

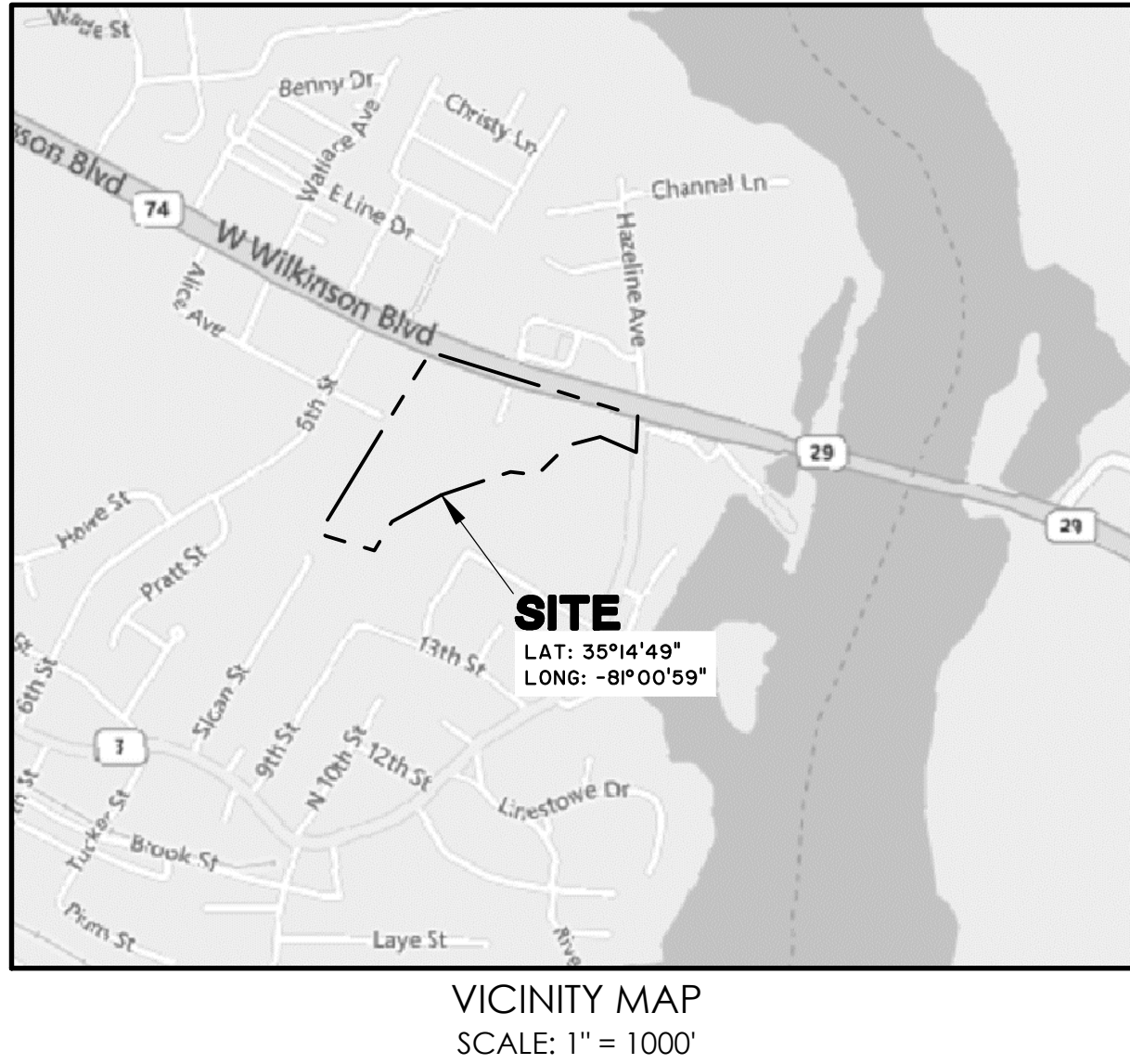
WATER LEGEND		
DESCRIPTION	EXISTING	PROPOSED
WATER MAIN		
SINGLE SERVICE LATERAL		
DOUBLE SERVICE LATERAL		
VALVE AND BOX		
FIRE HYDRANT W/ VALVE & BOX		
POST HYDRANT		
REDUCER		
BACKFLOW PREVENTOR		
CROSS		
TEE		
90° BEND - HORIZONTAL		
45° BEND - HORIZONTAL		
22-1/2° BEND - HORIZONTAL		
8-1/2° BEND - HORIZONTAL		
BEND - VERTICAL		
CAP		

DRAINAGE LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PIPE		
DITCH		
CONTROL STRUCTURE (CS)		
DITCH INLET (DI)		
GRATE INLET (GI)		
HOODED INLET (HI)		
JUNCTION BOX (JB)		
MANHOLE (SOMH)		
ROLL CURB INLET (RCI)		
ROOF INLET (RI)		
VALLEY INLET (VI)		
YARD INLET (YI)		
BEVELED END SECTION (BES)		
END SECTION (ES)		
FLARED END SECTION (FES)		
8-1/2° BEND - HORIZONTAL		
22-1/2° BEND - HORIZONTAL		
45° BEND - HORIZONTAL		
90° BEND - HORIZONTAL		
CLEANOUT		
PLUG		

ABBREVIATIONS			
DBL	DOUBLE	FM	FORCE MAIN (SANITARY SEWER)
BOT	BOTTOM	FP	FINISH PAD
CB	CATCH BASIN	FR	FRAME
CI	CURB INLET	GI	GRATE INLET
CO	CLEAN OUT	GV	GATE VALVE
CPP	CORRUGATED PLASTIC PIPE	HDPE	HIGH DENSITY POLYETHYLENE
DBL	DOUBLE	HD	HOOD ELEVATION
DI	DITCH INLET	HI	HOODED INLET
DIP	DUCTILE IRON PIPE	INV	INVERT ELEVATION
EL	ELEVATION	JB	JUNCTION BOX
ES	END SECTION	LF	LINEAR FEET
FES	FLARED END SECTION	MAX	MAXIMUM
FG	FINISH GRADE	MIN	MINIMUM
FH	FIRE HYDRANT	MH	MANHOLE
		OC	ON CENTER
		PC	POINT OF CURVE
		PH	POST HYDRANT
		PT	POINT OF TANGENT
		PVC	POLYVINYL CHLORIDE
		RCR	REINFORCED CONCRETE PIPE
		ROL	ROLL CURB INLET
		RCR	REINFORCED CONCRETE PIPE
		RI	ROOF INLET
		RJP	RESTRAINED JOINT PIPE
		R/W	RIGHT-OF-WAY
		SD	STORM DRAINAGE
		SDMH	STORM DRAINAGE MANHOLE
		SF	SQUARE FEET

SEWER LEGEND		
DESCRIPTION	EXISTING	PROPOSED
GRAVITY PIPE		
MANHOLE		
CLEANOUT		

OTHER UTILITIES LEGEND	
DESCRIPTION	EXISTING
NATURAL GAS	
TELEPHONE	
UNDERGROUND TELEPHONE	
ELECTRICITY	
UNDERGROUND ELECTRICITY	



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ARCHITECTS

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GENERAL NOTES (APPLY TO ALL CIVIL WORK)

- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION.
- CONTRACTOR SHALL PHYSICALLY VERIFY PLANT LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION VIA USE OF TEST PITS OR SOFT DIGS.
- PROTECT ALL EXISTING UTILITIES AND CONSTRUCTION TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.
- ALL EXISTING SURFACES TO REMAIN OR NEW WORK, THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO MATCH EXISTING ADJACENT SURFACES.
- BEFORE YOU DIG, STOP. CALL THE NC ONE-CALL CENTER AT 811 AND COORDINATE LOCATION OF PUBLIC UTILITIES.
- NO SOIL DISTURBANCE OR COMPACTION, STOCK PILING OF SOIL, OR OTHER CONSTRUCTION MATERIALS, VEHICULAR TRAFFIC, OR PARKING OR STORAGE OF HEAVY EQUIPMENT ARE ALLOWED WITHIN THE CRITICAL ROOT ZONE OF PROTECTED TREES. NO WORK SHALL BEGIN UNTIL TREE PROTECTION BARRICADES HAVE BEEN INSTALLED. BARRICADES TO REMAIN UNTIL AFTER ALL DEVELOPMENT ACTIVITIES ARE COMPLETED.
- STORM DRAINAGE STRUCTURES AND SANITARY SEWER MANHOLE COORDINATES ARE LOCATED AT CENTER OF GRATE OR MANHOLE. ALL LINEAR FOOTAGE OF ALL UTILITY PIPES SHOWN ARE APPROXIMATE. ACTUAL INSTALLED QUANTITIES MAY VARY. PIPE LENGTHS PROVIDED ARE HORIZONTAL MEASUREMENTS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTHS THAT TERMINATE WITH A FLARED END SECTION INCLUDE THE LENGTH OF THE FLARED END SECTION.
- CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE WORK SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES, DRAINAGE GRATES, VALVE BOXES, VAULT LIDS, ETC. AS REQUIRED TO MATCH FINISHED GRADES. AGENTS INSTALLING ALL OTHER UTILITIES SHALL BE RESPONSIBLE FOR MATCHING FINISH GRADE WITH ANY NEW SURFACE STRUCTURE OR SURFACE ACCESS SERVING THEIR INSTALLED FACILITIES.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED UNDER THESE CIVIL PLANS (ELECTRIC, TELEPHONE, GAS, STEAM, CABLE, ETC.) AND ALLOW FOR THEIR OPERATIONS AND CONSTRUCTION TO BE PERFORMED. ALL PLANNED AND EXISTING UTILITIES ROUTINGS AND DEPTHS SHALL BE COORDINATED PRIOR TO ANY INSTALLATIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCDOT, NCEC, AND LOCAL STANDARDS WHEN SPECIFICATIONS ARE IN CONFLICT, THE STRICTER SPECIFICATION SHALL BE HELD.
- RM ELEVATIONS GIVEN ON THESE PLANS ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. ACTUAL RM ELEVATIONS SHALL BE ADJUSTED BY CONTRACTOR TO MATCH FIELD CONDITIONS. THE TOP 12" OF ALL NEW CONCRETE STRUCTURES SHALL BE BRICK CONSTRUCTION OR OBTAINED WITH PRECAST GRADE RINGS TO ALLOW FOR ADJUSTMENT AS NECESSARY. STRUCTURES SHALL BE ADJUSTABLE +/- 12" FROM THE RM ELEVATION PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- ALL SHORING SHALL BE IN ACCORDANCE WITH OSHA TRENCHING STANDARDS, PART 1926 SUBPART P, AS AMENDED.
- ALL LANE OR ROAD CLOSURES THAT ARE REQUIRED SHALL FOLLOW THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS FOR TRAFFIC CONTROL MEASURES (MUTCD).

