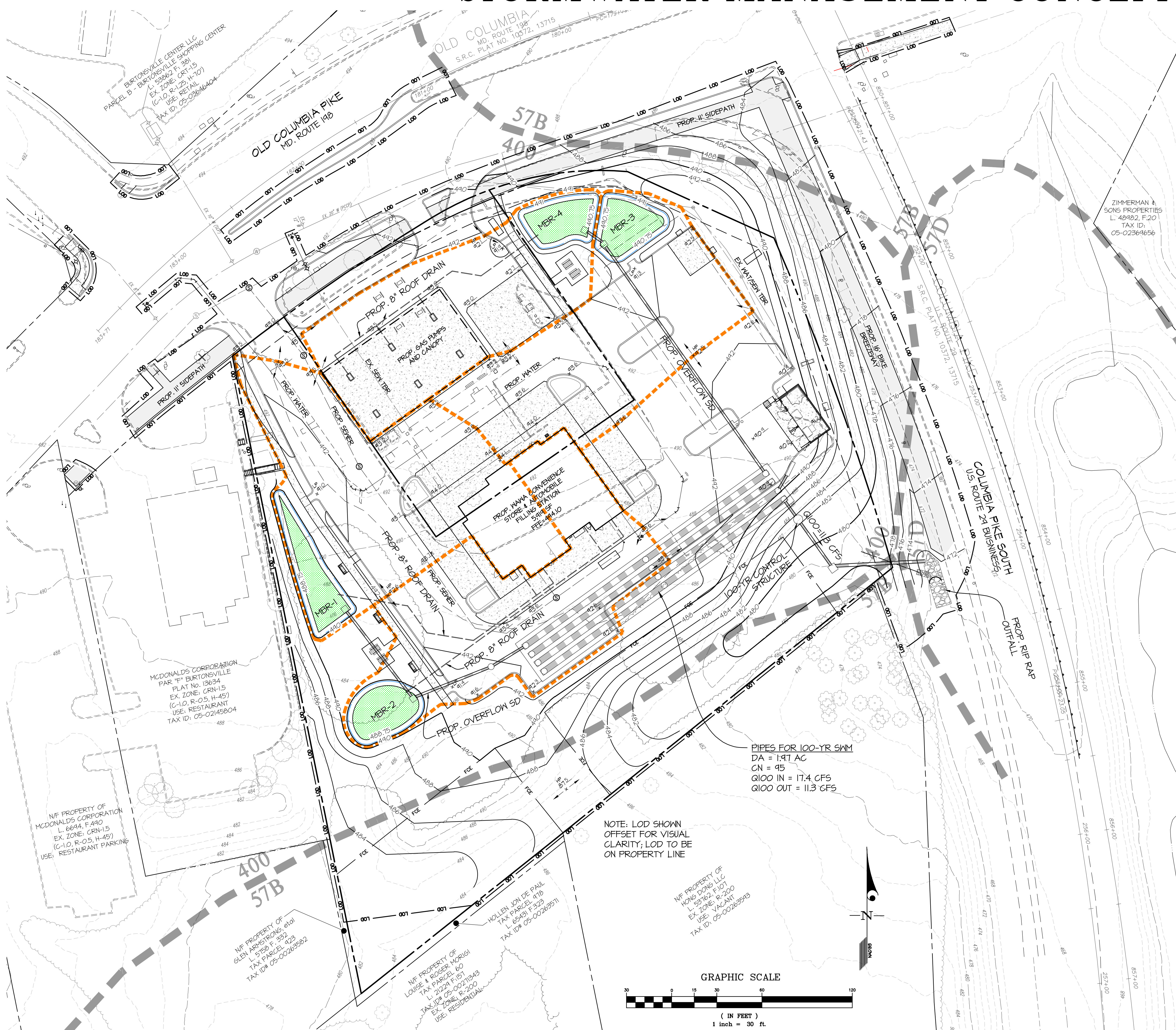
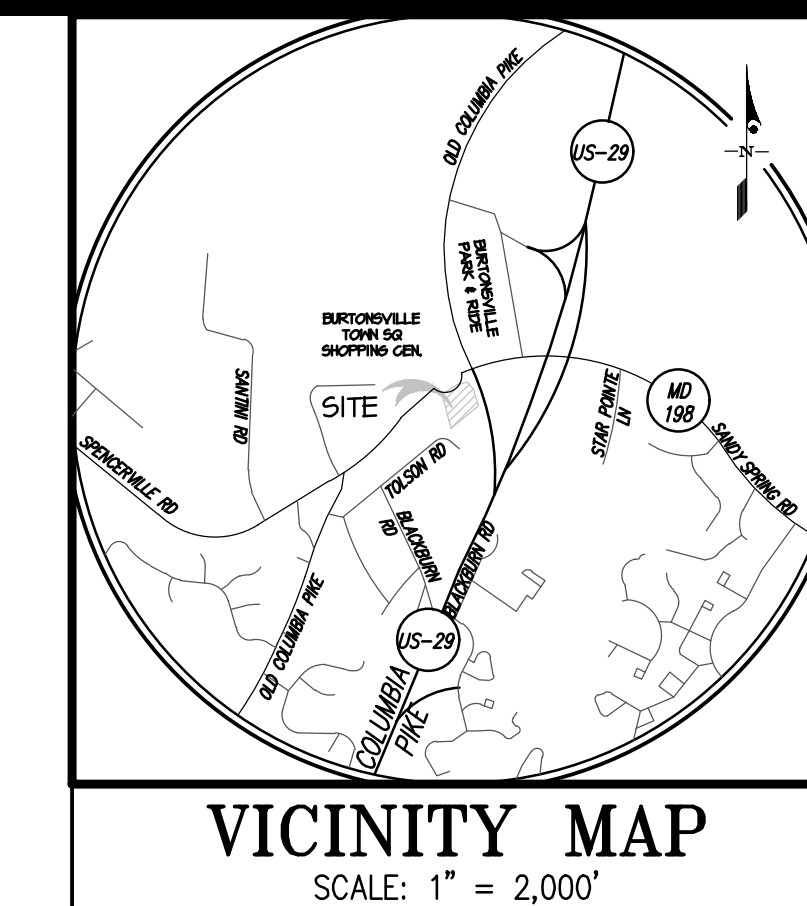


