INNOVATION CENTER PARK

COLUMBIA, SOUTH CAROLINA

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H1.00 - COVER SHEET	BID DOC. SET					BID DOC. SET			
C1.00 - EXISTING CONDITIONS PLAN C2.00 - SITE PLAN C3.00 - GRADING PLAN C4.00 - STORM DRAINAGE PLAN C5.00 - EROSION AND SEDIMENT CONTROL PLAN									
D1.01 - DEMOLITION PLAN H1.01 - HARDSCAPE PLAN H2.01 - HARDSCAPE DETAILS H2.02 - HARDSCAPE DETAILS H3.01 - LAYOUT PLAN L1.01 - LANDSCAPE PLAN L2.01 - LANDSCAPE DETAILS IR1.01 - EXTENT OF IRRIGATION									
E0.01 - ELECTRICAL SYMBOLS & LEGENDS E0.02 - ELECTRICAL SITE PLANS									

GENERAL NOTES:

1. WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPENCIES.

2. THE CONTRACTOR BARES ALL RESPONSIBILITY FOR VERIFYING ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, WALKS AND CURBS IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO BEFORE MENTIONED INFASTRUCTURE THAT ARE TO REMAIN SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER. SITE SOLUTION ASSUMES NO RESPONSIBILITY FOR ANY UTILITIES NOT SHOWN ON PLANS.

3. ALL PROPOSED AND FINISHED GRADES ARE BASED ON INFORMATION PROVIDED BY THE OWNERS SURVEY AND/OR CIVIL ENGINEER. ANY DISCREPENCIES IN ACTUAL FIELD MEASUREMENTS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.

4. PRIOR TO COMMENCEMENT OF HARDSCAPE CONSTRUCTION, ALL FOOTINGS AND WALLS ARE TO BE SURVEYED, LAID OUT AND STAKED FOR REVIEW BY OWNER, ARCHITECT AND LANDSCAPE ARCHITECT. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DEMOLITION, ADJUSTMENTS OR RECONSTRUCTION RESULTING FROM UNAUTHORIZED CONSTRUCTION ACTIVITES.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL QUANITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANITIES PROVIDED BY SITE SOLUTIONS ARE FOR CONVENIENCE ONLY. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPENCIES.

6. EASEMENTS, BUILDING SETBACKS, CURB AND GUTTER AND UNDERGROUND UTILITIES HAVE BEEN SUPPLIED TO SITE SOLUTIONS BY THE PROJECT CIVIL ENGINEER. REFER TO CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.

7.CONTRACTOR TO VERIFY THAT A MIN. DEPTH OF 36" OF SPECIFIED TOP SOIL MIX IS PROVIDED FOR ALL PROPOSED PLANTING AREAS ON GRADE UNLESS OTHERWISE NOTED IN DRAWINGS.

8. ALL LANDSCAPE AREAS EITHER ON-STRUCTURE OR WITHIN FIBERGLASS AND CONCRETE PLANTERS TO BE LIGHT WEIGHT SOIL MIX.

9. CONTRACTOR TO PROVIDE AS BUILT CONDUIT LAYOUT TO PROPOSED SITE LIGHTING PRIOR TO APPROVAL. COORDINATE W/ OWNER WHERE TO TIE IN TO ELECTRIC SERVICE.

10. ALL PLANTED POTS TO BE HAND WATERED AND MAINTAINED.

11. SITE FURNITURE (BENCH, UMBRELLAS, ETC.)AND SITE LIGHTING TO BE AN ALTERNATE

12. ALL SURFACES TO BE POWER-WASH CLEANED AT SUBSTANTIAL AND FINAL COMPLETION

LAYOUT NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS, GIVING NOTICES, AND PAYING FEES. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY AND STATE BUILDING CODES AND ORDINANCES RELATING TO THIS CONSTRUCTION PROJECT.

2. IN EVENT OF ANY DISCREPENSIES FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTER DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

3. WHERE PLAN DETAILS DIFFER FROM CITY STANDARDS, THE LATTER SHALL BE SUBSTITUTED IN APPROVED IN WRITING BY LANDSCAPE ARCHITECT.

4. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

5. NO SUBSTITUTIONS OF ANY MATERIALS OR PRODUCTS SHALL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.

6.CONTRACTOR TO LAY OUT ALL PROPOSED WALK, WALLS, FENCING, RAILING, HANDRAILS, LIGHTING, SITE FURNISHINGS, PAVERS, STEPS, LANDSCAPE, TRELLIS, AND IRRIGATION AND RECEIVE OWNER AND LANDSCAPE ARCHITECTS APPROVAL PRIOR TO CONSTRUCTION.

SHOP DRAWINGS & MISC. SUBMITTALS

CONTRACTOR SHALL PREPARE AND PROVIDE SHOP DRAWINGS FOR THE REVIEW BY THE ARCHITECT AND LANDSCAPE ARCHITECT FOR THE FOLLOWING ITEMS:

1. BRICK RETAINING WALL 2. CONCRETE RETAINING WALL 3. LANDSCAPE MATERIAL PHOTOS 4. ADA RAMP 5. STEPPING STONE 6. PAVERS 7. LIGHTING CUT SHEETS

8. LIGHT POSTS 9. HANDRAILS 10. CAST STONE CAPS 11. STEPS AND RAILING

SAMPLES

CONTRACTOR SHALL PROVIDE SAMPLES FOR THE REVIEW BY THE OWNER, ARCHITECTS AND LANDSCAPE ARCHITECT FOR THE FOLLOWING ITEMS:

1. CONCRETE 2. SIDEWALK 3. PAVERS 4. RIVER ROCK 6. CAST STONE CAP

MOCK UPS

CONTRACTOR SHALL PREPARE 4' X 4' min. MOCK UPS FOR THE REVIEW BY THE OWNER, ARCHITECTS AND LANDSCAPE ARCHITECT FOR THE FOLLOWING ITEMS:

1. CONCRETE 2. STEP STONES

3. PAVERS

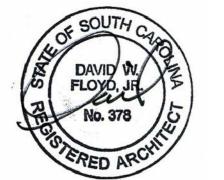
4. BRICK VENEER

DAVID W. FLOYD LANDSCAPE ARCHITECTURE+ LAND PLANNING

300 Northcreek, Bldg. 300 Atlanta, Georgia 30327

LANDSCAPE ARCHITECTURE. ALL RIGHTS NOT BE CONSIDERED A CERTIFIED DOCUMENT

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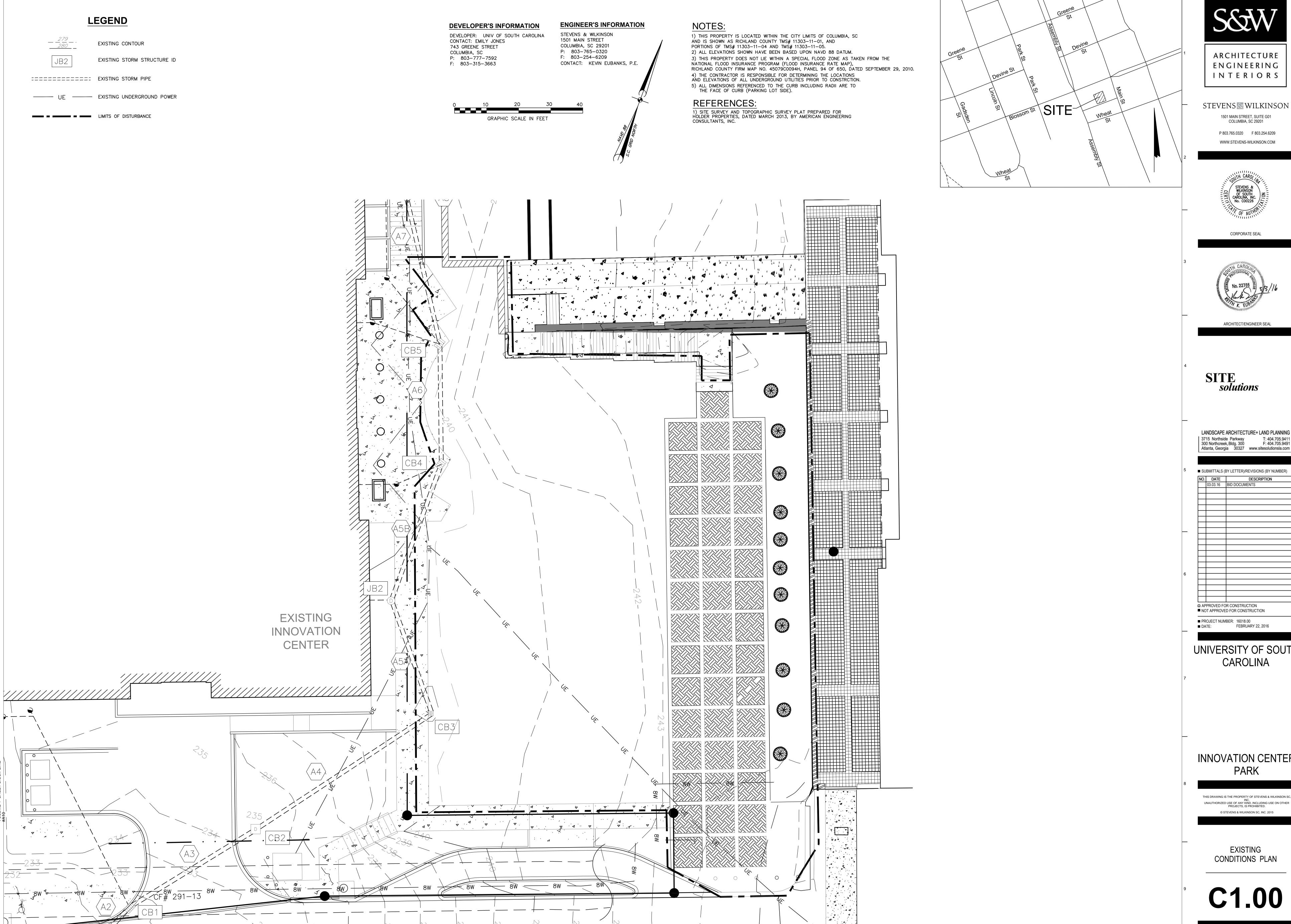
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SHEET STATUS MARK DATE BY RELEASE A 03/03/2016 MDS BID DOCUMENTS

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COVER

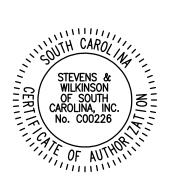
PROJECT NUMBER:



ARCHITECTURE ENGINEERING INTERIORS

STEVENS & WILKINSON 1501 MAIN STREET, SUITE G01 COLUMBIA, SC 29201

> P 803.765.0320 F 803.254.6209 WWW.STEVENS-WILKINSON.COM



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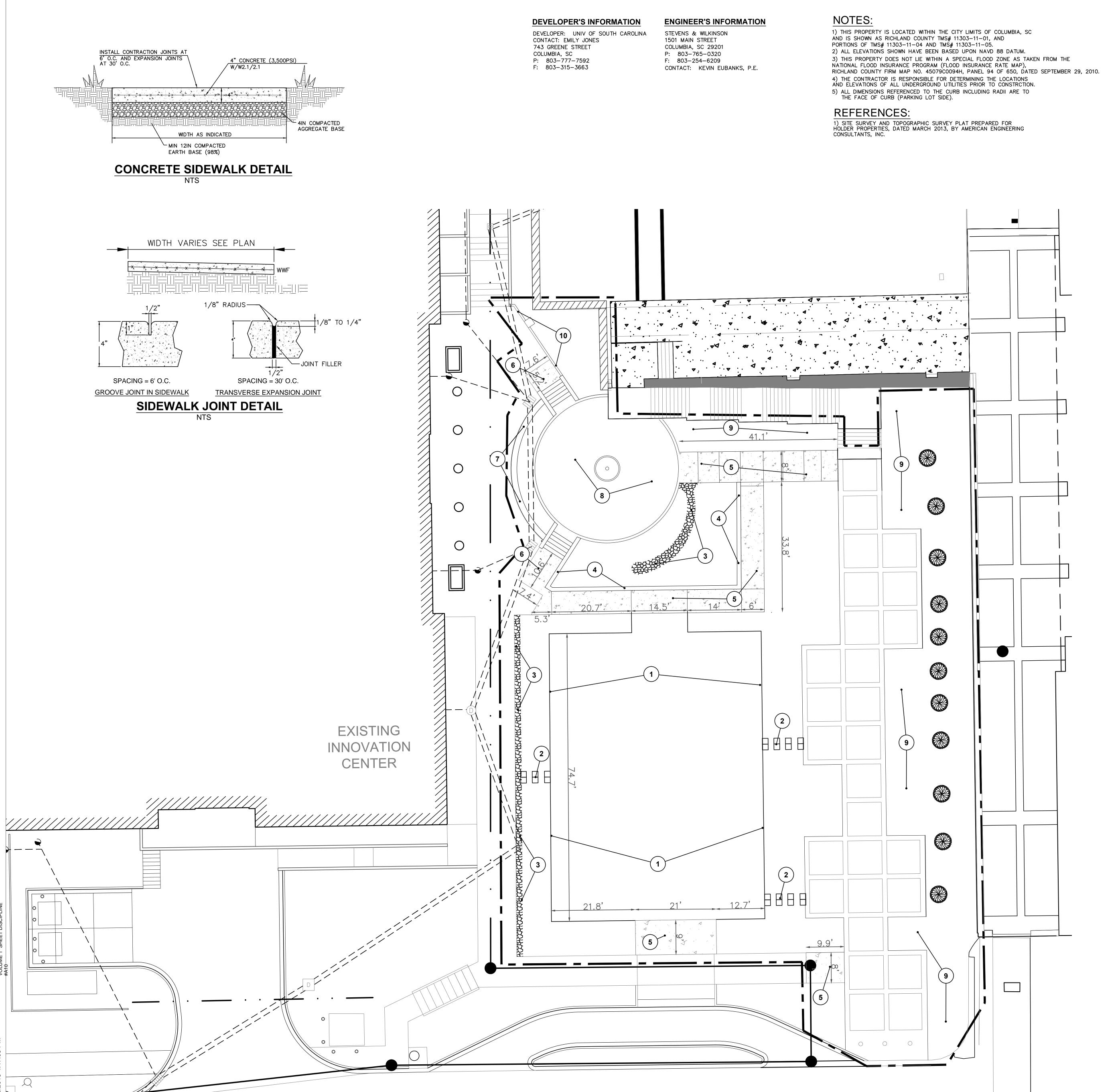
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INNOVATION CENTER PARK

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EXISTING CONDITIONS PLAN

C1.00





PAVEMENT LEGEND

NEW CONCRETE SIDEWALK
(SEE DETAILS FOR COMPOSITION AND THICKNESS)

LEGEND

CODED SITE NOTES

- 1 EVENT LAWN
- 2) STEPPING STONES. SEE HARDSCAPE DETAILS, H2.01.
- (3) 1.5"-3" DIA RIVER ROCK.
- (4) CAST IN PLACE WALL. SEE HARDSCAPE DETAILS, H2.01.
- 5 INSTALL NEW 4" THICK CONCRETE SIDEWALK AS SHOWN (SEE DETAILS) SEE HARDSCAPE PLAN FOR SCORING/JOINT LAYOUT.
- (6) INSTALL NEW CONCRETE TO MATCH EXISTING INCLUDING SCORING/JOINT LAYOUT.
- 7) BRICK SEAT WALL. SEE HARDSCAPE DETAILS, H2.01

GRAPHIC SCALE IN FEET

- (8) PEDESTRIAN PAVERS. SEE HARDSCAPE DETAILS, H2.01
 (9) LANDSCAPED AREA
- 10) NEW 6" CONCRETE CURB AND GUTTER



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■ DATE: FEBRUARY 22, 2016

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CAROLINA

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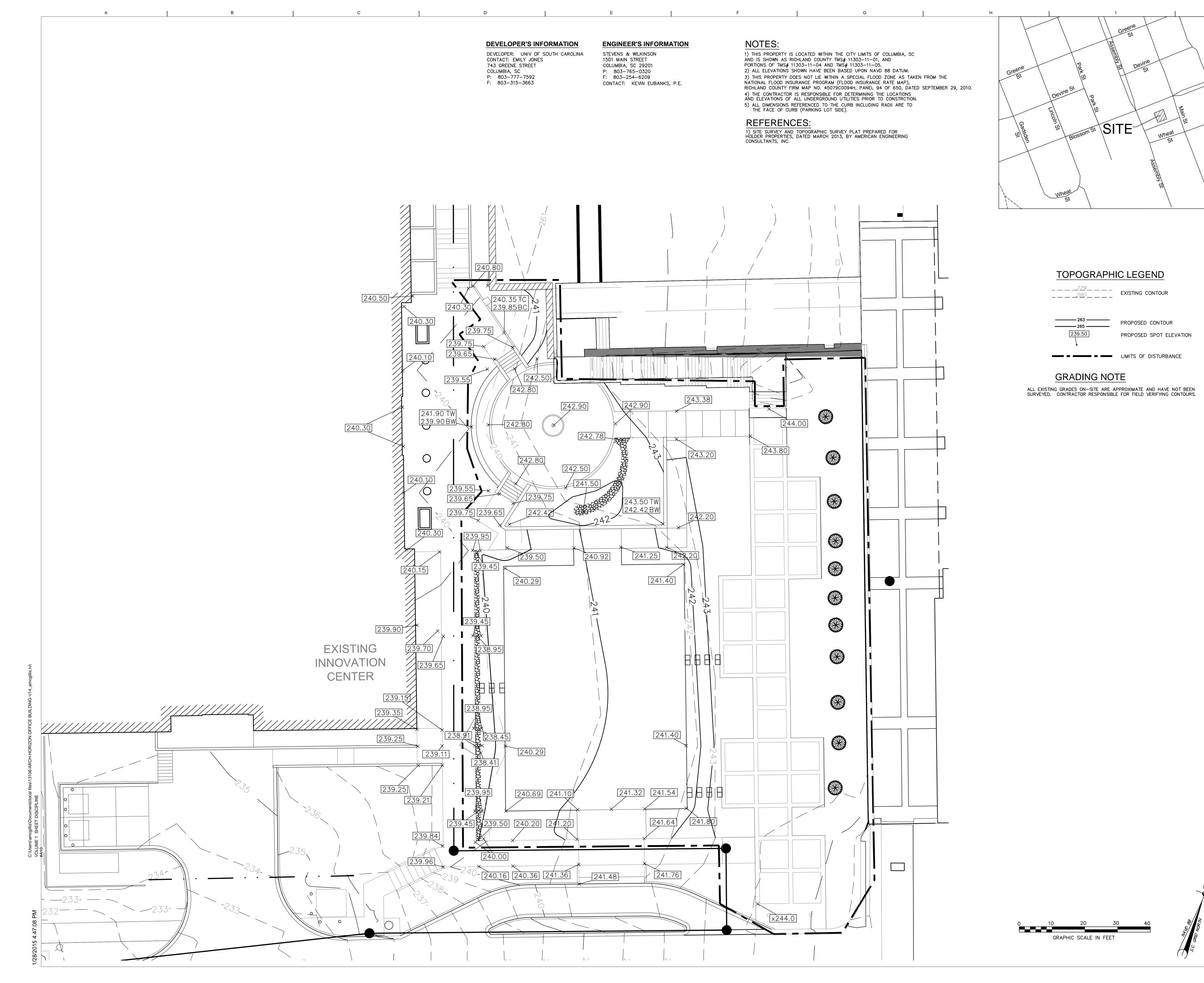
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SITE PLAN

