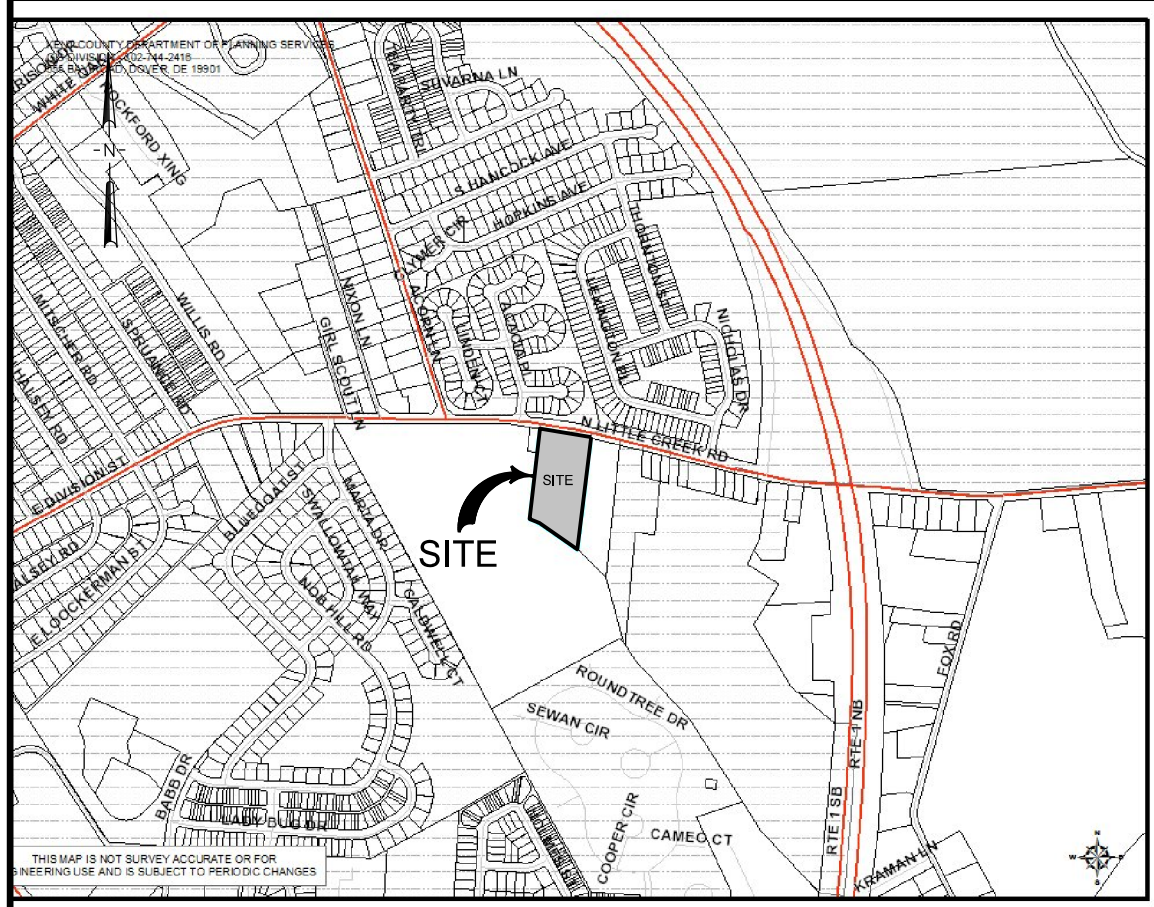




LOCATION MAP SCALE: 1" = 1200'

GENERAL NOTES

- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH BEST AVAILABLE INFORMATION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND ALLOW FOR THEIR LOCATIONS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY AND ALL DAMAGES DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT HIS EXPENSE.
- PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED OR DESTROYED LANDSCAPE.
- NOTIFY MISS UTILITY 48 HOURS PRIOR TO ANY EXCAVATION AT (800) 282-8555.
- THIS DRAWING DOES NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
- THE TOPOGRAPHIC AND BOUNDARY INFORMATION SHOWN HEREON REPRESENTS A BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BAKHSH SURVEYORS, INC.
- THE KENT CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, MODIFY, OR DELETE ANY EROSION OR SEDIMENT CONTROL MEASURE, AS IT DEEMS NECESSARY.
- THE KENT CONSERVATION DISTRICT MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- THE KENT CONSERVATION DISTRICT RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE INSPECTION.
- ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH DELAWARE STATE FIRE PREVENTION REGULATIONS, 2012.
- THE PROPOSED BUILDING WILL BE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM.
- A KNOX BOX IS REQUIRED FOR THIS PROJECT.
- THIS PROPERTY IS NOT IMPACTED BY WETLANDS REGULATED BY THE STATE OF DELAWARE OR THE U.S. ARMY CORPS OF ENGINEERS.
- THIS PROPERTY IS NOT IMPACTED BY 100 YEAR FLOOD PLAIN BOUNDARY AS DEPICTED ON THE FEMA COMMUNITY PANEL NO. 10001C0186J DATED JULY 7, 2014.
- ALL MATERIALS AND WORKMANSHIP SHALL MEET THE CITY OF DOVER STANDARDS AND SPECIFICATIONS.
- THE SITE CONTRACTOR MUST CONTACT THE PUBLIC WORKS CONSTRUCTION MANAGER AT (302) 736-7028 PRIOR TO THE START OF CONSTRUCTION. ALL TAPS ON WATER MAINS MUST BE PERFORMED BY A CITY OF DOVER APPROVED CONTRACTOR.
- ALL EXISTING UTILITIES SHALL BE ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH CURRENT CITY OF DOVER REQUIREMENTS AND PRACTICES.
- IT IS A CITY OF DOVER REQUIREMENT FOR COMMERCIAL BUSINESSES TO PARTICIPATE IN RECYCLING.

LEGEND

PROPERTY BOUNDARY	---
RIGHT-OF-WAY LINE	---
LOT LINE	---
BUILDING SETBACK LINE	---
EXISTING CONTOUR	---26---
PROPOSED CONTOUR	---(26)---
EXISTING STORM DRAIN	=====
PROPOSED STORM DRAIN	=====
EXISTING SANITARY SEWER	---S---
PROPOSED SANITARY SEWER	---S---
EXISTING WATER LINE	---W---
PROPOSED WATER LINE	---W---
EXISTING UTILITY POLE	●
EXISTING ROAD SIGN	○
EXISTING SPOT ELEVATION	26x27
PROPOSED SPOT ELEVATION	(26x27)

OWNER CERTIFICATION

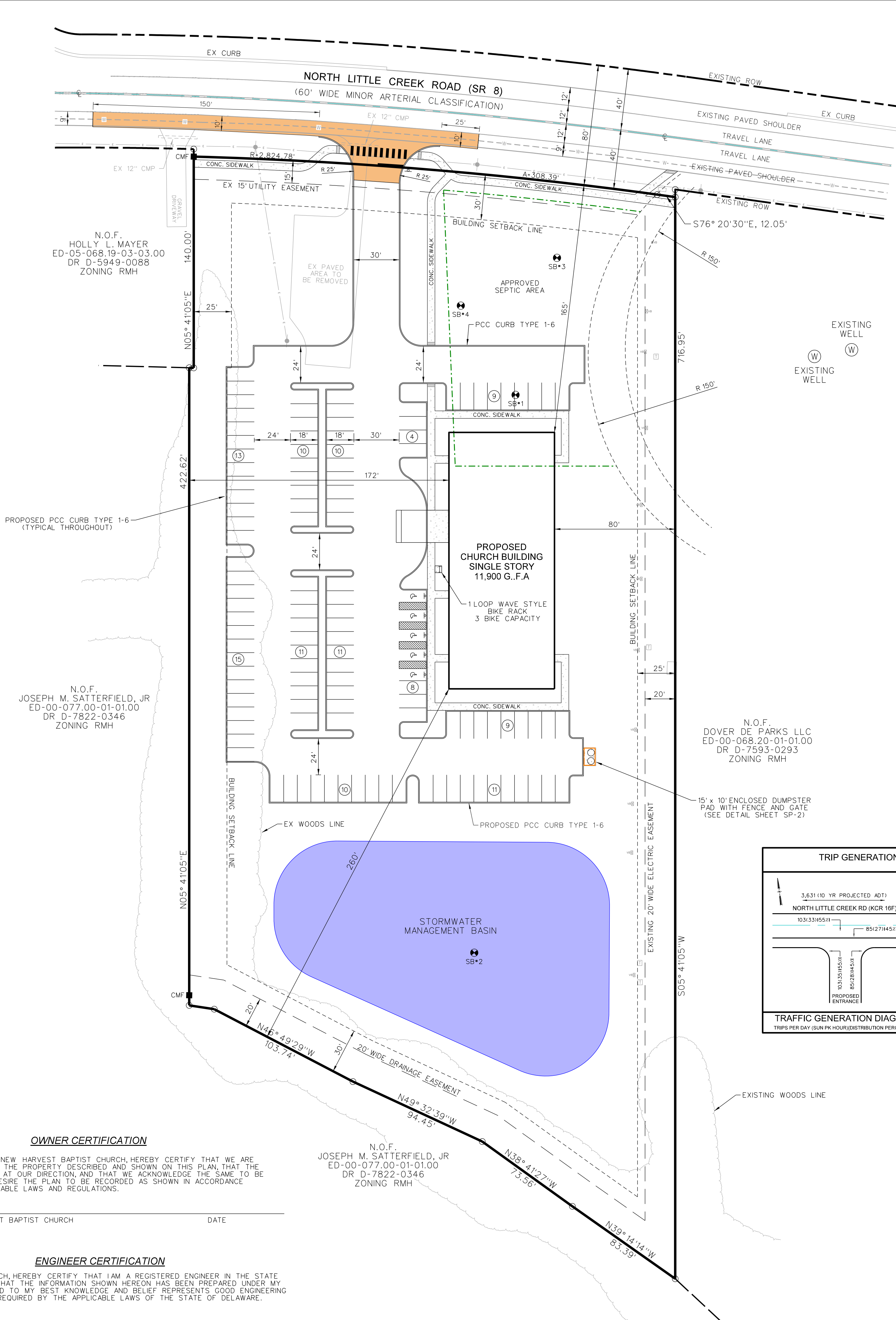
I, JIM CLARK OF NEW HARVEST BAPTIST CHURCH, HEREBY CERTIFY THAT WE ARE THE OWNERS OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN THAT THE PLAN WAS MADE AT OUR DIRECTION, AND THAT WE ACKNOWLEDGE THE SAME TO BE OUR ACT AND DESIRE THE PLAN TO BE RECORDED AS SHOWN IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

NEW HARVEST BAPTIST CHURCH DATE

ENGINEER CERTIFICATION

I, KEVIN R. MINNICH, HEREBY CERTIFY THAT I AM A REGISTERED ENGINEER IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

KEVIN R. MINNICH, PE #9027 DATE



TRIP GENERATION - NORTH LITTLE CREEK RD (KCR 16F)	
(FULL MOVEMENT)	
	ROAD TRAFFIC DATA: FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL POSTED SPEED LIMIT 35 MPH ADT = 3,130 (FROM 2023 DELDOT TRAFFIC SUMMARY) 15-YR PROJECTED ADT=1,16 + 3,130 TRIPS=3,831 TRIPS TRAFFIC PATTERN GROUP 2 (2023 TRAFFIC SUMMARY) K-FACTOR=10.8, D-FACTOR=56.2, TRUCK COMBO UNIT=2.6
TRAFFIC GENERATION DIAGRAM TRIPS PER DAY (SUN PK HOUR)(DISTRIBUTION PERCENTAGE)	SITE TRAFFIC DATA: SOURCE: ITE TRIP GENERATION MANUAL 11TH EDITION ENTRANCE = FULL MOVEMENT DESIGN VEHICLE: SINGLE UNIT TRUCK (SU-30) ITE LAND USE 560 (CHURCH) 11TH EDITION PROPOSED CHURCH GROSS FLOOR AREA=11,900 S.F. SUN ADT: 375 TRIPS (188 ENTER, 187 EXIT) SUN PK HR: 124 TRIPS (60 ENTER, 64 EXIT) 65% TO/FROM WEST, 45% TO/FROM EAST SUN PK HR IN/OUT, 48% IN/52% OUT PEAK HOUR HVZ OF SITE = 10%



LOCATION MAP SCALE: 1" = 400'

DATA COLUMN

TAX PARCEL NO:	ED-05-068-19-03-02-00-000
ACREAGE WITHIN BOUNDARIES:	4.6886 AC (203,366 S.F.)
EXISTING ZONING:	RG-2 (GENERAL RESIDENCE)
EXISTING USE:	VACANT
PROPOSED USE:	CHURCH
RG-2 BULK STANDARDS:	REQUIRED PROPOSED
FRONT YARD SETBACK:	30' 160'
SIDE YARD SETBACK:	25' 80'
REAR YARD SETBACK:	30' 260'
MINIMUM LOT WIDTH:	100' 320'
MINIMUM LOT DEPTH:	125' 150'
MINIMUM LOT AREA:	1,700 204,967 SF
NUMBER OF STORIES:	3 1
MAXIMUM BUILDING HEIGHT:	35' 12'
MAXIMUM BUILDING COVERAGE:	20% 5.85%
PROPOSED BUILDING GFA:	11,900 S.F.
NUMBER OF SEATS:	193 SEATS
PARKING REQUIRED:	60 SPACES (11,900 SF)(1 SP/200 SF) = 60 (193 SEATS)(1 SP/4 SEATS) = 49
PARKING PROVIDED:	121 SPACES (5 HANDICAP)
BUILDING CONSTRUCTION TYPE:	TYPE II (000) METAL & MASONRY
PROPOSED BUILDING HEIGHT:	12 FEET (SINGLE STORY)
EXISTING IMPERVIOUS SURFACE:	0.105 ACRE
PROPOSED IMPERVIOUS SURFACE:	0.310 ACRE
VERTICAL DATUM:	NAVD 88
HORIZONTAL DATUM:	NAD 83
PERMANENT MONUMENTS FOUND:	2 (CMF)
PERMANENT MONUMENTS PLACED:	0
WATER SERVICE:	CITY OF DOVER
SEWER SERVICE:	PRIVATE ON-SITE SEPTIC
INVESTMENT LEVEL:	1
OWNER OF RECORD:	NEW HARVEST BAPTIST CHURCH PO BOX 735 DOVER, DE 19903
SITE ADDRESS:	1462 N LITTLE CREEK ROAD DOVER, DE 19901

CONSTRUCTION PLAN SHEET INDEX

SHEET SP-1	CONDITIONAL USE SITE PLAN
SHEET SP-2	CONDITIONAL USE SITE PLAN DETAILS
SHEET UP-1	UTILITY AND GRADING PLAN
SHEET UP-2	UTILITY PLAN DETAILS
SHEET KCD-1	SEDIMENT & STORMWATER COVER SHEET
SHEET KCD-2	SEDIMENT & STORMWATER PLAN
SHEET KCD-3	SEDIMENT & STORMWATER DETAILS
SHEET KCD-4	SEDIMENT & STORMWATER DETAILS
SHEET LS-1	LANDSCAPE PLAN
SHEET LS-2	LANDSCAPE DETAILS

Minnich
Engineering & Land Planning
Designing Quality Not Quantity
868 Greenwood Road - Greenwood, DE 19950
(302) 697-2239 - (302) 495-7244

REVISIONS:

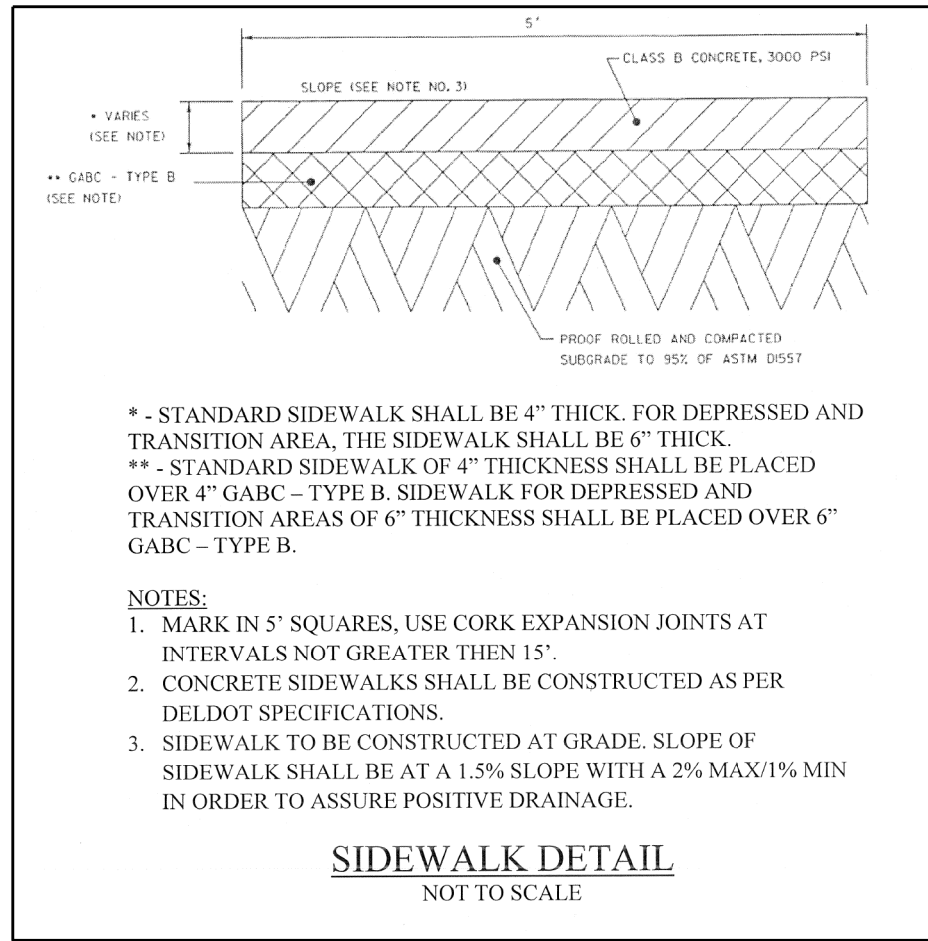
PROJECT NO: 19-068	DGN FILE: 19-068
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CONDITIONAL USE SITE PLAN NEW HARVEST BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