EROSION CONTROL NOTES:

- THE GRADING CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING BEYOND THE DENIED LIMITS SHOWN ON THE PLANS. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL EROSION SEDIMENT AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND NOT BEFORE ALL AREAS DRAINING TO THESE FACILITIES ARE SUFFICIENTLY STABILIZED. CONTRACTOR SHALL REPAIR AND STABILIZE ALL AREAS WHERE TEMPORARY EROSION CONTROL MEASURES WERE REMOVED AND REMAIN VIGILANT IN CARE AND MONITORING UNTIL ALL AREAS ARE FULLY STABILIZED.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPARTMENT OF AGRICULTURE, AND ALL LOCAL STANDARDS. WHEN SPECIFICATIONS ARE IN CONFLICT, THE STRICTER SPECIFICATION SHALL BE HELD.
 - LOCATE ANY STOCKPILED TOPSOIL OR SUBSOIL WITHIN THE DENIED LIMITS AND ABOVE THE SEDIMENT BASINS. FOR SMALL DISTURBED AREAS WITHOUT A SETTLING BASIN, ALL DISTURBANCES AND STOCKPILES SHALL BE WITHIN THE PERIMETER SILT FENCE.
 - REFER TO SHEET C31 FOR GRADING AND STORM DRAINAGE INFORMATION.
 - INLET PROTECTION IS REQUIRED FOR ALL INLETS LOCATED WITHIN THE WORKING AREA AND ANY INLETS DIRECTLY DOWNSTREAM WHICH COULD BE IMPACTED.
 - INLET PROTECTION IS REQUIRED FOR ALL PHASES OF THE PROJECT AND UNTIL THE DISTURBED AREA IS FULLY STABILIZED.
 - THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PREVENT TRACKING OF MUD/SOIL ONTO ADJACENT ROADWAYS. ANY MUD/SOIL TRACKED ONTO ROADWAYS SHALL BE CLEANED DAILY. CONSTRUCTION ENTRANCES SHALL BE MONITORED DAILY AND REDRESSED PERIODICALLY AS NEEDED.
 - THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION ACTIVITY REQUIREMENTS OUTLINED IN THE CURRENT NCDOT GENERAL PERMIT NCDOT 00000. ALL MONITORING, SELF-INSPECTIONS, RECORD KEEPING, AND CORRECTIVE ACTIONS MUST BE FOLLOWED AS DIRECTED.
 - ALL UTILITY AND STORM DRAINAGE EXCAVATIONS ARE TO BE CLOSED AT THE END OF EACH DAY.
 - ARGOINE DUST SEDIMENTATION MUST BE CONTROLLED ON-SITE. ALL DISTURBED AREAS ARE TO BE STABILIZED PER THE NCDOT STABILIZATION SCHEDULE. ALL AREAS OF EROSION, EROSION AND DISTURBED AREAS THAT HAVE NOT YET BEEN STABILIZED WITH A STAND OF GRASS OR MULCH, MUST BE WATERED DOWN AS NEEDED DURING DRY PERIODS TO PREVENT ARGONINE DUST MIGRATION OFF-SITE. STOCK PILES THAT ARE NOT STABILIZED SHOULD BE COVERED. WATERING EFFORTS PREVENT DUST FOR A SHORT PERIOD OF TIME AND SHOULD BE APPLIED DAILY IF NOT MULTIPLE TIMES A DAY DEPENDING ON DURATION OF DRY PERIOD AND WIND CONDITIONS.
- GRADING AND DRAINAGE NOTES
- CONTRACTOR SHALL TAKE CARE TO MAKE SMOOTH FLOWING TRANSITIONS AT NEW AND EXISTING ASPHALT TIES. SLOPE BETWEEN FIXED SPOT ELEVATIONS SHALL BE CONSTANT UNLESS OTHERWISE SPECIFIED.
 - ALL MATERIAL TYPES OF ALL PROPOSED STORM DRAINAGE PIPE SHALL BE PROPERLY BEDEDDED.
 - ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES TO TOP OF PAVEMENT OR TOP OF SOIL.

IN PLANTING/GRASS AREAS, REFER TO PAVEMENT CROSS SECTION DETAILS TO ESTABLISH CORRECT SUBBASE ELEVATION.

- NEW EARTHWORK SHALL BE BLENDED SMOOTHLY TO THE INTO EXISTING GRADE.
- ALL NEW PAVEMENT AREAS SHALL HAVE POSITIVE DRAINAGE SUCH THAT ALL RUNOFF WILL DRAIN ACROSS PAVEMENT TO NEW OR EXISTING DRAINAGE FEATURES OR SHEET FLOW OVERLAND.
- REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING AND RETAINING WALL FOUNDATION DRAIN LOCATIONS, PIPE SIZES, AND MATERIALS. REFER TO CIVIL PLANS FOR EXTENSION OF FOUNDATION DRAIN LINES FROM WALL TO OUTFALL LOCATION. ALL FOUNDATION DRAIN LINES WHICH CONNECT TO THE PROPOSED STORMWATER SYSTEM RATHER THAN DISCHARGING TO GRADE SHALL HAVE A BACKWATER VALVE AT THE TIE-IN LOCATION. A TERMINAL TYPE BACKWATER VALVE SHALL BE INSTALLED AT CATCH BASINS AND MANHOLES. REFER TO DETAIL B2/C2.3.
- ANY PROPOSED GRASSED (SEEDS) OR SOGGED, MULCHED OR PLANTING AREA SHALL BE LEFT 6" BELOW FINISHED GRADES SHOWN. THE FINAL 6" IN ALL DISTURBED AREAS SHALL BE A 6" LAYER OF TOPSOIL. BEFORE PLACING THE TOPSOIL, THE TOP 6" OF THE SUBGRADE SHALL BE UNCOMPACTED WITH ALL STONE AND CONSTRUCTION DEBRIS REMOVED. WORK THE FIRST 3" OF TOPSOIL INTO THE TOP 3" OF LOOSSED SUBGRADE BEFORE SPREADING THE FINAL 3" OF TOPSOIL. IF TOPSOIL SECTION IS INDICATED AS GREATER THAN 6" ON LANDSCAPE PLANS, FOLLOW LANDSCAPE PLANS.
- ALL DRAINAGE STRUCTURES SHALL BE GROUDED TO THE INVERT OF THE OUTFLOW PIPE TO ELIMINATE ANY SUMP CONDITION. ALL PIPE PENETRATIONS SHALL BE FLUSH WITH THE STRUCTURE WALL AND GROUTED.
- DRAINAGE STRUCTURE ORIENTATION SHALL BE AS SHOWN ON THE DRAWINGS. GRATES ARE TYPICALLY SHOWN SET SQUARE TO THE ADJACENT WALL EDGE, BUILDING FACE, OR CURB LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING THE DRAINAGE STRUCTURE AT NO ADDITIONAL COST TO THE OWNER IF SHOWN ORIENTATIONS ARE NOT OBTAINED.
- ALL ROOF LEADERS TO BE EITHER SCH. 40 PVC, SMOOTH WALL HDPE, OR DUCTILE IRON PIPE. ALL ROOF LEADERS SHALL HAVE A MINIMUM SLOPE AND MAINTAIN A 24" MIN. COVER 18" MIN. IN NON-VEHICULAR AREAS WITH SCH. 80 PVC OR DUCTILE IRON, AND 48" MIN. FOR PVC WITH VEHICULAR AREAS. REFER TO DETAIL A1/C2.3 FOR CLEANOUTS. ALL ROOF LEADERS SHALL CONNECT TO MAIN LINES WITH WYE FITTINGS.
- STORM DRAINAGE PIPING: IF NOTED AS OPTIONAL, THE CONTRACTOR MAY PROVIDE EITHER CLASS III RCP OR SMOOTH WALL HDPE. INSTALL HDPE AS PER MANUFACTURER'S RECOMMENDATIONS. BEDDING SHALL BE INSTALLED FOR ALL STORM DRAINAGE PIPE. ALL PIPE DEEPER THAN 10" SHALL BE CLASS III RCP. IF NOT NOTED AS OPTIONAL, CONTRACTOR MUST PROVIDE THE MATERIAL CALLED OUT ON THE PLANS.
- ALL SLOPES 3:1 AND GREATER AND ALL GRASSED CHANNELS AND SWALES SHALL BE STABILIZED WITH TEMPORARY EROSION CONTROL SYNTHETIC LINER FOR INSTALLATION. ADDITIONALLY, A 6" DIAMETER STRAW WATTLE SHALL BE STAKED ALONG THE CONTOUR OF THE SLOPE BEGINNING AT THE TOP OF SLOPE AND VERTICALLY SPACED AS REQUIRED.
- DRAINAGE GRATES ARE TO BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL PREVENT CONCRETE SPLASH, PAINT, OR OTHER DAMAGE FROM OCCURRING OR RESTORE/REPLACE AT COMPLETION OF PROJECT.
- TW AND BV ELEVATIONS PROVIDED REFER ONLY TO THE GRADE ELEVATION AT THE WALL, REFER TO ARCH. AND STRUCT. PLANS OR SEGMENTAL WALL SHOP DRAWINGS FOR TOTAL WALL HEIGHT ABOVE GRADE FOR PARAPETS, CAPS, SEAT WALL AND SCREEN WALL SECTIONS.
- ALL SPOT ELEVATIONS SHOWN WITH PAVED AREAS AND ALONG CURBS REPRESENT TOP OF PAVEMENT (TP) OR BOTTOM OF CURB (BC) UNLESS OTHERWISE INDICATED.

