SITE DEVELOPMENT PLANS for

HOURGLASS STUDIOS

613 Surrey Street, Wilmington, NC 28401

OWNER: HOURGLASS STUDIOS, LLC 521 SOUTH 3RD STREET WILMINGTON, NC 28401

ENGINEER:

Coastal Land Design, PLLC

Civil Engineering / Landscape Architecture Land Planning / Construction Management

NCBELS Firm License No: P.O.Box 1172

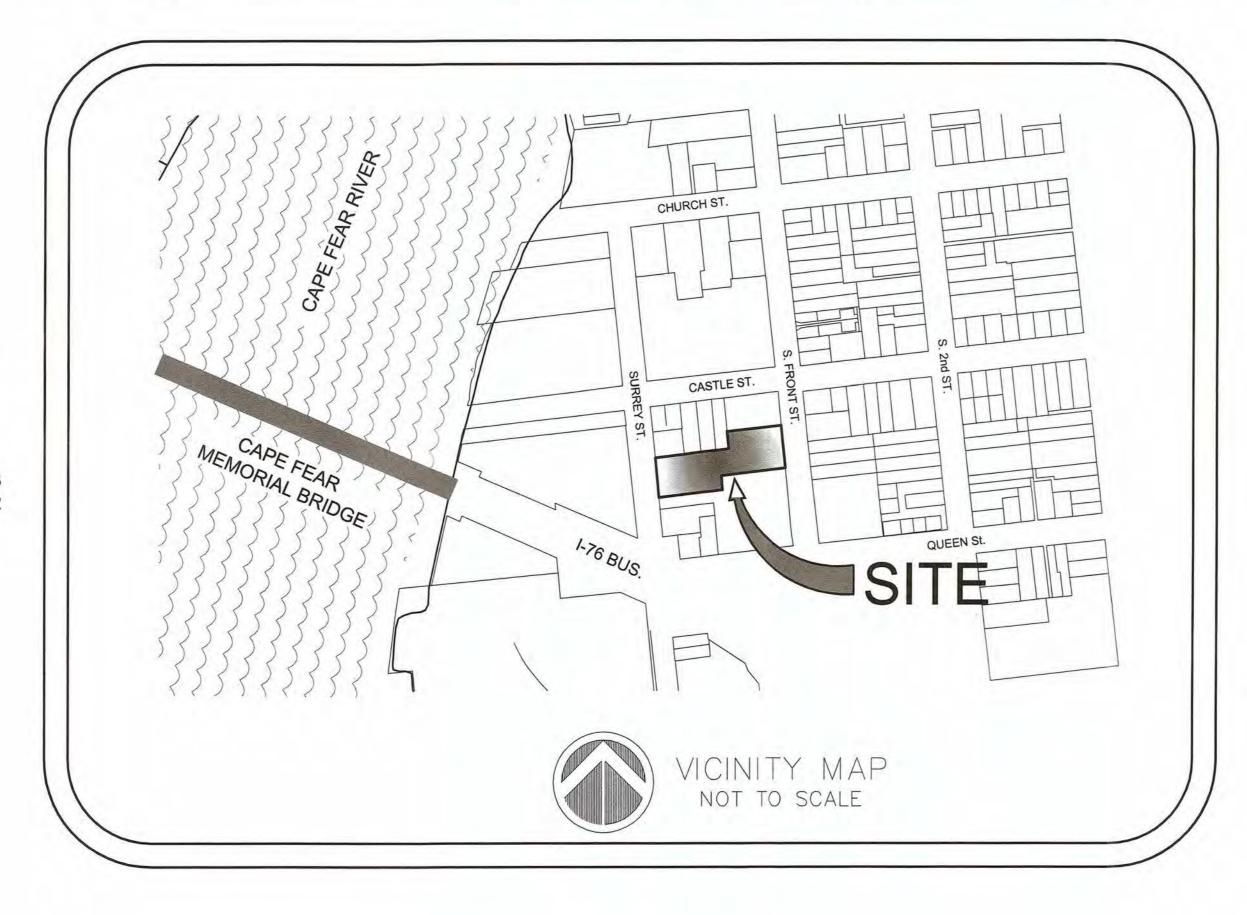
Phone: 910-254-9333 Wilmington, NC 28402 www.cldeng.com Fax: 910-254-0502

ARCHITECT:

KERSTING ARCHIITECTURE **4022 MARKET STREET** WILMINGTON, NC 28403 910-763-1348

CONTRACTOR: PARKER CONSTRUCTION GROUP 2030 EASTWOOD ROAD WILMINGTON, NC 28403 910-367-8739

SURVEYOR: POLARIS SURVEYING, PLLC 202 EAST BEDFORD ROAD WILMINGTON, NC 28411 (910) 616-4210



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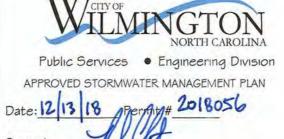
UTILITIES PLAN STORMWATER BMP DRAINAGE AREAS STORMWATER COLLECTION SYSTEM DRAINAGE AREAS INFILTRATION TRENCH 1 CONSTRUCTION DETAILS INFILTRATION TRENCH 2 & PERMEABLE CONCRETE CONSTRUCTION DETAILS STANDARD STORMWATER CONSTRUCTION DETAILS STANDARD CONSTRUCTION DETAILS STANDARD CONSTRUCTION DETAILS LANDSCAPE PLAN LIGHTING PLAN — DUKE ENERGY
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ARCHITECTURAL PERSPECTIVES

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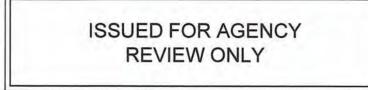
PLANNING CIVISION

WILMINGTON NORTH CAROLING Approved Construction Plan









NOT RELEASED FOR CONSTRUCTION





WILMINGTON

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JRC	E	JRC	TINI
RELEASE FOR CITY OF WILMINGTON TRC THIRD REVIEW AND STORMWATER	RELEASE FOR CITY OF WILMINGTON TRC SECOND REVIEW	INITIAL RELEASE FOR CITY OF WILMINGTON STORMWATER REVIEW	DESCRIPTION
6/15/18	2/19/18	1/29/18	DATE
O	В	∢	REV

OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED:	JRC	PROJECT:	755-00
CHECKED:	JBP	SCALE:	AS SHOWN
DESIGNED:	JRC	RELEASE:	PERMITTING

SHEET COVER PROJECT DATA: NAME: HOURGLASS STUDIOS

606, 610, 612 SOUTH FRON STREET 611, 613 SURREY STREET HOURGLASS STUDIOS, LLC

521 SOUTH 3RD STREET WILMINGTON, NC 28401 R05312-003-003-000 R05312-003-004-000 R05312-003-014-000 R05312-003-015-000 R05312-003-016-000

DEED BOOK 5961, PAGE 6035 UMX URBAN MIXED-USE LAND USE: COMMERCIAL/RESIDENTIAL 0.778 ACRES (33,842 SF)

FLOOD ZONE X (PANEL 37203117 K) LAND USE PLAN URBAN

2. DEVELOPMENT DATA PRO BUILDING HSF: 12,982 SF PRO BUILDING HEIGHT: 42 FEET MAX BUILDING HEIGHT: 45 FEET NUMBER OF STORIES: 2

> BUILDING COVERAGE BUILDING LOT COVERAGE: 38% ALLOWED COVERAGE: N/A

BUILDING SETBACKS FRONT: SEC 18-204-UMX C(2)C.

IN NO CASE SHALL FRONT SETBACKS ADJACENT TO THE PRIMARY STREET(S) OR AN INTERNAL STREET EXCEED 10 FEET.

SIDE: SEC 18-204-UMX C(2)A. INSIDE THE 1945 CORPORATE LIMITS, NO SETBACKS ARE REQUIRED EXCEPT WHEN ABUTTING A SINGLE-FAMILY RESIDENTIAL DISTRICT NORTH SIDE: 5 FEET REQUIRED

PARKING: SEC 18-204-UMX C(6)A. THERE ARE NO MINIMUM PARKING SPACES REQUIRED. PARKING SHALL NOT EXCEED THE MAXIMUM ESTABLISHED FOR ANY USE IN ARTICLE 9. PARKING SPACES PROVIDED: 6 (INCLUDES 1 ADA SPACE)

WATER AND SEWER CAPACITY CURRENT WATER: 970 GPD PROPOSED WATER: 1,000 GPD CURRENT SEWER: 970 GPD PROPOSED SEWER: 1,000 GPD

CURRENT CAPACITY BASED ON EXISTING SINGLE FAMILY DWELLING AND OFFICE/COMMERCIAL BUILDING. PROPOSED CAPACITY BASED ON THEATER CAPACITY OF 200 PERSONS AT 5 GALLONS PER PERSON.

TRASH COLLECTION

PRIVATE ROLL CART. VENDOR COLLECTION FOR EVENTS.

GENERAL SITE NOTES:

- THE PROPERTY BOUNDARY, TOPOGRAPHIC, AND UTILITY SURVEY SHOWN ON THESE PLANS WERE PROVIDED BY POLARIS SURVEYING, PLLC AT 202 EAST BEDFORD ROAD, WILMINGTON, NORTH CAROLINA 28411.
- THERE ARE NO WETLANDS ON THIS PROPERTY.
- THIS PROPERTY IS LOCATED WITHIN FEMA FLOOD ZONE X UNDER MAP PANEL 37203117K.
- THE TOTAL DISTURBED AREA FOR THIS PROJECT WILL BE APPROXIMATELY 0.9 ACRES AND INCORPORATES ON-SITE AND OFF-SITE (RIGHT-OF-WAY) AREAS.
- THE DEMOTION WORK ON THIS SITE REQUIRES A DEMOLITION PERMIT FROM THE CITY OF WILMINGTON.
- THE SITE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES ABOVE AND BELOW GROUND BEFORE COMMENCING CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIALS GENERATED THROUGH DEMOLITION AND GRUBBING ACTIVITIES SHOWN ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SEDIMENT-LADEN RUNOFF IS TREATED PRIOR TO BEING DISCHARGED FROM THE SITE AND MAY BE REQUIRED TO PROVIDE ADDITIONAL MEASURES OF SEDIMENT CONTROL BASED UPON THE PERFORMANCE OF EROSION CONTROL MEASURES PROVIDED ON SITE.
- DENUDED AREAS MUST BE STABILIZED BASED UPON THE GROUND STABILIZATION REQUIREMENTS PROVIDED
- ON THIS SHEET. THIS INCLUDES SLOPES, SWALES, CHANNELS, AND STOCKPILES. EXCELSIOR MATTING AND SEEDING TO BE USED ON SLOPES STEEPER THAN 2:1 AND IN ANY REGRADED DITCHES AS PART OF THIS EROSION CONTROL PLAN.

ALL TREES THAT ARE TO BE PROTECTED WITHIN DISTURBED AREAS SHALL BE WRAPPED IN TREE-PROTECTION FENCING PER CITY OF WILMINGTON REGULATIONS.

- 12. ALL STORM DRAIN DEVICES ARE DESIGNED TO PROVIDE POSITIVE DRAINAGE AND MUST BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION BE HARDWARE CLOTH AND GRAVEL INLET PROTECTION DEVICES.
- 13. CONSTRUCTION TRAFFIC MUST BE LIMITED ACROSS THE PERMEABLE CONCRETE AREAS PROVIDED IN THIS PLAN. THIS MAY REQUIRE THE PERMEABLE CONCRETE TO BE INSTALLED LAST, OR IN PHASES BASED UPON THE ERECTION OF THE BUILDING OR CONSTRUCTION OF OTHER SITE ITEMS.
- 14. RUNOFF FROM PROJECT DRAINS TO AN EXISTING STORMWATER DRAINAGE SYSTEM IN THE SURREY STREET RIGHT-OF-WAY. THE EXISTING SYSTEM MUST BE PROTECTED FROM SEDIMENTATION BY ON-SITE SILT FENCE AND SOCK-INLET PROTECTION DEVICES. ULTIMATELY, DRAINAGE FROM THIS SITE IS TO THE CAPE FEAR RIVER (I.D.: 18-74-(61), CLASSIFICATION: C; Sw) WITHIN THE CAPE FEAR RIVER BASIN.
- 15. MATERIAL AND SOIL STAGING/STOCKPILNIG AREAS SHALL BE LOCATED WITHIN THE LIMIT OF DISTRUBANCE, SURROUNDED BY SILT FENCE, AND STABILIZED AS REQUIRED BY THE STABILIZATION REQUIREMENTS AND SEEDING SCHEDULES.
- 16. ALL ROOF DRAINAGE FROM THE PROPOSED BUILDING AND EXISTING BUILDING TO REMAIN SHALL BE DIRECTED TO INFILTRATION TRENCH 1 AND INFILTRATION TRENCH 2. THE CONTRACTOR SHALL CONNECT THE BUILDING DOWNSPOUTS TO THE ROOF DRAIN HEADER SYSTEM PROVIDED IN THESE PLANS.
- 17. STORM DRAINAGE PIPES SHALL BE CORRUGATED PLASTIC PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
- 18. DENUDED AREAS MUST BE STABILIZED BASED UPON THE GROUND STABILIZATION REQUIREMENTS, AND TEMPORARY AND PERMANENT SEEDING SCHEDULES. THIS INCLUDES SLOPES, SWALES, CHANNELS, AND STOCKPILES.

GENERAL DEVELOPMENT NOTES:

- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- 2. 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 TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. ANY PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 4. 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.
- 5. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS, FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CALL TRAFFIC ENGINEERING AT (910) 341-7888 FORTY-EIGHT HOURS (48) PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 6. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING MUST BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS
- 8. PROJECT MUST COMPLY WITH THE CFPUA 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) 332-6419 FOR INFORMATION.
- 9. IF THE CONTRACTOR DESIRES CFPUA 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.
- 10. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATIONS. CALL (910) 332-6419 FOR INFORMATION.
- 11. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USCFCCCHR OR ASSE.
- 12. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
- 13. PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. NEITHER NCDOT OR THE CITY OF WILMINGTON WILL ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- 14. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OR-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 15. INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.

FIRE AND LIFE SAFETY NOTES:

FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.

SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.

BUILDING TYPE: TYPE V-B

For each open utility cut of

City streets, a \$325

shall be required from the

and/or project acceptance.

City prior to occupancy

WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696.

DURING CONSTRUCTION.

THE JOB SITE.

TAMPER SWITCH.

16. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN PARKING AREAS SHALL BE WHITE.

PERMEABLE PAVEMENT CONSTRUCTION STEPS:

INSTALLATION ARE CONSISTENT.

REFER TO THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY - STORMWATER STORMWATER DESIGN MANUAL, PERMEABLE PAVEMENT SECTION (C-5), CONSTRUCTION SECTION FOR FURTHER INFORMATION

- STEP-1 ENSURE ACCEPTABLE CONDITIONS FOR CONSTRUCTION DO NOT BEGIN CONSTRUCTION ON PERMEABLE PAVEMENT UNTIL ACCEPTABLE CONDITIONS ARE PRESENT.
- EXCAVATE THE PAVEMENT AREA AND PREPARE THE SUBGRADE CLEAR AND EXCAVATE THE AREA FOR PAVEMENT AND BASE COURSES WHILE PROTECTING AND MAINTAINING SUBGRADE INFILTRATION
- STEP-3 TEST THE SUBGRADE SOIL INFILTRATION RATE CONDUCT DIRECT MEASUREMENT OF THE SOIL'S INFILTRATION RATE IMMEDIATELY AFTER EXCAVATION AND BEFORE THE AGGREGATE IS PLACED. SOIL INFILTRATION RATE MUST BE PERFORMED BY AN APPROPRIATELY QUALIFIED PROFESSIONAL. IF THE SOIL INFILTRATION RATE HAS DIMINISHED SO THAT A 72-HOUR DRAWDOWN TIME IS NO LONGER POSSIBLE, RIP OR TRENCH THE SUBGRADE FUTURE TO RESTORE THE ORIGINAL INFILTRATION RATE.
- STEP-4 PLACE GEOTEXTILES AND GEOMEMBRANES (IF APPLICABLE) FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR THE APPROPRIATE OVERLAP BETWEEN ROLLS OF MATERIAL AND FOR SECURING THE GEOTEXTILE OR GEOMEMBRANE SO THAT IT DOES NOT WRINKLE WHEN PLACING THE AGGREGATE.
- STEP-5 PLACE CATCH BASINS, OBSERVATION WELL(S), AND UNDERDRAIN SYSTEM PLACE THE CATCH BASINS AND OBSERVATION WELLS PER THE DESIGN PLANS AND VERIFY THAT THE ELEVATIONS ARE CORRECT. IF AN UPTURNED ELBOW DESIGN IS USED, THEN THE UNDERDRAINS ARE PLACED FIRST.

STEP-6 PLACE AND COMPACT THE AGGREGATE BASE - INSPECT ALL AGGREGATES TO ENSURE THAT THEY

ARE FREE OF FINES AND CONFORM TO THE DESIGN SPECIFICATIONS. INSTALL THE CURB RESTRAINTS AND PAVEMENT BARRIERS - EDGE RESTRAINTS AND BARRIERS SHALL

BE INSTALLED PER THE DESIGN. BEFORE MOVING TO STEP-8, ENSURE THAT THE DESIGN AND

- INSTALL BEDDING AND PAVEMENT COURSES PERVIOUS CONCRETE (PC) PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSION OF ACI 522.1 SPECIFICATIONS FOR PERVIOUS CONCRETE, INSTALLATION OF PC MAY BE INSTALLED USING THE ONE-STEP OR THE
- STEP-9 PROTECT THE PAVEMENT THROUGH PROJECT COMPLETION IT IS PREFERABLE TO HAVE THE PC INSTALLED AT THE END OF SITE CONSTRUCTION. IF IT IS NOT POSSIBLE, PROTECT THE PAVEMENT UNTIL PROJECT COMPLETION.

PERMEABLE PAVEMENT POST-CONSTRUCTION INSPECTIONS AND CERTIFICATIONS:

TWO-STEP METHOD (THE TWO-STEP IS MORE COMMON).

REFER TO THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY - STORMWATER STORMWATER DESIGN MANUAL, PERMEABLE PAVEMENT SECTION (C-5), MDC-13 FOR FURTHER INFORMATION.

AFTER INSTALLATION, A FINAL AS-BUILT INSPECTION AND CERTIFICATION SHALL BE PERFORMED THAT INCLUDES: ENSURING THAT THE PAVEMENT IS INSTALLED PER THE PLANS AND SPECIFICATIONS; ENSURING THAT THE SURFACE IS NOT DAMAGED, AND IS FREE FROM FINES AND SEDIMENTS; CHECKING THAT ALL PERVIOUS SURFACES DRAIN AWAY FROM THE PAVEMENT AND THAT SOIL AROUND THE

- PAVEMENT IS STABILIZED WITH VEGETATION; PREPARING THE AS-BUILT PLANS THAT INCLUDE ANY CHANGES TO THE UNDERDRAINS, OBSERVATION WELL LOCATIONS, TERRACE LAYOUTS, AGGREGATE DEPTH OR STORAGE STRUCTURES, ANY REVISED CALCULATIONS, ETC.
- TESTING THE PAVEMENT SURFACE PERMEABILITY USING THE NCSU SIMPLE INFILTRATION TEST (SEE STORMWATER DESIGN MANUAL, SECTION C-5, MAINTENANCE SECTION 18.6.4) OR OTHER APPROPRIATE TEST SUCH AS ASTM C1701 STANDARD METHOD FOR INFILTRATION RATE OF IN-PLACE PERVIOUS CONCRETE.

GROUND STABILIZATION REQUIREMENTS STABILIZATION | STABILIZATION TIME DESCRIPTION TIME FRAME FRAME EXEMPTIONS PERIMETER DIKES, 7 DAYS NONE SWALES, DITCHES AND SLOPES HIGH QUALITY WATER 7 DAYS NONE (HQW) ZONES IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT SLOPES STEEPER 7 DAYS THAN 3:1 STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.

