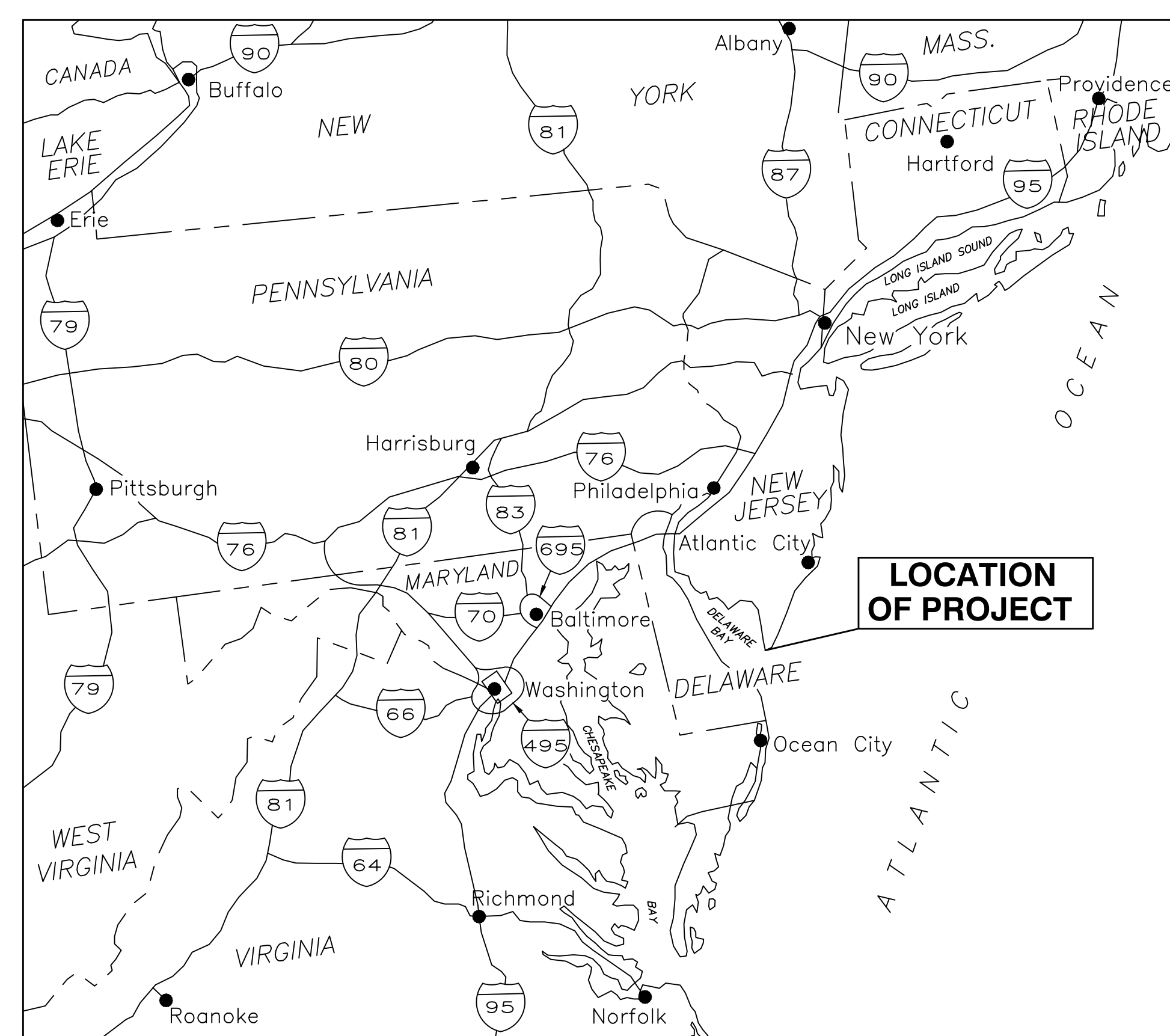


US Army Corps
of Engineers
PHILADELPHIA
DISTRICT

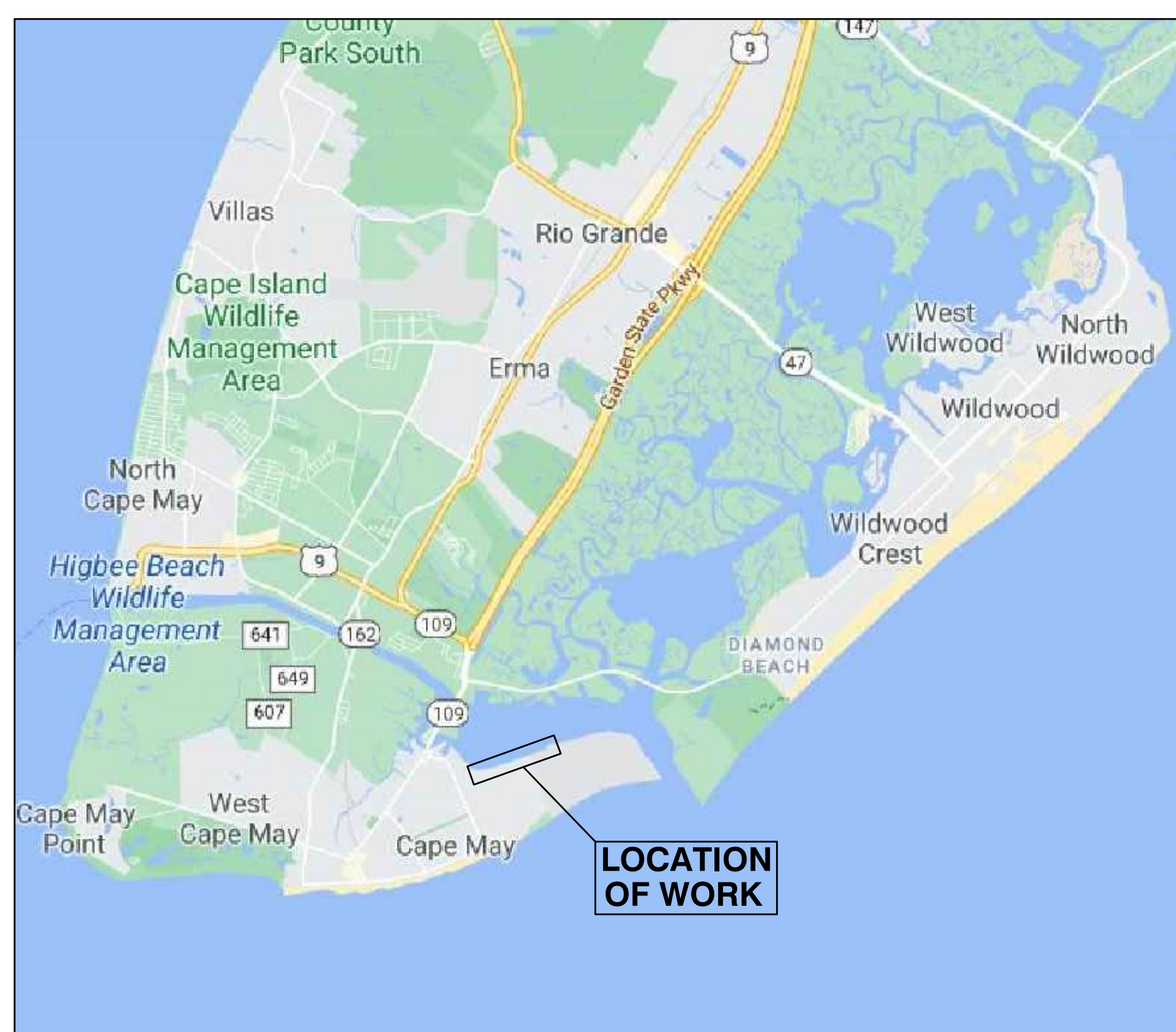
DELAWARE AVENUE REVETMENT

CAPE MAY, NEW JERSEY

CAPE MAY COUNTY, NEW JERSEY



N
VICINITY MAP
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N
LOCATION MAP
NTS

DRAWINGS INDEX	
SHEET NUMBER	SHEET TITLE
GENERAL	
G-001	COVER SHEET
CIVIL	
BB101	EXPLORATION LOCATION PLAN
C-001	GENERAL INFORMATION SHEET
C-002	GENERAL PLAN
CD101	EXISTING CONDITIONS & DEMOLITION PLAN
CD102	EXISTING CONDITIONS & DEMOLITION PLAN
CD103	EXISTING CONDITIONS & DEMOLITION PLAN
CD104	EXISTING CONDITIONS & DEMOLITION PLAN
C-101	PLAN - STA. 0+00 TO STA. 6+00
C-102	PLAN - STA. 6+00 TO STA. 13+27
C-103	PLAN - STA. 13+27 TO STA. 20+54
C-104	PLAN - STA. 20+54 TO STA. 26+77
C-201	PROFILE - NATURE CENTER RAMP
C-202	PROFILE - EXISTING OUTFALLS
C-203	PROFILE - OUTFALL WORK
C-301	TYPICAL SECTIONS
C-302	TYPICAL SECTIONS
C-303	CROSS SECTIONS - STA. 0+00 TO STA. 6+50
C-304	CROSS SECTIONS - STA. 7+00 TO STA. 12+50
C-305	CROSS SECTIONS - STA. 13+00 TO STA. 19+50
C-306	CROSS SECTIONS - STA. 20+00 TO STA. 24+00
C-501	DETAILS
CE001	EROSION AND SEDIMENT CONTROL NOTES
CE101	EROSION AND SEDIMENT CONTROL PLAN
CE102	EROSION AND SEDIMENT CONTROL PLAN
CE501	EROSION AND SEDIMENT CONTROL DETAILS
REFERENCE DRAWINGS	
R-101	EXISTING CONDITION SHEET 1 OF 2
R-102	EXISTING CONDITION SHEET 2 OF 2

SOLICITATION NO:TBD

CONTRACT NO:TBD

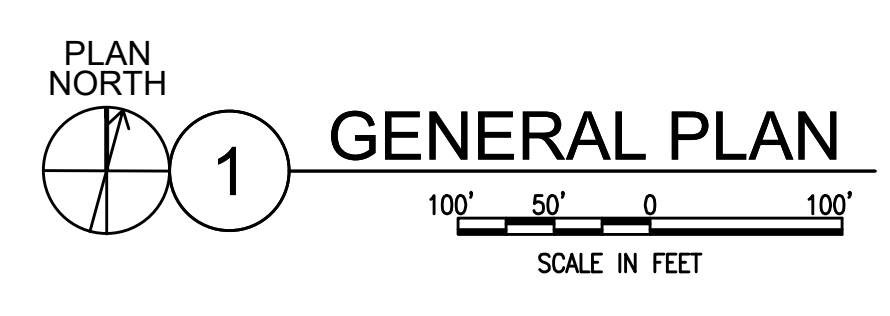
ISSUE/SUBMITTAL DATE:90% 01 JUNE 2023

THIS PROJECT WAS DESIGNED BY THE PHILADELPHIA DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

SUBMITTED:
ANDREW J. SCHWAIGER, P.E.
CHIEF, ENGINEERING BRANCH

APPROVED:
PETER M. TRANCHIK, P.E.
CHIEF, ENGINEERING AND CONSTRUCTION DIVISION

ISSUE/SUBMITTAL DATE: 01 JUNE 2023	REGISTRATION NUMBER: TBD	CONTRACT NUMBER: TBD	DATE
U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT			
CAPE MAY, NEW JERSEY CAPE MAY COUNTY, NEW JERSEY DELAWARE AVENUE REVETMENT			COVER SHEET
SHEET NUMBER			G-001



CWL COORDINATES		
POINT NUMBER	NORTHING	EASTING
1	40960.5	377647.6
2	40747.4	377723.4
3	40766.8	377783.5
4	41402.7	380053.3
5	41402.7	380053.3

NOTES:

- SEE SHEET C-001 FOR GENERAL NOTES.
- EXISTING CONDITIONS AND PROPOSED SITE WORK NOT SHOWN FOR CLARITY. SEE SHEETS CD101 THROUGH CD104 FOR EXISTING CONDITIONS AND DEMOLITION AND SHEETS C-101 THROUGH C-104 FOR PROPOSED SITE WORK.
- STAGING AREA A INCLUDES: THE GRAVEL LOT ADJACENT TO DELAWARE AVENUE, PORTION OF THE GRASSED AREA BETWEEN STATION 2+50 AND 7+00 AND THE EASTBOUND LANE OF DELAWARE AVENUE BETWEEN STATION 0+50 AND 22+05.
- THE PORTION OF THE STAGING AREA THAT IS ON THE DELAWARE AVENUE EAST BOUND LANE SHALL BE REPAIRED BY THE CONTRACTOR IF DAMAGES OCCUR DURING CONSTRUCTION. AT MINIMUM, THE CONTRACTOR SHALL MILL AND PAVE THE EXISTING SURFACE COURSE OF DAMAGED ROADWAY WITHIN THE STAGING AREA. SEE TYPICAL SECTION 5/C-302 FOR REFERENCE OF EXISTING PAVEMENT SECTION. THE CONTRACTOR SHALL ALSO REPLACE ANY SHOULDER OR ROAD CENTERLINE STRIPING WITHIN REPAIR AREAS.
- THE CONTRACTOR MAY UTILIZE THE PROJECT AREA BETWEEN THE DESIGNATED UPLAND STAGING AREA AND THE WATERWARD LIMIT OF THE CWL TO TEMPORARILY STORE PLANT AND EQUIPMENT. HOWEVER, THE CONTRACTOR SHALL BE AWARE OF THE SEMI-DIURNAL CHANGE IN TIDES AND SHALL MANAGE THE WORK ZONE ACCORDINGLY. NO STAGING SHALL OCCUR ON EXISTING STRUCTURES OR AREAS DESIGNATED AS WETLANDS TO REMAIN.
- STAGING AREA B SHALL SERVE AS THE LOCATION OF THE PROJECT TRAILER AND EMPLOYEE PARKING. THE CONTRACTOR SHALL ACCESS THE PORTION OF THE LOT TO BE USED FOR STAGING VIA THE ACCESS PATH SHOWN. SEE SHEET CE102 FOR ACCESS PATH DIMENSIONS. THE CONTRACTOR SHALL RESTORE THE LOT TO ITS PRE-EXISTING CONDITIONS UPON COMPLETION OF THE PROJECT.
- AT NO POINT SHALL THE CONTRACTOR ENTER THE USCG TRAINING CENTER. THE CONTRACTOR SHALL ALSO ENSURE THEIR OPERATIONS DO NOT BLOCK OR IMPEDE ACCESS TO THE FACILITY ENTRANCE FOR SECURITY PURPOSES.
- THE CONTRACTOR SHALL BE AWARE OF AN EXISTING OVERHEAD COMMUNICATION LINE THAT RUNS ALONG A PORTION OF THE HARBOR SIDE OF DELAWARE AVENUE AND ACROSS THE ROAD AT THE BROOKLYN AVENUE INTERSECTION. THE CONTRACTOR SHALL EVALUATE THE AVAILABLE CLEARANCE AND PLAN EQUIPMENT AND MATERIAL DELIVERIES ACCORDINGLY.
- THE CONTRACTOR MAY CONSTRUCT AN ACCESS TO THE EXISTING BEACH ANYWHERE WITHIN THE CWL FROM CAPE MAY COUNTY PROPERTY.

MARK	DATE	BY	DESCRIPTION

ISSUED/REVISION DATE: 06/10/2023	ISSUED/REVISION NUMBER: 1
DRAWN BY: JCS	DESIGNED BY: TEB
CHECKED BY: DAN	CONTRACT NUMBER: TBD
DATE: 06/10/2023	FILE NAME: 230610.0000001.dwg

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA
DISTRICT

DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
GENERAL PLAN

SHEET NUMBER
C-002



US Army Corps of Engineers
PHILADELPHIA DISTRICT

RE: CD102

DATE

BY

DESCRIPTION

MARK ACTION

ISSUE/REVISIONAL DATE

ISSUE/REVISIONAL DATE

ISSUE/REVISIONAL DATE

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ISSUE/REVISIONAL DATE

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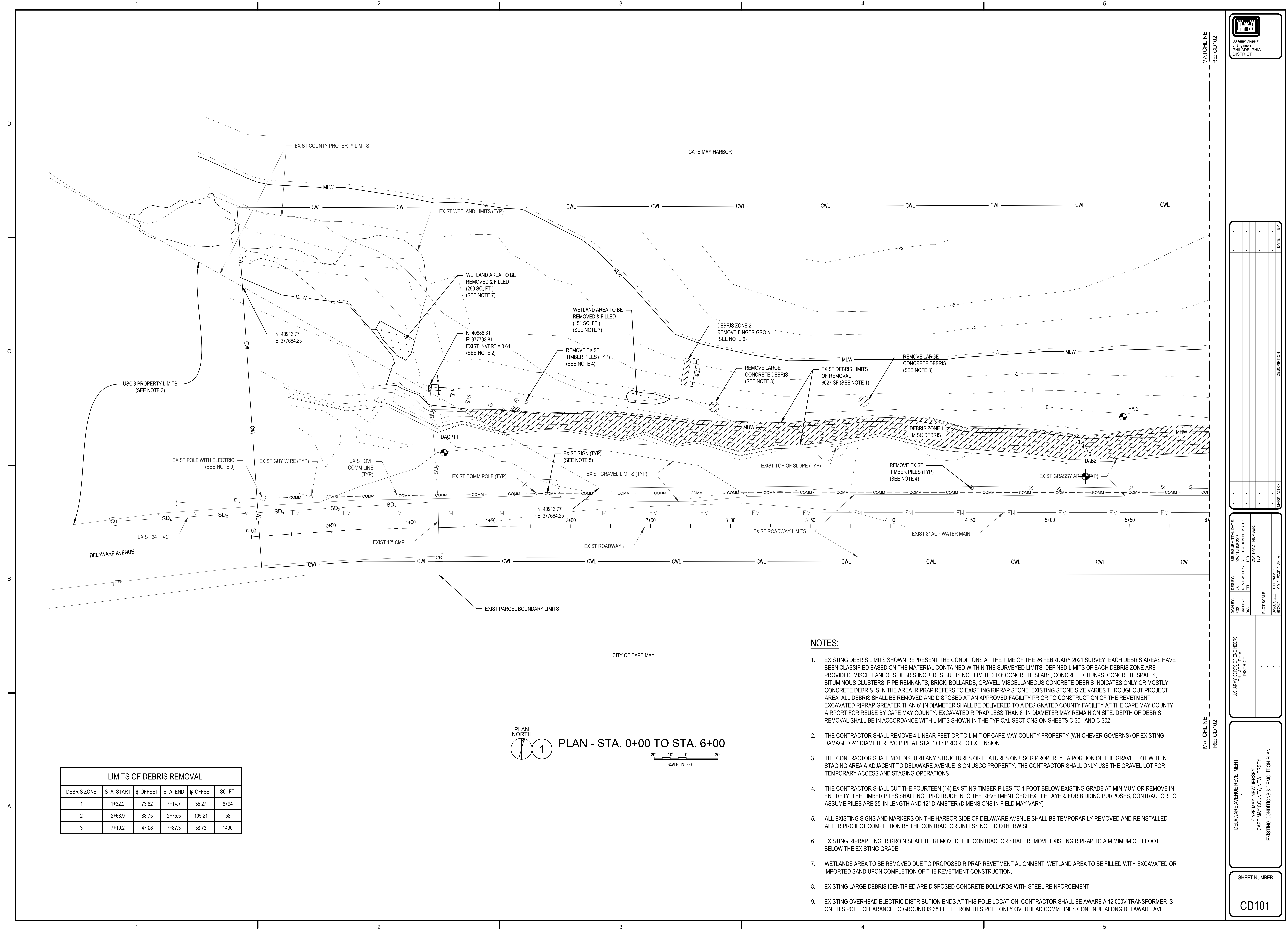
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LIMITS OF DEBRIS REMOVAL					
DEBRIS ZONE	STA. START	R OFFSET	STA. END	L OFFSET	SQ. FT.
1	1+32.2	73.82	7+14.7	35.27	8794
2	2+68.9	88.75	2+75.5	105.21	58
3	7+19.2	47.08	7+87.3	58.73	1490

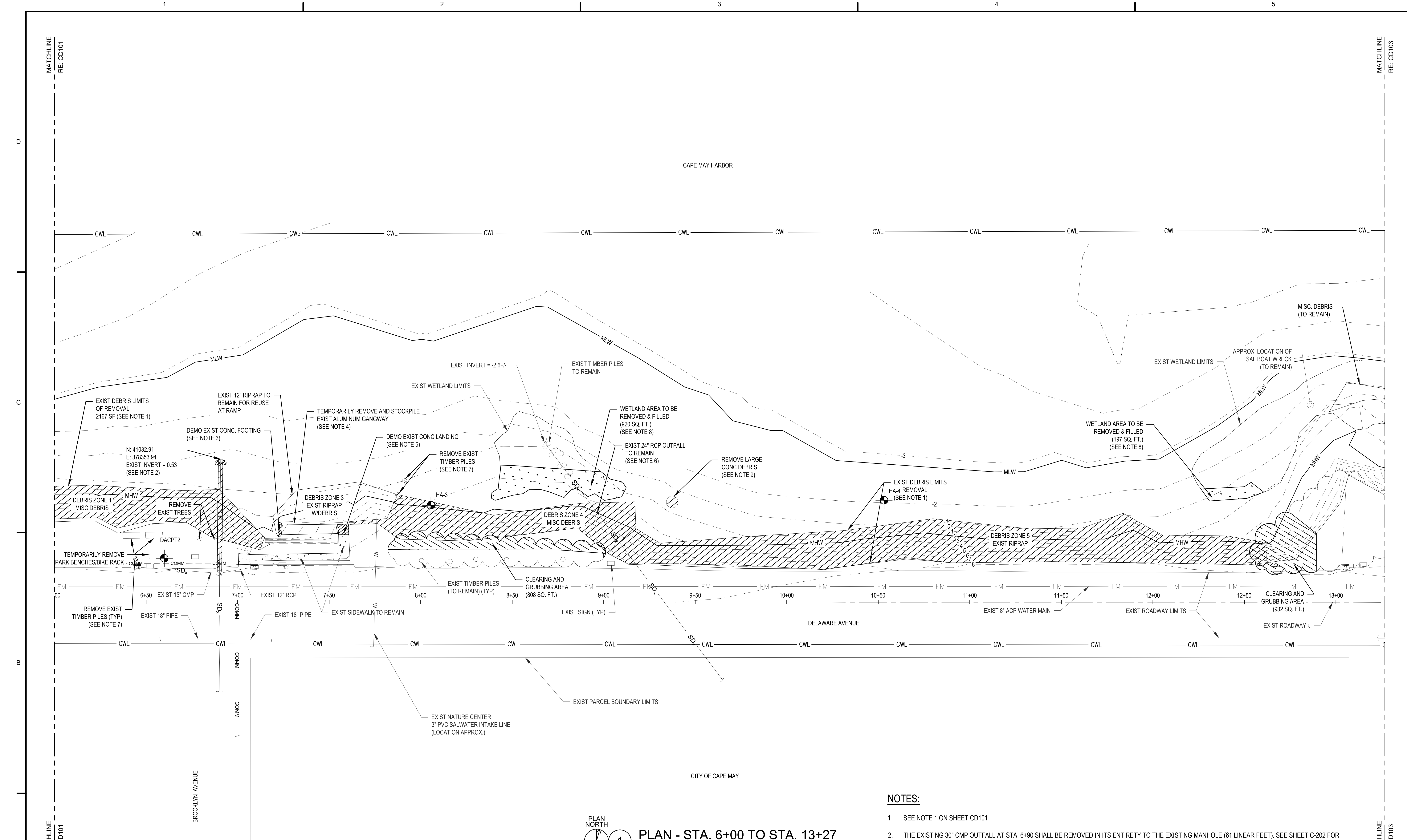
PLAN NORTH
1
PLAN - STA. 0+00 TO STA. 6+00
SCALE IN FEET

NOTES:

- EXISTING DEBRIS LIMITS SHOWN REPRESENT THE CONDITIONS AT THE TIME OF THE 26 FEBRUARY 2021 SURVEY. EACH DEBRIS AREAS HAVE BEEN CLASSIFIED BASED ON THE MATERIAL CONTAINED WITHIN THE SURVEYED LIMITS. DEFINED LIMITS OF EACH DEBRIS ZONE ARE PROVIDED. MISCELLANEOUS DEBRIS INCLUDES BUT IS NOT LIMITED TO: CONCRETE SLABS, CONCRETE CHUNKS, CONCRETE SPALLS, BITUMINOUS CLUSTERS, PIPE REMNANTS, BRICK, BOLLARDS, GRAVEL, MISCELLANEOUS CONCRETE DEBRIS INDICATES ONLY OR MOSTLY CONCRETE DEBRIS IS IN THE AREA. RIPRAP REFERS TO EXISTING RIPRAP STONE. EXISTING STONE SIZE VARIES THROUGHOUT PROJECT AREA. ALL DEBRIS SHALL BE REMOVED AND DISPOSED AT AN APPROVED FACILITY PRIOR TO CONSTRUCTION OF THE REVETMENT. EXCAVATED RIPRAP GREATER THAN 6" IN DIAMETER SHALL BE DELIVERED TO A DESIGNATED COUNTY FACILITY AT THE CAPE MAY COUNTY AIRPORT FOR REUSE BY CAPE MAY COUNTY. EXCAVATED RIPRAP LESS THAN 6" IN DIAMETER MAY REMAIN ON SITE. DEPTH OF DEBRIS REMOVAL SHALL BE IN ACCORDANCE WITH LIMITS SHOWN IN THE TYPICAL SECTIONS ON SHEETS C-301 AND C-302.
- THE CONTRACTOR SHALL REMOVE 4 LINEAR FEET OR TO LIMIT OF CAPE MAY COUNTY PROPERTY (WHICHEVER GOVERNS) OF EXISTING DAMAGED 24" DIAMETER PVC PIPE AT STA. 1+17 PRIOR TO EXTENSION.
- THE CONTRACTOR SHALL NOT DISTURB ANY STRUCTURES OR FEATURES ON USCG PROPERTY. A PORTION OF THE GRAVEL LOT WITHIN STAGING AREA ADJACENT TO DELAWARE AVENUE IS ON USCG PROPERTY. THE CONTRACTOR SHALL ONLY USE THE GRAVEL LOT FOR TEMPORARY ACCESS AND STAGING OPERATIONS.
- THE CONTRACTOR SHALL CUT THE FOURTEEN (14) EXISTING TIMBER PILES TO 1 FOOT BELOW EXISTING GRADE AT MINIMUM OR REMOVE IN ENTIRETY. THE TIMBER PILES SHALL NOT PROTRUDE INTO THE REVETMENT GEOTEXTILE LAYER. FOR BIDDING PURPOSES, CONTRACTOR TO ASSUME PILES ARE 25' IN LENGTH AND 12" DIAMETER (DIMENSIONS IN FIELD MAY VARY).
- ALL EXISTING SIGNS AND MARKERS ON THE HARBOR SIDE OF DELAWARE AVENUE SHALL BE TEMPORARILY REMOVED AND REINSTALLED AFTER PROJECT COMPLETION BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- EXISTING RIPRAP FINGER GROIN SHALL BE REMOVED. THE CONTRACTOR SHALL REMOVE EXISTING RIPRAP TO A MINIMUM OF 1 FOOT BELOW THE EXISTING GRADE.
- WETLANDS AREA TO BE REMOVED DUE TO PROPOSED RIPRAP REVETMENT ALIGNMENT. WETLAND AREA TO BE FILLED WITH EXCAVATED OR IMPORTED SAND UPON COMPLETION OF THE REVETMENT CONSTRUCTION.
- EXISTING LARGE DEBRIS IDENTIFIED ARE DISPOSED CONCRETE BOLLARDS WITH STEEL REINFORCEMENT.
- EXISTING OVERHEAD ELECTRIC DISTRIBUTION ENDS AT THIS POLE LOCATION. CONTRACTOR SHALL BE AWARE A 12,000V TRANSFORMER IS ON THIS POLE. CLEARANCE TO GROUND IS 38 FEET. FROM THIS POLE ONLY OVERHEAD COMM LINES CONTINUE ALONG DELAWARE AVE.

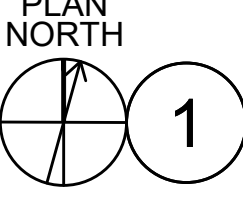
SHEET NUMBER

CD101

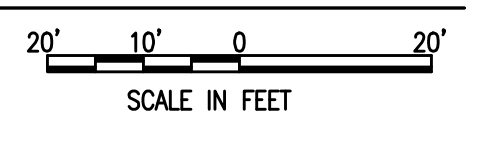


LIMITS OF DEBRIS REMOVAL

DEBRIS ZONE	STA. START	± OFFSET	STA. END	± OFFSET	SQ. FT.
1	1+32.2	73.82	7+14.7	35.27	8794
3	7+19.2	47.08	7+87.3	58.73	1490
4	7+60.6	42.67	9+17.6	41.41	2394
5	9+02.4	26.67	12+68.5	19.38	6430



1 PLAN - STA. 6+00 TO STA. 13+27



NOTES:

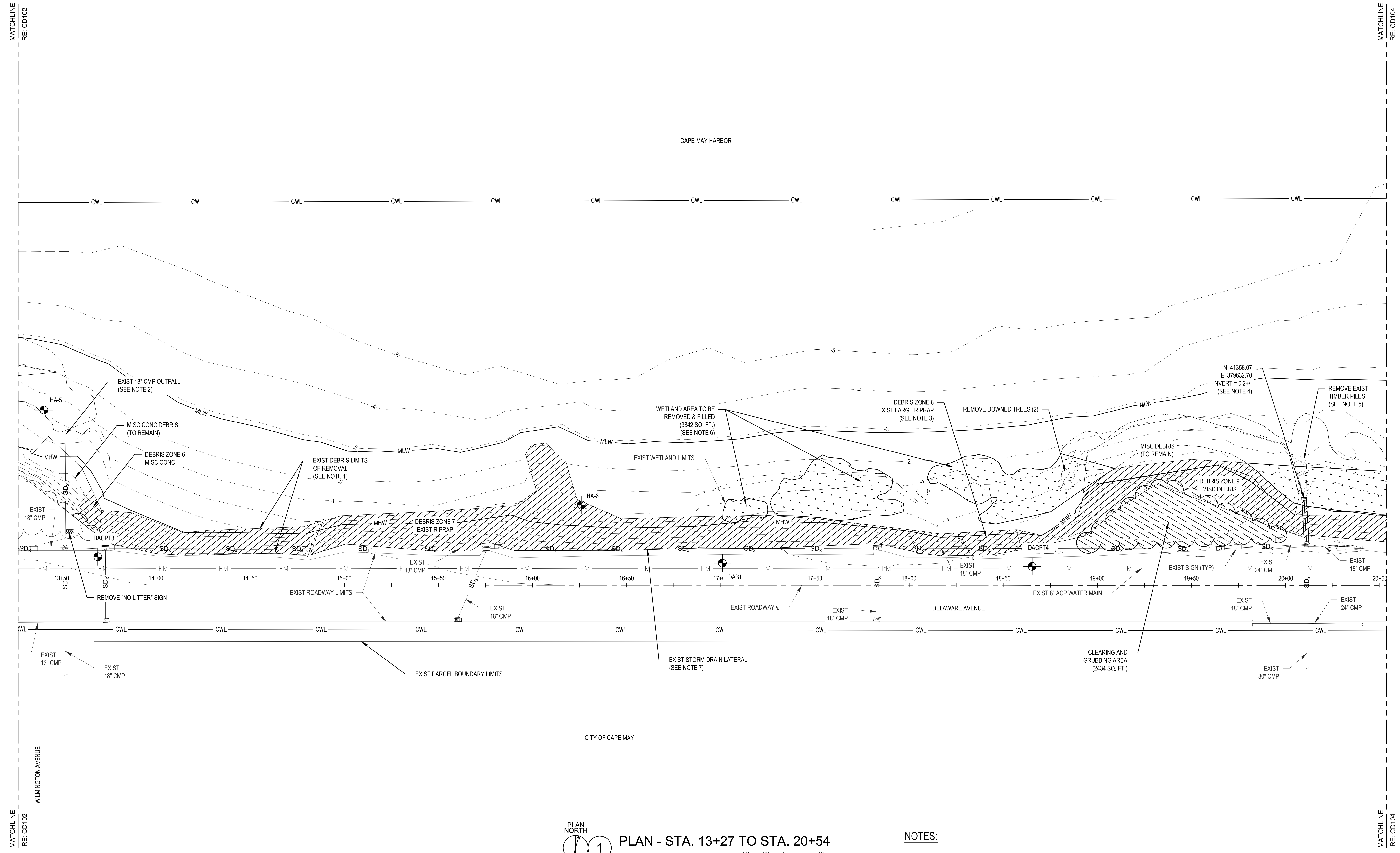
1. SEE NOTE 1 ON SHEET CD101.
2. THE EXISTING 30" CMP OUTFALL AT STA. 6+90 SHALL BE REMOVED IN ITS ENTIRETY TO THE EXISTING MANHOLE (61 LINEAR FEET). SEE SHEET C-202 FOR EXISTING LAYOUT.
3. THE CONTRACTOR SHALL COMPLETELY REMOVE EXISTING CONCRETE FOOTING (18 SQ. FT.) AND BACKFILL. CONCRETE FOOTING LIMITS SHOWN ARE APPROXIMATE.
4. THE CONTRACTOR SHALL TEMPORARILY REMOVE AND STOCKPILE THE 30 LINEAR FOOT ALUMINUM GANGWAY. IT WILL BE REUSED IN THE NEW RAMP CONFIGURATION.
5. THE CONTRACTOR SHALL REMOVE THE EXISTING CONCRETE LANDING (27 SQ. FT.) THAT THE ALUMINUM GANGWAY CONNECTS TO. REMOVE CONCRETE TO EXISTING SIDEWALK/RAMP JOINT. THE CONTRACTOR SHALL DISPOSE OF EXISTING RAILS ON LANDING UNLESS REUSE IS POSSIBLE.
6. THE EXISTING 24" RCP OUTFALL SHALL REMAIN IN PLACE. THE CONTRACTOR IS TO ENSURE THE OUTFALL IS MAINTAINED CLEAR THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL NOT TRACK EQUIPMENT DIRECTLY OVER THE PIPE DUE TO ITS CURRENT CONDITION. SEE DETAIL 7/C-501 FOR OUTFALL CROSSING REQUIREMENTS.
7. THE CONTRACTOR SHALL CUT THE THREE (3) EXISTING TIMBER PILES TO 1 FOOT BELOW THE EXISTING GRADE AT MINIMUM OR REMOVE IN ENTIRETY. THE TIMBER PILES SHALL NOT PROTRUDE INTO THE REVETMENT GEOTEXTILE LAYER. FOR BIDDING PURPOSES, CONTRACTOR TO ASSUME PILES ARE 25' IN LENGTH AND 12" DIAMETER (DIMENSIONS IN FIELD MAY VARY).
8. WETLANDS AREA TO BE REMOVED DUE TO PROPOSED RIPRAP REVETMENT ALIGNMENT. WETLAND AREA SHALL BE FILLED WITH EXCAVATED OR IMPORTED SAND UPON COMPLETION OF THE REVETMENT CONSTRUCTION.
9. EXISTING LARGE DEBRIS IDENTIFIED IS A CONCRETE SLAB.



ISSUES/DRAWING DATE: 26/01/2023	DESIGN BY: JKW	ISSUES/DRAWING DATE: 26/01/2023
APPROVED BY: DAN	DESIGNED BY: DAN	ISSUES/DRAWING DATE: 26/01/2023
	CHECKED BY: DAN	ISSUES/DRAWING DATE: 26/01/2023
	PLLOT SCALE: 1"=10'	ISSUES/DRAWING DATE: 26/01/2023
	DWG. SIZE: A	ISSUES/DRAWING DATE: 26/01/2023

DELAWARE AVENUE REVETMENT
 CAPE MAY, NEW JERSEY
 CAPE MAY COUNTY, NEW JERSEY
 EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER
 CD102



LIMITS OF DEBRIS REMOVAL					
DEBRIS ZONE	STA. START	q OFFSET	STA. END	q OFFSET	SQ. FT.
6	13+58.2	39.89	13+71.3	39.71	169
7	13+69.6	26.04	18+04.6	17.09	7983
8	17+59.3	29.71	18+59.6	18.88	677
9	18+56.9	29.64	20+31.4	24.97	3306
10	20+31.4	24.97	22+03.7	25.97	1928

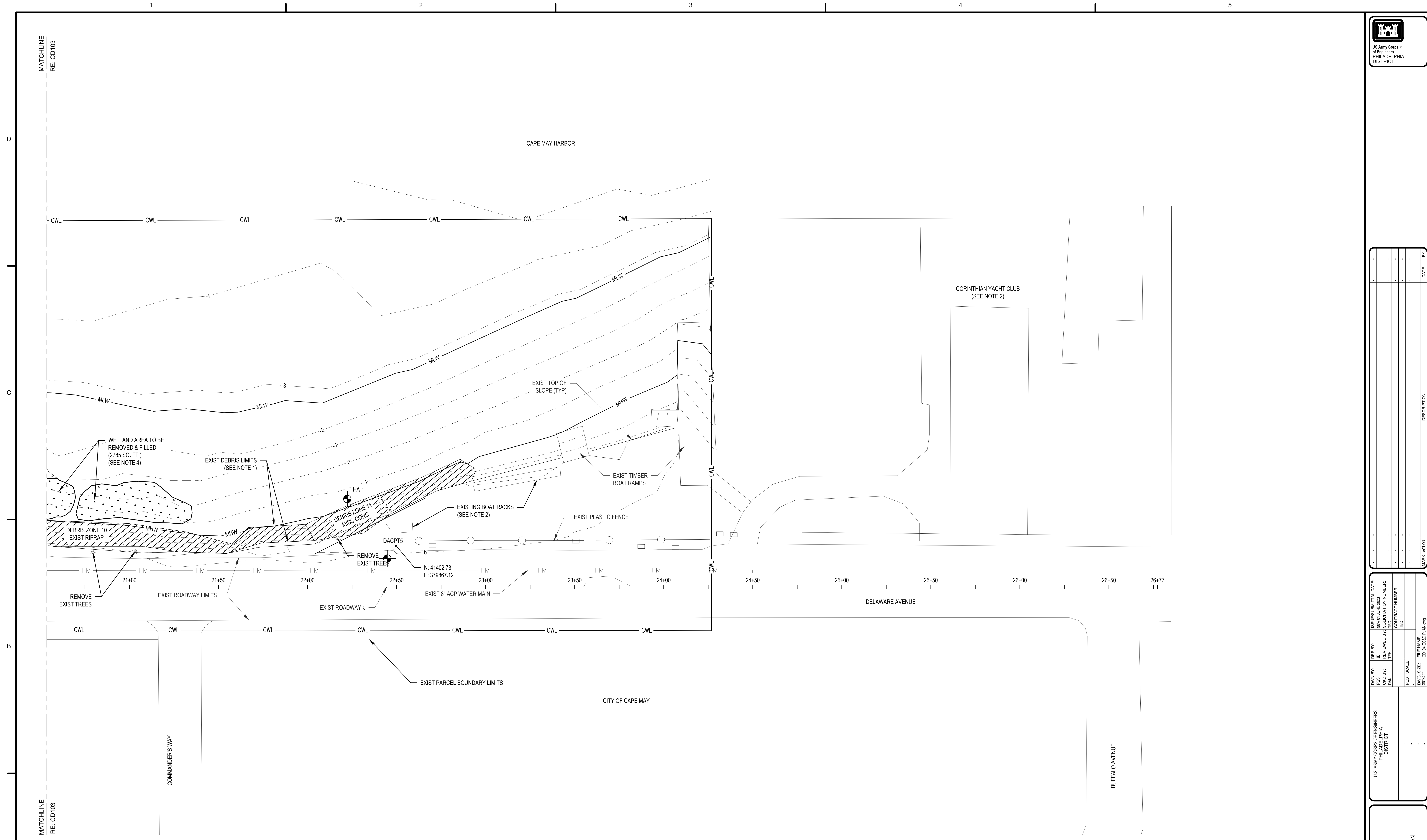
PLAN NORTH
1 PLAN - STA. 13+27 TO STA. 20+54
 SCALE IN FEET

- NOTES:**
1. SEE NOTE 1 ON SHEET CD101.
 2. THE EXISTING 18" CMP OUTFALL IS TO REMAIN AS NO WORK IS TO BE COMPLETED IN THIS AREA. EXISTING INVERT MAY BE BURIED.
 3. THE CONTRACTOR SHALL STOCKPILE LARGE RIPRAP EXCAVATED FROM DEBRIS ZONE 8 ON SITE FOR INSPECTION PRIOR TO REMOVAL AS IT MAY BE DEEMED SUITABLE TO REINCORPORATE INTO THE PROPOSED STRUCTURE. THE EXISTING LARGE RIPRAP AREA IS APPROXIMATELY 680 SF.
 4. THE CONTRACTOR SHALL REMOVE THE EXISTING 30" CMP OUTFALL PIPE AT STA. 20+11 (23 LINEAR FEET) AND CRIBBING TO THE EXISTING MANHOLE.
 5. THE CONTRACTOR SHALL CUT THE EIGHT (8) EXISTING TIMBER PILES TO 1 FOOT BELOW EXISTING GRADE AT MINIMUM OR REMOVE IN ENTIRETY. THE TIMBER PILES SHALL NOT PROTRUDE INTO THE REVETMENT GEOTEXTILE LAYER. FOR BIDDING PURPOSES, CONTRACTOR TO ASSUME PILES ARE 25' IN LENGTH AND 12" DIAMETER (DIMENSIONS IN FIELD MAY VARY).
 6. WETLANDS AREA TO BE REMOVED DUE TO PROPOSED REVETMENT ALIGNMENT. WETLAND AREA TO BE FILLED WITH EXCAVATED OR IMPORTED SAND UPON COMPLETION OF THE REVETMENT CONSTRUCTION.
 7. APPROXIMATE LOCATION OF EXISTING 18"-24" CMP STORM DRAIN LATERAL PARALLEL TO DELAWARE AVENUE SHOWN. EXISTING PIPES ARE TO REMAIN. CONTRACTOR SHALL NOT DISTURB DURING DEBRIS REMOVAL. PIPE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.

ISSUANCE INFORMATION		DATE	
ISSUED BY	ISSUED DATE	DATE	BY
DESIGNED BY	DESIGNED DATE		
CHECKED BY	CHECKED DATE		
DRAWN BY	DRAWN DATE		
FILE NAME	CONTRACT NUMBER		
PROJECT NUMBER	CONTRACT NUMBER		
DESCRIPTION			

DELAWARE AVENUE REVETMENT CAPE MAY, NEW JERSEY CAPE MAY COUNTY, NEW JERSEY EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER
CD103



LIMITS OF DEBRIS REMOVAL					
DEBRIS ZONE	STA. START	ℓ OFFSET	STA. END	ℓ OFFSET	SQ. FT.
10	20+31.4	24.97	22+03.7	25.97	1928
11	21+98.9	35.14	22+94.8	45.78	1274

PLAN NORTH
1 PLAN - STA. 20+54 TO STA. 26+77
SCALE IN FEET
20' 10' 0 20'

NOTES:

- SEE NOTE 1 ON SHEET CD101.
- EXISTING BOAT RACKS SHALL BE TEMPORARILY REMOVED BY THE CONTRACTOR TO CONSTRUCT REVETMENT. CONTRACTOR SHALL SURVEY RACK POST LOCATIONS AND RETURN TO SURVEYED LOCATION UPON COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH COR AND CORINTHIAN YACHT CLUB PRIOR TO REMOVAL TO DETERMINE APPROPRIATE STOCKPILE LOCATION.
- THE CONTRACTOR SHALL NOT TRAVERSE UPLAND YACHT CLUB PROPERTY UPLAND (BEGINNING AT THE FENCE LINE) WITH EQUIPMENT AND MATERIAL UNLESS GIVEN WRITTEN PERMISSION FROM PROPERTY OWNERS. CONTRACTOR SHALL COORDINATE WITH COR AND CORINTHIAN YACHT CLUB PRIOR TO ACCESSING PROPERTY. YACHT CLUB PROPERTY UPLAND OF THE REVETMENT LIMITS SHALL BE RETURNED TO ITS PRE-EXISTING CONDITION BY THE CONTRACTOR.
- WETLANDS AREA TO BE REMOVED DUE TO PROPOSED REVETMENT ALIGNMENT. WETLAND AREA TO BE FILLED WITH EXCAVATED OR IMPORTED SAND UPON COMPLETION OF THE REVETMENT CONSTRUCTION.

