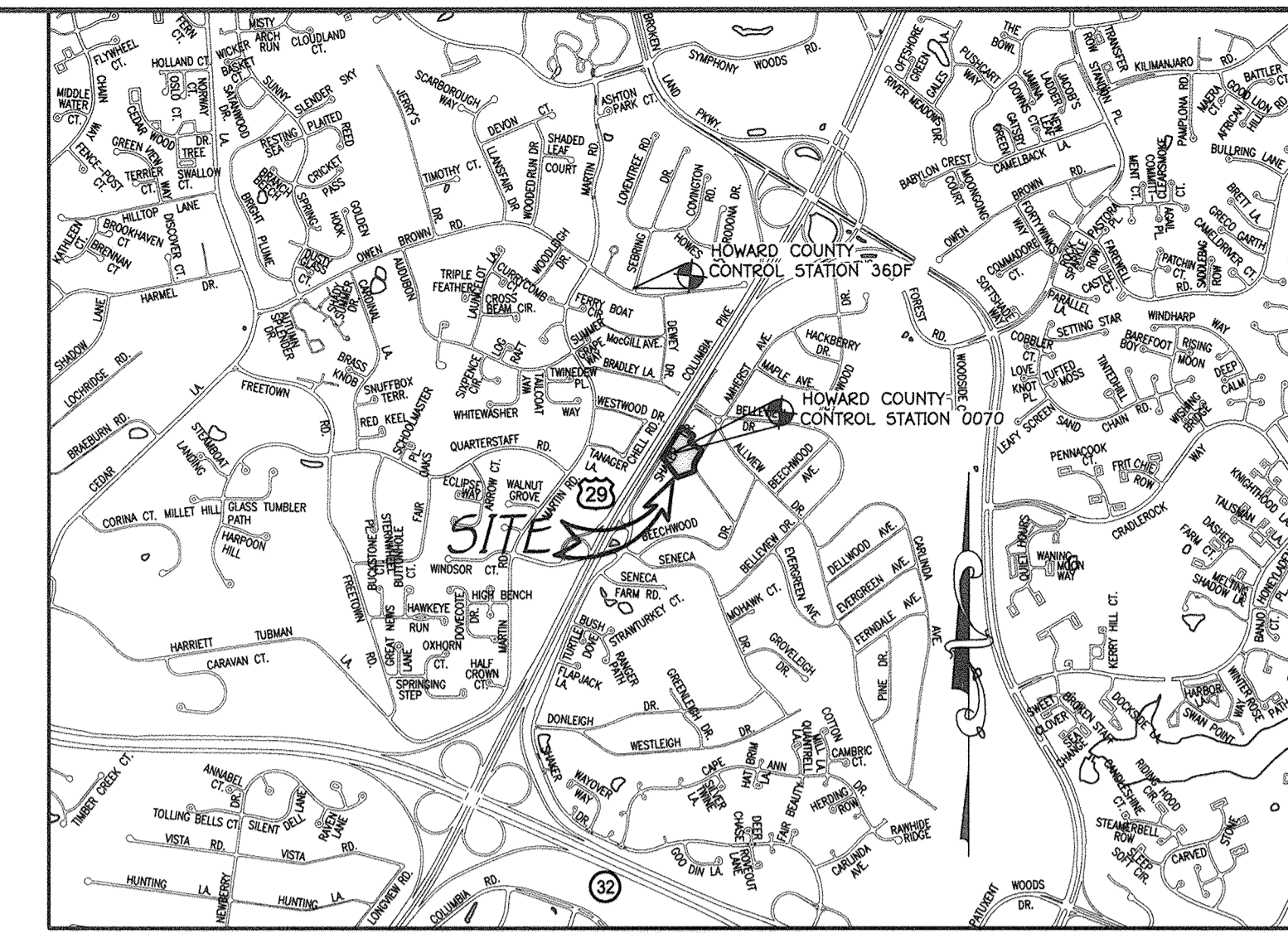


SHEET INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	DEMOLITION PLAN
3	SITE DEVELOPMENT PLAN
4	GEOMETRY PLAN
5	SEDIMENT AND EROSION CONTROL PLAN
6	SOILS AND DRAINAGE AREA MAP
7	DETAIL SHEET
8	HANDICAP ACCESS PLAN, BUILDING ELEVATION AND SEDIMENT CONTROL DETAILS
9	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
10	TRAFFIC MAINTENANCE PLAN AND BOILING LOGS
11	STORM DRAIN PROFILE AND STRUCTURE SCHEDULE
12	LANDSCAPE PLAN
13	LANDSCAPE NOTES, DETAILS AND SCHEDULE
14	BMP #1 PROFILES
15	STORMWATER MANAGEMENT BMP DETAILS & BMP #2 PROFILE
16	PLANTING PLAN BMP'S #1 - #2
17	STORMWATER MANAGEMENT SPECIFICATIONS & NOTES
18	SEDIMENT AND EROSION CONTROL DRAINAGE AREA MAP
19	PHOTOMETRICS PLAN

LEGEND	
SYMBOL	DESCRIPTION
---402---	EXISTING CONTOUR 2' INTERVAL
---400---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING GAS LINE
X	EXISTING FENCE
402	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
+ 409.75	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREETRAN
---	PROPOSED TREETRAN
L.O.D.	LIMIT OF DISTURBANCE
---	PROPOSED STORMDRAIN
---	DRAINAGE AREA LINE
SSF	SUPER SILT FENCE
---	AREA TO BE DEMOLISHED
TP	TREE PROTECTION
---	EXISTING MACADAM PAVING
---	EXISTING CONCRETE WALK
---	BUILDING RESTRICTION LINE

SITE DEVELOPMENT PLAN CHRIST MEMORIAL PRESBYTERIAN CHURCH

TAX MAP No.: 36, GRID No: 13, PARCEL No.: 237
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND



SITE ANALYSIS DATA

- Area Tabulation:
 - A. Total project area: 3.99 Ac. (On-site 3.73 Ac., Off-site SWM 0.26 Ac.)
 - B. Total area of R/W dedication: 0 Ac.*
 - C. Total area of site: 3.73 Ac.*
 - D. Limit of Disturbance: 3.66 Ac.*
 - E. Lot coverage: 0.39 Ac. ± (10%)
 - F. Total area of wetlands: 0 Ac.*
 - G. Total area of wetlands buffer: 0 Ac.*
 - H. Total area of floodplain: 0 Ac.*
 - I. Total area of floodplain buffers: 0 Ac.*
 - J. Total area of forest: 0.00 Ac.*
 - K. Total area of slopes 15%-25%: 0.00 Ac. (0 SF)
 - L. Total area of slopes 25% and greater: 0.00 Ac. (0 SF)
 - M. There are no erodible soils on this site.
 - N. Existing use: Religious Facility
 - O. Proposed use: A new 2 story multi-purpose addition (Religious and Preschool Facility)
 - P. Zoned: R-20
 - Q. Local community: Simpsonville
 - R. Building height: 25'-0"
 - S. Proposed 2 story addition:
 - First floor 4585 SF
 - Second floor 5430 SF
- T. Ex. and Prop. floor area:
 - First floor 15,014 SF
 - Second floor 17,999 SF
 - Total 32,999 SF

FOREST CONSERVATION WORKSHEET

Version 1.0

- Parking spaces required:
 - A. 10 spaces per 1,000 SF in the Assembly Area, 3 spaces per 1000 SF in the Preschool Area.
 - Assembly Area = 8,500 SF, Preschool Area = 5,125 SF
 - 8,500 SF @ 10/1,000 = 85 spaces, 5,125 SF @ 3/1000 = 16 spaces
 - B. Existing parking spaces = 153
 - C. Proposed parking spaces = 151 spaces (Including 8 handicapped spaces)
 - Front lot = 20 spaces
 - Rear lot = 131 spaces

NET TRACT AREA		Acres
A. Total tract area (on-site 3.73 ac. + off-site 0.26 ac.)		3.99
B. Area within 100 Year Floodplain		
C. Area of existing impervious surface		1.7
D. Net Tract Area		2.29

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)		
ARA	MDR	IDA HDR MPD CIA
R-20		
E. Afforestation Threshold (percentage)	15	0.34
F. Conservation Threshold (percentage)	20	0.46

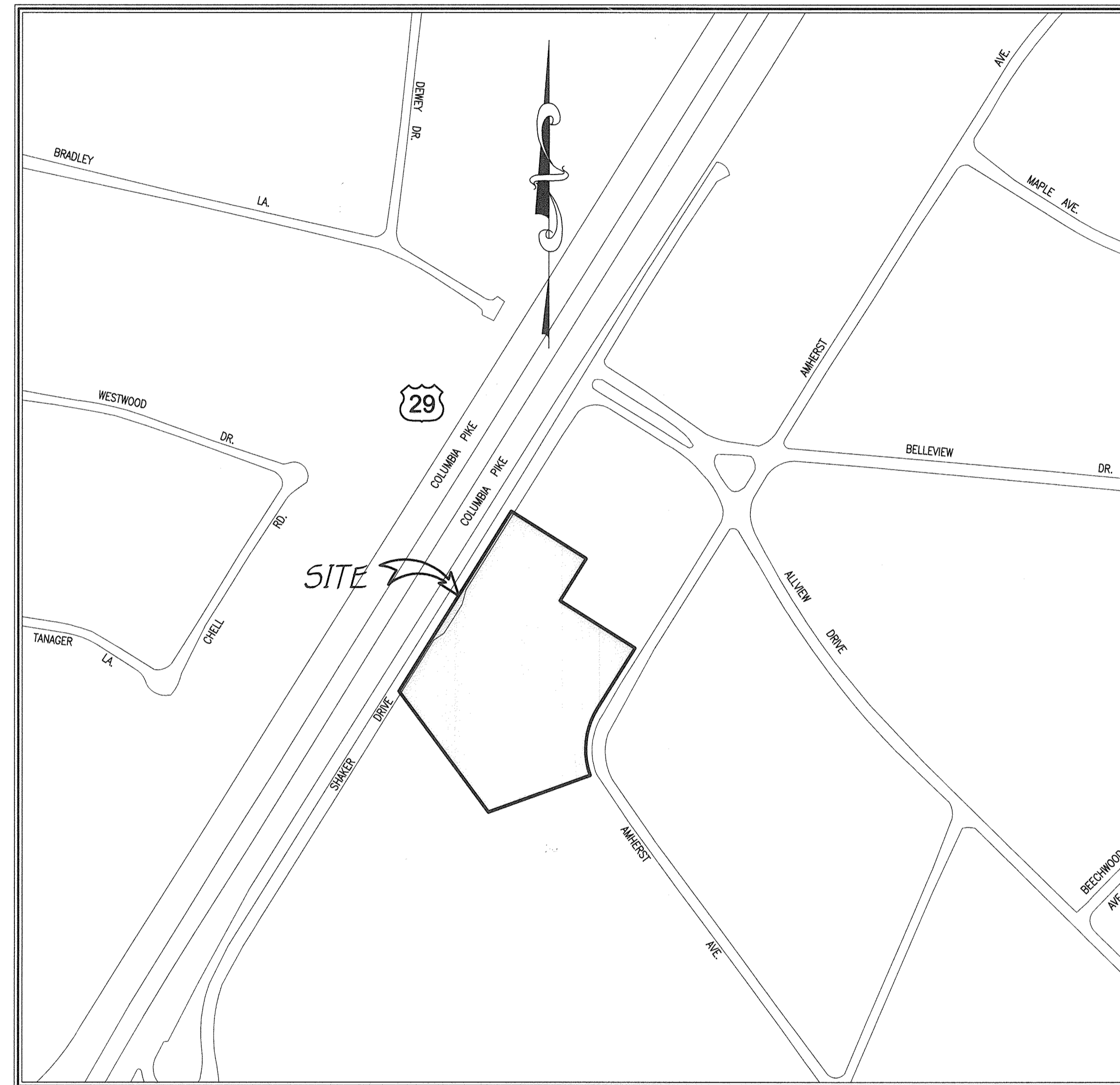
EXISTING FOREST COVER:		
G. Existing forest cover (excluding floodplain)		0
H. Area of forest above afforestation threshold		0
I. Area of forest above conservation threshold		0

BREAK EVEN POINT:		NA
J. Forest retention above threshold with no mitigation		
K. Clearing permitted without mitigation	Break-Even Point	

PROPOSED FOREST CLEARING		
L. Total area of forest to be Cleared or Retained Outside FCE		0
M. Total area of forest to be Retained in FCE		0

PLANTING REQUIREMENTS		
N. Reforestation for clearing above Conservation Threshold		0
P. Reforestation for clearing below Conservation Threshold		0
Q. Credit for retention above conservation threshold		0
R. Total reforestation required		0
S. Total afforestation required		0.34
T. Total reforestation and afforestation required		0.34

* 0.26 acre of disturbance for the off-site SWM facility on adjacent Parcel 54 was included in the gross area for forest conservation calculations.

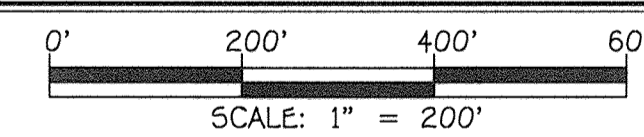


GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1800 AT LEAST FIVE WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY DIGGING AND EXCAVATION WORK.
- THIS SUBMISSION IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE 10-06-13 ZONING REGULATIONS PER COUNCIL BILL NO. 32-2013. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS OR PARCELS MUST COMPLY WITH SETBACKS AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF A BUILDING OR GRADING PERMIT APPLICATION.
- PROJECT BACKGROUND: SUBMISSION NAME: CHRIST MEMORIAL PRESBYTERIAN CHURCH, ALLVIEW ESTATES, SECTION THREE, BLOCK 'A', LOT 22
TAX MAP 36, GRID 13, PARCEL NO. 237
ZONING: R-20
ELECTION DISTRICT: SIXTH
GROSS SITE AREA: 3.73 AC.*
NUMBER OF BUILDABLE PARCELS: 1
AREA OF PUBLIC ROADWAY TO BE DEDICATED: 0 AC.*
AREA OF FLOODPLAIN: 0 AC.*
AREA OF 25% OR GREATER SLOPES: 0.0 AC.*
NET AREA OF TRACT: 3.73 AC.*
- BOUNDARY OUTLINE BASED ON FIELD RUN SURVEY PERFORMED BY FISHER COLLINS AND CARTER, INC. DATED MAY 2016.
- THIS SUBVISION IS RECORDED AMONG THE LAND RECORDS IN HOWARD COUNTY, MARYLAND AS PLAT NO. 23097.
- TOPOGRAPHIC CONTOURS BASED ON FIELD RUN SURVEY PERFORMED BY FISHER COLLINS AND CARTER, INC. DATE APRIL 2016.
- COORDINATES ARE BASED ON NAD 83 MARYLAND COORDINATES SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
36DF N 550,122.360 E 1,349,924.206 ELEV. 392.340
0070 N 556,041.785 E 1,350,374.704 ELEV. 406.331
- SUBJECT PROPERTY ZONED R-20 IN ACCORDANCE WITH THE OCTOBER 6, 2013 COMPREHENSIVE ZONING REGULATIONS.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARS GROUP DATED APRIL, 2016 AND APPROVED BY TRAFFIC ENGINEER AND DIVISION ON NOVEMBER 8, 2016.
- PREVIOUS DPZ FILE NUMBERS: BA 16-022&V, F-16-126, ECP-17-02.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- EXISTING WATER IS PUBLIC (CONTRACT NO. 806-W) AND SEWER IS PUBLIC (CONTRACT NO. 365-S).
- THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE BASED ON A VISUAL SITE VISIT AND BASED ON AN EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
- THERE ARE NO WETLANDS LOCATED ON-SITE PER ECO-SCIENCE PROFESSIONALS, INC.
- THE FOREST STAND DELINEATION FOR THIS PROJECT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED MAY 2016 AND WAS APPROVED UNDER ECP-17-02. THIS PLAN COMPLES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION. THE 0.34 ACRE AFFORESTATION OBLIGATIONS WILL BE FULFILLED OFFSITE AT THE FOREVER-A-FARM FOREST BANK (SOP-14-005).
- THERE IS NO FLOODPLAIN ON THIS SITE.
- SOILS INFORMATION TAKEN FROM HOWARD SCD WEBSITE PAGE 18 OF 29.
- ANY DAMAGE TO COUNTY AND OR STATE OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- ALL DRIVEWAYS AND PARKING ARE PRIVATELY OWNED AND MAINTAINED.
- GUTTER PAN OF CURBS SHALL BE PITCHED TO CONFORM TO THE ADJACENT DRAINAGE PATTERNS OF THE ADJOINING PAVING FOR VEHICULAR USE.
- ALL PROPOSED RAMP'S SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS ACCESSIBILITY GUIDELINES. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE TWO PERCENT. PROVIDE A (5'x5') FIVE FOOT BY FIVE FOOT LEVEL LANDING (MAX. SLOPE 2%) AT THE TOP AND BOTTOM OF ALL RAMP'S AND BUILDING ENTRANCES AND EXITS. HANDRAILS SHALL BE PROVIDED ON ALL RAMP'S IN ACCORDANCE WITH SECTION 505 OF THE A.D.A STANDARDS ACCESSIBILITY GUIDELINES.
- ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OR RADIAL BETWEEN ITEMS UNLESS OTHERWISE NOTED.
- THE EXISTING UTILITIES SHOWN HEREON WERE DERIVED FROM AVAILABLE PUBLIC RECORDS. THE CONTRACTOR MUST DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS AND CONNECTION POINTS PRIOR TO CONSTRUCTION TO VERIFY THE EXACT LOCATION.
- TRENCH BEDDING FOR STORM DRAIN STRUCTURES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD G2.01 CLASS C BEDDING UNLESS OTHERWISE NOTED.
- ALL OUTSIDE LIGHTING SHALL COMPLY WITH ZONING REGULATIONS SECTION 134.0 OF THE ZONING REGULATIONS WHICH REQUIRES LIGHTS TO BE INSTALLED TO DIRECT/REFLECT LIGHT DOWNWARDS AND AWARDS ON THE SITE AND AWAY FROM ALL PUBLIC STREETS AND RESIDENTIAL AREAS. "LIGHT TRESPASS ONTO ADJOINING RESIDENTIAL PROPERTIES SHALL BE LIMITED 0.1 FOOT CANDLES".
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH"), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO ("QUICK PUNCH") HOLES ABOVE THE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- A MARYLAND DEPARTMENT OF THE ENVIRONMENT NATIONWIDE POLLUTANT DISCHARGE NOI PERMIT WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS ON THE JOB SITE OUTLINED IN WWW.EPA.GOV/NPDES/STORMWATER/LATLONG.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS, THEIR REQUIRED BUFFERS, UNLESS THE ACTIVITIES ARE CONSIDERED NECESSARY OR WAIVERS ARE APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING. ACTIVITIES PROPOSED IN WETLANDS, STREAMS, THEIR BUFFERS, AS PART OF THE APPROVED STREAM AND WETLAND RESTORATION AND HABITAT MANAGEMENT PLANS ARE CONSIDERED NECESSARY BY THE DEPARTMENT OF PLANNING AND ZONING.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)". A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.
- STORMWATER MANAGEMENT HAS BEEN PROVIDED WITH ESD TO THE MEP. SPECIFICALLY TWO (2) MICRO-BIORETENTION FACILITIES AND EXISTING PAVEMENT REMOVAL WILL ADDRESS THE STORMWATER MANAGEMENT FOR THIS SITE. ALL ON-SITE STORM DRAINAGE AND STORMWATER MANAGEMENT FACILITIES WILL BE OWNED AND MAINTAINED BY CHRIST MEMORIAL PRESBYTERIAN CHURCH.
- ALL PROPOSED ON-SITE STORM DRAINS UNDER THIS SITE DEVELOPMENT PLAN LABELED PRIVATE WILL BE MAINTAINED BY THE CHRIST MEMORIAL PRESBYTERIAN CHURCH.
- LANDSCAPING HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY IN THE AMOUNT OF \$19,500.00 FOR 39 SHADE TREES, 20 EVERGREEN TREES AND 120 SHRUBS HAS BEEN POSTED WITH THE DEVELOPER'S AGREEMENT.
- THIS PLAN IS SUBJECT TO BOARD OF APPEALS CASE BA 16-022&V:
VARIANCE #1 - PETITIONER IS REQUESTING A REDUCTION IN THE 20-FOOT USE SETBACK FROM A COLLECTOR STREET ROW IMPOSED BY 108.0.D.4.b.(2) TO 6.0 FEET FOR A DRIVE ABLE ON THE WEST SIDE OF THE PROPERTY. THE PROPOSED SITE DESIGN IS INTENDED TO REDISTRIBUTE TRAFFIC/PARKING FROM THE ENTRANCE ON AMHERST AVENUE TO SHAKER DRIVE.
VARIANCE #2 - PETITIONER IS REQUESTING A REDUCTION IN THE 20-FOOT USE SETBACK FROM A PUBLIC STREET ROW IMPOSED BY 108.0.D.4.b.(2) TO 2.5 FEET FOR PARKING IN THE EAST LOT. ALTHOUGH THIS PARKING SPACE AREA IS LEGALLY NONCOMPLYING TO THE ZONING REGULATIONS, AS THE 1961 ZONING REGULATIONS DID NOT REQUIRE PARKING USEBACKS, THE VARIANCE WOULD BRING THE PARKING INTO CONFORMANCE. THIS DISTANCE HAS BEEN INCREASED TO 5.0 FEET FOR LANDSCAPING CLEARANCE.
APPROVAL GRANTED BY THE HEARING EXAMINER ON 2/23/17.

LOCATION MAP

SCALE: 1" = 200'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2899



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2018."

Charles J. Cecovo, Sr.
CHARLES J. CECHOV, SR., P.E.
7/19/17
DATE

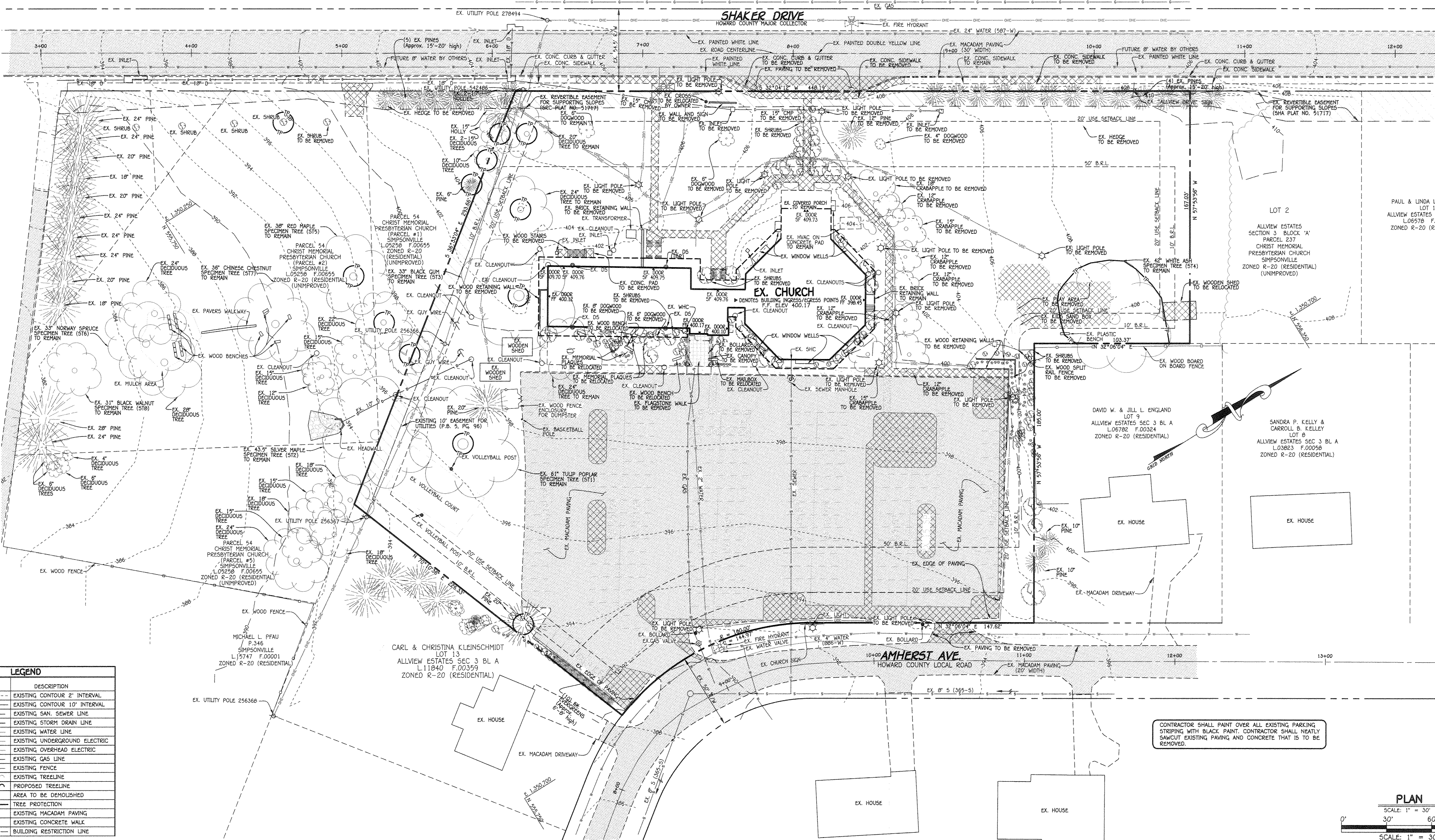
DATE	DESCRIPTION	REVISION BLOCK
9/10/16	REVISED SITE ANALYSIS DATA	
4-5-10	REVISED SITE DATA	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>N. Adams</i>	Director, Department of Planning and Zoning	9-6-17
<i>V. Adams</i>	Chief, Division of Land Development	9-6-17
<i>Ch. Cecovo</i>	Chief, Development Engineering Division	9-1-17

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

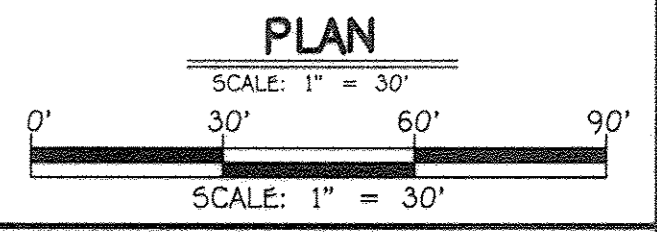
PERMIT INFORMATION CHART				
SUBMISSION NAME	SECTION	LOT NOS.		
ALLVIEW ESTATES	3	22		
PLAT# OR L/F	GRID#	ZONING	TAX MAP#	ELECT. DISTR.
23057	13	R-20	36	SIXTH
CENSUS TRACT	6067.01			

TITLE SHEET	
CHRIST MEMORIAL PRESBYTERIAN CHURCH	
ALLVIEW ESTATES SECTION THREE, BLOCK 'A', LOT 22	
ZONED R-20 PARCEL No.: 237 TAX MAP No.: 36 GRID No.: 13 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL 12, 2017	
SHEET 1 OF 19	



LEGEND	
SYMBOL	DESCRIPTION
--- 402 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN. SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
U	EXISTING UNDERGROUND ELECTRIC
O	EXISTING OVERHEAD ELECTRIC
G	EXISTING GAS LINE
X	EXISTING FENCE
T	EXISTING TREELINE
P	PROPOSED TREELINE
Area with diagonal hatching	AREA TO BE DEMOLISHED
TP	TREE PROTECTION
Area with horizontal hatching	EXISTING MACADAM PAVING
Area with vertical hatching	EXISTING CONCRETE WALK
B.R.L.	BUILDING RESTRICTION LINE

CONTRACTOR SHALL PAINT OVER ALL EXISTING PARKING STRIPING WITH BLACK PAINT. CONTRACTOR SHALL NEATLY SAWCUT EXISTING PAVING AND CONCRETE THAT IS TO BE REMOVED.