14 DAYS

14 DAYS

GRASS TYPE	AMOUNT/ 1000 SF.	TIME OF SEEDING	INITIAL		FERTILIZATION/1000 SF. MAINTENANCE	
RYE GRAIN	1-2 LBS.	NOV. THRU JAN.	25 LBS. 10-10-10	NA	NA	NA
BROWNTOP MILLET	1-2 LBS.	JUNE THRU AUG.	25 LBS. 10-10-10	NA	NA	NA

IN LENGTH

7 DAYS FOR SLOPES GREATER THAN 50 FEET

NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

TEMPORARY SEEDING SCHEDULE

SLOPES 3:1 OR

ALL OTHER AREAS

WITH SLOPES FLATTER

FLATTER

THAN 4:1

GRASS TYPE	AMOUNT/ 1000 SF.	TIME OF SEEDING	INITIAL		FERTILIZATION/1000 SF. MAINTENANCE	
BERMUDA, COMMON	1-2 LBS.	APR. THRU JUNE	25 LBS. 10-10-10	MARCH - APRIL 12 LBS. 10-10-10	EACH 4-8 WEEKS 1-2 LBS. N.	AUG SEPT. 12 LBS. 10-10-10
FESCUE, TALL (KENTUCKY 31)	5-7 LBS.	SEPT. THRU OCT. FEB. THRU OCT.	25 LBS. 10-10-10	FEB MARCH 12 LBS. 10-10-10	MAY & DEC. 1/2 TO 1 LB. N.	SEPT OCT. 12 LBS. 10-10-10
SERICEA LESPEDEZA (SLOPES)	1-2 LBS.	MARCH THRU APR.	25 LBS. 10-10-10	FEB MARCH	1/2 TO 1 LB. N.	NA

PERMANENT SEEDING SCHEDULE

WILMINGTON NORTH CAROLINA Approved Construction Plan Name MINGTON

CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES

NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO

LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE 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 ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY

ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK

CLOSELY WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR

HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE)

PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE

Public Services • Engineering Division APPROVED STORMWATER MANAGEMENT PLAN Date: 12 13 18 Permyt# 2018056

ISSUED FOR AGENCY **REVIEW ONLY**

NOT RELEASED FOR CONSTRUCTION

BEFORE YOU DIG, CALL

www.nc811.org



Coastal Land Design, PLLC Civil Engineering / Landscape Architecture Land Planning / Construction Management

NCBELS Firm License P-0369 Phone: 910-254-9333 Wilmington, NC 28402 Fax: 910-254-0502 www.cldeng.com

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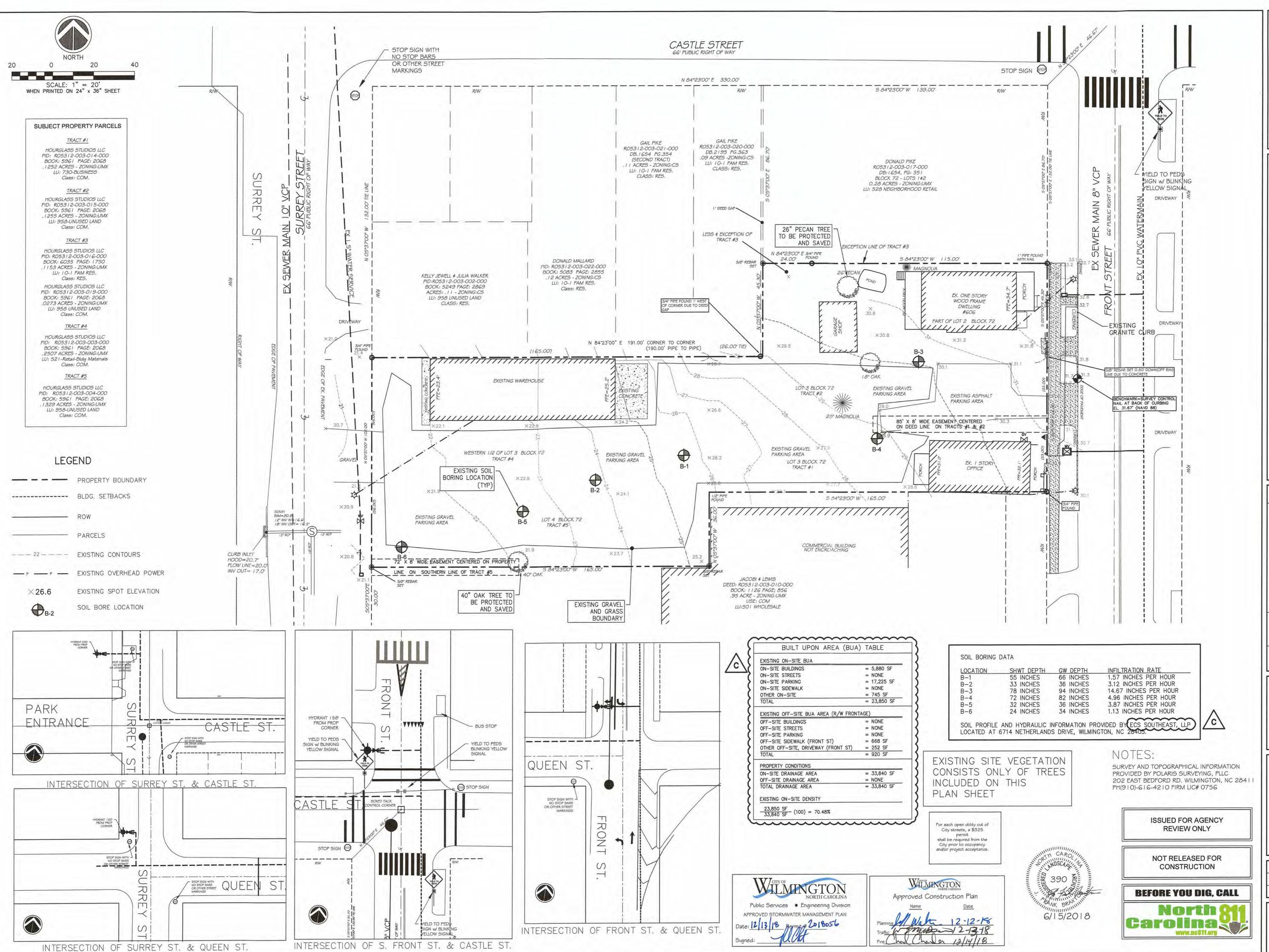
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OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED: JRC PROJECT: 435-04 CHECKED: JBP SCALE: NTS DESIGNED: FB/JC RELEASE: PERMITTING

> SHEET G-01



Phone: 910-254-9333 Wilmington, NC 28402 Fax: 910-254-0502 www.cldeng.com

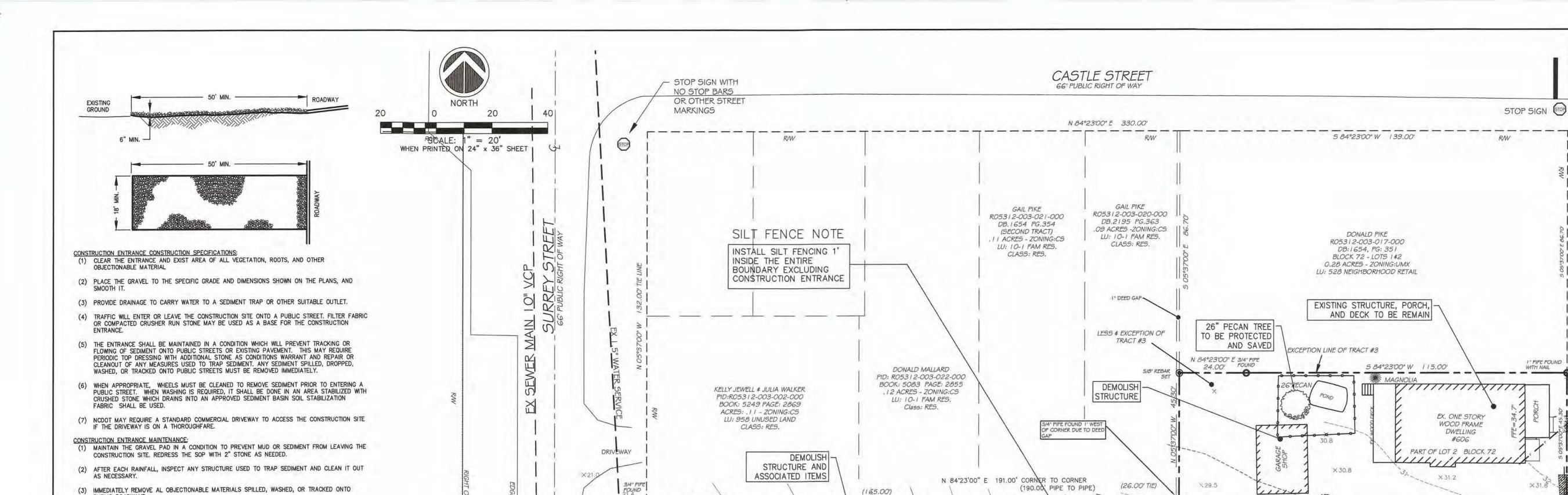
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OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED:	JFB	PROJECT:	435-04
CHECKED:	JRC	SCALE:	1"=20'
DESIGNED:	FB/JC	RELEASE:	TRC

SHEET EX-01



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. - CRZ NOTES:

1. 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.

2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).

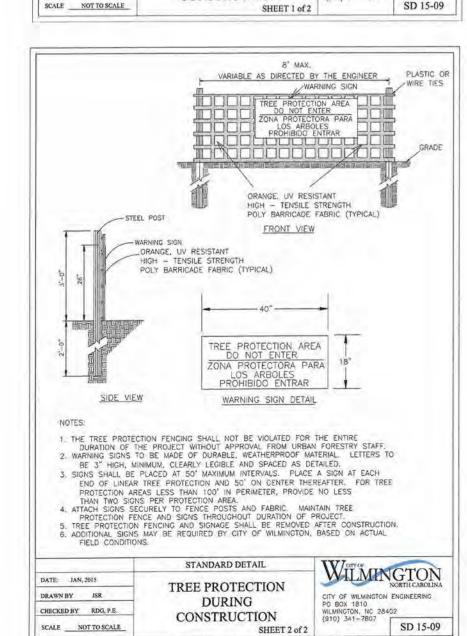
3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.

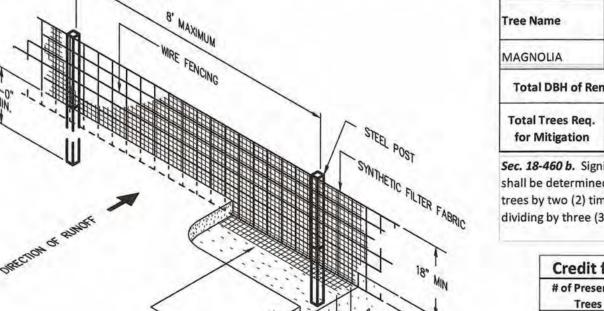
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.

5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES. 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. WILMINGTON TREE PROTECTION CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 DRAWN BY JSR DURING CHECKED BY RDG, P.E. CONSTRUCTION

PUBLIC ROADWAYS.

CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE





GRAVEL

SEDIMENT FENCE CONSTRUCTION SPECIFICATIONS: (1) SILT FENCE IS TO BE TRENCHED IN WITH TRENCHING MACHINE IN ORDER TO HAVE THE MINIMUM AREA OF DISTURBANCE (NON-EVASIVE) UPON INSTALLATION.

INSTALL GRAVEL

ACCESS TO SITE

ENTRANCE OVERTOP

OF EXISTING GRAVEL

POWER POLE TO

CONTRACTOR TO

AT&T OR DUKE

COORDINATED WITH

12" INV IN=16.6 18" INV OUT= 16.5"

12° RCP

BE REMOVED

ENERGY

DEMO EXISTING

AND PARALLEL

PARKING

CURB INLET

HOOD=20.7'

FLOW LINE=20.0

INV OUT= 17.0'

ROADWAY SECTION FOR NEW DRIVEWAY

CONSTRUCTION

- (2) HEIGHT OF SEDIMENT FENCE IS NOT TO EXCEED 18" ABOVE THE GROUND SURFACE. (3) FILTER FABRIC TO BE CONSTRUCTED FROM CONTINUOUS ROLL CUT TO LENGTH TO AVOID
- JOINTS. IF JOINTS ARE NECESSARY, FILTER CLOTH IS TO BE SECURELY FASTENED TO SUPPORT (4) FILTER FABRIC TO BE SUPPORTED BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY STAPLES AT LEAST 1" LONG OR TIE WIRES. EXTEND WIRE
- (5) A MAXIMUM OF 8' STAKE SPACING IS ALLOWED WHEN WIRE MESH SUPPORT FENCE IS USED. SUPPORT POST SHOULD BE DRIVEN SECURELY INTO THE GROUND A DISTANCE OF AT LEAST
- (6) EXTRA STRENGTH FILTER FABRIC WITH 6' POST SPACES DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. STAPLE OR WIRE THE FILTER FABRIC DIRECTLY TO POSTS.
- (7) EXCAVATE A TRENCH APPROXIMATELY 4" WIDE AND 8" DEEP ALONG THE PROPOSED LINE OF
- (8) BACKFILL TRENCH WITH COMPACT SOIL OR GRAVEL PLACED OVER THE FILTER FABRIC.
- (9) DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

POSTS AND UPSLOPE FROM THE BARRIER.

MESH SUPPORT TO THE BOTTOM OF THE TRENCH.

Tree Name	# of Trees	DBH	% Mitigation	Total DBH
MAGNOLIA	1	28"	100	28
Total DBH of Re	moved Signific	ant Trees	=	28"
Total Trees Req. for Mitigation	=	Total	DBH x 2	= 19

EXISTING WAREHOUSE

WESTERN 1/2 OF LOT 3 BLOCK 72

X22.6

LOT 4 BLOCK 72

TRACT #5

TRACT #4

X21.9

EXISTING GRAVEL

PARKING AREA

72' X 8' WIDE EASEMENT CENTERED ON PROPERTY

LINE ON SOUTHERN LINE OF TRACT #5 ____ 40" OAK

40" OAK TREE TO

BE PROTECTED

AND SAVED

CONCRETE.

EXISTING GRAVEL

PARKING AREA

X24.1

×23.7

EXISTING ON-SITE BUA

ON-SITE BUILDINGS

ON-SITE STREETS

ON-SITE SIDEWALK

ON-SITE BUILDINGS

ON-SITE STREETS

ON-SITE PARKING

ON-SITE SIDEWALK

ON-SITE BUILDINGS

ON-SITE STREETS

ON-SITE PARKING

OTHER ON-SITE

ON-SITE SIDEWALK

OTHER ON-SITE

DEMOLISHED ON-SITE BUA

EXISTING ON-SITE BUA TO REMAIN

ON-SITE PARKING

OTHER ON-SITE

REMOVE EXISTING

COMPACTED

GRAVEL LOT

X 26.6

×26.2

y multiplying the trees by two (2) times the percentage for the type of tree in Table IV and dividing by three (3).

Credit for P	reserve	d Trees (Sec.	18-448 Table 1)
# of Preserved Trees	Size (DBH)	Credit Given	Resulting Credit
1	40"	DBH/6	7
1	26"	DBH/7	4
Total resulting Cr Preserved Tr		=	11

SEDIMENT FENCE MAINTENANCE: INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY

- SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACED IT PROMPTLY. REPLACE BURLAP EVERY 60 DAYS.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY



DEMOLITION NOTES

EXISTING ASPHALT

OFFICE

PARKING AREA

85' X 8' WIDE EASEMENT CENTERED

ON DEED LINE ON TRACTS #1 & #2

DEMOLISH -

STRUCTURE AND ASSOCIATED ITEMS

REMOVE TREE

28" MAGNOLIA

COMMERCIAL BUILDING NOT ENCROACHING

EXISTING OFF-SITE BUA AREA (R/W FRONTAGE)

= NONE

= NONE

= NONE

= 668 SF

= 252 SF

= NONE

= 406 SF

= NONE

= 668 SF

= NONE

= 0 SF

= NONE

= 0 SF

= 0 SF

= 0 SF

ISSUED FOR AGENCY

REVIEW ONLY

NOT RELEASED FOR

CONSTRUCTION

BEFORE YOU DIG, CALL

North

Carolina

= 1,326 SF

= 920 SF

EXISTING GRAVEL

PARKING AREA

LOT-3 BLOCK 72

TRACT #2

REMOVE -

EXISTING GRAVEL X27.9

LOT 3 BLOCK 72

TRACT #1

PARKING AREA

JACOBI & LEWIS DEED: R05312-003-010-000

BOOK: 1126 PAGE: 856

.95 ACRE - ZONING:UMX

USE: COM LU:501 WHOLESALE

BUILT UPON AREA (BUA) TABLE

OFF-SITE BUILDINGS

OFF-SITE STREETS

OFF-SITE PARKING

OFF-SITE BUILDINGS

OFF-SITE PARKING

OFF-SITE BUILDINGS

OFF-SITE STREETS

OFF-SITE PARKING

OFF-SITE SIDEWALK

OTHER OFF-SITE, DRIVEWAY

OFF-SITE SIDEWALK (FRONT ST)

OFF-SITE STREETS (SURREY ST)

OFF-SITE SIDEWALK (FRONT ST)

OTHER OFF-SITE, DRIVEWAY (FRONT ST)

DEMOLISHED OFF-SITE BUA (R/W FRONTAGE)

OTHER OFF-SITE, DRVIEWAY (FRONT ST) = 252 SF

EXISTING OFF-SITE BUA TO REMAIN (R/W FRONTAGE)

= 5.880 SF

= 17,225 SF

= 23,850 SF

= 4,390 SF

= 17,225 SF

= 22,360 SF

= 1,490 SF

= NONE

= NONE

= NONE

= NONE

= 1,490 SF

= NONE

= NONE

= 745 SF

= NONE

= NONE

= 745 SF

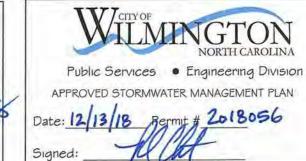
TREE

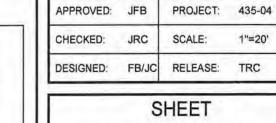
- CONTRACTOR TO VERIFY UTILITIES ABOVE AND BELOW GROUND PRIOR TO STARTING DEMOLITION WORK.
- CONTRACTOR TO OBTAIN DEMOLITION PERMITS PRIOR TO BEGINNING WORK. CONTRACTOR TO COORDINATE WITH THE CITY AND UTILITY PROVIDERS PRIOR TO COMMENCING DEMOLITION WORK.
- 4. ALL DEMOLITION WASTE MATERIAL MAY BE TEMPORARILY STOCKPILED ON SITE BUT MUST BE PROTECTED FROM EROSION AND SITUATED SUCH THAT IT IS NOT A SAFETY HAZARD. DEMOLITION WAS MUST ULTIMATELY BE REMOVED FROM SITE AND DISPOSED OF IN THE APPROPRIATE CONSTRUCTION DEBRIS-HANDLING FACILTY.
- 5. ALL STRUCTURES AND BUILT UPON AREA ON THE SITE SHALL BE REMOVED WITH THE EXCEPTION OF THE BUILDING, PORCH, AND DECK LOCATED IN THE NORTHEAST 6. TREE-PROTECTION FENCING MUST BE INSTALLED AROUND THE 40-INCH OAK TREE
- AND 26-INCH PECAN TREE PRIOR TO DEMOLITION WORK. THE TREES SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE LIFE OF THE PROJECT.
- OBJECTIONABLE VEGETATION MAY BE REMOVED AS NEEDED AND DISPOSED OF IN THE APPROPRIATE DEBRIS-HANDING FACILITY.
- EXISTING SITE PLAN AND IMPERVIOUS DELINEATION PROVIDED BY TOPOGRAPHICAL, UTILITY AND SITE SURVEY PERFORMED BY POLARIS SURVEYING, PLLC LOCATED AT 202 EAST BEDFORD ROAD, WILMINGTON, NC 28411.

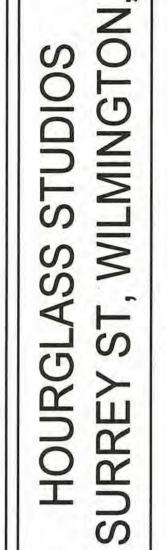


City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.









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Phone: 910-254-9333

Fax: 910-254-0502

P.O.Box 1172

SIGN W/ BLINK NO

DRIVEWAY

YELLOW SIGNAL

Ō

REMOVE EXISTING

DRIVEWAY & REPLACE

C.O.W. GRANITE CURB

BENCHMARK=SURVEY CONTROL

NAIL AT BACK OF CURBING EL. 31.67' (NAVD 88)

REMOVE EXISTING

DRIVEWAY & REPLACE

REMOVE EXISTING

ASPHALT PARKING

REMOVE EXISTING SIDEWALK FOR

DRIVEWAY APRON

(TYP, FRONTAGE)

POWER POLE TO BE

REMOVED/RELOCATED

COORDINATE WITH AT&T

CONTRACTOR TO

OR DUKE ENERGY

INSTALLATION OF NEW

C.O.W. GRANITE CURB

I" PIPE FOUND WITH NAIL

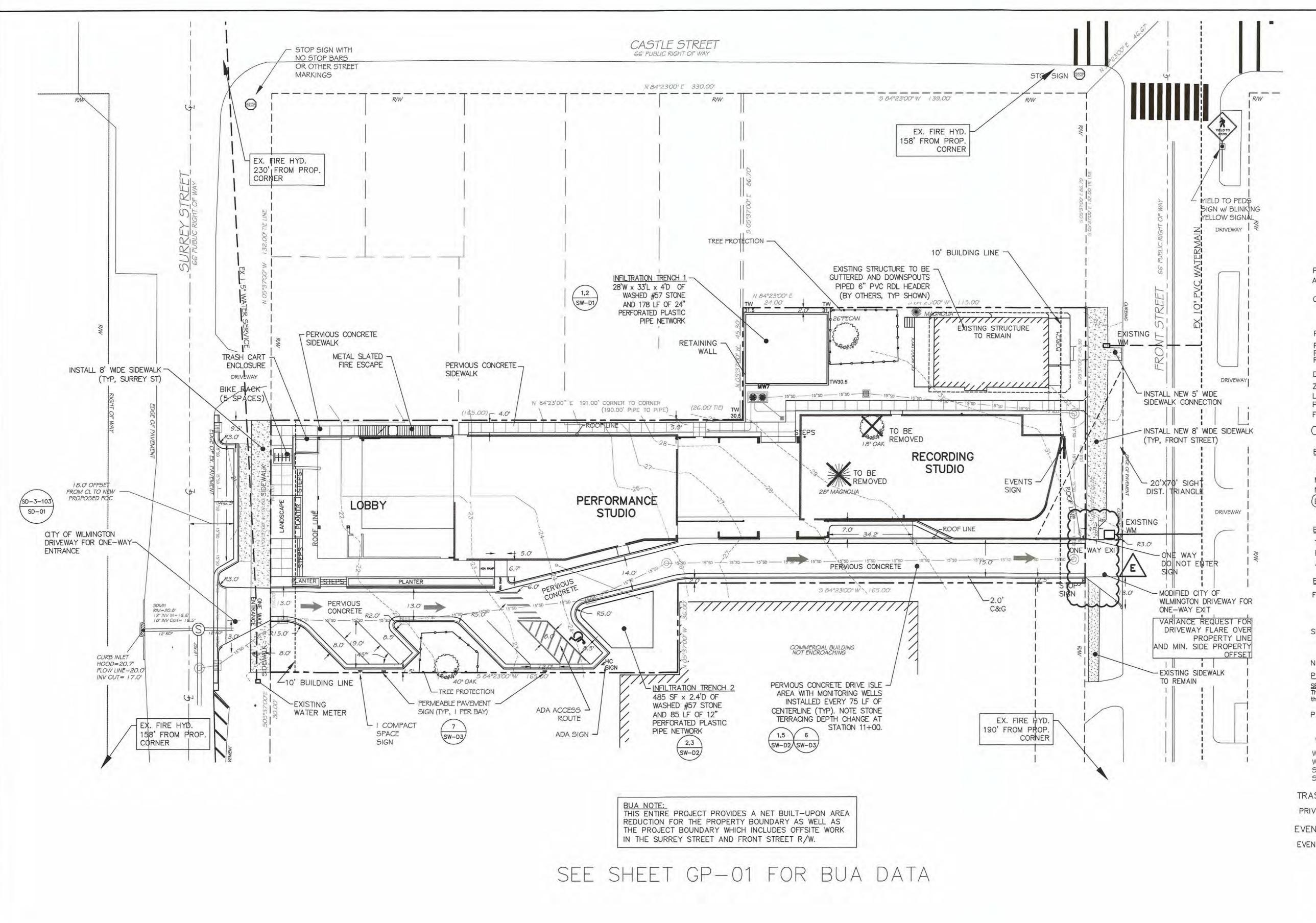
Wilmington, NC 28402

JRC DRC	JFB	JRC	TINI
ADDED TEXT CLARIFICATION AND EXISTING BUA TO REMAIN TABLE	RELEASE FOR CITY OF WILMINGTON TRC SECOND REVIEW	INITIAL RELEASE FOR CITY OF WLMINGTON STORMWATER REVIEW	DESCRIPTION
6/15/18	2/19/18	1/29/18	DATE
U	В	4	REV

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OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401





WILMINGTON

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

City streets, a \$325

shall be required from the

City prior to occupancy and/or project acceptance.

WILMINGTON NORTH CAROLINA

Approved Construction Plan

SCALE: 1" = 20' WHEN PRINTED ON 24" x 36" SHEET



SITE DATA

PROJECT: ADDRESS: OWNER:

HOURGLASS STUDIOS 606,610,612 S. FRONT STREET 611,613 SURREY STREET HOURGLASS STUDIOS, LLC. 521 3RD ST S WILMINGTON, NC 28401

PID#:

R05312-003-003-000, R05312-003-004-000,

D.B. BK 5961, PG 2068 BK 6035, PG 1750 UMX URBAN MIXED-USE LAND USE: COMMERCIAL/RESIDENTIAL PARCEL SIZE: 0.781 AC (34,016 SF) FLOOD ZONE: ZONE X-FIRM PANEL #37203117 K

CAMA LAND USE: URBAN

BUILDING DATA

PROPOSED BUILDING: 12,982 SF PROPOSED BLDG HT: 42 FT MAX BLDGHT: 45 FT NUMBER OF STORIES: 2 STORIES BUILDING TYPE: TYPE V-B

BUILDING COVERAGE

TOTAL BLDG FOOTPRINT: 12,982 SF BLDG LOT COVERAGE: 0.38% ALLOWED COVERAGE: NA

BUILDING SETBACKS:

SEC. 18-204.-UMX c(2)c. In no case shall front setbacks adj. to the primary street(s) or an internal street exceed (10) feet.

SEC. 18-204.-UMX c(2)a.
Inside the 1945 corperate limits, no setbacks are req'd except where abutting a single-family res. district.

NORTH SIDE: 5' REQUIRED

SEC. 18-204.-UMX c(6)a. There are no min. parking req. Parking shall not exceed the max.parking req. established for any use in ARTICLE 9.

PARKING PROVIDE: 7 SPACE TOTAL (INCLUDES 1 ADA SPACE)

WATER AND SEWER CAPACITY WATER: 970 GPD (CURRENT) WATER: 1,000 GPD (PROPOSED) SEWER: 970 GPD (CURRENT) SEWER: 1,000 GPD (PROPOSED)

TRASH COLLECTION

PRIVATE ROLL CART. VENDOR COLLECTION FOR EVENTS.

EVENTS SIGN

EVENTS SIGN WILL REQUIRE AN INDIVIDUAL SIGN PERMIT

ISSUED FOR AGENCY **REVIEW ONLY**

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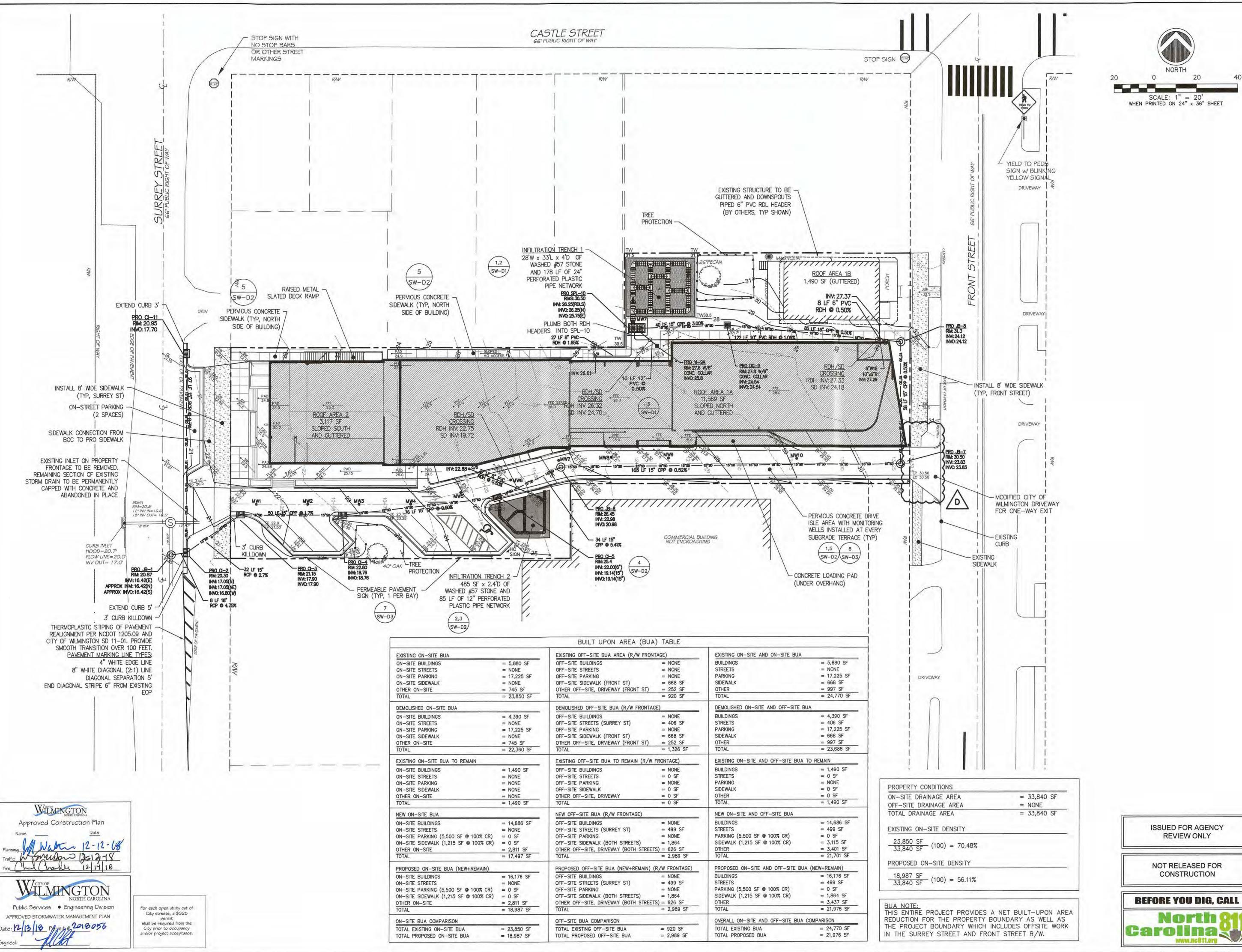
FB RC NT

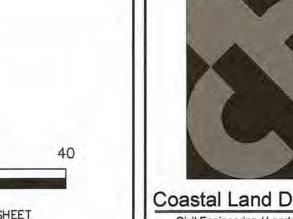
OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED:	JFB	PROJECT:	435-04
CHECKED:	JRC	SCALE:	1"=20'
DESIGNED:	FB/JC	RELEASE:	TRC

SHEET SP-01





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STUDIOS Z \leq S S HOURGI 3 0

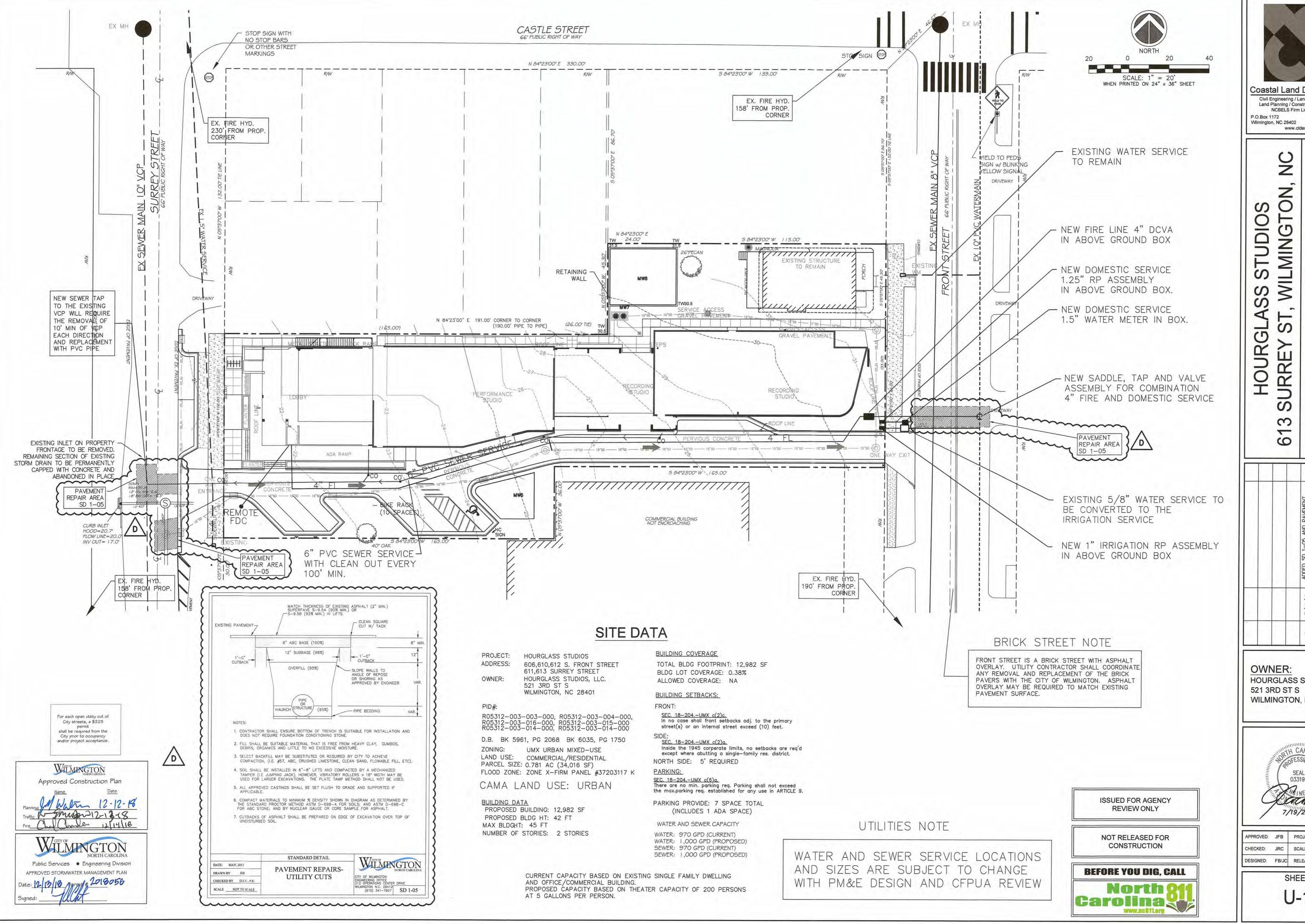
JRC	JRC	图	JRC	TINI
ADJUSTED SIDEWALK WIDTH TAPER ADJACENT TO COMMERCIAL DRIVEWAY	MINOR SITE PLAN MODIFICATION WITH UPDATE PER COW SW COMMENTS	RELEASE FOR CITY OF WILMINGTON TRC SECOND REVIEW	INITIAL RELEASE FOR CITY OF WILMINGTON STORMWATER REVIEW	DESCRIPTION
8/6/18	6/15/18	2/19/18	1/29/18	DATE
0	O	В	A	REV

OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED:	JFB	PROJECT:	435-04
CHECKED:	JRC	SCALE:	1"=20'
DESIGNED:	FB/JC	RELEASE:	TRC

SHEET **GP-01**





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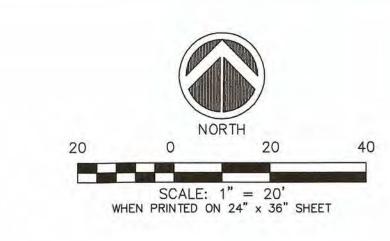
www.cldeng.com

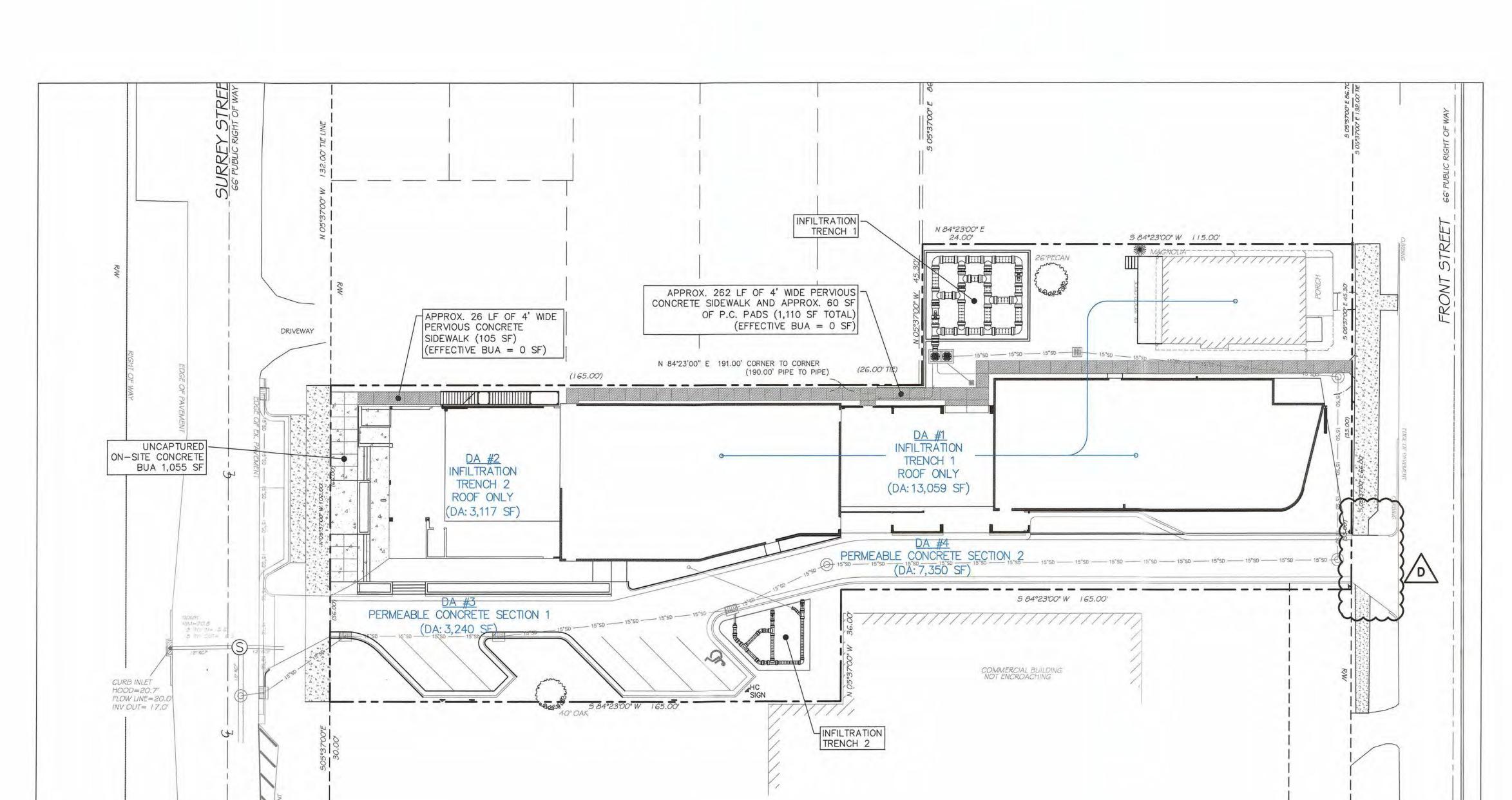
HOURGLASS STUDIOS, LLC WILMINGTON, NC 28401