WAWA - BURTONSVILLE

STORMWATER MANAGEMENT CONCEPT PLAN



LEGEND

- 330 --- EXISTING CONTOURS
- 328 --- PROPOSED CONTOURS
- 320 --- EXISTING CURB
- 310 --- PROPOSED CURB
- 57B --- EXISTING SOIL DIVIDE
- 57D --- PROPOSED SOIL DIVIDE
- 10 --- EXISTING WATER
- 10 --- EXISTING SEWER
- 10 --- EXISTING STORM DRAIN
- 10 --- PROPOSED WATER
- 10 --- PROPOSED SEWER
- 10 --- PROPOSED STORM DRAIN
- --- PROPOSED DRAINAGE AREA
- --- PROPOSED ESD MEEL

100-YR SWM SUMMARY TABLE

DESCRIPTION	DRAINAGE AREA (AC)	Q100 (CFS)
EX. DA-1 (TO R/W)	0.61	5.4
EX. DA-2 (TO POND)	2.52	11.0
TOTAL EX. (TR-20)	3.13	14.2
PROP. PIPES	1.47	17.4
TOTAL PROP. (TR-20)	1.47	11.3

Exhibit 11
S-847-B Major Modification

SWM CONCEPT SUMMARY TABLE:
ENGINEER CONTACT INFO: GLW, ATTN: DAVID CHA
3904 NATIONAL DRIVE, SUITE 250
BURTONSVILLE, MD 20866
TEL: (301) 421-4024

GENERAL PROPERTY INFORMATION:
SMR: 240015
TYPE OF CONCEPT: STORMWATER MANAGEMENT CONCEPT
MUNICIPAL PROCESS: SPECIAL EXCEPTION PLAN
PROPERTY ADDRESS: 15585 AND 15545 OLD COLUMBIA PIKE, BURTONSVILLE 20866
PROPERTY LEGAL DESCRIPTION: PARCEL 'C' AND PARCEL 'D'
PROPERTY SIZE (AC/±SF): 3.31 AC/146,830 SF
TOTAL CONCEPT AREA: 4.22 AC/184,038 SF (LOD)

WATERSHED AND STREAM CLASS: LOWER PAINT BRANCH CLASS 1
SPECIAL PROTECTION AREA: N/A
100 YR FLOODPLAIN: N/A
EX. % IMPERVIOUS/REDEVELOPMENT OR NEW DEVELOPMENT: 42% / REDEVELOPMENT

SWM SUMMARY:
TARGET P₁₀₀/PROPOSED P₁₀₀: 1.00" / 1.04"
TARGET ESD_v/PROVIDED ESD_v: 11,736 CF / 11,984 CF
ESD MEASURES: (4) MICRO-BIORETENTION PONDS
STRUCTURAL STORAGE REQUIRED/PROVIDED: N/A
STRUCTURAL MEASURES: N/A
HAVER REQUEST/GL/GBOTH: NO
PROVIDED ESD_v + STRUCTURAL STORAGE PROVIDED + REQUESTED TO BE MAINT: 11,984 CU FT
OTHER INFORMATION: APPROVED NRI-FSD 420181010

MICRO-BIORETENTION SUMMARY TABLE

Facility	DA	Imp. Area	Ar	Min ES Dv	Max ES Dv	Provided ES Dv
MB-1	20,000 sf	16,218 sf	1,172 sf	1,307 sf	3,399 sf	3,399 sf
MB-2	18,797 sf	15,072 sf	1,112 sf	1,209 sf	3,183 sf	3,143 sf
MB-3	16,935 sf	13,860 sf	1,028 sf	1,080 sf	2,888 sf	2,888 sf
MB-4	15,752 sf	12,633 sf	936 sf	1,013 sf	2,634 sf	2,634 sf
Total:						11,984 sf

SHEET INDEX

SHEET TITLE	SHEET NO.
STORMWATER MANAGEMENT CONCEPT PLAN	1 OF 2
EXISTING CONDITIONS / EXISTING DRAINAGE AREA MAP	2 OF 3
STORMWATER MANAGEMENT DETAILS	3 OF 3

GLW
PLANNING [ENGINEERING] SURVEYING
3809 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | FAX: 410-880-1850 | EMAIL: SALES@GLW.COM | FAX: 301-421-4188

DESIGNED BY	DHC	DATE	REVISION	BY	APPR.
DRAWN BY	DHC				
CHECKED BY	TML				

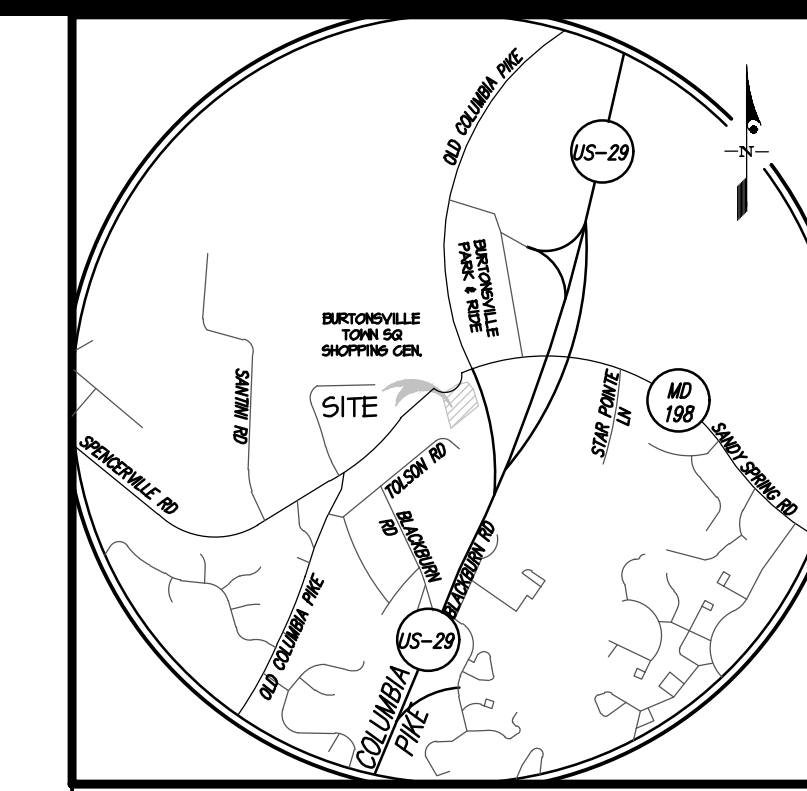
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20814
EXPIRATION DATE: JANUARY 20, 2024



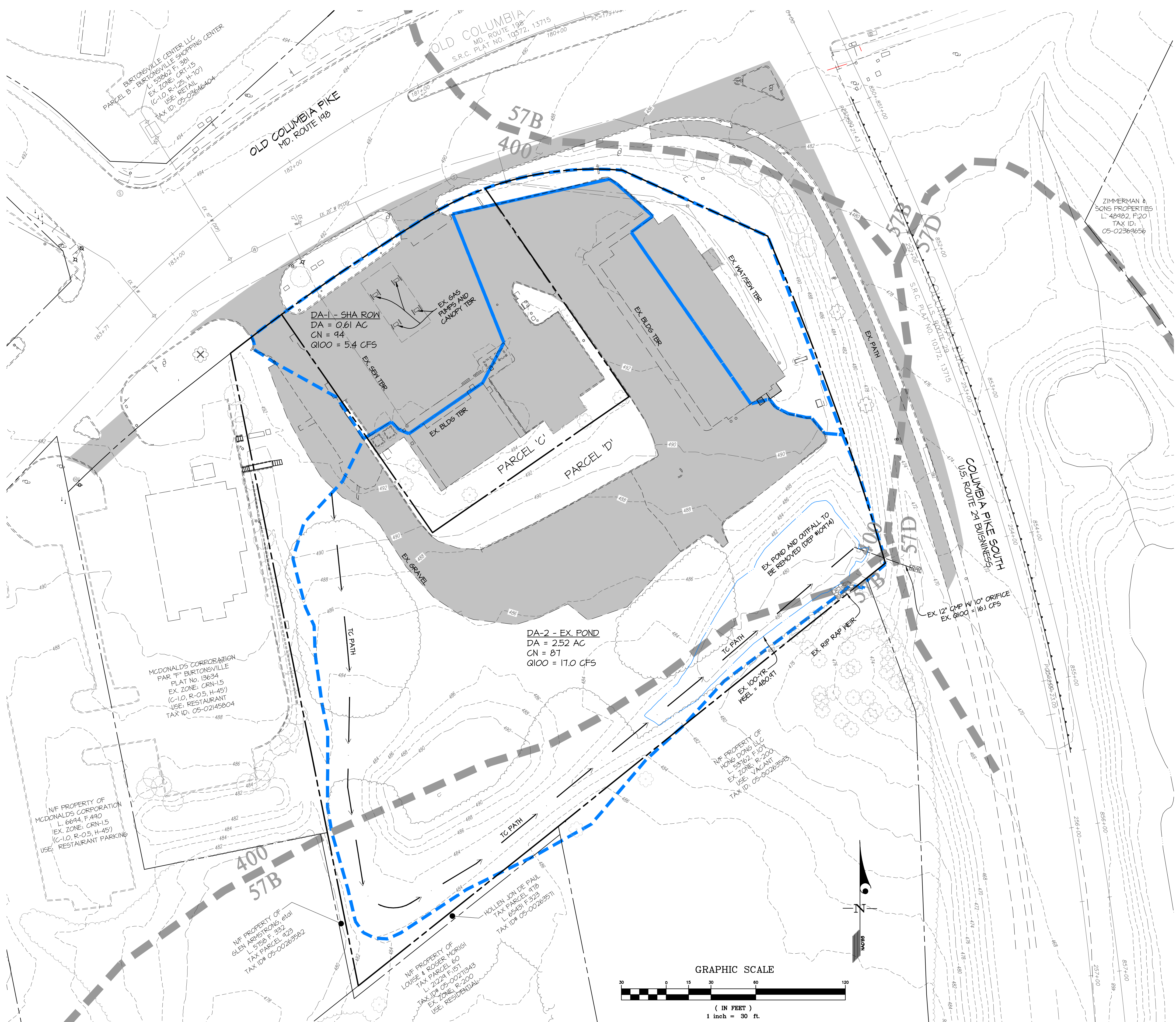
PREPARED FOR:
HONG CHENG LLC & DONG YA LLC
9106 SHAD LANE
POTOMAC, MARYLAND 20854
ATTN: KUO-CHEN CHENG
TEL: 301-928-2429

SCALE	ZONING
1"=30'	CRF-1.5 C-1.0, R-5.0, H-45
DATE	TAX MAP - GRID
SEPT. 2023	KS-62

STORMWATER MANAGEMENT CONCEPT PLAN
WAWA - BURTONSVILLE
Automobile Filling Station & Convenience Store
Parcel C & Parcel D
L. 15285 F. 145 & L. 50129 F.283
COLESVILLE ELECTION DISTRICT No. 05
MONTGOMERY COUNTY, MARYLAND

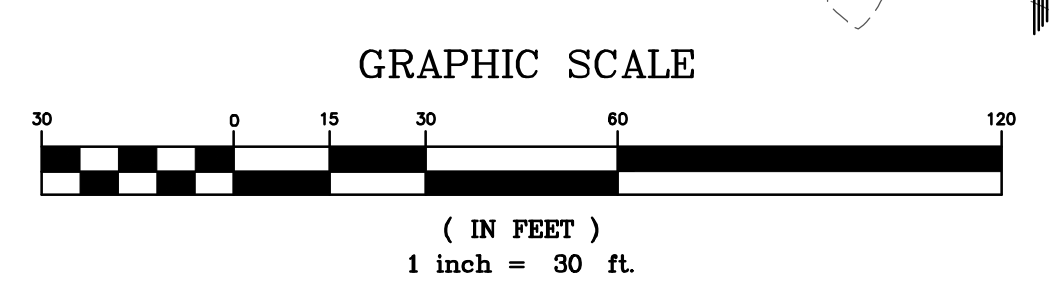


VICINITY MAP
SCALE: 1" = 2,000'



LEGEND

	EXISTING CONTOURS
	PROPOSED CONTOURS
	EXISTING CURB
	PROPOSED CURB
	EXISTING SOIL DIVIDE
	PROPOSED SOIL DIVIDE
	EXISTING WATER
	EXISTING SEWER
	EXISTING STORM DRAIN
	PROPOSED WATER
	PROPOSED SEWER
	PROPOSED STORM DRAIN
	EXISTING DRAINAGE AREA
	EXISTING IMPERVIOUS AREAS



GLW
PLANNING | ENGINEERING | SURVEYING
3809 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20896 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1850 | DC/VA: 301-489-2524 | FAX: 301-421-4188

DESIGNED BY	DHC	DATE	REVISION	BY	APPR.
DRAWN BY	DHC				
CHECKED BY	TML				

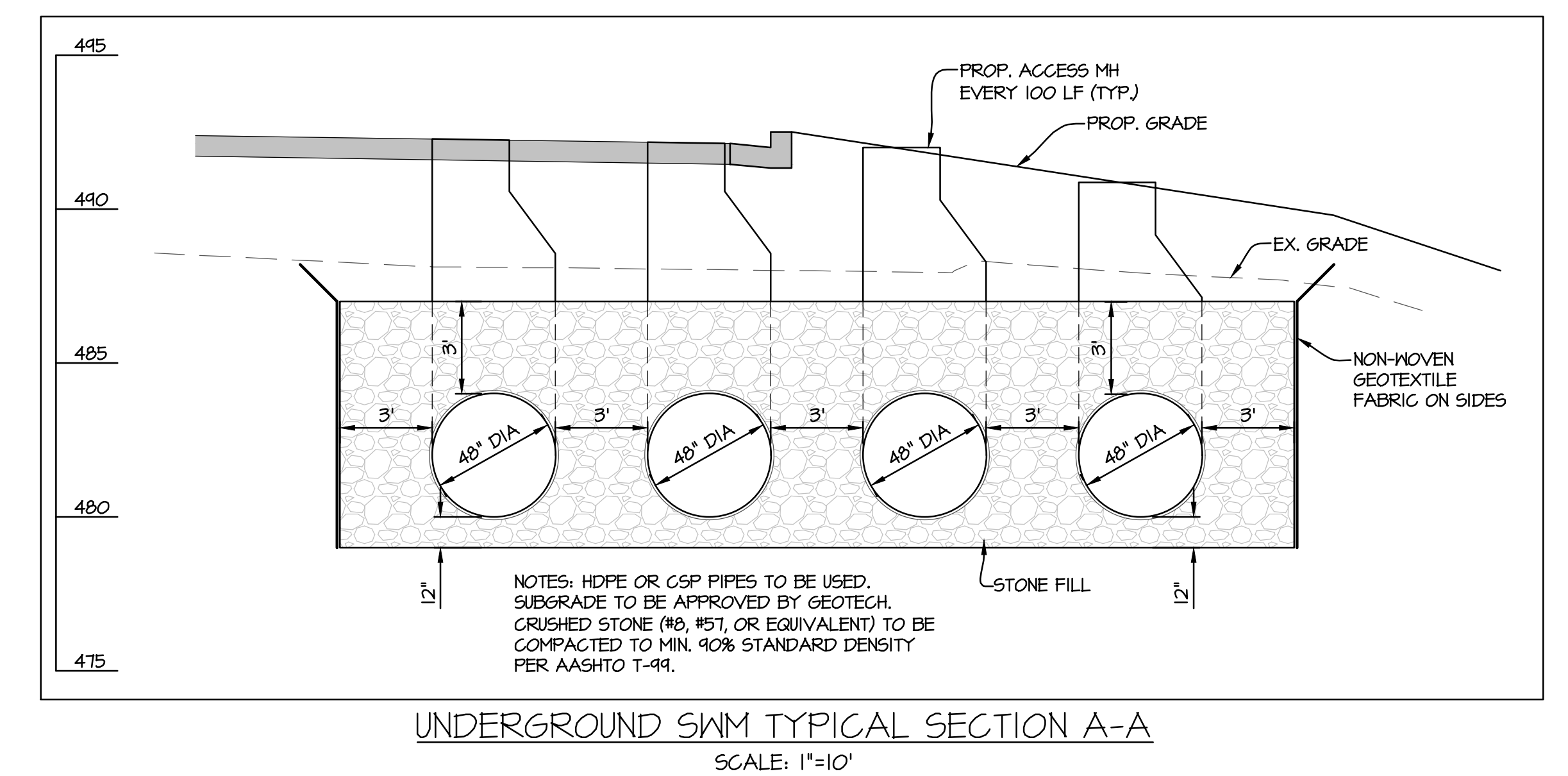
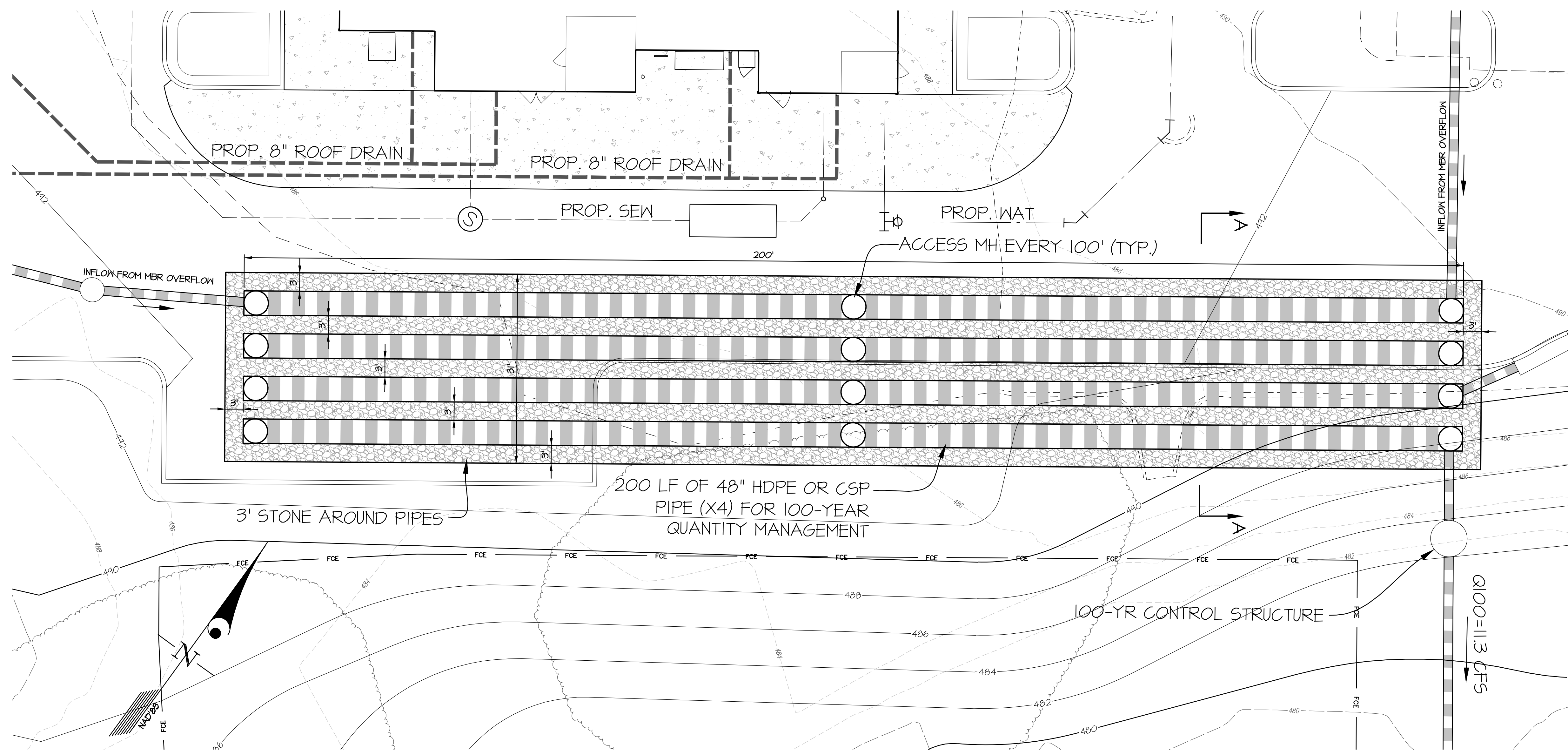
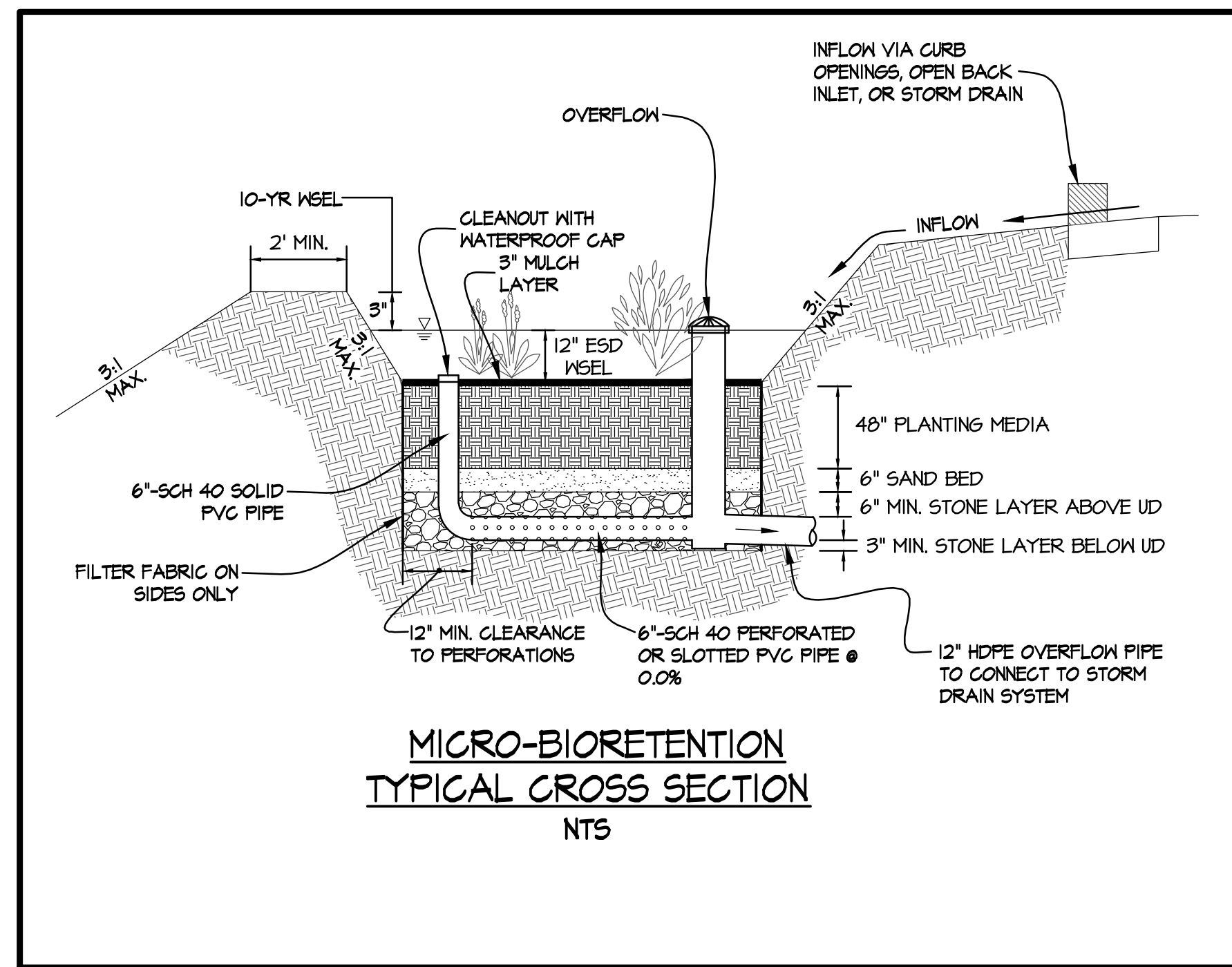
PREPARED FOR:
HONG CHENG LLC & DONG YA LLC
3106 SHAD LANE
POTOMAC, MARYLAND 20854
ATTN: KUO-CHIEN CHENG
TEL: 301-928-2429

SCALE	1"=30'
ZONING	CRF-1.5 C-1.0, R-5.0, H-45
DATE	SEPT. 2023
TAX MAP - GRID	KS-62

EXISTING CONDITIONS AND EXISTING DRAINAGE AREA MAP

WAWA - BURTONSVILLE
Automobile Filling Station & Convenience Store
Parcel C & Parcel D
L. 15285 F. 145 & L. 50129 F.283
COLESVILLE ELECTION DISTRICT No. 05
MONTGOMERY COUNTY, MARYLAND

G. L. W. FILE No.
23078
SHEET
2 OF 3



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GLW
PLANNING [ENGINEERING] SURVEYING
3809 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1800 | DCVA: 301-489-2524 | FAX: 301-421-4188

DESIGNED BY	DHC	DATE	REVISION	BY	APPR.
DRAWN BY	DHC				
CHECKED BY	TML				

PREPARED FOR:
HONG CHENG LLC & DONG YA LLC
3106 SHAD LANE
POTOMAC, MARYLAND 20854
ATTN: KUO-CHIEN CHENG
TEL: 301-928-2429

SCALE	AS SHOWN	ZONING	CRF-1.5 C-1.0, R-5.0, H-45
DATE	SEPT. 2023	TAX MAP - GRID	KS-62

STORMWATER MANAGEMENT CONCEPT DETAILS
WAWA - BURTONSVILLE
Automobile Filling Station & Convenience Store
Parcel C & Parcel D
L. 15285 F. 145 & L. 50129 F.283
COLESVILLE ELECTION DISTRICT No. 05
MONTGOMERY COUNTY, MARYLAND

G. L. W. FILE No.
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SHEET
3 OF 3