0 20 40 80

DATE: 01/03/25 SCALE: 1" = 40' SHT: SP-1



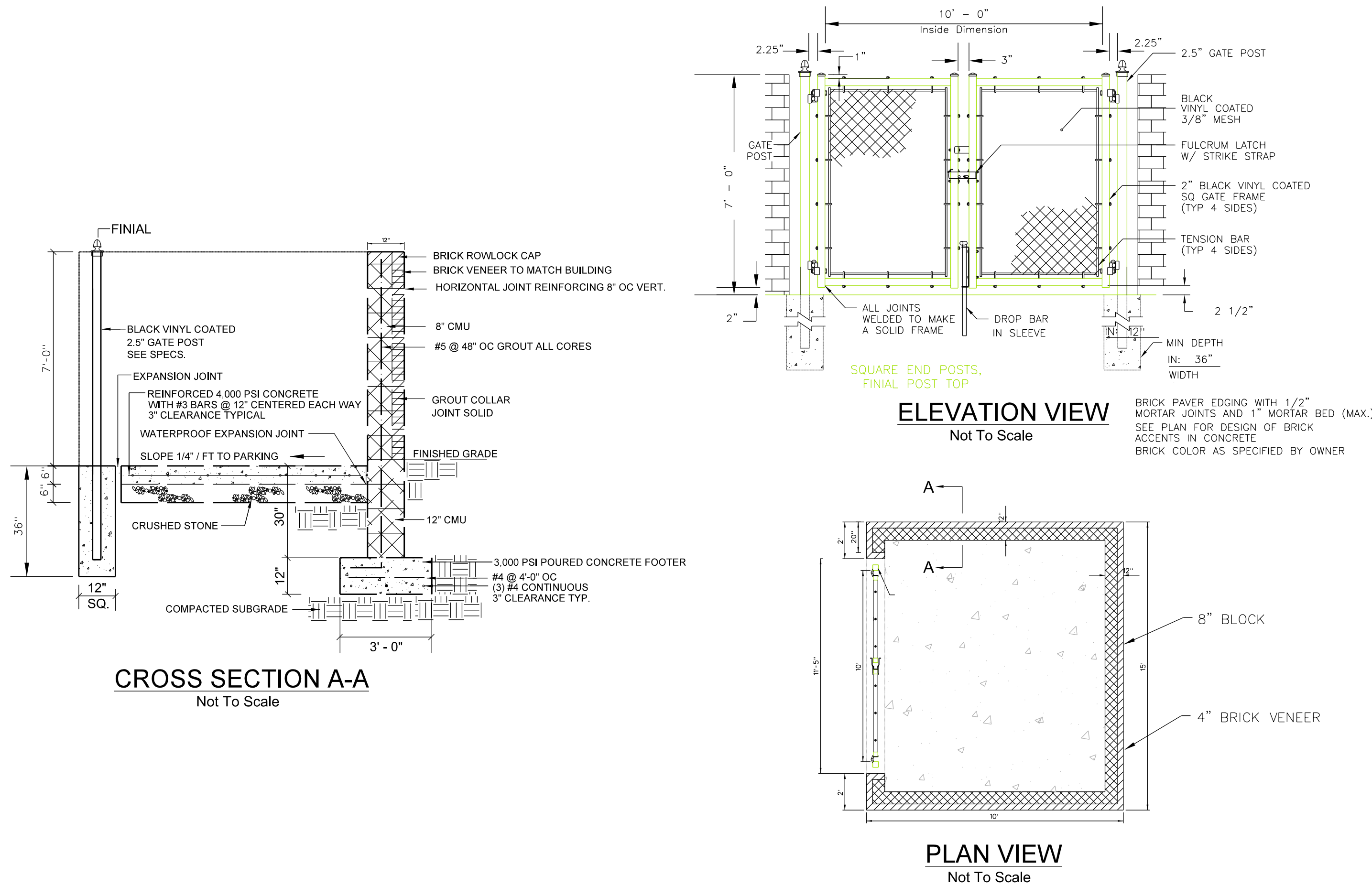
1-Loop Wave Style Bike Rack - 3 Bike Capacity, Black

Upscale stylish look for downtown shopping and business districts.

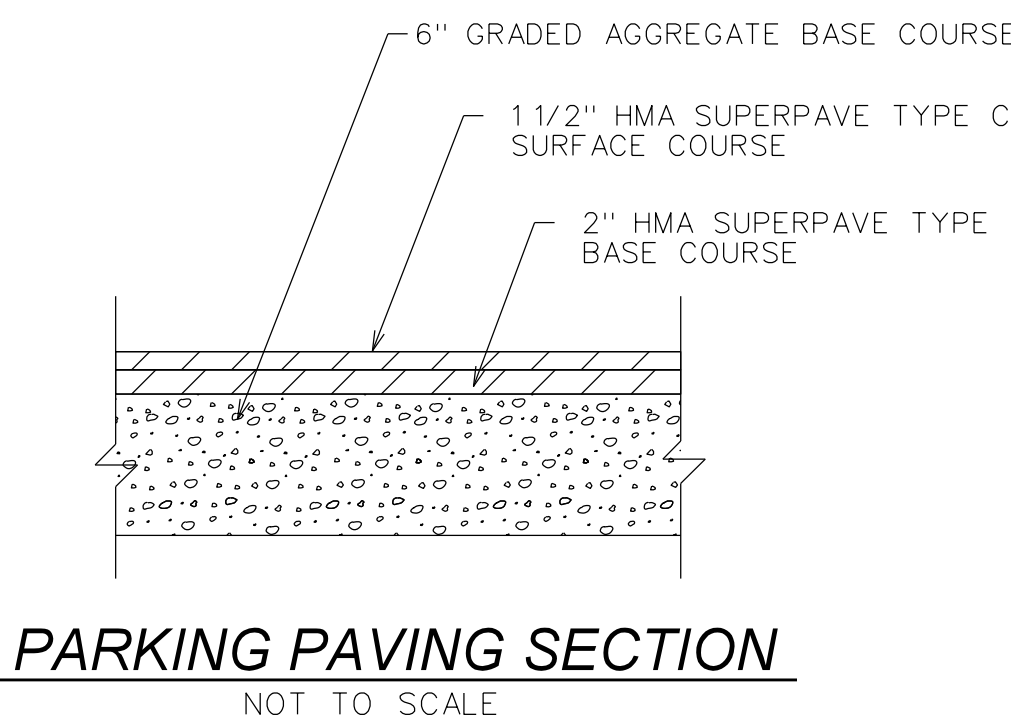
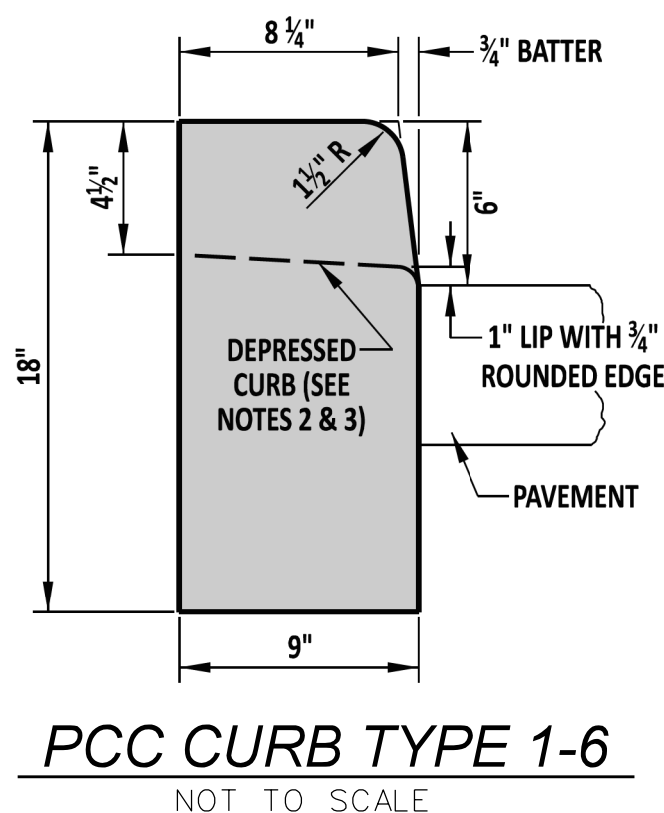
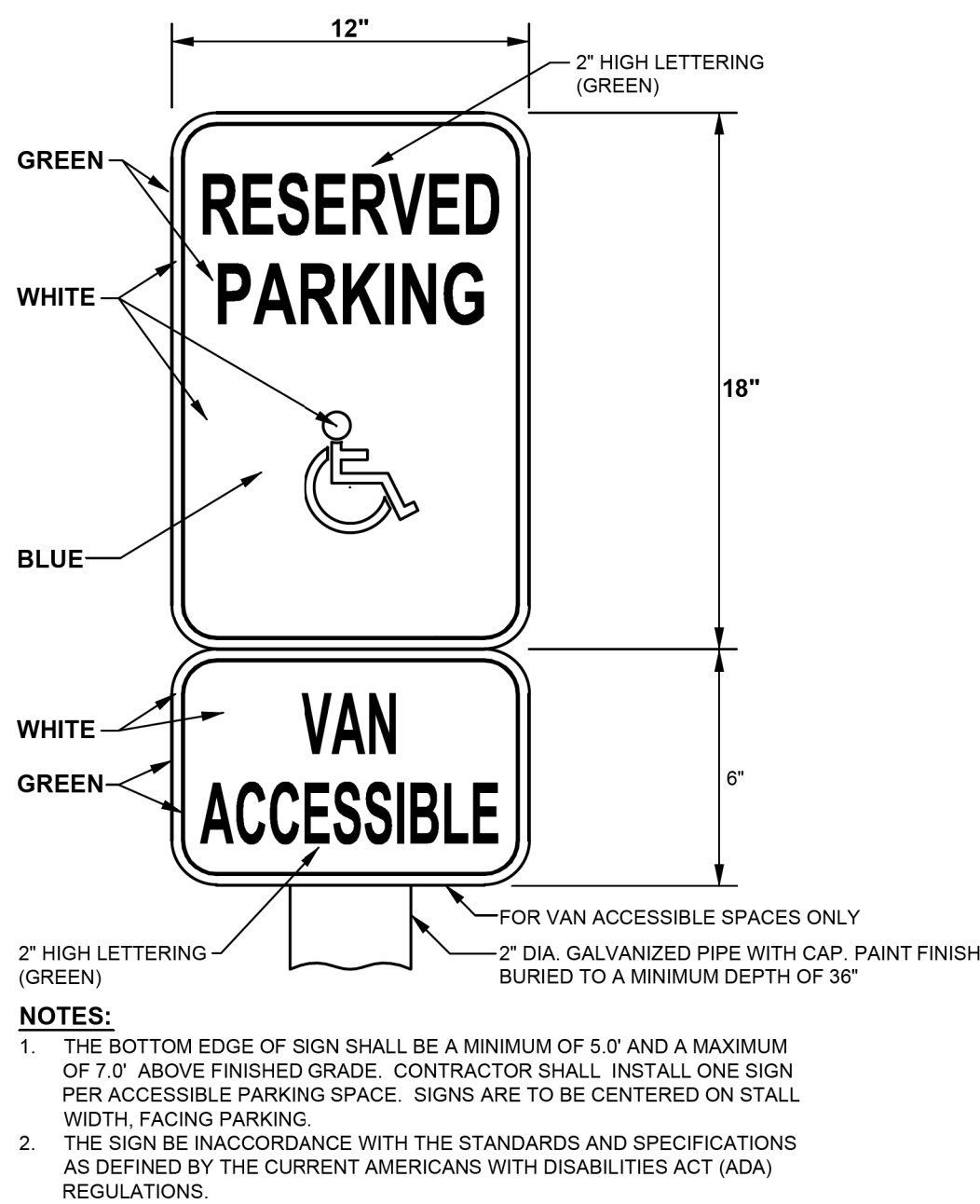
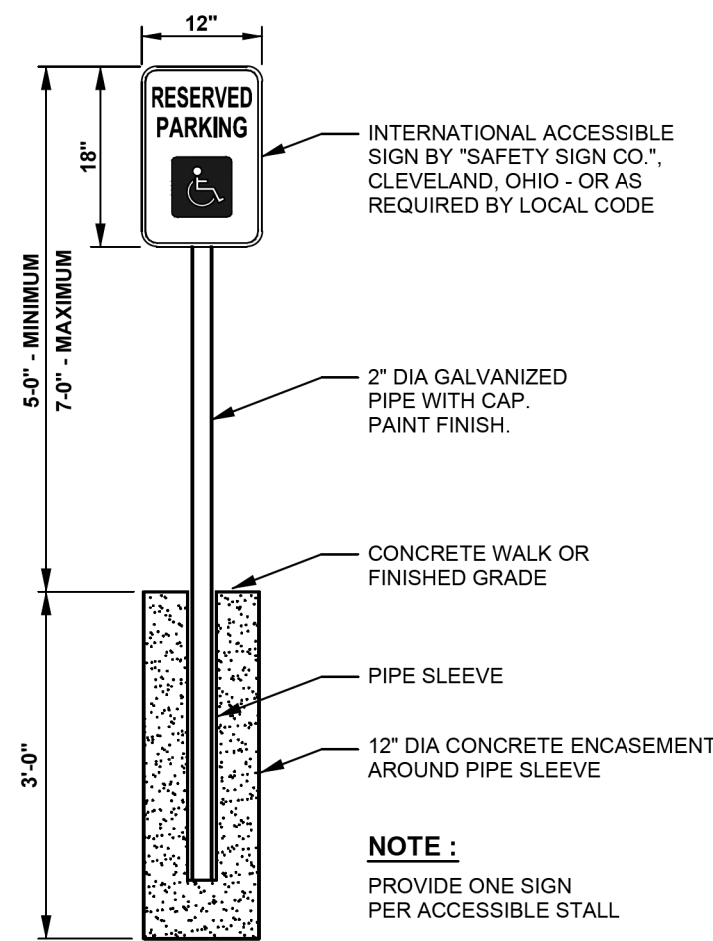
- 10-gauge steel with attractive powder coating.
- 2 3/8" diameter bar.
- Concrete mounting hardware sold separately.

More Images

MODEL NO.	DESCRIPTION	SIZE L x W x H	BIKE CAP.	WT. (LBS.)	PRICE EACH	ADD TO CART
H-2892	1-Loop	22 x 2 1/2 x 34"	3	27	\$170	\$160 1 ADD



DUMPSTER ENCLOSURE WITH GATE DETAIL



Minnich
Engineering & Land Planning
Designing Quality Not Quantity

868 Greenwood Road - Greenwood, DE 19950
(302) 697-2239 - (302) 495-7244

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT NO: 19-068 | DGN FILE: 19-068

**CONDITIONAL USE
SITE PLAN DETAILS**

**NEW HARVEST
BAPTIST CHURCH**

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

DATE: 01/03/25 | NOT TO SCALE | SHT: SP-2

STREETS NOTES

- STANDARD CITY OF DOVER SIDEWALK, AS PER CHAPTER 98, ARTICLE IV OF THE DOVER CODE OF ORDINANCES, SHALL BE REQUIRED TO BE INSTALLED ALONG THE ENTIRE PUBLIC STREET FRONTAGE OF A PROPERTY. WHERE FRONTAGE SIDEWALK EXISTS BUT DOES NOT MEET THE STANDARDS OF CHAPTER 98, ARTICLE IV, THE SIDEWALK SHALL BE RE-LAND TO MEET THE STANDARDS. SIDEWALK SHALL INCLUDE BARRIER-FREE ACCESS RAMPING AT POINTS OF INTERSECTION WITH STREET CROSSINGS AND AT OTHER LOCATIONS SO AS TO AFFORD REASONABLE BARRIER-FREE PEDESTRIAN MOVEMENT AND SITE ACCESS.
- IN ACCORDANCE TO APPENDIX A, ARTICLE VI, SECTION B.3, ALL SIDEWALKS SHALL ASCEND FROM THE CURBSTONE TO THE BUILDING LINE AT THE RATIO OF ONE-QUARTER OF AN INCH TO THE FOOT. NOTHING IN THIS SECTION SHALL BE CONSTRUED TO AFFECT ANY PAVEMENT PREVIOUSLY LAID BY ORDER OF THE CITY COUNCIL, UNTIL IT IS TAKEN UP AND RELAID.

