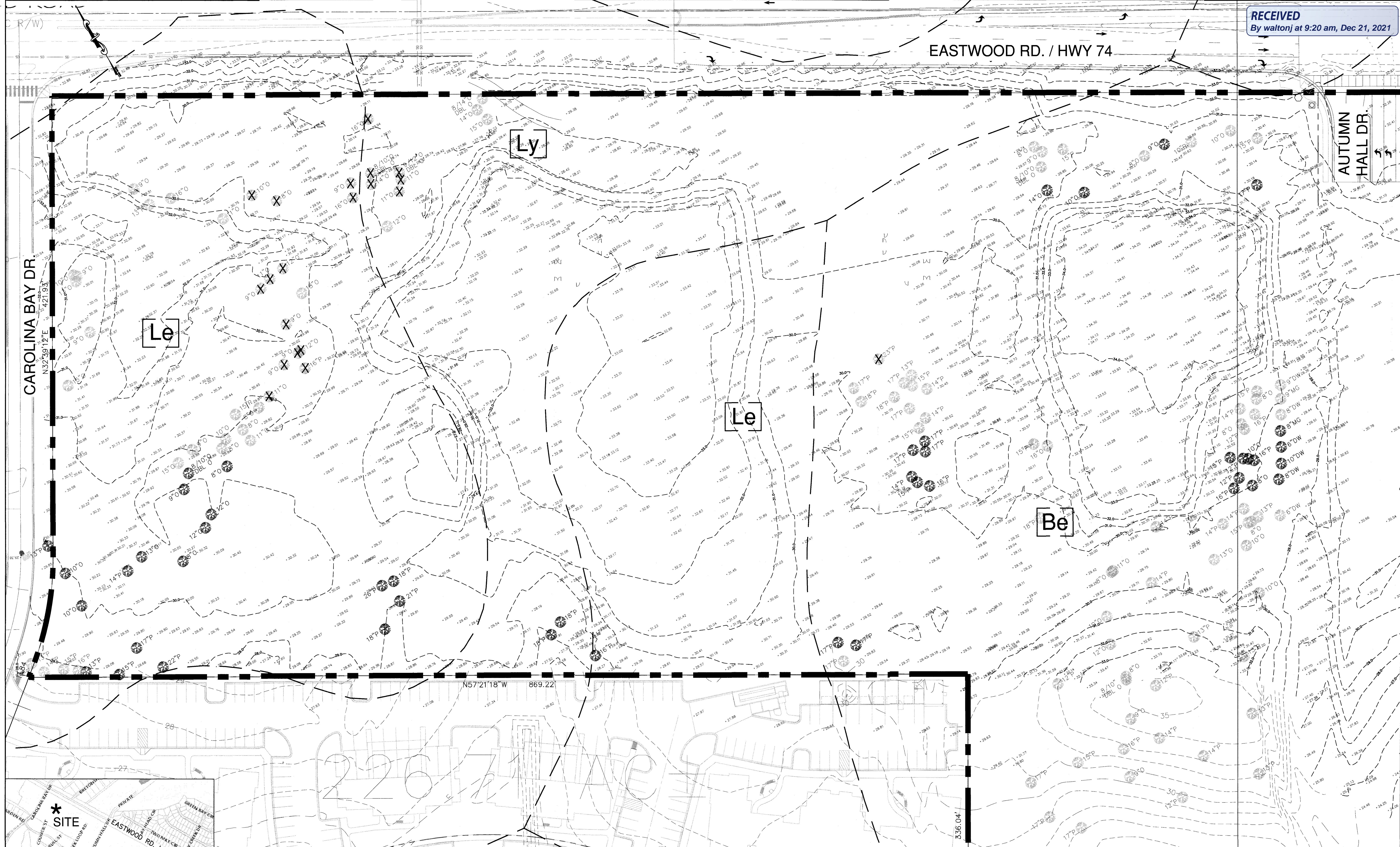


RECEIVED
By waltonj at 9:20 am, Dec 21, 2021

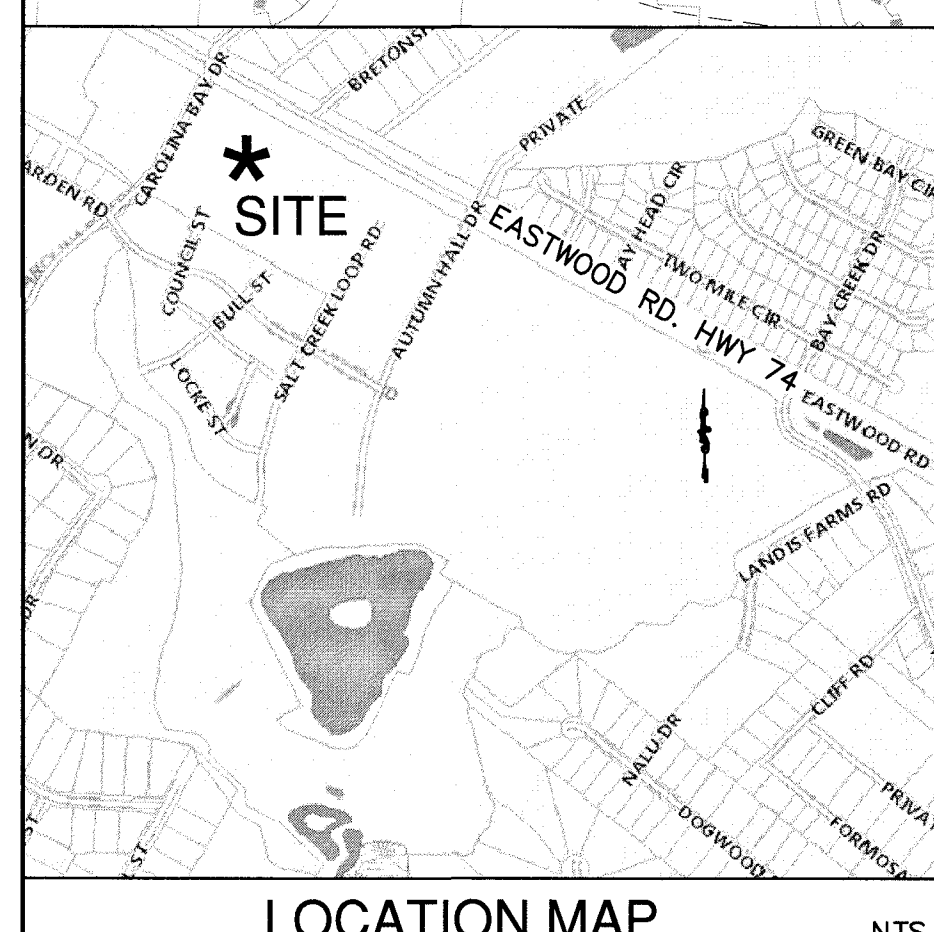


SITE INVENTORY PLAN
AUTUMN HALL COMMERCIAL BLDG 3&4
1202 EASTWOOD ROAD
WILMINGTON, NC
NEW HANOVER COUNTY

DEVELOPER
WEB TRASK CO MIKE BROWN
CAPE FEAR COMMERCIAL, LLC
6336 OLEANDER DRIVE, SUITE 1
WILMINGTON, NC 28403
344-1010 (P) 622-4657 (CELL)

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1090 EASTWOOD RD., SUITE #11 1429 ASH-LITTLE RIVER RD., NW
WILMINGTON, NC 28403
PHONE (910) 343-9625 PHONE (910) 267-5900

License #C-3641
21117
DES. JST
CHK. JPN
DRWN. DGC
DATE 9/15/21



TREE REMOVAL TABLE

REGULATED PINES	REGULATED OAKS
16" (1)	8" (1)
23" (1)	9" (5)
	10" (1)
	11" (4)
	12" (2)
	14" (1)
	16" (2)
	DOUBLE 8"/10" (1)
	DOUBLE 9"/12" (1)

NOTE:
1) THIS PROPERTY IS NOT WITHIN
100 YEAR FLOOD PLAIN.

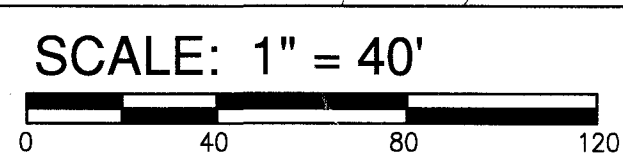
CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

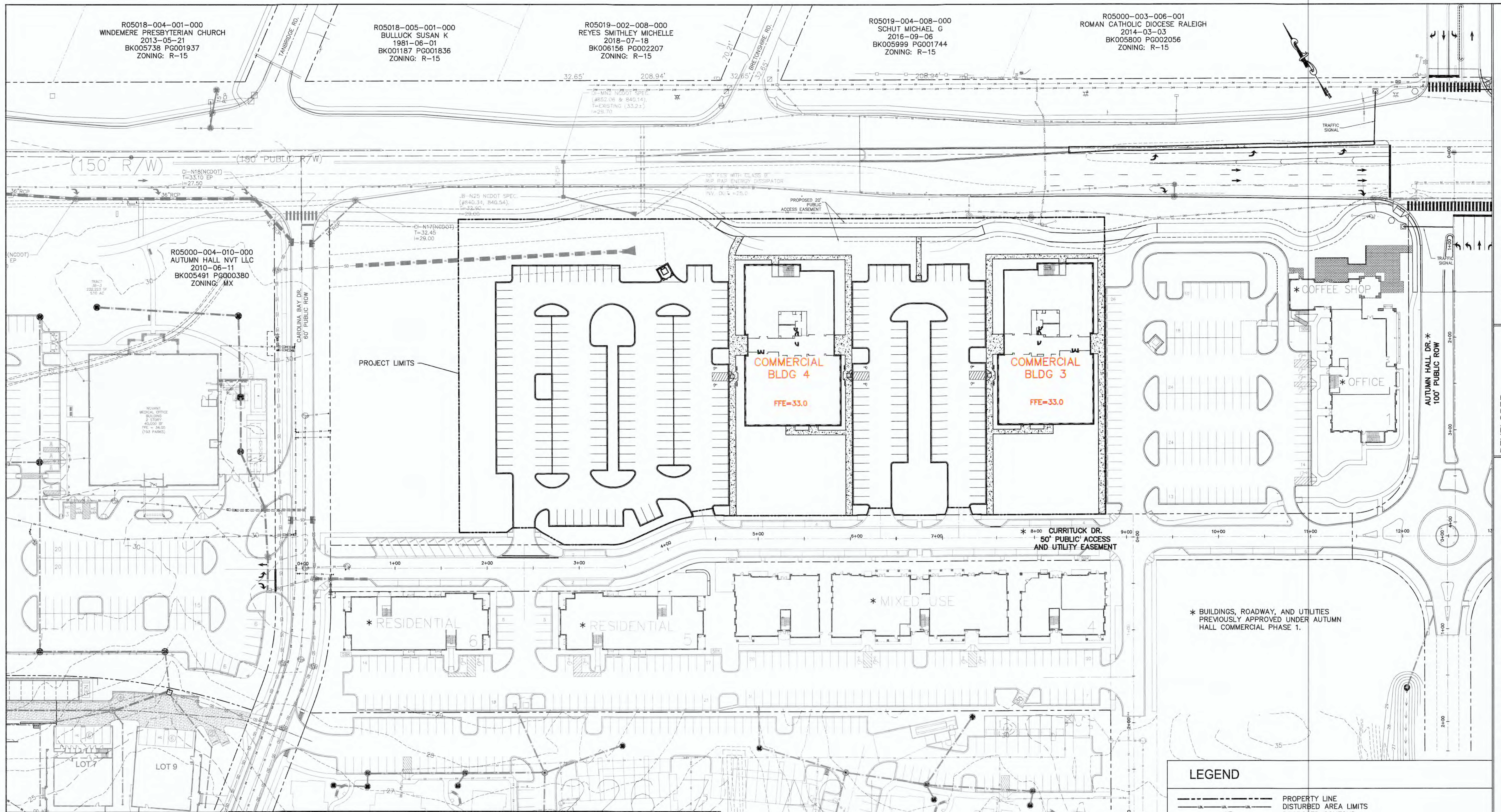
Name	Date
Planning	_____
Traffic	_____
Fire	_____

NCDENR PWSS WATER PERMIT #: _____
WATER CAPACITY: _____ GPD
DWQ SEWER PERMIT #: _____
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

For each open utility cut of
City streets, a \$325 permit
shall be required from the
City prior to occupancy
and/or project acceptance.



PARCEL ADDRESS: 1202 EASTWOOD ROAD
PARCEL ID#: R05000-004-147-000
MAP ID#: 314708.97.1975.000
PARCEL OWNER: TRASK D WEBSTER REVOCABLE TRUST
PARCEL AREA: 73.37 ACRES (3,196,000 SF)
ZONING: MX/R15/SHOD
SOIL TYPES: Le, Ly, Be, Se, Jo, W
CAMA LAND USE: WATERSHED RESOURCE PROTECTION
WETLANDS: SEE PLAN
NO CAMA AEC OR SETBACKS WITHIN SITE AREA
HISTORICAL SITE: NONE
CEMETERY: NONE
FORESTED AREA: SEE PLAN FOR TREE SURVEY
ENDANGERED SPECIES/HABITAT: NONE REPORTED



OVERALL SITE PLAN
 AUTUMN HALL COMMERCIAL BLDG 3&4
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY

DEVELOPER
 WEB TRASK CO MIKE BROWN
 CAPE FEAR COMMERCIAL LLC
 6336 OLEANDER DRIVE, SUITE 1
 WILMINGTON, NC 28403
 344-1010 (P) 822-4657 (CELL)

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1900 EASTWOOD RD., SUITE #11
 WILMINGTON, NC 28403
 PHONE (910) 343-9653

License #C-3641

21117

DES. JST
 CKB. JPN
 DRWN. DCC

12/13/21

CO

SITE DATA TABLE

<p>USE: OFFICE/RETAIL/RESTAURANT/RESIDENTIAL PARCEL AREA: 73.37 ACRES (3,196,000 SF) PARCEL ID#: R05000-004-147-000 PARCEL OWNER: TRASK D WEBSTER REVOCABLE TRUST MAP ID#: 314708.97.1975.000 ADDRESS: 1202 EASTWOOD ROAD ZONING: MX/SHOD PROPOSED PARCEL USE: OFFICE BUILDING FOOTPRINT: 17,128 SF EACH (BLDG 3&4); 34,256 SF TOTAL CAMA LAND USE: WATERSHED RESOURCE PROTECTION SOILS: Le / Ly / Be BUILDING SETBACKS MX: 20' MIN. FROM MX BOUNDARY (REQUIRED) 50' MIN. FROM US AND NC HIGHWAYS AND MAJOR THOROUGHFARES INTERIOR: NO MINIMUM, WITHIN 10' OF INTERNAL STREET R/W PREFERRED. 75' MIN. WITH 25% SHOD REDUCTION</p>	<p>LANDSCAPING: SEE PLANS BY MIHALY LAND DESIGN - FOUNDATION PLANTINGS (12%) - LANDSCAPING REQ'D INTERIOR (AS PER O&M REGULATIONS): - STREET TREES ARE REQUIRED ALONG ALL STREETS AND SHALL BE A MIN. 3" CALIPER LOCATED AT MIN. 50' O.C. OPEN SPACE FOR MX DEVELOPMENT: - TRASH SERVICE: - DISTURBED AREA LIMITS: 4.65 ACRES WATER/SEWER DEMANDS BUSINESS OCCUPANCY = 175 OCCUPANTS X 25 GPD/PERSON = 4,375 GPD EACH BUILDING TOTAL = 8,750 GPD</p>
<p>BUILDING SETBACKS: (PROPOSED) SHOD SETBACKS: BUILDING: 100' (75' MIN. WITH 25% SHOD REDUCTION) PARKING: 50' (37.5' MIN. WITH 25% SHOD REDUCTION) INTERIOR SIDE: 20' *ADDITIONAL STREET/STAIRWAY PLANTINGS ARE REQUIRED WHEN TAKING THE SHOD 25% REDUCTION</p>	<p>PARKING REQUIREMENTS PARKING REQUIREMENT PER USE, NO MINIMUM REQUIREMENT IN MX ZONE OFFICE: 1 PER 200 SF GFA MAX. 1 PER 300 SF GFA MIN. BLDG 3: 170/113 BLDG 4: 170/113 BICYCLE PARKING: 5 BICYCLE PARKING FOR THE FIRST 25 CAR PARKING SPACES. EACH ADDITIONAL ONE HUNDRED (100) AUTOMOBILE PARKING SPACES ABOVE THE TWENTY-FIVE (25) MINIMUM SHALL REQUIRE PROVISIONS FOR PARKING AN ADDITIONAL FIVE (5) BICYCLES UP TO A BICYCLE PARKING SYSTEM THAT CAN ACCOMMODATE A MAXIMUM OF TWENTY (20) BICYCLES.</p>
<p>PROJECT AREA: 229,799 SF (5.27 AC) BUILDING LOT COVERAGE: 15% ±</p>	<p>PARKING PROVIDED: 262 REGULAR SPACES 6 HANDICAP SPACES 268 SPACES TOTAL 20 BIKE PARKING SPOTS PROVIDED</p>
<p>IMPERVIOUS AREAS: BUILDING= 34,256 SF (ROOF AREA) ASPHALT, CONCRETE, CURB & GUTTER= 90,230 SF SIDEWALK= 7,439 SF FUTURE= 0 SF TOTAL IMPERVIOUS AREA= 131,925 SF % IMPERVIOUS LOT COVERAGE= 59.5%</p>	

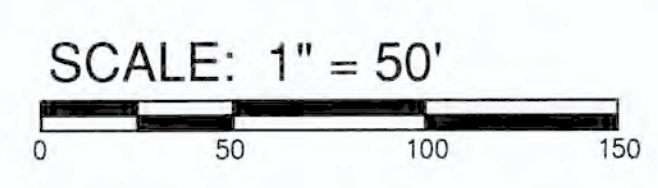
Building Data Table

	Construction Type	Height	Stories
Building 3	V-B	34'	2 (Each 17,128 SF)
Building 4	V-B	34'	2 (Each 17,128 SF)

ESTIMATED TRIP GENERATION

Weekday AM Peak Hour of Generator			Weekday PM Peak Hour of Generator		
* Enter	Exit	Total	* Enter	Exit	Total
104	14	118	25	115	140

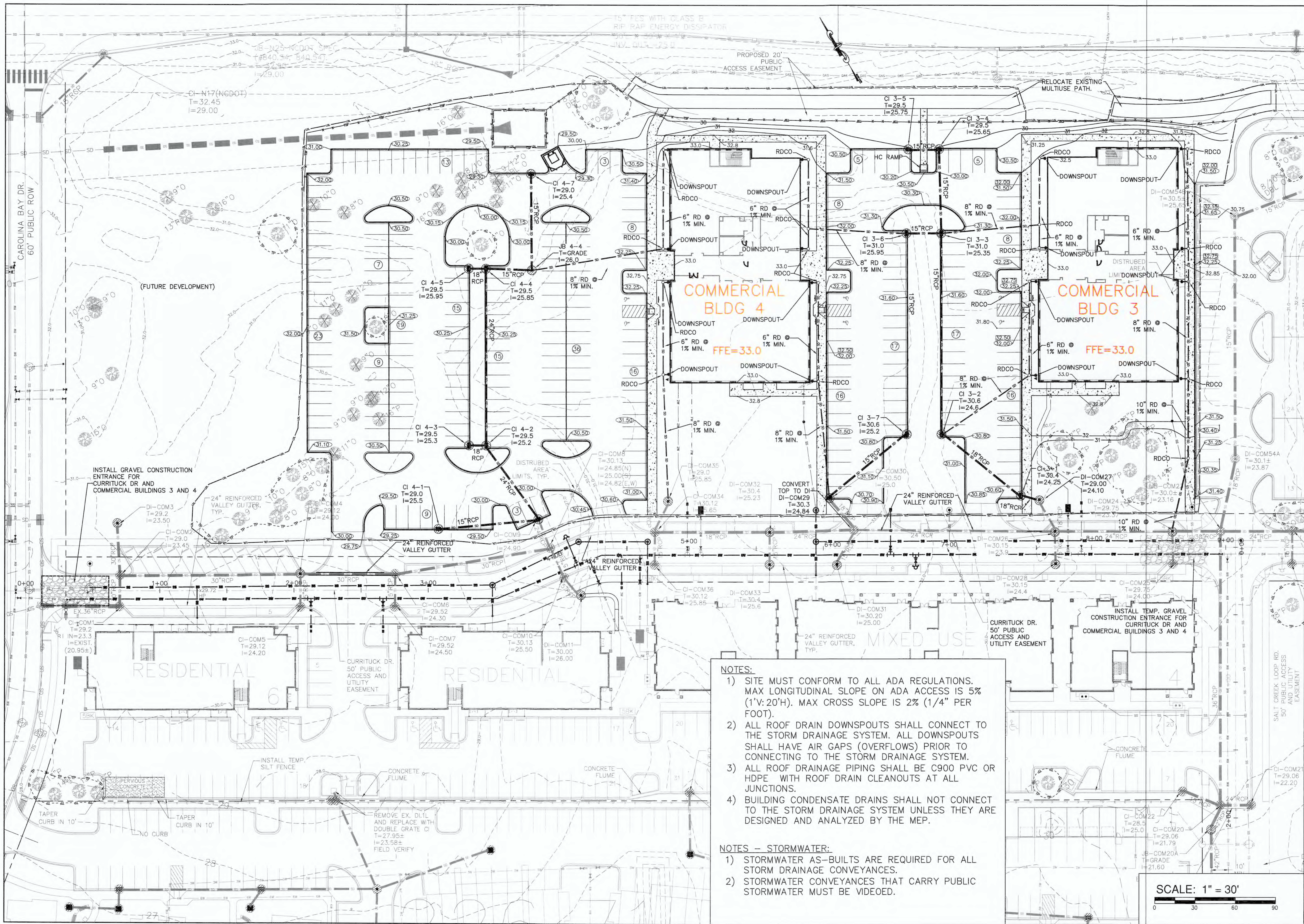
THIS SITE IS PART OF THE PREVIOUSLY APPROVED ORIGINAL TIA BY RKA AUTUMN HALL.



LEGEND

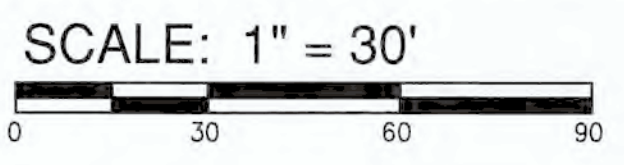
	PROPERTY LINE
	DISTURBED AREA LIMITS
	PROPOSED CONTOUR
	TEMPORARY SILT FENCE
	PROPOSED STORMDRAIN PIPE
	PROPOSED WATERLINE
	PROPOSED SANITARY SEWER (GRAVITY)
	PROPOSED SPOT ELEVATION FLOW LINE
	PROPOSED SPOT ELEVATION TOP OF CURB
	PROPOSED SPOT ELEVATION FINISH GRADE
	FLARED END SECTION WITH RIP-RAP ENERGY DISSIPATOR
	DROP INLET WITH INLET PROTECTION (DI)
	CURB INLET WITH INLET PROTECTION (CI)
	JUNCTION BOX WITH INLET PROTECTION (JB)
	PROPOSED FIRE HYDRANT
	EXISTING CONTOUR
	EXISTING TREE TO BE SAVED
	EXISTING TREE TO BE REMOVED
	TREE PROTECTION FENCING
	PROPOSED ASPHALT
	PROPOSED CONCRETE





- NOTES:**
- 1) SITE MUST CONFORM TO ALL ADA REGULATIONS. MAX LONGITUDINAL SLOPE ON ADA ACCESS IS 5% (1'V:20'H). MAX CROSS SLOPE IS 2% (1/4" PER FOOT).
 - 2) ALL ROOF DRAIN DOWNSPOUTS SHALL CONNECT TO THE STORM DRAINAGE SYSTEM. ALL DOWNSPOUTS SHALL HAVE AIR GAPS (OVERFLOWS) PRIOR TO CONNECTING TO THE STORM DRAINAGE SYSTEM.
 - 3) ALL ROOF DRAIN PIPING SHALL BE C900 PVC OR HDPE WITH ROOF DRAIN CLEANOUTS AT ALL JUNCTIONS.
 - 4) BUILDING CONDENSATE DRAINS SHALL NOT CONNECT TO THE STORM DRAINAGE SYSTEM UNLESS THEY ARE DESIGNED AND ANALYZED BY THE MEP.

- NOTES - STORMWATER:**
- 1) STORMWATER AS-BUILTS ARE REQUIRED FOR ALL STORM DRAINAGE CONVEYANCES.
 - 2) STORMWATER CONVEYANCES THAT CARRY PUBLIC STORMWATER MUST BE VIDEOED.



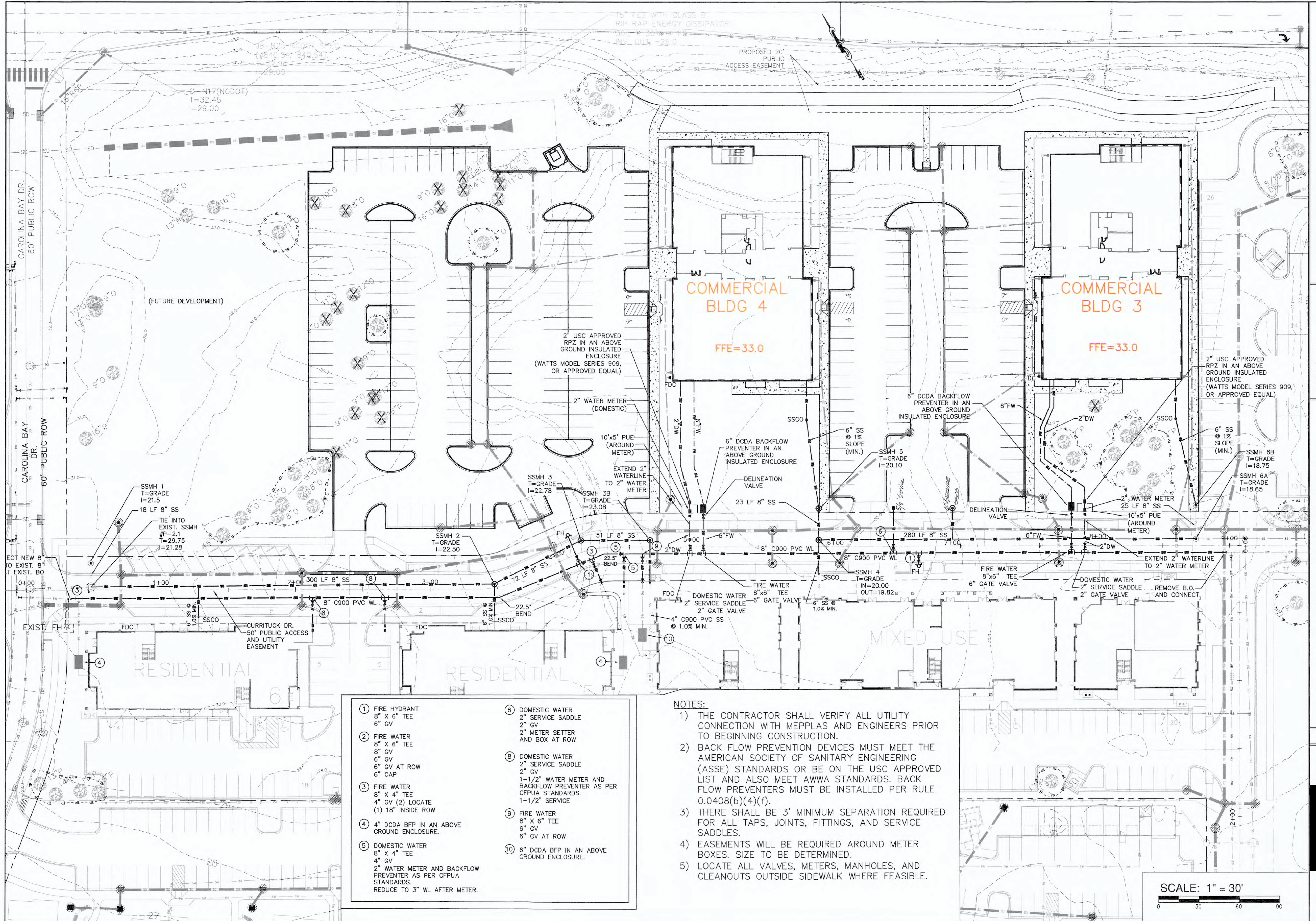
GRADING, DRAINAGE AND EROSION CONTROL PLAN
AUTUMN HALL COMMERCIAL BLDG 3&4
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY

DEVELOPER
 WEB TRASK O' MIKE BROWN
 CAPE FEAR COMMERCIAL, LLC
 6336 OLEANDER DRIVE, SUITE 1
 WILMINGTON, NC 28403
 344-1010 (P) 622-4657 (CELL)

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 190 EASTWOOD RD., SUITE #1
 WILMINGTON, NC 28403
 PHONE: (910) 343-9665

License #C-3641
21117
 DES. JST
 OKD. JPN
 DRWL. DGC
 DATE 12/13/21

C1



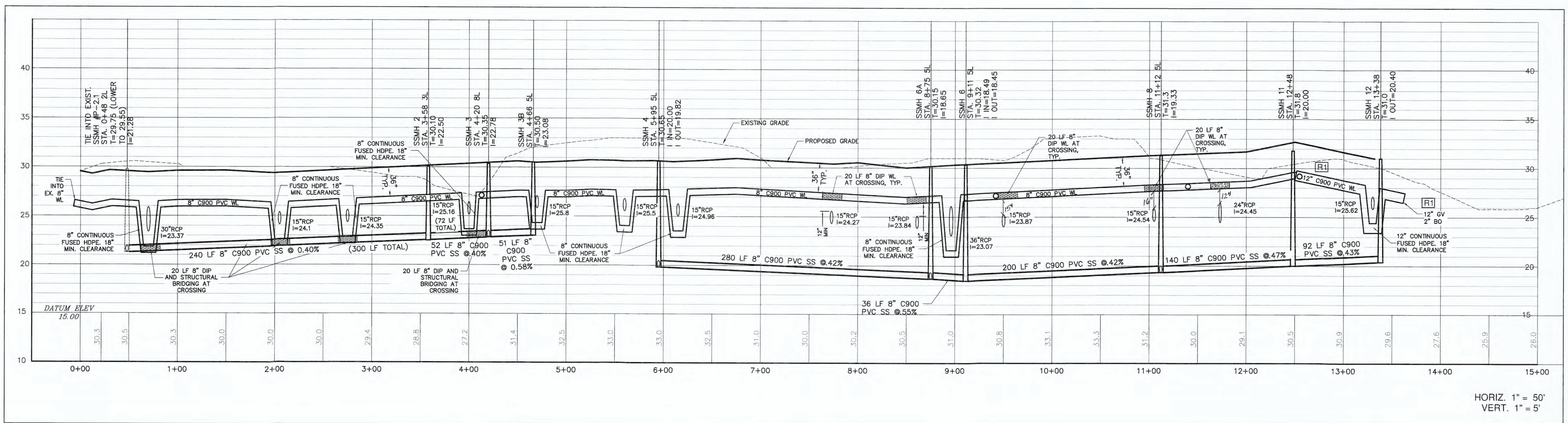
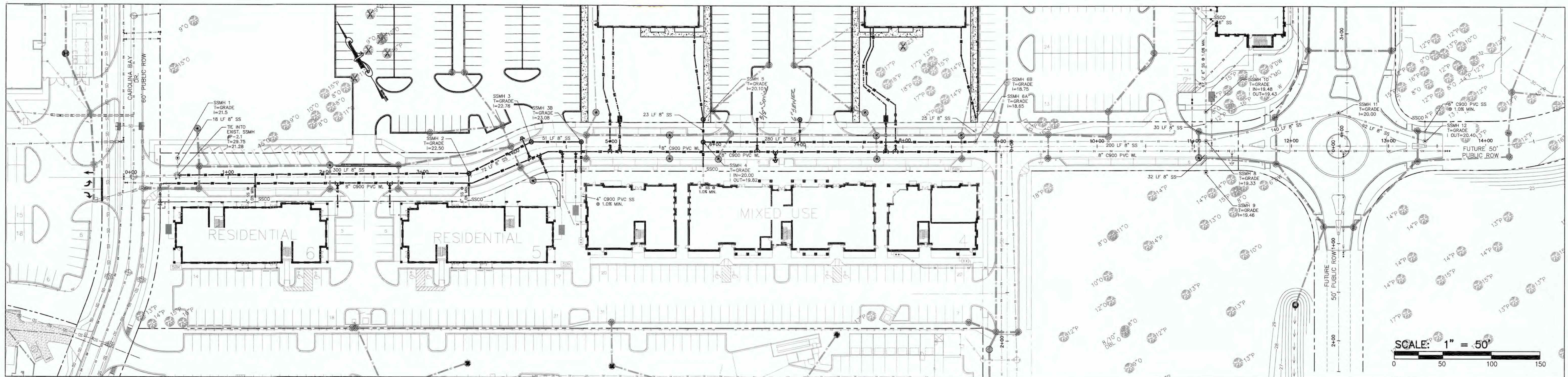
UTILITY PLAN
AUTUMN HALL COMMERCIAL BLDG 3&4
1202 EASTWOOD ROAD
WILMINGTON, NC
NEW HANOVER COUNTY

DEVELOPER
WEB TRASK CO MIKE BROWN
CAPE FEAR COMMERCIAL LLC
6336 OLEANDER DRIVE SUITE 1
WILMINGTON, NC 28403
344-1010 (P) 622-4657 (CELL)

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (919) 287-5900

License #C-3641
21117
DES. JST
CKD. JPN
DRWN. DGC
DATE 12/13/21

C2



CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE. MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SHALL ALSO BE CONSTRUCTED OF DIP.
- ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
- MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.
- WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
- UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
- A MINIMUM OF 10" OF MAIN LINE SHALL BE REPLACED FOR NEW CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.

WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

NCDENR PWSS WATER PERMIT #: _____
WATER CAPACITY: _____ GPD
DWQ SEWER PERMIT #: _____
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

*** ALL SEWER IS PRIVATE.
ALL WATER IS PUBLIC**

REV. NO.	DESCRIPTION	DATE



R1: 3.19.20 REVISED WL TO 12"

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1400 BILLETTE
RIVER RD. NW
WILMINGTON, NC 28403
PHONE: (910) 343-8653

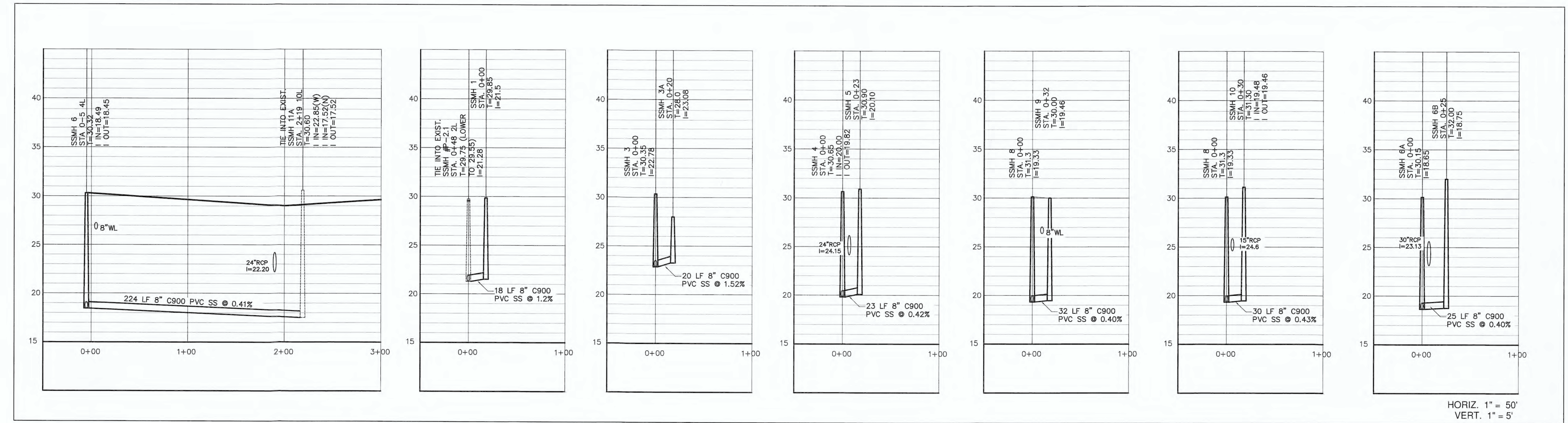
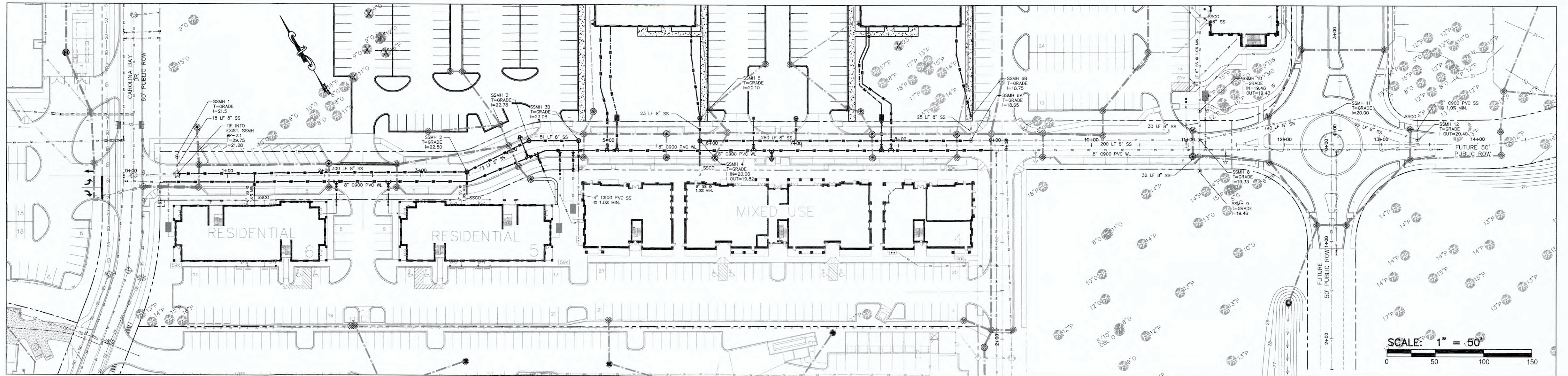
AUTUMN HALL COMMERCIAL PH 1
WATERLINE LAYOUT AND SANITARY SEWER
PLAN & PROFILE

DATE: 12/13/21
SCALE: 1" = 50'
1" = 5'
DRAWN: NKS
CHECKED: JST
PROJECT NO: 21117

CURRITUCK DR.

SHEET NO:

PR1



HORIZ. 1" = 50'
VERT. 1" = 5'

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
- MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
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CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

Name	Date

Planning _____
Traffic _____
Fire _____

NCDENR PWSS WATER PERMIT #: _____
WATER CAPACITY: _____ GPD
DWQ SEWER PERMIT #: _____
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

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ALL WATER IS PUBLIC**

REV. NO.	DESCRIPTION	DATE

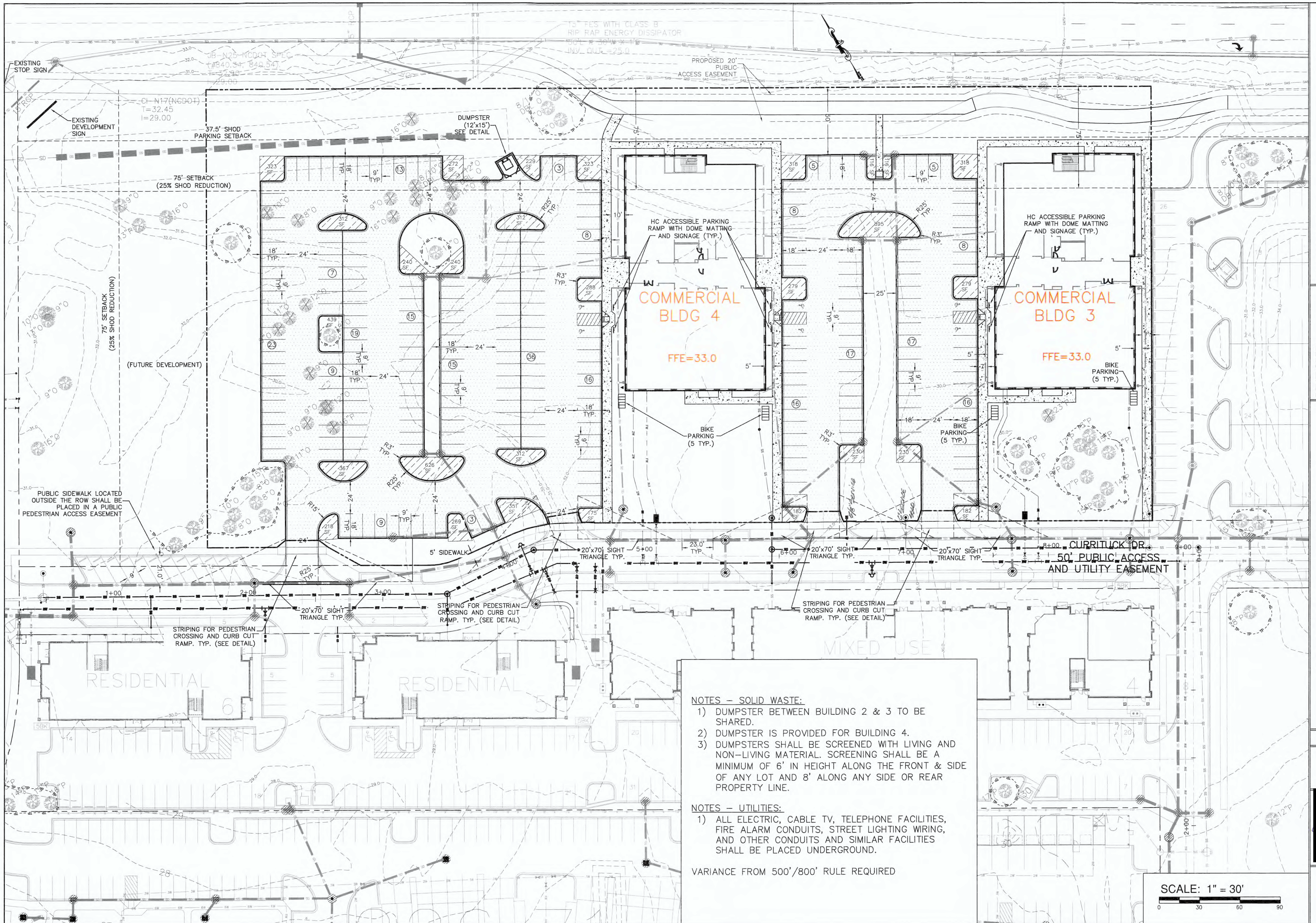


NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1900 EASTWOOD RD., SUITE #111
WILMINGTON, NC 28403
PHONE: 910.343.9653

DATE: 12/13/21
SCALE: 1" = 50'
1" = 5'
DRAWN: NKS
CHECKED: JST
PROJECT NO: 21117

CURRITUCK DR.

SHEET NO:
PR2

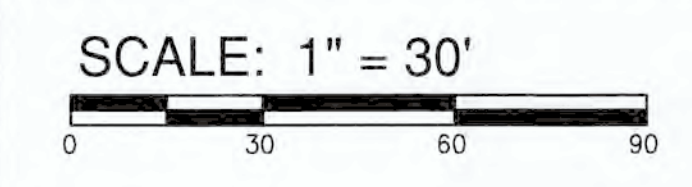


COMMERCIAL BLDG 4
FFE=33.0

COMMERCIAL BLDG 3
FFE=33.0

- NOTES - SOLID WASTE:**
- 1) DUMPSTER BETWEEN BUILDING 2 & 3 TO BE SHARED.
 - 2) DUMPSTER IS PROVIDED FOR BUILDING 4.
 - 3) DUMPSTERS SHALL BE SCREENED WITH LIVING AND NON-LIVING MATERIAL. SCREENING SHALL BE A MINIMUM OF 6' IN HEIGHT ALONG THE FRONT & SIDE OF ANY LOT AND 8' ALONG ANY SIDE OR REAR PROPERTY LINE.
- NOTES - UTILITIES:**
- 1) ALL ELECTRIC, CABLE TV, TELEPHONE FACILITIES, FIRE ALARM CONDUITS, STREET LIGHTING WIRING, AND OTHER CONDUITS AND SIMILAR FACILITIES SHALL BE PLACED UNDERGROUND.

VARIANCE FROM 500'/800' RULE REQUIRED



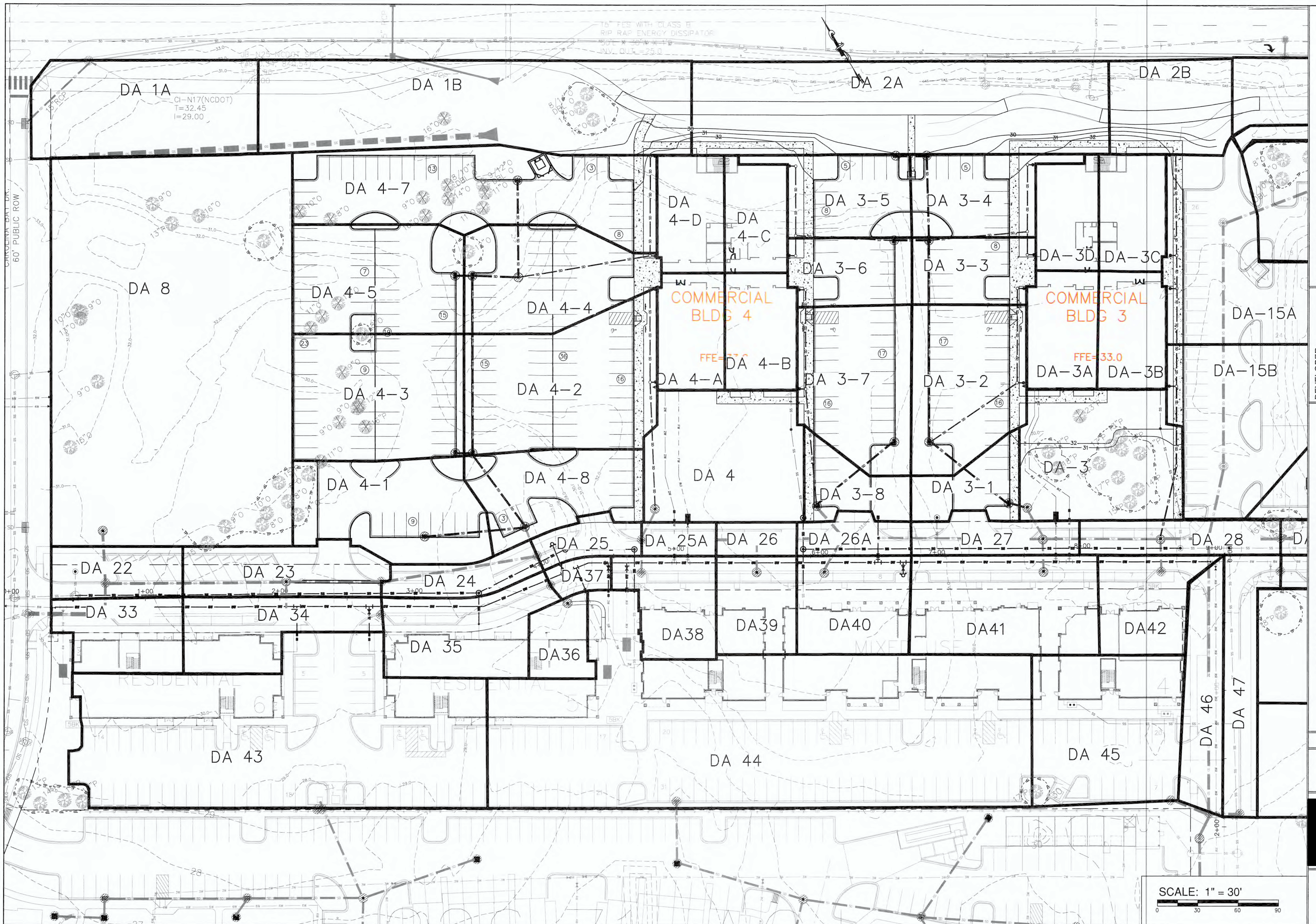
LAYOUT PLAN
AUTUMN HALL COMMERCIAL BLDG 3&4
1202 EASTWOOD ROAD
WILMINGTON, NC
NEW HANOVER COUNTY

DEVELOPER
WEB TRASK CO MIKE BROWN
CAPE FEAR COMMERCIAL LLC
6336 OLEANDER DRIVE, SUITE 1
WILMINGTON, NC 28403
344-1010 (P) 622-4657 (CELL)

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1900 EASTWOOD RD., SUITE #11
WILMINGTON, NC 28403
PHONE (910) 343-9653

License #C-3641
21117
DES. JST
CHK. JPN
DRWN. DGC
DATE 12/13/21

C3



DRAINAGE PLAN
 AUTUMN HALL COMMERCIAL BLDG 3&4
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY

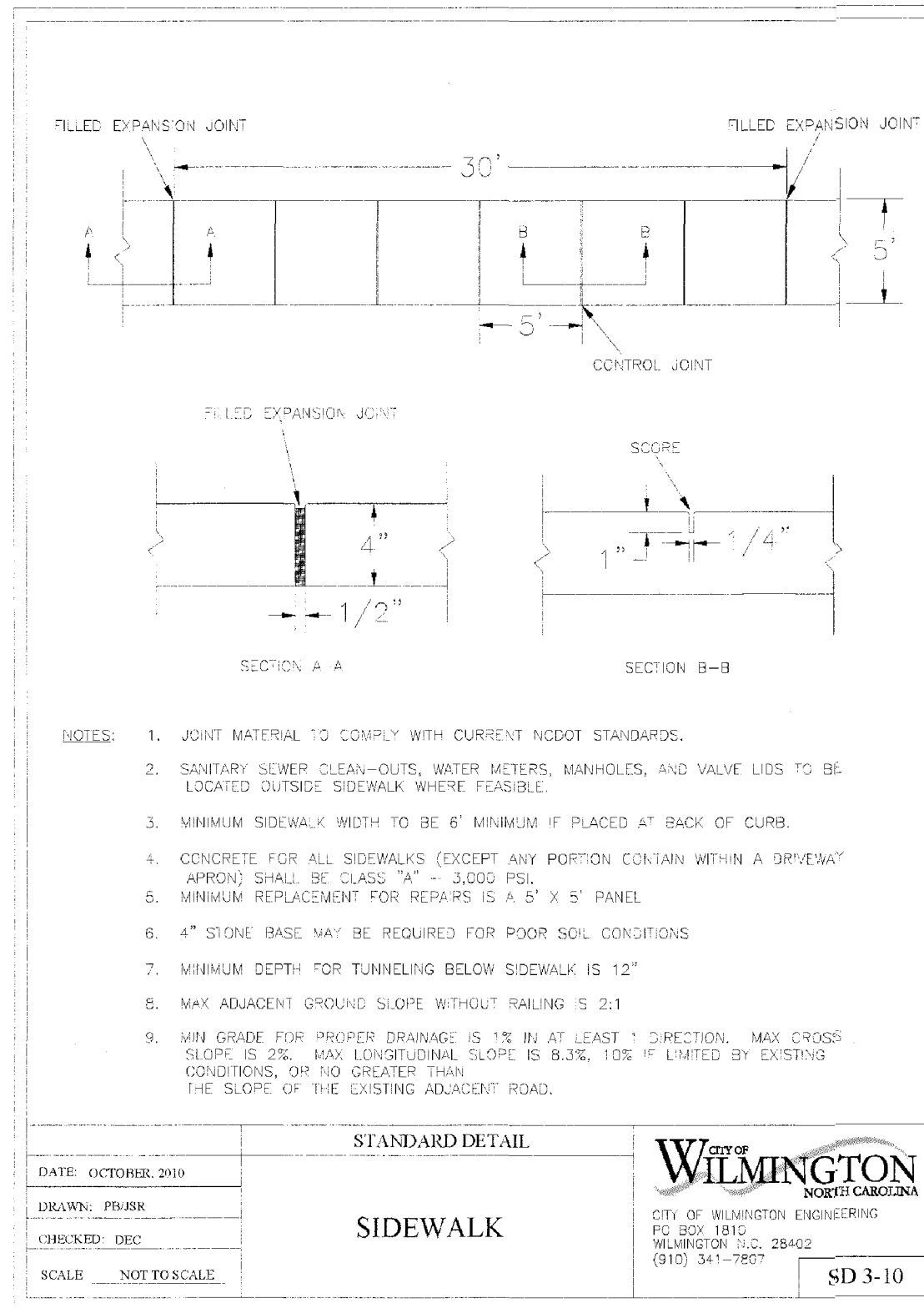
DEVELOPER
 WEB TRASK CO. MIKE BROWN
 CAPE FEAR COMMERCIAL, LLC
 6336 OLEANDER DRIVE, SUITE 1
 WILMINGTON, NC 28403
 344-1010 (P) 622-4857 (CELL)

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1910 EASTWOOD RD., SUITE #11
 WILMINGTON, NC 28403
 PHONE (910) 343-9653

Licence #C-3641
21117
 DES. JST
 CKD. JPN
 DRWN. DGC
 DATE 12/13/21

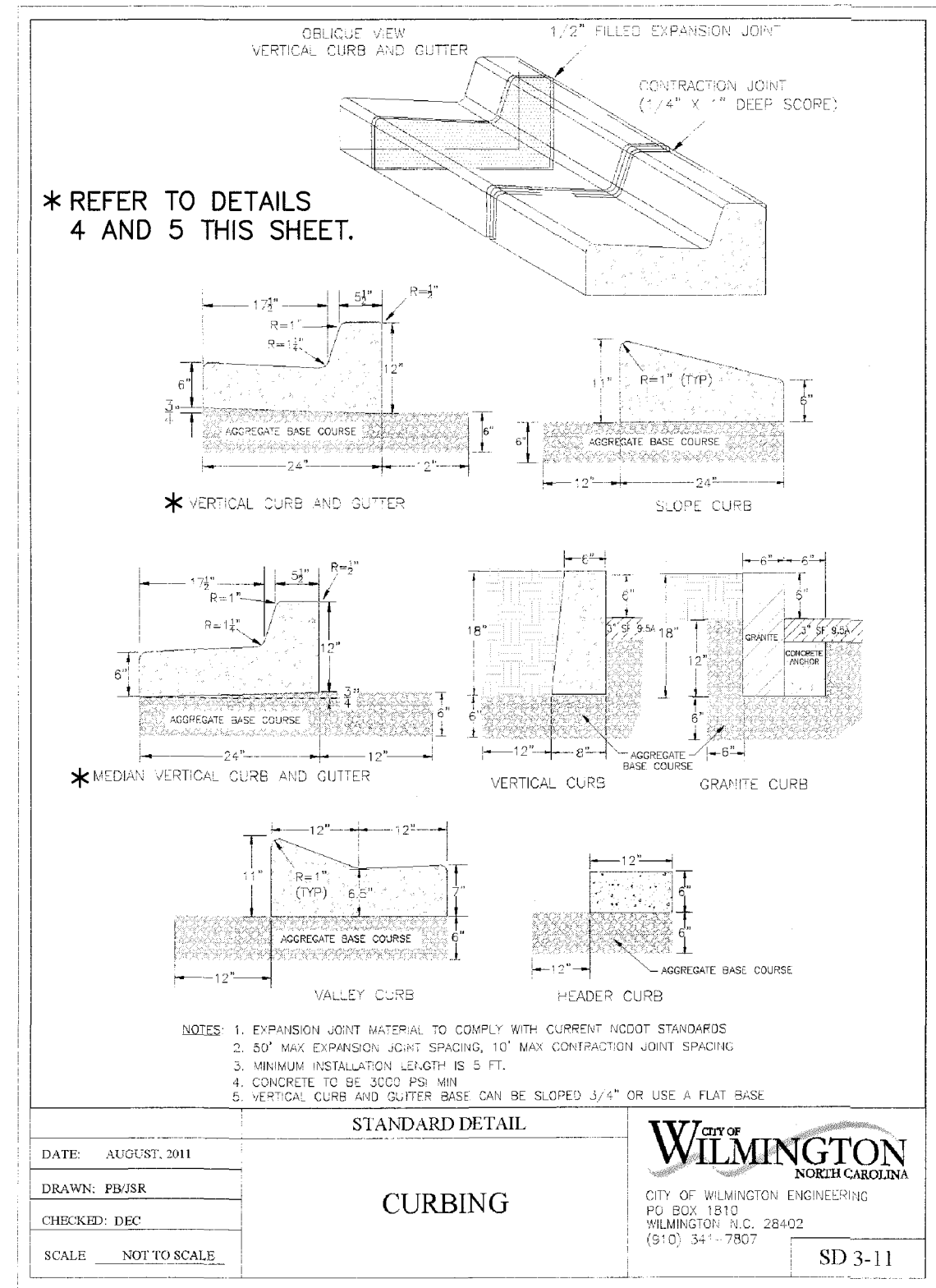
SCALE: 1" = 30'
 0 30 60 90

C4



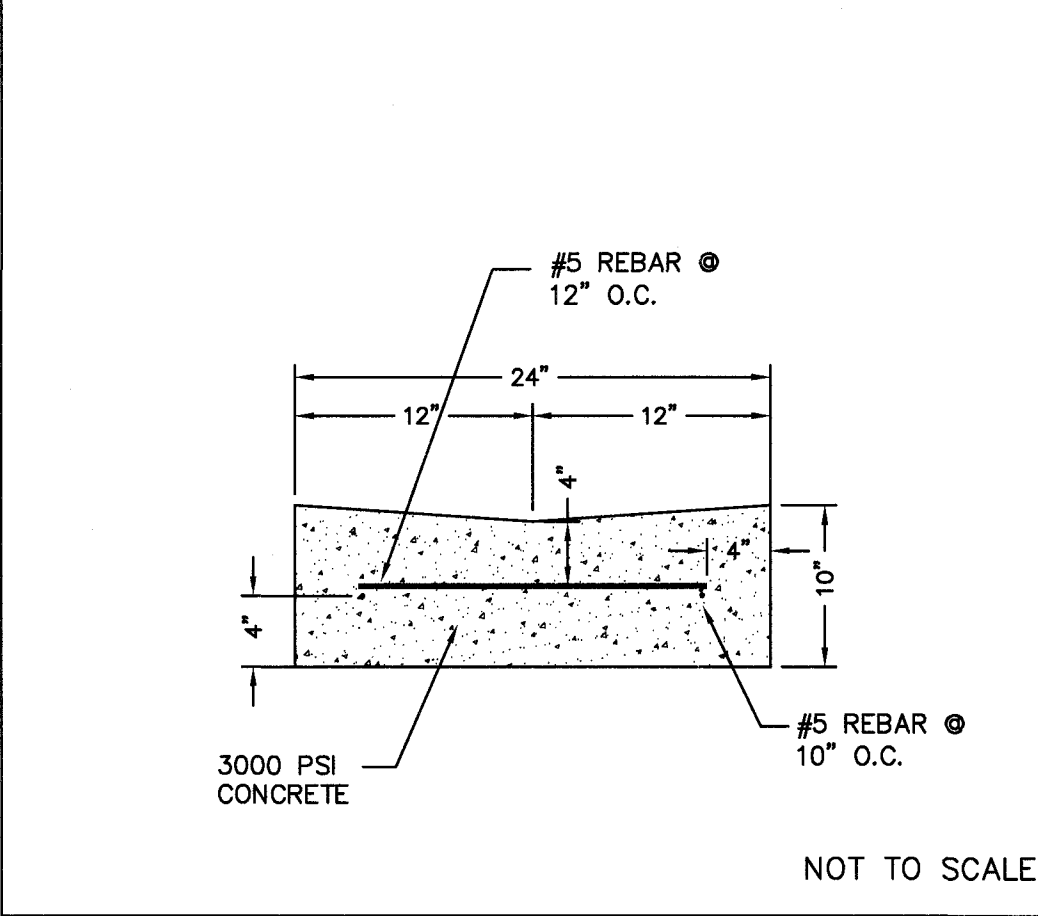
STANDARD DETAIL
SIDEWALK
 DATE: OCTOBER 2ND
 DRAWN: PWBK
 CHECKED: DMC
 SCALE: NOT TO SCALE
 CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 P.O. BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807
 SD 3-10

1 C.O.W. STANDARD SIDEWALK DETAIL

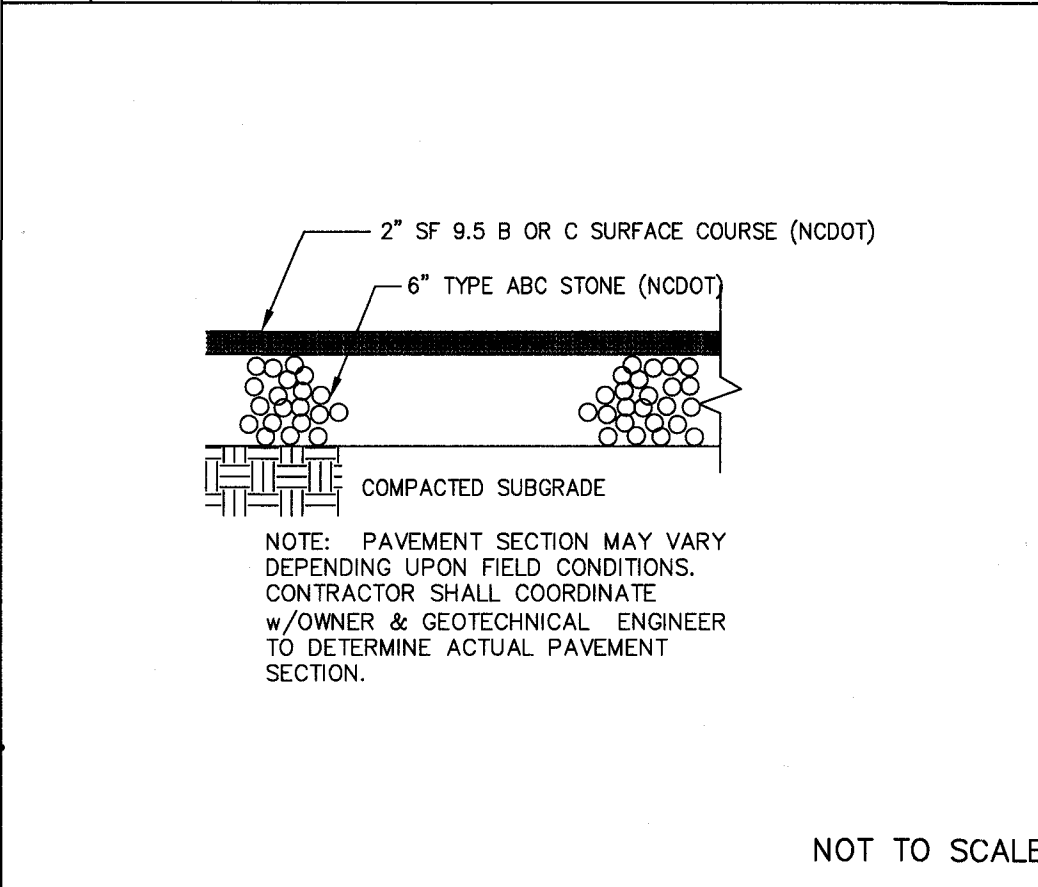


STANDARD DETAIL
CURBING
 DATE: AUGUST 2011
 DRAWN: PWBK
 CHECKED: DMC
 SCALE: NOT TO SCALE
 CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 P.O. BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807
 SD 3-11

