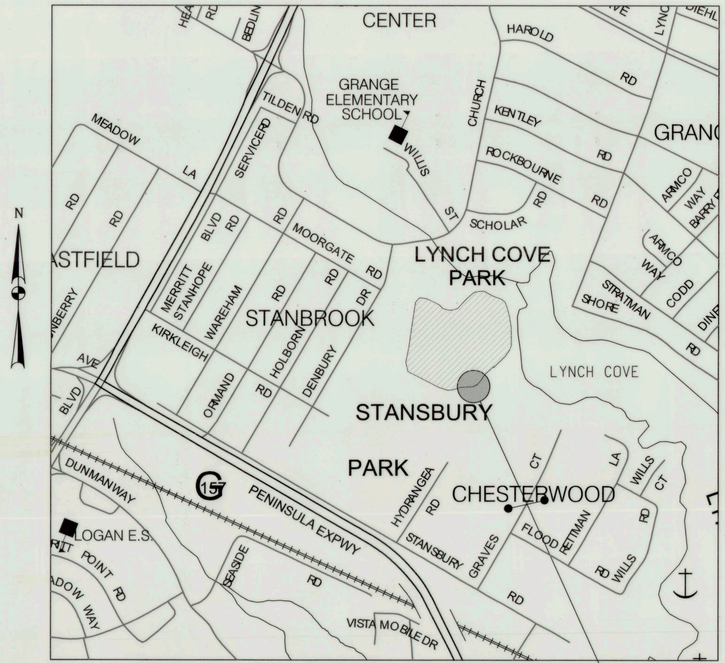
STANSBURY PARK – PARK RENOVATIONS

BALTIMORE COUNTY, MD

CONTRACT NO.: 23119 GXO



KEY PLAN

500' 0 500' 1000'

SCALE: 1"=500'

PROJECT LOCATION

INDEX OF SHEETS			
SHEET NO.	DRAWING NO.	SHEET DESIGNATION	DESCRIPTION
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3	2024-0050	C-01	EXISTING CONDITIONS PLAN
4	2024-0051	C-02	PAVEMENT DETAILS
5	2024-0052	C-03	GEOMETRY SHEET
6	2024-0053	C-04	SITE IMPROVEMENT PLAN
7	2024-0054	C-05	PAVEMENT REPAIR DETAILS – 1
8	2024-0055	C-06	PAVEMENT REPAIR DETAILS – 2
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10	2024-0057	C-08	PHASE 2 EROSION AND SEDIMENT CONTROL PLAN 1
11	2024-0058	C-09	PHASE 2 EROSION AND SEDIMENT CONTROL PLAN 2
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18	2024-0065	S-01	DEMOLITION PLAN AND ELEVATION
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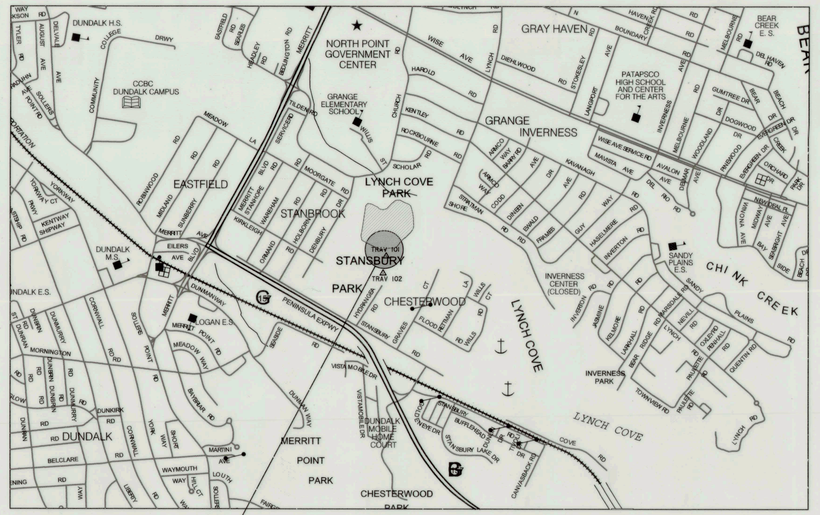
24	2024-0071	S-07	STRUCTURE DETAILS – 4
25	2024-0072	S-08	FLOATING DOCK PLAN SECTION AND DETAILS
26	2024-0073	S-09	STAIRS AND MISCELLANEOUS DETAILS
27	2024-0074	S-10	BENCH AND SLAB DETAILS
28	2024-0075	S-11	BORING AND DRIVE TEST
29	2024-0076	L-01	CRITICAL AREA MANAGEMENT PLAN

LIST OF STANDARDS AND CODES	
NO.	DESCRIPTION
1	BALTIMORE COUNTY BUILDING CODE – IBC 2015
2	BALTIMORE COUNTY STANDARD NO. G-9 – CONCRETE STAIRS
3	BALTIMORE COUNTY STANDARD NO. G-10 – PIPE RAILING FOR CONCRETE STAIRS
4	BALTIMORE COUNTY STANDARD NO. R-19 – STANDARD 4 FOOT SIDEWALK
5	BALTIMORE COUNTY STANDARD NO. R-36B – TRUNCATED PEDESTRIAN RAMP
6	MDOT SHA STANDARD NO. MD 634.04 – PRECAST CONCRETE WHEEL STOPS



LOCATION MAP

1000' 0 1000' 2000'

SCALE: 1"=1000'

PROJECT LOCATION
STANSBURY PARK

BENCHMARK INFORMATION:
TRAVERSE POINT 1 (R&C): 1,453,735.1530 E, 580,593.8982 N, 11.37 Z
TRAVERSE POINT 2 (R&C): 1,453,690.4903 E, 580,349.0911 N, 26.75 Z

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway, Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SHEET NOS. AND OTHER CLARIFICATIONS — TIM MCSHANE
01, 18-28

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.
MD LICENSE NO. 17262 EXPIRATION DATE: 02/24/2025

STATE OF MARYLAND · TIMOTHY EUGENE MCSHANE · No. 17262 · PROFESSIONAL ENGINEER

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway, Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SHEET NOS. AND OTHER CLARIFICATIONS — WAHID HASSAN
02-08

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.
MD LICENSE NO. 59884 EXPIRATION DATE: 09/11/2024

STATE OF MARYLAND · WAHID HASSAN · 59884 · PROFESSIONAL ENGINEER

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway, Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SHEET NOS. AND OTHER CLARIFICATIONS — ANKUR PATEL
09-17, 29

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.
MD LICENSE NO. 52478 EXPIRATION DATE: 06/03/2026

STATE OF MARYLAND · ANKUR PATEL · No. 52748 · PROFESSIONAL ENGINEER

SEDIMENT CONTROL

OWNER'S/DEVELOPER'S CERTIFICATION:

I/We hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in this construction project will have a Certificate of Attendance at a Maryland Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I/We also certify that the site will be inspected at the end of each working day, and that any needed maintenance will be completed so as to insure that all sediment control practices are left in operational condition. I/We authorize the right of entry for periodic on-site evaluation by the Baltimore County Soil Conservation District Board of Supervisors or their authorized agents.

GM Doran — 06/03/2024
Signature Owner/Developer — Date
Gregory M. Doran — Chief of Capital Construction
Print Name — Title

CONSULTANT'S CERTIFICATION:

I certify that this plan of erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site, and this plan was prepared in accordance with the requirements of the Baltimore County Soil Conservation District and the current State of Maryland Specifications for Soil Erosion and Sediment Control. I have reviewed this erosion and sediment control plan with the owner/developer.

05/31/2024
Signature — Date
ANKUR PATEL — 52748
Print Name — MD License Number

OWNER'S/DEVELOPER'S CERTIFICATION - GRADING:

I/We certify that all grading on this site will be done in accordance with the current grading requirements as set forth by the Baltimore County Department of Environmental Protection and Sustainability and with the requirements specified in Article 33, Title 5 of the Baltimore County Code.

GM Doran — Chief of Capital Construction — 06/03/2024
Signature of Owner/Developer — Title — Date
Gregory M. Doran
Print Name

ALL WORK ON THIS PROJECT SHALL CONFORM TO:
THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS, DATED JANUARY 2000 AS AMENDED BY CONSOLIDATED ADDENDUM 3 DATED FEBRUARY 2007 AND THE NEW GENERAL PROVISIONS (GP) AND TERMS AND CONDITIONS (TC) DATED OCTOBER 11, 2013 AND STANDARD DETAILS FOR CONSTRUCTION, DATED APRIL 2007 UNLESS OTHERWISE NOTED, AND SPECIAL PROVISIONS.

TOTAL DISTURBED AREA: 15,921 SF/0.37 AC.

BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY
APPROVED FOR GRADING
06.18.24
Date
STORMWATER MANAGEMENT PERMIT NOT REQUIRED

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL 6-13-24
Date
Dave Bachman — 090-4435-24
DISTRICT OFFICIAL — Plan No.
Technical Review for the District by:
Sara C. Dulina
This plan approval will expire three (3) years from the approval date.

100% SUBMITTAL
MAY 2024

ESC 1 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

SEAL — STATE OF MARYLAND · TIMOTHY EUGENE MCSHANE · No. 17262 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17262, EXPIRATION DATE 02/24/2025
ENGINEER: TIM MCSHANE
AS-BUILT PER RECORD PRINT
BY: DATE:
DGN BY: KBJ
DWN BY: KBJ
CHKD BY: TEM

AS-BUILT / REVISION | BY | DATE | P.W.A. NO. | KEY SHEET | POSITION SHT
R.O.W NO. | ESW | 14SE22
CONTRACT COMPLETION BOX

DRAWING SCALE: PLAN SCALE: AS SHOWN; PROFILE SCALE:

PROPERTY MANAGEMENT: APPROVED BY: GM Doran PROPERTY MANAGER; DATE:

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

TITLE SHEET

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
TS-01	23119 GXO
JOB ORDER NUMBER	
SHEET 1 OF 29	
DRAWING NUMBER	2024-0048
FILE NO.: 9	REV. VOLUME

BALTIMORE COUNTY MARYLAND

5/31/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury Pler\Drawings\CADD\Working\19N-T001_StansburyPark.dgn
DWG. FILENAME:

NOTES

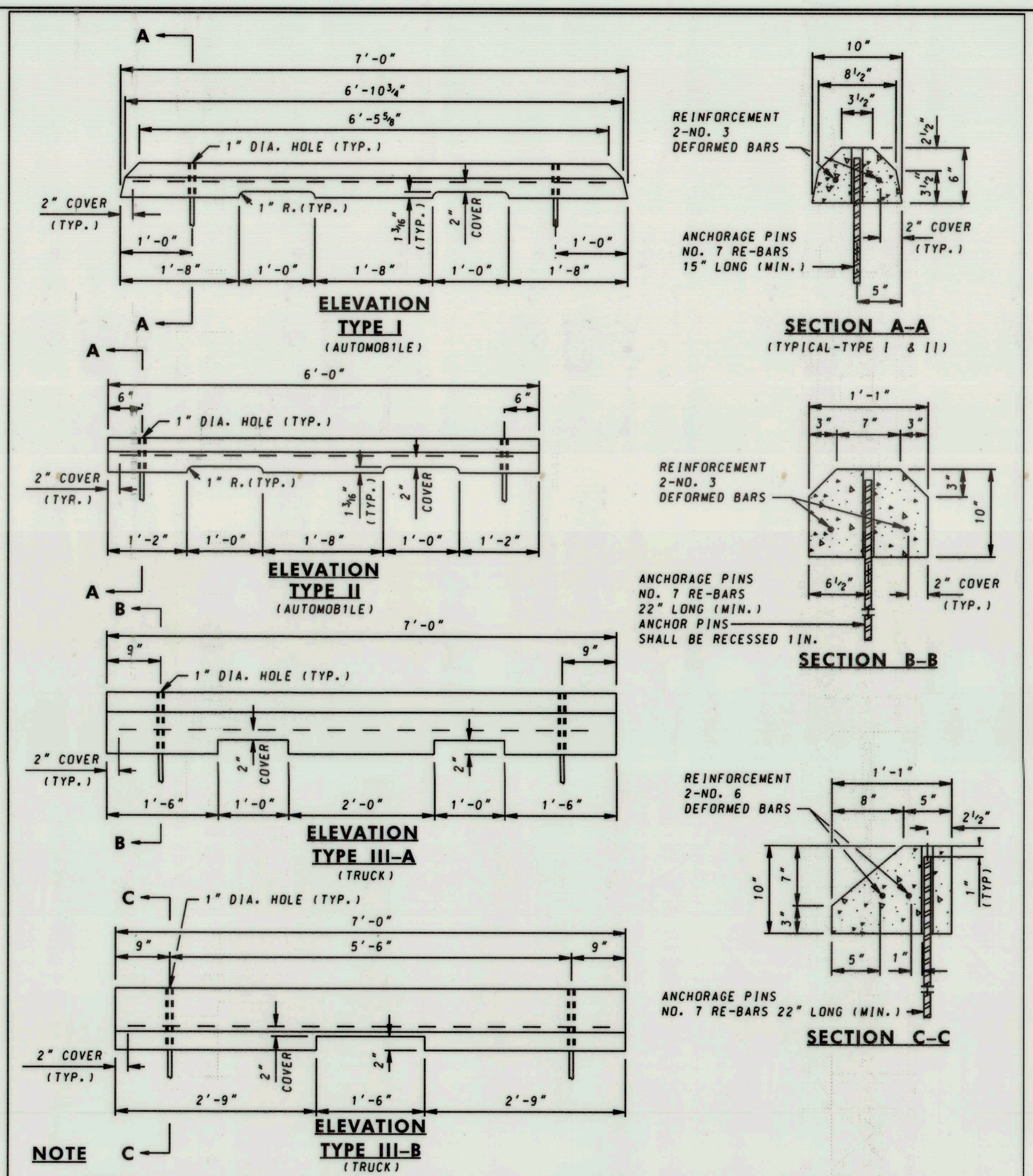
1. ...K SHOWN IS WITHIN BALTIMORE COUNTY PROPERTY.
2. THE SEDIMENT CONTROL INSPECTOR RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES.
3. NO CLEARING, GRUBBING OR GRADING MAY COMMENCE FOR THE PROJECT UNTIL THE LIMITS ARE STAKED IN THE FIELD, SEDIMENT CONTROLS ARE INSTALLED, AND BOTH ARE APPROVED BY THE SEDIMENT CONTROL INSPECTOR. NO CLEARING WILL BE ALLOWED BEYOND THE PROJECT LIMITS, AND ANY ITEMS DISTURBED BEYOND THE PROJECT LIMITS WILL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
4. ROADS SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE AT ALL TIMES AND ADEQUATE MEANS SHALL BE PROVIDED TO CLEAN TRUCKS AND OTHER EQUIPMENT USING THE ROADS. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROADS MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING.
5. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
6. ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAD 83 (2011) HORIZONTAL AND NAVD 88 VERTICAL DATUMS.
7. TEMPORARY TRAFFIC CONTROL AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE LATEST MUTCD AND MDOT SHA STANDARDS.
8. WORKING HOURS BETWEEN 7:00AM TO 5:00PM MONDAY THROUGH FRIDAY.
9. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS, DATED JANUARY 2000 AS AMENDED BY CONSOLIDATED ADDENDUM 3 DATED FEBRUARY 2007 AND THE NEW GENERAL PROVISIONS (GP) AND TERMS AND CONDITIONS (TC) DATED OCTOBER 11, 2013, AND STANDARD DETAILS FOR CONSTRUCTION, DATED APRIL 2007 UNLESS OTHERWISE NOTED, SPECIAL PROVISIONS, AND BUILDING CODE FOR BALTIMORE COUNTY IBC, 2015 EDITION
10. ADA COMPLIANCE: THE DESIGN OF THIS PROJECT HAS INCORPORATED FACILITIES TO ACCOMMODATE PERSONS WITH DISABILITIES IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS.
11. GEOMETRIC DESIGN CRITERIA: THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH THE 2018 PUBLICATION OF AMERICAN ASSOCIATE OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS."
12. REPAIRS TO UTILITIES OR PRIVATE PROPERTY DAMAGE AS A RESULT OF CONTRACTOR NEGLIGENCE OR METHOD OF OPERATION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AND AT NO ADDITIONAL COST TO THE COUNTY.

GENERAL NOTES FOR UTILITIES

1. THE CONTRACTOR SHALL SUBMIT A "MISS UTILITY" TICKET TO BALTIMORE COUNTY AT LEAST 72 HOURS IN ADVANCE OF ANY EXCAVATION WORK.
2. ADJUSTMENT, CONSTRUCTION AND /OR RELOCATION OF UTILITIES SHALL BE IN ACCORDANCE WITH BALTIMORE COUNTY SPECIFICATIONS, UNLESS NOTED OTHERWISE IN THE PLANS.

GENERAL NOTES FOR STRUCTURAL

1. CODES AND SPECIFICATIONS:
   ALL WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE (IBC-2015); NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS-2018); AND THE BALTIMORE COUNTY LOCAL BUILDING DESIGN REQUIREMENTS.
2. DESIGN: SERVICE LOAD DESIGN METHOD
   DESIGN LIVE LOAD: 100 PSF
   SNOW LOAD: 30 PSF
   WIND PRESSURE ON STRUCTURE: 33 PSF
3. TIMBER:
   TIMBER PILES, JOISTS, SUPPORT BEAMS, AND RAILINGS SHALL USE SOUTHERN PINE - SELECT STRUCTURAL ALL DECKING BOARDS SHALL BE SOUTHERN PINE, NO. 1 GRADE.
   ALL TIMBER SHALL BE PRESSURE TREATED AS PER SPECIFICATION.
4. CONNECTORS:
   ALL BOLTS SHALL BE DOME HEAD TIMBER BOLTS CONFORMING TO ASTM A307, ALL WASHERS SHALL BE 1/4" DOCK WASHERS.
   NUTS SHALL BE HEAVY HEX TYPE UNLESS NOTED OTHERWISE.
   ALL NAILS SHALL BE RING SHANK OR ANNULAR NAILS AND IN ACCORDANCE WITH THE SIZES GIVEN IN THE CONTRACT DOCUMENTS.
   ALL HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
5. CONCRETE:
   COMPRESSIVE STRENGTH OF CONCRETE FOOTING AT 28 DAYS SHALL BE 3500 PSI. (MSHA MIX NO. 3) CONCRETE (CAST-IN-PLACE) DESIGN AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF ACI 318. CONTRACTOR SHALL SUBMIT MIX DESIGN ACCOMPANIED BY APPROPRIATE GRAPHS AND BACKGROUND DATA FOR APPROVAL. MIX DESIGN SHALL INDICATE 7 AND 28 DAYS STRENGTHS, CEMENT CONTENT, AIR CONTENT, WATER-CEMENT RATIO, AMOUT OF AND FINE COARSE AGGREGATES, AND ADMIXTURES.
6. THE TIMBER PILES SHALL HAVE A MINIMUM ALLOWABLE SERVICE LOAD CAPACITY OF 41 KIPS.
7. REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60 WITH A YIELD STRENGTH FOR DESIGN OF Fy = 60,000 PSI.
8. ALL SPLICES NOT SHOWN SHALL BE LAPPED AS PER BAR LAP CHARTS.
9. REINFORCING STEEL SHALL BE EPOXY COATED WHEN NOTED WITH AN 'EP' IN THE PLANS.
10. MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2" EXCEPT AS NOTED OTHERWISE ON THE PLANS.
11. EXISTING STRUCTURES: ALL DIMENSIONS AFFECTED BY THE GEOMETRY AND /OR LOCATION OF THE EXISTING STRUCTURES SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY MATERIAL IS ORDERED OR FABRICATED, OR BEFORE CONSTRUCTION BEGINS.



NOTE
1. PRECAST CONCRETE WHEEL STOPS SHALL BE LOCATED AS SHOWN ON THE PLANS. THEN SECURED IN PLACE WITH TWO (2) NO. 7 REINFORCEMENT BARS PER WHEEL STOP.
2. COST OF THE REINFORCEMENT BARS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE BID PER EACH FOR THE WHEEL STOPS.

MD STD. 634.04

ABBREVIATIONS

AASHTO – American Association of State Highway and Transportation Officials
Ac. – Acre
ACI – American Concrete Institute
ACP – Asbestos Cement Pipe
ADA – Americans With Disabilities Act
ADAAG – Americans with Disabilities Act Accessibility Guidelines
A.D.T. – Average Daily Traffic
A.I.S.C. – American Institute of Steel Construction
Alt. – Alternate
ANSI – American National Standards Institute
A.S.H.R.A.E. –American Society of Heating, Refrigeration & Air-Conditioning Engineers
A.S.L.A. – American Society of Landscape Architects
A.S.M.E. – American Society of Mechanical Engineers
A.S.T.M. – American Society for Testing and Materials
A.T.S.S.A. – American Traffic Safety Services Association, publishers of MUTCD
AT&T – American Telephone & Telegraph
A.W.W.A. – American Water Works Association
B&O – Baltimore and Ohio Railroad (Obselete), now CSX Corporation.
B/L – Base Line
BCBEC – Baltimore County Bureau of Engineering and Construction
BCCMP (or BCCMPA) – Bituminous Coated Corrugated Metal Pipe (or pipe arch)
BCD – Baltimore County Datum
BCMD – Baltimore County Metropolitan District Grid System
Beg. – Beginning
BGE – Baltimore Gas and Electric Company
Bit. – Bituminous
B.M. – Benchmark
C&P – Chesapeake and Potomac, later known as Bell Atlantic
C/L – Center Line
CAD – Computer-aided Drafting. Also see CADD
CADD – Computer Aided Design and Drafting
c.f.s. – Cubic Feet per Second
CIP – Cast Iron Pipe
C.I.S.P.X. – Cast Iron Soil Pipe (Extra Strength)
CMP – Corrugated Metal Pipe
COMAR – Code of Maryland Regulations
Comb. – Combination
Comcast – Comcast Cablevision
Conc. – Concrete
Conn. – Connection or Connector
Constr. – Construction
C.P. – Center Point
CRSI – Concrete Reinforcing Steel Institute
C.Y. – Cubic Yards
DEPRM – Baltimore County Department of Environmental Protection and Resource Management
D.H.V. – Design Hourly Volume
Dia. – Diameter
DIP – Ductile Iron Pipe
Ea. – Each
E.B.R. – East Bound Roadway
Elev. – Elevation
Engr. – Engineer
Entr. – Entrance
Est. – Estimate, Estimated
Excav. – Excavation
Exist. – Existing
FEMA – Federal Emergency Management Agency
FIRM – Flood Insurance Rate Map
FHWA – Federal Highway Administration
F.P.S. – Feet Per Second
Ft. – Feet
Ga. – Gauge
Gal. – Gallons
GDBF – AASHTO's publication, Guide for the Development of Bicycle Facilities
G.I. – Galvanized Iron
GIS – Geographic Information System
GPAD – Gallons Per Acre Per Day
GPCD – Gallons Per Capita Per Day
GPM – Gallons Per Minute
GPS – Global Positioning System
H-20 – Truck loading standard for highways
HS-20 – Truck loading standard for highways
HS-27 – Truck loading standard for highways (current)
HDPE – High density polyethylene
HERCCP – Horizontal Elliptical Reinforced Cement Concrete Pipe
Horiz. – Horizontal
Hr. – Hour
IES – Illuminating Engineers Society
In. – Inch
Inv. – Invert
ITE – Institute of Transportation Engineer
Lbs. – Pounds
L.F. – Linear Feet
L.S. – Lump Sum
Lt. – Left
Max. – Maximum
MCS – Maryland Coordinate System, North American Datum 1983 (1991 [or later])
M.D. – Minimum Depth
MDE – Maryland Department of Environment
MDOT – Maryland Department of Transportation
MdSHA, MSHA – Maryland State Highway Administration
MH – Manhole
Mi. – Mile
Min. – Minimum
Mod. – Modified
Mon. – Monument
MOSHA – Maryland Occupational Safety and Health Administration
MTA – Maryland Transit Administration
M.U.T.C.D. – Manual on Uniform Traffic Control Devices
NAVD 88 – North American Vertical Datum of 1988
N.G.S. – National Geodetic Survey
No. – Number
P.C., P.T. – Point of Curvature, Point of tangency
P.C.C. – Point of compound curvature
P.C.C.P. – Prestressed Concrete Cylinder Pipe
PCRR – Penn Central Railroad (Obsolete)
P.I. – Point of Intersection
P.O.C. – Point on Curve
P.O.T. – Point on Tangent
P.R.C. – Point of Reverse Curvature
Prop. – Proposed
P.V.C., P.V.I., P.V.T., P.V.R.C., P.V.C.C. – Point of Vertical Curve, Point of Vertical Intersection, Point of Vertical Tangent, Point of Vertical Reverse Curve, Point of Vertical Compound Curve
Pvmt. – Pavement
R.C.C. – Reinforced Cement Concrete
R.C.C.P. – Reinforced Cement Concrete Pipe
R.C.P. – Reinforced Concrete Pipe
R.C.S.P. – Reinforced Concrete Sewer Pipe
Rd. – Road
Reinf. – Reinforced
Reloc. – Relocated
Rev. – Revised, Revision
Rt. – Right
RW – Right-of-Way
S.D.D. – Surface Drain Ditch
S.F. – Square feet
SHA – State Highway Administration, MdSHA
St. – Street
Sta. – Station
Std. – Standard
Str., Struc., Struct. – Structure
S.E. – Superelevation
Surf. – Surface
Surv. – Survey
S.Y. – Square Yards
Tc – Time of Concentration (Hydrology)
Temp. – Temporary
T.P. – Turning Point
Trans. – Transition
Trav. – Traverse
Typ. – Typical
U.S.C.&G.S. – United States Coast & Geodetic Survey
USGS – United States Geological Survey

CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER
ELECTRICAL HAND BOX – SIGNALS (H.B.)
FLOW LINE
STATE, COUNTY OR CITY LINES
PROPOSED TRAFFIC BARRIER
EXISTING TRAFFIC BARRIER
PROPOSED FENCE LINE
EXISTING FENCE LINE
RIGHT OF WAY LINE
EXISTING ROADWAY
RAILROAD
BASE LINE OR SURVEY LINE
FIRE HYDRANT
HISTORIC BOUNDARY
WATERS OF THE U.S.
EXISTING GAS
EXISTING TELEPHONE
EXISTING ELECTRIC
EXISTING WATER
EXISTING FIBER OPTICS
PROPOSED PIPE / CULVERT
EXISTING PIPE / CULVERT
EXISTING DROP INLET
UTILITY POLE
WETLAND
WETLAND BUFFER
WATERS OF THE U.S.
HEDGE /TREE LINE
BUSH /TREE
CONIFEROUS TREE
GROUND ELEVATION
GRADE ELEVATION
SOIL BORING LOCATION

BAI BRUDIS & ASSOCIATES, INC.
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Phone 410-884-3607
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Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Ballman 6-13-24
Date

ESC 2 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

SEAL: STATE OF MARYLAND WAHID HASSAN 59884 PROFESSIONAL ENGINEER	PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	PROPERTY MANAGEMENT
	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. 59884, EXPIRATION DATE 09/11/2024	CONTRACT COMPLETION BOX			R.O.W NO.	ESW	14SE22	PLAN SCALE: N.T.S. PROFILE SCALE:	APPROVED BY: PROPERTY MANAGER DATE:
	ENGINEER: WAHID HASSAN; DGN BY: KBJ; DWN BY: KBJ; CHKD BY: WH	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
	AS-BUILT PER RECORD PRINT	REVIEWED BY:							
	BY: DATE:	DATE REVIEWED:							

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

GENERAL NOTES AND ABBREVIATIONS

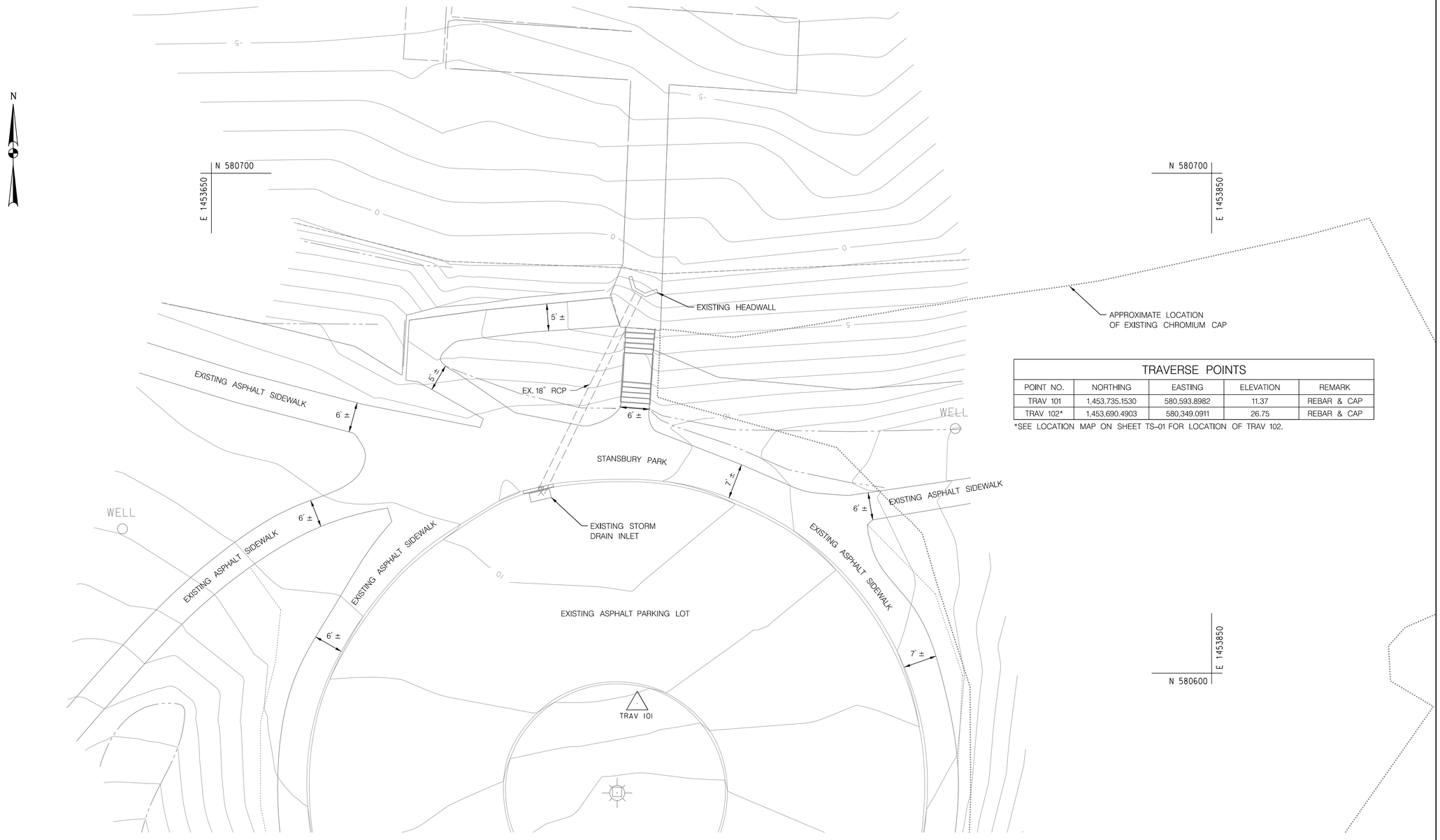
SUBDIVISION: STANBROOK

ELECTION DIST. NO.: 12C7

SHEET DESIGNATION	CONTRACT NUMBER
GN-01	23119 GXO
	JOB ORDER NUMBER
BALTIMORE COUNTY MARYLAND	SHEET 2 OF 29
	DRAWING NUMBER 2024-0049
	FILE NO.: 9

DWG. FILENAME:

6/6/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-StansburyPier\Drawings\CADD\Working\GN-0000_StansburyPark.dgn



TRAVERSE POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	REMARK
TRAV 101	1,453,735.1530	580,593.8982	11.37	REBAR & CAP
TRAV 102*	1,453,690.4903	580,349.0911	26.75	REBAR & CAP

*SEE LOCATION MAP ON SHEET TS-01 FOR LOCATION OF TRAV 102.

PLAN

SCALE: 1" = 10'

10' 0 10' 20'
SCALE: 1" = 10'

NOTE: NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SEAL — STATE OF MARYLAND · WAHID HASSAN · 59884 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 59884 , EXPIRATION DATE 09/11/2024 .