WATER NOTES

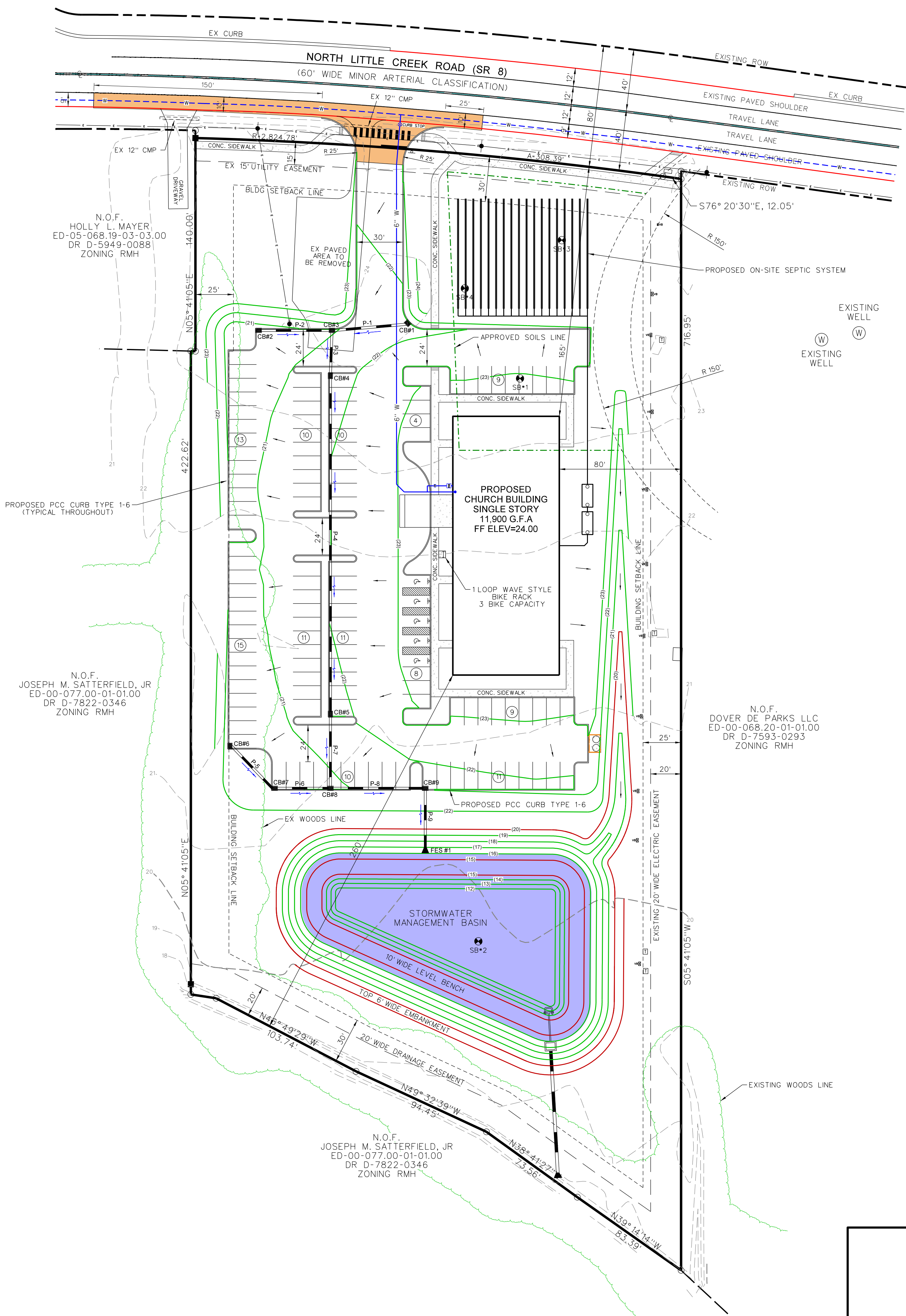
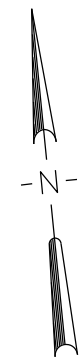
- ALL EXISTING UTILITIES SHALL BE ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH THE CURRENT CITY OF DOVER REQUIREMENTS AND PRACTICES.
- ALL WATER UTILITY COMPONENTS MUST MEET THE REQUIREMENTS OF THE WATER WASTEWATER HANDBOOK, EFFECTIVE MARCH 22, 2010.
- HYDRANT CONNECTIONS BY THE CONTRACTOR ARE PROHIBITED. THIS METHOD MAY NOT BE UTILIZED DURING ANY PHASE OF THE PROJECT.
- ANY EXISTING WATER LINES NOT TO BE UTILIZED BY THE PROPOSED FACILITY MUST BE PROPERLY ABANDONED AT THE MAINS IN ACCORDANCE WITH THE CITY OF DOVER DEPARTMENT OF WATER & WASTEWATER SPECIFICATIONS AND REQUIREMENTS.
- THE SITE CONTRACTOR SHALL CONTACT THE CITY OF DOVER DEPARTMENT OF WATER & WASTEWATER CONSTRUCTION MANAGER AT (302) 736-7025 PRIOR TO THE START OF CONSTRUCTION. A REPRESENTATIVE FROM THE CITY OF DOVER DEPARTMENT OF WATER & WASTEWATER MUST OBSERVE AND APPROVE ALL CITY OWNED WATER AND SANITARY SEWER INTERCONNECTIONS AND TESTING. ALL WATER TAPS MUST BE PERFORMED BY A CITY OF DOVER APPROVED CONTRACTOR. THE PROPOSED LOCATION FOR THE WATER CONNECTION MAY NEED TO BE ADJUSTED IN THE FIELD DUE TO CONDITIONS OF THE EXISTING MAIN. POSSIBLE CONDITIONS THAT MAY REQUIRE TAPPING RELOCATION INCLUDE PROXIMITY TO PIPE JOINTS, OTHER TAPS, CONCRETE ENCASEMENTS, CONFLICT WITH OTHER UTILITIES, AND THE LIKE. TEST HOLES MUST BE PERFORMED BY THE CONTRACTOR TO DETERMINE THE BEST TAPPING LOCATION. THE CITY OF DOVER WILL NOT BE HELD RESPONSIBLE FOR FIELD CONDITIONS REQUIRING ADJUSTMENT OF THE TAPPING LOCATION OR FOR ANY WORK REQUIRED BY THE CONTRACTOR TO MAKE AN APPROPRIATE AND LAWFUL CONNECTION.
- A NEW 5/8" x 3/4" MUELLER 420 SERIES WATER METER SHALL BE INSTALLED FOR THIS BUILDING. THE METER MUST BE PURCHASED THROUGH THE CITY OF DOVER. PLEASE CONTACT OUR OFFICE A MINIMUM OF SIX (6) WEEKS PRIOR TO REQUIRING THE METER. A DUAL CHECK VALVE MUST BE INSTALLED DOWNSTREAM OF THE METER. A WATER METER BYPASS LINE IS NOT PERMITTED FOR THIS TYPE OF BUILDING APPLICATION.
- ONCE THE TENANT IS DETERMINED, THE BACKFLOW PREVENTION ASSEMBLY THAT WILL BE REQUIRED WILL BE DETERMINED.

WASTEWATER NOTES

- ALL WASTEWATER UTILITY COMPONENTS MUST MEET THE REQUIREMENTS OF THE WATER WASTEWATER HANDBOOK, EFFECTIVE MARCH 22, 2010.
- ANY EXISTING SANITARY SEWER LINES NOT TO BE UTILIZED BY THE PROPOSED FACILITY MUST BE PROPERLY ABANDONED AT THE MAINS IN ACCORDANCE WITH THE CITY OF DOVER DEPARTMENT OF WATER AND WASTEWATER SPECIFICATIONS AND REQUIREMENTS.
- PART II, CHAPTER 180, ARTICLE III, SECTION 180-10 OF THE CODE OF KENT COUNTY REQUIRES THAT "NO PERSON SHALL DISCHARGE OR CAUSE TO BE DISCHARGED ANY STORMWATER, SURFACE WATER, UNCONTAMINATED GROUNDWATER, ROOF RUNOFF, SUBSURFACE DRAINAGE, UNCONTAMINATED NONCONTACT COOLING WATER, OR UNPOLLUTED INDUSTRIAL PROCESS WATERS TO ANY SANITARY SEWER". THIS SHALL INCLUDE CONDENSATE, SEC. 110-231 OF THE CITY OF DOVER CODE DEFINES STORM SEWER AS ". ANY SYSTEM USED FOR CONVEYING RAIN WATER, SURFACE WATER, CONDENSATE, COOLING WATER OR SIMILAR LIQUID WASTES, EXCLUSIVE OF SEWAGE." THE CONTRACTOR, DEVELOPER, OWNER AND DESIGNERS SHALL ENSURE DURING CONSTRUCTION THAT NO ILLEGAL DISCHARGES TO THE SANITARY SEWER SYSTEM ARE CREATED WITH THE SITE IMPROVEMENTS.

LEGEND

PROPERTY BOUNDARY	=====
RIGHT-OF-WAY LINE	=====
LOT LINE	=====
BUILDING SETBACK LINE	-----
EXISTING CONTOUR	---(26)---
PROPOSED CONTOUR	---(26)---
EXISTING STORM DRAIN	=====
PROPOSED STORM DRAIN	=====
EXISTING SANITARY SEWER	---S---
PROPOSED SANITARY SEWER	---S---
EXISTING WATER LINE	---W---
PROPOSED WATER LINE	---W---
EXISTING UTILITY POLE	●
EXISTING ROAD SIGN	⊕
EXISTING SPOT ELEVATION	26x27
PROPOSED SPOT ELEVATION	(26x27)



LOCATION MAP SCALE: 1" = 400'

DATA COLUMN

TAX PARCEL NO:	ED-05-068.19-03-02.00-000
ACREAGE WITHIN BOUNDARIES:	4.6686 AC (203,366 S.F.)
EXISTING ZONING:	RG-2 (GENERAL RESIDENCE)
EXISTING USE:	VACANT
PROPOSED USE:	CHURCH
RG-2 BULK STANDARDS:	REQUIRED PROPOSED
FRONT YARD SETBACK:	30' 160'
SIDE YARD SETBACK:	25' 80'
REAR YARD SETBACK:	30' 260'
MINIMUM LOT WIDTH:	100' 320'
MINIMUM LOT DEPTH:	125' 150'
MINIMUM LOT AREA:	1,700 204,967 SF
NUMBER OF STORIES:	3 1
MAXIMUM BUILDING HEIGHT:	35' 12'
MAXIMUM BUILDING COVERAGE:	20% 5.85%
PROPOSED BUILDING GFA:	11,900 S.F.
NUMBER OF SEATS:	193 SEATS
PARKING REQUIRED:	60 SPACES (11,900 SF)(1 SP/200 SF) = 60 (193 SEATS)(1 SP/4 SEATS) = 49
PARKING PROVIDED:	121 SPACES (5 HANDICAP)
BUILDING CONSTRUCTION TYPE:	TYPE II (000) METAL & MASONRY
PROPOSED BUILDING HEIGHT:	12 FEET (SINGLE STORY)
EXISTING IMPERVIOUS SURFACE:	0.105 ACRE
PROPOSED IMPERVIOUS SURFACE:	0.310 ACRE
VERTICAL DATUM:	NAVD 88
HORIZONTAL DATUM:	NAD 83
PERMANENT MONUMENTS FOUND:	3 (IPF)
PERMANENT MONUMENTS PLACED:	0
WATER SERVICE:	CITY OF DOVER
SEWER SERVICE:	PRIVATE ON-SITE SEPTIC
INVESTMENT LEVEL:	1
OWNER OF RECORD:	NEW HARVEST BAPTIST CHURCH PO BOX 735 DOVER, DE 19903
SITE ADDRESS:	1462 N LITTLE CREEK ROAD DOVER, DE 19901



868 Greenwood Road - Greenwood, DE 19950
(302) 697-2239 - (302) 495-7244

REVISIONS:

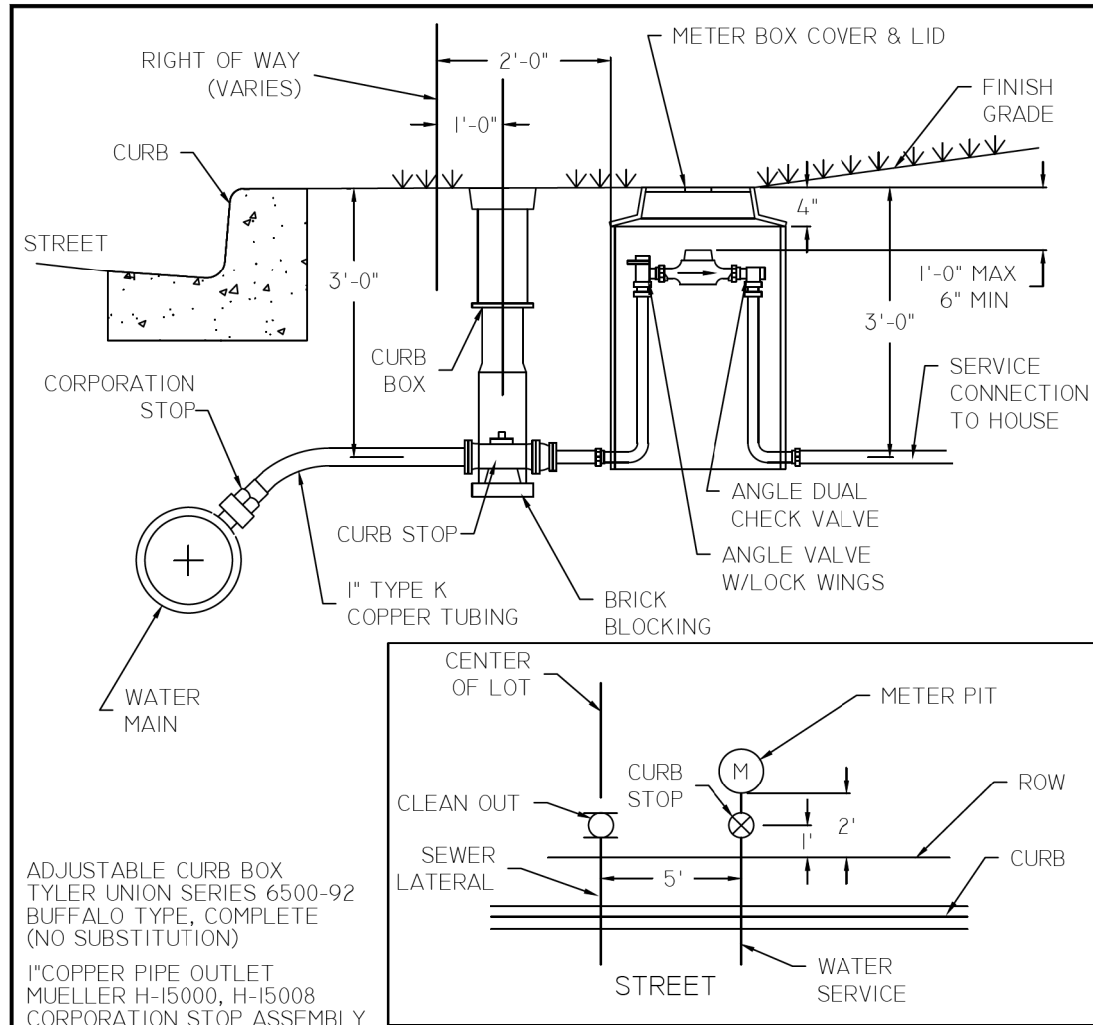
PROJECT NO: 19-068 DGN FILE: 19-068

UTILITY AND GRADING PLAN
NEW HARVEST
BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

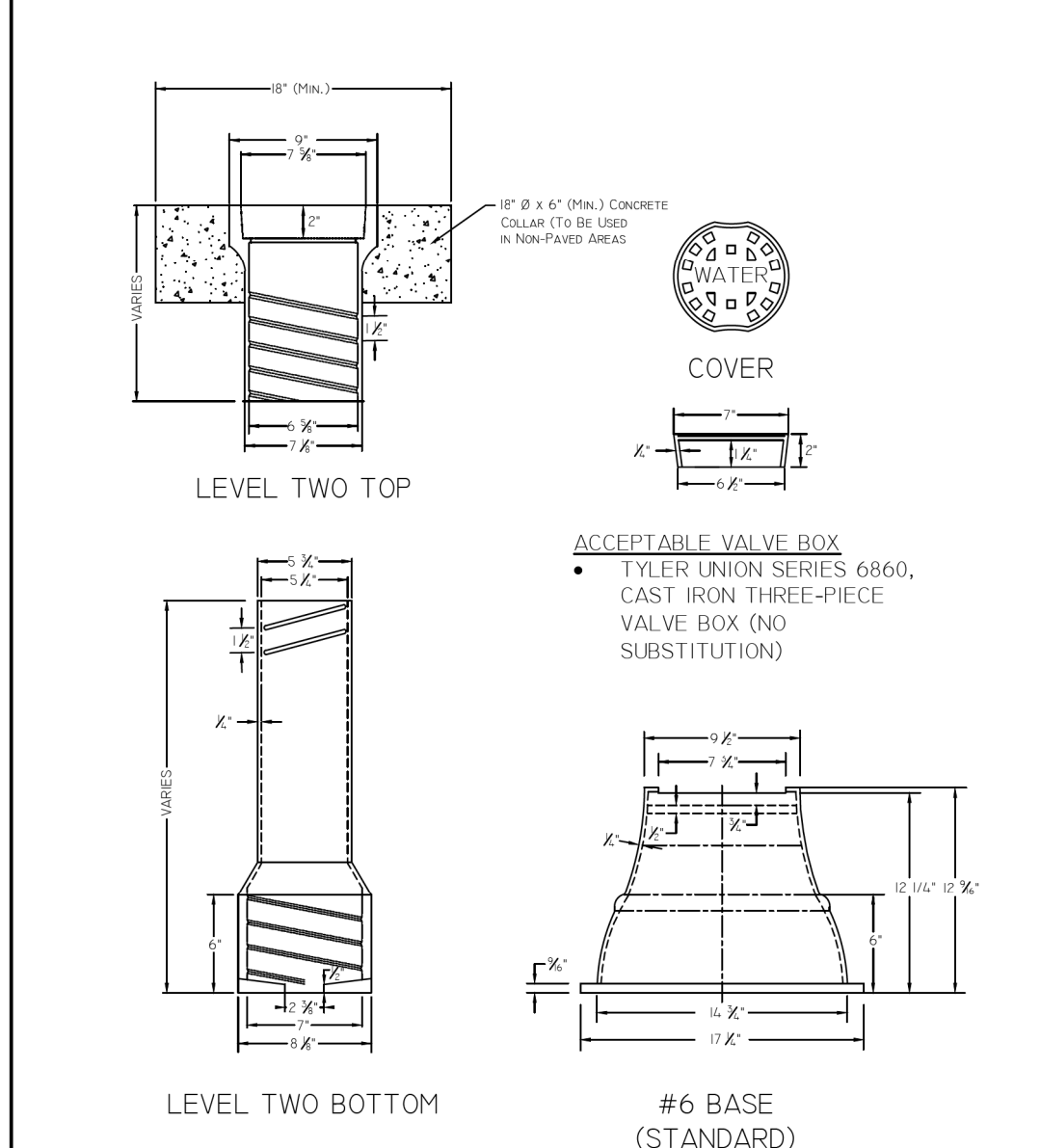
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DATE: 01/03/25 SCALE: 1" = 40' SHT: UP-1

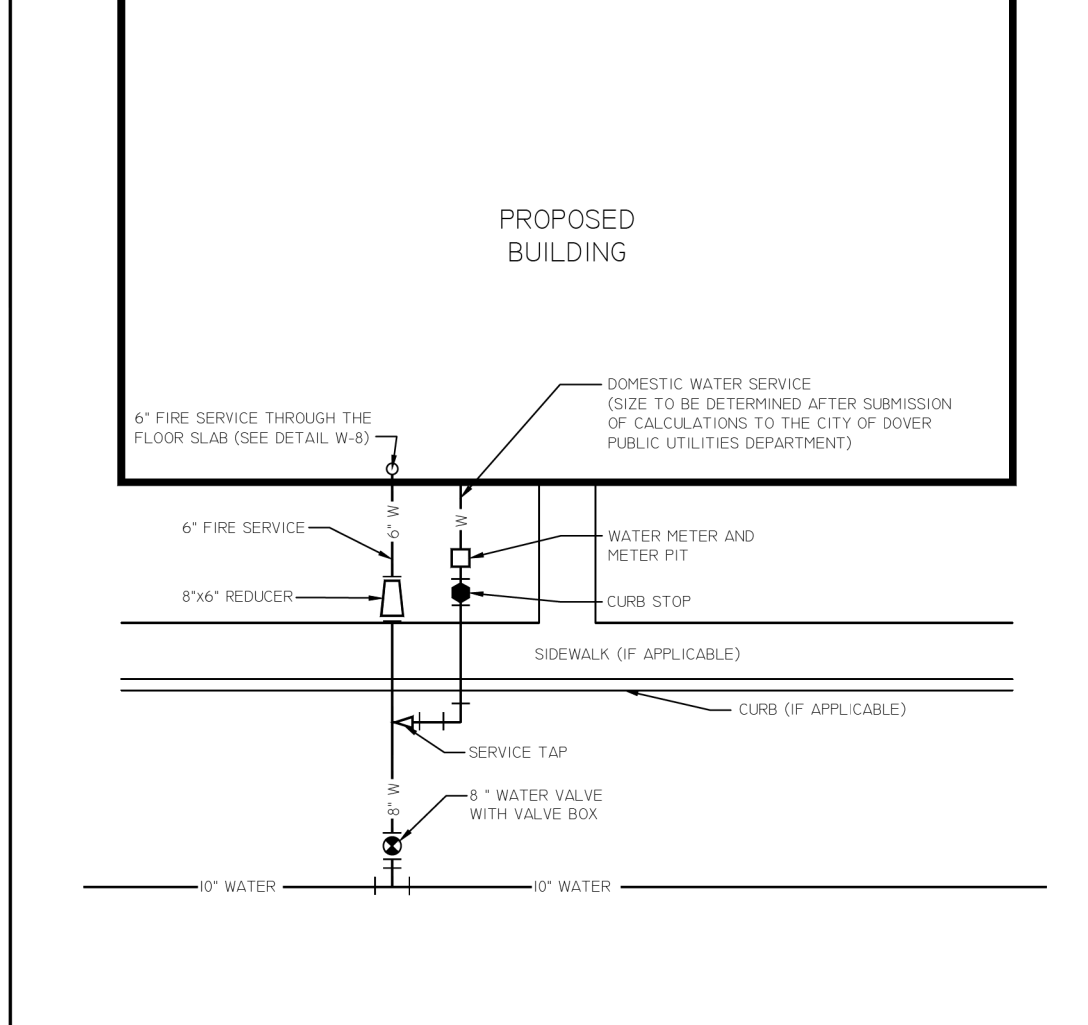


ADJUSTABLE CURB BOX TYLER UNION SERIES 6500-92 BUFFALO TYPE, COMPLETE (NO SUBSTITUTION)
1" COPPER PIPE OUTLET MUELLER H-5000, H-5008 CORPORATION STOP ASSEMBLY MUELLER ORI SEAL CURBSTOP H-10291 (P.F. I.P. H-15176 C.T. I.P. H-15201 C.T. C.T.)

