COLLEGE ACRES APARTMENTS COLLEGE ACRES DRIVE WILMINGTON, NORTH CAROLINA CITY OF WILMINGTON T.R.C. DESIGN DOCUMENTS

NOTICE REQUIRED

ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.

CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION.

CONTRACTORS SHALL CONTACT OVERHEAD ELECTRIC PROVIDER TO COMPLY WITH FEDERAL OSHA 1910.333 MINIMUM APPROACH DISTANCE TO ENERGIZED POWERLINES AND OSH 29 CFR 1926.1407-1411 MUST BE FOLLOWED.

CONTRACTOR SHALL CONTACT AT&T PRIOR TO ANY DEMOLITION TO ALLOW FOR AT&T TO DISCONNECT COMMUNICATIONS CABLES COMING INTO THE SITE.

CONTACT THESE UTILITIES

CITY OF WILMINGTON PLANNING & DEVELOPMENT ATTN: PAT O'MAHONEY, PLANNER PH: 910-341-4661

ATTN: ZONING INSPECTIONS PH: 910-254-0900

PIEDMONT NATURAL GAS (DUKE ENERGY) ATTN: CATHY PLEASANT PH: 910-251-2827

EMERGENCY DIAL 911 POLICE - FIRE - RESCUE ATTN: CITY OF WILMINGTON FIRE & LIFE SAFETY PH: 910-343-0696

CAPE FEAR PUBLIC UTILITY AUTHORITY (WATER & SEWER) ENGINEERING/INSPECTIONS PH: 910-332-6560

OPERATIONS/MAINTENANCE PH: 910-322-6550

DUKE ENERGY DISTRIBUTION CONSTRUCTION SERVICE DEP CSC PH: 1-800-452-2777

TRANSMISSION AGENT BILL WILDER PH: 910-772-4903

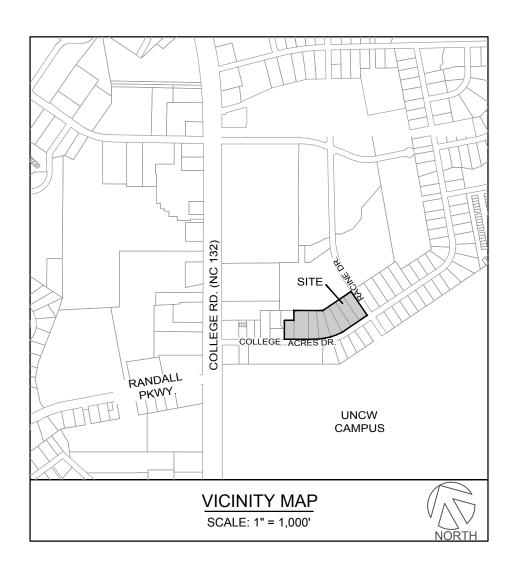
AT&T/BELL SOUTH ATTN: STEVE DAYVAULT (BUILDING ENGINEERING) PH: 910-341-0741

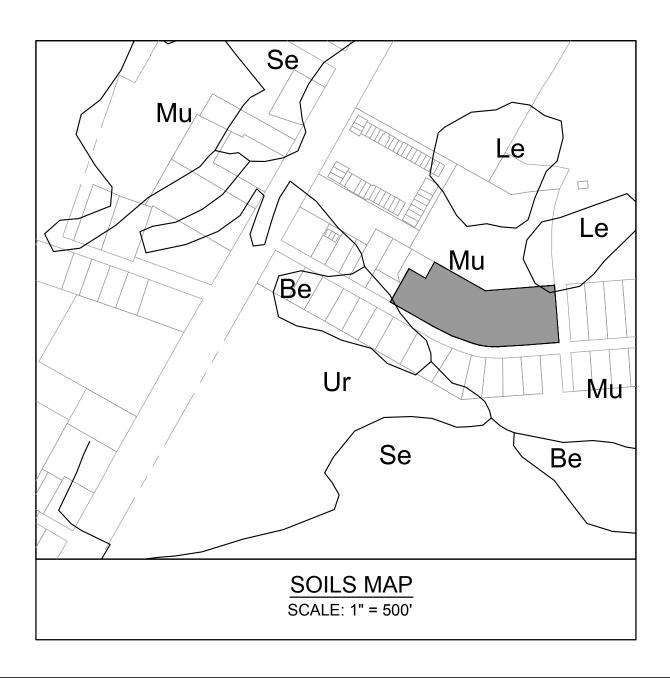
ATTN: JAMES BATSON, ENGINEERING PH: 910-341-1621

SPECTRUM GENERAL PH: 800-892-4357



OCTOBER 29, 2020





COLLEGE ACRES APARTMENTS

	PROJECT # 19443.PE	Е ОСТОВ	BER 29, 2020
	SHEET NUMBER	SHEET TITLE	
	C-0.0	COVER SHEET	
	C-1.0-1.1	GENERAL NOTES	
	C-2.0	OVERALL SITE PLAN	
	C-2.1	SITE INVENTORY & DEMOLIT	ION
	C-2.2	TREE REMOVAL PLAN	
	C-3.0	EROSION CONTROL PLAN	1
	C-4.0	GRADING & DRAINAGE PLA	N
	C-5.0	UTILITY PLAN	
	C-6.0-6.3	CIVIL DETAILS	
	<u> </u>	CFPUA UTILITY DETAILS	
	L-1.0	LANDSCAPE PLAN	
	L-1.1	TRUCK TURNING & OPEN SPAC	EPLAN
FRUCTION			
Ţ	PRO	DJECT DEVELOPER	
Ţ	Colle	ege Acres Development, LLC	
D(5217 Market Street	
Å		Wilmington, NC 28403	
		Attn: David DeSpain	
FOR CONS	DES	IGN CONSULTANTS	
\bigcup	PARA	MOUNTE ENGINEERING, INC.	
		EMA DR., WILMINGTON NC 28403	
[O]	CIVIL FI	(910) 791-6707 NGINEER: J. BRANCH SMITH, PE	
Щ	LANDSCAPE AR	CHITECT: ALLISON ENGEBRETSON, RLA	
Q	SUF	RVEYOR: CHRIS GAGNE, PLS	
SE	Apr	proved Construction Plan	
Y		Name Date	
	Planning		
E			
R	Fire		
)T		7	For each open utility cut of
\sum_{n}		ILMINGTON	City streets, a \$325 permit shall be required from the
		NORTH CAROLINA	City prior to occupancy and/or project acceptance.
7		Services • Engineering Division	
5		STORMWATER MANAGEMENT PLAN	
SIC		Permit #	
E.	Signed:		
IAL DESIGN - NOT RELEASED	PREPARED BY:		
ΥΓ			
\mathbf{N}	PARAMO	JUNTE	
	ENGINEER 122 Cinama Duiva Wilminata		
	122 Cinema Drive Wilmingto (910) 791-6707 (O) (9		
	NC License t	, , , ,	

NC License #: C-2846

- COORDINATION NOTES: THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND WITH THE CITY OF WILMINGTON, NEW HANOVER COUNTY, CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA), AND THE STATE OF NORTH CAROLINA.
- THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT. IN ADDITION, THE CONTRACTOR IS TO COMPUTE THE LAYOUT OF THE ENTIRE SITE PLAN IN ADVANCE OF BEGINNING ANY WORK ASSOCIATED WITH THE SUBJECT PLANS. CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR TO PERFORM SITE IMPROVEMENT STAKEOUT(S).
- ANYTIME WORK IS PERFORMED OFF-SITE OR WITHIN AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK, AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS BY OTHERS FOR ALL BUILDING DIMENSIONS AND DETAILS.

<u>GENERAL NOTES</u>

- BOUNDARY AND EXISTING CONDITIONS SURVEY COMPLETED BY PARAMOUNTE ENGINEERING, INC. AND TREE INVENTORY AND TOPOGRAPHIC SURVEY COMPLETED BY PARAMOUNTE ENGINEERING, INC. THE SURVEY SHALL BE FIELD VERIFIED BY CONTRACTOR AND ANY DISCREPANCIES REPORTED TO THE OWNER AND ENGINEER.
- REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF DITCHING OPERATIONS BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES. IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF TRENCHING OPERATIONS SO AS TO ELIMINATE OR MINIMIZE DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE 9. ALL AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE FOR ALL COSTS RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING LOSS OF UTILITY REVENUES. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC.
- CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
- CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAGMEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE USDOT.
- ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE
- ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.
- CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 811 AND ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.
- ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION
- CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- 0. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
- 1. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
- 12. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
- 13. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES. 4. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, CURB AND GUTTERS, ROADSIDE DRAINAGE
- DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS
- 5. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
- 6. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR. DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW, NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE PERMISSION OF THE OWNER, THE CITY OF WILMINGTON, NEW HANOVER COUNTY, OR CFPUA. RESPECTIVELY.
- CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COST HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE OTHER OBSTRUCTIONS OR FROM DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. CONTACT NORTH CAROLINA ONE CALL" TOLL FREE 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NONSUBSCRIBING UTILITIES
- 3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
- 9. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 20. ALL LOT STRIPING AND DIRECTIONAL ARROWS TO BE REFLECTIVE MARKINGS AND SHALL CONFORM TO MUTCD. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BF WHITE
- 1. LANDSCAPE PLANTINGS AT ENTRANCE/ EXITS WILL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE NEEDS OF DRIVERS IN THE PARKING AREA AND AT ENTRANCE/EXIT LOCATIONS PER LOCAL STANDARDS.
- 22. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. THE EROSION CONTROL PLAN SHALL INCLUDE PROVISIONS FOR GROUNDCOVER OF PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEP CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY. GROUND COVER SHA ALL OTHER DISTURBED AREAS WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DI
- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIME HANDBOOK. (NO SEPARATE PAYMENT).
- 3. THE CONTRACTOR SHALL NOTIFY PLAN APPROVING AUTHORITY ONE WEEK PRIOR T PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF ACTIVITY, AND ONE WEEK PRIOR TO FINAL INSPECTION.
- 4. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO C LAND DISTURBANCE.
- 5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT S ON THE SITE AT ALL TIMES.
- 6. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDIC PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS STAC AREAS). THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROS TO THE OWNER FOR REVIEW AND TO NEW HANOVER COUNTY FOR APPROVAL. CON ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AM
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSIO MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINE REVIEWING AGENCY OR THE ENGINEER. (NO SEPARATE PAYMENT).
- 8. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURI DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL ACHIEVED.
- SEEDED AS INDICATED AND STABILIZED.
- 10. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- 11. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICAL RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- 12. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRAC STABILIZATION OR A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS D ENGINEER. (NO SEPARATE PAYMENT). NCDENR'S FINAL APPROVAL IS REQUIRED.
- 13. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONS AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED PAYMENT).
- 14. WHEN CROSSING CREEK OR DRAINAGE-WAY, THE DIVISION OF WATER QUALITY SHA PRIOR TO DISTURBING A CREEK. THE CONTRACTOR SHALL INSTALL RIP-RAP WITH F DISTURBED BANKS AND CHANNEL AND RESTORE SLOPES TO ORIGINAL CONTOURS, THAN 2:1 MAXIMUM. DISTURBED CREEK AREA SHALL BE STABILIZED IMMEDIATELY.

DEMOLITION NOTES:

- 1. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR R SERVICE CONNECTIONS WHEN NECESSARY.
- CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF 2. REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROV PERFORMED BY THE CONTRACTOR AND WILL BE CONSIDERED UNCLASSIFIED EX
- DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STE STRUCTURES; ABANDONED UTILITIES, BUILDINGS, PAVEMENTS AND ALL MATERIA STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE GEOTECHNICAL EN INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARIN AS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AN PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR A OWNER.
- ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PRO CONTRACTOR
- THE CONTRACTOR SHALL PRODUCE A PHOTOGRAPHIC RECORD (DIGITAL) OF DE COMMENCING WITH A RECORD OF THE SITE AS IT APPEARS BEFORE DEMOLITIO AFTERWARDS, A PHOTOGRAPHIC RECORD SHALL BE MAINTAINED WEEKLY DURI AND ENDING WITH A PHOTOGRAPHIC RECORD OF THE DEVELOPMENT AS IT APPE DEMOLITION. THIS RECORD SHALL BE DELIVERED TO THE OWNER.
- 7. EXISTING CURB AND GUTTER, LIGHTS, SIDEWALK, AND UTILITIES NOT INTENDED SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.
- ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHA 8. FROM THE PROPERTY AND PROPER DISPOSAL.
- 9. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVERHEAD AN UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UT THE SITE WITH THE RESPECTIVE COMPANIES.
- 10. CONTRACTOR SHALL MAINTAIN REQUIRED DISTANCES FROM HIGH VOLTAGE OVER REMOVE TREES SO THEY DO NOT FALL TOWARDS OVERHEAD ELECTRICITY.
- PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS ANI 11. DEMOLISHED.
- 12. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, ST REGULATIONS AS WELL AS OSHA REGULATIONS.
- 13. EXISTING FIRE HYDRANTS ON OR NEAR THE SITE ARE TO REMAIN IN SERVICE. 14. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AV.

TRAFFIC NOTES:

- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY & FOR DRIVEWAY(S) ARE TO BE THERMOPLASTIC & MEET CITY OF WILMINGTON AND/OR NCDOT STANDARDS.
- 2. 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.
- 3. ALL TRAFFIC CONTROL SIGNS AND MARKINGS NOT WITHIN THE PUBLIC RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 4. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE. 5. ANY OPEN CUTTING OF A CITY STREET REQUIRES A UTILITY CUT PERMIT. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES, AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 6. CONTACT TRAFFIC ENGINEERING, AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. CALL TRAFFIC ENGINEERING FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
- 7. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND/OR CURBING SHALL BE REPLACED.
- 8. TACTILE WARNING MATS TO BE INSTALLED AT ALL WHEELCHAIR RAMPS