ENGINEER: WAHID HASSAN

AS-BUILT PER RECORD PRINT
BY:
DATE:

DGN BY: KBJ
DWN BY: KBJ
CHKD BY: WH

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT
			R.O.W NO.	ESW	14SE22
CONTRACT COMPLETION BOX					

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE: 1"=10'
PROFILE SCALE:

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

STANSBURY PARK - PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

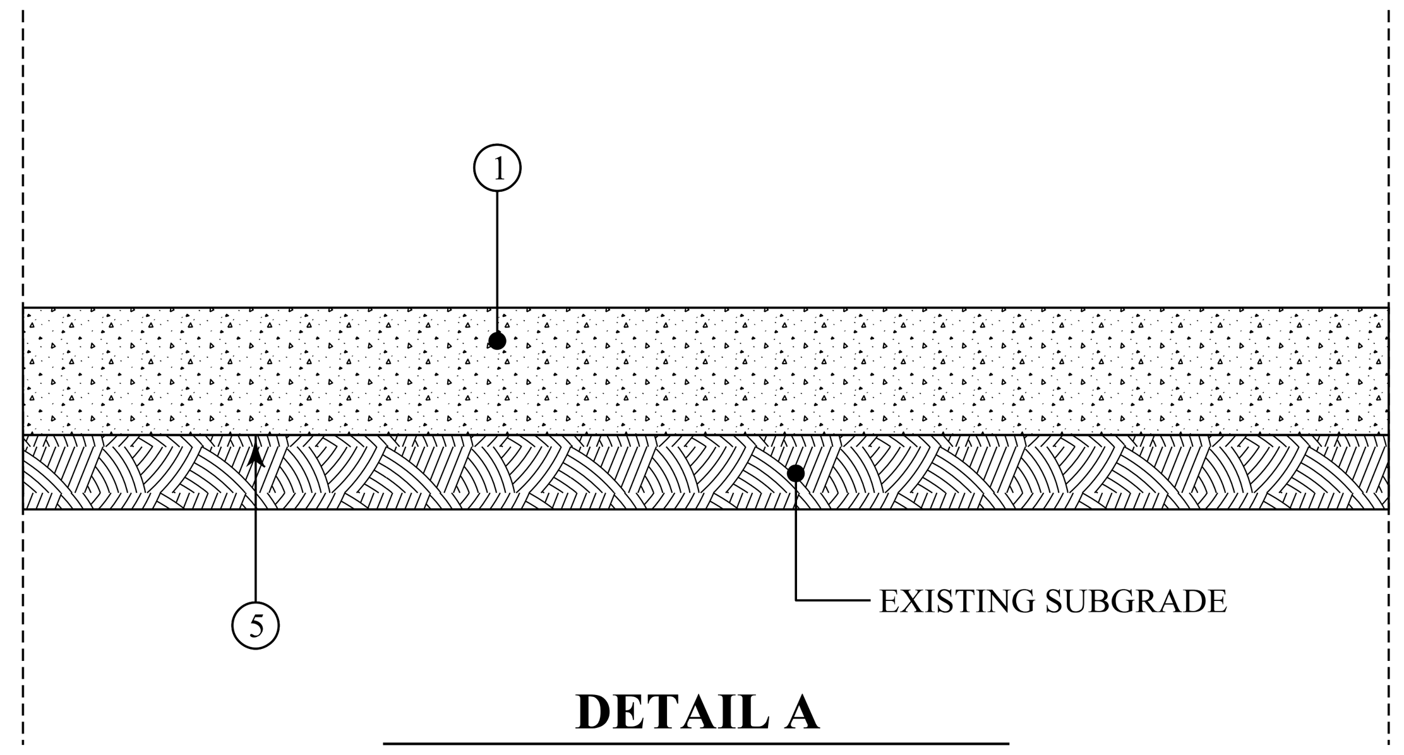
EXISTING CONDITIONS PLAN

SUBDIVISION: **STANBROOK**

ELECTION DIST. NO.: **12C7**

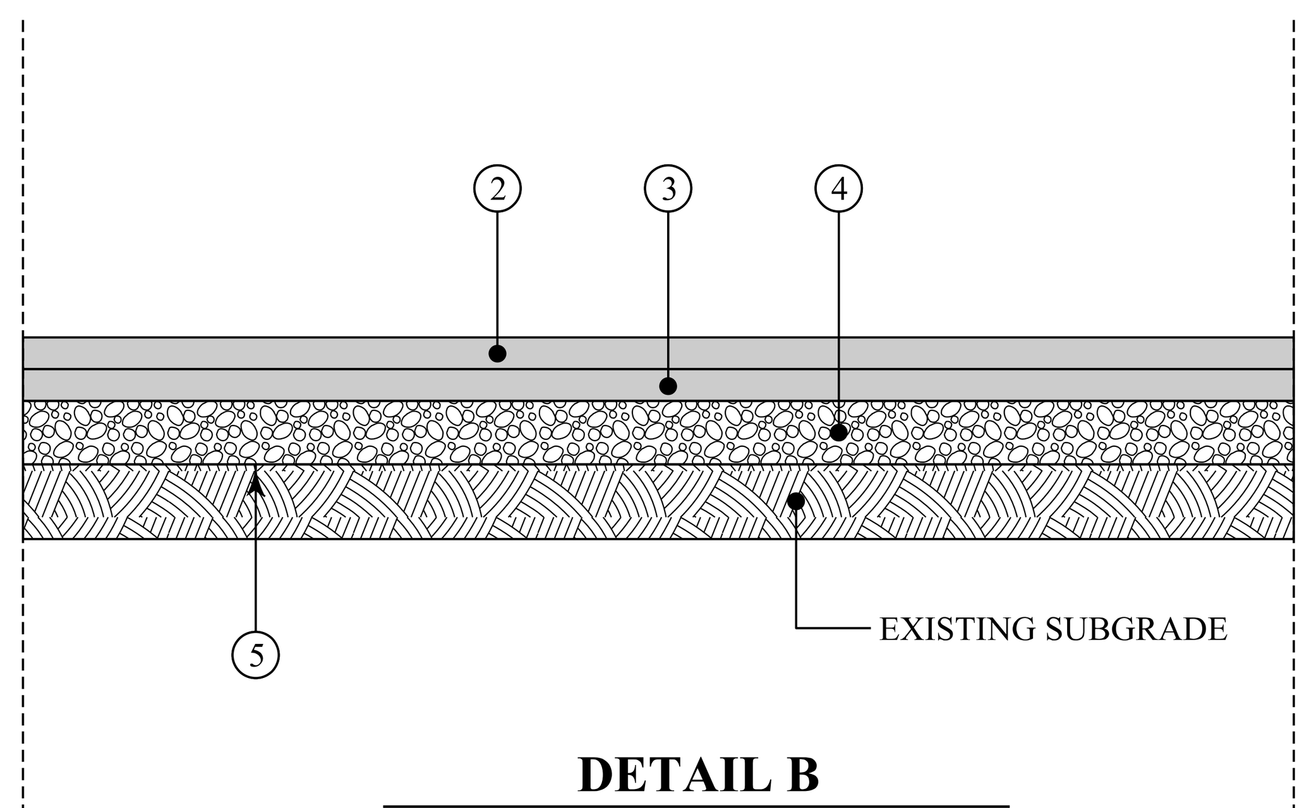
SHEET DESIGNATION	CONTRACT NUMBER
C-01	23119 GXO
	JOB ORDER NUMBER
SHEET 3 OF 29	
DRAWING NUMBER	
2024-0050	
FILE NO.: 9	

DWG. FILENAME: P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury Pier\Drawings\CADD\Working\pEX-0000_Stansbury Park.dgn
8/23/2024



DETAIL A

CONCRETE SIDEWALK
N.T.S.



DETAIL B

ASPHALT SIDEWALK
N.T.S.

PAVEMENT LEGEND

1. 5" JOINTED PLAIN CONCRETE FOR SIDEWALK, MIX NO. 3
2. 1.5" SUPERPAVE ASPHALT MIX 9.5 mm FOR SURFACE, PG 64S-22, LEVEL 2
3. 1.5" SUPERPAVE ASPHALT MIX 9.5 mm FOR BASE, PG 64S-22, LEVEL 2
4. 4" GRADED AGGREGATE BASE
5. TOP OF SUBGRADE AND LIMIT OF EXCAVATION

NOTES

1. AN ADDITIONAL 1' WIDTH (MAXIMUM) EXCAVATION MAY BE USED FOR CURB & GUTTER FORM PLACEMENT, THE ADDITIONAL EXCAVATION WIDTH IS TO BE FILLED WITH A MINIMUM OF 6" GAB AND 6" JOINTED PLAIN PORTLAND CEMENT CONRETE MIX NO. 3, TO THE BOTTOM OF THE FINAL ASPHALT SURFACE LAYER. PAYMENT SHALL BE INCIDENTAL TO THE LINEAR FOOT ITEM FOR CURB & GUTTER. TRANSVERSE JOINTS SHALL MATCH THOSE OF THE CURB & GUTTER. DOWEL BARS ARE NOT NECESSARY.

2. SAW CUTS WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO CLASS 1 EXCAVATION OR PAVING ITEMS.

3. IN AREAS WHERE EXISTING PAVEMENT IS BEING REMOVED, THE LIMIT OF CLASS 1 EXCAVATION SHALL BE AT THE BOTTOM OF THE BOUND MATERIALS IN THE EXISTING PAVEMENT OR AT THE TOP OF THE SUBGRADE, WHICHEVER IS LOWER.

4. NO GRAVEL/REBAR/WIRE MESH IS REQUIRED IN THE SIDEWALK.

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SEAL: STATE OF MARYLAND WAHID HASSAN 59884 PROFESSIONAL ENGINEER

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AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
				ESW	14SE22	PLAN SCALE:	N.T.S.
			R.O.W NO.			PROFILE SCALE:	
CONTRACT COMPLETION BOX							

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
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PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
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BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

PAVEMENT DETAILS

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

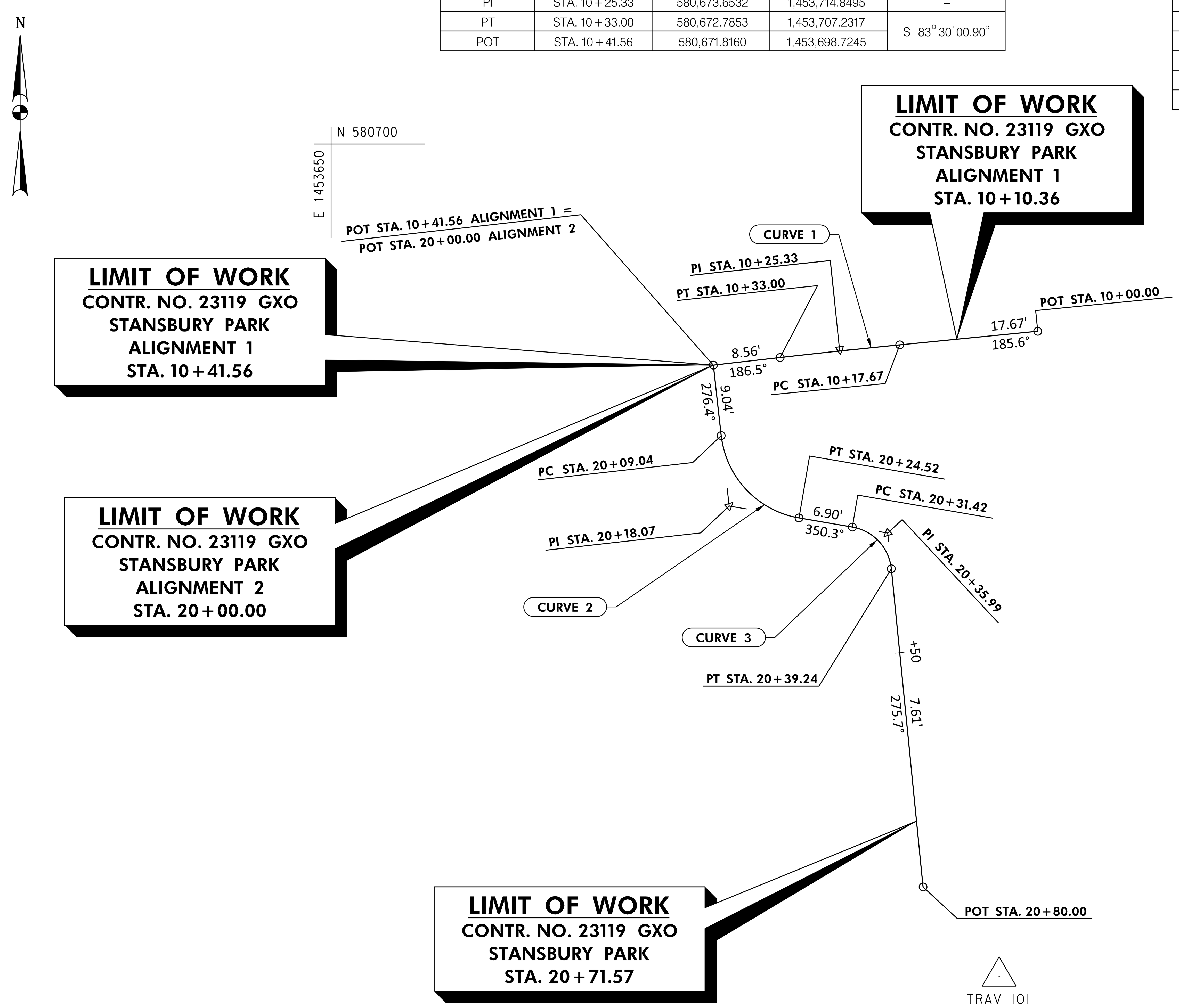
SHEET DESIGNATION	CONTRACT NUMBER
C-02	23119 GXO
	JOB ORDER NUMBER
	SHEET 4 OF 29
	DRAWING NUMBER
	2024-0051
	FILE NO.: 9 REV. 03/22

DWG. FILENAME:

8/23/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-StansburyPier\Drawings\CADD\Working\PD-D001_StansburyPark.dgn

BASELINE CONTROL COORDINATES – ALIGNMENT 1				
POINT DESC.	STATION	NORTHING	EASTING	BEARING
POT	STA. 10+00.00	580,676.1347	1,453,740.0618	S 84°22'43.75"
PC	STA. 10+17.67	580,674.4042	1,453,722.4797	
PI	STA. 10+25.33	580,673.6532	1,453,714.8495	–
PT	STA. 10+33.00	580,672.7853	1,453,707.2317	S 83°30'00.90"
POT	STA. 10+41.56	580,671.8160	1,453,698.7245	

BASELINE CONTROL COORDINATES – ALIGNMENT 2				
POINT DESC.	STATION	NORTHING	EASTING	BEARING
POT	STA. 20+00.00	580,671.8160	1,453,698.7245	S 6°22'37.84"
PC	STA. 20+09.04	580,662.8366	1,453,699.7281	
PI	STA. 20+18.07	580,653.8603	1,453,700.7313	
PT	STA. 20+24.52	580,652.3406	1,453,709.6347	S 80°18'48.18"
PC	STA. 20+31.42	580,651.1792	1,453,716.4384	
PI	STA. 20+35.99	580,650.4100	1,453,720.9452	
PT	STA. 20+39.24	580,645.8605	1,453,721.3992	S 5°41'53.62"
POT	STA. 20+80.00	580,605.2982	1,453,725.4466	



CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	CHORD
CURVE 1	0°52'42.84"	5°43'46.48"	1,000.00'	7.67'	15.33'	0.03'	15.33'
CURVE 2	73°56'10.35"	477°27'53.39"	12.00'	9.03'	15.49'	3.02'	14.43'
CURVE 3	74°36'54.56"	954°55'46.77"	6.00'	4.57'	7.81'	1.54'	7.27'

TRAVERSE POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	REMARK
TRAV 101	1,453,735.1530	580,593.8982	11.37	REBAR & CAP
TRAV 102*	1,453,690.4903	580,349.0911	26.75	REBAR & CAP

*SEE LOCATION MAP ON SHEET TS-01 FOR LOCATION OF TRAV 102.

10' 0 10' 20'
SCALE: 1" = 10'

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
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WAHID HASSAN
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R.O.W NO. | ESW | 14SE22
CONTRACT COMPLETION BOX
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DATE REVIEWED:

DRAWING SCALE
PLAN SCALE: 1"=10'
PROFILE SCALE:

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

GEOMETRY SHEET

SUBDIVISION: STANBROOK
ELECTION DIST. NO.: 12C7

SHEET DESIGNATION: C-03
CONTRACT NUMBER: 23119 GXO
JOB ORDER NUMBER

DRAWING NUMBER: 2024-0052
FILE NO.: 9
DWG. FILENAME:

8/23/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-StansburyPier\Drawings\CADD\Working\GS-P001_StansburyPark.dgn

APPROVED PERMIT PLAN SET
PERMIT #: CEN23-000087
PERMIT ISSUED DATE/TIME: 10/02/2024
THE REVIEW OF THESE PLANS DOES NOT RELIEVE THE OWNER, ARCHITECT, ENGINEER OR CONTRACTOR OF ANY RESPONSIBILITY WHATEVER FOR THE DESIGN, STRENGTH OR SAFETY OF THE CONSTRUCTION IT COVERS. ALL CONSTRUCTION MUST CONFORM TO THE BUILDING AND FIRE CODES INCLUDING DETAILS SHOWN OR NOT SHOWN. THE REVIEW OF THESE PLANS COVERS BASIC BUILDING CODE ITEMS. ADDITIONAL COMMENTS MAY BE ATTACHED. APPROVED PLANS MUST REMAIN AT BUILDING SITE UNTIL COMPLETION.

[illegible]LK STAKEOUT CHART

POINT NO.	STATION	OFFSET	ELEVATION
[illegible]	[illegible]0+10.36	0.00', LT /RT	6.16'
[illegible]	[illegible]0+11.30	6.00', LT	6.02'
[illegible]	[illegible]0+17.67	0.00', LT /RT	6.61'
[illegible]	STA. 10+33.00	0.00', LT /RT	7.55'
5	STA. 10+33.00	6.00', LT	7.67'
6	STA. 10+35.56	0.00', LT /RT	7.70'
7	STA. 10+35.58	6.00', LT	7.82'
8	STA. 10+41.55	0.00', LT /RT	7.82'
9	STA. 20+05.99	0.00', LT /RT	7.94'
10	STA. 20+09.04	0.00', LT /RT	8.08'
11	STA. 20+09.04	6.00', LT	7.96'
12	STA. 20+24.52	0.00', LT /RT	8.78'
13	STA. 20+24.52	6.00', LT	8.66'
14	STA. 20+30.49	0.00', LT /RT	9.04'
15	STA. 20+31.42	6.00', LT	8.97'
16	STA. 20+37.51	6.00', LT	9.18'

SIDEWALK STAKEOUT CHART CONTINUED

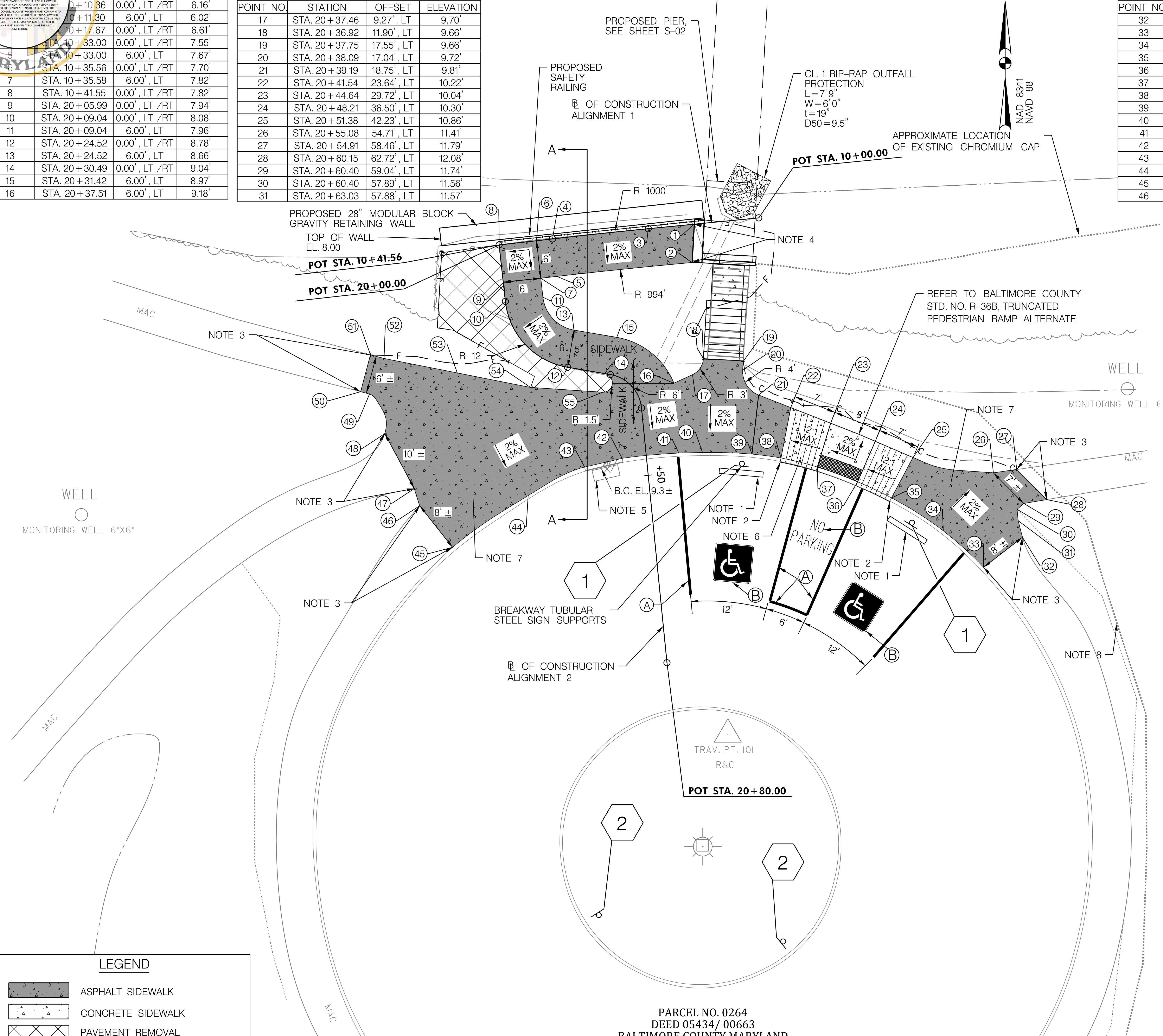
POINT NO.	STATION	OFFSET	ELEVATION
17	STA. 20+37.46	9.27', LT	9.70'
18	STA. 20+36.92	11.90', LT	9.66'
19	STA. 20+37.75	17.55', LT	9.66'
20	STA. 20+38.09	17.04', LT	9.72'
21	STA. 20+39.19	18.75', LT	9.81'
22	STA. 20+41.54	23.64', LT	10.22'
23	STA. 20+44.64	29.72', LT	10.04'
24	STA. 20+48.21	36.50', LT	10.30'
25	STA. 20+51.38	42.23', LT	10.86'
26	STA. 20+55.08	54.71', LT	11.41'
27	STA. 20+54.91	58.46', LT	11.79'
28	STA. 20+60.15	62.72', LT	12.08'
29	STA. 20+60.40	59.04', LT	11.74'
30	STA. 20+60.40	57.89', LT	11.56'
31	STA. 20+63.03	57.88', LT	11.57'

SIDEWALK STAKEOUT CHART CONTINUED

POINT NO.	STATION	OFFSET	ELEVATION
32	STA. 20+65.75	58.31', LT	11.59'
33	STA. 20+69.88	51.68', LT	11.43'
34	STA. 20+63.47	45.87', LT	11.15'
35	STA. 20+57.44	38.19', LT	10.71'
36	STA. 20+54.35	33.06', LT	10.16'
37	STA. 20+51.37	26.92', LT	9.89'
38	STA. 20+49.36	21.29', LT	10.04'
39	STA. 20+49.36	16.77', LT	9.99'
40	STA. 20+47.25	8.96', LT	9.96'
41	STA. 20+46.97	5.20', LT	9.92'
42	STA. 20+46.91	3.87', RT	9.80'
43	STA. 20+47.69	9.95', RT	9.78'
44	STA. 20+51.33	19.36', RT	9.84'
45	STA. 20+58.33	32.13', RT	10.56'
46	STA. 20+18.79	30.45', RT	10.39'

SIDEWALK STAKEOUT CHART CONTINUED

POINT NO.	STATION	OFFSET	ELEVATION
47	STA. 20+18.11	28.85', RT	10.31'
48	STA. 20+15.18	26.35', RT	10.08'
49	STA. 20+13.06	25.21', RT	9.55'
50	STA. 20+12.77	26.32', RT	9.57'
51	STA. 20+11.15	22.83', RT	9.49'
52	STA. 20+11.57	20.95', RT	9.48'
53	STA. 20+14.62	11.36', RT	9.38'
54	STA. 20+20.74	4.99', RT	9.77'
55	STA. 20+30.64	2.99', RT	9.58'



LEGEND

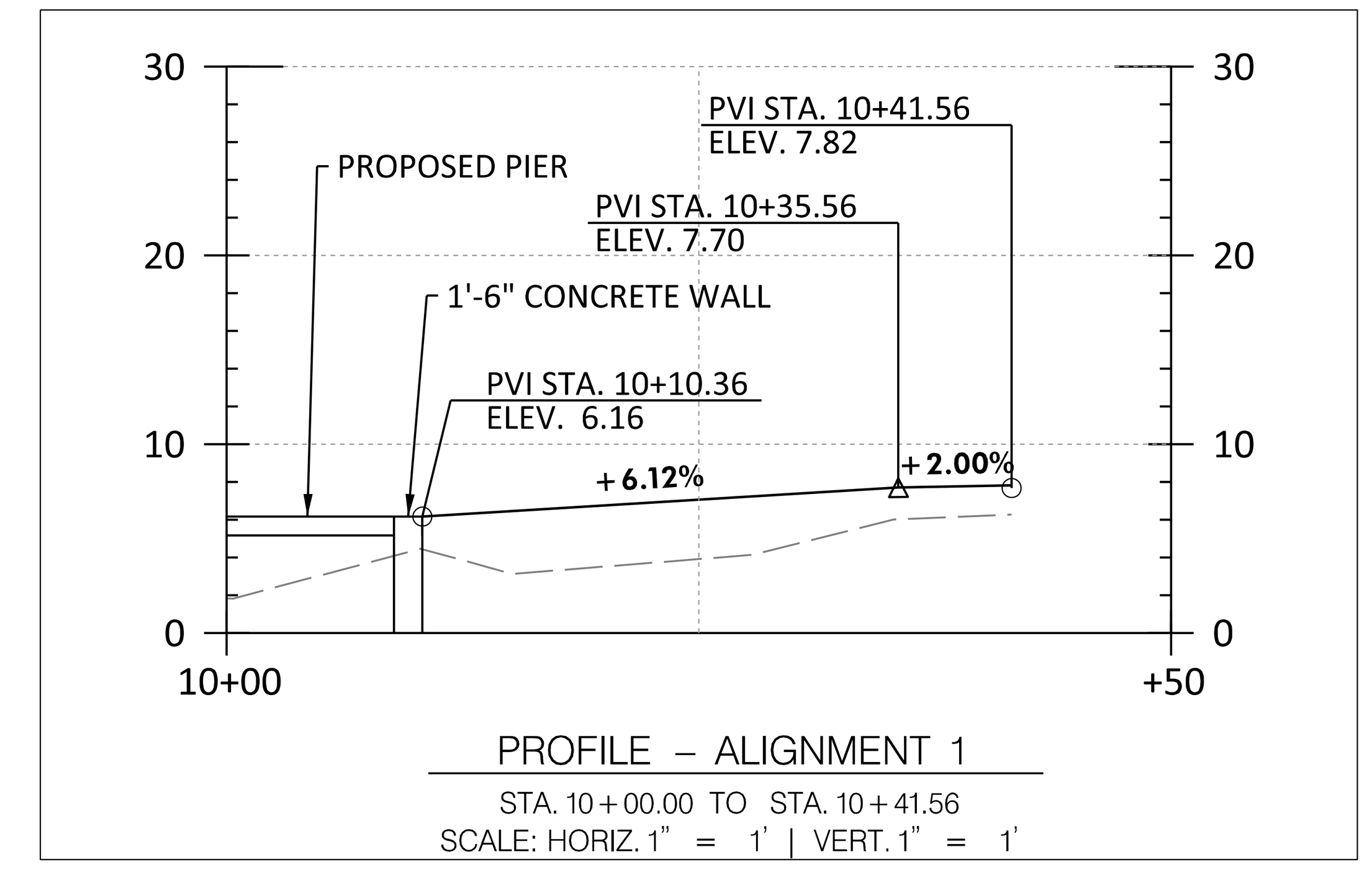
- ASPHALT SIDEWALK
- CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNING SURFACE
- —C— PROPOSED CUT LINE
- —F— PROPOSED FILL LINE

PLAN

SCALE: 1" = 10'

10' 0 10' 20'

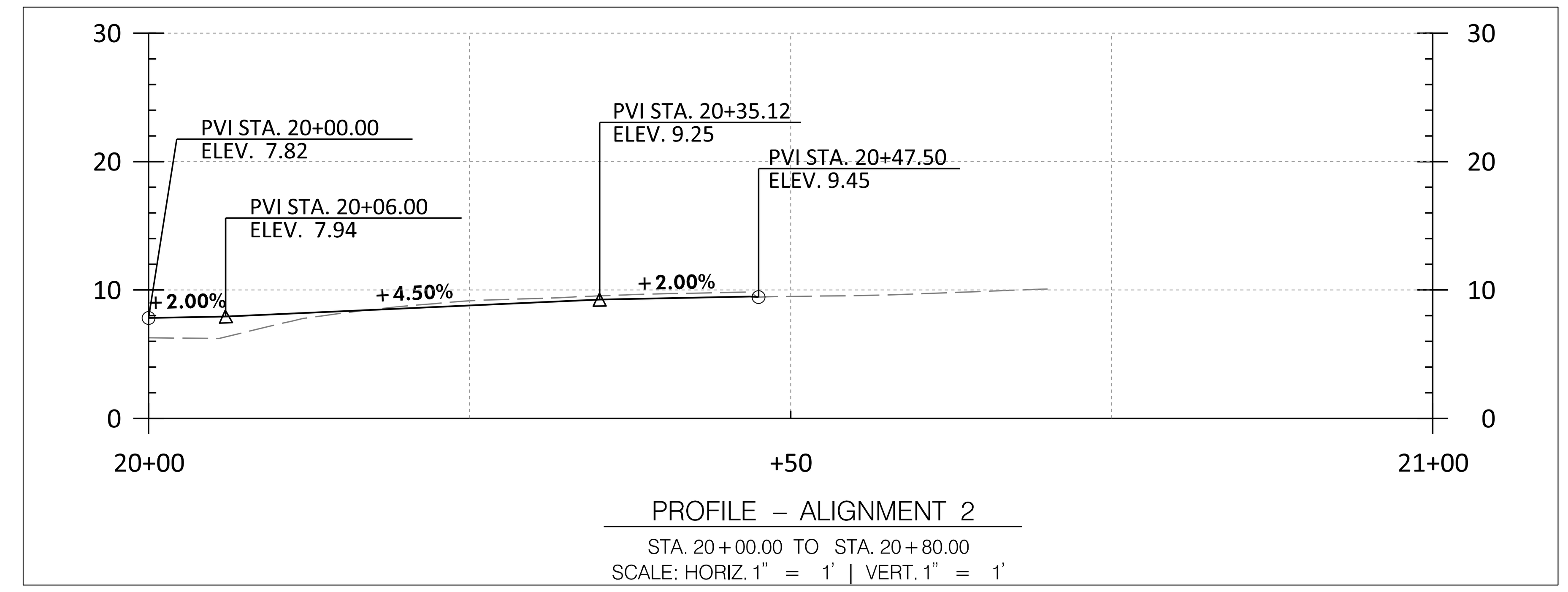
SCALE: 1" = 10'



PROFILE – ALIGNMENT 1

STA. 10+00.00 TO STA. 10+41.56

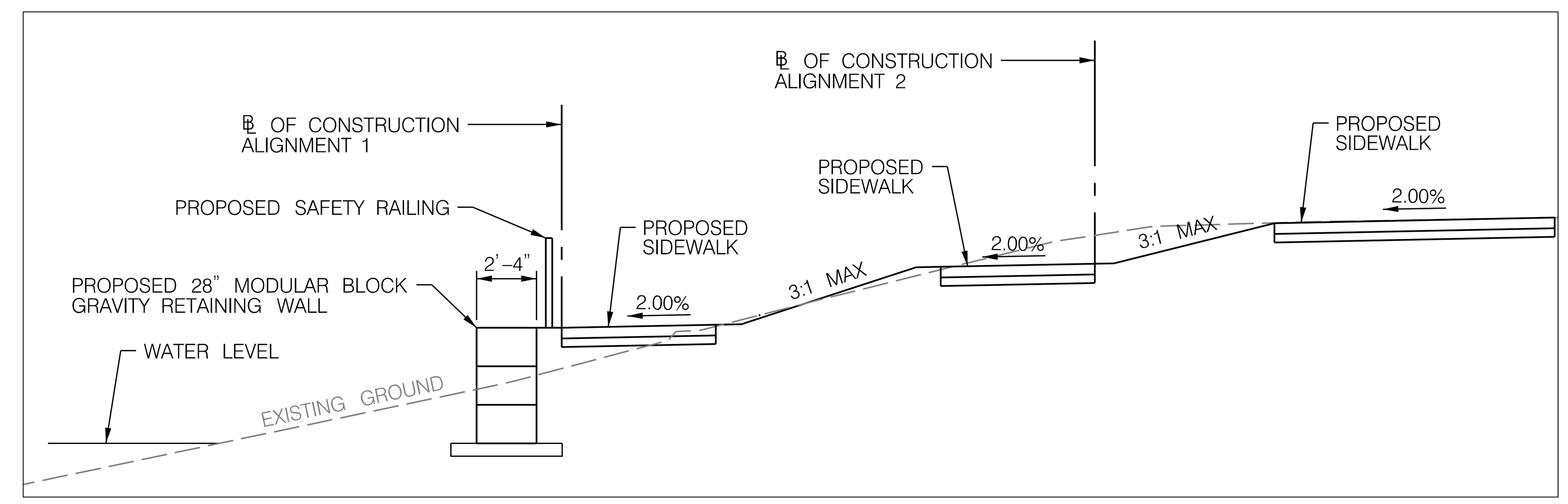
SCALE: HORIZ. 1" = 1' | VERT. 1" = 1'



PROFILE – ALIGNMENT 2

STA. 20+00.00 TO STA. 20+80.00

SCALE: HORIZ. 1" = 1' | VERT. 1" = 1'

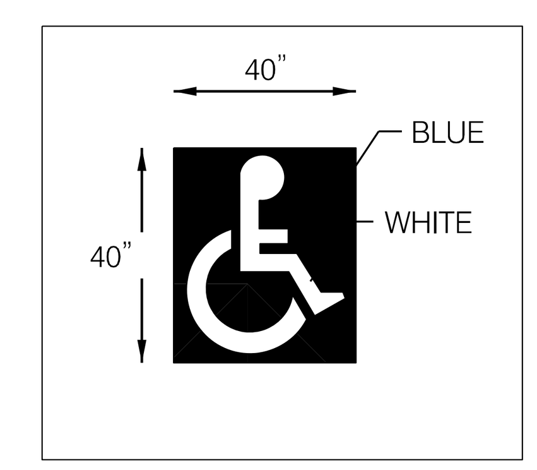


SECTION A–A

NOT TO SCALE

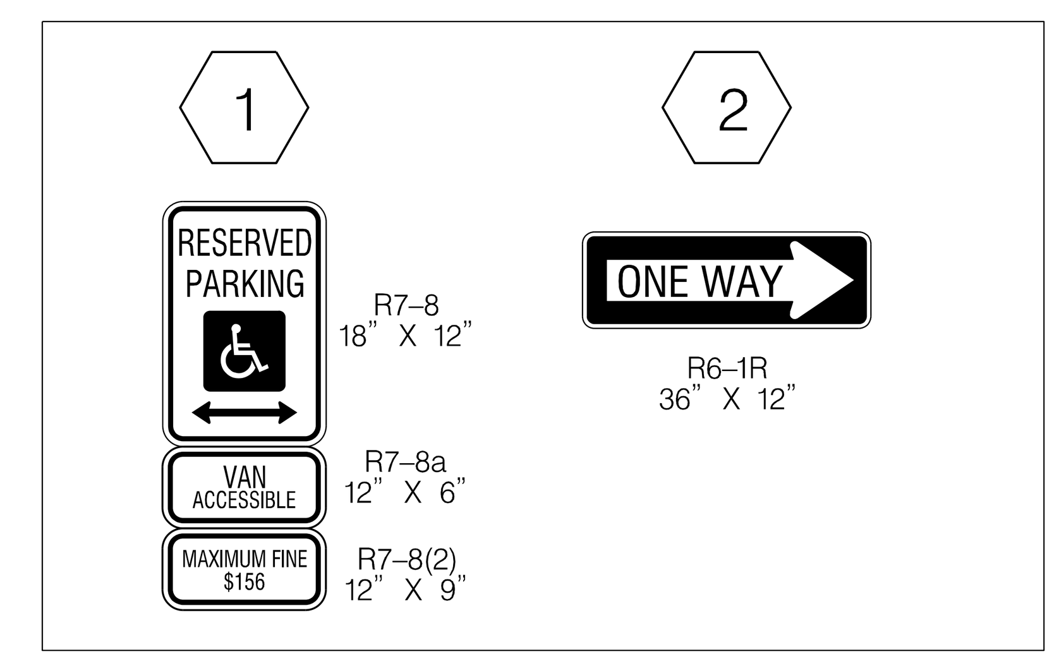
PAVEMENT MARKING LEGEND

- (A) 5 INCH WHITE PAVEMENT MARKING PAINT LINES
- (B) PAVEMENT MARKING SYMBOL



ACCESSIBILITY SYMBOL

NOT TO SCALE



SIGN CHART

NOT TO SCALE

NOTES

1. PRECAST CONCRETE WHEEL STOP, TYPE III-B. REFER TO MD SHA STD. NO. 634.04
2. TIE-IN TO EXISTING CURB.
3. TIE-IN TO EXISTING SIDEWALK ELEVATION AND GRADE.
4. TIE-IN TO EXISTING DECK.
5. EXISTING INLET TO REMAIN.
6. CONCRETE SIDEWALK, REFER TO DETAIL A ON SHEET C-02.
7. ASPHALT SIDEWALK, REFER TO DETAIL B ON SHEET C-02.
8. NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

NOTE

FOR EXPANSION JOINT, 1/2" PREFORMED BITUMINOUS MATERIAL WILL BE USED. REFER TO BALTIMORE COUNTY STD. NO. R-19.