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SOURCE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE
 ELKLOFT CITY, MARYLAND 21042
 (410) 441-2000



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018."
 Charles J. Crovo, Sr., P.E.
 7/11/17 DATE

DATE	DESCRIPTION	REVISION BLOCK
9-6-17	DATE	9-6-17
9-6-17	DATE	9-6-17
9-1-17	DATE	9-1-17

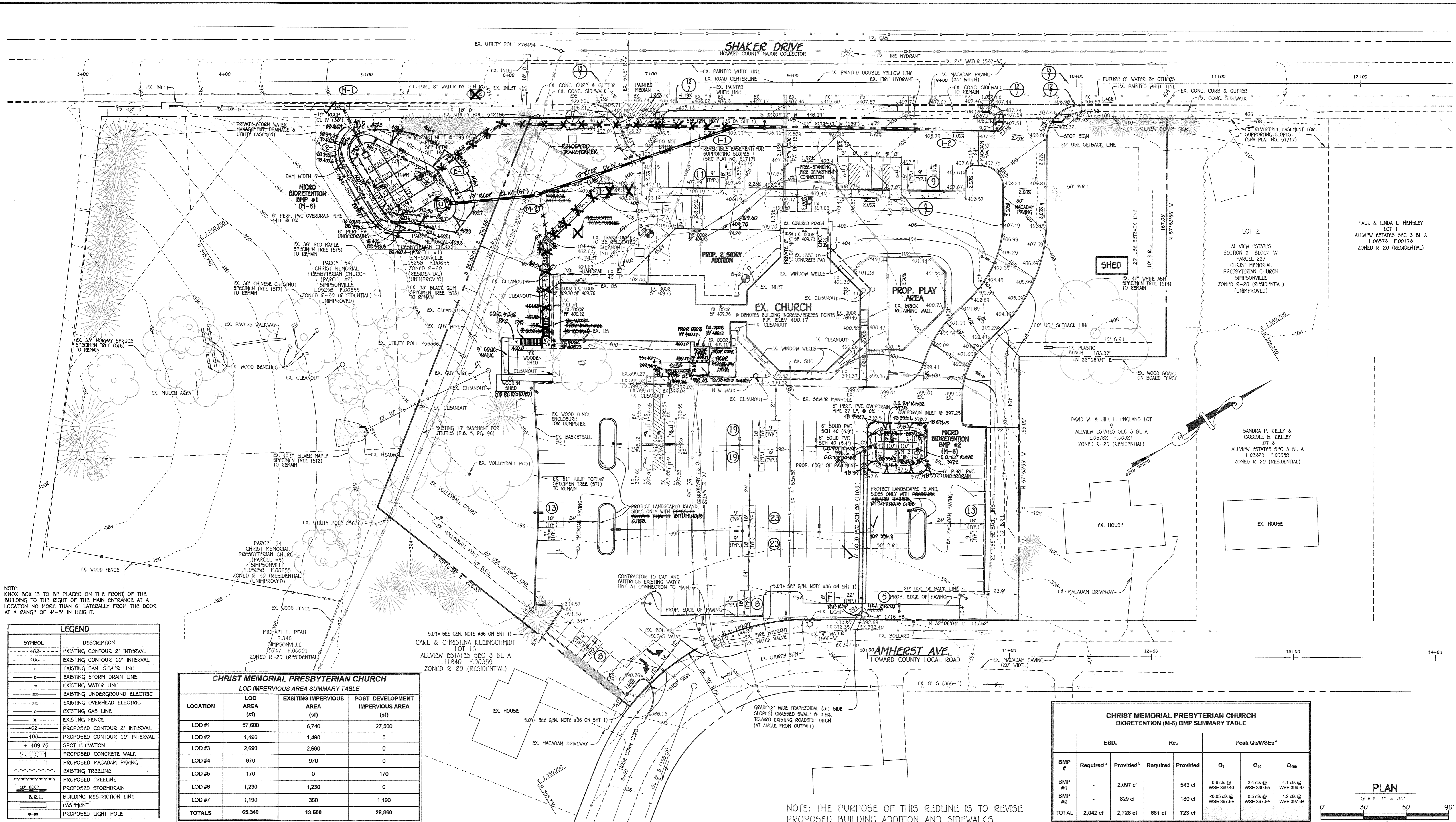
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director - Department of Planning and Zoning
 Chief, Division of Land Development
 Chief, Development Engineering Division

PREPARED FOR
 CHRIST MEMORIAL PRESBYTERIAN CHURCH
 6410 AMHERST AVENUE
 COLUMBIA, MARYLAND 21046
 ATTENTION: REV. SCOTT W. HOFFMAN
 410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/P	GRID#	ZONING	TAX MAP#
23057	13	R-20	36
		ELECT. DISTR.	CENSUS TRACT
		SIXTH	6067.01

DEMOLITION PLAN
CHRIST MEMORIAL PRESBYTERIAN CHURCH
 ALLVIEW ESTATES
 SECTION THREE, BLOCK 'A', LOT 22
 ZONED R-20 PARCEL No.: 237
 TAX MAP No.: 36 GRID No.: 13
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: APRIL 12, 2017
 SHEET 2 OF 19

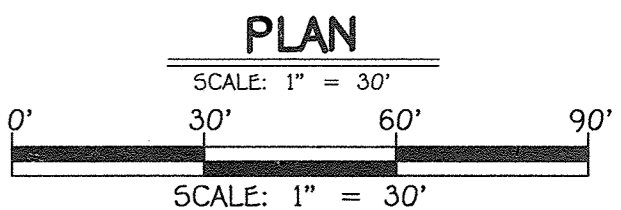


NOTE: KNOX BOX IS TO BE PLACED ON THE FRONT OF THE BUILDING TO THE RIGHT OF THE MAIN ENTRANCE AT A LOCATION NO MORE THAN 6' LATERALLY FROM THE DOOR AT A RANGE OF 4'-5' IN HEIGHT.

SYMBOL	DESCRIPTION
--- 402 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN. SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
USE	EXISTING UNDERGROUND ELECTRIC
OE	EXISTING OVERHEAD ELECTRIC
G	EXISTING GAS LINE
X	EXISTING FENCE
--- 402 ---	PROPOSED CONTOUR 2' INTERVAL
--- 400 ---	PROPOSED CONTOUR 10' INTERVAL
+ 409.75	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
18" RCP	PROPOSED STORMDRAIN
B.R.L.	BUILDING RESTRICTION LINE
---	EASEMENT
---	PROPOSED LIGHT POLE

LOCATION	LOD AREA (sf)	EXISTING IMPERVIOUS AREA (sf)	POST-DEVELOPMENT IMPERVIOUS AREA (sf)
LOD #1	57,600	6,740	27,500
LOD #2	1,490	1,490	0
LOD #3	2,690	2,690	0
LOD #4	970	970	0
LOD #5	170	0	170
LOD #6	1,230	1,230	0
LOD #7	1,190	380	1,190
TOTALS	65,340	13,500	28,880

BMP #	ESD,		Re,		Peak Qs/WSEs*		
	Required ¹	Provided ²	Required	Provided	Q ₁	Q ₁₀	Q ₁₀₀
BMP #1	-	2,097 cf	-	543 cf	0.6 cfs @ WSE 399.40	2.4 cfs @ WSE 399.55	4.1 cfs @ WSE 399.67
BMP #2	-	629 cf	-	180 cf	<0.05 cfs @ WSE 397.62	0.5 cfs @ WSE 397.62	1.2 cfs @ WSE 397.62
TOTAL	2,042 cf	2,726 cf	681 cf	723 cf			



NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING ADDITION AND SIDEWALKS.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2999

AS-BUILT CERTIFICATION FOR PSWM
I hereby certify that the facility shown on the plan was constructed as shown on the "AS-BUILT" plans and complies with the approved plans and specifications. I have verified that the contributing drainage area is sufficiently stabilized to prevent clogging of the underground SWM facility.

Charles J. Ordo, P.E.
Date: 11/18/19
NO. 19704

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2018."

Charles J. Ordo, Sr., P.E.
Date: 4/1/18

DATE	DESCRIPTION	REVISION BLOCK
11/4/19	REVISE STORM DRAIN SIDEWALK & ADD BIT. DUES TO PARKING ISLAND	
11/11/19	RELOCATED SIDEWALK AND SIDEWALK TO SECOND FLOOR	
9/10/19	REMOVED WOODEN WALK AND REPAVED 2 STORY DRIVEWAY/POWELL	
2/27/18	REV. BLDG. ADDITIONS, SIDEWALKS, WATER SERVICE LINE, TRANSFORMER RELOCATION, EX. FIRE HYDRANT LOCATION AND GRADING.	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - *Valerie J. ...* 4-24-18
Chief, Division of Planning and Zoning
Chief, Development Engineering Division

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

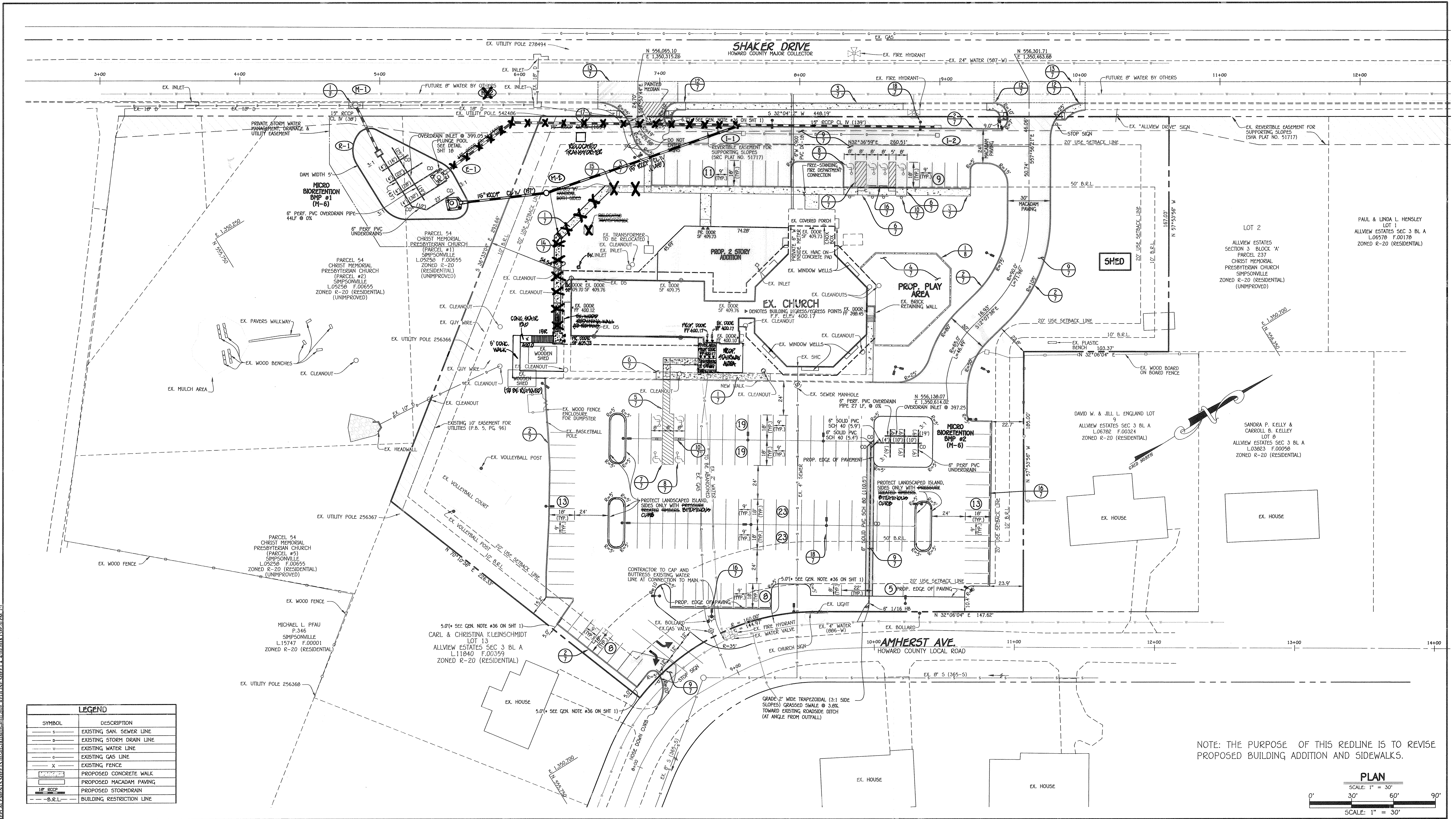
PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F	GRID#	ZONING	TAX MAP#
23857	13	R-20	36
ELECT. DISTR.	CENSUS TRACT		
SIXTH	6067.01		

SITE DEVELOPMENT PLAN
REVISED SITE DEVELOPMENT PLAN
CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL 12, 2017

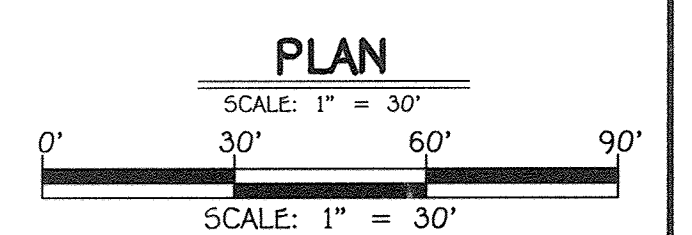
SHEET 3 OF 19

1:2016 16010/Engineering/Drawings/STP/REPLACEMENTS SHEETS (02-01-18)/16010-4001.dwg, REDLINE SHEET 3, 4/10/2018 1:19:06 PM, E1



LEGEND	
SYMBOL	DESCRIPTION
-S-	EXISTING SAN. SEWER LINE
-D-	EXISTING STORM DRAIN LINE
-W-	EXISTING WATER LINE
-G-	EXISTING GAS LINE
-X-	EXISTING FENCE
[Pattern]	PROPOSED CONCRETE WALK
[Pattern]	PROPOSED MACADAM PAVING
[Pattern]	PROPOSED STORMDRAIN
-B.R.L.-	BUILDING RESTRICTION LINE

NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING ADDITION AND SIDEWALKS.



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21142
(410) 451-2095



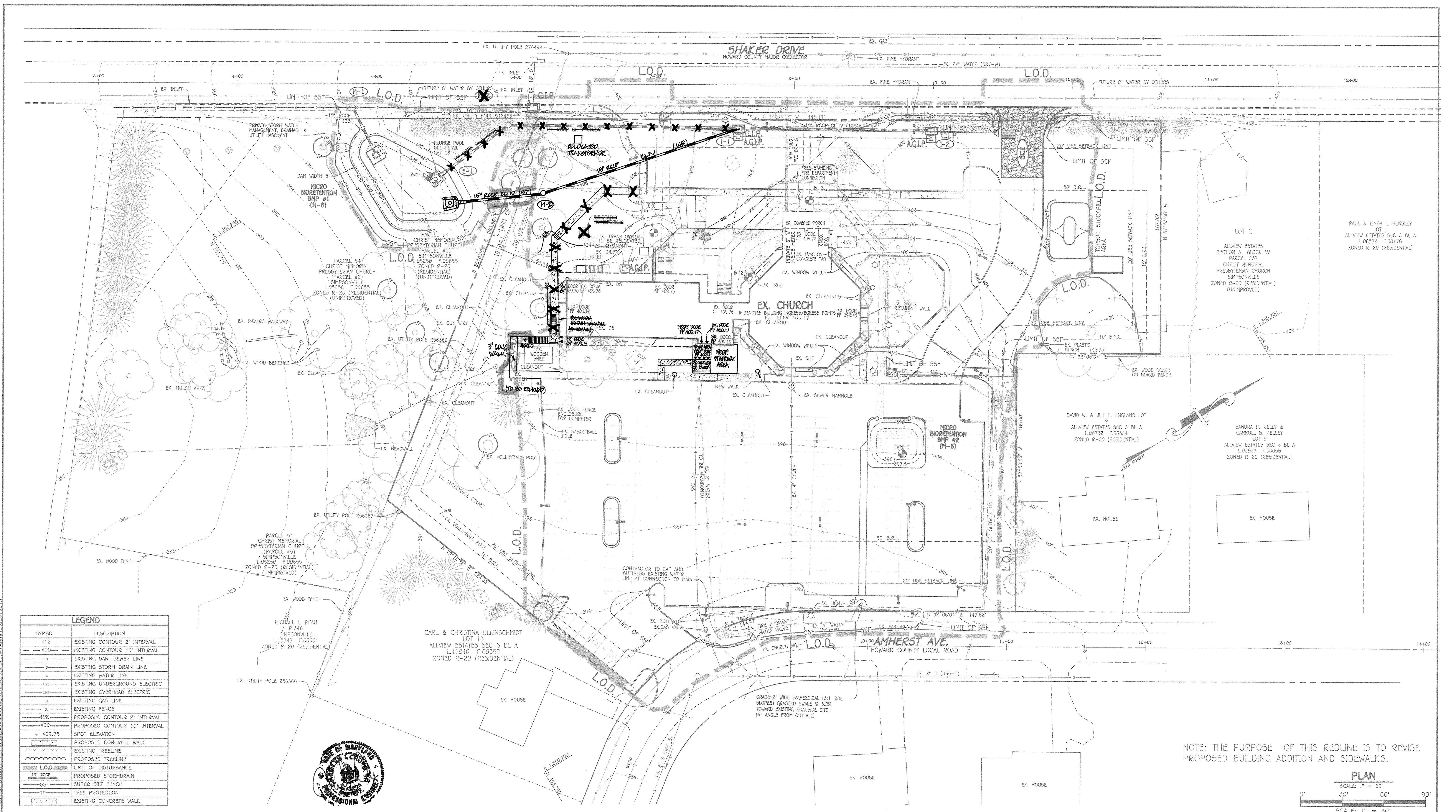
"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204. Expiration Date: November 3, 2019."
Charles J. Crovo, Sr., P.E.
4/11/18
DATE

11/4/10	REMOVE STORM DRAIN, SIDEWALK & ADD EX. CURB TO PARKING ISLAND
11/1/10	RELOCATED SIDEWALK AND SIDEWALK TO SECOND FLOOR
9/30/10	REMOVED WALKWAY, SIDEWALK AND CONCRETE & SIDEWALK, POWER
2/27/18	REV. BLDG. ADDITIONS, SIDEWALKS, WATER SERVICE LINE, TRANSFORMER RELOCATION, EX. FIRE HYDRANT LOCATION AND GRADING.
DATE	DESCRIPTION
REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
[Signature]	4-24-18 Date
Director - Department of Planning and Zoning	
[Signature]	4-24-18 Date
Chief, Division of Land Development	
[Signature]	4-19-18 Date
Chief, Development Engineering Division	

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART				
LOT/PARCEL#	STREET ADDRESS			
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046			
PERMIT INFORMATION CHART				
SUBDIVISION NAME		SECTION	LOT NOS.	
ALLVIEW ESTATES		3	22	
PLAT# OR L/F	GRID#	ZONING	TAX MAP#	ELECT. DISTR.
23057	13	R-20	36	SIXTH
CENSUS TRACT		6067.01		

GEOMETRY PLAN	
REVISED SITE DEVELOPMENT PLAN CHRIST MEMORIAL PRESBYTERIAN CHURCH ALLVIEW ESTATES SECTION THREE, BLOCK 'A', LOT 22	
ZONED R-20	PARCEL No.: 237
SIXTH ELECTION DISTRICT	TAX MAP No.: 36 GRID No.: 13
SCALE: 1" = 30'	HOWARD COUNTY, MARYLAND DATE: APRIL 12, 2017
SHEET 4 OF 19	



LEGEND	
SYMBOL	DESCRIPTION
--- 402 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN. SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
USE	EXISTING UNDERGROUND ELECTRIC
OHE	EXISTING OVERHEAD ELECTRIC
G	EXISTING GAS LINE
X	EXISTING FENCE
402	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
+ 409.75	SPOT ELEVATION
[Symbol]	PROPOSED CONCRETE WALK
[Symbol]	EXISTING TREELINE
[Symbol]	PROPOSED TREELINE
L.O.D.	LIMIT OF DISTURBANCE
18" SSCP	PROPOSED STORMDRAIN
SSF	SUPER SILT FENCE
TP	TREE PROTECTION
[Symbol]	EXISTING CONCRETE WALK



NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING ADDITION AND SIDEWALKS.

PLAN

SCALE: 1" = 30'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLSWORTH CITY, MARYLAND 21046
 (410) 481-2855

ENGINEER'S CERTIFICATE
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer: *Charles J. Grovo, Sr.* Date: 04/10/18

DEVELOPER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *Robert J. Jankin* Date: 4/10/18

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2018."
 Signature: *Charles J. Grovo, Sr.* Date: 04/10/18
 CHARLES J. GROVO, SR., P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John K. Peltier* Date: 4/10/18
 John K. Peltier, District Engineer

DATE	DESCRIPTION
11/4/19	REMOVE SIDEWALK, SIDEWALK & ADD BIT. CURB TO PARKING ISLANDS
11/1/19	RELOCATED SIDEWALK AND SIDEWALK TO SECOND FLOOR
9/10/19	REMOVED WINDOW WALK AND REMOVED 2 SIDES SIDEWALK/PORCH
2/27/18	REV. BLDG. ADDITIONS, SIDEWALKS, WATER SERVICE LINE, TRANSFORMER RELOCATION, EX. FIRE HYDRANT LOCATION AND GRADING.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *Valerie Flis* Date: 4-24-18
 Director - Department of Planning and Zoning
 Signature: *Keith Stankovich* Date: 4-24-18
 Chief, Division of Land Development
 Signature: *Paul Blum* Date: 4/18/18
 Chief, Development Engineering Division

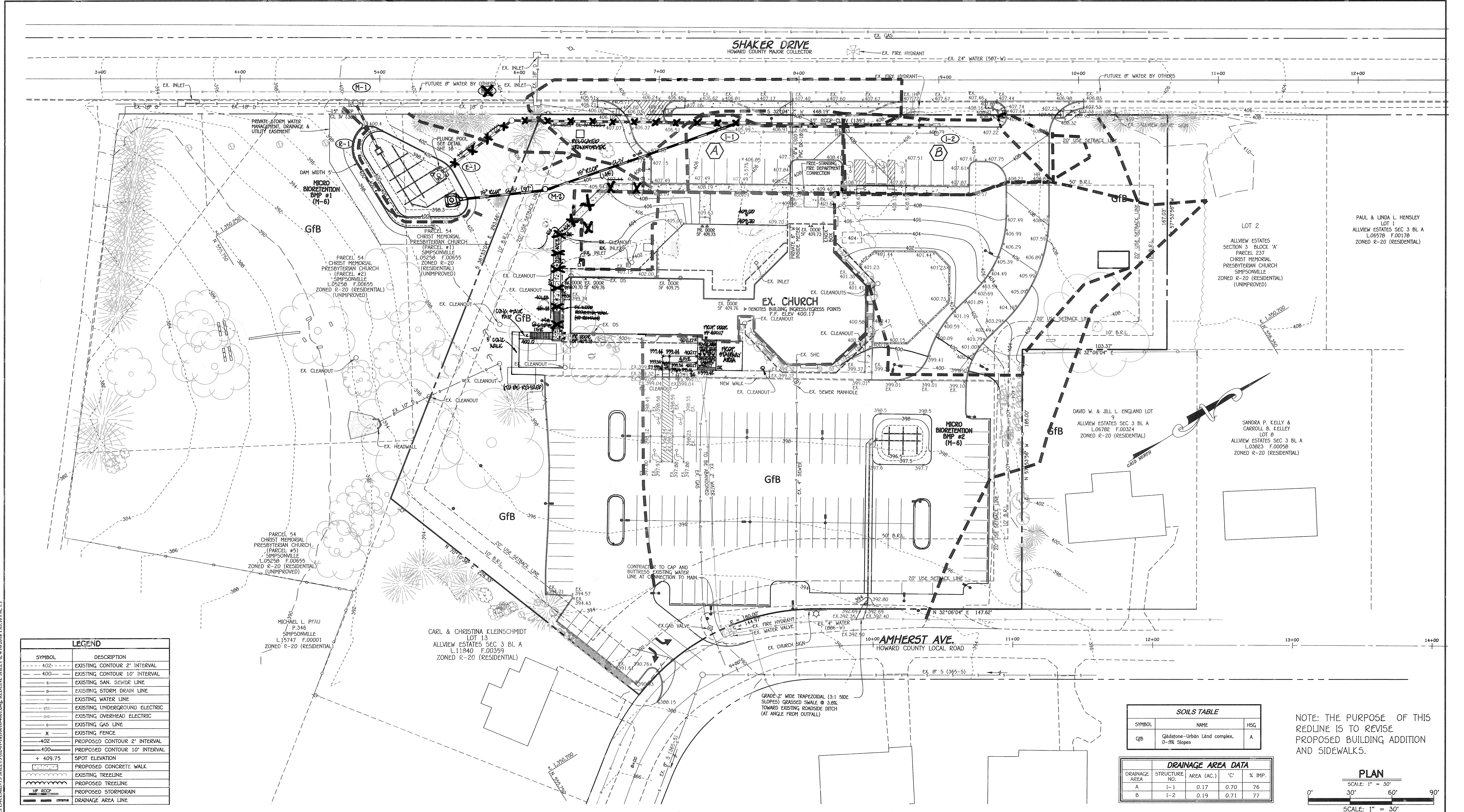
PREPARED FOR
 CHRIST MEMORIAL PRESBYTERIAN CHURCH
 6410 AMHERST AVENUE
 COLUMBIA, MARYLAND 21046
 ATTENTION: REV. SCOTT W. HOFFMAN
 410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART				
SUBDIVISION NAME	SECTION	LOT NOS.		
ALLVIEW ESTATES	3	22		
PLAT# OR L/F	GRID#	ZONING	TAX MAP#	ELECT. DISTR.
23857	13	R-20	36	SIXTH
		CENSUS TRACT		
		6067.01		

SEDIMENT AND EROSION CONTROL PLAN
 REVISED SITE DEVELOPMENT PLAN
 CHRIST MEMORIAL PRESBYTERIAN CHURCH
 ALLVIEW ESTATES SECTION THREE, BLOCK 'A', LOT 22
 ZONED R-20 PARCEL No.: 237
 TAX MAP No.: 36 GRID No.: 13
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: APRIL 12, 2018

SHEET 5 OF 19



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10722 BALDWIN NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 451-1299

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2018.

Charles J. Cecilio, Sr., P.E.
DATE: 4/18/18

11/4/19 REPAIR BROOK DRAIN, SIDEWALK & ADD PAV. CURB TO PARKING PLAZA
11/1/18 RELOCATED SIDEWALK AND SIDEWALK TO SECOND FLOOR
9/10/18 REMOVED WINDOW WELLS AND REPAIRED & GROUT STAIRWAY/PORCH
2/27/18 REV. BLDG. ADDITIONS, SIDEWALKS, WATER SERVICE LINE, TRANSFORMER RELOCATION, EX. FIRE HYDRANT LOCATION AND GRADING.

DATE: 4/18/18
DESCRIPTION: REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning: *Valerie J. [Signature]* 4-24-18
Date: 4-24-18
Chief, Division of Land Development: *Kevin [Signature]* 4-24-18
Date: 4-24-18
Chief, Development Engineering Division: *[Signature]* 4-18-18
Date: 4-18-18

PREPARED FOR:
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART

LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

SOILS AND DRAINAGE AREA MAP

REVISED SITE DEVELOPMENT PLAN
CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: APRIL 12, 2017

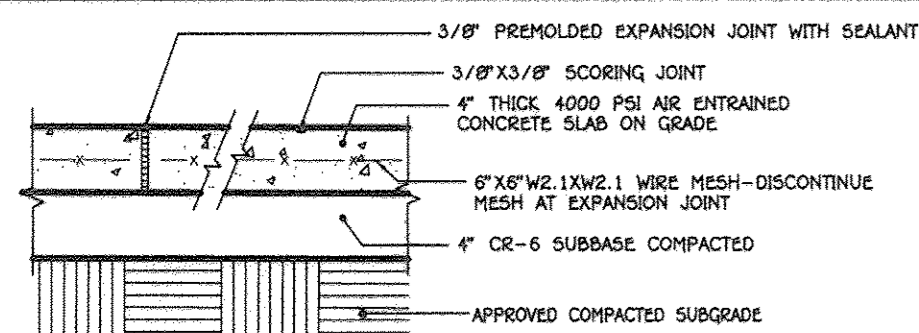
SCALE: 1" = 30'

SHEET 6 OF 19

NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING ADDITION AND SIDEWALKS.

