

SITE CONSTRUCTION PLANS

SQUARE TWO

1602 QUEEN STREET
WILMINGTON, NC 28403

INFILL PROJECT

NOTES

1. 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.
2. 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.
3. 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.
4. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY AND FOR DRIVEWAY ARE TO BE THERMO PLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
5. 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.
6. 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.
7. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
8. TRAFFIC ENGINEERING TO BE NOTIFIED AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
9. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
10. 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.
11. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
12. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
13. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEEL CHAIR RAMPS.
14. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
15. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
16. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
17. WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY DETAILS AND SPECIFICATIONS.
18. 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.
19. 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.
20. ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA SHALL COMPLY WITH THE CFPWA CROSS CONNECTION REGULATIONS.
21. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZE SENSOR.
22. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCOCHR.
23. CONTRACTOR TO FILED VERIFY EXISTING WATER AND SEWER LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF CONFLICTS.
24. AN ALL WEATHER DRIVING SURFACE FOR EMERGENCY VEHICLES MUST BE MAINTAINED DURING CONSTRUCTION.
25. 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.
26. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (TEN) FEET ABOVE THE GROUND WITHIN THE TRIANGLE SIGHT DISTANCE.
27. CONTRACTOR IS TO NOTIFY (AT A MINIMUM) THE FOLLOWING COMPANIES FOR LOCATION SERVICES:
ULOCO1-800-632-4949, 48 HOURS IN ADVANCE
BELL SOUTH.....1-800-392-8712 (STEVE DAYVAULT)
CAROLINA ONE CALL CENTER 1-800-632-4949
28. THERE SHALL BE NO ENCUMBRANCES WITHIN THE NCDOT RIGHT OF WAY.
29. 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 CoW TECH STDS)
30. FIRE HYDRANTS CANNOT BE FURTHER THAN 8' FROM THE CURB.
31. PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS OF FDC'S
32. FDC'S CAN BE NO FURTHER THAN 40' FROM FIRE DEPARTMENT VEHICLE PLACEMENT
33. FDC'S CAN BE NO FURTHER THAN 150' FROM A FIRE HYDRANT
34. BICYCLE PARKING IS PROVIDED ON THE SOUTHWEST CORNER OF PROPOSED BUILDING

Approved Construction Plan

Name _____ Date 10/24/16

Planning _____ Traffic 10-25-16

Fire _____ 10-19-16

WILMINGTON
NORTH CAROLINA

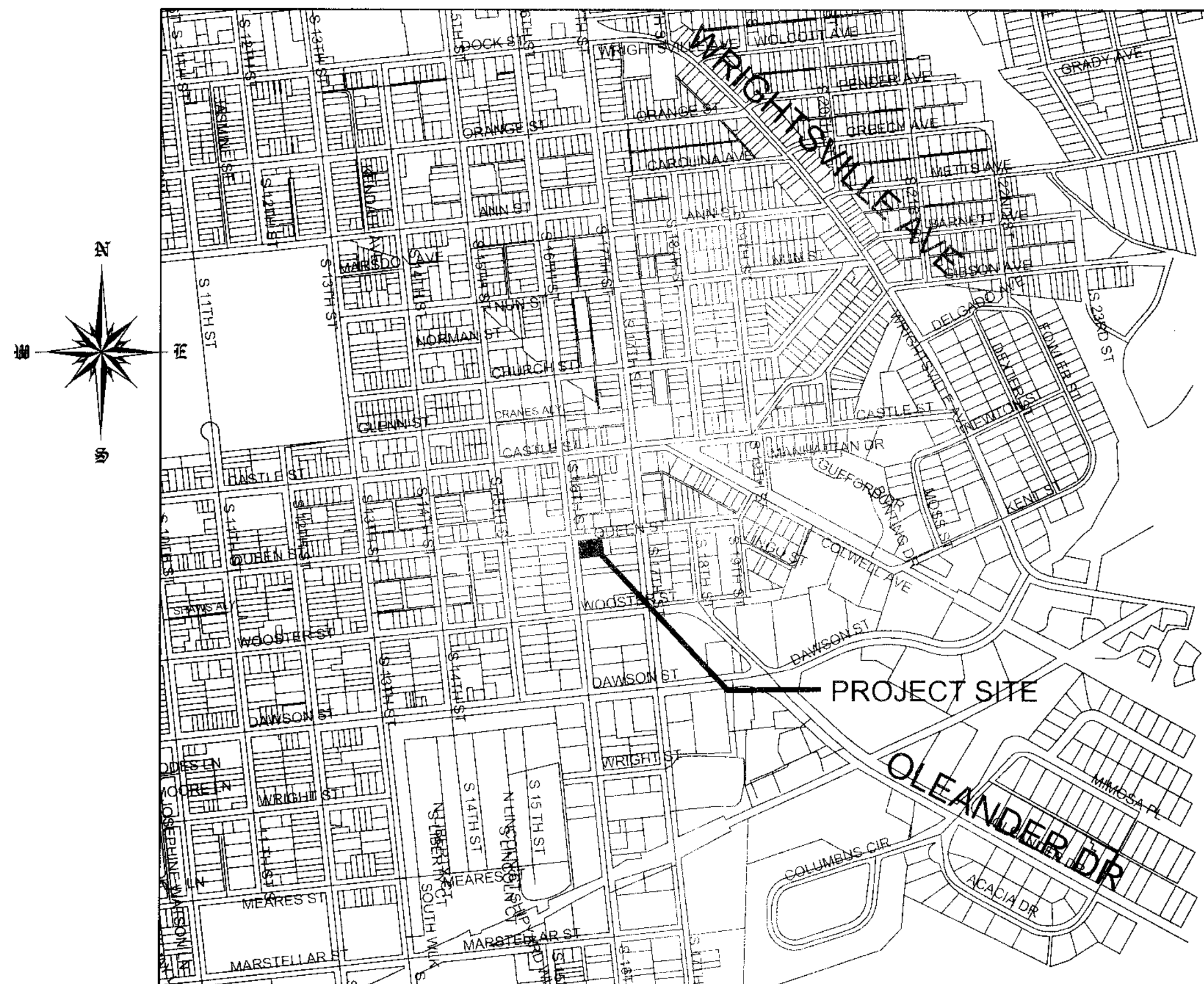
Public Services • Engineering Division

APPROVED DRAINAGE PLAN

Date: 10/20/16 permit # 2016040

Signed: _____

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



SCALE 1" = 600'
VICINITY MAP
AUGUST, 2016

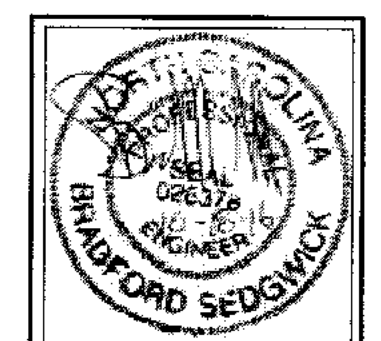
LIST OF DRAWINGS

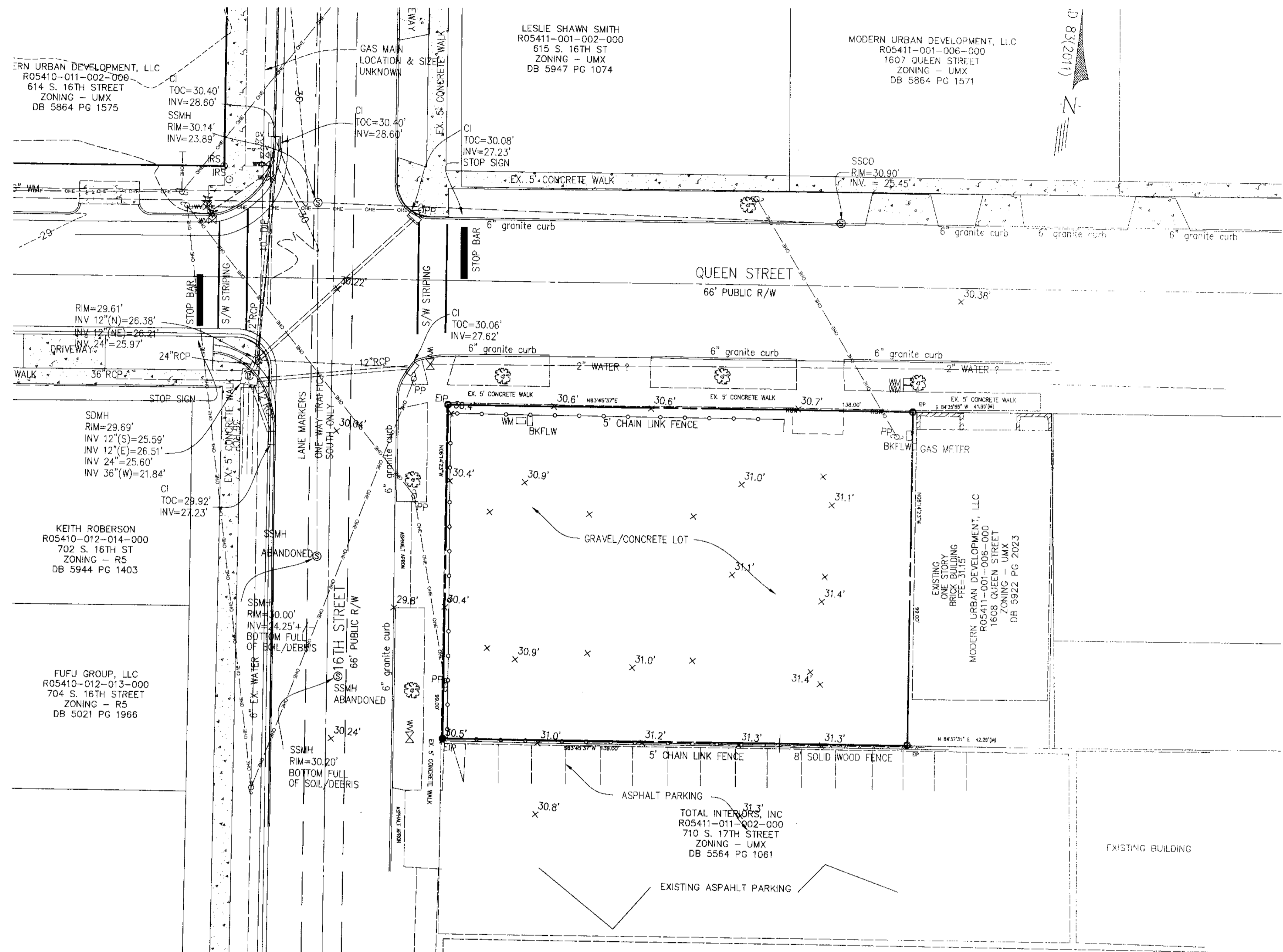
XX	COVER SHEET
C1	EXISTING SITE
C2	SITE PLAN
C3	GRADING, DRAINAGE & EROSION CONTROL
C4	UTILITIES
C5	LANDSCAPE PLAN
C6	DETAILS
A1	BUILDING ELEVATION
WSD-1	WATER DETAILS
WSD-2	WATER DETAILS
SSD-1	SANITARY SEWER DETAILS
SSD-2	SANITARY SEWER DETAILS