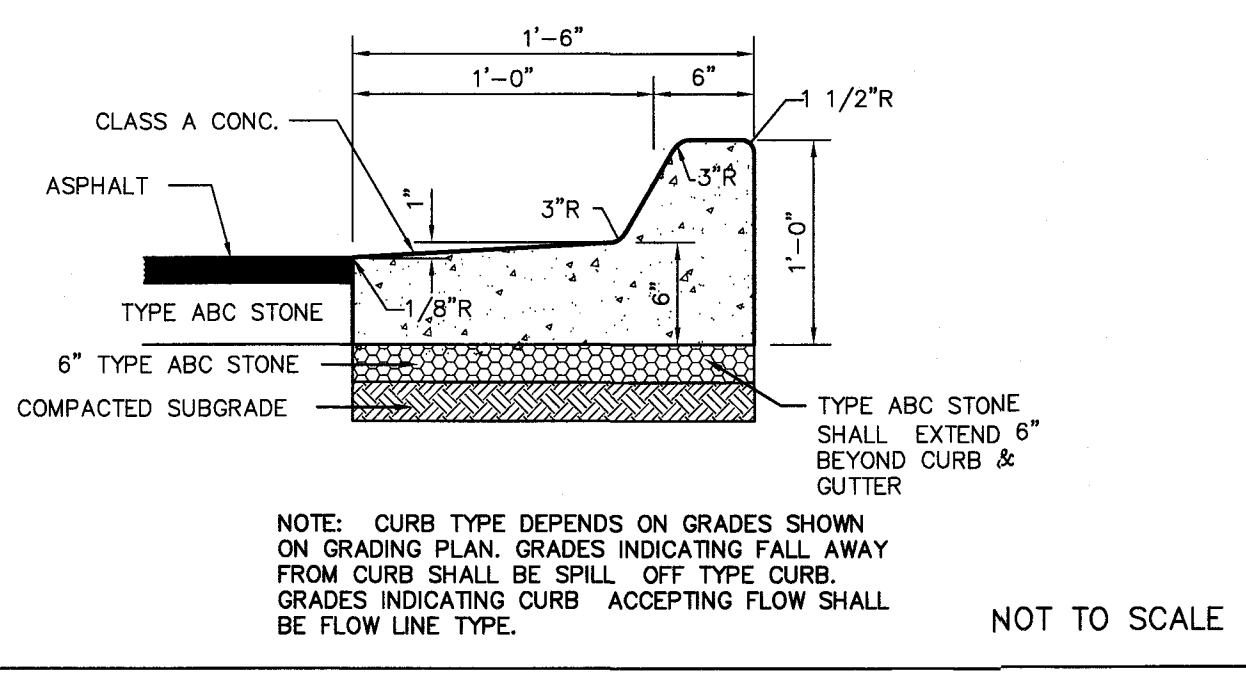
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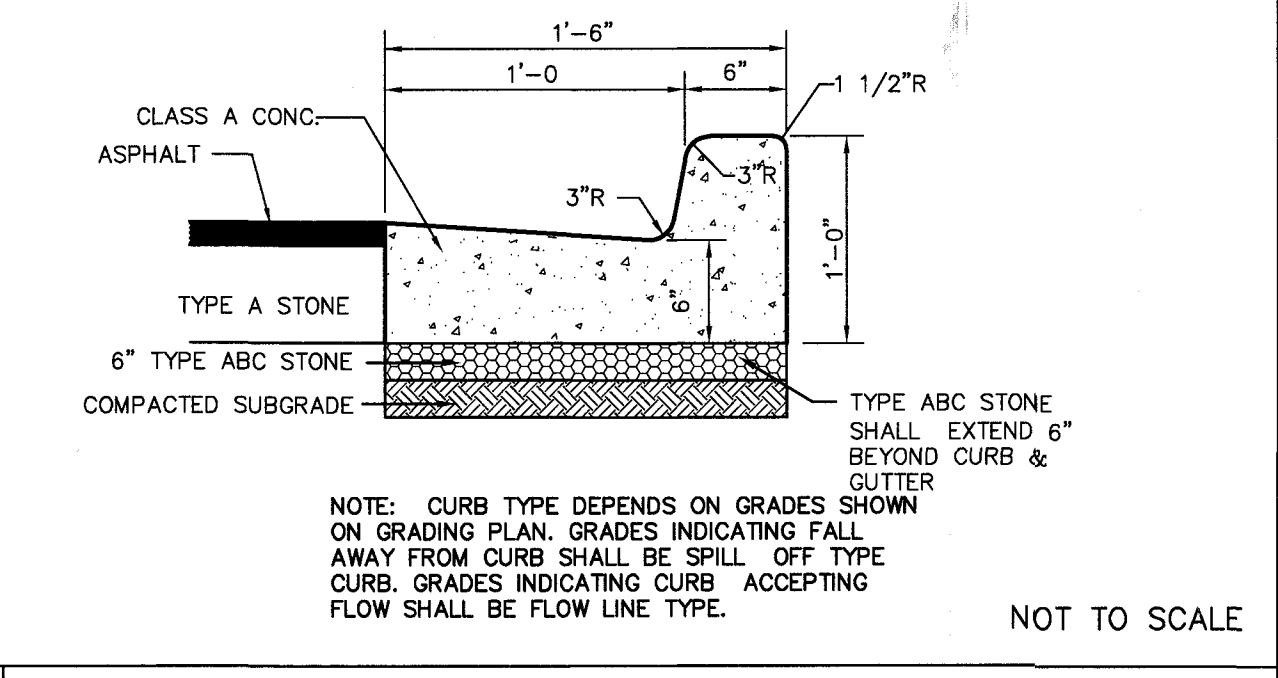
3 REINFORCED VALLEY GUTTER DETAIL



6 TYPICAL PARKING LOT PAVEMENT SECTION



4 SPILL-OFF CURB SECTION



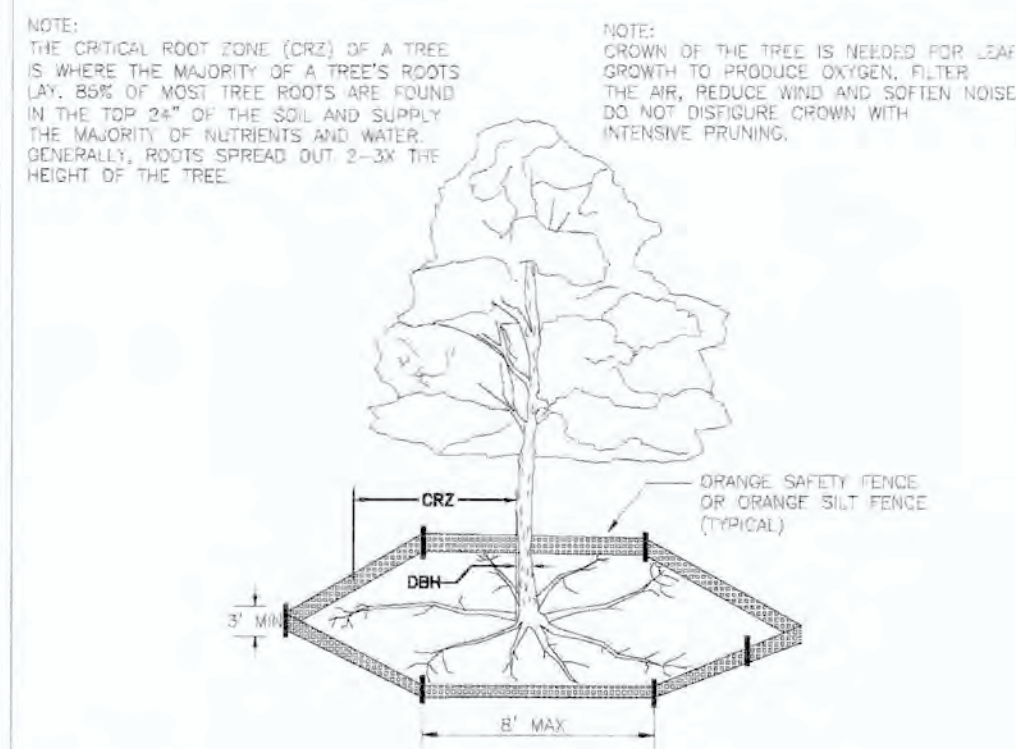
5 FLOW LINE CURB SECTION

NOTES AND DETAILS
 AUTUMN HALL COMMERCIAL BLDG 3&4
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY

DEVELOPER
 WEB TRASK CO MIKE BROWN
 CAPE FEAR COMMERCIAL, LLC
 6336 OLEANDER DRIVE, SUITE 1
 WILMINGTON, NC 28403
 344-1010 (P) 622-4657 (CELL)

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1990 EASTWOOD RD., SUITE #11 1429 ASH-LITTLE RIVER RD., NW
 WILMINGTON, NC 28403 ASH, NC 28020
 PHONE (910) 343-9635 PHONE (910) 287-5900

Licence #C-3641
21117
 DES. JST
 CD. LPN
 DRWN. DGC
 DATE 9/15/21



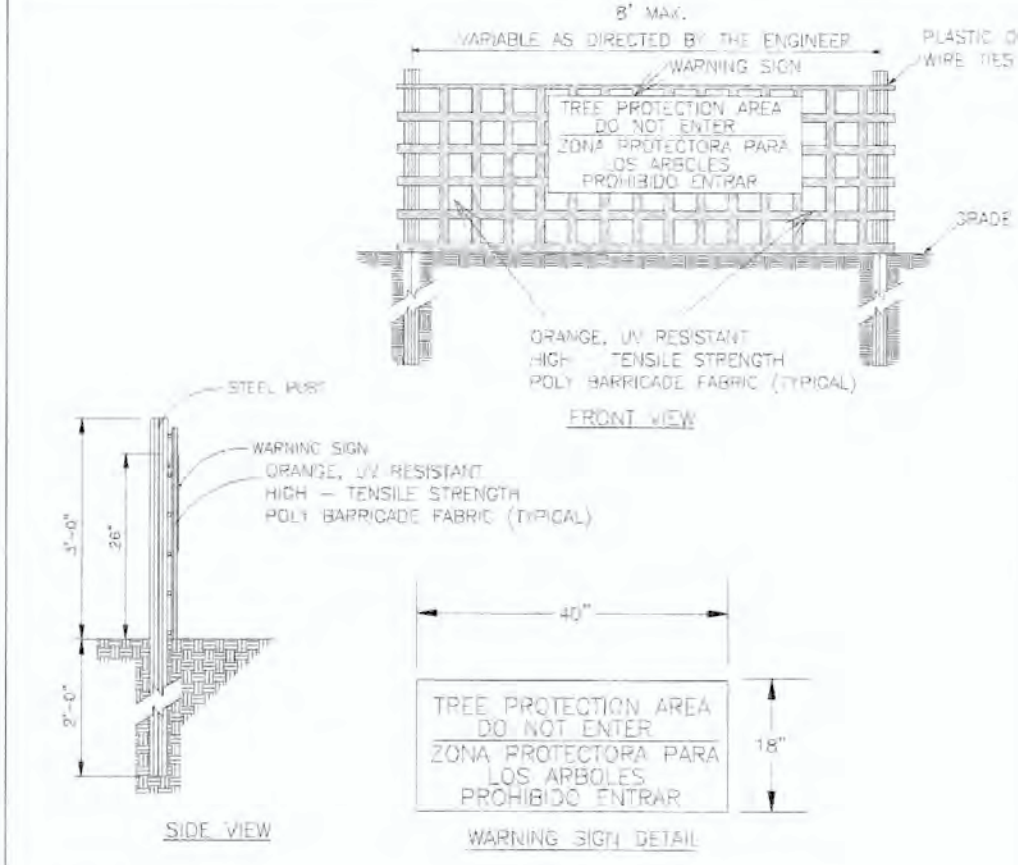
STANDARD DETAIL

TREE PROTECTION DURING CONSTRUCTION

DATE: JAN 2017
 DRAWN BY: JDB
 CHECKED BY: RSD/PJL
 SCALE: NOT TO SCALE

WILMINGTON NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 100 S. 101ST WILMINGTON, NC 28402
 (910) 341-7800

SD 15-09



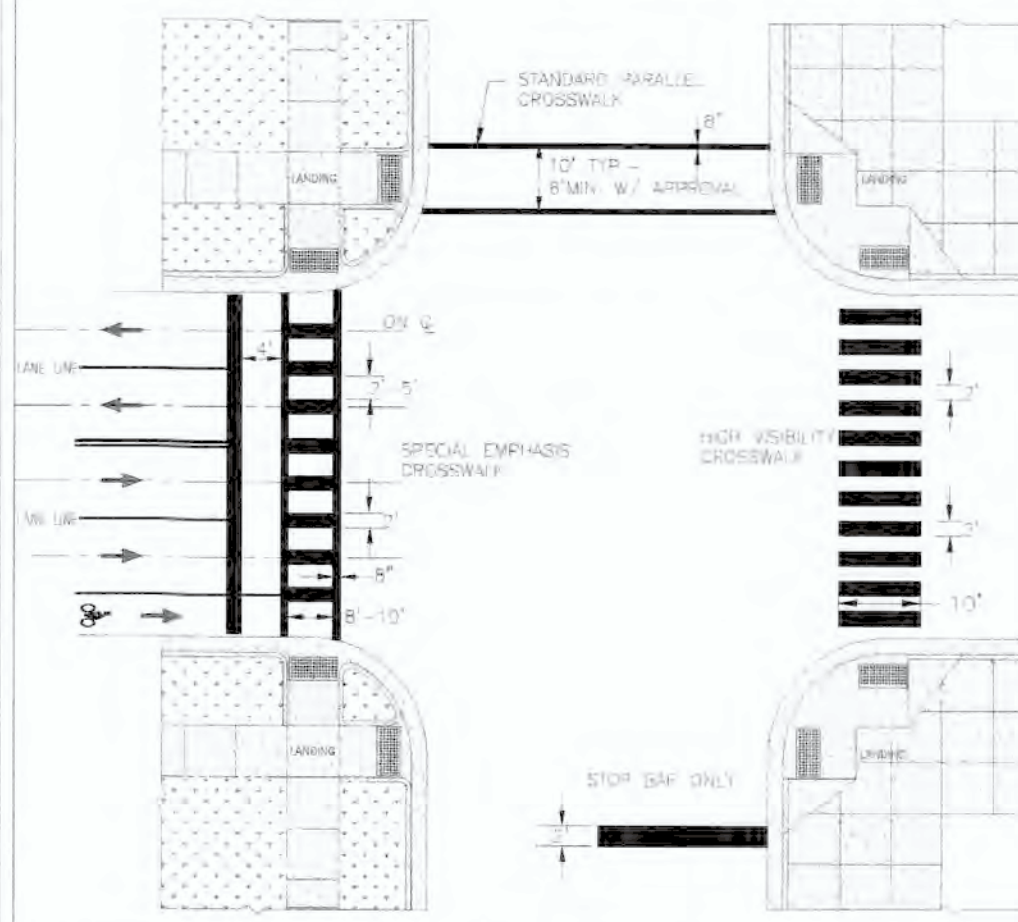
STANDARD DETAIL

TREE PROTECTION DURING CONSTRUCTION

DATE: JAN 2017
 DRAWN BY: JDB
 CHECKED BY: RSD/PJL
 SCALE: NOT TO SCALE

WILMINGTON NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 100 S. 101ST WILMINGTON, NC 28402
 (910) 341-7800

SD 15-09



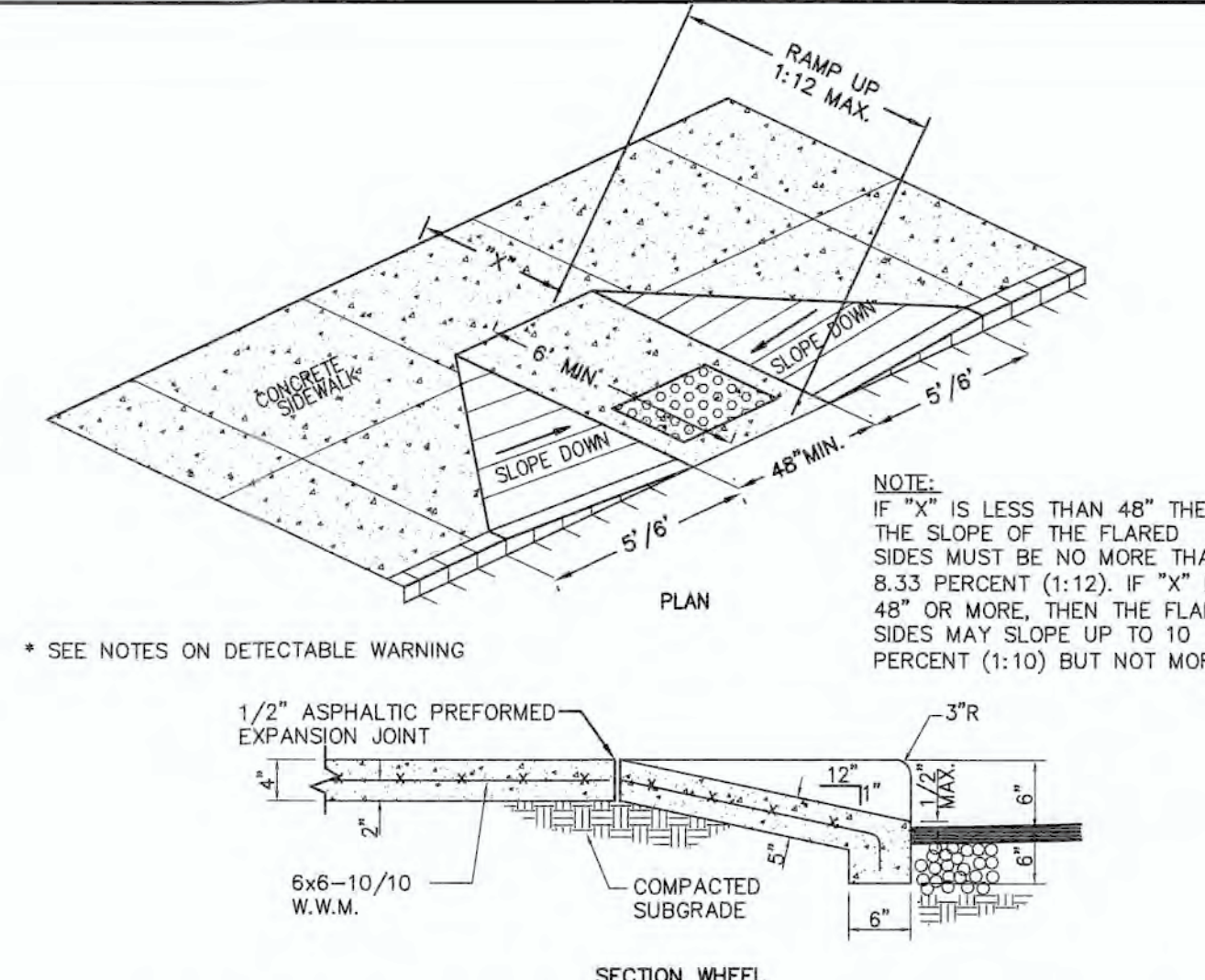
STANDARD DETAIL

CROSSWALK PAVEMENT MARKINGS

DATE: FEBRUARY 2012
 DRAWN BY: JDB
 CHECKED BY: RSD/PJL
 SCALE: NOT TO SCALE

WILMINGTON NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 100 S. 101ST WILMINGTON, NC 28402
 (910) 341-7800

