

PROPOSED DISCOUNT[®] TIRE

5335 MARKET STREET
WILMINGTON, NEW HANOVER COUNTY, NC 28405

TAX PARCEL IDENTIFICATION #: R04912-002-026-000

UTILITY/GOVERNMENTAL
CONTACT LIST:

GAS COMPANY:

PIEDMONT NATURAL GAS
1321 S 10TH ST
WILMINGTON, NC 28401
PHONE: 877-279-3636

TELEPHONE COMPANY:

AT&T
PHONE: 800-222-0300

ELECTRIC COMPANY:

DUKE ENERGY PROGRESS
PHONE: 866-582-6345

SANITARY SEWER COMPANY:

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DR
WILMINGTON, NC 28403
PHONE: 910-332-6620
CONTACT: BERNICE JOHNSON

WATER COMPANY:

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DR
WILMINGTON, NC 28403
PHONE: 910-332-6620
CONTACT: BERNICE JOHNSON

LOCAL PLANNING AND ZONING OFFICE

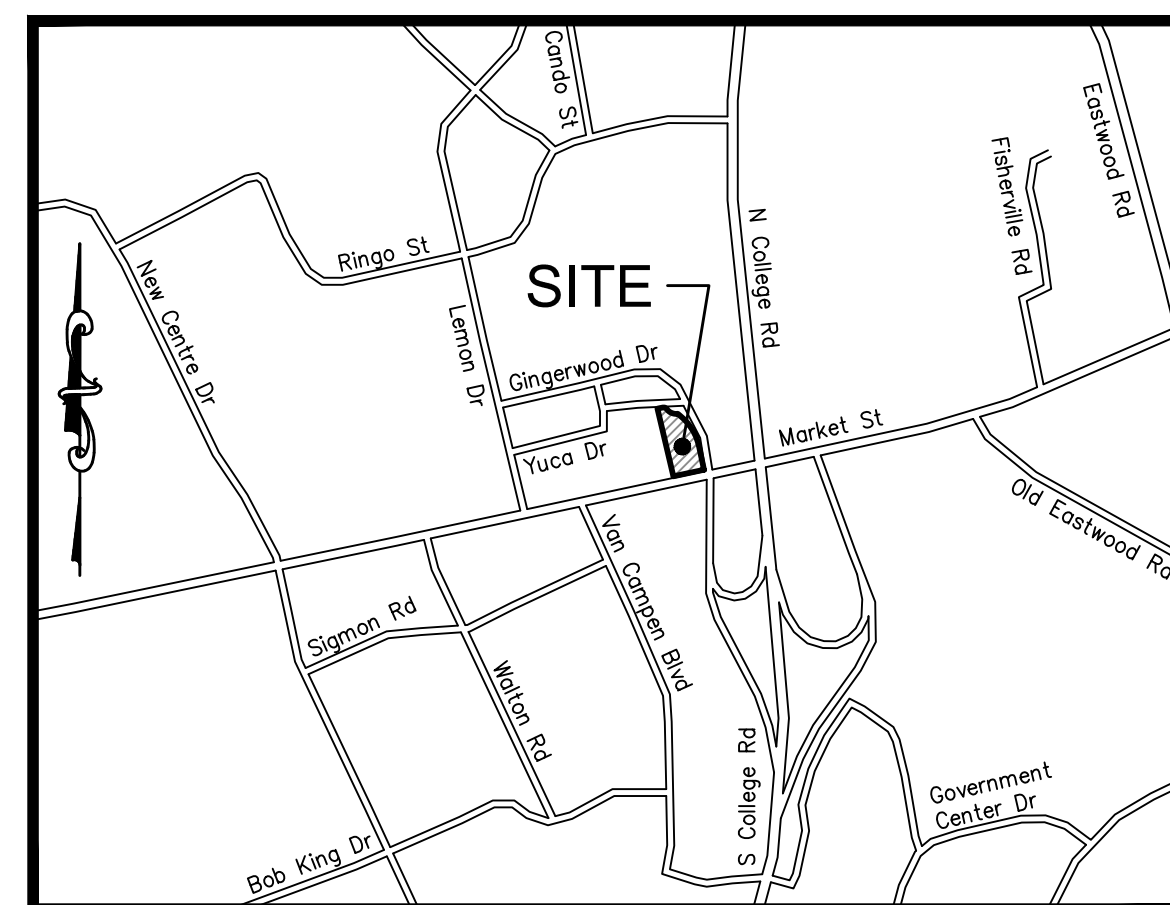
CITY OF WILMINGTON
305 CHESTNUT ST
WILMINGTON, NC 28402
PHONE: 910-341-1611
CONTACT: NICOLE SMITH

LOCAL ENGINEERING DEPARTMENT

CITY OF WILMINGTON
212 OPERATIONS CENTER DR
WILMINGTON, NC 28412
PHONE: 910-341-5856
CONTACT: ROBERT GORDON

FIRE DEPARTMENT

WILMINGTON FIRE DEPARTMENT
230 GOVERNMENT CENTER DR, SUITE 150
WILMINGTON, NC 28403
PHONE: 910-343-3918
CONTACT: CHRIS WALK



LOCATION MAP
1"=1,000 FEET

SHEET INDEX		
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ENGINEER-



3471 DONAVILLE ST
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

Donaville Group, INC.

OWNER/DEVELOPER-

DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PHONE: (480) 606-6000




Know what's below
Call before you dig

CITY OF WILMINGTON NOTES:

- SEC. 18-310. - TIRE DEALERS AND SERVICE.
TIRE DEALERS AND SERVICE SHALL COMPLY WITH THE FOLLOWING:
(a) ALL PERMANENT STORAGE OF MATERIALS, MERCHANDISE AND LUBRICATION, REPAIR AND SERVICING EQUIPMENT SHALL BE WITHIN THE PRINCIPAL BUILDING.
(b) ALL REPAIR WORK SHALL BE CONDUCTED WITHIN THE PRINCIPAL BUILDING.
(c) NO OPERATOR SHALL PERMIT THE STORAGE OF MOTOR VEHICLES FOR A CONTINUOUS PERIOD IN EXCESS OF TWENTY-FOUR (24) HOURS UNLESS THE VEHICLE IS ENCLOSED IN THE PRINCIPAL BUILDING.
(d) ACCESSORY BUILDINGS ARE PROHIBITED.
(e) AUTOMOTIVE WRECKERS OR OTHER SERVICE VEHICLES SHALL BE STORED INSIDE THE PRINCIPAL BUILDING AFTER BUSINESS HOURS.
(f) WRECKERS AND SERVICE OR CUSTOMER VEHICLES SHALL BE PARKED ON THE PREMISES IN A MANNER WHICH WILL NOT CREATE TRAFFIC HAZARDS OR INTERFERE WITH VEHICULAR MANEUVERING AREAS NECESSARY FOR SERVICE BAYS, REQUIRED OFF-STREET PARKING SPACES OR ACCESS TO TRASH STORAGE FACILITIES.
(g) NO OPERATOR SHALL USE THE PREMISES FOR THE SALE OR RENTAL OF NEW OR USED VEHICLES.

Approved Construction Plan

Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____


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

NO.	REVISION	DATE	CONSULTANT:	DEVELOPER:	DISCLAIMER:	STORE NUMBER:	SHEET TITLE:	SHEET NUMBER:
			 Donaville Group, INC. 3471 DONAVILLE ST. DULUTH, GA 30096 PHONE: 404-567-5701 FAX: 404-567-5703	DISCOUNT TIRE COMPANY 20225 N. SCOTTSDALE RD. SCOTTSDALE, AZ 85255 PH: 480-606-6000	THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF DISCOUNT TIRE COMPANY AND SHALL REMAIN THEIR PROPERTY. THE USE OF THIS DRAWING SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT WAS PREPARED. PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH.	NCC 39 BDG # 18-111 PROJECT MANAGER: DON THRAILKILL PROJECT CIVIL ENGINEER: JOSHUA COX PH: (404) 567-5701 Ext 105 DRAWN BY: SC	COVER SHEET	C-0

BOUNDARY AND TOPOGRAPHIC SURVEY

THE SHAH TRUST DATED JUNE 1ST 2005

COLLEGE MARKET COMMERCIAL SUBDIVISION
ALL OF LOT 2 - 1.02 ACRES +/-
MAP BOOK 34 PAGE 398

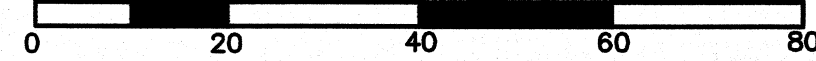
CITY OF WILMINGTON NEW HANOVER COUNTY
NORTH CAROLINA

CLIENT: HALLE PROPERTIES, LLC AND FIRST
COMMONWEALTH LAND AND TITLE INSURANCE COMPANY
C/O Kelly J. Wagoner, P.E. CPESC
Principal/Senior Project Manager
3471 Donaville Street
Duluth, GA, 30096

MICHAEL UNDERWOOD and ASSOCIATES, PA
102 CINEMA DRIVE, SUITE A
WILMINGTON, NC 28403
PHONE: 910-815-0650
FAX: 910-815-0393
E-MAIL: muo@uzec.com Firm License #C-0615

SURVEYED: MR/DC APPROVED: MNU
DRAWN BY: TBM DATE: MARCH, 19
CHECKED BY: MNU SCALE: 1"=20'

GRAPHIC SCALE: 1"=20'



SURVEY REFERENCE
BOOK 1943 PAGE 610
MAP BOOK 34 PAGE 398

- LEGEND
- EIP EXISTING IRON PIPE
 - EIR EXISTING IRON REBAR
 - IPS IRON PIPE SET
 - DI DROP INLET
 - FO FIBER OPTIC WARNING POST
 - LP LIGHT POLE
 - CO CLEANOUT
 - GM GAS METER
 - UE UNDERGROUND ELECTRIC
 - OHP OVERHEAD POWER
 - SD STORM DRAIN

- UTILITY LEGEND
- W WATERLINE
 - SS SANITARY SEWER
 - UE UNDERGROUND ELECTRIC
 - UG UNDERGROUND GAS
 - UT UNDERGROUND TELEPHONE

NOW OR FORMERLY
INKKEEPER PROPERTIES INC
BOOK 1959 PAGE 687

"GINGERWOOD DRIVE"
(PUBLIC R/W WIDTH VARIES)
BASED ON INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

PRIVATE ROAD EASEMENT
MAP BOOK 34 PAGE 398

ACCESS AREA #1
(PRIVATE DRIVE)
BOOK 5028 PAGE 988

COLLEGE MARKET COMMERCIAL SUBDIVISION
ALL OF LOT 2 - 1.02 ACRES +/-
MAP BOOK 34 PAGE 398

EXISTING MASONRY
BUILDING
FFE=39.41

Curve #	Radius	Delta	Length	Chord	Tangent	Chord Direction
C1	287.50'	11°07'19"	55.81'	55.72'	27.99'	N14°21'08"W
C2	262.50'	28°25'32"	130.23'	128.90'	66.49'	N34°07'35"W
C3	262.50'	2°42'01"	12.37'	12.37'	6.19'	N49°41'22"W
C4	55.50'	62°28'16"	60.51'	57.96'	33.66'	S63°34'26"E
C5	19.50'	66°33'30"	22.65'	21.40'	12.80'	N65°36'37"W

COLLEGE ROAD

NOW OR FORMERLY
GALLIMORE FAMILY LLC
BOOK 5931 PAGE 1067

10' TEMPORARY CONSTRUCTION EASEMENT
WESTERN AUTO SUPPLY
COMPANY TRACT
BOOK 5028 PAGE 988

30' PUBLIC UTILITY EASEMENT
MAP BOOK 34 PAGE 398

PRIVATE ROAD EASEMENT
MAP BOOK 34 PAGE 398

SD MANHOLE
RIM 37.61

CURB INLET
GUT 37.01
INV 36.99

TRAFFIC SIGNAL
SUPPORT POLE
W/ GUY

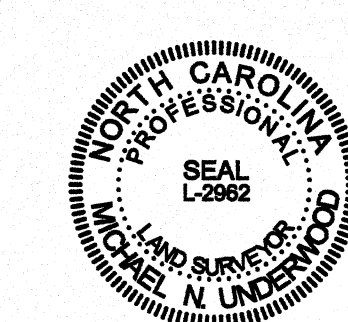
PART OF WESTERN
AUTO TRACT (342 SF)
BOOK 5028 PAGE 988

ACCESS AREA #1
(PRIVATE DRIVE)
BOOK 5028 PAGE 988

US HIGHWAY 17
MARKET STREET
(PUBLIC)

PUBLIC ACCESS EASEMENT
WESTERN AUTO SUPPLY
COMPANY TRACT
BOOK 5028 PAGE 988

10' TEMPORARY CONSTRUCTION EASEMENT
WESTERN AUTO SUPPLY
COMPANY TRACT
BOOK 5028 PAGE 988



NORTH CAROLINA
NEW HANOVER COUNTY

I, MICHAEL N. UNDERWOOD, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION DESCRIPTION AS SHOWN ON THE FACE OF THIS PLAT RATIO OF PRECISION AS CALCULATED BY COMPUTER IS 1/10,000 + THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN BY BROKEN LINES PLOTTED FROM INFORMATION REFERENCED THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH "THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA" WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 11TH DAY OF MARCH A.D., 2019

Michael N. Underwood
MICHAEL N. UNDERWOOD, P.L.S.
LICENSE NUMBER L-2962
SEAL OR STAMP



Know what's below
Call before you dig

NOW OR FORMERLY
INNKEEPER PROPERTIES INC
BOOK 1959 PAGE 687

NOW OR FORMERLY
GALLIMORE FAMILY LLC
BOOK 5931 PAGE 1067

ACCESS AREA #1
(PRIVATE DRIVE)
BOOK 5028 PAGE 988

"GINGERWOOD DRIVE"
(PUBLIC R/W WIDTH VARIES)
BASED ON INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

10' TEMPORARY CONSTRUCTION EASEMENT
WESTERN AUTO SUPPLY
COMPANY TRACT
BOOK 5028 PAGE 988

PRIVATE ROAD EASEMENT
MAP BOOK 34 PAGE 398

PUBLIC ACCESS EASEMENT
WESTERN AUTO SUPPLY
COMPANY TRACT
BOOK 5028 PAGE 988

30' PUBLIC UTILITY EASEMENT
MAP BOOK 34 PAGE 398

ACCESS AREA #1
(PRIVATE DRIVE)
BOOK 5028 PAGE 988

EXISTING DRIVE
CUT TO REMAIN

EXISTING DRIVE
CUT TO REMAIN

15" RCP
12" BP
15" RCP
12" BP

TRAFFIC SIGNAL
SUPPORT POLE
W/ GUY

PART OF WESTERN
AUTO TRACT (342 SF)
BOOK 5028 PAGE 988

ACCESS AREA #1
(PRIVATE DRIVE)
BOOK 5028 PAGE 988

CURB INLET
GUT 38.36
INV. 33.84(in)
INV. 33.64(out)

DROP INLET
TOP 37.39
INV. 35.58

DROP INLET
TOP 36.78
INV. 34.86

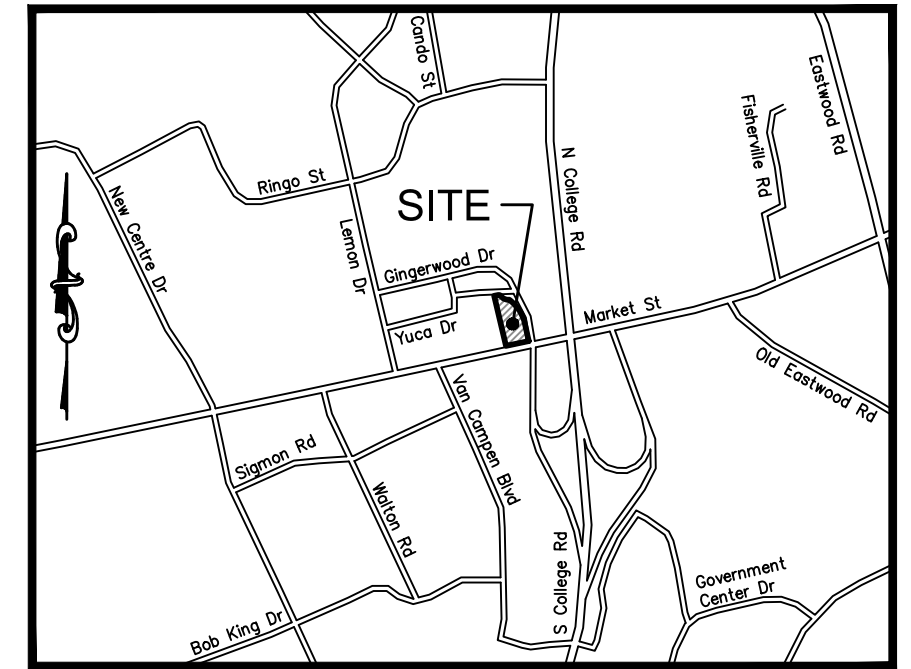
DROP INLET
TOP 37.44
INV. 34.00(in)
INV. 33.73(out)

DROP INLET
TOP 37.35
INV. 33.82

NOW OR FORMERLY
CC INVESTORS 1996-3
BOOK 2203 PAGE 182

DEMOLITION PLAN LEGEND

- DENOTES SPECIFIC EXISTING ITEMS TO BE DEMOLISHED (DARKENED)
- DENOTES EXISTING ITEMS TO REMAIN (SCREENED)
- DENOTES BUILDING DEMOLITION
- DENOTES PAVEMENT DEMOLITION



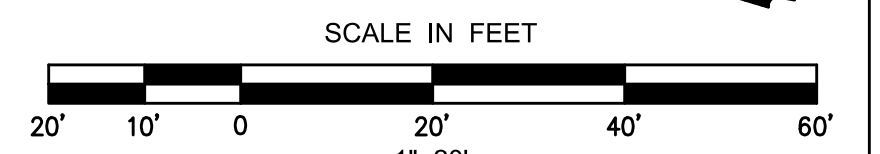
LOCATION MAP
NOT TO SCALE

DEMOLITION NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF THE BUILDINGS.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL &/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES & ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES & CHARGES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION & REMOVAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL & BROUGHT TO GRADE WITH SUITABLE, COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION & REMOVAL OF ALL STRUCTURES, UTILITIES, ETC. SHOWN OR NOT ON THE PLANS SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED & IS RESPONSIBLE FOR REMOVING & DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER.
- ALL EXISTING UTILITIES ARE TO BE REMOVED, TERMINATED & CAPPED AT THE RIGHT-OF-WAY. ALL EXISTING METERS, VALVES, ETC. ARE TO BE REMOVED ALSO.
- ALL EXISTING SERVICE LINES FOR TELEPHONE, ELECTRIC, SEWER, & CABLE T.V. SERVICES ARE TO BE REMOVED TO EXISTING TRUNK LINES. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED.
- CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED IN THE REMOVAL OR RELOCATION OF ANY UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH APPLICABLE UTILITY COMPANIES.
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING ADJACENT BUSINESSES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE TENANT & UTILITY COMPANY FOR THE RELOCATION &/OR REMOVAL OF UTILITIES IF NECESSARY. SERVICE SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE TENANT.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THE UTILITIES SHOULD BE ABANDONED OR REMOVED.
- IT IS CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE UTILITIES ON THE SITE TO GET A DETERMINATION IF ANY UTILITIES EXISTING WILL BE IMPACTED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THE UTILITIES SHOULD BE ABANDONED OR REMOVED.
- ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, &/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED & COMPACTED PER THE REQUIREMENTS OF SPECIFICATIONS & THE OWNERS GEOTECHNICAL ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR WALKING SITE & DETERMINING EXTENTS OF DEMOLITION WORK PRIOR TO BID DATE.
- EXISTING MANHOLES & VALVE BOXES TO REMAIN IN PLACE SHALL BE ADJUSTED TO FINAL GRADES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTIICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
- ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY CONSTRUCTION MANAGER.
- CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS; BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
- THE CONTRACTOR SHALL COORDINATE WATERMAIN WORK WITH THE FIRE DEPT. AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE STORE AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATERMAIN SHUT OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND AS PART OF THE BASE BID.
- DAMAGE TO ANY EXISTING CONDITIONS TO REMAIN WILL BE REPLACED/REPAIRED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR TO REPLACE/REPAIR ASPHALT AS NEEDED AFTER DEMOLITION, ABANDONMENT, OR RELOCATION OF PAVING, UTILITIES, STRUCTURES, ETC. AS PART OF THE BASE BID.
- NO EQUIPMENT SHALL BE STORED WITHIN IN ANY RIGHT-OF-WAY WITH OUT PERMISSION OF RIGHT-OF-WAY OWNER.

DEMOLITION LEGEND

- (A) EXISTING PAVEMENT/CONCRETE TO BE REMOVED.
- (B) EXISTING STORM SEWER, MANHOLES AND INLETS TO BE REMOVED.
- (C) EXISTING ELECTRICAL AND TELEPHONE SERVICE LINES, BOXES AND TRANSFORMERS TO BE REMOVED.
- (D) EXISTING SANITARY SEWER LATERAL AND CLEANOUTS TO BE REMOVED.
- (E) EXISTING WATER LATERAL, VALVES, THRUST BLOCKS, ETC. TO BE REMOVED.
- (F) EXISTING GAS METER AND LATERAL TO BE REMOVED.
- (G) EXISTING BOLLARD TO BE REMOVED.
- (H) EXISTING SIGN TO BE REMOVED.
- (I) EXISTING WALL TO BE REMOVED.
- (J) EXISTING CURB AND GUTTER TO BE REMOVED.
- (K) EXISTING TREE TO BE REMOVED.
- (L) EXISTING LIGHT POLE TO BE REMOVED.



Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

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

NO.	REVISION	DATE	CONSULTANT:

DG
Donaville Group, INC.
3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

NORTH CAROLINA
PROFESSIONAL
SEAL
024855
3/10/19
ENGINEER
JOSHUA W. COX
C-4217

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

DISCOUNT TIRE

DISCLAIMER:
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**5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405**

STORE NUMBER:
NCC 39
BDG # 18-111
PROJECT MANAGER:
DON THRAILKILL
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105
DRAWN BY:
SC

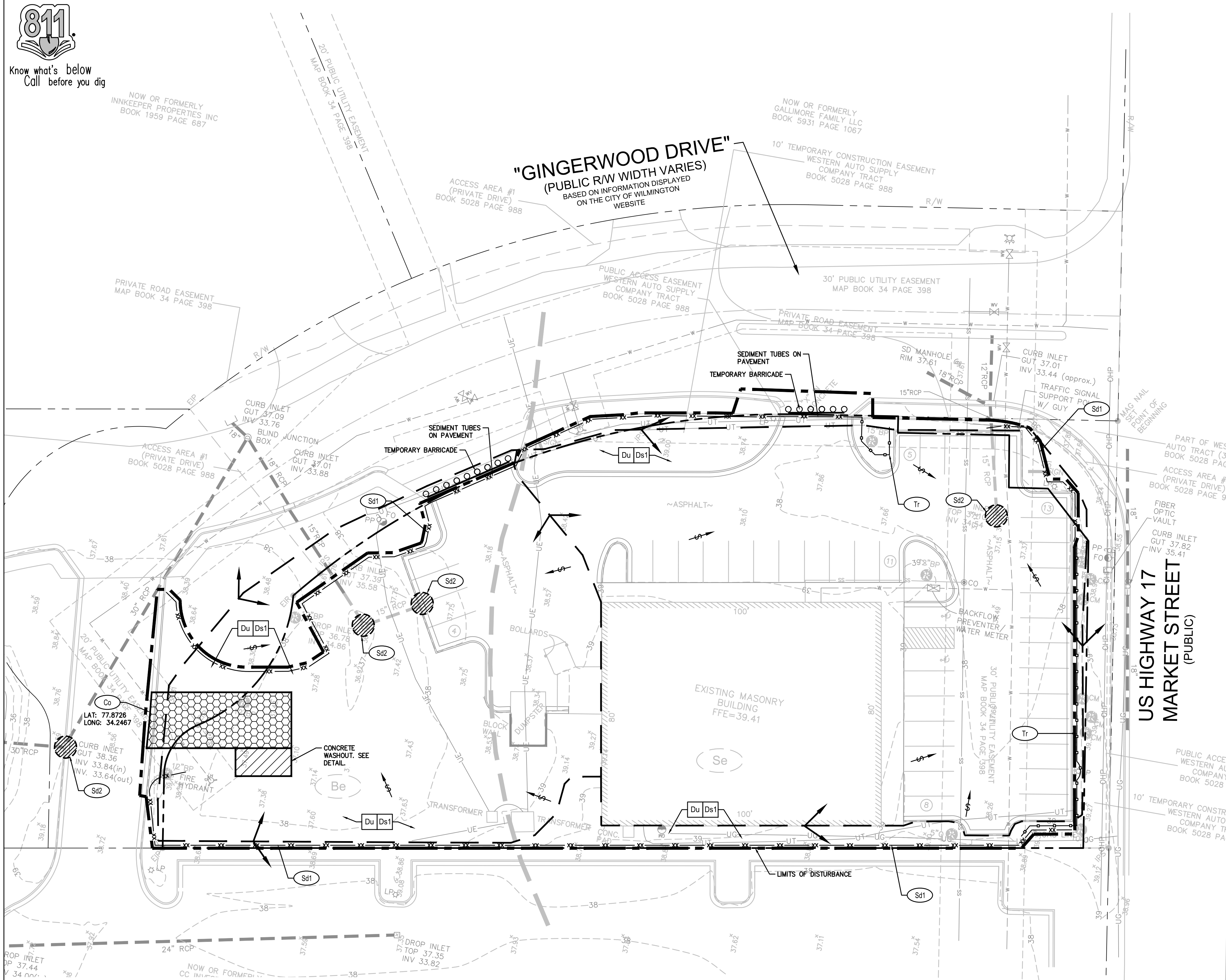
SHEET TITLE:
DEMOLITION PLAN
DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
DE-1



Know what's below
Call before you dig

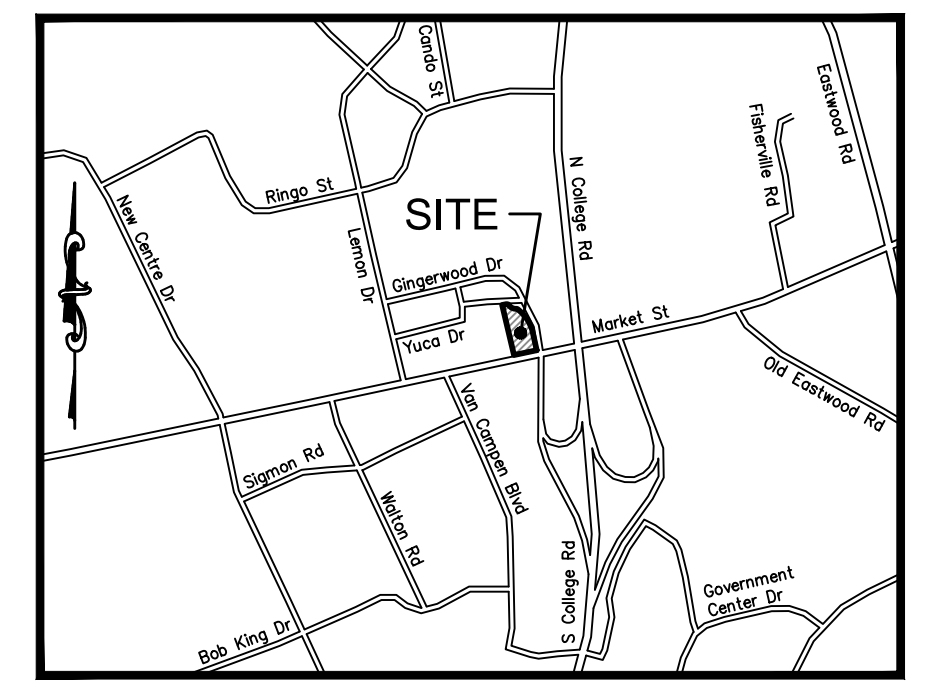
NOW OR FORMERLY
INNKKEEPER PROPERTIES INC
BOOK 1959 PAGE 687



ACREAGE SUMMARY	
DISCOUNT TIRE SITE AREA	1.02± AC (44,312± SF)
ON-SITE DISTURBED AREA	40,685± SF
OFF-SITE DISTURBED AREA	2,811± SF
TOTAL DISTURBED AREA	43,496± SF
IMPERVIOUS AREA AT COMPLETION	32,000± SF
PERVIOUS AREA AT COMPLETION	12,312± SF

24 HR LOCAL EMERGENCY CONTACT	
JOSHUA COX DONAVILLE GROUP, LLC	(404)567-5701
(CONTRACTOR'S NAME)	(PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.



LOCATION MAP

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

REFER TO PLAN SHEET ES-4 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

PHASE I

- INSTALL STABILIZED CONSTRUCTION EXIT(S).
- INSTALL SILT FENCE(S) ON THE SITE. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
- PREPARE TEMPORARY PARKING AND STORAGE AREA. CONTRACTOR TO DENOTE AREAS ON SITE MAPS AS THEY ARE INSTALLED.
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DEVELOPER/OWNER:
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20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

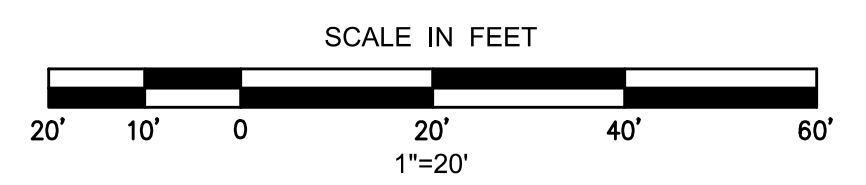
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SOIL SERIES LEGEND

Be	BAYMADE FINE SAND, 1-6% SLOPES
Se	SEAGATE FINE SAND

EROSION CONTROL LEGEND

	PROPERTY LINE
	LIMITS OF DISTURBANCE
	CONTOUR ELEVATIONS
	STORM DRAIN
	DIRECTION OF OVERLAND FLOW
	LIMITS OF DRAINAGE SUB-BASIN
	SOIL SERIES BOUNDARY
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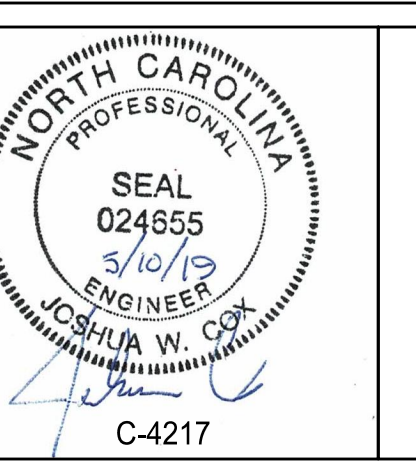


Approved Construction Plan	
Name	Date
Planning	
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APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
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NO.	REVISION	DATE	CONSULTANT:



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PROJECT MANAGER:
DON THRAILKILL

PROJECT CIVIL ENGINEER:
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PH: (404) 567-5701
Ext 105

DRAWN BY:
SC

SHEET TITLE:
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EROSION
SEDIMENTATION &
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CONTROL PLAN

DATE: MAY 8, 2019
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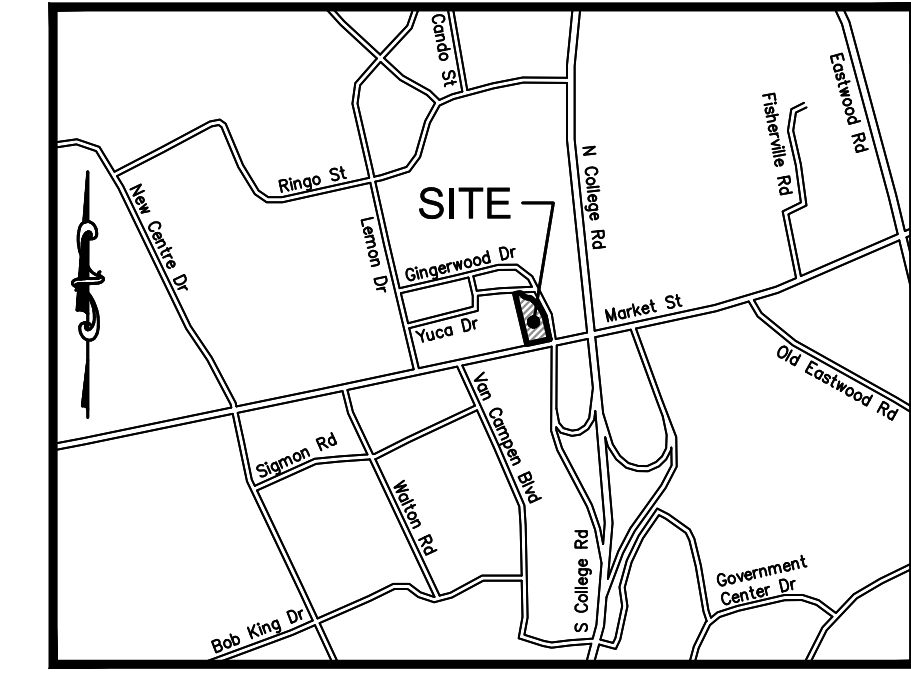
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(CONTRACTOR'S NAME)	(PHONE NUMBER)

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NOT TO SCALE

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CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
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SCOTTSDALE, AZ 85255
PH: 480-606-6000

SITE OPERATOR/GENERAL CONTRACTOR:

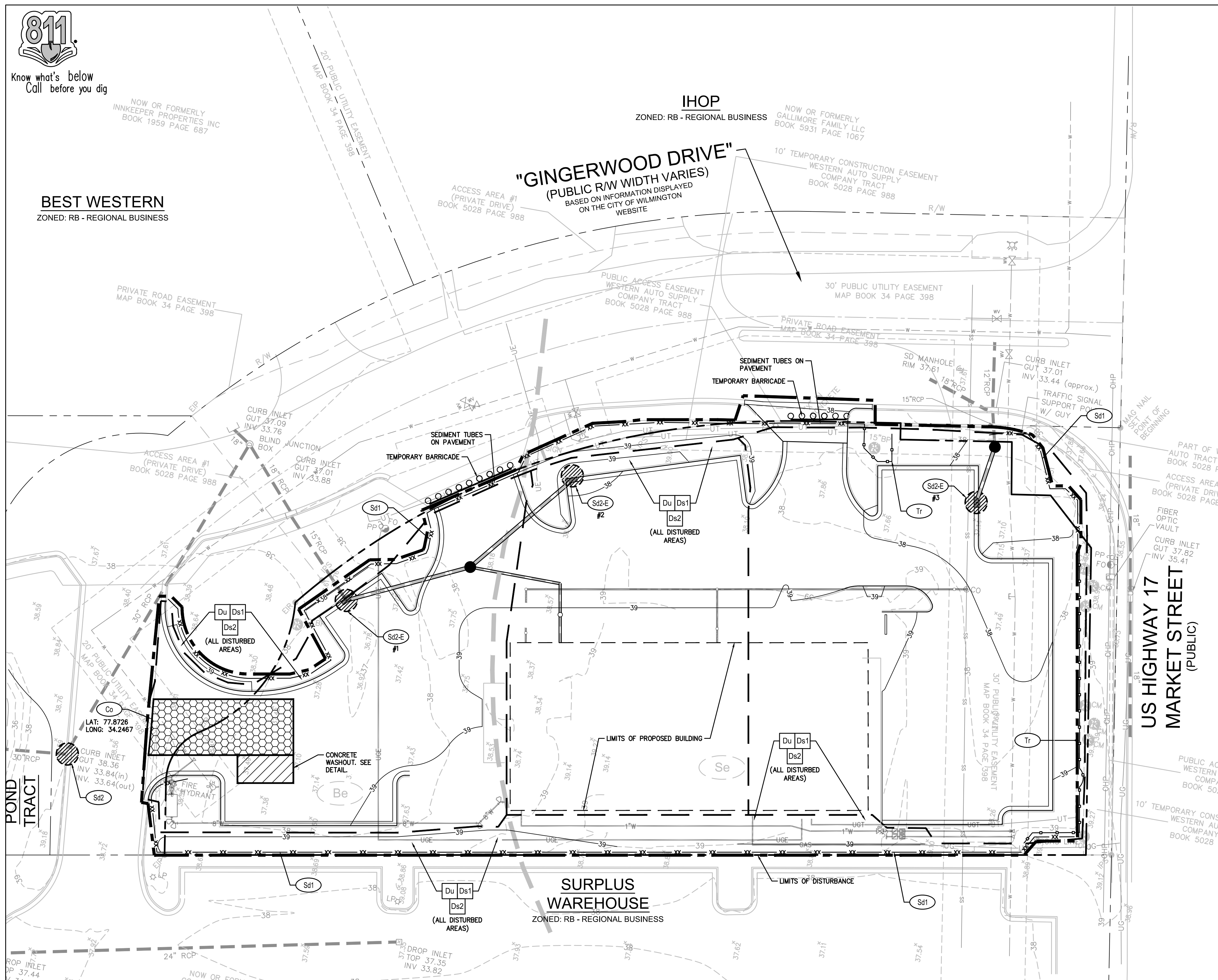
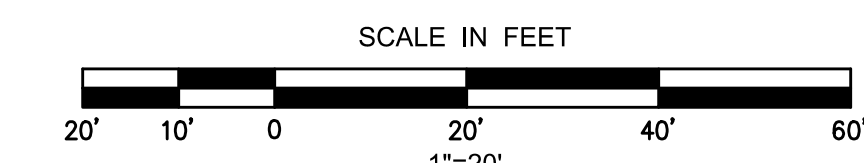
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Sd2-E - INLET SEDIMENT TRAP CALCULATIONS

TRAP NAME	(1) DRAINAGE AREA (AC)	(2) REQ'D SEDIMENT STORAGE (CY)	(3) PROVIDED STORAGE (CY)	(4) DEPTH (FEET)	(5) SIDE SLOPE	(6) SURFACE AREA (SQ. FT.)	(7) SHAPE	(8) DIMENSIONS (FEET)
#1	0.25	16.75	16.8	2'	3:1	228	RECT.	12'x19'
#2	0.25	16.75	16.8	2'	3:1	228	RECT.	12'x19'
#3	0.39	26.13	26.6	2'	3:1	360	RECT.	15'x24'

NOTE: CONTRACTOR TO ADJUST ABOVE DIMENSIONS BASED ON CONSTRUCTION PROGRESS TO ENSURE MINIMUM STORAGE VOLUMES ARE MET AT ALL TIMES. SURFACE AREA IS MEASURED AT THE BOTTOM.



Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

City of **WILMINGTON** NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
Signed: _____

NO.	REVISION	DATE	CONSULTANT:

DG
Donaville Group, INC.
3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 024855
3/10/19
JOSHUA W. COX
C-4217

DEVELOPER:
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20225 N. SCOTTSDALE RD.
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Ext 105

DRAWN BY:
SC

SHEET TITLE:
PHASE II - SITE MAP
EROSION
SEDIMENTATION &
POLLUTION
CONTROL PLAN

DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
ES-2

USGS: G1548 - May 21, 2014 - 6:57am
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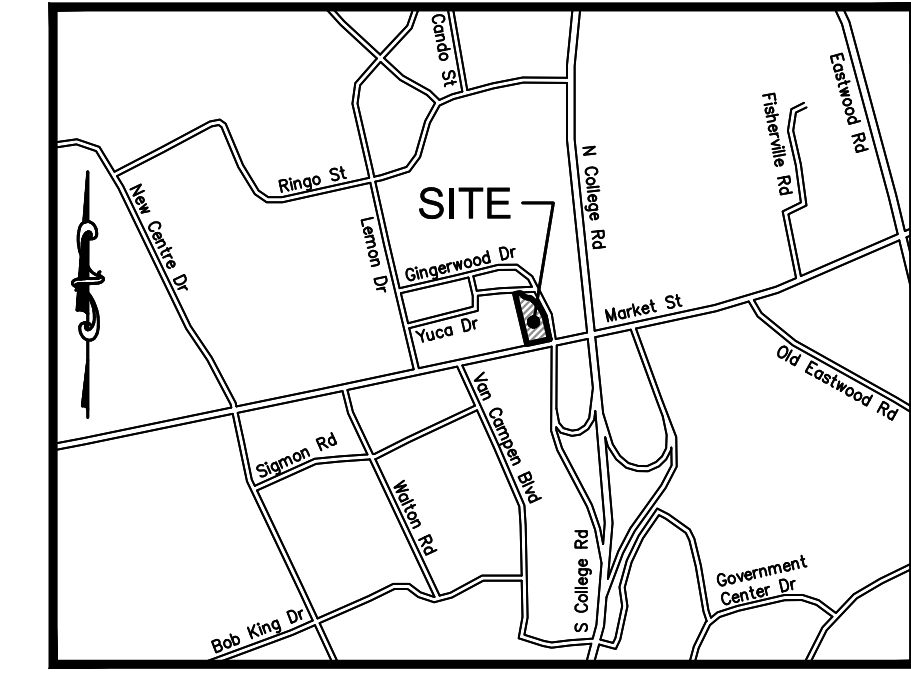
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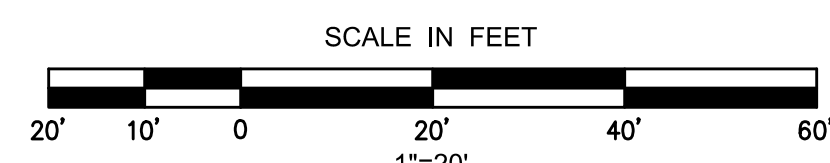
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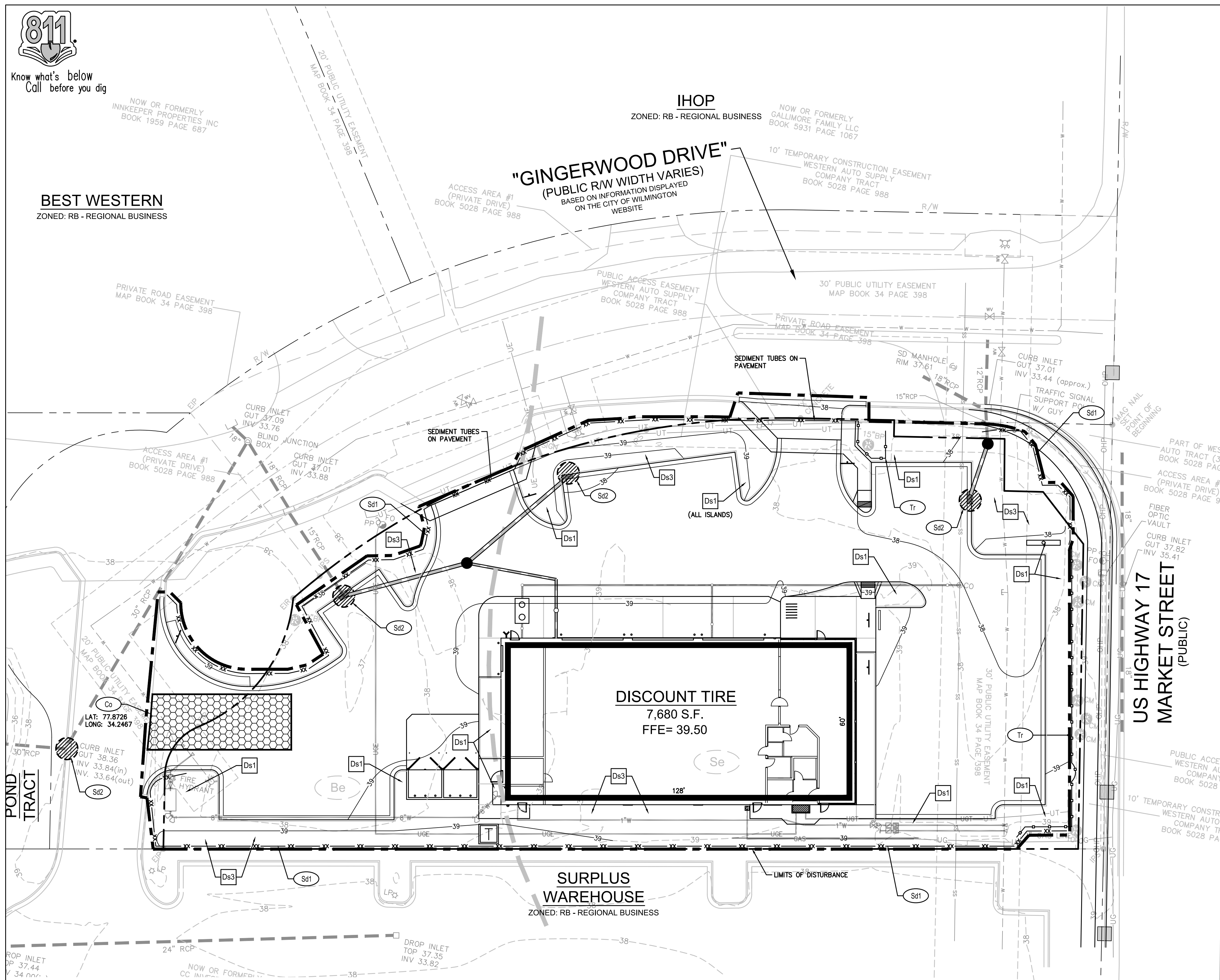
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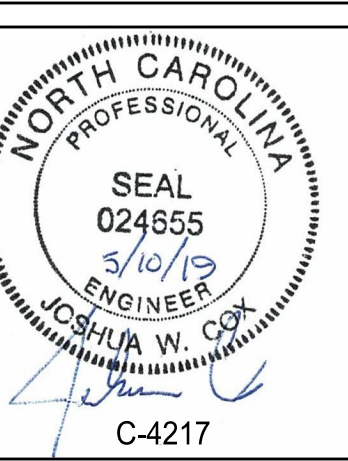
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APPROVED STORMWATER MANAGEMENT PLAN

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Signed: _____

NO.	REVISION	DATE	CONSULTANT:
			DG Donaville Group, INC. 3471 DONAVILLE ST. DULUTH, GA 30096 PHONE: 404-567-5701 FAX: 404-567-5703



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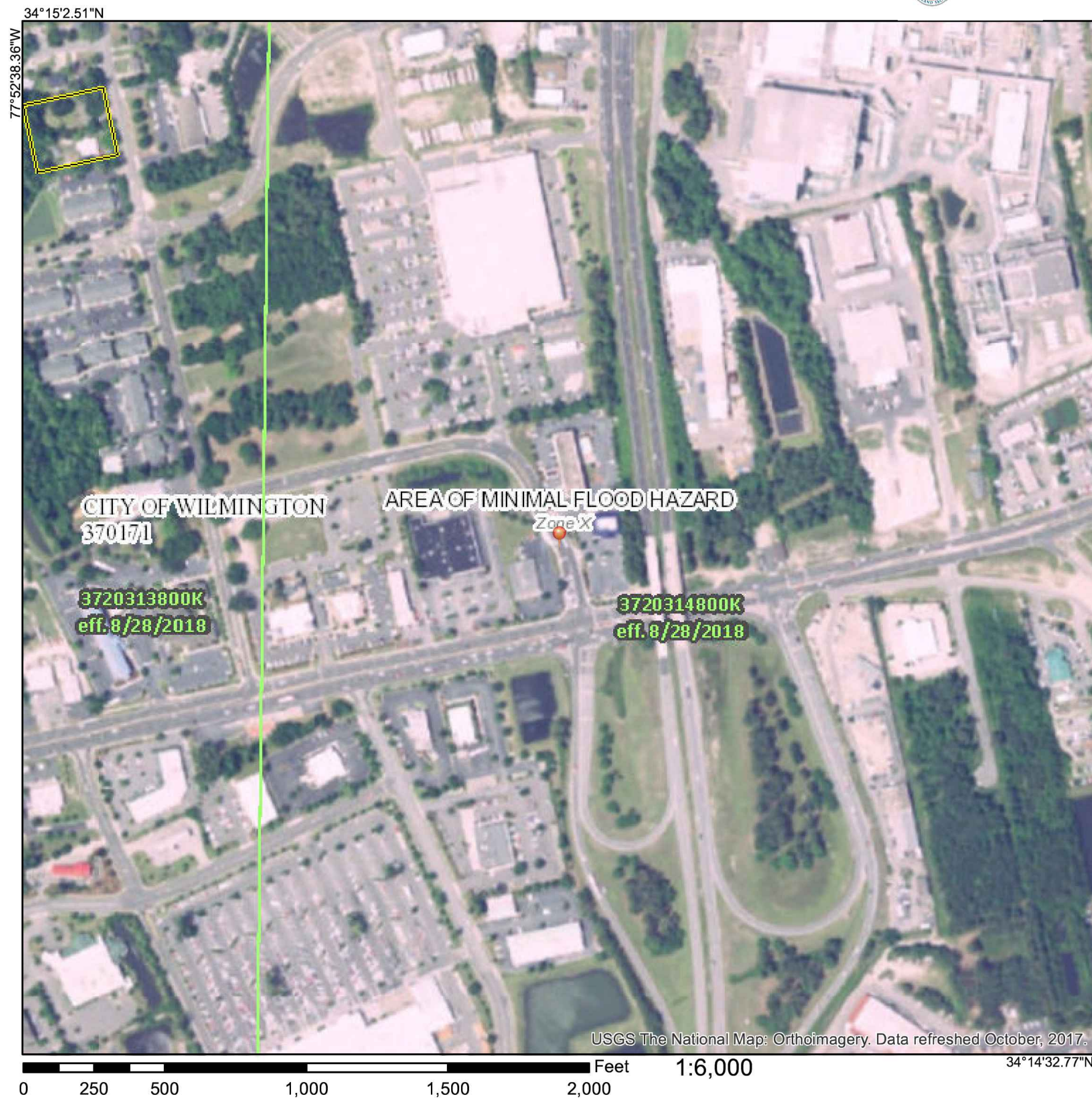
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National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

	Without Base Flood Elevation (BFE) Zone A, V, AE, AH, VE, AR
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee, See Notes, Zone X
	Area with Flood Risk due to Levee Zone D
	Area of Minimal Flood Hazard Zone X
	Effective LOMRs
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transsect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transsect Baseline
	Profile Baseline
	Hydrographic Feature
	Digital Data Available
	No Digital Data Available
	Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/21/2018 at 12:38:46 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and undigitized areas cannot be used for regulatory purposes.

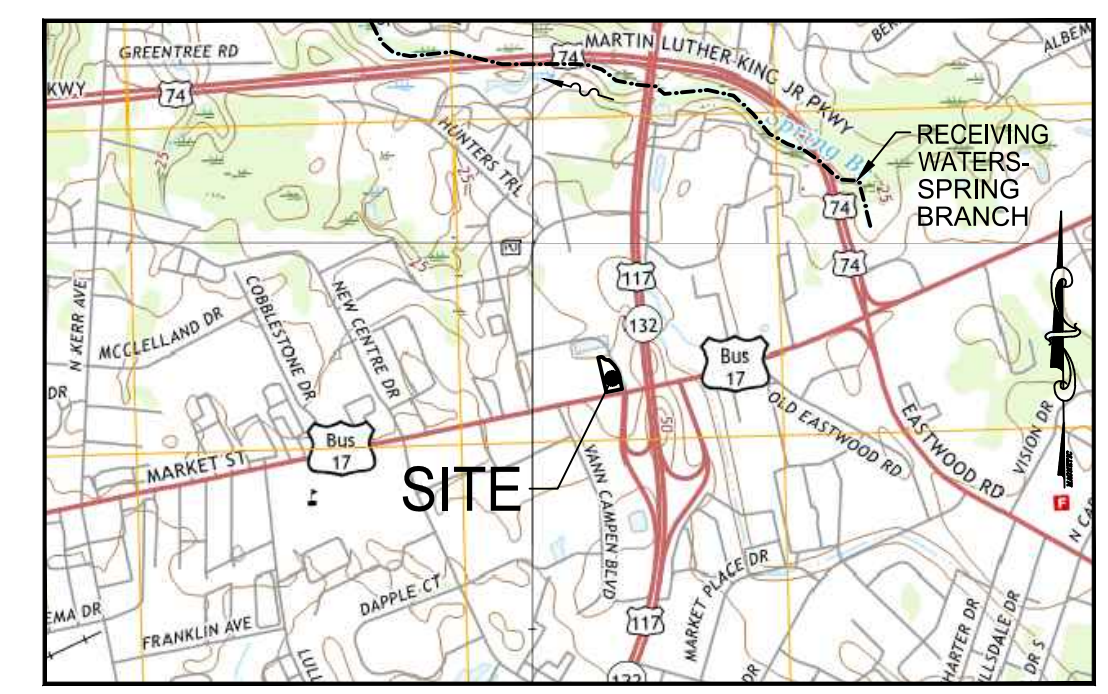
EROSION CONTROL NOTES

- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED BY CONTRACTOR WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS TO ENSURE COMPLIANCE WITH REGULATIONS. ANY MEASURES IMPLEMENTED REQUIRING HYDRAULIC CALCULATIONS ARE TO BE COORDINATED WITH AND CERTIFIED BY THE DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT.
- PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE NCDCE NCG01 CONSTRUCTION GENERAL PERMIT.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE. ALL OTHER DRIVEWAYS WITHOUT A CONSTRUCTION EXIT SHALL BE BARRICADED TO PROHIBIT INGRESS AND EGRESS TRAFFIC.
- THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 1/3 OF THE ORIGINAL HEIGHT OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE SEDIMENTATION PONDS, SILT SHALL BE REMOVED WHEN IT REACHES 50% OF THE STORAGE VOLUME. SEDIMENT STORAGE INDICATORS MUST BE INSTALLED IN EACH POND.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED TO LOCAL AND STATE STANDARDS.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- SILT BARRIERS ARE TO BE PLACED AT DOWNSTREAM TOE OF ALL FILL SLOPES.
- ALL SLOPES AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF AMENDED TOPSOIL APPLIED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL A HEALTHY STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED FOR ALL DISTURBED AREAS.
- ABSOLUTELY NO SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE DURING CONSTRUCTION. IF HEAVY RAINS AND UNUSUAL SITE CONDITIONS RESULT IN THE POLLUTION OF ROADWAYS OR ADJACENT PARCELS THEN THE GRADING CONTRACTOR SHALL CLEAN THE DISTURBED AREAS IMMEDIATELY AND RESTORE THE AREAS TO THE ORIGINAL CONDITION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE GOVERNING OFFICIALS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE INTIMATE WITH THE LOCAL EROSION CONTROL LAWS AND TO REFLECT THIS KNOWLEDGE IN HIS/HER ACTIONS AND QUOTATIONS.
- REFERENCE THE CONSTRUCTION SEQUENCE FOR THE RELATIONSHIP BETWEEN THE INSTALLATION OF EROSION CONTROL FEATURES AND GENERAL CONSTRUCTION.
- MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER AND THE CONTRACTOR.
- ALL GRADED SLOPES STEEPER THAN 3:1 OR OVER 5' IN HEIGHT REGARDLESS OF SLOPE MUST BE HYDRA SEEDED AND COVERED WITH EXCELSIOR CURLEX BLANKETS OR APPROVED EQUAL FIBER MATTING. IF NOT HYDRA SEEDED, APPROVED MATTING THAT HAS BEEN IMPREGNATED WITH SEED AND FERTILIZER MUST BE USED. ALL SLOPES MUST BE PROPERLY PROTECTED UNTIL A PERMANENT VEGETATIVE STAND IS ESTABLISHED.
- ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED AS SOON AS FINAL GRADE IS ACHIEVED. THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- CONTRACTOR MUST HAUL OFF ALL SOLID WASTE TO AN APPROVED LAND FILL. SOLID WASTE BURNING ON SITE IS PROHIBITED.
- ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
- NO WASTE MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 30-FOOT UNDISTURBED BUFFER ZONE OR 20-FOOT MANAGED VEGETATION ZONE WITHOUT FIRST ACQUIRING THE NECESSARY PERMITS.
- ALL STATE WATERS LOCATED ON OR DIRECTLY ADJACENT TO THE SITE ARE DELINEATED ON THE PLANS.
- WASTEWATER FROM THE WASHOUT OF CONCRETE IS A PROHIBITED DISCHARGE FROM THE SITE. WASHOUT MUST BE COLLECTED IN A WASHOUT CONTAINER.

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY	MONTH								
	1	2	3	4	5	6	7	8	9
1. INSTALL SEDIMENT CONTROLS (SILT AND/OR TREE PROTECTION FENCE @ PERIMETER OF SITE)									
2. CLEARING AND GRUBBING									
3. DEMOLITION (DISPOSAL OF EXISTING STRUCTURES)									
4. MASS GRADING									
5. STORM DRAINAGE INSTALLATION									
6. INSTALL SEDIMENT TRAPS @ STRS									
7. SANITARY SEWER INSTALLATION									
8. UTILITY INSTALLATION									
9. BLDG CONST & PAVING									
10. GRASS (TEMP) & (PERM)									
11. FINAL LANDSCAPING									
12. MAINTAIN EROSION CONTROL									
13. CLEAN UP									

NOTE: THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES. _____ REPRESENTS A 30-DAY PERIOD



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

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

NO.	REVISION	DATE	CONSULTANT:

3471 DONAVILLE ST
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

C-4217

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

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5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405

STORE NUMBER:
NCC 39
BDG # 18-111
PROJECT MANAGER:
DON THRAILKILL

PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105

DRAWN BY:
SC

SHEET TITLE:
EROSION CONTROL NOTES

DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
ES-4

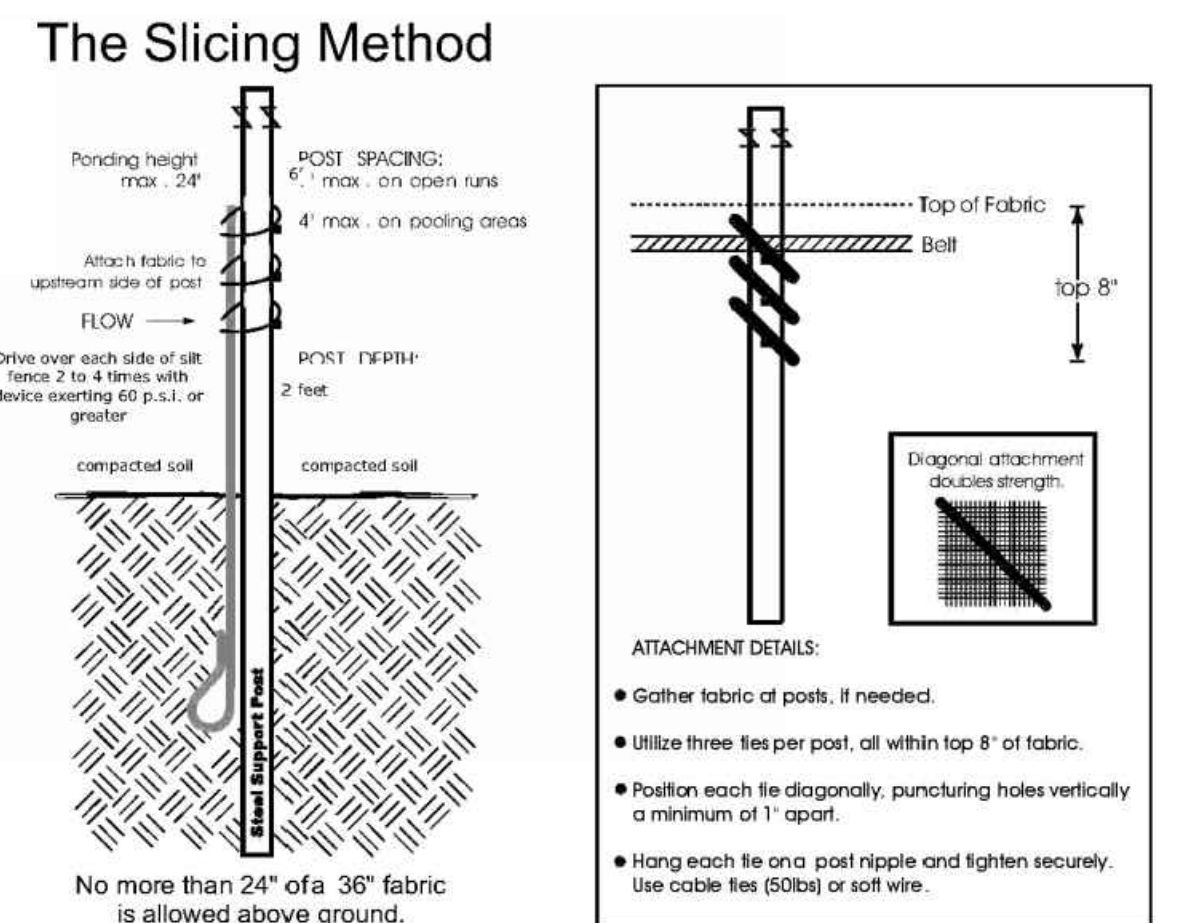
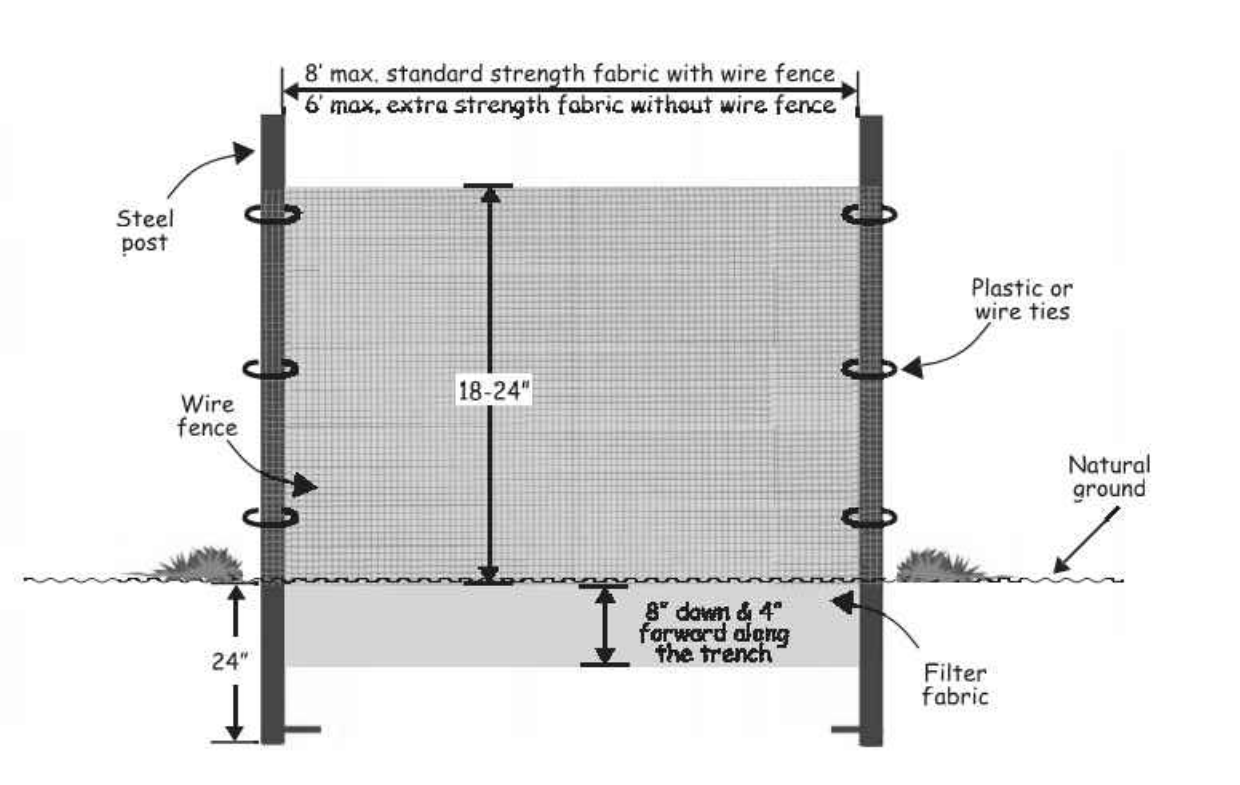
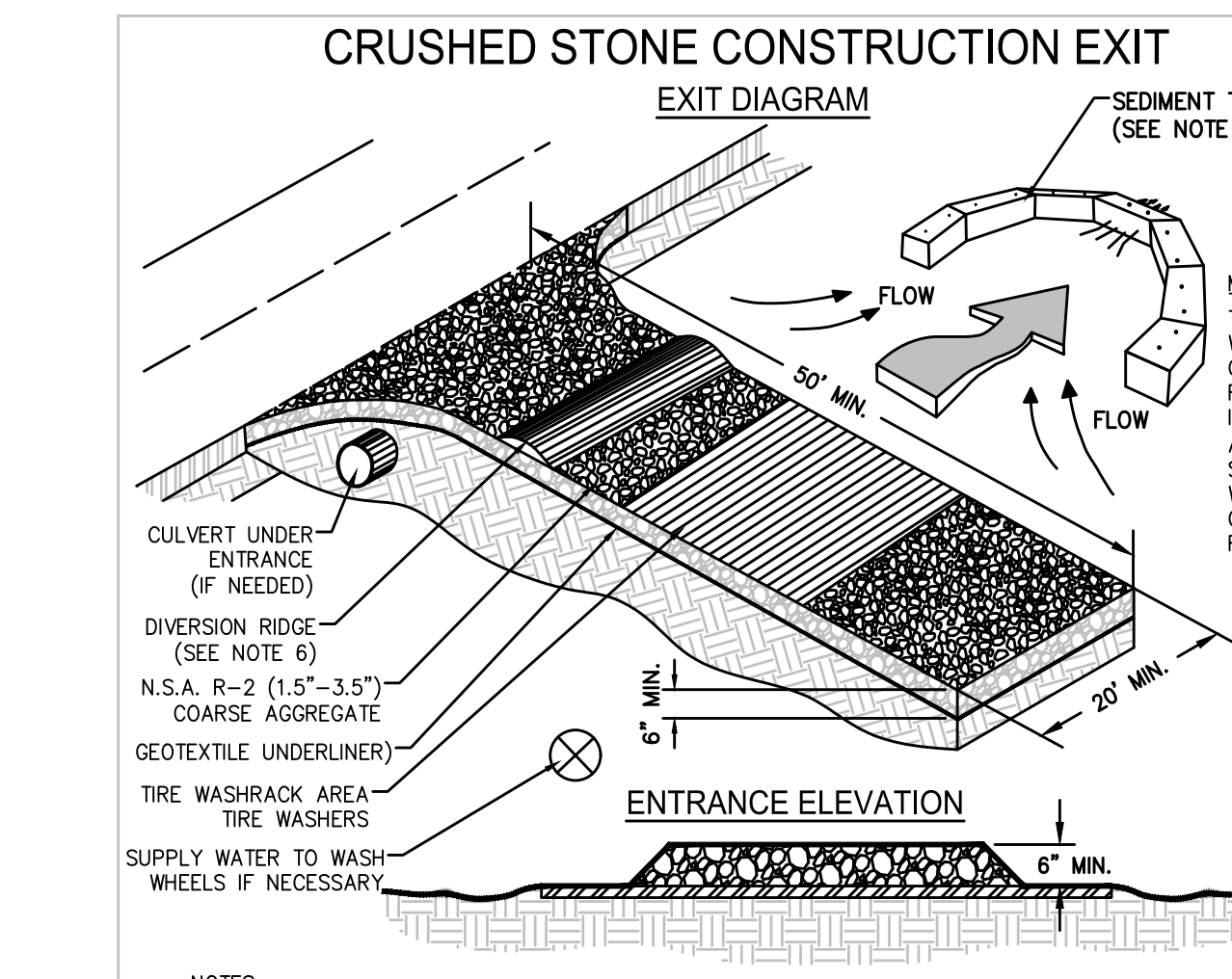
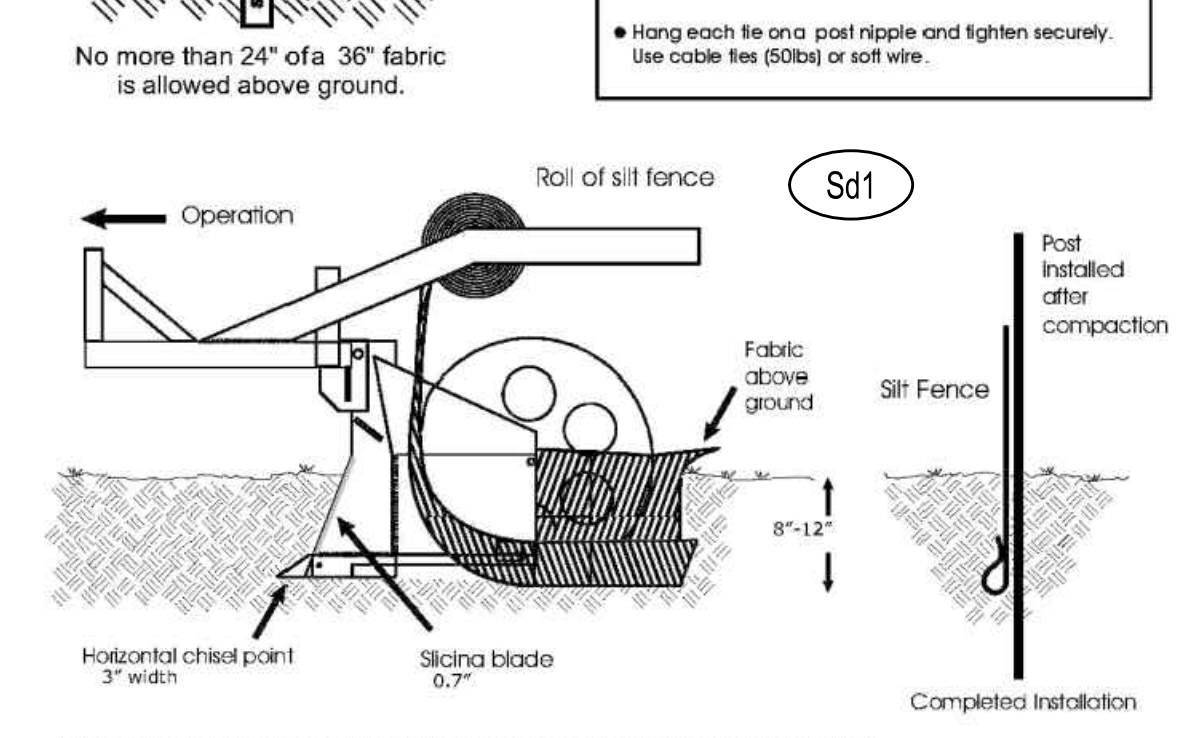
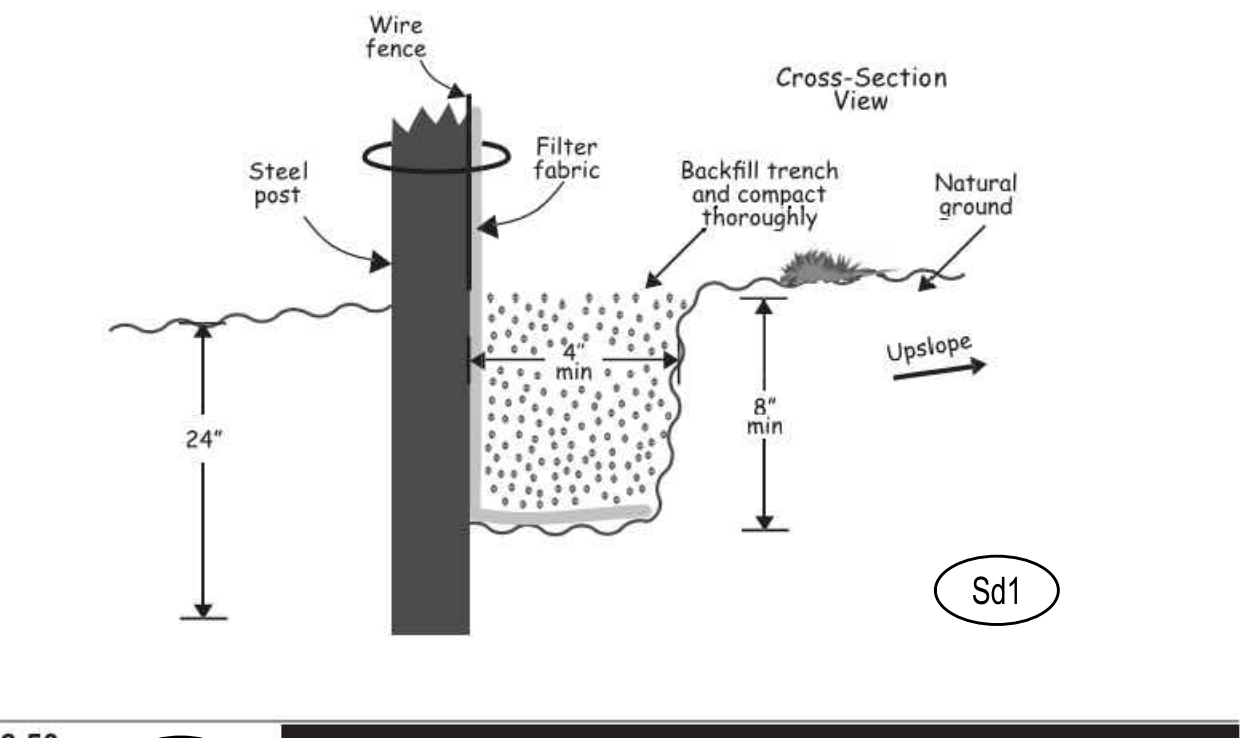
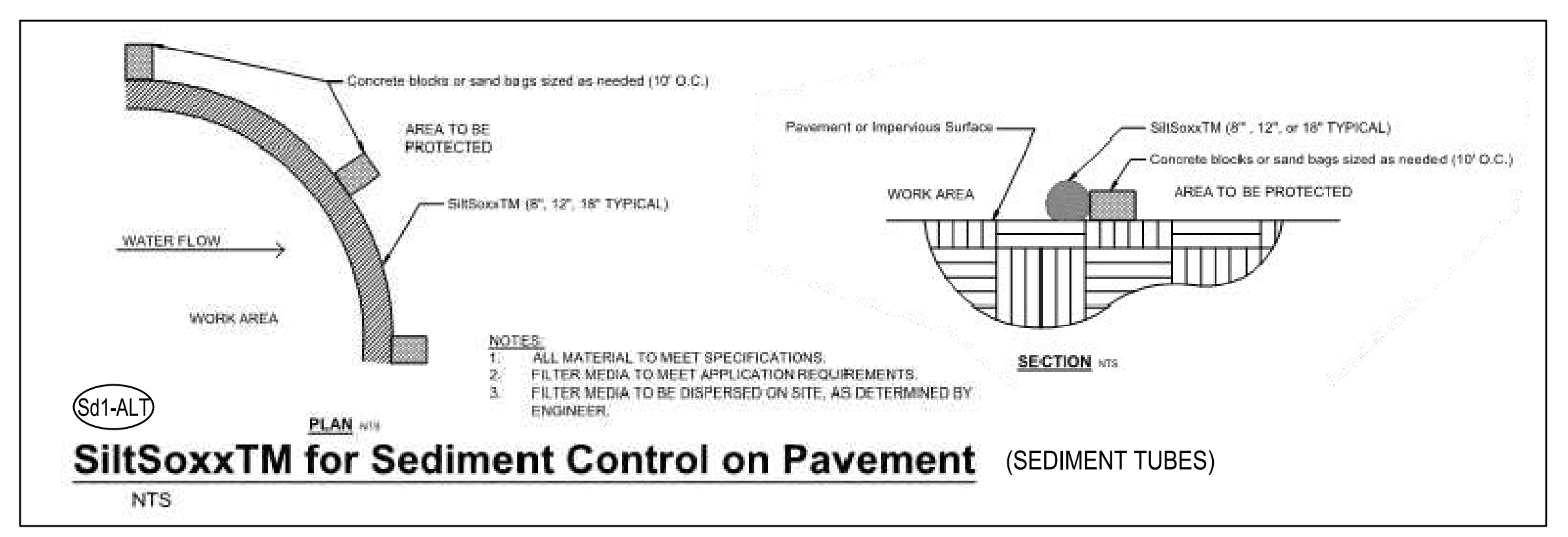


Table 6.62b Specifications For Sediment Fence Fabric

Test Material	Units	Silt Fence		Type of Value
		Supported ¹	Un-Supported ¹	
Grab Strength	ASTM D 4632	N (lbs)		
Machine Direction		400	550	MARV
		(90)	(90)	
X-Machine Direction		400	450	MARV
		(90)	(90)	
Permittivity ²	ASTM D 4491	sec-1	0.05	MARV
Apparent Opening Size ²	ASTM D 4751	mm	0.60	Max. ARV ³
		(US Sieve #)	(30)	
Ultraviolet Stability	ASTM D 4355	% Retained Strength	70% after 500h of exposure	Typical
			70% after 500h of exposure	

¹ Silt Fence support shall consist of 14 gauge steel wire with a mesh spacing of 150 mm (6 inches), or prefabricated polymer mesh of equivalent strength.
² These default values are based on empirical evidence with a variety of sediment. For environmentally sensitive areas, a review of previous experience and/or site or regionally specific geotechnical tests in accordance with Test Method D 5141 should be performed by the agency to confirm suitability of these requirements.
³ As measured in accordance with Test Method D 4632.



6.50 Sd2-E EXCAVATED DROP INLET PROTECTION (Temporary)

Definition An excavated area in the approach to a storm drain drop inlet or curb inlet.
Purpose To trap sediment at the approach to the storm drainage systems. This practice allows use of permanent stormwater conveyance at an early stage of site development.

Conditions Where Practice Applies Where storm drain drop inlets are to be made operational before permanent stabilization of the disturbed drainage area. This method of inlet protection is applicable where relatively heavy flows are expected, and overflow capability is needed (Figure 6.50a). Frequent maintenance is required and temporary flooding in the excavated area will occur. This practice can be used in combination with other temporary inlet protection devices such as Practice 6.51, *Hardware Cloth, and Gravel Inlet Protection* and Practice 6.52, *Block and Gravel Inlet Protection*.

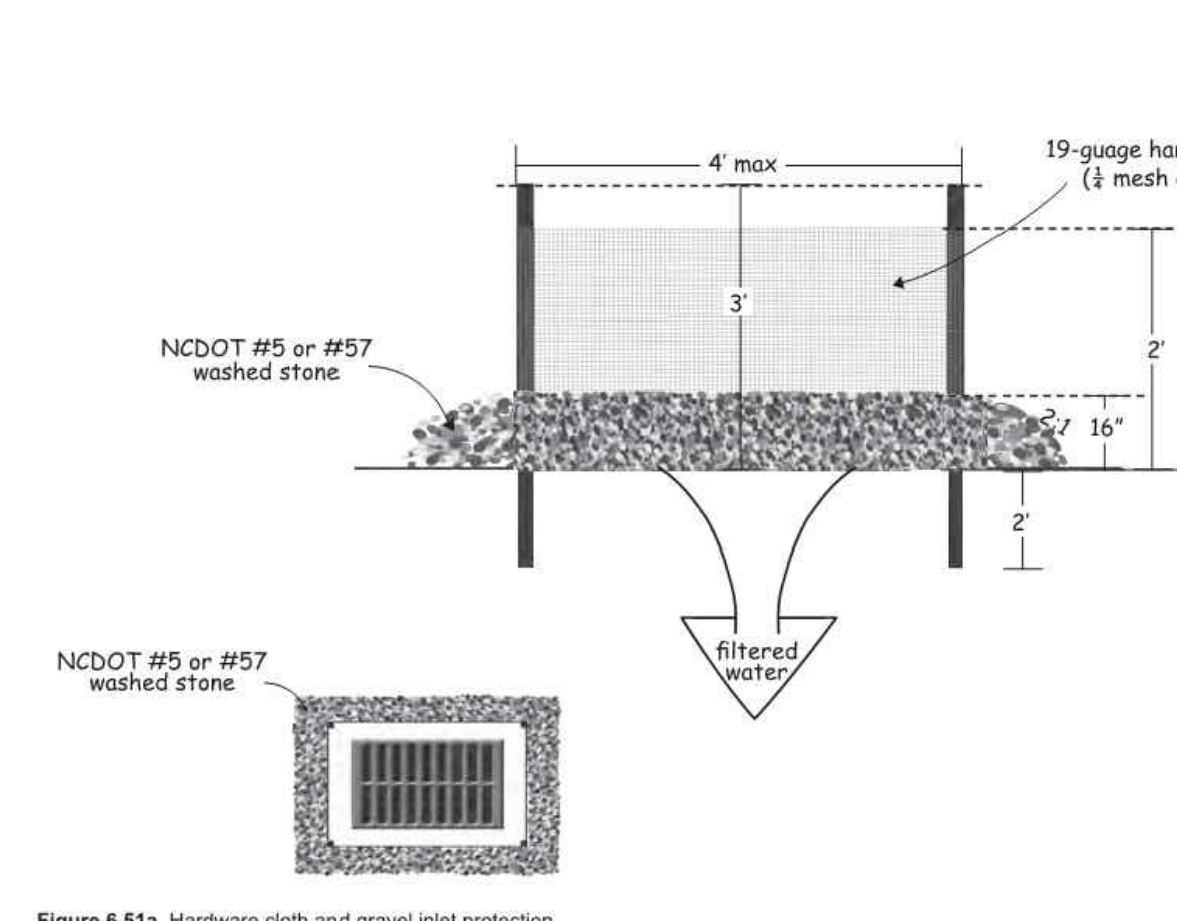
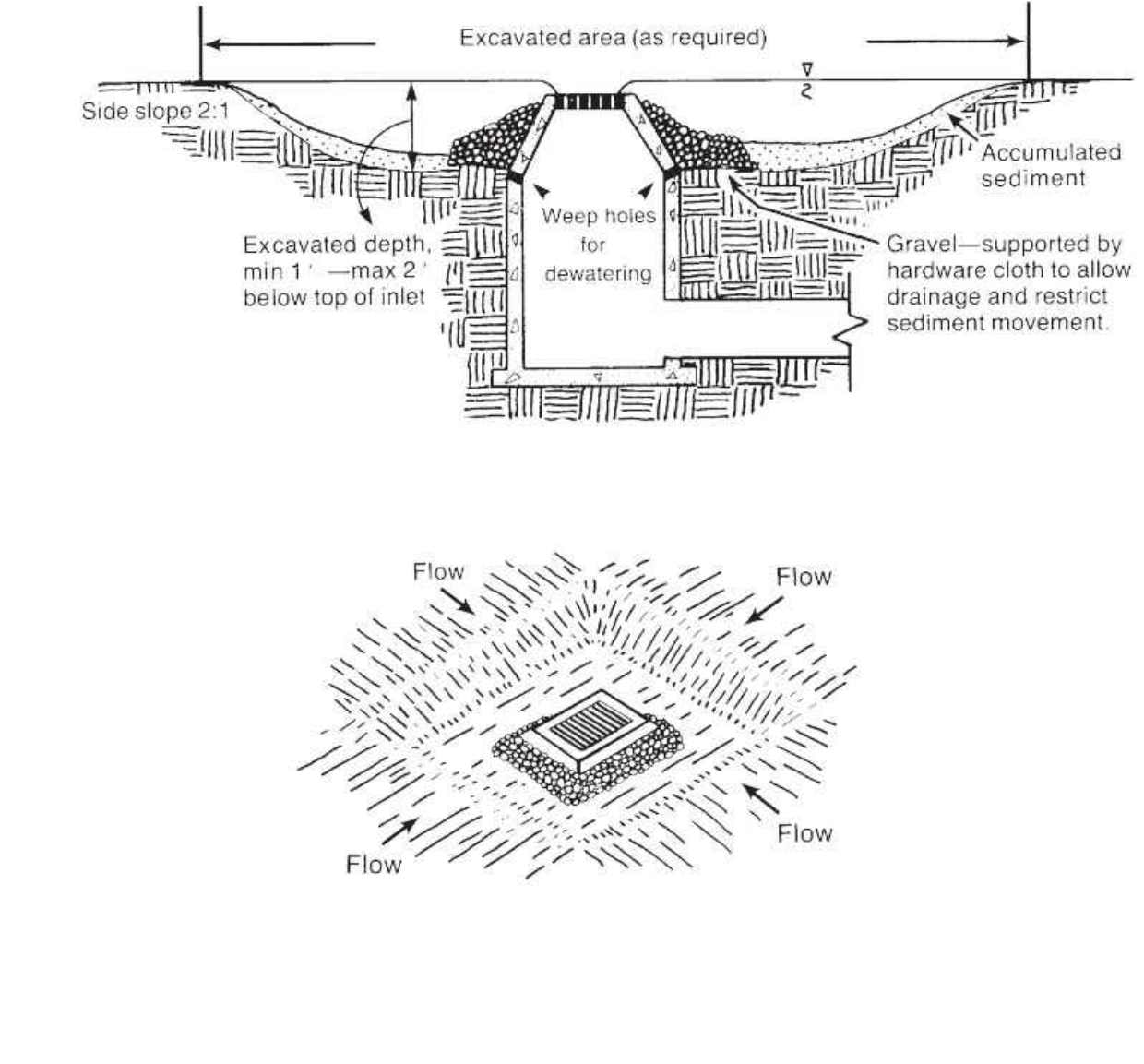
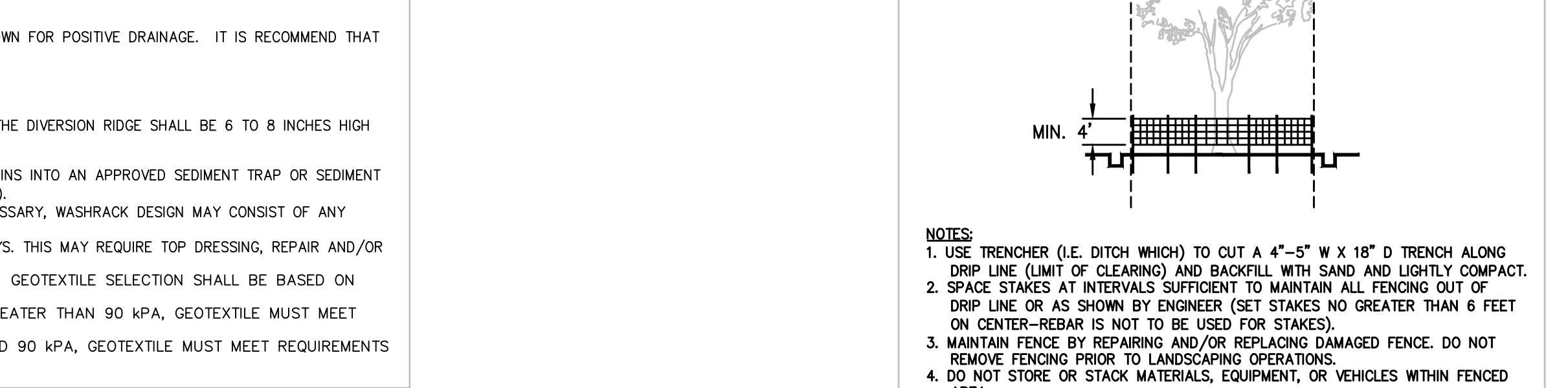
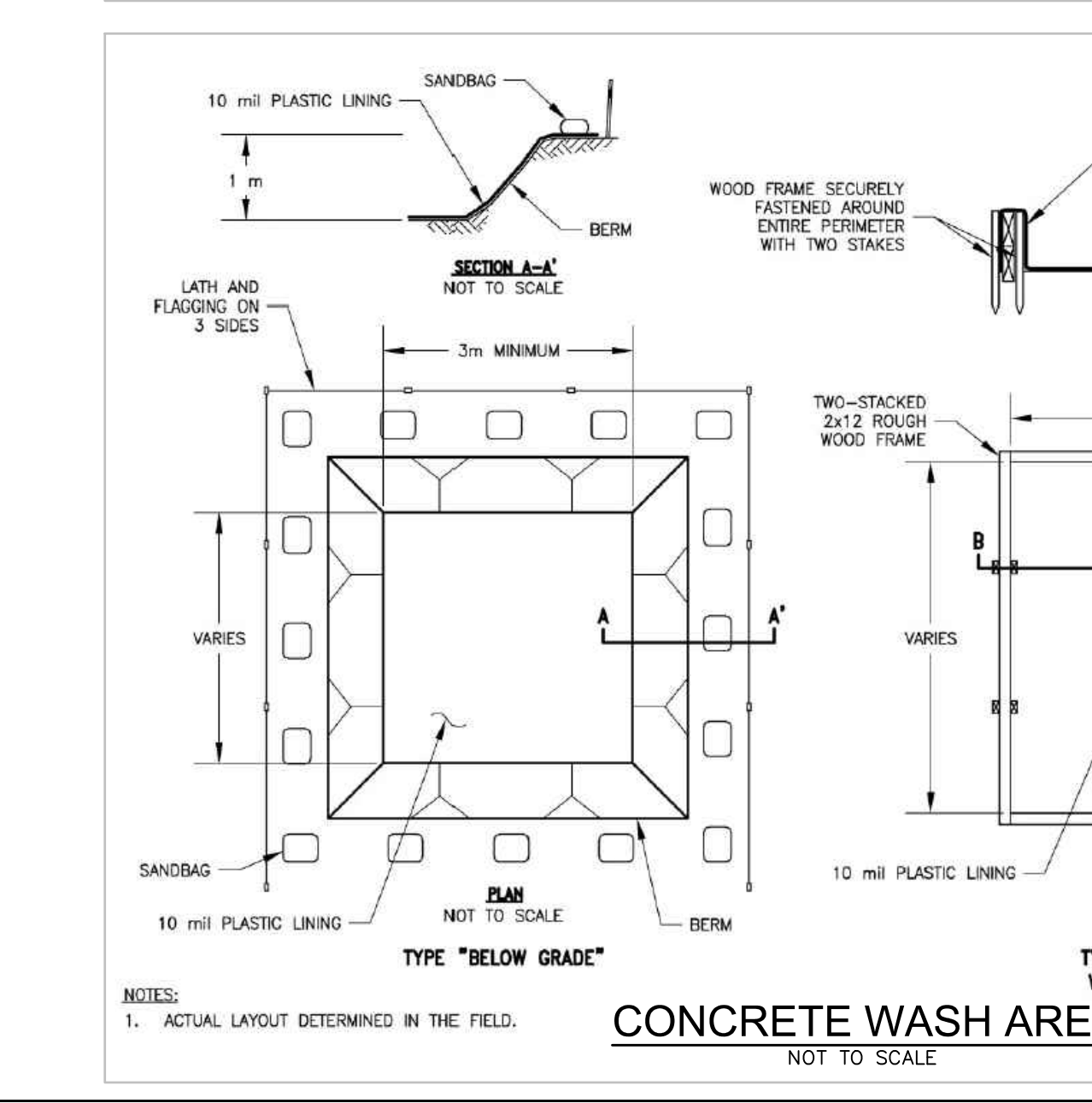


Figure 6.51a Hardware cloth and gravel inlet protection

- Construction Specifications**
- Uniformly grade a shallow depression approaching the inlet.
 - Drive 5-foot steel posts 2 feet into the ground surrounding the inlet. Space posts evenly around the perimeter of the inlet, a maximum of 4 feet apart.
 - Surround the posts with wire mesh hardware cloth. Secure the wire mesh to the steel posts at the top, middle, and bottom. Placing a 2-foot flap of the wire mesh under the gravel for anchoring is recommended.
 - Place clean gravel (NCDOT #5 or #57 stone) on a 2:1 slope with a height of 16 inches around the wire, and smooth to an even grade.
 - Once the contributing drainage area has been stabilized, remove accumulated sediment, and establish final grading elevations.
 - Compact the area properly and stabilize it with groundcover.
- 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. Replace stone as needed.

References
 Inlet Protection
 6.52, Block and Gravel Inlet Protection
 6.54, Rock Doughnut Inlet Protection
 North Carolina Department of Transportation
 Standard Specifications for Roads and Structures

- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE. IT IS RECOMMEND THAT THE ENTRANCE AREA BE EXCAVATED TO A MINIMUM DEPTH OF 3 INCHES.
 - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%. THE DIVERSION RIDGE SHALL BE 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ROAD.
 - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - THE GEOTEXTILE UNDERLIER MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288-98 SPECIFICATION:
 - FOR SUBGRADES WITH A CBR GREATER THAN OR EQUAL TO 3 OR SHEAR STRENGTH GREATER THAN 90 KPA, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-98 SECTION 7.3, SEPARATION REQUIREMENT.
 - FOR SUBGRADES WITH A CBR BETWEEN 1 AND 3 OR SHEAR STRENGTH BETWEEN 30 AND 90 KPA, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-98 SECTION 7.4, STABILIZATION REQUIREMENTS.



- NOTE:**
- INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
 - ADJUST THE NUMBER OF SANDBAGS LAID ON THEIR SIDE TO CONTROL FLOW THROUGH RATE.
- CURB INLET PROTECTION:**
 ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON INLETS RECEIVING RUNOFF FROM DISTURBED AREAS. THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.
 ONE METHOD OF CURB INLET PROTECTION USES "PIGS-IN-A-BLANKET" - 8-INCH CONCRETE BLOCKS WRAPPED IN FILTER FABRIC. ANOTHER METHOD USES SAND OR GRAVEL BAGS CONSTRUCTED BY WRAPPING DOT #57 STONE WITH FILTER FABRIC, WIRE, PLASTIC MESH, OR EQUIVALENT MATERIAL. A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. PROPER INSTALLATION AND MAINTENANCE ARE CRUCIAL DUE TO POSSIBLE PONDING IN THE ROADWAY, RESULTING IN A HAZARDOUS CONDITION.
MAINTENANCE REQUIREMENTS:
 THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
 SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY.
 SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.
 WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

City of Wilmington
 Public Services • Engi
 APPROVED STORMWATER M
 Date: _____ Permit # _____
 Signed: _____

NO.	REVISION	DATE	CONSULTANT:

DEVELOPER:

DISCOUNT TIRE COMPANY
 20225 N. SCOTTSDALE RD.
 SCOTTSDALE, AZ 85255
 PH: 480-606-6000

SEAL 024855
 3/10/19
 ENGINEER
 JOSILIA W. COX
 C-4217

DISCOUNT TIRE

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5335 MARKET STREET
 WILMINGTON,
 NEW HANOVER COUNTY,
 NC 28405

STORE NUMBER:
 NCC 39
 BDG # 18-111
 PROJECT MANAGER:
 DON THRAILKILL

PROJECT CIVIL ENGINEER:
 JOSHUA COX
 PH: (404) 567-5701
 Ext 105

DRAWN BY:
 SC

SHEET TITLE:
 EROSION CONTROL DETAILS

SHEET NUMBER:
ES-5

DATE: MAY 8, 2019
 ISSUED FOR: OUT TO BID

USDC - City of Wilmington, NC (Discount Tire) 18-111 - details.dwg - LAYOUT: ES-5
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Know what's below
Call before you dig

BEST WESTERN
ZONED: RB - REGIONAL BUSINESS

NOW OR FORMERLY
INNKKEEPER PROPERTIES INC
BOOK 1959 PAGE 687

IHOP
ZONED: RB - REGIONAL BUSINESS

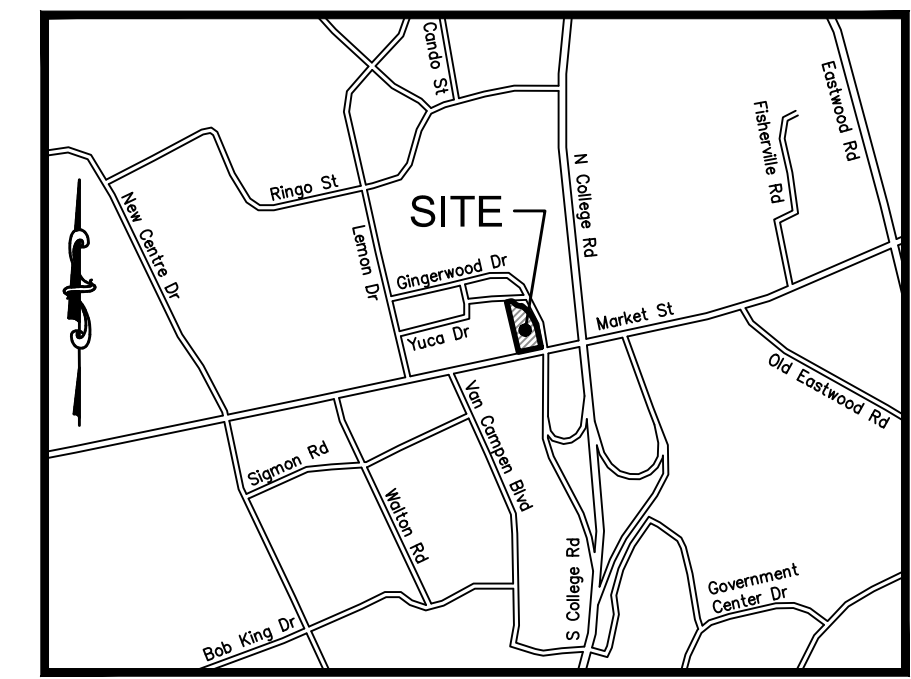
NOW OR FORMERLY
GALLIMORE FAMILY LLC
BOOK 5931 PAGE 107

"GINGERWOOD DRIVE"
(PUBLIC R/W WIDTH VARIES)
BASED ON INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

ACCESS AREA #1
(PRIVATE DRIVE)
BOOK 5028 PAGE 988

10' TEMPORARY CONSTRUCTION EASEMENT
WESTERN AUTO SUPPLY
COMPANY TRACT
BOOK 5028 PAGE 988

SITE DATA TABLE	
PARCEL NUMBER:	R04912-002-026-000
ZONING DISTRICT:	RB - REGIONAL BUSINESS
CAMA LAND USE:	URBAN
SITE AREA (SF):	44,312 (1.02 AC.)
	REQUIRED
BUILDING SETBACK:	
FRONT	25'
SIDE (INT.)	0'
SIDE (STREET)	25'
REAR	15'
	PROPOSED
	87'
	16'
	55'
	124'
NUMBER OF BUILDINGS:	1
BUILDING AREA (SF):	8,000
LOT COVERAGE (40% MAX):	18.1%
BUILDING HEIGHT (35' MAX):	18'
NO. STORIES:	1
1ST FLOOR AREA (SF):	8,000
MEZZANINE AREA (SF):	0
	EXISTING
	PROPOSED
	1 (WITH MEZZANINE)
	7,680
	17.3%
	26'
	1 (WITH MEZZANINE)
	7,680
	2,499.42
IMPERVIOUS BLDG AREA:	8,000
IMPERVIOUS PAVEMENT AREA:	19,850
POROUS PAVEMENT:	0
IMPERVIOUS SIDEWALK AREA:	0
POROUS SIDEWALK:	0
OTHER AREA:	N/A
TOTAL IMPERVIOUS AREA:	27,850 (63%)
	32,000 (72%)
BICYCLE PARKING:	5
ADA PARKING:	2
TOTAL PARKING:	37
	19 SPACES
	38 SPACES
	NOTE: PARKING JUSTIFICATION PREVIOUSLY SUBMITTED AND APPROVED ON 6/11/2018 TO PERMIT 38 PARKING SPACES



LOCATION MAP
NOT TO SCALE

SITE PLAN NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT DOORS, PRECISE BUILDING DIMENSIONS AND EXISTING UTILITY ENTRANCE LOCATIONS.
- ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. SEE SPECIFICATIONS.
- ALL CURBED RADII ARE TO BE 10' UNLESS OTHERWISE NOTED. STRIPED RADII ARE TO BE 5'.
- ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY MICHAEL UNDERWOOD AND ASSOCIATES, PA, DATED 4/18/18.
- TOTAL LAND AREA IS 1.02± ACRES.
- THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED DISCOUNT TIRE SPECIFICATIONS.
- THERE IS NO PROPOSED SITE LIGHTING FOR THIS PROJECT.
- ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.
- THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA (ZONE X) BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 3720314800K, AND THE DATE OF SAID MAP IS 8/28/2018. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.
- THE CURRENT ZONING OF ALL PROPERTY SHOWN FOR DEVELOPMENT IS "RB" REGIONAL BUSINESS. ADJACENT PROPERTY ZONED AS SHOWN. CAMA LAND USE CERTIFICATION: URBAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED FOR WIDENING OF ALL ROADWAYS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS & SHALL BE APPROVED BY SUCH.
- CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS & SPECIFICATIONS FOR ENTRY LOCATION OF ALL WATER, SEWER SERVICE, ELECTRICAL, TELEPHONE & GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS & ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION & TIE-INS/CONNECTIONS TO THEIR FACILITIES.
- ALL DIMENSIONS SHOWN TO BUILDING ARE TO OUTSIDE FACE OF BUILDING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, & REPLACING ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL STRIPING SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.

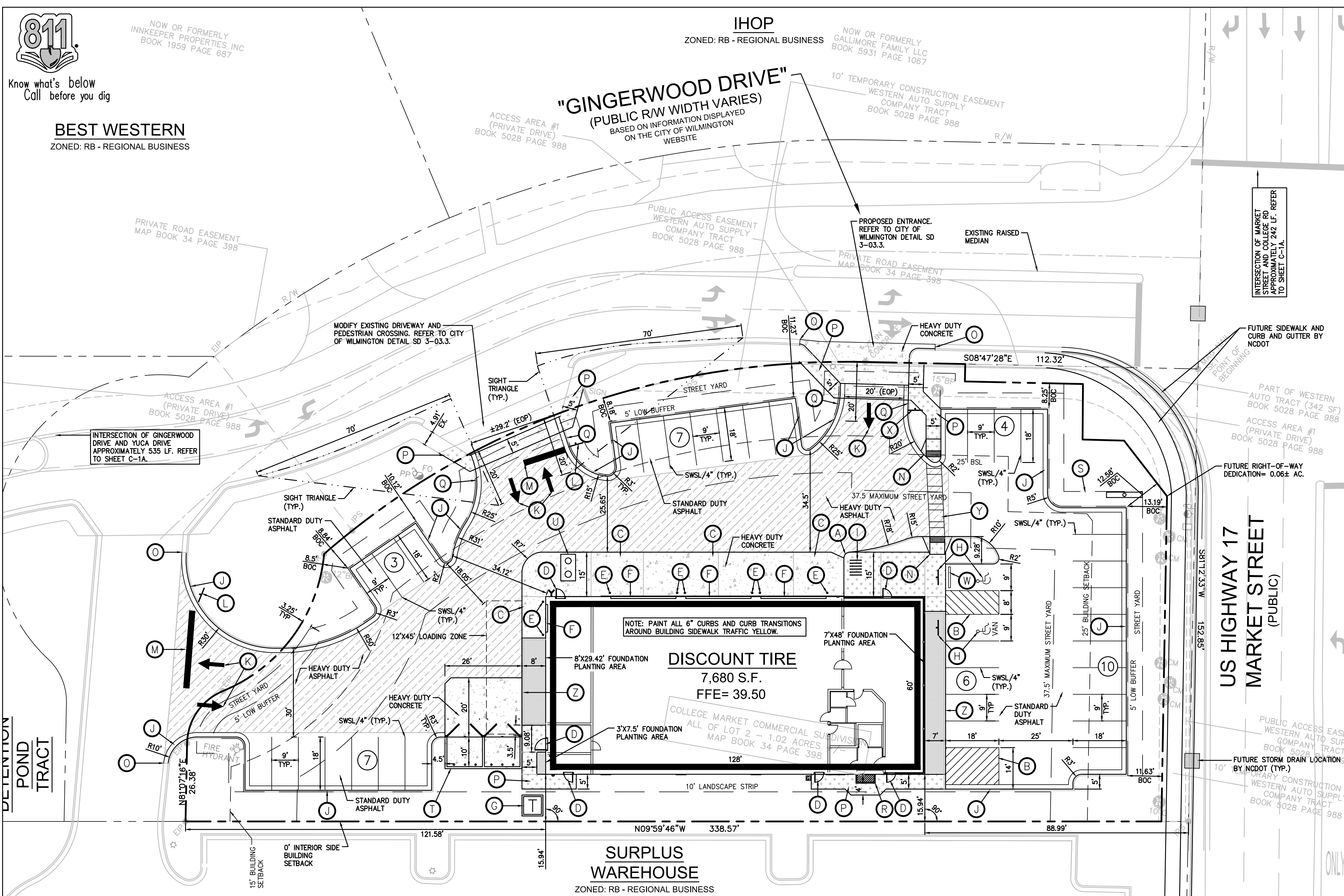
SITE LEGEND

- (A) TRANSITION CURB. REFER TO ARCH PLANS.
- (B) AREA STRIPED AT SYSL/4" AT 45° @ 2'-0" O.C.
- (C) RAMPED PAVEMENT AT 5% MAX TO BE FLUSH WITH FFE AT SERVICE BAYS. REFER TO ARCH PLANS.
- (D) EXIT DOOR. SEE ARCHITECTURAL PLANS FOR EXACT SIZE, LOCATION FOR STOOPS, STAIRS AND/OR RAMPS THAT MAY BE REQUIRED. RAMP PAVEMENT FLUSH WITH THE TOP OF STOOP.
- (E) 6" PIPE BOLLARD TYPICAL UNLESS NOTED OTHERWISE. SEE DETAIL SHEET.
- (F) AT GRADE OVERHEAD DOOR LOCATION. SEE ARCHITECTURAL PLANS FOR EXACT SIZE AND LOCATION FOR COORDINATION WITH CIVIL PLANS.
- (G) CONCRETE TRANSFORMER PAD. CONTRACTOR TO COORDINATE WITH LOCAL POWER COMPANY FOR DETAILS.
- (H) ACCESSIBLE PARKING SPACE TYPICAL. SEE DETAIL SHEET FOR ACCESSIBLE PARKING SPACE SIZE, SIGN AND SYMBOL. ("VAN" INDICATES VAN ACCESSIBLE SPACE).
- (I) BIKE RACK FOR 5 BICYCLES. SEE DETAIL SHEET.
- (J) 24" CONCRETE CURB AND GUTTER TYPICAL. SEE DETAIL SHEET.
- (K) PAINTED DIRECTIONAL ARROWS TYPICAL. SEE PLAN FOR TYPE. SEE DETAIL SHEET.
- (L) "STOP" SIGN. SEE DETAIL SHEET.
- (M) 24" STOP BAR PAINTED WHITE ON PAVEMENT. SEE DETAIL SHEET.
- (N) ADA RAMP. SEE DETAIL SHEET.
- (O) MATCH EXISTING CURB GRADE AND ALIGNMENT.
- (P) PROPOSED SIDEWALK (SEE PLAN FOR WIDTH). SEE DETAIL SHEET.
- (Q) UTILITY CABINET. SEE ARCH/MEP PLANS.
- (R) PROPOSED SIGN BY SIGN VENDOR.
- (S) DUMPSTER ENCLOSURE. SEE DETAIL SHEET.
- (T) SAND/OIL SEPARATOR. SEE PLUMBING PLANS.
- (V) RELOCATED FIRE HYDRANT. SEE DEMOLITION & UTILITY PLAN.
- (W) CONCRETE WHEEL STOP. SEE DETAIL SHEET.
- (X) "DO NOT ENTER" SIGN. SEE DETAIL SHEET.
- (Y) 5'-0" WIDE PEDESTRIAN CROSSWALK. SEE DETAIL SHEET.
- (Z) 6" HEADER CURB. SEE DETAIL SHEET.

LEGEND FOR PROPOSED IMPROVEMENTS

- PROPOSED BUILDING
- PROPOSED CURB AND GUTTER
- PROPOSED CHAINLINK FENCE
- PAINTED TRAFFIC DIRECTION ARROW
- PROPOSED PARKING SPACES
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- FOUNDATION PLANTINGS

SCALE IN FEET
1"=20'



FRONT STREET YARD

STREET YARD FRONTAGE	147.12'
MULTIPLIER=	25
REQUIRED AREA=	147.12'x25'= 3,678 S.F.
REQUIRED AREA (AT DISCRETION OF CITY MANAGER)=	1/2x3,821 S.F.= 1,839 S.F.
PROVIDED STREET YARD	1,841 S.F.

SECONDARY STREET YARD

STREET YARD FRONTAGE	381.50'
DRIVEWAY WIDTH (COMBINED)=	79.2'
MULTIPLIER=	25
REQUIRED AREA=	302.30'x25'x1/2=3,779 S.F.
REQUIRED AREA (AT DISCRETION OF CITY MANAGER)=	1/2x3,702 S.F.= 1,889 S.F.
PROVIDED STREET YARD	1,929 S.F.

CITY OF WILMINGTON NOTES

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 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.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- ANY BROKEN OR MISSING SIDEWALK, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH OFFPIA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3910 FOR INFORMATION.
- IF THE CONTRACTOR DESIRES OFFPIA 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 OFFPIA WATER SHALL COMPLY WITH THE OFFPIA CROSS CONNECTION CONTROL REGULATIONS. CALL 919-343-3910 FOR INFORMATION.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFPCOOR OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0686.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1.800.632.4949 PRIOR TO DOING ANY DIGGING, CLEARING, OR GRADING.

PAINTING STRIPING LEGEND

- SWSL/4" - SINGLE WHITE SOLID LINE / 4" WIDE
- YSYL/4" - SINGLE YELLOW SOLID LINE / 4" WIDE EACH
- DYSL/4" - DOUBLE YELLOW SOLID LINE / 4" WIDE EACH
- YSYL/10" - SINGLE YELLOW SOLID LINE / 10" WIDE
- SWDL/4" - SINGLE WHITE DASHED LINE / 4" WIDE
- SBYL/4" - SINGLE BROKEN YELLOW LINE / 4" WIDE
- SWSL/24" - SINGLE WHITE SOLID LINE / 24" WIDE

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
Signed: _____

NO. REVISION DATE CONSULTANT:

DG
Donoville Group, INC.
3471 DONAVILLE ST.
DURHAM, NC 27606
PHONE: 404-567-5701
FAX: 404-567-5703

SEAL
024655
5/10/19
JOSHUA W. COX
REGISTERED PROFESSIONAL ENGINEER
C-4217

DEVELOPER:

DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

DISCOUNT TIRE

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5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405

STORE NUMBER:
NCC 39
BDC # 18-111
PROJECT MANAGER:
DON THRAKILL

PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105

DRAWN BY:
SC

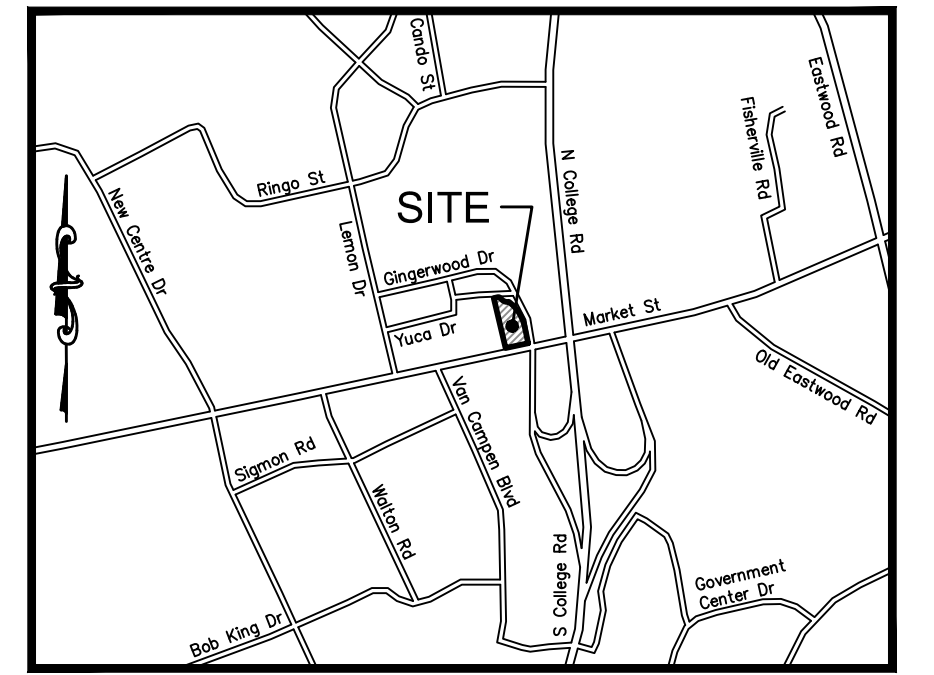
SHEET TITLE:
SITE PLAN

DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
C-1



Know what's below
Call before you dig



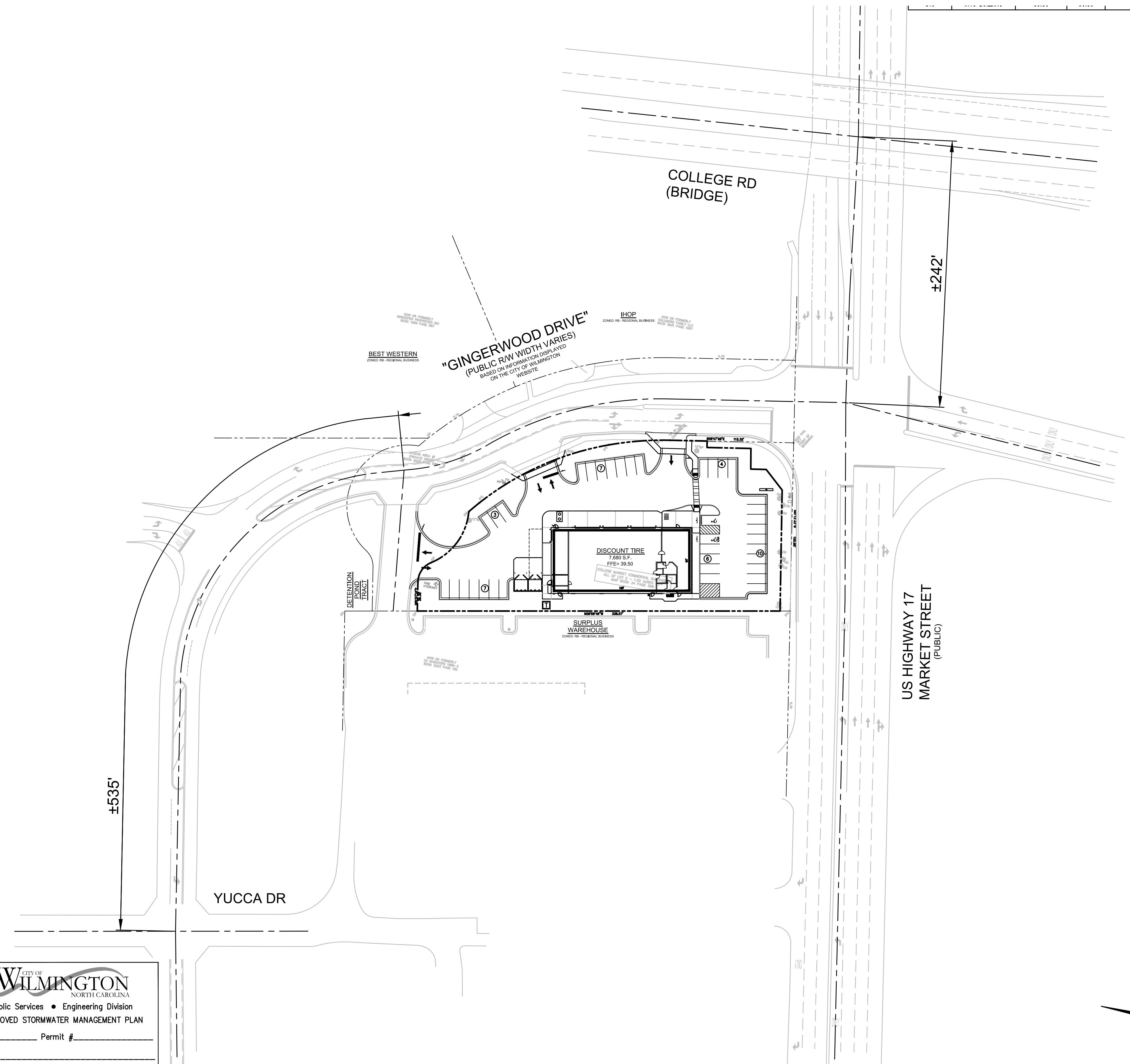
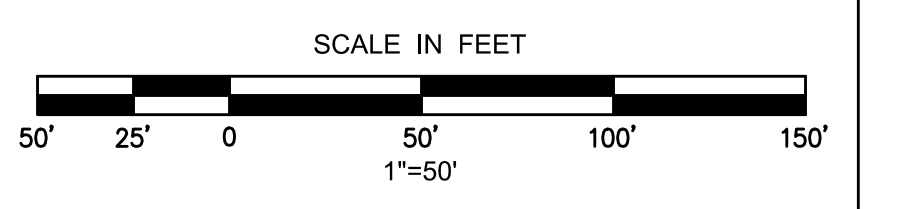
LOCATION MAP
NOT TO SCALE

SITE PLAN NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. SEE SPECIFICATIONS.
- ALL CURBED RADII ARE TO BE 10' UNLESS OTHERWISE NOTED. STRIPED RADII ARE TO BE 5'.
- ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY MICHAEL UNDERWOOD AND ASSOCIATES, PA, DATED 4/18/18.
- TOTAL LAND AREA IS 1.024 ACRES.
- THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED DISCOUNT TIRE SPECIFICATIONS.
- THERE IS NO PROPOSED SITE LIGHTING FOR THIS PROJECT.
- ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.
- THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA (ZONE X) BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 3720314800K, AND THE DATE OF SAID MAP IS 8/28/2018. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.
- THE CURRENT ZONING OF ALL PROPERTY SHOWN FOR DEVELOPMENT IS "RB" REGIONAL BUSINESS. ADJACENT PROPERTY ZONED AS SHOWN. CAMA LAND USE CERTIFICATION: URBAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED FOR WIDENING OF ALL ROADWAYS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS & SHALL BE APPROVED BY SUCH.
- CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS & SPECIFICATIONS FOR ENTRY LOCATION OF ALL WATER, SEWER SERVICE, ELECTRICAL, TELEPHONE & GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS & ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION & TIE-INS/CONNECTIONS TO THEIR FACILITIES.
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- ALL STRIPING SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.

LEGEND FOR PROPOSED IMPROVEMENTS

- PROPOSED BUILDING
- PROPOSED CURB AND GUTTER
- PROPOSED CHAINLINK FENCE
- PAINTED TRAFFIC DIRECTION ARROW
- PROPOSED PARKING SPACES
- STANDARD DUTY ASPHALTIC PAVEMENT
- HEAVY DUTY ASPHALTIC PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- FOUNDATION PLANTINGS



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

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
Signed: _____

NO.	REVISION	DATE

DG
Donaville Group, INC.
3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

NORTH CAROLINA
PROFESSIONAL
SEAL
024655
5/10/19
ENGINEER
JOSHUA W. COX
C-4217

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000



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**5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405**

STORE NUMBER:
NCC 39
BDC # 18-111
PROJECT MANAGER:
DON THRAILKILL
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105
DRAWN BY:
SC

SHEET TITLE:
OVERALL SITE PLAN
DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
C-1A



Know what's below
Call before you dig

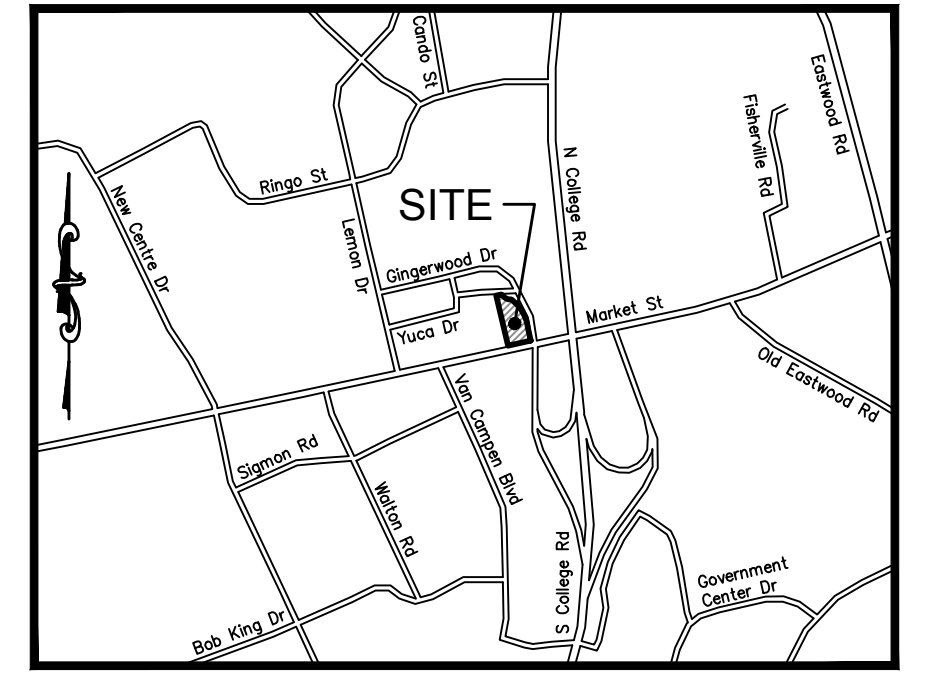
BEST WESTERN
ZONED: RB - REGIONAL BUSINESS

IHOP
ZONED: RB - REGIONAL BUSINESS

"GINGERWOOD DRIVE"
(PUBLIC R/W WIDTH VARIES)
BASED ON INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

GRADING/DRAINAGE PLAN LEGEND

- JUNCTION BOX/STORM MANHOLE
- ▣ DRAINAGE STRUCTURE INDICATOR
- SLOPE ARROW
- CURB INLET (W/ NON-MOUNTABLE HOOD & GRATE)
- TC = TOP OF CURB
- TP = TOP OF PAVEMENT
- TREE PROTECTION FENCE

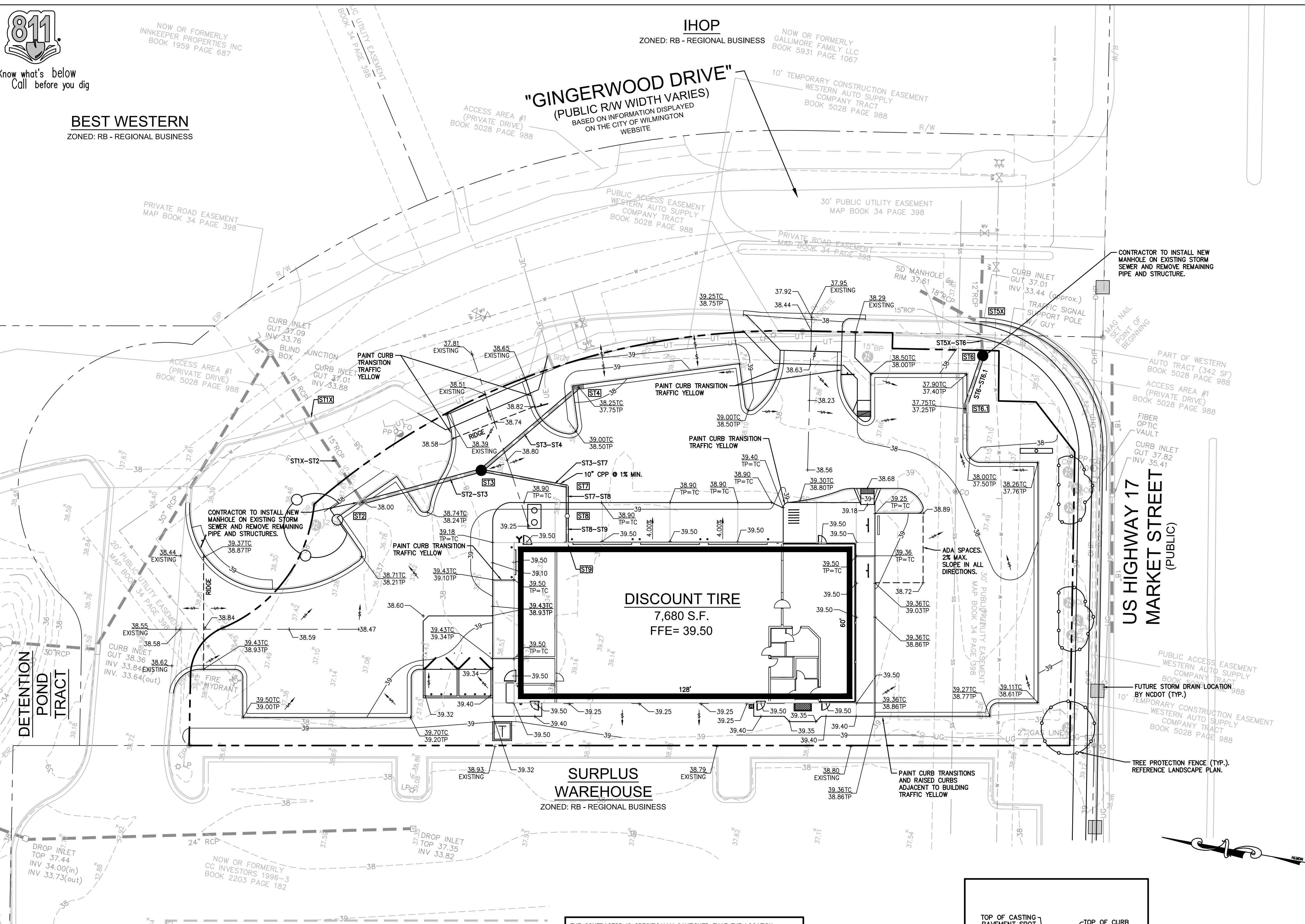
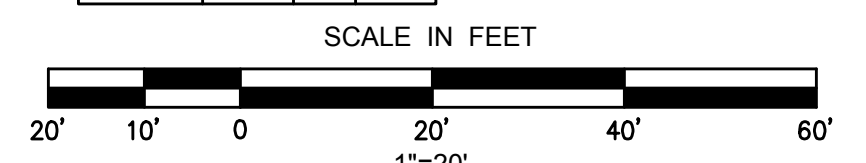


SITE GRADING NOTES

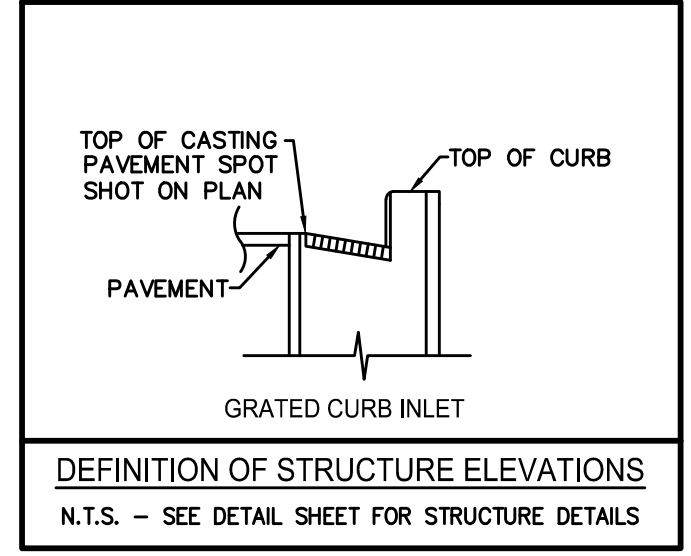
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- STORM PIPE TYPE AND JOINTS SHALL BE AS FOLLOWS AT THE OPTION OF THE CONTRACTOR, ANY PIPE IN RIGHT-OF-WAY SHALL BE RCP:
 - A. CONCRETE PIPE (RCP): ASTM C 76
 - a. FOR FILLS LESS THAN 15 FEET OVER TOP OF PIPE: CLASS III OR GREATER SHALL BE USED
 - b. FOR FILLS 15 FEET TO 20 FEET OVER PIPE: CLASS IV OR GREATER SHALL BE USED
 - c. FOR FILLS GREATER THAN 20 FEET OVER PIPE: CLASS V OR GREATER SHALL BE USED.
 - B. JOINT MATERIAL:
 - a. RUBBER O-RING GASKET: AASHTO M 198, TYPE B OR ASTM C 443
 - b. BITUMEN OR BUTYL-RUBBER SEALANT: ASTM C993
 - c. CORRUGATED COUPLING BANDS:
 - 1) H-O BY HANCOR, INC.
 - 2) ADS N-12 BY ADVANCED DRAINAGE SYSTEMS, INC.
 - d. PE WRAP.
 - C. SPIRAL RIB METAL PIPE: ASTM A760 TYPE 1R OR TYPE 1R. COATINGS SHALL MEET REQUIREMENTS OF ASTM A 929 AND SHALL BE GALVANIZED, ALUMINIZED, OR BITUMINOUS COATED.
 - a. ACCEPTABLE MANUFACTURERS: PROVIDE THE FOLLOWING OR APPROVED EQUAL:
 - 1) ULTRA FLO OR ULTRA FLO II BY CONTECH, INC.
 - 2) MAX FLOW BY SOUTHEAST CULVERT, INC.
 - 3) MAX FLOW BY ST. REGIS CULVERT, INC.
 - 4) MAX FLOW BY THOMPSON CULVERT, INC.
 - b. JOINT MATERIAL:
 - 1) SEMI-CORRUGATED "HUGGER" TYPE BANDS AND "O" RING GASKETS.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- EXISTING GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
- PROPOSED GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM PIPE ENTRIES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY MICHAEL UNDERWOOD AND ASSOCIATES, PA. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES AS INDICATED ON THE EROSION CONTROL PLANS. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH CITY/COUNTY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE COVERING CODES AND BE CONSTRUCTED TO SAME.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT-IN TO INVERT-OUT.
- CONTRACTOR TO CONTACT THE CITY/COUNTY FIRE DEPARTMENT FOR BLASTING REQUIREMENTS.
- WHERE ASPHALT OVERLAY IS SPECIFIED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE LEVELING, WHERE NECESSARY, TO ACHIEVE THE PROPOSED GRADES SPECIFIED ON THE GRADING PLAN. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.
- CONTRACTOR SHALL VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, & ALL UTILITIES PRIOR TO CONSTRUCTION.
- CLEARING & GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS, & REPLACING ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS & SLABS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS UNLESS SPECIFIED OTHERWISE ON THE STRUCTURAL DRAWINGS.

STRUCTURE TABLE			
STRUCTURE #	STRUCTURE TYPE	TOP OF CASTING	INVERT OUT
ST1X	EXISTING CURB INLET	37.01	33.88 (ST2)
ST2	CURB INLET	38.00	34.59 (ST3)
ST3	JUNCTION BOX	38.76	35.15 (ST4) 35.57 (ST7)
ST4	CURB INLET	37.75	35.63
ST5X	EXISTING CURB INLET	37.01	33.44 (ST6)
ST6	JUNCTION BOX	37.76	33.80 (ST6.1)
ST6.1	CURB INLET	37.25	34.02
ST7	BEND	36.22	36.22 (ST8)
ST8	CLEANOUT	39.10	36.40 (ST9)
ST9	INTO BUILDING	36.50	

PIPE TABLE			
PIPE NAME	LENGTH	SIZE	SLOPE
ST1X-ST2	37	15	1.94%
ST2-ST3	46	15	1.00%
ST3-ST4	48	15	1.00%
ST3-ST7	33	10	2.00%
ST5X-ST6	13	15	2.70%
ST6-ST6.1	21	15	1.04%
ST7-ST8	11	10	1.62%
ST8-ST9	10	10	1.00%



THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ALL EXISTING UTILITIES (ABOVE OR BELOW GROUND) AS SHOWN ON THESE PLANS ARE APPROXIMATE AND WERE LOCATED BASED ON EITHER VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR FROM UTILITY OWNERS. DONAVILLE GROUP, LLC INC. DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS SHOWN ARE EXACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE OR BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANIES AND THE UTILITIES PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

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

NO.	REVISION	DATE	CONSULTANT:

DG
Donaville Group, INC.
3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 024555
3/10/19
JOSHUA W. COX
C-4217

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000



DISCLAIMER:
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5335 MARKET STREET WILMINGTON, NC 28405

STORE NUMBER:
NCC 39
BDG # 18-111
PROJECT MANAGER:
DON THRAILKILL
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105
DRAWN BY:
SC

SHEET TITLE:
GRADING PLAN
DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
C-2

USGS MWL - May 22, 2019 - 12:13pm
P:\Project Drawings\Site Information\2018\18-111 Wilmington, NC (Donaville Group)\18-111.mxd - L:\NCC - C-2



Know what's below
Call before you dig

BEST WESTERN
ZONED: RB - REGIONAL BUSINESS

IHOP
ZONED: RB - REGIONAL BUSINESS

NOW OR FORMERLY
GALLIMORE FAMILY LLC
BOOK 5931 PAGE 1067

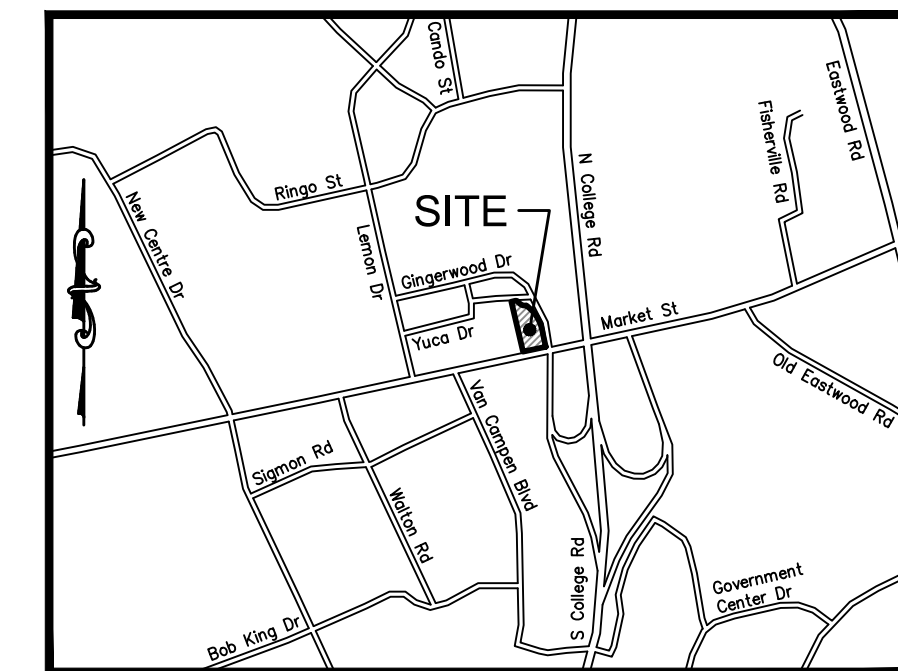
"GINGERWOOD DRIVE"
(PUBLIC R/W WIDTH VARIES)
BASED ON INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

FIRE AND LIFE SAFETY NOTES

- CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIME DURING CONSTRUCTION.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
- A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
- FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPED THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION (910-343-0696).
- CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 910 OF THE 2018 NC FIRE CODE.
- ALL ISOLATION VALVES WITHIN THE "HOT BOX" MUST BE ELECTRICALLY SUPERVISED.

UTILITY LEGEND

- (A) 6" SANITARY SEWER LATERAL AT MINIMUM 1.0% SLOPE, 4" LATERALS AT MINIMUM 2.0% SLOPE. COORDINATE WITH ARCHITECTURAL PLANS.
- (B) GAS ENTRY WITH GAS METER AT BUILDING. CONTRACTOR RESPONSIBLE FOR INSTALLING PIPE BOLLARD PROTECTION AT METER. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR TYING OF INDIVIDUAL METER.
- (C) CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING THE SIZE AND INSTALLATION OF GAS SERVICE LINE FROM POINT OF CONNECTION TO GAS METER. CONTRACTOR IS RESPONSIBLE FOR METER TO BUILDING.
- (D) UNDERGROUND ELECTRIC SERVICE FROM POLE TO BUILDING. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BEDDING, CONDUIT, CABLES, PULL WIRES, SECONDARY CONDUCTORS, TRACE TAPE, BACKFILL, ETC., WHICH MAY BE REQUIRED BY ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH POWER COMPANIES. THE CONTRACTOR IN CONJUNCTION WITH THE UTILITY COMPANIES SHALL DETERMINE THE AMOUNT OF UTILITY LINE HE IS TO PROVIDE OUTSIDE THE UTILITY COMPANIES' ALLOWANCE.
- (E) PROPOSED LOCATION OF TRANSFORMER PAD. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY.
- (F) UNDERGROUND TELEPHONE FROM POLE TO BUILDING TO BE EXTENDED BY TELEPHONE COMPANY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCHING, BEDDING, CONDUIT, PULL WIRES, TRACE TAPE, BACKFILL, ETC., WHICH MAY BE REQUIRED BY TELEPHONE COMPANY. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR SAID WORK. PROVIDE CONDUITS AS SHOWN.
- (G) CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE UTILITY COMPANIES FOR THE INSTALLATION OF OVERHEAD/UNDERGROUND ELECTRIC AND TELEPHONE LINES TYPICAL. CONTRACTOR SHALL COORDINATE THE TYING OF INDIVIDUAL METER WITH THE ELECTRIC COMPANY. SEE NOTE D, E, & F FOR ADDITIONAL NOTES PERTAINING TO ELECTRIC AND TELEPHONE LINES.
- (H) DOMESTIC WATERLINE ENTRY WITH METER PER LOCAL WATER COMPANY REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE. SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC., WHICH MAY BE REQUIRED TO COORDINATE WITH WATER COMPANY.
- (I) SPRINKLER ENTRY. CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A CHECK VALVE, GATE VALVES, ETC., MEETING WATER COMPANY SPECIFICATIONS.



LOCATION MAP
NOT TO SCALE

WATER: 800 GPD (CURRENT USE)
 WATER: 768 GPD (PROPOSED USE)
 SEWER: 800 GPD (CURRENT USE)
 SEWER: 768 GPD (PROPOSED USE)

NOTE: BASED ON RETAIL; 100 GPD PER 1,000 S.F.

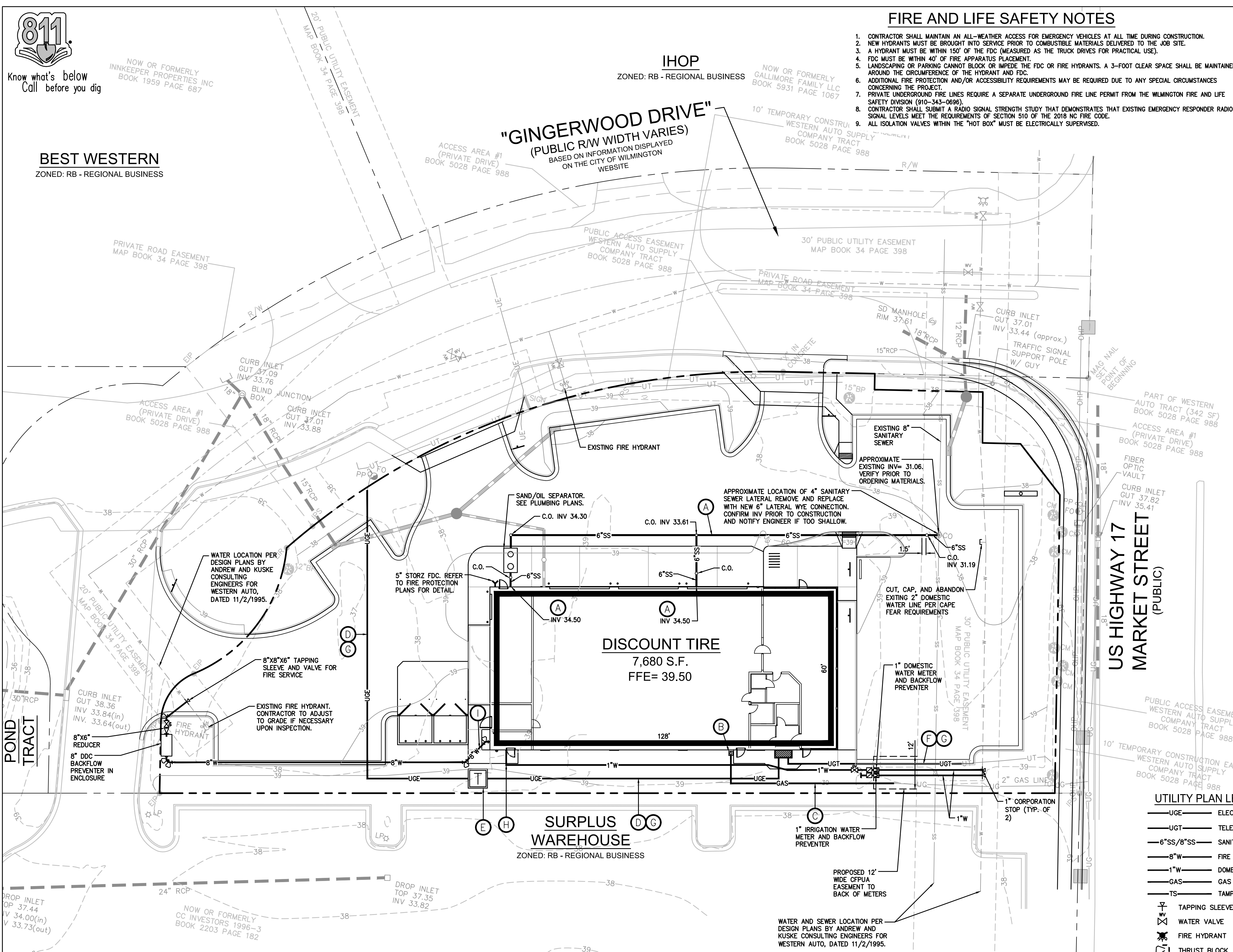
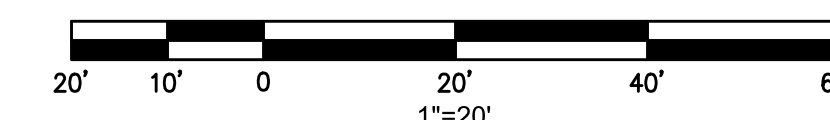
SITE UTILITY NOTES

- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 - 8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP
 - 8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP
 - 6" PVC SDR26 PER ASTM D 3034, INTEGRAL WALL BELL AND SPOOT ON JOINTS.
 - DUCTILE IRON PIPE PER AWWA C150
 - WATER LINES SHALL BE AS FOLLOWS:
 - A. PIPE SIZES LESS THAN 3-INCHES THAT ARE INSTALLED BELOW GRADE AND OUTSIDE BUILDING SHALL COMPLY WITH ONE OR A COMBINATION OF THE FOLLOWING:
 - SEAMLESS COPPER TUBING: TYPE "K" SOFT COPPER, ASTM B 88
 - FITTINGS: BRASS OR COPPER (95-5 TIN ANTIWAVE SOLDER JOINT), ASME B 16.22
 - B. POLYVINYL CHLORIDE (PVC) WATER PIPE: PIPE, ASTM D 2241, WITH SDR 21 RATING, CONTINUALLY MARKED WITH MANUFACTURER'S NAME, PIPE SIZE, CELL CLASSIFICATION, SDR RATING, AND ASTM D 1784 MATERIAL CLASSIFICATION.
 - A. PIPE JOINTS: INTEGRALLY MOLDED BELL ENDS, ASTM D 2672.
 - B. CEMENT PRIMER: ASTM - F856
 - C. SOLVENT CEMENT: ASTM - D 2564
 - C. PIPE SIZES 3-INCHES AND LARGER THAT ARE INSTALLED BELOW GRADE AND OUTSIDE BUILDING SHALL COMPLY WITH ONE OR A COMBINATION OF THE FOLLOWING:
 - DUCTILE IRON WATER PIPE: AWWA C151, THICKNESS CLASS 50.
 - FITTINGS: EITHER MECHANICAL JOINT OR PUSH-ON JOINT, AWWA C110 OR AWWA C111.
 - POLYVINYL CHLORIDE (PVC) WATER PIPE: PIPE, AWWA C900, RATED DR 18 (CLASS 150), CONTINUALLY MARKED AS REQUIRED.
 - B. PIPE JOINTS: INTEGRALLY MOLDED BELL ENDS, ASTM D 3139
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS AND PROVIDED AT ALL HORIZONTAL AND VERTICAL BENDS, TEES, & HYDRANTS. SEE DETAIL SHEET.
- ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" APART (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
- CONTRACTOR SHALL MAINTAIN A MINIMUM 18" CLEARANCE FROM ALL UTILITIES.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE MEETING REQUIREMENTS OF ANS A21.10 OR ANS 21.11 (AWWA C-151) (CLASS 50).
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
- ALL CONCRETE FOR ENCASUREMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR TO PROVIDE TRENCHING, CONDUIT, PULL WIRE AND BACKFILL FOR TELEPHONE AND ELECTRIC LINES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND COORDINATE THE SCOPE OF WORK AND TIMING ASSOCIATED WITH ANY NEW UTILITY CONSTRUCTION OR RELOCATION WITH THE UTILITY COMPANIES.
- ALL CONSTRUCTION TO CONFORM TO APPLICABLE CITY/COUNTY SPECIFICATIONS AND IN ACCORDANCE WITH CITY/COUNTY ORDINANCES.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES & REQUIREMENTS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES & OWNERS INSPECTING AUTHORITIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- TRENCHES OF 20 FEET OR GREATER REQUIRES SHORING, DESIGN TO BE CERTIFIED BY A PROFESSIONAL ENGINEER. TRENCH SAFETY REQUIREMENTS WILL BE STRICTLY ENFORCED. CONTRACTOR TO MEET OR EXCEED ALL OSHA STANDARDS.
- REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING AND ELECTRICAL PLANS.
- CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, EASEMENTS, & CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES & GUY WIRES, WATER METERS & WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, & ASPHALT, SHOWN & NOT SHOWN, WITHIN CONSTRUCTION LIMITS & WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS TO REMAIN DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE TO OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL REFERENCE THE ARCHITECT PLANS FOR PRECISE LOCATION OF ALL BUILDING UTILITY ENTRANCES. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS & ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH LOCAL UTILITY REQUIREMENTS AS TO LOCATIONS & SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
- ALL PRIMARY & SECONDARY SERVICE LOCATIONS ARE APPROXIMATE & ARE SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE POWER COMPANY, TO DETERMINE EXACT LOCATION & RESPONSIBILITIES INCLUDING COST.
- DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE PLANS RELATED TO THE EXISTING UTILITIES (AERIAL AND SUBSURFACE) IS BASED ON FIELD RUN SURVEY, AS-BUILT RECORDS AND/OR UTILITY COMPANY RECORDS AND IS CORRECT TO THE BEST KNOWLEDGE OF THE ENGINEER. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- THE EXISTING SUBSURFACE FACILITIES HAVE NOT BEEN EXPOSED AND VERIFIED AND THEREFORE THE INFORMATION PROVIDED IS NOT TO BE CONSIDERED PRECISE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, MATERIAL AND INVERT ELEVATION AT THE PROPOSED TIE-IN POINT(S) OF THE EXISTING SUBSURFACE UTILITIES PRIOR TO ORDERING MATERIALS TO INSTALL THE PROPOSED UTILITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF CONDITIONS IDENTIFIED IN THE FIELD ARE SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS. THE OWNER WILL NOT ACCEPT ANY CHANGE ORDERS ASSOCIATED WITH UNEXPECTED FIELD CONDITIONS THAT ARE NOT IDENTIFIED PRIOR TO ORDERING MATERIALS FOR PROPOSED CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE THE TIMING OF ALL UTILITY CONNECTIONS AND/OR RELOCATIONS WITH THE RESPECTIVE UTILITY SERVICE PROVIDERS. LINES TO BE RELOCATED SHALL REMAIN OPERATIONAL AT ALL TIMES UP UNTIL THE NEW SERVICE LINE BECOMES ACTIVE. CONNECTIONS BETWEEN EXISTING AND RELOCATED LINES THAT REQUIRE TEMPORARY INTERRUPTION OF SERVICE SHALL BE PERFORMED ONLY AT LOW DEMAND TIMES WHICH MAY REQUIRE WORK TO BE PERFORMED AT NIGHT AND/OR ON WEEKENDS. CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH WORK IN THE BASE BID.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- ALL BENDS FOR POWER, TELEPHONE AND FIBER OPTIC CONDUITS TO UTILIZE SWEEPS A MIN. OF 10 TIMES PIPE DIAMETER.
- ALL SANITARY SEWER LATERAL BENDS/ELBOWS SHALL BE NO GREATER THAN 45 DEGREES. 90 DEGREE BENDS SHOWN FOR SCHEMATIC PURPOSES ONLY.

UTILITY PLAN LEGEND

- UGE— ELECTRICAL CONDUIT
- UGT— TELEPHONE CONDUIT
- 6"SS/8"SS— SANITARY SEWER PIPE
- 8"W— FIRE SERVICE WATER PIPING
- 1"W— DOMESTIC WATER PIPING
- GAS— GAS PIPE
- TS— TAMPER SWITCH CONDUIT
- ⊕ TAPPING SLEEVE & VALVE
- ⊕ WATER VALVE
- ⊕ FIRE HYDRANT
- ⊕ THRUST BLOCK
- ⊕ WATER METER
- ⊕ BACKFLOW PREVENTOR
- ⊕ POST INDICATOR VALVE
- ⊕ SANITARY SEWER MANHOLE
- ⊕ POWER POLE
- ⊕ GAS METER
- ⊕ PULL BOX

SCALE IN FEET



Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

City of **WILMINGTON**
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

NO.	REVISION	DATE

CONSULTANT:

DG
Donaville Group, INC.

3471 DONAVILLE ST.
DULUTH GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

PROFESSIONAL ENGINEER
SEAL 024655
10/13
JOSHUA W. COX
C-4217

DEVELOPER:

DISCOUNT TIRE COMPANY
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PH: 480-606-6000

DISCOUNT TIRE

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5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405

STORE NUMBER:
NCC 39
BDC # 18-111
PROJECT MANAGER:
DON THRAKILL

PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105

DRAWN BY:
SC

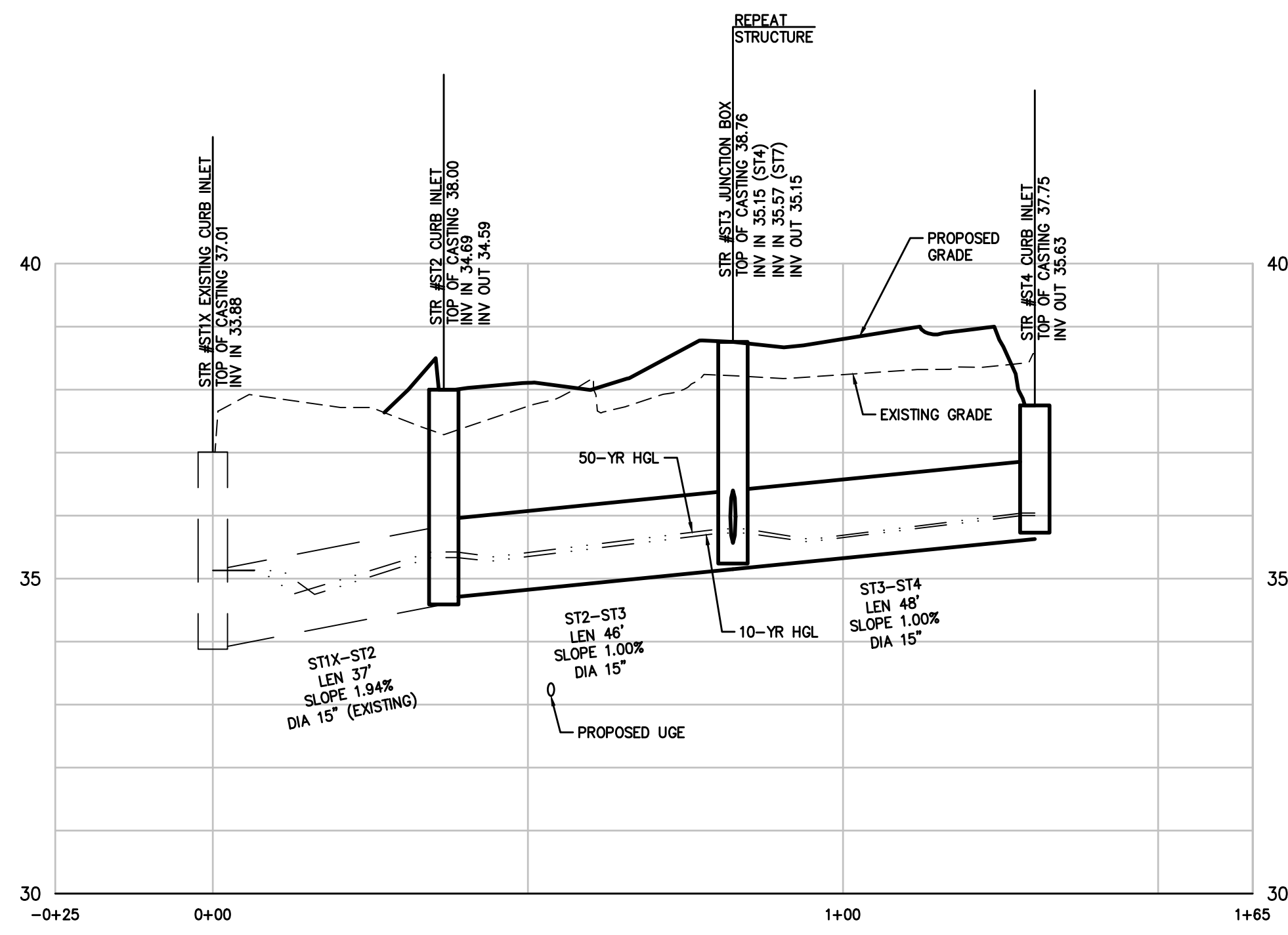
SHEET TITLE:
UTILITY PLAN

DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

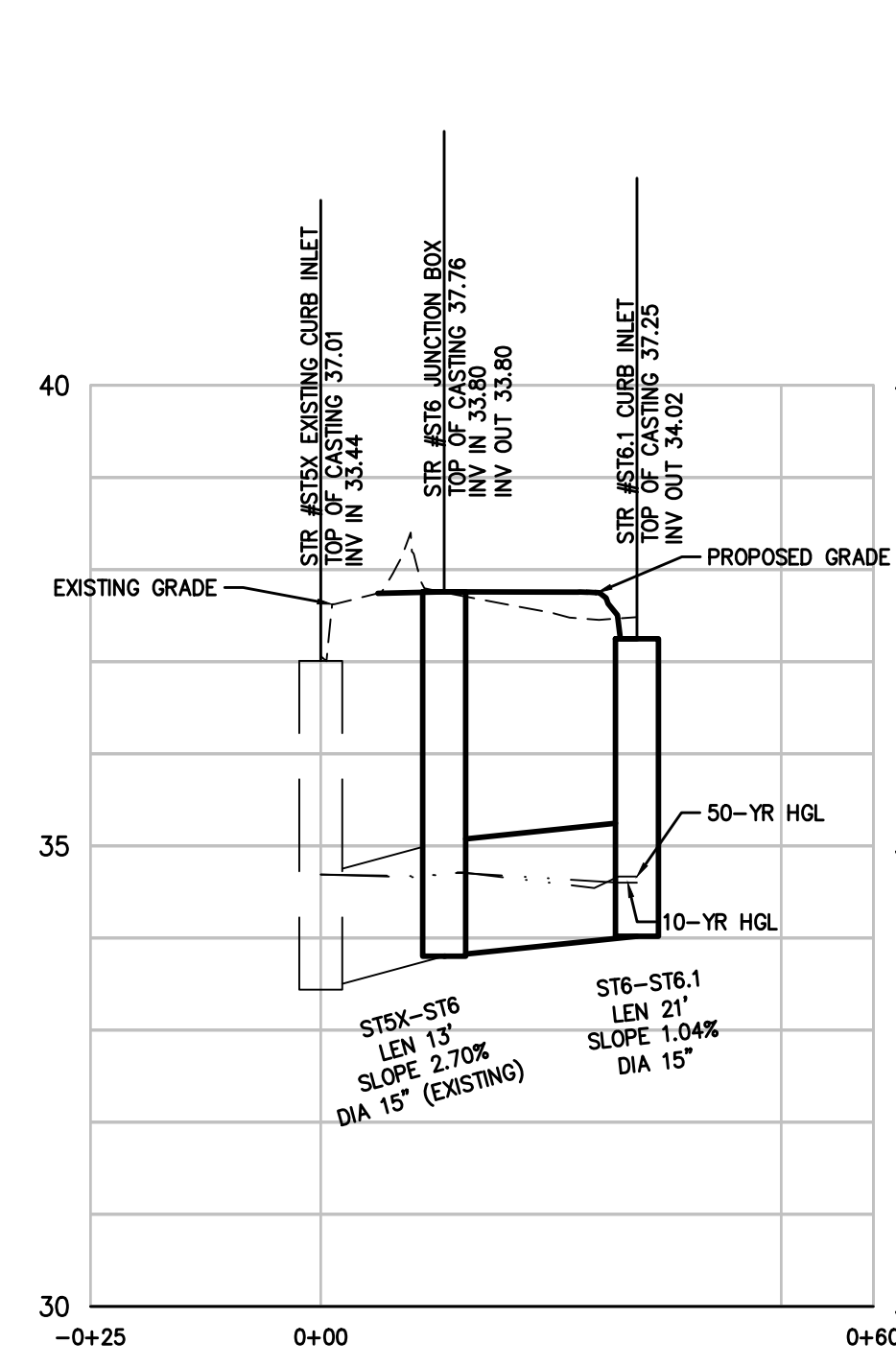
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C-3



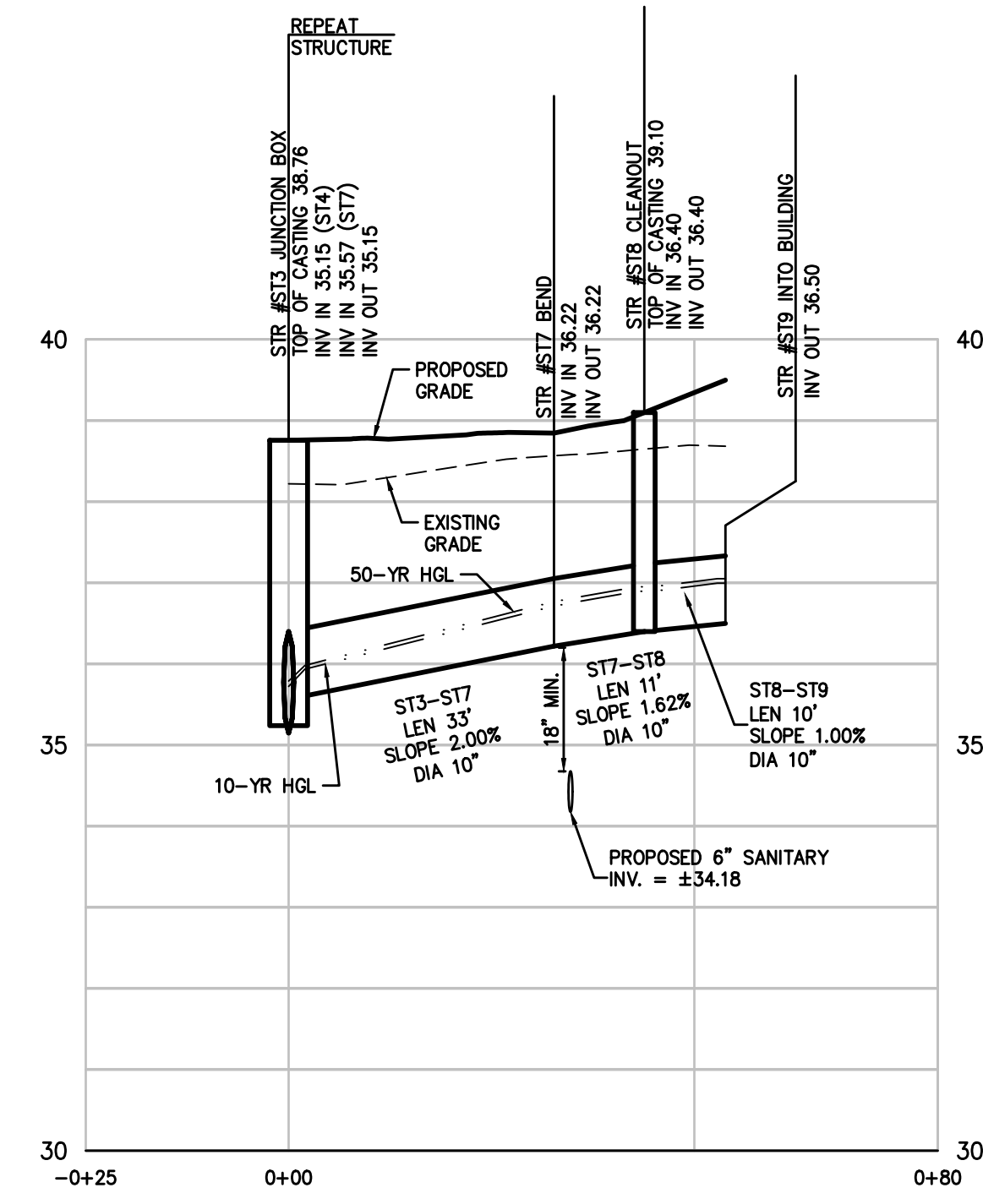
Know what's below
Call before you dig



ST1X-ST4
H: 1"=20'
V: 1"=2'



ST5X-ST6.1
H: 1"=20'
V: 1"=2'



ST3-ST9
H: 1"=20'
V: 1"=2'

Inlet Report

Line No.	Inlet ID	Q = DIA (cfs)	Q carry (cfs)	Q spill (cfs)	Q byp (cfs)	Junc. Type	Curb Inlet		Grate Inlet		Gutter				Inlet		Byp. Line No.					
							Rt (ft)	L (ft)	Area (sq ft)	W (ft)	So (ft)	W (ft)	Sw (ft)	Sx (ft)	n	Depth (ft)		Spread (ft)	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)
1	ST2	1.44	0.00	1.44	0.00	Comb	4.0	3.00	1.80	3.00	2.00	Sag	2.00	0.020	0.020	0.000	0.19	9.39	0.19	9.39	0.0	Diff
2	ST3	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
3	ST7	0.00	0.00	0.00	0.00	None	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
4	ST8	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
5	ST9	1.24	0.00	0.00	1.24	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
6	ST4	0.82	0.00	0.82	0.00	Comb	4.0	3.00	1.80	3.00	2.00	Sag	2.00	0.020	0.020	0.000	0.14	6.78	0.14	6.78	0.0	Diff
7	ST6	2.20	0.00	2.20	0.00	Comb	4.0	3.00	1.80	3.00	2.00	Sag	2.00	0.020	0.020	0.000	0.24	12.11	0.24	12.11	0.0	Diff

Project File: 18-111 storm layout 02-05-19.stm
Number of lines: 7
Run Date: 2/7/2019
NOTES: Inlet N-Values = 0.016; Intensity = 121.80 / (Inlet time + 23.50) ^ 0.84; Return period = 10 Yrs. * Indicates Known Q added. All curb inlets are throat.

Inlet Report

Line No.	Inlet ID	Q = DIA (cfs)	Q carry (cfs)	Q spill (cfs)	Q byp (cfs)	Junc. Type	Curb Inlet		Grate Inlet		Gutter				Inlet		Byp. Line No.					
							Rt (ft)	L (ft)	Area (sq ft)	W (ft)	So (ft)	W (ft)	Sw (ft)	Sx (ft)	n	Depth (ft)		Spread (ft)	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)
1	ST2	1.77	0.00	1.77	0.00	Comb	4.0	3.00	1.80	3.00	2.00	Sag	2.00	0.020	0.020	0.000	0.21	10.61	0.21	10.61	0.0	Diff
2	ST3	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
3	ST7	0.00	0.00	0.00	0.00	None	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
4	ST8	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
5	ST9	1.52	0.00	0.00	1.52	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Diff
6	ST4	1.01	0.00	1.01	0.00	Comb	4.0	3.00	1.80	3.00	2.00	Sag	2.00	0.020	0.020	0.000	0.15	7.62	0.15	7.62	0.0	Diff
7	ST6	2.70	0.00	2.70	0.00	Comb	4.0	3.00	1.80	3.00	2.00	Sag	2.00	0.020	0.020	0.000	0.27	13.73	0.27	13.73	0.0	Diff

Project File: 18-111 storm layout 02-05-19.stm
Number of lines: 7
Run Date: 2/7/2019
NOTES: Inlet N-Values = 0.016; Intensity = 171.29 / (Inlet time + 27.30) ^ 0.85; Return period = 50 Yrs. * Indicates Known Q added. All curb inlets are throat.

Storm Sewer Tabulation

Station	Len	Dmg Area	Rooft coeff	Area x C	Tc	Rain (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe Size (in)	Slope (%)	Dn (ft)	Up (ft)	HGL Elev (ft)	Grd / Rim Elev (ft)	Line ID									
1	End	47.353	0.21	0.51	0.95	0.20	0.48	5.0	6.7	6.9	3.34	9.00	3.58	15	1.94	33.88	34.80	35.13	35.54	37.01	38.00	ST1X-ST2			
2	1	43.891	0.00	0.30	0.00	0.29	0.62	7.0	1.99	6.47	3.19	15	1.00	34.80	35.24	35.54	35.90	38.00	38.83	37.2	37.2	38.83	ST2-ST3		
3	2	34.670	0.00	0.18	0.00	0.17	0.52	7.2	1.23	2.78	4.30	10	1.62	35.66	36.22	36.05	36.71	38.83	37.12	37.12	37.12	38.83	ST3-ST7		
4	3	11.121	0.00	0.18	0.00	0.17	0.51	7.2	1.23	2.79	3.66	10	1.62	36.22	36.40	36.71	36.90	37.12	39.10	37.12	39.10	37.12	39.10	ST7-ST8	
5	4	10.000	0.18	0.18	0.95	0.17	0.17	5.0	5.0	7.2	1.24	2.19	3.66	10	1.00	36.40	36.50	36.50	37.00	39.10	39.50	37.00	39.50	ST8-ST9	
6	2	48.930	0.12	0.12	0.95	0.11	0.11	5.0	5.0	7.2	0.82	6.48	2.20	15	1.00	35.24	35.73	35.80	36.09	38.83	37.75	37.75	38.83	ST3-ST4	
7	End	11.126	0.32	0.32	0.95	0.30	0.30	5.0	5.0	7.2	2.20	10.00	2.01	15	2.70	33.44	33.74	34.69	34.68	37.01	37.00	37.00	34.69	34.68	ST5X-ST6

Project File: 18-111 storm layout 02-05-19.stm
Number of lines: 7
Run Date: 2/7/2019
NOTES: Intensity = 121.80 / (Inlet time + 23.50) ^ 0.84; Return period = 10 Yrs. 10 : c = cr = e = ellip; b = box

Storm Sewer Tabulation

Station	Len	Dmg Area	Rooft coeff	Area x C	Tc	Rain (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe Size (in)	Slope (%)	Dn (ft)	Up (ft)	HGL Elev (ft)	Grd / Rim Elev (ft)	Line ID									
1	End	47.353	0.21	0.51	0.95	0.20	0.48	5.0	6.3	6.6	4.15	9.00	4.11	15	1.94	33.88	34.80	35.13	35.62	37.01	38.00	37.01	38.00	ST1X-ST2	
2	1	43.891	0.00	0.30	0.00	0.29	0.60	6.0	8.6	2.46	6.47	3.43	15	1.00	34.80	35.24	35.62	35.87	38.00	38.83	37.2	37.2	38.83	ST2-ST3	
3	2	34.670	0.00	0.18	0.00	0.17	0.51	7.2	1.23	2.78	4.58	10	1.62	35.66	36.22	36.10	36.77	38.83	37.12	37.12	37.12	38.83	ST3-ST7		
4	3	11.121	0.00	0.18	0.00	0.17	0.51	7.2	1.23	2.79	3.96	10	1.62	36.22	36.40	36.77	36.95	37.12	39.10	37.12	39.10	37.12	39.10	ST7-ST8	
5	4	10.000	0.18	0.18	0.95	0.17	0.17	5.0	5.0	7.2	1.24	2.19	3.96	10	1.00	36.40	36.50	36.50	37.05	39.10	39.50	37.05	39.50	ST8-ST9	
6	2	48.930	0.12	0.12	0.95	0.11	0.11	5.0	5.0	7.2	0.82	6.48	2.34	15	1.00	35.24	35.73	35.87	36.12	38.83	37.75	37.75	38.83	ST3-ST4	
7	End	11.126	0.32	0.32	0.95	0.30	0.30	5.0	5.0	7.2	2.70	10.00	2.48	15	2.70	33.44	33.74	34.69	34.67	37.01	37.00	37.00	34.69	34.67	ST5X-ST6

Project File: 18-111 storm layout 02-05-19.stm
Number of lines: 7
Run Date: 2/7/2019
NOTES: Intensity = 171.29 / (Inlet time + 27.30) ^ 0.85; Return period = 50 Yrs. 50 : c = cr = e = ellip; b = box

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

NO.	REVISION	DATE

DG
Donaville Group, INC.
3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL 024555
3/10/19
JOSHUA W. COX
C-4217

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

DISCOUNT TIRE

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5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405

STORE NUMBER:
NCC 39
BDG # 18-111
PROJECT MANAGER:
DON THRAILKILL

PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105

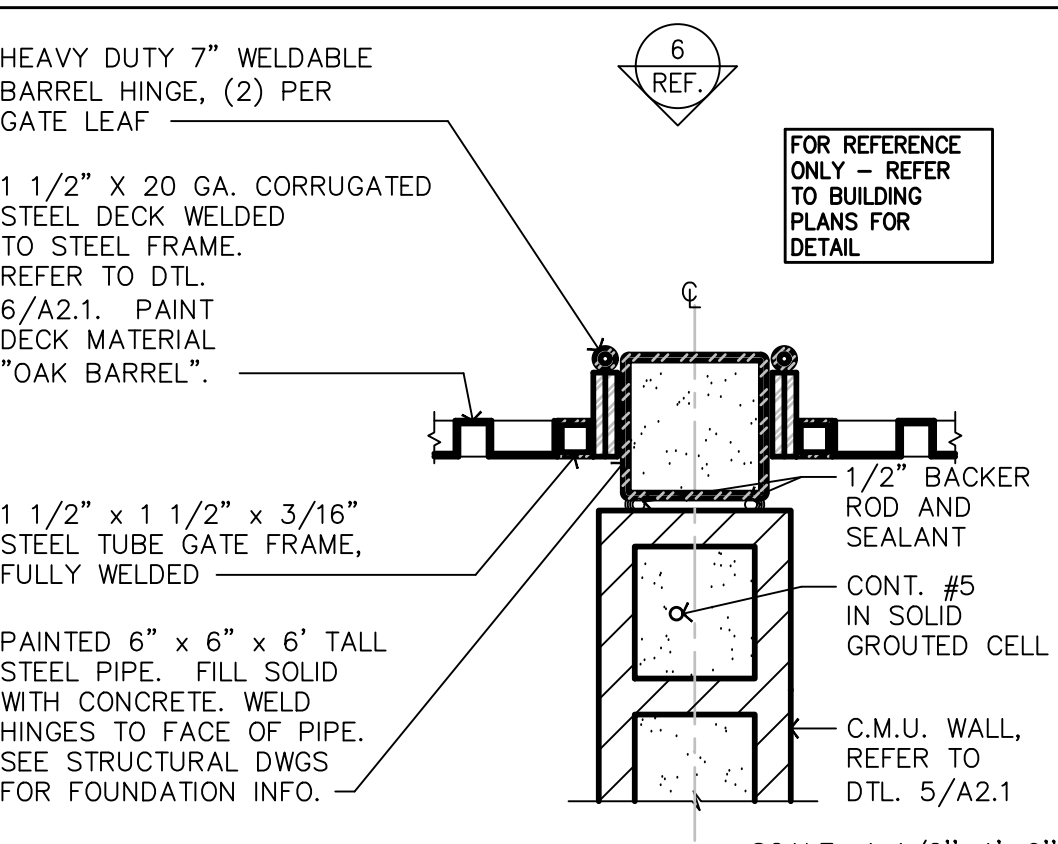
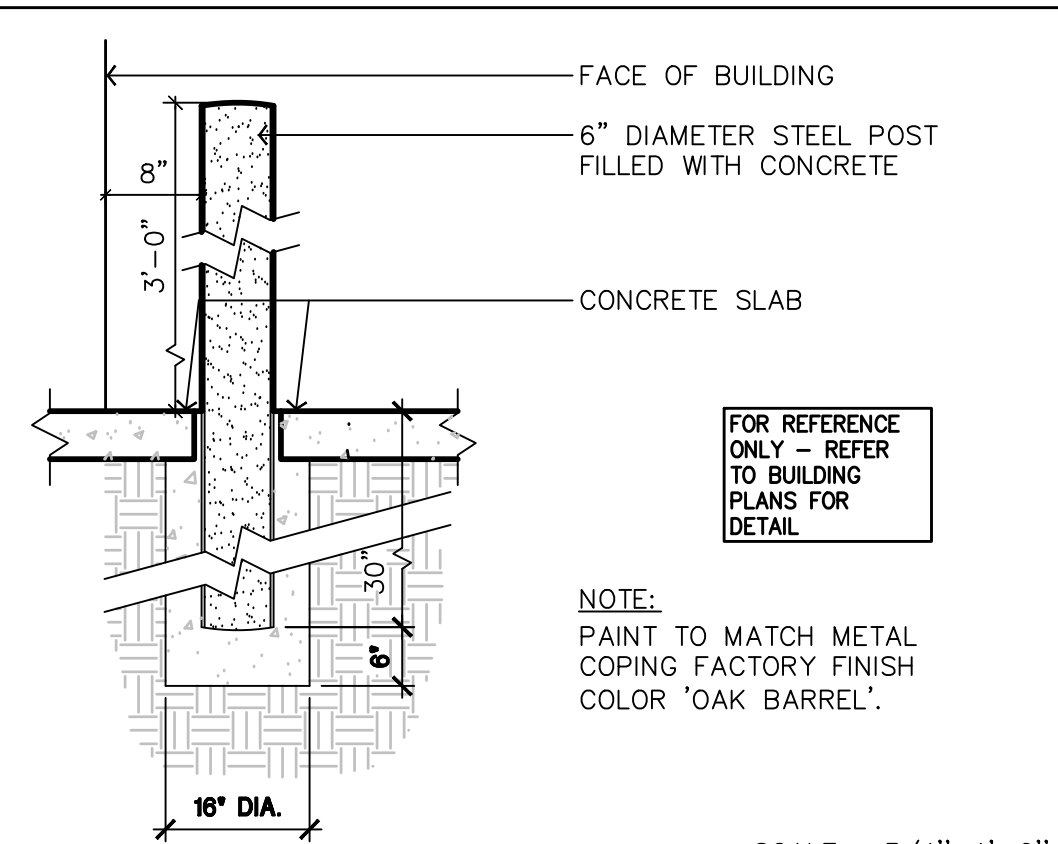
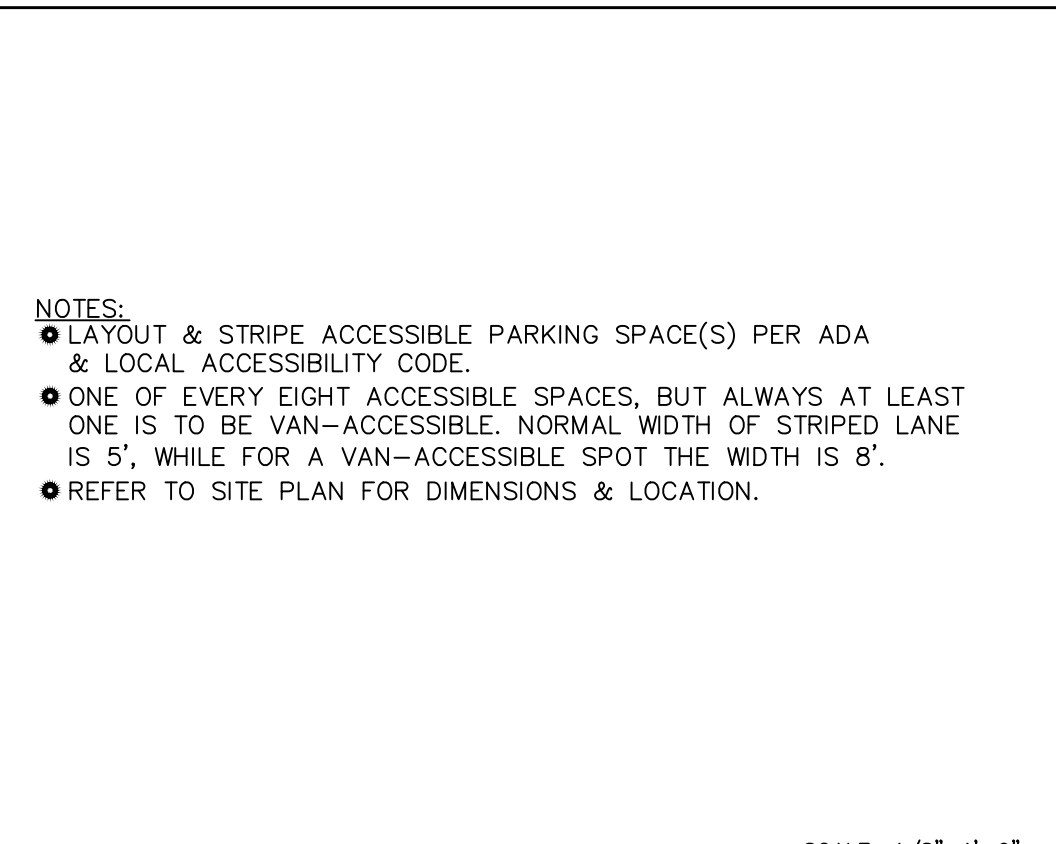
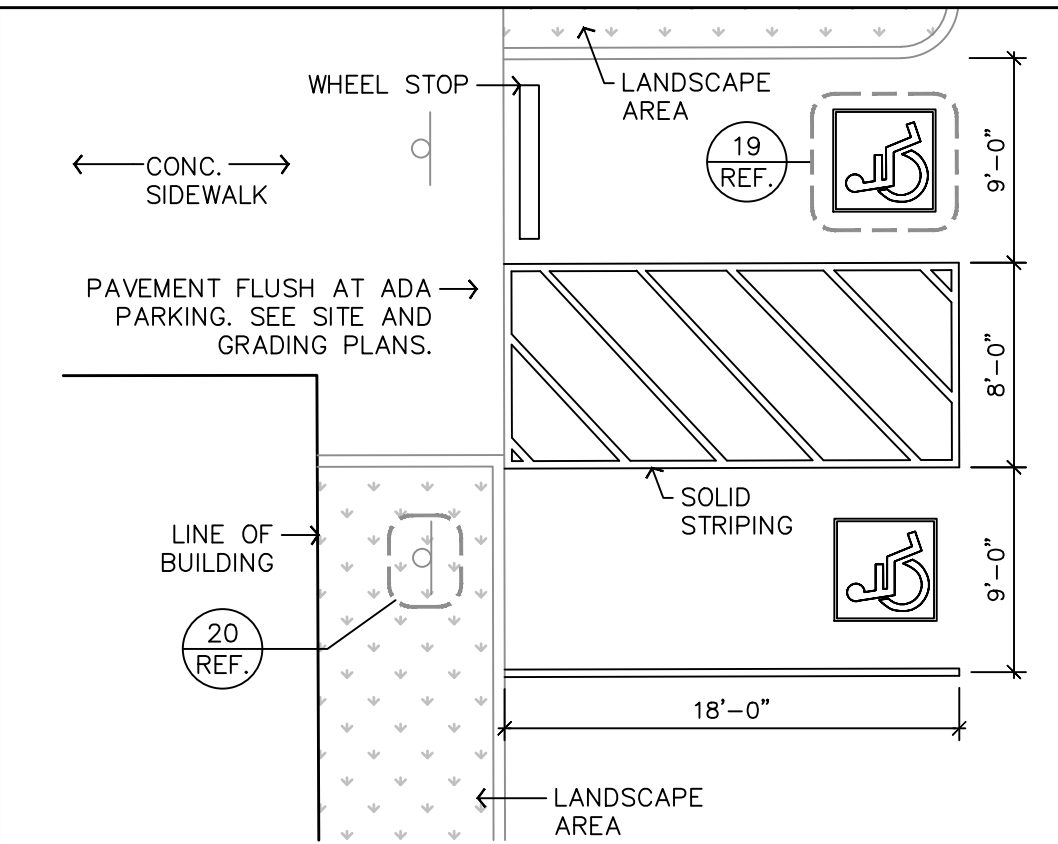
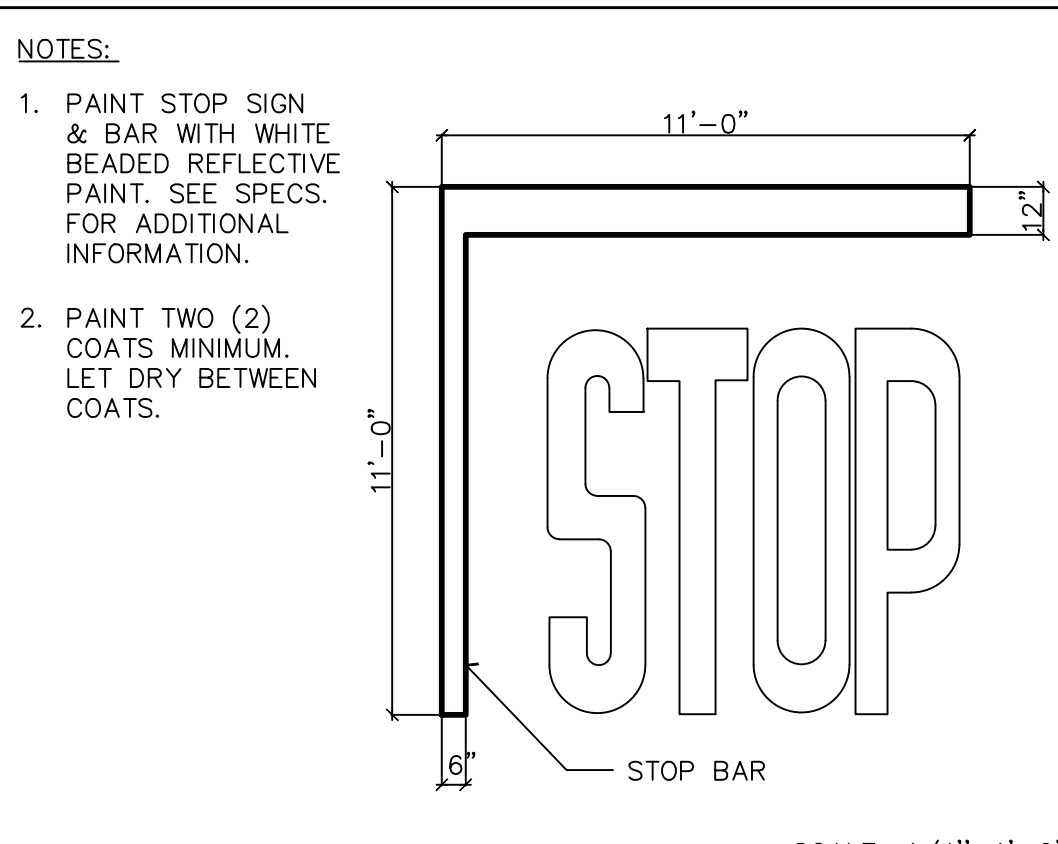
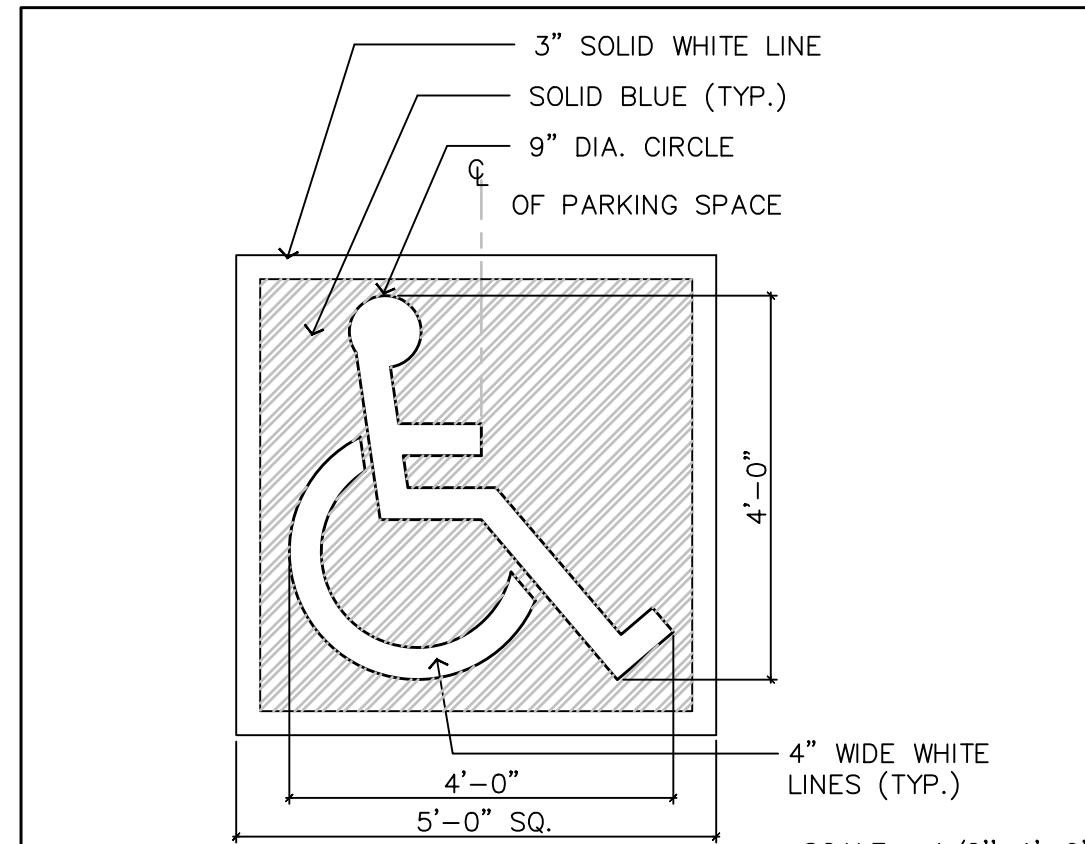
DRAWN BY:
SC

SHEET TITLE:
STORM & SANITARY
SEWER PROFILES

DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
ST-1

USGS GDA83 - May 21, 2019 - 6:57am - 6:57am
P:\Project Drawings Files\18-111 storm layout\18-111.mxd - L:\0205 - ST-1



19 PAINTED ACC. SYMBOL

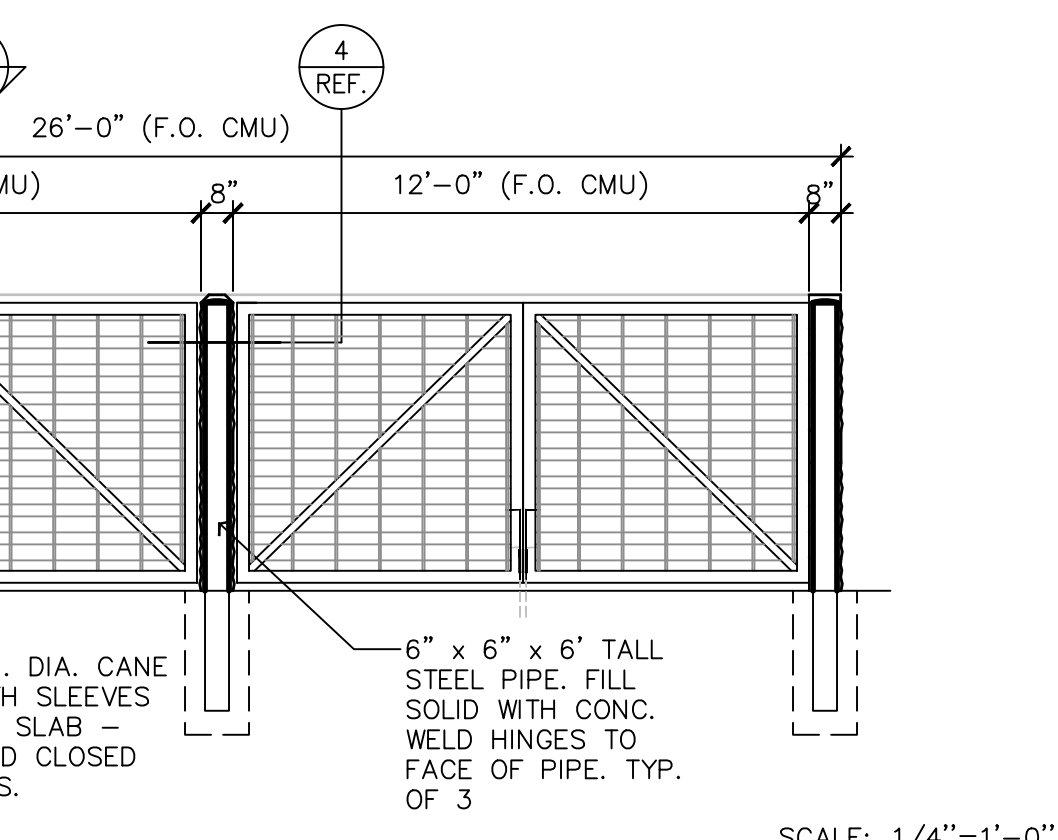
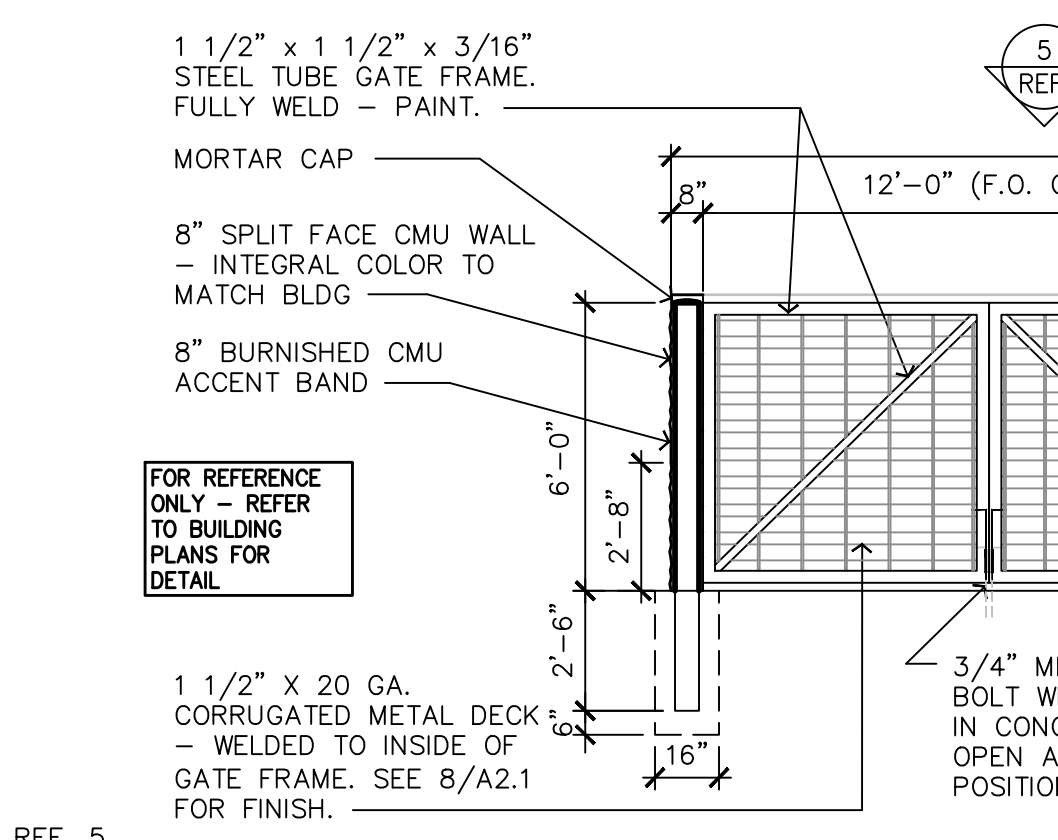
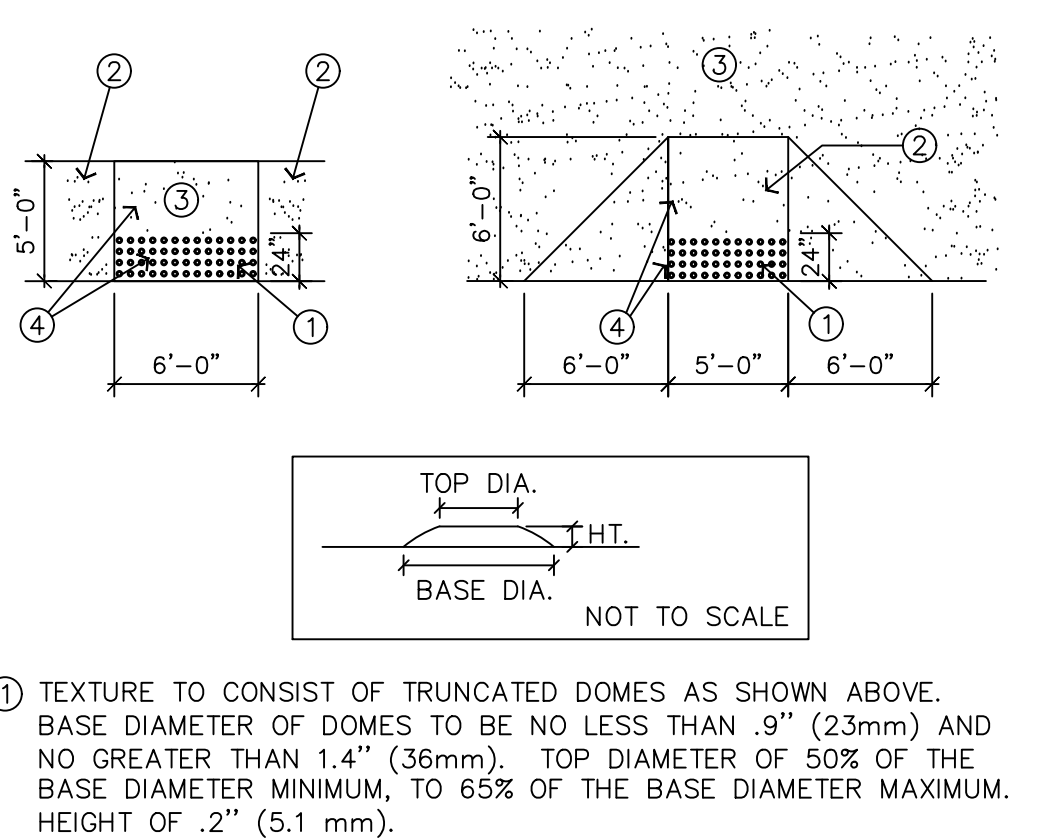
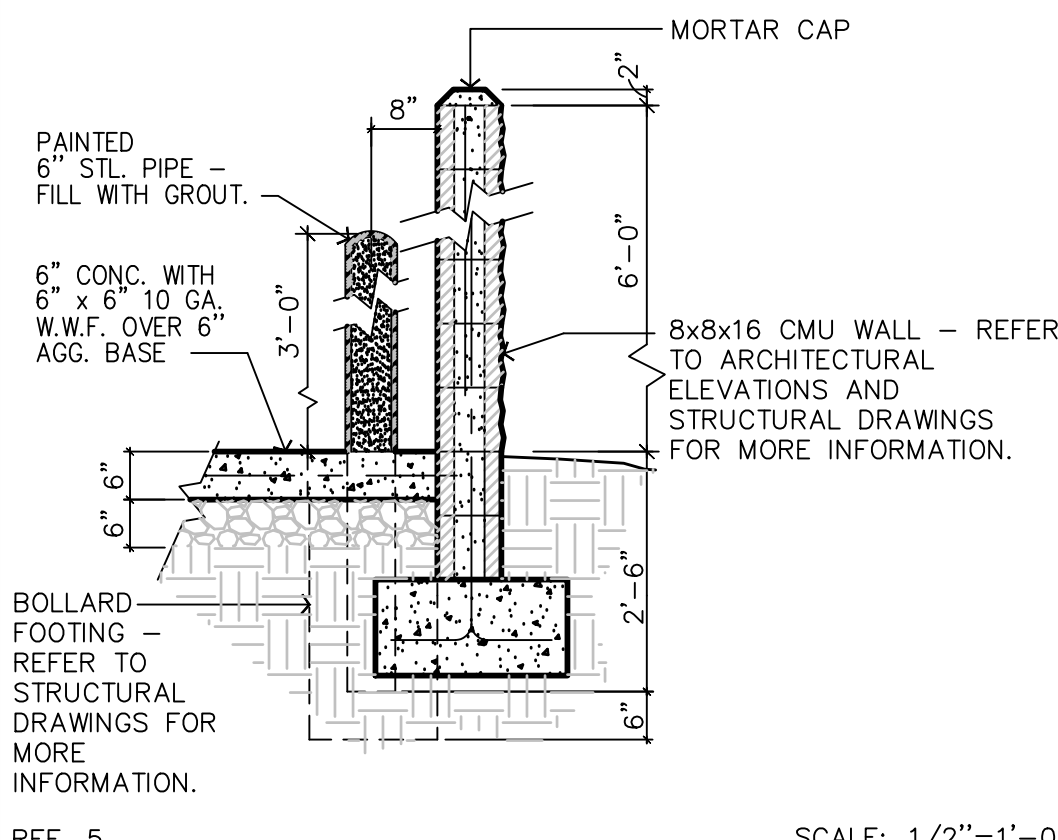
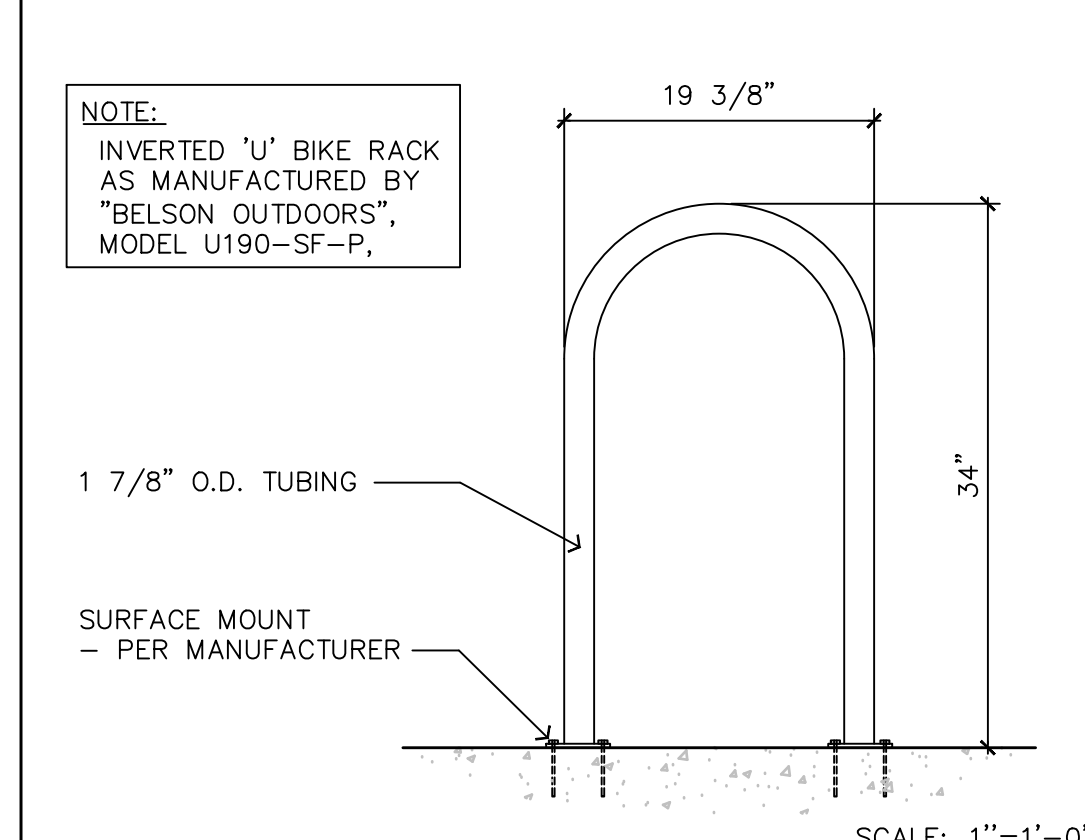
22 STOP SIGN / BAR

11 ACCESSIBLE PARKING

8 BOLLARD DETAIL

4 GATE DETAIL

6 DETACHED TRASH ENCLOSURE GATE ELEVATION (FRONT)



7 INVERTED 'U' BIKE RACK DETAIL

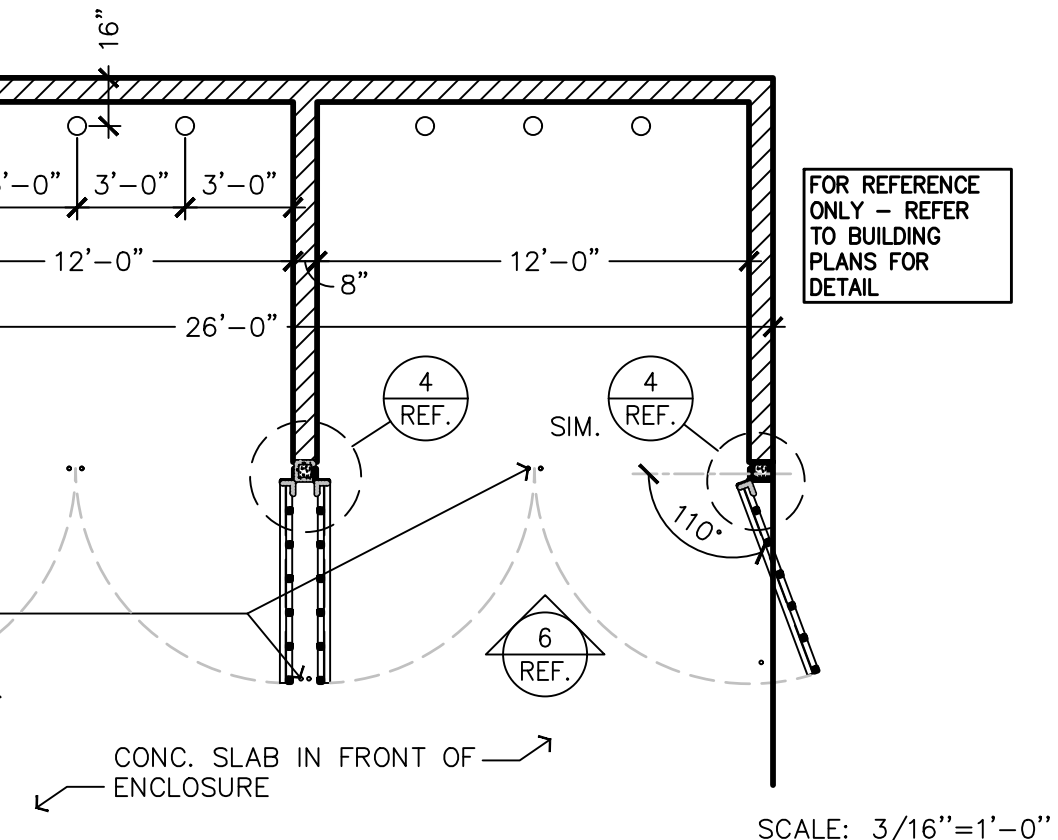
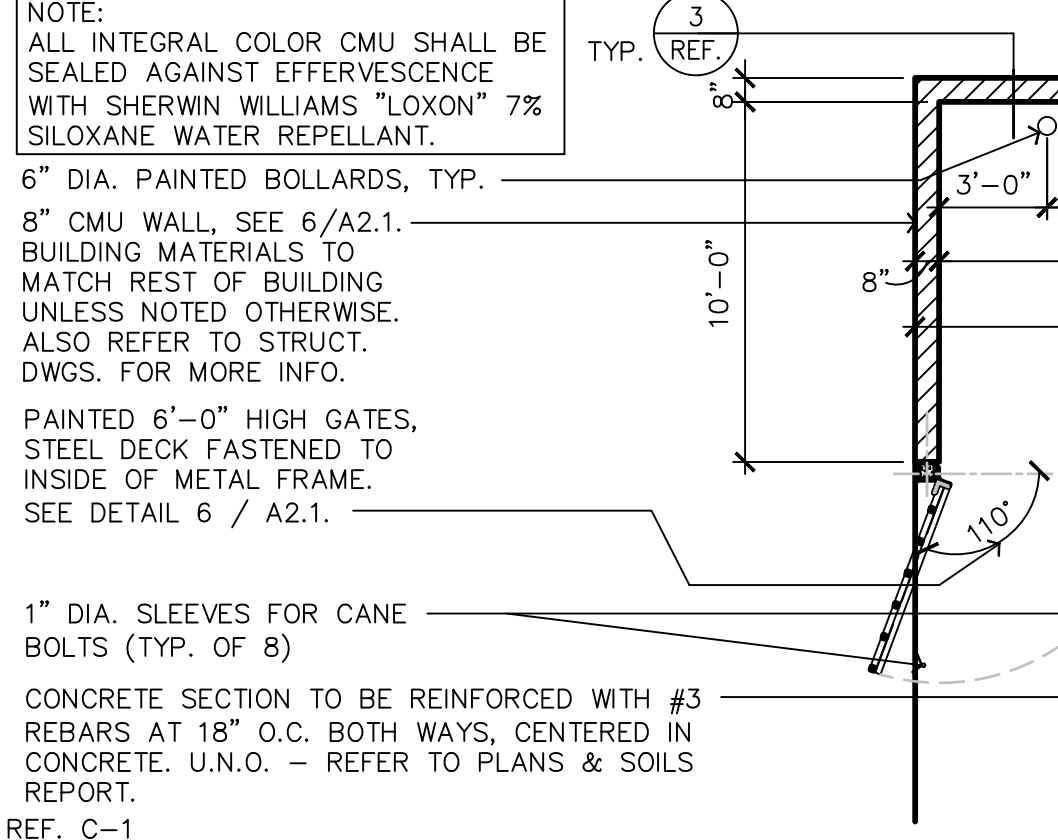
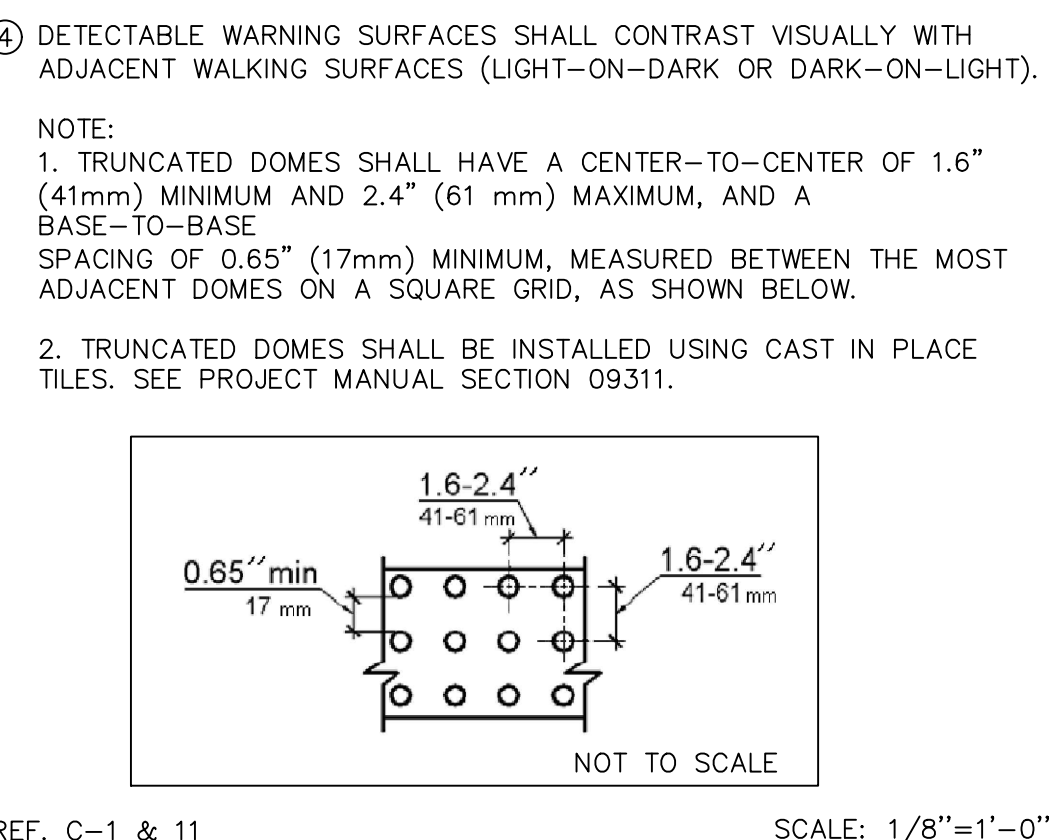
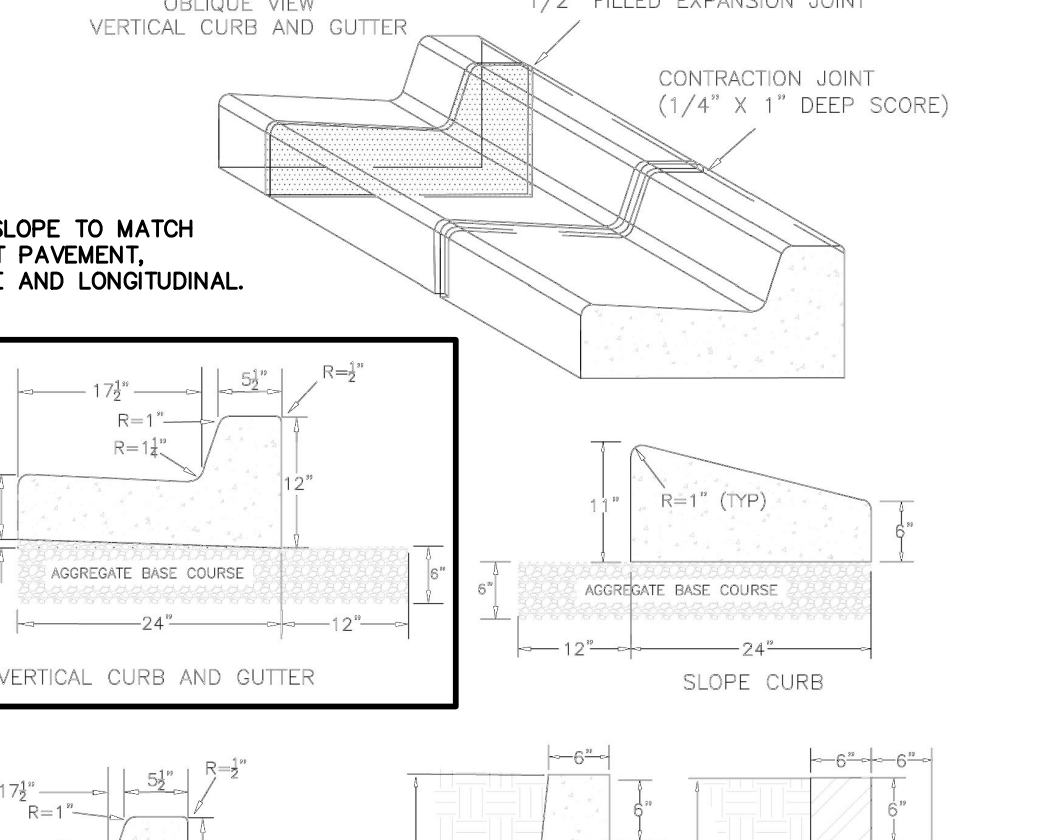
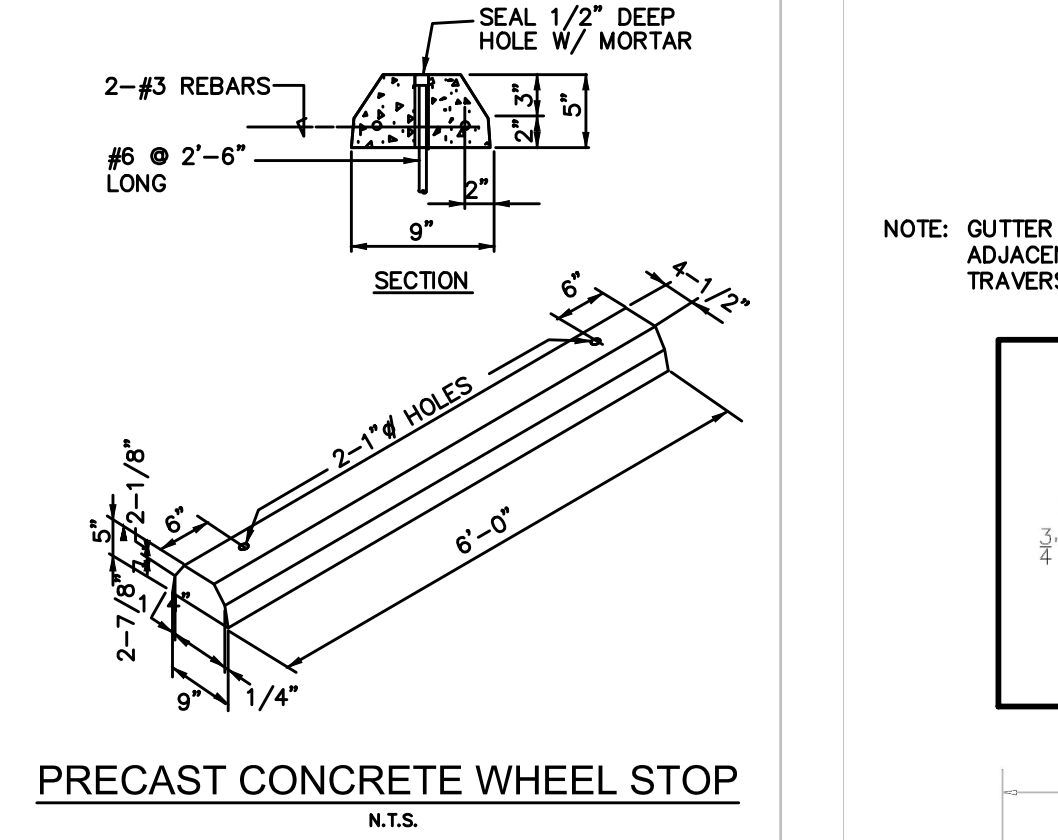
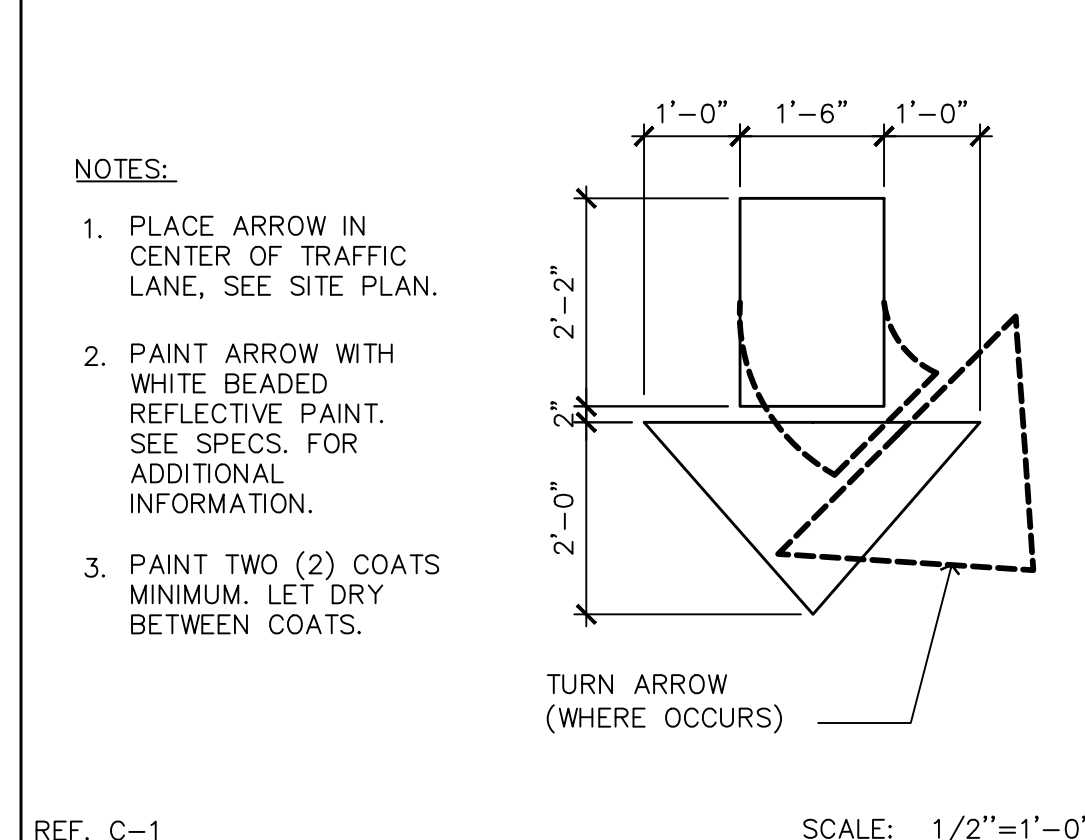
3 TRASH ENCL. / BOLLARD

6 DETACHED TRASH ENCLOSURE GATE ELEVATION (FRONT)

6 DETACHED TRASH ENCLOSURE GATE ELEVATION (FRONT)

6 DETACHED TRASH ENCLOSURE GATE ELEVATION (FRONT)

6 DETACHED TRASH ENCLOSURE GATE ELEVATION (FRONT)



18 TRAFFIC DIRECTIONAL ARROW

3 TRASH ENCL. / BOLLARD

6 DETACHED TRASH ENCLOSURE GATE ELEVATION (FRONT)

9 ACCESSIBLE RAMP

5 DETACHED TRASH ENCLOSURE

5 DETACHED TRASH ENCLOSURE

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CURBING

DATE: AUGUST, 2011

DRAWN: PBUSS

CHECKED: DBC

SCALE: NOT TO SCALE

ACCESSIBLE RAMP

DATE: AUGUST, 2011

DRAWN: PBUSS

CHECKED: DBC

SCALE: NOT TO SCALE

PIPE BOLLARD

DATE: AUGUST, 2011

DRAWN: PBUSS

CHECKED: DBC

SCALE: NOT TO SCALE

"STOP" SIGN

DATE: AUGUST, 2011

DRAWN: PBUSS

CHECKED: DBC

SCALE: NOT TO SCALE

NO.	REVISION	DATE	CONSULTANT:

DG
Donaville Group, INC.

3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

DISCOUNT TIRE

DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
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PH: 480-606-6000

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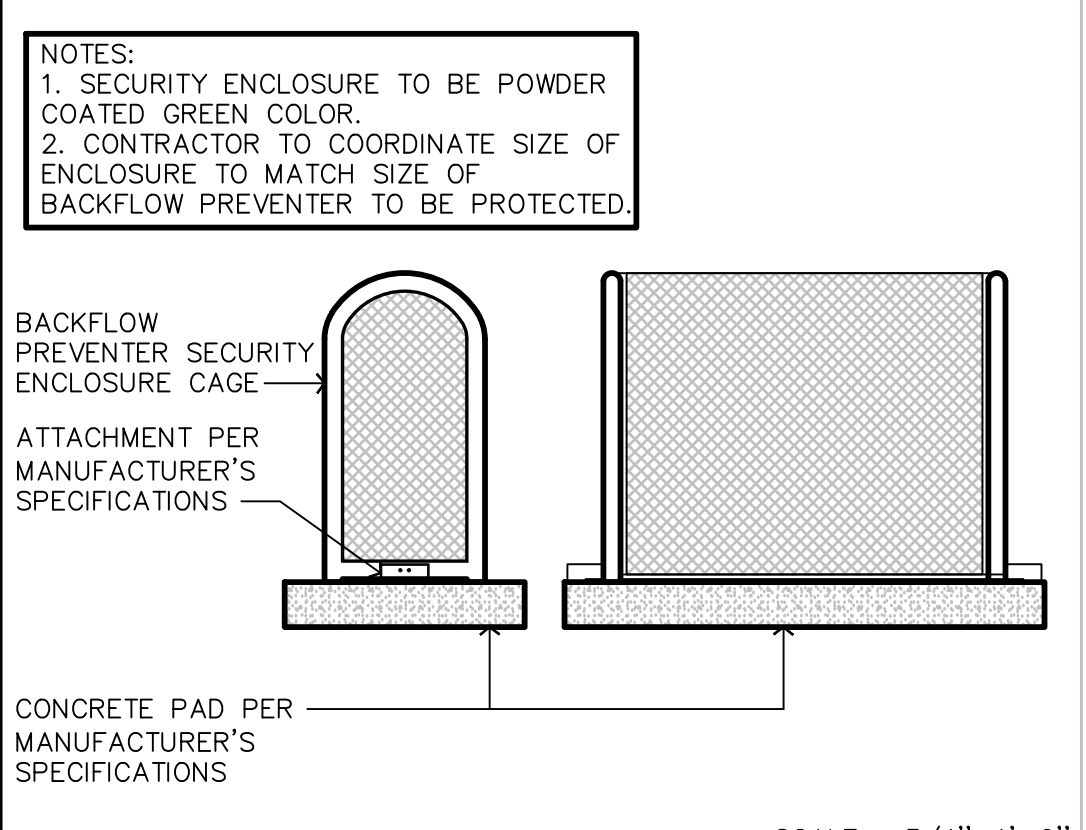
5335 MARKET STREET WILMINGTON, NEW HANOVER COUNTY, NC 28405

SHEET TITLE: SITE DETAILS

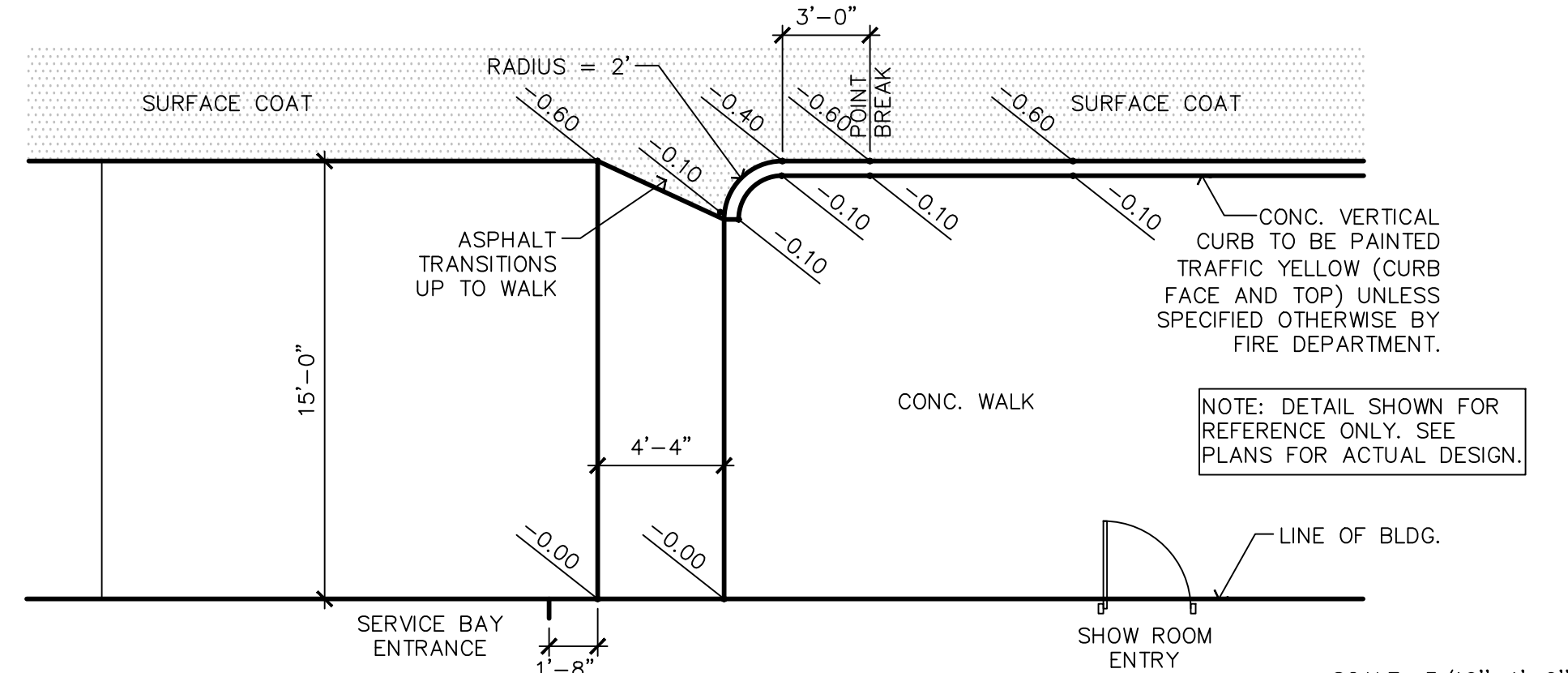
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DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

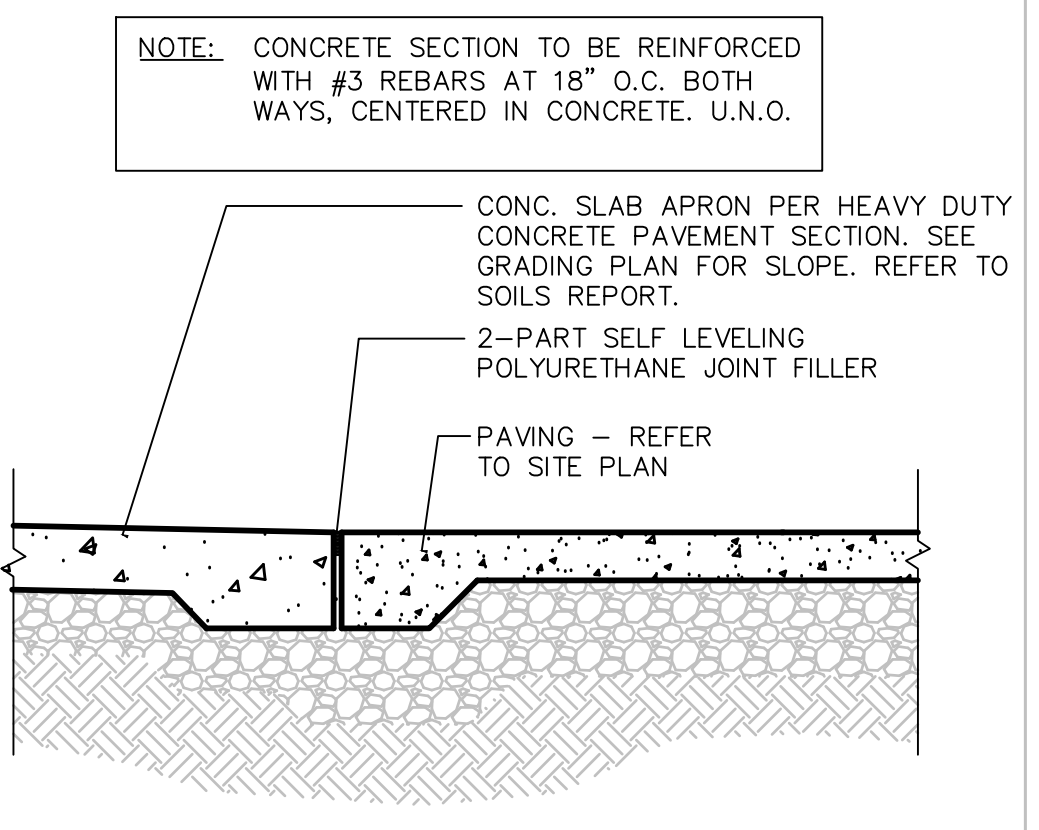
USPS, March - May 21, 2019 - 9:57am P:\Project Drawing Files\Site Department\2018\18-111-Wilmington, NC (Discount Tire)\18-111_Details.dwg - LAYOUT: D-1



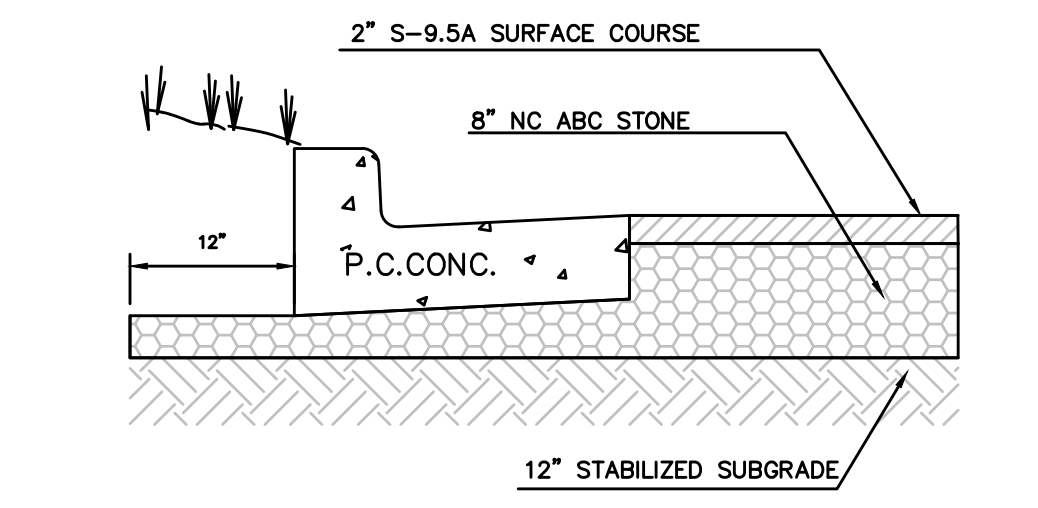
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4 SECURITY ENCLOSURE



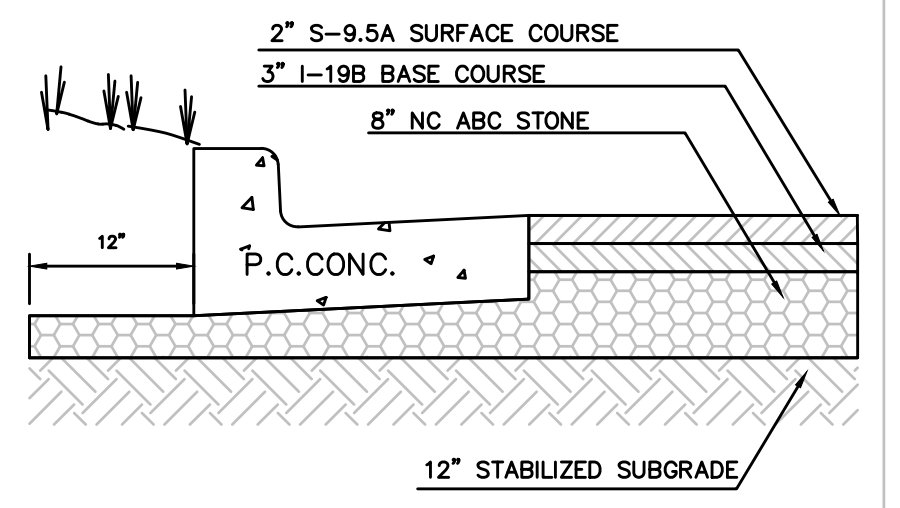
REF. C-1 SCALE: 3/16"=1'-0"
5.1 TRANSITION CURB



REF. C-1 SCALE: 1"=1'-0"
12 CONCRETE APRON

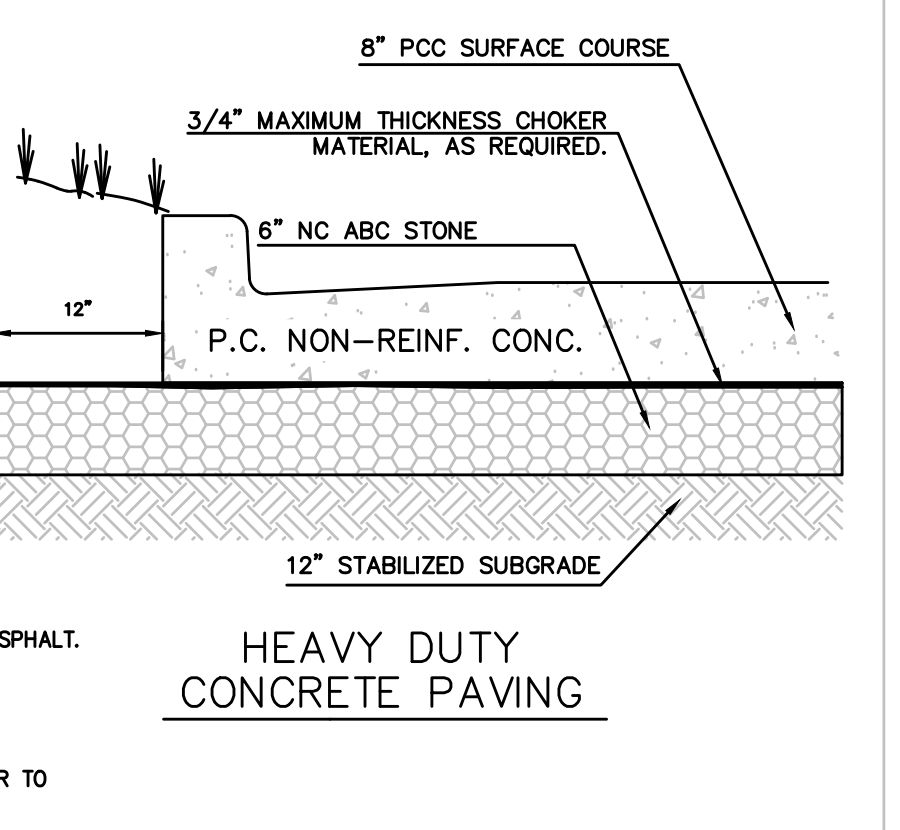


STANDARD DUTY ASPHALT PAVING



HEAVY DUTY ASPHALT PAVING

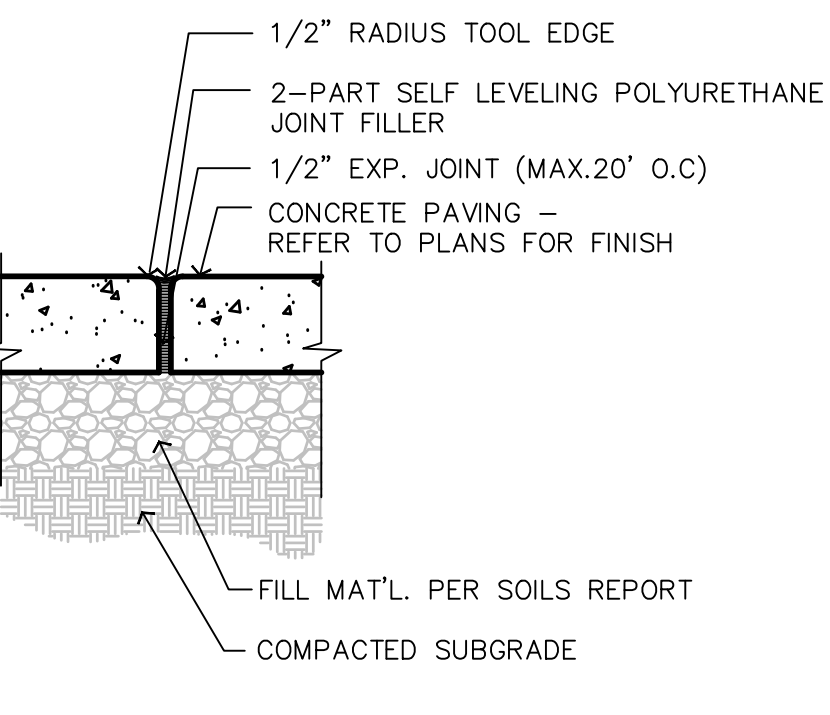
- GENERAL NOTES**
- FOR PREPARATION OF PAVEMENT SUBGRADE, FILL PLACED WITHIN 24 INCHES OF FINISHED SUBGRADE ELEVATION IN FILL AREAS AND AT LEAST THE UPPER 12 INCHES OF SUBGRADE IN CUT AREAS TO BE PAVED SHALL BE COMPACTED TO AT LEAST 98% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698). FILL PLACED BELOW 24 INCHES SHALL BE COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DENSITY.
 - AFTER PROFFROLLING WITH A LOADED TANDEM AXLE DUMP TRUCK AND REPAIRING DEEP SUBGRADE DEFICIENCIES, THE ENTIRE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND UNIFORMLY COMPACTED TO AT LEAST 98% OF STANDARD PROCTOR.
 - GRAVEL BASE COURSE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 520 OF THE STATE OF NORTH CAROLINA "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, 2018 EDITION. COMPACTION OF AGGREGATE BASE COURSE SHALL BE TO A DRY DENSITY OF AT LEAST 100% OF THE MODIFIED PROCTOR MAX. DRY DENSITY (ASTM D1557).
 - SURFACE AND BINDER COURSE ASPHALTIC CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 610 AND 620, RESPECTIVELY, OF THE STATE OF NORTH CAROLINA "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, 2018 EDITION.
 - THE PORTLAND CEMENT CONCRETE PAVEMENT MIXTURE SHALL BE IN ACCORDANCE WITH SECTION 700 OF THE STATE OF NORTH CAROLINA "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, 2018 EDITION. THE MIXTURE SHALL BE DESIGNED TO DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH A 4 INCH MAXIMUM SLUMP AND 5 TO 7% ENTRAINED AIR. MINIMUM FLEXURAL STRENGTH OF 650 PSI AT 28 DAYS.
 - CONTRACTOR SHALL PROVIDE A PRIME COAT AND TACK COAT TO CURB WHERE CURB CONTACTS ASPHALT.
 - PAVEMENT DESIGN WAS PREPARED BY GET SOLUTIONS, INC. PER GEOTECHNICAL REPORT PROJECT #X18-1146 DATED MAY 1, 2018. FURTHER DETAILS ON PREPARATION AND COMPACTION CAN BE FOUND BOTH IN THEIR REPORT AND PROJECT SPECIFICATIONS.
 - PAVEMENT DESIGN IS BASED ON A CBR OF 10.
 - CONTRACTOR IS REQUIRED TO SUBMIT MIX DESIGNS TO THE ENGINEER A MINIMUM OF 2 WEEKS PRIOR TO PAVING OPERATIONS.



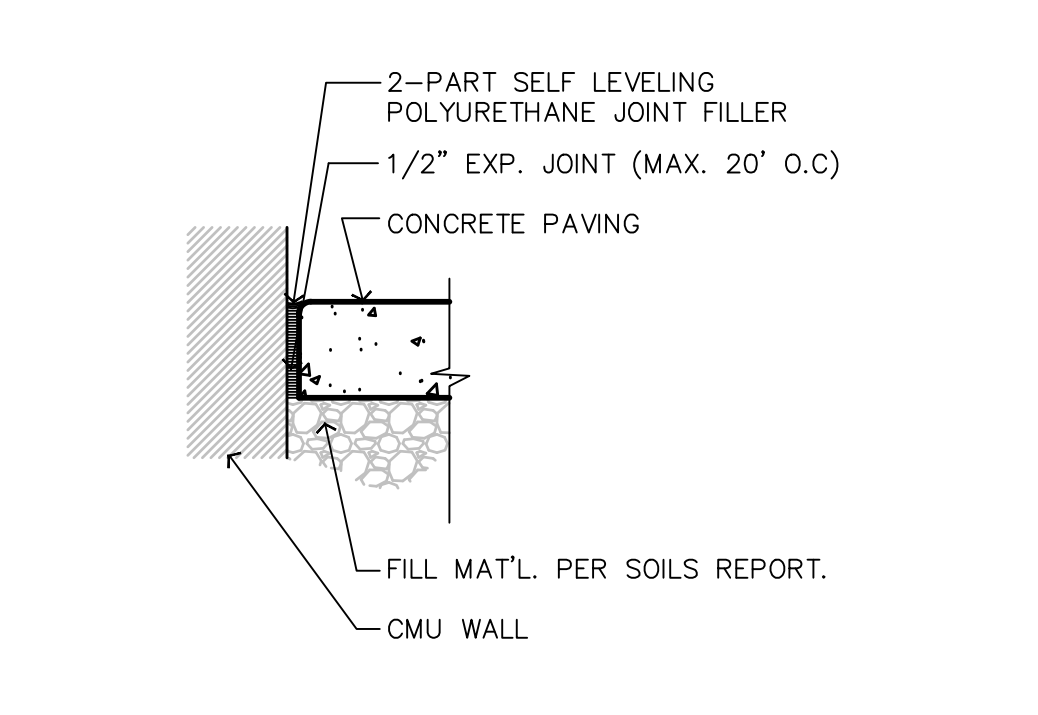
HEAVY DUTY CONCRETE PAVING

- CONCRETE PAVEMENT GENERAL NOTES:**
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STATE OF NORTH CAROLINA "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, 2018 EDITION.
 - THE APPLICABLE NC DOT SPECIFICATIONS FOR THE MATERIALS AND METHODS USED ARE AS FOLLOWS: AGGREGATE BASE COURSE - SEC. 520; PORTLAND CEMENT CONCRETE - SEC. 700.
 - PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 psi WITH A MODULES OF RUPTURE OF 650 PSI OR MORE.
 - SAW CUT CONTRACTION JOINTS SHOULD BE SPACED AT 15' O.C. MAXIMUM EACH WAY. JOINTS SHOULD EXTEND TO A DEPTH OF 1.5" INTO THE SLAB. ISOLATION JOINTS SHOULD BE USED WHERE PAVEMENT ABUTS DRAINAGE STRUCTURES AND BUILDINGS.
 - CONSTRUCTION JOINTS SHALL BE UNDERLAIN BY A NON-WOVEN GEOTEXTILE (APPROX. 2' WIDE) TO PREVENT UPWARD PUMPING OF SOIL FINES THROUGH THE JOINTS.

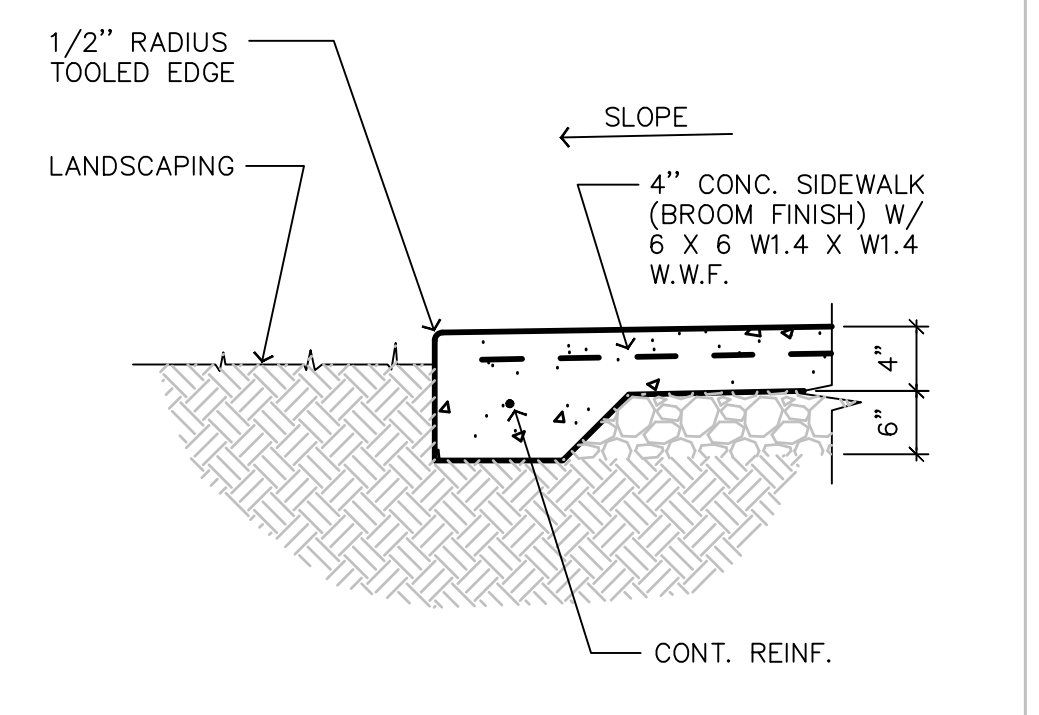
ON-SITE PAVING DETAILS
 N.T.S.



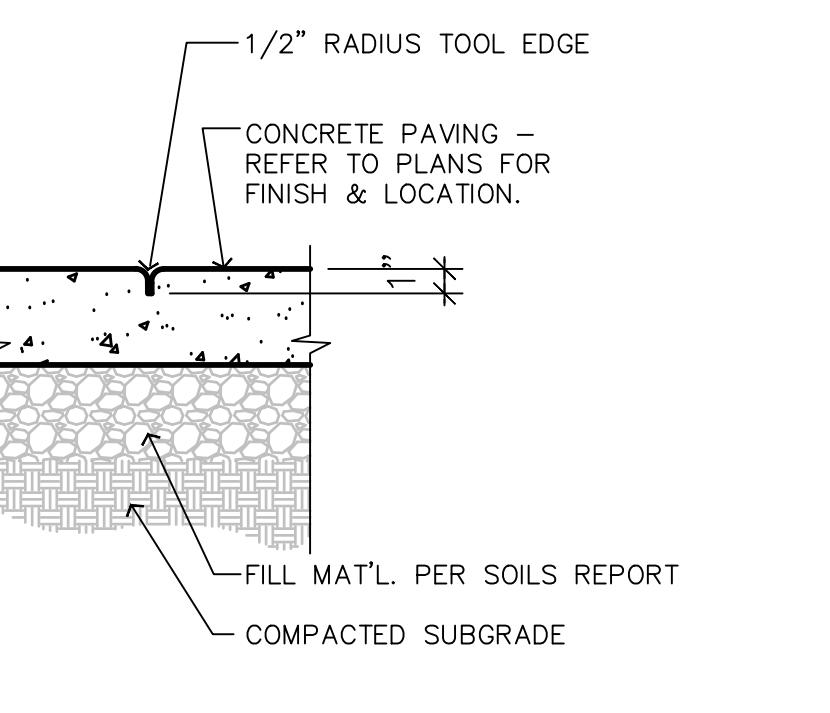
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14 EXPANSION JOINT



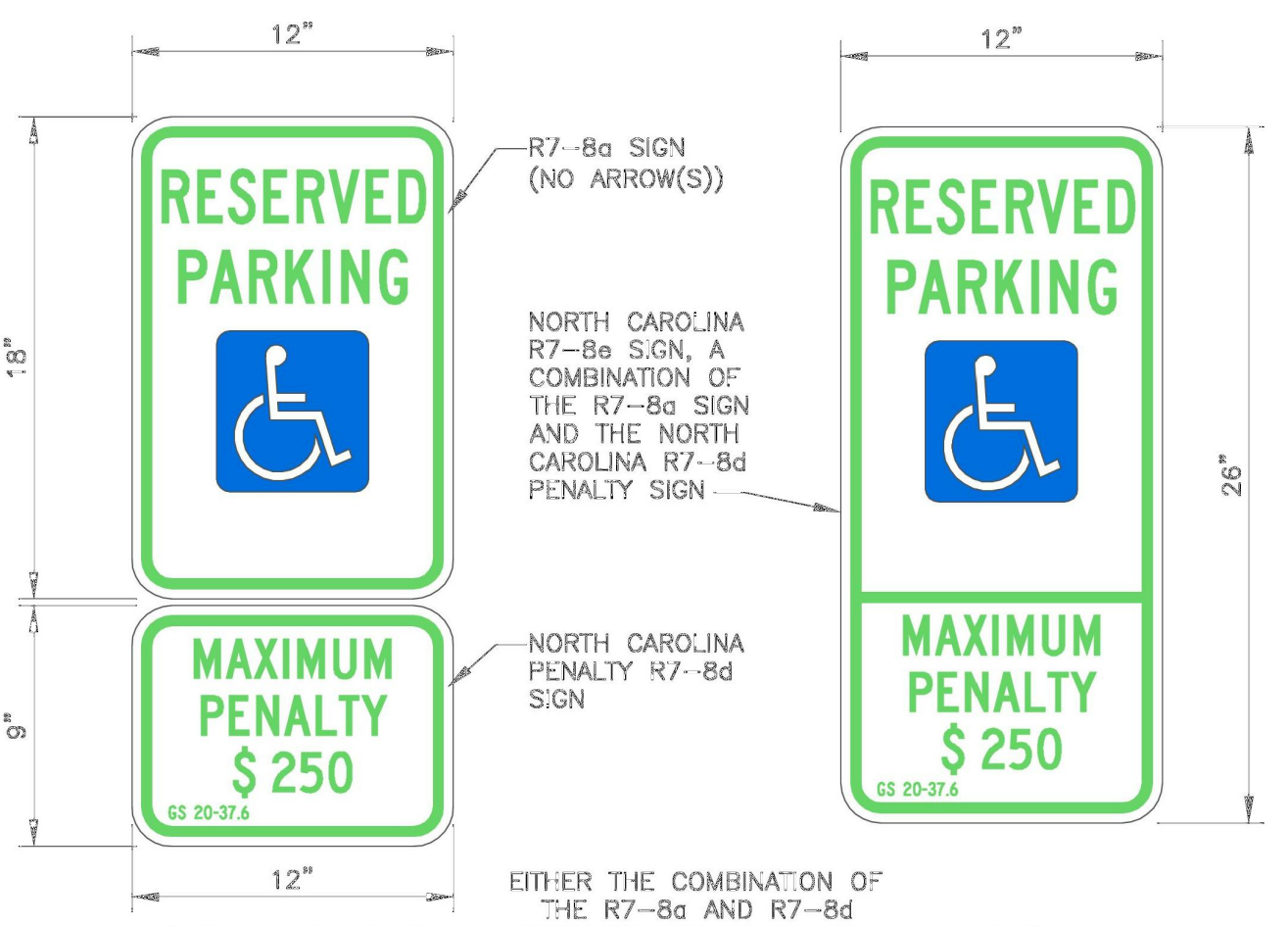
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15 EXP. JOINT AT WALL



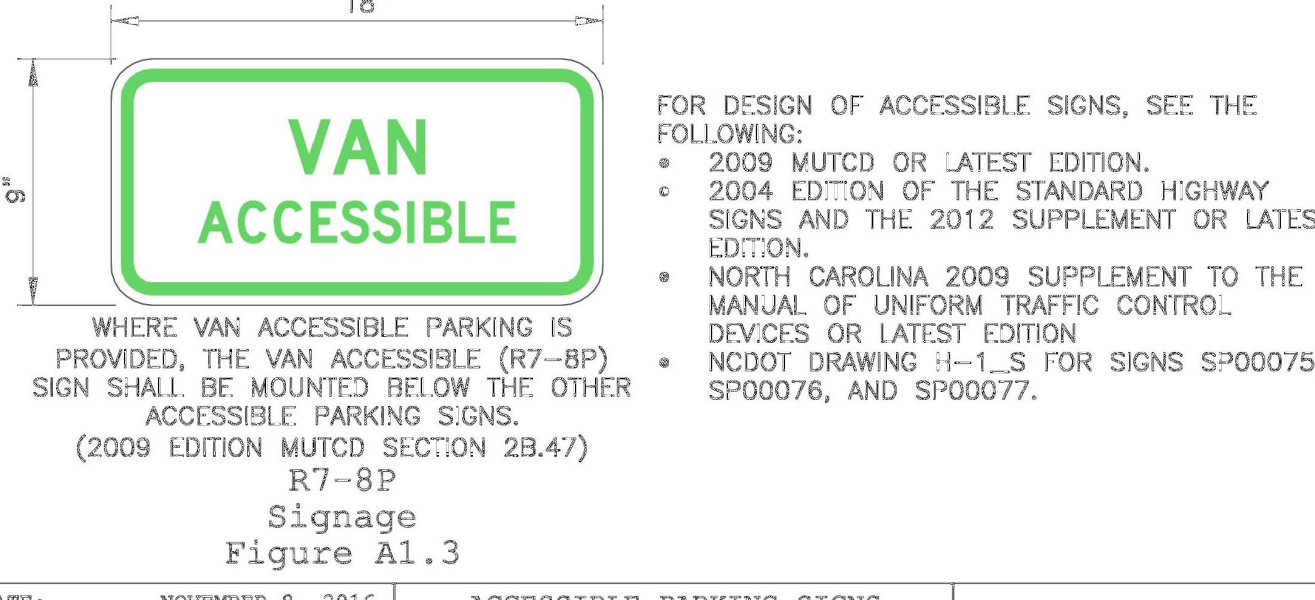
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17 SIDEWALK TURNDOWN



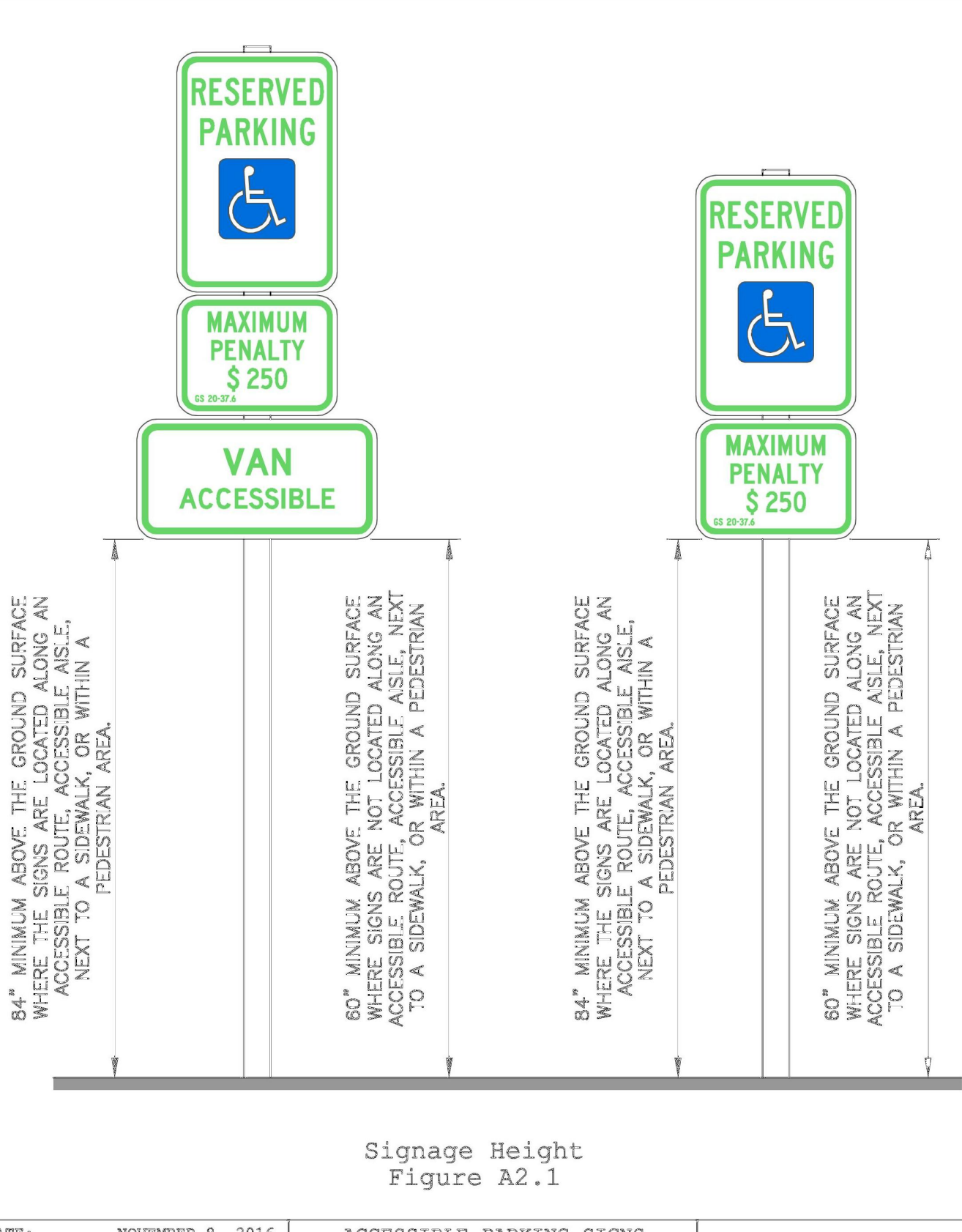
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13 SCORE MARK



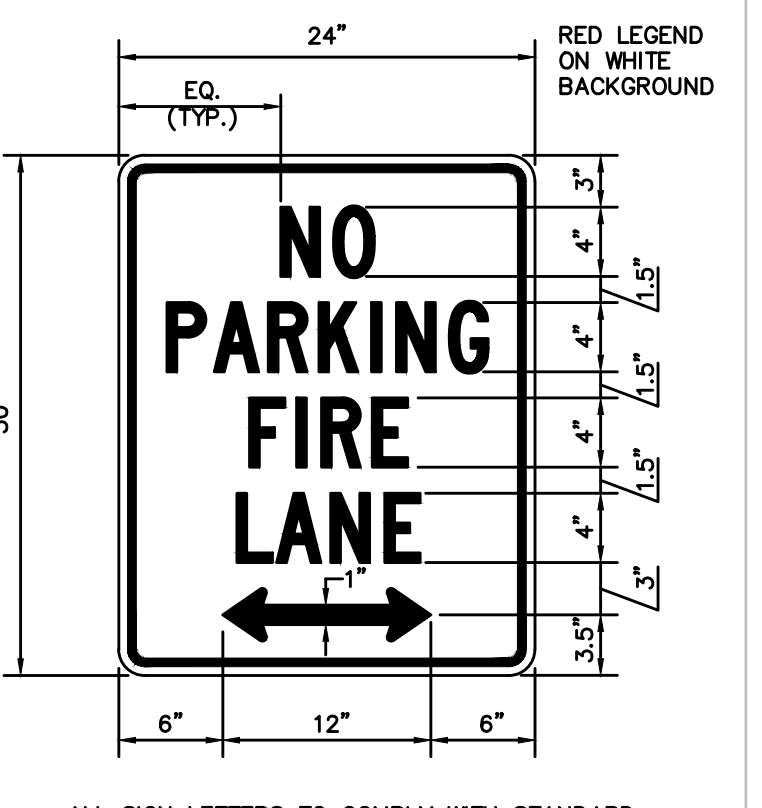
R7-8a and R7-8d Signage Figure A1.1
R7-8e Signage Figure A1.2



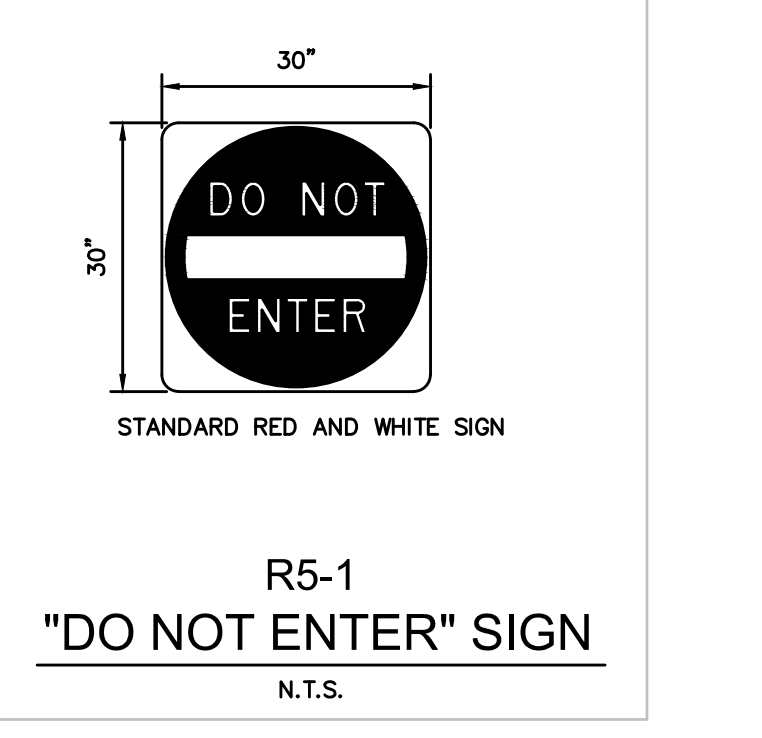
ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS SHEET A1 OF 5



Signage Height Figure A2.1



"NO PARKING - FIRE LANE" SIGN
 N.T.S.



R5-1 "DO NOT ENTER" SIGN
 N.T.S.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
 Signed: _____

DATE: NOVEMBER 8, 2016
 DRAWN BY: DALE THOMPSON
 CHECKED BY: RANDALL GLAZIER
 SCALE: NOT TO SCALE

DATE: NOVEMBER 8, 2016
 DRAWN BY: DALE THOMPSON
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NO.	REVISION	DATE	CONSULTANT:

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 Donaville Group, INC.
 3471 DONAVILLE ST.
 DULUTH, GA 30096
 PHONE: 404-567-5701
 FAX: 404-567-5703

NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL 024855
 5/10/19
 JOSHUA W. COX
 C-4217

DEVELOPER:
 DISCOUNT TIRE COMPANY
 20225 N. SCOTTSDALE RD.
 SCOTTSDALE, AZ 85255
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DISCOUNT TIRE

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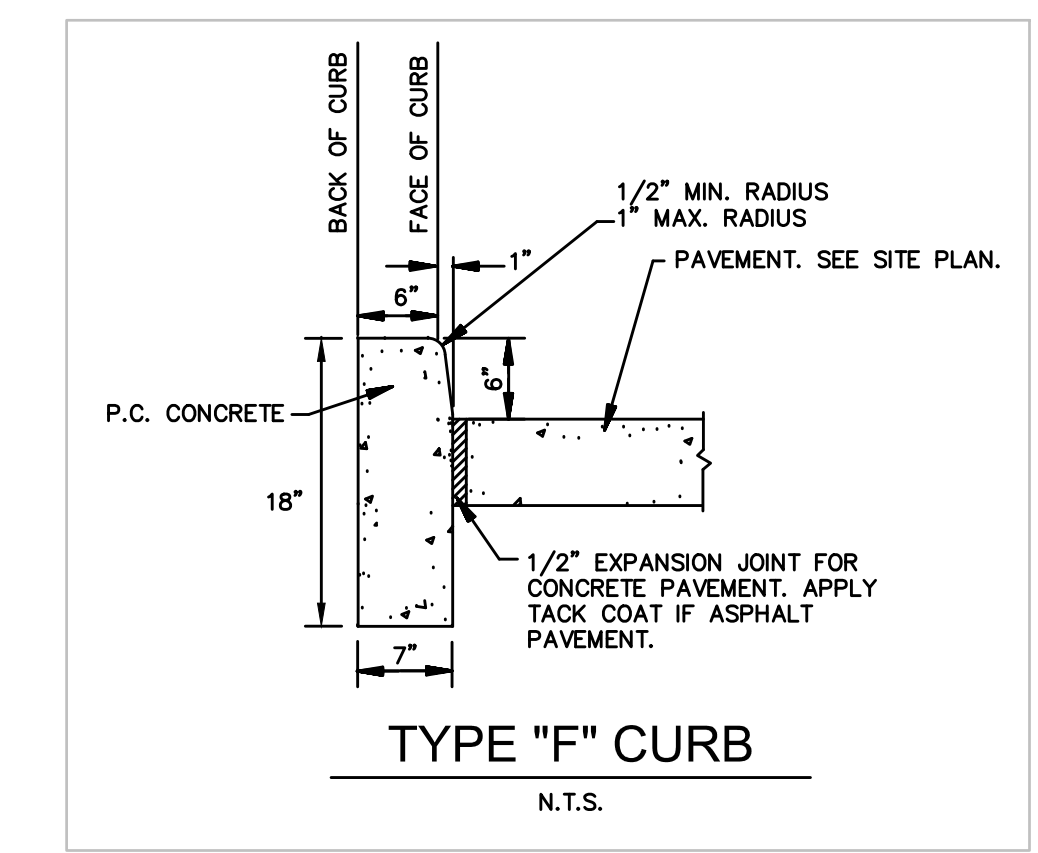
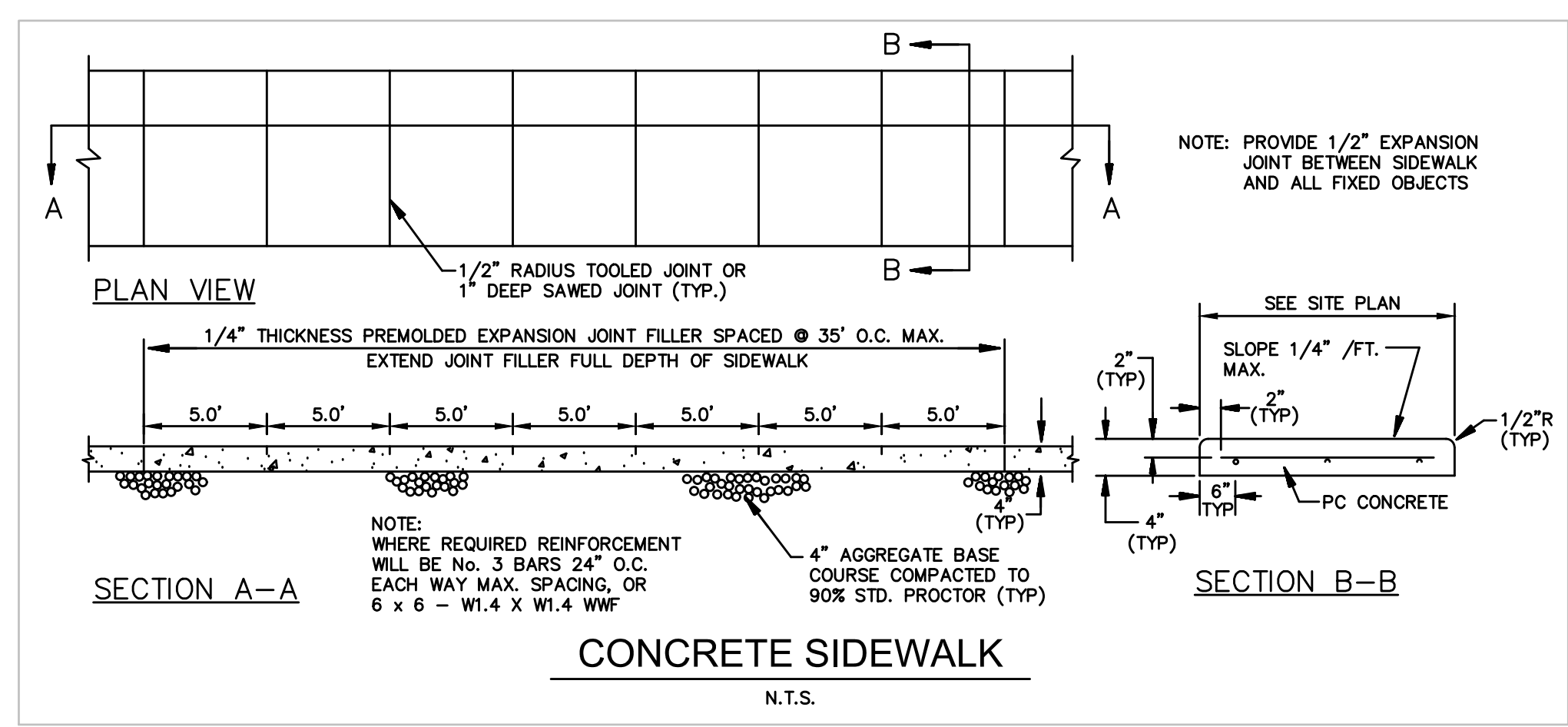
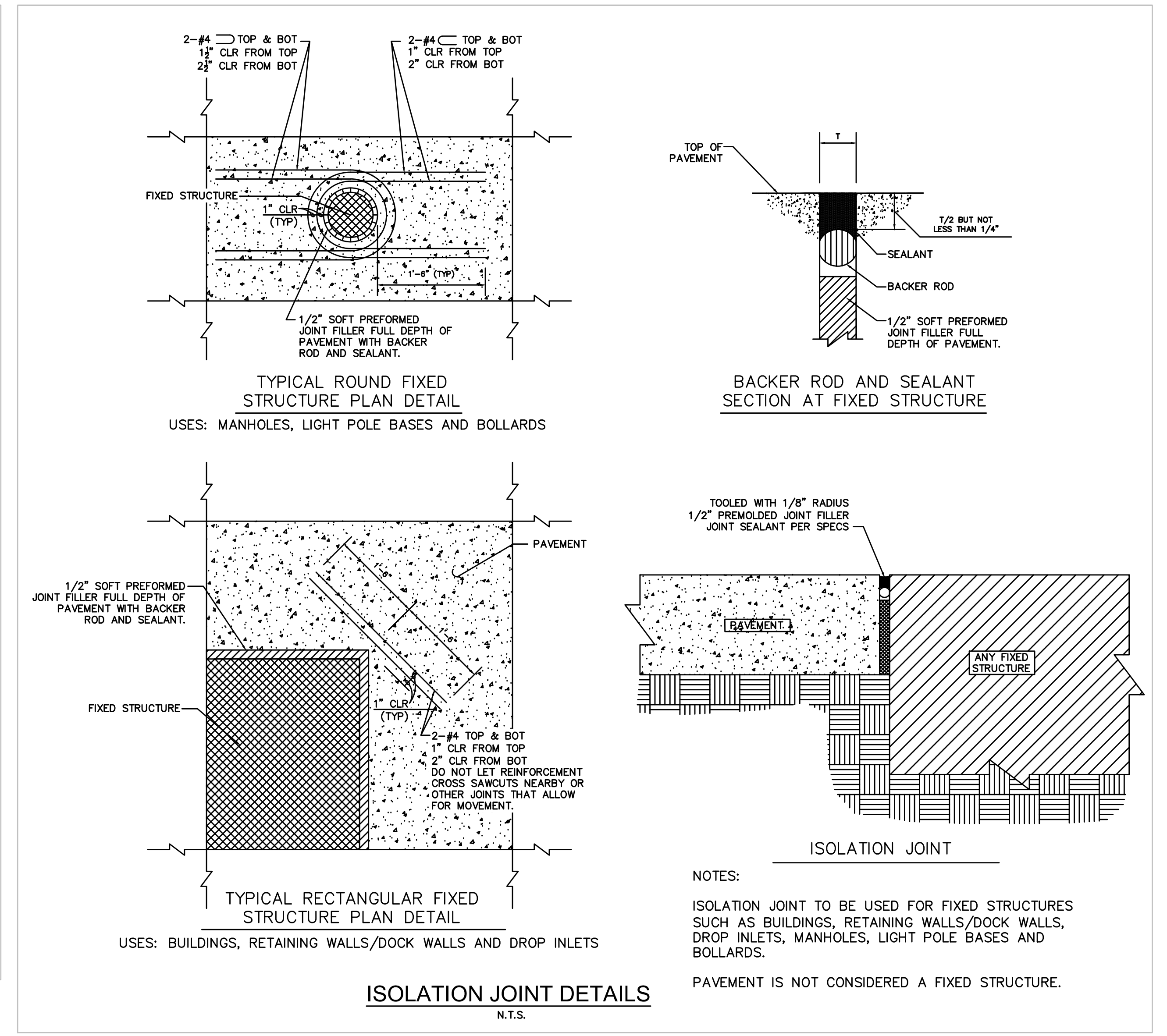
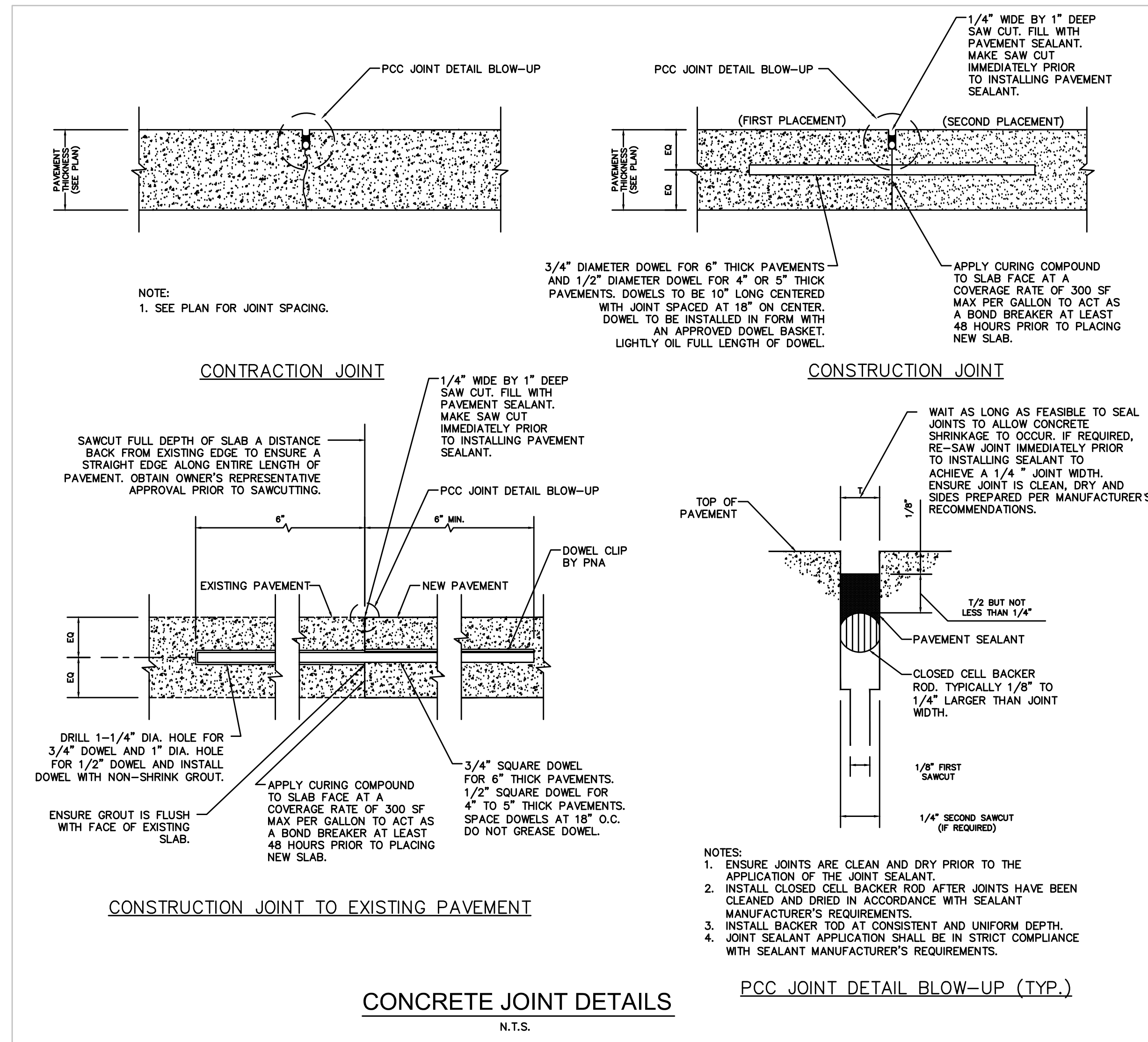
5335 MARKET STREET WILMINGTON, NEW HANOVER COUNTY, NC 28405

STORE NUMBER: NCC 39
 BDDG # 18-111
 PROJECT MANAGER: DON THRAILKILL
 PROJECT CIVIL ENGINEER: JOSHUA COX
 PH: (404) 567-5701
 Ext 105
 DRAWN BY: SC

SHEET TITLE: SITE DETAILS
 DATE: MAY 8, 2019
 ISSUED FOR: OUT TO BID

SHEET NUMBER: **D-2**

USPS, Google - May 21, 2019 - 9:57am P:\Project Drawing Files\Site Department\2018-18-111-Wilmington, NC (Discount Tire)\18-111_Details.dwg - LAYOUT: D-2



Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

NO.	REVISION	DATE	CONSULTANT:

DG
Donaville Group, INC.
3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

NORTH CAROLINA
PROFESSIONAL
SEAL
024555
3/10/19
ENGINEER
JOSHUA W. COX
C-4217

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

DISCOUNT TIRE

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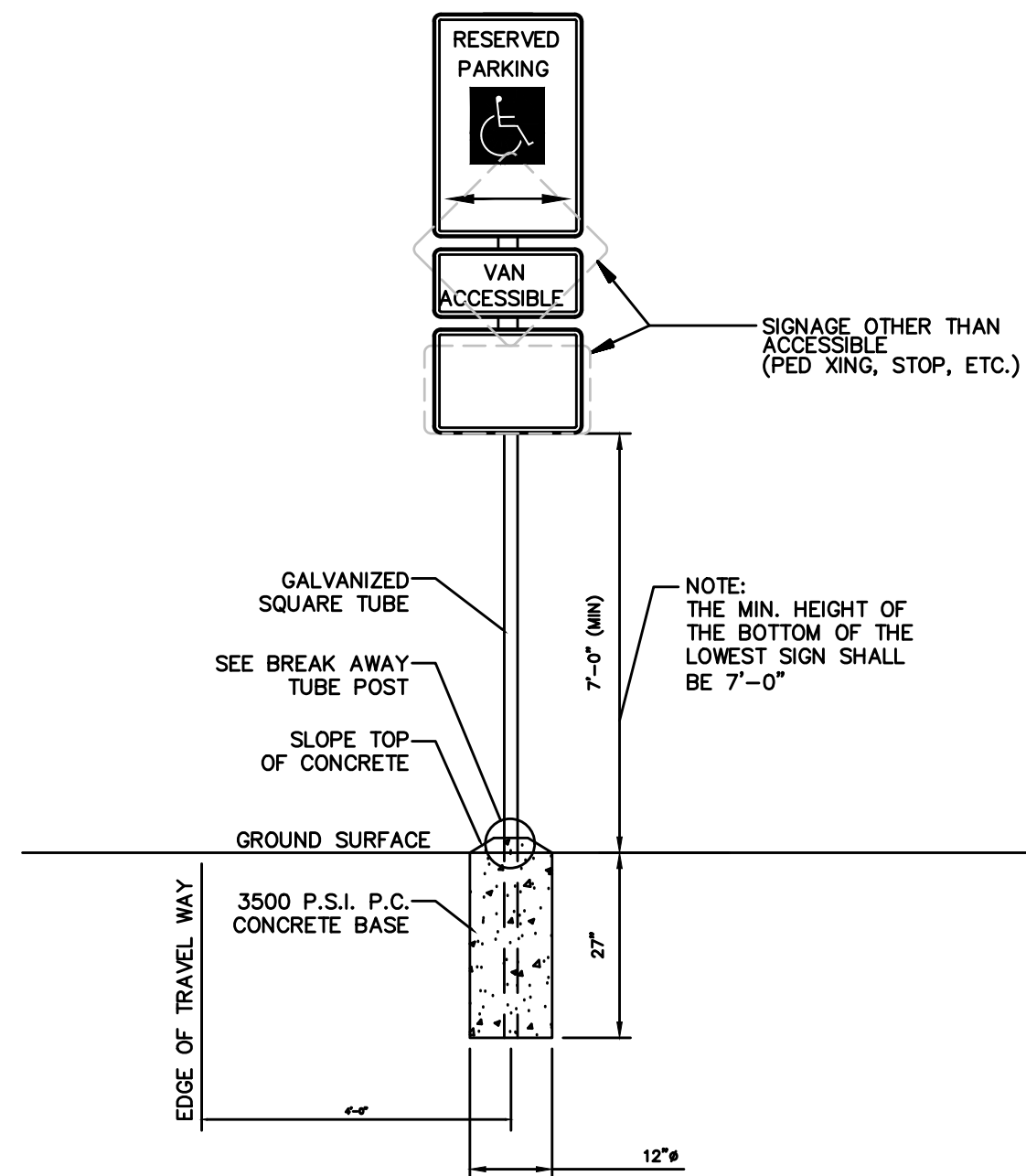
5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405

STORE NUMBER:
NCC 39
BDG # 18-111
PROJECT MANAGER:
DON THRAILKILL
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105
DRAWN BY:
SC

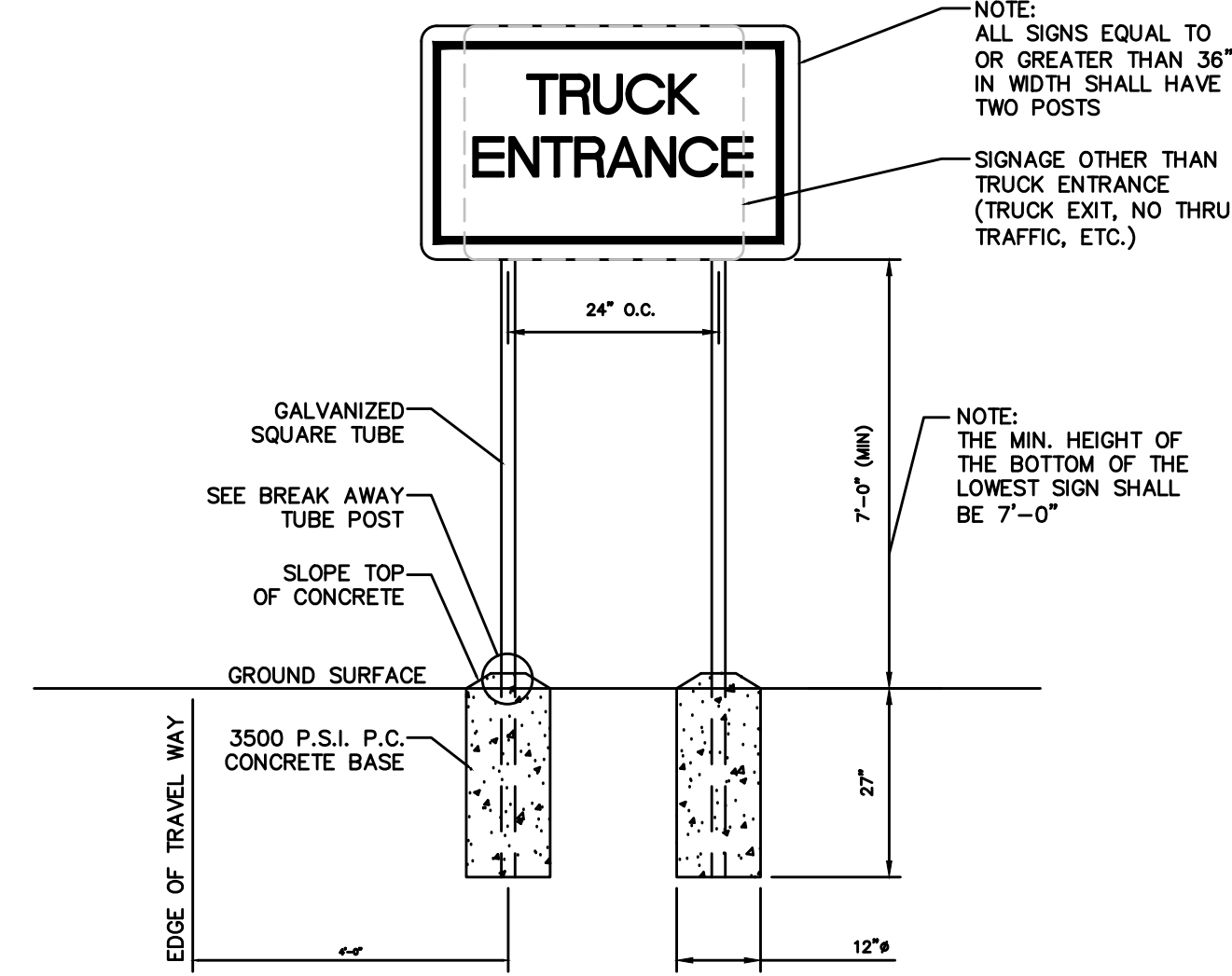
SHEET TITLE:
SITE DETAILS
DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
D-3

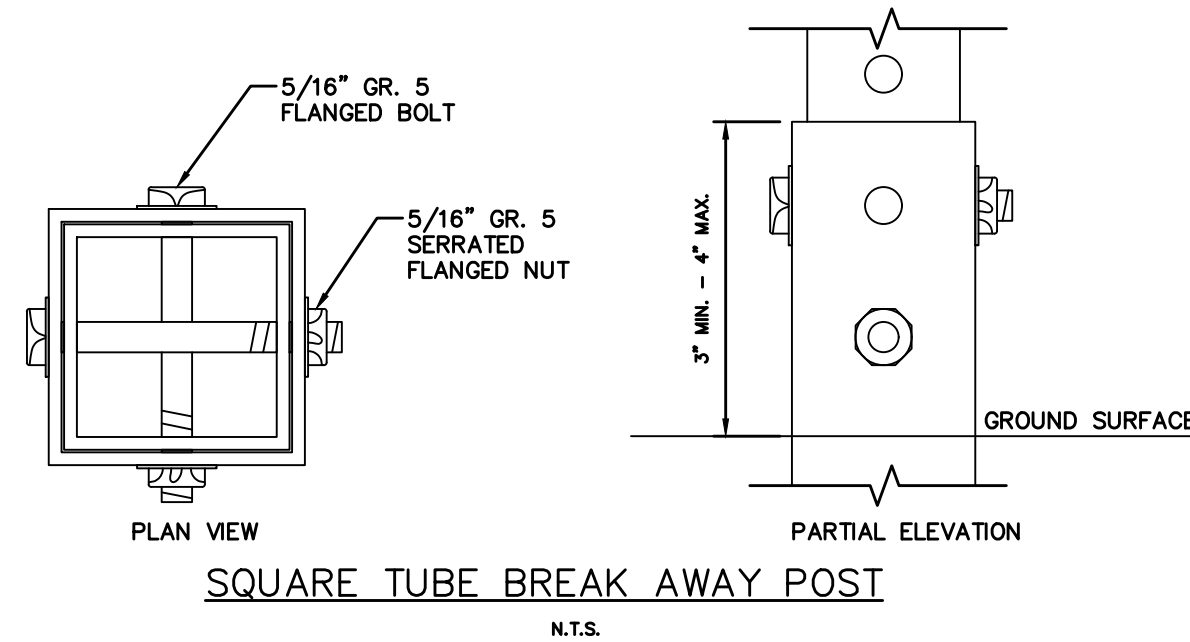
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SINGLE POST
N.T.S.



DOUBLE POST
N.T.S.

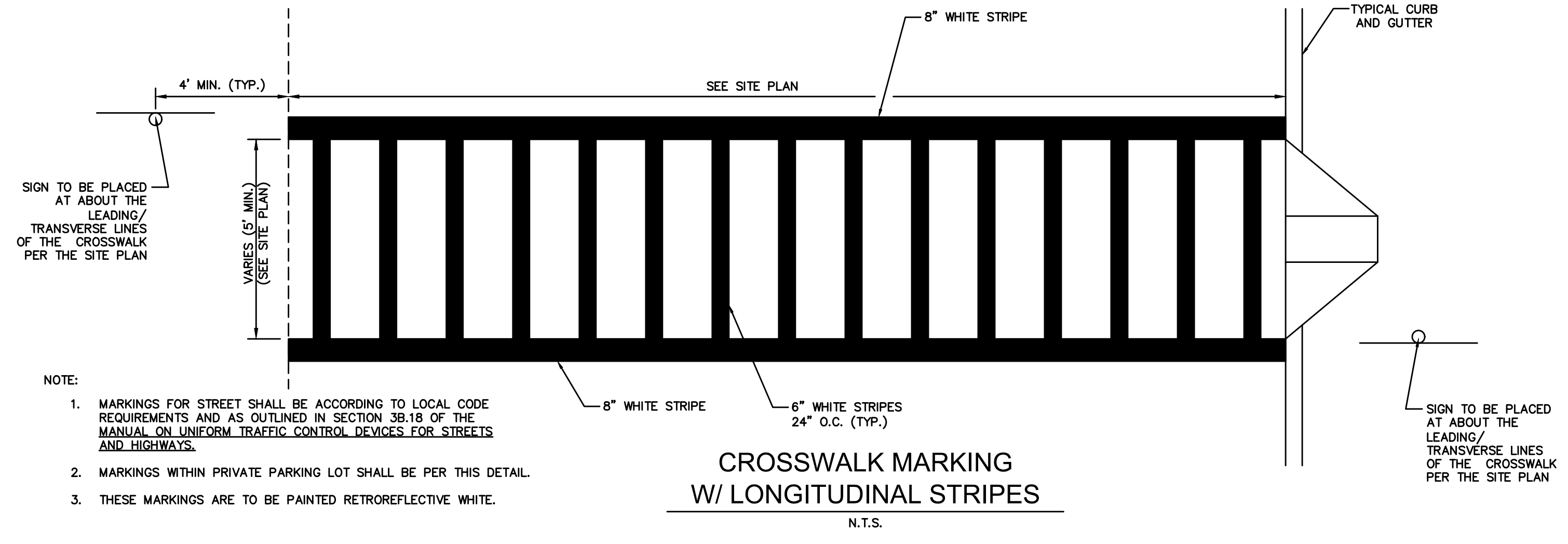


SQUARE TUBE BREAK AWAY POST
N.T.S.

- NOTES:**
- ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - GALVANIZED SQUARE TUBE
POST TUBES - 2"x2"x3/16" 14ga
POST TUBE SHALL MEET ASTM A1011 GRADE 50.
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.
ANCHOR TUBE - 2-1/4"x2-1/4"x3/16" 14ga
HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B.
STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.
THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.

SIGN MOUNTING AND BASE WITHOUT BOLLARD
(USE WHERE SIGN IS WITHIN CURBED ISLAND)

N.T.S.



CROSSWALK MARKING
W/ LONGITUDINAL STRIPES
N.T.S.

- NOTE:**
- MARKINGS FOR STREET SHALL BE ACCORDING TO LOCAL CODE REQUIREMENTS AND AS OUTLINED IN SECTION 3B.18 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
 - MARKINGS WITHIN PRIVATE PARKING LOT SHALL BE PER THIS DETAIL.
 - THESE MARKINGS ARE TO BE PAINTED RETROREFLECTIVE WHITE.

Approved Construction Plan

Name _____ Date _____

Planning _____
Traffic _____
Fire _____



Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
Signed: _____

NO.	REVISION	DATE

DG
Donaville Group, INC.
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FAX: 404-567-5703

NORTH CAROLINA
PROFESSIONAL
SEAL
024855
5/10/19
ENGINEER
JOSHUA W. COX
C-4217

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

DISCOUNT TIRE

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5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405

STORE NUMBER:
NCC 39
BDG # 18-111
PROJECT MANAGER:
DON THRAILKILL
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105
DRAWN BY:
SC

SHEET TITLE:
SITE DETAILS
DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

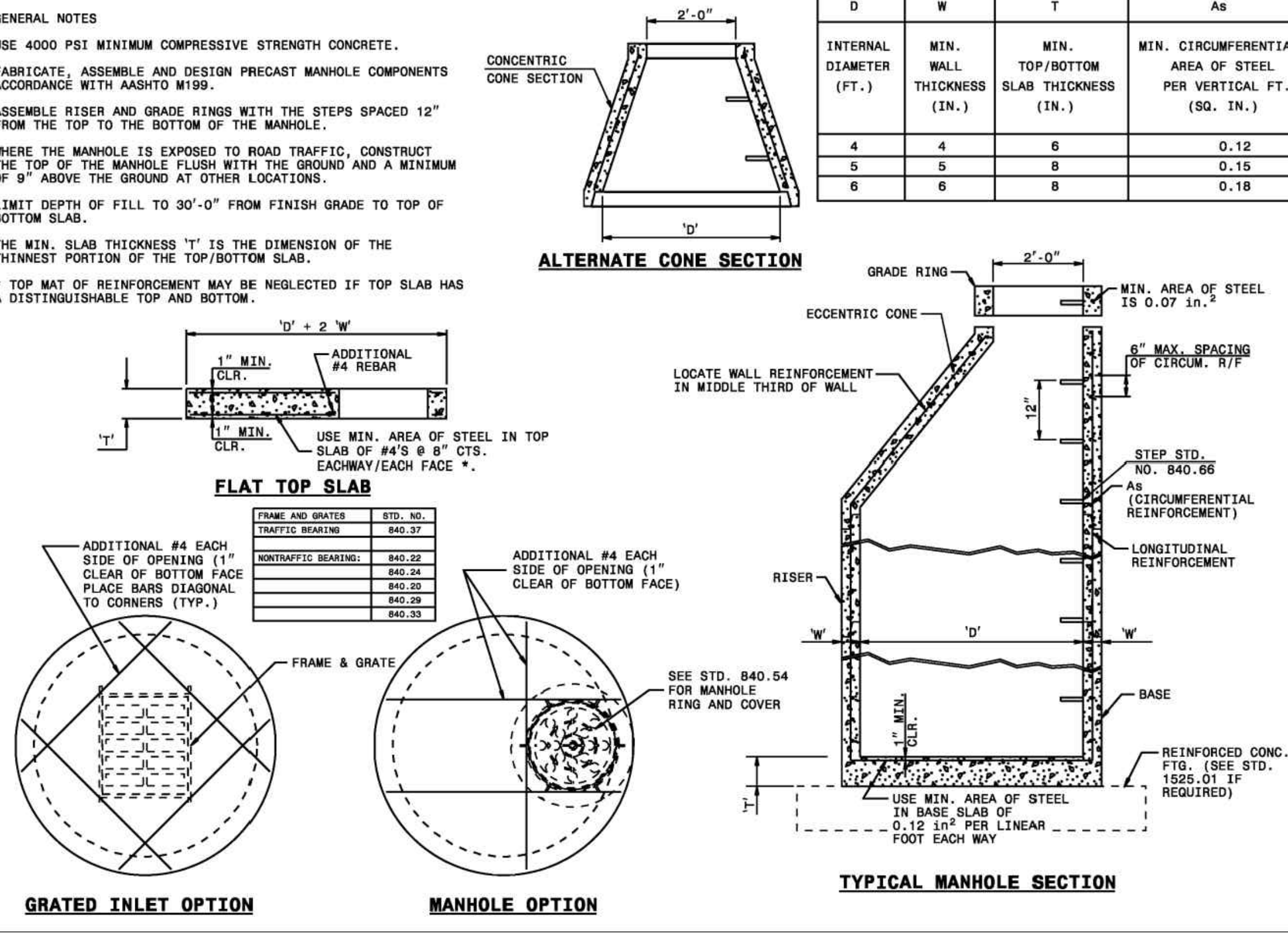
SHEET NUMBER:
D-4

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

GENERAL NOTES
USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH ASHTO M199.
ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.
WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 9" ABOVE THE GROUND AT OTHER LOCATIONS.
LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF BOTTOM SLAB.
THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.
* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.

ENGLISH STANDARD DRAWING FOR
PRECAST MANHOLE 4', 5' AND 6' DIAMETER
12" THRU 48" PIPE

SHEET 1 OF 1
840.52



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

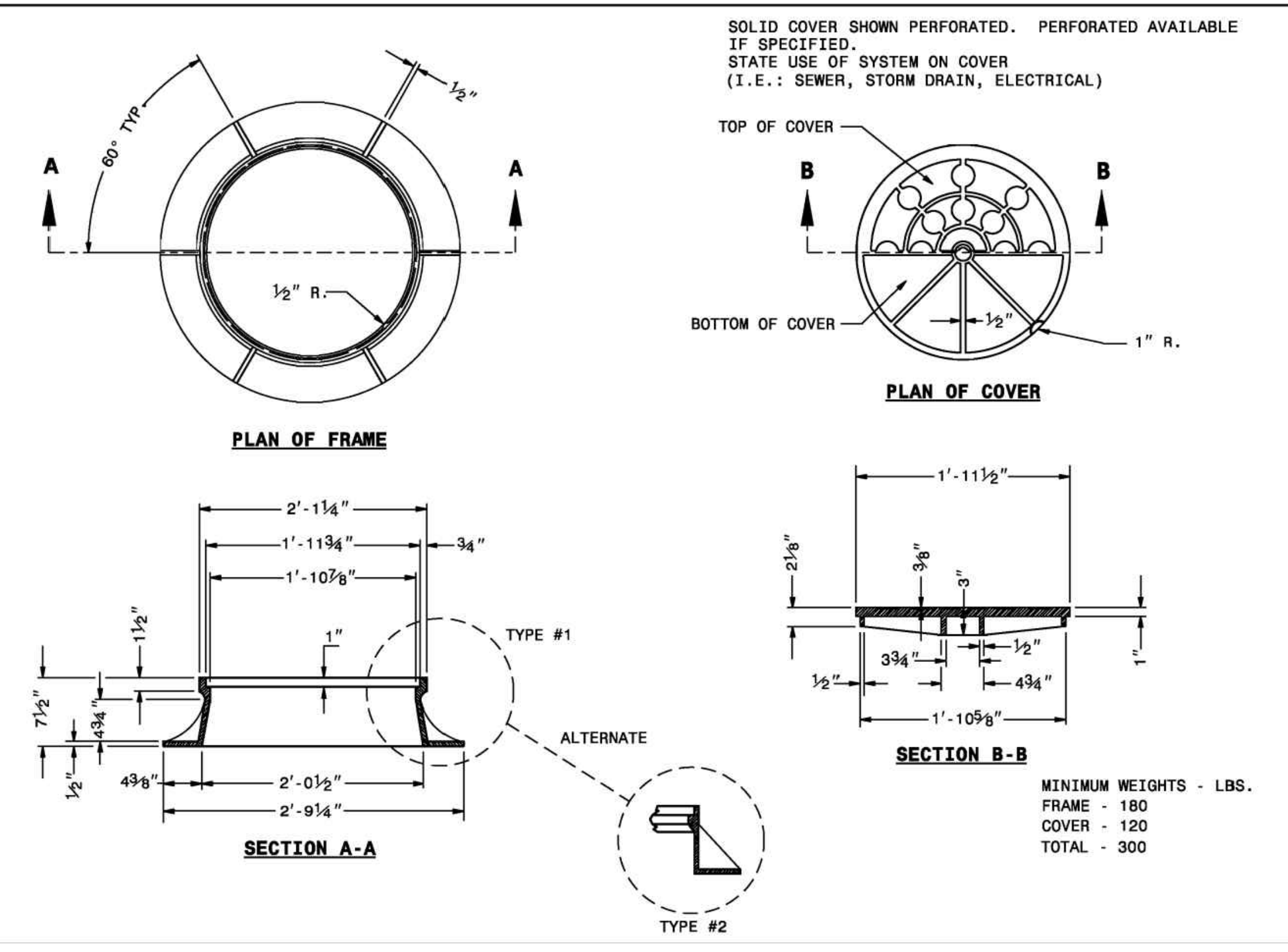
ENGLISH STANDARD DRAWING FOR
PRECAST MANHOLE 4', 5' AND 6' DIAMETER
12" THRU 48" PIPE

SHEET 1 OF 1
840.52

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
MANHOLE FRAME AND COVER

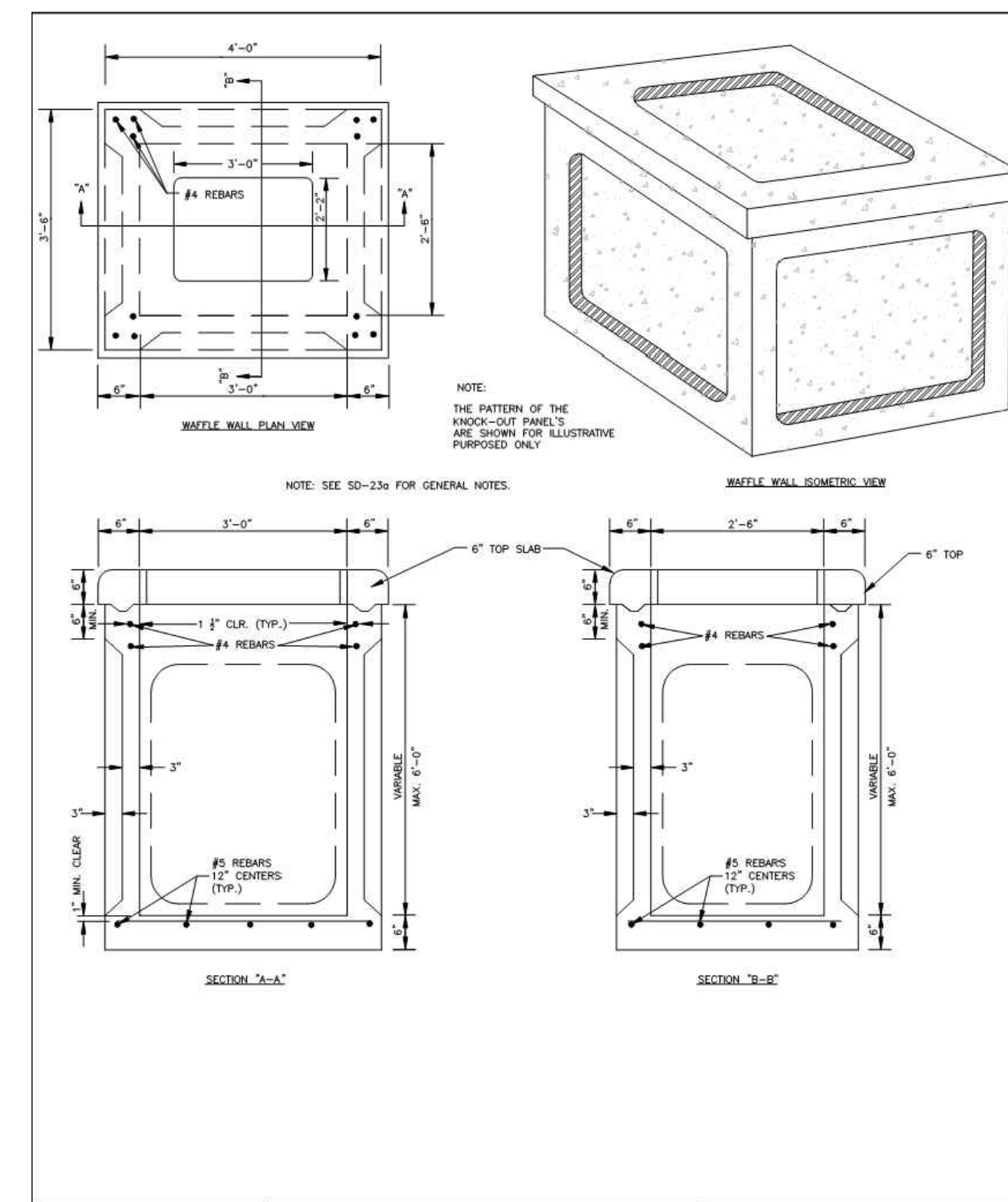
SHEET 1 OF 1
840.54



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
MANHOLE FRAME AND COVER

SHEET 1 OF 1
840.54

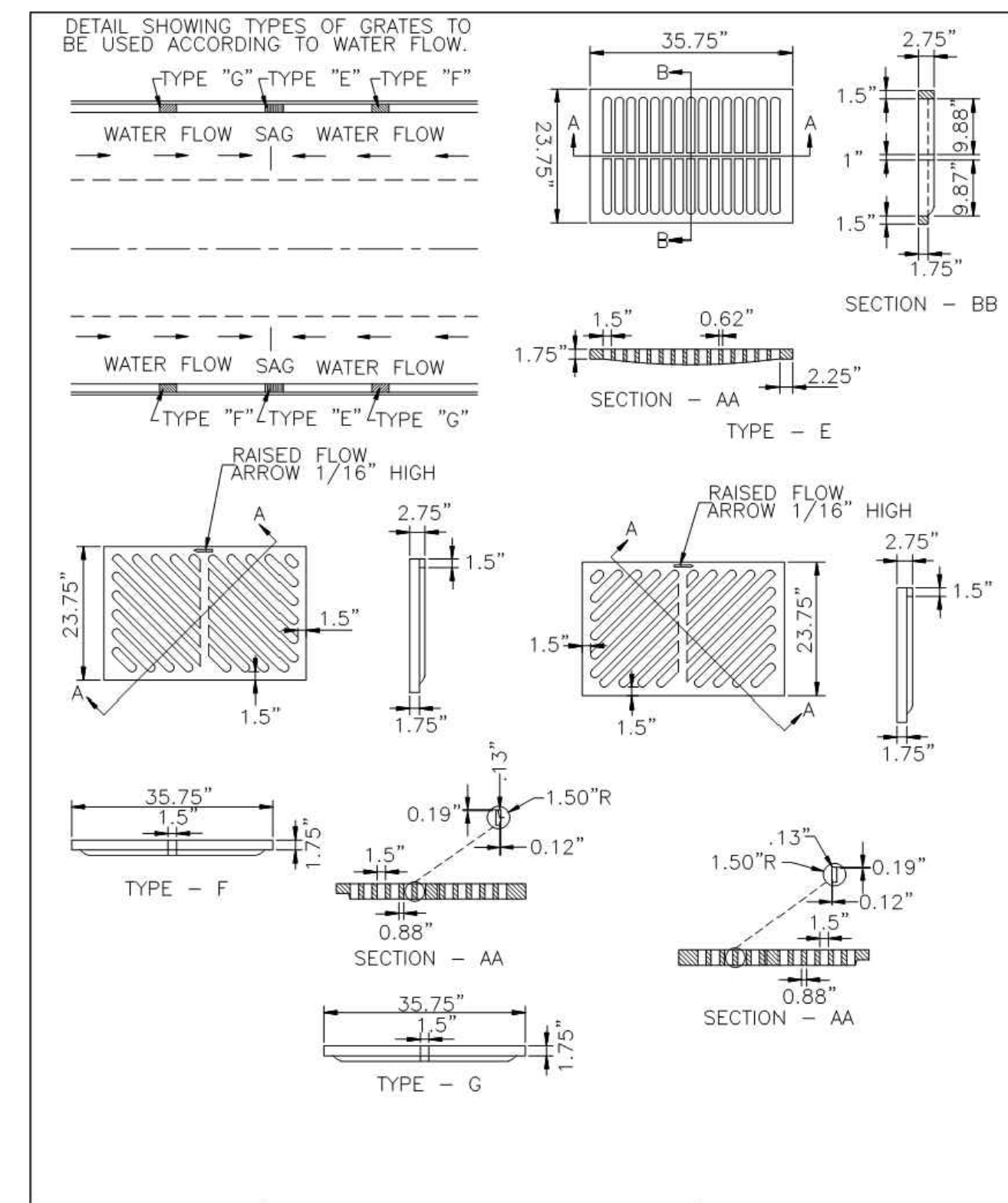


STANDARD DETAIL
PRECAST WAFFLE DRAINAGE STRUCTURE

DATE: 2001
DRAWN BY: JSR/CMR
CHECKED BY: B.P., P.E.
SCALE: NOT TO SCALE

CITY OF WILMINGTON
NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 2-23

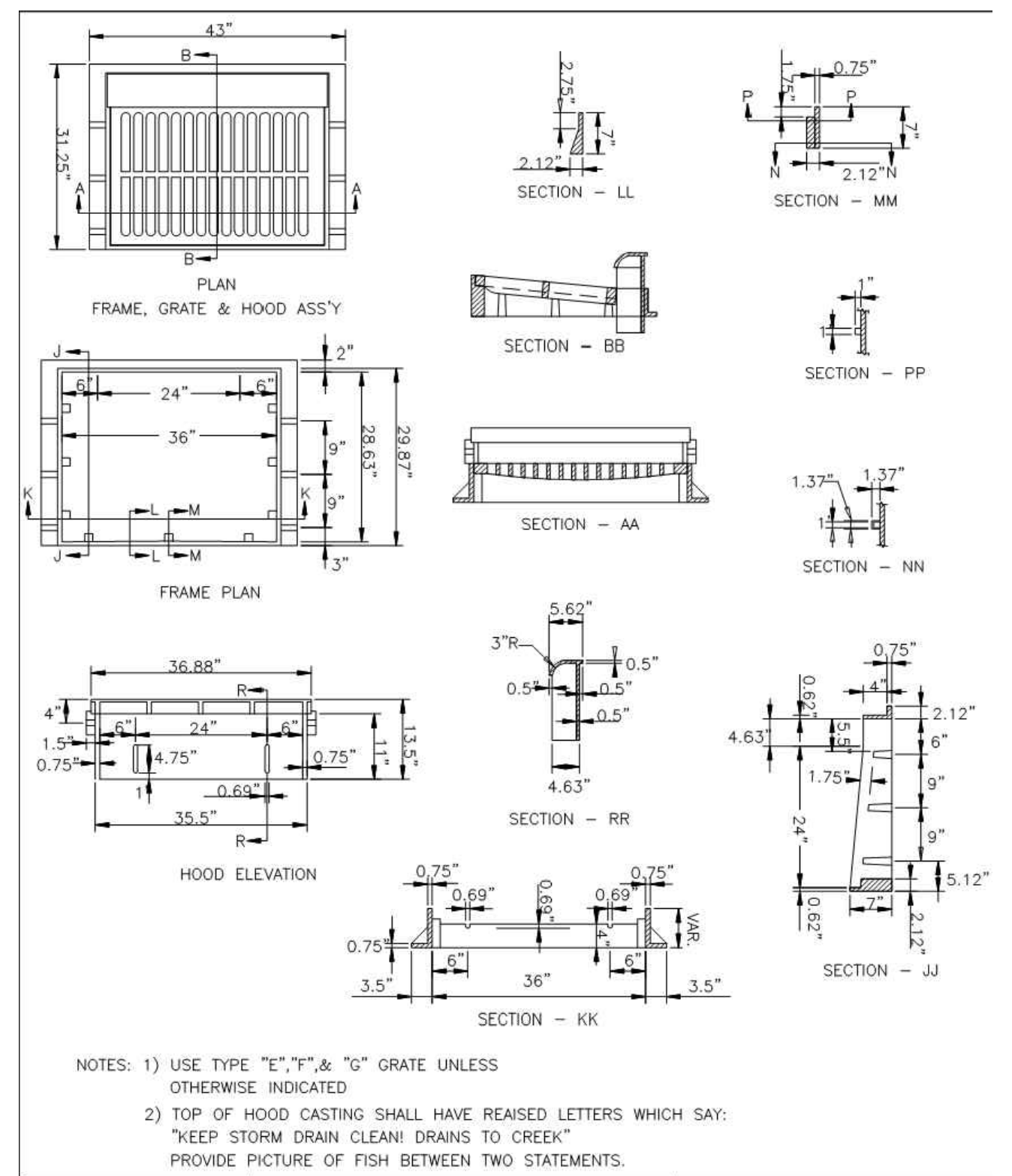


STANDARD DETAIL
CATCH BASIN GRATE FOR 30" HOOD AND GRATE

DATE: 2001
DRAWN BY: JSR/CMR
CHECKED BY: B.P., P.E.
SCALE: NOT TO SCALE

CITY OF WILMINGTON
NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 2-20



STANDARD DETAIL
CATCH BASIN CASTING FOR 30" HOOD AND GRATE

DATE: 2001
DRAWN BY: JSR/CMR
CHECKED BY: B.P., P.E.
SCALE: NOT TO SCALE

CITY OF WILMINGTON
NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 2-19

GENERAL NOTES:

- * USE 4000 PSI CONCRETE, PROVIDE FOR H-20 TRAFFIC LOADING.
- * PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185.
- * LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 6'-0".
- * PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
- * SAW CUT, CORE DRILL OR FORM OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. SEAL OPENINGS WITH HYDRAULIC CEMENT.
- * ALL ELEMENTS PRECAST TO MEET ASTM C913.
- * SET ON 6" WASHED STONE
- * FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
- * PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH ASHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
- * WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
- * SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, ASHTO M-19B, TYPE B - BUTYL RUBBER.
- * LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DIMENSIONS OF 2'-6" x 3'-0".
- * USE FRAME AND GRATE AS PER SD-19.
- * GROUT INVERT TO PROVIDE SMOOTH FLOW

STANDARD DETAIL
PRECAST WAFFLE DRAINAGE STRUCTURE
GENERAL NOTES

DATE: 2001
DRAWN BY: JSR/CMR
CHECKED BY: B.P., P.E.
SCALE: NOT TO SCALE

CITY OF WILMINGTON
NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 2-23a

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Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

NO.	REVISION	DATE	CONSULTANT:

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SEAL
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ENGINEER
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DEVELOPER:
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BDG # 18-111
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DON THRAILKILL

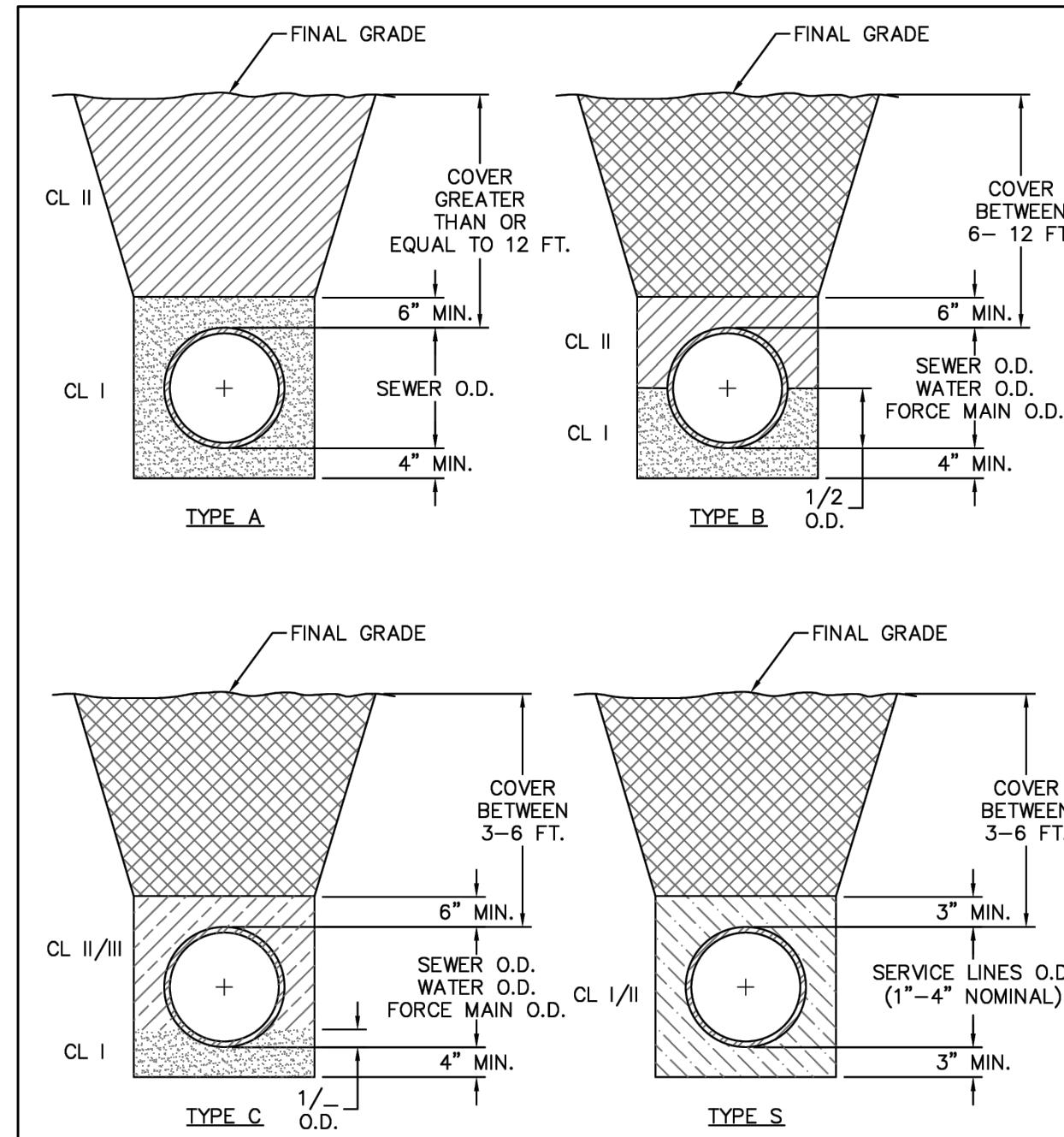
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105

DRAWN BY:
SC

SHEET TITLE:
GRADING
DETAILS

DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
D-5

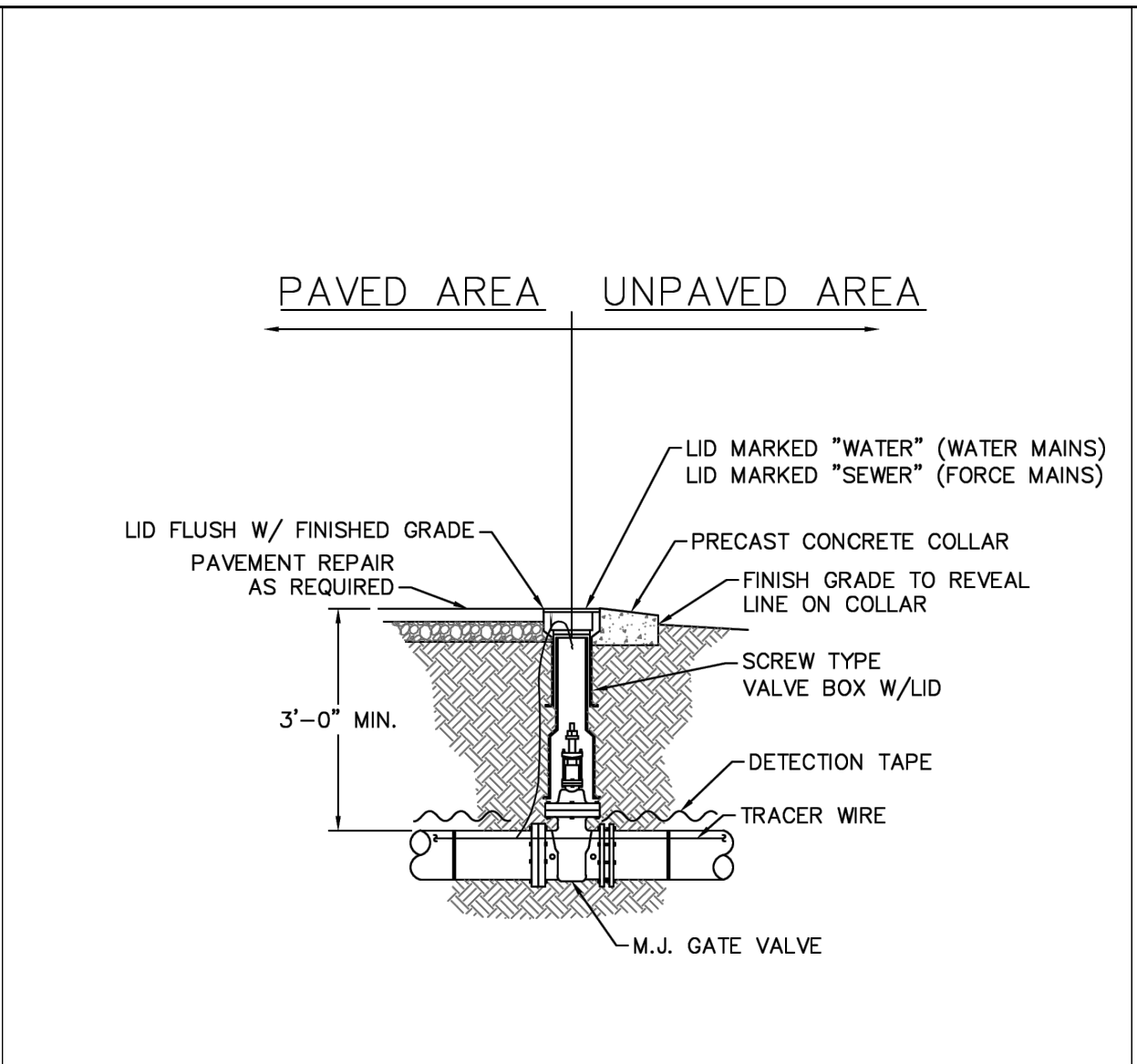


COMPACTION NOTES:
 1. ALL ZONES: 95% STD EFFORT PER ASTM D698, EXCEPT AS STATED IN COMPACTION NOTE 2.
 2. 12" SUBGRADE UNDER PAVEMENT: 98% STD EFFORT PER ASTM D698.

DETAIL: PIPE EMBEDMENT TYPES
 SCALE: NOT TO SCALE
 CFP/UA REV. No: 1 01/01/19

CAPE FEAR PUBLIC UTILITY AUTHORITY
 235 GOVERNMENT CENTER DRIVE
 WILMINGTON, NC 28403
 OFFICE: (910)332-6560

DETAIL NO: WS-4
 SHEET NO: -

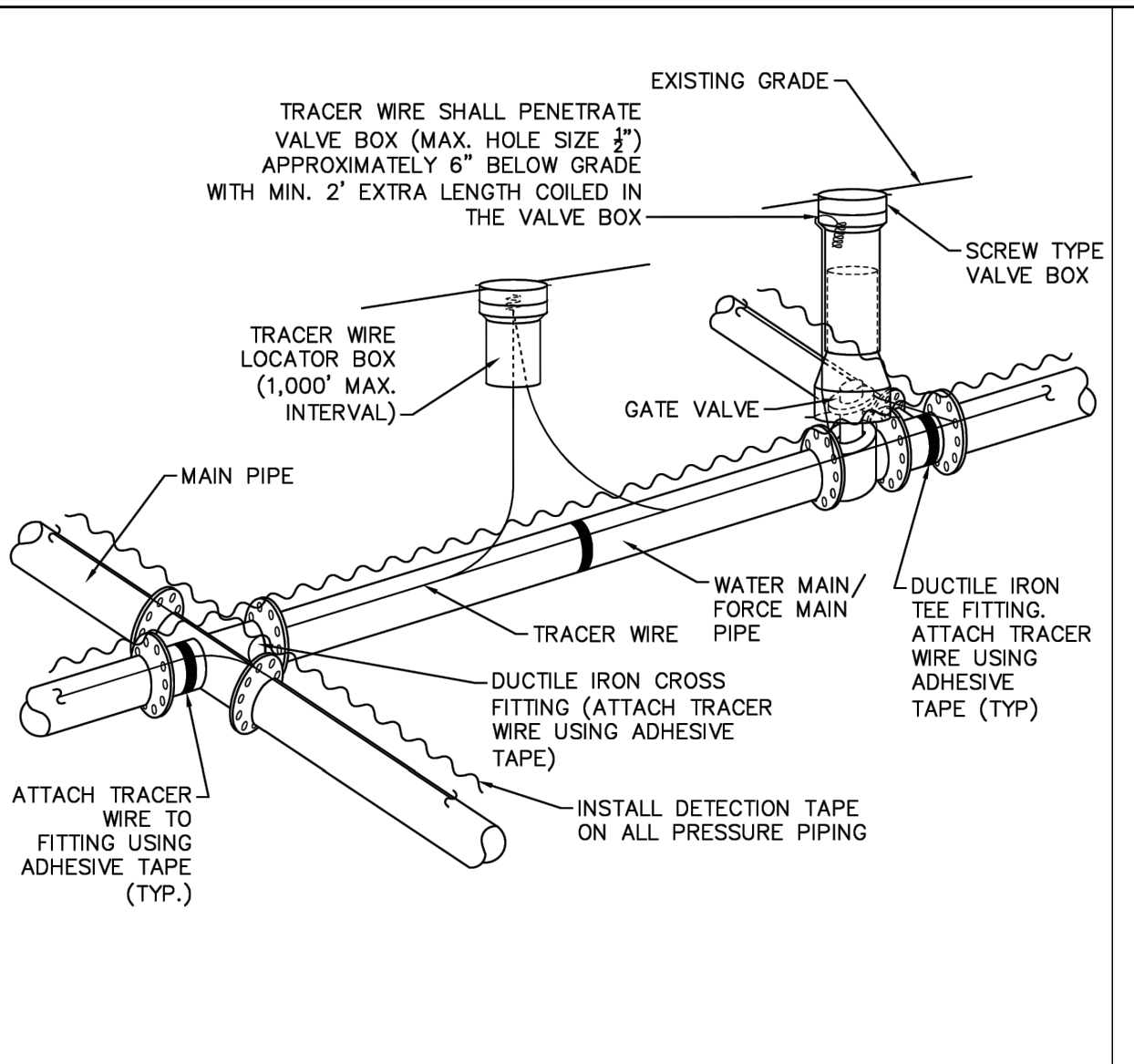


NOTES:
 1. TRACER WIRE SHALL PENETRATE VALVE BOX THROUGH DRILLED HOLE APPROX. 6" BELOW GRADE WITH MINIMUM 2'-FEET EXTRA LENGTH COILED IN THE VALVE BOX. SEE WS-6.

DETAIL: VALVE DETAIL
 SCALE: NOT TO SCALE
 CFP/UA REV. No: 1 01/01/19

CAPE FEAR PUBLIC UTILITY AUTHORITY
 235 GOVERNMENT CENTER DRIVE
 WILMINGTON, NC 28403
 OFFICE: (910)332-6560

DETAIL NO: WS-5
 SHEET NO: -

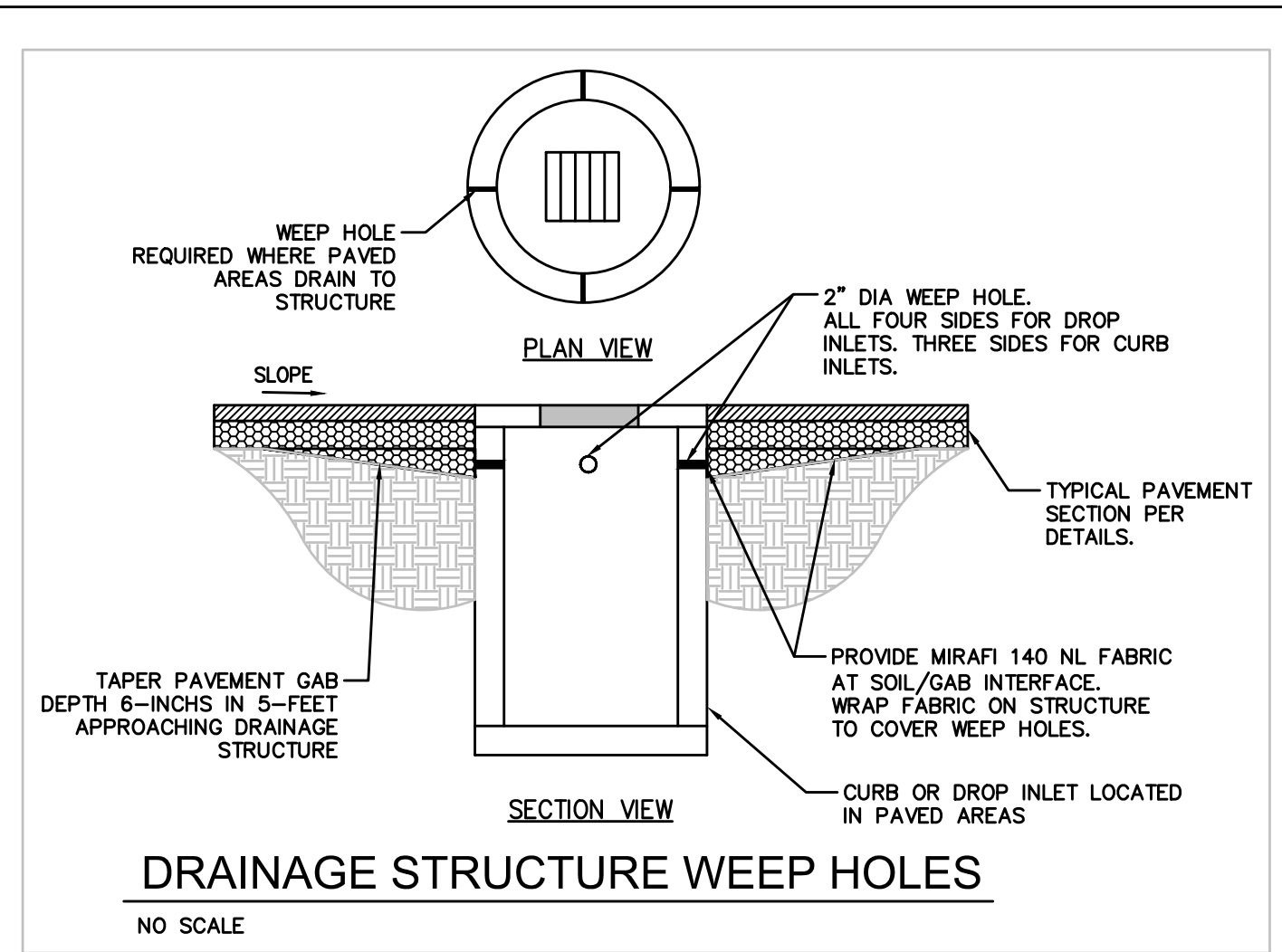


NOTES:
 1. TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION AND DIRECT BURY RATING.
 2. WIRE SHALL BE STRAPPED TO ALL PVC PIPING WITH ADHESIVE TAPE AT 12 FOOT INTERVALS.
 3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH ADHESIVE TAPE.
 4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KITS.

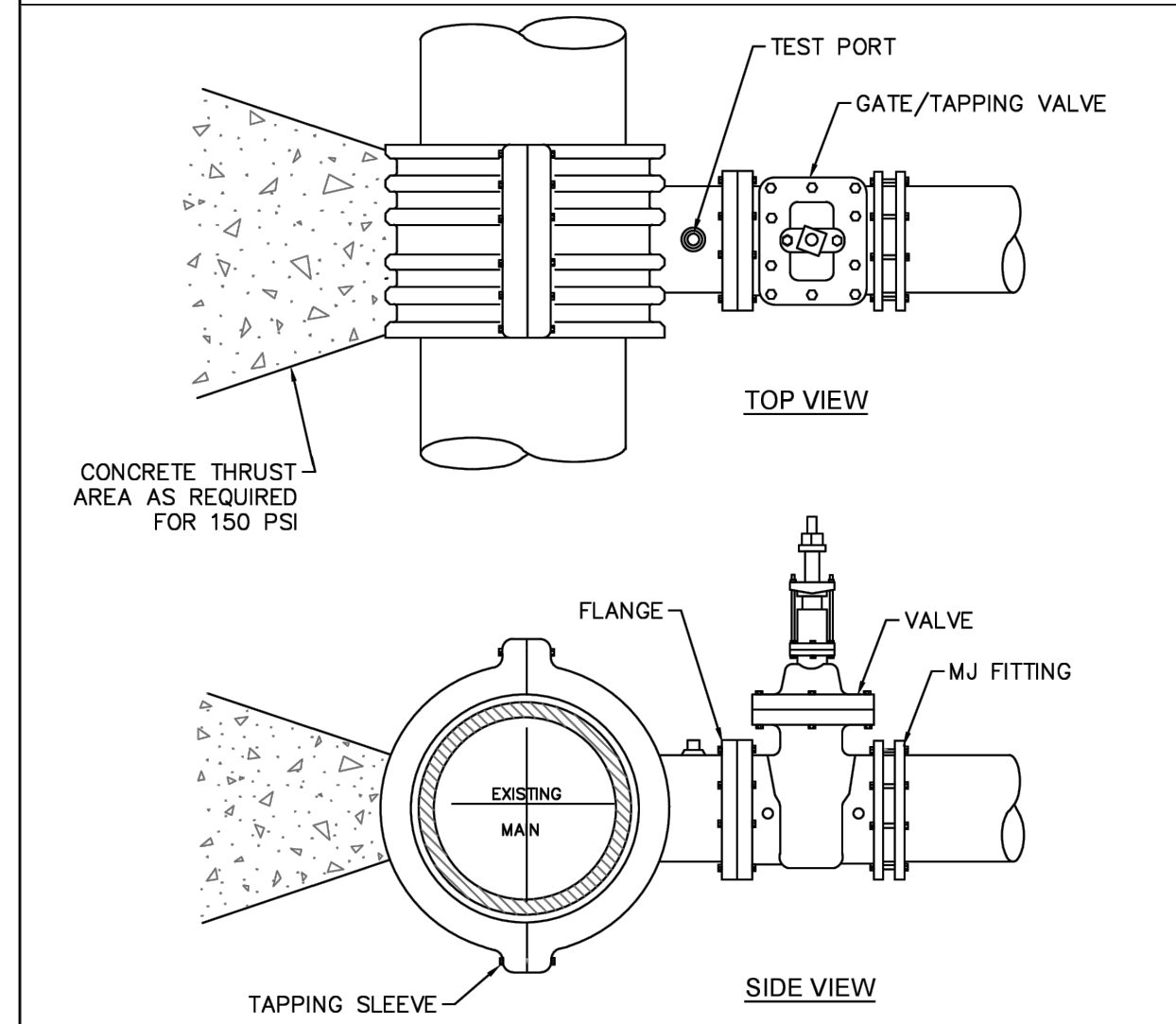
DETAIL: TRACER WIRE DETAIL
 SCALE: NOT TO SCALE
 CFP/UA REV. No: 1 01/01/19

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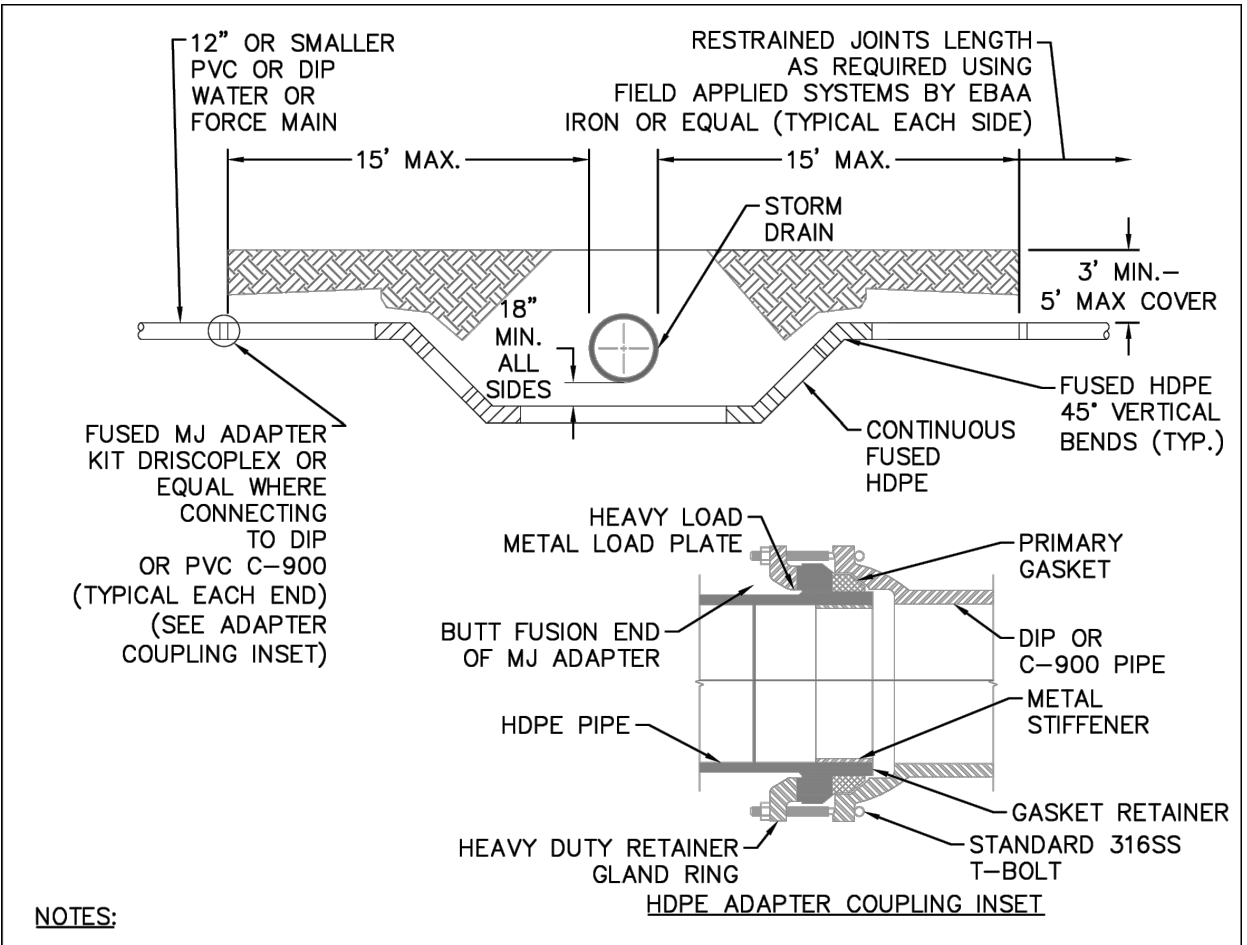
DETAIL NO: WS-6
 SHEET NO: -



DRAINAGE STRUCTURE WEEP HOLES
 NO SCALE



NOTES:
 1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
 2. TEST PRESSURE SHALL NOT BE APPLIED FOR A MINIMUM OF 7 DAYS AFTER THRUST BLOCK PLACEMENT.
 3. BRANCH SHALL NOT EQUAL RUN DIAMETER UNLESS APPROVED BY CFP/UA ENGINEERING.
 4. TAPPING SLEEVE & VALVE TO BE HYDROSTATICALLY TESTED AT 150 PSI FOR 15 MINUTES WITH ZERO PRESSURE LOSS.

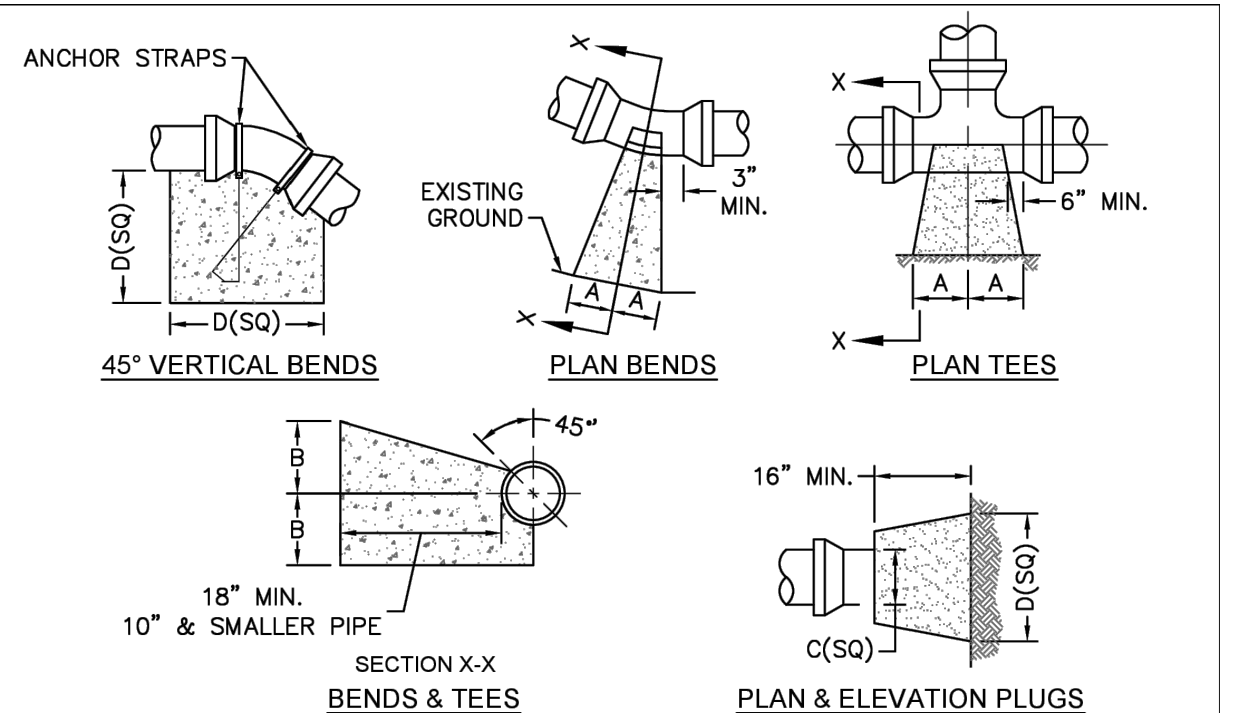


NOTES:
 1. MAY BE USED AS AN ALTERNATIVE TO CFP/UA STANDARD DETAIL WS-10 (STORM CROSSING) WITH APPROVAL BY CFP/UA. SHALL NOT BE USED FOR DITCH CROSSINGS.
 2. NO SERVICE CONNECTIONS, VALVES, TEES, ADDITIONAL FITTINGS OR APPURTENANCES SHALL BE INSTALLED ON HDPE.
 3. 45° VERTICAL BENDS MAY BE ELIMINATED IF OFFSET CAN BE ACHIEVED BY DEFLECTING PIPE WITHIN MANUFACTURER'S MAXIMUM BENDING RADIUS.
 4. HDPE SHALL BE A MINIMUM OF DR-11 (200 PSI), DIPS, PE 4710, BLUE POTABLE WATER MAINS AND GREEN SEWER FORCE MAINS. INSTALLATIONS IN PUBLIC RIGHT-OF-WAY ARE SUBJECT TO NC DOT REQUIREMENTS, WHICH MAY INCLUDE USE OF DR-9 HDPE.
 5. 45° VERTICAL BENDS MAY BE FUSED BY SUPPLIER PRIOR TO DELIVERY TO SITE. IF THE ASSEMBLY IS FUSED ONSITE, IT MUST BE PRESSURE TESTED.

DETAIL: PRESSURE MAIN AND STORM DRAIN CROSSING-HDPE
 SCALE: NOT TO SCALE
 CFP/UA REV. No: 1 01/01/19

CAPE FEAR PUBLIC UTILITY AUTHORITY
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 WILMINGTON, NC 28403
 OFFICE: (910)332-6560

DETAIL NO: WS-11
 SHEET NO: -



SIZE	90° BENDS		45° BENDS		22-1/2° BENDS		TEES/PLUGS		45° VERT. BENDS
	A	B	A	B	A	B	A	B	
3"	8"	6"	5"	6"	3"	7"	6"	8"	27"
4"	8"	9"	5"	8"	3"	11"	6"	9"	28"
6"	14"	11"	9"	9"	8"	8"	12"	9"	36"
8"	16"	16"	12"	12"	10"	13"	14"	13"	42"
10"	18"	22"	15"	14"	14"	16"	18"	15"	50"
12"	20"	28"	18"	17"	16"	16"	22"	18"	62"
14"	26"	29"	21"	19"	18"	18"	26"	20"	72"
16"	33"	29"	25"	21"	20"	21"	32"	21"	83"
18"	40"	30"	28"	24"	22"	23"	36"	24"	88"

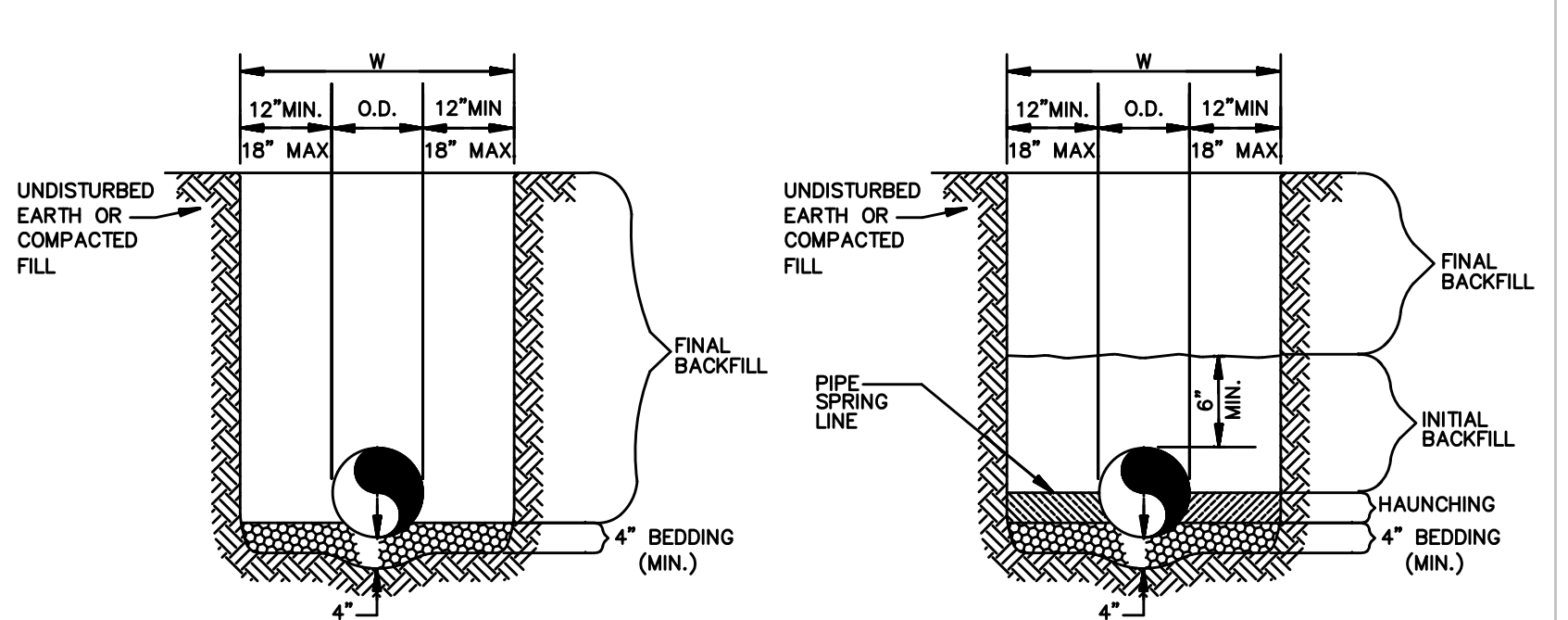
NOTES:
 1. THRUST BLOCKING IS NOT PERMITTED EXCEPT IN SPECIAL INSTALLATIONS WHERE DESIGNED BY ENGINEER AND APPROVED BY CFP/UA.
 2. ALLOW 7-DAY MINIMUM CONCRETE CURE TIME BEFORE PLACING LOAD ON THRUST BLOCK.
 3. BASED ON 160 PSI TEST PRESSURE AND 2,000 PSF SOIL BEARING CAPACITY.
 4. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
 5. PIPE & FITTINGS TO BE WRAPPED IN 10 MIL PLASTIC PRIOR TO THRUST BLOCK BEING POURED.

DETAIL: THRUST BLOCK
 SCALE: NOT TO SCALE
 CFP/UA REV. No: 1 01/01/19

CAPE FEAR PUBLIC UTILITY AUTHORITY
 235 GOVERNMENT CENTER DRIVE
 WILMINGTON, NC 28403
 OFFICE: (910)332-6560

DETAIL NO: WS-13
 SHEET NO: -

STORM SEWER AND UTILITY BEDDING NOTE:
 THIS SITE HAS POTENTIAL FOR HIGH GROUNDWATER FOR UTILITY PLACEMENTS IN EXCAVATIONS BELOW 3.5'. IF ENCOUNTERED DURING CONSTRUCTION, THE BEDDING SHALL BE INCREASED UP TO 12-INCHES OF HDOT #57 STONE AT THE DIRECTION OF THE OWNER'S GEOTECHNICAL TESTING FIRM TO PROVIDE A STABLE BEARING SURFACE.



REINFORCED CONCRETE PIPE (RCP) AND SPIRAL RIB PIPE SMALLER THAN 60"Ø
 N.T.S.

ALL OTHER PIPES INCLUDING SPIRAL RIB PIPE 60"Ø AND LARGER
 N.T.S.

GENERAL NOTES

- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B WORKED BY HAND. CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
- INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
- FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
- FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
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Date: _____ Permit # _____

Signed: _____

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 DULUTH, GA 30096
 PHONE: 404-567-5701
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 SEAL 024555
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DEVELOPER:
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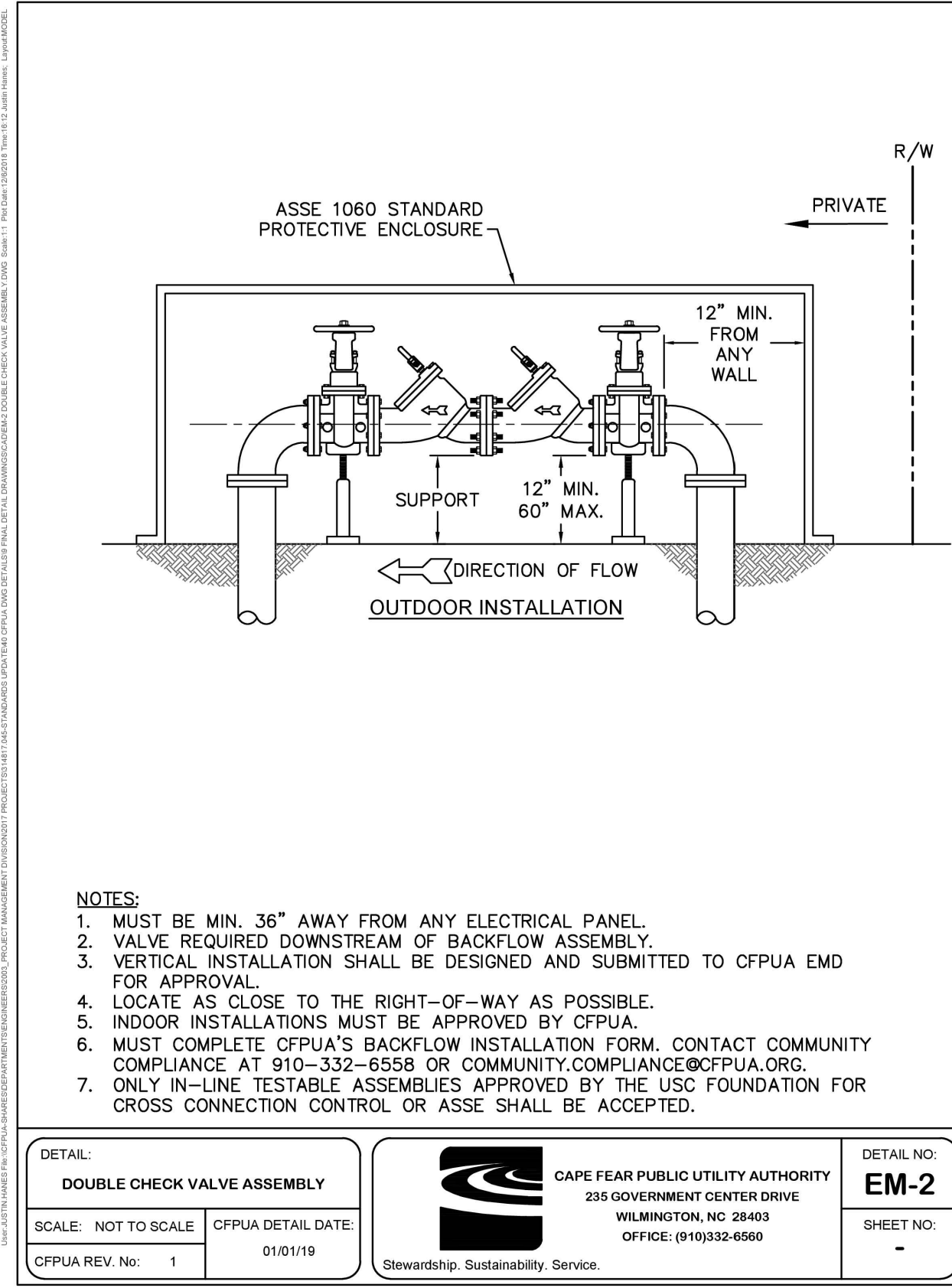
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 SC

SHEET TITLE:
GRADING AND UTILITY DETAILS
 DATE: MAY 8, 2019
 ISSUED FOR: OUT TO BID

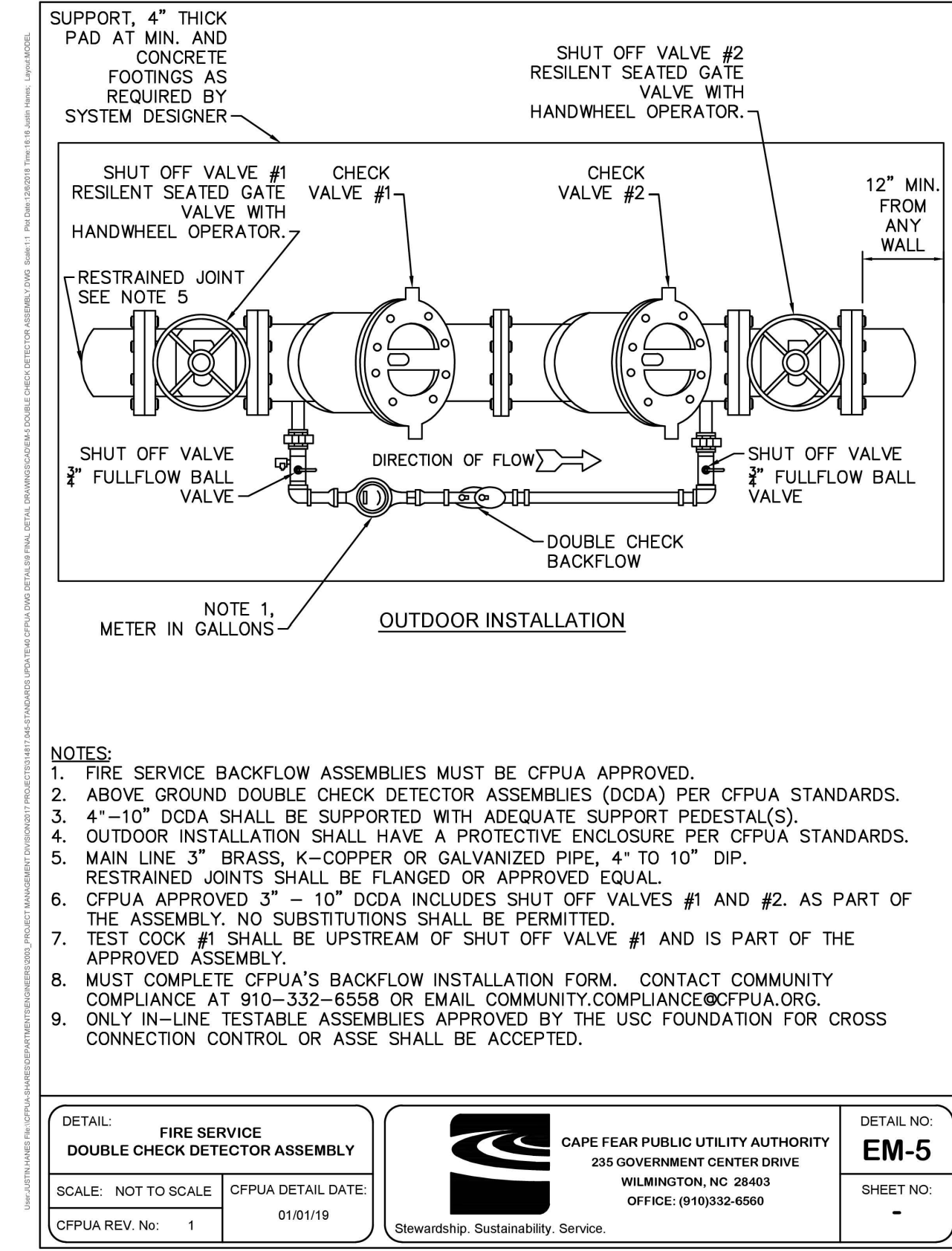
SHEET NUMBER:
D-6

USPR_GenArch - May 21, 2019 - 9:57am P:\Project Drawing Files\Site Department\2018\18-111_Detalls.dwg - LAYOUT: D-6



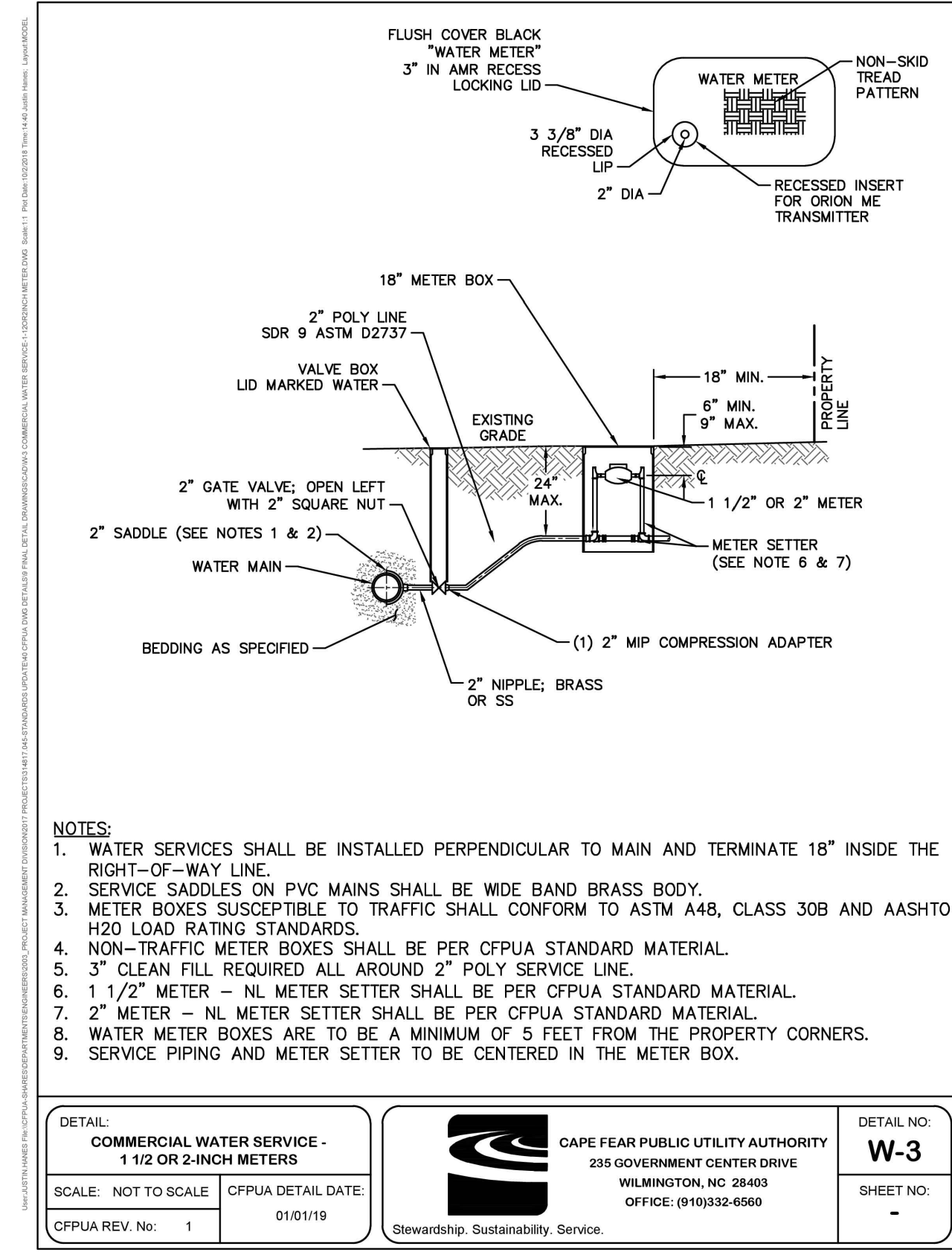
- NOTES:**
- MUST BE MIN. 36" AWAY FROM ANY ELECTRICAL PANEL.
 - VALVE REQUIRED DOWNSTREAM OF BACKFLOW ASSEMBLY.
 - VERTICAL INSTALLATION SHALL BE DESIGNED AND SUBMITTED TO CFPUA EMD FOR APPROVAL.
 - LOCATE AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE.
 - INDOOR INSTALLATIONS MUST BE APPROVED BY CFPUA.
 - MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR COMMUNITY.COMPLIANCE@CFPUA.ORG.
 - ONLY IN-LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

<p>DETAIL: DOUBLE CHECK VALVE ASSEMBLY</p> <p>SCALE: NOT TO SCALE CFPUA REV. No: 1</p>	<p>CFPUA DETAIL DATE: 01/01/19</p>	<p>CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560</p>	<p>DETAIL NO: EM-2</p> <p>SHEET NO.: -</p>
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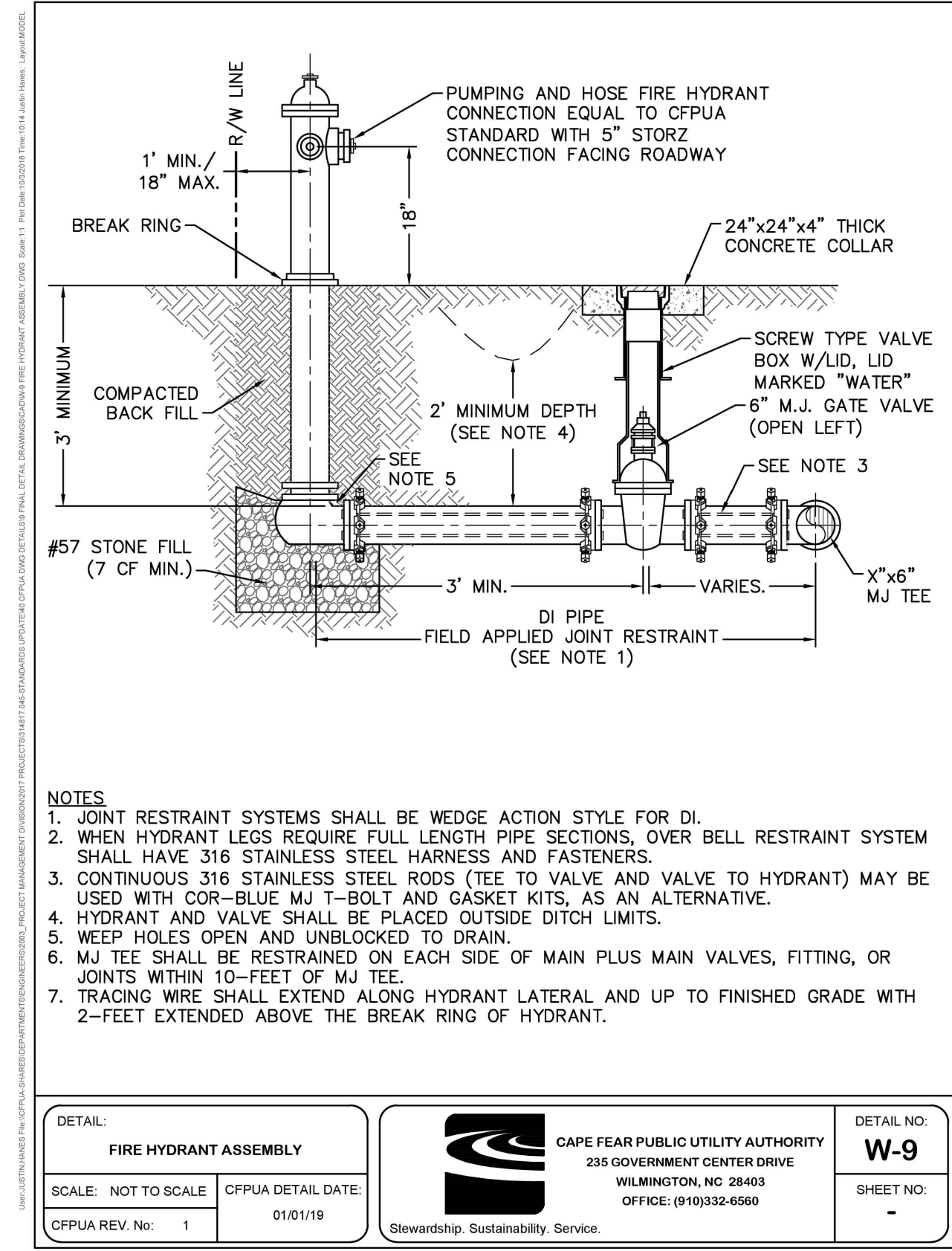
- NOTES:**
- FIRE SERVICE BACKFLOW ASSEMBLIES MUST BE CFPUA APPROVED.
 - ABOVE GROUND DOUBLE CHECK DETECTOR ASSEMBLIES (DCCA) PER CFPUA STANDARDS.
 - 4"-10" DCCA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTALS.
 - OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE PER CFPUA STANDARDS.
 - MAIN LINE 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE FLANGED OR APPROVED EQUAL.
 - CFPUA APPROVED 3" - 10" DCCA INCLUDES SHUT OFF VALVE #1 AND #2. AS PART OF THE ASSEMBLY, NO SUBSTITUTIONS SHALL BE PERMITTED.
 - TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
 - MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR EMAIL COMMUNITY.COMPLIANCE@CFPUA.ORG.
 - ONLY IN-LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

<p>DETAIL: FIRE SERVICE DOUBLE CHECK DETECTOR ASSEMBLY</p> <p>SCALE: NOT TO SCALE CFPUA REV. No: 1</p>	<p>CFPUA DETAIL DATE: 01/01/19</p>	<p>CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560</p>	<p>DETAIL NO: EM-5</p> <p>SHEET NO.: -</p>
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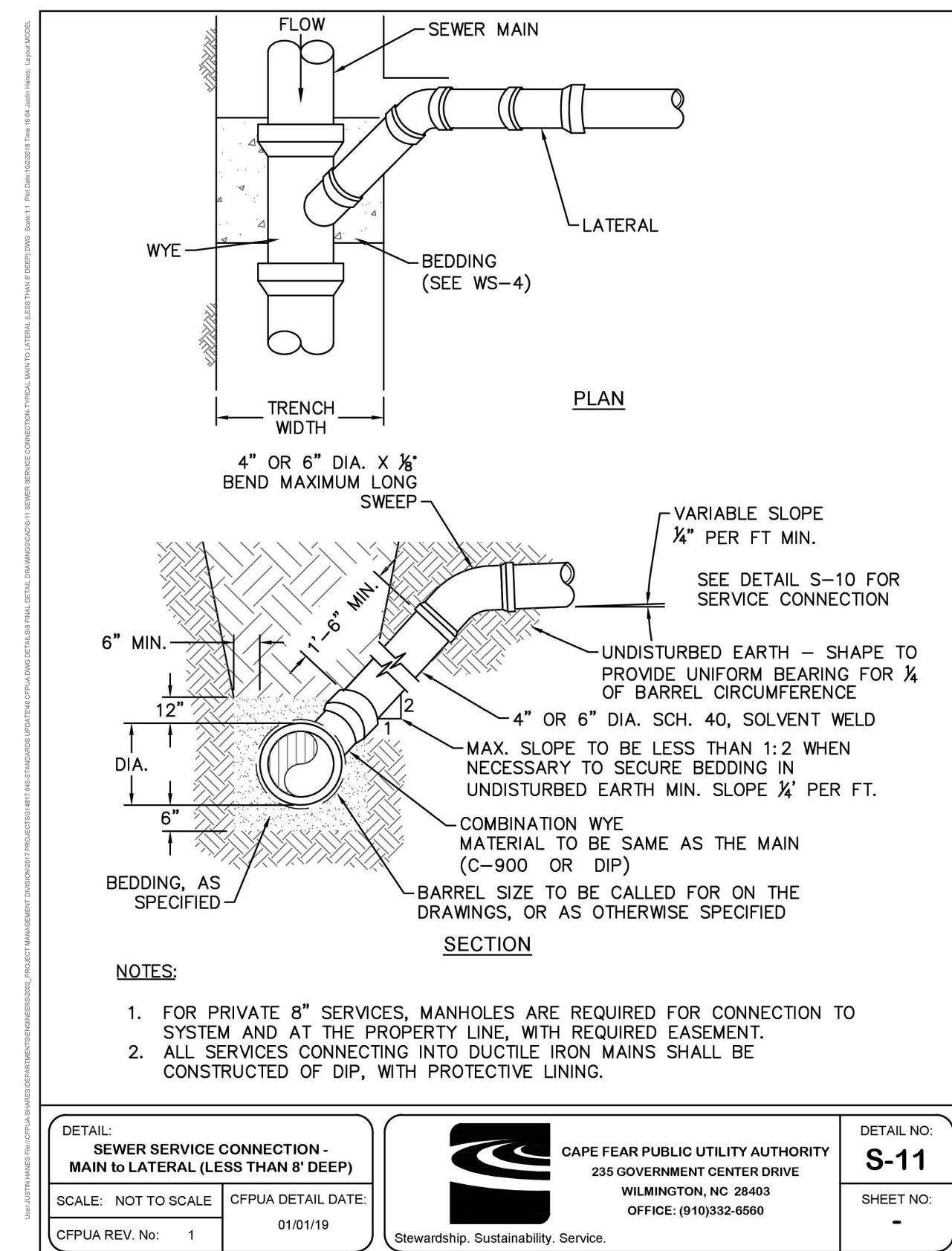
- NOTES:**
- WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE THE RIGHT-OF-WAY LINE.
 - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY.
 - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS.
 - NON-TRAFFIC METER BOXES SHALL BE PER CFPUA STANDARD MATERIAL.
 - 3" CLEAN FILL REQUIRED ALL AROUND 2" POLY SERVICE LINE.
 - 1 1/2" METER - NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
 - 2" METER - NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
 - WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNERS.
 - SERVICE PIPING AND METER SETTER TO BE CENTERED IN THE METER BOX.

<p>DETAIL: COMMERCIAL WATER SERVICE - 1/2 OR 3/4 INCH METERS</p> <p>SCALE: NOT TO SCALE CFPUA REV. No: 1</p>	<p>CFPUA DETAIL DATE: 01/01/19</p>	<p>CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560</p>	<p>DETAIL NO: W-3</p> <p>SHEET NO.: -</p>
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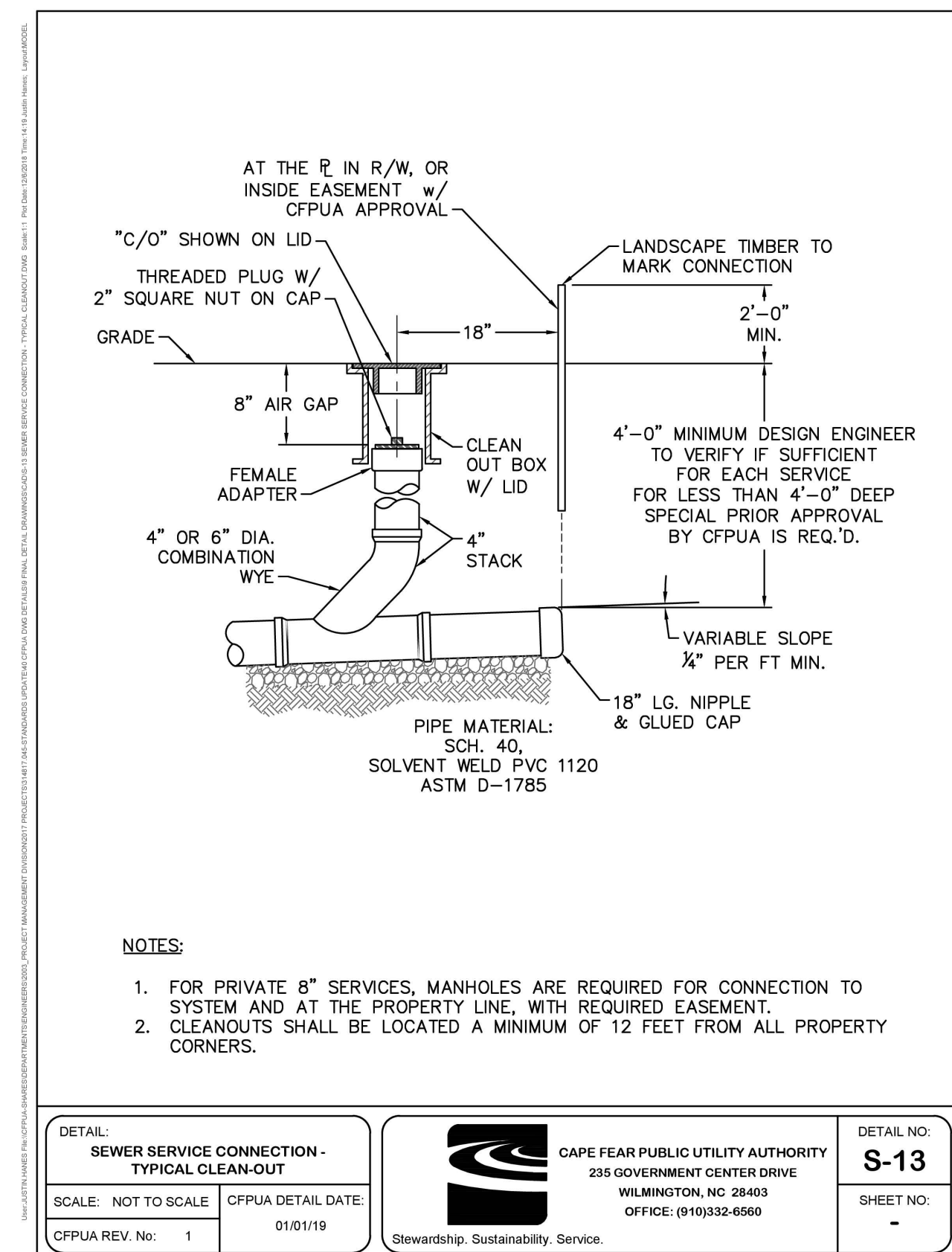
- NOTES:**
- JOINT RESTRAINT SYSTEMS SHALL BE WEDGE ACTION STYLE FOR DI.
 - WHEN HYDRANT LEGS REQUIRE FULL LENGTH PIPE SECTIONS, OVER BELL RESTRAINT SYSTEM SHALL HAVE 316 STAINLESS STEEL HARNESS AND FASTENERS.
 - CONTINUOUS 316 STAINLESS STEEL RODS (TEE TO VALVE AND VALVE TO HYDRANT) MAY BE USED WITH COR-BLUE MJ T-BOLT AND GASKET KITS, AS AN ALTERNATIVE.
 - HYDRANT AND VALVE SHALL BE PLACED OUTSIDE DITCH LIMITS.
 - WEEP HOLES OPEN AND UNBLOCKED TO DRAIN.
 - MJ TEE SHALL BE RESTRAINED ON EACH SIDE OF MAIN PLUS MAIN VALVES, FITTING, OR JOINTS WITHIN 10-FEET OF MJ TEE.
 - TRACING WIRE SHALL EXTEND ALONG HYDRANT LATERAL AND UP TO FINISHED GRADE WITH 2-Feet EXTENDED ABOVE THE BREAK RING OF HYDRANT.

<p>DETAIL: FIRE HYDRANT ASSEMBLY</p> <p>SCALE: NOT TO SCALE CFPUA REV. No: 1</p>	<p>CFPUA DETAIL DATE: 01/01/19</p>	<p>CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560</p>	<p>DETAIL NO: W-9</p> <p>SHEET NO.: -</p>
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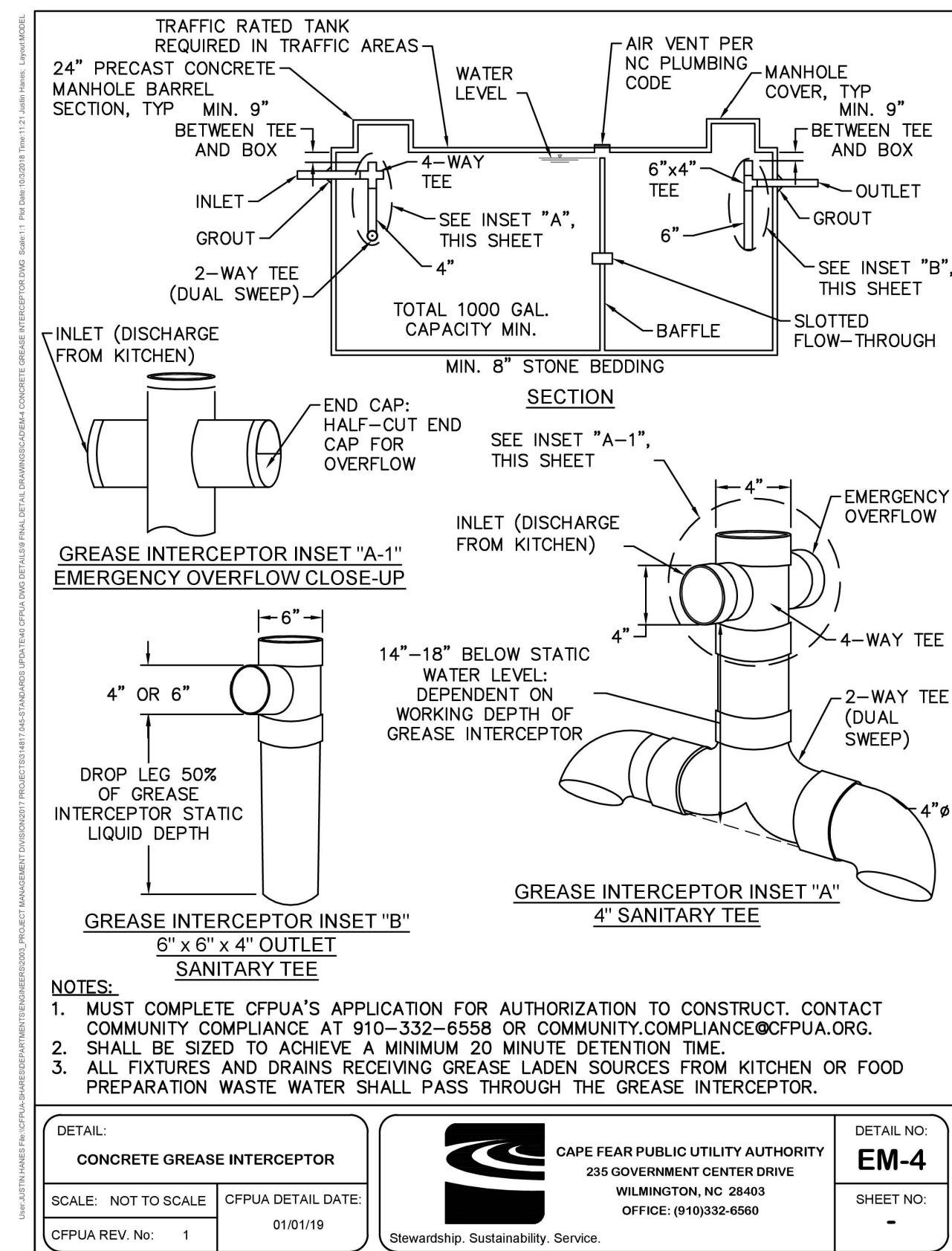
- NOTES:**
- FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
 - ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.

<p>DETAIL: SEWER SERVICE CONNECTION - MAIN TO LATERAL (LESS THAN 8' DEEP)</p> <p>SCALE: NOT TO SCALE CFPUA REV. No: 1</p>	<p>CFPUA DETAIL DATE: 01/01/19</p>	<p>CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560</p>	<p>DETAIL NO: S-11</p> <p>SHEET NO.: -</p>
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- NOTES:**
- FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
 - CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.

<p>DETAIL: SEWER SERVICE CONNECTION - TYPICAL CLEAN-OUT</p> <p>SCALE: NOT TO SCALE CFPUA REV. No: 1</p>	<p>CFPUA DETAIL DATE: 01/01/19</p>	<p>CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560</p>	<p>DETAIL NO: S-13</p> <p>SHEET NO.: -</p>
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- NOTES:**
- MUST COMPLETE CFPUA'S APPLICATION FOR AUTHORIZATION TO CONSTRUCT. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR COMMUNITY.COMPLIANCE@CFPUA.ORG.
 - SHALL BE SIZED TO ACHIEVE A MINIMUM 20 MINUTE DETENTION TIME.
 - ALL FIXTURES AND DRAINS RECEIVING GREASE LADEN SOURCES FROM KITCHEN OR FOOD PREPARATION WASTE WATER SHALL PASS THROUGH THE GREASE INTERCEPTOR.

<p>DETAIL: CONCRETE GREASE INTERCEPTOR</p> <p>SCALE: NOT TO SCALE CFPUA REV. No: 1</p>	<p>CFPUA DETAIL DATE: 01/01/19</p>	<p>CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560</p>	<p>DETAIL NO: EM-4</p> <p>SHEET NO.: -</p>
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USPS, March - May 21, 2019 - 9:57am P:\Project Drawing Files\Site Department\2018\18-111_details.dwg - LAYOUT: D-7

<p>Approved Construction Plan</p> <p>Name _____ Date _____</p>		<p>Public Services • Engineering Division APPROVED STORMWATER MANAGEMENT PLAN</p> <p>Date: _____ Permit # _____</p> <p>Signed: _____</p>
Planning _____		
Traffic _____		
Fire _____		

NO.	REVISION	DATE	CONSULTANT:

Donaville Group, INC.
3471 DONAVILLE ST.
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

SEAL 024955
3/10/19
JOSHUA W. COX
C-4217

DEVELOPER:

DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

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**5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405**

STORE NUMBER:
NCC 39
BDG # 18-111
PROJECT MANAGER:
DON THRAILKILL

PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105

DRAWN BY:
SC

SHEET TITLE:
UTILITY DETAILS

DATE: MAY 8, 2019
ISSUED FOR: OUT TO BID

SHEET NUMBER:
D-7



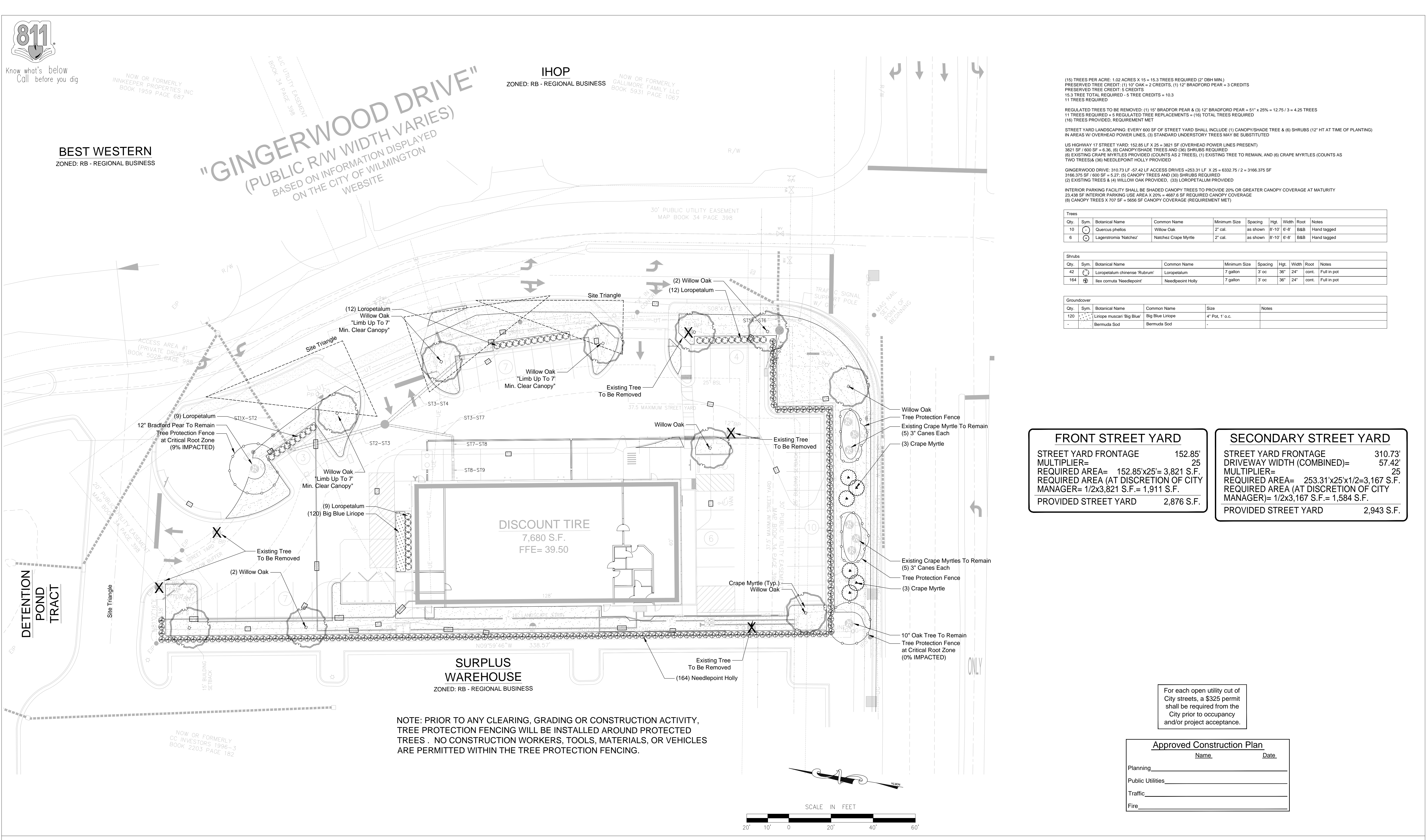
Know what's below
Call before you dig

NOW OR FORMERLY
INNKKEEPER PROPERTIES INC
BOOK 1959 PAGE 687

BEST WESTERN
ZONED: RB - REGIONAL BUSINESS

"GINGERWOOD DRIVE"
(PUBLIC R/W WIDTH VARIES)
BASED ON INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

IHOP
ZONED: RB - REGIONAL BUSINESS
NOW OR FORMERLY
GALLIMORE FAMILY LLC
BOOK 5931 PAGE 1067



(15) TREES PER ACRE: 1.02 ACRES X 15 = 15.3 TREES REQUIRED (2" DBH MIN.)
PRESERVED TREE CREDIT: (1) 10" OAK = 2 CREDITS, (1) 12" BRADFORD PEAR = 3 CREDITS
PRESERVED TREE CREDIT: 4 CREDITS
15.3 TREE TOTAL REQUIRED - 5 TREE CREDITS = 10.3
11 TREES REQUIRED

REGULATED TREES TO BE REMOVED: (1) 15" BRADFORD PEAR & (3) 12" BRADFORD PEAR = 51' x 25% = 12.75 / 3 = 4.25 TREES
11 TREES REQUIRED = 5 REGULATED TREE REPLACEMENTS = (16) TOTAL TREES REQUIRED
(16) TREES PROVIDED, REQUIREMENT MET

STREET YARD LANDSCAPING: EVERY 600 SF OF STREET YARD SHALL INCLUDE (1) CANOPY/SHADE TREE & (6) SHRUBS (12" HT AT TIME OF PLANTING)
IN AREAS W/ OVERHEAD POWER LINES, (3) STANDARD UNDERSTORY TREES MAY BE SUBSTITUTED

US HIGHWAY 17 STREET YARD: 152.85 LF X 25 = 3821 SF (OVERHEAD POWER LINES PRESENT)
3821 SF / 600 SF = 6.36, (6) CANOPY/SHADE TREES AND (36) SHRUBS REQUIRED
(6) EXISTING CRAPE MYRTLES PROVIDED (COUNTS AS 2 TREES), (1) EXISTING TREE TO REMAIN, AND (6) CRAPE MYRTLES (COUNTS AS TWO TREES) (6) NEEDLEPOINT HOLLY PROVIDED

GINGERWOOD DRIVE: 310.73 LF - 57.42 LF ACCESS DRIVES = 253.31 LF X 25 = 6332.75 / 2 = 3166.375 SF
3166.375 SF / 600 SF = 5.27, (5) CANOPY TREES AND (30) SHRUBS REQUIRED
(2) EXISTING TREES & (4) WILLOW OAK PROVIDED, (33) LOROPETALUM PROVIDED

INTERIOR PARKING FACILITY SHALL BE SHADED CANOPY TREES TO PROVIDE 20% OR GREATER CANOPY COVERAGE AT MATURITY
23,438 SF INTERIOR PARKING USE AREA X 20% = 4687.6 SF REQUIRED CANOPY COVERAGE
(9) CANOPY TREES X 707 SF = 6366 SF CANOPY COVERAGE (REQUIREMENT MET)

Qty.	Sym.	Botanical Name	Common Name	Minimum Size	Spacing	Hgt.	Width	Root	Notes
10	○	Quercus phellos	Willow Oak	2" cal.	as shown	8'-10'	6'-8"	B&B	Hand tagged
6	○	Lagerstromia 'Natchez'	Natchez Crape Myrtle	2" cal.	as shown	8'-10'	6'-8"	B&B	Hand tagged

Qty.	Sym.	Botanical Name	Common Name	Minimum Size	Spacing	Hgt.	Width	Root	Notes
42	○	Loropetalum chinense 'Rubrum'	Loropetalum	7 gallon	3' oc	36"	24"	cont.	Full in pot
164	○	Ilex cornuta 'Needlepoint'	Needlepoint Holly	7 gallon	3' oc	36"	24"	cont.	Full in pot

Qty.	Sym.	Botanical Name	Common Name	Size	Notes
120	○	Liriope muscari 'Big Blue'	Big Blue Liriope	4" Pot, 1" o.c.	
-	-	Bermuda Sod	Bermuda Sod	-	

FRONT STREET YARD
STREET YARD FRONTAGE 152.85'
MULTIPLIER= 25
REQUIRED AREA= 152.85x25= 3,821 S.F.
REQUIRED AREA (AT DISCRETION OF CITY MANAGER)= 1/2x3,821 S.F. = 1,911 S.F.
PROVIDED STREET YARD 2,876 S.F.

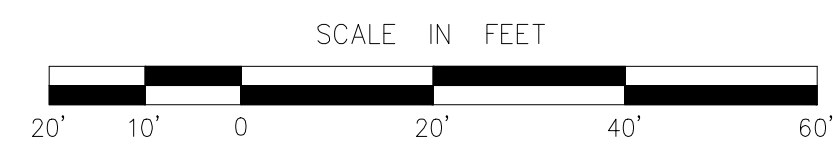
SECONDARY STREET YARD
STREET YARD FRONTAGE 310.73'
DRIVEWAY WIDTH (COMBINED)= 57.42'
MULTIPLIER= 25
REQUIRED AREA= 253.31x25x1/2=3,167 S.F.
REQUIRED AREA (AT DISCRETION OF CITY MANAGER)= 1/2x3,167 S.F. = 1,584 S.F.
PROVIDED STREET YARD 2,943 S.F.

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

Approved Construction Plan

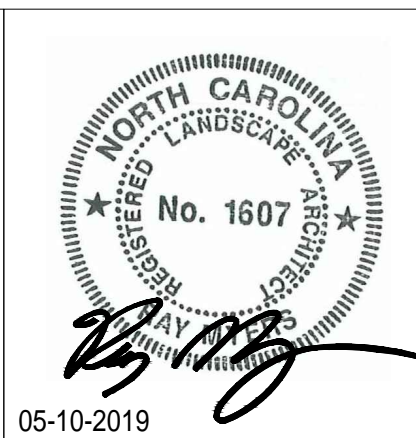
Name	Date
Planning	
Public Utilities	
Traffic	
Fire	

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



NO.	REVISION	DATE
1	REVISIONS	05-08-2019
2	REVISIONS	05-10-2019

CONSULTANT:
DG
Donaville Group, INC.
3471 DONAVILLE ST
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703



DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000



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**5335 MARKET STREET
WILMINGTON,
NEW HANOVER COUNTY,
NC 28405**

STORE NUMBER:
NCC 11593
BDC # 15-111
PROJECT MANAGER:
DON THRAILKILL
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
Ext 105
DRAWN BY:
SC

SHEET TITLE:
LANDSCAPE PLAN
DATE: MAY 25, 2018
ISSUED FOR: CONCEPTUAL REVIEW

SHEET NUMBER:
LS-1



Know what's below
Call before you dig

NOW OR FORMERLY
INNKKEEPER PROPERTIES INC
BOOK 1959 PAGE 687

BEST WESTERN
ZONED: RB - REGIONAL BUSINESS

"GINGERWOOD DRIVE"
(PUBLIC R/W WIDTH VARIES)
BASED ON INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

IHOP
ZONED: RB - REGIONAL BUSINESS
NOW OR FORMERLY
GALLIMORE FAMILY LLC
BOOK 5931 PAGE 1067

100 D DRIVE
DTH VARIES
INFORMATION DISPLAYED
ON THE CITY OF WILMINGTON
WEBSITE

30' PUBLIC UTILITY EASEMENT
MAP BOOK 34 PAGE 398

ACCESS AREA #1
(PRIVATE DRIVE)
BOOK 9028 PAGE 988

20' PUBLIC UTILITY EASEMENT
MAP BOOK 34 PAGE 398

NOW OR FORMERLY
CC INVESTORS 1996-3
BOOK 2203 PAGE 182

APPROXIMATE LOCATION OF
CONTROLLER. CONTRACTOR SHALL
VERIFY EXACT LOCATION WITH
OWNER'S REPRESENTATIVE PRIOR
TO START OF CONSTRUCTION.

DISCOUNT TIRE
7,680 S.F.
FFE= 50

SURPLUS WAREHOUSE
ZONED: RB - REGIONAL BUSINESS
APPROXIMATE LOCATION OF POINT OF CONNECTION, BACKFLOW
PREVENTER, & PRESSURE REDUCING VALVE. CONTRACTOR SHALL
VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO
START OF CONSTRUCTION. SYSTEM REQUIRES MINIMUM 60 GPM @ 65 PSI.
CONTRACTOR SHALL PERFORM PRESSURE READING DOWNSTREAM SIDE OF
BACKFLOW PREVENTER. IF DYNAMIC PRESSURE DOES NOT EXCEED 75
PSI, DO NOT INSTALL THE PRESSURE REDUCING VALVE AND OWNER
SHALL BE ISSUED A CREDIT FROM THE CONTRACTOR.

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

Approved Construction Plan

Name _____ Date _____
Planning _____
Public Utilities _____
Traffic _____
Fire _____

SLEEVE NOTE
ALL SLEEVE LOCATIONS WHERE SIZE
IS NOT NOTED SHALL BE INSTALLED
2 SIZES LARGER THAN PIPING PASSING
THROUGH SLEEVE OR MINIMUM 4" SIZE.
INSTALL EXTRA 4" SLEEVE AT MAIN LINE
LOCATIONS WHERE SIZE IS NOT NOTED.

THERE SHALL NOT BE ANY PHYSICAL
CONNECTION BETWEEN THE DOMESTIC/
POTABLE WATER SYSTEM AND THE
IRRIGATION SYSTEM WITHOUT AN
APPROVED BACKFLOW PREVENTION

RIGHT OF WAY PERMIT NOTE
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
TO CHECK WITH ALL LOCAL GOVERNING AGENCIES, VERIFY
ALL REQUIREMENTS AND CODE REGULATIONS, AND OBTAIN
ALL INFORMATION REQUIRED TO PULL NECESSARY RIGHT OF
WAY PERMITS IF REQUIRED. CONTRACTOR SHALL SECURE
AND PAY FOR PERMITS.

IRRIGATION PERMIT/BACKFLOW NOTE
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO
OBTAIN AND PAY FOR ALL RELATED PERMITS AND PERFORM
BACKFLOW TESTING PER LOCAL CODE. APPROVED RESULTS
SHALL BE SUBMITTED TO OWNER'S REPRESENTATIVE.

HEAD SPACING NOTE
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
TO SCALE THE PLAN AND CHECK NOZZLE TYPES TO
DETERMINE THE CORRECT SPACING OF THE HEADS. THE
CONTRACTOR SHALL NOT SPACE THE HEADS FURTHER
APART OR USE LESS HEADS THAN SHOWN ON THE PLAN.
ANY CHANGES TO THE HEAD SPACING OR LAYOUT, WITHOUT
THE CONSENT OF THE LANDSCAPE ARCHITECT OR OWNER,
SHALL HOLD THE IRRIGATION CONTRACTOR RESPONSIBLE FOR
WARRANTY OF THE PLANTS AND OR SOD IN THESE AREAS.

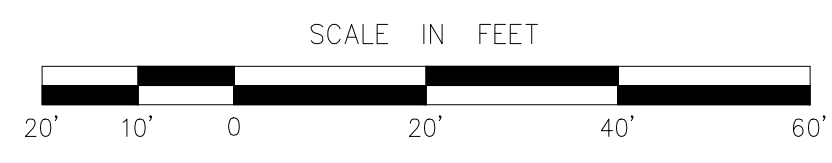
IRRIGATION RAIN SENSOR NOTE
ALL ELECTRONIC IRRIGATION SYSTEMS INSTALLED AFTER
JANUARY 1, 2005 MUST BE EQUIPPED WITH A RAIN SENSOR
SHUT-OFF SWITCH

LEGEND

- RAIN CHECK HEAD - SEE DRIP DETAIL
- RAIN BIRD XZ-150 COM ZONE CONTROL KIT. INSTALL IN CARSON JUMBO RECTANGLE VALVE BOX.
- RAIN BIRD 100/150/200 PEB-PRS-D ELECTRIC VALVE. INSTALL IN A CARSON OR EQUAL VP-10 VALVE BOX.
- 0-24 GPM @ 1" 25-50 GPM @ 1.12"
- RAIN BIRD #3RC QUICK COUPLING VALVE/SUPPLY 1-3/8" KEY & HOSE SWIVEL PER 5 0 C VALVES
- EACH PLANTING AREA SHOWN AS DRIP TUBING SHALL HAVE ROWS (12 O.C.) OF NETAFIM TECHLINE CV DRIP TUBING. THE DRIP TUBING SHALL BE INSTALLED ON GRADE, SECURED WITH NETAFIM TL86 GALVANIZED SOIL STAPLES, AND THEN COVERED WITH MULCH. THE DRIPLINE SHALL BE LOCATED TO ALLOW FOR PROPER COVERAGE OF ALL PLANT MATERIAL. NETAFIM BARBED FITTINGS SHALL BE USED ON ALL DRIPLINE JOINTS AND ENDS. SEE DETAIL.
- NETAFIM TECHLINE CV DRIP TUBING WITH EMITTERS. INSTALL AS PER DETAILS
- GEOFLOW (AP FV) FLUSH VALVE/OR EQUAL/ INSTALL AS PER DETAILS
- GEOFLOW (ARV 05) AIR VACUUM RELIEF VALVE/ OR EQUAL/INSTALL AS PER DETAILS
- CLASS 200 PVC LATERAL LINE. SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN.
- HUNTER I-20-ADV-3.0 ROTOR HEAD - 3 GPM
- RAINBIRD 1800 SERIES 6" POP-UP
- SCH 40 SLEEVE (MINIMUM OF 24" DEPTH AND 2 SIZES LARGER THAN THE PIPE SIZE OR AS LABELED ON THE PLAN)
- CLASS 200 PVC MAINLINE-2"
- CLASS 200 PVC LATERAL LINE. SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN.
- CONTROLLER-HUNTER ICC-3400M 24 STATION/ WALL MOUNT. AS SHOWN ON THE PLAN, INSTALL MINI CLIK II RAIN SENSOR & FREEZE CLIK SENSOR. GROUND WITH MINIMUM (2) 8" COPPER CLAD RODS. SLEEVE TO AS REQUIRED.
- BACKFLOW PREVENTER-2" REDUCED PRESSURE AND HOT BOX (B21) OR TYPES AS REQUIRED BY LOCAL CODE.
- PRESSURE REDUCING VALVE-2" WATTS (INSTALL IF REQUIRED)

LATERAL LINE PIPE SIZE SCHEDULE

0 - 10 GPM	3/4" CLASS 200 PVC PIPE
11 - 16 GPM	1" CLASS 200 PVC PIPE
17 - 25 GPM	1.12" CLASS 200 PVC PIPE
26 - 35 GPM	2" CLASS 200 PVC PIPE



NO.	REVISION	DATE
1	REVISIONS	05-08-2019
2	REVISIONS	05-10-2019

CONSULTANT:
DG
Donaville Group, INC.
3471 DONAVILLE ST
DULUTH, GA 30096
PHONE: 404-567-5701
FAX: 404-567-5703

NORTH CAROLINA
LANDSCAPE ARCHITECT
No. 1607
05-10-2019

DEVELOPER:
DISCOUNT TIRE COMPANY
20225 N. SCOTTSDALE RD.
SCOTTSDALE, AZ 85255
PH: 480-606-6000

DISCOUNT TIRE

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5335 MARKET STREET WILMINGTON, NEW HANOVER COUNTY, NC 28405

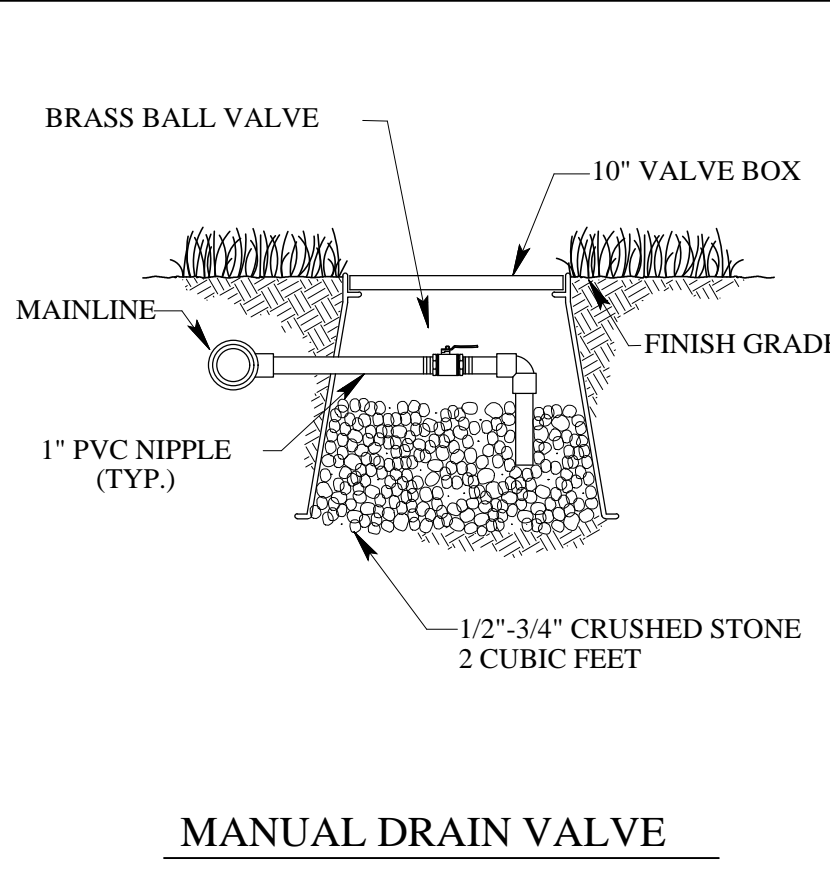
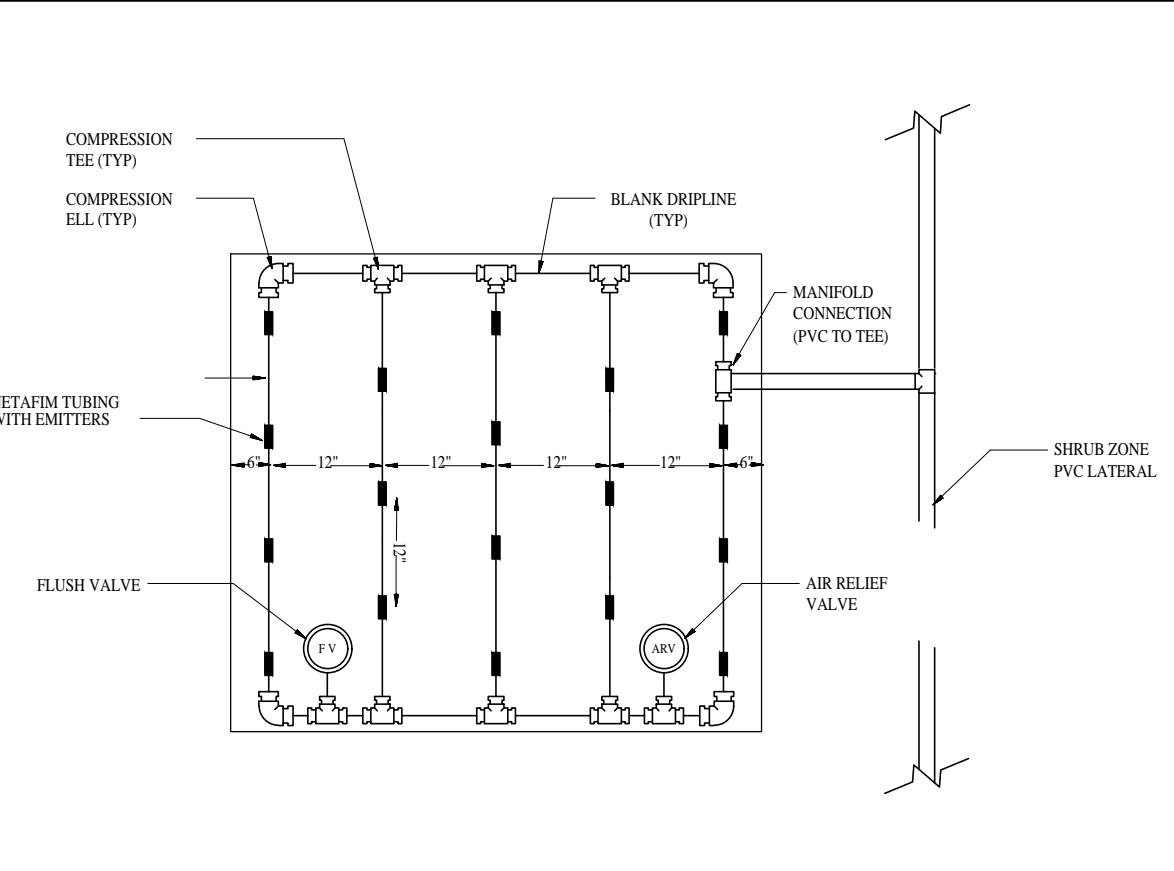
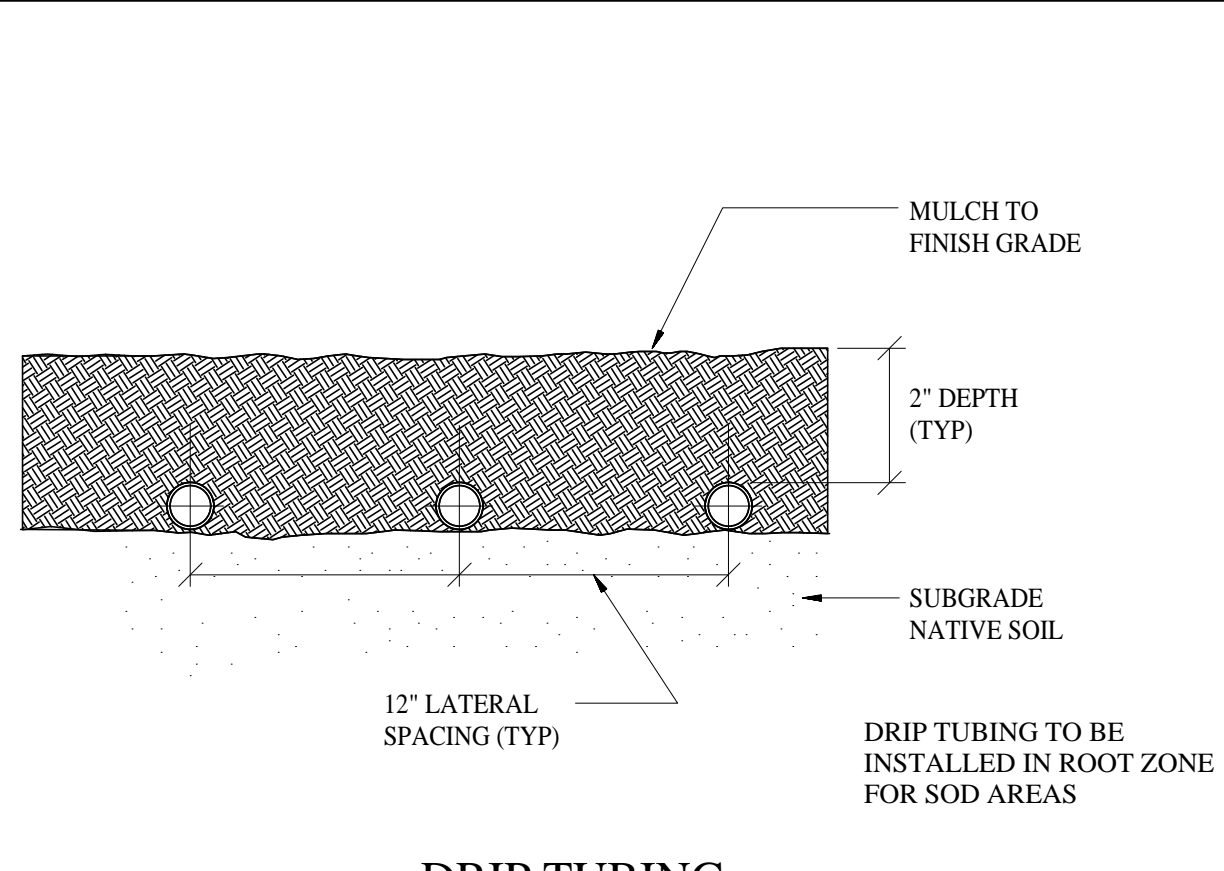
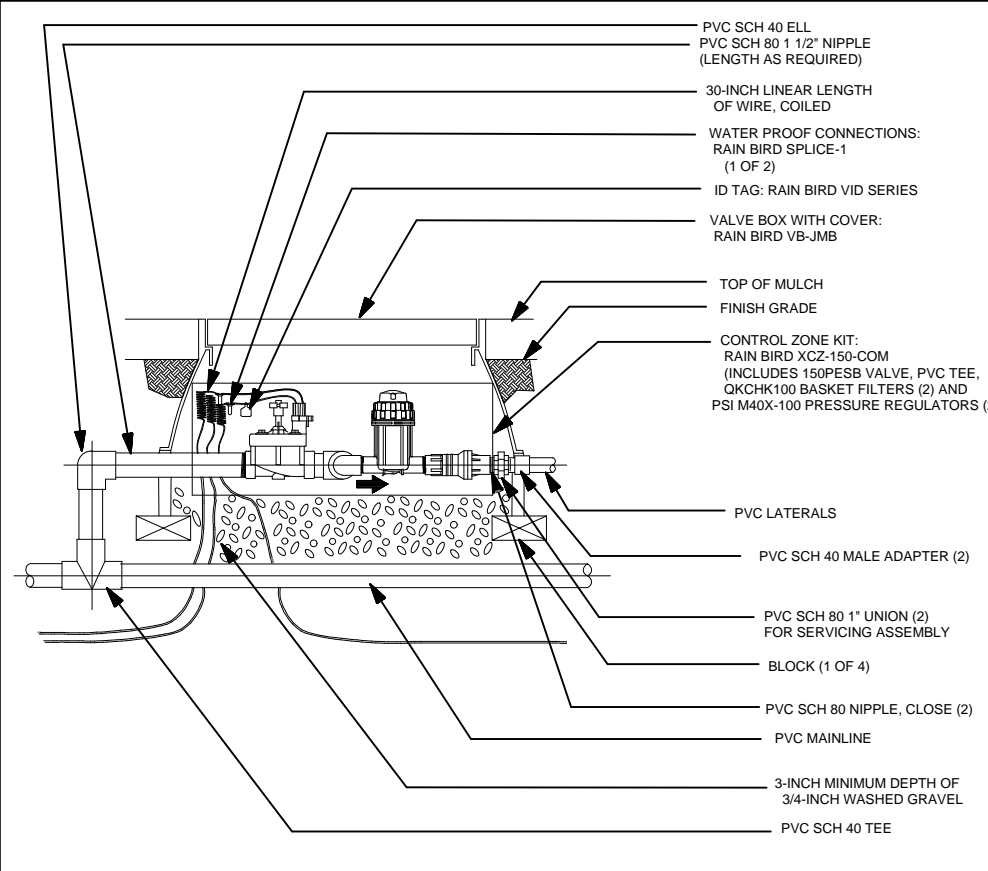
STORE NUMBER:
NCC 11593
BDG # 15-111
PROJECT MANAGER:
DON THRAILKILL
PROJECT CIVIL ENGINEER:
JOSHUA COX
PH: (404) 567-5701
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SC

SHEET TITLE:
IRRIGATION PLAN
DATE: MAY 25, 2018
ISSUED FOR: CONCEPTUAL REVIEW

SHEET NUMBER:
IR-1

GENERAL NOTES

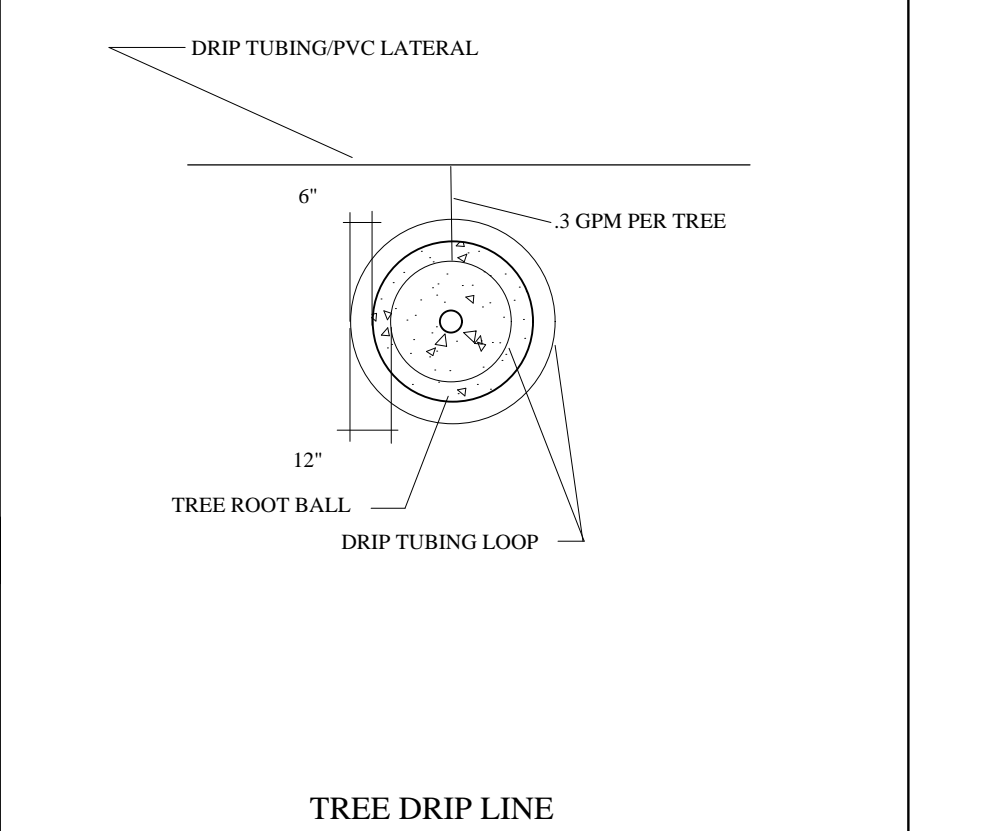
- REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS. ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 24" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER.
- ALL POP-UP ROTORS AND SPRAYS SHALL BE INSTALLED USING AN 18" PVC FLEX PIPE CONNECTION. DO NOT USE FUNNY PIPE.
- ADJUST ALL NOZZLES TO REDUCE WATER WASTE ON HARD SURFACES & BLDG. WALLS.
- THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING.
- ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING KING "ONE STEP" CONNECTORS AND SEALANT WITH WIRE NUTS.
- THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON A REPRODUCIBLE PAPER (SEPIA OR MYLAR) SHOWING ALL IRRIGATION INSTALLATION. A MYLAR OR SEPIA OF THE ORIGINAL PLAN CAN BE OBTAINED FROM THE ARCHITECT FOR A FEE. THE AS-BUILT DRAWING SHALL LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES.
- ALL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. (PURPLE REUSE TYPE)
- ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.
- THE EXACT HEIGHT OF ANY 12" POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE ARCHITECT IN THE FIELD.
- THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY HIS WORK FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP. (OR AS OUTLINED IN THE WRITTEN SPECIFICATIONS)
- ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO THE EQUIPMENT LOCATION AS PART OF THE ELECTRICAL PLANS.



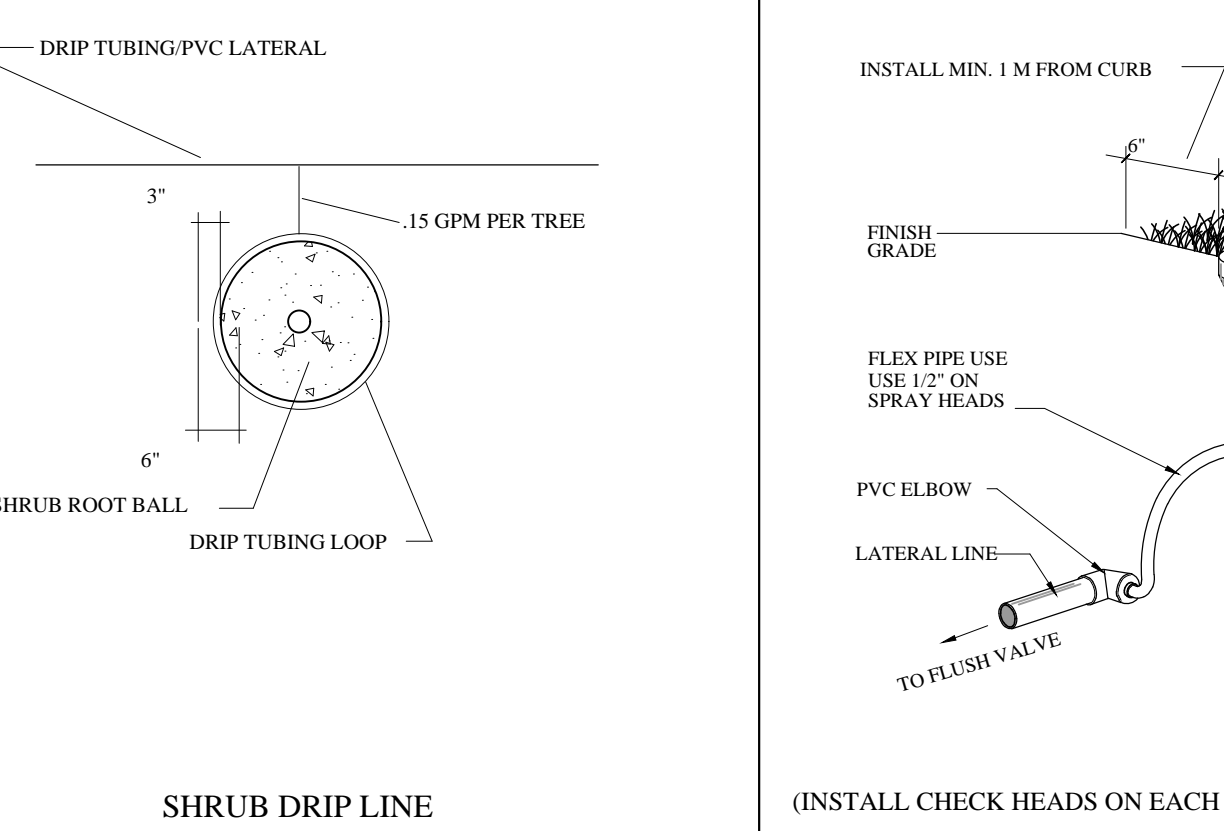
DRIP TUBING NOTES

- INSTALL ALL DRIP TUBING UNDER GROUND. USE U-SHAPED WIRE STABILIZERS TO HOLD THE LINES IN PLACE.
- KEEP ALL DRIP LINE CLEAN AT ALL TIMES BEFORE THE FINAL CONNECTION. TAPE ALL TUBE ENDS OR USE DIRT CAPS.
- AVOID SHARP BENDS IN THE TUBING. DO NOT BEND THE TUBING WITH LESS THAN A 12" RADIUS.
- ALL DRIP TUBING SHALL HAVE UNIFORM SPACING AND BURIAL DEPTH.
- INSTALL DRIP TUBING TO ALL AREAS THAT SHALL RECEIVE PLANT MATERIAL. SEE THE LANDSCAPE PLAN FOR THE EXACT LOCATIONS.
- SPACE TUBING AS NOTED ON THE PLAN. THE PLAN DOES NOT ALWAYS SHOW ALL DRIP TUBING. THE PLAN LAYOUT IS SHOWN FOR CLARITY ONLY.
- REFER TO THE TORO NETAFIM DRIP INSTALLATION MANUAL FOR INSTALLATION INSTRUCTIONS.
- ALWAYS FLUSH ALL LINES BEFORE FINAL CONNECTION.
- REFER TO THE LANDSCAPE PLAN TO AVOID LAYOUT WHERE TREES SHALL BE INSTALLED INSIDE PLANT BEDS.
- ALL MAINLINE SHALL BE BURIED TO A MINIMUM DEPTH OF 24".
- ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING SNAP-TITE CONNECTORS AND SEALANT. ALL WIRE SHALL BE 14 GAUGE, EXCEPT WHERE NOTED OTHERWISE.
- ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE THE LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY.
- THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS OF ANY DAMAGE CAUSED BY HIS WORK.
- INSTALL ALL AIR RELIEF AND FLUSH VALVES INSIDE A VALVE BOX.
- CLEARLY AND NEATLY MARK THE TOP OF EACH VALVE BOX WITH THE TYPE OF EQUIPMENT THAT IT CONTAINS. (I.E. VALVE, FLUSH VALVE, ETC.)
- THE VALVE ASSEMBLY SHALL BE PLACED INSIDE A VALVE BOX. THE VALVE SHALL BE INSTALLED FIRST, FOLLOWED BY A PVC UNION, 1" DISC FILTER (OR AS NOTED ON THE PLAN), AND A PRESSURE REGULATOR (90 PSI), IN THAT ORDER. INSTALL A 6" LAYER OF PEA GRAVEL IN THE BASE.
- THE DRIP TUBING SHALL HAVE EMITTERS EVERY 12" AND SHALL BE SPACED 12" APART.
- FILTER SIZES: 0.17 GPM-3/4", 18-26 GPM-1", 27-55 GPM-1 1/2"
- THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS WORK WITH THE LANDSCAPE CONTRACTOR.

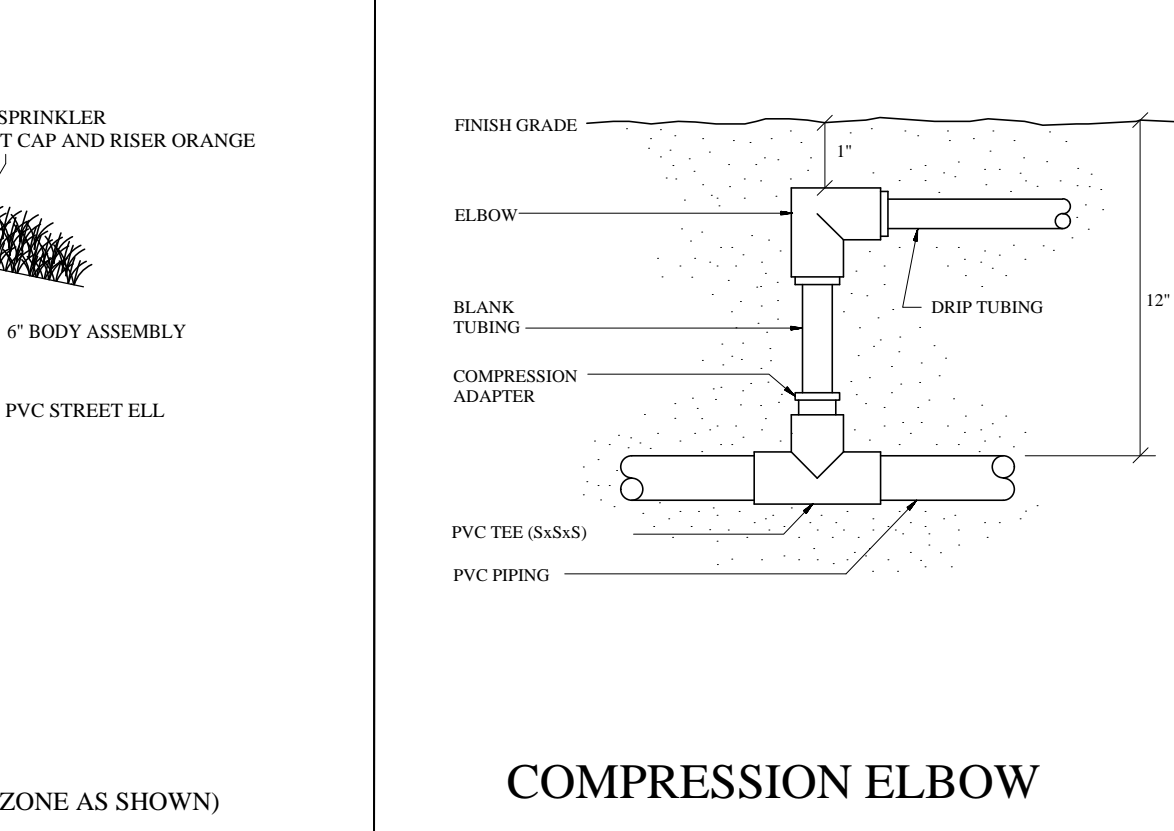
XCZ-150-COM COMMERCIAL CONTROL ZONE KIT



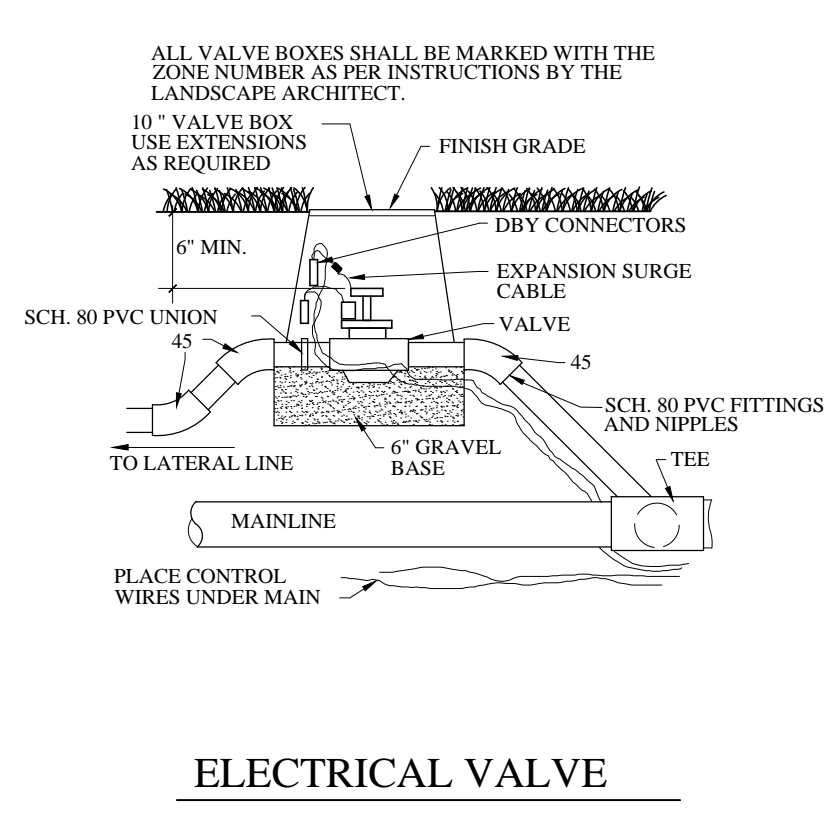
DRIP TUBING



PLANTER AREA W/ GROUND COVER PLANTING



MANUAL DRAIN VALVE



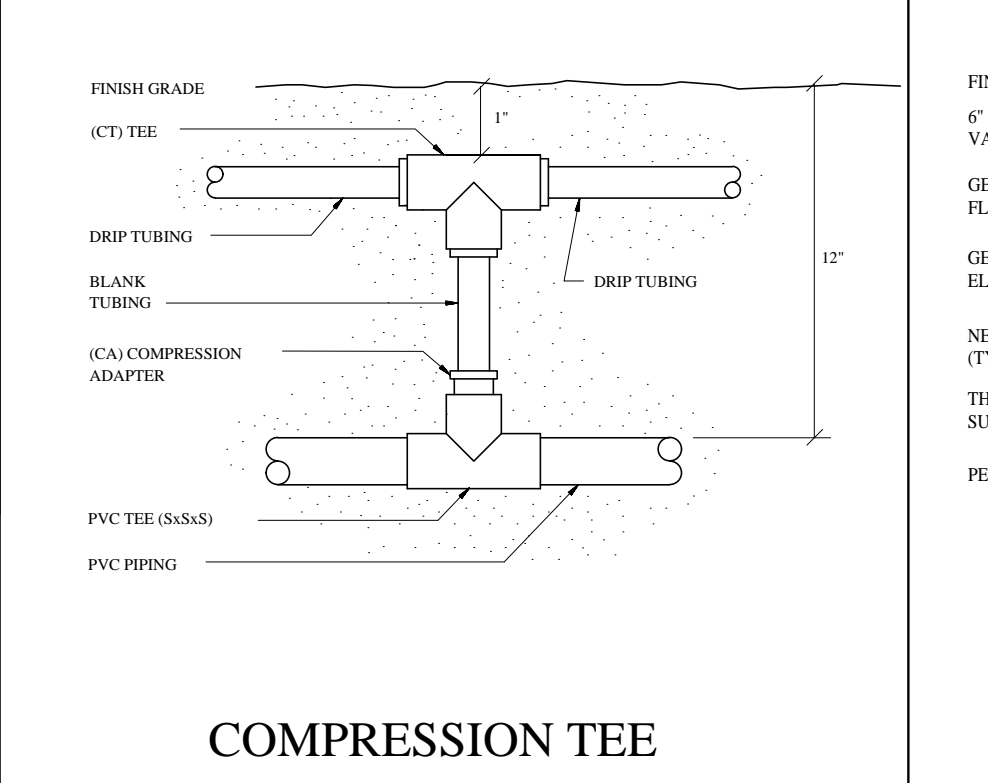
LEGEND

- Run Check Head - See Drip Detail
- Rain Bird XCZ-150 COM ZONE CONTROL KIT - INSTALL IN CARSON JUMBO RECTANGLE VALVE BOX.
- Rain Bird 100150200 PEB-PBS-D ELECTRIC VALVE - INSTALL IN A CARSON OR EQUAL 10" VALVE BOX. 0-24 GPM-1", 25-50 GPM-1 1/2"
- Rain Bird #8RC QUICK COUPLING VALVE/SUPPLY 1-3/8" KEY & HOSE SWIVEL PER 5 Q.C. VALVES
- EACH PLANTING AREA SHOWN AS DRIP TUBING SHALL HAVE ROWS (1/2 O.C.) OF NETAFIM TECHLINE CV DRIP TUBING. THE DRIP TUBING SHALL BE INSTALLED ON GRADE, SECURED WITH NETAFIM TL56 GALVANIZED SOIL STAPLES, AND THEN COVERED WITH MULCH. THE DRIP LINE SHALL BE LOCATED TO ALLOW FOR PROPER COVERAGE OF ALL PLANT MATERIAL. NETAFIM BARBED FITTINGS SHALL BE USED ON ALL DRIP LINE JOINTS AND ENDS. SEE DETAIL.
- NETAFIM TECHLINE CV DRIP TUBING WITH EMITTERS. INSTALL AS PER DETAILS
- GEOFLOW (AP FV) FLUSH VALVE/ OR EQUAL - INSTALL AS PER DETAILS
- CLASS 200 PVC LATERAL LINE - SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN.
- HUNTER I-20-ADV-3.0 ROTOR HEAD - 3 GPM
- RAINBIRD 1800 SERIES 6" POP-UP
- SCH 40 SLEEVE (MINIMUM OF 24" DEPTH AND 2 SIZES LARGER THAN THE PIPE SIZE OR AS LABELED ON THE PLAN)
- CLASS 200 PVC MAINLINE - 2"
- CLASS 200 PVC LATERAL LINE - SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN.
- CONTROLLER-HUNTER ICC-2400M 24 STATION/ WALL MOUNT. AS SHOWN ON THE PLAN. INSTALL MINI CLIK II RAIN SENSOR & FREEZE CLIK SENSOR. GROUND WITH MINIMUM (2) 8" COPPER CLAD RODS. SLEEVE TO AS REQUIRED.
- BACKFLOW PREVENTER - 2" REDUCED PRESSURE AND HOT BOX (RZ) OR TYPES AS REQUIRED BY LOCAL CODE.
- PRESSURE REDUCING VALVE - 2" WATTS (INSTALL IF REQUIRED)

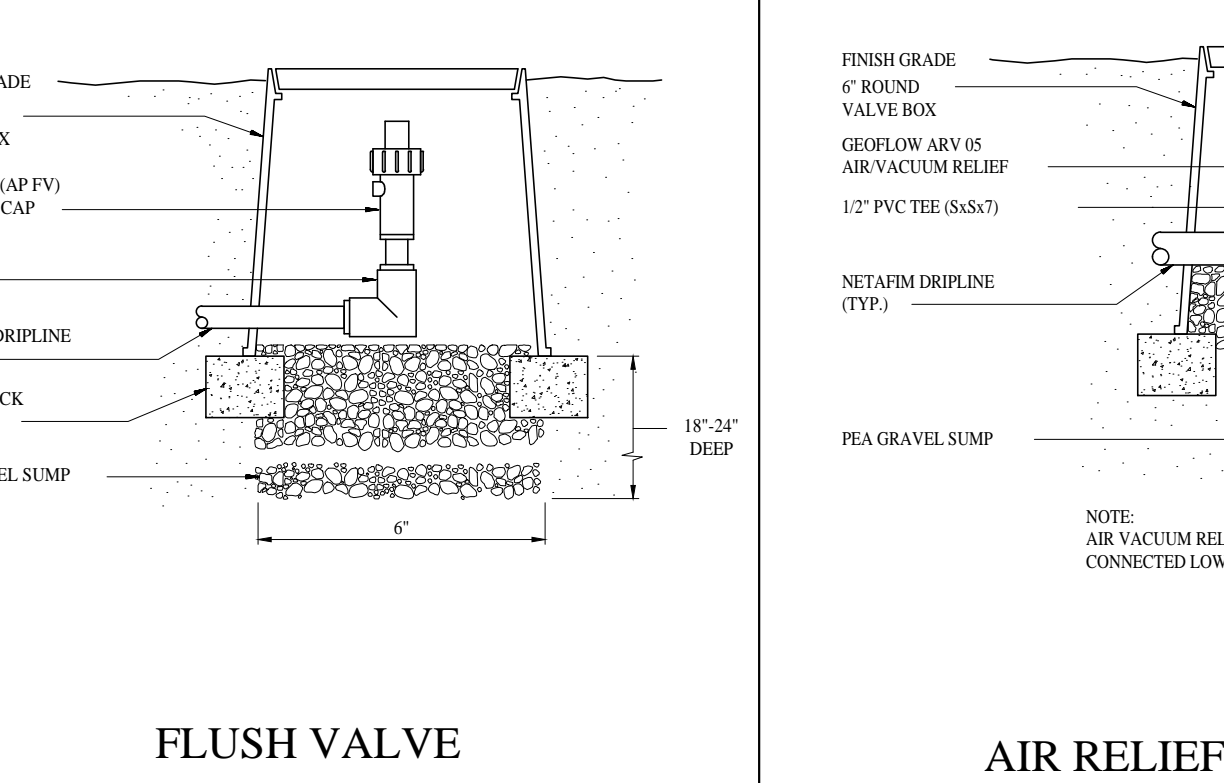
LATERAL LINE PIPE SIZE SCHEDULE

0 - 10 GPM - 3/4" CLASS 200 PVC PIPE
11 - 16 GPM - 1" CLASS 200 PVC PIPE
17 - 25 GPM - 1 1/2" CLASS 200 PVC PIPE
26 - 35 GPM - 2" CLASS 200 PVC PIPE
36 - 55 GPM - 2 1/2" CLASS 200 PVC PIPE
56 - 80 GPM - 3" CLASS 200 PVC PIPE
81 - 120 GPM - 3 1/2" CLASS 200 PVC PIPE
121 - 200 GPM - 4" CLASS 200 PVC PIPE

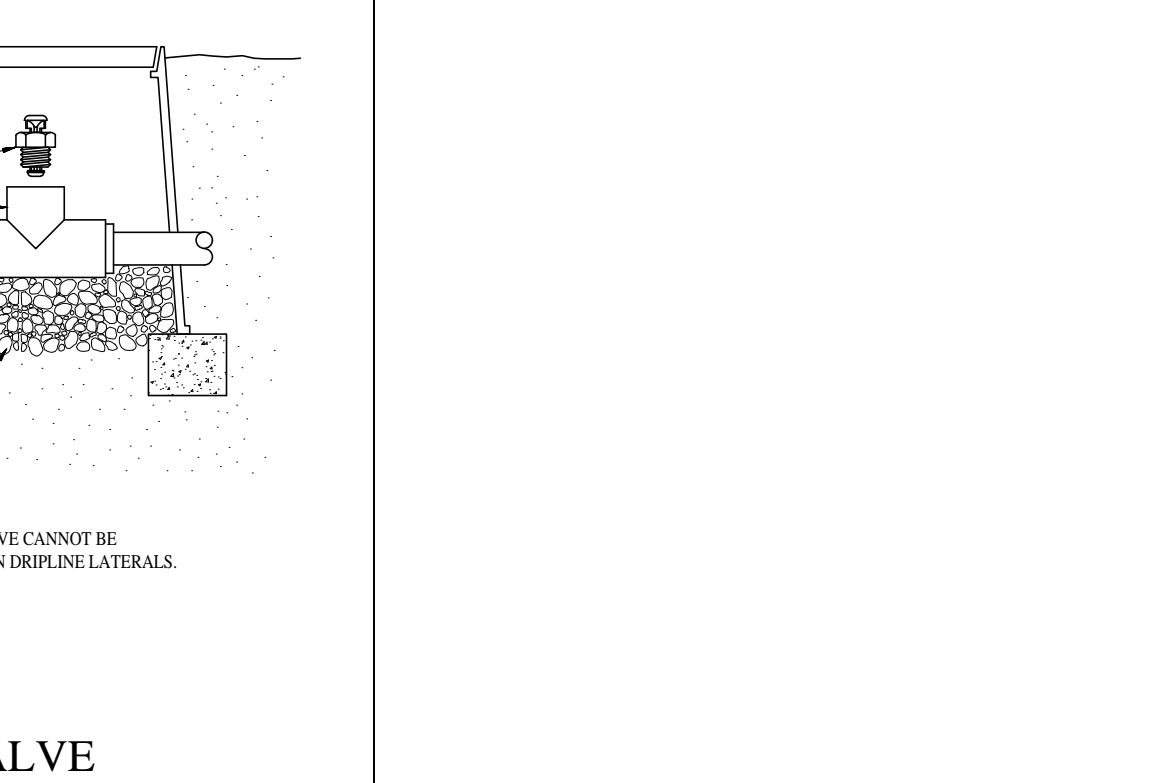
TREE DRIP LINE



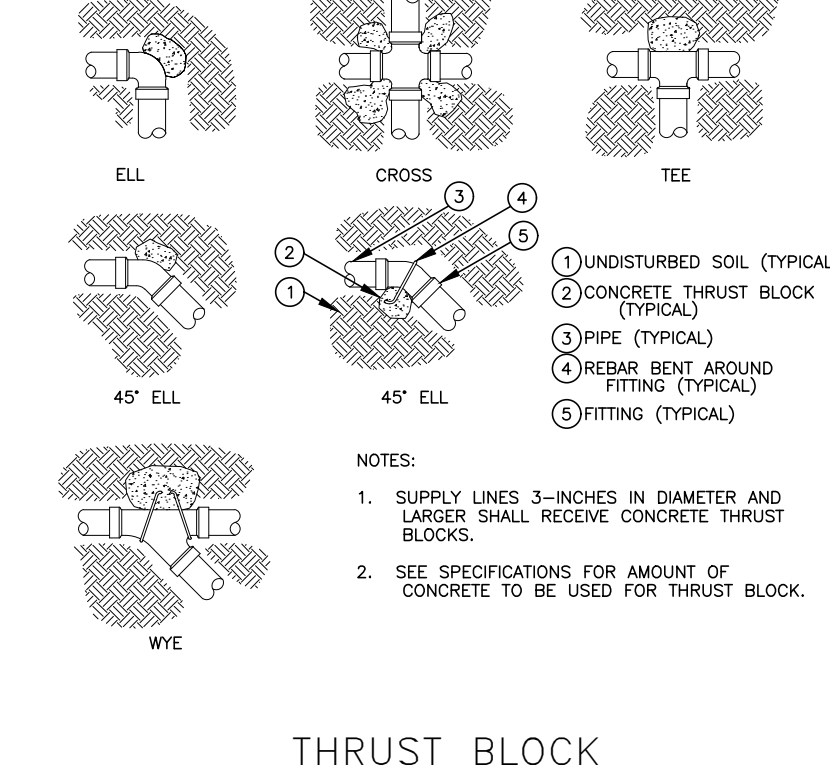
SHRUB DRIP LINE



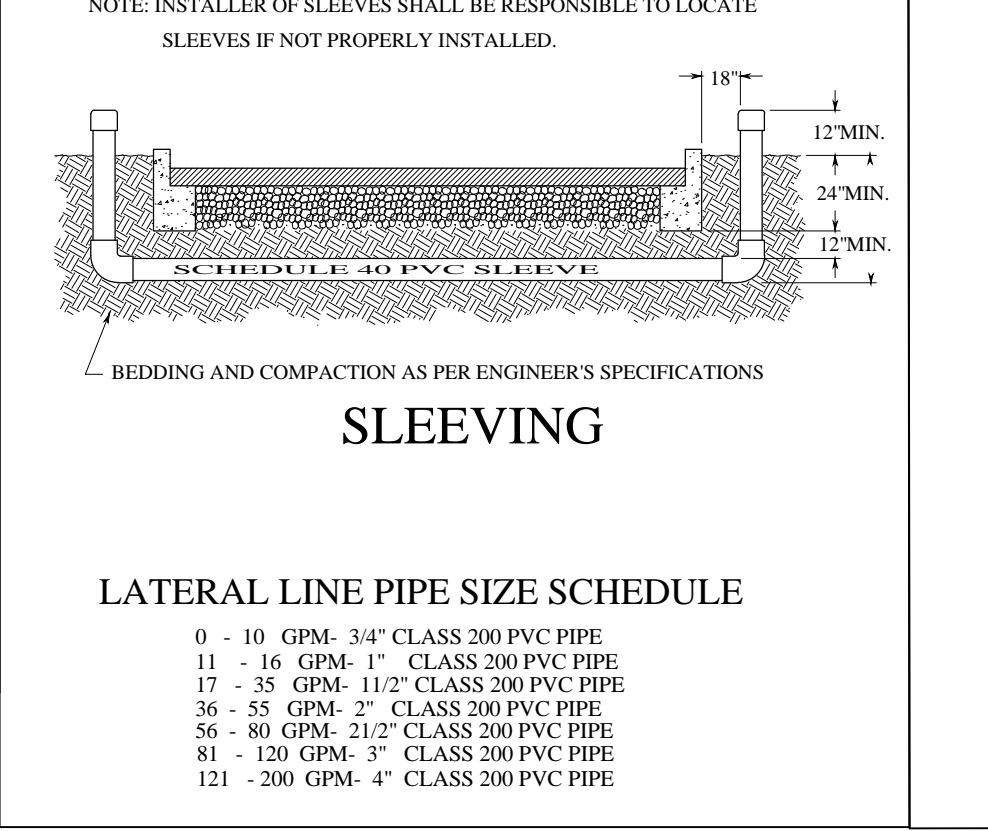
COMPRESSION ELBOW



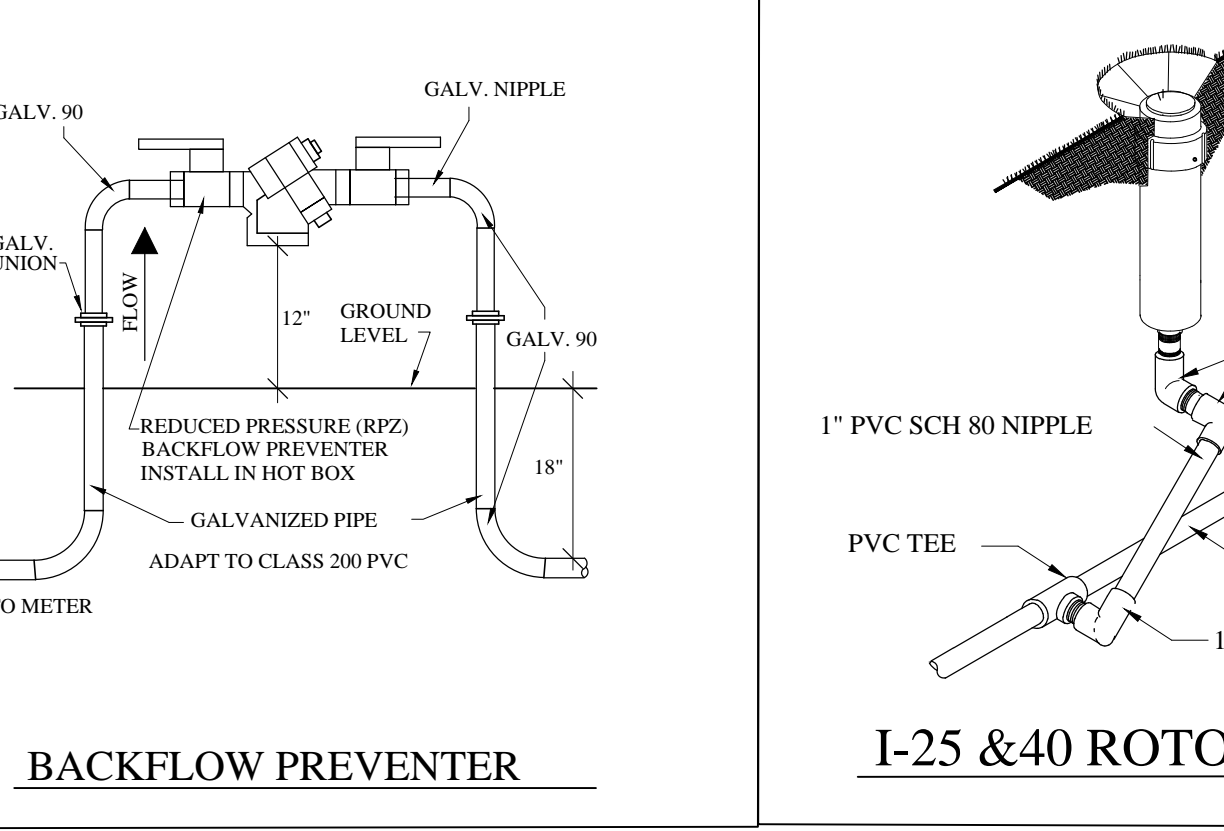
ELECTRICAL VALVE



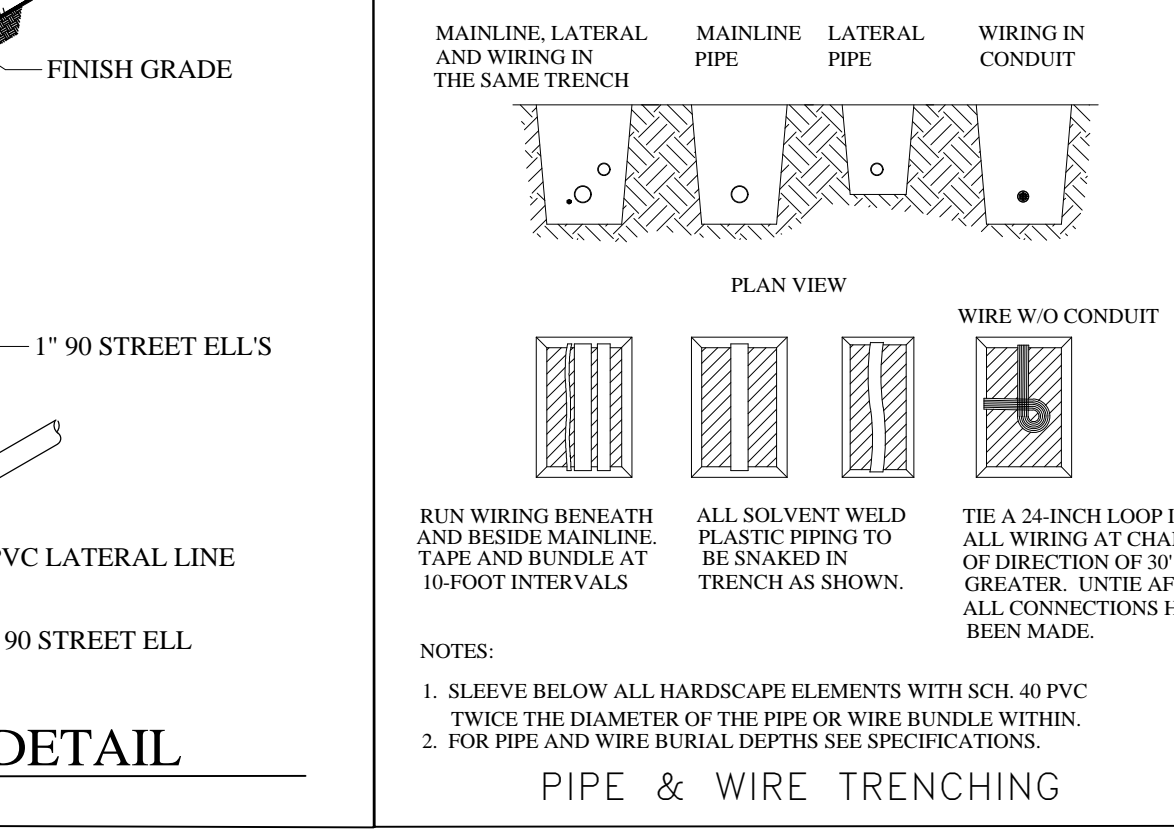
COMPRESSION TEE



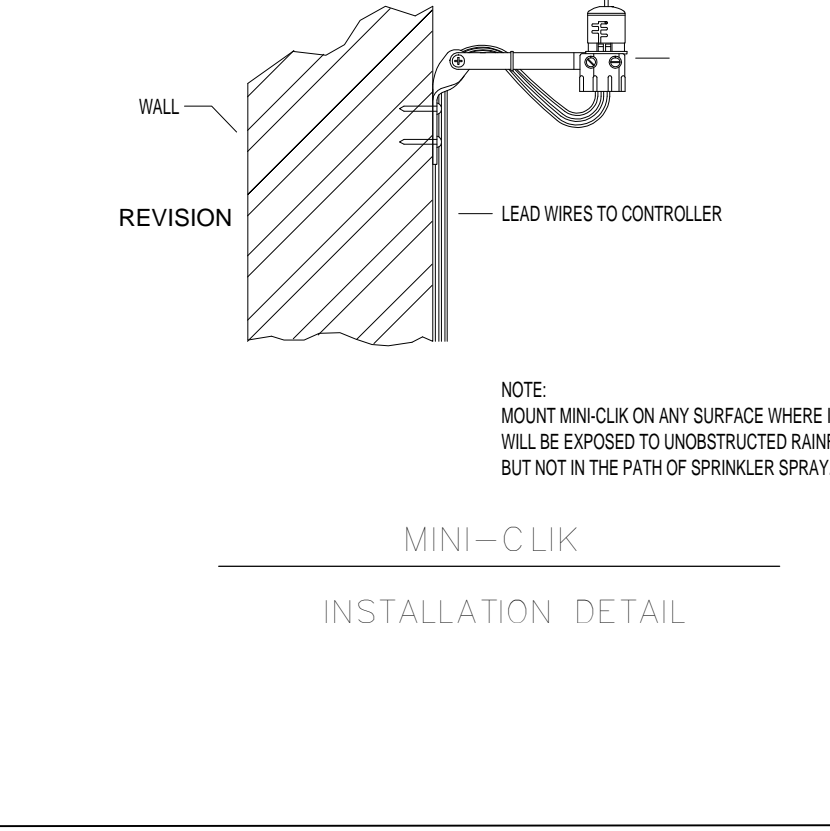
FLUSH VALVE



AIR RELIEF VALVE



THRUST BLOCK



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

Approved Construction Plan

Name _____ Date _____

Planning _____

Public Utilities _____

Traffic _____

Fire _____

NO.	REVISION	DATE
1	REVISIONS	05-08-2019
2	REVISIONS	05-10-2019

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05-10-2019

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SHEET TITLE:
IRRIGATION
DETAILS

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IR-2