VERAL EROSION AND SEDIMENT CONTROL NOTES:	ER	OSION CONTROL AND	SEQUENCE O	F CONSTRUCTION I	NOTES:		NC ACCES
THE EROSION CONTROL PLAN SHALL INCLUDE PROVISIONS FOR GROUNDCOVER ON ALL EXPOSED PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1 WITHIN 7 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY. GROUND COVER SHALL BE PROVIDED ON ALL OTHER DISTURBED AREAS WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY.	"PH PRO DE	ASE" OF CONSTRUCTION. 1 DJECT IS DEVELOPED; WHE	THE ORDER AND S THER AS A WHOL MAIN IN PLACE UN	STEPS TAKEN MUST BE I E OR IN PHASES. ANY E NTIL THE ENTIRE DISTUR	IOTES ARE INTENDED FOR EACH MPLEMENTED AS EACH PART OF ROSION CONTROL BANCE IS STABILIZED AND ALL		GENERAL NO 1. SPECIAL ADA STA REGULA
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THE CONTRACTOR SHALL NOTIFY PLAN APPROVING AUTHORITY ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING	2.	CLEAR AND REMOVE FROM WITHIN THE DESIGNATED O			DOT MAT, ETC. FROM THE AREA	L.	THE PRC DETAILS COMPLY
ACTIVITY, AND ONE WEEK PRIOR TO FINAL INSPECTION.	3.	DISTURBED. ALL EROSION			THE PLANS WITHIN THE AREA ED BEFORE COMMENCING		BUILDING AND DIM IMMEDIA
ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR _AND DISTURBANCE.	4.		RADED AREAS W	ITHIN 14 WORKING DAYS	OF CEASE OF ANY GRADING		3. THE CON BETWEE
A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.	5.				ATCH BASIN, DROP INLET, ETC	, THE	ENGINEE ALLEGEE CLAIM SH
PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NEW HANOVER COUNTY FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE	6.	DRAINAGE SYSTEM. THE CONTRACTOR SHALL I	BE RESPONSIBLE	FOR CLEANING AND RE	IMENT FROM ENTERING THE STORING TO PRE-CONSTRUCTIC NADVERTENTLY BE DAMAGED D		ANY SUC 4. THESE A REQUIRE
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ACTILIZED. ALL AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE SODDED OR SEEDED AS INDICATED AND STABILIZED.	9.	THE CONTRACTOR SHALL (AREAS UNTIL ALL CONSTR			ND MAINTAIN GRASS & PLANTED	0	ACCESSI 3. WALKING
DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE	ER	OSION CONTROL MAIN	ITENANCE PL/	AN:			SLOPE O 4. ANY WAL
PRIOR TO DISCHARGE TO RECEIVING OUTLET. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH	1.	FOLLOWING EVERY RUNOF	F- PRODUCING R	AINFALL BUT IN NO CASI	ED FOR STABILITY AND OPERAT E LESS THAN ONCE EVERY WEE L PRACTICES AS DESIGNED.		THAN 5.0
RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.	2.	ALL CONSTRUCTION ENTRA	ANCES WILL BE P	ERIODICALLY TOP DRES	SED WITH AN ADDITIONAL 2 INC TRACKED INTO THE STREET WI		5. TRANSIT OF ABRU
ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION OR A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY THE ENGINEER. (NO SEPARATE PAYMENT). NCDENR'S FINAL APPROVAL IS REQUIRED.	0	IMMEDIATELY REMOVED.					 FLOOR S THE MINI
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. (NO SEPARATE PAYMENT).	3.	FENCE. THE SEDIMENT FEM	NCE WILL BE BE R	EPAIRED AS NECESSAR	IT BECOMES 0.5 FEET DEEP AT ⁻ Y TO MAINTAIN A BARRIER. SILT KING IS USED WITH 8 FOOT STA	AKE	MINIMUM 1104.1 &
WHEN CROSSING CREEK OR DRAINAGE-WAY, THE DIVISION OF WATER QUALITY SHALL BE CONTACTED PRIOR TO DISTURBING A CREEK. THE CONTRACTOR SHALL INSTALL RIP-RAP WITH FABRIC ALONG	4.		,		Y, AND MULCHED ACCORDING TO IS, DENSE VEGETATIVE COVER.		FORTY-E APPROA INCHES M
DISTURBED BANKS AND CHANNEL AND RESTORE SLOPES TO ORIGINAL CONTOURS, BUT NOT STEEPER THAN 2:1 MAXIMUM. DISTURBED CREEK AREA SHALL BE STABILIZED IMMEDIATELY. MOLITION NOTES:	5.	EACH SIGNIFICANT (¹ / ₂ INCH SEDIMENT AND RESTORE T SEDIMENT HAS ACCUMULA	OR GREATER) RA THE SEDIMENT ST TED TO ONE-HAL	INFALL EVENT AND REP. ORAGE AREA TO ITS OR F THE DESIGN DEPTH OF	AT LEAST ONCE A WEEK AND AF AIR IMMEDIATELY. REMOVE IGINAL DIMENSIONS WHEN THE THE TRAP. PLACE THE SEDIME CE THE CONTAMINATED PART C	ENT	THIRTY-S .* SEE NO 9. AN ACCE SPACES SIXTY (60
CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING	6	THE GRAVEL FACING.	T TRAPS - REMOV	/E SEDIMENT AND REST	ORE THE BASIN TO ITS ORIGINAL	I	WALKING ARMS OF
SERVICE CONNECTIONS WHEN NECESSARY. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROVEMENTS WILL BE	0.	DIMENSIONS WHEN IT ACCU AREA WITH SEDIMENT CON	UMULATES TO WI ITROLS. CHECK T TLEMENT. MAKE	THIN ONE HALF OF THE THE EMBANKMENT, SPILI ALL NECESSARY REPAIF	DESIGN DEPTH. PLACE SEDIMEI WAYS, AND OUTLET FOR EROS SIMMEDIATELY. REMOVE ALL	NT IN	INTERSE 10. DOORS, I AMERICA A117.1, A
PERFORMED BY THE CONTRACTOR AND WILL BE CONSIDERED UNCLASSIFIED EXCAVATION. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE	7.				F THEY COLLAPSE, TEAR, DECOM ENT WILL BE REMOVED WHEN	IPOSE,	11. DIRECTIO
DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STEPS, AND STRUCTURES; ABANDONED UTILITIES, BUILDINGS, PAVEMENTS AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE GEOTECHNICAL ENGINEER FOR THE INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARING AND GRADING AND AS SHOWN ON THESE PLANS.	8.	THE INTAKE MECHANISM, C THE BASIN IS DRY, MAKE S	IER AT LEAST ON DRIFICE, OR DISC URE THAT ANY VI	CE A WEEK AND AFTER E HARGE PIPE IS NOT CLO EGETATION GROWING O	EACH RAINFALL TO MAKE SURE GGED WITH TRASH OR SEDIMEN N THE BOTTOM IS NOT HOLDING NT THE SKIMMER FROM PLUGGI	THAT NT. IF G THE	12. WHERE PO THAT A D WITH THI AND APP
THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.	9.	OR GREATER) RAINFALL E	/ENTS TO SEE IF .	ANY EROSION AROUND	EKLY AND AFTER SIGNIFICANT (2 DR BELOW THE RIP RAP HAS TAI ALL NEEDED REPAIRS TO PREV	KEN	 ANY PAR CONSIDE THE MAX
ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.	10.	INTEGRITY OF THE LINED S	PILLWAY AND TH	E ADJACENT EARTHEN E AMAGE. REPAIR ANY VO	GH-WATER EVENT INSPECT THE BANKS. IMMEDIATELY MAKE ALL IDS IN THE RIP RAP LINED APRO	-	 BE 2.0%. 3. THE CLE. 1104.1). V
THE CONTRACTOR SHALL PRODUCE A PHOTOGRAPHIC RECORD (DIGITAL) OF DEVELOPMENT COMMENCING WITH A RECORD OF THE SITE AS IT APPEARS BEFORE DEMOLITION HAS BEGUN. AFTERWARDS, A PHOTOGRAPHIC RECORD SHALL BE MAINTAINED WEEKLY DURING CONSTRUCTION AND ENDING WITH A PHOTOGRAPHIC RECORD OF THE DEVELOPMENT AS IT APPEARS AFTER DEMOLITION. THIS RECORD SHALL BE DELIVERED TO THE OWNER.	11.	TEMPORARY DIVERSION DI RAINFALL. IMMEDIATELY RE CAREFULLY CHECK OUTLE	ITCH - INSPECT TI EMOVE SEDIMEN TS AND MAKE TIN 9, REMOVE THE R	EMPORARY DIVERSIONS I FROM THE FLOW AREA IELY REPAIRS AS NEEDE IDGE AND THE CHANNEL	ONCE A WEEK AND AFTER EVER AND REPAIR THE DIVERSION RI D. WHEN THE AREA PROTECTED TO BLEND WITH THE NATURAL	IDGE. D IS	 BETWEEI THE RISE LANDING NOT STE
EXISTING CURB AND GUTTER, LIGHTS, SIDEWALK, AND UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.	12.	CHECK DAMS - EXCELSIOR	(WATTLES) OR R	IP-RAP - SEDIMENT SHAL	L BE REMOVED FROM THE DAM		AS THE V INCHES L CLEAR L
ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHALL INCLUDE REMOVAL FROM THE PROPERTY AND PROPER DISPOSAL.			ED, DISLODGED,	OR DAMAGED. UPSTREA	OR REPLACED WHEN THEY NO	ED OF	6. RAMP RL COMPLY CODE/AN
CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE COMPANIES.							 FLOOR S EDGE PR
CONTRACTOR SHALL MAINTAIN REQUIRED DISTANCES FROM HIGH VOLTAGE OVERHEAD LINES AND REMOVE TREES SO THEY DO NOT FALL TOWARDS OVERHEAD ELECTRICITY.		PERMANENT SEE	DING				NC BUILE EACH SIE
PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.		GRASS TYPE	LBS/ ACRE	TIME OF SEEDING	FERTILIZER LIMESTONE		9. WHERE I REQUIRE CODE/AN
ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.		BERMUDA, HULLED BERMUDA. UNHULLED	10-20 35	MARCH - AUGUST SEPT FEB.	BY SOIL TEST		THAT AR PROVIDE
EXISTING FIRE HYDRANTS ON OR NEAR THE SITE ARE TO REMAIN IN SERVICE.		CENTIPEDE	10	MARCH - AUGUST	BY SOIL TEST		CURB RAMP I
INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS.		TALL FESCUE			(NO HIGH PH) 300 LB/AC 10-20-20		2. COUNTE
RAFEIC NOTES.		(COASTAL CULTIVAR RECOMMENDED)	50	MARCH - AUGUST	OR BY SOIL TEST		2. COUNTE CURB RA RAMPS T

JAN - DEC

TIME OF

SEEDING

OCT. - APR.

JUNE - AUGUST

JUNE - AUGUST

BY SOIL TEST

FERTILIZER

LIMESTONE

400 LBS/AC. 10-20-20

400 LBS/AC. 10-20-20

400 LBS/AC. 10-20-20

SLOPES >= 2:1

LESPEDEZA

GRASS TYPE

RYE GRAIN

SWEET SUDAN

GRASS

GERMAN or

BROWNTOP MILLET

STRAW MULCH

AS NEEDED

CENTIPEDE SERICEA

TEMPORARY SEEDING

20

LBS/ ACRE

50

4,000

NC ACCESSIBILITY NOTES

AL ATTENTION SHALL BE GIVEN TO COMPLIANCE WITH AMERICANS WITH DIS ANDARDS), THE NORTH CAROLINA BUILDING CODE/ANSI A117.1, AND APPLI I ATIONS

- SSENTIAL THAT CONTRACTORS ARE AWARE OF THE SITE ACCESSIBILITY RE MOUNTE ENGINEERING HAS DEVELOPED THESE NOTES AND DETAILS TO ASS RACTORS ARE AWARE OF THE REQUIREMENTS AT THE POINT IN TIME WHEN ROJECT. IN ADDITION, PARAMOUNTE ENGINEERING HAS MADE A POINT IN T LS, AS WELL AS IN OUR DRAWINGS, TO PROVIDE SLOPES / GRADES AND DIM LY WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), TH ING CODE/ANSI A117.1 AND APPLICABLE LOCAL LAWS & REGULATIONS. IF TH DIMENSIONS ARE NOT ACHIEVABLE, THE CONTRACTOR IS REQUIRED TO CON DIATELY AND BEFORE MOVING FORWARD WITH THE WORK.
- ONTRACTOR SHALL NOTIFY PARAMOUNTE ENGINEERING IMMEDIATELY OF EEN THESE NOTES AND DETAILS AND OTHER PROJECT DRAWINGS, WHETHE IEERING OR OTHERS. THE CONTRACTOR SHALL NOT PROCEED WITH THE W GED CONFLICT HAS BEEN DISCOVERED UNTIL SUCH ALLEGED CONFLICT HAS SHALL BE MADE BY THE CONTRACTOR FOR DELAY OR DAMAGES AS A RESU UCH CONFLICT(S).
- ACCESSIBILITY NOTES AND DETAILS ARE INTENDED TO DEPICT SLOPE AND REMENTS ONLY. REFER TO SIDEWALK, CURBING, AND PAVEMENT DETAILS MATION.

LE ROUTE NOTES:

- AST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM A ES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS OR SID SPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE
- AST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACC SIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.
- ING SURFACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL HAVE A MA E OF 5.0% AND A MAXIMUM CROSS SLOPE OF 2.0%.
- VALKING SURFACE THAT IS PART OF AN ACCESSIBLE ROUTE WITH A RUNNIN 5.0% IS A RAMP AND SHALL COMPLY WITH THE GUIDELINES FOR RAMPS OR
- SITIONS BETWEEN RAMPS, WALKS, LANDINGS, GUTTERS OR STREETS SHALL BRUPT VERTICAL CHANGES (1/4 INCH MAXIMUM VERTICAL CHANGE IN LEVEL
- SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT IINIMUM CLEAR WIDTH OF EXTERIOR ACCESSIBLE ROUTES SHALL BE FORTY
- IUM MEASURED BETWEEN HANDRAILS WHERE HANDRAILS ARE PROVIDED (N
- E AN ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN OBJECT Y-FIGHT (48) INCHES IN WIDTH, CLEAR WIDTH SHALL BE FORTY-TWO (42) INC DACHING THE TURN, FORTY-EIGHT (48) INCHES MINIMUM DURING THE TURN S MINIMUM LEAVING THE TURN. THE CLEAR WIDTH APPROACHING AND LEA Y-SIX (36) INCHES MINIMUM WHEN THE CLEAR WIDTH AT THE TURN IS SIXTY NOTE 7 ABOVE FOR NC CLEAR WIDTH OF EXTERIOR ACCESSIBLE ROUTES*
- CESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN SIXTY (60) INCHES SHAL ES AT INTERVALS OF TWO HUNDRED (200) FEET MAXIMUM. PASSING SPACES (60) INCH MINIMUM BY SIXTY (60) INCH MINIMUM SPACE; OR AN INTERSECTIO ING SURFACES THAT PROVIDE A COMPLIANT T-SHAPED TURNING SPACE, PR S OF THE T-SHAPED SPACE EXTEND FORTY-EIGHT (48) INCHES MINIMUM BEY(SECTION
- S, DOORWAYS AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHAL ICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NORTH CAROLINA AND APPLICABLE LOCAL LAWS & REGULATIONS.
- TIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE BU BE PROVIDED AT INACCESSIBLE BUILDING ENTRANCES.
- POSSIBLE, DRAINAGE INLETS SHALL NOT BE LOCATED ON AN ACCESSIBLE A DRAINAGE INLET MUST BE LOCATED ON AN ACCESSIBLE ROUTE, THE GRA THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), A117.1, THE PPLICABLE LOCAL LAWS & REGULATIONS

- PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5% IDERED A RAMP.
- AXIMUM RUNNING SLOPE FOR A RAMP SHALL BE 8.33% AND THE MAXIMUM (
- LEAR WIDTH OF AN EXTERIOR RAMP RUN SHALL BE FORTY EIGHT INCHES (1 WHERE HANDRAILS ARE PROVIDED ON THE RAMP RUN, THE CLEAR WIDTH EEN THE HANDRAILS.
- RISE FOR ANY RAMP RUN SHALL BE THIRTY (30) INCHES MAXIMUM.
- INGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF RAMPS. LANDINGS STEEPER THAN 2.0% IN ANY DIRECTION. THE LANDING CLEAR WIDTH SHALL WIDEST RAMP RUN LEADING TO THE LANDING. THE LANDING CLEAR LENG ES LONG MINIMUM. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LA LANDING OF SIXTY (60) INCHES BY SIXTY (60) INCHES MINIMUM.
- RUNS WITH A RISE GREATER THAN SIX (6) INCHES SHALL HAVE HANDRAILS LYING WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS) ANSI A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS.
- R SURFACES OF RAMPS AND LANDINGS SHALL BE STABLE, FIRM AND SLIP RE PROTECTION COMPLYING WITH AMERICANS WITH DISABILITIES ACT (2010 AD JILDING CODE/ANSI A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS SH
- SIDE OF RAMP RUNS AND ON EACH SIDE OF RAMP LANDINGS. E DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING IIRED BY THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), TH ANSI A117.1 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING A ARE SUBJECT TO LOCKING ARE ADJACENT TO A RAMP LANDING, LANDINGS IDE A COMPLIANT TURNING SPACE.

<u>IP NOTES:</u>

- AXIMUM RUNNING SLOPE OF A CURB RAMP SHALL BE 8.33% AND THE MAXIM L BE 2.0%.
- TER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY A CURB RAMP SHALL NOT BE STEEPER THAN 5%. THE ADJACENT SURFACES AT TRA RAMPS TO WALKS, GUTTERS AND STREETS SHALL BE AT THE SAME LEVEL.
- THE CLEAR WIDTH OF A CURB RAMP SHALL BE 36 INCHES (36) MINIMUM, EXCLUSIV PROVIDED. *NOTE NC BUILDING CODE REQUIRES EXTERIOR ACCESSIBLE ROUTES MINIMUM WIDE (1104.1 & 1104.2).*
- LANDINGS SHALL BE PROVIDED AT THE TOP OF CURB RAMPS. THE CLEAR LENGTH SHALL BE THIRTY-SIX (36) INCHES MINIMUM. THE CLEAR WIDTH OF THE LANDING S WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING. HAVE A SLOPE NOT STEEPER THAN 2% IN ANY DIRECTION.
- 5. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAM NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES. 6. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT EXCEED 10%.
- 7. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO TH PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES OR PARKING ACCES MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCI
- 8. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCT VEHICLES.
- 9. IT IS RECOMMENDED TO PROVIDE CURB RAMPS WITH A TWENTY-FOUR (24) INCH D WARNING COMPLYING WITH 406.12 A117.1, EXTENDING THE FULL WIDTH OF THE RA DETECTABLE WARNING DETAILS AND NOTES FOR PLACEMENT, ORIENTATION AND BUILDING CODE DOES NOT CURRENTLY REQUIRE DETECTABLE WARNINGS AT CUP THE 2010 ADA STANDARDS - HOWEVER US DOT ADA REGULATIONS DO REQUIRE T
- 10. FLOOR SURFACES OF CURB RAMPS SHALL BE DEEP GROOVED, 1/2 INCH WIDE BY 1/2 INCH CENTERS TRANSVERSE TO THE RAMP.
- 11. WHERE PROVIDED, STOP LINES SHALL BE LOCATED IN ADVANCE OF CURB RAMP. 12. WHERE PROVIDED, PEDESTRIAN ACTIVATED SIGNALS SHALL BE LOCATED ADJACENT TO THE SIDEW
- AND NOT ON THE SIDEWALK. 13. WHERE PROVIDED, DRAINAGE INLETS SHALL BE LOCATED UPSTREAM OF CURB RAMPS AND NOT IN THE
- 14. CURB RAMP TYPE AND LOCATION ARE PER PLAN.

