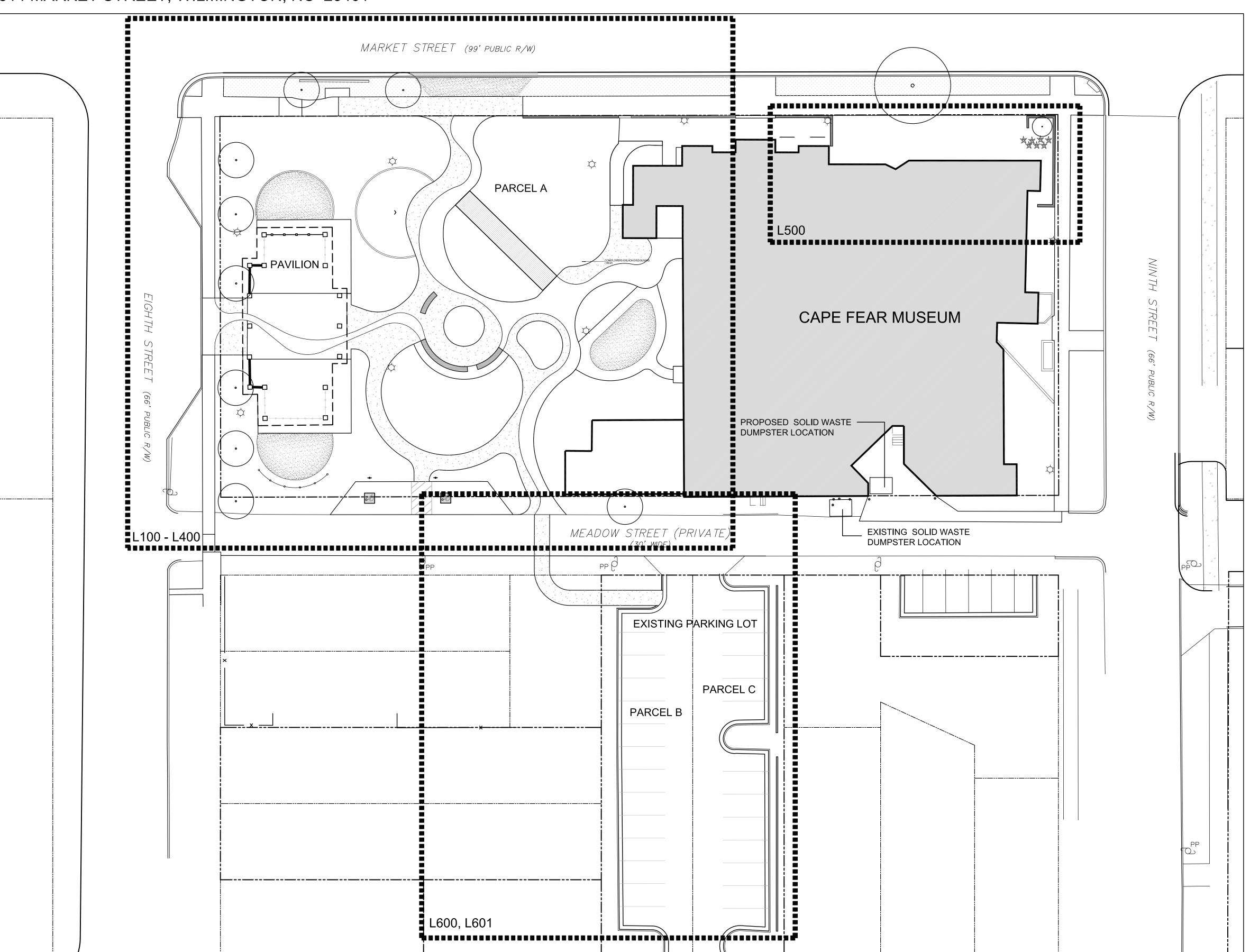
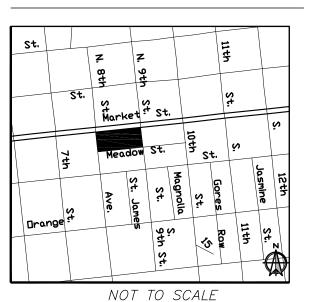
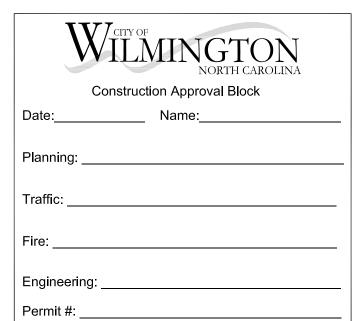
FEBRUARY 3, 2015

NEW HANOVER COUNTY 814 MARKET STREET, WILMINGTON, NC 28401



VICINITY MAP





DRAWING INDEX:

SURVEY GENERAL NOTES G100 L100 DEMOLITION PLAN L200 LAYOUT PLAN L201 RIVER PAVING LAYOUT PLAN GRADING / EROSION CONTROL PLAN L300 L400 PLANTING PLAN L500 MARKET STREET FACADE L600 ADJACENT PARKING LOT DEMOLITION L601 ADJACENT PARKING LOT LAYOUT D100 D101 DETAILS

D101 DETAILS
D102 DETAILS
D103 BOARDWALK DETAILS

D104 DETAILS

SITE DATA:

Property Owner: New Hanover County Parcel Address: 814 Market Street

Developer: New Hanover County / Cape Fear Museum

New Hanover County PIN: RO4817-040-001-000

Zoning: See S100

Acreage of Parcel A: 1.13 acres - Zoned Urban Mixed Use (UMX)

Parcel A ID #: 61321 / r04817-040-001-000
Acreage of Parcel B: .12 acres - Zoned Office & Institutional Special Use District O&1-1 (SD)

Parcel B ID #: 68126 / r4817-041-007-000
Acreage of Parcel C: .12 acres - Zoned Office & Institutional Special Use District O&1-1 (SD)

Parcel C ID #: 68188 / R04817-041-008-000

Total Acreage within project boundary: 1.37 acres
Property is located within National Register Historic District Overlay

Total Building Size:43,469 SF
Basement - 12,243 SF
First Floor - 17,165 SF
Second Floor - 12,243 SF

Building Setbacks:
Required: 5' Mimimum - 10' Maximim

Proposed: Existing Museum - Market Street 8', Ninth Street 6'

Pavilion - Eighth Street 10'

Building Heights: Existing Museum: 36', Existing Pavilion: 25'

Pre-development Impervious Surface: 35,307.0 SF / 0.81 acres
Post-development Impervious Surface: 25,381 SF / 0.58 acres
Impervious Surface Reduction: 9,926.0 SF / 0.23 acres
Newly Constructed Impervious Surface within project boundary: 8,400 SF
Impervious Surface includes concrete, asphalt, pavers, oyster shell, walks, & curbing
Newly Constructed Impervious Surface outside project boundary (In R/W): 1,105 SF
Building Lot Coverage: 40.5% Existing (Parcel A only, Includes Museum & Pavilion)

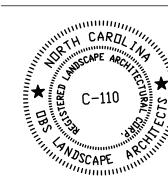
Off Street Parking - No parking is required for UMX zoning Parking Provided:

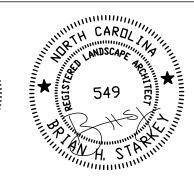
Meadow Street: 8 spaces (2 are parallel handicap parking spaces)

Meadow Street Lot: 28 spaces
Ninth Street Lot: 24 spaces

CAMA Land Use: Urban

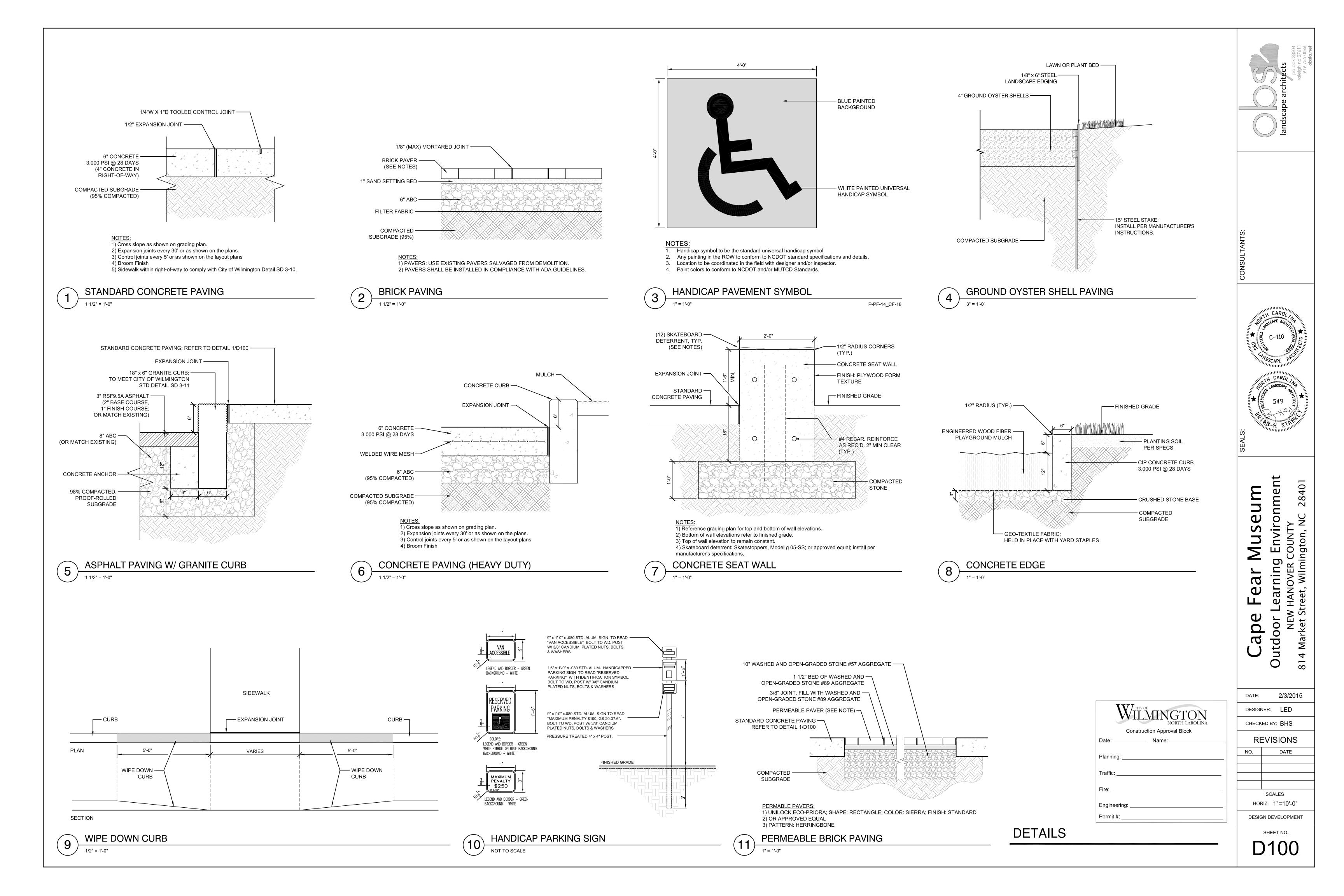
LANDSCAPE ARCHITECT:

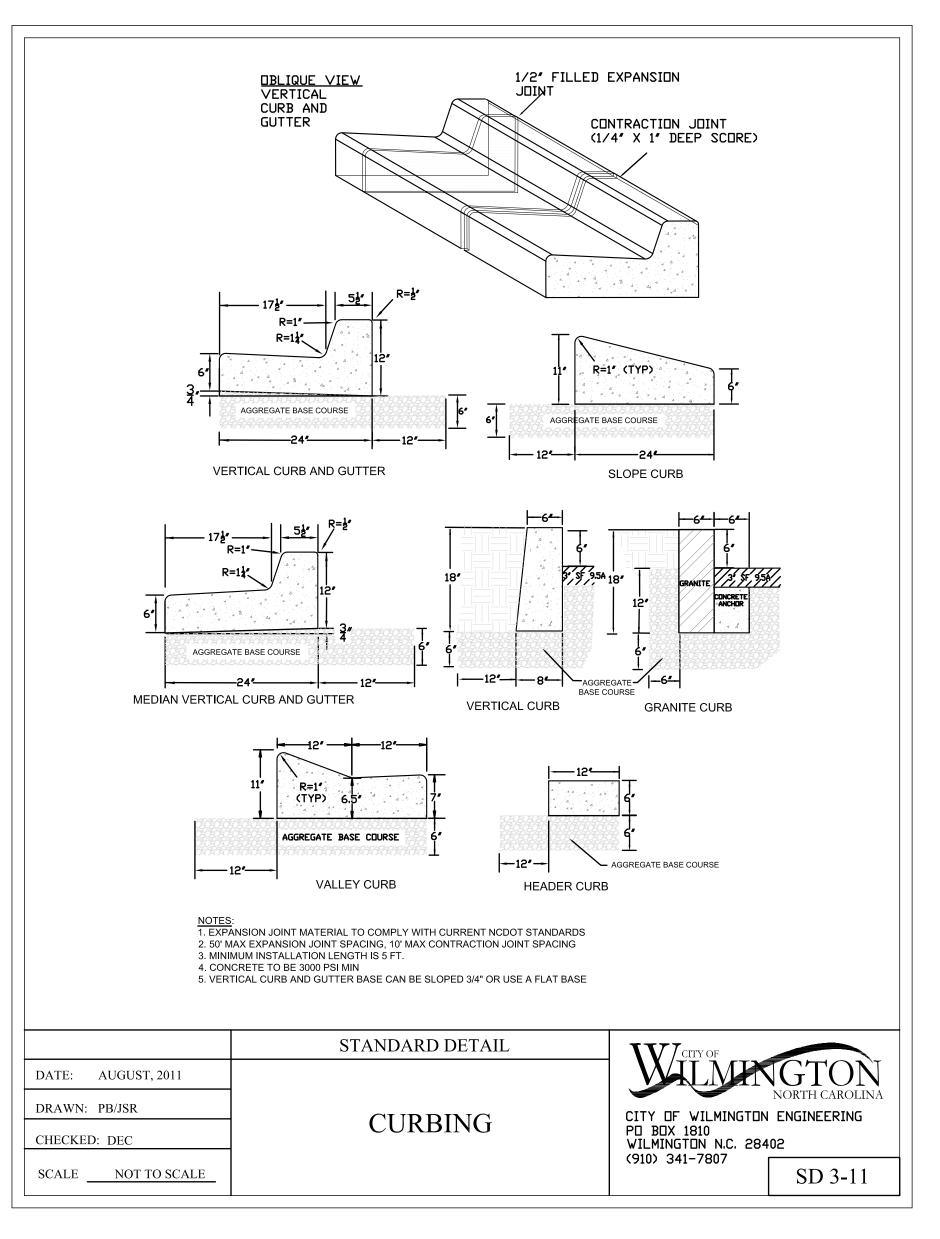


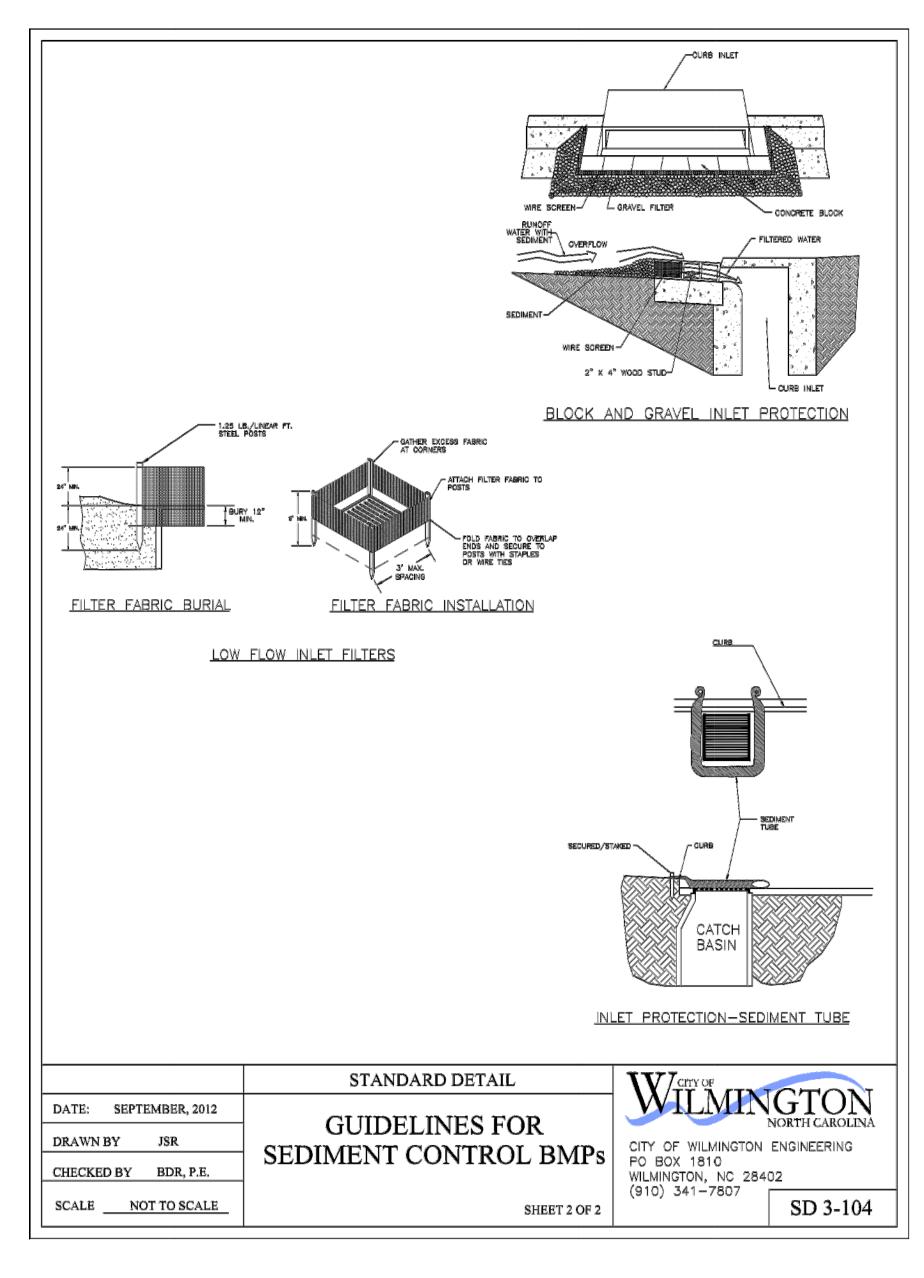


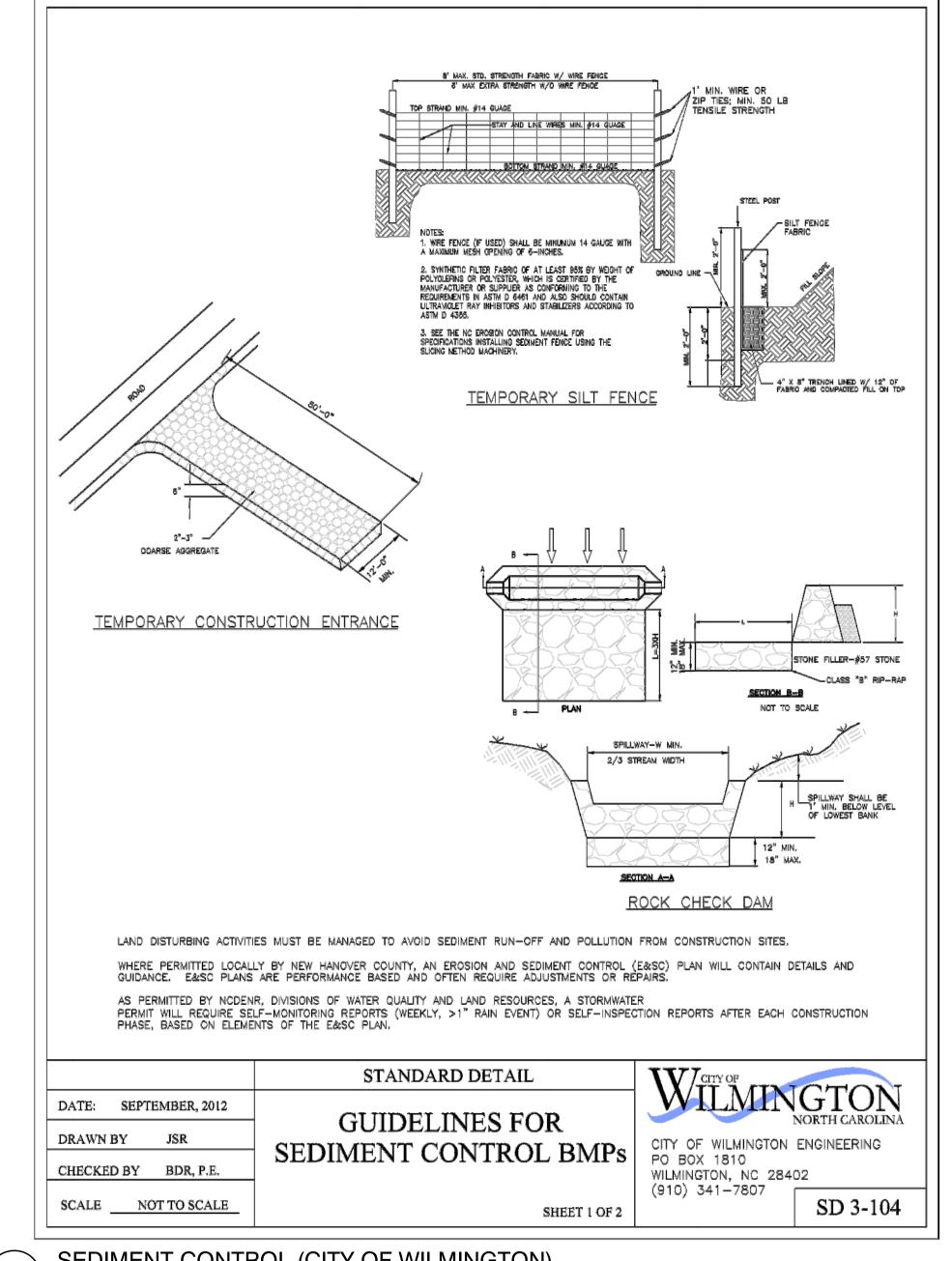


919-755-0046 **obsla.net**







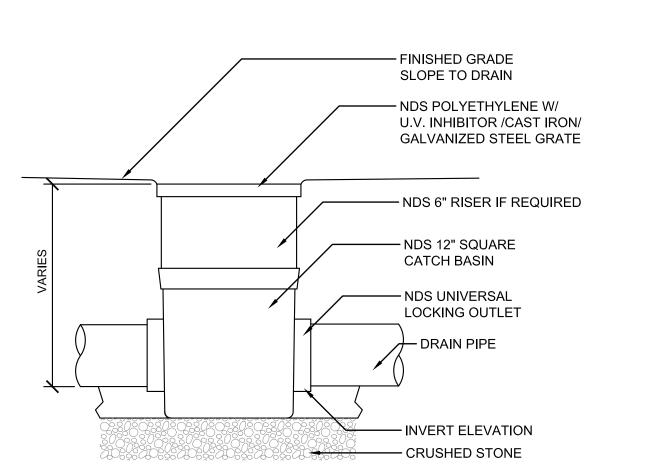


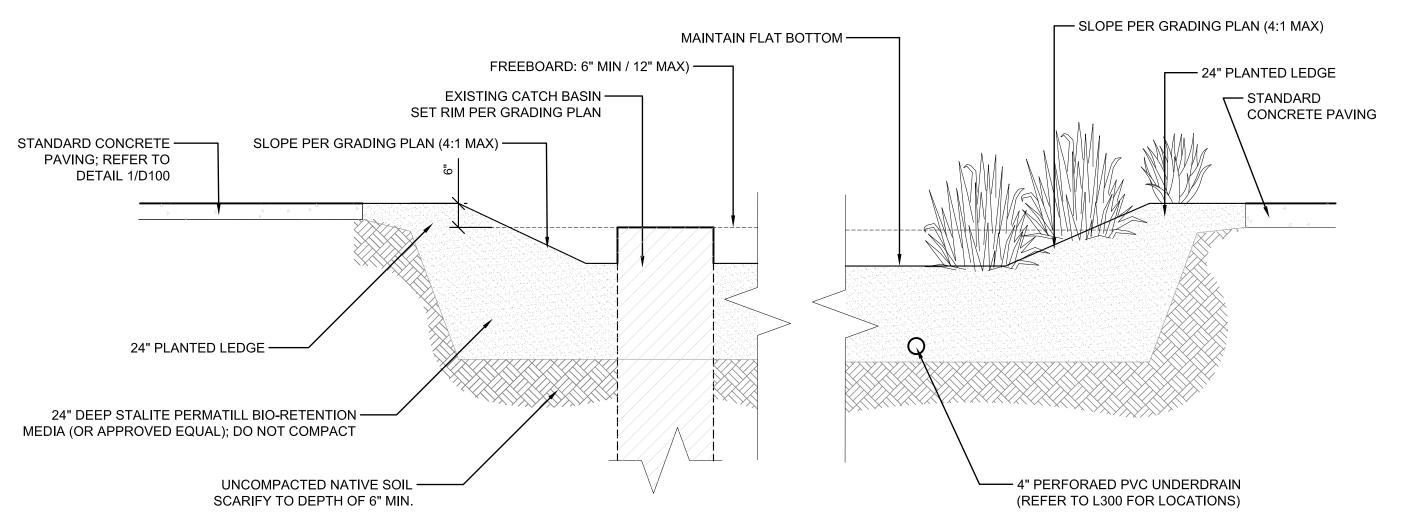


12" HDP INLET (IN LAWN)

INLET PROTECTION (CITY OF WILMINGTON) NOT TO SCALE

SEDIMENT CONTROL (CITY OF WILMINGTON) 3 NOT TO SCALE





Stalite PermaTill Bio-Retention Media (Rain Garden) 1) Stalite lightweight sand bio-retention root zone

- media a. Recycled Stalite expanded slate MS-16 lightweight sand 85-88% sand fraction
- b. Organic matter: Pine bark fines screened to minus 1/2" and/or approved compost determined by phosphorous restrictions
- c. Phosphorous index of the blended media must fall between 10-30ppm.