C2.00





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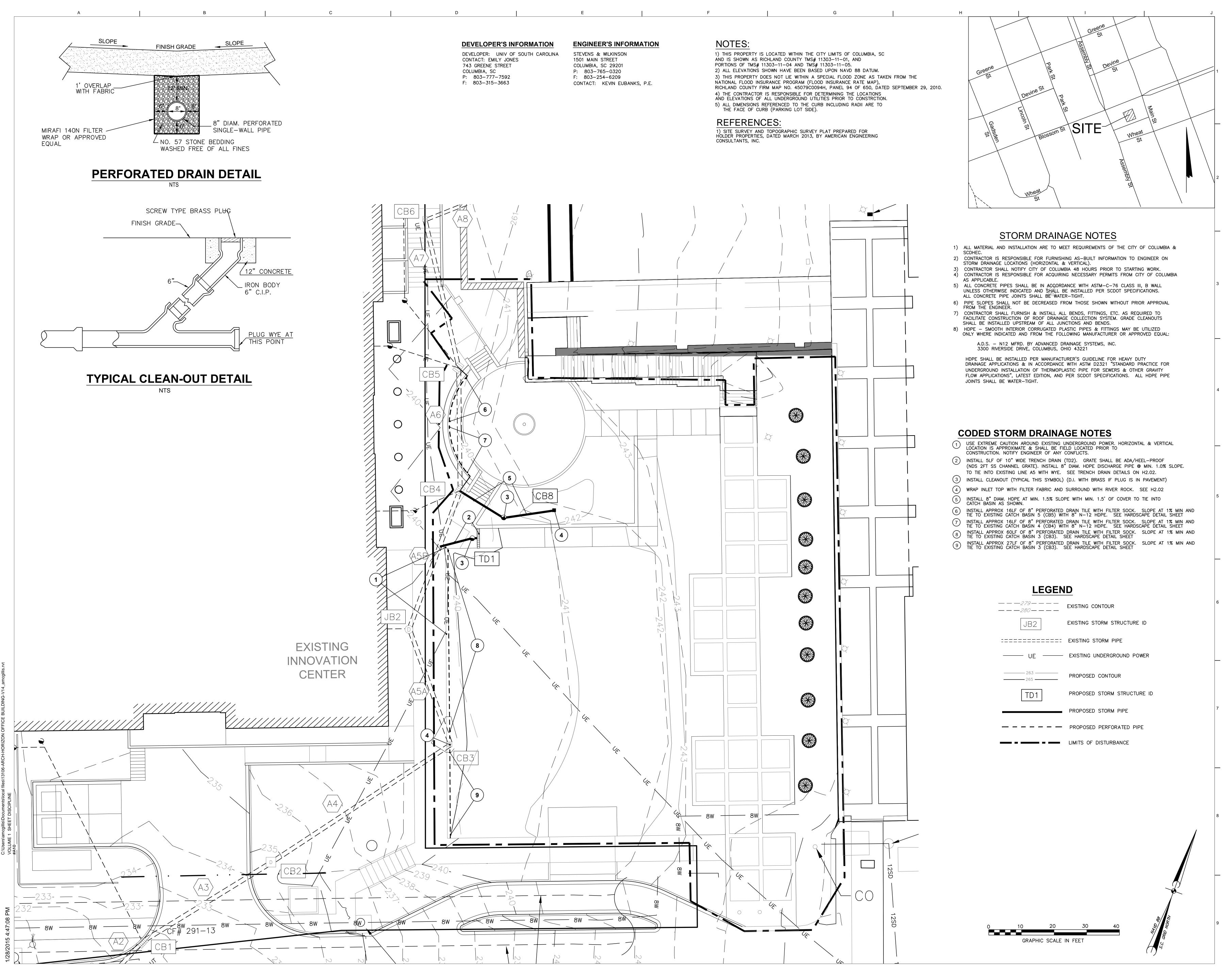
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GRADING PLAN

C3.00



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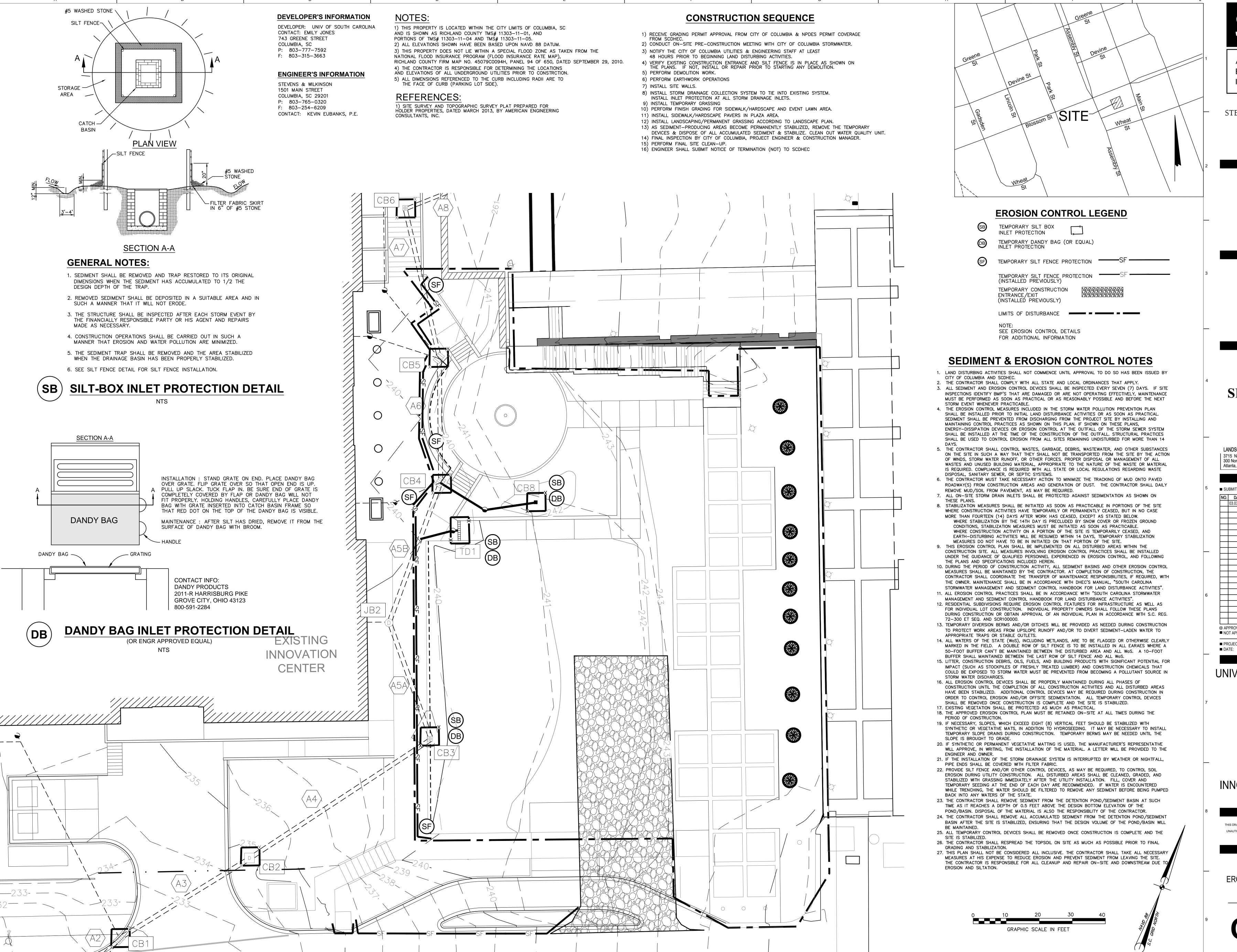
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STORM DRAINAGE PLAN

C4.00





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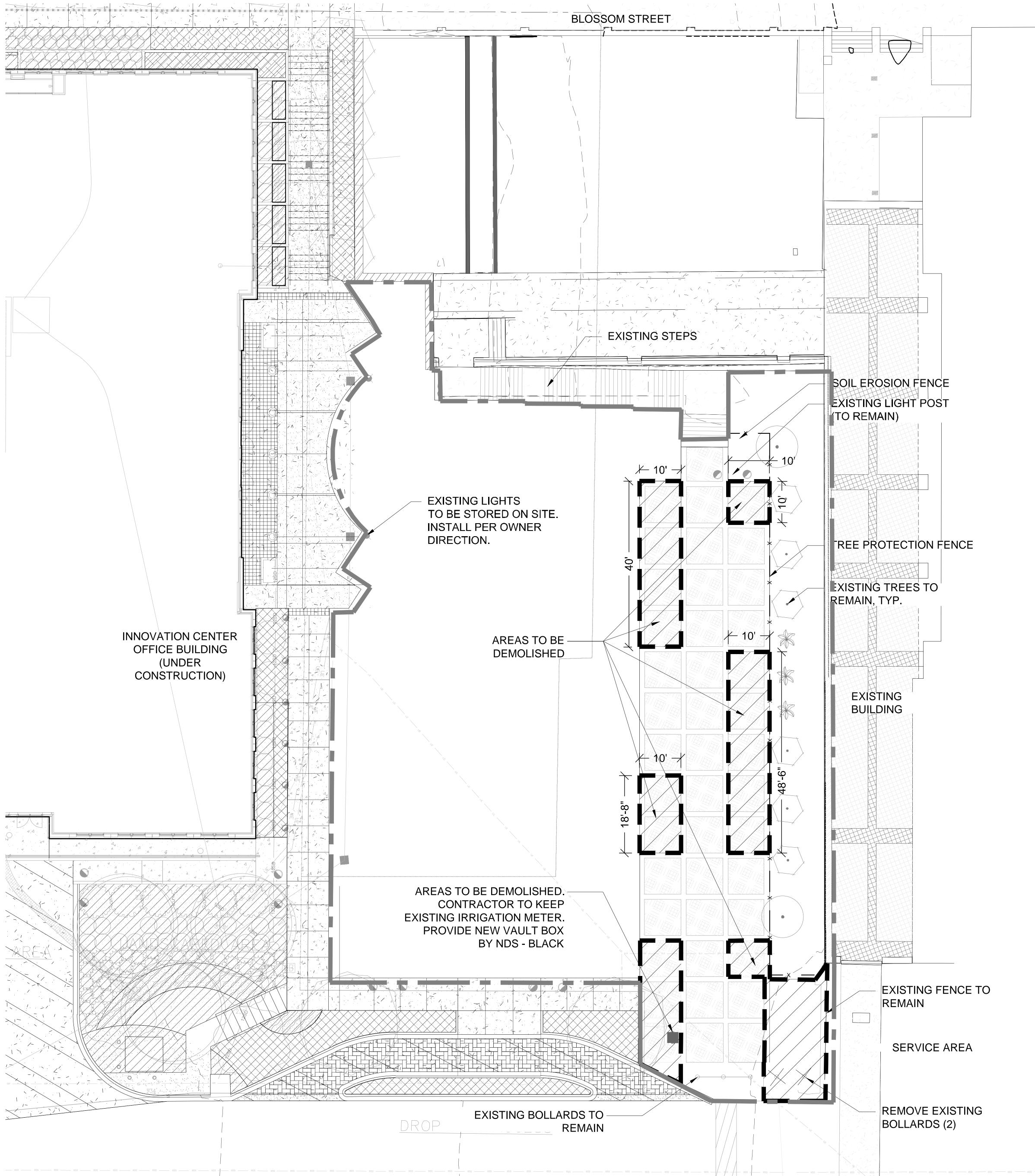
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EROSION AND SEDIMENT CONTROL PLAN

C5.00



DEMOLITION NOTES:

1. SITE SOLUTIONS AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.

2. THE CONTRACTOR SHALL CONFORM TO LOCAL CODES, OBTAIN ALL PERMITS, AND GIVE ALL NOTICES REQUIRED FOR EXECUTION OF THE

3. ALL MATERIALS BEING REMOVED AND NOT RELOCATED UNDER THE NEW CONSTRUCTION INCLUDING TREES AND SHRUBS, UTILITY STRUCTURES, ETC., SHALL BE FIRST OFFERED TO THE OWNERS REPRESENTATIVE AND IF NOT ACCEPTED SHALL THEN BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTORS EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.

5. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNERS REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.

6. IN AREAS WHERE EXISTING PAVEMENT, WALKS, OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE, COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE UNIT OF NEW IMPROVEMENTS ON THE SITE LAYOUT.

7. CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH THE OWNERS REPRESENTATIVE AND LOCAL GOVERNING AGENCY PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE LOCAL GOVERNING AGENCY AND THE UTILITY COMPANIES.

8. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE SUITABLE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

9. SURVEY PROVIDED BY STEVENS WILKERSON APRIL 2014

10 CONTRACTOR TO CLEAN ALL AREA OF DEBRIS EACH DAY.

11. SILT FENCE AND TREE PROTECTION FENCE TO BE INSTALLED PRIOR TO COMENCEMENT OF DEMOLITION OF SITE PER CITY STANDARDS.

DEMOLITION DATA:

HARDSCAPE:

AREA DEMOLISHED (APPROX.): 2,015 S.F

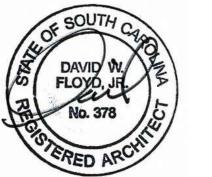
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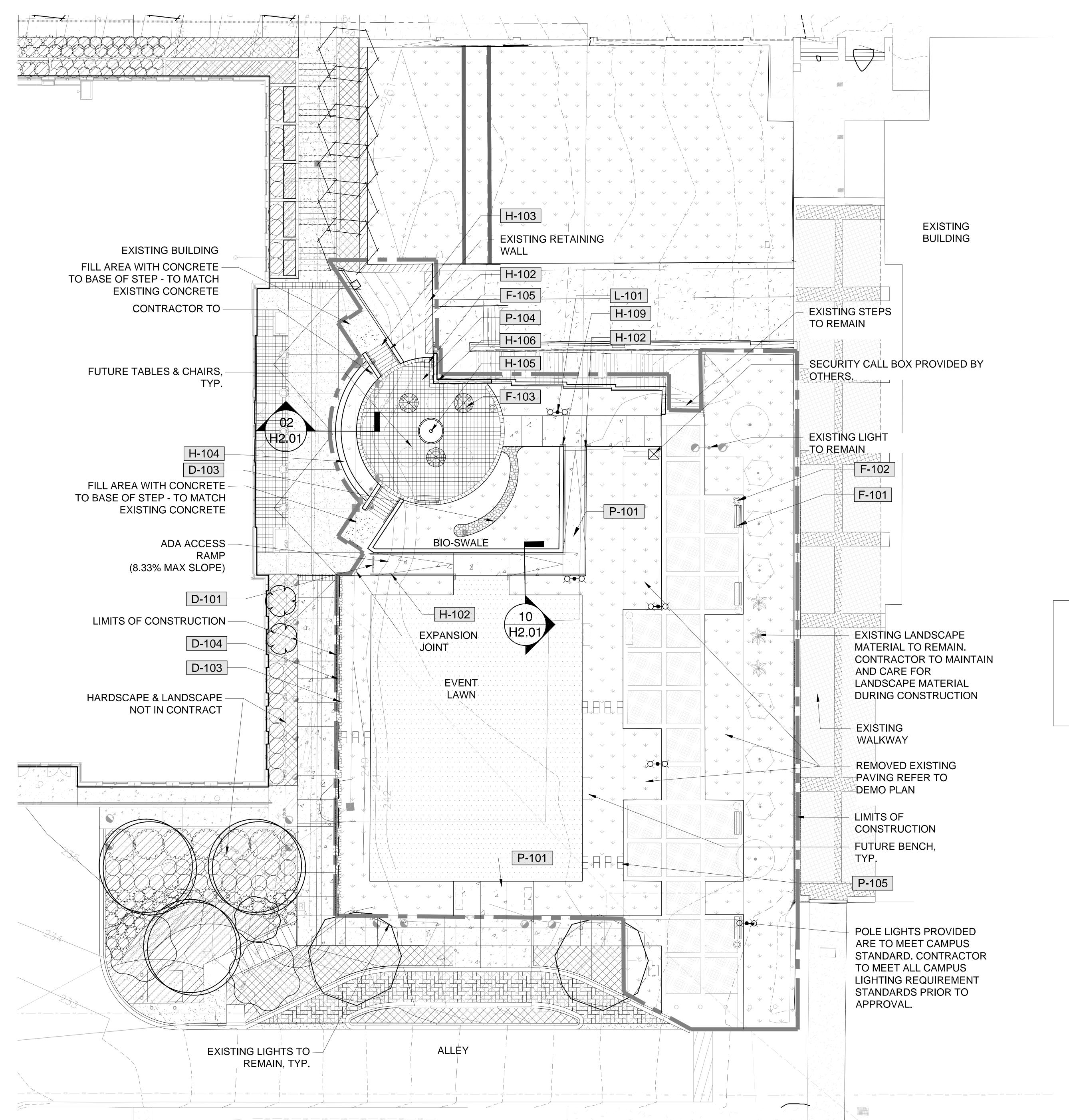
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SHEET STATUS ARK DATE BY RELEASE