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
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AS-BUILT / REVISION | BY | DATE | P.W.A. NO. | R.O.W NO. | KEY SHEET: ESW | POSITION SHT: 14SE22

CONTRACT COMPLETION BOX

DRAWING SCALE — PLAN SCALE: 1" = 10' — PROFILE SCALE: AS SHOWN / AS SHOWN

BUREAU OF ENGINEERING AND CONSTRUCTION | TRAFFIC | HIGHWAYS | STRUCTURES | STORM DRAINS | SEWER | WATER | FIELD ENGINEER

REVIEWED BY:

DATE REVIEWED:

PROPERTY MANAGEMENT

APPROVED BY: ______ PROPERTY MANAGER

DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

SITE IMPROVEMENT PLAN

SUBDIVISION: **STANBROOK**

ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION: **C-04**

CONTRACT NUMBER: 23119 GXO

JOB ORDER NUMBER

DRAWING NUMBER: 2024-0053

FILE NO.: 9 REV. 03/22

DWG. FILENAME:

8/23/2024

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CRACK RASIED SECTION

REPAIR TYPE 1 : RAISED SECTION REPAIR

REPAIR 1 NOTES:

1. REMOVE ASPHALT AS NOTED IN TABLE 1.
2. INSTALL CR-6 TO DEPTH OF 4" ABOVE THE TOP OF THE TREE ROOT. (MAX. GRADE OF 12 : 1)
3. PLACE ASPHALT AND INSTALL SOIL SHOULDERS AT MAX. SLOPE OF 6 : 1 IN THE TRANSVERSE DIRECTION.

LINEAR CRACKING

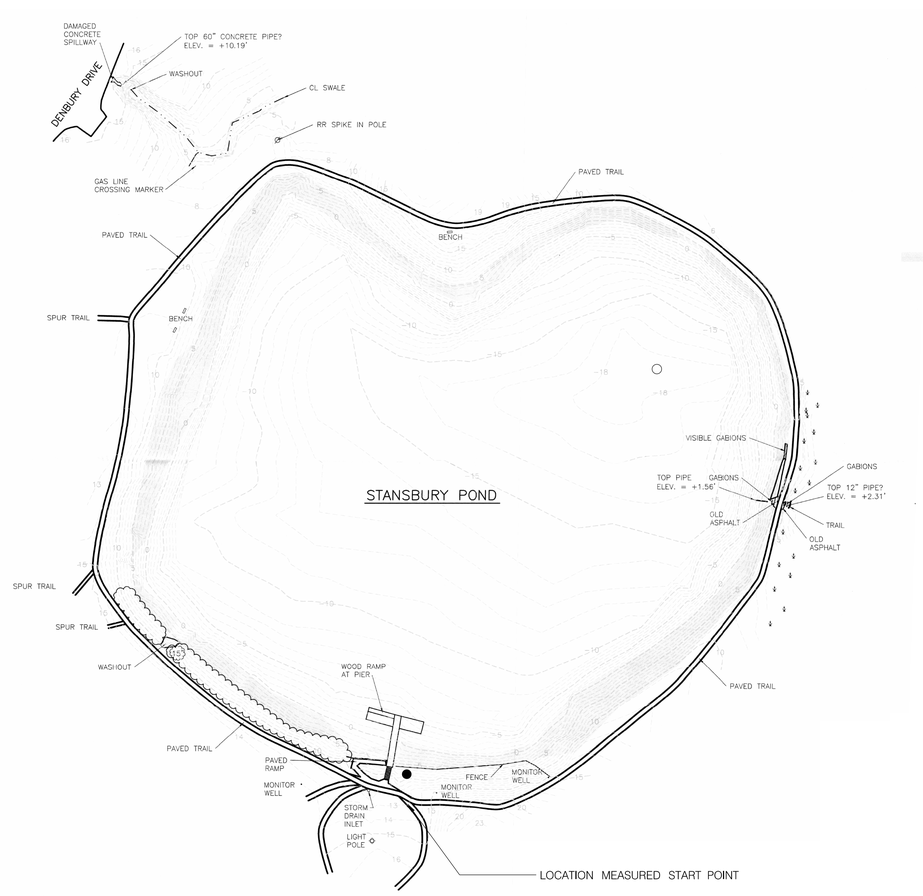
REPAIR TYPE 2 : SEAL LINEAR CRACK REPAIR

REPAIR 2 NOTES:

1. CLEAN ASPHALT IN AND AROUND THE CRACK. SEE THIS SHEET AND SHEET C-06 FOR TABLE LISTING OF REPAIRS.
2. INSTALL ASPHALT CRACK SEALANT.
3. TOTAL 104 DEFECT LOCATIONS
4. TOTAL LINEAR FEET OF CRACKS 658 FT.

TABLE 1			
DEFECT TYPE	BEGIN	END	DEFECT QUANTITIES
TYPE 1	160'-0"	165'-0"	30 SF
TYPE 1	201'-0"	218'-0"	102 SF
TYPE 1	332'-0"	337'-0"	30 SF
TYPE 1	411'-0"	420'-0"	54 SF
TYPE 1 *	604'-0"	608'-0"	24 SF
TYPE 1	769'-0"	771'-0"	12 SF
TYPE 1	859'-0"	874'-0"	90 SF
TYPE 1	878'-6"	896'-6"	108 SF
TYPE 1	922'-0"	928'-6"	39 SF
TYPE 1	1326'-8"	1332'-8"	36 SF
TYPE 1	1397'-0"	1402'-0"	30 SF
TYPE 1	1548'-0"	1558'-0"	60 SF
		TOTAL	615 SF

* Eroded under pavement



LOCATION MAP
NOT TO SCALE

NOTE: MEASUREMENT TAKEN COUNTERCLOCKWISE ALONG OUTSIDE OF TRAIL FROM START POINT AS NOTED IN THE LOCATION MAP

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R.O.W NO. | ESW | 14SE22

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REVIEWED BY:							
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BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

PAVEMENT REPAIR DETAILS – 1

SUBDIVISION: **STANBROOK**

ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
C-05	23119 GXO
	JOB ORDER NUMBER
SHEET 7 OF 29	
DRAWING NUMBER	
2024-0054	
FILE NO.: 9	

BALTIMORE COUNTY MARYLAND

DWG. FILENAME: P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury_Pier\Drawings\CADD\Working\BR-DE03_stansbury.dgn
8/23/2024

TABLE 2		
STATION	CRACK ORIENTATION	LENGTH
38'–3"	Transverse	6 LF
71'–7"	Transverse	6 LF
101'–2"	Transverse	6 LF
103'–1"	Transverse	2 LF
115'–1"	Transverse	6 LF
142'–0"	Diagonal	1 LF
161'–6" to 163'–0"	Transverse, Longitudinal (2)	10 LF
325'–7"	Transverse	6 LF
342'–9"	Transverse	6 LF
348'–9"	Longitudinal	3 LF
355'–1"	Transverse	5 LF
451'–0"	Transverse	6 LF
525'–7"	Diagonal	2 LF
530'–0"	Transverse	4 LF
534'–8"	Diagonal	4 LF
544'–0"	Transverse	6 LF
555'–0"	Transverse	6 LF
564'–0"	Transverse	6 LF
570'–0"	Diagonal	3 LF
571'–6"	Transverse	6 LF
590'–0"	Transverse	9 LF
608'–0"	Transverse	6 LF
629'–1"	Transverse	6 LF
665'–9"	Transverse	6 LF
707'–9"	Transverse	6 LF
726'–2"	Transverse	6 LF
746'–1"	Transverse	6 LF
758'–6"	Transverse/Longitudinal	8 LF
777'–0"	Longitudinal	3 LF
779'–6"	Transverse	6 LF
796'–0"	Transverse	2 LF

TABLE 2 CONTINUED...		
STATION	CRACK ORIENTATION	LENGTH
810'–2"	Transverse	6 LF
822'–2"	Diagonal	6 LF
840'–2"	Transverse	4 LF
840'–2" to 844'–2"	Longitudinal	4 LF
846'–11" to 850'–11"	Diagonal	8 LF
856'–9"	Transverse	4 LF
906'–8"	Transverse	3 LF
909'–4"	Transverse	4 LF
912'–9" to 916'–10"	Diagonal	6 LF
928'–6" to 950'–9"	Longitudinal	23 LF
950'–9"	Transverse	6 LF
963'–0"	Transverse	6 LF
995'–0"	Transverse	6 LF
1025'–1"	Transverse	6 LF
1035'–0"	Transverse	2 LF
1165'–5" to 1170'–2"	Longitudinal, Diagonal	8 LF
1182'–6"	Transverse	3 LF
1184'–8"	Diagonal	8 LF
1201'–6"	Longitudinal	3 LF
1239'–6"	Diagonal	7 LF
1258'–10"	Transverse	2 LF
1264'–11"	Diagonal	6 LF
1276'–5"	Diagonal	3 LF
1309'–0"	Diagonal	6 LF
1340'–11"	Transverse	2 LF
1405'–0"	Transverse	2 LF
1465'–0"	Transverse	3 LF
1479'–1"	Diagonal	2 LF
1523'–8"	Transverse	6 LF
1584'–4"	Transverse	2 LF
1592'–8"	Transverse	2 LF

TABLE 2 CONTINUED...		
STATION	CRACK ORIENTATION	LENGTH
1599'–3"	Transverse	2 LF
1631'–9"	Transverse	6 LF
1651'–10"	Transverse	4 LF
1721'–8"	Transverse	6 LF
1746'–0"	Transverse	6 LF
1754'–7"	Transverse	3 LF
1760'–8"	Transverse	6 LF
1788'–8"	Transverse	3 LF
1808'–8"	Transverse	6 LF
1860'–3"	Transverse	6 LF
1924'–11"	Transverse	6 LF
1960'–0"	Transverse	6 LF
1982'–6"	Transverse	6 LF
2000'–7"	Transverse	6 LF
2011'–4"	Transverse	4 LF
2019'–7"	Transverse	6 LF
2025'–0"	Transverse	3 LF
2045'–6"	Transverse	6 LF
2051'–8"	Transverse	3 LF
2082'–1"	Transverse	4 LF
2112'–6"	Transverse	6 LF
2133'–3"	Transverse	3 LF
2158'–3"	Transverse	6 LF
2183'–2"	Transverse	14 LF
2210'–2"	Transverse	6 LF
2225'–9"	Transverse	6 LF
2243'–4"	Transverse	6 LF
2275'–4"	Transverse	6 LF
2287'–0"	Transverse	6 LF
2307'–0"	Transverse	6 LF
2317'–0" to 2321'–0"	Diagonal	6 LF

TABLE 2 CONTINUED...		
STATION	CRACK ORIENTATION	LENGTH
327'–5" to 2338'–10"	Longtitudinal	12 LF
2353'–9"	Transverse	6 LF
2380'–9"	Transverse	6 LF
2388'–2" to 2400'–1"	Longitudinal	12 LF
2400'–1"	Transverse	6 LF
2405'–7"	Transverse	2 LF
2421'–9"	Transverse	6 LF
2432'–0" to 2441'–7"	Longitudinal	11 LF
2441'–7"	Transverse	6 LF
2441'–7" to 2455'–8"	Longitudinal	27 LF
2463'–5"	Transverse	2 LF
2468'–0"	Transverse	4 LF
2474'–11"	Transverse	6 LF
2468'–0" to 2479'–8"	Longitudinal	12 LF
2479'–8"	Transverse	6 LF
2507'–3"	Transverse	6 LF
2516'–4"	Transverse	1 LF
2516'–4" to 2519'–7"	Longitudinal	4 LF
2519'–7"	Transverse	6 LF
2537'–7"	Transverse	6 LF
2537'–7" to 2555'–3"	Longitudinal (several)	24 LF
2555'–3"	Transverse	6 LF
2569'–7"	Transverse	3 LF
2576'–8"	Transverse	6 LF
2580'–0"	Transverse	6 LF
	TOTAL	684 LF

NOTE:
DEFECT TYPE : TYPE 2

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SEAL

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 59884 , EXPIRATION DATE 09/11/2024 .

ENGINEER: WAHID HASSAN
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: KBJ
DWN BY: KBJ
CHKD BY: WH

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT
			R.O.W NO.	ESW	14SE22
CONTRACT COMPLETION BOX					

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE:
PROFILE SCALE:

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

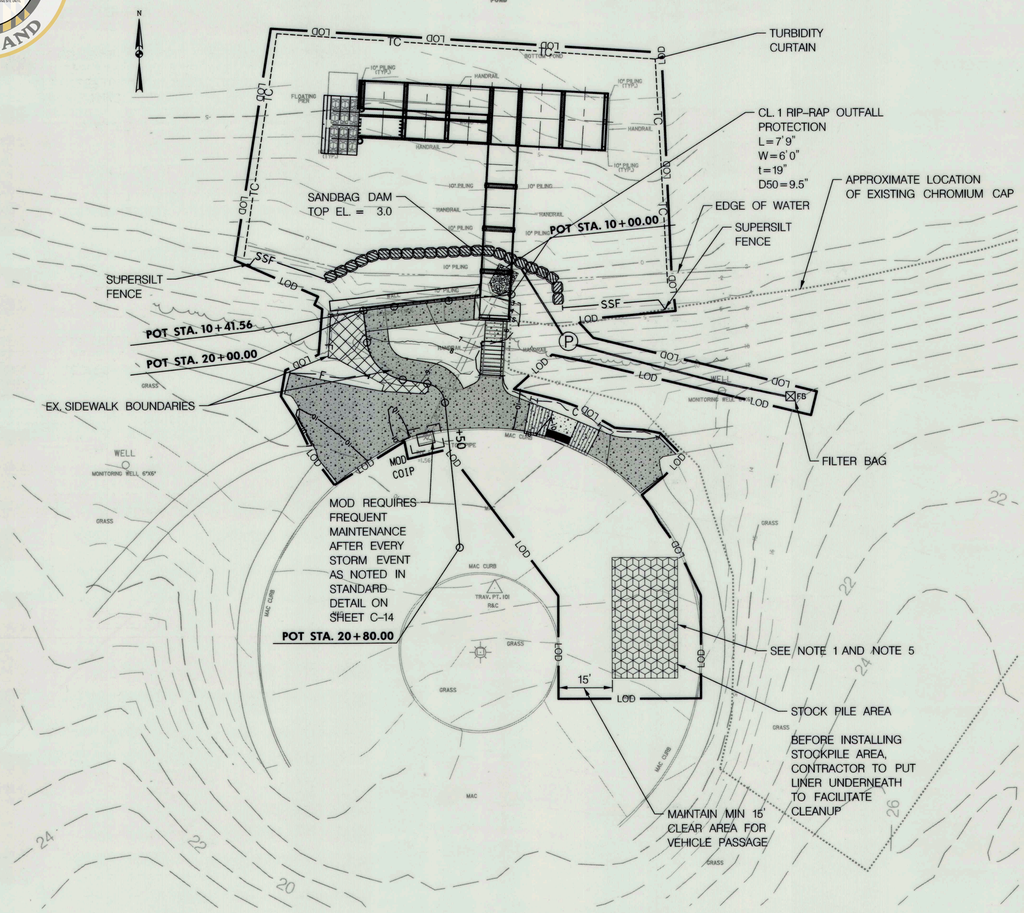
PAVEMENT REPAIR DETAILS – 2

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
C–06	23119 GXO
	JOB ORDER NUMBER
	SHEET 8 OF 29
	DRAWING NUMBER
	2024-0055
	FILE NO.: 9

DWG. FILENAME:
8/23/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury\Plan Drawings\CADD\Working\pBR-DE06_stansbury.dgn



PLAN
SCALE: 1" = 20'

LEGEND

- SANDBAG DAM
- SSF — SUPER SILT FENCE
- HOSE
- ----TC---- TURBIDITY CURTAIN
- (P) PUMP
- FB FILTER BAG
- MOD COIP — MODIFIED COMBINATION INLET PROTECTION
- EXISTING 1-FT CONTOUR
- EXISTING 2-FT CONTOUR
- EXISTING 5-FT CONTOUR
- PROPOSED 1-FT CONTOUR
- LOD — LIMIT OF DISTURBANCE
- STOCKPILE AREA
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- EDGE OF WATER LINE
- ASPHALT SIDEWALK
- CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNING SURFACE

SEQUENCE OF CONSTRUCTION (PHASE I)

NOTE: ALL REQUIRED FEDERAL, STATE, AND LOCAL PERMITS MUST BE OBTAINED PRIOR TO THE PRE-CONSTRUCTION MEETING.

1. NOTIFY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, INSPECTION AND COMPLIANCE PROGRAM, 410-537-3510, AT LEAST 5 DAYS PRIOR TO BEGINNING WORK. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS, AND INSPECTIONS, SEDIMENT CONTROL, 410-887-3226 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
2. IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMIT OF DISTURBANCE, WHERE THE LIMIT IS WITHIN 50 FEET OF THE FOREST BUFFER/CONSERVATION EASEMENT. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRE-CONSTRUCTION MEETING.
3. CLEAR AND GRUB FOR SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.
4. INSTALL ALL SEDIMENT & EROSION CONTROL MEASURES.
5. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL UPON COMPLETION OF SAID INSTALLATION.
6. WITH THE APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB REMAINDER OF SITE.
7. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
8. LOCATE THE STAGING AREAS WITH THE APPROVAL OF THE BALTIMORE COUNTY INSPECTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY ADDITIONAL E&SC CONTROLS FOR THE STAGING AREAS AS REQUIRED BY THE INSPECTOR.
9. DEMOLISH THE EXISTING RAMP, TIMBER RETAINING WALL, TIMBER PIER, HANDRAILS FOR STAIRS, AND SIDEWALK. REMOVE FLOATING DOCK.
10. CONSTRUCT RIPRAP OUTFALL PROTECTION AND PIER. INSTALL FLOATING DOCK. CONSTRUCT RETAINING WALL, INSTALL STAIR HANDRAILS, AND GRADE ADA RAMP. STABILIZE STEEP SLOPES WITH SOIL STABILIZATION MATTING AND PERMANENT SEED.
11. INSTALL CONCRETE SIDEWALK, ADA RAMP, AND PARKING CURBS, SIGNS AND STRIPING.
12. UPON COMPLETION AND STABILIZATION OF SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.
13. WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR PROCEED TO PHASE 2 ON SHEETS C-08 TO C-11.

NOTES:

1. ALL STOCKPILE, STAGING, AND PARKING MUST BE ON THE EXISTING PAVEMENT AS SHOWN. PLACE LINER BELOW STOCKPILE AREAS LOCATED ON PAVED SURFACES. COMPLIANCE WITH B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA ON SHEET C-14.
2. ENTIRE WORK AREA IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
3. TOTAL DISTURBED AREA: 15,921 SF/0.37 AC.
4. ADJUST ESC MEASURES AS NEEDED FOR SITE ACCESS. RESET ESC DEVICES AS INDICATED ON THESE PLANS AT END OF EACH WORK DAY.
5. ALL STONE OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO THE ADJACENT ROADWAY MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING, AND/OR SWEEPING.
6. NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

BALTIMORE COUNTY GRADING PLAN NOTES:

1. THE PROPOSED GRADING SHOWN ON THIS PLAN MEETS THE REQUIREMENTS SET FORTH BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY AND COMPLIES WITH ARTICLE 33, TITLE 5 OF THE BALTIMORE COUNTY CODE. HOWEVER, DUE TO BUILDING TYPES AND LAYOUT, SOME FIELD ADJUSTMENTS MAY BE REQUIRED. ALL CHANGES MUST COMPLY WITH THE ABOVE MENTIONED REQUIREMENTS.
2. ALL SWALES HAVE BEEN DESIGNED BY THE ENGINEER TO CONVEY RUNOFF ACCORDING TO BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS.
3. THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION, OR DISTURBANCE OF VEGETATION IN THE FOREST BUFFER EASEMENT OR OTHER FOREST RETENTION AREAS, EXCEPT AS PERMITTED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY.
4. STORMWATER MANAGEMENT HAS BEEN ADDRESSED THROUGH PAYMENT OF A FEE IN LIEU TO THE BALTIMORE COUNTY STORMWATER MANAGEMENT FUND

R-1, 8/29/24 DB
Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Bachman 8-29-24
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

20' 0 20' 40'
SCALE: 1" = 20'

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Consulting Engineers
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Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SEAL
STATE OF MARYLAND ANKUR PATEL No. 52748 PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 52748 , EXPIRATION DATE 06/03/2026 .
ENGINEER: ANKUR PATEL
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: AP
DWN BY: CC
CHKD BY: AP

AS-BUILT / REVISION | BY | DATE | P.W.A. NO. | KEY SHEET | POSITION SHT
R.O.W NO. | ESW | 14SE22
CONTRACT COMPLETION BOX

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE: AS SHOWN
PROFILE SCALE: AS SHOWN

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

PHASE 1 EROSION AND SEDIMENT CONTROL PLAN

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

ESC 3 OF 11
MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
C-07	23119 GXO
JOB ORDER NUMBER	
SHEET 9 OF 29	
DRAWING NUMBER	2024-0056
FILE NO.: 9	

DWG. FILENAME:

8/22/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury Pier\Drawings\CADD\Working\pES-1001_StansburyPark.dgn

NSTRUCTION (PHASE 2)

RE COUNTY DEPARTMENT OF PERMITS, APPROVALS, AND SEDIMENT CONTROL, 410-887-3226 AT LEAST 48 HOURS INNING WORK.

2. IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMIT OF DISTURBANCE, WHERE THE LIMIT IS WITHIN 50 FEET OF THE FOREST BUFFER/CONSERVATION EASEMENT. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRE- CONSTRUCTION MEETING.

3. CLEAR AND GRUB FOR SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.

4. INSTALL ALL SEDIMENT & EROSION CONTROL MEASURES.

5. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL UPON COMPLETION OF SAID INSTALLATION.

6. WITH THE APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR, PROCEED TO STEP 7.

7. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.

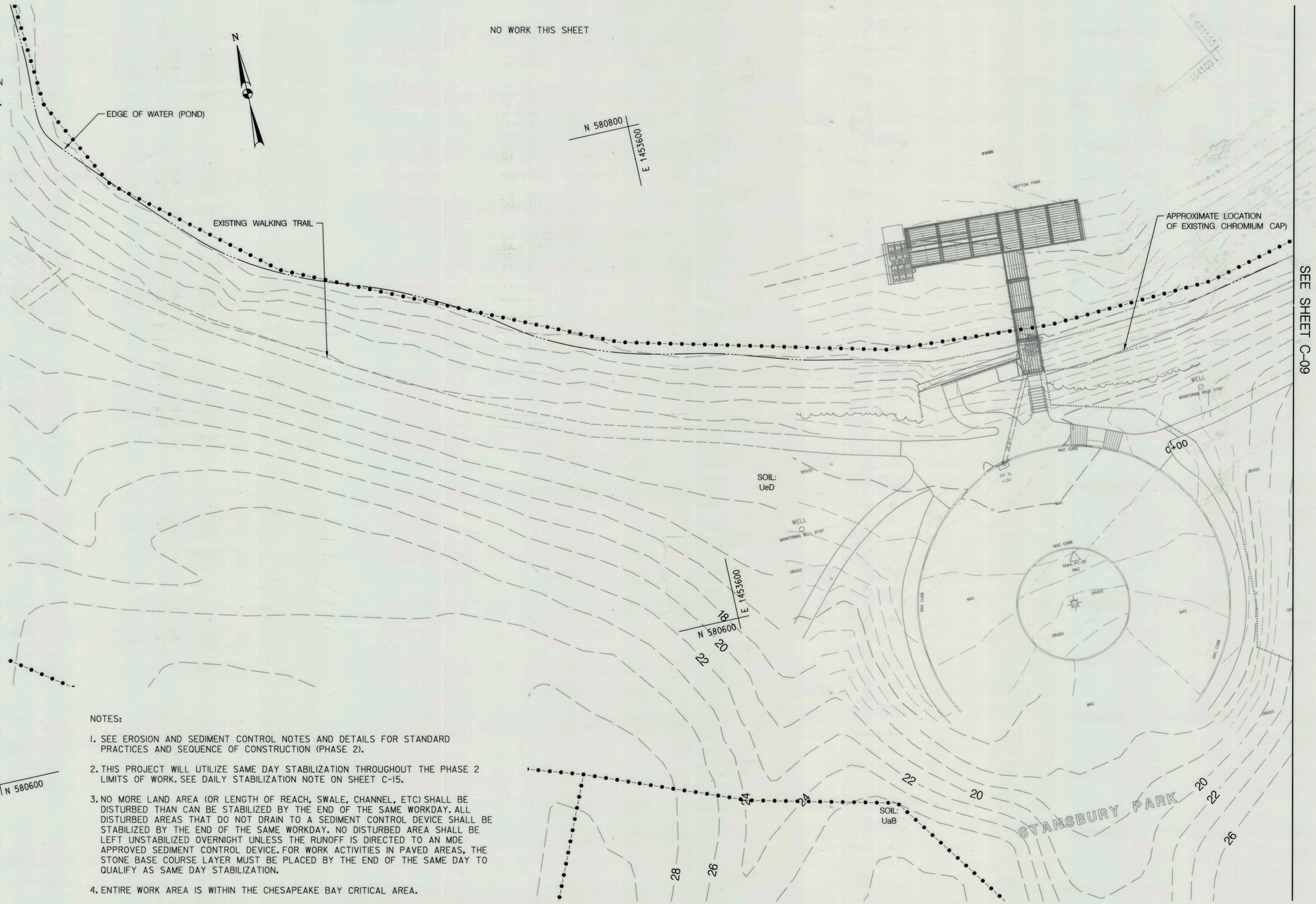
8. LOCATE THE STAGING AREAS WITH THE APPROVAL OF THE BALTIMORE COUNTY INSPECTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY ADDITIONAL E&SC CONTROLS FOR THE STAGING AREAS AS REQUIRED BY THE INSPECTOR.

9. PHASE 2 WORK MUST BE COMPLETED STARTING AT THE FURTHEST POINT FROM THE STAGING AREA. UTILIZE EXISTING PAVED PATHWAY TO ACCESS WORK AREAS TO PATCH THE ASPHALT TRAIL.

10. UPON COMPLETION AND STABILIZATION OF SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.

LEGEND

- SANDBAG DAM
- SSF — SUPER SILT FENCE
- HOSE
- TC — TURBIDITY CURTAIN
- P — PUMP
- FB — FILTER BAG
- MOD COIP — MODIFIED COMBINATION INLET PROTECTION
- EXISTING 1-FT CONTOUR
- EXISTING 2-FT CONTOUR
- EXISTING 5-FT CONTOUR
- PROPOSED 1-FT CONTOUR
- ASPHALT SIDEWALK
- CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNING SURFACE
- LOD — LIMIT OF DISTURBANCE
- EDGE OF WATER LINE
- STOCKPILE AREA
- C — PROPOSED CUT LINE
- F — PROPOSED FILL LINE
- SOIL BOUNDARY
- FOREST BUFFER
- WETLAND
- B — 25-FT WETLAND BUFFER



NOTES:

1. SEE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS FOR STANDARD PRACTICES AND SEQUENCE OF CONSTRUCTION (PHASE 2).

2. THIS PROJECT WILL UTILIZE SAME DAY STABILIZATION THROUGHOUT THE PHASE 2 LIMITS OF WORK. SEE DAILY STABILIZATION NOTE ON SHEET C-15.

3. NO MORE LAND AREA (OR LENGTH OF REACH, SWALE, CHANNEL, ETC) SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE SAME WORKDAY. ALL DISTURBED AREAS THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED BY THE END OF THE SAME WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE. FOR WORK ACTIVITIES IN PAVED AREAS, THE STONE BASE COURSE LAYER MUST BE PLACED BY THE END OF THE SAME DAY TO QUALIFY AS SAME DAY STABILIZATION.

4. ENTIRE WORK AREA IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.

5. ALL STONE OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO THE ADJACENT ROADWAY MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING, AND/OR SWEEPING.

6. NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

PLAN
SCALE: 1" = 20'

20' 0 20' 40'
SCALE: 1" = 20'

A-1, 8/29/24 DB
Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Barlman 8-29-24
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

ESC 4 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
C-08	23119 GXO
	JOB ORDER NUMBER
	SHEET 10 OF 29
	DRAWING NUMBER
	2024-0057
	FILE NO.: 9

BAI
BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SEAL — STATE OF MARYLAND, ANKUR PATEL, No. 52748, PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE
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. 52748 , EXPIRATION DATE 06/03/2026 .	CONTRACT COMPLETION BOX		
ENGINEER: ANKUR PATEL — DGN BY: AP			
AS-BUILT PER RECORD PRINT — DWN BY: CC			
BY: DATE: — CHKD BY: AP			

P.W.A. NO.	KEY SHEET	POSITION SHT
R.O.W NO.	ESW	14SE22

DRAWING SCALE	
PLAN SCALE:	AS SHOWN
PROFILE SCALE:	AS SHOWN / AS SHOWN

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

STANSBURY PARK - PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

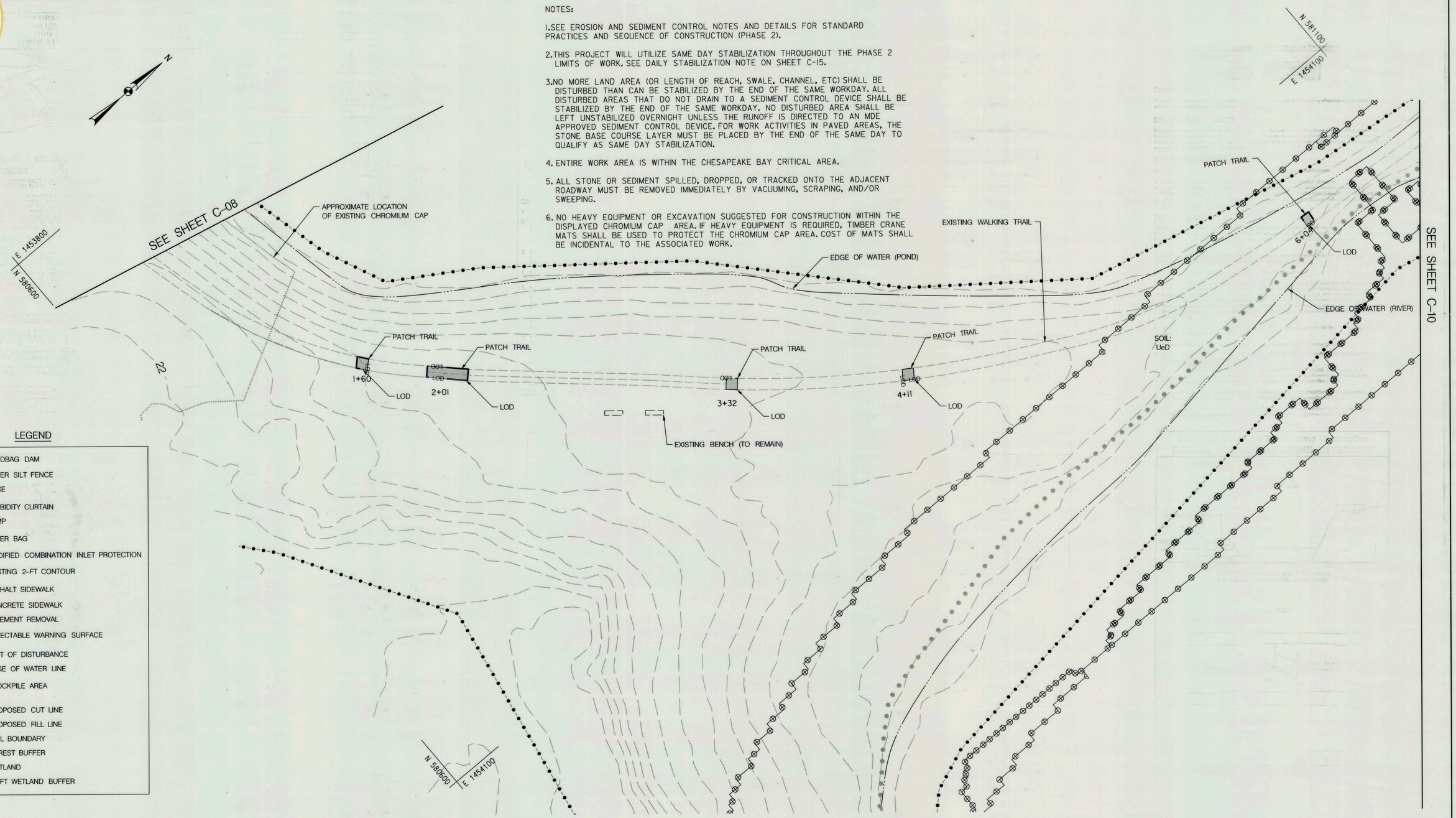
PHASE 2 EROSION AND SEDIMENT CONTROL PLAN 1

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

8/23/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-StansburyPlan\Drawings\CADD\Working\pES-2001_StansburyPark.dgn
DWG. FILENAME:

NOTES:

1. SEE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS FOR STANDARD PRACTICES AND SEQUENCE OF CONSTRUCTION (PHASE 2).
2. THIS PROJECT WILL UTILIZE SAME DAY STABILIZATION THROUGHOUT THE PHASE 2 LIMITS OF WORK. SEE DAILY STABILIZATION NOTE ON SHEET C-15.
3. NO MORE LAND AREA (OR LENGTH OF REACH, SWALE, CHANNEL, ETC) SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE SAME WORKDAY. ALL DISTURBED AREAS THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED BY THE END OF THE SAME WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE. FOR WORK ACTIVITIES IN PAVED AREAS, THE STONE BASE COURSE LAYER MUST BE PLACED BY THE END OF THE SAME DAY TO QUALIFY AS SAME DAY STABILIZATION.
4. ENTIRE WORK AREA IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
5. ALL STONE OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO THE ADJACENT ROADWAY MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING, AND/OR SWEEPING.
6. NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.



