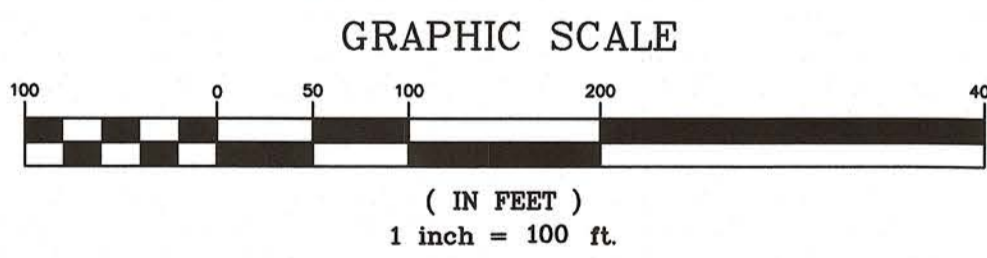
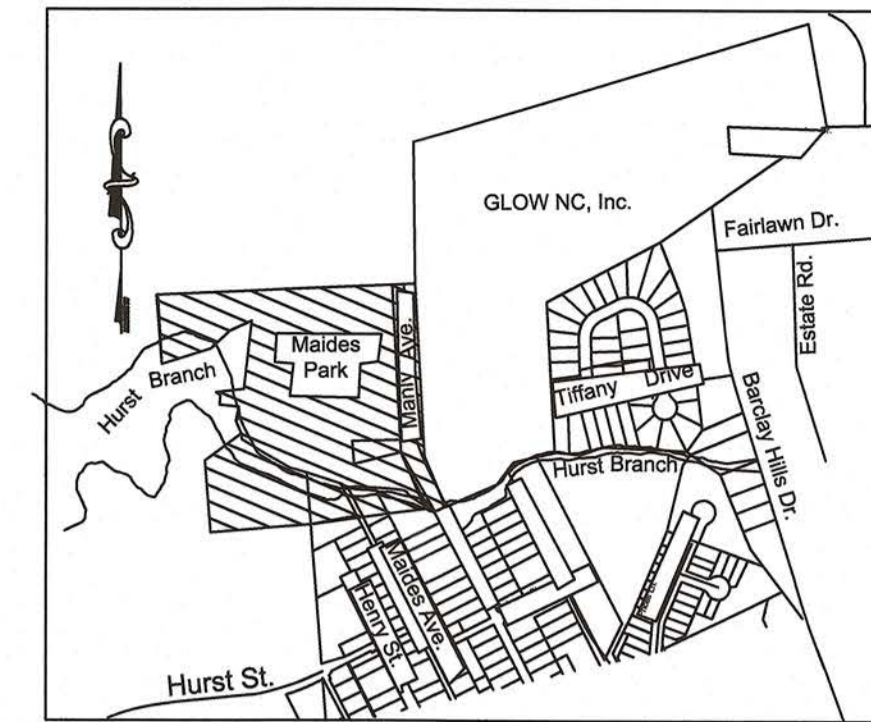


OVERALL PLAN



CITY OF WILMINGTON NOTES

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN TREE PROTECTION FENCING.
- ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 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.
- CONTACT TRAFFIC ENGINEERING AT 910.341.7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- CALL TRAFFIC ENGINEERING AT 910.341.7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITH THE PARKING AREAS SHALL BE WHITE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS & CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT 910.341.7888 TO DISCUSS STREET LIGHT OPTIONS.
- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910.343.3910 FOR INFORMATION.
- IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCO/CRH OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910.341.0696.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1.800.632.4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
- PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. NCDOT/CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT OF WAY.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. [DETAIL SD-13 COFW TECH STDS]
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-3888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.



VICINITY MAP - NTS

INDEX OF DRAWINGS

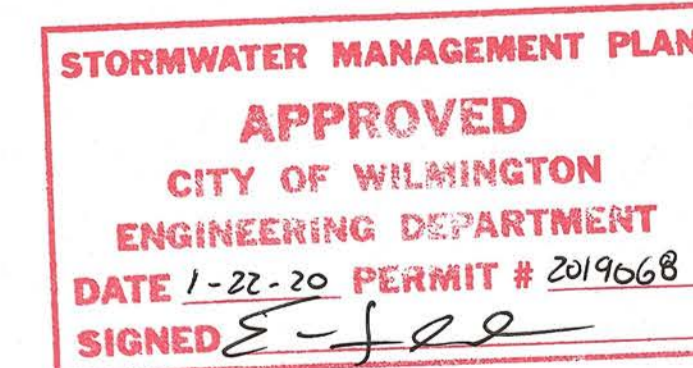
- CIVIL
- C100 COVER SHEET
 - C101 STAKING PLAN
 - C102 STAKING PLAN WITH EXISTING TREES
 - C201 EXISTING CONDITIONS AND DEMOLITION PLAN
 - C301 GRADING PLAN
 - C401 EROSION CONTROL PLAN
 - C501 UTILITY PLAN
 - C601 LANDSCAPE PLAN
 - C701 SITE DETAILS
 - C702 SITE DETAILS
 - C703 SITE DETAILS
 - C704 SITE DETAILS
 - C705 SITE DETAILS
 - C706 SITE DETAILS
 - C707 SITE DETAILS

SITE DATA

PROJECT:	MAIDES PARK GYMNASIUM ADDITION
OWNER:	CITY OF WILMINGTON
DEVELOPER/APPLICANT CONTACT:	RYAN O'REILLY PARKS LANDSCAPE AND FORESTRY MANAGER COMMUNITY SERVICES, PARKS AND RECREATION DIVISION 1702 BURNETT BOULEVARD WILMINGTON, NC 28405 910-341-7818
DESIGNER:	CLH DESIGN, PA
DESIGNER CONTACT:	RENEE PFEFFER REGENCY PARK 400 REGENCY FOREST DR., STE. 120 CARY, NC 27518 PHONE: 919-319-6716 FAX: 919-678-3170
PROJECT ADDRESS:	1101 MANLY AVE. WILMINGTON, NC 28405
TAX PIN:	3138-13-8976.000
ZONING:	R-10
OVERLAY DISTRICT:	NONE
EXISTING USE:	MUNICIPAL PARK & RECREATION AREA
PROPOSED USE:	MUNICIPAL PARK & RECREATION AREA
TRACT AREA:	577,153 SF (13.25 ACRES)
DISTURBED AREA:	0.78 ACRES
PROJECT BOUNDARY:	48,585.88 SF (1.11 ACRES)
FLOODPLAIN:	SITE IS NOT WITHIN A FLOODPLAIN (REF: MAP 3720313800K DATED AUG. 28, 2018)
THERE ARE NO WETLANDS WITHIN THE PROJECT BOUNDARY. THERE ARE NO ENDANGERED SPECIES OR HABITATS ON THIS SITE.	
BUILDING SETBACKS:	REQUIRED PROVIDED
FRONT	30' 93.79'
REAR	25' 44.5 FEET
INTERIOR SIDE	10' 218.41 (NORTH)
CORNER SIDE	15' -
TYPE OF CONSTRUCTION:	MB
NUMBER OF PROPOSED BUILDINGS:	1
NUMBER OF FLOORS ON PROPOSED BUILDING:	1
GROSS FLOOR AREA:	EXISTING: 4,765 SQ. FT. PROPOSED TOTAL: 8,295 SQ. FT.
BUILDING LOT COVERAGE-EXISTING:	0.82%
BUILDING LOT COVERAGE-PROPOSED:	1.43%
BUILDING LOT COVERAGE-TOTAL:	2.25% (50% ALLOWED LOT COVERAGE)
EX. BUILDING HEIGHT:	MAX. 14'-8"
MAX. BUILDING HEIGHT ALLOWED:	35'-0"
MAX. BUILDING HEIGHT PROPOSED:	32'-0"
CAMA LAND USE CLASSIFICATION:	URBAN
CAMA AREAS OF CONCERN (AEC):	THIS SITE IS NOT WITHIN A CAMA AEC.
IMPERVIOUS CALCULATIONS:	
TOTAL SITE IMPERVIOUS AREA:	99,957 SF
TOTAL NEWLY CONSTRUCTED IMPERVIOUS (WITHIN PROJECT BOUNDARY):	9,553 SF
EXISTING IMPERVIOUS TO REMAIN (WITHIN PROJECT BOUNDARY):	90,404 SF
PARKING REQUIREMENTS:	
PARKING CODE MINIMUM:	1 SPACE PER 400 SF (BUILDING) 7869 S.F. / 400 S.F. = 20 SPACES
PARKING CODE MAXIMUM:	1 SPACE PER 200 SF (BUILDING) 7869 S.F. / 200 S.F. = 40 SPACES
EXISTING PARKING SPACES =	77 SPACES
NEW PARKING SPACES =	NONE REQUIRED
TOTAL SPACES PROVIDED =	77 SPACES (EXISTING)
BICYCLE PARKING REQUIREMENTS:	
BICYCLE PARKING CODE:	5 BICYCLE PARKING SPACES FOR 25 OR MORE AUTO PARKING SPACES.
NEW AUTO PARKING SPACES =	NONE
BICYCLE PARKING REQUIRED =	NONE
BICYCLE PARKING PROVIDED =	4 (3 EXISTING TO BE RELOCATED AND REPLACED)

LESS THAN 10,000 SF IMPERVIOUS SURFACE AREA IS PROPOSED FOR THIS PROJECT, THEREFORE A FULL STORMWATER PLAN REVIEW FOR THIS PROJECT IS NOT REQUIRED. A DRAINAGE PLAN REVIEW WILL BE REQUIRED.

A TREE REMOVAL/PRESERVATION PERMIT IS REQUIRED PRIOR TO REMOVING ANY TREES. CONTRACTOR SHALL OBTAIN & COMPLETE PERMIT. CONTACT CITY OF WILMINGTON ZONING DEPARTMENT TO OBTAIN COPY OF PERMIT.



APPROVED CONSTRUCTION PLAN	
NAME	DATE
PLANNING	1/22/20
TRAFFIC	1-22-20
FIRE	1/22/20

SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE
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Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595

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MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

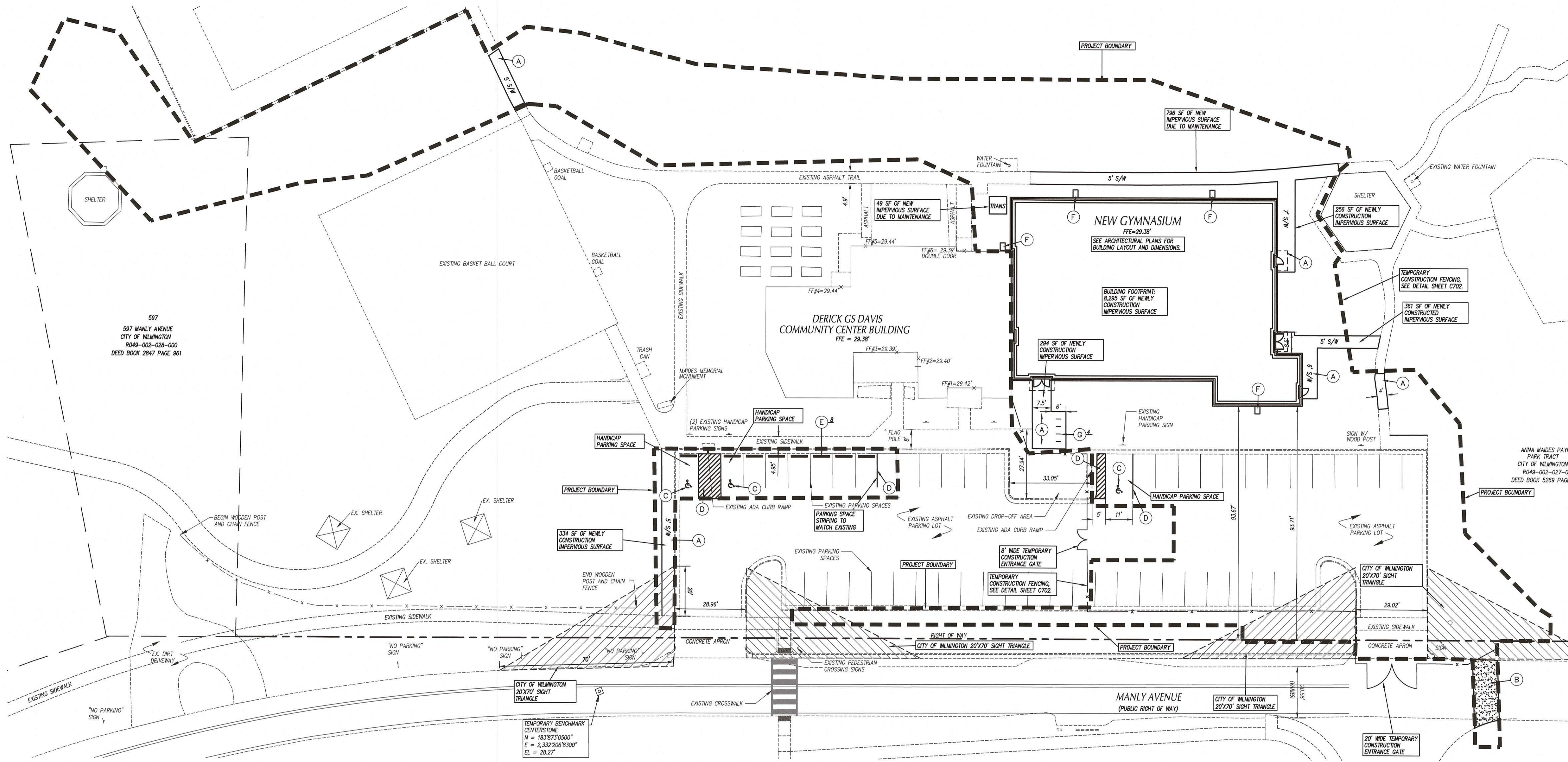
Construction Documents
January 10, 2020

Revisions:

COVER

C100

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597
597 MANLY AVENUE
CITY OF WILMINGTON
R049-002-028-000
DEED BOOK 2847 PAGE 961

ANNA MAIDES PAYNE
PARK TRACT
CITY OF WILMINGTON
R049-002-027-000
DEED BOOK 5269 PAGE

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADIUS' ARE 4 FT UNLESS OTHERWISE SHOWN.
7. ALL NEWLY STRIPED PARKING SPACES SHALL BE 9' WIDE X 18 FT DEEP MIN.
8. (AC) DENOTES ACCESSIBLE PARKING SPACE.
9. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
10. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
14. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT DAMAGED DURING CONSTRUCTION.
15. THE PROJECT BOUNDARY SHOWN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT THE LIMITS OF DISTURBANCE. FOR LIMITS OF DISTURBANCE, REFER TO SHEETS C201, C301, C401.

KEY NOTES

- (A) CONCRETE SIDEWALK, SEE DETAIL SHEET C702.
- (B) PAVEMENT REPAIR-UTILITY CUTS, SEE DETAIL SHEET C702.
- (C) INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING.
- (D) PARKING SPACE STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (E) CONCRETE WHEEL STOP, SEE DETAIL SHEET C702.
- (F) SPLASH BLOCK, SEE DETAIL SHEET C701.
- (G) CONCRETE BIKE RACK PAD, BIKE RACKS TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR PER DETAIL ON C703.

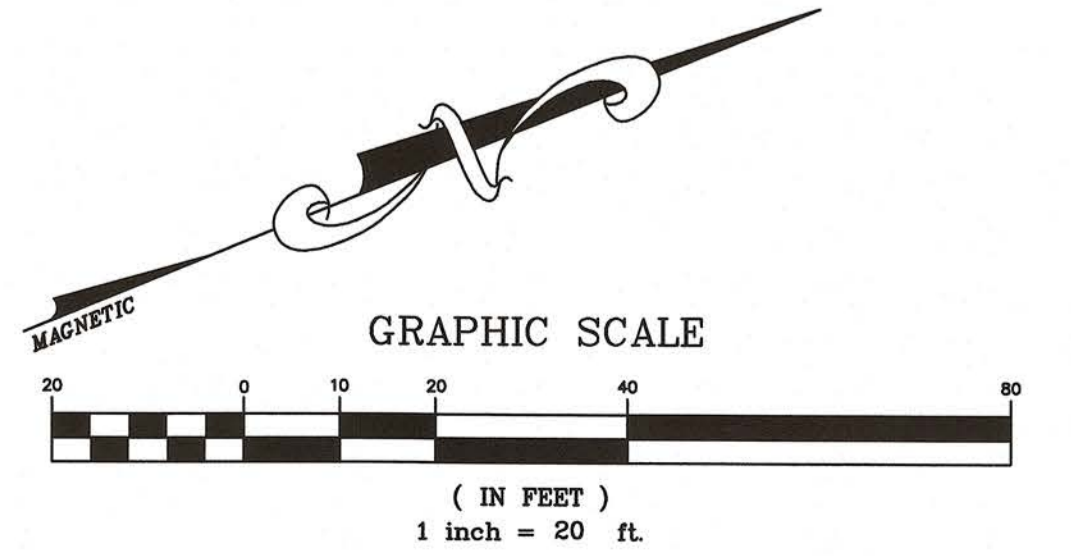
TRAFFIC CONTROL NOTES

1. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.
- | MARKING | NCDOT STD. | SIZE | COLOR |
|-----------------------------|------------|------|-------|
| PARKING SPACES | - | 4-IN | WHITE |
| ACCESSIBILITY PARKING SPACE | - | 4-IN | WHITE |
2. ALL PARKING SPACE LINES WHICH SHALL BE ALKYD-RESIN TYPE PAINT.
 3. ALL PAVEMENT MARKINGS IN ROW AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY OF WILMINGTON AND NCDOT STANDARDS.

CITY OF WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED DRAINAGE PLAN
Date: 1-22-20, Permit # 2019068
Signed: *E. S. Cole*

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING <i>Tracie D. Smith</i>	1/22/20
TRAFFIC <i>W. Smith</i>	1/22/20
FIRE <i>C. Williams</i>	1/22/20



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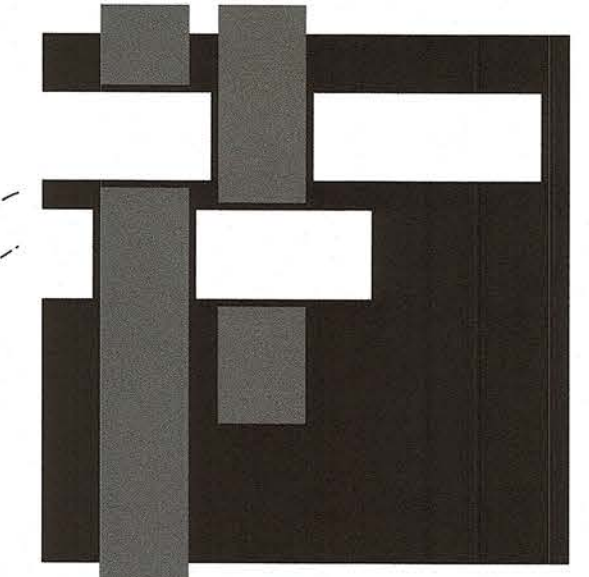
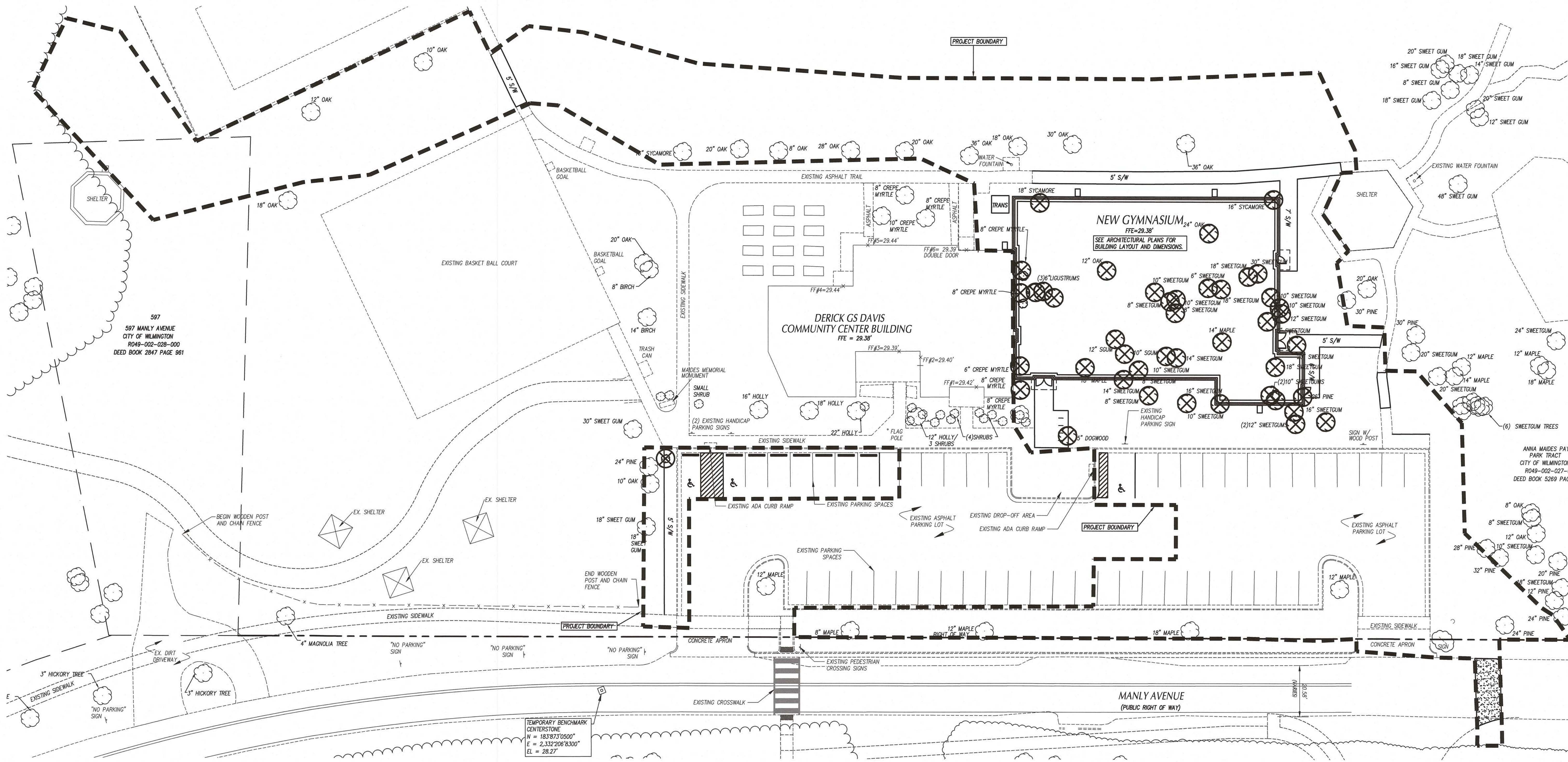
MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

Revisions:

STAKING PLAN

C101



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

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**MAIDES PARK
GYMNASIUM
ADDITION**
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

TREE REMOVAL	
REGULATED TREES REMOVED: 18-456.(a)	SIGNIFICANT TREES REMOVED: 18-456.(b)
HARDWOOD TREES 8" MIN.	HARDWOOD TREES 24" MIN.
CONIFER TREES 12" MIN.	PINE TREES 32" MIN.
ORNAMENTAL 4" MIN.	ORNAMENTAL 8" MIN.
EXEMPT TREES - LOCATED WITHIN BUILDING FOOTPRINT	
18" SYCAMORES 5" DOGWOOD 16" SYCAMORE (4) 8" SWEET GUMS (10) 10" SWEET GUMS (4) 12" SWEET GUMS (2) 14" SWEET GUMS 16" SWEET GUMS (3) 18" SWEET GUMS 20" SWEET GUM 14" MAPLE 18" MAPLE 28" PINE 12" OAK 6" CREPE MYRTLE	24" OAK 30" SWEET GUM (2) 8" CREPE MYRTLES
TREES REQUIRING MITIGATION	
8" CREPE MYRTLE = 5 TREES REQUIRED FOR REPLACEMENT	
SEE TABLE FOR PRESERVED TREES PRESERVED TREES MEET MITIGATION REQUIREMENTS	

PRESERVED TREES			
SIZE	QTY.	VALUE	TOTAL
6-11" CALIPER - 10" OAK (2) - 8" OAK - 8" MAPLE - 8" CREPE MYRTLE	5		44" TOTAL CALIPER
12-17" CALIPER - 16" SYCAMORE (2) 12" MAPLE - 12" OAK	4		52" TOTAL CALIPER
18-23" CALIPER (2) 20" OAK - 18" SWEETGUM 18" OAK 18" MAPLE	5		94" TOTAL CALIPER
24"< - 28" OAK - 24" PINE (2) (2) 36" OAK 30" OAK	6	(DBH/6)	178" CALIPER 178+44+52+94 = 368" 368/6 = 61 CREDITS
TOTAL:			61 CREDITS FOR TREES RETAINED
15 TREES (2" CALIPER OR GREATER) PER ACRE OF DISTURBED AREA TREES REQUIRED: 12 TREES ACRES DISTURBED: 0.76 EXISTING TREES SAVED: 20 TREES			

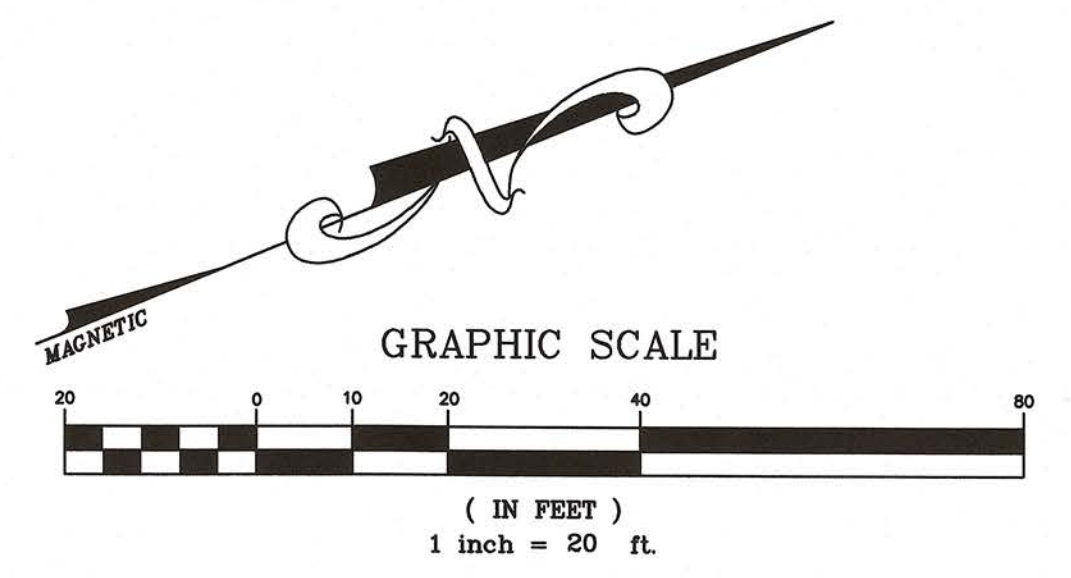
MITIGATION EXEMPTIONS
LDO SEC. 12-46(A,B,C):
A. PROTECTED TREES REMOVED WITHIN THE FOOTPRINT OF THE LOT COVERAGE ARE EXEMPT FROM MITIGATION, PROVIDED THE TOTAL BUILDING FOOTPRINT DOES NOT EXCEED TWENTY-FIVE (25) PERCENT OF THE TOTAL LOT AREA, AND PROVIDED THAT THE APPLICANT HAS DESIGNED AROUND TREES IN ORDER TO RETAIN AS MANY TREES AS PRACTICABLE.
B. REGULATED TREES REMOVED WITHIN THE AREA OF DISTURBANCE NECESSARY FOR ESSENTIAL SITE IMPROVEMENTS ARE EXEMPT FROM MITIGATION, PROVIDED THE APPLICANT HAS DESIGNED AROUND TREES IN ORDER TO RETAIN AS MANY TREES AS PRACTICABLE.
C. PROTECTED TREES THAT ARE REMOVED BY SPADING THE TREES AND PLANTED ELSEWHERE ON THE SITE ARE EXEMPT FROM MITIGATION. ADDITIONALLY, PROTECTED TREES THAT ARE REMOVED BY SPADING AND ACCEPTED BY THE CITY FOR PLANTING ON PUBLIC PROPERTY AT THE LOCATION DESIGNATED BY THE CITY MANAGER ARE EXEMPT FROM MITIGATION. ANY TREE THAT HAS BEEN TRANSPLANTED FOR THE PURPOSE OF THIS SECTION AND THAT BECOMES DISEASED OR DIES WITHIN THREE (3) YEARS OF TRANSPLANTING SHALL BE REPLANTED BY THE PARTY REQUESTING THE EXEMPTION WITH A TREE OF THE SAME SPECIES AND SIZE OR MITIGATED PURSUANT TO THIS ARTICLE.

THIS SHEET IS FOR PERMITTING PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION.

WILMINGTON
NORTH CAROLINA
Public Service Engineering Division
APPROVED DRAINAGE PLAN
Date: 1-22-20 Permit # 7019068
Signed: E. S. P.