DEMOLITION PLAN

14017

DATE: 02.02.2016



REFERENCE NOTES SCHEDULE

SYMBOL	DRAINAGE DESCRIPTION	DETAIL			
D-101	TRENCH DRAIN - REFER TO CIVIL				
D-102	AREA DRAIN - REFER TO CIVIL				
D-103	MEXICAN BEACH PEBBLE RIVER ROCK - 1.5" - 3" DIA. 3" DEPTH				
D-104	PERFORATED DRAIN PIPE, REFER TO CIVIL.				
SYMBOL	SITE FURNISHINGS DESCRIPTION	DETAIL			
F-101	BENCHES - PRICE AS ALTERNATE #2	3/H2.02			
F-102	TRASH CANS - PRICE AS ALTERNATE #2	1/H2.02			
F-103	TABLES WITH UMBRELLA AND CHAIRS - PRICE AS ALTERNATE #2	5/H2.02			
F-105	BIG BELLY TRASH COMPACTOR - BY OWNER	2/H2.02			
SYMBOL	HARDSCAPE DETAILS DESCRIPTION	DETAIL			
H-102	HANDRAIL.	5/H2.01			
H-103	CONCRETE STEPS	3/H2.01			
H-104	BRICK SEAT WALL - BRICK TO MATCH ARCHITECTURE	2/H2.01			
H-105	MEDALLION WITH UNIVERSITY LOGO PRICE AS ALTERNATE #2	8/H2.02			
H-106	EXISTING RETAINING WALL W/ PAINTED FINISH	1/H2.01			
H-109	C.I.P. WALL	10/H2.01			
SYMBOL	SITE LIGHTING DESCRIPTION	DETAIL			
L-101	POLE LIGHT - PRICE AS ALTERNATE #1	6/H2.02			
<u>SYMBOL</u>	PAVING DESCRIPTION	DETAIL			
P-101	CONCRETE WALK	6/H2.01			
P-104	SAND SET PAVERS	7/H2.01			
P-105	STEPPING STONES	9/H2.01			
SITI	SITE DATA:				

SITE AREA: 18,274 S.F. 5,132 S.F. (28%) IMPERVIOUS AREA (%): EXISTING HARDSCAPE: 2,913 S.F. 2,219 S.F. ADDITIONAL HARDSCAPE: LANDSCAPE AREA (%): 13,142 S.F (72%)

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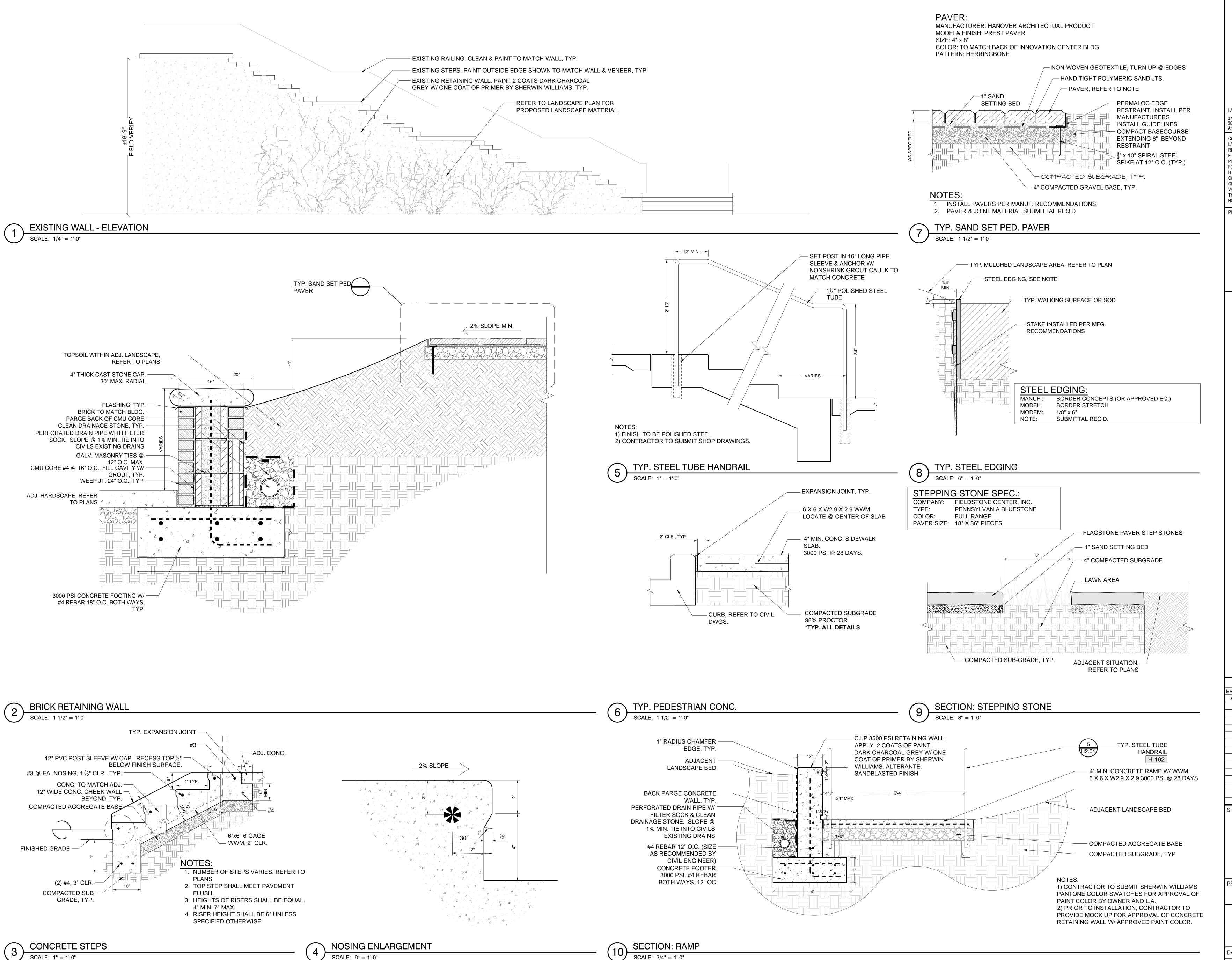
SHEET TITLE:

HARDSCAPE PLAN

PROJECT NUMBER: 14017

H1.01

DATE: 02.02.2016

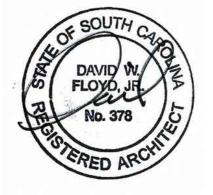


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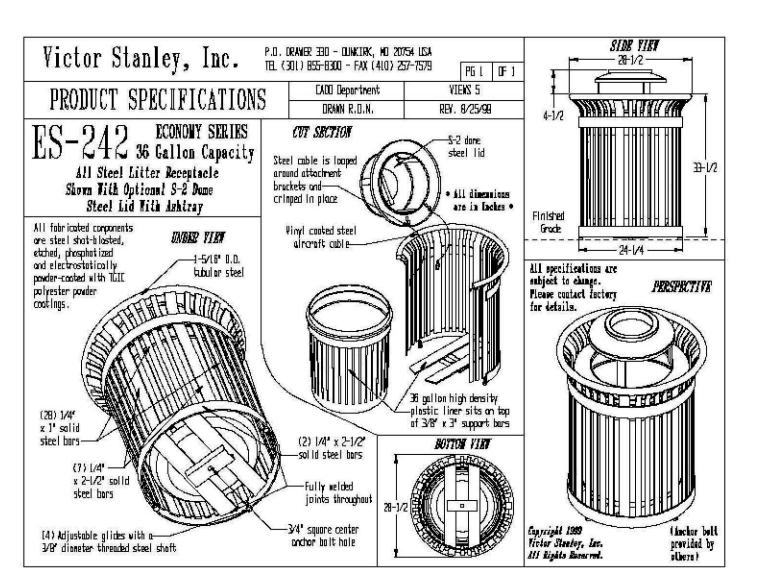
SHEET STATUS MARK DATE BY RELEASE 03/03/2016 MDS BID DOCUMENTS

SHEET TITLE:

HARDSCAPE DETAILS

PROJECT NUMBER: 14017

DATE: 02.02.2016



FINISH: SILVER POWDER COAT

3-color LED status lamps indicate compacted trash level, machine

GPRS wireless data link for remote monitoring and management

Fully interlocked access doors protect users and service personnel

Fault-tolerant design for hopper insertion door prevents access to

Weather resistant, UV stabilized polyester powder-coat finish on all

Locked front trash removal door. (Locked rear door option available)

status and error codes

Safety Features

CE approved

compaction area

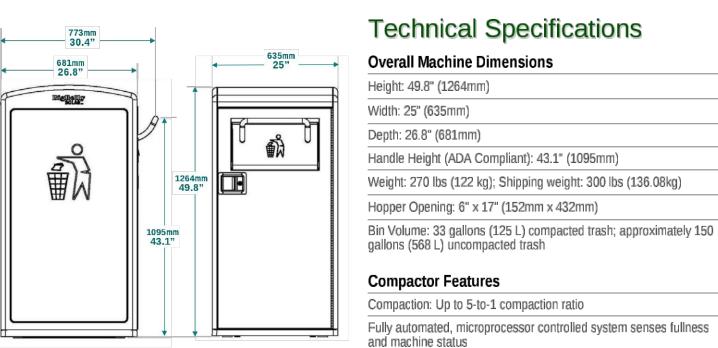
Durability

GPS assisted location service

Separately keyed service access

TRASH RECEPTACLE CUT SHEET

Bigbelly® High Capacity Compactor



Configurations: Mixed waste or single-stream recycling (with appropriate markings)

Materials RoHS compliant

Bigbelly Solar, Inc.

150 A Street - Suite 103

Needham, MA 02494 USA

SCALE: N.T.S.

FRAME FINISH: ALUMINUM

Galvanized sheet metal steel interior and exterior construction Heavy duty plastic side panels for dent and scratch resistance (recycled content) Interior Bin: Single bin is leak proof made out of low density polyethylene plastic

Power & Electronics Polycrystalline silicon cell PV module (20 watts). (30 watts HE [high energy] upgrade available). PV panel protected by polycarbonate bubble

Electronic components temperature range of -40°F to +185°F Spill-proof, sealed maintenance-free battery (-40°C to +85°C) Self-powered unit requires no wiring Fully weatherized, but in the event of a flood, Bigbelly can withstand: •Up to 20" (508mm) of water without harming the electronics Up to 36" (915mm) of water with only minor damage to electronics

Bigbelly.com

Toll-free: +1 888.820.0300 International: +1 781.444.6002 FAX: +1 781.444.5651 Info_TechSpecs(BB5)_2015Jun

TRASH COMPACTOR CUT SHEET

Neoliviano Backed Bench, 69in, Embedded, Wood Date: 8/10/2010 www.landscapeforms.com Ph: 800.521.2546

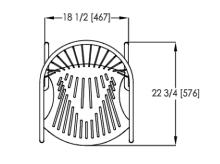
WOOD BOARD THREADED ROD FOR EMBEDDING, M10 x 120mm 4 PLACES WOOD FINISH: PURPLEHEART

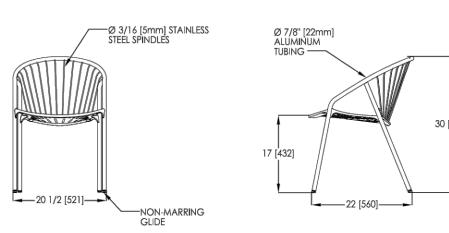
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LANDSCAPE FORMS NEOLIVIANO BENCH CUT SHEET SCALE: N.T.S.

CatenaTM Chair Date: 5/3/2010 www.landscapeforms.com Ph: 800.521.2546





FINISH: SILVER **POWDECOAT**

LANDSCAPE FORMS CATENA CHAIR CUT SHEET

 Tables
 Catena 30in Round Top, With Umbrella Hole, Catena Surface Mount Support
 Date: 5/7/2013 www.landscapeforms.com Ph: 800.521.2546 * UNIT MUST BE SURFACE MOUNTED WHEN USED WITH UMBRELLA * SELECT POWDERCOATED STEEL OR STAINLESS STEEL (3) 7/16" DIA HOLES EQUALLY SPACED FOR SURFACE MOUNTING BASE. NON-CORROSIVE ANCHORING HARDWARE SUPPLIED BY OTHERS.

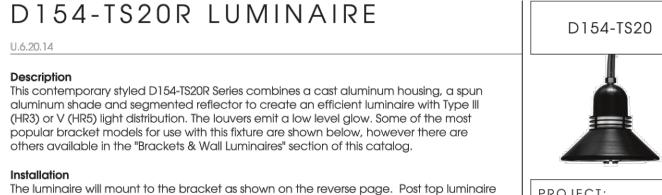
FINISH: SILVER **POWDERCOAT**

rawing: CT5105 imensions are in inches [mm]

NOTE: INCLUDE OPTION TO LINK CHAIRS TO TABLE (FOR THEFT PROTECTION) CONFIDENTIAL DRAWING INFORMATION CONTAINED HEREIN IS THE PROPERTY OF LANDSCAPE FORMS, INC. INTENDED USE IS LIMITED TO DESIGN PROFESSIONALS SPECIFYING LANDSCAPE FORMS, INC. PRODUCTS AND THEIR DIRECT CLEMTS. DRAWING IS NOT TO BE COPIED OR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF LANDSCAPE FORMS, INC. ALL RIGHTS RESERVED.

LANDSCAPE FORMS CATENA TABLE CUT SHEET

D154-TS20R LUMINAIRE



brackets will mount to a 3" OD post or tenon with (6) 5/16" stainless steel set screws. Wall bracket models have four 3/8" holes for mounting (wall mount hardware is not included). TYPE: CBR41-1-24 FIXTURE FINISH: BLACK

 Suitable for wet location (HR3-GL) - Type III segmented reflector with a clear flat tempered glass. (HR5-GL) - Type V segmented reflector with a clear flat tempered glass.

High power factor ballast (HPF), core and coil type, pre-wired and tested

Clear smooth flat tempered glass (GL) Premium quality thermoset polyester powdercoat

Easy ballast pod access

4KV pulse rated porcelain socket

Description

for a durable finish in the following: ATC - Antique Copper BLK - Satin Black CLB - Classic Bronze GTG - Granite Green WHT - White POWDER COATED TOUGH TBK - Textured Black

PT01/D154-TS20R 70,100,150HPS 208v CLB,GRN PL-13 240v GTG,TBK CFL26,32,42 277v WHT

1) CONTRACTOR TO PROVIDE CUTSHEET FOR LIGHTING FIXTURE, MOUNTING AND POLE FOR APPROVAL BY ELECTRICAL, LANDSCAPE ARCH. AND OWNER PRIOR TO INSTALLATION.

2) LIGHT FIXTURE, MOUNTING AND POLE TO

Ameriux reserves the right to change details that do not affect overall function and performance.

See next page for more complete ordering options



Part String

Example: D154-TS20-T5/70MH/BLK

amerlux

LUMINARE CUT SHEET

MATCH EXISTING.

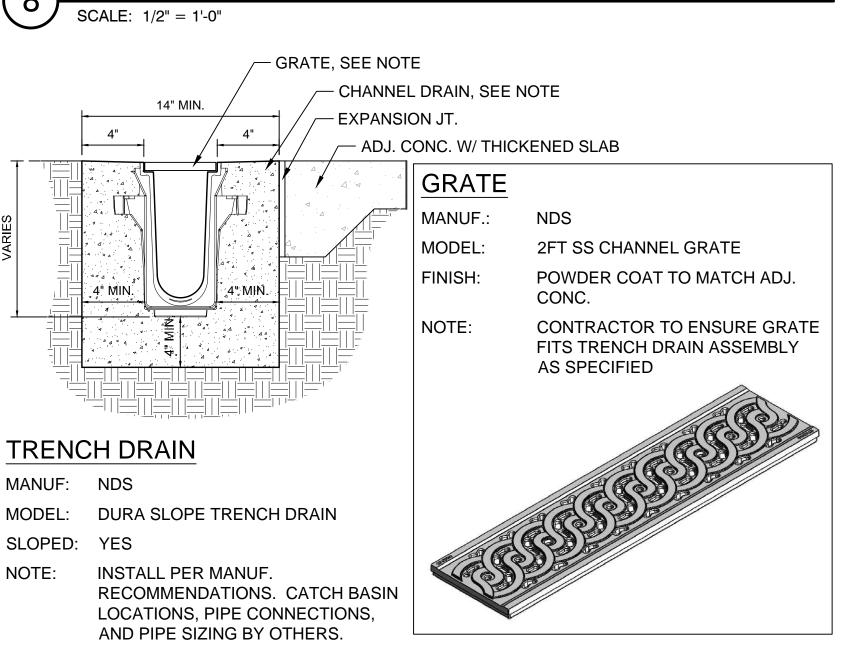
SCALE: 1" = 1"

Manhattan Series Features: 13 ½" diameter fluted cast aluminum Choice of extruded shafts
• 4" to 3" OD smooth tapered
• 4" OD fluted (12 flutes) .125 wall
• 4" OD smooth round .125 wall
• 5" OD fluted (12 flutes) .125 wall 4" to 3" OD 4" OD Fluted 4" OD Smooth 5" OD Fluted Tapered .125 wall .125 wall .125 wall Extruded shaft is circumferentially welded to the base Access door for anchor bolts and 6" Straight wiring is secured with stainless steel Ground lug provided inside base Capable of supporting multiple light Base - Cast aluminum (356-T6) Shaft - Extruded Aluminum (6063-T6) - Tapered Aluminum (6063-T6) Anchor Bolts - Hot dipped galvanized Premium quality thermoset polyester powdercoat for a durable finish. overall height -- Ø13 ½" **-**-AP7405 FPH-4 FPH-5 GFCI Example: AP7405-08/BLK 800.364.0098 • Fax: 281.997.5441 • www.amerluxexterior.com

1.) GRANITE COLOR TO BE CALEDONIA POLISHED SLAB PROVIDE SAMPLE FOR APPROVAL. -2.) ALL LETTERS TO BE PAINTED BLACK WITH LITHCO PAINT. 3.) CONTRACTOR TO FIELD MEASURE AREAS FOR GRANITE BANDS BEFORE ORDERING 4.) ALL GRANITE TO HAVE THERMAL FINISH

– 3/8" MORTARJOINT, TYP. - 4" x 4" COBBLE PAVER BORDER - GRANITE 'USC SEAL' MEDALLION W/ INSCRIPTION. SET IN 1/2" STABILIZING SAND SETTING BED. MEDALLION TO MAINTAIN GRADING INTENT. GRANITE COLOR TO BE CALEDONIA POLISHED SLAB LETTERS TO BE SANDBLASTED WITH A 1/8" DEPTH. TIMES NEW ROMAN FONT. LETTERS TO BE PAINTED BLACK.