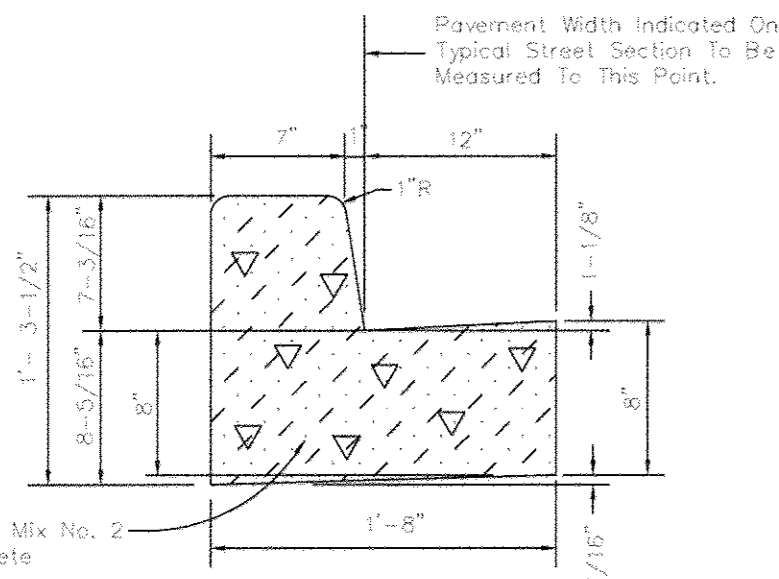
PLAN
SCALE: 1" = 30'

SDP-17-021

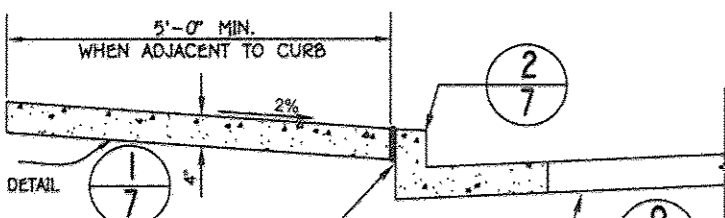


NOTE: INSTALL EXPANSION JOINTS AT MAX. 15'-0" O.C. AND INSTALL SCORING JOINTS AT MAX. 5'-0" O.C.
SLOPE ACROSS SIDEWALK SHALL BE MIN. 1/8" FT.

1 CONCRETE WALK DETAIL
NO SCALE

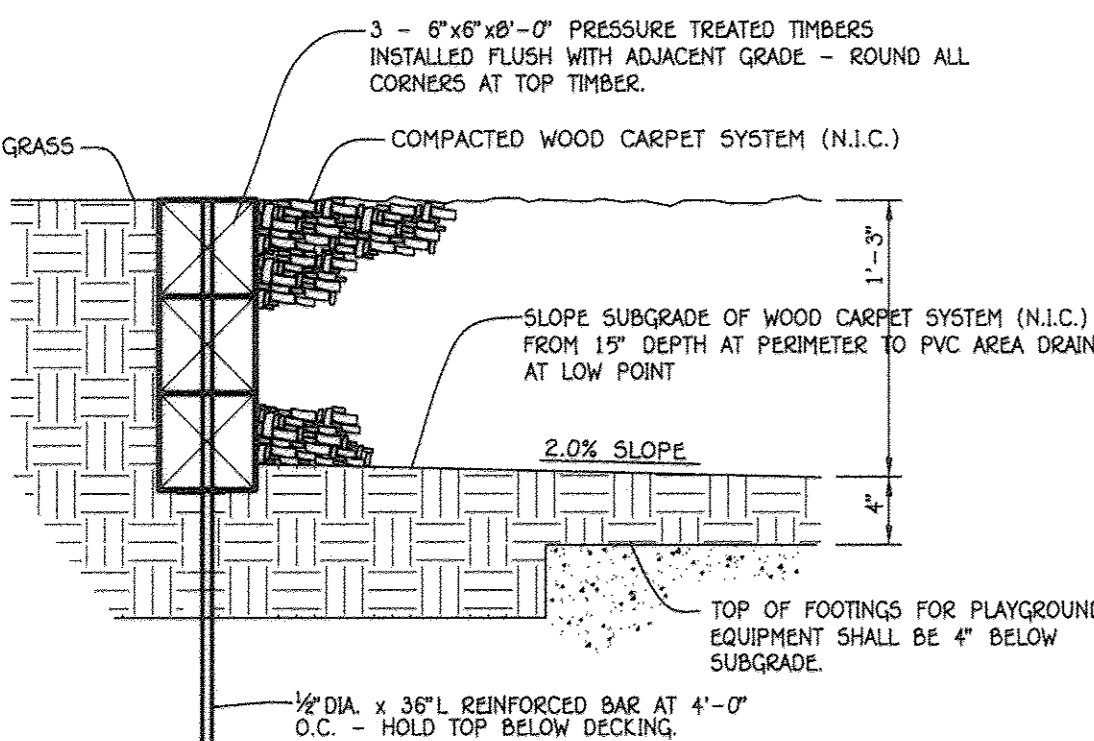


2 STANDARD 7" COMB. CONC. CURB AND GUTTER
NO SCALE

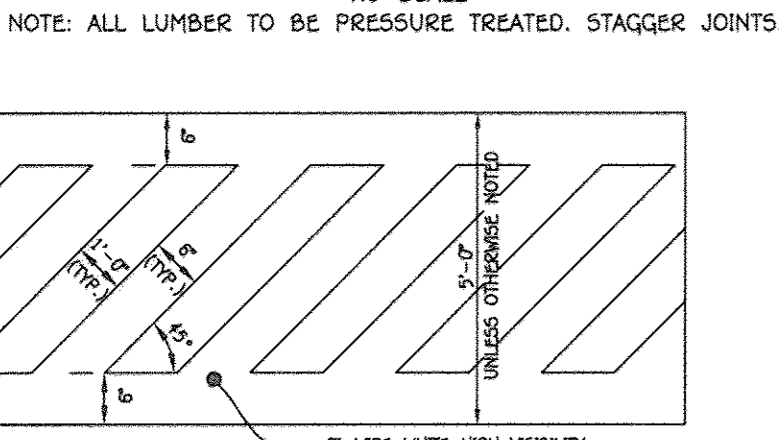


1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL WITH SEALANT.
NOTES:
1. SIDEWALK TO BE SCURED IN EQUALLY 5'-0" MAXIMUM SQUARES.
2. EXPANSION JOINTS ACROSS THE SIDEWALK NOT MORE THAN 15' APART.
3. 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK. FILL WITH SEALANT.
4. 4000 PSI AIR ENTRAINED CONCRETE SHALL BE USED.
5. WHEN SIDEWALK ABUTS CURB, WALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL BETWEEN SIDEWALK AND CURB.
6. SIDEWALK WIDTH ADJACENT TO CURB SHALL BE 5'-0" MIN.
7. SIDEWALK LOCATED 2' OR MORE FROM CURB MAY BE 4'-0" IN WIDTH WITH A 5' x 5' PAVED SECTION PLACED 300' APART.
8. PROVIDE 1/2" EXPANSION JOINT WHERE WALKS ABUT EXISTING CONCRETE SURFACES TO REMAIN.

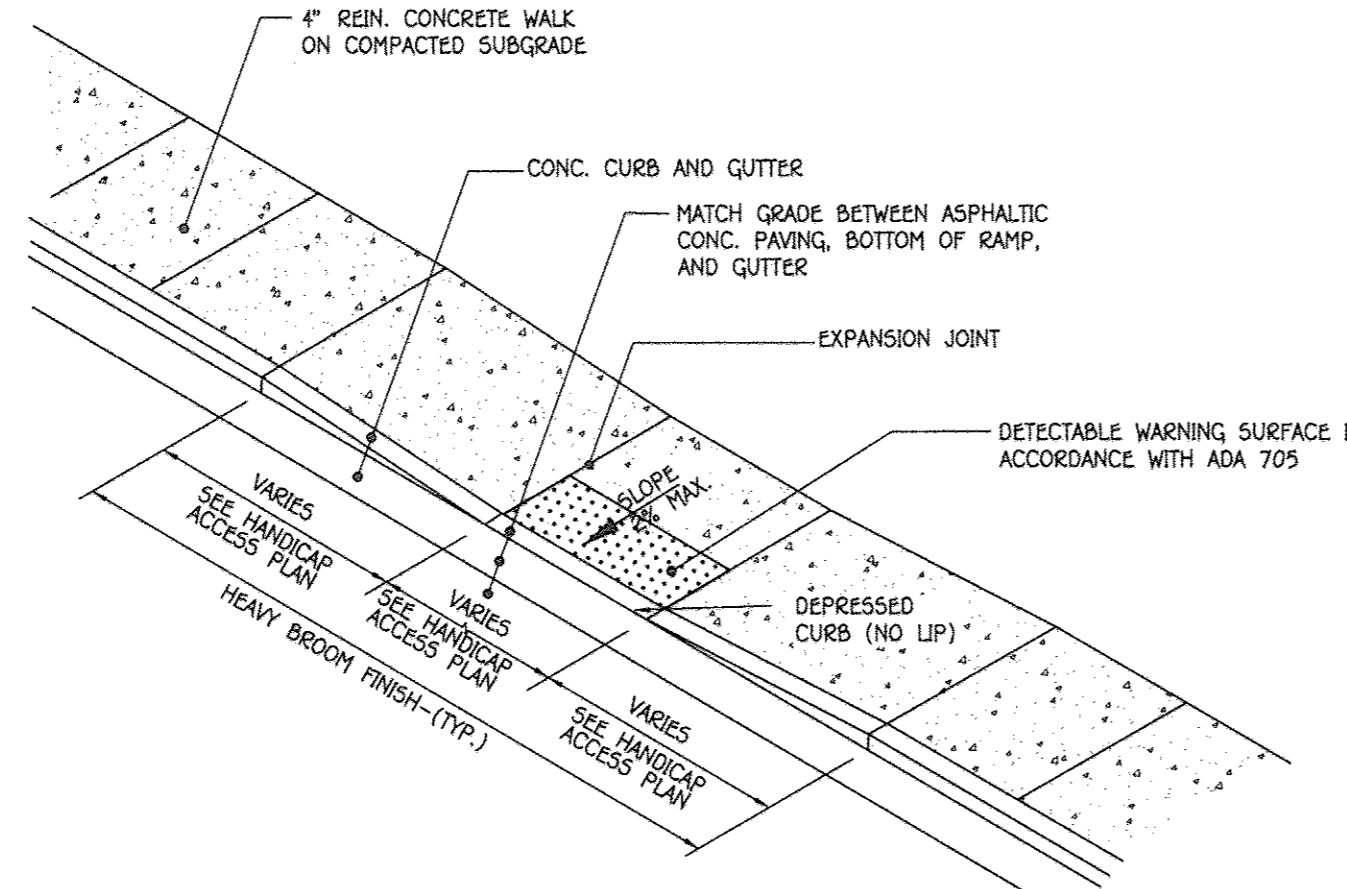
3 CONCRETE SIDEWALK ADJACENT TO CURB DETAIL
HOWARD COUNTY STANDARD DETAIL R-3.05
NO SCALE



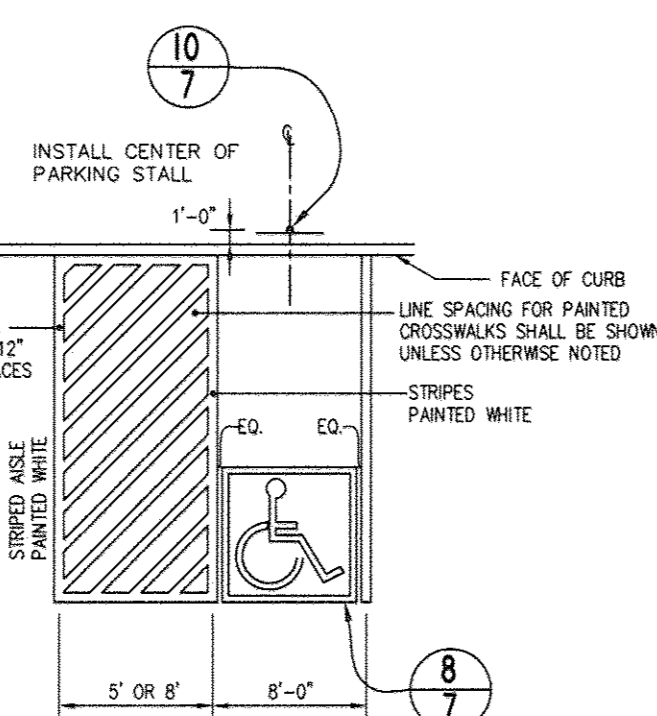
4 PLAY AREA SURFACE/DRAINAGE DETAIL
NO SCALE



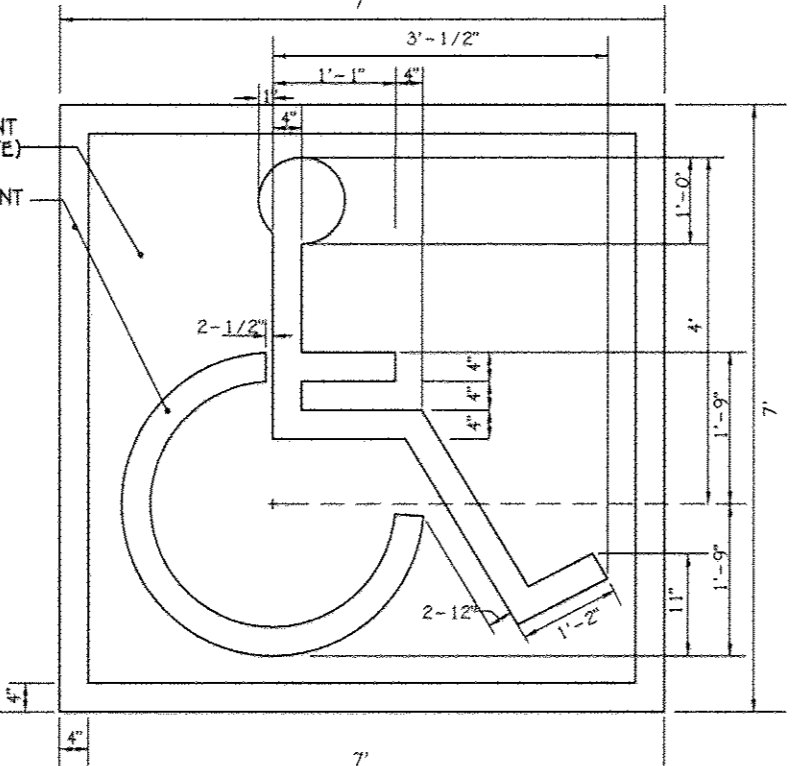
5 CROSSWALK DETAIL
NO SCALE



6 SIDEWALK RAMP DETAIL
NO SCALE



7 ACCESSIBLE SPACE LAYOUT
NO SCALE



8 HANDICAP SPACE STENCIL LAYOUT
NO SCALE

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)	MIN HMA WITH GAB				HMA WITH CONSTANT GAB			
			3 TO <5	5 TO <7	>7	3 TO <5	5 TO <7	>7		
P-2	PARKING DRIVE ASILES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY	HMA SUPERPAVE FINAL SURFACE 9.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
		HMA SUPERPAVE INTERMEDIATE SURFACE 9.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
		HMA SUPERPAVE BASE	2.0	2.0	2.0	3.5	2.0	2.0	2.0	2.0
	LOCAL ROADS: ACCESS PLACE, ACCESS STREET	19.0 MM. PG. 64-22, LEVEL 1 (ESAL)	8.0	4.0	3.0	4.0	4.0	4.0	4.0	
	CUL-DE-SACS: RESIDENTIAL	GRADED AGGREGATE BASE (GAB)	8.0	4.0	3.0	4.0	4.0	4.0	4.0	

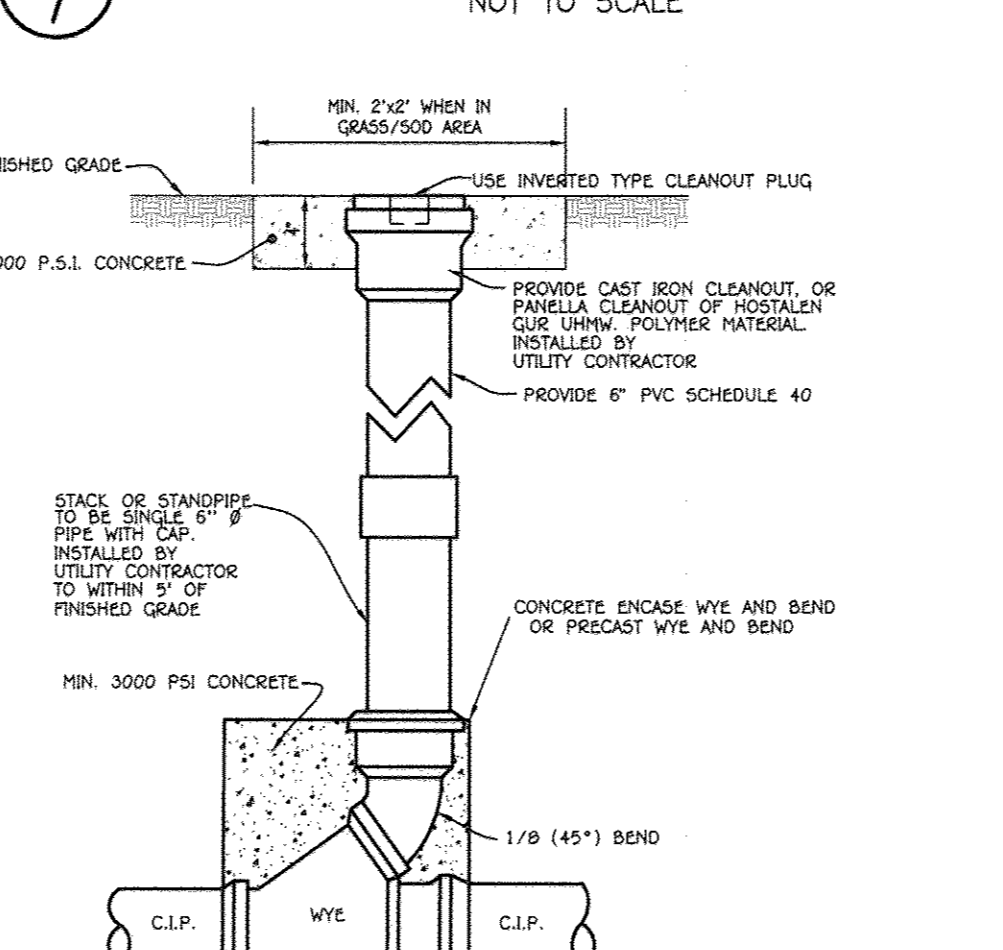
9 P-2 PAVING SECTION
NO SCALE



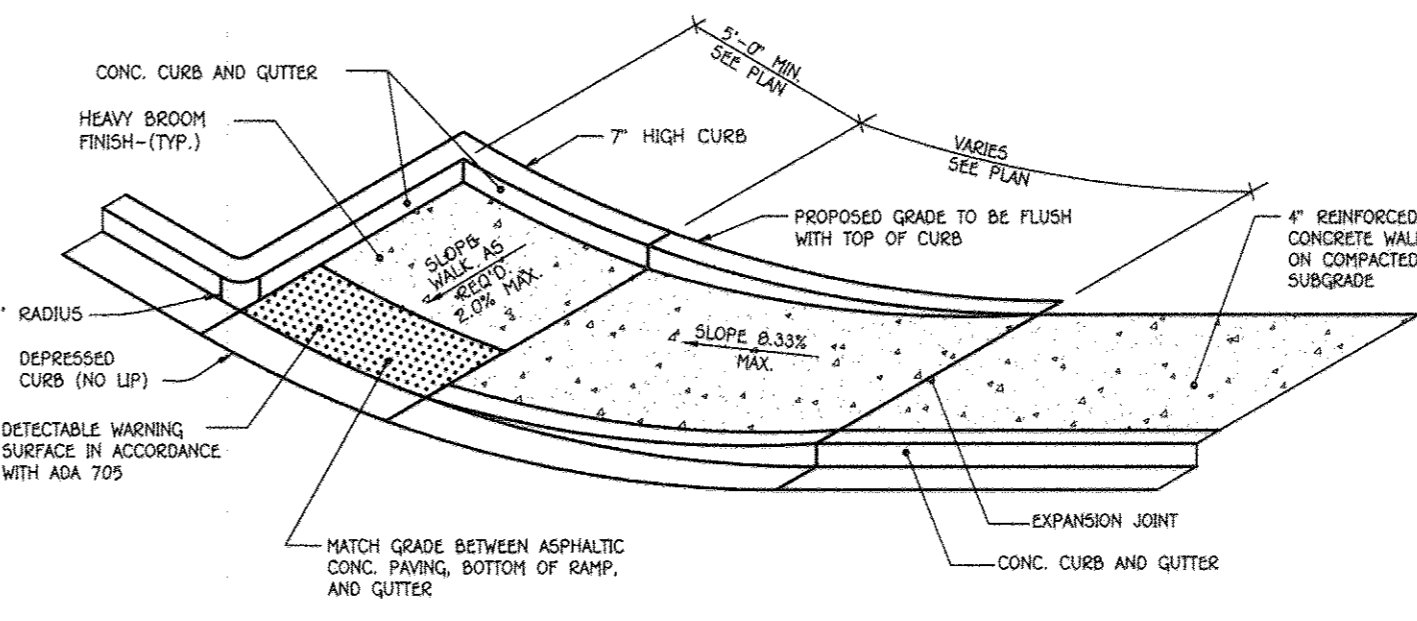
10 HANDICAP PARKING SIGN DETAIL
NOT TO SCALE

GENERAL NOTES:
1. SIGNS SHALL MEET DESIGN STANDARDS OF THE FEDERAL HIGHWAY ADMINISTRATION AND CONFORM TO THE STATE OF MARYLAND STANDARD HIGHWAY SIGN BOOKLET DETAIL R7-6.
2. ONE SIGN IS REQUIRED PER SPACE PLACED AS SHOWN ON SITE IMPROVEMENT PLAN.
3. SIGNS SHALL BE POLE MOUNTED WITH HOT DIPPED GALVANIZED COUNTRY APPROVED PERFORATED CHANNEL POSTS W/TOP OF SIGNS 9'-1" ABOVE FINISHED GRADE OR AS INDICATED ON SITE DRAWINGS.
4. SIGN SHALL BE ATTACHED TO FLANGED SIDE OF POST. POST SHALL EXTEND INTO GROUND 2'-6" MIN.
5. COLORS: LEGEND AND BORDER-GREEN SYMBOL-WHITE ON BLUE BACKGROUND BACKGROUND-WHITE
6. CONTRACTOR SHALL COORDINATE ARROW DIRECTION WITH LOCATION OF ADJACENT AISLE.
7. SPACES INDICATED ON SITE DEVELOPMENT PLANS AS "VAN ACCESSIBLE" SHALL BE SIGNED ACCORDINGLY.

