

BEFORE YOU DIG CALL
1-800-257-7777 OR DIAL 811



BEVERLY TRITON NATURE PARK LIVING SHORELINE

PHASE 2

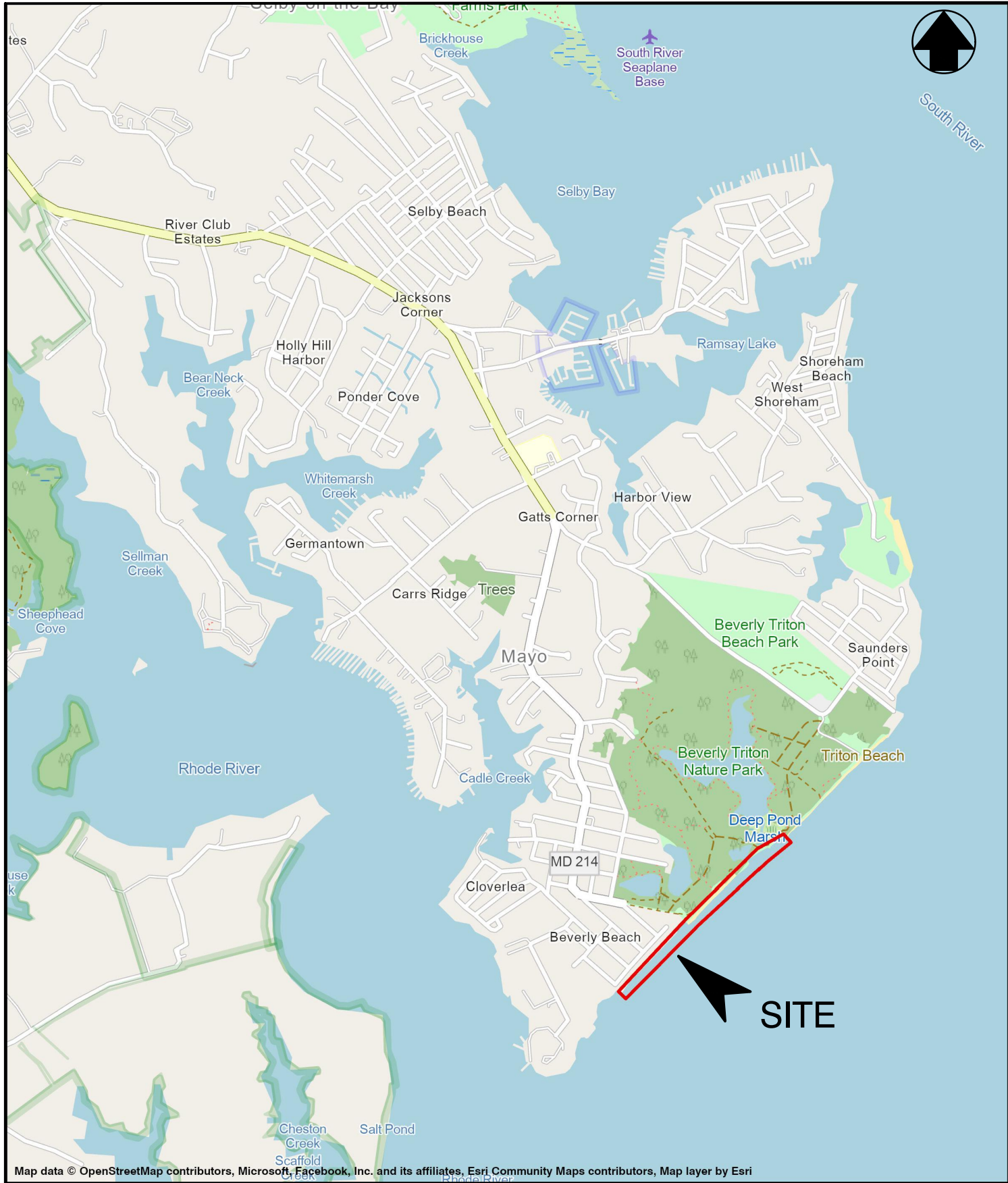
RESILIENCE AUTHORITY

ANNE ARUNDEL COUNTY, MARYLAND

DECEMBER 2025

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ANNE ARUNDEL COUNTY STANDARD SPECIFICATIONS OR DETAILS FOR CONSTRUCTION UNLESS OTHERWISE NOTED. THE STATE HIGHWAY ADMINISTRATION'S HIGHWAY'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS AND THE BOOK OF STANDARDS FOR HIGHWAY & INCIDENTAL STRUCTURES SHALL BE USED IF NO ANNE ARUNDEL COUNTY STANDARD OR DETAIL EXIST.
- THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO THEIR SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-257-7777 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING AND/OR DIGGING FOR THE LOCATION OF GAS, ELECTRIC, TELEPHONE, WATER AND SEWER LINES.
- MECHANICAL EXCAVATION SHALL NOT BE CONDUCTED WITHIN 3 FEET HORIZONTALLY OR WITHIN 2 FEET VERTICALLY OF KNOWN UTILITY LOCATIONS. HAND OR SOFT DIGGING SHALL BE DONE WITHIN THESE LIMITS. UNDERGROUND UTILITIES, ONCE UNCOVERED, SHALL BE PROTECTED FROM BEING STRUCK BY EQUIPMENT.
- 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 THEIR RESPONSIBILITY TO COMPLETE SUCH WORK.
- ALL TREES WITH A DIAMETER GREATER THAN 12 INCHES WITHIN THE LIMIT OF DISTURBANCE SHALL NOT BE REMOVED UNLESS PRIOR APPROVAL IS OBTAINED OR EXPLICITLY SHOWN ON THE PLANS TO BE REMOVED. ALL TREES TO REMAIN WITHIN THE LIMIT OF DISTURBANCE THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED.
- ALL FILL AREAS SHALL BE CLEANED OF ALL VEGETATION AND DEBRIS, SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES PRIOR TO THE PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN CONTROLLED LIFTS WITH A MAXIMUM THICKNESS OF 8" PRIOR TO COMPACTION THAT IS CONTINUOUS OVER THE ENTIRE AREA OF FILL. EACH LAYER OF FILL SHALL BE COMPACTED WITH THE MINIMUM NUMBER OF PASSES NECESSARY TO PRODUCE A FULL ASYMPTOTIC COMPACTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS TESTING INCLUDING CONCRETE, FLOWABLE FILL, HOT MIX ASPHALT AND FILL COMPACTION. ALL MATERIALS TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND SHALL BE COMPENSATED FOR AS PART OF THE APPROPRIATE PAY ITEM.
- SEE STANDARD GEOTECHNICAL NOTES FOR FILL COMPACTION TESTING REQUIREMENTS.
- ALL DISTURBED AREAS SHALL HAVE PERMANENT OR TEMPORARY STABILIZATION COMPLETED WITHIN:
 - END OF THE WORK DAY FOR AREAS WITHIN WATERWAYS.
 - THREE CALENDAR DAYS ON SLOPES GREATER THAN 3:1 AND TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS.
 - SEVEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS.
 - ALL STABILIZATION MUST BE IN ACCORDANCE WITH MARYLAND DEPARTMENT OF AGRICULTURE (MDA) FERTILIZER LAW.
- ALL DISTURBED AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH 100% BIODEGRADABLE SOIL STABILIZATION MATTING THAT HAS A SUFFICIENT DESIGN SHEAR STRESS FOR THE APPLICATION OR AS SHOWN ON THE APPROVED SEDIMENT AND EROSION CONTROL PLANS.
- ALL PERMANENTLY STABILIZED AREAS SHALL INCLUDE A MINIMUM OF 4" OF TOPSOIL PER THE 2011 MDE SPECIFICATIONS.
- ALL STAKING, RESTAKING, AND CUT SHEETS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH STATE OF MARYLAND OCCUPATIONAL SAFETY LAWS.
- CONTRACTOR MUST ENSURE THAT COPIES OF FEDERAL, STATE, AND COUNTY PERMITS ARE POSTED ON SITE PRIOR TO THE START OF ANY WORK.
- ALL ROADS SHALL BE CLEANED AND CLEARED BY THE END OF EACH DAY. ANY MUD OR ROCKS TRACKED ON THE ROADWAYS SHALL BE SWEEPED BEFORE THE END OF SHIFT EACH DAY.
- CONTRACTOR SHALL RESTORE ALL AREAS IMPACTED BY CONSTRUCTION ACTIVITY. THIS SHALL INCLUDE BUT IS NOT LIMITED TO GRASS AREAS, ROADS, PAVED AREAS, ETC...