2) Root zone Media Blend

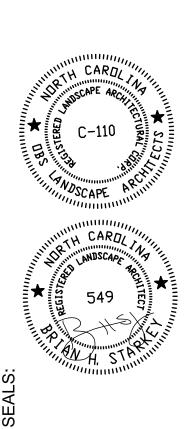
- a. Filter Layer: 100% recycled expanded slate fines 4" depth
- b. Root zone media: 90% Statlite recycled expanded slate lightweight sand gradation MS-16, 10% organic matter. c. Mechanically mix the expanded slate fines
- with pine bark fine/compost until a uniform distribution of the components is achieved.

| () Contractor to provide soil analysis and sample for | |
|---|--|
| ipproval prior to installation. | |

WILMINGTON Construction Approval Block Engineering

RAIN GARDEN

DETAILS



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28401

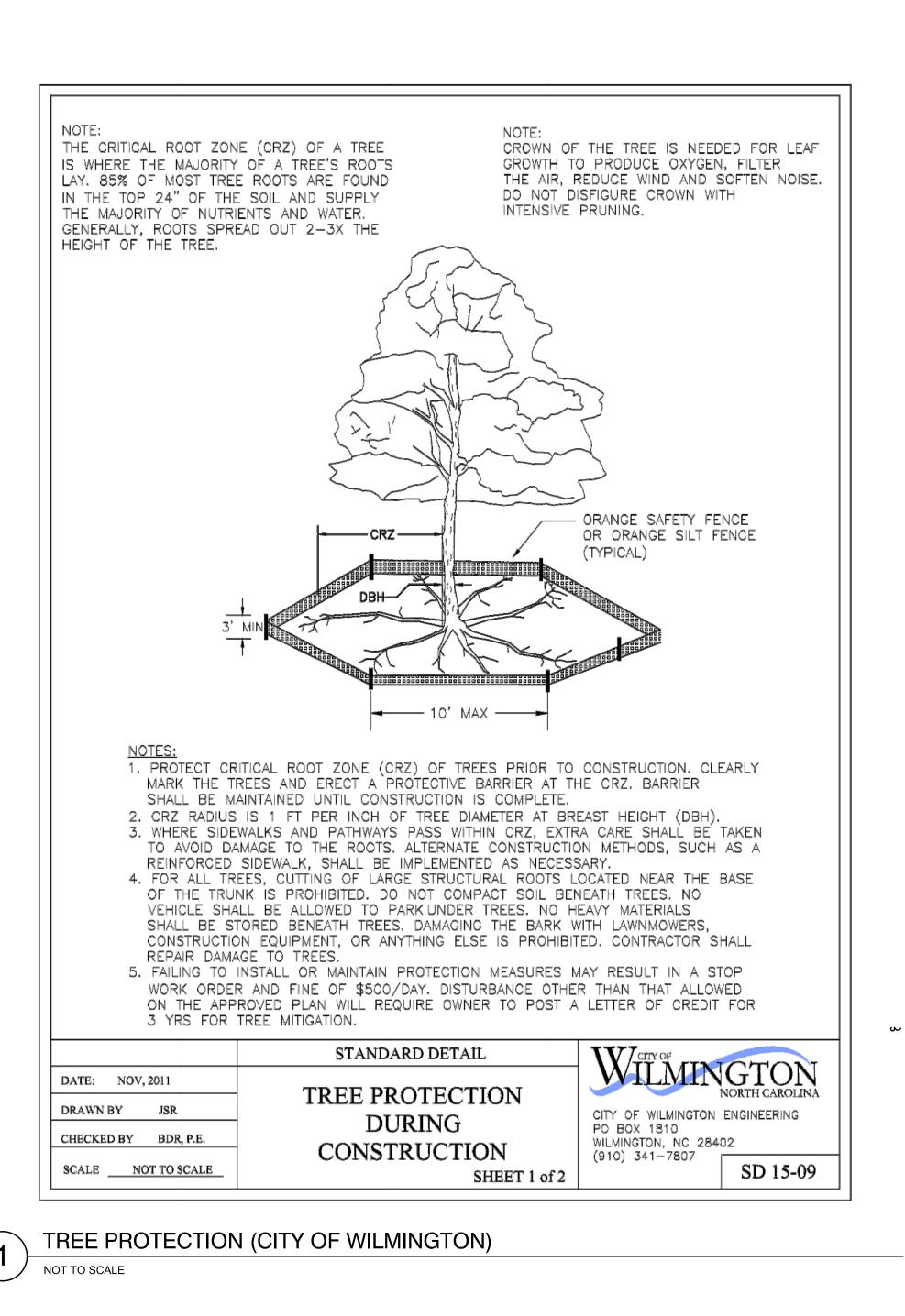
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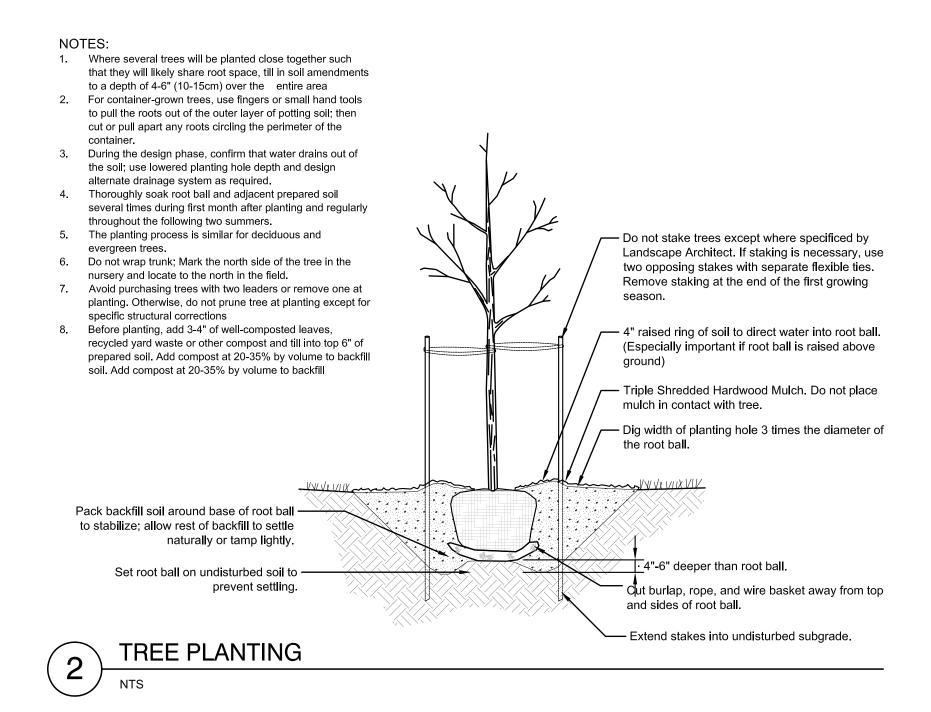
8

2/3/2015 DATE DESIGNER: LED CHECKED BY: BHS **REVISIONS** DATE

> SCALES HORIZ: 1"=10'-0" DESIGN DEVELOPMENT

SHEET NO.



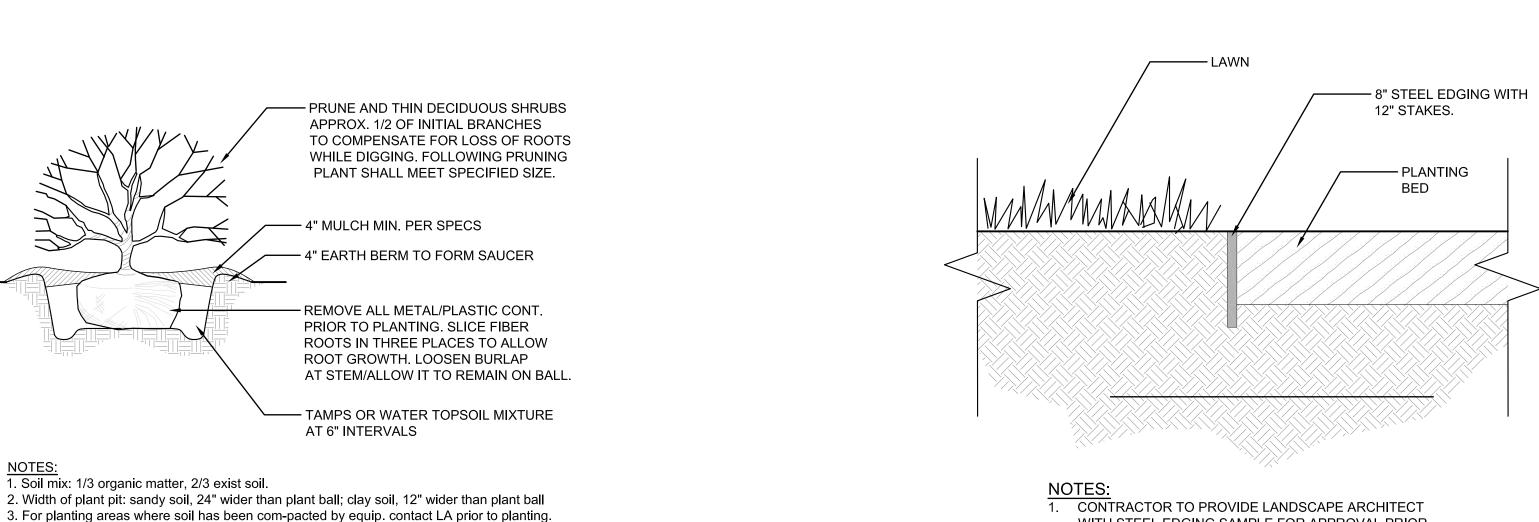


3. For planting areas where soil has been com-pacted by equip. contact LA prior to planting.

4. For camellias, rhodos, azaleas, and laurels: soil mix, 2/3 organic and 1/3 existing soil

5. Shrub shall bear same relationship to grade as it did prior to digging.

SHRUB PLANTING





TO INSTALLATION.