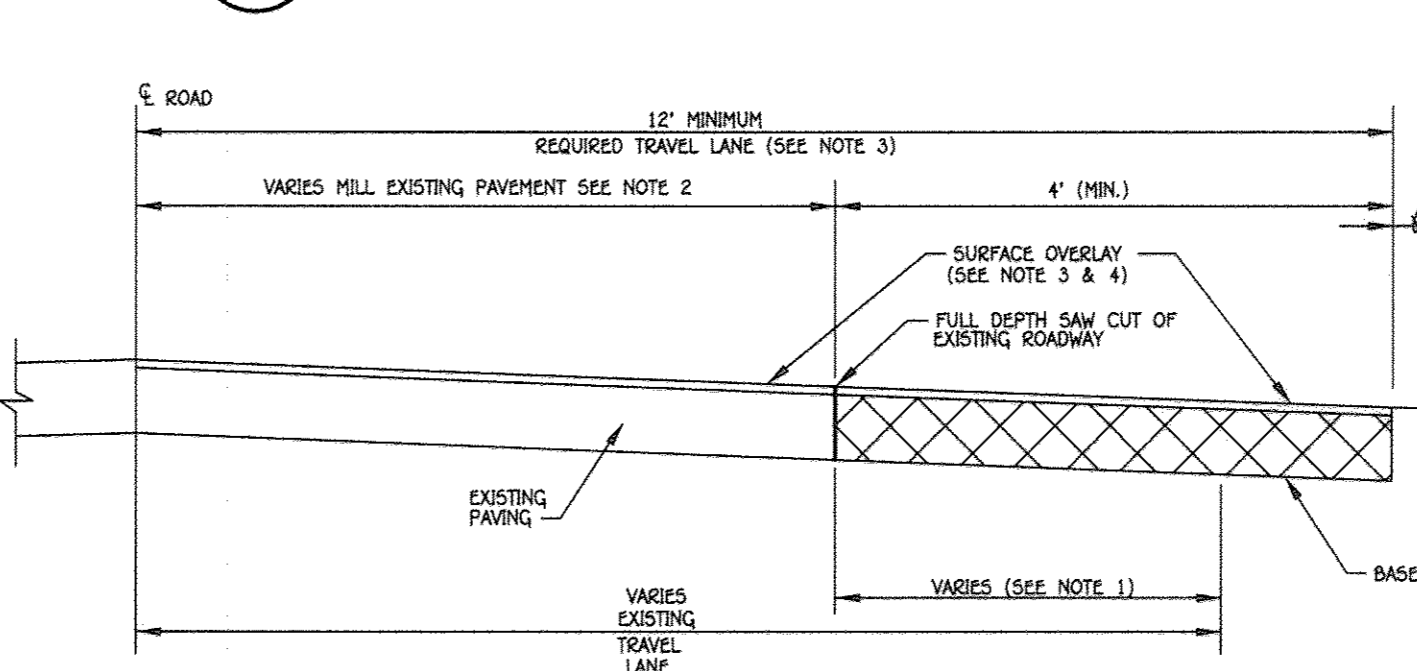
11 TYPICAL CLEAN-OUT
NO SCALE



12 SIDEWALK RAMP DETAIL
NO SCALE

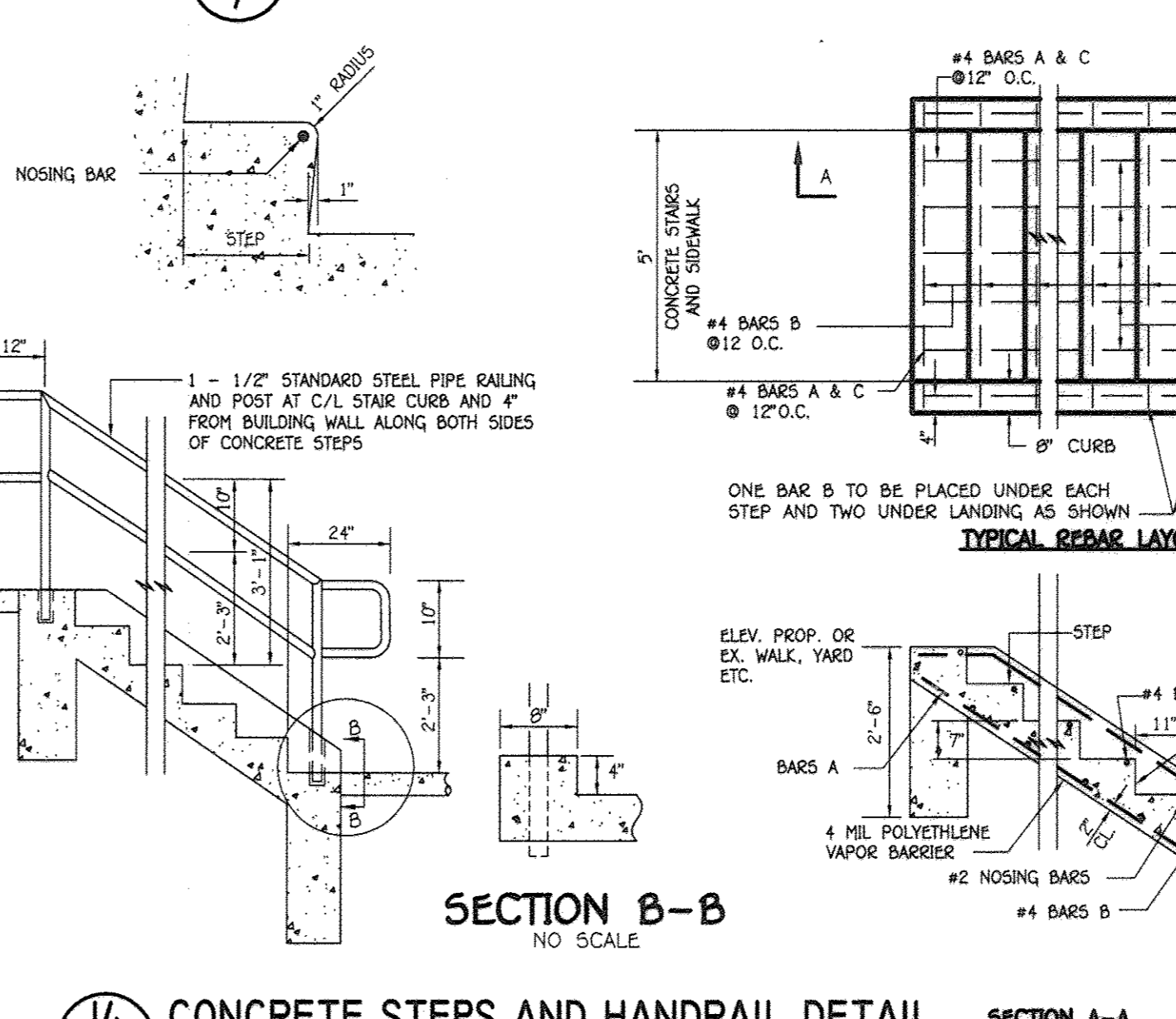


13 EXISTING ROADWAY WIDENING STRIP (R-1.08)
NO SCALE

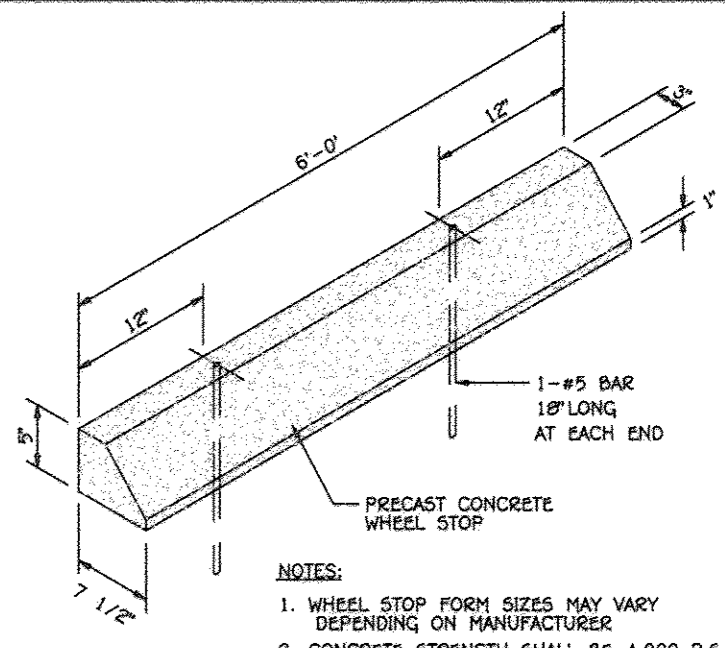
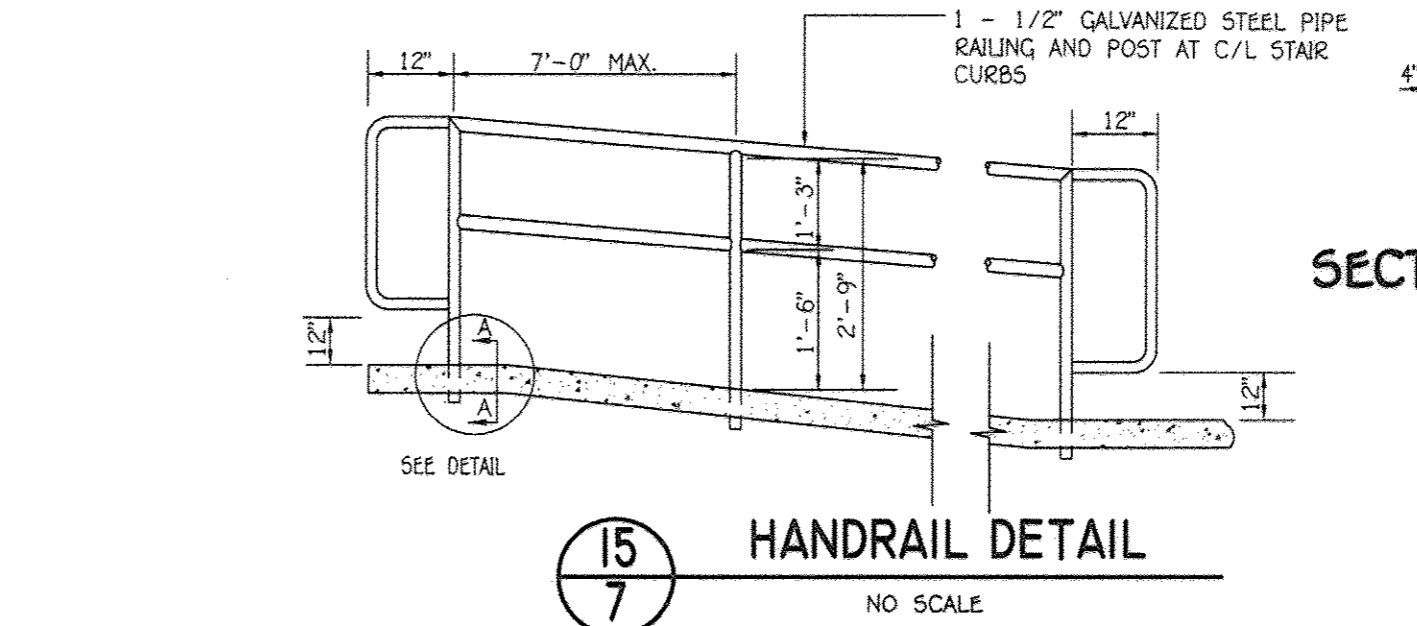


NOTES:
1. WHEN EXISTING TRAVEL LANE IS LESS THAN THE REQUIRED 12' LANE CONTRACTOR SHALL REMOVE A MINIMUM OF 1" FULL DEPTH OF THE EXISTING ROADWAY. IF CURB AND GUTTER IS INSTALLED, PROVIDE A MINIMUM OF 4" OF WIDENING FROM FACE OF GUTTER PAN.
2. THE EXISTING PAVEMENT TO BE RESURFACED SHALL BE MILLED AT DEPTH OF 1 1/2" (MINIMUM).
3. THE RESURFACING SHALL BE PLACED TO THE CENTERLINE OF THE ROADWAY.
4. RESURFACING COURSE TO BE EQUAL TO THE SURFACE COURSE OF THE TYPICAL PAVEMENT SECTION.

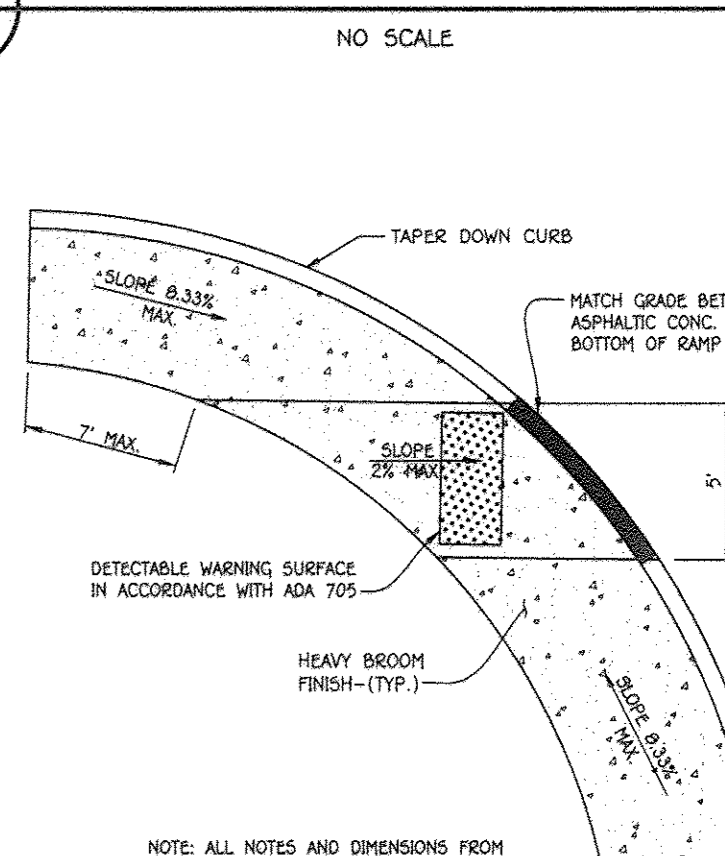
14 CONCRETE STEPS AND HANDRAIL DETAIL
NO SCALE



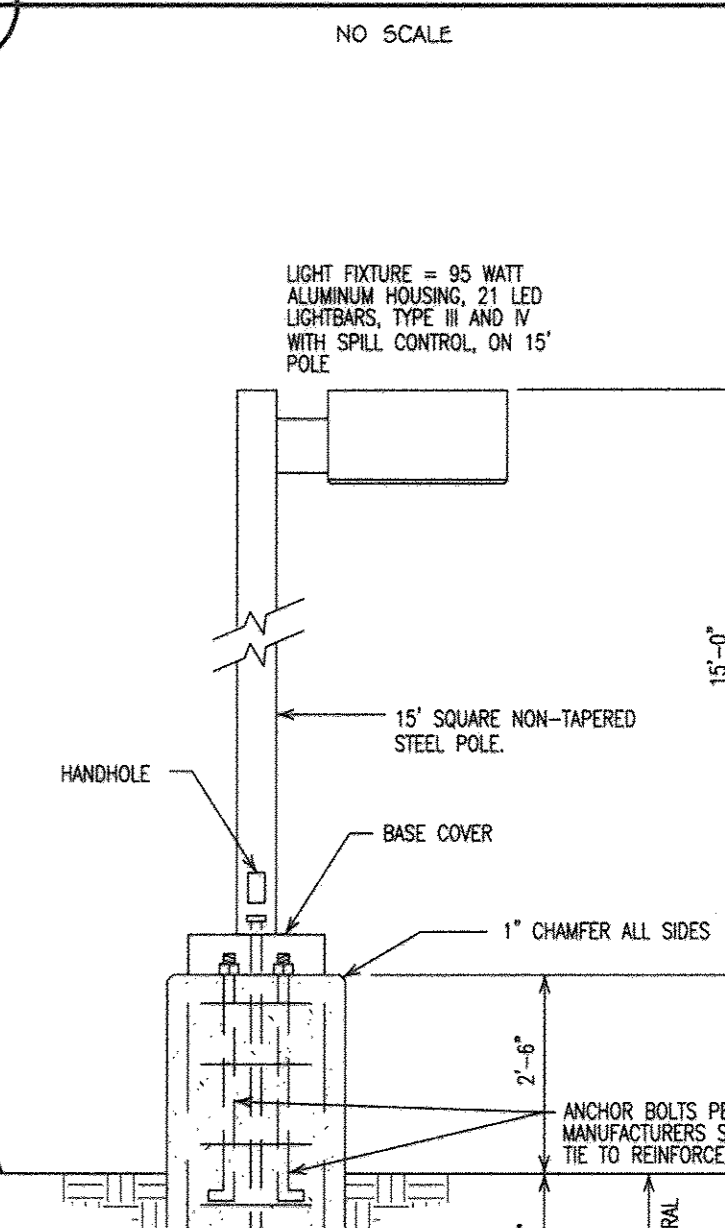
15 HANDRAIL DETAIL
NO SCALE



16 WHEEL STOP DETAIL
NO SCALE



17 SIDEWALK RAMP DETAIL
NO SCALE



18 LIGHTING FIXTURE
NO SCALE

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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
PENTAGONAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2895



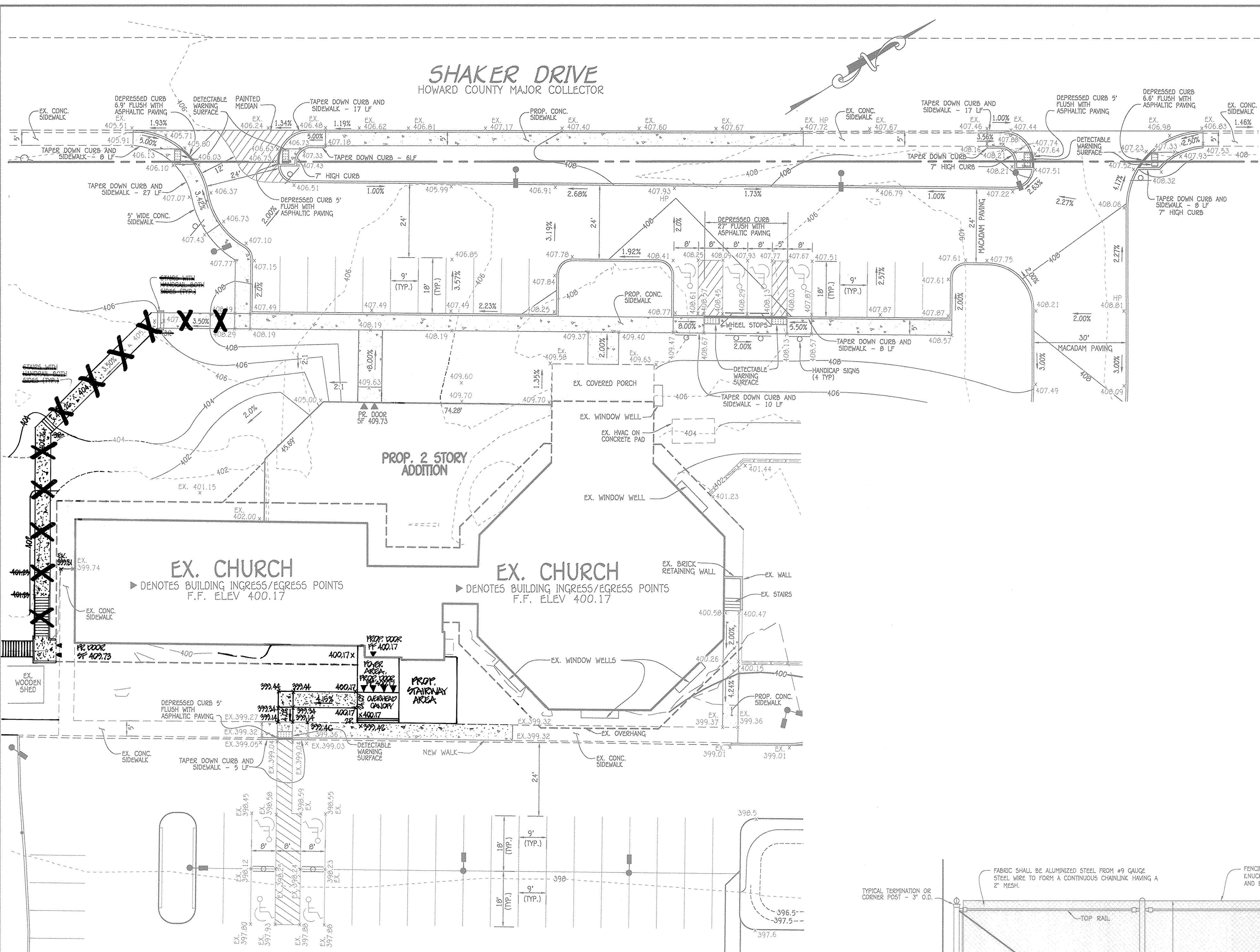
*Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018.
Charles J. Devo, Sr., P.E. 7/19/17

DATE	DESCRIPTION	REVISION BLOCK
	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
	Director - Department of Planning and Zoning	9-6-17 Date
	Chief, Division of Land Development	9-6-17 Date
	Chief, Development Engineering Division	9-1-17 Date

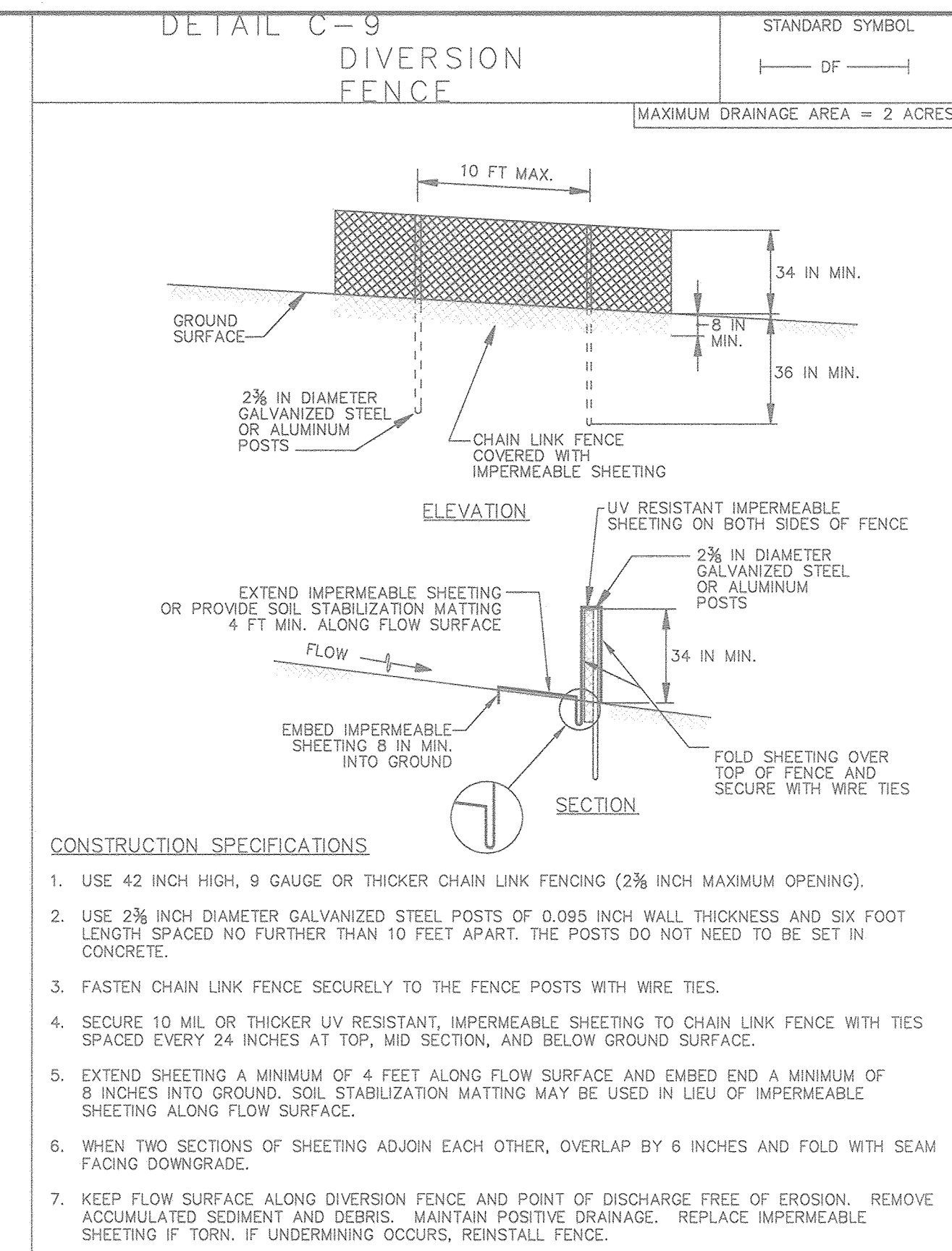
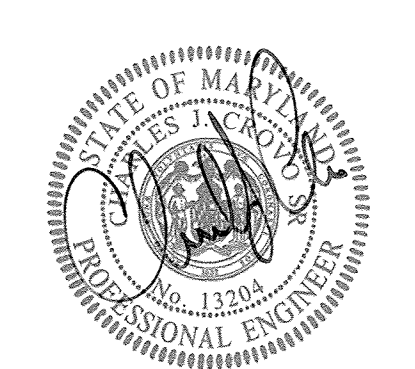
PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART					
LOT/PARCEL#	STREET ADDRESS				
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046				
PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION	LOT NOS.			
ALLVIEW ESTATES	3	22			
PLAT# OR L/F	GRID#	ZONING	TAX MAP#	ELECT. DISTR.	CENSUS TRACT
23057	13	R-20	36	SIXTH	6067.01

DETAIL SHEET
CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22
ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: APRIL 12, 2017
SHEET 7 OF 19



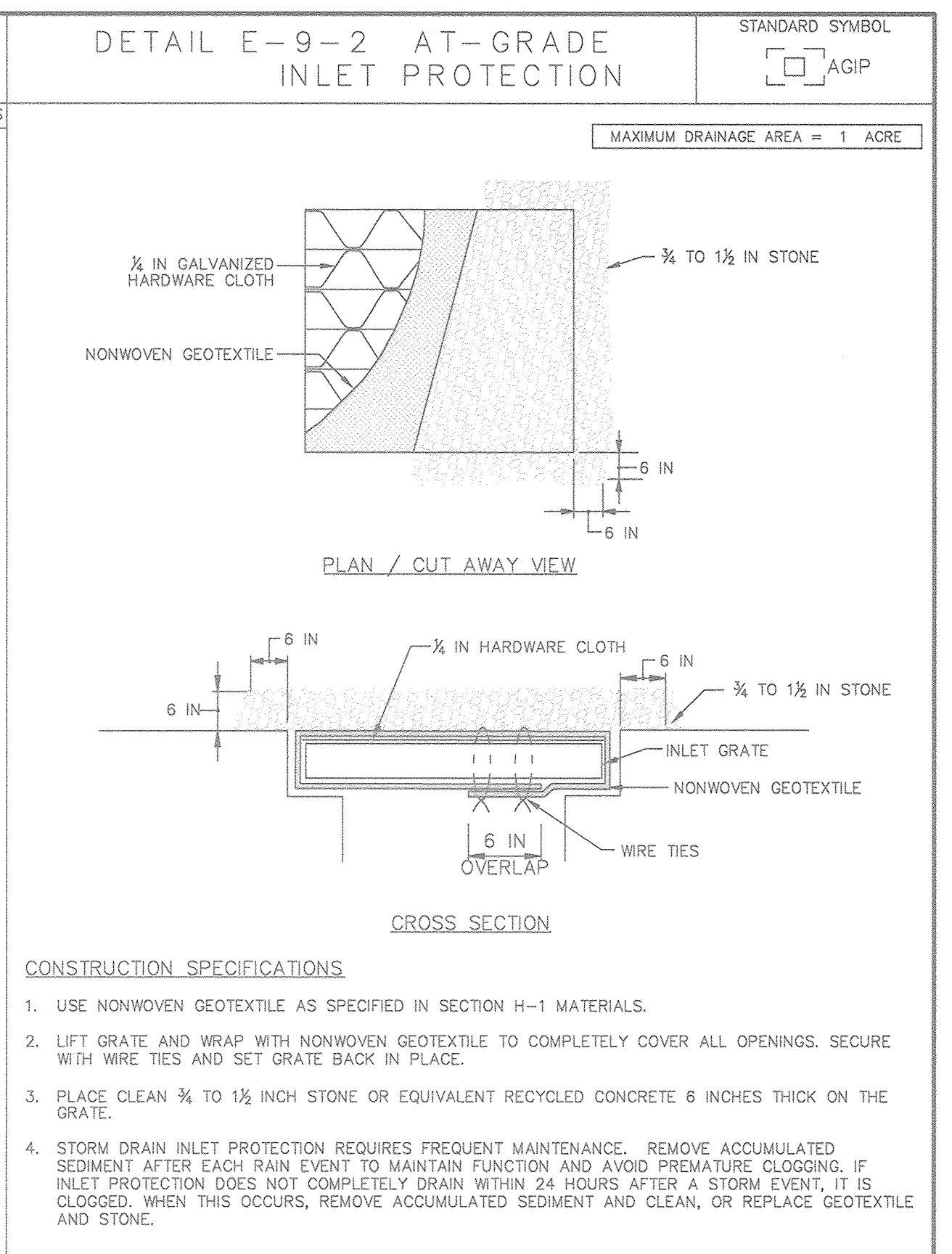
LEGEND	
SYMBOL	DESCRIPTION
402	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
+ 409.75	SPOT ELEVATION
CONCRETE WALK	PROPOSED CONCRETE WALK



- CONSTRUCTION SPECIFICATIONS**
- USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2 1/2 INCH MAXIMUM OPENING).
 - USE 2 3/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
 - FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
 - SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.
 - EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
 - WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNGRADE.
 - KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

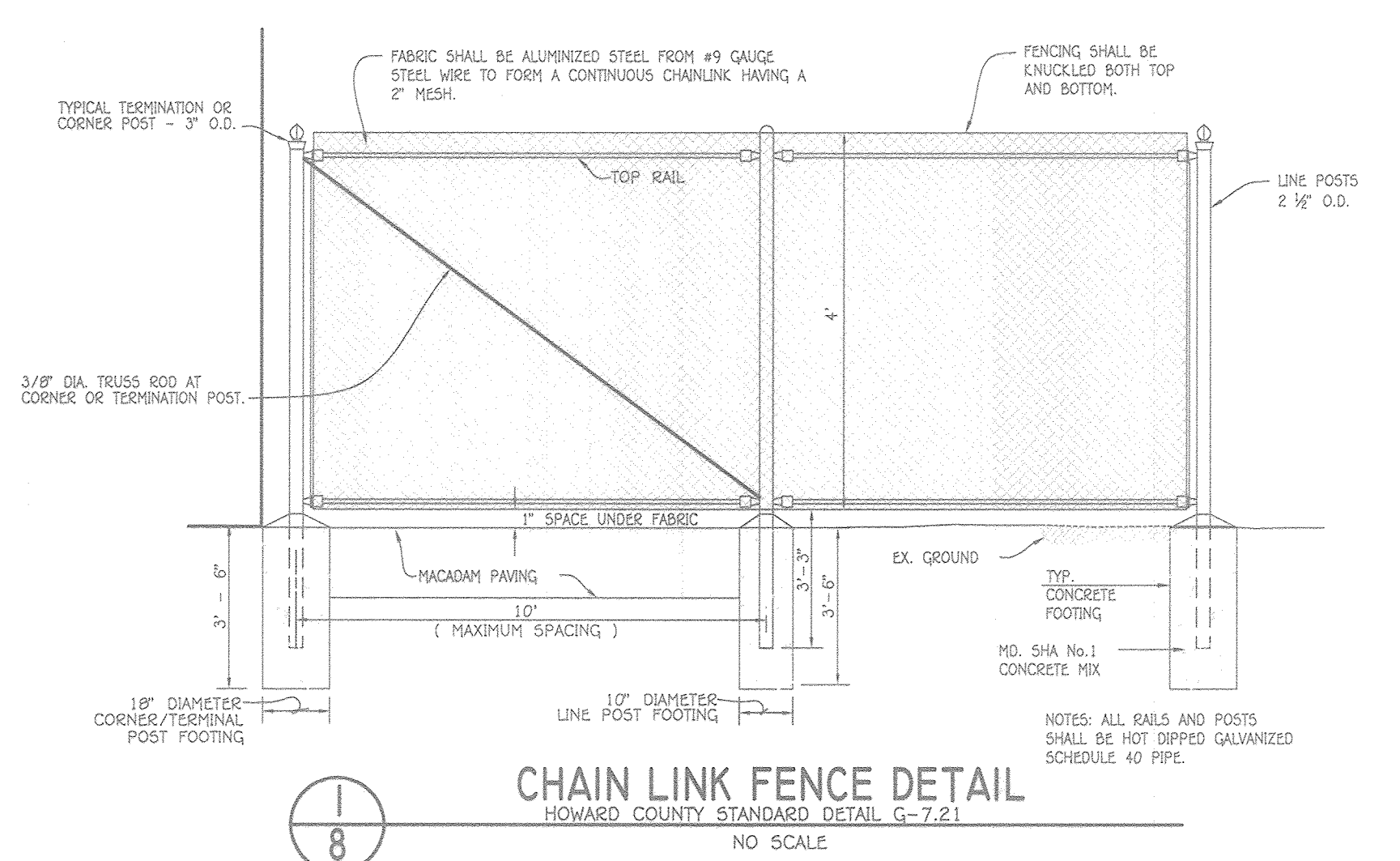
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---