DEMOLITION NOTES

- PRIOR TO ANY DEMOLITION OR CLEARING ACTIVITY, ALL PROPOSED EROSION CONTROL MEASURES ARE TO BE INSTALLED. CLEARING OR DEMOLITION SHALL BE NECESSARY TO INSTALL THE DEVICES. IF REQUIRED BY AN ASSOCIATED EROSION CONTROL PERMIT BY NCEC OR THE LOCAL AUTHORITY, SET UP AN ON-SITE EROSION CONTROL CONFERENCE WITH THE EROSION CONTROL INSPECTOR FROM THE OFFICE REQUIRING THE CONFERENCE.
- CONTRACTOR SHALL SUPPLY DESIGNER A SITE LOGISTICS PLAN THAT LOCATES ALL FENCED IN AREAS, GATE ACCESSSES, SIGNAGE, ETC. PRIOR TO DEMOLITION.
- ALL REMOVED MATERIAL, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DEMOLITION OF THOSE ITEMS.
- ALL PAVEMENT CUTS SHALL BE MADE BY SAW CUT.
- ALL BORROW OR WASTE SOIL BROUGHT INTO OR TAKEN FROM SITE SHALL BE TAKEN FROM OR TO A PERMITTED LANDFILL OR ANOTHER PERMITTED SITE.

LAYOUT NOTES

- ALL EXPANSION JOINTS ARE TO BE SEALED. REFER TO SPECIFICATIONS.
- ALL DIMENSIONS ARE TO FACE OF CURB OR TO FINISHED FACE OF BUILDING UNLESS OTHERWISE NOTED.
- ALL CURB RADI SHALL BE 2'-6" UNLESS OTHERWISE NOTED.
- IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.
- ANY BUILDING DIMENSIONS SHOWN ARE NOMINAL. CONSULT ARCHITECTURAL PLANS BEFORE ACTUAL FIELD STAKING.
- ALL SIDEWALKS, RAMPS AND ACCESSIBLE ROUTES SHALL HAVE A 1:5% MAXIMUM CROSS SLOPE. IN NO INSTANCE SHALL THE CROSS SLOPE EXCEED 2.0% WORK WITH EXCESSIVE CROSS SLOPES SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- MAXIMUM ELEVATION CHANGE AT HANDICAP ACCESSIBLE DOORS SHALL NOT EXCEED 4" VERTICAL OR 1/2" BEVELED AT 1:12.
- NO PAVEMENT STRIPING SHALL OCCUR UNTIL AFTER PAYING HAS CURED 30 DAYS.
- ALL HANDICAP PARKING SPACES AND ACCESS AISLES SHALL MAINTAIN A MAXIMUM SLOPE OF 1/4" PER 1' IN ANY DIRECTION PER THE NC ACCESSIBILITY CODE. CONTRACTOR IS RESPONSIBLE FOR ACHIEVING POSITIVE DRAINAGE, FLAT AREAS OR AREAS OF EXCESSIVE SLOPE SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

UTILITY NOTES

- ALL WATER AND SEWER WORK TO BE PERFORMED IN ACCORDANCE WITH NC DEC AND LOCAL UTILITY

GENERAL NOTES

PROVIDER'S STANDARDS AND SPECIFICATIONS.

- REQUIRED WATER/SEWER SEPARATION: 10' LATERAL, UNLESS BOTTOM OF WATER MAIN 18" ABOVE TOP OF SEWER IN A SEPARATE TRENCH. WHEN THESE SEPARATIONS CANNOT BE MAINTAINED OR WHEN THE SEWER IS ABOVE THE WATER MAIN, BOTH THE WATER AND SEWER LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE OF 10 FT ON EACH SIDE OF THE CROSSING.
- REQUIRED SEWER SEPARATION WITH OTHER UTILITIES: SEWER BELOW UTILITY, 24" CLEAR WITH STONE BEDDING FROM 6" BELOW SEWER TO 12" ABOVE SEWER. SEWER ABOVE UTILITY: 12" CLEAR. CLEARANCES MEASURED AS NOTED FOR WATER CONFLICTS. WHEN THESE SEPARATIONS CANNOT BE MAINTAINED, THE SEWER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIAL WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE OF 10 FT ON EACH SIDE OF THE CROSSING.
- THERE SHALL BE NO TAPS, PIPING, BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER-USE APPURTENANCES CONNECTED ON THE SUPPLY SIDE OF ANY BACKFLOW PREVENTERS.
- EACH NEW BPA IS REQUIRED TO BE TESTED BY A CERTIFIED TESTER IN ACCORDANCE WITH THE LOCAL AUTHORITY PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
- REFER TO LANDSCAPE PLANS FOR ALL PROPOSED SCREENING OF ABOVE GROUND BACKFLOW PREVENTERS.
- ALL SANITARY SEWER LATERALS SHALL MAINTAIN A MIN. COVER OF 36" WITH CLEANOUTS AT 75' MAX. SPACING. MAINTAIN A MINIMUM SLOPE + 1.0% CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING CLEANOUTS. CLEANOUTS WITHIN UNIT PAVED AREAS SHALL HAVE BRASS CAPS. SEE DETAIL A1/C2.3.
- ALL SANITARY SEWER PIPE SHALL BE BEDDED IN ACCORDANCE WITH DETAIL A2/C2.3.
- ALL SEWER SERVICE LINES EXTENDED TO BUILDINGS SHALL TERMINATE WITH A CLEANOUT 5' FROM THE FACE OF THE BUILDING. THE PLUMBING CONTRACTOR SHALL MAKE THE CONNECTIONS.
- DASHED WATER AND SEWER LINES REPRESENT LINES AND CONNECTIONS TO BE INSTALLED BY THE PLUMBING CONTRACTOR.
- ALL BENDS AND INTERSECTIONS IN WATER LINES SHALL HAVE CONCRETE BLOCKING.
- ALL UNDERGROUND UTILITY LINES INCLUDING LAWN IRRIGATION LINES, THAT ARE LOCATED OUTSIDE OF THE BUILDING FOOTPRINT ARE REQUIRED TO HAVE A CONTINUOUS WARNING TAPE INSTALLED IN THE BACKFILL DIRECTLY UNDER THE UTILITY LINE 6" TO 24" BELOW FINISHED GRADE AND 6" BELOW SUBGRADE UNDER PAVEMENT SECTIONS. REFER TO SPECIFICATION DIVISION 31 FOR WARNING TAPE REQUIREMENTS.
- BOTH METALIC AND NON-METALIC PIPES, OTHER THAN GAS LINES, SHALL BE IDENTIFIED BY DETECTABLE MAGNETIC TYPE WARNING TAPE, MIN 2" WIDE, WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
- 2018 NC GAS CODE, SECTION 40417.3 TRACER: AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVEGROUND AT THE END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18AWG AND THE INSULATION TYPE SUITABLE FOR DIRECT BURY.
- ALL VALVE BOXES WITHIN YARD AREAS SHALL BE FLUSH WITH FINISHED GRADE AND PROTECTED WITH A PRECAST CONCRETE DONUT OR A FORMED CONCRETE PAD.
- ALL UNDERGROUND UTILITIES, INCLUDING IRRIGATION AND METALIC PIPE SHALL HAVE TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE TOP OF THE PIPE TAPED AT 10' MAXIMUM INTERVALS. TRACER WIRE SHALL BE BROUGHT UP AT ALL VAULTS, MANHOLES, VALVE BOXES, FIRE HYDRANTS, FREE STANDING FODS, ETC. AS SHOWN IN DETAIL B1/C2.3.
- 2018 NC PLUMBING CODE SECTION 306.2.4 TRACER WIRE. 180302 (ITEM B-12): 306.2.4 TRACER WIRE. FOR PLASTIC SEWER PIPING, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AWG AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.
- ALL NEW WATER VALVES SHALL BE CLOCKWISE TO CLOSE.
- THE MINIMUM BURIAL DEPTH FOR ALL NEW WATER AND SEWER LINES SHOWN ON THIS SHEET SHALL BE THREE FEET. PVC LINES BENEATH VEHICULAR DRIVES, ROADS, PARKING, ETC. SHALL HAVE A MINIMUM BURIAL DEPTH OF 4'.