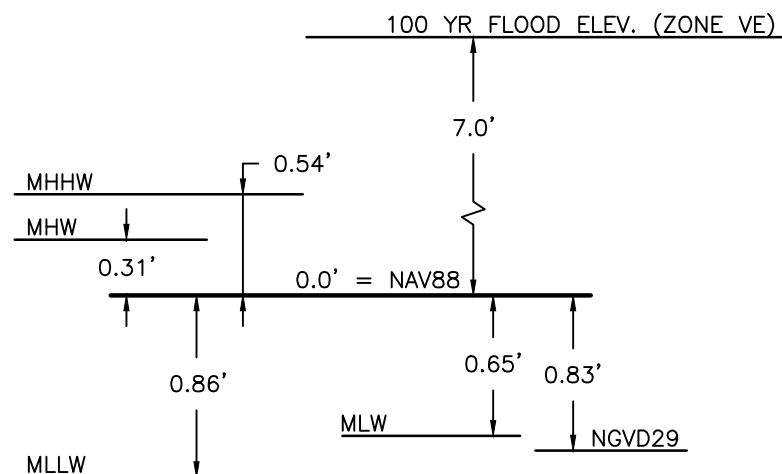


LOCATION MAP

SCALE: 1"=2000'

PROJECT INFORMATION

- | | |
|---|---|
| 1. OWNER/DEVELOPER: | ACO DEPT. RECREATION & PARKS
CONTACT: |
| 2. OWNER/DEVELOPER INFORMATION: | 1 HARRY S TRUMAN PKWY
ANNAPOLIS MD, 21401
PHONE: 410-222-7300 |
| 3. ENGINEER: | BAYLAND CONSULTANTS AND DESIGNERS, INC. |
| 4. ENGINEER INFORMATION: | 7455 NEW RIDGE ROAD, SUITE T
HANOVER, MARYLAND 21076
PH: 410-694-9401 |
| 5. TAX MAP: | TAX MAP# 60 |
| 6. PARCEL: | PARCEL# 2 |
| 7. AA COUNTY GRADING PERMIT NO: | TBD |
| 8. DISTRICT: | 01 |
| 9. ZONING: | OS (OPEN SPACE) |
| 10. PROPERTY AREA: | 341.135 ACRES |
| 11. WATERSHED: | WEST RIVER (02131004) |
| 12. MDE TIDAL WETLANDS PERMIT NO: | ##-XX-#### |
| 13. SITE AREA LOCATED WITHIN CRITICAL AREA: | 0.75 ACRES |



DATUM CONVERSIONS

NOTE:
NOT TO SCALE
DATUM COMPARISON BASED ON NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM FROM SITE LOCATION (NORTHING) 443530.038, (EASTING) 1456639.678.

SITE ANALYSIS

- | | |
|--|---------------|
| 1. TOTAL SITE AREA: | 341.135 ACRES |
| 1.1. PROPOSED DISTURBED AREA: | 0.75 ACRES |
| 2. TOTAL AREA TO BE STABILIZED: | ### ACRES |
| 2.1. TOTAL EX. IMP AREA: | 1.37 ACRES |
| 2.2. TOTAL EX. IMP. AREA TO REMAIN: | ### ACRES |
| 2.3. TOTAL PR. IMPERVIOUS AREA: | ### ACRES |
| 2.4. TOTAL TO BE STABILIZED WITH VEGETATION: | 0.23 ACRES |
| 3. PROPOSED IMPERVIOUS AREA: | ### ACRES |
| 4. ESTIMATED CUT: | 0 CY |
| 5. ESTIMATED FILL: | TBD CY |

NOTE:
THE EARTHWORK QUANTITIES SHOWN HEREON ARE FOR INFORMATION PURPOSES ONLY. BAYLAND MAKES NO GUARANTEES OF ACCURACY OF QUANTITIES OR BALANCE OF SITE. THE DEVELOPER AND CONTRACTOR SHALL TAKE FULL RESPONSIBILITY OF ACTUAL EARTHWORK QUANTITIES ENCOUNTERED DURING CONSTRUCTION.

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. 21194, EXPIRATION DATE: 04/20/2026.

30% CONCEPT



7455 New Ridge Road, Suite T Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9405

www.baylandinc.com

BAYLAND JOB NO. 8_55301

CONSULTANT'S CERTIFICATION

THE DEVELOPER'S PLAN TO CONTROL SILT AND EROSION IS ADEQUATE TO CONTAIN THE SILT AND EROSION ON THE PROPERTY COVERED BY THE PLAN. I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THIS SITE, AND WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASCD PLAN SUBMITTAL GUIDELINES AND THE CURRENT MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER / DEVELOPER

MD P.E. LICENSE NO.: 21194
NAME: SEPEHR BAHARLOU
FIRM NAME: BAYLAND CONSULTANTS & DESIGNERS, INC.
ADDRESS: 7455 NEW RIDGE ROAD, SUITE T
CITY: HANOVER STATE: MD ZIP CODE: 21076

GENERAL SITE NOTES

- MEAN TIDAL RANGE IS APPROXIMATELY 0.96 FEET BASED ON VDATUM.
 - HYDROGRAPHIC AND TOPOGRAPHIC SURVEYS WERE PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC. ON JULY 8, 2025, AND JULY 9, 2025.
 - HORIZONTAL CONTROL IS BASED ON THE MARYLAND COORDINATE SYSTEM (NAD83/1991).
 - SOUNDINGS ARE IN FEET AND REFER TO THE LOCAL MEAN LOW WATER DATUM (MLW).
- HORIZONTAL AND VERTICAL CONTROL ESTABLISHED FROM REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) CONTROL POINTS.COORDINATES AND BEARINGS SHOWN HEREON REFER TO THE MARYLAND COORDINATE SYSTEM (NAD83/91). ELEVATIONS SHOWN HEREON REFER TO MEAN LOW WATER (MLW). CONTROL POINTS SET BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON 02/18/2019 AND 09/24/2025
- | POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|-----------|-------------|-----------|--------------------|
| 103 | 440,916.4 | 1,453,976.7 | 3.55 | MAG & PIPE |
| 200 | 442,067.5 | 1,455,118.0 | 4.11 | YELLOW PLASTIC CAP |
| 201 | 441,798.9 | 1,454,793.6 | 3.16 | YELLOW PLASTIC CAP |
| 202 | 440,845.4 | 1,453,866.1 | 4.67 | YELLOW PLASTIC CAP |
| 203 | 440,378.9 | 1,453,319.9 | 7.88 | YELLOW PLASTIC CAP |
- CONTOURS SHOWN OUTSIDE OF LIMIT OF WORK ARE BASED ON 2023 COUNTY LIDAR TOPOGRAPHY. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY PLANIMETRICS.
 - PROPERTY LINES SHOWN ARE BASED ON ANNE ARUNDEL COUNTY 2025 CADASTRAL DATA.
 - THE PROJECT SITE IS WITHIN FEMA FLOODPLAIN LIMITS (ZONE VE - 7 FT NAVD88) SHOWN ON FEMA FIRMS 24003C0263F, 24003C0244F, AND 24003C0307F.
 - THE PROJECT SITE IS WITHIN RESOURCE CONSERVATION AREA (RCA) CHESAPEAKE BAY CRITICAL AREA.
 - THE PROJECT IS WITHIN THE 100' CRITICAL AREA BUFFER MODIFICATION AREA.
 - MARYLAND WETLANDS LICENSE NO. XX-WL-XXXX. U.S. ARMY CORPS OF ENGINEERS PERMIT - MARYLAND STATE PROGRAMMATIC GENERAL PERMIT (TRACKING NO. NAB-20XX-XXXXX).
 - ANNE ARUNDEL SOIL CONSERVATION DISTRICT (ASCD) NO. TBD; G.P. NO. TBD.

Sheet List Table

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	KEY SHEET
3	EXISTING CONDITIONS REACH 7
4	EXISTING CONDITIONS REACH 5
5	EXISTING CONDITIONS REACH 3
6	SITE PLAN REACH 7
7	SITE PLAN REACH 5
8	SITE PLAN REACH 3
9	CROSS SECTIONS
10	CROSS SECTIONS
11	BREAKWATER RETROFIT & EXTENSION DETAILS
12	GROIN & PIPE DETAILS



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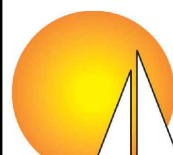


PROFESSIONAL CERTIFICATION

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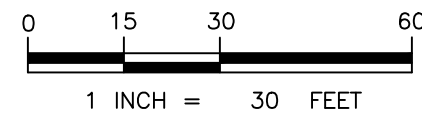
BEVERLY TRITON NATURE PARK LIVING SHORELINE PHASE 2 KEY SHEET

REVISIONS			DESIGNED BY: SB,JH		1/2/26
DATE	BY	DESCRIPTION	DRAWN BY: JH		1/2/26
			CHECKED BY: AJ		1/2/26
			SHEET NO.		2 OF 12



SOILS CHART

SYMBOL	SOIL	HSG
MyB	MATTAPEX-BUTLERTOWN-URBAN LAND COMPLEX (SLOPES 0%-5%)	D
MZA	MISPELLION AND TRANSQUAKING SOILS (SLOPES 0%-1%)	A/D
UxB	UDORTHERTS LOAMY, SUDFIC SUBSTRATUM (SLOPES 0%-5%)	C
DnA	DONLONTON FINE SANDY LOAM (SLOPES 0%-2%)	D
DnB	DONLONTON-URBAN LAND COMPLEX (SLOPES 0%-5%)	D
W	WATER	-



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BEVERLY TRITON
Professional Engineer
No. 21194
Exp. Date: 04/20/2026