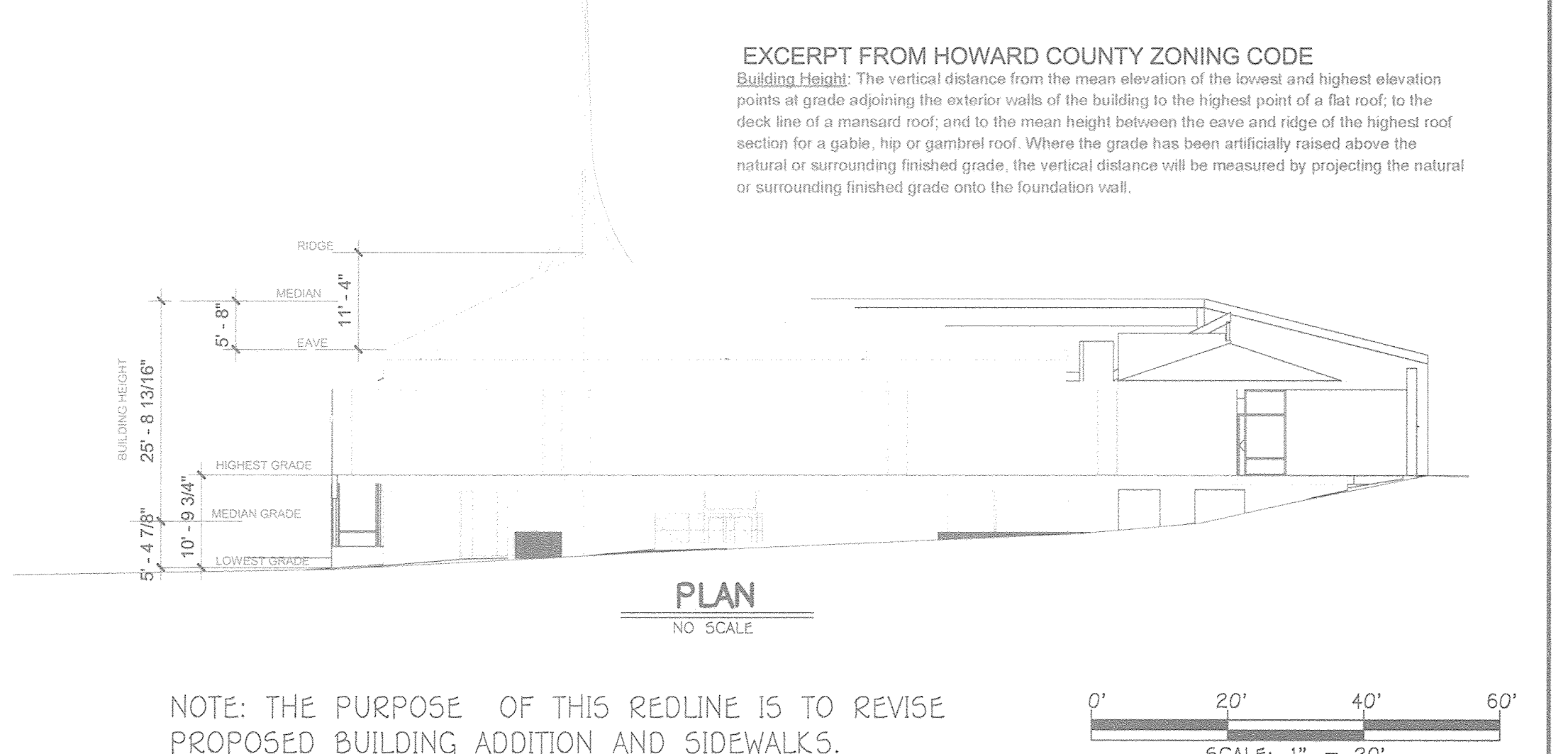
- CONSTRUCTION SPECIFICATIONS**
- USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
 - LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
 - PLACE CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
 - STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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CHAIN LINK FENCE DETAIL HOWARD COUNTY STANDARD DETAIL G-7.21 NO SCALE



NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING ADDITION AND SIDEWALKS. SCALE: 1" = 20'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2995

ENGINEER'S CERTIFICATE
"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer: *Charles J. Cravo, Sr.* Date: 04/10/18

DEVELOPER'S CERTIFICATE
"I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature of Developer: *Robert Jenkins* Date: 4/10/18

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2018."
Signature: *Charles J. Cravo, Sr.* Date: 04/10/18
CHARLES J. CRAVO, SR., P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature: *John L. Kruttschnitt* Date: 4/10/18
Howard SCD

DATE	DESCRIPTION
11/4/19	REVISE SIDEWALK & ADD BIT. LINED TO PARKING ISLANDS
11/1/18	RELOCATED STAIRWAY AND SIDEWALK TO SECOND FLOOR
9/20/18	REMOVED WINDOW WELLS AND REVISED 2' SIDEWALKS/PORCH
2/27/18	REV. BLDG. ADDITIONS, SIDEWALKS AND GRADING.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Signature: *Walter J. J. J.* Date: 4-24-18
Director - Department of Planning and Zoning

Signature: *Robert Jenkins* Date: 4-24-18
Chief, Division of Land Development

Signature: *Walter J. J. J.* Date: 4/24/18
Chief, Development Engineering Division

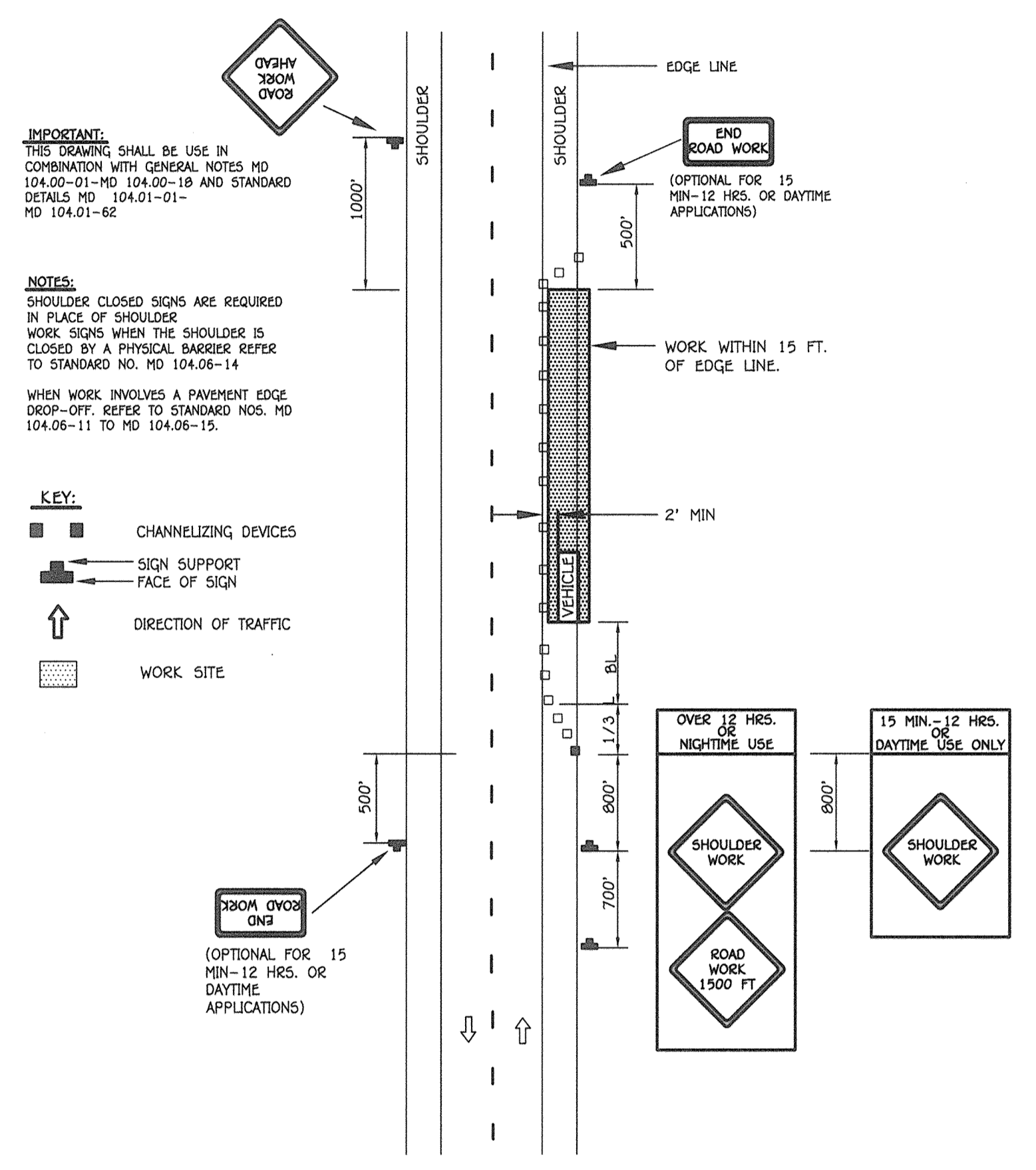
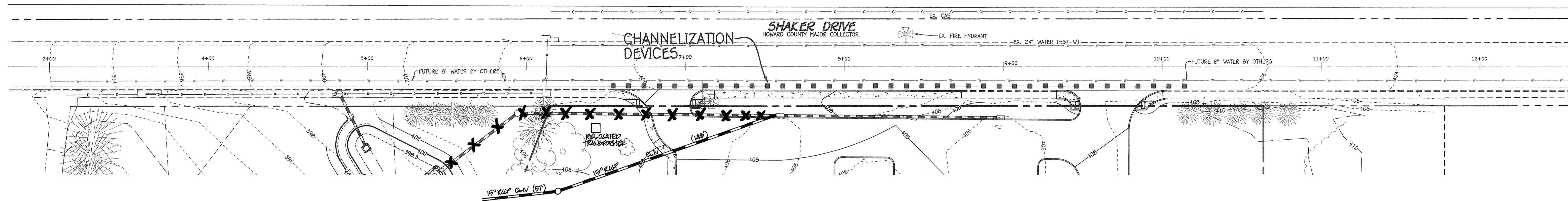
PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F#	ZONING	TAX MAP#	ELECT. DISTR.
23057	R-20	36	SIXTH
CENSUS TRACT	6067.01		

HANDICAP ACCESS PLAN, BUILDING ELEVATION AND SEDIMENT CONTROL DETAILS
REVISED SITE DEVELOPMENT PLAN
CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22
ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: APRIL 12, 2017

SHEET 8 OF 19

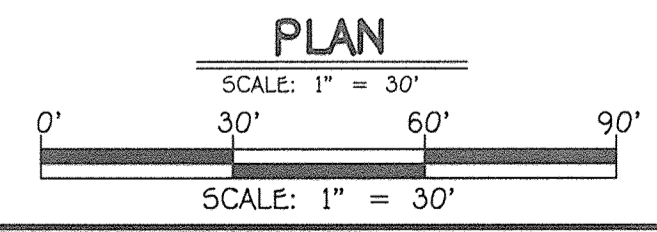


**SHOULDER WORK /2-LANE, 2-WAY
EQL/LESS THAN 40 MPH**
NO SCALE

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN, SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
USE	EXISTING UNDERGROUND ELECTRIC
OHCE	EXISTING OVERHEAD ELECTRIC
G	EXISTING GAS LINE
X	EXISTING FENCE
402	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONCRETE WALK
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED STORMDRAIN

BORING LOG		BORING SWM-1	
PAGE 1 OF 1		PAGE 1 OF 1	
CLIENT: Christ Memorial Presbyterian Church		PROJECT NAME: Christ Memorial Church	
PROJECT LOCATION: Columbia, MD		PROJECT NUMBER: 16789-0	
DATE TESTED: 8/16/16		DATE TESTED: 8/16/16	
RIG: Truck CME 45	METHOD: Hollow Stem Auger	SAMPLER: 2-in OD SS	HAMMER: 140# FALL: 30" AUTO? Yes
DATE STARTED: 8/16/16	COMPLETED: 8/16/16	WATER LEVELS	
DRILLER: Blake Strawdman	HELPER: Kenny Putman, Jr.	ELAPSED TIME	WATER LEVEL
REVIEWED BY: J. Cooper	SITE DELAYS	8/16/16 0:48	12.4
LOCATION: As Staked	BULK SAMPLES	8/16/16 0:48	13.6
			Water: Dry
DEPTH (ft)	SAMPLE TYPE AND NUMBER	WATER LEVEL	REMARKS
			SURFACE EL = Unknown
			Topsoil = 3"
1	S1 5-5-4-3		Moist, Medium Stiff to Stiff, Red Brown Sandy SILT (Fill)
2	S2 2-2-3-5		
3	S3 4-5-5-5		Moist, Loose, Brown Silty SAND, trace Mica
4	S4 7-7-7-7		Moist, Stiff, Brown SILT with mica
5	S5 4-5-6-6		
15	S6 7-6-5		Terminated at 15.0 feet

BORING LOG		BORING SWM-2	
PAGE 1 OF 1		PAGE 1 OF 1	
CLIENT: Christ Memorial Presbyterian Church		PROJECT NAME: Christ Memorial Church	
PROJECT LOCATION: Columbia, MD		PROJECT NUMBER: 16789-0	
DATE TESTED: 8/16/16		DATE TESTED: 8/16/16	
RIG: Truck CME 45	METHOD: Hollow Stem Auger	SAMPLER: 2-in OD SS	HAMMER: 140# FALL: 30" AUTO? Yes
DATE STARTED: 8/16/16	COMPLETED: 8/16/16	WATER LEVELS	
DRILLER: Blake Strawdman	HELPER: Kenny Putman, Jr.	ELAPSED TIME	WATER LEVEL
REVIEWED BY: J. Cooper	SITE DELAYS	8/16/16 0:48	12.0
LOCATION: As Staked	BULK SAMPLES	8/16/16 0:48	13.0
			Water: Dry
DEPTH (ft)	SAMPLE TYPE AND NUMBER	WATER LEVEL	REMARKS
			SURFACE EL = Unknown
			Pavement = 8" Asphalt
1	S1 3-6-7		Moist, Medium Dense, Brown-Gray Silty SAND with Mica (Fill)
2	S2 5-5-7		Moist, Loose to Medium Dense, Gray Silty SAND trace mica
3	S3 5-6-7		USDA: LOAMY SAND
4	S4 10-10		
5	S5 3-5-5		
15	S6 10-31-50/3		Highly Weathered Rock: Moist, Very Dense, Brownish/Gray Silty SAND trace mica
			Terminated at 15.0 feet



I:\2016\16016\Engineering\DWG\SDP\16016-001 SHEET 10 TRAFFIC.dwg, SHEET 10, 6/5/2017 1:37:05 PM, 1:1

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-1289

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018."

Charles J. O'Dowd, Sr.
CHARLES J. ODOWD, SR., P.E.
7/19/17
DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Walter J. Jones
Director - Department of Planning and Zoning
Date: 9-6-17

Walter J. Jones
Chief, Division of Land Development
Date: 9-6-17

Walter J. Jones
Chief, Development Engineering Division
Date: 9-1-17

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

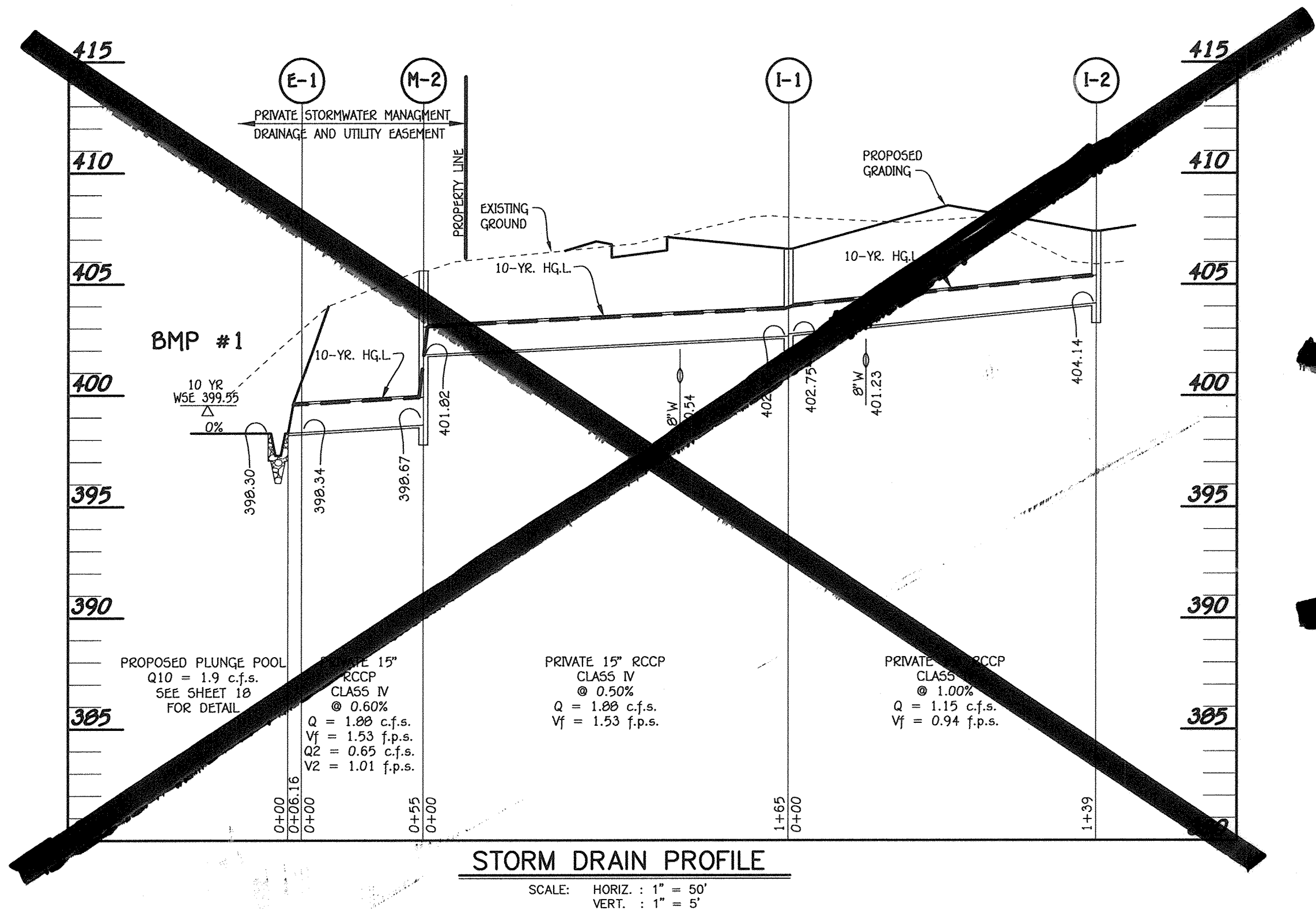
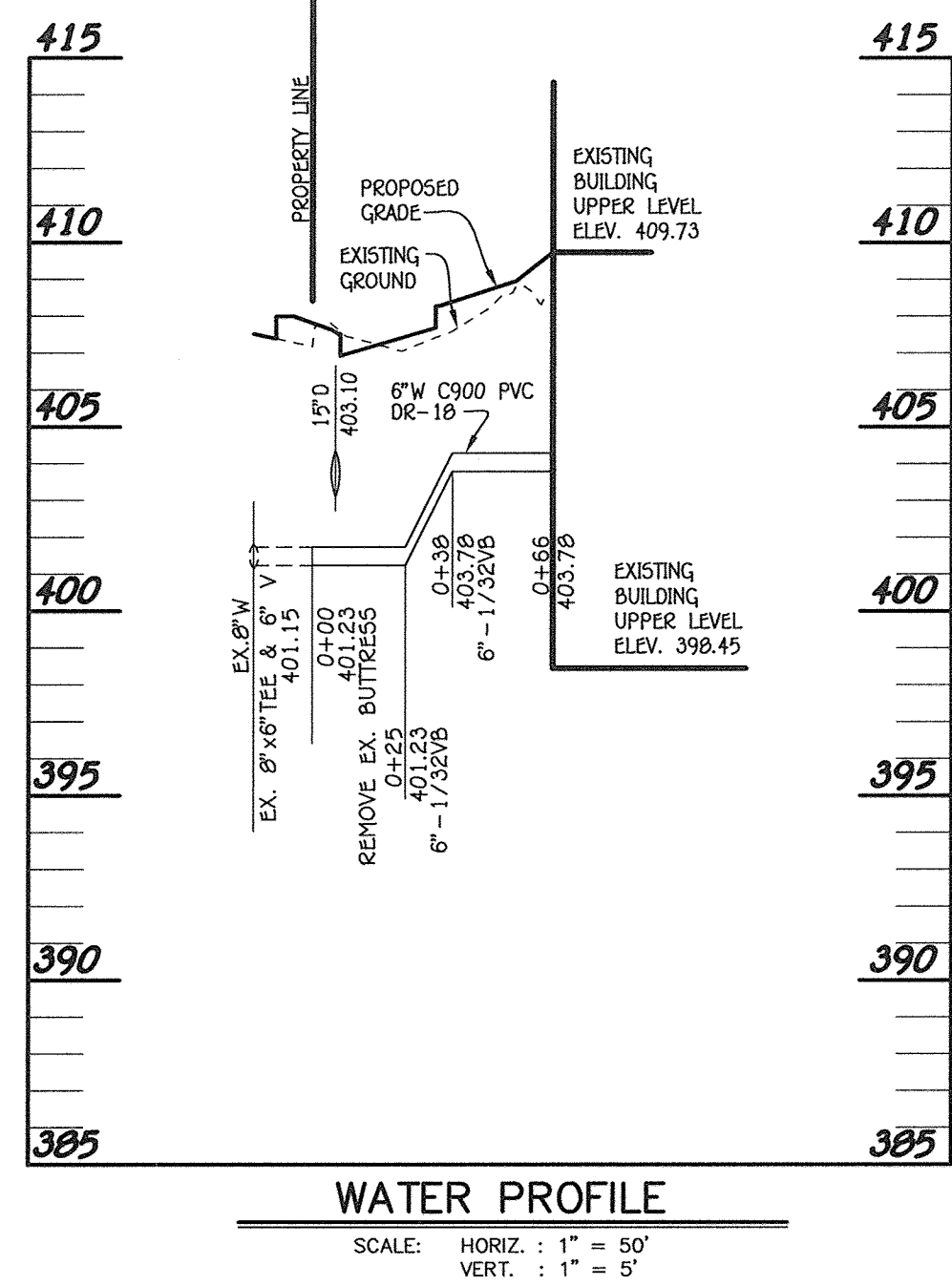
PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F	GRID#	ZONING	TAX MAP#
23057	13	R-20	36
		ELECT. DISTR.	CENSUS TRACT
		SIXTH	6067.01

TRAFFIC MAINTENANCE PLAN AND BORING LOGS

CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL 12, 2017

SHEET 10 OF 19



PIPE SCHEDULE (PRIVATE)

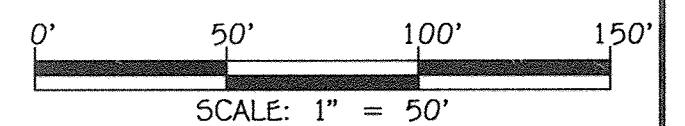
SIZE	CLASS	LENGTH
6"	PERF PVC	266 L.F.
6"	SOLID PVC SCH 40	11 L.F.
6"	SOLID PVC SCH 80	111 L.F.
15"	RCCP, CLASS IV	397 L.F.

STRUCTURE SCHEDULE

STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV. OUT	COORDINATES	TYPE	REMARKS
I-1	PRIVATE	406.99	402.75 (15')	N 111.80 E 1350382.99	2.50' A-5 INLET	D-4.01
I-2	PRIVATE	407.39	-	N 111.80 E 1350457.32	2.50' A-5 INLET	D-4.01
M-1	PRIVATE	400.80	394.59 (15')	N 555884.96 E 1350292.48	4' STD. MANHOLE	G - 5.12
M-2	PRIVATE	406.00	401.82 (15')	N 555973.31 E 1350292.48	4' STD. MANHOLE	G - 5.12
R-1	PRIVATE	399.61	395.30 (6')	N 555881.17 E 1350260.48	3' CONC. END SECTION	SEE SHEET 15

* - DENOTES GRATE ELEVATION

NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING, ADDITION AND SIDEWALKS.



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FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21046
(410) 451-2895



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018."

Charles J. Cravo, Sr.
CHARLES J. CRAVO, SR., P.E.
4/16/18
DATE

11/4/17 **ADD REVISED STORM DRAIN PROFILE & SCHEDULE**
2/27/18 REV. WATER PROFILE.

DATE	DESCRIPTION	REVISION BLOCK
4-24-18		
4-24-18		
4-10-18		

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning
Chief, Division of Land Development
Chief, Development Engineering Division

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART

LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

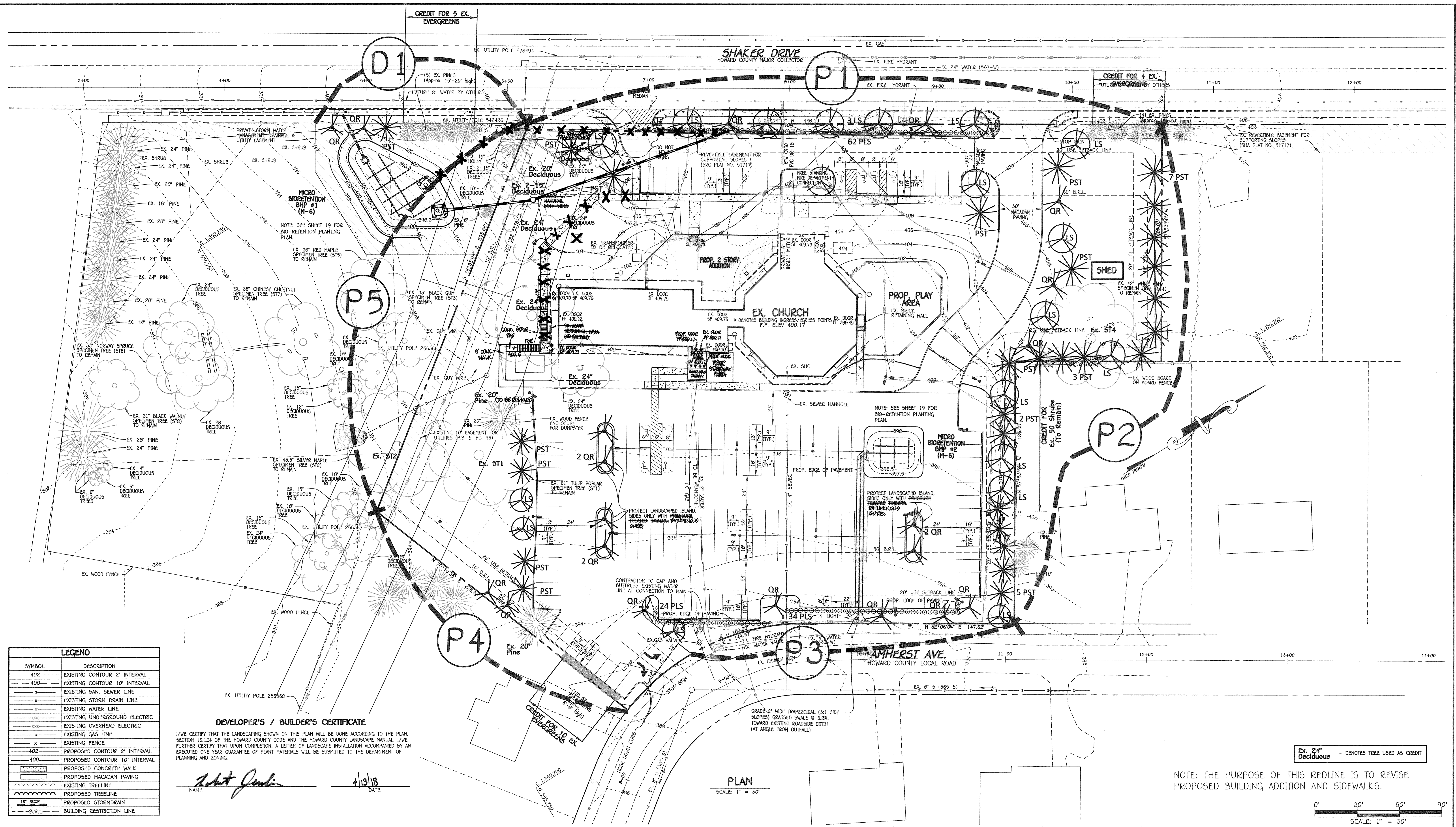
PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION	LOT NOS.
ALLVIEW ESTATES	3	22

PLAT# OR L/F	GRID#	ZONING	TAX MAP#	ELECT. DISTR.	CENSUS TRACT
23857	13	R-20	36	SIXTH	6067.01

STORM DRAIN PROFILE AND STRUCTURE SCHEDULE
REVISED SITE DEVELOPMENT PLAN
CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22
ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: APRIL 12, 2017

SHEET 11 OF 19



LEGEND	
SYMBOL	DESCRIPTION
--- 402 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING GAS LINE
X	EXISTING FENCE
402	PROPOSED CONTOUR 2' INTERVAL
400	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	PROPOSED STORMDRAIN
---	BUILDING RESTRICTION LINE

DEVELOPER'S / BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Robert Jenkins 4/13/18
 NAME DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2995



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018."