SD 11-11



STANDARD DETAIL

SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL

DATE: FEBRUARY 2012
 DRAWN BY: JDB
 CHECKED BY: RSD/PJL
 SCALE: NOT TO SCALE

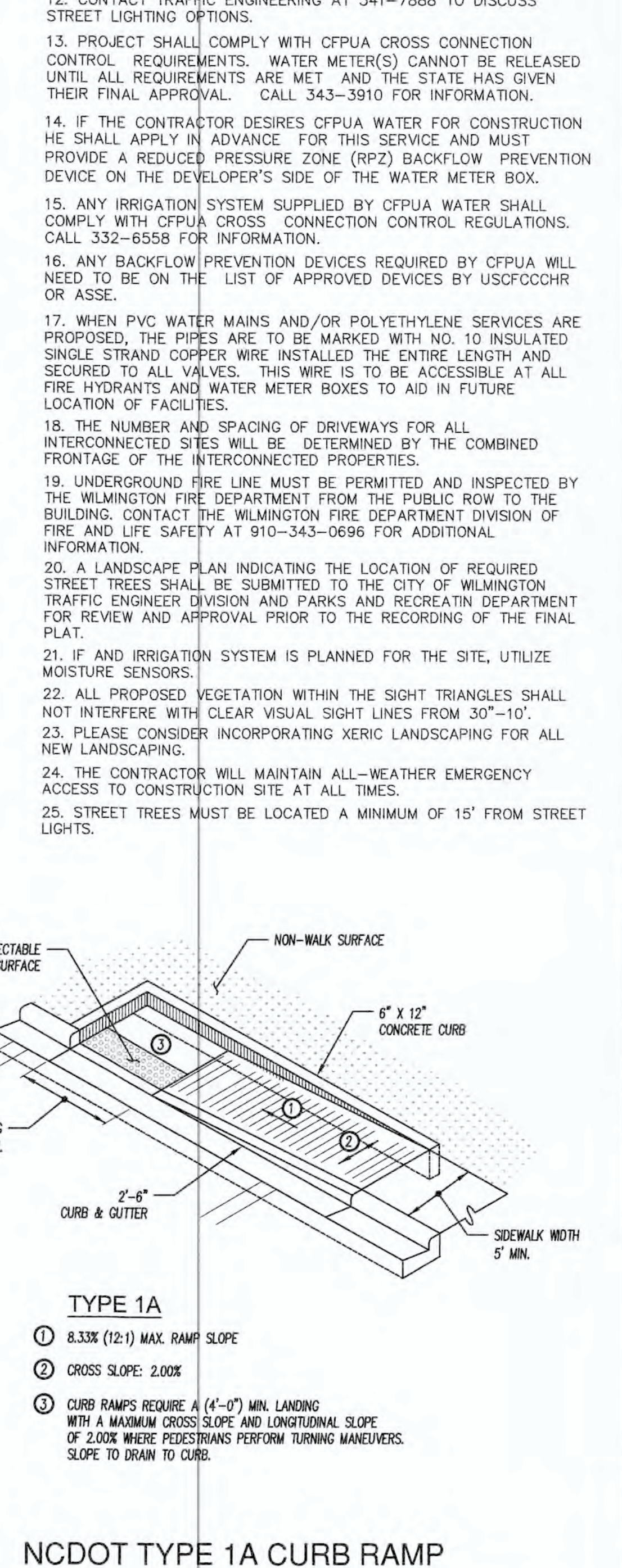
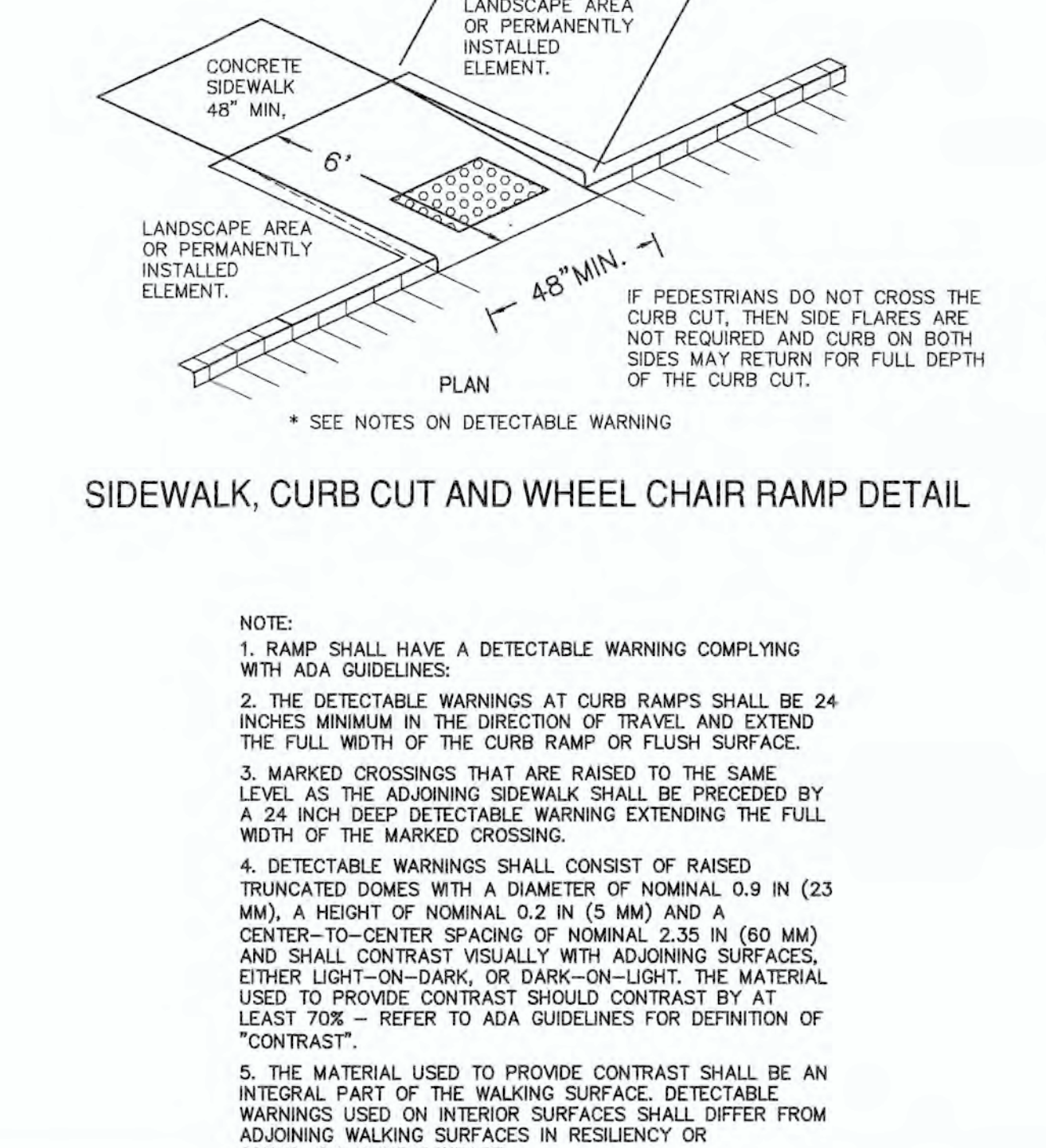
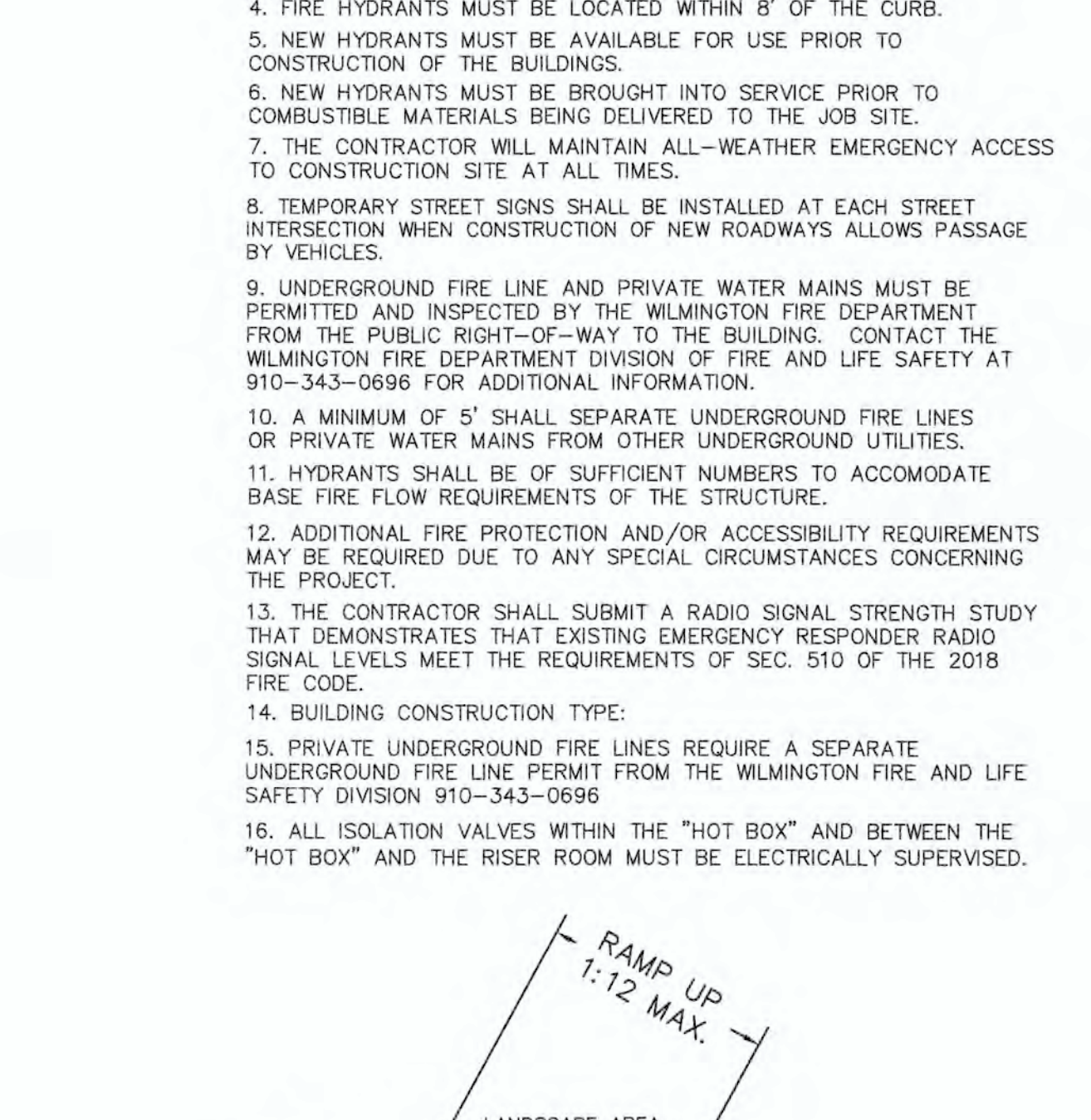
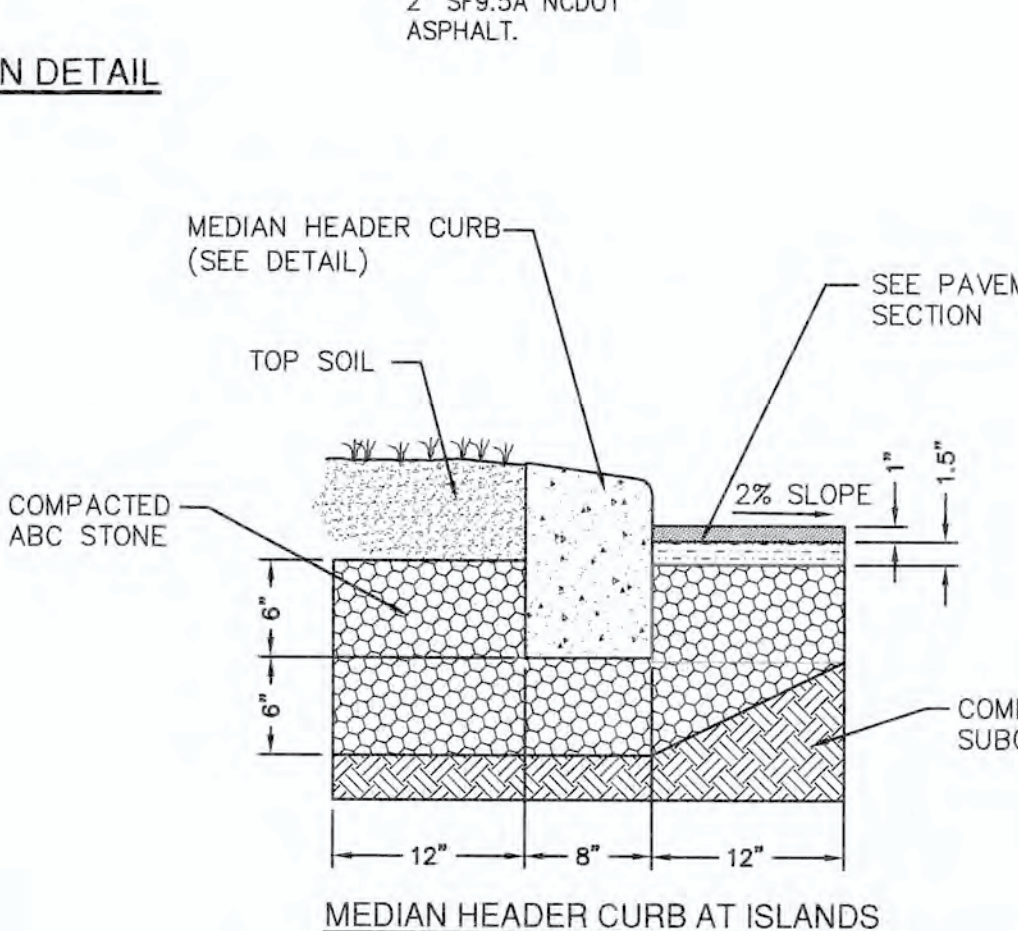
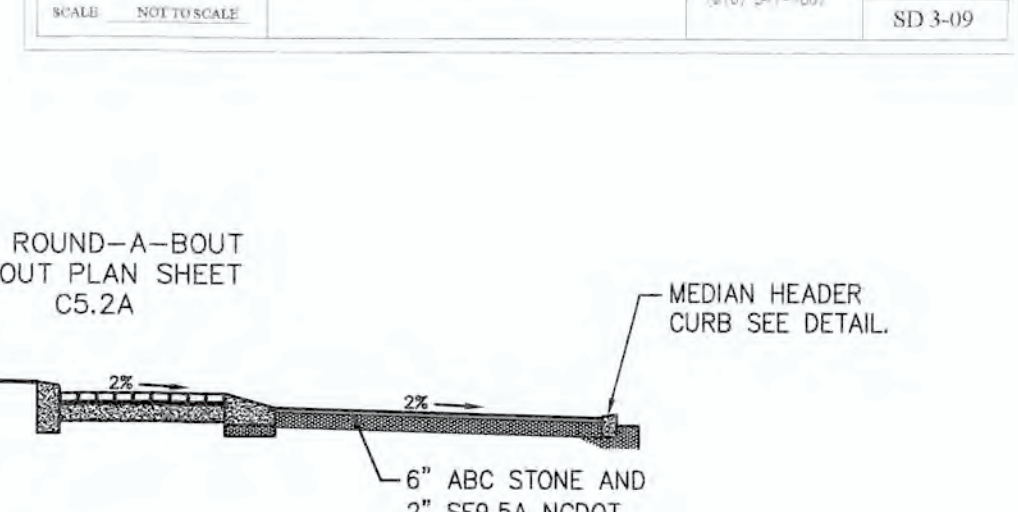
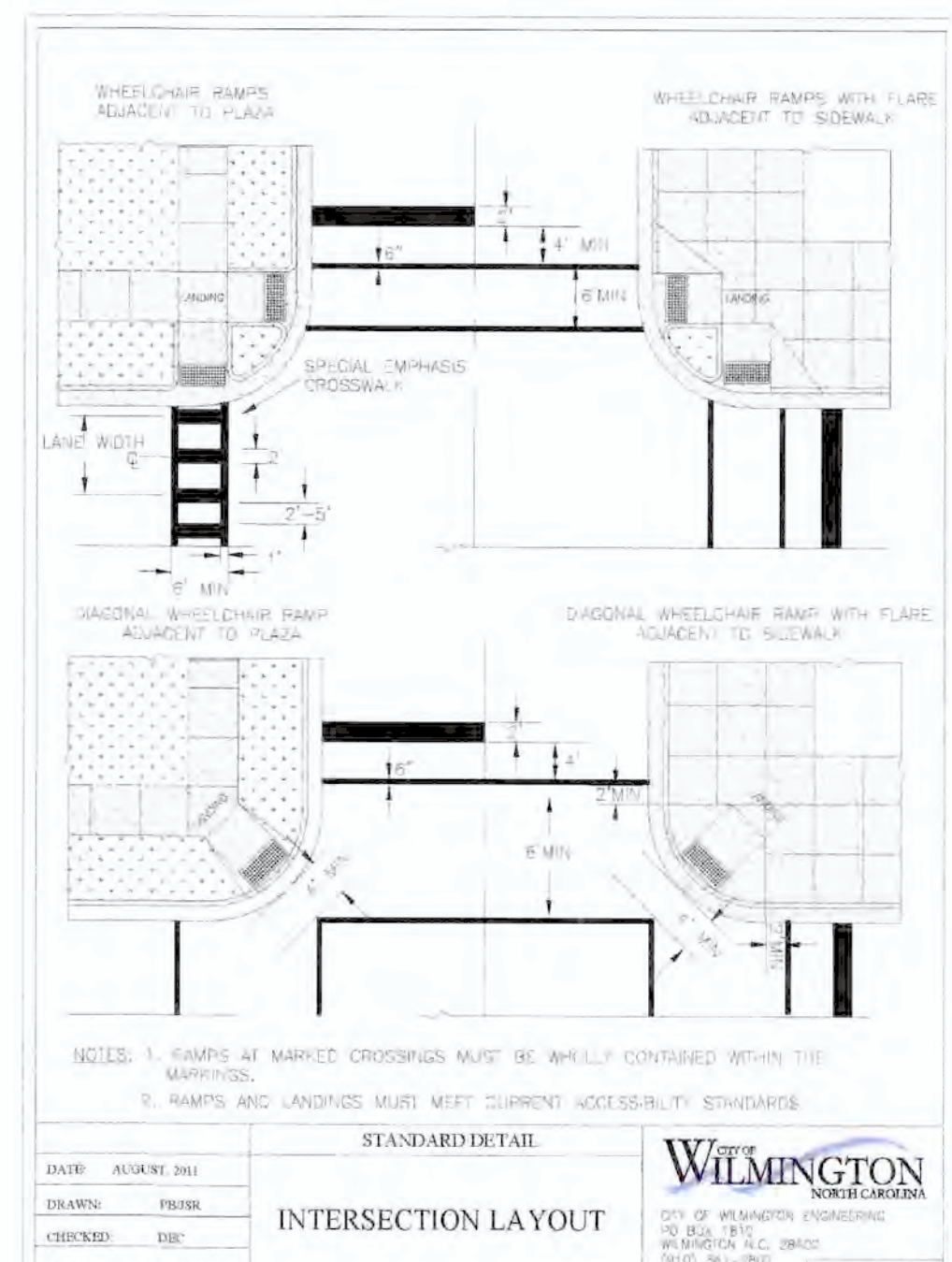
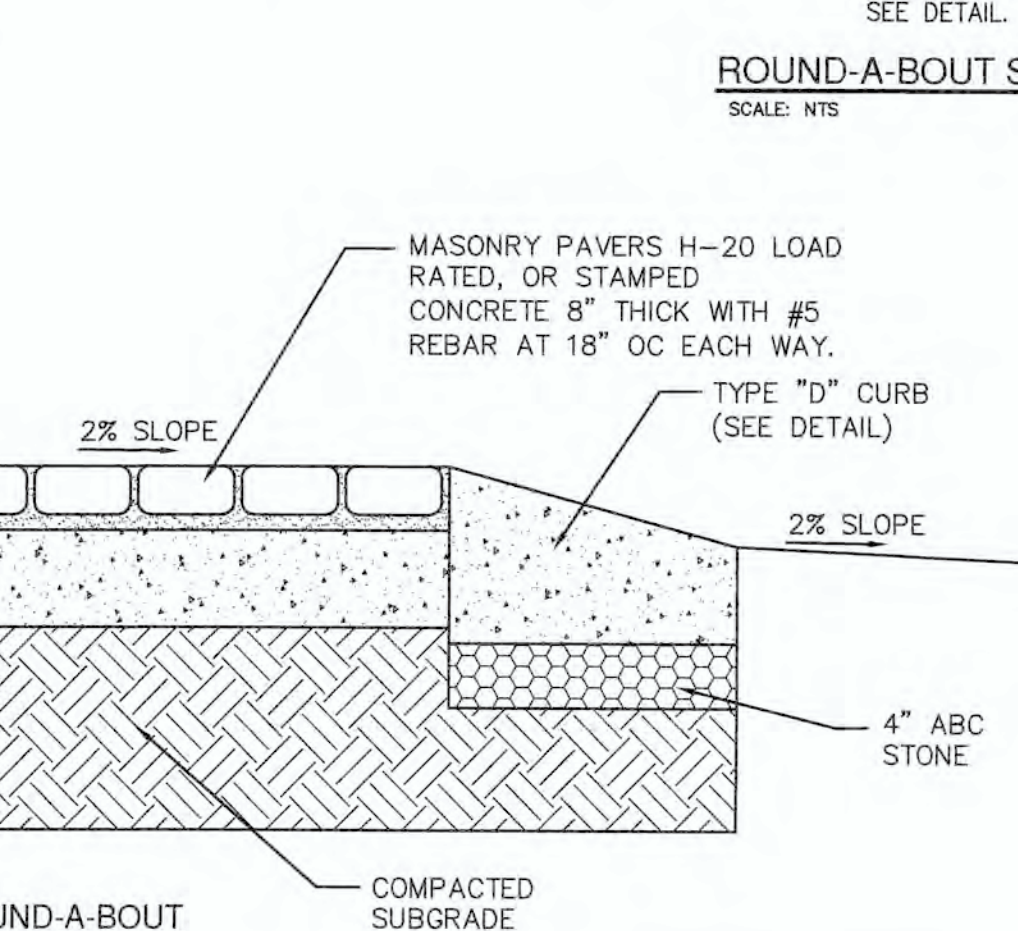
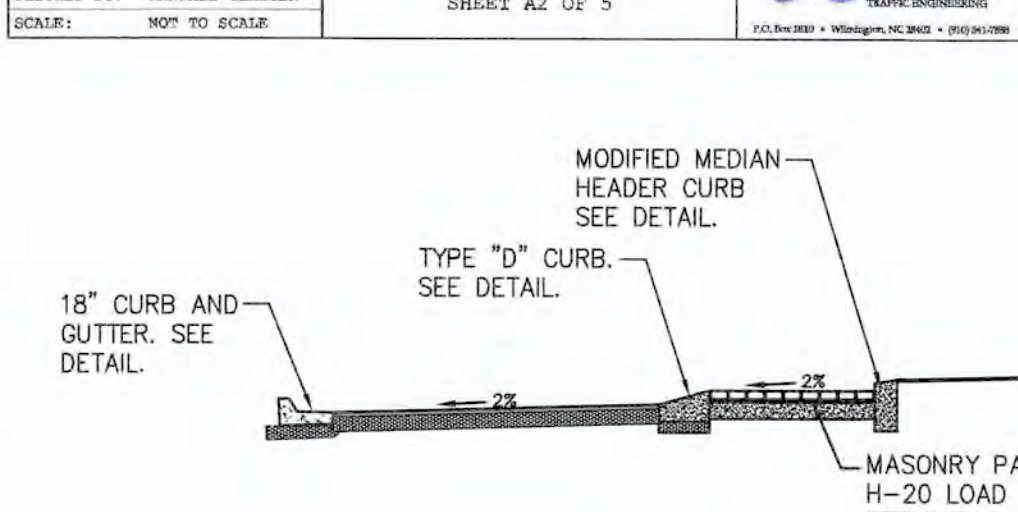
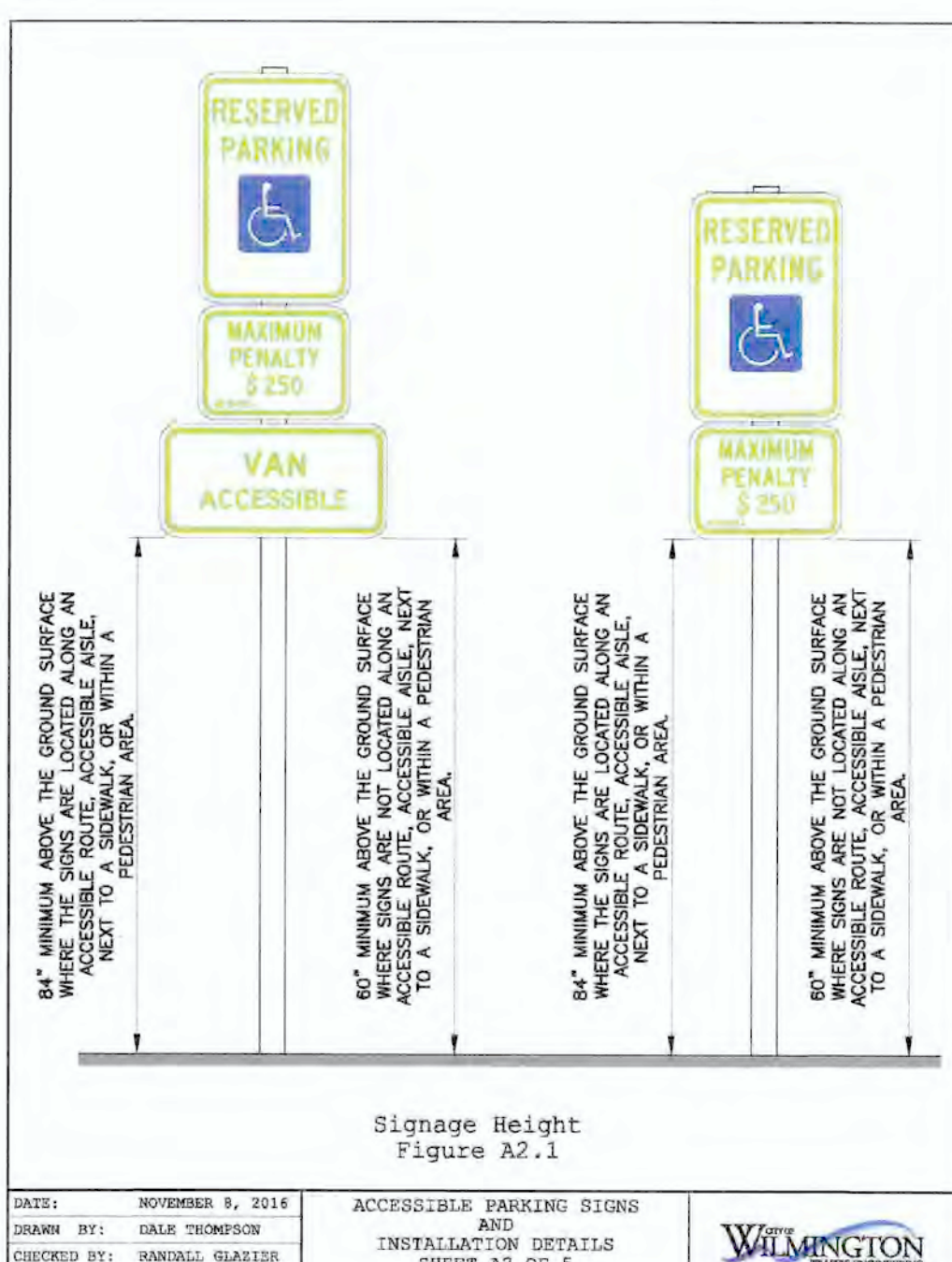
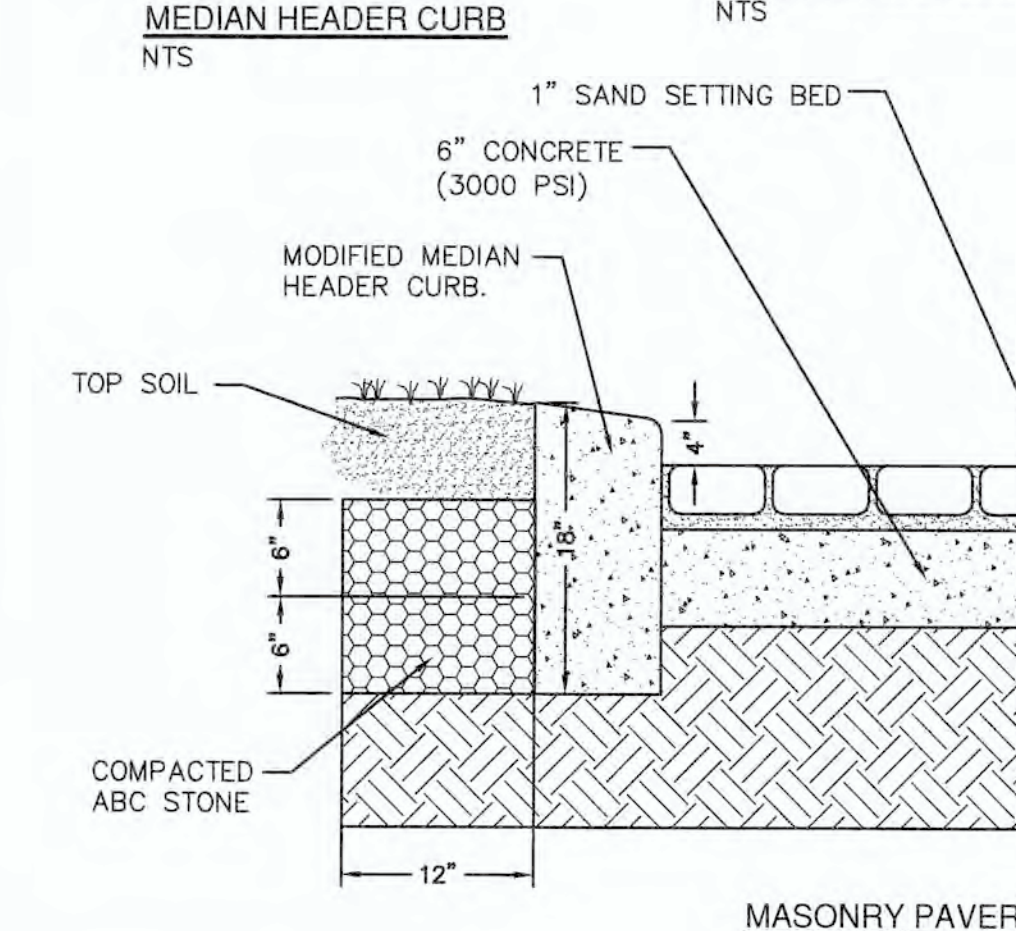
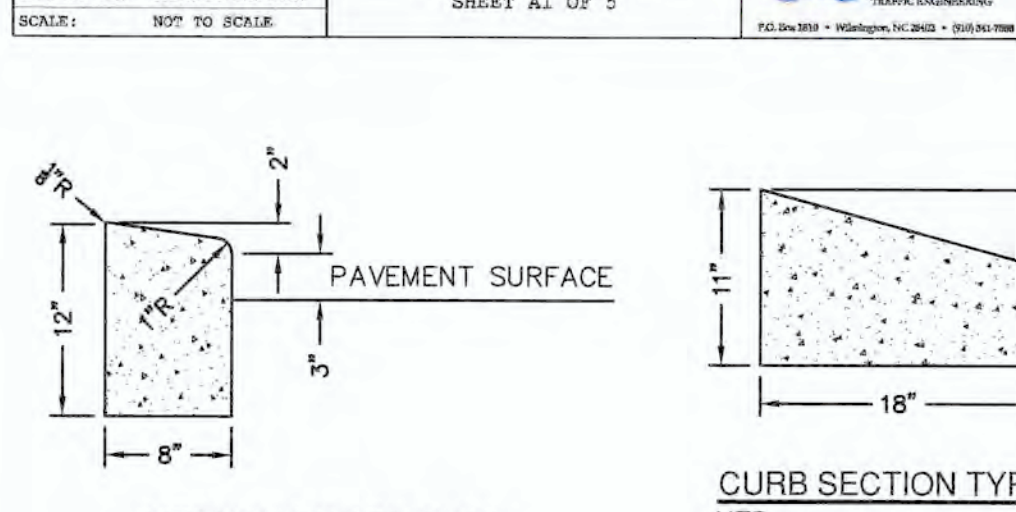
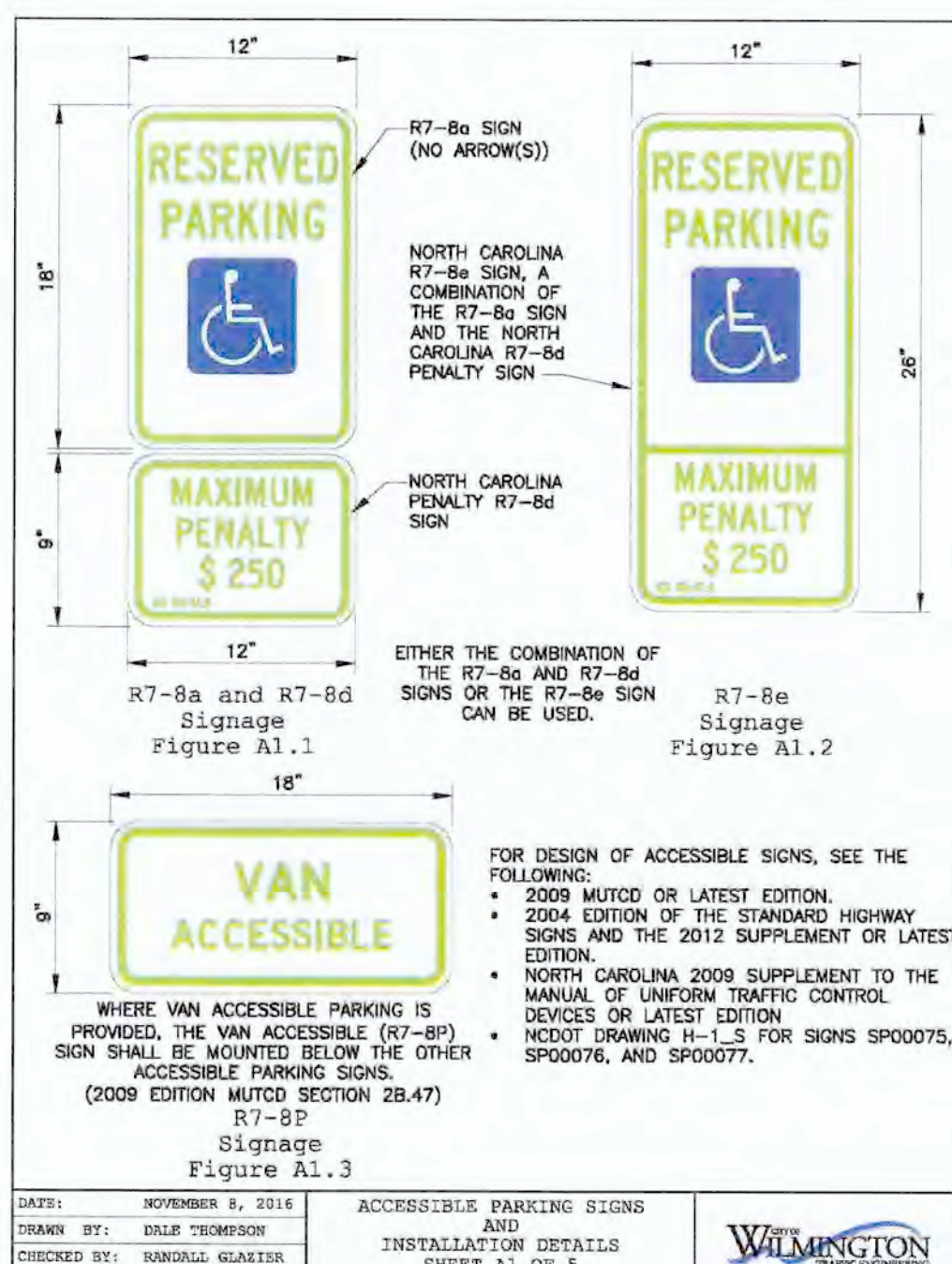
WILMINGTON NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 100 S. 101ST WILMINGTON, NC 28402
 (910) 341-7800

SD 11-11

- CITY OF WILMINGTON STANDARD NOTES:**
- CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING ANY DIGGING AT 1-800-632-4949.
 - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 - ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
 - ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
 - INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 - IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. POSTED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
 - CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON TRAFFIC ENGINEERING REGARDING THE UTILITIES IN THE RIGHT-OF-WAY.
 - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5899 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
 - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, AND CURBING WILL BE REPLACED.
 - CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
 - PROJECT SHALL COMPLY WITH CFWPA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
 - IF THE CONTRACTOR DESIRES CFWPA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
 - ANY IRRIGATION SYSTEM SUPPLIED BY CFWPA WATER SHALL COMPLY WITH CFWPA CROSS CONNECTION CONTROL REGULATIONS. CALL 332-6558 FOR INFORMATION.
 - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFWPA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USF0C0CHR OR ASSE.
 - WHEN PVC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED SINGLE STRAND COPPER WIRE INSTALLED THE ENTIRE LENGTH AND SECURED TO ALL VALVES. THIS WIRE IS TO BE ACCESSIBLE AT ALL FIRE HYDRANTS AND WATER METER BOXES TO AID IN FUTURE LOCATION OF UTILITIES.
 - THE NUMBER AND SPACING OF DRIVEWAYS FOR ALL INTERCONNECTED SITES WILL BE DETERMINED BY THE COMBINED FRONTAGE OF THE INTERCONNECTED PROPERTIES.
 - UNDERGROUND FIRE LINE MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC ROW TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.
 - LANDSCAPE PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEER DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
 - IF AN IRRIGATION SYSTEM IS PLANNED FOR THE SITE, UTILIZE MOISTURE SENSORS.
 - ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.
 - PLEASE CONSIDER INCORPORATING XERIC LANDSCAPING FOR ALL NEW LANDSCAPING.
 - THE CONTRACTOR WILL MAINTAIN ALL WEATHER EMERGENCY ACCESS TO CONSTRUCTION SITE AT ALL TIMES.
 - STREET TREES MUST BE LOCATED A MINIMUM OF 15' FROM STREET LIGHTS.

NOTES AND DETAILS
AUTUMN HALL COMMERCIAL BLDG 384
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY

DEVELOPER
 WEB TRASK CO. MIKE BROWN
 CAPE FEAR COMMERCIAL, LLC
 6338 OLEANDER DRIVE, SUITE 1
 WILMINGTON, NC 28403
 344-1010 (P) 622-4867 (CELL)



NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.