DATE	BY	DESCRIPTION

ISSUED/REVISIONAL DATE: 30.06.2023	ISSUED BY: JES	ISSUED FOR: JES	ISSUED BY: JES	ISSUED FOR: JES	ISSUED BY: JES	ISSUED FOR: JES	ISSUED BY: JES	ISSUED FOR: JES
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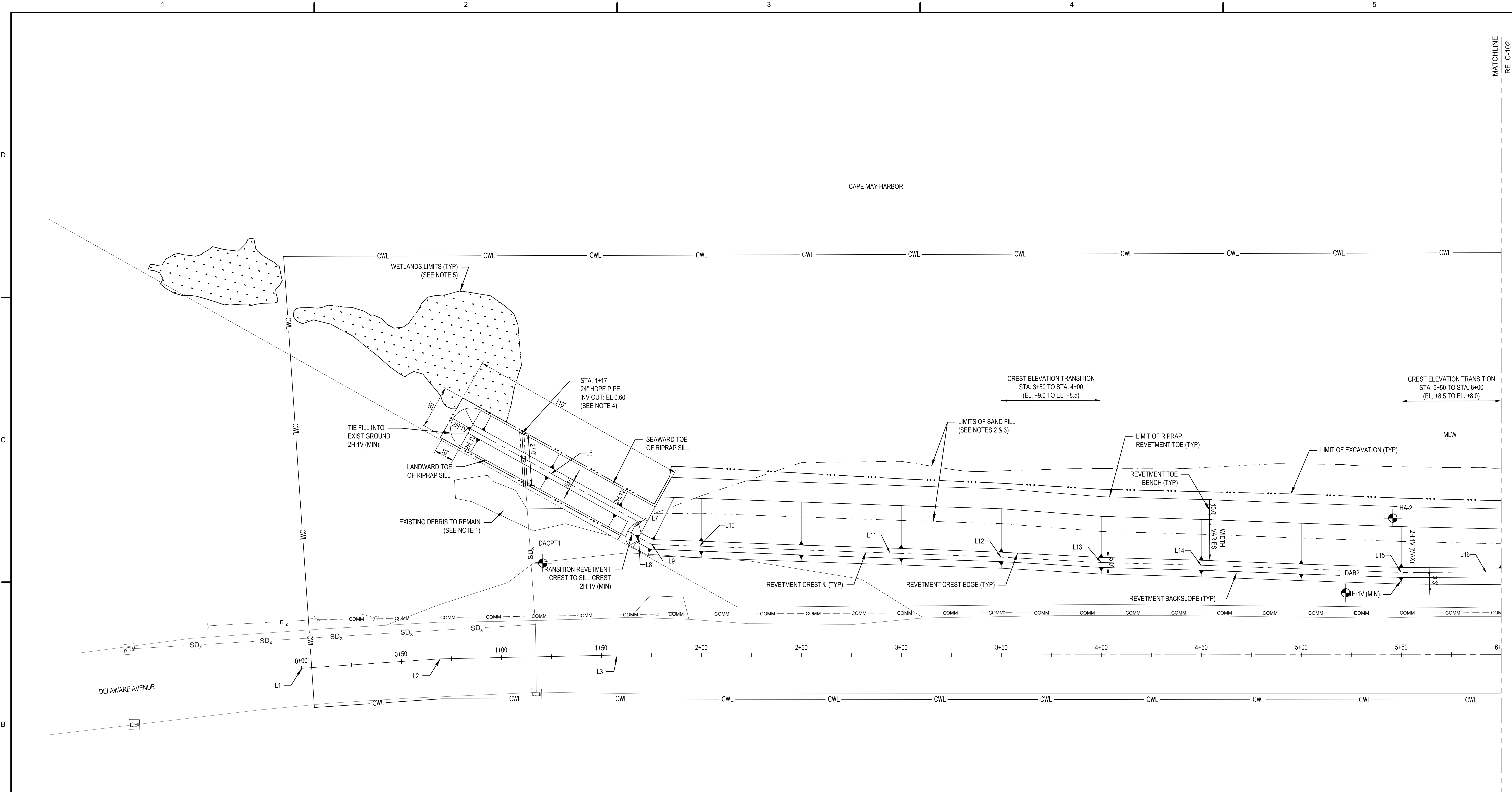
DELAWARE AVENUE REVETMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
EXISTING CONDITIONS & DEMOLITION PLAN

NO.	DATE	BY	DESCRIPTION

ISSUED/REVISIONAL DATE: 30/06/2023	DESIGNED BY: TJD	ISSUED BY: TJD	FILE NAME: C:\PROJECTS\10401\10401.dwg
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DELaware AVENue REvEMENT
CAPE MAy, NEw JERSEY
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PLAN - STA. 0+00 TO STA. 6+00

SHEET NUMBER
C-101

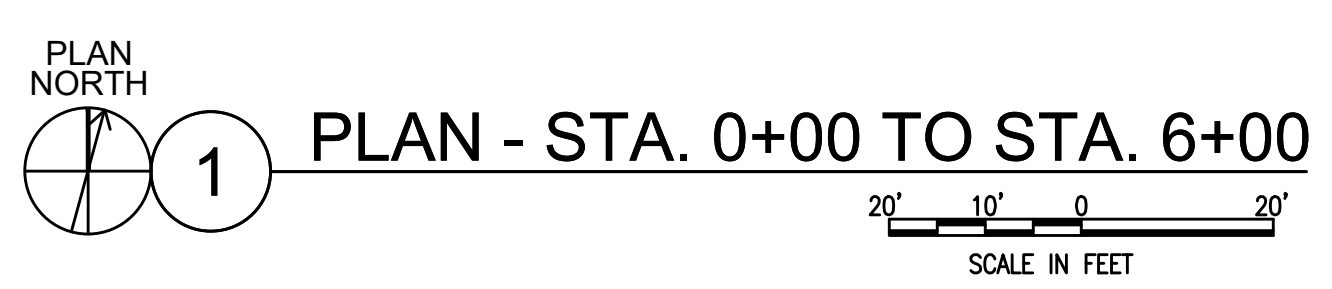


SURVEY AND CONSTRUCTION BASELINE GEOMETRY LEGEND

NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L1	69.43	40764.58	377712.00	N70° 25' 21.03"E	40767.84	377777.42
L2	88.51	40787.84	377777.42	N73° 07' 02.42"E	40813.55	377862.11
L3	518.99	40813.55	377862.11	N74° 18' 04.40"E	40953.98	378361.74

REvEMENT CENTERLINE GEOMETRY LEGEND

NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L6	95.45	40902.69	377760.92	S76° 39' 29.15"E	40880.66	377853.79
L7	6.62	40880.66	377853.79	S12° 33' 40.43"W	40874.20	377852.35
L8	4.32	40874.20	377852.35	S75° 43' 17.74"E	40873.13	377856.53
L9	7.61	40873.13	377856.53	S77° 18' 31.03"E	40871.46	377863.96
L10	24.54	40871.46	377863.96	N76° 18' 56.81"E	40877.26	377887.80
L11	100.07	40877.26	377887.80	N76° 22' 41.92"E	40900.83	377985.05
L12	50.01	40900.83	377985.05	N76° 28' 47.32"E	40912.52	378033.68
L13	50.08	40912.52	378033.68	N77° 20' 55.65"E	40923.49	378082.54
L14	50.04	40923.49	378082.54	N75° 55' 50.93"E	40935.65	378131.08
L15	100.10	40935.65	378131.08	N76° 23' 27.70"E	40958.21	378228.37
L16	50.05	40958.21	378228.37	N74° 43' 05.55"E	40972.40	378276.65

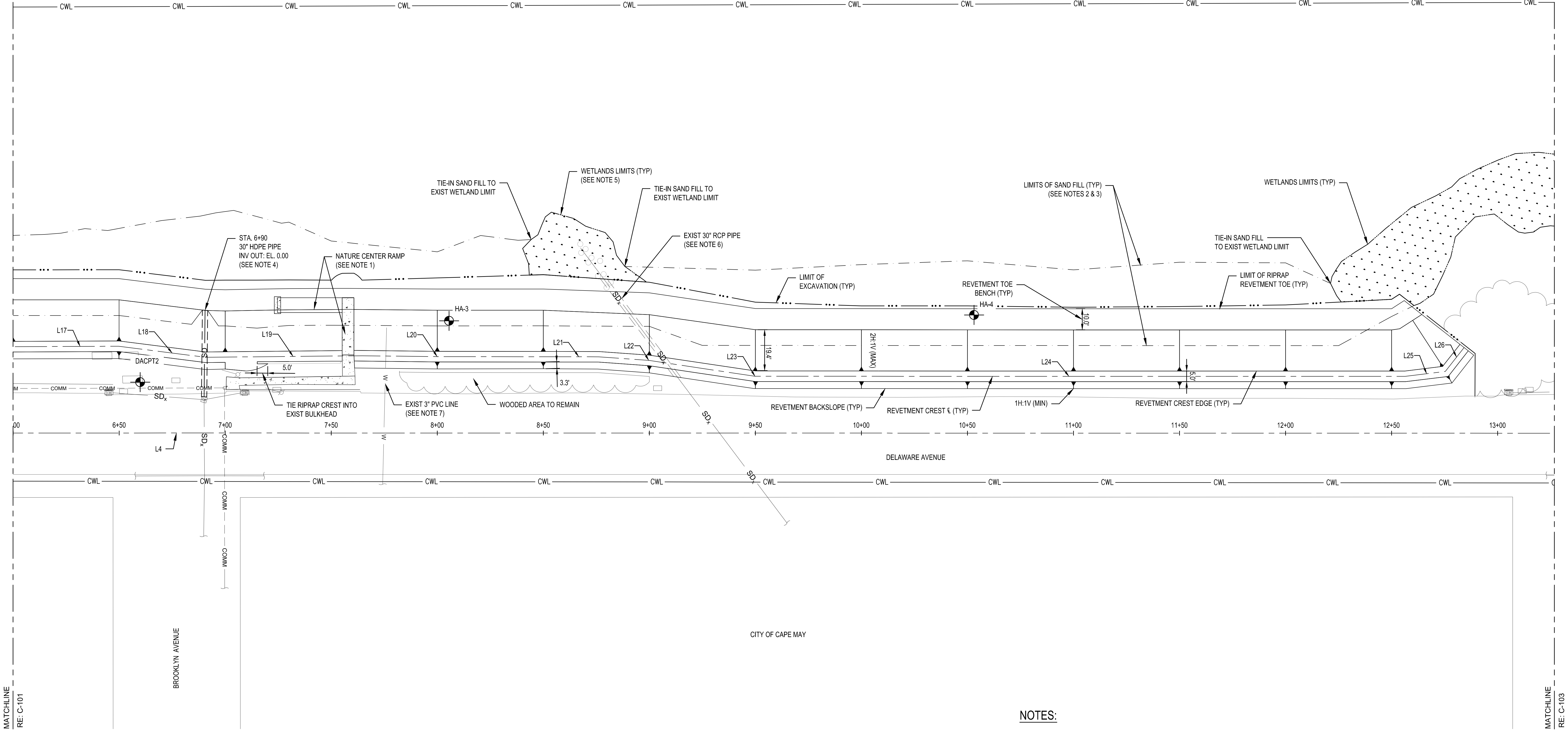


- NOTES:**
- EXISTING DEBRIS LOCATED ON USCG PROPERTY SHALL REMAIN. NO EXCAVATION IS TO OCCUR ON USCG PROPERTY. SEE TYPICAL SECTION 1/C-301 FOR REFERENCE.
 - SAND FILL (REUSE OF EXISTING AND/OR IMPORTED) SHALL BE PLACED FROM EXISTING GROUND TO A POINT ON THE REVEMENT THAT IS AT EL. +2.0 NAVD88 FROM STA. 1+76 TO STA. 8+44. APPROXIMATE TIE-IN LOCATIONS AS SHOWN. REFER TO CROSS SECTIONS FOR SAND FILL PLACEMENT IN THE CROSS-SHORE VIEW.
 - SAND FILL AREA TO BE PLANTED WITH SPARTINA ALTERNIFLORA. SEE EROSION AND SEDIMENT CONTROL PLAN ON SHEET CE101 FOR PLANTING LIMITS.
 - OUTFALL PIPE EXTENSION AT THIS LOCATION SHALL BE MADE WITH HDPE PIPE. SEE PROFILE 1/C-202.
 - WETLANDS LIMITS SHOWN REFER TO FINAL LIMITS OF EXISTING WETLANDS TO REMAIN. FINAL LIMITS MAY VARY DEPENDENT UPON EXISTING WETLAND LIMITS AT THE TIME OF CONSTRUCTION.



REVETMENT CENTERLINE GEOMETRY LEGEND

NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L17	49.85	40972.40	378276.65	N74° 06' 06.63"E	40986.05	378324.59
L18	41.18	40986.05	378324.59	N81° 34' 36.75"E	40992.09	378365.33
L19	74.01	40992.09	378365.33	N73° 46' 49.73"E	41012.76	378436.39
L20	35.32	41012.76	378436.39	N75° 00' 05.57"E	41021.90	378470.50
L21	76.20	41021.90	378470.50	N74° 23' 39.18"E	41042.40	378543.89
L22	23.60	41042.40	378543.89	N78° 26' 11.13"E	41047.13	378567.01
L23	50.64	41047.13	378567.01	N82° 50' 27.28"E	41053.44	378617.26
L24	306.61	41053.44	378617.26	N74° 20' 26.95"E	41136.20	378912.49
L25	19.09	41136.20	378912.49	N67° 16' 45.19"E	41143.57	378930.10
L26	14.30	41143.57	378930.10	N22° 28' 42.95"E	41156.79	378935.56

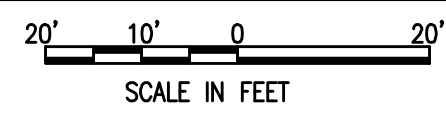


SURVEY AND CONSTRUCTION BASELINE GEOMETRY LEGEND

NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L3	518.99	40813.55	377862.11	N74° 18' 04.40"E	40953.98	378361.74
L4	1489.02	40853.98	378361.74	N74° 20' 26.95"E	41355.89	379795.50



PLAN - STA. 6+00 TO STA. 13+27



NOTES:

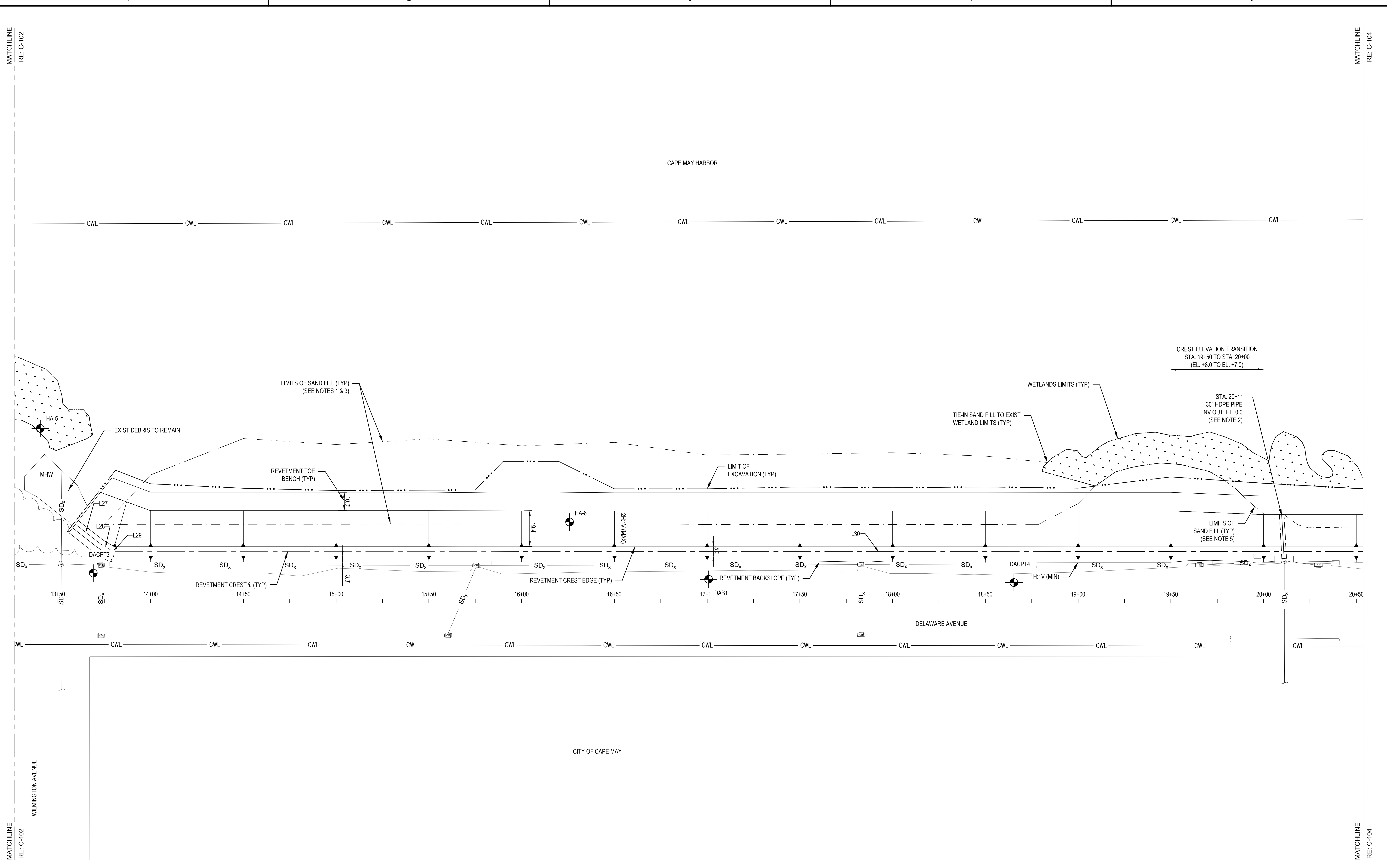
- LOCATION FOR NEW NATURE CENTER ACCESS RAMP SHOWN. SEE SHEET C-201 FOR RAMP PLAN AND PROFILE INFORMATION.
- SAND FILL (REUSE OF EXISTING AND/OR IMPORTED) SHALL BE PLACED FROM EXISTING GROUND TO A POINT ON THE REVETMENT THAT IS AT EL. +2.0 NAVD88 FROM STA. 8+88 TO STA. 12+60. APPROXIMATE TIE-IN LOCATIONS AS SHOWN. REFER TO CROSS SECTIONS FOR SAND FILL PLACEMENT IN THE CROSS-SHORE VIEW.
- SAND FILL AREA TO BE PLANTED WITH SPARTINA ALTERNIFLORA. SEE EROSION AND SEDIMENT CONTROL PLAN ON SHEET CE101 FOR PLANTING LIMITS.
- OUTFALL PIPE REPLACEMENT AT THIS LOCATION SHALL BE MADE WITH HDPE PIPE. SEE PROFILE 2/C-202 FOR REFERENCE. SAND FILL AT THIS LOCATION SHALL BE TAPERED A MINIMUM OF 5 FEET FROM EL. +2.0 TO THE OUTFALL INVERT AS SHOWN TO NOT BLOCK THE OUTLET.
- WETLANDS LIMITS SHOWN REFER TO FINAL LIMITS OF EXISTING WETLANDS TO REMAIN. FINAL LIMITS MAY VARY DEPENDENT UPON EXISTING WETLAND LIMITS AT THE TIME OF CONSTRUCTION.
- THE EXISTING 30" RCP PIPE MAY INTERFERE WITH THE PROPOSED REVETMENT LIMITS (LOCATION APPROXIMATE). THE CONTRACTOR SHALL NOT EXCAVATE THE PIPE TO CONSTRUCT THE REVETMENT. FIELD MODIFICATIONS TO THE REVETMENT CROSS SECTION ARE ACCEPTABLE WHERE THE EXISTING PIPE INTERSECTS THE REVETMENT.
- THE CONTRACTOR SHALL EXTEND THE EXISTING 3" PVC SALT WATER INTAKE LINE (NATURE CENTER OF CAPE MAY) TO ENSURE THE PIPE DAYLIGHTS THROUGH THE COMPLETED REVETMENT. APPROXIMATE LOCATION OF THE PIPE SHOWN. INVERT IS UNKNOWN. FINAL INVERT SHALL BE BELOW HTL. NEW PVC PIPE SHALL MATCH EXISTING.

NO.	DATE	BY	DESCRIPTION

ISSUED FOR APPROVAL DATE: 06/10/2023	ISSUED BY: JCS	DESIGNED BY: DAN	FILE NUMBER: 23CE101-000 TO STA. 13+27
ISSUED FOR APPROVAL DATE:	DRAWN BY: DAN	REVISION NUMBER:	
		CONTRACT NUMBER:	

DELAWARE AVENUE REVETMENT
 CAPE MAY, NEW JERSEY
 CAFE MAY COUNTY, NEW JERSEY
 PLAN - STA. 6+00 TO STA. 13+27

SHEET NUMBER
C-102



NO.	DATE	BY	DESCRIPTION

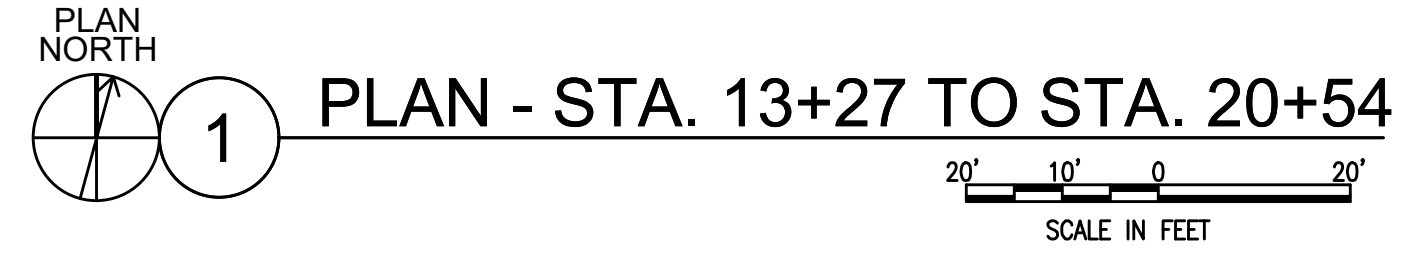
ISSUED DATE: 26 JUN 2023	ISSUED BY: JCS	DESIGNED BY: JCS	DATE: 26 JUN 2023
CONTRACT NUMBER: 2019-02-003-004	PROJECT NUMBER: 2019-02-003-004	DESIGN NUMBER: 2019-02-003-004	DATE: 26 JUN 2023
FILE NAME: C:\PROJECTS\2019-02-003-004	PROJECT NUMBER: 2019-02-003-004	DESIGN NUMBER: 2019-02-003-004	DATE: 26 JUN 2023

DELAWARE AVENUE REVETMENT
 CAPE MAY, NEW JERSEY
 CITY OF CAPE MAY, NEW JERSEY
 PLAN - STA. 13+27 TO STA. 20+54

SHEET NUMBER
C-103

NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L4	1489.02	40953.98	378361.74	N74° 20' 26.95"E	41355.89	379795.50

NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L27	16.94	41178.04	379007.75	S67° 29' 24.71"E	41171.56	379023.40
L28	7.32	41171.56	379023.40	S74° 49' 00.11"E	41169.64	379030.46
L29	1.75	41169.64	379030.46	N86° 22' 51.06"E	41169.75	379032.20
L30	823.09	41169.75	379032.20	N74° 20' 25.40"E	41391.92	379824.74

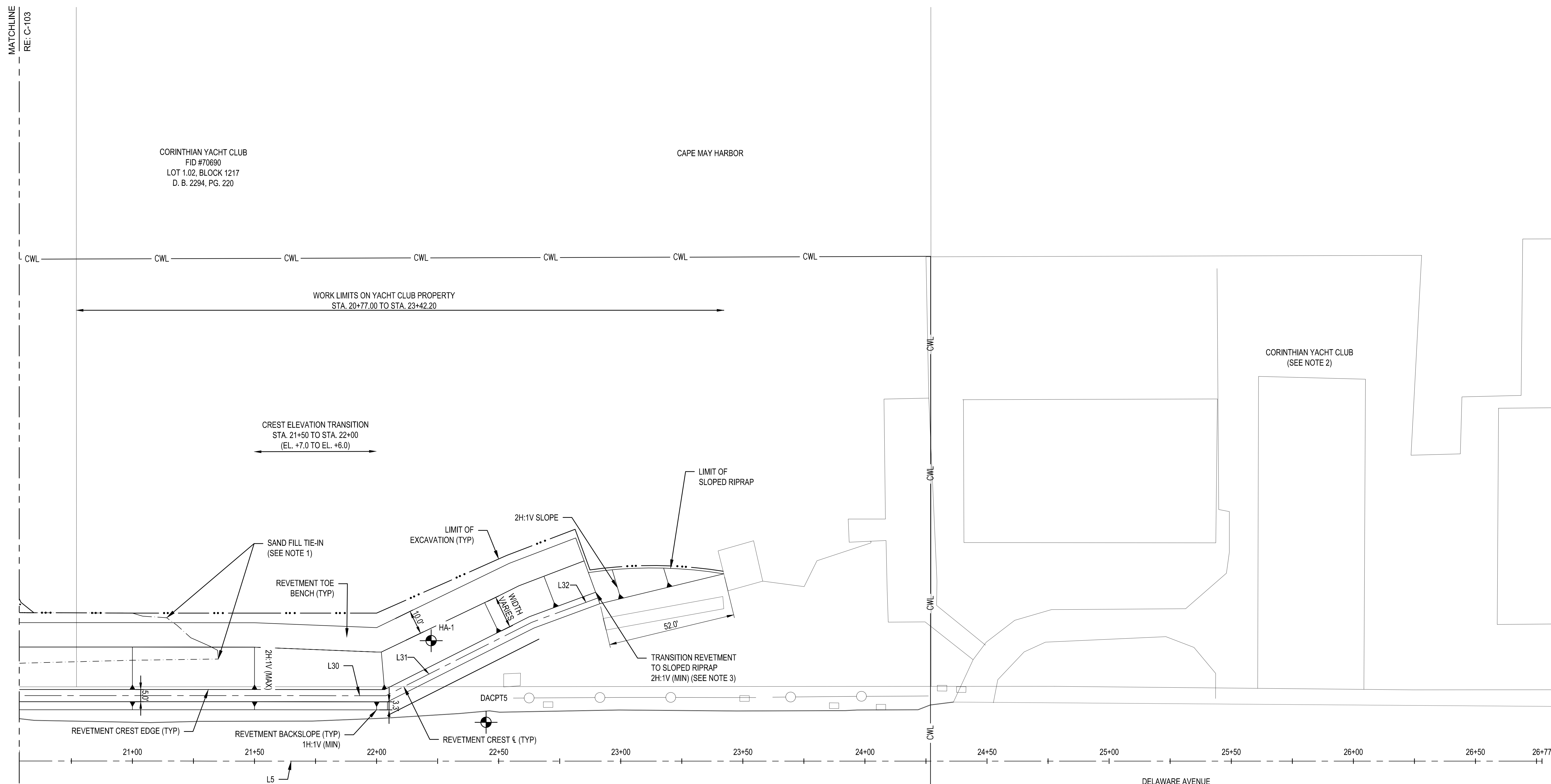


NOTES:

1. SAND FILL (REUSE OF EXISTING AND/OR IMPORTED) SHALL BE PLACED FROM THE EXISTING GROUND TO A POINT ON THE REVETMENT THAT IS AT EL. +2.0 NAVD88 FROM STA. 13+75 TO STA. 19+10. TIE-IN LOCATIONS ARE AS SHOWN. REFER TO CROSS SECTIONS FOR SAND FILL PLACEMENT IN THE CROSS-SHORE VIEW.
2. OUTFALL PIPE REPLACEMENT AT THIS LOCATION. SEE PROFILE 3/C-202 FOR REFERENCE. SAND FILL AT THIS LOCATION SHALL BE TAPERED A MINIMUM OF 5 FEET FROM EL. +2.0 TO THE OUTFALL INVERT AS SHOWN TO NOT BLOCK THE OUTLET.
3. IMPORTED SAND AREA TO BE PLANTED WITH SPARTINA ALTERNIFLORA. SEE EROSION AND SEDIMENT CONTROL PLAN ON SHEET CE102 FOR PLANTING LIMITS.
4. WETLANDS LIMITS SHOWN REFER TO FINAL LIMITS OF EXISTING WETLANDS TO REMAIN. FINAL LIMITS MAY VARY DEPENDENT UPON EXISTING WETLAND LIMITS AT THE TIME OF CONSTRUCTION.
5. SAND FILL (REUSE OF EXISTING AND/OR IMPORTED) SHALL BE PLACED IN THE AREA OF WETLAND EXCAVATION BETWEEN STA. 19+79 TO 21+35 TO ACHIEVE FINAL GRADE. ALL EXCAVATED WETLAND MATERIAL SHALL BE DISPOSED OF UNLESS OTHERWISE DIRECTED BY THE COR.



US Army Corps of Engineers
PHILADELPHIA DISTRICT

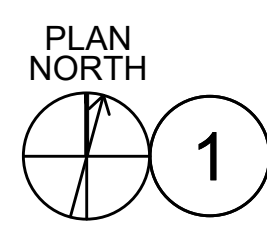


SURVEY AND CONSTRUCTION BASELINE GEOMETRY LEGEND

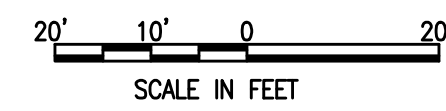
NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L4	1489.02	40953.98	378361.74	N74° 20' 26.95"E	41355.89	379795.50
L5	511.30	41355.89	379795.50	N74° 19' 50.10"E	41493.98	380287.80

REVETMENT CENTERLINE GEOMETRY LEGEND

NUMBER	LENGTH (FT)	START NORTHING	START EASTING	LINE DIRECTION (DEGREES)	END NORTHING	END EASTING
L30	823.09	41169.75	379032.20	N74° 20' 25.40"E	41391.92	379824.74
L31	66.77	41391.92	379824.74	N47° 35' 15.44"E	41436.95	379874.03
L32	28.88	41436.95	379874.03	N54° 07' 52.77"E	41453.88	379897.44



1 PLAN - STA. 20+54 TO STA. 26+77



NOTES:

1. SAND FILL (REUSE OF EXISTING AND/OR IMPORTED) SHALL BE PLACED BETWEEN STA. 19+79 AND STA. 21+50 TO REPLACE EXCAVATED WETLAND MATERIAL. SAND FILL SHALL TIE INTO LIMITS OF DISTURBED WETLANDS AS SHOWN.
2. APPROXIMATE LIMIT OF YACHT CLUB BUILDINGS SHOWN.
3. PROJECT TERMINUS TO BE TRANSITIONED FROM EDGE OF REVETMENT TO THE INTERSECTION OF THE EMBANKMENT AND THE TIMBER BOAT RAMP WITH SLOPED RIPRAP AS SHOWN. CONTRACTOR SHALL NOT DISTURB THE EXISTING TIMBER RAMP DURING INSTALLATION OF THE SLOPED RIPRAP.

DATE	BY	DESCRIPTION	MARK	ACTION

ISSUED DATE: 05/10/2023	DESIGNED BY: TDD	CONTRACT NUMBER: TBD
DRAWN BY: DAN	CHECKED BY: TDD	FILE NAME: C:\PROJECTS\1805450\STA. 20+54
PROJECT NUMBER: 1805450	PROJECT DATE: 05/10/2023	PROJECT LOCATION: CAPE MAY, NJ

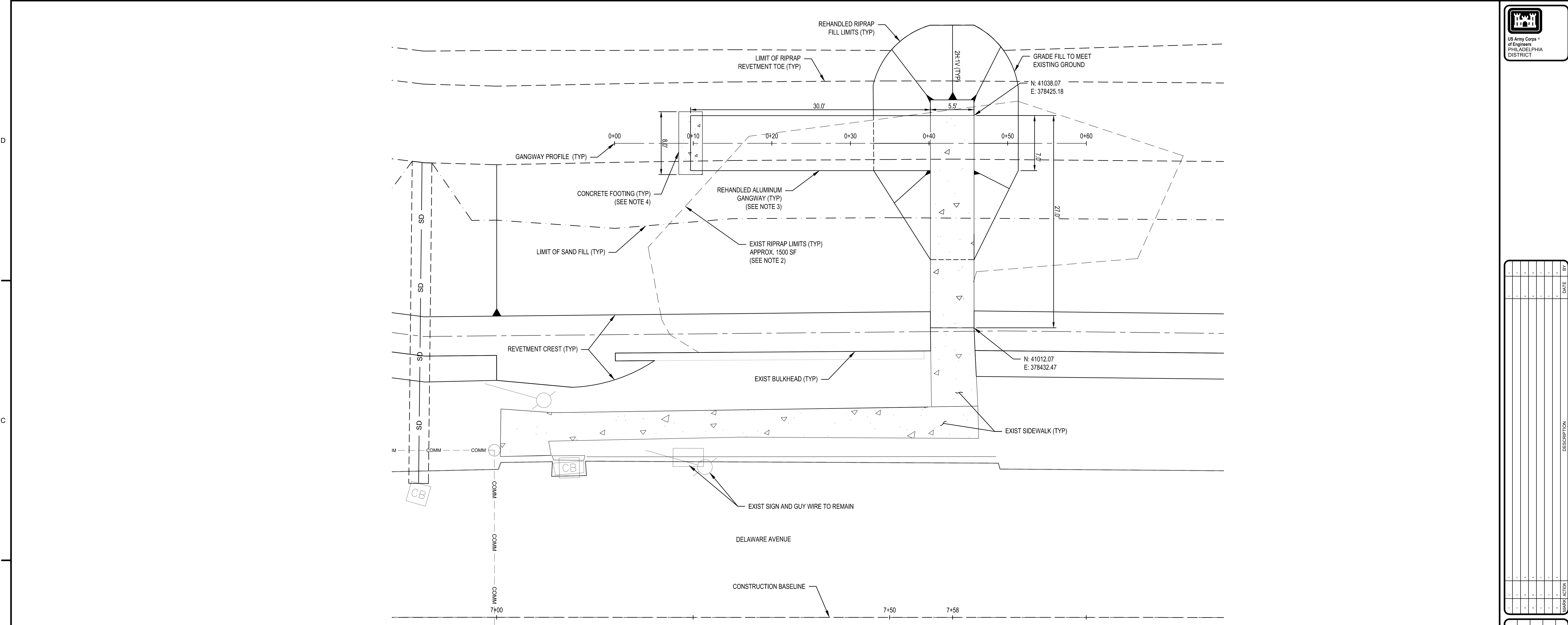
DELAWARE AVENUE REVETMENT
 CAPE MAY, NEW JERSEY
 C-104



ISSUED/REVISIONAL DATE	30/01/JUNE 2023
DESIGN BY	JCS
DESIGNED BY	DAN
TECH	TEH
CONTRACT NUMBER	TBD
CONTRACT NUMBER	TBD
FILE NAME	C:\PROJECTS\DELAVARE AVENUE\DELAVARE AVENUE CENTER RAMP.dwg
DATE	
DESCRIPTION	
MARK ACTION	

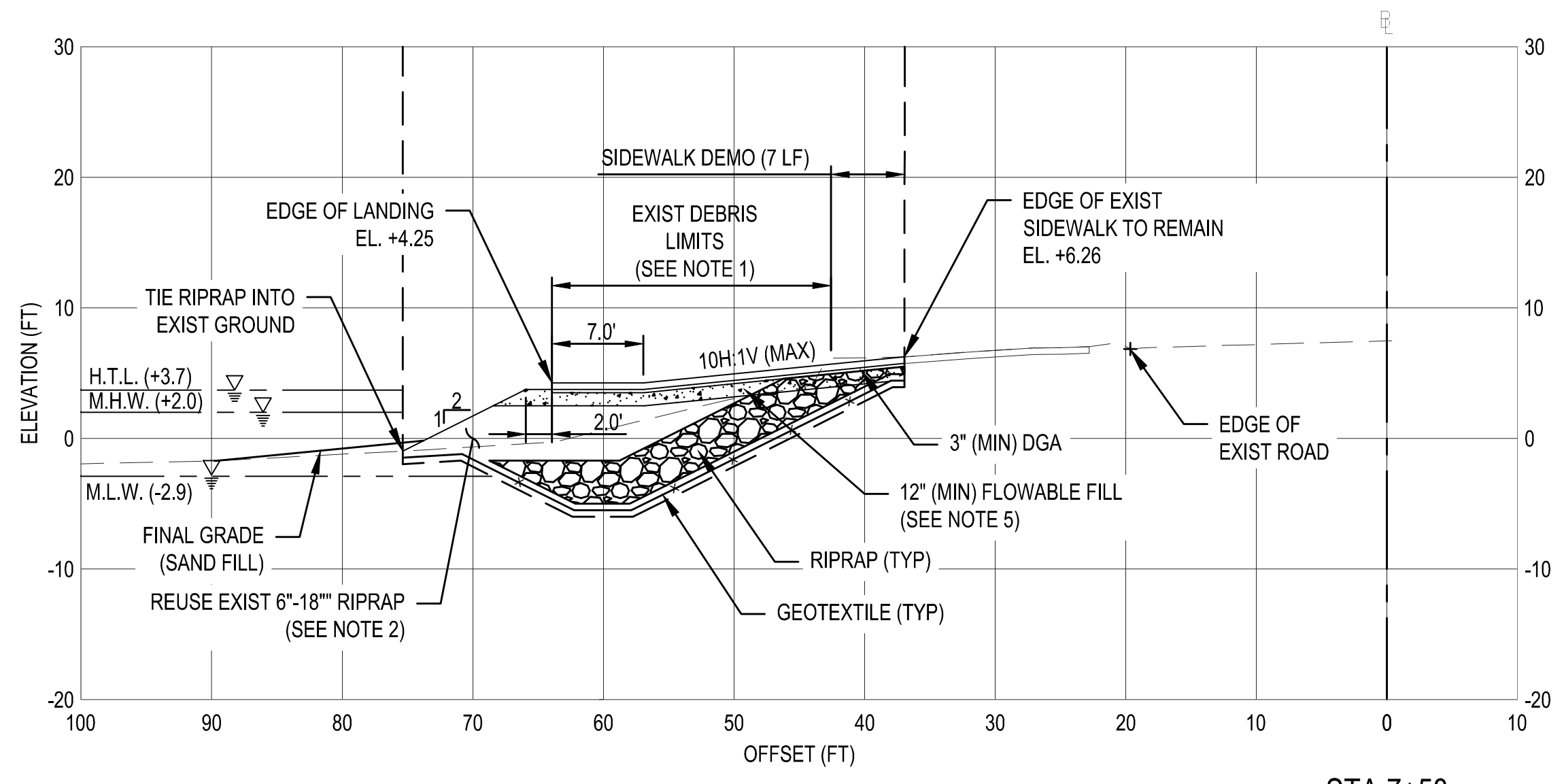
DELAVARE AVENUE RETEMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
PROFILE - NATURE CENTER RAMP

SHEET NUMBER
C-201



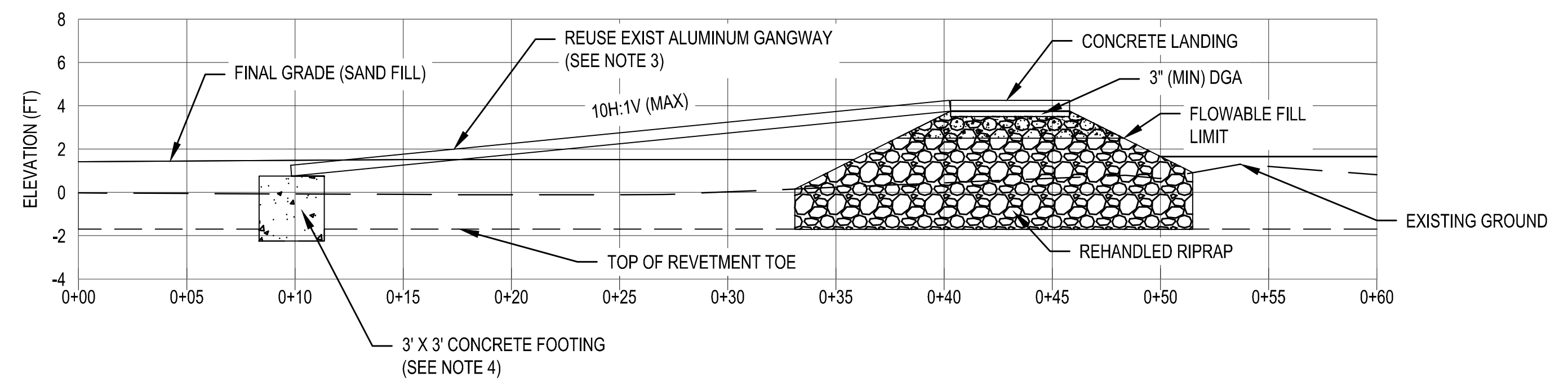
PLAN NORTH
1 PLAN - NATURE CENTER ACCESS RAMP

SCALE IN FEET



2 CROSS SECTION - CONCRETE RAMP

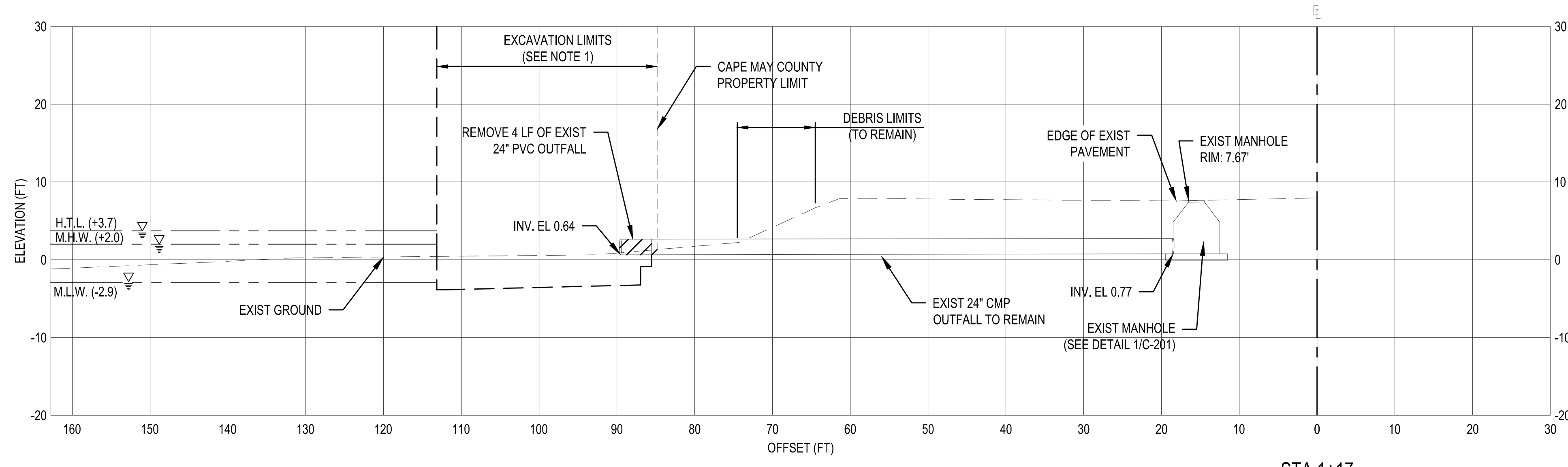
H: 0 10 20
V: 0 10 20
SCALE IN FEET



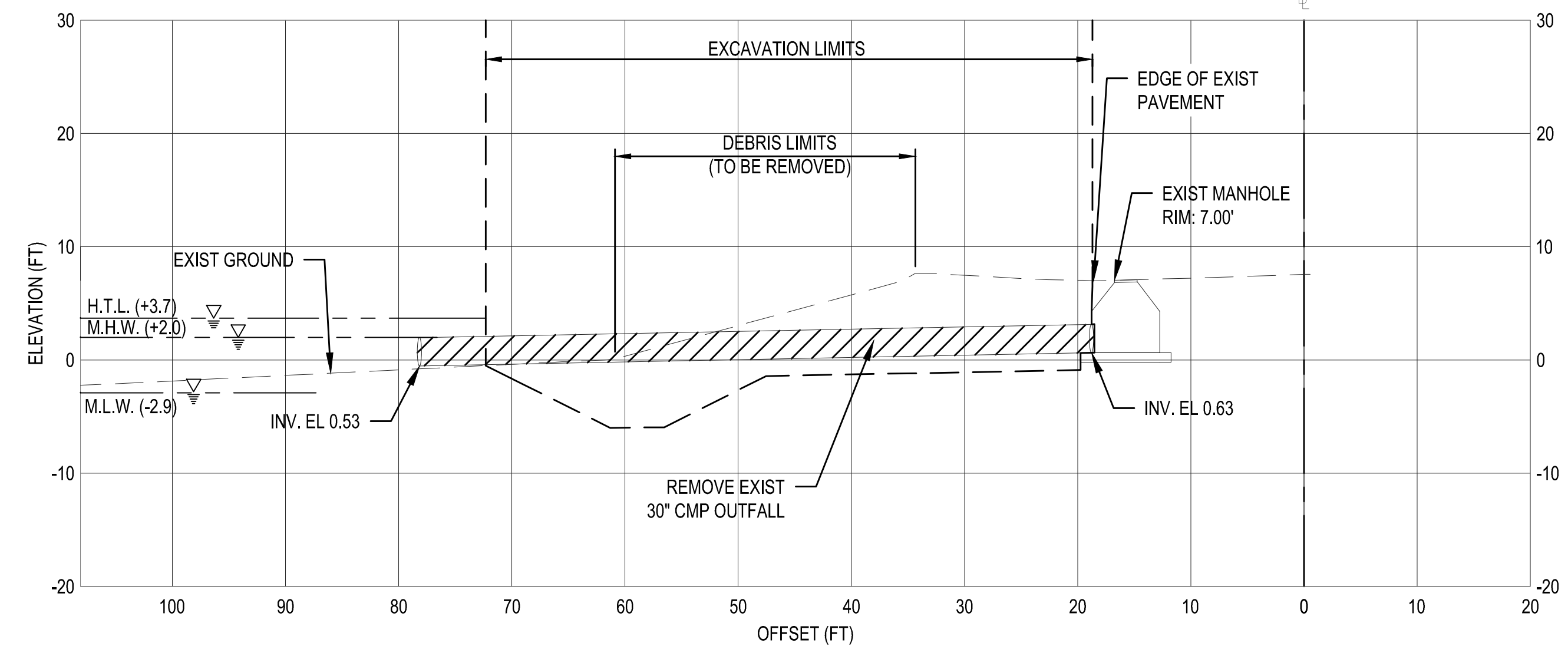
3 PROFILE - ALUMINUM GANGWAY ACCESS RAMP

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V: 0 4 8
SCALE IN FEET

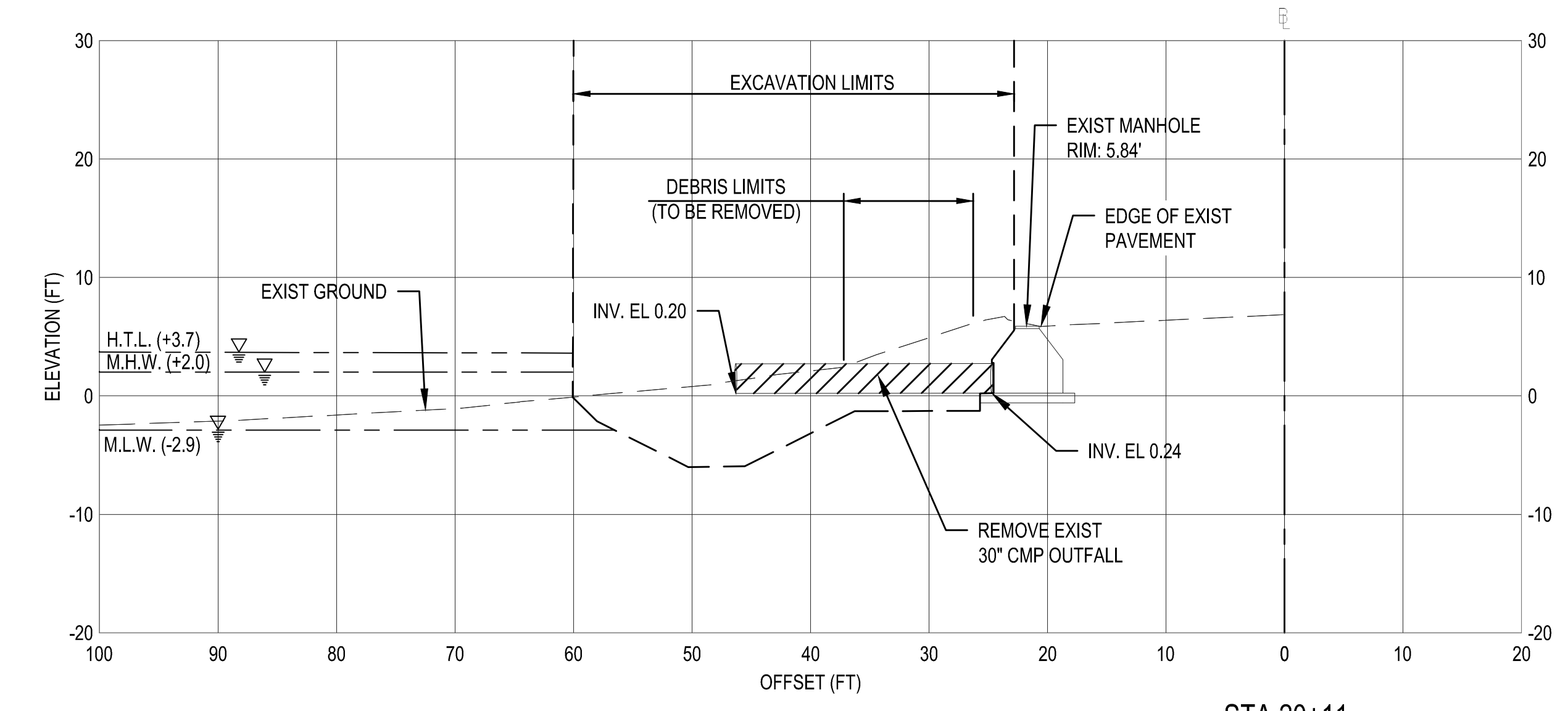
- NOTES:**
1. THE CONTRACTOR SHALL REMOVE THE EXISTING DEBRIS & RIP RAP WITHIN THE LIMITS SHOWN. PRIOR TO CONSTRUCTION OF THE REVETMENT.
 2. THE CONTRACTOR SHALL REUSE THE EXISTING 6" - 18" RIPRAP FROM THE CURRENT RAMP AREA TO CONSTRUCT NEW CONCRETE RAMP AND LANDING SUB-BASE (APPROXIMATELY 50 TONS). CONTRACTOR SHALL ATTEMPT TO REMOVE DEBRIS MIXED WITHIN RIPRAP DURING REHANDLE OF MATERIAL.
 3. THE CONTRACTOR SHALL REUSE THE EXISTING ALUMINUM GANGWAY AS SHOWN. SEE DETAIL 5/C-501 FOR REFERENCE.
 4. THE ALUMINUM GANGWAY SHALL CONNECT TO THE NEW CONCRETE FOOTING. SEE DETAIL 5/C-501 FOR REFERENCE.
 5. THE CONTRACTOR SHALL POUR FLOWABLE FILL INTO THE VOID SPACE OF THE REHANDLED RIPRAP PRIOR TO INSTALLATION OF THE NEW CONCRETE RAMP. SEE DETAIL 7/C-501 FOR REFERENCE.



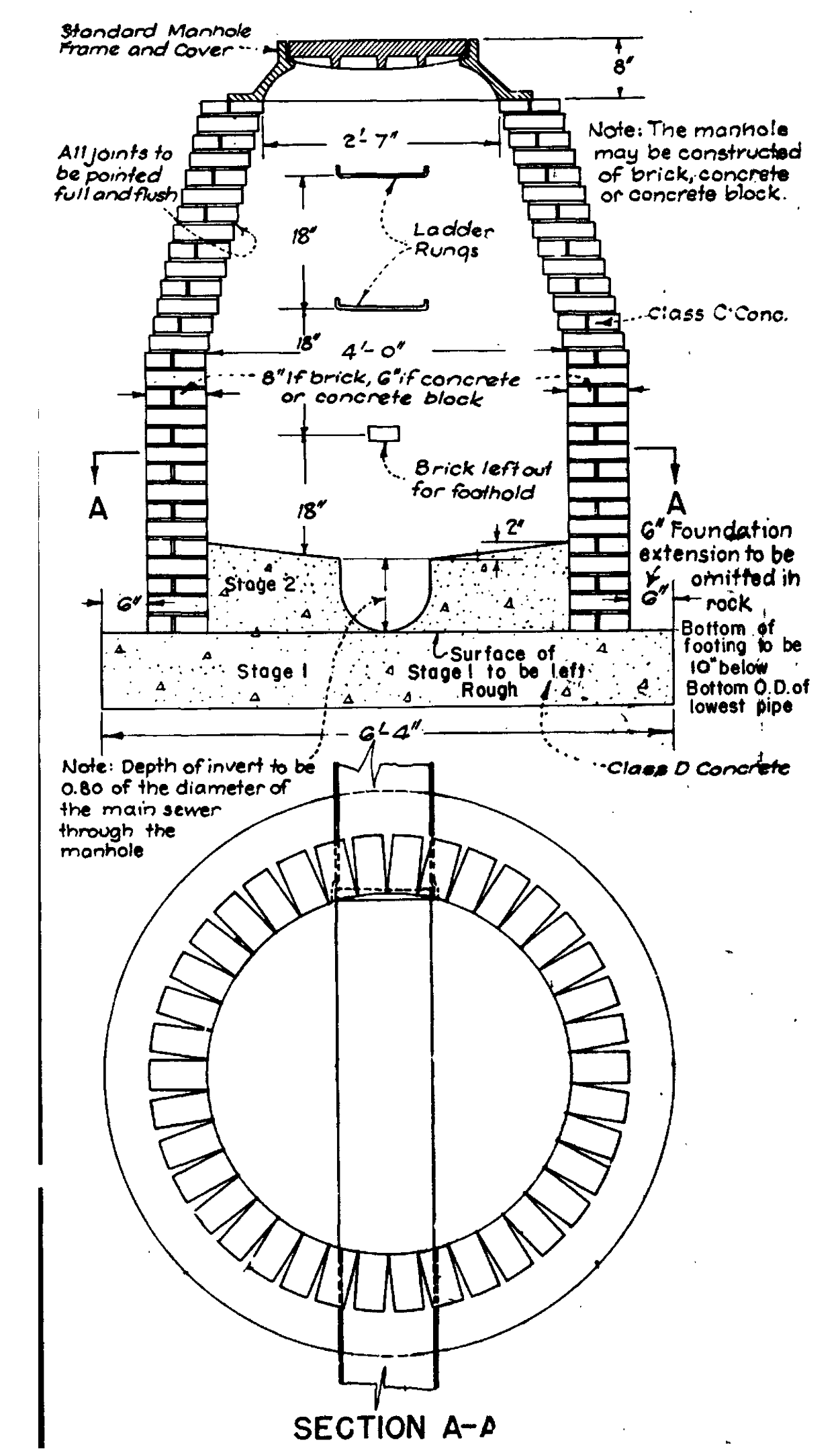
1 PROFILE - STA. 1+17 (EXISTING OUTFALL)
 H: 0 10 20
 V: 0 10 20
 SCALE IN FEET



2 PROFILE - STA. 6+90 (EXISTING OUTFALL)
 H: 0 10 20
 V: 0 10 20
 SCALE IN FEET



3 PROFILE - STA. 20+11 (EXISTING OUTFALL)
 H: 0 10 20
 V: 0 10 20
 SCALE IN FEET



4 DETAIL - STANDARD MANHOLE
 NTS

NOTES:

- EXCAVATION LIMITS ACCOUNT FOR THE CROSS-SECTIONAL AREA TO BE REMOVED FOR THE INSTALLATION OF THE RIPRAP REVETMENT/SILL AND THE OUTFALL PIPES. NO EXCAVATION SHALL OCCUR BEYOND CAPE MAY COUNTY PARCEL LIMITS AT THE STA. 1+17 OUTFALL.
- INVERT ELEVATIONS SHOWN ARE BASED ON FEBRUARY 2021 SURVEY CONDITIONS. INVERT LOCATIONS IN THE EXISTING MANHOLE AND AT THE OUTLET MAY VARY. A FIELD ADJUSTMENT OF THE PIPE LAYOUT MAY BE NECESSARY TO ENSURE STORMWATER CONVEYANCE DURING CONSTRUCTION.
- EXISTING CONFIGURATION OF THE STANDARD DELAWARE AVENUE MANHOLE SHOWN FOR REFERENCE IN DETAIL 4/C-202.

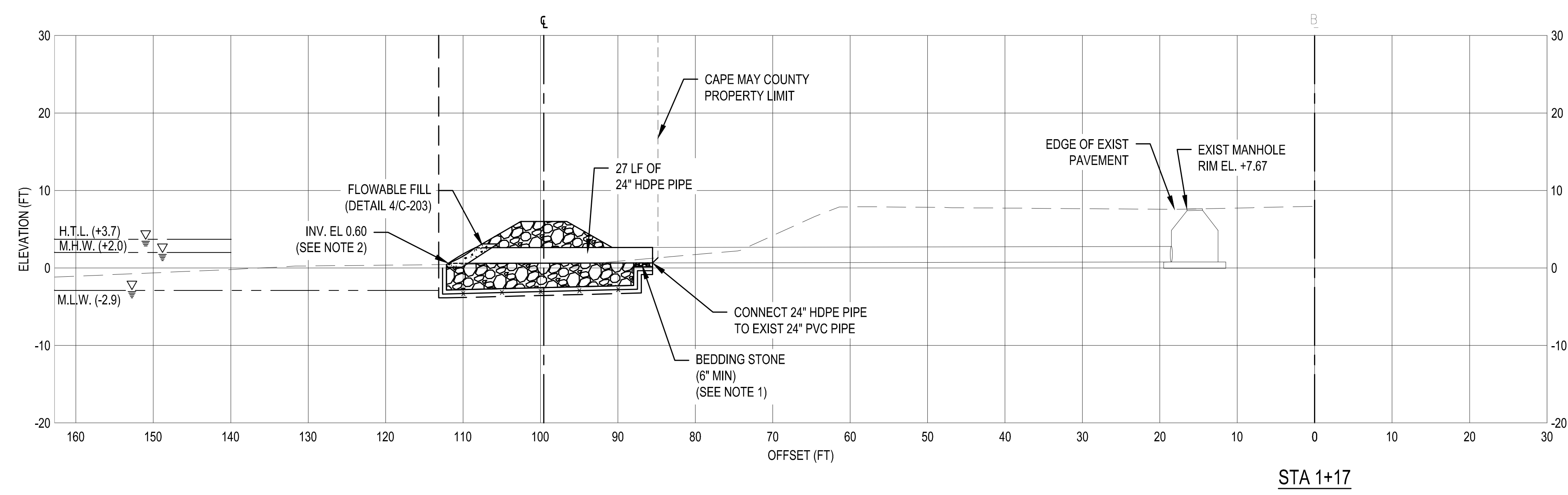
US Army Corps of Engineers
 PHILADELPHIA DISTRICT

ISSUED/REVISIONAL DATE: 26/06/2023	DESIGNED BY: JTB	ISSUED/REVISIONAL DATE: 26/06/2023	DESIGNED BY: JTB
CONTRACT NUMBER: TBD	PROJECT NUMBER: TBD	CONTRACT NUMBER: TBD	PROJECT NUMBER: TBD
FILE NAME: C:\PROJECTS\EXISTING OUTFALLS.dwg	DATE: 26/06/2023	FILE NAME: C:\PROJECTS\EXISTING OUTFALLS.dwg	DATE: 26/06/2023

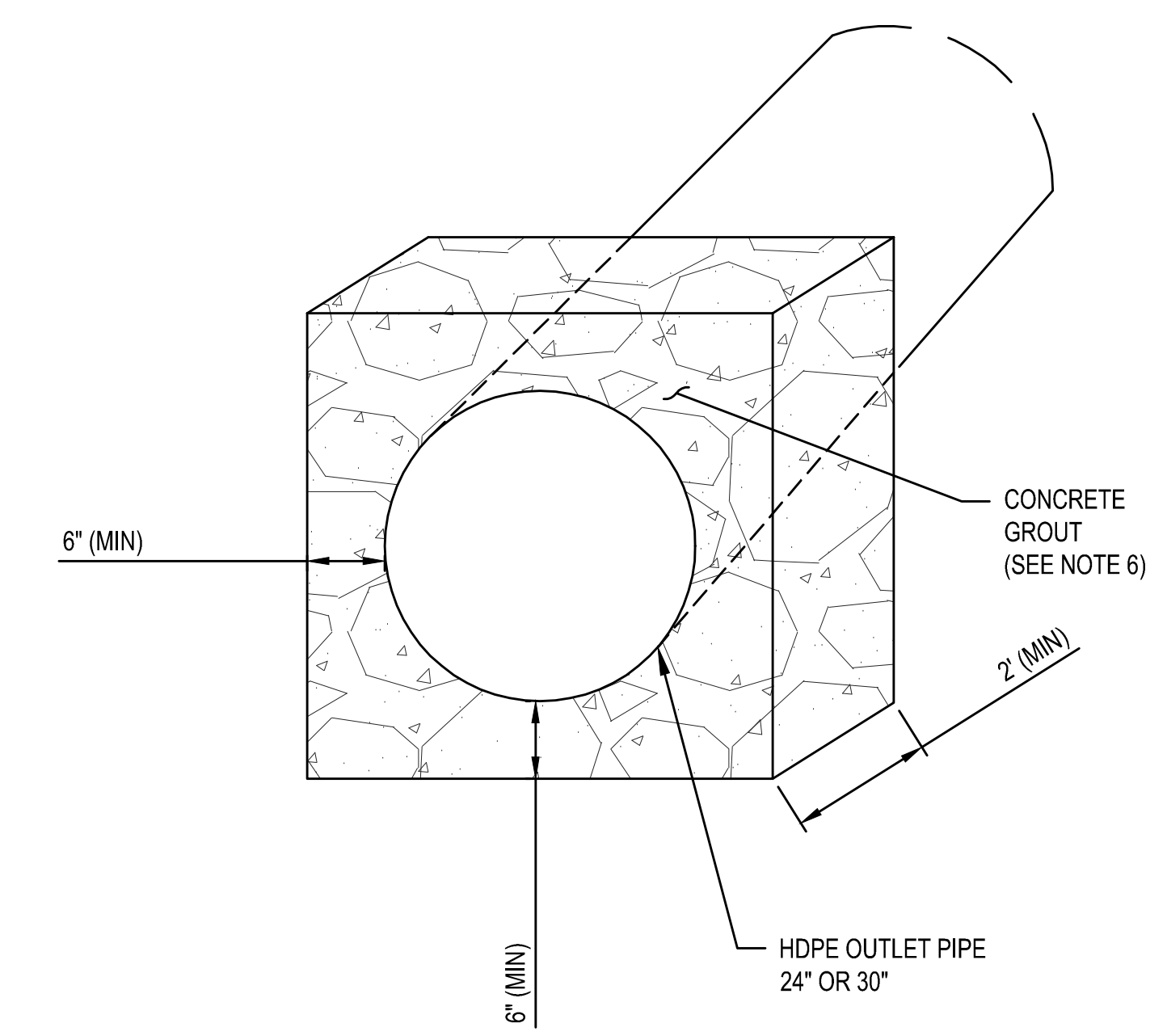
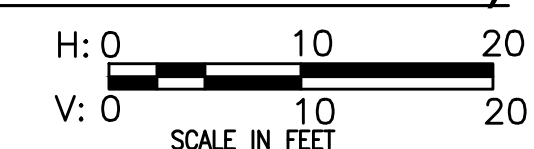
U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT

DELAWARE AVENUE REVETMENT
 CAPE MAY, NEW JERSEY
 CAPE MAY COUNTY, NEW JERSEY
 PROFILE - EXISTING OUTFALLS

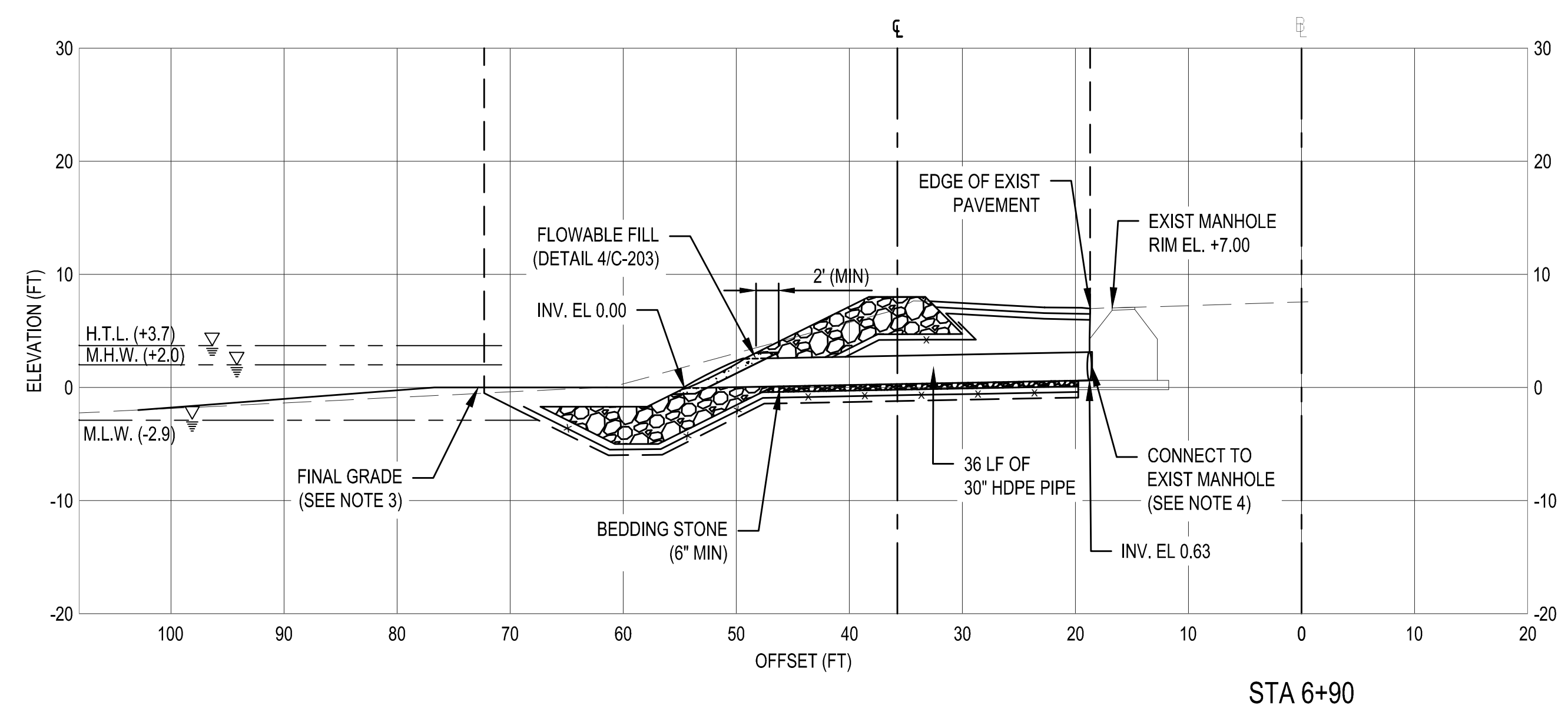
SHEET NUMBER
C-202



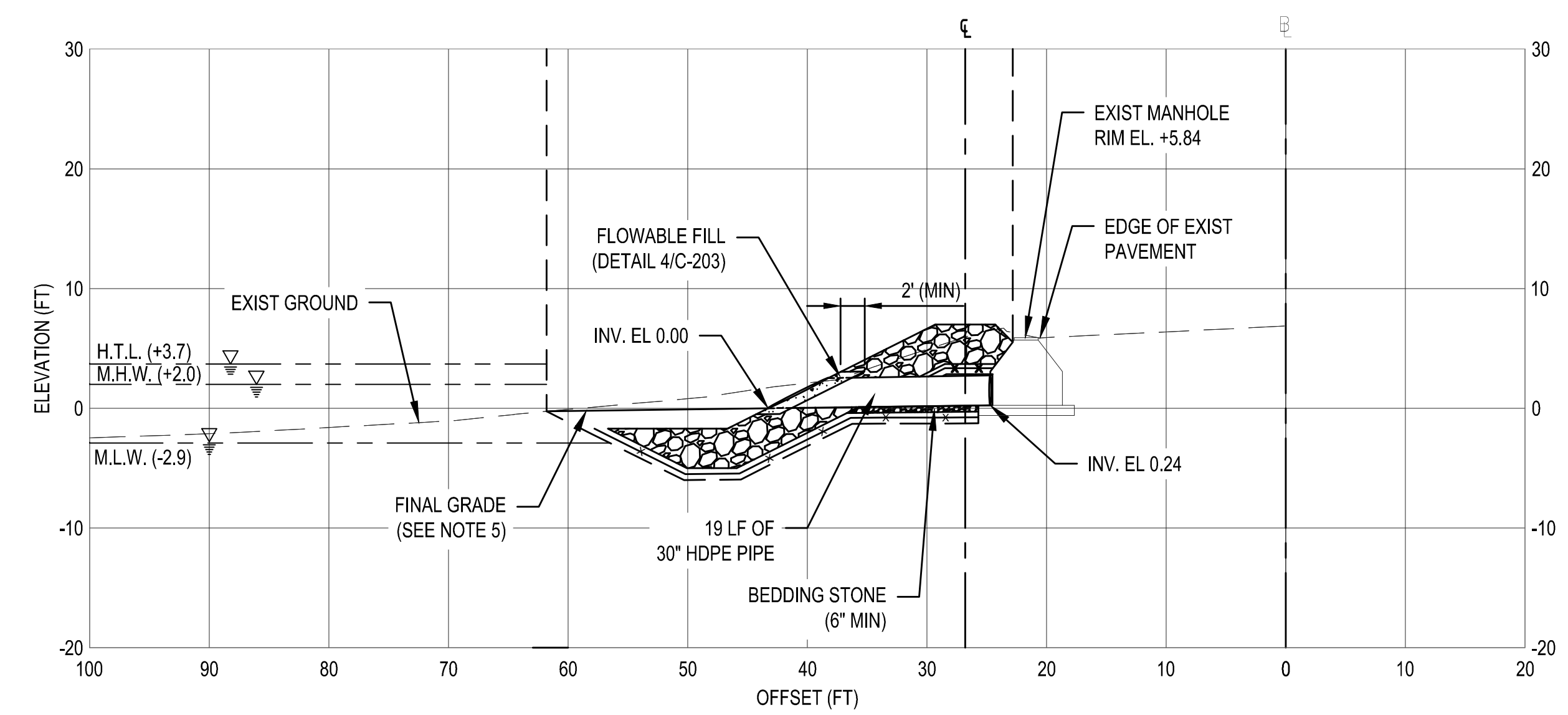
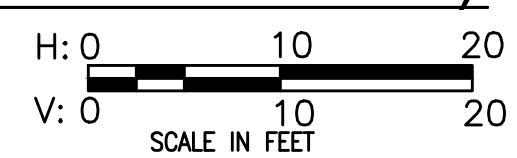
1 PROFILE - STA. 1+17 (OUTFALL EXTENSION)



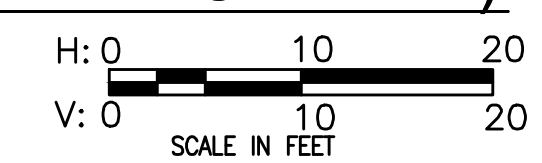
4 DETAIL - CONCRETE GROUT
NTS



2 PROFILE - STA. 6+90 (OUTFALL REPLACEMENT)



3 PROFILE - STA. 20+11 (OUTFALL REPLACEMENT)



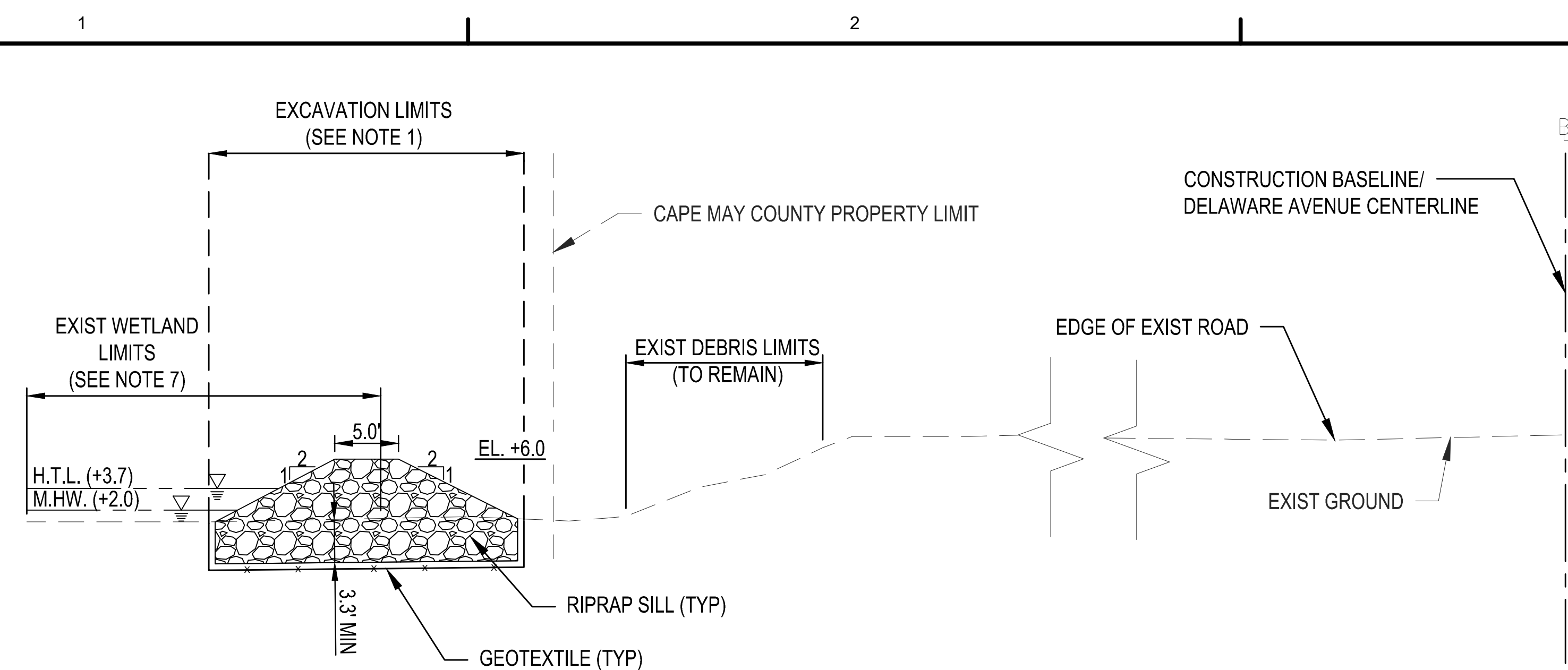
NOTES:

1. THE CONTRACTOR SHALL UTILIZE A MINIMUM 6" THICK BEDDING STONE LAYER BENEATH THE OUTFALL PIPE WHERE THE PIPE IS NOT LOCATED ABOVE RIPRAP. BEDDING STONE SHALL BE AASHTO NO.57 STONE.
2. INVERT ELEVATIONS SHOWN ARE BASED ON FEBRUARY 2021 SURVEY CONDITIONS. INVERT LOCATIONS IN THE EXISTING MANHOLE AND AT THE OUTLET MAY VARY. A FIELD ADJUSTMENT OF THE PIPE LAYOUT MAY BE NECESSARY TO ENSURE STORMWATER CONVEYANCE DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL ADJUST FINAL GRADE OF IMPORTED SAND FILL AT THIS LOCATION TO ENSURE THE COMPLETED OUTFALL IS NOT BURIED.
4. THE CONTRACTOR SHALL CONNECT TO THE EXISTING MANHOLE IN ACCORDANCE WITH SECTION 33 40 00 OF THE PROJECT SPECIFICATIONS. IF THE MANHOLE IS FOUND IN POOR CONDITION, THE CONTRACTOR SHALL CONTACT THE COR.
5. THE CONTRACTOR SHALL ADJUST THE FINAL GRADE OF BACKFILLED WETLANDS AREA TO ENSURE THE COMPLETED OUTFALL IS NOT BURIED.
6. CONCRETE GROUT AT OUTLET OF HDPE PIPE SHALL CONFORM TO REQUIREMENTS OF SPECIFICATION SECTION 33 40 00 STORM DRAINAGE UTILITIES.

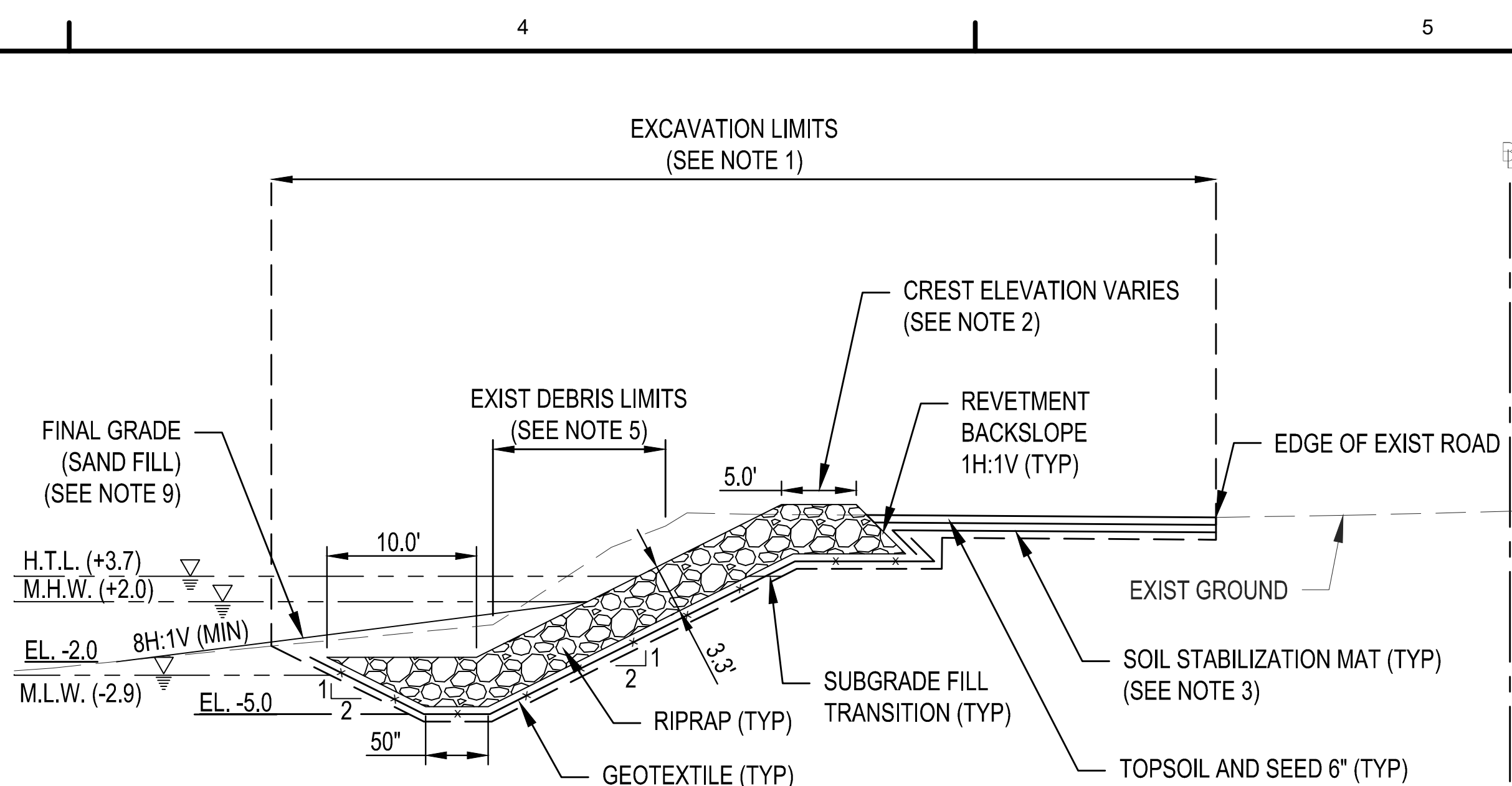
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DESIGNED BY:	DAN	CONTRACT NUMBER:	TBD
U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT	FILE NAME:	C:\PROJECTS\OUTFALL\ENGDRWG.SWG	
DATE:		DESCRIPTION:	

DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
PROFILE - OUTFALL WORK

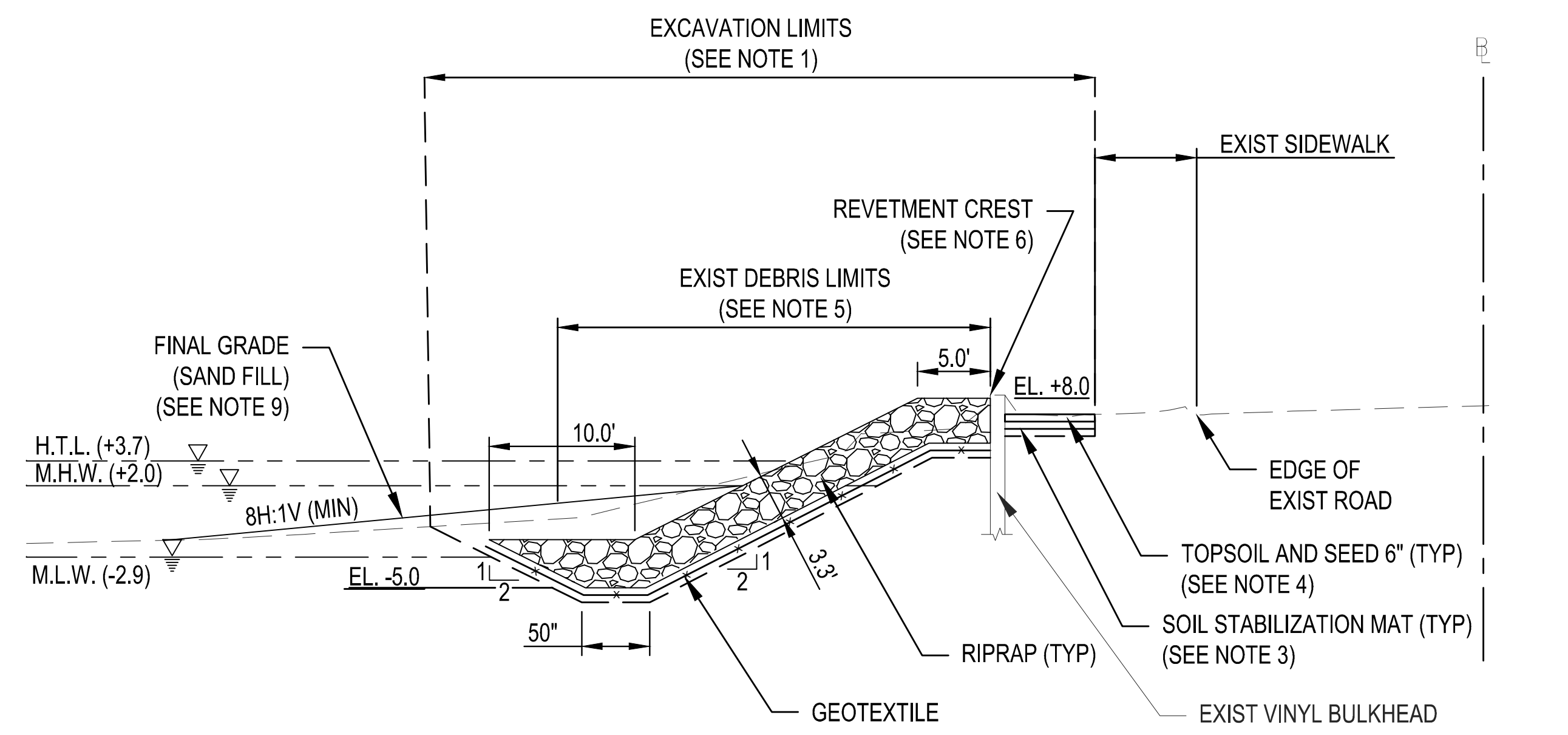
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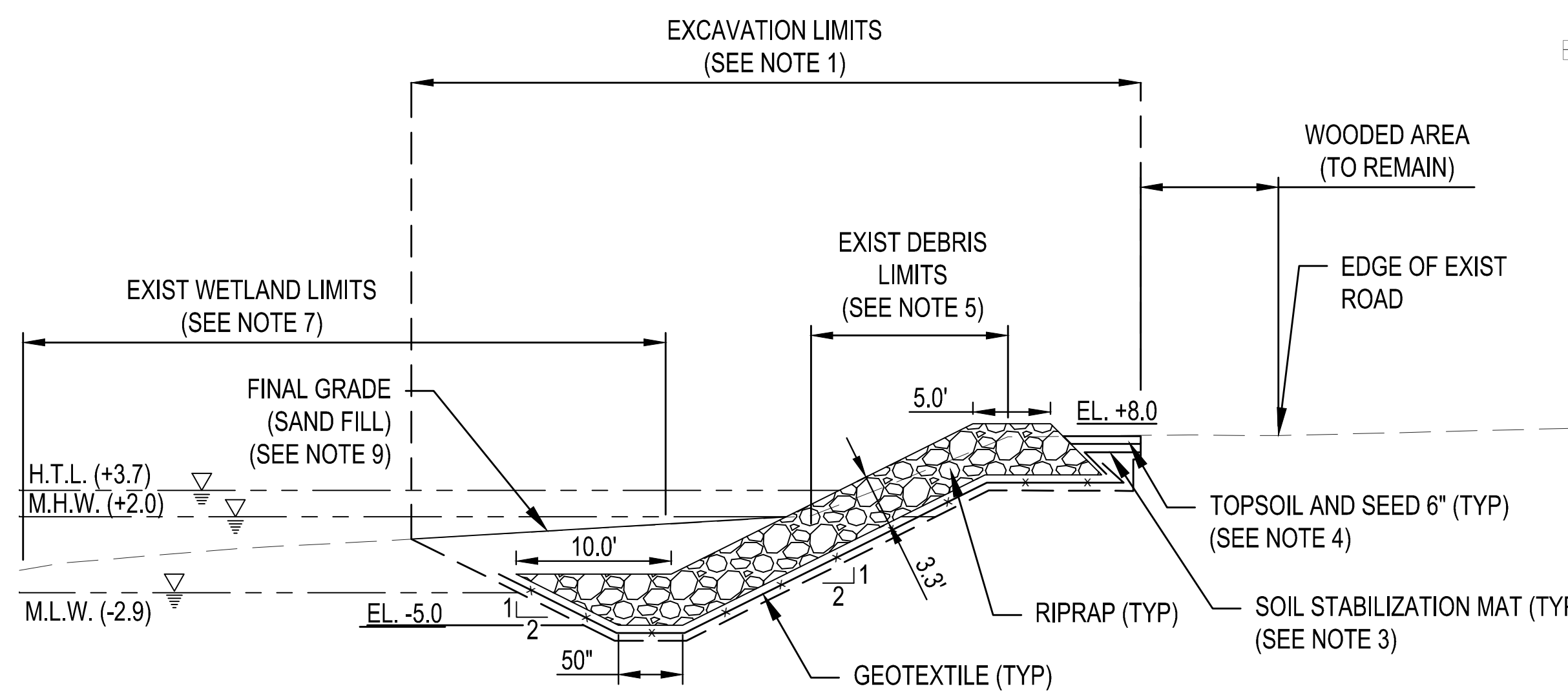
1 TYPICAL SECTION - STA. 0+78 TO STA. 1+72
NTS



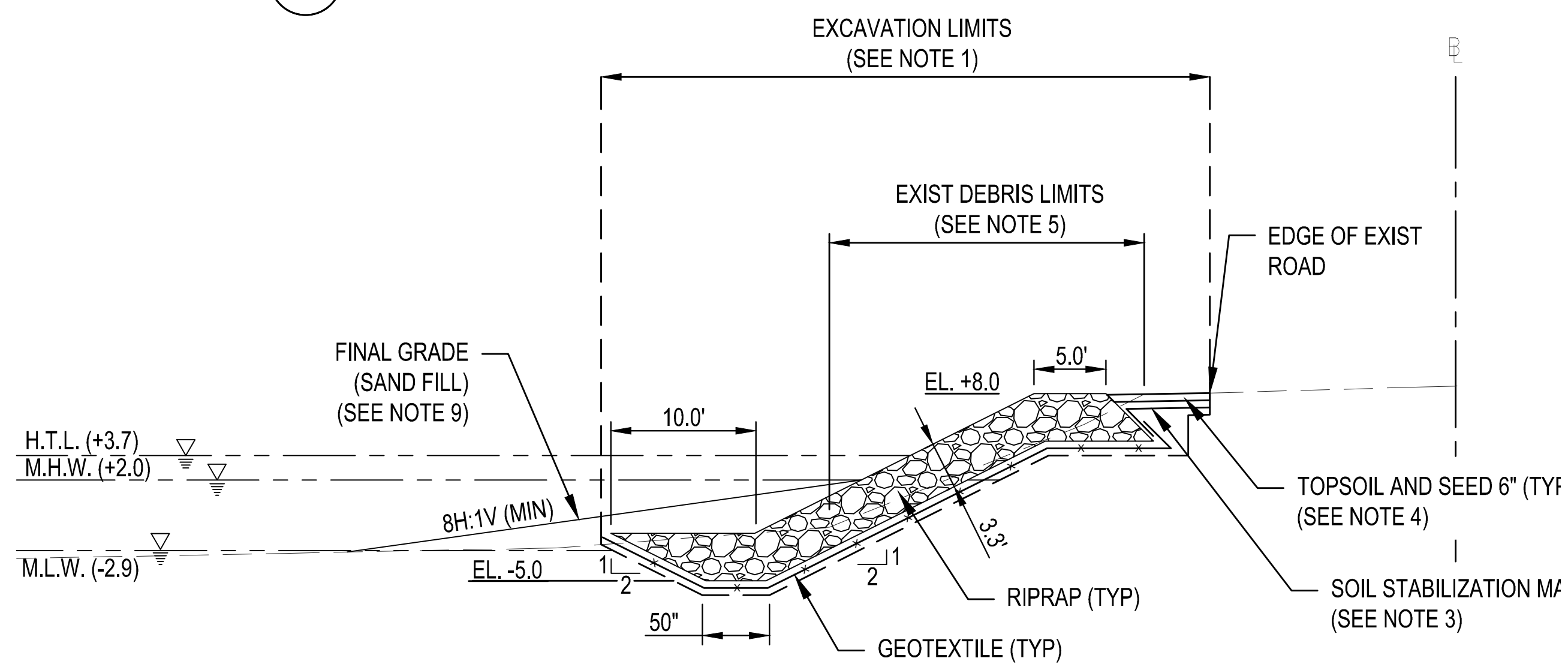
2 TYPICAL SECTION - STA. 1+72 TO STA. 7+00
NTS



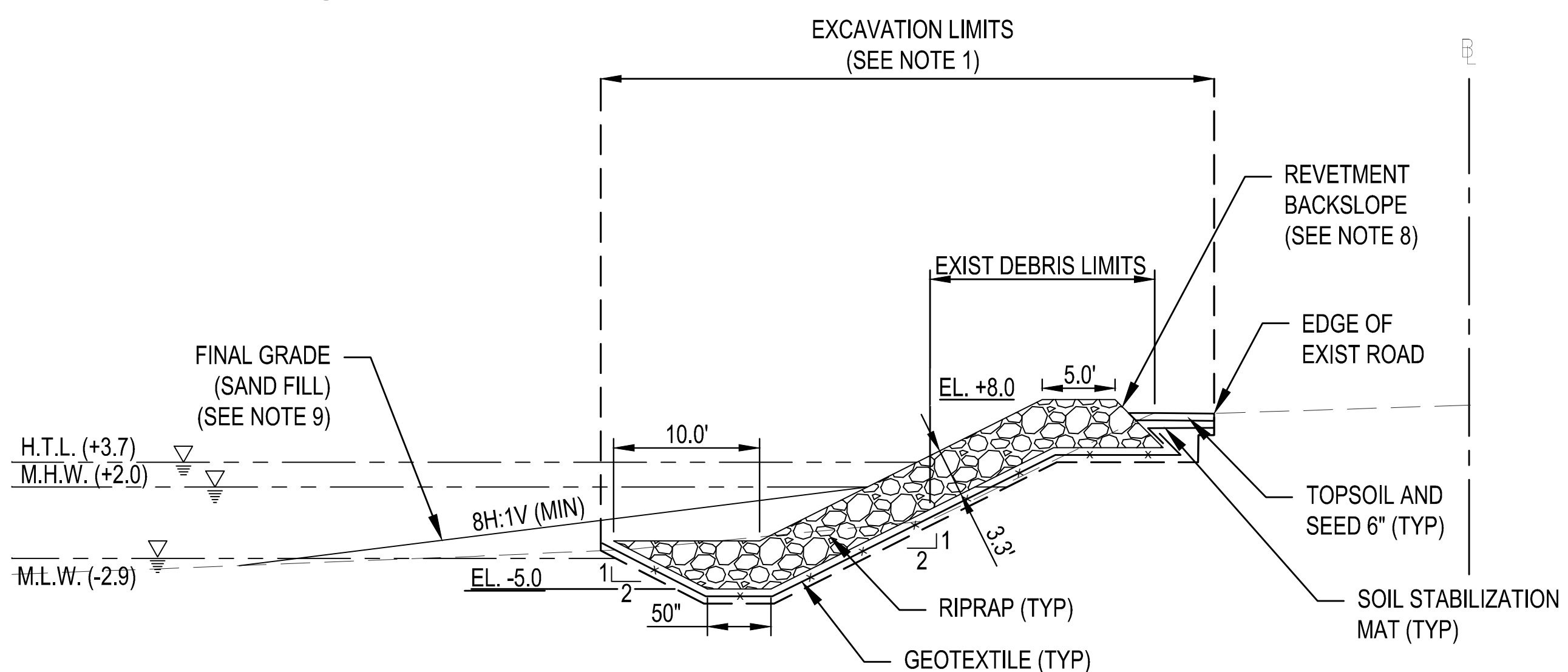
3 TYPICAL SECTION - STA. 7+00 TO STA. 7+60
NTS



4 TYPICAL SECTION - STA. 7+60 TO STA. 9+00
NTS



5 TYPICAL SECTION - STA. 9+00 TO STA. 12+89
NTS



6 TYPICAL SECTION - STA. 13+58 TO STA. 18+90
NTS

NOTES:

- THE CONTRACTOR SHALL EXCAVATE A MAXIMUM OF 1 FOOT OF MATERIAL OR DEBRIS OFFSET OF THE PROPOSED REVETMENT LIMITS. AT THE TOE OF THE STRUCTURE, THE WATERWARD EXCAVATION LIMIT SHALL BE A CONTINUATION OF THE 2H:1V TOE SLOPE TO EXISTING GROUND. THE CONTRACTOR SHALL ONLY EXCAVATE BEYOND THE 1 FOOT OFFSET IF DEBRIS BEYOND THIS LIMIT WILL PROTRUDE INTO THE GEOTEXTILE LAYER OR AS DIRECTED BY THE COR. THE CONTRACTOR SHALL CONSULT WITH THE COR PRIOR TO EXCEEDANCE. AFTER COMPLETION OF THE EXCAVATION THE CONTRACTOR SHALL PREPARE THE SUBGRADE OF THE REVETMENT WITH THE USE OF AASHTO NO.57 STONE BELOW MHW AND SAND FILL ABOVE MHW. SEE SUBGRADE TRANSITION LINE SHOWN IN TYPICAL SECTIONS. ALL MATERIAL BELOW EXISTING GRADE AND NOT LOCATED WITHIN THE EXISTING DEBRIS OR WETLAND LIMITS SHALL BE ASSUMED AS SUITABLE FOR BACKFILL. EXCAVATED MATERIAL MAY BE STOCKPILED WATERWARD OF THE EXCAVATION LIMIT DURING CONSTRUCTION, HOWEVER THE CONTRACTOR SHALL MANAGE STOCKPILE ACCORDINGLY TO ENSURE MATERIAL SUITABLE FOR BACKFILL IS NOT LOST TO DAILY TIDAL ACTIVITY. THIS NOTE APPLIES THROUGHOUT THE ENTIRE REVETMENT LIMITS BETWEEN STA. 0+78 TO STA. 23+43.
- REVETMENT CREST ELEVATION BETWEEN STA. 1+72 AND STA. 7+00 VARIES BETWEEN EL. +9.0 NAVD88 AND EL. +8.0 NAVD88. SEE SHEET C-101 FOR CREST ELEVATION TRANSITION LOCATIONS.
- SOIL STABILIZATION MAT SHALL BE INSTALLED BENEATH THE PROPOSED TOPSOIL AREA. THIS MAT SHALL ACHIEVE A MINIMUM OF 1 FOOT OVERLAP OF THE PROPOSED REVETMENT GEOTEXTILE. OVERLAP SHOWN IS APPROXIMATE. THIS APPLIES TO ALL CROSS SECTIONS WHERE SHOWN.
- CONTRACTOR SHALL PLACE 6" OF TOPSOIL AND SEED AT THE LOCATIONS SHOWN. TOPSOIL ONLY TO BE PLACED BETWEEN EXISTING BULKHEAD AND EXISTING SIDEWALK BETWEEN STA. 7+00 AND 7+60. TOPSOIL ONLY TO BE PLACED 5 FEET FROM LANDWARD EDGE OF CREST BETWEEN STA. 7+60 AND STA. 9+00 TO MINIMIZE IMPACT TO UPLAND WOODED AREA. TOPSOIL FINAL GRADE SHALL FOLLOW THE EXISTING GROUND AS SHOWN.
- EXISTING DEBRIS VARIES THROUGHOUT PROJECT SITE. SEE EXISTING CONDITIONS AND DEMOLITION PLAN FOR DESCRIPTION OF TYPES OF MATERIAL. THE CONTRACTOR SHALL ASSUME A MINIMUM OF 1H:1V SLOPE WILL BE REQUIRED TO REMOVE OBJECTS AT THE EDGE OF THE DEBRIS LIMITS WHERE EXCAVATION IS NECESSARY. IF THE CONTRACTOR ENCOUNTERS BITUMINOUS CHUNKS OR CLUSTERS WITHIN THE DEBRIS LIMITS THAT IS TO BE EXCAVATED, IT SHALL BE REMOVED IN ITS ENTIRETY TO MINIMIZE THE BREAKING AND SPREAD OF BITUMINOUS PARTICLES.
- REVETMENT CREST ELEVATION BETWEEN STA. 7+00 AND STA. 7+60 SHALL BE CONSTRUCTED TO EL. +8.0 NAVD88.
- THE CONTRACTOR SHALL DISPOSE OF ALL MATERIAL EXCAVATED FROM WITHIN THE WETLANDS LIMITS AS IT WILL NOT BE SUITABLE FOR BACKFILL. THIS MATERIAL WILL BE REPLACED WITH EXISTING OR IMPORTED SAND. THE CONTRACTOR SHALL ASSUME A MINIMUM 1H:1V SLOPE WILL BE REQUIRED FROM THE EDGE OF THE WETLANDS LIMITS SHOWN TO REMOVE VEGETATION WITHIN THE LIMIT OF EXCAVATION.
- RIPRAP USED IN REVETMENT BACKSLOPE BETWEEN STA. 13+58 AND STA. 22+05 SHALL BE EQUAL TO OR GREATER THAN THE SPECIFIED W50. CONTRACTOR SHALL CONSTRUCT THIS TO REDUCE THE POTENTIAL FOR DISPLACEMENT OF STONE FROM THE STRUCTURE ONTO THE ADJACENT UPLAND AREA.
- SPARTINA ALTERNIFLORA TO BE PLANTED ATOP FINAL SAND GRADE. PLANTINGS NOT SHOWN FOR CLARITY. SEE SHEETS CE101 AND CE102 FOR PLANTING LIMITS.



US Army Corps of Engineers
PHILADELPHIA DISTRICT

DATE	BY	DESCRIPTION

ISSUED/REVISIONAL DATE: 06/10 JUNE 2023	ISSUED/REVISIONAL NUMBER: 1
DESIGNED BY: JAC	DESIGNED BY: JAC
CHECKED BY: DAN	CHECKED BY: DAN
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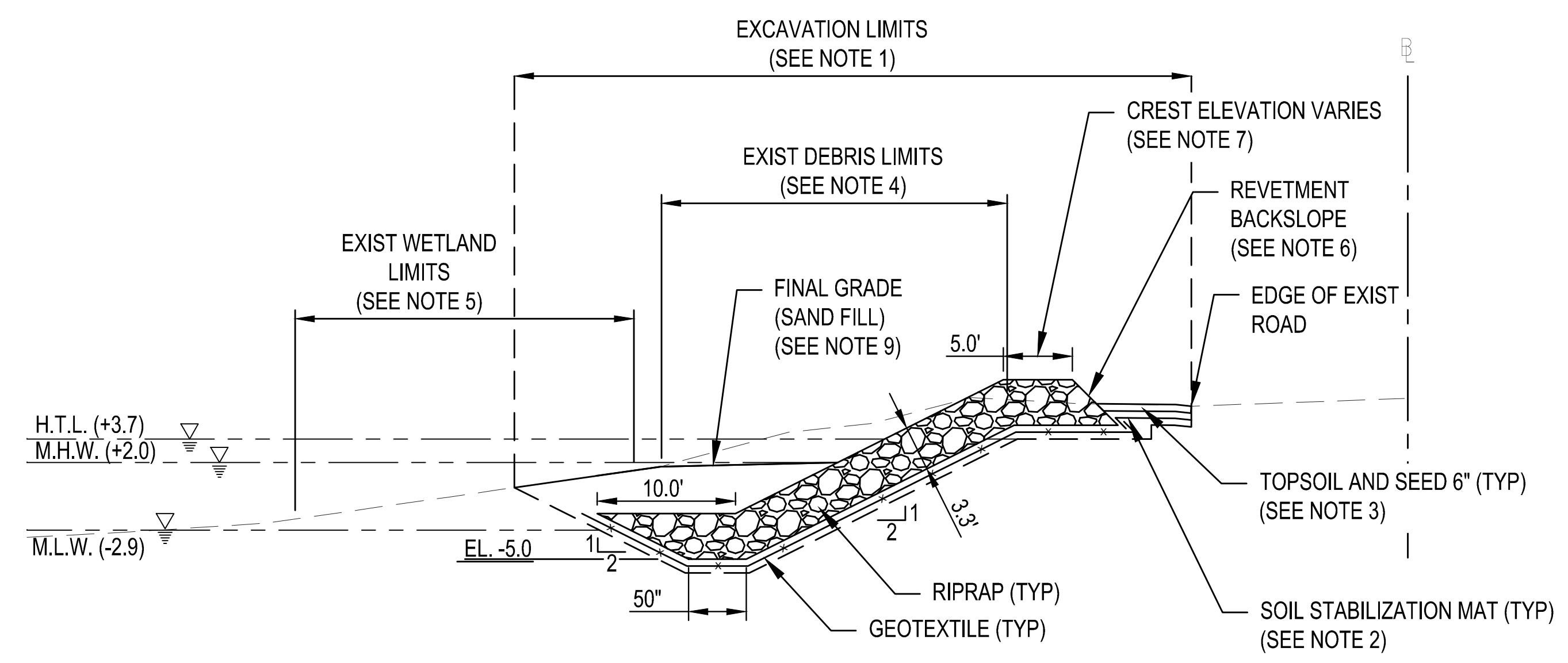
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

DELAWARE AVENUE REVETMENT
CAPE MAY COUNTY, NEW JERSEY

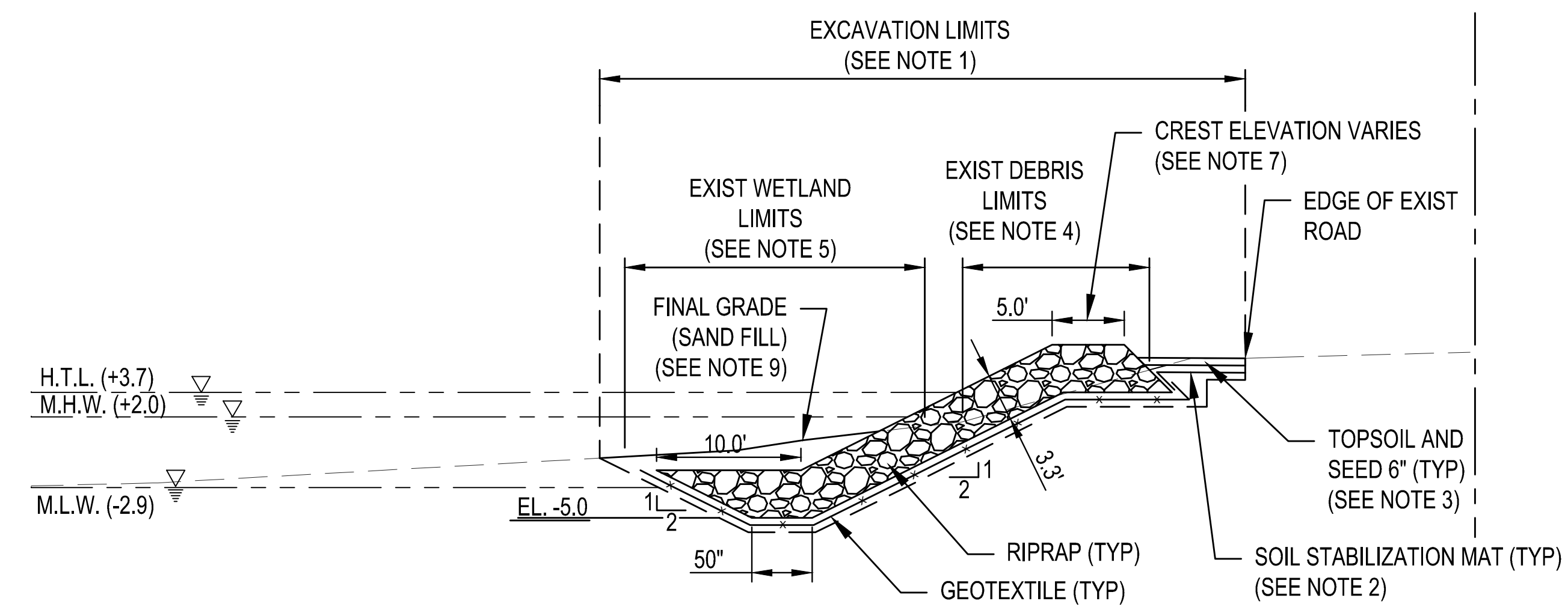
TYPICAL SECTIONS

SHEET NUMBER

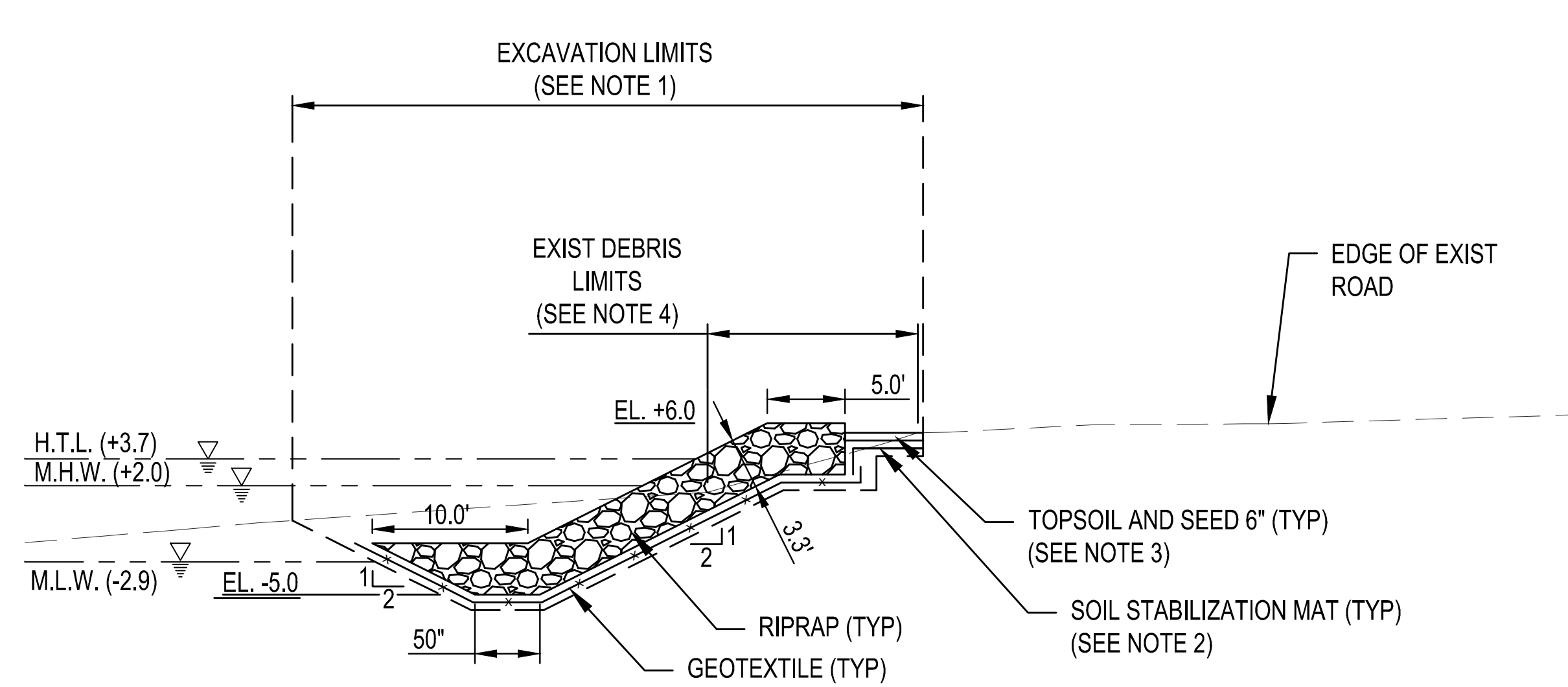
C-301



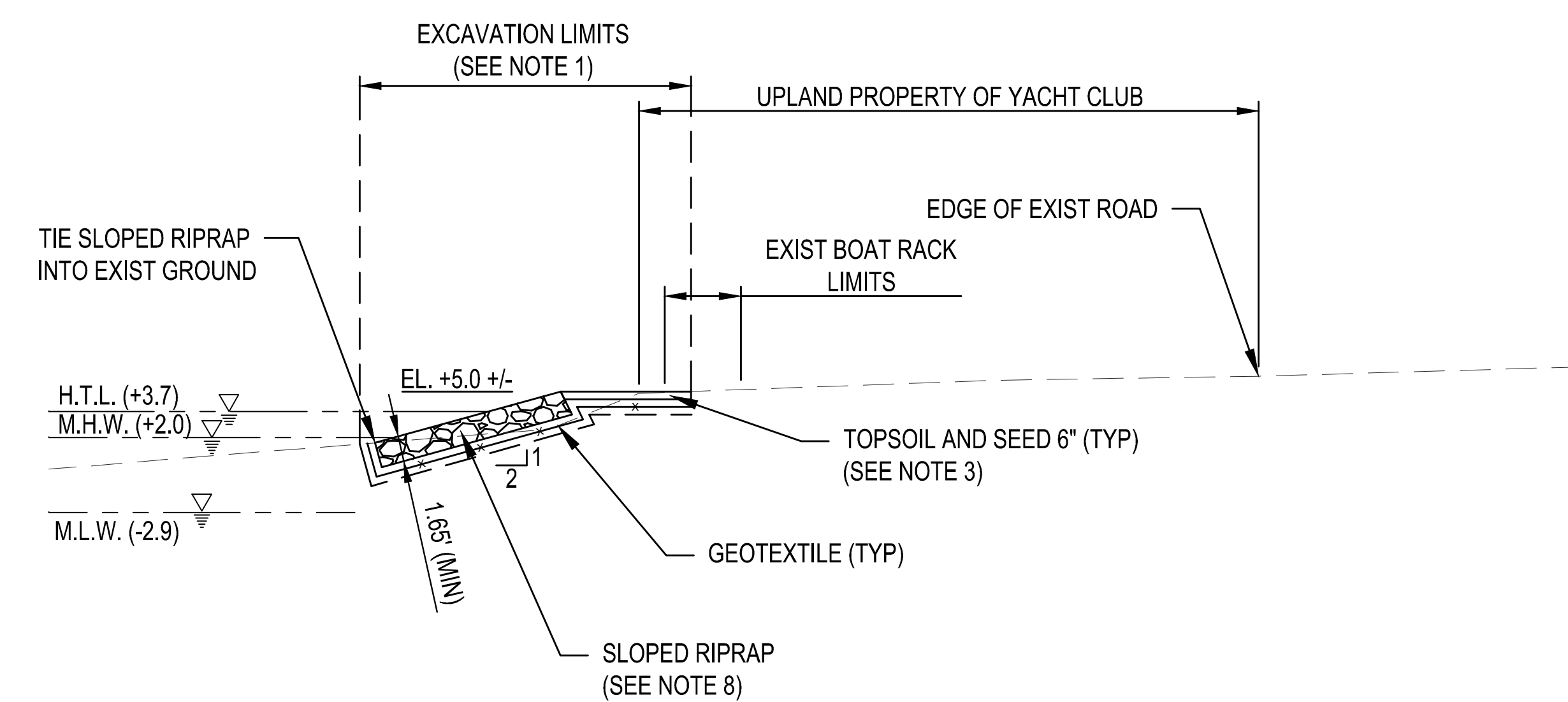
1 TYPICAL SECTIONS - STA. 18+90 TO STA. 20+10
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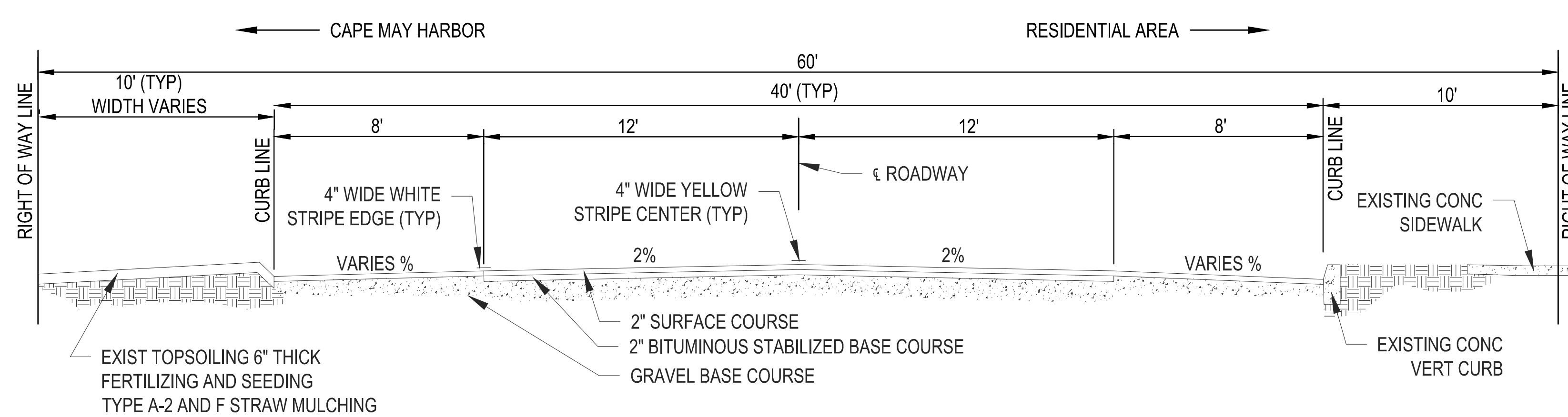
2 TYPICAL SECTIONS - STA. 20+10 TO STA. 22+05
NTS



3 TYPICAL SECTIONS - STA. 22+05 TO STA. 22+75
NTS



4 TYPICAL SECTIONS - STA. 22+75 TO STA. 23+42
NTS



5 TYPICAL SECTIONS - STA. 0+50 TO STA. 22+05 - PAVEMENT SECTION
NTS

NOTES:

- SEE NOTE 1 ON SHEET C-302.
- SOIL STABILIZATION MAT SHALL BE INSTALLED BENEATH THE PROPOSED TOPSOIL AREA. THIS MAT SHALL ACHIEVE A MINIMUM OF 1 FOOT OVERLAP OF THE PROPOSED REVETMENT GEOTEXTILE. OVERLAP SHOWN IS APPROXIMATE.
- CONTRACTOR SHALL PLACE 6" OF TOPSOIL AND SEED AT THE LOCATIONS SHOWN. TOPSOIL FINAL GRADE SHALL FOLLOW THE EXISTING GROUND AS SHOWN.
- EXISTING DEBRIS VARIES THROUGHOUT PROJECT SITE. SEE SITE PLAN FOR DESCRIPTION OF TYPES OF MATERIAL. THE CONTRACTOR SHALL ASSUME A MINIMUM OF 1H:1V SLOPE WILL BE REQUIRED TO REMOVE OBJECTS AT THE EDGE OF THE DEBRIS LIMITS WHERE EXCAVATION IS NECESSARY. IT SHALL ALSO BE ASSUMED THAT ALL EXCAVATED MATERIAL FROM WITHIN THE DEBRIS LIMITS WILL BE REPLACED WITH IMPORTED SAND FILL. IF THE CONTRACTOR ENCOUNTERS BITUMINOUS CHUNKS OR CLUSTERS WITHIN THE DEBRIS LIMITS THAT IS TO BE EXCAVATED, IT SHALL BE REMOVED IN ITS ENTIRETY TO MINIMIZE THE BREAKING AND SPREAD OF BITUMINOUS PARTICLES.
- THE CONTRACTOR SHALL ASSUME THAT ALL MATERIAL EXCAVATED FROM WITHIN THE WETLANDS LIMITS WILL NOT BE SUITABLE FOR BACKFILL. THIS MATERIAL WILL BE REPLACE WITH SAND EXCAVATED FROM THE SITE OR IMPORTED SAND FILL. THE CONTRACTOR SHALL ASSUME A MINIMUM 1H:1V SLOPE WILL BE REQUIRED FROM THE EDGE OF THE WETLANDS LIMITS SHOWN TO REMOVE VEGETATION WITHIN THE LIMIT OF EXCAVATION.
- RIPRAP USED IN REVETMENT BACKSLOPE BETWEEN STA. 13+58 AND STA. 22+05 SHALL BE EQUAL TO OR GREATER THAN THE SPECIFIED W50. CONTRACTOR SHALL DO THIS TO REDUCE THE POTENTIAL FOR DISPLACEMENT OF STONE FROM THE STRUCTURE ONTO THE ADJACENT UPLAND AREA OR ROADWAY.
- REVTMENT CREST ELEVATION BETWEEN STA. 18+90 AND STA. 21+10 VARIES BETWEEN EL. +8.0 AND EL. +7.0. REVETMENT CREST ELEVATION BETWEEN STA. 21+10 AND 22+05 VARIES BETWEEN EL. +7.0 AND EL. +6.0 NAVD88. SEE SHEETS C-103 AND C-104 FOR CREST ELEVATION TRANSITION LOCATIONS.
- RIPRAP USED IN THE SLOPED RIPRAP TERMINUS OF THE PROJECT SHALL BE EQUAL TO OR GREATER THAN THE SPECIFIED W50. CONTRACTOR SHALL CONSTRUCT THIS TO REDUCE THE POTENTIAL FOR DISPLACEMENT OF STONE FROM THE SLOPE.
- SPARTINA ALTERNIFLORA TO BE PLANTED ATOP FINAL SAND GRADE IN SELECT LOCATIONS. PLANTINGS NOT SHOWN FOR CLARITY. SEE SHEETS CE101 AND CE102 FOR PLANTING LIMITS.

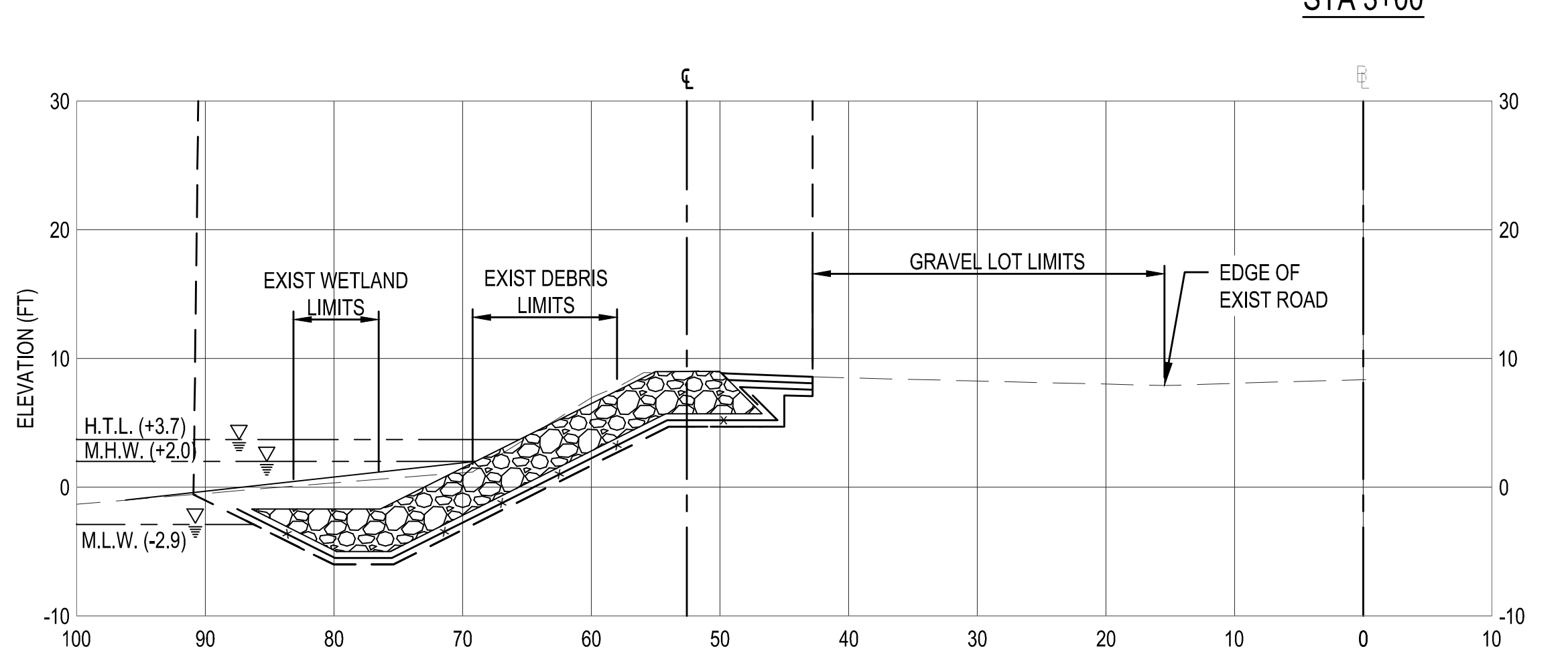
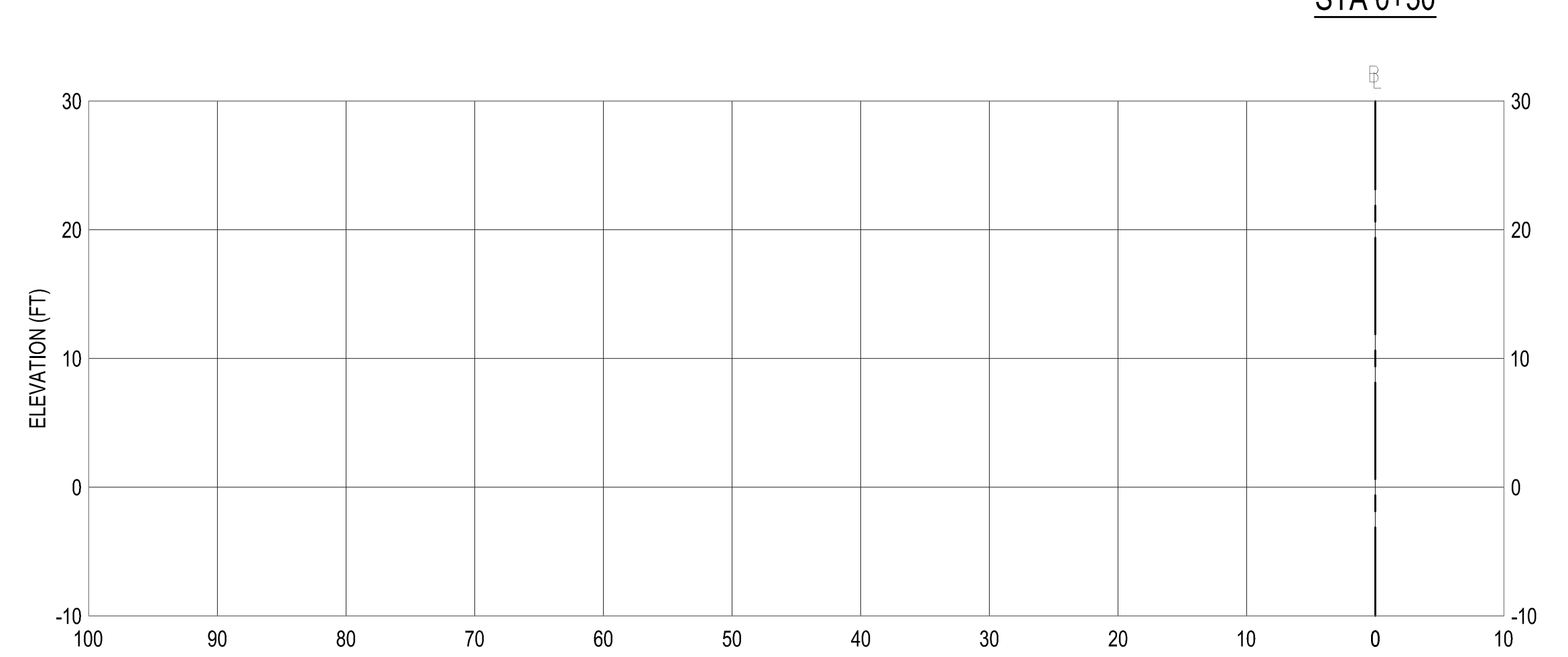
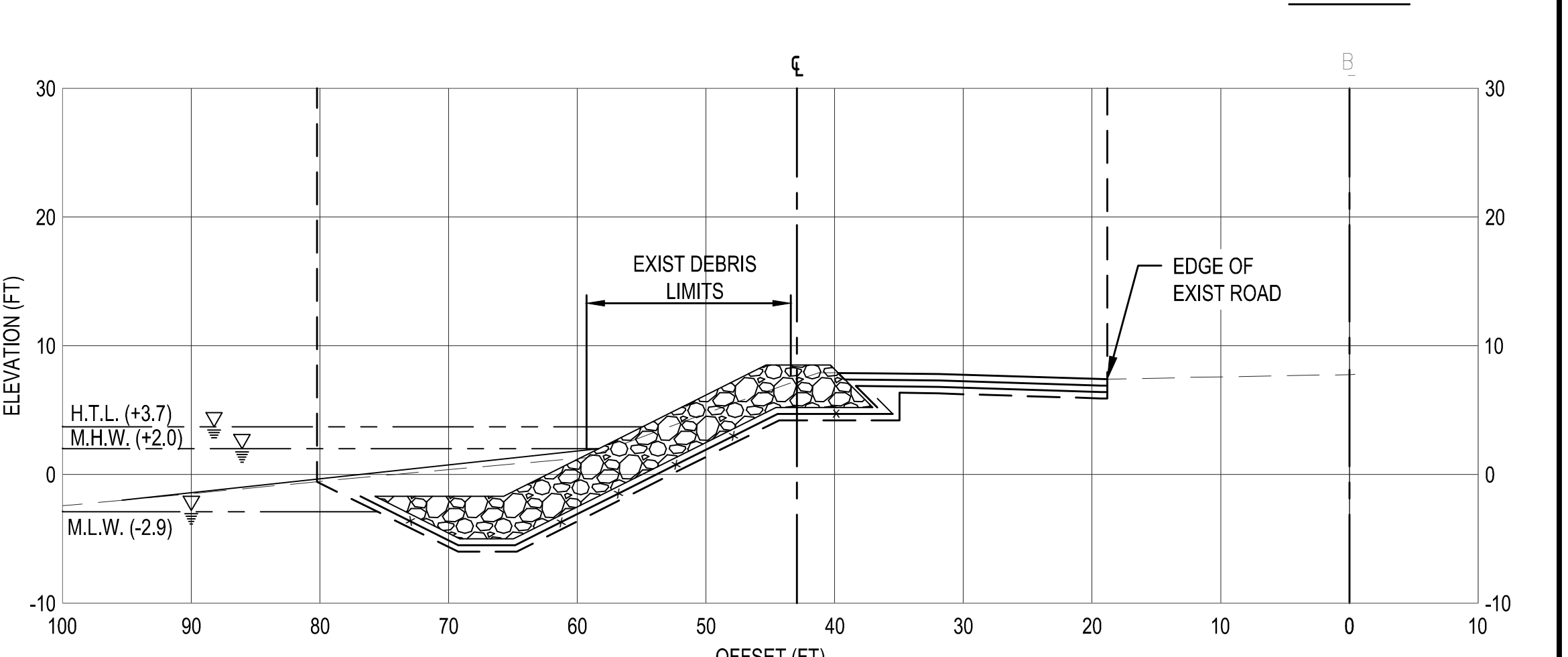
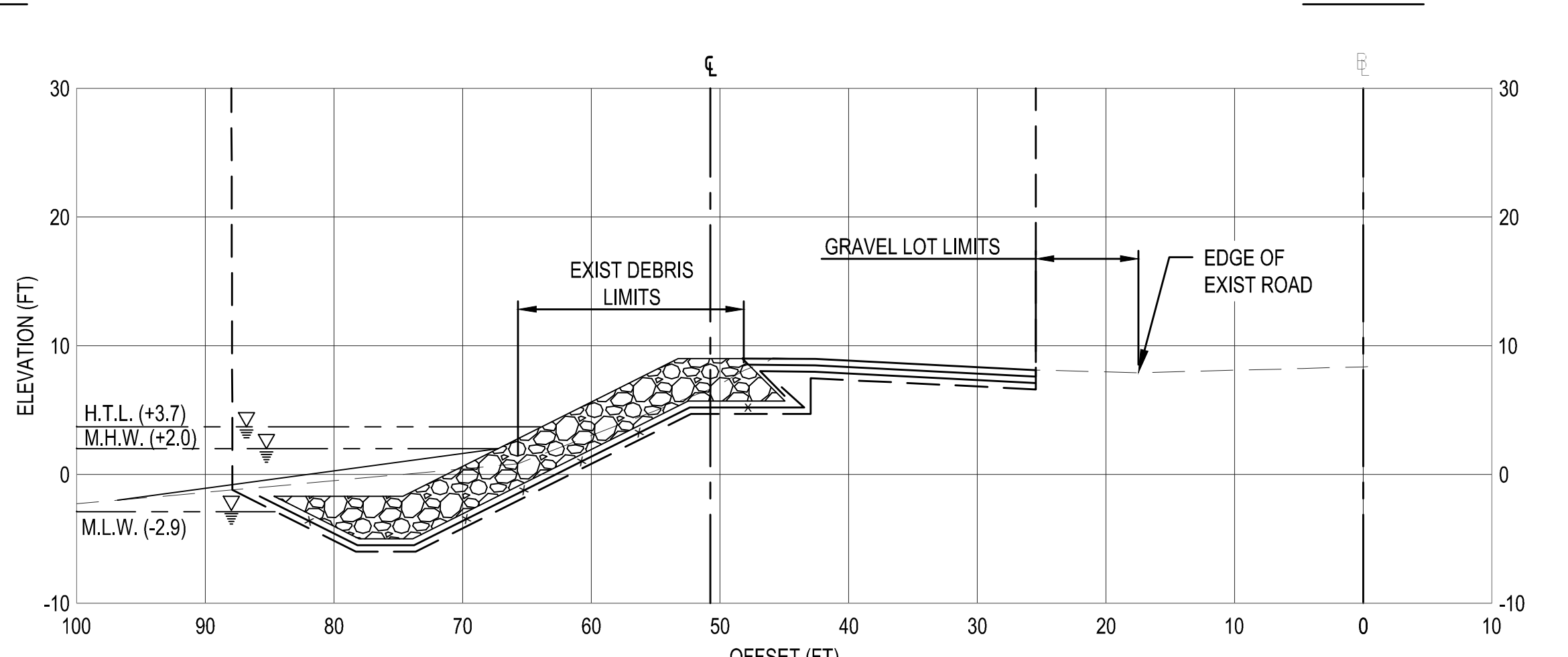
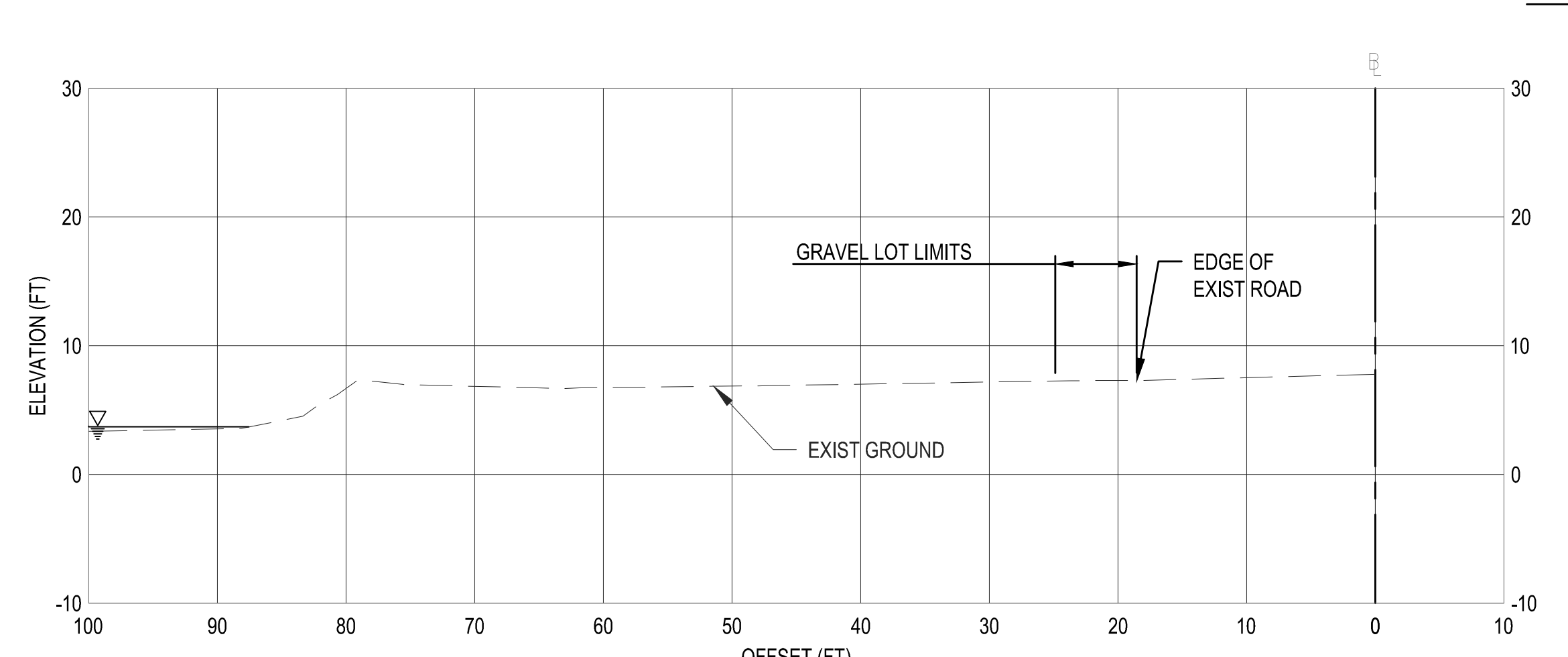
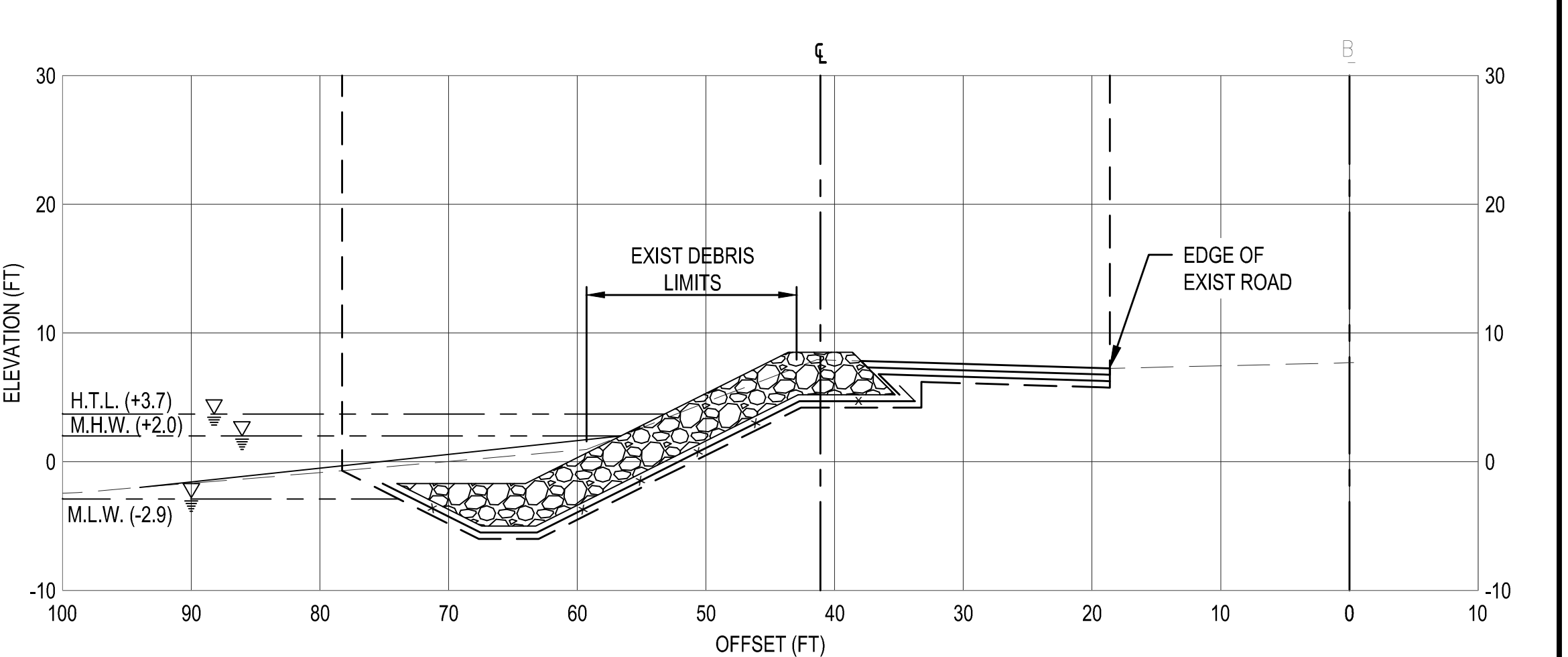
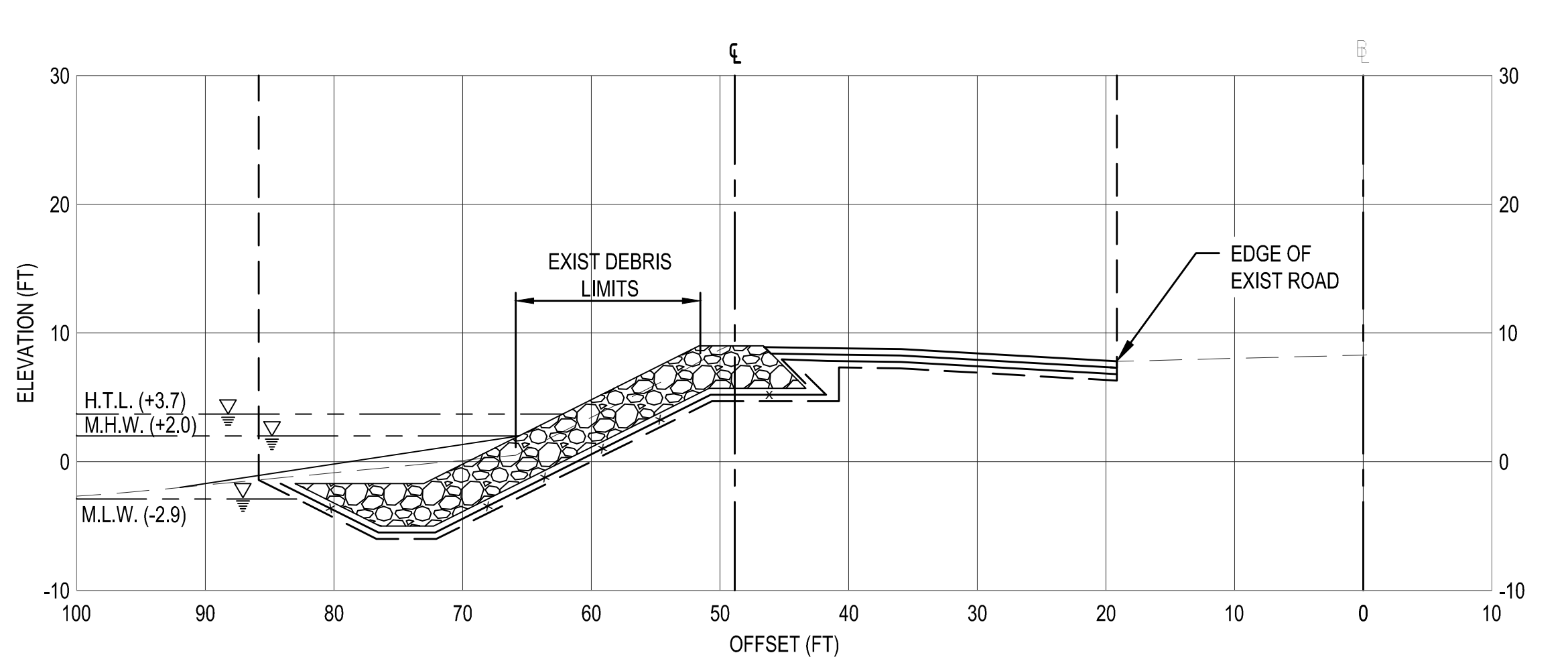
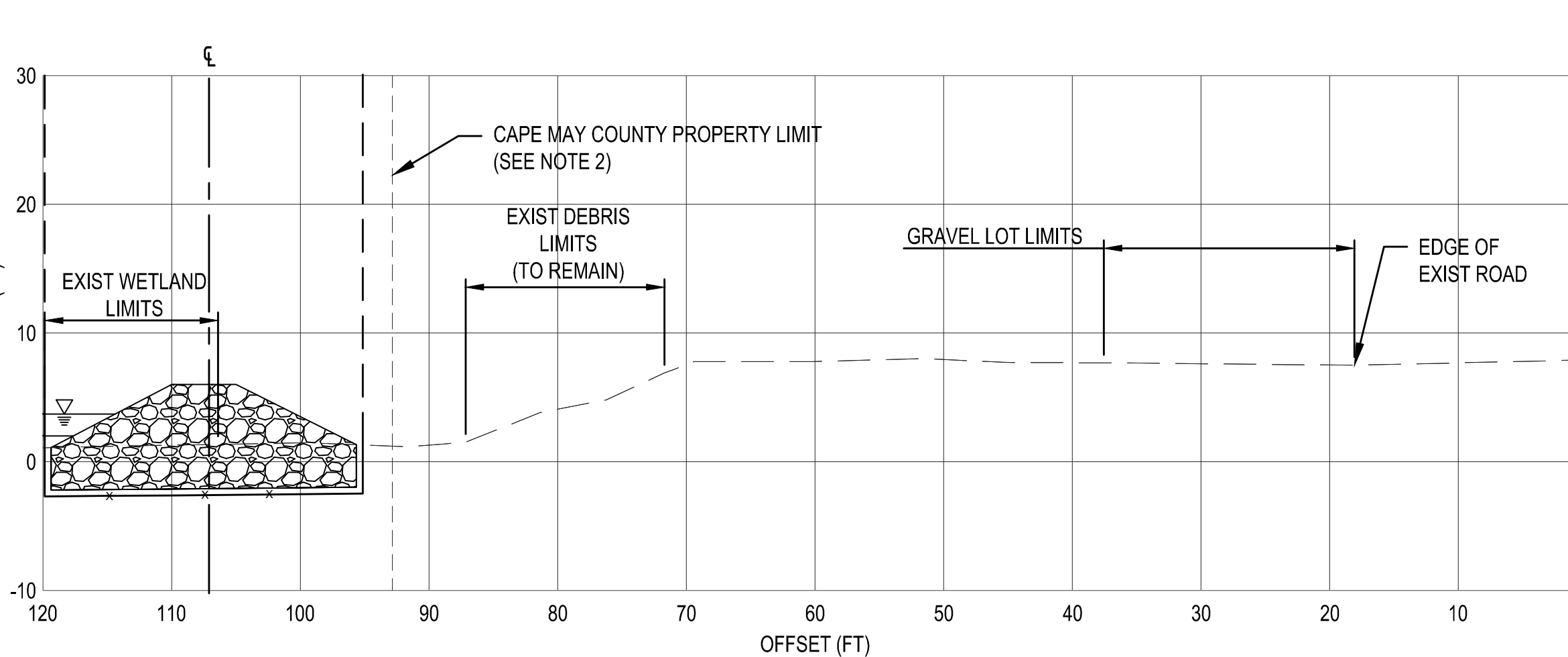
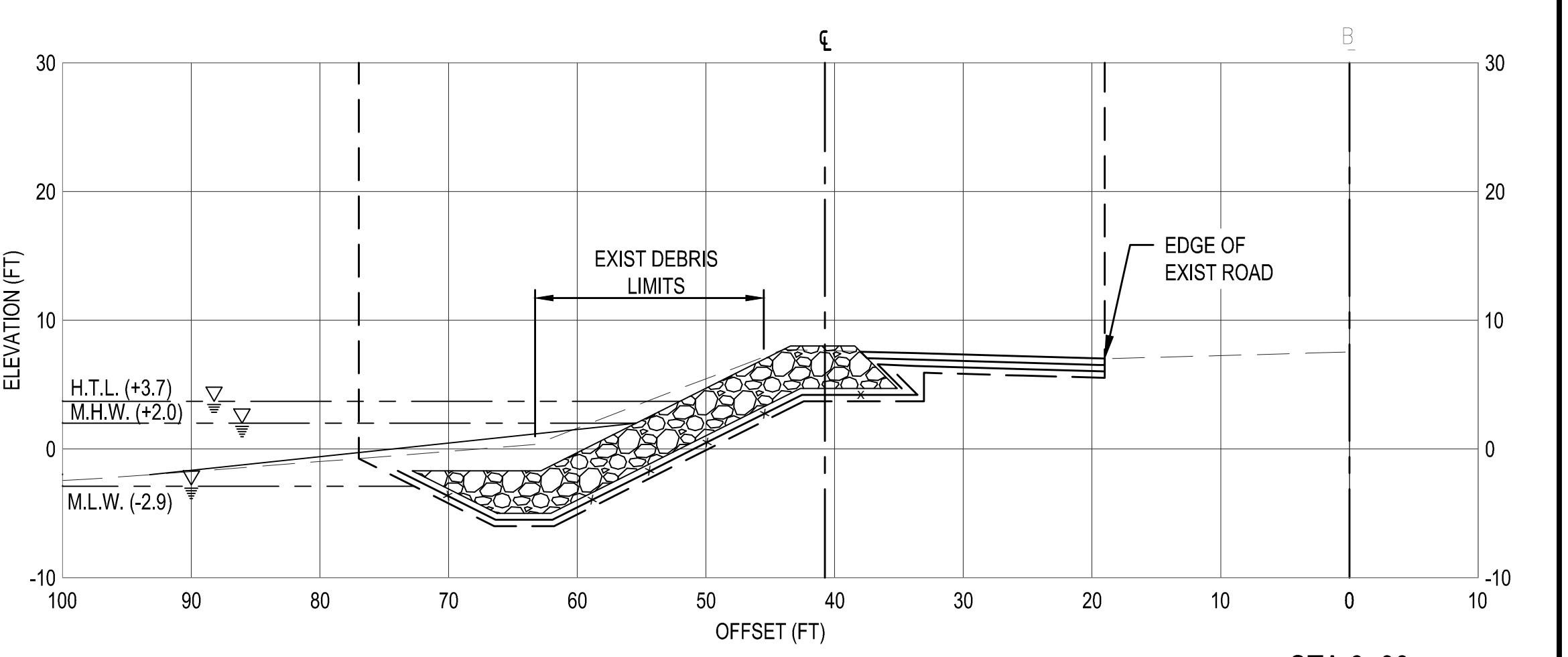
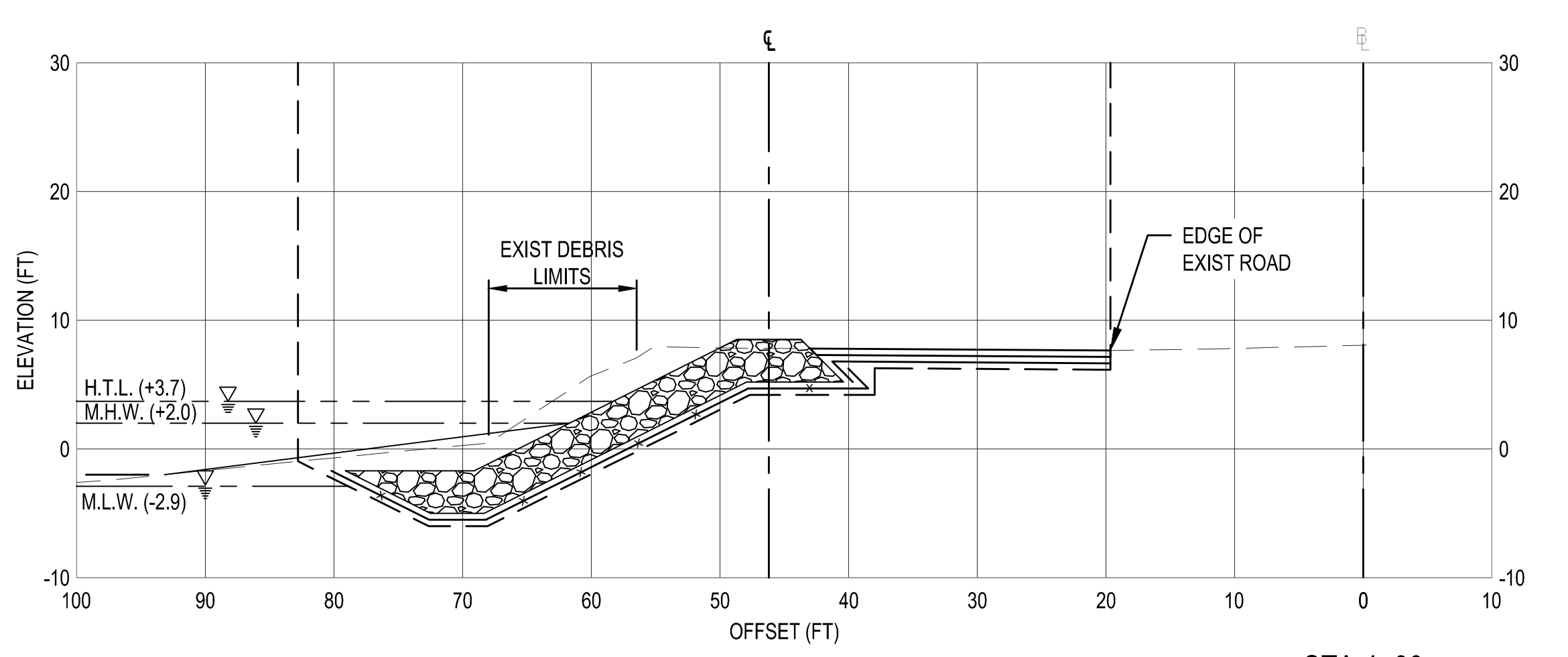
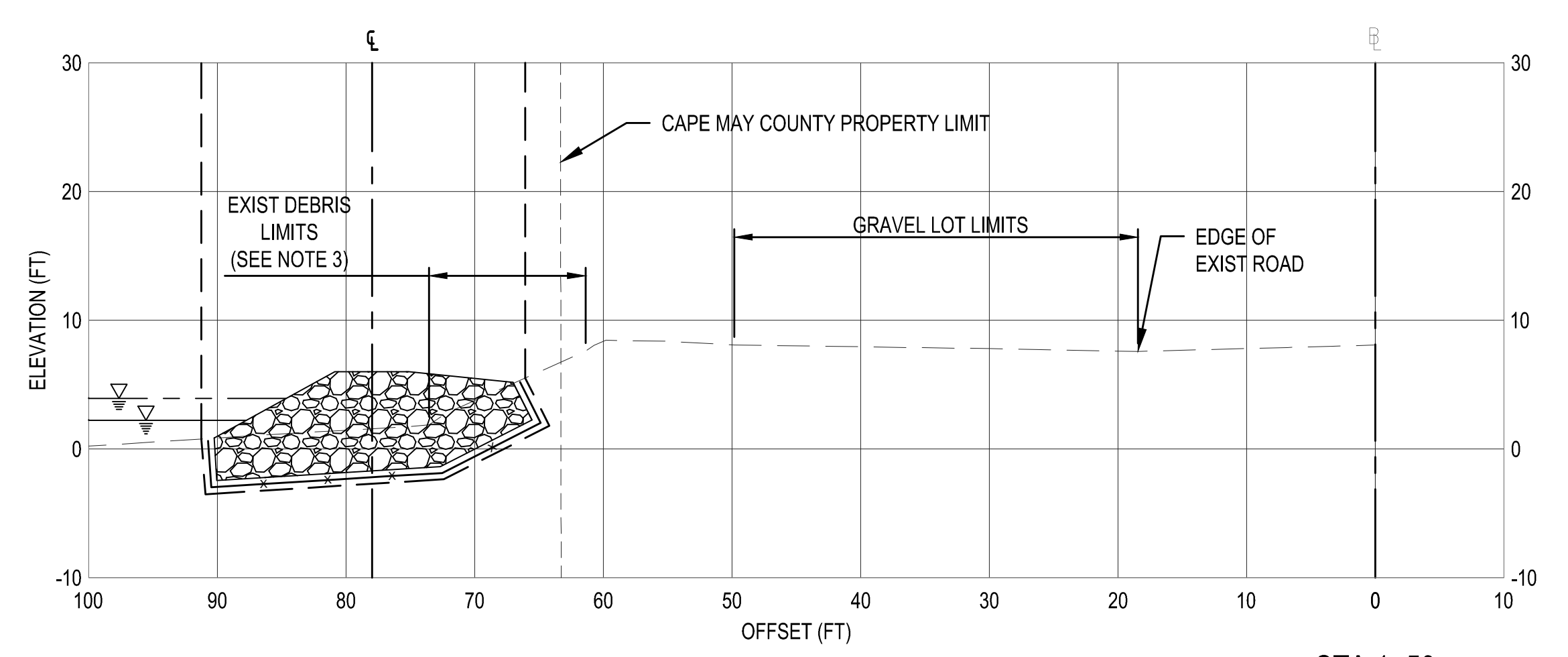
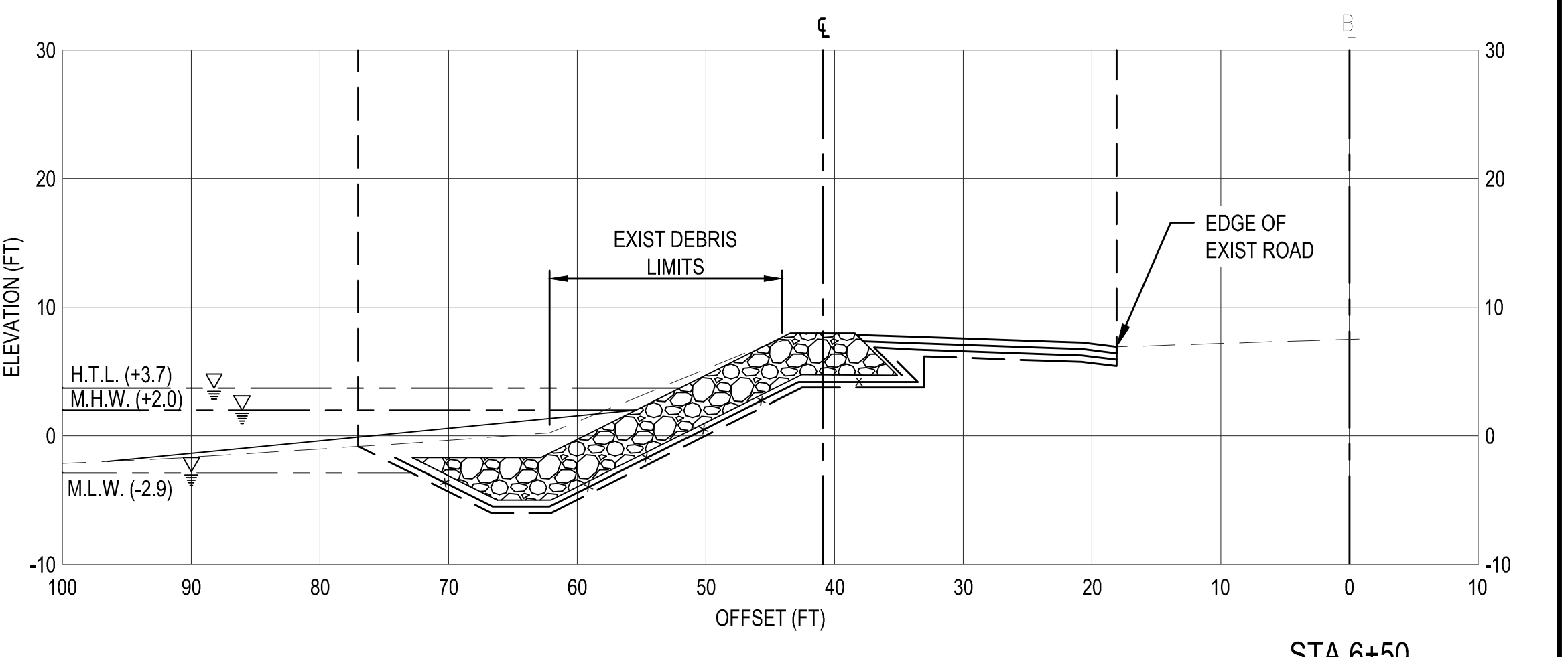
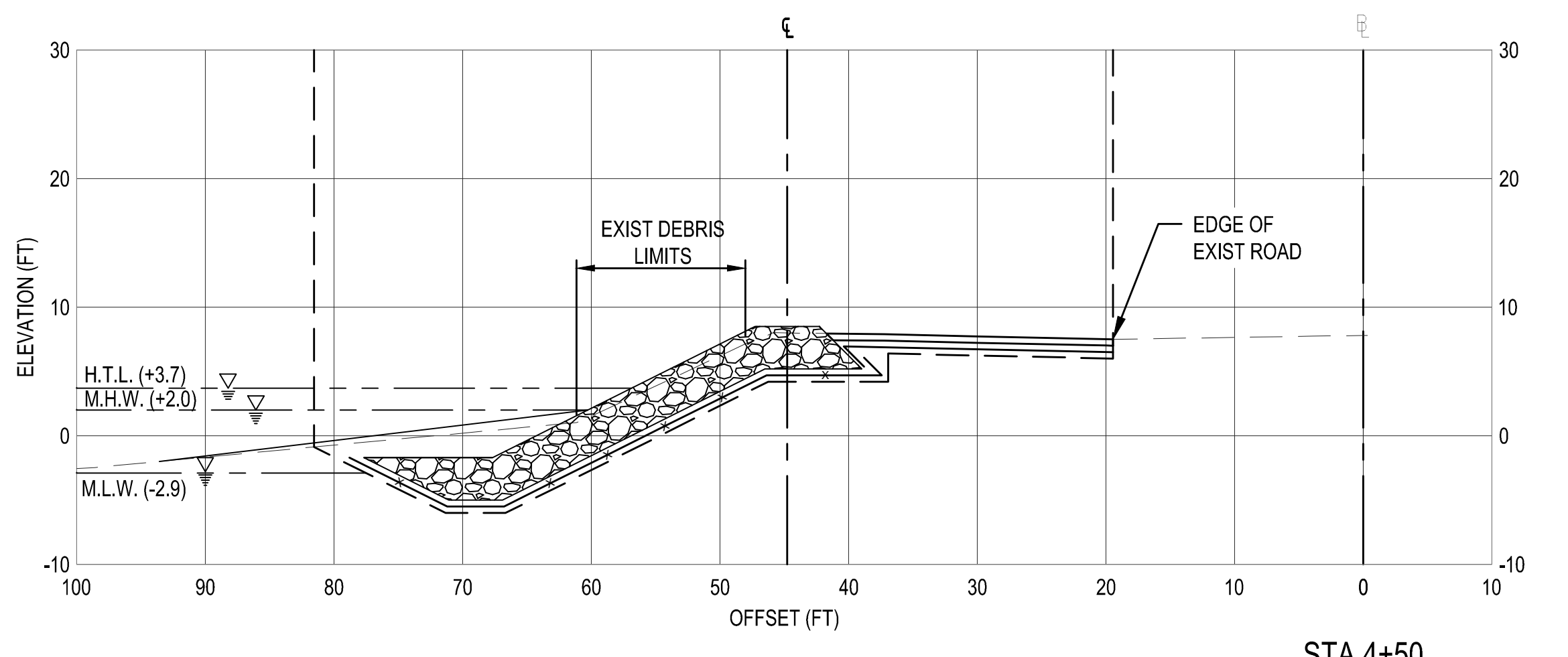
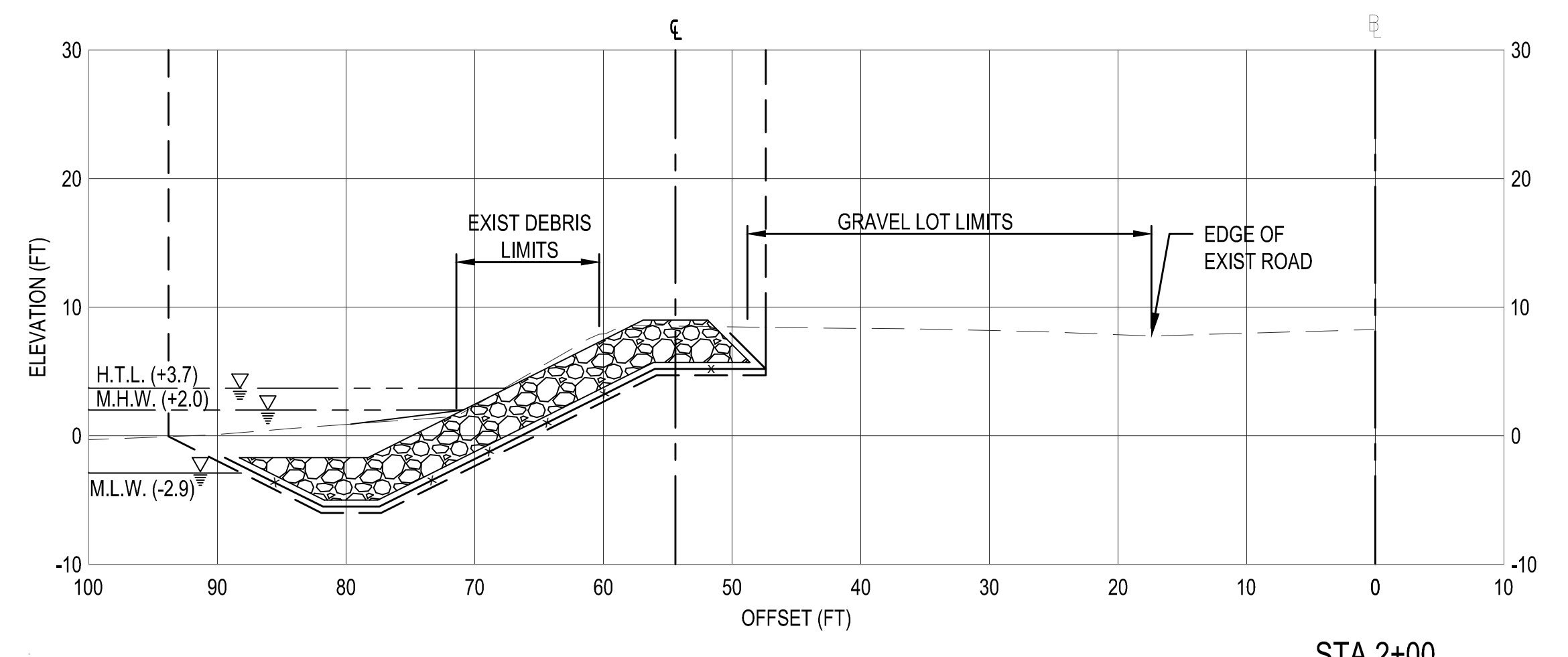
NO.	DATE	BY	DESCRIPTION

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DRAWN BY	JL	CONTRACT NUMBER	
CHECKED BY	DAN		
DESIGNED BY	TEH		
APPROVED BY			

U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT	
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DELAWARE AVENUE REVETMENT CAPE MAY, NEW JERSEY CAPE MAY COUNTY, NEW JERSEY
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TYPICAL SECTIONS
SHEET NUMBER
C-302



NOTES:

- REFER TO SHEET C-001 FOR CROSS SECTION LEGEND.
- APPROXIMATE LIMIT OF CAPE MAY COUNTY PARCEL SHOWN. CONTRACTOR SHALL NOT PERFORM ANY FEATURES OF WORK BEYOND LANDWARD OF THIS LOCATION.
- CONTRACTOR SHALL ONLY REMOVE DEBRIS NECESSARY TO CONSTRUCT RIPRAP SILL. NO EXCAVATION IS TO OCCUR BEYOND CAPE MAY COUNTY PROPERTY LIMITS.

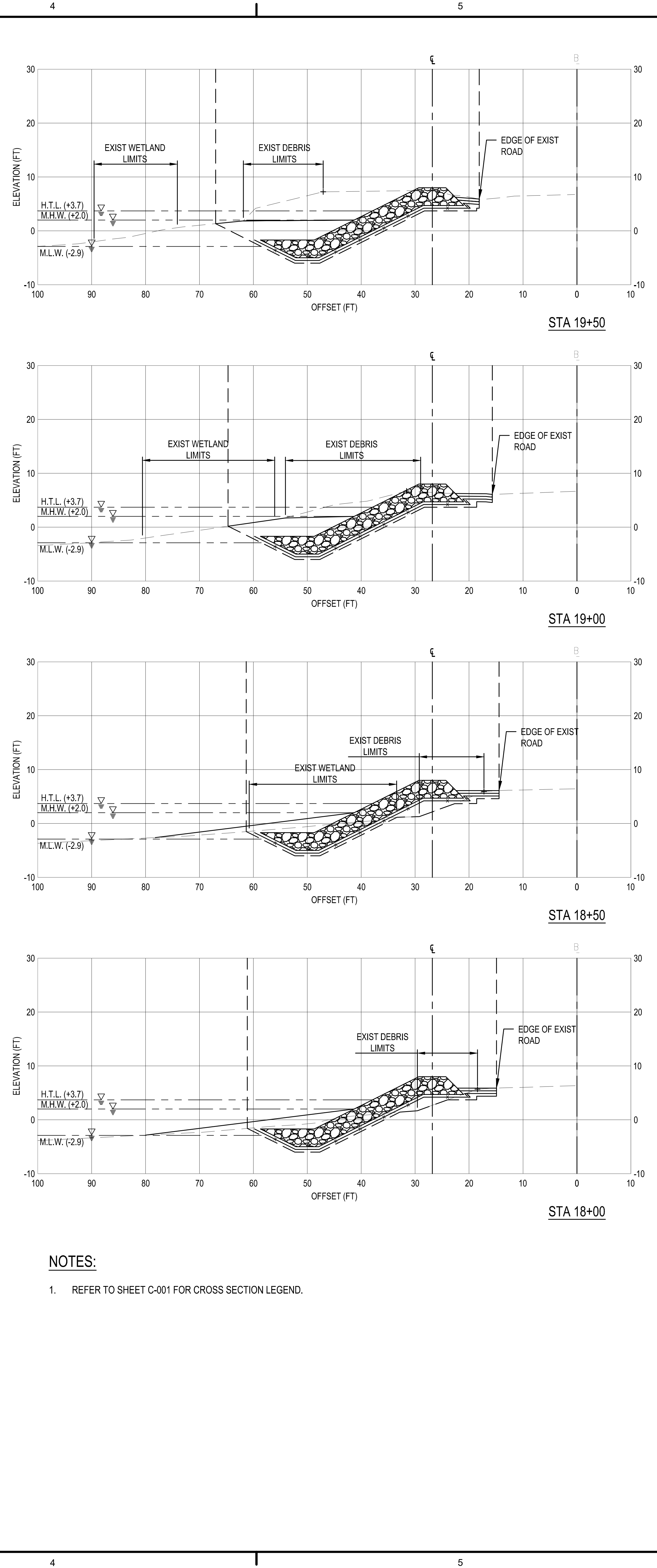
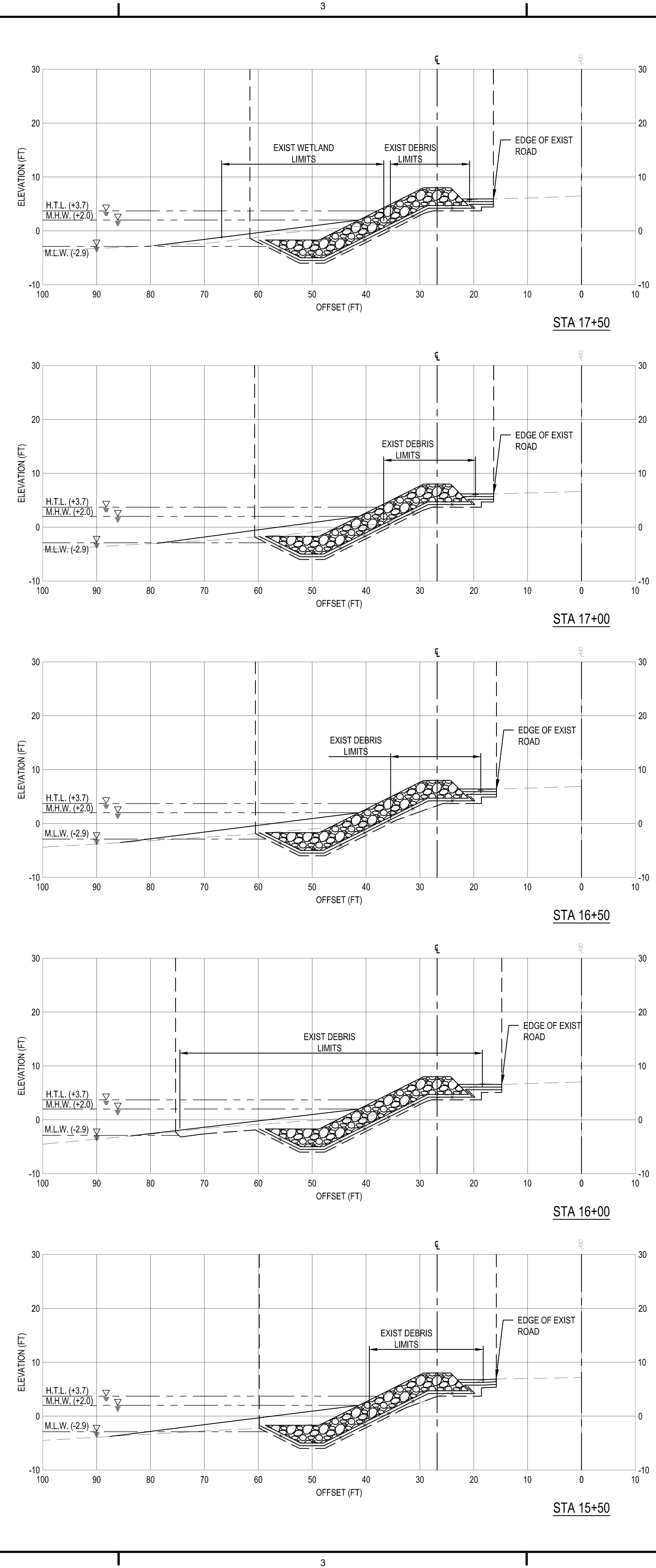
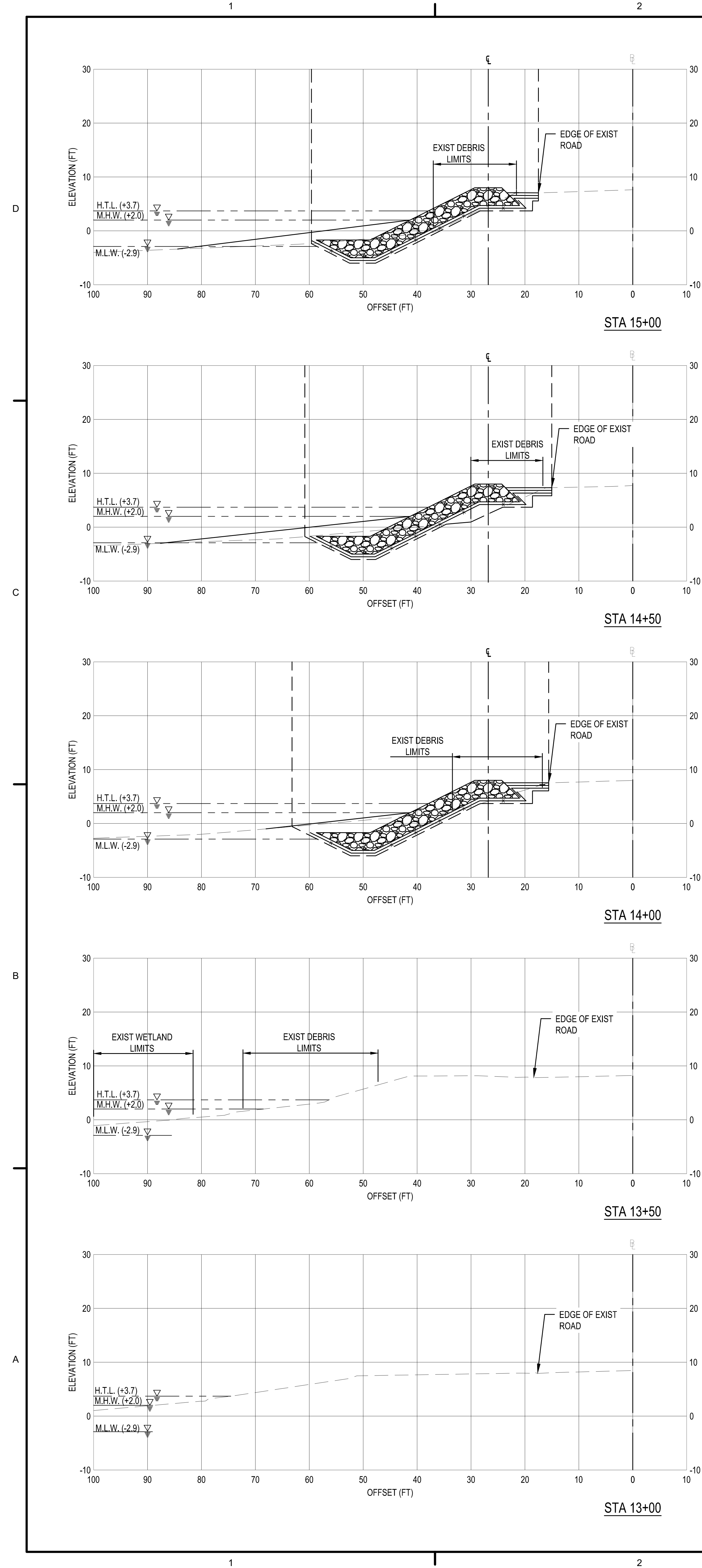
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DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
CROSS SECTIONS - STA. 0+00 TO STA. 6+50



US Army Corps of Engineers
PHILADELPHIA DISTRICT



NOTES:
1. REFER TO SHEET C-001 FOR CROSS SECTION LEGEND.

DATE	BY	DESCRIPTION

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DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
CROSS SECTIONS - STA. 13+00 TO STA. 19+50

SHEET NUMBER
C-305



US Army Corps of Engineers
PHILADELPHIA DISTRICT

NO.	DATE	DESCRIPTION

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DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
CROSS SECTIONS - STA. 20+00 TO STA. 24+00

SHEET NUMBER

C-306

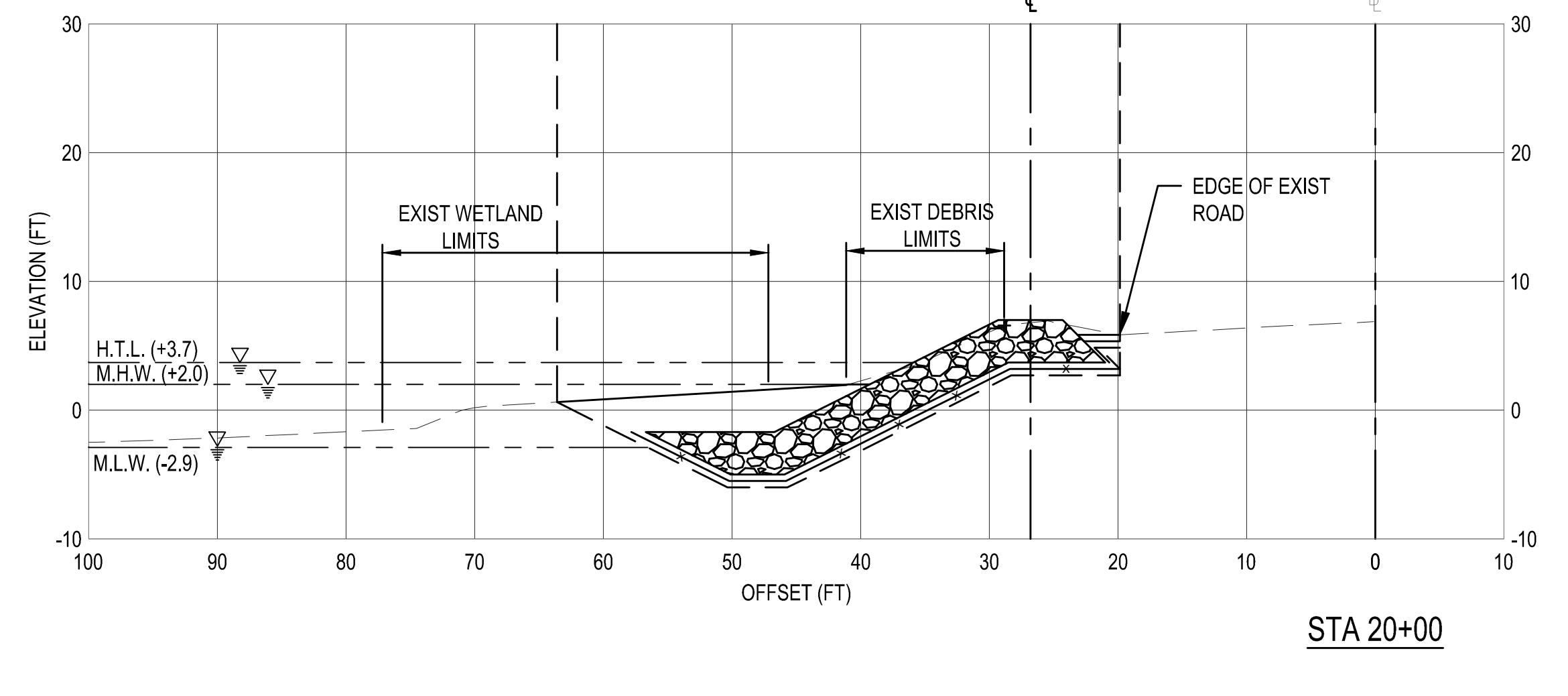
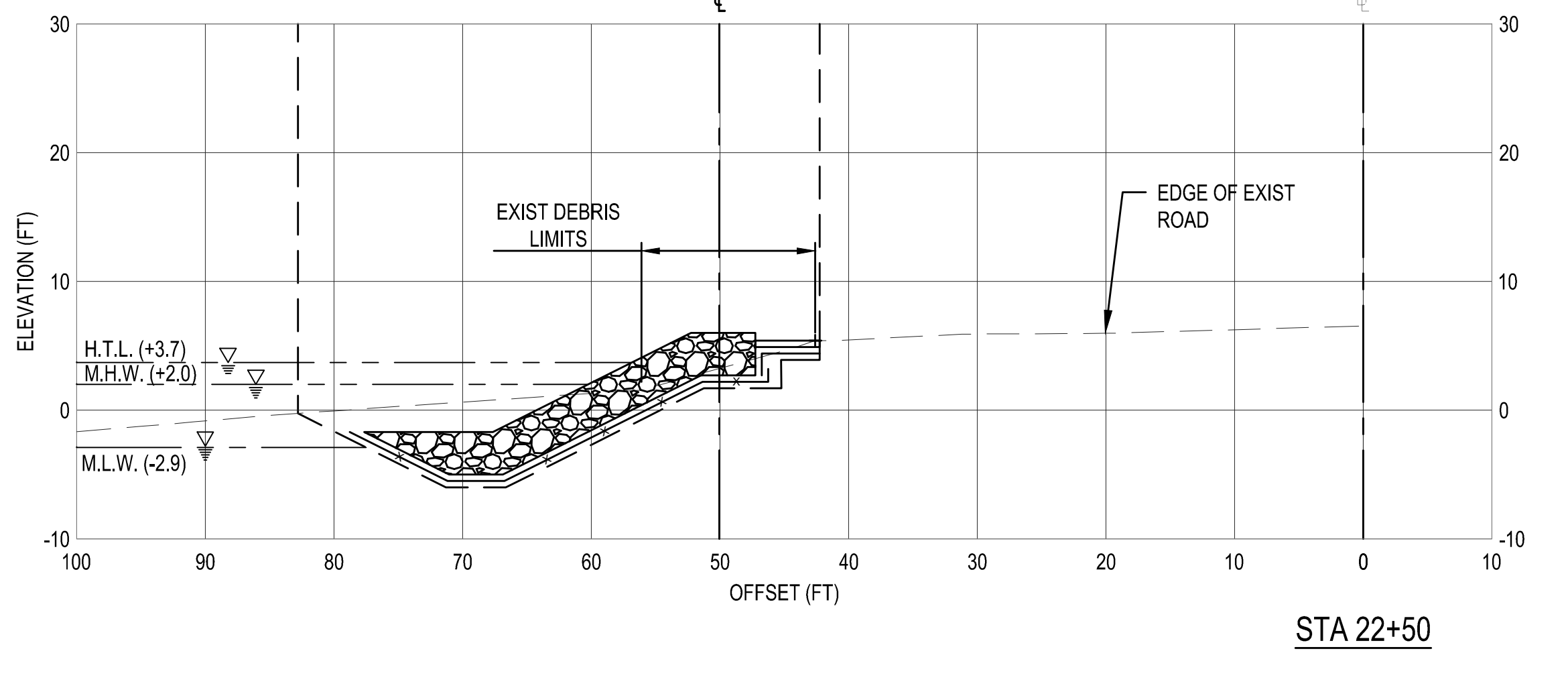
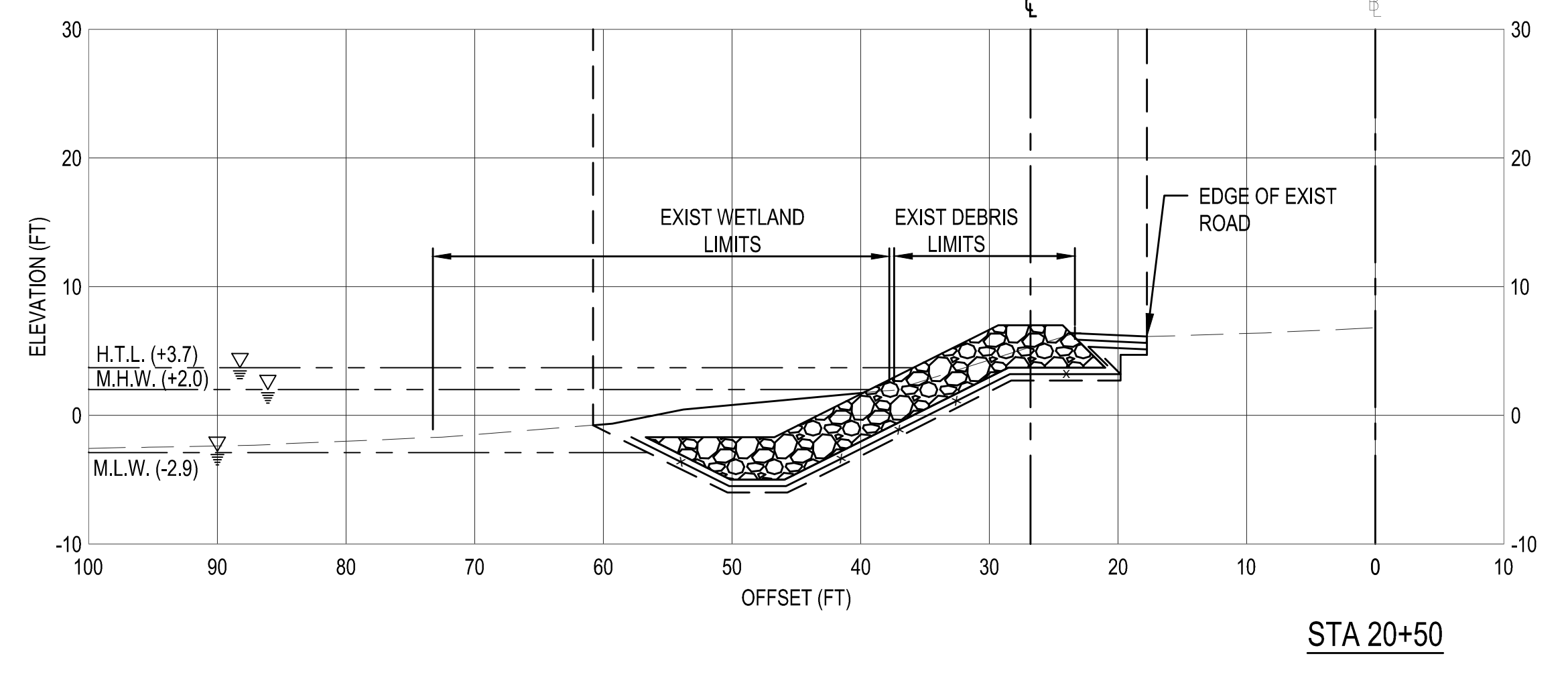
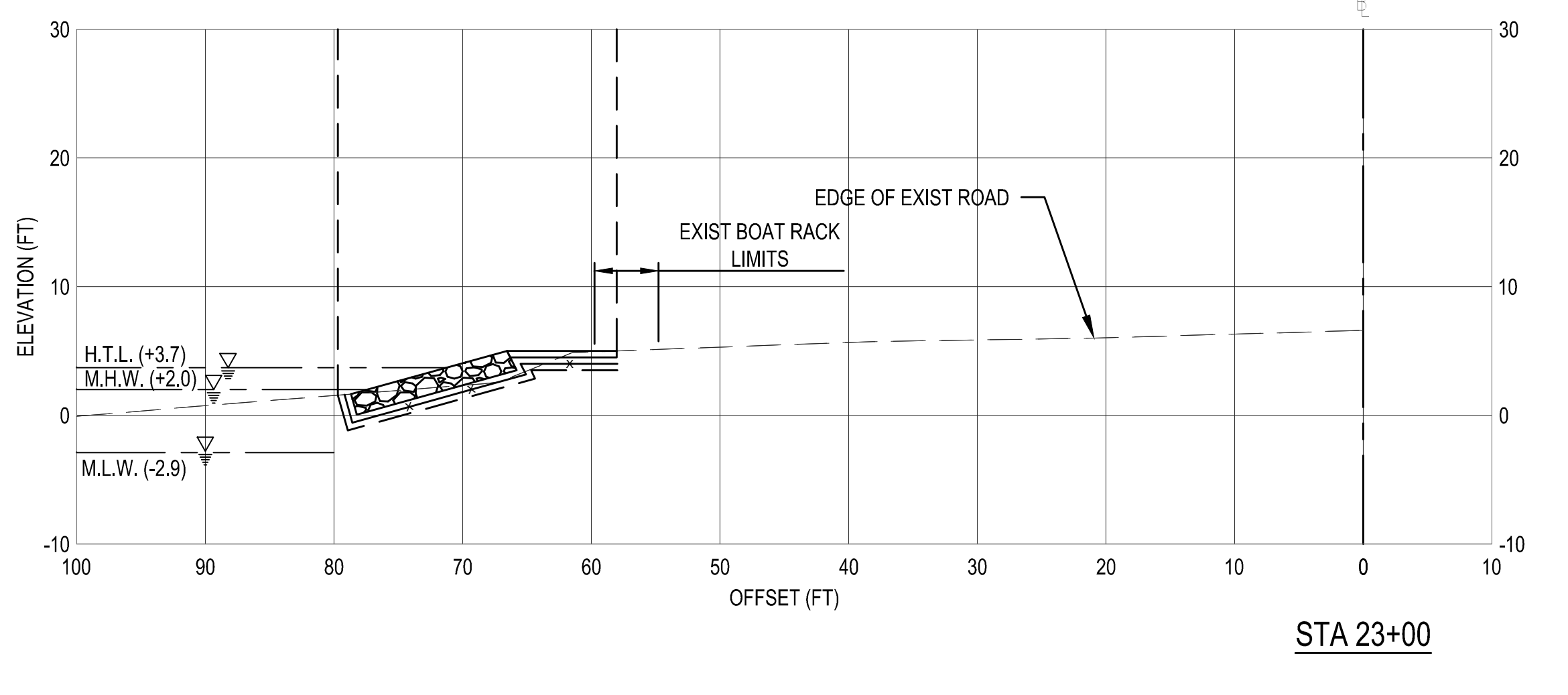
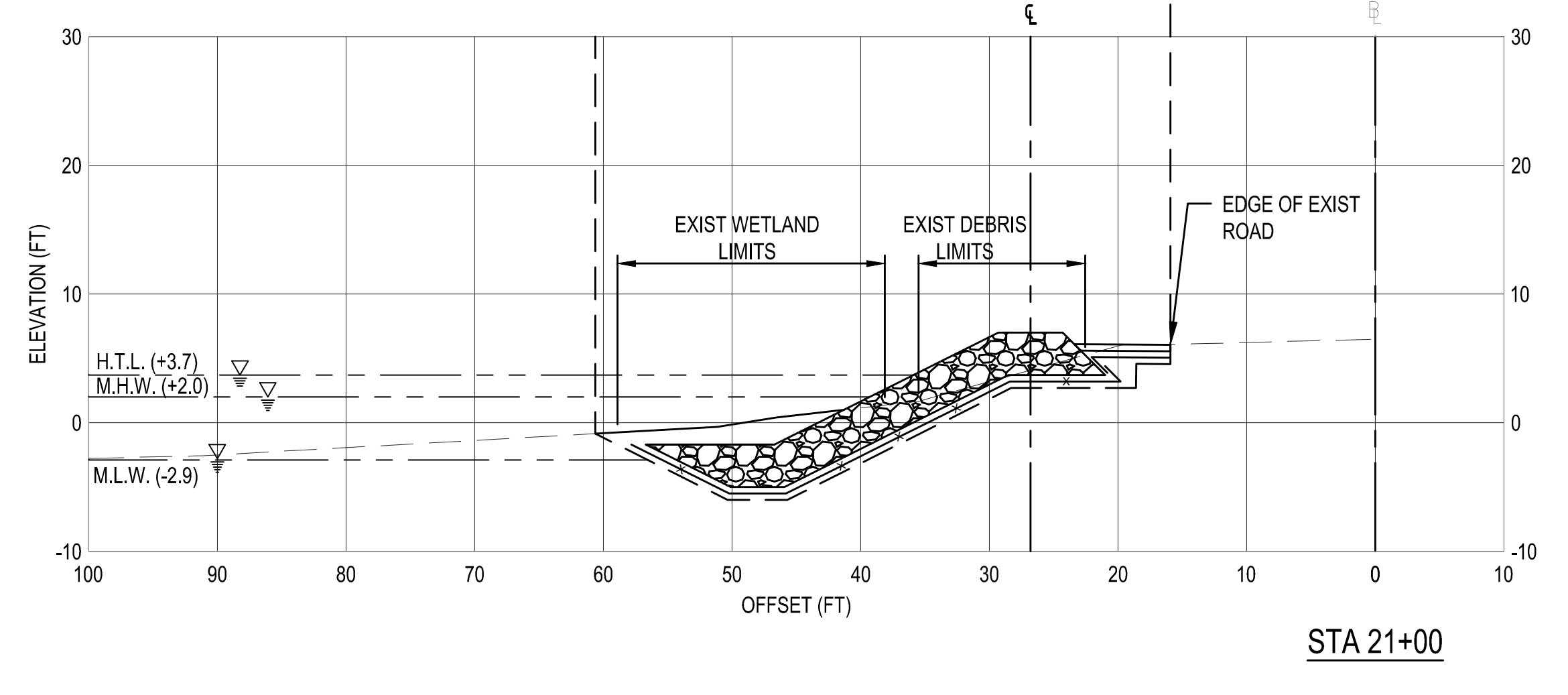
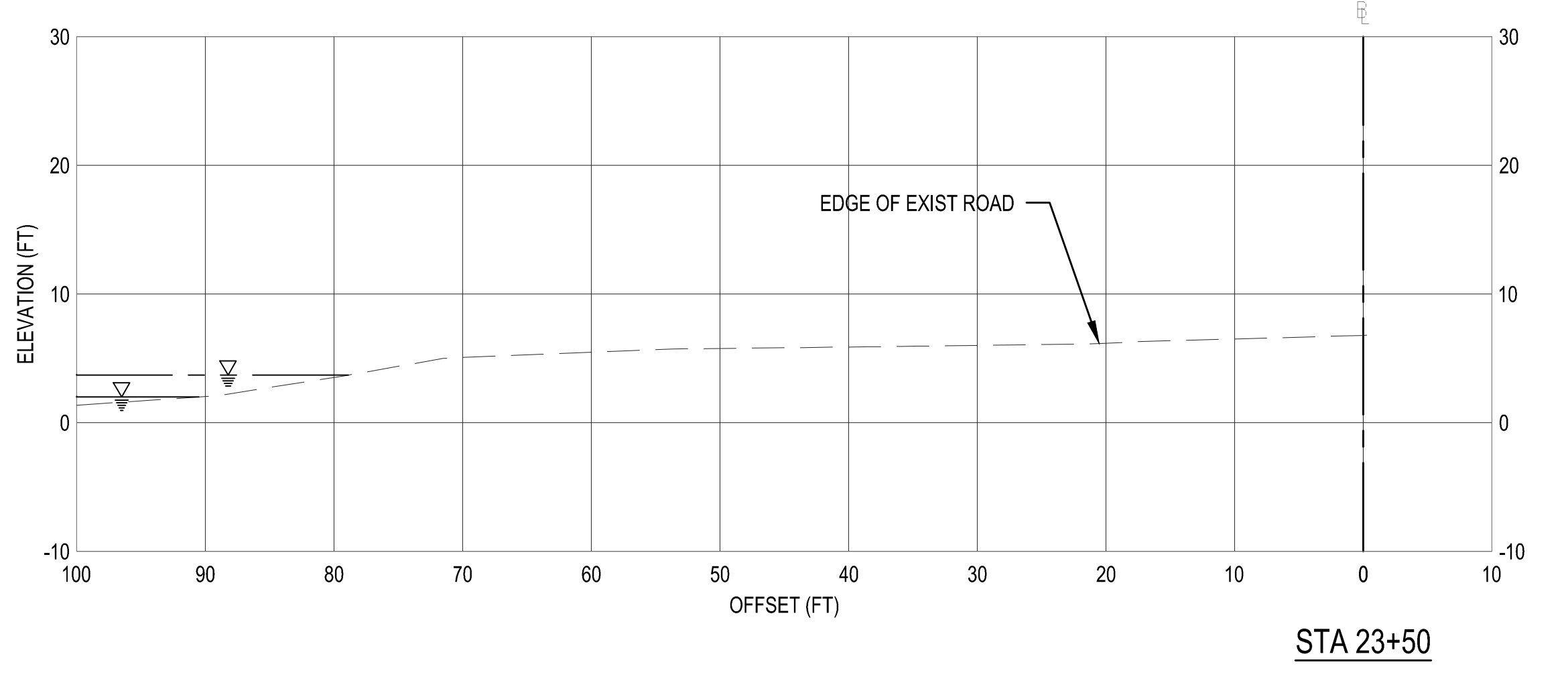
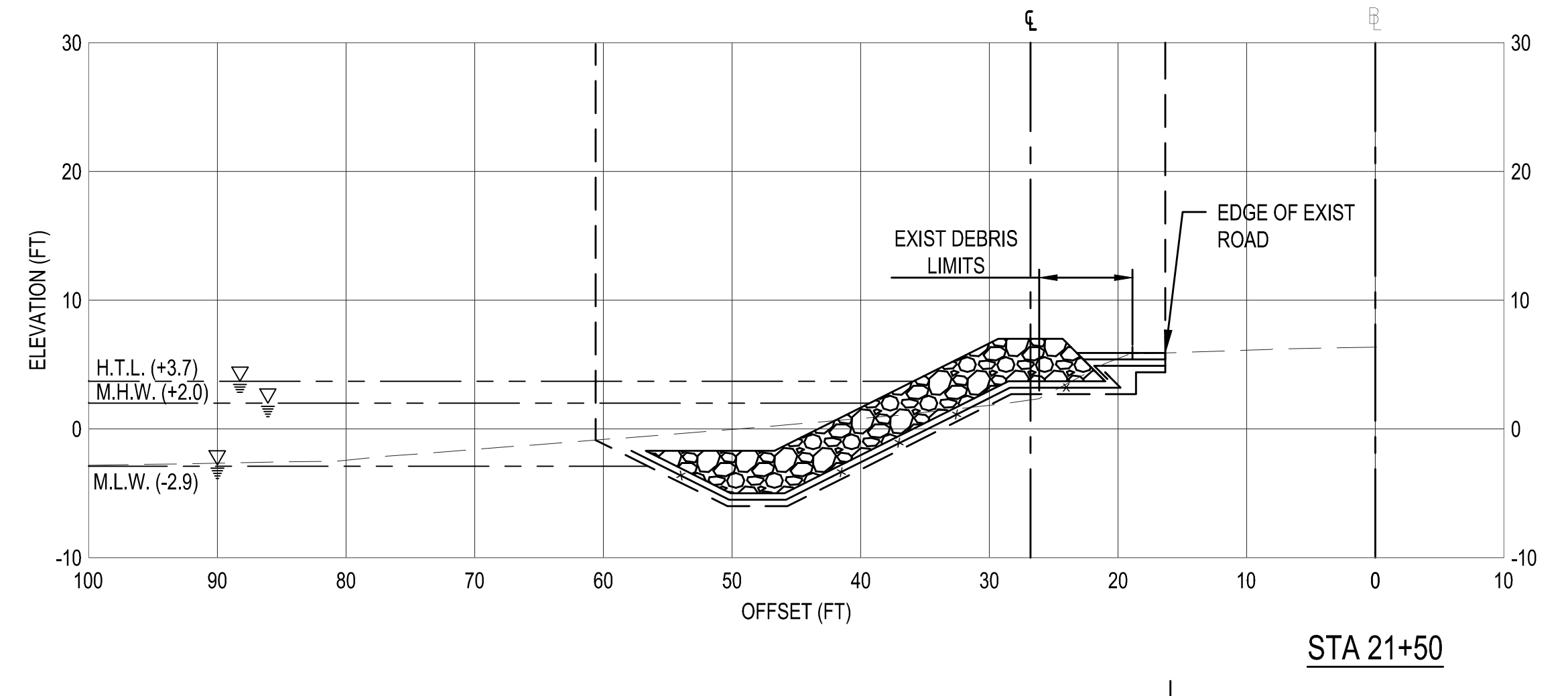
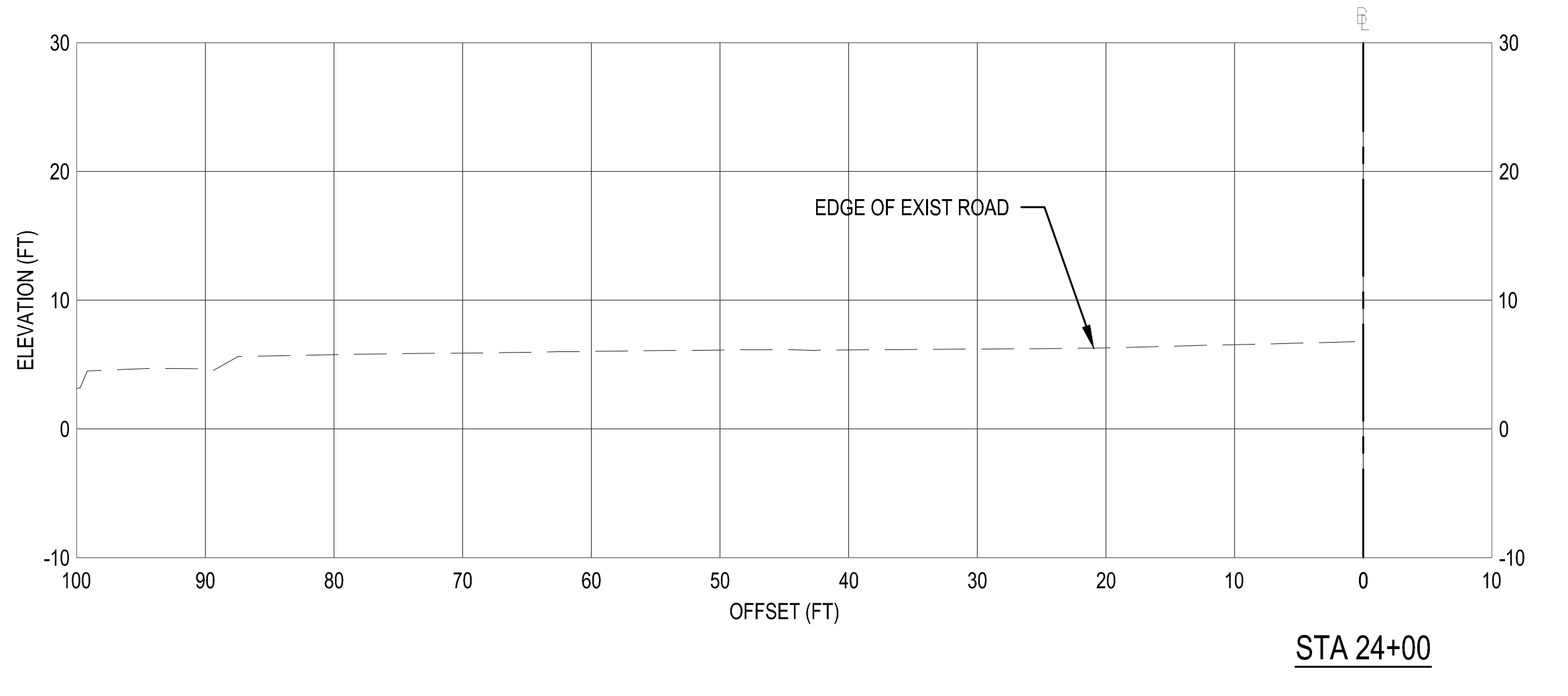
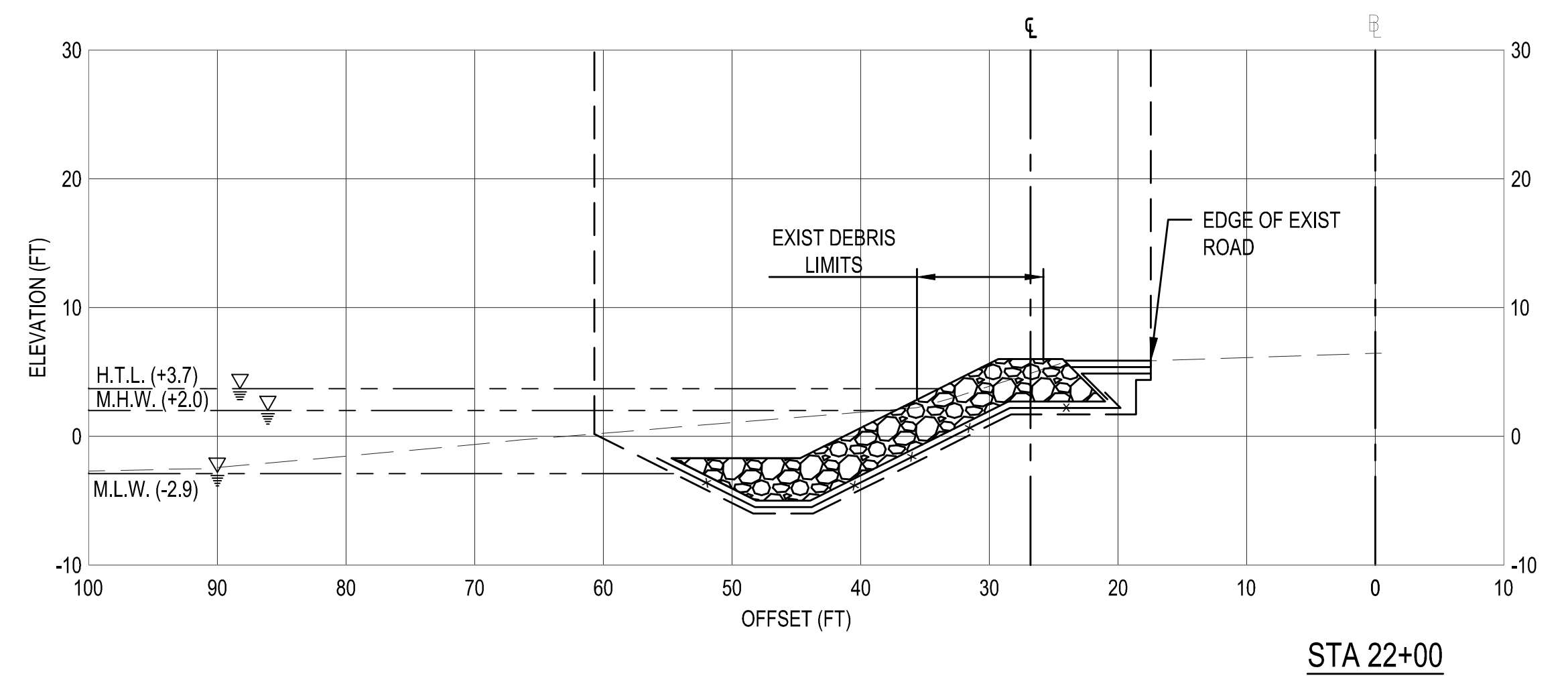
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NOTES:

1. REFER TO SHEET C-001 FOR CROSS SECTION LEGEND.

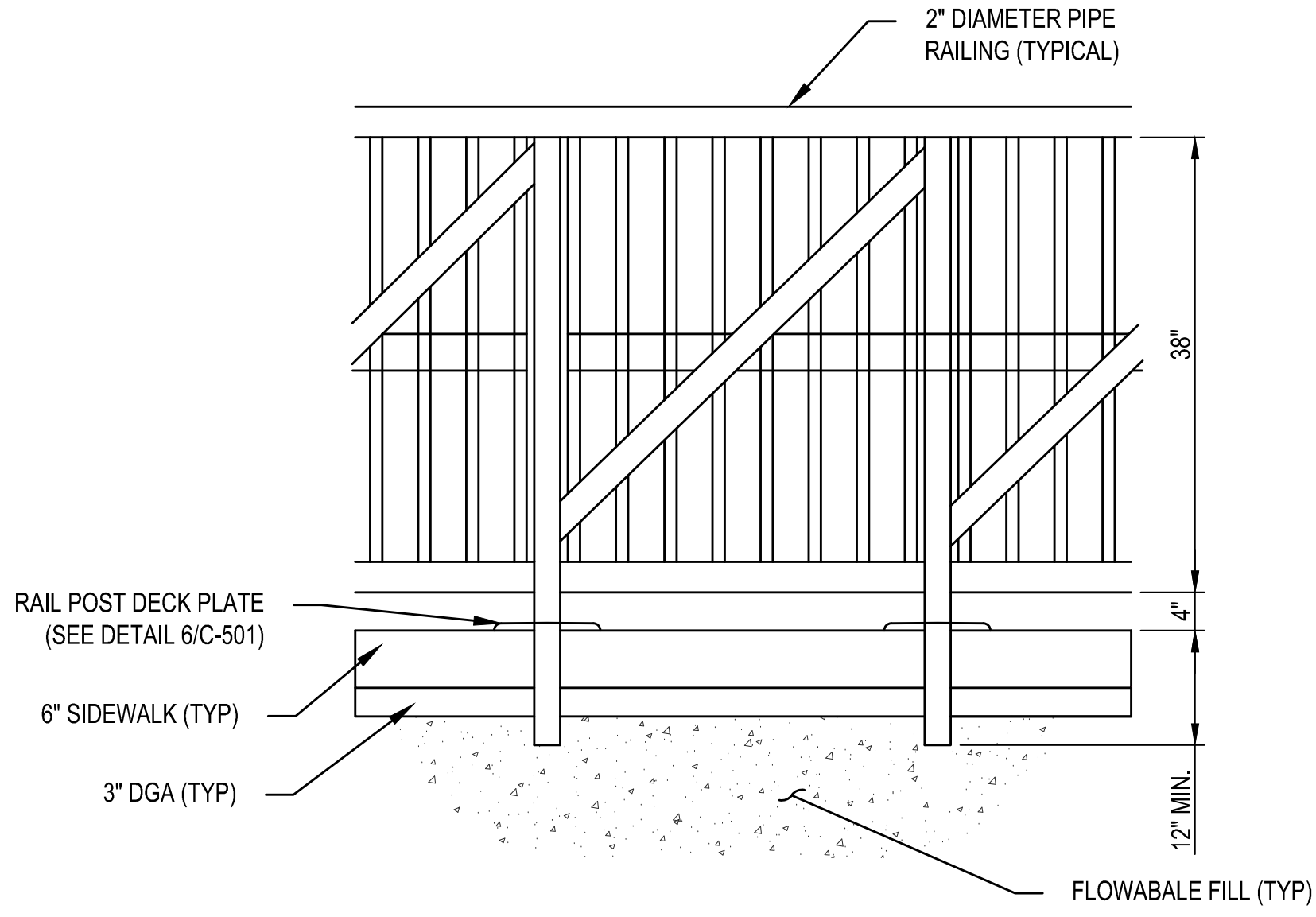
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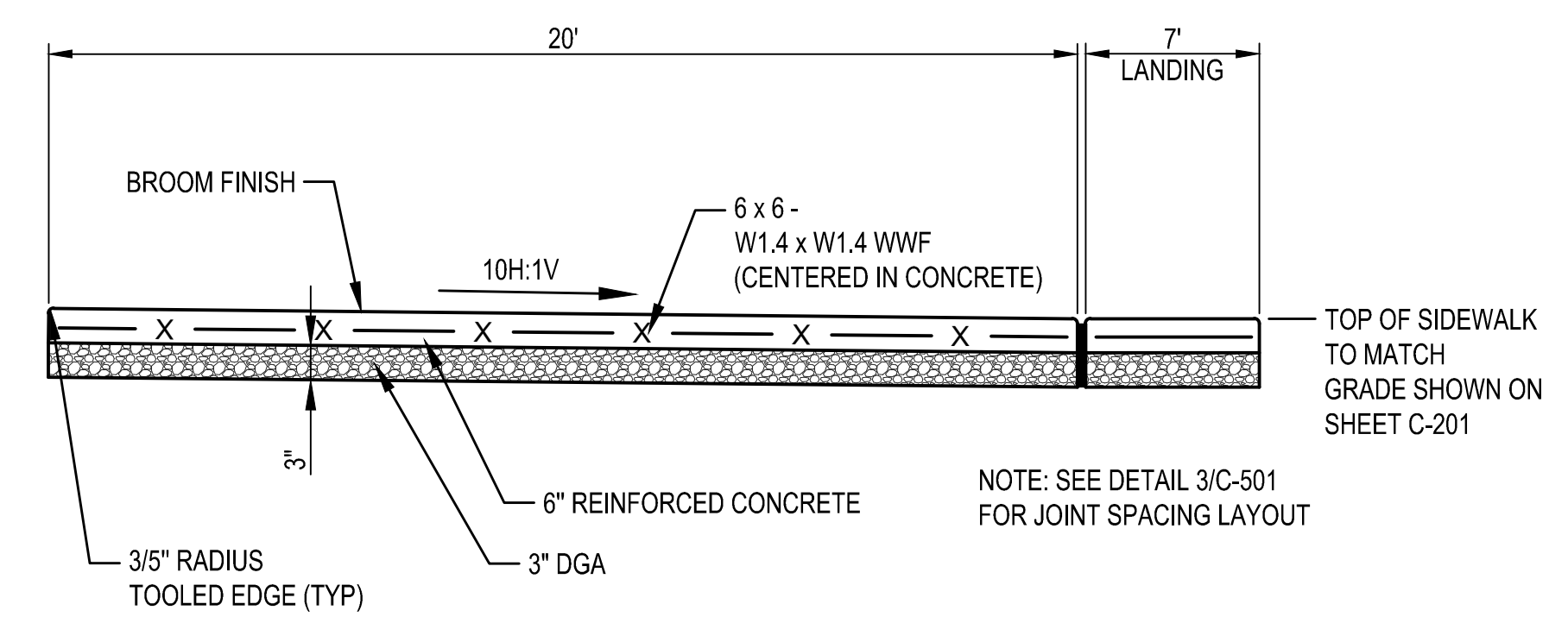
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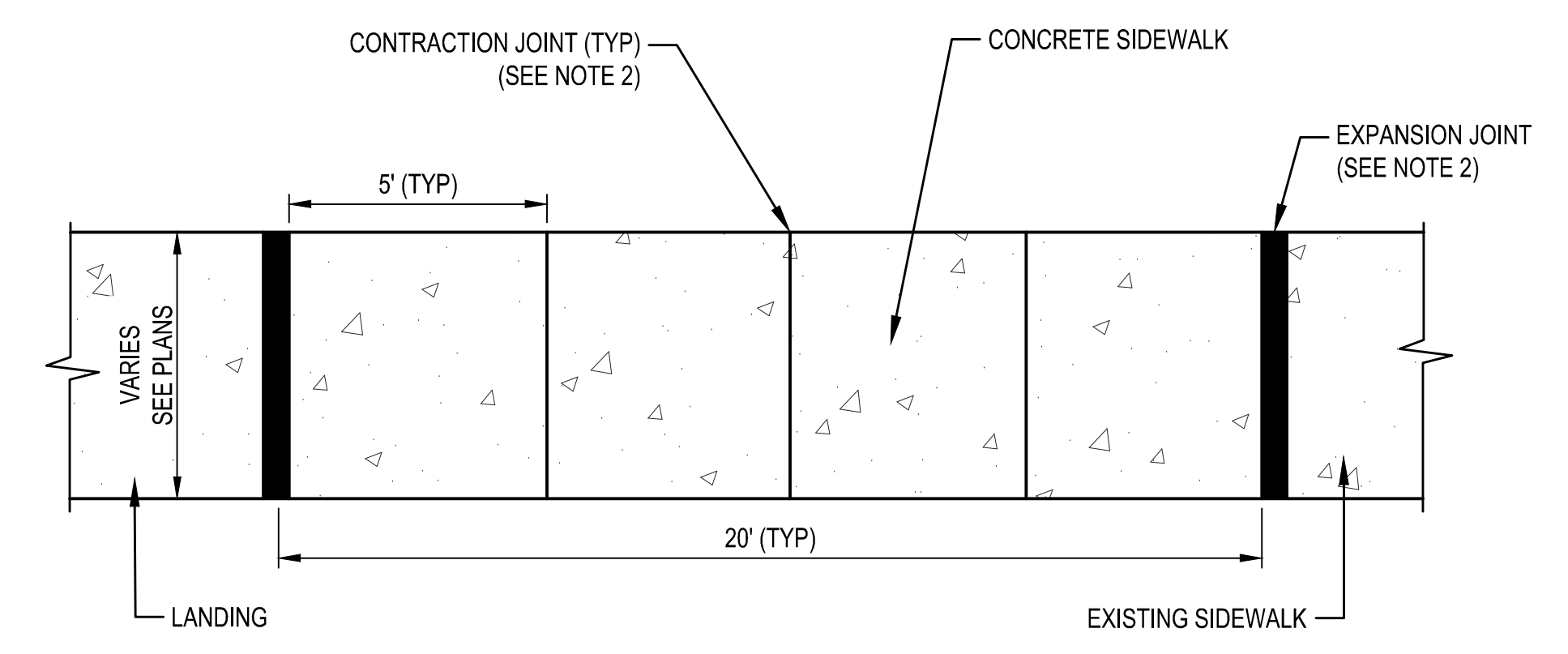


1. RAILING POST ASSEMBLY SHALL BE A WELDED UNIT.
2. ALL PIPES AND FITTINGS SHALL BE ALLOY 6063-T52 EXTRUDED ALUMINUM COMMERCIAL FINISH (ANODIZED) FOR MARINE ENVIRONMENT.
3. ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL.
4. CONTRACTOR SHALL CORE DRILL INTO POURED CONCRETE AS REQUIRED AND DIRECTED BY THE COR.
5. RAILING DETAIL SHALL MATCH EXISTING RAILING OF EXISTING GANGWAY.
6. HANDRAIL SHALL BE INSTALLED BY BRISTOL INDUSTRIES OR APPROVED EQUAL.

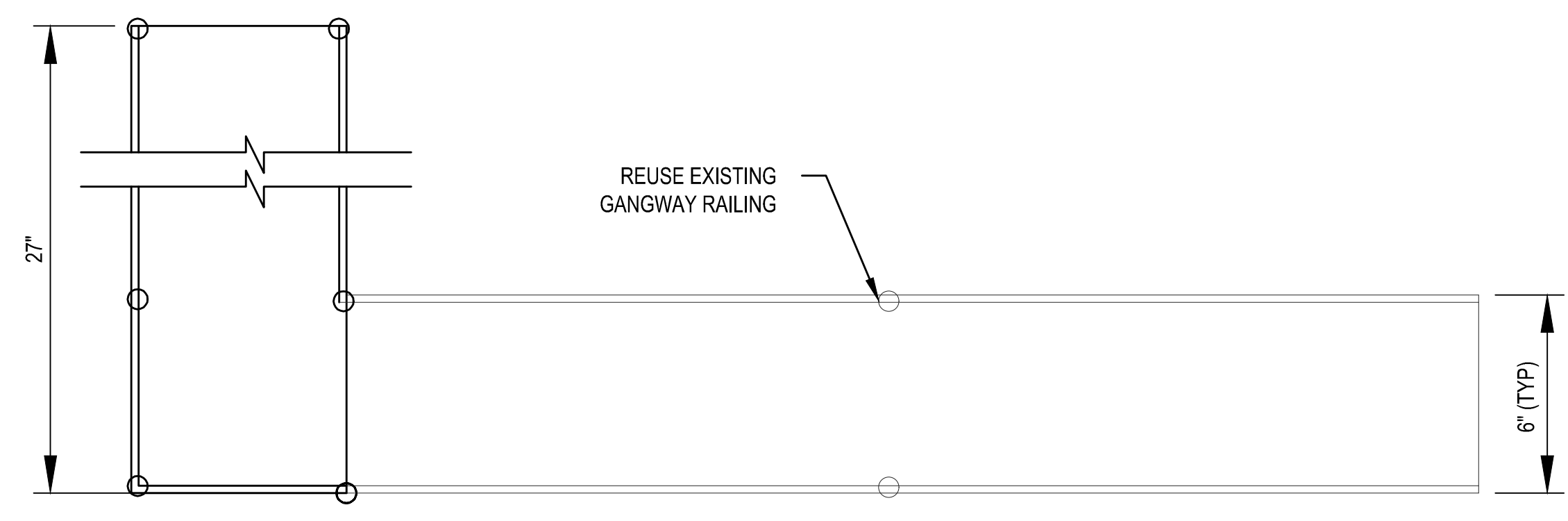
1 **DETAIL - RAILING FOR CONCRETE SURFACES**
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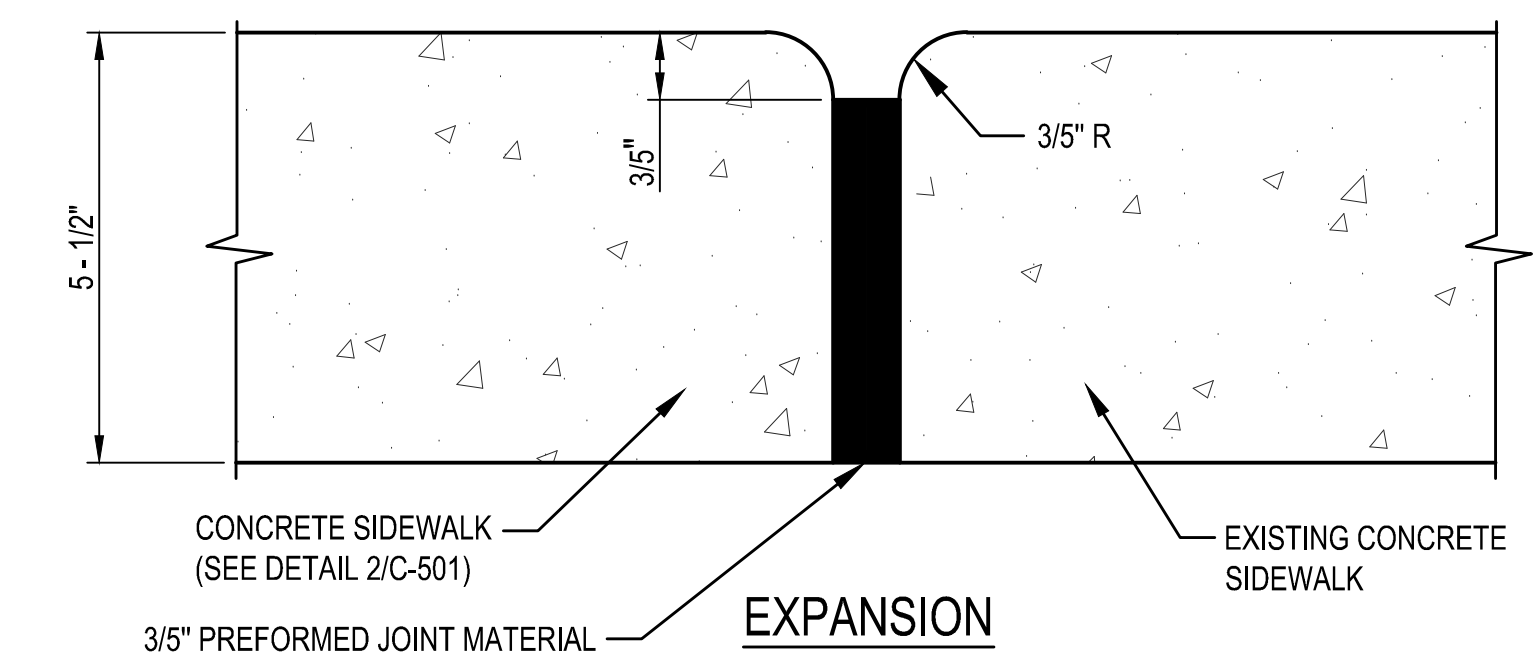
2 **DETAIL - CONCRETE SIDEWALK**
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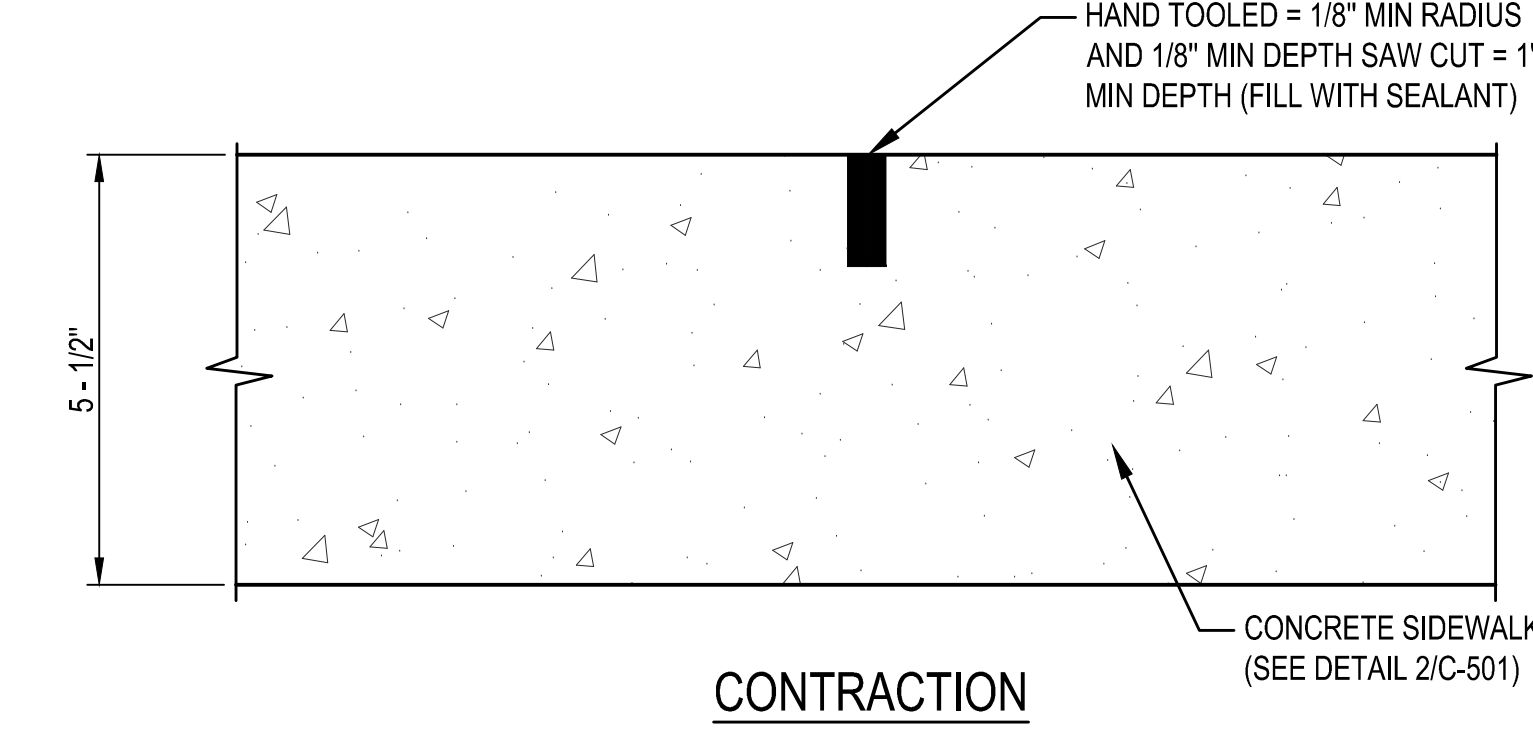
3 **DETAIL - JOINT SPACING**
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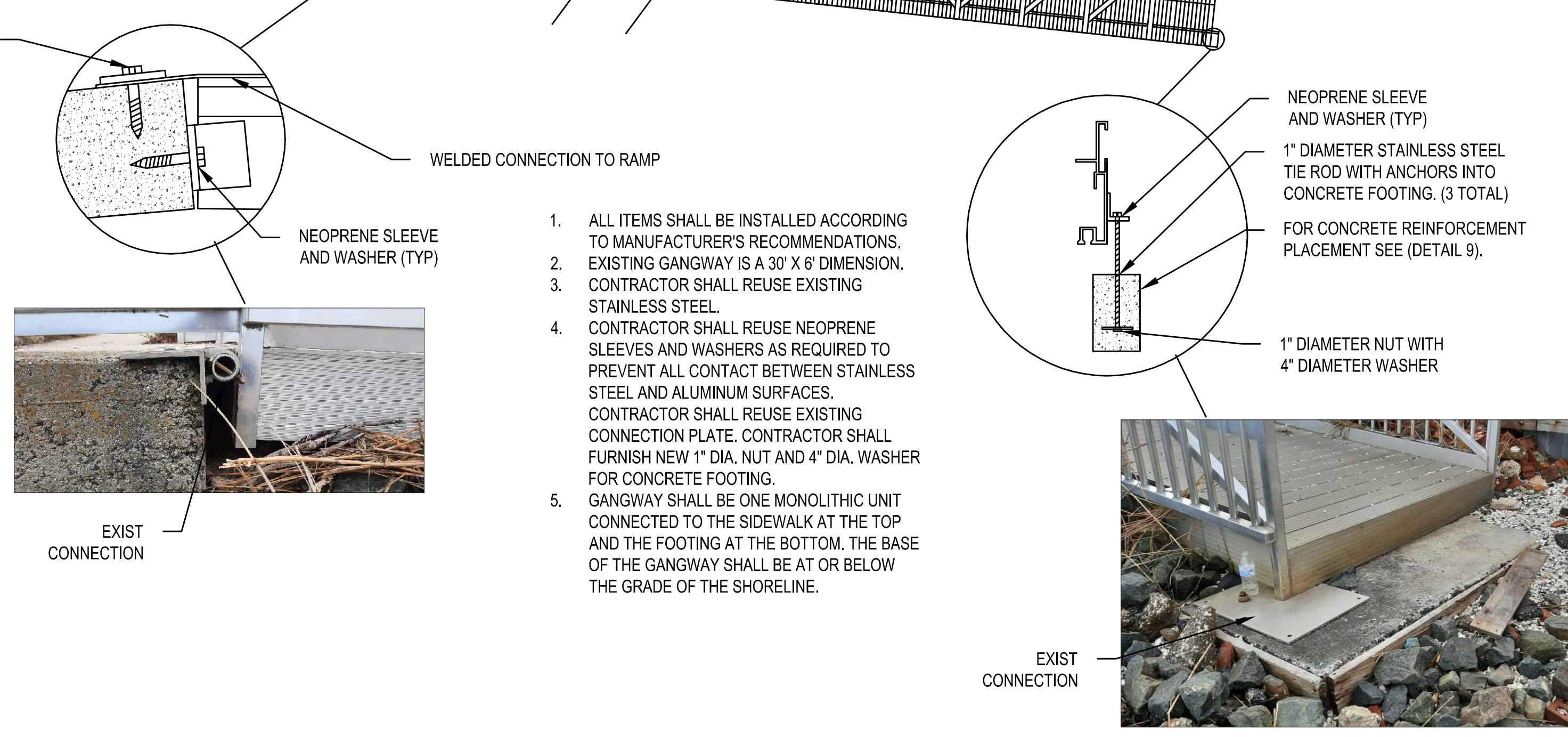
4 **DETAIL - JOINTS**
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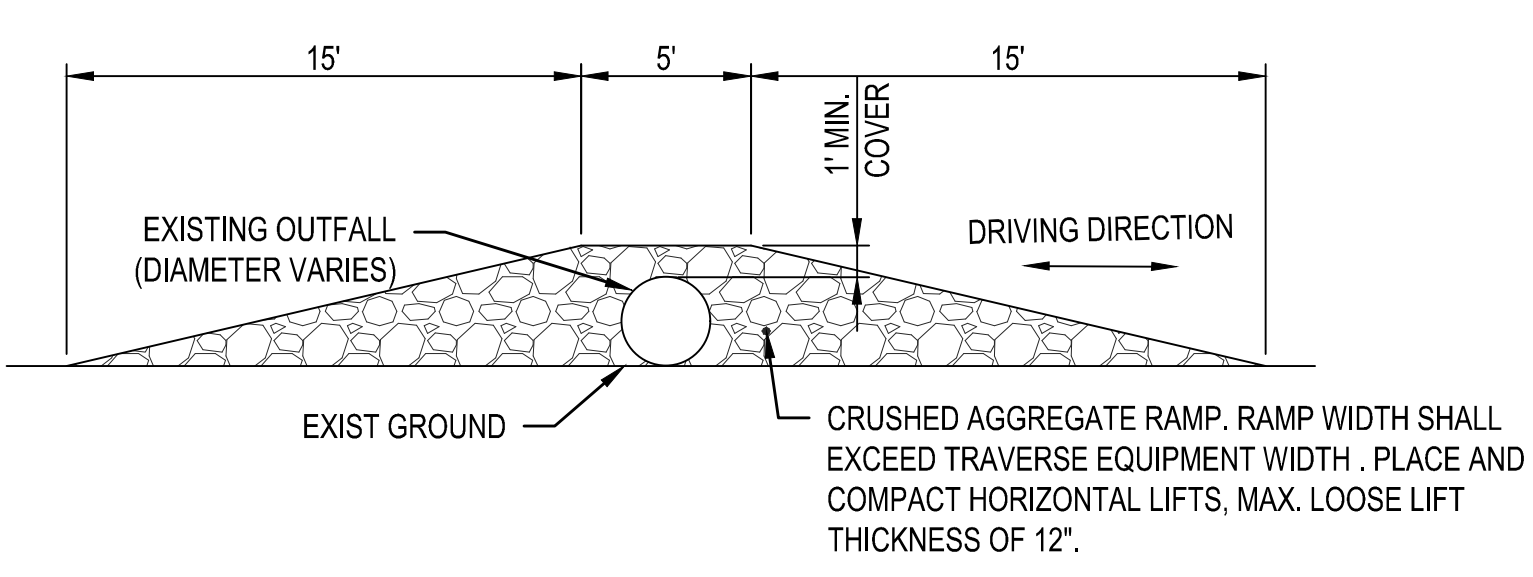
5 **DETAIL - REHANDLED ALUMINUM GANGWAY**
NTS



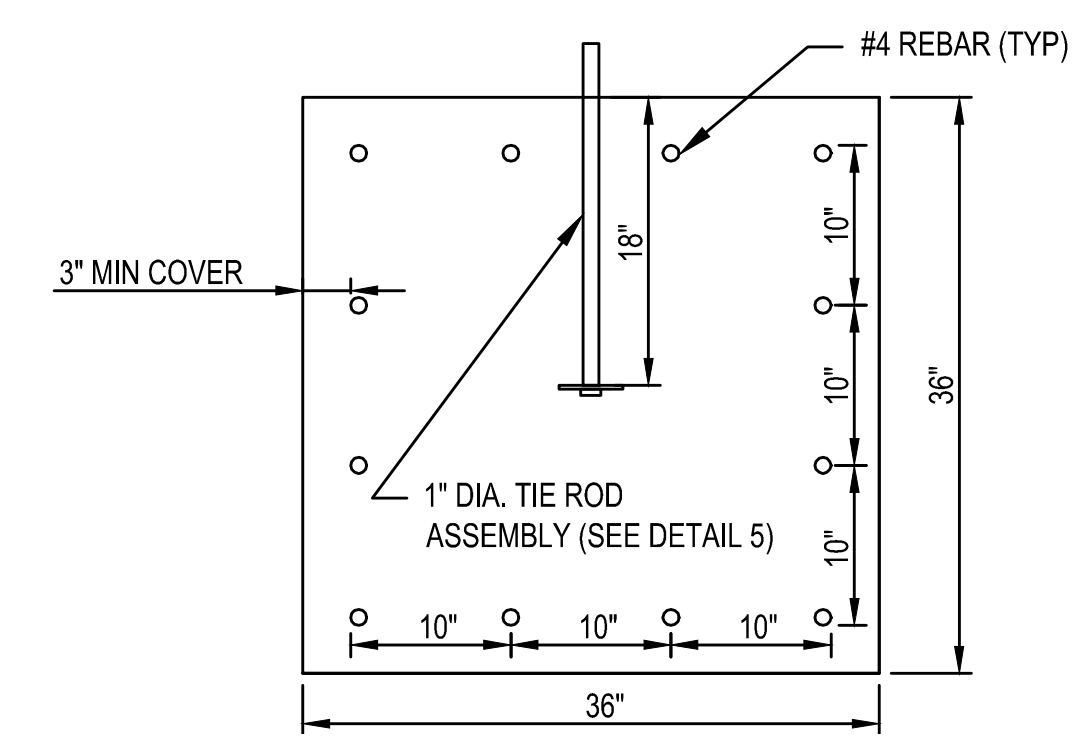
6 **DETAIL - RAIL POST DECK PLATE**
NTS



7 **DETAIL - FLOWABLE FILL FOR RAMP**
NTS



8 **DETAIL - OUTFALL CROSSING**
NTS



9 **DETAIL - GANGWAY FOOTING REINFORCEMENT**
NTS

NOTES:

1. FOR EXPANSION AND CONTRACTION JOINT DETAILS, SEE DETAIL 4/C-501.
2. ALL JOINTS SHALL BE FILLED WITH 3/5" PREFORMED JOINT MATERIAL.
3. IN LOCATIONS WHERE CONCRETE SIDEWALK TIES INTO EXISTING CONCRETE SIDEWALK, 3/5" PREFORMED JOINT MATERIAL SHALL BE PLACED AGAINST EXISTING CONCRETE SIDEWALK PRIOR TO PLACEMENT OF CONCRETE SIDEWALK.
4. THE CONTRACTOR SHALL POUR FLOWABLE CONCRETE INTO THE VOID SPACE OF THE RIPRAP BELOW THE CONCRETE SIDEWALK/RAMP. CONCRETE OVERPOUR SHALL PENETRATE A MINIMUM OF 12" INTO THE STRUCTURE PRIOR TO PLACEMENT OF DGA.

NO.	DATE	BY	DESCRIPTION

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
DETAILS

SHEET NUMBER
C-501

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT (E&S) PLAN.
 2. ALL WORK MUST BE DONE IN ACCORDANCE WITH THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY", 7TH EDITION, JANUARY 2014, REVISED JULY 2017.
 3. CONTACT THE CAPE ATLANTIC SOIL CONSERVATION DISTRICT 48 HOURS IN ADVANCE OF THE START OF ANY LAND DISTURBANCE ACTIVITIES.
 4. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE CONTRACTOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE CONTRACTING OFFICER, AND THE CAPE ATLANTIC SOIL CONSERVATION DISTRICT TO AN ON-SITE MEETING.
 5. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE NEW JERSEY ONE CALL SYSTEM AT 1-800-272-1000 FOR BURIED UTILITIES LOCATIONS.
 6. REMOVE ANY SEDIMENT THAT MAY BE SPILLED, DROPPED, OR TRACKED OFF OF THE PROJECT SITE. ALL PAVED RIGHTS-OF-WAY ADJACENT TO THE PROJECT SITE MUST BE MAINTAINED IN A CLEAN, SWEEP CONDITION THROUGHOUT CONSTRUCTION. INSTALL CRUSHED STONE PAD(S) TO HELP REDUCE OFF-SITE TRACKING OF SEDIMENT.
 7. CONTROL THE WASHING OR BLOWING OF SEDIMENT OFF OF THE PROJECT SITE. INSTALL SEDIMENT BARRIERS TO HELP REDUCE OFF-SITE SEDIMENTATION. MEASURES TO CONTROL DUST AND WIND EROSION MUST BE UTILIZED (I.E. WETTING OF SITE).
 8. THE PROPERTY MUST BE GRADED IN A MANNER THAT WILL NOT CAUSE EROSION OR SEDIMENTATION PROBLEM ON THE PROJECT SITE, OR TO ADJACENT PROPERTIES. AREAS SUBJECT TO SOIL RESTORATION MEASURES MUST COMPLY WITH THE STANDARD FOR LAND GRADING.
 9. SITE MUST BE PROPERLY MULCHED FOR NON-GROWING SEASONS USING STRAW MULCH @ 90-115 LBS./1,000 SQ. FT. (3 BALES), PROPERLY ANCHORED OR TACKED.
 10. WHEN REQUIRED, SITE MUST BE SEEDED TO ESTABLISH A TEMPORARY VEGETATIVE COVER, PERENNIAL RYEGRASS @ 1LB./1,000 SQ. FT. MAY BE UTILIZED.
 11. PREPARE AREAS TO BE PERMANENTLY VEGETATED BY TOPSOILING (A MINIMUM OF 5" IS REQUIRED), FERTILIZING @ 11 LBS./1,000 SQ. FT. OF 10-20-10, AND APPLYING LIME @ 90 LBS./1,000 SQ. FT.
 12. SEED THE SITE TO ESTABLISH A PERMANENT VEGETATIVE COVER UTILIZING A TURF-TYPE TALL FESCUE/PERENNIAL RYEGRASS MIX @ 6-8 LBS./1,000 SQ. FT., OR EQUIVALENT. APPLY STRAW MULCH @ 70-90 LBS./1,000 SQ. FT. (2 BALES), AND PROPERLY ANCHOR OR TACK. SOD, STONE COVER OR MULCHED LANDSCAPE BEDS MAY BE SUBSTITUTED FOR SEEDING TO ESTABLISH A PERMANENT COVER.
 13. STAGING AREA ENTRANCE MUST BE STABILIZED WITH A PERMANENT MATERIAL SUCH AS ASPHALT, CONCRETE, PAVING BLOCKS, CRUSHED STONE, CRUSHED CONCRETE OR DENSE GRADED AGGREGATE. SEE SHEET CE-101 FOR LOCATION OF STABILIZED CONSTRUCTION ENTRANCE. REFER TO SHEET CE501 FOR DETAILS.
 14. ALL SIDEWALKS, DRIVEWAY APRONS, AND CURBING IF REQUIRED BY THE MUNICIPALITY MUST BE COMPLETED PRIOR TO DEMOBILIZATION.
 15. A REPORT OF COMPLIANCE MUST BE OBTAINED FROM THE DISTRICT UPON COMPLETION OF CONSTRUCTION. REQUESTS FOR A DISTRICT INSPECTION FOR THE RELEASE OF A REPORT OF COMPLIANCE MUST BE MADE 5 WORKING DAYS IN ADVANCE. A REPORT OF COMPLETE COMPLIANCE IS ISSUED WHEN PERMANENT EROSION CONTROLS HAVE BEEN ADDRESSED. A REPORT OF CONDITIONAL COMPLIANCE MAY BE ISSUED WHEN THE SEASON OR OTHER CONDITIONS MAY NOT BE SUITABLE FOR ESTABLISHING A PERMANENT VEGETATIVE COVER. A CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED BY A MUNICIPALITY UNLESS THE DISTRICT HAS ISSUED A REPORT OF COMPLIANCE. THIS APPLIES TO BOTH THE COMPLETE (FINAL) AND CONDITIONAL (TEMPORARY) CERTIFICATES.
 16. THE "SOIL COMPACTION MITIGATION VERIFICATION FORM" MUST BE SUBMITTED TO THE DISTRICT PRIOR TO THE ISSUANCE OF A REPORT OF COMPLIANCE WHEN YOUR SOIL EROSION AND SEDIMENT CONTROL PLAN DENOTES AREAS OF THE SITE THAT ARE SUBJECT OF SOIL COMPACTION MITIGATION (TESTING AND/OR REMEDIATION).
 17. THE FOLLOWING "SEQUENCE OF CONSTRUCTION" MUST BE FOLLOWED FOR IMPLEMENTATION OF EROSION CONTROL MEASURES:
 - 17.1. INSTALLATION OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES.
 - 17.2. INSTALLATION OF DRAINAGE MEASURE (WHERE APPLICABLE).
 - 17.3. CONSTRUCTION OF THE FACILITY.
 - 17.4. IMPLEMENTATION OF SOIL RESTORATION MEASURES (WHERE APPLICABLE).
 - 17.5. INSTALLATION OF A PERMANENT COVER.
 - 17.6. REMOVAL OF SOIL EROSION AND SEDIMENT CONTROL MEASURES.
 18. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
 19. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
 20. DEGRADABLE EROSION CONTROL MATS MAY BE REQUIRED AS PART OF THE TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE SEEDING GERMINATES AND ADEQUATE GROWTH IS ACHIEVED. SEE SECTION 31 32 11 OF THE PROJECT SPECIFICATIONS.
 21. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES (BMPs) SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADE, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
 22. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
23. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
 24. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
 25. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES OR 6 TO 12 INCHES ON COMPACTED SOILS PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
 26. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
 27. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 12 INCHES IN THICKNESS.
 28. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
 29. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
 30. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
 31. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
 32. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
 33. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
 34. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
 35. CONTRACTOR SHALL UTILIZE TEMPORARY EROSION CONTROL BLANKET OVER TOPSOIL AREA TO ALLOW VEGETATION TO GERMINATE. THIS SHALL BE SEPARATE FROM THE PROPOSED SOIL STABILIZATION MAT.
 36. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
 37. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES.
 38. SEDIMENT BARRIER OR SILT FENCE LOCATIONS ARE SHOWN ON SHEETS CE101 AND CE102 FOR REFERENCE.
 39. CONTRACTOR SHALL MAINTAIN ALL EXISTING INLETS AND ENSURE THEY ARE KEPT FREE FROM SEDIMENT-LADEN RUNOFF LEAVING THE CONSTRUCTION SITE. PROTECTION IS TO REMAIN IN PLACE UNTIL REMOVAL IS APPROVED BY THE CONTRACTING OFFICER. EXISTING INLETS TO BE PROTECTED HAVE BEEN IDENTIFIED ON SHEETS CE101 AND CE102.
 40. CONTRACTOR SHALL ENSURE TEMPORARY STORMWATER CONVEYANCE MEASURES ARE UTILIZED DURING REPAIR/REPLACEMENT OF EXISTING OUTFALL STRUCTURES. TEMPORARY MEASURES MAY NEED TO REMAIN IN PLACE FOR EXTENDED DURATION IF OUTFALL DISTURBANCE IS PROLONGED.



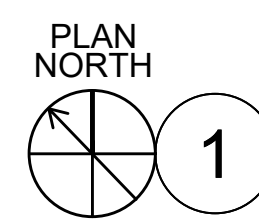
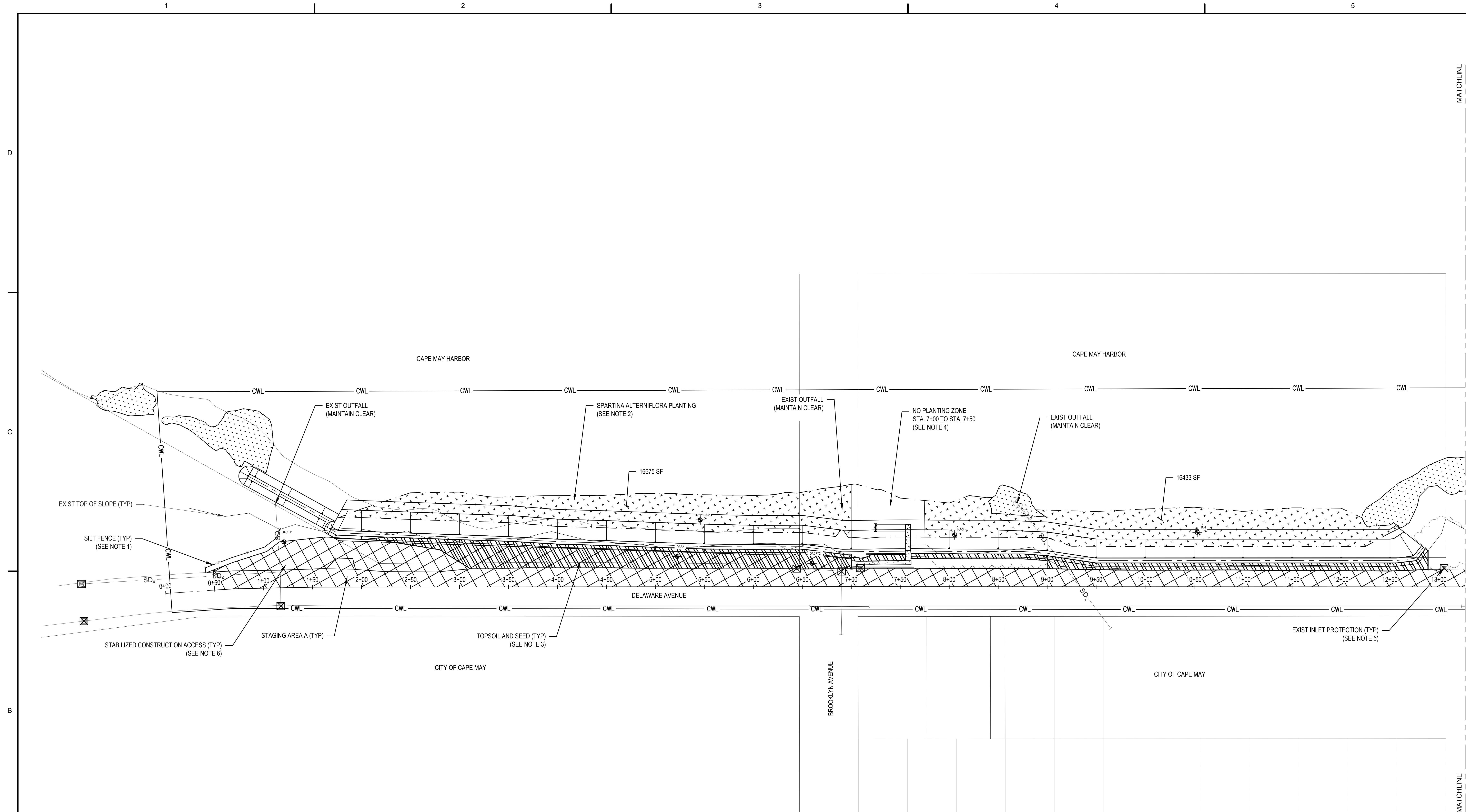
NO.	DATE	BY	DESCRIPTION

U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT		ISSUED SUBMITTAL DATE 30.10.2023	
DESIGNED BY FCS	DESIGNED BY FCS	ISSUED BY DAN	ISSUED BY DAN
DATE 06/10/2023	DATE 06/10/2023	PROJ SCALE	FILE NAME CE001 EROSION NOTES.dwg
CONTRACT NUMBER	CONTRACT NUMBER	PROJ NUMBER	PROJ NUMBER
PROJ NUMBER	PROJ NUMBER	PROJ NUMBER	PROJ NUMBER

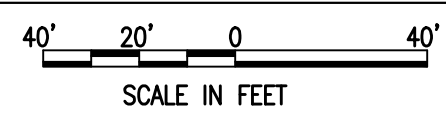
DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER
CE001

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PLAN - STA. 0+00 TO STA. 13+27



NOTES:

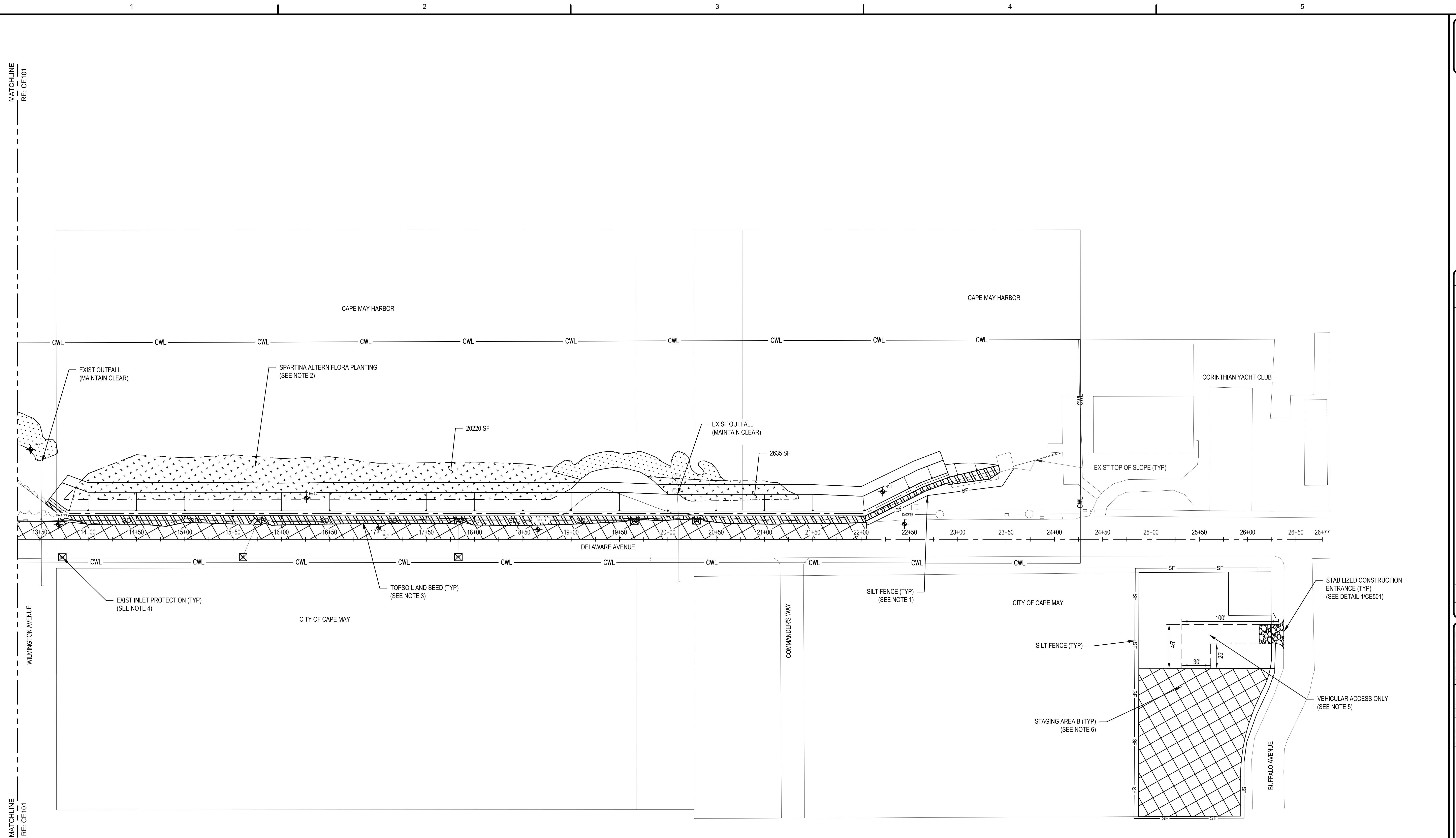
1. THE CONTRACTOR SHALL INSTALL SILT FENCE ALONG THE ENTIRETY OF DELAWARE AVENUE WHERE WORK IS TO OCCUR. SEE PROJECT SPECIFICATIONS FOR DEPLOYMENT REQUIREMENTS. SILT FENCE SHALL BE INSTALLED IN UPLAND AREA ADJACENT TO DELAWARE AVENUE. FENCE IS NOT SHOWN WITHIN STAGING AREA LIMITS ALONG DELAWARE AVENUE FOR CLARITY.
2. SPARTINA ALTERNIFLORA SHALL BE PLANTED WITHIN SAND FILL LIMITS UNLESS NOTED OTHERWISE. SEE DETAIL 4/CE-501 FOR SPACING REQUIREMENTS.
3. TOPSOIL SHALL BE PLACED IN AREAS SHOWN BETWEEN LANDWARD EDGE OF REVETMENT CREST AND EDGE OF THE EXISTING PAVEMENT LIMITS UNLESS OTHERWISE SHOWN. REFER TO CROSS-SECTIONS FOR TOPSOIL LOCATIONS. REFER TO DETAIL 5/CE501 FOR EROSION CONTROL METHODS OF TOPSOIL PLACEMENT.
4. NO PLANTING IS TO OCCUR BETWEEN STA. 7+00 AND 7+50 AS THIS AREA IS TO REMAIN CLEAR FOR NATURE CENTER ACTIVITIES.
5. ALL EXISTING INLET/CATCH BASINS WITHIN THE CWL AND THOSE DIRECTLY ADJACENT TO THE WORK AREA ARE TO BE PROTECTED DURING CONSTRUCTION. SEE DETAIL 3/CE-501 FOR REFERENCE.
6. EXISTING GRAVEL LOT TO BE UTILIZED AS STABILIZED CONSTRUCTION ENTRANCE. CONTRACTOR SHALL ADD ADDITIONAL DGA IF NECESSARY TO STABILIZE LOT AREA PRIOR TO TRUCKING IN EQUIPMENT AND MATERIALS.
7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING OUTFALLS CLEAR DURING CONSTRUCTION. STORMWATER SHALL BE TEMPORARILY CONVEYED WHEN CONSTRUCTION OCCURS ON OUTFALLS TO BE REPLACED/EXTENDED.

DATE	BY	DESCRIPTION

ISSUED FOR DATE: 06/10 JUNE 2023	ISSUED BY: JCS
DESIGNATION NUMBER: TDD	DESIGNED BY: JCS
CONTRACT NUMBER: TDD	DRAWN BY: DAN
FILE NAME: CE102-PLAN-04	PLOT SCALE: 1"=40'
DATE:	DWG. SIZE: 11x17

U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT

DELAWARE AVENUE REVETMENT CAPE MAY, NEW JERSEY CAPE MAY COUNTY, NEW JERSEY EROSION AND SEDIMENT CONTROL PLAN



1 PLAN - STA. 13+27 TO STA. 26+77
NTS

NOTES:

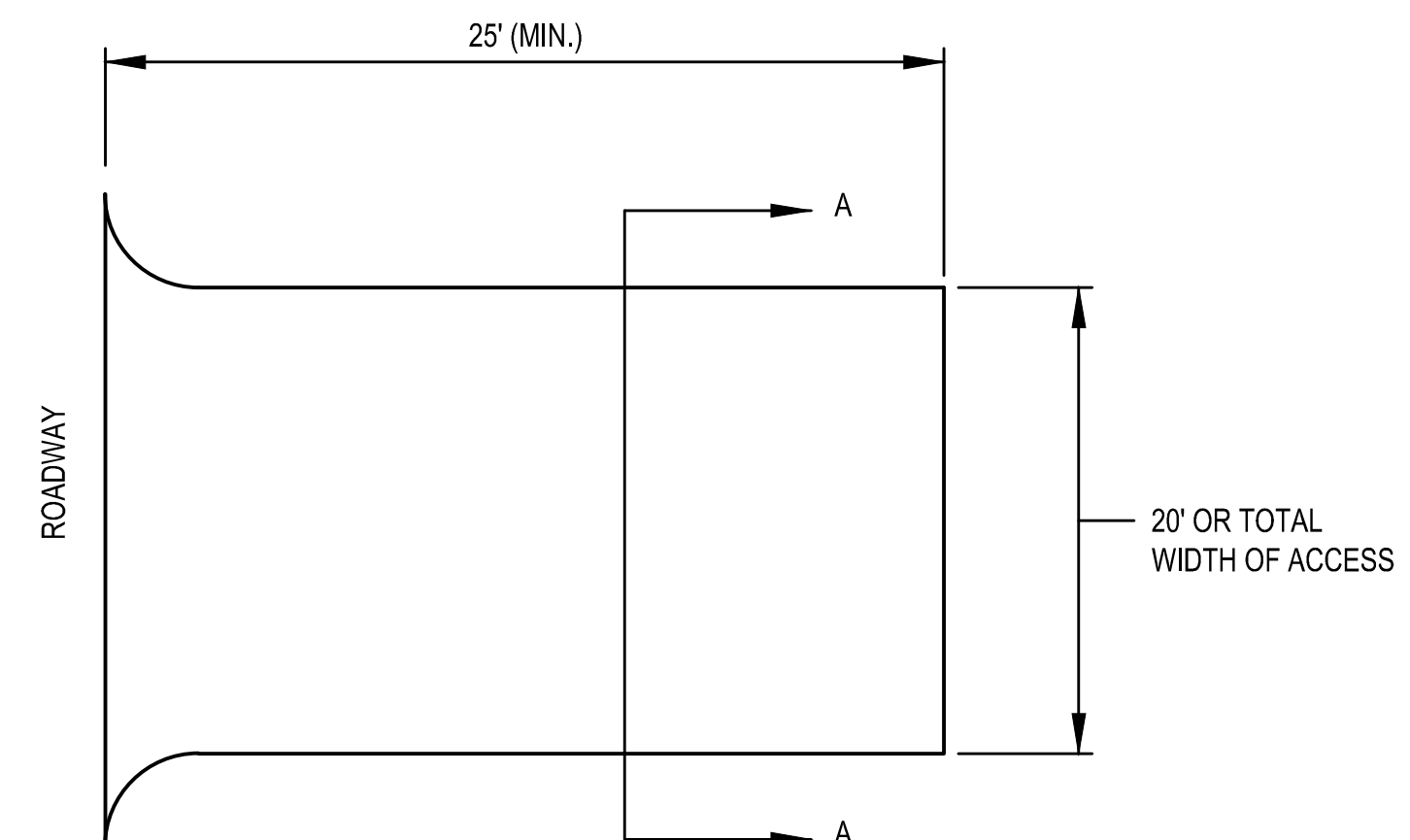
1. THE CONTRACTOR SHALL INSTALL SILT FENCE ALONG THE ENTIRETY OF DELAWARE AVENUE WHERE WORK IS TO OCCUR. SEE PROJECT SPECIFICATIONS FOR DEPLOYMENT REQUIREMENTS. SILT FENCE SHALL BE INSTALLED IN UPLAND AREA ADJACENT TO DELAWARE AVENUE. FENCE IS NOT SHOWN WITHIN STAGING AREA LIMITS ALONG DELAWARE AVENUE FOR CLARITY.
2. SPARTINA ALTERNIFLORA SHALL BE PLANTED WITHIN SAND FILL LIMITS UNLESS NOTED OTHERWISE. SEE DETAIL 4/CE-501 FOR SPACING REQUIREMENTS.
3. TOPSOIL SHALL BE PLACED IN AREAS SHOWN BETWEEN LANDWARD EDGE OF REVETMENT CREST AND EDGE OF THE EXISTING PAVEMENT LIMITS UNLESS OTHERWISE SHOWN. REFER TO CROSS-SECTIONS FOR TOPSOIL LOCATIONS. REFER TO DETAIL 5/CE501 FOR EROSION CONTROL METHODS OF TOPSOIL PLACEMENT.
4. ALL EXISTING INLET/CATCH BASINS WITHIN THE CWL ARE TO BE PROTECTED DURING CONSTRUCTION. SEE DETAIL 3/CE-501 FOR REFERENCE.
5. A PORTION OF THE EXISTING USCG LOT TO BE UTILIZED AS STABILIZED CONSTRUCTION ENTRANCE AND VEHICLE ACCESS ONLY. NORTHERN HALF OF LOT TO REMAIN OPEN FOR USE BY THE YACHT CLUB FOR STORAGE. VEHICLE ACCESS PATH SHOWN IS A MINIMUM AMOUNT OF SPACE THAT WILL BE AVAILABLE TO THE CONTRACTOR FOR ACCESS. CONTRACTOR SHALL ADD ADDITIONAL DGA TO LOT ENTRANCE AREA TO STABILIZE PRIOR TO TRUCKING IN EQUIPMENT AND MATERIALS.
6. SOUTHERN PORTION OF THE EXISTING USCG LOT SHOWN TO BE UTILIZED FOR CONTRACTOR STAGING. THE ENTIRE LOT SHALL BE ENCOMPASSED BY SILT FENCE AS SHOWN.
7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING OUTFALLS CLEAR DURING CONSTRUCTION. STORMWATER SHALL BE TEMPORARILY CONVEYED WHEN CONSTRUCTION OCCURS ON OUTFALLS TO BE REPLACED/EXTENDED.

DATE	BY	DESCRIPTION

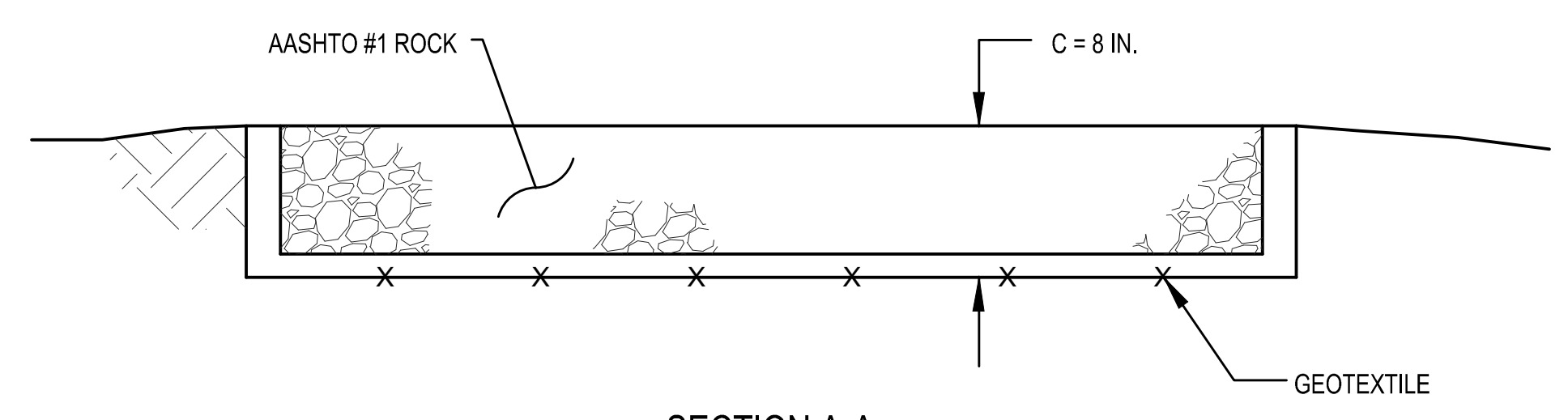
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DWG. SCALE AS SHOWN	FILE NAME CE10201A.dwg
DRAWN BY 	DESIGNED BY
CHECKED BY 	APPROVED BY
CONTRACT NUMBER 	CONTRACT NUMBER

DELAWARE AVENUE RETIREMENT
CAPE MAY, NEW JERSEY
CAPE MAY COUNTY, NEW JERSEY
EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER
CE102



PLAN VIEW

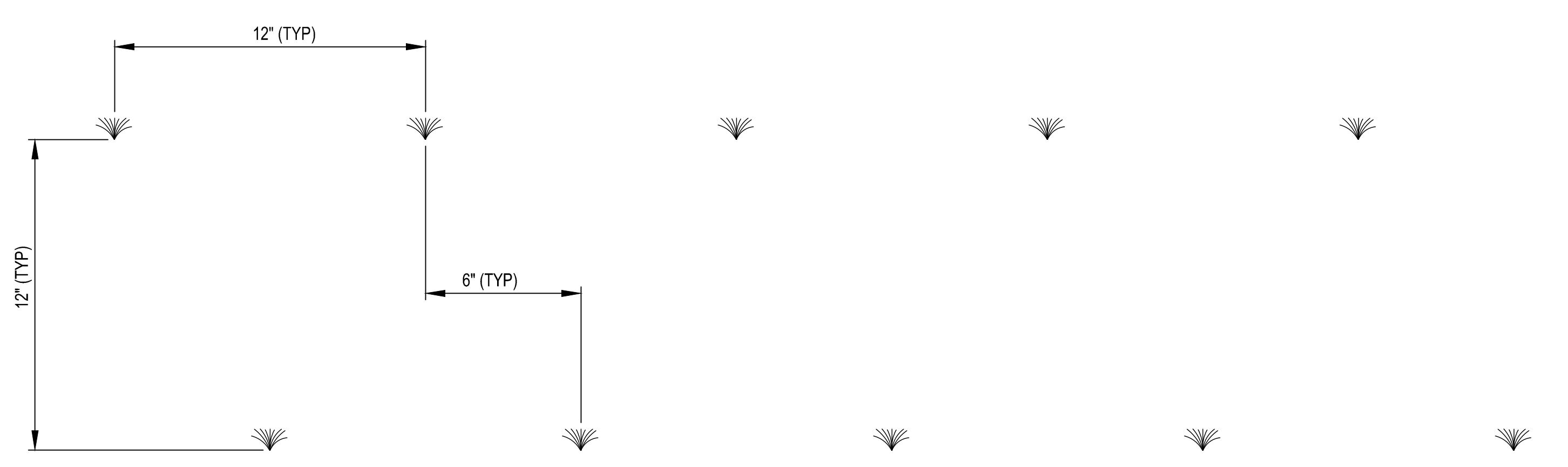


SECTION A-A

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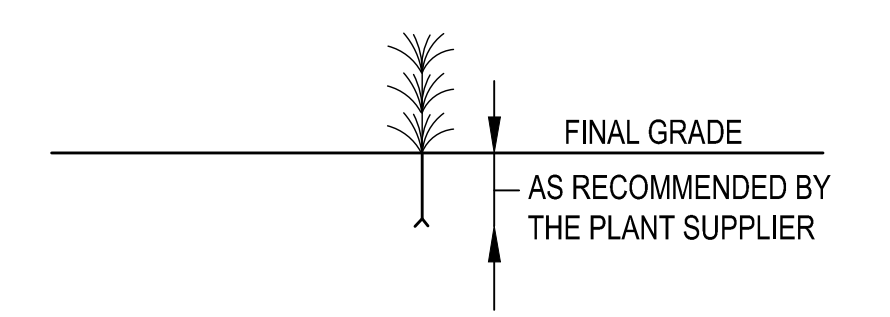
- ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

1 DETAIL - STABILIZED CONSTRUCTION ENTRANCE
NTS

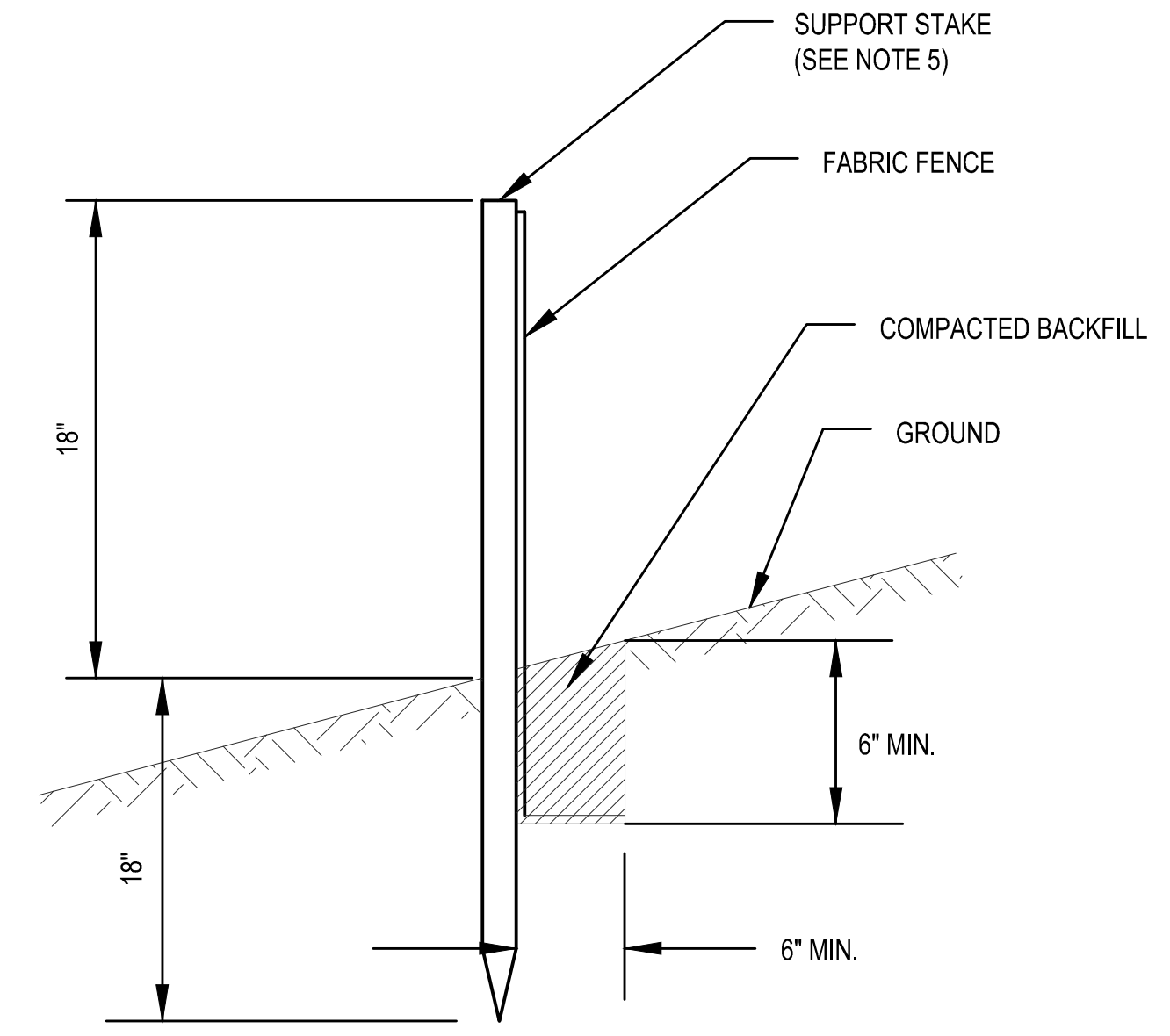
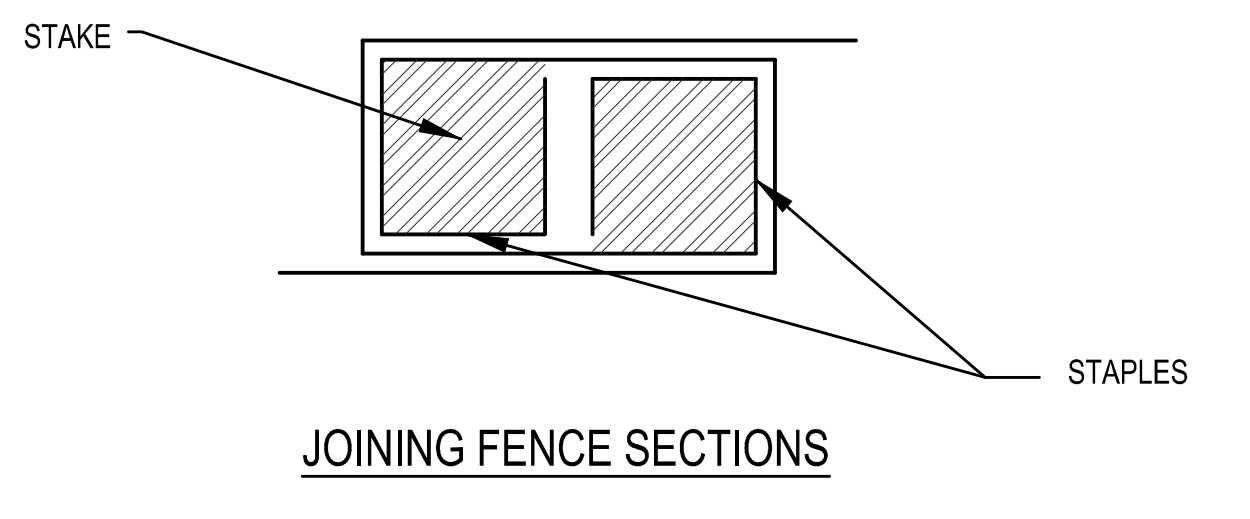


PLAN VIEW

NOTE: FERTILIZE EACH PLUG WITH SLOW RELEASE FERTILIZER PLACED DIRECTLY IN EACH HOLE.



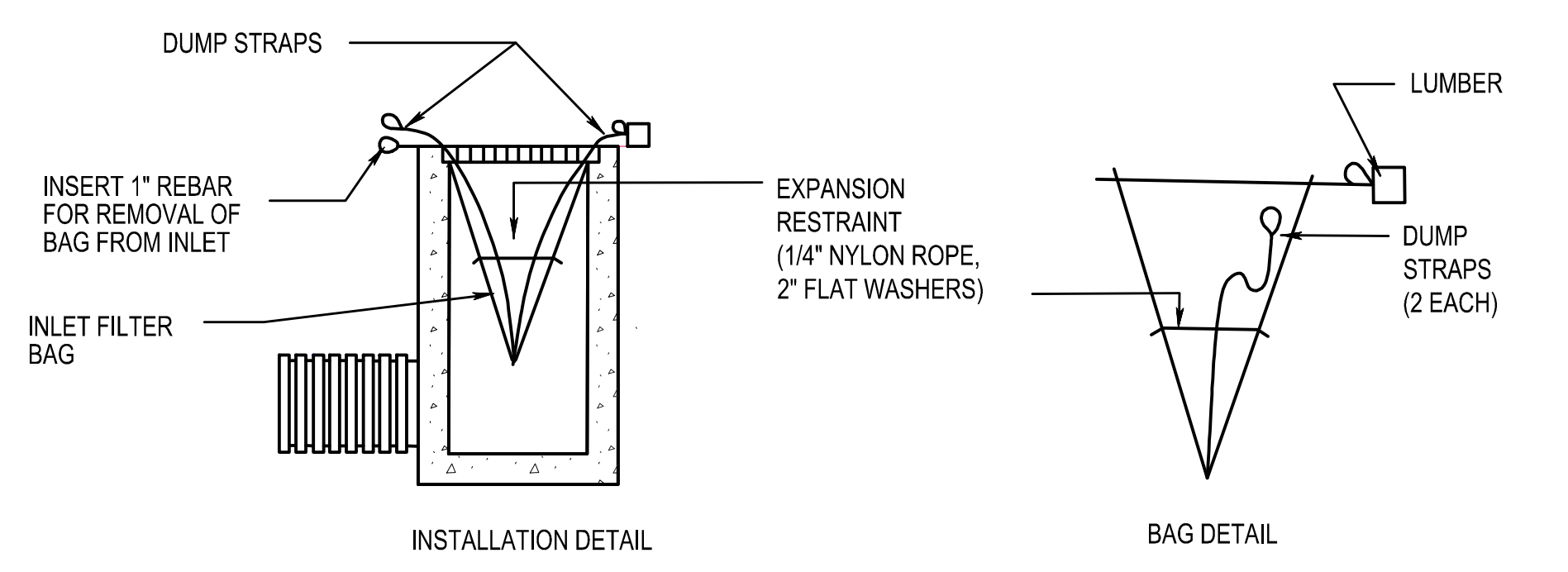
4 DETAIL - SPARTINA ALTERNIFLORA PLANTING
NTS



NOTES:

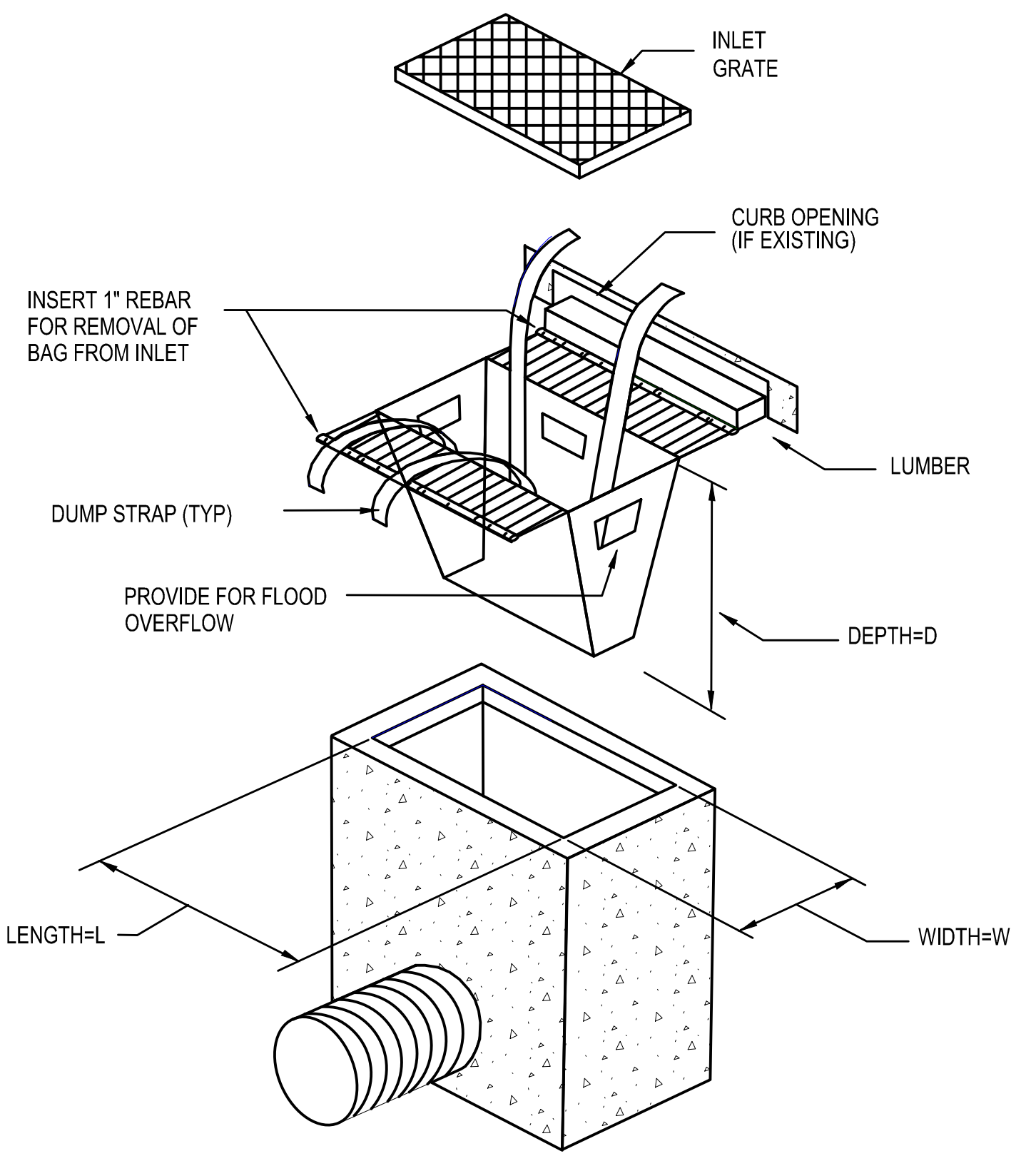
- FILTER FABRIC FENCE MUST BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
- ANY SECTION OF FILTER FABRIC FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEE DETAIL 6/CE-501.
- STAKES SPACED @ 8' MAXIMUM. USE 2" X 2" WOOD OR EQUIVALENT STEEL STAKES.

2 DETAIL - STANDARD FILTER FABRIC FENCE
NTS

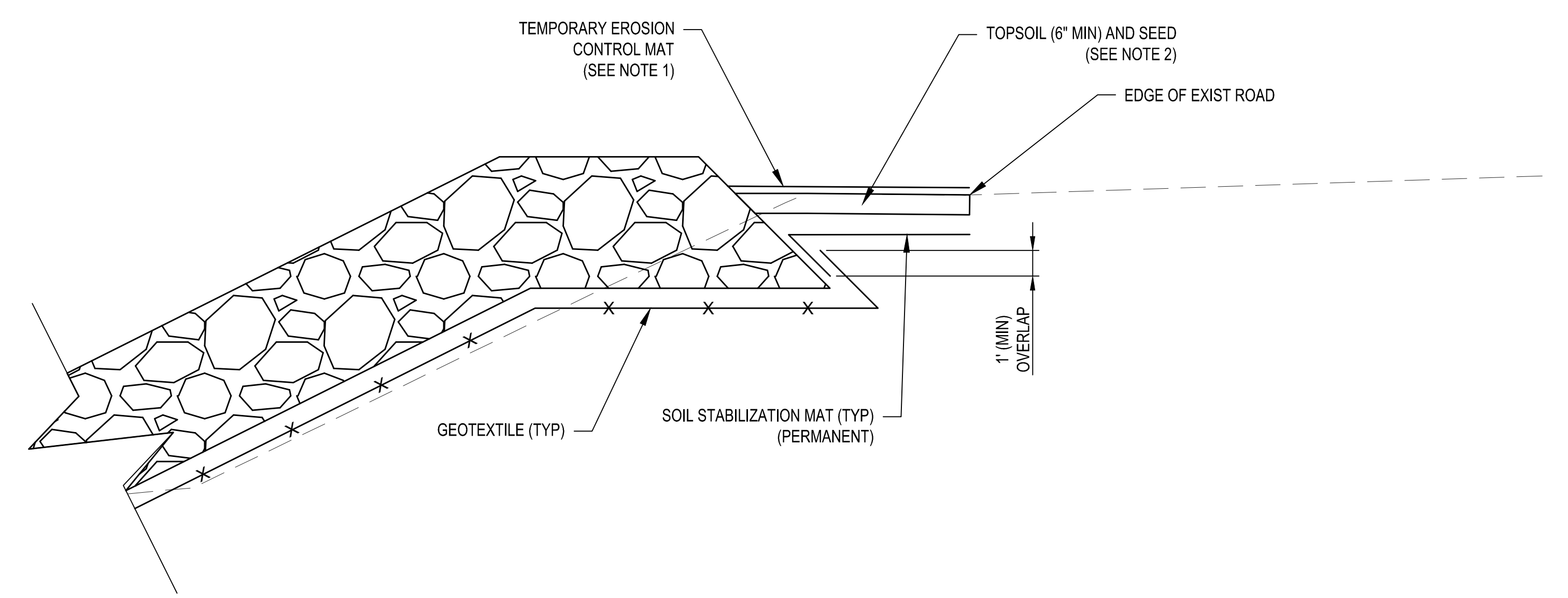


INSTALLATION DETAIL

BAG DETAIL



3 DETAIL - INLET PROTECTION
NTS



5 DETAIL - EROSION CONTROL MAT
NTS

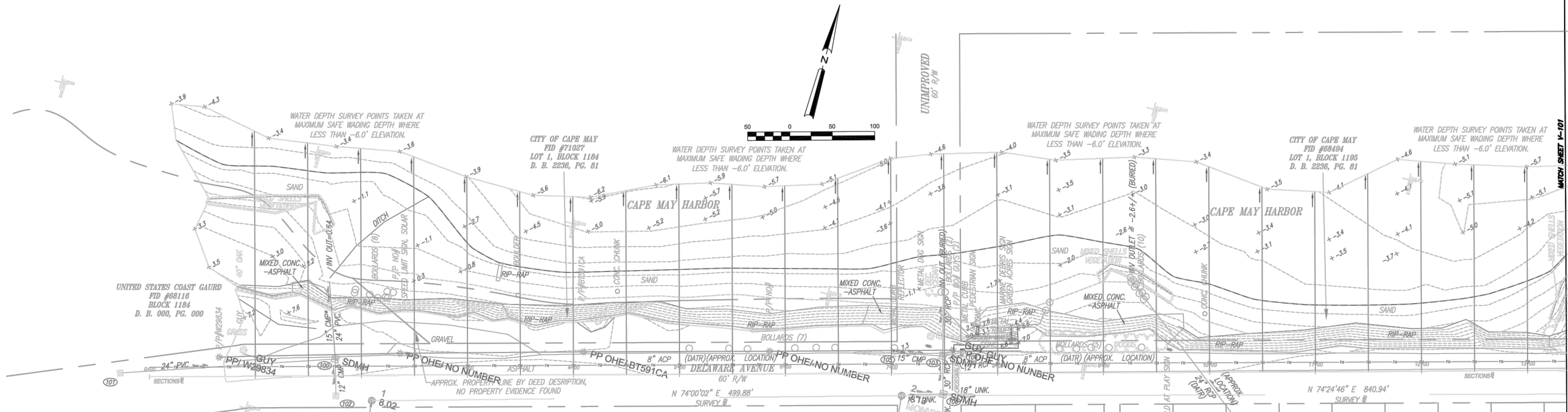
NOTES:

- THE CONTRACTOR SHALL UTILIZE A TEMPORARY OR DEGRADABLE EROSION CONTROL MAT TO ENSURE TOPSOIL LAYER IS SECURED WHILE GRASS SEED GERMINATES. MAT SHOWN OFFSET OF TOPSOIL FOR CLARITY.
- TOPSOIL SHALL BE INSTALLED TO MATCH EXISTING GRADE. IN LOCATIONS WHERE THE REVETMENT IS OUTSHORE OF EXISTING GROUND, THE EXISTING GRADE SHALL BE CONTINUED TO MEET THE REVETMENT BACKSLOPE. TOPSOIL SHALL BE INSTALLED ABOVE A PERMANENT SOIL STABILIZATION MAT THAT WILL OVERLAP THE REVETMENT GEOTEXTILE A MINIMUM OF 1 FOOT AS SHOWN. GEOTEXTILE AND STABILIZATION MAT SHOWN OFFSET FOR CLARITY.

ISSUE/REVISIONAL DATE	SCALE	DATE	BY
ISSUED FOR CONSTRUCTION	AS SHOWN		
DESIGNED BY	DATE	DESCRIPTION	
CHECKED BY			
DATE			
FILE NAME			
DATE			

U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT	DELAWARE AVENUE REVETMENT CAPE MAY, NEW JERSEY CAPE MAY COUNTY, NEW JERSEY EROSION AND SEDIMENT CONTROL DETAILS
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REFERENCE DRAWING ONLY



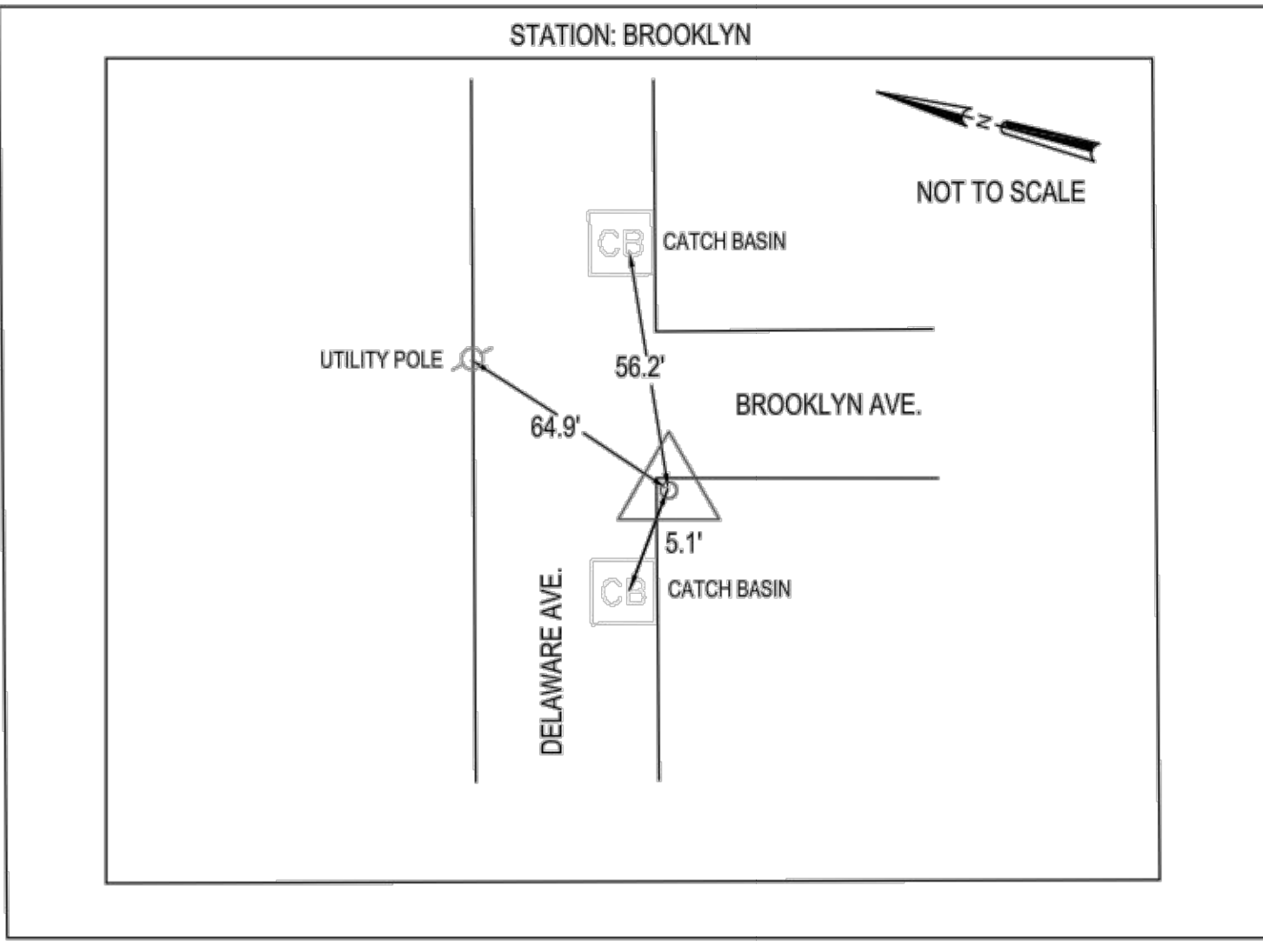
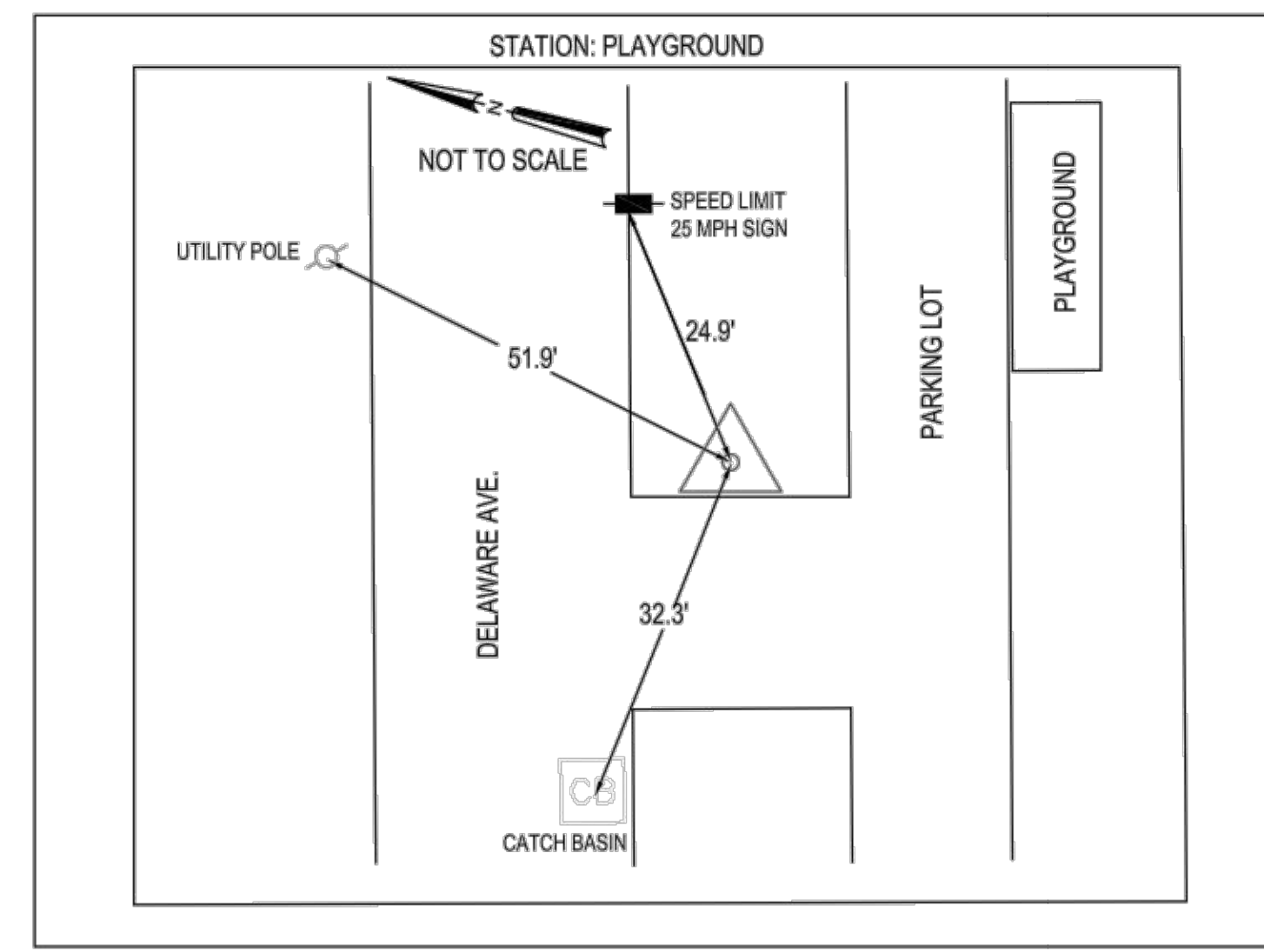
DELAWARE AVENUE TOPOGRAPHIC SURVEY
 CAPE MAY, NEW JERSEY
 SCALE: 1" = 50'
 PMI PROJECT NO. 21009
 NOTES

1. BASIS OF MERIDIAN FOR THIS SURVEY IS NORTH AMERICAN DATUM 1983 (NAD83), NEW JERSEY STATE PLANE COORDINATES AS ESTABLISHED BY PROVIDED SURVEY CONTROL POINTS NUMBER 1, 2 AND 3 SHOWN IN SURVEY.
2. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) ESTABLISHED FROM PROVIDED PROJECT CONTROL POINTS AS LISTED IN NOTE #1.
3. THE GROUND RUN TOPOGRAPHIC SURVEY AND MAPPING WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF MARK D. MCGONIGLE FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND ORIGINAL DATA WAS OBTAINED BETWEEN FEBRUARY 04, 2021 AND FEBRUARY 26, 2021; AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
4. THIS SURVEY WAS PREPARED TO SHOW EXISTING FEATURES AS OF FEBRUARY 26, 2021 AND DOES NOT CERTIFY TO CHANGES IN THE SITE CONDITIONS OCCURRING SUBSEQUENT TO THIS DATE.
5. THE PROPERTY AND RIGHT-OF-WAY LINES SHOWN ON THIS TOPOGRAPHIC SURVEY ARE AS COMPILED FROM RECORD INFORMATION AND NOT INDEPENDENTLY VERIFIED BY A LICENSED NEW JERSEY SURVEYOR.
6. THIS SURVEY IS NOT INTENDED TO DEPICT WETLANDS, HAZARDOUS WASTE OR ENVIRONMENTAL FEATURES THAT MAY AFFECT THE PROPERTY.
7. MEASUREMENTS INSIDE OF MANHOLES (INVERTS, SIZES, MATERIALS) ARE ASCERTAINED AS BEST POSSIBLE WITHOUT BENEFIT OF CONFINED SPACE ACCESS. PRECISION MEASUREMENTS DOES NOT WARRANT MATERIAL TYPES AND PIPE SIZES CONTAINED WITHIN CONFINED SPACE AREAS.
8. THE LIMITED UNDERGROUND UTILITIES SHOWN ARE FROM PROVIDED UTILITY RECORDS AND SURFACE EVIDENCE.
9. THIS SURVEY WAS PREPARED FOR USACE, PHILADELPHIA DISTRICT.

STORM STRUCTURE DATA

SDMH #100 TOP=7.67 INV IN (SW)=0.82 INV IN (SE)=2.57 INV OUT 15"(NW)=4.87 APPEARS ABANDONED* INV OUT 24"(NW)=0.77	SDMH #103 TOP=7.00 STR. SURCHARGED* INV IN (SW)=2.7+/- TOP OF SEDIMENT INV IN (SE)=2.9+/- TOP OF SEDIMENT INV IN (NE)=2.3+/- TOP OF SEDIMENT INV OUT (NW)=2.2+/- TOP OF SEDIMENT
DJ#101 RIM=6.91 INV OUT (NE)=1.71	DJ#104 RIM=6.91 INV OUT (SW)=3.11
DJ#102 RIM=7.32 INV OUT (NW)=4.22	DJ#105 RIM=6.92 INV OUT (NW)=3.12
	SDMH #106 TOP=7.00 INV IN (SW)=2.30 INV IN (NE)=2.30 INV IN (SE)=2.20 INV OUT (NW)=2.20

PRECISION MEASUREMENTS, INC.
 SURVEYORS - GPS - GIS - MAPPING - 3-D LASER SCANNING
 1047 TECHNOLOGY PARK DR.
 GLEN ALLEN, VA 23059
 (804) 340-5229
 WWW.PRECISIONMEASUREMENTS.COM
 VIRGINIA BEACH - NEWPORT NEWS - RICHMOND - CHANTILLY, VIRGINIA



LEGEND

○	COMMUNICATION HAND HOLE	○	SANITARY-STORM CLEAN OUT
○	COMMUNICATION MANHOLE	○	SANITARY MANHOLE
○	FIBER OPTIC HANDHOLE	○	DRAINAGE MANHOLE
○	UNDERGROUND COMMUNICATION	○	SHRUB
○	ELECTRIC HAND HOLE	○	18" OAK
○	ELECTRIC MANHOLE	○	TREE/SIZE & TYPE
○	POWER POLE WITH LIGHT	○	FIRE HYDRANT
○	PEDESTRIAN CROSSING SIGNAL	○	IRRIGATION VALVE
○	UNDERGROUND ELECTRIC	○	WATER VALVE
○	GAS VALVE	○	GROUND LIGHT
○	UNDERGROUND GAS LINE	○	WATER METER
○	TRAFFIC HAND HOLE	○	WATER MANHOLE
○	TRAFFIC SIGNAL	○	UNDERGROUND WATER
○	TRAFFIC MANHOLE	○	TRAVERSE POINT
○	TRAFFIC CABINET	○	FENCE
○	MONITORING WELL	○	TRAV
○	SIGN	○	CONC
		○	HCR
		○	S/W
		○	30" C&G
		○	0.5" CC
		○	POWER POLE
		○	GATE POST
		○	BORING
		○	BOLLARD

ISSUE/REVISIONAL DATE	3/26/21	ISSUE/REVISIONAL NUMBER	1
DESIGNED BY	TEH	CONTRACT NUMBER	21009
DRAWN BY	TEH	FILE NAME	21009-01-01
CHECKED BY	TEH	DATE	3/26/21
DATE	3/26/21	DESCRIPTION	DELAWARE AVENUE RETIREMENT
MARK FACTOR			

U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT

DELAWARE AVENUE RETIREMENT
 CAPE MAY, NEW JERSEY
 EXISTING CONDITION SHEET 1 OF 2

SHEET NUMBER
R-101