WITH STEEL EDGING SAMPLE FOR APPROVAL PRIOR

TREE SHALL HAVE SAME RELATION

TO GRADE AS IT HAD IN NURSERY

RUBBER HOSES 2/3 UP TREE —

GUY WIRES W/ TURNBUCKLES; -

NEVER CUT LEADER -

(2) PER TREE

3" MULCH —

EVERGREEN PLANTING

(2) STAKES PER TREE —

ROTOTILLED NATIVE SOIL; -

SAUCER AROUND PIT

CUT AND REMOVE BURLAP -

NOT TO SCALE

FROM TOP 1/3 OF ROOT BALL

AMEND PER SPECS

SCARIFY SUBGRADE -

- CYPRESS TREE TRUNK WITHOUT BARK 8'-10' TALL; 6-8" CALIPER CONCRETE FOOTING 3000 PSI @ 28 DAYS COMPACTED SUBGRADE

> NOTES:
>
> 1. TREE PLACEMENT TO BE VERIFIED IN FIELD BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

> > PLAYGROUND SURFACING



WILMINGTON Construction Approval Block

DETAILS

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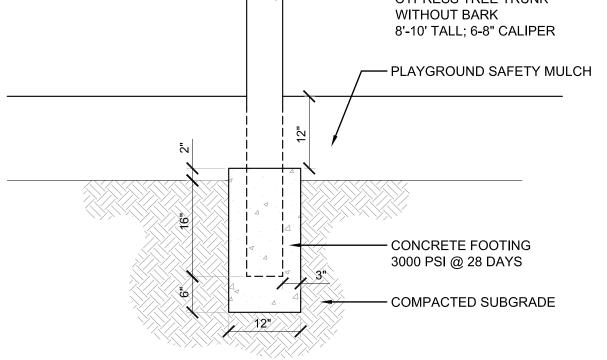
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DATE: 2/3/2015 DESIGNER: LED CHECKED BY: BHS REVISIONS SCALES

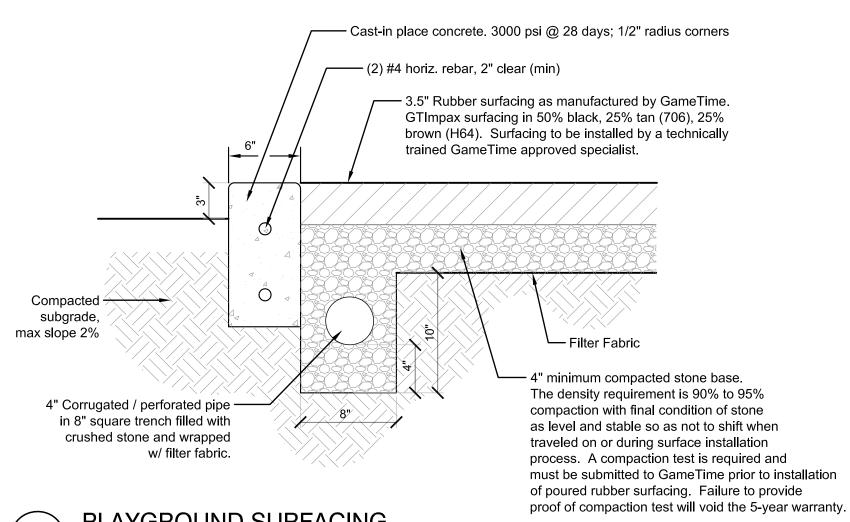
DESIGN DEVELOPMENT

HORIZ: 1"=10'-0"

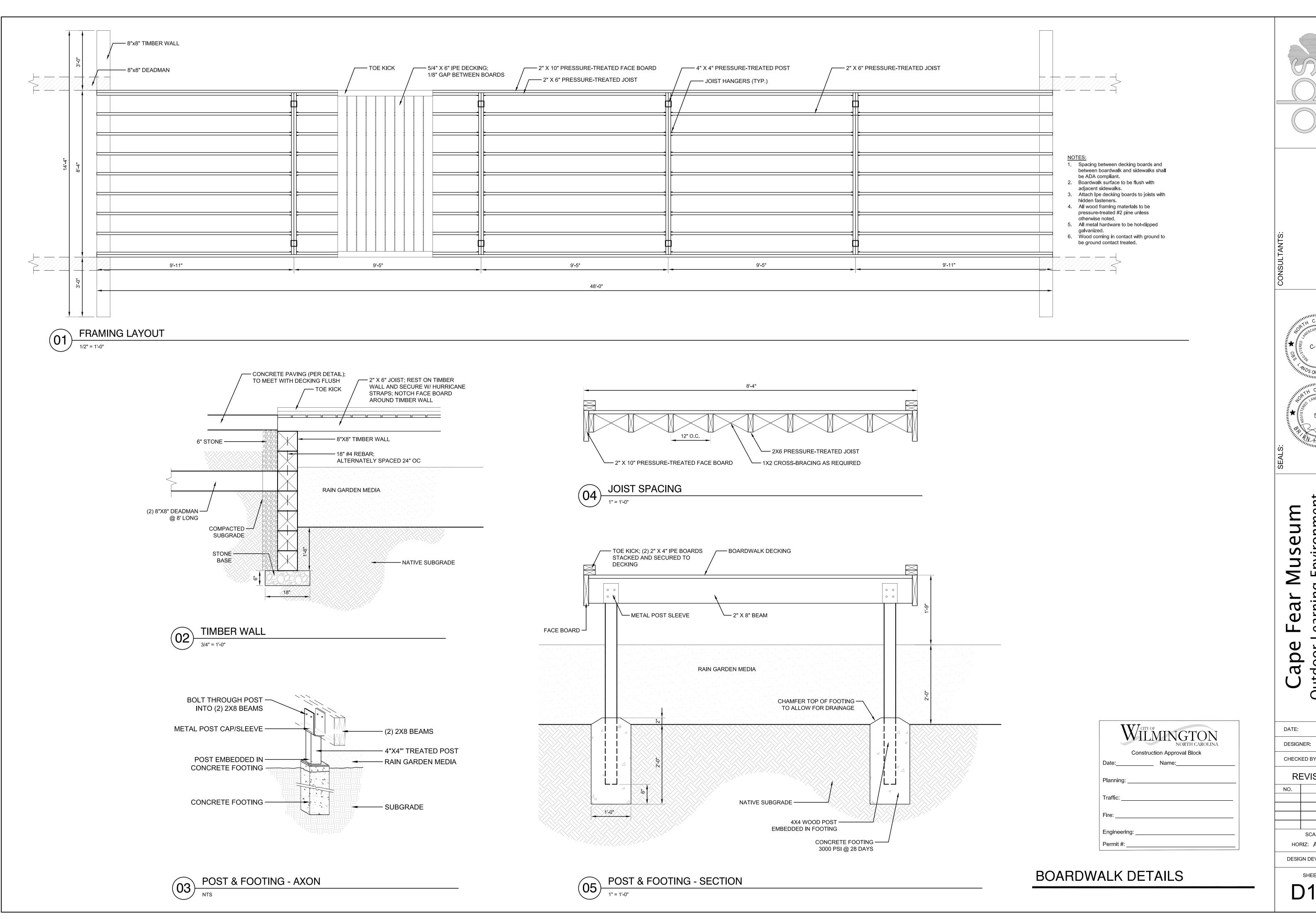
SHEET NO. D102



CYPRESS TREES P-PF-14_CF-28



PAVILION FENCING



Outdoor Learning Environment
NEW HANOVER COUNTY
814 Market Street, Wilmington, NC 28401 Outdoor

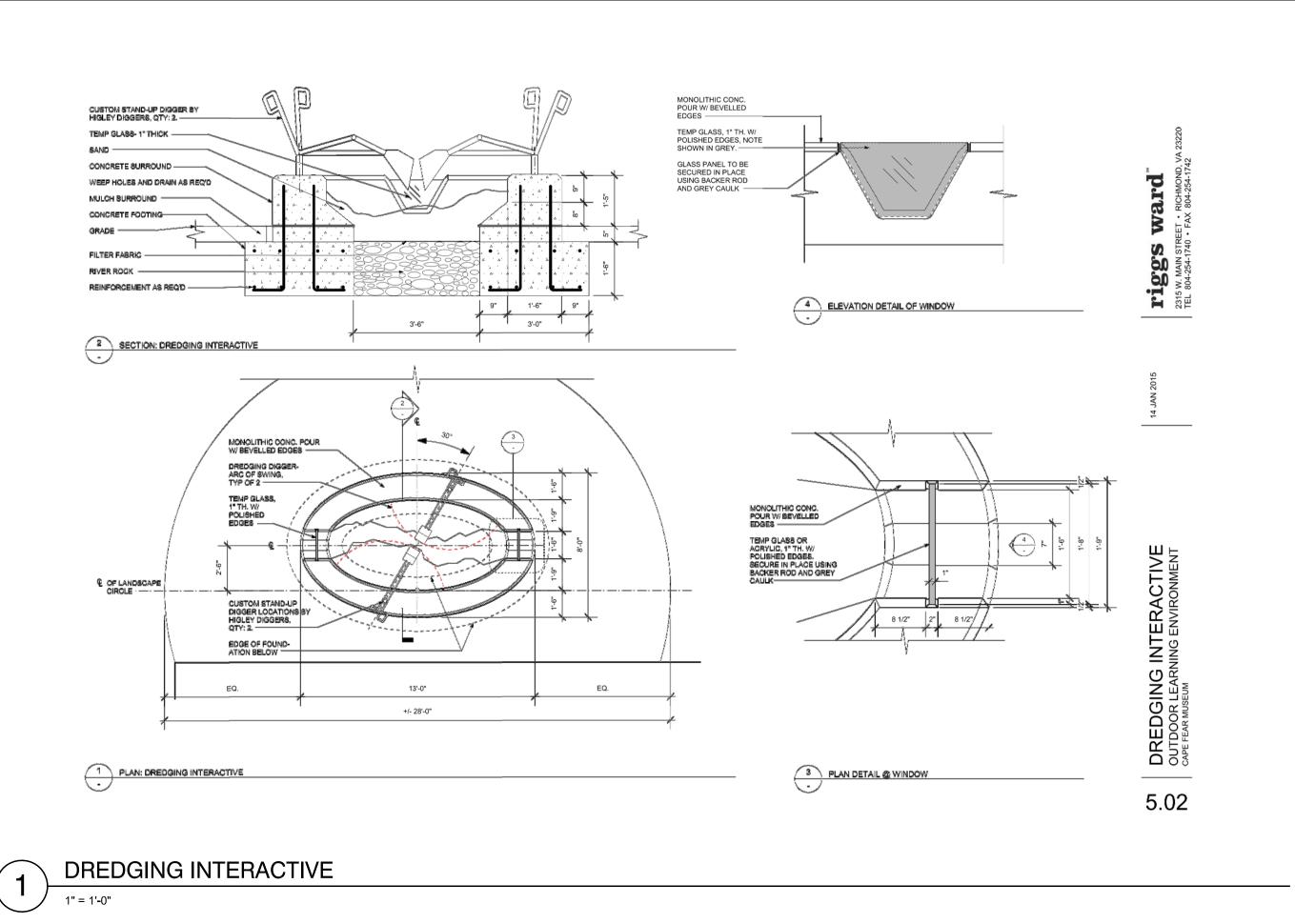
2/3/2015 DESIGNER: LED/JAB

CHECKED BY: BHS **REVISIONS**

SCALES HORIZ: AS SHOWN

DESIGN DEVELOPMENT

SHEET NO. D103



-Treangular Kiosk by Vista Systems, Bylle (Trahl), Model Vesses or Approved Equal, (17): 3 FINISHED CONCRETE SLAS TO BE POUNED UP TO OCLUMN 2 BLEVATION: TRIANGULAR KIOSK SC: 1/2" = 1'-9" 1 PLAN: TRIANGULAR KIOSK, QTY = 3 SQ: 1/2" = 1"-Q" 5.01 TRIANGULAR KIOSKS

Outdoor Learning Environment
NEW HANOVER COUNTY
814 Market Street, Wilmington, NC 28401 Fear Museum Cape

2/3/2015 DATE: DESIGNER: LED

CHECKED BY: BHS **REVISIONS**

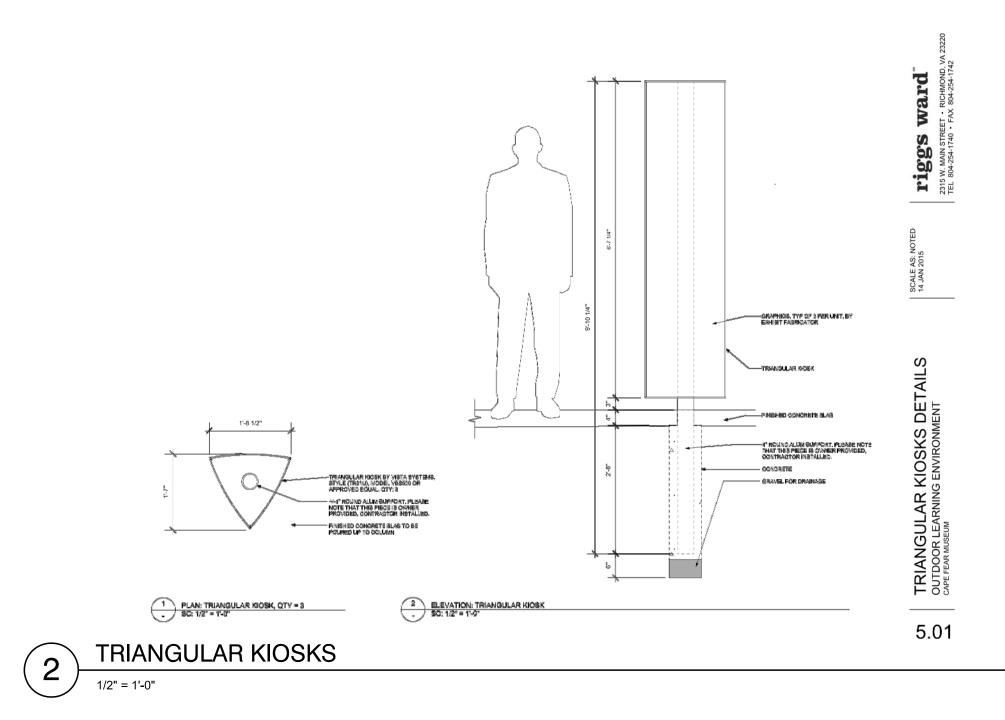
SCALES HORIZ: 1"=10'-0"