LEGEND

- SANDBAG DAM
- SSF — SUPER SILT FENCE
- HOSE
- TC — TURBIDITY CURTAIN
- P — PUMP
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- F — PROPOSED FILL LINE
- SOIL BOUNDARY
- FOREST BUFFER
- WETLAND
- B — 25-FT WETLAND BUFFER

PLAN
SCALE: 1" = 20'
20' 0 20' 40'
SCALE: 1" = 20'

R-1, 8/29/24 DB
Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Barbour 8-29-24
Date
STORMWATER MANAGEMENT PERMIT NOT REQUIRED

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SEAL
STATE OF MARYLAND ANKUR PATEL No. 52748 PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 52748 , EXPIRATION DATE 06/03/2026 .
ENGINEER: ANKUR PATEL
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: AP
DWN BY: CC
CHKD BY: AP

AS-BUILT / REVISION	BY	DATE
CONTRACT COMPLETION BOX		

P.W.A. NO.	KEY SHEET	POSITION SHT
R.O.W NO.	ESW	14SE22

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE	
PLAN SCALE:	AS SHOWN
PROFILE SCALE:	AS SHOWN / AS SHOWN

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

PHASE 2 EROSION AND SEDIMENT CONTROL PLAN 2

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

BALTIMORE COUNTY MARYLAND

ESC 5 OF 11
MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

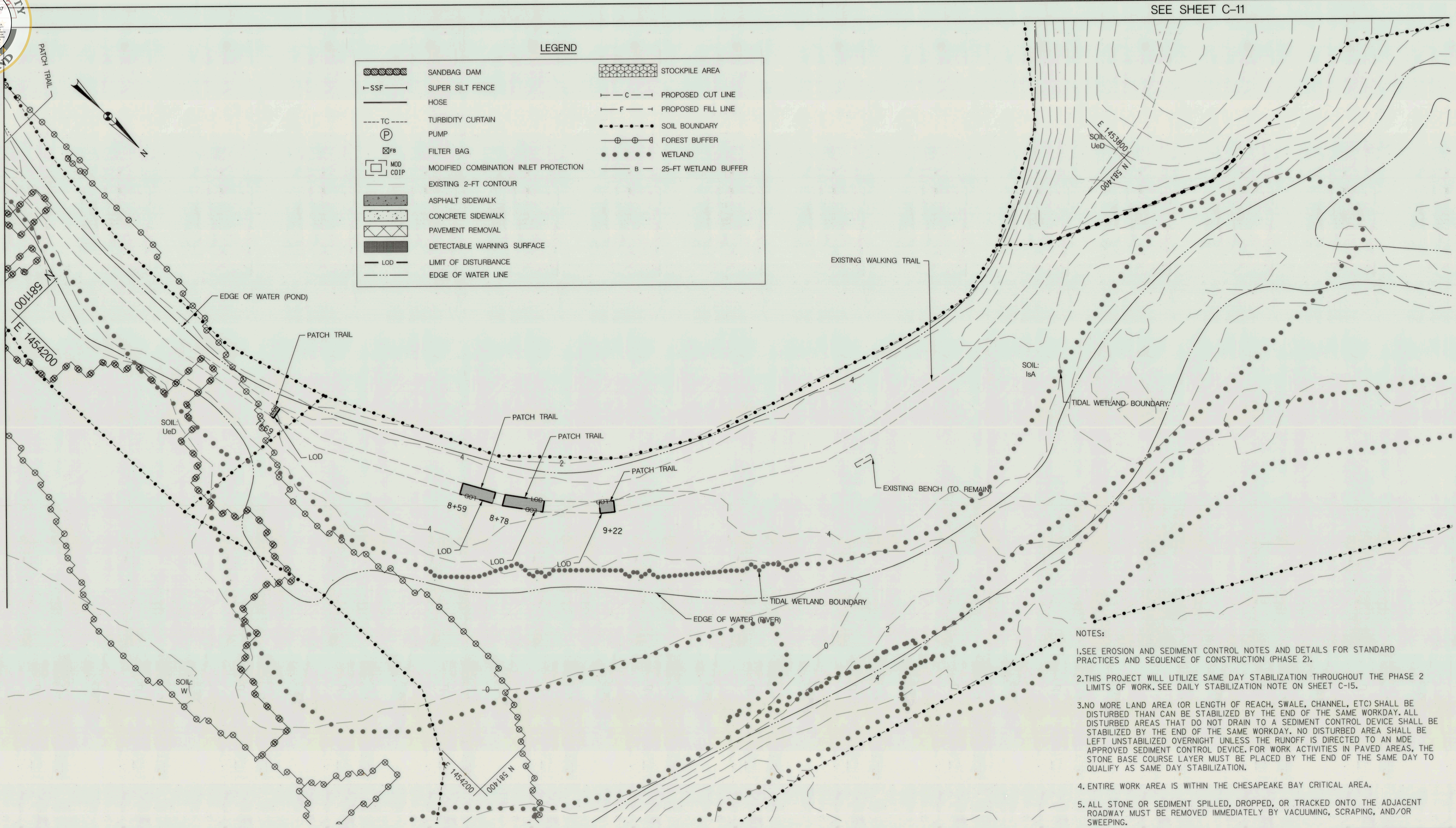
SHEET DESIGNATION	CONTRACT NUMBER
C-09	23119 GXO
	JOB ORDER NUMBER
	SHEET 11 OF 29
	DRAWING NUMBER
	2024-0058
	FILE NO.: 9

DWG. FILENAME:

8/22/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury Plan\Drawings\CADD\Working\pES-2002-Stansbury Park.dgn

SEE SHEET C-11

SEE SHEET C-09



PLAN
SCALE: 1" = 20'
SCALE: 1" = 20'

NOTES:

1. SEE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS FOR STANDARD PRACTICES AND SEQUENCE OF CONSTRUCTION (PHASE 2).
2. THIS PROJECT WILL UTILIZE SAME DAY STABILIZATION THROUGHOUT THE PHASE 2 LIMITS OF WORK. SEE DAILY STABILIZATION NOTE ON SHEET C-15.
3. NO MORE LAND AREA (OR LENGTH OF REACH, SWALE, CHANNEL, ETC) SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE SAME WORKDAY. ALL DISTURBED AREAS THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED BY THE END OF THE SAME WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE. FOR WORK ACTIVITIES IN PAVED AREAS, THE STONE BASE COURSE LAYER MUST BE PLACED BY THE END OF THE SAME DAY TO QUALIFY AS SAME DAY STABILIZATION.
4. ENTIRE WORK AREA IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
5. ALL STONE OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO THE ADJACENT ROADWAY MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING, AND/OR SWEEPING.

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Bachman 6-13-24
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

ESC 6 OF 11
MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

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Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
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			R.O.W NO.	ESW	14SE22	PROFILE SCALE:	AS SHOWN / AS SHOWN	PROPERTY MANAGER DATE:
CONTRACT COMPLETION BOX								
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	
REVIEWED BY:								
DATE REVIEWED:								

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

STANSBURY PARK - PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

PHASE 2 EROSION AND SEDIMENT CONTROL PLAN 3

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
C-10	23119 GXO
BALTIMORE COUNTY MARYLAND	JOB ORDER NUMBER
	SHEET 12 OF 29
	DRAWING NUMBER 2024-0059
	FILE NO.: 9 REV. 03/22

DWG. FILENAME:

6/11/2024
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APPROVED PERMIT PLAN SET
PERMIT #: CEN23-000087
PERMIT ISSUED DATE/TIME: 10/02/2024

THE ISSUE OF THESE PLANS DOES NOT INCLUDE THE OVERALL RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE LAWS, REGULATIONS AND RESTRICTIONS. ATTACHED DRAWINGS FOR THE DESIGN, ATTACHED DRAWINGS FOR THE CONSTRUCTION, AND ATTACHED DRAWINGS FOR THE USE, BUILDING AND SITE CODES INCLUDING BUT NOT LIMITED TO ZONING, SUBDIVISION, BUILDING, PLUMBING, MECHANICAL, AND ELECTRICAL CODES. ADDITIONAL COMMENTS MAY BE ATTACHED. APPROVED PLANS MUST BE KEPT AT THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

BALTIMORE COUNTY MARYLAND

N

SEE SHEET C-10

N 581200
E 1453500

N 581200
E 1453200

EDGE OF WATER (POND)

EXISTING WALKING TRAIL

PATCH TRAIL
LOD
13+27
LOD

PATCH TRAIL
LOD
13+97
LOD

PATCH TRAIL
LOD
15+48
LOD

EXISTING BENCH (TO REMAIN)

SOIL: UeB

SOIL: IsA

DENBURY DRIVE

MOORGATE ROAD

E 1453500
N 581500

LEGEND

SANDBAG DAM	STOCKPILE AREA	SOIL BOUNDARY
SSF — SUPER SILT FENCE		FOREST BUFFER
HOSE	C — PROPOSED CUT LINE	WETLAND
TC — TURBIDITY CURTAIN	F — PROPOSED FILL LINE	B — 25-FT WETLAND BUFFER
P — PUMP	ASPHALT SIDEWALK	
FB — FILTER BAG	CONCRETE SIDEWALK	
MOD COIP — MODIFIED COMBINATION INLET PROTECTION	PAVEMENT REMOVAL	
EXISTING 2-FT CONTOUR	DETECTABLE WARNING SURFACE	
EDGE OF WATER LINE	LOD — LIMIT OF DISTURBANCE	

PLAN
SCALE: 1" = 20'

20' 0 20' 40'
SCALE: 1" = 20'

NOTES:

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Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Ballman 6/13/24
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

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Consulting Engineers
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BY:
DATE:

DGN BY: AP
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CHKD BY: AP

AS-BUILT / REVISION	BY	DATE
CONTRACT COMPLETION BOX		

P.W.A. NO.	KEY SHEET	POSITION SHT
R.O.W NO.	ESW	14SE22

DRAWING SCALE
PLAN SCALE: AS SHOWN
PROFILE SCALE: AS SHOWN

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

PHASE 2 EROSION AND SEDIMENT CONTROL PLAN 4

SUBDIVISION: STANBROOK

ELECTION DIST. NO.: 12C7

ESC 7 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
C-11	23119 GXO
	JOB ORDER NUMBER
	SHEET 13 OF 29
	DRAWING NUMBER
	2024-0060
	FILE NO.: 9

BALTIMORE COUNTY MARYLAND

6/11/2024
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DWG. FILENAME:

B-4 STANDARDS AND SPECIFICATIONS

FOR

VEGETATIVE STABILIZATION

Definition

Using vegetation as cover to protect exposed soil from erosion.

Purpose

To promote the establishment of vegetation on exposed soil.

Conditions Where Practice Applies

On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization; and permanent stabilization.

Effects on Water Quality and Quantity

Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.

Adequate Vegetative Establishment

Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season.

1. Adequate vegetative stabilization requires 95 percent groundcover.
2. If an area has less than 40 percent groundcover, restabilize following the original recommendations for lime, fertilizer, seedbed preparation, and seeding.
3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.
4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

B-4-1 STANDARDS AND SPECIFICATIONS

FOR

INCREMENTAL STABILIZATION

Definition

Establishment of vegetative cover on cut and fill slopes.

Purpose

To provide timely vegetative cover on cut and fill slopes as work progresses.

Conditions Where Practice Applies

Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

Criteria

A. Incremental Stabilization - Cut Slopes

1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.
2. Construction sequence example (Refer to Figure B.1):
   a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around the excavation.
   b. Perform Phase 1 excavation, prepare seedbed, and stabilize.
   c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as necessary.
   d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

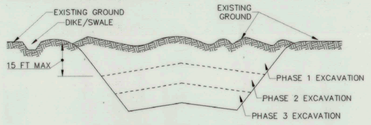

Figure B.1: Incremental Stabilization – Cut

B. Incremental Stabilization - Fill Slopes

1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses.
2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.
3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
4. Construction sequence example (Refer to Figure B.2):
   a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around the fill. Construct silt fence on low side of fill unless other methods shown on the plans address this area.
   b. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
   c. Place Phase 1 fill, prepare seedbed, and stabilize.
   d. Place Phase 2 fill, prepare seedbed, and stabilize.
   e. Place final phase fill, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

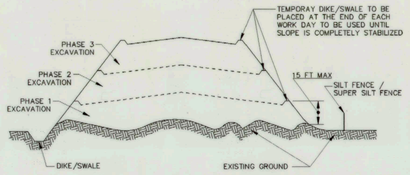

Figure B.2: Incremental Stabilization – Fill

B-4-2 STANDARDS AND SPECIFICATIONS

FOR

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition

The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established.

Criteria

A. Soil Preparation

1. Temporary Stabilization
   a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
   b. Apply fertilizer and lime as prescribed on the plans.
   c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Stabilization
   a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
      i. Soil pH between 6.0 and 7.0.
      ii. Soluble salts less than 500 parts per million (ppm).
      iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
      iv. Soil contains 1.5 percent minimum organic matter by weight.
      v. Soil contains sufficient pore space to permit adequate root penetration.
   b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
   c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
   d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
   e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

B. Topsoiling

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.
3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
   a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
   b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
   c. The original soil to be vegetated contains material toxic to plant growth.
   d. The soil is so acidic that treatment with limestone is not feasible.
4. Areas having slopes steeper than 2:1 require special consideration and design.
5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
   a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1½ inches in diameter.
   b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
   c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
6. Topsoil Application
   a. Erosion and sediment control practices must be maintained when applying topsoil.
   b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
   c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.
3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.
4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Backman 6.13.24
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CONTRACT COMPLETION BOX

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REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE: N.T.S.
PROFILE SCALE: N.T.S. N.T.S.

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
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BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

EROSION & SEDIMENT CONTROL NOTES AND DETAILS 1

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

ESC 8 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
C-12	23119 GXO
	JOB ORDER NUMBER
	SHEET 14 OF 29
	DRAWING NUMBER 2024-0061
	FILE NO.: 9

DWG. FILENAME:

6/6/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-StansburyPter\Drawings\CADD\WorKing\DES-N000_StansburyPark.dgn

B-4-3 STANDARDS AND SPECIFICATIONS

FOR

SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

Purpose

To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

Criteria

A. Seeding

1. Specifications
   a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
   b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
   c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
   d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

2. Application
   a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.
      i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
      ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact.
   b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
      i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
      ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
   c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
      i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P_2O_5 (phosphorous), 200 pounds per acre; K_2O (potassium), 200 pounds per acre.
      ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
      iii. Mix seed and fertilizer on site and seed immediately and without interruption.
      iv. When hydroseeding do not incorporate seed into the soil.

B. Mulching

1. Mulch Materials (in order of preference)
   a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. **Note: Use only sterile straw mulch in areas where one species of grass is desired.**
   b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
      i. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
      ii. WCFM, including dye, must contain no germination or growth inhibiting factors.
      iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
      iv. WCFM material must not contain elements or compounds at concentration levels that will be phyto-toxic.
      v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

2. Application
   a. Apply mulch to all seeded areas immediately after seeding.
   b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
   c. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

3. Anchoring
   a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
      i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
      ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
      iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. **Use of asphalt binders is strictly prohibited**.
      iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.

B-4-4 STANDARDS AND SPECIFICATIONS

FOR

TEMPORARY STABILIZATION

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Criteria

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season.

B-4-5 STANDARDS AND SPECIFICATIONS

FOR

PERMANENT STABILIZATION

Definition

To stabilize disturbed soils with permanent vegetation.

Purpose

To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for 6 months or more.

Criteria

A. Seed Mixtures

1. General Use
   a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
   b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
   c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.
   d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 ½ pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary .

2. Turfgrass Mixtures
   a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
   b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.
      i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
      ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
      iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.
      iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1½ to 3 pounds per 1000 square feet.

      Notes:
      Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"

      Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line

   c. Ideal Times of Seeding for Turf Grass Mixtures

      Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)

      Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b)

      Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)

   d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1½ inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
   e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (½ to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

Temporary Seeding Summary

Hardiness Zone (from Figure B.3): 7b **Seed Mixture** (from Table B.1):					**Fertilizer Rate (10-20-20)**	**Lime Rate**
No.	**Species**	**Application Rate (lb/ac)**	**Seeding Dates**	**Seeding Depths**		
	FOXTAIL MILLET (SETARIA ITALICA)	30	MAY 1 – AUG 14	0.5"	436 lb/ac (10 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
	PEARL MILLET (PENNISETUM GLAUCUM)	20	MAY 1 – AUG 14	0.5"		
	OATS (AVENA SATIVA)	72	FEB 15 – APR 30 AUG 15 – NOV 30	1.0"		
	ANNUAL RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM)	40	FEB 15 – APR 30 AUG 15 – NOV 30	0.5"		

Permanent Seeding Summary

Hardiness Zone (from Figure B.3): 7b **Seed Mixture** (from Table B.3): 7					**Fertilizer Rate (10-20-20)**			**Lime Rate**
No.	**Species**	**Application Rate (lb/ac)**	*** Seeding Dates**	**Seeding Depths**	**N**	**P_2O_5**	**K_20**	
7	CREEPING RED FESCUE (FESTUCA RUBRA VAR. RUBRA)	60	FEB 15 – APR 30	¼- ½ in	45 pounds per acre (1.0 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	2 tons/ac (90 lb/ 1000 sf)
	KENTUCKY BLUEGRASS (POA PRATENSIS)	15	AUG 15 – OCT 31	¼- ½ in				
				¼- ½ in				

* FOR THE DATES MAY 1 TO AUG 14, ADD 3.75 LB/AC OF FOXTAIL OR PEARL MILLET TO PERMANENT MIX #7 ABOVE

B-4-5 (CONTINUED)

B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

1. General Specifications
   a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
   b. Sod must be machine cut at a uniform soil thickness of ¾ inch, plus or minus ¼ inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.
   c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
   d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
   e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation.

2. Sod Installation
   a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
   b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
   c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
   d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.

3. Sod Maintenance
   a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.
   b. After the first week, sod watering is required as necessary to maintain adequate moisture content.
   c. Do not mow until the sod is firmly rooted. No more than ⅓ of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Baltmon 6.13.24
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

BAI
BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SEAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 52748 , EXPIRATION DATE 06/03/2026 .

ENGINEER: ANKUR PATEL

AS-BUILT PER RECORD PRINT

BY: DATE:

DGN BY: AP
DWN BY: CC
CHKD BY: AP

AS-BUILT / REVISION | BY | DATE | P.W.A. NO.

CONTRACT COMPLETION BOX

R.O.W NO.

KEY SHEET: ESW | POSITION SHT: 14SE22

DRAWING SCALE
PLAN SCALE: N.T.S.
PROFILE SCALE: N.T.S. N.T.S.

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

EROSION & SEDIMENT CONTROL NOTES AND DETAILS 2

SUBDIVISION: **STANBROOK**

ELECTION DIST. NO.: **12C7**

ESC 9 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
C-13	23119 GXO

JOB ORDER NUMBER

SHEET 15 OF 29

DRAWING NUMBER 2024-0062

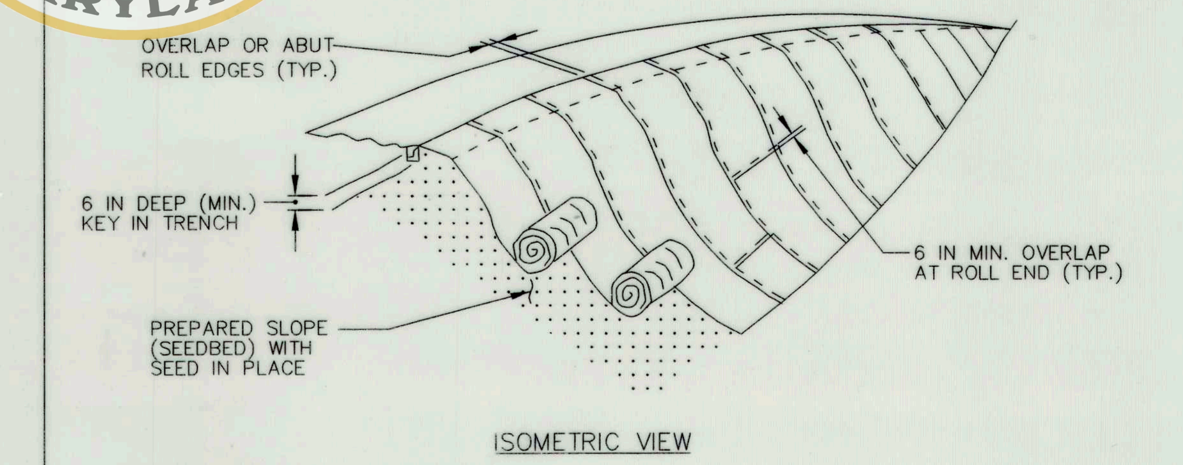
FILE NO.: 9

DWG. FILENAME:

6/6/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stransbury Park\Drawings\CADD\Working\pE5-N00_Stransbury Park.dgn

DETAIL B-4-6-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION

STANDARD SYMBOL
TSSMS – 2 lb/ft²
(* INCLUDE SHEAR STRESS)



ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS

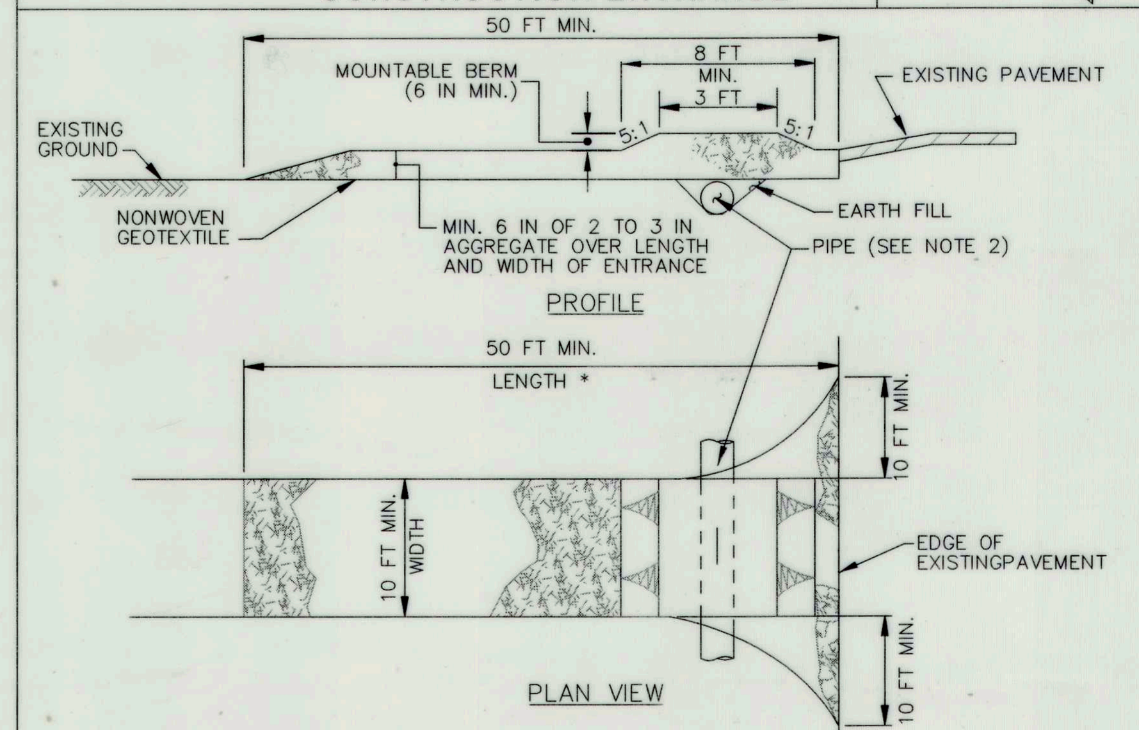
1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
5. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
7. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL
SCE



CONSTRUCTION SPECIFICATIONS

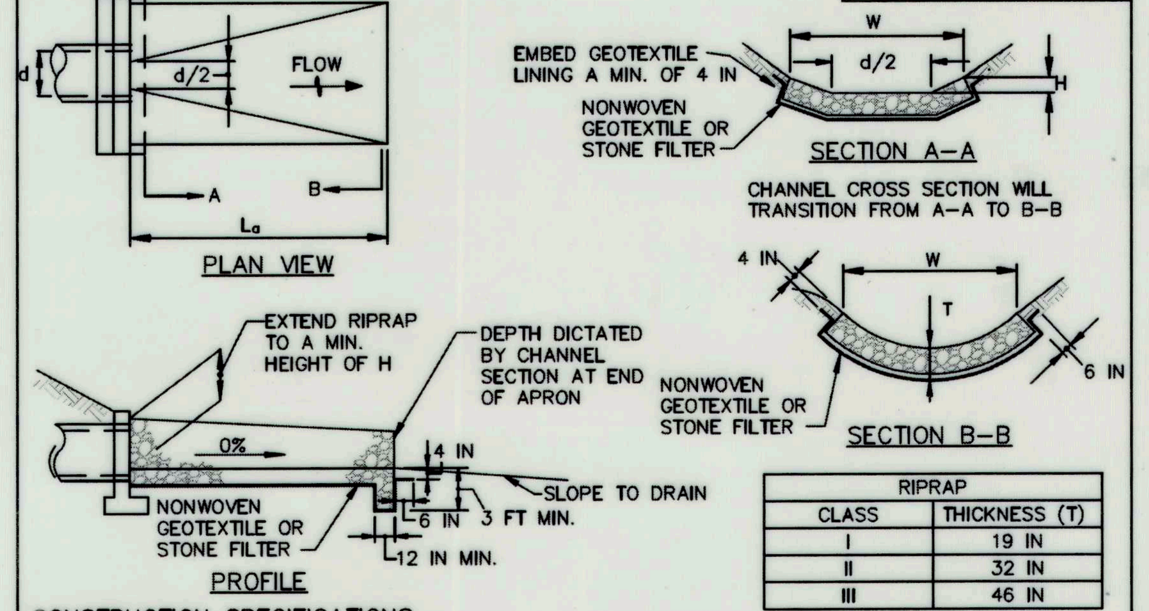
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

DETAIL D-4-1-A ROCK OUTLET PROTECTION I

STANDARD SYMBOL
ROP1
DISCHARGE TO SEMI CONFINED CHANNEL SECTION



RIPRAP	
CLASS	THICKNESS (T)
I	19 IN
II	32 IN
III	46 IN

CONSTRUCTION SPECIFICATIONS

1. RIPRAP AND STONE MUST CONFORM TO THE SPECIFIED CLASS.
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, AND PROTECT FROM PUNCTURING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE TOGETHER.
3. PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (⅜ TO 1½ INCH STONE FOR 6 INCH MINIMUM DEPTH) AND RIPRAP TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
4. EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RIPRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF THE RIPRAP.
5. CONSTRUCT RIPRAP OUTLET TO FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. PLACE STONE FOR RIPRAP OUTLET IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE RIPRAP IN A MANNER TO PREVENT DAMAGE TO THE STONE FILTER BLANKET OR GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY.
6. WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIDTH IS TWO TIMES THE DIAMETER OF THE OUTLET PIPE, AND EXTEND THE STONE UNDER THE OUTLET BY A MINIMUM OF 18 INCHES.
7. CONSTRUCT APRON WITH 0% SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STONE SO THAT IT BLENDS IN WITH EXISTING GROUND.
8. MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND DISLODGED RIPRAP. MAKE NECESSARY REPAIRS IMMEDIATELY.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access the stockpile area from the upgrade side.
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

B.43

MGWC 1.5: SANDBAG/STONE CHANNEL DIVERSION

Temporary measure for dewatering in-channel construction sites

DESCRIPTION

The work should consist of installing sandbag or stone flow diversions for the purpose of erosion control when construction activities occur within the stream channel.

EFFECTIVE USES & LIMITATIONS

Diversions are used to isolate work areas from flow during the construction of in-stream projects. Diversions which have an insufficient flow capacity can fail and severely erode the disturbed channel section under construction. Therefore, in-channel construction activities should occur only during periods of low rainfall. This temporary measure may not be practical in large channels.

MATERIAL SPECIFICATIONS

Materials for sandbag and stone stream diversions should meet the following requirements:

- *Riprap*: Riprap should be washed and have a minimum diameter of 6 inches (0.15 meters).
- *Sandbags*: Sandbags should consist of materials which are resistant to ultra-violet radiation, tearing, and puncture and should be woven tightly enough to prevent leakage of the fill material (i.e., sand, fine gravel, etc.).
- *Sheeting*: Sheeting should consist of polyethylene or other materials which are impervious and resistant to puncture and tearing.

INSTALLATION GUIDELINES

All erosion and sediment control devices, including dewatering basins, should be implemented as the first order of business according to a plan approved by the WMA or local authority. Installation should proceed from upstream to downstream during periods of low flow. If necessary, silt fence or straw bales should be installed around the perimeter of the work area.

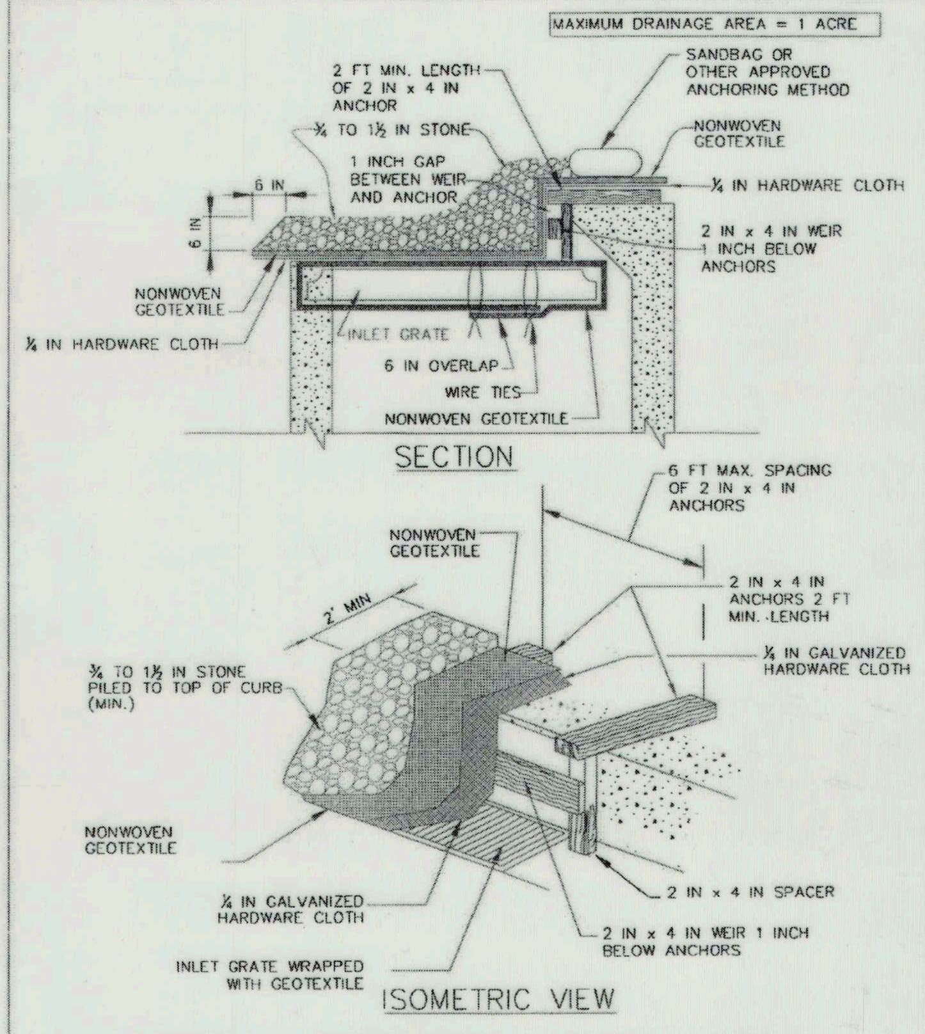
Sandbag/stone diversions can be used independently or as components of other stream diversion techniques. Installation of this measure should proceed as follows (refer to Detail 1.5):

1. The diversion structure should be installed from upstream to downstream.
2. The height of the sandbag/stone diversion should be a function of the duration of the project in the stream reach. For projects with a duration less than 2 weeks, the height of the diversion should be one half the streambank height, measured from the channel bed, plus 1 foot (0.3 meters) or bankfull height, whichever is greater. For projects of longer duration, the top of the sandbag or stone diversion should correspond to bankfull height. For diversion structures utilizing sandbags, the stream bed should be hand prepared prior to placement of the base layer of sandbags in order to ensure a water tight fit. Additionally, it may be necessary to prepare the bank in a similar fashion.
3. All excavated material should be deposited and stabilized in an approved area outside the 100-year floodplain unless otherwise authorized by the WMA.
4. Sediment-laden water from the construction area should be pumped to a dewatering basin.
5. Sheeting on the diversion should be positioned such that the upstream portion covers the downstream portion with at least a 18-inch (0.45 meters) overlap.
6. Sandbag or stone diversions should not obstruct more than 45% of the stream width. Additionally, bank stabilization measures should be placed in the constricted section if accelerated erosion and bank scour are observed during the construction time or if project time is expected to last more than 2 weeks.
7. Prior to removal of these temporary structures, any accumulated sediment should be removed, deposited and stabilized in an approved area outside the 100-year floodplain unless authorized by the WMA.
8. Sediment control devices are to remain in place until all disturbed areas are stabilized in accordance with an approved sediment and erosion control plan and the inspecting authority approves their removal.

DETAIL E-9-6 COMBINATION INLET PROTECTION

STANDARD SYMBOL
MOD COIP

MAXIMUM DRAINAGE AREA = 1 ACRE



NOTE: HARDWARE CLOTH, GEOTEXTILE AND STONE SHALL EXTEND 2 FEET BEYOND THROAT ON EACH SIDE.

