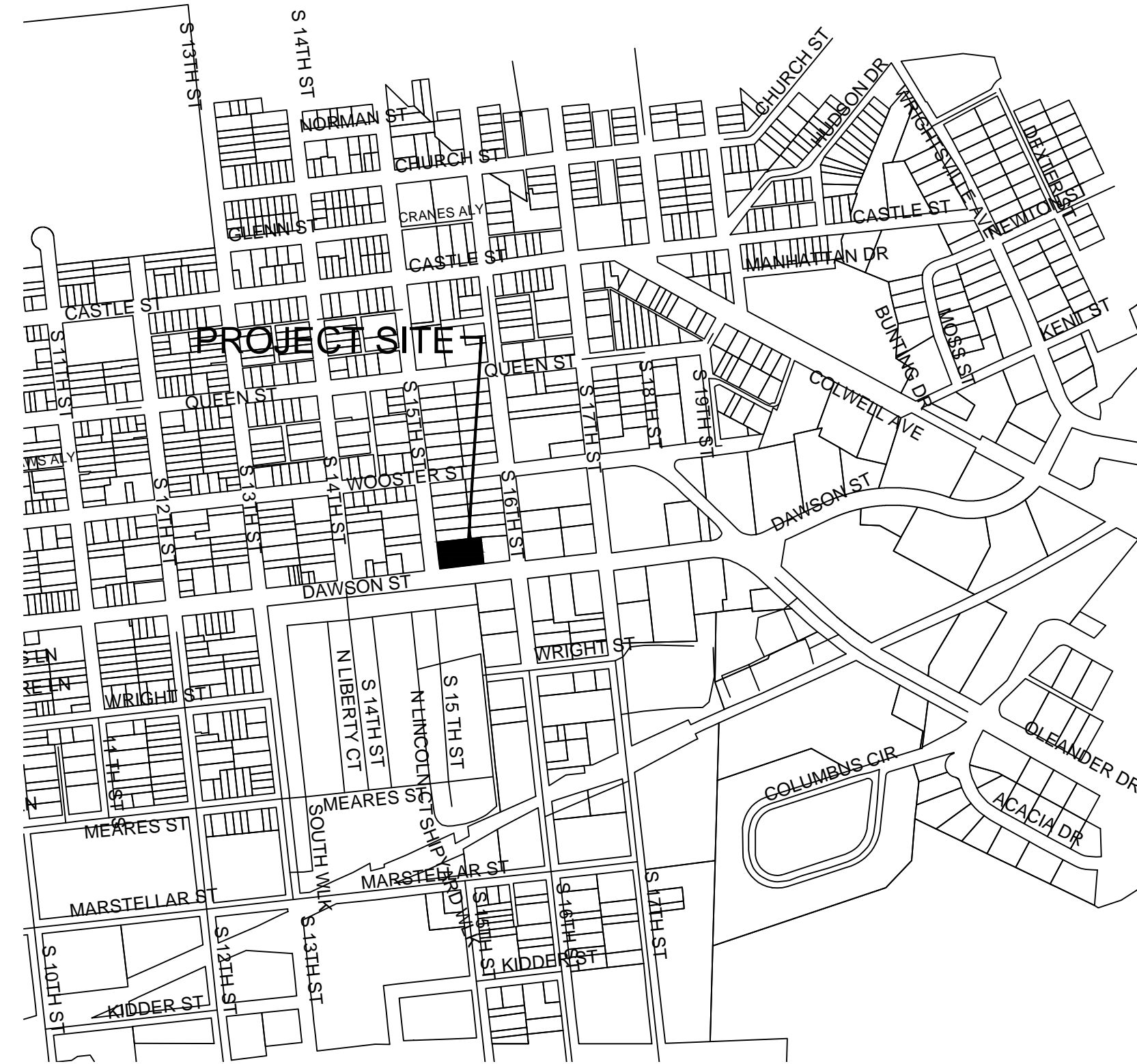
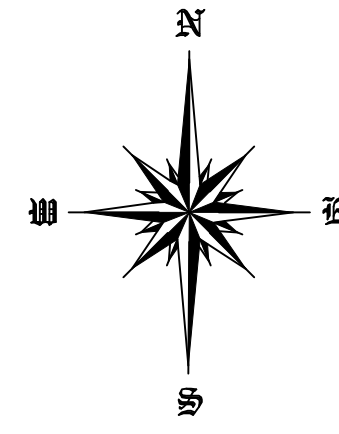


SITE CONSTRUCTION PLANS WILMINGTON WASH HOUSE

1507 DAWSON STREET
WILMINGTON, NC 28403

NOTES

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING (IF REQUIRED) WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION.
- 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 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 DRIVEWAY ARE TO BE THERMO PLASTIC 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 SIGN NAMES.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD STANDARDS AND BE MAINTAINED BY THE OWNER.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- TRAFFIC ENGINEERING TO BE NOTIFIED AT 341-7888 FORTY-EIGHT 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 PARKING AREAS SHALL BE WHITE. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY FOR DRIVEWAY ARE TO BE THERMO PLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEEL CHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY DETAILS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH CFPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- IF THE CONTRACTOR DESIRES CFPWA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST SUPPLY A RPZ BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA SHALL COMPLY WITH THE CFPWA CROSS CONNECTION REGULATIONS.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZE SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCOCCR OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF CONFLICTS.
- AN ALL WEATHER DRIVING SURFACE FOR EMERGENCY VEHICLES MUST BE MAINTAINED DURING CONSTRUCTION.
- UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC ROW TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT/DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (TEN) FEET ABOVE THE GROUND WITHIN THE TRIANGLE SIGHT DISTANCE.
- CONTRACTOR IS TO NOTIFY (AT A MINIMUM) THE FOLLOWING COMPANIES FOR LOCATION SERVICES:
ULOGO1-800-632-4949, 48 HOURS IN ADVANCE
BELL SOUTH.....1-800-392-8712 (STEVE DAYVAULT)
CAROLINA ONE CALL CENTER 1-800-632-4949
- THERE SHALL BE NO ENCUMBRANCES WITHIN THE NCDOT RIGHT OF WAY.
- A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT (SD 15-14 C&PW TECH STDS).
- FIRE HYDRANTS CANNOT BE FURTHER THAN 8' FROM THE CURB.
- PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS OF FDC'S
- FDC'S CAN BE NO FURTHER THAN 40' FROM FIRE DEPARTMENT VEHICLE PLACEMENT
- FDC'S CAN BE NO FURTHER THAN 150' FROM A FIRE HYDRANT
- BICYCLE PARKING IS PROVIDED ON THE SOUTHWEST CORNER OF PROPOSED BUILDING
- ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.



SCALE 1" = 600'
VICINITY MAP
APRIL, 2018

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

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

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

LIST OF DRAWINGS

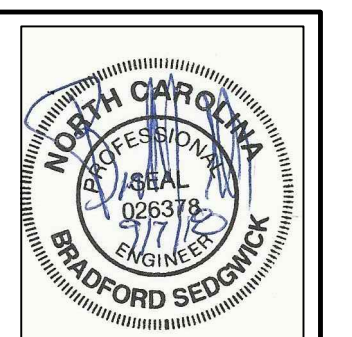
XX	COVER SHEET
C1	EXISTING SITE & DEMO PLAN
C2	SITE PLAN
C3	GRADING, DRAINAGE & EROSION CONTROL
C4	DETAILS
C5	LANDSCAPE PLAN
C6	NCDOT DRIVEWAY PERMIT PLAN
WSD-1	WATER DETAILS

OWNER/DEVELOPER
MR. RODNEY WILLIFORD
RKW PROPERTIES, LLC
7986 HWY 11 BUSINESS
BETHEL, NC 27812
1-252-714-5838

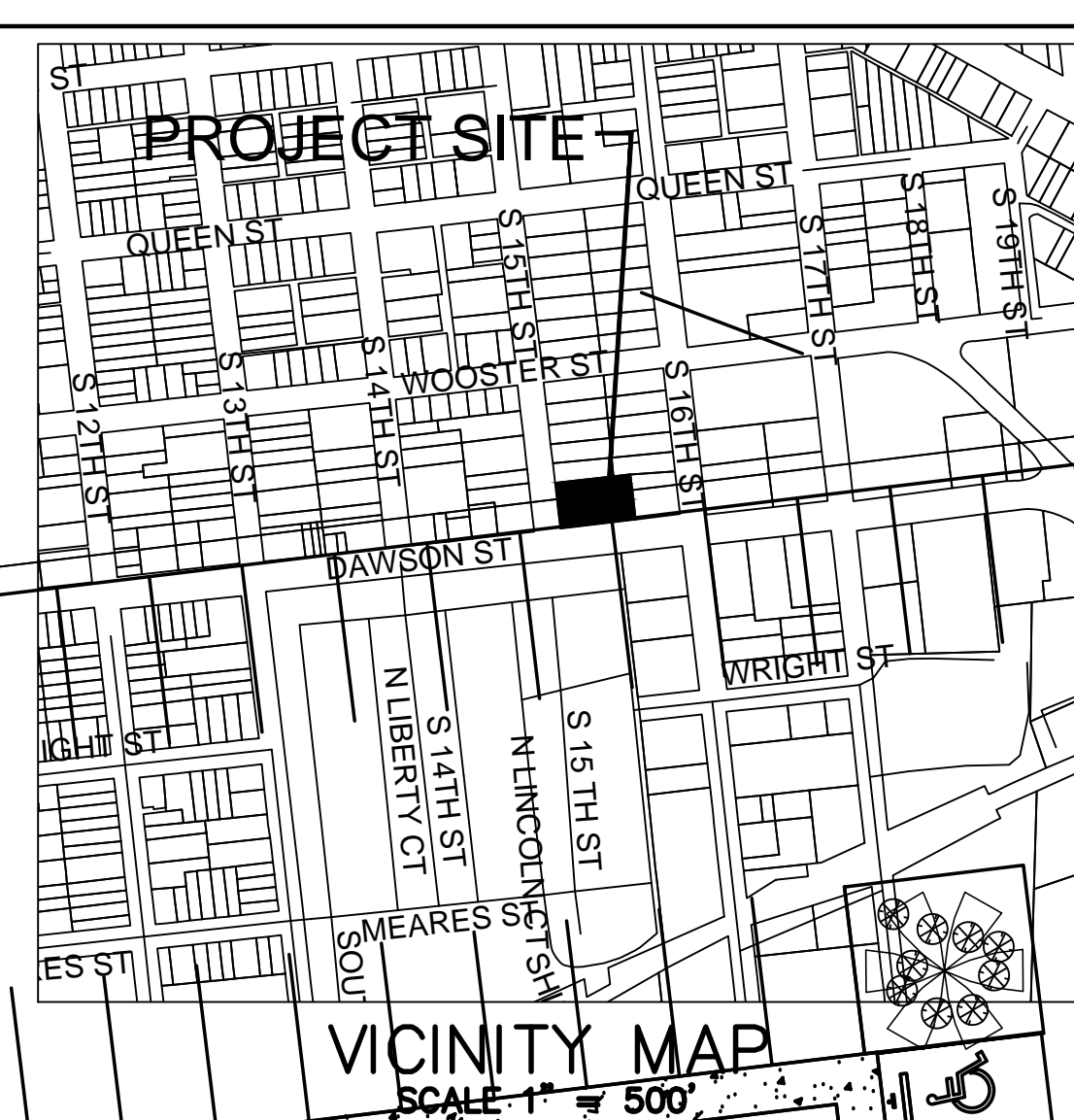
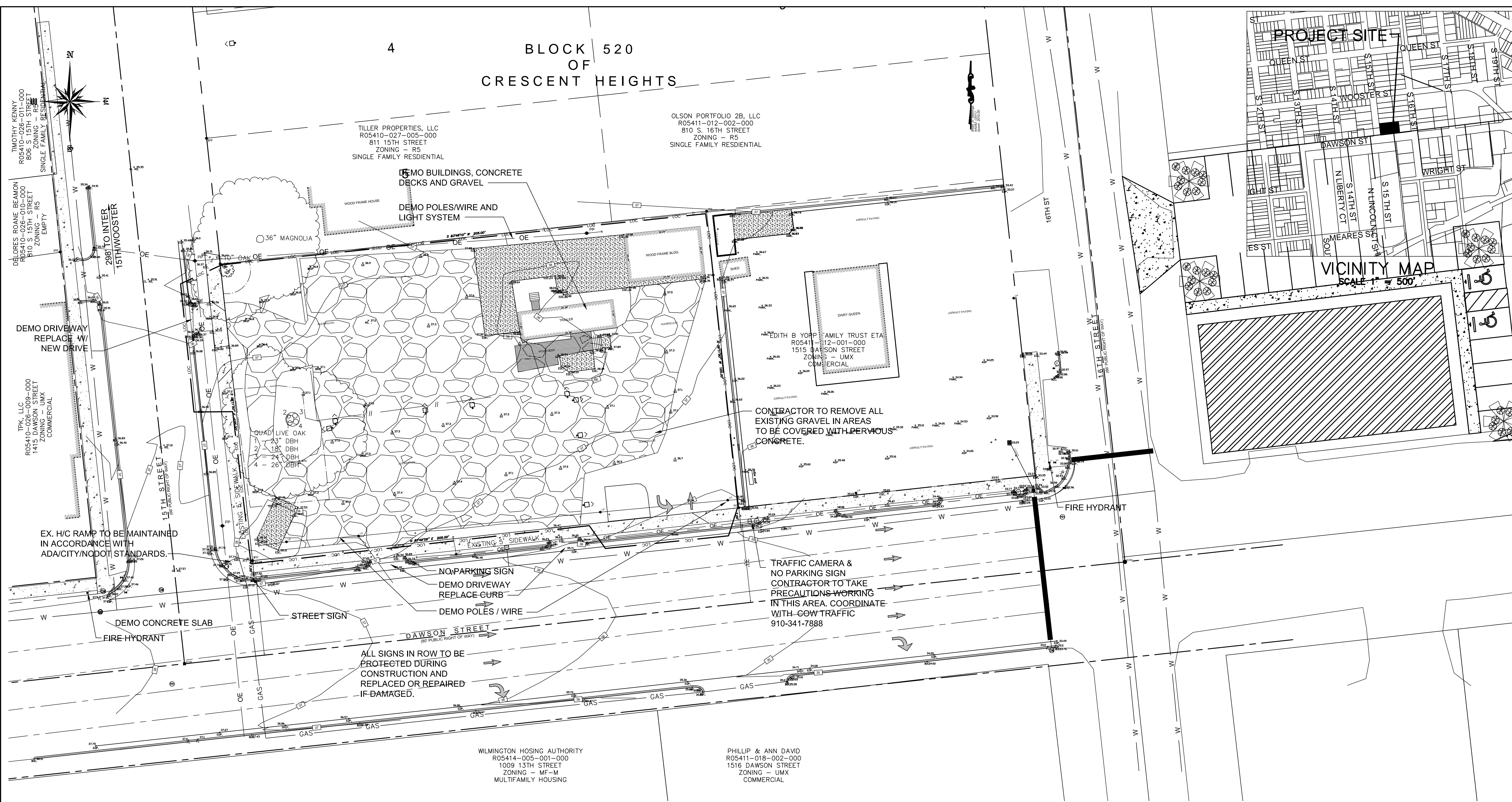
CIVIL ENGINEER
JBS CONSULTING, PA
BRAD SEDGWICK, PE
7332 COTESWORTH DRIVE
WILMINGTON, NC 28405
1-910-619-9990
bradsedgwick@hotmail.com