1900 EASTWOOD RD., SUITE #11
 WILMINGTON, NC 28403
 PHONE: (910) 343-9653

1429 ASHLITTLE RIVER RD., NW
 ASH, NC 28420
 PHONE: (910) 281-5900

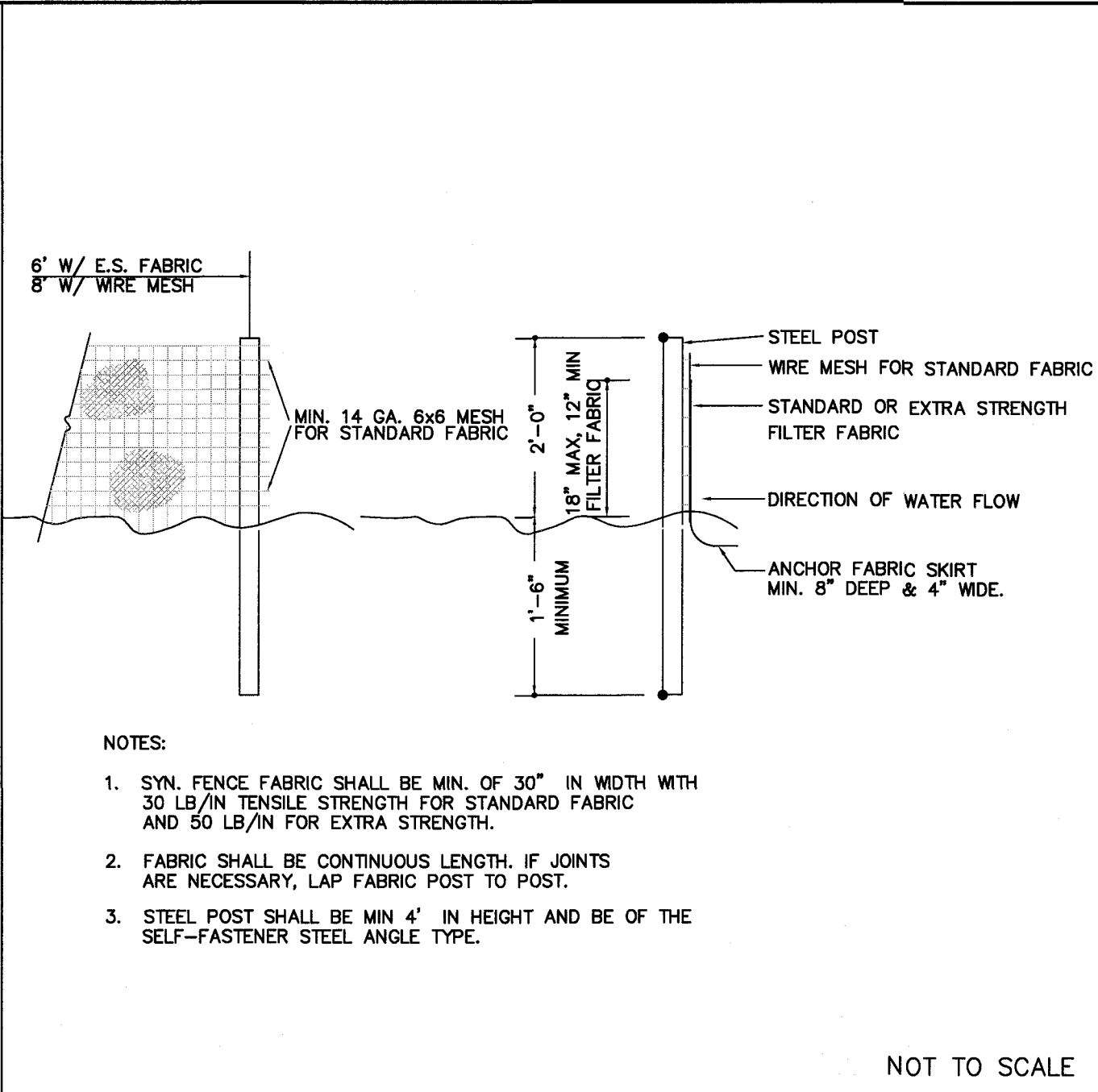
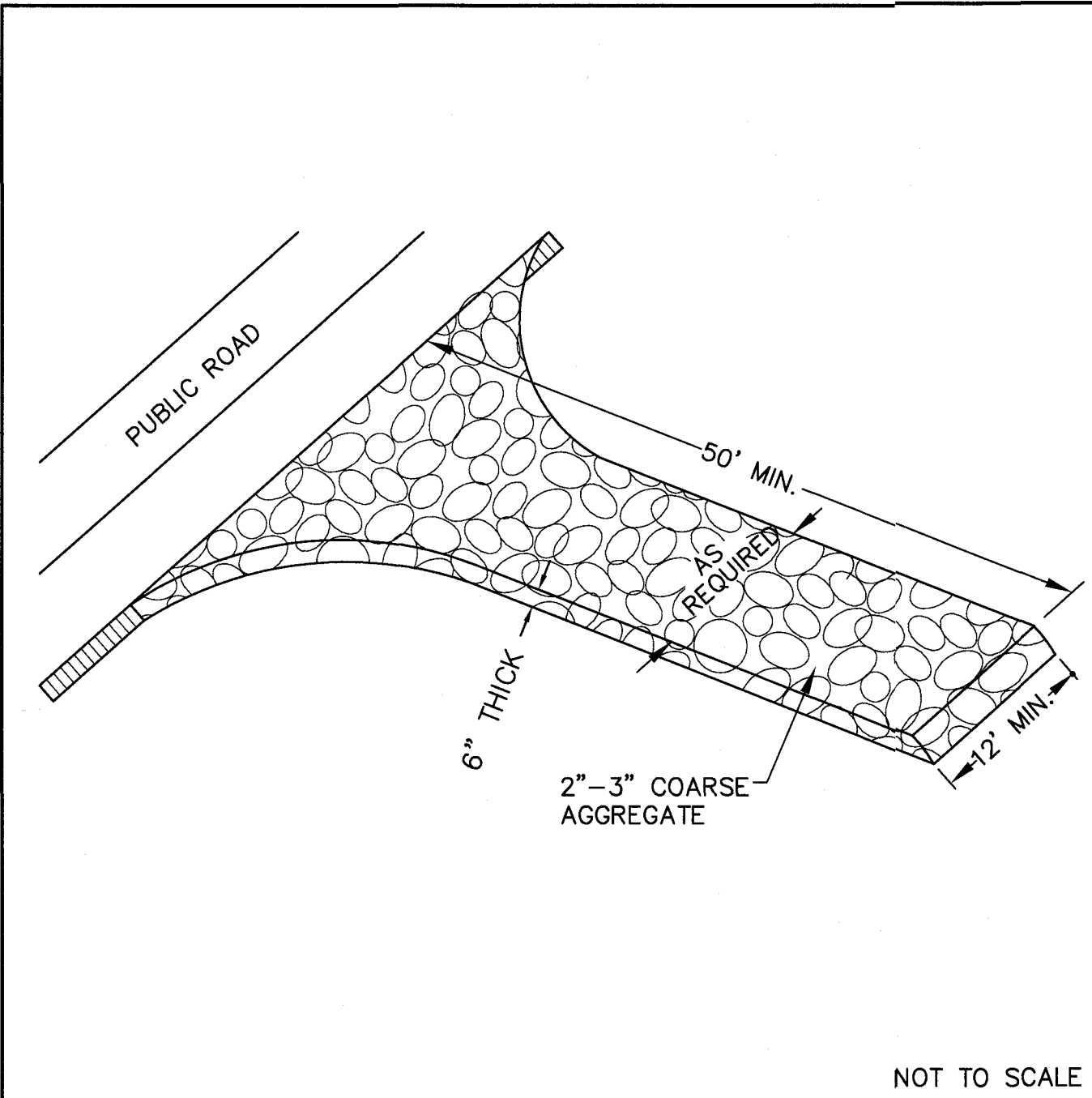
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DES. JST
 OKD. JPN
 DRWN. DGC

DATE 12/08/21

C5.1



1 TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE

2 TEMPORARY SILT FENCE

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
RYE (GRAIN)	120	2.75

SEEDING DATES:
 MOUNTAINS – AUG. 15 – DEC. 15
 COASTAL PLAIN AND PIEDMONT – AUG. 15 – DEC. 15

SOIL AMENDMENTS:
 FOLLOW SOIL TEST OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER.

MULCH:
 APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
 REPAIR AND REFERTILIZE DAMAGE AREAS IMMEDIATELY. TOP DRESS WITH 50 lb/acre OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15. OVERSEED WITH 50 lb/acre KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
GERMAN MILLET	40	0.92

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 lb/acre.

SEEDING DATES:
 MOUNTAINS – MAY 15 – AUG. 15
 PIEDMONT – MAY 1 – AUG. 15
 COASTAL PLAIN – APR. 15 – AUG. 15

SOIL AMENDMENTS:
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.

MULCH:
 APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
 REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
RYE (GRAIN)	120	2.75
ANNUAL LESPEDEZA	50	1.15

IN THE PIEDMONT AND COASTAL PLAIN, KOREAN (MOUNTAINS) LESPEDEZA MAY BE SUBSTITUTED AT A RATE OF 50 lb/acre.

SEEDING DATES:
 MOUNTAINS – ABOVE 2,500 FEET: FEB. 15 – MAY 15
 BELOW 2,500 FEET: FEB. 1 – MAY 1
 PIEDMONT – JAN. 1 – MAY 1
 COASTAL PLAIN – JAN. 1 – MAY 1
 MOUNTAINS – DEC. 1 – APRIL 15

SOIL AMENDMENTS:
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.

MULCH:
 APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
 REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

PERMANENT SEEDING RECOMMENDATIONS FOR FALL AND EARLY SPRING

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
TALL FESCUE	80	1.84
PENSACOLA BAHIAGRASS	50	1.15
SERICEA LESPEDEZA	30	0.69
KOBE LESPEDEZA	10	0.23

SEEDING NOTES:
 1. FROM SEPT. 1 THRU MAR. 1, USE UNSCARIFIED SERICEA SEED.
 2. ON POORLY DRAINED SITES OMIT SERICEA AND INCREASE KOBE TO 30 lbs/acre.
 3. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND INCREASE KOBE TO 40 lbs/acre.

NURSE PLANTS: BETWEEN APR. 15 AND AUG. 15, ADD 10 lbs/acre GERMAN MILLET OR 15 lbs/acre SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15 ADD 25 lbs/acre RYE (GRAIN).

SEEDING DATES:
 EARLY SPRING: FEB. 15-MAR. 20
 FALL: SEPT. 1-SEPT. 30
 POSSIBLE: FEB. 15-APR. 30
 SEPT. 1-OCT. 31

SOIL AMENDMENTS:
 APPLY LIME AND FERTILIZE ACCORDING TO SOIL TESTS, OR APPLY 3,000-5,000 lbs/acre (68.9-114.8 lbs/1,000 sf) GROUND AGRICULTURAL LIMESTONE (USE THE LOWER RATE ON SANDY SOILS) AND 1,000 lbs/acre (22.9 lbs/1,000 sf) 10-10-10 FERTILIZER.

MULCH:
 APPLY 4,000 lb/acre (91.8 lbs/1,000 sf) GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
 IF GROWTH IS LESS THAN FULLY ADEQUATE, REFERTILIZE IN THE SECOND YEAR, ACCORDING TO SOIL TESTS OR TOPDRESS WITH 500 lbs/acre (11.5 lbs/1,000 sf) 10-10-10 FERTILIZER. MOW AS NEEDED WHEN SERICEA IS OMITTED FROM THE MIXTURE. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

PERMANENT SEEDING RECOMMENDATIONS FOR LATE SPRING AND EARLY SUMMER

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
PENSACOLA BAHIAGRASS	50	1.15
SERICEA LESPEDEZA	30	0.69
COMMON BERMUDA	10	0.23
GERMAN MILLET	10	0.23

SEEDING NOTES:
 1. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA.
 2. USE COMMON BERMUDAGRASS ONLY ON ISOLATED SITES WHERE IT CANNOT BECOME A PEST. BERMUDAGRASS MAY BE REPLACED WITH 5 lbs/acre CENTIPEDEGRASS.

SEEDING DATES:
 APRIL 1-JULY 15

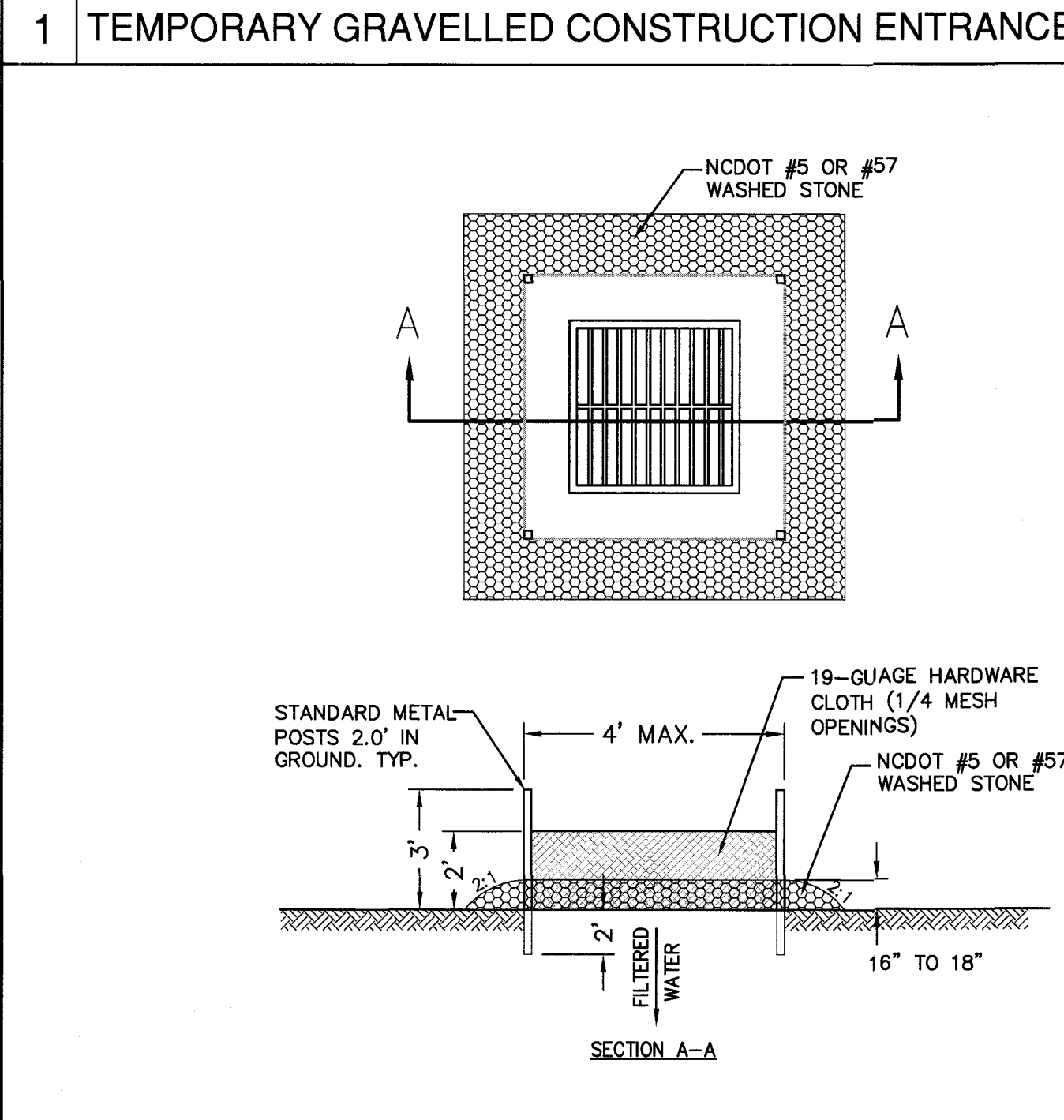
SOIL AMENDMENTS:
 APPLY LIME AND FERTILIZE ACCORDING TO SOIL TESTS, OR APPLY 3,000 lbs/acre (68.9 lbs/1,000 sf) GROUND AGRICULTURAL LIMESTONE AND 500 lbs/acre (11.5 lbs/1,000 sf) 10-10-10 FERTILIZER.

MULCH:
 APPLY 4,000 lb/acre (91.8 lbs/1,000 sf) GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
 REFERTILIZE THE FOLLOWING APRIL WITH 50 lbs/acre (11.5 lbs/1,000 sf) NITROGEN. REPEAT AS GROWTH REQUIRES. MAY BE MOWED ONLY ONCE A YEAR. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND MOW AS OFTEN AS NEEDED.

EROSION CONTROL NOTES AND MAINTENANCE PLAN:

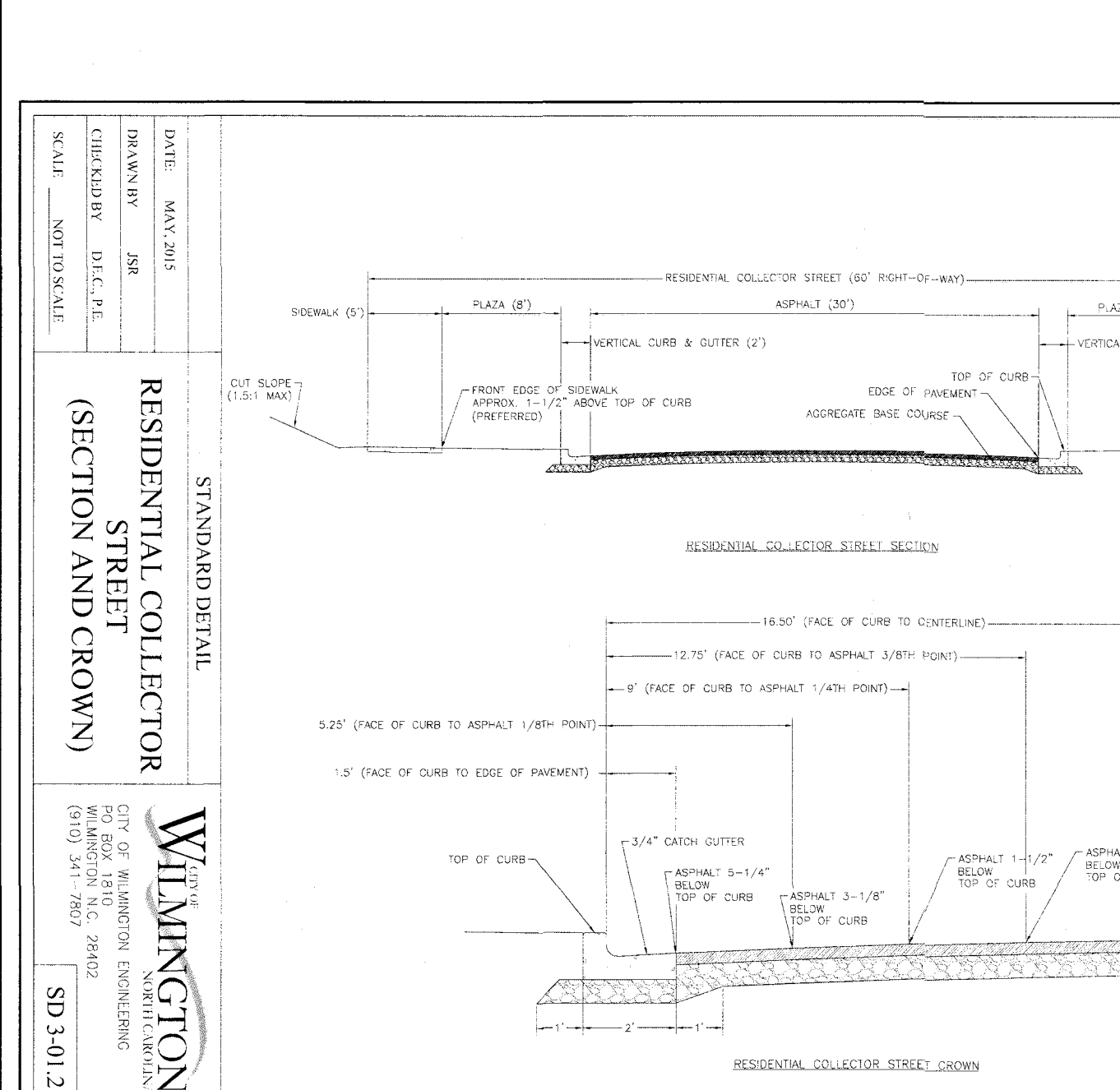
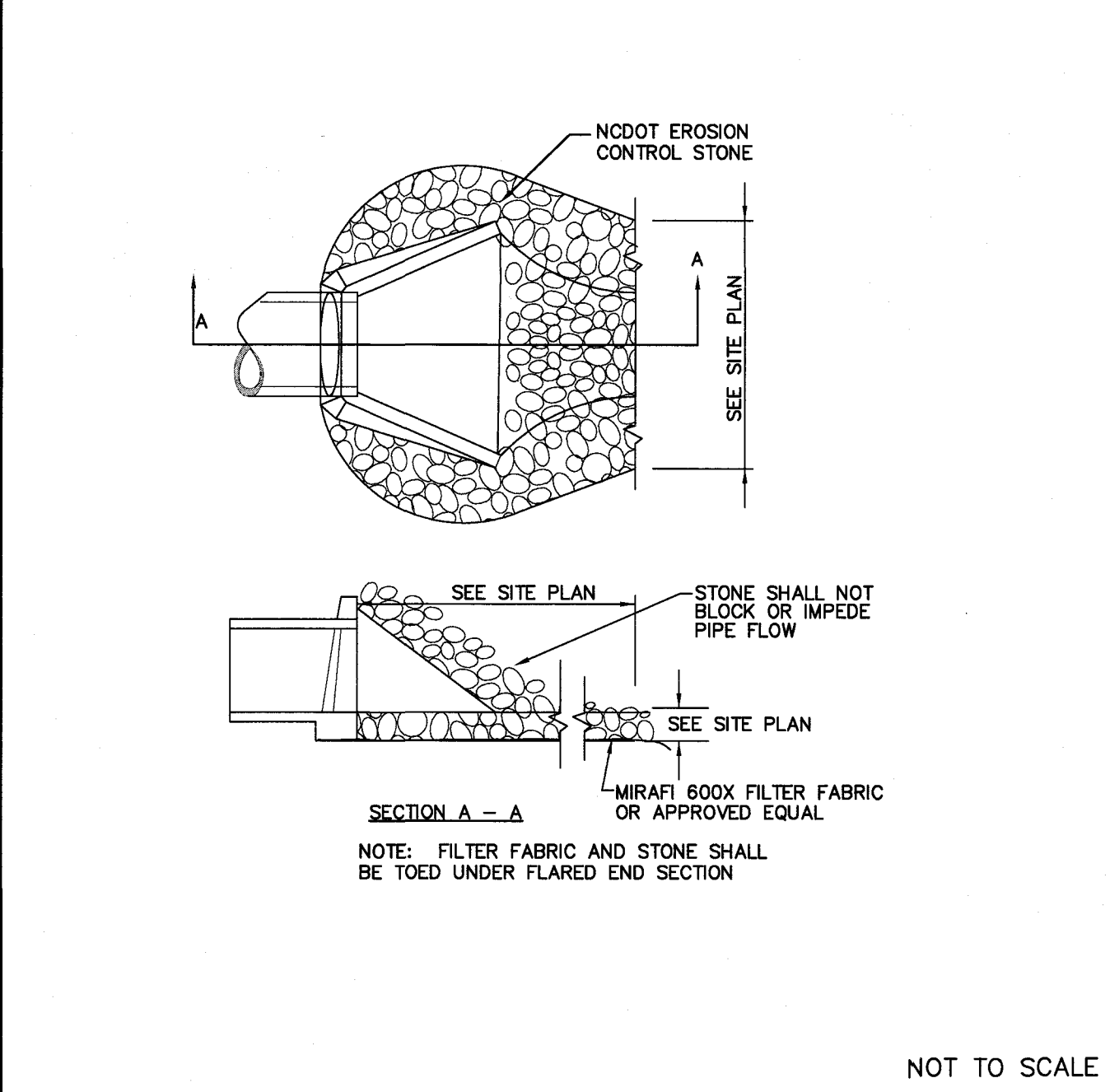
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF-INCH RAINFALL.
- ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
- SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPEL DEEPENED. THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND WATTLES, BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
- DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING, STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
- SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED AND KEPT CLEAN WEEKLY.
- SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
- LAND QUALITY REQUIREMENTS:**
 ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED, ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.
WATER QUALITY REQUIREMENTS:
 ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, ALL SLOPES STEEPER THAN 3:1 HORIZONTAL TO 1:1 VERTICAL (3:1) AND ALL HIGH QUALITY WATER (HQW) ZONES SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES AND INJECT SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.
- BASIN OUTLET STRUCTURES AND SKIMMERS SHALL WITHDRAW WATER FROM THE SURFACE.
- CONCRETE WASHOUTS SHOULD BE INSPECTED DAILY AND AFTER HEAVY RAINS. DAMAGES SHOULD BE REPAIRED PROMPTLY. IF FILLED TO OVER 75% CAPACITY WITH RAIN WATER IT SHOULD BE VACUUMED OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. BEFORE HEAVY RAINS THE CONTAINERS LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER COVERED TO AVOID AN OVER FLOW DURING RAIN. WHEN SOLIDS HAVE HARDENED THEY SHOULD BE REMOVED AND RECYCLED.



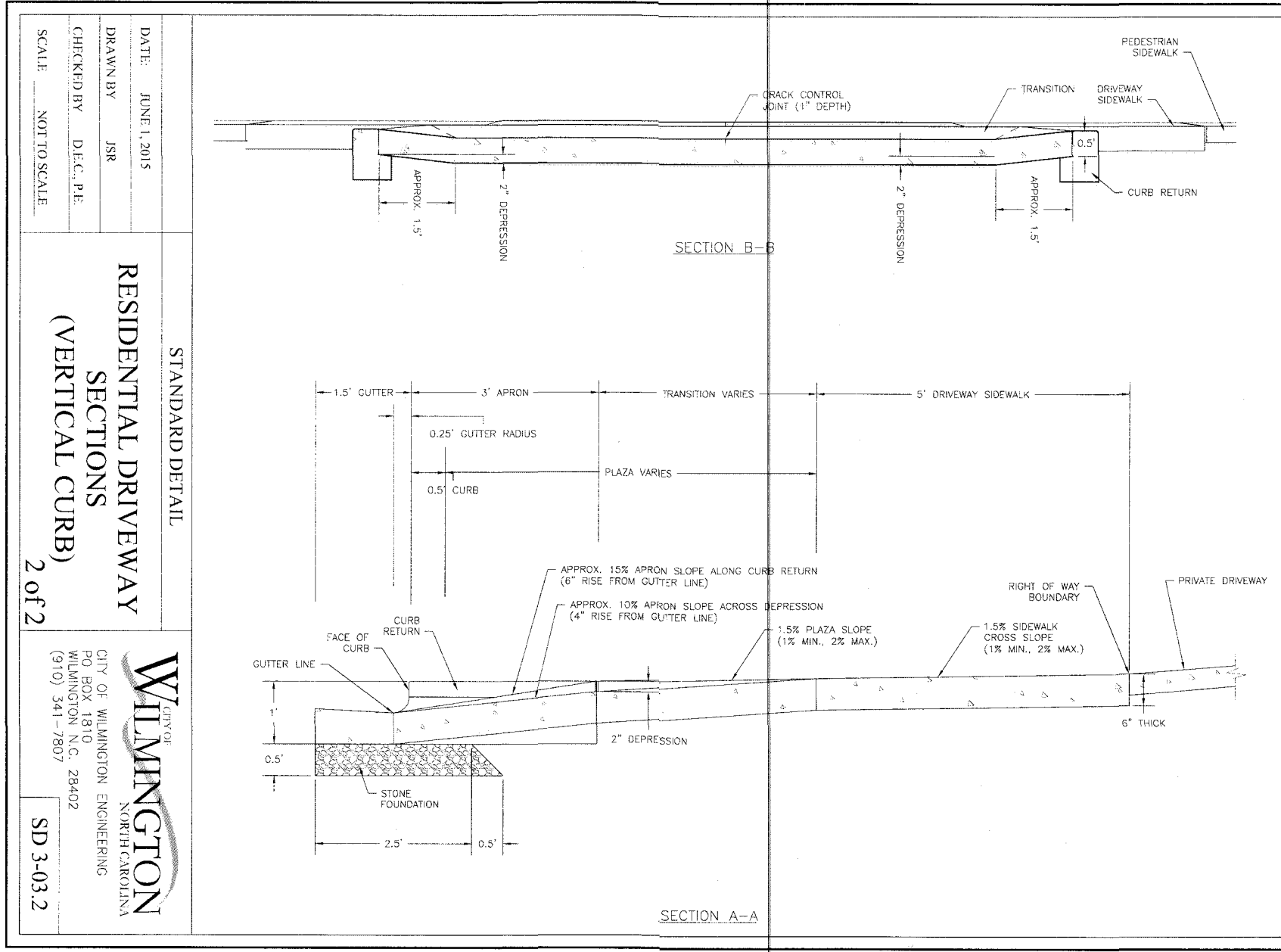
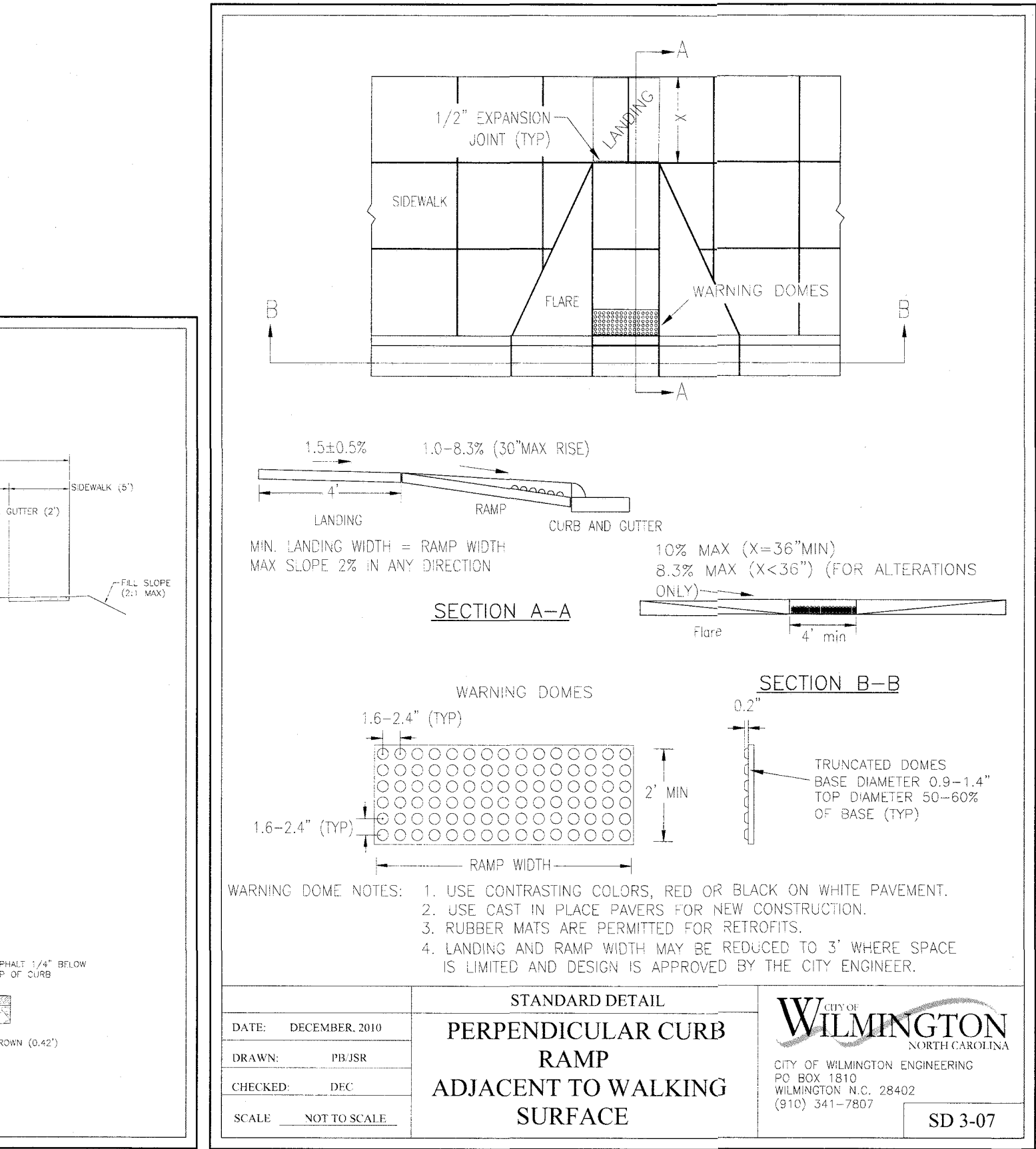
CONSTRUCTION SEQUENCE:
 1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
 2. DRIVE 5" STEEL POST 2" INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4' APART.
 3. SURROUND THE POST WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POST AT THE TOP, MIDDLE AND BOTTOM. PLACING A 2' FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
 4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16" TO 18" AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
 5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
 6. COMPACT THE AREA PROPERLY AND STABILIZE IT WITH GROUND COVER.

MAINTENANCE:
 INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REMOVE SEDIMENT WHEN ACCUMULATION REACHES HALF THE DEPTH OF ROCK. REPLACE STONE WHEN IT NO LONGER DRAINS AS DESIGNED.

