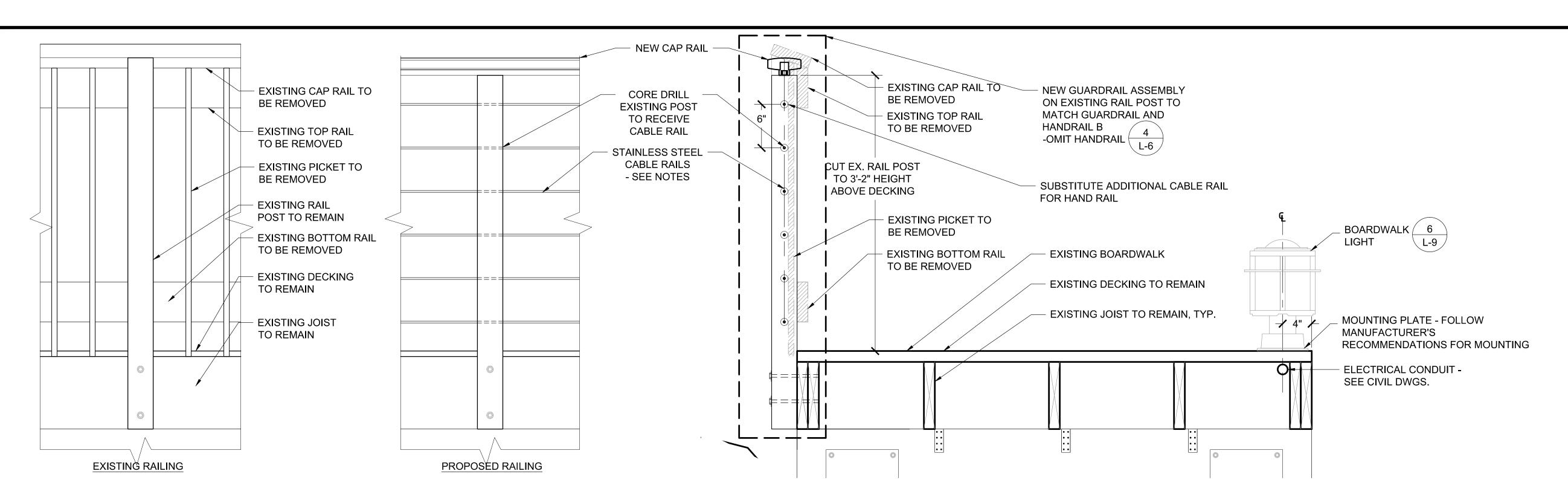
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THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND

TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2

PREPARED FOR: THE TOWN COUNCIL OF CENTREVILLE

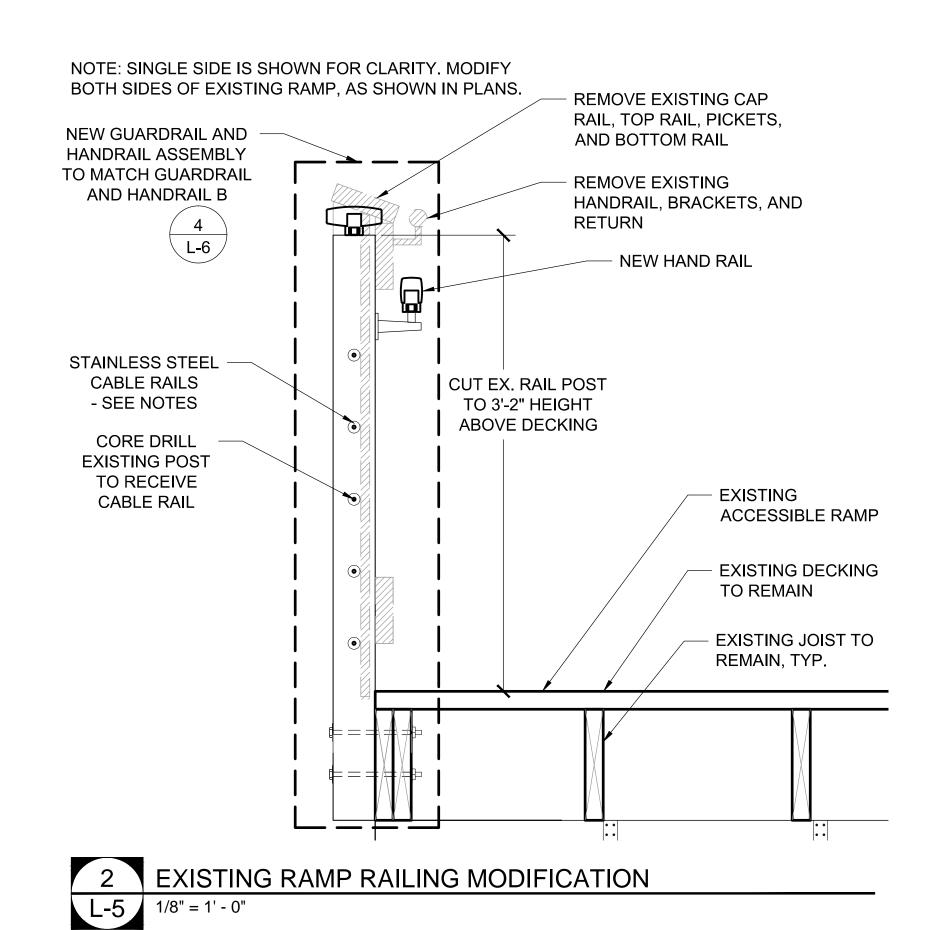
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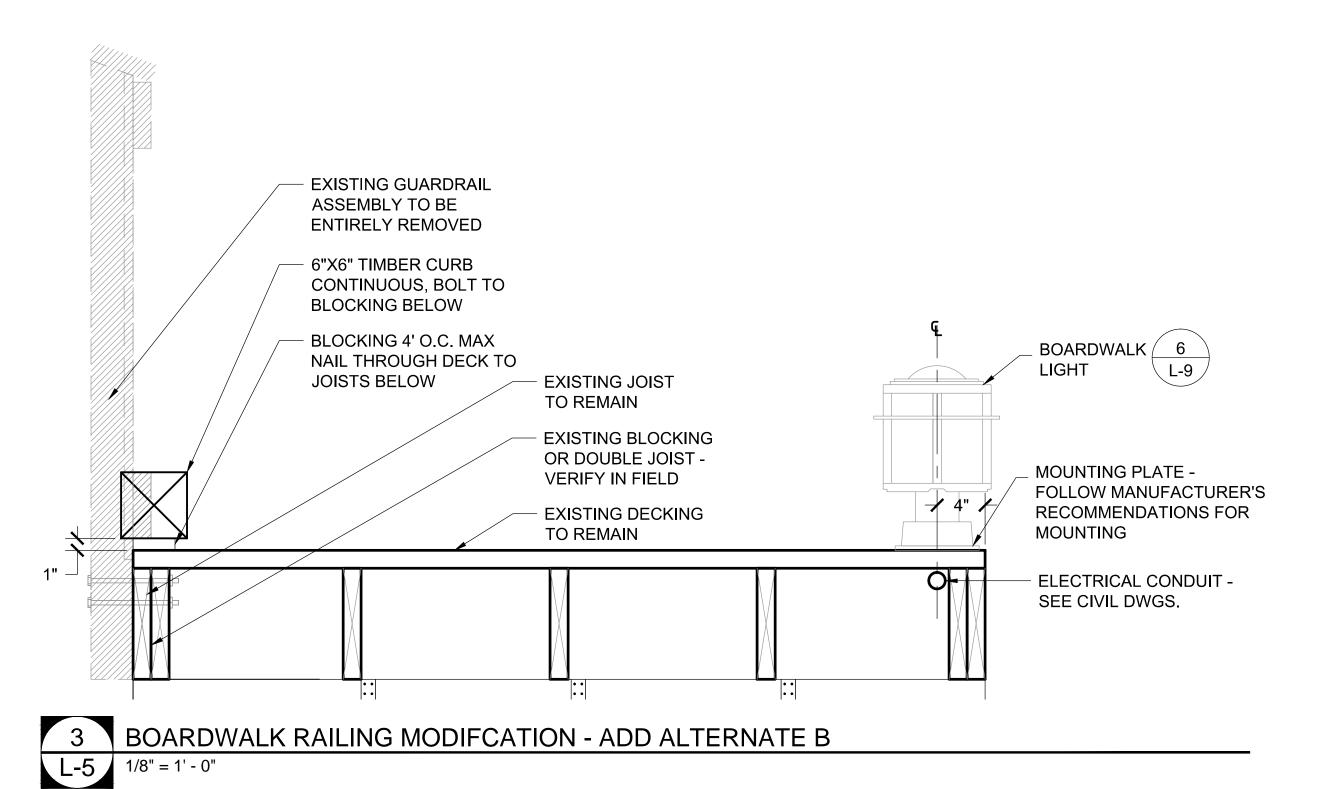
DATE 01.20.2015