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DATE	BY	DESCRIPTION

BEVERLY TRITON NATURE PARK LIVING
SHORELINE PHASE 2
EXISTING CONDITIONS REACH 5

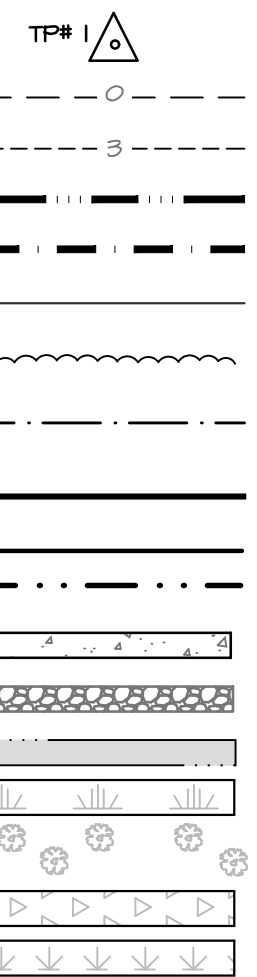
DESIGNED BY: SB,JH 1/2/26
DRAWN BY: JH 1/2/26
CHECKED BY: AJ 1/2/26
SHEET NO. 4 OF 12

REVISIONS

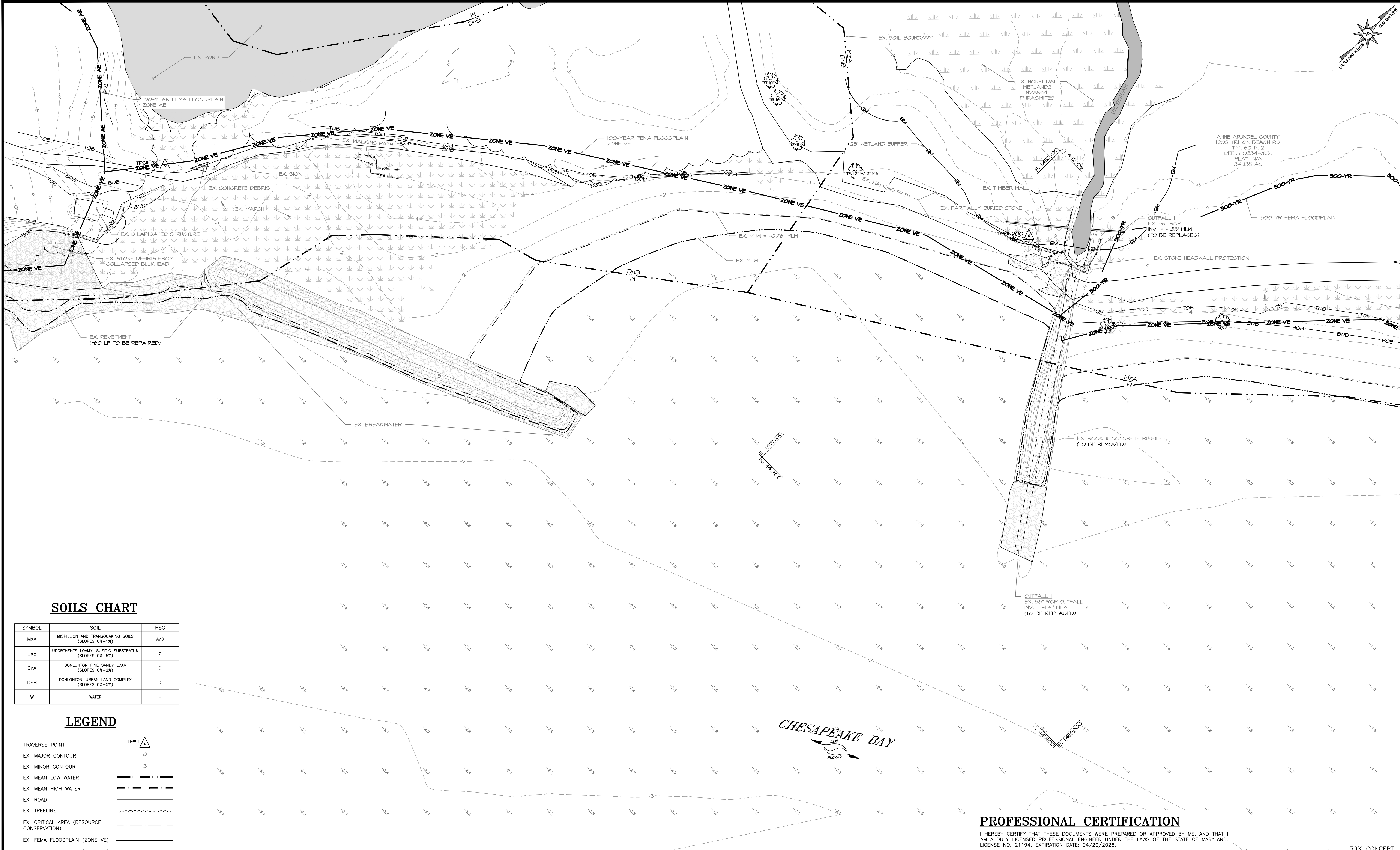
DATE	BY	DESCRIPTION

LEGEND

- TRAVERSE POINT
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. MEAN LOW WATER
- EX. MEAN HIGH WATER
- EX. ROAD
- EX. TREELINE
- EX. CRITICAL AREA (RESOURCE CONSERVATION)
- EX. FEMA FLOODPLAIN (ZONE VE)
- EX. FEMA FLOODPLAIN (ZONE AE)
- EX. SOIL
- EX. CONCRETE
- EX. STONE STRUCTURE
- EX. BODY OF WATER
- EX. NON-TIDAL WETLANDS
- EX. SHRUBS
- EX. SHRUBLAND
- EX. MARSH



30% CONCEPT

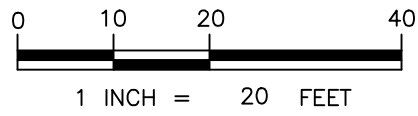


SOILS CHART

SYMBOL	SOIL	HSG
MzA	MISPIILLION AND TRANSQUAKING SOILS (SLOPES 0%~1%)	A/D
UxB	UDORTHERTS LOAMY, SUFIDIC SUBSTRATUM (SLOPES 0%~5%)	C
DnA	DONLONTON FINE SANDY LOAM (SLOPES 0%~2%)	D
DnB	DONLONTON-URBAN LAND COMPLEX (SLOPES 0%~5%)	D
W	WATER	-

LEGEND

TRAVERSE POINT	TP# 1
EX. MAJOR CONTOUR	
EX. MINOR CONTOUR	
EX. MEAN LOW WATER	
EX. MEAN HIGH WATER	
EX. ROAD	
EX. TREELINE	
EX. CRITICAL AREA (RESOURCE CONSERVATION)	
EX. FEMA FLOODPLAIN (ZONE VE)	
EX. FEMA FLOODPLAIN (ZONE AE)	
EX. SOIL	
EX. CONCRETE	
EX. STONE STRUCTURE	
EX. BODY OF WATER	
EX. NON-TIDAL WETLANDS	
EX. SHRUBS	
EX. SHRUBLAND	
EX. MARSH	



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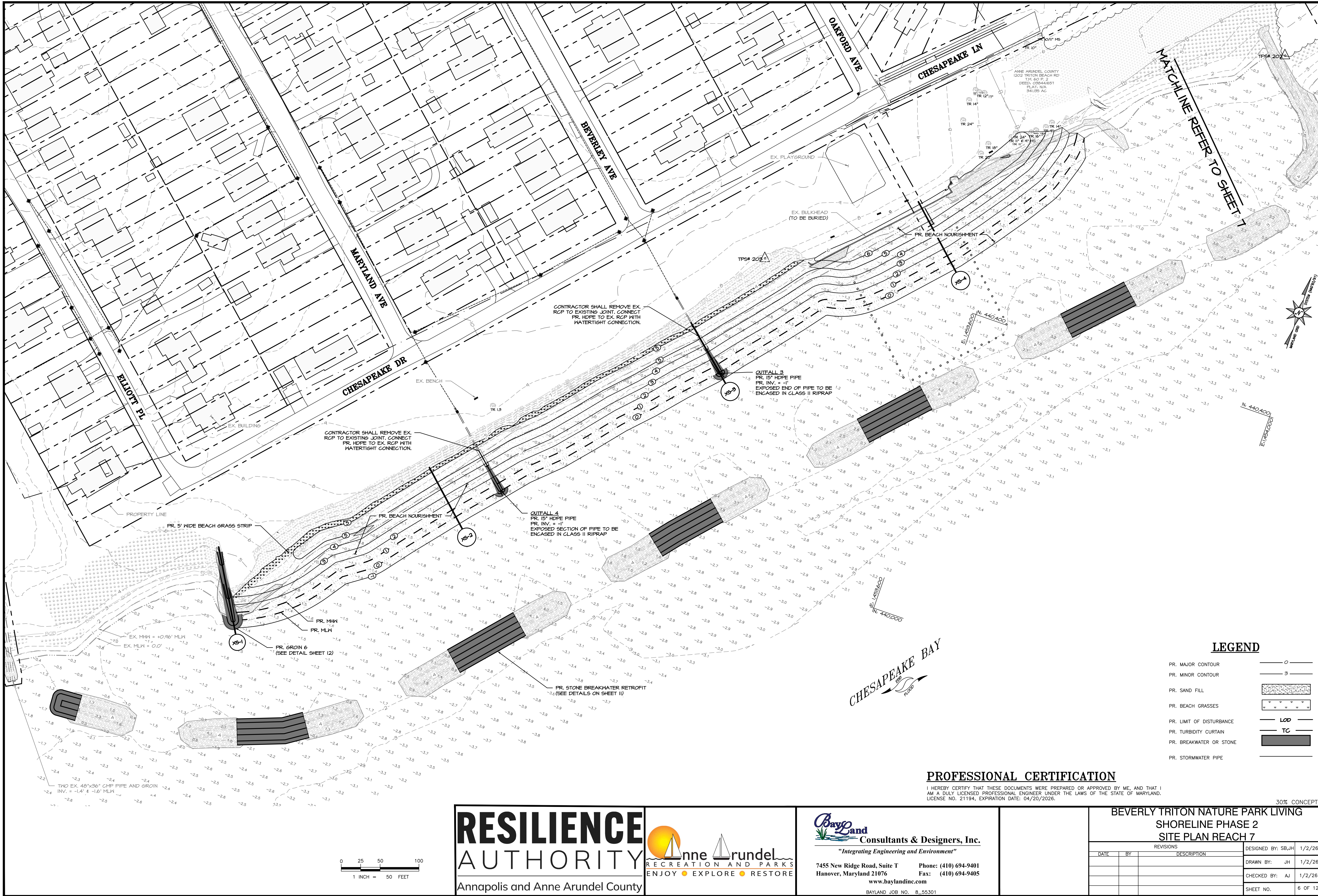
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BEVERLY TRITON NATURE PARK LIVING SHORELINE PHASE 2 EXISTING CONDITIONS REACH 3