DESIGN DEVELOPMENT

D104

Construction Approval Block

DETAILS



GENERAL NOTES:

- 1. Contractor shall inspect site prior to bidding and start of work; verify existing conditions match plans and accept site, or report any discrepancies immediately to the owner.
- 2. Limits of construction activities will adhere to those clearly indicated on 14. The contractor is responsible for the coordination and adjustment of all the plans unless designated otherwise.
- 3. Contractor is responsible for scheduling all pre-construction meetings with all applicable governing jurisdictions. Contractor is responsible for obtaining and paying for all permits, inspections, and certifications that may be required.
- 4. All work shall be in accordance with New Hanover County, Town of Wilmington, & NCDOT standard specifications and details.
- 5. Contractor shall keep job site free of trash and garbage, and shall immediately collect any construction-related debris or trash that is on 17. All work must comply with North Carolina State Building and right of way or adjoining properties.
- 6. Tree protection fence is to be installed prior to any construction and be 18. Prevent spilling of fuels, lubricants, coolants, hydraulic fluids, and any maintained throughout construction and removed accordingly after construction. Location to be approved by landscape architect prior to disturbance.
- 7. All soil erosion control measures required shall be installed prior to grading, clearing, or grubbing. All erosion control devices such as silt 19. DISPOSABLE MATERIAL fences, etc., shall be maintained in workable conditions for the life of the 19.1. project and shall be removed at the completion of the project only on the landscape architect's approval. Payment shall be considered incidental to clearing and grubbing. If during the life of the project, a storm causes soil erosion which changes finish grades or creates "gullies" and "washed areas", these shall be repaired at no extra cost, and all silt washed off the project site onto adjacent property shall be removed as directed by the landscape architect at no extra cost. The contractor shall adhere to any approved erosion control plans whether indicated in the construction plans or under separate cover.
- 8. Contractor shall restore any facilities or utilities damaged during construction.
- 9. Any discrepancies in plans, or departure from plans shall be reported to the landscape architect immediately, and no work shall continue on 20. There are no existing or proposed easements or other restrictions on the affected issue until directed by landscape architect.
- 10. Prepare and maintain on job site 'as-built' plans. Contractor to prepare 21. There are no current drainage problems on the property. and maintain 'as built' plans. Contractor responsible for the preparation and delivery of as built drawings to the owner. Contractor to have original CAD drawing files revised to illustrate changes made during construction.
- 11. Finish grade tolerances shall be as noted in the specifications. The landscape architect may make minor grade changes as required in the field without effecting the unit bid price for unclassified excavation.

CITY OF WILMINGTON GENERAL NOTES:

Control Devices) standards.

accordance with MUTCD standards.

All pavement markings in public rights-of- way and for driveways are to be thermoplastic and meet City and/or

All signs and pavement markings in areas open to public traffic are to meet MUTCD (Manual on Uniform Traffic

A utility cut permit is required for each open cut of a City street. Note this on the plan and contact 341-5888 for

All traffic control signs and markings off the right-of-way are to be maintained by the property owner in

more details. In certain cases an entire resurfacing of the area being open cut may be required.

Contact Traffic Engineering at 341-7888 forty-eight hours prior to any excavation in the right of way.

All parking stall markings and lane arrows within the parking areas shall be white.

Any broken or missing sidewalk panels, driveway panels, and curbing will be replaced.

- 12. Existing/Non conforming lighting will remain.
- 13. Entire area to be graded shall be cleared and grubbed. No fill shall be placed on any area not cleared and grubbed.
- utility surface accesses whether he performs the work or a utility company performs the work.
- 15. The contractor shall control all "dust" by periodic watering and shall provide access at all times for property owners within the project area and for emergency vehicles. All open ditches and hazardous areas
- shall be clearly marked in accordance with the specifications. 16. The contractor shall enter and exit the site via the temporary
- construction entrance as detailed in the drawings.
- Handicapped Accessibility Code.
- other petroleum products onto the ground or into surface waters. Dispose of spent fuels appropriately. As per law, contractor is responsible for all costs associated with hazardous material spills including remediation.
- Clearing and grubbing wastes shall be removed from the site and properly disposed of by the contractor at his expense, unless specified otherwise. Solid wastes to be removed, such as sidewalks, curbs, pavement, etc., shall be removed from the site as required by the specifications.
- Abandoned utilities such as culverts, water pipe, hydrants, castings, pipe appurtenances, utility poles, etc., shall be the property of the specific utility agency, or company having jurisdiction. Before contractor can remove, destroy, salvage, reuse, sell or store for his own use any abandoned utility, he must present to the owner written permission from the utility company involved.
- The open burning of trees, limbs, stumps and construction debris associated with this development is prohibited.

GENERAL DEMOLITION NOTES:

- 1. Tree protection fencing must be in place prior to any clearing, demolition, and disturbance or issuance of grading permit and maintained throughout construction. Landscape Architect to verify fence location prior to construction.
- 2. All materials noted for removal to be disposed of off-site and in a legal manner, unless otherwise noted. Contractor to recycle materials as appropriate including asphalt, concrete, brick, and
- 3. Items or elements noted for removal and return to owner or relocation shall be stored on-site at owner's direction.
- 4. Items not noted for removal, including trees, lights, plant material, paving, and all utilities shall be protected and secured throughout construction. Any damage incurred shall be corrected in kind at no additional cost to the owner.
- 5. Erosion control measures to be installed prior to site disturbance.
- 6. If root systems of existing trees noted to remain on site are encountered during construction, roots are to be pruned under the direction a Certified Arborist.
- 7. Contractor to verify location of existing utilities prior to construction. 8. Contractor to keep construction entrance and adjacent streets clean throughout construction.
- Contractor shall keep job site free of trash and garbage.
- 10. Any discrepancies in plans or departure from plans shall be reported to the Landscape Architect immediately.
- 11. All pavement / curb to be saw cut at limits of removal.

GENERAL LAYOUT NOTES:

- 1. Drawings based on survey provided by Michael Underwood and Associates, PA. Landscape Architect assumes no responsibility for the accuracy of the survey.
- 2. Any discrepancies in layout should be brought to the attention of the Landscape Architect immediately.
- 3. Written dimensions supercede scaled dimensions. Do not scale
- 4. Layout to be staked by a surveyor licensed in North Carolina and approved by Landscape Architect prior to installation.

GENERAL GRADING NOTES:

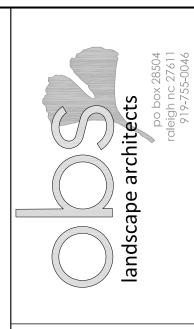
- 1. Construction fencing and tree protection fencing must be in place prior to any clearing, demolition, and disturbance or issuance of grading permit and maintained throughout construction. Landscape Architect to verify fence location prior to construction.
- Contractor to insure positive drainage away from buildings.
- 3. All slopes to be consistent and uniform.

stabilized.

- 4. Bottom of wall elevations (BW) refer to finish grade not top or bottom of wall footing.
- Spot elevations reference final surface elevations.
- Subgrade elevations shall reflect slope and grade of final surface
- All proposed pavement shall meet existing pavement, flush. 8. All walks to exhibit a 2% cross slope and not exceed 5% slope in the
- direction of pedestrian movement unless otherwise noted. The contractor shall install and maintain sufficient erosion and sediment control measures as needed to keep sediment within the project work area. Any sediment deposited outside the project work area, including tracking out, shall be immediately cleaned up by sweeping and removing the material by hand. Accumulated sediment on hard surfaces shall not be washed into storm drains, gutters or receiving waters. All installed erosion and sediment control measures shall be removed once the project area is fully

GENERAL PLANTING NOTES:

- 1. All plant materials to comply with American Standard for Nursery Stock ANSI.Z60
- 2. Substitutions of plant materials specified can only occur with prior approval by Landscape Architect.
- 4. Establish plant bed configuration. Landscape Architect to approve bed layout in field.
- 5. Perform soil test in all new plant beds and amend soils as
- 6. Install plants and mulch plant beds with 3" shredded hardwood mulch.
- 7. All trees to be installed between October 1 and April 30.
- 8. Contractor to guarantee plant materials for a one year period
- following substantial completion. 9. Areas damaged by activities of contractor shall be re-established to
- pre-disturbance condition at no additional cost to the owner. 10. Use herbicides, pesticides, and fertilizer in a manner consistent with the federal insecticide, fungicide, and rodenticide act and in accordance with label restrictions.
- 11. Contractor shall protect any existing planting not involved in new
- 12. Contractor shall insure that all plant material is free of fire ants prior
- 13. Landscape Architect / Owner shall approve placement of trees prior
- 14. All proposed vegetation within sight distance triangles shall not interfere with clear, visual sight lines from 30"-10' in height.