Charles J. Gajdo, Sr. 4/11/18
 CHARLES J. GAJDO, SR., P.E. DATE

DATE	REVISION
11/4/10	REMOVE STORM DRAIN, SIDEWALK & ADD BIT. CURB TO PARKING GRADE
11/11/10	RELOCATED STAIRWAY AND SIDEWALK TO SECOND FLOOR
5/9/10	REMOVED WINDOW WALL AND REPAVED 2 STORY STAIRWAY WALK
2/27/10	REV. BLDG. ADDITIONS, SIDEWALKS, WATER SERVICE LINE, TRANSFORMER RELOCATION, EX. FIRE HYDRANT LOCATION AND GRADING.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director - Department of Planning and Zoning 4-29-18
 Chief, Division of Land Development 4-28-18
 Chief, Development Engineering Division 4/19/18

PREPARED FOR
 CHRIST MEMORIAL PRESBYTERIAN CHURCH
 6410 AMHERST AVENUE
 COLUMBIA, MARYLAND 21046
 ATTENTION: REV. SCOTT W. HOFFMAN
 410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F	ZONING	TAX MAP#	ELECT. DISTR.
23057	13	R-20	36
			SIXTH
			CENSUS TRACT
			6067.01

LANDSCAPE PLAN

REVISED SITE DEVELOPMENT PLAN
CHRIST MEMORIAL PRESBYTERIAN CHURCH
 ALLVIEW ESTATES
 SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
 TAX MAP No.: 36 GRID No.: 13
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: APRIL 12, 2017

SHEET 12 OF 19

NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING ADDITION AND SIDEWALKS.

SCALE: 1" = 30'

SCHEDULE A PERIMETER LANDSCAPE EDGE (P-#)					
PERIMETER	P1	P2	P3	P4	P5
CATEGORY	Buffer - Parking Adj. To Roadway	Buffer - Non. Res. To Residential	Buffer - Parking Adj. To Roadway	Buffer - Non. Res. To Residential	Buffer - Non. Res. To Non. Res.
LANDSCAPE TYPE	E	C	E	C	A
LINEAR FEET OF PERIMETER	448'	455.4'	232.6'	226.3'	293.7'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 4 Ex. Evergreens	YES 50 Shrubs & Ex. 42" Tree	NO	YES 11 Ex. Evergreens	YES 9 Shade Trees 1 Evergreen Tree
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED)	NO	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED					
SHADE TREES	11	11	6	6	5
ORNAMENTAL TREES	-	-	-	-	-
EVERGREEN TREES	-	23	-	11	-
SHRUBS	112	-	50	-	-
NUMBER OF PLANTS PROVIDED					
SHADE TREES	9*	10**	6	4#	0###
ORNAMENTAL TREES AS 2:1 CREDIT	-	-	-	-	-
EVERGREEN TREES	5	10***	-	4##	-
SHRUBS (10:1 SUBSTITUTION)	62	-	50	-	-

* CREDIT IS TAKEN FOR EXISTING EVERGREENS (4)
 ** CREDIT IS TAKEN FOR EXISTING 42" WHITE ASH (5T4)
 *** CREDIT IS TAKEN FOR EXISTING SHRUBS (50)
 # CREDIT IS TAKEN FOR 4 EXISTING EVERGREENS
 ## CREDIT IS TAKEN FOR 7 EXISTING EVERGREENS
 ### CREDIT IS TAKEN FOR EXISTING TREES

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	151
NUMBER OF TREES REQUIRED (1/20 SP)	8
NUMBER OF TREES PROVIDED	
SHADE TREES	8
OTHER TREES (2:1 SUBSTITUTION)	-

SCHEDULE D (D-1) STORMWATER MANAGEMENT AREA LANDSCAPING	
LINEAR FEET OF PERIMETER	151'
LANDSCAPE TYPE	B
CREDIT FOR EXISTING VEGETATION (NO, YES AND LINEAR FEET)	YES - 5 Evergreens
NUMBER OF TREES REQUIRED	
SHADE TREES	3
EVERGREEN TREES	4
NUMBER OF TREES PROVIDED	
SHADE TREES	2*
EVERGREEN TREES	1**
SHRUBS (10:1 SUBSTITUTION)	-

* CREDIT IS TAKEN FOR 2 EXISTING EVERGREENS (2:1)
 ** CREDIT IS TAKEN FOR 3 EXISTING EVERGREENS

QTY.	KEY	BOTANICAL NAME COMMON NAME	SIZE	CONT.	REMARKS
TREES - DECIDUOUS SHADE					
19	LS	Liquidambar styraciflua American Sweetgum	2-1/2" - 3" cal.	B & B	Only Seedless Cultivars
20	QR	Quercus Rubra Northern Red Oak	2-1/2" - 3" cal.	B & B	Only Seedless Cultivars
TREES - EVERGREEN					
28	PST	Pinus strobus Eastern White Pine	10'-12'Ht.	B & B	unshaded
SHRUBS					
120	PLS	Prunus laurocerasus 'Schipkaensis' Cherry Laurel	30"-36" Ht.	Cont.	36" o.c.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING TREES (39 SHADE TREES, 28 EVERGREEN TREES, & 120 SHRUBS) SHALL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT WITH THIS SDP IN THE AMOUNT OF \$19,500.00

PLANTING NOTES:
 1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF HOWARD COUNTY CODE AND LANDSCAPE MANUAL AND IS TO BE USED FOR PLANTING ONLY. LANDSCAPING SHALL BE PROVIDED AS SHOWN ON THIS PLAN SHEET. A SURETY IS REQUIRED FOR THIS PROJECT AND SHOWN UNDER THE PLANT LIST ON THIS SHEET.

- CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK. ALL GENERAL NOTES FROM SHEET 1, SHALL APPLY.
- FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING WORK, EVEN WHERE PLANT LOCATIONS ARE DIMENSIONED. CONTACT CONSTRUCTION MANAGER IF ANY RELOCATION ARE REQUIRED.
- PLANT QUANTITIES SHOWN ON PLANT LIST ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL TAKE PRECEDENCE.
- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE A.A.N. SPECIFICATIONS, AND BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED, PAVED OR MULCHED SHALL BE SEEDED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL EXPOSED EARTH WITHIN THE LIMITS OF THE PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH PER PLANTING DETAILS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF SOIL OR DRAINAGE CONDITIONS ARE ENCOUNTERED WHICH MAY BE DETRIMENTAL TO THE GROWTH OF PLANTS.
- NO SUBSTITUTION SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR HIS REPRESENTATIVE. ALL PLANT SUBSTITUTIONS MUST BE REVIEWED BY DPZ PRIOR TO THE SUBSTITUTION BEING MADE.
- REFER TO OTHER SITE DWGS. FOR ADDITIONAL SEEDING REQUIREMENTS.
- NO TREES ARE TO BE PLANTED WITHIN A PUBLIC WATER AND SEWER EASEMENT.
- ANY SHRUBBERY REMOVED OR DAMAGED WITHIN A PUBLIC WATER AND SEWER EASEMENT DURING NORMAL MAINTENANCE ACTIVITIES BY DPW IS NOT THE RESPONSIBILITY OF AND SHALL NOT BE REPLACED BY DPW.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIAL SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- AT THE TIME INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH LANDSCAPE CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST MEET SIZE AND INSTALLATION REQUIREMENTS AS SPECIFIED IN THE LANDSCAPE MANUAL.

PLANTING SPECIFICATIONS
 PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.

ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED, HAVE A VIGOROUS ROOT SYSTEM, AND SHALL CONFORM TO THE SPECIES, SIZE, ROOT AND SHAPE SHOWN ON THE PLANT LIST AND THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN SCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HEALED-IN PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATION SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECT, LATEST EDITION, INCLUDING ALL AGENDA.

CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING WATERING AND REPLACEMENT OF SPECIFIED PLANT MATERIAL.

BID SHALL BE BASE ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.

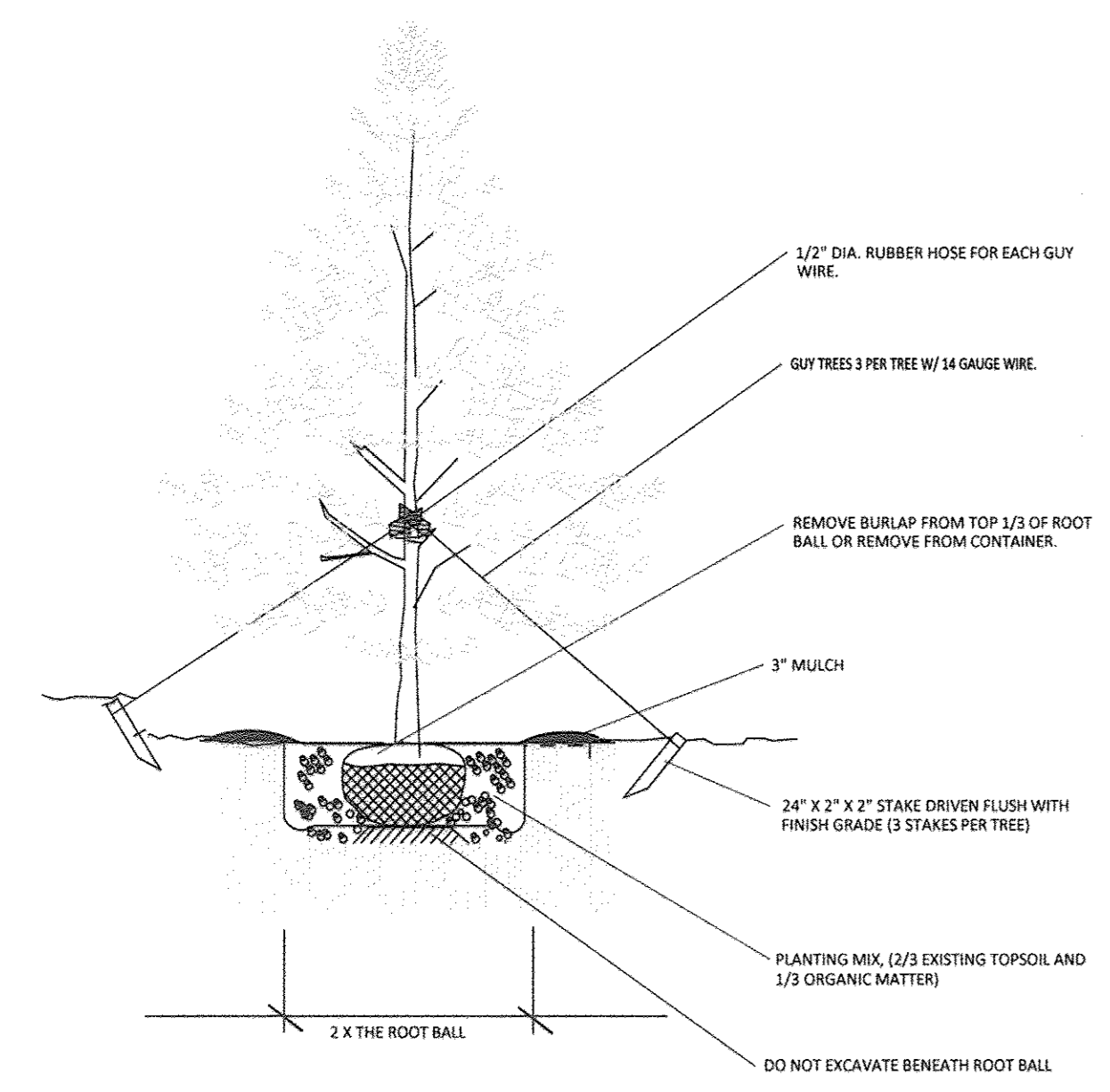
ALL SHRUBS SHALL BE PLANTED IN CONTINUOUS TRENCHES OR PREPARED PLANTING BEDS AND MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILS AND SPECIFIED EXCEPT WHERE NOTED ON PLANS.

POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS 2 PERCENT SLOPE).

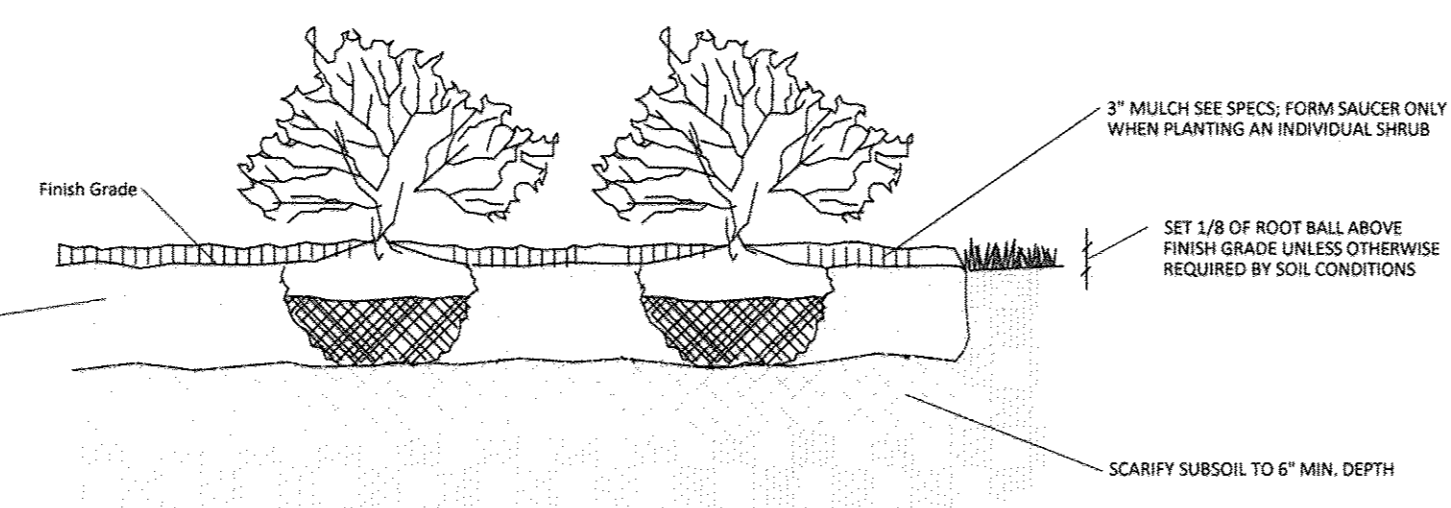
PLANTING MIX SHALL BE AS FOLLOWS: DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE. ADD 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX. EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL. ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX. TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.

WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED.

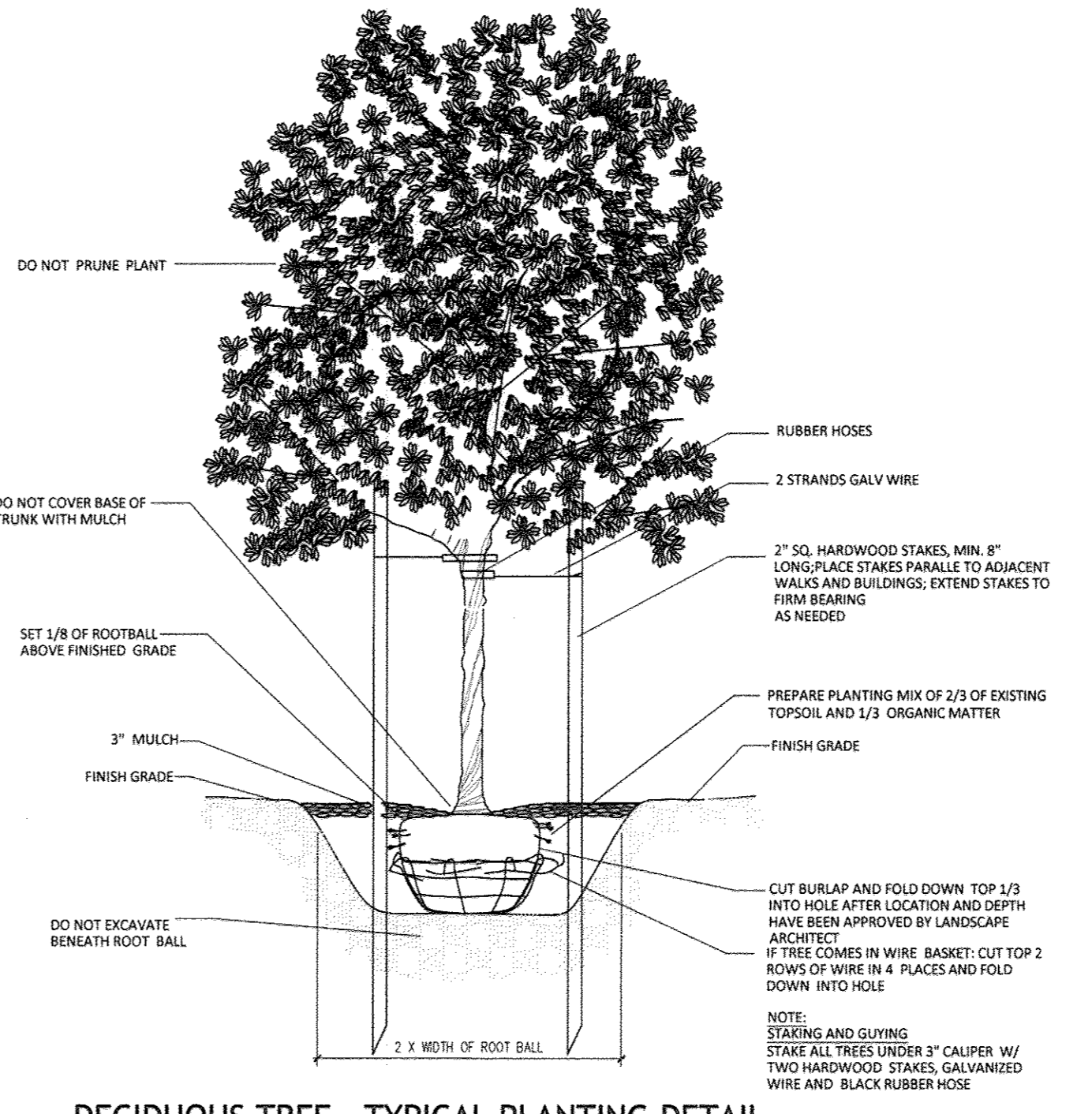
ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED AND SEEDED.



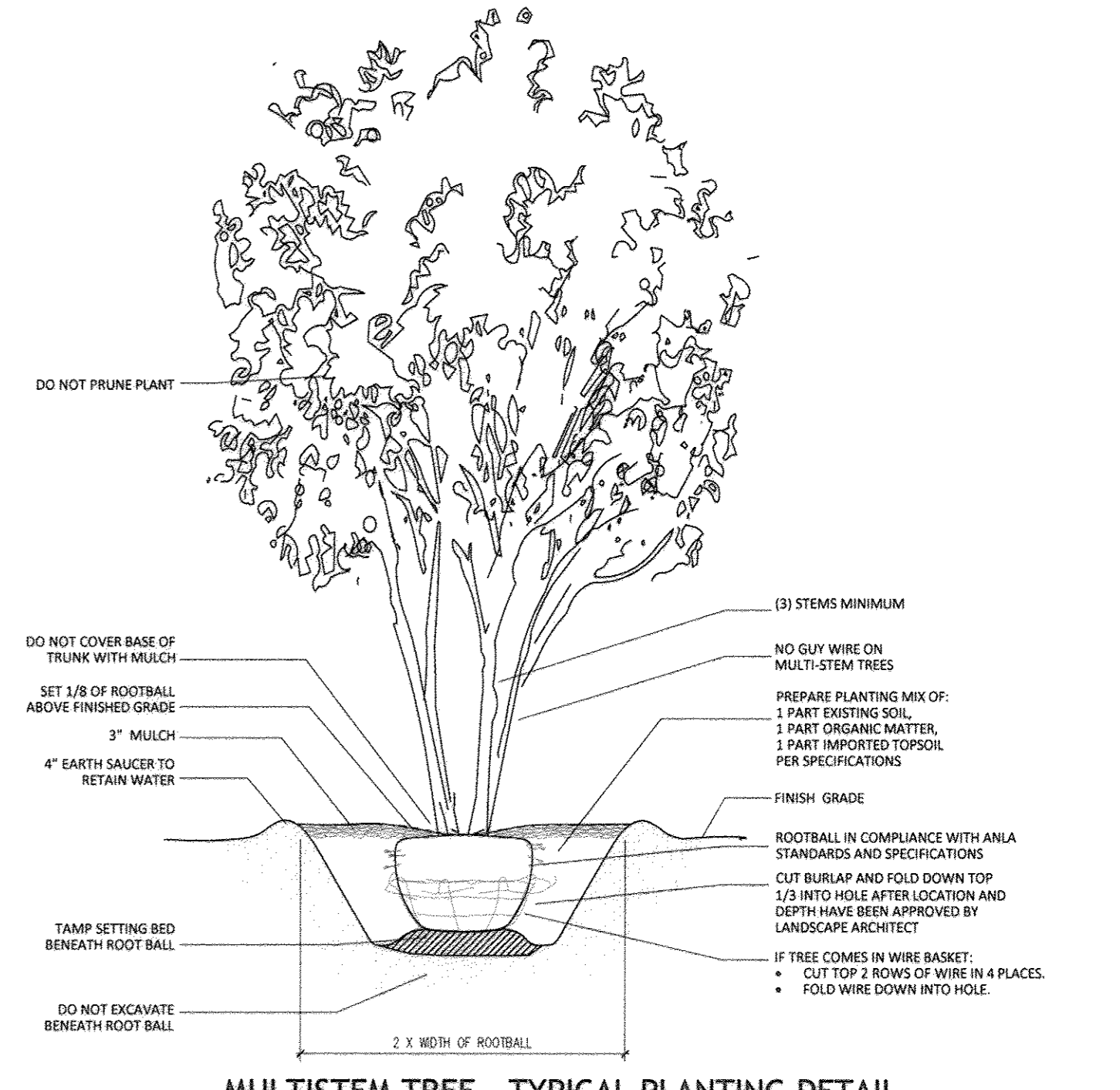
EVERGREEN TREE - TYPICAL PLANTING DETAIL



SHRUB AND HEDGEROW - TYPICAL PLANTING DETAIL



DECIDUOUS TREE - TYPICAL PLANTING DETAIL



MULTISTEM TREE - TYPICAL PLANTING DETAIL

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 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 451 - 2000

DEVELOPER'S / BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Robert J. Jankis
 NAME
 DATE: 7/25/17

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2018."

Charles J. Cepvo, Sr., P.E.
 DATE: 7/19/17

STATE OF MARYLAND PROFESSIONAL ENGINEER

DATE	DESCRIPTION	REVISION BLOCK
9-4-17	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
9-6-17	Director - Department of Planning and Zoning	
9-1-17	Chief, Development Engineering Division	

PREPARED FOR
 CHRIST MEMORIAL PRESBYTERIAN CHURCH
 6410 AMHERST AVENUE
 COLUMBIA, MARYLAND 21046
 ATTENTION: REV. SCOTT W. HOFFMAN
 410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

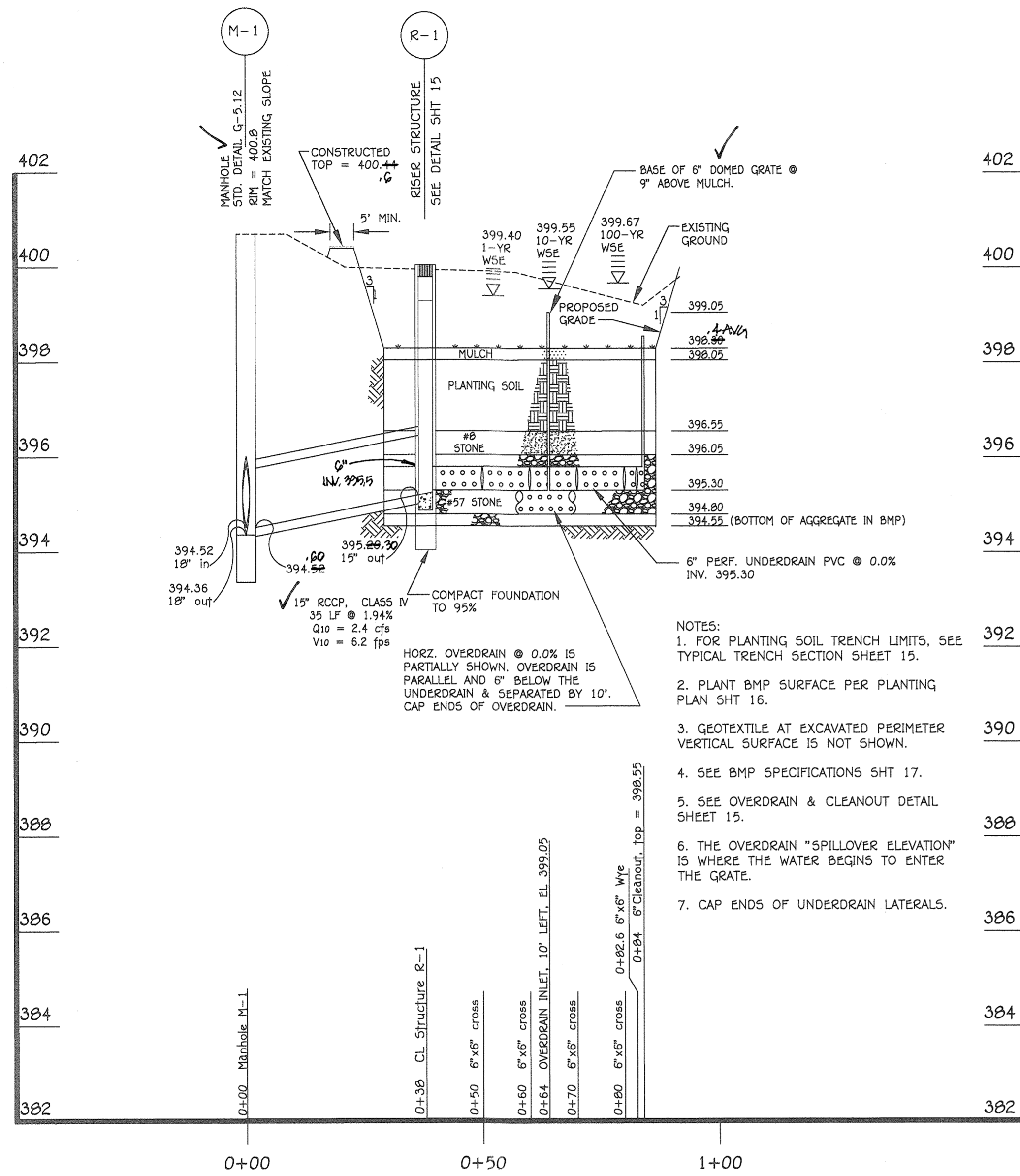
PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F	GRID#	ZONING	TAX MAP#
23057	13	R-20	36
		ELECT. DISTR.	CENSUS TRACT
		SIXTH	6067.01