DETAIL: USC MEDALLION



SECTION: SLOPPED TRENCH DRAIN SCALE: 1 1/2" = 1'-0"

DAVID W. FLOYD ANDSCAPE ARCHITECTURE+ LAND PLANNIN

715 Northside Parkway 300 Northcreek, Bldg. 300 Atlanta, Georgia 30327

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PROFESSIONAL STAMP:



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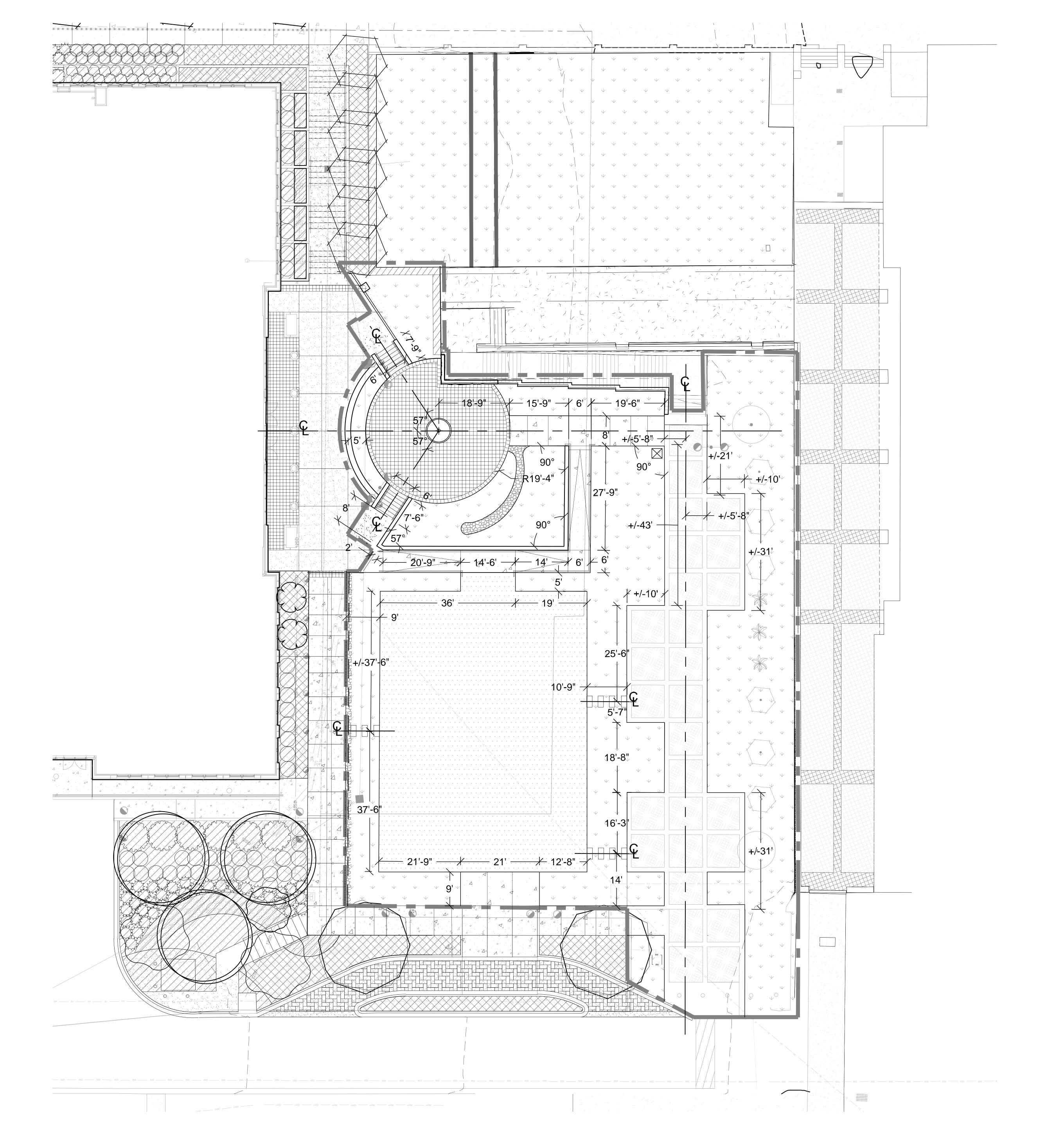
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SHEET STATUS IARK DATE BY RELEASE 03/03/2016 | MDS | BID DOCUMENTS

HARDSCAPE **DETAILS**

PROJECT NUMBER: 14017

SHEET TITLE:



LAYOUT NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS, GIVING NOTICES, AND PAYING FEES. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY AND STATE BUILDING CODES AND ORDINANCES RELATING TO THIS CONSTRUCTION PROJECT.

2. IN EVENT OF ANY DISCREPENSIES FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTER DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

3. WHERE PLAN DETAILS DIFFER FROM CITY STANDARDS, THE LATTER SHALL BE SUBSTITUTED IN APPROVED IN WRITING BY LANDSCAPE ARCHITECT.

4. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

5. NO SUBSTITUTIONS OF ANY MATERIALS OR PRODUCTS SHALL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.

6.CONTRACTOR TO LAY OUT ALL PROPOSED <u>WALK, WALLS, FENCING, RAILING, HANDRAILS, LIGHTING, SITE FURNISHINGS, PAVERS, STEPS, LANDSCAPE, TRELLIS, AND IRRIGATION AND RECEIVE OWNER AND LANDSCAPE ARCHITECTS APPROVAL PRIOR TO CONSTRUCTION.</u>

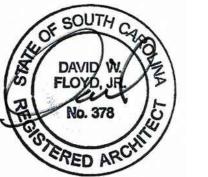
7. ALL SURFACES TO BE POWER-WASH CLEANED AT SUBSTANTIAL AND FINAL COMPLETION

DAVID W. FLOYD

LANDSCAPE ARCHITECTURE+ LAND PLANNING
3715 Northside Parkway T: 404.705.9411
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Atlanta, Georgia 30327

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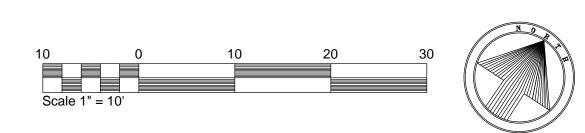
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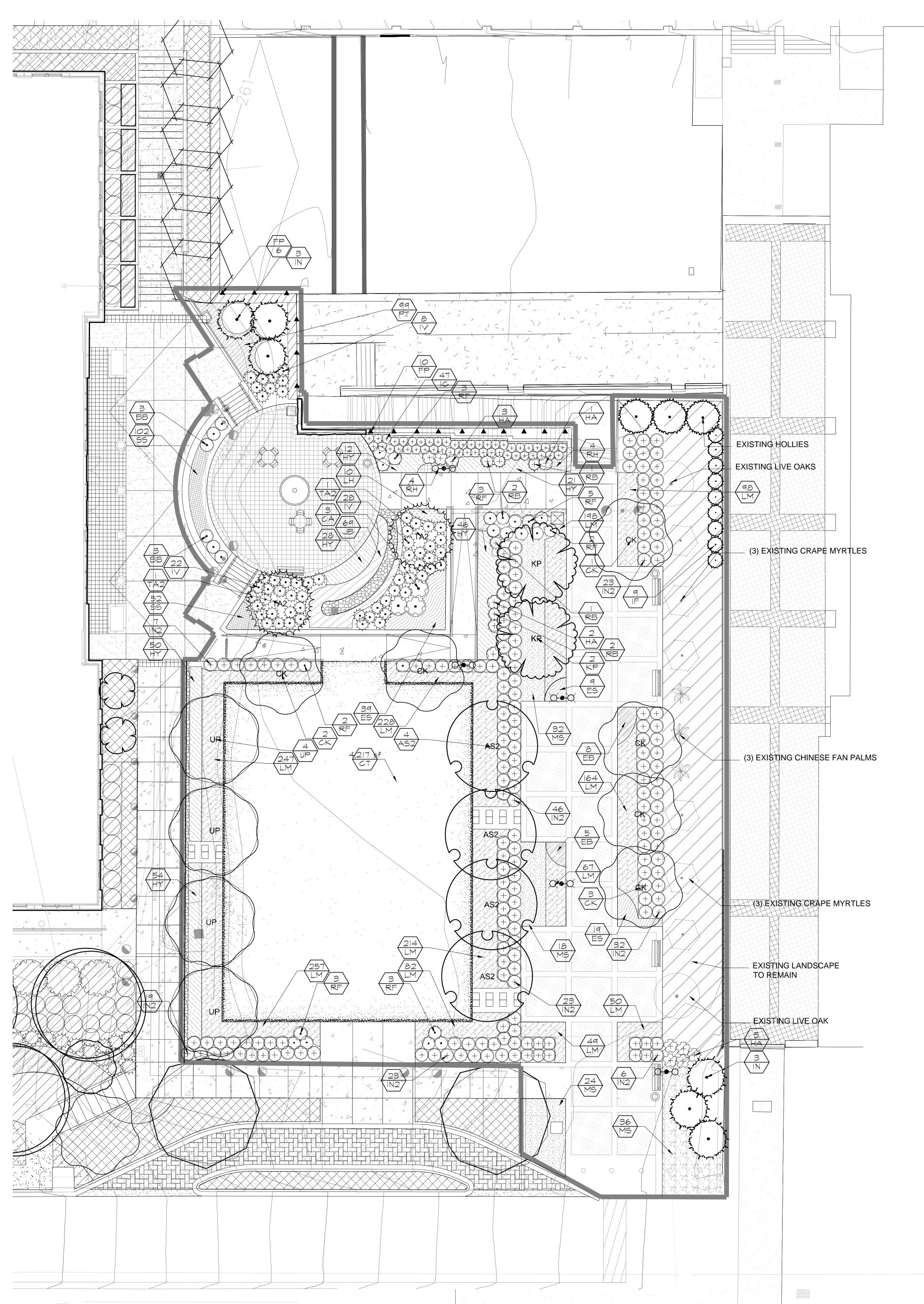
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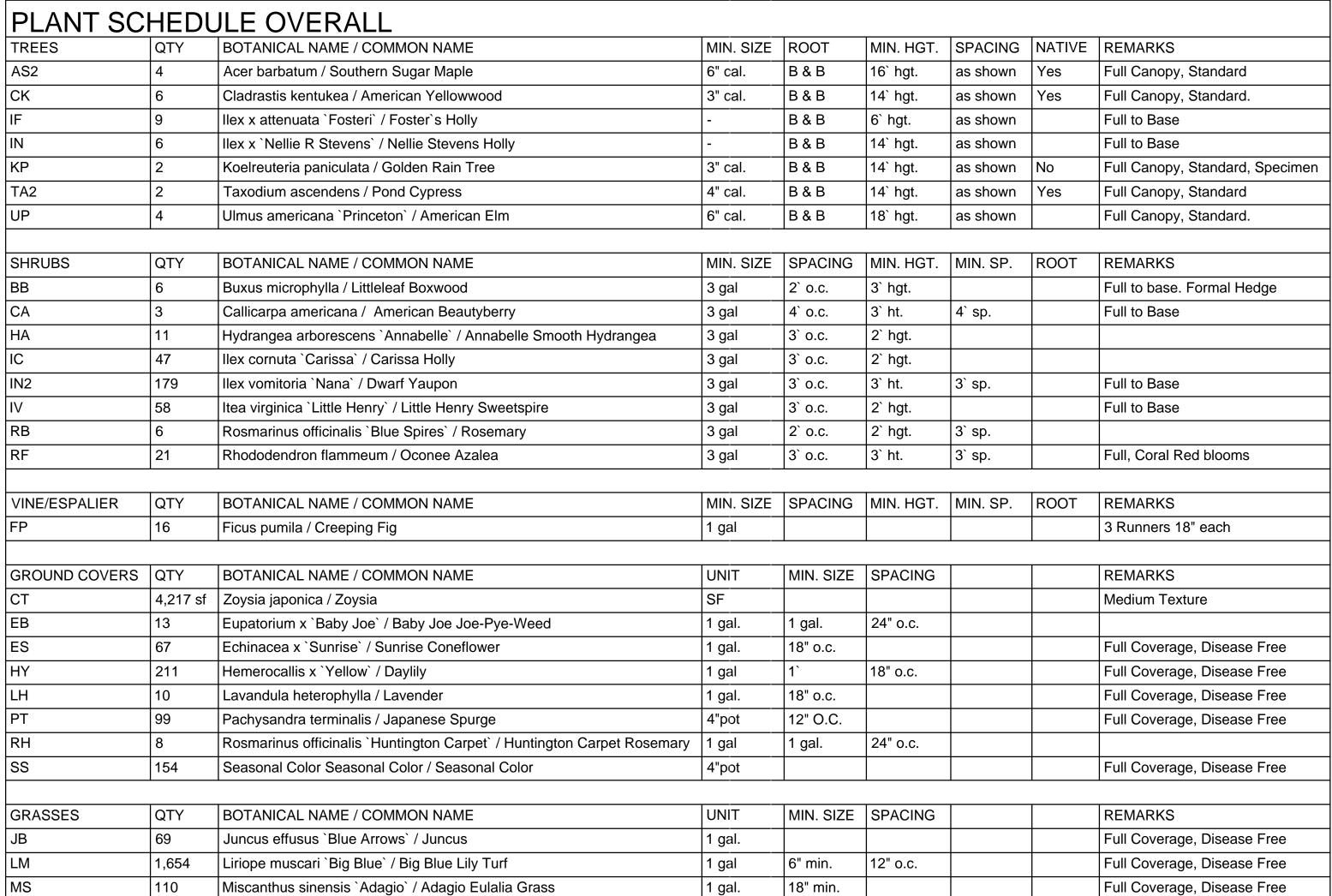
LAYOUT PLAN

PROJECT NUMBER:

H3.01







Innovation Center Park

DAVID W. FLOYD

3715 Northside Parkway 300 Northcreek, Bldg. 300 Atlanta, Georgia 30327

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SHEET STATUS

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SHEET TITLE

LANDSCAPE PLAN

PROJECT NUMBER: 14017

L1.01

DATE: 02.02.2016

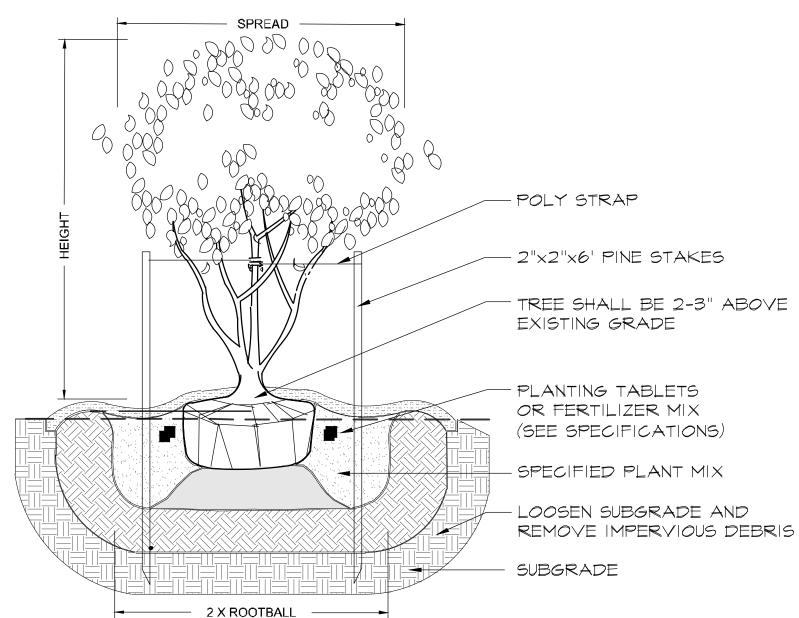
NOT ISSUED FOR CONSTRUCTION.

10 0 10 20 30 Scale 1" = 10'

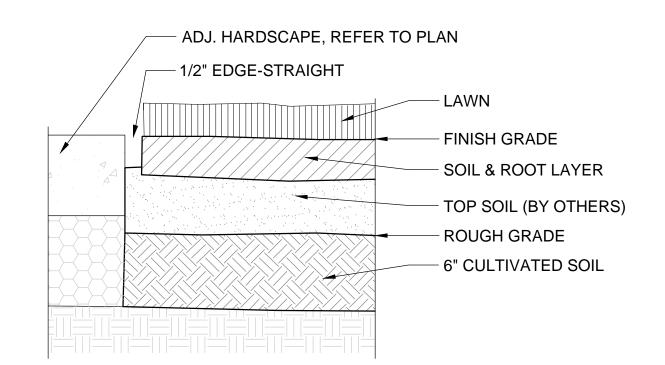
TREE PLANTING NOTES & PROCEDURES

- 1. EXCAVATE TREE PIT TO A DEPTH EQUAL TO DEPTH OF ROOTBALL PLUS 24", AND A WIDTH EQUAL TO TWO (2) TIMES THE DIAMETER OF THE ROOTBALL.
- 2. FILL TREE PIT WITH WATER AND CONFIRM PERCOLATION RATE. (NOTIFY LANDSCAPE ARCHITECT IF POOR DRAINAGE CON DITIONS EXIST.)
- 3. INSTALL TREE PER DETAIL AVOIDING DAMAGE TO ROOTBALL OR TREE TRUNK.
- ADD SPECIFIED FERTILIZER TABLETS & MYCORRHIZAL TRANSPLANT INOCULANT. REMOVE BURLAP ON TOP 1/3 OF TREE ROOTBALL. REMOVE BURLAP ON TOP 1/3 OF TREE
- 6. IMMEDIATELY SOAK TREE PIT WITH WATER AND REMOVE ANY AIR POCKETS THAT MAY HAVE OCCURRED DURING BACKFILLING.