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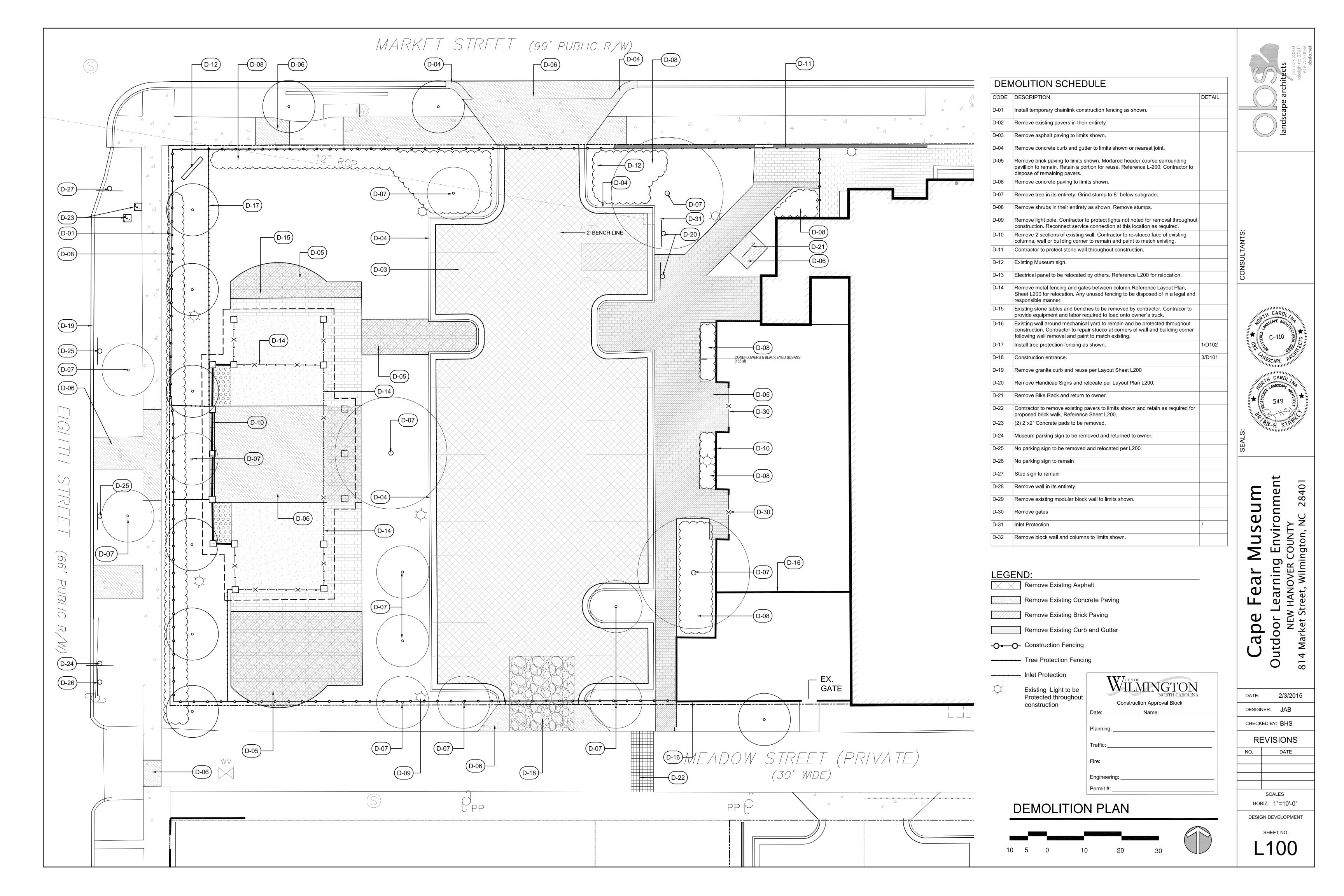
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| CHECK | ŒD BY: | BHS |
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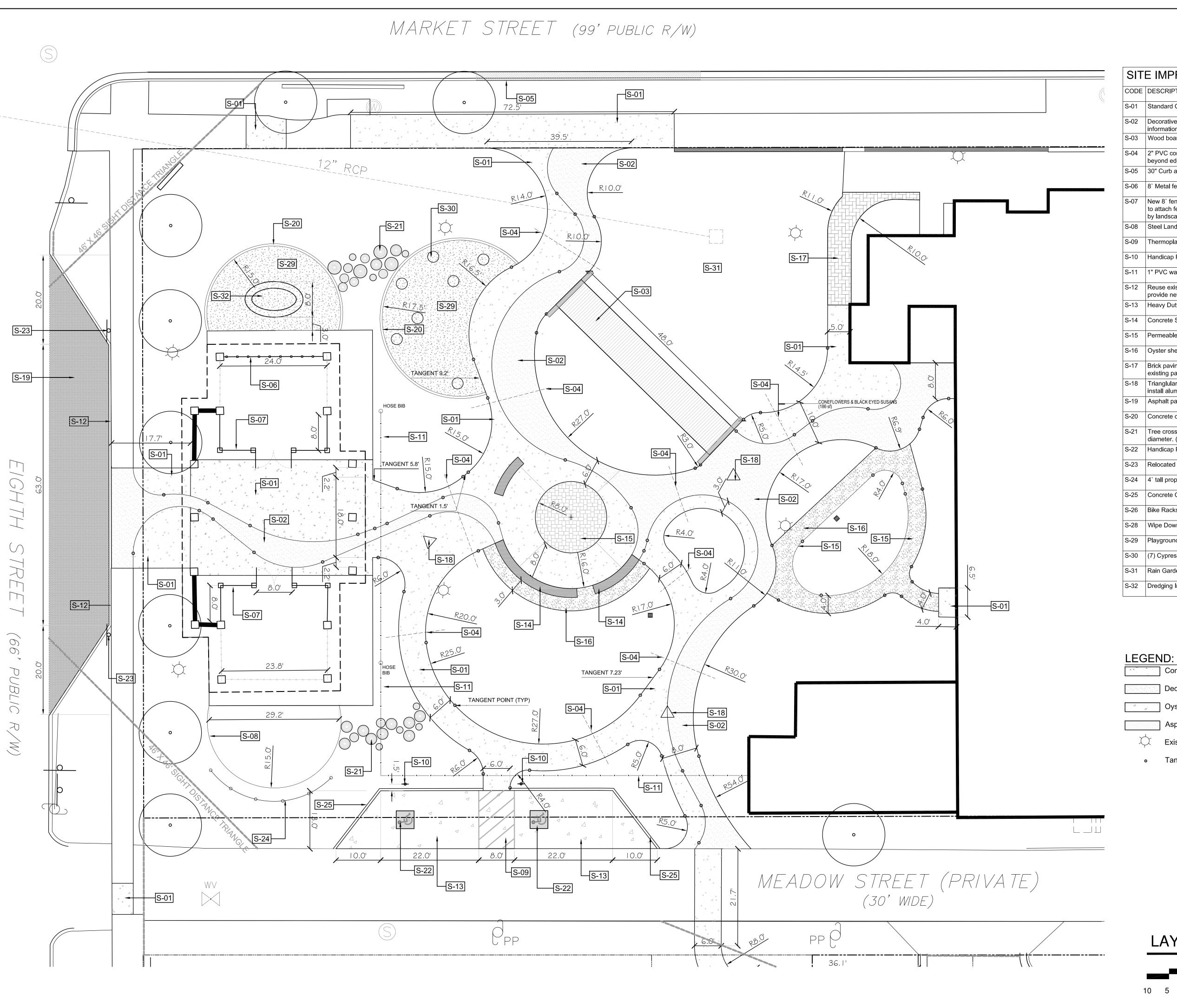
GENERAL NOTES

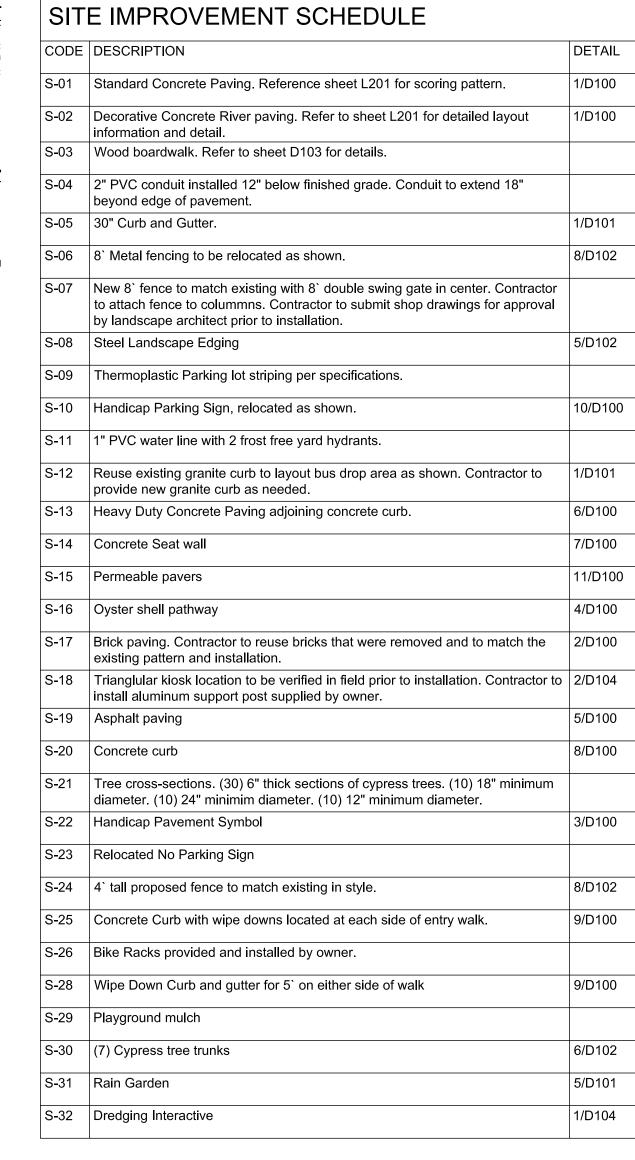
Construction Approval Block

SCALES HORIZ: 1"=10'-0" DESIGN DEVELOPMENT

SHEET NO. G100







SEND:

Concrete Paving

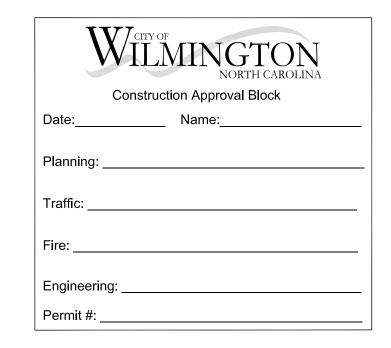
Decorative Concrete River Paving

Oyster Shell Paving

Asphalt Paving

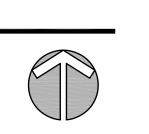
Existing Light to be Protected throughout construction

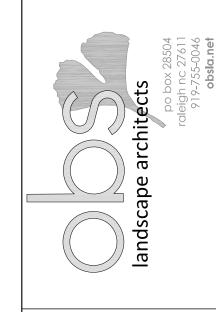
Tangent Point

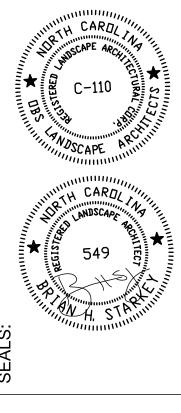


LAYOUT PLAN









Cape Fear Museum
Outdoor Learning Environment
NEW HANOVER COUNTY
814 Market Street, Wilmington, NC 28401

DATE: 2/3/2015

DESIGNER: LED

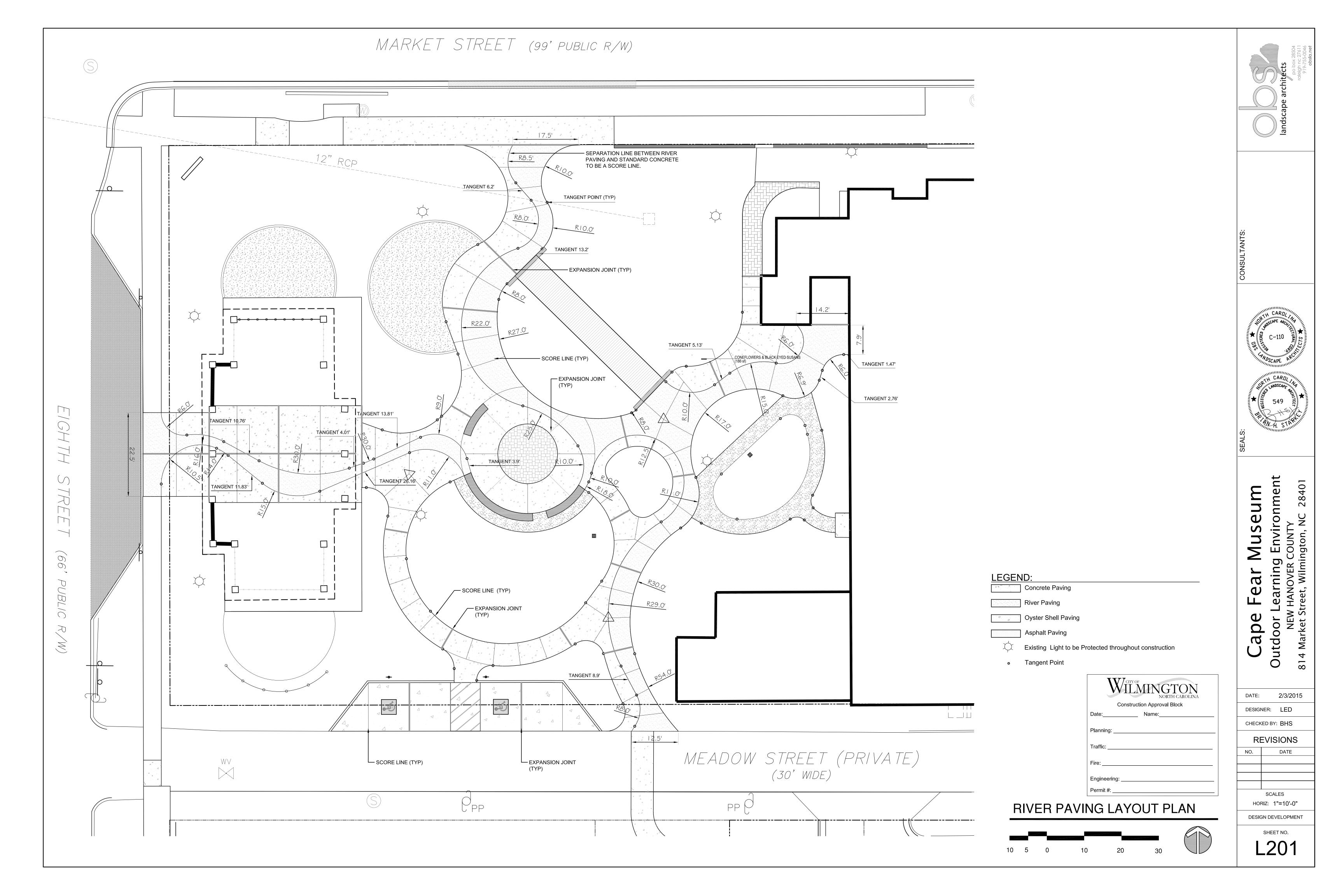
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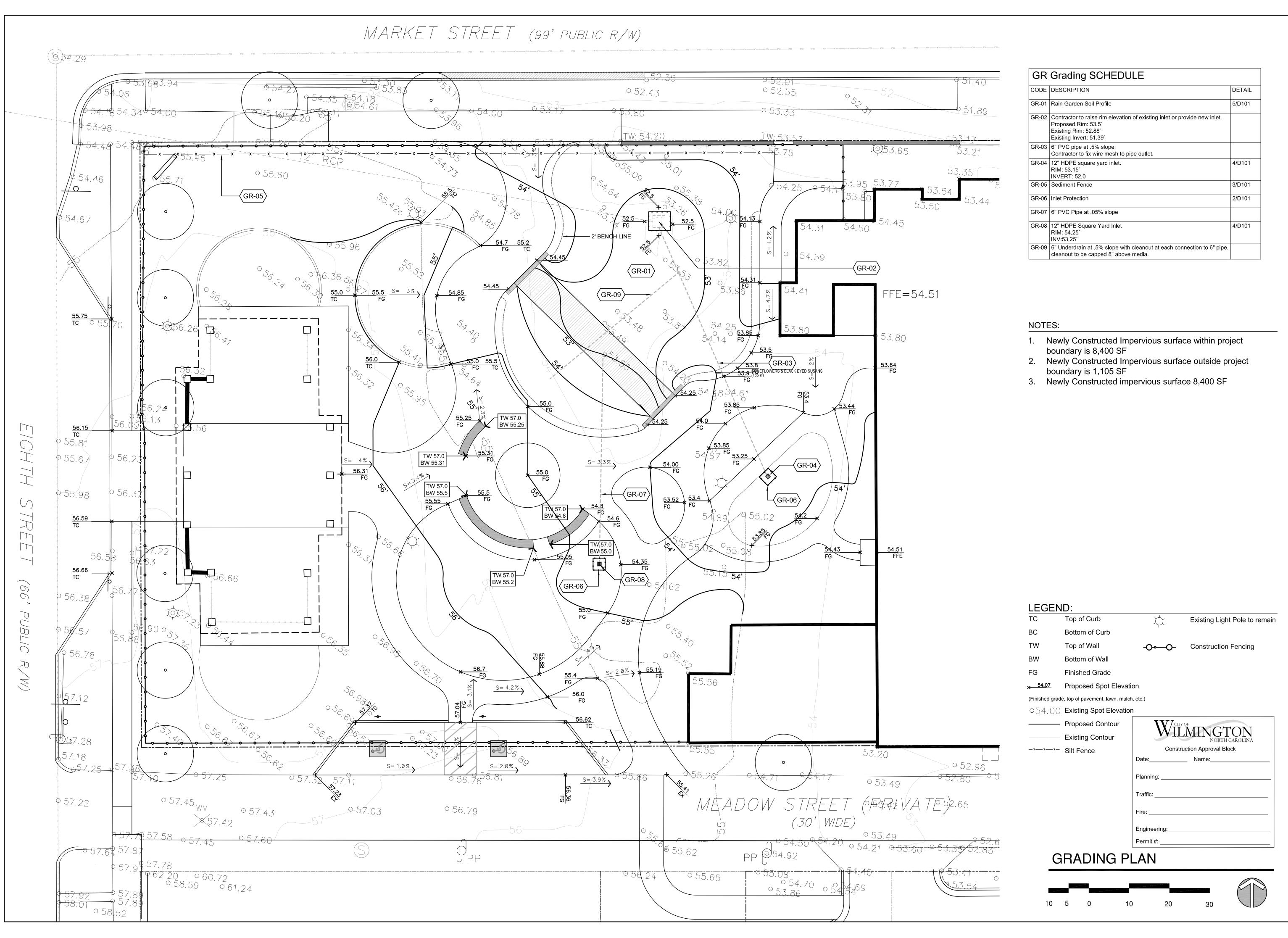
REVISIONS