APPROVED CONSTRUCTION PLAN

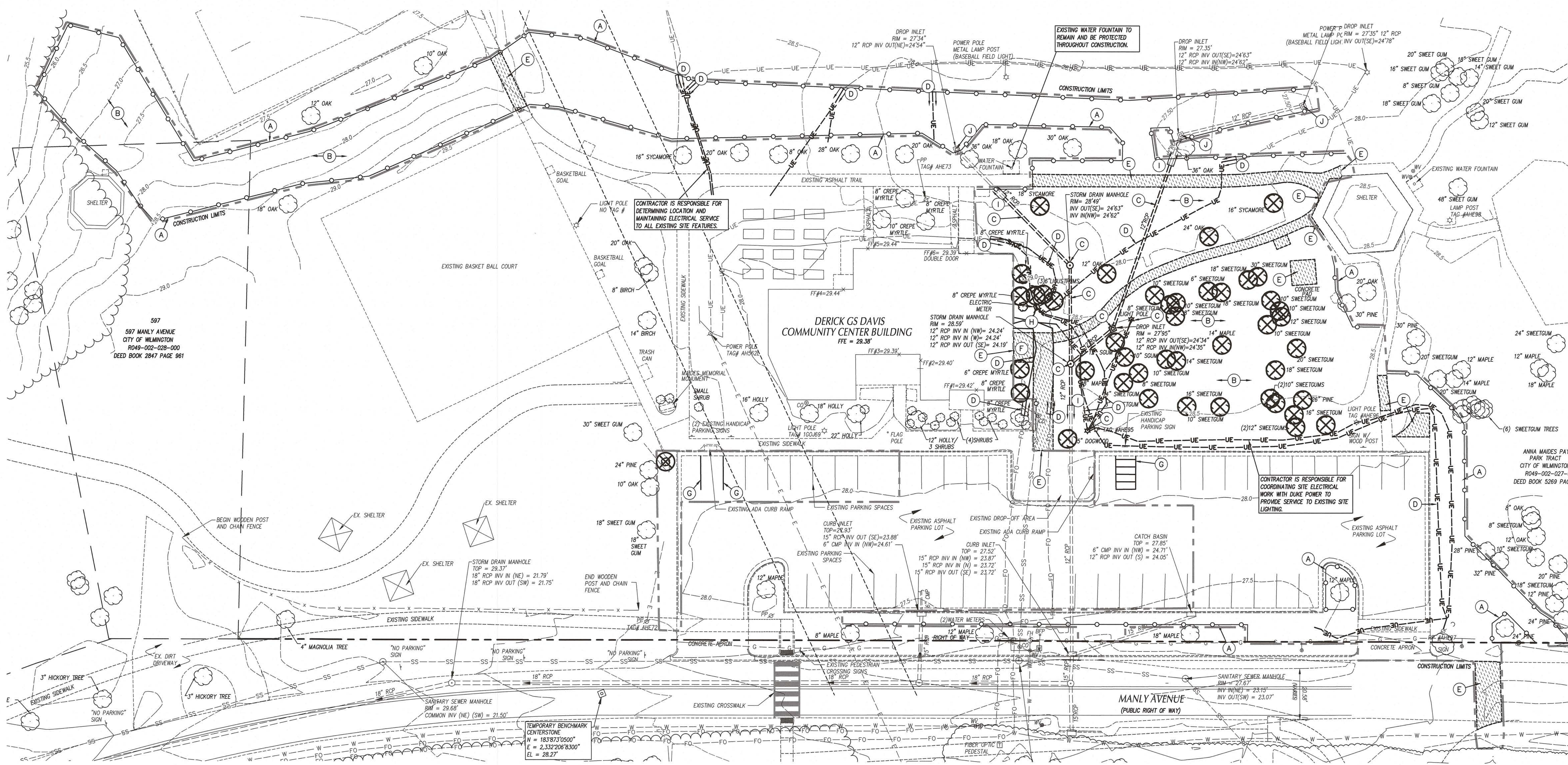
NAME	DATE
PLANNING: <i>Nicole D. Smith</i>	1/22/20
TRAFFIC: <i>W. Smith</i>	1-22-20
FIRE: <i>C. White</i>	1/22/20



Revisions:
CITY OF WILMINGTON COMMENTS (01/17/20)

**STAKING PLAN
WITH EXISTING
TREES**

C102



SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE
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 CA: C-106 PE: C-1595



MAIDES PARK GYMNASIUM ADDITION
 1101 MANLY AVENUE
 Wilmington, NC, 28405

Construction Documents
 January 10, 2020

LEGEND

STRUCTURES/UTILITIES TO BE REMOVED	STRUCTURES/UTILITIES TO REMAIN
OVERHEAD ELECTRICAL ----- E -----	OVERHEAD ELECTRICAL ----- E -----
UNDERGROUND ELECTRICAL ----- UE -----	UNDERGROUND ELECTRICAL ----- UE -----
FIRE PROTECTION ----- FP -----	FIRE PROTECTION ----- FP -----
GAS ----- G -----	GAS ----- G -----
SANITARY SEWER ----- SS -----	SANITARY SEWER ----- SS -----
TELEPHONE ----- T -----	TELEPHONE ----- T -----
UNDERGROUND TELEPHONE ----- UT -----	UNDERGROUND TELEPHONE ----- UT -----
FIBER OPTIC ----- FO -----	FIBER OPTIC ----- FO -----
WATER ----- W -----	WATER ----- W -----
FORCE MAIN ----- FM -----	FORCE MAIN ----- FM -----
STORM DRAIN ----- SD -----	STORM DRAIN ----- SD -----
INDIVIDUAL TREE TO BE REMOVED. SEE TREE REMOVAL NOTE	INDIVIDUAL TREE TO REMAIN
LIGHT POLE LP	LIGHT POLE LP
UTILITY POLE UP	UTILITY POLE UP
MANHOLE MH	MANHOLE MH
CLEAN OUT CO	CLEAN OUT CO
DROP INLET, CATCH BASIN DI, CB	DROP INLET, CATCH BASIN DI, CB
FIRE HYDRANT FH	FIRE HYDRANT FH
WATER VALVE WV	WATER VALVE WV
CONSTR./CLEARING LIMITS	PAVEMENT, S/W, C&G TO BE REMOVED
TREE PROTECTION FENCE	BUILDING/STRUCTURE TO BE REMOVED. SEE ARCHITECTURAL PLANS.

GENERAL NOTES

- ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
- ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY CITY OF WILMINGTON PETER J. BRENNAN, CITY SURVEYOR, PERFORMED 4/29/2019. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
- TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2'-FEET DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
- PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND/OR NC DOT STANDARDS AND SPECIFICATIONS.
- ALL EXISTING WALLS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
- DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET C702 FOR PAVEMENT REPAIR DETAILS.
- THIS SITE IS LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720313800K, DATED AUG. 28, 2018 AS BEING WITHIN ZONE "X"-OTHER AREA.
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
- CONTACT TRAFFIC ENGINEERING AT (910)-341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.

TREE REMOVAL NOTE:
 1. ALL TREE REMOVAL WILL BE PERFORMED BY THE CITY OF WILMINGTON. GENERAL CONTRACTOR IS RESPONSIBLE FOR GRUBBING AND TREE STUMP REMOVAL.

WILMINGTON FIRE & LIFE SAFETY NOTES

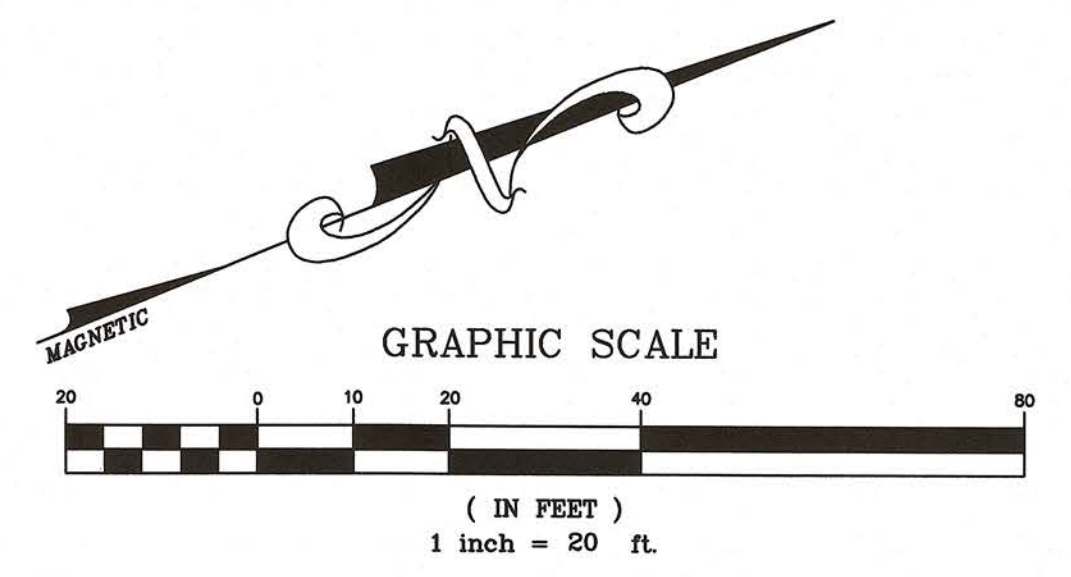
- CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
- A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
- FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0986.
- CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
- ALL ISOLATION VALVES MUST BE ELECTRICALLY SUPERVISED.

KEY NOTES

- (A) TEMPORARY TREE PROTECTION FENCE, SEE DETAIL SHEET C701.
- (B) CLEAR AND GRUB, STRIP TOPSOIL WITHIN CONSTRUCTION LIMITS.
- (C) STRUCTURE/UTILITY TO BE REMOVED.
- (D) EXISTING UTILITY LINE/STRUCTURE TO BE REMOVED/RELOCATED. REFER TO SITE ELECTRICAL PLAN FOR FURTHER INFORMATION.
- (E) SAWCUT AND REMOVE PAVEMENT. SIDEWALKS TO BE SAWCUT AT EXISTING JOINT LOCATIONS.
- (F) REMOVE EXISTING BIKE RACKS.
- (G) REMOVE EXISTING PARKING LOT STRIPING.
- (H) EXISTING TRANSFORMER TO BE REMOVED, SEE ELECTRICAL SITE PLAN FOR NEW LOCATION & ADDITIONAL INFORMATION.
- (I) CAP AND ABANDON UTILITY.
- (J) REMOVE FRAME AND GRATE AND FILL PIPE SEGMENT ONCE CAPPED, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services Engineering Division
 APPROVED DRAINAGE PLAN
 Date: 1-22-20 Permit # 2019068
 Signed: S. S. Lee

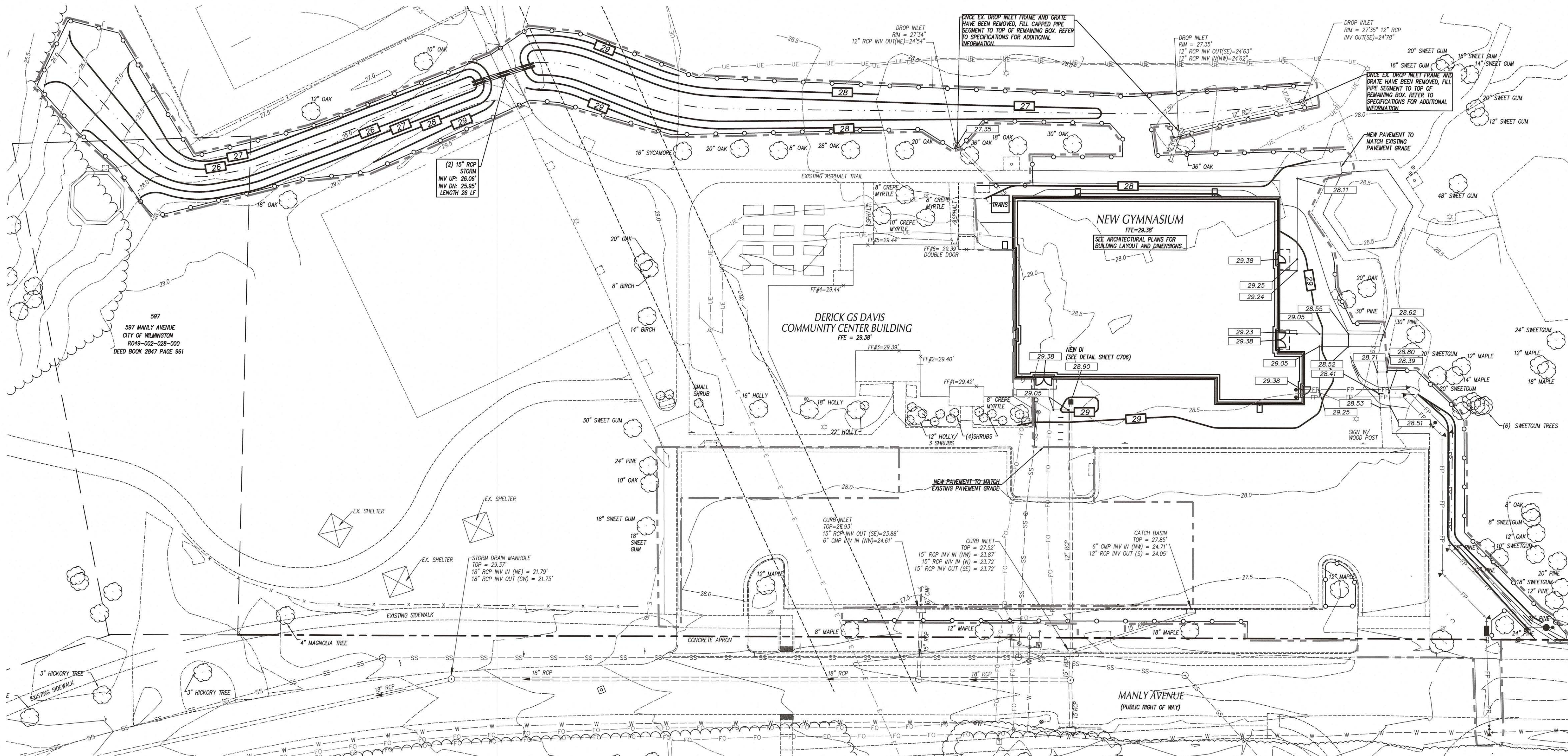
APPROVED CONSTRUCTION PLAN
 NAME: Nicole Smith 1/22/20
 DATE: 1-22-20
 TRAFFIC: W. S. Lee 1-22-20
 FIRE: C. W. Lee 1/22/20



Revisions:

EXISTING CONDITIONS & DEMOLITION PLAN
 C201

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597
597 MANLY AVENUE
CITY OF WILMINGTON
R049-002-028-000
DEED BOOK 2847 PAGE 961

(2) 15" RCP
STORM
INV UP: 28.06'
INV DN: 25.95'
LENGTH 26 LF

ONCE EX. DROP INLET FRAME AND GRATE
HAVE BEEN REMOVED, FILL CAPPED PIPE
SEGMENT TO TOP OF REMAINING BOX. REFER
TO SPECIFICATIONS FOR ADDITIONAL
INFORMATION.

ONCE EX. DROP INLET FRAME AND GRATE
HAVE BEEN REMOVED, FILL CAPPED PIPE
SEGMENT TO TOP OF REMAINING BOX. REFER
TO SPECIFICATIONS FOR ADDITIONAL
INFORMATION.

GRADING LEGEND

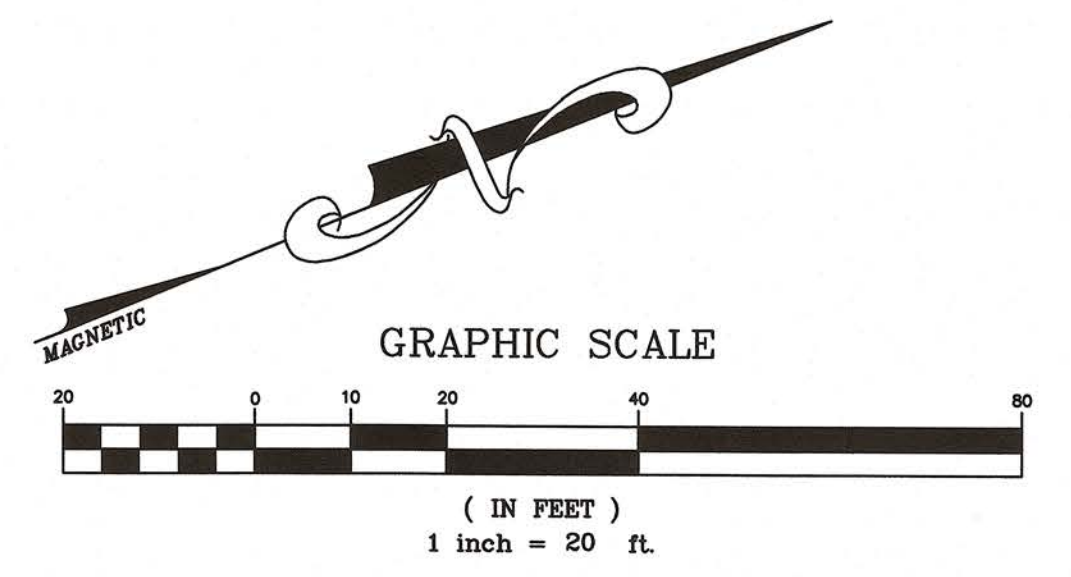
	EXISTING CONTOURS
	FINAL CONTOURS
	EXISTING SURVEY SPOT ELEVATION
	PROPOSED TOP OF CURB SPOT ELEVATION
	PROPOSED GROUND/PAVEMENT ELEVATION
	PROPOSED TOP OF WALL ELEVATION
	PROPOSED FINISHED GRADE AT BOTTOM OF WALL ELEVATION
	STORM STRUCTURE NUMBER
	EXISTING STORM DRAIN PIPE
	PROPOSED STORM DRAIN PIPE
	PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.
	PROPOSED ROOF DRAIN
	TREE PROTECTION FENCE

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 - TOTAL DENIED AREA = 0.76 AC
 - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
 - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
 - ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C701.
 - EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
 - ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
 - CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

CITY OF WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED DRAINAGE PLAN
Date: 1-22-20 Permit # 2019068
Signed: E. See

APPROVED CONSTRUCTION PLAN

PLANNING	NAME: <i>Nicola Smith</i>	DATE: 1/22/20
TRAFFIC	NAME: <i>W. Smith</i>	DATE: 1-22-20
FIRE	NAME: <i>C. Williams</i>	DATE: 1/22/20



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Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595



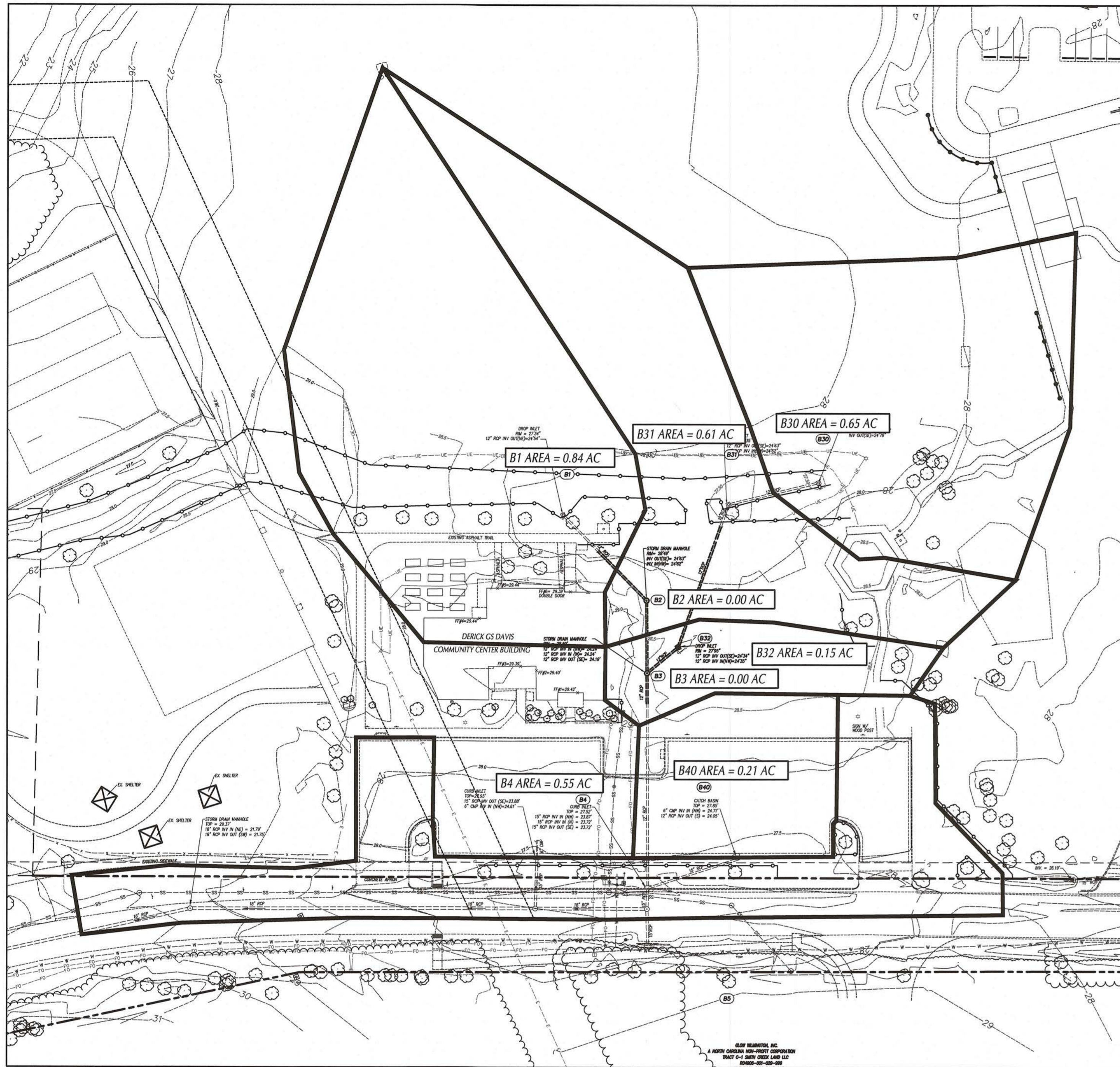
MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

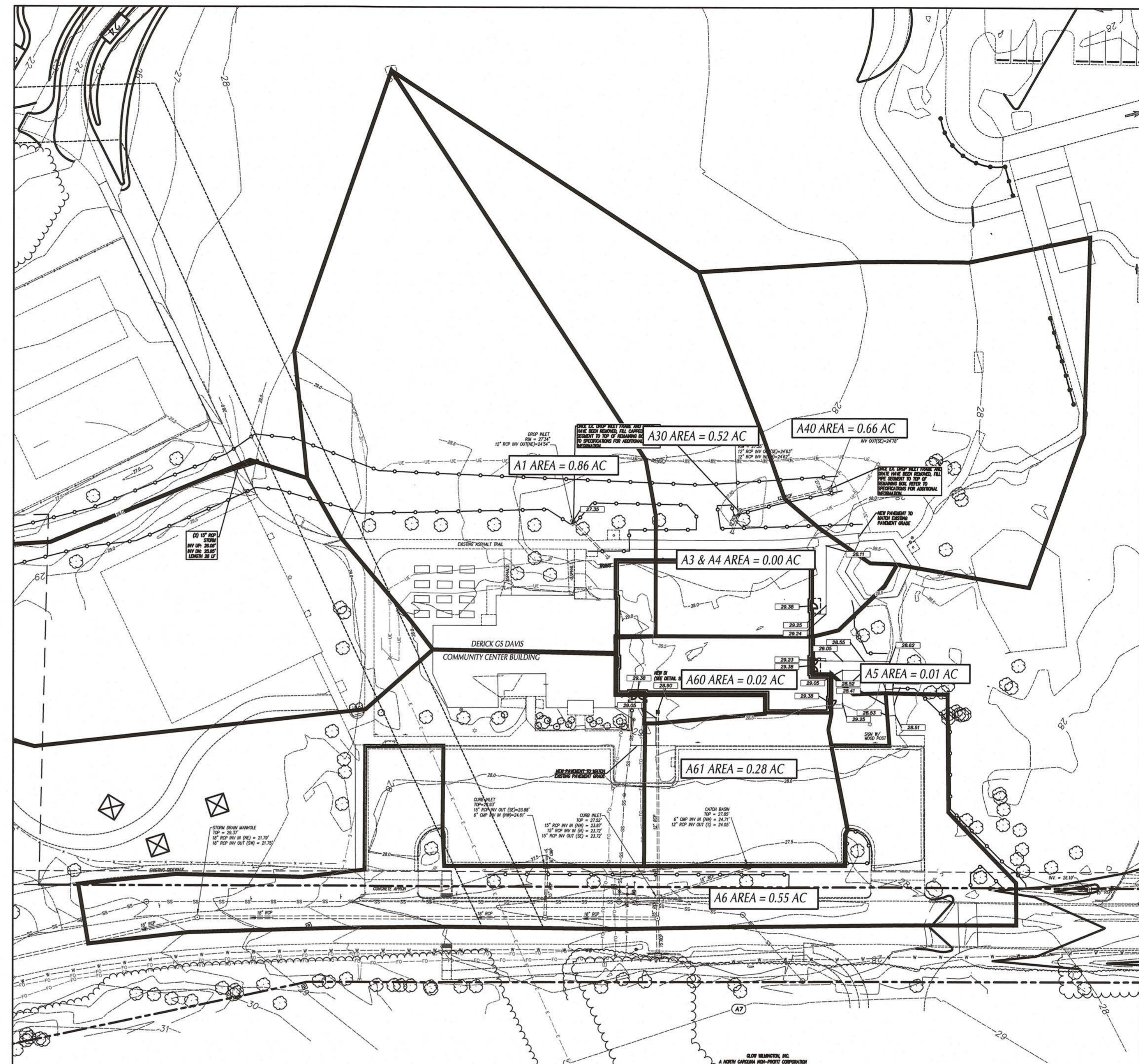
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GRADING PLAN

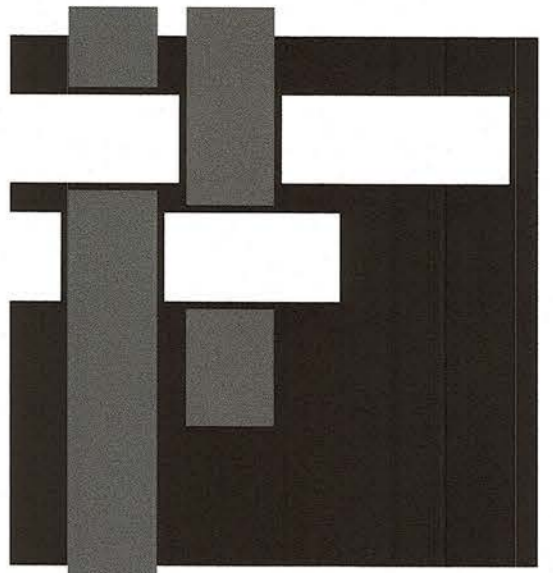
C301



DRAINAGE MAP - EXISTING CONDITIONS (NETWORK B)



DRAINAGE MAP - PROPOSED CONDITIONS (NETWORK A)



**SAWYER
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**MAIDES PARK
GYMNASIUM
ADDITION**
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

Revisions:

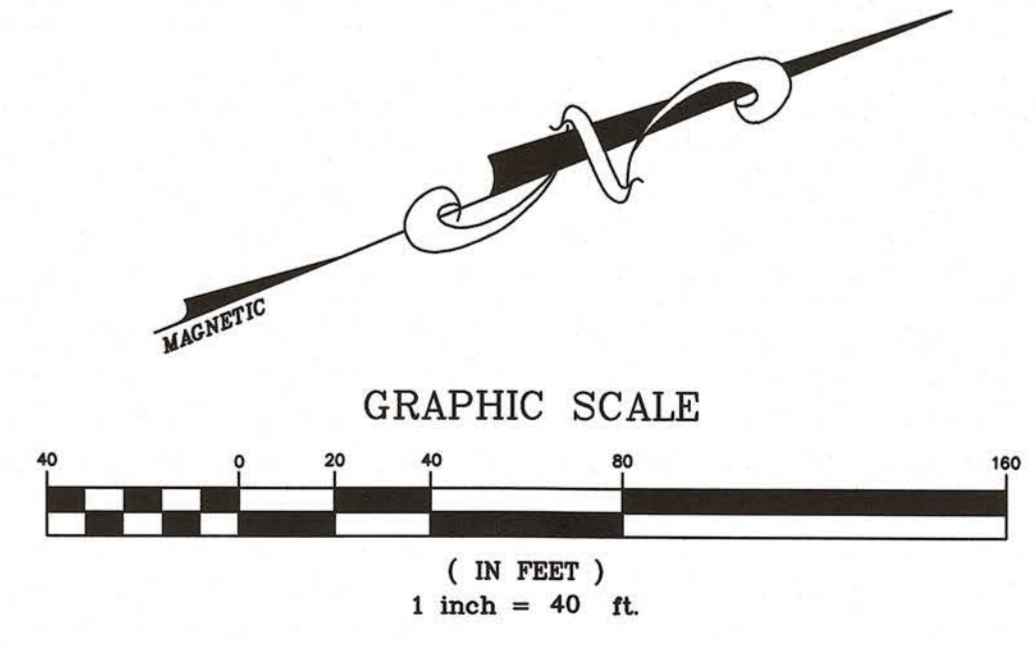
DRAINAGE MAP

C302

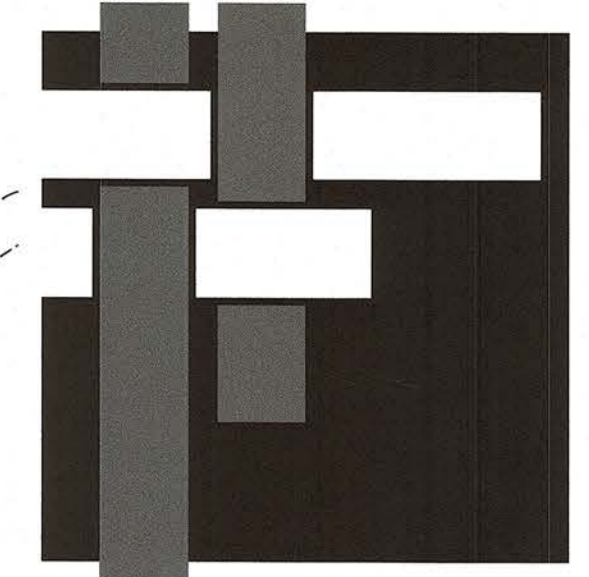
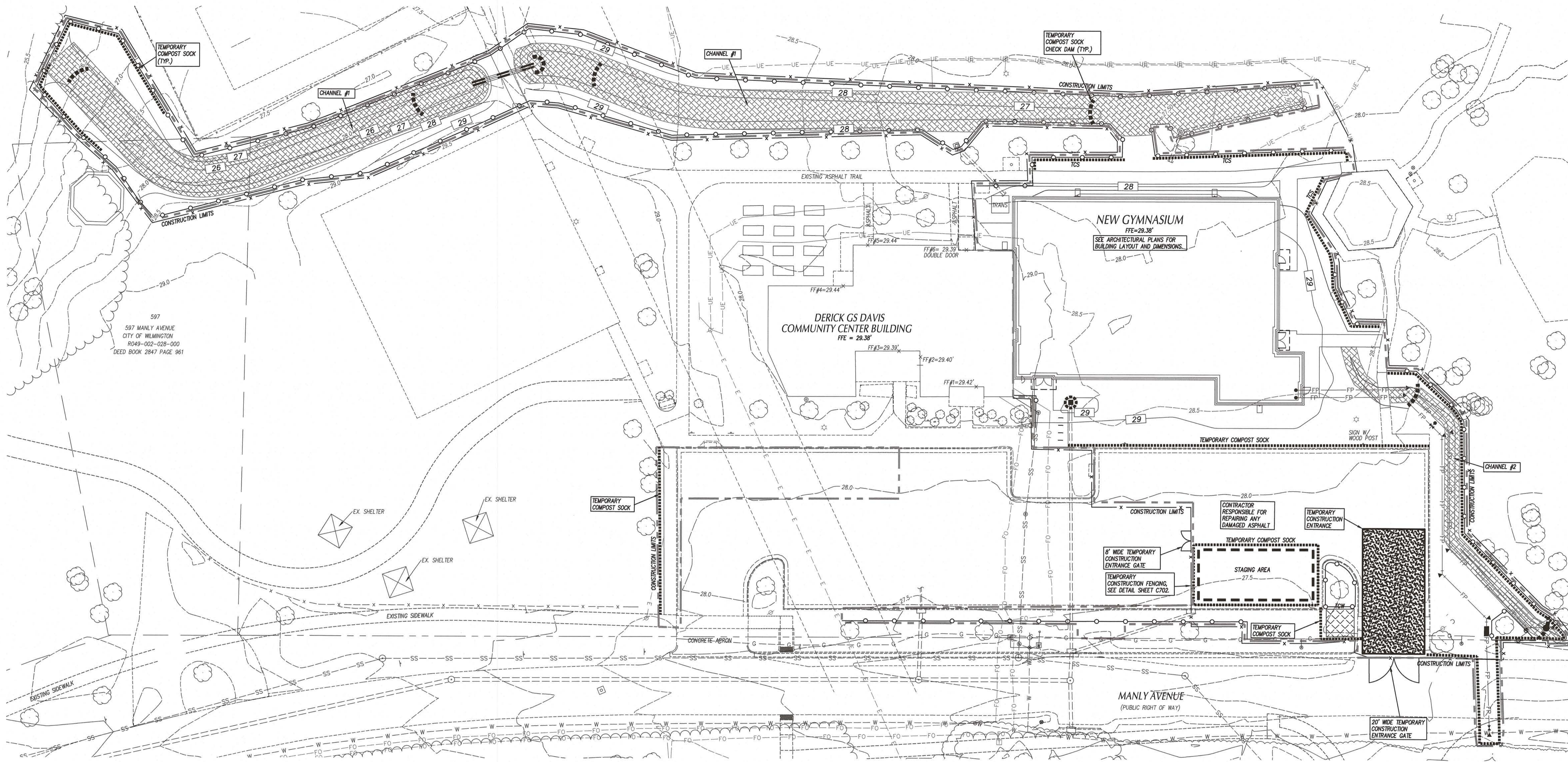
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**CITY OF
WILMINGTON**
NORTH CAROLINA
Public Services Engineering Division
APPROVED DRAINAGE PLAN
Date: 1-22-20 Permit # 2019068
Signed: *E. See*

APPROVED CONSTRUCTION PLAN
NAME DATE
PLANNING *Eric Smith* 1/22/20
TRAFFIC *W. Moore* 1-22-20
FIRE *C. Wan* 1/29/20

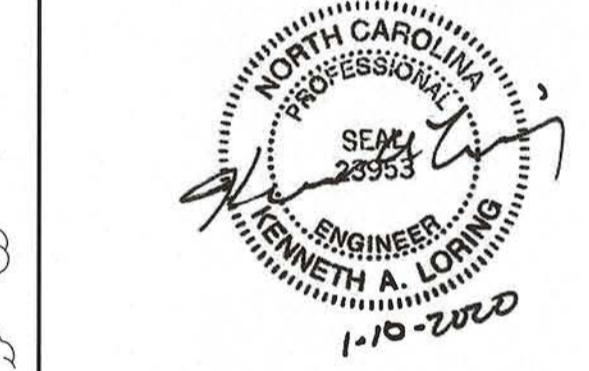


THIS SHEET IS FOR PERMITTING PURPOSES
ONLY AND SHOULD NOT BE USED FOR
CONSTRUCTION.