City of Dover	RESIDENTIAL WATER SERVICE & METER PIT INSTALLATION	
	DRAWN: JAL	DATE: 12-09-03
	CKD: R.H./REM	SCALE: NONE
	APRVD: S.J.D	DWG. NO: W-1

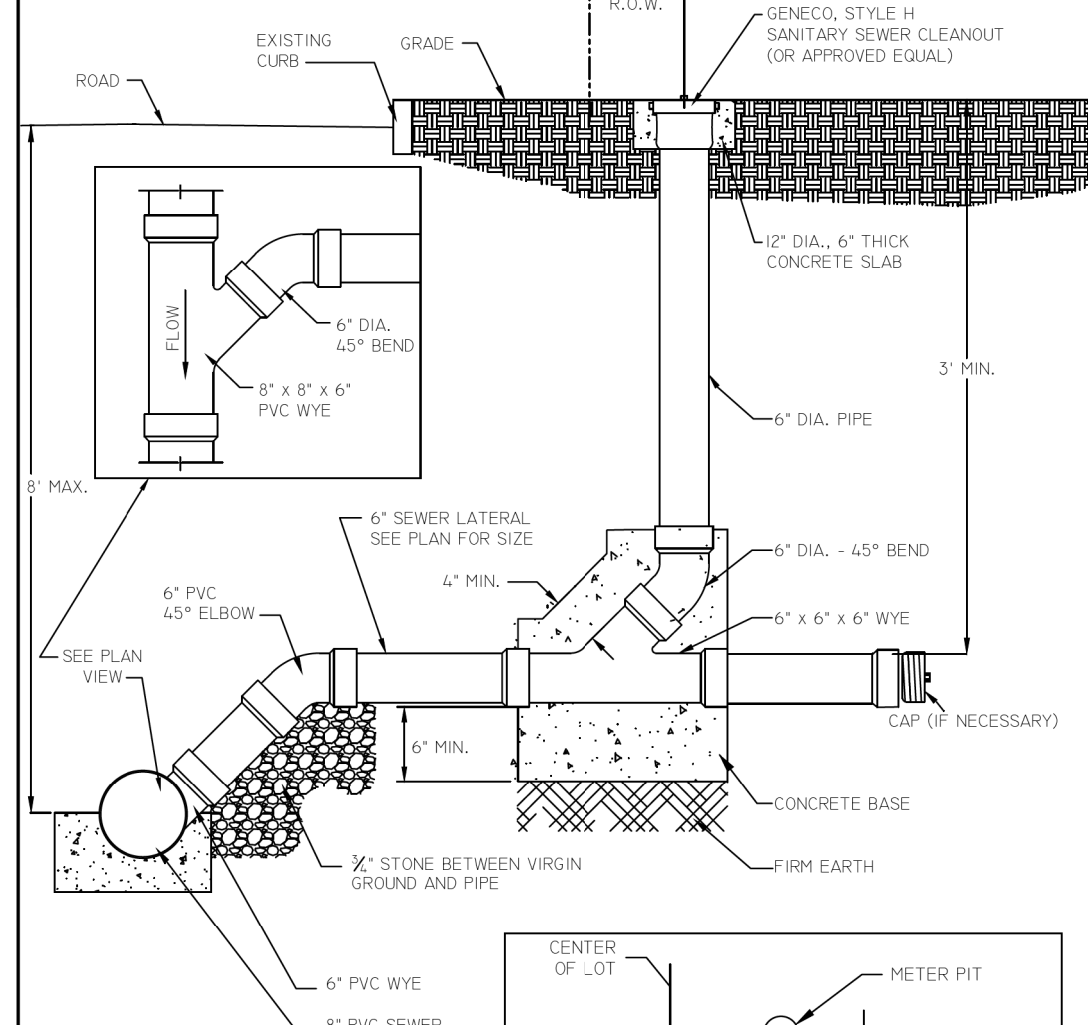


City of Dover	VALVE BOX - SCREW TYPE	
	DRAWN: JAL	DATE: 06-30-08
	CKD: R.H./REM	SCALE: NTS
	APRVD: S.J.D	DWG. NO: W-2



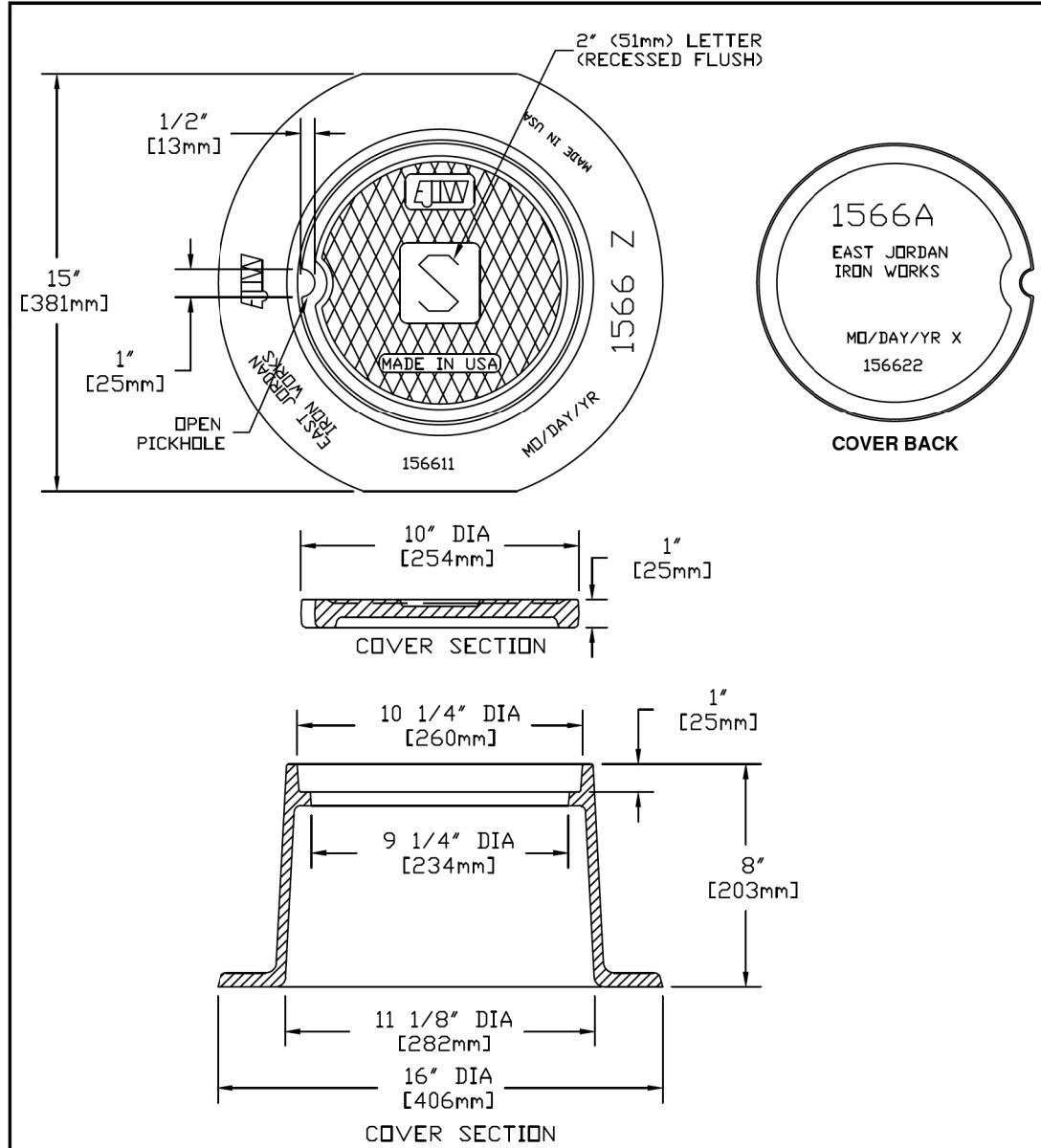
NOTES:
1. THE PURPOSE OF THIS DETAIL IS TO ILLUSTRATE A TYPICAL FIRE SERVICE CONNECTION. THE DESIGNER SHALL BE RESPONSIBLE FOR MODIFICATIONS OF THIS DETAIL PER THEIR PARTICULAR SITE PLAN.
2. THE CITY OF DOVER PUBLIC UTILITIES DEPARTMENT RESERVES THE RIGHT TO MODIFY THIS DETAIL PER THE LAYOUT OF THE SITE.

City of Dover	DOMESTIC AND FIRE SERVICE CONNECTION	
	DRAWN: JAL	DATE: 06-30-08
	CKD: R.H./REM	SCALE: NTS
	APRVD: S.J.D	DWG. NO: W-3

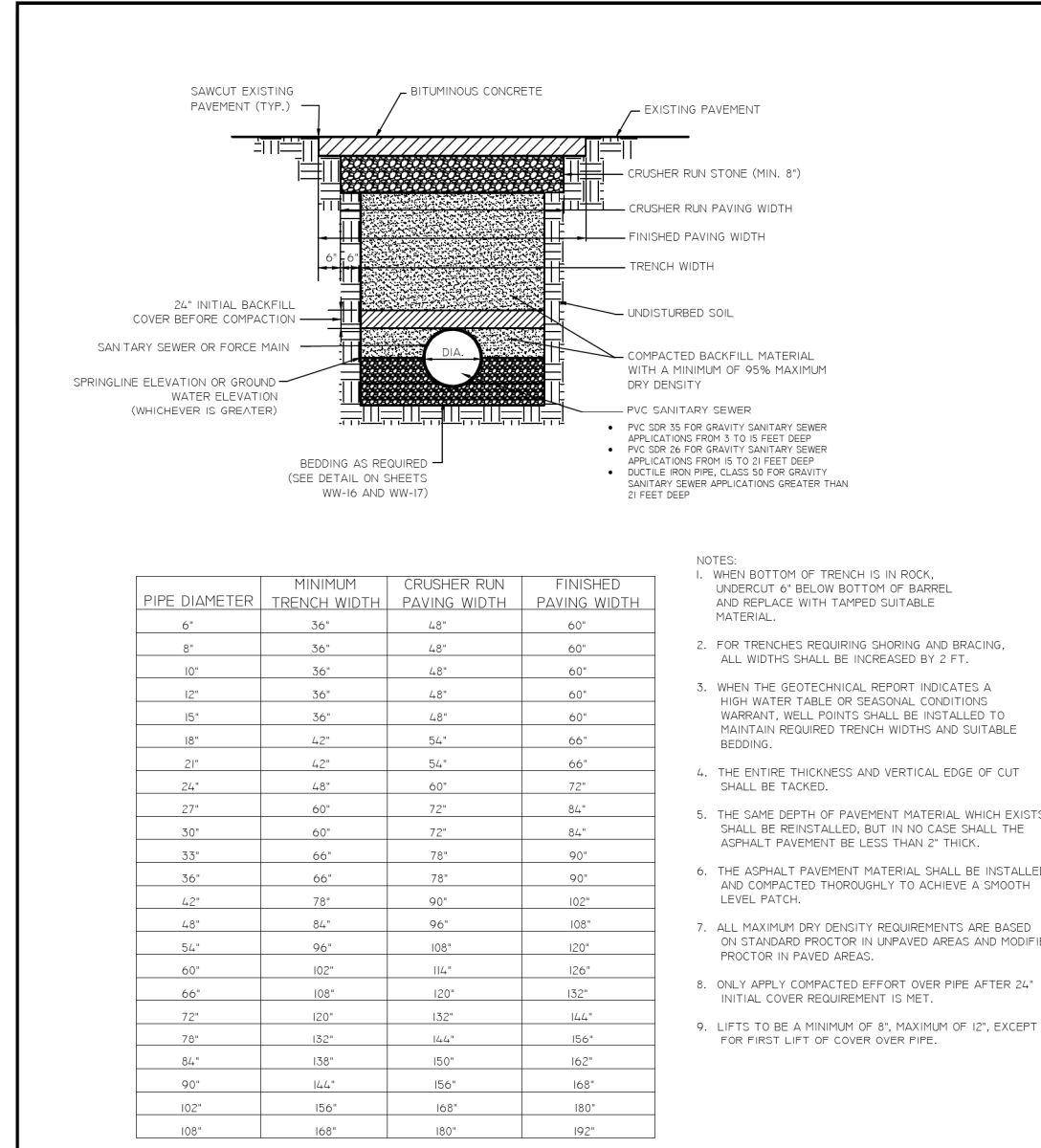


NOTES:
1. THE PURPOSE OF THIS DETAIL IS TO ILLUSTRATE A TYPICAL SEWER LATERAL CONNECTION. THE DESIGNER SHALL BE RESPONSIBLE FOR MODIFICATIONS OF THIS DETAIL PER THEIR PARTICULAR SITE PLAN.
2. THE CITY OF DOVER PUBLIC UTILITIES DEPARTMENT RESERVES THE RIGHT TO MODIFY THIS DETAIL PER THE LAYOUT OF THE SITE.

City of Dover	RESIDENTIAL SEWER LATERAL DEPTH UP TO 8'	
	DRAWN: JAL	DATE: 01-05-09
	CKD: R.H./REM	SCALE: NTS
	APRVD: S.J.D	DWG. NO: WW-1



City of Dover	SANITARY SEWER CLEANOUT DETAIL	
	DRAWN: JAL	DATE: 12-01-08
	CKD: R.H./REM	SCALE: NTS
	APRVD: S.J.D	DWG. NO: WW-2



City of Dover	TRENCH PAVEMENT WIDTH	
	DRAWN: JAL	DATE: 01-05-09
	CKD: R.H./REM	SCALE: NTS
	APRVD: S.J.D	DWG. NO: WW-3



868 Greenwood Road - Greenwood, DE 19950
(302) 697-2239 - (302) 495-7244

REVISIONS:

PROJECT NO: 19-068	DGN FILE: 19-068
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UTILITY PLAN DETAILS NEW HARVEST BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

0 20 40 80

DATE: 01/03/25 SCALE: 1" = 40' SHT: UP-2

SEQUENCE OF CONSTRUCTION

- OBTAIN ALL REQUIRED PERMITS FROM THE APPROPRIATE AGENCIES.
- NOTIFY THE KENT CONSERVATION DISTRICT FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AND CONDUCTED WITH THE AGENCY CONSTRUCTION SITE REVIEWER, THE LAND OWNER/DEVELOPER, CONTRACTOR, AND CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO ATTEND THE PRE-CONSTRUCTION MEETING.
- INSTALL SILT FENCING IN LOCATIONS SHOWN ON THE APPROVED PLAN.
- INSTALL INLET PROTECTION ON EXISTING STORM SEWER INLETS IF NECESSARY.
- CONTACT THE KENT CONSERVATION DISTRICT INSPECTOR FOR A PERIMETER INSPECTION PRIOR TO PROCEEDING TO THE NEXT STEP IN THE SEQUENCE OF CONSTRUCTION.
- ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE KENT CONSERVATION DISTRICT SITE INSPECTOR AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
- NOTIFY THE KENT CONSERVATION DISTRICT SITE INSPECTOR AND CCR A MINIMUM OF THREE (3) DAYS PRIOR TO THE START OF THE STORMWATER SYSTEM CONSTRUCTION. STORMWATER FACILITIES MUST BE REVIEWED THROUGHOUT THEIR CONSTRUCTION.
- STORMWATER MANAGEMENT BASIN CONSTRUCTION SEQUENCE (REFER TO POND CODE 378 SPECIFICATIONS):
 - CLEAR AND GRUB AREA FOR STORMWATER BASIN. PLACE EXCAVATED MATERIAL IN APPROVED TEMPORARY SOIL STOCKPILE LOCATION.
 - CONSTRUCT STORMWATER BASIN POND EMBANKMENT.
 - POND FILL EMBANKMENT SHALL BE CONSTRUCTED WITH POND STRUCTURAL FILL PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698 (AASHTO T-99).
 - THE CONTRACTOR SHOULD BE PREPARED TO STABILIZE AND DEWATER POND EXCAVATIONS. IN ADDITION TO PUMPING FOR PUMPS, WELL POINTS WILL BE REQUIRED TO FACILITATE DEWATERING.
 - LAYOUT POND SLOPES, BENCHES AND OUTFALL STRUCTURE WITH OUTFALL CHANNEL. THE KENT CONSERVATION DISTRICT INSPECTOR MUST BE NOTIFIED AND BE ON SITE FOR INSPECTION DURING INSTALLATION OF THE OUTFALL STRUCTURE.
 - EXCAVATE POND TO DESIGN ELEVATIONS. EXCAVATE POND TO ELEVATION REQUIRED TO INSTALL CLAY LINER (ELEV. Z1.00). STORE EXCAVATED MATERIAL AT THE APPROVED TEMPORARY SOIL STOCKPILE LOCATION.
 - FINAL GRADE AND STABILIZE SLOPES AS EXCAVATION CONTINUES.
 - INSTALL FOREBAYS WITH CHAIN LINK GABIONS.
 - INSTALL INLET PIPES WITH RIPRAP APRONS.
 - FINAL GRADE BENCHES AND BOTTOM AND COMPLETE FINAL STABILIZATION.
 - INSTALL TEMPORARY FLOATING SKIMMER DE-WATERING DEVICE FOR SEDIMENT CONTROL DURING CONSTRUCTION.
- STRIP TOPSOIL IN ENTRANCE AND PARKING LOT AREAS AND STOCKPILE IN APPROVED STOCKPILE LOCATIONS SHOWN PER PLANS. TEMPORARY STOCKPILE AREAS TO BE STABILIZED WITH SEED AND MULCH AND SURROUNDED WITH SILT FENCING IN ACCORDANCE WITH THE TEMPORARY STABILIZATION NOTES.
- INSTALL UNDERGROUND UTILITIES INCLUDING ELECTRIC, TELEPHONE, CABLE, WATER, SEWER, AND STORM DRAINAGE. INSTALL INLET PROTECTION AROUND ALL CATCH BASINS.
- INSTALL CURB, FINAL GRADE PARKING AREA, AND INSTALL CRUSHER RUN AS SPECIFIED IN THE CONSTRUCTION DRAWINGS.
- FINE GRADE DISTURBED AREA. STABILIZE WITH SEED AND STRAW MULCH.
- PAVE ENTRANCE AND PARKING AREA TO LIMITS SHOWN.
- FINE GRADE DISTURBED AREA AND PROVIDE FINAL STABILIZATION WITH SEED AND MULCH ON DISTURBED AREAS.
- CONVERT TEMPORARY SEDIMENT TRAP TO PERMANENT STORMWATER MANAGEMENT BASIN FOLLOWING AUTHORIZATION OF A SUSSEX CONSERVATION DISTRICT INSPECTOR.
 - PROPERLY DE-WATER SEDIMENT BASIN IN AN APPROVED MANNER.
 - REMOVE ACCUMULATED SEDIMENT AND RESTORE BASIN TO DESIGN GRADE.
 - REMOVE VERTICAL DE-WATERING DEVICE AND INSTALL AGRI-DRAIN BAR GUARD AS PERMANENT TRASH GUARD FOR THE LOW FLOW ORIFICE.
- AS-BUILT SURVEY OF ALL PERMANENT STORMWATER MANAGEMENT FACILITIES ARE TO BE PERFORMED AND SUBMITTED FOR REVIEW BY THE KENT CONSERVATION DISTRICT PRIOR TO PROJECT CLOSE OUT.
- EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH THE KENT CONSERVATION DISTRICT SITE INSPECTORS' APPROVAL.
- FOLLOWING AUTHORIZATION FROM THE AGENCY CONSTRUCTION SITE REVIEWER, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES, SEED AND MULCH ALL DISTURBED AREAS.
- THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE. ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.
- THE CONTRACTOR SHALL, AT ALL TIMES, PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.