OWNER/DEVELOPER
L.S. SMITH, INC.
MR. LESLIE SMITH
1607 QUEEN STREET
WILMINGTON, NC 28401
1-336-404-0009

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

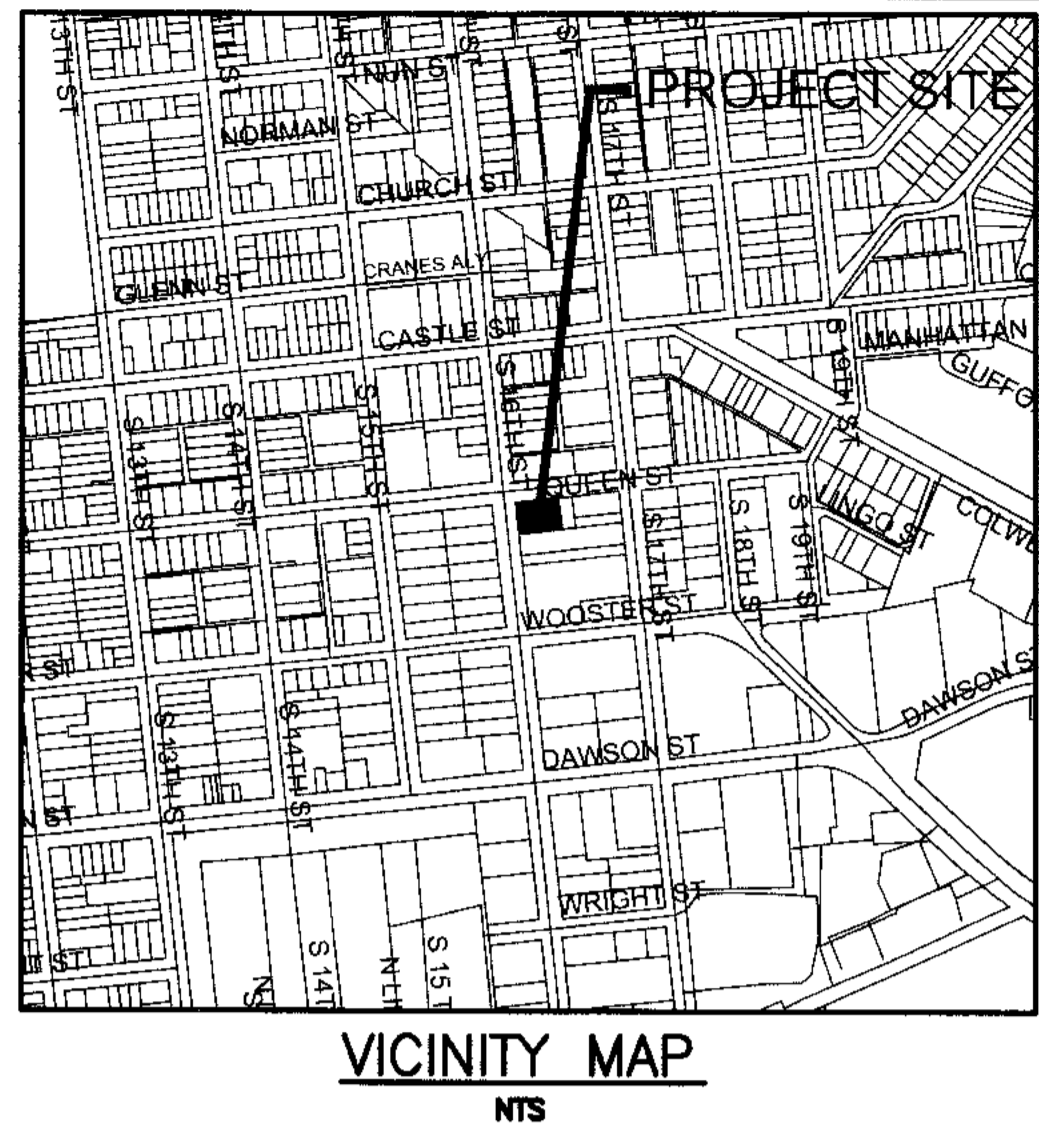
SURVEYOR
ROBERT SESSOMS & ASSOCIATES, PLLC
MR. ROBERT SESSOMS, PLS
4033 CHANDLER DRIVE
WILMINGTON, NC 28405
1-910-352-8846





SITE DATA

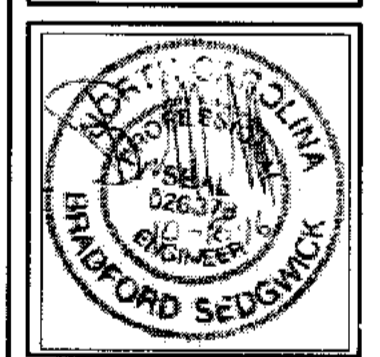
TOTAL PROJECT AREA 13,504 SF
 EXISTING BUA 13,504 SF
 ENTIRE LOT IS GRAVEL/ CONCRETE PAD



DESIGN BY:	BDS
DRAWN BY:	BDS
CHECKED BY:	BDS
DATE:	AUGUST, 2016

EXISTING SITE
SQUARE TWO
 WILMINGTON, NC

L S SMITH, INC.
 1607 Queen Street
 Wilmington, NC 28401-5526
 910-409-8782



JBS CONSULTING, PA
 7332 Colesworth Drive
 Wilmington, NC 28405
 (910) 619-9990
 License Number C-2525
 PLANNING - ENGINEERING - PROJECT MANAGEMENT

SHEET
C1
 of 6
 JOB NO.
 104-001

EXISTING SITE
 SCALE 1" = 20'

LEGEND

PERMEABLE PAVERS	
ASPHALT PAVEMENT	
CONC. PAVEMENT	
EXISTING SPOT ELEVATIONS	X 41.5'
WAVE STYLE BIKE RACK & BIKE SPOTS EACH	
TREE PROTECTION FENCING SEE DETAIL	
TREE FOR REMOVAL	



Approved Construction Plan

Name: *[Signature]* Date: 10/24/16

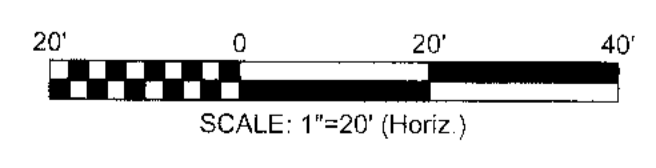
Planning: *[Signature]* 10/25/16

Traffic: *[Signature]* 10/25/16

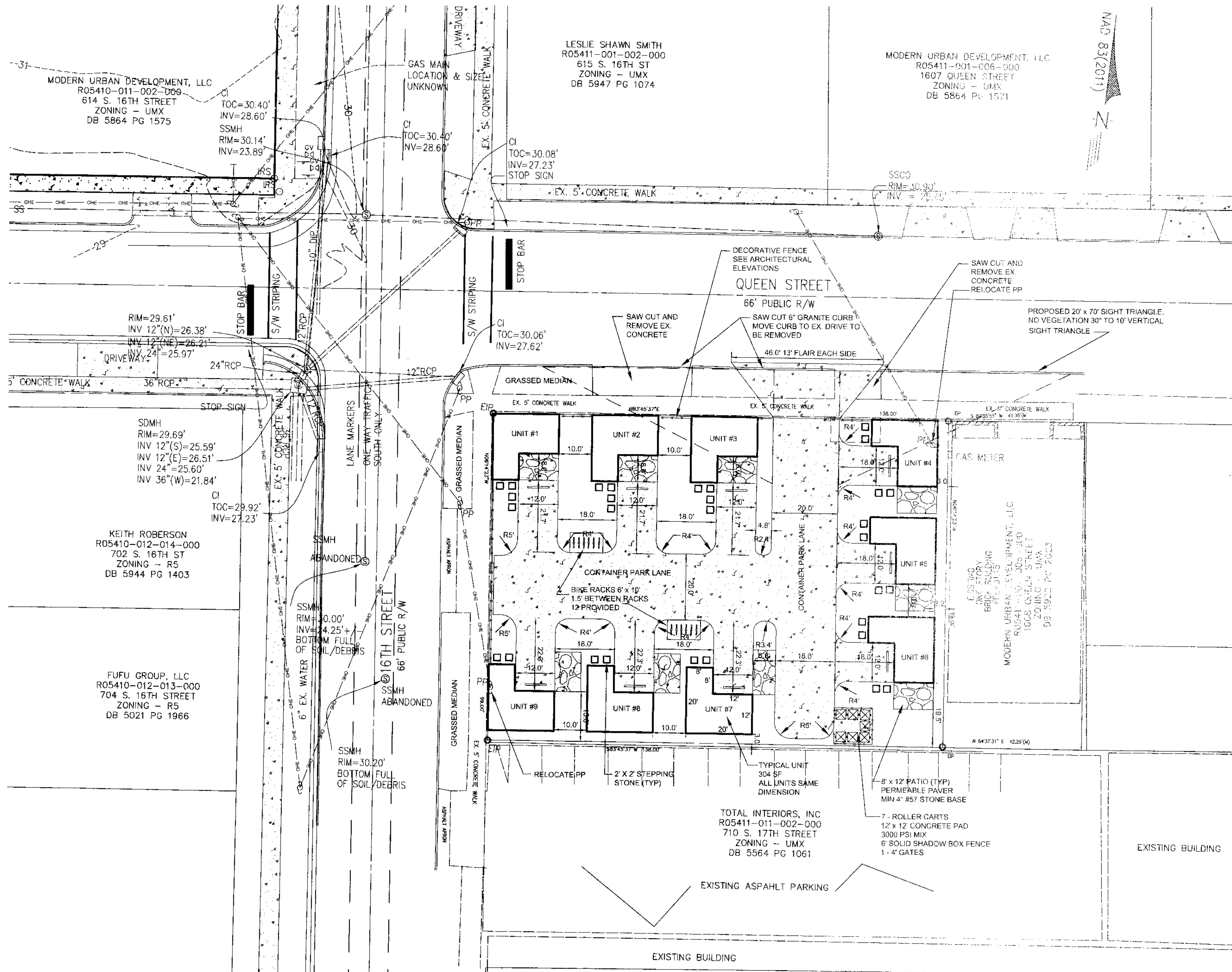
Fire: *[Signature]* 10/19/16

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED DRAINAGE PLAN
 Date: 10/20/16 permit # 2016040
 Signed: *[Signature]*

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



10/18/16	RELEASED FOR TRC SIGNATURE
10/11/16	TRC COMMENTS ADDRESSED REV 3
8/25/16	8/25/16 TRC COMMENTS ADDRESSED
NUMBER	REVISION
DATE	DATE



SITE DATA

ADDRESS 1602 QUEEN STREET
 WILMINGTON, NC 28403-2343
 PARCEL ID NUMBERS R05411-011-006-000
 DEED BOOK & PAGE D.B. 5922 PG. 2023
 MAP BOOK & PAGE MB 2 PG. 56
 ZONING UMX
 CITY OF WILMINGTON
 TOTAL LOT AREA 0.31 ACRES - 13,504 SF
 CAMA LAND USE CLASSIFICATION .. URBAN
 OVERLAY DISTRICT - PROPERTY IS NOT IN A SPECIAL HIGHWAY OVERLAY DISTRICT
 PROPOSED USE MULTI FAMILY
 EACH UNIT IS A ONE BEDROOM DWELLING UNIT. EACH UNIT IS TWO STORIES.
 FLOOD INFO
 ZONE X - MINIMAL FLOOD ZONE
 PANEL 3127
 MAP # 3720312700J
 5/2006
 NUMBER OF BUILDINGS 0 EXISTING
 9 PROPOSED

	REQUIRED	PROPOSED
MIN. LOT AREA	N/A	0.31 ACRES
MIN. LOT WIDTH	N/A	137'
MAX. LOT COVERAGE	N/A	20.3%
FRONT BUILDING SETBACK	N/A	0'
REAR BUILDING SETBACK	N/A	0'
SIDE BUILDING SETBACK	N/A	0'
RIGHT SIDE	N/A	0'
LEFT SIDE	N/A	0'
MAX. BUILDING HEIGHT	N/A	17'

LOT COVERAGE 20.3%
 TOTAL EXISTING ONSITE IMPERVIOUS SURFACE 13,504 SF
 AMOUNT TO BE REMOVED/DEMOLISHED 13,504 SF

TOTAL ONSITE NEWLY CONSTRUCTED SURFACE

BUILDINGS	2,736 SF
IMPERVIOUS PAVEMENT	5,915 SF
PERVIOUS PATIOS	861 SF
PERVIOUS SIDEWALKS	0 SF
OTHER	0 SF
TOTAL	9,512 SF

TOTAL EXISTING OFFSITE IMPERVIOUS SURFACE 2,119 SF
 (BETWEEN BACK OF CURB AND PROPERTY LINE)
 AMOUNT TO BE REMOVED/DEMOLISHED 307 SF
 TOTAL OFFSITE NEWLY CONSTRUCTED IMPERVIOUS SURFACE 550 SF