1 BOARDWALK RAILING MODIFICATION - ADD ALTERNATE A L-5 1/8" = 1' - 0"



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CABLE RAIL NOTE:

CABLE RAIL CONFIGURATION IS SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR SHALL ENGINEER CABLE RAIL AND DETERMINE APPROPRIATE FITTINGS, ETC. SUBMIT CUT SHEET AND SHOP DRAWINGS FOR CABLE RAIL SYSTEM. OBTAIN OWNER'S APPROVAL BEFORE ORDERING.

### **BOARDWALK NOTES:**

- 1. ALL BOARDWALK SUBSTRUCTURE HARDWARE AND CONNECTIONS SHOUL DBE OF GALVANIZED MATERIALS.
- 2. ALL DECK FASTENERS SHALL BE 316 STAINLESS STEEL SCREWS
- 3. ALL SUBSTRUCTURE WOOD AND TIMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE

			REVISIONS	DATE: NOVEMBER 201	ut these and and see
$\bigcirc$ $\land$ CIC	REV.#	DATE	DESCRIPTION	JOB NUMBER:	tify the by me, by Licer
	1	11.06.2015	65% PROGRESS SET	SCALE:	y cer
	2	12.11.2015	95% PROGRESS SET	AS SHOW	zereb ppro
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DESIGN GROUP				MAG/J	ttion ared sed State
				DESIGNED BY:	ertifica e prepa v licens of the .
LANDSCAPE ARCHITECTURE . MASTER PLANNING . URBAN DESIGN				APPROVED BY:	nal C s wer a duly laws



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DETAILS - EXISTING BOARDWALK ON THE LANDS OF:

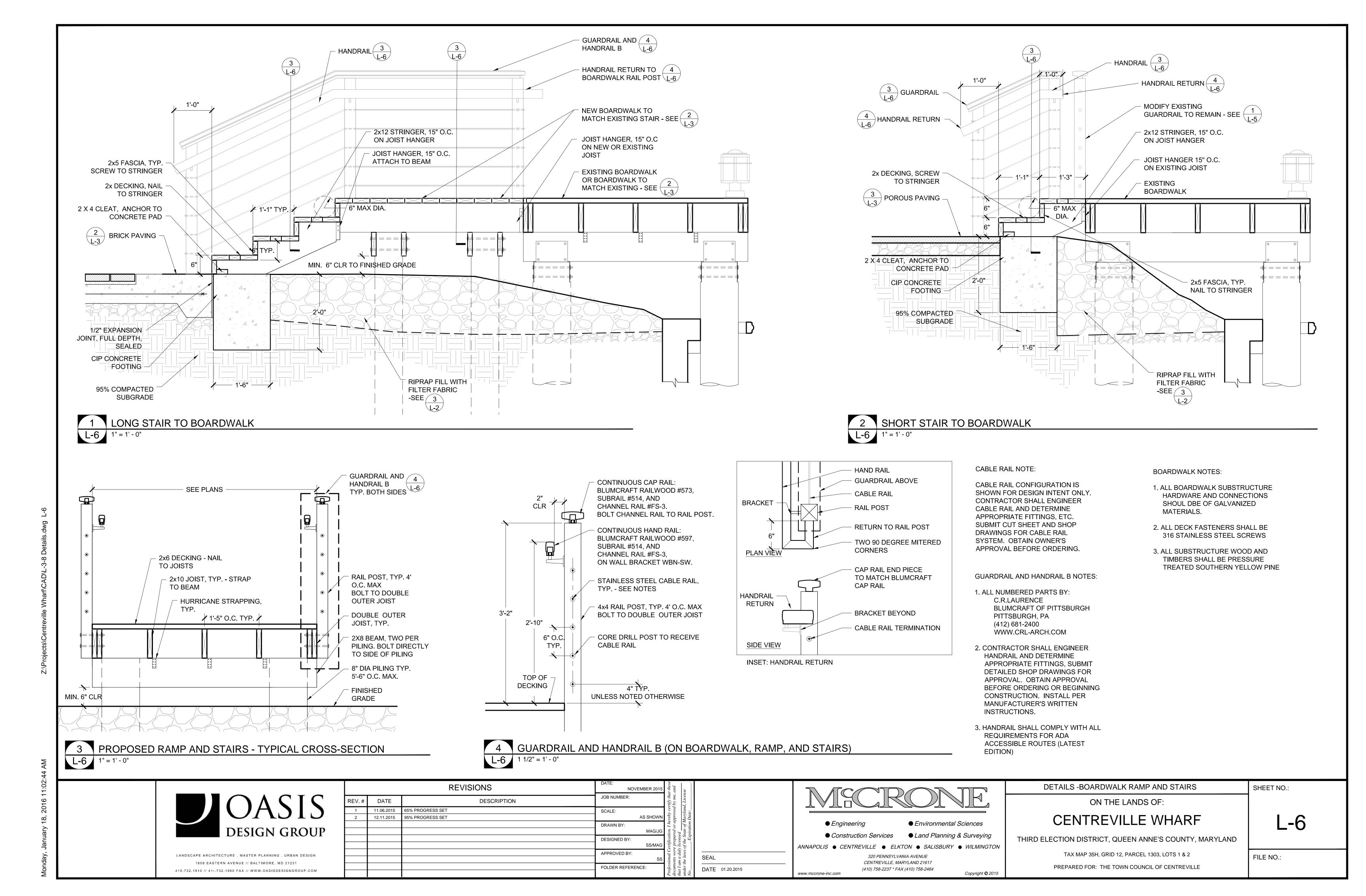
CENTREVILLE WHARF

THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND

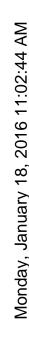
TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2 PREPARED FOR: THE TOWN COUNCIL OF CENTREVILLE L-5