3 HARDWARE CLOTH AND GRAVEL INLET PROTECTION



4 ENERGY DISSIPATOR DETAIL



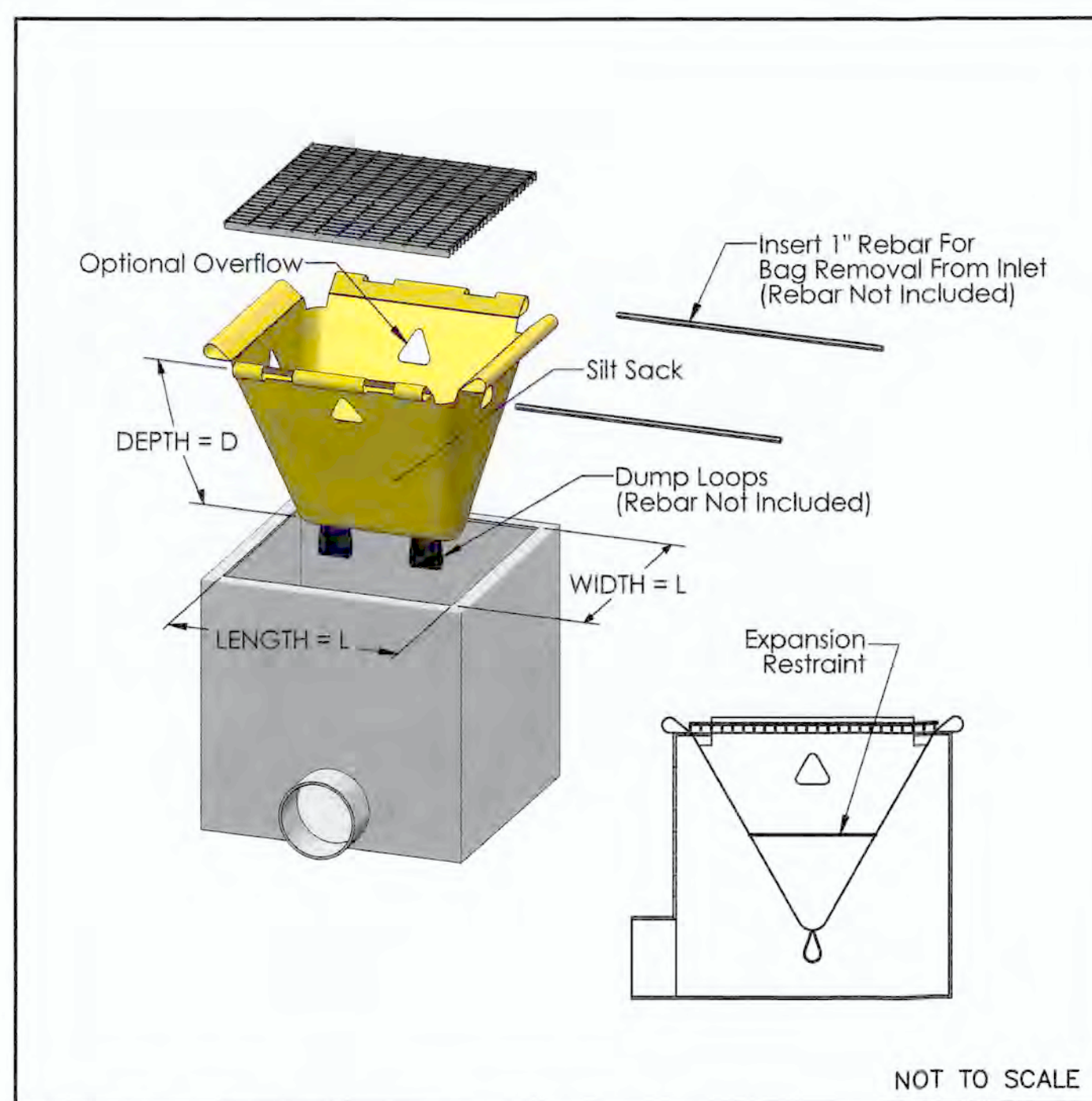
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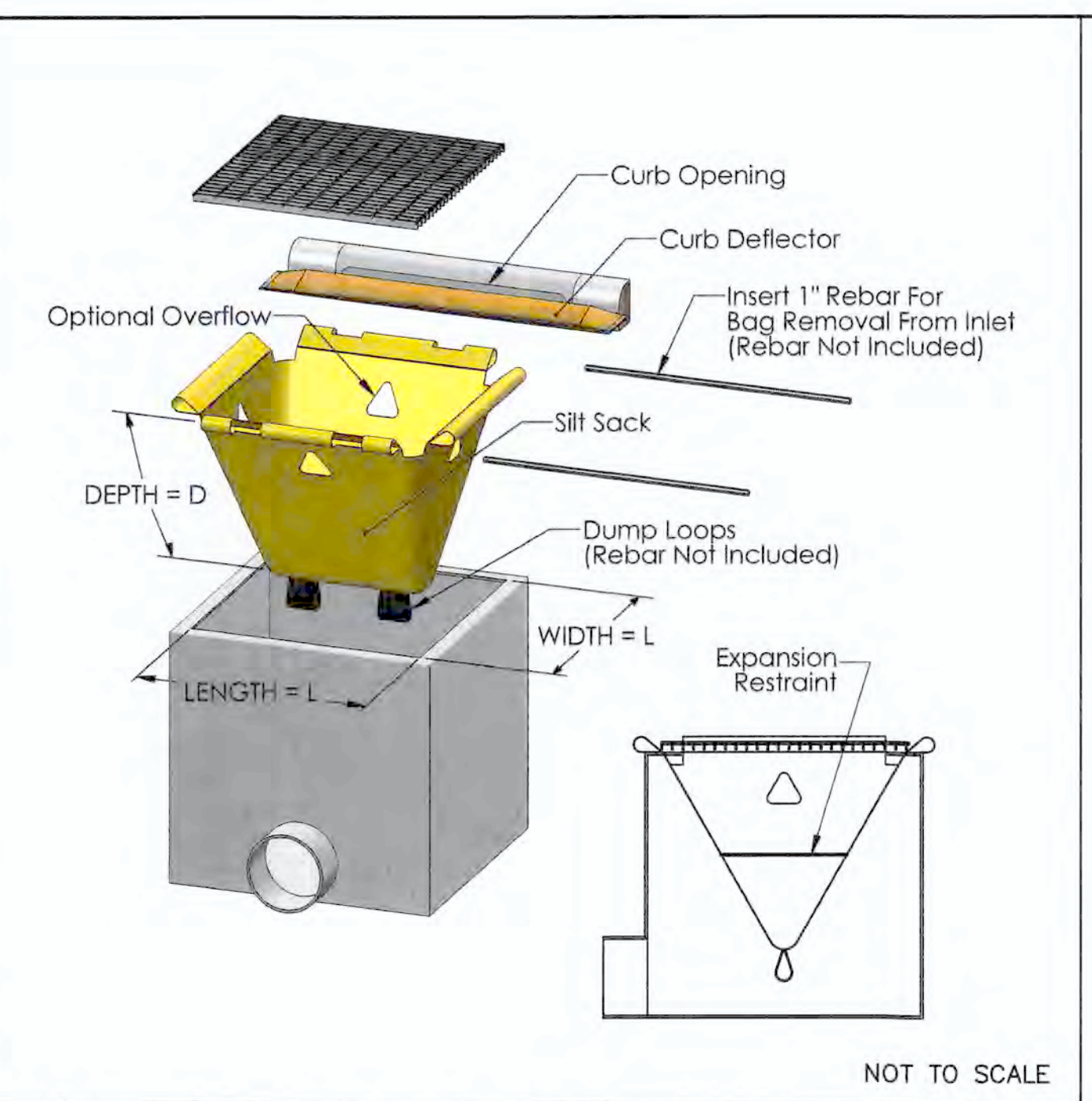
NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1900 EASTWOOD RD., SUITE #11
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 PHONE (910) 343-9653
 1429 ASH-LITTLE RIVER RD. NW
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 PHONE (910) 287-5900

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 DATE 9/15/21

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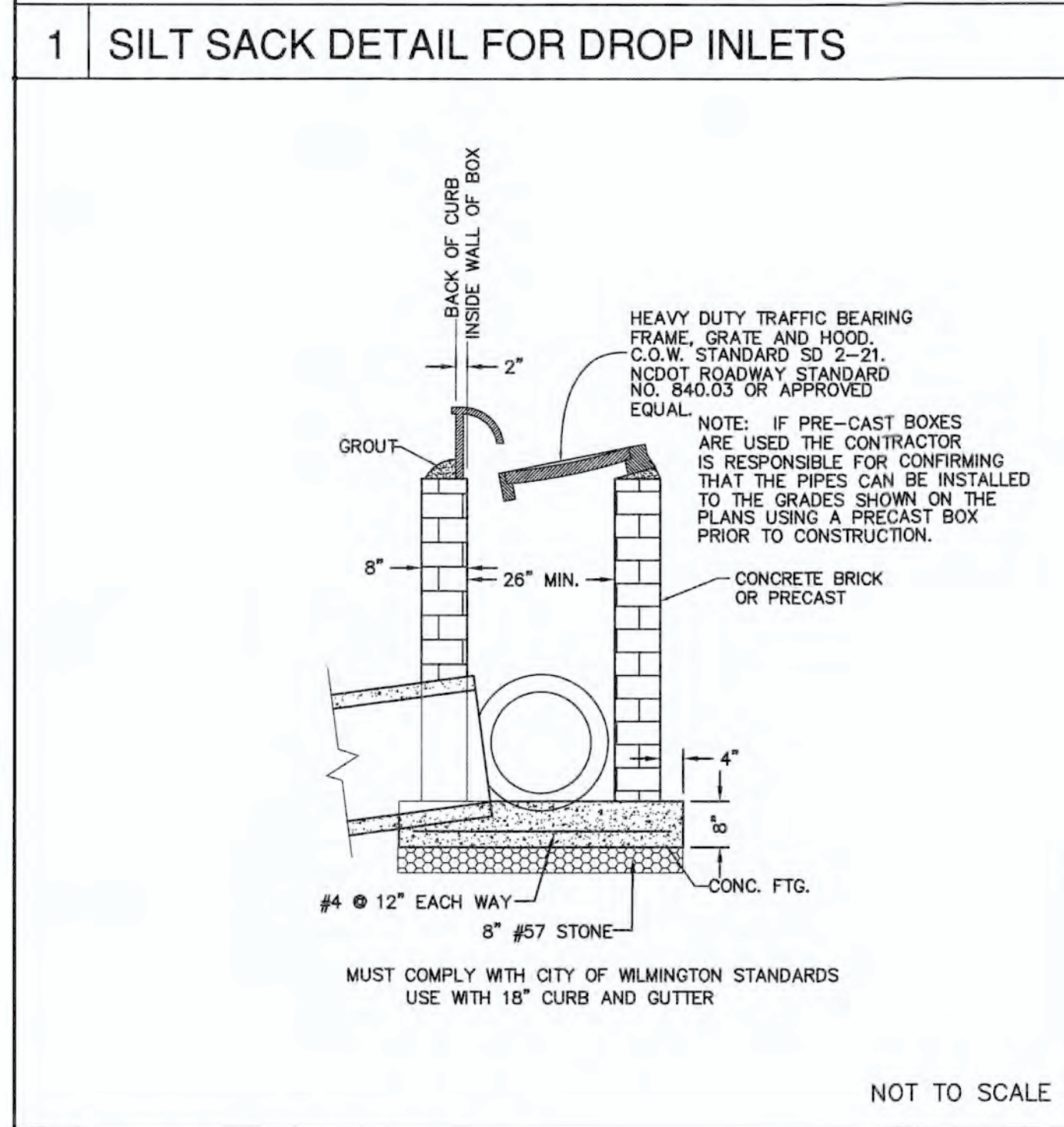
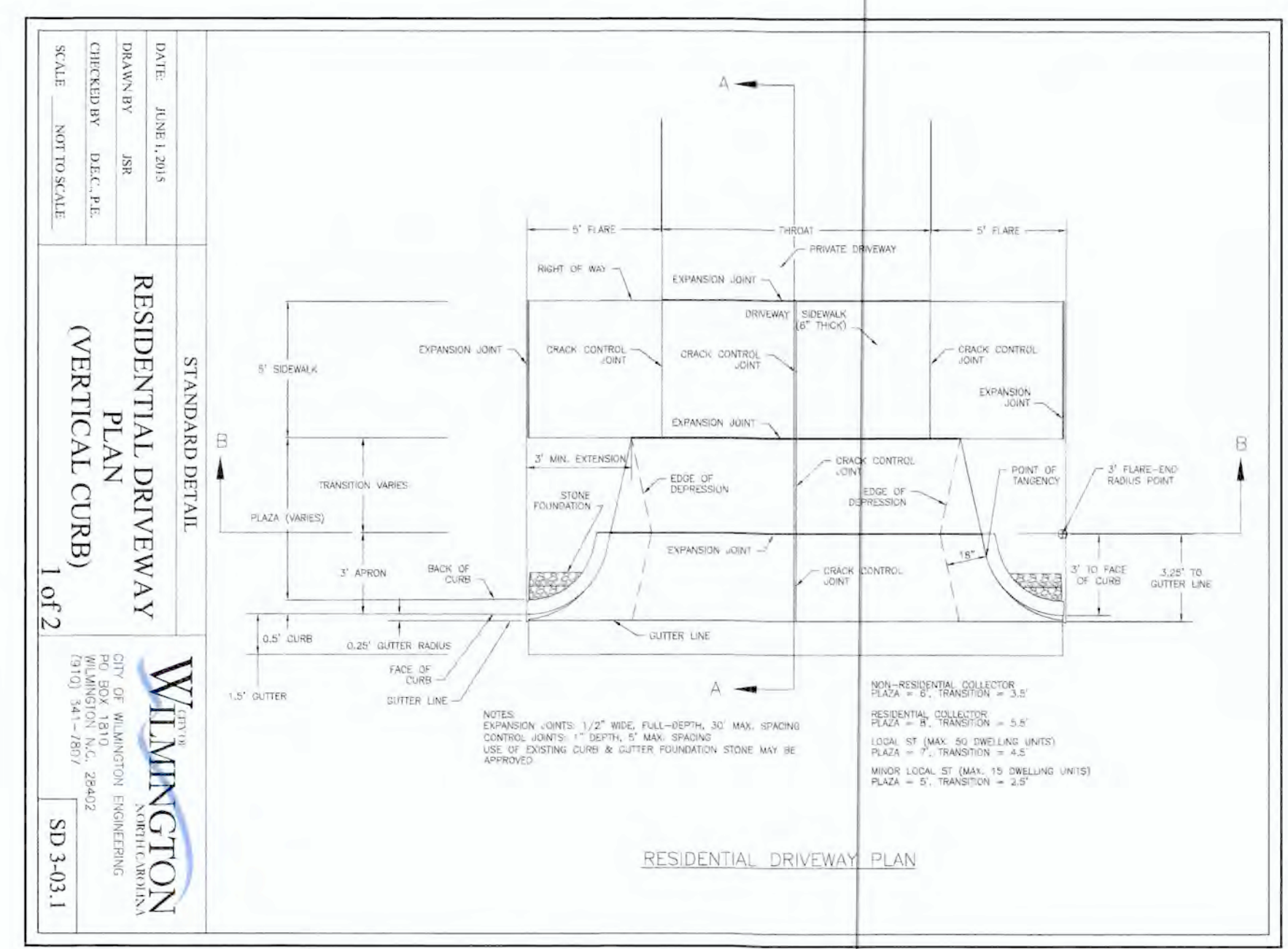


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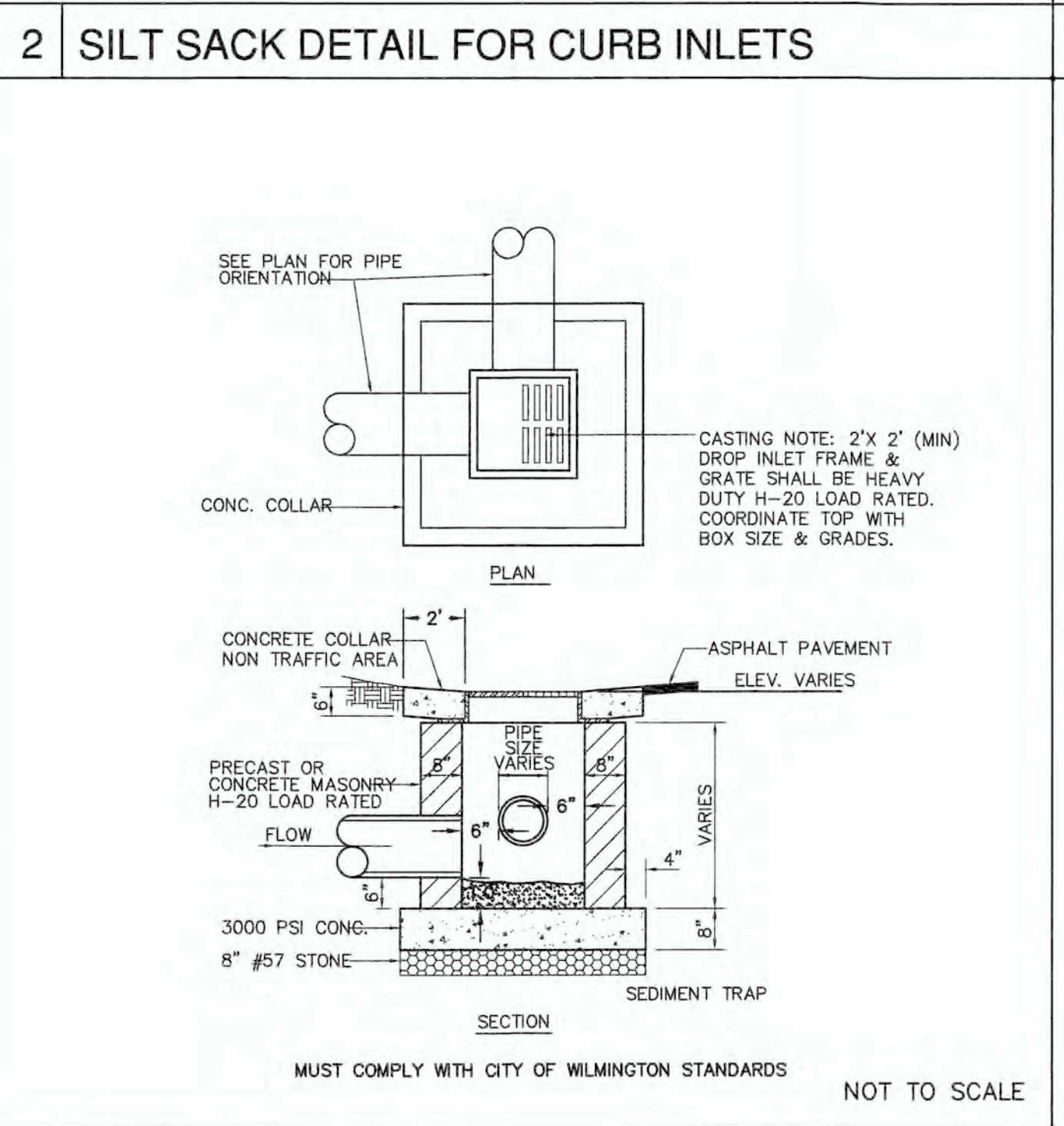
NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE OPENING SIZE OF THE EXISTING OR PROPOSED CATCH BASIN OR DROP INLET. THE SILTSACK WILL BE MANUFACTURED TO FIT THE OPENING OF THE EXISTING OR PROPOSED CATCH BASIN OR DROP INLET.
2. TO INSTALL THE SILTSACK IN THE CATCH BASIN, REMOVE THE GRATE AND PLACE THE SACK IN THE OPENING. HOLD OUT APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME. THIS IS THE AREA OF THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
3. THE SILTSACK IS FULL AND SHOULD BE EMPTIED WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE.
4. TO REMOVE THE SILTSACK, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING OF THE SILTSACK.
5. TO EMPTY THE SILTSACK, PLACE IT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL TURN THE SILTSACK INSIDE OUT AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN THE SILTSACK TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASIN.

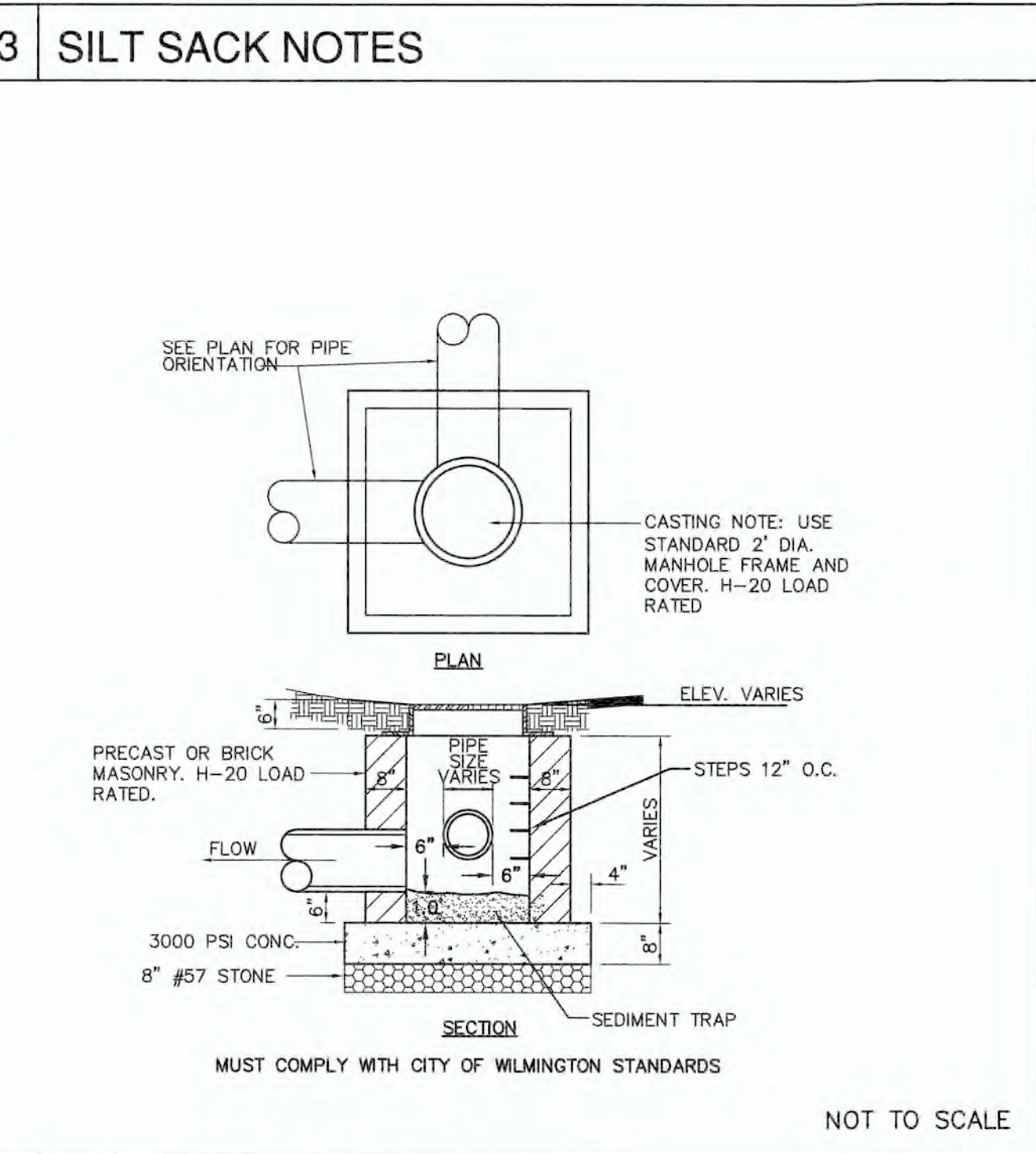
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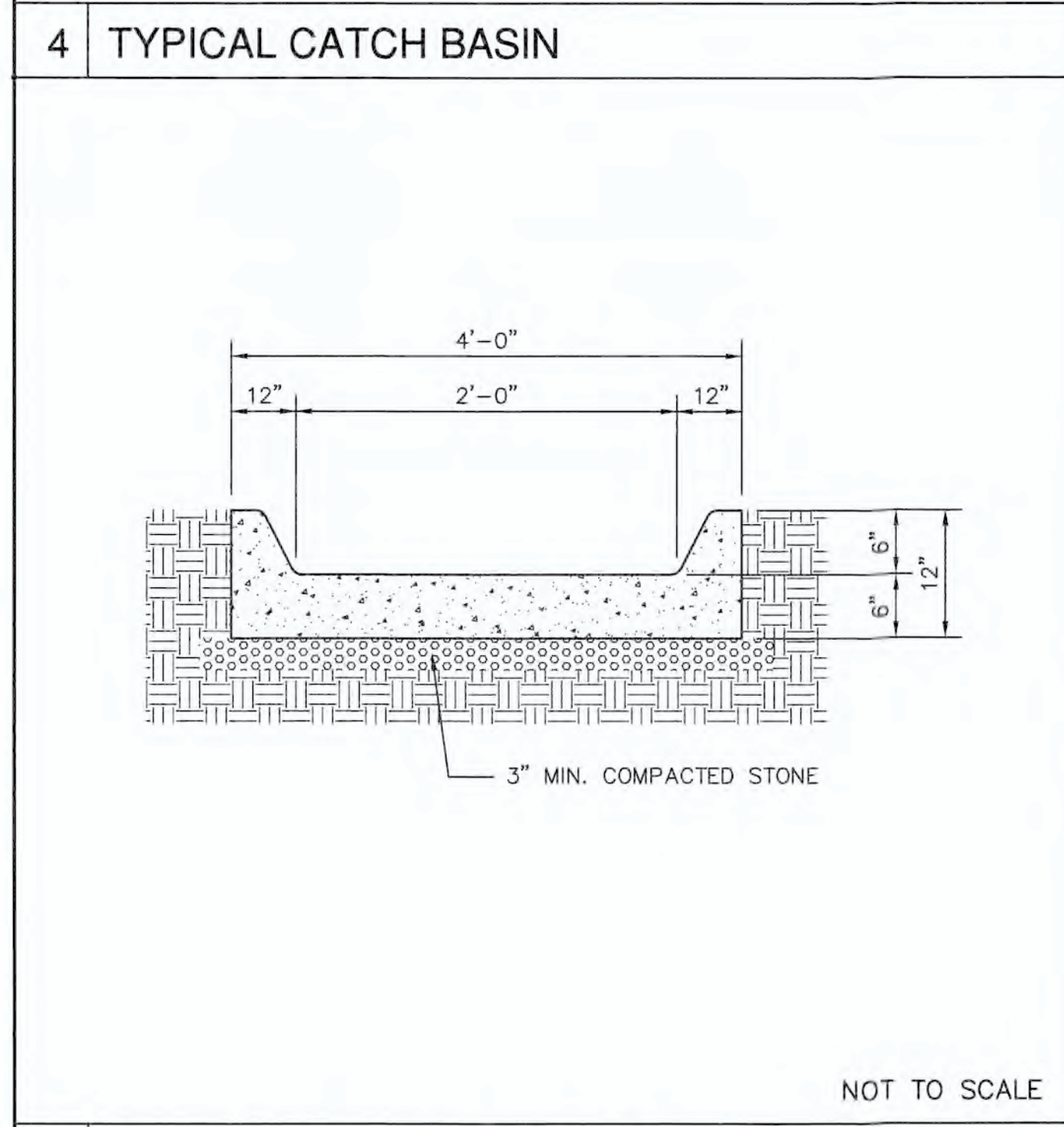
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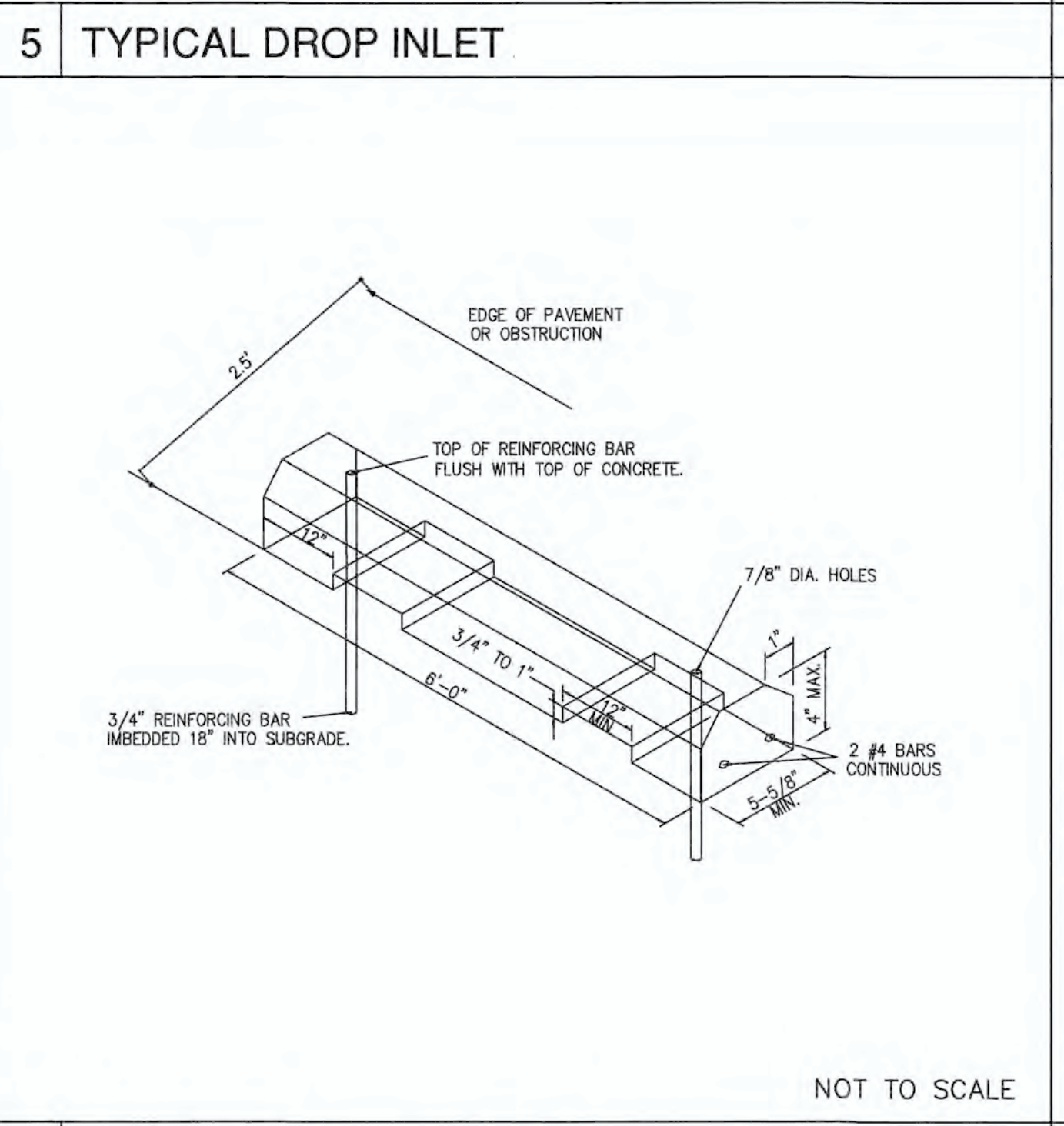
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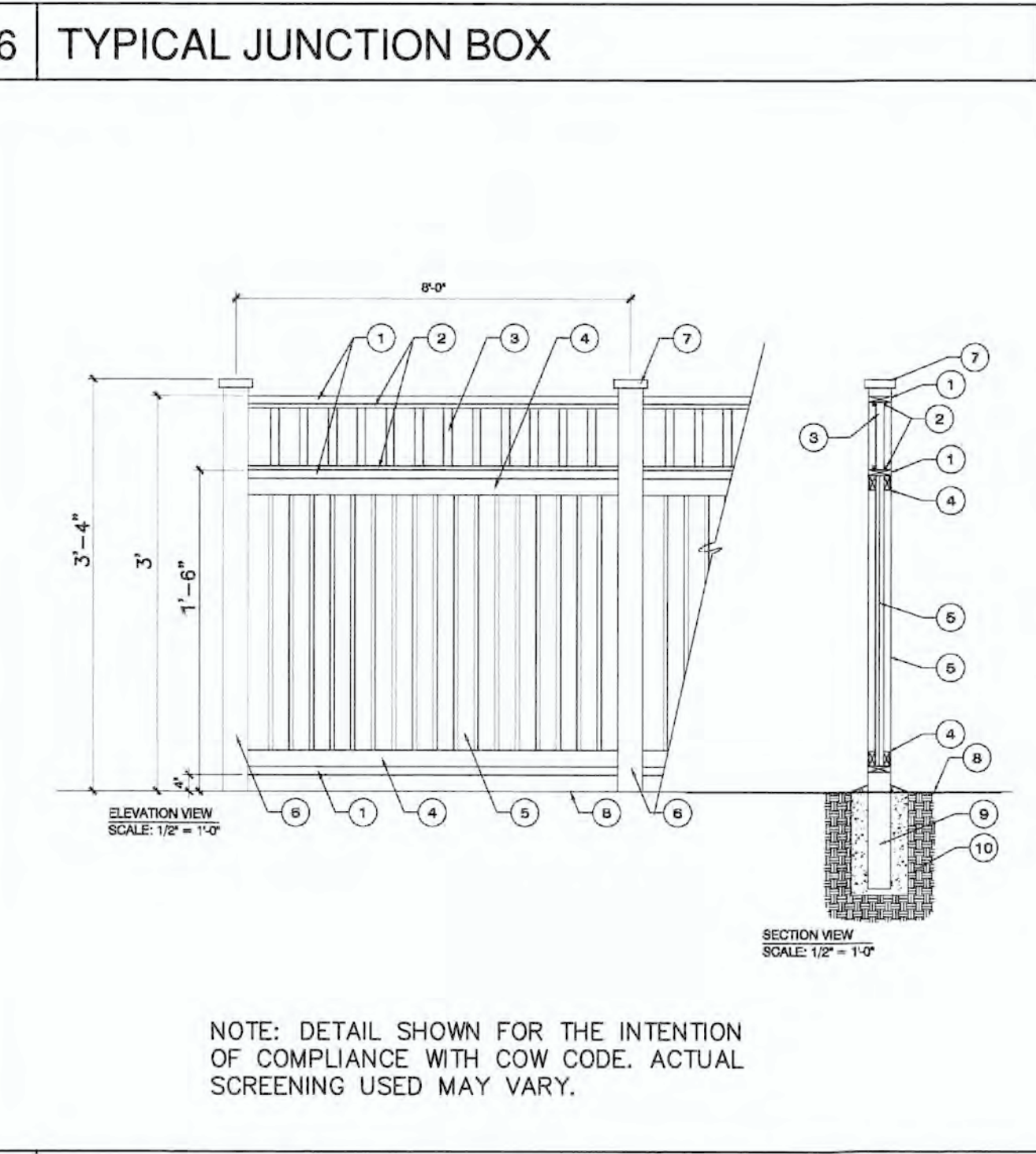
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NOTE: DETAIL SHOWN FOR THE INTENTION OF COMPLIANCE WITH COW CODE. ACTUAL SCREENING USED MAY VARY.