SURVEYOR
GEOINNOVATION, PC
MR. DEAN EXLINE, PLS
311 JUDGES ROAD
SUITE 3D
WILMINGTON, NC 28405
1-910-367-2110
dexline@gisspc.com

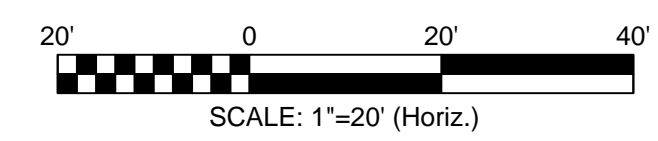
GENERAL CONTRACTOR
TMC TAYLOR
MR. GREG TAYLOR
1406 CASTLE HAYNE ROAD
WILMINGTON, NC 28401
910-251-1181



4 BLOCK 520 OF CRESCENT HEIGHTS



EXISTING SITE
SCALE 1" = 20'



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

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

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

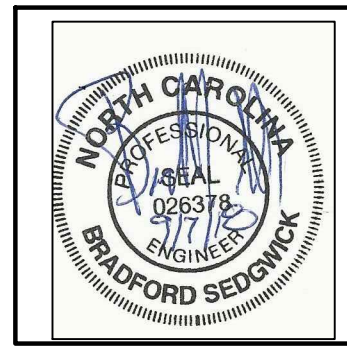
LEGEND

- EXISTING GRAVEL PAVEMENT
- CONC. PAVEMENT
- PERVIOUS CONCRETE
- PROPOSED SPOT ELEVATION 38.20
- EXISTING SPOT ELEVATION 36.7
- WAVE STYLE BIKE RACK
- TREE PROTECTION FENCING SEE DETAIL
- BUILDING GUTTER & DOWN SPOUT SYSTEM - SURFACE DISCHARGE TOWARD PAVEMENT

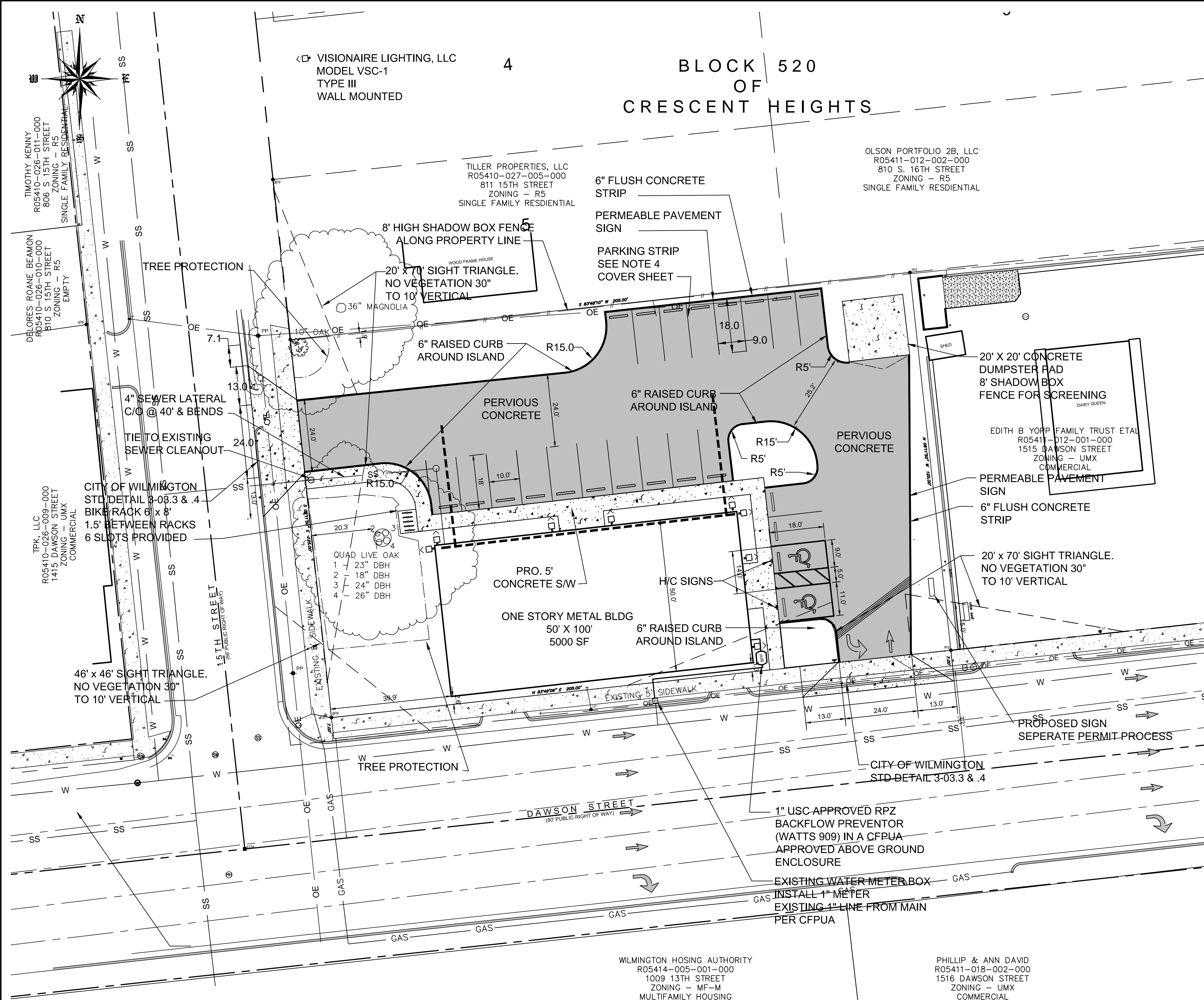
DESIGN BY:	BDS
DRAWN BY:	BDS
CHECKED BY:	BDS
DATE:	APRIL, 2018

EXISTING SITE & DEMO PLAN
1507 DAWSON STREET
WILMINGTON, NC

OWNER/DEVELOPER
MR. RODNEY WILLIFORD
RKW PROPERTIES, LLC
7986 HWY 11 BUSINESS
BETHEL, NC 27812
1-252-714-5838



JBS CONSULTING, PA
7332 Catesworth Drive
Wilmington, NC 28405
(910) 619-9990
LICENSE NUMBER C2523
PLANNING - ENGINEERING - CONSTRUCTION MANAGEMENT



SITE DATA

ADDRESS 1507 DAWSON ST
WILMINGTON, NC

PARCEL ID NUMBERS R05410-027-006-000

DEED BOOK & PAGE D.B. 6133 PG. 510

MAP BOOK & PAGE MB N/A PG. N/A

ZONING UMX - URBAN MIXED USE
CITY OF WILMINGTON

TOTAL LOT AREA +/- 25,625 SF/0.59ACRES

CAMA LAND USE CLASSIFICATION .. URBAN

SPECIAL OVERLAY DISTRICT.....NONE

PROPOSED USE.....LAUNDRY MAT

NUMBER OF BUILDINGS 1 PROPOSED

BUILDING SQUARE FOOTAGE..... 5,000 SF

CONSTRUCTION TYPE..... II B

BUILDING COVERAGE..... 5000 SF / 25,625 SF = 19.35%

UMX - REQUIREMENTS

REQUIRED	PROPOSED
MIN. LOT AREA	N/A
MIN. LOT WIDTH	0.57 ACRES
MAX. LOT COVERAGE	330 FT
FRONT BUILDING SETBACK	20.1%
SIDE BUILDING SETBACK	0'
MAX. BLDG HEIGHT	0'
	34.5'
	18' EAVE HEIGHT

PARKING REQUIREMENTS

NO MINIMUM PARKING REQUIREMENTS PER UMX

PARKING PROVIDED 20 REGULAR + 2 HIC = 22 TOTAL

BICYCLE PARKING

6 PROVIDED

PROPOSED BUA

SEE TABLE BELOW

LIMITS OF DISTURBANCE + 27,322 SF

SOLID WASTE

SOLID WASTE DISPOSAL WILL BE A DUMPSTER, SCREENING VIA 8' SHADOW BOX FENCE.

UTILITY INFORMATION

WATER: 000 GPD (CURRENT USE)
8,000 GPD (PROPOSED USE)

USE BASED ON SIMILAR FACILITY IN JACKSONVILLE BY SAME OWNER

SEWER: 000 GPD (CURRENT USE)
8,000 GPD (PROPOSED USE)

STORMWATER CLASSIFICATION

RECEIVING STREAM MINERAL SPRINGS BRANCH

RIVER BASIN CAPE FEAR

STREAM INDEX NUMBER 18-74-63.2-1

WATER CLASSIFICATION C:SW

HYAC EQUIPMENT TO BE MOUNTED ON ROOF.

FLOOD INFO

ZONE X - MINIMAL RISK

PANEL 3127

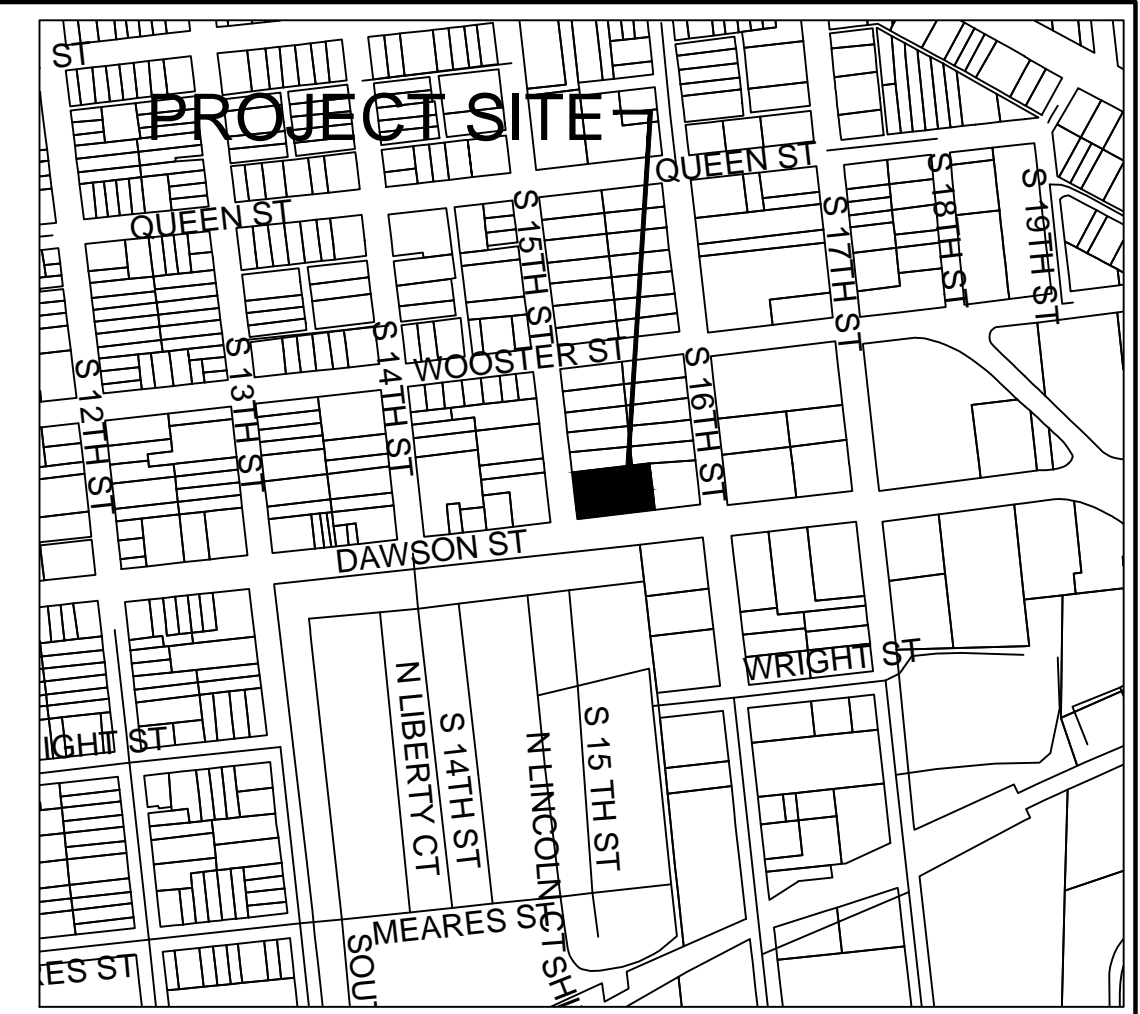
MAP NUMBER #3720312700J

5/2/2006

BUA Summary - 1507 Dawson Street

Existing	Ex. Buildings	1128
Ex. Concrete	1865	
Ex. Gravel	16366	
TOTAL EX. BUA	19359 sf	

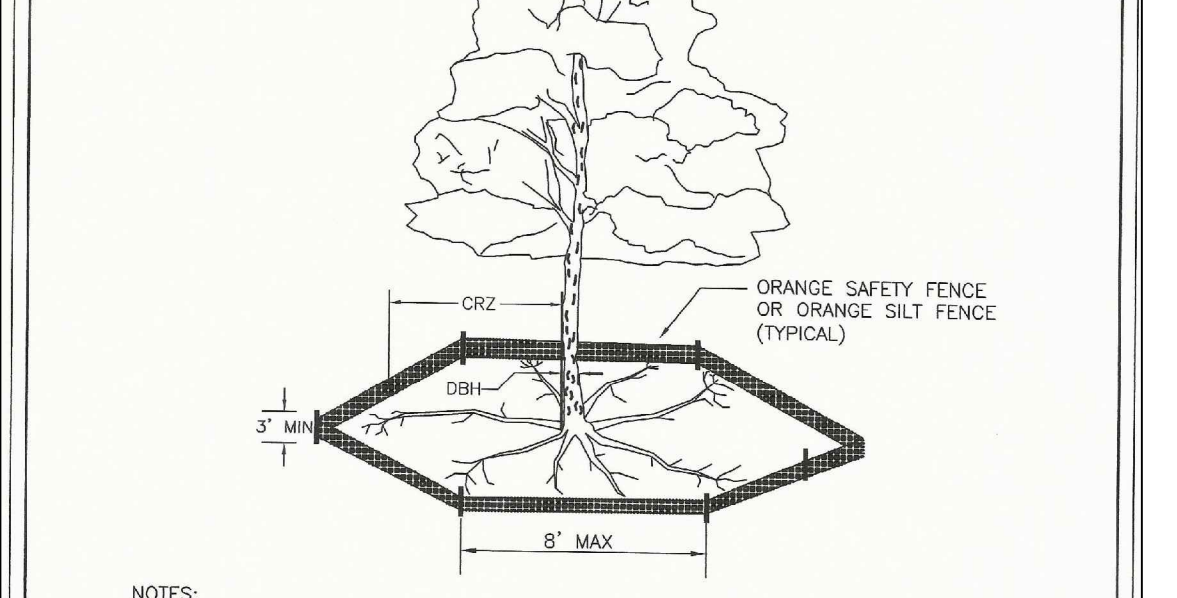
Proposed	Impervious	Previous
Pro Building	5000	
Pro Sidewalk	1266	
Pro Dumpster Pad	400	
Pro Parking	0	10956
Total Proposed BUA	6666	10956



VICINITY MAP
SCALE 1" = 500'

NOTE: THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE: CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.