APPROVED: JFB PROJECT: 435-04 CHECKED: JRC SCALE: 1"=20" DESIGNED: FB/JC RELEASE: TRC

SHEET





HOURGLASS STUDIOS 13 SURREY ST, WILMINGTON, NC

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P.O.Box 1172 Phone: 910-254-9333
Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

D 8/6/18 ADJUSTED SIDEWALK WIDTH TAPER CADJACENT TO COMMERCIAL DRIVEWAY UPDATED DRAINAGE AREAS URC
B 2/19/18 RELEASE FOR CITY OF WILMINGTON TRC SECOND REVIEW INITIAL RELEASE FOR CITY OF WILMINGTON STORMWATER REVIEW INITIAL REVIEW INITIAL REPRESENTED STORMWATER REVIEW INITIAL REVIEW INITIAL REVIEW INITIAL REVIEW INITIAL REVIEW INITIAL

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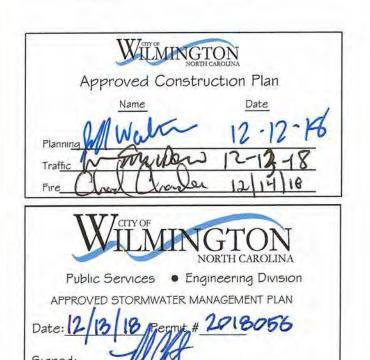
OWNER:
HOURGLASS STUDIOS, LLC
521 3RD ST S
WILMINGTON, NC 28401



APPROVED:	JFB	PROJECT:	435-04
CHECKED:	JRC	SCALE:	1"=20'
DESIGNED:	FB/JC	RELEASE:	TRC

SW-01

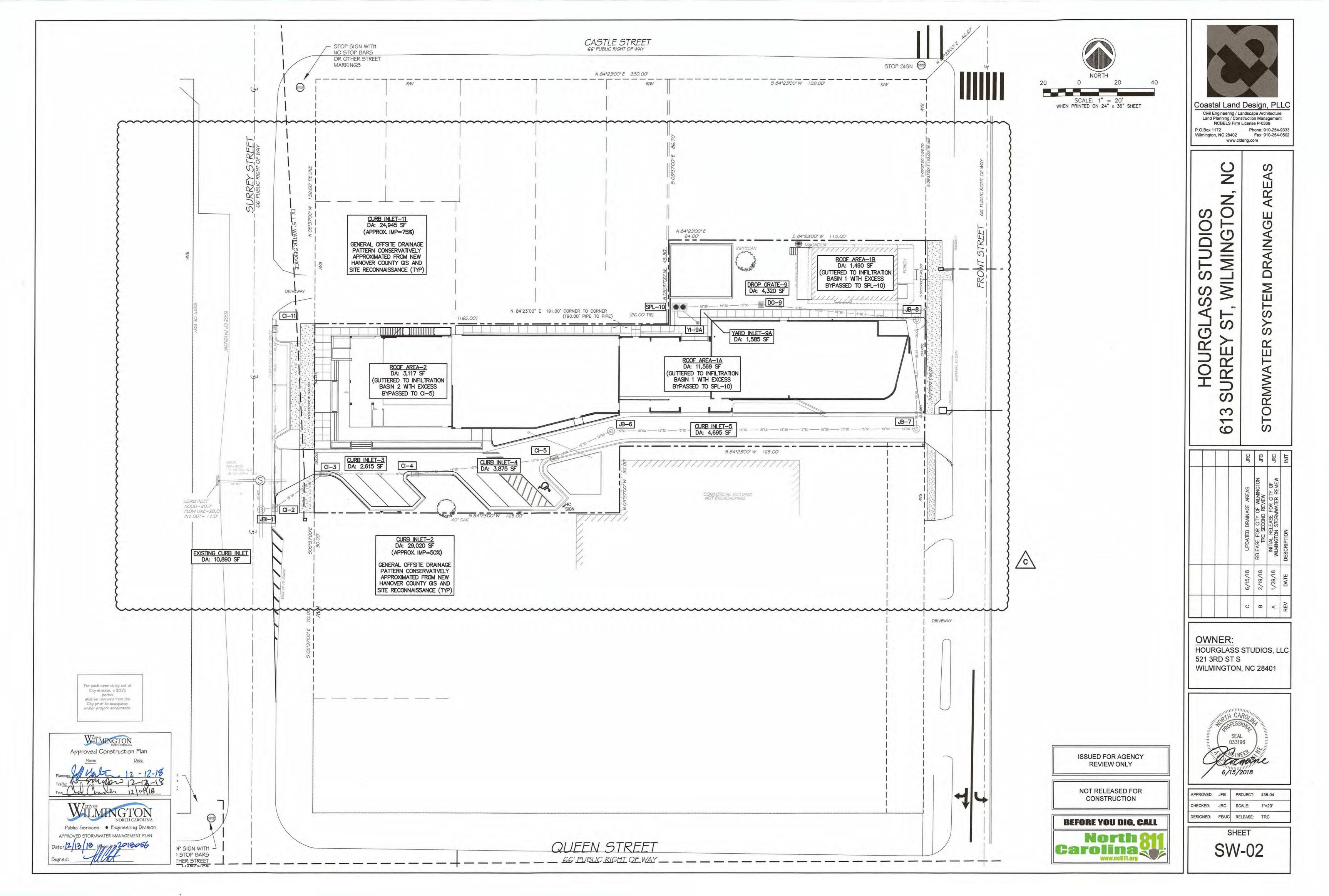
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

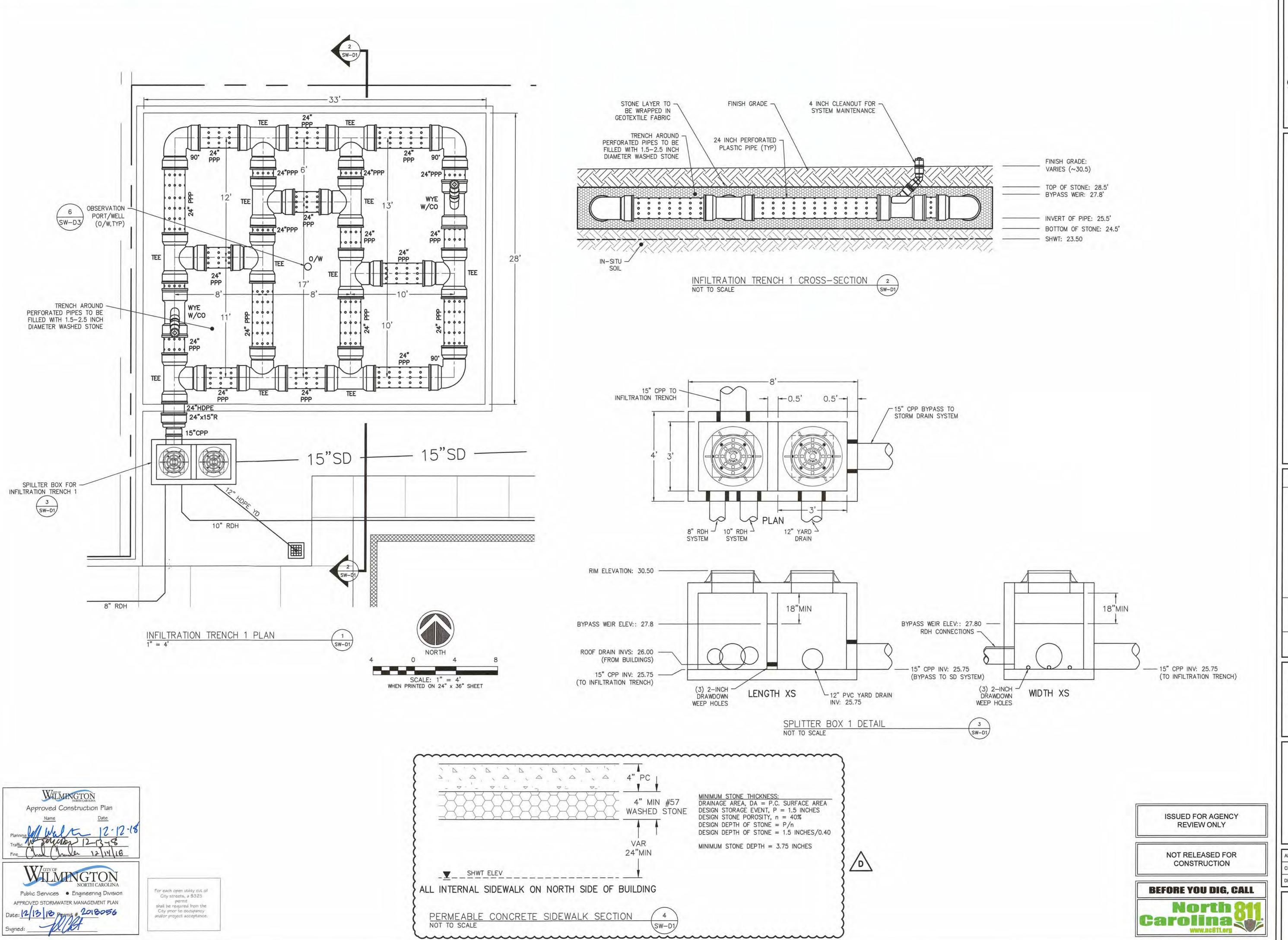


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BEFORE YOU DIG, CALL	1
North 911	
Carolina	





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WILMINGTON URRE 3 9

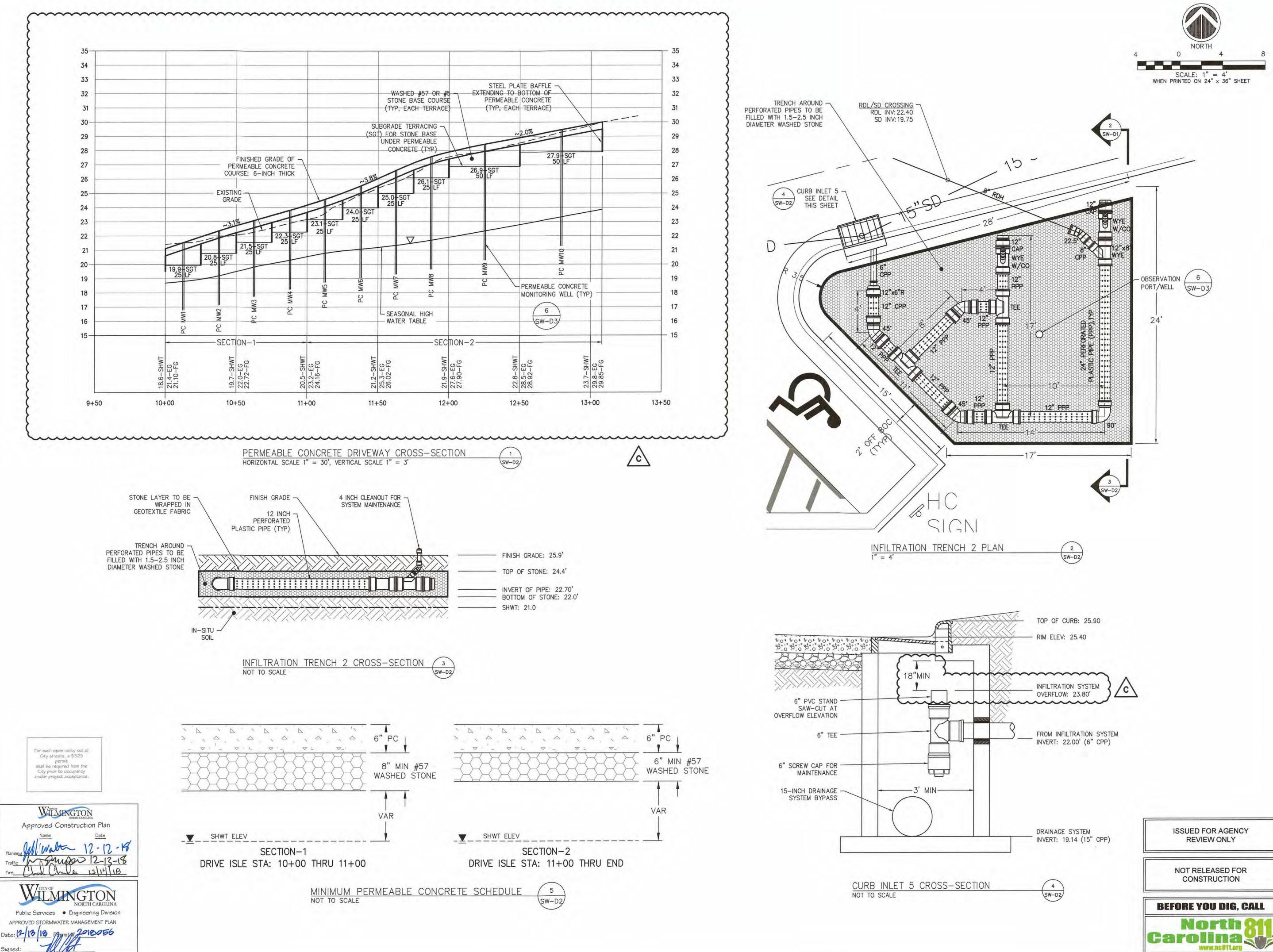
JRC	JRC	EF.	JRC	LINI
ADDED P.C. SIDEWALK DETAIL	REVISED TRENCH SHAPE AND ADDED BOX WEIR HEIGHT	RELEASE FOR CITY OF WILMINGTON TRC SECOND REVIEW	INITIAL RELEASE FOR CITY OF WILMINGTON STORMWATER REVIEW	DESCRIPTION
7/19/18	81/1/9	2/19/18	1/29/18	DATE
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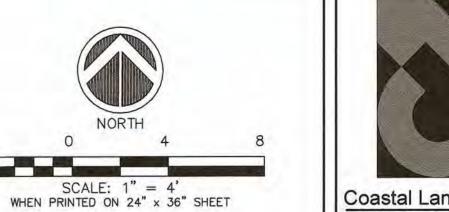
OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED:	JFB	PROJECT:	435-04
CHECKED:	JRC	SCALE:	AS NOTED
DESIGNED:	FB/JC	RELEASE:	TRC

SHEET SW-D1





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WILMINGTON URRE

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9

28	ER.	JRC	IN
ADDED MONITORING WELLS AND ADDED BOX WEIR HEIGHT	RELEASE FOR CITY OF WLMINGTON TRC SECOND REVIEW	INITIAL RELEASE FOR CITY OF WILMINGTON STORMWATER REVIEW	DESCRIPTION
81/1/9	2/19/18	1/29/18	DATE
O	В	A	REV

OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401

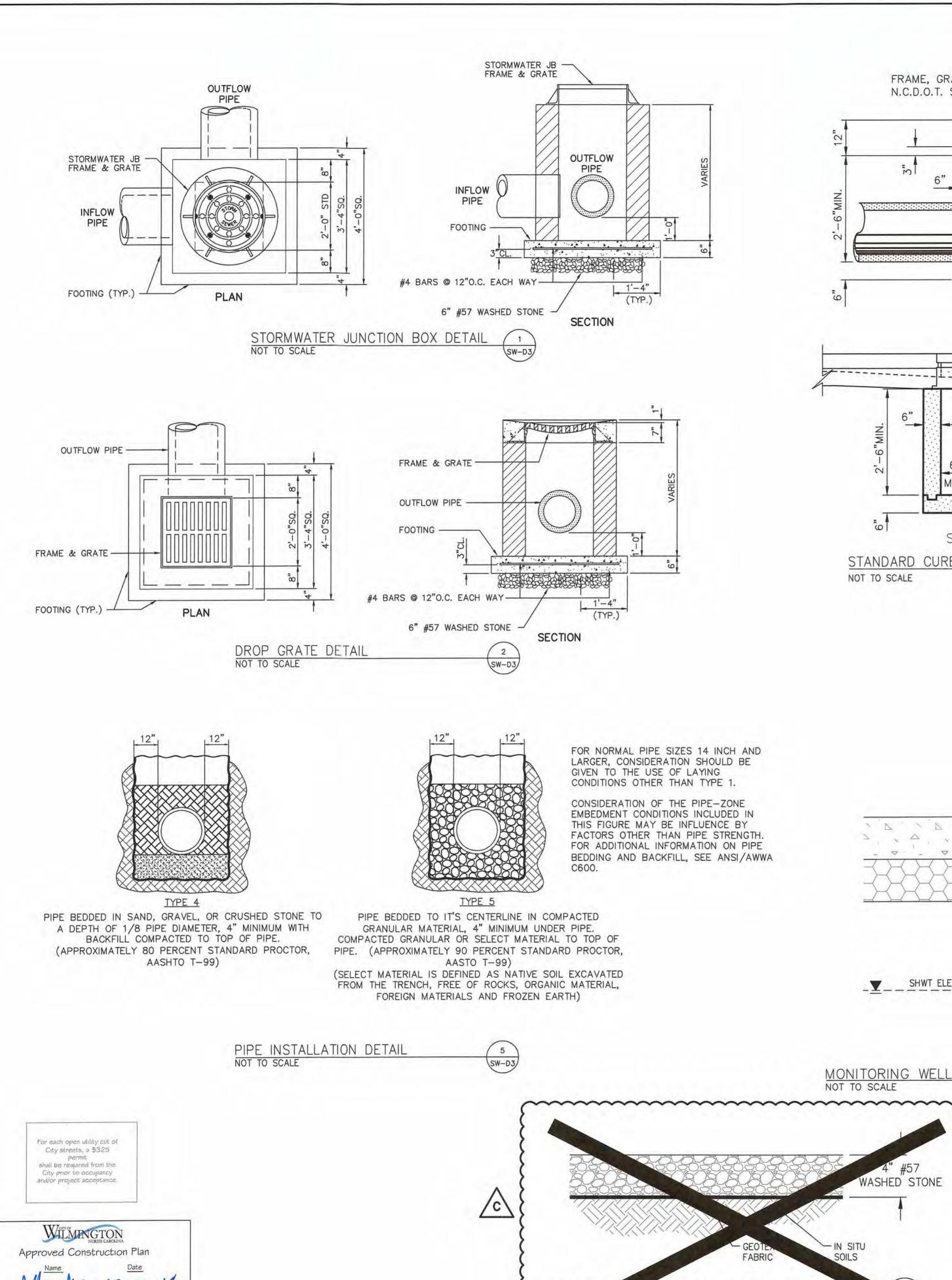


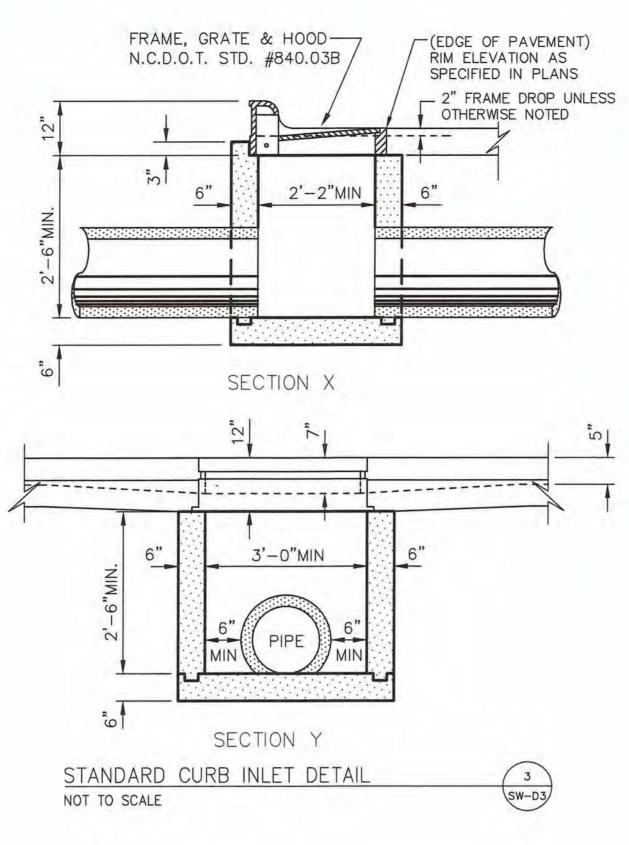
APPROVED:	JFB	PROJECT:	435-04
CHECKED:	JRC	SCALE:	AS NOTED
DESIGNED:	FB/JC	RELEASE:	TRC

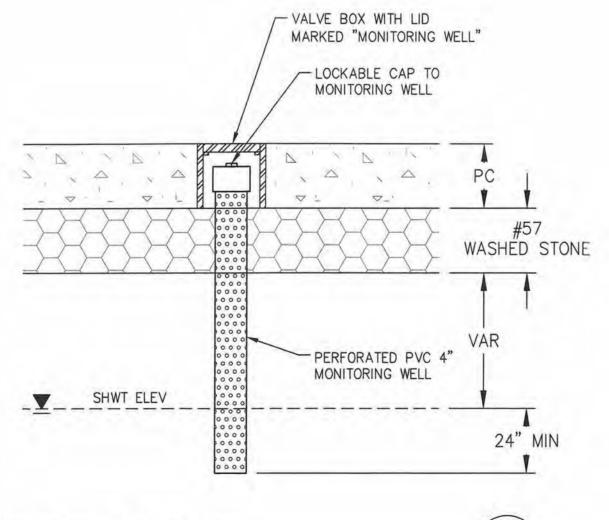
REVIEW ONLY

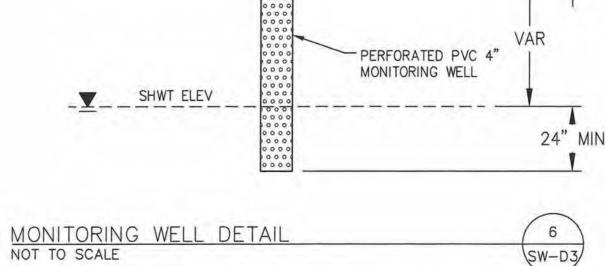
CONSTRUCTION

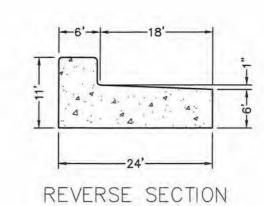
SW-D2

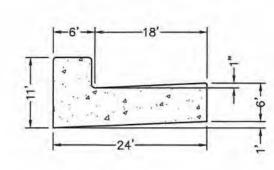






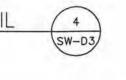


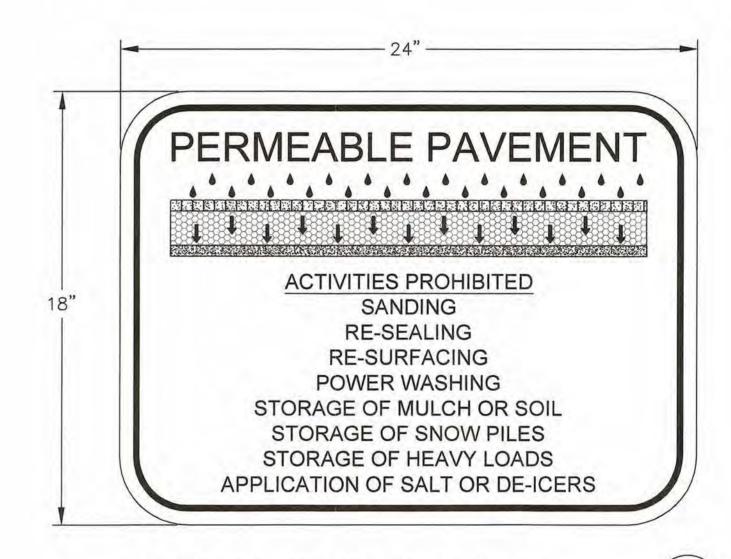




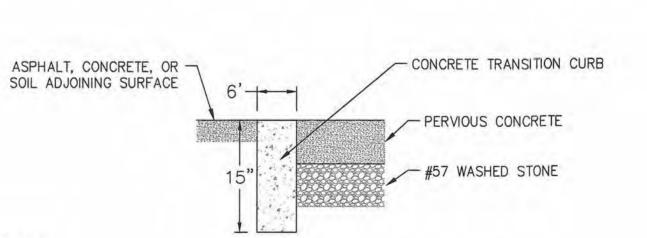
STANDARD SECTION

STANDARD 24-INCH CURB AND GUTTER DETAIL NOT TO SCALE





PERMEABLE PAVEMENT SIGN DETAIL NOT TO SCALE



NOTES:

- 1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
- 2. 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING
- 3. CONCRETE TO BE 3,000 PSI MINIMUM

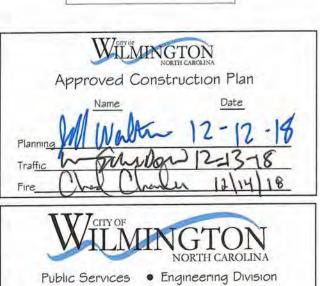
TRANSITION CURB DETAIL NOT TO SCALE



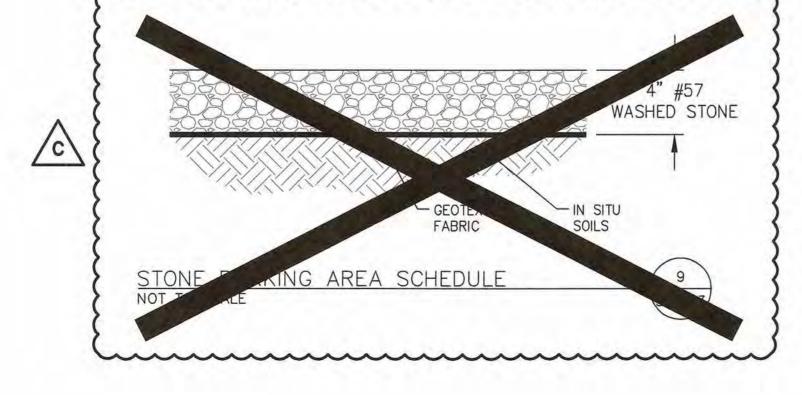
ASPHALT TO PERVIOUS CONCRETE

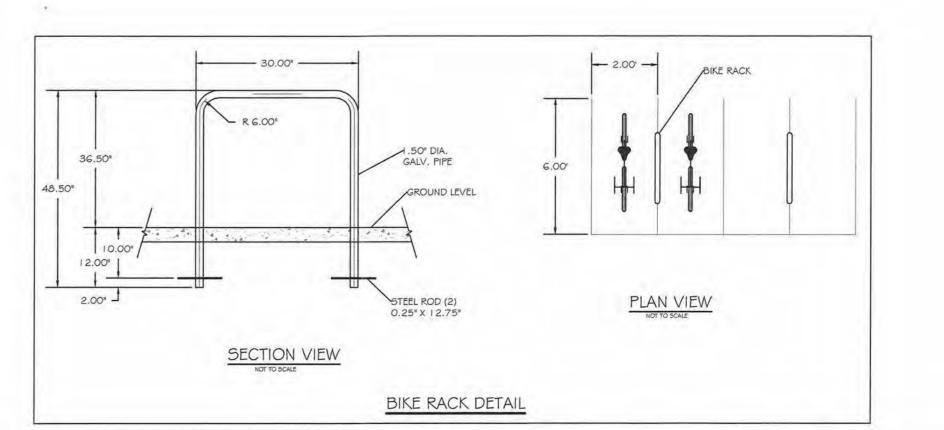


SW-D3



APPROVED STORMWATER MANAGEMENT PLAN

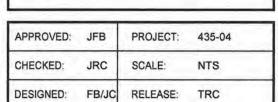




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> WILMINGTON URRE

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JRC	配	JRC	TINI
REMOVED GRAVEL PARKING AREA	RELEASE FOR CITY OF WILMINGTON TRC SECOND REVIEW	INITIAL RELEASE FOR CITY OF WILMINGTON STORMWATER REVIEW	DESCRIPTION
6/15/18	2/19/18	1/29/18	DATE
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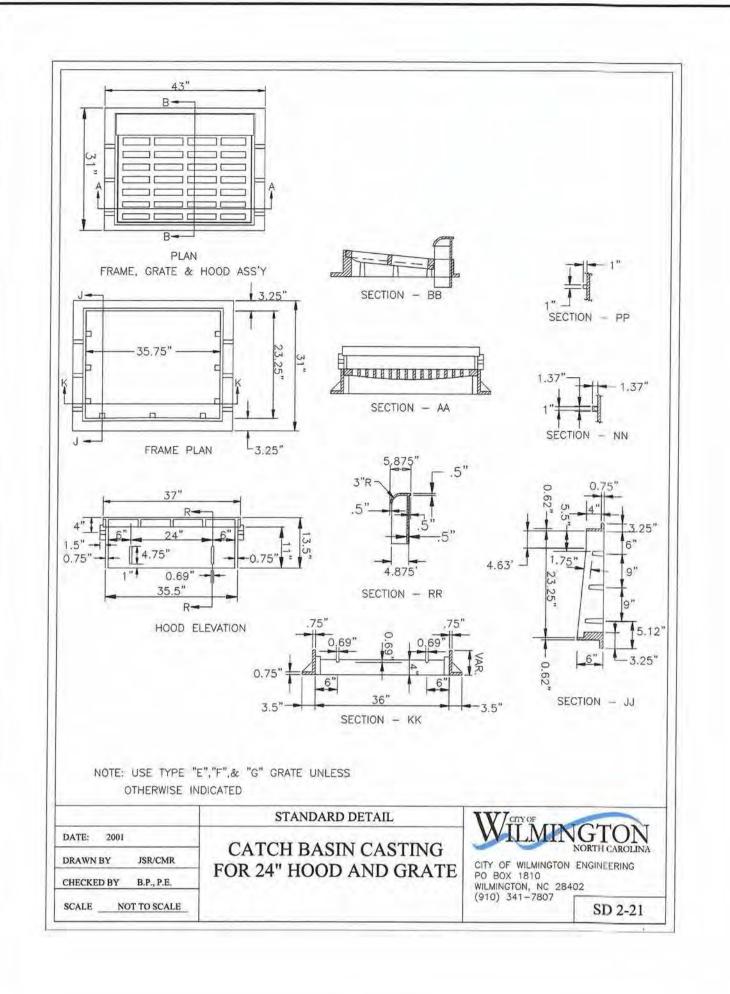
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OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401





THERMOPLASTIC ARROWS MAY BE REQUIRED -

*SEE ENLARGEMENT BELOW RIGHT
STANDARD ONE-WAY DRIVEWAY PAIR (no curb on street)

- THERMOPLASTIC ARROWS MAY BE REQUIRED -

*SEE ENLARGEMENT BELOW RIGHT

WILMINGTON

SD 8-21

CITY OF WILMINGTON ENGINEERING

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

STANDARD ONE-WAY DRIVEWAY PAIR (curb on street)

STANDARD DETAIL

STANDARD ONE-WAY

DRIVEWAY

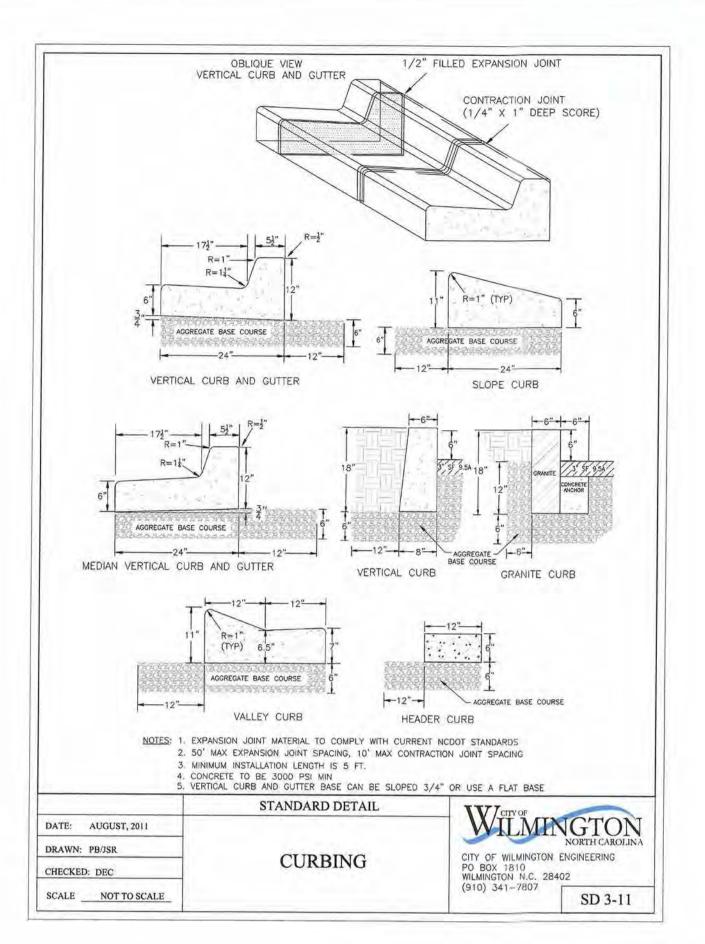
DATE: 2003

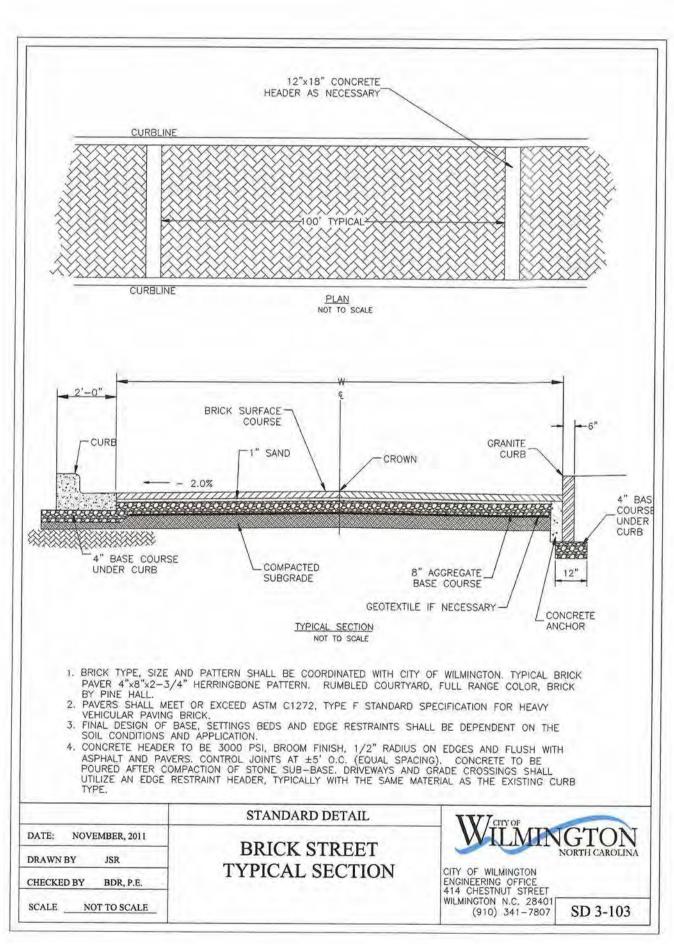
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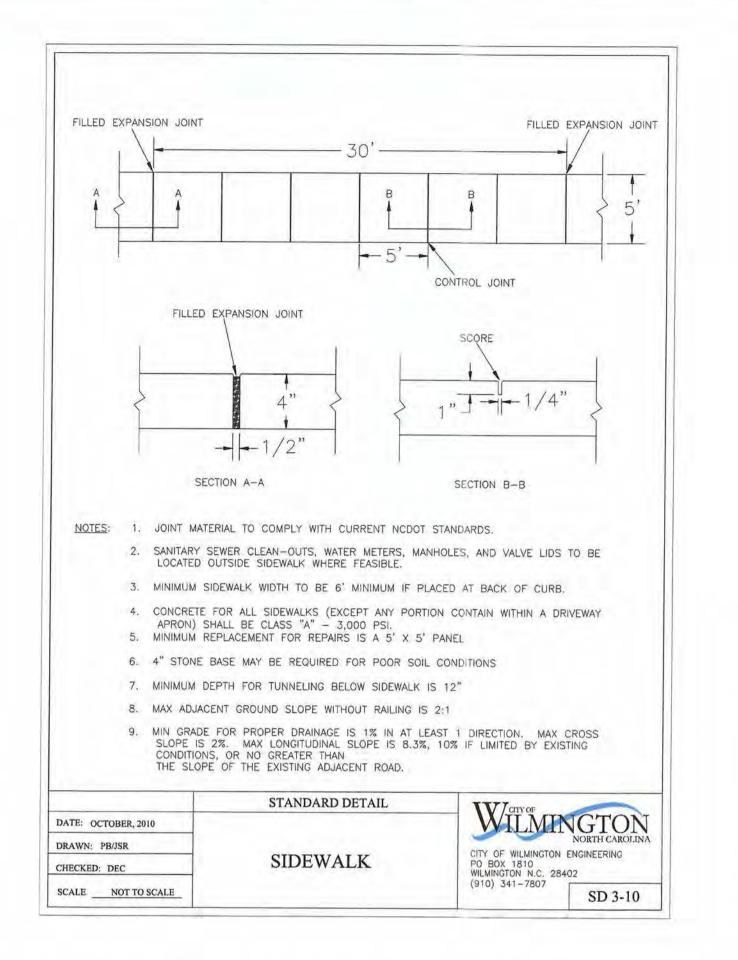
CHECKED BY JRF

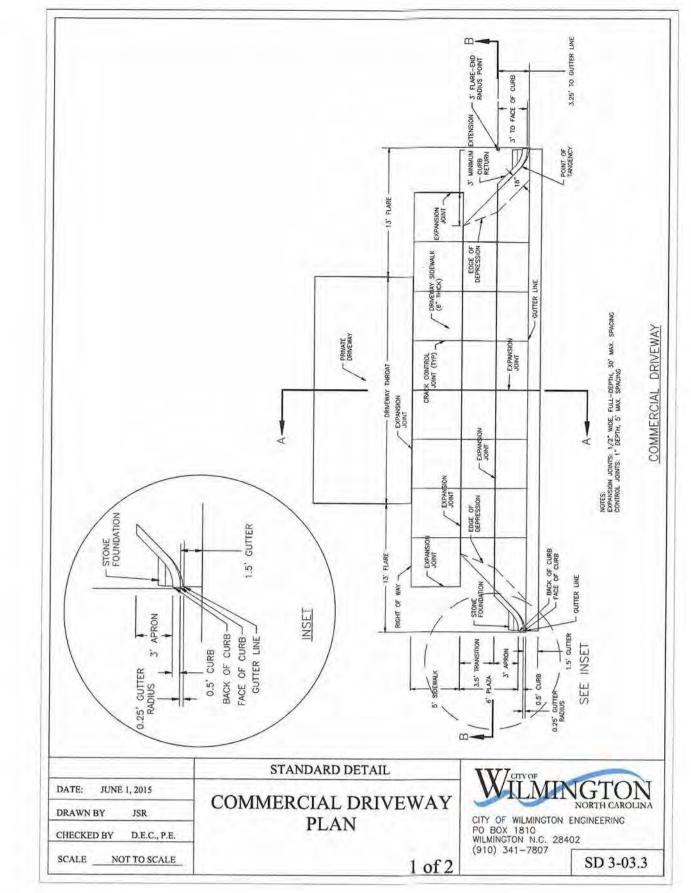
SCALE NOT TO SCALE

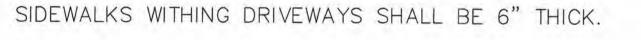
STANDARD DETAIL SD 8-05

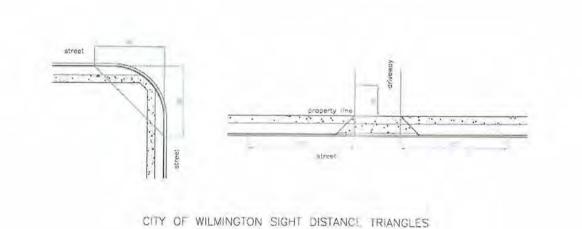




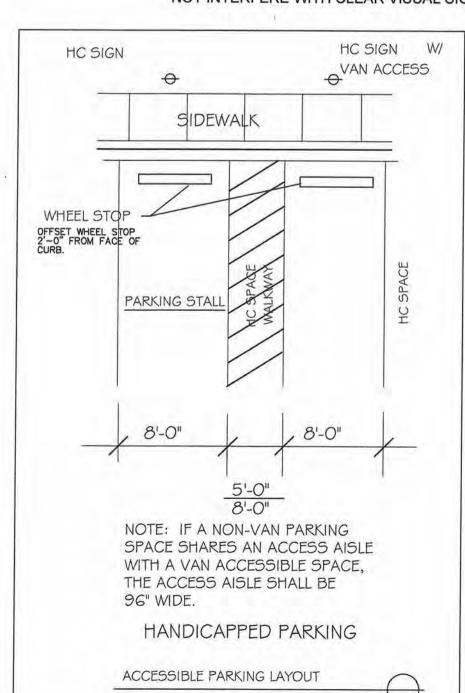


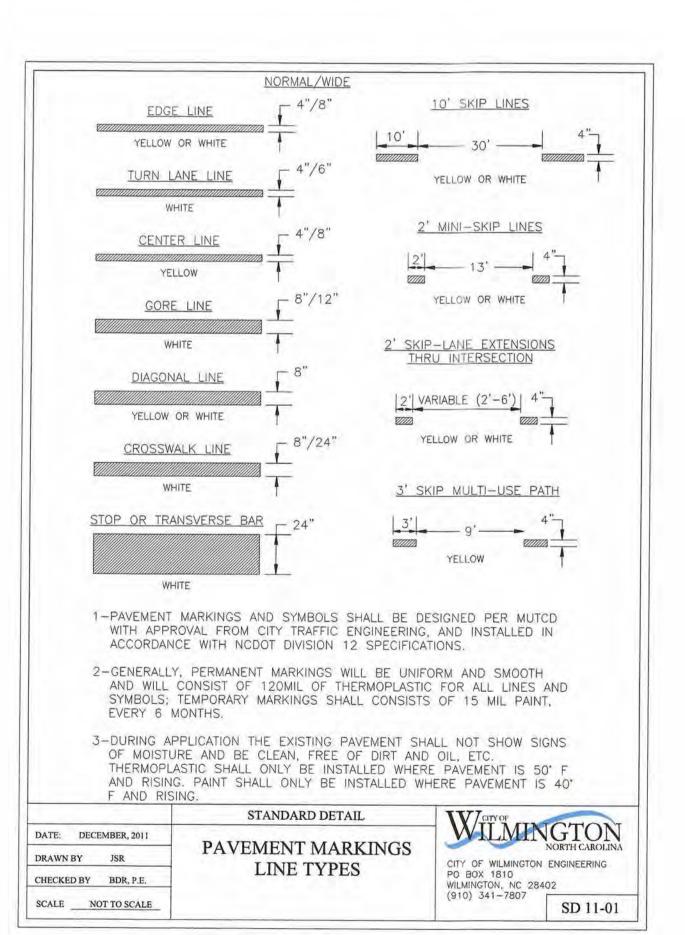


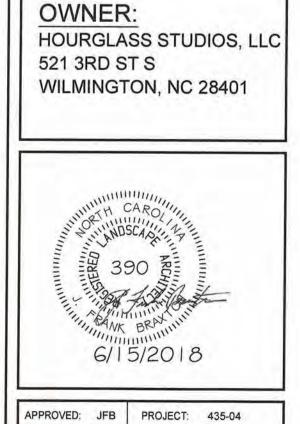




ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30"-10"







APPROVED: JFB PROJECT: 435-04

CHECKED: JRC SCALE: NTS

DESIGNED: FB/JC RELEASE: TRC

SHEET SD-01

NOT RELEASED FOR CONSTRUCTION

BEFORE YOU DIG, CALL



Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 1213 18 Parmy # 2018066

ISSUED FOR AGENCY

REVIEW ONLY

Approved Construction Plan

Name

Date

Planning | 12 - 12 + 12 |

Traffic | 12 - 13 + 18 |

Fire Challer | 12 | 14 | 18

For each open utility cut of

City streets, a \$325

shall be required from the City prior to occupancy

and/or project acceptance.



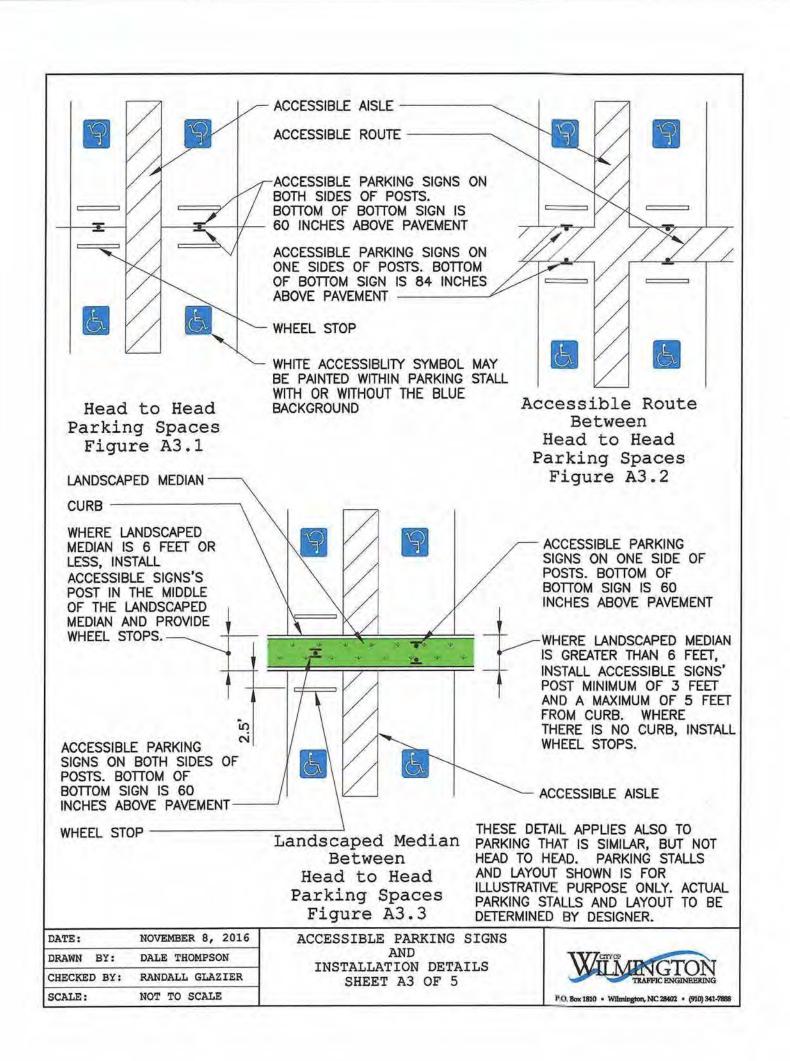
Phone: 910mington, NC 28402 Fax: 910www.cldeng.com

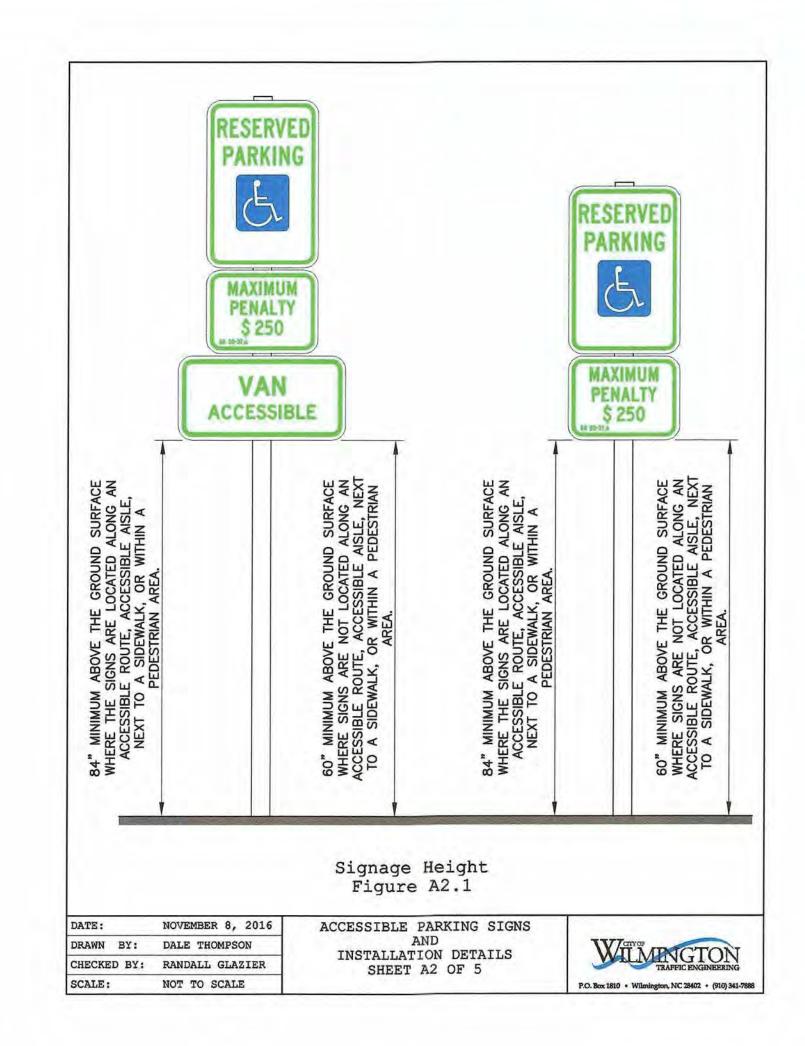
SURREY ST, WILMINGTON, NANDARD CONSTRUCTION DETAILS

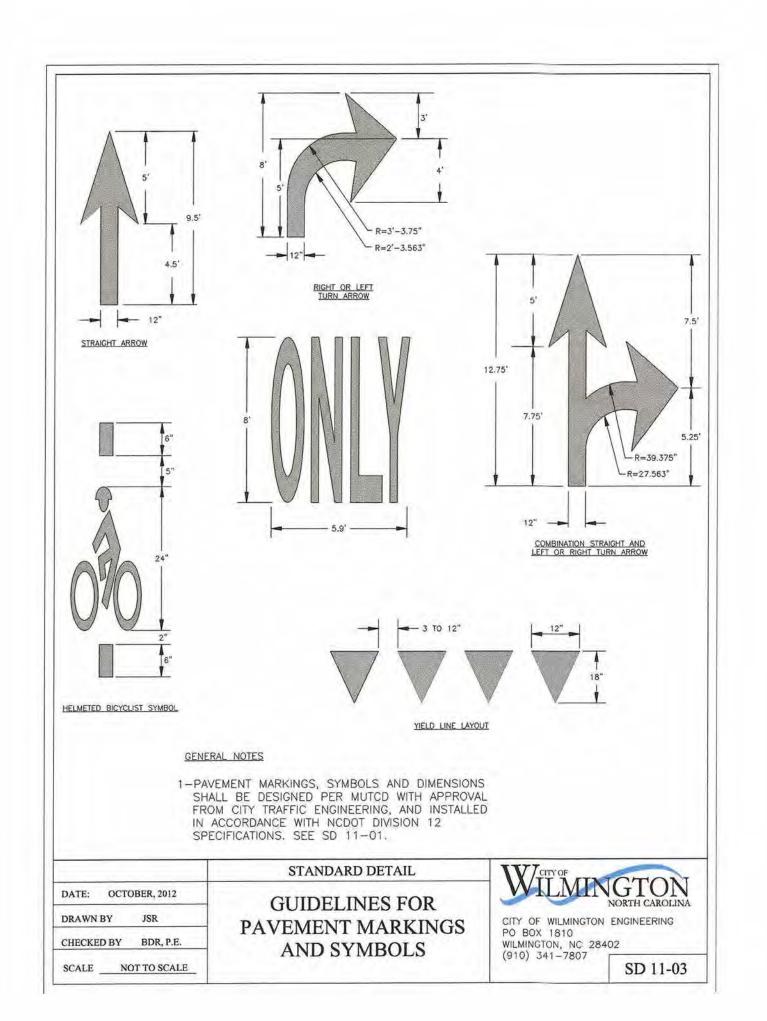
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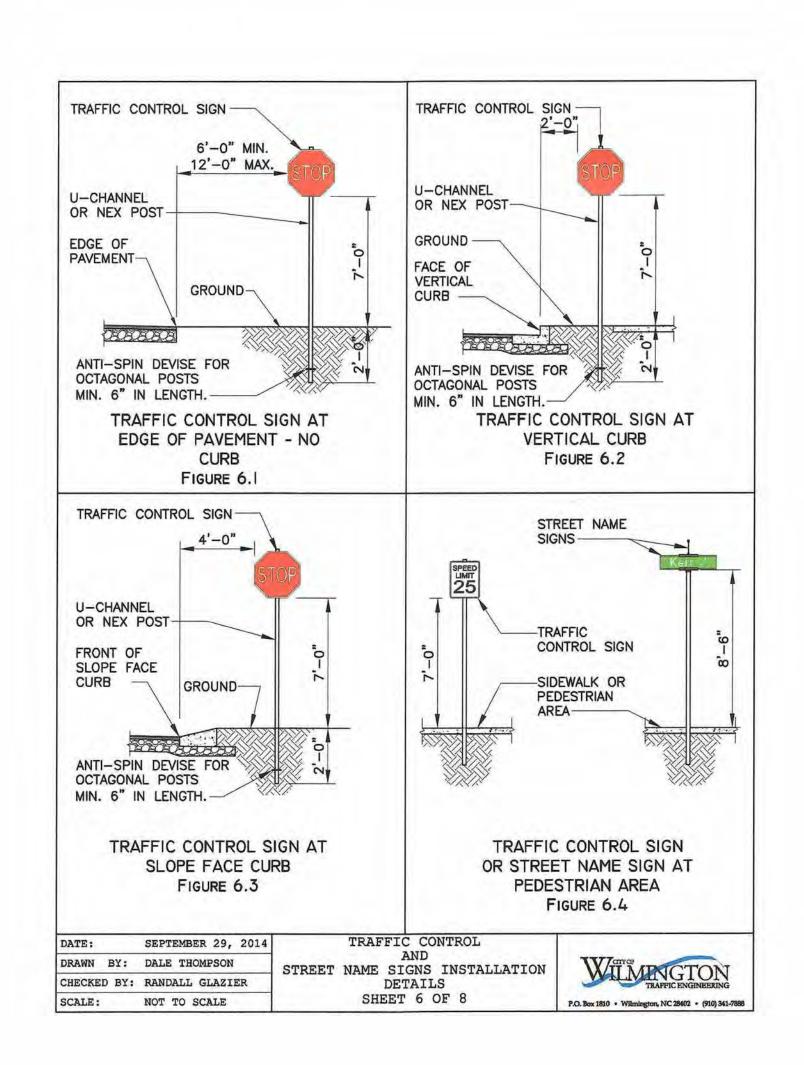
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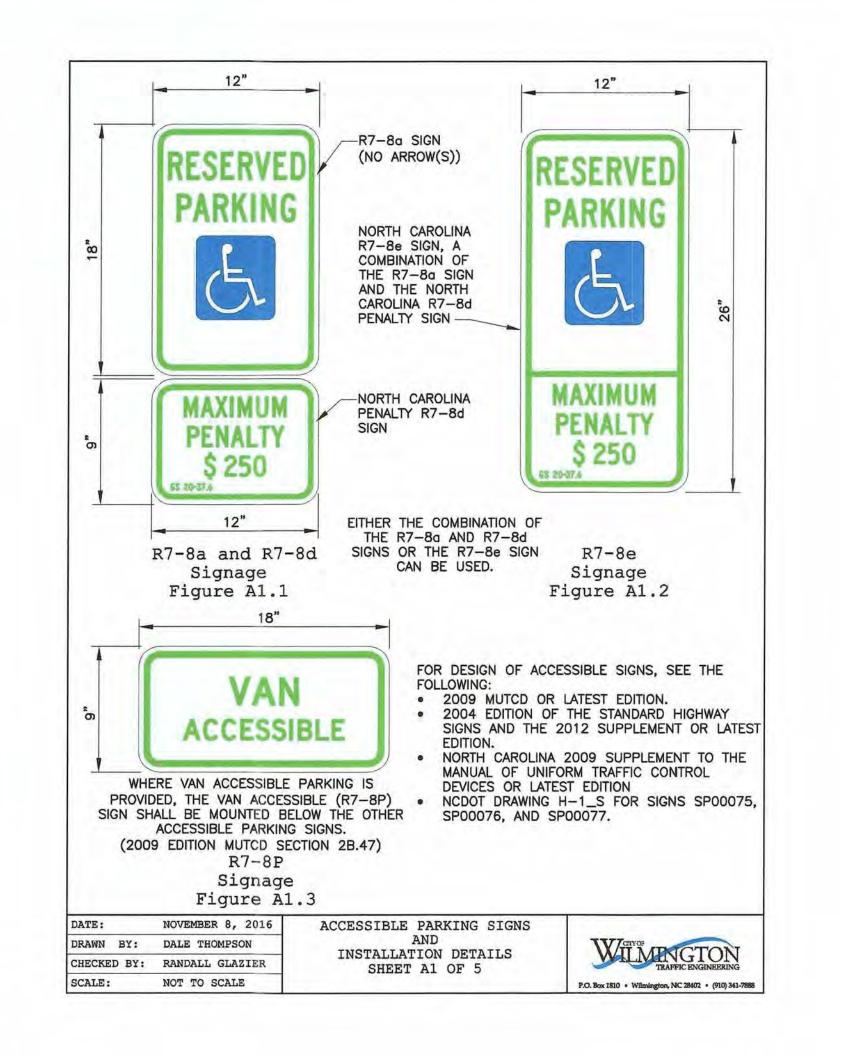
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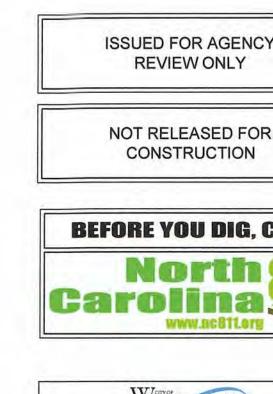


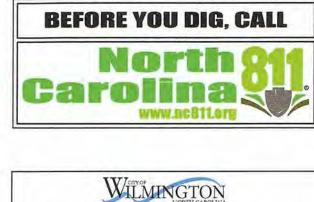


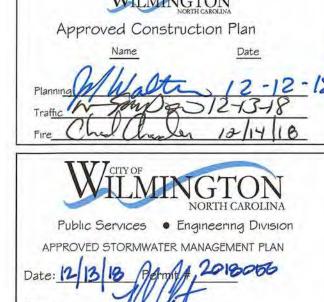












For each open utility cut of City streets, a \$325 shall be required from the City prior to occupancy and/or project acceptance.



V

Coastal Land Design, PLLC

Civil Engineering / Landscape Architecture

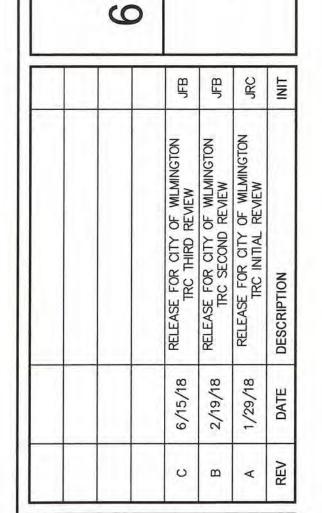
Land Planning / Construction Management

Phone: 910-254-9333

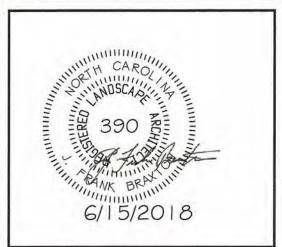
NCBELS Firm License P-0369

Wilmington, NC 28402 Fax: 910-254-0502

P.O.Box 1172

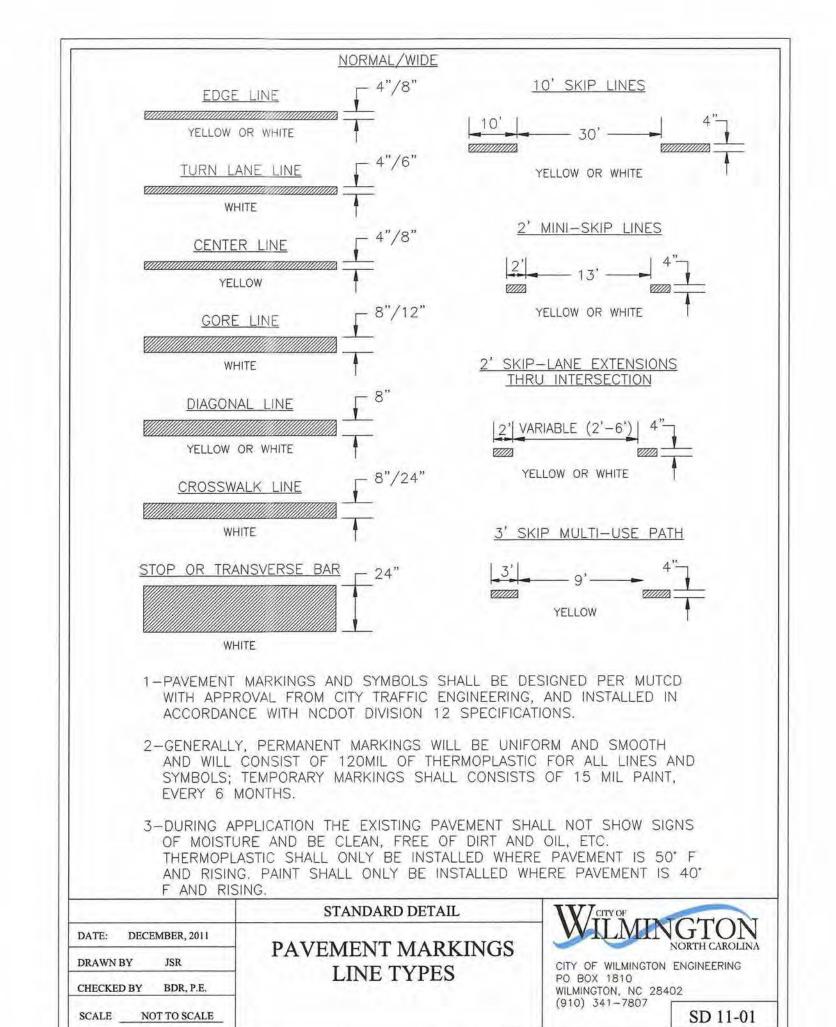


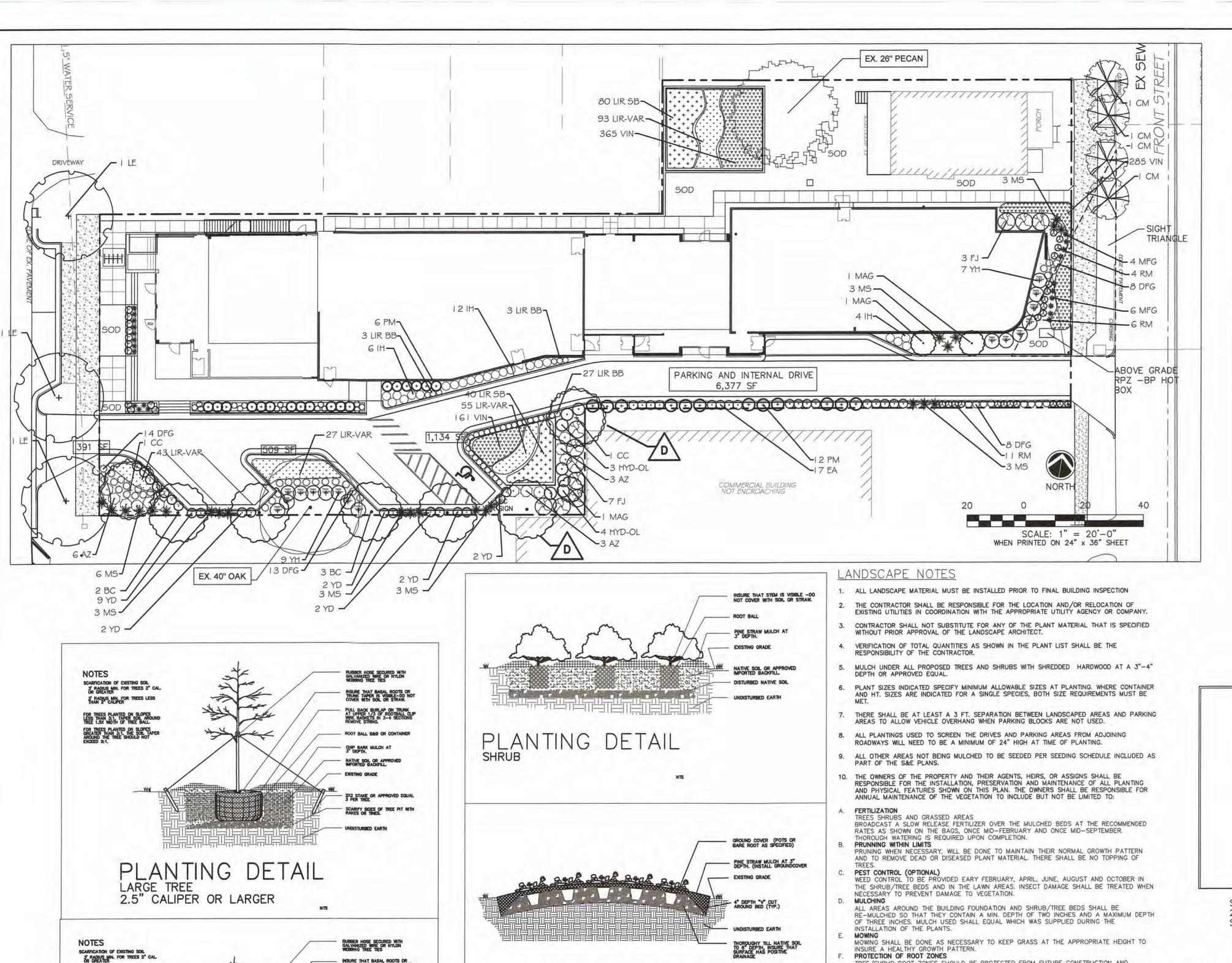
OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED:	JFB	PROJECT:	435-04	
CHECKED:	JRC	SCALE:	NTS	
DESIGNED:	FB/JC	RELEASE:	TRC	

SD-02





Proposed Significant Trees to be Removed Total DBH Tree Name % Mitigation **Trees** MAGNOLIA 100 28 28" **Total DBH of Removed Significant Trees** Total DBH x 2 Total Trees Req. = 19 = for Mitigation

PLANTING DETAIL GROUNDCOVER

INSURE THAT BASAL ROOTS OR TRUNK TAPER IS VISIBLE-DO NOT COVER WITH SOIL OR STRAW.

2X2 STAKE OR APPROVED EQUAL 2 PER TREE

PULL BACK BURLAP ON TRUNK AT UPPER 1/3 OF ROOTBALL CLIP WIRE BASKETS IN 3-4 SECTIONS REMOVE STRING.

- ROOT BALL BAS OR CONTAINER

NATIVE SOIL OR APPROVED IMPORTED BACKFILL

SCARIFY SIDES OF TREE PIT WITH RAKES OR TINES.

CHIP BARK MULCH AT

EXISTING GRADE

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and/or project acceptance.

WILMINGTON

Approved Construction Plan

3' RADIUS MIN, FOR TREES LESS THAN 2' CALIPER

FOR TREES PLANTED ON SLOPES LESS THAN 3:1, TAPER SOIL AROUND TREE 1.5X WIDTH OF TREE BALL.

FOR TREES PLANTED ON SLOPES GREATER THAN 3:1, THE SOIL TAPER AROUND THE TREE SHOULD NOT FXCFED 2:1

BALL DEPTHS SHOULD BE 1/2 THE BALL ABOVE CRADE, BUT IF DEPTHS VARY ALL TREES IN A GROUP SHOULD BE SET SO THAT THE BASE OF THE TRUNK WILL APPEAR TO BE SAME RELATIVE ELEVATION

WILMINGTON

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 12/13/18 Pegrajt #12018056

PLANTING DETAIL
SMALL TREE
1" - 2.5" CALIPER

Sec. 18-460 b. Significant trees. The total number of replacement trees shall be determined by multiplying the total DBH of the removed significant trees by two (2) times the percentage for the type of tree in Table IV and dividing by three (3).

# of Preserved Trees	Size (DBH)	Credit Given	Resulting Credit
1	40"	DBH/6	7
1	26"	DBH/7	4
Total resulting Cr Preserved Tr		=	11

- MOWNG
 MOWNG SHALL BE DONE AS NECESSARY TO KEEP GRASS AT THE APPROPRIATE HEIGHT TO INSURE A HEALTHY GROWTH PATTERN.
 PROTECTION OF ROOT ZONES
- TREE/SHRUB ROOT ZONES SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION AND EQUIPMENT AS MUCH AS POSSIBLE TO AVOID DAMAGE OR COMPACTION TO THE ROOT AREAS.

 WATERING SCHEDULE FOR IRRIGATION SYSTEM

 MAINTENANCE SHALL INCLUDE A THOROUGH INITIAL WATERING WITH WEEKLY WATERINGS THEREAFTER FOR THE FIRST 30 DAYS. WATERINGS THEREAFTER BE ON AN AS NEEDED SCHEDULE PER LOCAL CONDITIONS.
- SCHEDULE PER LOCAL CONDITIONS.

 STAKE AT WRE REMOVAL

 AT THE END OF THE FIRST YEAR ALL PLANT STAKING AND GUYING SYSTEMS SHALL BE REMOVED.

 PROTECTED TREE REGULATION

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

LANDSCAPE REQUIREMENTS

STREET TREES

18-204 UMX: Within the 1945 corporate limits, street tree plantings in below-grade planters shall be included in the public right-of-way at the rate of one (1) tree per thirty (30) feet of frontage.

FRONT STREET: | | | LF-|5' (DRIVEWAYS)/30LF= 3 TREES REQUIRED TREES = 4 PROVIDED TREES = 4

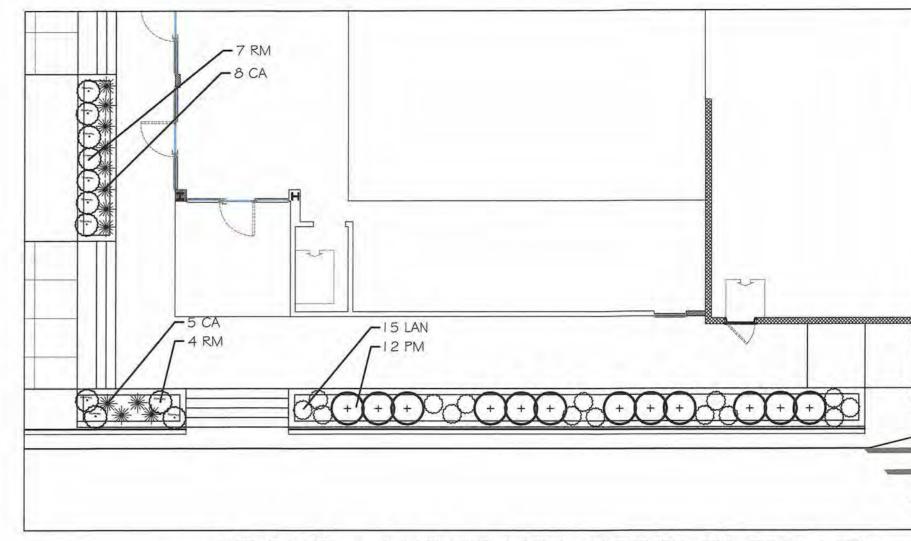
SURREY STREET: 102 LF - 14' DRIVEWAY/30 LF = 3 TREE REQUIRED TREES = 3 PROVIDED TREES = 3

STREETYARD/ BUFFERS

18-204 UMX: All development within the UMX District may be exempted from required buffers and streetyard requirements, as approved by the technical review committee.

MITIGATION TREES REQUIRED: 19 PRESERVED CREDIT: 11 PROVIDED: 5

PAYMENT IN LIEU FOR 3 TREES SHALL BE PAID TO THE CITY TREE IMPROVEMENT FUND

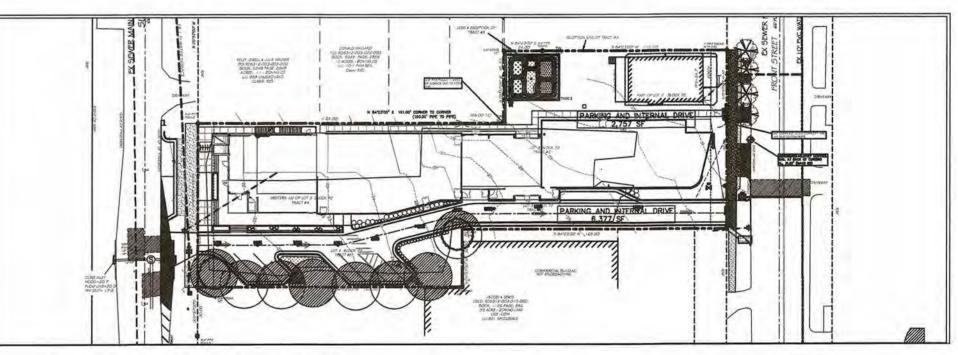


FRONT LANDSCAPE BEDS BLOW UP SCALE: 1"=10'

NOT RELEASED FOR

ISSUED FOR AGENCY **REVIEW ONLY**

BEFORE YOU DIG, CALL www.nc811.org



SOUTH PARKING AND DRIVE = 6,377 SF 20% SHADE AREA REQUIRED = 1,275 SF SHADE AREA PROVIDED = 3,896 SF

SHADING PLAN

PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	CAL.	HT.	REMARKS	QUAN.	SYMBO
TREES						
TAXODIUM DISTICHUM 'MICKELSON' SHAWNEE BRAVE	'MICKELSON' BALD CYPRESS	2.5"		B¢B	5	BC
ULMUS PARVIFOLIA 'DRAKE'	DRAKE LACEBARK ELM	2.5"		B¢B	3	LE
CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2.5"		B¢B	2	CC
LAGERSTROEMIA INDICA 'ARAPAHO'	ARAPAHO CRAPE MYRTLE		8-10'	TREE FORM SINGLE STEM	3	СМ
MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	25 GAL	8-10'		3	MAG
SHRUBS	c Comment					
ROSMARINUS OFFICINALIS	ROSEMARY			3 GAL.	32	RM
NASSELLA TENUISSIMA	MEXICAN FEATHER GRASS			I GAL.	10	MFG
MISCANTHUS SINENSIS 'GRACILLIMUS'	MISCANTHUS ADAGIO		3' MIN.	3 GAL.	24	M5
AZALEA X 'HINO-CRIMSON'	HINO CRIMSON AZALEA		3' MIN.	3 GAL.	19	AZ
CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FOERSTER'S FEATHER REED GRASS			3 GAL.	13	CA
THUJA OCCIDENTALIS 'EMERALD'	EMERALD ARBORVITAE			3 GAL.	17	EA
FATSIA JAPONICA	FATSIA			3 GAL.	10	FJ
RAPHIOLEPIS UMBELLATA	YEDDO HAWTHORN			3 GAL.	16	YH
RAPHIOLEPIS INDICA	INDIAN HAWTHORN 'SNOW			3 GAL.	22	IH
PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS			3 GAL.	43	DFG
ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY		3' MIN.	3 GAL.	12	YD
PODOCARPUS MACROPHYLLUS VAR. MAKI	PODOCARPUS MAKI			3 GAL.	18	PM
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA			3 GAL.	7	HYD-OL
GROUNDCOVER / PERENNIAL						
LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LIRIOPE		QT.	Fully Rooted 18" OC	278	LIR-VAR
LIRIOPE MUSCARI 'SUPER BLUE'	'SUPER BLUE' LIRIOPE		QT.	Fully Rooted 24" OC	120	LIR-SB
LIRIOPE MUSCARI 'BIG BLUE'	'BIG BLUE' LIRIOPE			I GAL	33	LIR-BB
LANTANA SELLOWIANA 'MONMA'	TRAILING WHITE LANTANA		QT.	Fully Rooted 24" OC	15	LAN
VINCA MINOR	VINCA		QT.	12" OC	811	VIN
SOD SELECTION	ZENITH OR CROWN ZOYSIA					SOD



Coastal Land Design, PLLC Civil Engineering / Landscape Architecture Land Planning / Construction Management

NCBELS Firm License P-0369 Phone: 910-254-9333 P.O.Box 1172 Wilmington, NC 28402 Fax: 910-254-0502 www.cldeng.com

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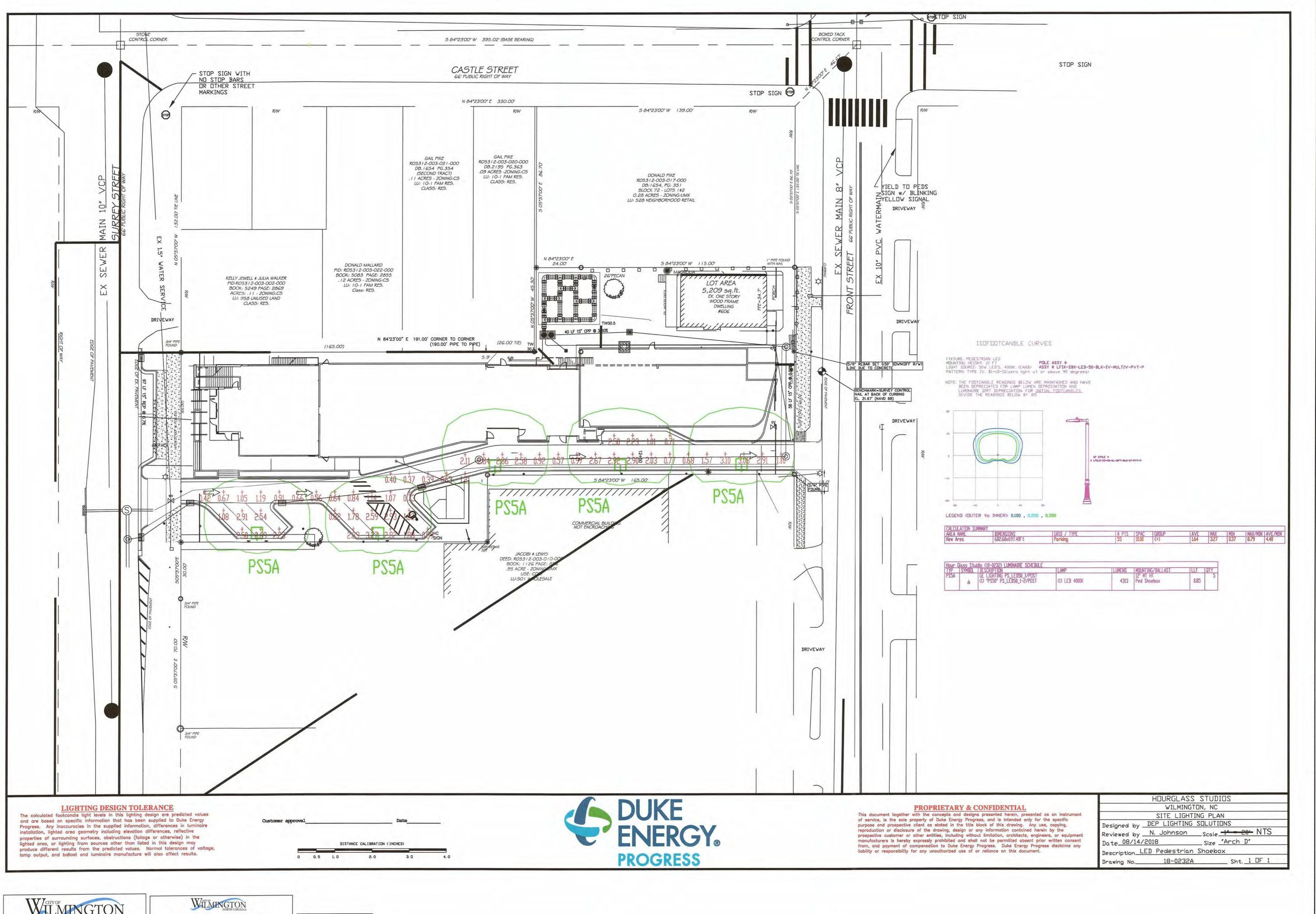
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OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401



APPROVED:	JFB	PROJECT:	435-04
CHECKED:	JFB	SCALE:	AS NOTED
DESIGNED:	FB/NA	RELEASE:	TRC

SHEET LA-01





Phone: 910-254-9333 P.O.Box 1172 Wilmington, NC 28402 Fax: 910-254-0502 www.cldeng.com

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S _R C	FB.	JRC	TINI
RELEASE FOR CITY OF WILMINGTON TRC THIRD REVIEW AND STORMWATER	RELEASE FOR CITY OF WILMINGTON TRC SECOND REVIEW	INITIAL RELEASE FOR CITY OF WILMINGTON STORMWATER REVIEW	DESCRIPTION
6/15/18	2/19/18	1/29/18	DATE
O	В	A	REV

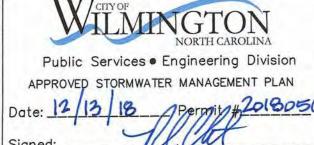
OWNER: HOURGLASS STUDIOS, LLC 521 3RD ST S WILMINGTON, NC 28401

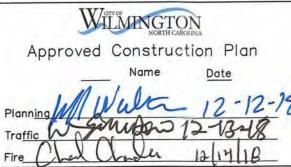
APPROVED: JFB PROJECT: 435-04 CHECKED: JFB SCALE: AS NOTED DESIGNED: FB/NA RELEASE: TRC

> SHEET L-01

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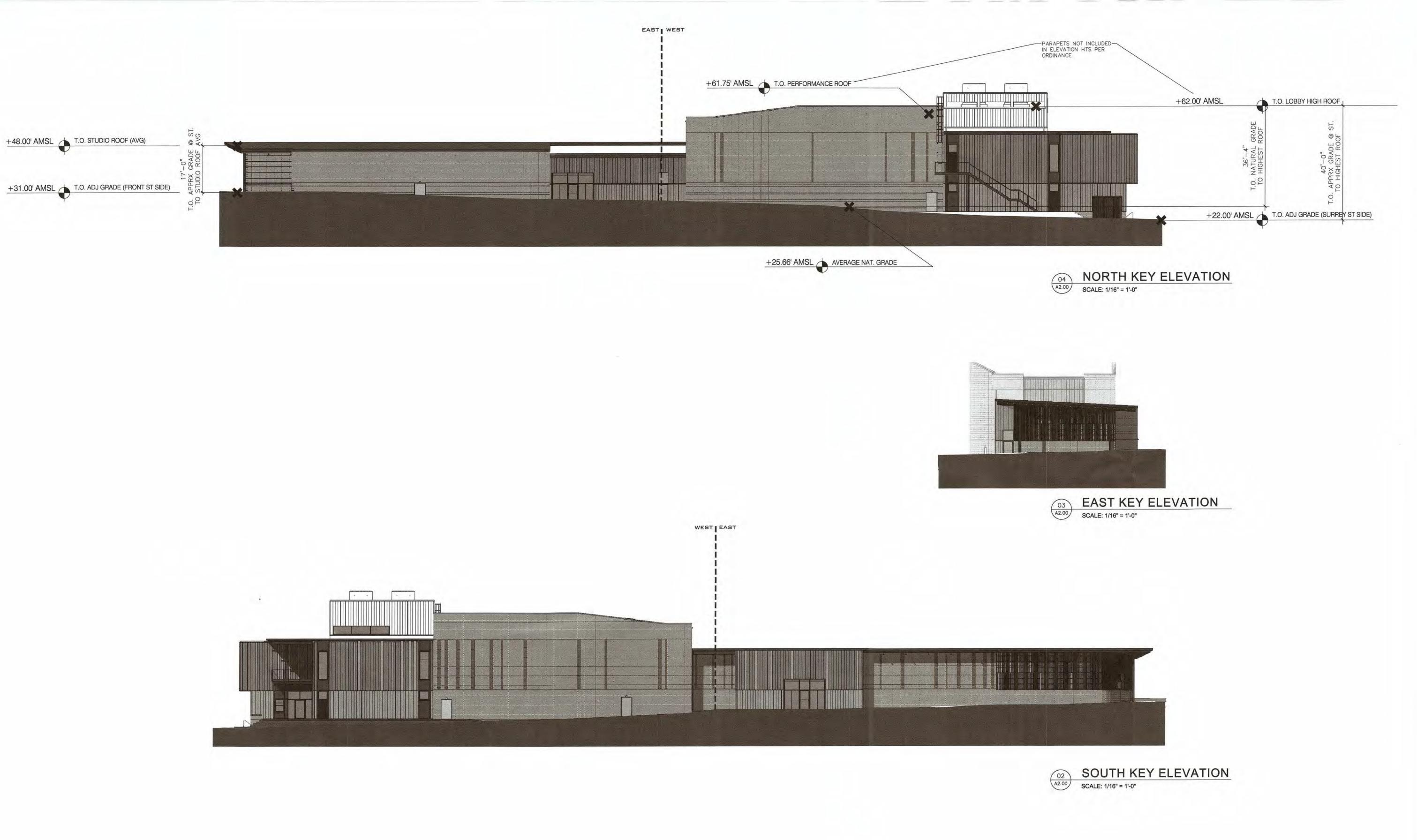
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For each open utility cut of City streets, a \$325 permit shall be required from City prior to occupancy and/or project acceptance.

ISSUED FOR AGENCY **REVIEW ONLY**





Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 12 13 10 Parmin # 2018056

Signed:

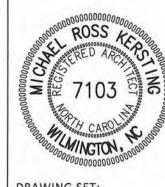
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WEST KEY ELEVATION

SCALE: 1/16" = 1'-0"



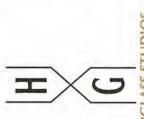


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RELEASE DATE: 09.10.18
SHEET REVISED:

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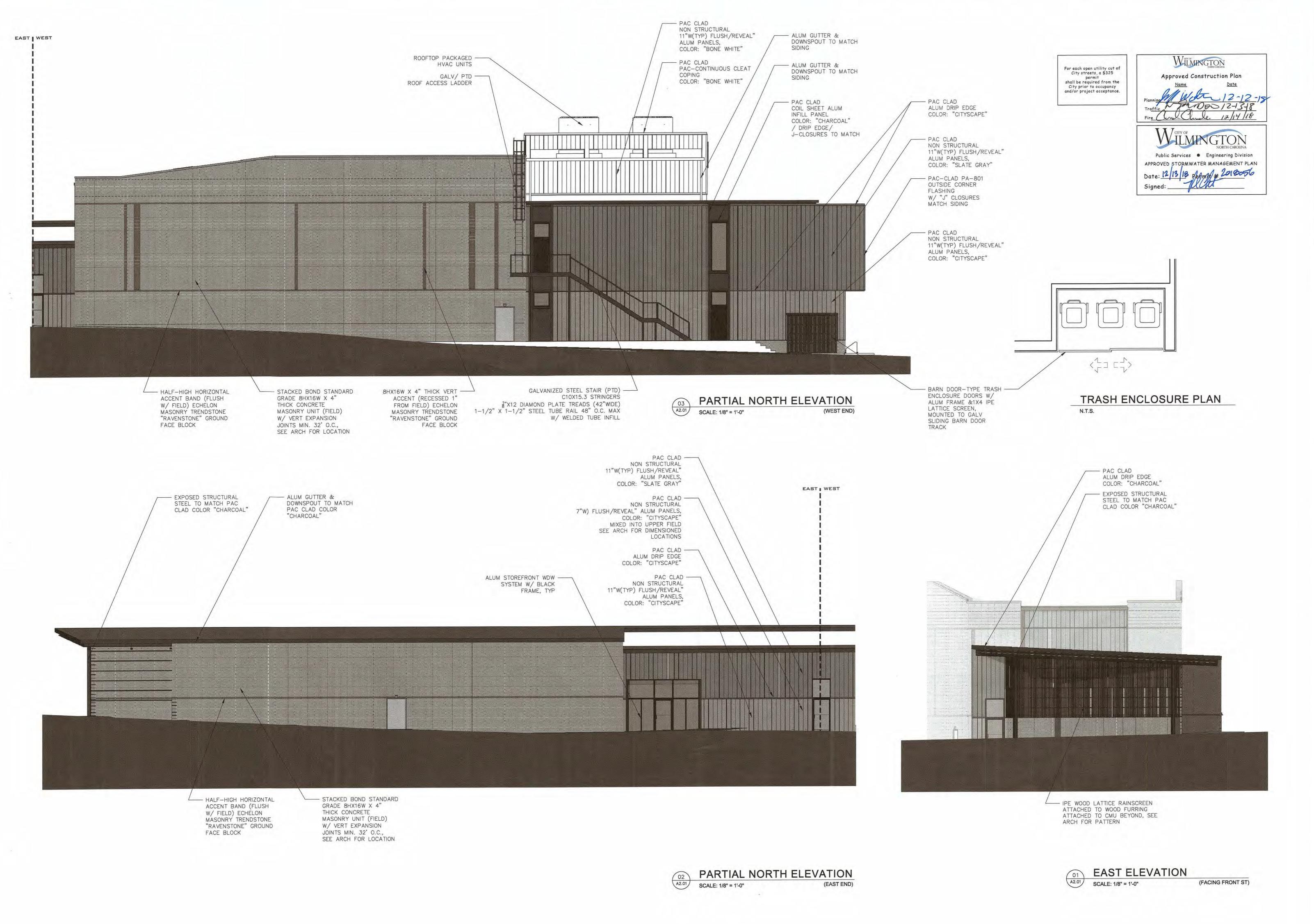


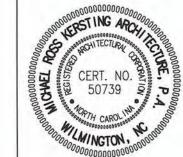




KEY ELEVS

A2.00







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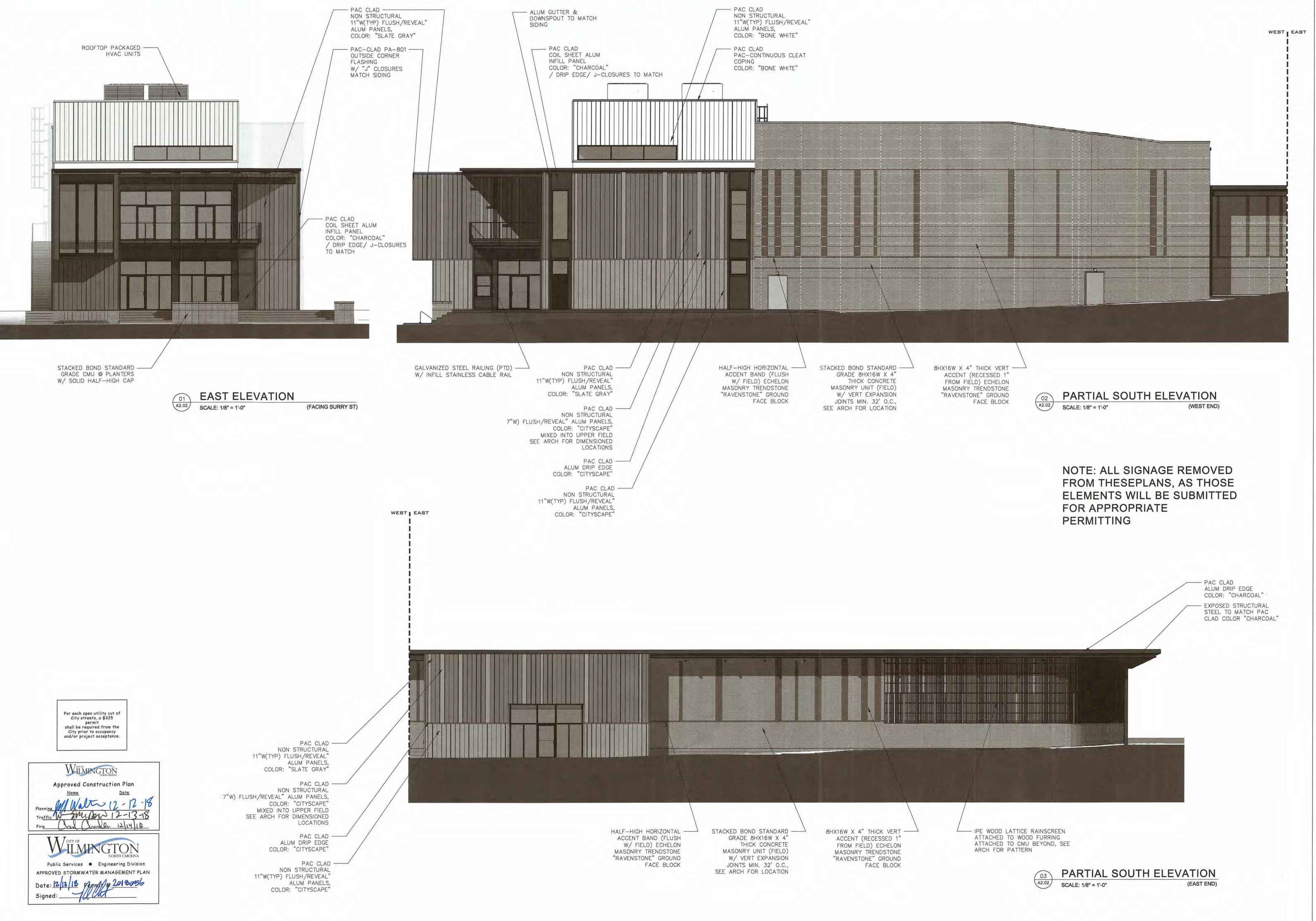
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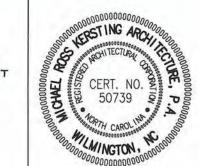
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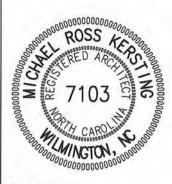
PARKERGROUP STRUCTURES OF DISTINCTION • • •



DTL **ELEVS** A2.01







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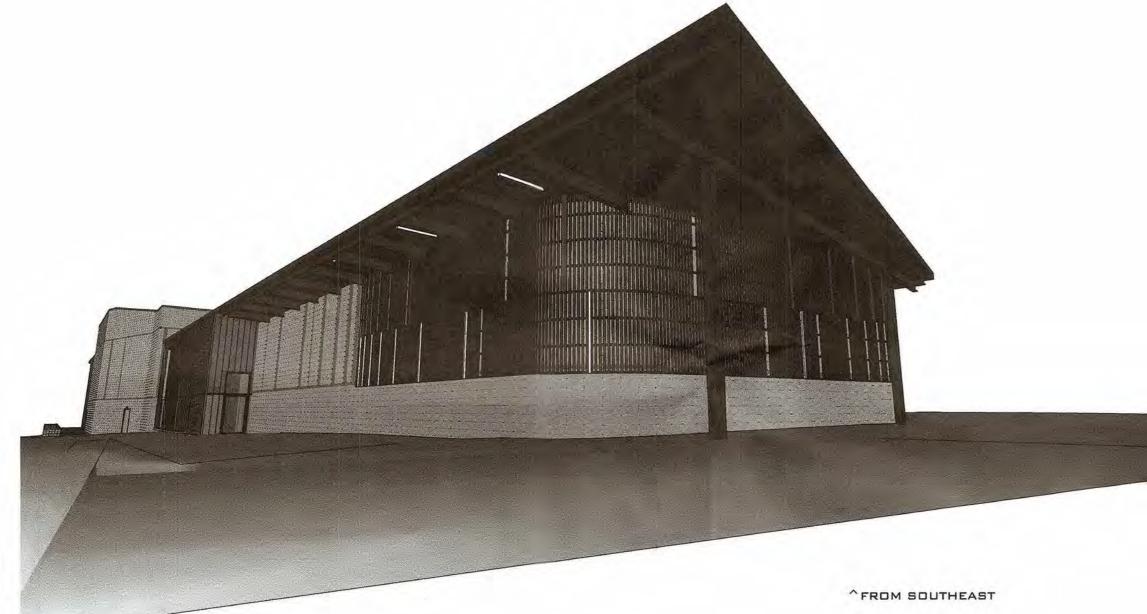
PARKERGROUP STRUCTURES OF DISTINCTION • •

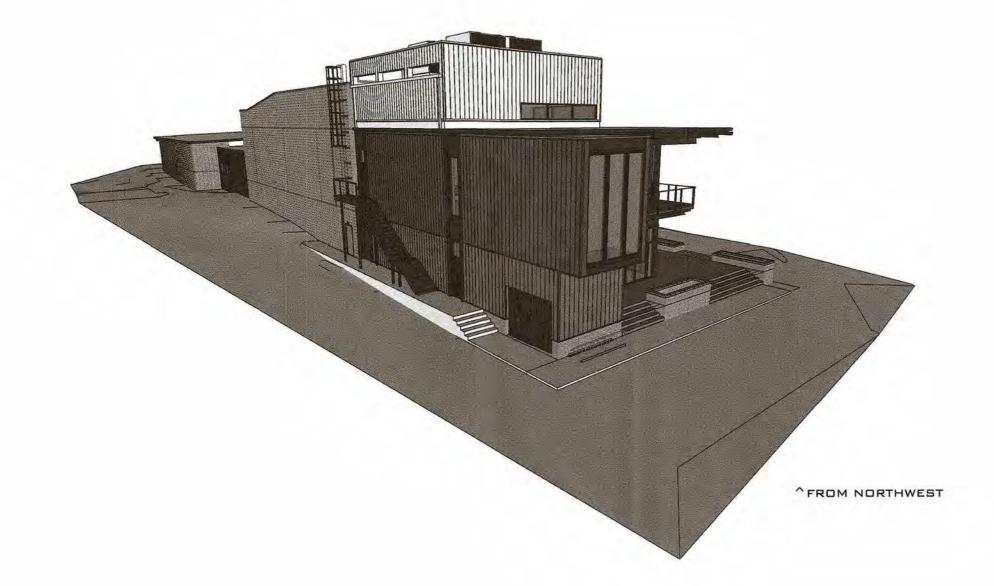


DTL **ELEVS**

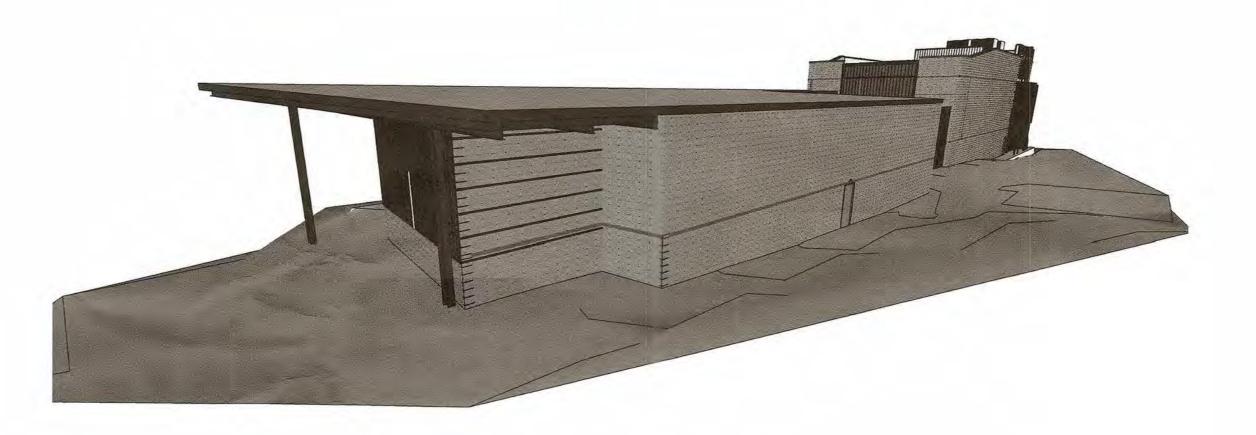
A2.02









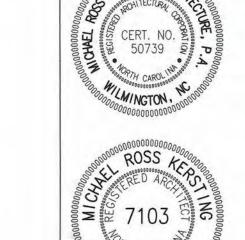


FROM NORTHEAST





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RELEASE DATE: 09.10.18 SHEET REVISED:





3D REF

A2.03