SEDIMENT AND STORMWATER CONSTRUCTION NOTES

- THE KENT CONSERVATION DISTRICT MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- REVIEW AND APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE KENT CONSERVATION DISTRICT.
- FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, TOPSOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROPOSED SITE.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- WHENEVER A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
- APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL.
- POST CONSTRUCTION VERIFICATION DOCUMENTS ARE TO BE SUBMITTED TO THE KENT CONSERVATION DISTRICT WITHIN 60 DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
- APPROVAL OF A SEDIMENT AND STORM WATER PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER NPDES GENERAL PERMIT FOR THIS PROJECT IS # 6780. AT ANY TIME, THE OWNERSHIP FOR THIS PROJECT CHANGES, TRANSFER OF AUTHORIZATION OR A CO-PERMITTEE APPLICATION MUST BE SUBMITTED TO DNREC. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY DNREC.
- THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
- BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH THE REQUIREMENTS OF 7 DEL.C. CH 60 AND THE CURRENT DELAWARE CONSTRUCTION GENERAL PERMIT (CGP).
- DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT OR DELEGATED AGENCY TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN.
- A THIRD PARTY CCR IS REQUIRED FOR THIS PROJECT.
- THE DEPARTMENT OR DELEGATED AGENCY MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.

PROPERTY BOUNDARY	=====
RIGHT-OF-WAY LINE	-----
STREET CENTERLINE	-----
LOT LINE	-----
BUILDING SETBACK LINE	-----
STREAM BUFFER LINE	-----
WETLANDS LINE	-----
WOODS LINE	-----
LOT NUMBER	23
EXISTING CONTOUR	----- 26 -----
PROPOSED CONTOUR	----- (26) -----
EXISTING STORM DRAIN	=====
PROPOSED STORM DRAIN	=====
EXISTING SANITARY SEWER	----- S -----
EXISTING WATER LINE	----- W -----
PROPOSED SANITARY SEWER	----- S -----
PROPOSED WATER LINE	----- W -----
EXISTING UTILITY POLE	●
EXISTING ROAD SIGN	⊕
EXISTING SPOT ELEVATION	26×27
PROPOSED SPOT ELEVATION	(26×27)
SILT FENCE	— SF — SF —
SUPER SILT FENCE	— SSF —
SOIL DELINEATION LINE	-----
LIMIT OF DISTURBANCE LINE	— LOD —
INLET PROTECTION TYPE 2	IP-2
COMPOST FILTER LOG	— CFL —

LEGEND

SHEET INDEX

SHEET KCD-1	SEDIMENT & STORMWATER COVER SHEET
SHEET KCD-2	SEDIMENT & STORMWATER MANAGEMENT PLAN
SHEET KCD-3	SEDIMENT AND STORMWATER DETAILS
SHEET KCD-4	SEDIMENT AND STORMWATER DETAILS

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.

KEVIN R. MINNICH, PROFESSIONAL ENGINEER MINNICH ENGINEERING & LAND PLANNING INC. 868 GREENWOOD ROAD GREENWOOD, DE 19950 (302) 697-2239 VOICE krminnich@comcast.net	DATE
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OWNER'S CERTIFICATION:

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED PLAN AND THAT RESPONSIBLE PERSONNEL (I.E., BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCED ON THIS COVER SHEET.

NEW HARVEST BAPTIST CHURCH 1462 N LITTLE CREEK ROAD DOVER, DE 19901 MR JIM CLARK (302) 724-0028 vjcappraisal@gmail.com

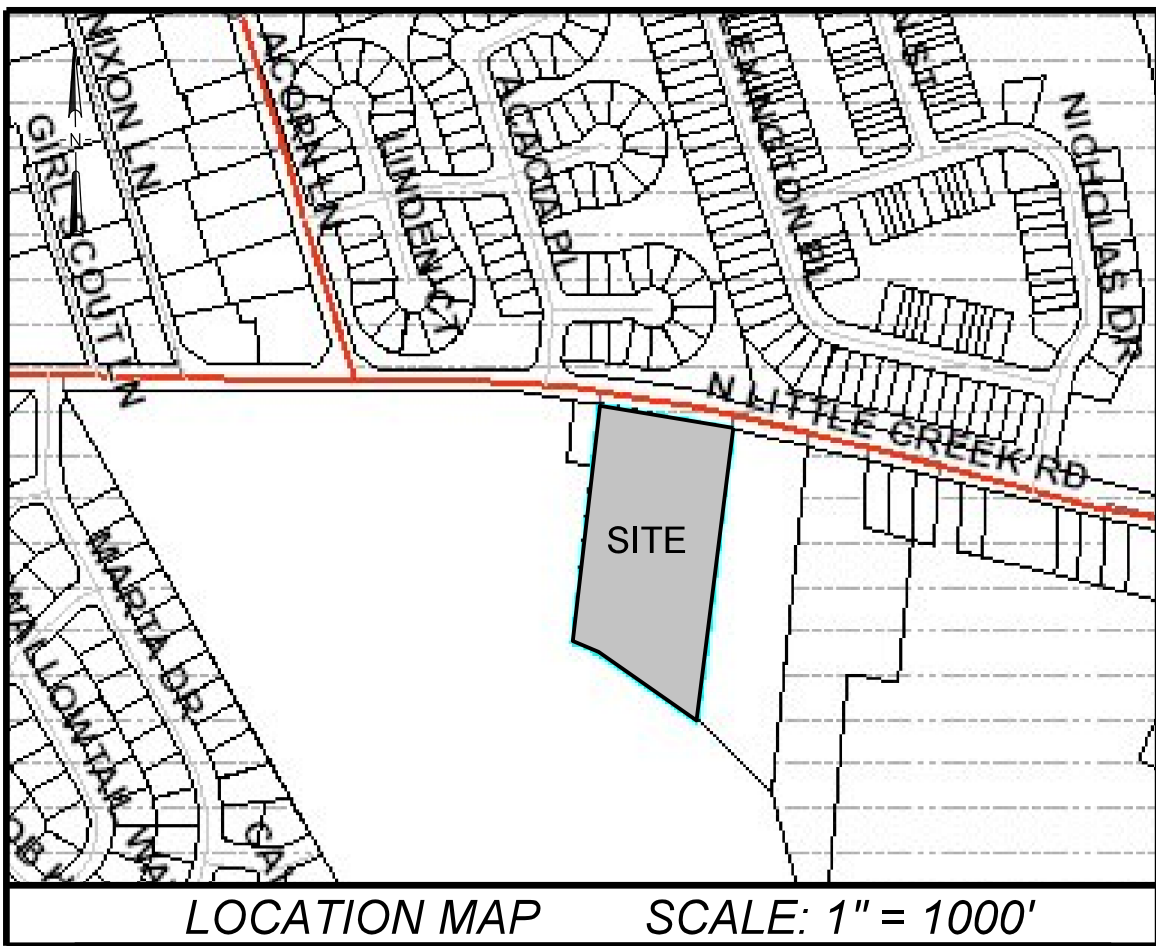


868 Greenwood Road - Greenwood, DE 19950
(302) 697-2239 - (302) 495-7244

REVISIONS:
PROJECT NO: 19-068
DGN FILE: 19-068

DATA COLUMN

TAX PARCEL NO:	ED-05-068.19-03-02.00-000
ACREAGE WITHIN BOUNDARIES:	4.6686 AC (203,366 S.F.)
EXISTING ZONING:	RG-2 (GENERAL RESIDENCE)
EXISTING USE:	VACANT
PROPOSED USE:	CHURCH
RG-2 BULK STANDARDS:	REQUIRED PROPOSED
FRONT YARD SETBACK:	30' 160'
SIDE YARD SETBACK:	25' 80'
REAR YARD SETBACK:	30' 260'
MINIMUM LOT WIDTH:	100' 320'
MINIMUM LOT DEPTH:	125' 150'
MINIMUM LOT AREA:	1,700 204,967 SF
NUMBER OF STORIES:	3 1
MAXIMUM BUILDING HEIGHT:	35' 12'
MAXIMUM BUILDING COVERAGE:	20% 5.85%
PROPOSED BUILDING GFA:	11,900 S.F.
NUMBER OF SEATS:	193 SEATS
PARKING REQUIRED:	60 SPACES (11,900 SF)/(1 SP/200 SF) = 60 (193 SEATS)/(1 SP/4 SEATS) = 49
PARKING PROVIDED:	121 SPACES (5 HANDICAP)
BUILDING CONSTRUCTION TYPE:	TYPE II (000) METAL & MASONRY
PROPOSED BUILDING HEIGHT:	12 FEET (SINGLE STORY)
EXISTING IMPERVIOUS SURFACE:	0.105 ACRE
PROPOSED IMPERVIOUS SURFACE:	0.310 ACRE
VERTICAL DATUM:	NAVD 88
HORIZONTAL DATUM:	NAD 83
PERMANENT MONUMENTS FOUND:	2 (CMF)
PERMANENT MONUMENTS PLACED:	0
WATER SERVICE:	CITY OF DOVER
SEWER SERVICE:	PRIVATE ON-SITE SEPTIC
INVESTMENT LEVEL:	1
OWNER OF RECORD:	NEW HARVEST BAPTIST CHURCH PO BOX 735 DOVER, DE 19903
SITE ADDRESS:	1462 N LITTLE CREEK ROAD DOVER, DE 19901

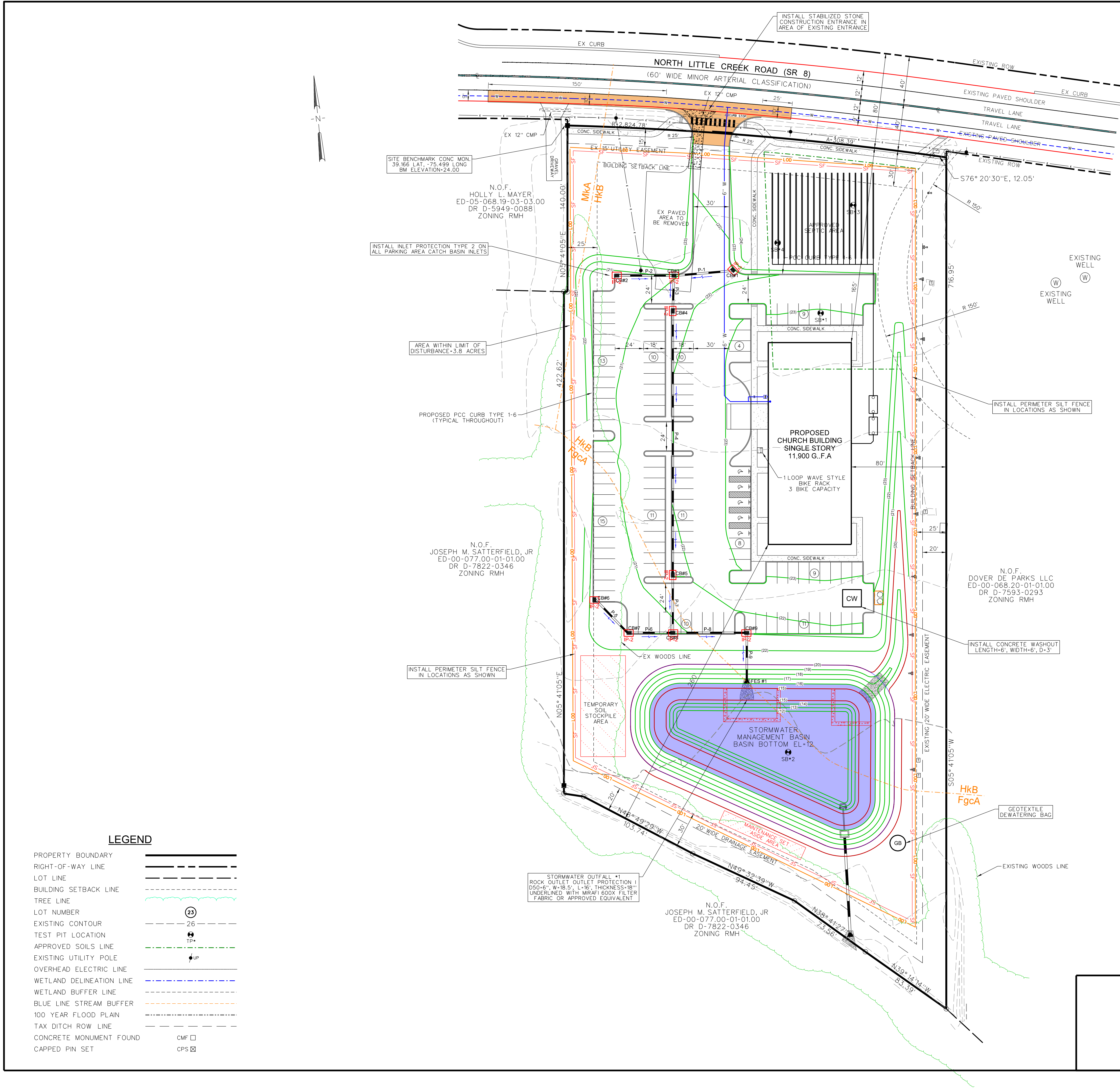


COVER SHEET

NEW HARVEST BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

DATE: 01/03/25 NOT TO SCALE SHT: KCD-1



SOILS DESCRIPTION

HkB—Hambrook-Urban land complex, 0 to 5 percent slopes

Map Unit Setting
National map unit symbol: 1qx74
Elevation: 0 to 260 feet
Mean annual precipitation: 40 to 48 inches
Mean annual air temperature: 52 to 58 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition
Hambrook and similar soils: 45 percent
Urban land: 35 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hambrook

Setting
Landform: Depressions, knolls, fluvio-marine terraces, flats
Landform position (three-dimensional): Rise
Down-slope shape: Concave, convex, linear
Across-slope shape: Concave, convex, linear

Typical profile
Ap - 0 to 10 inches: sandy loam
BE - 10 to 14 inches: loam
Bt - 14 to 28 inches: sandy clay loam
BC - 28 to 65 inches: loamy sand
2Cg - 65 to 80 inches: silt loam

Properties and qualities
Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 1.98 in/hr)
Depth to water table: About 40 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply: 0 to 60 inches: Moderate (about 7.9 inches)

FgC—Fallsington loams, 0 to 2 percent slopes, Mid-Atlantic Coastal Plain

Map Unit Setting
National map unit symbol: 2s96t
Elevation: 10 to 70 feet
Mean annual precipitation: 42 to 48 inches
Mean annual air temperature: 52 to 58 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Fallsington, undrained, and similar soils: 38 percent
Fallsington, drained, and similar soils: 37 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fallsington, Undrained

Setting
Landform: Swales, depressions, flats, drainageways
Landform position (three-dimensional): Dip, tall
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Parent material: Loamy fluvio-marine deposits

Typical profile
Os - 0 to 2 inches: mucky peat
A - 2 to 10 inches: loam
Bg - 10 to 32 inches: sandy clay loam
BCg - 32 to 39 inches: loamy sand
Cg1 - 39 to 46 inches: sandy clay loam
Cg2 - 46 to 80 inches: sand

Properties and qualities
Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.01 to 1.98 in/hr)
Depth to water table: About 0 to 10 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.3 mmhos/cm)
Available water supply: 0 to 60 inches: Moderate (about 8.8 inches)

MkA—Matapeake silt loam, 0 to 2 percent slopes

Map Unit Setting
National map unit symbol: 1qx8p
Elevation: 10 to 120 feet
Mean annual precipitation: 42 to 48 inches
Mean annual air temperature: 52 to 58 degrees F
Frost-free period: 180 to 220 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Matapeake and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Matapeake

Setting
Landform: Flats
Landform position (three-dimensional): Tall
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty eolian deposits over fluvio-marine sediments

Typical profile
Ap - 0 to 5 inches: silt loam
E - 5 to 11 inches: silt loam
Bt - 11 to 34 inches: silt loam
2Bt - 34 to 38 inches: sandy loam
2C - 38 to 80 inches: loamy sand

Properties and qualities
Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply: 0 to 80 inches: High (about 9.0 inches)

LEGEND

PROPERTY BOUNDARY	—
RIGHT-OF-WAY LINE	---
LOT LINE	---
BUILDING SETBACK LINE	---
TREE LINE	---
LOT NUMBER	23
EXISTING CONTOUR	---
TEST PIT LOCATION	TP
APPROVED SOILS LINE	---
EXISTING UTILITY POLE	UP
OVERHEAD ELECTRIC LINE	---
WETLAND DELINEATION LINE	---
WETLAND BUFFER LINE	---
BLUE LINE STREAM BUFFER	---
100 YEAR FLOOD PLAIN	---
TAX DITCH ROW LINE	---
CONCRETE MONUMENT FOUND	CMF
CAPPED PIN SET	CPS



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REVISIONS:

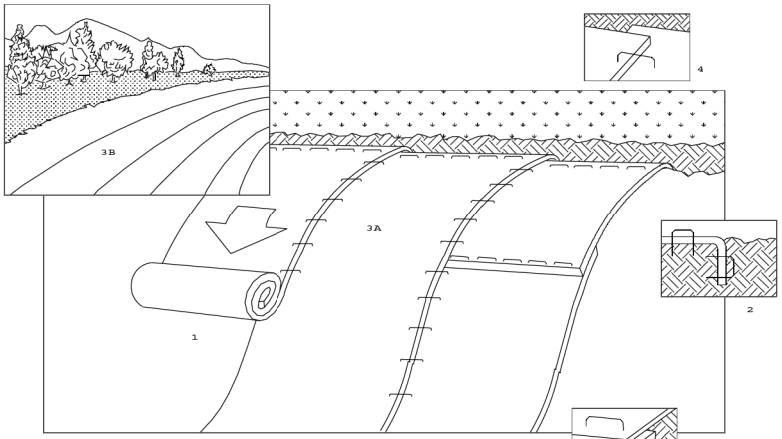
PROJECT NO: 19-068	DGN FILE: 19-068

SEDIMENT & EROSION CONTROL PLAN
NEW HARVEST BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

DATE: 01/03/25 NOT TO SCALE SHT: KCD-2

Standard Detail & Specifications
Stabilization Matting - Slope



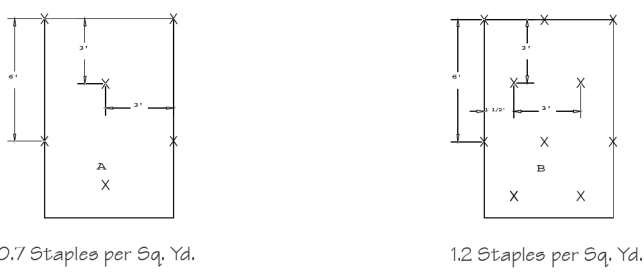
Perspective

Construction Notes:

1. Prepare soil before installing matting, including application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the mat in a 6" deep X 6" wide trench. Backfill and compact trench after staking.
3. Roll the mats (A) down or (B) horizontally across the slope.
4. The edges of parallel mats must be stapled with approx. 2" overlap.
5. When mats must be spliced down the slope, place mats end over end (shingle style) with approx. 4" overlap. Staple through overlapped area, approx. 12" apart.