RAMP AREA.

	NC ACCESSIBILITY NOTES CONTD. PARKING SPACE NOTES:
SABILITIES ACT (2010 CABLE LOCAL LAWS &	1. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTES OF TRAVEL
QUIREMENTS. SURE THAT THEY ARE BIDDING HESE NOTES AND ENSIONS THAT HE NORTH CAROLINA HESE SLOPES / GRADES ITACT THE OWNER	 FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE. 2. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST NINETY-SIX (96) INCHES WIDE. ACCESS AISLES SHALL BE 60 INCHES WIDE. ONE OF SIX ACCESSIBLE SPACES SHOULD PROVIDE A VAN ACCESSIBLE AISLE. THE AISLE SHOULD BE 96 INCHES WIDE (OR ACCESSIBLE SPACE IS 11 FEET AND ACCESS AISLE IS FIVE FEET). WHERE PARKING SPACES AND ACCESS AISLES ARE MARKED WITH LINES, THE WIDTH MEASUREMENTS SHALL BE MADE FROM CENTERLINE OF THE MARKINGS. WHERE PARKING SPACES OR ACCESS AISLES ARE NOT ADJACENT TO ANOTHER PARKING SPACE OR ACCESS AISLES, MEASUREMENTS SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE PARKING SPACE OR ACCESS AISLE.
ANY CONFLICT R BY PARAMOUNTE	3. PARKING ACCESS AISLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE AND SHALL COMPLY WITH PROVISIONS FORACCESSIBLE ROUTES. MARKED CROSSINGS SHALL BE PROVIDED WHERE THE ACCESSIBLE ROUTE MUST CROSS VEHICULAR TRAFFIC LANES. WHERE POSSIBLE, IT IS PREFERABLE THAT THE ACCESSIBLE ROUTE NOT PASS BEHIND PARKED VEHICLES.
ORK FOR WHICH THE BEEN RESOLVED. NO JLT OF RESOLUTION OF	 TWO (2) ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACE THEY SERVE.
) DIMENSIONAL FOR ADDITIONAL	 ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPTFOR ANGLED VAN PARKING SPACES WHICH
CCESSIBLE PARKING EWALKS; AND PUBLIC	 SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES. FLOOR SURFACES OF PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL BE STABLE, FIRM AND SLIP RESISTANT. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY
THEY SERVE. CESSIBLE FACILITIES,	 SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. 9. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 2.0% IN ALL DIRECTIONS.
AXIMUM RUNNING	 PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE.
G SLOPE GREATER CURB RAMPS.	11. PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF NINETY-EIGHT (98) INCHES MINIMUM. SIGNS SHALL BE PROVIDED
BE FLUSHAND FREE PERMITTED).	AT ENTRANCES TO PARKING FACILITIES INFORMING DRIVERS OF CLEARANCES AND THE LOCATION OF VAN ACCESSIBLE PARKING SPACES. 12. EACH ACCESSIBLE PARKING SPACE SHALL BE PROVIDED WITH SIGNAGE DISPLAYING THE
-EIGHT (48) INCHES IC BUILDING CODE	INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS SHALL BE INSTALLED AT A MINIMUM CLEAR HEIGHT OF SIXTY (60) INCHES ABOVE GRADE AND SHALL NOT INTERFERE WITH AN ACCESSIBLE ROUTE FROM AN ACCESS AISLE. SIGNS LOCATED WHERE THEY MAY BE HIT BY VEHICLES BEING PARKED SHALL BE INSTALLED WITH BOLLARD PROTECTION.
THAT IS LESS THAN HES MINIMUM , AND FORTY-TWO (42) VING THE TURN MAY BE (60) INCHES MINIMUM.	13. SIGNAGE AT ACCESSIBLE PARKING SPACES REQUIRED BY THE NC BUILDING CODE SECTION 1106.1SHALL COMPLY WITH THE REQUIREMENTS OF NORTH CAROLINA GENERAL STATUTE 20-37.6 AND 136-30 AND THE NCDOT UNIFORM MANUAL ON TRAFFIC CONTROL DEVICES. A SEPARATE SIGN IS REQUIRED FOR EACH SPACE. SIGNS TO INDICATE THE MAXIMUM PENALTY MUST BE PROVIDED AT EACH ACCESSIBLE SPACE.
LPROVIDE PASSING S SHALL BE EITHER A DN OF TWO (2)	14. ACCESSIBLE PARKING SPACE, ACCESS AISLE STRIPING, AND INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE PAINTED BLUE (OR ANOTHER COLOR THAT CAN BE DISTINGUISHED FROM PAVEMENT). <u>PASSENGER LOADING ZONE NOTES:</u>
OVIDED THE BASE AND DND THE	1. PASSENGER LOADING ZONES SHALL PROVIDE VEHICULAR PULL-UP SPACE NINETY-SIX (96) INCHES WIDE MINIMUM AND TWENTY (20) FEET LONG MINIMUM.
L COMPLY WITH THE A BUILDING CODE/ ANSI	2. PASSENGER LOADING ZONES SHALL PROVIDE A CLEARLY MARKED ACCESS AISLE THAT IS SIXTY (60) INCHES WIDE MINIMUM AND EXTENDS THE FULL LENGTH OF THE VEHICLE PULL-UP SPACE THEY SERVE.
ILDING ENTRANCE	 ACCESS AISLE SHALL ADJOIN AN ACCESSIBLE ROUTE AND NOT OVERLAP THE VEHICULAR WAY. VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL BE LEVEL WITH SURFACE SLOPES
ROUTE. IN THE EVENT TE SHALL COMPLY E NC BUILDING CODE,	 NOT EXCEEDING 2.0% IN ALL DIRECTIONS. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE VEHICLE PULL-UP SPACE THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. 5. FLOOR SURFACES OF VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL BE STABLE,
SHALL BE	 FIRM AND SLIP RESISTANT. 6. VEHICLE PULL-UP SPACES, ACCESS AISLES SERVING THEM AND A VEHICULAR ROUTE FROM AN ENTRANCE TO THE PASSENGER LOADING ZONE, AND FROM THE PASSENGER LOADING ZONE TO A VEHICULAR EXIT SERVING THEM, SHALL PROVIDE A VERTICAL CLEARANCE OF ONE HUNDRED FOURTEEN (114) INCHES MINIMUM.
CROSS SLOPE SHALL	ACCESSIBLE ENTRANCE NOTES:
IC BUILDING CODE I SHALL BE MEASURED	 ACCESSIBLE ENTRANCES SHALL BE PROVIDED AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS) AND THE NORTH CAROLINA BUILDING CODE, AND APPLICABLE LOCAL LAWS & REGULATIONS.
SHALL HAVE A SLOPE	2. ENTRANCE DOORS, DOORWAYS AND GATES SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS) THE NC BUILDING CODE/ANSI A117.1 AND SHALL BE ON AN ACCESSIBLE ROUTE.
BE AT LEAST AS WIDE STH SHALL BE SIXTY (60) NDINGS SHALL HAVE A	GENERAL STORM SEWER NOTES: 1. ALL STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALL STORM SEVERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF
ON BOTH SIDES), THE NC BUILDING	 WILMINGTON REQUIREMENTS AS SPECIFIED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS. 2. BEDDING FOR ALL STORM SEWER PIPE SHALL BE AS SPECIFIED ON THE DRAWINGS.
ESISTANT.	 ALL STORM SEWER PIPES SHOWN AS RCP ON THE PLANS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, UNLESS INDICATED OTHERWISE ON PLANS.
DA STANDARDS), THE HALL BE PROVIDED ON	ROOF DRAIN NOTE:
G CLEARANCES IE NC BUILDING REA. WHERE DOORS	 PROPOSED BUILDING SHALL DIVERT ROOF DRAINAGE TO STORMWATER COLLECTION SYSTEM.
SHALL BE SIZED TO	EXISTING UTILITY NOTES:
IUM CROSS SLOPE	1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
DJACENT TO THE ANSITIONS AT CURB	 2. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED
E OF FLARED SIDES, IF TO BE 48 INCHES	REPRESENTATIVE IMMEDIATELY.
H OF THE LANDING SHALL BE AT LEAST AS LANDINGS SHALL	WETLAND NOTES: 1) THERE ARE NO WETLANDS FLAGGED AND SURVEYED ON THE PROPERTY.
IP, OR WHERE IT IS	С С С С С С С С С С С С С С С
IAT THEY DO NOT 35 AISLES. CURBS AT LUDING ANY FLARED	
ION BY PARKED	Know what's below.
DEEP DETECTABLE AMP. REFERTO NOTES. THE NC RB RAMPS, NOR DO HESE.	Know what's below. Call before you dig.
INCH DEEP, ONE (1)	For each open utility cut of City streets, a \$325 permit shall be required from the
	City prior to occupancy

IACENT TO THE SIDEWALK	
B RAMPS AND NOT IN THE	

				and/or project acceptance.
Appro	oved Construction	n Plan		TY OF
	<u>Name</u>	Date	WI	LMINGTON NORTH CAROLINA
Planning			Public Serv	vices
Traffic			APPROVED ST	ORMWATER MANAGEMENT PLAN
Fire			Date:	Permit #
			Oises a du	

 \square

	122 Cinema Drive Wilmington, North Carolina 28403 (910) 791-6707 (O) (910) 791-6760 (F) NC License #: C-2846
GENERAL NOTES	COLLEGE ACRES APARTMENTS COLLEGE ACRES DRIVE WILMINGTON, NEW HANOVER CO., NC
PROJECT STATUS CONCEPTUAL LAYOUT: 8.26.20 PRELIMINARY LAYOUT: 9.8.20 FINAL DESIGN: 10.13.20 RELEASED FOR CONST: 10.13.20	DRAWING INFORMATION DATE: 07.31.19 SCALE: N.T.S. DESIGNED: CDR DRAWN: CHECKED: JBS
SEAL C- PEI JOB#:	1.0

NC STI

INGT

NEW HANOVER COUNTY LAND QUALITY STABILIZATION (CHPT. 23, ARTICLE VI. SEC. 23-237; 2019):

1. SLOPES ARE NOT TYPICALLY GREATER THAN 2:1 AND MUST BE APPROVED BY THE COUNTY IF STEEPER. ALL SLOPES MUST BE STABILIZED WITHIN TWENTY-ONE (21) CALENDAR DAYS, WHICHEVER IS SHORTER OF COMPLETION OF ANY PHASE OF GRADING BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

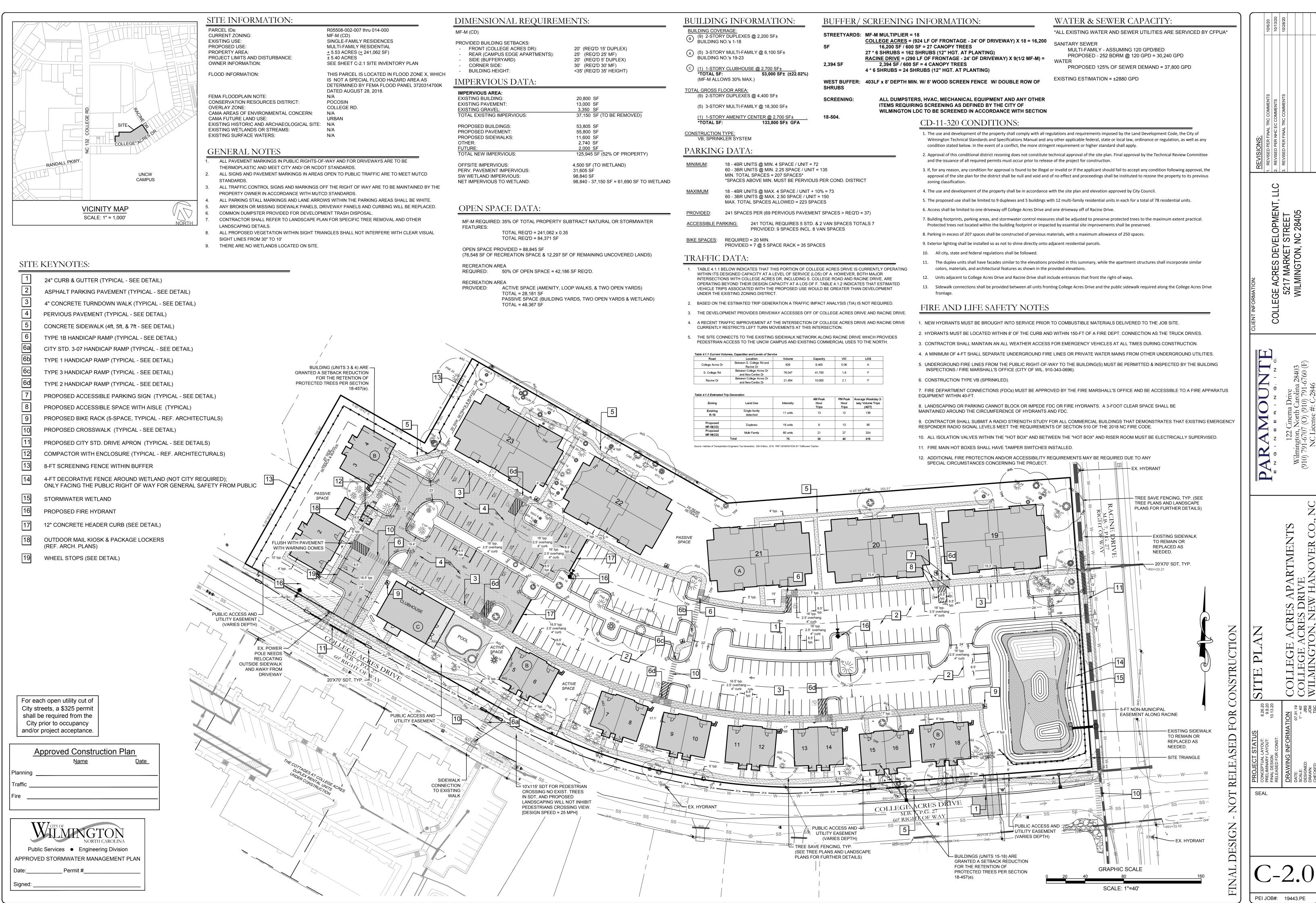
2. EXCEPT AS PROVIDED IN SECTION 23-238(B)(5) OF THIS ORDINANCE, PROVISIONS FOR A GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT WHICHEVER PERIOD IS SHORTER.