MODIFIED FOR SUMP

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MODIFIED FOR USE IN BALTIMORE COUNTY

DETAIL E-9-6 COMBINATION INLET PROTECTION

STANDARD SYMBOL
MOD COIP

CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH x 4 INCH LUMBER.
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. LIFT GRATE, AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS, THEN SET GRATE BACK IN PLACE.
4. NAIL THE 2X4 WEIR (1 INCH BELOW THE ANCHORS) TO THE TOP OF A 9 INCH LONG VERTICAL SPACER, LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAXIMUM 4 FEET APART).
5. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2X4 ANCHORS (MINIMUM 2 FOOT LENGTHS) AT SPACER LOCATIONS. EXTEND 2X4 ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
6. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
7. ATTACH A CONTINUOUS PIECE OF ⅛ INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 60 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO 2 FEET BEYOND THE TOP OF CURB, EXTENDING 2 FEET BEYOND THROAT ON EACH SIDE.
8. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH.
9. FORM THE ⅛ INCH HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE OVER THE HARDWARE CLOTH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MODIFIED FOR SUMP

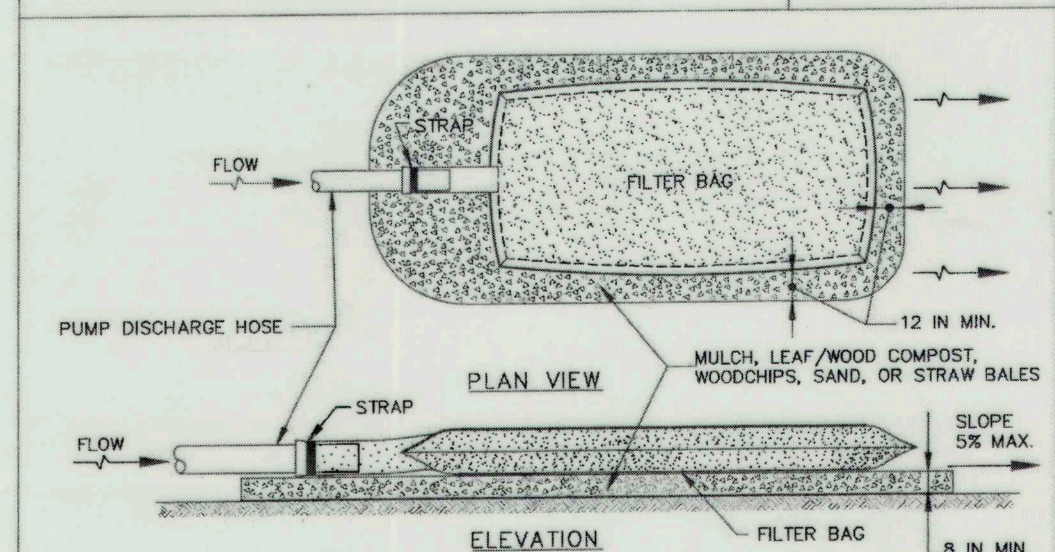
2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MODIFIED FOR USE IN BALTIMORE COUNTY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED–2013	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL F-4 FILTER BAG

STANDARD SYMBOL
FB



CONSTRUCTION SPECIFICATIONS

1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT²	ASTM D-4491
PERMITTIVITY (SEC^{-1})	1.2 SEC^{-1}	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15–0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632

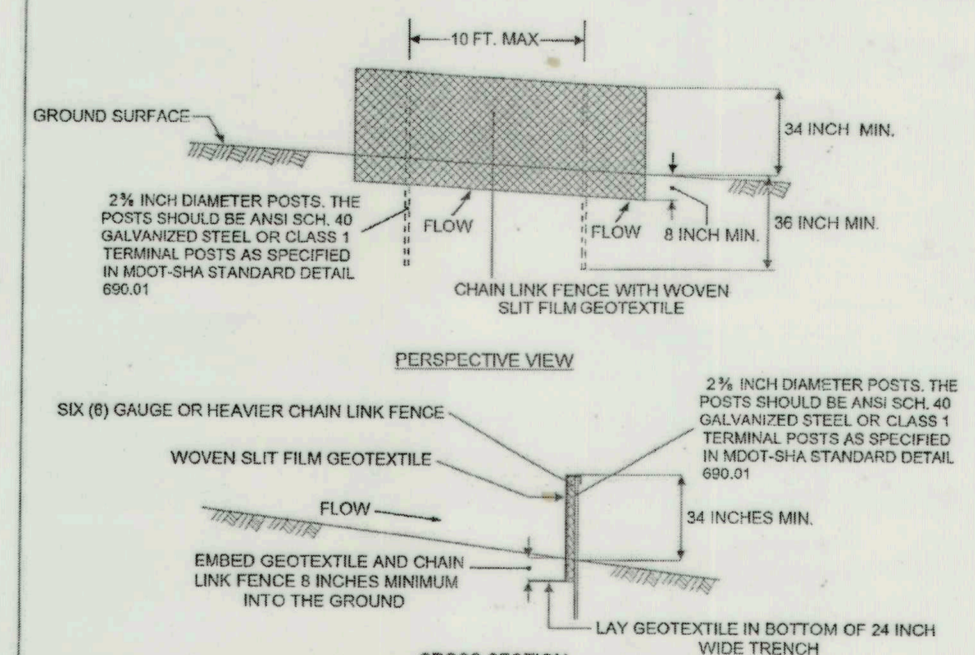
6. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL
SSF



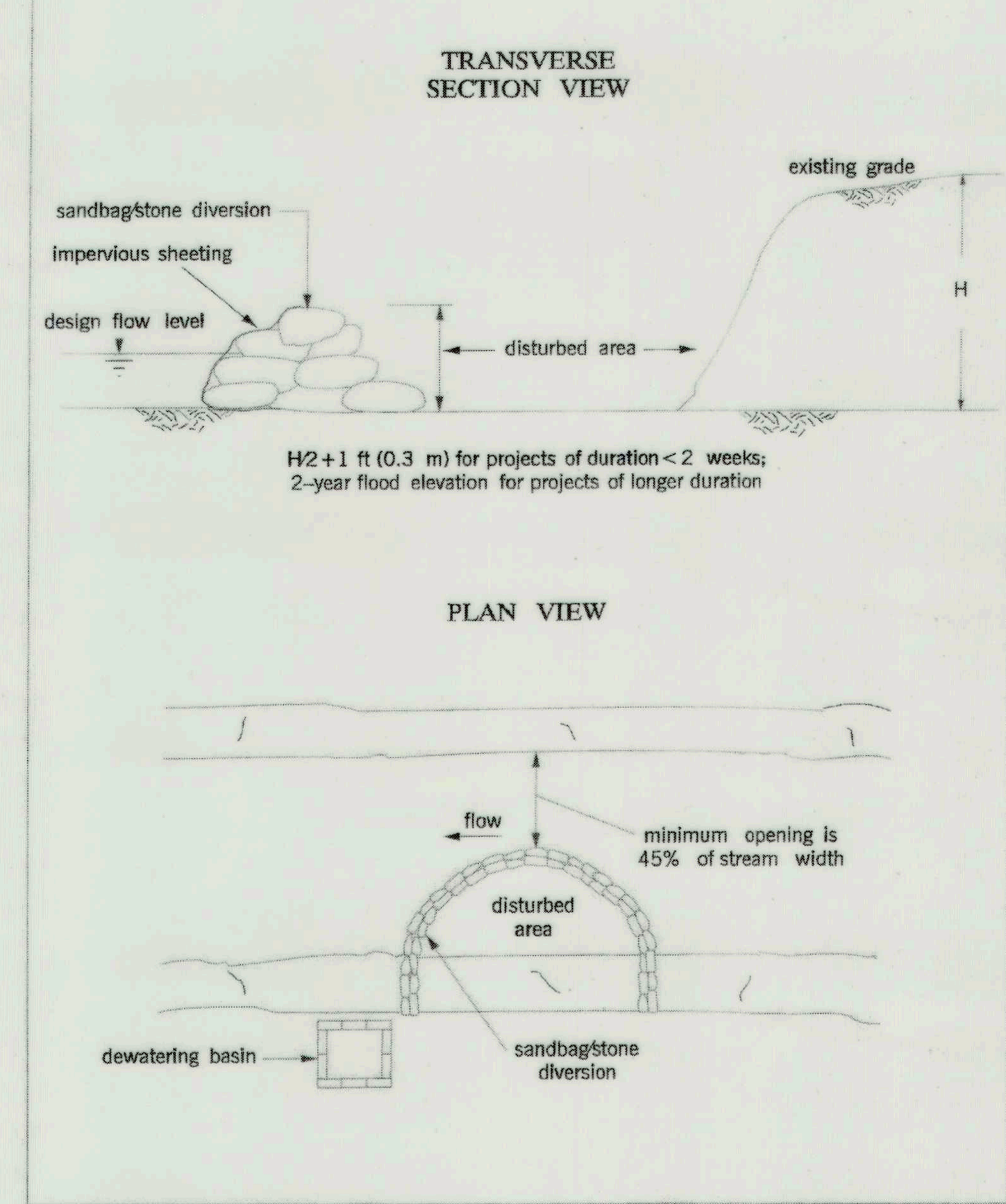
CONSTRUCTION SPECIFICATIONS

1. INSTALL 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.15 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 6 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2⅜ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H -1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. LAY THE GEOTEXTILE IN THE BOTTOM OF THE 24 INCH WIDE TRENCH.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BYPASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE UPHILL A MINIMUM OF 3 VERTICAL FEET TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURERS CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H - 1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF THE FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

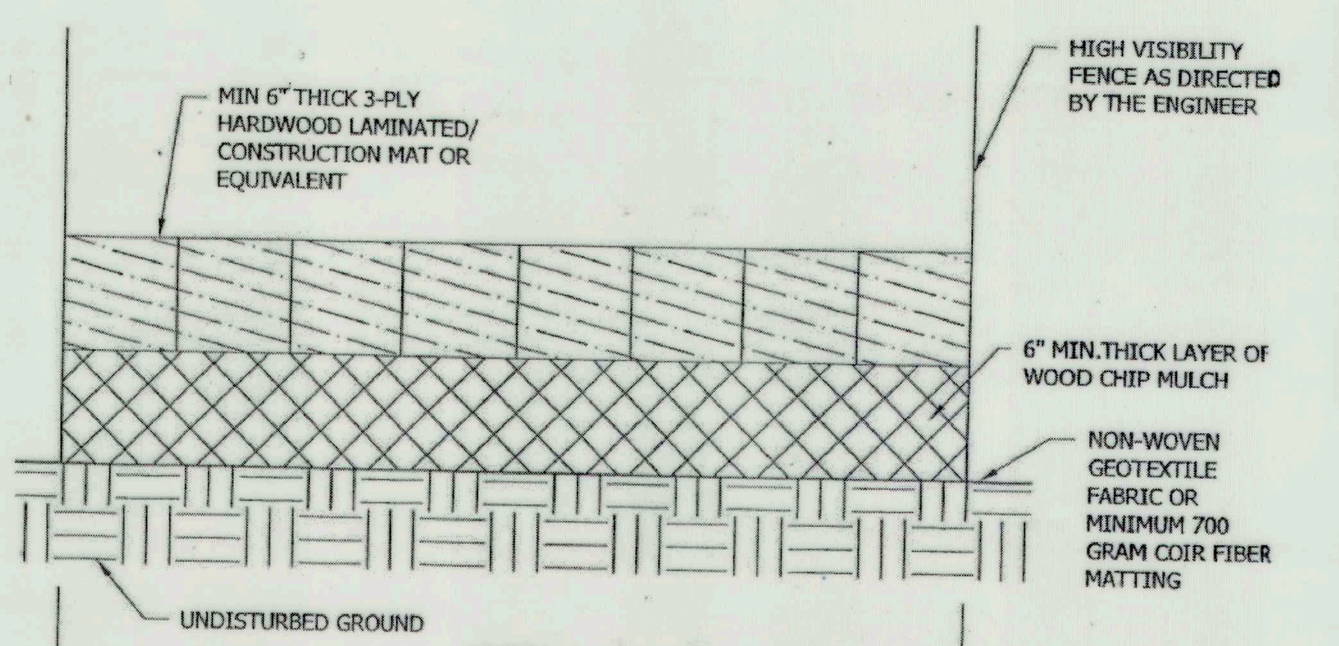
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MODIFIED FOR USE IN BALTIMORE COUNTY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED - 2012 REVISED - 5/2023	MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Maryland's Guidelines To Waterway Construction DETAIL 1.5: SANDBAG/STONE DIVERSION



TEMPORARY INSTREAM CONSTRUCTION MEASURES	REVISED NOVEMBER 2000 PAGE 1.5 – 3	MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



TIMBER MAT ACCESS PATH DETAIL
NOT TO SCALE

TIMBER MAT ACCESS PATH DETAIL NOTES:

1. NOTE: TIMBER MAT ACCESS PATH IS REQUIRED WHEN CROSSING THE CROMIUM CAP AREAS MARKED ON PLANS.
2. MATS SHALL BE PLACED END TO END TO FORM A CONTINUOUS SPAN FOR THE ENTIRE LENGTH OF THE AREA TO BE PROTECTED.
3. MATS SHALL BE INSPECTED FREQUENTLY AND MAINTAINED OR REPLACED AS NECESSARY TO ENSURE THEIR PROPER FUNCTION.
4. INDIVIDUAL MATS SHALL BE SECURELY CONSTRUCTED WITH INDIVIDUAL COMPONENT LAYERS BOLTED, CABLED OR OTHERWISE SECURELY FASTENED.
5. TIMBER MATS SHALL EITHER BE NEW OR POWER WASHED PRIOR TO ARRIVING ON SITE IF PREVIOUSLY USED.

R-1 8/29/24 DB
Baltimore County Soil Conservation District APPROVED FOR SEDIMENT CONTROL
Dave Bachman 8-29-24
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

ESC 10 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

BAI
BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SEAL: STATE OF MARYLAND ANKUR PATEL No. 52748 PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 52748, EXPIRATION DATE 06/03/2026

ENGINEER: ANKUR PATEL	DGN BY: AP
AS-BUILT PER RECORD PRINT	DWN BY: CC
BY: DATE:	CHKD BY: AP

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
			R.O.W NO.	ESW	14SE22	PLAN SCALE:	N.T.S.
CONTRACT COMPLETION BOX						PROFILE SCALE:	N.T.S. / N.T.S.
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

EROSION & SEDIMENT CONTROL NOTES AND DETAILS 3

SUBDIVISION: STANBROOK
ELECTION DIST. NO.: 12C7

SHEET DESIGNATION	CONTRACT NUMBER
C-14	23119 GXO
	JOB ORDER NUMBER
	SHEET 16 OF 29
	DRAWING NUMBER
	2024-0063
	FILE NO.: 9 REV. 03/22

DWG. FILENAME:

8/22/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-StansburyPier\Drawings\CADD\Working\pES-N002_StansburyPark.dgn

H-1 STANDARDS AND SPECIFICATIONS FOR MATERIALS

Table H.1: Geotextile Fabrics

		WOVEN SLIT FILM GEOTEXTILE		WOVEN MONOFILAMENT GEOTEXTILE		NONWOVEN GEOTEXTILE	
		MINIMUM AVERAGE ROLL VALUE[1]					
PROPERTY	TEST METHOD	MD	CD	MD	CD	MD	CD
Grab Tensile Strength	ASTM D-4632	200 lb	200 lb	370 lb	250 lb	200 lb	200 lb
Grab Tensile Elongation	ASTM D-4632	15%	10%	15%	15%	50%	50%
Trapezoidal Tear Strength	ASTM D-4533	75 lb	75 lb	100 lb	60 lb	80 lb	80 lb
Puncture Strength	ASTM D-6241	450 lb		900 lb		450 lb	
Apparent Opening Size[2]	ASTM D-4751	U.S. Sieve 30 (0.59 mm)		U.S. Sieve 70 (0.21 mm)		U.S. Sieve 70 (0.21 mm)	
Permittivity	ASTM D-4491	0.05 sec^{-1}		0.28 sec^{-1}		1.1 sec^{-1}	
Ultraviolet Resistance Retained at 500 hours	ASTM D-4355	70% strength		70% strength		70% strength	

[1] All numeric values except apparent opening size (AOS) represent minimum average roll values (MARV). MARV is calculated as the typical minus two standard deviations. MD is machine direction; CD is cross direction.

[2] Values for AOS represent the average maximum opening.

Geotextiles must be evaluated by the National Transportation Product Evaluation Program (NTPEP) and conform to the values in Table H.1.

The geotextile must be inert to commonly encountered chemicals and hydrocarbons and must be rot and mildew resistant. The geotextile must be manufactured from fibers consisting of long chain synthetic polymers and composed of a minimum of 95 percent by weight of polyolefins or polyesters, and formed into a stable network so the filaments or yarns retain their dimensional stability relative to each other, including selvages.

When more than one section of geotextile is necessary, overlap the sections by at least one foot. The geotextile must be pulled taut over the applied surface. Equipment must not run over exposed fabric. When placing riprap on geotextile, do not exceed a one foot drop height.

GENERAL NOTES

1. REFER TO "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.

2. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT.

3. AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.

4. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN: A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1),AND B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

5. ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO BALTIMORE COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.

6. DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PG. H.22, FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.

7. ANY VARIATIONS FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.

8. EXCESS CUT OR BORROW MATERIAL SHALL GO TO, OR COME FROM, RESPECTIVELY, A SITE WITH AN OPEN GRADING PERMIT AND APPROVED SEDIMENT CONTROL PLAN.

9. THE FOLLOWING ITEM MAY BE USED AS APPLICABLE: REFER TO "MARYLAND'S GUIDELINES TO WATERWAY CONSTRUCTION" BY THE WATER MANAGEMENT ADMINISTRATION OF THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, REVISED NOVEMBER 2000, FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.

10. PUMPING SEDIMENT-LADEN WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED. ANY PORTABLE DEWATERING DEVICE MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE.

11. UPON INSTALLATION OF THE BASE PAVEMENT AND AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR, RELOCATE THE STABILIZED CONSTRUCTION ENTRANCE(S) AND INSTALL ADDITIONAL CONTROL MEASURES (STABILIZED CONSTRUCTION ENTRANCES, SILT FENCES, SUPER SILT FENCES,) AS NEEDED TO CONTROL SEDIMENT RUNOFF FROM DISTURBED AREAS. THE ADDITIONAL CONTROLS MUST NOT ALTER DRAINAGE PATTERNS.

MAINTENANCE NOTE:

CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

DAILY STABILIZATION NOTE

CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY.
STABILIZATION SHALL BE AS FOLLOWS:
1) FOR AREAS TO BE PAVED, THE APPLICATION OF STONE BASE.
2) FOR AREAS TO BE VEGETATIVELY STABILIZED:
a) PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
b) PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.

ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWNSLOPE SIDE.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

1. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS (BCDPW) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED 2000 WITH ADDENDA 1 TO 3, MARYLAND DEPARTMENT OF TRANSPORTATION /STATE HIGHWAY ADMINISTRATION (MDOT-SHA) BOOK OF STANDARDS AND INCIDENTAL STRUCTURES, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE 2011 MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD).

2. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TRAFFIC CONTROL SIGN AND DEVICES. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION IN ACCORDANCE WITH THE METHODS OF THE TRAFFIC CONTROL REFERENCED ON THIS SHEET, THE MDMUTCD AND REVISIONS THERETO.

3. ANY WORK WITHIN THE TRAVELED PORTION OF ROADWAYS SHALL BE RESTRICTED TO THE HOURS OF 9:00 AM TO 3:00 PM, MONDAY THROUGH FRIDAY. WORK DURING NIGHTTIME, WEEKENDS AND HOLIDAYS SHALL NOT OCCUR UNLESS AN EXCEPTION IS GRANTED IN WRITING BY THE BCDPW.

4. CONSTRUCTION ACTIVITY, INCLUDING LOADING OR UNLOADING OF EQUIPMENT, SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.

5. ACCESS TO ALL DRIVEWAYS IN THE WORK AREA SHALL BE MAINTAINED UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER. HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

6. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MUTCD/MDMUTCD. ALL SIGNS, TRAFFIC DRUMS AND CONES SHALL BE REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING PER APPLICABLE BCDPW OR MDOT SHA STANDARDS.

7. PROVISION SHALL BE MADE FOR SAFE MAINTENANCE OF PEDESTRIAN AND BICYCLE TRAFFIC, INCLUDING APPROPRIATE AMERICANS WITH DISABILITIES ACT (ADA) ACCOMMODATIONS THROUGHOUT CONSTRUCTION DURATION.

8. SIGNS, DRUMS, TRAFFIC CONES, AND FLAGGING OPERATIONS SHALL BE PLACED IN ACCORDANCE WITH MDOT-SHA STANDARD MD 104.02-10 FLAGGING OPERATION /2-LANE, 2-WAY LESS THAN OR EQUAL TO 40 MPH.

9. CONSTRUCTION VEHICLES SHALL HAVE APPROPRIATE AMBER FLASHING WARNING LIGHTS THAT PROVIDE 360-DEGREE VISIBILITY.

10. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED 30' FROM THE TRAVEL LANES AT ALL TIMES.

TEMPORARY STOCKPILE NOTE:

TEMPORARY STOCKPILES SHALL BE:
1. LOCATED WITHIN THE LIMIT OF DISTURBANCE (LOD).
2. DRAIN TO A FUNCTIONING SEDIMENT CONTROL DEVICE.
3. POSITIONED TO NOT IMPEDE UPON, OR IMPAIR THE FUNCTION OF SAID DEVICE.
4. POSITIONED TO NOT ALTER DRAINAGE DIVIDES.

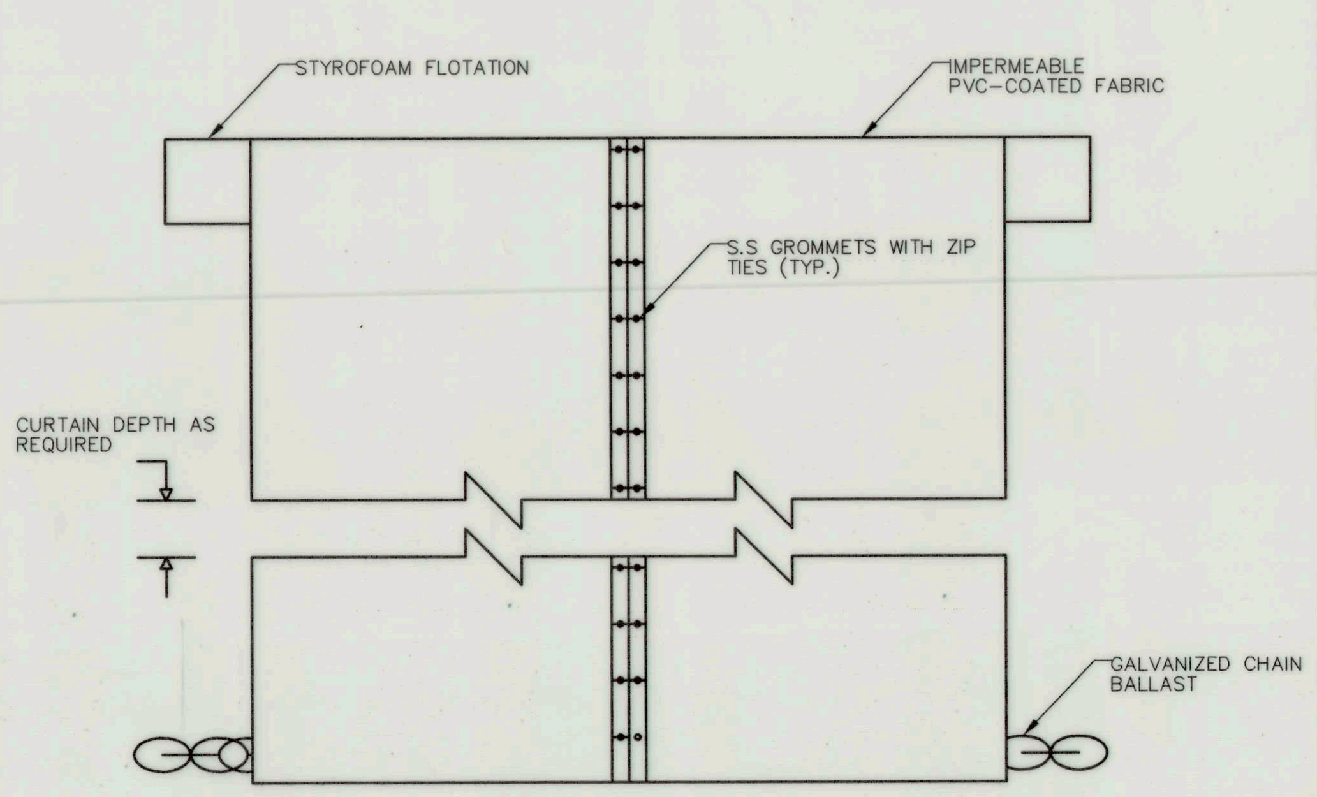
INLET PROTECTION NOTE:

THE CONTRACTOR IS REQUIRED TO INSTALL INLET PROTECTION ON ALL STORM DRAIN INLETS WITH THE EXCEPTION OF THE FOLLOWING:
1*. ANY INLET OUTFALLING DIRECTLY INTO A SEDIMENT TRAPPING DEVICE.
2. INLETS ON PRIVATE OR PUBLIC PAVED ROADWAYS OPEN TO THE PUBLIC.

ALL INLET PROTECTIONS WILL BE INSTALLED AS DIRECTED BY THE INSPECTOR IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PAGE E.23 (OR AS MAY BE AMENDED). THE REMOVAL OF ANY INLET PROTECTION DEVICES WILL REQUIRE APPROVAL FROM THE INSPECTOR.

*: STORM DRAINS TO BE FLUSHED PRIOR TO TRAPPING DEVICE MATERIAL.

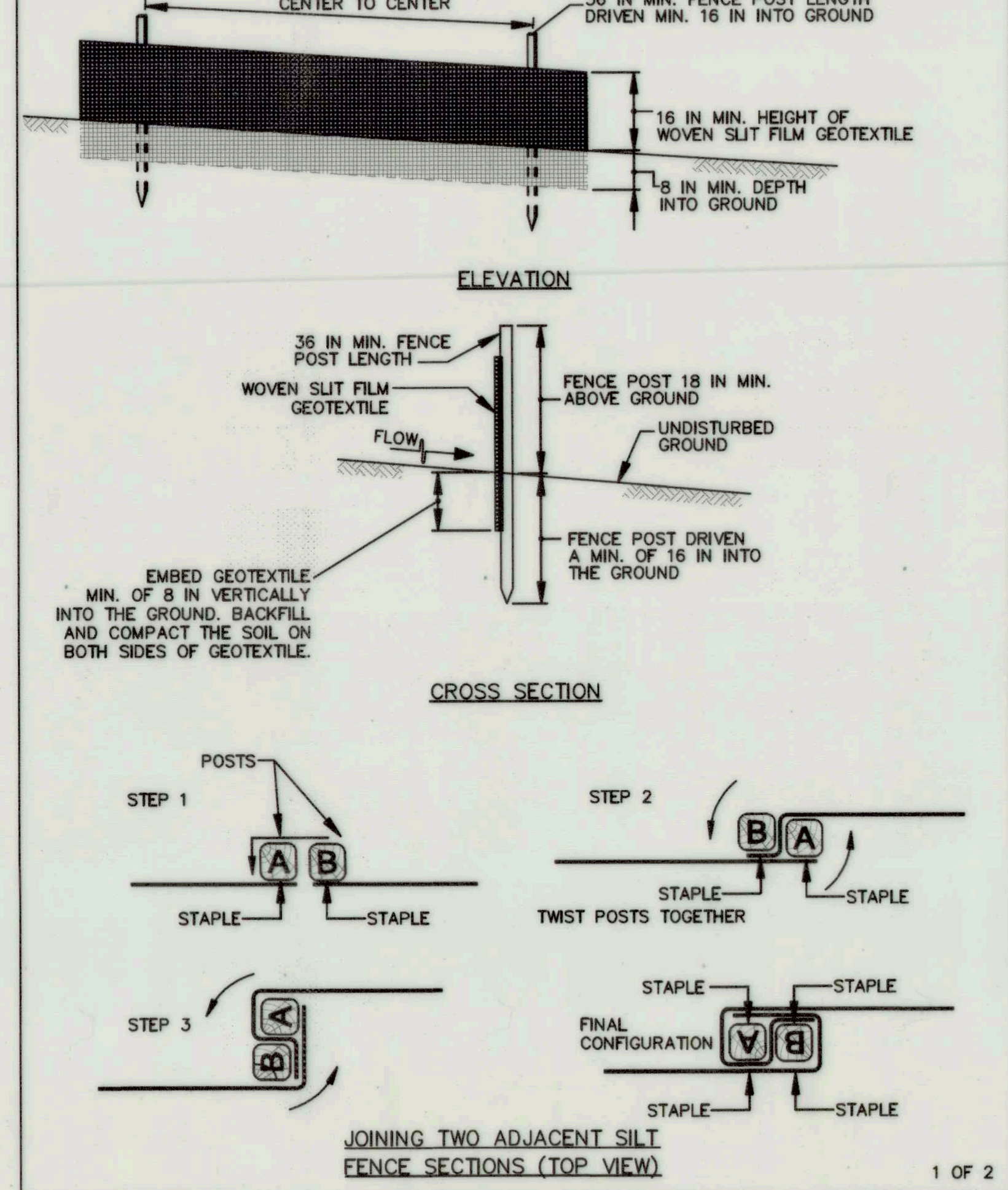
TURBIDITY CURTAIN (NOT TO SCALE)



GENERIC TURBITY CURTAIN SHOWN. ACTUAL TURBITY CURTAIN MAY DIFFER IN CONSTRUCTION AND MATERIALS. USE ENVIRO-USA TYPE 2 DOT TURBIDITY CURTAIN, ABASCO TYPE 2 DOT TURBIDITY CURTAIN, OR APPROVED EQUAL. INSTALL TURBIDITY CURTAIN PER MANUFACTURER REQUIREMENTS.
CURTAIN MUST BE INTALLED WITH SUFFICIENT SLACK TO ACCOUNT FOR TIDAL ACTION AND ANCHORED AS NECESSARY TO KEEP BOTTOM OF CURTAIN IN POND BED.

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: ⊢—SF—⊣



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: ⊢—SF—⊣

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/16 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Balkmon 6-13-24
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

BAI
BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

SEAL: STATE OF MARYLAND ANKUR PATEL No. 52748 PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 52748 , EXPIRATION DATE 06/03/2026 .
ENGINEER: ANKUR PATEL
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: AP
DWN BY: CC
CHKD BY: AP

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	PROPERTY MANAGEMENT
						PLAN SCALE: N.T.S.	APPROVED BY: PROPERTY MANAGER
			R.O.W NO.	ESW	14SE22	N.T.S.	
CONTRACT COMPLETION BOX						PROFILE SCALE: N.T.S.	DATE:

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

EROSION & SEDIMENT CONTROL NOTES AND DETAILS 4

SUBDIVISION: STANBROOK
ELECTION DIST. NO.: 12C7

ESC 11 OF 11

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
C-15	23119 GXO
	JOB ORDER NUMBER

BALTIMORE COUNTY MARYLAND

DRAWING NUMBER 2024-0063
FILE NO.: 9 REV. 03/22
DWG. FILENAME:

6/6/2024
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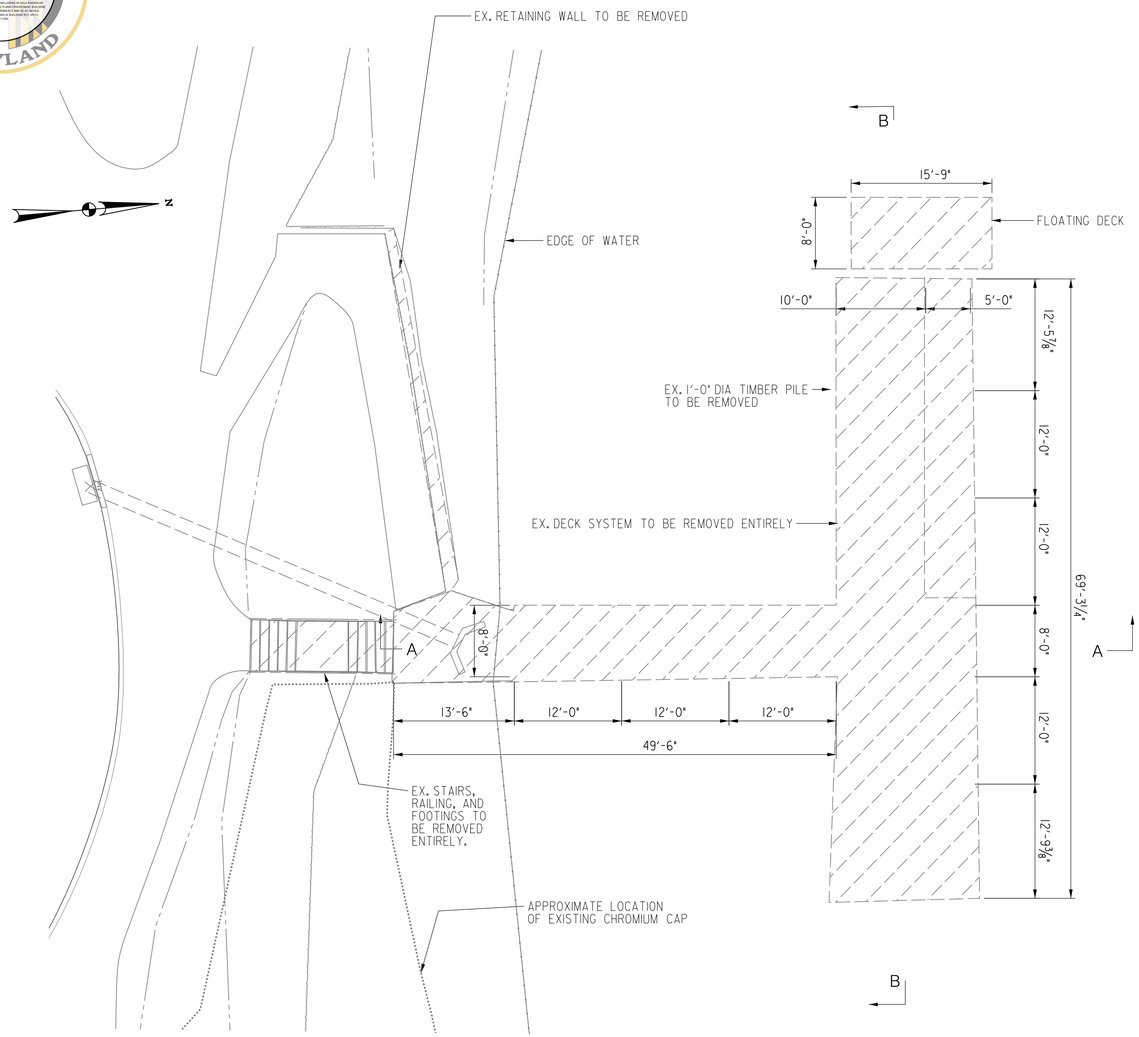
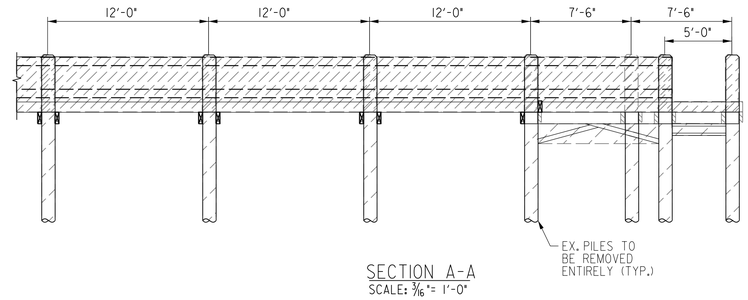
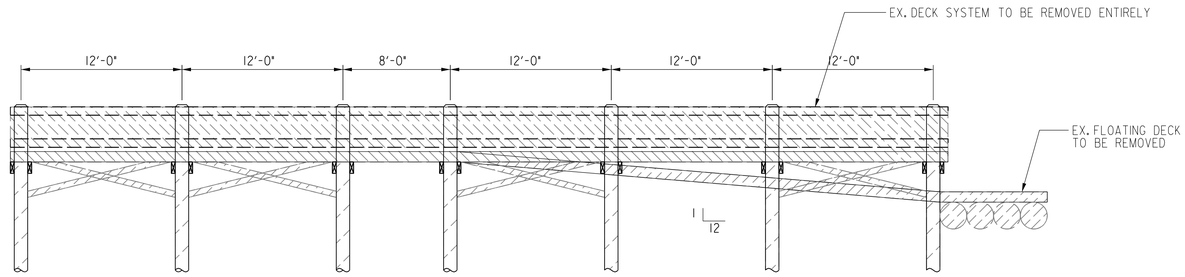


PLAN
SCALE: 1/8"= 1'-0"



SECTION A-A
SCALE: 3/16"= 1'-0"



SECTION B-B
SCALE: 3/16"= 1'-0"

DEMOLITION SEQUENCE:

1. INSTALL ANY PROTECTION MEASURES NEEDED.
2. REMOVE BRIDGE RAILINGS
3. REMOVE EXISTING DECK BOARDS ENTIRELY
4. REMOVE FLOOR JOISTS ENTIRELY
5. REMOVE FLOOR BEAMS ENTIRELY
6. REMOVE EXISTING BRACE BOARD ENTIRELY
7. REMOVE EXISTING TIMBER PILES ENTIRELY
8. REMOVE ALL DEMOLITION MATERIALS FROM THE SITE AND DISPOSE OF AT AN APPROVED SITE

LEGEND:

DEMOLITION

NOTES:
NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

BRUDIS & ASSOCIATES, INC.
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Columbia, Maryland 21044
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SEAL