DETAIL: TYPICAL TREE PLANTING



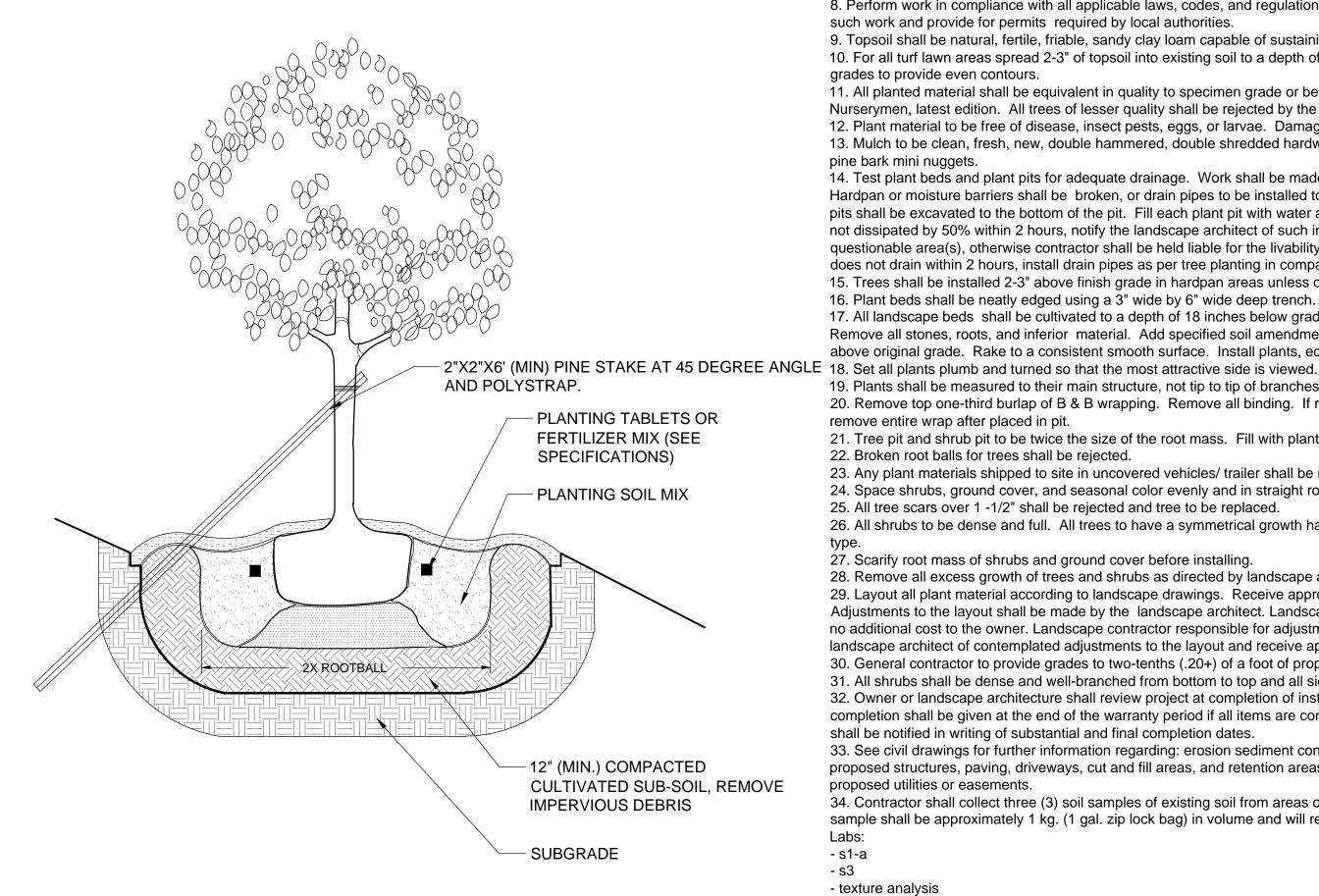
DETAIL: TYP. MULTI TRUNK TREE PLANTING UNDER 6 SCALE: NTS



INSTALLATION NOTES:

- 1. GENERAL CONTRACTOR TO PROVIDE GRADES TO WITHIN TWO TENTH OF A FOOT FOR PROPOSED GRADES. 2. CULTIVATE TO A DEPTH OF 6".
- 3. FINE GRADE AS REQUIRED TO REACH FINISH GRADE PER CIVIL DRAWINGS.
- 4. APPLY LIME AND FERTILIZER, REFER TO SPECIFICATIONS. 5. APPLY PRE-EMERGENT HERBICIDE PER MANUFACTURE'S RECOMMENDATION.
- 6. LAY SOD & ROLL LEVEL. 7. WATER ENTIRE AREA THOROUGHLY.
- 8. INSTALL SOD SO THAT THE TOP OF SOIL & ROOT LAYER IS LEVEL WITH TOP OF PAVEMENT.

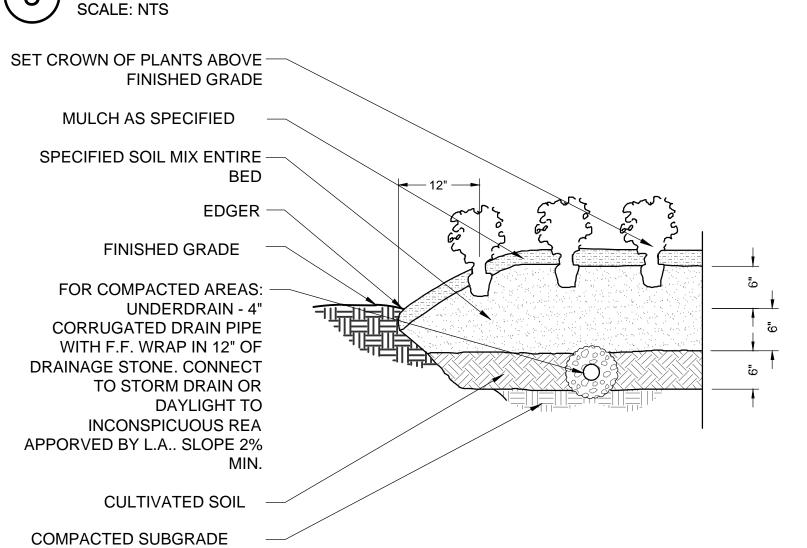
DETAIL: TYP. SOD INSTALLATION SCALE: NTS



DETAIL: TYP. TREE PLANTING ON SLOPE

SCALE: NTS O.C. --- O.C. ---MULCH -TRENCH -LAWN EDGE OR BACK OF CURB I. IF ROOTBALL IS WRAPPED IN NON-BIODEGRADEABLE BURLAP, REMOVE ENTIRE WRAP AFTER PLACED IN PIT. 2. 'X'= TYP. ON CENTER SPACING AS SHOWN ON PLANT SCHEDULE 3. ALL ROWS TO BE STRAIGHT AND PARALLEL

DETAIL: TYP. PLAN MASS SPACING



NOTES: 1. REFER TO SPECIFICATIONS FOR FERTILIZATION REQUIREMENTS.

DETAIL: SEASONAL COLOR & PERENNIAL BED PREPARATION SCALE: NTS

1. Contractor to carefully examine the contract documents and existing conditions before submitting bid proposal or

2. Damage to existing utilities or site improvements caused by the contractor are the full responsibility of contractor. 3. Contractor's base bid to include all materials, labor, permits, equipment, tools, insurance, ETC. to perform the work as described in the contract documents.

4. Contractor to complete work within schedule established by owner. 5. Contractor to provide one year warranty for all material from date of substantial completion.

6. Provide unit price for all materials (installed cost) listed on the plant schedule. 7. Contractor to provide interim maintenance (watering, pruning, fertilizing, guying, mowing, trimming, adequate drainage of ponding areas, edging, weeding, mulching, application of insecticides/herbicides, and general landscape clean-up) until substantial completion notice is provided by the owner or landscape architect.

8. Perform work in compliance with all applicable laws, codes, and regulations required by authorities having jurisdiction over such work and provide for permits required by local authorities.

9. Topsoil shall be natural, fertile, friable, sandy clay loam capable of sustaining plant growth, free of stones, stumps, ETC. 10. For all turf lawn areas spread 2-3" of topsoil into existing soil to a depth of 6" below finish grade. Hand rake finished

grades to provide even contours. 11. All planted material shall be equivalent in quality to specimen grade or better, as noted by the American Association of Nurserymen, latest edition. All trees of lesser quality shall be rejected by the city arborist.

12. Plant material to be free of disease, insect pests, eggs, or larvae. Damaged plant material shall be rejected. 13. Mulch to be clean, fresh, new, double hammered, double shredded hardwood mulch, 2" thick. Seasonal color beds to be pine bark mini nuggets.

14. Test plant beds and plant pits for adequate drainage. Work shall be made by the contractor at no additional cost to owner. Hardpan or moisture barriers shall be broken, or drain pipes to be installed to provide proper drainage of plant areas. Plant pits shall be excavated to the bottom of the pit. Fill each plant pit with water and observe the pit for 2 hours. If the water has not dissipated by 50% within 2 hours, notify the landscape architect of such in writing before installing plants in the questionable area(s), otherwise contractor shall be held liable for the livability of the plant. In hardpan conditions where water

does not drain within 2 hours, install drain pipes as per tree planting in compacted soil area detail. 15. Trees shall be installed 2-3" above finish grade in hardpan areas unless otherwise directed to provide drainage. 16. Plant beds shall be neatly edged using a 3" wide by 6" wide deep trench. Provide 2/1 side slope behind trench edge. 17. All landscape beds shall be cultivated to a depth of 18 inches below grade to break through compacted or hardpan soil. Remove all stones, roots, and inferior material. Add specified soil amendments and fertilizer. Elevate entire bed 6 inches

19. Plants shall be measured to their main structure, not tip to tip of branches.

20. Remove top one-third burlap of B & B wrapping. Remove all binding. If rootball is wrapped in non-biodegradeable burlap, remove entire wrap after placed in pit.

above original grade. Rake to a consistent smooth surface. Install plants, edge bed area, mulch and water thoroughly.

21. Tree pit and shrub pit to be twice the size of the root mass. Fill with plant mix. See details. 22. Broken root balls for trees shall be rejected.

23. Any plant materials shipped to site in uncovered vehicles/ trailer shall be rejected regardless of season.

24. Space shrubs, ground cover, and seasonal color evenly and in straight rows. 25. All tree scars over 1 -1/2" shall be rejected and tree to be replaced.

26. All shrubs to be dense and full. All trees to have a symmetrical growth habit (360 degrees) unless uncharacteristic to plant

27. Scarify root mass of shrubs and ground cover before installing. 28. Remove all excess growth of trees and shrubs as directed by landscape architect. Do not cut central leader.

29. Layout all plant material according to landscape drawings. Receive approval of all layouts before installation. Adjustments to the layout shall be made by the landscape architect. Landscape contractor to make adjustments to layout at no additional cost to the owner. Landscape contractor responsible for adjustment of layout in order to avoid utilities. Notify landscape architect of contemplated adjustments to the layout and receive approval before commencing.

30. General contractor to provide grades to two-tenths (.20+) of a foot of proposed finish grades. 31. All shrubs shall be dense and well-branched from bottom to top and all sides. "Leggy" shrubs will be rejected by L.A. 32. Owner or landscape architecture shall review project at completion of installation for substantial completion. Final completion shall be given at the end of the warranty period if all items are completed to the owner's satisfaction. Contractor shall be notified in writing of substantial and final completion dates.

33. See civil drawings for further information regarding: erosion sediment control information, locations of existing and proposed structures, paving, driveways, cut and fill areas, and retention areas, limits of construction, locations of existing and proposed utilities or easements. 34. Contractor shall collect three (3) soil samples of existing soil from areas on site to receive planting for testing. Each soil

sample shall be approximately 1 kg. (1 gal. zip lock bag) in volume and will receive the following tests by A&L Agricultural - s1-a

- texture analysis

infiltration

Send soil samples to:

Mr. Lynn Griffith A&L Southern Agricultural Laboratories

1199 West Newport Center Drive Deerfield Beach, Florida 33442

*Send test results to landscape architect.

SCALE: NTS

LANDSCAPE NOTES

DAVID W. FLOYD LANDSCAPE ARCHITECTURE+ LAND PLANNING 3715 Northside Parkway

300 Northcreek, Bldg. 300

Atlanta, Georgia 30327

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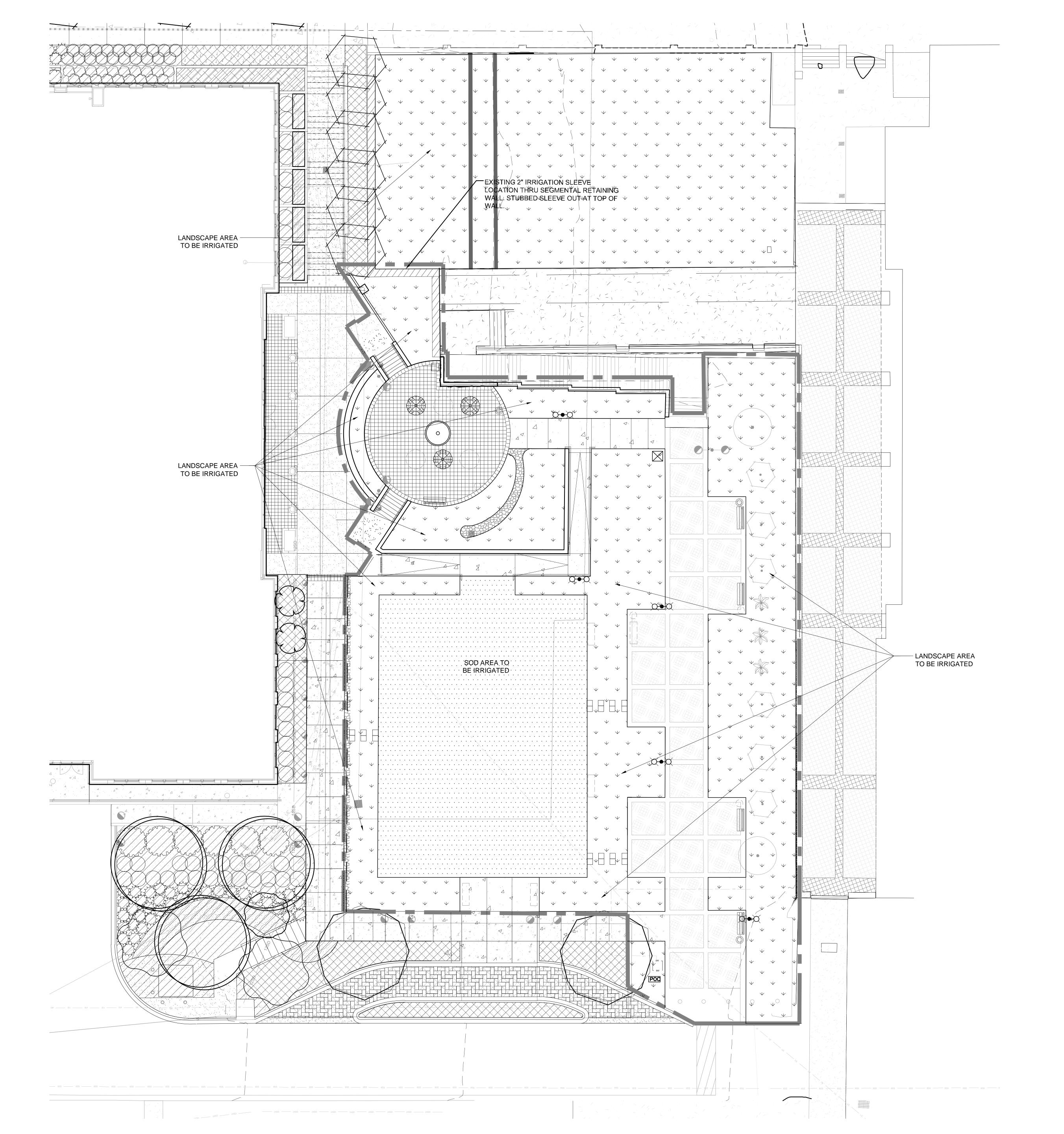
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SHEET TITLE:

LANDSCAPE DETAILS

PROJECT NUMBER: 14017

DATE: 02.02.2016



IRRIGATION LEGEND:

POINT OF CONNECTION TO THE IRRIGATION SYSTEM WATER SUPPLY PER LOCAL CODES. PROVIDE IRRIGATION WATER METER AND BACKFLOW PREVENTER PER PLANS.

NOTE: CONTRACTOR TO PROVIDE LATERAL LINE SIZING ON SUBMITTALS FOR REVIEW.

IRRIGATION NOTES:

1) SITE TO BE IRRIGATED BY AN AUTOMATED IRRIGATION SYSTEM DESIGNED AND INSTALLED BY A LICENSED IRRIGATOR IN ACCORDANCE TO STATE LAW.

2) CONTRACTOR SHALL SUPPLY AND INSTALL ALL VALVES, HEADS, PIPE, CONTROLLING, WIRING, BACKFLOW PREVENTOR, AND

CONTROLLER FOR A TWO WIRE IRRIGATION SYSTEM.

3) COORDINATE LOCATION OF POINT CONNECTION (FXX), BACKFLOW PREVENTOR AND CONTROLLER (A) (B), WITH OWNER

PRIOR TO INSTALLATION.

4) LOCATION OF ALL LINES ARE DIAGRAMMATIC.

5) DRIP IRRIGATION TUBING TO BE SECURED TO THE GROUND USING $\frac{1}{2}\text{"}$ STAKES.

6) CONTRACTOR TO PROVIDE A POP-UP VISUAL INDICATOR HEAD AT THE END OF EACH DRIP IRRIGATION ZONE.