PAVEMENT MARKINGS AND SIGNAGE NOTES

- ALL PROPOSED SIGNS SHOWN ON THESE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.
- ALL EXISTING SIGNS AND PAVEMENT MARKINGS REMOVED DURING PROJECT DEMOLITION, OR FOR REASONS OF CONFLICT, REGARDLESS OF INCLUSION ON SURVEY OR THIS PLAN, ARE TO BE REINSTALLED TO PREVIOUS LAYOUT OR TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AWG AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.
- ALL NEW SIGNS SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING THAT MEETS THE MINIMUM RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD (2009).
- ALL SIGNS SHALL BE INSTALLED WITH NEW POSTS AND HARDWARE.
- THE LATERAL OFFSET OF ALL ROADWAY SIGNS FROM FACE OF CURB TO THE EDGE OF THE SIGN SHALL BE BETWEEN 2' AND 5' (USE 3' UNLESS OBSTRUCTED). FOR AREAS WHERE THERE IS A SIDEWALK ADJACENT TO THE CURB, SET THE POST CLOSE TO THE CURB, PROVIDING A 1' LATERAL OFFSET FROM FACE OF CURB TO EDGE OF SIGN.
- ALL PAVEMENT MARKINGS SHALL CONFORM TO ALL CURRENT MUTCD STANDARDS.
- ALL PAVEMENT MARKINGS SHALL BE TWO COATS OF PAINT. ADDITIONALLY, ANY PROPOSED CROSS WALK OR STOP BAR MARKINGS SHALL BE REFLECTORIZED WITH GLASS BEADS TO CONFORM TO MUTCD PAVEMENT MARKING STDs.
- CONTRACTOR SHALL MILL ANY EXISTING MARKING SHOWN TO BE REMOVED WHERE THE PAVEMENT SURFACE WILL BE LEFT IN PLACE. EXISTING MARKINGS IN CONFLICT WITH PROPOSED MARKINGS SHALL ALSO BE MILLED.
- CONTRACTOR SHALL THE PROPOSED MARKINGS TO EXISTING MARKINGS AT PROJECT LIMITS.
- ANY PROPOSED WHITE PAVEMENT MARKINGS ON CONCRETE SHALL BE SHADOWED WITH BLACK MARKINGS, PROVIDING A 2" SHADOW MARGIN ON EACH SIDE OF THE WHITE MARKING.

TOWN OF BELMONT GENERAL NOTES:

- THE CITY OF BELMONT WILL PROVIDE PART TIME INSPECTION SERVICES FOR IMPROVEMENTS THAT ARE TO BECOME PUBLICLY MAINTAINED. THE DESIGN PROFESSIONAL AND CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION AND COORDINATION TO ENSURE ALL IMPROVEMENTS ARE INSPECTED DURING CONSTRUCTION. INSPECTOR NOT LESS THAN 48 HOURS PRIOR TO ANY PROPOSED WEEKEND WORK OR SCHEDULED EXTENDED WORK WEEKS.
- REGULAR WORKING HOURS ARE DEFINED AS 8 HOURS PER DAY BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM, MONDAY THROUGH FRIDAY, EXCLUDING CITY OF BELMONT HOLIDAYS. IF THE CONTRACTOR INTENDS TO WORK OTHER THAN REGULAR WORKING HOURS, HE SHALL SUBMIT A WRITTEN REQUEST TO THE CITY INSPECTOR NOT LESS THAN 48 HOURS PRIOR TO ANY PROPOSED WEEKEND WORK OR SCHEDULED EXTENDED WORK WEEKS.
- CONTRACTOR SHALL REIMBURSE THE CITY OF BELMONT FOR ADDITIONAL INSPECTION COSTS INCURRED AS A RESULT OF OVERTIME WORK IN EXCESS OF THE REGULAR WORKING HOURS STIPULATED IN NOTE 2. OVERTIME COSTS FOR CITY PERSONNEL SHALL BE \$75 PER HOUR.
- CONSTRUCTION MATERIALS AND METHODS SHALL BE GOVERNED BY THE CURRENT CITY OF BELMONT LAND DEVELOPMENT STANDARDS MANUAL AND THE DESIGN PROFESSIONAL'S WRITTEN SPECIFICATIONS REQUEST FOR ANY VARIANCES TO THESE STANDARDS SHALL BE SUBMITTED TO AND REVIEWED BY DESIGN PROFESSIONAL, DESIGN PROFESSIONAL SHALL, THEN MAKE FORMAL SUBMITTALS TO THE CITY FOR FORMAL APPROVAL. CONSTRUCTION WHICH DOES NOT CONFORM TO THE LAND DEVELOPMENT STANDARDS MANUAL WILL BE REJECTED.
- SHOP DRAWINGS AND MATERIAL SPECIFICATION SHEETS SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR APPROVAL. CONTRACTOR SHALL AFFIX A STAMP TO EACH SHOP DRAWING OR MATERIAL SPECIFICATION SHEET STATING THAT HE APPROVES THE ITEM AS MEETING THE DESIGN PROFESSIONAL'S SPECIFICATIONS. THE STAMP SHALL INCLUDE CONTRACTOR'S NAME, LANGUAGE REGARDING CONTRACTOR'S APPROVAL, AND IT MUST BE SIGNED AND DATED BY THE CONTRACTOR. THE DESIGN PROFESSIONAL WILL REVIEW AND APPROVE THESE DOCUMENTS PRIOR TO SUBMITTAL TO THE CITY FOR FINAL ACCEPTANCE. THE DESIGN PROFESSIONAL SHALL AFFIX HIS COMPANY'S STAMP AND SIGN EACH SUBMITTAL ITEM. CITY, AFTER REVIEW, WILL ISSUE FINAL MATERIAL AND EQUIPMENT APPROVAL.
- UPON FINAL APPROVAL OF THE PLANS BY THE CITY OF BELMONT, GASTON NORTHERN RESOURCES DEPARTMENT, NCECEN ENGINEER OF WATER QUALITY, NCECEN PUBLIC WATER SUPPLY DIVISION AND NCDOT SHALL BE APPLICABLE. THE DESIGN PROFESSIONAL SHALL SUBMIT COPIES OF ALL PERMITS ISSUED TO THE BELMONT CITY ENGINEER. AFTER RECEIPT AND VERIFICATION OF THESE APPROVALS, THE DESIGN PROFESSIONAL SHALL PROVIDE THE FOLLOWING MATERIALS TO THE CITY: THIS MEETING IS MANDATORY AND MUST BE ARRANGED THROUGH THE PUBLIC WORKS DIRECTOR. IN ATTENDANCE AT THE MEETING SHALL BE THE DEVELOPER, THE GENERAL CONTRACTOR, PRIMARY SUBCONTRACTORS, AND THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL SHALL PROVIDE THE FOLLOWING MATERIALS WITH HIS REQUEST FOR THIS MEETING-SUBCONTRACTORS, AND THE DESIGN PROFESSIONAL, THE DESIGN PROFESSIONAL SHALL PROVIDE THE FOLLOWING MATERIALS WITH HIS REQUEST FOR THIS MEETING: 1. ALL APPLICABLE PERMIT APPROVALS (3 COPIES).
- FINAL CONSTRUCTION PLANS AND SPECIFICATIONS, CLEARLY NOTED AS "RELEASED FOR CONSTRUCTION" (3 FULL SIZED COPIES AND ONE HALF SIZE COPY).
- SHOP DRAWING SUBMITTALS FOR ALL MATERIALS TO BE INCORPORATED INTO THE PUBLIC IMPROVEMENTS. THE SHOP DRAWINGS SHALL HAVE BEEN REVIEWED BY THE DESIGN PROFESSIONAL AND STAMPED AS "APPROVED" (4 COPIES).
- LIST OF ALL PARTIES INVOLVED WITH THE DESIGN AND CONSTRUCTION OF THE PROJECT, INCLUDING THE DEVELOPER AND PROJECT OWNER. LIST SHALL INCLUDE AUTHORIZED REPRESENTATIVE FOR EACH ENTITY AND FULL CONTACT INFORMATION INCLUDING ADDRESSES, 24-HOUR CELL PHONE NUMBERS, EMAIL ADDRESSES, ETC. (3 COPIES).
- CONTRACTOR MUST OBTAIN A GRADING PERMIT FROM THE BELMONT PLANNING DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION. THE CITY WILL NOT ISSUE THIS PERMIT UNTIL ALL OFF-SITE EASEMENTS HAVE BEEN OBTAINED AND RECORDED. ALL OTHER PERMITS HAVE BEEN OBTAINED WITH COPIES DELIVERED TO THE CITY ENGINEER, AND A PRECONSTRUCTION MEETING HELD. BEGINNING WORK ON THE SITE PRIOR TO THE ISSUANCE OF THE GRADING PERMIT. THE DESIGN PROFESSIONAL SHALL PROVIDE THE FOLLOWING MATERIALS WITH HIS REQUEST FOR THIS MEETING-SUBCONTRACTORS, AND THE DESIGN PROFESSIONAL, THE DESIGN PROFESSIONAL SHALL PROVIDE THE FOLLOWING MATERIALS WITH HIS REQUEST FOR THIS MEETING: 1. ALL APPLICABLE PERMIT APPROVALS (3 COPIES).
- RECORD DRAWINGS MUST BE PROVIDED IN PAPER AND DIGITAL FORMAT (AUTOCAD AND ADOBE PDF) PRIOR TO ACCEPTANCE OF THE WATER, SANITARY SEWER, AND DRAINAGE SYSTEMS FOR MAINTENANCE BY THE CITY. THE RECORD DRAWINGS FOR THIS PROJECT MUST INCLUDE SPECIFIC INFORMATION REGARDING THE LOCATION OF: 1. WATER MAINS, WATER SERVICE TAPS ON THE MAIN, VALVES, AND FIRE HYDRANTS.
- SANITARY SEWERS, MANHOLES, SEWER SERVICE TAPS ON THE SEWER.
- PUMP STATION AND FORCE MAIN.
- STORM SEWERS, MANHOLES, CATCH BASINS, SUBSURFACE DRAINS.
- DETENTION AND WATER QUALITY FACILITIES INCLUDING FIELD VERIFICATION OF BASIN VOLUMES.