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**MAIDES PARK
GYMNASIUM
ADDITION**
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

LEGEND

	TEMP. GRAVEL CONSTR. ENTRANCE SEE DETAIL SHEET C701.		TREE PROTECTION FENCE SEE DETAIL SHEET C701.
	TEMP. INLET PROTECTION DEVICE SEE DETAIL SHEET C701		EXISTING CONTOUR
	TEMP. COMPOST SOCK SEE DETAIL SHEET C701		TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
	TEMP. CONCRETE WASHOUT AREA SEE DETAIL SHEET C704.		PROPOSED STORM SEWER PIPES
	TEMP. ROCK PIPE INLET PROTECTION. SEE DETAIL SHEET C702		EXISTING STORM SEWER PIPES
			CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.
			TEMPORARY COMPOST SOCK CHECK DAM. SEE SHEET C703.

MAINTENANCE PLAN

- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE FOLLOWING COMPLETION OF ANY PHASE OF GRADING. SEE SHEET C704.
- FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT. SEE SHEET C704.
- THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
- SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
- ALL OTHER SEEDING AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C705 FOR SELF-INSPECTION REQUIREMENTS.
THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDENR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ON SITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C704.
EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11B(2) (b))
THE REQUIREMENTS ON SHEET C704 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.
INSTALL TEMPORARY EXCELSIOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE

- INSTALL TREE PROTECTION FENCING.
- CONDUCT PRE-CONSTRUCTION CONFERENCE.
- CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPLETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE NCDENR WEBSITE: (<http://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms>). COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. SEE DETAIL SHEET C705.
- INSTALL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCES, TEMPORARY COMPOST SOCKS, TEMPORARY INLET PROTECTION DEVICES ON EXISTING INLETS. CLEAR AND GRUB.
- ESTABLISH TEMPORARY CONSTRUCTION TRAILERS WITHIN STAGING AREA.
- SEED AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION. GROUND STABILIZATION WILL BE APPLIED WITHIN 14 CALENDAR DAYS FROM LAST LAND DISTURBING ACTIVITY. FOR STEEP SLOPES, THAT AREA MUST BE STABILIZED WITHIN 7 CALENDAR DAYS.
- AT THE END OF EACH DAY, INSTALL AND ADJUST TEMPORARY TEMPORARY COMPOST SOCK PERIMETER FENCES AS NECESSARY. ALL DISTURBED AREAS ARE TO BE STABILIZED AS OUTLINED ON THIS PLAN.
- INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
- VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT.
- MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
- CALL FOR INSPECTION BY ENGINEER OF STABILIZED SITE. IF APPROVED, REMOVE TEMPORARY EROSION CONTROL DEVICES. SEED AND MULCH ALL DISTURBED AREAS.

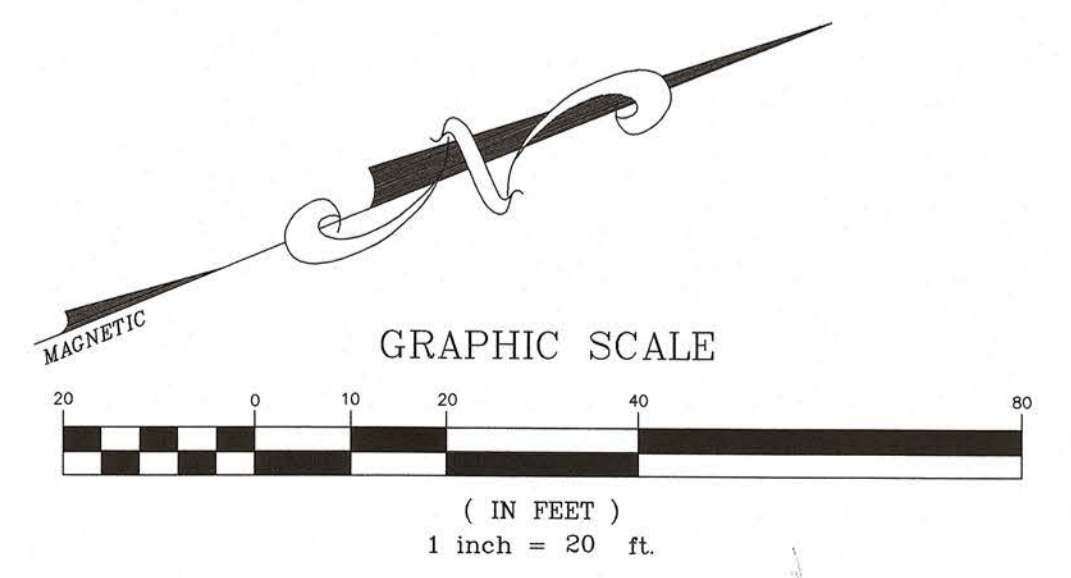
GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
- ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C701.
- ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
- THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
- SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
- ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS.
- CONTRACTOR SHALL COORDINATE SCHEDULE FOR INSTALLATION AND REMOVAL OF EROSION CONTROL DEVICES IN THE GEOTHERMAL WELL GRID.

CITY OF WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED DRAINAGE PLAN
Date: 1-22-20 Permit # 2019068
Signed: *E. S. Lee*

APPROVED CONSTRUCTION PLAN

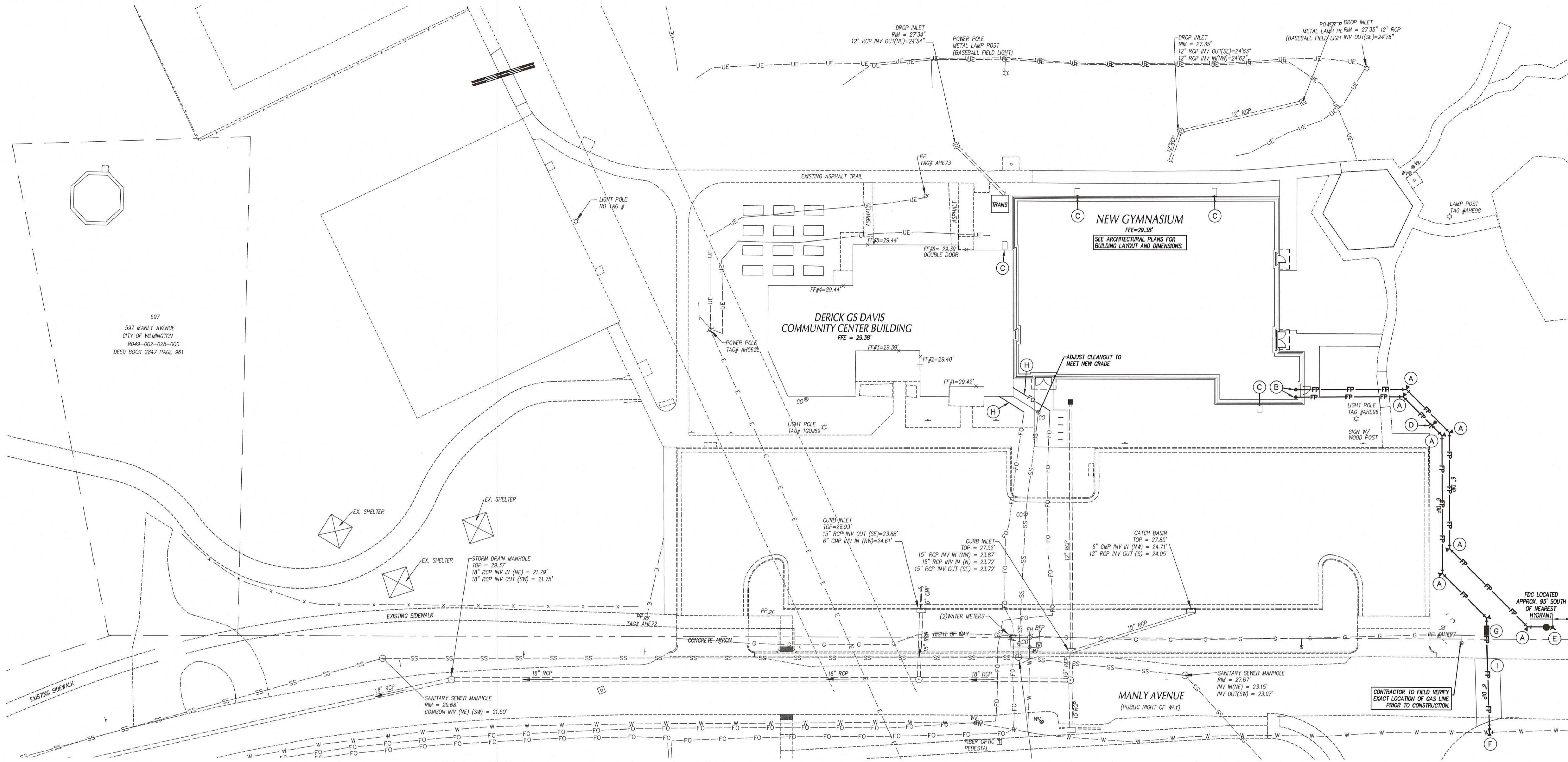
PLANNING	NAME	DATE
TRAFFIC	<i>W. Smith</i>	1-22-20
FIRE	<i>C. Lee</i>	1/22/20



Revisions:

**EROSION
CONTROL PLAN**

C401



597
597 MANLY AVENUE
CITY OF WILMINGTON
R049-002-028-000
DEED BOOK 2847 PAGE 961

UTILITY LEGEND

	EXISTING	PROPOSED
ELECTRICAL (OVERHEAD)	---	—E—
ELECTRICAL (UNDERGROUND)	---UE---	—UE—
GAS	---	—G—
SANITARY SEWER	---	—SS—
TELEPHONE (OVERHEAD)	---	—T—
TELEPHONE (UNDERGROUND)	---	—UT---
WATER	---	—W—
ROOF DRAIN	---	—RD---
FIRE PROTECTION	---	—FP---
STORM DRAIN	---	—SD---
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS	---	---
LIGHT POLE	☆ LP	★
UTILITY POLE	⊙ PP	⊙
MANHOLE	⊙ MH	●
CLEAN OUT	⊙ CO	●
DROP INLET, CATCH BASIN	□ DI, CB	■
FIRE HYDRANT	⊕ FH	⊕
WATER VALVE	⊕ WV	⊕
POST INDICATOR VALVE (PIV)	⊕	⊕
FIRE DEPARTMENT CONNECTION (FDC)	⊕	⊕
THRUST BLOCKING	⊕	⊕
SANITARY SEWER STRUCTURE IDENTIFICATION	1	1

GENERAL NOTES-UTILITY

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 3-FT.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
- WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
- COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CABLE.
- VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
- SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
- CONTRACTOR SHALL ACQUIRE UTILITY CUT PERMIT FOR EACH OPEN CUT OF A CITY OF WILMINGTON STREET. CONTACT (910)-341-5888 FOR MORE DETAILS.

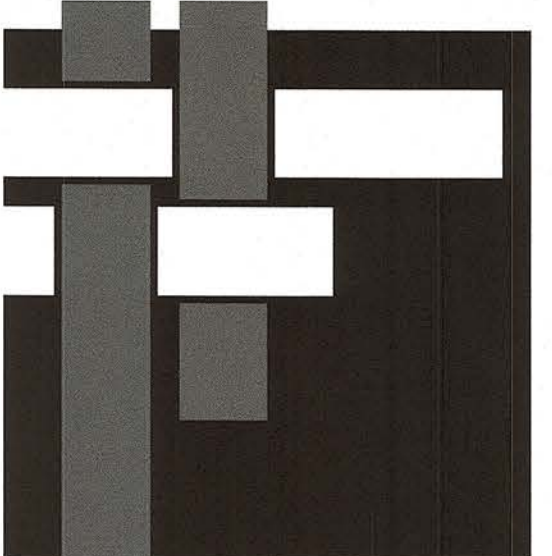
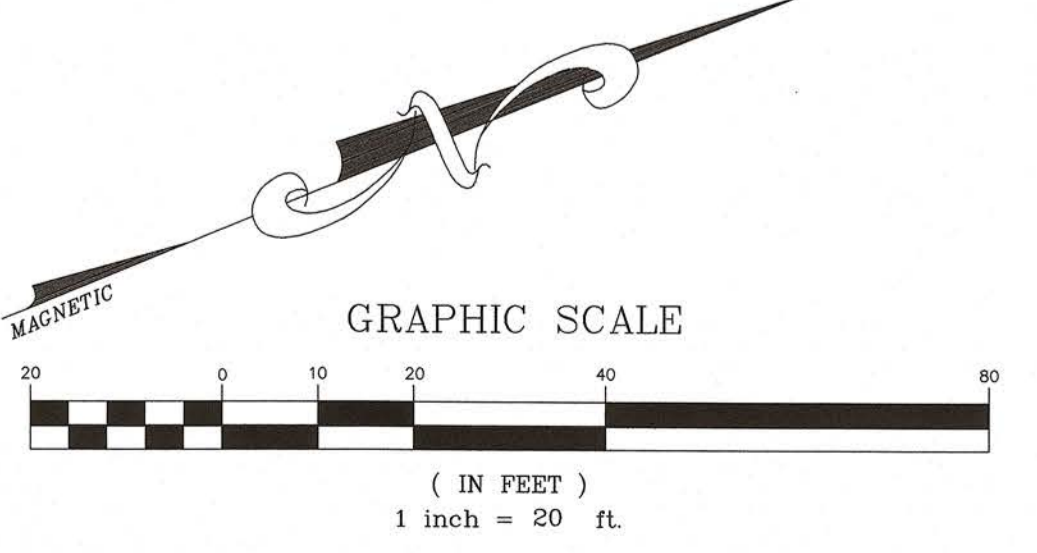
KEY NOTES

- THRUST BLOCKING, TYP. SEE DETAIL SHEET C707.
- EXTEND WATER MAIN TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION/PLUMBING CONNECTION, SEE DETAIL SHEET C707. REFER TO FIRE PROTECTION/PLUMBING PLANS FOR EXACT LOCATION.
- DOWNSPOUT ONTO SPLASH PAD, SEE ARCHITECTURAL PLANS FOR LOCATIONS AND DETAIL ON SHEET C701.
- POST INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C707 AND SPECS.
- FIRE DEPARTMENT CONNECTION, SEE DETAIL SHEET C706.
- 8" x 6" TAPPING SLEEVE, VALVE AND BLOSSING ASSEMBLY SEE DETAIL SHEET C707 AND SPECIFICATIONS.
- 6-IN FERCO MODEL LFB8V REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C707. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- APPROXIMATE ROUTE OF UNDERGROUND FIBER OPTIC BY LOCAL UTILITY COMPANY. CONTRACTOR SHALL COORDINATE LOCATION, DEPTH AND SCHEDULE WITH LOCAL UTILITY COMPANY.
- 6" GATE VALVE, SEE DETAIL SHEET C707.

WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED DRAINAGE PLAN
Date: 1-21-20 Permit # 2019068
Signed: *E. Lee*

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING <i>Nick Dimith</i>	1/21/20
TRAFFIC <i>W. Amador</i>	1-22-20
FIRE <i>C. Wal</i>	1/22/20



**SAWYER
SHERWOOD
& ASSOCIATE
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910 762-0892 s2a3.com

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Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595



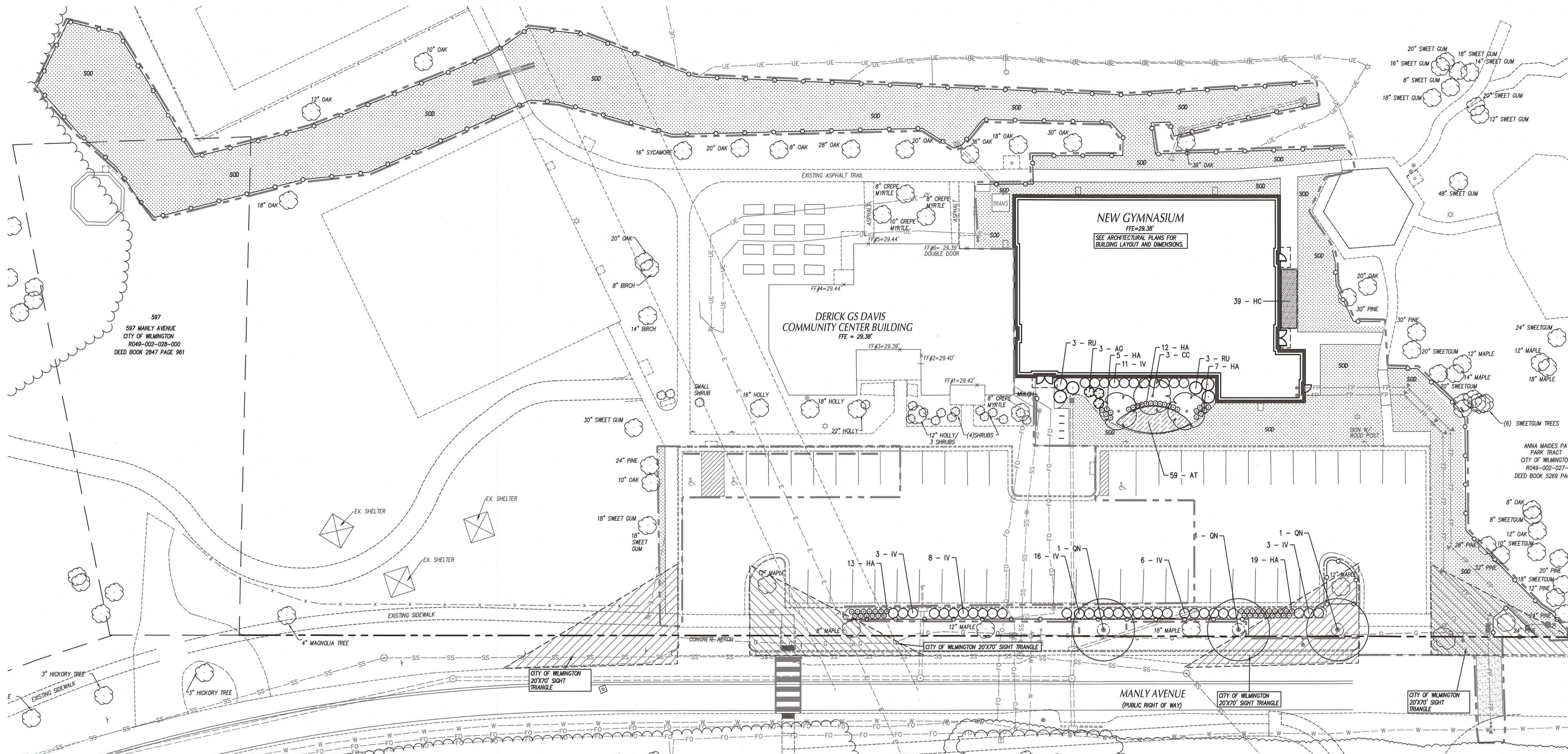
**MAIDES PARK
GYMNASIUM
ADDITION**
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

Revisions:

UTILITY PLAN

C501



GENERAL NOTES-LANDSCAPING

- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSEMEN AND THE WRITTEN SPECIFICATIONS.
- ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4 1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED. ALL PLANTING BEDS TO BE MULCHED WITH A MINIMUM OF 3" OF MULCH.
- ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3" OF BROWN (NON-DYED) TRIPLE SHREDDED HARDWOOD MULCH SHALL BE USED AROUND ALL PLANTINGS WITH THE EXCEPTION OF BUFFER PLANTINGS.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS (I.E. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.) SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- LAWN AREAS SHALL BE SEED WITH RIVERIA OR SUNSTAR BERMUDA GRASS 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
 - REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION
 - REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
 - ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
 - ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDING AREAS. IF DAMAGE OCCURS THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE REPAIRED AND RESEED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
- SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTITUTED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING; IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
- ALL 3:1 SLOPES SHALL BE STABILIZED WITH "NO-MOW" NATURALIZED SEED MIX AND EROSION CONTROL MATTING.
- ALL FOUNDATION SHRUBS AND TREES TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.
- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

LANDSCAPE CALCULATIONS

FOUNDATION PLANTING: WILMINGTON LDO SEC. 18-490		EXISTING TREES RETAINED:
AREA OF BUILDING FACE ADJACENT TO PARKING X 12%		SEE C102
FOUNDATION PLANTING		
BUILDING FACE	= 124.42 LF	BUILDING HEIGHT = 30.75 FT.
BUILDING FACE SF	= 124.42 X 30.75 = 3,825.95 SF	
PLANTING AREA REQUIRED	= 3,825.9 X .12 = 460 SF	
PLANTING AREA PROVIDED	= 645 SF	
LANDSCAPING FOR EXPANSION REQUIREMENTS: WILMINGTON LDO SEC. 18-510		
GREATER THAN 50% INCREASE IN GROSS FLOOR AREA		
TREES REQUIRED: 15 TREES (2" CAL OR GREATER) PER ACRE OF DISTURBED LAND		
STREETYARD: MAX. WOTH: 18', MIN. WOTH: 8', MULTIPLIER: 12		
REQUIRED: 128' STREET - 58' DRIVEWAYS = 288 LF X 12 = 3,216 SF REQ. REQUIRED:		
1 CANOPY TREE & 6 SHRUBS/600 SF = 6 CANOPY TREES & 32 SHRUBS REQUIRED		
EXISTING TREES SAVED: 17 TREES		
PROPOSED TREES: 5 TREES		
EXISTING CANOPY TREES = 3 TREES		
PROPOSED CANOPY TREES = 3 TREES		
SHRUBS = 68 SHRUBS		
BUFFER PLANTINGS: NO BUFFER PLANTINGS REQUIRED		
INTERIOR LANDSCAPING: WILMINGTON LDO SEC. 8% REQUIRED		
PARKING AREA: 15,000 SF		
.08 X 15,000 = 1,200 SF REQUIRED		
1,235 SF INTERIOR LANDSCAPING PROVIDED		
TREE REMOVAL		
SEE SHEET C102 FOR TREE REMOVAL CALCULATIONS		
A TREE REMOVAL/PRESERVATION PERMIT IS REQUIRED PRIOR TO REMOVING ANY TREES. CONTRACTOR SHALL OBTAIN & COMPLETE PERMIT. CONTACT CITY OF WILMINGTON ZONING DEPARTMENT TO OBTAIN COPY OF PERMIT. ENSURE TO PROVIDE COPY OF TREE REMOVAL CHART WITH PERMIT.		

PLANT SCHEDULE

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING
AT	59	Asclepias tuberosa Butterfly Milkweed	CONT.	QT. 24" o.c.
HC	39	Heuchera x 'Citronelle' Yellow Coral Bells	CONT.	#1 24" o.c.

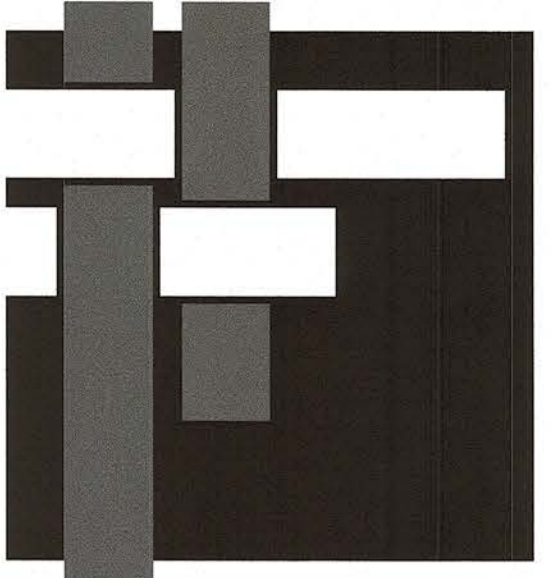
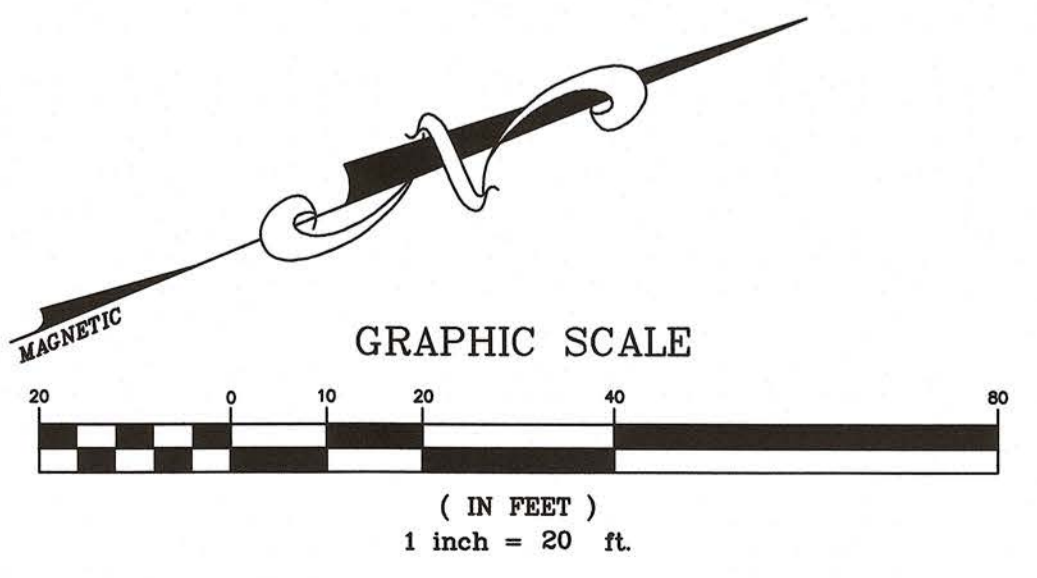
PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT.	CAL.	SIZE
ON	3	Quercus nuttallii Nuttall Oak	B&B		
ORNAMENTAL TREES	QTY	BOTANICAL / COMMON NAME	CONT.	CAL.	SIZE
CC	3	Cercis canadensis 'Hearts of Gold' Forest Pansy Redbud	B&B	2.0"	8-10' HT
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	
AG	3	Abelia x grandiflora 'Rose Creek' Rose Creek Abelia	CONT.	#3 18-24"	
HA	56	Hemerocallis x 'Always Afternoon' Lavender Dwarfy	CONT.	#3 12-15"	
IV	42	Ilex vomitoria 'Vana' Dwarf Yaupon	CONT.	#1 24-36" HT.	
RU	6	Rhaphiopsis umbellata Yedda Hawthorn	CONT.	#1 36-48" HT.	

CITY OF WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED DRAINAGE PLAN
Date: 1-22-20 Permit # 2019068
Signed: *E. S. Lee*

APPROVED CONSTRUCTION PLAN

NAME	DATE
<i>Wendy D. Smith</i>	1/22/20
TRAFFIC	<i>Wendy D. Smith</i> 1-22-20
FIRE	<i>C. Lee</i> 1/22/20



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SHERWOOD
& ASSOCIATE
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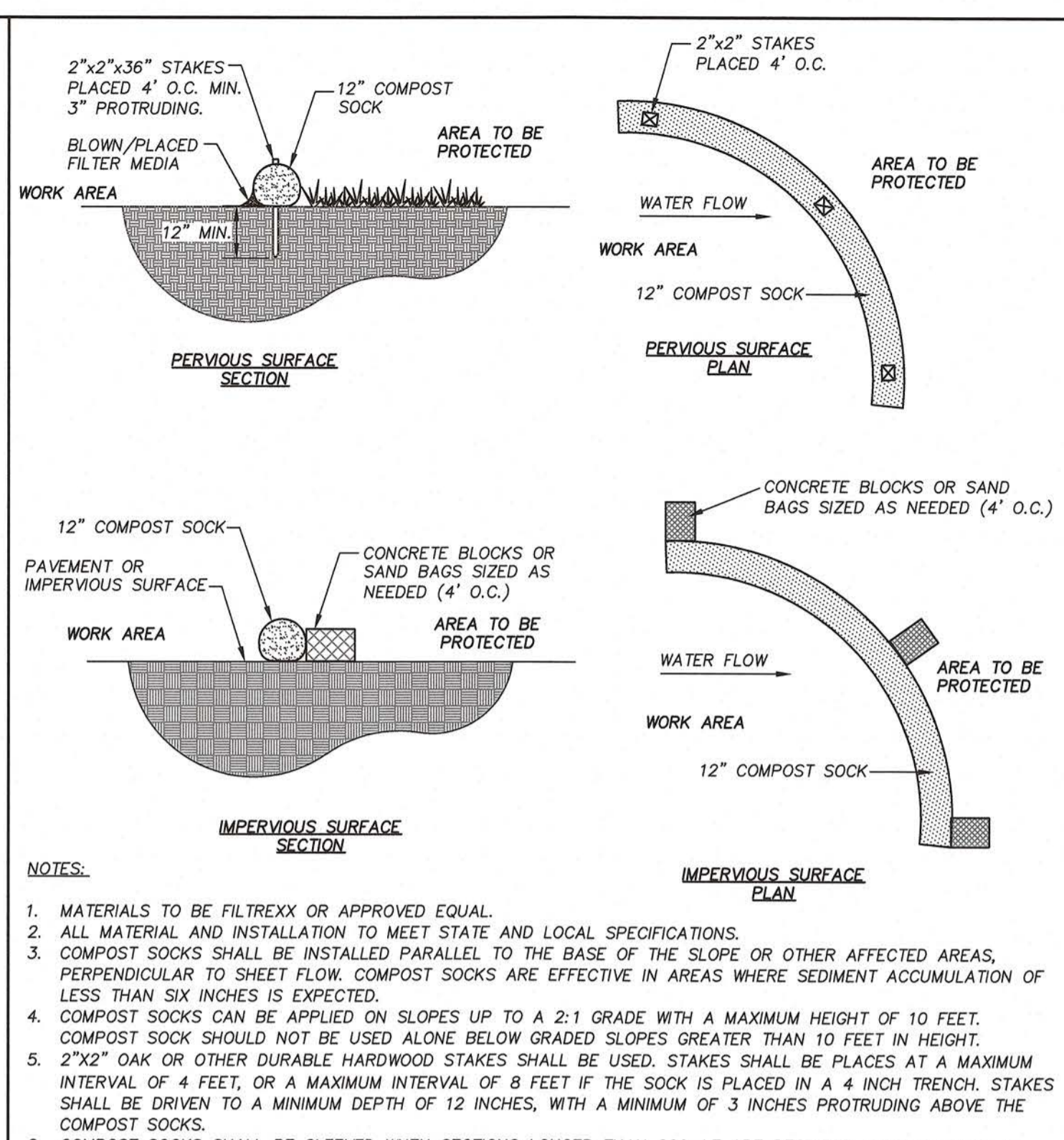
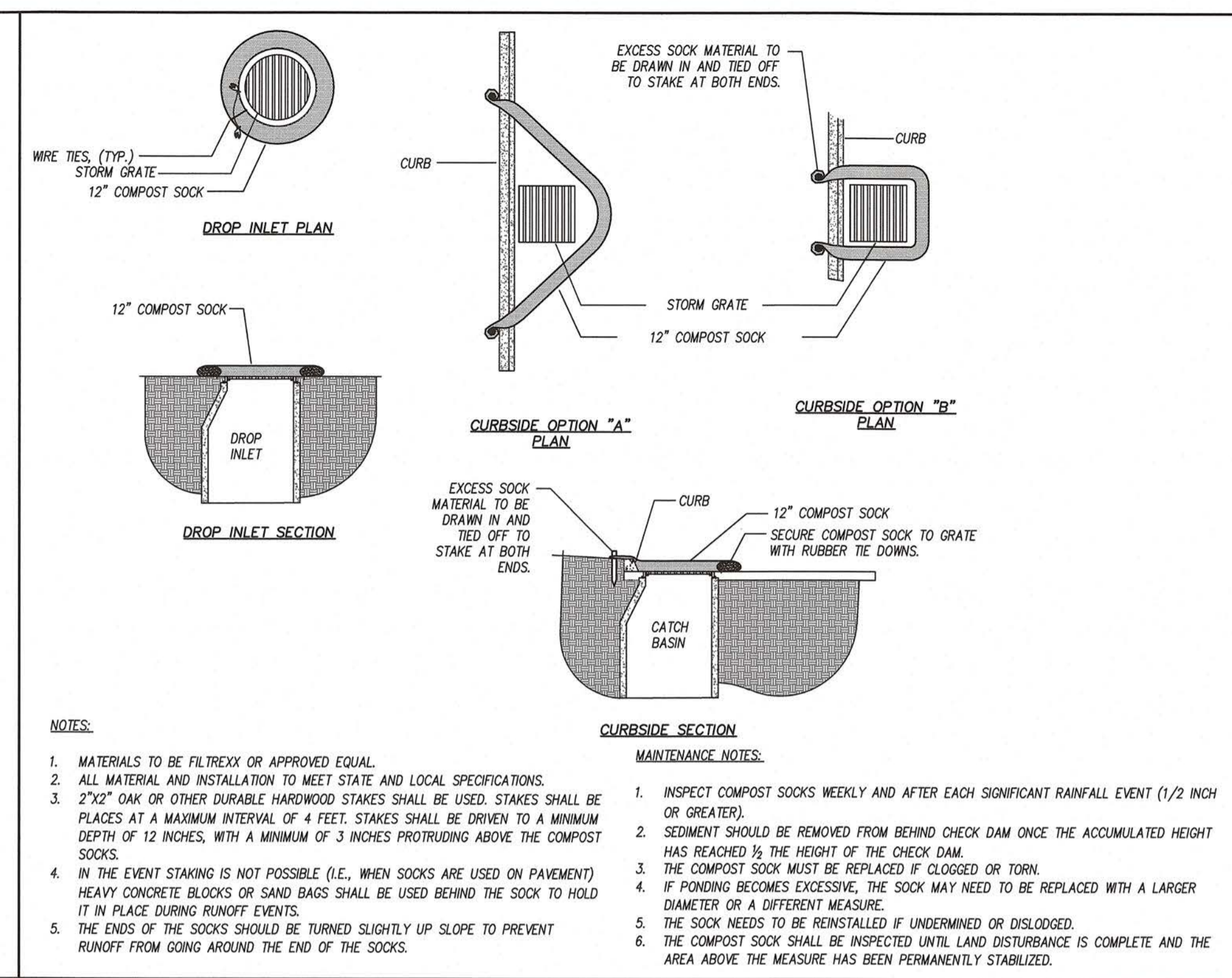
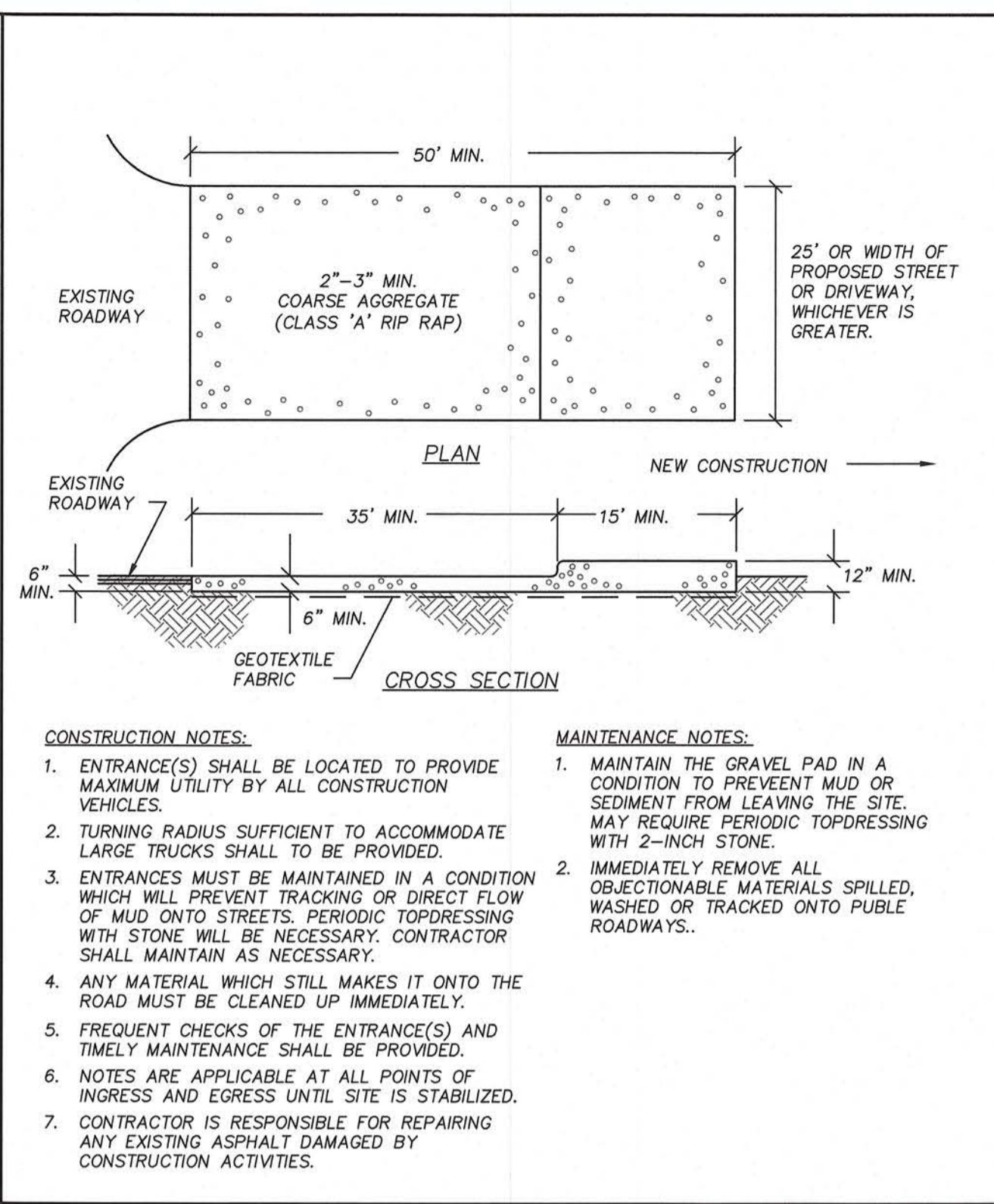
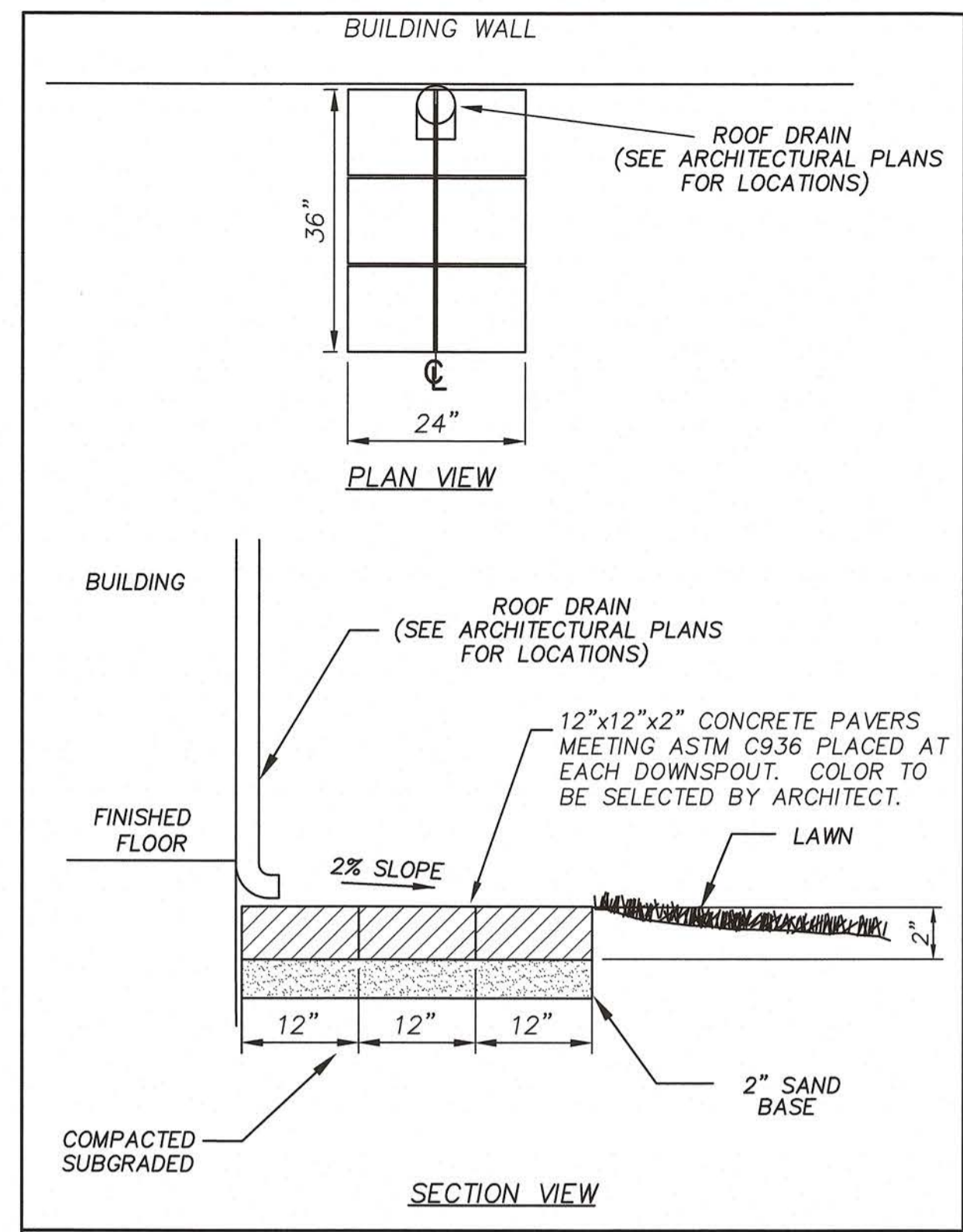
**MAIDES PARK
GYMNASIUM
ADDITION**
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

Revisions:
CITY OF WILMINGTON COMMENTS (01/17/20)

LANDSCAPE PLAN

C601

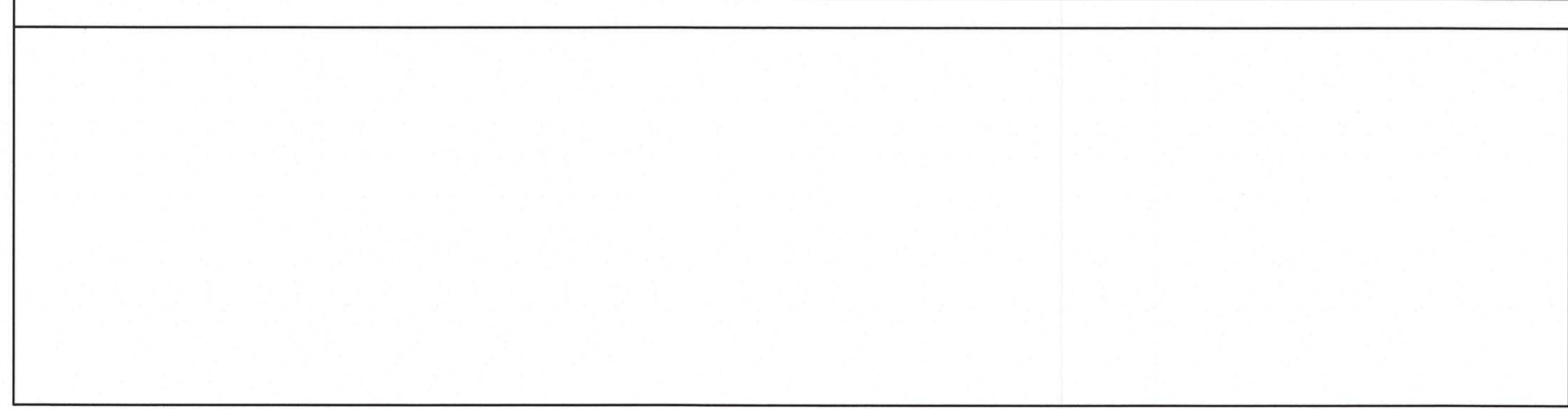
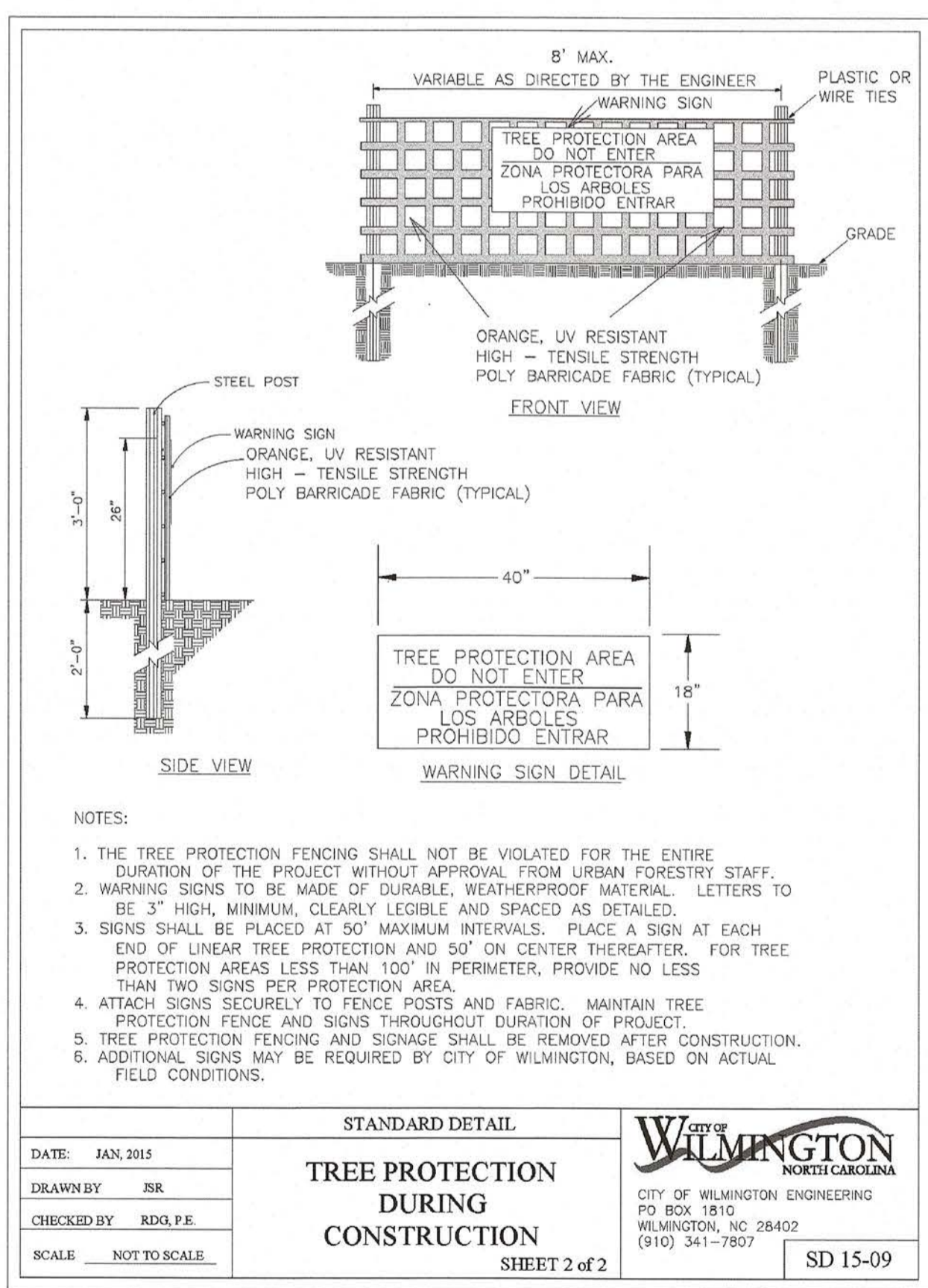
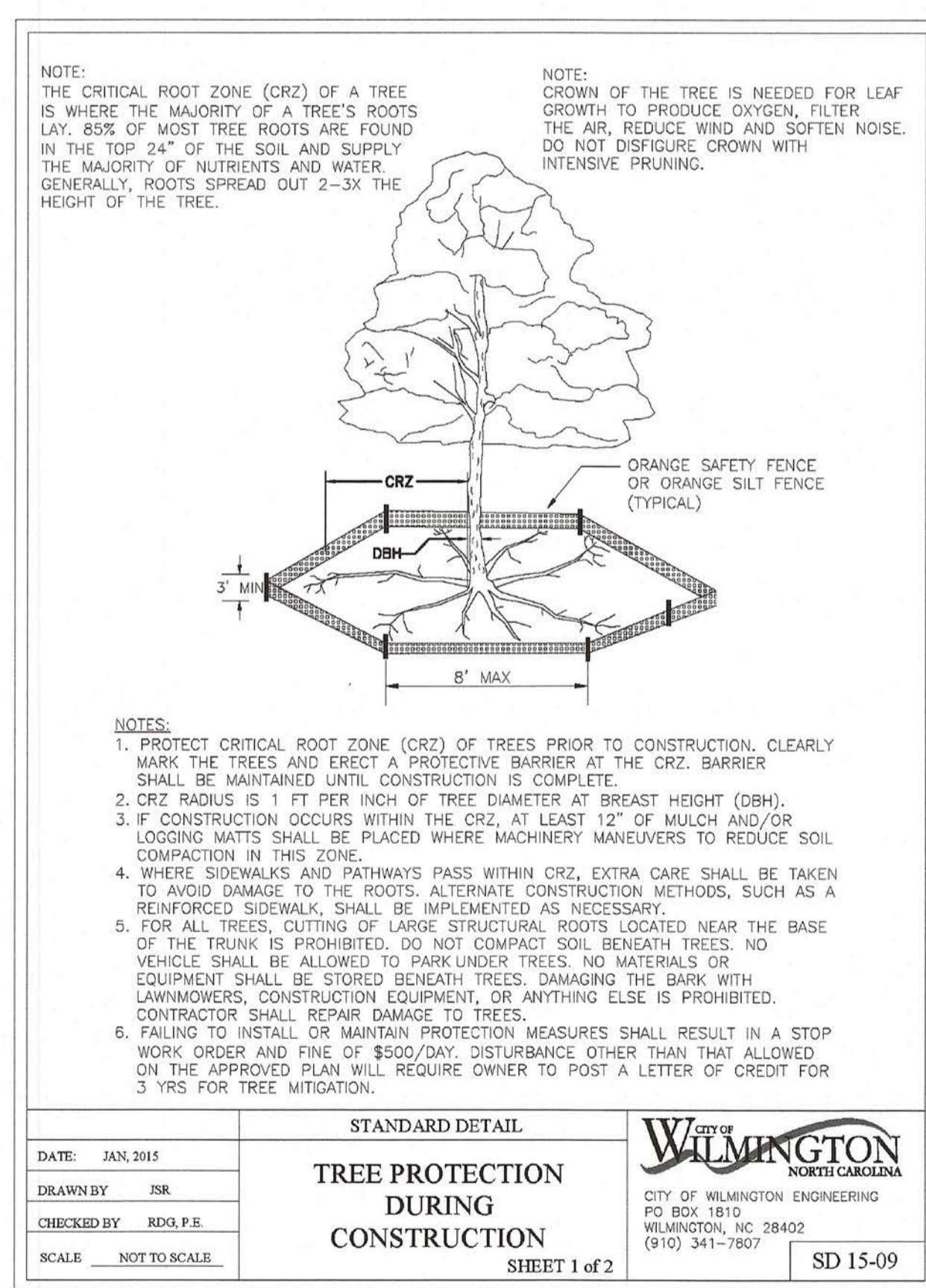


SPLASH BLOCK N.T.S.

CONSTRUCTION ENTRANCE N.T.S.

TEMPORARY COMPOST SOCK INLET PROTECTION N.T.S.

TEMPORARY COMPOST SOCK PERIMETER FENCE N.T.S.



CITY OF WILMINGTON DETAILS

APPROVED STORMWATER MANAGEMENT PLAN
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1-22-20 Permit # 2019068
Signed: [Signature]

APPROVED CONSTRUCTION PLAN
NAME: [Name] DATE: 1/22/20
PLANNING: [Signature] 1/22/20
TRAFFIC: [Signature] 1/22/20
FIRE: [Signature] 1/22/20

C701

DETAILS

NOTES:
1. ALL OPEN STORM DRAIN PIPES SHALL BE PROTECTED AFTER STOPPAGE OF WORK EACH DAY AS ILLUSTRATED.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THE TRENCH BOTTOM REGRADED AND COMPACTED IN ACCORDANCE W/ SPECIFICATIONS PRIOR TO CONTINUANCE OF LAYING PIPE.

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124 Market St, Wilmington, NC 28401
910 762-0892 s2a3.com

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400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-108 PE: C-1595

MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

Revisions:

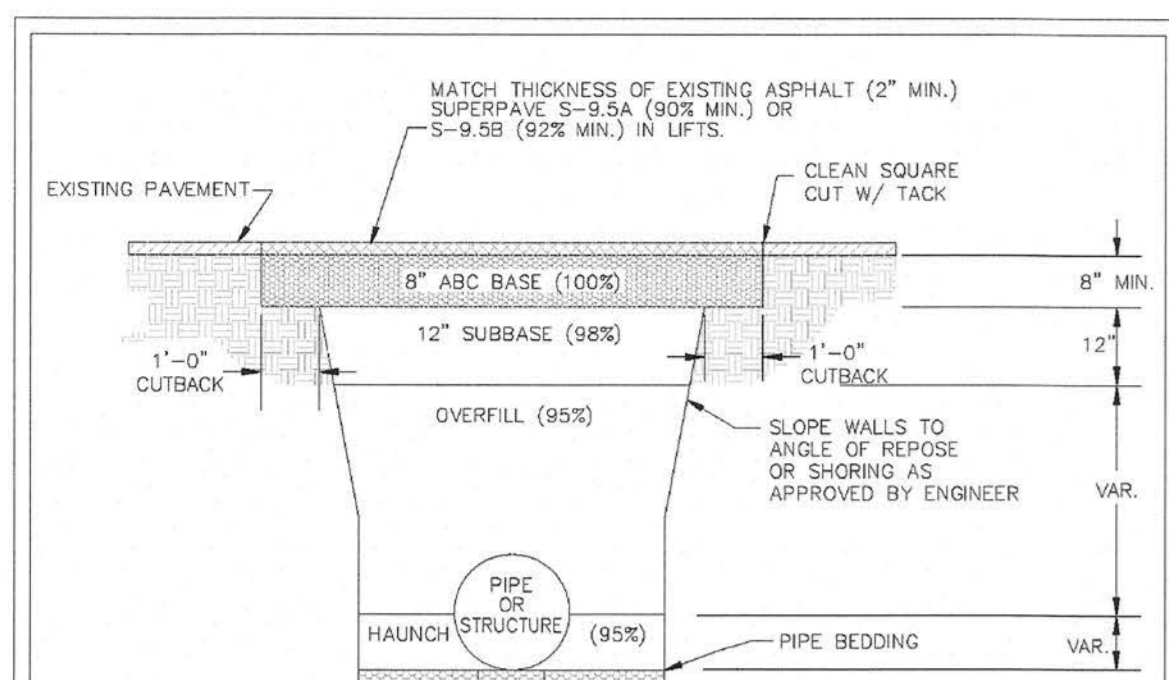
Professional Engineer Seal:
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 23953
KENNETH A. LOHR
1-10-2020

SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE

DETAILS

C701

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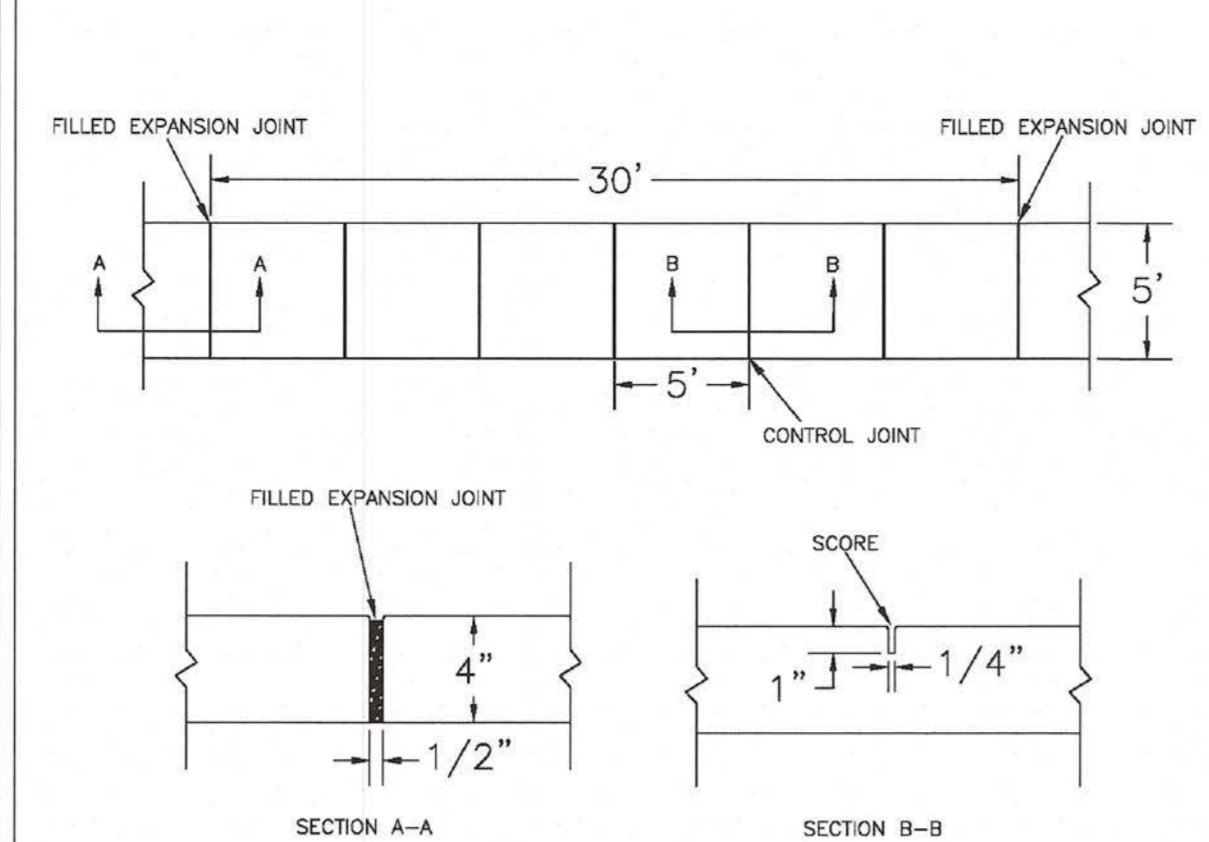
- NOTES:
- CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
 - FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
 - SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION. (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
 - SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
 - ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
 - COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS, AND ASTM D-698-C FOR ABC STONE, AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
 - CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

STANDARD DETAIL
DATE: MAY, 2013
DRAWN BY: JBR
CHECKED BY: D.E.C./PE
SCALE: NOT TO SCALE

PAVEMENT REPAIRS- UTILITY CUTS

CITY OF WILMINGTON
ENGINEERING OFFICE
CITY OPERATIONS CENTER DRIVE
WILMINGTON, N.C. 28402
(910) 341-7807

SD 1-05



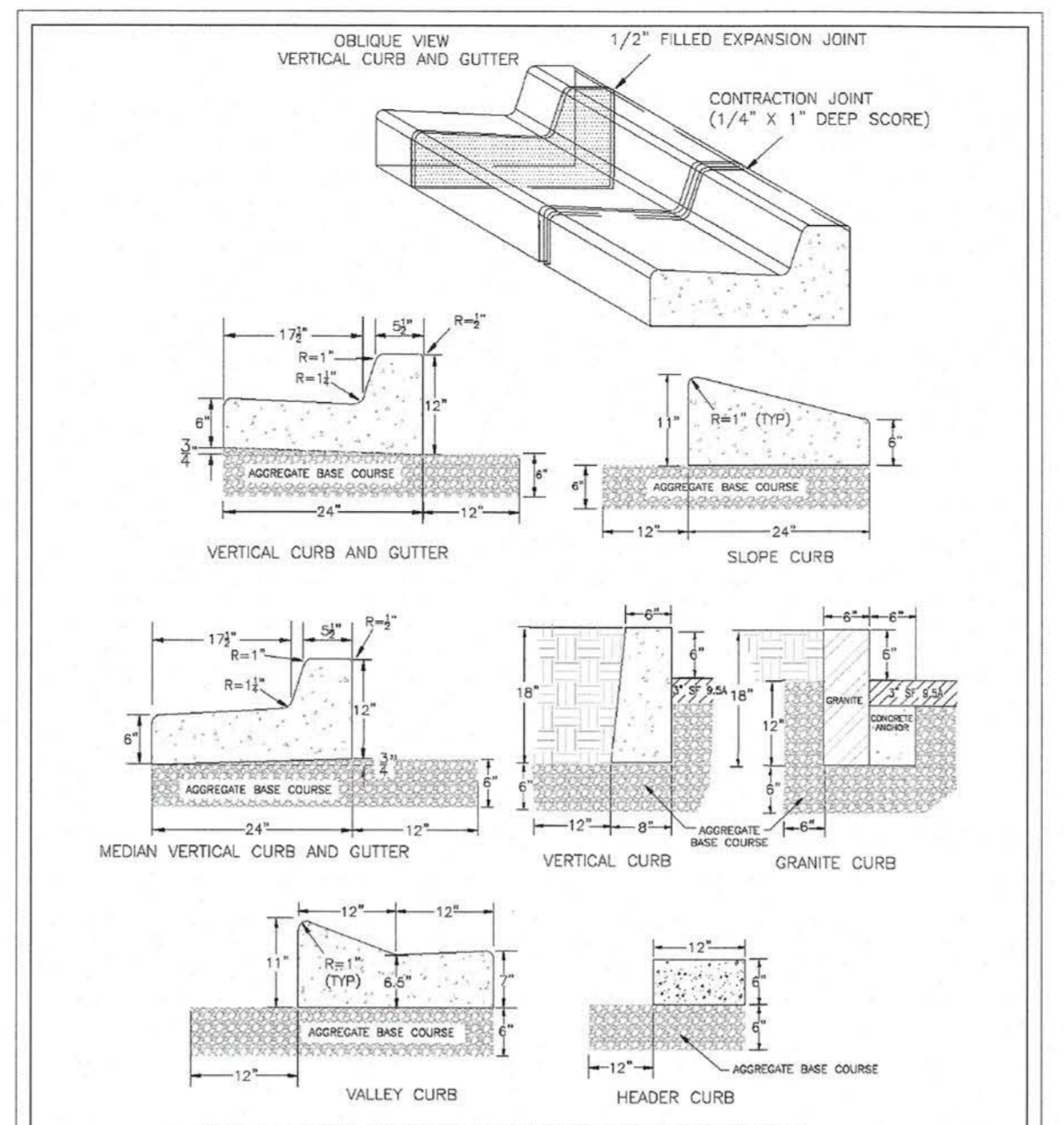
- NOTES:
- JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
 - SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 - MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
 - CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION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

STANDARD DETAIL
DATE: OCTOBER, 2010
DRAWN: P/BSR
CHECKED: DEB
SCALE: NOT TO SCALE

SIDEWALK

CITY OF WILMINGTON
ENGINEERING OFFICE
CITY OPERATIONS CENTER DRIVE
WILMINGTON, N.C. 28402
(910) 341-7807

SD 3-10



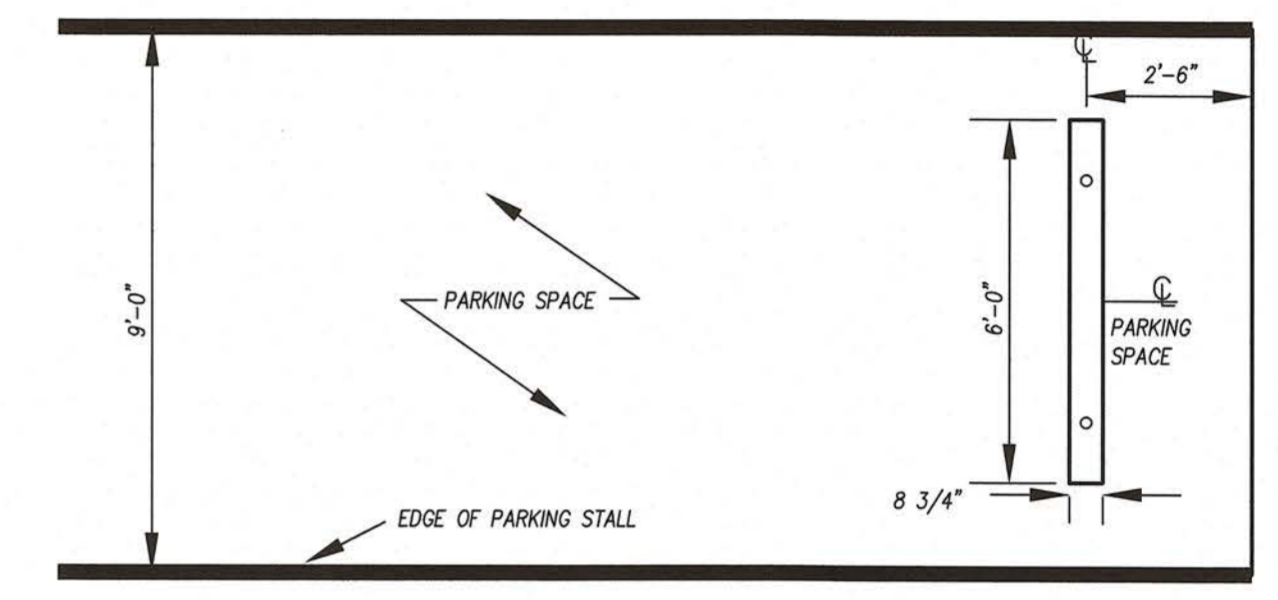
- NOTES:
- EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS
 - 90" MAX EXPANSION JOINT SPACING, 18" MAX CONTRACTION JOINT SPACING
 - MINIMUM INSTALLATION LENGTH IS 5 FT.
 - CONCRETE TO BE 3000 PSI MIN.
 - VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE

STANDARD DETAIL
DATE: AUGUST, 2011
DRAWING: P/BSR
CHECKED: DEB
SCALE: NOT TO SCALE

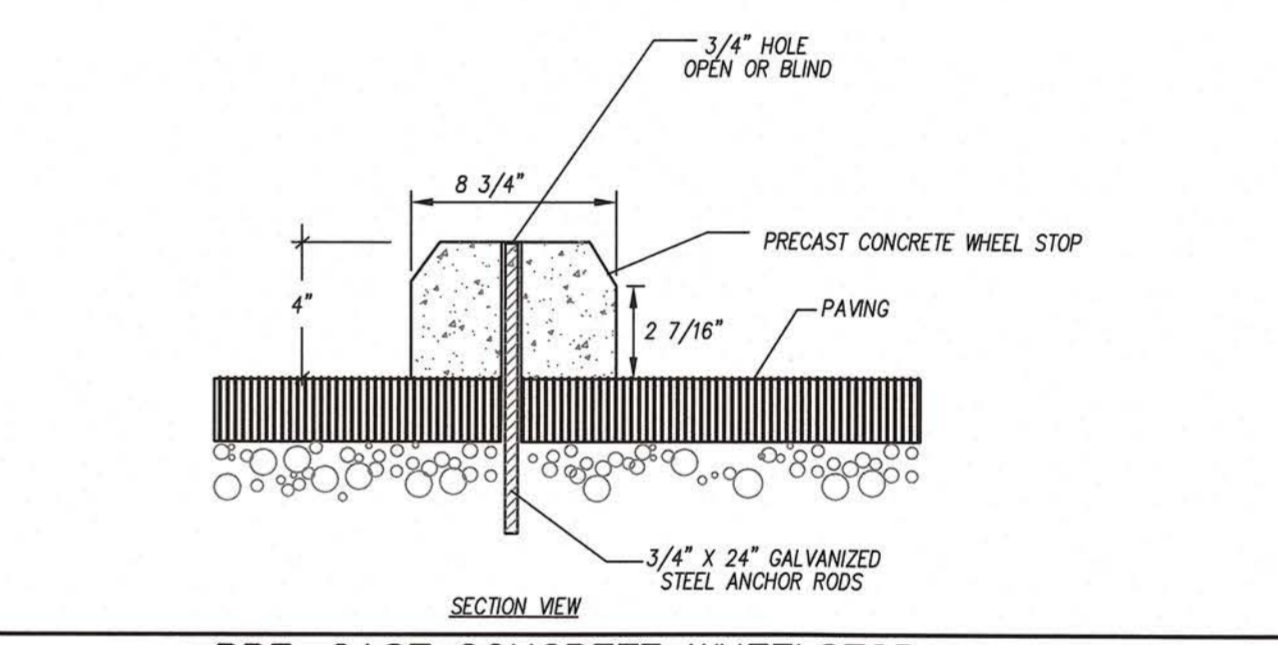
CURBING

CITY OF WILMINGTON
ENGINEERING OFFICE
CITY OPERATIONS CENTER DRIVE
WILMINGTON, N.C. 28402
(910) 341-7807

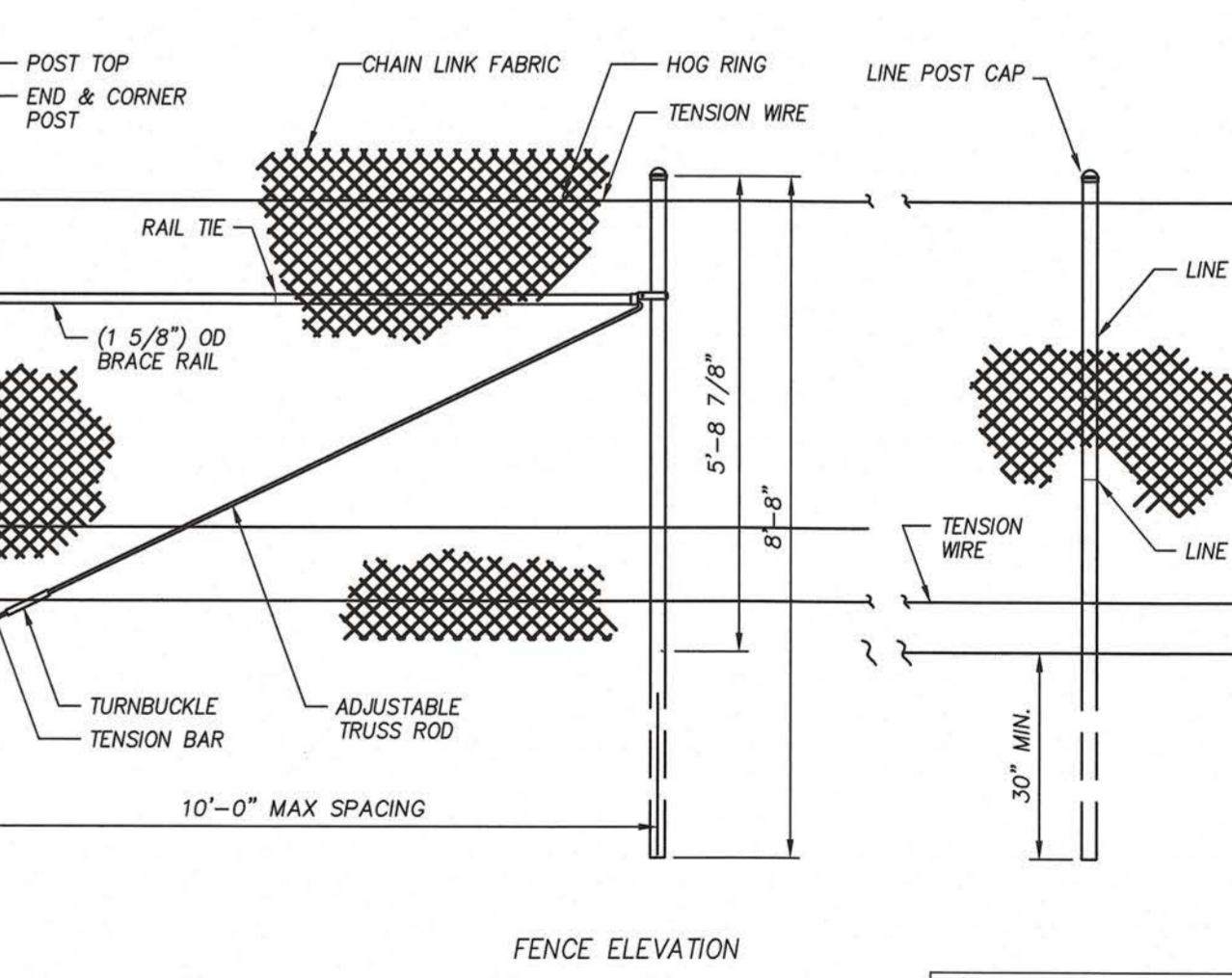
SD 3-11



80 PARKING SPACE PLAN VIEW



PRE-CAST CONCRETE WHEELSTOP N.T.S.



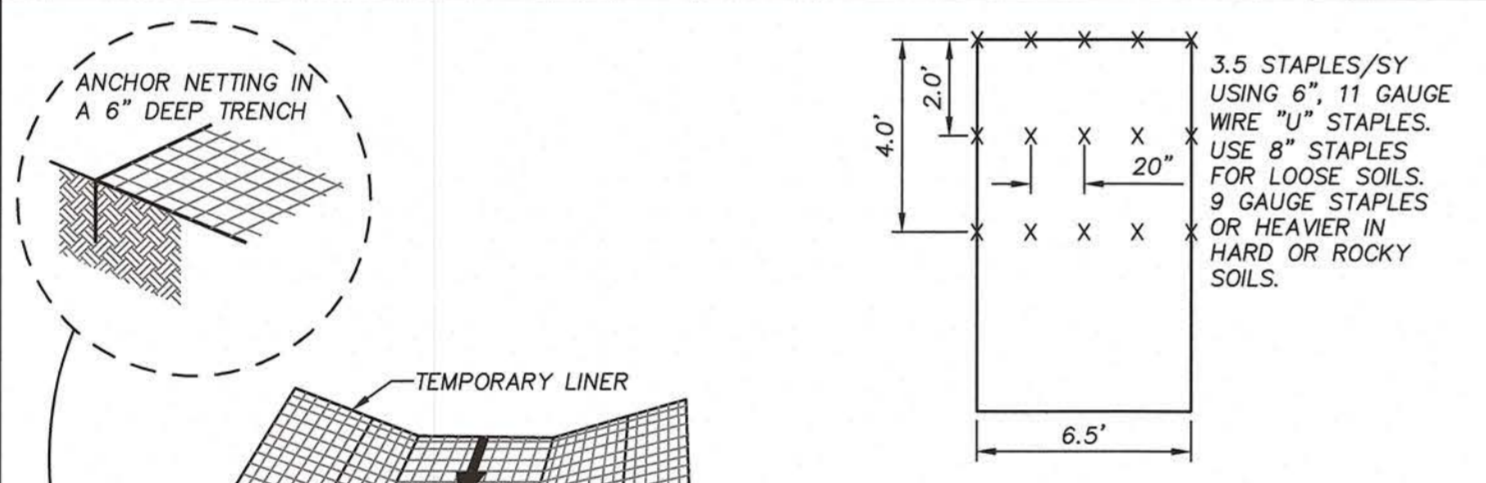
- NOTES:
- STEEL CHAIN-LINK FENCE FABRIC: MAXIMUM 2-1/4" MESH, MINIMUM 0.106" DIAMETER (#12 GAUGE).
 - END/CORNER POSTS: 2.875" OUTSIDE DIAMETER STEEL PIPE.
 - LINE POSTS: 2.375" OUTSIDE DIAMETER STEEL PIPE.
 - TENSION WIRE: 7 GAUGE COATED COIL SPRING TENSION WIRE. WIRE TIES: TIE FABRIC TO RAILS & BRACES 24" ON CENTER. TO THE FABRIC TO TENSION WIRE, USE HOG RINGS SPACED 24" ON CENTER.
 - DRIVE POSTS DIRECTLY INTO FIRM GROUND. CONCRETE FOOTINGS SHALL BE UTILIZED AS NEEDED TO STABILIZE POSTS. STABILITY OF POSTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO ENSURE SAFE BARRIER.

CITY OF WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1-22-20 Permit # 2019068
Signed: E. S. R.

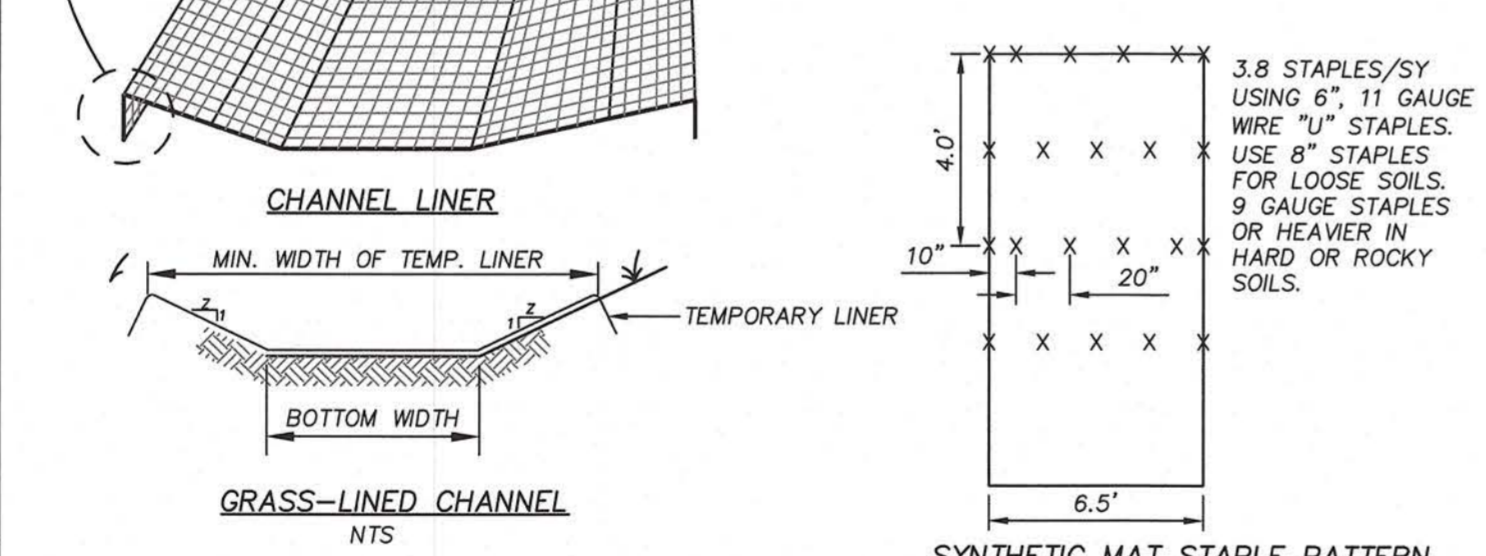
APPROVED CONSTRUCTION PLAN

NAME: [Signature] DATE: 1/22/20
TRAFFIC: [Signature] 1-22-20
FIRE: [Signature] 1/22/20

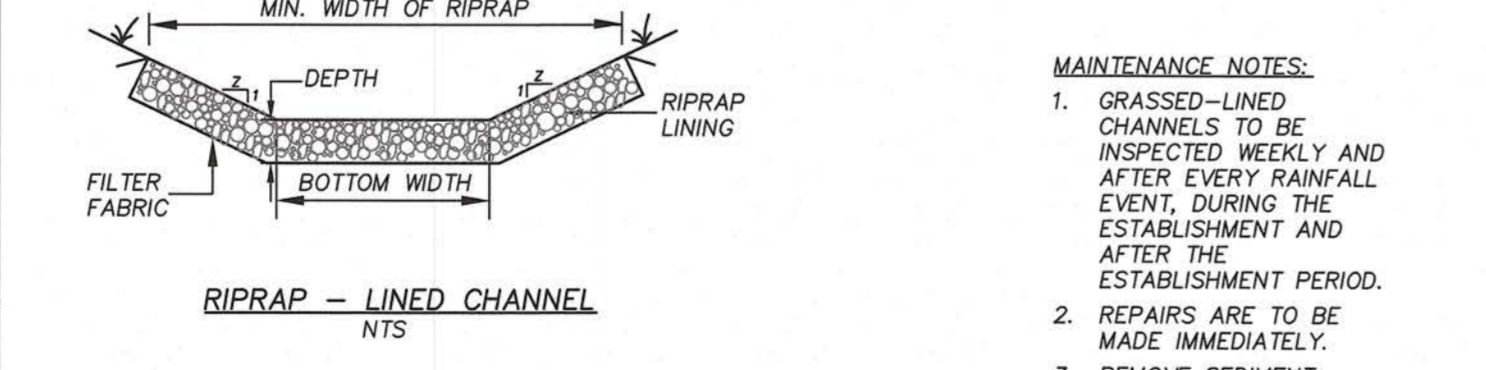
CITY OF WILMINGTON DETAILS



EXCELSIOR MAT STAPLE PATTERN N.T.S.



SYNTHETIC MAT STAPLE PATTERN N.T.S.



GRASS-LINED CHANNEL N.T.S.

- MAINTENANCE NOTES:
- GRASS-LINED CHANNELS TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT, DURING THE ESTABLISHMENT AND AFTER THE ESTABLISHMENT PERIOD.
 - REPAIRS ARE TO BE MADE IMMEDIATELY.
 - REMOVE SEDIMENT ACCUMULATIONS TO MAINTAIN DESIGNED CARRYING CAPACITY.
 - GRASS IS TO BE HEALTHY AND IN VIGOROUS CONDITIONS AT ALL TIMES.

CONSTRUCTION NOTES:

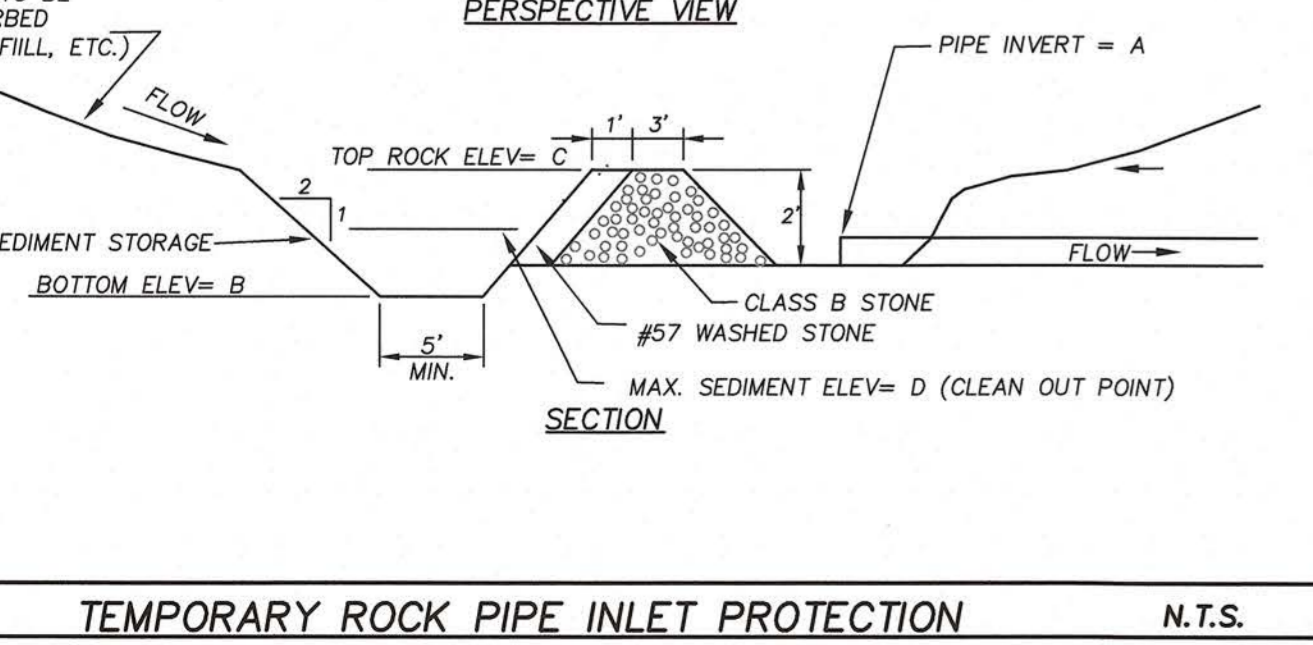
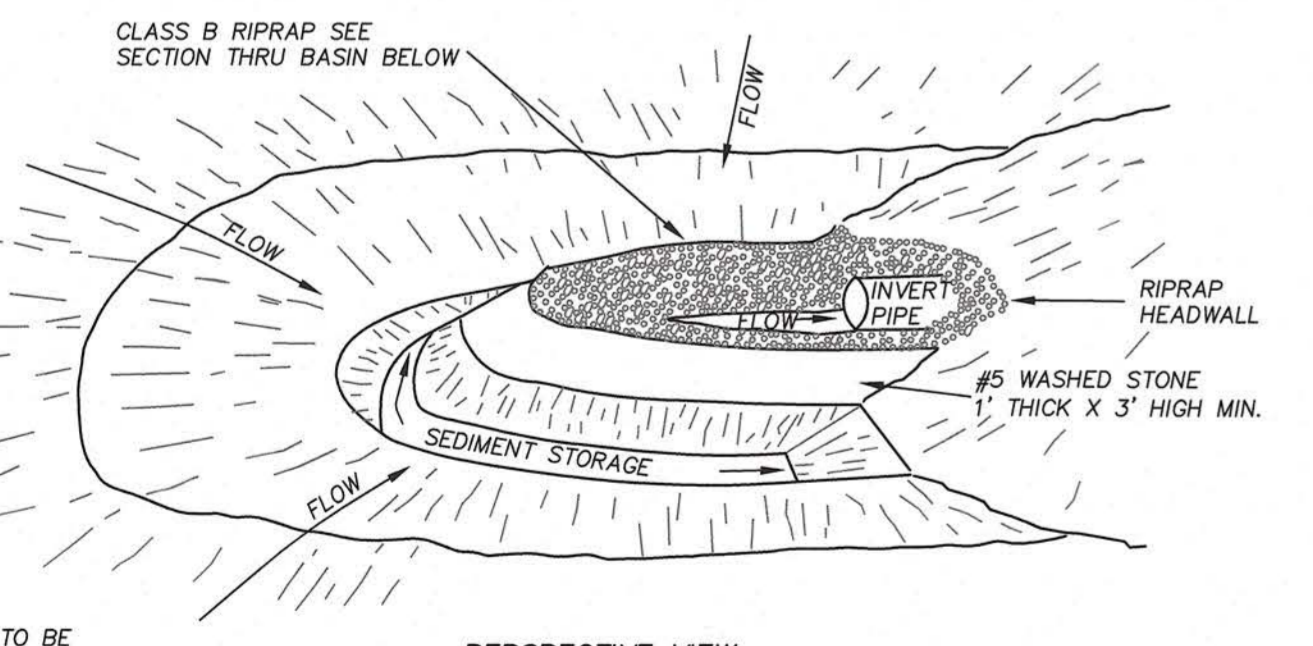
- SEE SPECIFICATIONS FOR TEMP. LINING, RIPRAP AND FILTER FABRIC REQUIREMENTS.
- RIPRAP CHANNELS SHALL BE OVER-EXCAVATED RIPRAP TO BE PLACED FLUSH WITH PROPOSED CHANNEL GRADE.
- ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
- PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
- FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
- MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
- THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)	RIPRAP DEPTH (IN)
1	4	3:1	0.42%	530 LF GRASS	STRAW W/NET	10	N/A
2	0	3:1	0.50%	168 LF GRASS	STRAW W/NET	6	N/A

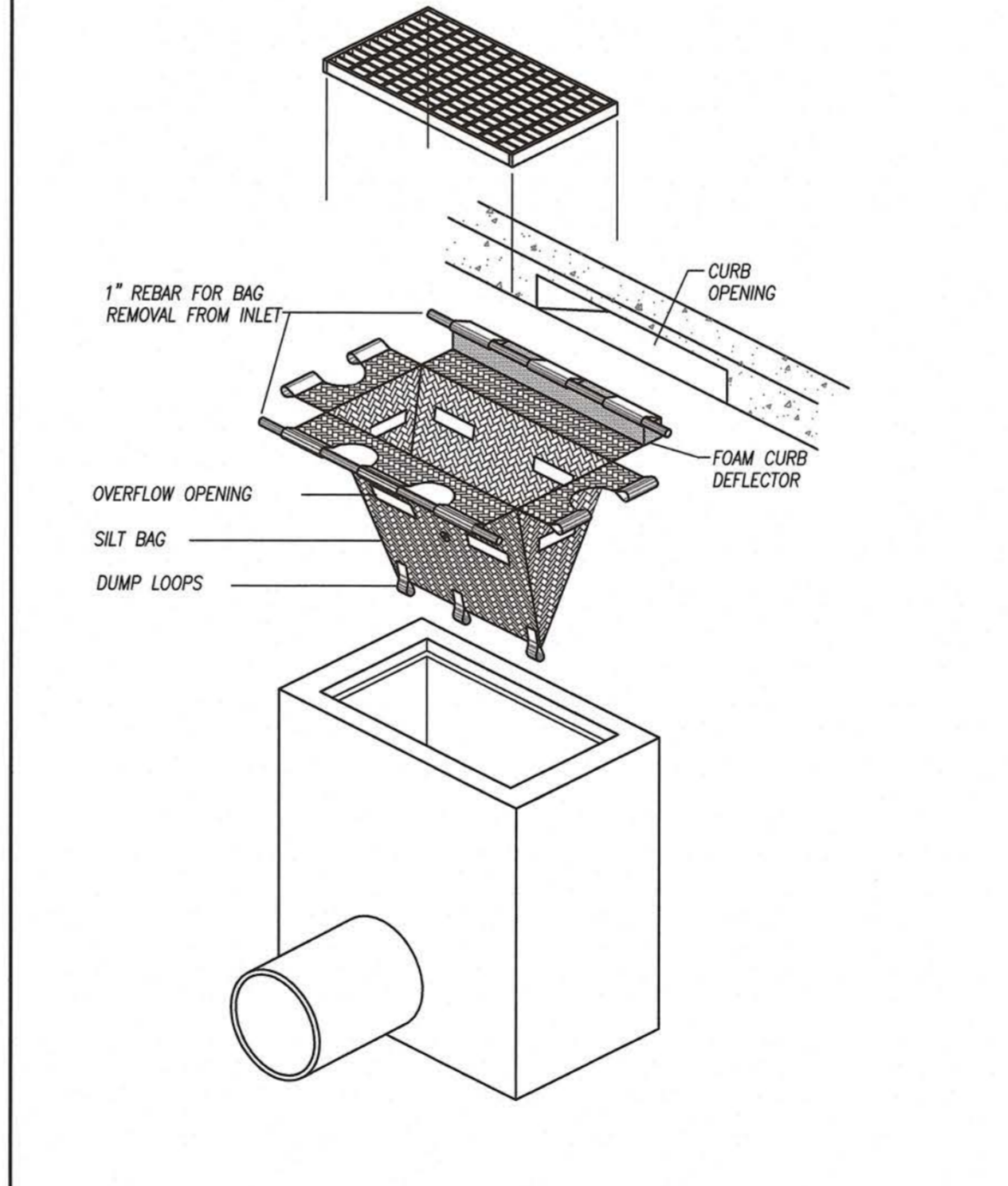
CHANNEL SECTION N.T.S.

- MAINTENANCE NOTES:
- INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND REPAIR IMMEDIATELY.
 - REMOVE SEDIMENT AND RESTORE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP.
 - CHECK THE STRUCTURE FOR DAMAGE AND REPLACE ANY DISPLACED RIPRAP IMMEDIATELY.
 - APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

BASIN NUMBER	INLET NUMBER	A (FT)	B (FT)	C (FT)	D (FT)
1	(2) 15" RCP	26.06	24.56	28.06	26.31

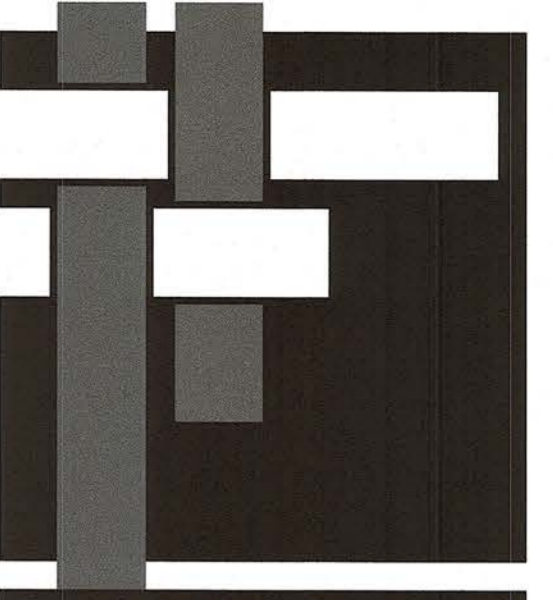


TEMPORARY ROCK PIPE INLET PROTECTION N.T.S.



- NOTES:
- CONTRACTOR TO INSPECT SILT BAG EVERY TWO WEEKS OR AFTER EVERY SUBSTANTIAL RAIN EVENT.
 - CONTRACTOR TO REMOVE AND DISPOSE OF COLLECTED SILT AT AN ACCEPTABLE OFF SITE LOCATION.
 - COLLECTED SEDIMENT TO BE REMOVED ROUTINELY TO ENSURE FUNCTIONALITY OF SILT BAG.
 - DEVICE SHALL BE MANUFACTURED FROM WOVEN POLYPROPYLENE GEOTEXTILE TO FIT THE OPENING OF A CATCH BASIN OR DROP INLET TO FILTER SEDIMENT FROM RUNOFF ENTERING THE INLET. DEVICE SHALL BE PROVIDED WITH AN INTEGRAL CURB DEFLECTOR IF INSTALLED AT A CATCH BASIN WITH A VERTICAL OPENING ADJACENT TO A HORIZONTAL GRADE.
 - THE DEVICE SHALL BE A HIGH FLOW "SILTSACK" AS MANUFACTURED BY ACF ENVIRONMENTAL, INC. OR APPROVED EQUAL.
 - INSTALL DEVICE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND INSTALL A CURB DEFLECTOR IF APPROPRIATE.
 - INSPECT DEVICE AFTER EACH RAIN EVENT AND AT INTERVALS NOT EXCEEDING TWO WEEKS DURING CONSTRUCTION. REMOVE, EMPTY, CLEAN, AND REPLACE THE DEVICE AS NEEDED DURING CONSTRUCTION. EMPTY COLLECTED SEDIMENT IN APPROVED, PROTECTED LOCATION. REMOVE AND DISPOSE OF DEVICE FOLLOWING FULL AND PERMANENT STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA.

SILT BAG INLET PROTECTION N.T.S.



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Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595



MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

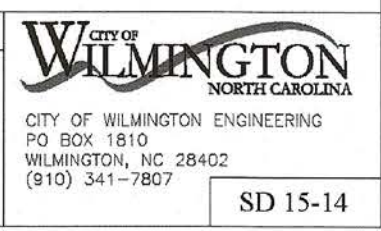
Construction Documents
January 10, 2020

Revisions:

DETAILS

C702

- No plantings over thirty (30) inches in height allowed in vision clearance.
- Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.
- Owner is responsible for maintenance to ensure plant material lives and prospers.
- Planting plans shall be approved by Landscape Designer prior to installation.
- Landscaping shall be required at the ends of all parking rows.
- A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.
- Landscaped islands shall be a minimum width of twelve (12) feet (back of curb to back of curb) and a minimum of two hundred and sixteen (216) square feet.
- A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.
- For recommended Plant List see "Landscape" T-10.4.

STANDARD DETAIL		
DATE	APRIL 2008	
DRAWN BY	JBR	
CHECKED BY	R.P.F.E.	
SCALE	NOT TO SCALE	
LANDSCAPE NOTES		SD 15-14

DATE	TYPE	PLANTING RATE
AUG 15 - APR 15	3-WAY TALL FESCUE BLEND AND WINTER RYE (GRAIN)	240 LBS/ACRE 25 LBS/ACRE
APR 15 - AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN MILLET *** (SMALL-STEMMED VAR.) ***	240 LBS/ACRE 25 LBS/ACRE 30 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENuded AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

TEMPORARY SEEDING SCHEDULE

LAWN AREAS AND ALL DISTURBED AREAS	DATE	TYPE	PLANTING RATE
	APR 15- JULY 15**	HULLED SUNSTAR BERMU DA	85 LBS/ACRE*
	JULY 15- AUG 15	SUNSTAR BERMU DA SPRIGS (WATERING AT CONTRACTORS EXPENSE)	
	AUG 15 - APR 15	TEMPORARY SEEDING APPLIES**	5 BUSHELS/1,000 SF

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

** WHEN SEEDING MUST TAKE PLACE OUT-OF-SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

LAWN MAINTENANCE:
SEE SPEC SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS. LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW IF NOT AT 95%, SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.

PERMANENT SEEDING SCHEDULE- LAWN AREAS

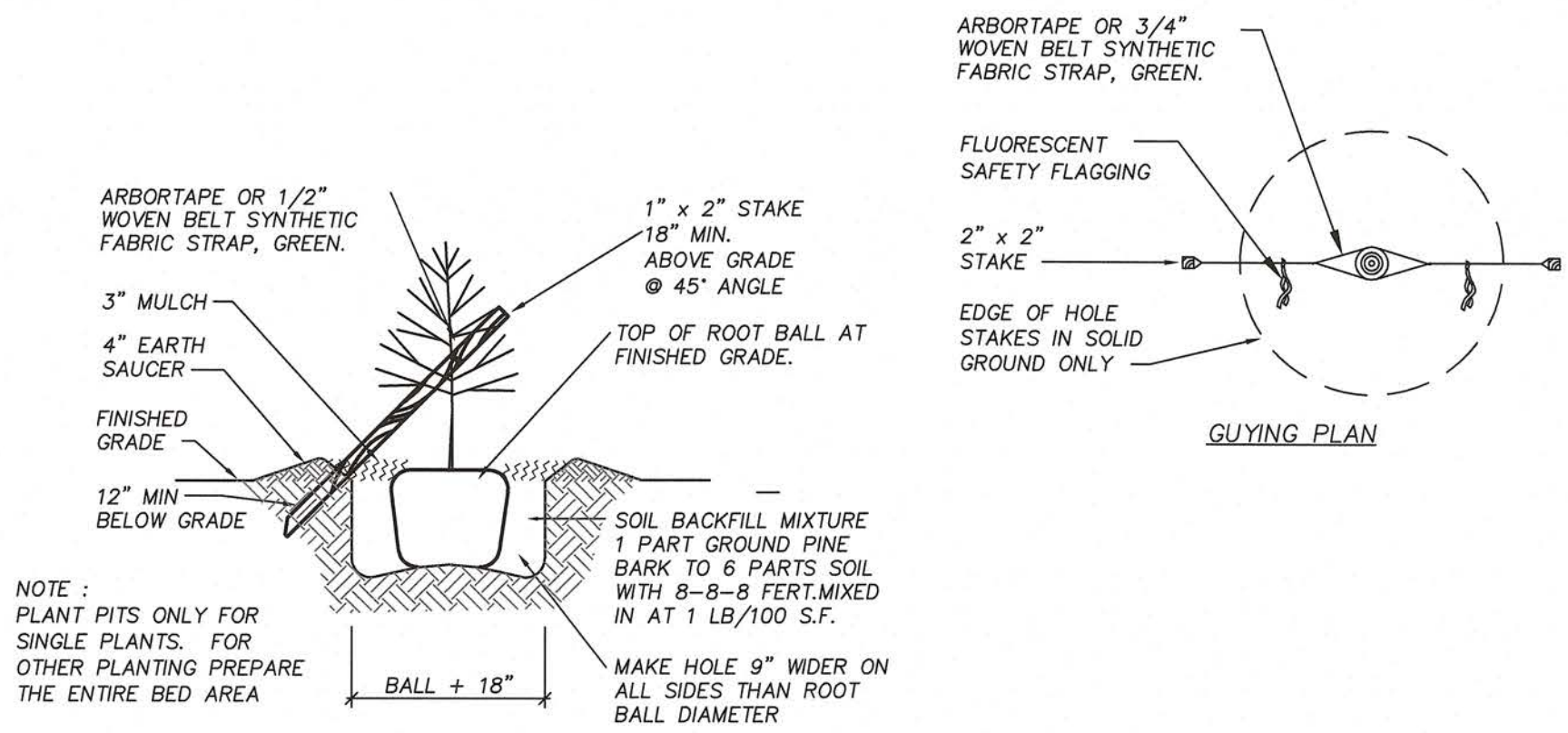
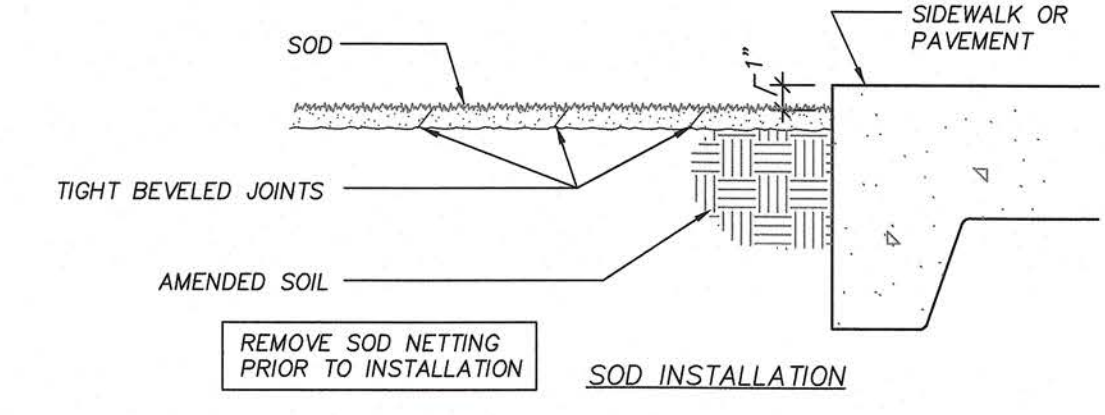
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 2 TONS/ACRE GROUND AGRICULTURAL LIMESTONE (3 TONS/ACRE IN CLAY SOILS) AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

LIME & FERTILIZATION SCHEDULE

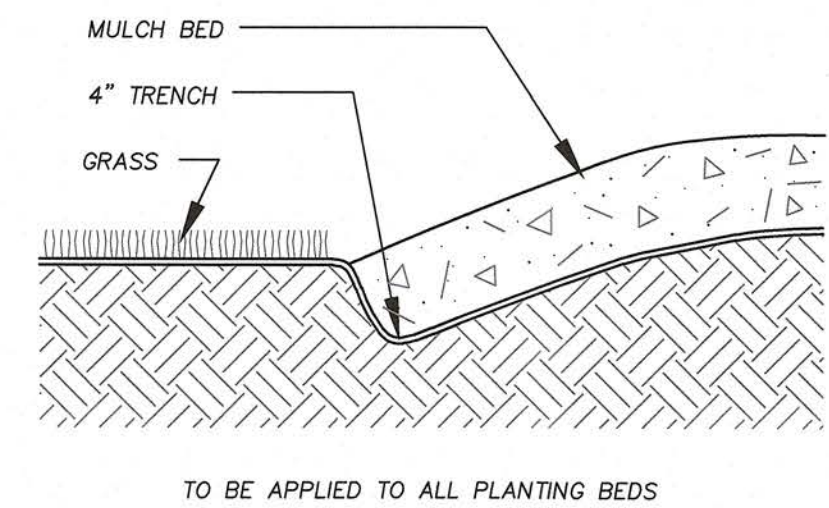
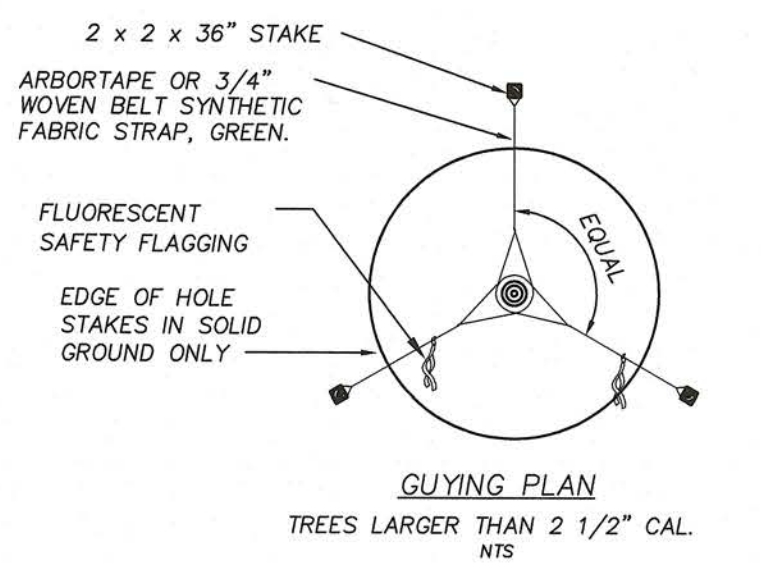
- PERMANENT OR TEMPORARY GROUND COVER SHALL BE PROVIDED OVER ALL DISTURBED AREAS OF THE SITE AS SOON AS POSSIBLE. HOWEVER, NO LATER 21 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED DURING ANY PHASE OF WORK.
- USE EXCELSDOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
- APPLY 4000 LB/ACRE GRAIN STRAW OVER SEEDED AREAS AND APPLY ASPHALT TACKING AT A RATE OF 400 GAL./ACRE.
- MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.

SEEDBED PREPARATION

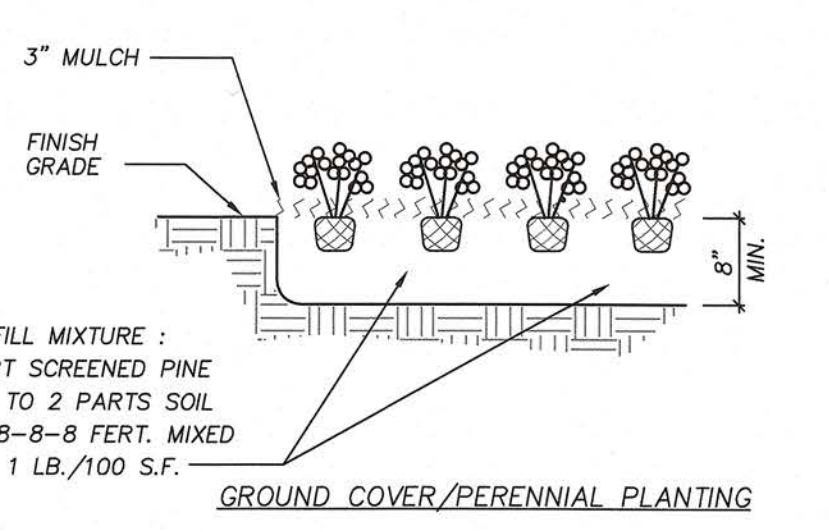
- CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8"
- DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF IMPORTED TOPSOIL. REFER TO SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. CONSTRUCTION EQUIPMENT & TRAFFIC SHALL BE REMOVED PRIOR TO SEEDING.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
- SEED AT RATE SPECIFIED. ACHIEVE AND MAINTAIN MINIMUM 95% COVERAGE PRIOR TO FINAL ACCEPTANCE, AS DETERMINED ON A PER SQUARE YARD SAMPLE BASIS.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE, IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- REFER TO WRITTEN SPECIFICATIONS FOR WARRANTY AND MAINTENANCE OF LAWNS PRIOR TO OWNER'S FINAL ACCEPTANCE.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.



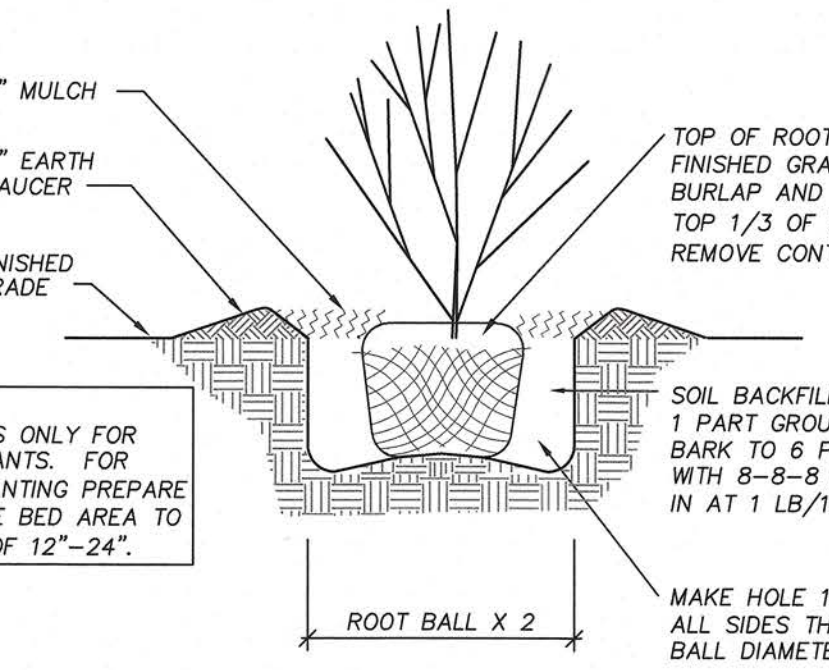
TYPICAL PINE PLANTING



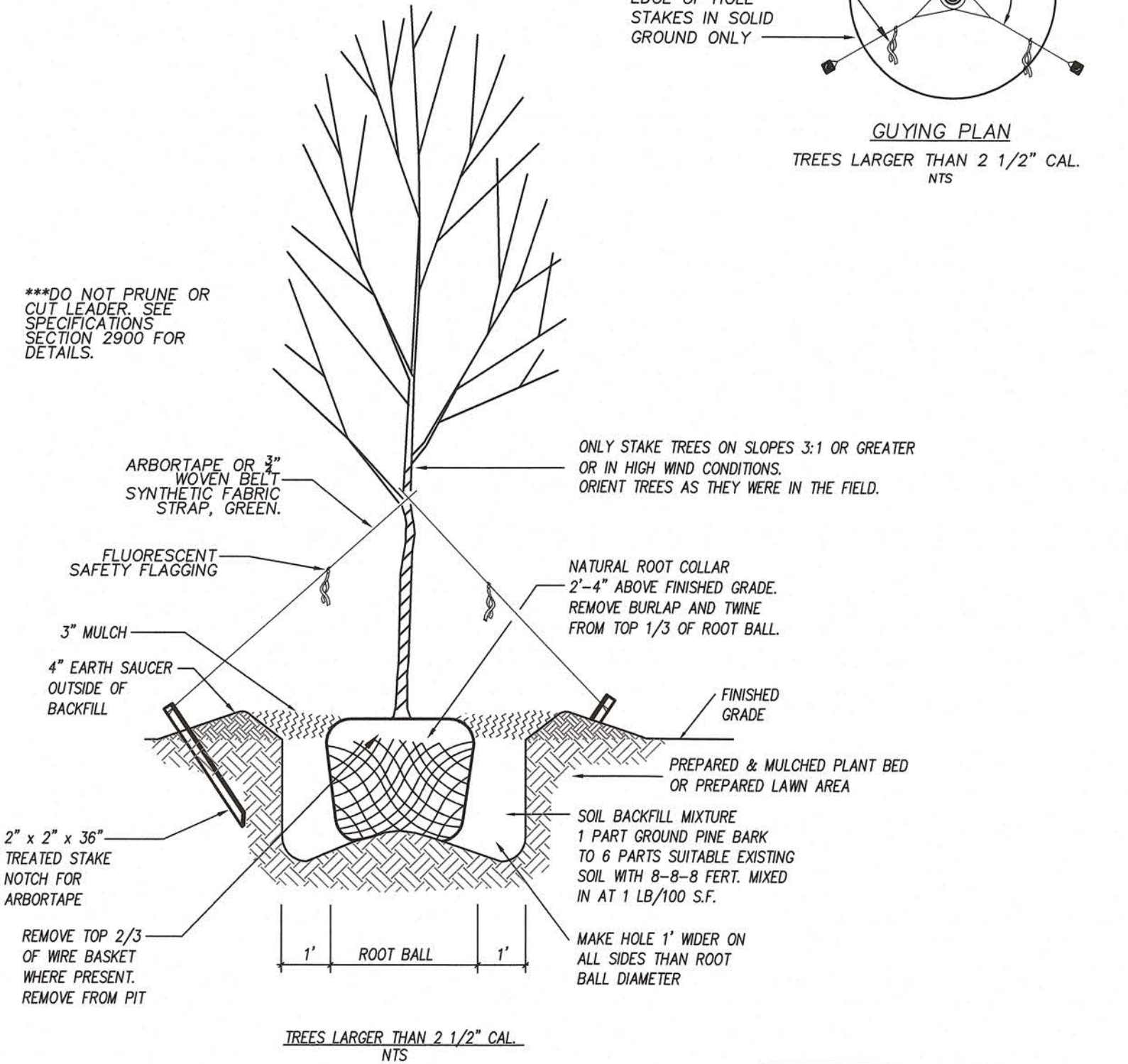
PLANTING BED EDGE



GROUND COVER/PERENNIAL PLANTING

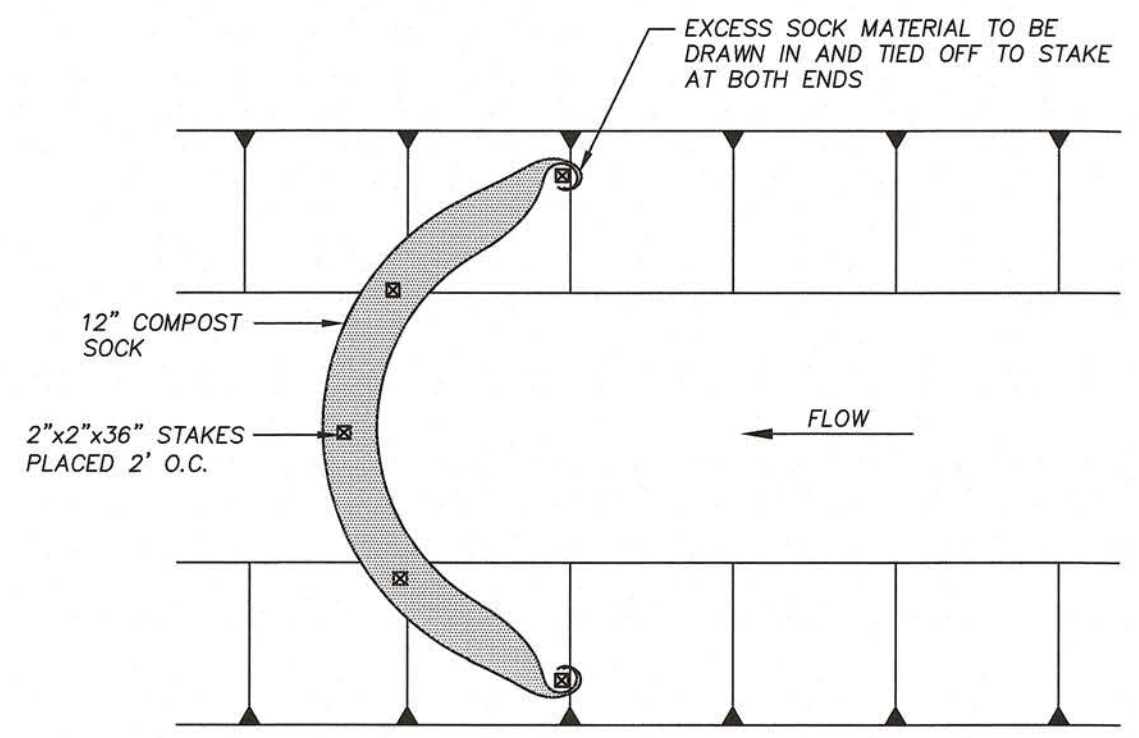


TYPICAL SHRUB PLANTING



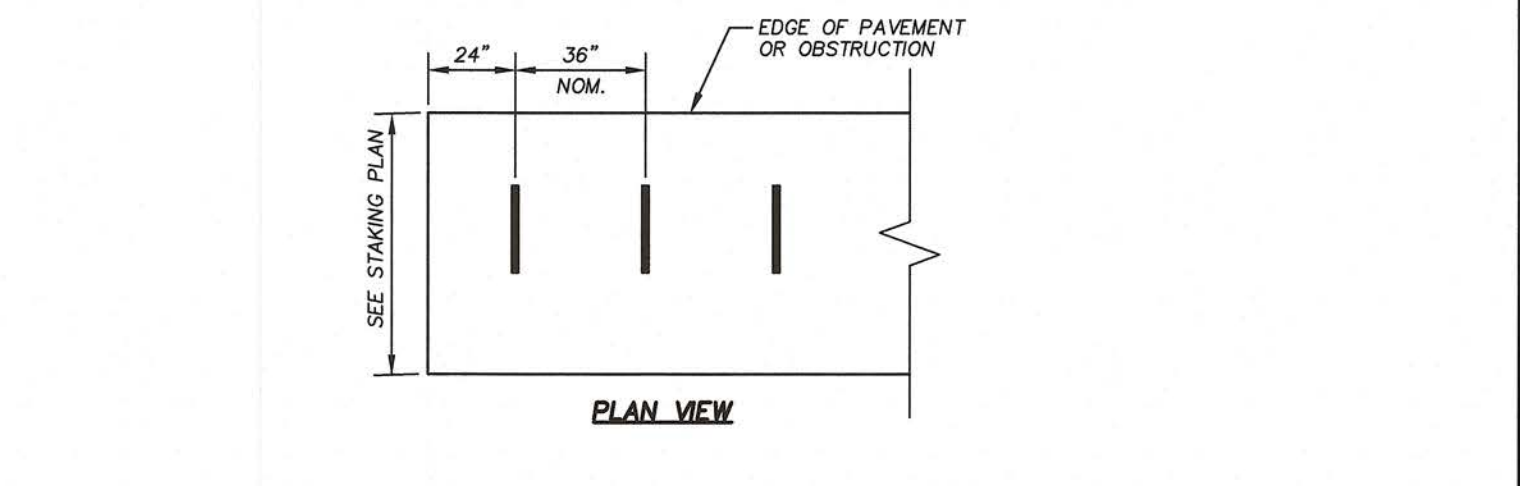
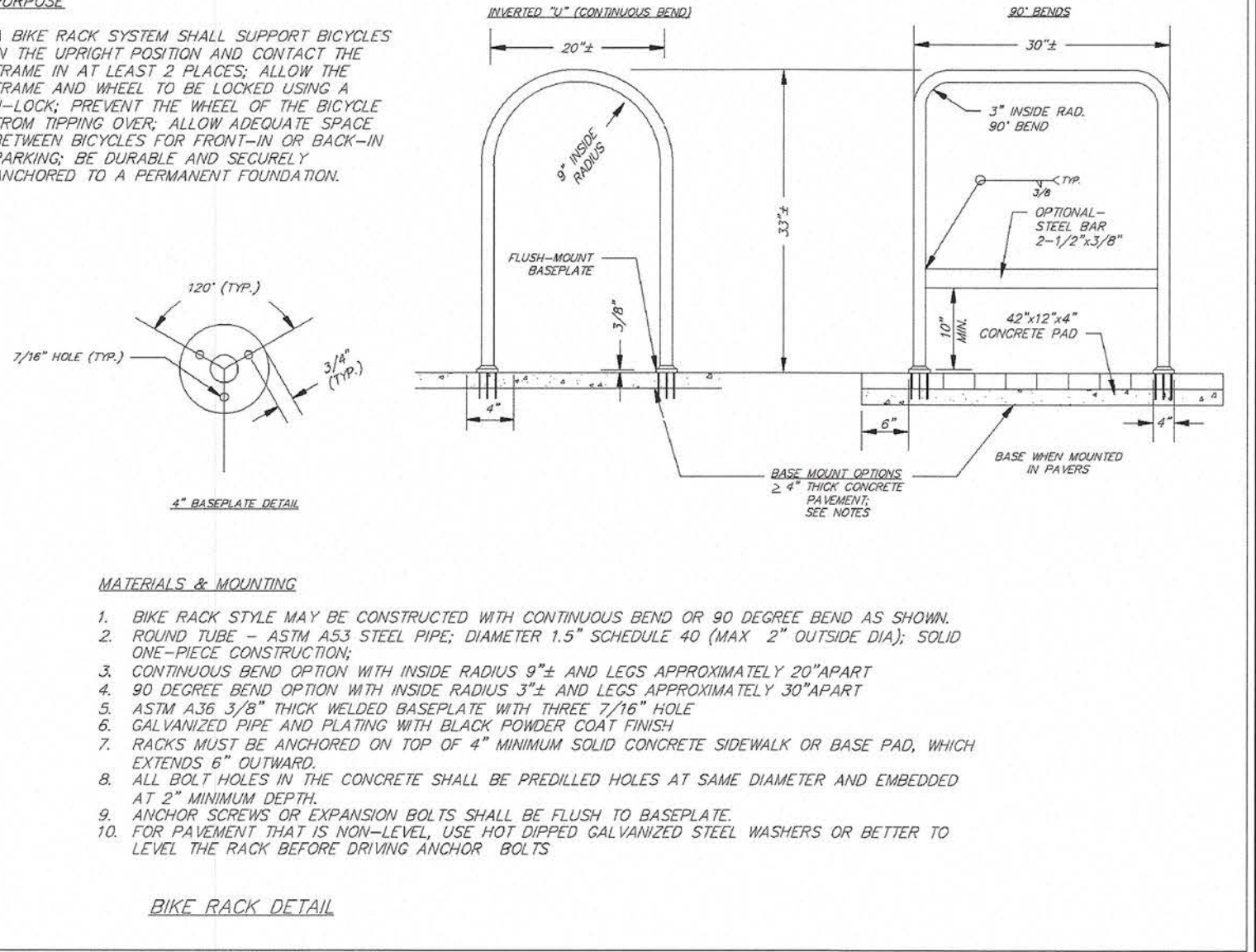
TREES LARGER THAN 2 1/2\"/>

CITY OF WILMINGTON DETAILS



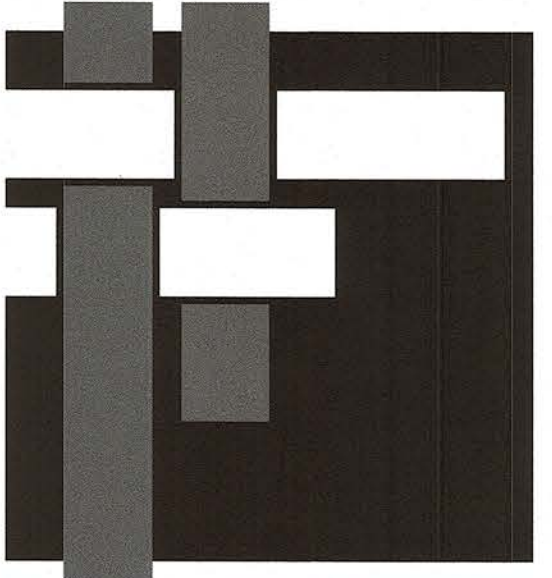
- NOTES:**
- MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
 - ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
 - COMPOST SOCK MAY BE USED AS CHECK DAMS IN DITCHES NOT EXCEEDING 3 FEET IN DEPTH. PRIOR TO SOCK INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION.
 - 2"x2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 2 FEET. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
 - THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
 - CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN TO ACRES OR LESS.
 - CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
- MAINTENANCE NOTES:**
- INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
 - SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
 - THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
 - IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
 - THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLOADED.
 - THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK CHECK DAM N.T.S.



SPECIFICATIONS
RACKS SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR
RACKS TO BE SURFACE MOUNTED PER MANUFACTURER'S INSTRUCTIONS.

BIKE RACK INSTALLATION N.T.S.



SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE

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LA: C-108 PE: C-1595



MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

Revisions:

	
Public Services • Engineering Division	
APPROVED STORMWATER MANAGEMENT PLAN	
Date:	1-22-20 Permit # 2019068
Signed:	<i>E. J. E.</i>
APPROVED CONSTRUCTION PLAN	
NAME	DATE
PLANNING <i>Nicole D Smith</i>	1/22/20
TRAFFIC <i>W. J. Madsen</i>	1-22-20
FIRE <i>C. W. W.</i>	1/22/20

DETAILS

C703

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(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
(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
(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

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> 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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- 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 waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 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.

PAINT AND OTHER LIQUID WASTE

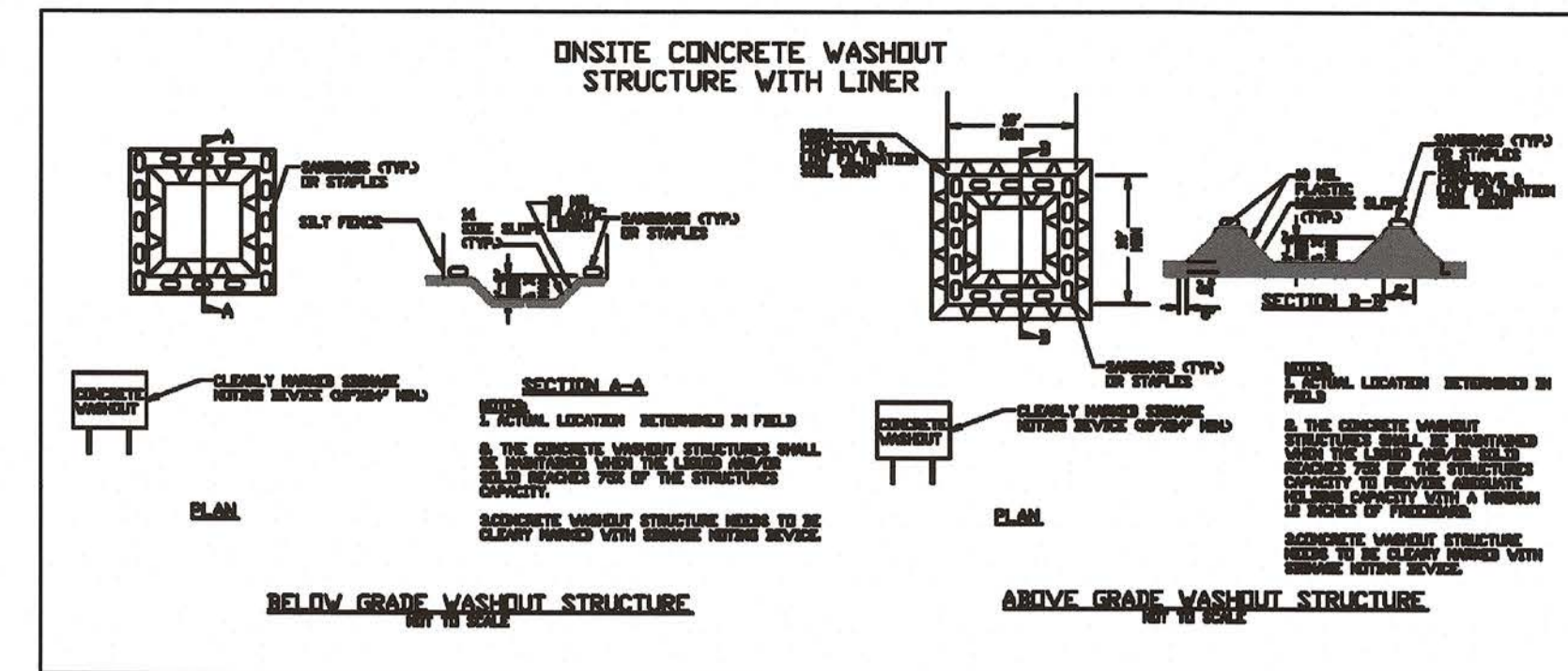
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

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 as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

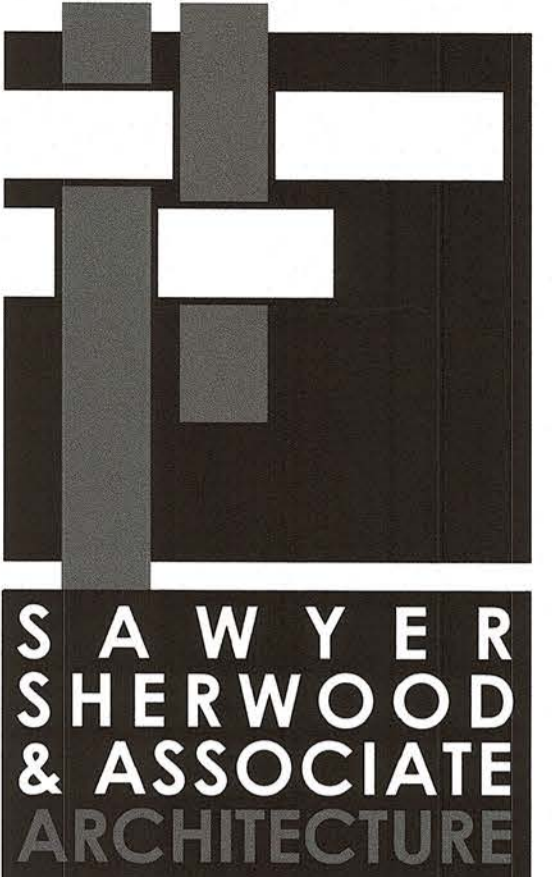
- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19



APPROVED CONSTRUCTION PLAN	
NAME	DATE
PLANNING <i>W. Lee</i>	<i>1/22/20</i>
TRAFFIC <i>W. Lee</i>	<i>1-22-20</i>
FIRE <i>C. Lee</i>	<i>1/22/20</i>



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MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

Revisions:

DETAILS

C704

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**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(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 unattended 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 approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	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: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	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.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date 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.
(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.
(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 ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(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.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).

- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

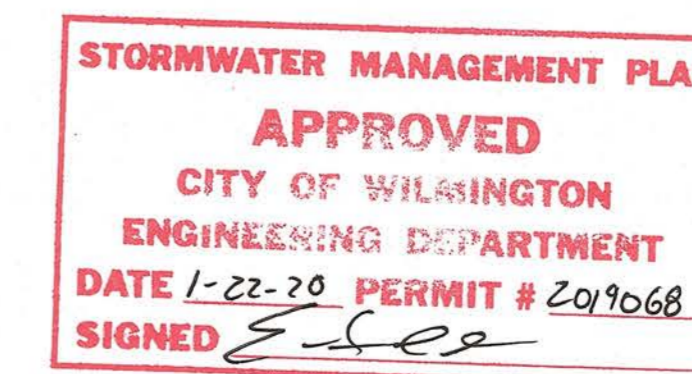
- (b) Anticipated bypasses and unanticipated bypasses.

- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

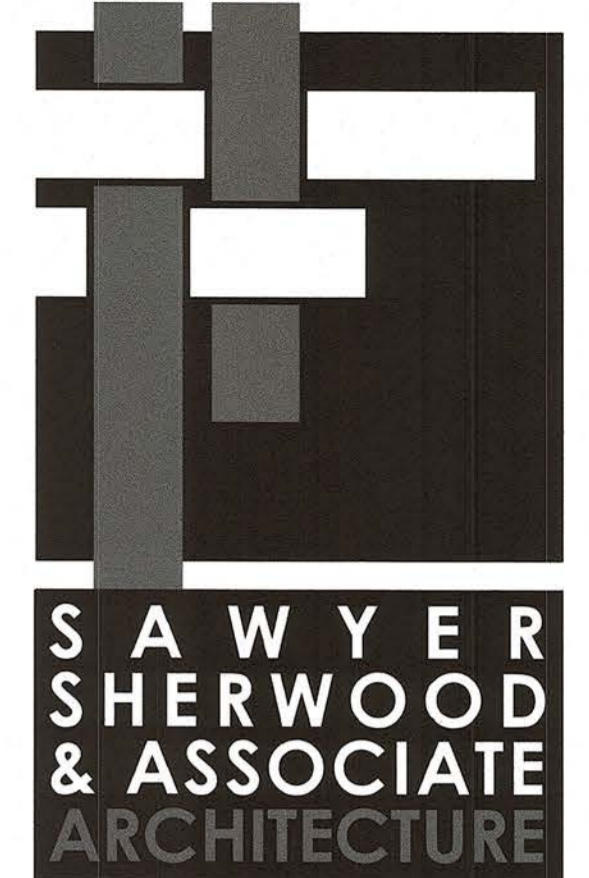
2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> • 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 case-by-case basis. • If the stream is named on the <u>NC 303(d) list</u> 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.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> • 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.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • 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.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • 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.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • 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(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.



APPROVED CONSTRUCTION PLAN	
NAME	DATE
PLANNING <i>W. Maides</i>	1/22/20
TRAFFIC <i>W. Maides</i>	1-22-20
FIRE <i>C. Wines</i>	1/22/20



124 Market St, Wilmington, NC 28401
910 762-0892 s2a3.com



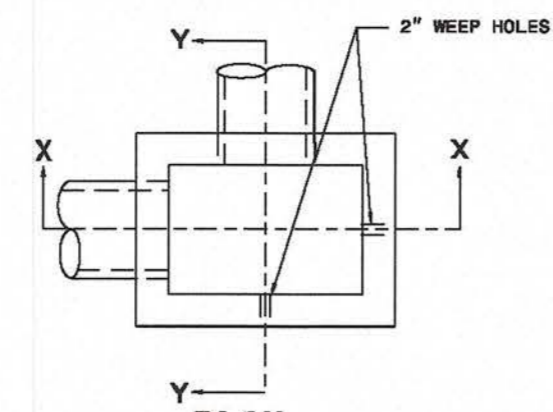
MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

Construction Documents
January 10, 2020

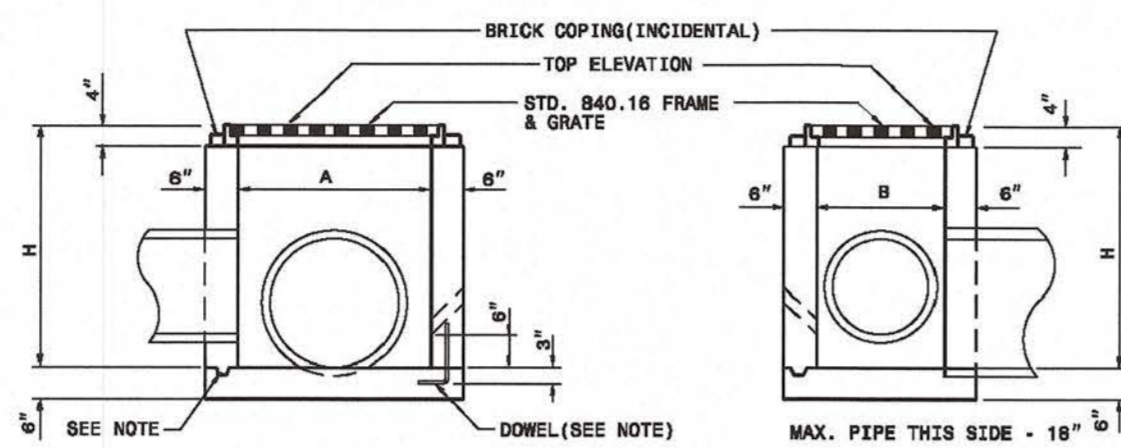
Revisions:

DETAILS

C705



PLAN
WITH GRATE & FRAME REMOVED



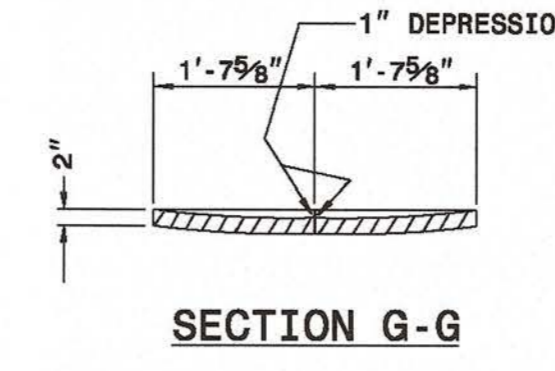
SECTION X-X

SECTION Y-Y

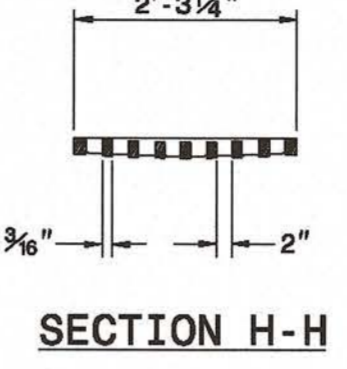
DIMENSIONS OF BOX & PIPE				CUBIC YARDS		DEDUCTIONS FOR	
PIPE	SPAN	WIDTH	MIN. HEIGHT	CONC. IN BOX	FT.	FT.	ONE PIPE
D	A	B	H	BOTTOM SLAB	FT.	FT.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.192	0.015
16"	3'-0"	2'-0"	2'-3"	0.222	0.222	0.248	0.023
18"	3'-0"	2'-0"	2'-6"	0.222	0.222	0.270	0.033
24"	3'-0"	2'-0"	3'-0"	0.222	0.222	0.314	0.059
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.326	0.127

GENERAL NOTES:
 USE CLASS "D" CONCRETE THROUGHOUT.
 PROVIDE ALL DROP INLETS OVER 3'-4" IN DEPTH WITH STEPS 15" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840-06.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840-03.
 CONSTRUCT WITH PIPE JOINTS MATCHING.
 SEE STANDARD DRAWING 840-25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
 INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.
 INSTALL STONE GRABBS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 788 STONE IN A POROUS FABRIC BAG OR MESH, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.
 CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.

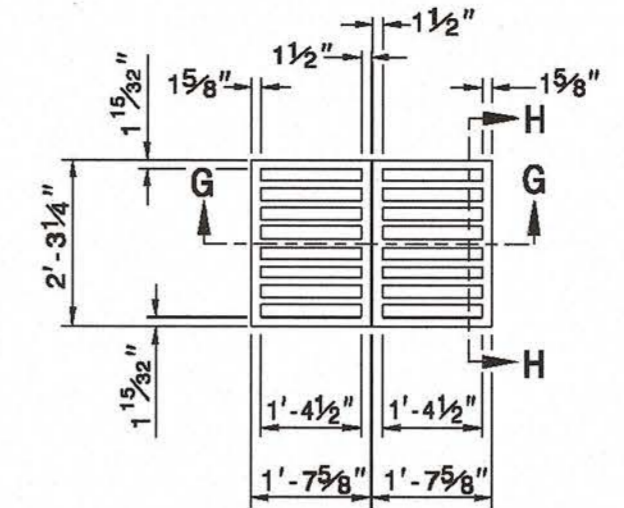
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
 CONCRETE DROP INLET
 12" THRU 30" PIPE
 SHEET 1 OF 1
 840.14



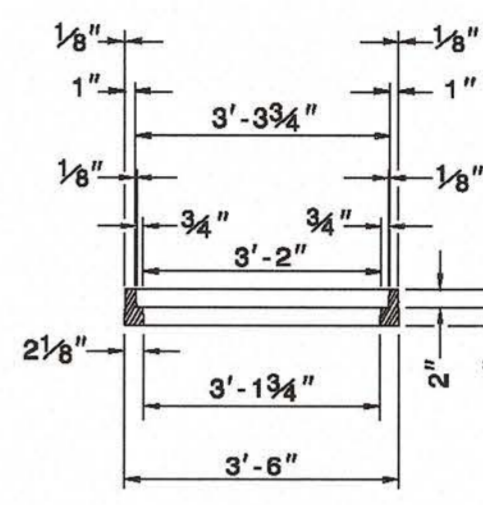
SECTION G-G



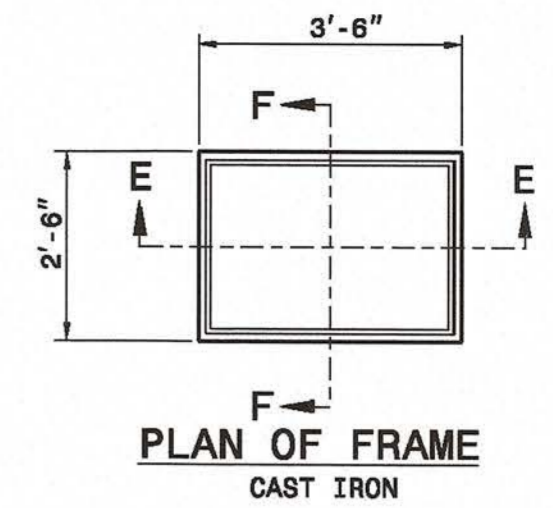
SECTION H-H



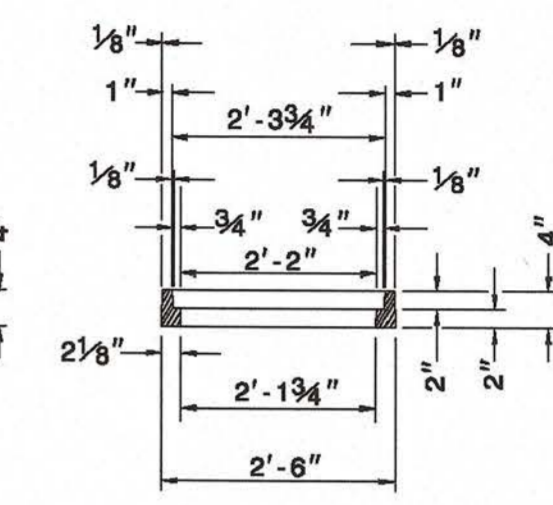
PLAN OF GRATING
CAST IRON



SECTION E-E



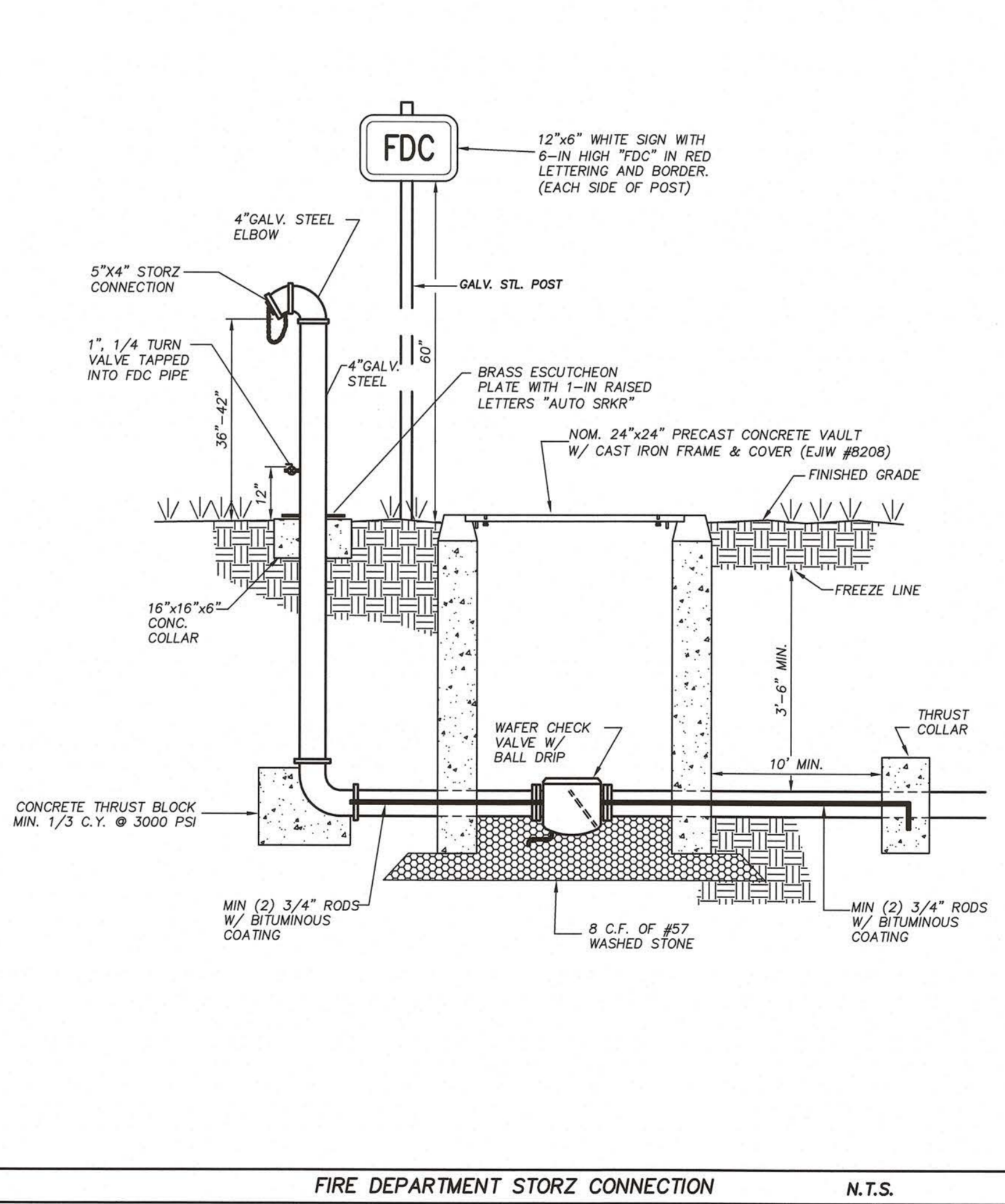
PLAN OF FRAME
CAST IRON



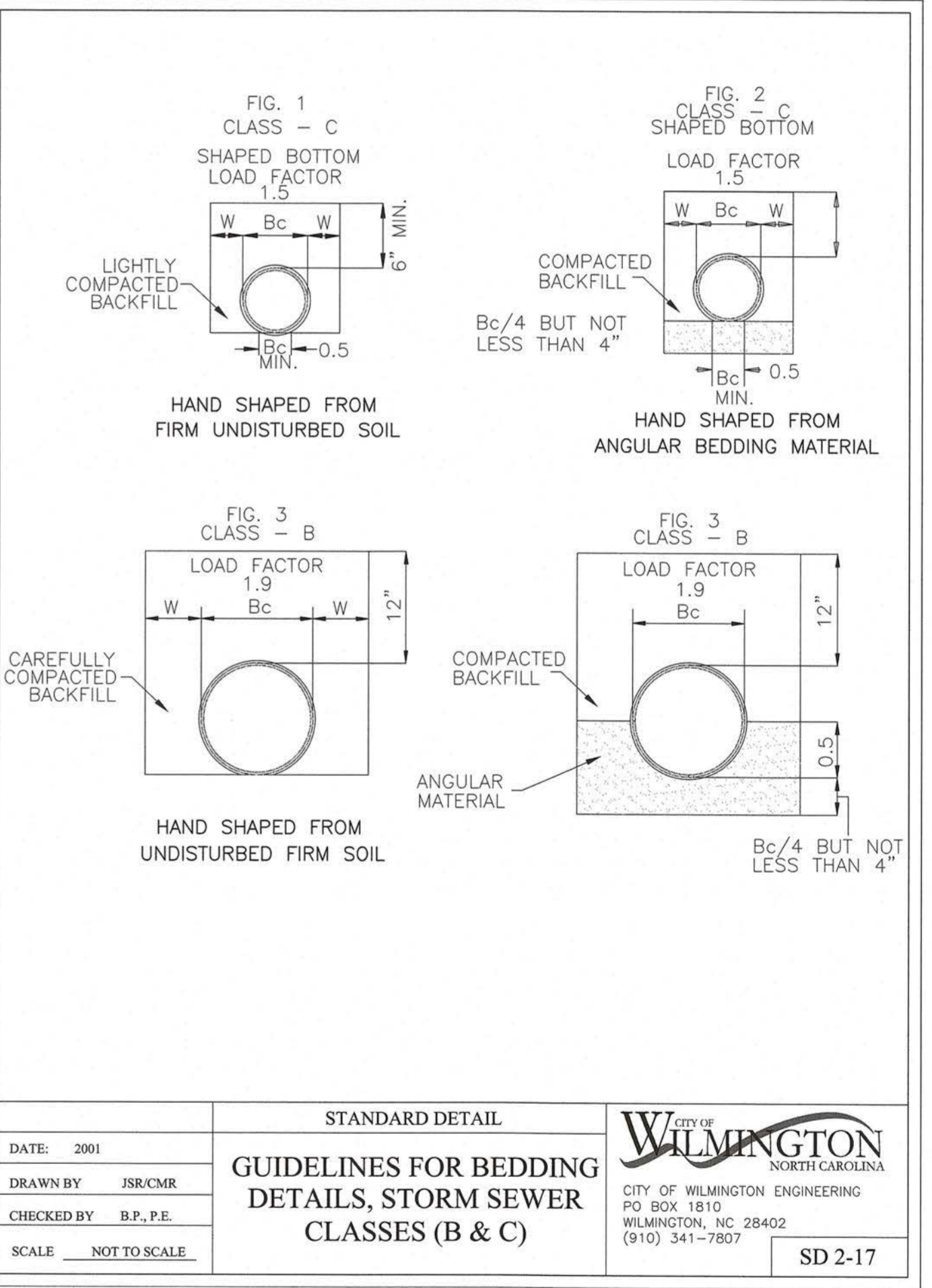
SECTION F-F

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
 DROP INLET FRAME AND GRATES
 FOR USE WITH STD. DWG. S 840-14 AND 840-15
 SHEET 1 OF 1
 840.16

NC DOT DETAILS



FIRE DEPARTMENT STORZ CONNECTION N.T.S.



STANDARD DETAIL
 GUIDELINES FOR BEDDING
 DETAILS, STORM SEWER
 CLASSES (B & C)
 DATE: 2001
 DRAWN BY: JSR/CMR
 CHECKED BY: B.P., P.E.
 SCALE: NOT TO SCALE
 CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 2-17

CITY OF WILMINGTON DETAILS

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: 1-22-20 Permit # 2019068
 Signed: E. See
 APPROVED CONSTRUCTION PLAN
 NAME: Nicole Dymith DATE: 1/22/20
 PLANNING: W. M. M. DATE: 1-22-20
 TRAFFIC: C. W. DATE: 1/22/20
 FIRE: C. W. DATE: 1/22/20

SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE
 124 Market St, Wilmington, NC 28401
 910 762-0892 s2a3.com

CLH DESIGN, PA
 400 Regency Forest Dr.
 Suite 120
 Cary, NC 27518
 Phone: 919.319.6716
 Fax: 919.319.7516
 LA: C-106 PE: C-1595

MAIDES PARK GYMNASIUM ADDITION
 1101 MANLY AVENUE
 Wilmington, NC, 28405

Construction Documents
 January 10, 2020

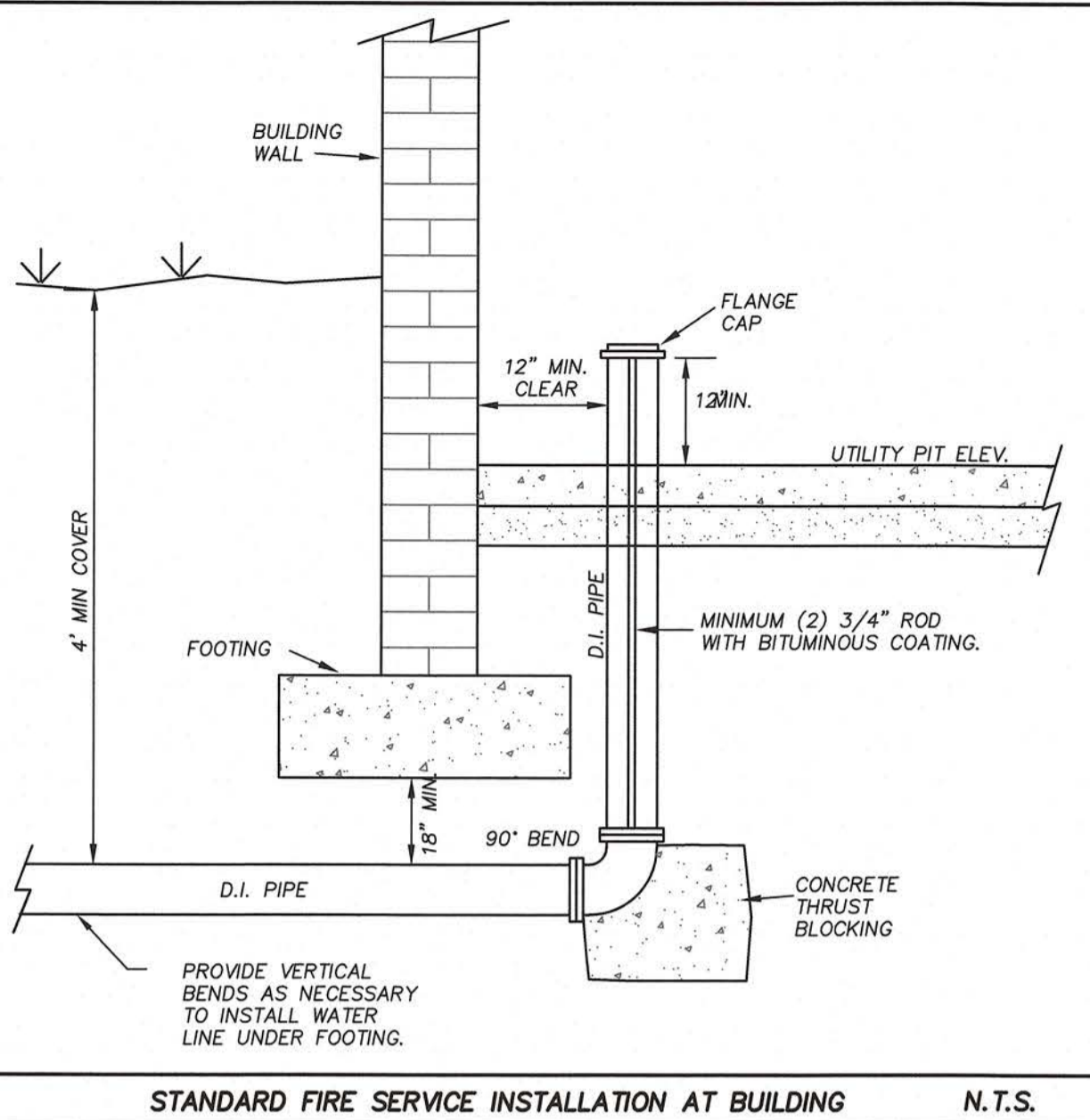
Revisions:

PROFESSIONAL ENGINEER
 SEAL 28393
 KENNETH A. LORING
 1-10-2020

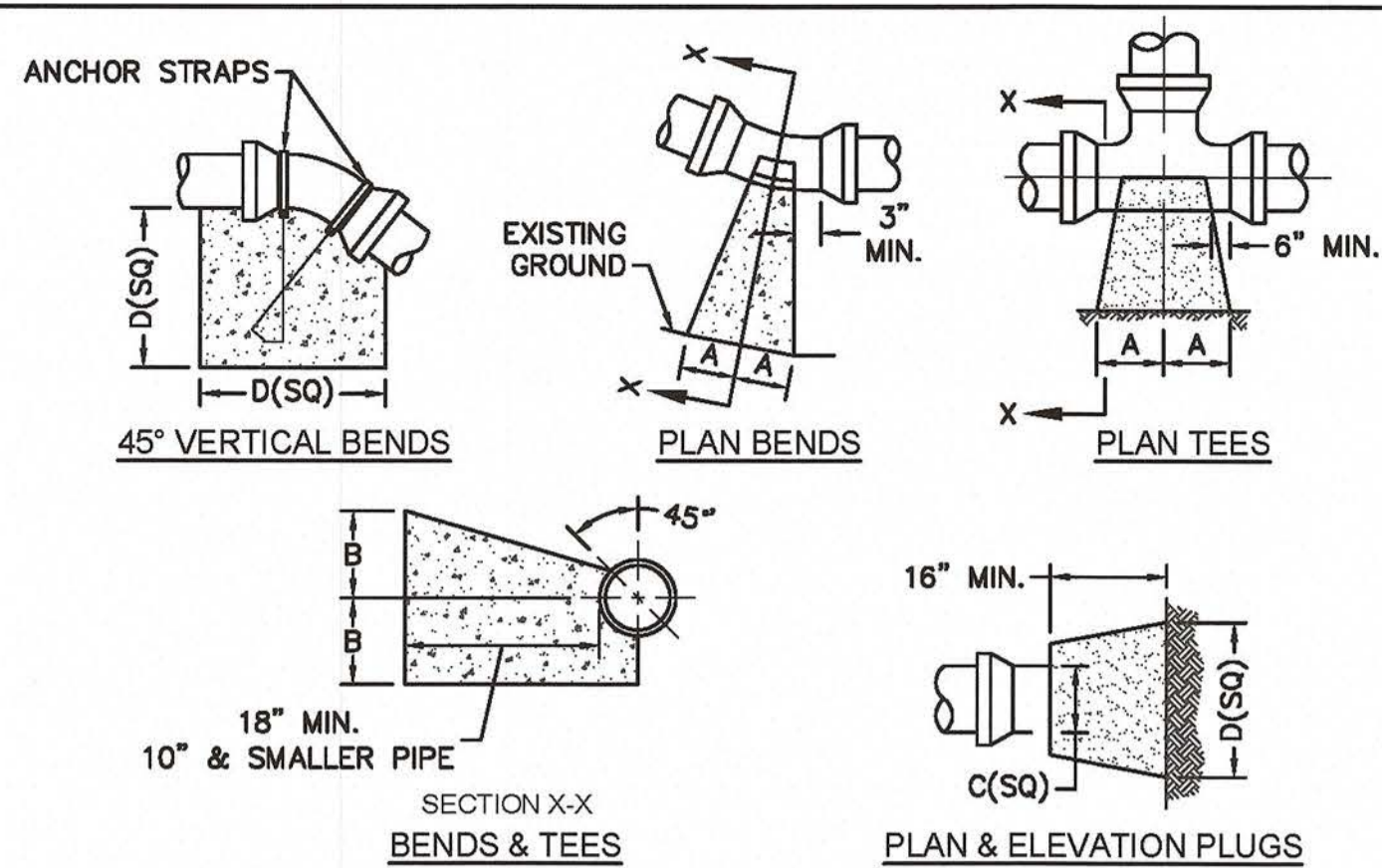
DETAILS

C706

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STANDARD FIRE SERVICE INSTALLATION AT BUILDING N.T.S.



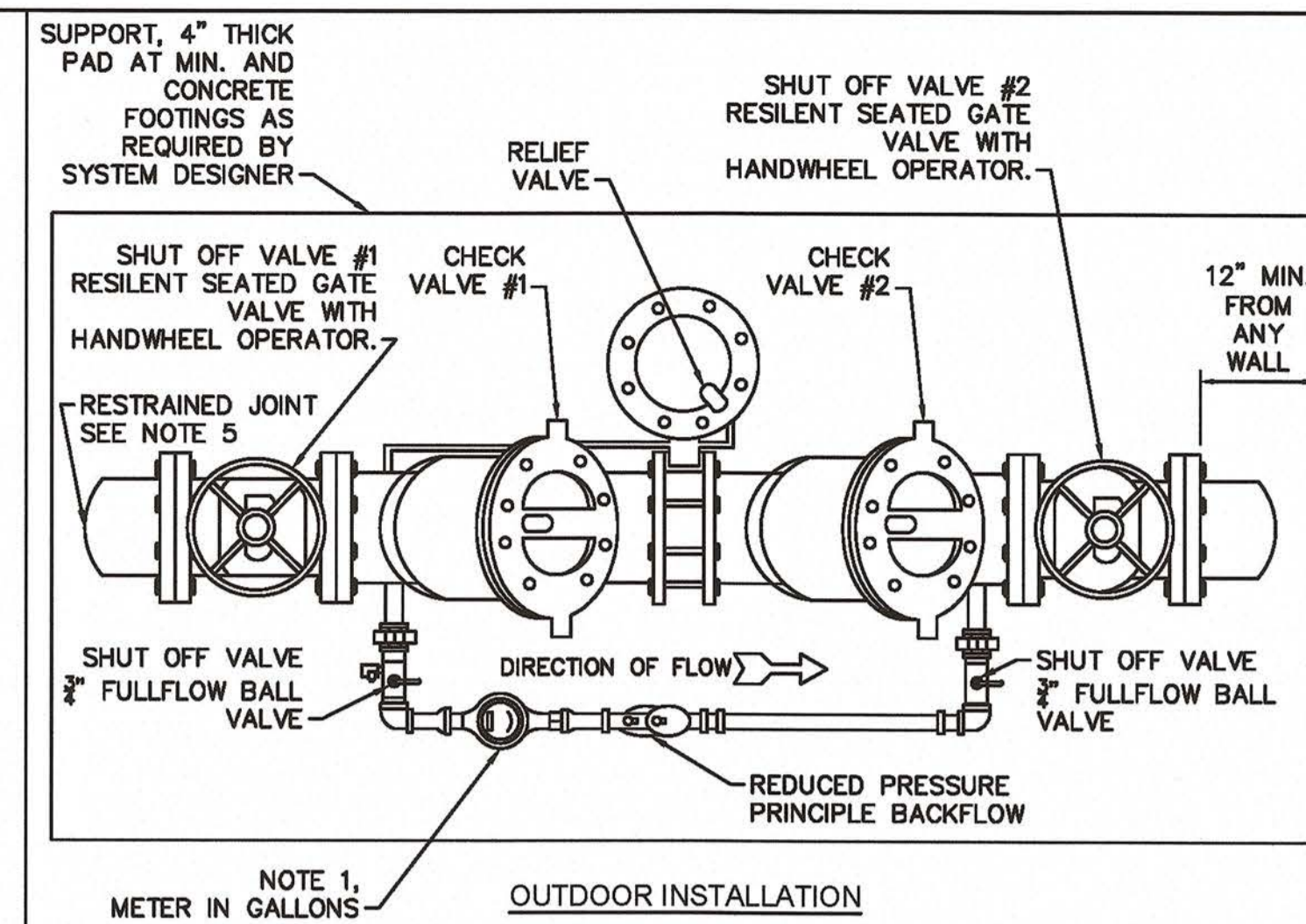
SIZE	90 BENDS		45 BENDS		22-1/2 BENDS		TEES/PLUGS		45 VERT. BENDS
	A	B	A	B	A	B	A	B	
3"	8"	6"	5"	6"	3"	7"	6"	8"	27"
4"	8"	9"	5"	8"	3"	11"	6"	9"	28"
6"	14"	11"	9"	9"	8"	8"	12"	9"	36"
8"	16"	16"	12"	12"	10"	13"	14"	13"	42"
10"	18"	22"	15"	14"	14"	16"	18"	15"	50"
12"	20"	28"	18"	17"	16"	16"	22"	18"	62"
14"	26"	29"	21"	19"	18"	18"	26"	20"	72"
16"	33"	29"	25"	21"	20"	21"	32"	21"	83"
18"	40"	30"	28"	24"	22"	23"	36"	24"	88"

NOTES:

- THRUST BLOCKING IS NOT PERMITTED EXCEPT IN SPECIAL INSTALLATIONS WHERE DESIGNED BY ENGINEER AND APPROVED BY CFPUA.
- ALLOW 7-DAY MINIMUM CONCRETE CURE TIME BEFORE PLACING LOAD ON THRUST BLOCK
- BASED ON 160 PSI TEST PRESSURE AND 2,000 PSF SOIL BEARING CAPACITY.
- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
- PIPE & FITTINGS TO BE WRAPPED IN 10 MIL PLASTIC PRIOR TO THRUST BLOCK BEING POURED.

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

- ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE.
- ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
- MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.
- WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
- UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
- A MINIMUM OF 10' OF MAIN LINE SHALL BE REPLACED FOR NEW CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.



NOTE 1, METER IN GALLONS OUTDOOR INSTALLATION

NOTES:

- FIRE SERVICE BACKFLOW ASSEMBLIES MUST BE CFPUA APPROVED.
- ABOVE GROUND REDUCED PRESSURE DETECTOR ASSEMBLIES (RPDA) PER CFPUA STANDARDS.
- 4"-10" RPDA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S).
- OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE PER CFPUA STANDARDS.
- MAIN LINE 2 1/2" TO 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE FLANGED OR APPROVED EQUAL.
- CFPUA APPROVED 2 1/2" - 10" RPDA INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
- TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
- MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR EMAIL COMMUNITYCOMPLIANCE@CFPUA.ORG.
- ONLY IN-LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

DETAIL: THRUST BLOCK
SCALE: NOT TO SCALE
CFPUA REV. No. 1
CFPUA DETAIL DATE: 01/01/19

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: WS-13
SHEET NO: -

DETAIL: STANDARD NOTES
(REQUIRED ON ALL PLAN AND PROFILE SHEETS)
SCALE: NOT TO SCALE
CFPUA REV. No. 2
CFPUA DETAIL DATE: 01/02/19

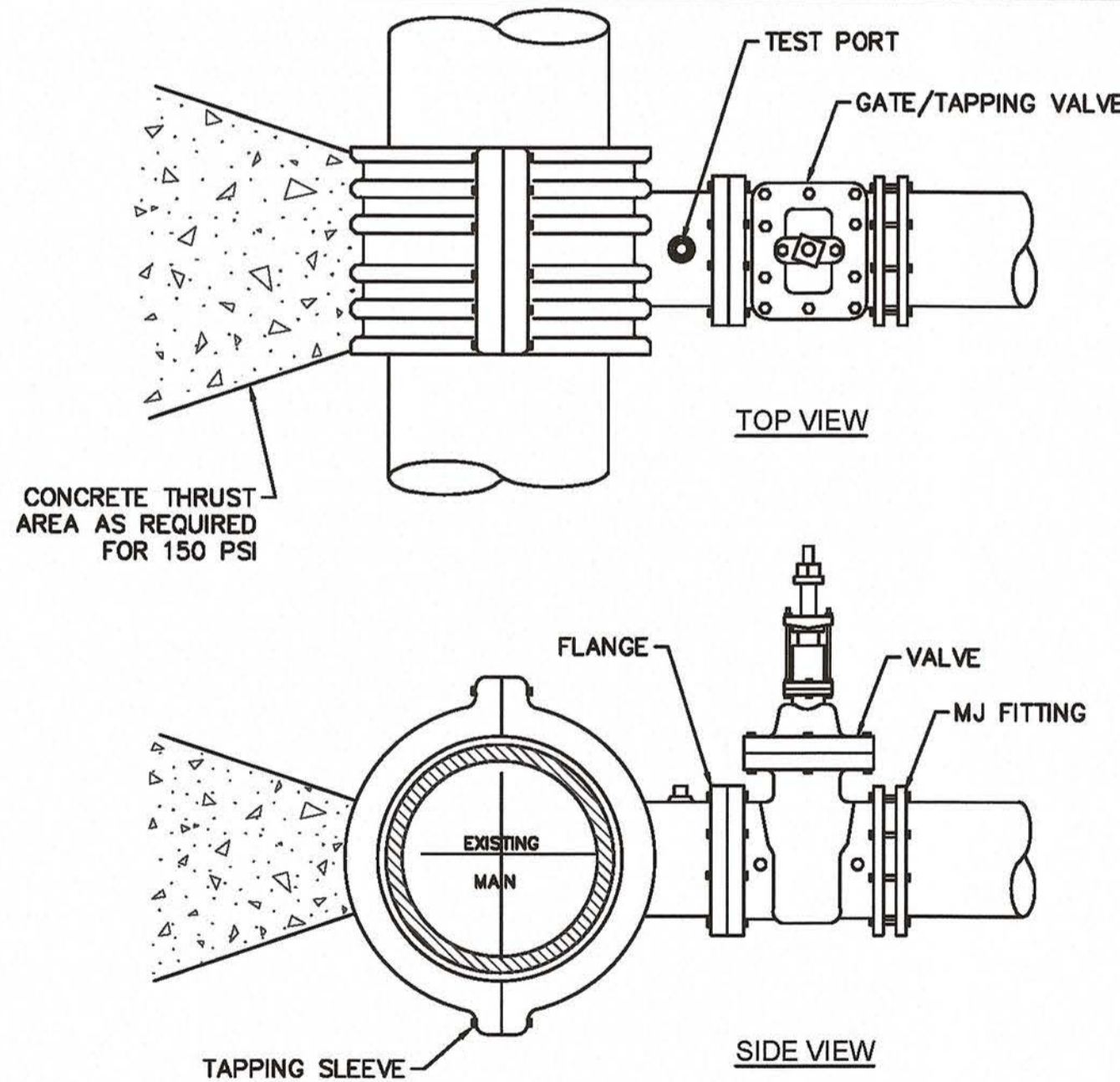
CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: WS-14
SHEET NO: -

DETAIL: FIRE SERVICE REDUCED PRESSURE DETECTOR ASSEMBLY
SCALE: NOT TO SCALE
CFPUA REV. No. 1
CFPUA DETAIL DATE: 01/01/19

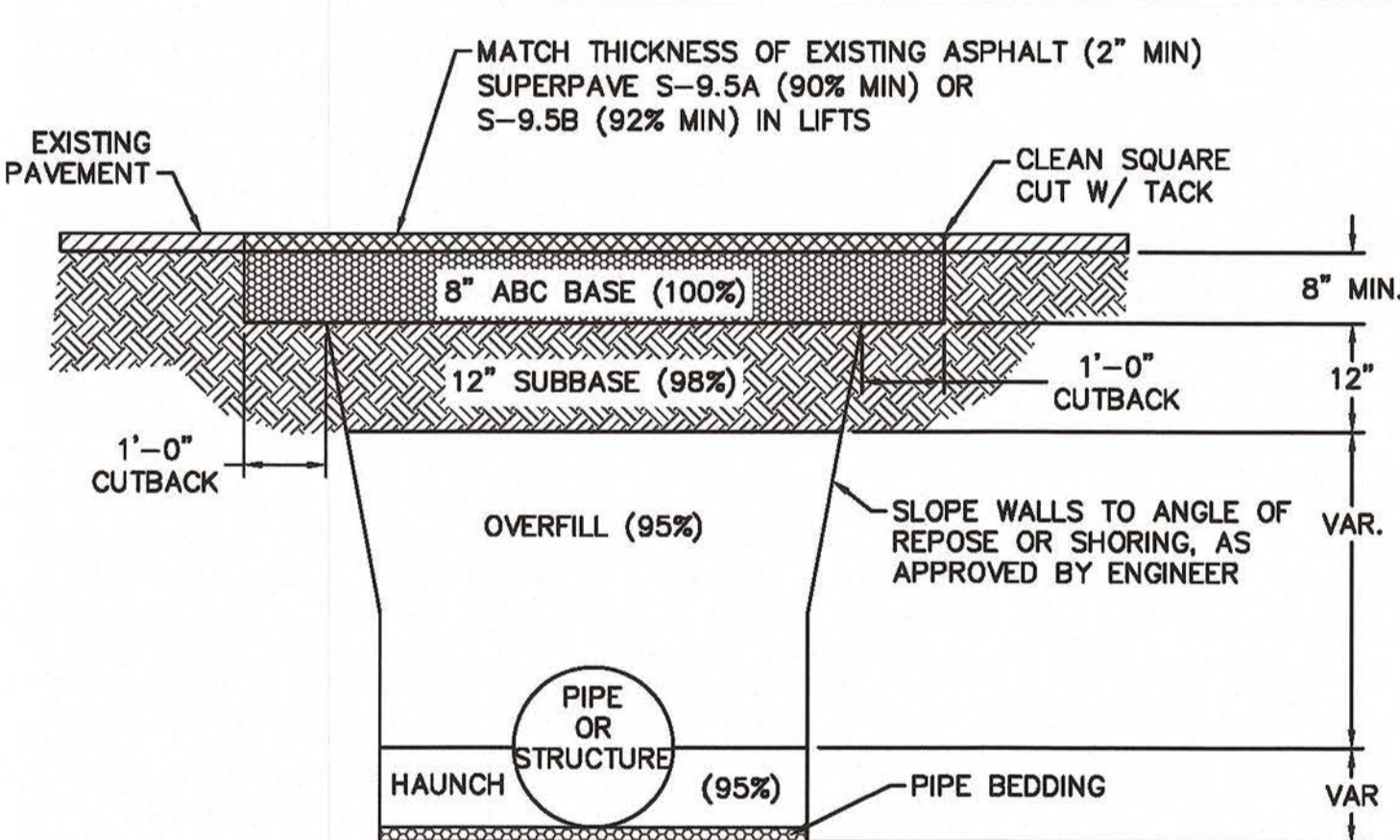
CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: EM-6
SHEET NO: -



NOTES:

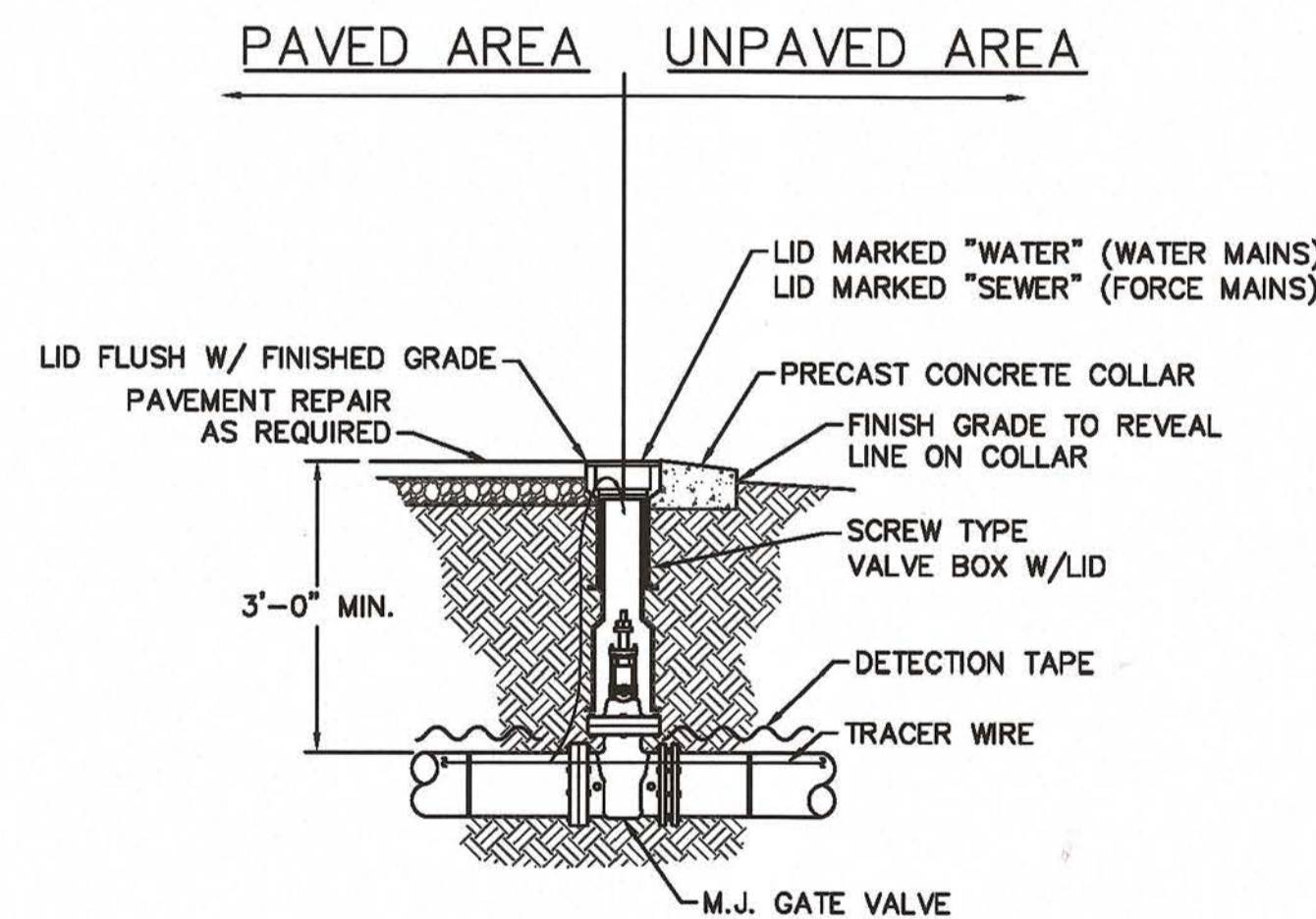
- CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
- TEST PRESSURE SHALL NOT BE APPLIED FOR A MINIMUM OF 7 DAYS AFTER THRUST BLOCK PLACEMENT.
- BRANCH SHALL NOT EQUAL RUN DIAMETER UNLESS APPROVED BY CFPUA ENGINEERING.
- TAPPING SLEEVE & VALVE TO BE HYDROSTATICALLY TESTED AT 150 PSI FOR 15 MINUTES WITH ZERO PRESSURE LOSS.



NOTES:

- CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
- FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
- SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION. (I.E. #57 STONE, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
- SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
- ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
- COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS, AND ASTM D-698-C FOR ABC STONE, AND BY NUCLEAR GAGE OR CORE SAMPLE FOR ASPHALT.
- CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

(FOR PRIVATE ROADS AND PAVED AREAS, CONTRACTOR TO MEET MINIMUM REQUIREMENTS AS DEFINED BY RIGHT-OF-WAY OWNER FOR PUBLIC ROAD REPAIRS)



NOTES:

- TRACER WIRE SHALL PENETRATE VALVE BOX THROUGH DRILLED HOLE APPROX. 6" BELOW GRADE WITH MINIMUM 2-FOOT EXTRA LENGTH COILED IN THE VALVE BOX. SEE WS-6.

DETAIL: CITY OF WILMINGTON PAVEMENT REPAIRS-UTILITY CUTS
SCALE: NOT TO SCALE
CFPUA REV. No. 1
CFPUA DETAIL DATE: 01/01/19

CITY OF WILMINGTON
PAVEMENT REPAIRS-UTILITY CUTS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: WS-1
SHEET NO: -

DETAIL: VALVE DETAIL
SCALE: NOT TO SCALE
CFPUA REV. No. 1
CFPUA DETAIL DATE: 01/01/19

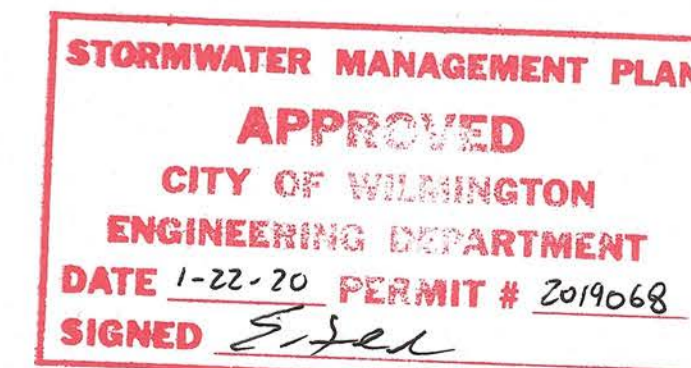
CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: WS-5
SHEET NO: -

DETAIL: TAPPING SLEEVE AND VALVE ASSEMBLY (4"-24")
SCALE: NOT TO SCALE
CFPUA REV. No. 1
CFPUA DETAIL DATE: 01/01/19

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DETAIL NO: WS-9
SHEET NO: -

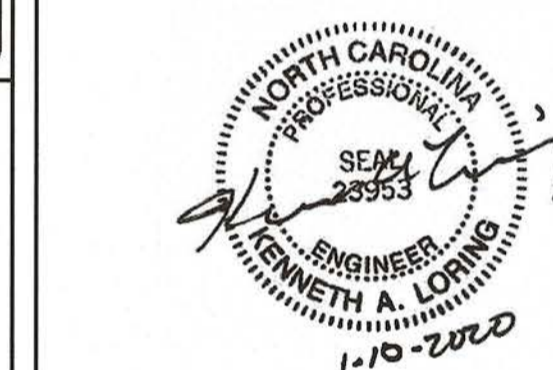


APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING: <i>Eric Sel</i>	1/22/20
TRAFFIC: <i>Eric Sel</i>	1-22-20
FIRE: <i>Eric Sel</i>	1/22/20

SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE
124 Market St, Wilmington, NC 28401
910 762-0892 s2a3.com

CLH DESIGN, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.319.6716
Fax: 919.319.7516
LA: C-106 PE: C-1595



MAIDES PARK GYMNASIUM ADDITION
1101 MANLY AVENUE
Wilmington, NC, 28405

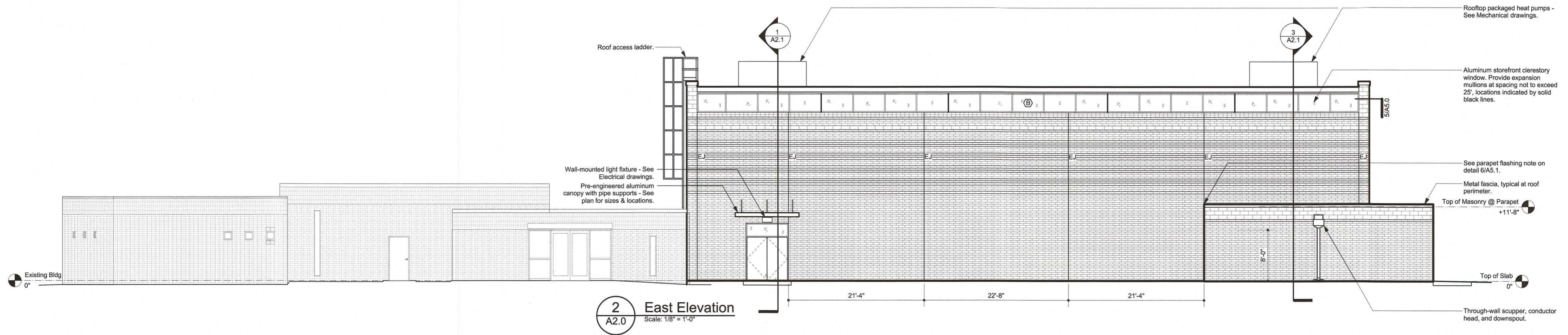
Construction Documents
January 10, 2020

Revisions:

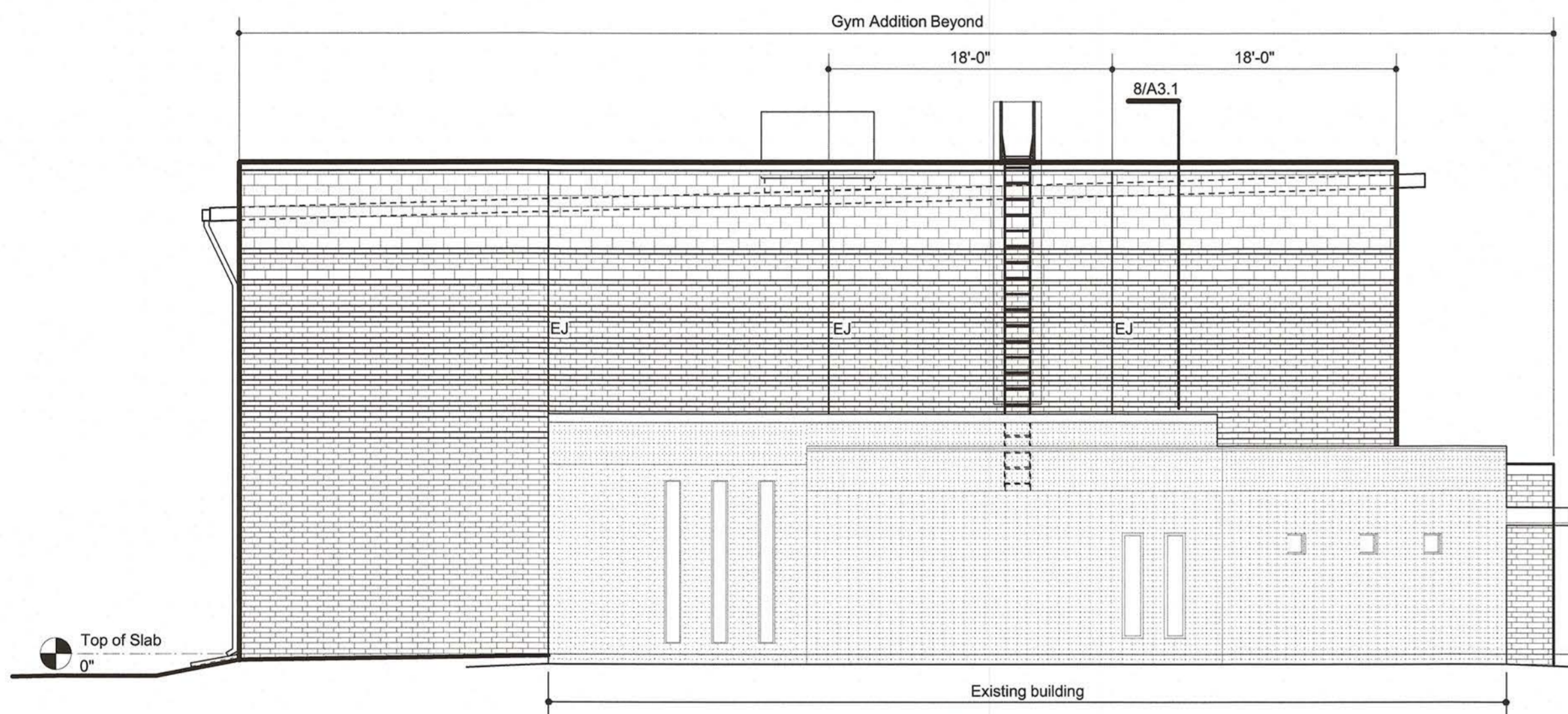
DETAILS

C707

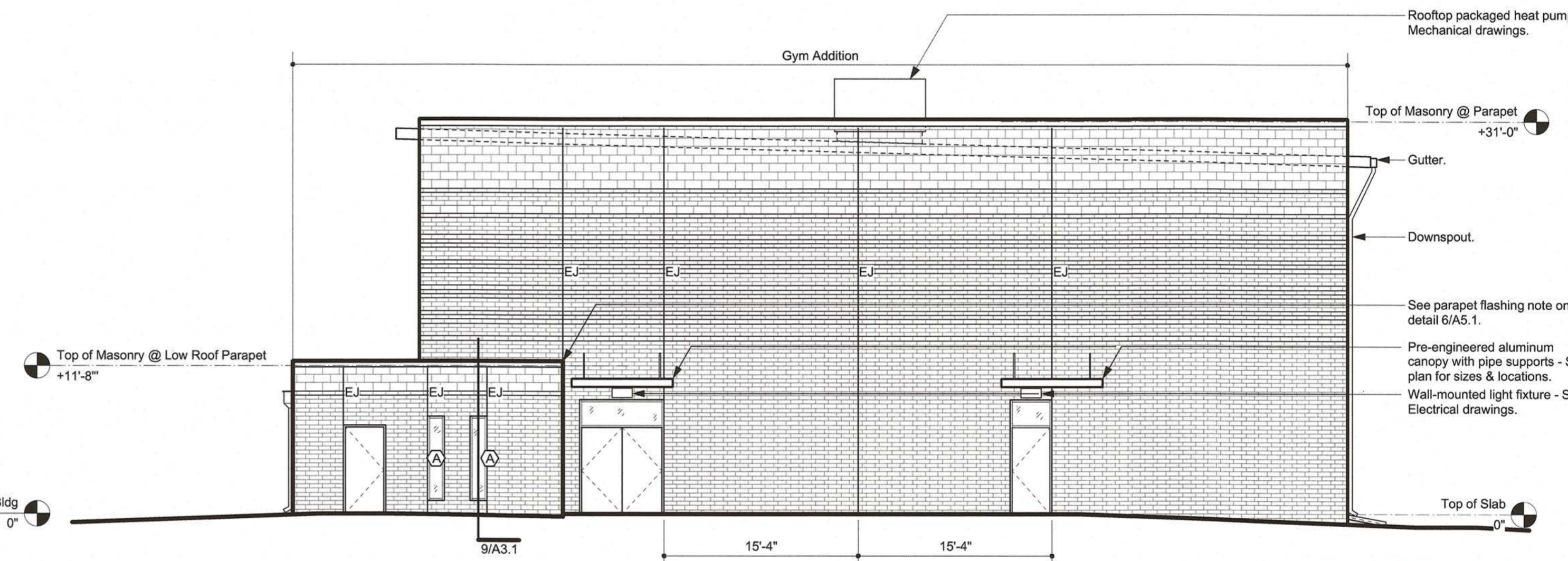
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2 East Elevation
A2.0
Scale: 1/8" = 1'-0"

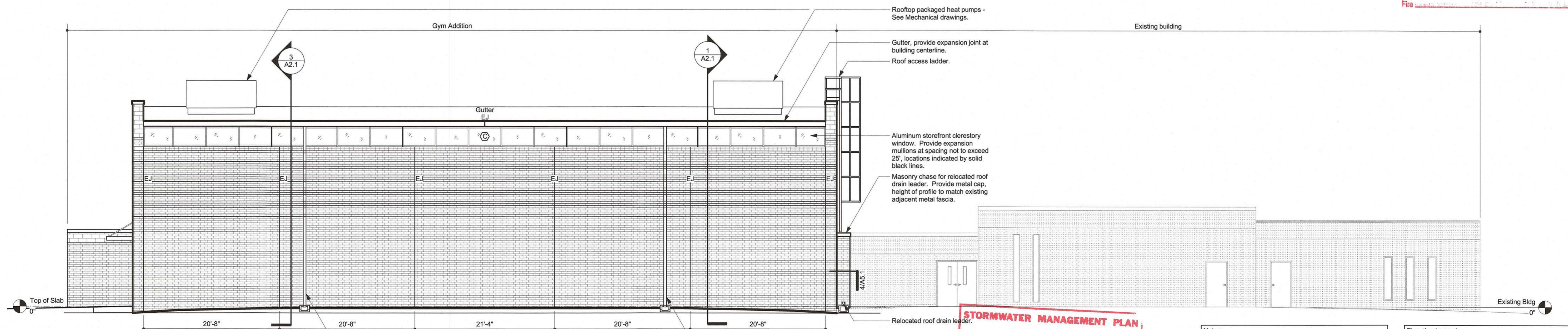


4 South Elevation
A2.0
Scale: 1/8" = 1'-0"



5 North Elevation
A2.0
Scale: 1/8" = 1'-0"

Approved Const. Plan
Name: Nicole Smith Date: 1/22/20
Planning: NA
Public Utilities: NA
Traffic: W. Smith 1-22-20
Fire: W. Smith 1-22-20



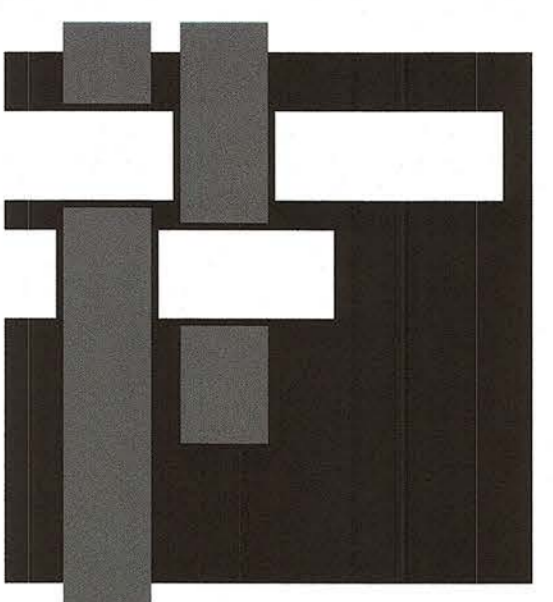
8 West Elevation
A2.0
Scale: 1/8" = 1'-0"

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE 1-22-20 PERMIT # 2019068
SIGNED S. J. J.

Notes
1. Provide expansion joints as indicated and at wall intersections.
2. See 8/A5.1 for typical detailing of expansion joints at lintels.
3. See wall sections for coursing of brick and CMU masonry veneer.

Elevation Legend

EJ	Expansion Joint in masonry veneer.
	Brick masonry veneer.
	CMU masonry veneer.



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NC LICENSE C-105



Gymnasium Addition at the Derick G.S. Davis Community Center
1101 Manly Avenue
Wilmington, NC 28405

Construction Documents
November 13, 2019

Revisions:

Building Elevations

A2.0

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