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LICENSE NO. 17262 . EXPIRATION DATE 02/24/2025 .
ENGINEER: TIM MCSHANE
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: MMU
DWN BY: MMU
CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.
			R.O.W NO.
CONTRACT COMPLETION BOX			

KEY SHEET: ESW
POSITION SHT: 14SE22

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE: AS SHOWN
PROFILE SCALE:

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

DEMOLITION PLAN AND ELEVATION

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
S-01	23119 GXO
	JOB ORDER NUMBER
SHEET 18 OF 29	
DRAWING NUMBER	
2024-0065	
FILE NO.: 9	

DWG. FILENAME: S-01.dgn

8/23/2024
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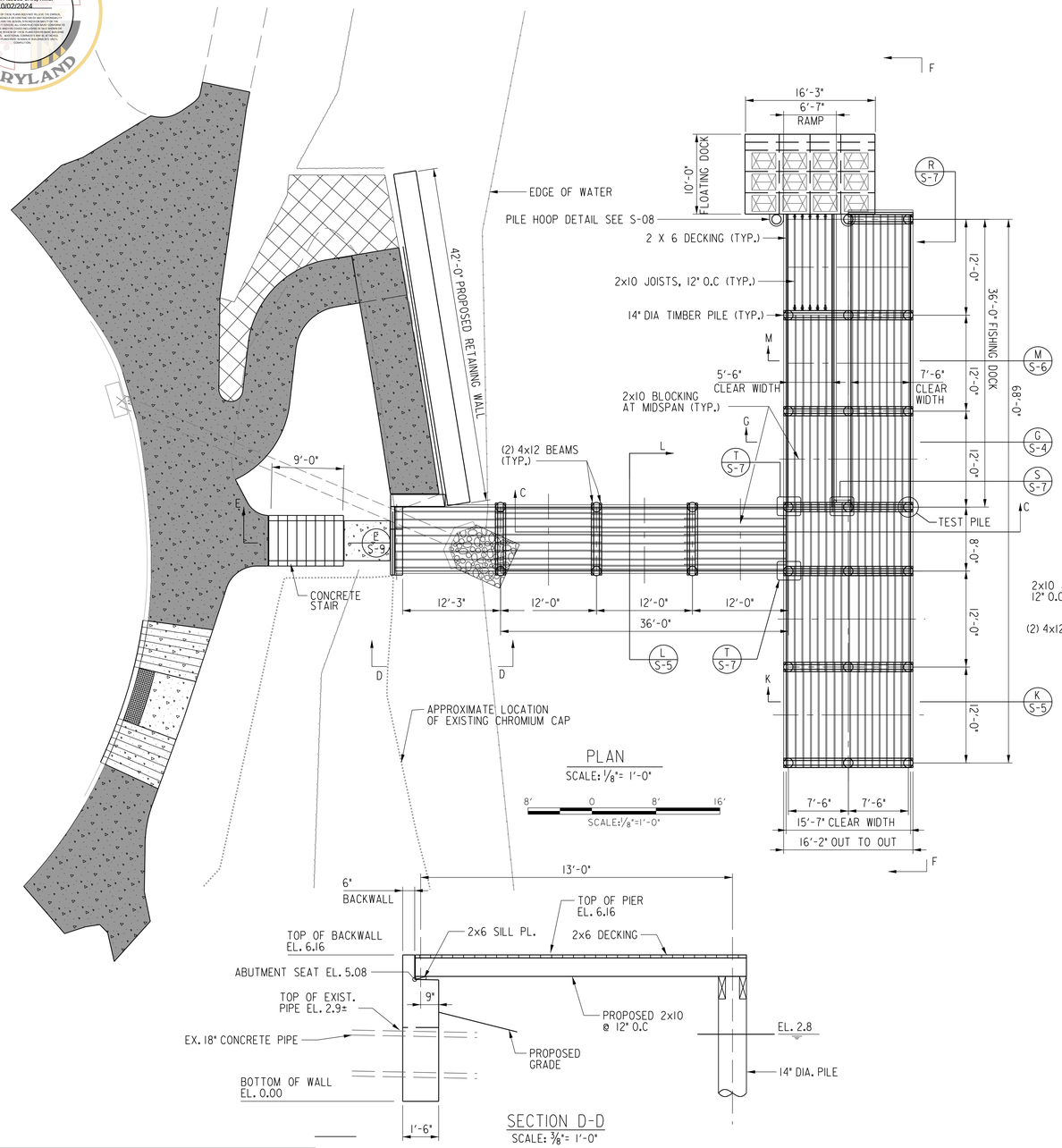
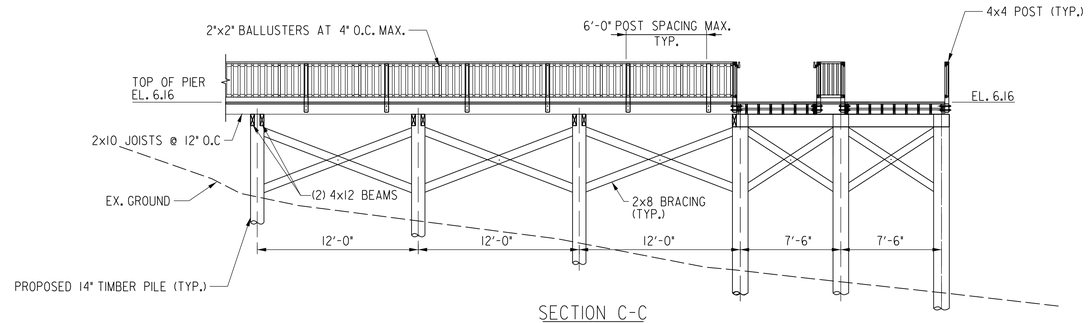


PLAN
SCALE: 1/8"= 1'-0"

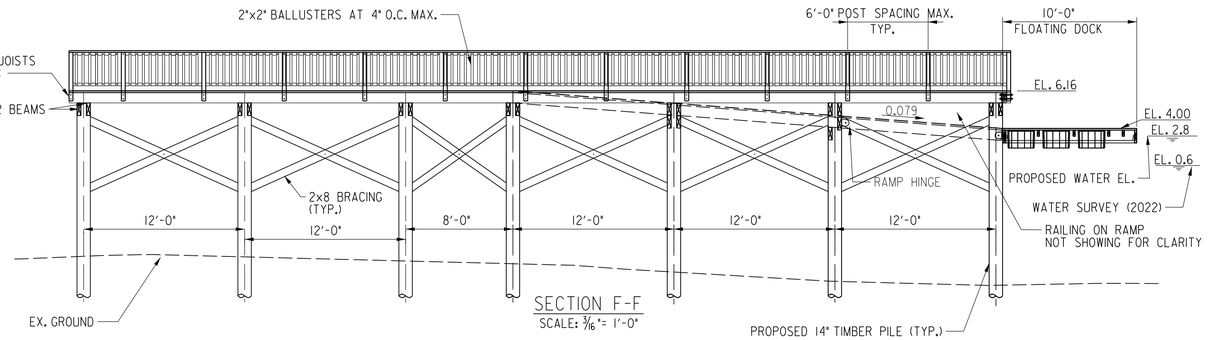
SECTION D-D
SCALE: 3/8"= 1'-0"



SECTION C-C
SCALE: 3/16"= 1'-0"
6' 0 6' 12'
SCALE: 3/16"=1'-0"

NOTES:

1. MINIMUM PENETRATION FOR EACH PILE SHALL BE 21 FT. MINIMUM BELOW THE MUDLINE.
2. SPECIFY, ORDER AND INSTALL PILES FOR TRUE LENGTH.
3. ALL PILES SHOULD BE DRIVEN VERTICAL.
4. PILE CONNECTION DETAIL SEE SHEET S-03
5. TREATMENT FOR TIMBER PILE HEADS SHALL BE AS PER BALTIMORE COUNTY STANDARD SPECIFICATIONS SECTION 407.03.15
6. TIMBER PILE TIPS SHALL BE AS PER BALTIMORE COUNTY STANDARD SPECIFICATIONS SECTION 407.03.04(a)



SECTION F-F
SCALE: 3/16"= 1'-0"

NOTES:

1. RAILING DETAILS SEE TYPICAL SECTION S-04
2. FLOATING DOCK DETAIL SEE SHEET S-05
3. FOR CONCRETE STAIR DETAILS SEE SHEET S-09
4. NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

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www.brudis.com

SEAL: STATE OF MARYLAND — TIMOTHY EUGENE MCSHANE — No. 17262 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION		AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	PROPERTY MANAGEMENT
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.					R.O.W NO.	ESW	14SE22	PLAN SCALE: AS SHOWN	APPROVED BY:
LICENSE NO. 17262 , EXPIRATION DATE 02/24/2025		CONTRACT COMPLETION BOX						PROFILE SCALE:	PROPERTY MANAGER
ENGINEER: TIM MCSHANE	DGN BY: MMU	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
AS-BUILT PER RECORD PRINT	DWN BY: MMU	REVIEWED BY:							
BY: DATE:	CHKD BY: TEM	DATE REVIEWED:							

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222
GENERAL PLAN AND ELEVATION

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
S-02	23119 GXO
	JOB ORDER NUMBER
	SHEET 19 OF 29
	DRAWING NUMBER
	2024-0066
	FILE NO.: 9

BALTIMORE COUNTY MARYLAND

8/23/2024
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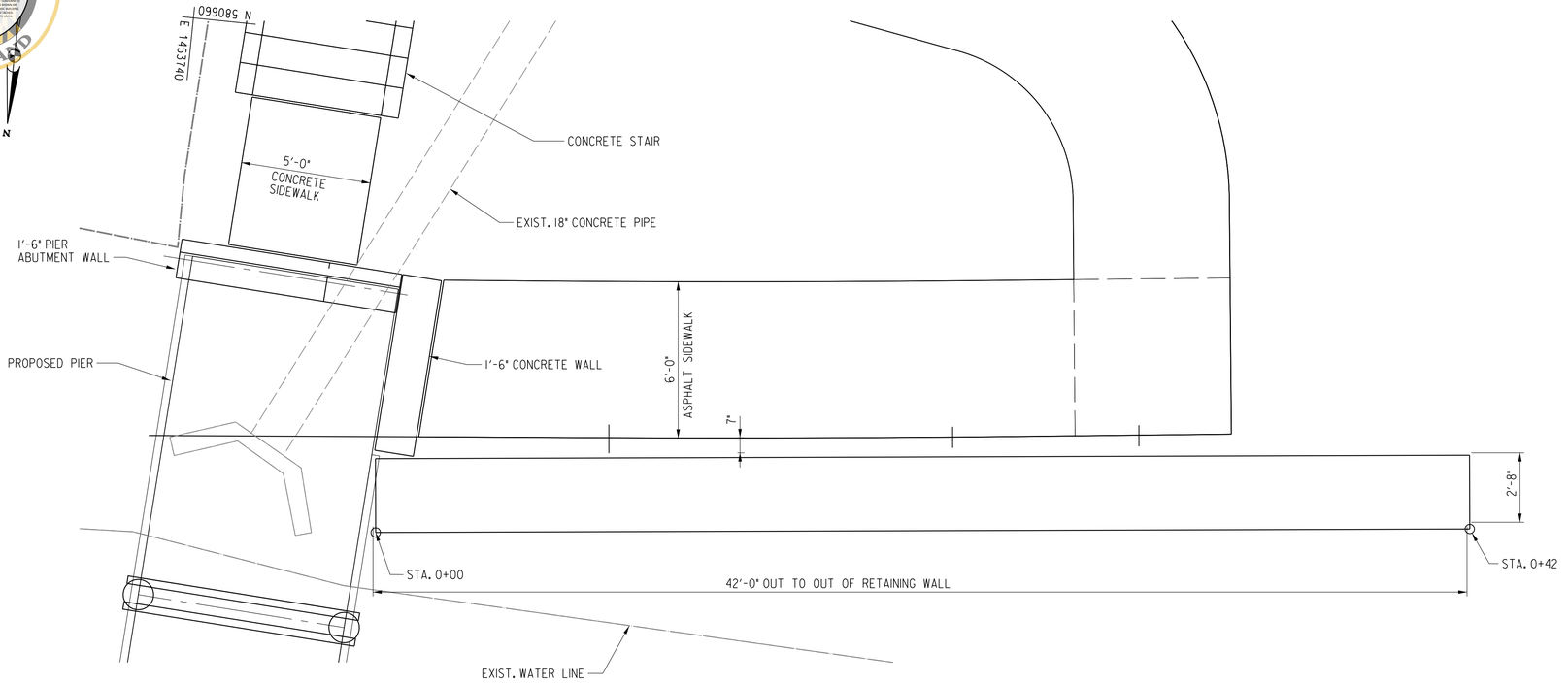
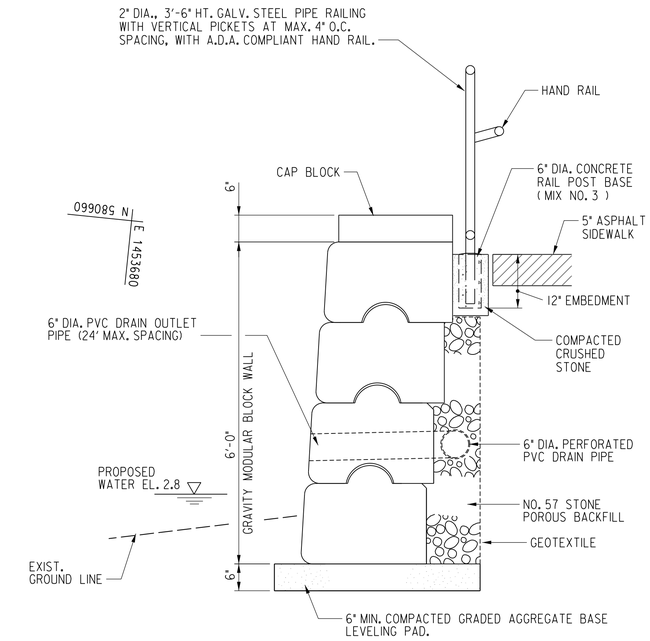
DWG. FILENAME:

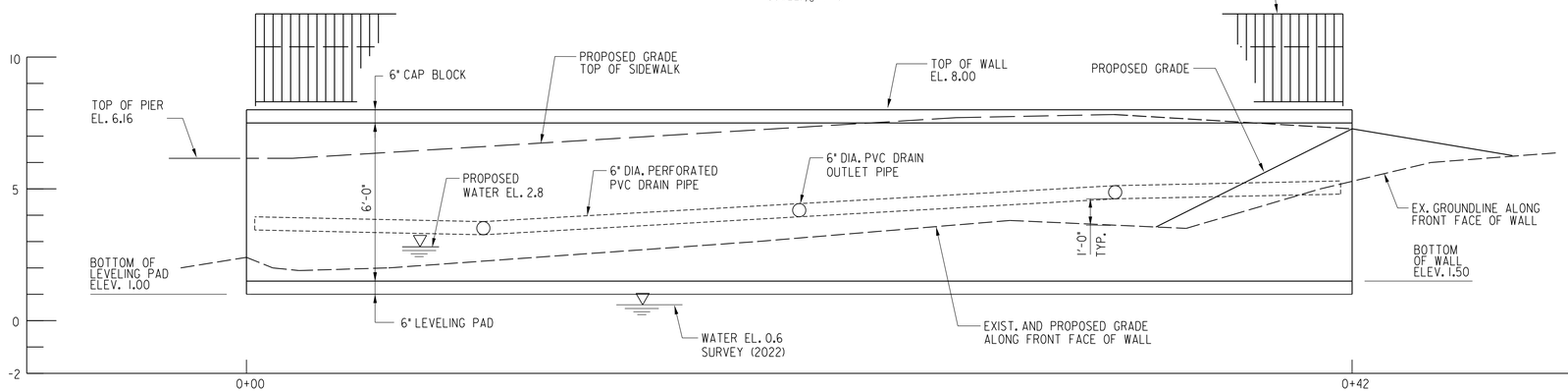


RETAINING WALL PLAN
3/8" = 1'-0"

4' 0 4' 8'
SCALE: 3/8"=1'-0"



RETAINING WALL SECTION
3/4" = 1'-0"



ELEVATION VIEW
3/8" = 1'-0"

4' 0 4' 8'
SCALE: 3/8"=1'-0"

WALL CONSTRUCTION COORDINATES		
STA.	NORTH	EAST
0+00	580678.9481	1453731.0096
0+42	580674.5009	1453689.2457

NOTE
PRECAST MODULAR BLOCK GRAVITY WALL SYSTEM TO BE DESIGNED BY THE MANUFACTURER. CONTRACTOR MUST SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS FOR THE WALL DESIGN SIGNED AND SEALED BY A MARYLAND REGISTERED ENGINEER TO THE COUNTY FOR APPROVAL.

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
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SEAL: STATE OF MARYLAND · TIMOTHY EUGENE MCSHANE · No. 17262 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
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LICENSE NO. 17262 , EXPIRATION DATE 02/24/2025
ENGINEER: TIM MCSHANE
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: MMU
DWN BY: MMU
CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT
			R.O.W NO.	ESW	14SE22
CONTRACT COMPLETION BOX					

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE: AS SHOWN
PROFILE SCALE:

PROPERTY MANAGEMENT
APPROVED BY:
PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222
RETAINING WALL PLAN AND ELEVATION

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SHEET DESIGNATION	CONTRACT NUMBER
S-03	23119 GXO

JOB ORDER NUMBER

SHEET 20 OF 29

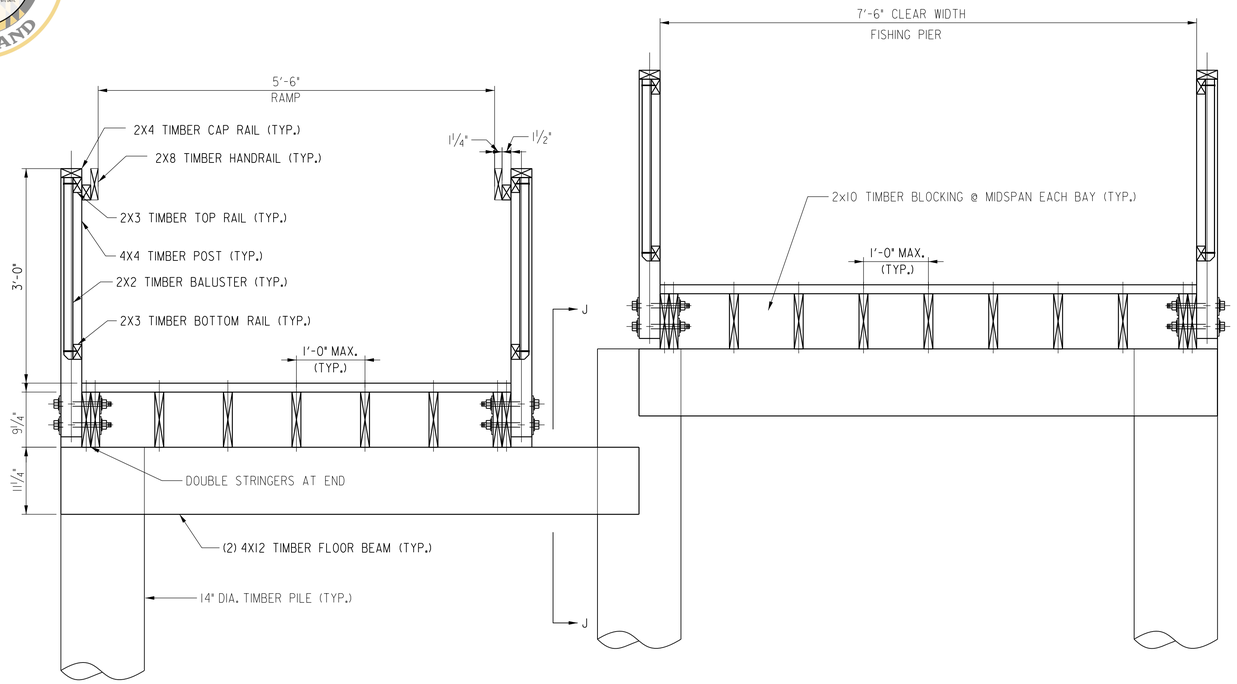
DRAWING NUMBER
2024-0067

FILE NO.: 9

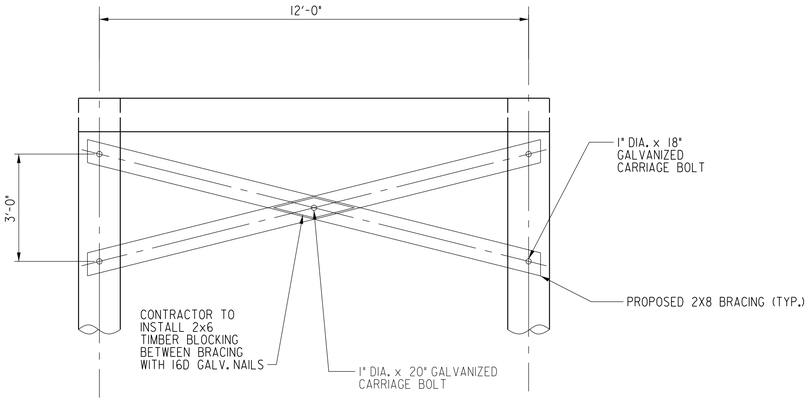
DWG. FILENAME: 8/23/2024 P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury\Plan\Drawings\CADD\Working\pBR-GP02.stansbury.dgn

NOTES:

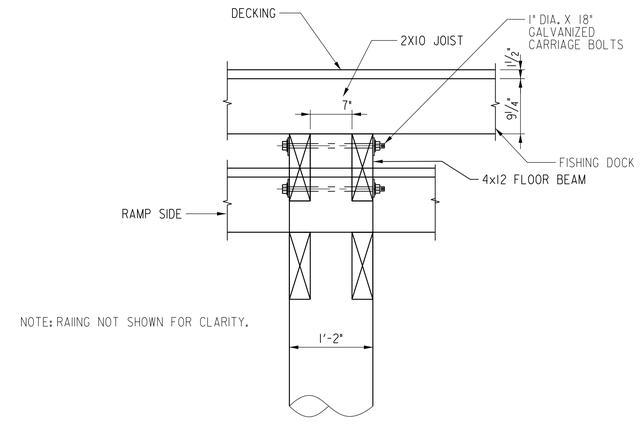
1. ALL TIMBER FRAMING USED SHALL BE SOUTHERN PINE SELECT STRUCTURAL. DECK BOARDS SHALL BE SOUTHERN YELLOW PINE #1.
2. ALL SIZES GIVEN OF TIMBER MEMBERS ARE NOMINAL SIZE.



SECTION - G
SCALE 1"=1'-0"

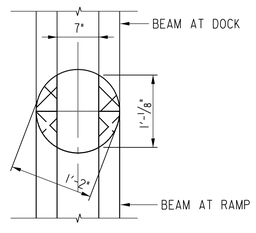


CROSS BRACING DETAIL
SCALE ½"=1'-0"

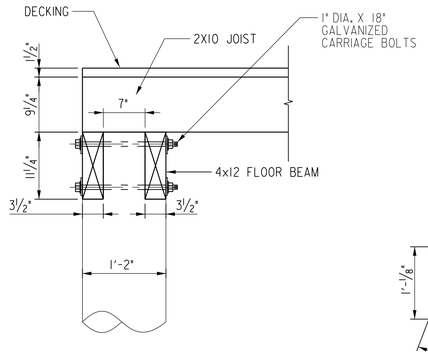


NOTE: RAIING NOT SHOWN FOR CLARITY.

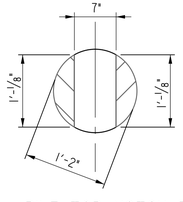
SECTION J - MID PILE CONNECTION
SCALE 1"=1'-0"



MID PILE NOTCH DETAIL
SCALE 1"=1'-0"



TYPICAL PILE CONNECTION
SCALE 1"=1'-0"



PILE TOP NOTCH DETAIL
SCALE 1"=1'-0"

1' 0 1' 2'
SCALE: 1"=1'-0"

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

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SEAL
STATE OF MARYLAND — TIMOTHY EUGENE MCSHANE — No. 17262 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
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LICENSE NO. 17262 , EXPIRATION DATE 02/24/2025
ENGINEER: TIM MCSHANE
DGN BY: MMU
DWN BY: MMU
CHKD BY: TEM
AS-BUILT PER RECORD PRINT
BY:
DATE:

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT
			R.O.W NO.	ESW	14SE22
CONTRACT COMPLETION BOX					

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE	
PLAN SCALE:	AS SHOWN
PROFILE SCALE:	

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

STRUCTURE DETAILS – 1

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
S-04	23119 GXO
	JOB ORDER NUMBER
	SHEET 21 OF 29
	DRAWING NUMBER
	2024-0068
	FILE NO.: 9 REV. 00/00

BALTIMORE COUNTY MARYLAND

DWG. FILENAME:
8/23/2024
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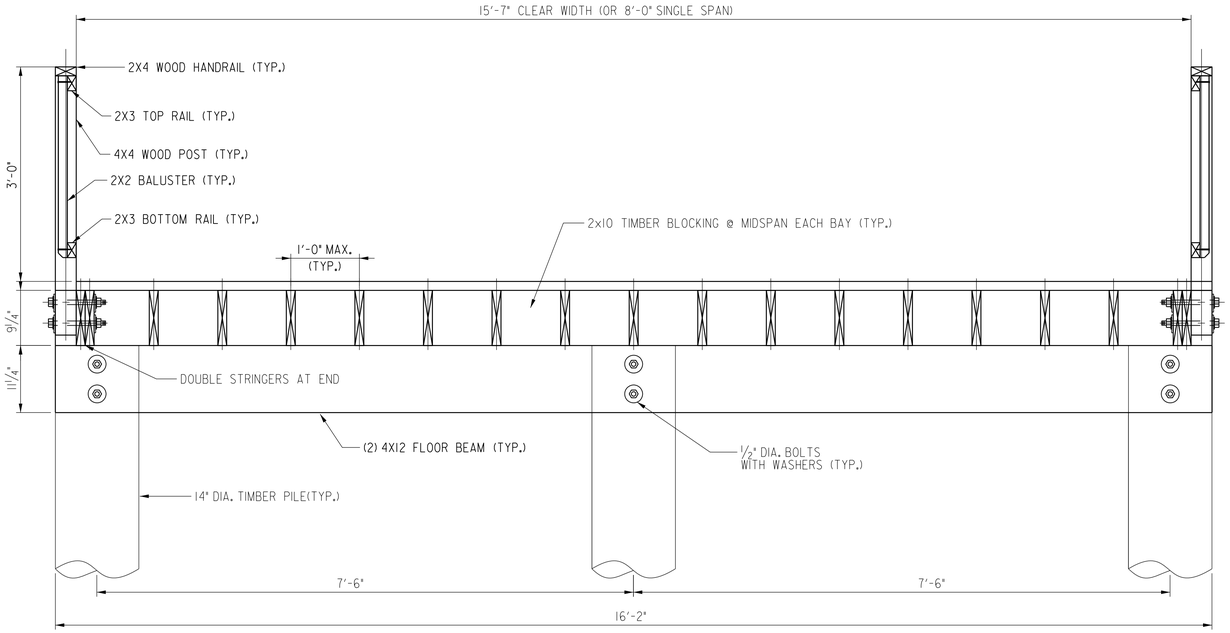
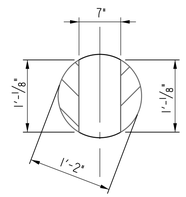


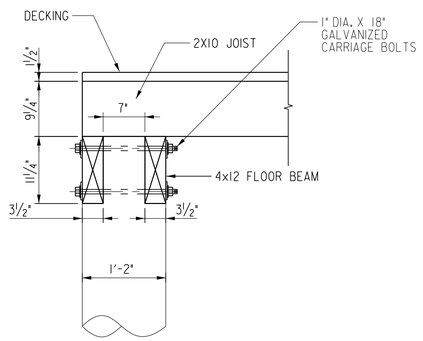
SECTION K
SCALE 1"=1'-0"

NOTES:

1. BEAM MUST BEAR FULLY ON NOTCHED PILE
2. BEAM CONTINUOUSLY SUPPORTED BY PILES



PILE TOP NOTCH DETAIL
SCALE 1"=1'-0"



PILE CONNECTION
SCALE 1"=1'-0"

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STATE OF MARYLAND — TIMOTHY EUGENE MCSHANE — No. 17262 — PROFESSIONAL ENGINEER

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ENGINEER: TIM MCSHANE

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BY:
DATE:

DGN BY: MMU
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CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT
			R.O.W NO.	ESW	14SE22
CONTRACT COMPLETION BOX					

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE: AS SHOWN
PROFILE SCALE:

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

STRUCTURE DETAILS – 2

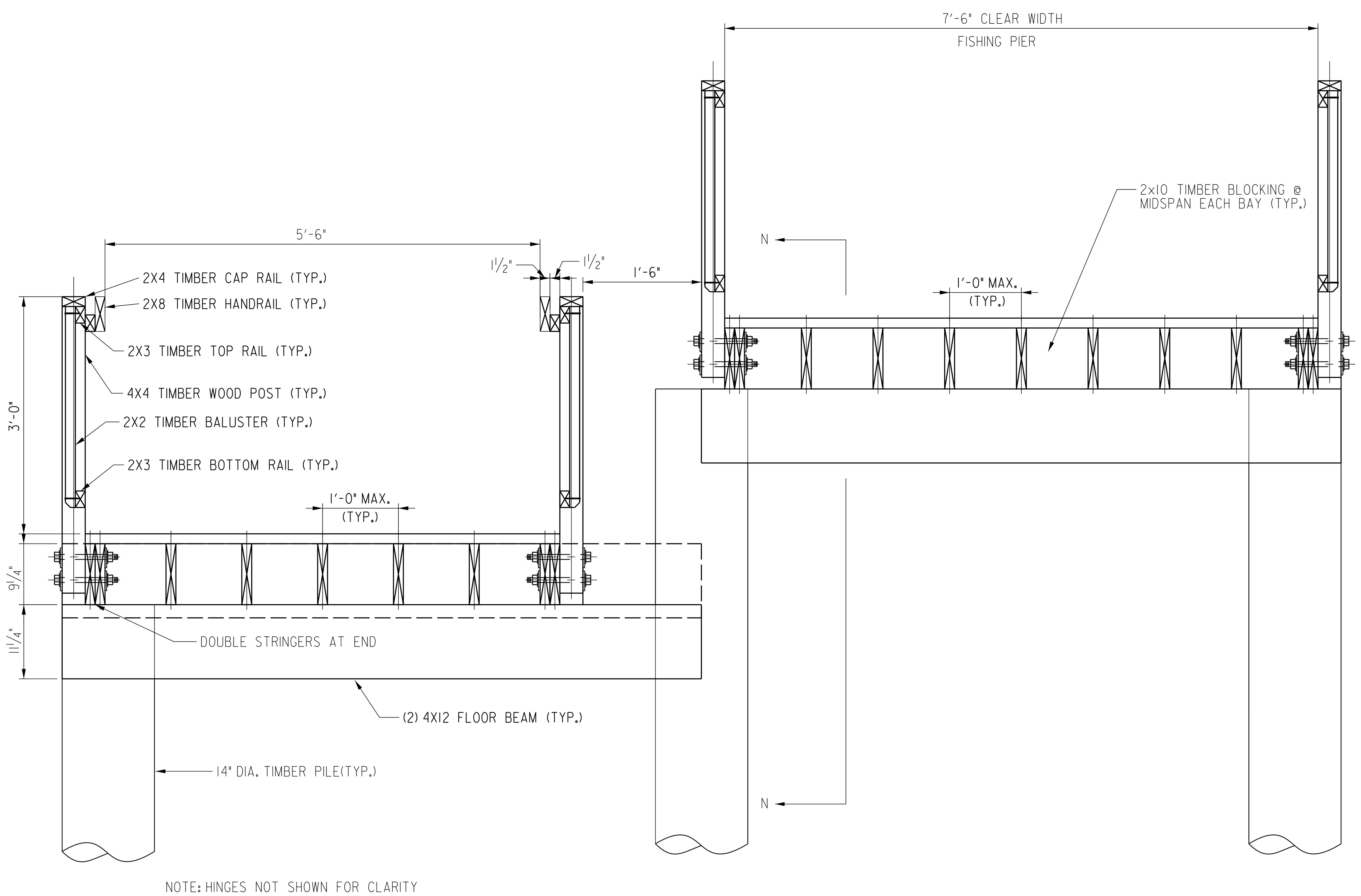
SUBDIVISION: **STANBROOK**

ELECTION DIST. NO.: **12C7**

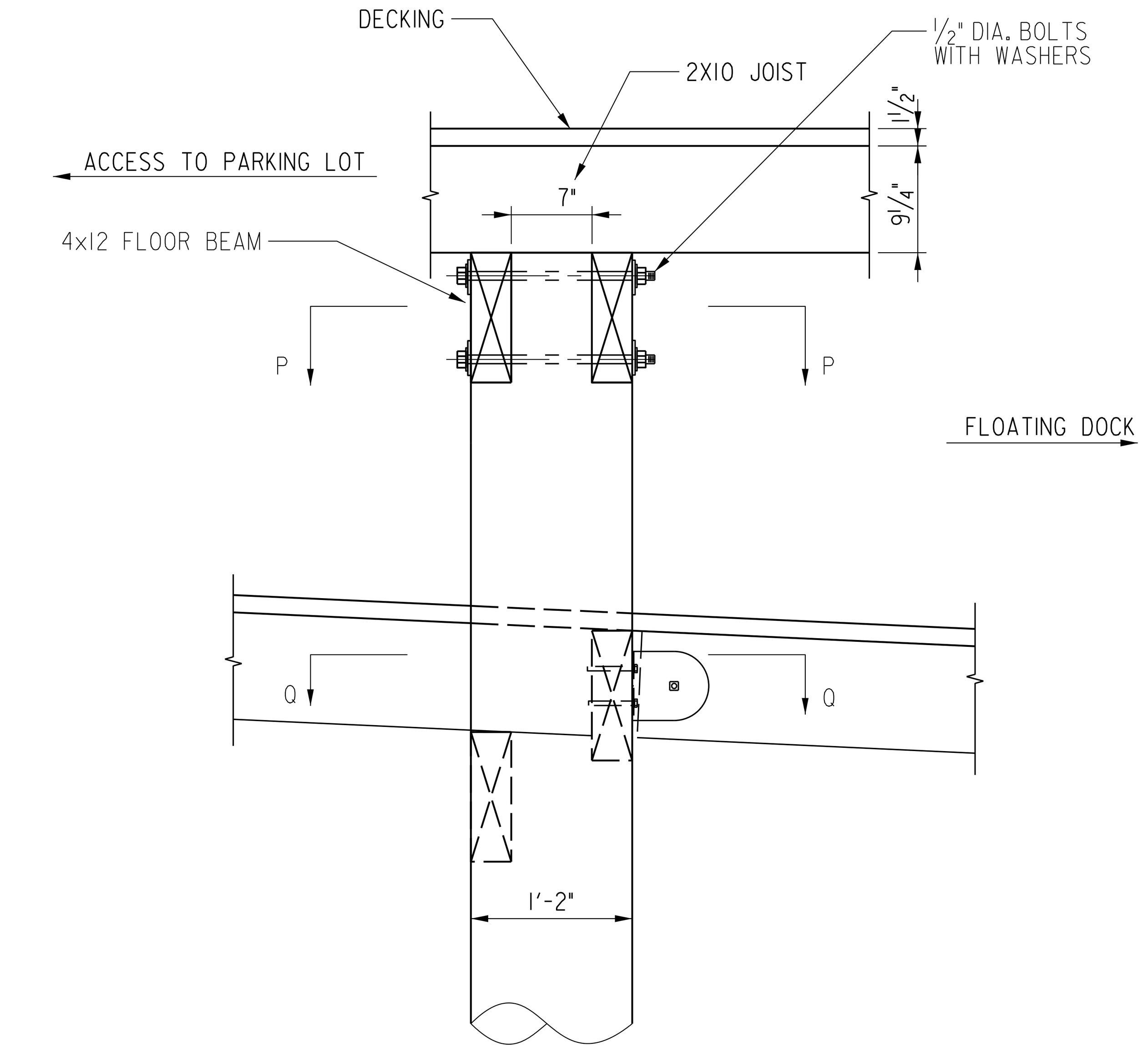
SHEET DESIGNATION	CONTRACT NUMBER
S-05	23119 GXO
	JOB ORDER NUMBER
	SHEET **22** OF **29**
	DRAWING NUMBER
	2024-0069
	FILE NO.: 9 REV. 00/00