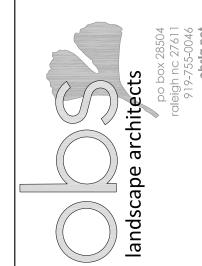
NO. DATE

SCALES
HORIZ: 1"=10'-0"

SHEET NO.







SONSULTANTS:

C-110 RAZIONALIA CAROLANA CONTROLA CONT

SEALS:

SUBSCAPE

CARON
MINIMAL MISSCAPE

AND SCAPE

THE CARON
MINIMAL MISSCAPE

STATE

Cape Fear Museum Outdoor Learning Environmen

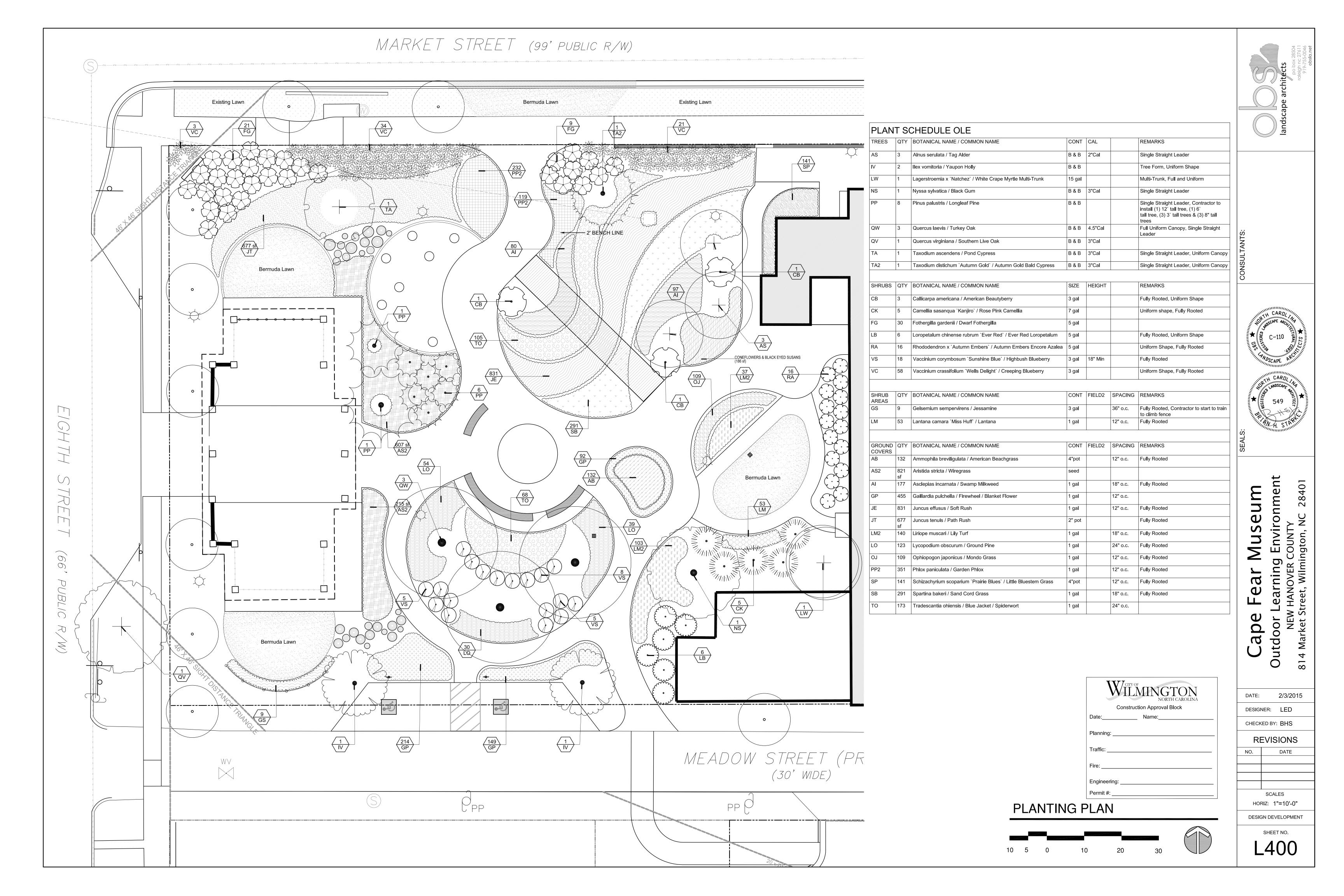
DATE: 2/3/2015
DESIGNER: LED
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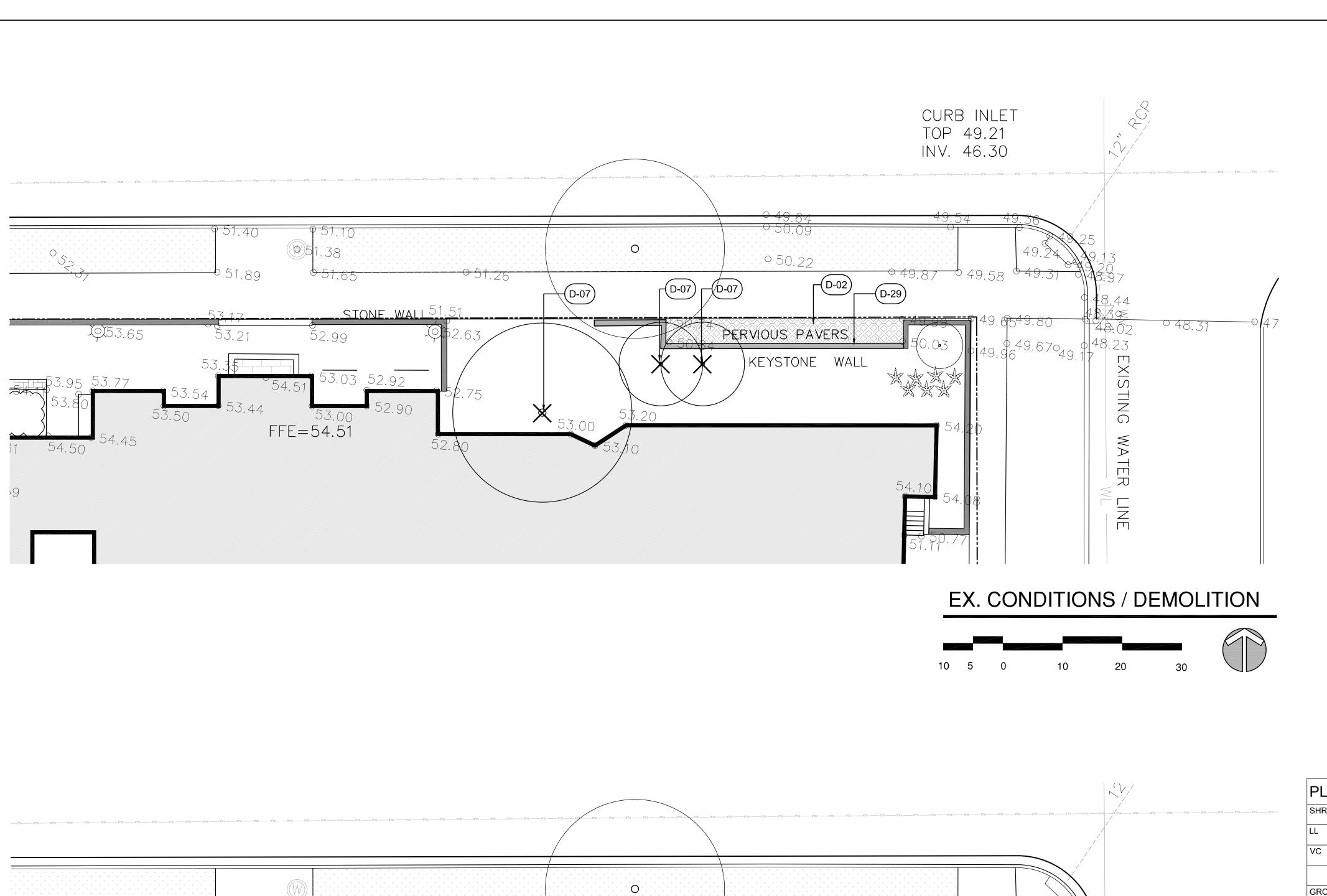
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D. DATE

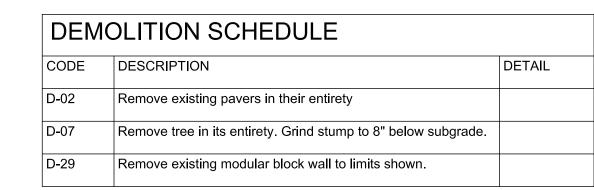
SCALES
HORIZ: 1"=10'-0"

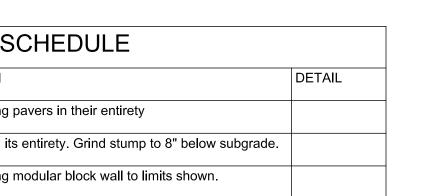
DESIGN DEVELOPMENT
SHEET NO.

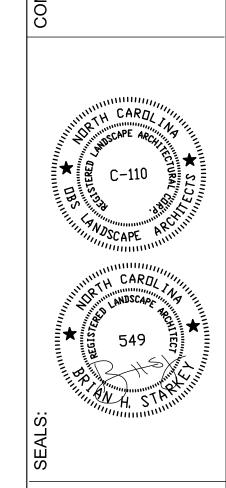
L300











| PLANT SCH | HED | ULE MARKET STREET FACADE | | | | |
|---------------|-----|---|-------|---------|----------|-----------------------------|
| SHRUBS | QTY | BOTANICAL NAME / COMMON NAME | SIZE | HEIGHT | SPACING | REMARKS |
| LL | 13 | Lyonia lucida / Shining Fetterbush | 3 gal | 18" Min | 60" o.c. | Uniform Shape, Fully Rooted |
| VC | 27 | Vaccinium crassifolium 'Wells Delight' / Creeping Blueberry | 3 gal | | 48" o.c. | Uniform Shape, Fully Rooted |
| | | | | • | | |
| GROUND COVERS | QTY | BOTANICAL NAME / COMMON NAME | CONT | FIELD2 | SPACING | REMARKS |
| РВ | 196 | Phlox divaricata `Blue Moon` / Blue Moon Phlox | 4"pot | | 12" o.c. | Fully Rooted |
| PA | 255 | Polystichum acrostichoides / Christmas Fern | 1 gal | | 18" o.c | Fully Rooted |

| SITE IMPROVEMENT SCHEDULE | | | | |
|---------------------------|---|--------|--|--|
| CODE | DESCRIPTION | DETAIL | | |
| S-26 | Bike Racks provided and installed by owner. | | | |

EXISTING WEEPING HOLLY TO REMAIN

EXISTING YUCCA'S TO REMAIN

LAYOUT / PLANTING PLAN

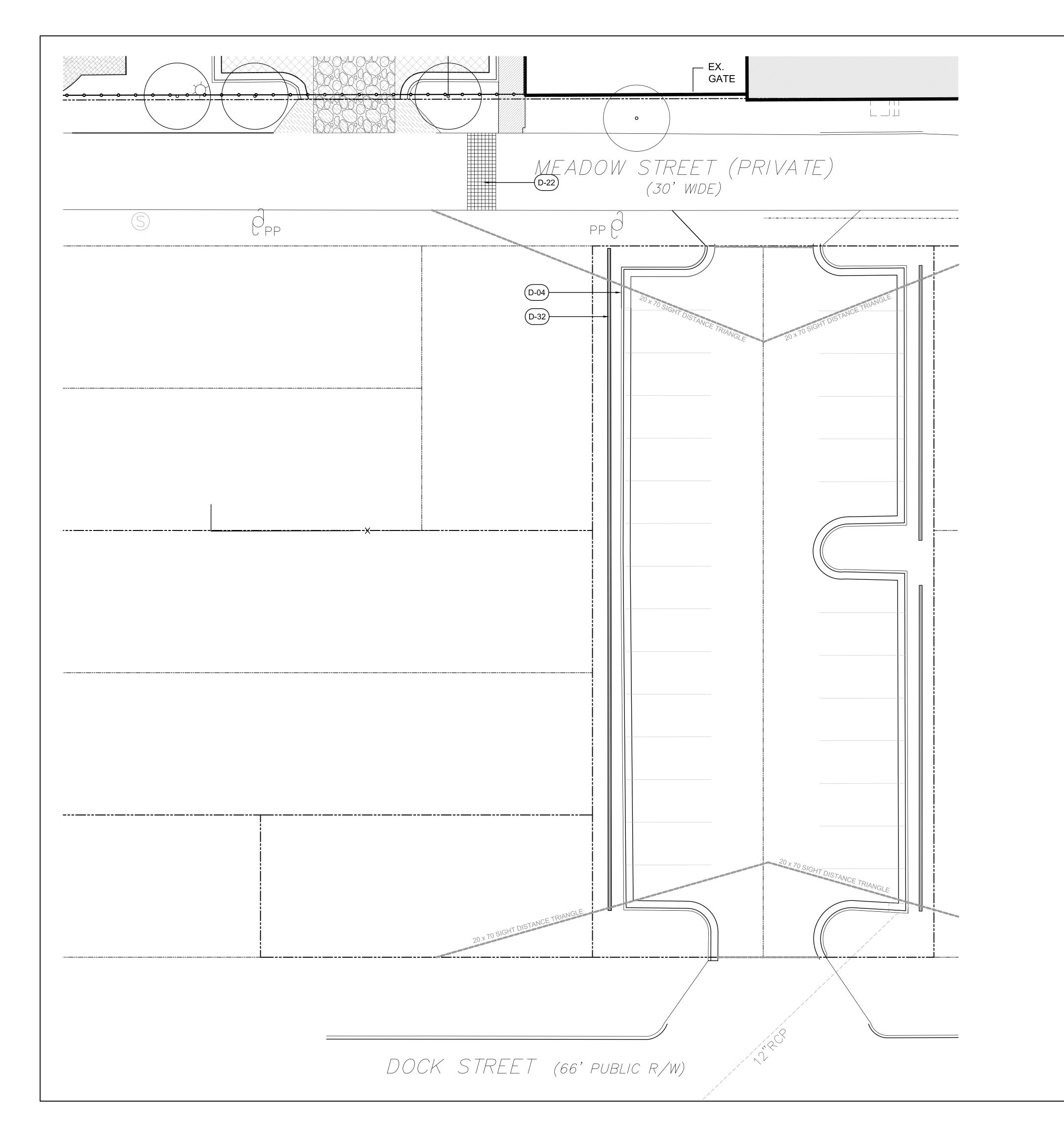
| $W_{ m I}^{\scriptscriptstyle m cl}$ | LMINGTON NORTH CAROLINA |
|---------------------------------------|----------------------------|
| Cons | struction Approval Block |
| Date: | Name: |
| Planning: | |
| Traffic: | |
| Fire: | |
| Engineering: | |
| Permit #: | |

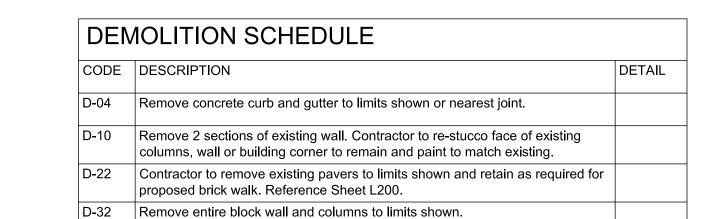
MARKET STREET FACADE

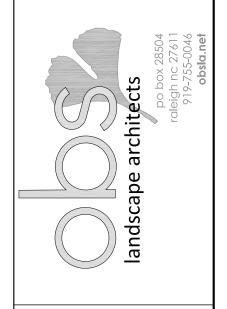
| Cape Fear Muse | Outdoor Learning Environ | NEW HANOVER COUNTY | 814 Market Street, Wilmington, NC |
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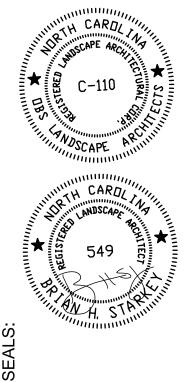
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| | | | | |
| SCALES | | | | |
| HORIZ: 1"=10'-0" | | | | |
| DESIGN DEVELOPMENT | | | | |

L500









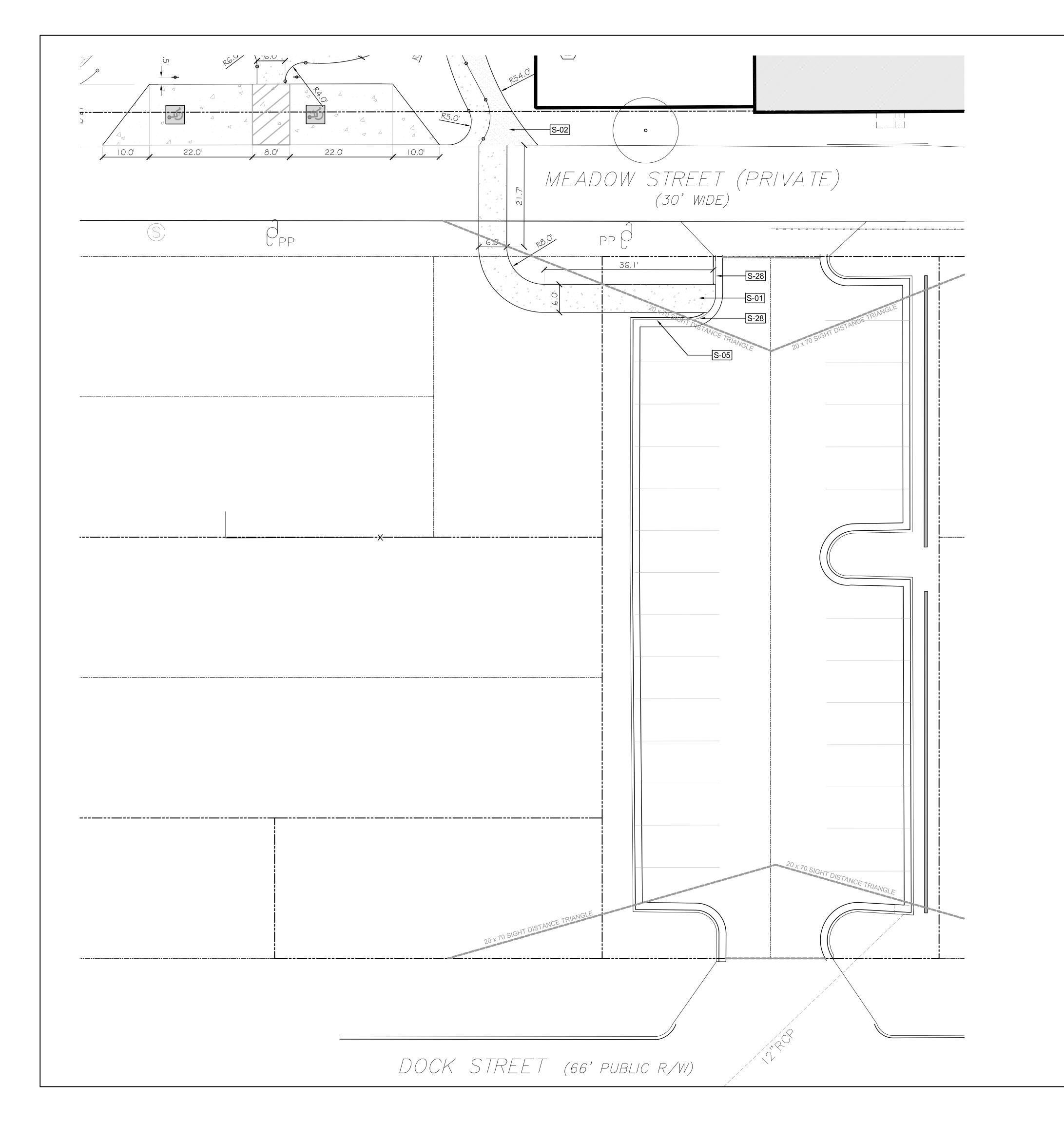
2/3/2015 DESIGNER: LED CHECKED BY: BHS **REVISIONS**

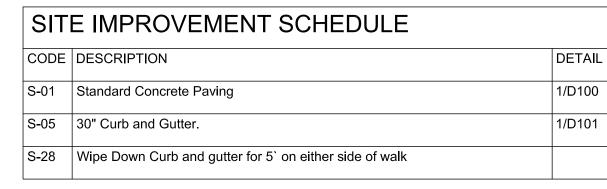
SCALES HORIZ: 1"=10'-0" DESIGN DEVELOPMENT

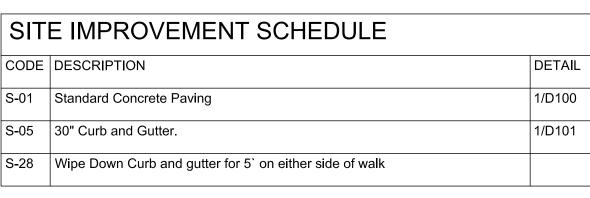
EX. CONDITIONS / DEMOLITION

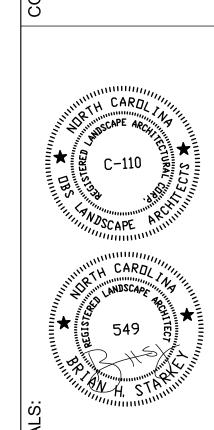
L600

Construction Approval Block









2/3/2015 DESIGNER: LED CHECKED BY: BHS

REVISIONS

HORIZ: 1"=10'-0"

DESIGN DEVELOPMENT

L601