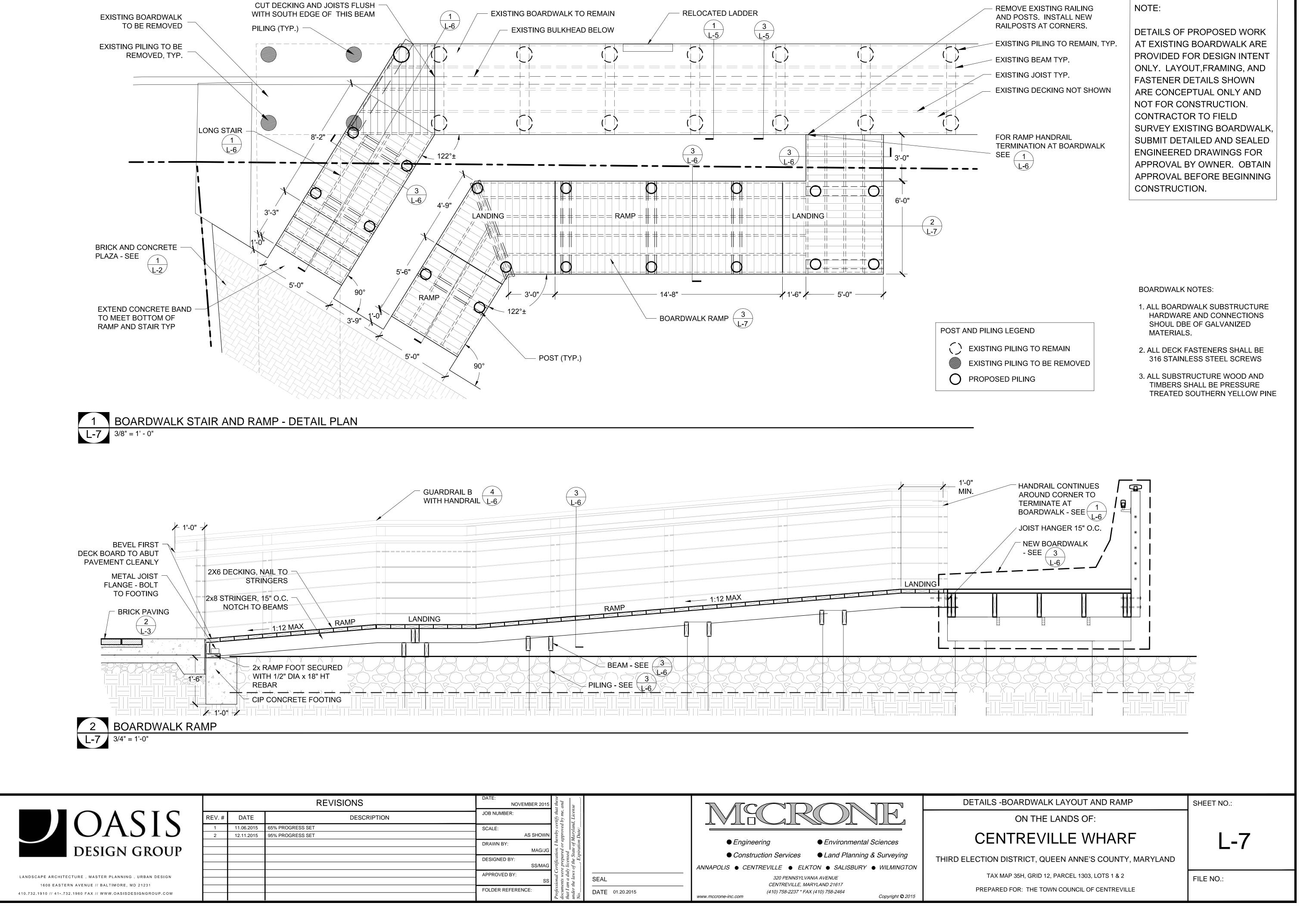
FILE NO.:

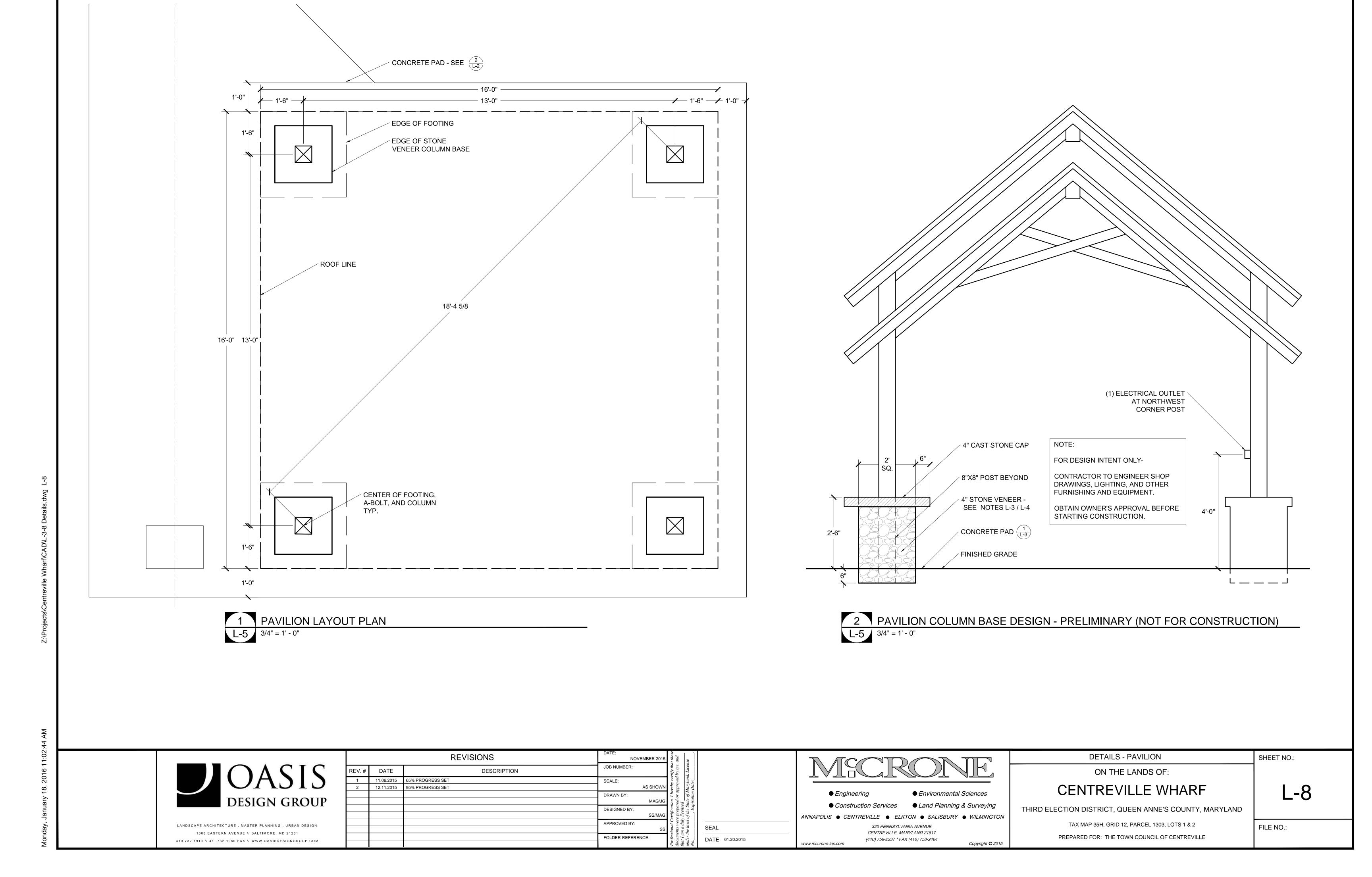
SHEET NO.:











PICNIC TABLE: QTY: (6) TABLES MANUFACTURER: VICTOR STANLEY CONTACT: VICTOR STANLEY P.O. DRAWER 330 DUNKIRK, MD 20754 USA 301-855-8300 MODEL: PT-2 8' (6' WITH 2 **EXTENSIONS**) **COLOR: TITANIUM** MOUNT: SURFACE MOUNT





PATHWAY LIGHT: QTY: (21) LIGHTS MANUFACTURER: LUMEC CONTACT: WARREN SPARKES AMBIANCE LIGHTING 5303 CHRYSLER WAY SUITE 101 UPPER MARLBORO, MD 888-777-5117 MODEL: CANDELA SERIES CANDB1-H15 FINISH: NP (Natural Aluminum) MOUNT: IN-GROUND PROVIDE OPTION DR: 120v POWER RECEPTACLE



5 PATHWAY BOLLARD LIGHT L-9 NOT TO SCALE

PAVILION: QTY: (3) PAVILIONS MANUFACTURER: CLASSIC RECREATION SYSTEMS CONTACT: BRIAN LEWIS CUNNINGHAM REC. P.O. BOX 487 QUEENSTOWN, MD 21658 800-233-0529 MODEL: ASPEN 16' X 16'

SEE SHEET L-8 FOR INSTALLATION







CHARCOAL GRILL: QTY: (3) GRILLS MANUFACTURER: ULINE CONTACT: ULINE NYC/PHILA 400 BOULDER DRIVE BREINIGSVILLE, PA 18031 1-800-295-5510 MODEL: H-4419 MOUNT: IN-GROUND





**BOARDWALK LIGHT:** QTY: (15) LIGHTS MANUFACTURER: LUMEC **CONTACT: WARREN SPARKES** AMBIANCE LIGHTING 5303 CHRYSLER WAY SUITE 101 UPPER MARLBORO, MD 888-777-5117 MODEL: CANDELA SERIES CANDB1-H15 HEIGHT: 15"

FINISH: NP (Natural Aluminum) MOUNT: MOUNTING PLATE PROVIDE OPTION DR: 120v POWER RECEPTACLE



6 BOARDWALK LIGHT

**TBD** 



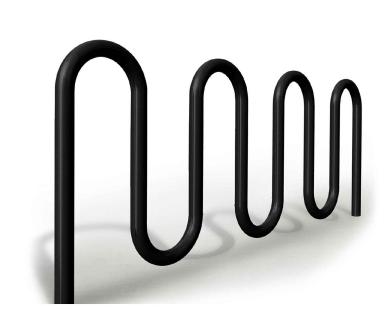
BENCH: QTY: (8) BENCHES MANUFACTURER: VICTOR STANLEY CONTACT: VICTOR STANLEY P.O. DRAWER 330 DUNKIRK, MD 20754 USA 301-855-8300 **MODEL: RB-28 TO MATCH EXISTING** VICTOR STANLEY BENCH ONSITE - CONTRACTOR TO VERIFY EXISTING BENCH MODEL / CONFIGURATION COLOR: TITANIUM MOUNT: GROUND MOUNT INTO

CONCRETE SUB BASE





3 BENCH L-9 NOT TO SCALE





MANUFACTURER: VICTOR STANLEY

DUNKIRK, MD 20754 USA

**CONTACT: VICTOR STANLEY** 

301-855-8300

MODEL: BRCS 107

COLOR: TITANIUM

MOUNT: IN-GROUND

P.O. DRAWER 330

BIKE RACK:

QTY: (1) RACK

STEELSITES TRASH RECEPTACLE: QTY: (4) RECEPTACLES MANUFACTURER: VICTOR STANLEY CONTACT: VICTOR STANLEY P.O. DRAWER 330 DUNKIRK, MD 20754 USA 301-855-8300 MODEL: A-36 COLOR: TITANIUM

MOUNT: IN-GROUND

10 TRASH RECEPTACLES L-9 NOT TO SCALE



QTY: (3) LIGHTS MANUFACTURER: LUMEC CONTACT: WARREN SPARKES AMBIANCE LIGHTING 5303 CHRYSLER WAY SUITE 101 UPPER MARLBORO, MD 888-777-5117 MODEL: CANDELA SERIES CAND1 CN1-1A AM6 HEIGHT: 15' FINISH: NP (Natural Aluminum) MOUNT: IN-GROUND PROVIDE OPTIONS: DR: 120v POWER RECEPTACLE BA: BANNER ARM HS: HOUSE SHIELD

POLE LIGHT:

WWW. Thirty was a second of the second of th

**CURVED BENCH:** 

MODEL: FRB-2 6'

**COLOR: TITANIUM** 

MOUNT: IN-GROUND

ARMRESTS: NONE

QTY: (2) BENCHES

MANUFACTURER: VICTOR STANLEY

DUNKIRK, MD 20754 USA

4 CURVED BENCH

CONTACT: VICTOR STANLEY

P.O. DRAWER 330

L-9 NOT TO SCALE

301-855-8300

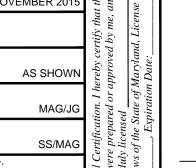




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SITE FURNISHINGS

## CENTREVILLE WHARF

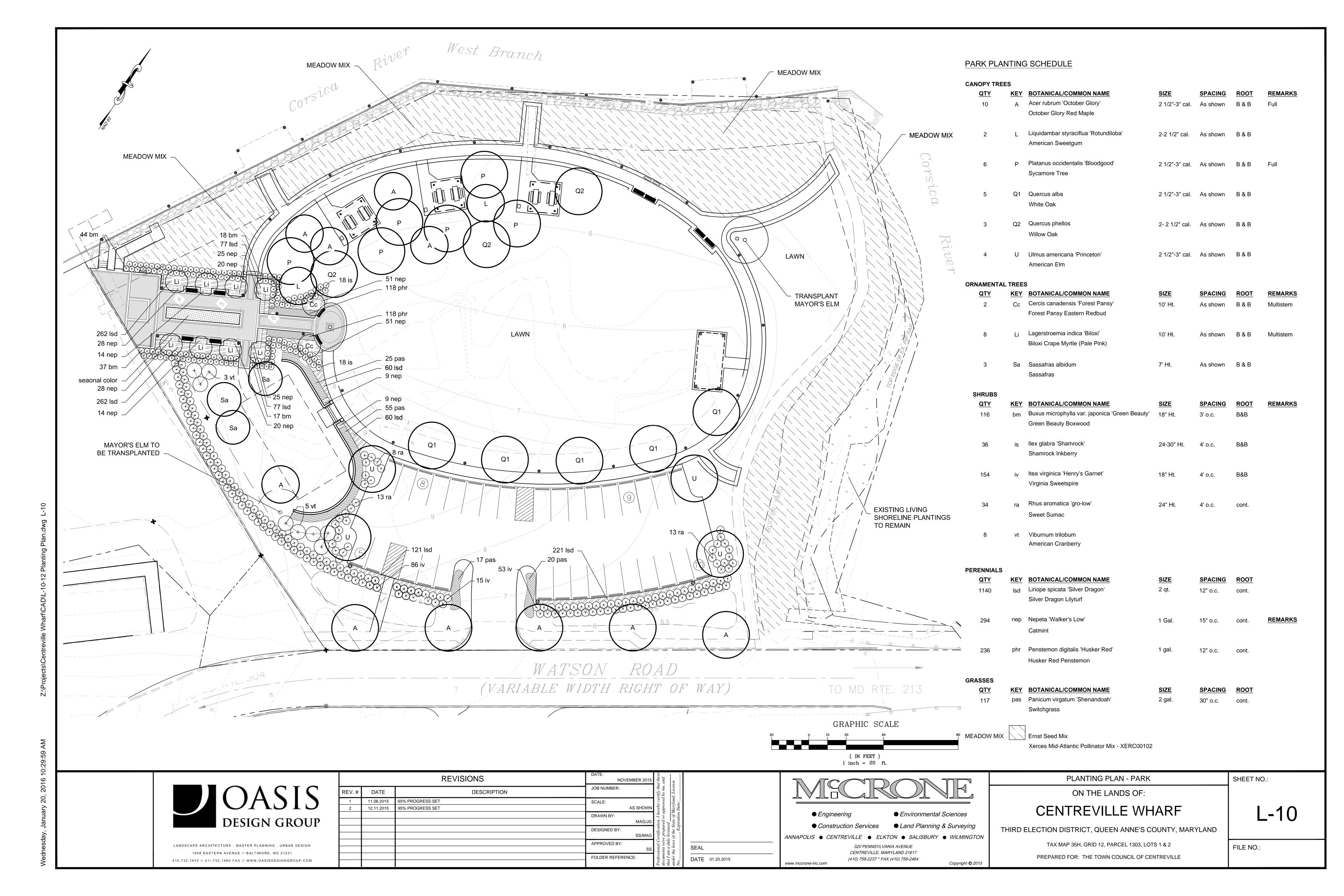
THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2

PREPARED FOR: THE TOWN COUNCIL OF CENTREVILLE

FILE NO.:

SHEET NO.:

L-9



TOPSOIL NOTES

#### PART 1: GENERAL

#### 1.1 DESCRIPTION

A. Topsoil shall consist of furnishing and placing topsoil for lawn, shrub beds, planters, and tree pits. Topsoil shall be a rich, friable material conforming with the requirements of these specifications.

B. Topsoil shall be placed at a depth of 12 inches in all unpaved areas and feathered to the final grade lines. Topsoil shall be placed in conformity with the requirements of these specifications.

C. On site material is not suitable for use as topsoil. All topsoil must be obtained from a pre-approved off-site location. Topsoil shall be placed so that the grade shown on the plans is the final grade of soil at 85% compaction.

#### 1.2 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to work of this section.

#### 1.3 RELATED SECTIONS

A. Planting Notes and Specifications

#### PART 2: PRODUCTS

#### 2.1 DESCRIPTION

- A. Topsoil shall be friable loam topsoil of uniform quality, free from gravel, stones, and other materials retained on a 50 mm (2") sieve. Topsoil shall have no heavy clay, frozen clods, lumps, plants, roots, sticks, asphalt, concrete, or foreign materials harmful to plant growth.
- B. Topsoil shall be reasonably free of noxious perennial weeds or wood vegetations and completely void of Johnsongrass (Sorghum halapense) as determined through prior inspection by an authorized representative of the Department.

#### 2.2 TESTING

- A. At least 30 days prior to ordering materials, the Contractor shall submit to the Engineer or the Engineer's representative certified tests and records for materials specified herein including topsoil source/s. No materials shall be ordered until the required test results and records have been reviewed and approved by the Engineer or the Engineer's representative. Delivered materials shall match the approved samples. Approval shall not constitute final acceptance. The Engineer reserves the right to reject, on or after delivery, any material that does not meet these specifications.
- B. Three soil samples shall be taken from each stock of topsoil to be used. Soil samples shall be submitted to a public agricultural extension service agency or other testing facility capable of all testing required under these specifications (See below Section 2.2. B) and approved by the Engineer. The testing laboratory for physical analysis shall have a minimum of five years experience with the test protocols of the USGA. Test results shall be sent directly from the testing facility to the 2.4 SUBMITTALS
- C. The method of testing topsoil shall be in accordance with the requirements of AASHTO T 88, Modified; AASHTO T 89, Method B;

AASHTO T 90, AASHTO T 267 and shall meet the following specified requirements:

1. 010	ading / trialysis.			
Sieve D	esignation		Minimum Mass (Weight)	
Standar	rd Alternate		Percent Passing	
inc	hes		-	
2	2 ln.		100	
0.2	No. 4		90	
0.08	No. 10		80	
		Minimum	Maximum	
		Percent	Percent	
Passing and reta	0.08 in. (No. 10) ained			
on 0.00	3 in. (No. 200)			
sieve				
	Sand:	30	40	
Passing	0.003 in.			
(No. 200	0) sieve			
	Silt:	40	60	
		_		

Clay:

Chemical Analysis:

Grading Analysis:

a. Organic matter shall consist of approved organic material and shall make up not less than 3% nor more than 8% of topsoil.

20

- b. pH between 5.5 and 6.0. Soluble salt less than 0.9 millimho/cm
- Cation Exchange Capacity (CEC) 15 or greater
- Carbon/Nitrogen Ratio less than 33:1.
- Magnesium Mg 125 265 lbs/acre Phosphorus - P2O5 103 - 205 lbs/acre
- Potassium K2O 161 - 320 lbs/acre Calcium - Ca 861 - 1720 lbs/acre Soluble salts Not to exceed 900 ppm
- The following elements shall not exceed the indicated amount: 3 lbs/acre 50 lbs/acre Manganese 450 lbs/acre Potassium
- Sodium 20 lbs/acre g. Toxic elements and compounds shall be below a maximum level as recommended by the approved soil testing facility for the
- plants being grown. h. Pore space, 35 - 50 percent.

#### 2.3 APPROVED PRODUCTS

A. The area or areas from which topsoil is secured shall possess such uniformity of material depth, color, texture, drainage, and other characteristics as to offer assurance that when removed in commercial quantities, the product will be homogeneous in nature and will conform to the requirements of these specifications.

A. Submit a soil test from a soil testing laboratory as noted under 2.2 of these specifications.

DATE 01.20.2015

- B. Submit the source locations of all topsoil to be used.
- C. Submit a list of all chemicals and herbicides applied to the topsoil for
- the last five years and a list of any plants grown in the topsoil. C. The Contractor shall not transport topsoil to the site without the proper testing, certifications, and acceptance by the Engineer. Topsoil transported to the site without prior approval shall not be accepted for placement and be disposed of by the contractor at their expense. All testing and certifications shall be the sole responsibility of the contractor.

#### PART 3: EXECUTION

A. Placing. Before placing or depositing topsoil upon any section as shown on the plans, the foundation upon which the topsoil is to be placed shall be approved.

- B. Rip all sub-soil areas to receive topsoil to a depth of 6-8" prior to topsoil
- C. Topsoil shall be installed in six inch lifts. Each lift shall be compacted to 85 percent. The final elevation of the topsoil shall be based on an 85 percent compaction rate and shall correspond to elevations shown on the plans.
- D. Maintaining the Topsoil. The contractor shall maintain the topsoil at his/her own expense until final completion and acceptance of the contract. Maintenance shall consist of preserving, protecting, replacing, and such other work as may be necessary to keep the topsoil in a satisfactory condition which shall be defined as not allowing erosion or compaction to take place.
- E. Final Cleaning. Upon the completion of this section, final cleaning shall be done within the limits of the project, and shall consist of completely cleaning the project of excess material, sweeping pavements and structures of dirt and rubbish, and the removal of any unused material which will mar the appearance of the contract or repairing any areas as determined by the Engineer as not meeting the specifications.

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ON THE LANDS OF:

## CENTREVILLE WHARF

THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND

TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2

PREPARED FOR: THE TOWN COUNCIL OF CENTREVILLE

SHEET NO.:

FILE NO.:





1. STAKE TREES UP TO

12' HT WITH (2) TWO 2"

SQUARE STAKES PER

2. GUY TREES 12' TO 20'

**GUYING STAKES PER** 

3. GUY TREES 20' HT

AND OVER WITH (3)

GROUND ANCHORS OR

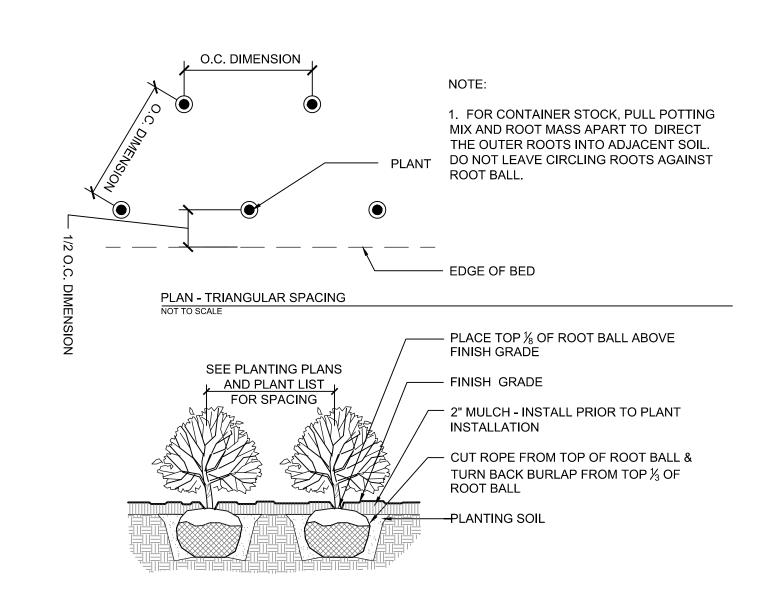
9" TYP

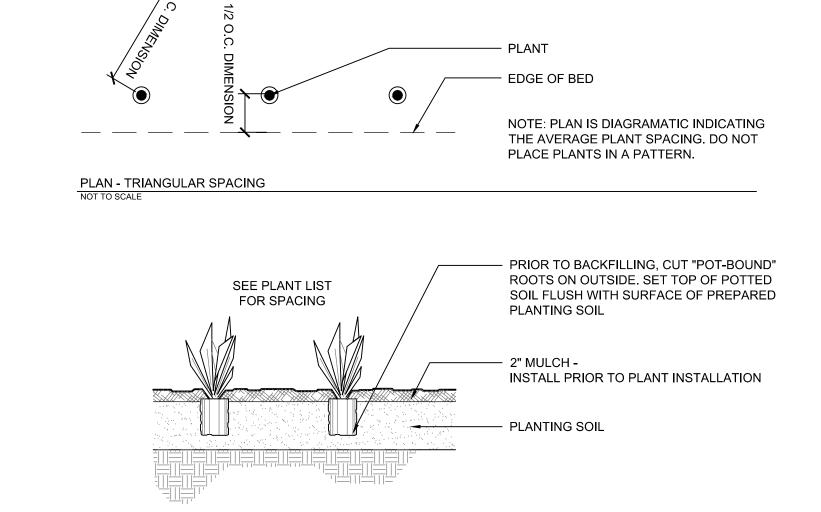
4 VEVERGREEN PLANTING DETAIL

DEADMEN PER TREE.

HT WITH (3) THREE

TREE PLANTING DETAIL







HARDWOOD STAKE

GUYING SYSTEM: (2) HARDWOOD STAKES PER

TREE; 2 STRANDS GALVANIZED WIRE TWISTED

CUT ROPE AND TURN TOP 1/3 OF BURLAP AWAY

FROM ROOT BALL. FOR TREE WITH WIRE

PLANTING MOUND TO INHIBIT SETTLING

DO NOT CUT LEADER

2 STRANS GALV WIRE, TWISTED

2" SQUARE HARDWOOD STAKES,

MIN 8' LONG; EXTEND STAKES TO

CUT AND REMOVE BURLAP FROM

\_\_SET 1/ 8 OF ROOTBALL ABOVE

OTHERWISE REQUIRED BY

FINISH GRADE UNLESS

SOIL CONDITIONS

TOPSOIL MIX, SEE SPECS

SCARIFY SUBSOIL TO 6"

MIN DEPTH

UNDISTURBED SOIL

UNTIL TAUT, SEE SPECS

FIRM BEARING AS NEEDED

TOP 1/3 OF ROOT BALL

— 2" - 3" HT SAUCER AROUND

\_\_\_\_ 2" - 3" MULCH

— FINISHED GRADE

**RUBBER HOSES** 

UNDISTURBED SUBGRADE

BASKET, CUT BASKET IN FOUR PLACES AND

FOLD DOWN 12" INTO HOLE. REMOVE DEBRIS AND EXCESS SOIL FROM TOP OF BARE ROOT

FOR SUPPORT; 1/2" HOSE LOOPS AT TRUNK

PLACE 1/8 OF ROOT BALL ABOVE

BERM SOIL TO DRAIN AWAY FROM TREE

ADJACENT FINISHED GRADE

FLAGGING TAPE

PLANTING SOIL

· 2" MULCH

FINISH GRADE

**ROOT BALL** 

**GALVANIZED STEEL WIRE** 

## 2 SHRUB PLANTING DETAIL

# 3 PERENNIAL PLANTING DETAIL

O.C. DIMENSION

#### **PLANTING NOTES**

PLANT IDENTIFICATION - ALL PLANTS SHALL BE PROPERLY MARKED FOR IDENTIFICATION AND CHECKING.

LIST OF PLANT MATERIAL - THE QUANTITIES GIVEN IN THE PLANT LIST ARE APPROXIMATE ONLY. THE CONTRACTOR WILL VERIFY PLANT QUANTITIES PRIOR TO BIDDING AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL FURNISH, AND PLANT, ALL PLANTS REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS. SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF OASIS DESIGN GROUP AND THE OWNER. THIS CONTRACT WILL BE BASED ON THE BIDDER HAVING VERIFIED PRIOR TO BIDDING THE AVAILABILITY OF THE REQUIRED PLANT MATERIALS AS SPECIFIED ON THE PLANT MATERIALS LIST.

PLANT QUALITY - ALL SHRUBS SHALL BE DENSE, HEAVY TO THE GROUND, AND WELL GROWN, SHOWING EVIDENCE OF HAVING BEEN PRUNED REGULARLY, AND SHALL BE VIGOROUS, HEALTHY AND OF GOOD COLOR. ALL PLANTS SHALL BE SOUND, FREE OF PLANT DISEASE, INFESTATION, OR INSECT EGGS AND SHALL HAVE A HEALTHY, NORMAL ROOT SYSTEM. PLANTS SHALL BE FRESHLY DUG AND NOT HEELED-IN STOCK, NOR STOCK FROM COLD STORAGE. ALL PLANTS SHALL BE NURSERY GROWN. PLANTS SHALL NOT BE PRUNED PRIOR TO DELIVERY. THE SHAPE OF THE PLANT SHALL, IN GENERAL, CONFORM TO ITS NATURAL GROWTH PROPORTIONS UNLESS OTHERWISE SPECIFIED. ALL PLANTS, INCLUDING CONTAINER GROWN, SHALL CONFORM TO THE BRANCHING, CALIPER AND HEIGHT SPECIFICATIONS OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S PUBLICATION ENTITLED AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, AND SHALL HAVE A WELL-SHAPED, HEAVY-BRANCHED STRUCTURE FOR THE SPECIES. EVERGREEN TREES ARE TO HAVE AN INTERNODE NO GREATER THAN 24" AND SHALL BE UNIFORMLY WELL-SHAPED. PLANTS OF A GIVEN SIZE SHALL NOT MEASURE LESS THAN THE MINIMUM SIZE AS SET FORTH IN THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION.

PLANT SPACING - PLANT SPACING IS TO SCALE ON PLAN.

**SOIL MIX** - SOIL MIX WILL BE 2/3 EXISTING TOPSOIL, 1/3 LEAFMOLD THOROUGHLY MIXED AND HOMOGENIZED. OTHER ORGANIC MATERIAL MAY BE SUBSTITUTED UPON WRITTEN APPROVAL BY ODG.

**ROOTBALL SIZE** - THE BALL SIZE SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN'S PUBLICATION ENTITLED AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, AND SHALL BE WRAPPED IN UNTREATED BURLAP.

**EXCAVATION** - HOLES FOR ALL TREES SHALL BE 2 TIMES THE SIZE OF ROOT BALL OR CONTAINER AND SHALL HAVE VERTICAL SIDES. HOLES FOR SHRUBS SHALL BE 12" WIDER THAN THE ROOT BALL. BEDS FOR MASS PLANTING SHALL BE ENTIRELY ROTOTILLED TO A DEPTH OF 8" AND SHALL BE 18" BEYOND THE AVERAGE OUTSIDE EDGE OF PLANT BALLS. ORGANIC MATERIAL (LEAFMOLD) WILL BE INCORPORATED INTO PLANT BEDS BY TILLING AGAIN TO A DEPTH OF 8". PROPORTIONS OF SOIL TO ORGANIC MATERIAL WILL BE TWO PARTS EXISTING SOIL TO ONE PART ORGANIC MATERIAL.