REVISIONS		DESIGNED BY: SB,JH	1/2/26
DATE	BY	DESCRIPTION	

DRAWN BY: JH	1/2/26
CHECKED BY: AJ	1/2/26
SHEET NO.	5 OF 12



LEGEND

- PR. MAJOR CONTOUR
- PR. MINOR CONTOUR
- PR. SAND FILL
- PR. BEACH GRASSES
- PR. LIMIT OF DISTURBANCE
- PR. TURBIDITY CURTAIN
- PR. BREAKWATER OR STONE
- PR. STORMWATER PIPE

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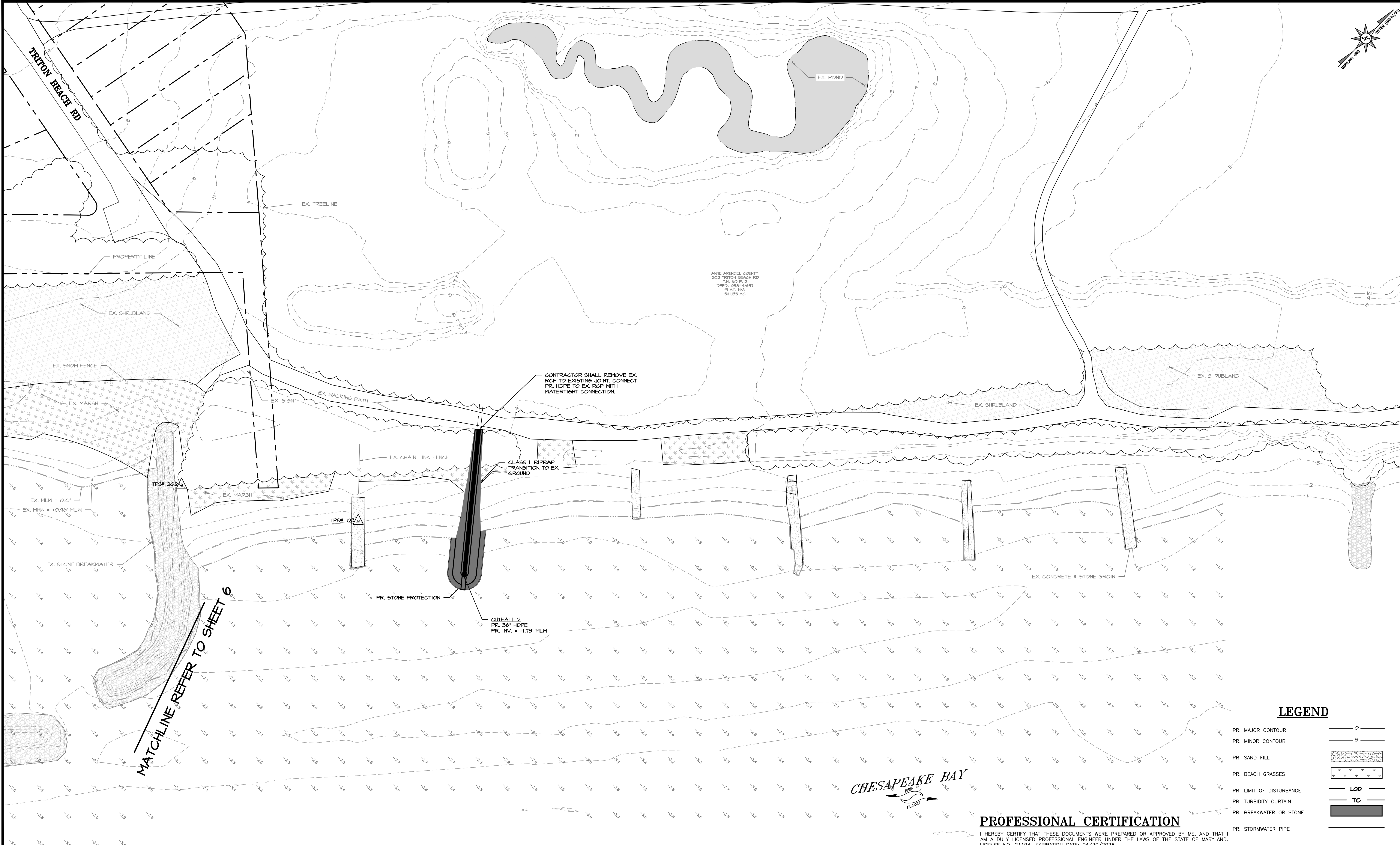
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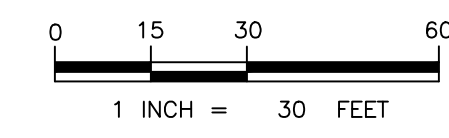
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DATE	BY	DESCRIPTION	DRAWN BY: JH		1/2/26
			CHECKED BY: AJ		1/2/26
			SHEET NO.		6 OF 12

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NOTES

1. EX. STONE FROM GROINS TO BE SALVAGED IF FREE OF CONCRETE.



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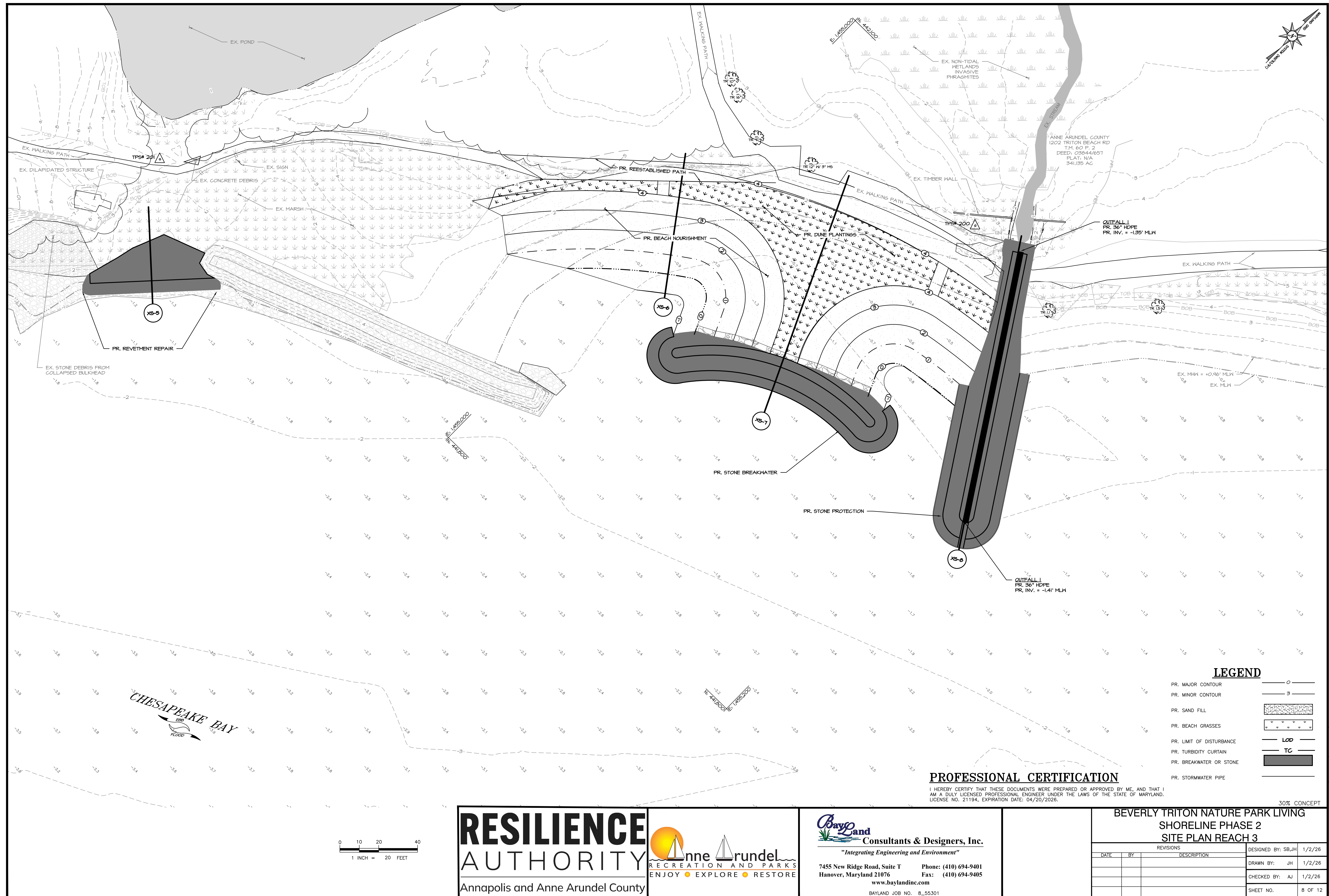
BEVERLY TRITON NATURE PARK LIVING SHORELINE PHASE 2 SITE PLAN REACH 5