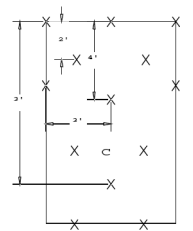
Source:	Symbol:	Detail No.
Adapted from North American Green, Inc.		DE-ESC-3.4.6.1 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Stabilization Matting - Slope



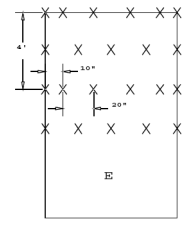
0.7 Staples per Sq. Yd.

1.2 Staples per Sq. Yd.



1.75 Staples per Sq. Yd.

3.5 Staples per Sq. Yd.



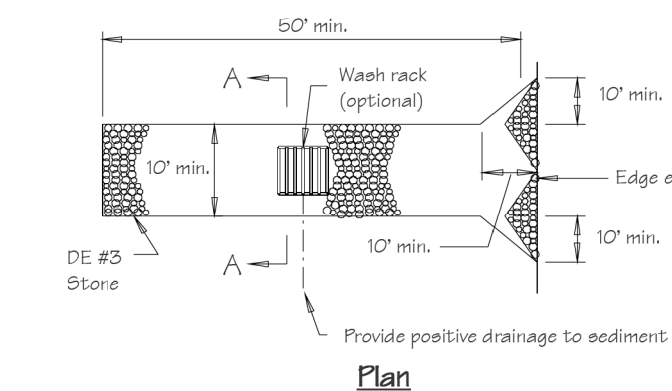
3.75 Staples per Sq. Yd.

Stapling Patterns

NOTE: These patterns are provided for general guidance only. They shall not be used as a substitute for manufacturer's recommendations.

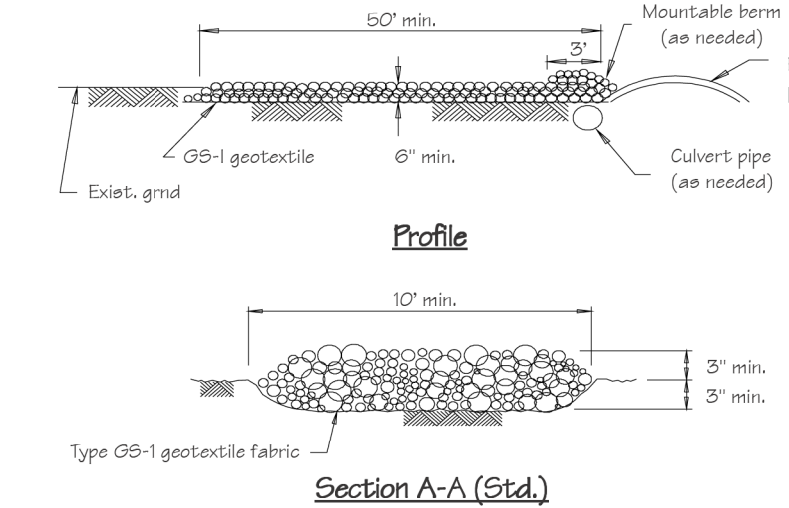
Source:	Symbol:	Detail No.
Adapted from North American Green, Inc.		DE-ESC-3.4.6.1 Sheet 2 of 2 Effective July 2023

Standard Detail & Specifications
Stabilized Construction Entrance



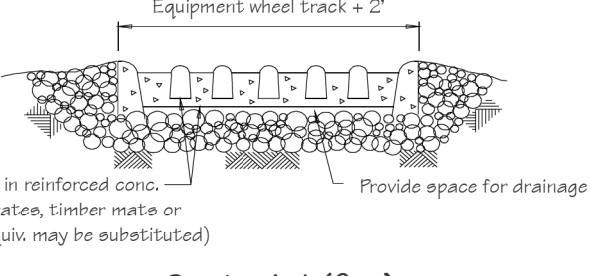
Plan

Profile



Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook		DE-ESC-3.4.7 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Stabilized Construction Entrance



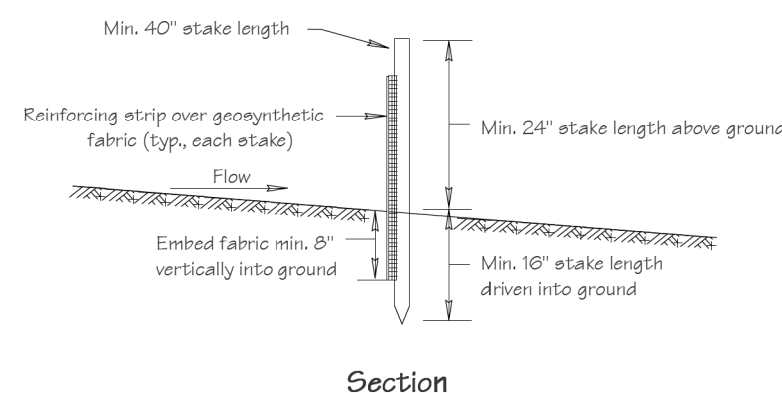
Section A-A (Opt.)

Construction Notes:

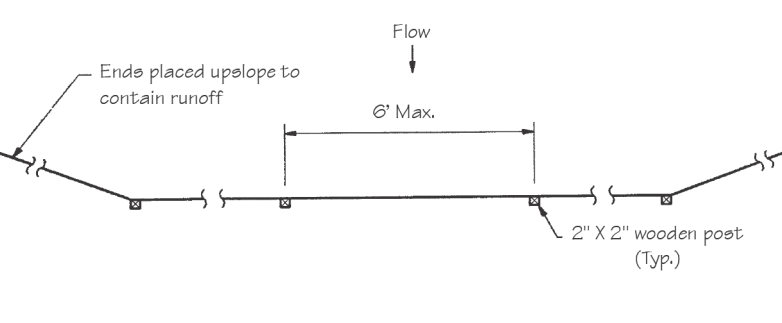
1. **Stone size** - Use DE #3 stone.
2. **Length** - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. **Thickness** - Not less than size (6) inches.
4. **Width** - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. **Geotextile** - Type GS-1, placed over the entire area prior to placing of stone.
6. **Surface Water** - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. **Maintenance** - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. **Washing** - Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. **Inspection** - Periodic inspection and needed maintenance shall be provided after each rain.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook		DE-ESC-3.4.7 Sheet 2 of 2 Effective July 2023

Standard Detail & Specifications
Silt Fence



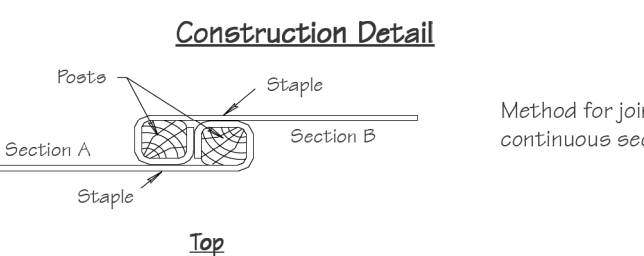
Section



Plan

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC		DE-ESC-3.1.2.1 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Silt Fence



Top

Construction Notes:

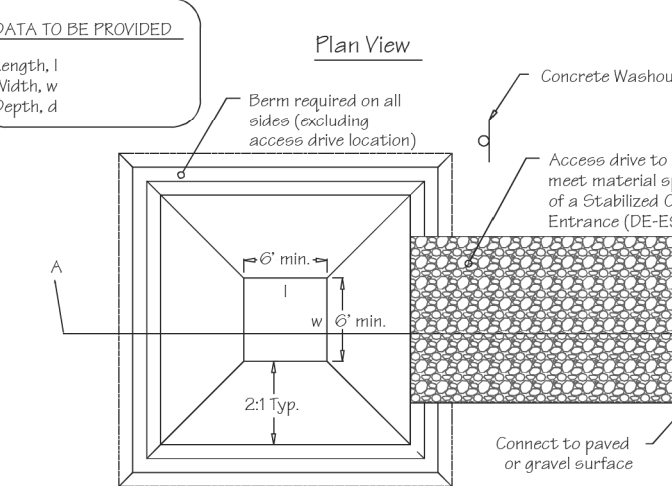
1. Geosynthetic fabric to be fastened securely to fence posts with wire ties or staples.
2. When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
3. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

Materials:

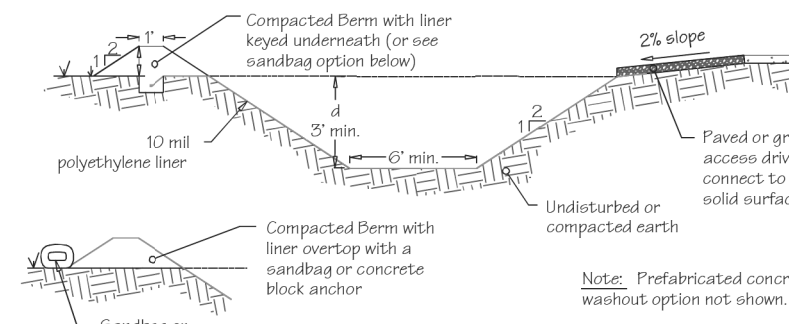
1. **Stakes** - Steel (either T or U) or 2" x 2" hardwood
2. **Geosynthetic Fabric** - Type GD-1
3. **Reinforcing strip** - Wooden lath or plastic strip

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC		DE-ESC-3.1.2.1 Sheet 2 of 2 Effective July 2023

Standard Detail & Specifications
Concrete Washout



Section A-A



Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3		DE-ESC-3.6.2 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Concrete Washout

Construction Notes:

1. Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.
2. Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot wide gravel accessway), but so it is not in a highly active construction area causing accidental damage.
3. Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot high by 1 foot wide compacted fill berm.
4. The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overlap with sandbags or concrete blocks to hold in place.
5. Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.
6. Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.
7. Apply a new liner before reusing the station for additional washouts after maintenance has occurred.

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3		DE-ESC-3.6.2 Sheet 2 of 2 Effective July 2023

TABLE TS.1 TEMPORARY SEEDINGS BY RATES, DEPTHS AND DATES											
Seeding Rate		Planting Depth 2"		Seeding Dates 6"							
Species 3/4	Per Acre	Lbs/1000 (inches)	Sq. Ft.	COASTAL PLAIN				PIEDMONT			
				2/1-4/30	5/1-8/14	8/15-11/30	3/1-4/30	5/1-8/14	8/15-11/30	3/1-4/30	5/1-8/14
Choose one:	2 1/2bu.	2.8	1-2	5/1	..	By 10/15	5/1	..	By 10/15	5/1	..
Barley	2 1/2bu.	2.2	2-2	x	..	..	x	..	..	x	..
Rye	2 1/2bu.	3.2	1-2	x	..	x	x	..	x	x	..
Notes:	40 lbs.	1.0	1/4-1/2	5/1	x	..	By 11/1	5/1	x	..	By 11/1
Notes:	40 lbs.	1.0	1/2	..	x	..	..	x	..	..	..
Notes:	3 lbs.	.1	1/4-1/2	..	x	..	..	x	..	..	..
Notes:	40 lbs.	1.0	1-2	..	x	..	..	x	..	..	..

PERMANENT SEEDING AND SEEDING DATES											
SEEDING MIXTURES		SEEDING RATES		OPTIMUM SEEDING DATES (40)							
Max. No. (if available)	Use certified seed	Lbs/1000 (inches)	Sq. Ft.	COASTAL PLAIN				PIEDMONT			
				2/1-4/30	5/1-8/14	8/15-10/31	3/1-4/30	5/1-8/14	8/15-10/31	3/1-4/30	5/1-8/14
1	Kentucky 31 Tall Fescue	60	1.38	x	..	x	x	..	x	..	x
2	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
3	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
4	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
5	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
6	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
7	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
8	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
9	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
10	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
11	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
12	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
13	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
14	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
15	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..
16	Kentucky 31 Tall Fescue	60	1.38	..	x	..	..	..	x	..	..

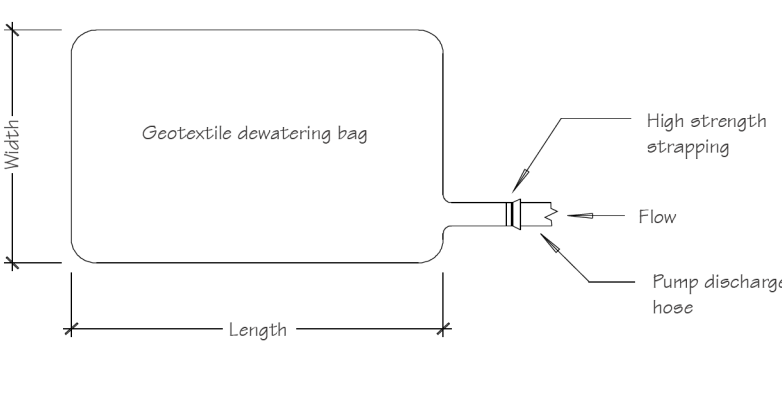
VEGETATIVE STABILIZATION WITH TEMPORARY SEEDING

1. ALL TEMPORARY SEEDING PRACTICES TO BE IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. LIME - APPLY DOLOMITIC LIMESTONE AT A RATE OF 2 TONS PER ACRE.
3. PREFERRED TEMPORARY SEEDING MIXTURE:
A. RYEGRASS - APPLY AT 40 POUNDS PER ACRE
B. WEEPING LOVEGRASS - APPLY AT 3 POUNDS PER ACRE
4. FERTILIZER - APPLY 10-10-10 AT A RATE OF 600 POUNDS PER ACRE
5. MULCHING MATERIALS AND AMOUNTS:
A. STRAW - APPLY AT A RATE OF 2 BALES PER 1,000 SQUARE FEET
B. WOOD CHIPS - APPLY AT A RATE OF 275 POUNDS PER 1,000 S.F.
C. WOOD CELLULOSE FIBER - APPLY AT A RATE OF 35 POUNDS/1,000 SQUARE FEET BY HYDROSEEDING
6. MULCH ANCHORING TOOL - TRACKING AND/OR LIQUID MULCH BINDERS.

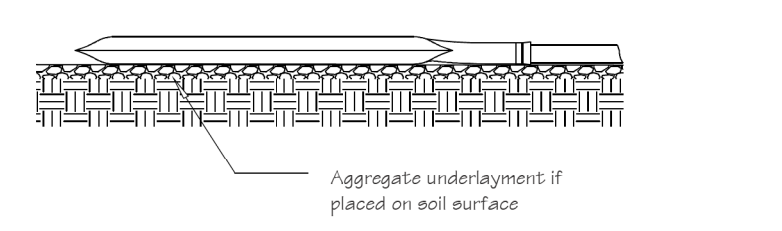
VEGETATIVE STABILIZATION WITH PERMANENT SEEDING

1. ALL PERMANENT SEEDING PRACTICES TO BE IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. LIME - APPLY DOLOMITIC LIMESTONE AT 2 TONS PER ACRE.
3. PREFERRED PERMANENT SEEDING MIXTURES:
A. KENTUCKY 31 TALL FESCUE APPLIED AT 60 POUNDS PER ACRE
B. KENTUCKY BLUEGRASS APPLIED AT 90 POUNDS PER ACRE
4. FERTILIZER - APPLY 10-10-10 AT A RATE OF 1,000 POUNDS PER ACRE WORKED INTO THE TOP 4-6 INCHES OF SOIL
5. MULCHING MATERIALS AND AMOUNTS:
A. STRAW - APPLY AT A RATE OF 2 BALES PER 1,000 SQUARE FEET
B. WOOD CHIPS - APPLY AT A RATE OF 275 POUNDS PER 1,000 S.F.
C. WOOD CELLULOSE FIBER - APPLY AT A RATE OF 35 POUNDS/1,000 SQUARE FEET BY HYDROSEEDING
6. MULCH ANCHORING TOOL - TRACKING AND/OR LIQUID MULCH BINDERS.
7. IRRIGATION - APPLY ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH
8. MAINTENANCE - RE-ESTABLISH FAILED AREAS AS SOON AS POSSIBLE. INSPECT, IRRIGATE, AND RE-FERTILIZE FOR ONE YEAR

Standard Detail & Specifications
Geotextile Dewatering Bag



Plan



Profile

NOTE: Pre-manufactured products installed in accordance with manufacturer's recommendations may be used as an equivalent substitute with Departmental approval.

Source:	Symbol:	Detail No.
Adapted from ACF Products, Inc.		DE-ESC-3.2.1.2 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Geotextile Dewatering Bag

Construction Notes:

1. The dewatering bag should be placed so the incoming water flows into and through the bag, and then flow off the site without creating more erosion. The neck should be tied off tightly to stop the water from flowing out of the bag without going through the walls. The dewatering bag should be placed on a gravel bed to allow water to flow in all directions.
2. The dewatering bag is considered full and should be disposed when it is impractical for the bag to filter the sediment out at a reasonable flow rate. At this point, it should be replaced with a new bag.
3. Disposal may be accomplished as directed by the construction reviewer. If the site allows, the bag may be buried on site and seeded, visible fabric removed and seeded or removed from site to a proper disposal area.

Materials:

1. The geotextile fabric shall be a Type GD-IV.
2. The dewatering bag shall be sewn with a double needle machine using high strength thread. All structural seams will be sewn with high strength, double stitched "J" type. Seam strength test will have the following minimum average roll values:

Type	TEST METHOD	TEST RESULT
Heavy duty	ASTM D-4984	100 lb / in
3. The dewatering bag shall have an opening large enough to accommodate a four (4) inch discharge hose with attached strap to tie off the hose to prevent the pumped water from escaping from the bag without being filtered.

Source:	Symbol:	Detail No.
Adapted from ACF Products, Inc.		DE-ESC-3.2.1.2 Sheet 2 of 2 Effective July 2023

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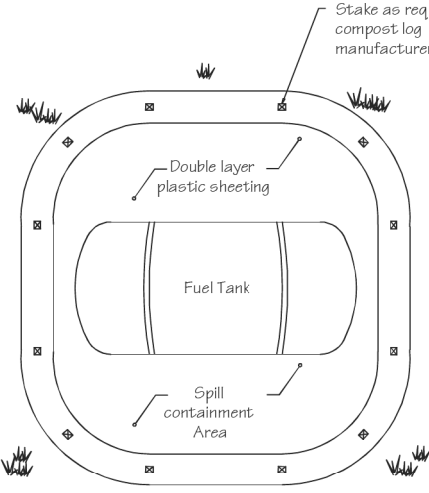
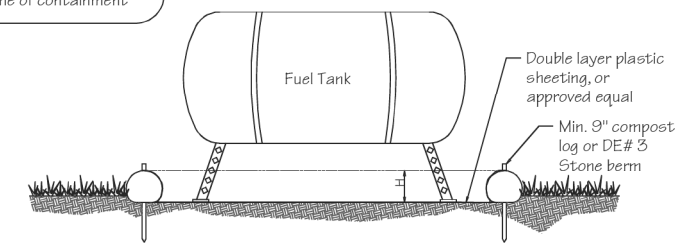
SEDIMENT & EROSION
CONTROL DETAILS
NEW HARVEST
BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

DATE: 01/03/25 | NOT TO SCALE | SHT: KCD-3

Standard Detail & Specifications
Fueling & Spill Control

DATA TO BE PROVIDED:
Volume of Potential Pollution
Height of containment
Area of containment
Volume of containment



NOTE: Double-walled tanks with proper labeling meet EPA requirements for secondary containment.

Source: Delaware ESC Handbook
Symbol:
Detail No. DE-ESC-3.6.4
Sheet 1 of 2
Effective July 2023

Standard Detail & Specifications
Fueling & Spill Control

Pollution Prevention - Fueling & Spill Control

1. Fueling should only take place in signed designated areas, away from downstream drainage facilities and watercourses.
2. Fueling must be with nozzles equipped with automatic shut-off to control drips. Do not top off.
3. Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked from storm water run-on and runoff.
4. Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.
5. Place a "Fueling Area" sign next to each fueling area.
6. Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.
7. Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks immediately.
8. Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel trucks.
9. If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.
10. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.

CLEAN UP SPILLS

1. If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material spills.
 2. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.
 3. Do not bury spills or wash them down with water.
- LEAKS AND DRIPS
1. Use drip pans or absorbent pads at all times. Place under and around leaky equipment.
 2. Do not allow oil, grease, fuel or chemicals to drip onto the ground.
 3. Have spill kits and clean up material on-site.
 4. Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.
 5. Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.
 6. Clean up all spills and leaks. Promptly dispose of waste and spent clean up materials.

Source: Delaware ESC Handbook
Symbol:
Detail No. DE-ESC-3.6.4
Sheet 2 of 2
Effective July 2023

Standard Detail & Specifications
Construction Site Pollution Prevention

Delaware NPDES Discharge Permit
General Permit for Discharge of Stormwater from Construction Activities

((Project Name))
((NOI Permit Number))
((Agency Plan Approval ID))
((Contact Name & Number for Additional Site Information))
((Contact Name & Number to Obtain Copy of Approved Plan))

If you observe indicators of stormwater pollutants in the discharge or in the receiving waterbody, call the DNREC Spill Notification 24 HR Hotline at

1-800-662-8802

Example Construction General Permit (CGP) Signature

NOTES:

1. Minimum sign size 2' x 2'
2. Minimum text size 1"
3. Signs must be posted at a safe, publicly accessible location close to construction site
4. Signs must be visible from the public road nearest the active construction site
5. Signs posted within a DelDOT or other public road right-of-way (ROW) must be in accordance with all local and/or State requirements in regards to safety, location, orientation, etc.

Source: Delaware ESC Handbook
Symbol:
Detail No. DE-ESC-3.6.1
Sheet 1 of 4
Effective July 2023

Standard Detail & Specifications
Construction Site Pollution Prevention

Notes:

The Construction Site Pollution Prevention Plan includes the following elements:

1. Material Inventory

Document the storage and use of the following materials:

- a. Concrete
- b. Detergents
- c. Paints (enamel and latex)
- d. Cleaning solvents
- e. Pesticides
- f. Fertilizers
- g. Petroleum based products

2. Good housekeeping practices

- a. Store only enough product required to do the job.
- b. Store all materials in a neat, orderly manner in their original labeled containers and covered.
- c. Do not mix different substances.
- d. When possible, use all of a product prior to disposal of the container.
- e. Manufacturers' instructions for disposal should be strictly adhered to.
- f. Designate someone to inspect all BMPs daily.

3. Waste management practices

- a. Collect and store all waste materials in securely lidded dumpsters in a location that does not drain to a waterbody.
- b. Salvage and/or recycle waste materials whenever possible.
- c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol:
Detail No. DE-ESC-3.6.1
Sheet 2 of 4
Effective July 2023

Standard Detail & Specifications
Construction Site Pollution Prevention

Notes (cont.)

- d. Dispose of all trash in accordance with all applicable Delaware laws.
 - e. Littering is strictly prohibited. Trash cans should be placed at all lunch spots and recycle bins should be placed near the construction trailer.
 - f. If fertilizer bags can not be stored in a weather-proof location, they should be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.
4. Equipment maintenance practices
- a. If possible, equipment should be taken to off-site commercial facilities for washing and maintenance.
 - b. If performed on-site, wash vehicles with high-pressure water spray without detergents in an area contained by an impervious berm.
 - c. Use drip pans for all equipment maintenance.
 - d. Inspect equipment for leaks on a daily basis.
 - e. Direct washout from concrete trucks into a temporary pit for hardening and proper disposal.
 - f. Equip fuel nozzles with automatic shut-off valves.
 - g. Dispose of all used products such as oil, antifreeze, solvents and tires in accordance with manufacturers' recommendations and local, state and federal laws and regulations.
5. Spill prevention practices
- a. Identify potential spill areas and contain them in covered areas with no connection to the storm drain system.
 - b. Post warning signs in hazardous material storage areas.
 - c. Perform preventive maintenance on all tanks, valves, pumps, pipes and other equipment as necessary.
 - d. Prioritize low or non-toxic substances for use.

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol:
Detail No. DE-ESC-3.6.1
Sheet 3 of 4
Effective July 2023

Standard Detail & Specifications
Construction Site Pollution Prevention

Notes (cont.)

- e. Prominently post contact information for reporting spills through the DNREC 24-Hour Toll Free Number.
6. Education
- a. Include Best Management Practices (BMPs) for construction site pollution control as part of regular progress meetings.
 - b. Information regarding waste management, equipment maintenance and spill prevention should be prominently posted in the construction trailer.

CONTACT INFORMATION

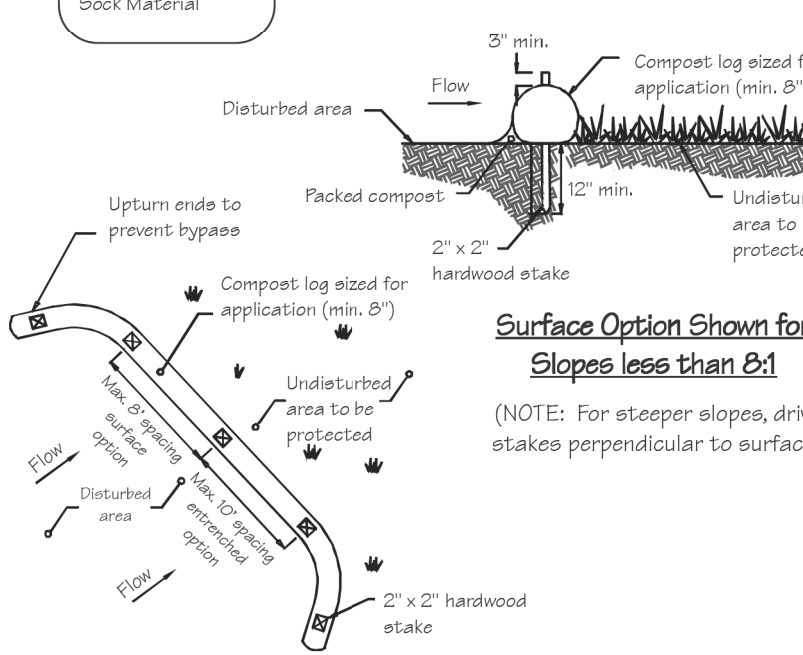
DNREC 24-Hour Toll Free Number 800-662-8802
DNREC Solid & Hazardous Waste Management Section 302-739-9403

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol:
Detail No. DE-ESC-3.6.1
Sheet 4 of 4
Effective July 2023

Standard Detail & Specifications
Compost Filter Log

DATA

Log diameter (D)
Sock Material



Surface Option Shown for Slopes less than 8:1
(NOTE: For steeper slopes, drive stakes perpendicular to surface)

NOTE: Manufacturer's recommendations supersede any installation details shown for this practice

Source: Adapted from MD Stds & Specs for ESC & Filtrix™ International
Symbol:
Detail No. DE-ESC-3.1.7
Sheet 1 of 2
Effective July 2023

Standard Detail & Specifications
Compost Filter Log

Construction Notes:

1. Prior to installation, clear bedding area of obstructions including rocks or debris larger than 1 inch and fill in any sharp depression areas.
2. If socks are prepared on-site, fill the sock fabric using a pneumatic blower so that the logs are rigid and do not deform. Terminate at the desired length.
3. For trenched applications, excavate 2 to 4 inches below grade along the width and length of the compost filter log.
4. Install the compost filter logs perpendicular to the flow direction and parallel to the slope with the beginning and end of the installation pointing up the slope a minimum of 1 foot elevation difference. On sites where this is not possible, upturn at a minimum length of 10' at a 30 degree angle to prevent runoff bypass.
5. For untrenched applications, blow or hand pack soil, mulch, or compost on the upslope side of the log, filling the bottom void area.
6. Stake the filled log every 10 feet maximum through the center of the sock for trenched applications, or every 8 feet for untrenched. The stake shall be a 2" by 2" hardwood. It should extend 12" below grade and protrude at least 3" above the top of the sock. If located on a slope greater than 8:1, the stake shall be angled downslope at a 45 degree angle to prevent the force of the water from dislodging to log.
7. When the length of the compost filter log needed exceeds the available compost filter sock length, the next sock shall be overlapped a minimum of 12" before being filled, and a stake placed through both socks at the overlap.
8. Remove accumulated sediment when it has reached half of the effective height of the log.
9. Inspect weekly and after rain event. If sock is degrading or the sock is failing, vegetate to secure the compost, replace the log, or reinforce with an additional log. If the log has been crushed due to construction equipment, it can be "fluffed" back to its effective height. If the effective height can no longer be restored, the log shall be replaced or reinforced with an additional compost filter log.

Source: Adapted from MD Stds & Specs for ESC & Filtrix™ International
Symbol:
Detail No. DE-ESC-3.1.7
Sheet 2 of 2
Effective July 2023

Standard Detail & Specifications
Topsoiling

Construction Notes:

1. Site Preparation (Where Topsoil is to be added)

Note: When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins.

- a. Grading - Grades on the areas to be topsoiled which have been previously established shall be maintained.
- b. Liming - Where the topsoil is either highly acid or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- c. Tilling - After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or by scarifying to a depth of at least 3 inches to permit bonding of the topsoil to the subsoil. Pack by passing a bulldozer up and down over the entire surface area of the slope to create horizontal erosion check slots to prevent topsoil from sliding down the slope.

2. Topsoil Material and Application

Note: Topsoil salvaged from the existing site may often be used but it should meet the same standards as set forth in these specifications. The depth of topsoil to be salvaged shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Delaware Agricultural Experimental Station.

Source: USDA - NRCS
Symbol:
Detail No. DE-ESC-3.4.1
Sheet 1 of 2
Effective July 2023

Standard Detail & Specifications
Topsoiling

Construction Notes (cont.)

- a. Materials - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by an agronomist or soil scientist. It shall not have a mixture of contrasting textured subsoil and contain no more than 5 percent by volume of cinders, stones, slag, coarse fragment, gravel, shales, rocks, trash or other extraneous materials larger than 1 1/2 inches in diameter. Topsoil must be free of plants or plant parts of bermudagrass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistles, or others as specified. All topsoil shall be tested by a reputable laboratory for organic matter content, pH and soluble salts. A pH of 5.0 to 7.5 and an organic content of not less than 1.5 percent by weight is required. If pH value is less than 5.0 lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoil containing soluble salts greater than 500 parts per million shall not be used.

Note: No sod or seed shall be placed on soil which has been treated with soil sterilant or chemicals used for weed control until sufficient time has elapsed to permit dissipation of toxic materials.

- b. Grading - The topsoil shall be uniformly distributed and compacted to a minimum of four (4) inches. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets. Topsoil shall not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

Note: Topsoil substitutes or amendments as approved by a qualified agronomist or soil scientist, may be used in lieu of natural topsoil. Compost material used to improve the percentage of organic matter shall be provided by a certified supplier.

Compost amendments that are intended to meet specific post-construction stormwater management goals shall further meet the requirements of Appendix 3.06.2 Post Construction Stormwater Management BMP Standards and Specifications, Section 14.0 Soil Amendments.

Source: USDA - NRCS
Symbol:
Detail No. DE-ESC-3.4.1
Sheet 2 of 2
Effective July 2023



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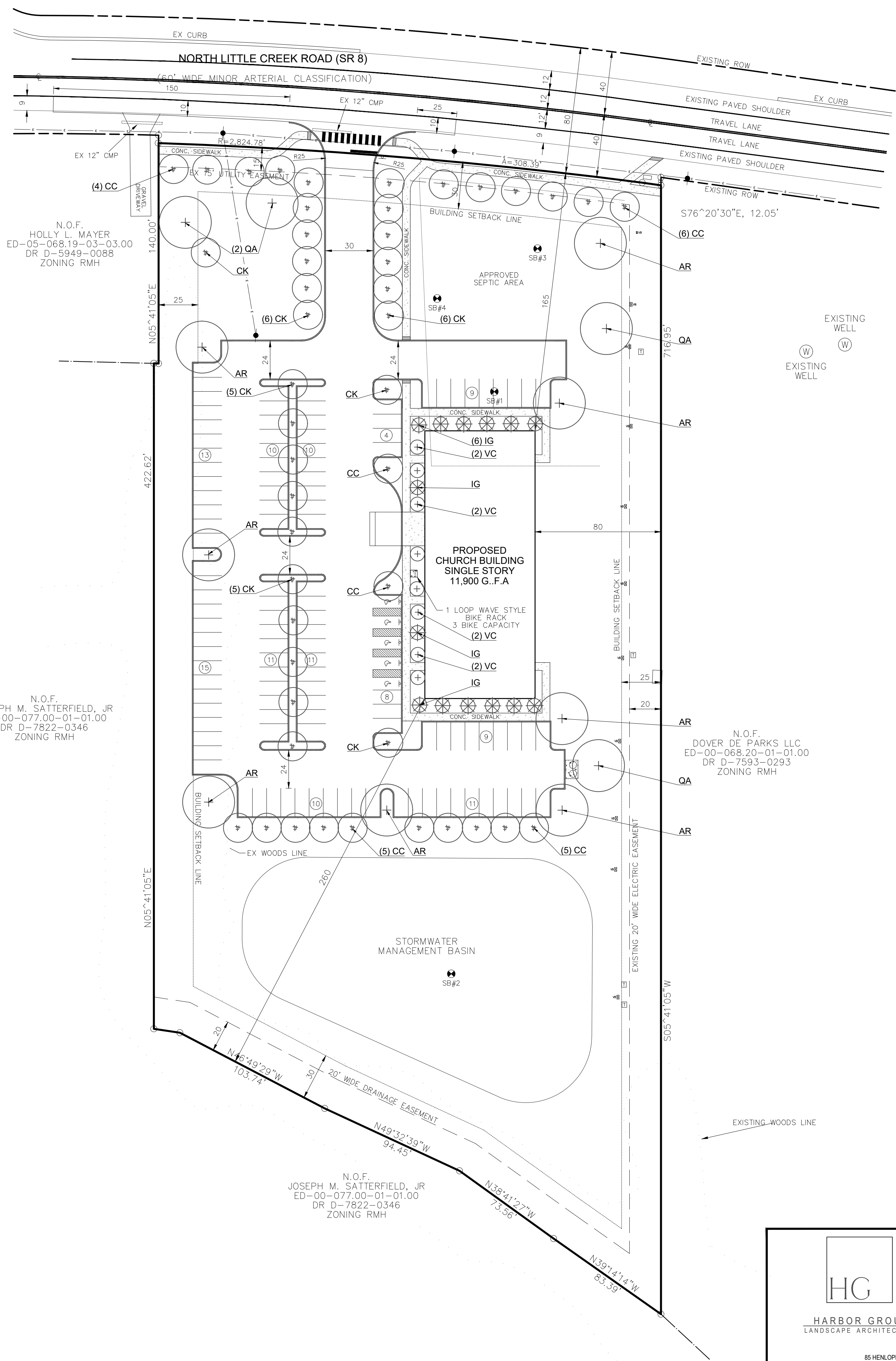
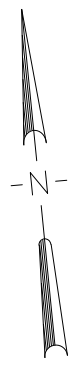
PROJECT NO: 19-068
DGN FILE: 19-068

SEDIMENT & EROSION
CONTROL DETAILS

NEW HARVEST
BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

DATE: 01/03/25
NOT TO SCALE
SHT: KCD-4



N.O.F.
HOLLY L. MAYER
ED-05-068.19-03-03.00
DR D-5949-0088
ZONING RMH

N.O.F.
JOSEPH M. SATTERFIELD, JR
ED-00-077.00-01-01.00
DR D-7822-0346
ZONING RMH

N.O.F.
DOVER DE PARKS LLC
ED-00-068.20-01-01.00
DR D-7593-0293
ZONING RMH

N.O.F.
JOSEPH M. SATTERFIELD, JR
ED-00-077.00-01-01.00
DR D-7822-0346
ZONING RMH

LEGEND

PROPERTY BOUNDARY	_____
RIGHT-OF-WAY LINE	_____
LOT LINE	_____
BUILDING SETBACK LINE	_____
EXISTING CONTOUR	26
PROPOSED CONTOUR	(26)
EXISTING STORM DRAIN	=====
PROPOSED STORM DRAIN	=====
EXISTING SANITARY SEWER	-----S
PROPOSED SANITARY SEWER	-----S
EXISTING WATER LINE	-----W
PROPOSED WATER LINE	-----W
EXISTING UTILITY POLE	●
EXISTING ROAD SIGN	26X27
EXISTING SPOT ELEVATION	(26X27)
PROPOSED SPOT ELEVATION	(26X27)

LANDSCAPE REQUIREMENTS

Woodland Preservation & Tree Density

Tree Density Required = 1 Tree / 3,000 sf. of Non-Woodland Area

Woodland Preservation Required = 50% of existing Woodlands

Total Woodlands = 32,575 sf

Woodland Area to be Preserved = 27,419 SF(84.2%)

Total Tree Density Area = 203,252 SF - 27,419 SF = 175,833 SF

Trees required = 5175,833 SF / 3,000 SF = 58.6 Trees

59 Tree Density Trees required

59 Tree Density Trees Provided

PARKING LOT REQUIREMENTS

Minimum 5% interior landscape area:

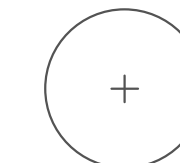
Parking lot area = 48,900 SF

5% Requirement = 2,445 SF

Landscape Area Provided = 2,920 sf

LANDSCAPE LEGEND

CANOPY TREE



FLOWERING TREE



EVERGREEN SHRUB



DECIDUOUS SHRUB



LANDSCAPE SCHEDULE

KEY	BOTANIC NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
AR	Acer rubrum 'October Glory'	October Glory Red Maple	8	2" Cal.	B&B Full Heavy Vigorous
CC	Cornus canadensis	Redbud	22	2" Cal.	B&B Full Heavy Vigorous
CK	Cornus kousa	Kousa Dogwood	25	2" Cal.	B&B Full Heavy Vigorous
IG	Ilex glabra 'Compacta'	Compact Ink Berry Holly	13	2-2.5"	B&B Full Heavy Vigorous
QA	Quercus alba	White Oak	4	2" Cal.	B&B Full Heavy Vigorous
VC	Viburnum carlesii	Korean Spice Viburnum	8	2-2.5"	B&B Full Heavy Vigorous

NOTE: In the event that there is a discrepancy between the quantity of plant material on the Plan Drawing and the quantity in the Plant List, the quantity of plant material on the plan drawing shall govern.

LANDSCAPE ARCHITECT CERTIFICATION

I, CONWAY J. BRISTOW III, HEREBY CERTIFY THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

01.31.2025

CONWAY J. BRISTOW III, PLA #10600

DATE



HARBOR GROUP
LANDSCAPE ARCHITECTURE

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REVISIONS:

PROJECT NO: 19-068 | DGN FILE: 19-068

CONDITIONAL USE SITE PLAN
NEW HARVEST
BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

0 20 40 80

DATE: 01/31/25

SCALE: 1" = 40'

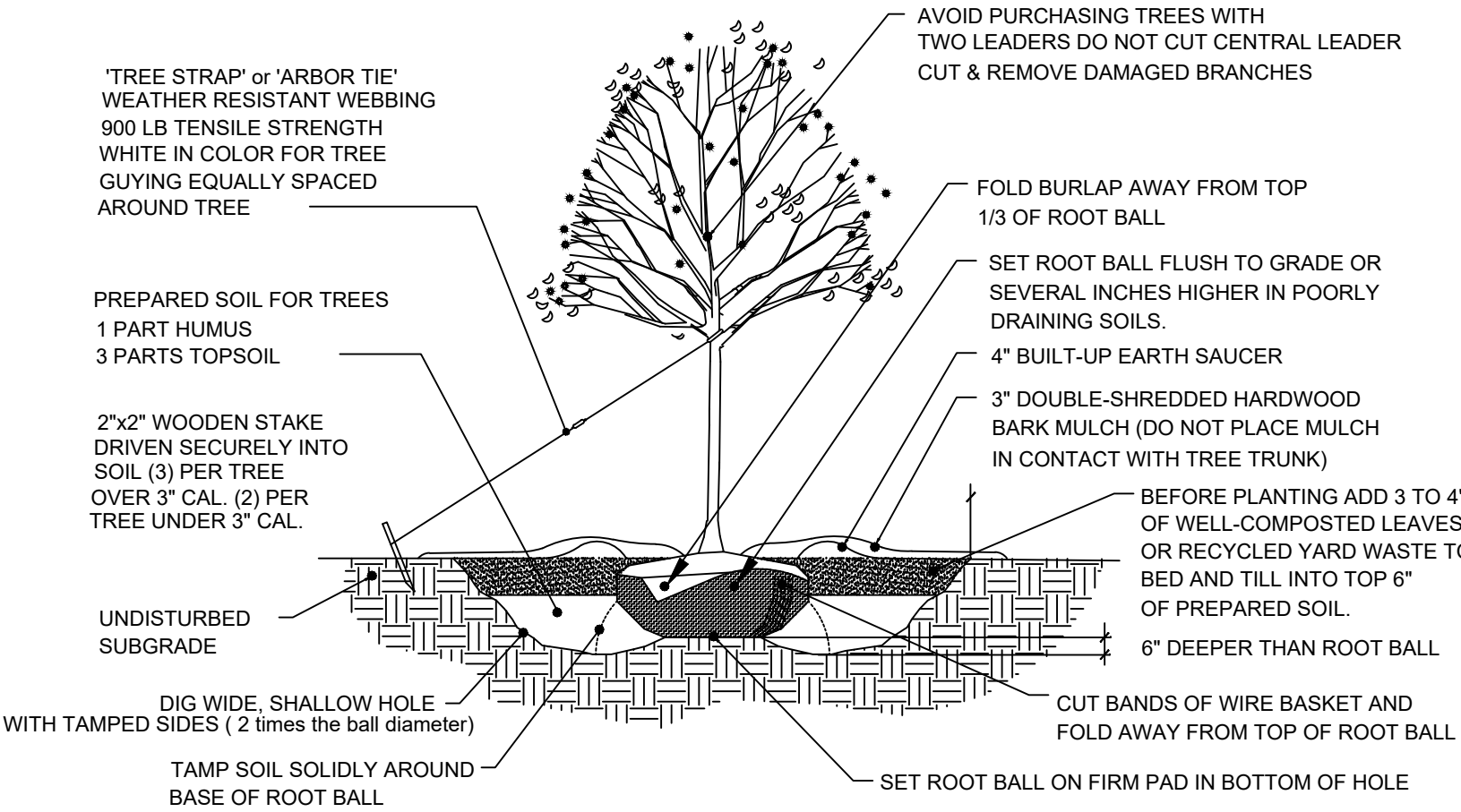
SHT: SP-1

PLANT QUALITY

1. PLANT NAMES INDICATED COMPLY WITH STANDARDIZED PLANT NAMES AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. PROVIDE STOCK TRUE TO BOTANICAL NAME LEGIBLY TAGGED.
2. ALL PLANT MATERIALS SHALL BE OF 'SPECIMEN' QUALITY, HAVE DENSELY DEVELOPED BRANCHES, FRESHLY DUG WITH VIGOROUS, FIBROUS ROOT SYSTEM. PLANTS SHALL BE HEALTHY, FREE FROM DISEASE, ALL FORMS OF INSECT INFESTATIONS OR OTHER PHYSICAL DEFORMITIES. ALL PLANTS SHALL CONFORM TO GRADING AND SIZING STANDARDS OF THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK. STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED WITH 25% AS THE MINIMUM AND 75% AS THE MAXIMUM SIZE INDICATED.
3. OWNER, DEVELOPER OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIALS DUE TO POOR QUALITY, SIZE OR IMPROPER HANDLING. ALL REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIALS AT NO ADDITIONAL COST.
4. ALL PLANT MATERIALS SHALL BE COVERED DURING TRANSPORT TO PREVENT WIND BURNING. ALL PLANTS SHALL BE PLANTED IMMEDIATELY UPON DELIVERY OR 'HEEL' IN IN A MANNER ACCEPTABLE TO THE LANDSCAPE ARCHITECT. HANDLE ALL PLANTS BY THE ROOT SYSTEM.
5. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO STARTING INSTALLATION FOR INSPECTIONS OF PLANT LOCATIONS, QUANTITIES, QUALITY AND SIZE AND UPON COMPLETION FOR FINAL INSPECTION OF PLANTING, MULCHING, STAKING AND CLEAN UP.

PLANTING IMPLEMENTATION

1. PLANTING PITS - EXCAVATED CIRCULAR PITS WITH VERTICAL SIDES. PROVIDE SHRUB PITS 24" GREATER THAN THE DIAMETER OF THE ROOT SYSTEM AND 48" GREATER FOR TREES. (DEPTH OF PIT TO ACCOMMODATE ROOT SYSTEM) SCARIFY THE BOTTOM OF THE PIT TO A DEPTH OF 4" BELOW DEPTH OF BALL.
2. PLANTING MIX: PROVIDE WEED AND SEED FREE HUMUS OR PEAT MOSS. MIX ONE (1) PART HUMUS TO FOUR (4) PARTS EXISTING TOP SOIL. MIX THOROUGHLY WITH A 12-12-12 FERTILIZER ACCORDING TO THE MANUFACTURER'S DIRECTIONS.
3. SET PLANTS: PLACE IN PIT TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT, PLUMB AND FACED TO GIVE THEIR BEST APPEARANCE. SET PLANTS WITH BALL 2" TO 3" ABOVE FINISHED GRADE. DO NOT FILL OVER BALL. STEMS, OR TRUNK, BACKFILL AND TAMP PLANTING MIX IN 4" LAYERS. CUT AND REMOVE TOP 1/3 OF BURLAP. ALL LACING, ROPES, WIRES, STRINGS OR WIRE BASKETS. FORM A SOIL RING AROUND BALL ABOVE FINISHED GRADE. THOROUGHLY WATER IN PLANTING MIX TO FILL ALL VOIDS AND FILL RIM OF PIT.
4. MULCH: MULCH ALL PLANTS WITH 3" OF AN APPROVED MULCH WITHIN 48 HOURS AFTER PLANTING. APPLY AN APPROVED PRE-EMERGENT WEED CONTROL ACCORDING TO MANUFACTURER'S DIRECTIONS IN ALL PLANTING BEDS PRIOR TO MULCHING.
5. STAKING: ALL TREES SHALL BE STAKED. TREES UNDER 3" IN CALIPER SHALL HAVE 2 STAKES. TREES OVER 3" IN CALIPER SHALL HAVE 3 STAKES. STAKES SHALL BE EVENLY SPACED AND DRIVEN FIRMLY INTO UNDISTURBED SUBSOIL. PLACE STAKES PARALLEL TO WALKS, ROADS AND BUILDINGS.
6. PRUNING: PRESERVE NATURAL SHAPE OF PLANT. DO NOT CUT THE CENTRAL LEADER OF TREES. REMOVE OR CUT BACK DAMAGED OR UNSYMMETRICAL GROWTH.
7. ANTI-DISICANT: APPLY 'WILT PROOF' OR EQUIVALENT TO ALL PLANTS. APPLY OVER ALL PLANT LEAVES OR NEEDLE AREAS ACCORDING TO MANUFACTURE'S DIRECTIONS.
8. GROUNDCOVER AND PERENNIAL BEDS: STRIP EXISTING LAWN OR WEEDS. SPREAD A 1" LAYER OF PEAT MOSS OR APPROVED HUMUS ON ENTIRE AREA. APPLY 8-18-10 FERTILIZER ACCORDING TO MANUFACTURER'S DIRECTIONS. ROTO-TILL ENTIRE AREA TO A DEPTH OF 6" FINE GRADE BED. APPLY APPROVED PRE-EMERGENT WEED CONTROL ACCORDING TO MANUFACTURER'S DIRECTIONS. MULCH ENTIRE AREA WITH 2" MULCH AS SPECIFIED. PLANT GROUNDCOVERS AND PERENNIALS THROUGH MULCH INTO SOIL AND WATER.
9. TOPSOIL SHALL BE SANDY LOAM. IT SHALL NOT HAVE A MIXTURE OF SUBSOIL AND SHALL NOT CONTAIN CINDERS, STONES, LUMPS, STICKS, ROOTS OR OTHER EXTRANEIOUS MATTER LARGER THAN 1/2" DIAMETER. TOPSOIL MUST BE FREE OF WIREGRASS, QUACKGRASS, NUTSEDGE, POISON IVY, OR CANADA THISTLE. TOPSOIL SHALL HAVE A pH OF 5.5 - 7.5 AND NOT HAVE SOLUBLE SALTS HIGHER THAN 500 PARTS PER MILLION. PROVIDE CERTIFICATION FROM A RECOGNIZED LABORATORY.
10. ALL PLANT MATERIALS FURNISHED BY THE LANDSCAPE CONTRACTOR FOR THIS CONTRACT SHALL BE GUARANTEED FOR 100 % OF THE COST OF REPLACEMENT (MATERIALS AND LABOR), TO LIVE AND REMAIN IN A HEALTHY, VIGOROUS CONDITION, FOR A PERIOD OF (1) YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER AND DEVELOPER. ANY PLANTS THAT REMAIN UNHEALTHY OR HAVE LOST THEIR SHAPE DUE TO DEAD BRANCHES OR OTHERWISE ARE UNACCEPTABLE IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHALL BE REMOVED AND REPLACED AT NOT ADDITIONAL COST TO THE OWNER OR DEVELOPER. GUARANTEE SHALL NOT INCLUDE DAMAGE OR LOSS OF PLANTS, MATERIALS, ET, CAUSED BY FIRE, FLOODS, FREEZING RAINS, LIGHTING STORMS OR WINDS (OVER 75 MPH). ACTS OF VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER OR DEVELOPER. REMOVE ALL STAKES AND GUYS FROM PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. REPLACEMENT PLANTS SHALL BE GUARNTIED FOR AN ADDITIONAL YEAR AFTER INSTALLATION.
11. MAINTAIN PLANTINGS & SEED AND/OR SOD UNTIL COMPLETION AND ACCEPTANCE BY OWNER OF ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE MOWING, PRUNING, CULTIVATION, WEEDING, WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES & FUNGICIDES AS NECESSARY TO MAINTAIN PLANTS & SEEDING/SODDING FROM INSECTS & DISEASE.
12. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO DELIVER TO THE OWNER OR DEVELOPER A COMPLETE RELEASE OF LIENS THAT MAY ARISE OUT OF THIS CONTRACT OR RECEIPTS PAID IN FULL IN LIEU THEREOF.

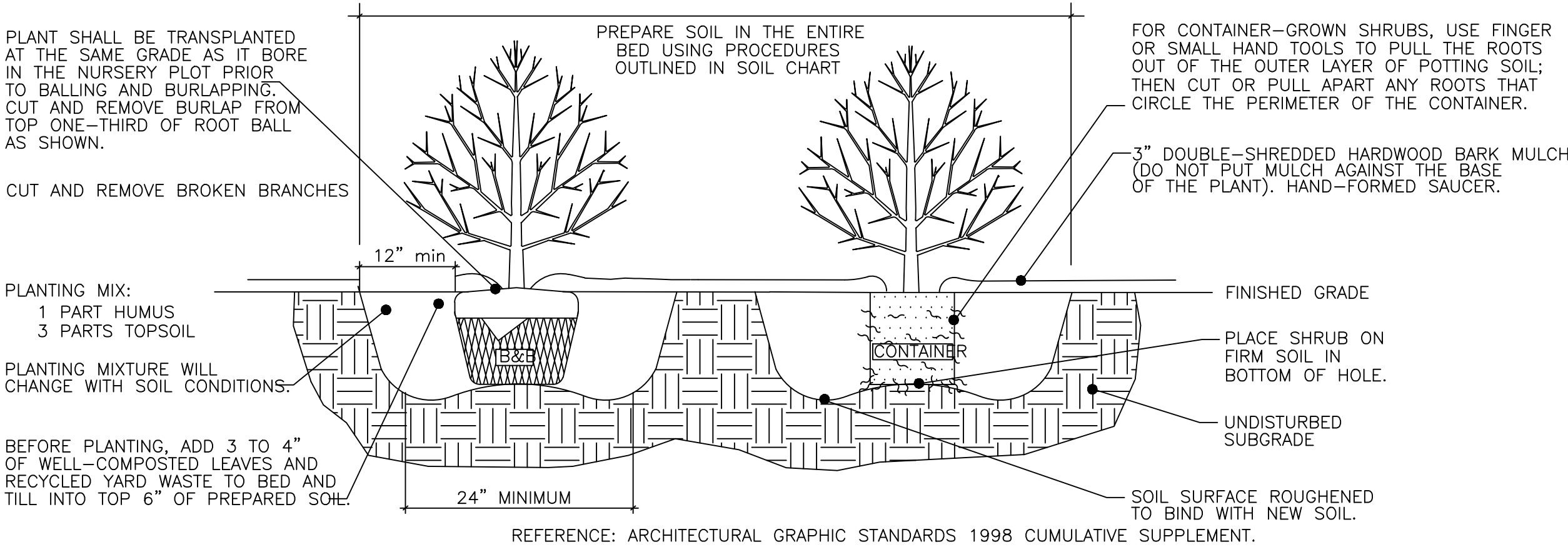


NOTES:

1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK 1/3 FROM ROOT BALL
3. PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
4. THOUROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE SUBSOIL.

TYPICAL DETAIL: TREE PLANTING

NOT TO SCALE



REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

NOTE:

Apply approved pre-emergent weed control on all shrub beds prior to mulching.

SHRUB PLANTING DETAIL

NOT TO SCALE

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PLANTING DETAILS
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BAPTIST CHURCH

SITUATE IN: CITY OF DOVER - KENT COUNTY, DELAWARE

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SHT: LS-2