DWG. FILENAME:

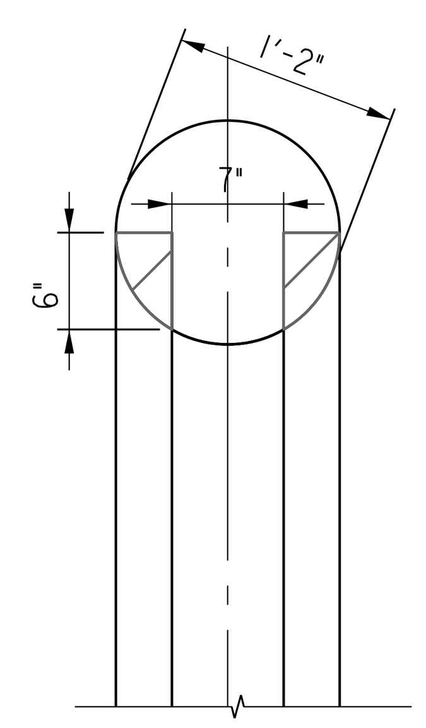
8/23/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-Stansbury Pier-\Drawings\CADD\Working\pBR-TP02_StansburyPark.dgn



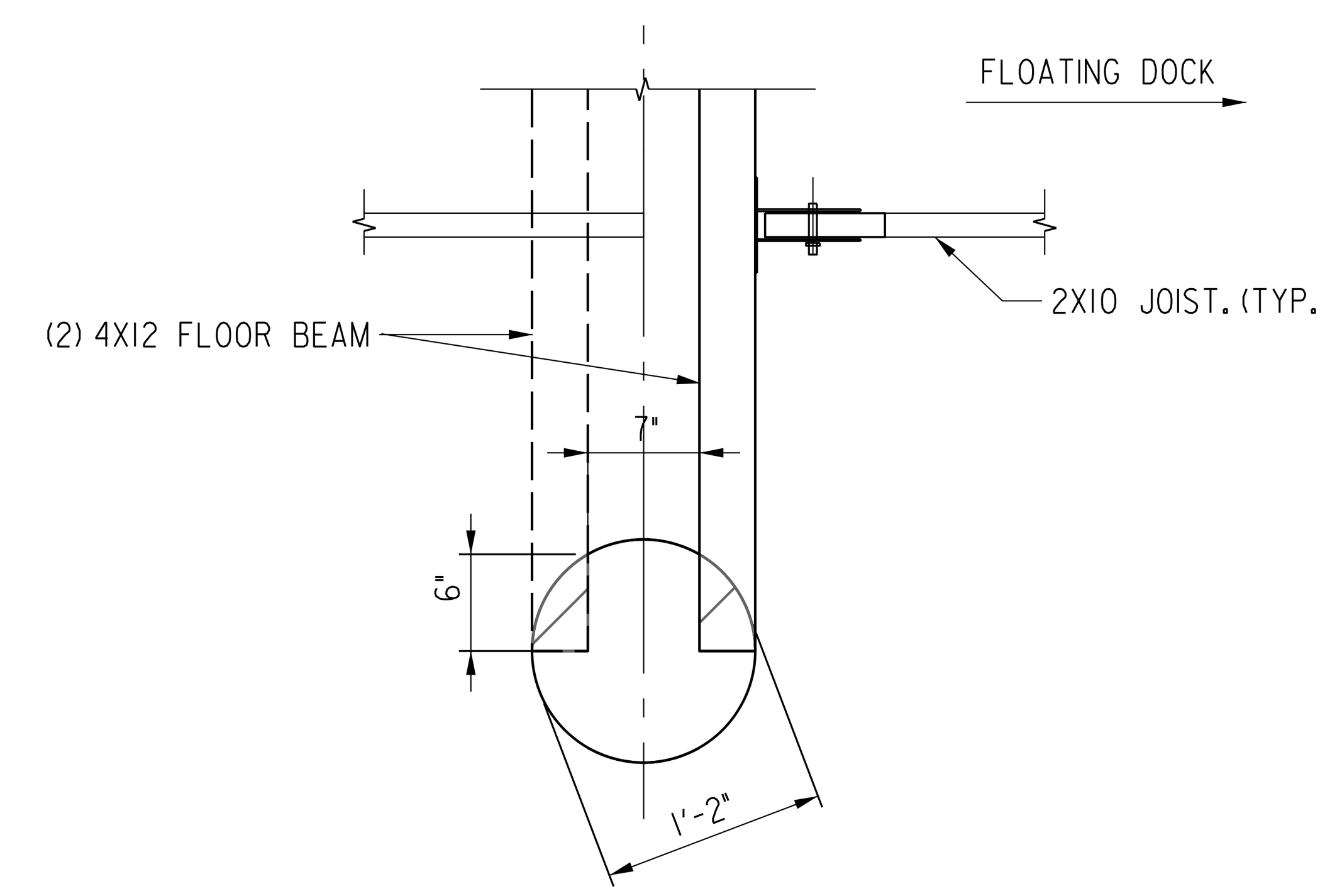
SECTION M
SCALE 1"=1'-0"



SECTION N - MID PILE CONNECTION
SCALE 1"=1'-0"



SECTION P
SCALE 1"=1'-0"



SECTION Q
SCALE 1"=1'-0"

BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SEAL: STATE OF MARYLAND — TIMOTHY EUGENE McSHANE — No. 17262 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17262 , EXPIRATION DATE 02/24/2025

ENGINEER: TIM MCSHANE	DGN BY: MMU
AS-BUILT PER RECORD PRINT	DWN BY: MMU
BY: DATE:	CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
			R.O.W NO.	ESW	14SE22	PLAN SCALE:	AS SHOWN
CONTRACT COMPLETION BOX						PROFILE SCALE:	
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

PROPERTY MANAGEMENT
APPROVED BY: ______ PROPERTY MANAGER
DATE: ______

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

STANSBURY PARK - PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

STRUCTURE DETAILS - 3

SUBDIVISION: **STANBROOK** ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
S-06	23119 GXO
	JOB ORDER NUMBER
	SHEET **23** OF **29**
	DRAWING NUMBER
	2024-0070
	FILE NO.: 9

DWG. FILENAME:

8/23/2024
P:\19-010 Baltimore Co.On-Call Civil-Site Design\Task10-StansburyPier\Drawings\CADD\Working\sBR-TP03_StansburyPark.dgn

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Phone 410-884-3607
www.brudis.com

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SEAL	PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	PROPERTY MANAGEMENT
STATE OF MARYLAND TIMOTHY EUGENE MCSHANE No. 17262 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. LICENSE NO. 17262, EXPIRATION DATE 02/24/2025				R.O.W NO.	ESW	14SE22	PLAN SCALE: AS SHOWN	APPROVED BY: PROPERTY MANAGER
		CONTRACT COMPLETION BOX						PROFILE SCALE:	DATE:
	ENGINEER: TIM MCSHANE; DGN BY: MMU	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
	AS-BUILT PER RECORD PRINT; DWN BY: MMU	REVIEWED BY:							
	BY: DATE: ; CHKD BY: TEM	DATE REVIEWED:							

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

STANSBURY PARK - PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

STRUCTURE DETAILS - 4

SUBDIVISION: **STANBROOK**   ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
S-07	23119 GXO
	JOB ORDER NUMBER
	SHEET **24** OF **29**
	DRAWING NUMBER 2024-0071
	FILE NO.: 9

DWG. FILENAME:

8/23/2024
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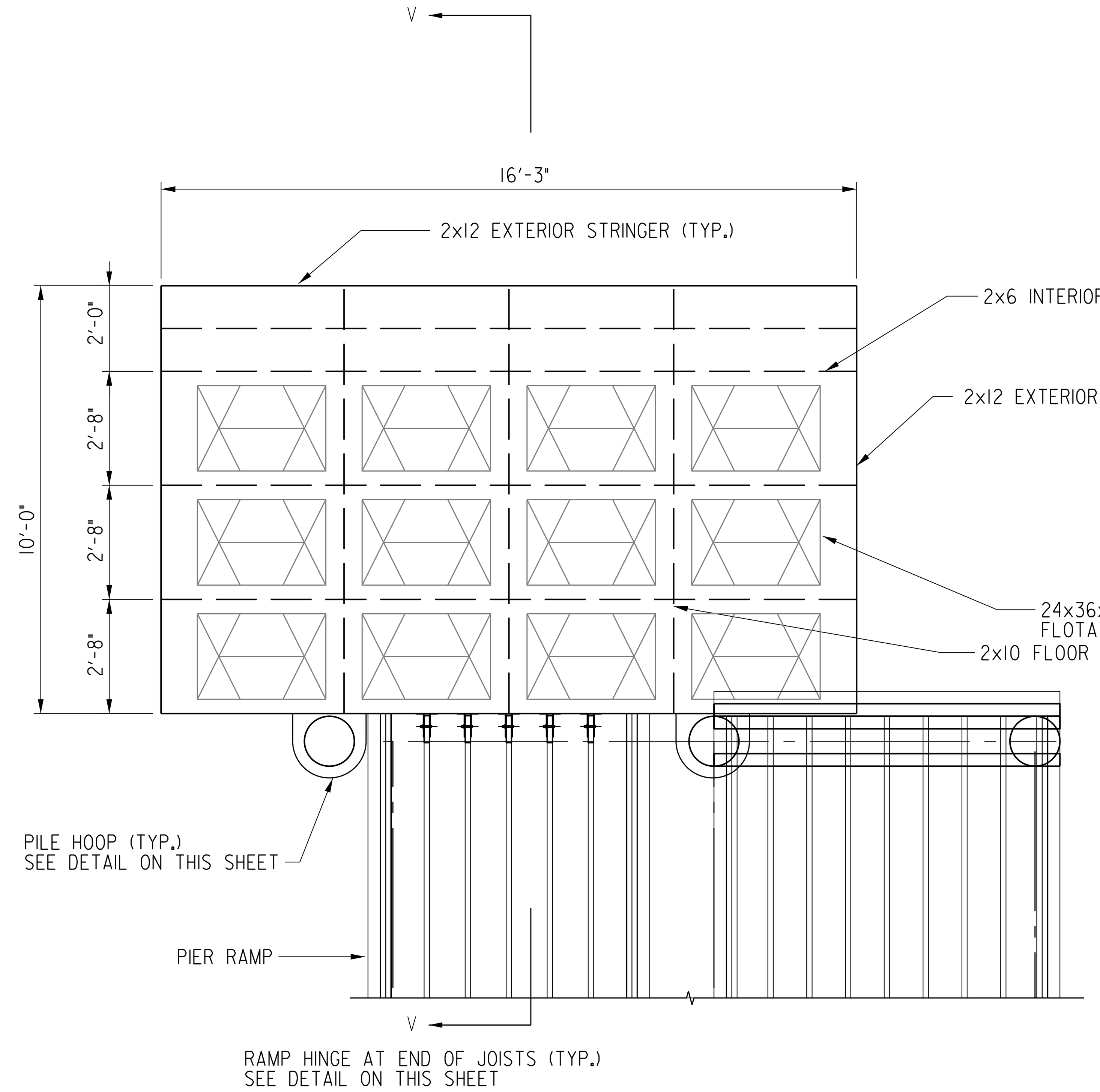
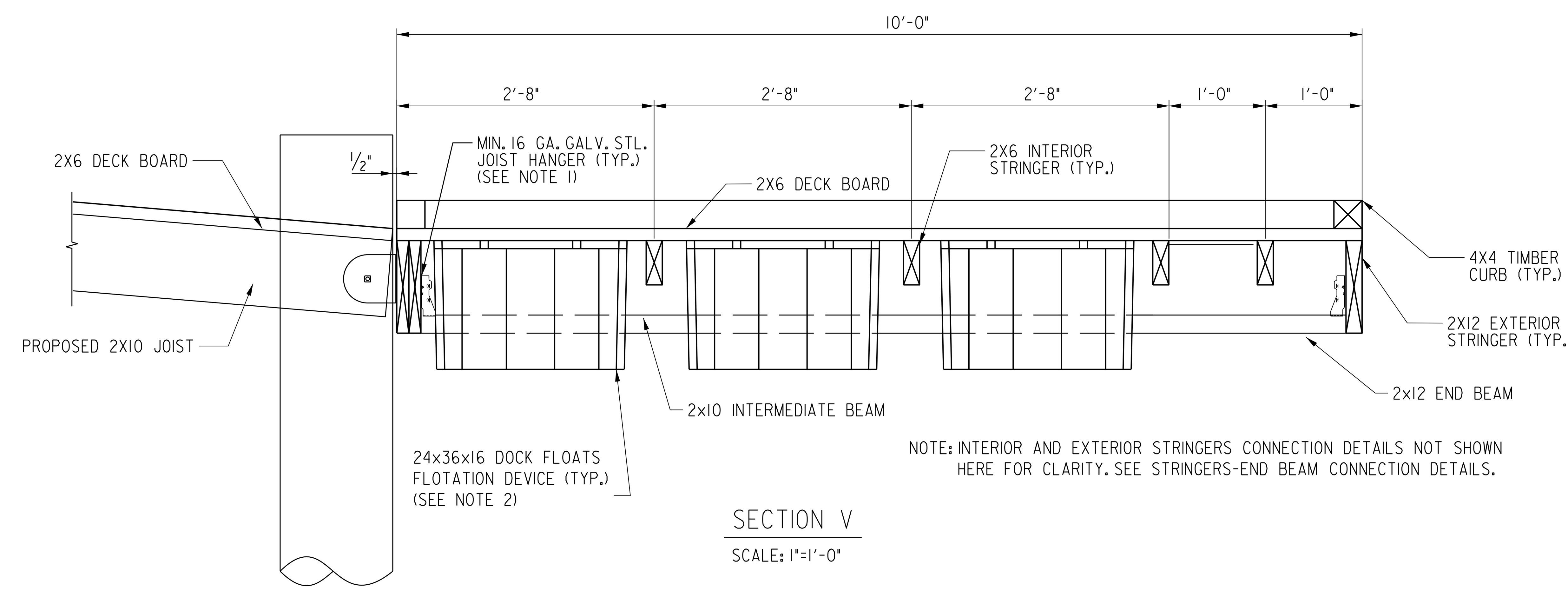


PLAN - PROPOSED

SCALE: 3/8"=1'-0"

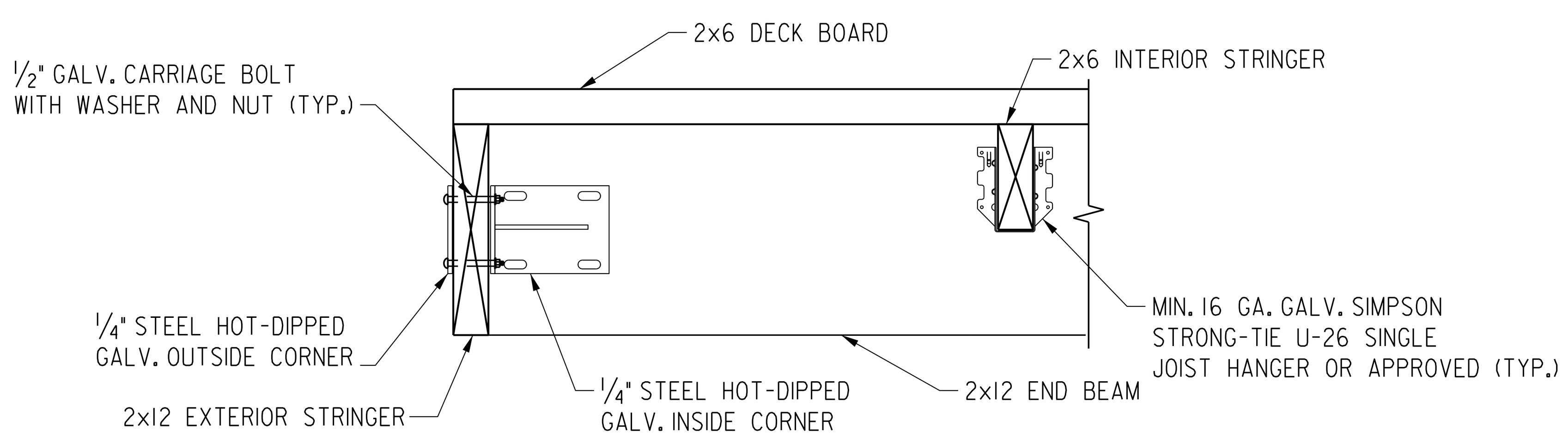


SECTION V

SCALE: 1"=1'-0"

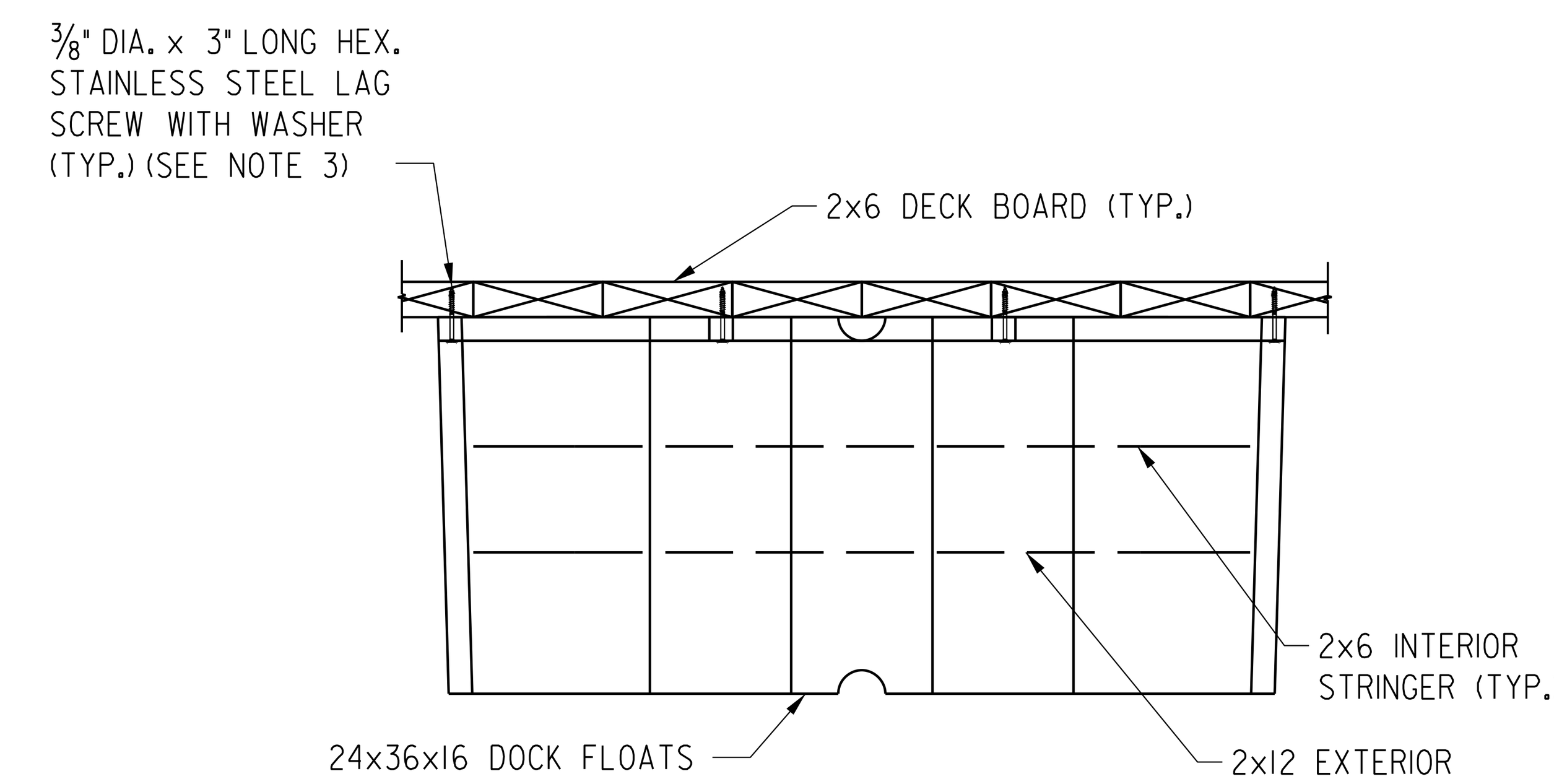
NOTES:

1. USE GALVANIZED 16 GAUGE SIMPSON STRONG-TIE U26 SINGLE JOIST HANGER OR APPROVED EQUAL.
2. USE 24x36x16 EAGLE FLOATS STANDARD FLOTATION DEVICES MANUFACTURED BY HENDREN PLASTICS OR APPROVED EQUAL.
3. CONTRACTOR SHALL MAINTAIN A MINIMUM 1 1/2" EDGE DISTANCE TO THE 2x6 DECK BOARDS FOR ALL LAG SCREWS



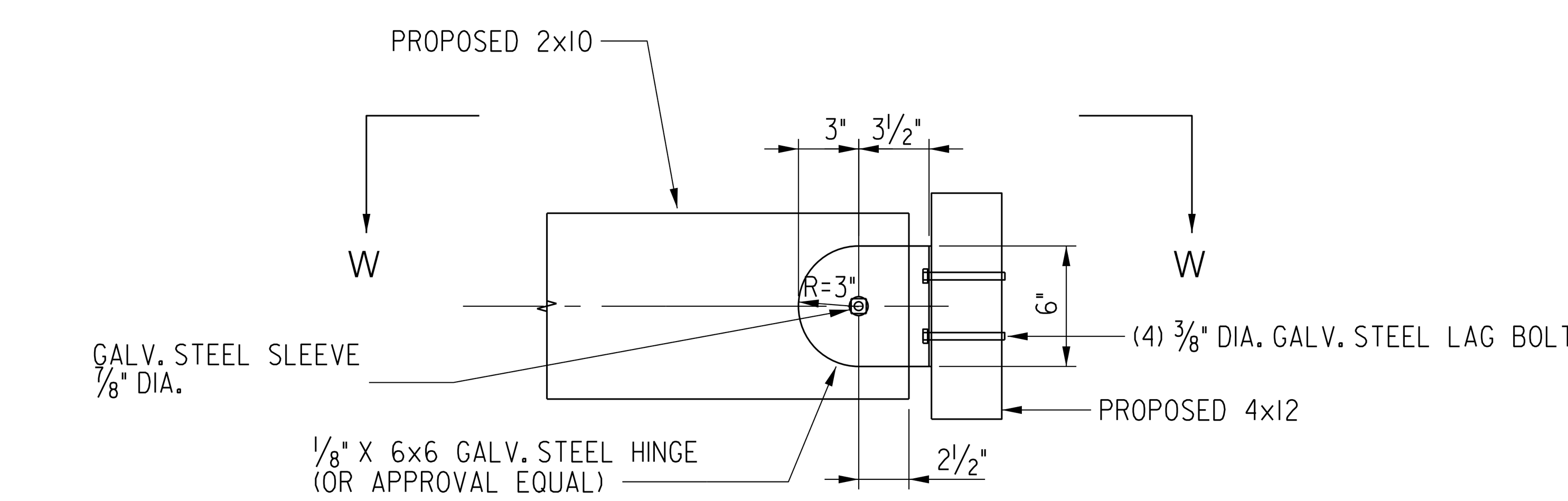
STRINGERS-END BEAM CONNECTION DETAIL

SCALE: 1 1/2"=1'-0"



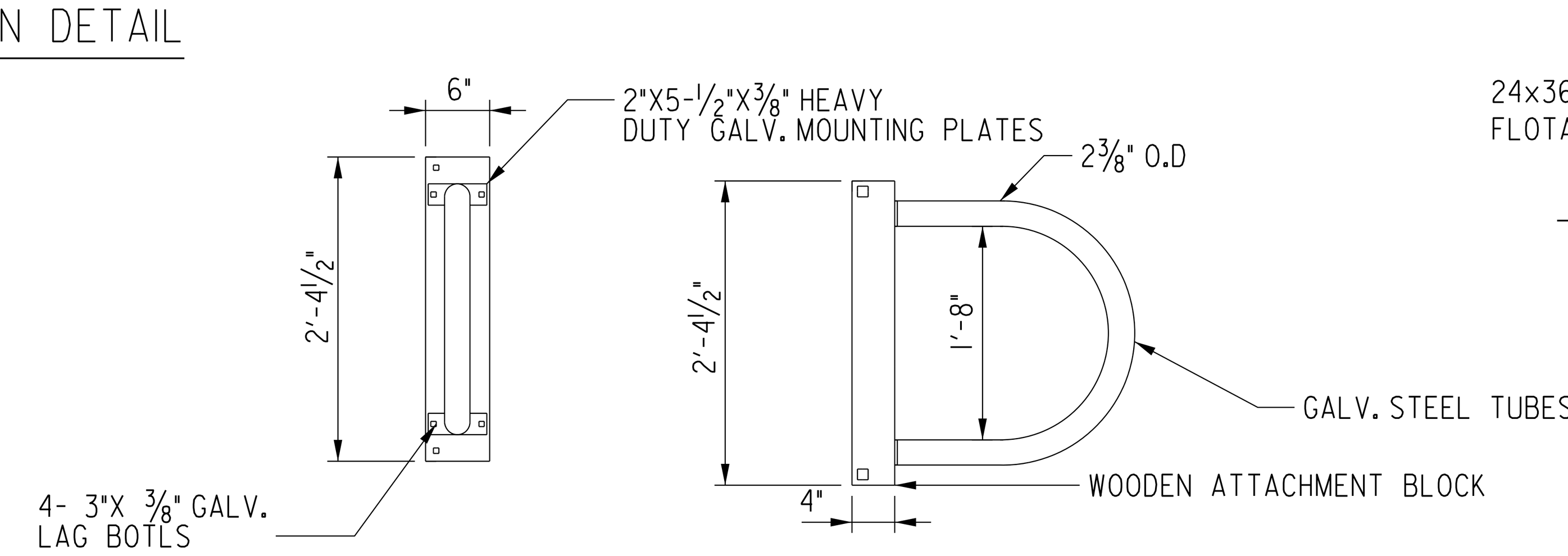
FLOTATION DEVICE CONNECTION DETAIL

SCALE: 1 1/2"=1'-0"



RAMP HINGE DETAIL

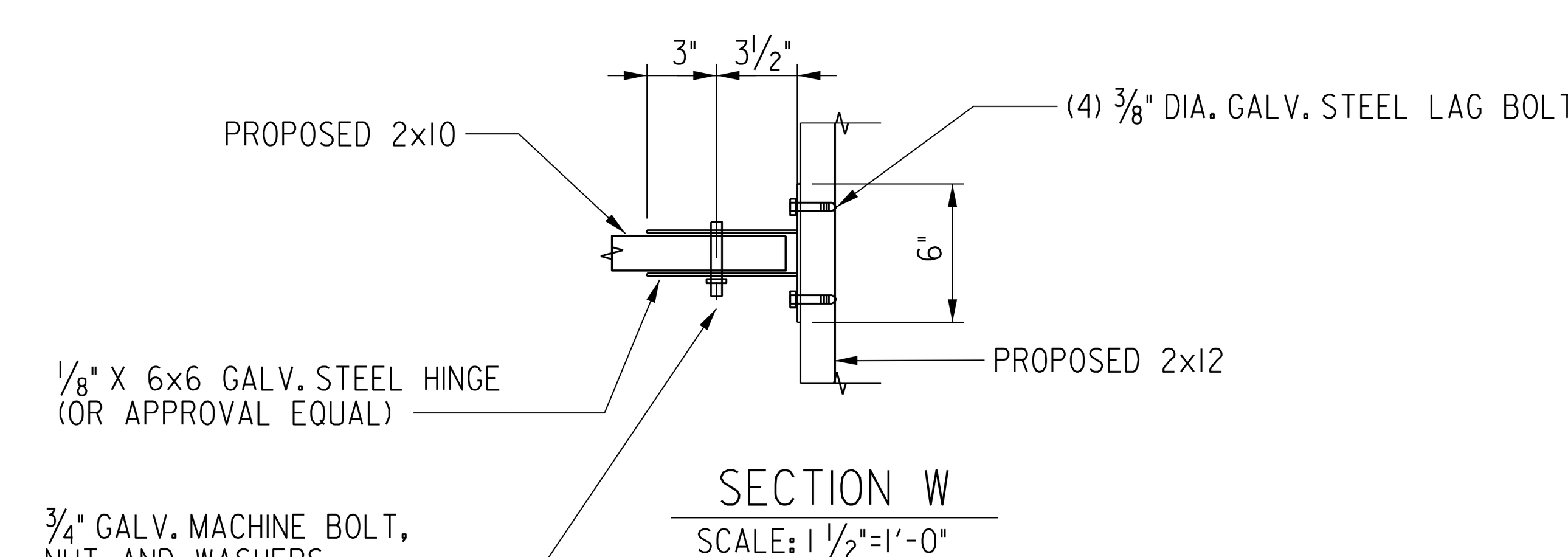
SCALE: 1 1/2"=1'-0"



PILE HOOP DETAIL

SCALE: 3/4"=1'-0"

** 20" HOOP PILE HOLDER THE CONTRACTOR HAS THE OPTION TO USE A 20-INCH HOOP PILE HOLDER THAT IS EQUIVALENT TO THE ONE SPECIFIED.



SECTION W

SCALE: 1 1/2"=1'-0"

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

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Phone 410-884-3607
www.brudis.com

SEAL: STATE OF MARYLAND — TIMOTHY EUGENE McSHANE — No. 17262 — PROFESSIONAL ENGINEER

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LICENSE NO. 17262, EXPIRATION DATE 02/24/2025.
ENGINEER: TIM MCSHANE
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: MMU
DWN BY: MMU
CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
				ESW	14SE22	PLAN SCALE:	AS SHOWN
			R.O.W NO.				
CONTRACT COMPLETION BOX						PROFILE SCALE:	
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

PROPERTY MANAGEMENT
APPROVED BY: ______ PROPERTY MANAGER
DATE: ______

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222
FLOATING DOCK PLAN SECTION AND DETAILS

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION: **S-08**
CONTRACT NUMBER: 23119 GXO
JOB ORDER NUMBER:

DRAWING NUMBER: 2024-0072
FILE NO.: 9
REV. 03/22
DWG. FILENAME:

8/23/2024
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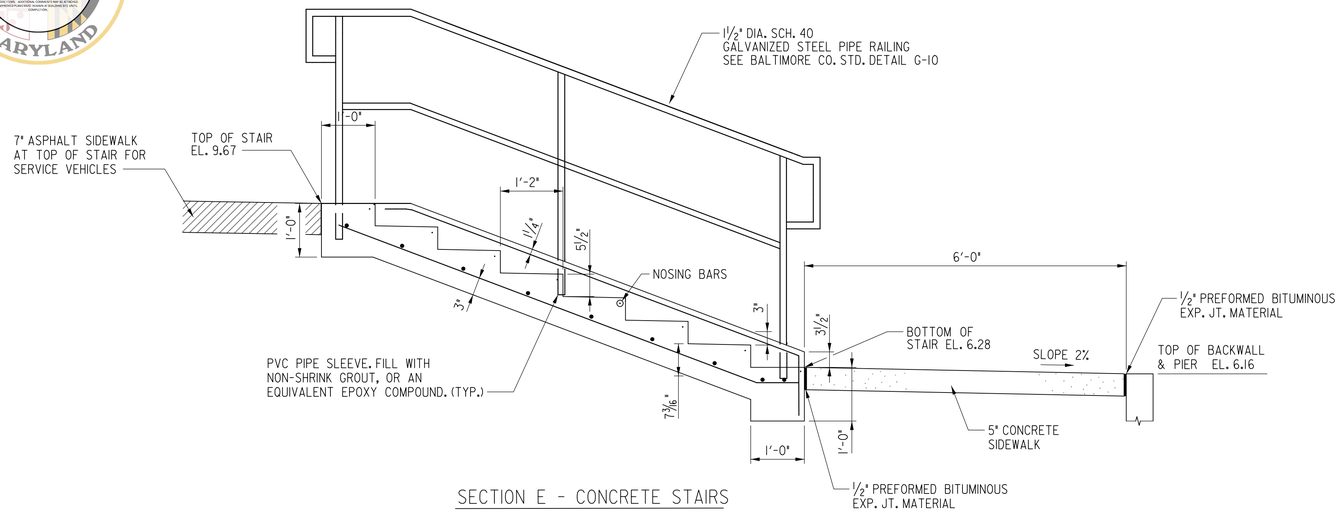
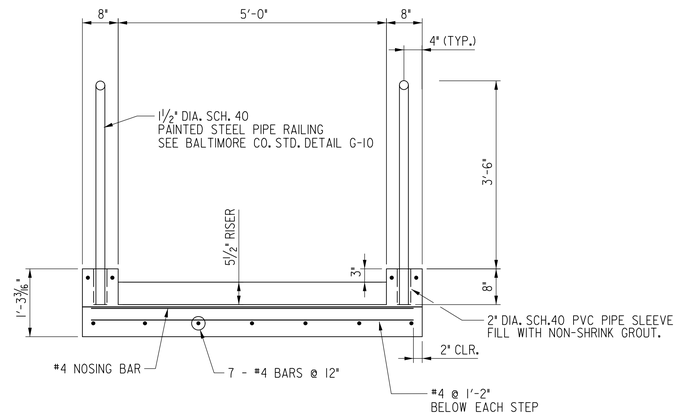


SECTION E - CONCRETE STAIRS

SCALE: ¾"=1'-0"



SECTION X - CONCRETE STAIR

SCALE: ¾"=1'-0"

NOTES:

1. CONCRETE IS MIX NO. 2. CHAMFERS SHALL BE ¾" x¾".
2. REINFORCING STEEL: PER ASTM A-615. ALL REINFORCEMENT SHALL BE NO. 4 BARS. NOSING BARS SHALL BE PLACED IN ALL STEPS REGARDLESS OF STAIR LENGTH.
3. EXPOSED SURFACES SHALL RECEIVE AN ORDINARY SURFACE FINISH. UNLESS OTHERWISE NOTED, ALL TREADS SHALL BE FINISHED WITH A LIGHTLY BROOMED FINISH.
4. FOR RAILING DETAILS, SEE BALTIMORE COUNTY STANDARD "PIPE RAILING FOR CONCRETE STAIRS", PLATE G-10, WITH THE EXCEPTION OF NOTE 6. RAILING POSTS SHALL BE SET IN 8" DEEP PVC PIPE SLEEVES..
5. THE STAIRS SHALL BE PAID FOR BASED UPON THE UNIT PRICE BID PER CUBIC YARD FOR "MIX NO. 2 CONCRETE FOR STEPS AND MISCELLANEOUS STRUCTURES", COMPLETE IN PLACE.
6. STEP TREADS AND LANDINGS SHALL BE GRADED TO DRAIN 2%.
7. TOLERANCES: 3/16" MAX. VARIATION IN DEPTH OF ADJACENT TREADS OR IN HEIGHT OF ADJACENT RISER. 3/8" MAX. VARIATION BETWEEN LARGEST & SMALLEST RISER OR LARGEST AND SMALLEST TREAD IN ANY FLIGHT OF STAIRS.