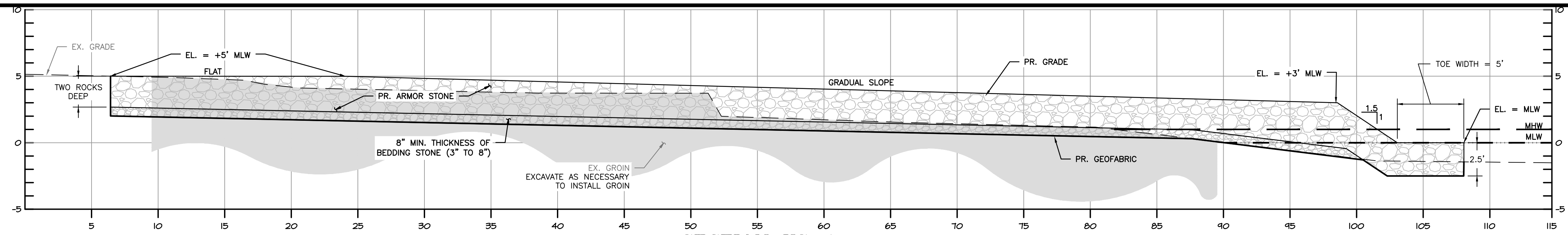
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DATE	BY	DESCRIPTION	

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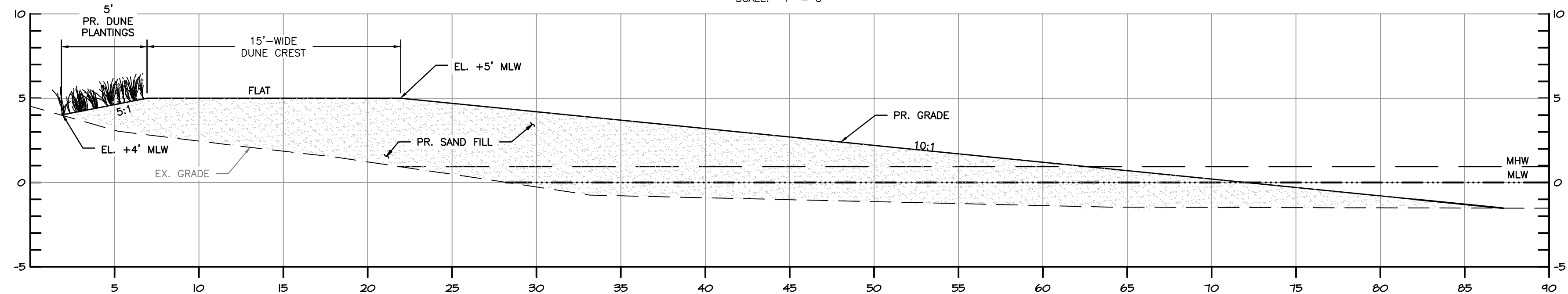
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SHEET NO. 7 OF 12

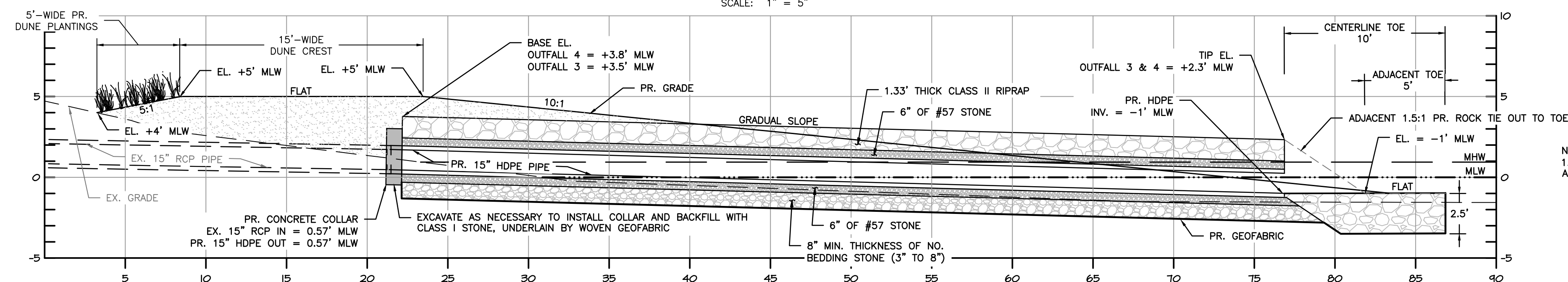




SECTION XS-1
SCALE: 1" = 5'

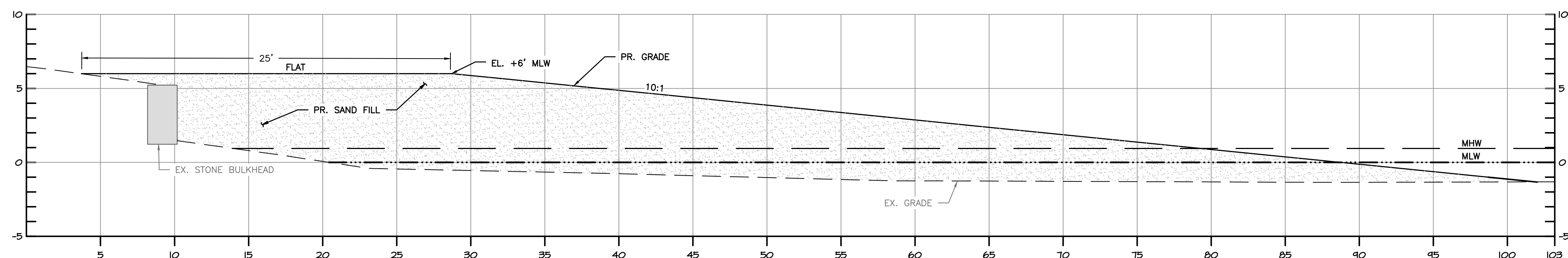


SECTION XS-2
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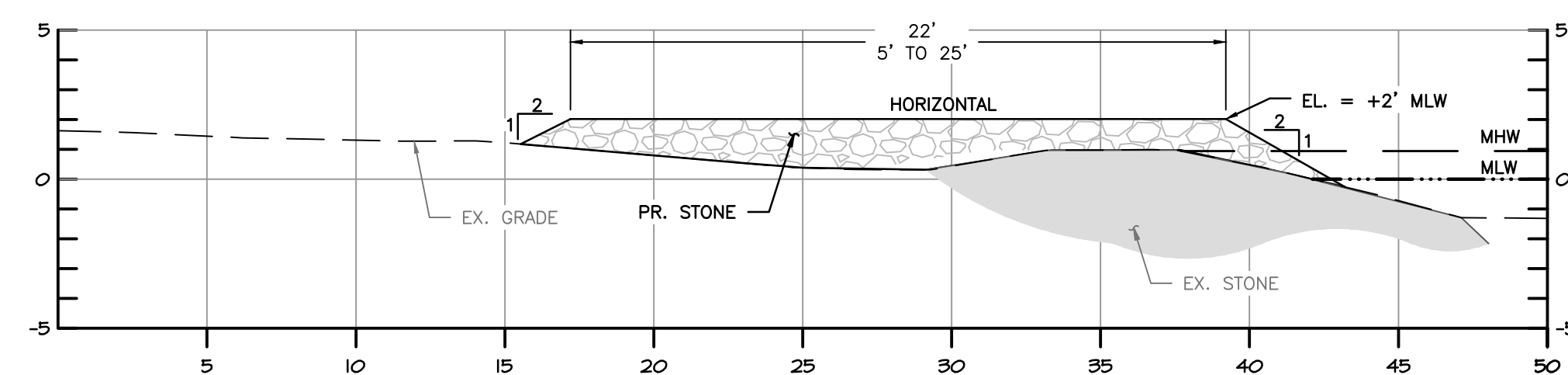


SECTION XS-3
SCALE: 1" = 5'

NOTES:
1. A 6" LAYER OF NO. 57 STONE WRAPPED IN GEOTEXTILE FABRIC WILL BE PLACED DIRECTLY AROUND THE PIPE TO PROVIDE A LAYER OF PROTECTION FROM THE ARMOR STONE



SECTION XS-4
SCALE: 1" = 5'



SECTION XS-5
SCALE: 1" = 5'