**PLANTING - BACKFILLING SHALL BE DONE WITH SOIL MIX PREVIOUSLY** DESCRIBED, REASONABLY FREE OF STONES, SUBSOIL, CLAY, LUMPS, STUMPS, ROOTS, WEEDS, BERMUDA GRASS, LITTER, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH OR HINDER GRADING, PLANTING, OR MAINTENANCE OPERATIONS. SHOULD ANY

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UNFORESEEN OR UNSUITABLE PLANTING CONDITIONS ARISE, SUCH AS FAULTY SOIL DRAINAGE, CHEMICAL RESIDUES OR INCONSISTENCIES BETWEEN PLANS AND ACTUAL SITE CONDITIONS, THEY SHOULD BE CALLED TO THE ATTENTION OF ODG AND THE OWNER FOR ADJUSTMENT BEFORE PLANTING. PLANTS SHALL BE SET PLUMB AND STRAIGHT AND TREES SHALL BE GUYED OR STAKED, WHERE REQUIRED, AT THE TIME OF PLANTING. BACKFILL SHALL BE WELL WORKED ABOUT THE ROOTS AND SEATED BY WATERING. PLANTS WILL BE PLANTED HIGHER THAN SURROUNDING GRADE SHRUBS AND TREES WILL BE SET AT A DEPTH TO PLACE 1/8TH OF THE ROOTBALL ABOVE FINISH GRADE. REMOVE ROPE FROM ROUND TREE TRUNKS AND LAY BACK BURLAP AND WIRE BASKETS FROM TOP 1/3 OF ALL B&B MATERIAL. NYLON, PLASTIC, OR VINYL ROPE AND/OR BURLAP WILL BE COMPLETELY REMOVED FROM ALL PLANT MATERIAL PRIOR TO PLANTING.

**CULTIVATION** - ALL TRENCHES AND SHRUB BEDS SHALL BE CULTIVATED, EDGED AND MULCHED TO A DEPTH OF 2" MINIMUM AND 3" MAXIMUM WITH WELL-AGED, FINE-SHREDDED HARDWOOD BARK. THE AREA AROUND ISOLATED PLANTS SHALL BE MULCHED TO AT LEAST A 6" GREATER DIAMETER THAN THAT OF THE HOLE.

FERTILIZER & INOCULATION - ALL FERTILIZER SHALL BE GRANULAR, WITH 35 TO 80 PERCENT OF THE TOTAL NITROGEN IN A SLOWLY AVAILABLE FORM. FOR TREES, SHRUBS, AND GROUNDCOVER; FERTILIZER SHALL BE A COMPLETE FERTILIZER WITH A MINIMUM ANALYSIS OF 10 PERCENT NITROGEN, 6 PERCENT PHOSPHORUS AND 4 PERCENT POTASSIUM. FOR PERENNIALS, ANNUALS, AND BULBS: FERTILIZER SHALL BE A TIME-RELEASED, HIGH-PHOSPHATE FERTILIZER; I.E., OSMACOTE. FOR BULBS, FERTILIZER SHALL BE BONE MEAL (COMMERCIAL, RAW AND FINELY-GROUND), WITH AN ANALYSIS OF 4 PERCENT NITROGEN AND 20 PERCENT PHOSPHORIC ACID.

FERTILIZER SHALL BE ADDED DEPENDING ON THE SIZE OF THE PLANT AND THE MANUFACTURER'S RECOMMENDATION USING THE FOLLOWING **APPLICATION RATES:** 

- 1. TREES: USE 2 LB. OF 10-6-4 FERTILIZER PER INCH OF TRUNK DIAMETER. 2. SHRUBS: USE 1/4 LB. OF 10-6-4 FERTILIZER PER FOOT OF HEIGHT OR SPREAD PER PLANT, OR 3-5 LBS OF 10-6-4 FERTILIZER PER 100 SQUARE FEET OF BED AREA.
- OF BED AREA.

3. GROUNDCOVER: USE 3 LBS. OF 10-6-4 FERTILIZER PER 100 SQUARE FEET

- 4. PERENNIALS, ANNUALS, BULBS: USE 3 LBS, OF TIME-RELEASE, HIGH-PHOSPHATE FERTILIZER (5-10-5) PER 100 SQUARE FEET OF BED
- 5. PLANTING PITS SHALL BE BACKFILLED WITH A MIXTURE CONTAINING 80% EXISTING TOPSOIL, 20% ORGANIC MATERIAL SUCH AS LEAF MOLD, PEAT MOSS OR COMPOSED SEWAGE SLUDGE. INCORPORATE ENDO- AND ECTOMYCORRIHIZAL FUNGI TRANSPLANT AMENDMENT PER MANUFACTURER'S RECOMMENDATIONS (MANUFACTURER: HORTICULTURAL ALLIANCE, INC. PHONE 1-800-628-6373).

**GROUND COVER BED PREPARATION - ALL AREAS OF GROUNDCOVER SHALL** BE ROTOTILLED TO A DEPTH OF 6". APPLY 2" OF ORGANIC MATERIAL (LEAFMOLD) AND ROTOTILL UNTIL THOROUGHLY MIXED. APPLY FERTILIZER AS STATED ABOVE.

PERENNIAL FLOWER BED PREPARATION - A SOIL TEST SHALL BE TAKEN FOR PH ANALYSIS AND THE SOIL AMENDED WITH GROUND LIMESTONE FOR ACIDIC SOIL AND GARDEN SULFUR OR FERROUS SULFATE FOR ALKALINE SOIL AT RATES RECOMMENDED BY THE SOIL TEST. THE FINAL PH SHOULD BE BETWEEN 6.5 AND 7.0. SOIL SHALL BE SPADED TO A DEPTH OF 12". SPREAD 4" OF COMPLETELY DECAYED ORGANIC MATERIAL (LEAFMOLD, WELL-ROTTED MANURE AT LEAST ONE YEAR OLD, OR COMPOST) OVER THE SOIL. USE NITROGEN-FORTIFIED ORGANIC MATERIAL OR SPREAD TWO POUNDS OF AMMONIUM SULFATE PER 100 SQUARE FEET. OVER THIS LAYER SPREAD A THIN LAYER OF FERTILIZER PER THE SCHEDULE UNLESS THE SOIL TEST INDICATES OTHERWISE. ROTOTIL FERTILIZER AND ORGANIC MATTER, MIXING THEM THOROUGHLY INTO THE SOIL. USE A TILLER THAT WILL CULTIVATE TO A MINIMUM DEPTH OF 8" AND DO NOT MAKE MORE THAN TWO PASSES. THE ENTIRE BED MAY BE CULTIVATED WITH A SPADE IF PREFERRED. WHEN FINISHED. RAKE SURFACE WITH A STEEL-TOOTH RAKE UNTIL SMOOTH. MOISTEN THE BED, LET THE WATER SOAK IN, AND RAKE IT

ANNUAL FLOWER BED PREPARATION - A SOIL TEST SHALL BE TAKEN FOR PH ANALYSIS AND THE SOIL AMENDED WITH GROUND LIMESTONE FOR ACIDIC SOIL AND GARDEN SULFUR OR FERROUS SULFATE TO ALKALINE SOIL AT RATES RECOMMENDED BY THE SOIL TEST. THE FINAL PH SHOULD BE BETWEEN 6.5 AND 6.8. SOIL SHALL BE SPADED TO A DEPTH OF APPROXIMATELY 12". SPREAD 2"-3" OF ORGANIC MATERIAL OVER SOIL ORGANIC MATERIAL MAY BE COARSE MOIST PEAT MOSS, WELL-ROTTED MANURE OR COMPOST. OVER THIS LAYER OF ORGANIC MATERIAL, SPREAD A THIN LAYER OF FERTILIZER PER THE SCHEDULE ABOVE. ROTOTIL FERTILIZER AND ORGANIC MATERIAL TO A DEPTH OF 6", MIXING THEM THOROUGHLY INTO THE SOIL AND CONTINUE TO BREAK-UP LUMPS; THEN RAKE SURFACE WITH STEEL-TOOTH RAKE UNTIL SMOOTH. MOISTEN THE BED, LET THE WATER SOAK IN AND RAKE IT AGAIN. SPACE PLANTS AS INDICATED ON DRAWING.