7) ALL IRRIGATION CONNECTIONS INSIDE OF THE BUILDING TO BE DETAILED BY PLUMBING ENGINEER.

DAVID W. FLOYD

LANDSCAPE ARCHITECTURE+ LAND PLANNING

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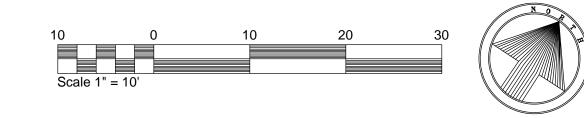
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MARK	DATE	BY	RELEASE
Α	03/03/2016	MDS	BID DOCUMENTS

IRRIGATION PLAN

ROJECT NUMBER: 14017

IR1.01



	ELECTRICAL SYMBOL SCHEDULE
	EQUIPMENT AS NOTED.
ı	PANELBOARD. SEE SCHEDULE FOR REQUIREMENTS
- ⊢ ı·	NEC-REQUIRED GROUNDING FOR SERVICE OR SEPARATELY DERIVED SYSTEM.
GLA-1,3,5	CIRCUIT HOMERUN TO PANELBOARD SHOWN LABELED WITH PANELBOARD DESIGNATION AND CIRCUIT NUMBER. UNLESS OTHERWISE NOTED, CONDUIT SHALL BE MINIMUM 3/4" WITH #12 WIRING FOR THE NUMBER OF CIRCUITS INDICATED.
	BOND THE EQUIPMENT GROUNDING CONDUCTOR TO EVERY PULL BOX AND TO EVERY JUNCTION BOX THROUGH WHICH IT PASSES.
	RACEWAY CONCEALED IN WALLS, CEILINGS, BELOW SLAB, CHASES OR OTHER BUILDING ELEMENTS.
\P	DUPLEX RECEPTACLE, FLUSH MOUNTED. 18" AFF. SUBSCRIPT "DIR" DENOTES RECEPTACLE & DATA OUTLET FOR WALL MOUNTED DIRECTORY. SEE ARCHITECTURAL ELEVATIONS AND DIRECTORY SHOP DRAWINGS FOR EXACT LOCATION OF DEVICES. SUBSCRIPT "SP" DENOTES SURGE PROTECTOR TYPE. SUBSCRIPT "TP" DENOTES TAMPER PROOF TYPE. SUBSCRIPT "WP" DENOTES WEATHER PROOF WHILE IN USE COVER PLATE. SUBSCRIPT "WC" DENOTES COORDINATE MOUNTING LOCATION BEHIND WATER COOLER. SUBSCRIPT "+72" DENOTES MOUNTING HEIGHT, (72" AFF).
=•	GFCI DUPLEX RECEPTACLE, FLUSH MOUNTED. 18" AFF.
CB	EMERGENCY CALL BOX. SEE DRAWING E0.02 FOR ADDITIONAL REQUIREMENTS

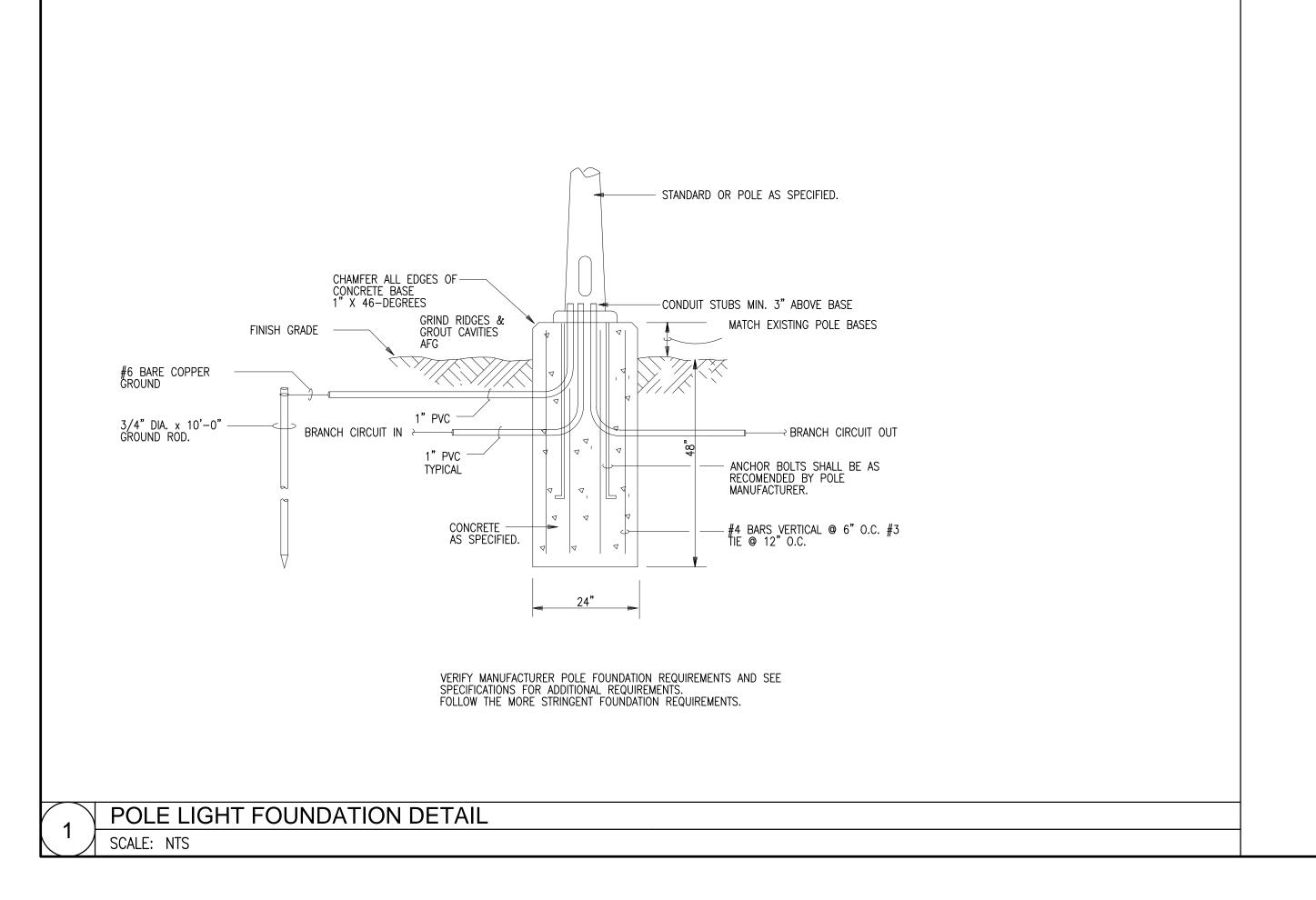
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ΙИ	ALL COMPLET CHALL BE INCTALLED IN AN
ıи	ALL CONDUIT SHALL BE INSTALLED IN AN
l Ia	NEAT AND ODDEDLY MANNED DEDDENDICHLAD
ırı	NEAT AND ORDERLY MANNER, PERPENDICULAR
IN	TO ALL BUILDING WALLS AND BEAMS AND
ΙИ	TO ALL BOILDING WALLS AND BLAWS AND
IИ	SHALL COMPLY STRICTLY WITH ALL CODES
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IИ	IBC WITH NO EXCEPTIONS.
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GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF ALL WALL MOUNTED DEVICES WITH INTERIOR ELEVATIONS PRIOR TO ROUGH-IN. 2. FOR ALL 120 VOLT CIRCUITS: PROVIDE #10 CONDUCTORS FOR ALL 120 VOLT CIRCUITS OVER 150 FT. UNLESS SIZED LARGER PER THE PANEL SCHEDULE.

	LIGHT FIXTURE SYMBOL SCHEDULE				
AA O O AA	LIGHTING FIXTURE, UPPERCASE LETTERS INDICATES FIXTURE TYPE. (TYP.) SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION. SUBSCRIPT N. DENOTES THE FIXTURE TO BE WIRED UNSWITCHED. LOWERCASE LETTERS INDICATES LIGHTING CONTROL ZONES. ASTERISK INDICATES LIGHTING CONTROL PANEL RELAY (I.E. *5 INDICATES RELAY #5). SEE LIGHTING CONTROL PANEL SCHEDULE FOR CIRCUIT.				
AA PE	EMERGENCY FLUORESCENT LIGHTING FIXTURE CONNECTED TO EMERGENCY GENERATOR LIGHTING CIRCUIT. UPPERCASE LETTERS INDICATES FIXTURE TYPE. (TYP.) SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION. SUBSCRIPT NL DENOTES THE FIXTURE TO BE WIRED UNSWITCHED. LOWERCASE LETTERS INDICATES LIGHTING CONTROL ZONES. ASTERISK INDICATES LIGHTING CONTROL PANEL RELAY (I.E. *5 INDICATES RELAY #5). SEE LIGHTING CONTROL PANEL SCHEDULE FOR CIRCUIT.				
t © t	EXIT LIGHT, CEILING MOUNTED, SHADED REGION INDICATES FACE(S) REQUIRED. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED. ALL EXIT LIGHTS SHALL BE CONNECTED UNSWITCHED TO AN EMERGENCY GENERATOR LIGHTING CIRCUIT.				
ΗΦ	EXIT LIGHT, WALL MOUNTED, SHADED REGION INDICATES FACE(S) REQUIRED. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED. SUBSCRIPT 'WG' DENOTES FIXTURES TO BE PROVIDED WITH WIRE GUARDS. AL EXIT LIGHTS SHALL BE CONNECTED UNSWITCHED TO AN EMERGENCY GENERATOR LIGHTING CIRCUIT.				
0 <u>\$1</u> 0	POLE MOUNTED SITE AREA LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION.				
PS	LIGHT FIXTURE POWER SUPPLY.				

	ADDDEVIATIONS.				
	ABBREVIATIONS:				
A OR AMP	AMPERES				
AFF	ABOVE FINISHED FLOOR				
AFG	ABOVE FINISHED GRADE				
AIC	AMPERES INTERRUPTING CAPACITY				
ASYM	ASYMMETRICAL				
BFG	BELOW FINISHED GRADE				
С	CONDUIT				
CATV	COMMUNITY ANTENNA TELEVISION				
СВ	CIRCUIT BREAKER				
CKT	CIRCUIT				
CT	CABLE TRAY				
DISC	DISCONNECT SWITCH				
DWG	DRAWING				
DW	DISHWASHER				
EMT	ELECTRICAL METALLIC TUBING				
EXIST	EXISTING				
EXP	EXPLOSION PROOF				
G OR GND	GROUND				
GF	GROUND FAULT CIRCUIT INTERRUPTER				
H OR HT	HEIGHT				
HP	HORSEPOWER				
HPS	HIGH PRESSURE SODIUM				
J OR JB	JUNCTION BOX				
K	KEYED				
KVA	KILOVOLT-AMPERES				
KW	KILOWATTS				
М	MANUAL STARTER				
MCB OR MB	MAIN CIRCUIT BREAKER				
MFR	MANUFACTURER				
MH	MANHOLE OR MOUNTING HEIGHT				
MIN	MINIMUM				
MLO	MAIN LUGS ONLY				
NEC	NATIONAL ELECTRICAL CODE				
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION				
NFC	NOT FOR CONSTRUCTION				
NTS	NOT TO SCALE				
Р	POLES OR PHASE				
SWBD	SWITCHBOARD				
SPEC	SPECIFICATIONS				
TYP	TYPICAL				
UG	UNDERGROUND				
UL					
UNO	UNLESS NOTED OTHERWISE				
V	VOLTS				
W	WATTS OR WALL MOUNTED, 54" AFF				
WC	ELECTRIC WATER COOLER				
WP	WEATHERPROOF				
X	REMOVE OR ABANDON EXISTING DEVICE				
XFMR	TRANSFORMER				
1111.1	THE RIGHT VISITIES				



THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, AND MATERIALS FOR THE INSTALLATION OF COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS AS SPECIFIED, SHOWN, OR IMPLIED HEREIN AND ON THE ASSOCIATED DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS, AND EQUIPMENT. TAKE FINISH DIMENSIONS AT THE JOB SITE IN PREFERENCE TO SCALING REVIEW THE CONSTRUCTION DOCUMENTS OF ALL TRADES AND COORDINATE WORK WITH THE OTHER TRADES AS NECESSARY TO AVOID CONFLICTS AND INTERFERENCE. THE CONTRACTOR (HENCE FORTH MEANING THE ELECTRICAL CONTRACTOR) SHALL VISIT THE SITE OF PROPOSED CONSTRUCTION AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING FIELD CONDITIONS AND VERIFY ALL ASPECTS OF THE PROPOSED WORK AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE COMPENSATED OR REIMBURSED FOR WORK NOT NECESSARILY SHOWN ON THE CONTRACT DOCUMENTS THAT COULD HAVE REASONABLY BEEN VERIFIED BY A SITE VISIT. ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES. COMPLIANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS SHALL SERVE AS THE ABSOLUTE MINIMUM STANDARDS. THE REGULATIONS OF THE LOCAL UTILITY SHALL GOVERN SERVICE CONNECTIONS AND METERING PROVISIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY AND L REQUIRED, PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE ARCHITECT. THE ARCHITECT SHALL BE NOTIFIED OF ALL INSPECTION REQUESTS AT THE SAME TIME AS THE INSPECTION AUTHORITY. LOCATIONS INDICATED FOR OUTLETS EQUIPMENT, ETC., ARE APPROXIMATE AND SHALL BE VERIFIED BY INSTRUCTION ON THE DRAWINGS OR CONSULTATION WITH THE OWNER. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIRED AND MANUFACTURED RECOMMENDED SERVICE CLEARANCES ARE MAINTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE PROPER INSTALLATION OF HIS WORK. HE SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIMSELF OR HIS WORKMEN AND SHALL BE RESPONSIBLE FOR REPAIR OF SUCH DAMAGE. ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED AND LABELED BY THE UNDERWRITER'S LABORATORIES (UL), FOR THE USE INTENDED. PROVIDE NEMA 1 ENCLOSURES FOR ELECTRICAL APPARATUS INSTALLED IN INTERIOR LOCATIONS AND NEMA 3R OR WEATHERPROOF ENCLOSURES FOR ELECTRICAL APPARATUS INSTALLED IN EXTERIOR LOCATIONS OR LOCATIONS OTHERWISE SUBJECT TO WEATHER OR MOISTURE. SHOP DRAWINGS AND CATALOG DATA SHALL BE SUBMITTED IN SIX COPIES. SUBMIT SHOP DRAWINGS AND CATALOG DATA FOR PANELBOARDS AND ALL SPECIAL SYSTEMS. SUBMIT BATTERY CALCULATIONS FOR ALL FIRE ALARM AND NURSE CALL SYSTEM MODIFICATIONS. SUBMIT CATALOG DATA ONLY FOR DISCONNECT SWITCHES, STARTERS, LIGHT FIXTURES, WIRES AND CABLES, RACEWAYS, AND WIRING DEVICES. ALL APPROVALS FOR SUBSTITUTIONS MUST BE OBTAINED BY THE CONTRACTOR TEN CALENDAR DAYS PRIOR TO BID DATE. A COMPLETE TEST OF ALL EQUIPMENT FURNISHED, INSTALLED, OR PROVIDED UNDER THIS CONTRACT SHALL BE PROVIDED BY THE CONTRACTOR. TESTING SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES. THE CONTRACTOR SHALL WARRANT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHOWN OR IMPLIED BY THESE DOCUMENTS TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. IF WITHIN ONE YEAR OF THE DATE OF FINAL ACCEPTANCE ANY WORKMANSHIP, MATERIALS OR EQUIPMENT IS FOUND TO BE FAULTY OR DEFECTIVE THE CONTRACTOR SHALL CORRECT IT PROMPTLY AT NO COST TO THE OWNER. THE CONTRACTOR SHALL OBTAIN A SIGNED AND NOTARIZED INSPECTION CERTIFICATE OF HIS WORK FROM THE LOCAL BUILDING INSPECTOR AND PRESENT IT TO THE ARCHITECT BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT. PRIOR TO BEGINNING EXCAVATION FOR UNDERGROUND WORK, INSPECT THE PROPOSED ROUTING OF THE UNDERGROUND RACEWAY BY WALKING THE AREA AND EXAMINING THE DOCUMENTS OF ALL TRADES TO DETERMINE ANY POTENTIAL CONFLICTS. COORDINATE THE LOCATION AND TIMING OF INSTALLATION WITH THE OWNER. PROVIDE SATISFACTORY MATERIAL FOR THE PURPOSES OF BACKFILL AND COMPACT SOIL TO 95% STANDARD PROCTOR. IN THE EVENT OF NOTICEABLE SETTLEMENT OF HE EXCAVATED AREA ADDITIONAL FILL SHALL BE PROVIDED AND COMPACTED TO BRING THE ELEVATION BACK TO FINISHED GRADE. COORDINATE ANY POWER OUTAGES WITH THE USC FACILITIES DEPARTMENT AND HOLDER PROPERTIES. PROVIDE RECORD DOCUMENTS IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS. IN ADDITION. INDICATE THE ROUTING OF RACEWAY SYSTEMS AND ALL CHANGES MADE DURING CONSTRUCTION TO THE DOCUMENTS. THE DEMOLITION PLANS AND/OR REFERENCES ARE INTENDED TO SHOW THE GENERAL SCOPE OF WORK INVOLVED AND DOES NOT INCLUDE ALL DEVICES, LIGHT FIXTURES AND EQUIPMENT OR COMPLETE DETAILS OF THE WORK INVOLVED. THE CONTRACTOR, BASED ON HIS EXPERIENCE, SHALL NCLLIDE IN THE ESTIMATE FOR THE WORK A REASONABLE AMOLÍNT OF RECONNECTION. REINSTALLATION, AND DEMOLITION WHICH MAY NOT BE REFLECTED BY THE PLANS OR IN THE MOST OF THE EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT THAT HAVE BEEN IDENTIFIED FROM THE PROJECT'S AS-BUILT DRAWINGS AND/OR FROM THE A/E FIELD INVESTIGATION ARE SHOWN USING STANDARD SYMBOLS ON THE DEMOLITION PLAN. DISCONNECT AND REMOVE ALL EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN ON THE DEMOLITION PLAN AS REQUIRED UNLESS SPECIFICALLY NOTED OTHERWISE. EQUIPMENT, FIXTURES OR DEVICES WHICH ARE TO REMAIN SHALL BE SHOWN DASHED ON THE RESPECTIVE POWER. LIGHTING OR OTHER APPLICABLE PLAN IN ADDITION TO THE DEMOLITION PLAN. SOME ITEMS WHICH ARE SHOWN TO BE REMOVED WILL BE RELOCATED AND REUSED. THOSE ITEMS

WILL BE SHOWN DASHED ON THE RESPECTIVE POWER, LIGHTING OR OTHER APPLICABLE PLAN AND

MECHANICALLY AND ELECTRICALLY SECURE ALL ELECTRICAL CONDUIT AND CONDUCTORS WHICH ARE ABANDONED. ABANDONED WIRING SHALL BE REMOVED BACK TO THE OVER CURRENT DEVICE WHICH PROTECTS IT. ABANDONED CONDUIT SHALL BE REMOVED BACK TO THE POINT OF CONCEALMENT.