delegated authority having nay not apply depending SECTION E: GROUND STAI	th the Erosion and Se g jurisdiction. All deta on site conditions and BILIZATION	rmit (Sections E and F, respectively). The diment Control plan approved by the ils and specifications shown on this sheet d the delegated authority having jurisdiction.	 project. 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible). 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected. 6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products 	
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance		to a recycling or disposal center that handles these materials. LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE 1. Never bury or burn waste. Place litter and debris in approved waste containers.	<u>PLAN</u> BELOW GI
(a) Perimeter dikes, swales, ditches, and perimeter slopes		None	 Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface 	CONCRETE WASI1.Do not disc2.Dispose of,
(b) High Quality Water (HQW) Zones	7	None	waters unless no other alternatives are reasonably available.4. Locate waste containers on areas that do not receive substantial amounts of runoff	and state s 3. Manage wa
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed	from upland areas and does not drain directly to a storm drain, stream or wetland.5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.	addition pl lot perimet 4. Install tem
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed	 Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow. Dispose waste off-site at an approved disposal facility. On business days, clean up and dispose of waste in designated waste containers. 	alternate n review and types of ter 5. Do not use sections. S discharged
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope	 PAINT AND OTHER LIQUID WASTE 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands. 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. 	be pumped 6. Locate was can be show install prote spills or ove
ground stabilization shall to practicable but in no case	be converted to perm longer than 90 calend	iction activities, any areas with temporary anent ground stabilization as soon as dar days after the last land disturbing	 Contain liquid wastes in a controlled area. Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites. 	7. Locate was entrance papproving a
		e maintained in a manner to render the	construction sites.	8. Install at lea
surface stable against acce	elerated erosion until	e maintained in a manner to render the permanent ground stabilization is achieved.	PORTABLE TOILETS	8. Install at lea limits. Post
Surface stable against acce GROUND STABILIZATION Stabilize the ground suffic sechniques in the table be	elerated erosion until SPECIFICATION ently so that rain will low:	permanent ground stabilization is achieved. not dislodge the soil. Use one of the	PORTABLE TOILETS 1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place	8. Install at lea
Surface stable against acce GROUND STABILIZATION Stabilize the ground suffic techniques in the table be Temporary Stab • Temporary grass seed cow other mulches and tackifie	SPECIFICATION ently so that rain will low: illization ered with straw or rs	permanent ground stabilization is achieved. I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers	 PORTABLE TOILETS 1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. 2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. 	 Install at lea limits. Post Remove lea overflow ex component
urface stable against acce GROUND STABILIZATION itabilize the ground suffic echniques in the table be Temporary Stab • Temporary grass seed cow other mulches and tackifie • Hydroseeding • Rolled erosion control pro without temporary grass s	SPECIFICATION ently so that rain will low: illization ered with straw or rrs ducts with or eed	permanent ground stabilization is achieved. I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding	 PORTABLE TOILETS 1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. 2. Provide staking or anchoring of portable toilets during periods of high winds or in high 	 Install at lea limits. Post Remove lea overflow ex component products, fa At the com in an approximation
Surface stable against acce GROUND STABILIZATION Stabilize the ground suffici- techniques in the table be Temporary grass seed cov- other mulches and tackifie Hydroseeding Rolled erosion control pro- without temporary grass se Appropriately applied stra	SPECIFICATION ently so that rain will low: illization ered with straw or rrs ducts with or eed w or other mulch	permanent ground stabilization is achieved. I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting	 PORTABLE TOILETS Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace 	 Install at lea limits. Post Remove lea overflow ex component products, fe At the com in an appro caused by the
Surface stable against acce GROUND STABILIZATION Stabilize the ground suffici- techniques in the table be Temporary Stab • Temporary grass seed cow other mulches and tackifie • Hydroseeding • Rolled erosion control pro- without temporary grass se	SPECIFICATION ently so that rain will low: illization ered with straw or rs ducts with or eed w or other mulch •	permanent ground stabilization is achieved. I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered	 PORTABLE TOILETS Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit. EARTHEN STOCKPILE MANAGEMENT Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available. 	 Install at lea limits. Post Remove lea overflow ex component products, fr At the com in an appro caused by r
Surface stable against acce GROUND STABILIZATION Stabilize the ground suffici- techniques in the table be Temporary grass seed cov- other mulches and tackifie Hydroseeding Rolled erosion control pro- without temporary grass se Appropriately applied stra	elerated erosion until SPECIFICATION ently so that rain will low: ilization ered with straw or rs ducts with or eed w or other mulch •	permanent ground stabilization is achieved. I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed	 PORTABLE TOILETS Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit. EARTHEN STOCKPILE MANAGEMENT Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably 	 8. Install at leading in the imits. Post limits. Post overflow expression expression
 Surface stable against accession ac	Elerated erosion until SPECIFICATION ently so that rain will low: ilization ered with straw or rs ducts with or eed w or other mulch • S) AND FLOCCULANT at are appropriate fo ing from the NC DWR or before the inlets t	permanent ground stabilization is achieved. I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed TS r the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> o Erosion and Sediment Control Measures.	 PORTABLE TOILETS Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit. EARTHEN STOCKPILE MANAGEMENT Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile. Provide stable stone access point when feasible. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined 	 8. Install at leading in the imits. Post limits. Post overflow exponent products, for 10. At the comin an approcaused by the image of the i
 Surface stable against acceleration SROUND STABILIZATION Stabilize the ground sufficienchniques in the table be Temporary Stab Temporary grass seed covid the mulches and tackifie Hydroseeding Rolled erosion control prowithout temporary grass seited to a stabilize the ground stratement of the stabilized stratement of the stratement of	Pererated erosion until PERECIFICATION PENDING STATES PECIFICATION PERENTS PECIFICATION PERENTS PECIFICATION PERENTS PECIFICATION PERENTS PECIFICATION PECIFICAT	permanent ground stabilization is achieved. I not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed	 PORTABLE TOILETS Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit. EARTHEN STOCKPILE MANAGEMENT Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile. Provide stable stone access point when feasible. Stabilize stockpile within the timeframes provided on this sheet and in accordance 	 8. Install at lea limits. Post 9. Remove lea overflow ex- component products, fr 10. At the com in an appro- caused by n HERBICIDES, PEST Store and a restrictions Store herbi- label, which accidental p Do not stor possible or or surface v

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

	SELF-INSPECTI	PART III ON, RECORDKEEPING AND REPORTING	SELF-INSPECTION, REG	PART III CORDKEEPING AND REPORTING	S
ECTION A: SEL	-INSPECTION		SECTION B: RECORDKEEPING		SECTION C: REPORTIN
elf-inspections	are required duri	ng normal business hours in accordance with the table	1. E&SC Plan Documentation		1. Occurrences that n
ersonnel to be hich it is safe t reater than 1.0 erformed upor	in jeopardy, the i o perform the ins inch occurs outs the commencen	r site conditions would cause the safety of the inspection nspection may be delayed until the next business day on spection. In addition, when a storm event of equal to or ide of normal business hours, the self-inspection shall be nent of the next business day. Any time when inspections are Inspection Record.	The approved E&SC plan as well as any approved E&SC plan must be kept up-to-	oproved deviation shall be kept on the site. The date throughout the coverage under this permit. SC plan shall be documented in the manner	Permittees shall rep (a) Visible sedimen (b) Oil spills if: • They are 25 g
vere delayed si		e inspection Record.	Item to Document	Documentation Requirements	They are less
	Frequency		(a) Each E&SC Measure has been installed	Initial and date each E&SC Measure on a copy	They cause s
Inspect	(during normal business hours)	Inspection records must include:	and does not significantly deviate from the	of the approved E&SC Plan or complete, date	They are with
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device	locations, dimensions and relative elevations shown on the approved E&SC Plan.	and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.	(a) Releases of haz of the Clean W (Ref: 40 CFR 30
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain	 approved by the Division. Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating 	(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.	(b) Anticipated by (c) Noncompliance
(3) Stormwater	event ≥ 1.0 inch in 24 hours At least once per	 Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken. Identification of the discharge outfalls inspected, 	(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved	environment.
discharge outfalls (SDOs)	7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, 	(d) The maintenance and repair requirements for all E&SC Measures have been performed.	ground cover specifications. Complete, date and sign an inspection report.	After a permittee b the appropriate Div other requirements reported to the Div
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain	 Description, evidence, and date of corrective actions taken. If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has left the site limits, 	(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.	858-0368 or (919) 7
(5) Streams or wetlands onsite or offsite (where accessible)	event \geq 1.0 inch in 24 hours At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	 Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future releases. If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: Description, evidence and date of corrective actions taken, and Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of the material sections taken. 	site and available for agency inspectors at all	above, the following items shall be kept on the times during normal business hours, unless the n based on unique site conditions that make this	(a) Visible sediment deposition in a stream or wetland
(6) Ground stabilization measures	After each phase of grading	 of this permit. 1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible. 	(b) Records of inspections made during the required observations on the Instantiation a similar inspection form that includ	u of the required paper copies will be allowed if	(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above (c) Anticipated
NOTE: The rain	n inspection reset	s the required 7 calendar day inspection requirement.	(c) All data used to complete the Notice	of Intent and older inspection records shall be rs after project completion and made available	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance
					with the conditions of this permit that may endanger health or the environment[40 CFR 122.41()(7)]

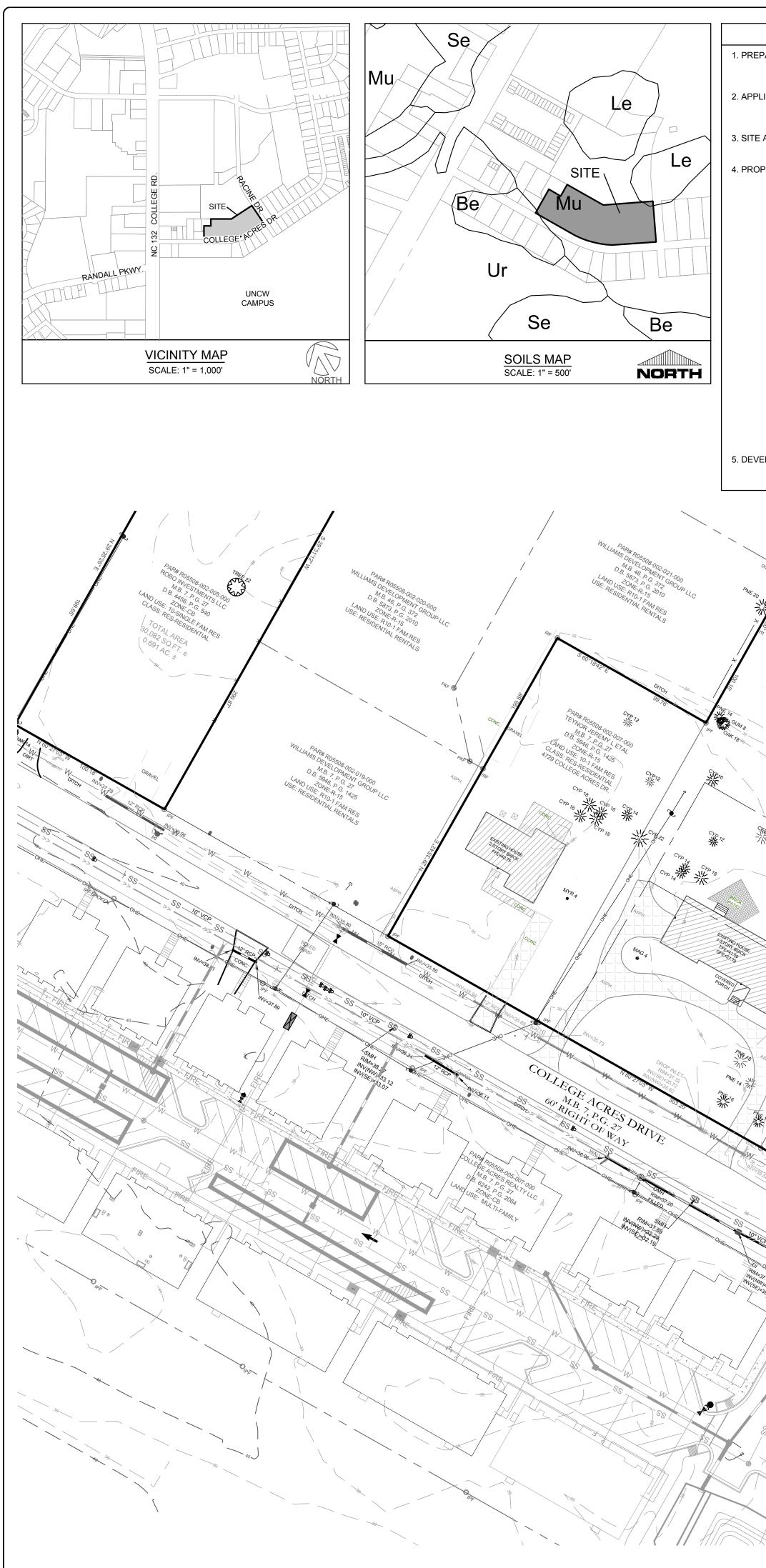
ADJUSTICE CONCRETE WASHOUT Image: Concrete or comment slurry from the site. ADJUSTICE CONCRETE WASHOUT Image: Concrete or comment slurry from the site. ADJUSTICE CONCRETE IN SUPPORT on a paproval authority for makes on the paproval authority for m		REVISIONS: 1. REVISED PER FINAL TRC COMMENTS 2. REVISED PER NHC EC COMMENTS 3. REVISED PER FINAL TRC COMMENTS 10/13/20
Interpretation of the transition of the storm drain system or receiving surface waters. Liquid waste must do ut and removed from project. Shouts at least 50 feet from storm drain inlets and surface waters unless it with that no other alternatives are reasonably available. At a minimum, ection of storm drain inlet(s) closest to the washout which could receive erflow. Shouts in an easily accessible area, on level ground and install a stone ad in front of the washout. Additional controls may be required by the authority. ast one sign directing concrete trucks to the washout within the project t signage on the washout itself to identify this location. avings from the washout when at approximately 75% capacity to limit vents. Replace the tarp, sand bags or other temporary structural ts when no longer functional. When utilizing alternative or proprietary ollow manufacturer's instructions. appletion of the concrete work, remove remaining leavings and dispose of boyed disposal facility. Fill pit, if applicable, and stabilize any disturbance removal of washout.		COLLEGE ACRES DEVELOPMENT, LLC 5217 MARKET STREET WILMINGTON, NC 28405
A contract of the second and redentiended in deconductive with haden second and redentiended in deconductive with haden second and redentiended in deconductive with haden second and redentiended in the region of the second and redentiended in the s		PARAMOUNTE E N G I N E E R I N G. I
ING must be reported eport the following occurrences: ent deposition in a stream or wetland. 5 gallons or more, ss than 25 gallons but cannot be cleaned up within 24 hours, sheen on surface waters (regardless of volume), or ithin 100 feet of surface waters (regardless of volume), or azardous substances in excess of reportable quantities under Section 311 Nater Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA 802.4) or G.S. 143-215.85. wypasses and unanticipated bypasses. ce with the conditions of this permit that may endanger health or the . becomes aware of an occurrence that must be reported, he shall contact byosion regional office within the timeframes and in accordance with the tist listed below. Occurrences outside normal business hours may also be ivision's Emergency Response personnel at (800) 662-7956, (800) (733-3300. Reporting Timeframes (After Discovery) and Other Requirements • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a	R CONSTRUCTION	82620 9820 1013.20 NPDES NCG01 NOTES 9820 1013.20 PDES NCG01 NOTES 9820 1013.20 COLLEGE ACRES APARTMENTS ON DIA COLLEGE ACRES DRIVE COLLEGE ACRES DRIVE COLLEGE ACRES DRIVE MILMINGTON, NEW HANOVER CO., NC
 Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a case-by-case basis. 	For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.	PROJECT STATUS CONCEPTUAL LAYOUT: 82 PRELIMINARY LAYOUT: 9 FINAL DESIGN: 10.1 PRELEASED FOR CONST: 10.1 PRELEASED FOR CONST: 10.1 PATE: 07.3 CALE: DATE: 07.3 CALE: DATE: 07.3 CALE: DATE: CALE: CA
G EFFECTIVE: 04/01/19	APPROVED STORMWATER MANAGEMENT PLAN Date:Permit #	C-1.1 PEI JOB#: 19443.PE



	DIMENSIONAL REQUIREM	IENTS:	BUILDIN	NG INFOR	MATION:	BUFFER/	SC
K, WHICH S 14700K	MF-M (CD) PROVIDED BUILDING SETBACKS: - FRONT (COLLEGE ACRES DR): - REAR (CAMPUS EDGE APARTMENTS): - SIDE (BUFFERYARD) - CORNER SIDE: - BUILDING HEIGHT: IMPERVIOUS DATA:	20' (REQ'D 15' DUPLEX) 25' (REQ'D 25' MF) 20' (REQ'D 5' DUPLEX) 30' (REQ'D 30' MF) <35' (REQ'D 35' HEIGHT)	 BUILDING (5) 3-STO BUILDING (1) 1-STO *TOTAL \$ 	DRY DUPLEXES @ G NO.'s 1-18 DRY MULTI-FAMILY G NO.'s 19-23 DRY CLUBHOUSE (′@ 6,100 SF±	STREETYARDS: SF 2,394 SF WEST BUFFER:	<u>CC</u> 27 <u>RA</u> 4 *
147001	IMPERVIOUS AREA: EXISTING BUILDING: EXISTING PAVEMENT: EXISTING GRAVEL:	20,800 SF 13,000 SF 3,350 SF		<u>FLOOR AREA:</u> DRY DUPLEXES @ DRY MULTI-FAMILY		SHRUBS SCREENING:	
	TOTAL EXISTING IMPERVIOUS: PROPOSED BUILDINGS: PROPOSED PAVEMENT: PROPOSED SIDEWALKS: OTHER: FUTURE: TOTAL NEW IMPERVIOUS:	37,150 SF (TO BE REMOVED) 53,805 SF 55,800 SF 11,600 SF 2,740 SF 2,000 SF 125,945 SF (52% OF PROPERTY)	*TOTAL S CONSTRUCTIO VB; SPRI		ITER @ 2,700 SF± 133,800 SF± GFA	18-504.	
	OFFSITE IMPERVIOUS: PERV. PAVEMENT IMPERVIOUS: SW WETLAND IMPERVIOUS: NET IMPERVIOUS TO WETLAND:	4,500 SF (TO WETLAND) 31,605 SF 98,840 SF 98,840 - 37,150 SF = 61,690 SF TO WETLAND	MINIMUM:	60 - 3BR UNITS MIN. TOTAL SF	© @ MIN. 4 SPACE / UNIT = 7 © @ MIN. 2.25 SPACE / UNIT PACES = 207 SPACES* VE MIN. MUST BE PERVIOU	= 135	СТ
BY THE FE. CED.	OPEN SPACE DATA:		<u>MAXIMUM</u> : PROVIDED [.]	60 - 3BR UNITS MAX. TOTAL SI	© MAX. 4 SPACE / UNIT + © MAX. 2.50 SPACE / UNIT PACES ALLOWED = 223 SP/ FR (69 PERVIOUS PAVEME)	= 150 ACES	= 37)

Road	Location	Volume	Capacity	V/C	LOS	
College Acres Dr	Between S. College Rd and	826	0.400	0.09	٥	
	Racine Dr	020	9,400	0.09	А	
S. College Rd	Between College Acres Dr	70 5 47	70 5 47	44 700	4.0	F
	and New Centre Dr	76,547	41,700	1.8	F	
	Between College Acres Dr	04.454	10.000		F	
Racine Dr	and New Centre Dr	21,454	10,000	2.1	F	

Zoning	Land Use	Intensity	AM Peak Hour Trips	PM Peak Hour Trips	Average Weekday 2 way Volume Trips (ADT)
Existing R-15	Single-family detached	11 units	13	12	136
Proposed MF-M(CD)	Duplexes	18 units	9	13	95
Proposed MF-M(CD)	Multi-Family	60 units	21	27	324
1	Total	78	30	40	419



	SITE INVE	ENTORY DATA					
EPARER OF THE PLAN:	PARAMOUNTE ENGINEERING, INC. 122 CINEMA DRIVE	6. PROPERTY BOUNDARY:	SEE PLAN	21. PROTEC			
	WILMINGTON, NC 28403	7. ZONING:	MF-M (CD)	22. THOROU SIDEWALKS, TI			
PLICANT NAME:	COLLEGE ACRES DEVELOPMENT, LLC 5217 MARKET STREET WILMINGTON, NC 28405	8. ADJACENT PROPERTY INFORMATION (OWNER AND ZONING):	SEE PLAN	(EXISTING OR I			
E ADDRESS:	[MULTIPLE] COLLEGE ACRES DR.	9. VICINITY MAP:	SEE MAP THIS SHEET				
	WILMINGTON, NC 28403	10. TOPOGRAPHY:	SEE PLAN				
OPERTY OWNER(S):	TEYNOR JEREMY LETAL 5006 CARLETON DR. UNIT 36 WILMINGTON, NC 28403	11. 100 YEAR FLOOD PLAIN BOUNDARY:	THIS PARCEL IS LOCATED IN FLOOD ZON WHICH IS NOT A SPECIAL FLOOD HAZARI AREA AS DETERMINED BY FEMA FLOOD PANEL 3720314700K DATED AUGUST 28, 2	D			
	THORUP PRESERVATION COMMON TR 4733 COLLEGE ACRES DR. WILMINGTON, NC 28403	12. LOCATION OF EXISTING DITCHES, CREEKS, AND STREAMS:	SEE PLAN				
	ROBO INVESTMENTS, LLC PO BOX 1489 WRIGHTSVILLE BEACH, NC 28480	13. SOILS:	BAYMEADE (Be), LEON SAND (Le), MURVILLE FINE SAND (Mu), (SEE SOILS MAP THIS SHEET)				
	HYMAN ROBERT B.	14. CAMA AEC & ASSOCIATED SETBACKS:	N/A				
	PO BOX 7905 WILMINGTON, NC 28406	15. CAMA LAND CLASSIFICATION:	URBAN				
	LEEUWENBURG CHARLES C.	16. CONSERVATION RESOURCES:	N/A				
	4749 COLLEGE ACRES DR. WILMINGTON, NC 28403 FAULK PROPERTIES, LLC	17. LOCAL, STATE, OR FEDERAL HISTORIC OR ARCHAEOLOGICAL SITE:	N/A				
	2605 TATTON DR. RALEIGH, NC 27608	18. LOCATION OF CEMETERIES, BURIAL SITES, OR BURIAL GROUNDS:	N/A				
	PRIVETTE DAVID S. SANDRA R. 4757 COLLEGE ACRES DR. WILMINGTON, NC 28403	19. SQUARE FOOTAGE OF FORESTED AREA, HABITAT, AND DOMINANT SPECIES:	N/A				
VELOPER:	COLLEGE ACRES DEVELOPMENT, LLC. 5217 MARKET STREET WILMINGTON, NC 28405	20. SECTION 404 WETLANDS AND SECTION 10 WATERS:	N/A				
DISTURBED 20 STURBED 20 STURBED 2	WWWWWWW	DEMOLI	TION SHADE LEGEND	TO BE REMOVED			
The state of the s	CUN 10 CONDO COM AREA MAG & CONDO COM AREA		EXISTING PAVEMENT TO BE EXISTING GRAVEL TO BE RE				
Маров «Са Оди то Си Оди То Си	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WWWWWWWWW	W W W W PAR# R05508-002-015 CAMPUS EDGE UN OWNERS INC D.B. 1263, P.G. 18 ZONE-R-15 LAND USE: 961-COND AREA	25			
COLLEGE RESIDENT RES CEP 16 CEP 16 CRES DR CEP 16 CRES DR CHR6	онк в онк в о	CONC.	N 85°44'07" E 355.51'	e privacy FENCE			
CHRe The CHRE	ROBO NV 15308002 000 000 000 000 000 000 000 000 00	Cit		K			

\$ OAA,

PAR# R05508-002-011-000 HYMAN ROBERT B M.B. 7, P.G. 27 D.B. 5986, P.G. 2554 ZONE-R-15 LAND USE: 10-1 FAM RES CLASS: RES-RESIDENTIAL 4745 COLLEGE ACRES DR. OHE

- FIG & FIG

EXISTING HOUSE 1-STORY BRICK FFE=40.09 GFE=38.14

PORCH

- W------

PAR# R05508-005-004-000 BALLMART LLC M.B. 7, P.G. 27 D.B. 5803, P.G. 1252 ZONE-R-15 LAND USE: 10-SINGLE FAMILY RESIDENTIAL

e#

ES.

10" VCP

PAR# R05508-005-000 DARDEN REILLY ANN LIFE ESTATE M.B. 7, P.G. 27 D.B. 1278, P.G. 1701 ZONE-R-15 LAND USE: 10-1 FAM RES CLASS: RES-RESIDENTIAL

PAR# R05508-002-012-000 LEEUWENBURG CHARLES C M.B. 7, P.G. 27 D.B. 1555, P.G. 607 ZONE-R-15 LAND USE: 10-SINGLE EAMILY DESUDENTIAL