**GUARANTEE AND REPLACEMENT** - ALL PLANT MATERIAL SHALL BE UNCONDITIONALLY GUARANTEED FOR ONE YEAR. THE GUARANTEE WILL BEGIN ON THE DATE OF FINAL ACCEPTANCE OF THE WORK. AFTER A PLANT HAS BEEN DETERMINED TO BE DEAD, DYING OR DAMAGED FROM HANDLING OR INSTALLATION, IT WILL BE REPLACED DURING THE NEXT GROWING SEASON. FOR EXAMPLE, IF A PLANT IS FOUND DEAD DURING THE SUMMER MONTHS, IT WILL BE REPLACED DURING THE FALL PLANTING SEASON. THE GUARANTEE WILL END FOR ALL PLANT MATERIAL ONE YEAR AFTER ACCEPTANCE. DURING THE GUARANTEE PERIOD, THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR MECHANICAL INJURY OR VANDALISM CAUSED BY OTHER PARTIES.

MATERIAL INSPECTION - OWNER AND/OR ODG SHALL, AT THEIR DISCRETION, INSPECT PLANT MATERIAL BEFORE AND DURING DELIVERY AND INSTALLATION. PLANT MATERIAL WILL BE PROPERLY DELIVERED IN COVERED TRUCKS, AND PROMPTLY UNCOVERED WHEN DELIVERED TO PREVENT DAMAGE. MATERIAL WILL BE UNLOADED AND PROPERLY HANDLED IN SUCH A WAY AS NOT TO DAMAGE PLANTS. PLANTS WILL BE INSPECTED AND MAY BE REJECTED UPON DELIVERY AND/OR INSTALLATION BY THE OWNER FOR MECHANICAL DAMAGE, AND DAMAGE THAT WILL SUBSEQUENTLY CAUSE MISSHAPEN OR DEFORMED MATERIAL. OWNER WILL HAVE AUTHORITY TO OBSERVE SITE PREPARATION AND PLANTING INSTALLATIONS, AND HAVE THE RIGHT TO REJECT ANY WORK IF THE SPECIFICATIONS AND CONSTRUCTION DOCUMENTS ARE NOT FOLLOWED. ALL PLANT MATERIAL SHALL BE OF THE QUALITY SPECIFIED AND INSTALLED AS DESCRIBED ABOVE, AND UNLESS THESE MINIMUM STANDARDS ARE SATISFIED, THE PLANTS WILL BE REJECTED.

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Environmental Sciences Engineering

Land Planning & Surveying Construction Services

ANNAPOLIS ● CENTREVILLE ● ELKTON ● SALISBURY ● WILMINGTON 320 PENNSYLVANIA AVENUE

CENTREVILLE, MARYLAND 21617 (410) 758-2237 \* FAX (410) 758-2464 www.mccrone-inc.com

PLANTING DETAILS AND SPECIFICATIONS

ON THE LANDS OF:

## CENTREVILLE WHARF

THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND

TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2

FILE NO.:

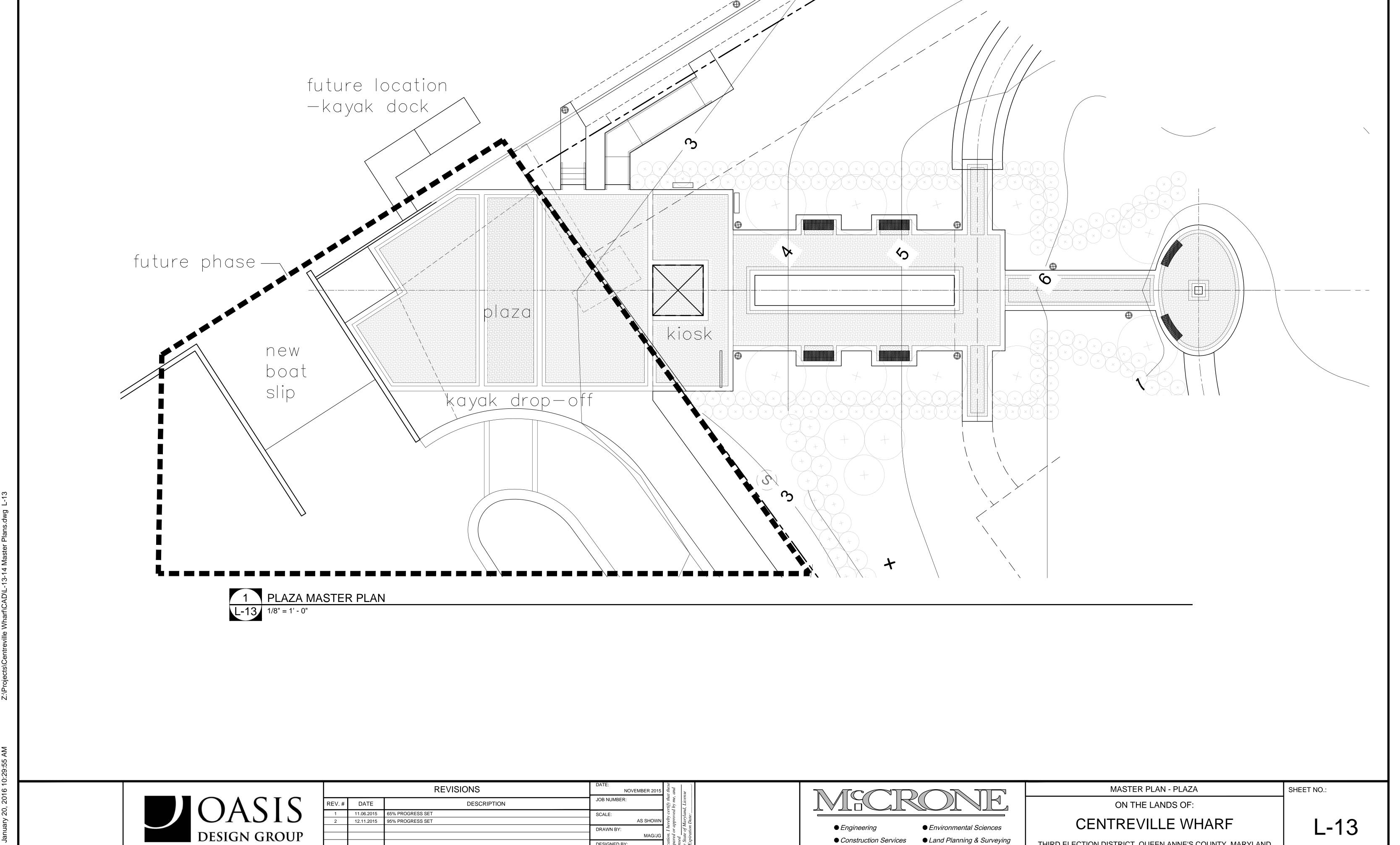
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LANDSCAPE ARCHITECTURE . MASTER PLANNING . URBAN DESIGN

1608 EASTERN AVENUE // BALTIMORE, MD 21231

410.732.1910 // 41-.732.1960 FAX // WWW.OASISDESIGNGROUP.COM



DESIGNED BY:

APPROVED BY:

FOLDER REFERENCE:

DATE 01.20.2015

THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND

TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2

PREPARED FOR: THE TOWN COUNCIL OF CENTREVILLE

FILE NO.:

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• Engineering • Environmental Sciences

MASTER PLAN - WHARF ENVIRONS
ON THE LANDS OF:

## CENTREVILLE WHARF

THIRD ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND

TAX MAP 35H, GRID 12, PARCEL 1303, LOTS 1 & 2
PREPARED FOR: THE TOWN COUNCIL OF CENTREVILLE

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