RECONNECTED AS REQUIRED. ALL ELECTRICAL DEVICES TO BE REMAIN SHALL INSPECTED, CLEANED

FIXTURES AND EQUIPMENT SHOWN TO REMAIN IN ORDER TO MAINTAIN CONTINUITY OF POWER AND

GROUNDING. RECONNECT CIRCUITS TO LOADS IN OTHER AREAS OF THE BUILDING OR SITE WHICH

PROVIDE NEW REVISED, TYPED PANELBOARD DIRECTORIES FOR EXISTING PANELBOARDS TO REFLECT

DEVICES AND THE ASSOCIATED COVER PLATES WITH NEW DEVICES AND COVER PLATES TO MATCH HAT USED FOR RENOVATED AREAS AND NEW CONSTRUCTION. ALSO, WHERE NEW FINISHES ARE PLACED ON OR OVER EXISTING FINISHES EXTEND OUTLET BOXES TO ACCOMMODATE THE NEW

SPECIFIED, MEET THE REQUIREMENTS OF NEW CIRCUITS, AND REMAIN IN GOOD CONDITION.

NEW CIRCUIT CONDITIONS AS A RESULT OF CONSTRUCTION AND DEMOLITION. REPLACE ALL EXISTING

CONCRETE WORK: CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED FOR ALL FLOOR MOUNTED EQUIPMENT UNLESS OTHERWISE NOTED. PADS SHALL BE 3.5" ABOVE FINISHED FLOOR SLAB, STEEL REINFORCED, AND SHALL COVER THE ENTIRE FOOTPRINT OF EQUIPMENT PLUS AN ADDITIONAL 4" ON

GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NATIONAL

CONDUIT SHALL BE MINIMUM 3/4-INCH SIZE AND ZINC-COATED ELECTRICAL METALLIC TUBING (EMT)

UL 1242, NEC 342 AND ANSI C80.3; GRS SHALL BE SCHEDULE 40 STEEL WITH SURFACES PROTECTED BY METALLIC ZINC COATING AND SHALL CONFORM TO ANSI C80.1. IMC SHALL CONFORM TO UL1242 AND NEC WITH INTERIOR AND EXTERIOR SURFACES PROTECTED BY A METALLIC ZINC

RIGID NONMETALLIC CONDUIT (RNC) MAY BE USED ONLY FOR THE DUCTBANK CONDUITS, SECONDARY

POWER/TELEPHONE BRANCH CONDUITS BELOW THE CONCRETE FLOOR ON GRADE OR BURIED ON THE

EXTERIOR OF THE BUILDING UNLESS OTHERWISE INDICATED. RNC SHALL BE SCHEDULE 40 OR

UNDERGROUND SERVICE, UNDÉRGROUND TELEPHONE SERVICE ENTRANCE CONDUITS, AND

EXCEPT IN WET, DAMP WASHDOWN AREAS (INCLUDING KITCHENS) WHERE GALVANIZED RIGID STEE CONDUIT (GRS) OR INTERMEDIATE METAL CONDUIT (IMC) SHALL BE USED. EMT SHALL CONFORM TO

EXISTING CONDUIT AND CONDUCTORS MANY BE REUSED WHERE THEY ARE OF THE TYPE

EXISTING ELECTRICAL OUTLETS NOT SHOWN AS BEING ABANDONED OR REMOVED SHALL BE

ARE AFFECTED BY DEMOLITION WORK.

EACH SIDE. DOWEL PADS TO STRUCTURAL SLAB.

ELECTRICAL CODE AND DETAILS SHOWN ON THE PLANS.

COATING. GRS & IMC FITTINGS SHALL BE THREADED TYPE.

CONDUIT: CONDUIT SHALL BE REPUBLIC OR EQUAL.

AND REPAIRED OR REPLACED AS NECESSARY. MODIFY CIRCUITS TO EXISTING DEVICES, LIGHT

DEVICES AND APPLIANCES WHERE SUBJECT TO VIBRATION. USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT IN KITCHENS, OUTDOORS AND ANY OTHER LOCATIONS SUBJECT TO MOISTURE. FLEXIBLE METAL CONDUIT SHALL BE ZINC-COATED, SINGLE STEEL STRIP TYPE AND SHALL CONFORM TO UL 1 LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE CONSTRUCTED OF A FLEXIBLE, INTERLOCKED. GALVANIZED SINGLE STEEL STRIP CORE COVERED BY A POLYVINYL CHLORIDE JACKET AND SHALL ALL RACEWAY SHALL BE SUPPORTED ACCORDING TO NEC REQUIREMENTS. SECURE CONDUITS WITH STRAPS AND CLAMPS MANUFACTURED FOR THE PURPOSE. TIE WIRE AND TIE WRAPS ARE NOT ALLOWED TO SUPPORT OR SECURE CONDUITS. ACCEPT IN AREAS SPECIFICALLY INDICATED ON THE PLANS CONDUIT SHALL BE RUN CONCEALED. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS. WHERE RUN AT THE ROOF OR CEILING, GROUPINGS SHALL BE SINGLE DEPTH AND RUN TIGHT AGAINST THE STRUCTURE. FOR MULTIPLE DEPTH GROUPINGS AND OTHER SITUATIONS, A TRAPEZE ARRANGEMENT USING IHREADED RODS OF SUFFICIENT SUPPORTING STRENGTH WILL PERMITTED. ALL CONDUITS SHALL BE KEPT A MINIMUM OF 6-INCHES AWAY FROM PARALLEL RUNS OF STEAM OR HOT WATER PIPES AND FLUES. PROVIDE APPROVED SEALS FOR ALL WORK INSTALLED IN HAZARDOUS AREAS AS REQUIRED PROVIDE ACCESS DOORS IN WALLS AND CEILINGS FOR ACCESS TO PULL BOXES ACCESSORIES, ETC., UNDER THE ELECTRICAL CONTRACT. DOORS SHALL BE SIZED AS REQUIRED (MINIMUM 16-INCHES X 16-INCHES) WITH A FINISH TO MATCH THAT OF THE SURFACE IN WHICH IT IS INSTALLED. NO RACEWAYS SHALL BE INSTALLED WITHIN A SLAB ON GRADE. CONDUITS SHOWN BELOW A SLAB ON GRADE SHALL BE INSTALLED AT LEAST 4" BELOW THE BOTTOM OF THE SLAB ON GRADE.

RACEWAYS LARGER THAN 1" THAT ARE INDICATED TO BE INSTALLED BELOW A SLAB ON GRADE SHALL INSTALLED UNDER THE SLAB A MINIMUM OF ONE FOOT BELOW THE VAPOR BARRIER. WHERE RACEWAYS ARE GANGED, PROVIDE A MINIMUM OF 2 INCH SEPARATION. SEAL JOINTS ON ALL UNDER MINIMUM COVER REQUIREMENTS FOR ALL UNDERGROUND RACEWAY INSTALLED BEYOND THE BUILDING PERIMETER SHALL BE 36". PROVIDE TWO COATS OF ASPHALTUM OR BITUMASTIC PAINT TO ALL UNDERGROUND METALLIC CONDUITS WHICH ARE NOT ENCASED IN CONCRETE. IN ADDITION TO MINIMUM COVER REQUIREMENTS. WHERE RACEWAYS ARE INSTALLED UNDERGROUND ARE INDICATED TO 3E CONCRETE ENCASED. THE CONCRETE ENVELOPE SHALL PROVIDE NO LESS THAN 3 INCHES OF CONCRETE COVER ALL AROUND WITH A MINIMUM OF 3 INCH SEPARATION BETWEEN GANGED PROVIDE A MINIMUM 100 POUND TEST, NYLON PULL CORD IN ALL EMPTY CONDUITS. CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOOR SLABS SHALL BE SEALED WITH IMPERVIOUS, NON-COMBUSTIBLE MATERIALS IN SUCH A MANNER THAT THE ORIGINAL FIRE RATING IS RESTORED. CONDUIT PENETRATING BLOCK WALLS SHALL BE SLEEVED AND THEN SEALED. ALSO SEAL ALL WALL AND FLOOR PENETRATIONS LEFT ONCE CONDUIT TO BE DEMOLISHED HAS BEEN REMOVED. ALL PENETRATIONS SHALL BE SEALED USING UL LISTED METHODS XCEPT WHERE TERMINATING IN A THREADED HUB FITTING, ALL CONDUITS SHALL TERMINATE IN OUTLET BOXES, JUNCTION BOXES, PULL BOXES, CABINET, ETC., WITH ONE LOCKNUT INSTALLED OUTSIDE THE BOX AND ONE LOCKNUT AND A BUSHING INSIDE THE BOX. THE LOCKNUTS SHALL BE IIGHT TO MAKE BOTH A MECHANICAL AND ELECTRICAL CONNECTION. END OF CONDUITS SHALL E SUFFICIENTLY PLUGGED OR COVERED DURING CONSTRUCTION TO PREVENT CONCRETE, MORTAR. ETC. DUTLET BOXES SHALL BE STANDARD GALVANIZED SHEET STEEL WITH STAMPED KNOCKOUTS EXCEPT THAT CAST TYPE BOXES SHALL BE USED IN INTERIOR WET LOCATIONS (INCLUDING KITCHENS), ON THE EXTERIOR OF THE BUILDING, AND FOR EXPOSED WORK IN UNFINISHED AREAS. COVERS FOR CAST BOXES IN WET AND EXTERIOR LOCATIONS SHALL BE GASKETED. MULTI-GANG BOXES SHALL E OF SINGLE PIECE CONSTRUCTION. PULL BOXES SHALL BE CONSTRUCTED OF THE CODE GAUGE GALVANIZED SHEET METAL AND HAVE CONTINUOUS WELDED SEAMS. PULL BOXES SHALL COMPLY WITH NEC ARTICLE 370. WIRING: POWER WIRING SHALL BE HI-TECH, ROME, SOUTHWIRE, TRIANGLE OR APPROVED EQUAL. CONDUCTORS (OTHER THAN CONDUCTORS SERVING ISOLATION PANELS) SHALL BE COPPER, THW. OR IHHN/THWN. SOLID FOR CONDUCTORS SMALLER THAN #10 AWG AND STRANDED FOR LARGER SIZE CONDUCTORS. POWER FEEDERS ORIGINATING FROM THE DISTRIBUTION SECTION OF MAIN SWITCHGEAR SHALL BE TYPE XHHW OR THHN. ALL 120/208 VOLT ALTERNATING CURRENT (VAC) CONDUCTOR SHALL BE COLOR—CODED BLACK, RED, BLUE, WHITE AND GREEN FOR PHASES A, B, C, NEUTRAL, AND GROUND RESPECTIVELY. ALL 277/480 VOLT ALTERNATING CURRENT (VAC) CONDUCTORS SHALL E COLOR—CODED BROWN, ORANGE, YÉLLOW, GRAY AND GREEN FOR PHASÈS Á, B, C, NEUTRAL, ND GROUND RESPECTIVELY. LOW VOLTAGE CONDUCTORS SHALL BE SOLID OR STRANDED AS REQUIRED BY THE EQUIPMENT/SYSTEM MANUFACTURER. ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN RACEWAYS EXCEPT AS FURTHER SPECIFIED HEREIN OR ON THE DRAWINGS. CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN PANELBOARD SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS NOTED OTHERWISE ON THE DRAWINGS. IT SHALL NOT BE PERMISSIBLE TO COMBINE CIRCUIT HOMERUNS INTO A SINGLE RACEWAY UNLESS SPECIFICALLY SHOWN ON PLANS AND NO MORE THAN THREE PHASE CONDUCTORS IS PERMITTED TO BE INSTALLED IN A SINGLE RACEWAY. ONLY ONE CIRCUIT PER CONDUIT SHALL BE ALLOWED FOR ISOLATION CIRCUITS. ISOLATION CIRCUITS SHALL BE RUN IN A MANNER TO PROVIDE THE SHORTEST DISTANCE. OLTAGE DROP SHALL NOT EXCEED: 3% MAXIMUM ON BRANCH CIRCUITS AND 2% MAXIMUM OF LECTRICAL CONDUCTORS SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. ALL FAULTY CONDUCTORS SHALL BE REPLACED. CONNECT ALL EQUIPMENT REQUIRING LECTRICAL CONNECTIONS EXCEPT CONTROL CONDUCTORS FOR EQUIPMENT NOT PROVIDED UNDER DIVISION 16. CONTROL CONDUCTOR CONNECTIONS NOT PROVIDED UNDER DIVISION 16 SHALL BE DONE BY THE RESPECTIVE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS. MAKE ALI FINAL POWER CONNECTIONS TO EACH RESPECTIVE LOAD TO ACHIEVE FULL ENERGIZATION OF THE THIS SHALL INCLUDE WIRING THROUGH ANY INTEGRAL DISCONNECT DEVICE AND/OR CONTROL ABINET FURNISHED AS PART OF THE RESPECTIVE EQUIPMENT. COORDINATE THE POWER AND CONNECTION REQUIREMENTS FOR EQUIPMENT FURNISHED BY CONTRACTORS OF OTHER DIVISIONS. VERIFY THAT THE CIRCUITRY SHOWN FOR EACH LOAD MATCHES THE LOAD'S ACTUAL REQUIREMENTS SHOWN ON THE NAMEPLATE DATA OR MANUFACTURER'S PUBLISHED CRITERIA. INFORM THE ARCHITECT IF ADJUSTMENTS TO CONDUIT, WIRING, FUSE SIZES, ETC., ARE NEEDED TO MEET THE LOADS ACTUAL REQUIREMENTS. CHANGES TO EQUIPMENT DUE TO AN APPROVED SUBSTITUTION OR OTHERWISE NECESSARY TO SUIT A MANUFACTURERS NEEDS SHALL INCLUDE THE COST BY THE MANUFACTURER FOR MAKING ELECTRICAL CHANGES. THE CONDUIT OF THE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITH EVERY CIRCUIT AND IN EVERY CONDUIT. TH CONDUIT SYSTEM AND NEUTRAL (GROUNDED CONDUCTOR) SHALL BE BONDED TOGETHER ONLY AT THE SERVICE ENTRANCE EQUIPMENT. GROUNDING AT THE SERVICE ENTRANCE SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250. NO CONDUIT SHALL CONTAIN MORE THAN THREE PHASE DEVICES: WIRING DEVICES SHALL BE HUBBELL, PASS & SEYMOUR OR ARROW-HART.

FOR THEIR INTENDED PURPOSE.