____**•**___

EXISTING HOUSE 1-STORY/BRICK FFE=39/94 GFE=37.97

POPC

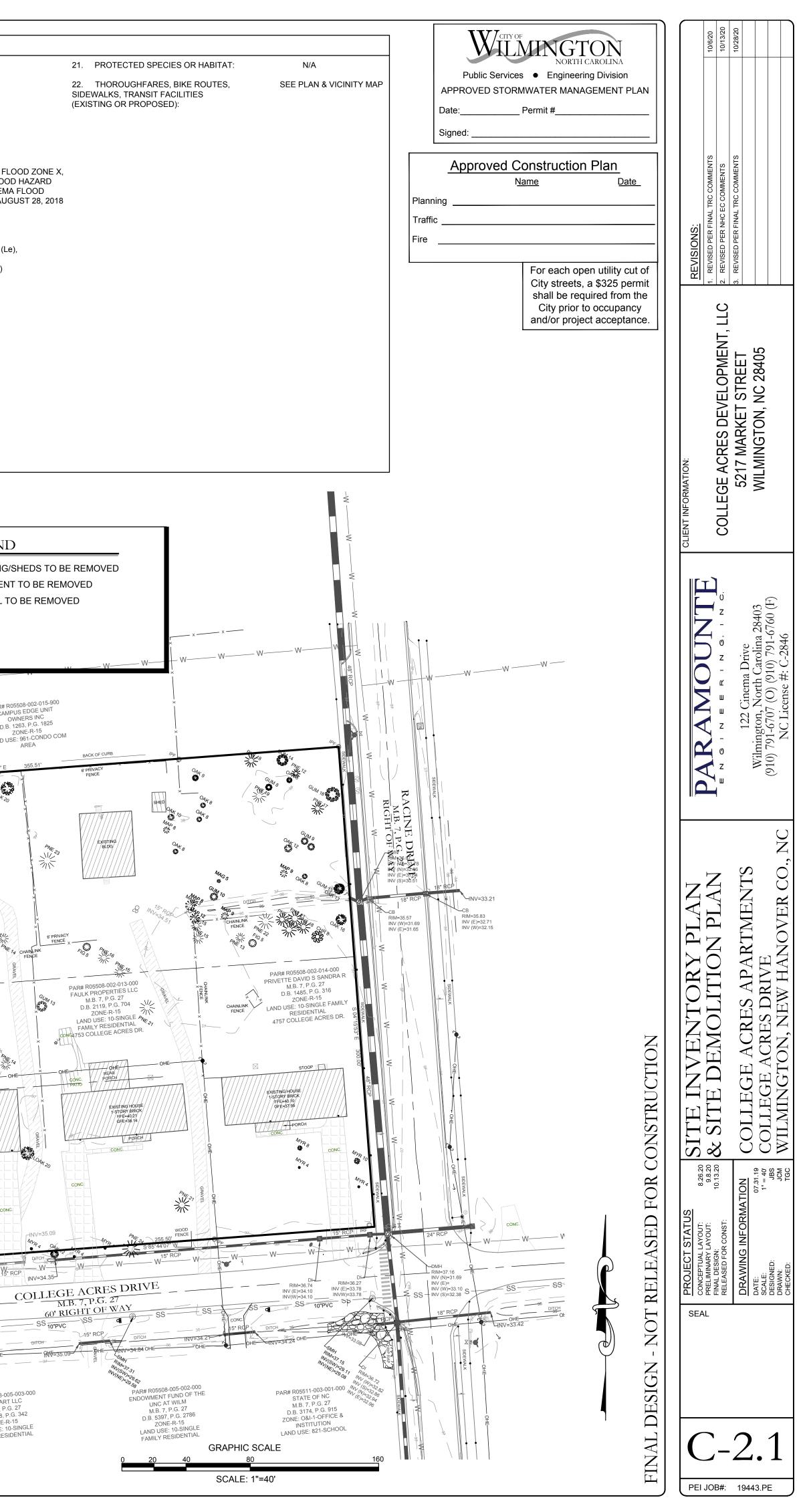
72 200

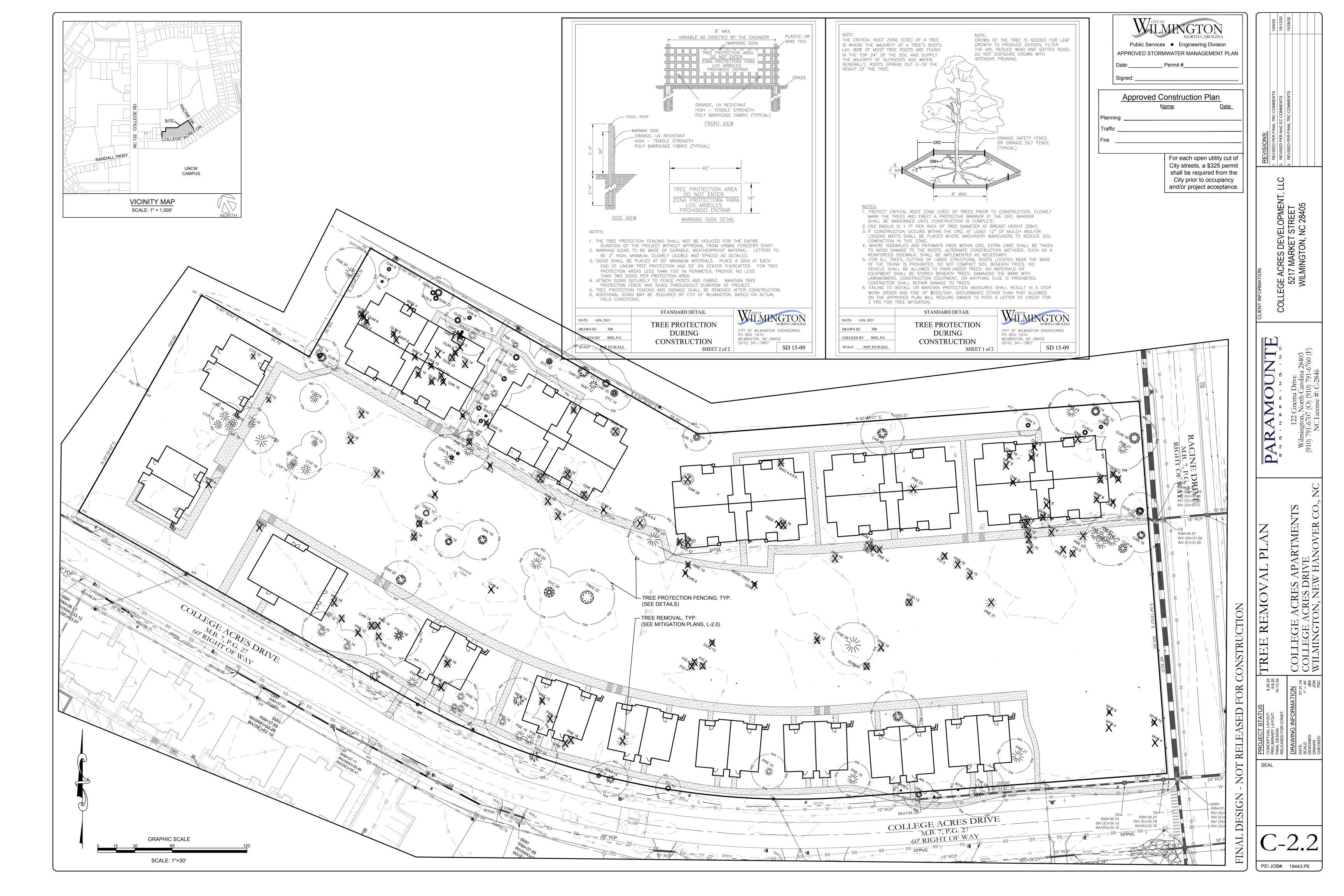
INV=34.35

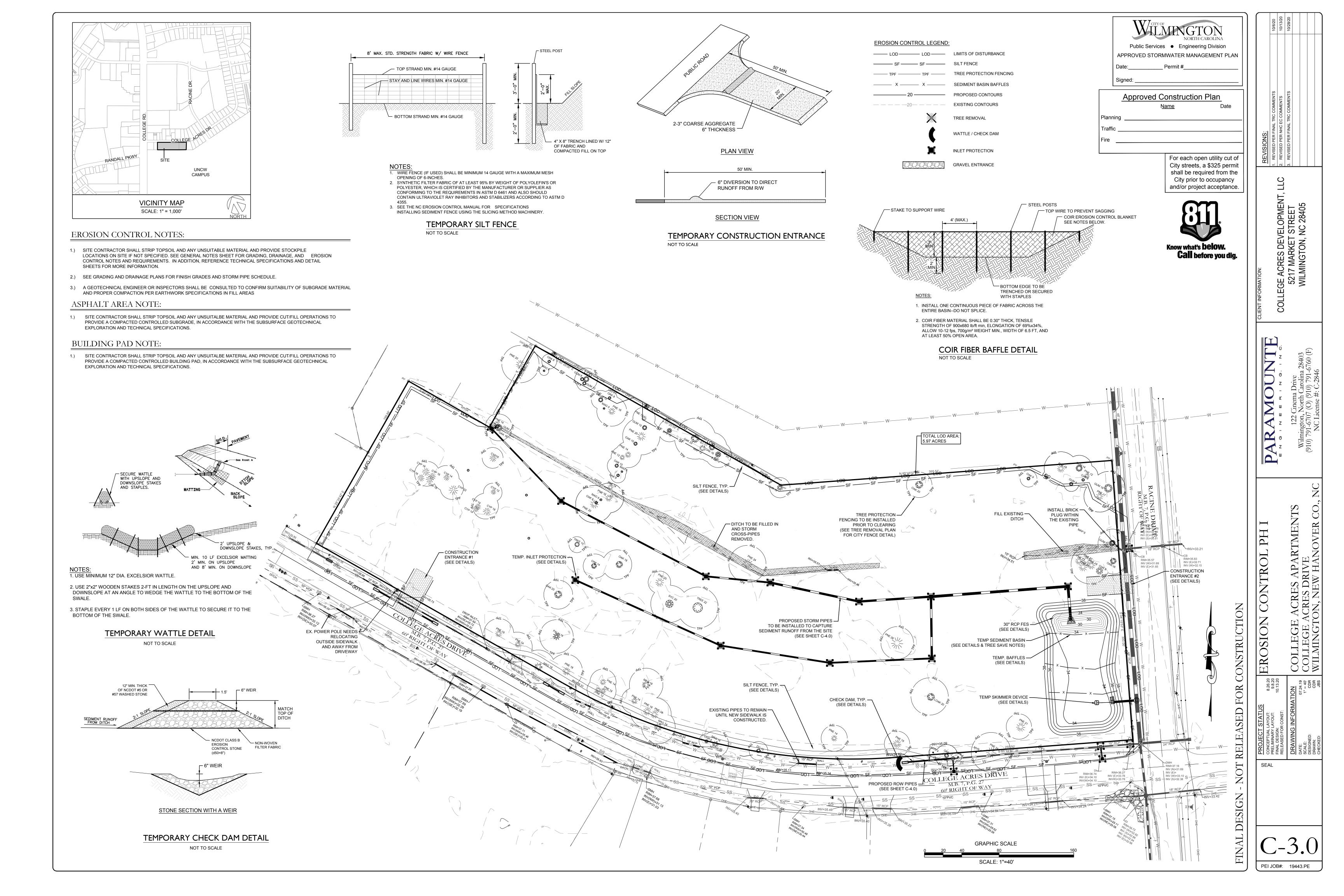
PAR# R05508-005-003-000

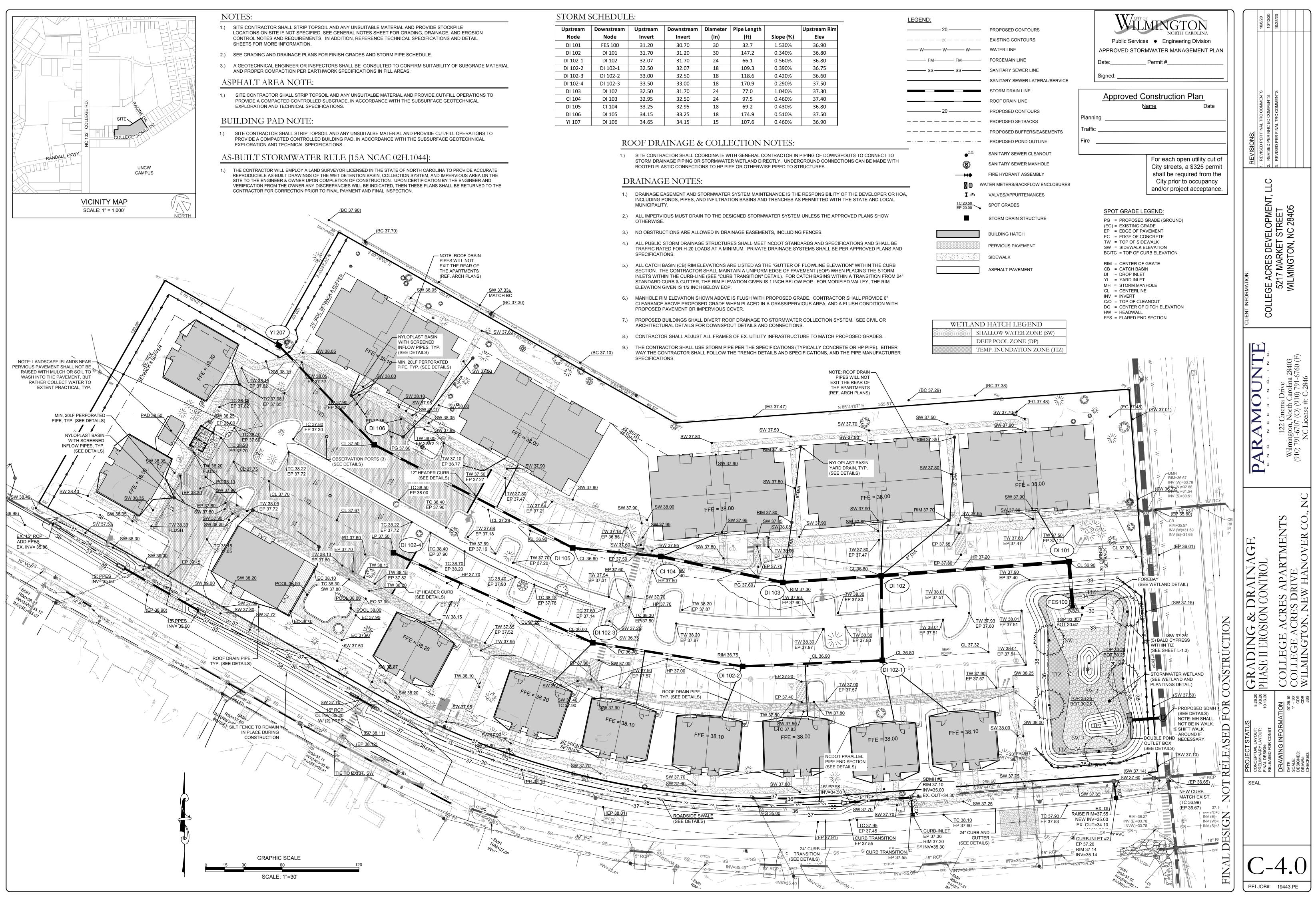
AR# R05505000 BALLMART LLC M.B. 7, P.G. 27 D.B. 5908, P.G. 342 ZONE-R-15 LAND USE: 10-SINGLE FAMILY RESIDENTIAL