NOT TO SCALE

SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS.
2. CONTRACTOR SHALL COORDINATE WORK WITHIN NCDOT AND LOCAL RIGHT OF WAY WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS.
3. CLEARING AND GRUBBING: REMOVE ALL TREES AS REQUIRED UNLESS OTHERWISE NOTED TO REMAIN, STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS OF CONSTRUCTION.
4. STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL.
5. MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN SELECT-FILL COMPACTED AS SPECIFIED.
6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.
7. BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS.
8. FILL AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROOFROLLED. THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ANY AREA WHICH PUMPS OR RUTS EXCESSIVELY SHOULD BE UNDERCUT AND REPLACED WITH A CLEAN, SILTY OR CLAYEY SAND HAVING A UNIFIED SOIL CLASSIFICATION OF SP, SM, OR SC. FILL MATERIAL 5" OUTSIDE OF BUILDING AREAS SHALL THEN BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED IN 6 INCH LAYERS TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IN AREAS WHERE NO STRUCTURAL FILL IS TO BE PLACED THE UPPER 12 INCHES OF IN-PLACE SUBGRADE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IF THE MATERIAL IS TOO DRY TO COMPACT TO THE REQUIRED DENSITY EACH LAYER SHALL BE WETTED IN ACCORDANCE WITH COMPACTION REQUIREMENTS. IF THE MATERIAL IS TOO WET TO SECURE PROPER COMPACTION, IT SHALL BE HARROWED REPEATEDLY OR OTHERWISE AERATED WITH SUITABLE EQUIPMENT UNTIL OPTIMUM MOISTURE CONTENT IS OBTAINED. FILL SHALL BE PLACED IN SUCH A MANNER THAT THE SURFACE WILL DRAIN READILY AT ALL TIMES. SEE STRUCTURAL NOTES AND SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
9. LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION.
11. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY ARNOLD CARSON AND PROVIDED BY OWNER, TREE SURVEY BY MICHAEL UNDERWOOD AND ASSOC. PA.
12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES.
14. ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS.
15. WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PLUMBING CODES. METER AND TAPS SHALL MEET ALL LOCAL REQUIREMENTS.
16. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
17. SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
18. CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY. PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION.
19. REINF. CONC. PIPE SHALL BE CLASS III W/RUBBER GASKETED JOINT OR "RAM NECK". INSTALL PER MANUFACTURER'S REQUIREMENTS.
20. USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYD, FS TT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON-BLEEDING.
21. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WASTE, WATER AND ROOF DRAIN LINES.

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones
(d) Slopes 3:1 to 4:1	14	-10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roller erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

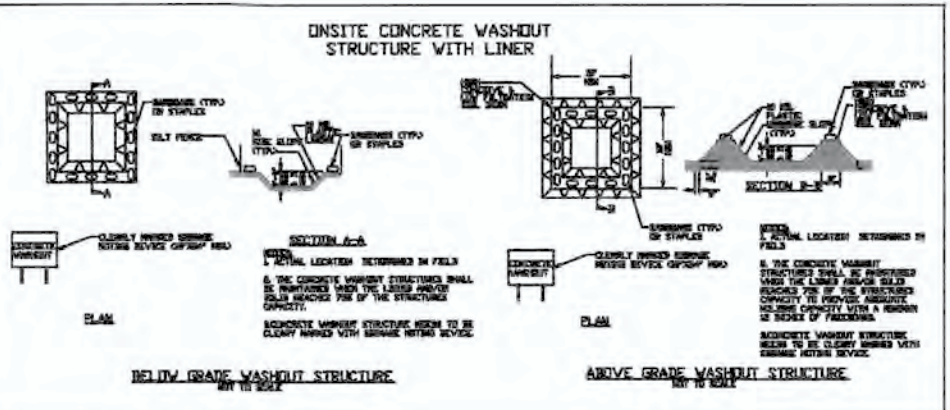
- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any stored equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

- LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**
- Never bury or burn waste. Place litter and debris in approved waste containers.
 - Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
 - Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
 - Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
 - Anchor all lightweight items in waste containers during times of high winds.
 - Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
 - Dispose waste off-site at an approved disposal facility.
 - On business days, clean up and dispose of waste in designated waste containers.

- PAINT AND OTHER LIQUID WASTE**
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
 - Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Contain liquid wastes in a controlled area.
 - Containment must be labeled, sized and placed appropriately for the needs of site.
 - Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

- PORTABLE TOILETS**
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
 - Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
 - Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

- EARTHEN STOCKPILE MANAGEMENT**
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
 - Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
 - Provide stable stone access point when feasible.
 - Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

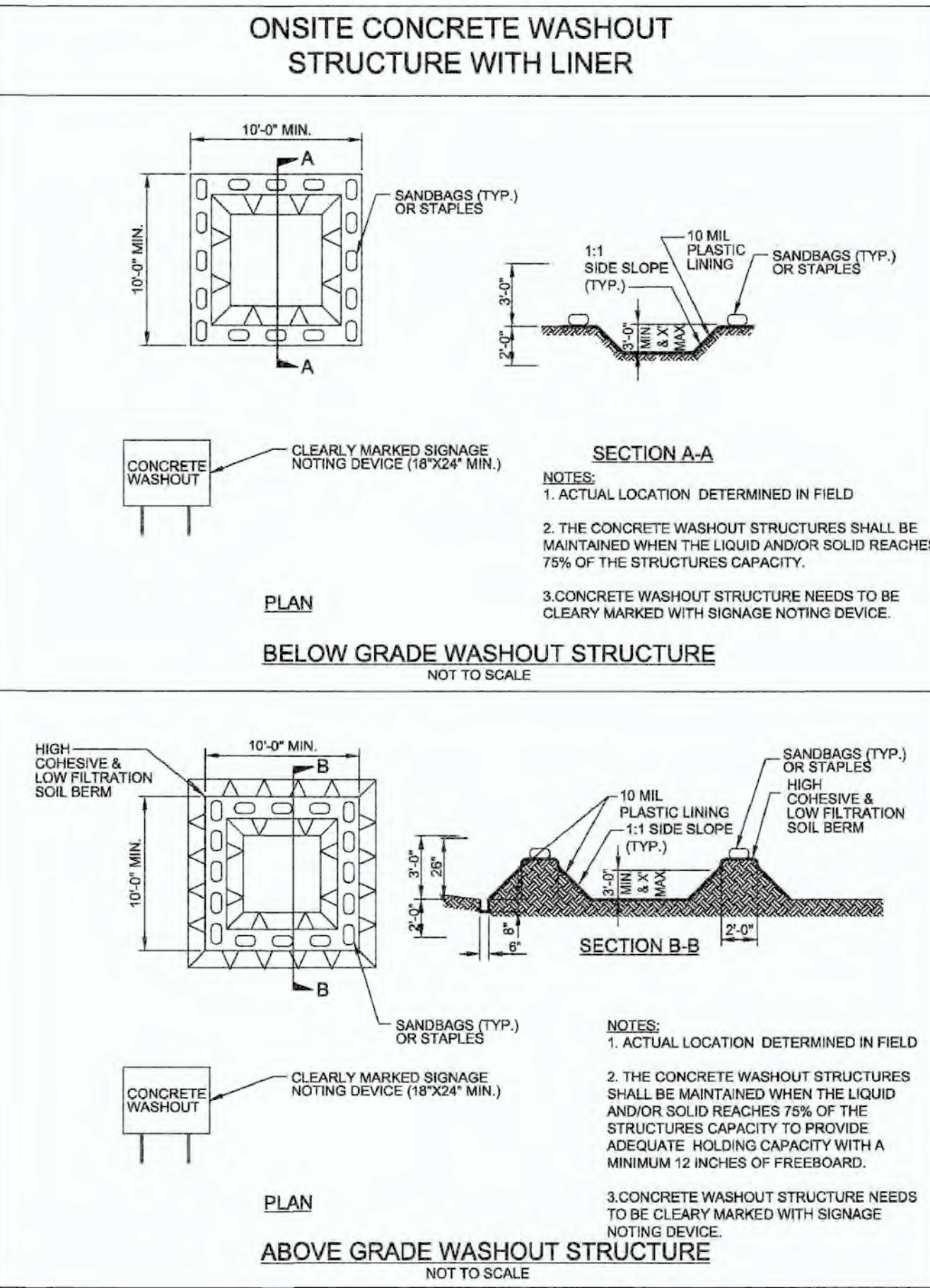


- CONCRETE WASHOUTS**
- Do not discharge concrete or cement slurry from the site.
 - Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
 - Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
 - Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
 - Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
 - Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
 - Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
 - Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
 - Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
 - At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

- HERBICIDES, PESTICIDES AND RODENTICIDES**
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
 - Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
 - Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
 - Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE**
- Create designated hazardous waste collection areas on-site.
 - Place hazardous waste containers under cover or in secondary containment.
 - Do not store hazardous chemicals, drums or bagged materials directly on the ground.

WITH LINER, NO GRAVEL APPROACH



NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts; If no daily rain gauge observations are made during weekend or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurements for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-measuring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measures, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the perimeter of the site, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken, and 7. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the stream or wetland, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken, and 7. An explanation as to the actions taken to control future releases.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover), 2. Documentation that the required ground stabilization measures have been provided within the required timeframe as an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&S Plan Documentation

The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&S Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S Plan.	Initial and date each E&S Measure on a copy of the approved E&S Plan or complete, date and sign an inspection report that lists each E&S Measure shown on the approved E&S Plan. This documentation is required upon the initial installation of the E&S Measures or if the E&S Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&S Plan.	Initial and date a copy of the approved E&S Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&S Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S Measures.	Initial and date a copy of the approved E&S Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&S Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if provided to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and other inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

- 1. Occurrences that must be reported**
- Permittees shall report the following occurrences:
- Visible sediment deposition in a stream or wetland.
 - Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
 - Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 310.3 and 40 CFR 317.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
 - Anticipated bypasses and unanticipated bypasses.
 - Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and releases of hazardous substances per Item 1(B)-(C) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(c) Anticipated bypasses (40 CFR 122.41(m)(3))	<ul style="list-style-type: none"> A report at least ten days before the date of the bypass, if possible and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(d) Unanticipated bypasses (40 CFR 122.41(m)(3))	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(i)(6)]. Division staff may waive the requirement for a written report on a case-by-case basis.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

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WINDEMERE PRESBYTERIAN CHURCH
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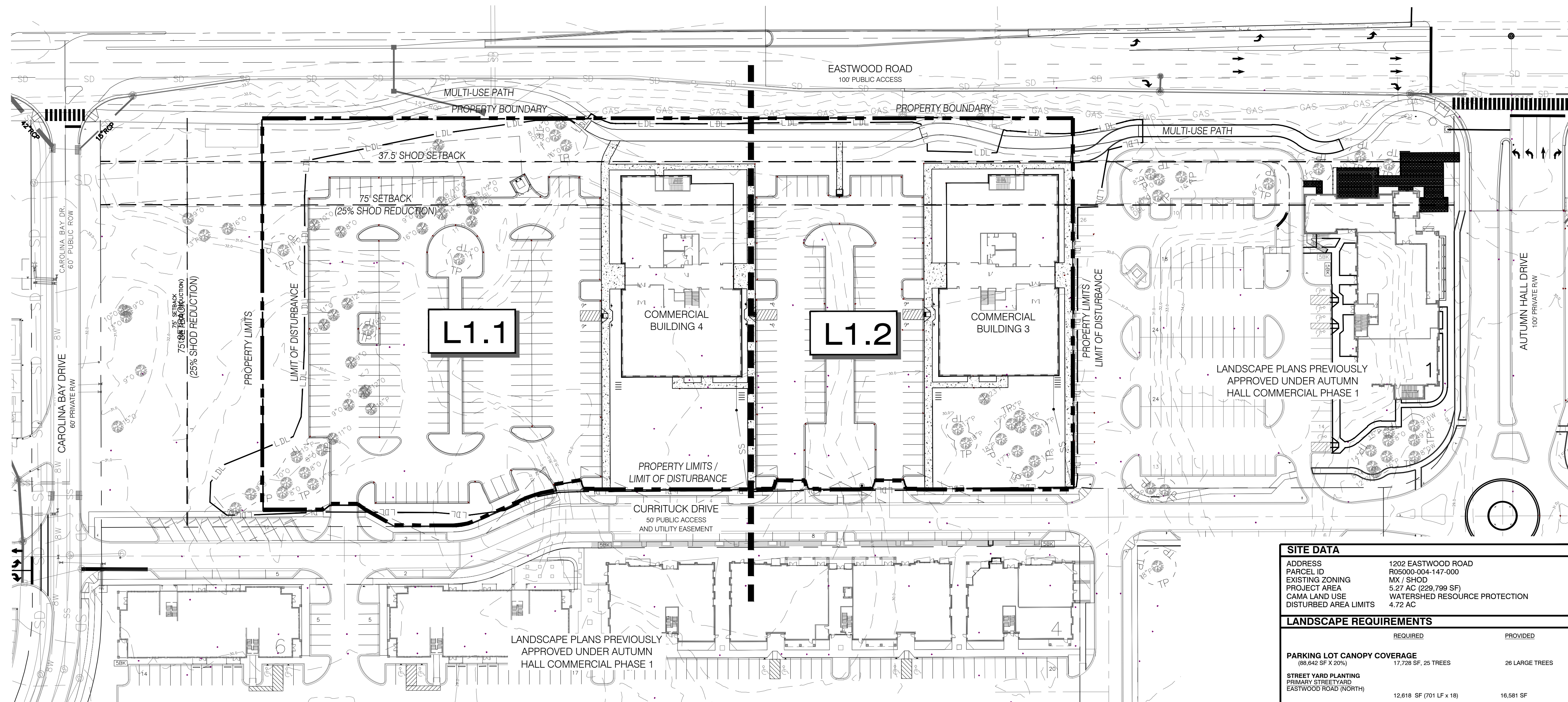
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REYES SMITHLEY MICHELLE
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ZONING: R-15

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SCHUT MICHAEL G
2016-09-06
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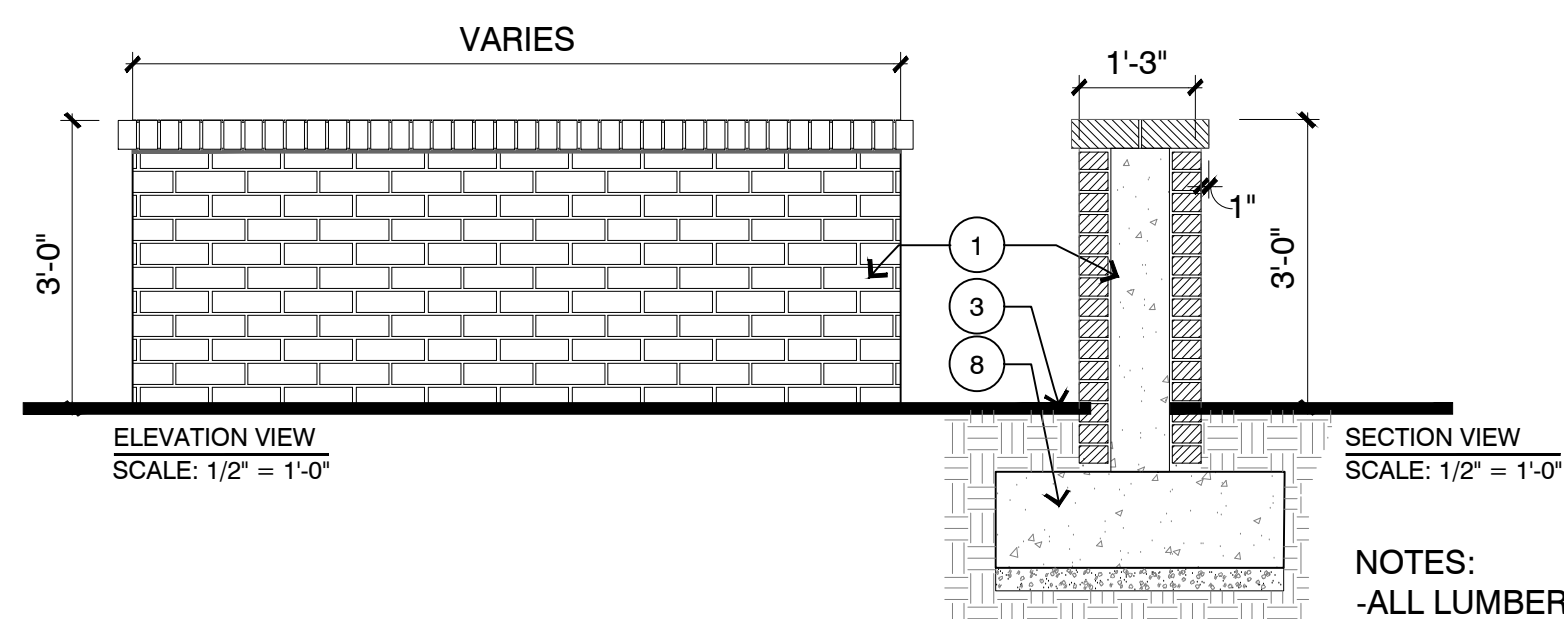
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2010-06-11
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LEGEND

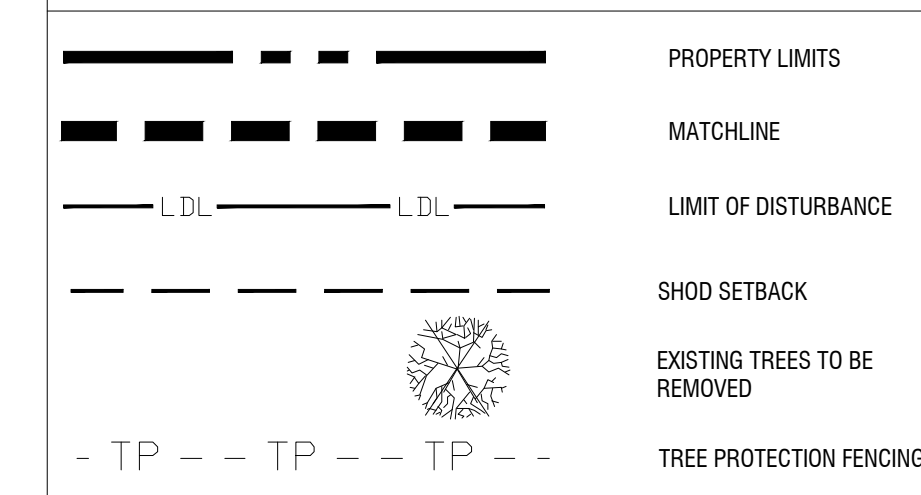
- | | |
|---|---|
| 1. 8" CMU BLOCK WALL W BRICK VENEER & STEEL REINFORCEMENT
BRICK VENEER - TO MATCH ARCHITECTURE | 5. STAINLESS STEEL HINGES |
| 2. 2x6 RAIL | 6. CAST IRON HANDLE |
| 3. FINISH GRADE | 7. 2x3 POWDER COATED ALUMINUM FRAME
COLOR: BLACK |
| 4. STAINLESS STEEL DROP BAR | 8. REINFORCED CONCRETE FOOTER |



NOTES:
- ALL LUMBER SHALL BE TREATED "C" OR BETTER
- ALL LUMBER SHALL BE STAINED
STAIN: SIKKENS CETOL - TO BE SELECTED

- STRUCTURAL ENGINEER TO PROVIDE SUPPORTIVE DETAILS SHOWING FOOTING AND REINFORCEMENT

SYMBOL LEGEND



NOTE:
- ALL PROPOSED VEGETATION WITHIN SIGHT DISTANCES TRIANGLES SHALL NOT INTERFERE WITH CLEAR SIGHT LINES FROM 30' - 10'.

- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING

SITE DATA

ADDRESS	1202 EASTWOOD ROAD
PARCEL ID	R05000-004-147-000
EXISTING ZONING	MX / SHOD
PROJECT AREA	5.27 AC (229,799 SF)
CAMA LAND USE	WATERSHED RESOURCE PROTECTION
DISTURBED AREA LIMITS	4.72 AC

LANDSCAPE REQUIREMENTS

	REQUIRED	PROVIDED
PARKING LOT CANOPY COVERAGE (88,642 SF X 20%)	17,728 SF, 25 TREES	26 LARGE TREES
STREET YARD PLANTING PRIMARY STREET YARD EASTWOOD ROAD (NORTH)	12,618 SF (701 LF X 18')	16,581 SF
TREES REQUIRED	21 (1/600 SF) + 18 (1/40 LF)	36 PROPOSED CANOPY TREES 9 EXISTING
SHRUBS REQUIRED	127 (6/600 SF)	193 PROPOSED SHRUBS
FOUNDATION PLANTING 12% FACADE AREA (ADJ. TO PARKING/DRIVE AISLE)		
COMMERCIAL BUILDING 3 & 4		
WEST	710 SF (174 LF X 34 HT X .12)	856 SF
EAST	710 SF (174 LF X 34 HT X .12)	766 SF
NORTH	424 SF (104 LF X 34 HT X .12)	873 SF
SOUTH	424 SF (104 LF X 34 HT X .12)	483 SF

MITIGATION REQUIREMENTS

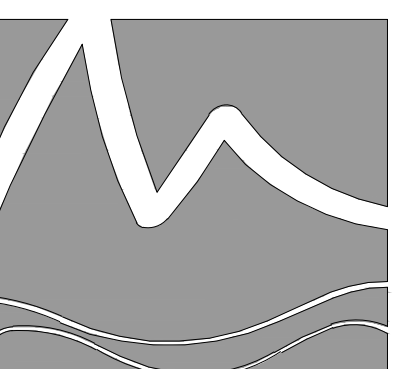
RETAINED TREES COUNTED TOWARD MINIMUM REQUIRED			
QUANTITY	SIZE	COMMON NAME	CREDITS
3	8"	OAK	6
1	10"	OAK	2
2	11"	OAK	4
1	12"	OAK	2
1	18"	OAK	4
1	13"	PINE	3
2	14"	PINE	6
3	15"	PINE	9
3	17"	PINE	9
2	18"	PINE	8
TOTAL TREE CREDITS			54 CREDITS

REMOVED REGULATED TREES			
QUANTITY	SIZE	COMMON NAME	ESSENTIAL
1	23"	PINE	100
1	8"	OAK	ESSENTIAL
1	8/10"	OAK	ESSENTIAL
1	8/12"	OAK	ESSENTIAL
1	9"	OAK	ESSENTIAL
1	10"	OAK	ESSENTIAL
1	11"	OAK	ESSENTIAL
1	12"	OAK	ESSENTIAL
1	14"	OAK	ESSENTIAL
1	16"	OAK	ESSENTIAL
23" x (1) = 23' / 3 =			8 TREES

TOTAL TREES REQUIRED FOR MITIGATION = 8 TREES
TREE CREDITS USED TO SATISFY MITIGATION = 8 CREDITS

TREE REQUIREMENTS PER DISTURBED ACRE
15 TREES PER DISTURBED ACRE MUST BE RETAINED OR PLANTED ON SITE.

REQUIRED:	4.72 ACRES DISTURBED X 15 TREES = 71 TREES REQUIRED
PROVIDED:	73 TREES PLANTED - REFER TO PLANTING LEGEND
TOTAL:	73 TREES PROVIDED



MIHALY
LAND DESIGN
PLANNING + LANDSCAPE ARCHITECTURE
330 MILITARY CUTOFF RD., Suite A3
Wilmington, NC 28405 910.392.4355

Revisions
2021-12-09: Revised per COV comments.
2021-12-20: Revised per Building shift

CLIENT
AUTUMN HALL COMMERCIAL BLDG 3&4 CAPE FEAR COMMERCIALM, LLC
1051 MILITARY CUTOFF RD., SUITE 200
WILMINGTON, NC
CONTACT: MIKE BROWN

PROJECT
AUTUMN HALL COMMERCIAL BLDG 3&4
1202 EASTWOOD ROAD
WILMINGTON, NC
LANDSCAPE PLAN

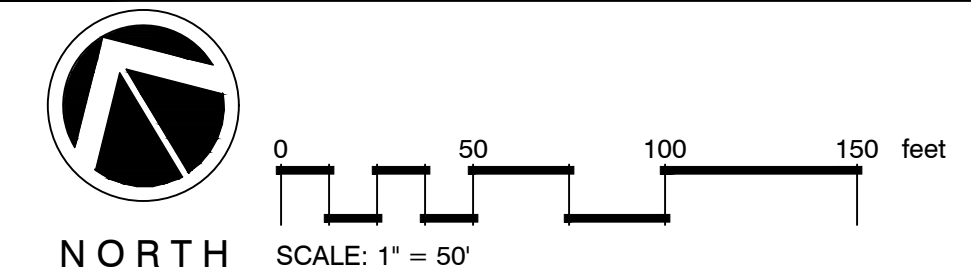
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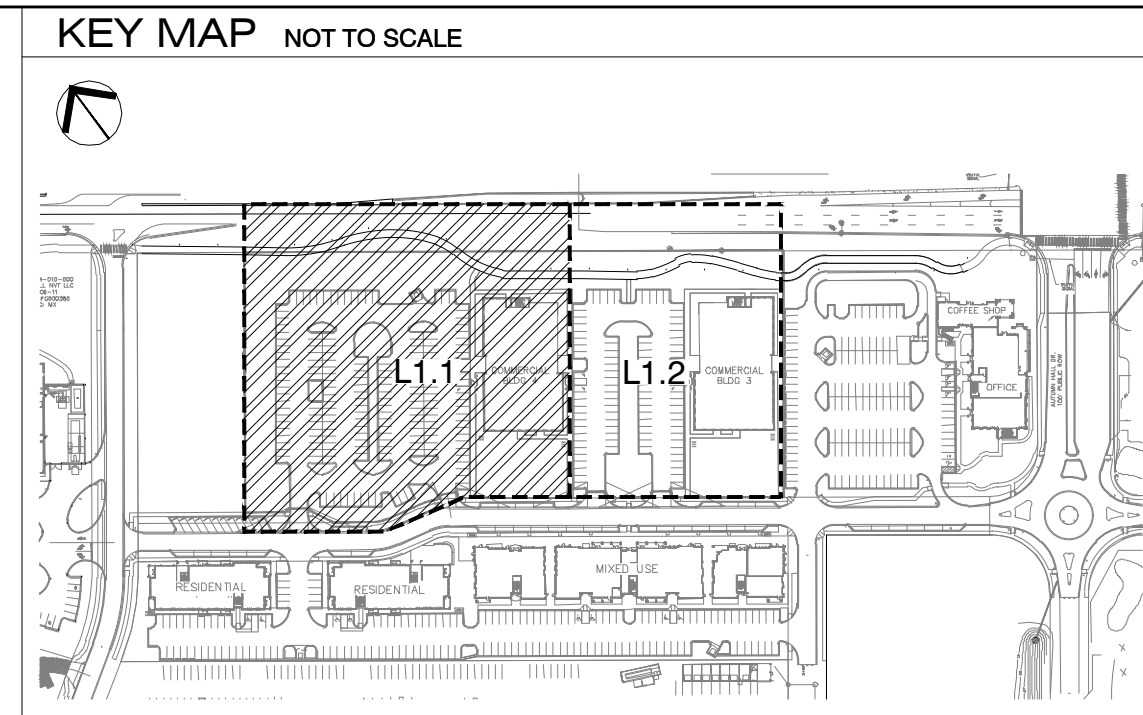
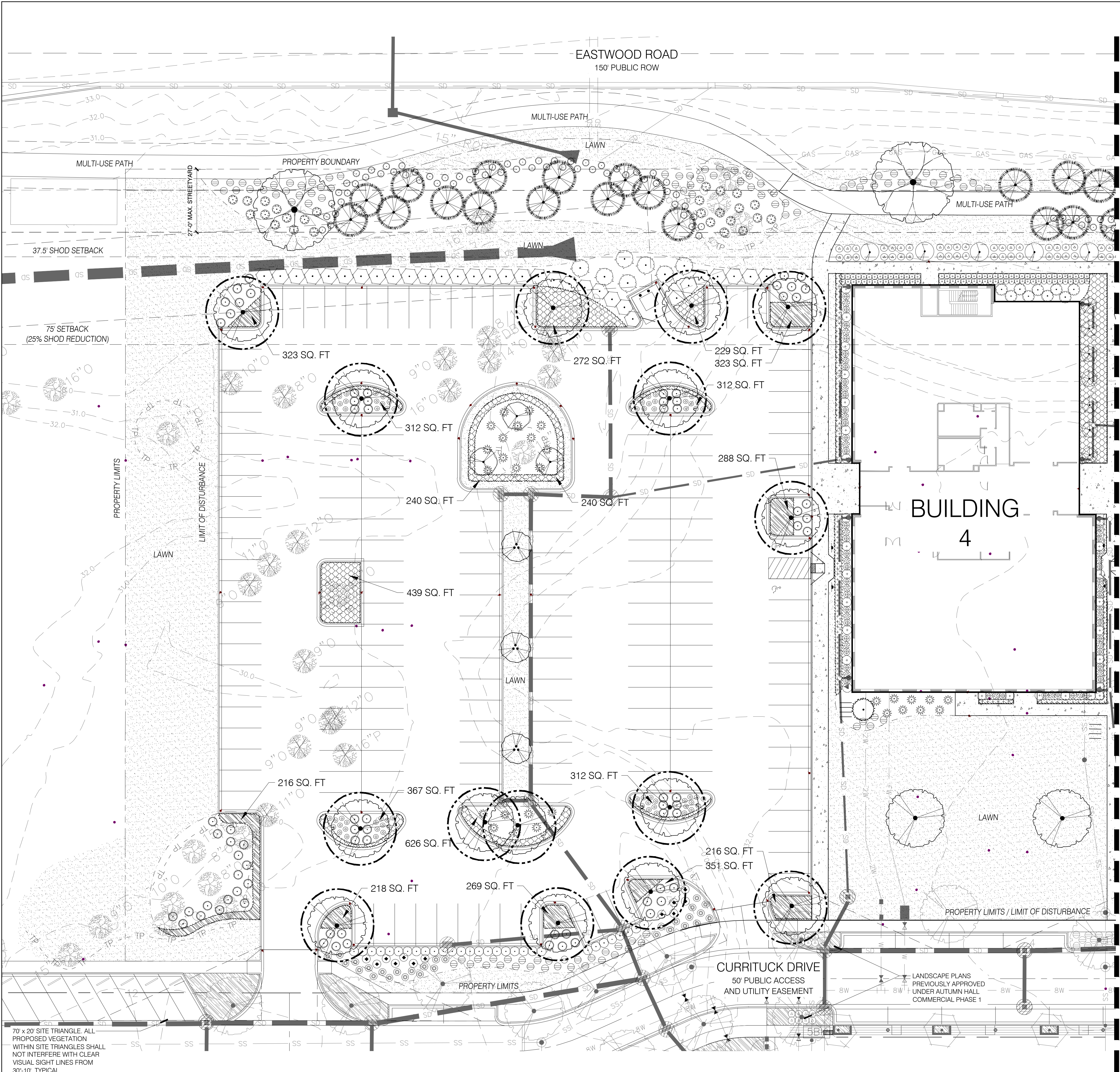
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Phase:
Job Number: 400-18
Designed by: MLD
Drawn by: MAS
Checked by: JWM

Sheet Title: PLANTING PLAN - OVERALL

Sheet Number:

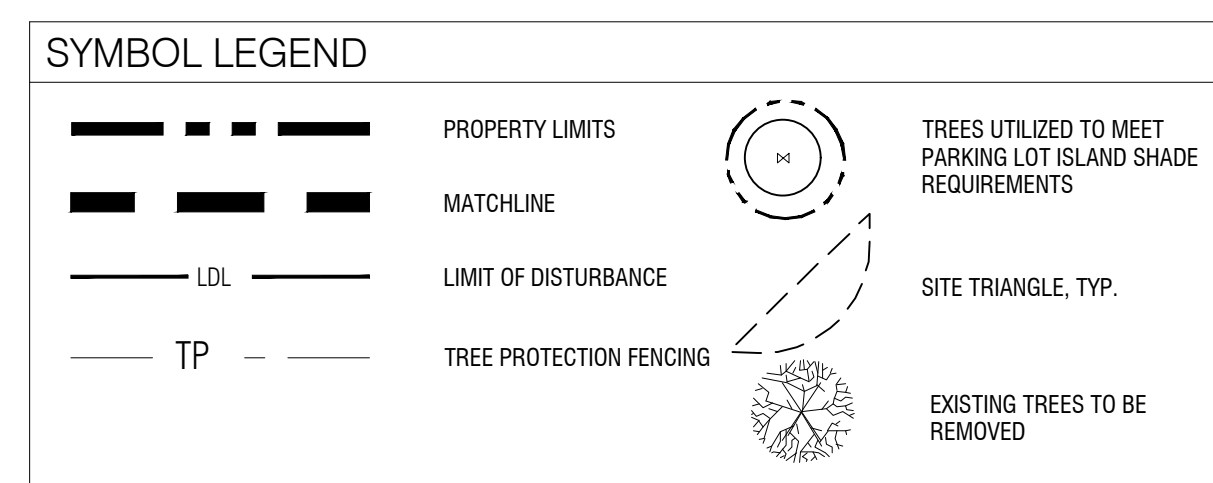
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of 3 sheets



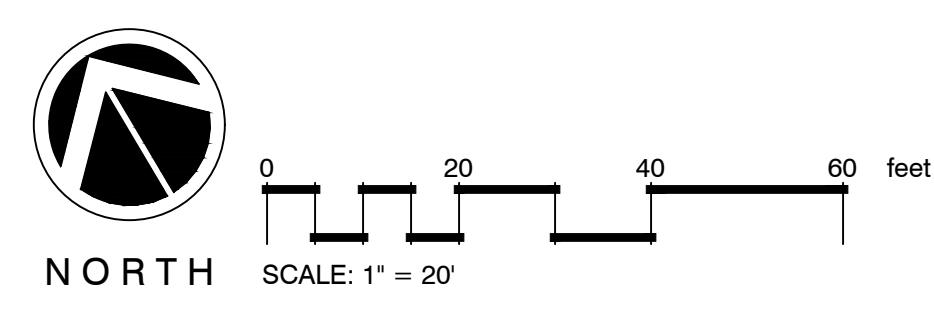


PLANT SCHEDULE L1.1

TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	MIN. REQ. SIZE	QTY
	Cercis s. Forest Parsy TM / Forest Parsy Redbud	--			2-2.5' CAL	3
	Lagerströmia x. Natchez / Natchez Crepe Myrtle	8 & B			2-2.5' CAL	3
	Magnolia s. Little Gem / Dwarf Southern Magnolia	--			7-8' HT	1
	Pinus palustris / Longleaf Pine	--			3' CAL	18
	Quercus virginiana / Southern Live Oak	8 & B			4' CAL	2
	Quercus virginiana / Southern Live Oak	8 & B			2-2.5' CAL	17
SHRUBS	BOTANICAL / COMMON NAME	CONT	SIZE	MIN. REQ. SIZE	QTY	
	Aspidistra elatior / Cast Iron Plant	3 gal	15-18" HT	12" HT	66	
	Azalea s. Formosa / Formosa Azalea	7 gal	24-36" HT	12" HT	76	
	Coccoloba argentea / Giant Elephant Ear	3 gal		12" HT	21	
	Fabica japonica / Japanese Fabica	7 gal	24-30" HT	12" HT	9	
	Illex verticillata / Dwarf Yaupon	3 gal	18-24" HT	12" HT	42	
	Ligustrum s. Rectifolium / Wax Leaf Ligustrum	7 gal		36" HT	30	
	Ligustrum japonicum / Tree Form Ligustrum	8 & B	6-8' HT	6' HT	5	
	Miscanthus s. Adagio / Adagio Eclat Grass	3 gal	18-24" HT	12" HT	99	
	Myrica cerifera / Wax Myrtle	--		3' HT	7	
	Nandina domestica / Firepower / Heavenly Bamboo	3 gal		12" HT	42	
	Parthenocissum vitacea / Dune Pencil Grass	3 gal	12-15" HT	12" HT	70	
	Pittosporum tobira / Pittosporum	7 gal	24-36" HT	12" HT	26	
	Pittosporum tobira / Wheeler's Dwarf / Dwarf Pittosporum	3 gal	12-18" HT	12" HT	29	
	Podocarpus macrophyllus maki / Shabby Yew	7 gal	3-4' HT	24" HT	27	
	Rhapidothamnum hyssoides / Needle Palm	15 gal	3-4' HT	12" HT	7	
	Rosa x. Knockout TM / Rose	7 gal	18-24" HT	12" HT	12	
	Rosa x. 'Megalpa' / Red Drift Rose	3 gal	12-15" HT	12" HT	66	
	Sabal minor / Dwarf Palmetto	7 gal	24-36" HT	24" HT	29	
	Viburnum odoratissimum / Sweet Viburnum	--		36" HT	32	
GROUND COVERS	BOTANICAL / COMMON NAME	CONT	SIZE	MIN. REQ. SIZE	QTY	
	Liriodendron s. Liriodendron	1 GAL	12-18" HT	24" o.c.	225	
	Liriodendron s. Lay Turf	1 GAL	6-12" HT	12" o.c.	568	
	Tachyparpus s. Asiatic / Asiatic Jasmine	1 sq	6-12" HT	18" o.c.	1,200	



NOTE:
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70' x 20' SITE TRIANGLE. ALL PROPOSED VEGETATION WITHIN SITE TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10', TYPICAL



Revisions
 2021-12-09: Revised per COVW comments.
 2021-12-20: Revised per Building shift

CLIENT
AUTUMN HALL COMMERCIAL BLDG 3&4 CAPE FEAR COMMERCIAL, LLC
 1051 MILITARY CUTOFF RD., SUITE 200
 WILMINGTON, NC
 CONTACT: MIKE BROWN

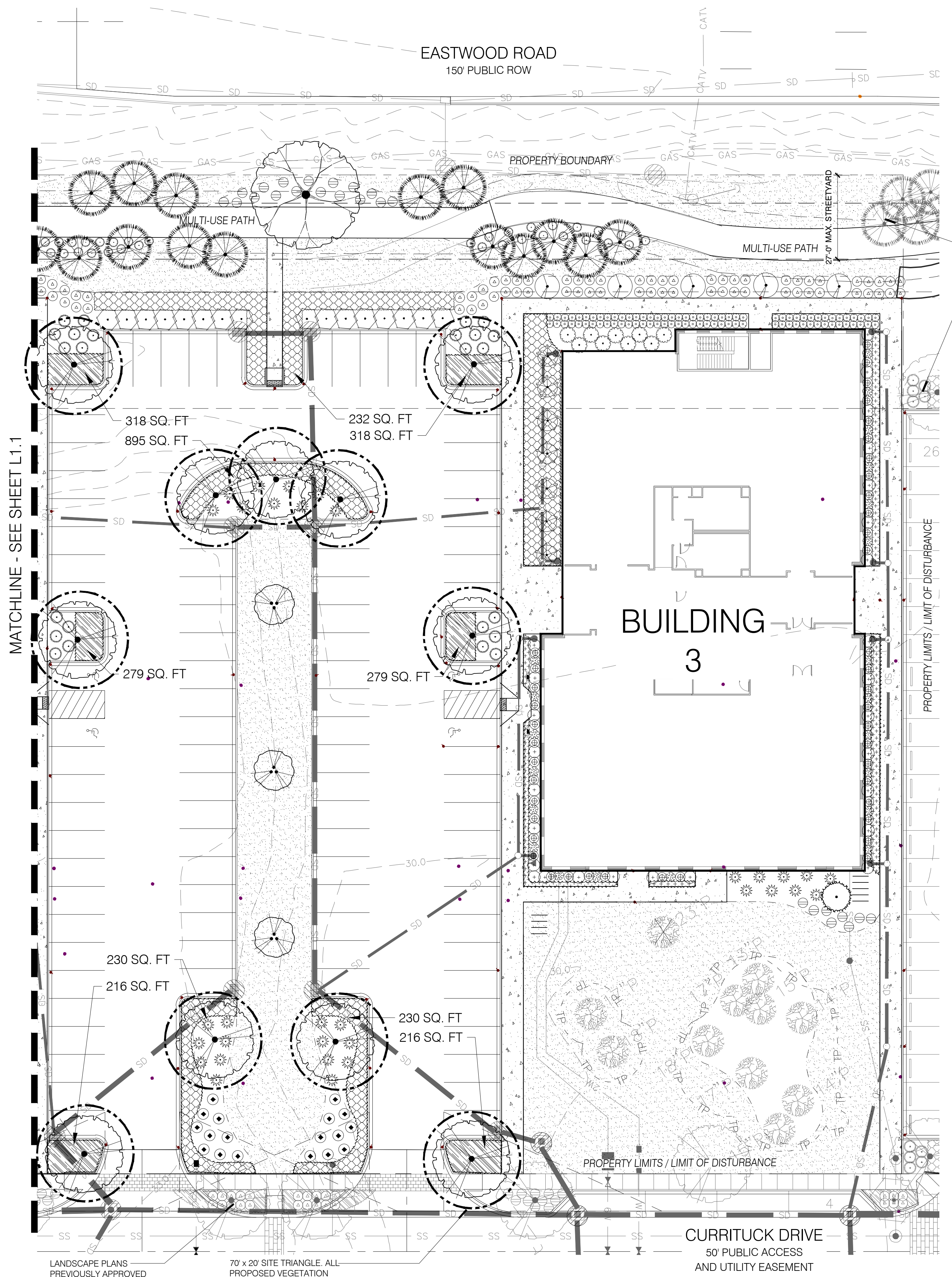
PROJECT
AUTUMN HALL COMMERCIAL BLDG 3&4
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 LANDSCAPE PLAN

PERMIT PLAN SET

Date: 2021-09-29
 Phase:
 Job Number: 400-18
 Designed by: MLD
 Drawn by: MAS
 Checked by: JWM

Sheet Title:
 PLANTING PLAN

Sheet Number:
L1.1
 of 3 sheets



MATCHLINE - SEE SHEET L1.1

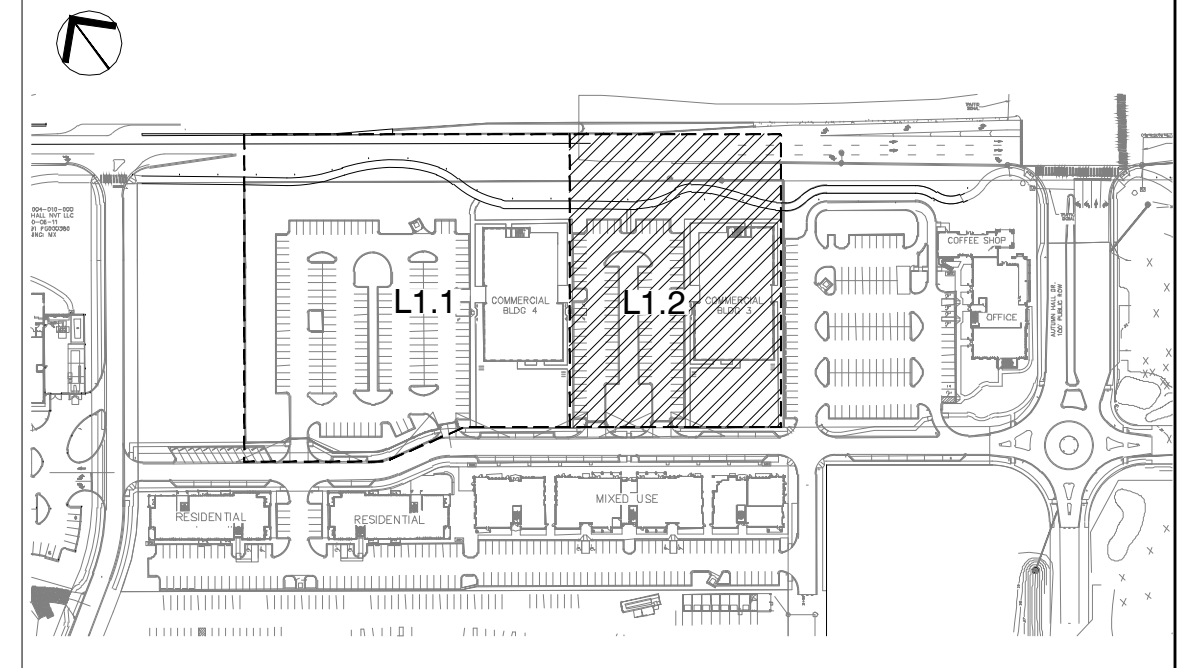
LANDSCAPE PLANS PREVIOUSLY APPROVED UNDER AUTUMN HALL COMMERCIAL PHASE 1

LANDSCAPE PLANS PREVIOUSLY APPROVED UNDER AUTUMN HALL COMMERCIAL PHASE 1

70' x 20' SITE TRIANGLE. ALL PROPOSED VEGETATION WITHIN SITE TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10', TYPICAL.

NOTE:
-ALL PROPOSED VEGETATION WITHIN SIGHT DISTANCES TRIANGLES SHALL NOT INTERFERE WITH CLEAR SIGHT LINES FROM 30' - 10'.
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KEY MAP NOT TO SCALE

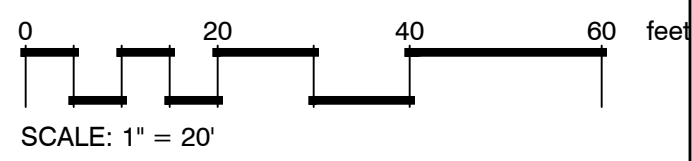
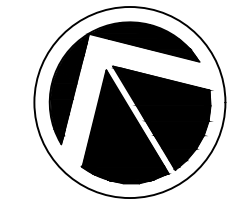
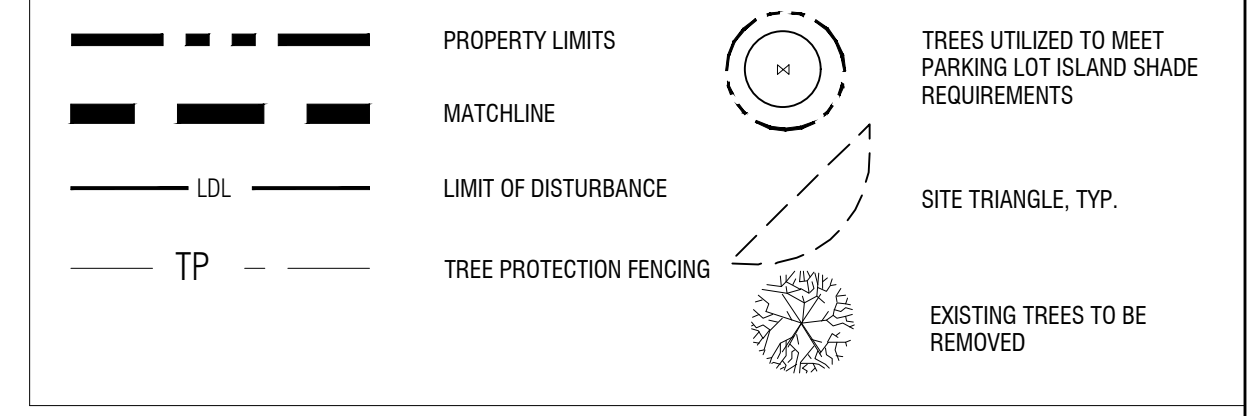


PLANT SCHEDULE L1.2

TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	MIN. REQ. SIZE	QTY
	Lagerstroemia x 'Natchez' / Natchez Crape Myrtle	B & B			2-2.5' CAL.	3
	Magnolia sp. 'Little Gem' / Dwarf Southern Magnolia			7-8' HT	2' CAL.	1
	Pinus palustris / Longleaf Pine			3' CAL.	2-2.5' CAL.	15
	Quercus virginiana / Southern Live Oak	B & B		4' CAL.	3' CAL.	1
	Quercus virginiana / Southern Live Oak	B & B			2-2.5' CAL.	11
SHRUBS	BOTANICAL / COMMON NAME	CONT	SIZE	MIN. REQ. SIZE	QTY	
	Aspidistra elatior / Cast Iron Plant	3 gal	15-18" HT	12" HT	86	
	Azalea l. 'Formosa' / Formosa Azalea	7 gal	24-36" HT	12" HT	24	
	Colocasia gigantea / Giant Elephant Ear	3 gal		12" HT	21	
	Fatsia japonica / Japanese Fatsia	7 gal	24-30" HT	12" HT	9	
	Ilex vomitoria 'Nana' / Dwarf Yaupon	3 gal	18-24" HT	12" HT	66	
	Ligustrum japonicum / Tree Form Ligustrum	B&B	6-8' HT	6' HT	5	
	Miscanthus s. 'Adagio' / Adagio Eulalia Grass	3 gal	18-24" HT	12" HT	25	
	Nandina domestica 'Firepower' / Heavenly Bamboo	3 gal		12" HT	42	
	Panicum amaranthum / Dune Panic Grass	3 gal	12-15" HT	12" HT	33	
	Podocarpus macrophyllum / Shrubby Yew	7 gal	3-4' HT	24" HT	27	
	Rhipidophyllum hybiscus / Needle Palm	15 gal	3-4' HT	12" HT	7	
	Rosa x 'Knockout' TM / Rose	7 gal	18-24" HT	12" HT	18	
	Sabal minor / Dwarf Palmetto	7 gal	24-36" HT	24" HT	32	
	Viburnum odoratissimum / Sweet Viburnum			36" HT	16	
GROUND COVERS	BOTANICAL / COMMON NAME	CONT	SIZE		QTY	
	Liriodaphne gigantea / Giant Liriodaphne	1 GAL	12-18" HT		24" o.c. 250	
	Liriodaphne muscari / Lily Turf	1 GAL	6-12" HT		12" o.c. 577	
	Trachelopogon s. 'Asiatic' / Asiatic Jasmine	1 qt	6-12" HT		18" o.c. 1,373	

NOTE:
- IN CASES WHERE PLANT CONTAINER SIZE & PLANT HEIGHT DIFFER, PLANT HEIGHT SHALL PREVAIL.

SYMBOL LEGEND



MIHALY
LAND DESIGN
PLANNING + LANDSCAPE ARCHITECTURE

CLIENT
AUTUMN HALL COMMERCIAL BLDG 3&4 CAPE FEAR COMMERCIAL, LLC
1051 MILITARY CUTOFF RD., SUITE 200
WILMINGTON, NC
CONTACT: MIKE BROWN

PROJECT
AUTUMN HALL COMMERCIAL BLDG 3&4
1202 EASTWOOD ROAD
WILMINGTON, NC
LANDSCAPE PLAN

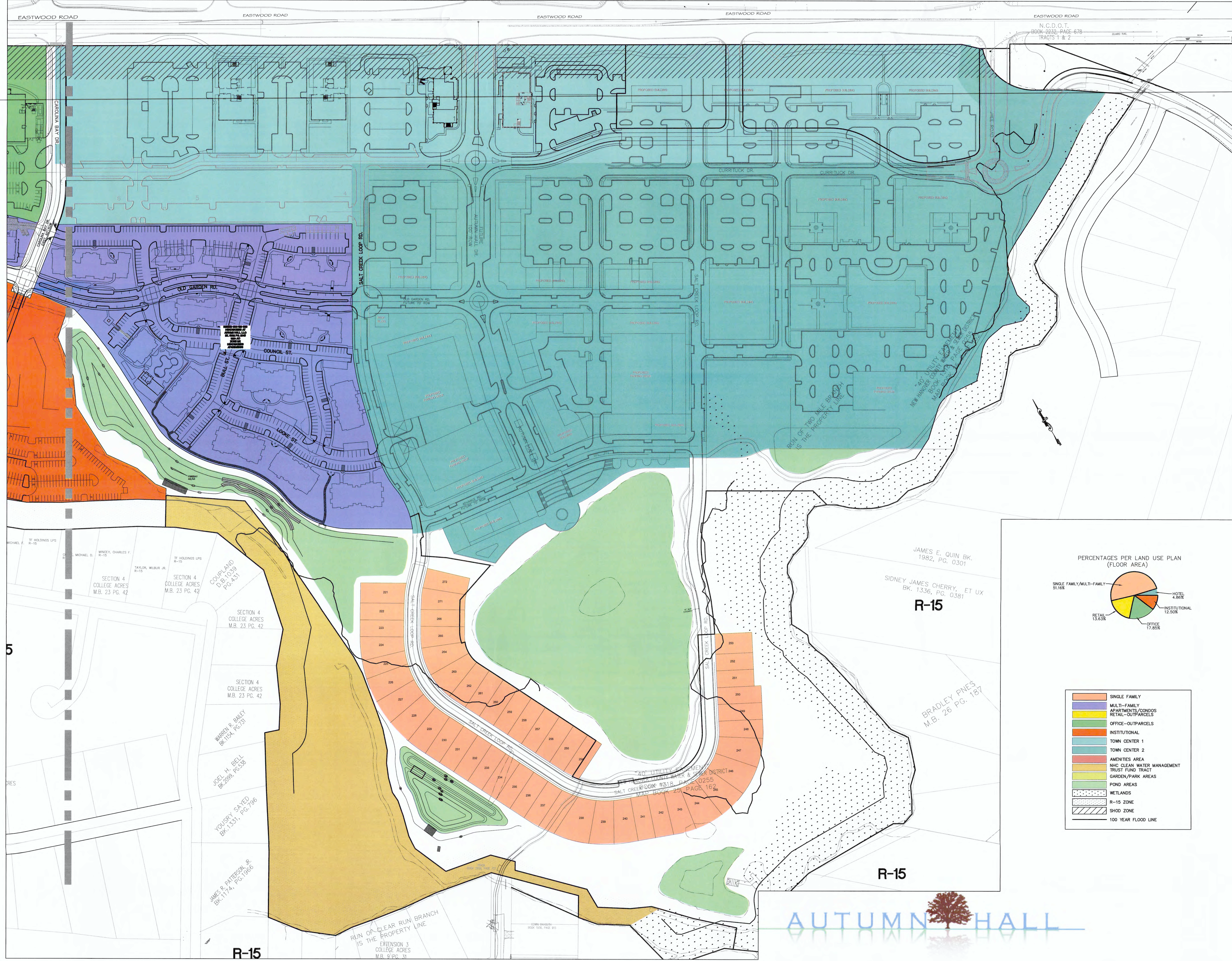
PERMIT PLAN SET

Date: 2021-09-29
Phase:
Job Number: 400-18
Designed by: MLD
Drawn by: MAS
Checked by: JWM

Sheet Title:
PLANTING PLAN

Sheet Number:

L1.2
of 3 sheets



NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

RAMEY KEMP & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS



Wilmington
North Carolina

AUTUMN HALL TOWN CENTER

Wilmington
North Carolina

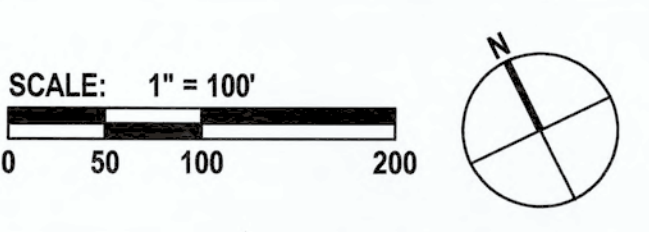
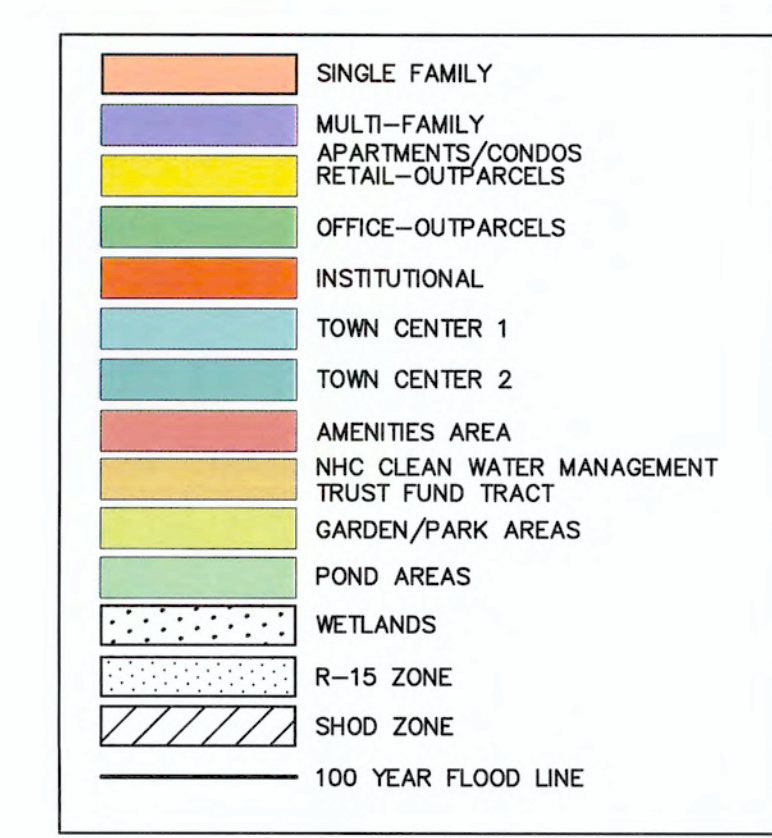
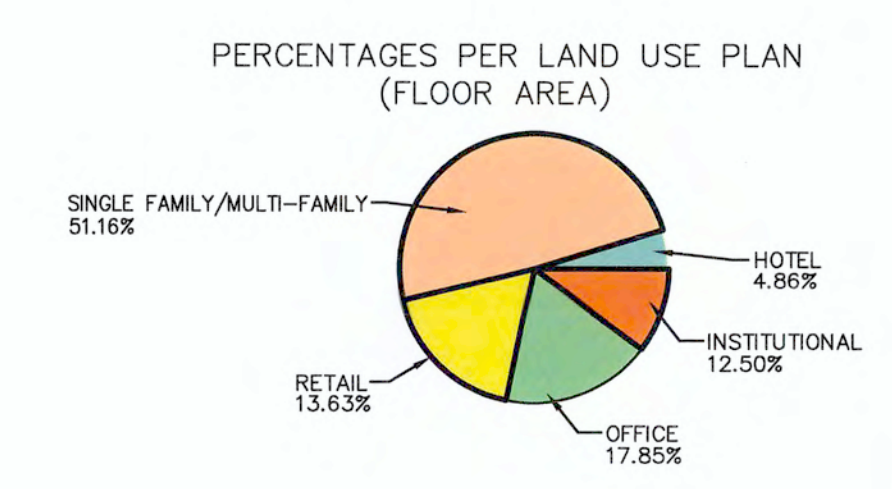
LAND USE PLAN

Project No.
50120 (NKT 05150)

Issued
4/17/07

Revised

10/28/13
5/30/19 AUTUMN HALL COMMERCIAL PH 1
4/01/20 AUTUMN HALL BANK BUILDING
12/13/21 AUTUMN HALL COMMERCIAL BUILDINGS 3&4



LU1.1

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VICINITY MAP N.T.S.

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406 N. 3RD ST. WILMINGTON, N.C. 28401, 910-772-9113

LEGEND

■	OPEN SPACE
■	COMMON SPACE
■	OPEN SPACE/COMMON SPACE



NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

RAMEY KEMP & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS



Wilmington
North Carolina

AUTUMN HALL TOWN CENTER

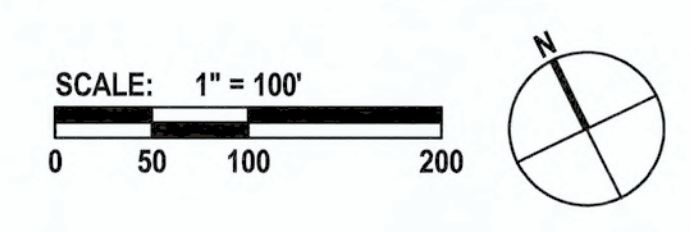
Wilmington
North Carolina

OPEN SPACE COMMON SPACE PLAN

Project No.
50120 (NKT 05150)

Issued
4/17/07

Revised
10/28/13
5/30/19 AUTUMN HALL COMMERCIAL PH 1
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