SECTION 260000 - ELECTRICAL SPECIFICATIONS DUPLEX RECEPTACLES SHALL BE OF THE GROUNDING TYPE, ARRANGED FOR BACK AND SIDE WIRING WITH SPRING-BACKED LINE TERMINALS AND SEPARATE SINGLE OR DOUBLE GROUNDING TERMINALS. DUPLEX RECEPTACLES SHALL BE RATED FOR 20 AMP 125 VOLT OPERATION AND THE FACE CHEDULE 80 POLYVINYL CHLORIDE (PVC) LISTED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS UNLESS NOTED OTHERWISE AND SHALL CONFORM TO NEMA TC2 AND UL 651. ALL COMPONENTS OF THE RNC SYSTEM SHALL BE FURNISHED FROM THE SAME MANUFACTURER AND USED SPECIFICALLY CONFIGURATION SHALL CONFORM TO NEMA STANDARD NO. WDI.101968. A SEPARATE GROUNDING SCREW TERMINAL SHALL BE PROVIDED WITH A DIRECT CONNECTION MADE TO A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR WHICH IS PART OF THE EQUIPMENT GROUNDING SYSTEM. SELF EMT FITTINGS SHALL BE GALVANIZED, STEEL COMPRESSION TYPE. EMT CONNECTORS SHALL HAVE INSULATED THROATS WHICH ARE AN INTEGRAL PART OF THE CONNECTOR. USE OF INSULATING GROUNDING OR AUTOMATIC GROUNDING TYPE RECEPTACLES ARE NOT ACCEPTABLE. SLEEVES IS NOT PERMITTED. GRS OR IMC CONDUIT ENTERING A BOX OR ENCLOSURE SHALL BE GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLES SHALL BE SELF-CONTAINED, NEMA 5-20R, HEAVY DUTY, SPECIFICATION GRADE WITH FEED-THRU FEATURE TO PROTECT DOWNSTREAM DEVICES ON THE SAME CIRCUIT. SURGE SUPPRESSOR RECEPTACLES SHALL BE PERMANENTLY TERMINATED WITH A BUSHING. INSTALL BOND BUSHINGS WHERE REQUIRED BY THE NEC. FLEXIE CONDUIT CONNECTORS SHALL BE T&B NYLON INSULATED "TITE-BITE". INSTALL FLEXIBLE METAL CONDUIT FOR ALL FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND TO OTHER EQUIPMENT, CONNECTED. FLUSH MOUNTED TYPE AND PROVIDE PROTECTION OF NOT LESS THAN 80 JOULES IN ALL THREE MODES: HOT TO NEUTRAL, NEUTRAL TO GROUND, AND HOT TO GROUND. EACH MODE SHALL UTILIZE A SEPARATE MOV TO ACCOMPLISH PROTECTION AND AN INTEGRAL INDICATING LIGHT SHALL BE INCLUDED IN EACH DEVICE. POWER EQUIPMENT: POWER EQUIPMENT SHALL BE SQUARE D, GENERAL ELECTRIC, SIEMENS, CHALLENGER OR WESTINGHOUSE. SAFETY SWITCHES SHALL BE HEAVY DUTY, QUICK-MAKE, QUICK-BREAK, TYPES WITH RATINGS AS DENOTED ON THE DRAWINGS. PROVIDE GROUND BUS, SOLID NEUTRAL (WHEN REQUIRED), CLASS RK-5 DUAL ELEMENT, TIME DELAY FUSES, AND NEMA RATED ENCLOSURE. TVSS: PROVIDE ADVANCED PROTECTION TECHNOLOGY, CURRENT TECHNOLOGY, LIEBERT TVSS SHALL BE UL1449 LISTED. ALL ENCAPSULATED SUPPRESSORS SHALL USE AN ENCAPSULANT THAT IS UL LISTED AND HOLDS A 94-V2 FIRE RETARDANT RATING. NO EPOXY COMPOUNDS ALLOWED. VISIBLE INDICATION OF PROPER SUPPRESSOR CONNECTION AND OPERATION SHALL BE FOR 120VAC SUPPRESSORS, TVSS SHALL CONSIST OF THREE STAGE HYBRID DESIGN; FIRST STAGE MOV, SECOND STAGE INDUCTOR, THIRD STAGE SILICON AVALANCHE DIODE. SUPPRESSORS SHALL BE INTERNALLY FUSED. MAX. INPULSE CURRENT RATING OF 25KA PER MODE. TVSS SHALL BE ABLE O PROTECT AGAINST AND SURVIVE 500 CATEGORY B3 TRANSIENTS. MAX. CLAMPING VOLTAGE LESS THAN 350V PEAK. SUPPRESSORS SHALL HAVE 2 YEAR WARRANTY. PROVIDE LIGHTING FIXTURES AS SCHEDULED ON THE DRAWINGS OF SIZES, TYPES AND RATINGS INDICATED: COMPLETE WITH BUT NOT NECESSARILY LIMITED TO. HOUSING, LAMPS, LAMP HOLDERS, REFLECTORS, BALLASTS, STARTERS, WIRING, MOUNTING HARDWARF, POLES, AND POLE BASES. CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE COMPLETE CATALOG NUMBERS AND TO PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION AS IMPLIED BY THE ACCOMPANYING DESCRIPTION OF THE LIGHT FIXTURE, THE DEMONSTRATED USE ON THE DRAWINGS, AND THE SPECIFICATIONS CONTAINED HEREIN. ALL LIGHTING FIXTURES SHALL BE UL LABELED. THE LABEL SHALL BE PERMANENTLY ATTACHED TO THE FIXTURE FRAME, HOUSING OR OTHER NON-RENEWABLE COMPONENT. PROVIDE FIXTURES AND/OR FIXTURE OUTLET BOXES WITH HANGERS TO PROPERLY SUPPORT FIXTURE WEIGHT. FASTEN LIGHT FIXTURES AND LIGHT FIXTURE SUPPORTS SECURELY TO BUILDING STRUCTURAL MEMBERS. IS NOT PERMISSIBLE TO RELY ON SUSPENDED CEILINGS AS THE SOLE MEANS OF SUPPORT FOR LIGHT FIXTURES. REFER TO ARCHITECTURAL CEILING PLANS FOR CEILING TYPE AND PROVIDE LIGHT FIXTURES WHICH ARE COMPATIBLE WITH THE SURFACE OR CEILING IN OR ON WHICH IT WILL BE INSTALLED. DO NOT DEPEND ON CATALOG NUMBERS FOR SUCH INFORMATION. VOLTAGES OF ALL LIGHT FIXTURES SHALL BE DETERMINED BY THE CIRCUIT TO WHICH EACH FIXTURE IS CONNECTED. SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS. PROVIDE CONCRETE POLE FOUNDATIONS AS SHOWN ON PLANS. WHERE NOT SHOWN ON PLANS, PROVIDE FOUNDATIONS AS RECOMMENDED BY THE MANUFACTUERER. FOUNDATIONS SHALL BE DESIGNED FOR SUPPORT OF POLE AND LIGHT FIXTURES WHEN CONSIDERING THE SPECIFIED WIND LOADING. LIGHT POLES SHALL BE CONSTRUCTED FOR A WIND LOAD OF 100 MILES PER HOUR FOR HE EPA OF THE GIVEN LUMINAIRE ASSEMBLY AND CONSIDERING THE WEIGHT OF THE FIXTURE(S) AND THE MOUNTING HARDWARE. PROVIDE STRUCTURAL ANALYSIS AS REQUIRED IN AASHTO LTS-4-M. IN ADDITION TO THE EQUIPMENT GROUND CONDUCTOR, GROUND ALL METAL POLES SUPPORTING OUTDOOR LIGHT FIXTURES, ANTENNAS, AND SIMILAR EQUIPMENT TO A DRIVEN GROUND ROD OR OTHER SUITABLE ELECTRODE. INSTALL GROUNDING CONDUCTOR PIGTAIL IN THE BASE FOR CONNECTING LUMINAIRE TO GROUNDING SYSTEM. TELECOMMUNICATIONS SYSTEMS: PROVIDE A SYSTEM OF EMPTY CONDUITS AND SYSTEM OUTLET BOXES TO ACCOMMODATE INSTALLATION OF THE OWNER'S TELECOMMUNICATIONS SYSTEM. THE RACEWAY SYSTEM SHALL COMPLY WITH EIA/TIA 568 & 569 STANDARDS. OTHER REQUIREMENTS: PROVIDE ENGRAVED, PHENOLIC NAMEPLATES, FOR EQUIPMENT. NAMEPLATES SHALL BE PERMANENTLY ATTACHED TO THE EQUIPMENT USING METAL RIVETS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY MISCELLANEOUS METAL OR WOOD SUPPORTS, FASTENERS, MOUNTS, HANGERS, SIDE BRACES, ETC., WHICH MAY BE REQUIRED TO SECURELY ANCHOR AND SUPPORT ELECTRICAL EQUIPMENT SPECIFICATION 260548 VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS FOR ADDITIONAL REQUIREMENTS. TESTING: THE CONTRACTOR SHALL TEST ALL 'LIFE SAFETY' EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION OF THE TEST TO THE ENGINEER STATING THE TEST PERFORMED, THE RESULTS OF THE TEST, AND THE DATE OF THE TEST. 'LIFE SAFETY' EQUIPMENT AND SYSTEMS ARE SPECIFIED IN NFPA 101.

EXTERIOR LIGHT FIXTURE SCHEDULE							
DESCRIPTION	MANUFACTURER	LAMPS	CONTROLS	REMARKS	WATTS		
EXISTING TWIN HEAD POLE MOUNTED SITE LIGHT	-	-	-	HALF SHADING INIDICATES FIXTURE CONNECTED TO EMERGENCY GENERATOR	_		
EXISTING BOLLARD	-	_	-	HALF SHADING INIDICATES FIXTURE CONNECTED TO EMERGENCY GENERATOR	_		
NEW POLE MOUNTED TWIN HEAD LIGHT. LIGHT FIXTURE SHALL MATCH EXISTING POLE LIGHTS IN COURTYARD. SEE DETAIL #6 & 7 ON SITE SOLUTIONS LANDSCAPING PLAN SHEET H2.02 FOR ADDITIONAL FIXTURE & POLE DETAILS. BLACK FINISH.	AMERLUX CBR41-1-24/D154TS20R TWIN HEAD	150W MH		HALF SHADING INIDICATES FIXTURE CONNECTED TO EMERGENCY GENERATOR	_		
	DESCRIPTION EXISTING TWIN HEAD POLE MOUNTED SITE LIGHT EXISTING BOLLARD NEW POLE MOUNTED TWIN HEAD LIGHT. LIGHT FIXTURE SHALL MATCH EXISTING POLE LIGHTS IN COURTYARD. SEE DETAIL #6 & 7 ON SITE	EXISTING TWIN HEAD POLE MOUNTED SITE LIGHT EXISTING BOLLARD NEW POLE MOUNTED TWIN HEAD LIGHT. LIGHT FIXTURE SHALL MATCH EXISTING POLE LIGHTS IN COURTYARD. SEE DETAIL #6 & 7 ON SITE AMERILUX CBR41-1-24/D154TS20R	EXISTING TWIN HEAD POLE MOUNTED SITE LIGHT EXISTING BOLLARD NEW POLE MOUNTED TWIN HEAD LIGHT. LIGHT FIXTURE SHALL MATCH EXISTING POLE LIGHTS IN COURTYARD. SEE DETAIL #6 & 7 ON SITE AMERILUX CBR41-1-24/D154TS20R 150W ML	DESCRIPTION MANUFACTURER LAMPS CONTROLS EXISTING TWIN HEAD POLE MOUNTED SITE LIGHT EXISTING BOLLARD LAMPS CONTROLS	DESCRIPTION MANUFACTURER LAMPS CONTROLS REMARKS EXISTING TWIN HEAD POLE MOUNTED SITE LIGHT EXISTING BOLLARD EXISTING BOLLARD NEW POLE MOUNTED TWIN HEAD LIGHT. LIGHT FIXTURE SHALL MATCH EXISTING POLE LIGHTS IN COURTYARD. SEE DETAIL #6 & 7 ON SITE AMERILUX CBR41-1-24/D154TS20R AMERILUX CBR41-1-24/D154TS20R 150W MH PARKING CARACE TIMEGLOCK FINERGENCY GENERATOR FINERGENCY GENERATOR		

CONFORM TO NEMA STANDARD NO. WDI-101968.

ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. THE COLOR SHALL BE SELECTED BY THE ARCHITECT, FROM THE MANUFACTURER'S STANDARD COLORS DURING SHOP DRAWING REVIEW.

OLORS SHALL INCLUDE BROWN, IVORY, GRAY AND WHITE AS A MINIMUM. ALL DEVICES CONNECTED

TO THE EMERGENCY POWER SYSTEM SHALL BE RED. DEVICE PLATES FOR FLUSH MOUNTED DEVICES SHALL BE STANDARD SIZE, TYPE 302, SATIN STAINLESS STEEL TYPES EQUAL TO HUBBELL'S "S"

SERIES. PROVIDE OVERSIZE PLATES FOR DEVICES INSTALLED IN CONCRETE BLOCK, BRICK OR STONE

RECEPTACLES, PLUGS, AND PLUG CONNECTORS SHALL BE HEAVY—DUTY, COMMERCIAL, SPECIFICATION GRADE. THE BODY SHALL BE CONSTRUCTED OF THERMOPLASTIC (NYLON, LEXAN) MATERIAL.

RECEPTACLES SHALL BE NON—INTERCHANGEABLE TYPES OF STANDÀRD NÉMA CONFIGURATION AS INDICATED ON THE DRAWINGS. COMPLY WITH THE RESPECTIVE ANSI C73 SERIES STANDARD FOR THE NEMA CONFIGURATION USED. RECEPTACLES SHALL BE UL LISTED AND LABELED AND SHALL

1. ALL INTERIOR FIXTURES SHALL BE 3500K AND ALL EXTERIOR FIXTURES SHALL BE 4000K UNLESS OTHERWISE NOTES. 2. ALL FLUORESCENT BALLASTS AND LAMPS SHALL BE LISTED ON CEE1.ORG APPROVED LIST AND ALL LED FIXTURES SHALL BE DESIGN LIGHTING CONSORTIUM OR ENERGY STAR LISTED.



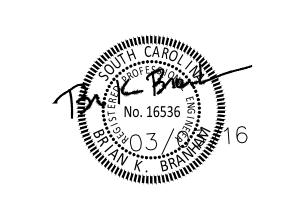
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5	■ SUBMITTALS (BY LETTER)/REVISIONS (BY NUMBER)					
	NO.	DATE	DESCRIPTION			
		03.03.16	PERMIT DOCUMENTS			
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■ PROJECT NUMBER: 16018.00

MARCH 3, 2016

CAROLINA

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INNOVATION CENTER

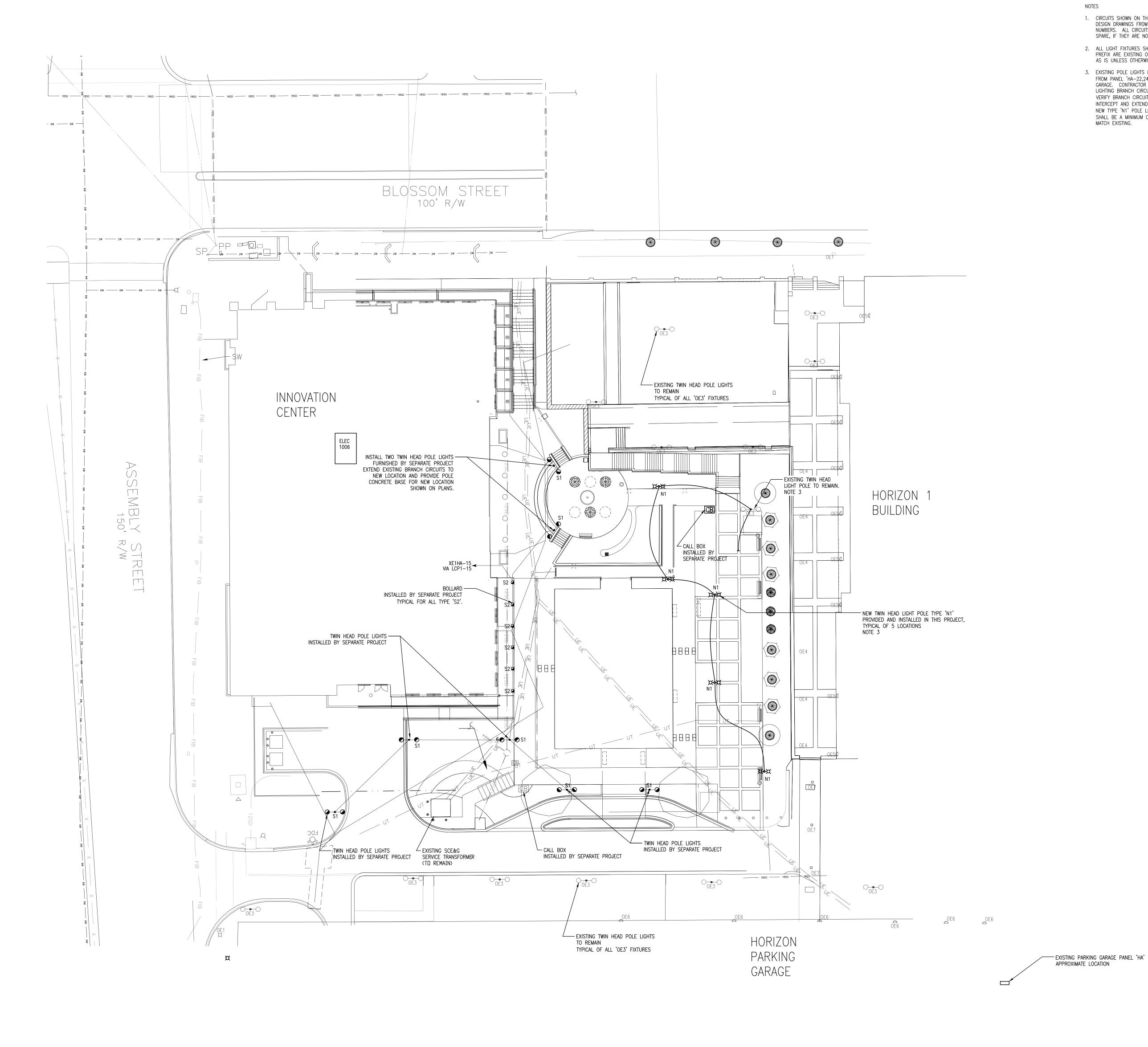
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ELECTRICAL SYMBOLS & LEGENDS



ELECTRICAL SITE PLAN

1. CIRCUITS SHOWN ON THIS DRAWING, SERVING DEVICES, WERE DETERMINED FROM DESIGN DRAWINGS FROM ORIGINAL BUILDING. FIELD VERIFY EXACT CIRCUIT NUMBERS. ALL CIRCUITS REMOVED DURING DEMOLITION SHALL BE MARKED AS SPARE, IF THEY ARE NOT REUSED FOR RENOVATION.

2. ALL LIGHT FIXTURES SHOWN ON THIS SHEET LABELED WITH AN 'OE' OR 'S' PREFIX ARE EXISTING OR FURNISHED BY ANOTHER PROJECT AND SHALL REMAIN AS IS UNLESS OTHERWISE NOTED.

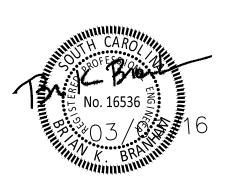
3. EXISTING POLE LIGHTS NEAR HORIZON 1 AND THE PARKING GARAGE ARE SERVED FROM PANEL 'HA-22,24,26' THRU A TIMECLOCK IN THE HORIZON PARKING GARAGE. CONTRACTOR SHALL FIELD VERIFY EXISTING LOAD OF EXISTING SITE LIGHTING BRANCH CIRCUITS WHEN LIGHTS ARE OPERATING. CONTRACTOR SHALL VERIFY BRANCH CIRCUIT(S) WILL ACCOMMODATE LOAD OF NEW LIGHT FIXTURES. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT(S) AS REQUIRED TO SERVE NEW TYPE 'N1' POLE LIGHTS AS INDICATED ON PLANS. EACH BRANCH CIRCUIT SHALL BE A MINIMUM OF A 3/4" CONDUIT WITH (2) #6 & (1) #10 GROUND TO MATCH EXISTING. ARCHITECTURE ENGINEERING INTERIORS

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☐ NOT APPROVED FOR CONSTRUCTION ■ PROJECT NUMBER: 16018.00 ■ DATE: MARCH 3, 2016

APPROVED FOR CONSTRUCTION

UNIVERSITY OF SOUTH CAROLINA

INNOVATION CENTER 550 ASSEMBLY STREET, COLUMBIA, SC 29201

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ELECTRICAL SITE PLAN

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