15" RCF

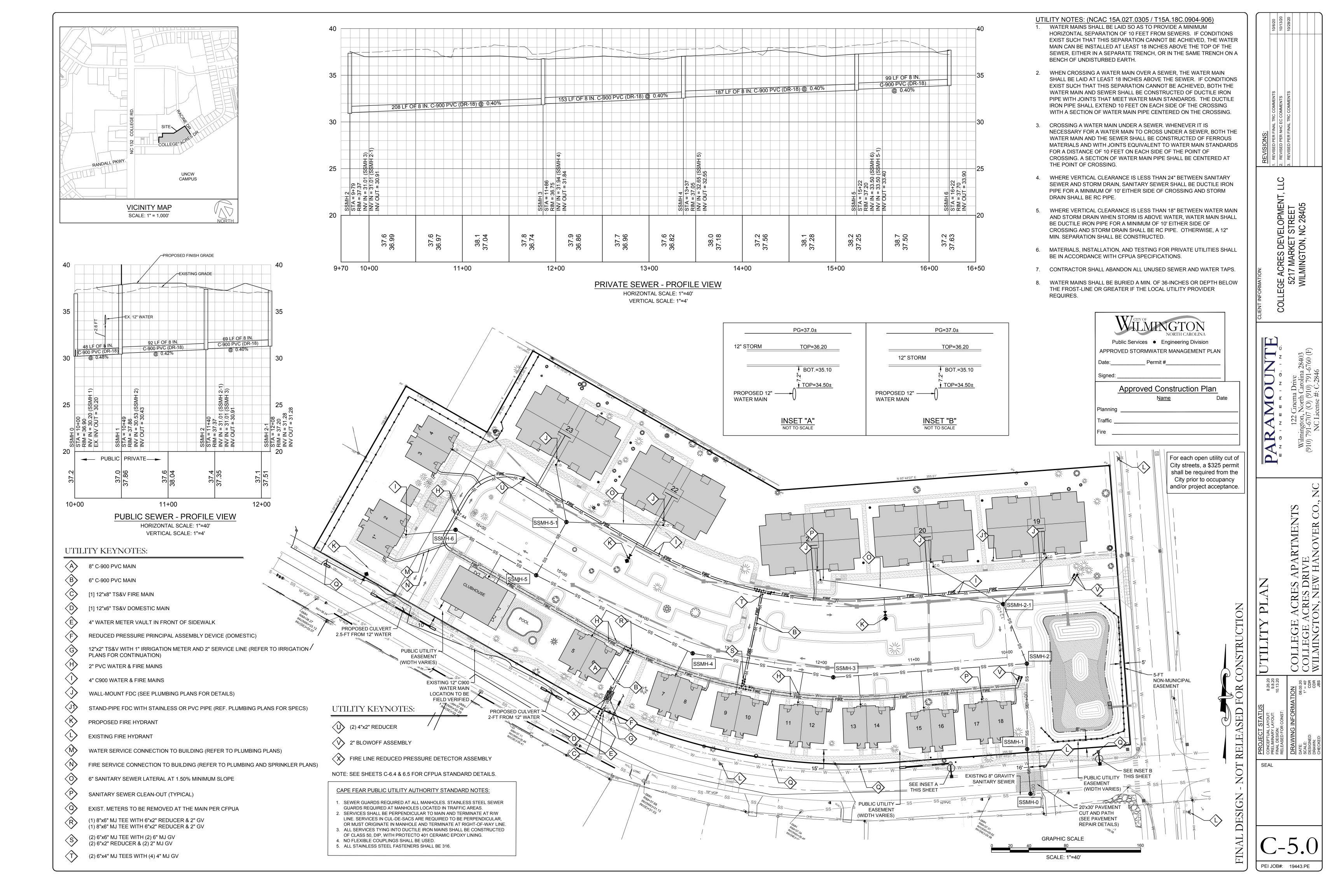


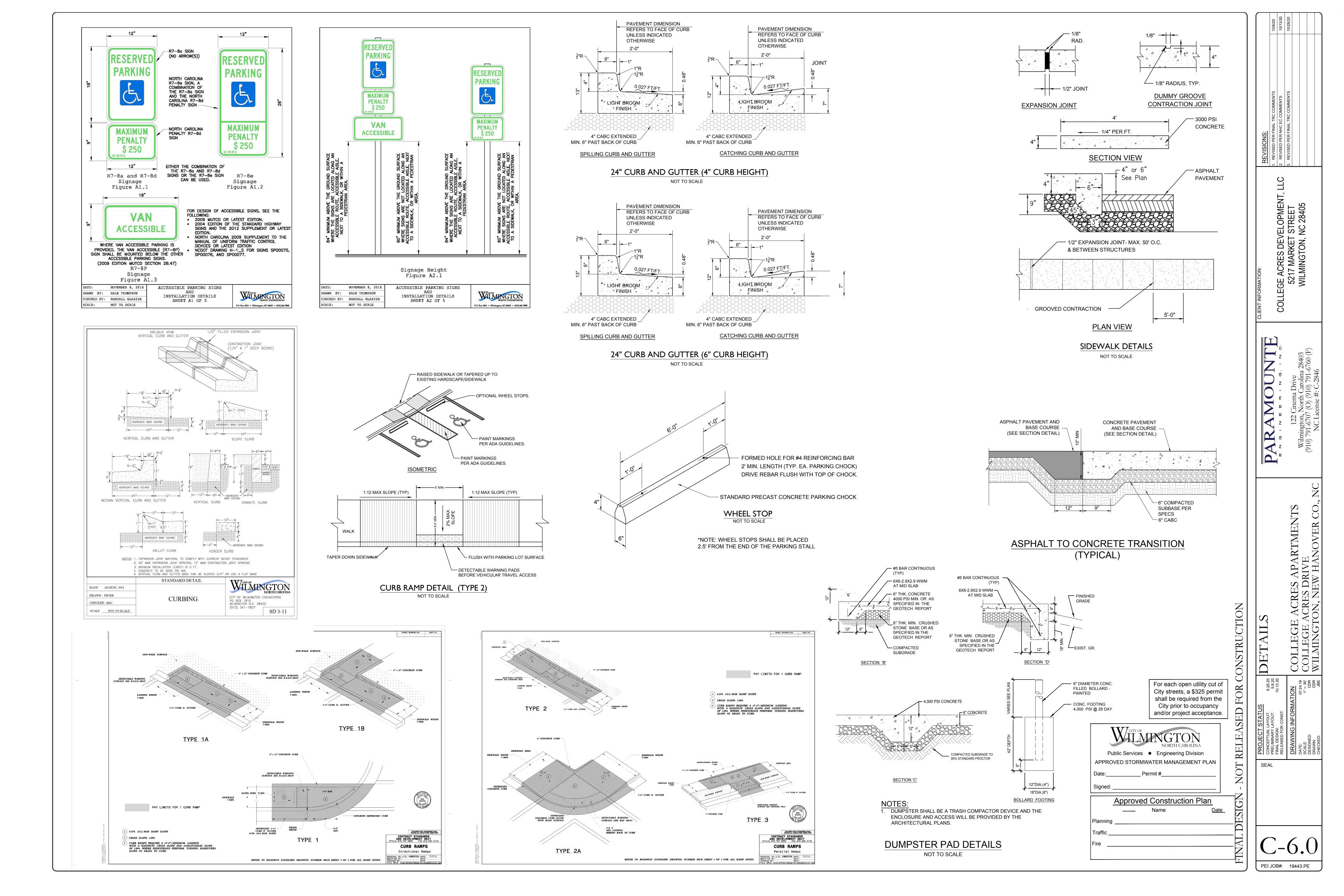


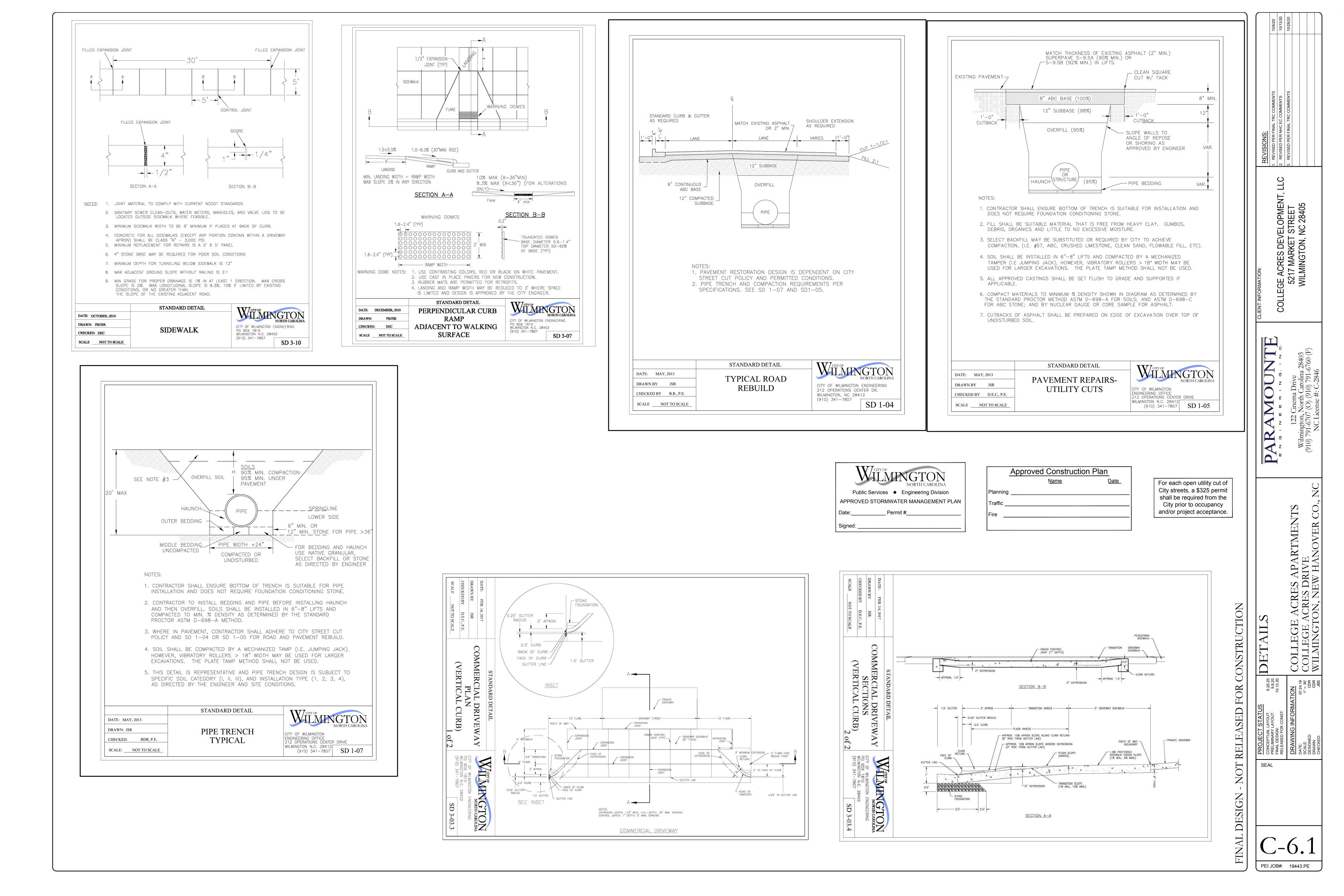


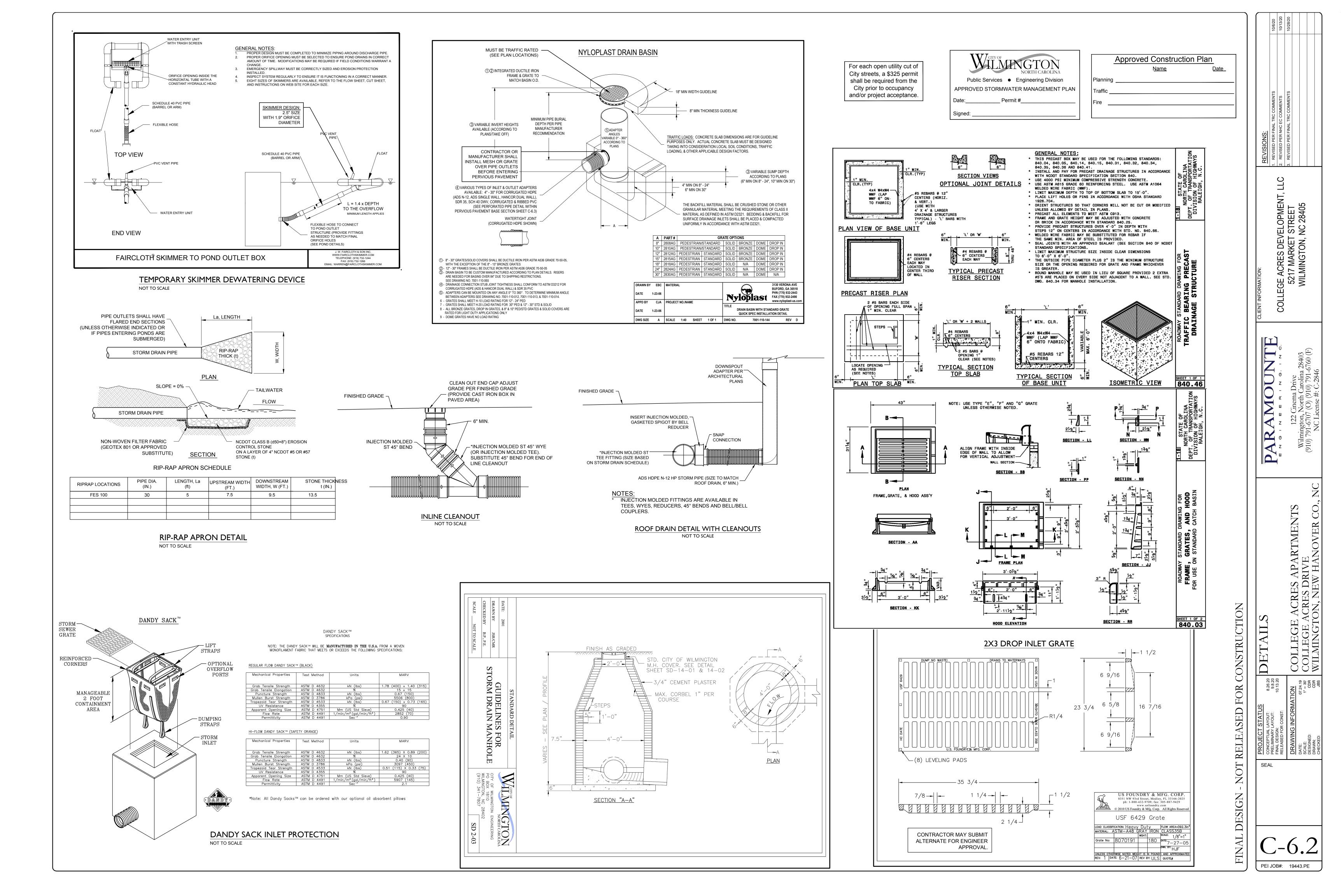


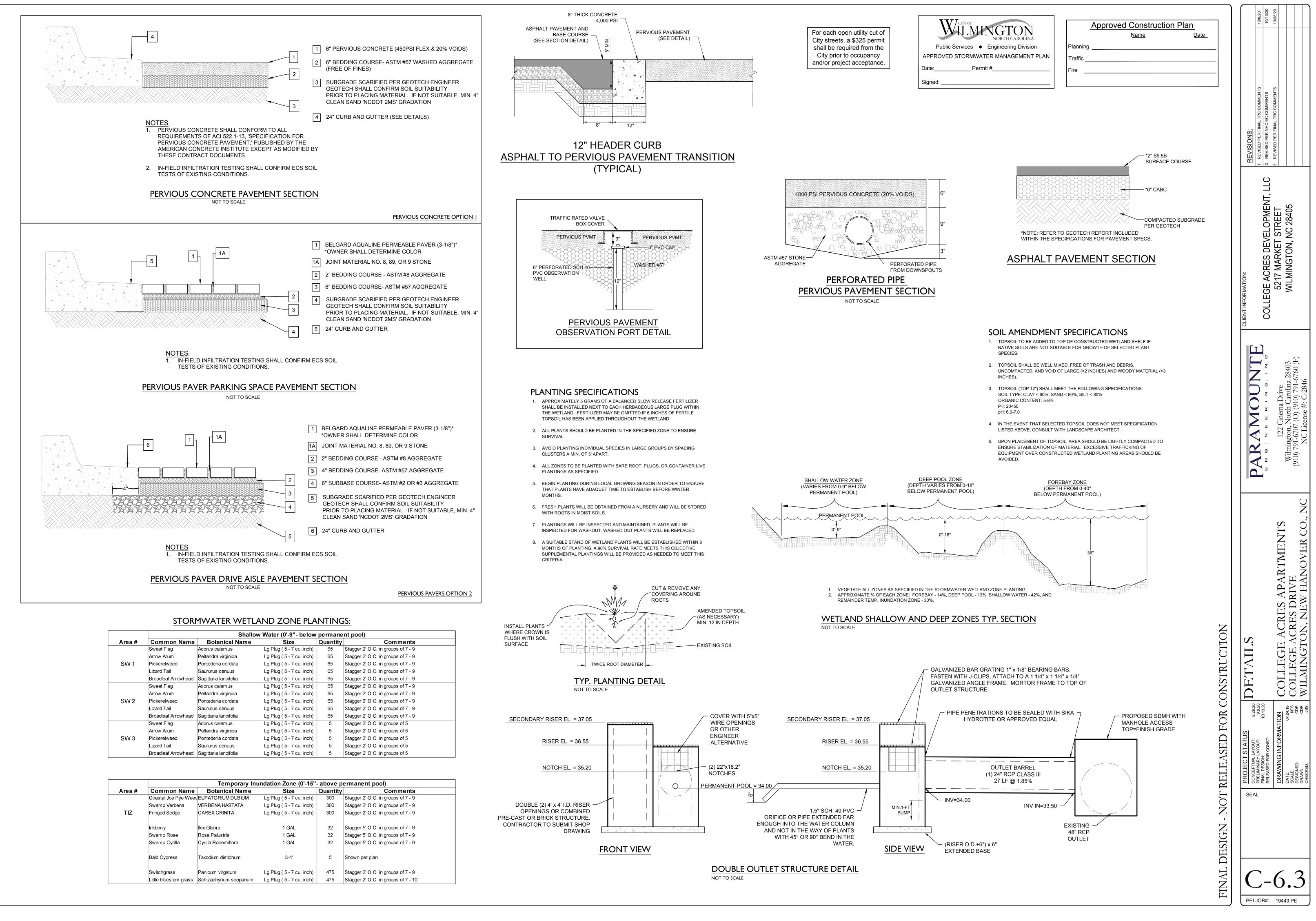
	STORM	SCHEDUL	Æ:					
VIDE STOCKPILE DRAINAGE, AND EROSION IFICATIONS AND DETAIL	Upstream Node	Downstream Node	Upstream Invert	Downstream Invert	Diameter (In)	Pipe Length (ft)	Slope (%)	Up
	DI 101	FES 100	31.20	30.70	30	32.7	1.530%	





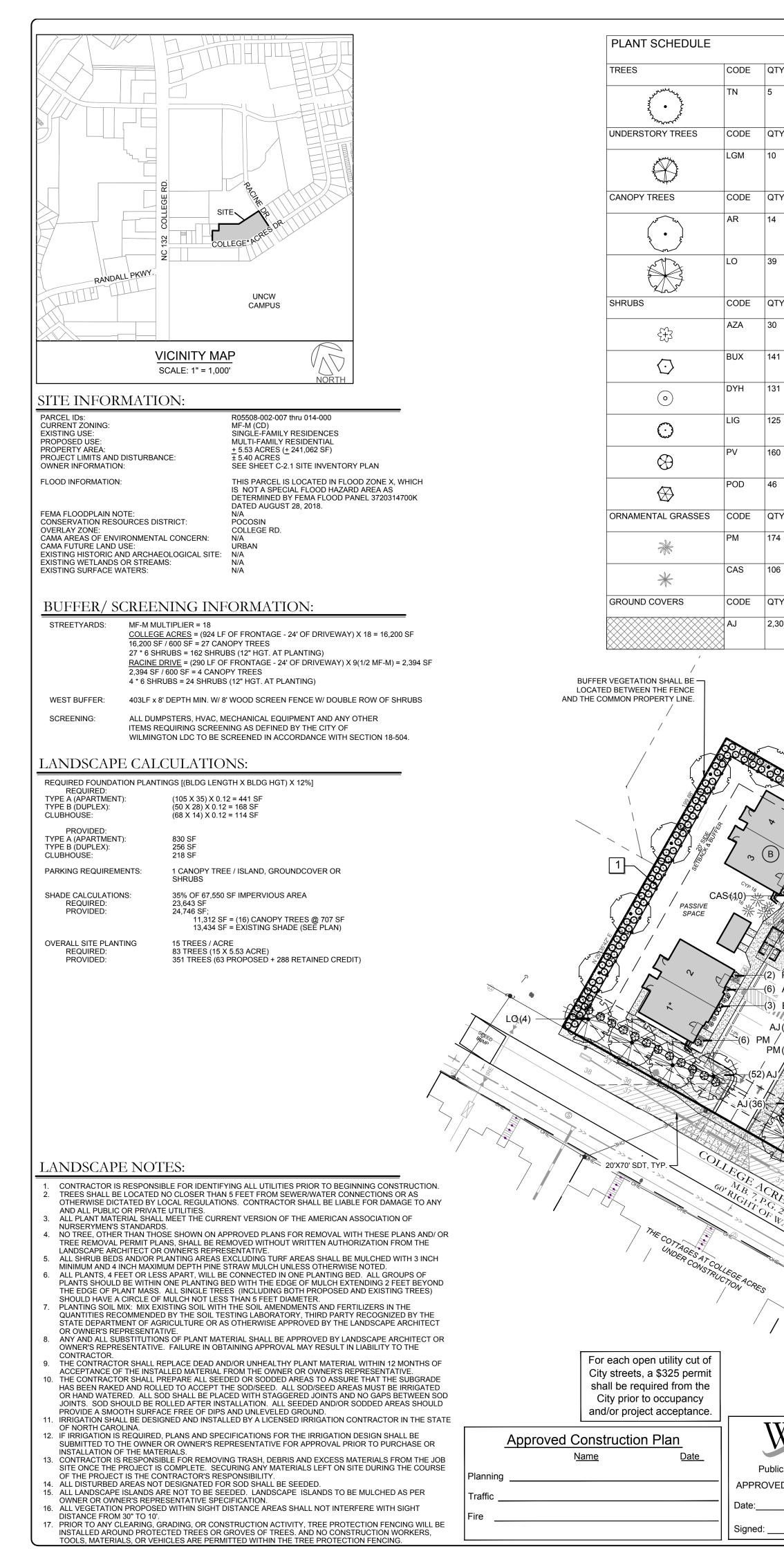






		Shallow Water (0'-9"- below permanent pool)								
Area #	Common Name	Botanical Name	Size	Quantity	Comments					
	Sweet Flag	Acorus calamus	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Arrow Arum	Peltandra virginica	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
SW 1	Pickerelweed	Pontederia cordata	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Lizard Tail	Saururus cenuus	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Broadleaf Arrowhead	Sagittaria lancifolia	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Sweet Flag	Acorus calamus	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Arrow Arum	Peltandra virginica	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
SW 2	Pickerelweed	Pontederia cordata	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Lizard Tail	Saururus cenuus	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Broadleaf Arrowhead	Sagittaria lancifolia	Lg Plug (5 - 7 cu. inch)	65	Stagger 2' O.C. in groups of 7 - 9					
	Sweet Flag	Acorus calamus	Lg Plug (5 - 7 cu. inch)	5	Stagger 2' O.C. in groups of 5					
	Arrow Arum	Peltandra virginica	Lg Plug (5 - 7 cu. inch)	5	Stagger 2' O.C. in groups of 5					
	Pickerelweed	Pontederia cordata	Lg Plug (5 - 7 cu. inch)	5	Stagger 2' O.C. in groups of 5					
	Lizard Tail	Saururus cenuus	Lg Plug (5 - 7 cu. inch)	5	Stagger 2' O.C. in groups of 5					
	Broadleaf Arrowhead	Sagittaria lancifolia	Lg Plug (5 - 7 cu. inch)	5	Stagger 2' O.C. in groups of 5					

	Temporary Inundation Zone (0'-15"- above permanent pool)									
Area #	Common Name	Botanical Name	Size	Quantity	Comments					
	Coastal Joe Pye Weed	EUPATORIUM DUBIUM	Lg Plug (5 - 7 cu. inch)	300	Stagger 2' O.C. in groups of 7 - 9					
	Swamp Verbena	VERBENA HASTATA	Lg Plug (5 - 7 cu. inch)	300	Stagger 2' O.C. in groups of 7 - 9					
TIZ	Fringed Sedge	CAREX CRINITA	Lg Plug (5 - 7 cu. inch)	300	Stagger 2' O.C. in groups of 7 - 9					
	Inkberry	llex Glabra	1 GAL	32	Stagger 5' O.C. in groups of 7 - 9					
	Swamp Rose	Rosa Palustris	1 GAL	32	Stagger 5' O.C. in groups of 7 - 9					
	Swamp Cyrilla	Cyrilla Racemiflora	1 GAL	32	Stagger 5' O.C. in groups of 7 - 9					
	Bald Cypress	Taxodium distichum	3-4'	5	Shown per plan					
	Switchgrass	Panicum virgatum	Lg Plug (5 - 7 cu. inch)	475	Stagger 2' O.C. in groups of 7 - 9					
	Little bluestem grass	Schizachyrium scoparium	Lg Plug (5 - 7 cu. inch)	475	Stagger 2' O.C. in groups of 7 - 1					



Ϋ́	BOTANICAL / COMMON NAME	SIZE	
	Taxodium distichum imbricatum `Nutans` Nutans Pond Cypress	2" cal. / 8` ht.	
Ϋ́	BOTANICAL / COMMON NAME	SIZE	
	Magnolia g. `Little Gem` Dwarf Southern Magnolia	2" cal / 5` ht.	
Ϋ́	BOTANICAL / COMMON NAME	SIZE	
	Acer rubrum `October Glory` October Glory Red Maple	2" cal. / 8` ht.	
	Quercus virginiana Southern Live Oak	2" cal. / 8` ht.	
Ϋ́	BOTANICAL / COMMON NAME	CONTAINER	
	Azalea `Red Ruffles` Red Ruffles Azalea	3 gal / 12" ht	
1	Buxus m. `Wintergreen` Wintergreen Boxwood	7 gal - 18" H.	
1	llex vomitoria `Nana` Dwarf Yaupon	3 gal / 12" ht	
5	Ligustrum japonicum `East Bay` East Bay Privet	7 gal 3` H	
)	Pittosporum t. `Variegata` Variegated Mock Orange	7 gal - 18" H.	
	Podocarpus m. maki Shrubby Yew Podocarpus	7 gal 4` H	
Ϋ́	BOTANICAL / COMMON NAME	CONTAINER	
1	Muhlenbergia capillaris Pink Muhly	3 gal	
6	Pennisetum a. `Cassian` Cassian Fountain Grass	1 gal	
Ϋ́	BOTANICAL / COMMON NAME	CONT	SPACING
09	Trachelospermum a. `Asiatic` Asiatic Jasmine	1 gal	18" o.c.

College Acres North Tree Preservation Credit								
-			Total Tree Caliper Inches		Mitigation Credit for			
Qty of Trees	Caliper Inches *	Tree Common Name	to be Preserved	Credit	Preserved Trees (# of trees)			
Noto: * All list	od as total calinor	inchos for ontiro troo	cluster or single tree trunk					
Note. An iist 1		CHERRY						
	2		2	1	1 4			
2	8	CHERRY	16	2	9			
3	14	CYPRESS	42	3				
3	16	CYPRESS	48	3	9			
3	18	CYPRESS	54	4	12			
1	22	CYPRESS	22	4	4			
1	10	DOGWOOD	10	2	2			
3	8	GUM	24	2	6			
2	10	GUM	20	2	4			
1	12	GUM	12	3	3			
1	13	GUM	13	3	3			
1	14	GUM	14	3	3			
1	18	GUM	18	4	4			
3	5	MAGNOLIA	15	1	3			
2	6	MAGNOLIA	12	2	4			
1	14	MAGNOLIA	14	3	3			
3	18	MAGNOLIA	54	4	12			
1	12	MAPLE	12	3	3			
3	4	MYRTLE	12	1	3			
5	8	ОАК	40	2	10			
1	9	ОАК	9	2	2			
2	10	ОАК	20	2	4			
1	12	ОАК	12	3	3			
1	13	ОАК	13	3	3			
1	14	ОАК	14	3	3			
2	16	ОАК	32	3	6			
1	18	ОАК	18	4	4			
3	20	ОАК	60	4	12			
1	22	ОАК	22	4	4			
1	18	PALM	18	4	4			
4	12	PINE	48	3	12			
7	14	PINE	98	3	21			
3	16	PINE	48	3	9			
2	17	PINE	34	3	6			
5	18	PINE	90	4	20			
1	19	PINE	19	4	4			
5	20	PINE	100	4	20			
2	21	PINE	42	4	8			
2	24	PINE	48	4	8			
1	28	PINE	28	4.67	5			
1	12	SYCAMORE	12	3	3			
1	14	SYCAMORE	14	3	3			
1	20	SYCAMORE	20	4	4			
1	10	UNCLASSIFIED TREE	10	2	2			
1	22	UNCLASSIFIED TREE	22	4	4			
_		ICHES TO BE RETAINED	1305	т	т			
		IGHES TO BE RETAINED	COCT	TOTAL TREE CREDITS	218			
				IGIAL INCE UREDITS	210			

SITE KEYNOTES:

1 8-FT SCREENING FENCE WITHIN BUFFER

SETBAR

PASSIVE

-(2) LGM –(26) PM

SPACE

2 4-FT DECORATIVE FENCE AROUND WETLAND (NOT REQUIRED BY CITY)

(A)

TCM

-(2) POD

(8) PM

DYH(70)-

-(6) AZA

-(25) PM

(35) A. -(26) P

- В (9) 2-STORY DUPLEXES
- A (5) 3-STORY MULTI-FAMILY
- C (1) 1-STORY AMENITY CENTER

- NOTE: LANDSCAPE ISLANDS NEAR PERVIOUS PAVEMENT SHALL NOT BE RAISED WITH MULCH OR SOIL TO WASH INTO THE PAVEMENT, BUT RATHER COLLECT WATER TO EXTENT PRACTICAL, TYP.

PM(26) AJ (36)≁ LGM(2)

∕3∠

4923 s EXISTING SHADE, TYP.

ACTIVE

SPACE

LIG (125)

AR(8)

-(7) DY⊢ -(4) POD 6¥ PM POD(2) 4(3)/ BUX ACTIVE

ÔV

93) AJ AJ (35)

SPACE

10'x115' SDT FOR PEDESTRIAN

CROSSING NO EXIST. TREES

LANDSCAPING WILL NOT INHIBIT

PEDESTRIANS CROSSING VIEW.

IN SDT, AND PROPOSED

[DESIGN SPEED = 25 MPH]

264 sf 🗟 /_(6) PM\$

-(24) BUX

SPEED BUMD

PV(16

VILMINGTON Public Services

Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN Permit #

	Individ	ual Trunk	College Acres Nort	h Removal & Require	ed Mitigation	1		Total Qty. of		10/6/20	10/13/20	10/28/20	
Qty of Trees Caliper Inches* Note: * All listed as total diameter at breast height	Calip Individu caliper inch	ers AND ual Cluster	Tree Common Name	City Tree Type Classification unk caliper in compliance w	Total Cal. Inches to be Removed vith City of Wilmington L	% Mitigation and Developm		Mitigation Trees Required					
-	ents: It is ar	iticipated t	hat all trees will be removed f REGULA	or essential site improvem ATED & SIGNIFICANT TREES		trees require r	nitigation						
1	12 12 7 7 10 10		CYPRESS DOGWOOD DOGWOOD	conifer ornamental flowering ornamental flowering	36 7 10	100% 100% 100%	yes no yes	24 2 3					
	4 4 5 5 10 10		MAGNOLIA MAGNOLIA MAGNOLIA	ornamental flowering ornamental flowering ornamental flowering	16 10 10	100% 100% 100%	no no yes	5 3 3		ENTS	VTS	IENTS	
1 1 1 2	12 12 20 4 4	6 6	MAGNOLIA MAGNOLIA MAPLE (RED MAPLE)	ornamental flowering ornamental flowering	12 20	100% 100%	yes yes	4 7		COMN	OMMEN	COMIN	
2 1 1	8 8 9 9 12 12		MAPLE (RED MAPLE) MAPLE (RED MAPLE)	hardwood hardwood hardwood	32 18 12	100% 100% 100%	no no no	11 6 4		INAL TR	HC EC 0	INAL TR	
	13 13 3 3 4 4		MAPLE (RED MAPLE) MYRTLE MYRTLE	hardwood ornamental flowering ornamental flowering	13 3 12	100% 100% 100%	no no no	4 1 4		ONS: DPER FI	REVISED PER NHC EC COMMENTS	D PER FI	
-	8 8 10 10 8 8		MYRTLE MYRTLE OAK	ornamental flowering ornamental flowering hardwood	8 10 40	100% 100% 100%	yes yes no	3 3 13		REVISIONS: REVISED PER FINAL TRC COMMENTS	REVISE	REVISED PER FINAL TRC COMMENTS	
2 1	10 10 12 12 14 14		OAK OAK OAK	hardwood hardwood hardwood	60 24 14	100% 100% 100%	no no no	20 8 5				ю.	
2 1	16 16 18 18 20 20		OAK OAK OAK	hardwood hardwood hardwood	32 36 20	100% 100% 100%	no no no	11 12 7			LLC		
	26 26		ОАК	hardwood	26 Total Category 1 Significa	100% nt Trees Mitiga	yes ation Required	9 : 56			OPMENT,	. L	C
Category 2 (75% Mitigatio						1		1			PME	REET	040
1 1	16 16 18 18 4 4		CEDAR CEDAR FIG	conifer conifer ornamentalflowering	32 18 4	75% 75% 75%	no no no	8 5 1			ĨELO	STR	
2	5 5 6 6 8 8		FIG FIG GUM	ornamentalflowering ornamentalflowering hardwood	10 12 48	75% 75% 75%	no no no	3 3 12			ACRES DEVEL	KET	ž O
3 1	9 9 10 10 12 12		GUM GUM GUM	hardwood hardwood hardwood	18 30 24	75% 75% 75%	no no no	5 8 6			RES	MAR	
1 1 3 1	12 12 13 13 16 16 12 12		GUM GUM PECAN	hardwood hardwood hardwood	13 48 12	75% 75% 75% 75%	no no no	3 12 3		TION:	ACI	5217 MARKET STE	
	_,,			al Category 2 Regulated Tre	Tota	l Category 2 Sig	gnificant Trees	0		-ORMA	EGE.	2	>
Category 3 (50% Mitigatio	on) 4 4 6		CHERRY (BLACK CHERRY) CHERRY (BLACK CHERRY)	ornamental flowering ornamental flowering	<u>8</u> 18	50% 50%	no	1		CLIENT INFORMATION:	COLLEGE		
	10 10 14 14	5 4 4	CHERRY (BLACK CHERRY) CHERRY (BLACK CHERRY) CHERRY (BLACK CHERRY) CHERRY (BLACK CHERRY)	ornamental flowering ornamental flowering ornamental flowering ornamental flowering	18 10 14 23	50% 50% 50% 50%	no yes yes	2 2 4		CLIE	_		
3 1 1 1	12 12 13 13	5 4 4	PINE (LOBLOLLY) PINE (LOBLOLLY)	conifer conifer	36 13	50% 50%	yes no no	6 2			ר		
3 1 6 1	14 14 15 15 16 16		PINE (LOBLOLLY) PINE (LOBLOLLY) PINE (LOBLOLLY)	conifer conifer conifer	98 45 96	50% 50% 50%	no no no	16 8 16			o	~	Ē
1 1 1 2	18 18 19 19 21 21		PINE (LOBLOLLY) PINE (LOBLOLLY) PINE (LOBLOLLY)	conifer conifer conifer	54 19 21	50% 50% 50%	no no no	9 3 4			Z -	7 840	791-6760 (F) 2846
	22 22 23 23		PINE (LOBLOLLY) PINE (LOBLOLLY)	conifer conifer	44 23 Tot:	50% 50% al Category 3 Si	no no gnificant Trees	7 4 5 8		Б	0 Z	1 Drive Carolina 28403	
Category 4 (25% Mitigatio	on)			al Category 3 Regulated Tre	ees To Be Removed with	Essential Site	mprovements	87			– מ	Cinema Drive North Carolin	-1 O +F
_	4 4 5 5 16 16 16		UNCLASSIFIED TREE UNCLASSIFIED TREE PALM		8 5 16	25% 25% 25%	no no no	1 0 1		Σ	Ш Ш	2 Cinema North	01-6707 (O) NC License
			Tot	al Category 3 Regulated Tre			gnificant Trees mprovements				Z -	122 inoton	(910) 791-6707 NC Lice
					ificant Tree Mitigation (E on Trees Required on Si	Tot	al Tree Credits	: 218			0 Z	Wilm	910) 7
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				<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×		TR					ZC
5°44'07" E 355.51'			04	to C		8						TS	CO., NC
Og.	n an	<u></u>			Mo GUM Ban		RA					TMENTS	
p - FC						2	ACINE D M.B. 7, P.G RIGHT OF					^T ME	E ANOVER
		100 A		19			E DH 7, p.G. 1 ⁷ OF V			\mathbf{Z}		RT	
20							DRIVE p.G. 27 pFWAY			[V]		νPA	IVE
		F.						圓		Id		ES	EW
SODCIO ANT	0000000		BUX(24)	(2) POD		96	6 sf			PE		RE	, ^{ES}
BUX AJ LGI	(24) I(36) M(2) —	6	► PM (25)	AJ (27)	(59)				NO	AI		AC	NCR
(2) PO			(2) LGM	—(1) LO A3 —(75) AJ					CTI	SC		ЭE	GT
2)AJ			terre - et		38		(4) AR	(RU	Q		LE(HNG HC
	LO (2) X ² ,							DNSTRU			[]])LL ILN
(72) AJ	AJ(1	28)		J. J					NO	I,		Ŭ	М С М С
			AJ(64) LO(1)	346 €f			2		JR C	8.26.20 9.8.20	10.13.20	<mark>NC</mark> 1.20	1" = 40' JBS JRC JBS
3 SF1400 7 sf 7 POD (2	2) + 1	POD	(4)		بسر				FO	S		<u>MATIC</u>	-
5) AJ) LO PM(8)		DYH CAS((/) 24)	or Juneau	3		(5) †		SED	PROJECT STATUS CONCEPTUAL LAYOUT: PRELIMINARY LAYOUT:	:ONST:	INFORMATION 09.01	
AZA (6) BUX (6)							(D)	3	SAS	PROJECT STATU CONCEPTUAL LAYOUT: PRELIMINARY LAYOUT:	D FOR C	G	
		ש	18						RELF		FINAL DE	DRAWING DATE:	SCALE: DESIGNED: DRAWN: CHECKED:
15 16	; 	17					4		T R	SEAL	<u>т</u> Қ	ם ום	
1000		t/mà ZLr	ELE ELECTION W		× × / c ×								
		CRES	DRIVE				-		ilG]				
<u> </u>	EGE A <u>M.B.</u> 7, <u>' RIGH</u>	Р. <u>G</u> . 2 Г ОГ W	<u>IAY</u>	10+10 Ho					DES				
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					SCA	LE: 1"=40	1		Ĩ.	PEI JC	B#:	19443	.PE

RANDALL P		UNCW CAMPUS			
	VICINITY MA SCALE: 1" = 1,00				/
SITE INFORM	ATION:		NORTH		A A A
PARCEL IDS: CURRENT ZONING: EXISTING USE: PROPOSED USE: PROPERTY AREA: PROJECT LIMITS AND DIST OWNER INFORMATION: FLOOD INFORMATION: FLOOD INFORMATION: FLOOD INFORMATION: FEMA FLOODPLAIN NOTE: CONSERVATION RESOURC OVERLAY ZONE: CAMA AREAS OF ENVIRON CAMA FUTURE LAND USE: EXISTING HISTORIC AND A EXISTING WETLANDS OR S	CES DISTRICT: IMENTAL CONCERN: ARCHAEOLOGICAL SITE:	IS NOT A SPECIAL FLC DETERMINED BY FEMA DATED AUGUST 28, 20 N/A POCOSIN COLLEGE RD. N/A URBAN	ENCES NTIAL 2 SF) INVENTORY PLAN TED IN FLOOD ZONE X, WHICH OD HAZARD AREA AS . FLOOD PANEL 3720314700K		
EXISTING SURFACE WATE		N/A			
TOTAL OPEN SPACE PROVIDED (76,548 SF OF RECREAT RECREATION AREA REQUIRED: 50% O RECREATION AREA PROVIDED: ACTIV TOTAL PASSI	F TOTAL PROPERTY SI - REQ'D = 241,062 x 0.35 - REQ'D = 84,371 SF D = 88,845 SF TON SPACE & 12,297 SF PF OPEN SPACE = 42,18 E SPACE (AMENITY, LC - = 28,181 SF VE SPACE (BUILDING Y	F OF REMAINING UNCOV	'ERED LANDS) N YARDS)		
LEGEND: ACTIV TOTAL PASSI TOTAL REMA	VE SPACE (BUILDING Y _ = 48,367 SF	OOP WALKS, & TWO OPE 'ARDS, TWO OPEN YARI	DS & WETLAND)		
Planning	City stree shall be City prid	<u>Date</u>	Public Services Enginee APPROVED STORMWATER MAN	H CAROLINA ering Division IAGEMENT PLAN	
			Date: Permit # Signed:		
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