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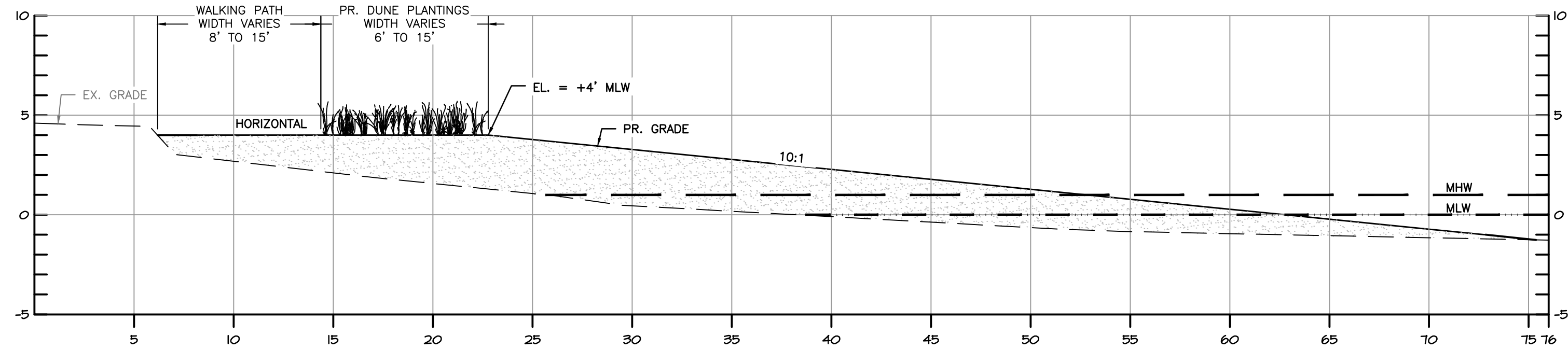
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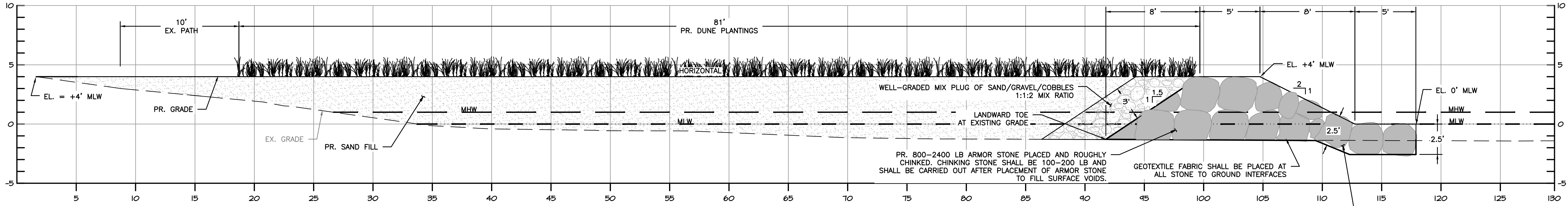
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				SHEET NO.		9 OF 12	

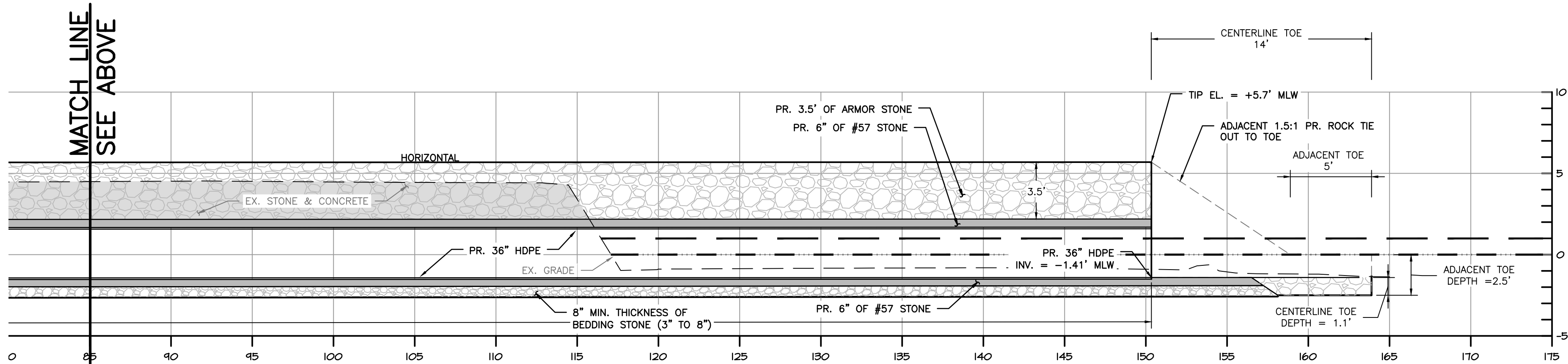
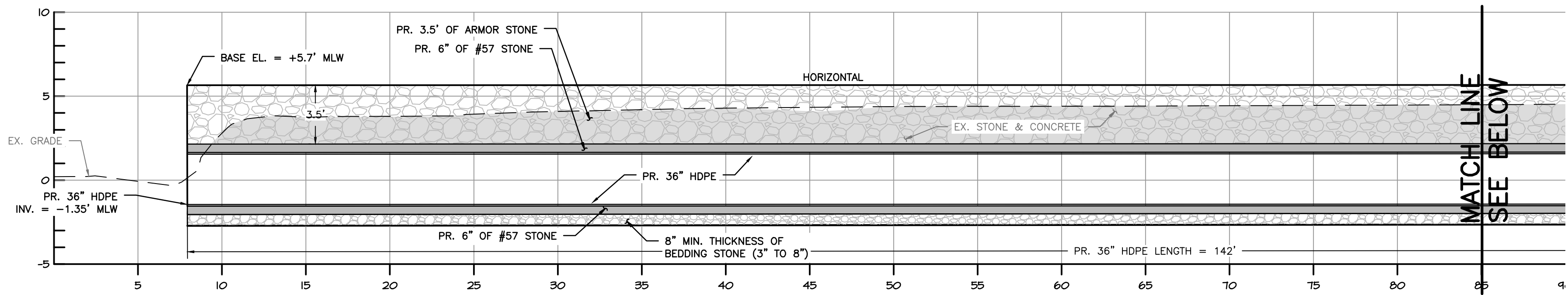
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SECTION XS-6
SCALE: 1" = 5'



SECTION XS-7
SCALE: 1" = 5'



SECTION XS-8
SCALE: 1" = 5'