LANDSCAPE NOTES, DETAILS AND SCHEDULE

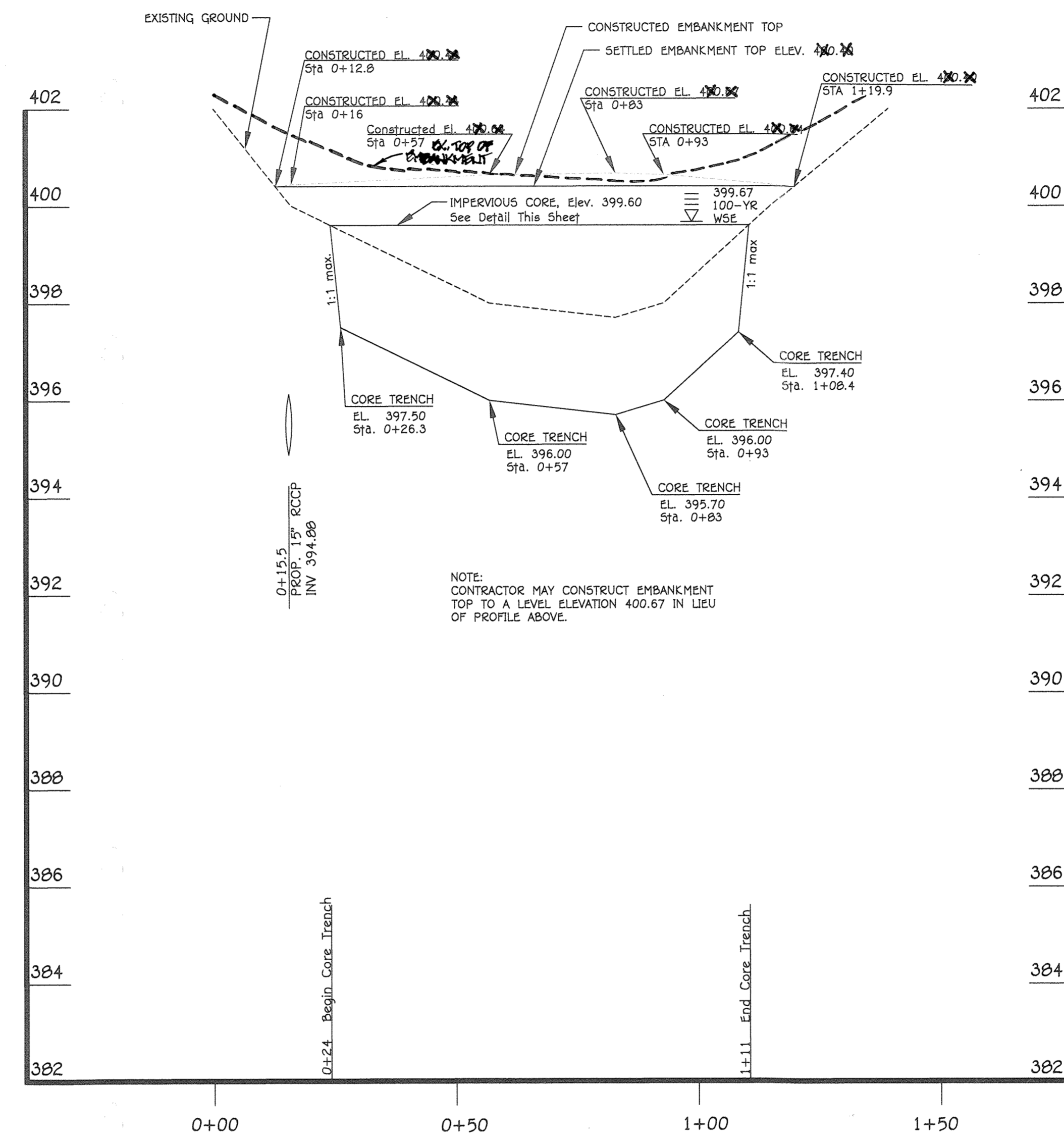
CHRIST MEMORIAL PRESBYTERIAN CHURCH
 ALLVIEW ESTATES
 SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
 TAX MAP No.: 36 GRID No.: 13
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL 12, 2017

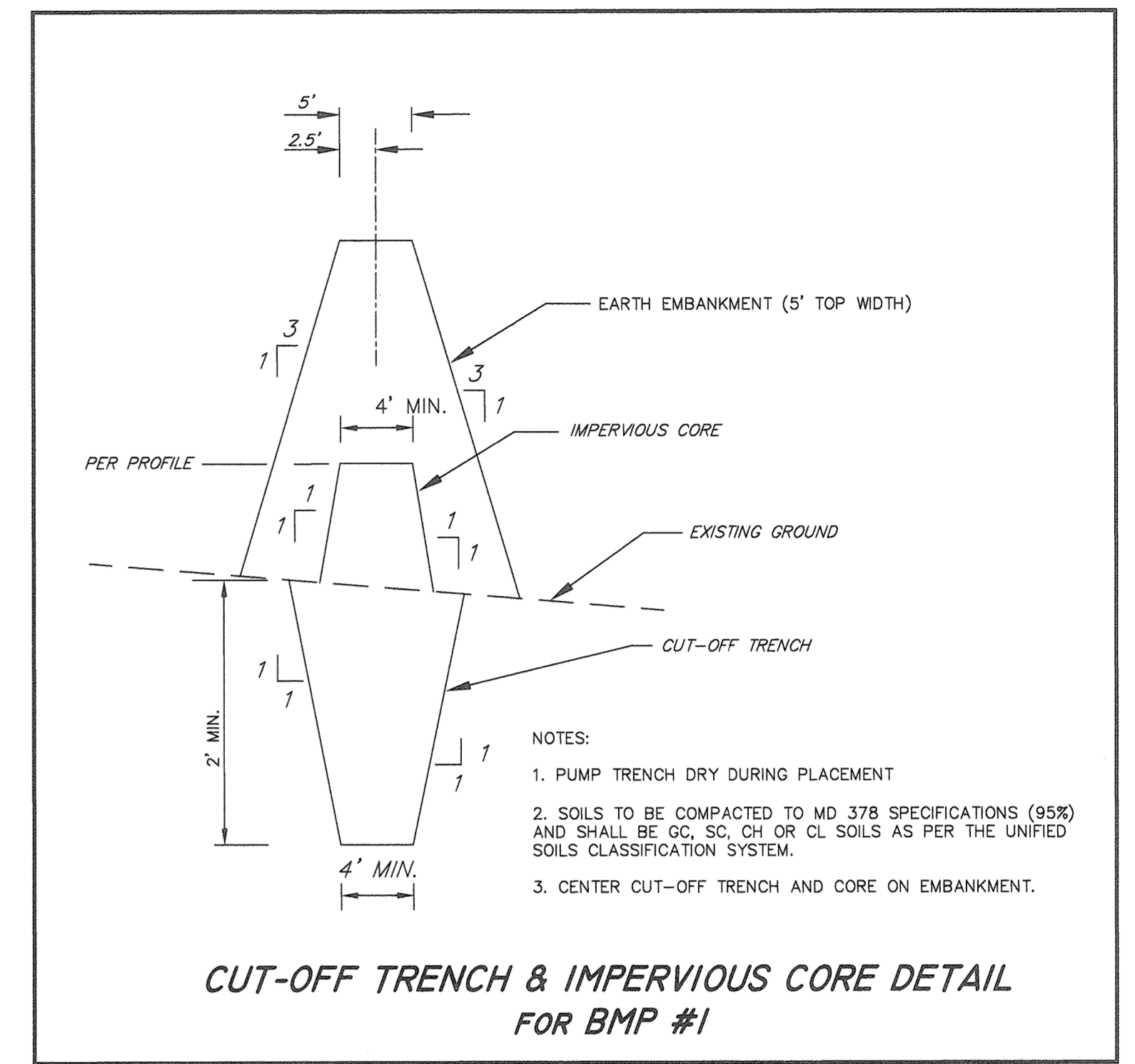
SHEET 13 OF 19



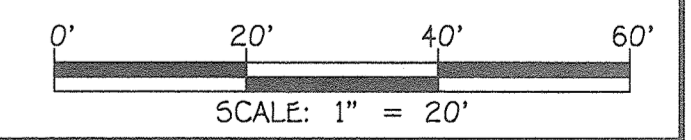
BMP #1 UNDERDRAIN & OUTFALL PROFILE
 SCALE:
 HORIZ. 1" = 20'
 VERT. 1" = 2'



BMP #1 CENTERLINE EMBANKMENT PROFILE
 SCALE:
 HORIZ. 1" = 20'
 VERT. 1" = 2'



CUT-OFF TRENCH & IMPERVIOUS CORE DETAIL FOR BMP #1



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 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2295

AS-BUILT CERTIFICATION FOR PSWMM
 I hereby certify that the facility shown on the plan was constructed as shown on the "AS BUILT" plans and complies with the approved plans and specifications. I have verified that the contributing drainage area is sufficiently stabilized to prevent clogging of the underground PSWMM Facility.

Charles J. Cropp, Sr.
 CHARLES J. CROPP, SR., NO. 13204
 DATE: 11/18/19

AS BUILT
 11/18/19

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2018.

Charles J. Cropp, Sr.
 CHARLES J. CROPP, SR., P.E.
 DATE: 7/19/17

DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Valerie J. Jolin</i>	9-6-17
Director - Department of Planning and Zoning	Date
<i>Scott W. Hoffman</i>	9-6-17
Chief, Division of Land Development	Date
<i>Scott W. Hoffman</i>	9-1-17
Chief, Development Engineering Division	Date

PREPARED FOR
 CHRIST MEMORIAL PRESBYTERIAN CHURCH
 6410 AMHERST AVENUE
 COLUMBIA, MARYLAND 21046
 ATTENTION: REV. SCOTT W. HOFFMAN
 410-997-8011

ADDRESS CHART					
LOT/PARCEL#	STREET ADDRESS				
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046				
PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION	LOT NOS.			
ALLVIEW ESTATES	3	22			
PLAT# OR L/F	GRID#	ZONING	TAX MAP#	ELECT. DISTR.	CENSUS TRACT
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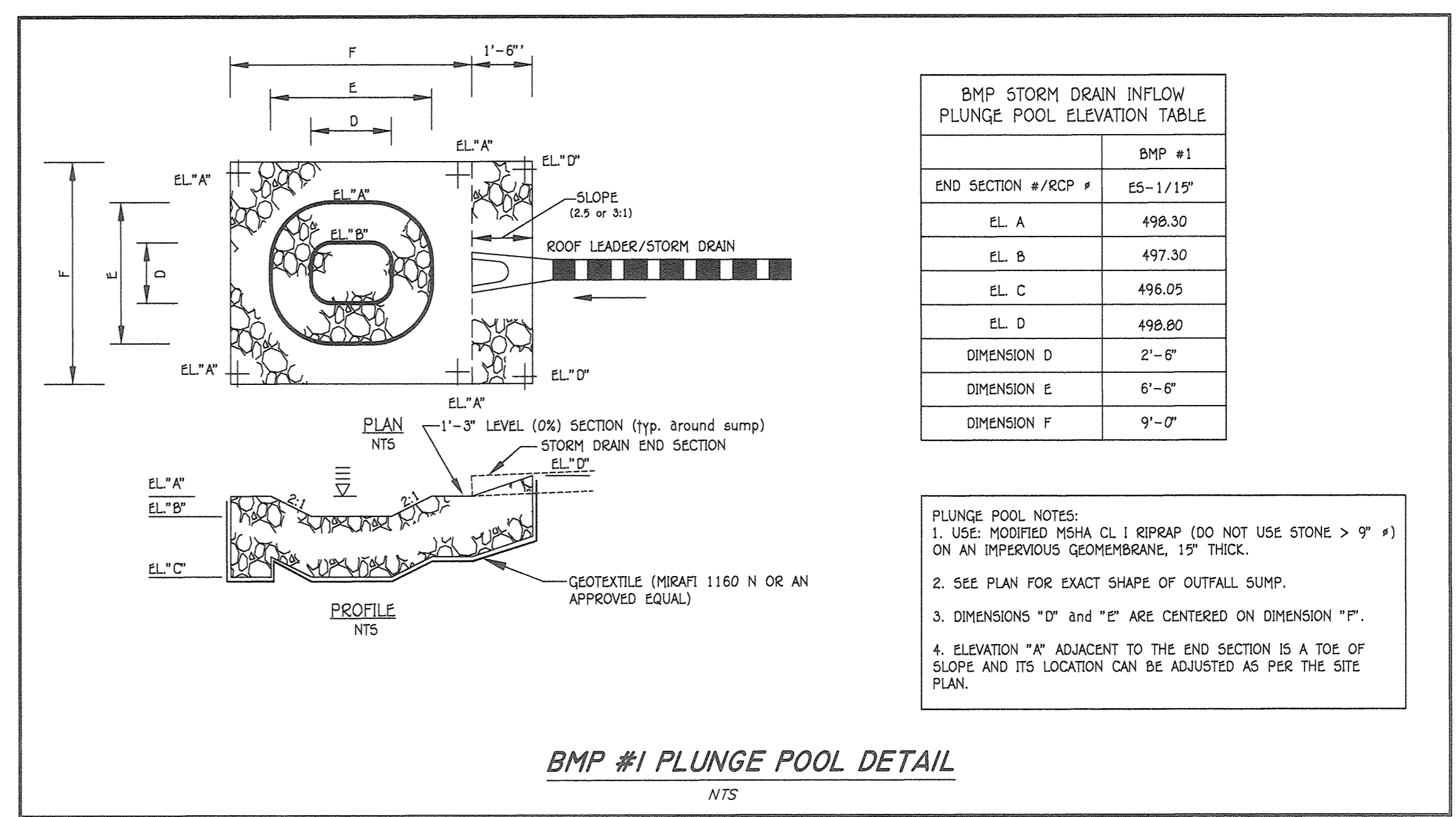
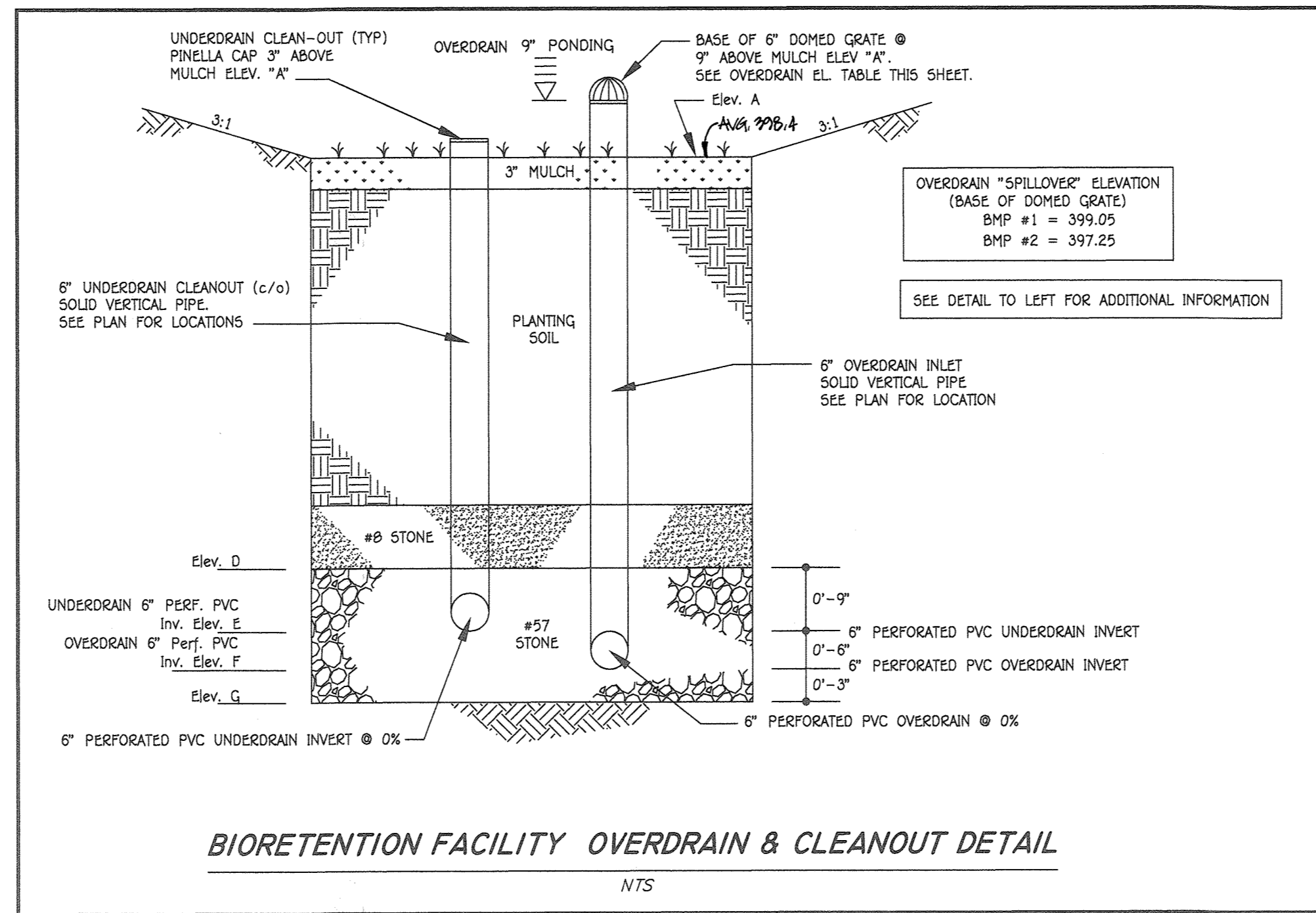
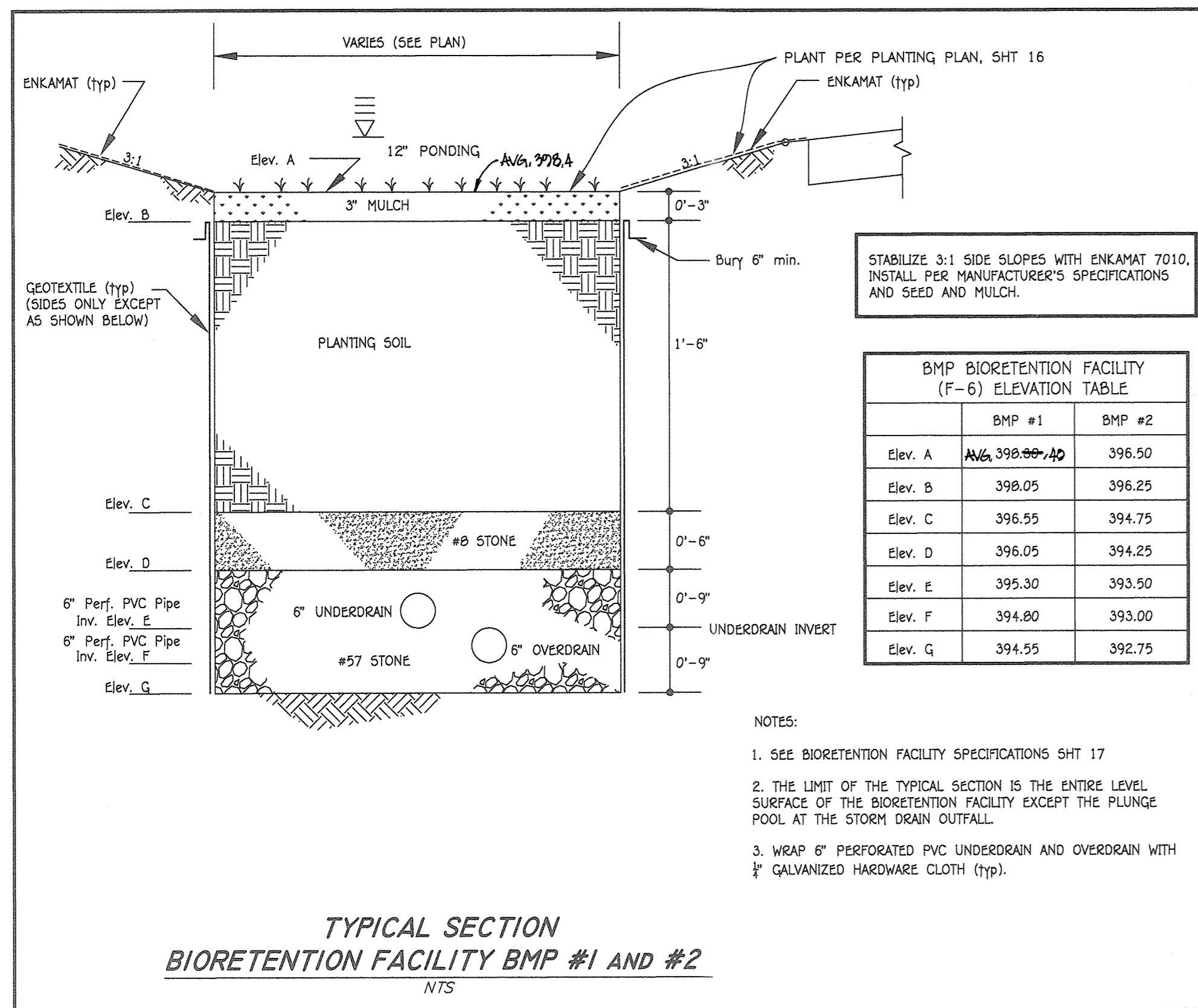
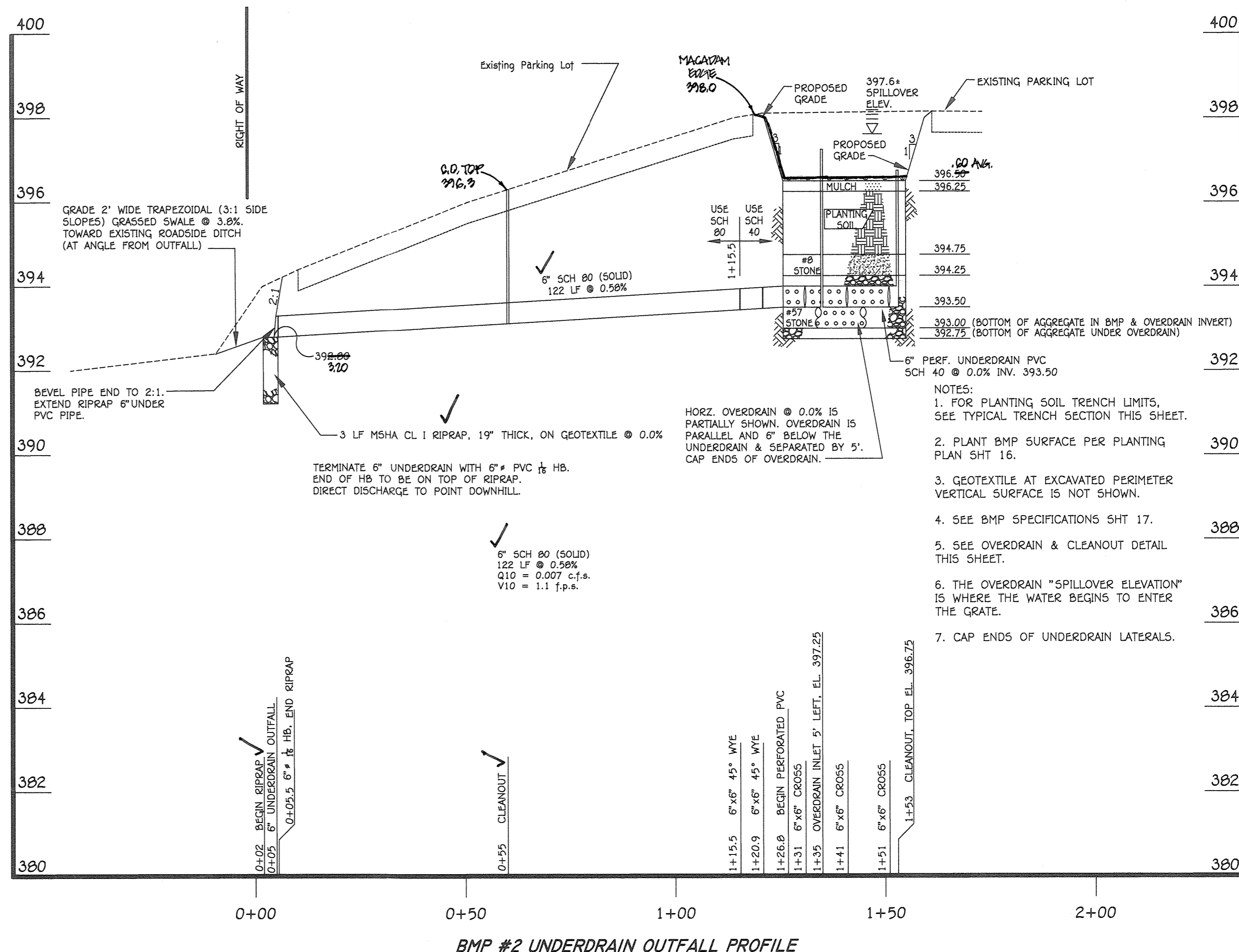
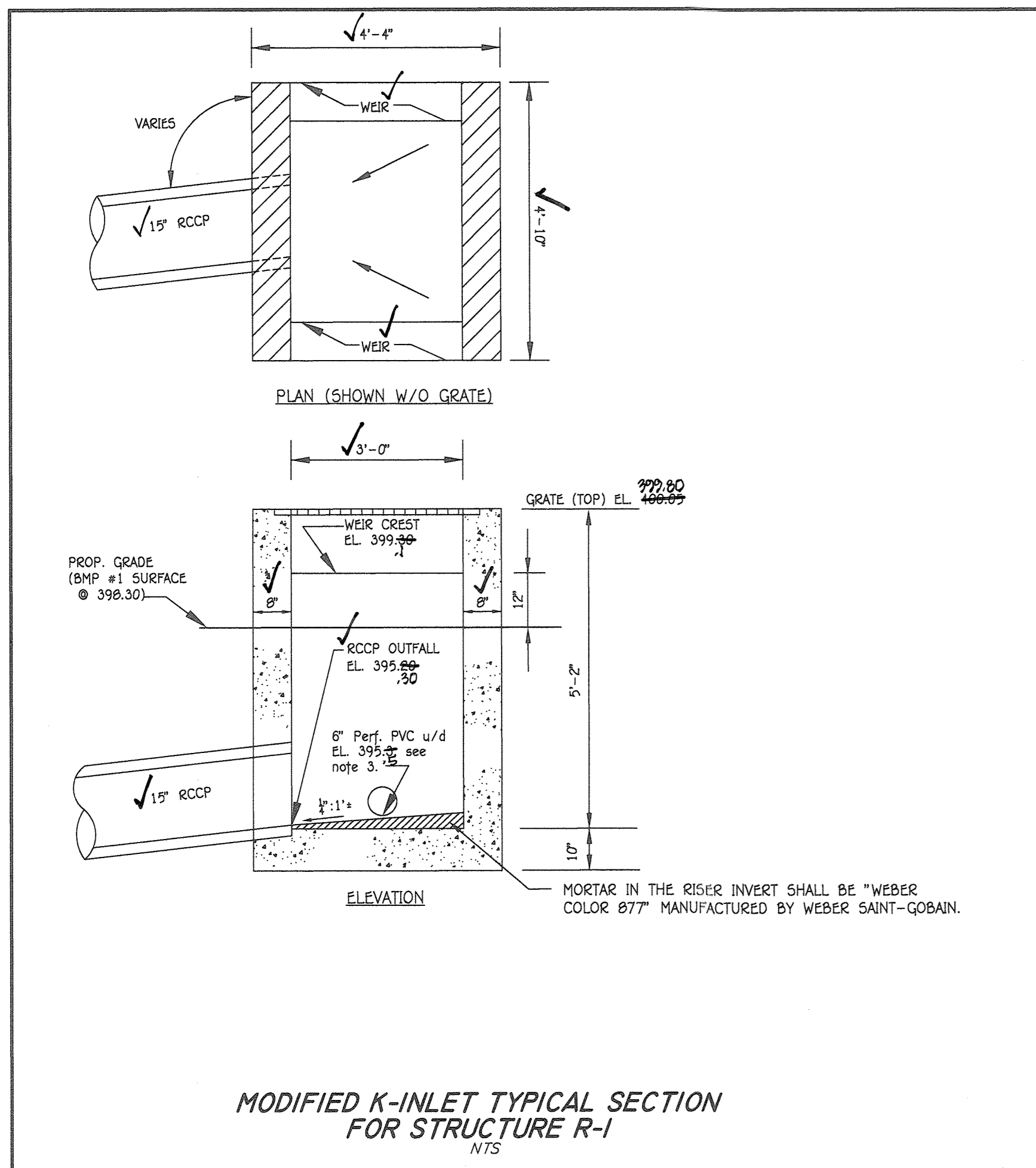
BMP #1 PROFILES

CHRIST MEMORIAL PRESBYTERIAN CHURCH
 ALLVIEW ESTATES
 SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
 TAX MAP No.: 36 GRID No.: 13
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL 12, 2017

SHEET 14 OF 19
 "AS-BUILT" SDP-17-021

I:\2016\16016\Engineering\Drawings\SDP\16016-001 SHEET 14 BIO 1 AND 4.dwg, SHEET 17, 6/5/2017 1:47:30 PM, 1:1



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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21142
(410) 461-7899

AS-BUILT CERTIFICATION FOR PSWM
I hereby certify that the facility shown on the plan was constructed as shown on the "AS BUILT" plans and complies with the approved plans and specifications. I have verified that the contributing drainage area is sufficiently stabilized to prevent clogging of the undersized storm drain facility.

Charles J. Crocco, Sr., P.E.
DATE: 11/18/17

AS BUILT 11/18/17

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018."

Charles J. Crocco, Sr., P.E.
DATE: 11/18/17

SCALE: 1" = 20'

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Valerie J. J. J. 9.6.17
Director - Department of Planning and Zoning
Date

Kate C. C. 9.6.17
Chief, Division of Land Development
Date

John P. P. 9.1.17
Chief, Development Engineering Division
Date

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F	GRID#	ZONING	TAX MAP#
23857	13	R-20	36
ELECT. DISTR.		CENSUS TRACT	
SIXTH		6067.01	

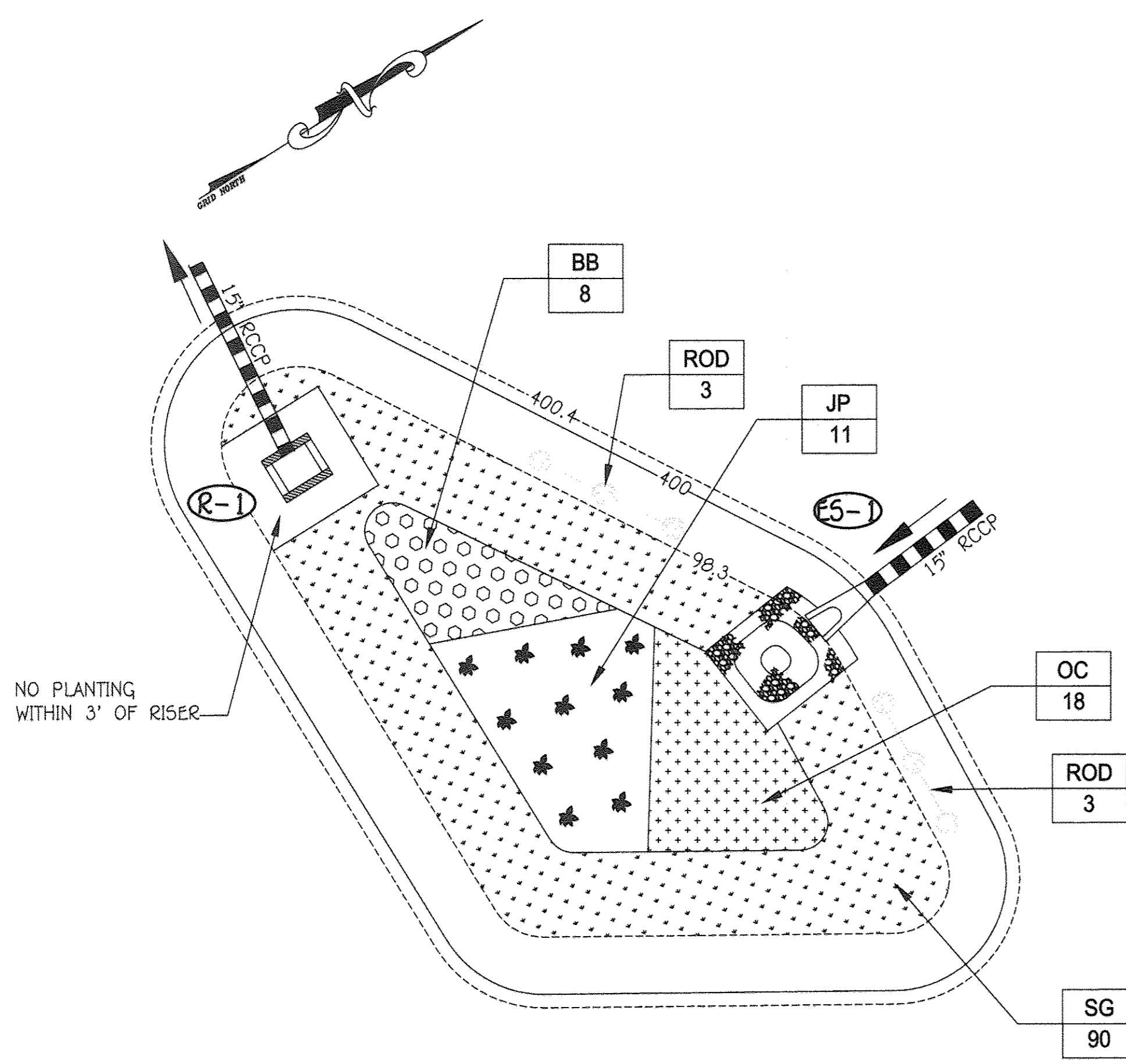
STORMWATER MANAGEMENT BMP DETAILS & BMP #2 PROFILE

CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: APRIL 12, 2017

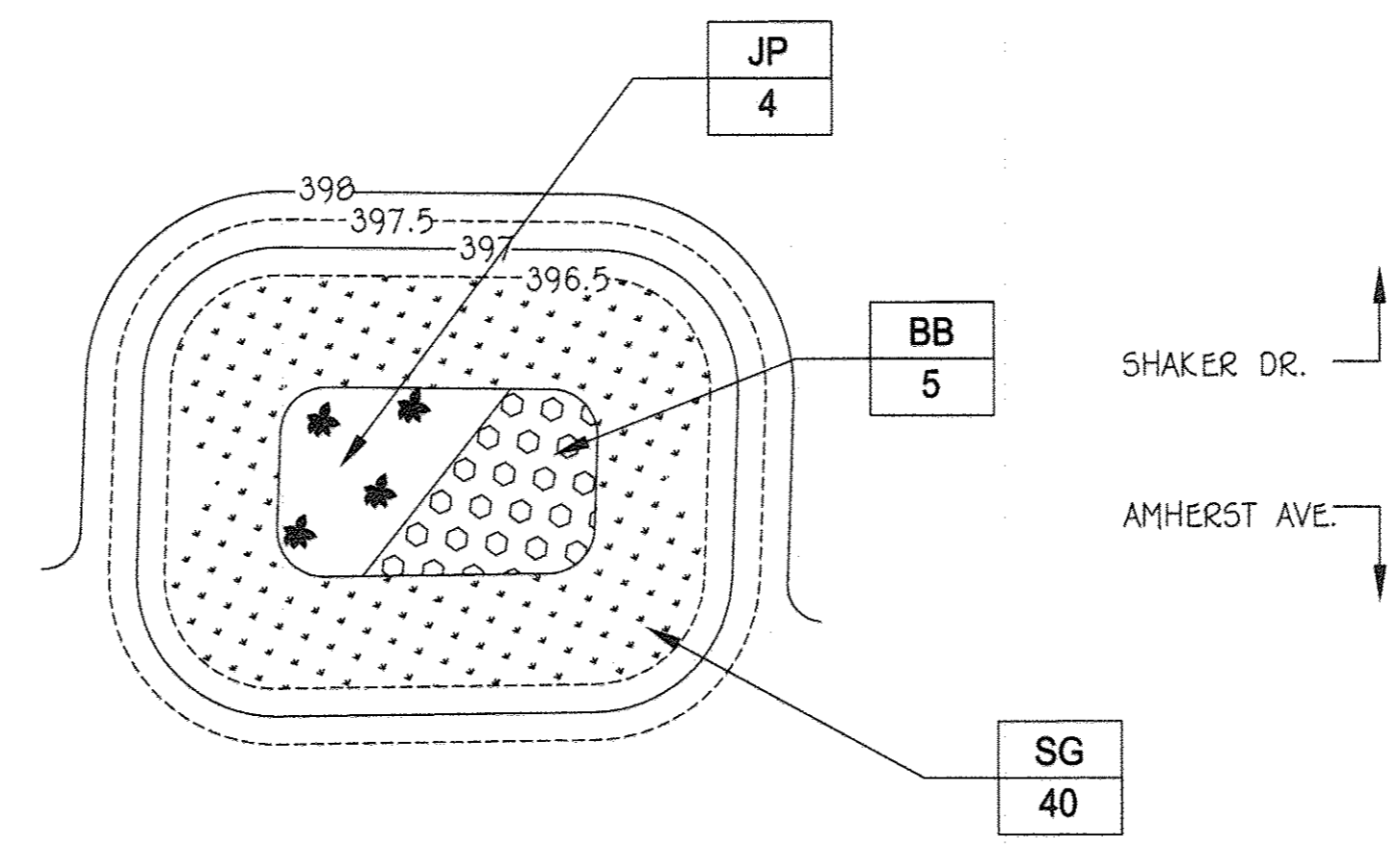
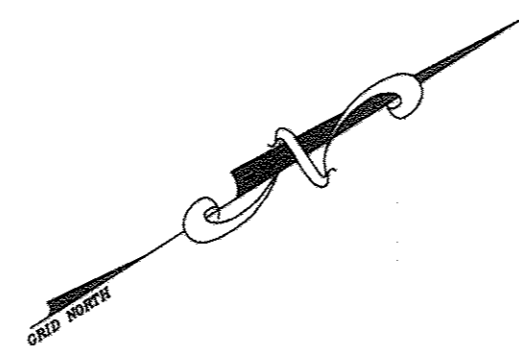
SHEET 15 OF 19

SHAKER DR.



BMP #1 PLANTING PLAN
SCALE:
1" = 10'

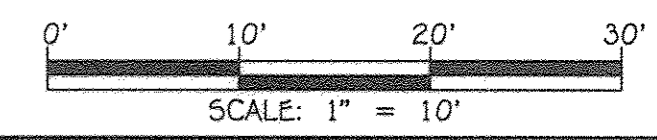
NOTE: THE UNDERDRAINS ARE NOT SHOWN FOR CLARITY.



BMP #2 PLANTING PLAN
SCALE:
1" = 10'

BIORETENTION FACILITY (BMP) PLANTING SCHEDULE						
KEY	PLANT NAME	MIN. SIZE	BMP #1 QUANTITY	BMP #2 QUANTITY	NOTES	SYMBOL
SG	SWITCH GRASS (<i>Panicum virgatum</i>)	1 qt	90	40	Grass @ 3' c/c min.	[Symbol]
ROD	RED OSIER DOGWOOD (<i>Cornus sericea</i>)	2 gal	6	0	Shrub @ 7' c/c	[Symbol]
BB	BEEBALM (<i>Monarda didyma</i>)	1 qt	8	5	Flower @ 4' c/c min.	[Symbol]
JP	JOE PYE WEED (<i>Eupatorium maculatum</i> "Gateway")	1 gal	11	4	Perennial @ 5' c/c min.	[Symbol]
OC	ORANGE CONEFLOWER (<i>Rudbeckia fulgida</i> "Goldsturm")	1 qt	18	0	Flower @ 3' c/c min.	[Symbol]

- PLANTING SPECIFICATIONS:
1. PLANT INSTALLATION SHALL BE PER MDE SPECIFICATIONS IN THE 2000 STORMWATER DESIGN MANUAL.
- ADDITIONAL SPECIFICATIONS:
1. PLANT BMP LEVEL SURFACE AS SHOWN IN THE ABOVE TABLE WITH AN EVEN DISTRIBUTION DENSITY. STABILIZE BMP SIDE SLOPES WITH PERMANENT GRASS SEED PER NRC5 SPECIFICATIONS. SIDE SLOPE PERMANENT GRASS AREAS SHALL HAVE 3" OF CLEAN TOPSOIL ON TILLED SUB-SOIL AND EXCELSDIOR MATTING, WATER AS NECESSARY UNTIL ESTABLISHED VEGETATION.
2. THE CONTRACTOR SHALL PROVIDE AN UNCONDITIONAL ONE (1) YEAR GUARANTEE FROM THE DATE OF ACCEPTANCE FOR ALL PLANT MATERIALS.
3. PLANT MATERIAL SHALL CONFORM TO THE U.S. STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. PLANTING PERENNIALS & GRASSES: ROOT SYSTEMS SHALL BE SPLIT OR CRUMBLED. POTTED PLANTS SHALL BE SET SO THAT THE TOP OF THE POT IS EVEN WITH EXISTING GRADE. TREAT THE MULCHED AND PLANTED AREA WITH A PRE-EMERGENT HERBICIDE.
5. ALL PLANTS MUST BE ADEQUATELY AND REGULARLY WATERED PRIOR TO ACCEPTANCE.
6. DO NOT PLANT VEGETATION WITHIN 3 FT OF THE RISER.
7. PLANT SHRUBS 6" ABOVE THE BMP INVERT (i.e., TOP OF MULCH LAYER).



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ELLSWORTH CITY, MARYLAND 21042
(410) 461-2095



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018."
Charles J. Cervo, Sr.
CHARLES J. CERVO, SR., P.E. 7/19/17 DATE

DATE	DESCRIPTION	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Scott W. Hoffman 9-6-17 DATE
Director - Department of Planning and Zoning
Kent Chisholm 9-6-17 DATE
Chief, Division of Land Development
John L. ... 9-6-17 DATE
Chief, Development Engineering Division

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F	ZONING	TAX MAP#	ELECT. DISTR.
23857	13	R-20	36
		SIXTH	6067.01

PLANTING PLANS
BMPs #1-#2

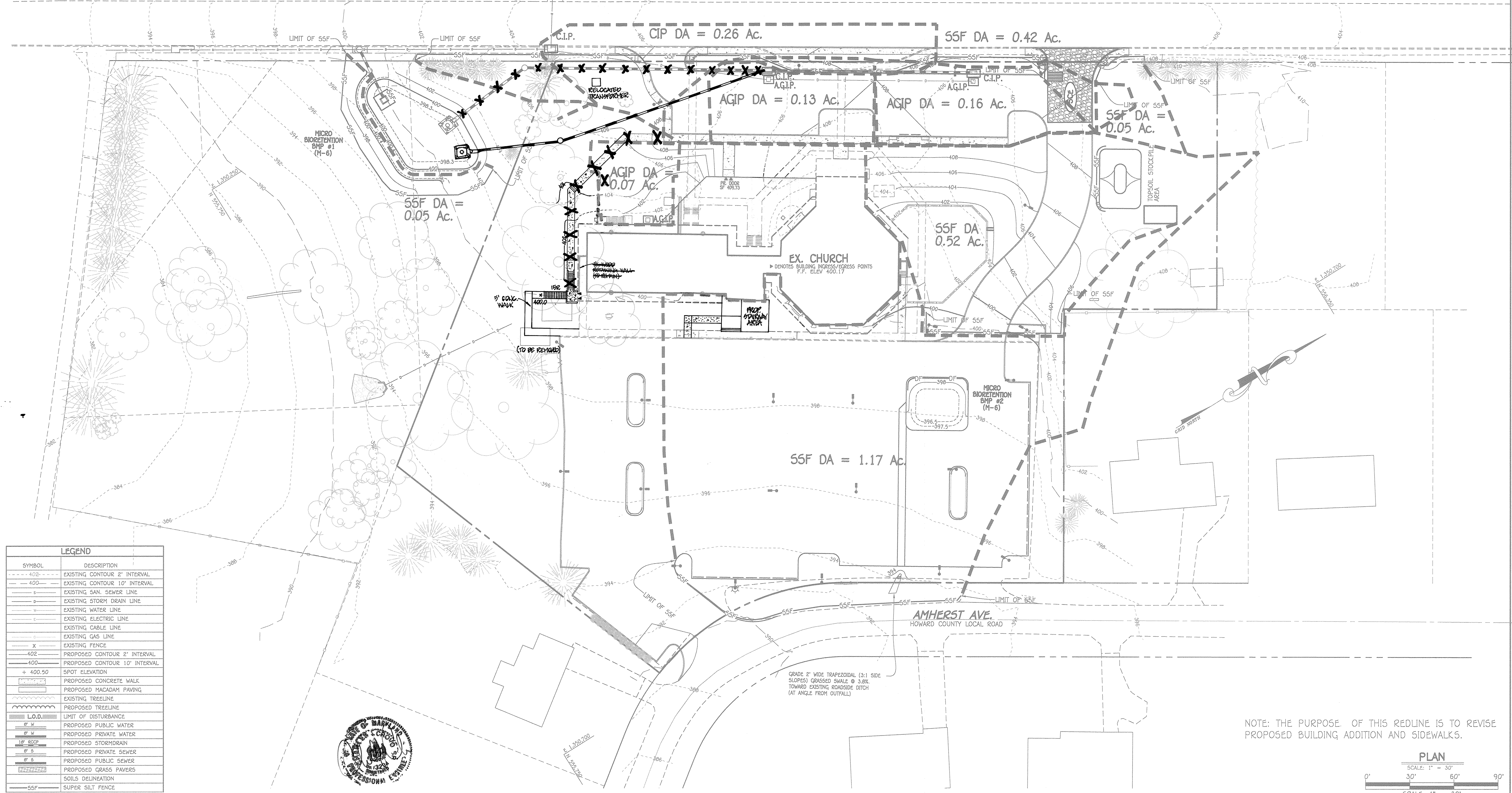
CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: APRIL 12, 2017

SHEET 16 OF 19

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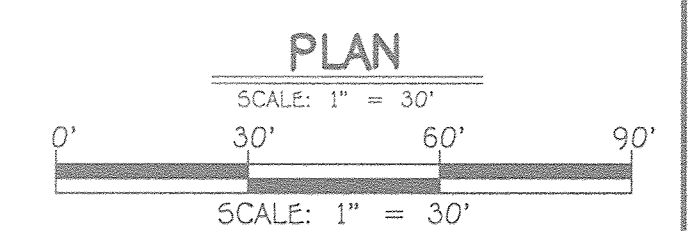
SHAKER DRIVE
HOWARD COUNTY MAJOR COLLECTOR



LEGEND	
--- 402 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SAN. SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING ELECTRIC LINE
---	EXISTING CABLE LINE
---	EXISTING GAS LINE
X	EXISTING FENCE
--- 402 ---	PROPOSED CONTOUR 2' INTERVAL
--- 400 ---	PROPOSED CONTOUR 10' INTERVAL
+ 400.50	SPOT ELEVATION
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREELINE
---	PROPOSED TREELINE
L.O.D.	LIMIT OF DISTURBANCE
---	PROPOSED PUBLIC WATER
---	PROPOSED PRIVATE WATER
---	PROPOSED STORMDRAIN
---	PROPOSED PRIVATE SEWER
---	PROPOSED PUBLIC SEWER
---	PROPOSED GRASS PAVERS
---	SOILS DELINEATION
---	SUPER SILT FENCE



NOTE: THE PURPOSE OF THIS REDLINE IS TO REVISE PROPOSED BUILDING ADDITION AND SIDEWALKS.



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CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21114
(410) 461-2895

ENGINEER'S CERTIFICATE
"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer: *Charles J. Cravo, Sr.* Date: 04/10/18

DEVELOPER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature of Developer: *Robert Galvin* Date: 4/10/18

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13204, Expiration Date: November 3, 2018."
Signature: *Charles J. Cravo, Sr.* Date: 04/10/18
CHARLES J. CRAVO, SR., P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature: *John L. Roberts* Date: 4/10/18
John L. Roberts, District Engineer

DATE	DESCRIPTION
11/4/10	REMOVE STORM DRAIN, SIDEWALK & ADD BIT. CURB TO PARKING PLAZAS
11/1/10	RELOCATED STAIRWAY AND SIDEWALK TO SECOND FLOOR
9/10/18	REMOVED WINDOW WELLS AND RAMPED 2' SIDE STAIRWAY/FOYER
2/27/18	REV. BLDG. ADDITIONS, SIDEWALKS, WATER SERVICE LINE AND GRADING.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Signature: *Nancy Jelic* Date: 4-24-18
Nancy Jelic, Director - Department of Planning and Zoning
Signature: *Keat Steelman* Date: 4-24-18
Keat Steelman, Chief, Division of Land Development
Signature: *Paul Chubb* Date: 4-19-18
Paul Chubb, Chief, Development Engineering Division

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

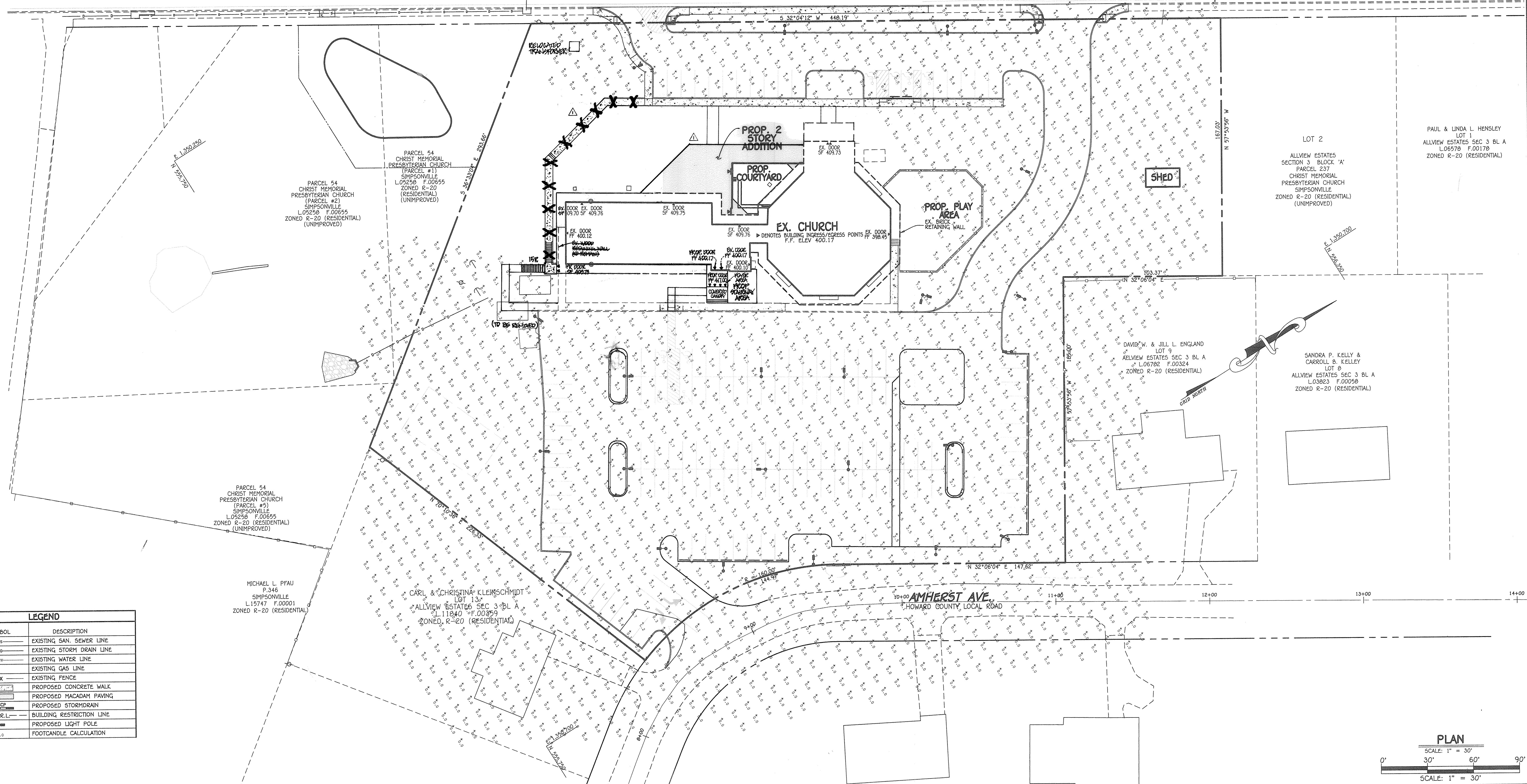
ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION	LOT NOS.	
ALLVIEW ESTATES	3	22	
PLAT# OR L/F	GRID#	ZONING	TAX MAP# ELECT. DISTR. CENSUS TRACT
23057	13	R-20	36 SIXTH 6067.01

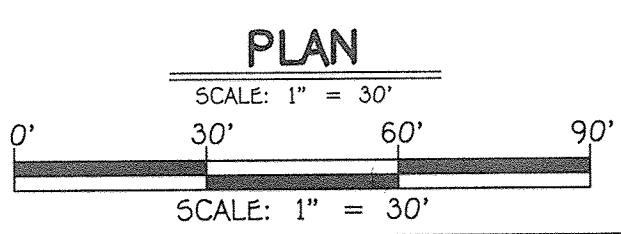
SEDIMENT AND EROSION CONTROL DRAINAGE AREA MAP
REVISED SITE DEVELOPMENT PLAN
CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22
ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL 12, 2017

SHAKER DRIVE
HOWARD COUNTY MAJOR COLLECTOR

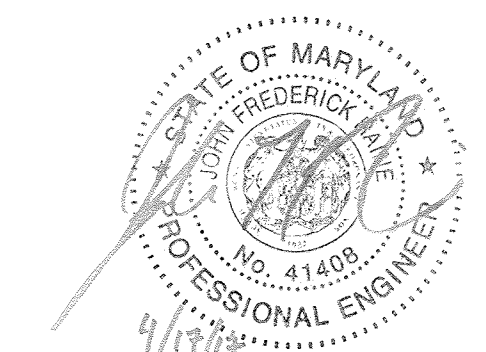
3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00



LEGEND	
SYMBOL	DESCRIPTION
—S—	EXISTING SAN. SEWER LINE
—D—	EXISTING STORM DRAIN LINE
—W—	EXISTING WATER LINE
—G—	EXISTING GAS LINE
—X—	EXISTING FENCE
—C—	PROPOSED CONCRETE WALK
—M—	PROPOSED MACADAM PAVING
—L.P. S.C.C.—	PROPOSED STORMDRAIN
—B.R.L.—	BUILDING RESTRICTION LINE
—P—	PROPOSED LIGHT POLE
—C.C.—	FOOTCANDLE CALCULATION



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MECHANICAL, ELECTRICAL, & PLUMBING ENGINEERS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
41408, Expiration Date: 01/03/14

DATE	DESCRIPTION	REVISION BLOCK
11/4/19	REMOVE SIDEWALK & ADD ENT. CHES TO PARKING WALLS	
11/1/18	RELOCATED SIDEWALK AND SIDEWALK TO SECOND FLOOR	
9/30/18	REMOVED WINDOW NEWS AND REPAVED 2 STORY SIDEWALK/PARK	
4-6-18	REV. BLDG. ADDITIONS, SIDEWALKS	

APPROVED: DEPARTMENT OF PLANNING AND ZONING	DATE
<i>[Signature]</i> Director - Department of Planning and Zoning	4-6-17
<i>[Signature]</i> Chief, Division of Land Development	9-6-17
<i>[Signature]</i> Chief, Development Engineering Division	9-1-17

PREPARED FOR
CHRIST MEMORIAL PRESBYTERIAN CHURCH
6410 AMHERST AVENUE
COLUMBIA, MARYLAND 21046
ATTENTION: REV. SCOTT W. HOFFMAN
410-997-8011

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
L. 22/P. 237	6410 AMHERST AVENUE COLUMBIA, MARYLAND 21046

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION	LOT NOS.			
ALLVIEW ESTATES	3	22			
PLAT# OR L/F	GRID#	ZONING	TAX MAP#	ELECT. DISTR.	CENSUS TRACT
23857	13	R-20	36	SIXTH	6067.01

PHOTOMETRICS PLAN

CHRIST MEMORIAL PRESBYTERIAN CHURCH
ALLVIEW ESTATES
SECTION THREE, BLOCK 'A', LOT 22

ZONED R-20 PARCEL No.: 237
TAX MAP No.: 36 GRID No.: 13
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL 3, 2017

SHEET 19 OF 19

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