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SEAL — STATE OF MARYLAND · MOHAMMAD EUGENE MOSHAR · No. 17262 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION

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ENGINEER: TIM MCSHANE

AS-BUILT PER RECORD PRINT

BY:
DATE:

DGN BY: MMU
DWN BY: MMU
CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE
CONTRACT COMPLETION BOX		

P.W.A. NO.	KEY SHEET	POSITION SHT
R.O.W NO.	ESW	14SE22

DRAWING SCALE
PLAN SCALE: AS SHOWN
PROFILE SCALE:

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE - PROPERTY MANAGEMENT

STANSBURY PARK - PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

STAIRS AND MISCELLANEOUS DETAILS

SUBDIVISION: **STANBROOK**

ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
S-09	23119 GXO
	JOB ORDER NUMBER
	SHEET 26 OF 29
	DRAWING NUMBER
	2024-0073
	FILE NO.: 9 REV. 03/25

DWG. FILENAME:

8/26/2024
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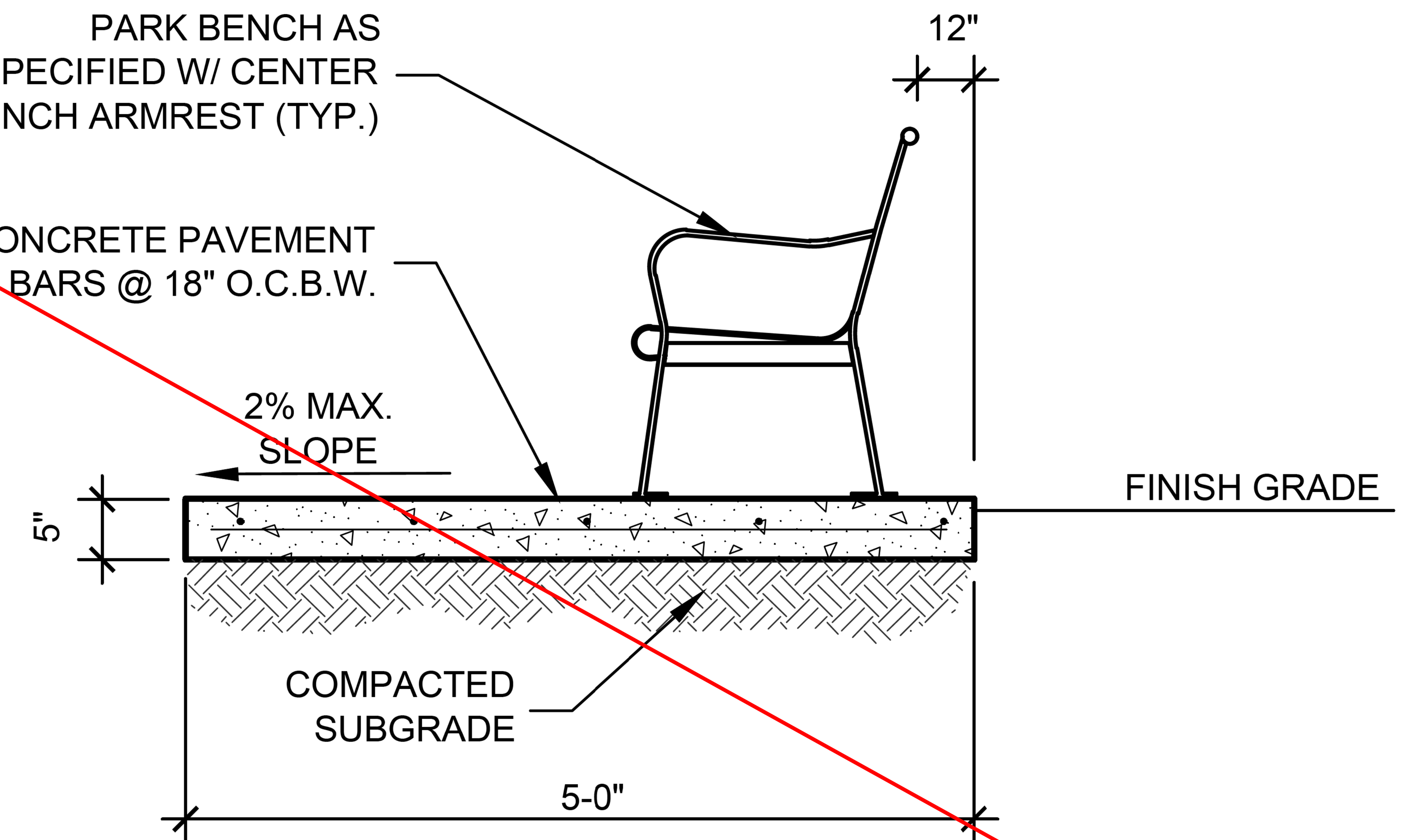
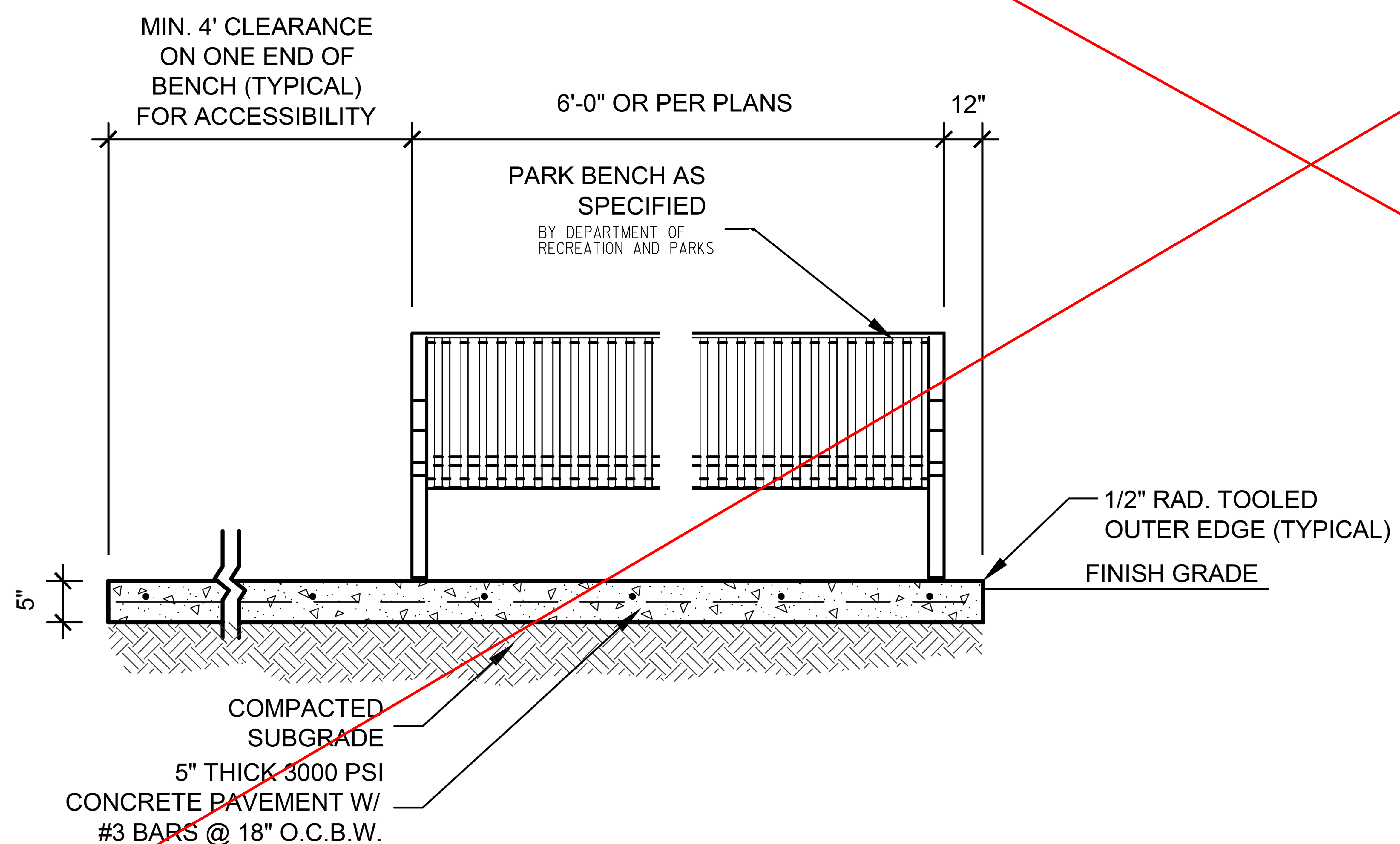
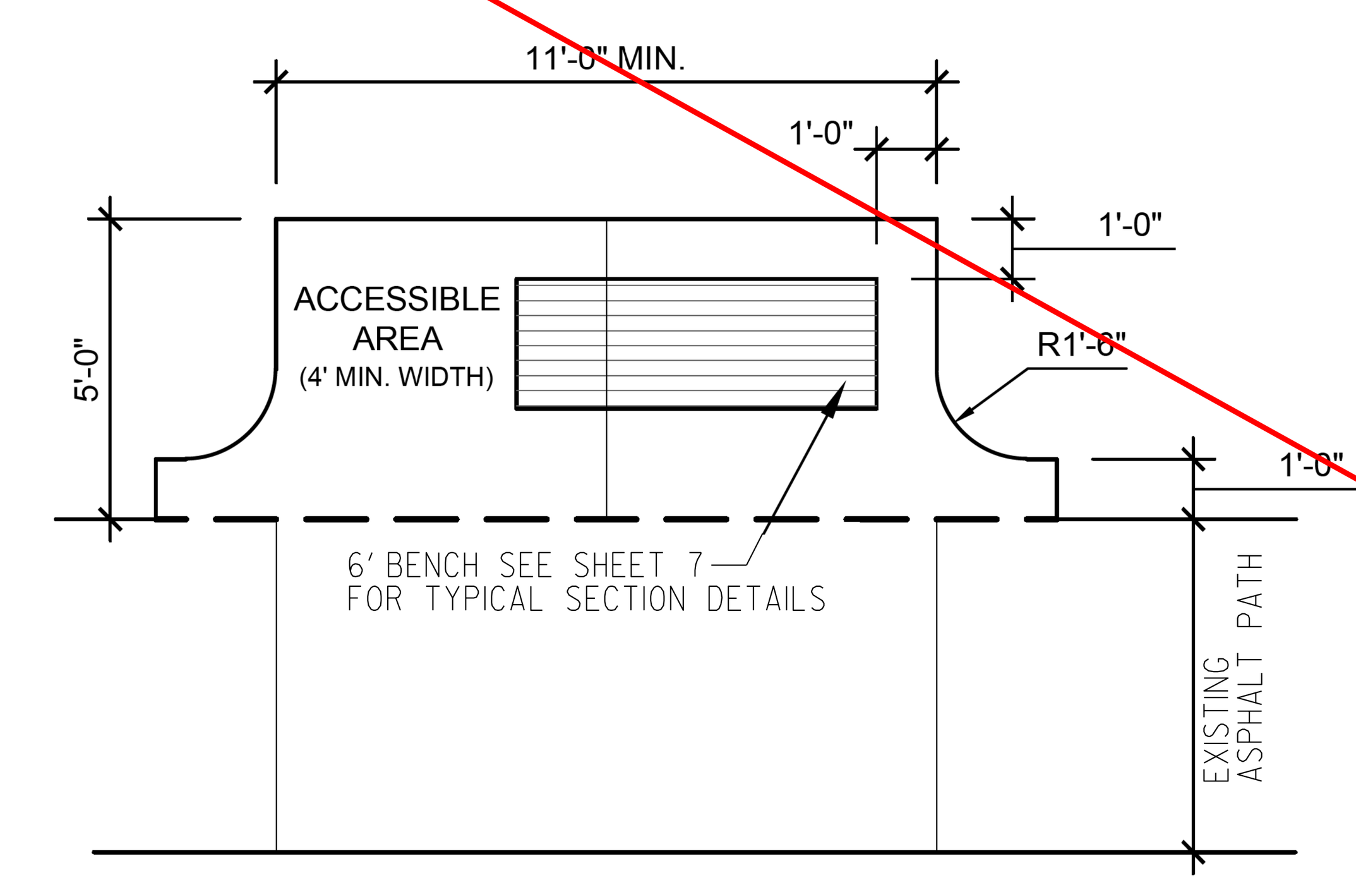


SECTION
TYPICAL BENCH DETAILS



ELEVATION
TYPICAL BENCH DETAILS

NOT IN CONTRACT



BENCH PLAN AT EXISTING ASPHALT PATH WALK

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Columbia, Maryland 21044
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MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM – NAD 83 (2011)
VERTICAL DATUM – NAVD 88

SEAL: STATE OF MARYLAND – TIMOTHY EUGENE McSHANE – No. 17262 – PROFESSIONAL ENGINEER

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LICENSE NO. 17262 , EXPIRATION DATE 02/24/2025 .

ENGINEER: TIM MCSHANE
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: MMU
DWN BY: MMU
CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
				ESW	14SE22	PLAN SCALE:	AS SHOWN
			R.O.W NO.			PROFILE SCALE:	
CONTRACT COMPLETION BOX							

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

PROPERTY MANAGEMENT
APPROVED BY: ________ PROPERTY MANAGER
DATE: ________

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

BENCH AND SLAB DETAILS

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
S-10	23119 GXO
	JOB ORDER NUMBER
	SHEET **27** OF **29**
	DRAWING NUMBER
	2024-0074
	FILE NO.: 9 REV. 03/22

DWG. FILENAME:

8/23/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task10-StansburyPier\Drawings\CADD\Working\sBR-DE04_stansbury.dgn

LOG OF BOREHOLE SB-1

Project No. 2018117-10 — Sheet 1 of 2

CLIENT: Brudis & Associates, Inc
PROJECT: **Stansbury Park - Park Improvement**
ARCHITECT/ENGINEER:
SITE: **Baltimore County, Maryland**

SURFACE ELEV.: **5.0** ft.

Depth	Description	Elev.	Depth (ft)	Blows/6" N-Value RQD	Number	Type	In. Recovered / In. Driven	Moisture (%)	Dry Density (PCF)	Qu (TSF)	% Passing #200 Sieve	Remarks/Additional Data
0.7	8" Topsoil	4.3										
	Moist, Very Loose to Loose, Brown and Gray, CLAYEY SAND (SC), with gravel			3-2-2 N=4	1	SS	15/18 83%	24				
				3-3-3 N=6	2	SS	10/18 56%	27				
5.0	Wet, Very Loose, Gray, Brown and Light Gray, SILTY SAND (SM)	0.0	5	2-2-1 N=3	3	SS	12/18 67%	24				
				2-1/12"	4	SS	8/18 44%	21			31	
12.0	Wet, Dense, Light Brown, POORLY GRADED SAND (SP)	-7.0	10	12-20-20 N=40	5	SS	18/18 100%	22				
			15	12-20-21 N=41	6	SS	18/18 100%	18			8	
			20	18-18-16 N=34	7	SS	18/18 100%	15				
28.0	Moist, Very Stiff, Light Gray and Tan, SANDY LEAN CLAY (CL)	-23.0	25	7-17-39 N=56	8	SS	12/18 67%	18				
			30	14-24-33 N=57	9	SS	18/18 100%	12			59	
			35	12-17-24 N=41	10	SS	18/18 100%	18				LL = 25 PL = 14 PI = 11
42.0		-37.0	40									

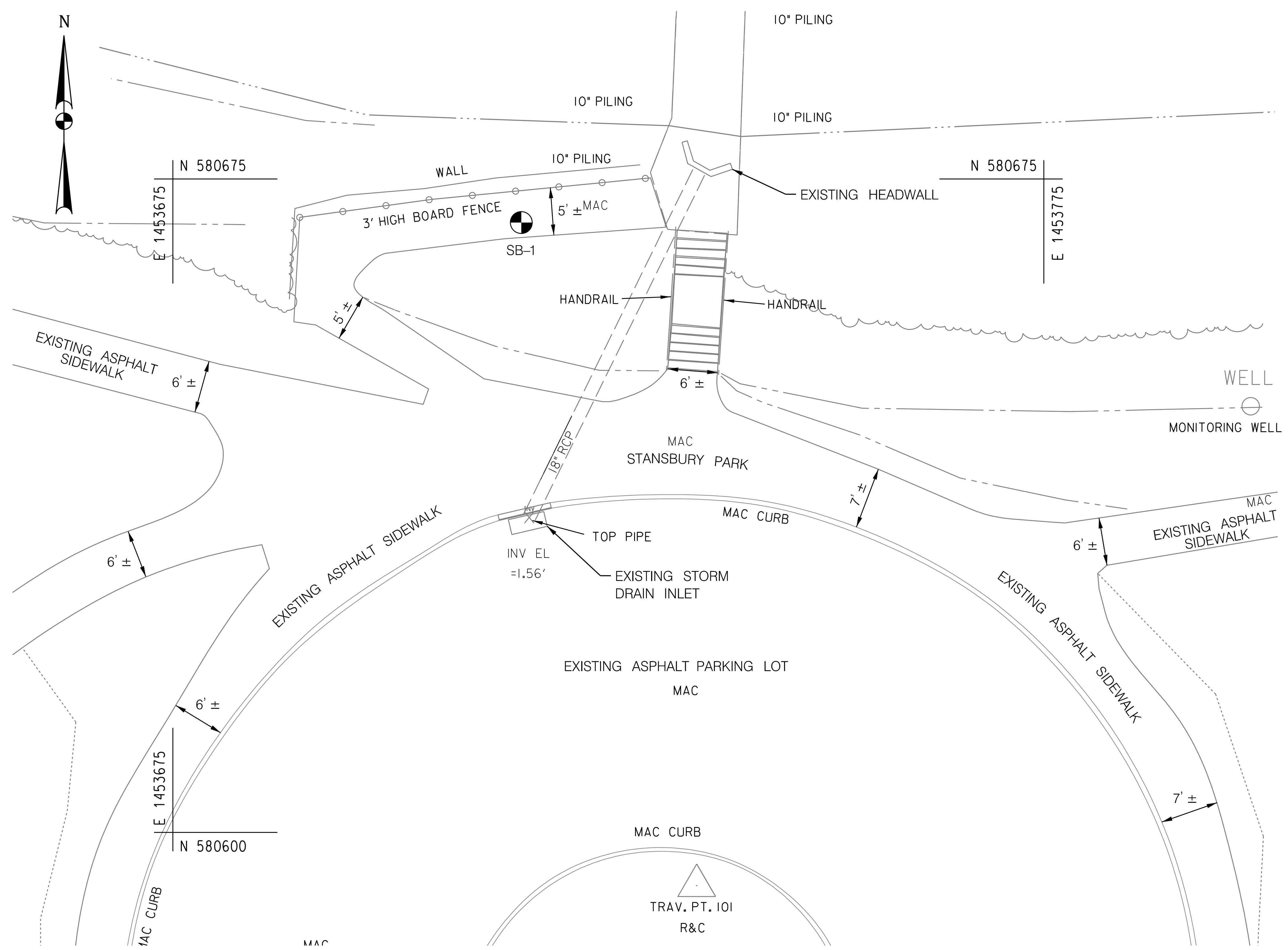
Continued Next Page

WATER LEVEL OBSERVATIONS			
WL	∇	21	@ Drilling
WL	▼	21	@ 0 hr

AB Consultants, Inc.
9450 Annapolis Road
Lanham, MD 20706
Phone: 301-306-3091
Fax: 301-306-3092

STARTED:	2/14/23	FINISHED:	2/14/23
DRILL CO.:	ABC	DRILL RIG:	D-50
DRILLER:	KM	ASS'T DRILLER:	
LOGGED BY:		APPROVED:	

BORING LOG AB09 2018117-10 STANSBURY PARK.GPJ AB CONS.GDT 3/1/23



PLAN

SCALE: 1" = 10'

10' 0 10' 20'
SCALE: 1" = 10'

BORING TARGETS

NO.	NORTHING	EASTING	EX. GROUND ELEVATION
SB-1	1,453,715.0000	580,670.0000	4.92

LOG OF BOREHOLE SB-1

Project No. 2018117-10 — Sheet 2 of 2

CLIENT: Brudis & Associates, Inc
PROJECT: **Stansbury Park - Park Improvement**
ARCHITECT/ENGINEER:
SITE: **Baltimore County, Maryland**

(continued)

Depth	Description	Elev.	Depth (ft)	Blows/6" N-Value RQD	Number	Type	In. Recovered / In. Driven	Moisture (%)	Dry Density (PCF)	Qu (TSF)	% Passing #200 Sieve	Remarks/Additional Data
	Wet, Very Dense, Tan, POORLY GRADED SAND (SP)		45	20-40-50/5"	11	SS	17/17 100%	20			7	
50.0		-45.0	50	14-24-43 N=67	12	SS	18/18 100%	22				

End of Boring @ 50 ft

Borehole was backfilled after water level reading

WATER LEVEL OBSERVATIONS			
WL	∇	21	@ Drilling
WL	▼	21	@ 0 hr

AB Consultants, Inc.
9450 Annapolis Road
Lanham, MD 20706
Phone: 301-306-3091
Fax: 301-306-3092

STARTED:	2/14/23	FINISHED:	2/14/23
DRILL CO.:	ABC	DRILL RIG:	D-50
DRILLER:	KM	ASS'T DRILLER:	
LOGGED BY:		APPROVED:	

BORING LOG AB09 2018117-10 STANSBURY PARK.GPJ AB CONS.GDT 3/1/23

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MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
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SEAL: STATE OF MARYLAND — TIMOTHY EUGENE McSHANE — No. 17262 — PROFESSIONAL ENGINEER

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AS-BUILT PER RECORD PRINT
BY:
DATE:

DGN BY: KBJ
DWN BY: KBJ
CHKD BY: TEM

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE		PROPERTY MANAGEMENT
				ESW	14SE22	PLAN SCALE:		APPROVED BY: PROPERTY MANAGER
			R.O.W NO.			PROFILE SCALE:		DATE:
CONTRACT COMPLETION BOX								
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	
REVIEWED BY:								
DATE REVIEWED:								

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222
BORING AND DRIVE TEST

SUBDIVISION: **STANBROOK**
ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
S-11	23119 GXO
	JOB ORDER NUMBER
	SHEET **28** OF **29**
	DRAWING NUMBER: 2024-0075
	FILE NO.: 9 REV. 03/22

DWG. FILENAME:

8/23/2024
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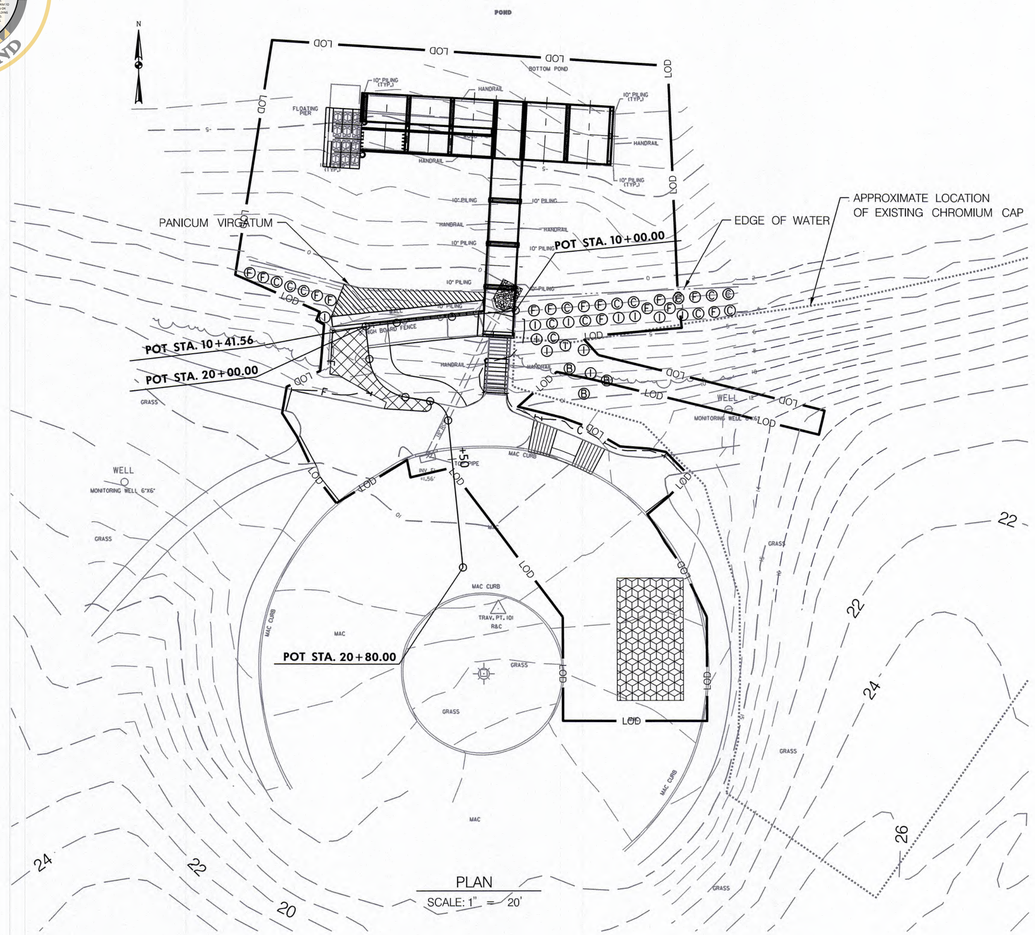

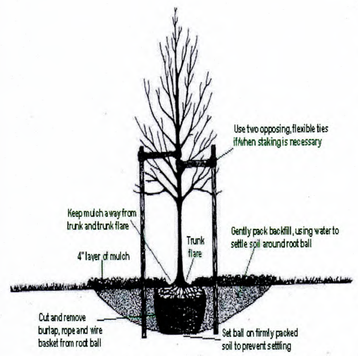

Standards & Specifications For Planting/Maintenance of Plants

1. Dig hole 2-3 times as wide as container or root ball.
2. Dig hole no deeper than height of new tree's root ball.
   Top of root ball should be level or slightly above soil surface.
   Better 1" too high – than 1" too low.
3. Remove container, cut large and circling roots.
   Gently pull and loosen outside roots from the root ball.
4. Place tree in prepared hole, being sure the tree is straight up and centered in the hole.
5. Backfill hole with original soil, breaking up clumps and tamping
   firmly as you go. Do not tamp on the roots, only around the roots.
   Remove soil from grass clumps. Do not replace grass in hole.
6. Apply 4" of mulch to entire disturbed area.
   Do not let mulch touch the tree trunk.
7. After tree is planted, water to settle soil and minimize large air pockets.

Mulching

- Retains soil moisture, Suppresses weed growth, Moderates soil temperatures, Improves soil fertility
- Eliminates need for mowing and weed trimming around base of trees

Apply 4" of mulch evenly to the entire disturbed surface area around the tree. Avoid mounding mulch. Keep the mulch 2" clear of trunk to avoid creating favorable places for pests and rotting of bark.

Watering

Water for recently planted trees is essential. Some water is better than none, but 3-5 gallons a week, if it doesn't rain, is ideal. Water slowly to avoid runoff. Browning, wilting, scorch, and dieback are most often caused by lack of water.

Don't wait for signs of moisture stress to show before watering.

Fertilizing

Fertilizing usually is recommended after second year after planting to improve growth rate and density of foliage. Apply slow release fertilizer late September to early November. Broadcast about ¼ lb of 33-0-0 (nitrogen) per 5'x5' area from the trunk outward, or apply a balanced fertilizer (nitrogen, phosphorus, potassium and micronutrients) according to the manufacturer's label. Remember, too much fertilizer can injure your plant.

Plants shall be monitored as necessary to keep invasive plants from the area directly around the plant. Plants shall be watered and mulched as required by the conditions. Diseased or dying plants shall be pruned, or removed as soon as possible, and replaced to maintain the required 100% survival. Any species substitutions must be native to Maryland, and must receive prior approval from Baltimore County Dept. of Environmental Protection & Sustainability.

Critical Area Buffer Management Plan (CABM)

The planting, or other mitigation and BMP requirements shall be completed at the completion of the work. The plantings must meet a 100% survivability requirement for two years following approval of the initial planting by Baltimore County Dept. of Environmental Protection & Sustainability (DEPS).

Any deviation from the approved final CABM plan shall be documented on a revised CABM plan. The revised CABM plan shall be reviewed and approved by DEPS prior to approval of the initial planting.

DEPS shall entertain requests for planting inspections at the following stages, subject to conditions herein:

a. Implementation of the CABM plan:

   Upon inspection and approval of the planting, DEPS may begin the two (2) year maintenance agreement. The applicant shall be responsible for notifying DEPS that the planting has been completed. Failure to request the required initial inspection of plantings will result in an automatic extension of the maintenance requirement by a timeframe determined by DEPS, not to exceed two (2) calendar years.

b. Upon completion of the first year of the maintenance agreement:

   The requirement for inspection is repeated at the end of the first year. If the plantings do not meet the one hundred (100) percent survival requirements outlined in COMAR 27.01.09.01-2, the applicant shall establish reinforcement plantings in accordance with the approved CABM plan. If deficiencies exist, and they are not corrected, DEPS reserves the right to extend the maintenance requirement by a timeframe determined by DEPS, not to exceed two (2) calendar years.

c. Upon completion of the second year of the maintenance agreement:

   The requirement for inspection is repeated at the end of the second year. If the plantings do not meet the one hundred (100) percent survival requirements outlined in COMAR 27.01.09.01-2, the applicant shall establish reinforcement plantings in accordance with the approved CABM plan. If deficiencies exist, and they are not corrected, DEPS reserves the right to extend the maintenance requirement by a timeframe determined by DEPS, not to exceed two (2) calendar years. If the planting is found to meet all requirements, DEPS can grant final approval.

LOT COVERAGE REQUIREMENTS
Within the limits of disturbance for the portion of the project located within the Resource Conservation Area (RCA), there is no increase in lot coverage.

	Buffer Mitigation Requirements/ New Buffer Impacts of 1,124 sq. ft. must be mitigated at 2:1 (2,248 sq. ft.) /Mitigation to be provided by planting on-site in the buffer. Buffer Establishment is not required for this project. PLANTING MUST BE COMPLETED FOLLOWING PROJECT COMPLETION						
SYMBOL	Species To Be Planted	Common Name	Vegetation Type	Minimum Size For This Credit (size when planted)	Credit Allowed Per Plant (Square Feet)	Quantity Planted	Total Credits
B	Betula nigra	River Birch	Canopy Tree	¾ inch	100	3	300
I	Itea virginica	Virginia Sweetspire	Large Shrub	3-feet high	50	11	550
F	Iva frutescens	Marsh Elder	Large Shrub	3-feet high	50	14	700
C	Cornus ammomum	Silky Dogwood	Large Shrub	3-feet high	50	14	700
P	Panicum virgatum	Switchgrass	Grass	plug	2	5	10
ground cover	Riparian Seed Mix (indicate specific mix)	Indicate specific mix	Ground cover	N/A	0	Entire planting area	N/A
	TOTAL PLANTING CREDITS Provided = 2260 sq ft. , meets requirements						

There shall be no clearing, grading, construction or disturbance of vegetation in the Critical Area Buffer except as permitted by the Baltimore County Department of Environmental Protection and Sustainability.

I/We have read the information presented in this buffer management plan and do hereby agree to adhere to all requirements to bring the subject property into compliance with Baltimore County Code Article 33,Title 2,Chesapeake Bay Critical Areas Protection, and all applicable State of Maryland Critical Area requirements.

GM Doran 9/17/24 Gregory M. Doran

Baltimore County Property Management Signature **Date** **Printed Name of Signatory**

BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY
CRITICAL AREA MANAGEMENT PLAN
Approved by: Date: 09/19/2024
Environmental Impact Review
Critical Area Management Plan # CA-2024-042

LEGEND

EXISTING 1-FT CONTOUR	STOCKPILE AREA
EXISTING 2-FT CONTOUR	PROPOSED CUT LINE
EXISTING 5-FT CONTOUR	PROPOSED FILL LINE
ASPHALT SIDEWALK	EDGE OF WATER LINE
CONCRETE SIDEWALK	ITEA VIRGINICA
PAVEMENT REMOVAL	IVA FRUTESCENS
ASPHALT PAVEMENT	CORNUS AMOMUM
LOD LIMIT OF DISTURBANCE	BETULA NIGRA
	PANICUM VIRGATUM1

NOTE: NO HEAVY EQUIPMENT OR EXCAVATION SUGGESTED FOR CONSTRUCTION WITHIN THE DISPLAYED CHROMIUM CAP AREA. IF HEAVY EQUIPMENT IS REQUIRED, TIMBER CRANE MATS SHALL BE USED TO PROTECT THE CHROMIUM CAP AREA. COST OF MATS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

BAI
BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway • Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

MARYLAND COORDINATE SYSTEM
HORIZONTAL DATUM - NAD 83 (2011)
VERTICAL DATUM - NAVD 88

SEAL: STATE OF MARYLAND · ANKUR PATEL · No. 52748 · PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 52748 , EXPIRATION DATE 06/03/2026
ENGINEER: ANKUR PATEL
AS-BUILT PER RECORD PRINT
BY:
DATE:
DGN BY: AP
DWN BY: CC
CHKD BY: AP

AS-BUILT / REVISION | BY | DATE

CONTRACT COMPLETION BOX

P.W.A. NO.	KEY SHEET	POSITION SHT
R.O.W NO.	ESW	14SE22

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DRAWING SCALE
PLAN SCALE: AS SHOWN
PROFILE SCALE: AS SHOWN

PROPERTY MANAGEMENT
APPROVED BY: PROPERTY MANAGER
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE – PROPERTY MANAGEMENT

STANSBURY PARK – PARK RENOVATIONS
7800 STANSBURY ROAD, DUNDALK, MD 21222

CRITICAL AREA MANAGEMENT PLAN

SUBDIVISION: **STANBROOK** ELECTION DIST. NO.: **12C7**

SHEET DESIGNATION	CONTRACT NUMBER
L-07	23119 GXO
JOB ORDER NUMBER	
SHEET 29 OF 29	
DRAWING NUMBER	
2024-0076	
FILE NO.: 9	REV. 00/00

BALTIMORE COUNTY MARYLAND

8/23/2024
P:\19-010 Baltimore Co. On-Call Civil-Site Design\Task\0-Stansbury\Plan\Drawings\CADD\Working\pLD-100_Stansbury Park.dgn
DWG. FILENAME: