

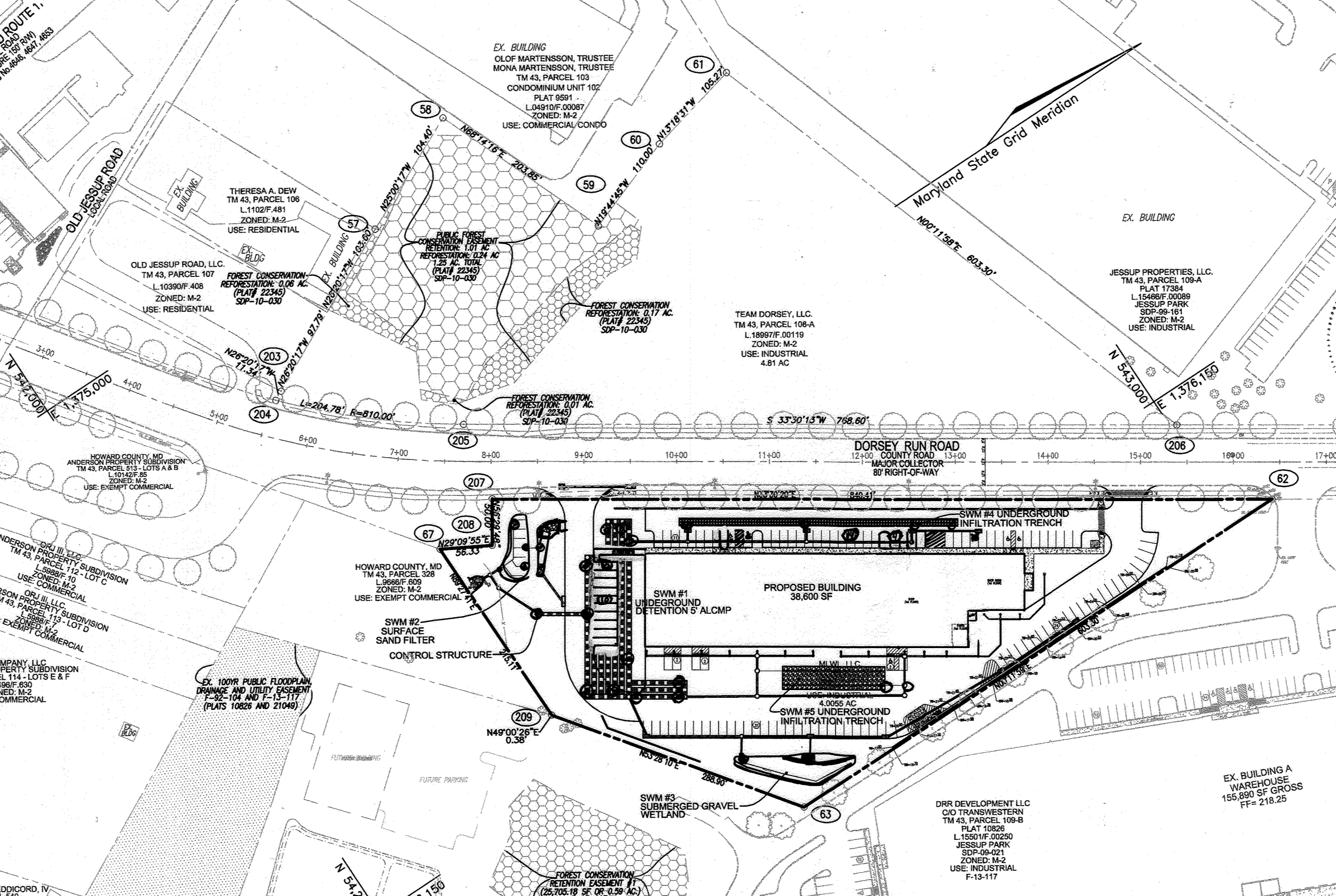
GENERAL NOTES

- 1. PROJECT BACKGROUND: SUBMISSION NAME: JESSUP PARK... SECTION/AREA: 3B... PARCEL: 108-B... ZONING: M-2...
2. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS FOR USES AND OSNA UNLESS WAIVERS HAVE BEEN APPROVED...
3. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS...

CONSTRUCTION PERIOD PROTECTION AND MANAGEMENT NOTES FOR STREET TREES

- PRE-CONSTRUCTION PHASE
1. FOR RETENTION AREAS, INSTALL BLAZE ORANGE FENCE AND RETENTION SIGNS BEFORE CONSTRUCTION BEGINS.
2. FENCING SHALL BE MAINTAINED IN GOOD CONDITION AND PROMPTLY REPAIRED OR RESTORED AS THE SITUATION WARRANTS.
3. A QUALIFIED TREE CARE EXPERT SHALL DETERMINE IF ROOT PRUNING IS REQUIRED ALONG THE LIMIT OF DISTURBANCE. ROOT PRUNE TREES AS REQUIRED. WATER ANY ROOT-PRUNED TREES IMMEDIATELY AFTER ROOT PRUNING AND MONITOR FOR SIGNS OF STRESS DURING CONSTRUCTION.
CONSTRUCTION PHASE
1. NO DISTURBANCE OR DUMPING IS ALLOWED INSIDE THE TREE RETENTION AREA.
2. NO EQUIPMENT SHALL BE OPERATED INSIDE THE TREE RETENTION AREA.
3. IN THE EVENT OF DROUGHT, THE PROTECTED TREES SHALL BE MONITORED FOR SIGNS OF STRESS AND WATERED AS NEEDED.

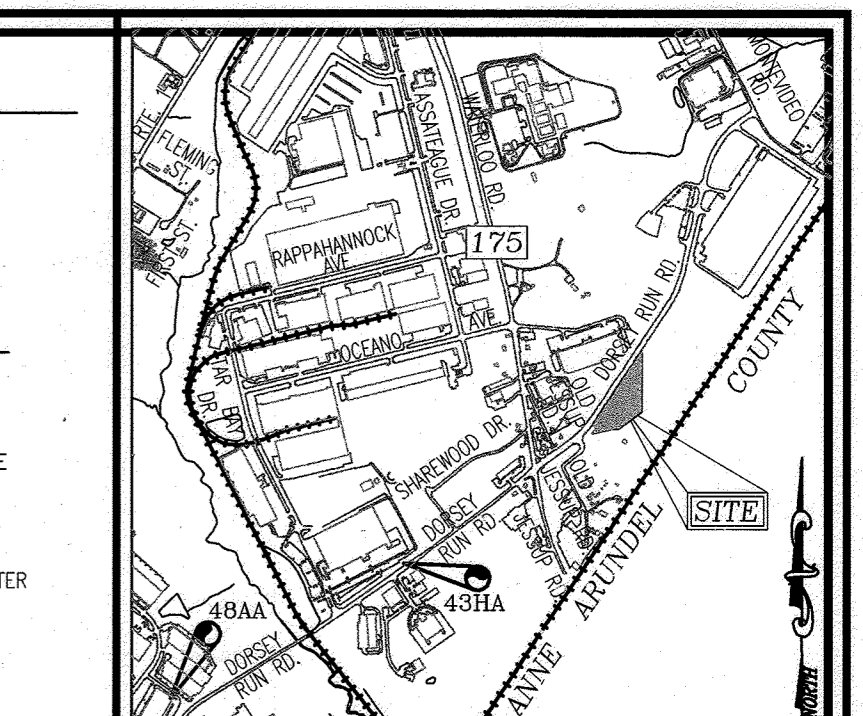
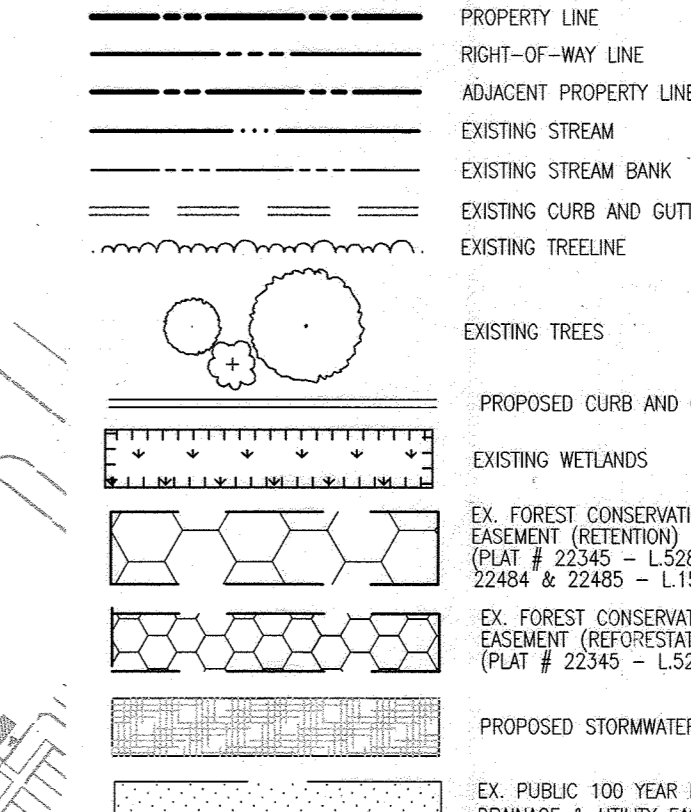
TPC RACING SITE DEVELOPMENT PLAN 7869 DORSEY RUN ROAD JESSUP, MARYLAND 20794



BENCHMARKS

HOWARD COUNTY BENCHMARK 48A N 539.314.900 E 1,371,539.251 ELEV.: 240.78' HOWARD COUNTY BENCHMARK 43A N 540.761.716 E 1,373,837.365 ELEV.: 224.89'

LEGEND



VICINITY MAP

SCALE: 1"=2000' ADC MAP: 5054 64

COORDINATE TABLE

Table with columns: POINT, NORTHING, EASTING. Lists coordinates for points 57 through 209.

SHEET INDEX

Table with columns: DESCRIPTION, SHEET NO. Lists sheet numbers and descriptions for COVER SHEET, EXISTING CONDITIONS AND DEMOLITION, LAYOUT PLAN, etc.

GENERAL NOTES (CONT'D)

- 29. QUANTITY SURVEILLANCE SHALL BE PROVIDED FOR THE PROPOSED ROAD CONNECTION TO DORSEY RUN ROAD IN ACCORDANCE WITH THE LATEST MANDATORY STANDARD.
30. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS.
31. AN ENVIRONMENTAL CONCEPT PLAN (ECP-19-070) WAS APPROVED ON NOVEMBER 20, 2019.
32. IN ACCORDANCE WITH SECTION 16.12 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THERE IS NO OPEN SPACE REQUIREMENT FOR THIS M-2 PROJECT.
33. THERE IS NO AMENITY AREA REQUIREMENT FOR THIS M-2 PROJECT.
34. IN ACCORDANCE WITH SECTION 16.13 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THERE IS NO OPEN SPACE REQUIREMENT FOR THIS M-2 PROJECT.
35. IN ACCORDANCE WITH DESIGN MANUAL VOLUME 4, CHAPTER 2 - SECTION 2.9.4, AND ZONING MANUAL SECTION 133.03.D.5, PARKING IS REQUIRED AT 0.75 SPACES PER 1,000 S.F. OF WAREHOUSE AREA AND 2.5 SPACES PER 1,000 S.F. OF FLEX SPACE AREA. PARKING IS PROVIDED AT THE REQUIRED RATE OF STATED ABOVE.
36. TOTAL PARKING SPACES REQUIRED: 96 SPACES (SEE PARKING TABULATION SHEET) TO INCLUDE 4 SURFACE HANDICAP SPACES.
37. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL PERFORATED ('QUICK PUNCH') SQUARE TUBE POST (1 1/2" GAUGE) INSERTED INTO A 2-4" GALVANIZED STEEL PERFORATED SQUARE TUBE SLEEVE (1 1/2" GAUGE - 3" LONG).
38. THE ANCHOR SHALL NOT EXTEND MORE THAN 6 FEET HIGH ABOVE THE GROUND LEVEL. A GALVANIZED STEEL PERFORATED SQUARE TUBE SHALL BE MOUNTED ON THE TOP OF EACH POST.
39. PUBLIC STAIRWELL ALONG DORSEY RUN ROAD WAS PROVIDED IN ACCORDANCE WITH SECTION 16.13 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, UNDER UNIFORM FIRE PROTECT. #1-4148-C. STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURES AND POLES ARE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME 11, SECTION 6.5.4. THERE IS NO FINAL PLAN ASSOCIATED WITH THIS PROJECT. ANY EXISTING STREET LIGHTS THAT ARE REMOVED UNDER THIS PLAN SHALL BE REPLACED IN KIND, A MINIMUM OF 20 FEET SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE. TRASH AND RECYCLING COLLECTION SHALL BE PRIVATE.
40. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
41. ELEVATIONS ARE TO FLOW LINE / BOTTOM OF CURB UNLESS OTHERWISE NOTED.
42. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
43. ALL STORM DRAIN FIELDS SHALL BE IN ACCORDANCE WITH THE CURRENT HOWARD COUNTY SPECIFICATIONS.
44. ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3,500 P.S.I.
45. ALL PAVING TO BE MINIMUM HOWARD COUNTY STANDARD DETAIL P-2 UNLESS OTHERWISE NOTED. (SEE DETAIL SHEET #6).
46. THE GEOTECHNICAL ENGINEER TO CONFIRM PAVING SECTION PRIOR TO CONSTRUCTION.
47. ALL CURB AND GUTTER TO BE HOWARD COUNTY STANDARD CONCRETE DETAIL 3.01 UNLESS OTHERWISE SPECIFIED. (SEE DETAIL SHEET #6).
48. CONTRACTOR RESPONSIBLE TO CONSTRUCT ALL HANDICAP PARKING AND HANDICAP ACCESS IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
49. WHERE DRAINAGE FLOWS AWAY FROM CURBS, CONTRACTOR TO REVERSE THE GUTTER PAN.
50. ALL ELEVATIONS ARE TO FLOWLINE/BOTTOM OF CURB UNLESS OTHERWISE NOTED.
51. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
52. BUILDINGS SHALL BE KEPT OUT OF WATER METERS.
53. ALL EXTERIOR LIGHTING SHALL CONFORM TO ZONING REGULATIONS, SECTION 134. (SEE DETAIL SHEET #6).
54. A DOWN BOX IS REQUIRED TO BE PLACED ON THE ADDRESS SIDE OF THE BUILDING TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4'-5' IN HEIGHT AND NO MORE THAN 6' LATERALLY FROM THE DOOR. ITS LOCATION IS SHOWN ON THESE PLANS. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS ASSESSED (INTERLOCKED WITH THE FIRE ALARM SYSTEM). THE CONTRACTOR SHALL CONTACT THE OFFICE OF THE FIRE MARSHAL PRIOR TO PURCHASING AND INSTALLING KNIX BOXES TO DETERMINE IF ADDITIONAL KNIX BOXES WILL BE REQUIRED AT THE LOCATION(S) WHERE THEY ARE TO BE MOUNTED.
55. A FIRE DEPARTMENT CONNECTION FOR THE FIRE PROTECTION SYSTEMS SHALL BE LOCATED: (A) ON THE SIDE OF THE STRUCTURE DISPLAYING THE ADDRESS CLEARLY VISIBLE TO THE RESPONDING UNITS, (B) WITHIN 100 FEET OF A FIRE HYDRANT; (C) THE APPROPRIATE SIGN SHALL BE MOUNTED ON THE BUILDING WALL BETWEEN 8 AND 12 FEET ABOVE THE FIRE DEPARTMENT CONNECTION; (D) A FREE STANDING FIRE DEPARTMENT CONNECTION SHALL HAVE THE SIGN MOUNTED ON A POLE DIRECTLY BEHIND THE CONNECTION, APPROXIMATELY 8 FEET HIGH; (E) SIGN SHALL HAVE A WHITE REFLECTIVE BORDER, RED REFLECTIVE BORDER, AND REFLECTIVE LETTERS AND A RED REFLECTIVE ARROW. THE BORDER SHALL HAVE A 3/8" STROKE. THE LETTERS SHALL BE 6" HIGH WITH A 1" STROKE. THE ARROW SHALL HAVE A STROKE NOT LESS THAN 1/8" OVER THE CLEAR SPACE OF 22 FEET BY 18" BY 18". (V) ANY OBSTRUCTED CONNECTION THAT DETERS OR HINDERS ACCESS TO A FIRE DEPARTMENT CONNECTION, PROVIDE A CLEAR UNOBSTRUCTED ACCESS PATH TO THE FIRE DEPARTMENT CONNECTION. NFPA-113.14.
56. ALL DIMENSIONS SHALL BE PROVIDED ON THE BUILDING DEVELOPER AGREEMENTS, POST SURETIES, AND PAY ALL REQUIRED FEES TO THE DEPARTMENT OF PUBLIC WORKS, REAL ESTATE SERVICES DIVISION, ON OR BEFORE APRIL 3, 2021.
57. REFERENCE HOWARD COUNTY CAPITAL PROJECT #1-4148-C FOR CONSTRUCTION OF EXISTING DORSEY RUN ROAD, UTILITIES, LIGHTING AND STREET TREES THEREIN. ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED FOR THE PURPOSE OF OBTAINING FEES.
58. ALL SURFACE HANDICAP PARKING SHALL BE REINFORCED CONCRETE.

LOCATION PLAN



SITE ANALYSIS DATA CHART

Table with columns: A. TOTAL PROJECT AREA / GROSS TRACT AREA: 174,480 S.F. OR 4.0055 AC. +/-; B. AREA OF PLAIN SUBMISSION: 178,649 S.F. OR 4.100 AC. +/-; C. LIMIT OF DISTURBED AREA/DEVELOPMENT AREA: M-2 (MANUFACTURING HEAVY); D. PRESENT ZONING DESIGNATION: FLEX (INDOOR CAR SALES); E. PROPOSED USES FOR SITE AND STRUCTURES: FLEX (INDOOR CAR SALES) / TRUCK SERVICE + OFFSITE DISTRIBUTION; F. TOTAL BUILDING AREA: 40,973 S.F.; G. TOTAL NUMBER OF UNITS PROPOSED: 116; H. TOTAL NUMBER OF PARKING SPACES REQUIRED: 96; I. TOTAL NUMBER OF PARKING SPACES PROVIDED: 116; J. AMENITY OPEN SPACE AREA REQUIRED: N/A; K. TOTAL SITE OPEN SPACE PROVIDED: N/A; L. TOTAL BUILDING COVERAGE WITHIN DEVELOPMENT AREA: 38,600 S.F. (0.89 AC. OR 21.61%); M. AREA OF WETLANDS AND BUFFERS: WETLAND-ONSITE: 0.00 S.F. OR 0.00 AC.; N. STREAMS AND THEIR BUFFERS: ON-SITE: 0.00 S.F. OR 0.00 AC.; O. AREA OF FLOODPLAIN: WITHIN THE L.D.: 0.00 S.F. OR 0.00 AC.; P. AREA OF FOREST: 4.90 AC. (FOREST CONSERVATION); Q. AREA OF MODERATE SLOPES (15% - 24.99%): 20,000 S.F. CONTIGUOUS: 0.00 S.F. OR 0.00 AC.; R. AREA OF STEEP SLOPES (25% & GREATER): > 20,000 S.F. CONTIGUOUS: 0.00 S.F. OR 0.00 AC.; S. ERODIBLE SOILS: 86,933 S.F. (2.00 AC.); T. TAX MAP 43, GRID 22, 1ST ELECTION DISTRICT; U. 1ST ELECTION DISTRICT; V. DPZ FIRE REFERENCES: CAP. PROJ. #1-4148-C, ECP-19-070, WP-11-095, WP-12-084, WP-13-143, WP-21-058; W. DEED/PLAT REFERENCES: FC PLAT 22345; X. LOCATION: SOUTH SIDE OF DORSEY RUN ROAD, EAST OF WATERLOO ROAD; Y. PUBLIC ACCESS ROAD: DORSEY RUN ROAD; Z. INTERIOR ROADS: PRIVATE ACCESS DRIVES; AA. PAVING WITHIN THE DEVELOPMENT AREA: 77,155 SF (1.77 AC. OR 43.19%); AB. TOTAL PROPOSED IMPERVIOUS WITHIN DEVELOPMENT AREA: 119,407 S.F. (2.74 AC. OR 66.83%); AC. GREEN OPEN AREA WITHIN THE DEVELOPMENT AREA: 59,242 S.F. (1.36 AC. OR 33.16%); AD. CURRENT BUILDING HEIGHT: 50'; AE. MINIMUM BUILDING HEIGHT: N/A; AF. MINHU UNITS REQUIRED: N/A; AG. COMMERCIAL SPACE REQUIRED: N/A.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Includes signatures of Chad Edmondson (Director) and other officials, dated 3/30/2022.

TRAFFIC NOTE: A TRAFFIC STUDY WHICH INCLUDED A TRAFFIC IMPACT ANALYSIS, WAS PREPARED BY THE TRAFFIC GROUP, INC. AND APPROVED BY HOWARD COUNTY ON MARCH 16, 2021 AS PART OF THE PLAN. THE STUDY INCLUDED TWO ACCESS ROUTES AND FOUND THAT ACCESS ROUTES FROM DORSEY RUN ROAD AND MONTEVERDE ROAD AT DORSEY RUN ROAD WERE PROPOSED TO OPERATE WITH AN ACCEPTABLE 'D' LEVEL OF SERVICE DURING PEAK HOURS FOR THE FUTURE PROPOSED TRAFFIC VOLUMES. A TRAFFIC EVALUATION LETTER WAS THEN ISSUED ON MARCH 11, 2021 BY THE TRAFFIC GROUP, INC. WHICH STATED THAT THE TRAFFIC IMPACT ANALYSIS WAS SATISFACTORY AND THAT THERE ARE NO ADDITIONAL TRAFFIC IMPROVEMENTS REQUIRED DUE TO THE MINOR INCREASE IN PEAK HOUR TRIPS.

SWM PRACTICE CHART PARCEL 108-B PRIVATE ESD PRACTICES BY LOT. Table with columns: LOT #, ESD PRACTICE, ADDRESS. Lists practices for parcels 108-B and 108-A.

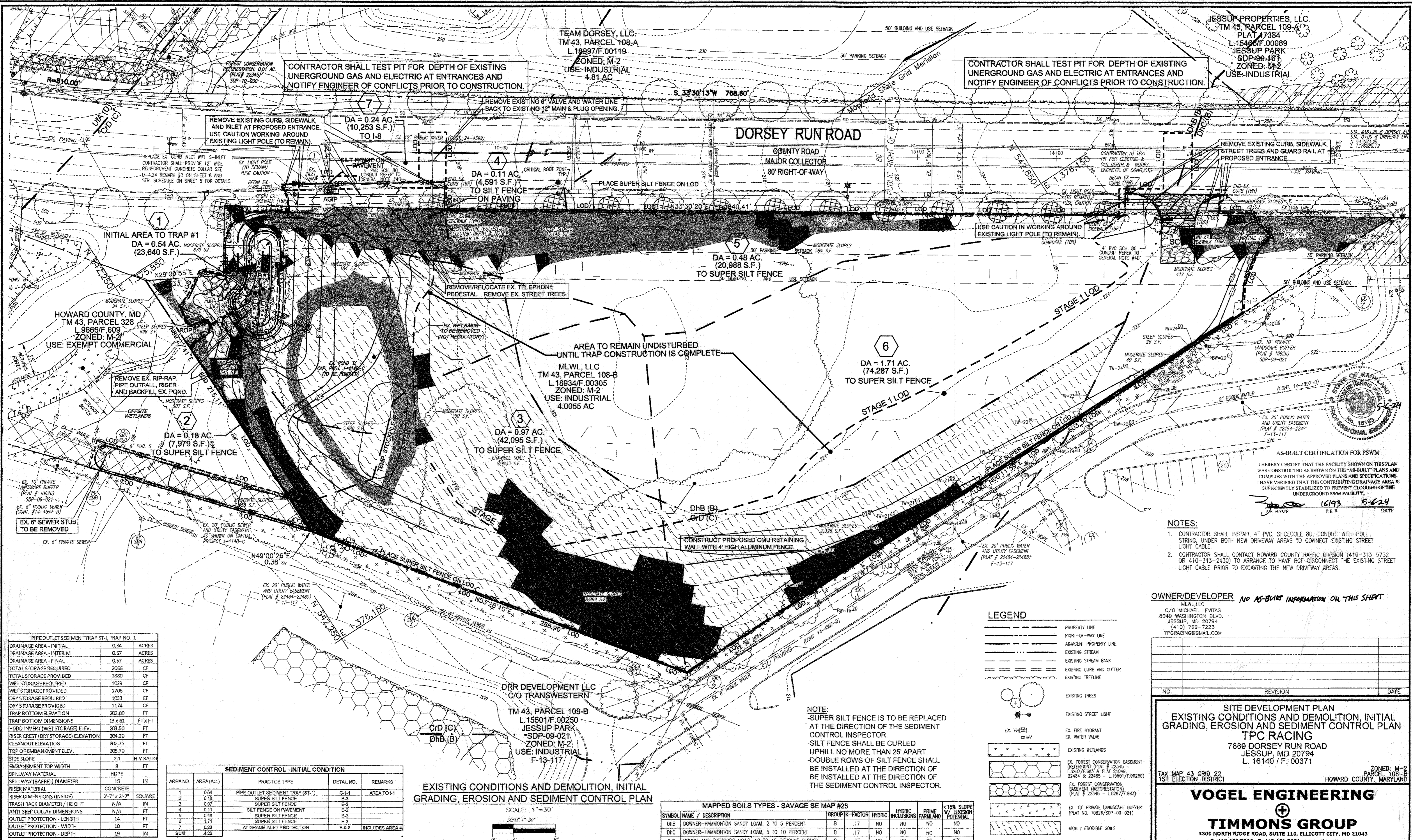
PERMIT INFORMATION CHART. Table with columns: LOT/PARCEL#, STREET ADDRESS, SUBMISSION NAME, SECTION/AREA, PARCEL NUMBER, PLAT NO., BLOCK NO., ZONE, TAX/ZONE, ELECT. DIST., CENSUS TR.

OWNER/DEVELOPER: MILLER, L.L. LLC, C/O MICHAEL LEVITAS, 8040 WASHINGTON BLVD., JESSUP, MD 20794. Includes contact information for TPC RACING.

SITE DEVELOPMENT PLAN COVER SHEET. TPC RACING, 7869 DORSEY RUN ROAD, JESSUP, MD 20794. Includes zoning information: ZONED: M-2 PARCEL 108-B.

VOGEL ENGINEERING & TIMMONS GROUP. 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043. Includes contact information and a professional seal for Robert Vogel.

AS-BUILT JAN. 2024 SDP-20-050



CONTRACTOR SHALL TEST PIT FOR DEPTH OF EXISTING UNDERGROUND GAS AND ELECTRIC AT ENTRANCES AND NOTIFY ENGINEER OF CONFLICTS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL TEST PIT FOR DEPTH OF EXISTING UNDERGROUND GAS AND ELECTRIC AT ENTRANCES AND NOTIFY ENGINEER OF CONFLICTS PRIOR TO CONSTRUCTION.

REMOVE EXISTING CURB, SIDEWALK, AND INLET AT PROPOSED ENTRANCE. USE CAUTION WORKING AROUND EXISTING LIGHT POLE (TO REMAIN).

REMOVE EXISTING CURB, SIDEWALK, STREET TREES AND GUARD RAIL AT PROPOSED ENTRANCE.

INITIAL AREA TO TRAP #1
DA = 0.54 AC
(23,640 S.F.)

DA = 0.11 AC
(4,591 S.F.)
TO SILT FENCE ON PAVING

DA = 0.48 AC
(20,988 S.F.)
TO SUPER SILT FENCE

DA = 1.71 AC
(74,287 S.F.)
TO SUPER SILT FENCE

DA = 0.18 AC
(7,979 S.F.)
TO SUPER SILT FENCE

DA = 0.97 AC
(42,095 S.F.)
TO SUPER SILT FENCE

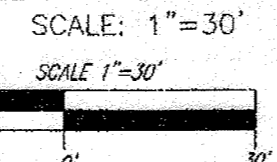
PIPE OUTLET SEDIMENT TRAP ST-1 TRAP NO. 1

Drainage Area - Initial	0.54	ACRES
Drainage Area - Interim	0.57	ACRES
Drainage Area - Final	0.57	ACRES
Total Storage Required	2066	CF
Total Storage Provided	2880	CF
Wet Storage Required	1033	CF
Wet Storage Provided	1706	CF
Dry Storage Required	1033	CF
Dry Storage Provided	1174	CF
Trap Bottom Elevation	202.00	FT
Trap Bottom Dimensions	13 x 61	FT x FT
HDDD (Invert (Wet Storage) Elev.)	203.50	FT
Riser Crest (Dry Storage) Elevation	204.20	FT
Cleanout Elevation	202.75	FT
Top of Embankment Elev.	205.70	FT
Side Slope	2:1	H:V RATIO
Embankment Top Width	8	FT
Spillway Material	HDPPE	
Spillway (Barrel) Diameter	15	IN
Riser Material	CONCRETE	
Riser Dimensions (Inside)	2'-7" x 2'-7"	SQUARE
Trash Rack Diameter / Height	N/A	IN
Anti-seep Collar Dimensions	N/A	FT
Outlet Protection - Length	14	FT
Outlet Protection - Width	10	FT
Outlet Protection - Depth	19	IN

SEDIMENT CONTROL - INITIAL CONDITION

AREA NO.	AREA (AC.)	PRACTICE TYPE	DETAIL NO.	REMARKS
1	0.54	PIPE OUTLET SEDIMENT TRAP (ST-1)	G-1.1	AREA TO E1
2	0.18	SUPER SILT FENCE	E-3	
3	0.07	SUPER SILT FENCE	E-3	
4	0.11	SILT FENCE ON PAVEMENT	E-2	
5	0.48	SUPER SILT FENCE	E-3	
6	1.71	SUPER SILT FENCE	E-3	
7	0.29	AT GRADE INLET PROTECTION	E-4.2	INCLUDES AREA 4
SUM	4.22			

EXISTING CONDITIONS AND DEMOLITION, INITIAL GRADING, EROSION AND SEDIMENT CONTROL PLAN



MAPPED SOILS TYPES - SAVAGE SE MAP #25

SYMBOL	NAME	DESCRIPTION	GROUP	K-FACTOR	HYDRIC	PRIME FARMLAND	<1% SLOPE W/ EROSION POTENTIAL
DdB	DOWNER-HAMMONTON SANDY LOAM, 2 TO 5 PERCENT	B	.17	NO	NO	NO	NO
DhC	DOWNER-HAMMONTON SANDY LOAM, 5 TO 10 PERCENT	B	.17	NO	NO	NO	NO
CrD	CROOM AND EVESBORO SOILS, 10 TO 15 PERCENT SLOPES	C	.37	NO	NO	NO	YES

NOTE:
-SUPER SILT FENCE IS TO BE REPLACED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
-SILT FENCE SHALL BE CURLED UPHILL NO MORE THAN 25' APART.
-DOUBLE ROWS OF SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING CURB AND CUTTER
- EXISTING TREELINE
- EXISTING TREES
- EXISTING STREET LIGHT
- EX. FIRE HYDRANT
- EX. WATER VALVE
- EXISTING WETLANDS
- EX. FOREST CONSERVATION EASEMENT (RETENTION) (PLAT # 22345 - L19507/F.00250)
- EX. FOREST CONSERVATION EASEMENT (PRESERVATION) (PLAT # 22345 & 22485 - L19507/F.00250)
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT NO. 10926/SOP-09-021)
- HIGHLY ERODIBLE SOILS
- BAFFLE BOARDS
- GABION INLET PROTECTION
- SILT FENCE ON PAVEMENT
- SUPER SILT FENCE
- GABION INFLOW PROTECTION
- INITIAL SEDIMENT CONTROL DRAINAGE DIVIDE

OWNER/DEVELOPER: NO AS-BUILT INFORMATION ON THIS SHEET
MLW,LLC
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 799-7223
TPCRACING@GMAIL.COM

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
EXISTING CONDITIONS AND DEMOLITION, INITIAL GRADING, EROSION AND SEDIMENT CONTROL PLAN
TPC RACING
7889 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371

TAX MAP 43 GRID 22
1ST ELECTION DISTRICT

VOGEL ENGINEERING
⊕
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

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. 16193.

DESIGN BY: GAH/OB
DRAWN BY: GAH/OB
CHECKED BY: RHY
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-76/43575

ROBERT H. VOGL, PE No. 16193

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Designed by: *Chad Edmondson* 3/30/2022
OTHER DEVELOPMENT ENGINEERING DIVISION DATE
3/30/2022
CHIEF DIVISION OF LAND DEVELOPMENT DATE
3/30/2022
DIRECTOR DATE

OWNER/DEVELOPER CERTIFICATION:
I, HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

Designed by: *Michael Levitas* 3/7/2022
OWNER/DEVELOPER SIGNATURE: *Michael Levitas* (DATE)
PRINTED NAME & TITLE: *Michael Levitas partner*

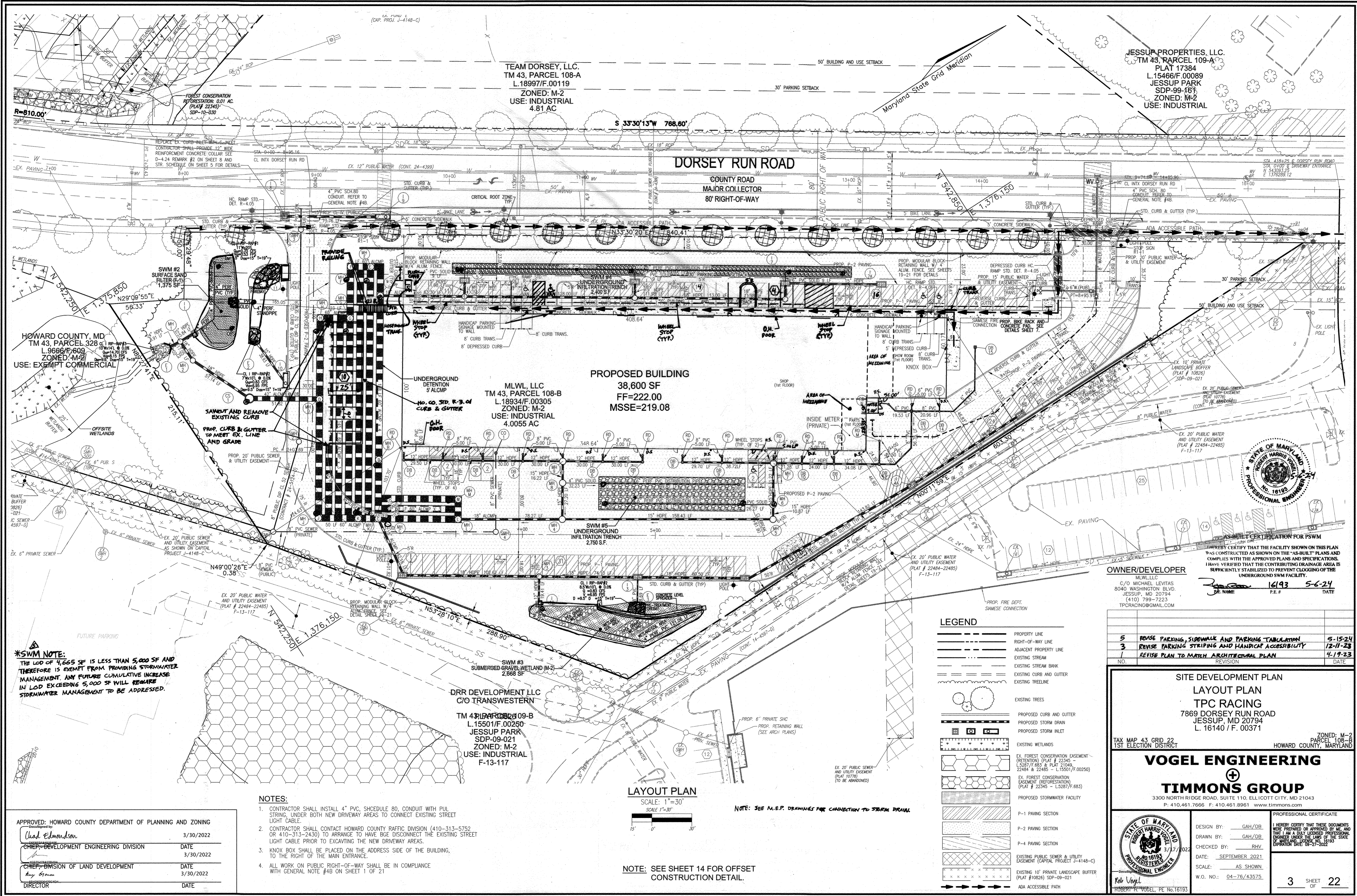
DESIGN CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Designed by: *Rob Vogt* 3/7/2022
DESIGNER'S SIGNATURE: *Rob Vogt* (DATE)
ROBERT H. VOGL, P.E. No. 16193
PRINTED NAME

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Designed by: *Alexander Bratchik* 3/29/2022
HOWARD S.C.D. DATE

NOTE:
STABILIZATION IS TO BE DONE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS REQUIRED BY THE 2011 STDS. & SPECS, WHICHEVER IS MORE RESTRICTIVE.



TEAM DORSEY, LLC.
 TM 43, PARCEL 108-A
 L. 18997/F.00119
 ZONED: M-2
 USE: INDUSTRIAL
 4.81 AC

JESSUP PROPERTIES, LLC.
 TM 43, PARCEL 109-A
 PLAT 17384
 L. 15466/F.00089
 JESSUP PARK
 SDP-99-161
 ZONED: M-2
 USE: INDUSTRIAL

DORSEY RUN ROAD

COUNTY ROAD
 MAJOR COLLECTOR
 80' RIGHT-OF-WAY

PROPOSED BUILDING
 38,600 SF
 FF=222.00
 MSSE=219.08

MLWL, LLC
 TM 43, PARCEL 108-B
 L. 18934/F.00305
 ZONED: M-2
 USE: INDUSTRIAL
 4.0055 AC

HOWARD COUNTY, MD
 TM 43, PARCEL 328
 L. 9668/F.609
 ZONED: M-2
 USE: EXEMPT COMMERCIAL

DRR DEVELOPMENT LLC
 C/O TRANSWESTERN
 TM 43, PARCEL 109-B
 L. 15501/F.00250
 JESSUP PARK
 SDP-09-021
 ZONED: M-2
 USE: INDUSTRIAL
 F-13-117

LAYOUT PLAN

SCALE: 1"=30'
 SCALE 1"=30'

NOTE: SEE M.E.P. DRAWINGS FOR CONNECTION TO STORM DRAIN

NOTE: SEE SHEET 14 FOR OFFSET CONSTRUCTION DETAIL.

NOTES:

- CONTRACTOR SHALL INSTALL 4" PVC, SCHEDULE 80, CONDUIT WITH PUL STRING, UNDER BOTH NEW DRIVEWAY AREAS TO CONNECT EXISTING STREET LIGHT CABLE.
- CONTRACTOR SHALL CONTACT HOWARD COUNTY TRAFFIC DIVISION (410-313-5752 OR 410-313-2430) TO ARRANGE TO HAVE BGE DISCONNECT THE EXISTING STREET LIGHT CABLE PRIOR TO EXCAVATING THE NEW DRIVEWAY AREAS.
- KNOX BOX SHALL BE PLACED ON THE ADDRESS SIDE OF THE BUILDING, TO THE RIGHT OF THE MAIN ENTRANCE.
- ALL WORK ON PUBLIC RIGHT-OF-WAY SHALL BE IN COMPLIANCE WITH GENERAL NOTE #4B ON SHEET 1 OF 21

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Designed by: *Chad Edmondson* 3/30/2022
 CHIEF DEVELOPMENT ENGINEERING DIVISION DATE 3/30/2022
 CHIEF DIVISION OF LAND DEVELOPMENT DATE 3/30/2022
 DIRECTOR DATE

***SWM NOTE:**
 THE LOD OF 4,665 SF IS LESS THAN 5,000 SF AND THEREFORE IS EXEMPT FROM PROVIDING STORMWATER MANAGEMENT. ANY FUTURE CUMULATIVE INCREASE IN LOD EXCEEDING 5,000 SF WILL REQUIRE STORMWATER MANAGEMENT TO BE ADDRESSED.

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING CURB AND GUTTER
- EXISTING TREELINE
- EXISTING TREES
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EXISTING WETLANDS
- EX. FOREST CONSERVATION EASEMENT (RETENTION) (PLAT # 22345 - L.5287/F.683 & PLAT 21049, 22484 & 22485 - L.15501/F.00250)
- EX. FOREST CONSERVATION EASEMENT (REFORESTATION) (PLAT # 22345 - L.5287/F.683)
- PROPOSED STORMWATER FACILITY
- P-1 PAVING SECTION
- P-2 PAVING SECTION
- P-4 PAVING SECTION
- EXISTING PUBLIC SEWER & UTILITY EASEMENT (CAPITAL PROJECT J-4148-C)
- EXISTING 10' PRIVATE LANDSCAPE BUFFER (PLAT #10826) SDP-09-021
- ADA ACCESSIBLE PATH

OWNER/DEVELOPER
 MLWL, LLC
 C/O MICHAEL LEVITAS
 8040 WASHINGTON BLVD.
 JESSUP, MD 20794
 (410) 799-7223
 TPCRACING@GMAIL.COM

DATE: 5-6-24
 P.E. # 16193
 DE. NAME: [Signature]

NO.	REVISION	DATE
5	REVISE PARKING, SIDEWALK AND PARKING TABULATION	5-15-24
3	REVISE PARKING STRIPING AND HANDICAP ACCESSIBILITY	12-11-23
1	REVISE PLAN TO MATCH ARCHITECTURAL PLAN	4-19-23

SITE DEVELOPMENT PLAN
LAYOUT PLAN
TPC RACING
 7869 DORSEY RUN ROAD
 JESSUP, MD 20794
 L. 16140 / F. 00371

TAX MAP 43, GRID 22
 1ST ELECTION DISTRICT

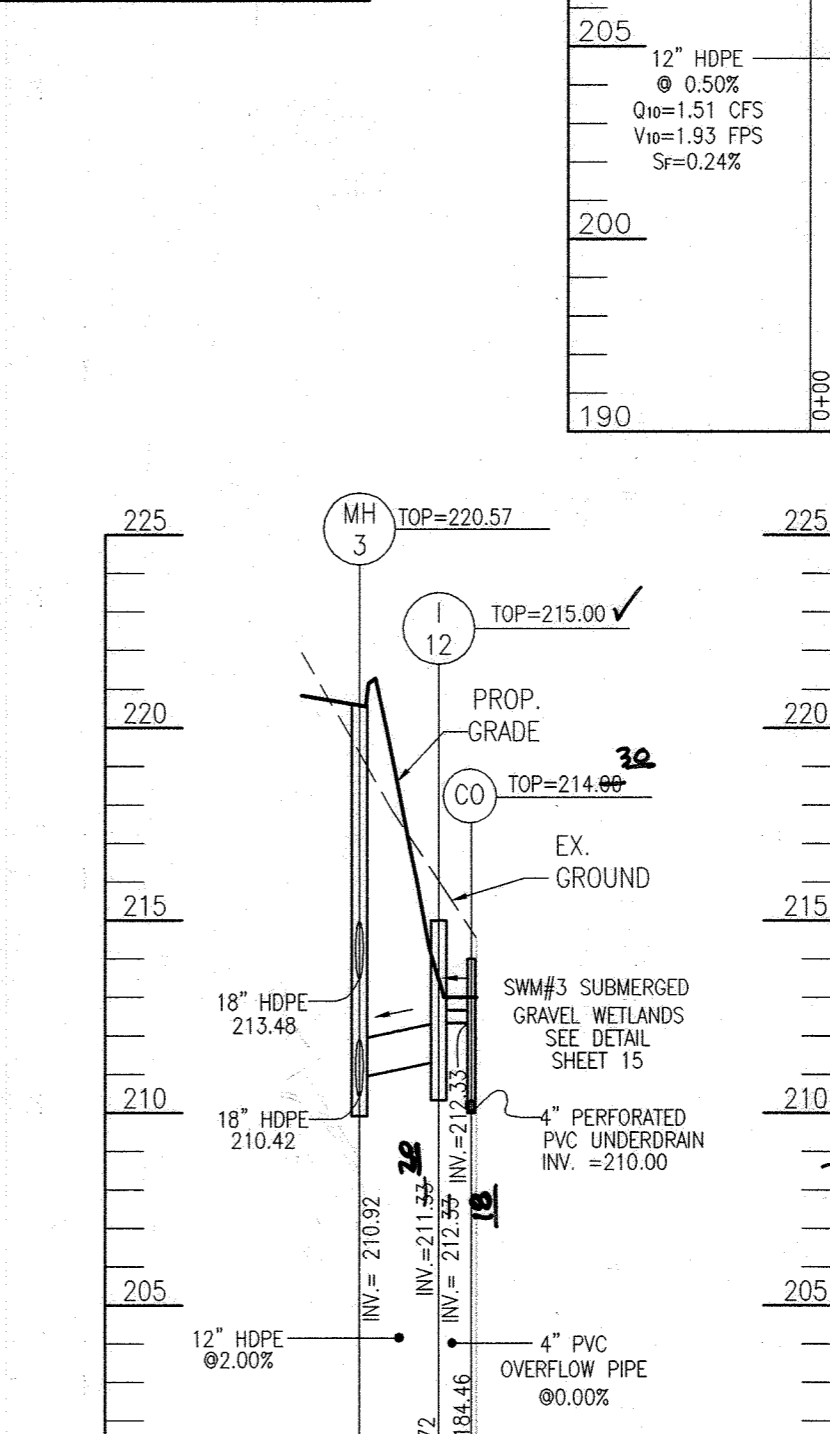
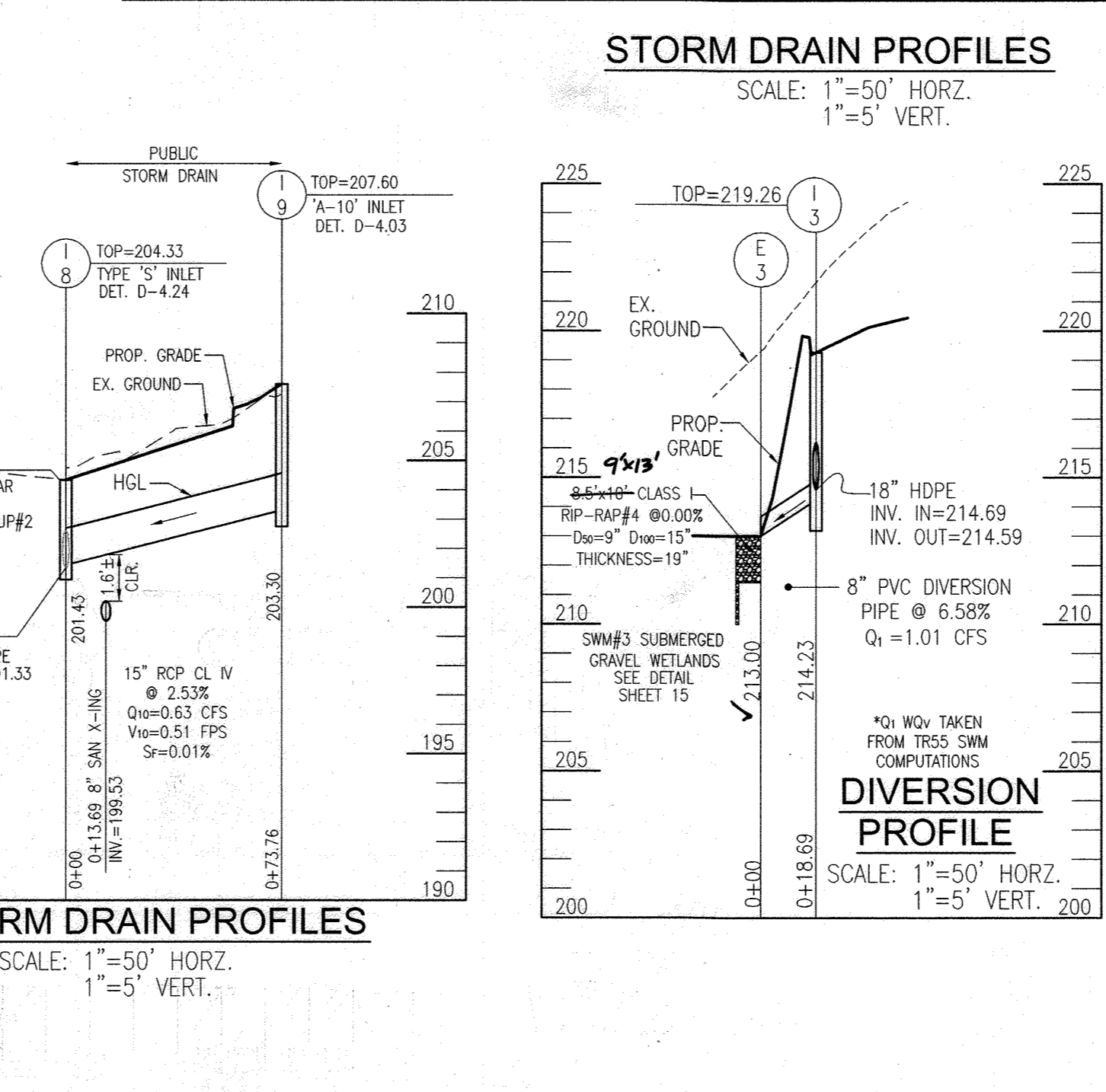
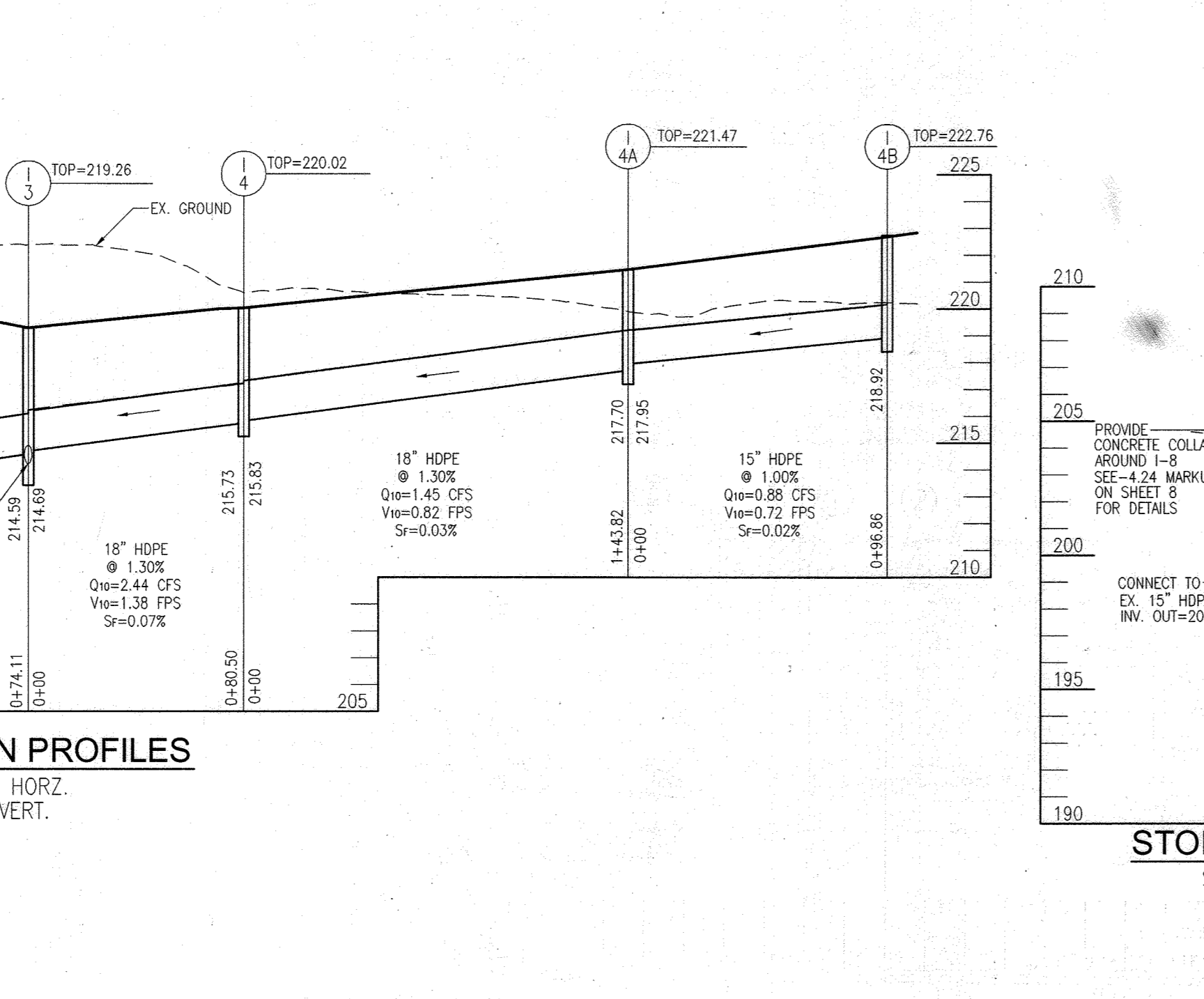
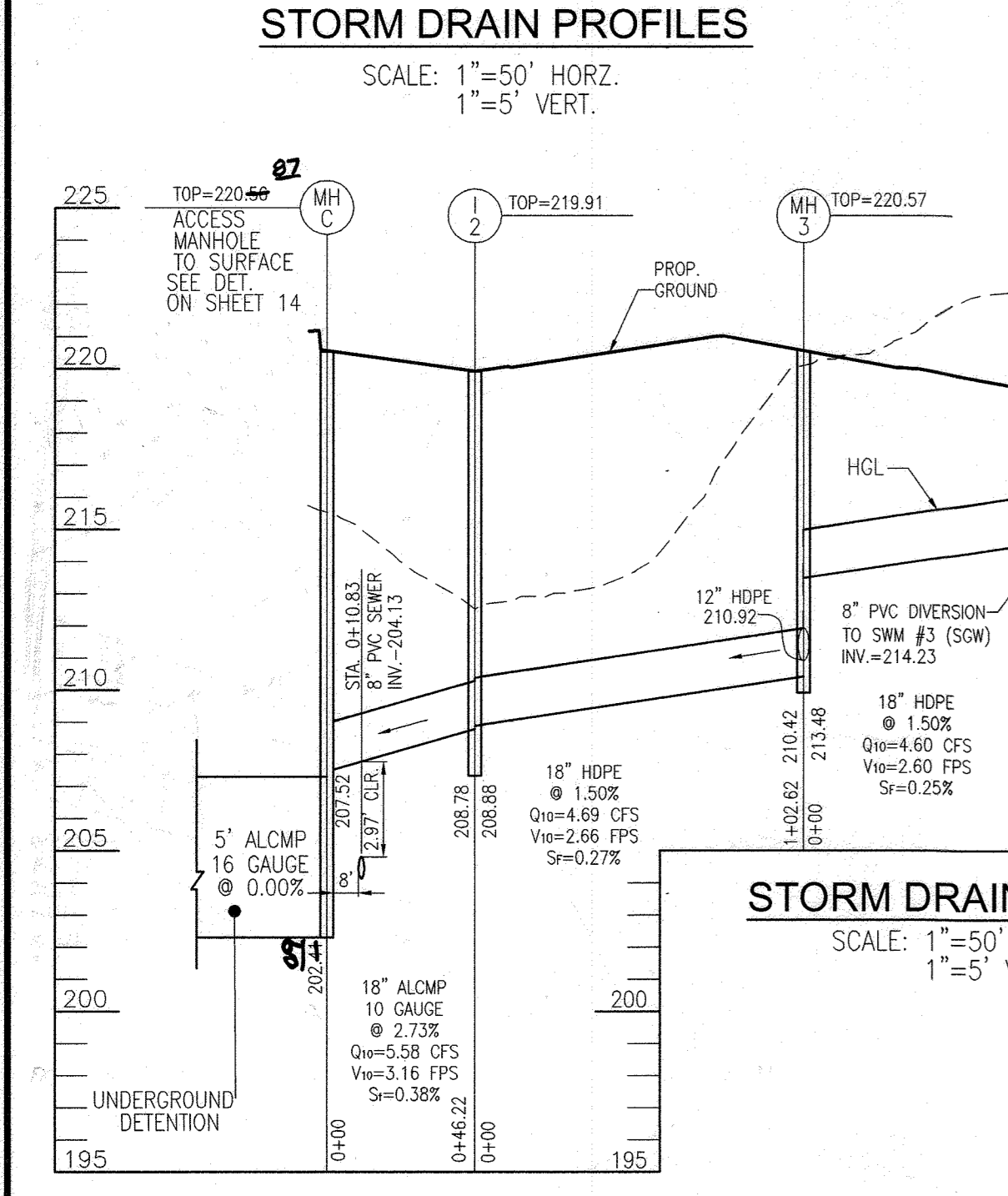
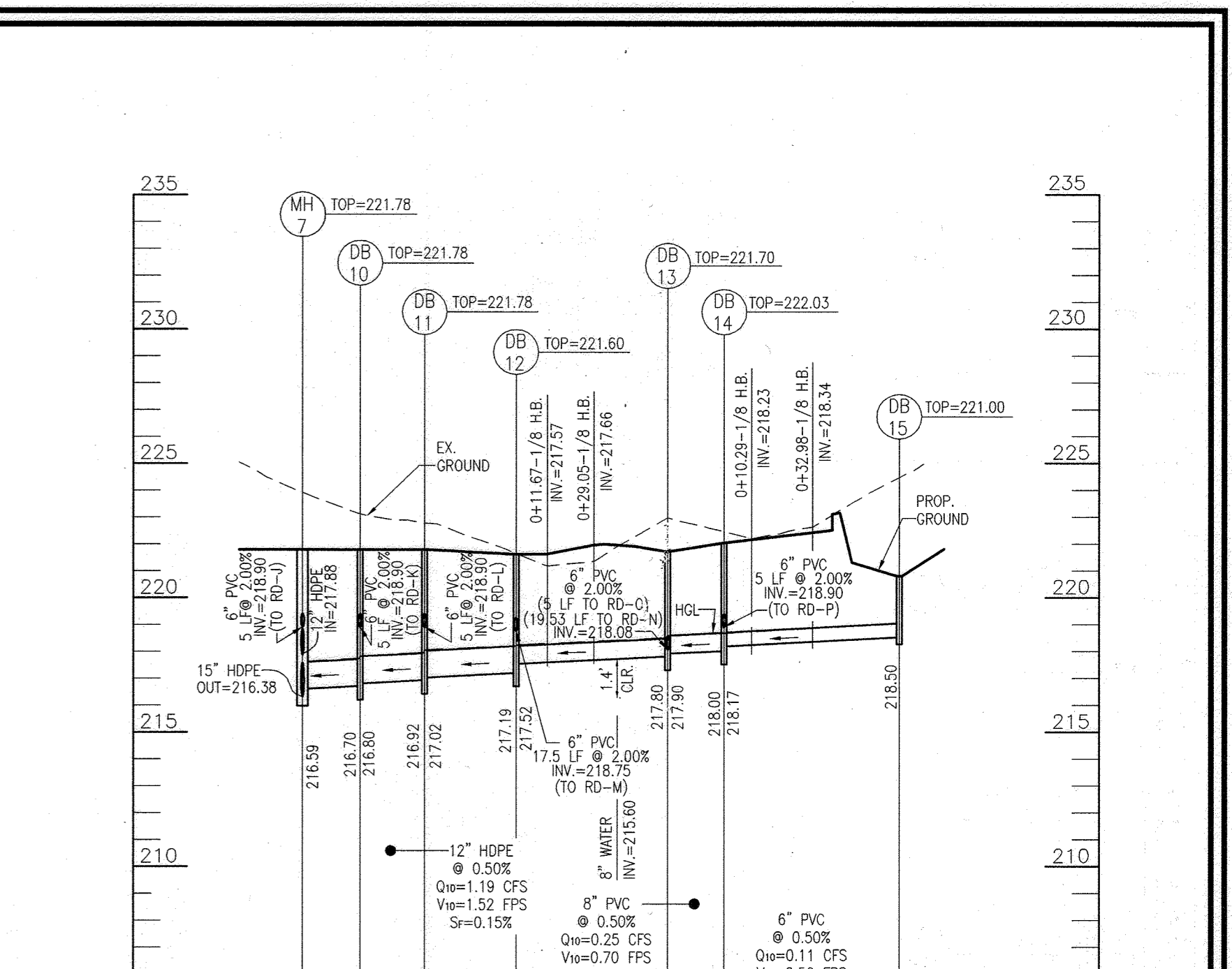
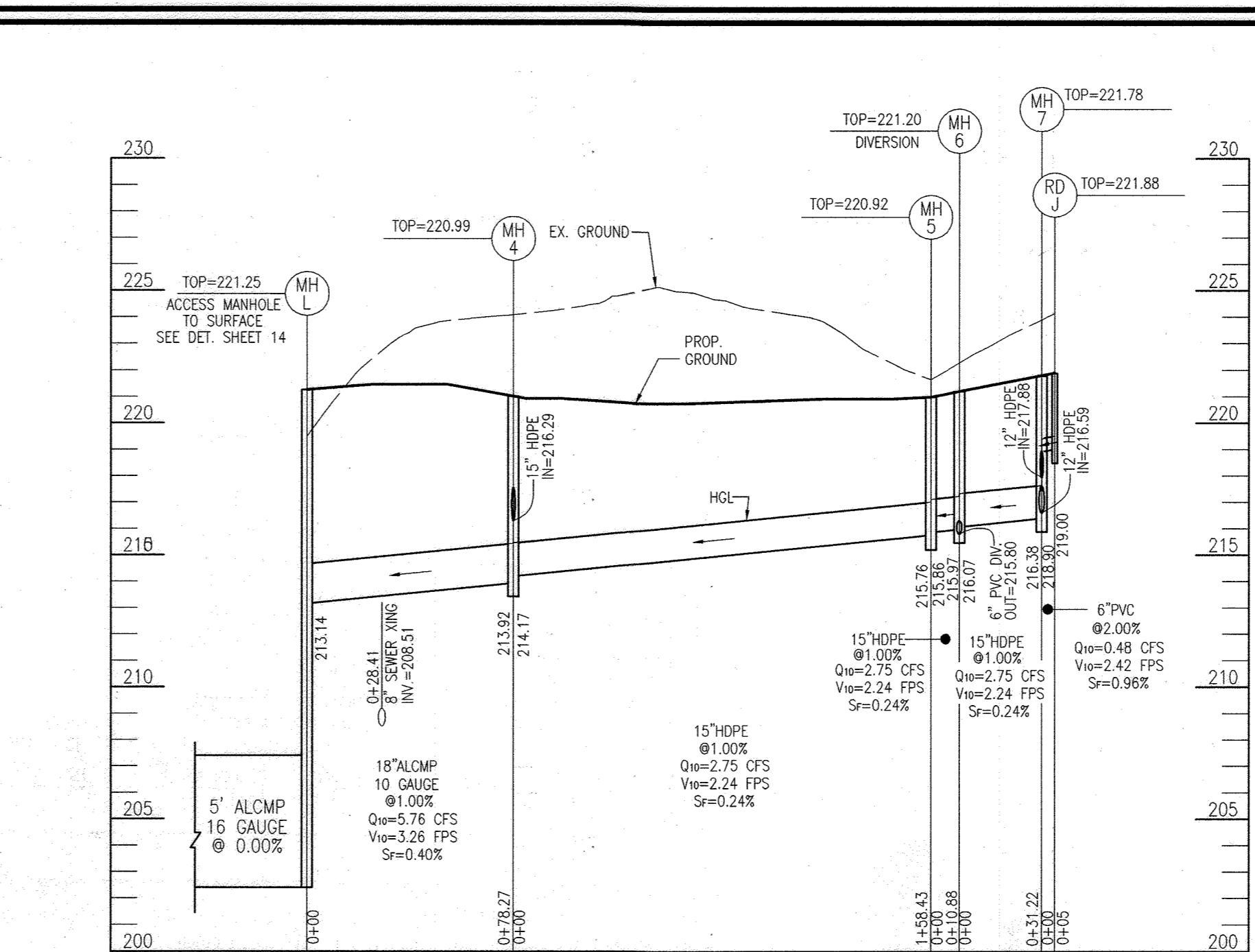
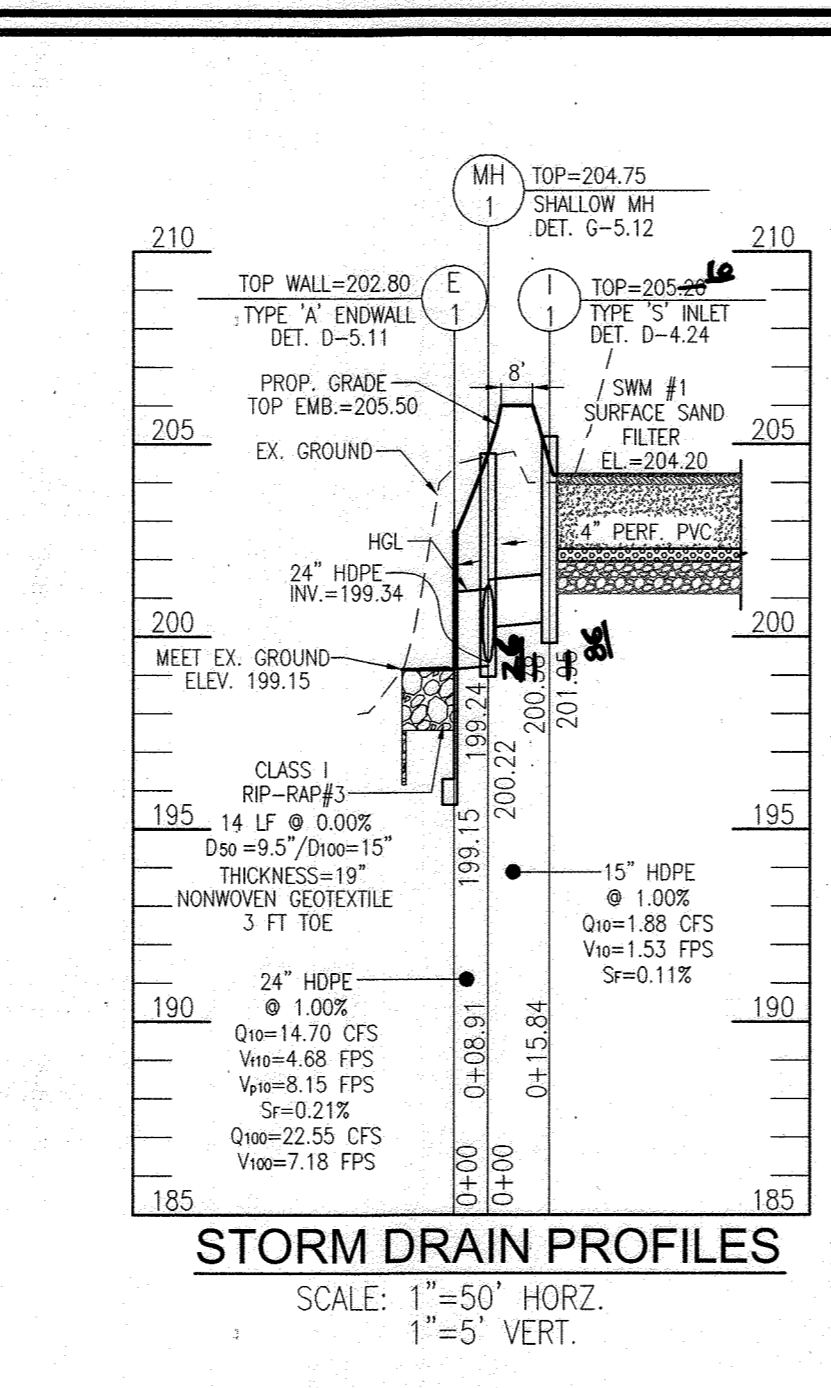
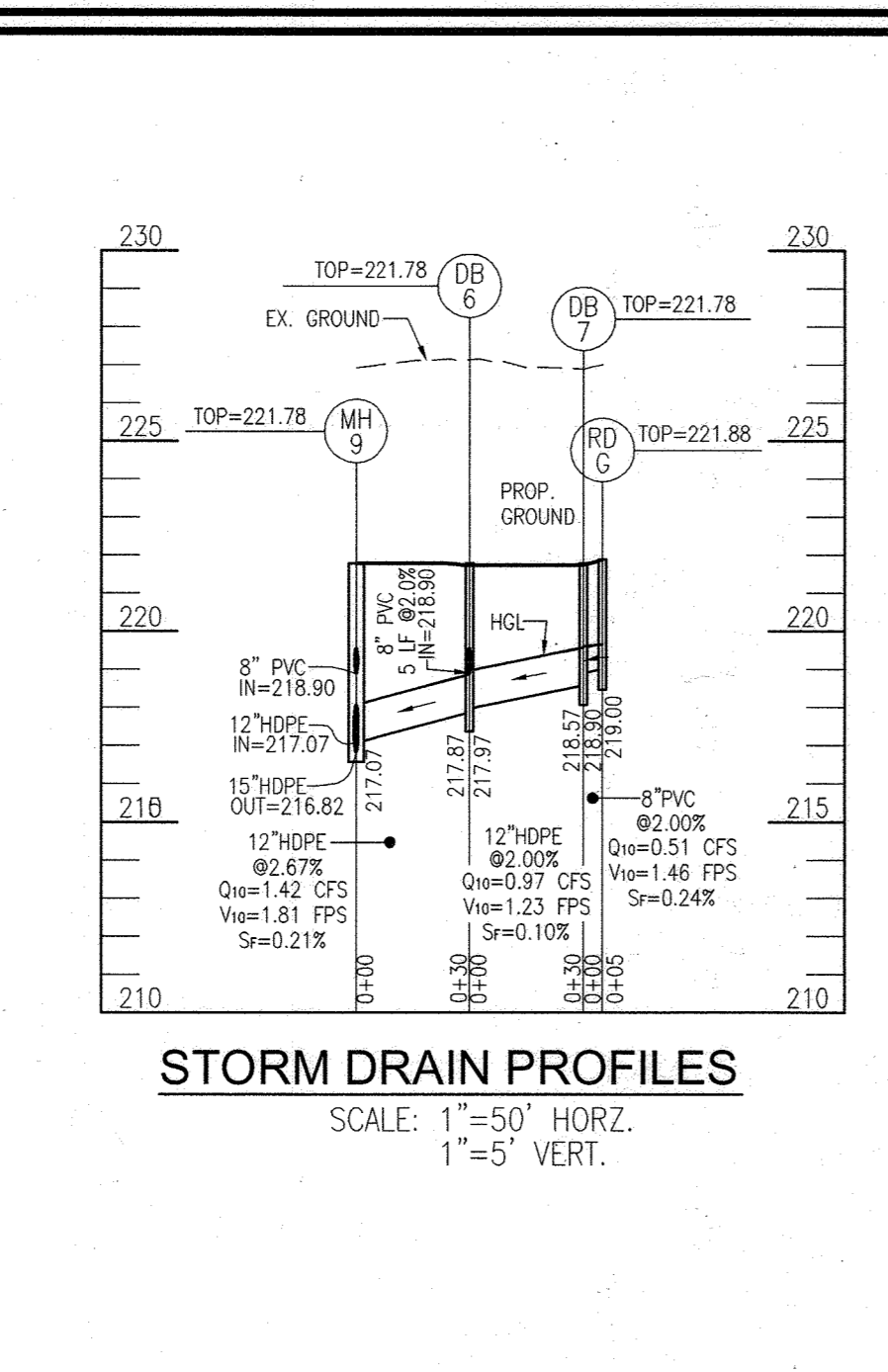
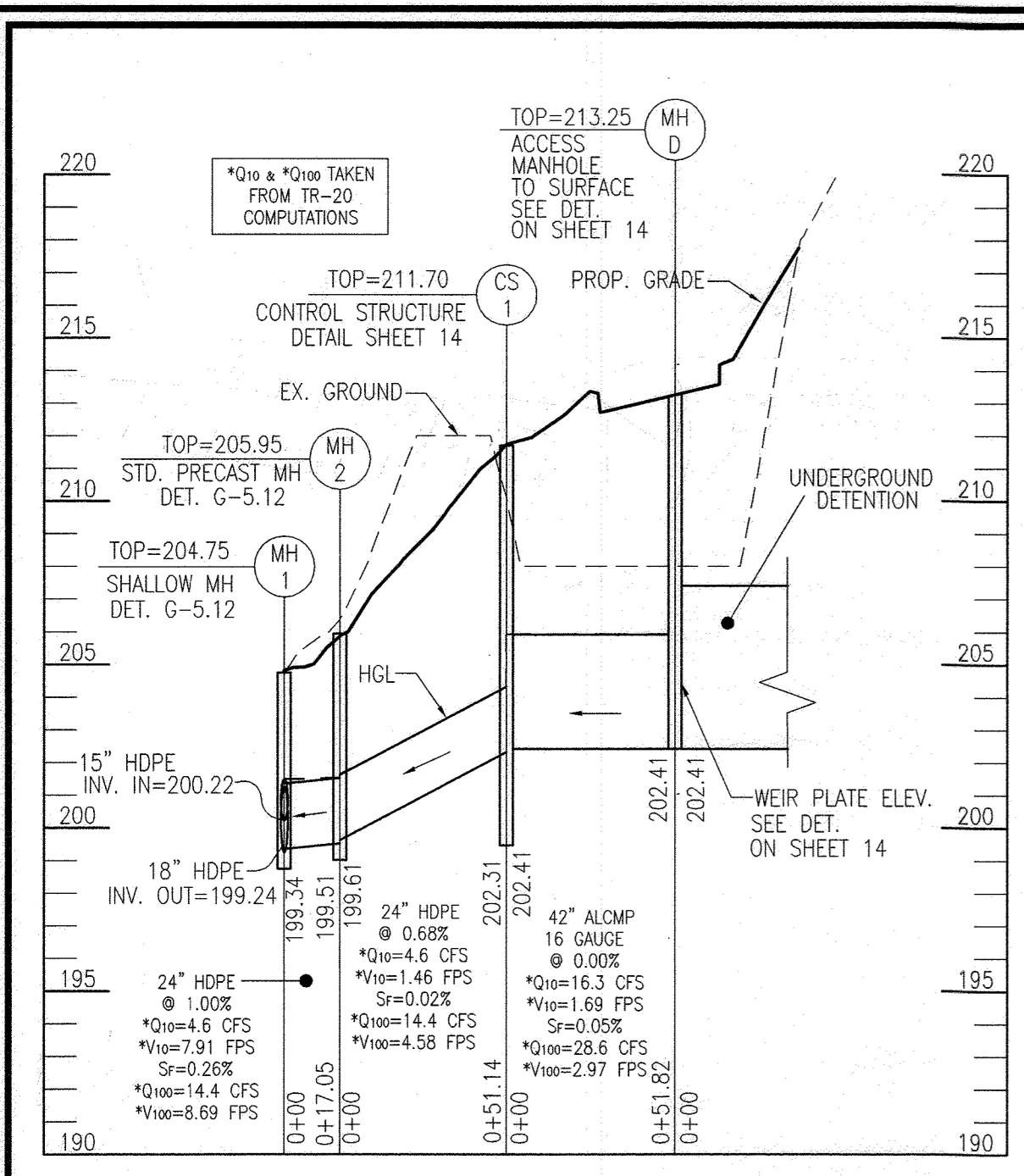
ZONED: M-2
 PARCEL 108-B
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
 DESIGN BY: GAH/OB
 DRAWN BY: GAH/OB
 CHECKED BY: RHV
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 W.O. NO.: 04-76/43575

PROFESSIONAL CERTIFICATE
 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. 16193, EXPIRATION DATE 09-27-2022.

3 SHEET OF 22



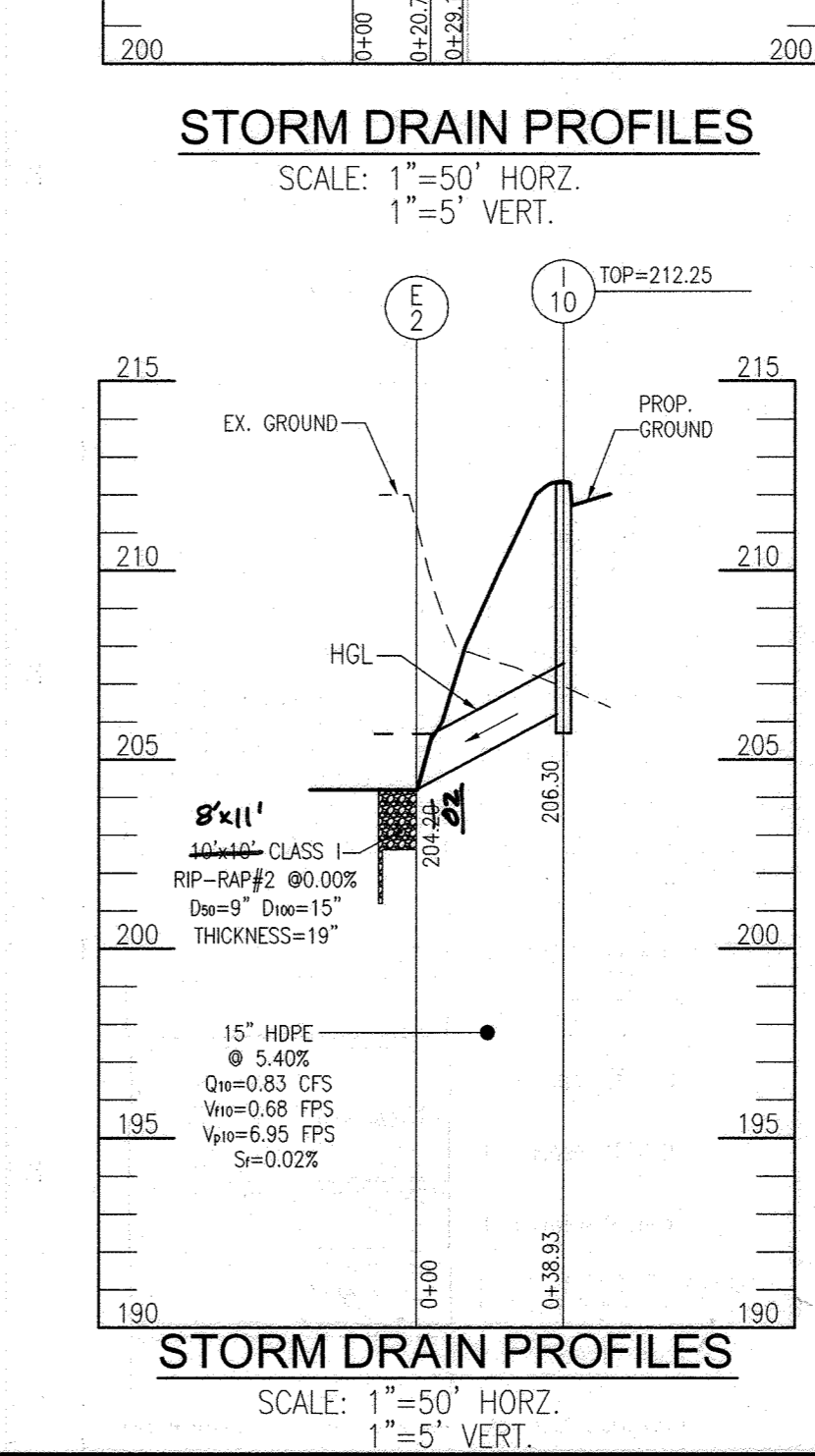
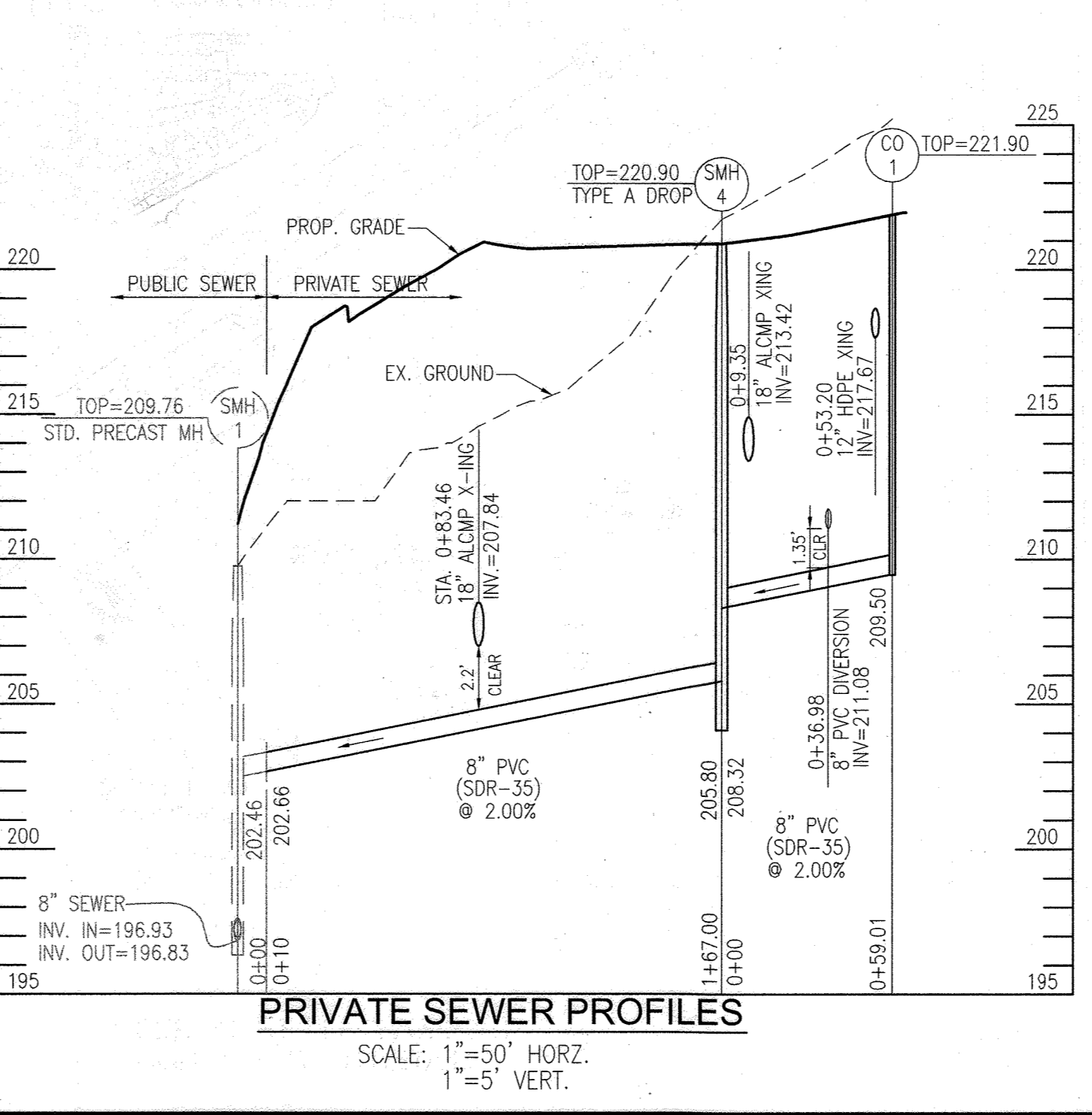
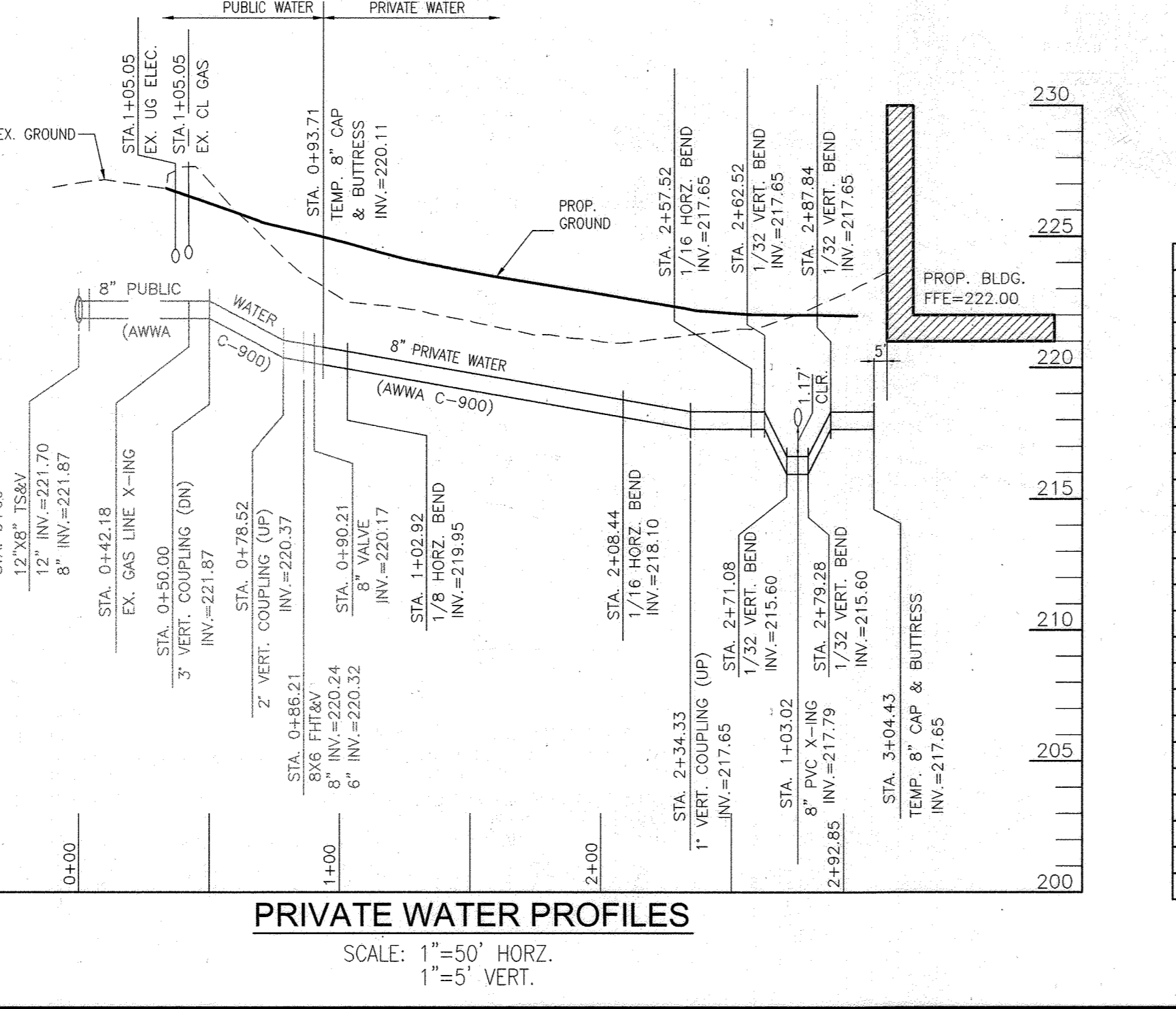
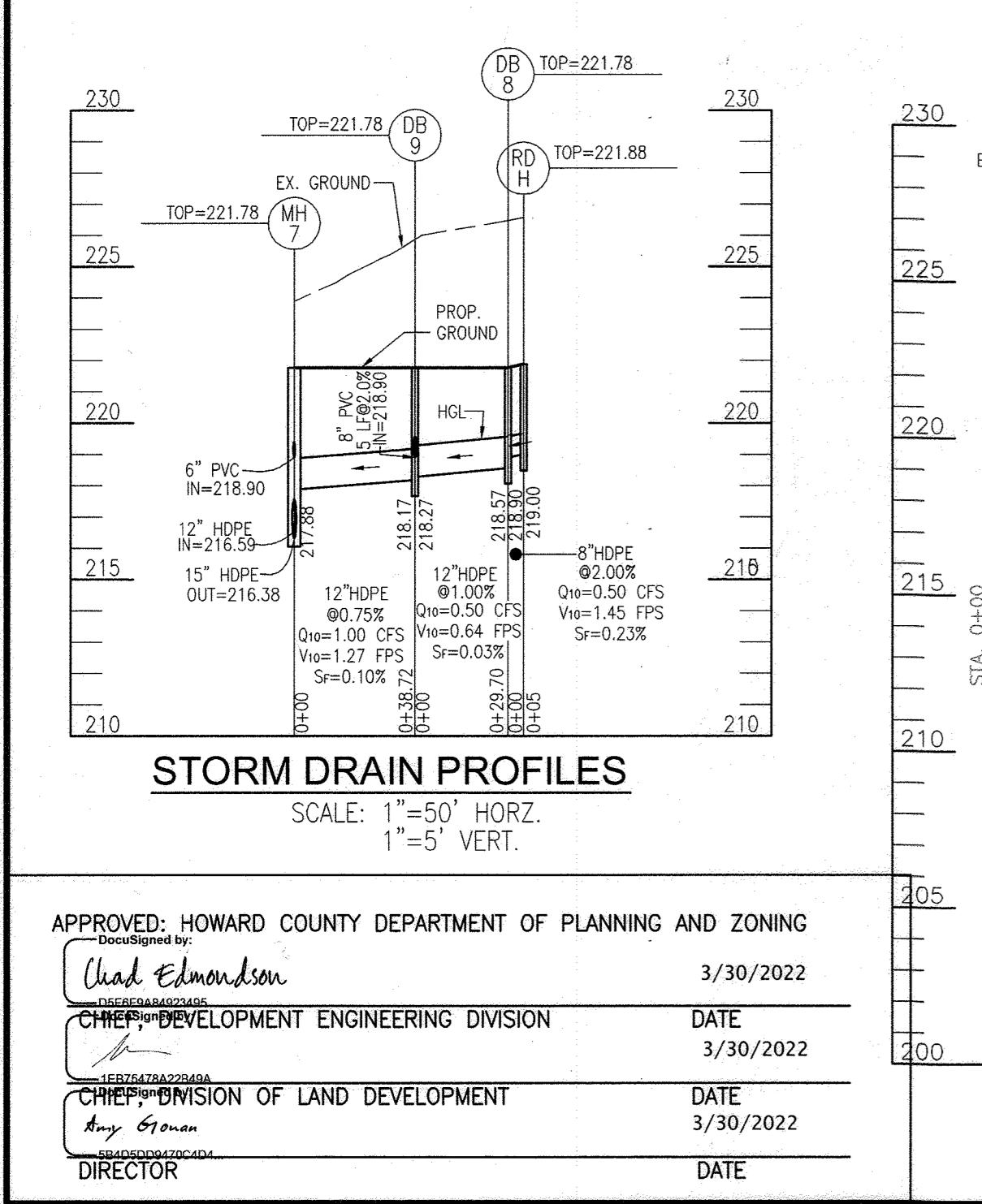
STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.

STATE OF MARYLAND
ROBERT HARRIS VOGEL
PROFESSIONAL ENGINEER
NO. 16193

AS-BUILT CERTIFICATION FOR PSWM
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

OWNER/DEVELOPER
M.V.L.L.L.C.
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 793-7223
TPCRACING@GMAIL.COM

DATE: 5-6-24
PI.E.#: 16193



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Designed by: Chad Edmondson 3/30/2022
Checked by: CHEF/DEVELOPMENT ENGINEERING DIVISION DATE 3/30/2022
Checked by: CHIEF/DIVISION OF LAND DEVELOPMENT DATE 3/30/2022
Checked by: Any Goman DATE 3/30/2022

SITE DEVELOPMENT PLAN
STORM DRAIN AND PRIVATE UTILITY PROFILES
TPC RACING
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371

TAX MAP 43, GRID 22
1ST ELECTION DISTRICT

ZONED: M-2
PARCEL 108-B
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

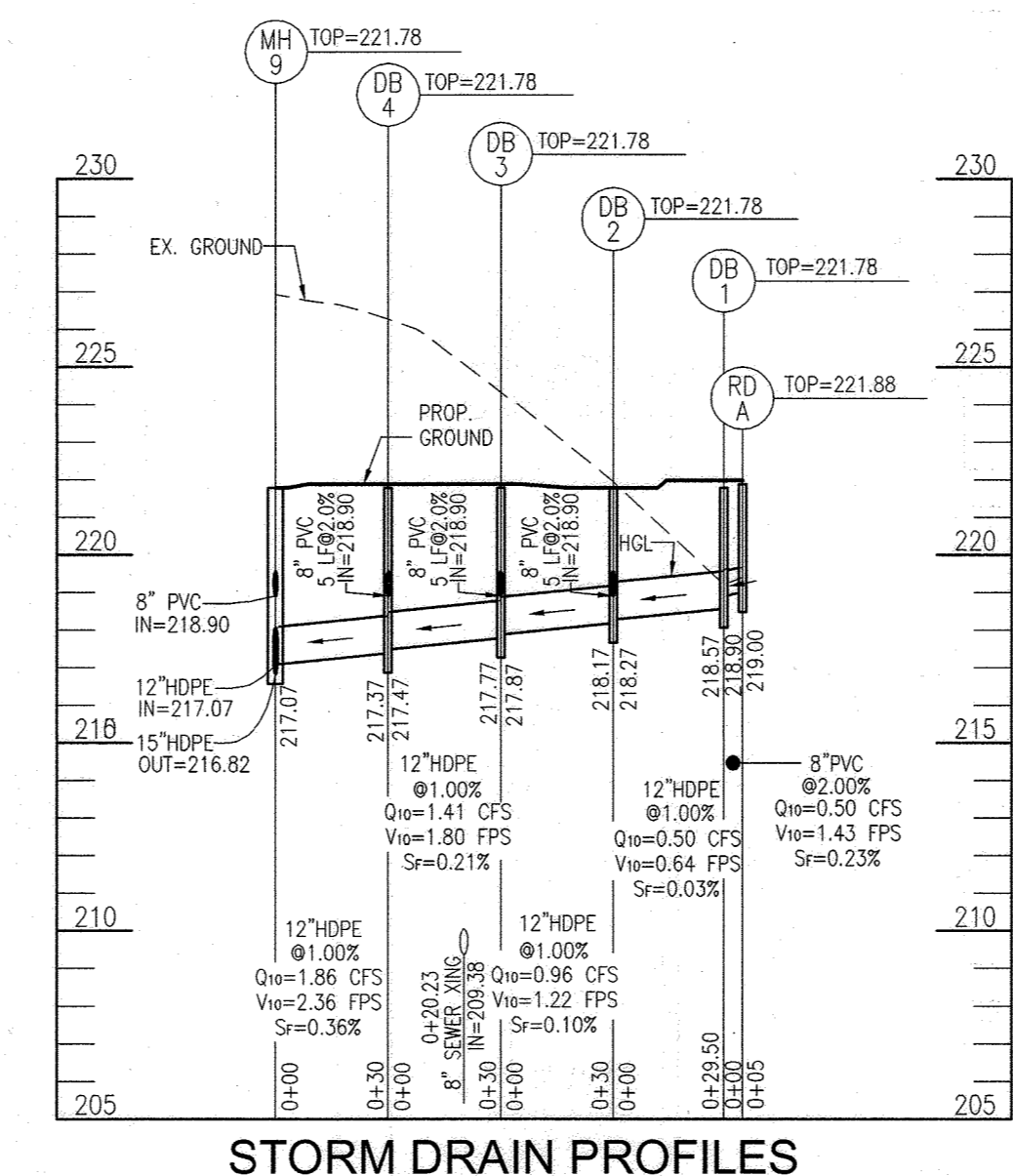
PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
EXPIRATION DATE: 09-2-2022

DESIGN BY: GAH/OB
DRAWN BY: GAH/OB
CHECKED BY: RHV
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-76/43575

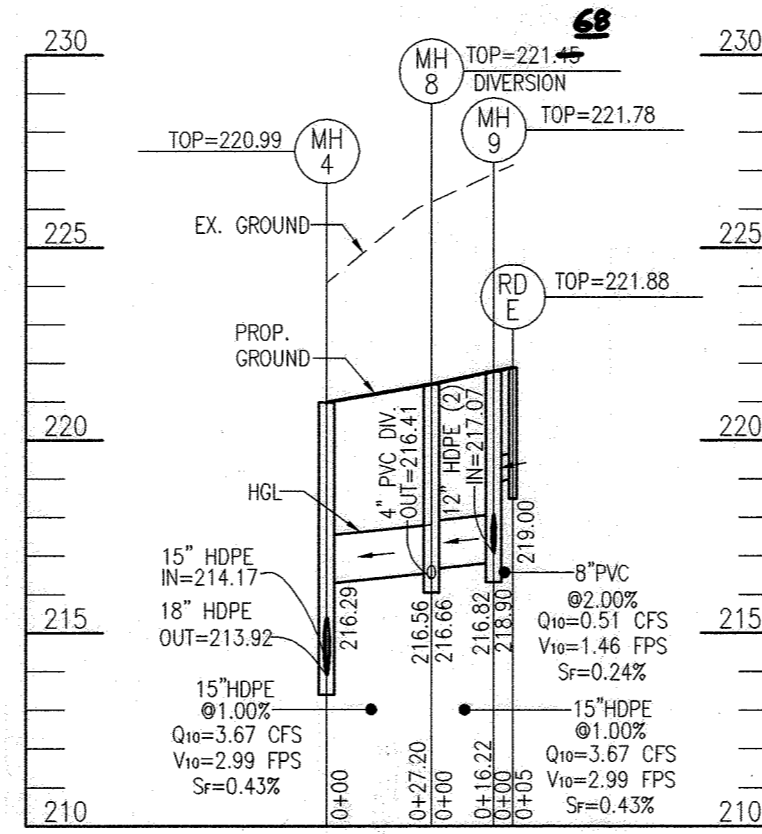
4 SHEET OF 22

STORM DRAIN STRUCTURE SCHEDULE

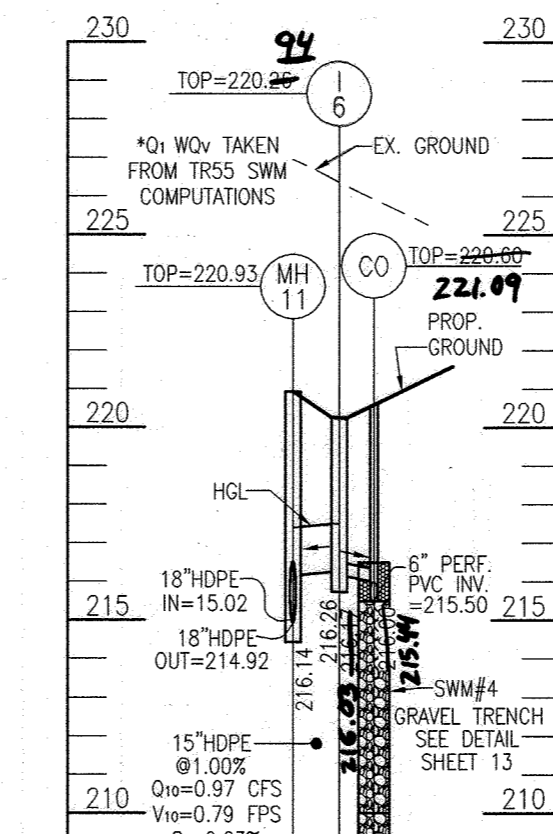
STR #	TYPE	INV. IN	INV. OUT	TOP ELEV	DETAIL	LOCATION	REMARKS
I-1	S-INLET	201.96	200.80	205.26	D-4.24	N 542313.06 E 1375911.22	(1)
I-2	COMB. DOUBLE S-INLET	208.88	208.78	219.91	D-4.26	N 542345.48 E 1376245.86	(1)
I-3	COMB. DOUBLE S-INLET	214.69	214.59 / 214.23	219.26	D-4.26	N 542492.85 E 1376192.28	(1)
I-4	COMB. DOUBLE S-INLET	215.83	215.73	220.02	D-4.26	N 542559.98 E 1376290.27	(1)
I-4A	COMB. DOUBLE S-INLET	217.95	217.70	221.47	D-4.26	N 542703.46 E 1376300.22	(1)
I-4B	COMB. DOUBLE S-INLET	---	---	222.76	D-4.26	N 542800.32 E 1376300.22	(1)
I-5	DOUBLE S-INLET	---	216.87 / 216.10	220.86	D-4.25	N 542504.70 E 1375988.62	(1) DIVERSION STRUCTURE
I-6	DOUBLE S-INLET	---	216.23 / 215.14	220.26	D-4.25	N 542611.43 E 1376059.27	(1) DIVERSION STRUCTURE
I-7	DOUBLE S-INLET	215.77	215.60	221.40	D-4.25	N 542705.63 E 1376121.69	(1) DIVERSION STRUCTURE
I-7A	DOUBLE S-INLET	---	---	222.00	D-4.25	N 542765.70 E 1376161.39	(1)
I-8	S-INLET	201.43	201.33	204.33	D-4.24	N 542417.35 E 1375874.74	(1) PROVIDE 12" CONCRETE COLLAR
I-9	A-10	---	203.30	207.60	D-4.03	N 542479.03 E 1375915.19	(1) 3.84' OUTSIDE WIDTH
I-10	A-10	---	206.30	212.25	D-4.03	N 542351.05 E 1375978.11	(1) 3.84' OUTSIDE WIDTH
I-11	FLOW THROUGH INLET	---	---	208.99	D-4.35	N 542395.04 E 1375909.71	(1) 6' OUTSIDE WIDTH
I-12	S-INLET	212.80	211.80	215.00	D-4.24	N 542419.53 E 1376222.17	(1)
E-1	TYPE 'A' ENDWALL - 24" PIPE	199.15	---	202.75	D-5.11	N 542291.58 E 1375909.88	(2)
E-2	15" HDPE END SECTION	204.40	---	---	---	N 542348.14 E 1375940.96	(2) ADVANCED DRAINAGE SYSTEMS
E-3	8" PVC PIPE END	213.00	---	---	---	N 542482.44 E 1376261.38	(2) ADVANCED DRAINAGE SYSTEMS
MH-1	48" SHALLOW PRECAST MANHOLE	200.22 / 199.34	199.24	204.75	G-5.12	N 542300.46 E 1375910.78	(1)
MH-2	48" STANDARD PRECAST MANHOLE	199.61	199.51	205.95	G-5.12	N 542300.62 E 1375927.83	(1)
MH-3	48" STANDARD PRECAST MANHOLE	213.48 / 210.92	210.42	220.57	G-5.12	N 542431.05 E 1376204.96	(1)
MH-4	48" STANDARD PRECAST MANHOLE	216.29 / 214.17	213.92	220.99	G-5.12	N 542468.91 E 1376178.49	(1)
MH-5	48" STANDARD PRECAST MANHOLE	215.86	215.76	220.82	G-5.12	N 542801.74 E 1376264.84	(1)
MH-6	48" STANDARD PRECAST MANHOLE	216.07	215.97 / 215.80	221.80	G-5.12	N 542807.74 E 1376255.78	(1) DIVERSION STRUCTURE
MH-7	48" STANDARD PRECAST MANHOLE	218.90 / 217.88 / 216.59	216.38	221.78	G-5.12	N 542624.96 E 1376229.74	(1)
MH-8	48" STANDARD PRECAST MANHOLE	216.66	216.56 / 216.41	221.45	G-5.12	N 542483.92 E 1376155.81	(1) DIVERSION STRUCTURE
MH-9	48" STANDARD PRECAST MANHOLE	218.90 / 217.07 (2)	216.82	221.78	G-5.12	N 542492.87 E 1376142.29	(1)
MH-10	48" STANDARD PRECAST MANHOLE	216.14 / 214.28	214.18	220.93	G-5.12	N 542498.09 E 1375998.61	(1)
MH-11	48" STANDARD PRECAST MANHOLE	216.14 / 215.02	214.92	220.93	G-5.12	N 542804.82 E 1376069.26	(1)
MH-12	48" STANDARD PRECAST MANHOLE	215.69	215.59	220.96	G-5.12	N 542699.05 E 1376131.64	(1)
MH-A	48" ALCMP 10 GAUGE MANHOLE	211.02	202.44	214.14	G-5.12	N 542445.31 E 1375963.67	(1)
MH-B	48" ALCMP 10 GAUGE MANHOLE	202.41	202.41	220.25	G-5.12	N 542451.92 E 1376065.97	(1)
MH-C	48" ALCMP 10 GAUGE MANHOLE	207.52	202.44	220.56	G-5.12	N 542353.24 E 1376102.74	(1)
MH-D	48" ALCMP 10 GAUGE MANHOLE	202.41	202.41	213.25	G-5.12	N 542364.83 E 1376003.70	204.41 - WEIR PLATE CREST ELEV.
MH-E	48" ALCMP 10 GAUGE MANHOLE	202.41	202.44	214.00	G-5.12	N 542451.07 E 1375941.72	(1)
MH-F	48" ALCMP 10 GAUGE MANHOLE	202.41	202.44	211.66	G-5.12	N 542438.40 E 1375933.34	(1)
MH-G	48" ALCMP 10 GAUGE MANHOLE	202.41	202.41	214.00	G-5.12	N 542417.12 E 1375865.48	(1)
MH-H	48" ALCMP 10 GAUGE MANHOLE	202.41	202.41	209.15	G-5.12	N 542398.35 E 1375853.06	(1)
MH-I	48" ALCMP 10 GAUGE MANHOLE	202.41	202.44	211.77	G-5.12	N 542315.72 E 1376077.90	(1)
MH-J	48" ALCMP 10 GAUGE MANHOLE	202.41	202.44	219.60	G-5.12	N 542340.68 E 1376094.42	(1)
MH-L	48" ALCMP 10 GAUGE MANHOLE	213.14	202.41	221.25	G-5.12	N 542403.27 E 1376135.86	(1)
MH-M	48" ALCMP 10 GAUGE MANHOLE	202.41	202.41	221.43	G-5.12	N 542411.55 E 1376123.35	(1)
CS-1	72" MODIFIED MD SHA STD.384.05	202.41	202.31	211.70	G-5.12	N 542321.04 E 1375974.71	(1) CAST-IN-PLACE; 202.41 & 203.41 - WEIR CREST ELEV.
DB-1	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90	218.57	221.78	---	N 542393.23 E 1376076.33	(1) ADVANCED DRAINAGE SYSTEMS
DB-2	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.9 / 218.27	218.17	221.78	---	N 542417.83 E 1376092.61	(1) ADVANCED DRAINAGE SYSTEMS
DB-3	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90 / 217.87	217.77	221.78	---	N 542442.84 E 1376109.17	(1) ADVANCED DRAINAGE SYSTEMS
DB-4	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90 / 217.47	217.37	221.78	---	N 542467.86 E 1376125.73	(1) ADVANCED DRAINAGE SYSTEMS
DB-6	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90 / 217.97	217.87	221.78	---	N 542517.89 E 1376158.85	(1) ADVANCED DRAINAGE SYSTEMS
DB-7	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90	218.57	221.78	---	N 542542.90 E 1376175.41	(1) ADVANCED DRAINAGE SYSTEMS
DB-8	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90	218.57	221.78	---	N 542567.92 E 1376191.97	(1) ADVANCED DRAINAGE SYSTEMS
DB-9	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90 / 218.27	218.17	221.78	---	N 542592.69 E 1376208.37	(1) ADVANCED DRAINAGE SYSTEMS
DB-10	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90 / 216.80	216.70	221.78	---	N 542642.72 E 1376241.49	(1) ADVANCED DRAINAGE SYSTEMS
DB-11	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90 / 217.02	216.92	221.78	---	N 542662.73 E 1376254.73	(1) ADVANCED DRAINAGE SYSTEMS
DB-12	24" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.75 / 217.52	217.19	221.60	---	N 542691.15 E 1376273.55	(1) ADVANCED DRAINAGE SYSTEMS
DB-13	18" DRAIN BASIN W/ HEAVY DUTY GRATE TOP	218.08 / 217.90	217.80	221.70	---	N 542733.21 E 1376253.42	(1) ADVANCED DRAINAGE SYSTEMS
DB-14	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	218.90 / 218.17	218.00	222.03	---	N 542750.68 E 1376264.99	(1) ADVANCED DRAINAGE SYSTEMS
DB-15	18" DRAIN BASIN W/ GRATE TOP	---	218.50	221.00	---	N 542799.32 E 1376239.22	(1) ADVANCED DRAINAGE SYSTEMS
RD-A	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542395.99 E 1376072.16	(1) ADVANCED DRAINAGE SYSTEMS
RD-B	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542420.59 E 1376088.44	(1) ADVANCED DRAINAGE SYSTEMS
RD-C	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542445.60 E 1376105.00	(1) ADVANCED DRAINAGE SYSTEMS
RD-D	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542470.62 E 1376121.56	(1) ADVANCED DRAINAGE SYSTEMS
RD-E	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542495.63 E 1376138.12	(1) ADVANCED DRAINAGE SYSTEMS
RD-F	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542520.65 E 1376154.68	(1) ADVANCED DRAINAGE SYSTEMS
RD-G	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542545.66 E 1376171.24	(1) ADVANCED DRAINAGE SYSTEMS
RD-H	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542570.68 E 1376187.80	(1) ADVANCED DRAINAGE SYSTEMS
RD-I	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542595.45 E 1376204.20	(1) ADVANCED DRAINAGE SYSTEMS
RD-J	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542627.74 E 1376225.57	(1) ADVANCED DRAINAGE SYSTEMS
RD-K	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542645.48 E 1376237.32	(1) ADVANCED DRAINAGE SYSTEMS
RD-L	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.88	---	N 542665.49 E 1376250.56	(1) ADVANCED DRAINAGE SYSTEMS
RD-M	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	219.00	221.87	---	N 542702.47 E 1376256.45	(1) ADVANCED DRAINAGE SYSTEMS
RD-N	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	218.46	221.88	---	N 542718.49 E 1376237.68	(1) ADVANCED DRAINAGE SYSTEMS
RD-O	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	218.18	221.88	---	N 542735.97 E 1376249.25	(1) ADVANCED DRAINAGE SYSTEMS
RD-P	18" DRAIN BASIN W/ HEAVY DUTY SOLID TOP	---	218.04	221.88	---	N 542735.97 E 1376260.82	(1) ADVANCED DRAINAGE SYSTEMS



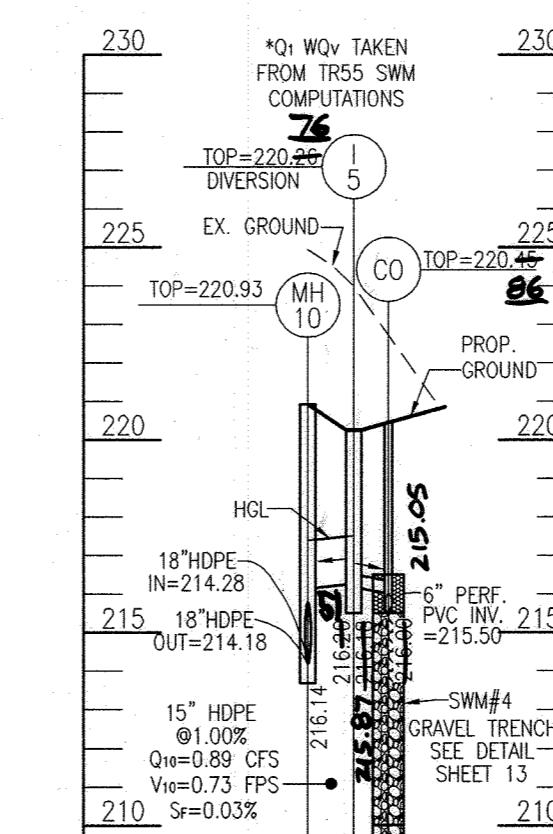
STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.



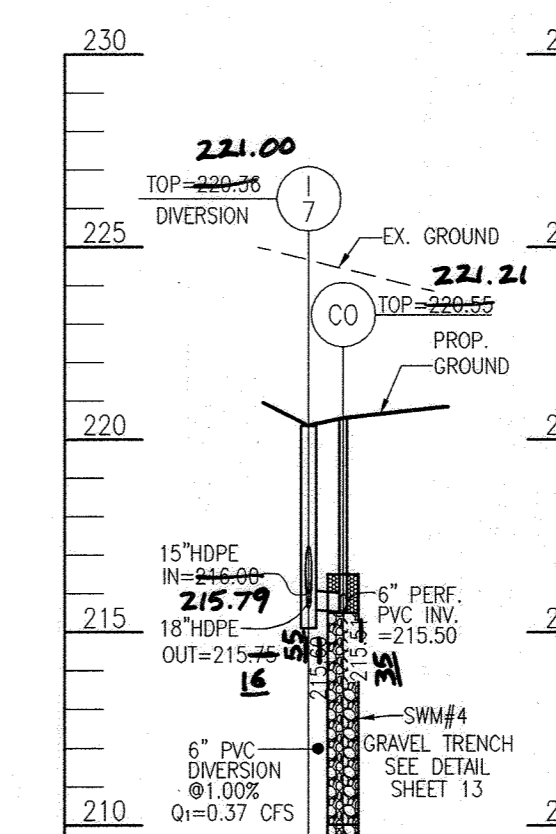
STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.



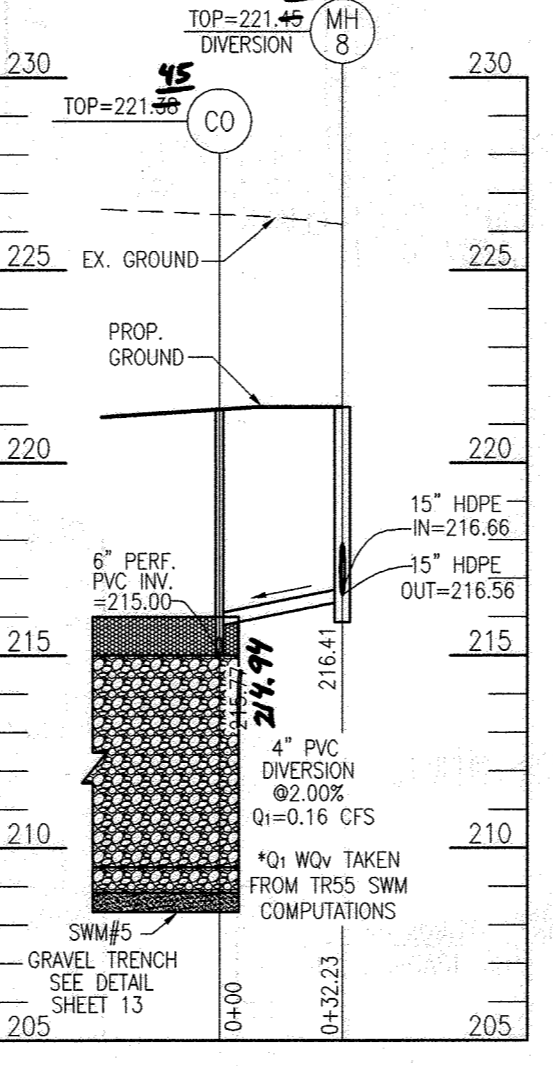
STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.



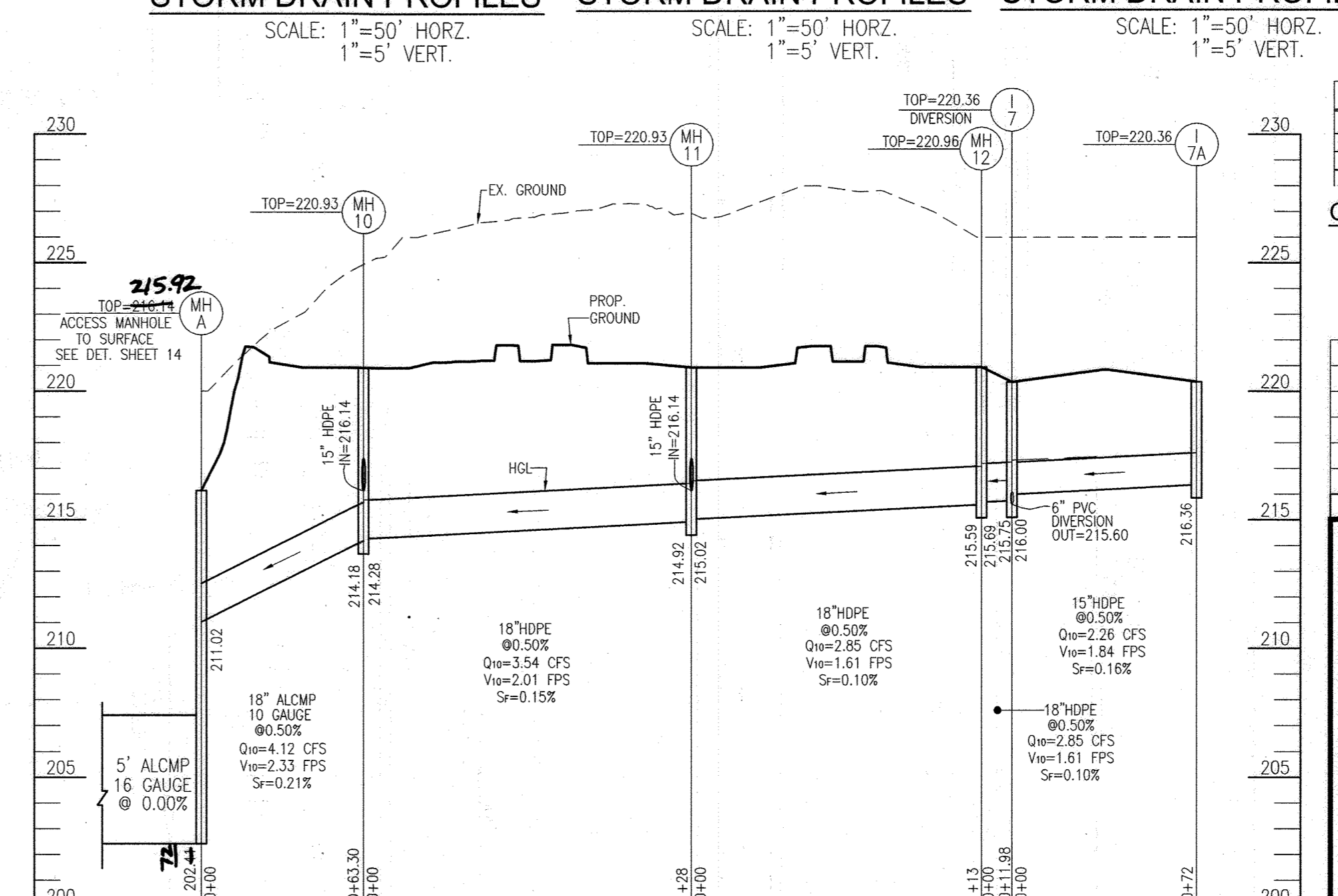
STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.



STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.



STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.



STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.

NOTES:

- CONCRETE SHALL BE EXPOSED IN SUCH A MANNER TO EXPOSE A SLOPE MARK.
- MINOR OTHER WORKS ON EXISTING STRUCTURES AS INDICATED BY PIPE IMPROVEMENTS, TO BE MADE TO MEET PIPE OVERLAP DIMENSIONS TO BE SHOWN ON THIS DRAWING OF CONCRETE PIPE.
- MANHOLE CONNECTION MUST BE DEVELOPED TO ALLOW FLOW FROM NEW MAIN TO EXISTING MANHOLE CONNECTION.
- ALL PIPE, MANHOLES, CONNECTIONS TO BE SHOWN AROUND CONNECTION WITH FULL SCHEDULE PERMANENT COVER (SLOPE) + THICKNESS TO PROTECT FULL PROTECTION FOR THE LIFE OF THE PROJECT.
- CONNECTION AND PIPE TO BE BACKFILLED PER STANDARD SPECIFICATIONS.

Howard County, Maryland
Department of Public Works
Hydro-Terrace Engineering, Inc.
Project: TPC Racing Storm Drain
Drawing: Storm Drain Profiles
Scale: As Shown
Detail: D-5.52

PRIVATE WATER MAIN LOCATION CHART

PROP. WATER MAIN 'A'

WL STA.	APPURTENANCE	NORTHING	EASTING
WL STA. 1+02.92	8"-1/8" HORIZ. BEND	542,889.15	1,376,267.55
WL STA. 2+08.44	8"-1/16" HORIZ. BEND	542,785.74	1,376,288.58
WL STA. 2+34.33	8"-1" VERT. COUPLING (UP)	542,760.33	1,376,283.64
WL STA. 2+57.52	8"-1/16" HORIZ. BEND	542,737.56	1,376,279.21
WL STA. 2+62.52	8"-1/32" VERT. BEND (DN)	542,733.39	1,376,276.45
WL STA. 2+71.08	8"-1/32" VERT. BEND (UP)	542,726.26	1,376,271.73
WL STA. 2+79.28	8"-1/32" VERT. BEND (UP)	542,719.42	1,376,267.20
WL STA. 2+87.84	8"-1/32" VERT. BEND (DN)	542,712.28	1,376,262.48
WL STA. 3+04.43	8" TEMPORARY CAP AND BUTTRESS	542,698.43	1,376,253.31

MINIMUM SEWER SERVICE ELEVATION CHART

ELL @ CO	DIST TO REAR BLDG	SHC SLOPE	DROP THRU SLAB	MISSE
28.50	354	2.8%	2.3	219.88

PRIVATE SEWER STRUCTURE SCHEDULE

STR #	TYPE	INV. IN	INV. OUT	TOP ELEV	DETAIL	LOCATION	REMARKS
MH-4	SEWER CLEANOUT	206.80	221.80	S-3.21	N 542,422.01 E 1,376,159.17	(1)	
CO-1	SEWER CLEANOUT	206.80	221.80	S-3.21	N 542,454.16 E 1,376,109.08	(1)	

(1) Coordinate and Elevation for Proposed Structure = Centerline of Structure

OWNER/DEVELOPER
M.W.L.L.I.
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 789-7223
TPCRACING@GMAIL.COM

SITE DEVELOPMENT PLAN
STORM DRAIN AND PRIVATE UTILITY
PROFILES, SCHEDULES AND DETAILS

TPC RACING
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371

TAX MAP 43, GRID 22
1ST ELECTION DISTRICT

ZONED: M-2
PARCEL 108-B
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

STATE OF MARYLAND
ROBERT HARRIS VOGEL
PE NO. 16193
PROFESSIONAL ENGINEER

DESIGN BY: GAH/OB
DRAWN BY: GAH/OB
CHECKED BY: RHY
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.C. NO.: 04-76/43575

PROFESSIONAL CERTIFICATE
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. MY EXPIRES ON
SEPTEMBER 30, 2022

5 SHEET OF 22

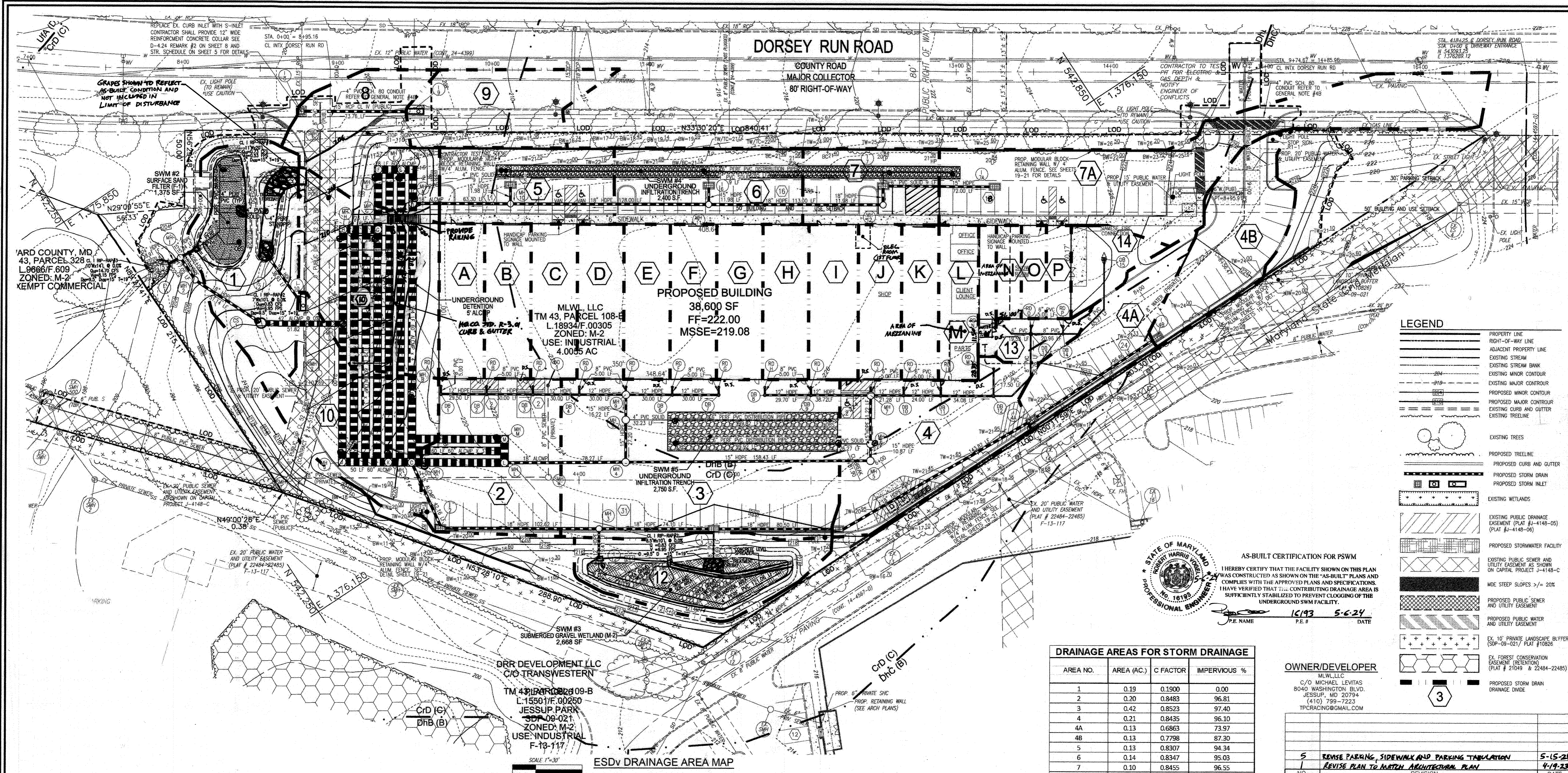
PIPE SCHEDULE

SIZE	PUBLIC/ PRIVATE	CLASS	LENGTH
4"	PRIVATE	PERF. PVC	286
4"	PRIVATE	PVC	137
6"	PRIVATE	PERF. PVC	485
6"	PRIVATE	PVC	163
8"	PRIVATE	PVC	142
12"	PRIVATE	HDPE	347
15"	PRIVATE	HDPE	504
15"	PUBLIC	RCP CL. IV	74
18"	PRIVATE	HDPE	711
24"	PRIVATE	HDPE	9
18"	PRIVATE	ALCMP	184
42"	PRIVATE	ALCMP	52
60"	PRIVATE	ALCMP	1444

EXCLUDES TEMPORARY PIPE FOR SEDIMENT CONTROL

PRIVATE WATER AND SEWER QUANTITIES

ITEMS	QUANTITIES		TYPE	MANUFACTURER/SUPPLIER
	ESTIMATED	AS-BUILT		
PRIVATE WATER				
8" 1/8" HORIZ. BEND	1	EA		
8" WATER - CS90 (DR-18)	211	LF		
8" 1/16" HORIZ. BEND	2	EA		
8"-1" VERTICAL COUPLING	1	EA		
8"-1/32" VERTICAL BEND	4	EA		
8" TEMP. CAP AND BUTTRESS	1	EA		
PRIVATE SEWER				
8" PVC SEWER	216	LF		
SEWER CLEANOUTS	1	EA		
SEWER MANHOLE (TYPE B DROP)	1	EA		



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING TREELINE
- EXISTING TREES
- PROPOSED TREELINE
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EXISTING WETLANDS
- EXISTING PUBLIC DRAINAGE EASEMENT (PLAT #1-4148-05) (PLAT #1-4148-06)
- PROPOSED STORMWATER FACILITY
- EXISTING PUBLIC SEWER AND UTILITY EASEMENT AS SHOWN ON CAPITAL PROJECT 3-4148-C
- MOE STEEP SLOPES >= 20%
- PROPOSED PUBLIC SEWER AND UTILITY EASEMENT
- PROPOSED WATER AND UTILITY EASEMENT
- EX. 10' PRIVATE LANDSCAPE BUFFER (SDP-09-021) PLAT #10826
- EX. FOREST CONSERVATION EASEMENT (RETENTION) (PLAT # 21049 & 22484-22485)
- PROPOSED STORM DRAIN DRAINAGE DIVIDE

AS-BUILT CERTIFICATION FOR PSWM

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

STATE OF MARYLAND
 ROBERT H. VOGEL
 PROFESSIONAL ENGINEER
 NO. 18193

P.E. NAME: **15/93 5-6-24**
 P.E. # DATE

DRAINAGE AREAS FOR STORM DRAINAGE

AREA NO.	AREA (AC.)	C FACTOR	IMPERVIOUS %
1	0.19	0.1900	0.00
2	0.20	0.8483	96.81
3	0.42	0.8523	97.40
4	0.21	0.8435	96.10
4A	0.13	0.6863	73.97
4B	0.13	0.7798	87.30
5	0.13	0.8307	94.34
6	0.14	0.8347	95.03
7	0.10	0.8455	96.55
7A	0.33	0.7992	90.03
8	0.15	0.5704	55.95
9	0.12	0.6123	62.73
10	0.18	0.5403	51.52
11	0.21	0.4107	32.46
12	0.15	0.1900	0.00
13 (DB-14)	0.03	0.8700	100.00
14 (DB-16)	0.04	0.2335	10.35
RD-A	0.07	0.8700	100.00
RD-B	0.07	0.8700	100.00
RD-C	0.07	0.8700	100.00
RD-D	0.07	0.8700	100.00
RD-E	0.07	0.8700	100.00
RD-F	0.07	0.8700	100.00
RD-G	0.07	0.8700	100.00
RD-H	0.07	0.8700	100.00
RD-I	0.07	0.8700	100.00
RD-J	0.06	0.8700	100.00
RD-K	0.06	0.8700	100.00
RD-L	0.06	0.8700	100.00
RD-M	0.02	0.8700	100.00
RD-N	0.02	0.8700	100.00
RD-O	0.02	0.8700	100.00
RD-P	0.02	0.8700	100.00
RD-Q	0.002	0.8700	100.00
RD-R	0.002	0.8700	100.00

OWNER/DEVELOPER

MLW, LLC
 C/O MICHAEL LEVITAS
 8040 WASHINGTON BLVD.
 JESSUP, MD 20794
 (410) 789-7223
 TPCRACING@GMAIL.COM

NO.	REVISION	DATE
5	REVISE PARKING, SIDEWALK AND PARKING TABULATION	5-15-24
1	REVISE PLAN TO MATCH ARCHITECTURAL PLAN	4-19-23

SITE DEVELOPMENT PLAN
STORM DRAIN DRAINAGE AREA MAP
 TPC RACING
 7869 DORSEY RUN ROAD
 JESSUP, MD 20794
 L. 16140 / F. 00371

TAX MAP 43 GRID 22
 1ST ELECTION DISTRICT

ZONED: M-2
 PARCEL 108-B
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP

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PROFESSIONAL CERTIFICATE

DESIGN BY: GAH/OB
 DRAWN BY: GAH/OB
 CHECKED BY: RHY
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 W.O. NO.: 04-76/43575

STATE OF MARYLAND
 ROBERT H. VOGEL
 PROFESSIONAL ENGINEER
 NO. 18193

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. 18193, EXPIRATION DATE 09-27-2022

6 SHEET OF 22

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief Development Engineering Division
 3/30/2022

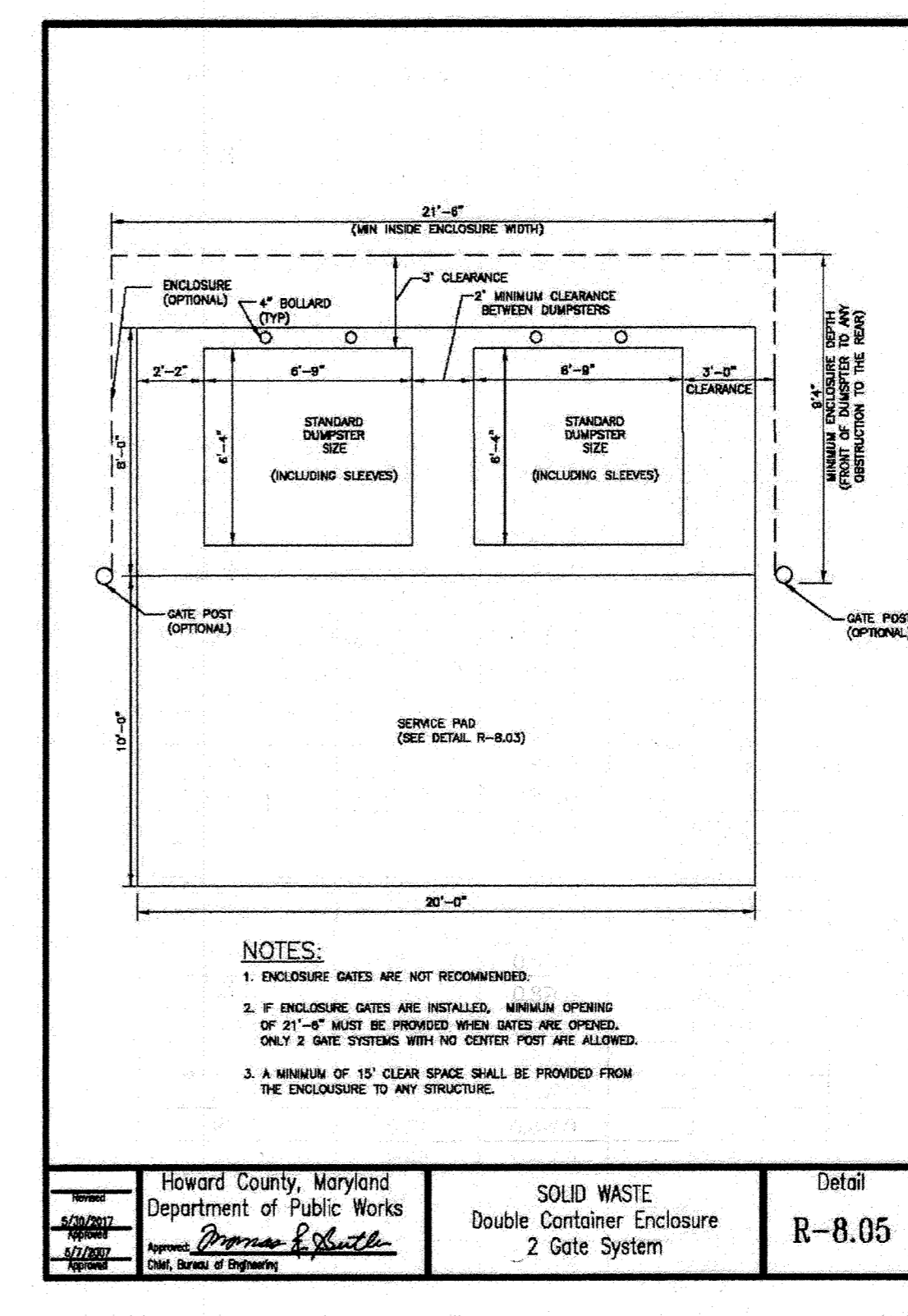
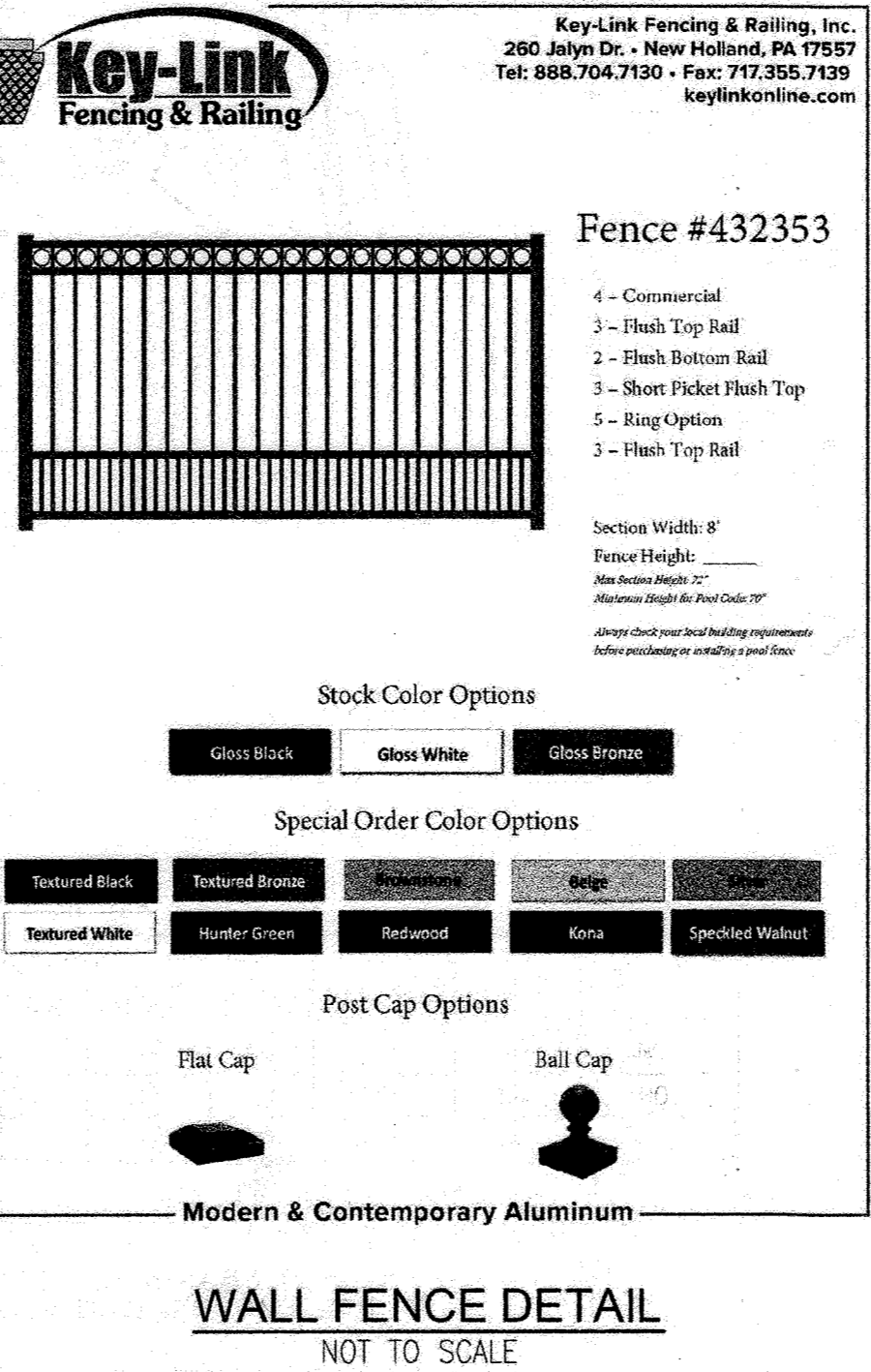
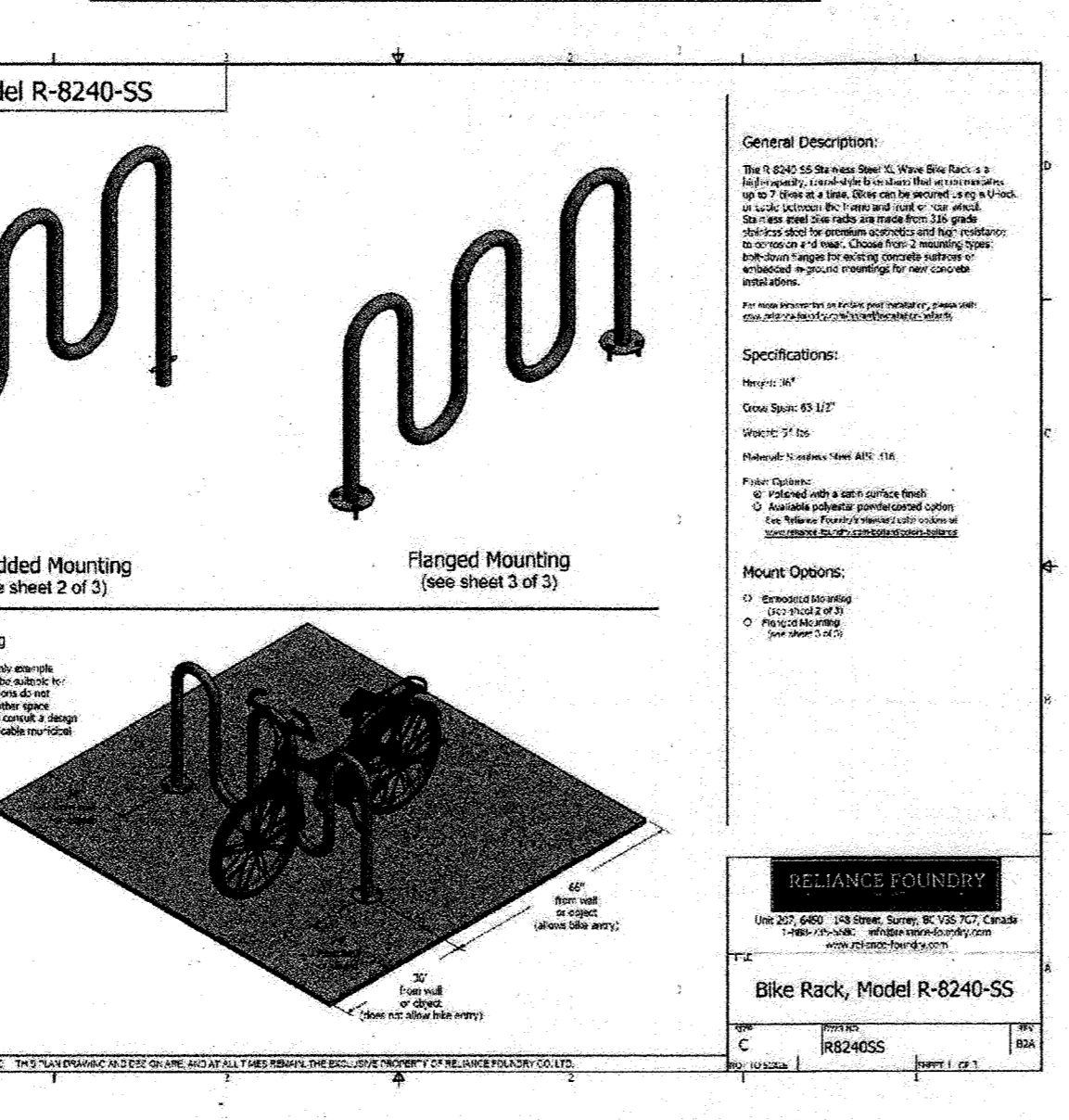
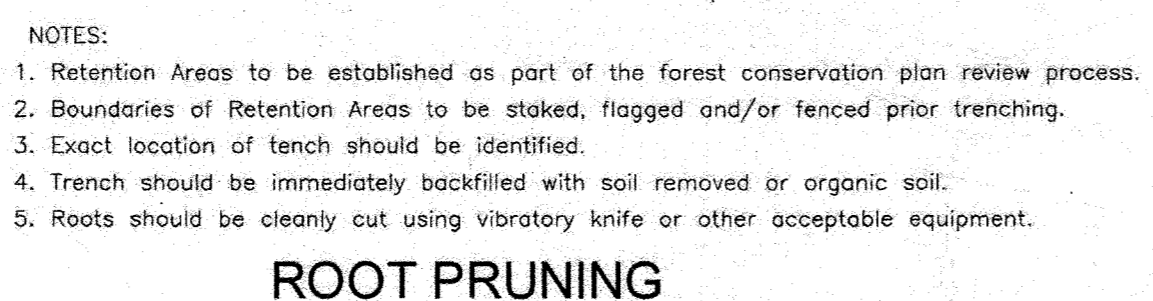
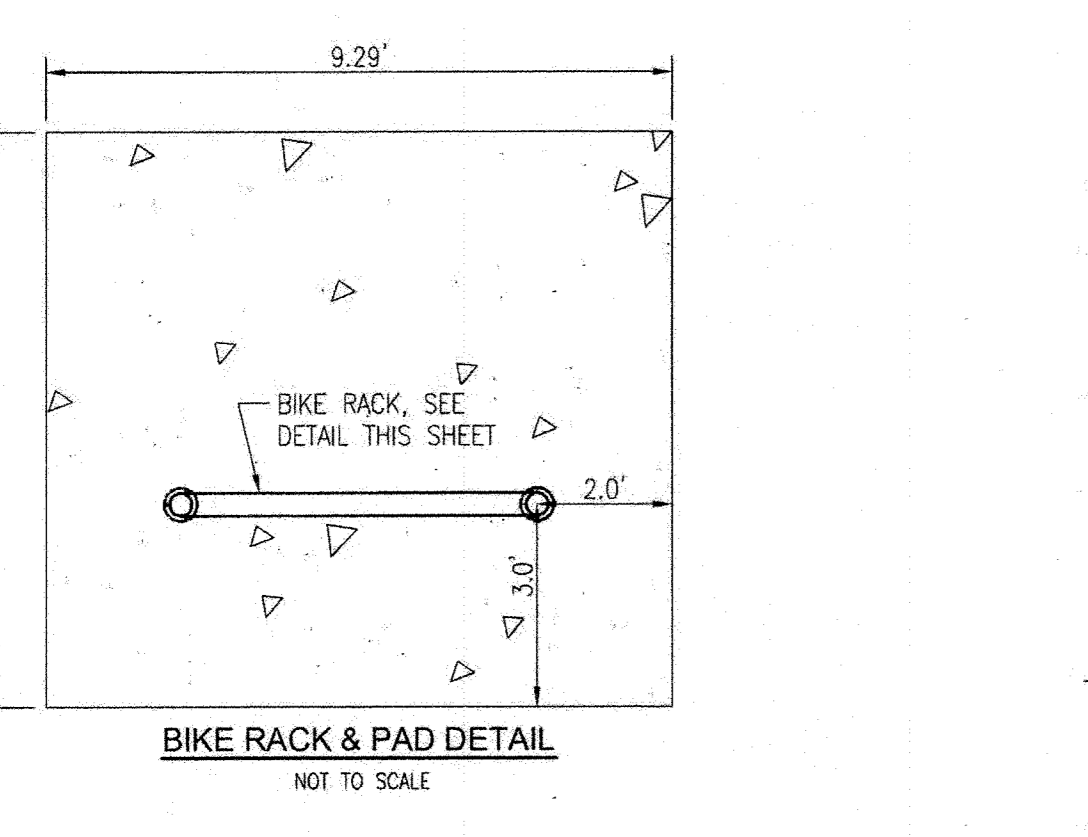
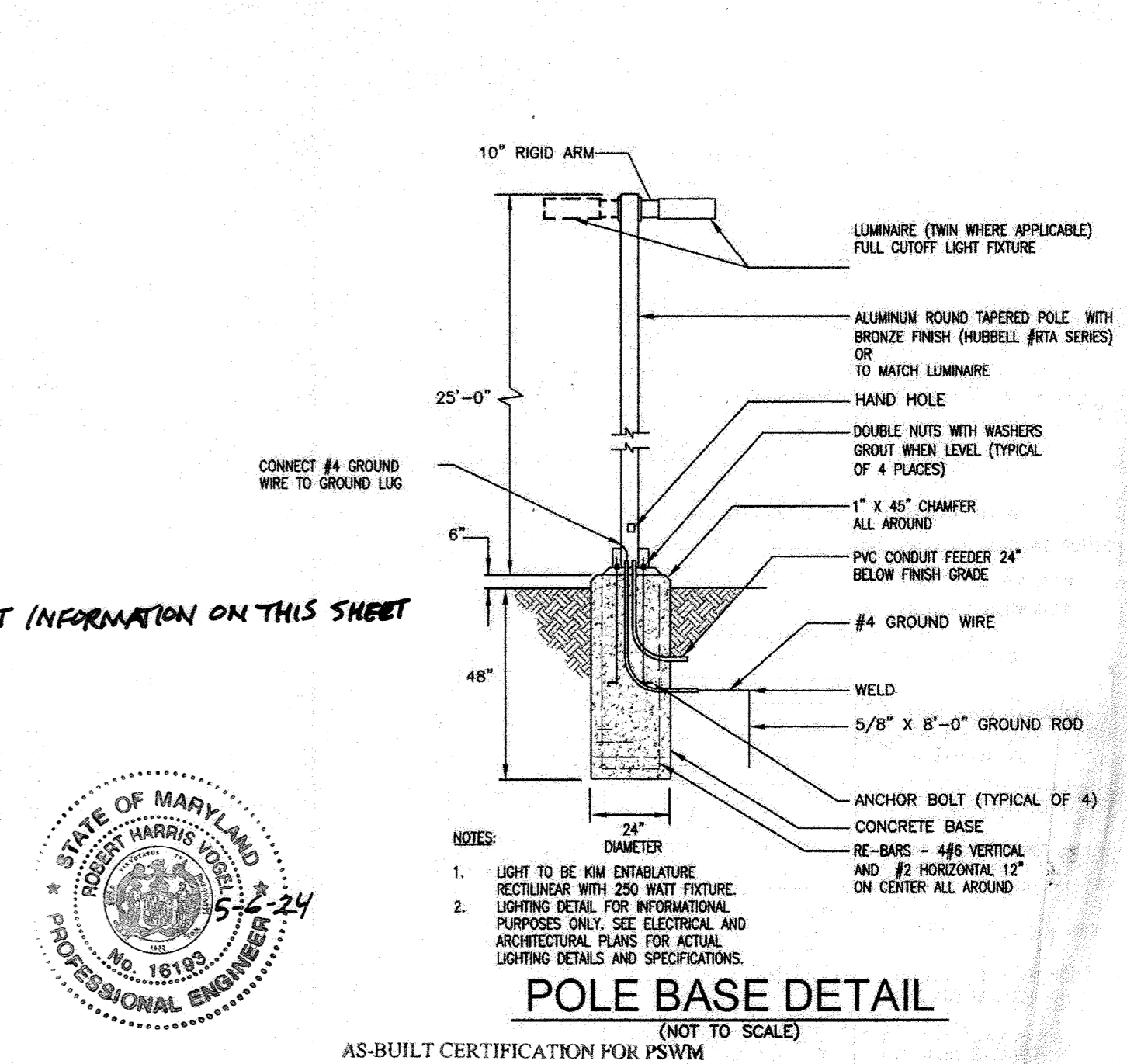
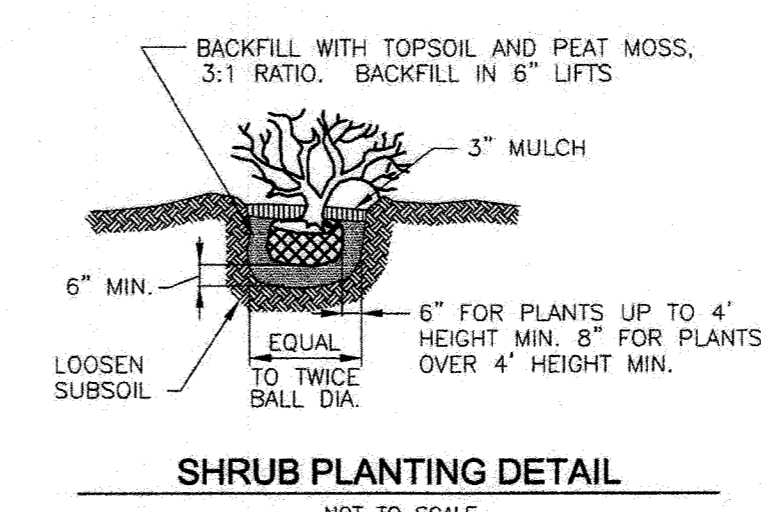
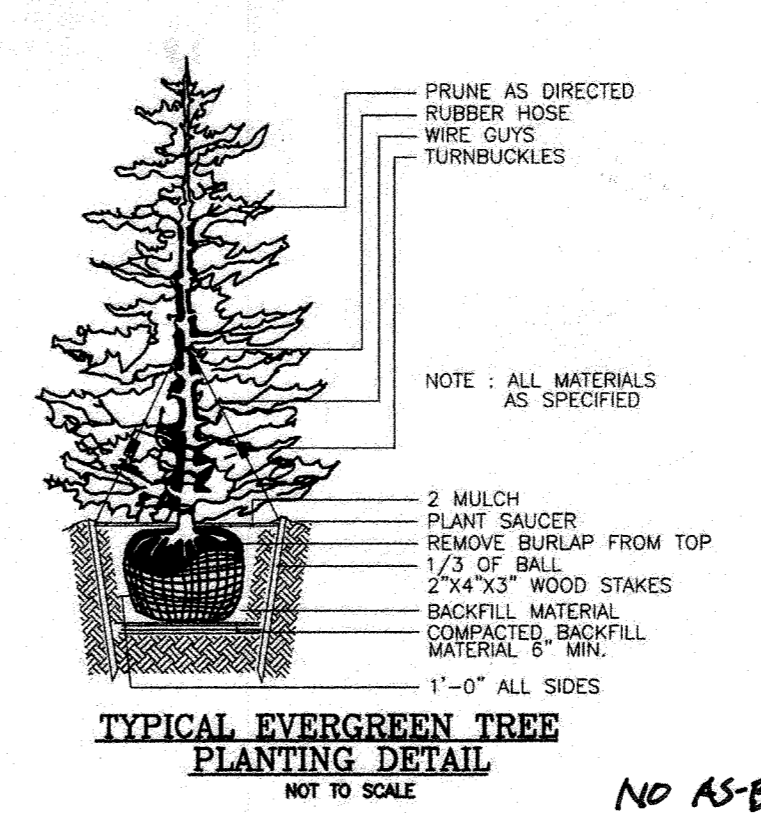
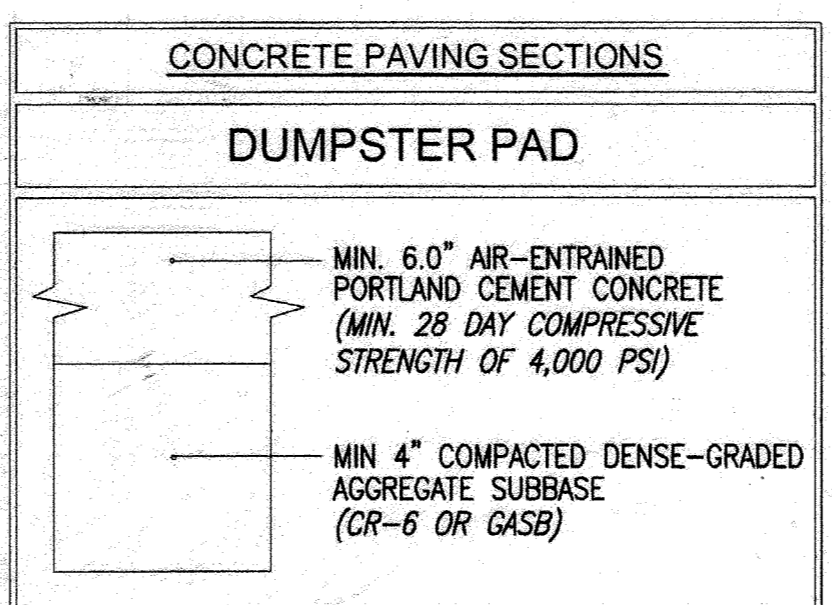
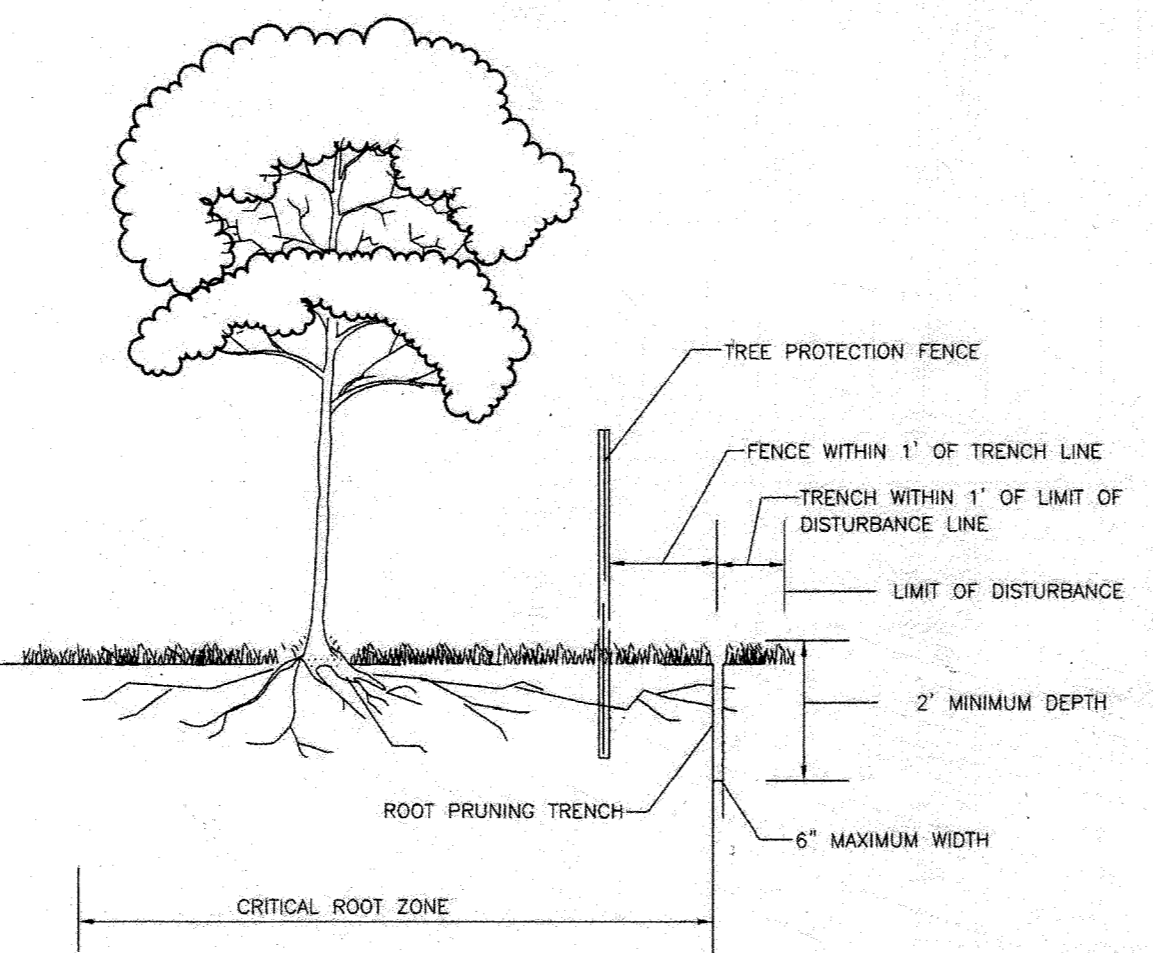
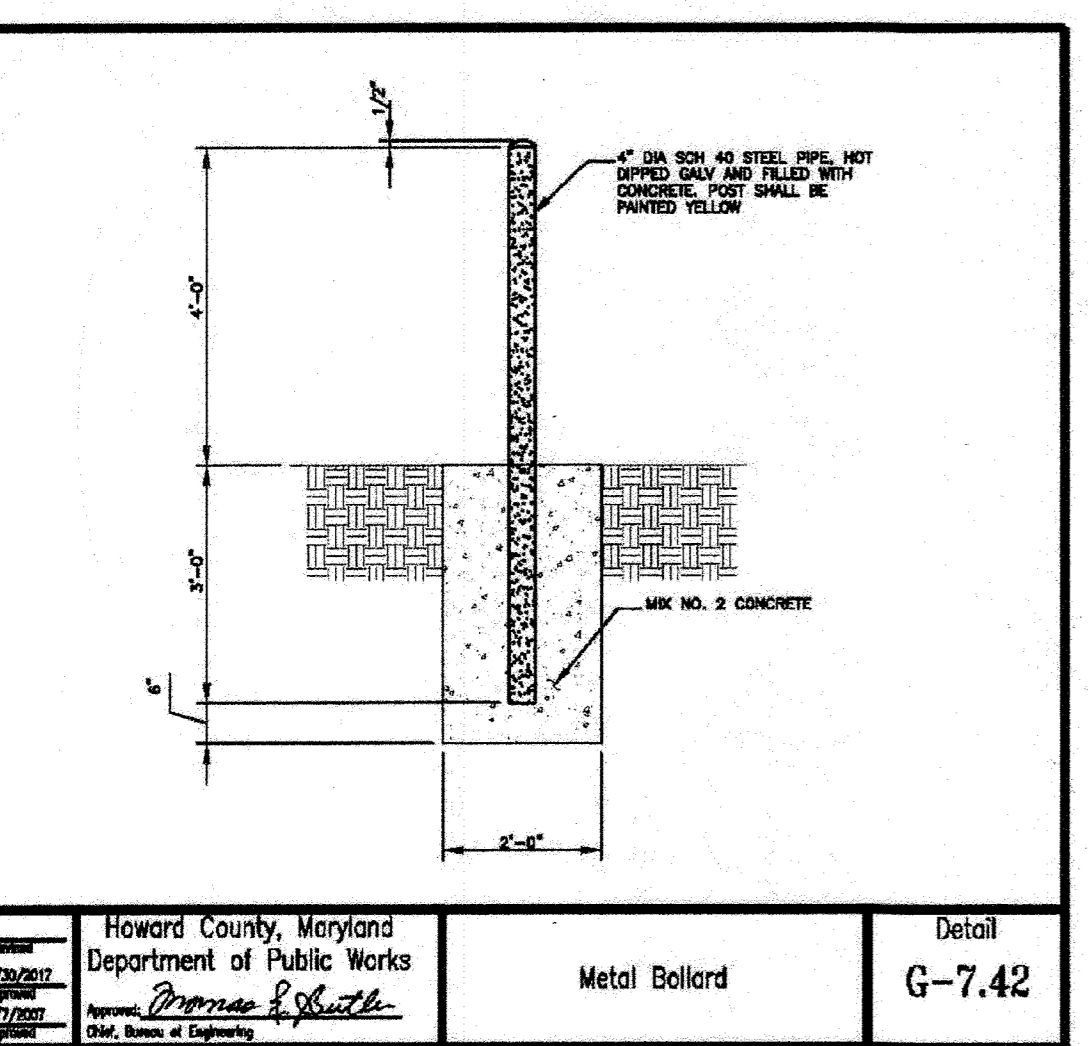
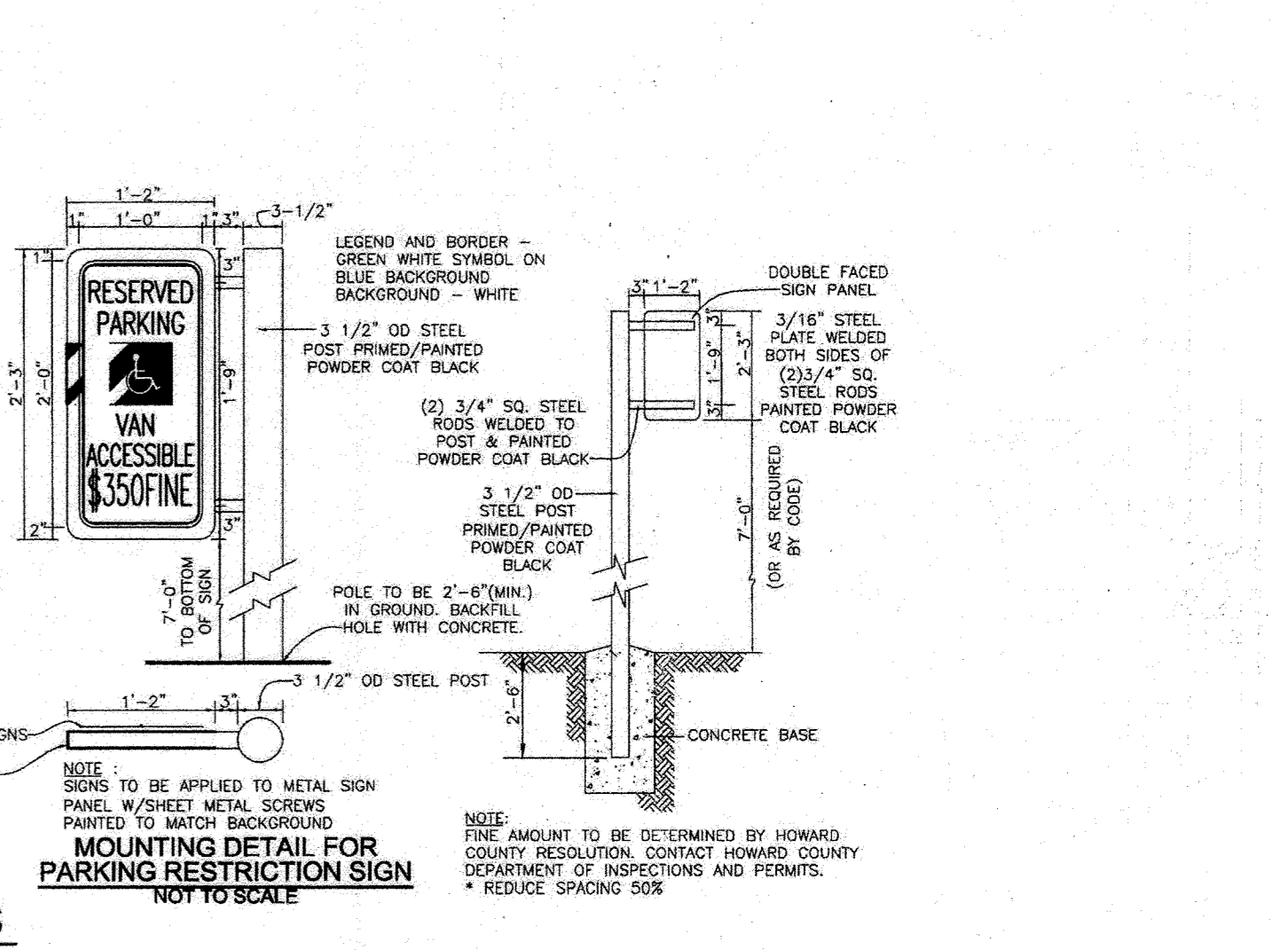
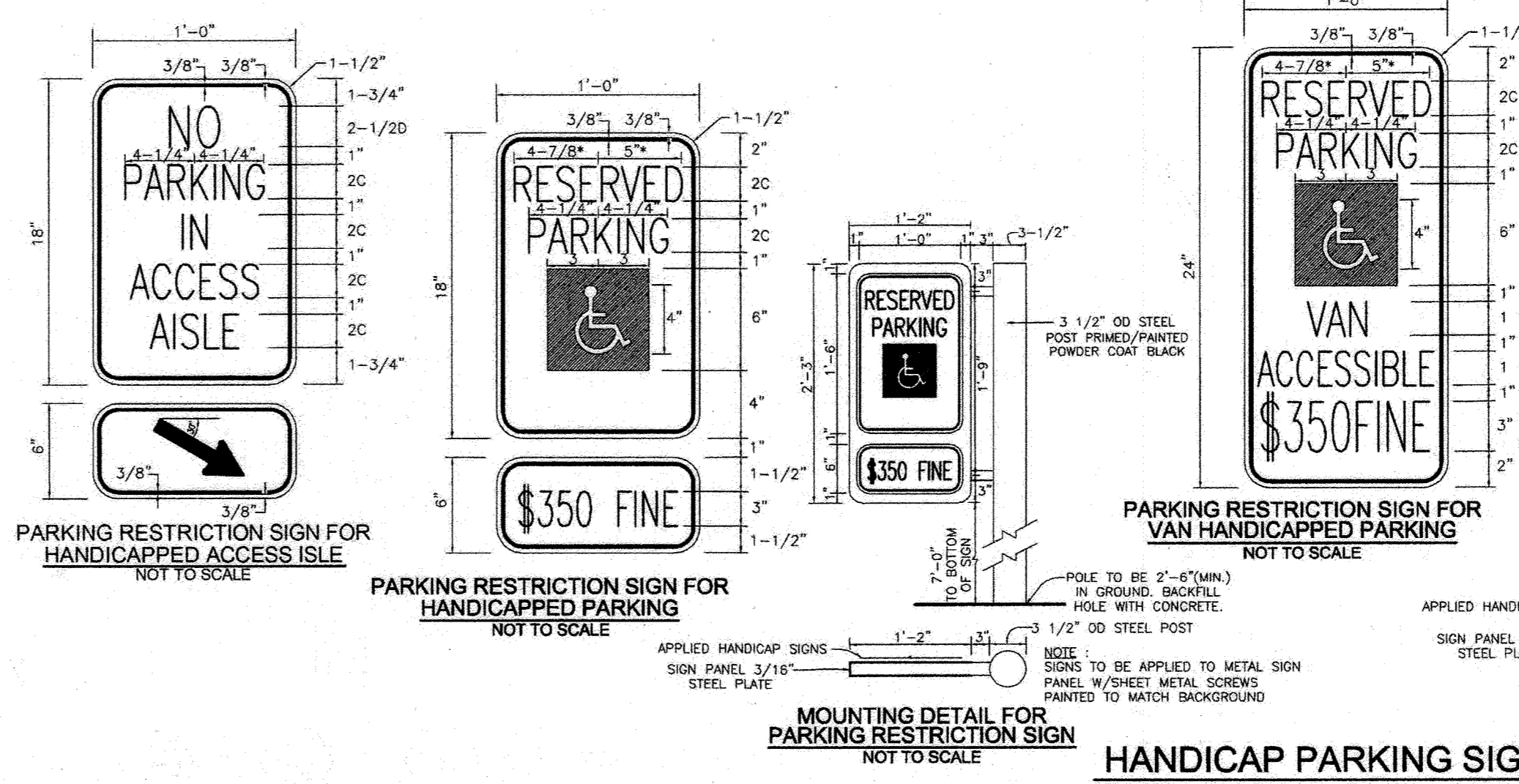
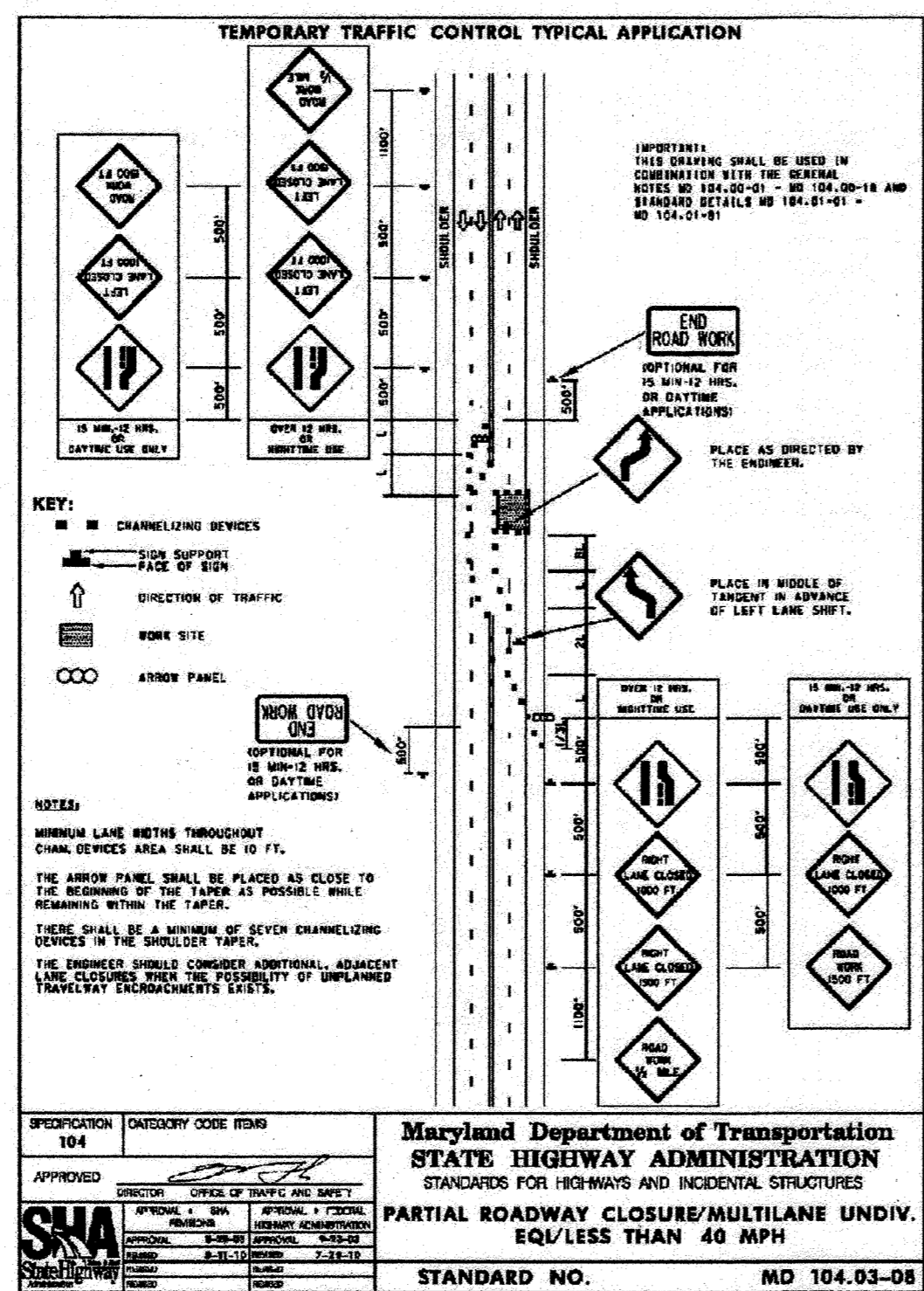
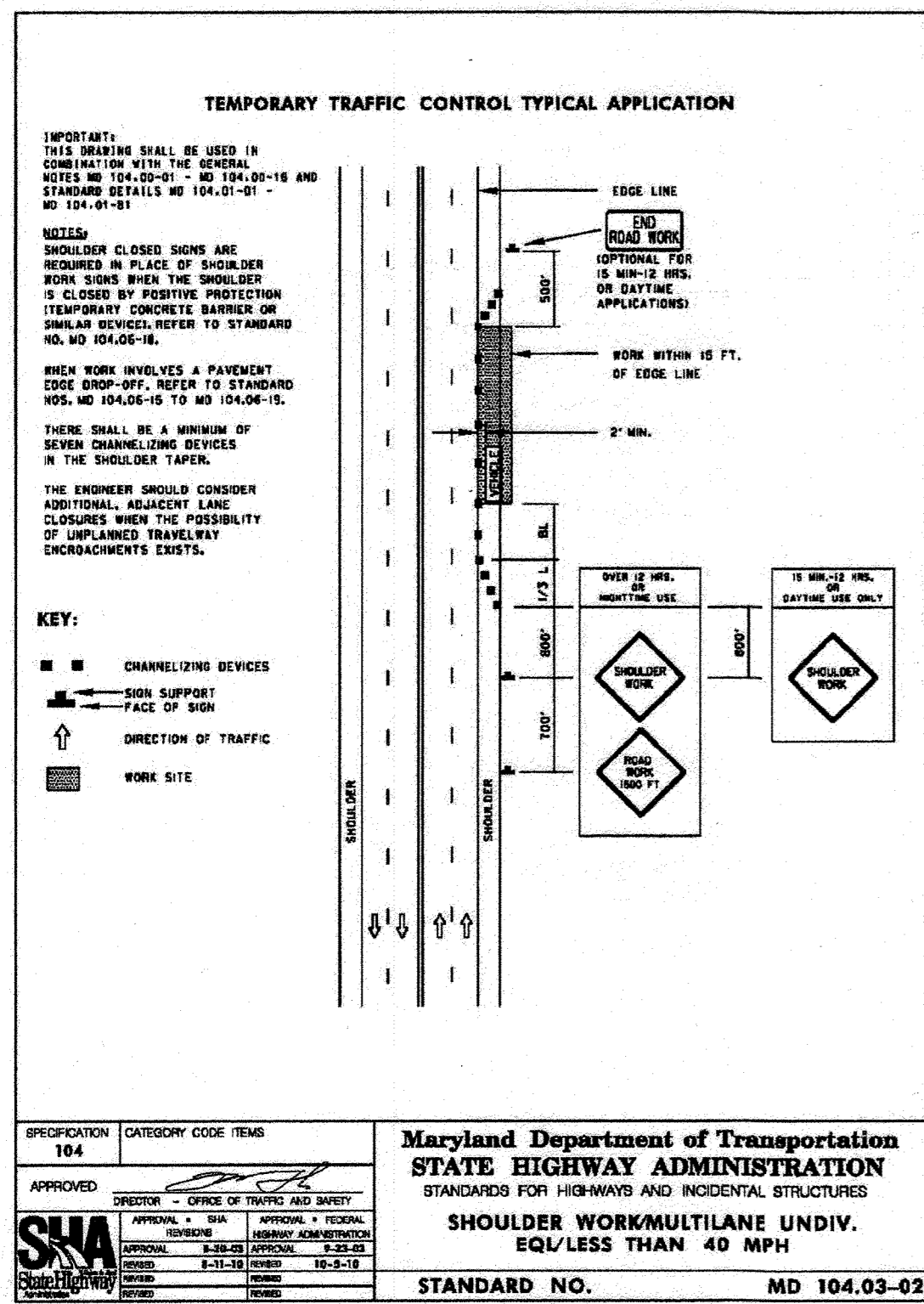
Chief, Division of Land Development
 3/30/2022

MAPPED SOILS TYPES - SAVAGE SE MAP #25

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	HYDRIC	HYDRIC INCLUSIONS	PRIME FARMLAND	<15% SLOPE W/ EROSION POTENTIAL
DhB	DOWNER-HAMMONTON SANDY LOAM, 2 TO 5 PERCENT	B	.17	NO	NO	NO	NO
DhC	DOWNER-HAMMONTON SANDY LOAM, 5 TO 10 PERCENT	B	.17	NO	NO	NO	NO
CdD	CROOM AND EVESBORO SOILS, 10 TO 15 PERCENT SLOPES	C	.37	NO	NO	NO	YES

TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY

NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT



SITE DEVELOPMENT PLAN

SITE DETAILS

TPC RACING

7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371

TAX MAP 43 GRID 22
1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

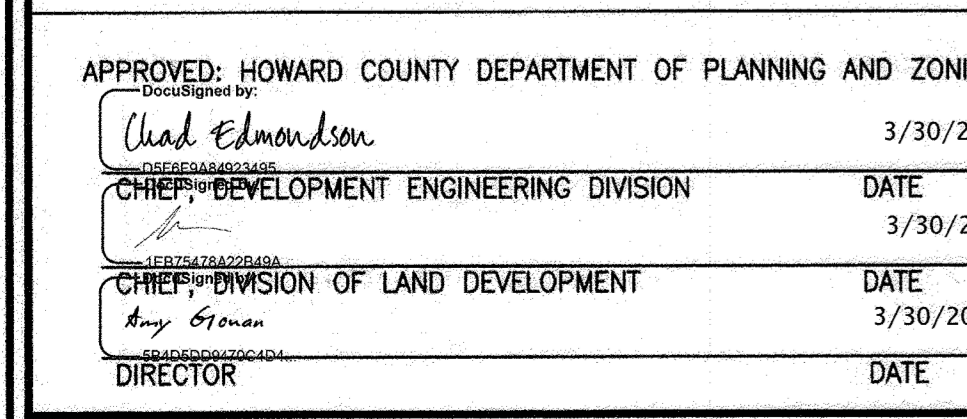
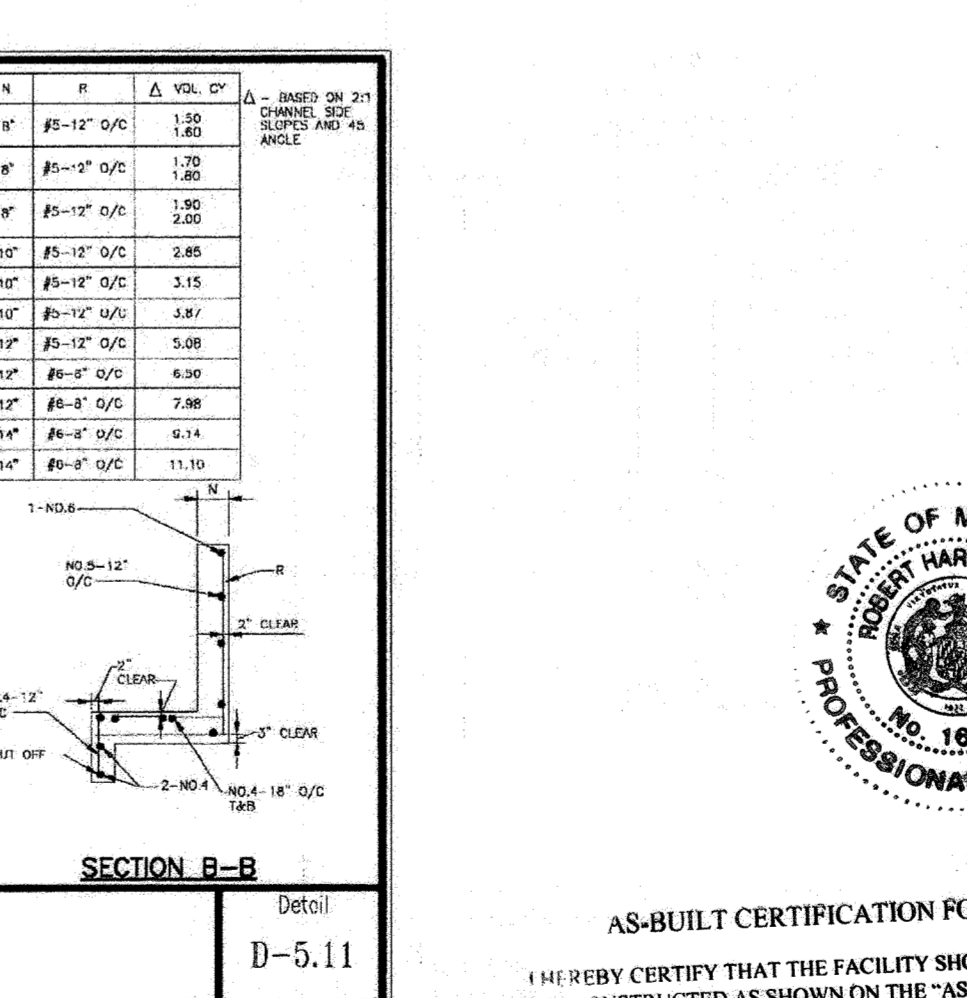
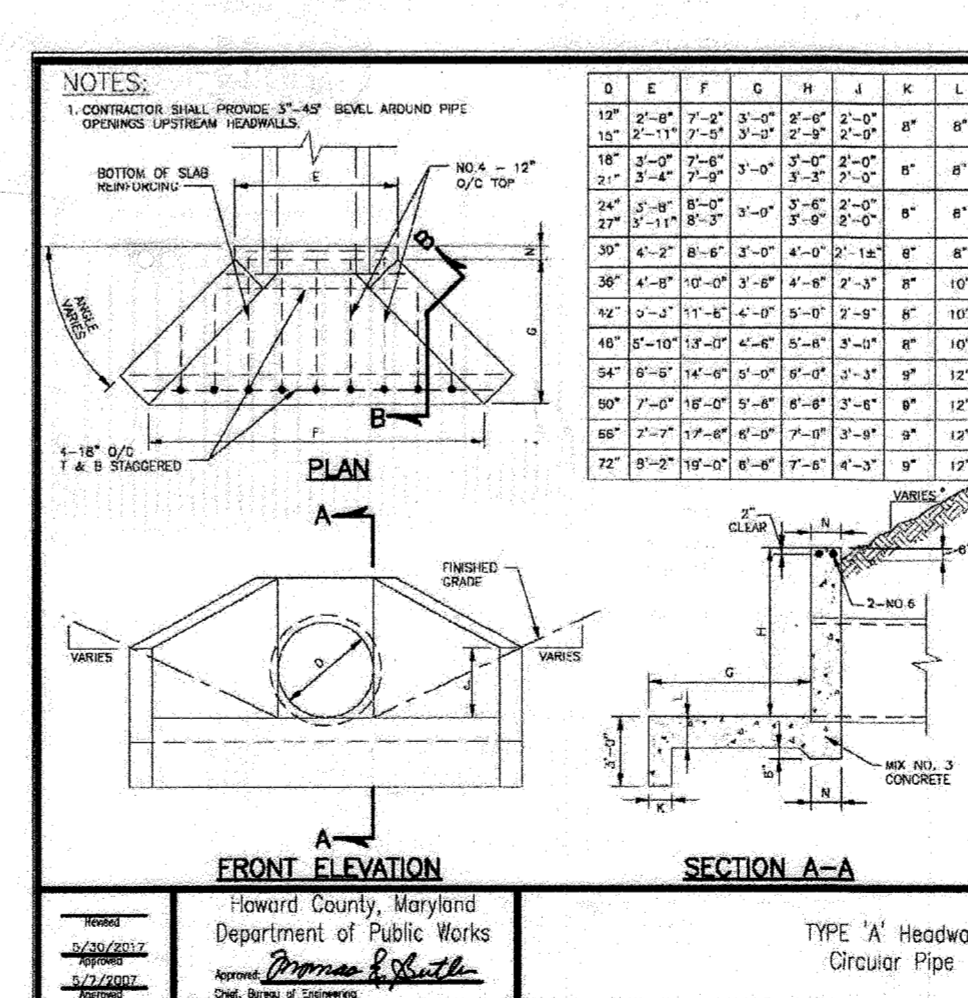
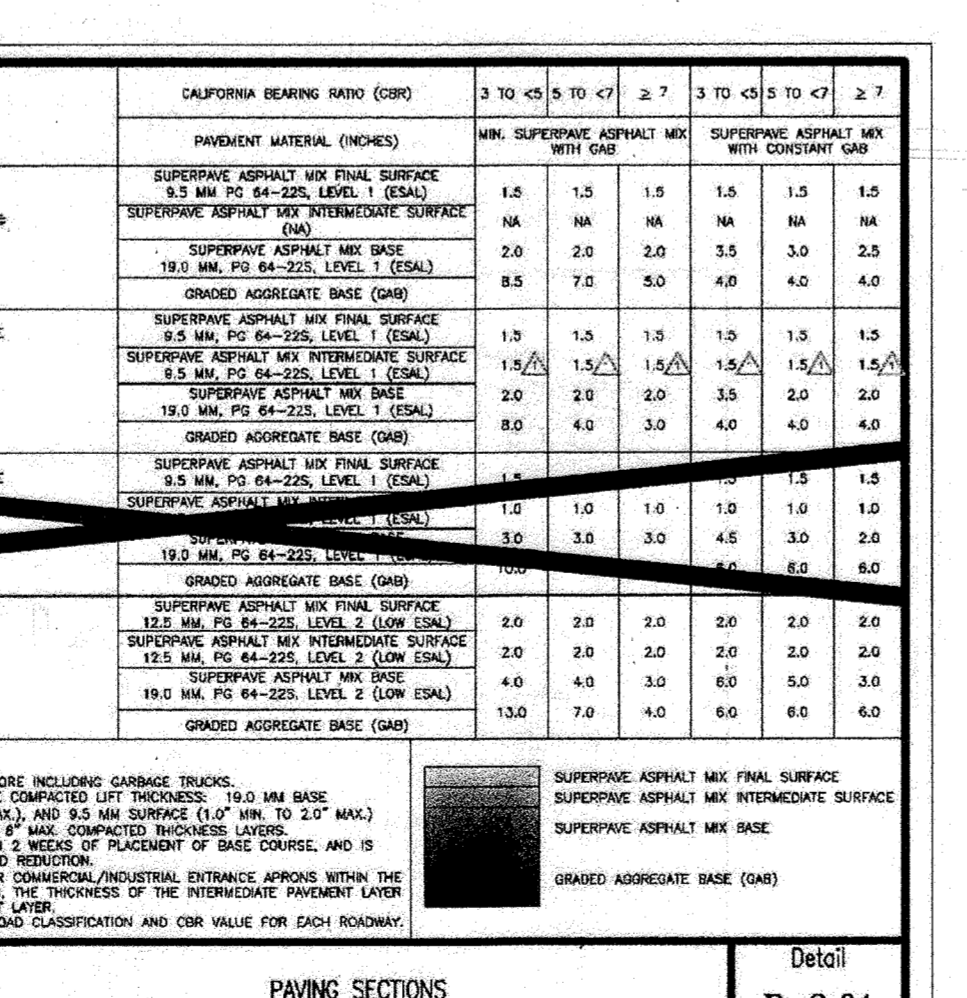
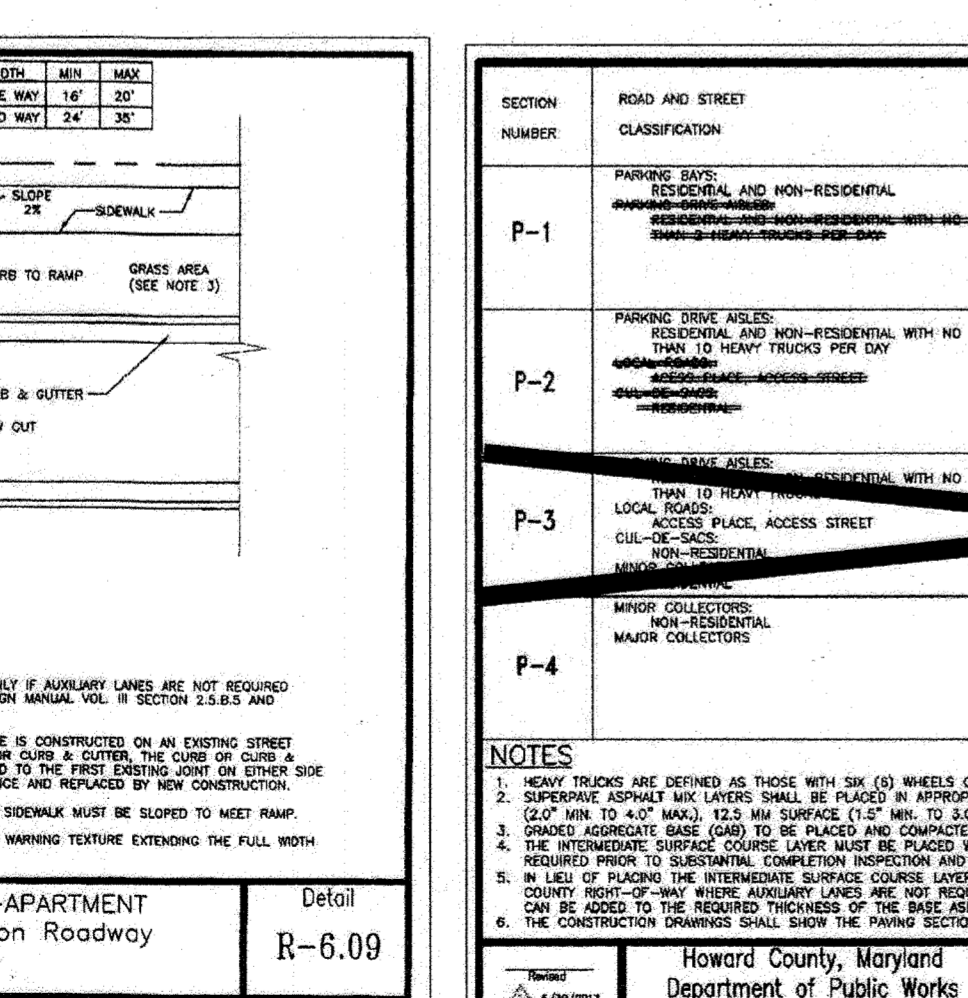
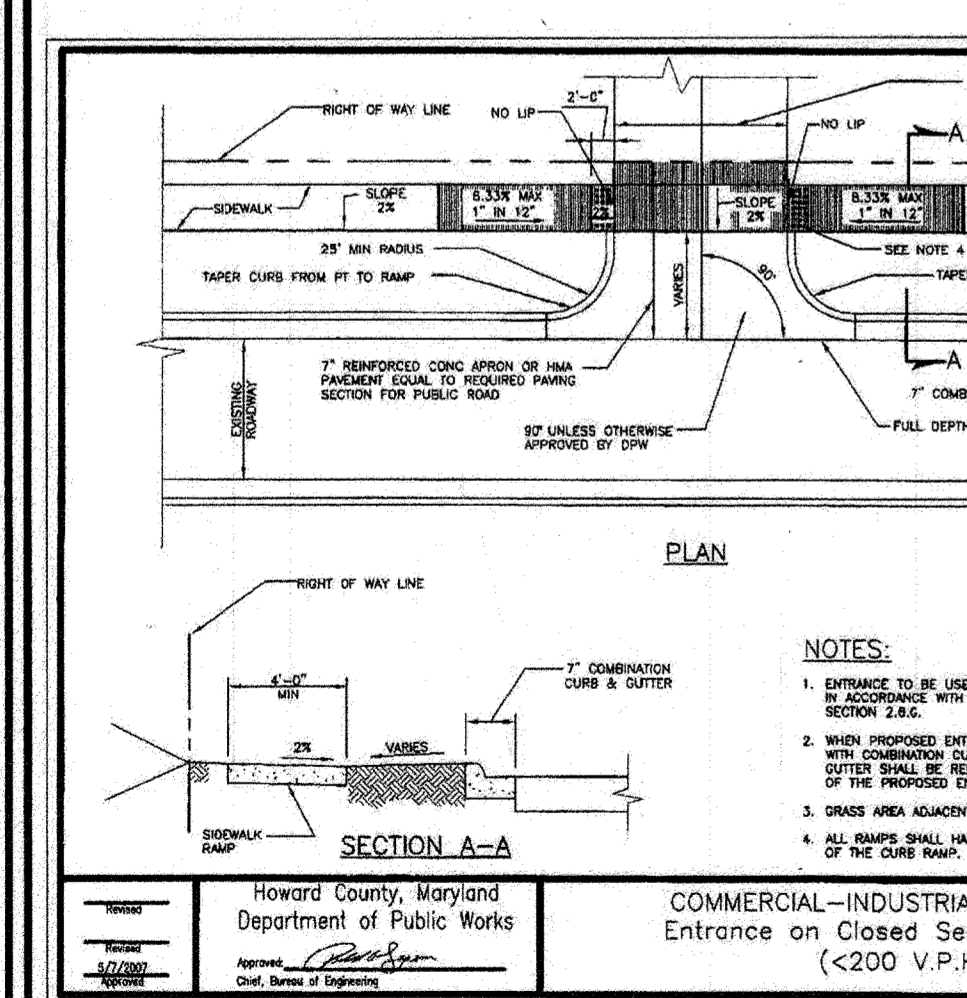
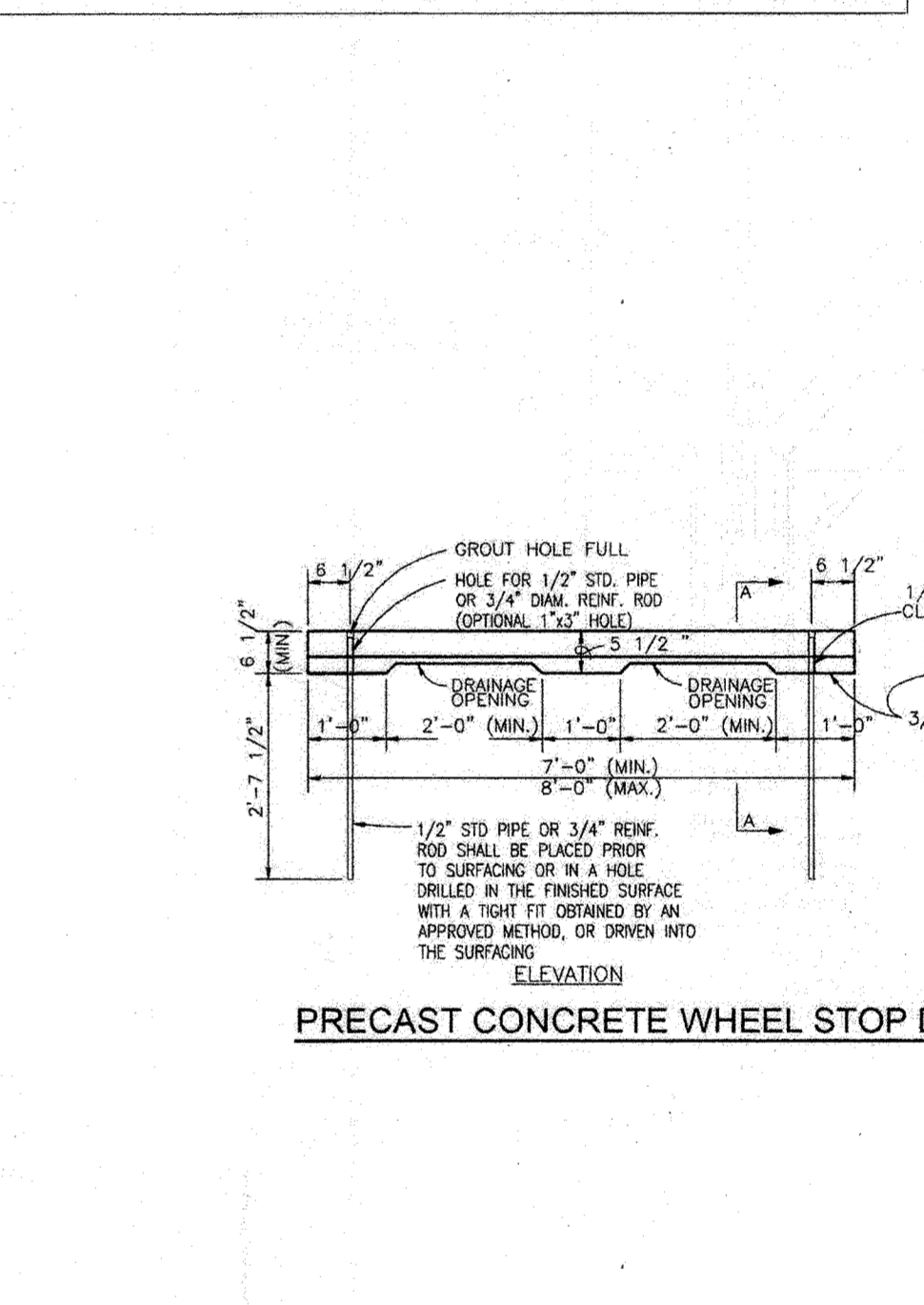
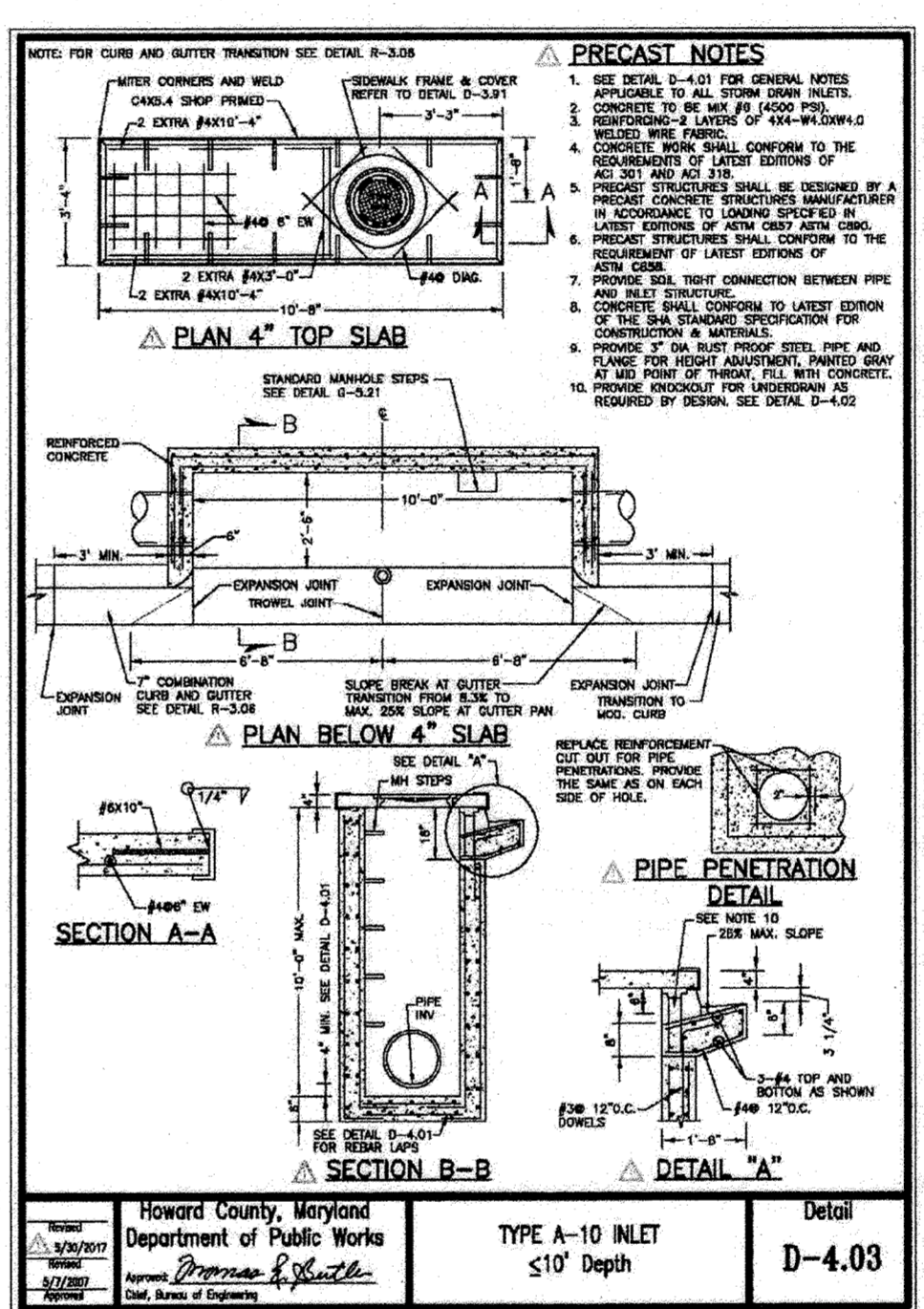
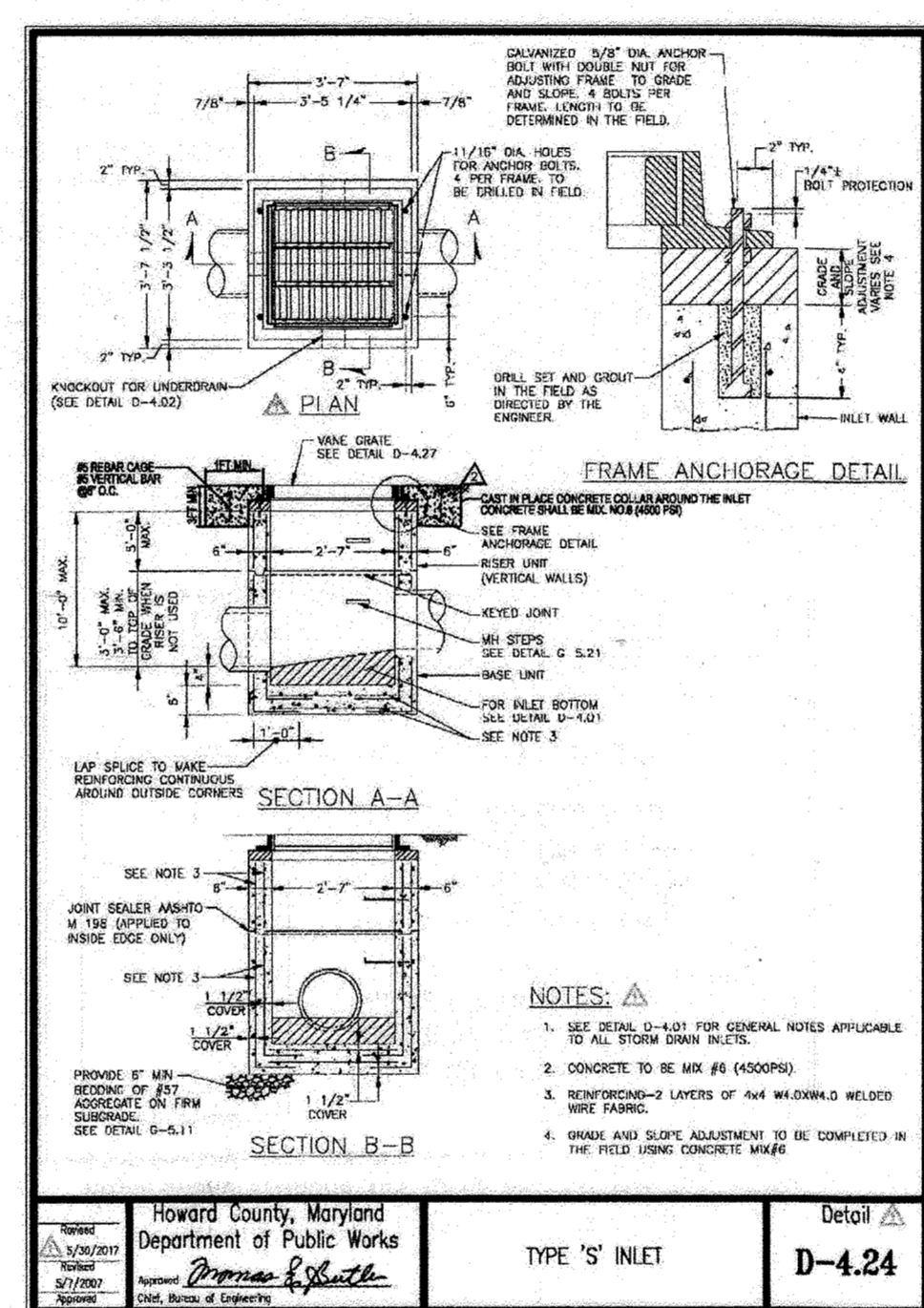
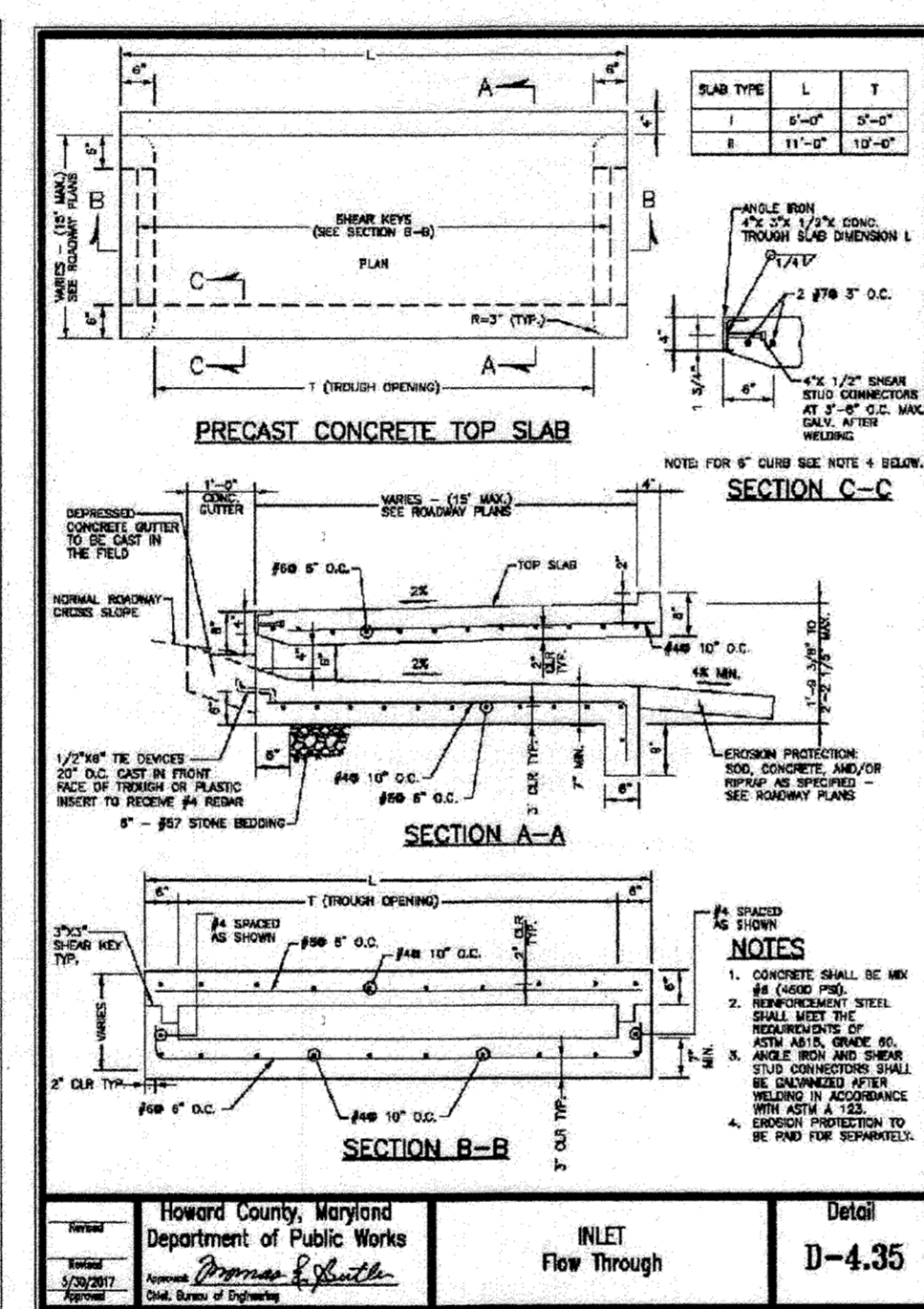
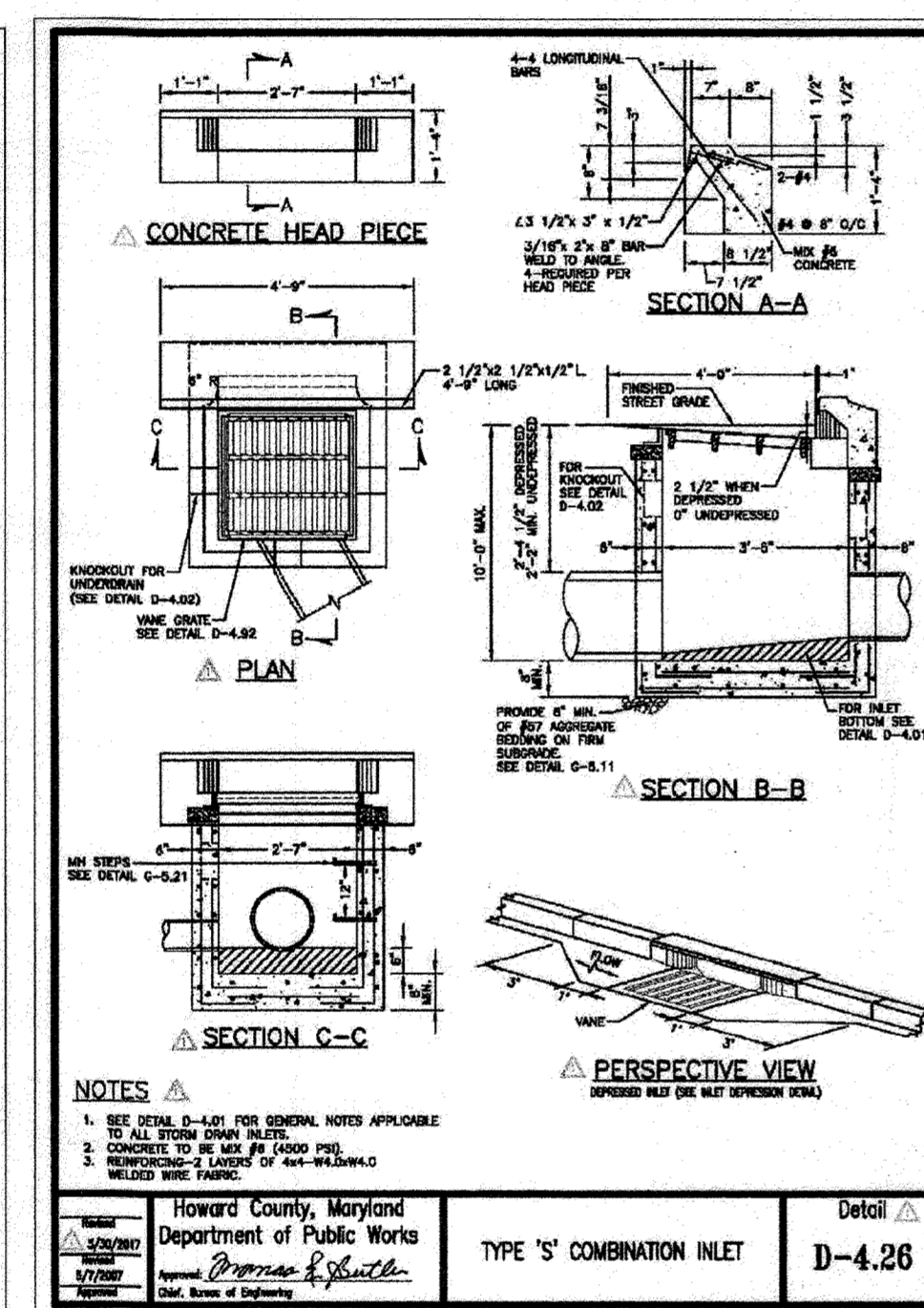
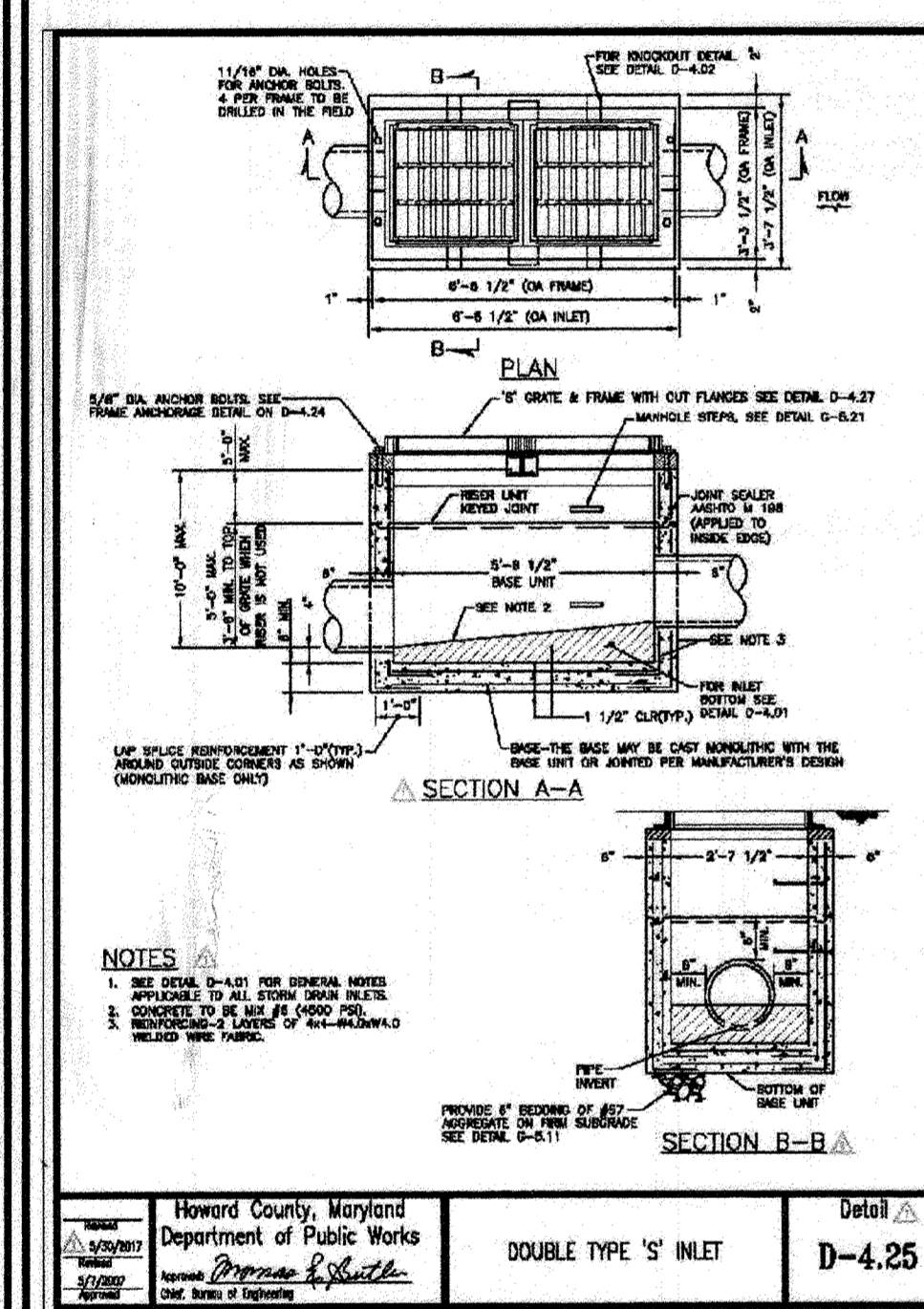
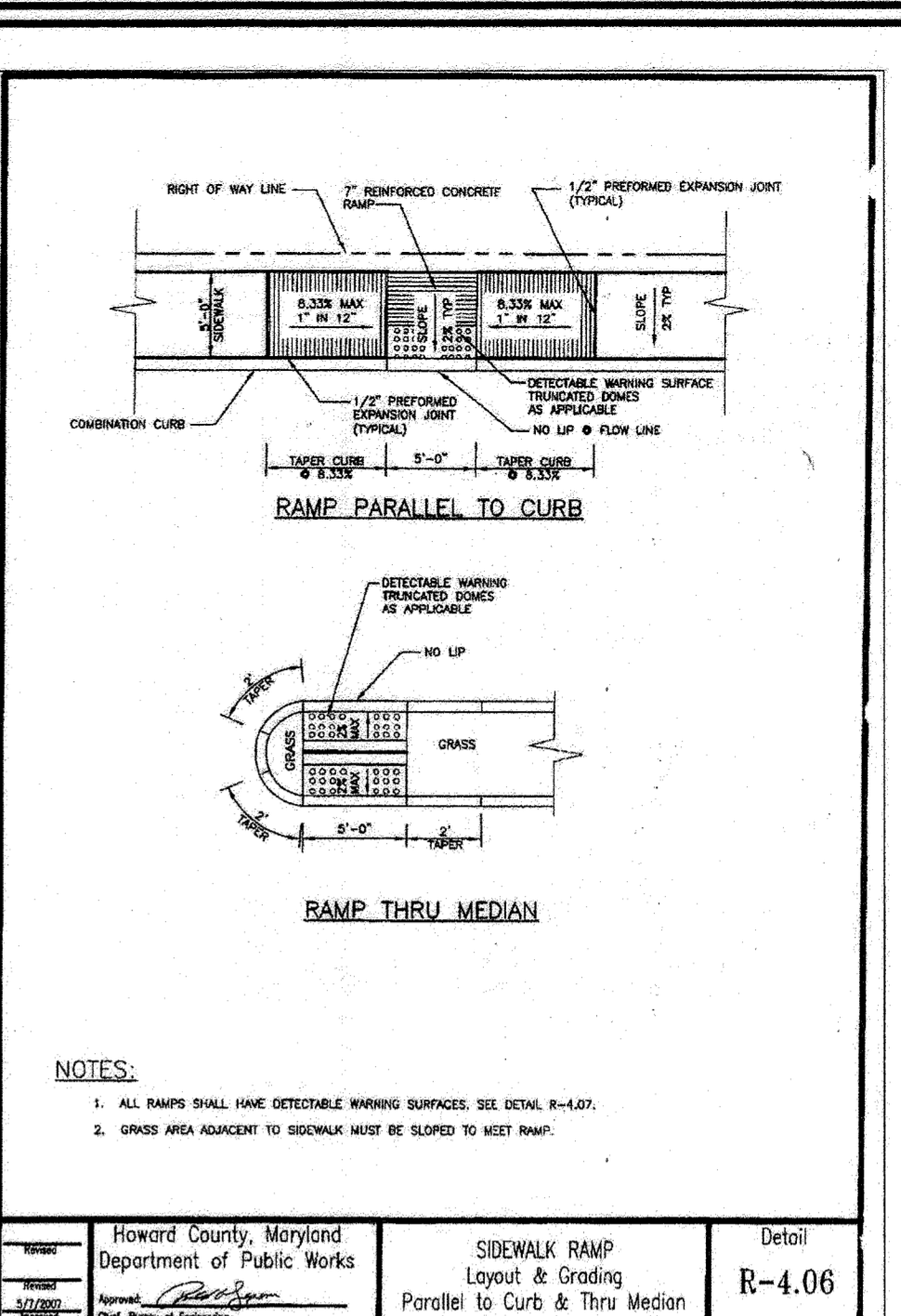
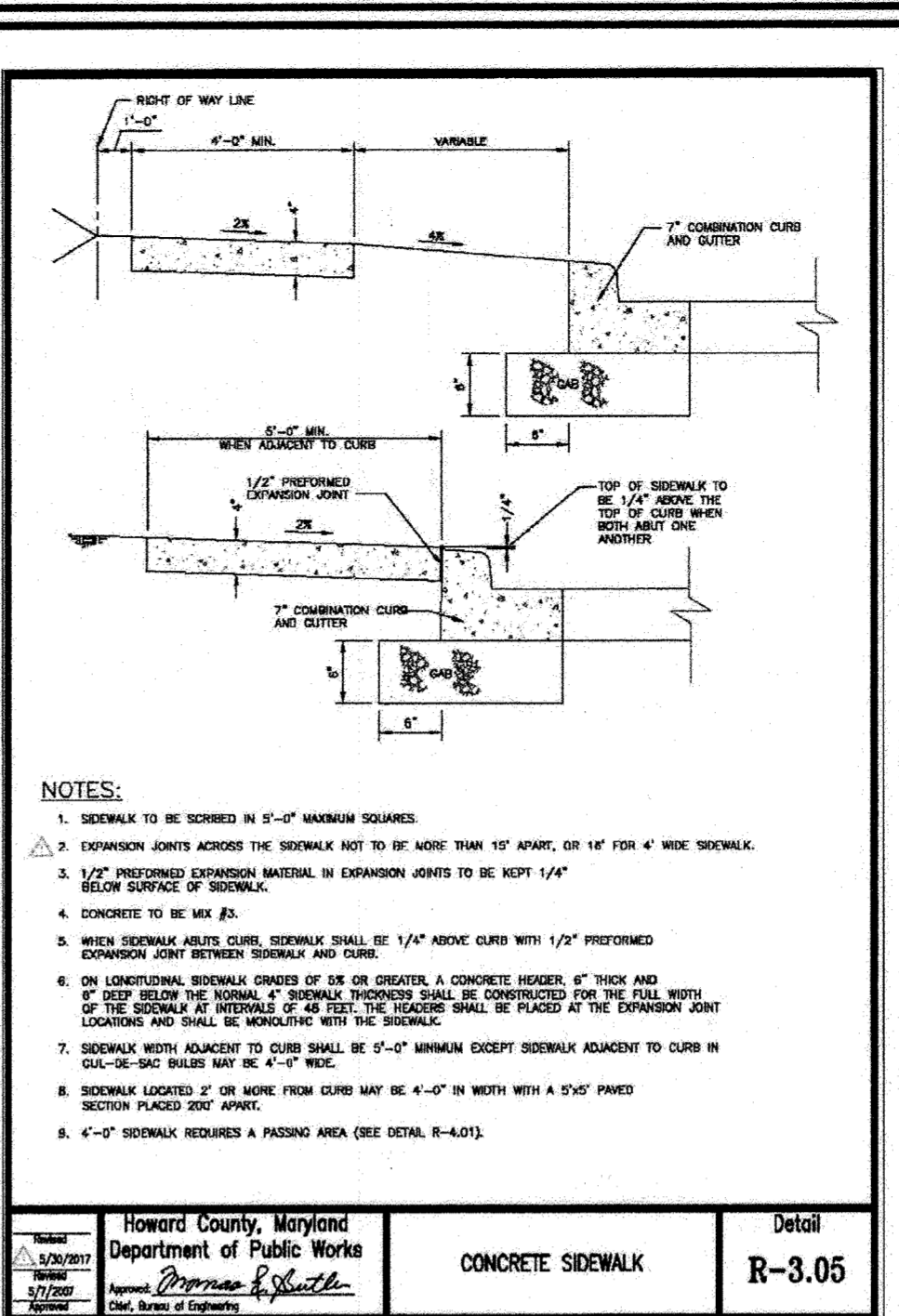
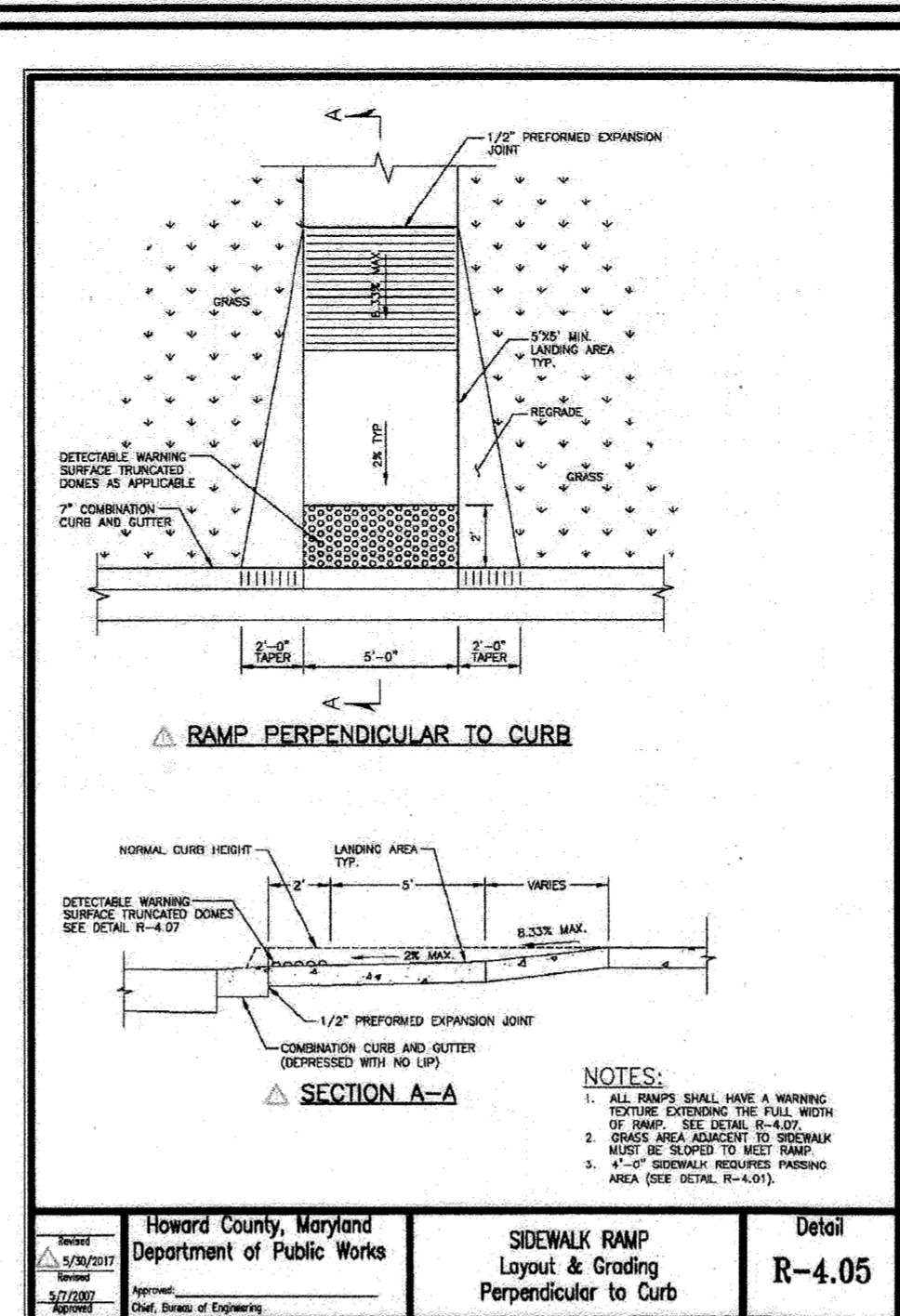
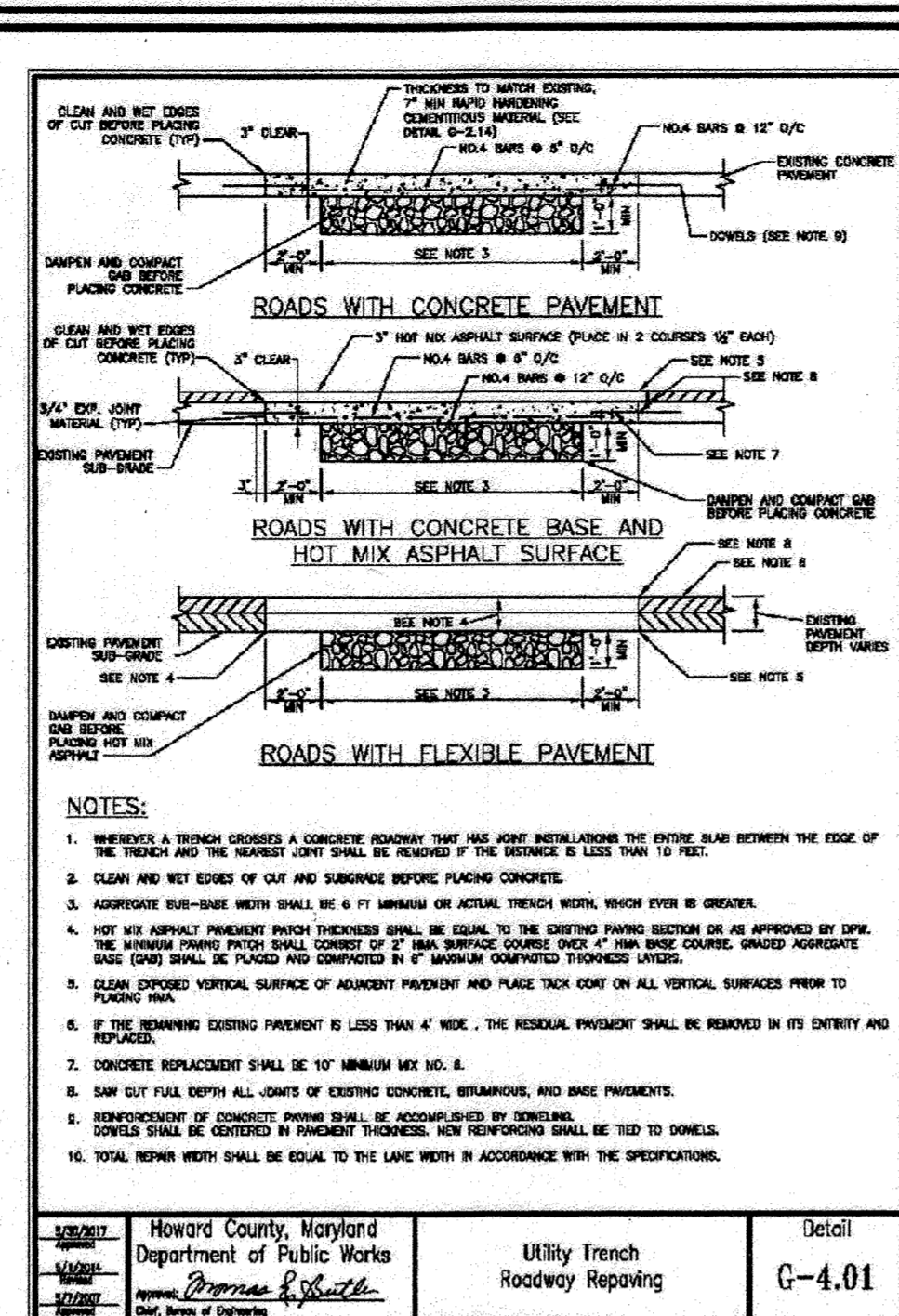
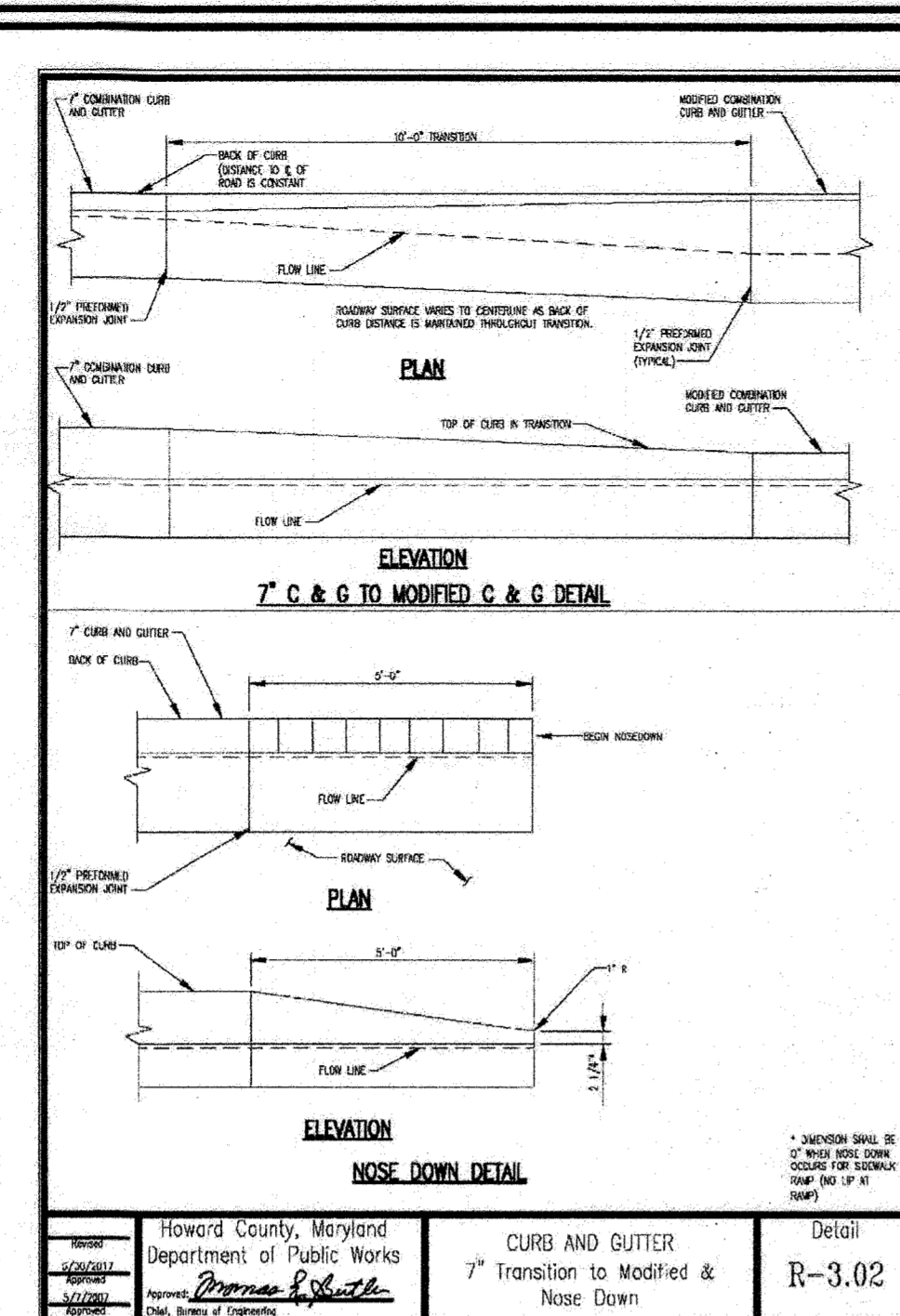
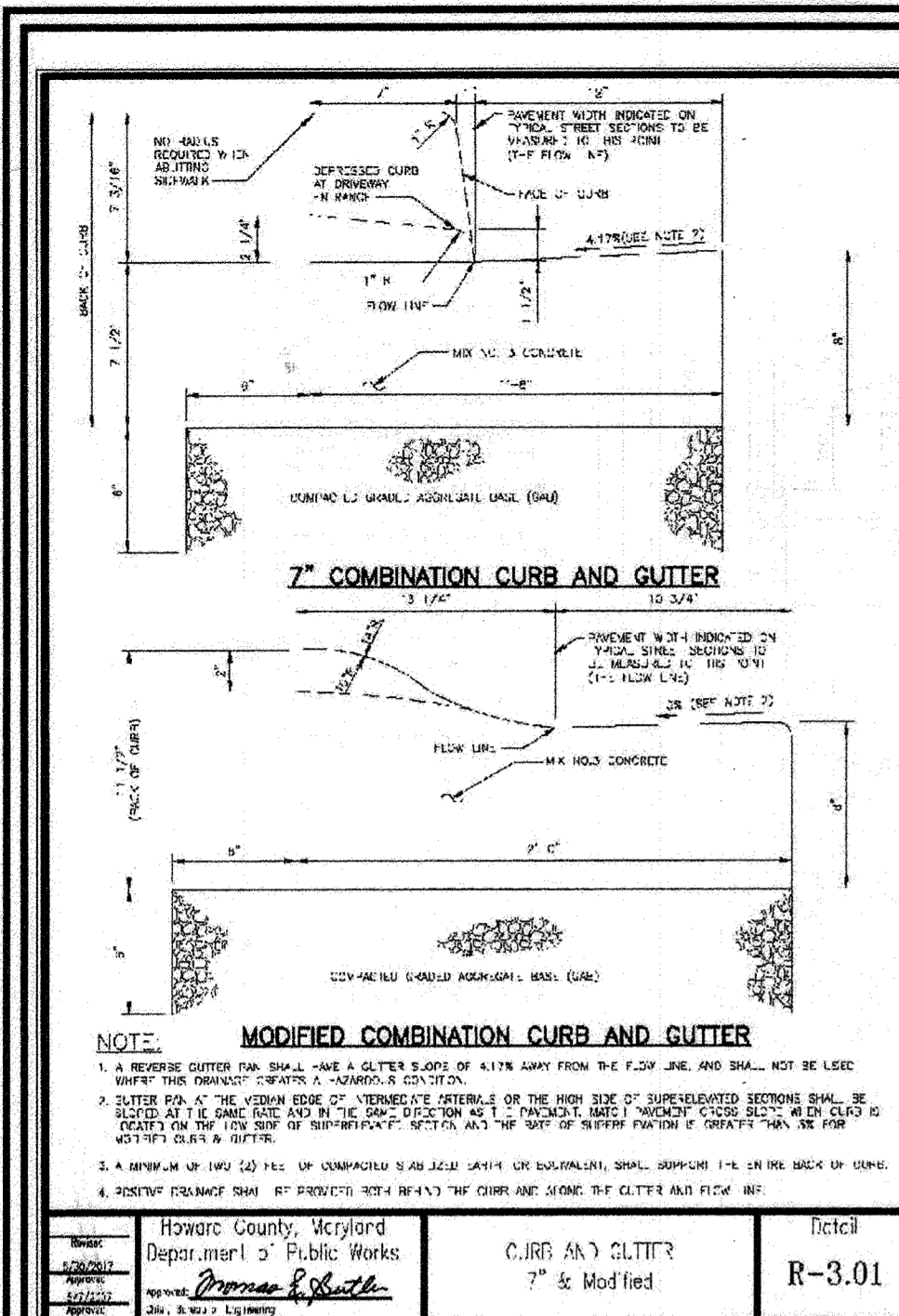
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PROFESSIONAL CERTIFICATE

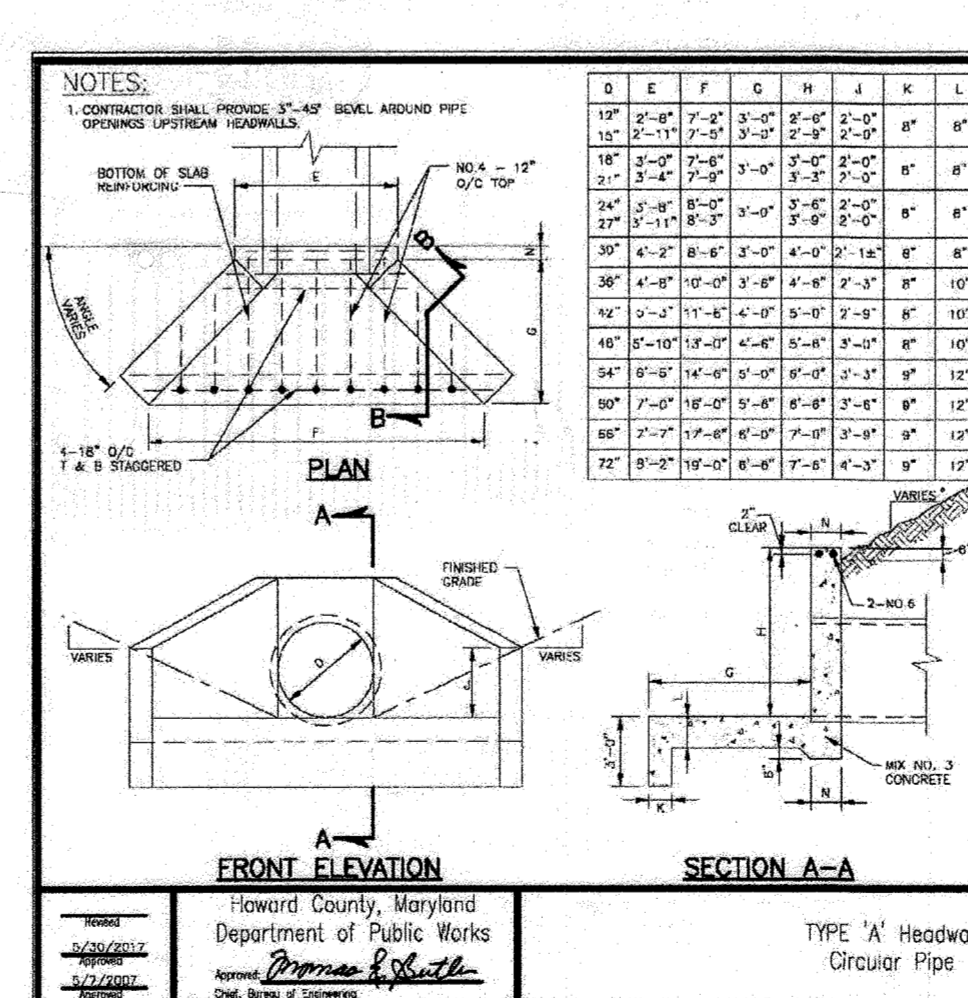
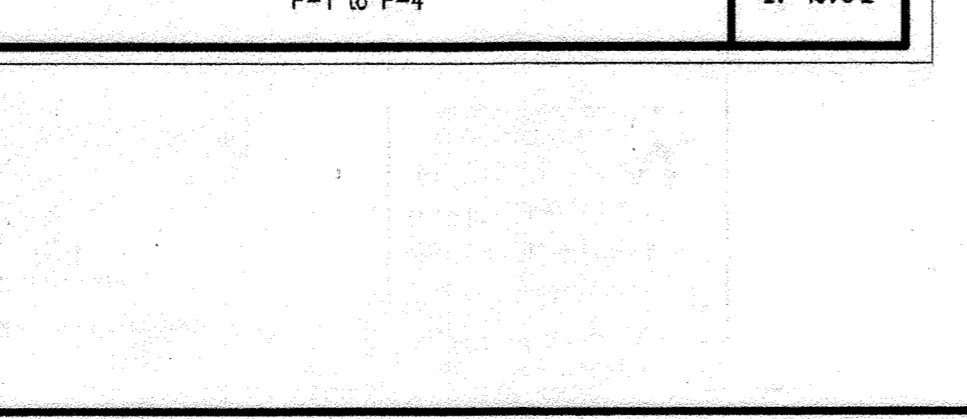
DESIGN BY: GAH/OB
DRAWN BY: GAH/OB
CHECKED BY: RHW
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-76/43575

7 SHEET OF 22

AS-BUILT JAN. 2024 SDP-20-050



SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)	3 TO 15	15 TO 30	30 TO 45	45 TO 60	60 TO 75	75 TO 90	90 TO 100	MIN. SUPERFINE ASPHALT MIX WITH COARSE AGG.	SUPERFINE ASPHALT MIX WITH COARSE AGG.
P-1	PARKING DRIVE: RESIDENTIAL AND NON-RESIDENTIAL	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
P-2	PARKING DRIVE: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10' TRUCKS PER DAY	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
P-3	LOCAL ROAD: ACCESS PLACE, ADDRESS STREET	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
P-4	MAJOR COLLECTOR: MAJOR COLLECTIONS	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 3/30/2022
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 3/30/2022
 CHIEF DIVISION OF LAND DEVELOPMENT
 3/30/2022
 DIRECTOR

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 CURB AND GUTTER
 7" Transition to Modified & Nose Down
 R-3.01

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 UTILITY TRENCH ROADWAY PAVING
 G-4.01

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 SIDEWALK RAMP LAYOUT & GRADING PERPENDICULAR TO CURB
 R-4.05

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 CONCRETE SIDEWALK
 R-3.05

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 SIDEWALK RAMP LAYOUT & GRADING PARALLEL TO CURB & THRU MEDIAN
 R-4.06

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 3/30/2022
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 3/30/2022
 CHIEF DIVISION OF LAND DEVELOPMENT
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 CURB AND GUTTER
 7" Transition to Modified & Nose Down
 R-3.01

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 UTILITY TRENCH ROADWAY PAVING
 G-4.01

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 SIDEWALK RAMP LAYOUT & GRADING PERPENDICULAR TO CURB
 R-4.05

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 CONCRETE SIDEWALK
 R-3.05

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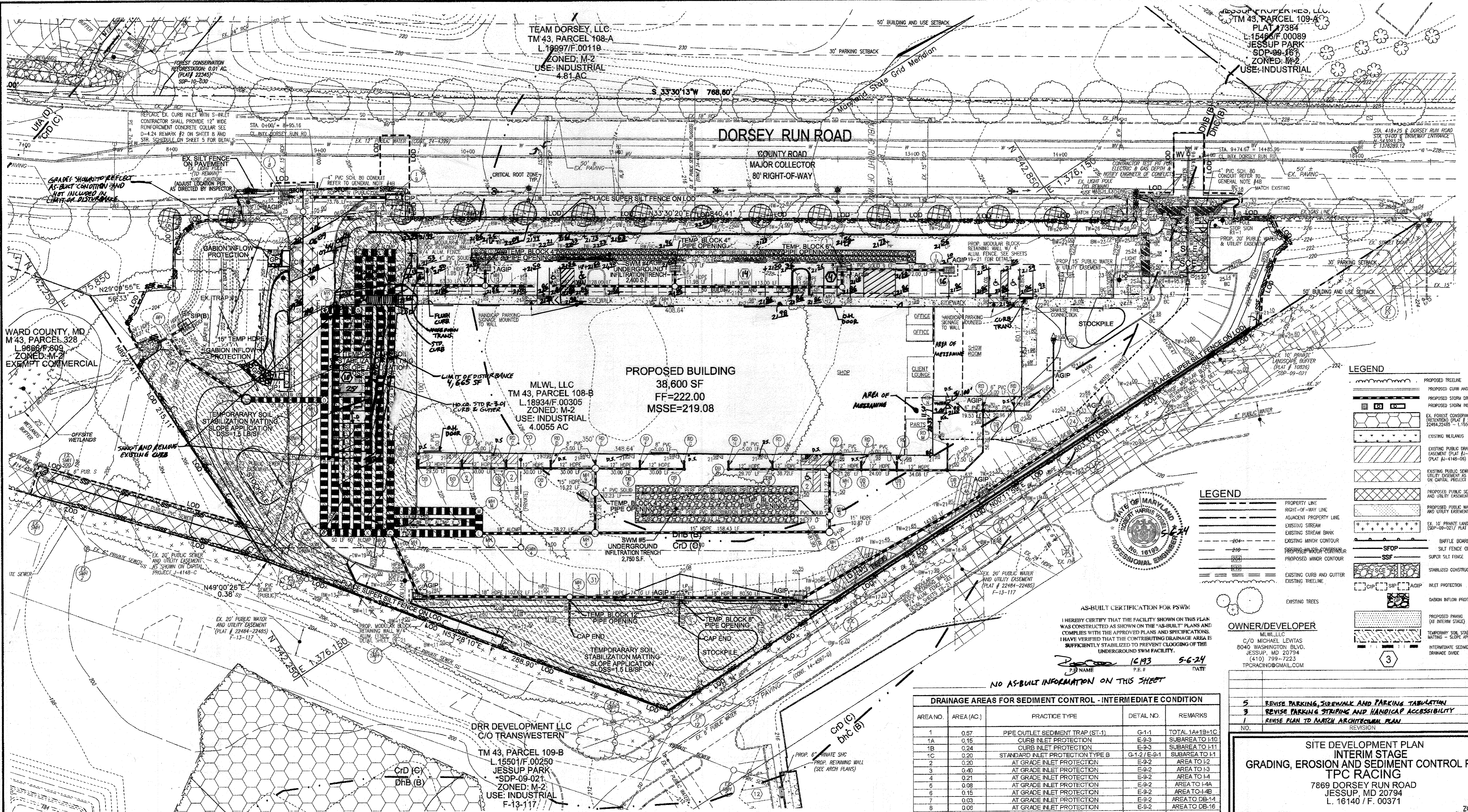
NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
 SITE DETAILS
 TPC RACING
 7869 DORSEY RUN ROAD
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 TAX MAP 43, GRID 22
 1ST ELECTION DISTRICT
 ZONED: M-2
 PARCEL 10B-2
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. I AM ADVISED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.

PROFESSIONAL CERTIFICATE
 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.
 EXPIRATION DATE: 08-27-2022
 DESIGN BY: CAH/OB
 DRAWN BY: CAH/OB
 CHECKED BY: RHV
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 W.O. NO.: 04-76/43575
 8 SHEET OF 22

AS-BUILT JAN. 2024
 SDP-20-050



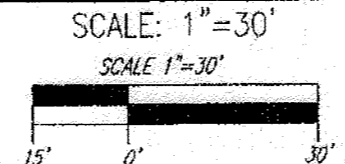
NOTE 1:
SEE STORM DRAIN DRAINAGE AREA MAP, SHEET 5 FOR AREA TO INDIVIDUAL INLETS AND INLET PROTECTION.

NOTE 2:
STABILIZATION IS TO BE DONE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS REQUIRED BY THE 2011 STDS. & SPECS, WHICHEVER IS MORE RESTRICTIVE.

NOTE 3:
SUPER SILT FENCE IS TO BE REPLACED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
SUPER SILT FENCE SHALL BE CURLED UPHILL NO MORE THAN 25' APART.
DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

NOTE 4:
CONTRACTOR SHALL PROVIDE PERM. TREE PROTECTION PER HOWARD COUNTY STD L-9.01.

INTERIM STAGE GRADING, EROSION AND SEDIMENT CONTROL PLAN



DRAINAGE AREAS FOR SEDIMENT CONTROL - INTERMEDIATE CONDITION

AREA NO.	AREA (AC)	PRACTICE TYPE	DETAIL NO.	REMARKS
1	0.57	PIPE OUTLET SEDIMENT TRAP (ST-1)	G-1.1	TOTAL 1A+1B+1C
1A	0.15	CURB INLET PROTECTION	E-9.3	SUBAREA TO 1A
1B	0.24	CURB INLET PROTECTION	E-9.3	SUBAREA TO 1B
1C	0.18	STANDARD INLET PROTECTION TYPE B	G-1.2/E-9.1	SUBAREA TO 1C
2	0.20	AT GRADE INLET PROTECTION	E-9.2	AREA TO 2
3	0.40	AT GRADE INLET PROTECTION	E-9.2	AREA TO 3
4	0.21	AT GRADE INLET PROTECTION	E-9.2	AREA TO 4
5	0.09	AT GRADE INLET PROTECTION	E-9.2	AREA TO 5
6	0.15	AT GRADE INLET PROTECTION	E-9.2	AREA TO 6
7	0.05	AT GRADE INLET PROTECTION	E-9.2	AREA TO 7
8	0.05	AT GRADE INLET PROTECTION	E-9.2	AREA TO 8
9	0.12	AT GRADE INLET PROTECTION	E-9.2	AREA TO 9
10	0.13	AT GRADE INLET PROTECTION	E-9.2	AREA TO 10
11	0.10	AT GRADE INLET PROTECTION	E-9.2	AREA TO 11
12	0.23	AT GRADE INLET PROTECTION	E-9.2	AREA TO 12
13	0.15	AT GRADE INLET PROTECTION	E-9.2	AREA TO 13
14	0.12	CURB INLET PROTECTION	E-9.3	AREA TO 14
15	0.19	SUPER SILT FENCE	E-3	TO NORTH
16	0.51	SUPER SILT FENCE	E-3	TO SOUTH

MAPPED SOILS TYPES - SAVAGE SE MAP #25

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	HYDRIC	HYDRIC INCLUSIONS	PRIME FARMLAND	<15% SLOPE W/ EROSION POTENTIAL
DhB	DOWNER-HAMMONTON SANDY LOAM, 2 TO 5 PERCENT	B	.17	NO	NO	NO	NO
DhC	DOWNER-HAMMONTON SANDY LOAM, 5 TO 10 PERCENT	B	.17	NO	NO	NO	NO
C:D	CROOM AND EVESBORO SOILS, 10 TO 15 PERCENT SLOPES	C	.37	NO	NO	NO	YES

TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY
NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

LEGEND

- PROPOSED TREE LINE
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EX. FOREST CONSERVATION EASEMENT (RESIDENTIAL) (PLAT # 2194, 2294-2245 / L.1561/PT.10250)
- EXISTING MEADOWS
- EXISTING PUBLIC DRAINAGE EASEMENT (PLAT # 4148-05) (PLAT # 4148-05)
- EXISTING PUBLIC SEWER AND UTILITY EASEMENT AS SHOWN ON CAPITAL PROJECT J-4148-C
- PROPOSED PUBLIC SEWER AND UTILITY EASEMENT
- PROPOSED PUBLIC WATER AND UTILITY EASEMENT
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING TREE LINE
- EXISTING TREES
- PROPOSED TREE LINE
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EX. FOREST CONSERVATION EASEMENT (RESIDENTIAL) (PLAT # 2194, 2294-2245 / L.1561/PT.10250)
- EXISTING MEADOWS
- EXISTING PUBLIC DRAINAGE EASEMENT (PLAT # 4148-05) (PLAT # 4148-05)
- EXISTING PUBLIC SEWER AND UTILITY EASEMENT AS SHOWN ON CAPITAL PROJECT J-4148-C
- PROPOSED PUBLIC SEWER AND UTILITY EASEMENT
- PROPOSED PUBLIC WATER AND UTILITY EASEMENT
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING TREE LINE
- EXISTING TREES
- PROPOSED TREE LINE
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EX. FOREST CONSERVATION EASEMENT (RESIDENTIAL) (PLAT # 2194, 2294-2245 / L.1561/PT.10250)
- EXISTING MEADOWS
- EXISTING PUBLIC DRAINAGE EASEMENT (PLAT # 4148-05) (PLAT # 4148-05)
- EXISTING PUBLIC SEWER AND UTILITY EASEMENT AS SHOWN ON CAPITAL PROJECT J-4148-C
- PROPOSED PUBLIC SEWER AND UTILITY EASEMENT
- PROPOSED PUBLIC WATER AND UTILITY EASEMENT
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING TREE LINE
- EXISTING TREES
- PROPOSED TREE LINE
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EX. FOREST CONSERVATION EASEMENT (RESIDENTIAL) (PLAT # 2194, 2294-2245 / L.1561/PT.10250)
- EXISTING MEADOWS
- EXISTING PUBLIC DRAINAGE EASEMENT (PLAT # 4148-05) (PLAT # 4148-05)
- EXISTING PUBLIC SEWER AND UTILITY EASEMENT AS SHOWN ON CAPITAL PROJECT J-4148-C
- PROPOSED PUBLIC SEWER AND UTILITY EASEMENT
- PROPOSED PUBLIC WATER AND UTILITY EASEMENT
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)
- EX. 10' PRIVATE LANDSCAPE BUFFER (PLAT # 10293) (SDP-09-021)

AS-BUILT CERTIFICATION FOR PSWM:
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

OWNER/DEVELOPER
MLW, LLC
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 799-7223
TPCRACING@GMAIL.COM

PROFESSIONAL ENGINEER
REL VOGEL
NO. 16193
DATE: 5-6-24

NO.	REVISION	DATE
5	REVISE PARKING, SIDEWALK AND PARKING TABULATION	5-15-24
3	REVISE PARKING STRIPING AND HANDICAP ACCESSIBILITY	12-11-23
1	REVISE PLAN TO MATCH ARCHITECTURAL PLAN	4-19-23

SITE DEVELOPMENT PLAN INTERIM STAGE GRADING, EROSION AND SEDIMENT CONTROL PLAN TPC RACING
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371
ZONED: M-2
PARCEL 108-B
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RICHMOND ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
DESIGN BY: GAI/QB
DRAWN BY: GAI/QB
CHECKED BY: RHV
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-78/43575
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16193 EXPIRATION DATE 08-27-2025

9 SHEET OF 22

AS-BUILT JAN. 2024 SDP-20-050

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief of Development Engineering Division
Chief of Division of Land Development
Director

OWNER/DEVELOPER CERTIFICATION:
I, MICHAEL LEVITAS, CERTIFY THAT ANY GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

OWNER/DEVELOPER SIGNATURE: Michael Levitas
PRINTED NAME & TITLE: Michael Levitas partner

DESIGN CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Designed by: Robert H. Vogel
DESIGNER'S SIGNATURE: Robert H. Vogel
PRINTED NAME: Robert H. Vogel
DATE: 3/7/2022
NO. REGISTRATION NO. 16193
R.L.S. OR R.L.A. (circle one)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Designed by: Alexander Bratovic
DATE: 3/29/2022
HOWARD S.C.D.

TEAM DORSEY, LLC.
TM 43, PARCEL 108-A
L. 19997/F. 00119
ZONED: M-2
USE: INDUSTRIAL
4.81 AC

JESSUP PROPERTIES, LLC.
TM 43, PARCEL 109-A
PLAT # 17384
L. 15460/F. 00089
JESSUP PARK
SDP-09-167
ZONED: M-2
USE: INDUSTRIAL

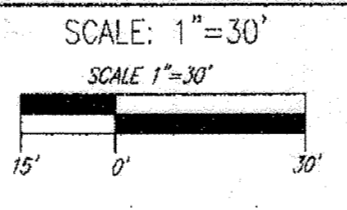
WARD COUNTY, MD.
M 43, PARCEL 328
L. 9686/F. 609
ZONED: M-2
EXEMPT COMMERCIAL

PROPOSED BUILDING
38,600 SF
FF=222.00
MSSE=221.70

MLWL, LLC
TM 43, PARCEL 108-B
L. 18934/F. 00305
ZONED: M-2
USE: INDUSTRIAL
4.0055 AC

DRR DEVELOPMENT LLC
C/O TRANSWESTERN
TM 43, PARCEL 109-B
L. 15501/F. 00250
JESSUP PARK
SDP-09-021
ZONED: M-2
USE: INDUSTRIAL
F-13-117

FINAL STAGE GRADING,
EROSION AND SEDIMENT CONTROL PLAN



LEGEND

- PROPOSED TREE LINE
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EX. FOREST CONSERVATION EASEMENT (RETENTION) (PLAT # 21049, 22404, 22465 - L. 15351/F. 00250)
- EXISTING WETLANDS
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED STORMWATER FACILITY
- PROPOSED MAJOR CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING TREE LINE
- EXISTING TREES
- PROPOSED PUBLIC SEWER AND UTILITY EASEMENT
- PROPOSED PUBLIC WATER AND UTILITY EASEMENT
- EX. 10' PRIVATE LANDSCAPE BUFFER (SDP-09-021/ PLAT #10826)
- SSP
- SFP
- SCF
- SCB
- CIP
- SIP
- AGIP
- INLET PROTECTION

AS-BUILT CERTIFICATION FOR PSWM
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

DATE: 5-6-24
P.E. # 16193

OWNER/DEVELOPER
MLWL, LLC
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 739-7223
TPCRACING9@gmail.com

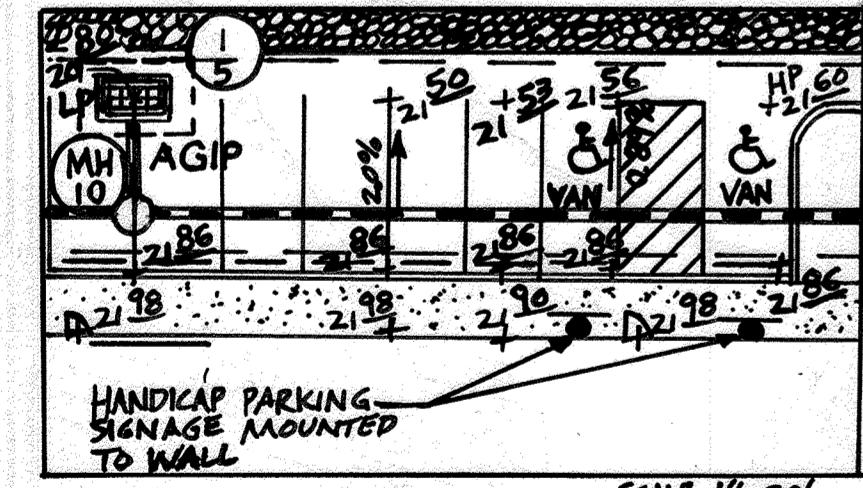
SEDIMENT CONTROL - FINAL CONDITION

AREA NO.	AREA (AC.)	PRACTICE TYPE	DETAIL NO.	REMARKS
1	0.57	PIPE OUTLET SEDIMENT TRAP (ST-1)	G-1-1	TOTAL 1A+1B+1C
1A	0.15	CURB INLET PROTECTION	E-9-3	SUBAREA TO I-10
1B	0.22	CURB INLET PROTECTION	E-9-3	SUBAREA TO I-11
1C	0.20	STANDARD INLET PROTECTION TYPE B	G-1-2/E-9-1	SUBAREA TO I-11
2	0.20	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-2
3	0.21	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-3
4	0.21	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-4
5	0.08	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-4A
6	0.15	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-4B
7	0.03	AT GRADE INLET PROTECTION	E-9-2	AREA TO DB-14
8	0.06	AT GRADE INLET PROTECTION	E-9-2	AREA TO DB-16
9	0.12	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-5
10	0.13	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-6
11	0.10	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-7
12	0.23	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-7A
13	0.15	AT GRADE INLET PROTECTION	E-9-2	AREA TO I-8
14	0.12	CURB INLET PROTECTION	E-9-3	AREA TO I-9
15	0.10	SUPER SILT FENCE	E-3	TO NORTH
16	0.10	STANDARD INLET PROTECTION TYPE A	G-1-2/E-9-1	TO SOUTH

MAPPED SOILS TYPES - SAVAGE SE MAP #25

SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	HYDRIC	HYDRIC INCLUSIONS	PRIME FARMLAND	<15% SLOPE W/ EROSION POTENTIAL
DNB	DOWNER-HAMMONTON SANDY LOAM, 2 TO 5 PERCENT	B	.17	NO	NO	NO	NO
DNC	DOWNER-HAMMONTON SANDY LOAM, 5 TO 10 PERCENT	B	.17	NO	NO	NO	NO
CD	CROOM AND EVESBORO SOILS, 10 TO 15 PERCENT SLOPES	C	.37	NO	NO	NO	YES

TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY
NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT



NOTE 1:
SEE STORM DRAIN DRAINAGE AREA MAP, SHEET 5 FOR AREA TO INDIVIDUAL INLETS AND INLET PROTECTION.

NOTE 2:
STABILIZATION IS TO BE DONE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS REQUIRED BY THE 2011 STDS. & SPECS, WHICHEVER IS MORE RESTRICTIVE.

NOTE 3:
-SUPER SILT FENCE IS TO BE REPLACED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
-SUPER SILT FENCE SHALL BE CURLED UPHILL NO MORE THAN 25° APART.
-DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

NOTE 4:
CONTRACTOR SHALL PROVIDE PERM. TREE PROTECTION PER HOWARD COUNTY STD L-9.01.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division
DATE: 3/30/2022

Chief, Division of Land Development
DATE: 3/30/2022

OWNER/DEVELOPER CERTIFICATION:
I HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

OWNER/DEVELOPER SIGNATURE: Michael Levitas, Partner
DATE: 2/24/2022

DESIGN CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS AND STANDARDS THAT REPRESENTS HONORABLE AND WORKMANLIKE PROFESSIONAL JUDGMENT BASED ON AN INSPECTION OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DESIGNED BY: Rob Vogel
DATE: 3/7/2022

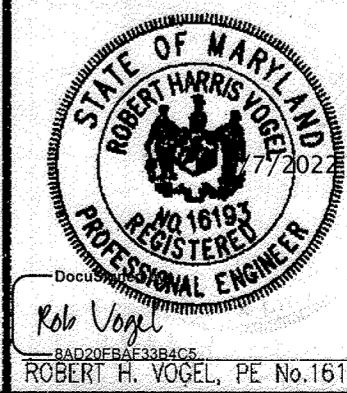
DESIGNER'S SIGNATURE: Alexander Bratchie
DATE: 3/29/2022

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED BY: Alexander Bratchie
DATE: 3/29/2022

SITE DEVELOPMENT PLAN
FINAL STAGE
GRADING, EROSION AND SEDIMENT CONTROL PLAN
TPC RACING
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 18140 / F. 00371

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGEBE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com



DESIGN BY: CAH/OB
DRAWN BY: CAH/OB
CHECKED BY: RHV
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-76/43575

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16193 EXPIRATION DATE 09-27-2022

10 SHEET OF 22

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS... 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN... 3. FERTILIZER AND PESTICIDE APPLICATIONS... 4. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

B-4-2 STANDARDS AND CONSTRUCTION NOTES FOR TEMPORARY STABILIZATION

1. TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

TEMPORARY SEEDING SUMMARY table with columns for HARNESS ZONE, SEED MIXTURE, APPLICATION RATE, SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE, and LIME RATE.

B-4-3 STANDARDS AND CONSTRUCTION NOTES FOR STOCKPILE AREA

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN... 2. THE STOCKPILE AREA MUST BE PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL PRACTICES... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Chief Development Engineering Division, Date: 3/30/2022. Director, Date: 3/30/2022.

B-4-5 STANDARDS AND CONSTRUCTION NOTES FOR PERMANENT STABILIZATION

1. TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

B-4-4 STANDARDS AND CONSTRUCTION NOTES FOR TEMPORARY STABILIZATION

1. TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

PERMANENT SEEDING SUMMARY table with columns for HARNESS ZONE, SEED MIXTURE, APPLICATION RATE, SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE, and LIME RATE.

B-4-3 STANDARDS AND CONSTRUCTION NOTES FOR STOCKPILE AREA

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN... 2. THE STOCKPILE AREA MUST BE PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL PRACTICES... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

OWNER CERTIFICATION: I HAVE REVIEWED THIS PLAN AND CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT HOWARD COUNTY EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS AND STANDARDS... 3/7/2022. Designer's Signature: Robert H. Vogel, Date: 3/7/2022.

R-4-2 STANDARDS AND CONSTRUCTION NOTES FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

1. TO PREPARE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

R-4-3 STANDARDS AND CONSTRUCTION NOTES FOR SEEDING AND MULCHING

1. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

R-4-4 STANDARDS AND CONSTRUCTION NOTES FOR SILT FENCE ON PAVEMENT

1. THE SILT FENCE MUST BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN ON SHEET 2 OF 2... 2. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.



CONSTRUCTION SPECIFICATIONS table for Silt Fence on Pavement, including items like use of nominal 2 inch x 4 inch lumber, use of woven silt fabric, etc.

R-4-5 STANDARDS AND CONSTRUCTION NOTES FOR CURB INLET PROTECTION

1. TO PREVENT UNDESIRABLE PRACTICES APPLICABLE TO THE SURFACE OF ALL PAVED AREAS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.



CONSTRUCTION SPECIFICATIONS table for Curb Inlet Protection, including items like use of nominal 2 inch x 4 inch lumber, use of woven silt fabric, etc.

R-4-6 STANDARDS AND CONSTRUCTION NOTES FOR AT-GRADE INLET PROTECTION

1. TO PREVENT UNDESIRABLE PRACTICES APPLICABLE TO THE SURFACE OF ALL PAVED AREAS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.



CONSTRUCTION SPECIFICATIONS table for At-Grade Inlet Protection, including items like use of nominal 2 inch x 4 inch lumber, use of woven silt fabric, etc.

R-4-7 STANDARDS AND CONSTRUCTION NOTES FOR ROCK OUTLET PROTECTION III

1. TO PREVENT UNDESIRABLE PRACTICES APPLICABLE TO THE SURFACE OF ALL PAVED AREAS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

R-4-8 STANDARDS AND CONSTRUCTION NOTES FOR STANDARD INLET PROTECTION

1. TO PREVENT UNDESIRABLE PRACTICES APPLICABLE TO THE SURFACE OF ALL PAVED AREAS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.



CONSTRUCTION SPECIFICATIONS table for Rock Outlet Protection III, including items like use of nominal 2 inch x 4 inch lumber, use of woven silt fabric, etc.

R-4-9 STANDARDS AND CONSTRUCTION NOTES FOR STABILIZED CONSTRUCTION ENTRANCE

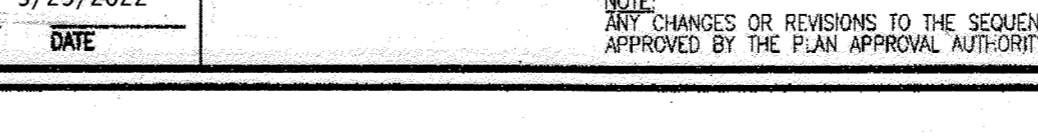
1. TO PREVENT UNDESIRABLE PRACTICES APPLICABLE TO THE SURFACE OF ALL PAVED AREAS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.



CONSTRUCTION SPECIFICATIONS table for Standard Inlet Protection, including items like use of nominal 2 inch x 4 inch lumber, use of woven silt fabric, etc.

R-4-10 STANDARDS AND CONSTRUCTION NOTES FOR STABILIZED CONSTRUCTION ENTRANCE

1. TO PREVENT UNDESIRABLE PRACTICES APPLICABLE TO THE SURFACE OF ALL PAVED AREAS... 2. SEEDING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... 3. STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.



CONSTRUCTION SPECIFICATIONS table for Stabilized Construction Entrance, including items like use of nominal 2 inch x 4 inch lumber, use of woven silt fabric, etc.

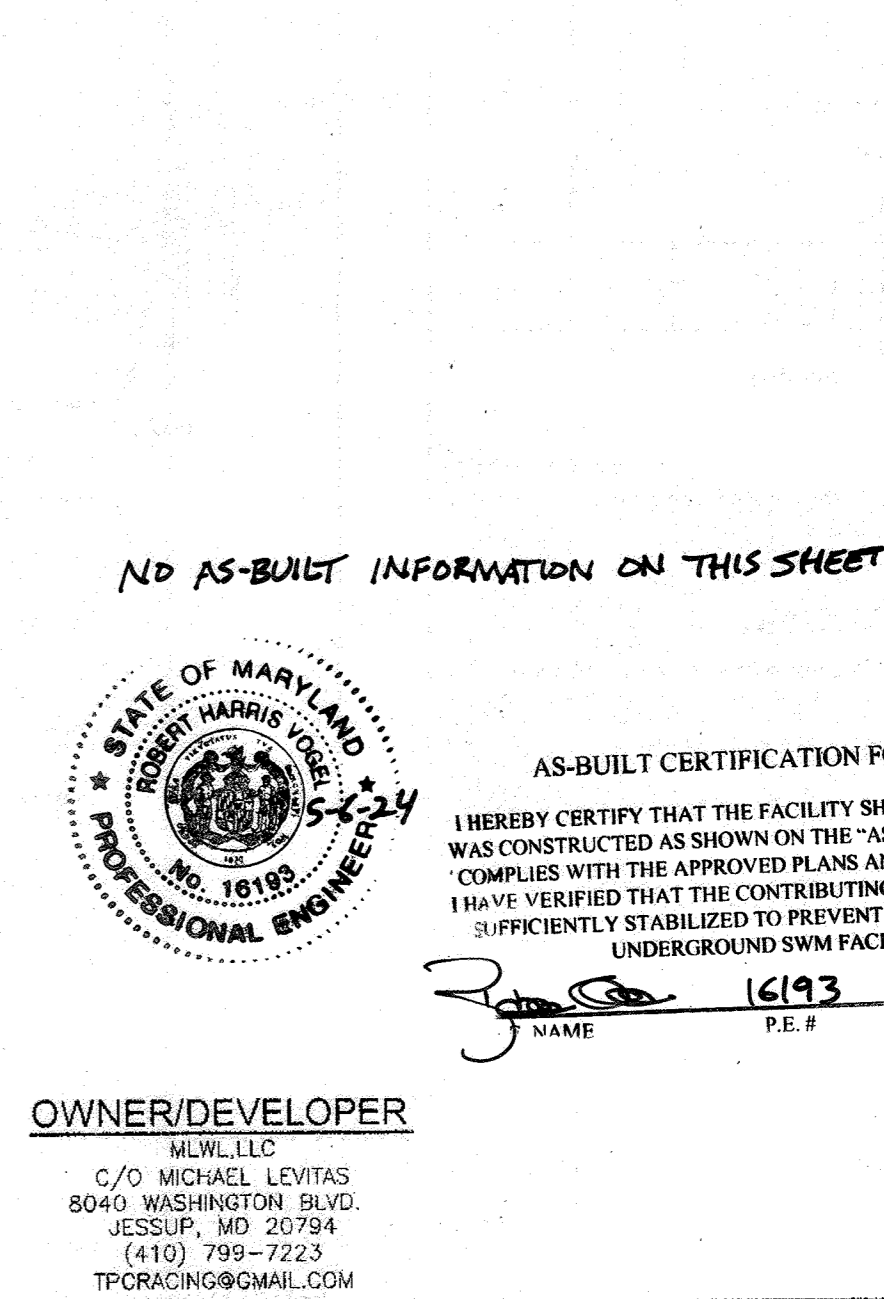
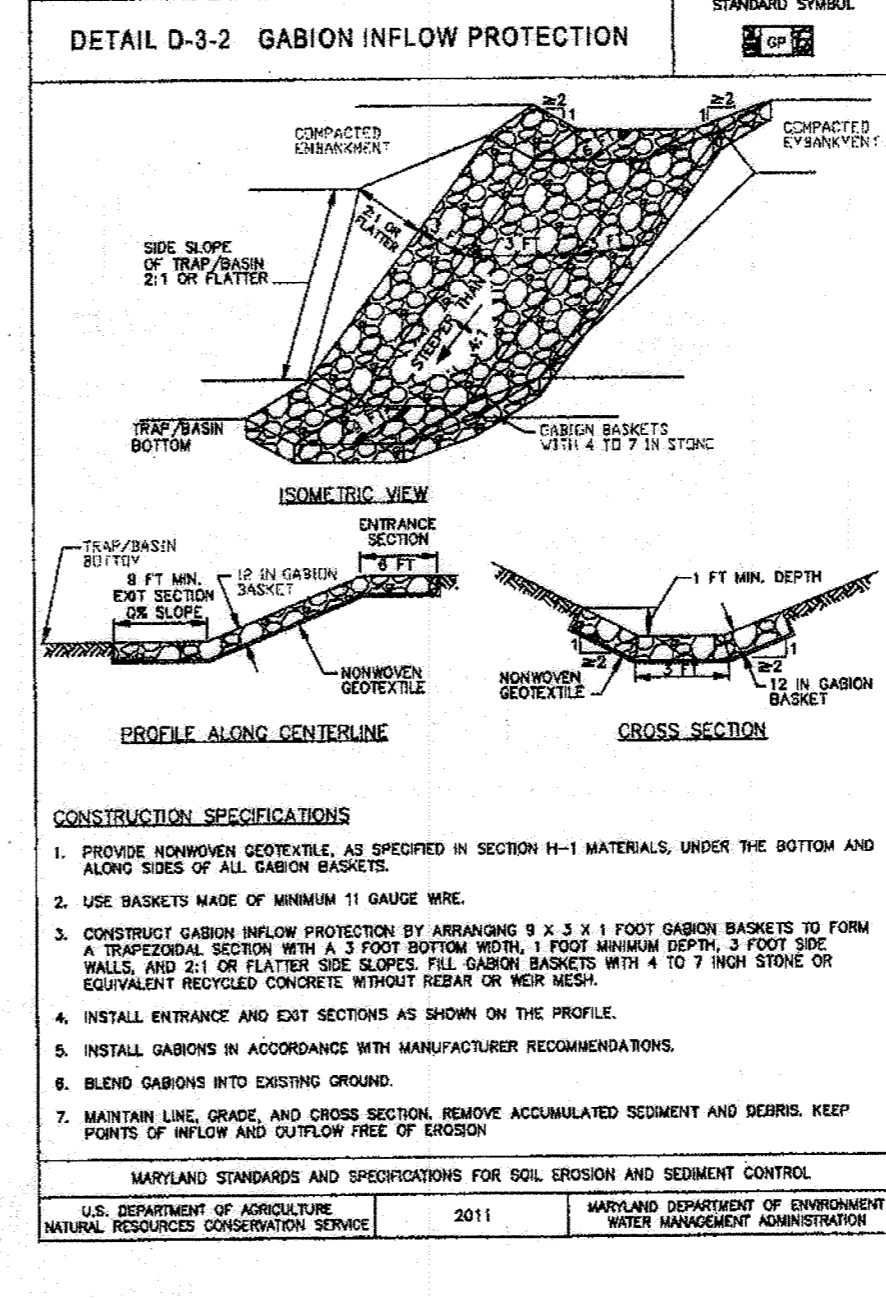
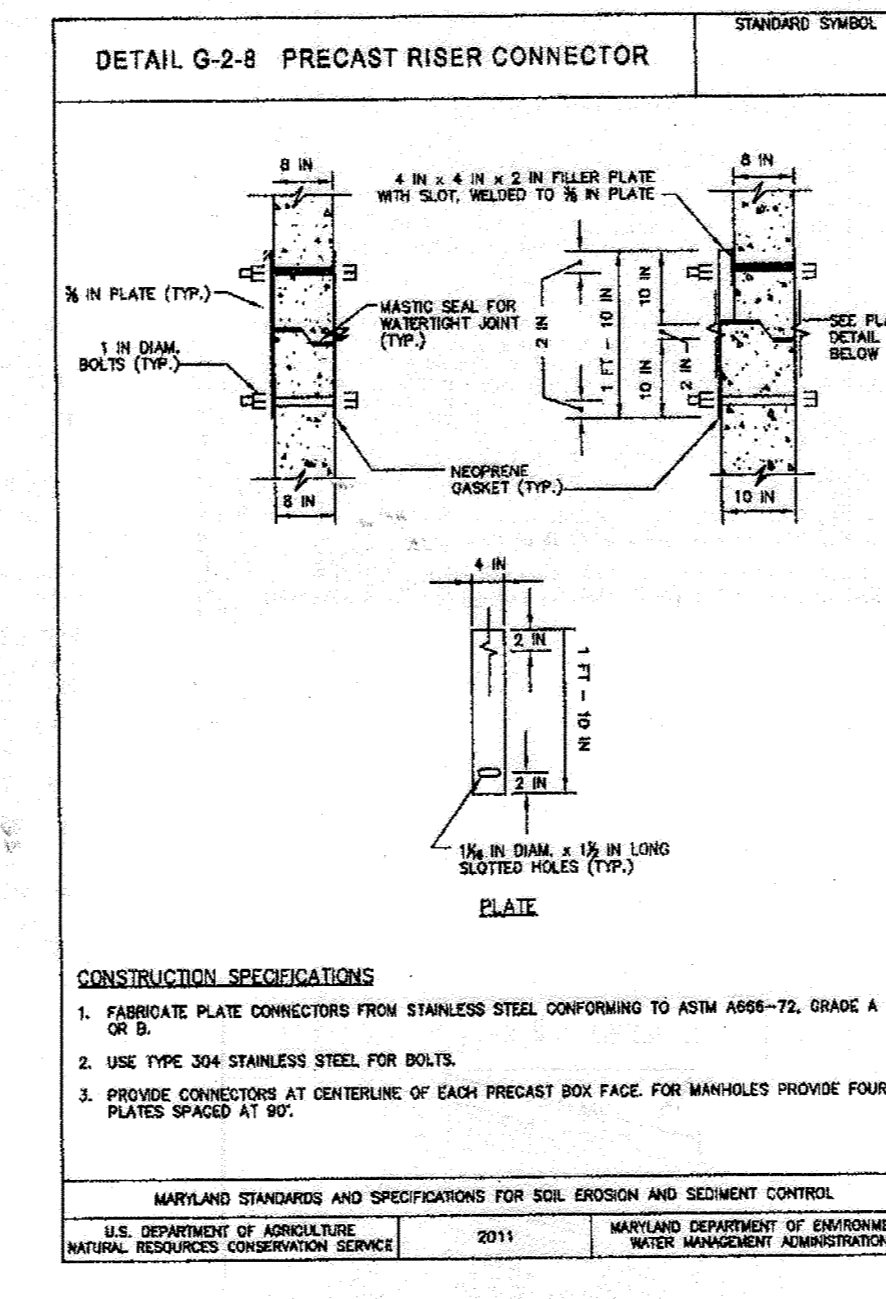
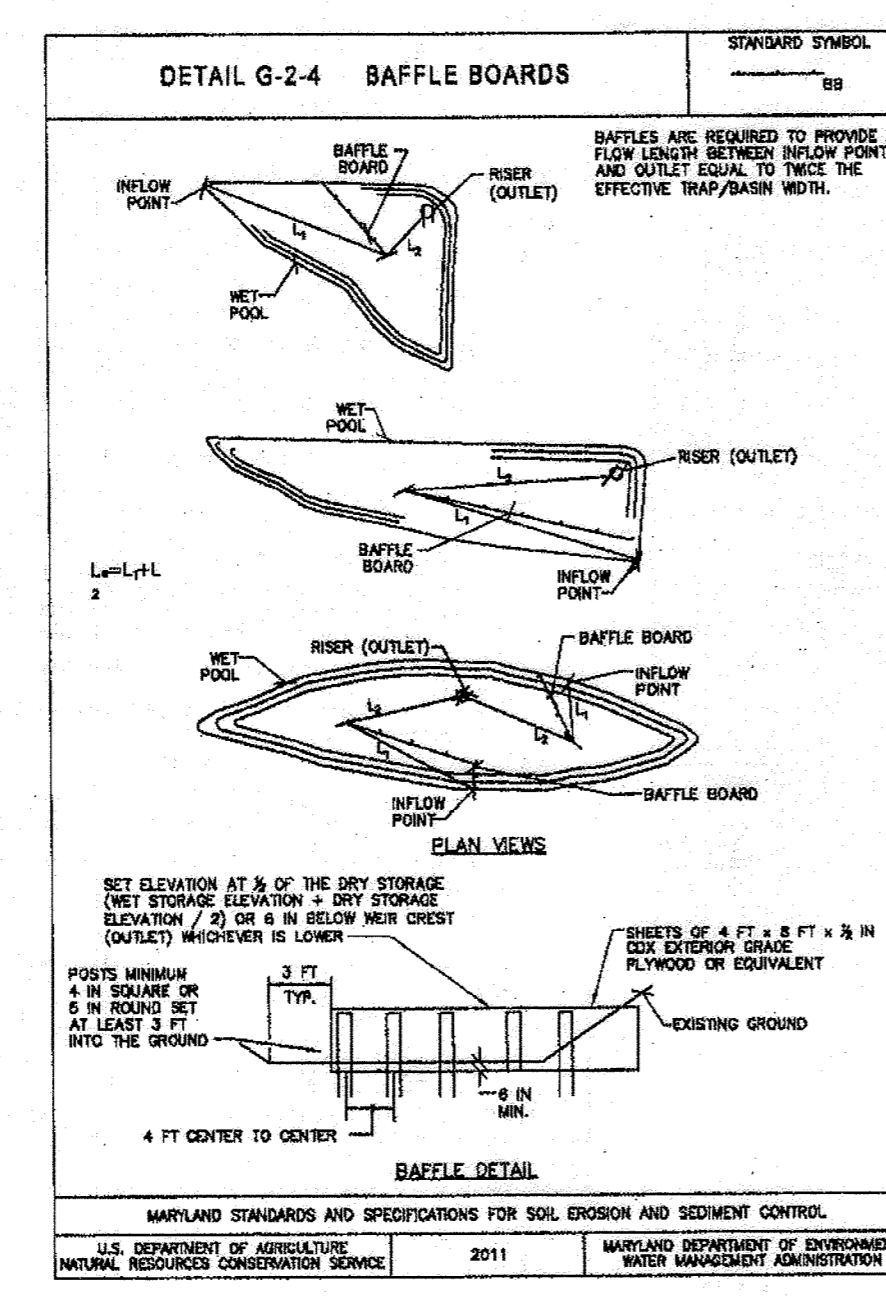
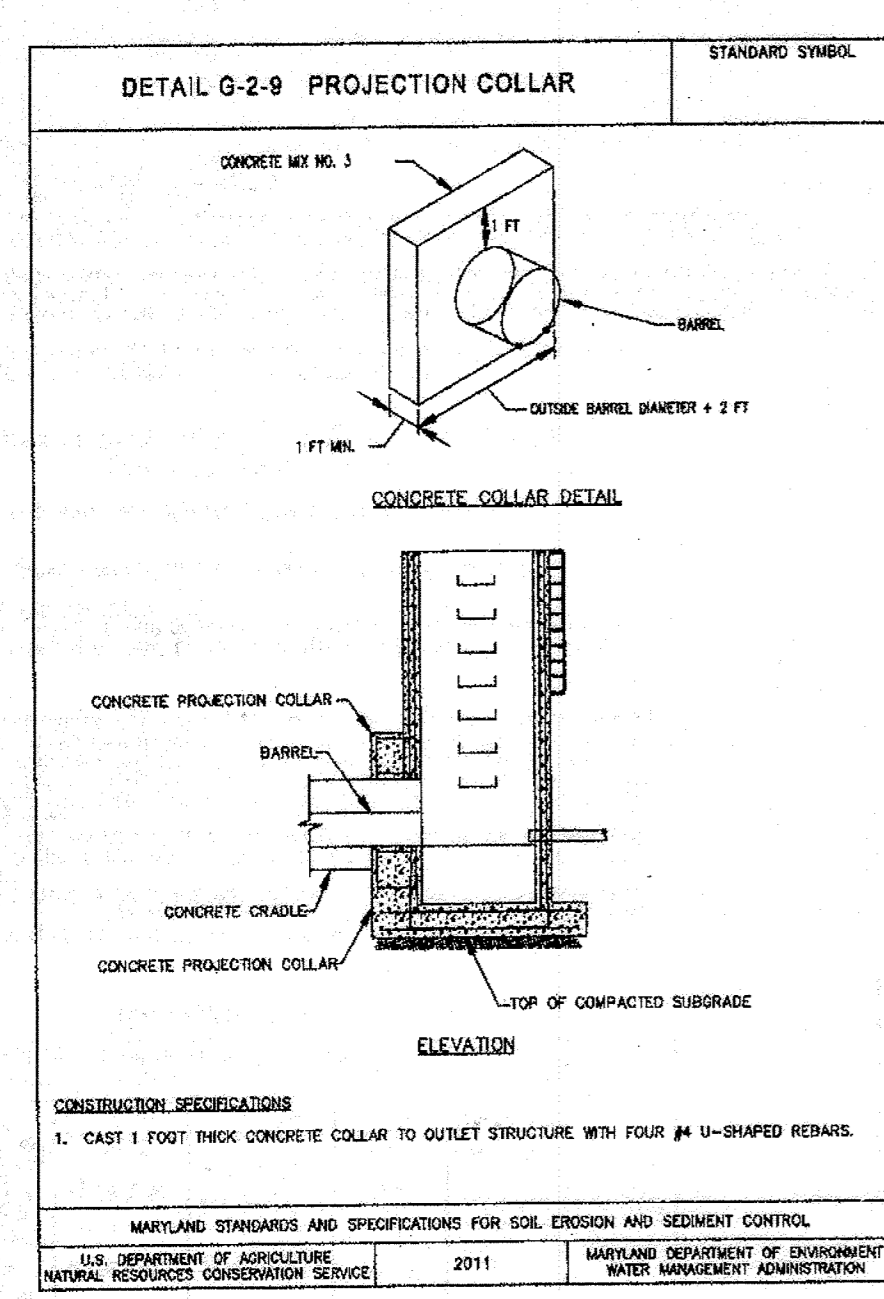
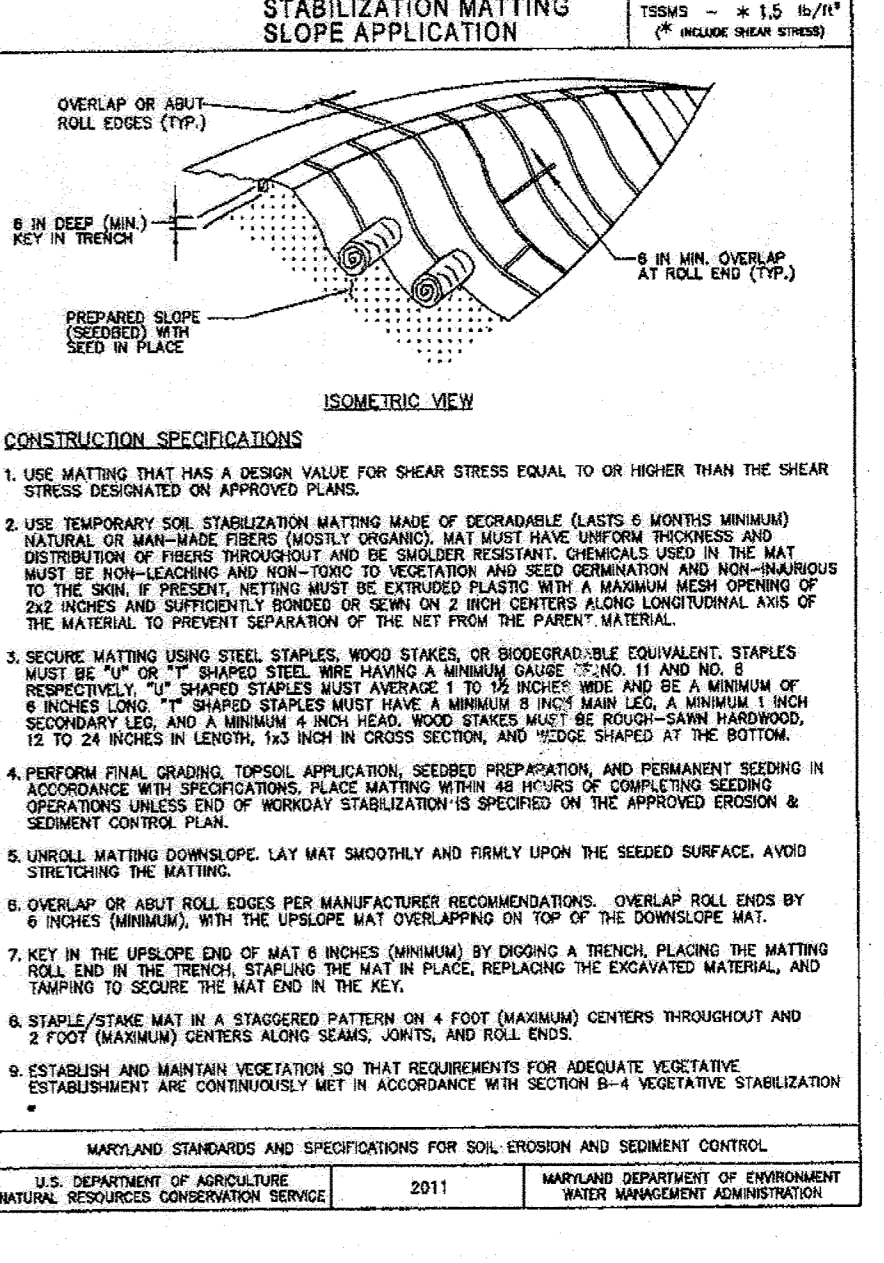
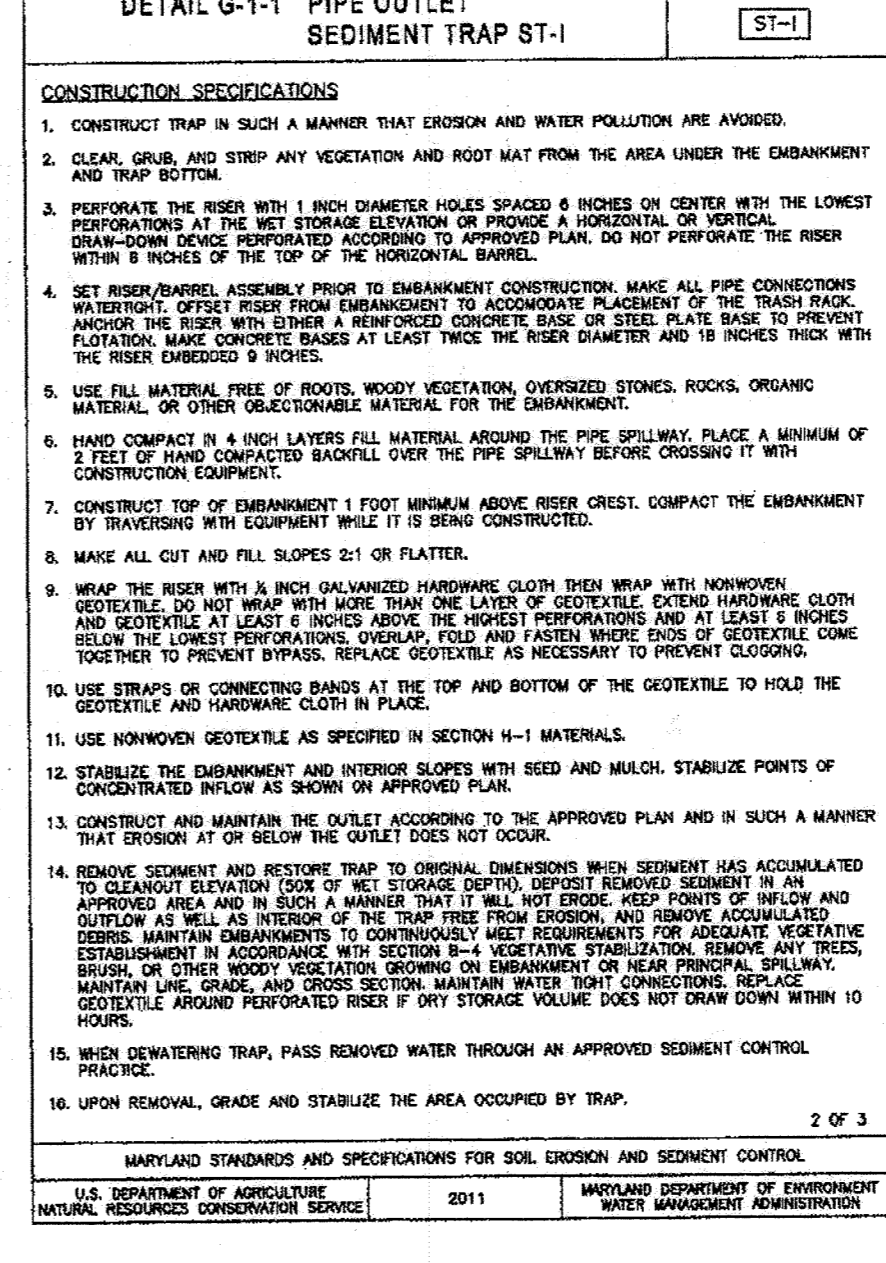
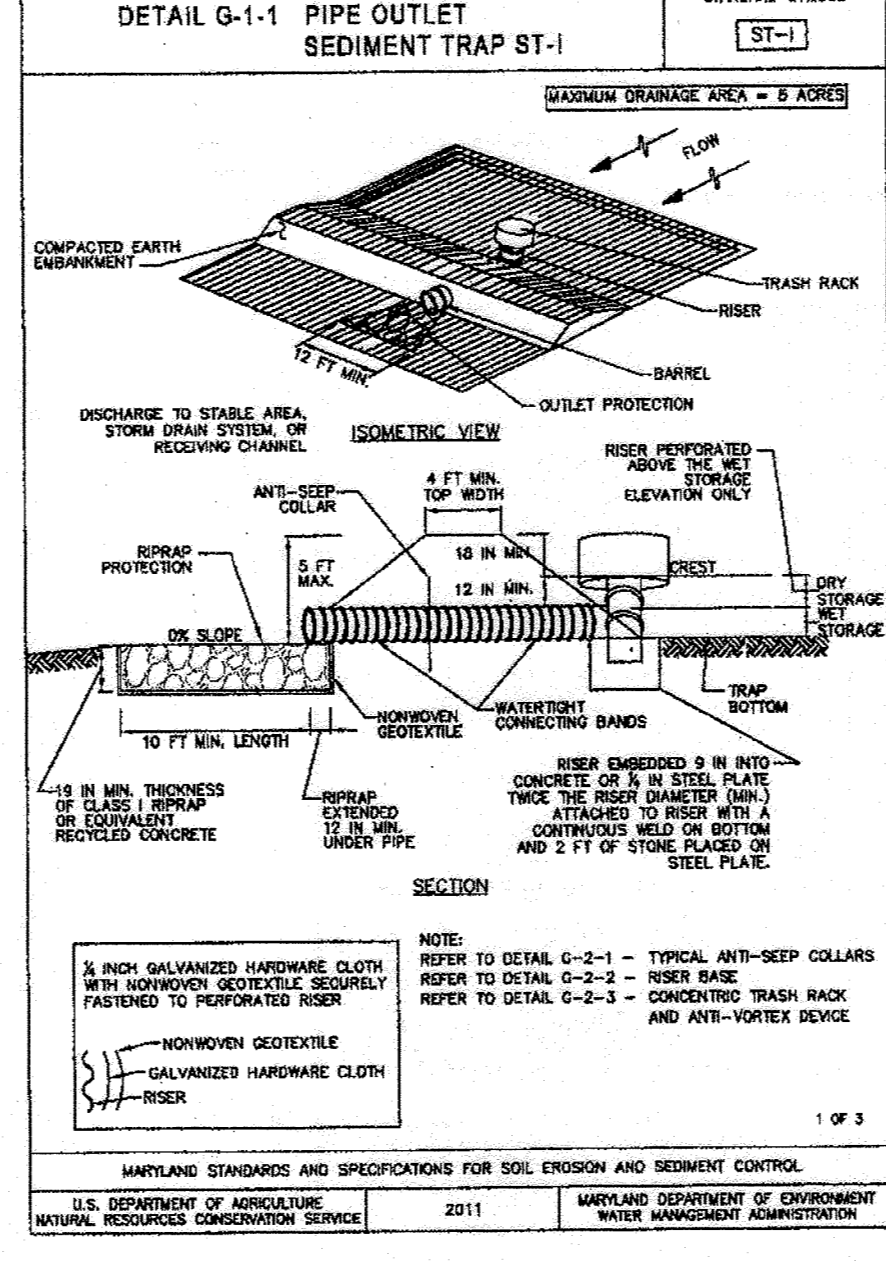
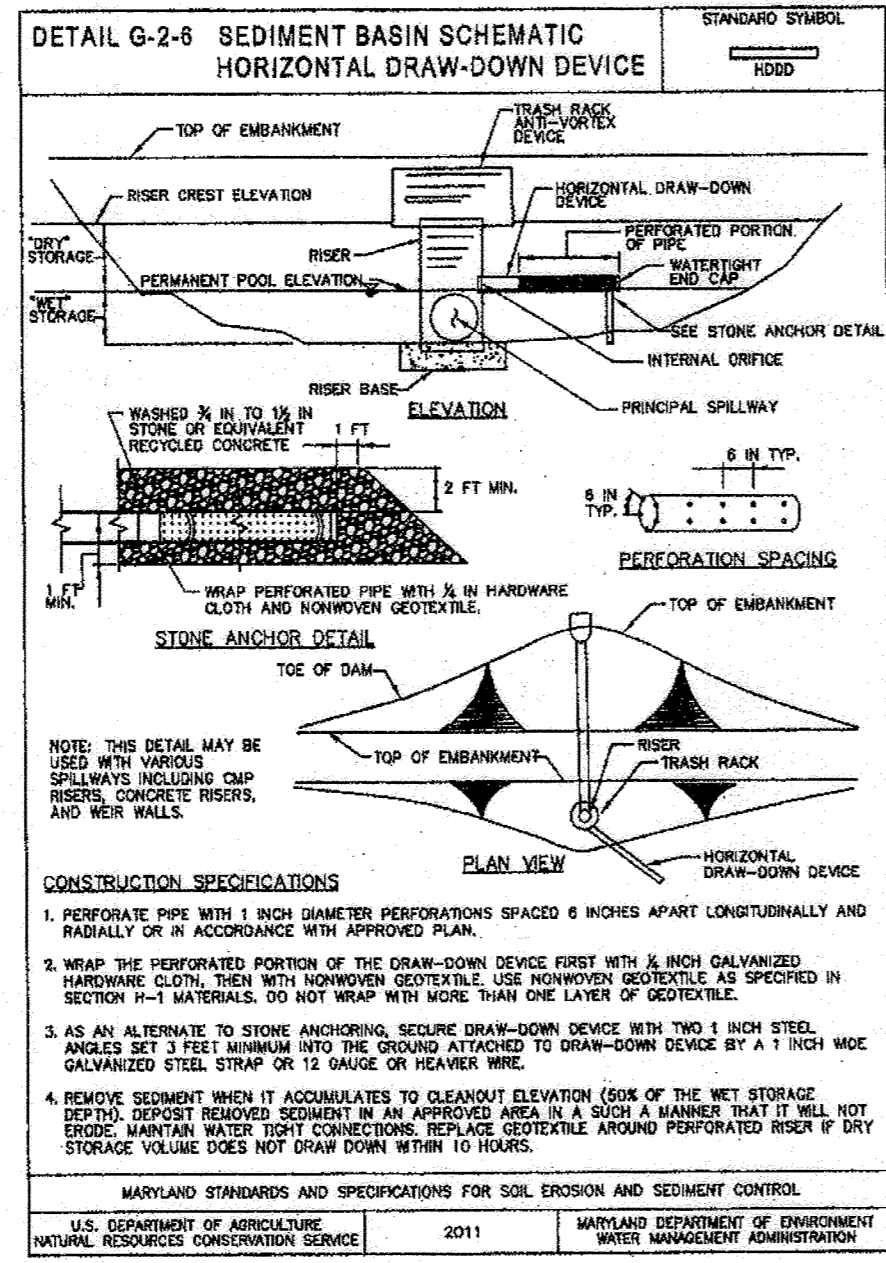
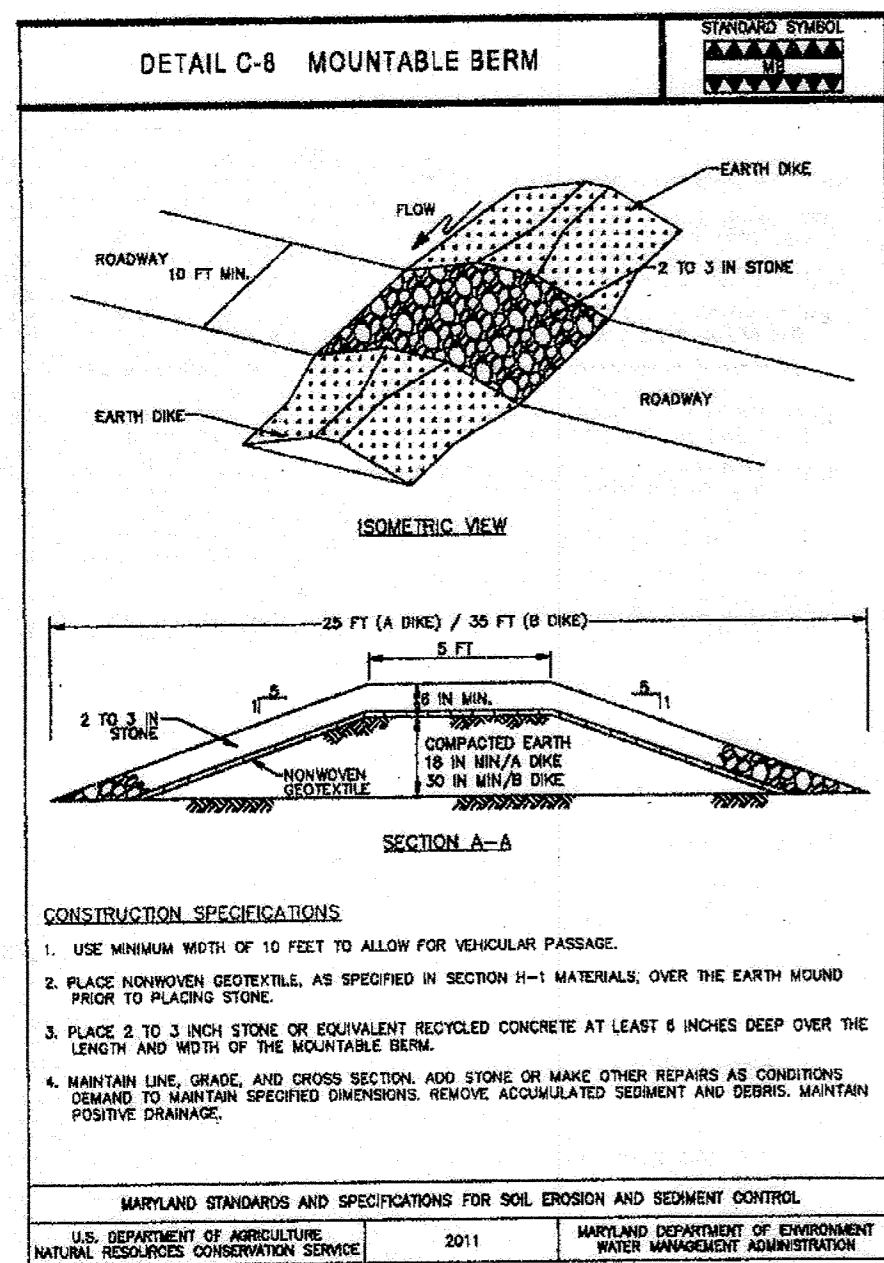
SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT. (1 DAY)
2. DEVELOPER / CONTRACTOR SHALL REQUEST A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE ENFORCEMENT AUTHORITY PRIOR TO BEGINNING CONSTRUCTION. (1 DAY)
3. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1800) AT LEAST 24 HOURS BEFORE STARTING ANY WORK. (1 DAY)
4. STAKEOUT LIMITS OF DISTURBANCE. (3 DAYS)
5. INSTALL STABILIZED CONSTRUCTION ENTRANCE, AS SHOWN HEREIN. (1 DAY)
6. CLEAR AND GRUB QUOTE AREA, INCLUDING REMOVAL OF ANY STRUCTURES, FOR THE INSTALLATION OF PERMETER CONTROLS. (1 DAY)
7. INSTALL PERMETER SUPER SILT FENCE. (1 WEEK)
8. UPON COMPLETION OF ABOVE, AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, CLEAR & GRUB INTERIOR OF SITE, INCLUDING DEMOLITION ITEMS ON SHEET 2. (3 DAYS)
9. CONSTRUCT PIPE OUTLET SEDIMENT TRAP #1 AND ITS OUTFALL FROM E-1-1 TO E-1-1, BEGINNING AT THE DOWNSTREAM END OF THE PILES SYSTEM AND PROCEEDS WEST THROUGH THE STABILIZED CONSTRUCTION ENTRANCE AND APPROVED BY INSPECTOR. STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH OR AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR. (4 WEEKS)
10. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROLS SHOWN HEREIN AFTER EACH RAINFALL AND ON A DAILY BASIS (1 DAY)
11. OBTAIN GRADING PERMIT. (1 DAY)
12. DEVELOPER / CONTRACTOR SHALL REQUEST A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE ENFORCEMENT AUTHORITY PRIOR TO BEGINNING CONSTRUCTION. (1 DAY)
13. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1800) AT LEAST 24 HOURS BEFORE STARTING ANY WORK. (1 DAY)
14. STAKEOUT LIMITS OF DISTURBANCE. (3 DAYS)
15. INSTALL STABILIZED CONSTRUCTION ENTRANCE, AS SHOWN HEREIN. (1 DAY)
16. CLEAR AND GRUB QUOTE AREA, INCLUDING REMOVAL OF ANY STRUCTURES, FOR THE INSTALLATION OF PERMETER CONTROLS. (1 DAY)
17. INSTALL PERMETER SUPER SILT FENCE. (1 WEEK)
18. UPON COMPLETION OF ABOVE, AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, CLEAR & GRUB INTERIOR OF SITE, INCLUDING DEMOLITION ITEMS ON SHEET 2. (3 DAYS)
19. CONSTRUCT PIPE OUTLET SEDIMENT TRAP #1 AND ITS OUTFALL FROM E-1-1 TO E-1-1, BEGINNING AT THE DOWNSTREAM END OF THE PILES SYSTEM AND PROCEEDS WEST THROUGH THE STABILIZED CONSTRUCTION ENTRANCE AND APPROVED BY INSPECTOR. STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH OR AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR. (4 WEEKS)
20. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROLS SHOWN HEREIN AFTER EACH RAINFALL AND ON A DAILY BASIS (1 DAY)
21. OBTAIN GRADING PERMIT. (1 DAY)
22. DEVELOPER / CONTRACTOR SHALL REQUEST A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE ENFORCEMENT AUTHORITY PRIOR TO BEGINNING CONSTRUCTION. (1 DAY)
23. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1800) AT LEAST 24 HOURS BEFORE STARTING ANY WORK. (1 DAY)
24. STAKEOUT LIMITS OF DISTURBANCE. (3 DAYS)
25. INSTALL STABILIZED CONSTRUCTION ENTRANCE, AS SHOWN HEREIN. (1 DAY)
26. CLEAR AND GRUB QUOTE AREA, INCLUDING REMOVAL OF ANY STRUCTURES, FOR THE INSTALLATION OF PERMETER CONTROLS. (1 DAY)
27. INSTALL PERMETER SUPER SILT FENCE. (1 WEEK)
28. UPON COMPLETION OF ABOVE, AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, CLEAR & GRUB INTERIOR OF SITE, INCLUDING DEMOLITION ITEMS ON SHEET 2. (3 DAYS)
29. CONSTRUCT PIPE OUTLET SEDIMENT TRAP #1 AND ITS OUTFALL FROM E-1-1 TO E-1-1, BEGINNING AT THE DOWNSTREAM END OF THE PILES SYSTEM AND PROCEEDS WEST THROUGH THE STABILIZED CONSTRUCTION ENTRANCE AND APPROVED BY INSPECTOR. STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH OR AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR. (4 WEEKS)
30. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROLS SHOWN HEREIN AFTER EACH RAINFALL AND ON A DAILY BASIS (1 DAY)

NO AS-BUILT INFORMATION ON THIS SHEET. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Chief Development Engineering Division, Date: 3/30/2022. Director, Date: 3/30/2022.

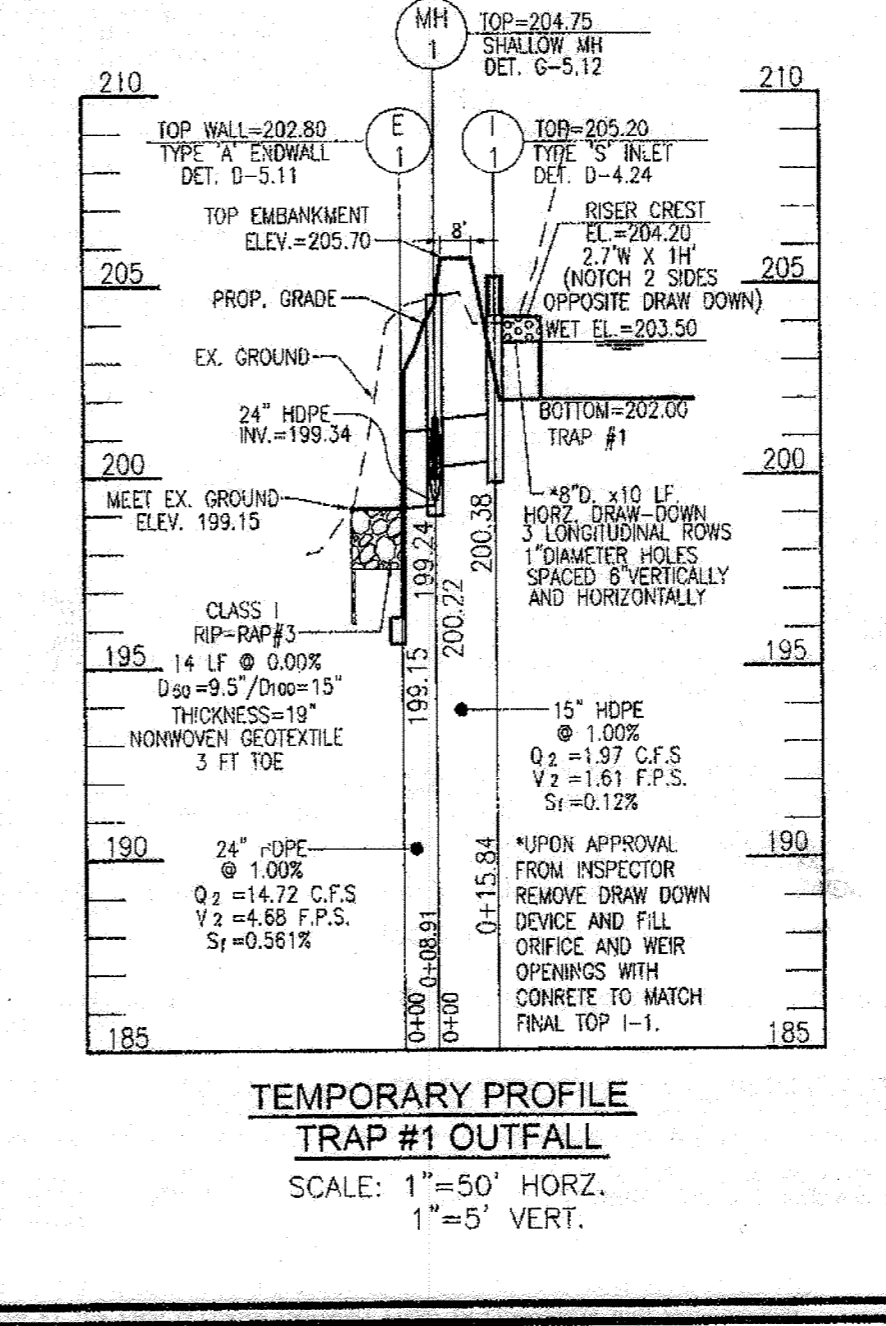
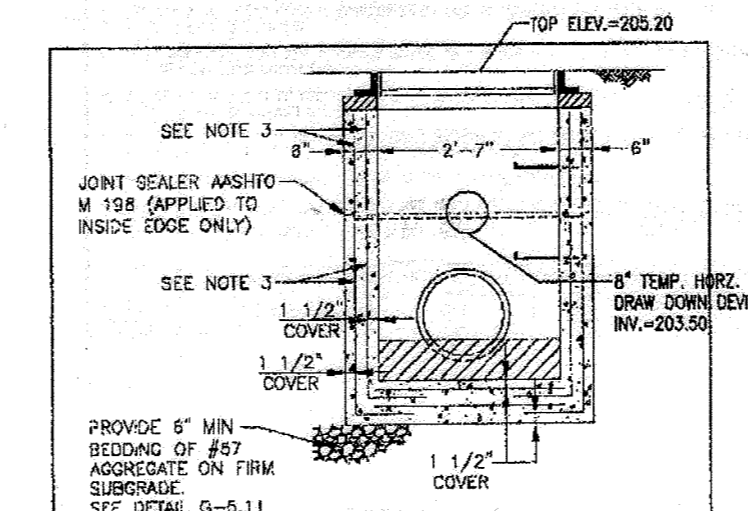
AS-BUILT CERTIFICATION FOR PSWM

AS-BUILT CERTIFICATION FOR PSWM. I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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. OWNER/DEVELOPER: C/O MICHAEL LEVITAS, 8040 WASHINGTON BLVD, JESSUP, MD 20794. DATE: 5-6-24. PROJECT: TPC RACING, 7869 DORSEY RUN ROAD, JESSUP, MD 20794. SITE DEVELOPMENT PLAN: GRADING EROSION AND SEDIMENT CONTROL NOTES & DETAILS. TIMMONS GROUP, 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043. PHONE: 410.461.7666, 410.461.8961. www.timmons.com. DESIGN BY: CAH/OB. DRAWN BY: CAH/OB. CHECKED BY: RHY. DATE: SEPTEMBER 2021. SCALE: AS SHOWN. W.O. NO.: 04-76/43575. 11 SHEET OF 22.



BAFFLE BOARD DESIGN		
TRAP #1		
A=surface area at wet storage elevation	1491	ft ²
Effective width, We = (A/2) ^{0.5}	27.30	ft
Flow length from inflow point to outlet	L1=20 / L2=48	ft
We x 2 =	54.61	ft
Effective flow lengths with baffle boards	L1=60 / L2=57	ft

*SEE PLAN FOR FLOW PATHS AND LENGTHS



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Designed by: *Charles Edmondson* 3/30/2022
 ENGINEERING DIVISION DATE
 CHIEF ENGINEER OF LAND DEVELOPMENT DATE 3/30/2022
 Director DATE 3/30/2022

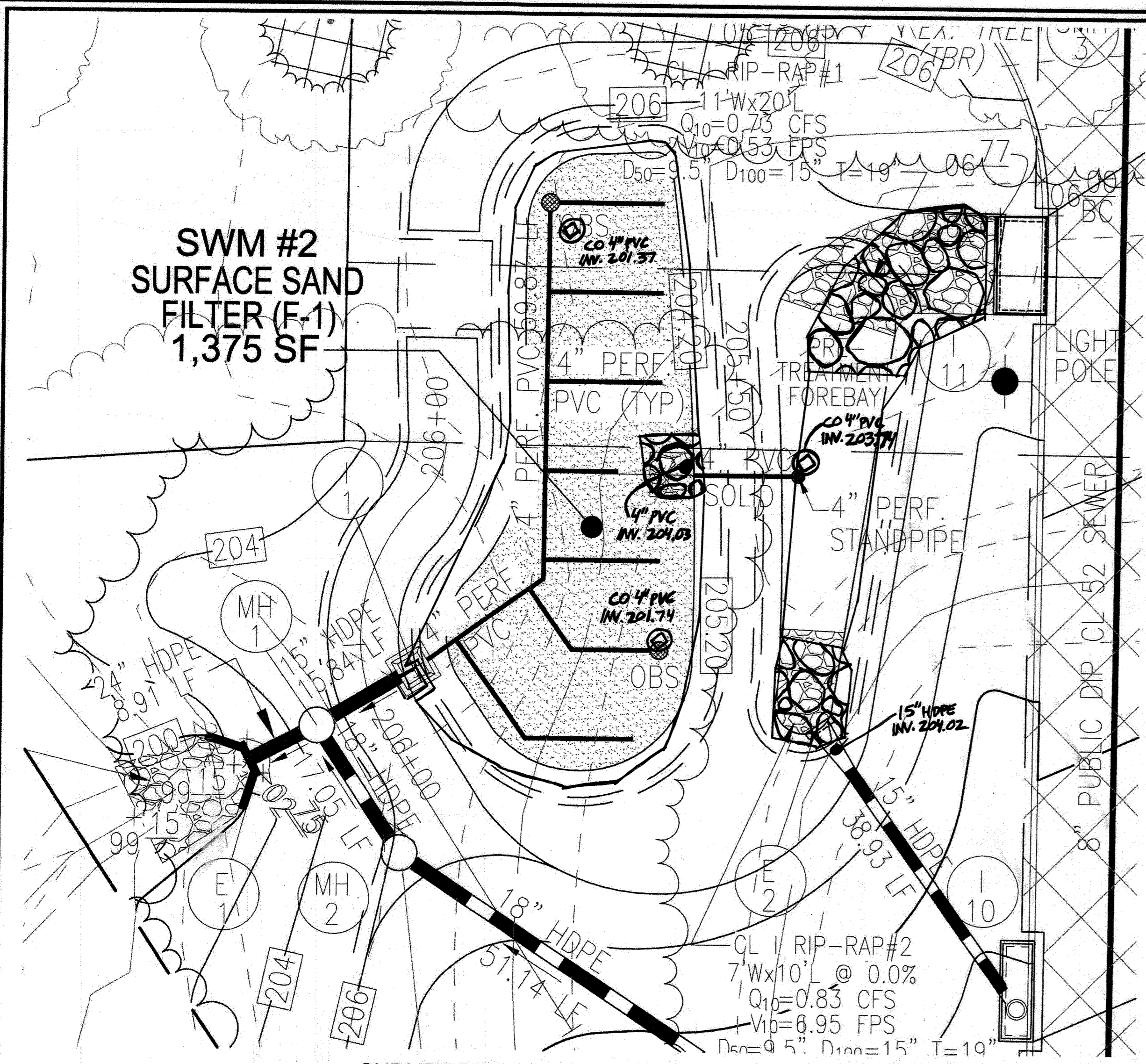
OWNER/DEVELOPER CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A duly licensed PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. EXPIRATION DATE: 09-27-2022

OWNER/DEVELOPER SIGNATURE: *Michael Levitas, Partner* DATE: 3/29/2022

DESIGN CERTIFICATION:
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT AND APPLICABLE EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, AND THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Designed by: *Robert Vogel* DATE: 3/7/2022
 DESIGNER'S SIGNATURE: *Robert H. Vogel* DATE: 3/29/2022
 PRINTED NAME: ROBERT H. VOGEL
 M.D. REGISTRATION NO. 16193
 R.L.S., OR R.L.A. (Circle one)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved by: *Alexander Bratsche* DATE: 3/29/2022
 HOWARD S.C.D.



F-1 SAND FILTER
 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME 1
 CHAPTER 3 - SECTION 3.4.6 FILTERING MAINTENANCE CRITERIA

THE SEDIMENT CHAMBER OUTLET DEVICES SHALL BE CLEANED/REPAIRED WHEN DRAINAGE TIMES WITHIN THE CHAMBER EXCEED 36 HOURS. TRASH AND DEBRIS SHALL BE REMOVED AS NECESSARY.

SEDIMENT SHOULD BE CLEANED OUT OF THE SEDIMENTATION CHAMBER WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN SIX INCHES. VEGETATION WITHIN THE SEDIMENTATION CHAMBER SHOULD BE LIMITED TO A HEIGHT OF 18 INCHES.

WHEN THE FILTERING CAPACITY OF THE FILTER DIMINISHES SUBSTANTIALLY (E.G., WHEN WATER POND ON THE SURFACE OF THE FILTER BED FOR MORE THAN 72 HOURS), THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REMOVED WITH FRESH MATERIAL. THE REMOVED SEDIMENTS SHOULD BE REMOVED IN AN ACCEPTABLE MANNER (E.G., LANDFILL). SILT/SEDIMENT SHOULD BE DISPOSED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS ONE INCH.

SURFACE SAND FILTERS (F-1) THAT HAVE A GRASS COVER SHOULD BE MOWED A MINIMUM OF 3 TIMES PER GROWING SEASON TO MAINTAIN MAXIMUM GRASS HEIGHTS LESS THAN 12 INCHES.

CONSTRUCTION OF SAND FILTER AREAS SHALL CONFORM TO THE SPECIFICATIONS OUTLINED IN APPENDIX B.3.

SAND FILTER - PLANTING

SAND FILTER PLANTINGS SHALL CONSIST OF A MIXTURE:
 REED CANARY GRASS - PHALARIS ARUNDINACEA
 SWITCHGRASS - PANICUM VIRGATUM
 CRACKING BENTGRASS - AGRISTIS PALUSTRIS
 OR EQUAL COMBINATION OF COOL / WARM SEASON GRASSES TOLERANT OF FREQUENT INUNDATION

2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME 1
 CHAPTER 2 - SECTION 3.4.6 FILTERING MAINTENANCE CRITERIA

SURFACE SAND FILTERS (F-1) THAT HAVE A GRASS COVER SHOULD BE MOWED A MINIMUM OF 3 TIMES PER GROWING SEASON TO MAINTAIN MAXIMUM GRASS HEIGHTS LESS THAN 12 INCHES.

CONSTRUCTION OF SAND FILTER AREAS SHALL CONFORM TO THE SPECIFICATIONS OUTLINED IN APPENDIX B.3.

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF THE POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA SSC STANDARDS AND SPECIFICATIONS FOR PONDS (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATORS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

Appendix B.3 Construction Specifications for Sand Filters, Biorotation and Open Channels

B.3.A Sand Filter Specifications

1. Material Specifications for Sand Filters

The allowable materials for sand filter construction are detailed in Table B.3.1.

2. Sand Filter Testing Specifications

Underground sand filters, facilities within sensitive groundwater aquifers, and filters designed to serve urban hot spots are to be tested for water tightness prior to placement of filter media. Entrances and outlets should be plugged and the system completely filled with water to demonstrate water tightness. Water tightness means no leakage for a period of 8 hours.

All overflow weirs, multiple orifices and flow distribution slots are to be field-tested to verify adequate distribution of flows.

3. Sand Filter Construction Specifications

Provide sufficient maintenance access (i.e., 12-foot-wide road with legally recorded easement). Vegetated access slopes are to be a maximum of 10%; gravel slopes to 15%; paved slopes to 25%.

Absolutely no runoff is to enter the filter until all contributing drainage areas have been stabilized.

Surface of filter bed is to be level.

All underground sand filters should be clearly delineated with signs so that they may be located when maintenance is due.

Surface sand filters may be planted with appropriate grasses; see Appendix A.

Table B.3.1 Material Specifications for Sand Filters

Material	Specification	Notes
sand	clean AASHTO-M-6 or ASTM-C-33 concrete sand	0.075" to 0.84"
peat	ash content: < 15% pH range: 5.2 to 4.9 fines: bulk density 0.12 to 0.15 g/cc	n/a
leaf compost		n/a
underdrain gravel	AASHTO-M-43	0.375" to 0.75"
geotextile fabric (if required)	ASTM-D-4833 (puncture strength - 125 lb.) ASTM-D-4632 (Tensile strength - 300 lb.)	0.060" thick equivalent opening size of #80 sieve
impermeable liner (if required)	ASTM-D-4833 (thickness) ASTM-D-4142 (tensile strength 1,100 lb., elongation 200%) ASTM-D-624 (Tear resistance - 150 lb./in.) ASTM-D-471 (water adsorption: +8 to -2% mass)	30 mil thickness Liner to be ultraviolet resistant. A geotextile fabric should be used to protect the liner from puncture.
underdrain piping	F 758, Type PS 28 or AASHTO-M-278	4" - 6" rigid schedule 40 PVC or SD335
concrete (cast-in-place)	MSHA Standards and Specs. Section 908, Mix No. 3, F _c = 3500 psi, normal weight, air-entrained	n/a
concrete (pre-cast)	per pre-cast manufacturer	n/a
non-rebar steel	ASTM A-36	n/a

OPERATION AND MAINTENANCE SCHEDULE FOR STORMWATER MANAGEMENT FACILITY

STORMWATER MANAGEMENT FACILITY ROUTINE MAINTENANCE (SF / F-1 SAND FILTER)

1. FACILITY WILL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHOULD BE PERFORMED DURING WET WEATHER TO DETERMINE IT IS FUNCTIONING PROPERLY.
2. TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOWED A MINIMUM OF TWO (2) TIMES A YEAR, ONCE IN JUNE AND ONCE IN SEPTEMBER. OTHER SIDE SLOPES AND MAINTENANCE ACCESS SHOULD BE MOWED AS NEEDED.
3. DEBRIS AND LITTER NEXT TO THE OUTLET STRUCTURE SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
4. VISIBLE SIGNS OF EROSION IN THE POND AS WELL AS RIPRAP OUTLET AREAS SHALL BE REPAIRED AS SOON AS IT IS NOTICED.

NON-ROUTINE MAINTENANCE (HOWARD COUNTY)

1. STRUCTURAL COMPONENTS OF THE POND SUCH AS THE DAM, LOW RISE STRUCTURE, SAND FILTER & PIPES SHALL BE REPAIRED UPON DETECTION OF ANY DAMAGE. THE COMPONENTS SHOULD BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS.
2. SEDIMENT SHOULD BE REMOVED WHEN ITS ACCUMULATION SIGNIFICANTLY REDUCES THE DESIGN STORAGE, INTERFERES WITH THE FUNCTION OF THE RISER, WHEN DEEMED NECESSARY FOR AESTHETIC REASONS, OR WHEN DEEMED NECESSARY BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

SWM #2 SURFACE SAND FILTER FACILITY - DESIGN ELEVATION CHART

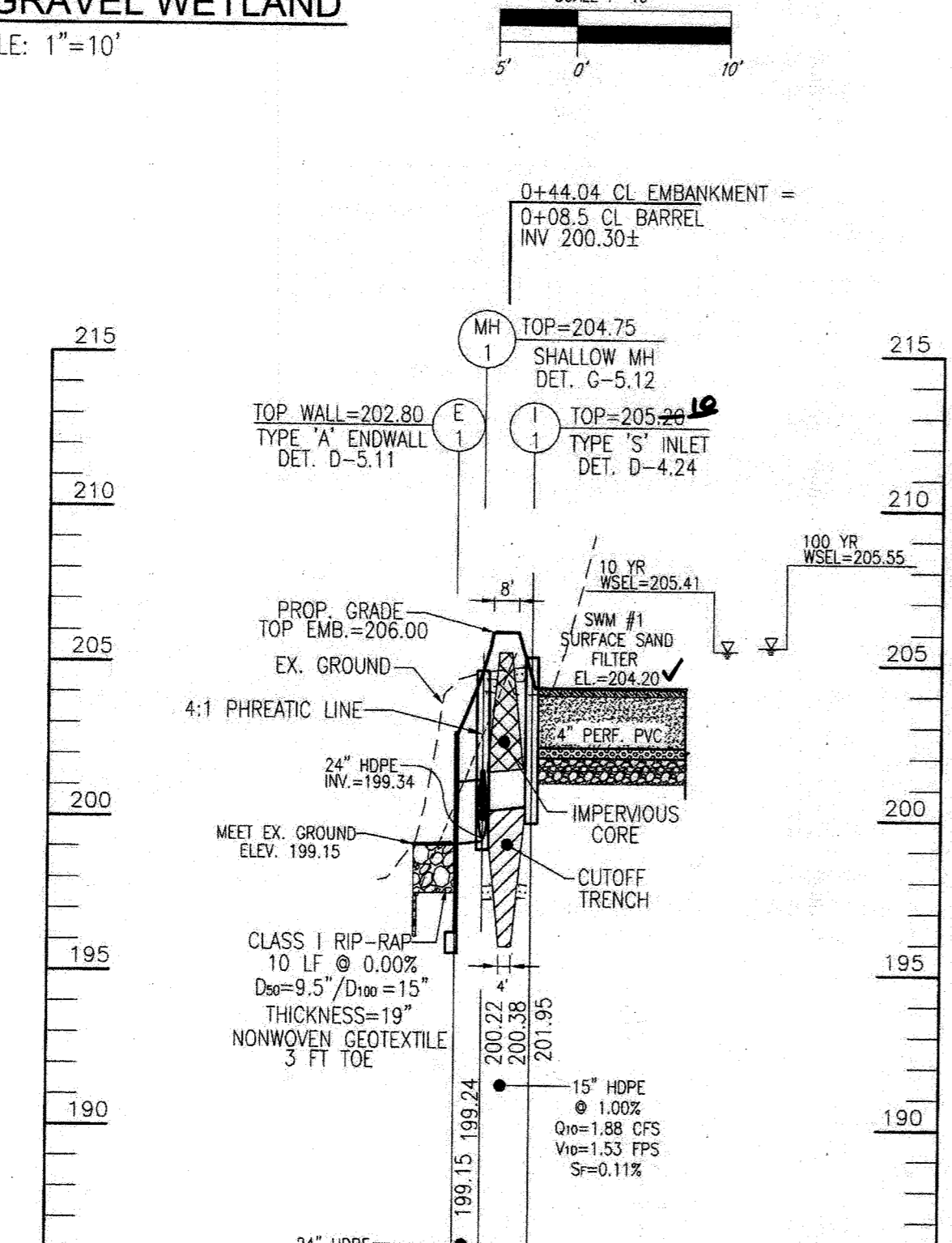
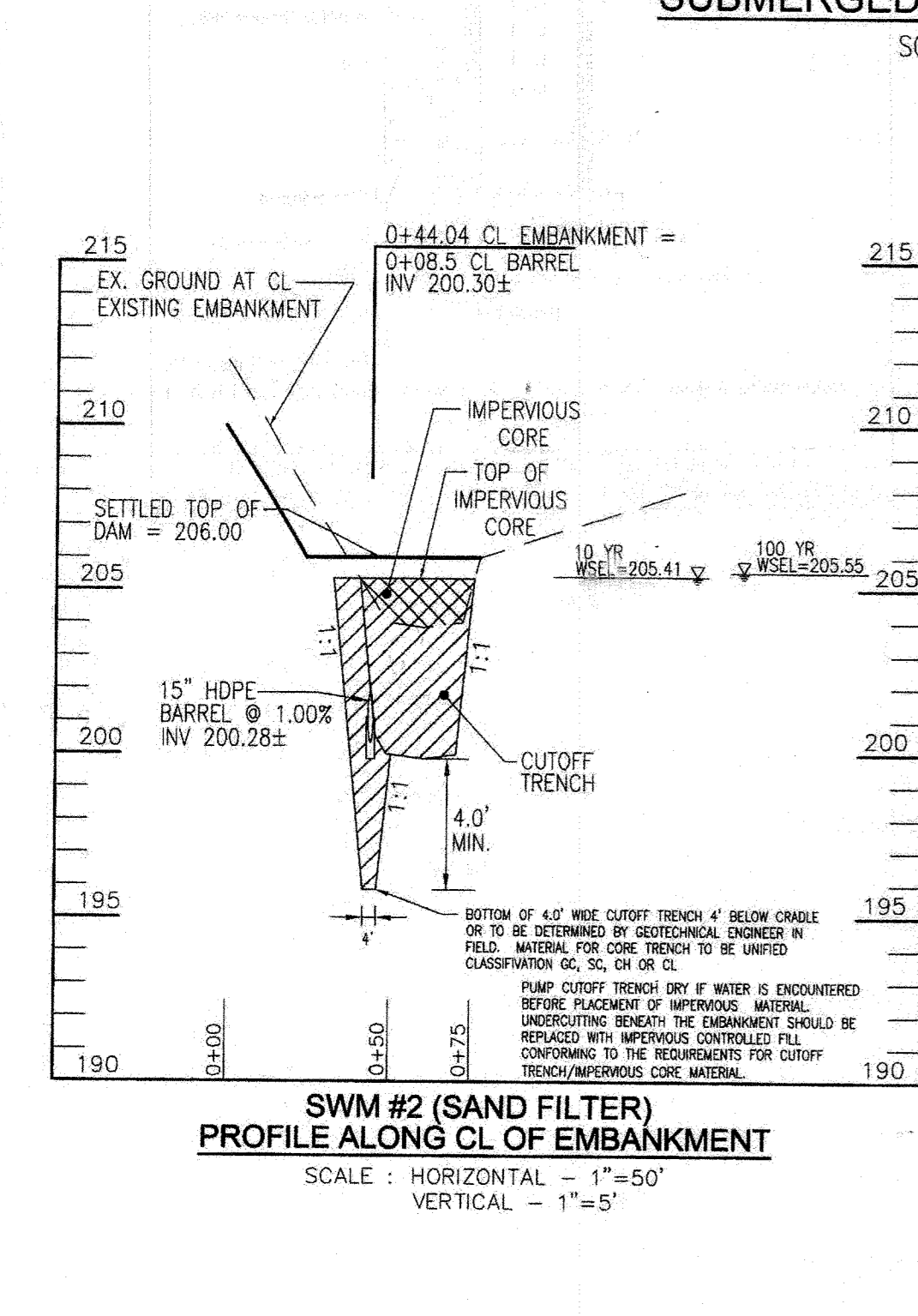
SWM FACILITY #	ESD WSEL	TOPSOIL ELEV.	TOP SAND	BOTTOM SAND	BOTTOM STONE	INVERT UNDERDRAIN	BOTTOM RECHARGE	SURFACE AREA SF	APPROX DIM
2	A	B	C	D	E	F	G	1375	21'x69'
	205.20	204.20	203.95	202.45	201.95	201.95	201.28		

SWM #4 INFILTRATION TRENCH - DESIGN ELEVATION CHART

SWM FACILITY #	TOP PAVING ELEV. (APPROX.)	TOP PEA GRAVEL	BOTTOM PEA GRAVEL	BOTTOMESDV CLEAN STONE	RECHARGE ADDITIONAL STONE	BOTTOM 6" SAND FILTER	SURFACE AREA SF	APPROX DIM
4	A	B	C	D	E	F	2400	8'X300'
	220.45	216.50	215.50	210.00	209.33	208.83		

SWM #5 INFILTRATION TRENCH - DESIGN ELEVATION CHART

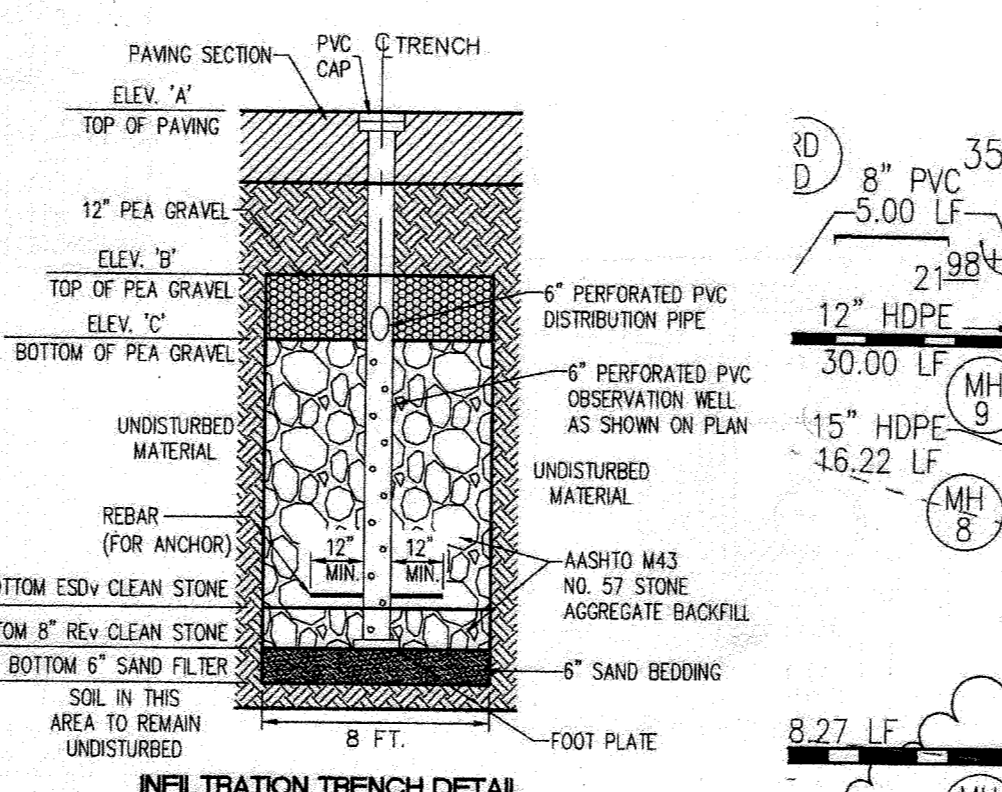
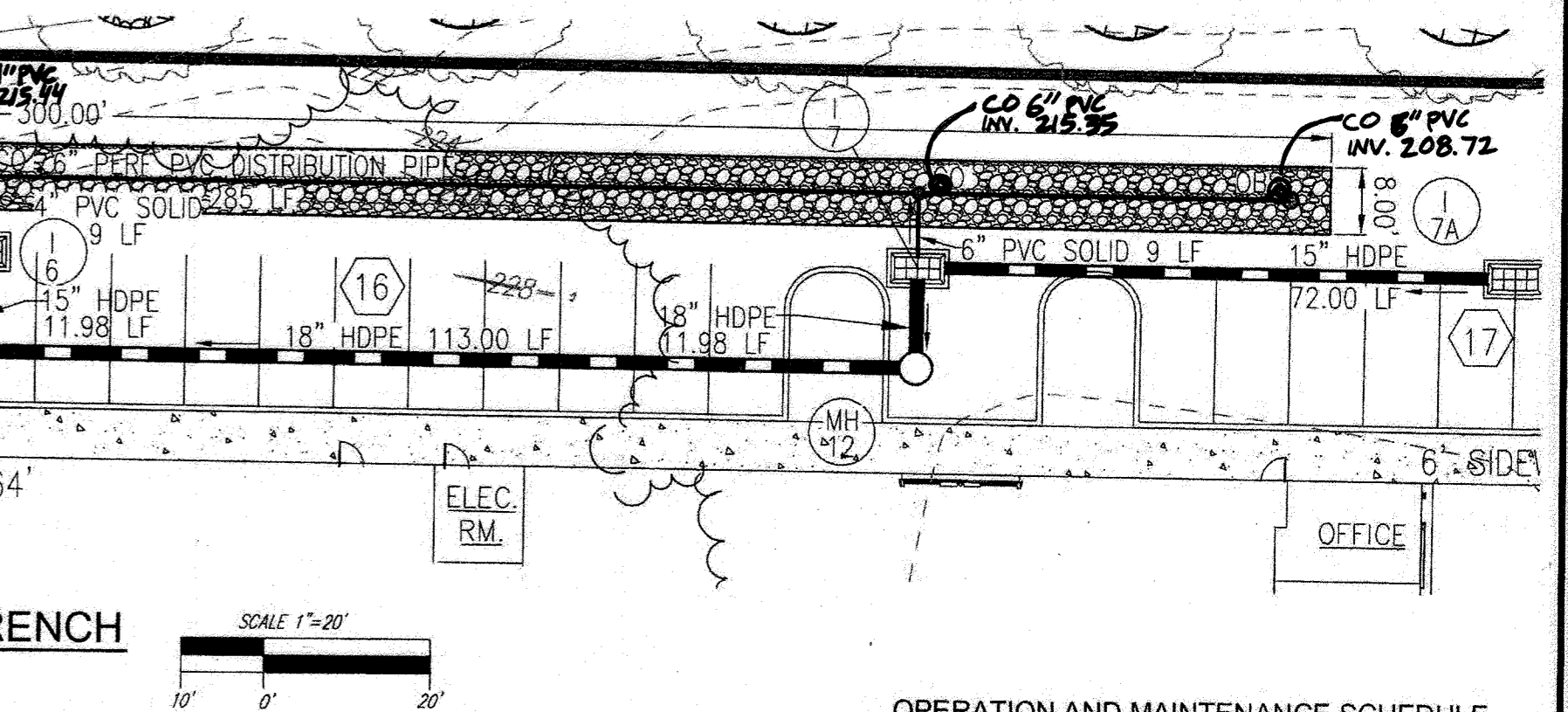
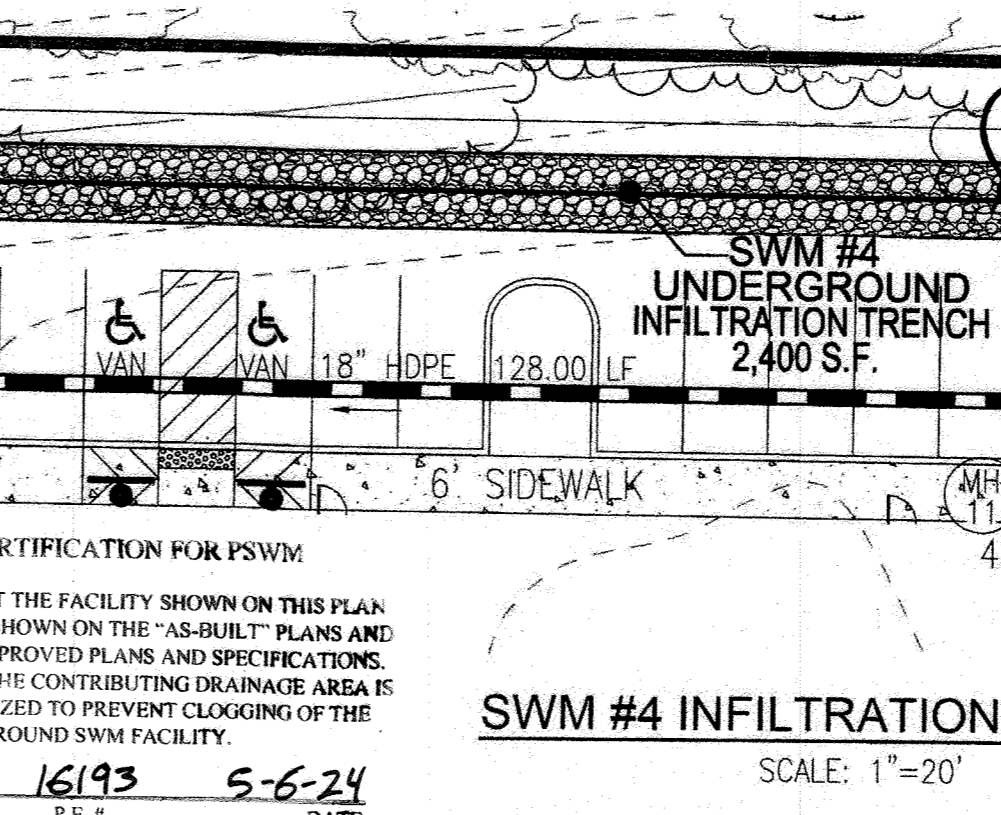
SWM FACILITY #	TOP PAVING ELEV. (APPROX.)	TOP PEA GRAVEL	BOTTOM PEA GRAVEL	BOTTOMESDV CLEAN STONE	RECHARGE ADDITIONAL STONE	BOTTOM 6" SAND FILTER	SURFACE AREA SF	APPROX DIM
4	A	B	C	D	E	F	2750	25'X110'
	221.14	216.00	215.00	209.50	208.83	208.33		



APPENDIX B.2 CONSTRUCTION SPECIFICATIONS FOR INFILTRATION PRACTICES

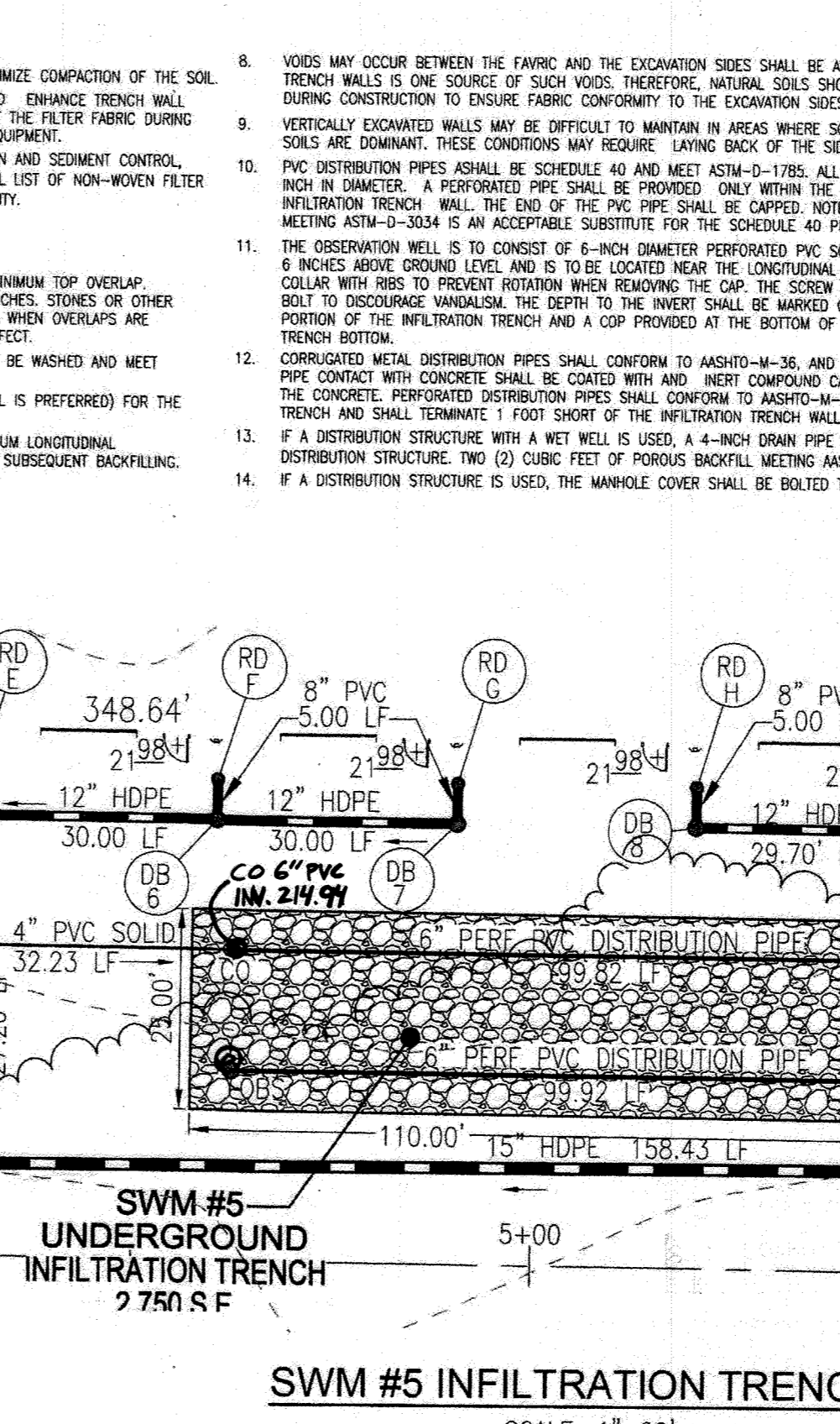
B.2.A INFILTRATION TRENCH GENERAL NOTES AND SPECIFICATIONS

1. AN INFILTRATION TRENCH MAY NOT RECEIVE RUN-OFF UNTIL THE CONTRIBUTING DRAINAGE AREA TO THE INFILTRATION TRENCH IS STABILIZED.
2. HEAVY EQUIPMENT AND TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE PROPOSED LOCATION OF THE INFILTRATION TRENCH TO MINIMIZE COMPACTION OF THE SOIL.
3. EXCAVATE THE INFILTRATION TRENCH TO THE DESIGN DIMENSIONS. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE TRENCH SIDES TO ENHANCE TRENCH WALL STABILITY. LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE TRENCH SIDES IN ORDER TO PREVENT FABRIC PUNCTURING OR TEARING OF THE FILTER FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES. THE SIDE WALLS OF THE TRENCH SHALL BE ROUGHENED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT.
4. A CLASS "C" GEOTEXTILE OR BETTER (SEE SECTION 240 - MATERIAL SPECIFICATIONS, 1994 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, VOLS. 1994) SHALL INTERLOCK BETWEEN TRENCH WALLS AND BETWEEN THE STONE RESERVOIR AND GRAVEL FILTER LAYERS. A FINAL LIST OF NON-WOVEN FILTER FABRICS THAT MEET THE CLASS "C" CRITERIA FOLLOWS. ANY ALTERNATIVE FILTER FABRIC MUST BE APPROVED BY THE PLAN APPROVAL AUTHORITY.
 AMCO 4552 CARTRIDGE FX-805
 GEOTON 470 MIRR 160-H
 WETBEC 707
5. THE WIDTH OF THE GEOTEXTILE MUST INCLUDE SUFFICIENT MATERIAL TO CONFORM TO TRENCH PERIMETER IRREGULARITIES AND FOR A 6-INCH MINIMUM TOP OVERLAP. THE FILTER FABRIC SHALL BE TUCKED UNDER THE SAND LAYER ON THE BOTTOM OF THE INFILTRATION TRENCH FOR A DISTANCE OF 2 TO 12 INCHES. STONES OR OTHER ANCHORING OBJECTS SHALL BE PLACED ON THE FABRIC AT THE EDGE OF THE TRENCH TO KEEP THE TRENCH OPEN DURING WINDY PERIODS. WHEN OVERLAPS ARE REQUIRED BETWEEN ROLLS THE UPWIND ROLL SHOULD LAP A MINIMUM OF 2 FEET OVER THE DOWNWIND ROLL IN ORDER TO PROVIDE A SHINGLED EFFECT.
6. IF A 6-INCH SAND FILTER LAYER IS PLACED ON THE BOTTOM OF THE INFILTRATION TRENCH THE SAND FOR THE INFILTRATION TRENCH SHALL BE WASHED AND MEET AASHTO-M-43, SIZE NO. 9 OR NO. 10. ANY ALTERNATIVE SAND GRAVIMETRY MUST BE APPROVED BY THE PLAN APPROVAL AUTHORITY.
7. THE STONE AGGREGATE SHOULD BE PLACED IN A MINIMUM LAYER LIFT THICKNESS OF 12 INCHES. THE GRAVEL (ROUNDED "BANK RUN" GRAVEL IS PREFERRED) FOR THE INFILTRATION TRENCH SHALL BE WASHED AND MEET ONE OF THE FOLLOWING AASHTO-M-43, SIZE NO. 2 OR NO. 3.
8. FOLLOWING THE STONE AGGREGATE PLACEMENT, THE FILTER FABRIC SHALL BE FOLDED OVER THE STONE AGGREGATE TO FORM A 6-INCH MINIMUM LONGITUDINAL LAP. THE BEDDED FULL SOIL OR STONE AGGREGATE SHALL BE PLACED OVER THE LAP AT SUFFICIENT INTERVALS TO MAINTAIN THE LAP DURING SUBSEQUENT BACKFILLING.
9. CARE SHALL BE EXERCISED TO PREVENT NATURAL OR FILL SOILS FROM INTERMIXING WITH THE STONE AGGREGATE. ALL CONTAMINATED STONE AGGREGATE SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED STONE AGGREGATE.



NOTES:

1. USE MIRAFI 700X FILTER FABRIC OR EQUIVALENT ON SIDES.
2. THE DIVERSION PIPE TO THE INFILTRATION TRENCH SHALL BE BLOCKED UNTIL ALL UPSTREAM DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
3. SEE INFILTRATION TRENCH DESIGN ELEVATION CHART FOR DIMENSIONS AND ELEVATIONS.
4. SEE PLAN FOR LOCATIONS OF CLEANOUTS AND OBSERVATION WELLS.
5. SEE DETAILS FOR OBSERVATION WELLS AND CAPS, SHEET 15.



OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER INFILTRATION TRENCHES

1. THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM EVENT.
2. WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
3. A LOGBOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
4. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN THE SIX HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
5. THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
6. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

OWNER/DEVELOPER

MLW, LLC
 C/O MICHAEL LEVITAS
 8040 WASHINGTON BLVD.
 JESSUP, MD 20794
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 TPCRACING@GMAIL.COM

SITE DEVELOPMENT PLAN
STORMWATER MANAGEMENT PLAN,
NOTES AND DETAILS
TPC RACING
 7869 DORSEY RUN ROAD
 JESSUP, MD 20794
 L. 16140 / F. 00371

TAX MAP 43 GRID 22
 1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: GAH/OB
 DRAWN BY: GAH/OB
 CHECKED BY: RHY
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 W.O. NO.: 04-76/43576

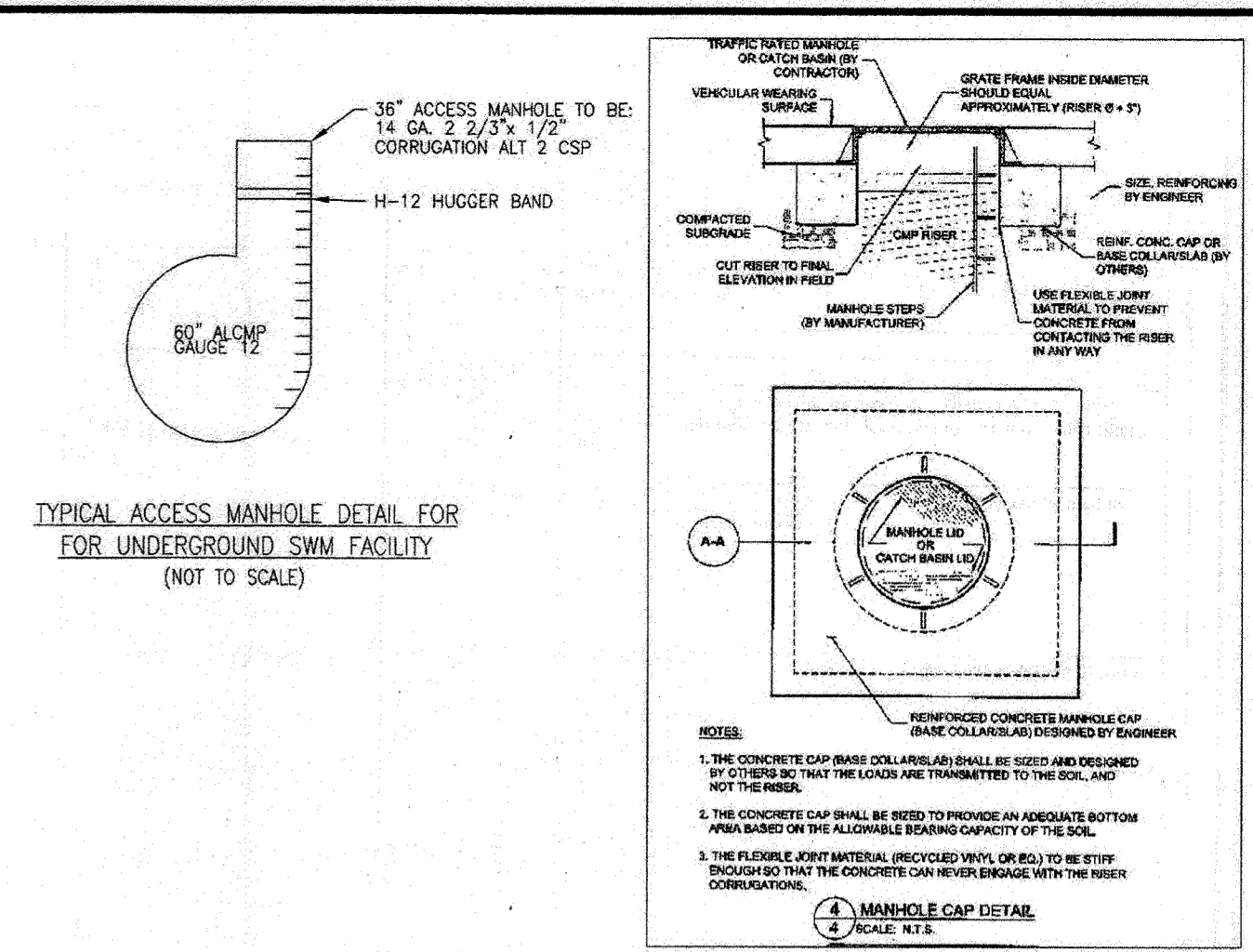
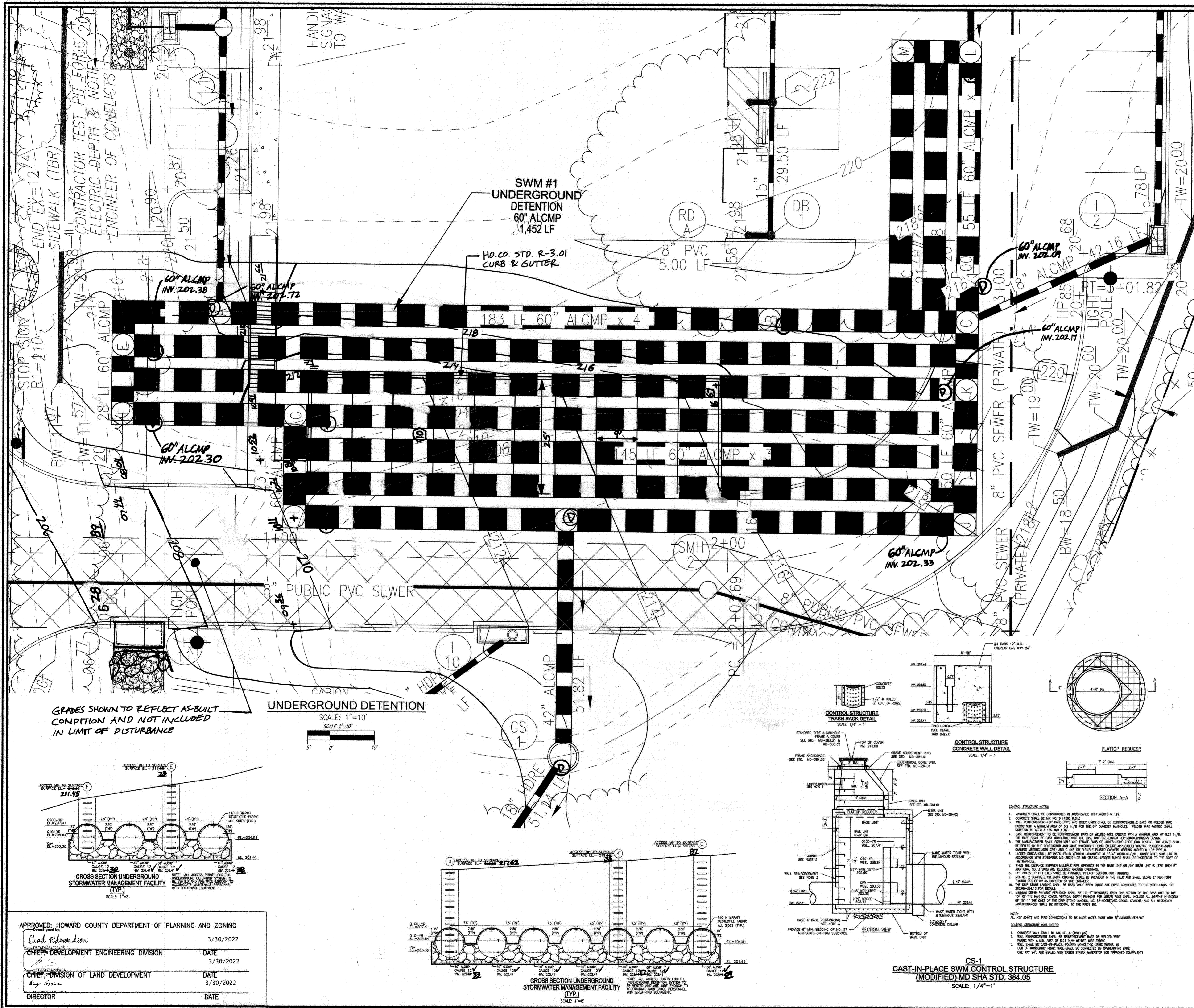
PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. EXPIRATION DATE: 09-30-2022

13 SHEET OF 22

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief of Development Engineering Division
 Chad Edmondson
 3/30/2022

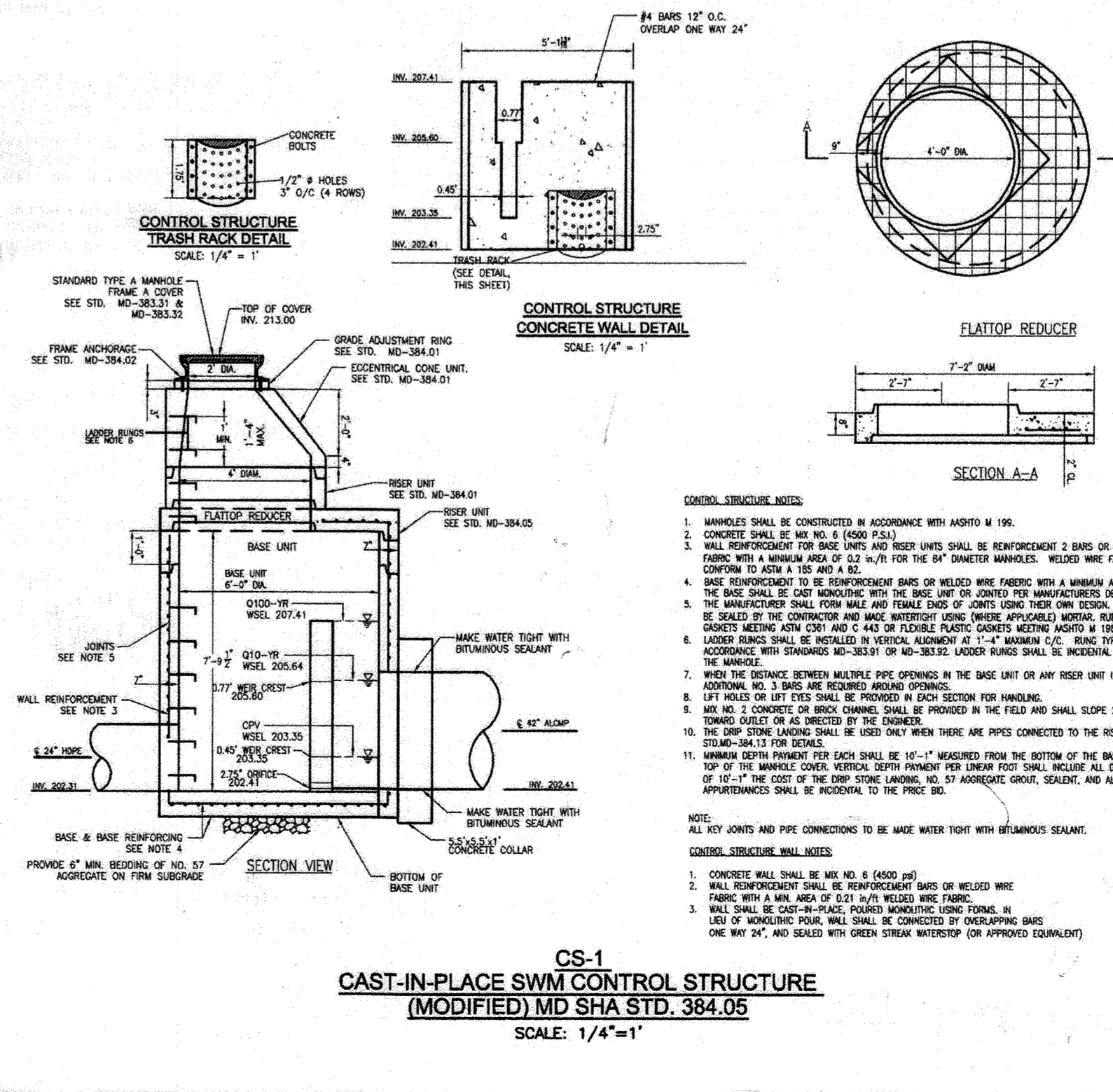
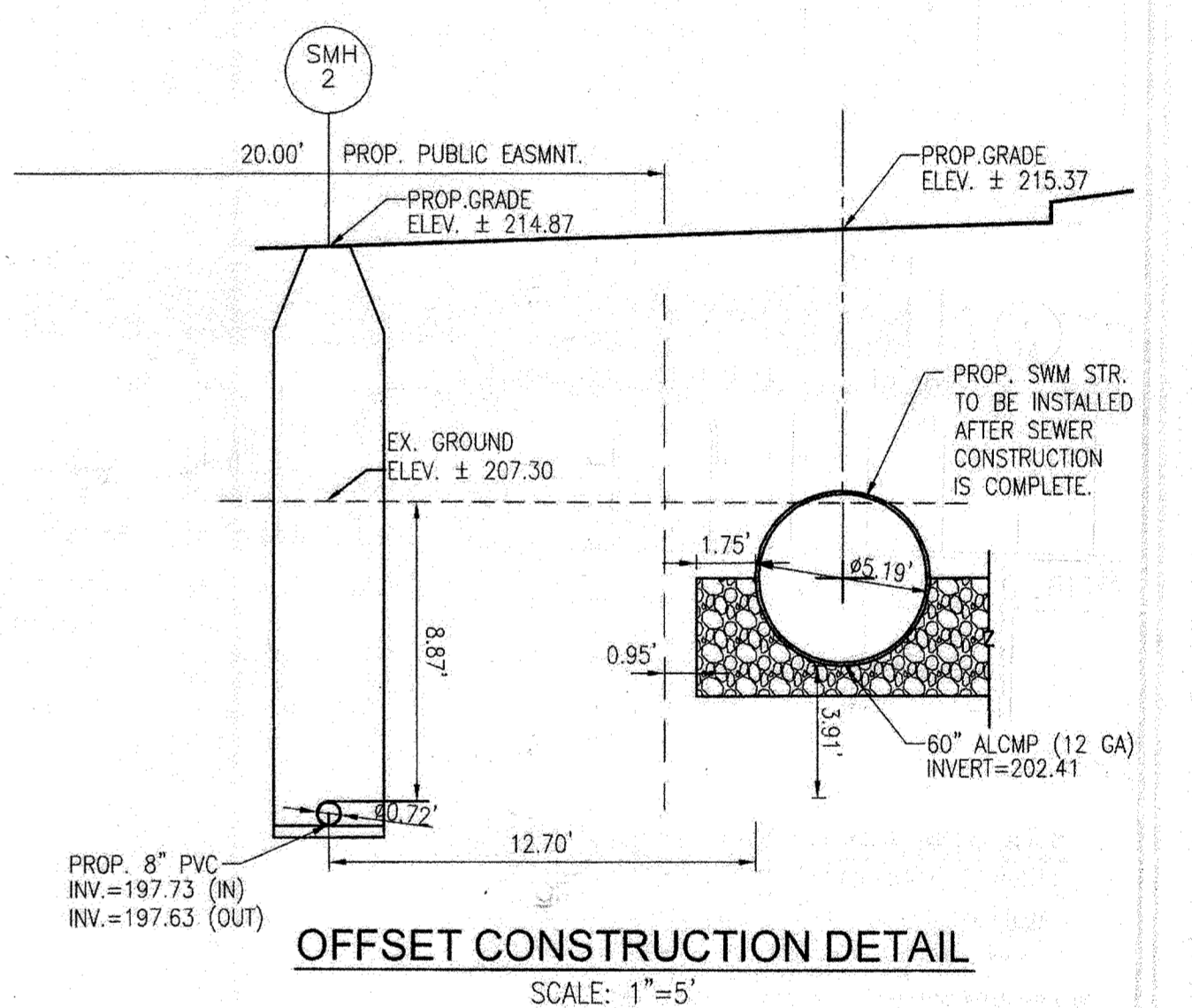
Chief of Division of Land Development
 Amy Grana
 3/30/2022



AS-BUILT CERTIFICATION FOR PSWM

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

DATE: 5-6-24
P.E. # 16193
P.E. NAME: Robert H. Vogel



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief Development Engineering Division DATE: 3/30/2022

Chief Division of Land Development DATE: 3/30/2022

DIRECTOR DATE:

OWNER/DEVELOPER
MLW, LLC
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 799-7223
TPCRACING@GMAIL.COM

5 REVISE PARKING, SIDEWALK AND PARKING TABULATION 5-15-24
NO. REVISION DATE

SITE DEVELOPMENT PLAN
STORMWATER MANAGEMENT PLAN,
NOTES AND DETAILS
TPC RACING
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371

ZONED: M-2
PARCEL: 08-2
HOWARD COUNTY, MARYLAND

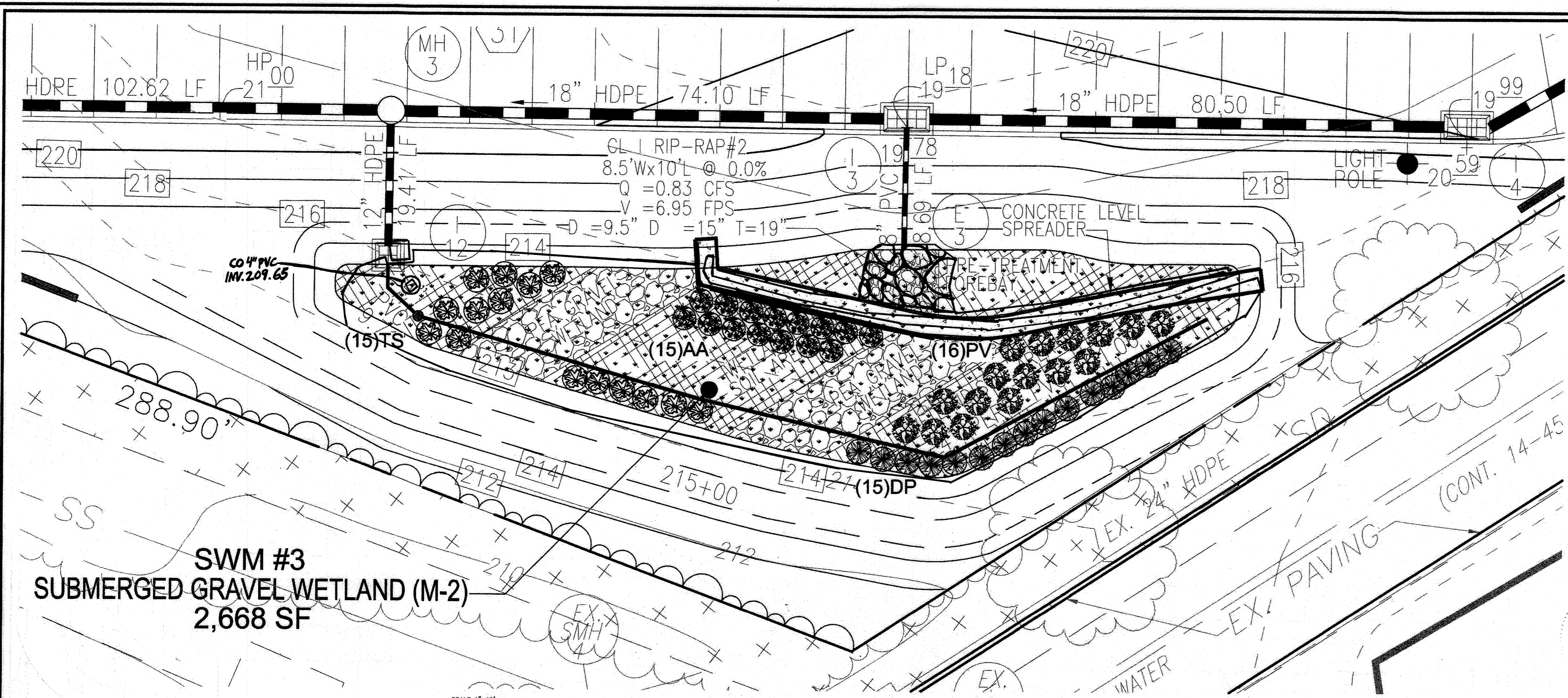
VOGEL ENGINEERING
TIMMONS GROUP
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PROFESSIONAL CERTIFICATE
DRAWN BY: GAH/OB
DESIGN BY: GAH/OB
CHECKED BY: RHV
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-76/43578

STATE OF MARYLAND
ROBERT H. VOGEL, PE NO. 16193
PROFESSIONAL ENGINEER

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 (PE NO. 16193) ON DATE 05-07-2022.

14 SHEET OF 22



**SWM #3
SUBMERGED GRAVEL WETLAND (M-2)
2,668 SF**

**STORMWATER MANAGEMENT FACILITY #3
SUBMERGED GRAVEL WETLAND (M-2)**
SCALE: 1"=10'

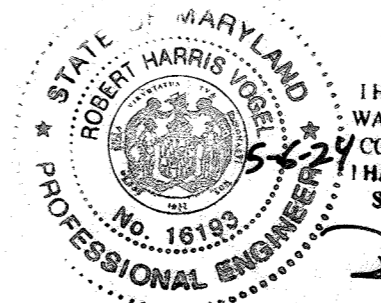
- NOTES**
- 4" SUBDRAIN PIPE PERFORATE HORIZONTAL SECTIONS OF PIPE ONLY. SEE DETAIL FOR REQUIRED PERFORATED SECTION IN VERTICAL PIPE
 - RISER SOLID PIPES SHALL BE CAPPED AT ELEV 205.20
 - REFER TO MDE SWM TABLE B.4.1, FOR PIPE SPECIFICATIONS
 - WETLAND SOIL THE SURFACE INFILTRATION RATES OF THE GRAVEL WETLAND SOIL SHOULD BE SIMILAR TO A LOW HYDRAULIC CONDUCTIVITY WETLAND SOIL (0.1-0.01 FT/DAY = 3.5 X 10⁻⁵ CM/SEC TO 3.5 X 10⁻⁶ CM/SEC). THIS SOIL CAN BE MANUFACTURED USING COMPOST, SAND, AND SOME FINE SOILS TO BLEND TO A HIGH % ORGANIC MATTER CONTENT SOIL (>15% ORGANIC MATTER). AVOID USING CLAY CONTENTS IN EXCESS OF 15% BECAUSE OF POTENTIAL MIGRATION OF FINES INTO SUBSURFACE GRAVEL LAYER. DO NOT USE GEOTEXTILES BETWEEN THE HORIZONTAL LAYERS OF THIS SYSTEM AS THEY WILL CLOG DUE TO FINES AND MAY RESTRICT ROOT GROWTH. WETLAND MULCH CAN BE SUBSTITUTED FOR WETLAND SOIL
 - PLANTINGS MAY BE SUBSTITUTED WITH NATIVE WETLAND PLANT STOCK OBTAINED FROM A LOCAL AQUATIC PLANT NURSERY.

WETLAND SOIL SPECIFICATIONS

IMPERVIOUS LINER:
IF NATIVE A LOW HYDRAULIC CONDUCTIVITY NATIVE SOIL IS NOT PRESENT BELOW THE GRAVEL LAYER, A LOW PERMEABILITY LINER OR SOIL SHOULD BE USED TO:
- MINIMIZE INFILTRATION
- PRESERVE HORIZONTAL FLOW IN THE GRAVEL
- MAINTAIN THE WETLAND PLANTS.
IF GEOTECHNICAL TESTS CONFIRM THE NEED FOR A LINER, ACCEPTABLE OPTIONS INCLUDE:
(A) 8 TO 12 INCHES (15 TO 30 CM) OF CLAY SOIL (MINIMUM 10% PASSING THE #200 SIEVE AND A MINIMUM PERMEABILITY OF 1 X 10⁻⁵ CM/SEC).
(B) A 30 MI. HDPE LINER.
(C) BENTONITE.
(D) USE OF CHEMICAL ADDITIVES (SEE NRCS AGRICULTURAL HANDBOOK NO. 386, DATED 1961, OR ENGINEERING FIELD MANUAL).
(E) A DESIGN PREPARED BY A PROFESSIONAL ENGINEER.

- OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED SUBMERGED GRAVEL WETLANDS (M-2)**
- During the first year of operation, the Owner shall inspect the facility after every heavy storm and replace vegetation as needed.
 - The Owner shall remove sediment accumulated in the pretreatment areas as necessary.
 - Signs of uneven flow within the wetland may mean that the gravel or underdrain is clogged. The gravel or underdrain shall be removed, cleaned, and replaced, as needed.
 - The Owner shall ensure a dense stand of wetland vegetation is maintained through the life of the facility and replace vegetation as needed.
 - The Owner shall ensure the inlets and outlets to each gravel wetland cell are free from debris.
 - The Owner shall repair erosion at inflow points and ensure flow splitters are functional to prevent storm water from bypassing the facility.

- CONTRACTOR SHALL BE FAMILIAR WITH APPENDIX B.4.C. CONSTRUCTION SPECIFICATIONS AND TABLE B.4.1 MATERIAL SPECIFICATIONS. IN ADDITION THE "2000 MARYLAND STORMWATER DESIGN MANUAL - VOLUME II - APPENDIX A OFFERS ADDITIONAL HELPFUL INFORMATION.
- NO TREES SHALL BE PLANTED WITHIN A THE GRAVEL WETLAND. USE ONLY SHRUB OR HERBACEOUS SPECIES.
- REFER TO ABOVE TABLE A.4.1 FOR ADDITIONAL PLANTING SUBSTITUTIONS. LANDSCAPE CONTRACTOR SHALL INSTALL PLANTINGS SPECIFIED OR USE APPROVED EQUAL SPECIES WHICH ARE TOLERANT TO FLUCTUATING WATER LEVELS.
- PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THIS FINAL PLAN.



AS-BUILT CERTIFICATION FOR PSWM

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

DATE: 5-6-24
P.E. # 16193

SWM #3 SUBMERGED GRAVEL WETLAND FACILITY - DESIGN ELEVATION CHART

SWM FACILITY #	RISER ELEV. A	ESD WSEL/ CLEANOUT TOP B	TOP PLANTING SOIL C	BOTTOM PLANT SOIL D	BOTTOM PEA GRAVEL E	UNDERDRAIN INV. F	INV. STONE G	OVERFLOW PIPE ELEV. H	SURFACE AREA SF	APPROX DIM
3	215.00	214.88	213.00	212.00	211.75	209.65	209.75	212.33	2668	32.5' X 30'

PLANTING SCHEDULE (SHRUB/ORNAMENTAL GRASSES)

LEGEND/KEY	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
TS	15	SCIRPUS PUNGENS COMMON THREE-SQUARE	PLANT STOCK	CONT
DP	15	SAGITTARIA LATIFOLIA ARROWHEAD/BUCK POTATO	PLANT STOCK	9-12" SPACE
AA	15	HELIANTHUS VIRGINICA ARROW ARUM	PLANT STOCK	9-12" SPACE
PV	16	PANICUM VIRGATUM SWITCHGRASS	1 GAL.	

BIORETENTION PERENNIALS/GROUND COVER PLANTING SCHEDULE

LEGEND	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
	93	BAPTISIA AUSTRALIS FALSE INDIGO	4" POT	12"-15" O.C. FOR SIDES AND BOTTOM OF BSK. MIX ALL VARIETIES IN A NATURALIZED RANDOM PATTERN THROUGHOUT PLANT IN GROUPS OF NO LESS THAN 9 PLANTS PER CLUMP
	93	ACORUS GRAMINEUS 'OGON' GOLDEN VARIEGATED SWEET FLAG	1 QT.	

GRAVEL WETLAND PLANTING REQUIREMENTS

MFR #	AREA	STEMS REQUIRED (0.0227)	STEMS PROVIDED	TS	DP	AA	PV	BA	AG	TOTAL
GW	2668	61	61	15	15	15	16	93	93	186
TOTALS	2668	61	61	15	15	15	16	93	93	186

AREAS ARE TO BE PLANTED BASED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACER (0.0227 STEMS PER SQUARE FOOT).

OWNER/DEVELOPER:
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C/O MICHAEL LEVITAS
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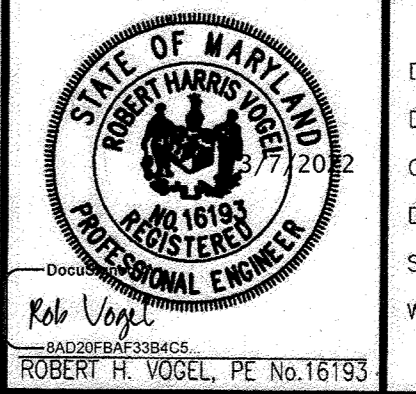
NO.	REVISION	DATE

**SITE DEVELOPMENT PLAN
STORMWATER MANAGEMENT PLAN,
NOTES AND DETAILS
TPC RACING**
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371

TAX MAP 43 GRID 22
1ST ELECTION DISTRICT

ZONED: M-2
PARCEL 108-B
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
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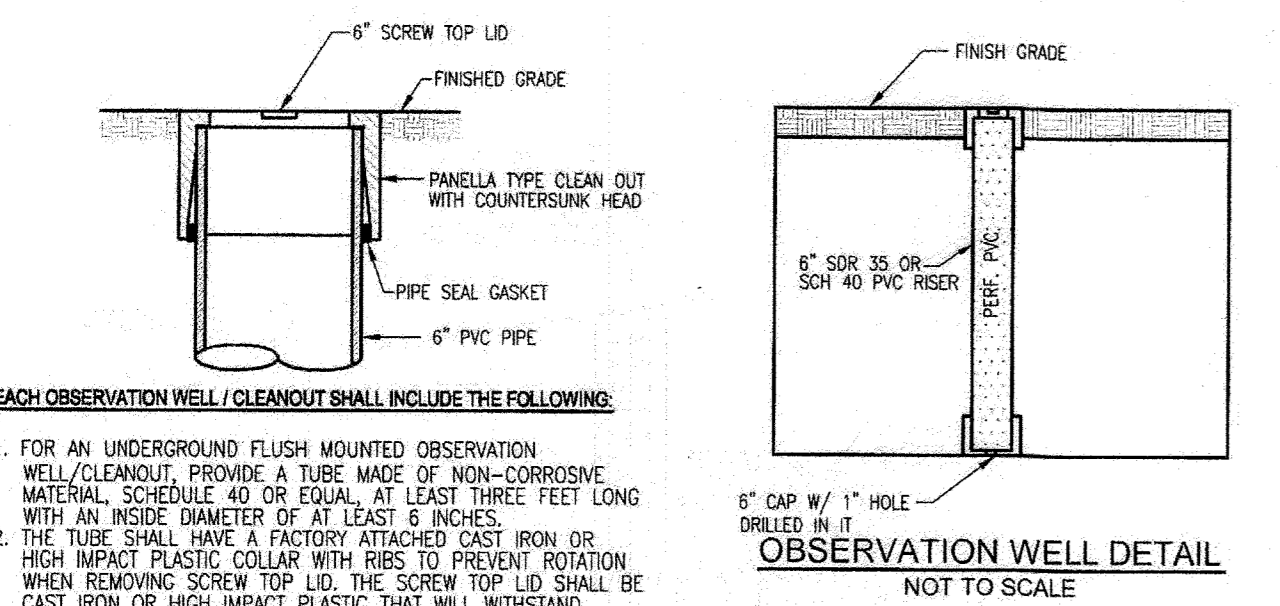
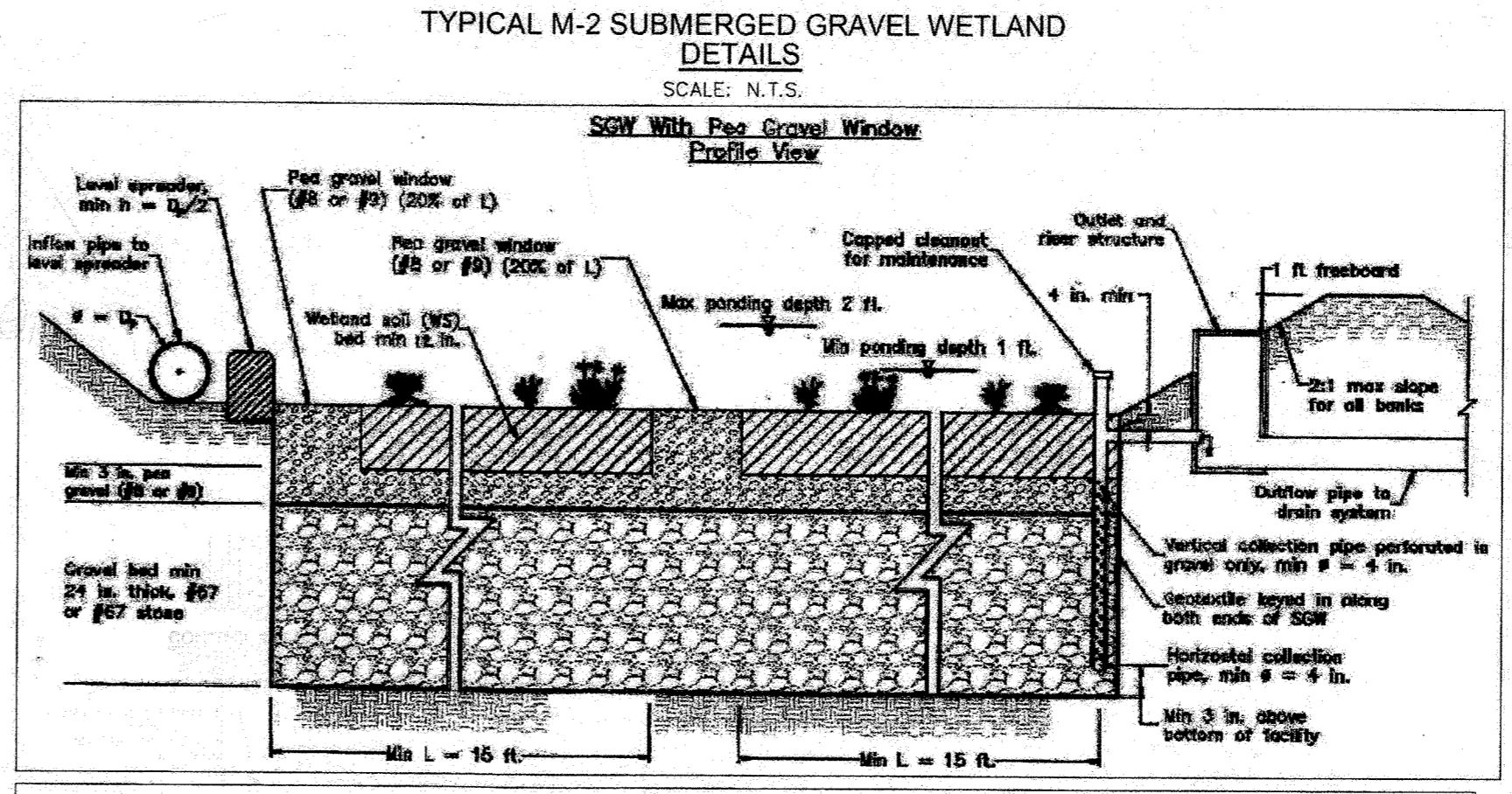
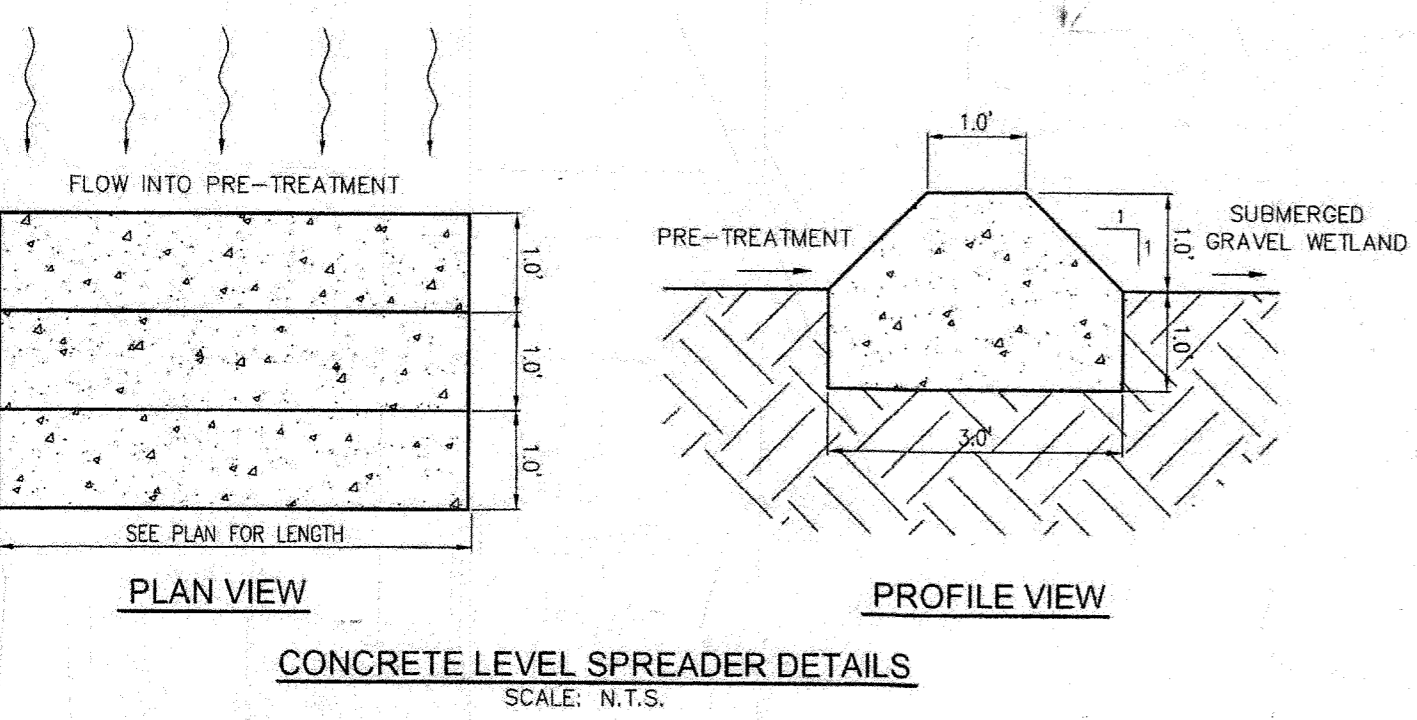


PROFESSIONAL CERTIFICATE

DESIGN BY: GAH/OB
DRAWN BY: GAH/OB
CHECKED BY: RHV
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-76/43575

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRES ON 09-21-2022.

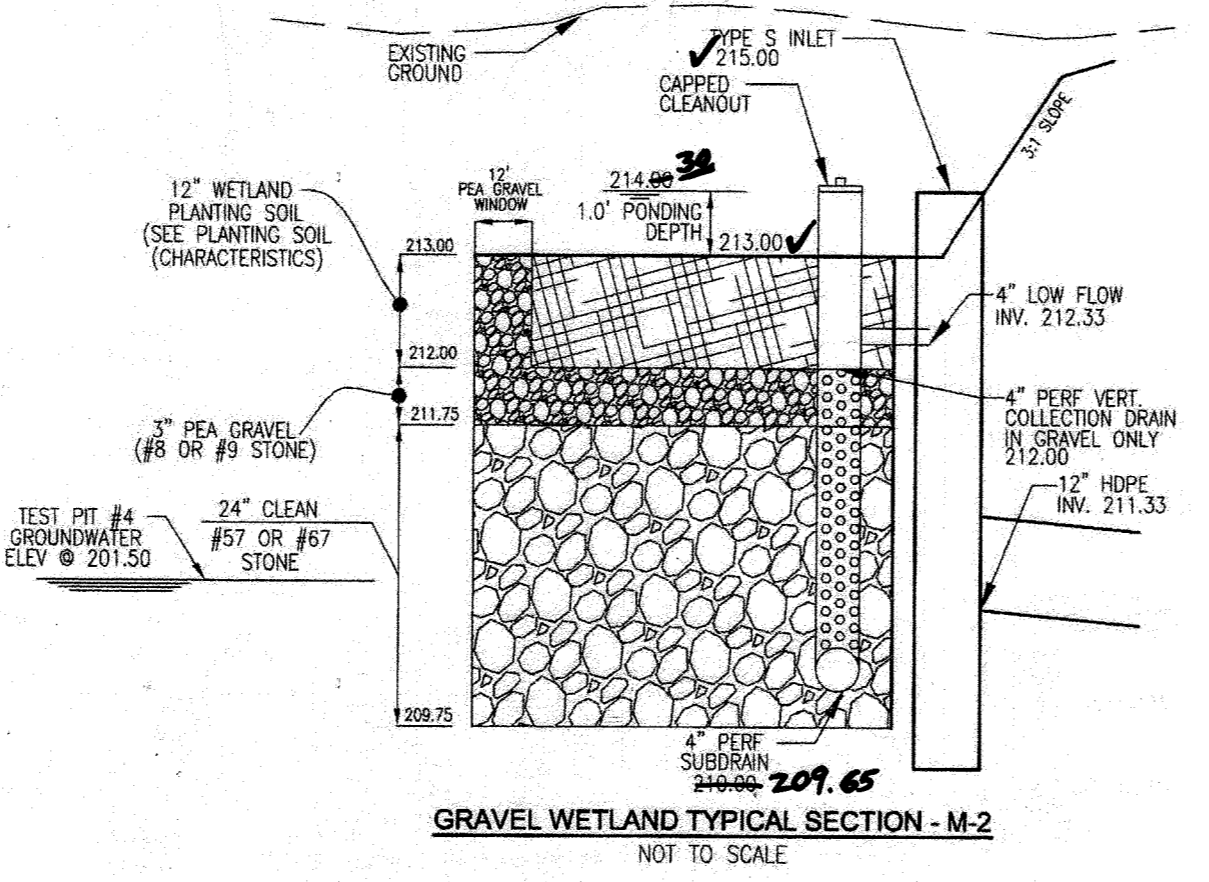
15 SHEET OF 22



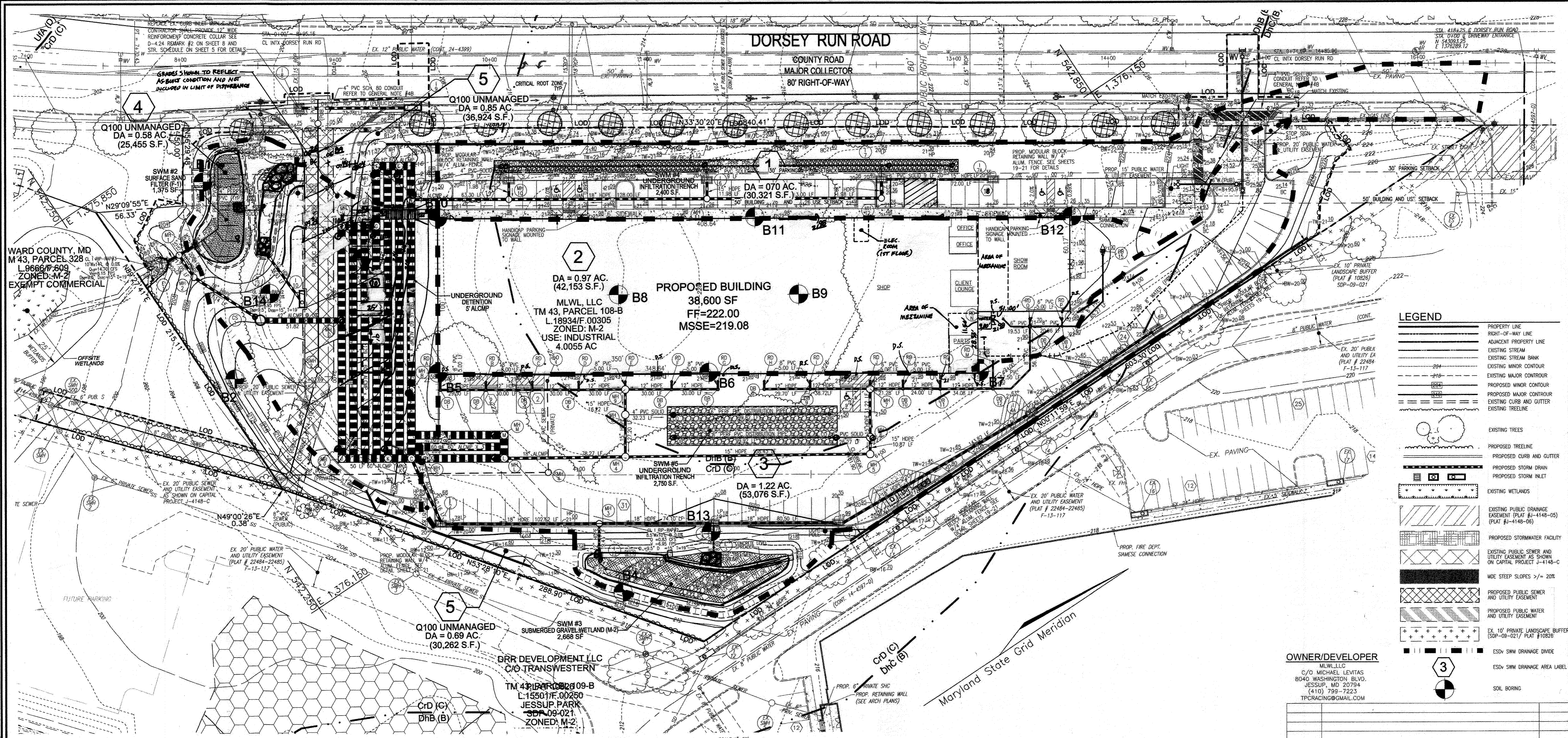
CLEANOUT/OBSERVATION WELL CAP DETAIL
NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Approved by: Chad Edmondson 3/30/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
Checked by: Any Simon 3/30/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
Director: Any Simon



GRAVEL WETLAND TYPICAL SECTION - M-2
NOT TO SCALE



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING STREAM
- EXISTING STREAM BANK
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING CURB AND GUTTER
- EXISTING TREELINE
- EXISTING TREES
- PROPOSED TREELINE
- PROPOSED CURB AND GUTTER
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EXISTING WETLANDS
- EXISTING PUBLIC DRAINAGE EASEMENT (PLAT #J-4148-05) (PLAT #J-4148-06)
- PROPOSED STORMWATER FACILITY
- EXISTING PUBLIC SEWER AND UTILITY EASEMENT AS SHOWN ON CAPITAL PROJECT J-4148-C
- WIDE STEEP SLOPES >= 20%
- PROPOSED PUBLIC SEWER AND UTILITY EASEMENT
- PROPOSED PUBLIC WATER AND UTILITY EASEMENT
- EX. 10' PRIVATE LANDSCAPE BUFFER (SDP-09-021) PLAT #10826
- ESDv SWM DRAINAGE DIVIDE
- ESDv SWM DRAINAGE AREA LABEL
- SOIL BORING

OWNER/DEVELOPER
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5	REVISE PARKING, SIDEWALK AND PARKING TABULATION	5-15-24
1	REVISE PLAN TO MATCH ARCHITECTURAL PLAN	4-19-23
NO.	REVISION	DATE

ESDv DRAINAGE AREA MAP
 SCALE: 1"=30'

TPC RACING - ESDv COMPUTATIONS

Designed by: gah
 Date: 4/30/21
 Checked by: rhy
 Date:

DA #	% IMPERV	Rv	DA (SF)	DA (AC)	MINIMUM VOLUME (CF)	MAXIMUM VOLUME (CF)	ABOVE GROUND VOLUME PROVIDED (SF)	IMPERV (AC)	IMPERV (CF)	GREENEREV AREA (AC)	GREENEREV (CF)	REMARKS
#1 SWM #4 GRAVEL TRENCH	91.60	0.8744	30827	0.70	2210	5746	4619	5280	27781	0.64	0.06	GRAVEL TRENCH Below ground Vol. = 2400 (sf) (porosity) Recharge Vol. = 2400 (sf) (porosity) (depth ft.)
#2 SWM #5 GRAVEL TRENCH	96.08	0.9147	42311	0.97	3225	8386	6741	6050	30552	0.93	0.04	GRAVEL TRENCH Below ground Vol. = 2750 (sf) (porosity) Recharge Vol. = 2750 (sf) (porosity) (depth ft.)
#3 SUBMERGED GW WETLAND	82.76	0.7949	53076	1.22	3516	9143	7348	3557	43928	1.03	0.21	N/A SUBMERGED GRAVEL WETL. 3557 2668 SF MBR @ 1.0 PONDING **No rech.
#4 SURFACE SAND FILTE	27.58	0.2982	28455	0.58	633	1645	1322	1642	7020	0.16	0.01	158 SURFACE SAND FILTER (F-3) Above ground Vol. = 1642 (sf) (porosity) Below ground Vol. = 1322 (sf) (porosity) Recharge Vol. = 1795 (sf) (porosity) (depth ft.)
TOTALS	78.97	0.7607	151169	3.47	9583	24917	20029	17354	119381	2.74	0.32	1816 1861

REMAINING ESDv TO BE STORED IN UNDERGROUND

MAPPED SOILS TYPES - SAVAGE SE MAP #25

SYMBOL	NAME / DESCRIPTION	GROUP (K-FACTOR)	HYDRIC	HYDRIC INCLUSIONS	PRONE FARMLAND	<15% SLOPE PROSION POTENTIAL
DIB	DOWNER-HAMMONTON SANDY LOAM, 2 TO 5 PERCENT	B	.17	NO	NO	NO
DIC	DOWNER-HAMMONTON SANDY LOAM, 5 TO 10 PERCENT	B	.17	NO	NO	NO
CID	CROOM AND EYEBROW SOILS, 10 TO 15 PERCENT SLOPES	C	.37	NO	NO	YES

TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY

NOTE:
 HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

NOTE:
 EITHER PERMANENT OR TEMPORARY STABILIZATION IS TO BE APPLIED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR REGARDLESS OF DAYS/DATES IN THE STANDARD SEDIMENT CONTROL NOTES AND/OR SEEDING SPECIFICATIONS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief of Development Engineering Division
 Chad Edmondson
 DATE: 3/30/2022

Chief of Division of Land Development
 Amy Simon
 DATE: 3/30/2022

DIRECTOR



AS-BUILT CERTIFICATION FOR PSWM

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

NAME: Rob Vogel
 P.E. #: 16193
 DATE: 5-6-24

SITE DEVELOPMENT PLAN
ESDv DRAINAGE AREA MAP AND DETAILS
TPC RACING
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ZONED: M-2
 PARCEL 108-B
 HOWARD COUNTY, MARYLAND

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TAX MAP 43, GRID 22
 1ST ELECTION DISTRICT

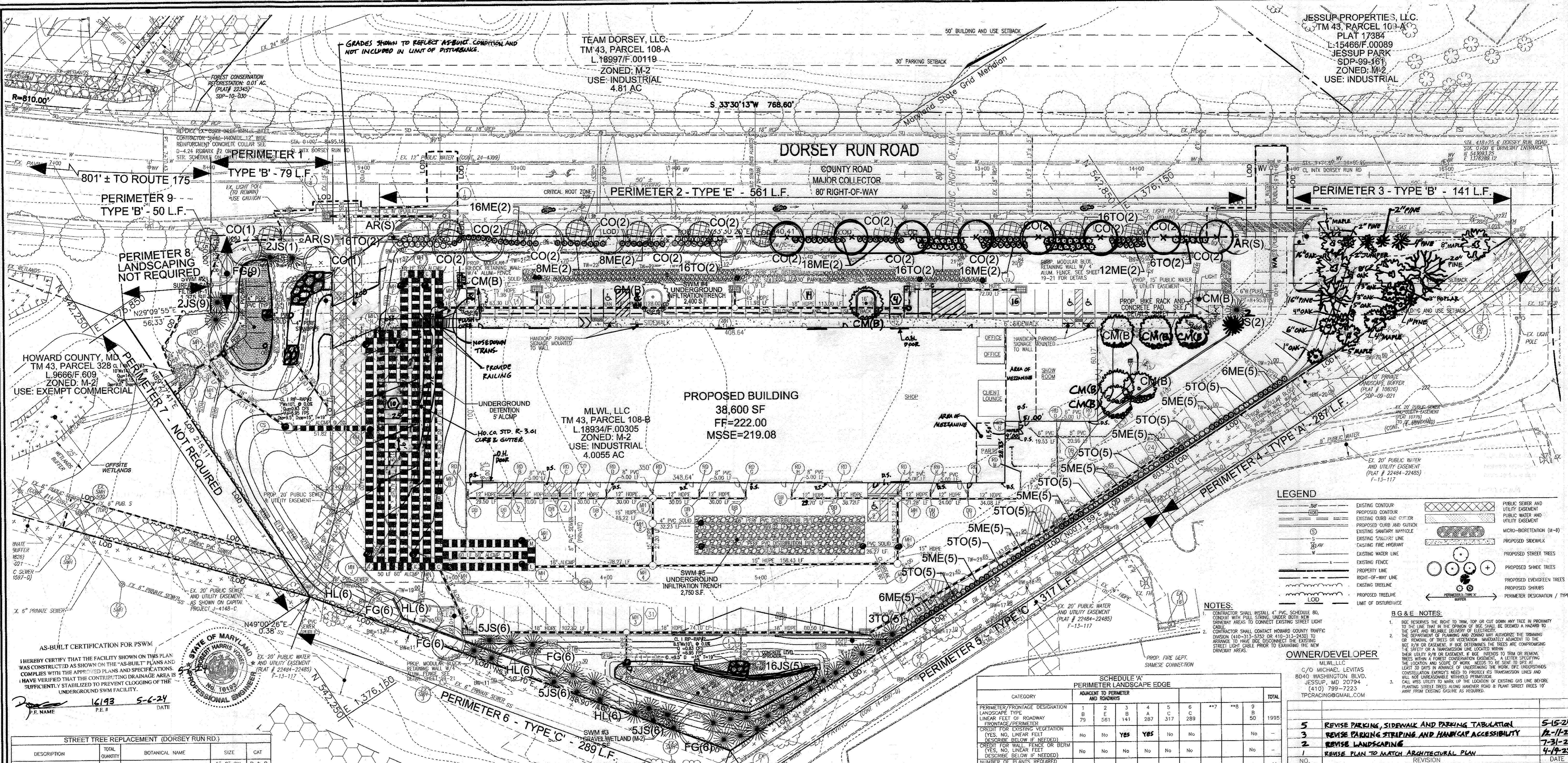
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16 SHEET OF 22

TEAM DORSEY, LLC.
TM 43, PARCEL 108-A
L 18997/F 00119
ZONED: M-2
USE: INDUSTRIAL
4.81 AC

JESSUP PROPERTIES, LLC.
TM 43, PARCEL 108-A
PLAT 17384
L 15466/F 00089
JESSUP PARK
SDP-09-021
ZONED: M-2
USE: INDUSTRIAL



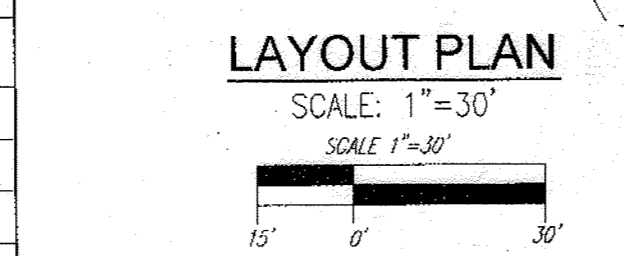
STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 16193
ROBERT B. VOGEL

STREET TREE REPLACEMENT (DORSEY RUN RD.)

DESCRIPTION	TOTAL QUANTITY	BOTANICAL NAME	SIZE	CAT
EXISTING TREES TO BE REMOVED	4	ACER RUBRUM 'OCTOBER GLORY'	5'-8" CAL	B & B
REPLACEMENT TREES REQUIRED	4	OCTOBER GLORY RED MAPLE	4" CAL*	B & B
REPLACEMENT TREES PROVIDED	4			

PLANTING SCHEDULE

SYMB.	KEY	SCHED. 'A' QUANTITY	SCHED. 'B' QUANTITY	SCHED. 'C' QUANTITY	STREET TREE QUANTITY	ADDITIONAL PLANTINGS QUANTITY	BOTANICAL NAME	SIZE	CAT
AR	+	-	-	-	4	-	ACER RUBRUM 'OCTOBER GLORY'	4" CAL*	B & B
HL	+	4	-	-	-	-	QUERCUS ROBUR 'FASTIGIATA' COLUMNAR ENGLISH OAK	2.5"-3" CAL	B & B
FG	+	5	-	-	-	-	QUERCUS ROBUR 'FASTIGIATA' COLUMNAR ENGLISH OAK	2.5"-3" CAL	B & B
CO	+	16	-	-	-	-	QUERCUS PALUSTRIS 'GREEN PILLAR' GREEN PILLAR COLUMNAR OAK	2.5"-3" CAL	B & B
CM	+	-	8	-	-	-	LAGERSTROMIA INDICA 'NATCHEZ' NATCHEZ CREEK NYRILE WHITE	8"-10" HGT.	B & B
JS	+	37	-	-	-	-	JUNIPERUS CHINENSIS 'SPARTAN' CHINESE JUMPINER 'SPARTAN'	6"-8" HGT.	B & B
TO	+	108	-	-	-	-	THELMA OCCIDENTALIS 'EMERALD' EMERALD GREEN ARBOVITAE	2.5"-3" HT.	B & B
ME	+	120	-	-	-	-	EUKALYPTUS KUALTSCHOVICUS 'MANHATTAN' MANHATTAN EUCALYPTUS	2.5"-3" HT.	B & B



DRR DEVELOPMENT LLC
C/O TRANSWESTERN
TM 43, PARCEL 108-B
L 15501/F 00250
JESSUP PARK
SDP-09-021
ZONED: M-2
USE: INDUSTRIAL
F-13-117

GENERAL NOTES:
1. LANDSCAPING SURETY
2. PUBLIC STREET TREES ALONG DORSEY RUN ROAD WERE PROVIDED UNDER CAPITAL PROJECT J-4148-C...
3. THE TOTAL COMBINED LANDSCAPING SURETY IN THE AMOUNT OF \$24,150 SHALL BE POSTED AS PART OF THE SITE DEVELOPMENT PLAN DEVELOPER'S AGREEMENT...
4. THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING...
5. APPLICABLE REGULATIONS ALL REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION...
6. THE SUBJECT PROPERTY IS ZONED M-2 IN ACCORDANCE WITH THE 10/6/13 ZONING REGULATIONS...
7. THE PROJECT BOUNDARY SHOWN HEREON IS BASED ON A PLAN BY ROBERT B. VOGEL ENGINEERING, INC. DATED MARCH 20, 2001...
8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A PLAN BY ROBERT B. VOGEL ENGINEERING, INC. DATED MARCH 20, 2001...
9. ADDITIONAL EXISTING TOPOGRAPHY SHOWN TAKEN FROM AN AERIAL PHOTOGRAPHICAL SURVEY PREPARED BY ROTUNG SERIAL SURVEYS...
10. THE REMOVAL OF TREES 30' OR GREATER DIAMETER IS PROHIBITED WITHOUT COUNTY APPROVAL.

LIGHTING LOCATION CHART

NORTHING	EASTING
542938.46	1376234.71
542858.31	1376230.17
542386.53	1375919.72
542344.06	1376134.87
542550.00	1375290.04

SCHEDULE 'A' PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER AND ROADWAYS	1	2	3	4	5	6	7	8	9	TOTAL
PERIMETER/FRONTAGE DESIGNATION	B	E	B	A	C	G					1995
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	79	561	141	687	317	288					
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	No	No	YES	YES	No	No					No
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	No	No	No	No	No	No					No
NUMBER OF PLANTS REQUIRED	2	14	3	5	8	8					41
**SHADE TREES	-	-	-	-	16	15					31
**EVERGREEN TREES (ORNAMENTAL REPLACEMENT) SHRUBS	-	-	-	-	-	-					140
NUMBER OF PLANTS PROVIDED	2	14	3	5	8	8					33
SHADE TREES	-	-	-	-	16	15					31
EVERGREEN TREES (ORNAMENTAL REPLACEMENT) SHRUBS	-	-	-	-	-	-					140
OTHER TREES (21 SUBSTITUTION) * SHRUBS (10) (2 SUBSTITUTION) DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED	-	-	-	-	-	-					*228

SCHEDULE 'B' PARKING LOT INTERNAL LANDSCAPING

NUMBER OF SURFACE PARKING SPACES	NUMBER OF TREES PROVIDED
105	6

SCHEDULE 'B' SIGNAGE LOCATION CHART

NORTHING	EASTING	TYPE
542445.78	1375309.82	*STOP SIGN MUTED R1-1
542332.50	1376243.91	*STOP SIGN MUTED R1-1

ACREDIT 2 EXISTING SHADE TREES LANDSCAPE NOTES
1. SHOULD ANY TREE DESIGNATED FOR PRESERVATION FOR WHICH LANDSCAPING 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...
2. PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THE FINAL PLAN...
3. SURETY FOR THE PROPOSED LANDSCAPING SHALL BE BASED ON THE NUMBER OF PLANTINGS REQUIRED...
4. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE QUANTITY OF PLANTINGS SHOWN ON THE PLAN AND IN THE PLANT LIST, THE QUANTITIES IN THE PLAN LIST SHALL PREVAIL.

LEGEND

---	EXISTING CONTOUR	---	PUBLIC SEWER AND UTILITY EASEMENT
---	EXISTING CURB AND GUTTER	---	PUBLIC WATER AND UTILITY EASEMENT
---	PROPOSED CURB AND GUTTER	---	MICRO-BIODEGRADABLE (M-B)
---	EXISTING SANITARY MANHOLE	---	PROPOSED SIDEWALK
---	EXISTING SANITARY LINE	---	PROPOSED STREET TREES
---	EXISTING WATER LINE	---	PROPOSED SHADE TREES
---	EXISTING FENCE	---	PROPOSED EVERGREEN TREES
---	PROPERTY LINE	---	PROPOSED SHRUBS
---	RIGHT-OF-WAY LINE	---	PERIMETER DESIGNATION / TYPE
---	EXISTING TREETREE	---	
---	PROPOSED TREETREE	---	

NOTES:
1. CONTRACTOR SHALL INSTALL 4" PVC SCHEDULE 80, CONDUIT WITH FULL STRONG UNDER BOTH NEW CONCRETE AREAS TO CONNECT EXISTING STREET LIGHT CABLE...
2. CONTRACTOR SHALL CONTACT HOWARD COUNTY TRAFFIC DIVISION (410-313-5752 OR 410-313-2430) TO ASSIGN TO HAVE SIGN DISCONNECT THE EXISTING STREET LIGHT CABLE PRIOR TO EXHUMATING THE NEW CONCRETE AREAS.

OWNER/DEVELOPER
MLWL LLC
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 799-7223
TPCRACING@GMAIL.COM

REVISIONS

NO.	REVISION	DATE
5	REVISE SIDEWALK AND PARKING TABULATION	5-15-24
3	REVISE PARKING STRIPING AND PARKING ACCESSIBILITY	12-11-23
2	REVISE LANDSCAPING	7-31-23
1	REVISE PLAN TO MATCH ARCHITECTURAL PLAN	4-19-23

SITE DEVELOPMENT PLAN
LANDSCAPE, LIGHTING AND SIGNAGE PLAN
TPC RACING
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L 16140 / F. 00374
ZONED: M-2
PARCEL 108-B
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

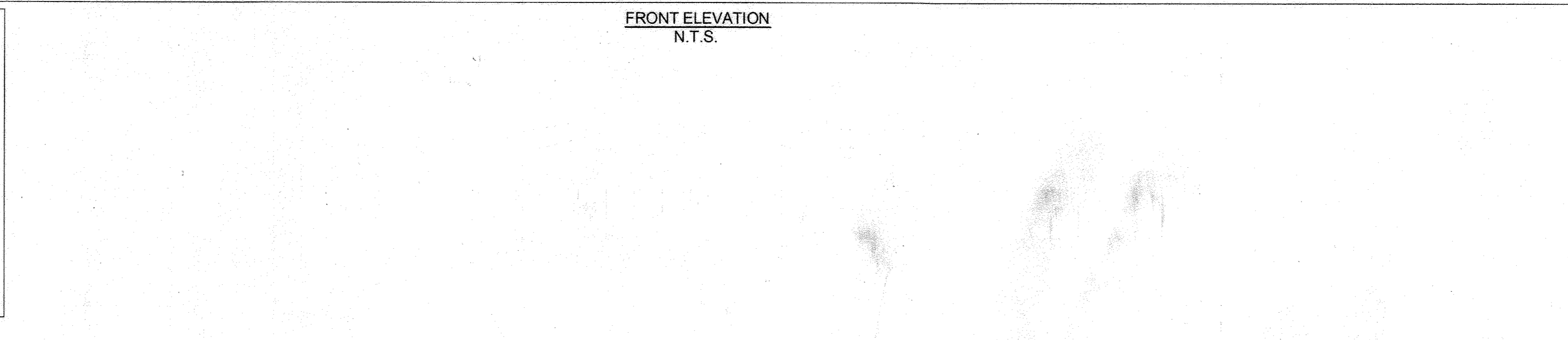
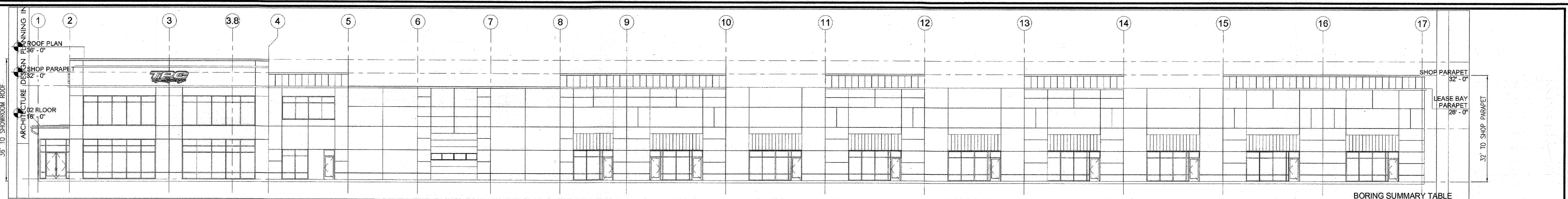
VOGEL ENGINEERING
3300 NORTH RIDGE ROAD, SUITE 111, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmsons.com

TIMMONS GROUP
17 SHEET OF 22

PROFESSIONAL CERTIFICATE
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 ON DATE 10-27-2022

DESIGN BY: GAH/OB
DRAWN BY: GAH/OB
CHECKED BY: RHV
DATE: SEPTEMBER 2021
SCALE: AS SHOWN
W.O. NO.: 04-76/43575

STATE OF MARYLAND
ROBERT B. VOGEL, P.E. No. 16193



BORING SUMMARY TABLE

Boring ID	Proposed Construction	Existing Elev.*	Proposed Elev.*	Depth	Topsoil Thickness	Fill / Possible Fill Depth	Fill / Possible Fill Elev.	Shallowest Groundwater Encountered (Depth)	Highest Groundwater Encountered (Elev.)
B-1	SWM	207.0	205.3	10.0	1.0	NE	202.0	NE	201.5
B-2	SWM	209.0	210.3	10.0	0.0	NE	210.3	NE	210.5
B-3	SWM	210.0	210.3	10.0	3.0	NE	210.3	NE	210.5
B-4	SWM	214.0	213.8	10.0	4.0	NE	213.8	NE	210.3
B-5	Building	214.5	217.0	20.0	3.0	NE	212.0	NE	NE
B-6	Building	217.0	217.0	20.0	4.0	NE	214.5	NE	NE
B-7	Building	220.5	217.0	20.0	5.0	NE	218.0	16.8	203.7
B-8	Building	216.0	217.0	20.0	4.0	NE	215.0	NE	NE
B-9	Building	218.0	217.0	20.0	3.0	NE	218.5	NE	NE
B-10	Building	215.0	217.0	20.0	4.0	NE	212.5	NE	NE
B-11	Building	218.5	217.0	20.0	6.0	NE	219.5	NE	NE
B-12	Building	222.0	217.0	20.0	5.0	NE	219.5	NE	NE
B-13	SWM	217.0	212.5	10.0	6.0	NE	218.5	NE	NE
B-14	SWM	208.0	205.0	10.0	6.0	NE	205.5	NE	NE

NOTE:
 NE - Not Encountered
 * Data estimated based on the grading plan provided by the Civil Engineer

HILLIS-CARNEY ENGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION											
Number	Depth	Soil Description	Moisture (%)	Specific Gravity	Unit Weight (pcf)	Penetration (lb/in)	Classification	Remarks	Notes	Drawn	Checked
B-1	0-1	Topsoil	12	2.65	110	10	SM				
B-1	1-2	Clayey sand	18	2.65	115	15	SM				

OWNER/DEVELOPER
 MLW, LLC
 C/O MICHAEL LEVITAS
 8040 WASHINGTON BLVD.
 JESSUP, MD 20794
 (410) 799-7223
 TPCRACING@GMAIL.COM

NO.	REVISION	DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Declassified by: *Chad Edmondson* 3/30/2022
 CHIEF DEVELOPMENT ENGINEERING DIVISION DATE 3/30/2022
 CHIEF DIVISION OF LAND DEVELOPMENT DATE 3/30/2022
 DIRECTOR DATE

AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.
 NO AS-BUILT INFORMATION ON THIS SHEET
 J. P. RAYMOND 1693 5-6-24
 PE-# DATE

SITE DEVELOPMENT PLAN
SOIL BORINGS AND BUILDING ELEVATIONS
TPC RACING
 7869 DORSEY RUN ROAD
 JESSUP, MD 20794
 L. 16140 / F. 00371

TAX MAP 43 CRD 22
 1ST ELECTION DISTRICT

ZONED: M-2
 PARCEL: 108
 HOWARD COUNTY, MARYLAND

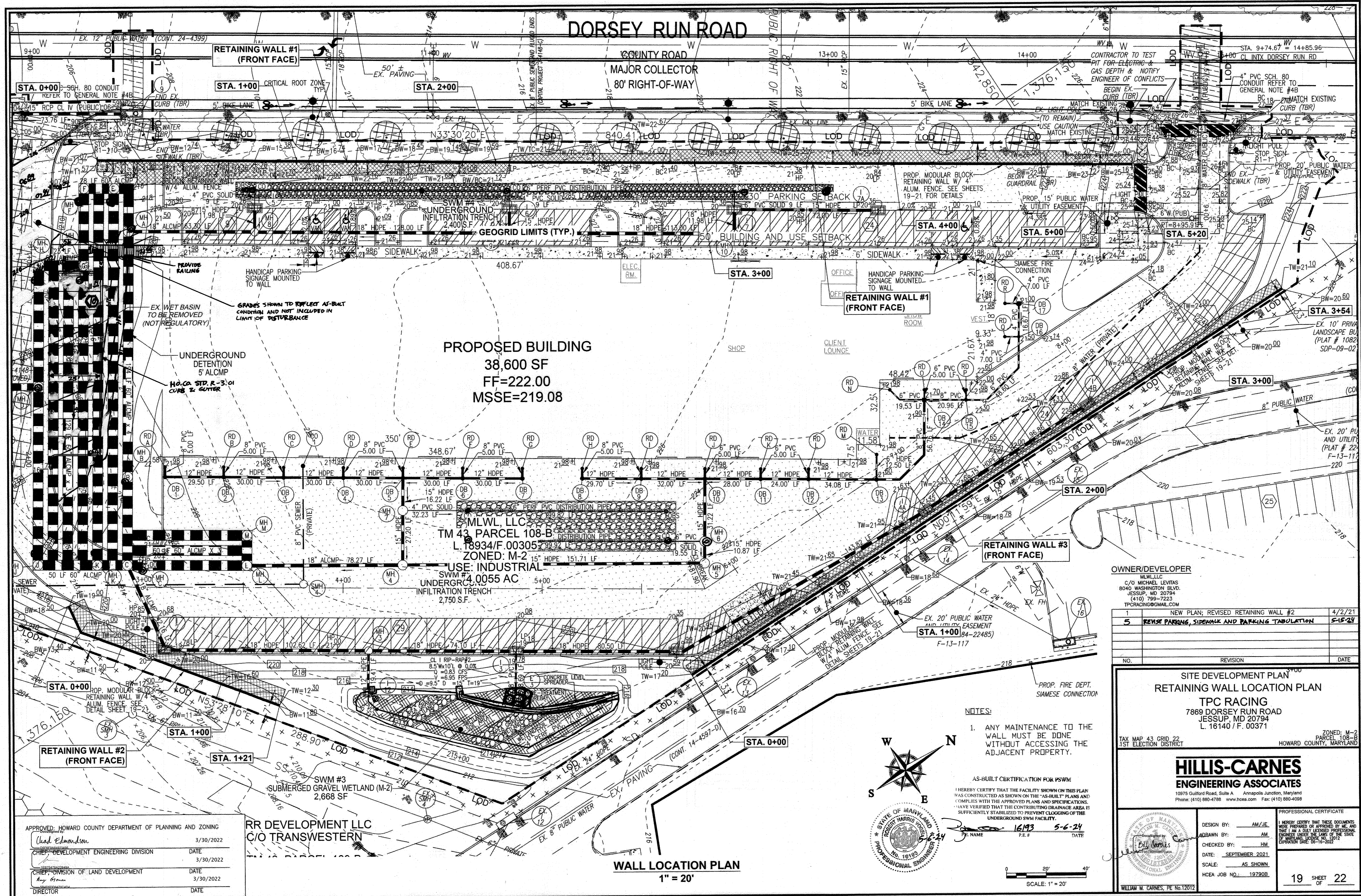
VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
 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. 16193 EXPIRES 09-27-2022

DESIGN BY: GAH/OB
 DRAWN BY: CAH/OB
 CHECKED BY: RHV
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 W.O. NO.: 04-76/43575

18 SHEET OF 22

AS-BUILT JAN. 2024 SDP-20-050



PROPOSED BUILDING
 38,600 SF
 FF=222.00
 MSSE=219.08

TM 43, PARCEL 108-B
 L. 18934/F. 00305
 ZONED: M-2
 USE: INDUSTRIAL
 UNDERGROUND INfiltration TRENCH
 2,750 S.F.

OWNER/DEVELOPER
 MLWLLLC
 C/O MICHAEL LEVITAS
 8040 WASHINGTON BLVD.
 JESSUP, MD 20794
 (410) 799-7223
 TPCRACING@gmail.com

NO.	REVISION	DATE
1	NEW PLAN; REVISED RETAINING WALL #2	4/2/21
5	REMOVE PARKING, SIDEWALK AND PARKING TABULATION	5-15-24

SITE DEVELOPMENT PLAN
RETAINING WALL LOCATION PLAN
TPC RACING
 7869 DORSEY RUN ROAD
 JESSUP, MD 20794
 L. 16140 / F. 00371
 ZONED: M-2
 PARCEL 108-B
 HOWARD COUNTY, MARYLAND

HILLIS-CARNES
ENGINEERING ASSOCIATES
 10975 Guilford Road, Suite A Annapolis Junction, Maryland
 Phone: (410) 860-4788 www.hcea.com Fax: (410) 880-4098

PROFESSIONAL CERTIFICATE
 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. 16193 EXPIRATION DATE: 06-16-2022

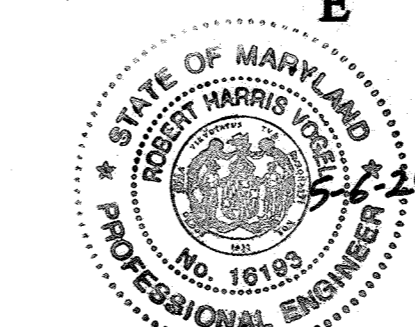
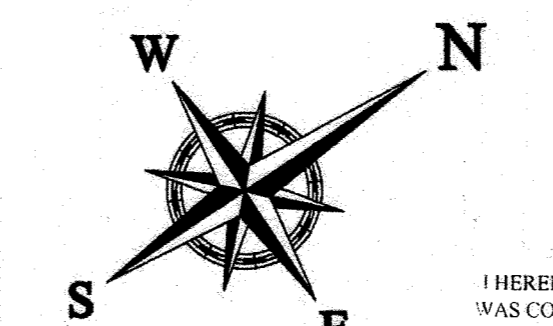
DESIGN BY: AM/JE
 DRAWN BY: AM
 CHECKED BY: HM
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 HCEA JOB NO.: 19790B

WILLIAM M. CARNES, PE No. 12072

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chad Edmondson 3/30/2022
 CHIEF OF DEVELOPMENT ENGINEERING DIVISION
 CHIEF OF DIVISION OF LAND DEVELOPMENT 3/30/2022
 Any Goman 3/30/2022
 DIRECTOR

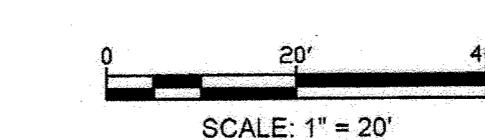
RR DEVELOPMENT LLC
C/O TRANSWESTERN

- NOTES:**
- ANY MAINTENANCE TO THE WALL MUST BE DONE WITHOUT ACCESSING THE ADJACENT PROPERTY.



AS-BUILT CERTIFICATION FOR PSWM
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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.

16193 5-6-24
 P.E. NAME DATE



WALL LOCATION PLAN
 1" = 20'

MODULAR CONCRETE BLOCK RETAINING WALL

PART 1: GENERAL

1.01 DESCRIPTION

- A. WORK SHALL CONSIST OF FURNISHING AND CONSTRUCTION OF A MODULAR RETAINING WALL SYSTEM IN ACCORDANCE WITH THESE SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES, GRADES, DESIGN, AND DIMENSIONS SHOWN ON THE PLANS.
- B. WORK INCLUDES PREPARING FOUNDATION SOIL, FURNISHING AND INSTALLING LEVELING PAD, UNIT FACING SYSTEM, UNIT DRAINAGE FILL AND REINFORCED BACKFILL TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS.
- C. WORK INCLUDES FURNISHING AND INSTALLING GEOGRID SOIL REINFORCEMENT OF THE TYPE, SIZE, LOCATION, AND LENGTHS DESIGNATED ON THE CONSTRUCTION DRAWINGS.

1.02 DELIVERY, STORAGE AND HANDLING

- A. CONTRACTOR SHALL CHECK ALL MATERIALS UPON DELIVERY TO ASSURE THAT THE PROPER TYPE, GRADE, COLOR, AND CERTIFICATION HAS BEEN RECEIVED.
- B. CONTRACTOR SHALL PROTECT ALL MATERIALS FROM DAMAGE DUE TO JOB SITE CONDITIONS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DAMAGED MATERIALS SHALL NOT BE INCORPORATED INTO THE WORK.

PART 2: PRODUCTS

2.01 MODULAR CONCRETE RETAINING WALL UNITS

- A. MODULAR CONCRETE UNITS SHALL CONFORM TO THE FOLLOWING ARCHITECTURAL REQUIREMENTS:

FACE COLOR - COLOR MAY BE SPECIFIED BY THE OWNER.
FACE FINISH - HARD SPLIT IN ANGULAR TRI-PLANE OR STRAIGHT FACE CONFIGURATION. OTHER FACE FINISHES WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL OF OWNER.

BOND CONFIGURATION - RUNNING WITH BONDS NOMINALLY LOCATED AT MIDPOINT IN VERTICALLY ADJACENT UNITS, IN BOTH STRAIGHT AND CURVED ALIGNMENTS.

EXPOSED SURFACES OF UNITS SHALL BE FREE OF CHIPS, CRACKS OR OTHER IMPERFECTIONS WHEN VIEWED FROM A DISTANCE OF 20 FEET UNDER DIFFUSE LIGHTING.

- B. MODULAR CONCRETE UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C1372 - STANDARD SPECIFICATIONS FOR SEGMENTAL RETAINING WALL UNITS.

- C. MODULAR CONCRETE UNITS SHALL CONFORM TO THE FOLLOWING STRUCTURAL AND GEOMETRIC REQUIREMENTS MEASURED IN ACCORDANCE WITH ASTM C140 SAMPLING & TESTING CONCRETE MASONRY UNITS.

COMPRESSIVE STRENGTH = 3000 PSI MINIMUM;
ABSORPTION = 8% MAXIMUM (6% MAXIMUM IN NORTHERN STATES) FOR STANDARD WEIGHT AGGREGATES;

DIMENSIONAL TOLERANCES = ±1/8" FROM NOMINAL UNIT DIMENSIONS NOT INCLUDING ROUGH SPLIT FACE ± 1/2" FROM NOMINAL UNIT HEIGHT. UNIT SIZE - 8" (H) X 18" (W) X 12" (D) MINIMUM FOR COMPAC III UNITS; UNIT SIZE - 8" (H) X 18" (W) X 18" (D) MINIMUM FOR STANDARD UNITS.

INTER-UNIT SHEAR STRENGTH - 1000 PLF MINIMUM AT 2 PSI NORMAL PRESSURE, AT 2 PSI NORMAL FORCE.

[GEOGRID] UNIT PEAK CONNECTION STRENGTH - 1000 PLF MINIMUM.]

2.02 SHEAR AND REINFORCEMENT PIN CONNECTORS

- A. SHEAR AND REINFORCEMENT PIN CONNECTORS SHALL BE 1/2 INCH DIAMETER THERMOSET ISOPHTHALIC POLYESTER RESIN PULTRUDED FIBERGLASS REINFORCEMENT RODS OR EQUIVALENT TO PROVIDE CONNECTION BETWEEN VERTICALLY AND HORIZONTALLY ADJACENT UNITS AND GEOSYNTHETIC REINFORCEMENT WITH THE FOLLOWING REQUIREMENTS: FLEXURAL STRENGTH IN ACCORDANCE WITH ASTM D4478; 128,000 PSI MINIMUM; SHORT BEAM SHEAR IN ACCORDANCE WITH ASTM D4475; 6,400 PSI MINIMUM.

2.03 BASE LEVELING PAD MATERIAL

- A. MATERIAL SHALL CONSIST OF A COMPACTED #57 CRUSHED STONE BASE OR CONCRETE AS SHOWN ON THE CONSTRUCTION DRAWINGS.

2.04 UNIT DRAINAGE FILL

- A. UNIT DRAINAGE FILL SHALL CONSIST OF #57 CRUSHED STONE.

2.05 REINFORCED BACKFILL

- A. REINFORCED BACKFILL SHALL BE TYPE SM, FREE OF DEBRIS AND MEET THE FOLLOWING GRADATION TESTED IN ACCORDANCE WITH ASTM D422 AND MEET OTHER PROPERTIES SHOWN ON THE PLAN.

SIEVE SIZE	PERCENT PASSING
1 1/2 INCH	100
3/4 INCH	100-75
NO. 40	0-60
NO. 200	0-35

2.06 GEOGRID SOIL REINFORCEMENT

- A. GEOSYNTHETIC REINFORCEMENT SHALL CONSIST OF GEOGRIDS MANUFACTURED SPECIFICALLY FOR SOIL REINFORCEMENT APPLICATIONS AND SHALL BE MANUFACTURED FROM HIGH TENACITY POLYESTER (PET) YARN.
- B. MATERIAL CAN BE SITE EXCAVATED SOILS WHERE THE ABOVE REQUIREMENTS CAN BE MET. UNSUITABLE SOILS FOR BACKFILL (HIGHLY PLASTIC CLAYS OR ORGANIC SOILS) SHALL NOT BE USED IN THE REINFORCED SOIL MASS.
- C. CONTRACTOR SHALL SUBMIT REINFORCED FILL SAMPLE AND LABORATORY TEST RESULTS FOR APPROVAL PRIOR TO THE USE OF ANY REINFORCED BACKFILL MATERIAL.

PLASTICITY INDEX (PI) <15 AND LIQUID LIMIT <40, PER ASTM D4318.

- B. MATERIAL CAN BE SITE EXCAVATED SOILS WHERE THE ABOVE REQUIREMENTS CAN BE MET. UNSUITABLE SOILS FOR BACKFILL (HIGHLY PLASTIC CLAYS OR ORGANIC SOILS) SHALL NOT BE USED IN THE REINFORCED SOIL MASS.

CONTRACTOR SHALL SUBMIT REINFORCED FILL SAMPLE AND LABORATORY TEST RESULTS FOR APPROVAL PRIOR TO THE USE OF ANY REINFORCED BACKFILL MATERIAL.

2.07 DRAINAGE PIPE

- A. THE DRAINAGE PIPE SHALL BE PERFORATED CORRUGATED HDPE PIPE MANUFACTURED IN ACCORDANCE WITH ASTM D1248.

2.08 GEOTEXTILE FILTER FABRIC

- A. WHEN REQUIRED, FILTER FABRIC SHALL BE A NEEDLE-PUNCHED NONWOVEN FABRIC MEETING REQUIREMENTS OF AASHTO M288.

PART 3 EXECUTION

3.01 EXCAVATION

- A. CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. OWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSPECTING AND APPROVING THE SUBGRADE PRIOR TO PLACEMENT OF LEVELING MATERIAL OR FILL SOILS.

3.02 BASE LEVELING PAD

- A. LEVELING PAD MATERIAL SHALL BE PLACED TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS, TO A MINIMUM THICKNESS OF 6 INCHES AND EXTEND LATERALLY A MINIMUM OF 6" IN FRONT AND BEHIND THE MODULAR WALL UNIT.
- B. LEVELING PAD SHALL BE PREPARED TO INSURE FULL CONTACT TO THE BASE SURFACE OF THE CONCRETE UNITS.

- C. COMPACT TO MINIMUM 95% OF STANDARD PROCTOR DENSITY PER ASTM D698.

3.03 MODULAR UNIT INSTALLATION

- A. FIRST COURSE OF UNITS SHALL BE PLACED ON THE LEVELING PAD AT THE APPROPRIATE LINE AND GRADE. ALIGNMENT AND LEVEL SHALL BE CHECKED IN ALL DIRECTIONS AND INSURE THAT ALL UNITS ARE IN FULL CONTACT WITH THE BASE AND PROPERLY SEATED.
- B. PLACE THE FRONT OF UNITS SIDE-BY-SIDE. DO NOT LEAVE GAPS BETWEEN ADJACENT UNITS. LAYOUT OF CORNERS AND CURVES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

- C. INSTALL SHEAR/CONNECTING DEVICES PER MANUFACTURER'S RECOMMENDATIONS.
- D. PLACE AND COMPACT DRAINAGE FILL WITHIN AND BEHIND WALL UNITS. NOT LESS THAN 1.3 CU. FT. OF DRAINAGE FILL SHALL BE USED FOR EACH SQ. FT. OF WALL FACE, UNLESS NOTED OTHERWISE.

- E. PLACE AND COMPACT REINFORCED BACKFILL SOIL BEHIND DRAINAGE FILL. FOLLOW WALL ERECTION AND DRAINAGE FILL CLOSELY WITH BACKFILL.
- F. MAXIMUM STACKED VERTICAL HEIGHT OF WALL UNITS, PRIOR TO UNIT DRAINAGE FILL AND BACKFILL PLACEMENT AND COMPACTION, SHALL NOT EXCEED TWO COURSES.

- G. AT THE END OF EACH DAY'S OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LIFT OF REINFORCED BACKFILL AWAY FROM THE WALL UNITS TO DIRECT RUNOFF AWAY FROM WALL FACE. THE CONTRACTOR SHALL NOT ALLOW SURFACE RUNOFF FROM ADJACENT AREAS TO ENTER THE WALL CONSTRUCTION SITE.

3.06 CAP INSTALLATION

- A. PRIOR TO PLACEMENT OF CAP UNITS, THE UPPER SURFACE OF THE TOP COURSE WALL UNITS SHALL BE CLEANED OF SOIL AND ANY OTHER MATERIAL.
- B. CAP UNITS SHALL BE GLUED TO UNDERLYING UNITS WITH AN ALL-WEATHER EXTERIOR CONSTRUCTION ADHESIVE RECOMMENDED BY THE MANUFACTURER.

3.07 FIELD QUALITY CONTROL

- A. THE OWNER SHALL ENGAGE INSPECTION AND TESTING SERVICES, INCLUDING INDEPENDENT LABORATORIES, TO PROVIDE QUALITY ASSURANCE AND TESTING SERVICES DURING CONSTRUCTION.
- B. AS A MINIMUM, QUALITY ASSURANCE TESTING SHOULD INCLUDE FOUNDATION SOIL INSPECTION, RETAINED SOIL AND BACKFILL TESTING, VERIFICATION OF DESIGN PARAMETERS, AND OBSERVATION OF CONSTRUCTION FOR GENERAL COMPLIANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS.

- C. THE GEOGRID SHALL BE LAID HORIZONTALLY ON COMPACTED BACKFILL AND ATTACHED TO THE MODULAR WALL UNIT PINS AND WITHIN 1 INCH OF THE FACE OF THE UNITS. PLACE THE NEXT COURSE OF MODULAR CONCRETE UNITS OVER THE GEOGRID. THE GEOGRID SHALL BE PULLED TAUT, AND ANCHORED PRIOR TO BACKFILL PLACEMENT ON THE GEOGRID.

- D. GEOGRID REINFORCEMENTS SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTHS AND PLACED

- SIDE-BY-SIDE TO PROVIDE 100% COVERAGE AT EACH LEVEL. SPICED CONNECTIONS BETWEEN SHORTER PIECES OF GEOGRID OR GAPS GREATER THAN 2 INCHES BETWEEN ADJACENT PIECES OF GEOGRID ARE NOT PERMITTED.

3.05 REINFORCED BACKFILL PLACEMENT

- A. REINFORCED BACKFILL SHALL BE PLACED, SPREAD, AND COMPACTED IN SUCH A MANNER THAT MINIMIZES THE DEVELOPMENT OF SLACK IN THE GEOGRID AND INSTALLATION DAMAGE TO GEOGRID.
- B. REINFORCED BACKFILL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED 6 INCHES WHERE HAND OPERATED COMPACTION EQUIPMENT IS USED, OR 8 - 10 INCHES WHERE HEAVY COMPACTION EQUIPMENT IS USED. LIFT THICKNESS SHALL BE DECREASED TO ACHIEVE THE REQUIRED DENSITY AS REQUIRED.

- C. REINFORCED BACKFILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698. THE MOISTURE CONTENT OF THE BACKFILL MATERIAL PRIOR TO AND DURING COMPACTION SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT EACH LAYER AND SHALL BE +0% TO -3% OF OPTIMUM.

- D. ONLY LIGHTWEIGHT HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET FROM THE BACK OF THE MODULAR CONCRETE UNIT.

- E. TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY UPON THE GEOGRID REINFORCEMENT. A MINIMUM FILL THICKNESS OF 6 INCHES IS REQUIRED PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TRACKED VEHICLE TURNING SHOULD BE KEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND DAMAGING OR DISPLACING THE MODULAR CONCRETE UNITS OR GEOGRID.

- F. RUBBER Tired EQUIPMENT MAY PASS OVER GEOGRID REINFORCEMENT AT SLOW SPEEDS, LESS THAN 10 MPH. SUDDEN BRAKING AND TURNING SHALL BE AVOIDED.

- G. AT THE END OF EACH DAY'S OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LIFT OF REINFORCED BACKFILL AWAY FROM THE WALL UNITS TO DIRECT RUNOFF AWAY FROM WALL FACE. THE CONTRACTOR SHALL NOT ALLOW SURFACE RUNOFF FROM ADJACENT AREAS TO ENTER THE WALL CONSTRUCTION SITE.

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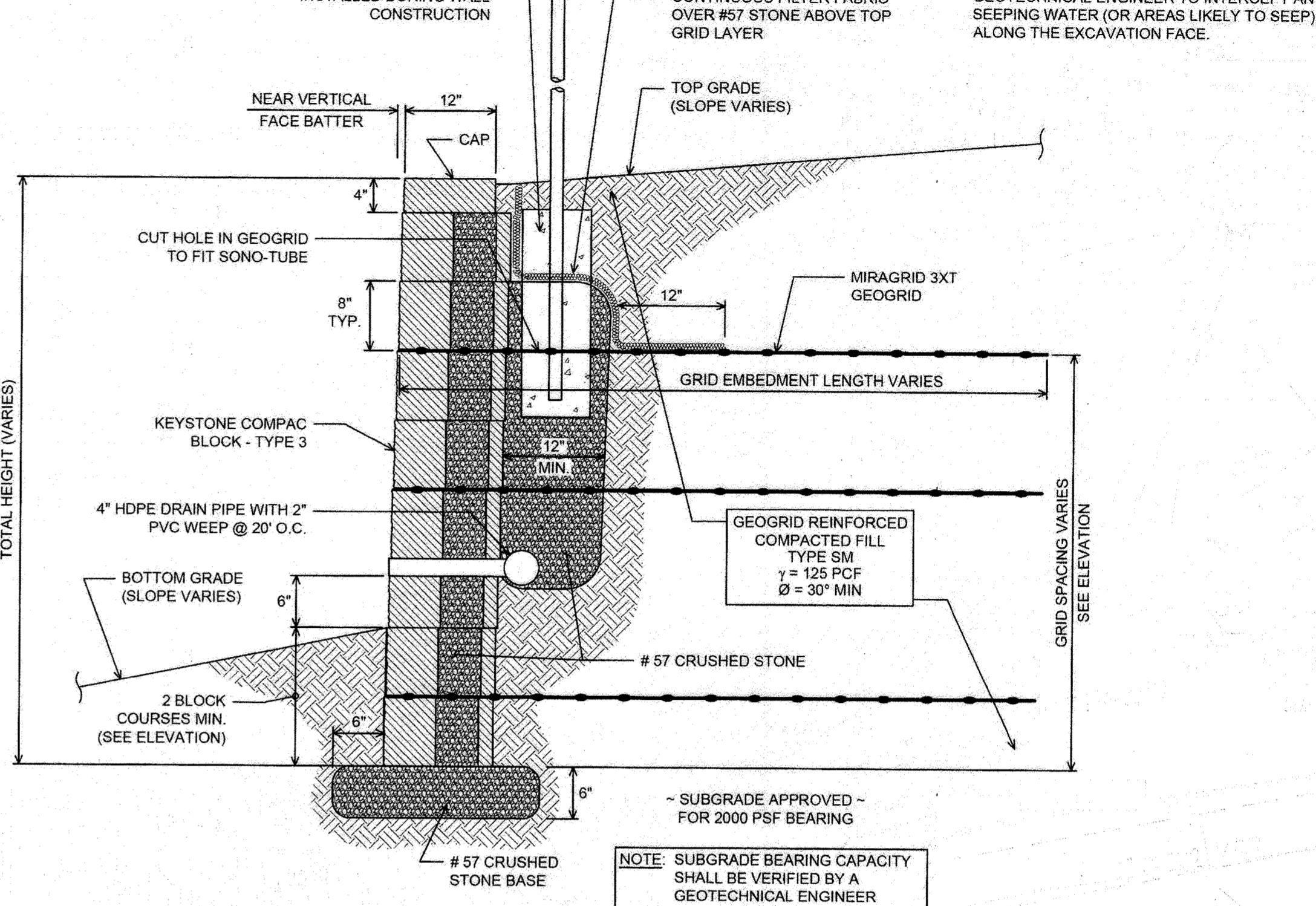
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- NOTE: FENCE SHALL BE A MIN. 42" ABOVE TOP GRADE AND SHALL NOT ALLOW PASSAGE OF A 4" DIA. SPHERE

- NOTE: WALL HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2015 IBC CODE



TYPICAL WALL SECTION N.T.S.

NOTES:

- NO TREES SHALL BE PLANTED WITHIN 10 FEET OF THE TOP OF THE RETAINING WALL.
- RETAINING WALLS SHALL ONLY BE CONSTRUCTED UNDER THE OBSERVATION OF A REGISTERED PROFESSIONAL ENGINEER AND A (NICET, WACEL, OR EQUIV.) CERTIFIED SOILS TECHNICIAN.
- ONE SOIL BORING SHALL BE REQUIRED EVERY ONE HUNDRED FEET ALONG THE ENTIRE LENGTH OF THE WALL. COPIES OF ALL BORING REPORTS SHALL BE PROVIDED TO THE HOWARD COUNTY INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
- THE REQUIRED BEARING PRESSURE BENEATH THE WALL SYSTEM SHALL BE VERIFIED IN THE FIELD BY A CERTIFIED SOILS TECHNICIAN. TESTING DOCUMENTATION MUST BE PROVIDED TO THE HOWARD COUNTY INSPECTOR PRIOR TO START OF CONSTRUCTION. THE REQUIRED BEARING TEST SHALL BE THE DYNAMIC CONE PENETROMETER TEST ASTM STP-399.
- THE SUITABILITY OF FILL MATERIAL SHALL BE CONFIRMED BY THE ON-SITE SOILS TECHNICIAN. EACH 8" LIFT MUST BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY AND THE TESTING REPORT SHALL BE MADE AVAILABLE TO THE HOWARD COUNTY INSPECTOR UPON COMPLETION OF CONSTRUCTION.
- WALLS SHALL NOT BE CONSTRUCTED ON UNCERTIFIED FILL MATERIALS.
- WALLS SHALL NOT BE CONSTRUCTED WITHIN A HOWARD CO. RIGHT-OF-WAY OR EASEMENT.

No AS-BUILT INFORMATION ON THIS SHEET

AS-BUILT CERTIFICATION FOR PSWM

HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS 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 ADEQUATELY STABILIZED TO PREVENT CLOGGING OF THE UNDERGROUND SWM FACILITY.

OWNER/DEVELOPER: **TPC RACING**
 MWLLC
 C/O MICHAEL LEVITAS
 8040 WASHINGTON BLVD.
 JESSUP, MD 20794
 (410) 799-7223
 TPCRACING@GMAIL.COM

NO.	REVISION	DATE

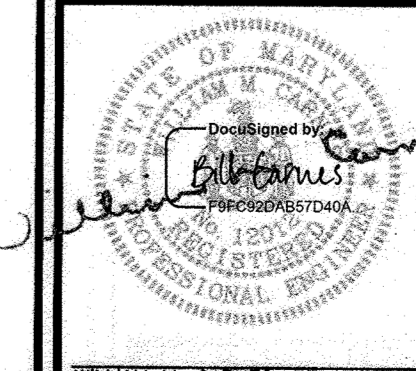
SITE DEVELOPMENT PLAN
 RETAINING WALL CONSTRUCTION DETAILS
TPC RACING
 7869 DORSEY RUN ROAD
 JESSUP, MD 20794
 L. 16140 / F. 00371

TAX MAP 43 GRID 22
 1ST ELECTION DISTRICT

ZONED: M-2
 PARCEL: 10B-6
 HOWARD COUNTY, MARYLAND

HILLIS-CARNES ENGINEERING ASSOCIATES

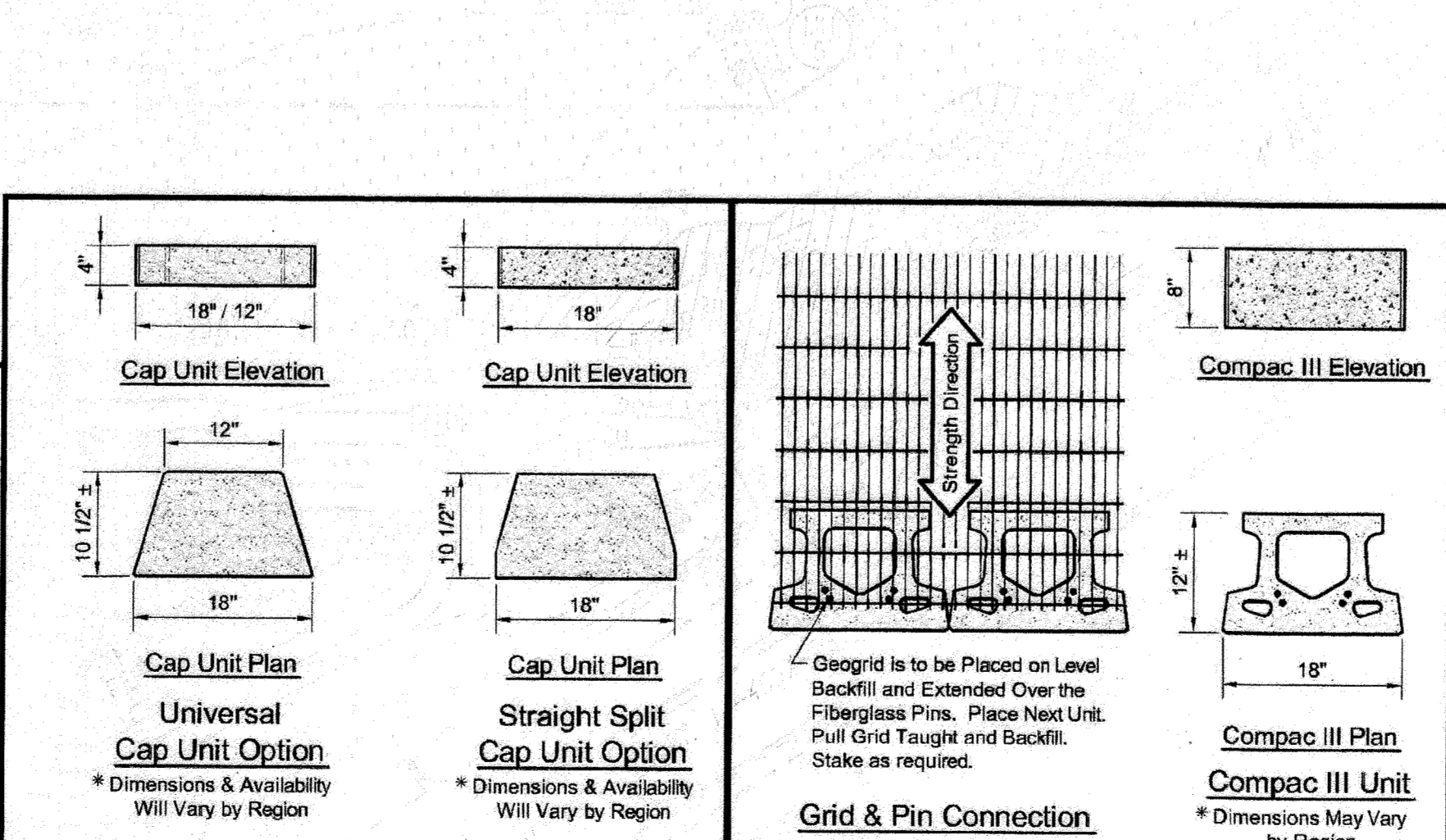
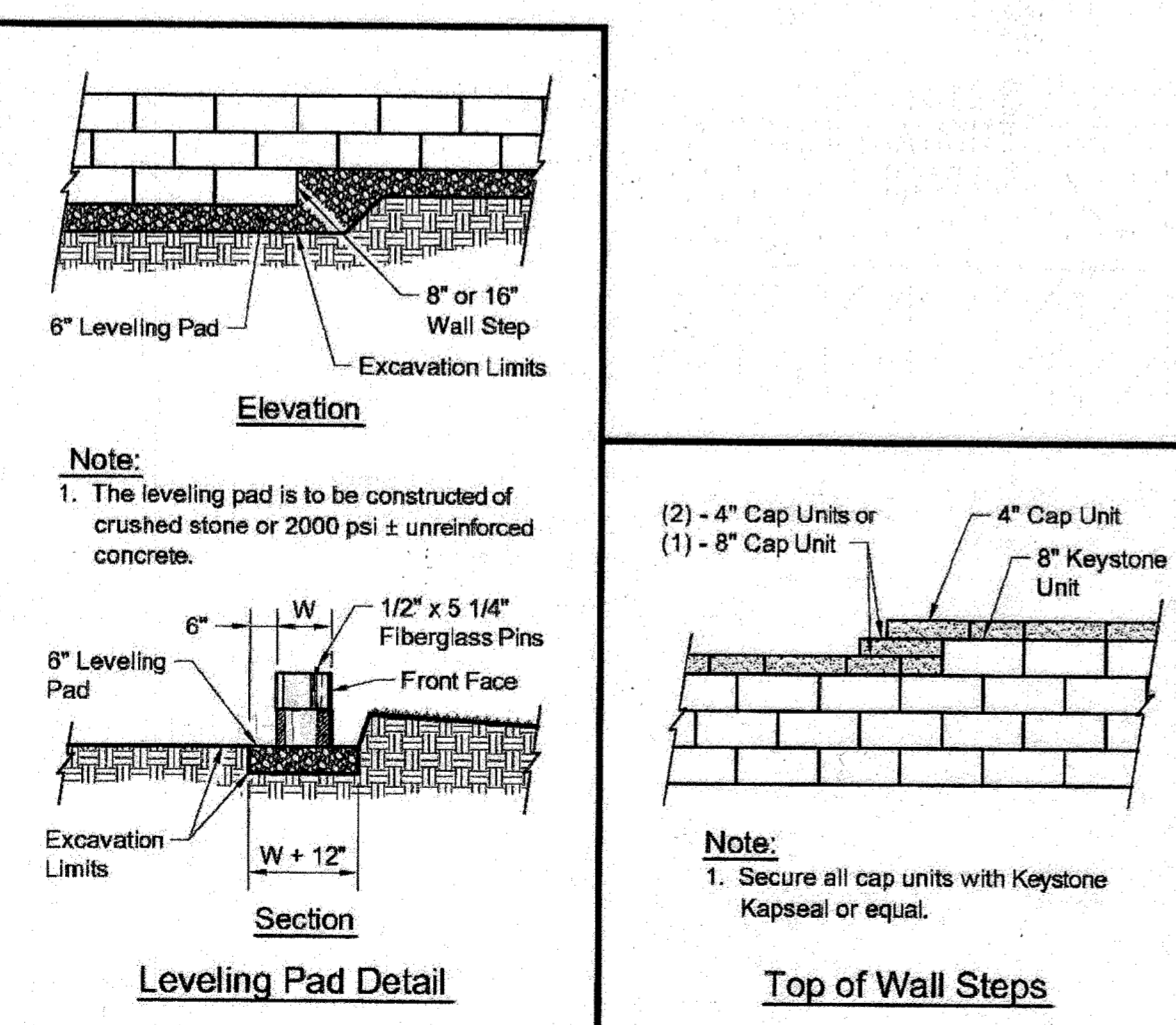
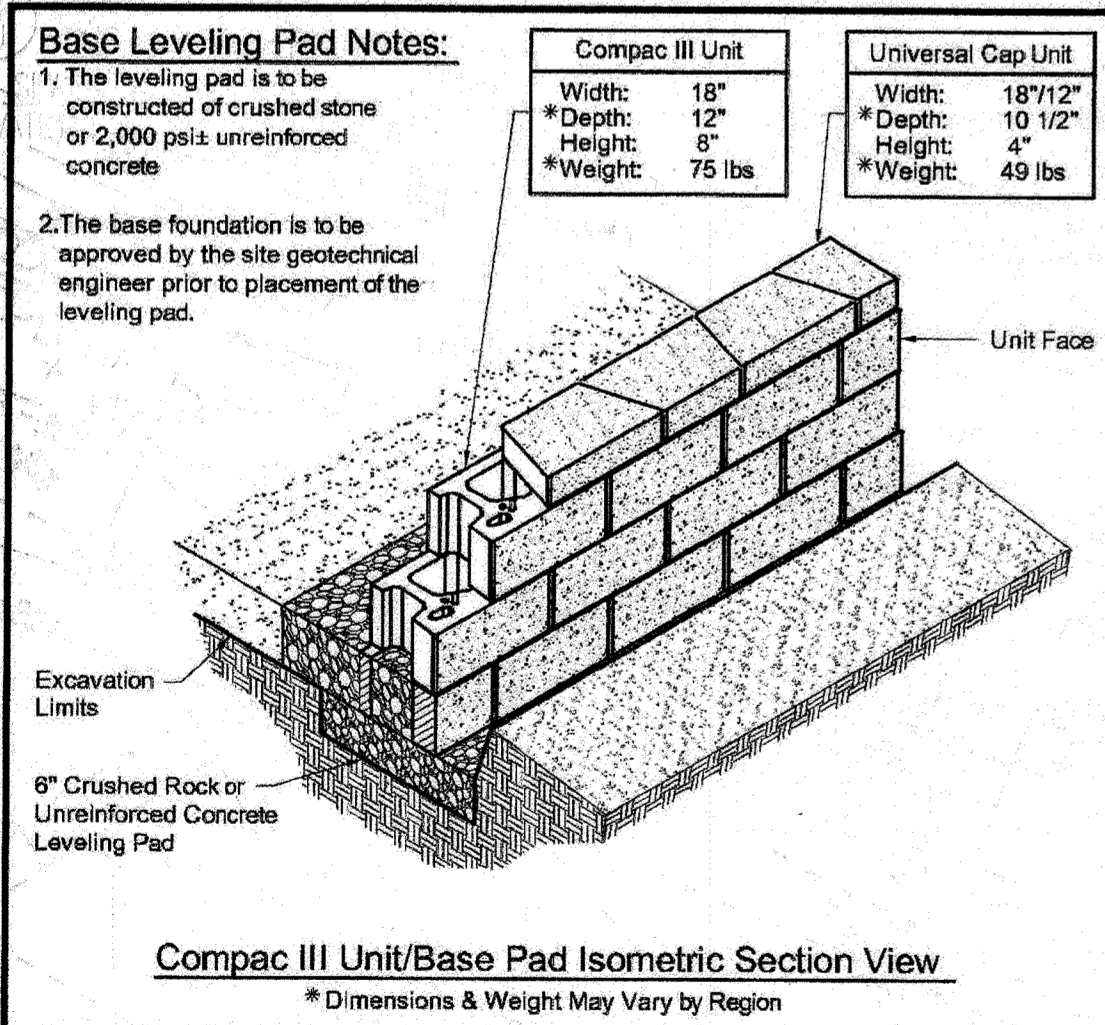
10975 Guilford Road, Suite A Annapolis Junction, Maryland
 Phone: (410) 880-4788 www.hcea.com Fax: (410) 880-4098



DESIGN BY: AM/LE
 DRAWN BY: AM
 CHECKED BY: HM
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 HCEA JOB NO.: 19790B

PROFESSIONAL CERTIFICATE
 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. 12012, EXPIRATION DATE 06-16-2022.

20 SHEET OF 22



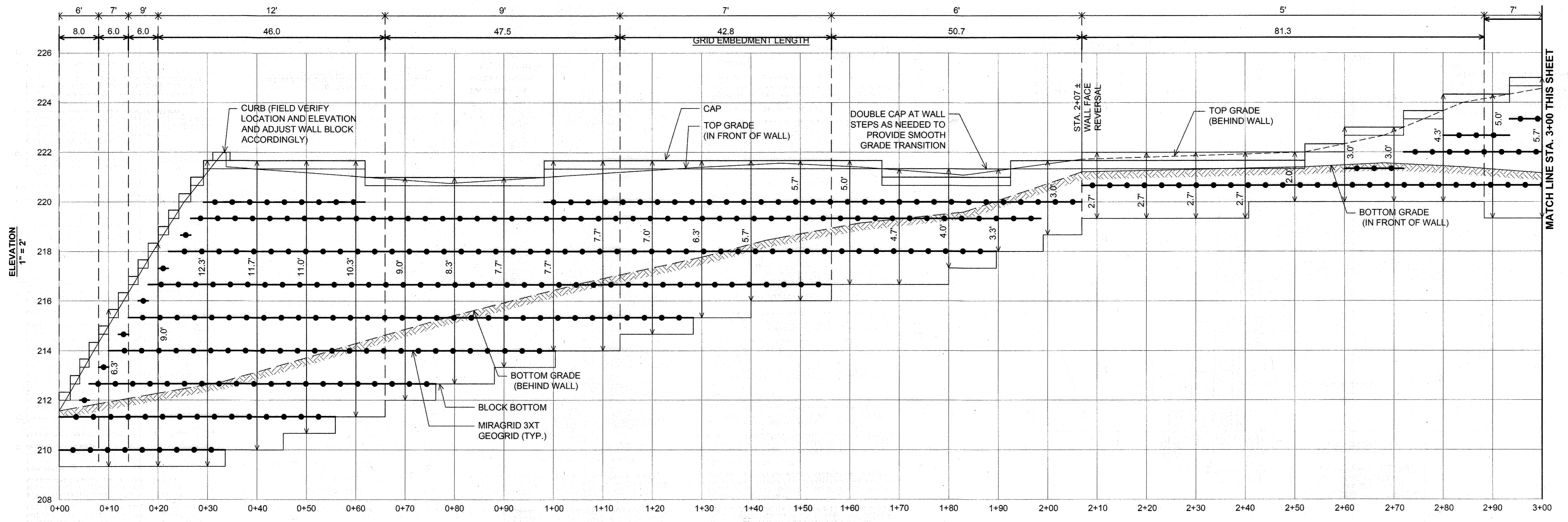
COMPAC III UNIT - STRAIGHT FACE DETAILS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Edmondson 3/30/2022
 CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

Ray Brown 3/30/2022
 CHIEF DIVISION OF LAND DEVELOPMENT DATE

 DIRECTOR DATE



WALL #1 ELEVATION
1" = 10'

NOTE:
FIELD CONFIRM FINAL TOP AND
BOTTOM WALL GRADES AND ADJUST
WALL BLOCK ACCORDINGLY.

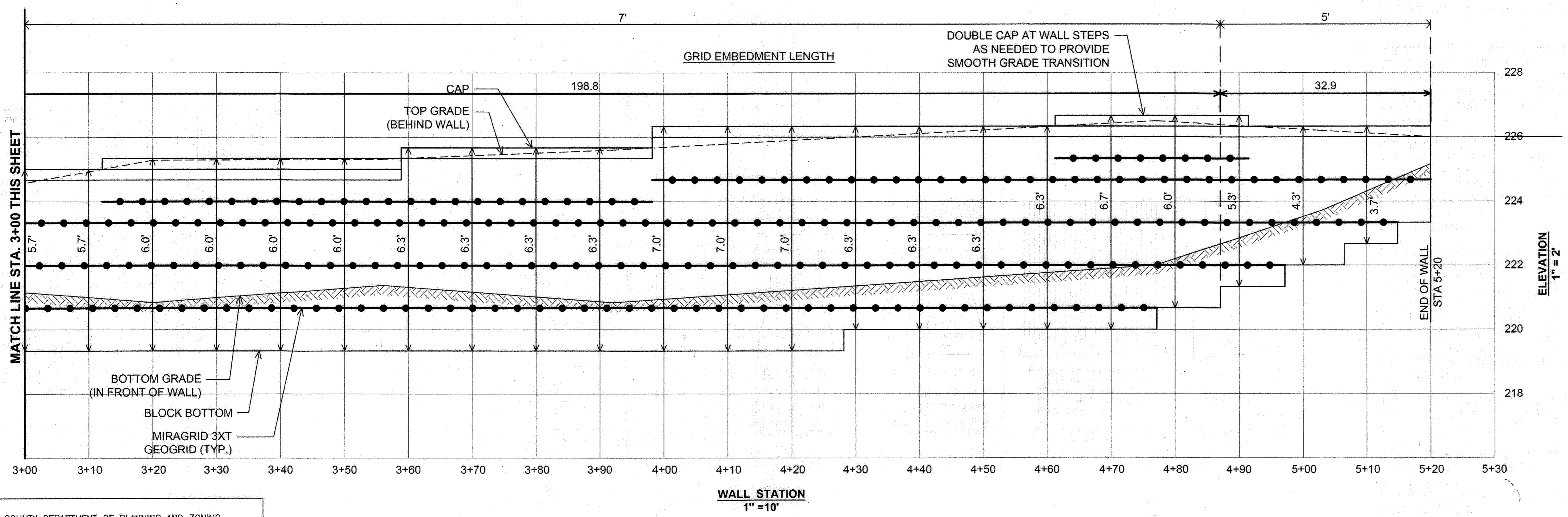
NO AS-BUILT INFORMATION ON THIS SHEET



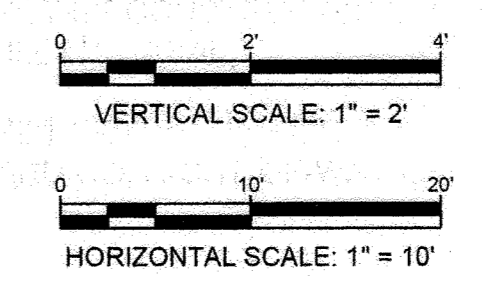
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I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN
WAS CONSTRUCTED AS SHOWN ON THE AS-BUILT PLANS AND
COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS
SUFFICIENTLY STABILIZED TO PREVENT CLOGGING OF THE
UNDERGROUND SWM FACILITY.
P.E. NAME: *Robert Harris* P.E. # 16193 DATE: 5-6-24

OWNER/DEVELOPER
MLW, LLC
C/O MICHAEL LEVITAS
8040 WASHINGTON BLVD.
JESSUP, MD 20794
(410) 789-7233
TPCRACING@GMAIL.COM

NO.	REVISION	DATE



WALL #1 ELEVATION
1" = 10'

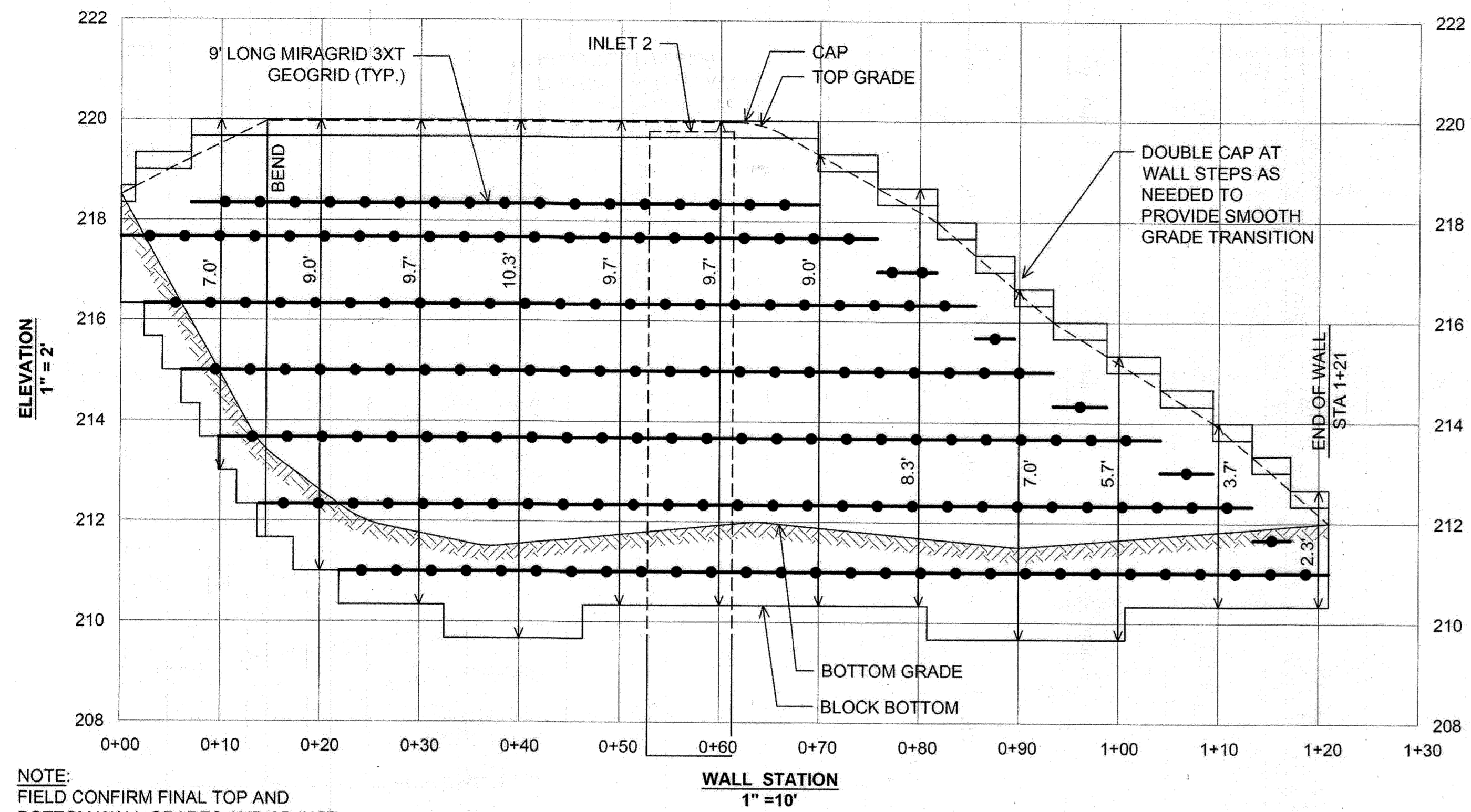


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Designated by: *Chad Edmondson* DATE: 3/30/2022
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 Designated by: *Ray Groman* DATE: 3/30/2022
 CHIEF DIVISION OF LAND DEVELOPMENT
 DIRECTOR DATE: 3/30/2022

SITE DEVELOPMENT PLAN
RETAINING WALL #1 ELEVATION
TPC RACING
7869 DORSEY RUN ROAD
JESSUP, MD 20794
L. 16140 / F. 00371
TAX MAP 43 GRID 22
1ST ELECTION DISTRICT
ZONED: M-2
PARCEL 108-B
HOWARD COUNTY, MARYLAND

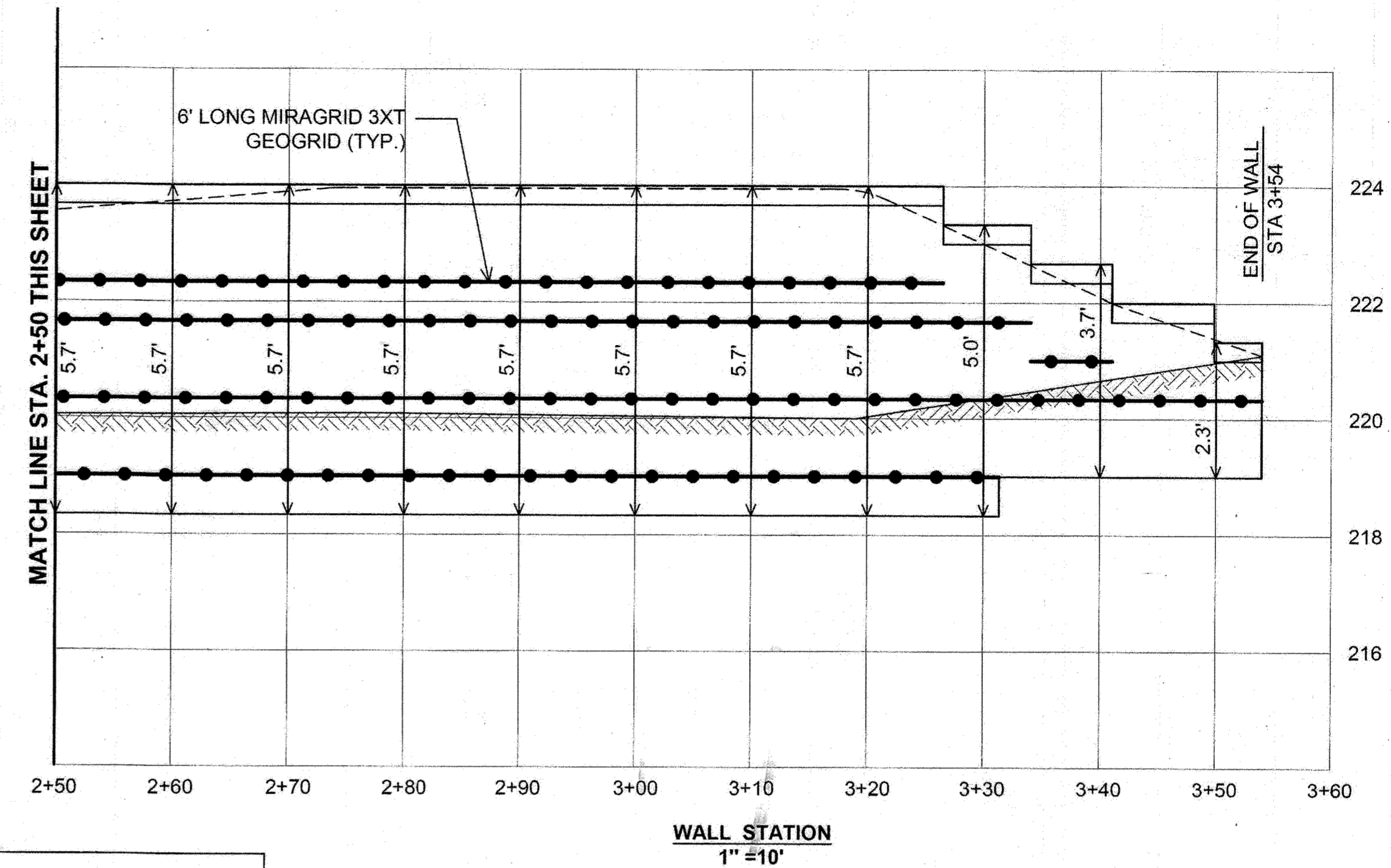
HILLIS-CARNES
ENGINEERING ASSOCIATES
10975 Guilford Road, Suite A Annapolis Junction, Maryland
Phone: (410) 880-4788 www.hcea.com Fax: (410) 880-4098

PROFESSIONAL CERTIFICATE
 DESIGN BY: AM/LE
 DRAWN BY: AM
 CHECKED BY: HM
 DATE: SEPTEMBER 2021
 SCALE: AS SHOWN
 HCEA JOB NO.: 19790B
 I HEREBY CERTIFY THAT THESE DOCUMENTS
 WERE PREPARED OR APPROVED BY ME, AND
 THAT I AM A FULLY LICENSED PROFESSIONAL
 ENGINEER UNDER THE LAWS OF THE STATE
 OF MARYLAND, LICENSE NO. 16193
 EXPIRATION DATE 06-15-2022
 21 SHEET OF 22



NOTE:
FIELD CONFIRM FINAL TOP AND
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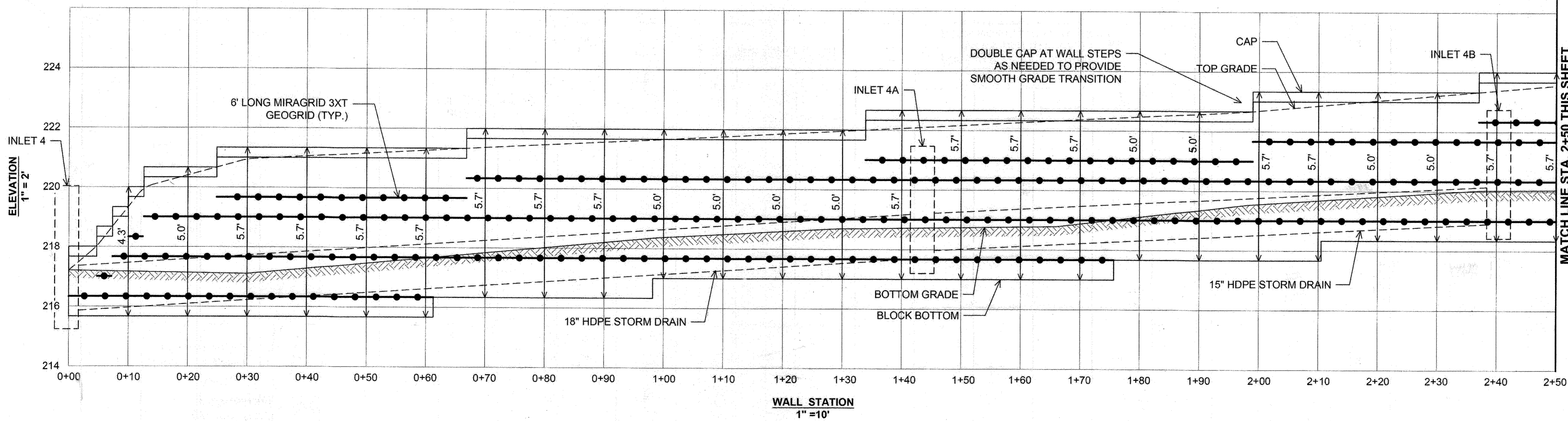
WALL #2 ELEVATION



WALL #3 ELEVATION

NOTE:
INSTALL INLET BOXES #2, #4A & #4B AND ASSOCIATED
PIPE DURING WALL CONSTRUCTION. BACKFILL AROUND
ENTIRE PERIMETER OF INLET BOX FOR FULL WALL
HEIGHT WITH A 2 FT. THICK WRAP OF COMPACTED
SOIL-CEMENT CONSISTING OF A RATIO OF 180 LBS. (2
BAGS) PORTLAND CEMENT THOROUGHLY MIXED WITH 1
CU. YD. OF TYPE SM SOIL AT 3% OVER OPTIMUM
MOISTURE. TRIM GEOGRIDS AT FACE OF INLET BOX AND
EMBED IN SOIL-CEMENT WITHIN 1 HOUR OF MIXING.

NO AS-BUILT INFORMATION ON THIS SHEET



WALL #3 ELEVATION



AS-BUILT CERTIFICATION FOR PSWM
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN
WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND
COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
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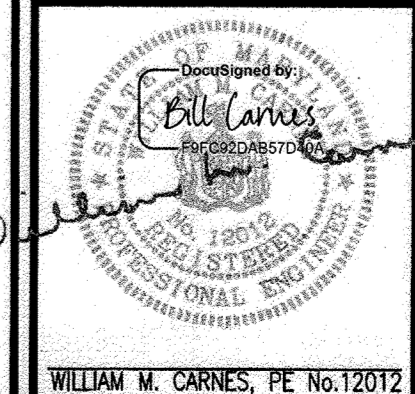
16193 5-6-24
P.E. # DATE

1	REVISED RETAINING WALL #2	4/2/21
NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
RETAINING WALL #1 ELEVATION
TPC RACING
7869 DORSEY RUN ROAD
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SCALE: AS SHOWN
HCEA JOB NO.: 19790B

22 SHEET OF 22

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Desiged by: *Chad Edmondson* 3/30/2022
CHIEF DEVELOPMENT ENGINEERING DIVISION DATE 3/30/2022
CHIEF DIVISION OF LAND DEVELOPMENT DATE 3/30/2022
DIRECTOR DATE