- ALL EXISTING BURIED UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- ROCK IF ENCOUNTERED DURING CONSTRUCTION.
- UTILITY EASEMENTS HAVE BEEN EXECUTED AND RECORDED. IF THE LOCATIONS OF WATER AND SEWER FACILITIES ARE CHANGED DURING CONSTRUCTION, THE EASEMENT DOCUMENTS SHALL BE UPDATED AND RE-RECORDED.
- CONSTRUCTION FOR THE PLACEMENT AND COMPACTION OF FILL DIRT SHALL BE CONTROLLED AND TESTED BY A CERTIFIED GEOTECHNICAL ENGINEER. THE CITY OF BELMONT ASSUMES NO LIABILITY OR RESPONSIBILITY REGARDING THE FILLING OF THE LOTS. SLOPE RIGHTS OF WAY WILL BE MONITORED BY THE CITY INSPECTOR. THE DESIGN PROFESSIONAL SHALL SUBMIT COMPACTION TESTING RESULTS TO THE CITY INSPECTOR AS VERIFICATION THAT SPECIFIED COMPACTION IS ACHIEVED.
- ANY SPRINGS DISCOVERED DURING CONSTRUCTION OF THE IMPROVEMENTS MUST BE ACCOMMODATED BY THE EXTENSION OF THE STORM DRAINAGE SYSTEM TO PREVENT WATER FROM FLOWING OVER PUBLIC SIDEWALKS, CURBS, AND PAVEMENTS. THESE EXTENSIONS SHALL BE INCLUDED ON THE RECORD DRAWINGS.
- NO TREES MAY BE REMOVED FROM THE SITE WITHOUT FIRST IDENTIFYING TREES TO REMAIN IN THE FIELD WITH YELLOW FLAGGING. TREES PROTECTED BY PROPOSED CITY CODE SHALL BE REMOVED BY THE CITY OF BELMONT DOES NOT GUARANTEE WATER VOLUME AND WATER DISTRIBUTION SYSTEM PRESSURE.
- NO VERTICAL BUILDING CONSTRUCTION MAY PROCEED UNTIL THE WATER MAINS AND FIRE HYDRANTS ARE INSTALLED AND APPROVED FOR OPERATION BY THE NCECEN PUBLIC WATER SUPPLY DIVISION. THIS PROCESS REQUIRES COMPLETE INSTALLATION, PRESSURE TESTING OF THE WATER MAIN, DISINFECTION, ACCEPTABLE BACTERIOLOGICAL TEST RESULTS, CERTIFICATION BY THE DESIGN PROFESSIONAL, APPLICANT NOTIFICATION, AND APPROVAL BY THE NCECEN PUBLIC WATER SUPPLY SECTION FOR AUTHORITY TO OPERATE. APPROVAL, THE CONSTRUCTION OF THE WATER MAIN MAY BE THE CRITICAL PATH ITEM FOR STARTING BUILDING CONSTRUCTION.

Fiber Innovation Center

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Gaston College, Kimbrell Campus

7224 Wilkinson Boulevard

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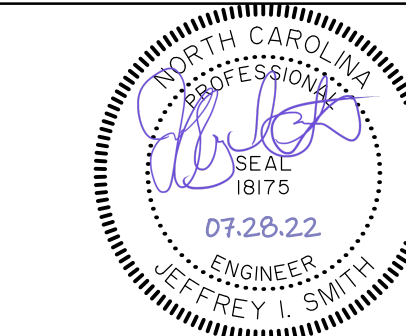
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GENERAL NOTES AND INDEX

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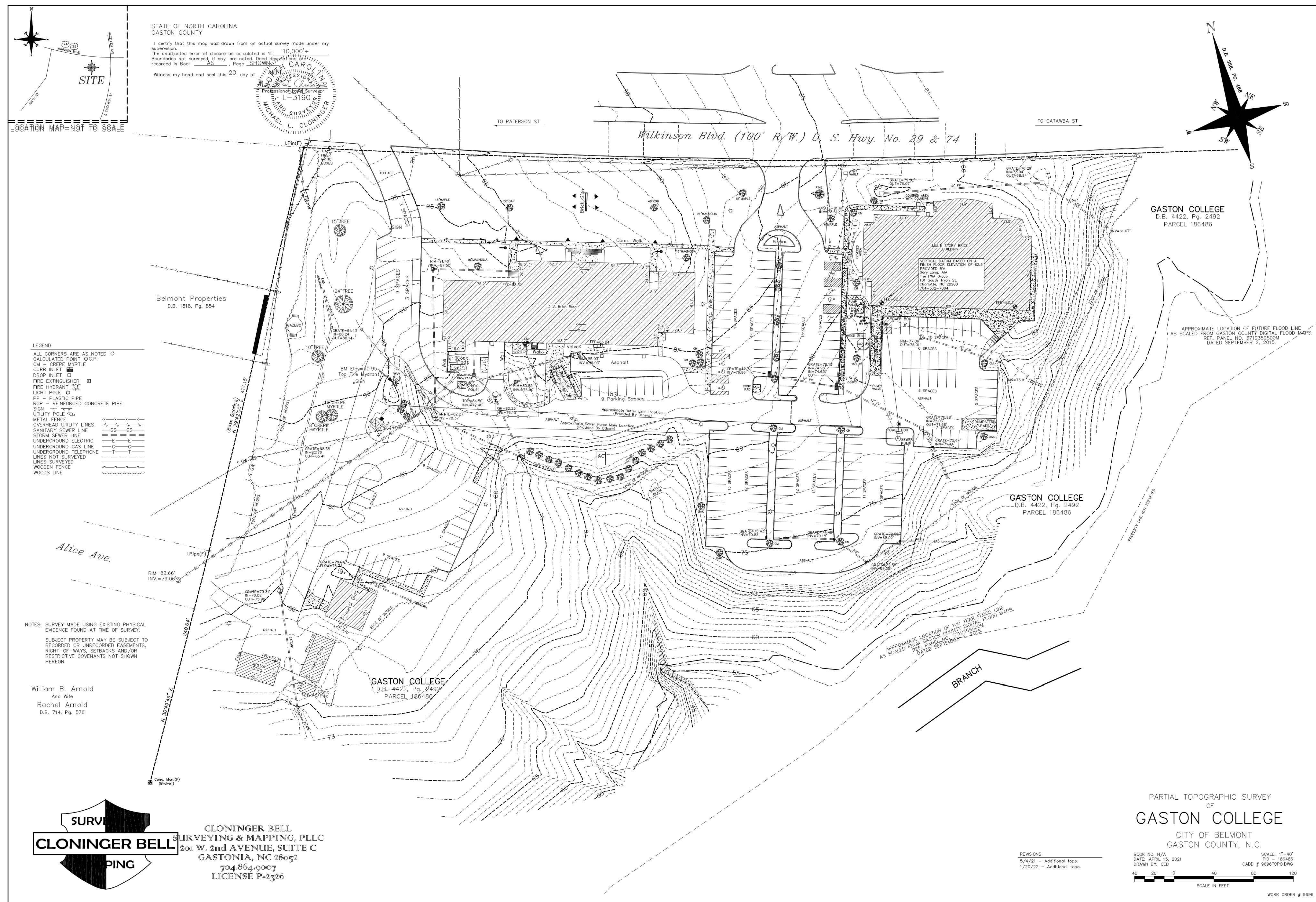
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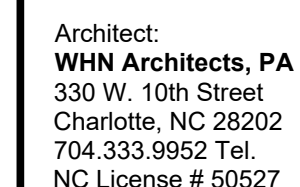
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EXISTING CONDITIONS

C0.2

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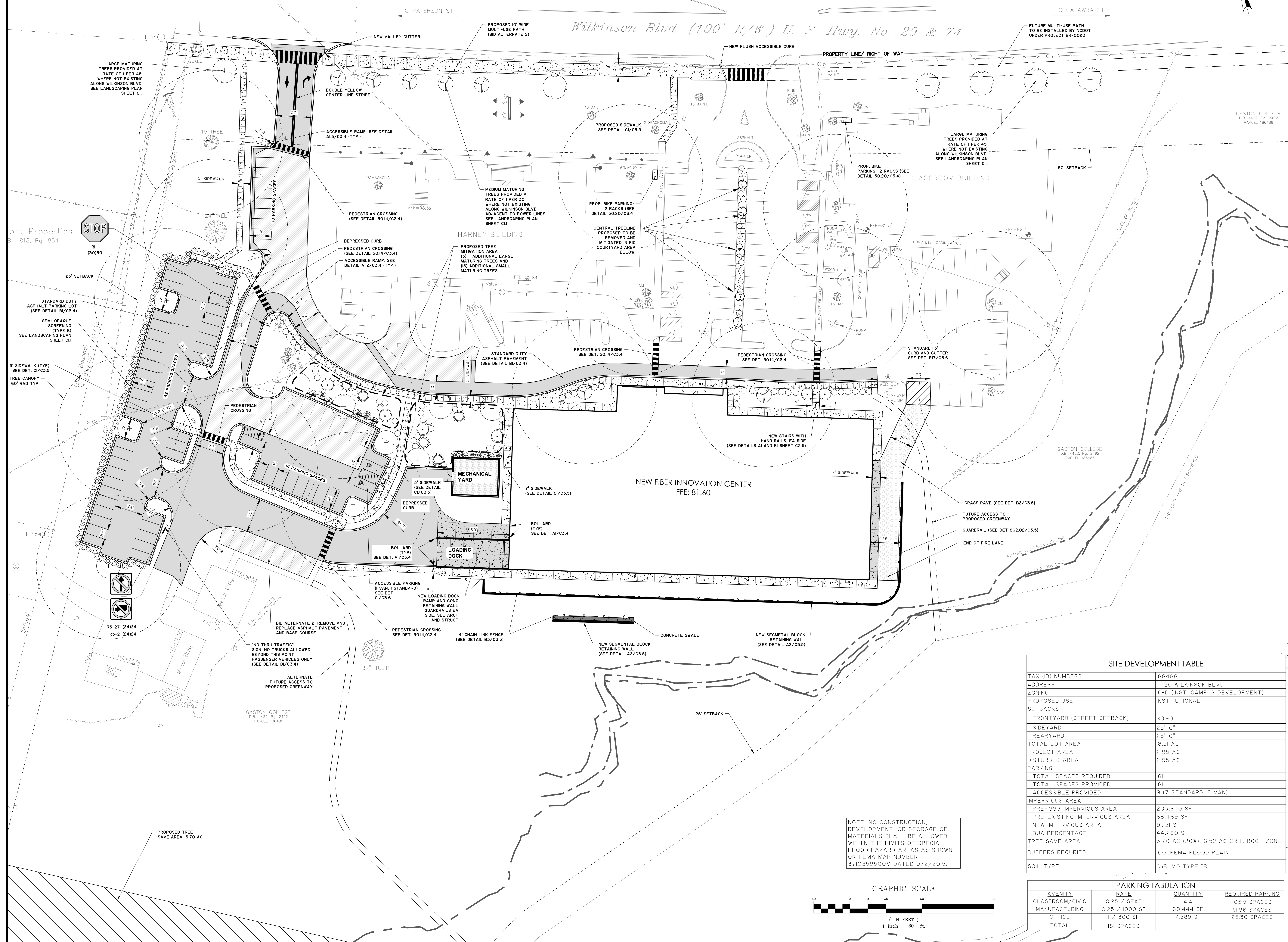
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OVERALL
SITE PLAN

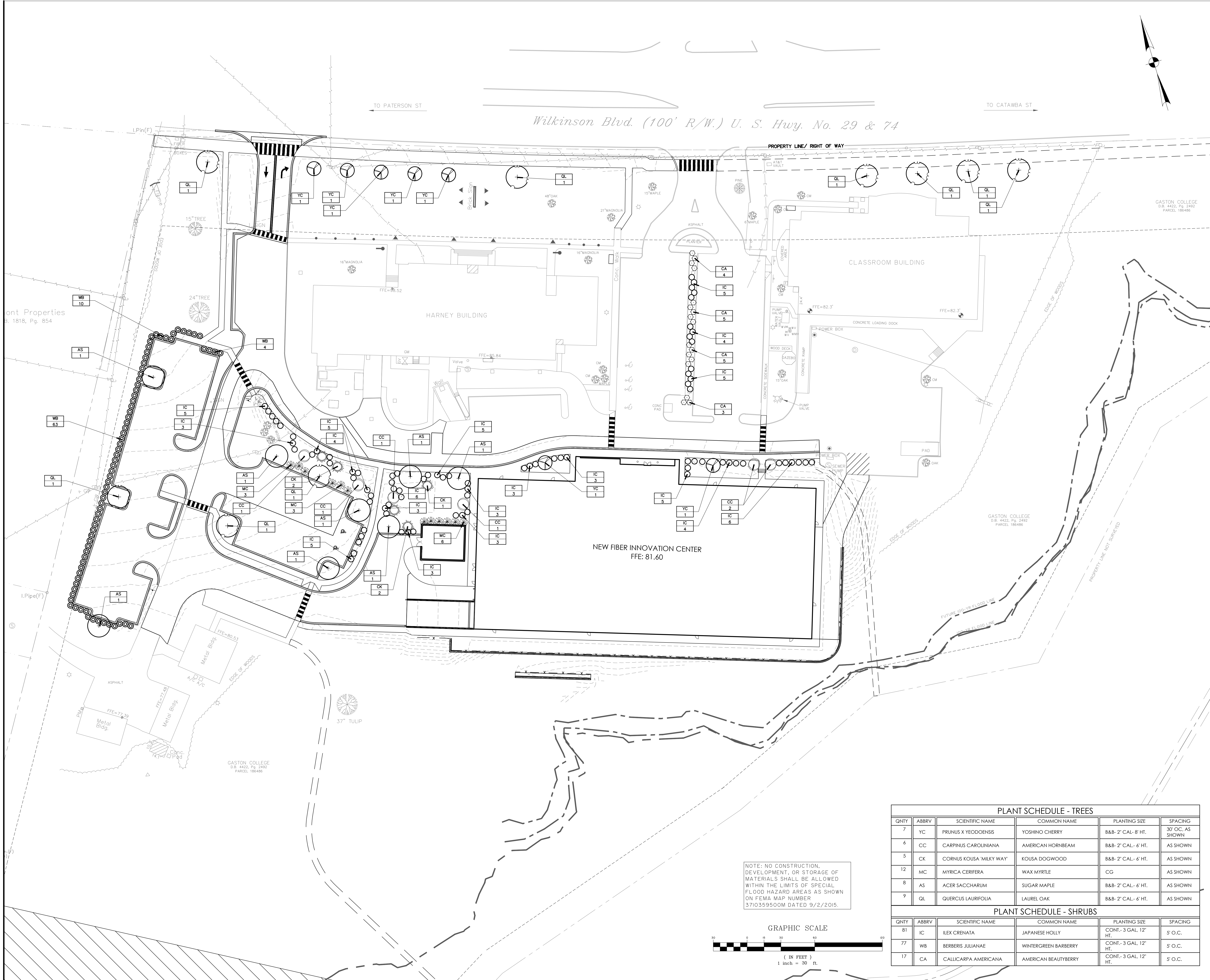
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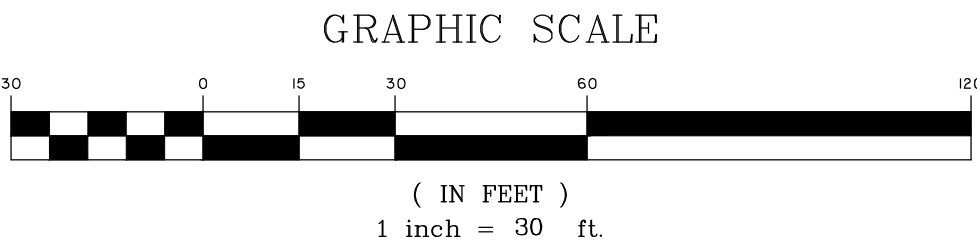
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2:27/21/2015 10:00 AM GASTON COLLEGE LANDSCAPE ARCHITECTURE PLANS 1897A.DWG - 0' - 1" = 1" PL 1897 - 01/26/2022 8:00 PM



NOTE: NO CONSTRUCTION, DEVELOPMENT, OR STORAGE OF MATERIALS SHALL BE ALLOWED WITHIN THE LIMITS OF SPECIAL FLOOD HAZARD AREAS AS SHOWN ON FEMA MAP NUMBER 3710359500M DATED 9/2/2015.



PLANT SCHEDULE - TREES					
QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING
7	YC	PRUNUS X YEODOENSIS	YOSHINO CHERRY	B&B- 2' CAL- 8' HT.	30' O.C. AS SHOWN
6	CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	B&B- 2' CAL- 6' HT.	AS SHOWN
5	CK	CORNUS KOUSA 'MILKY WAY'	KOUSA DOGWOOD	B&B- 2' CAL- 6' HT.	AS SHOWN
12	MC	MYRICA CERIFERA	WAX MYRTLE	CG	AS SHOWN
8	AS	ACER SACCHARUM	SUGAR MAPLE	B&B- 2' CAL- 6' HT.	AS SHOWN
9	QL	QUERCUS LAURIFOLIA	LAUREL OAK	B&B- 2' CAL- 6' HT.	AS SHOWN
PLANT SCHEDULE - SHRUBS					
QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING
81	IC	ILEX CRENATA	JAPANESE HOLLY	CONT.- 3 GAL. 12" HT.	5' O.C.
77	WB	BERBERIS JULIANAE	WINTERGREEN BARBERRY	CONT.- 3 GAL. 12" HT.	5' O.C.
17	CA	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	CONT.- 3 GAL. 12" HT.	5' O.C.

wh

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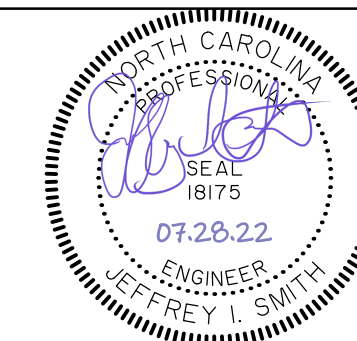
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OVERALL LANDSCAPING PLAN

C1.1

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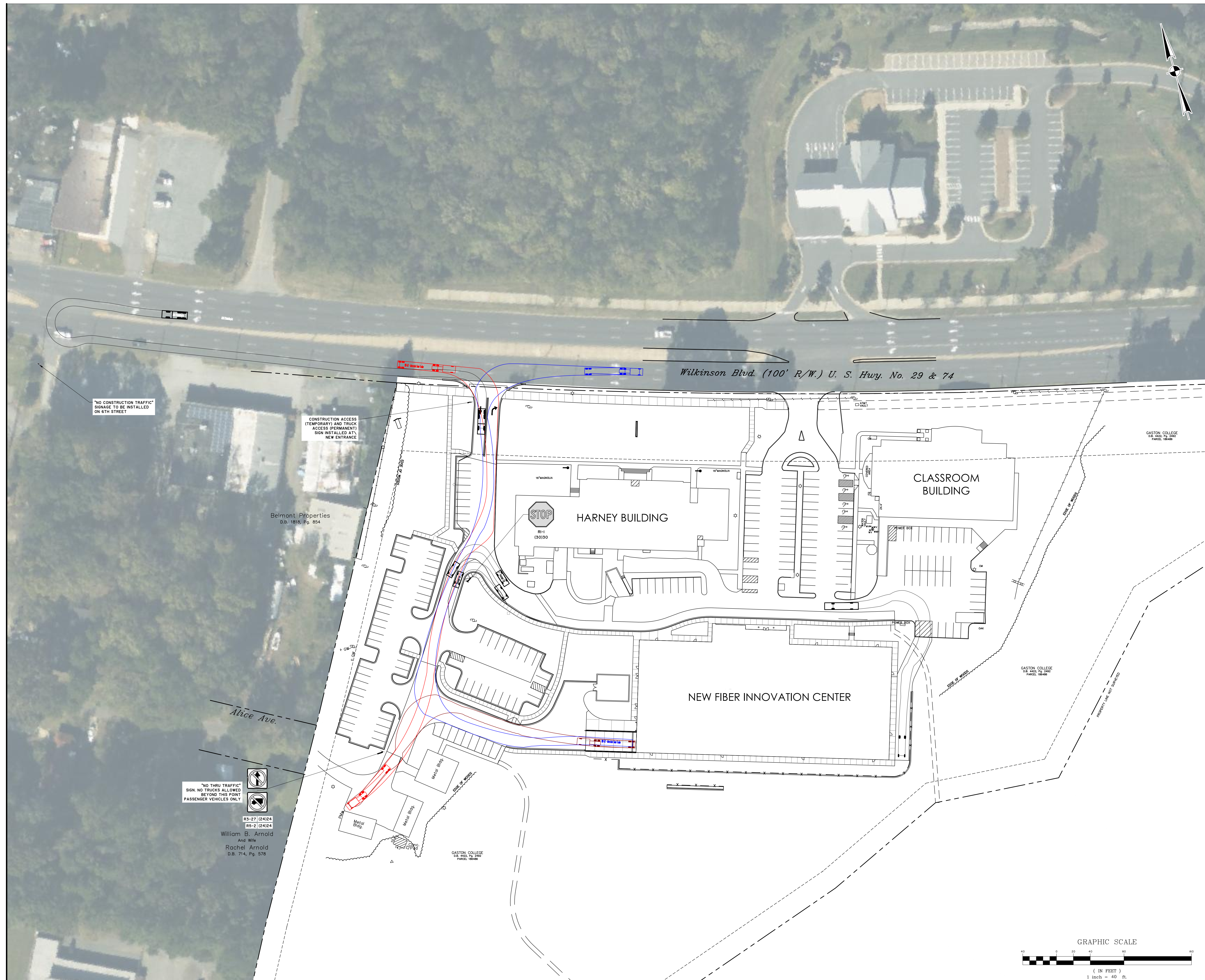
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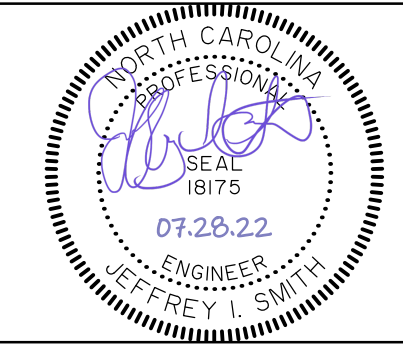
VEHICLE FLOW ANALYSIS

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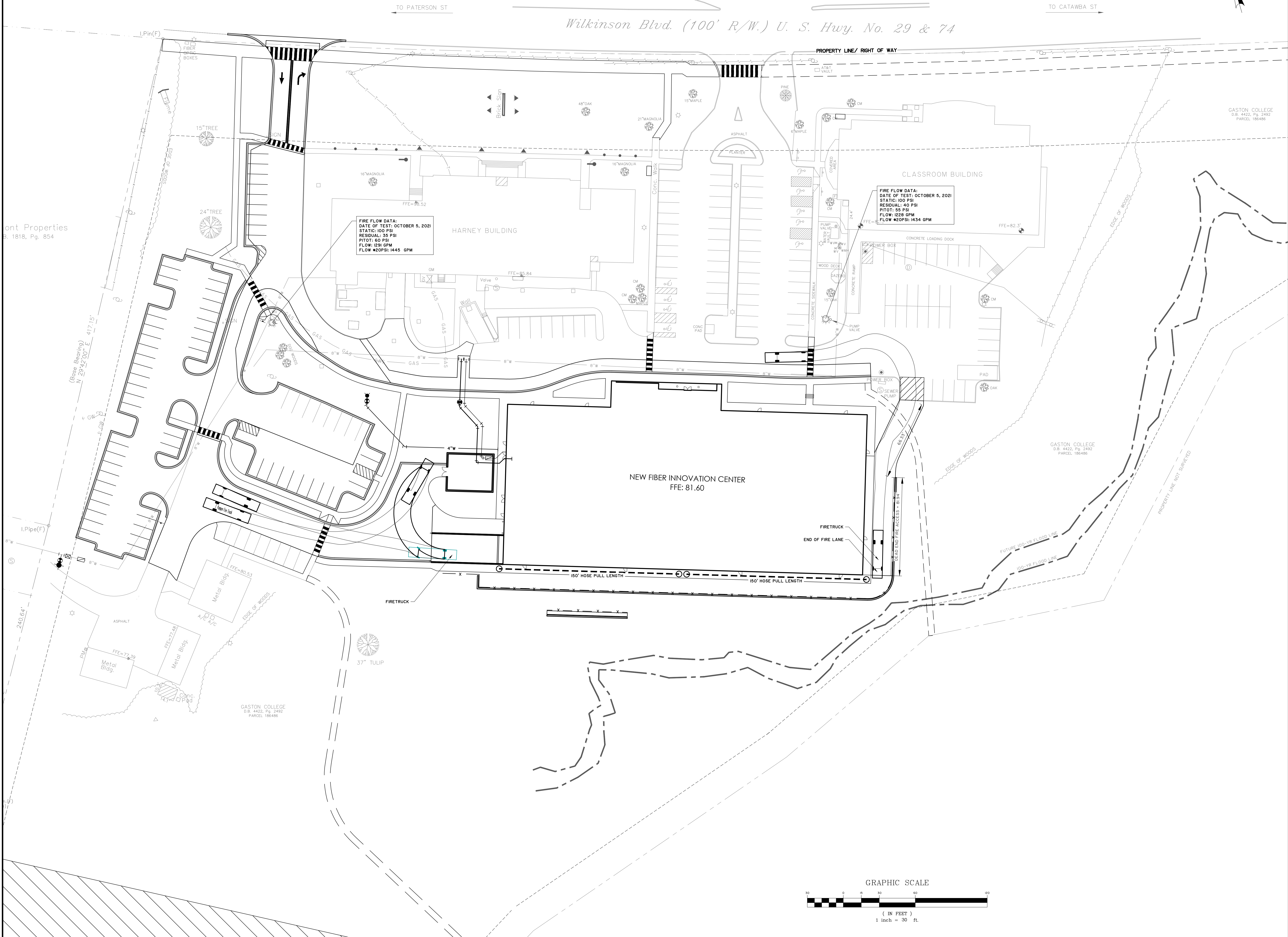
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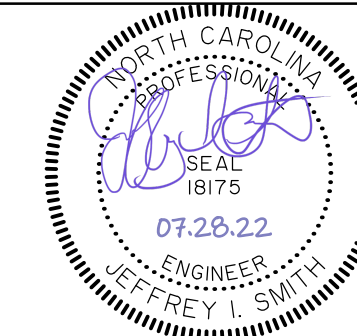
FIRE ACCESS PLAN

C2.1

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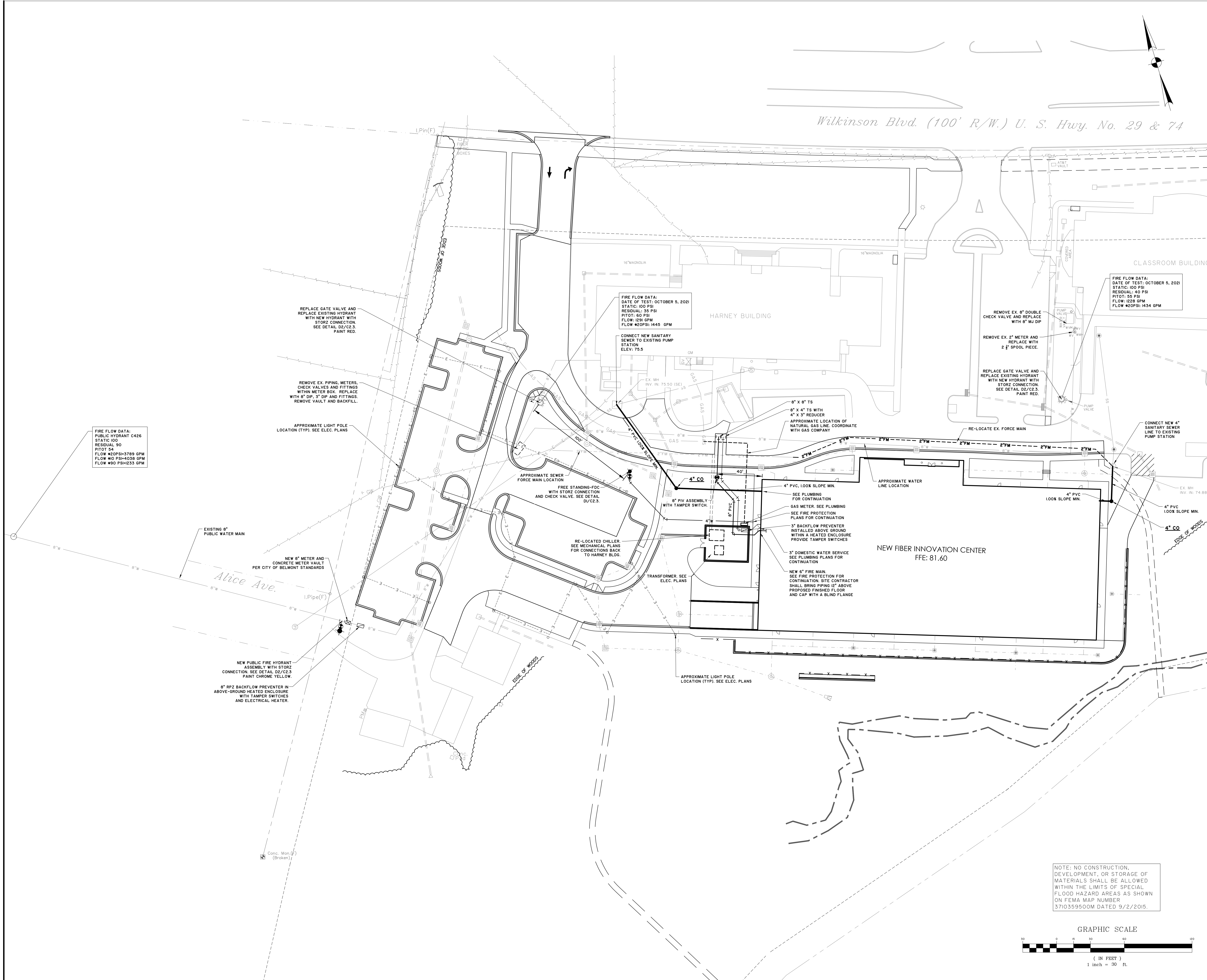
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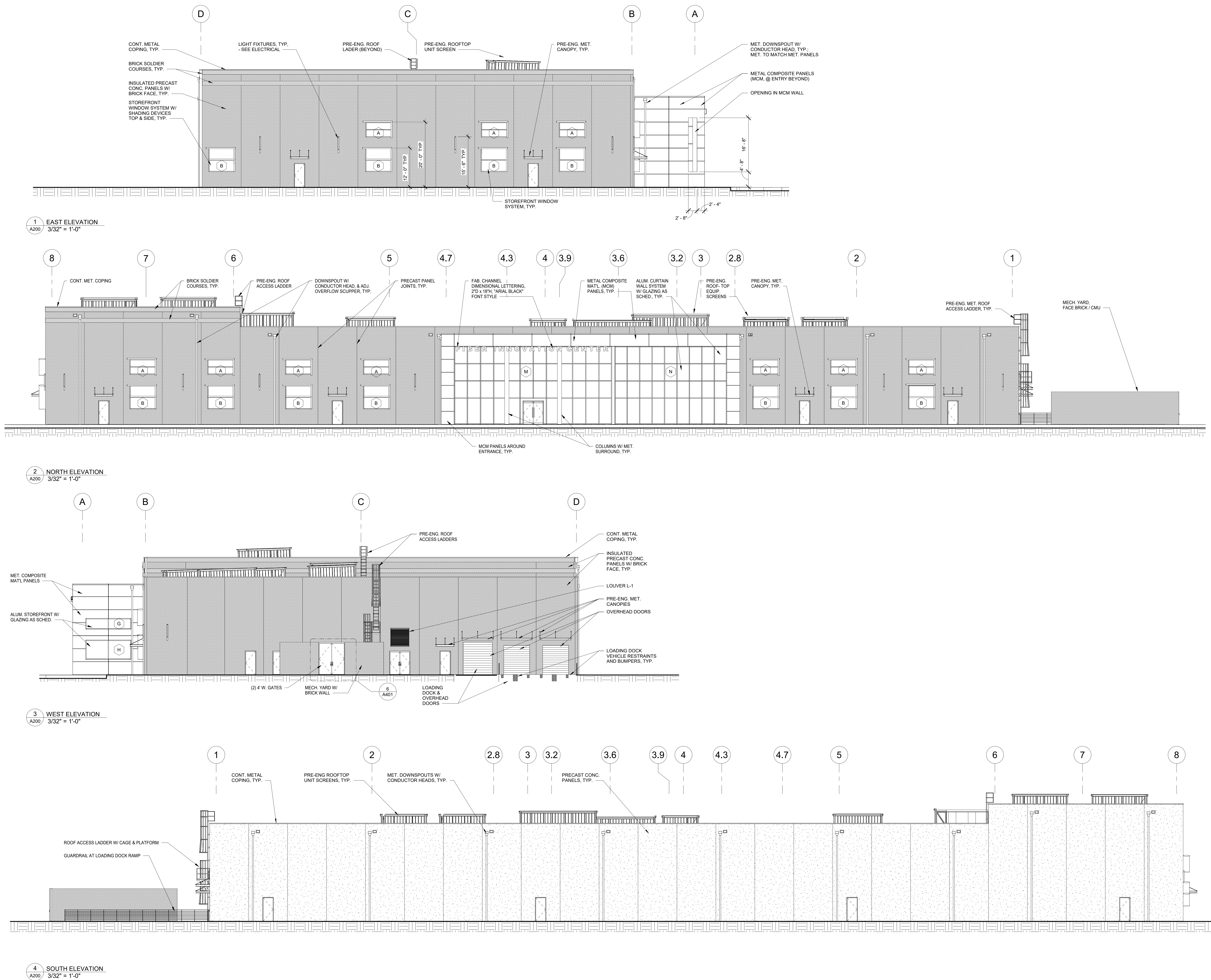
OVERALL WATER & SEWER PLAN

C2.0

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BUILDING ELEVATIONS

A200

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