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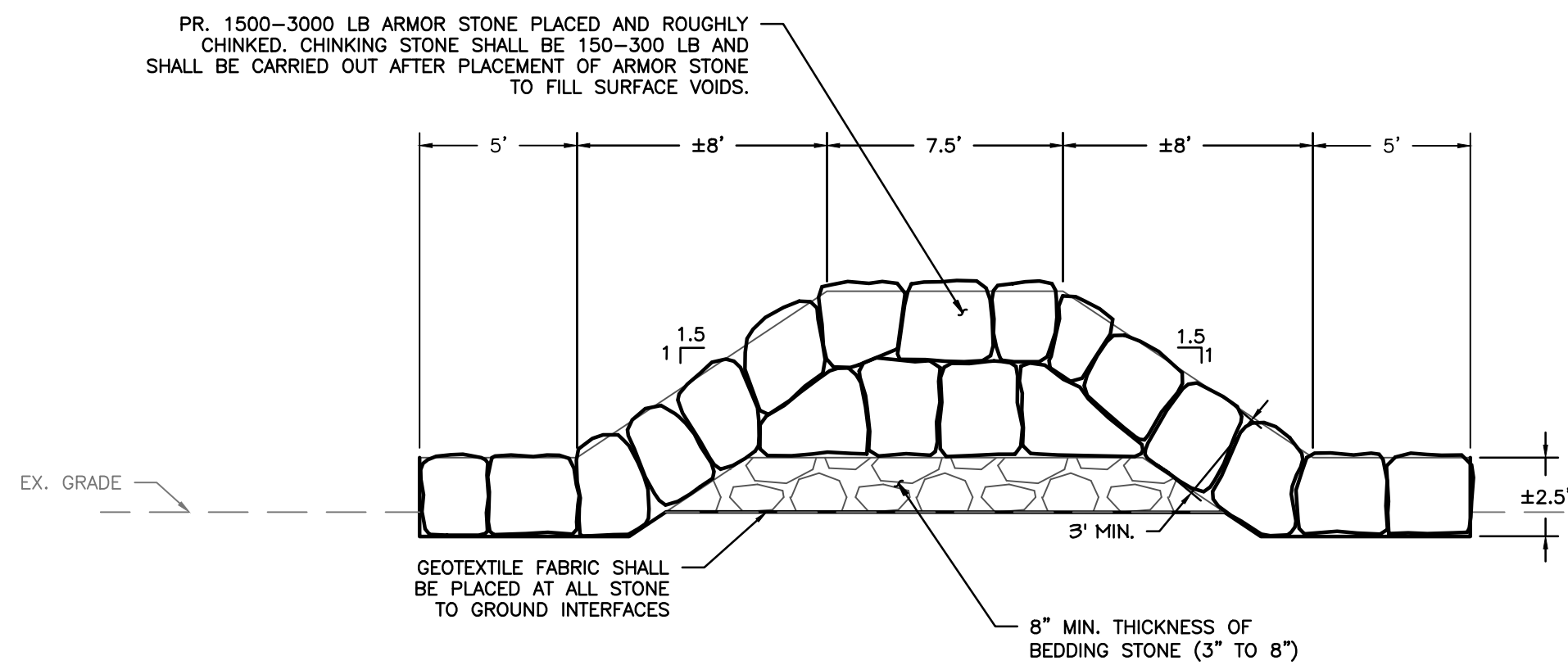
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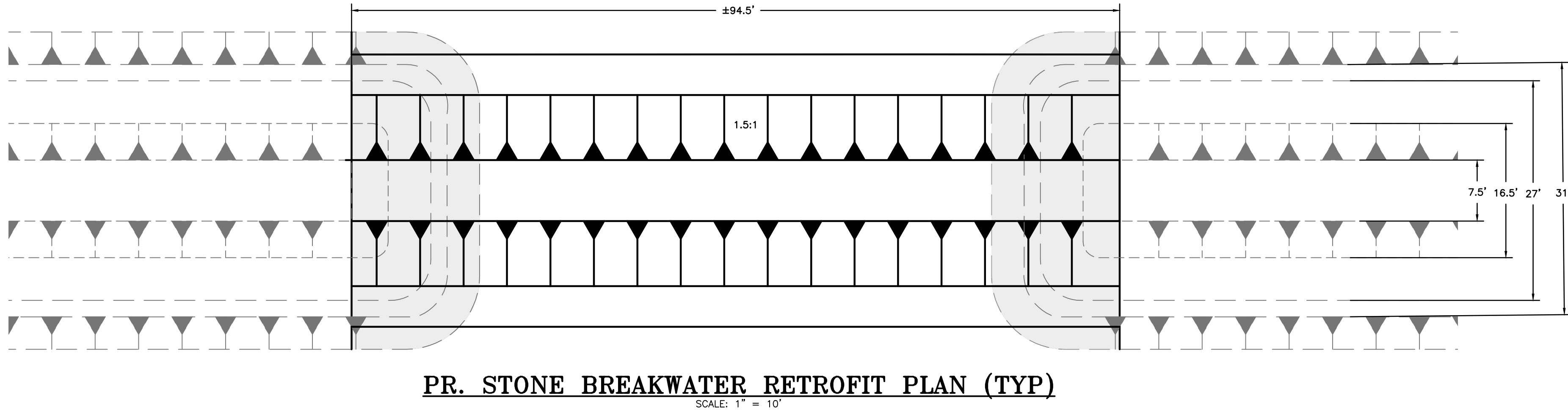
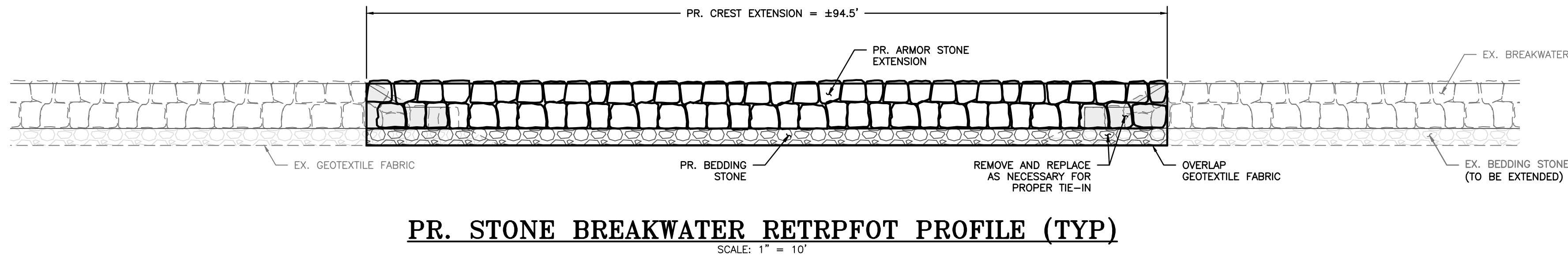
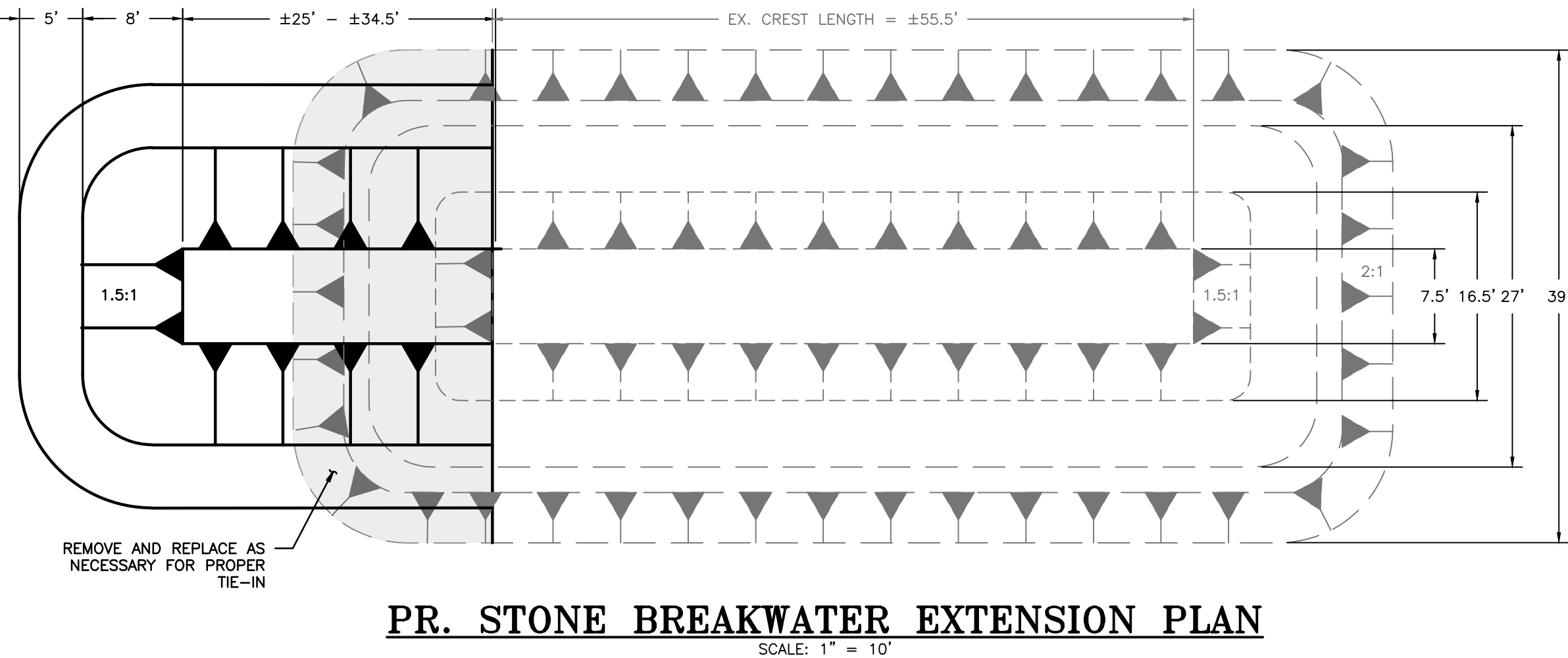
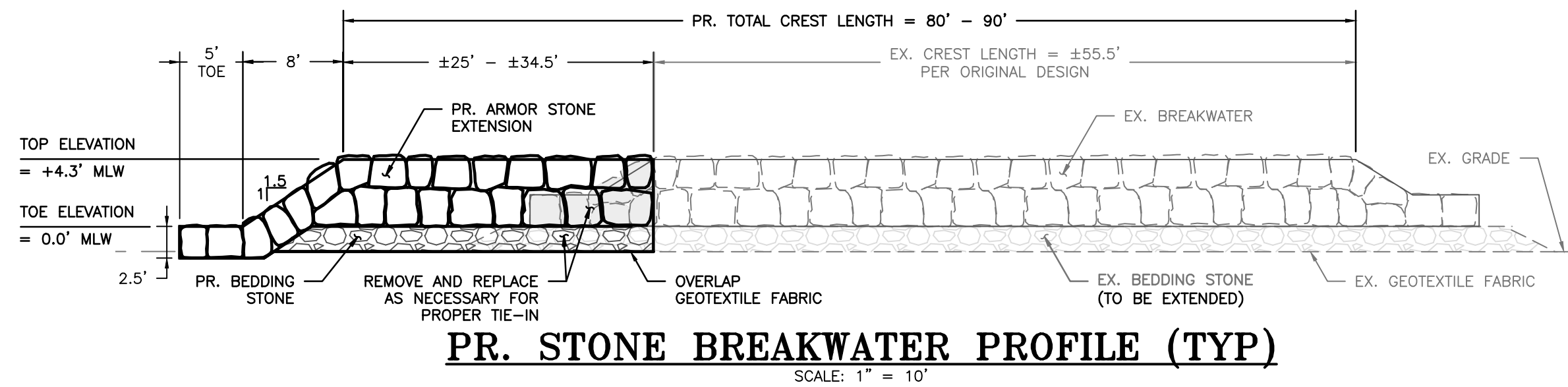
BEVERLY TRITON NATURE PARK SHORELINE PROTECTION CROSS SECTIONS

REVISIONS			DESIGNED BY: SB,JH		1/2/26
DATE	BY	DESCRIPTION	DRAWN BY: JH		1/2/26
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PR. STONE BREAKWATER RETROFIT & EXTENSION SECTION (TYP)
SCALE: 1" = 5'