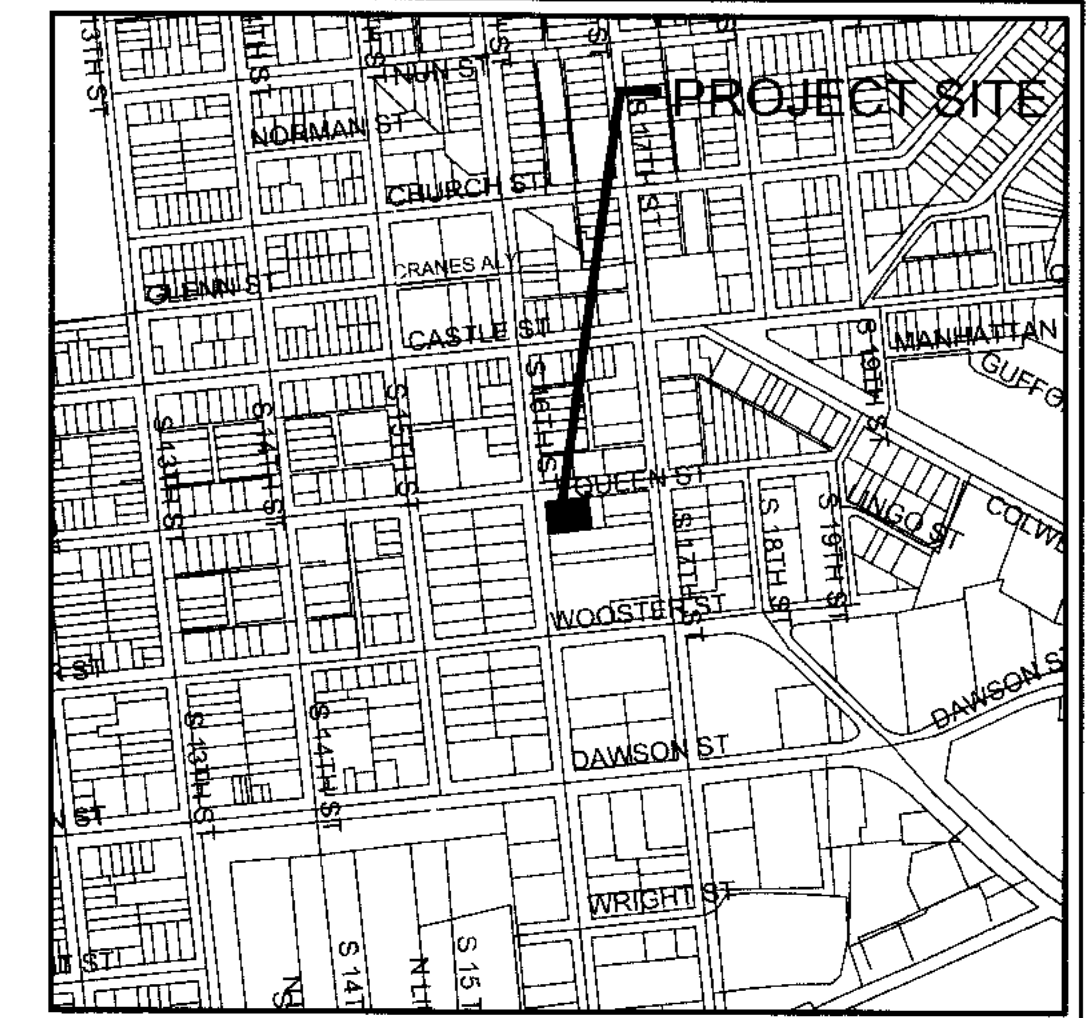
EXISTING BUA COVERAGE = 13,504 SF - 100% IMPERVIOUS
 PROPOSED BUA COVERAGE = 9,512 SF - 70.4% IMPERVIOUS

PARKING REQUIREMENTS
 NO PARKING REQUIREMENTS PER SECTION 18-204 OF WILMINGTON CITY CODE

SOLID WASTE - FACILITY WILL BE SERVED WITH ROLLER CARTS AS SHOWN

UTILITY INFORMATION

WATER EXISTING USAGE	0 GPD
(9 - 1 BDRM) UNITS BUT MINIMUM 240 GPD USAGE	
WATER USAGE PROPOSED	2,160 GPD
SEWER USAGE - EXISTING	0 GPD
SEWER USAGE - PROPOSED	2,160 GPD

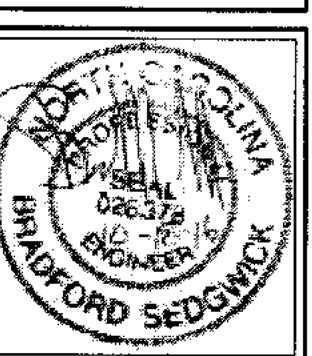


VICINITY MAP
 NTS

DESIGNED BY	BOS
DRAWN BY	BOS
CHECKED BY	BOS
DATE	AUGUST, 2016

SITE PLAN
SQUARE TWO
 WILMINGTON, NC

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SITE PLAN
 SCALE 1" = 20'

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STANDARD CONCRETE	
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WAVE STYLE BIKE RACK 8 BIKE SPOTS EACH	
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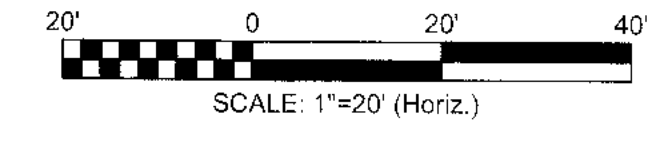
NO.	DATE	REVISION
01	10/18/16	RELEASED FOR TRC SIGNATURE
02	10/11/16	TRC COMMENTS ADDRESSED REV 3
03	10/11/16	#2516 TRC COMMENTS ADDRESSED
04	10/18/16	DATE

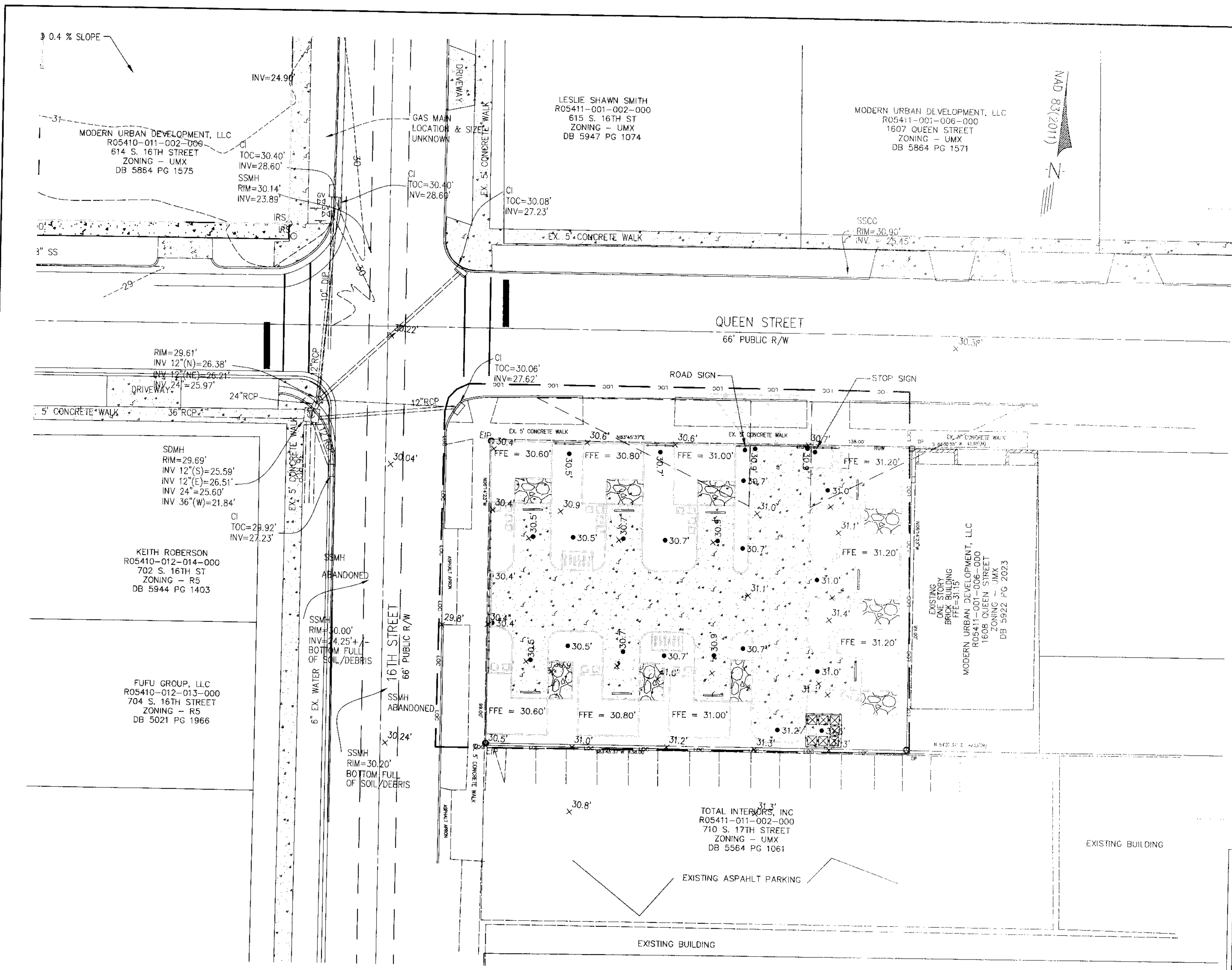
Approved Construction Plan

Name: [Signature] Date: 10/24/16
 Traffic: [Signature] 10-25-16
 Fire: [Signature] 10-19-16

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED DRAINAGE PLAN
 Date: 10/20/16 Permit #: 2016040
 Signed: [Signature]

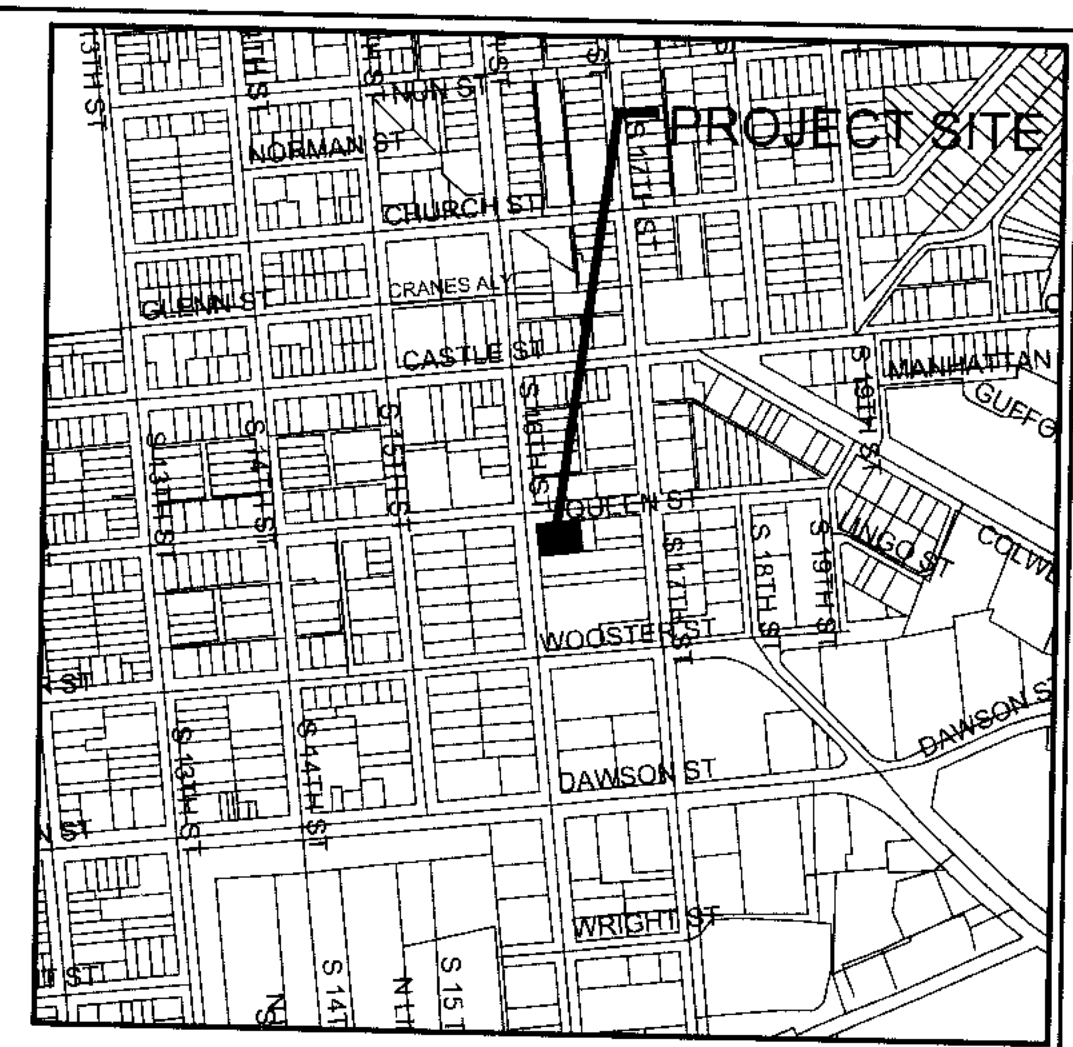
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DRAINAGE PLAN NOTES

- SITE IS GRADED TO DRAIN TOWARD LANDSCAPE ISLANDS.
- USE OF PERMEABLE PAVERS IS ALSO INCORPORATED IN DESIGN TO REDUCE RUNOFF.



VICINITY MAP
NTS

GRADING NOTES

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

CONSTRUCTION SEQUENCE

1. OBTAIN ALL NECESSARY PERMIT APPROVALS PRIOR TO ANY LAND DISTURBING ACTIVITY.
2. HOLD A PRE-CONSTRUCTION MEETING WITH THE EROSION CONTROL INSPECTOR.
3. INSTALL GRAVEL CONSTRUCTION ENTRANCE AND SILT FENCE, COMMENCE CLEARING AND ROUGH GRADING OPERATIONS TO ESTABLISH DIVERSION SWALES AND SEDIMENT TRAPS AND BASIN.
4. ROUGH GRADE SITE AND INSTALL UNDERGROUND UTILITIES.
5. 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.
6. STABILIZE (FERTILIZE, SEED, AND MULCH) ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
7. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED, REMOVE TEMPORARY EROSION CONTROL MEASURES.

EROSION CONTROL MAINTENANCE PLAN

1. 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.
2. INSPECT SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT, AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN DESIGNATED DISPOSAL AREA, AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.
3. 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.
4. ALL AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
5. 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.
6. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (2" 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.

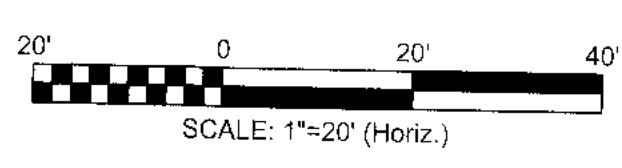
EROSION CONTROL NOTES

1. THIS PROJECT DOES NOT QUALIFY FOR A NHC S&E PERMIT, REGARDLESS CONTRACTOR SHALL FOLLOW GOOD PRACTICE TECHNIQUES.
2. CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN ROAD RIGHT OF WAYS UNLESS OTHERWISE DESIGNATED TO REMAIN.
3. CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN THE LIMITS OF CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY UNSUITABLE SOILS.
5. CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
6. THE CONTRACTOR SHALL FURNISH ANY REQUIRED BORROW MATERIALS FROM A PROPERLY PERMITTED OFF-SITE FACILITY.
7. 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.
8. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPARTMENT.
9. SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
10. ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.
11. IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 CALENDAR DAYS, ALL DISTURBED AREAS MUST BE SEED, MULCH, AND TACKED.

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

LABEL	1) GROUND STABILIZATION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
[Symbol]	SITE AREA DESCRIPTION		
[Symbol]	PERIMETER DRES, DITCHES AND SLOPES	7 DAYS	NONE
[Symbol]	HIGH QUALITY WATER (ROW)	7 DAYS	NONE
[Symbol]	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
[Symbol]	SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
[Symbol]	ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERMITS 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.
 - EARTHEN 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 EXEMPTION 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 DWO-APPROVED FLOCCULANTS
- NPDES - SPECIFIC PLAN SHEET NOTES**
1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NC0200000.
 2. THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NC0200000 ONLY.
 3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NC0200000.
 4. 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.



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Approved Construction Plan

Name: _____ Date: 10/24/16

Planning: _____ Date: 10-25-16

Traffic: _____

Fire: _____ Date: 10-19-16

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED DRAINAGE PLAN

Date: 10/20/16 Permit # 2016040

Signed: _____



LEGEND

PERMEABLE PAVERS	[Symbol]
STANDARD CONCRETE	[Symbol]
EXISTING SPOT ELEVATION	× 41.5'
PROPOSED SPOT ELEVATION	• 41.5'
WAVE STYLE BIKE RACK 8 BIKE SPOTS EACH	[Symbol]
TREE PROTECTION FENCING SEE DETAIL	[Symbol]

10/18/16	RELEASED FOR TRC SIGNATURE
10/17/16	TRC COMMENTS ADDRESSED REV 3
8/26/16	8/26/16 TRC COMMENTS ADDRESSED
8/26/16	REVISION
DATE	NUMBER

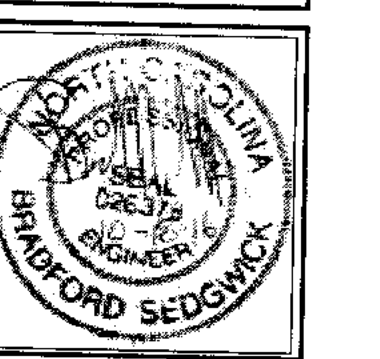
DESIGNED BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: AUGUST, 2016

GRADING, DRAINAGE & EROSION CONTROL

SQUARE TWO

WILMINGTON, NC

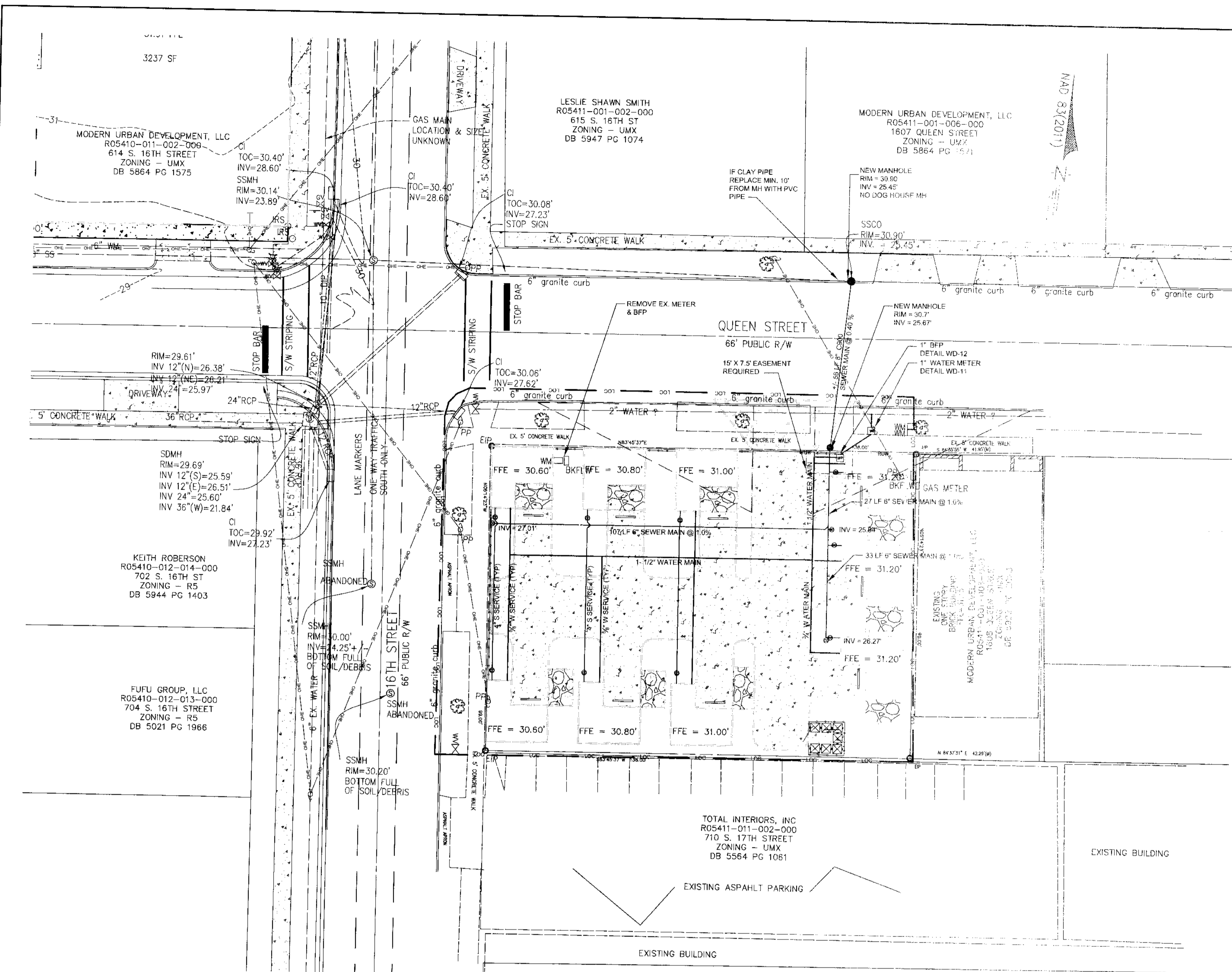
L S SMITH, INC.
1607 Queen Street
Wilmington, NC 28401-5526
910-409-8782



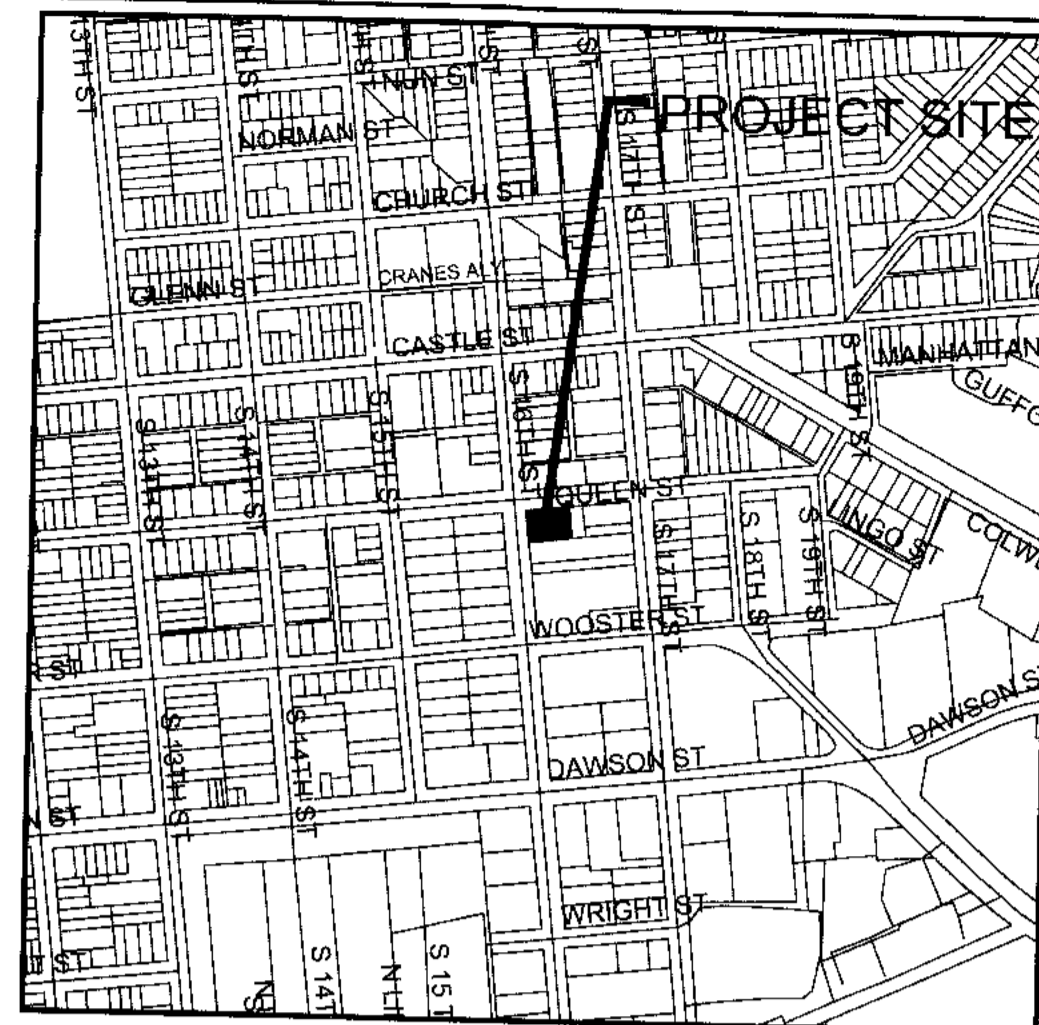
JBS CONSULTING, PA
7332 Colesworth Drive
Wilmington, NC 28405
(910) 619-9990
License Number C-25225

PLANNING - ENGINEERING - PROJECT MANAGEMENT

SHEET	C3
of 6	
JOB NO.	104-002



UTILITIES
 UTILITY INFORMATION
 WATER EXISTING USAGE 0 GPD
 9 - 1 BDRM UNITS BUT MINIMUM 240 GPD USAGE
 WATER USAGE PROPOSED 2,160 GPD
 SEWER USAGE - EXISTING 0 GPD
 SEWER USAGE - PROPOSED 2,160 GPD
 ON SITE SEWER MAIN WILL HAVE A MINIMUM SLOPE OF 1.0%
 ALL ON SITE WATER LINES AND SEWER MAINS SHALL CONFORM TO THE LATEST NC PLUMBING CODES
 ALL EXISTING SERVICES ON SITE WILL BE ABANDONED
 EASEMENT REQUIRED AROUND MANHOLE. SEE PLANS

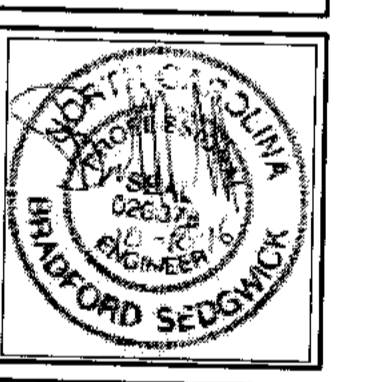


VICINITY MAP
 NTS

DESIGN BY: BDS
 DRAWN BY: BDS
 CHECKED BY: BDS
 DATE: AUGUST, 21 06

UTILITY PLAN
 SQUARE TWO
 WILMINGTON, NC

L S SMITH, INC.
 1607 Queen Street
 Wilmington, NC 28401-5526
 910-409-8782



JBS CONSULTING, PA
 7332 Cotesworth Drive
 Wilmington, NC 28405
 (910) 619-9980
 License Number C-2525
 PLANNING - ENGINEERING - PROJECT MANAGEMENT

SHEET
 C4
 JOB NO. 104-002

UTILITY PLAN
 SCALE 1" = 20'

NO.	DATE	REVISION
R4	10/18/16	RELEASED FOR TRC SIGNATURE
R3	10/11/16	TRC COMMENTS ADDRESSED REV 3
R2	10/8/16	INCREASED WATER METER SIZE PER CPWA
R1	08/22/16	ISSUED TRC COMMENTS ADDRESSED

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

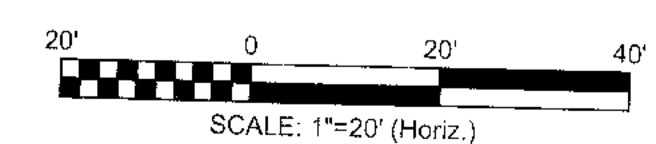
Approved Construction Plan
 Name: *[Signature]* Date: 10/24/16
 Planning: *[Signature]*
 Traffic: *[Signature]* 10-25-16
 Fire: *[Signature]* 10-19-16

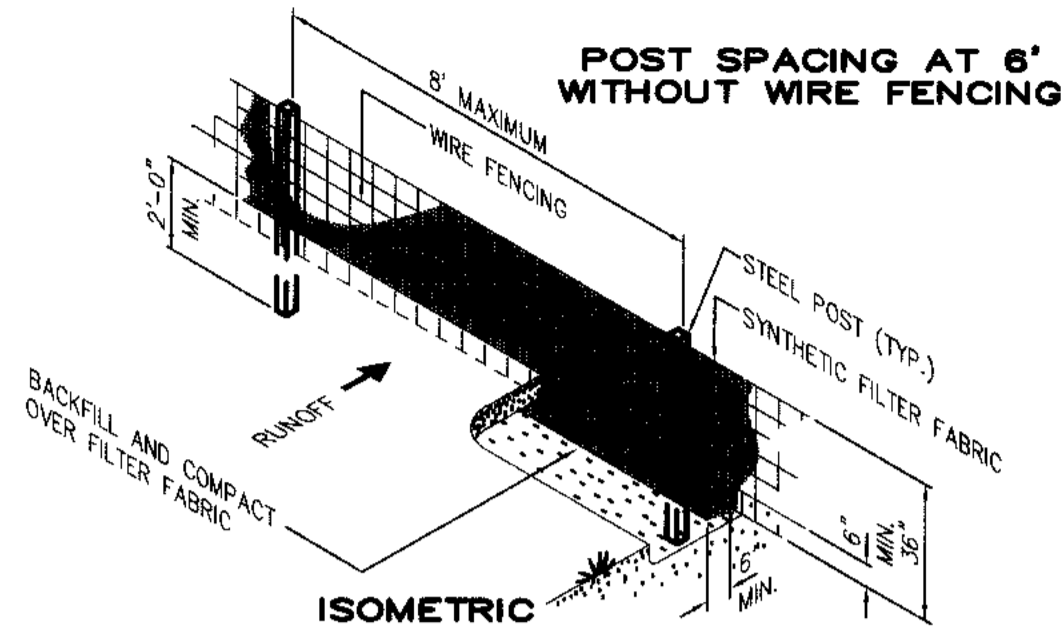
CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED DRAINAGE PLAN
 Date: 10/24/16
 Signed: *[Signature]*



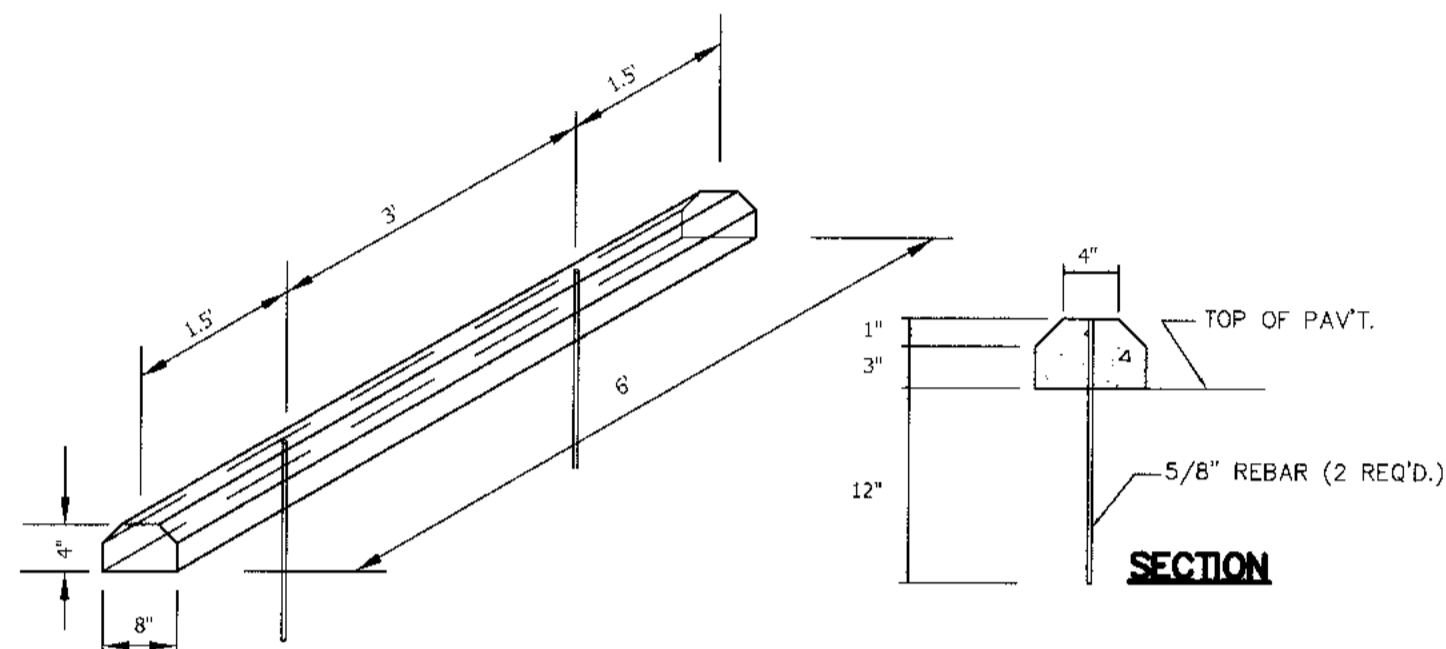
LEGEND

- PERMEABLE CONCRETE: [Pattern]
- STANDARD CONCRETE: [Pattern]
- PROPOSED SPOT ELEVATION: X 41.5'
- WAVE STYLE BIKE RACK & BIKE SPOTS EACH: [Symbol]
- TREE PROTECTION FENCING SEE DETAIL: [Symbol]

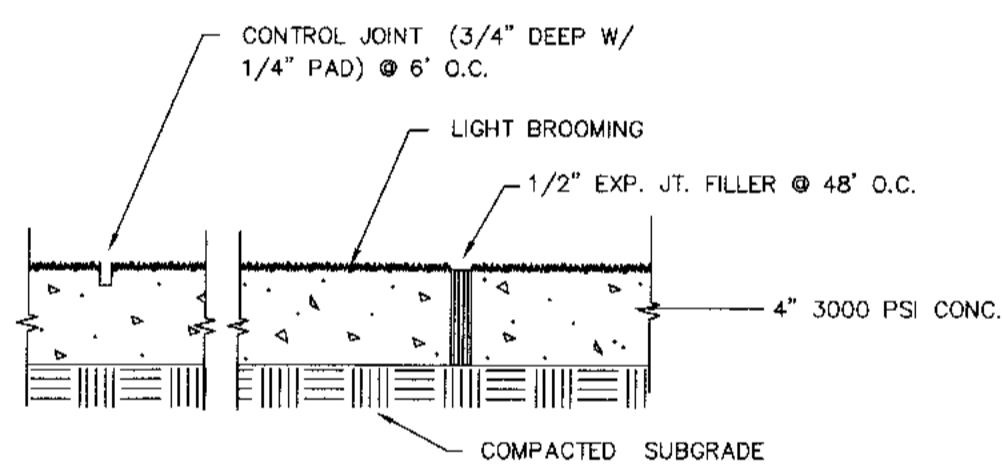




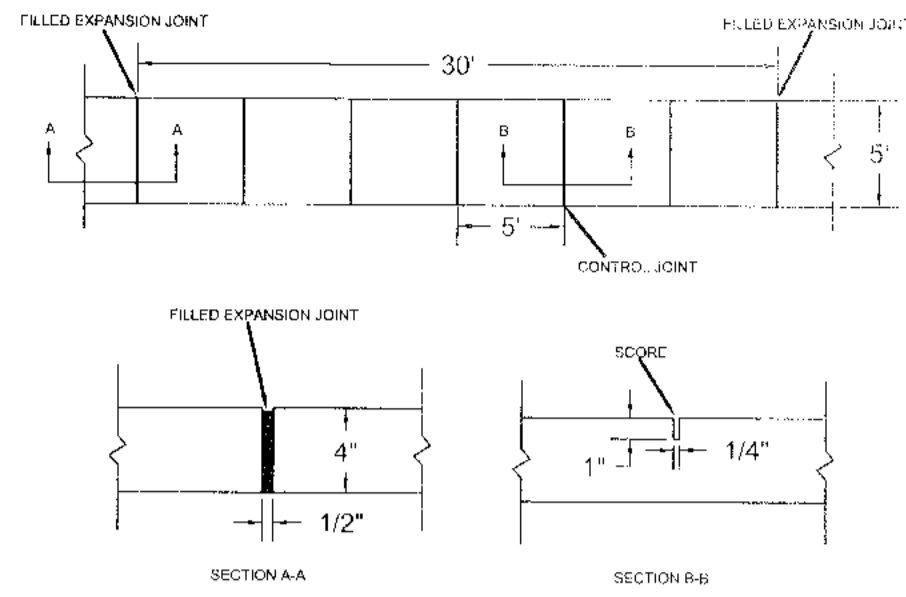
SILT FENCE DETAIL
NOT TO SCALE



WHEEL STOP DETAIL
NOT TO SCALE

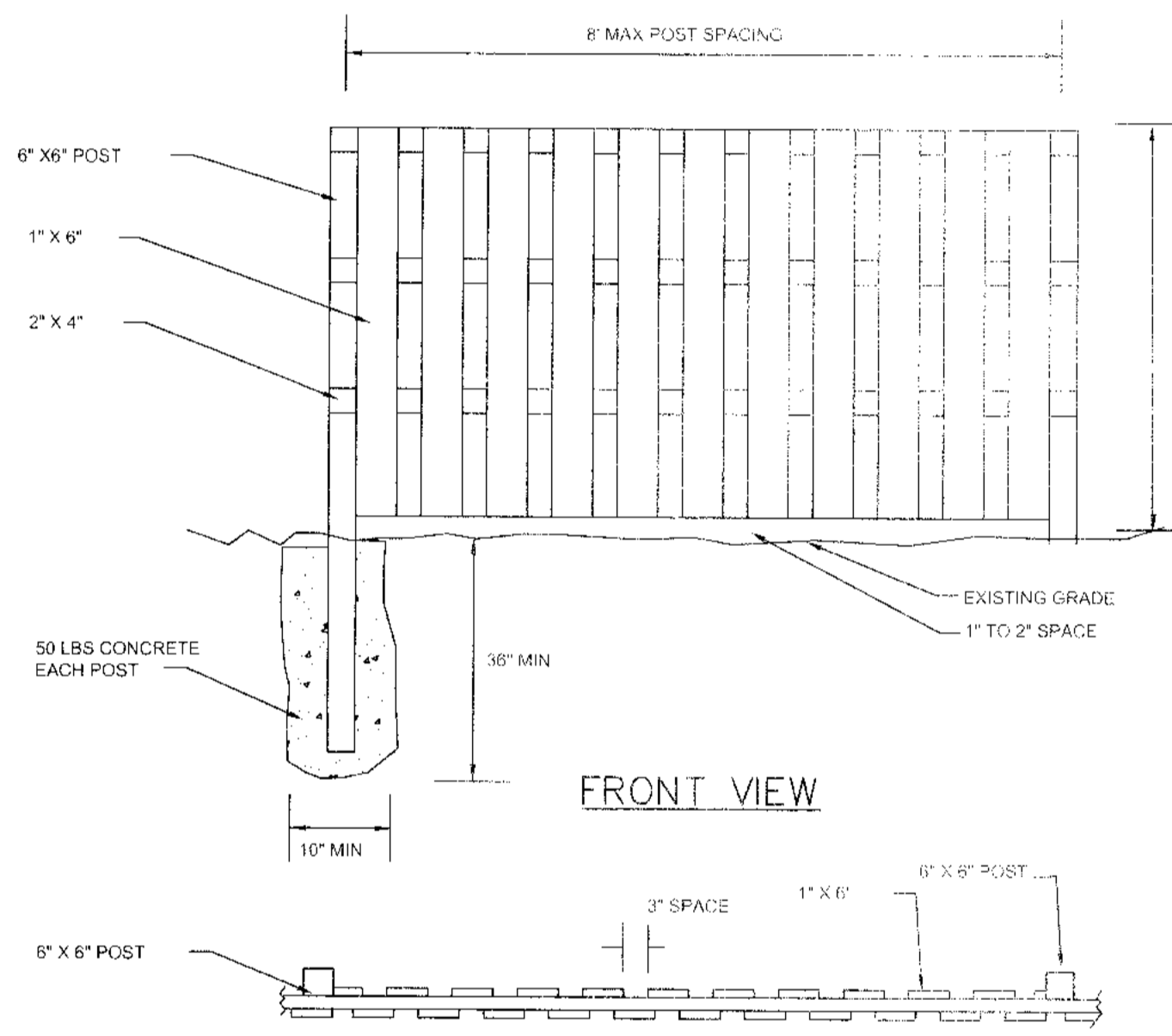


CONCRETE SECTION
NOT TO SCALE

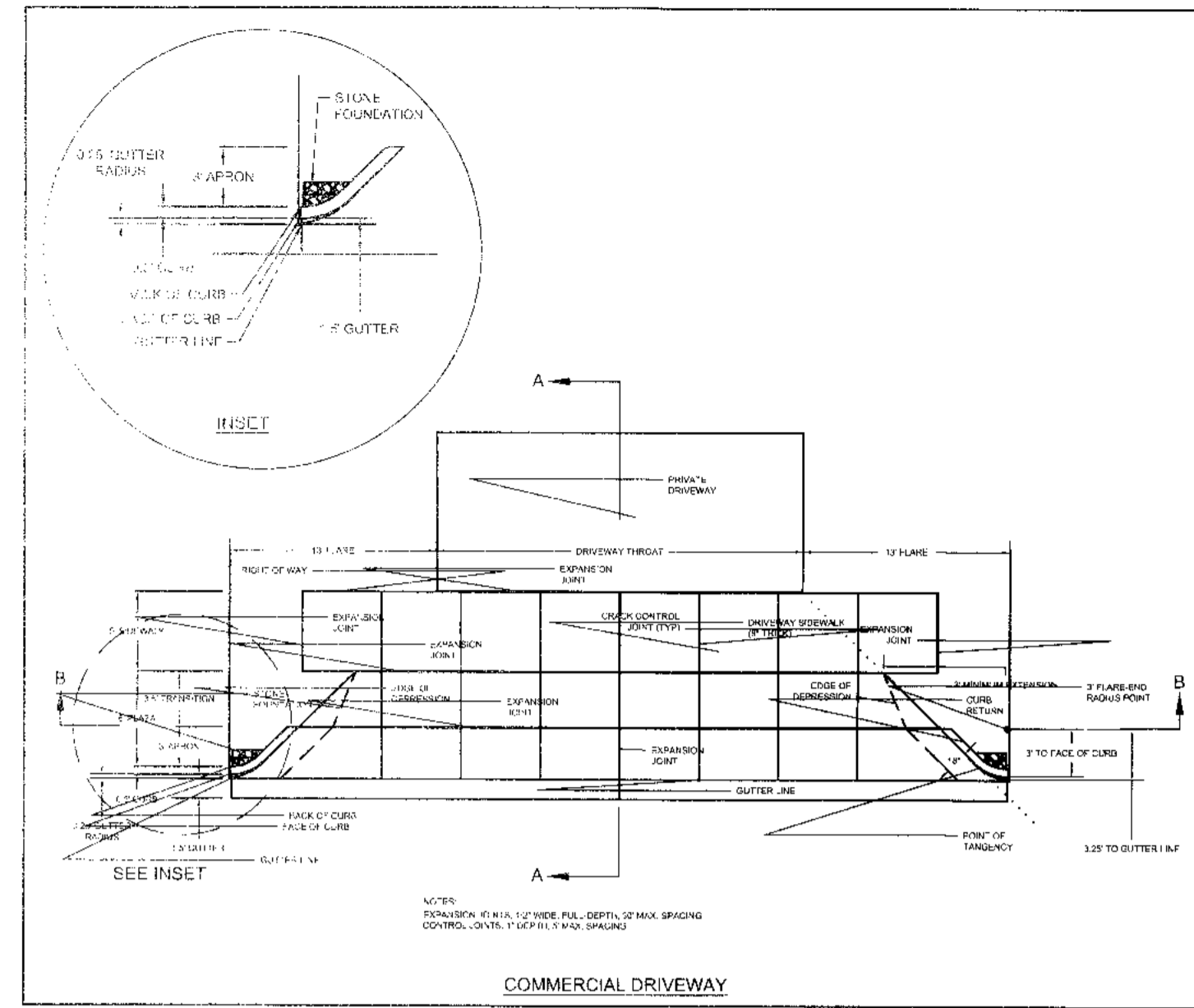


- NOTES:**
1. JOINT MATERIAL TO COMPLY WITH CURRENT AASHTO STANDARDS.
 2. SANITARY SEWER CLEANOUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 3. MINIMUM SIDEWALK WIDTH TO BE 8' MINIMUM IF PLACED AT BACK OF CURB.
 4. CONCRETE FOR ALL DRIVEWAYS, DRIVEWAYS AND PORTIONS CONTAINING A DRIVEWAY APPROX. SHALL BE CLASS "B" - 3,000 PSI.
 5. MINIMUM REINFORCEMENT FOR DRIVEWAYS: 6# 2" X 8" BARS.
 6. 4" STONE BASE MAY BE REQUIRED FOR HIGH TRAFFIC CONDITIONS.
 7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12'.
 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1.
 9. MIN GRAD FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CURBS 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 PAVT.

CONCRETE WALK SECTION

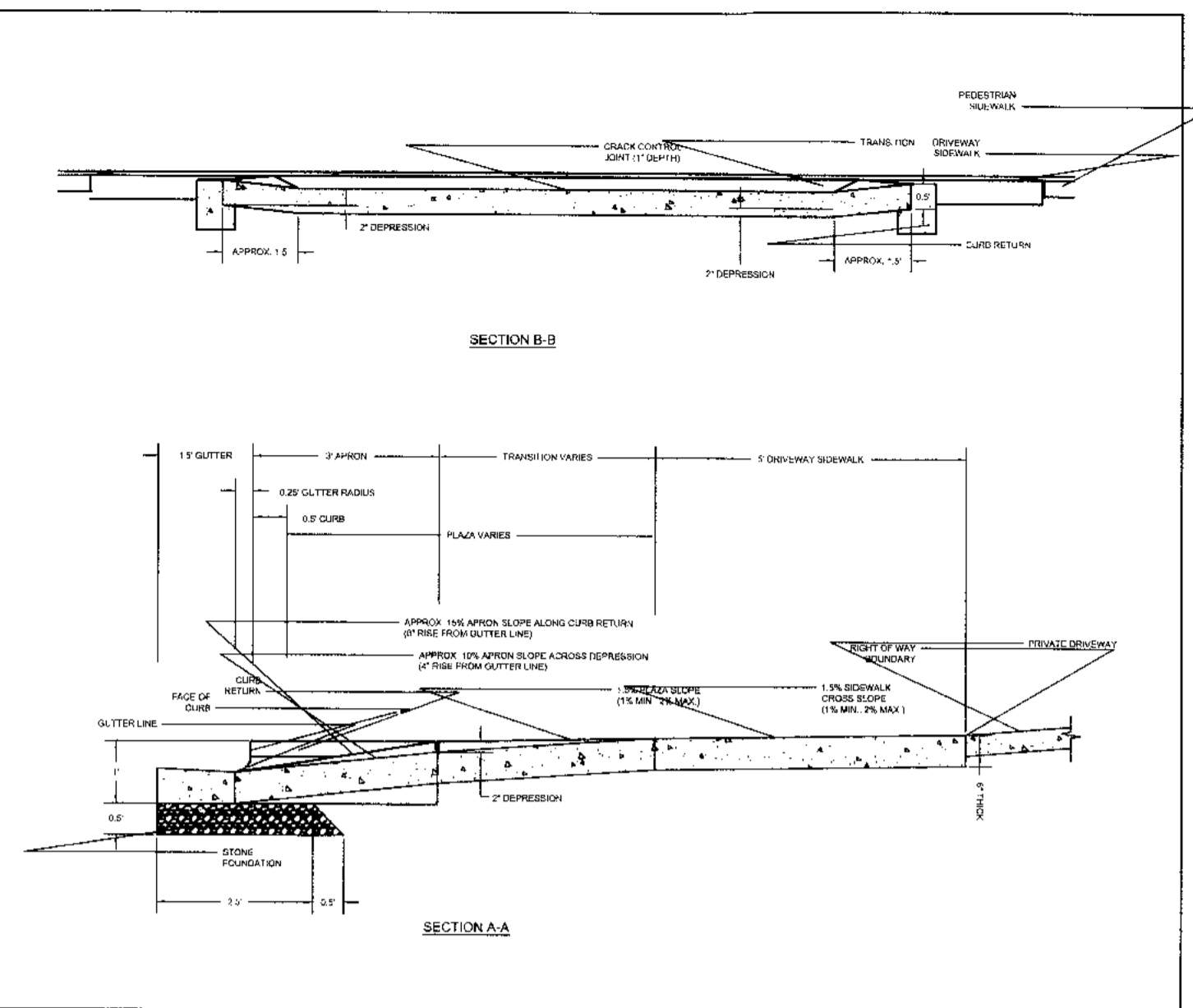


SHADOW BOX FENCE DETAIL
N.T.S.



PERVIOUS PAVER PAVEMENT SECTION
NOT TO SCALE

NOTE TO CONTRACTOR
PERVIOUS PAVER SECTIONS ARE TO BE INSTALLED FOR ALL PAVEMENT IS IN AND SITE STABILIZED. CONTRACTOR WILL TAKE PRECAUTIONS TO KEEP PAVERS FREE FROM DEBRIS AND SEDIMENT.

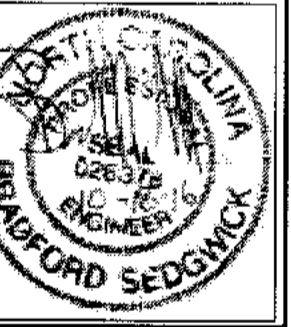


COMMERCIAL DRIVEWAY

DESIGN BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: AUGUST, 2016

DETAILS
SQUARE TWO
WILMINGTON, NC

L S SMITH, INC.
1607 Queen Street
Wilmington, NC 28401-5526
910-409-8782



JBS CONSULTING, PA
7332 Colesworth Drive
Wilmington, NC 28405
(910) 619-9990
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PLANNING - ENGINEERING - PROJECT MANAGEMENT

SHEET
C6
of 6
JOB NO. 104-002

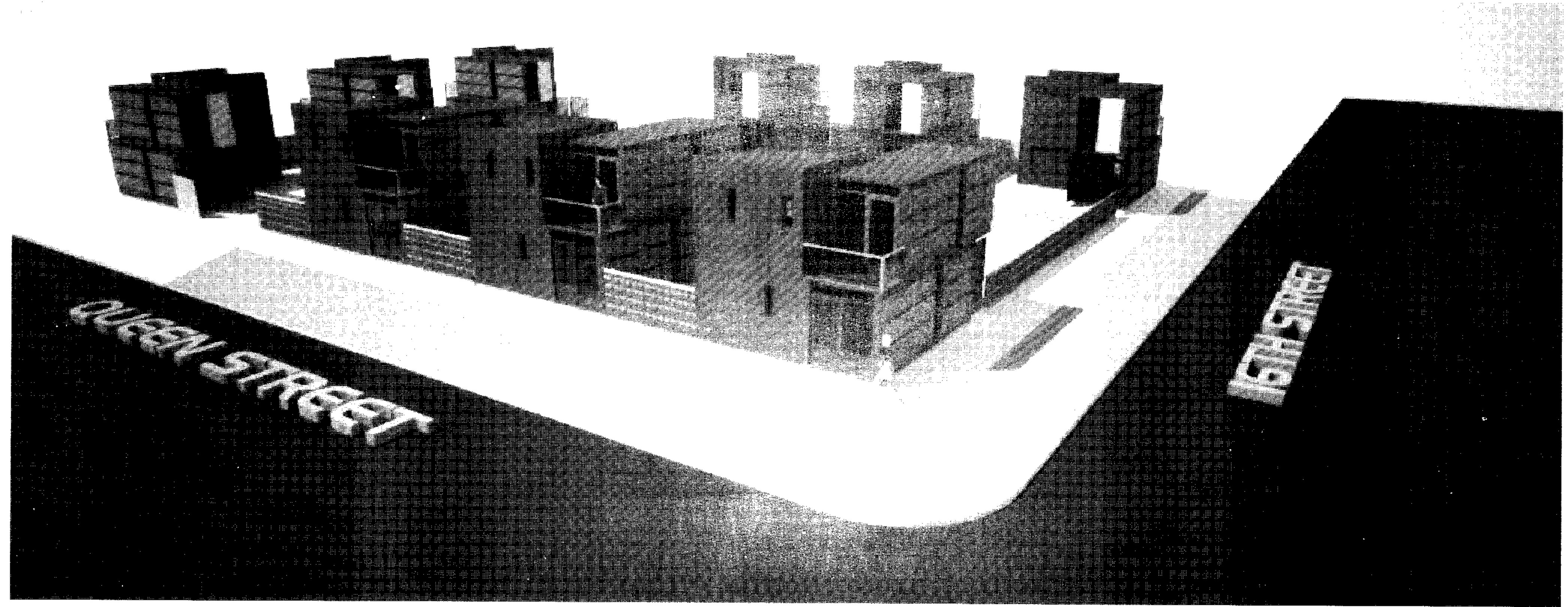
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02	10/11/16	TRC COMMENTS ADDRESSED REV 3
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04	10/11/16	TRC COMMENTS ADDRESSED
05	10/11/16	TRC COMMENTS ADDRESSED
06	10/11/16	TRC COMMENTS ADDRESSED
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100	10/11/16	TRC COMMENTS ADDRESSED

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED DRAINAGE PLAN
Date: 10/20/16 Permit #: 2016040
Signed: [Signature]

Approved Construction Plan

Planning	Name	Date
	[Signature]	10/21/16
Traffic	[Signature]	10-25-16
Fire	[Signature]	10-19-16

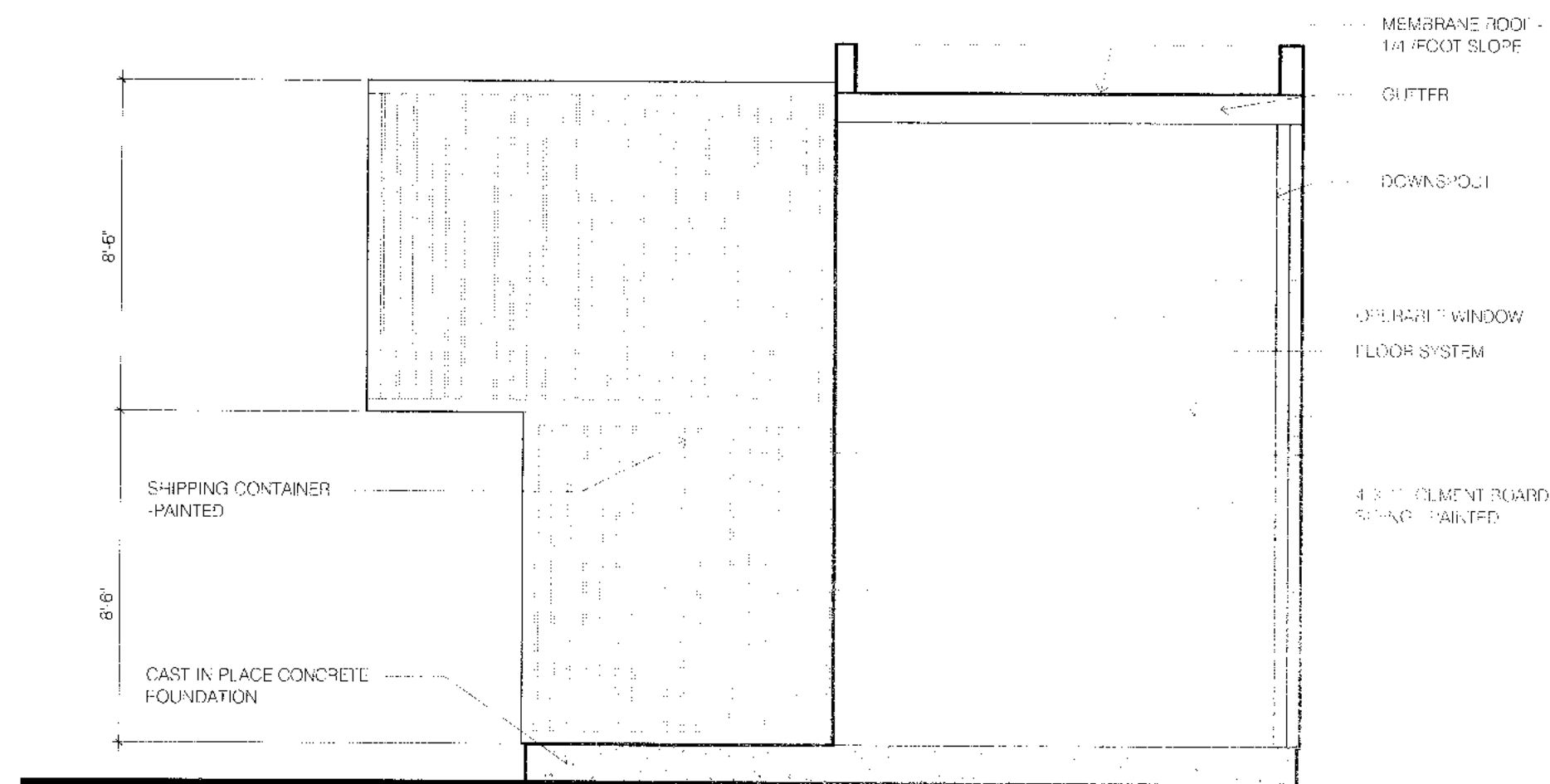
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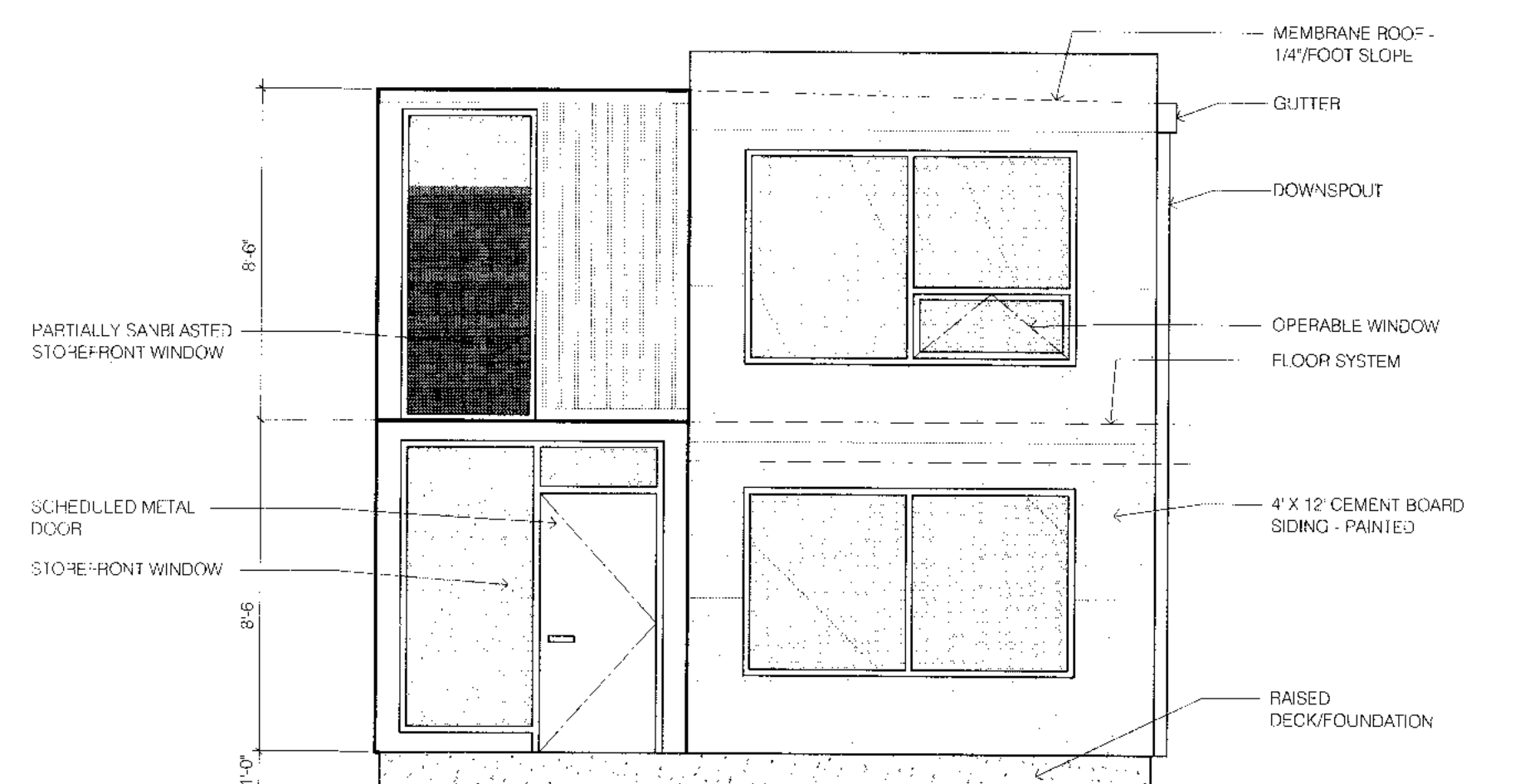
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Approved Construction Plan
 Name: [Signature] Date: 10/24/16
 Planning: [Signature] 10-25-16
 Traffic: [Signature] 10-19-16
 Fire: [Signature] 10-19-16

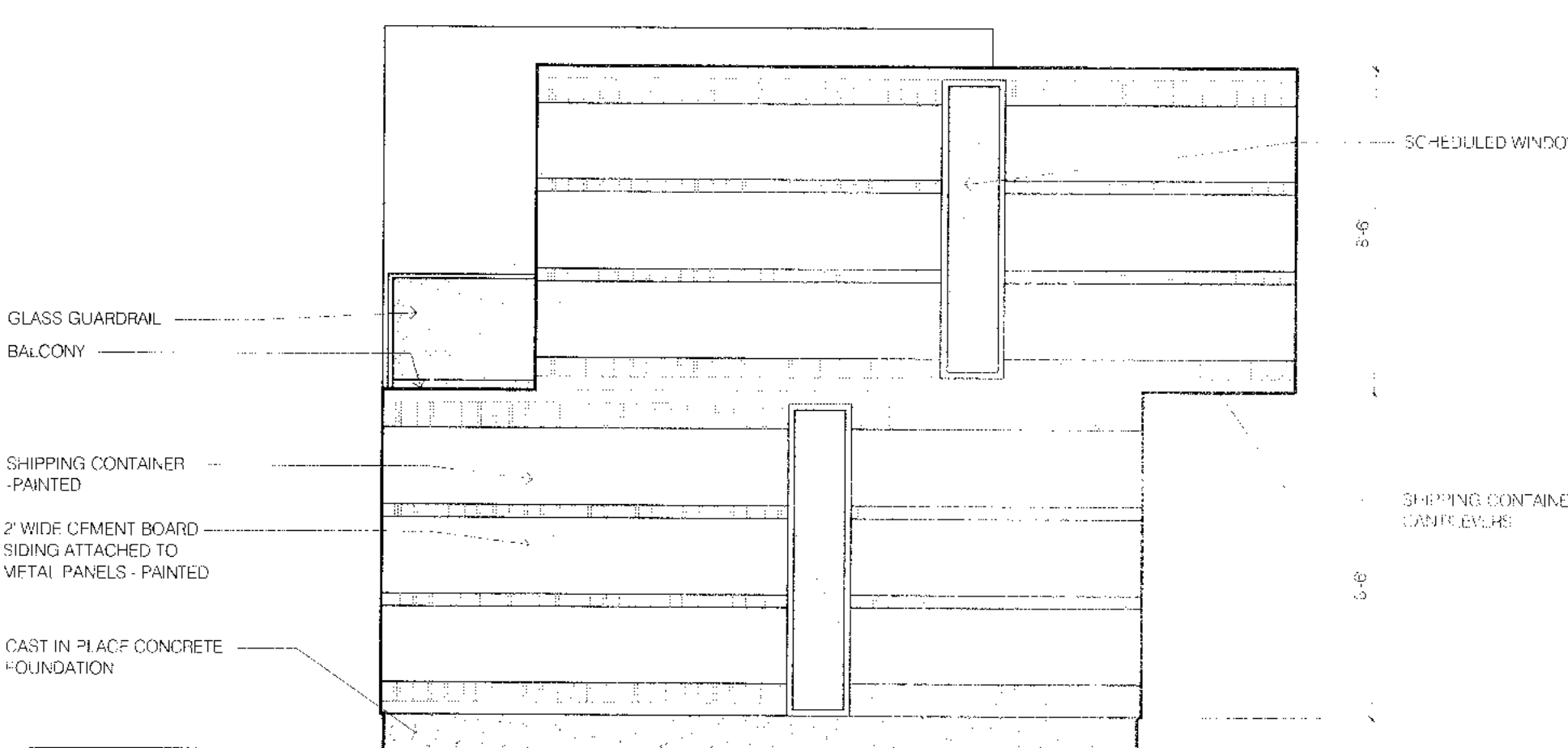
DRAINAGE PLAN APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE PERMIT NOT REQUIRED
 SIGNATURE: [Signature] DATE: 10/20/16
 DP 2016 040



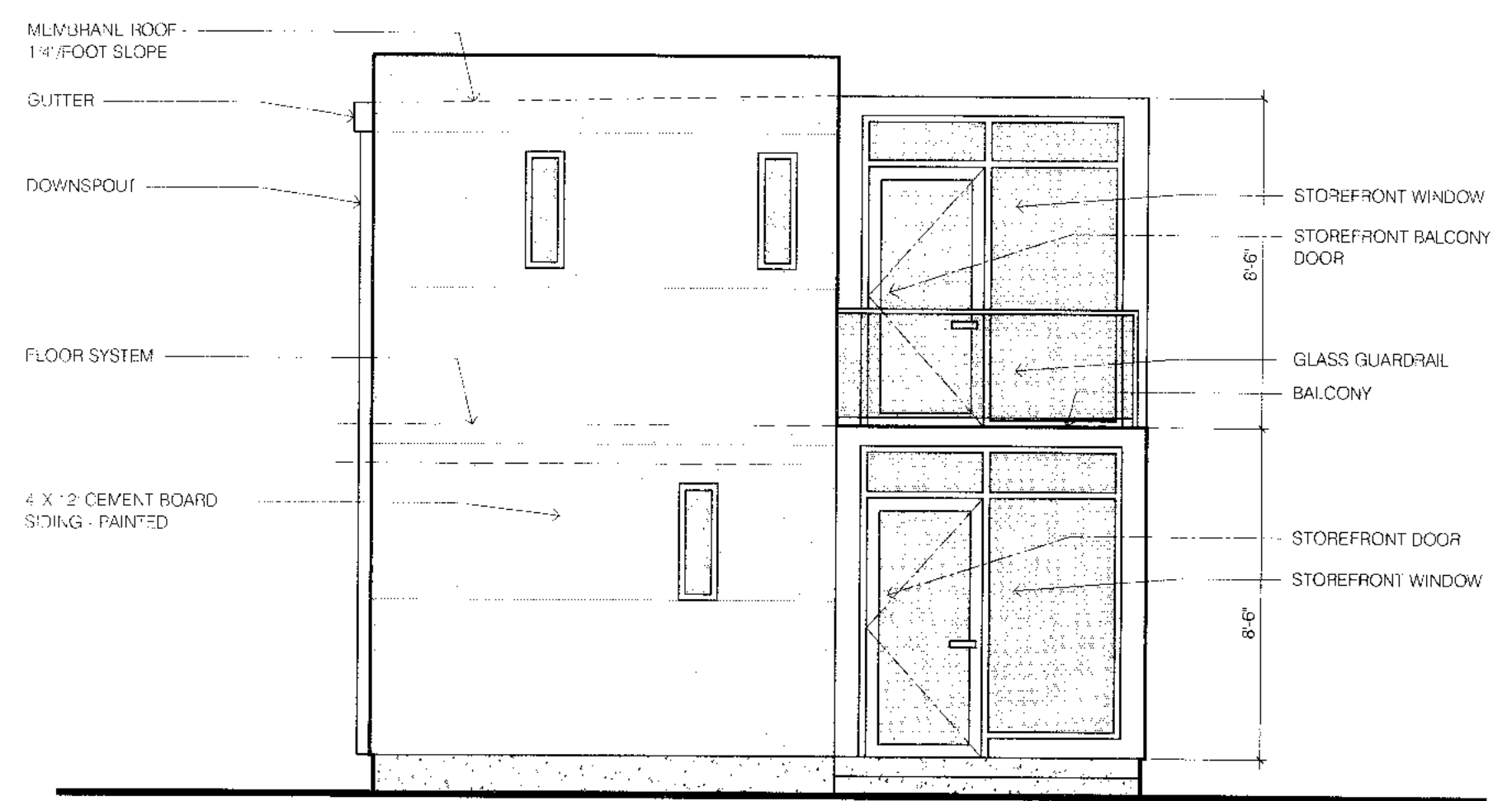
SIDE ELEVATION



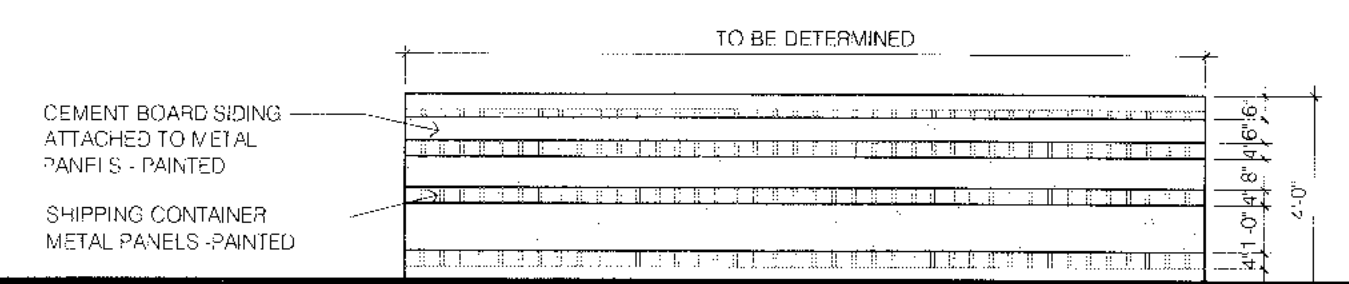
FRONT ELEVATION



16TH STREET ELEVATION



QUEEN STREET ELEVATION



FENCE DETAIL



Romero Architecture
 2305 PARKWAY DRIVE - WILMINGTON, NORTH CAROLINA 28403
 www.romeroarchitecture.com
 910.252.3377

SQUARE TWO
 1602 QUEEN STREET
 WILMINGTON, NORTH CAROLINA 28403

A1 DESIGN
 ISSUED FOR ITC SUBMISSION
 08/05/2016
 ISSUED FOR ITC SUBMISSION
 08/26/2016