- NOTES:**
- PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 - CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
 - IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 - WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
 - FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO EQUIPMENT SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR LAWNMOVERS, CONSTRUCTION EQUIPMENT OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
 - FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

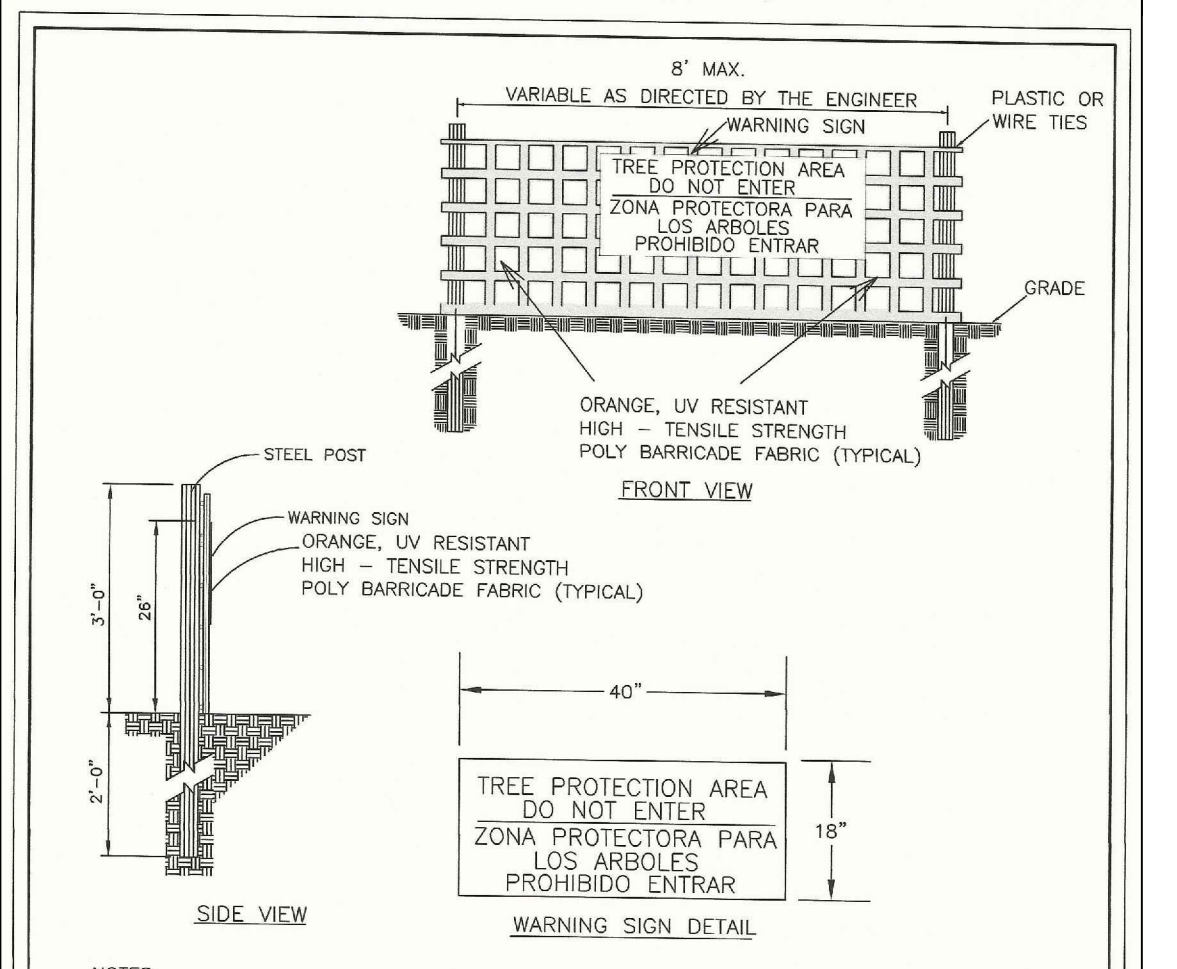
STANDARD DETAIL

TREE PROTECTION DURING CONSTRUCTION

DATE: JAN, 2015
DRAWN BY: JSK
CHECKED BY: RDG, P.E.
SCALE: NOT TO SCALE

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

SHEET 1 of 2
SD 15-09



- NOTES:**
- THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 - WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 - SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
 - ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
 - TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
 - ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

STANDARD DETAIL

TREE PROTECTION DURING CONSTRUCTION

DATE: JAN, 2015
DRAWN BY: JSK
CHECKED BY: RDG, P.E.
SCALE: NOT TO SCALE

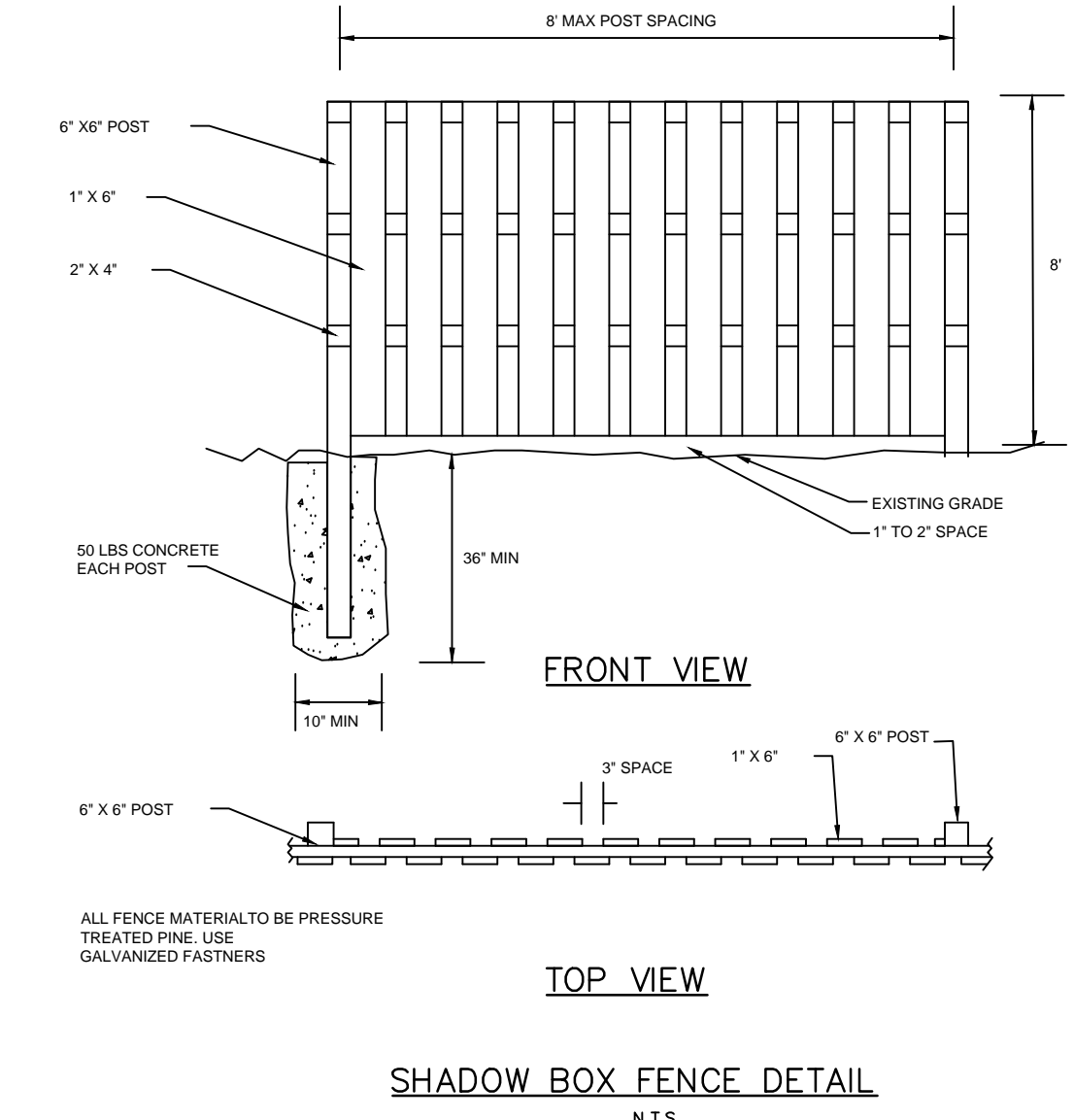
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SHEET 2 of 2
SD 15-09

SITE PLAN
SCALE 1" = 20'

LEGEND

EXISTING GRAVEL PAVEMENT	
CONC. PAVEMENT	
PERVIOUS CONCRETE	
PROPOSED SPOT ELEVATION	39.20
EXISTING SPOT ELEVATION	36.7
WAVE STYLE BIKE RACK	
TREE PROTECTION FENCING SEE DETAIL	
BUILDING GUTTER & DOWN SPOUT SYSTEM - SURFACE DISCHARGE TOWARD PAVEMENT	



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

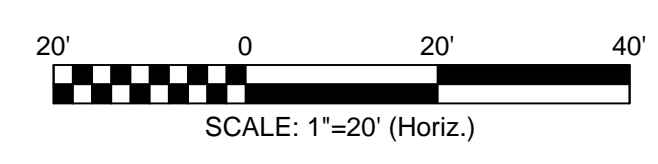
Date: _____ Permit # _____

Signed: _____

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

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



REVISION	DATE	DESCRIPTION

ADDRESSED BY: 13-18 TRC COMMENTS

7/26/18

DESIGN BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: APRIL, 2018

SITE PLAN

1507 DAWSON STREET
WILMINGTON, NC

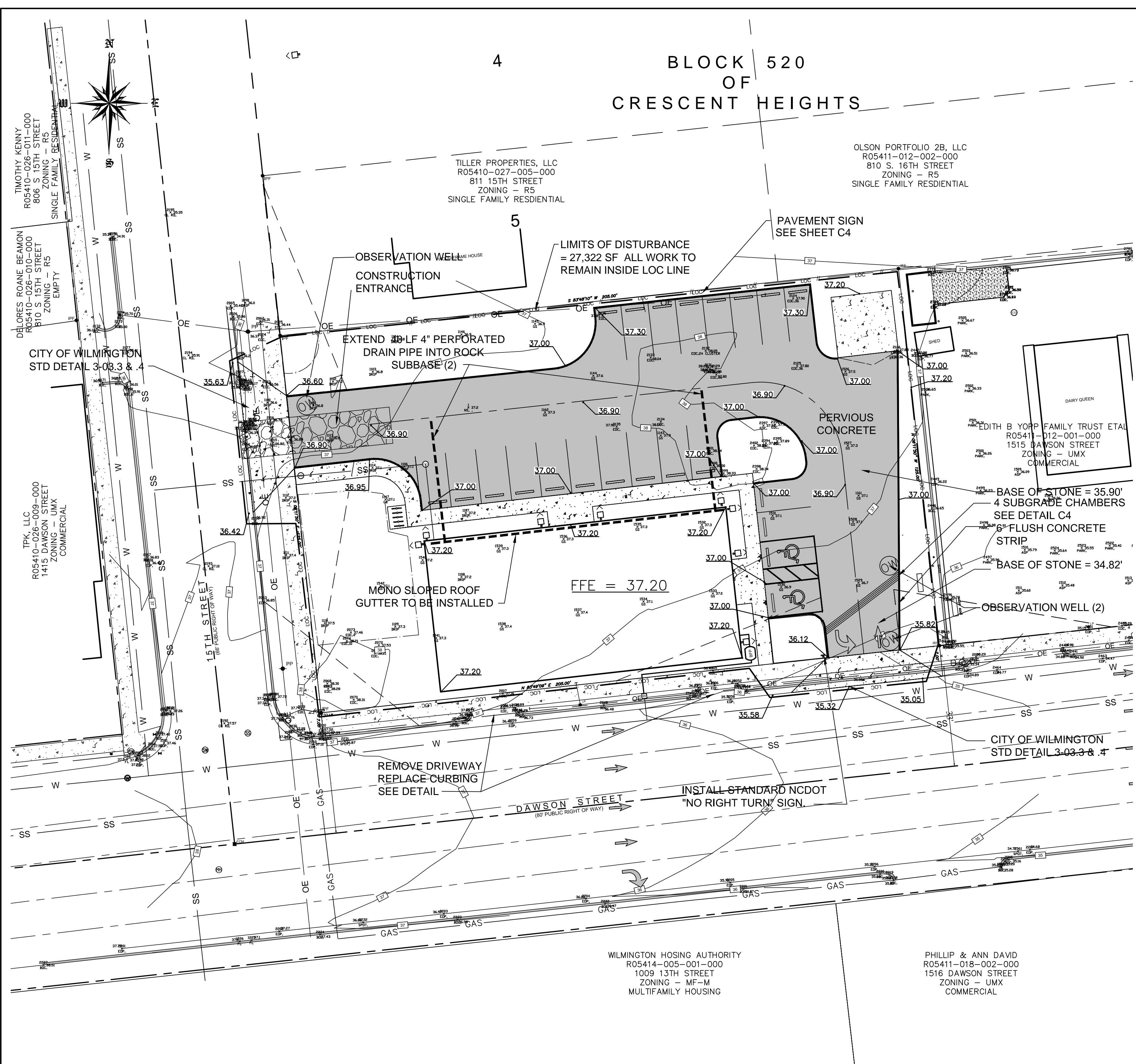
OWNER/DEVELOPER
MR. RODNEY WILLIFORD
RKW PROPERTIES, LLC
7986 HWY 11 BUSINESS
BETHEL, NC 27812
1-252-714-5838

JBS CONSULTING, PA
7332 Colesworth Drive
Wilmington, NC 28405
(910) 619-9990
LICENSE NUMBER C2523
PLANNING • ENGINEERING • CONSTRUCTION MANAGEMENT

SHEET C2 of X

JOB NO. 032-025

4 BLOCK 520 OF CRESCENT HEIGHTS



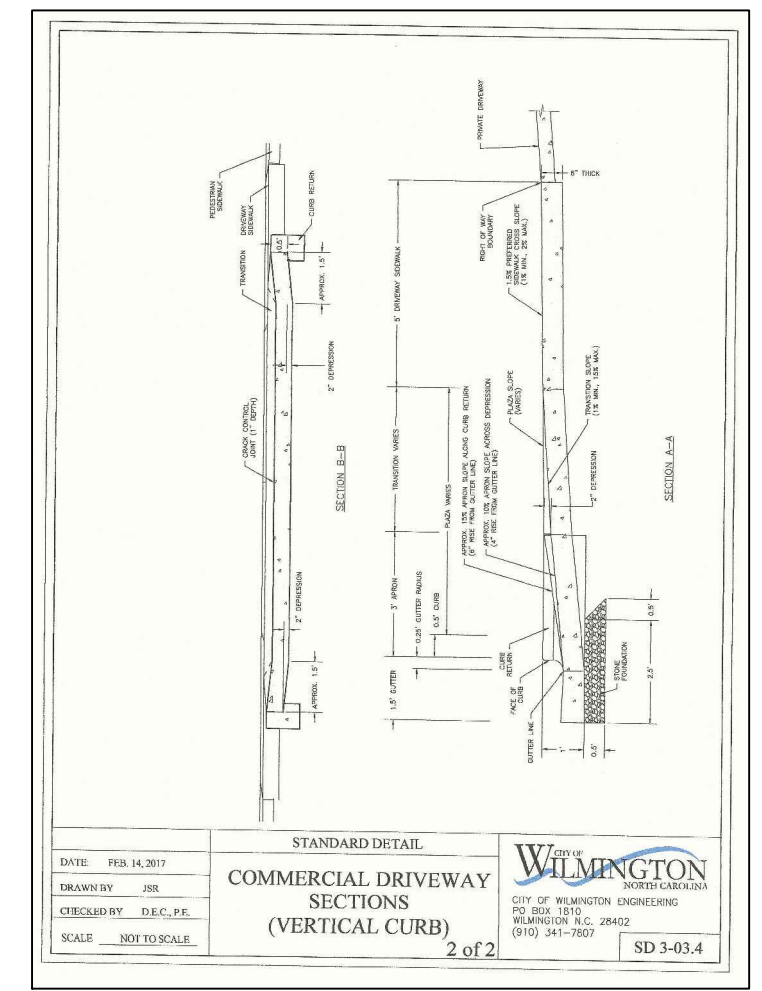
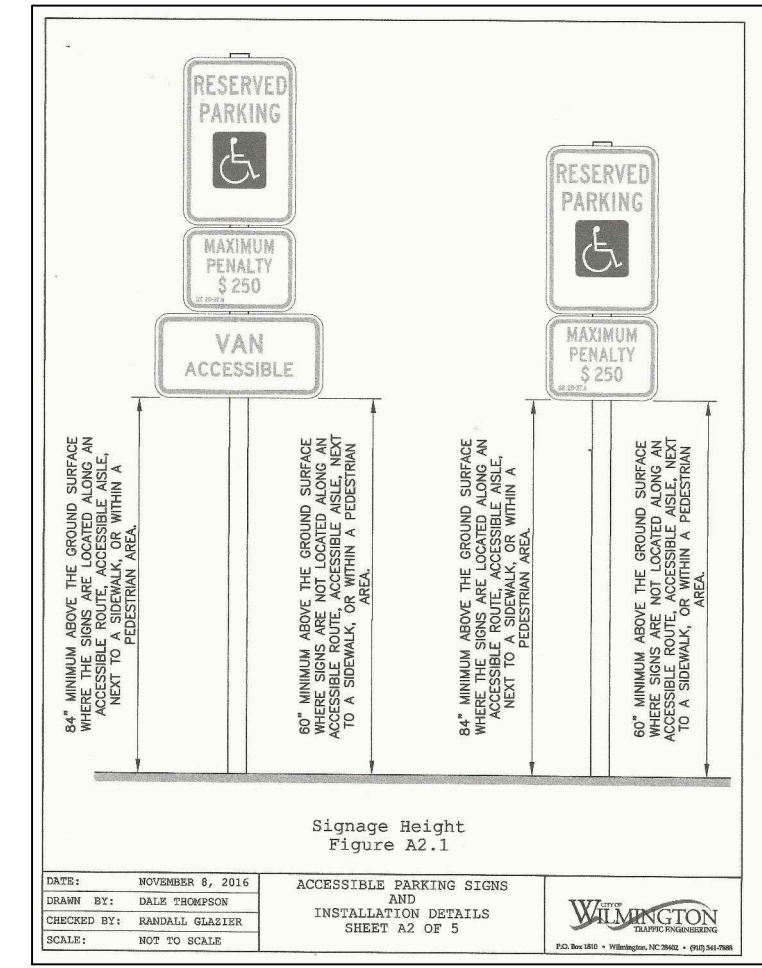
GRADING, DRAINAGE & EROSION CONTROL
SCALE 1" = 20'

LABEL	1) GROUND STABILIZATION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
[Pattern]	PERIMETER DIKES, DITCHES AND SLOPES	7 DAYS	NONE
	HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
	SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1 14 DAYS ARE ALLOWED
[Pattern]	SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
	ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HOW ZONES)

- 2) BUILDING WASTES HANDLING
- NO PAINT OR LIQUID WASTES IN STREAM OF STORM DRAINS
 - DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE
 - LEATHER-MATERIALS STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE
 - CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.
- 3) INSPECTIONS
- SAME WEEKLY INSPECTION REQUIREMENTS
 - SAME RAIN GAUGE & INSPECTIONS AFTER 0.5" RAIN EVENT
 - INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"
 - INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXCEPTION IS APPROVED
 - RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST
 - ELECTRONICALLY-AVAILABLE RECORDS MAY BE SUBSTITUTES UNDER CERTAIN CONDITIONS
- 4) SEDIMENT BASINS
- OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACES UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE
 - USE ONLY DWG-APPROVED FLOCCULANTS

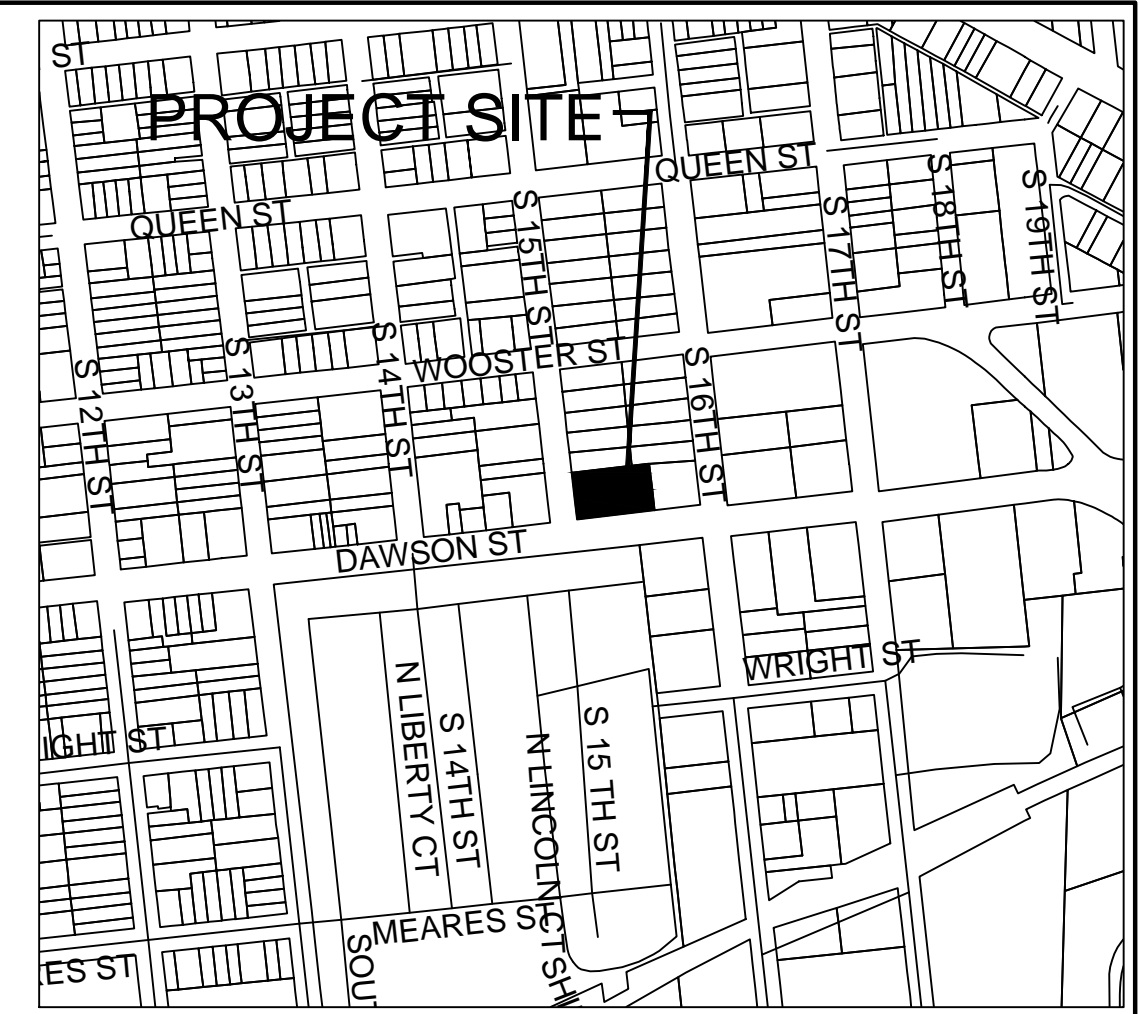
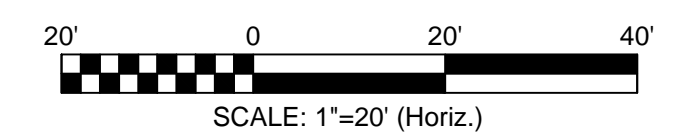
NPDES - SPECIFIC PLAN SHEET NOTES

- THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG000000.
- THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG000000 ONLY.
- THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG000000.
- THE COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT PART OF THE APPROVED PLANS FOR THE PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE.



LEGEND

EXISTING GRAVEL PAVEMENT	[Pattern]
CONC. PAVEMENT	[Pattern]
PERVIOUS CONCRETE	[Pattern]
PROPOSED SPOT ELEVATION	39.20
EXISTING SPOT ELEVATION	35.6, 36.7
WAVE STYLE BIKE RACK	[Symbol]
TREE PROTECTION FENCING SEE DETAIL	[Symbol]
BUILDING GUTTER & DOWN SPOUT SYSTEM - SURFACE DISCHARGE TOWARD PAVEMENT	[Symbol]



VICINITY MAP
SCALE 1" = 500'

GRADING NOTES

- INITIATE EROSION CONTROL SEQUENCE BEFORE BEGINNING CLEARING, GRUBBING AND GRADING OPERATIONS.
- CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
- STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED AND STOCKPILE.
- COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY.
- ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO GREATER THAN 3:1 SLOPES.
- ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR.
- PROPOSED SPOT ELEVATIONS ARE SHOWN AT FINISHED GRADE.
- OPERATOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.

CONSTRUCTION SEQUENCE

- A SEDIMENTATION & EROSION CONTROL PERMIT IS NOT REQUIRED FOR THIS PROJECT. REGARDLESS THE CONTRACTOR SHALL FOLLOW ALL MEASURES AS SHOWN ON THIS PLAN.
- N/A
- INSTALL GRAVEL CONSTRUCTION ENTRANCE AND SILT FENCE, COMMENCE CLEARING AND ROUGH GRADING OPERATIONS.
- ROUGH GRADE SITE AND INSTALL UNDERGROUND UTILITIES.
- PROVIDE TEMPORARY PROTECTION MEASURES AND DEVICES AS REQUIRED UNTIL UNDERGROUND UTILITIES AND PAVEMENT SECTION IS COMPLETE AND FINAL GRADES ARE STABILIZED WITH TEMPORARY VEGETATIVE COVER.
- STABILIZE (FERTILIZE, SEED, AND MULCH) ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
- ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED, REMOVE TEMPORARY EROSION CONTROL MEASURES.

EROSION CONTROL MAINTENANCE PLAN

- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF - PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- GRAVEL CONSTRUCTION ENTRANCE TO BE CLEANED WHEN SEDIMENT ACCUMULATIONS ARE VISIBLE OR SEDIMENT IS DEPOSITED ON THE ASPHALT AND STONE WILL BE PERIODICALLY TOP DRESSED WITH 2 INCHES OF #4 STONE TO MAINTAIN 6 INCH DEPTH.
- INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1" OR GREATER) RAINFALL EVENT. CLEAR THE 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.
- ALL AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

EROSION CONTROL NOTES

- ANY CONSTRUCTION ACTIVITY BEYOND THE 0.51 ACRE LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO FINES.
- CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN ROAD RIGHT OF WAYS UNLESS OTHERWISE DESIGNATED TO REMAIN.
- CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITH IN THE LIMITS OF CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY UNSUITABLE SOILS.
- CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
- THE CONTRACTOR SHALL FURNISH ANY REQUIRED BORROW MATERIALS FROM A PROPERLY PERMITTED OFF-SITE FACILITY.
- ALL GRADED SLOPES MUST BE SEEDED AND MULCHED WITHIN 21 CALENDAR DAYS OF COMPLETION OF GRADING, STABILIZE AREAS OTHER THAN SLOPES WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPARTMENT.
- SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
- ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.
- IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 CALENDAR DAYS, ALL DISTURBED AREAS MUST BE SEED, MULCH, AND TACKED.

REVISION	DATE	DESCRIPTION
R1	7/26/18	7/26/18 TRC COMMENTS

City of Wilmington North Carolina
Public Services • Engineering Division
APPROVED DRAINAGE PLAN

Date: _____ Permit # _____

Signed: _____

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

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

DESIGN BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: APRIL, 2018

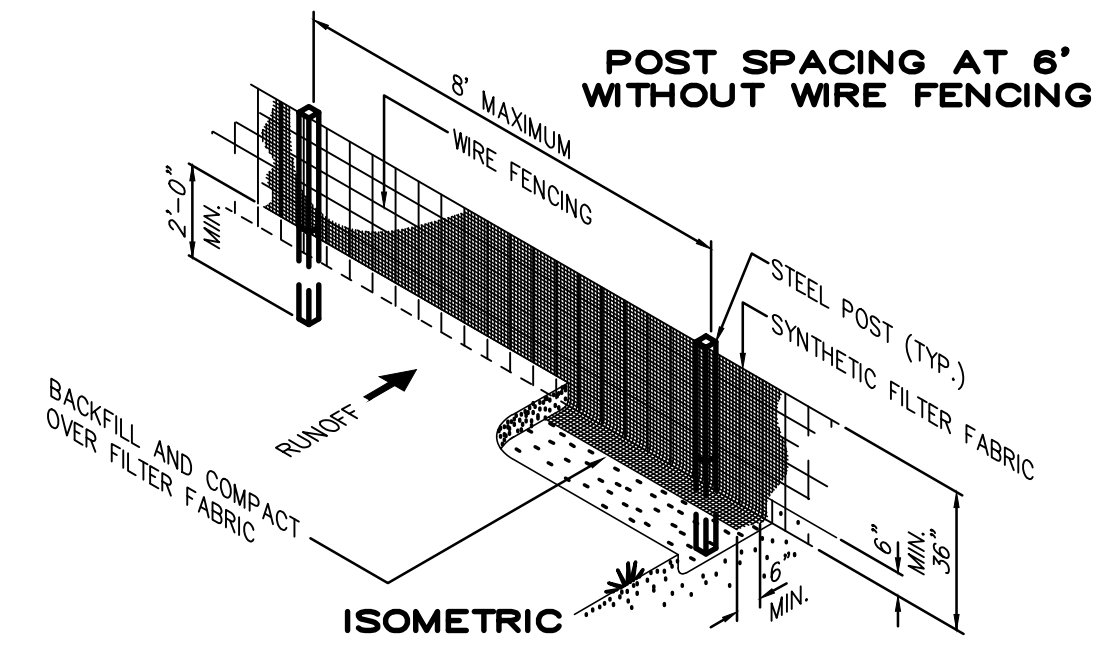
GRADING, DRAINAGE & EROSION CONTROL
1507 DAWSON STREET
WILMINGTON, NC

OWNER/DEVELOPER
MR. RODNEY WILLIFORD
RKW PROPERTIES, LLC
7986 HWY 11 BUSINESS
BETHEL, NC 27812
1-252-714-5838

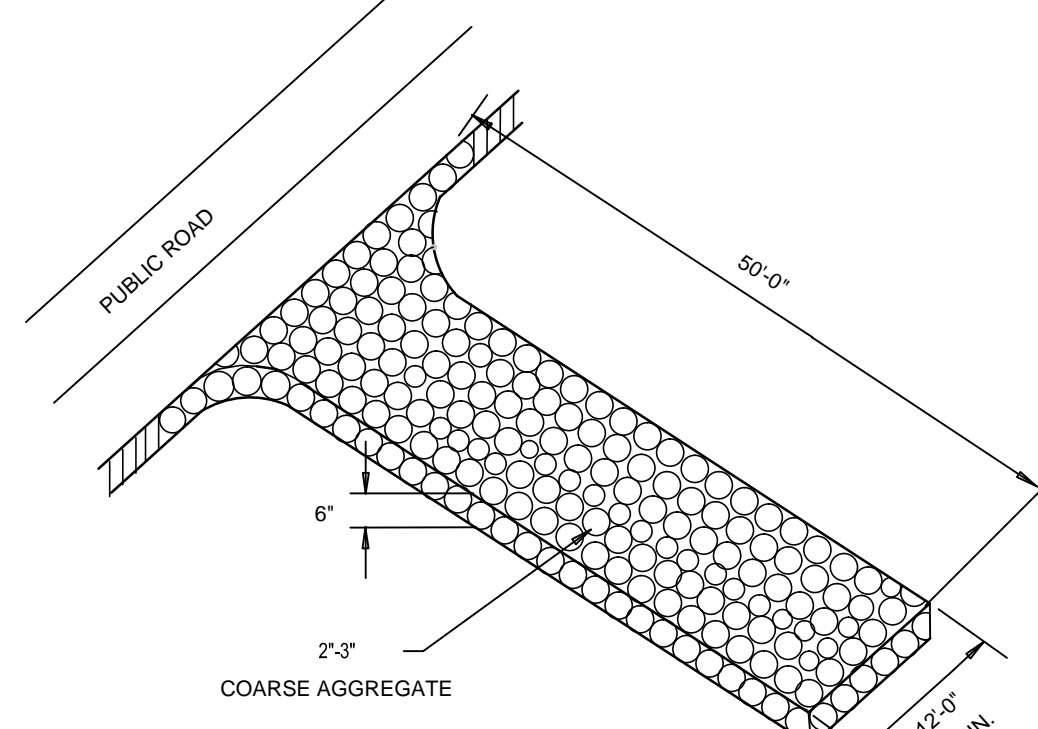
CONSULTING, PA
7332 Coatesworth Drive
Wilmington, NC 28405
(910) 619-9990
LICENSE NUMBER C2523

PLANNING - ENGINEERING - CONSTRUCTION MANAGEMENT

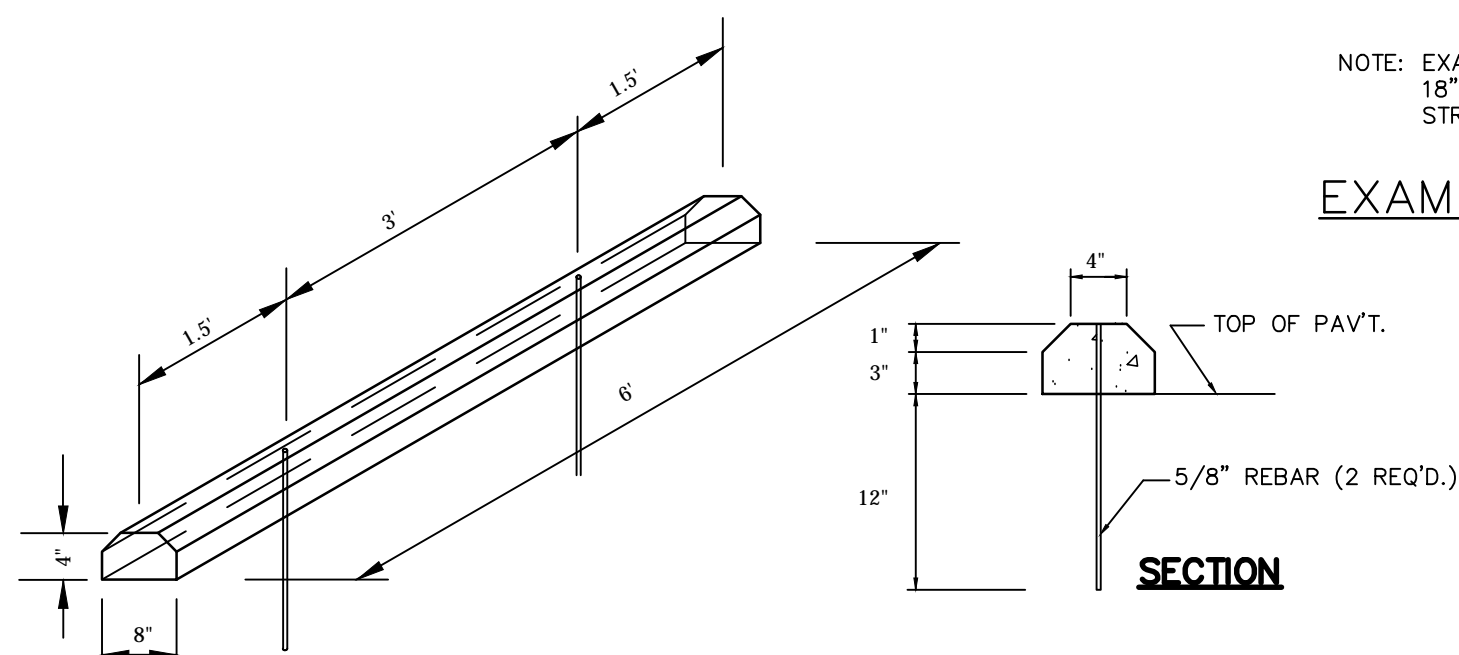
SHEET
C3 of X
JOB NO. 032-025



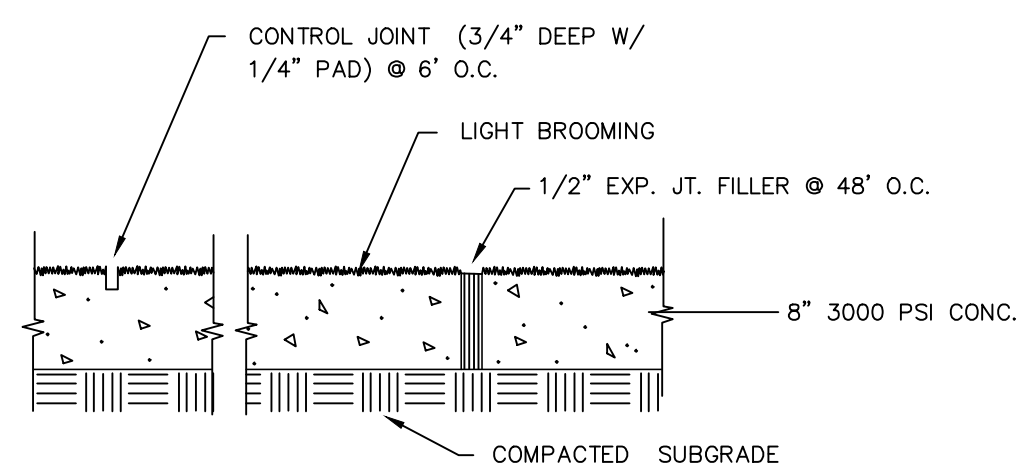
SILT FENCE DETAIL
NOT TO SCALE



CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE

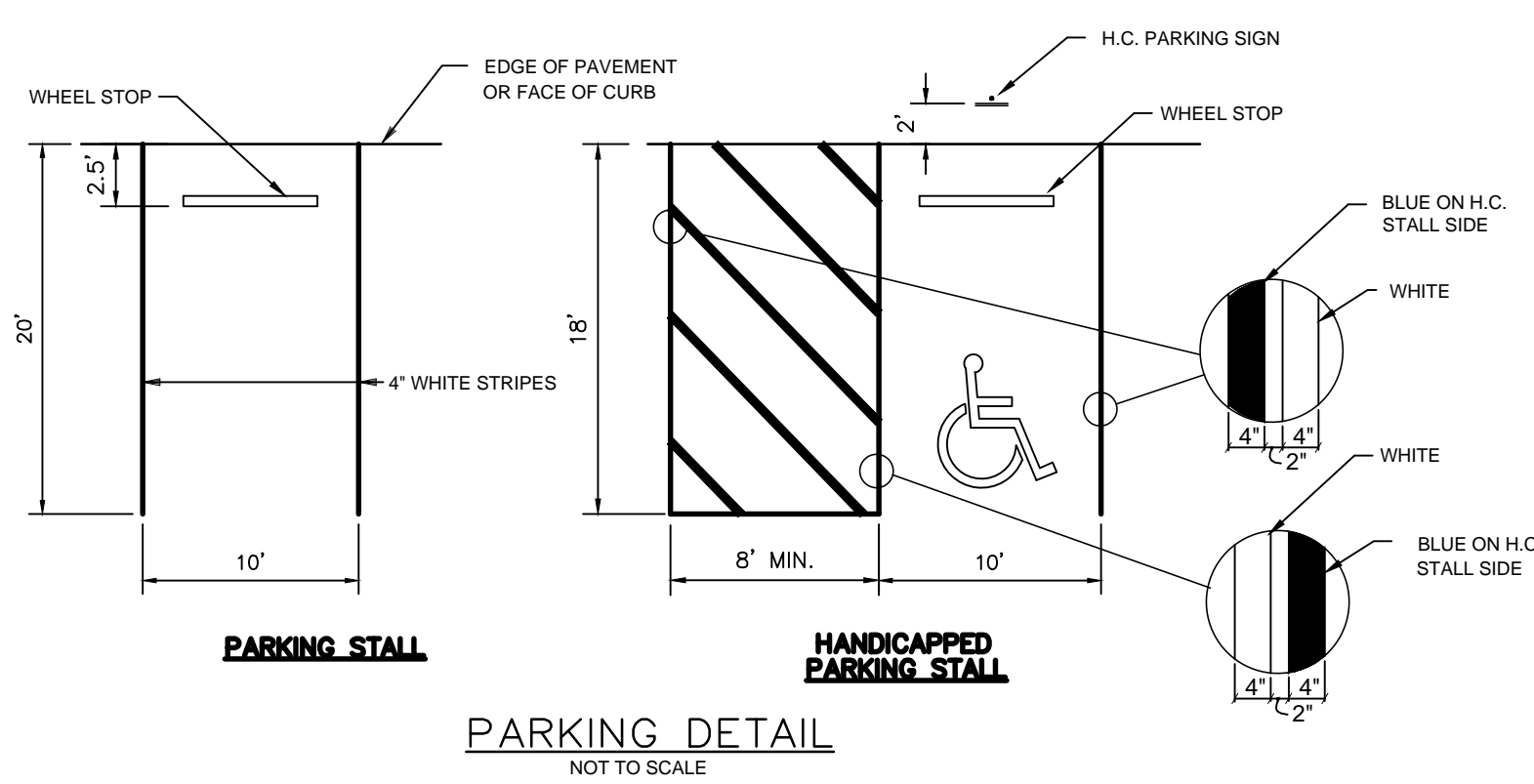


WHEEL STOP DETAIL
NOT TO SCALE



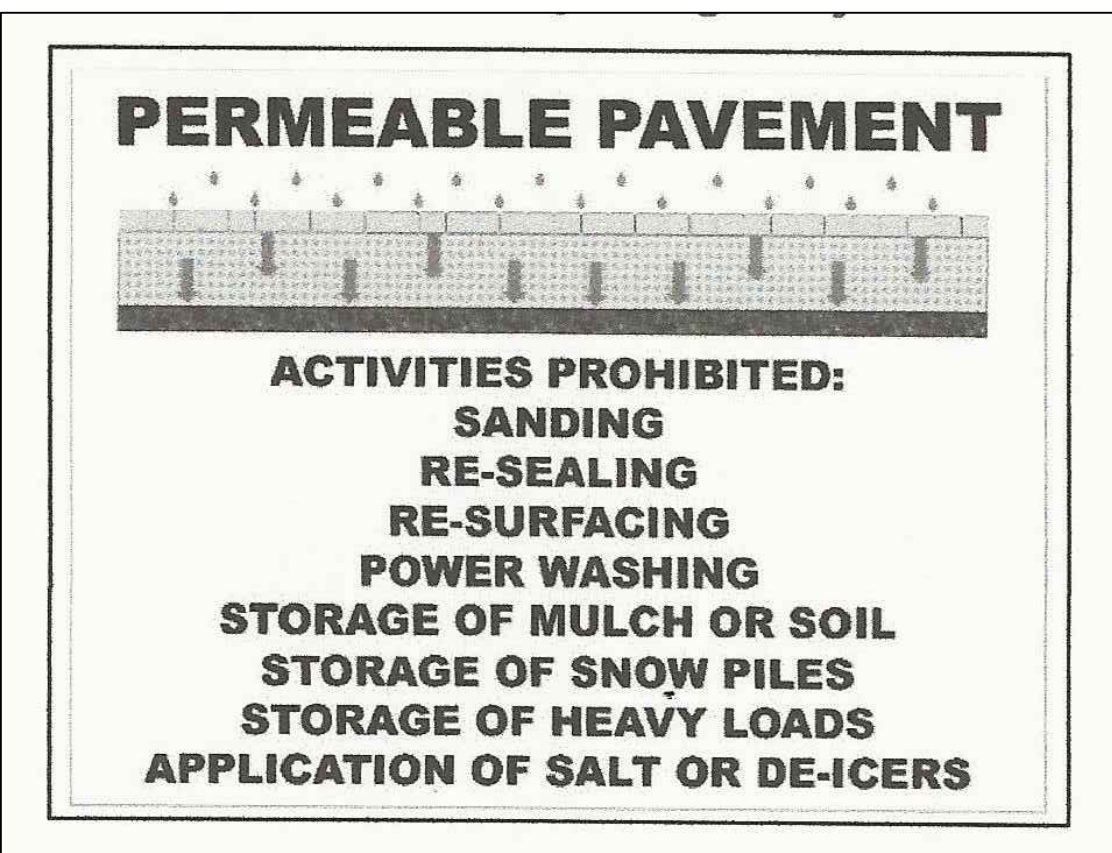
NOTES: ALL EDGES TO BE EDGED W/ 1/4" PAD

CONCRETE SECTION
NOT TO SCALE
DUMPSTER PAD



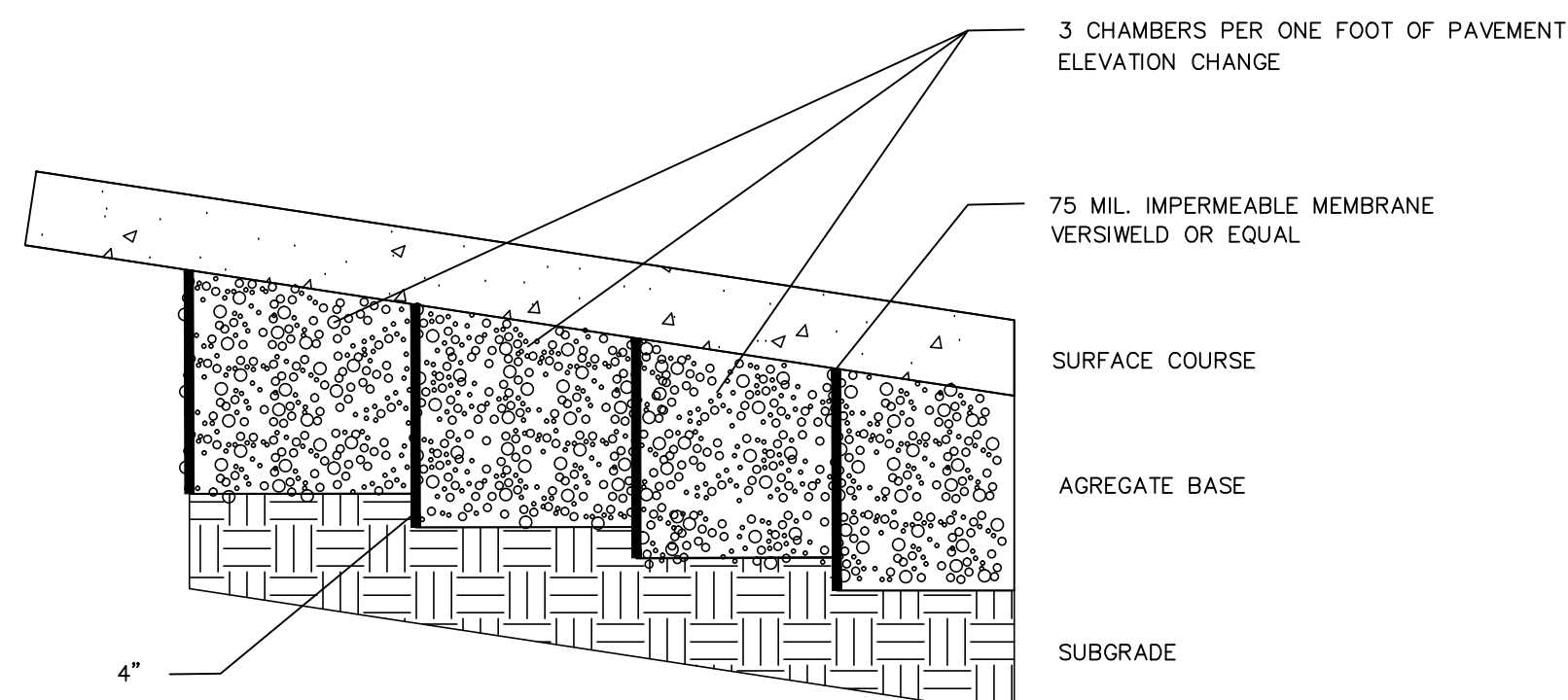
PARKING STALL

PARKING DETAIL
NOT TO SCALE

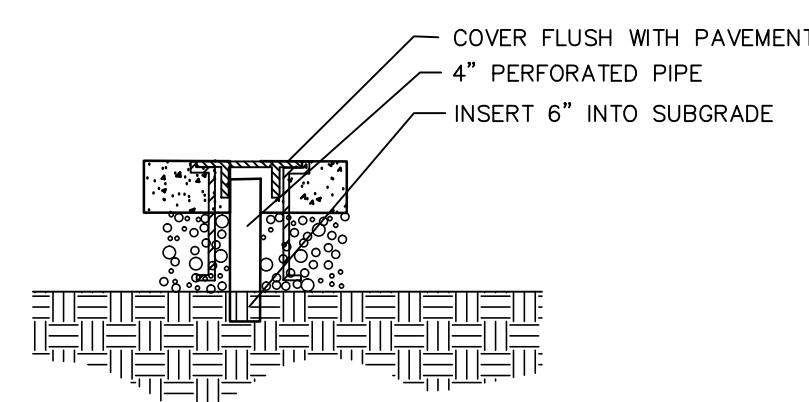


NOTE: EXAMPLE OF SIGN TO BE PLACED WHERE SHOWN ON THE PLANS. SIGN 18" X 24" ON STANDARD METAL BACKING AND MOUNTED WITH STANDARD STREET SIGN MATERIALS AND METHODS.

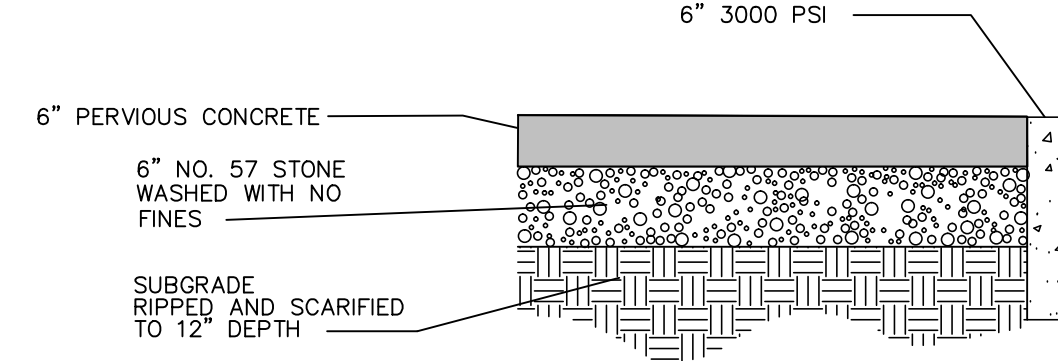
EXAMPLE PERMEABLE PAVEMENT SIGN
NOT TO SCALE



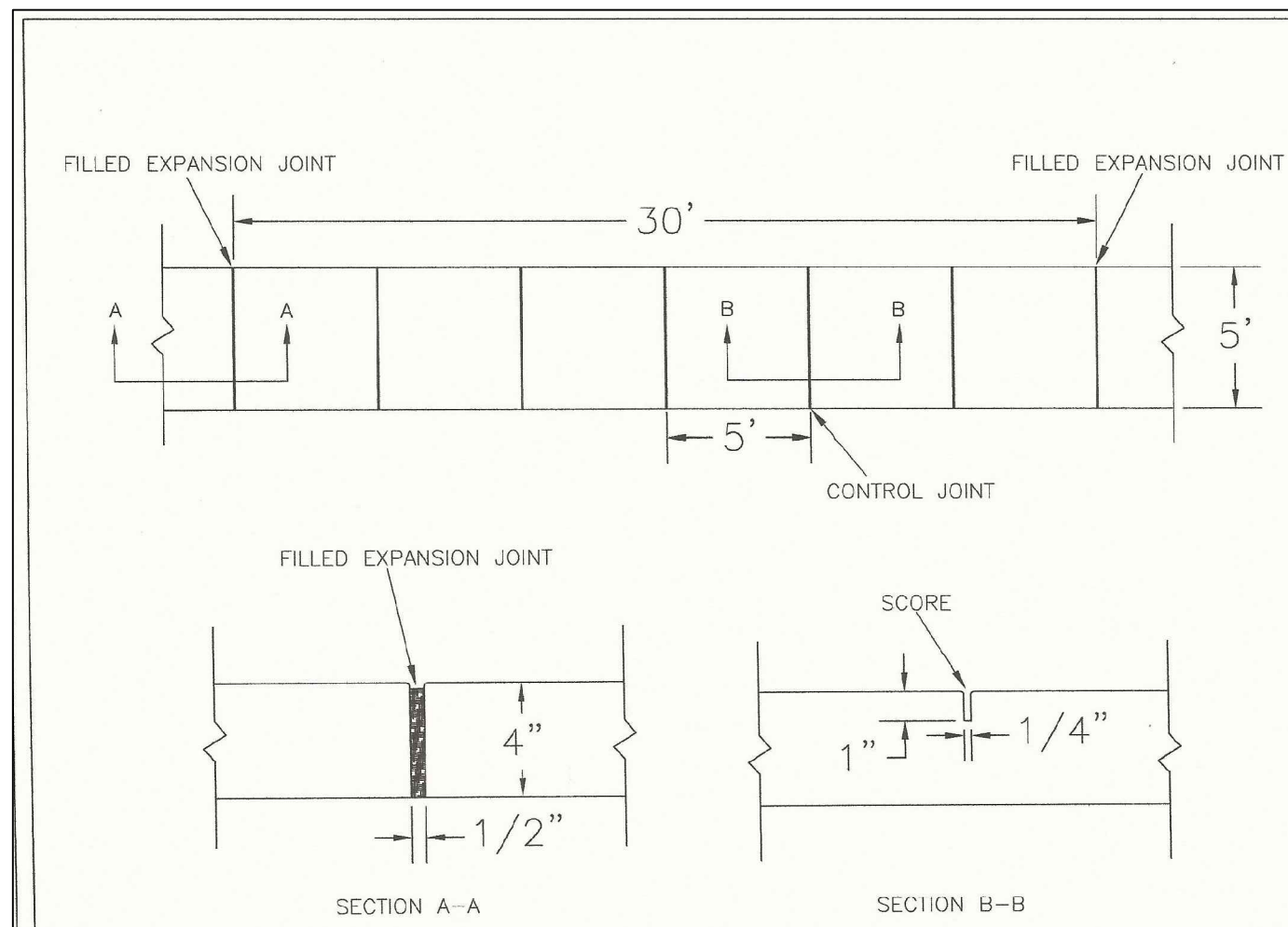
PERVIOUS CONCRETE SUBGRADE SLOPE
NOT TO SCALE



OBSERVATION WELL
NOT TO SCALE



PERVIOUS PAVEMENT SECTION
NOT TO SCALE



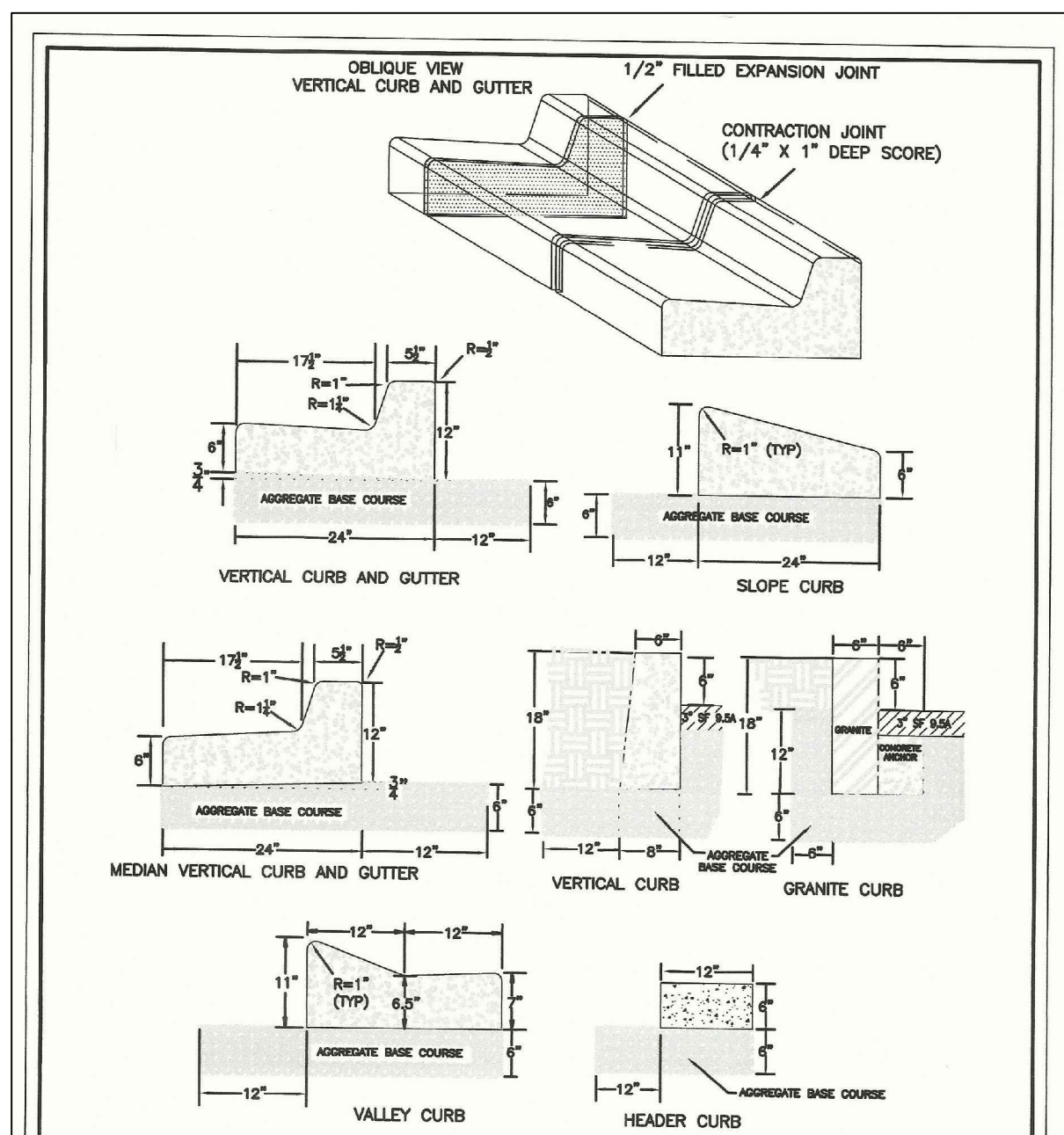
- NOTES:
1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
 2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
 4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3,000 PSI.
 5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL.
 6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
 7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
 9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

STANDARD DETAIL
SIDEWALK

DATE: OCTOBER, 2010
DRAWN: PBJ/SR
CHECKED: DEC
SCALE: NOT TO SCALE

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

SD 3-10

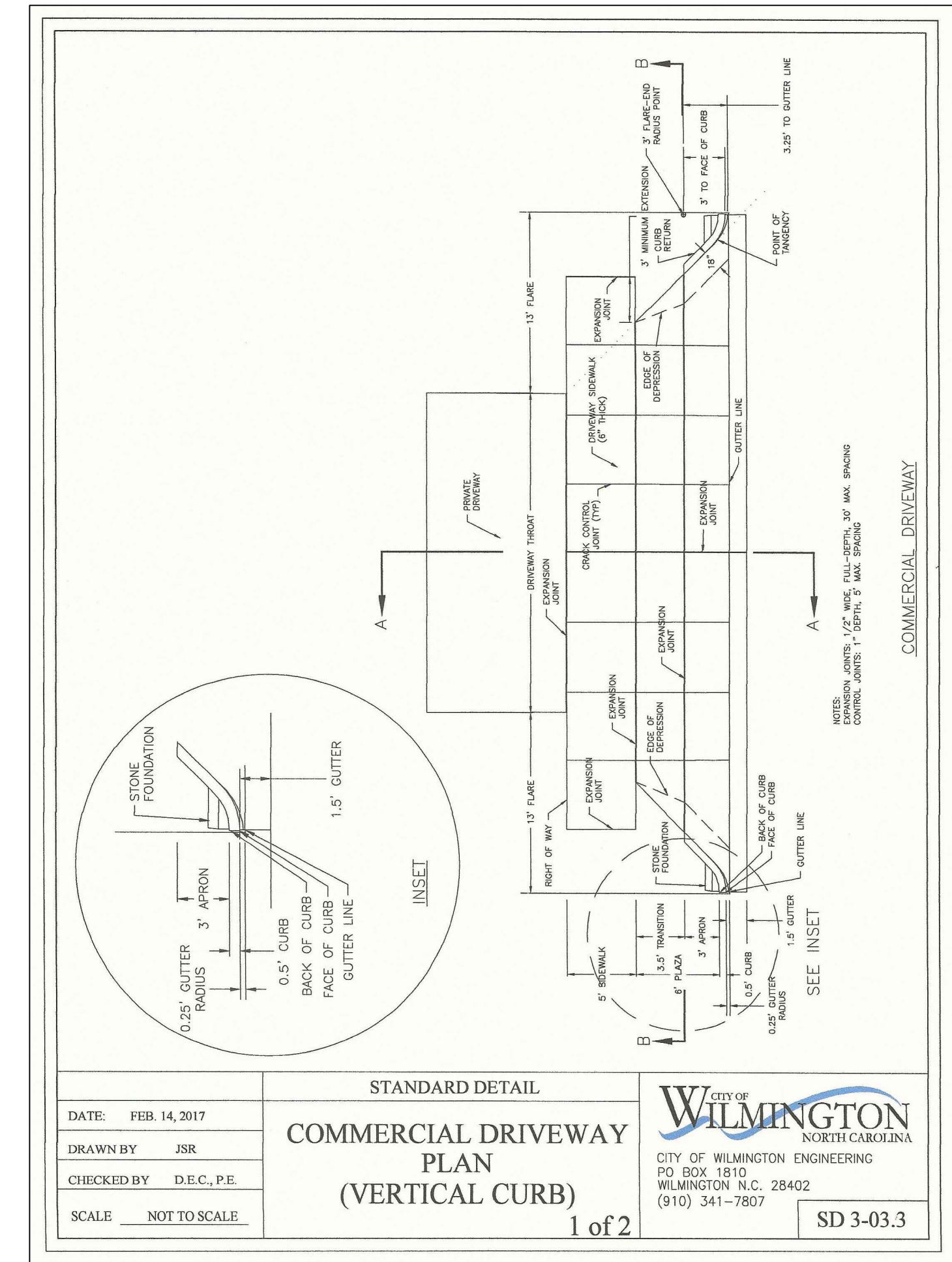


STANDARD DETAIL
CURBING

DATE: AUGUST, 2011
DRAWN: PBJ/SR
CHECKED: DEC
SCALE: NOT TO SCALE

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

SD 3-11

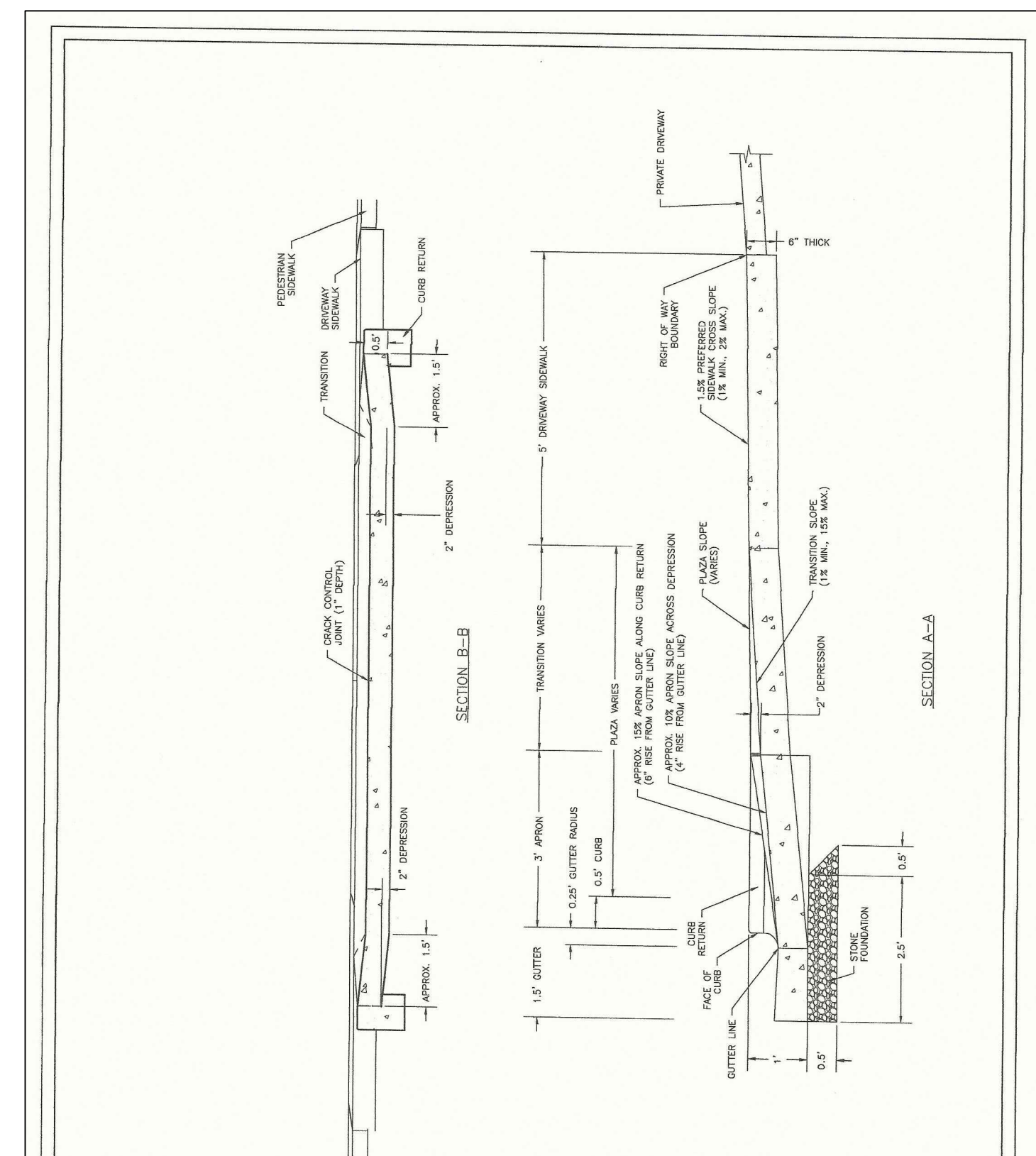


STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN (VERTICAL CURB)
1 of 2

DATE: FEB. 14, 2017
DRAWN BY: JSR
CHECKED BY: D.E.C., P.E.
SCALE: NOT TO SCALE

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

SD 3-03.3



STANDARD DETAIL
COMMERCIAL DRIVEWAY SECTIONS (VERTICAL CURB)
2 of 2

DATE: FEB. 14, 2017
DRAWN BY: JSR
CHECKED BY: D.E.C., P.E.
SCALE: NOT TO SCALE

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

SD 3-03.4

ADDRESSED 6/13/18 TRC COMMENTS	REVISION
7/26/18	DATE
R1	NUMBER

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

Date: _____ Permit # _____

Signed: _____

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

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

DESIGN BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: APRIL, 2018

DETAILS

1507 DAWSON STREET
WILMINGTON, NC

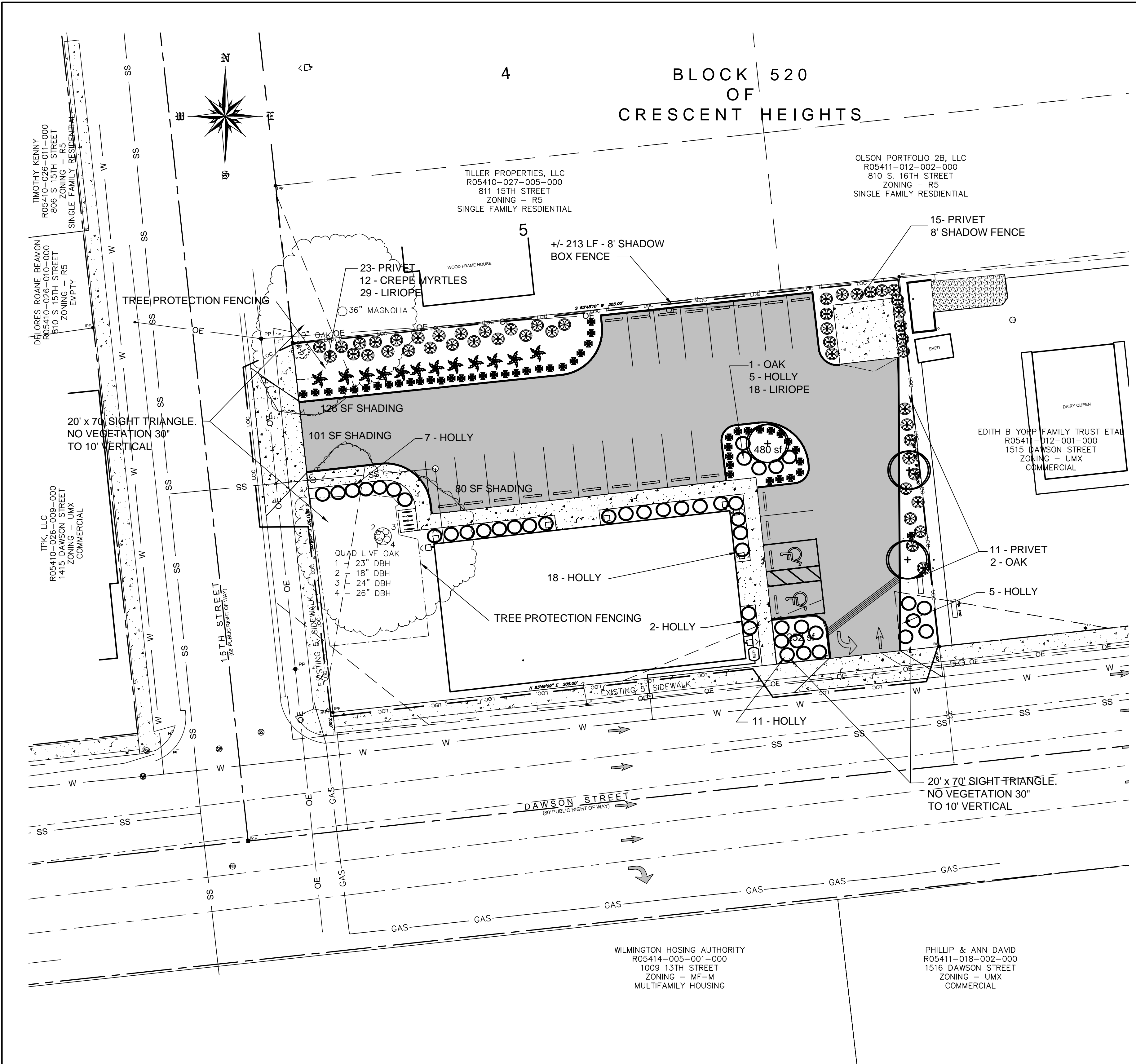
OWNER/DEVELOPER
MR. RODNEY WILLIFORD
RK W PROPERTIES, LLC
7986 HWY 11 BUSINESS
BETHEL, NC 27812
1-252-714-5838

CONSULTING, PA
7332 Colesworth Drive
Wilmington, NC 28405
(910) 619-9990
LICENSE NUMBER C2523
PLANNING - ENGINEERING - CONSTRUCTION MANAGEMENT

JBS

SHEET
C4
of X

JOB NO. 032-025



LANDSCAPE DATA

THIS PROJECT IS IN SUPPORT OF AN ADDITION TO AN EXISTING FACILITY BUILT IN 1992. COUNTY LANDSCAPE REQUIREMENTS WERE NOT AS RESTRICTIVE AS TODAY'S STANDARDS. THIS LANDSCAPE PLAN AS PRESENTED IS AN ATTEMPT TO BRING THE SITE UP TO CURRENT STANDARDS WITHIN THE FOOTPRINT OF THE EXISTING FACILITY.

STREET YARD LANDSCAPING

THREE LANDSCAPE ISLANDS ADDED ALONG COLLEGE ROAD = 666 SF
 300 SF = 1 CANOPY/SHADE TREE + 6 SHRUBS REQUIRED
 PROVIDED 666 SF/300 SF = 3 CANOPY OR SHADE TREE + 18 SHRUBS

FOUNDATION PLANTINGS

EXISTING FRONTAGE IS PREVIOUSLY PLANTED WITH SHRUBS. ADDITIONAL FRONTAGE OF THE EXPANSION IS ADDRESSED WITH THE ADDITION OF 6 HOLLY BUSHES.

PARKING INTERIOR

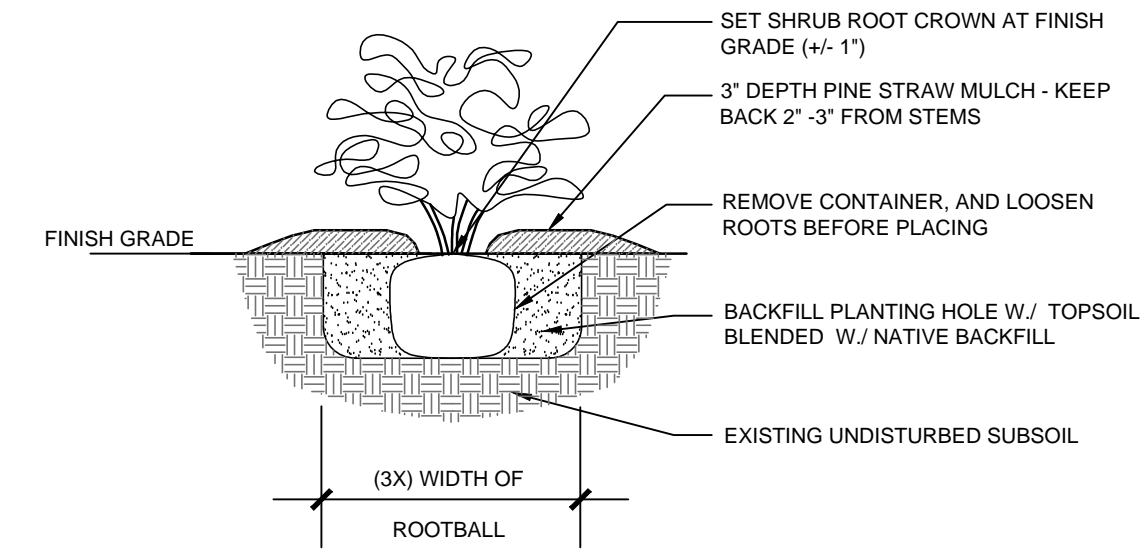
THE EXISTING PARKING LOT = 11,043 SF. WITH THE REMOVAL OF ASPHALT AND CONVERTING INTO LANDSCAPE AREA LEAVES 10,030 SF. 8% OF THIS = 802 SF REQUIRED.

PROPOSED = 1,013 SF (NEW ISLANDS).

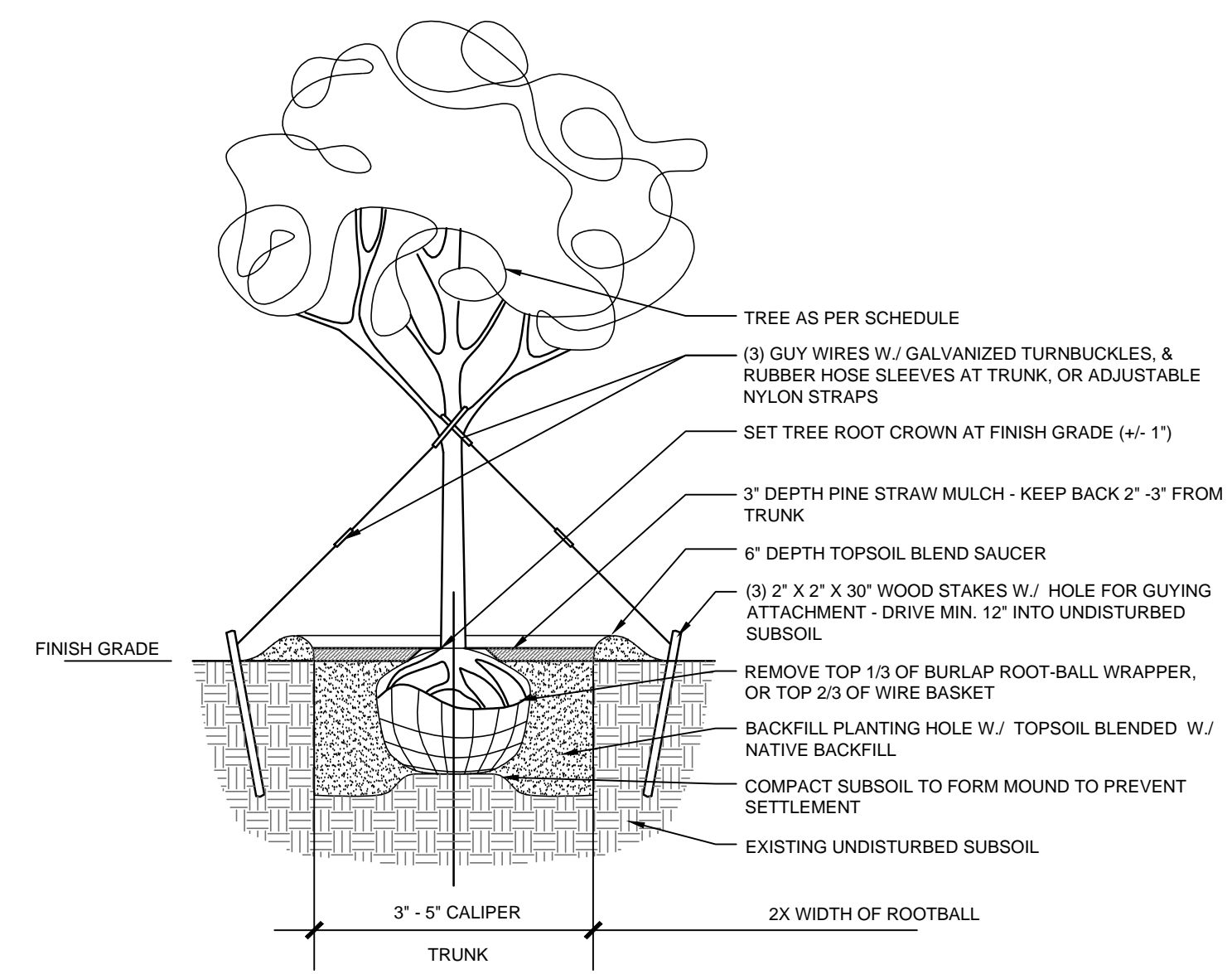
PARKING LOT SHADING

SHADING REQUIREMENTS INCLUDE SHADING FOR 20% OF PARKING LOT. PARKING LOT IS 10,956 SF. SHADING = 20% X 10,956 = 2191 SF.

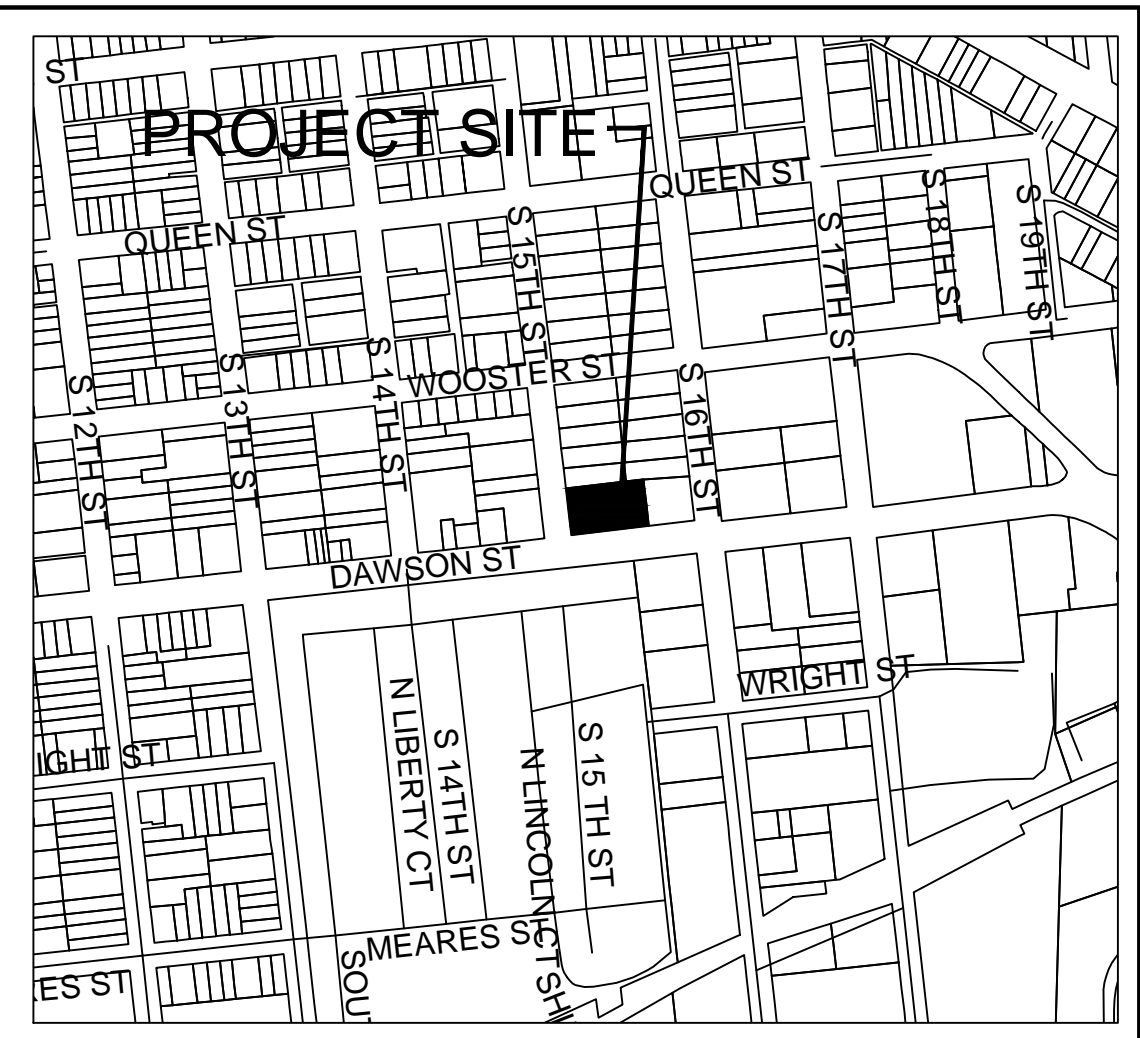
SHADING IS PROVIDED FROM EXISTING TREES = 307 SF
 THREE NEW SAWTOOTH OAKS = 707 X 3 = 2121 SF



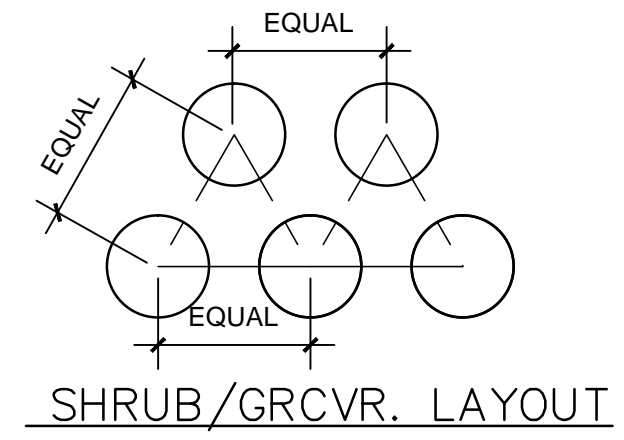
SHRUB/GRCVR. PLANTING DETAIL
N.T.S.



TREE PLANTING DETAIL



VICINITY MAP
SCALE 1" = 500'



SHRUB/GRCVR. LAYOUT

**LANDSCAPE PLAN
SCALE 1" = 20'**

PLANTING SCHEDULE			
Common Name		Size	Qty
LARGE SHADE TREE			
● Sawtooth Oak	<i>quercus acutissima</i>	3" Cal. 10' @ Planting	3
SMALL SHADE TREE			
✱ Crape Myrtle Tuscarora	<i>Lagerstroemia</i>	6' HGT	12
SHRUBS			
○ Dwarf Yaupon Holly	<i>Ilex vomitoria "nana"</i>	3 Cal. 3' HGT	43
✱ Common Privet	<i>Ligustrum recurve</i>	3 Cal. 3' HGT	49
✱ Liriope, Big Blue	<i>Liriope muscari</i>	1 Cal.	65

LEGEND	
EXISTING GRAVEL PAVEMENT	
CONC. PAVEMENT	
PERVIOUS CONCRETE	
PROPOSED SPOT ELEVATION	39.20
EXISTING SPOT ELEVATION	36.7
WAVE STYLE BIKE RACK	
SILT FENCE	
BUILDING GUTTER & DOWN SPOUT SYSTEM - SURFACE DISCHARGE TOWARD PAVEMENT	

NO.	DATE	REVISION

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

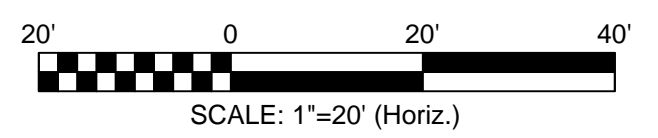
Date: _____ Permit # _____

Signed: _____

Approved Construction Plan

Name	Date
Planning	_____
Traffic	_____
Fire	_____

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SCALE: 1"=20' (Horiz.)

DESIGN BY: BDS
 DRAWN BY: BDS
 CHECKED BY: BDS
 DATE: APRIL, 2018

LANDSCAPE PLAN
1507 DAWSON STREET
 WILMINGTON, NC

OWNER/DEVELOPER
 MR. RODNEY WILLIFORD
 RKW PROPERTIES, LLC
 7986 HWY 11 BUSINESS
 BETHEL, NC 27812
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SHEET
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 JOB NO. 032-025