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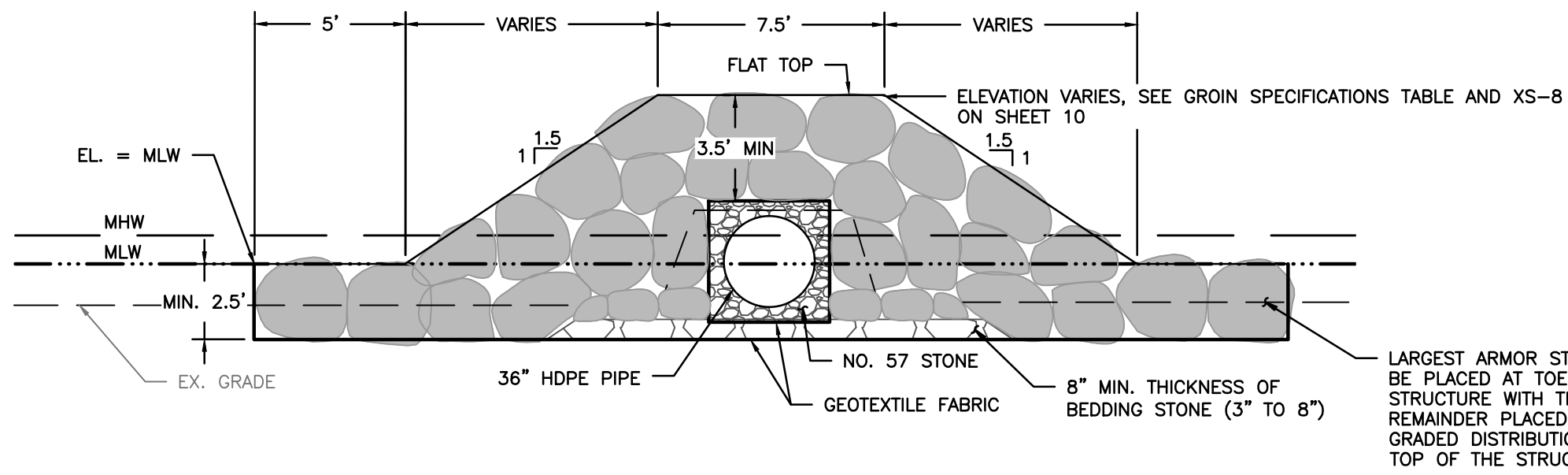
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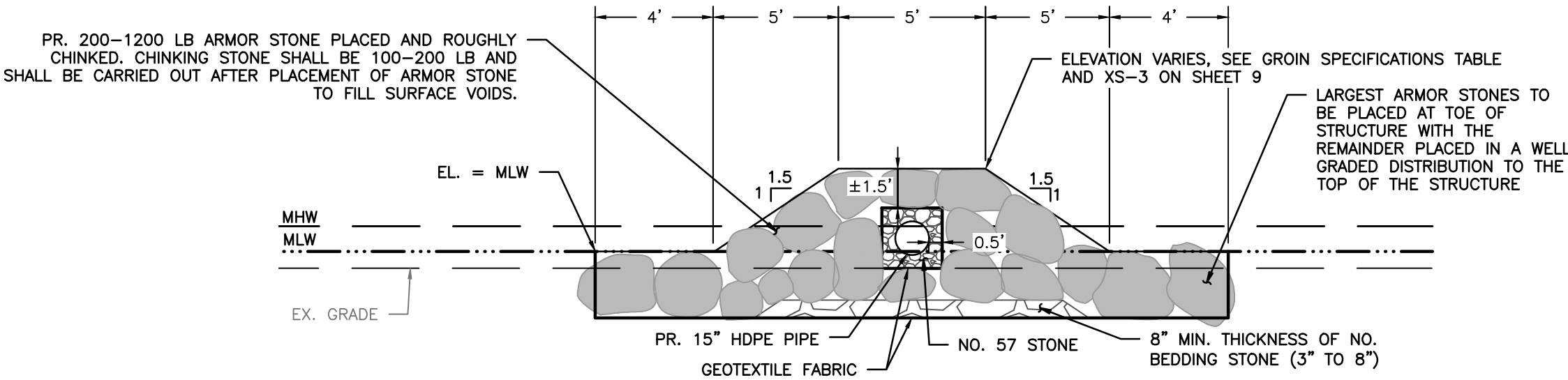
BEVERLY TRITON NATURE PARK SHORELINE PROTECTION BREAKWATER RETROFIT & EXTENSION DETAILS

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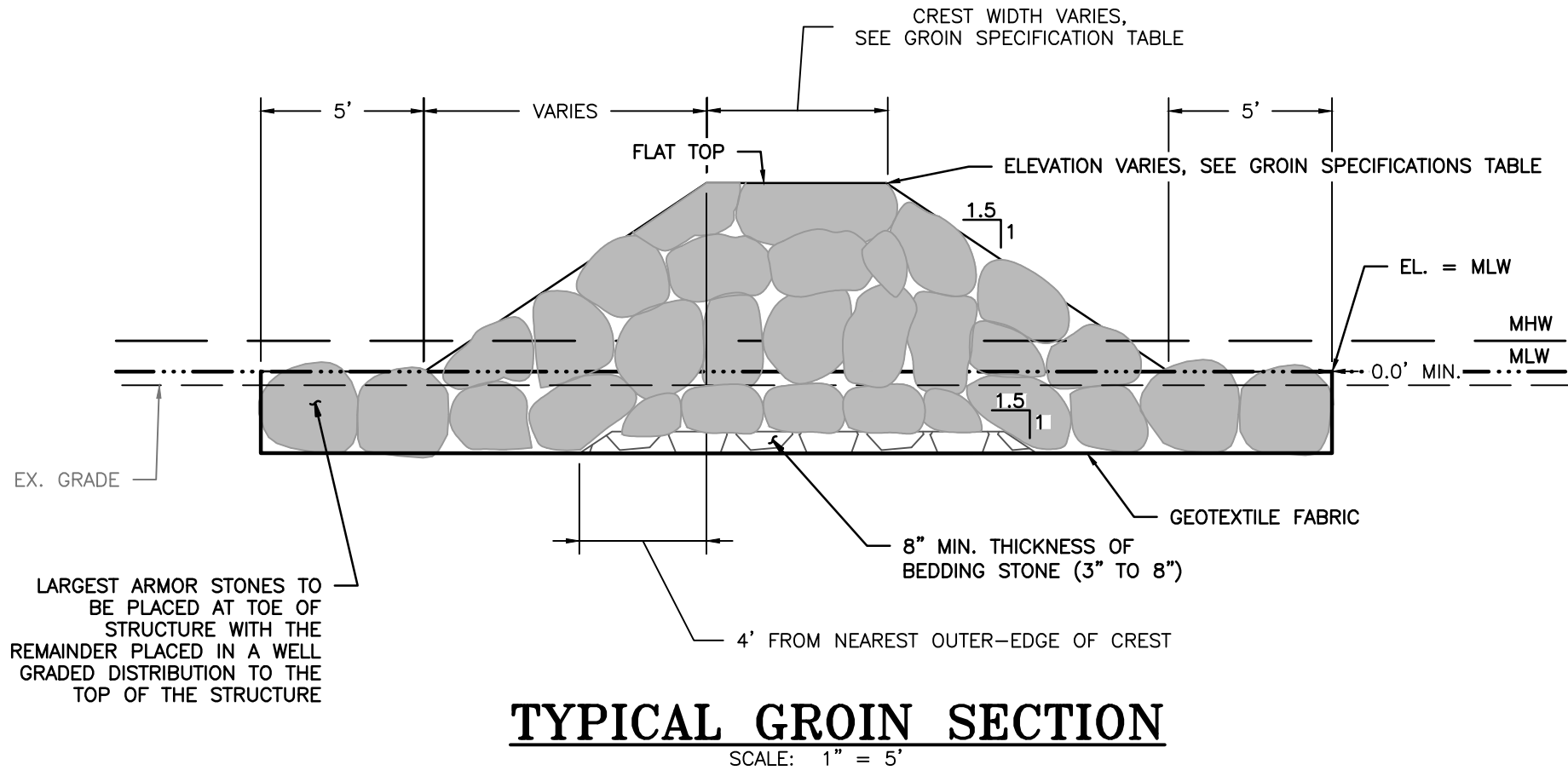
PR. Outfall 1 & 2 Typical Section
SCALE: 1" = 5'



PR. Outfall 3 & 4 Typical Section
SCALE: 1" = 5'

- NOTES:
1. A 6" LAYER OF NO. 57 STONE WRAPPED IN GEOTEXTILE FABRIC WILL BE PLACED DIRECTLY AROUND THE PIPE TO PROVIDE A LAYER OF PROTECTION FROM THE ARMOR STONE
 2. STONES SHALL BE PLACED WITH THEIR FLATTEST FACES ORIENTED UPWARD TO CREATE A STABLE AND EVEN CREST.
 3. GAPS BETWEEN THE STONES SHALL BE MINIMIZED THROUGH STRATEGIC PLACEMENT AND ROTATION WITH CHINKING OF SMALLER STONES AS NECESSARY.
 4. STONES SHALL BE SEATED FIRMLY INTO THE UNDERLYING LAYER TO PREVENT ROCKING OR MOVEMENT.

PR. GROIN SPECIFICATIONS TABLE			
STRUCTURE	BASE ELEV.	TIP ELEV.	CREST WIDTH
OUTFALL 1	5.7'	5.7'	7.5'
OUTFALL 2	5.4'	5.4'	7.5'
OUTFALL 3	3.5'	2.3'	5'
OUTFALL 4	3.8'	2.3'	5'
GROIN 6	5'	3'	5'



TYPICAL GROIN SECTION
SCALE: 1" = 5'

PROFESSIONAL CERTIFICATION

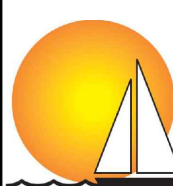
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BEVERLY TRITON NATURE PARK SHORELINE PROTECTION

GROIN & PIPE DETAILS

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