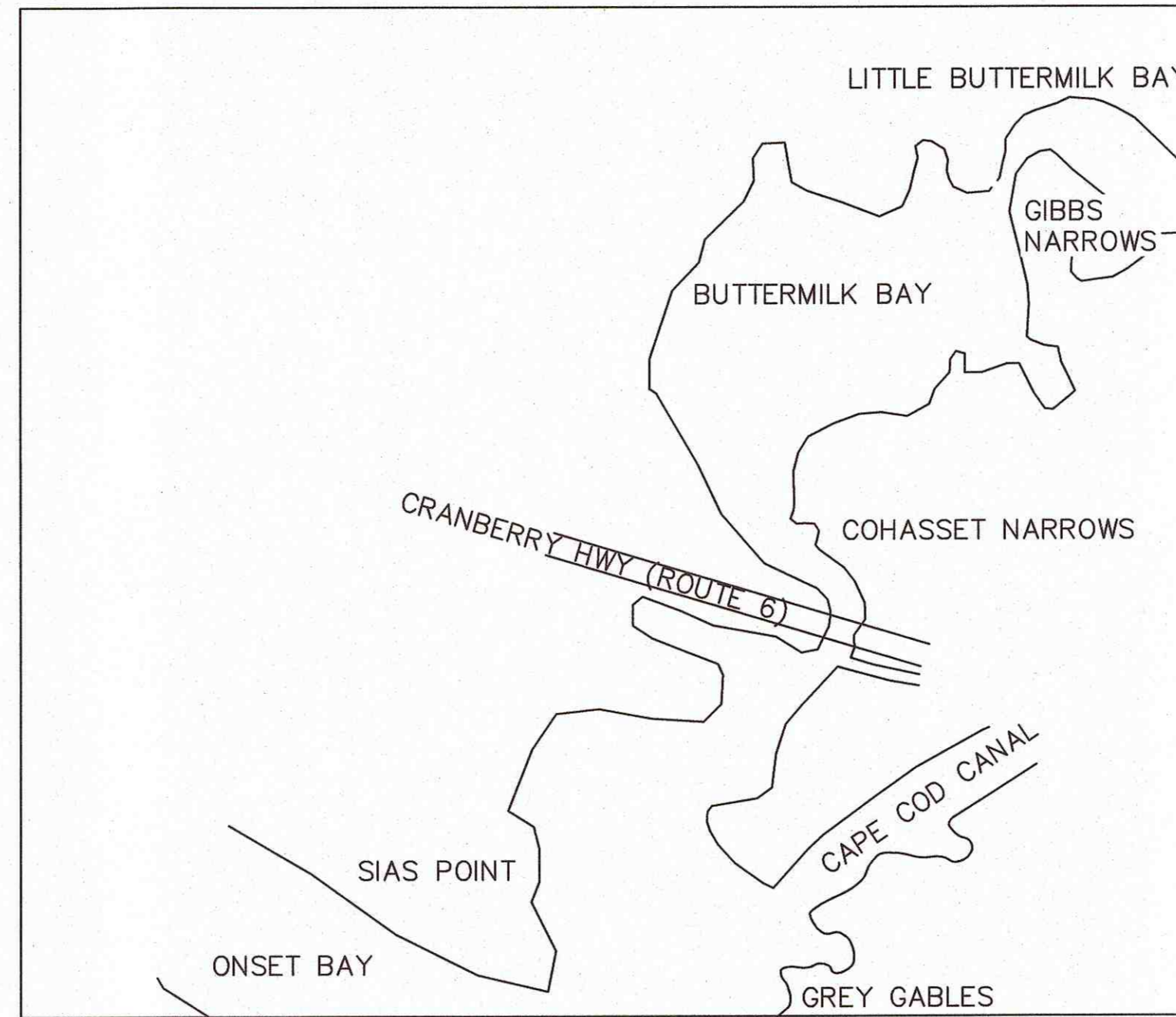




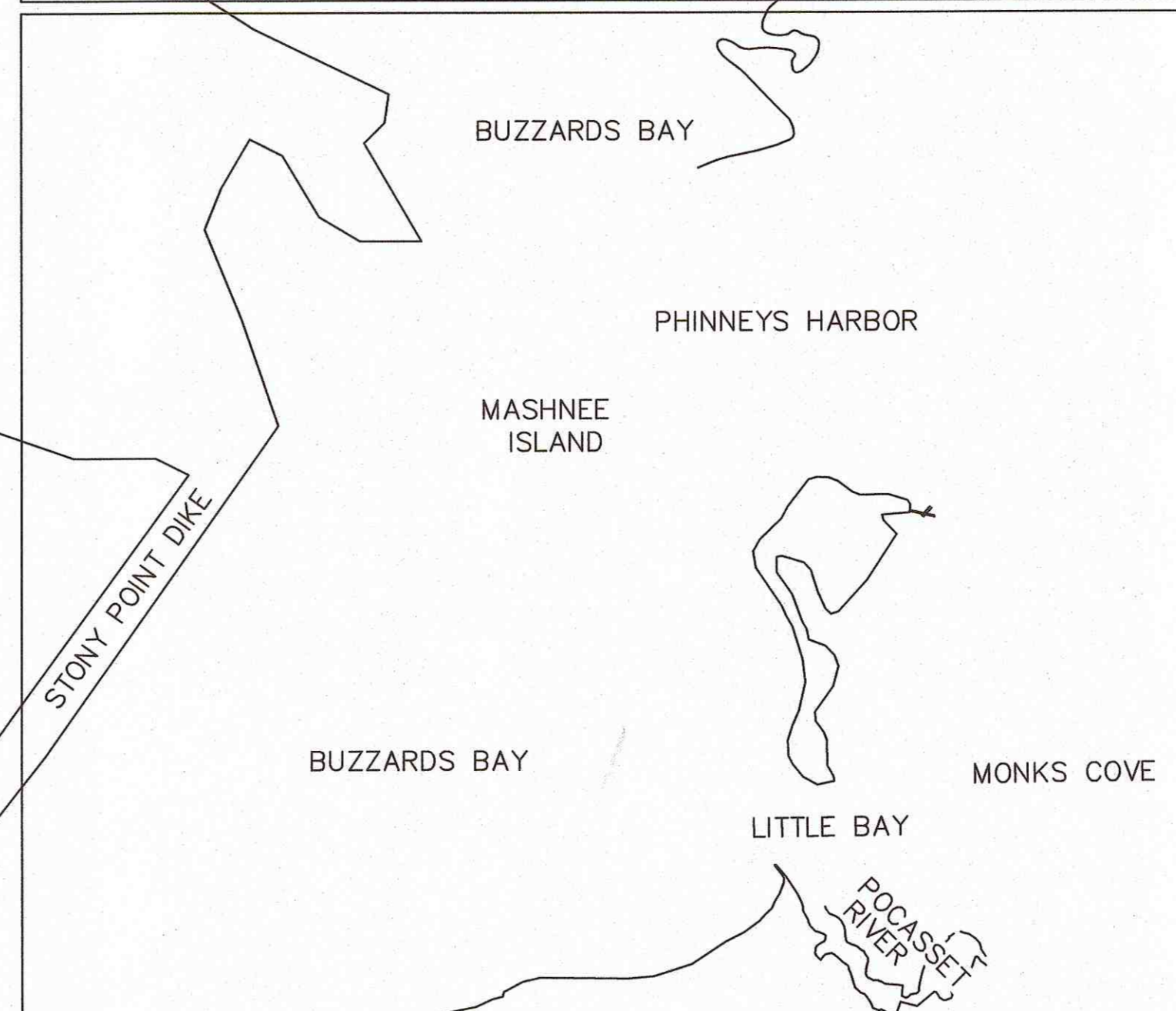
MASS MAINLAND COORDINATES

- NOTES:
- ELEVATIONS ABOVE THE PLANE OF MLW ARE SHOWN AS NEGATIVE NUMBERS.
 - ELEVATIONS DEPICTED ON THIS PLAN ARE BASED ON THE 1983-2001 TIDAL EPOCH.
 - CONVERSION FROM NGVD 1929 TO MLW (NGVD+1.22=MLW)
 - REFERENCE BENCH MARK FOR DATUM CONVERSION: PID# LW1522 DESIGNATION 844-7270 TIDAL 2
NAVD 88 ELEVATION=8.93
NGVD 1929 ELEVATION=9.82
MLW ELEVATION=11.04
 - REFERENCE SITE BENCH MARK IS RM 29 AS DEPICTED ON FEMA FLOOD MAP
NGVD 1929 ELEV.=9.25
MLW =10.47
 - HORIZONTAL DATUM IS BASED ON THE MASSACHUSETTS MAINLAND NAD83 COORDINATE SYSTEM.
 - REFERENCE DPW CONTRACT 2121 DATED JUNE 14, 1960 AND DEPARTMENT OF THE ARMY SMALL NAVIGATION PROJECT REPORT, RED BROOK HARBOR DATED JUNE 21, 1968.
 - REFERENCE POCASSET HARBOR DREDGING PLAN DATED JANUARY 14, 1981 BY ANDERSON NICHOLS ENGINEERS.
 - REFERENCE "PROPOSED DREDGING ENTRANCE CHANNEL AND UNCLE JIM'S COVE" POCASSET RIVER BOURNE, DATED SEPTEMBER 1966 BY DPW OF MASSACHUSETTS DIVISION OF WATERWAYS.
 - "SURVEY BEFORE DREDGING BARLOW'S RIVER", DATED APRIL 1951, BY DPW OF MASSACHUSETTS DIVISION OF WATERWAYS.
 - "PROPOSED EXCAVATION BARLOW'S RIVER", DATED APRIL 1940 BY DPW OF MASSACHUSETTS, DIVISION OF WATERWAYS.
 - "PROPOSED HARBOR DEVELOPMENT POCASSET RIVER", DATED JANUARY 1961, BY WALTER E. ROWLEY & ASSOCIATES.
 - PLAN REFERENCE BSC CHAPTER 91 PLANS #11194, DPW DIVISION OF WATERWAYS PLANS #1487, DEQE LICENSE PLAN 702, DPW PLANS #2252 AND DPW CONTRACT PLANS #3504.
 - ARMY CORP OF ENGINEERS PLAN "MAINTENANCE DREDGING 7' CHANNEL AND DISPOSAL AREA BUTTERMILK BAY CHANNEL, BOURNE AND WAREHAM, MA W912WJ-13-B-0019"
 - USACE PERMITS
NEDOP-P-30-1975
NEDOP-P-7 1975
NEDOP-D-11-75 1975
NEDOP-P-31-1976
MA POCA-77-099-1977
NAE DOD-R-15-81-489C-1981
USACE CAT II PERMIT 20061480-2007
WATER QUALITY CERTIFICATION W078807-2007
 - A 25' BUFFER FROM EXISTING SALT MARSH AREAS SHALL BE MAINTAINED FOR BOTH NOURISHMENT AND DREDGING.
 - A 100' BUFFER FROM EXISTING EELGRASS SHALL BE MAINTAINED FOR BOTH NOURISHMENT AND DREDGING.



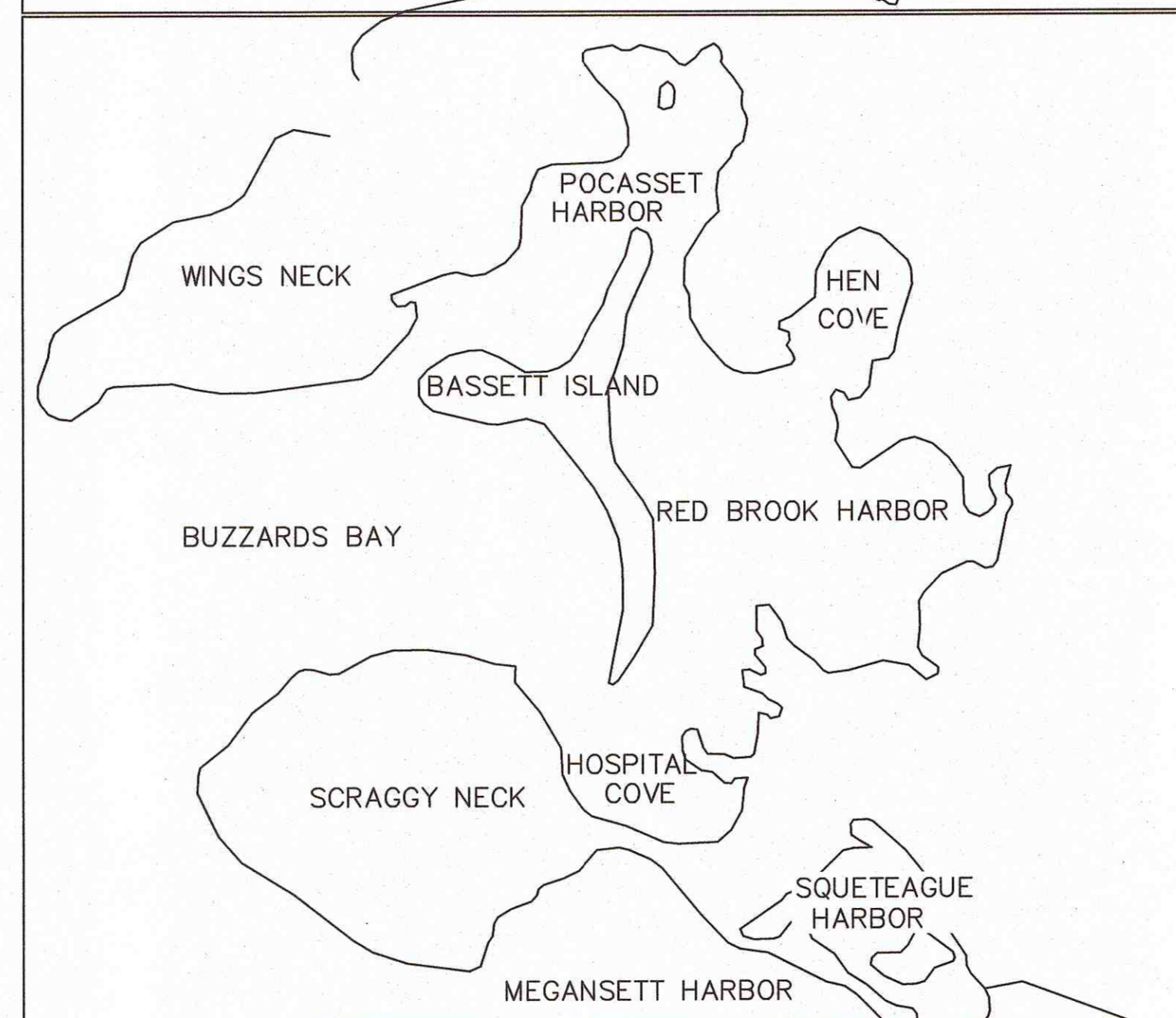
PHASE I (NORTHERLY AREA)

LITTLE BUTTERMILK BAY
BUTTERMILK BAY
COHASSET NARROWS
GIBBS NARROWS
GRAY GABLES
SHEET 2-9



PHASE II (CENTRAL AREA)

MONUMENT BEACH
PHINNEYS HARBOR
LITTLE BAY
POCASSET RIVER
MONKS COVE (NEW NOURISHMENT AREA)
SHEET 10-16



PHASE III (SOUTHERLY AREA)

POCASSET HARBOR
BARLOWS LANDING
RED BROOK HARBOR
HEN COVE
HOSPITAL COVE
SQUETEAGUE HARBOR (NEW NOURISHMENT AREA)
SHEET 17-27



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

TOWN OF BOURNE
TEN YEAR
COMPREHENSIVE
DREDGING &
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NOTICE OF INTENT

IN
BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)

PHASE KEY SHEET

NOVEMBER 9, 2018

REVISIONS:

NO.	DATE	DESC.
1.	2/6/19	NATURAL HERITAGE EDITS
2.	3/29/19	NATURAL HERITAGE EDITS
3.	5/22/19	MARINE FISHERIES EDITS

PREPARED FOR:
TOWN OF BOURNE
BOARD OF SELECTMEN
24 PERRY AVENUE
BOURNE, MA 02532

BSC GROUP
349 Main Street - Route 28
West Yarmouth, Massachusetts
02673
508 778 8919

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SCALE: 1" = 2000'
0 1000 2000 4000 FEET

PHASE I (NORTHERLY AREA)

LITTLE BUTTERMILK BAY
 BUTTERMILK BAY
 COHASSET NARROWS
 GREY GABLES
 GIBBS NARROWS




PT NORTHING EASTING

200	2740661.370	899330.3055
201	2740697.127	899365.2541
202	2740975.299	899080.6437
203	2741034.685	898907.8498
204	2740995.264	898730.3528
205	2740214.691	898248.0426
206	2739286.202	897849.3712
207	2738474.970	897923.6979
208	2738248.262	897776.7307
209	2737946.316	896706.0054
210	2736534.183	894812.1116
211	2736276.650	894802.5196
212	2735605.167	894859.6959
213	2735163.481	895162.1281
214	2734802.913	895890.0909
215	2734477.802	896054.3183
216	2734194.386	896050.7745
217	2733812.694	895843.7092
218	2733791.138	895888.899
219	2734181.405	896100.6161
220	2734489.418	896104.4675
221	2734840.325	895927.2097
222	2735202.495	895196.0122
223	2735622.541	894908.3974
224	2736277.845	894852.5987
225	2736508.405	894861.1862
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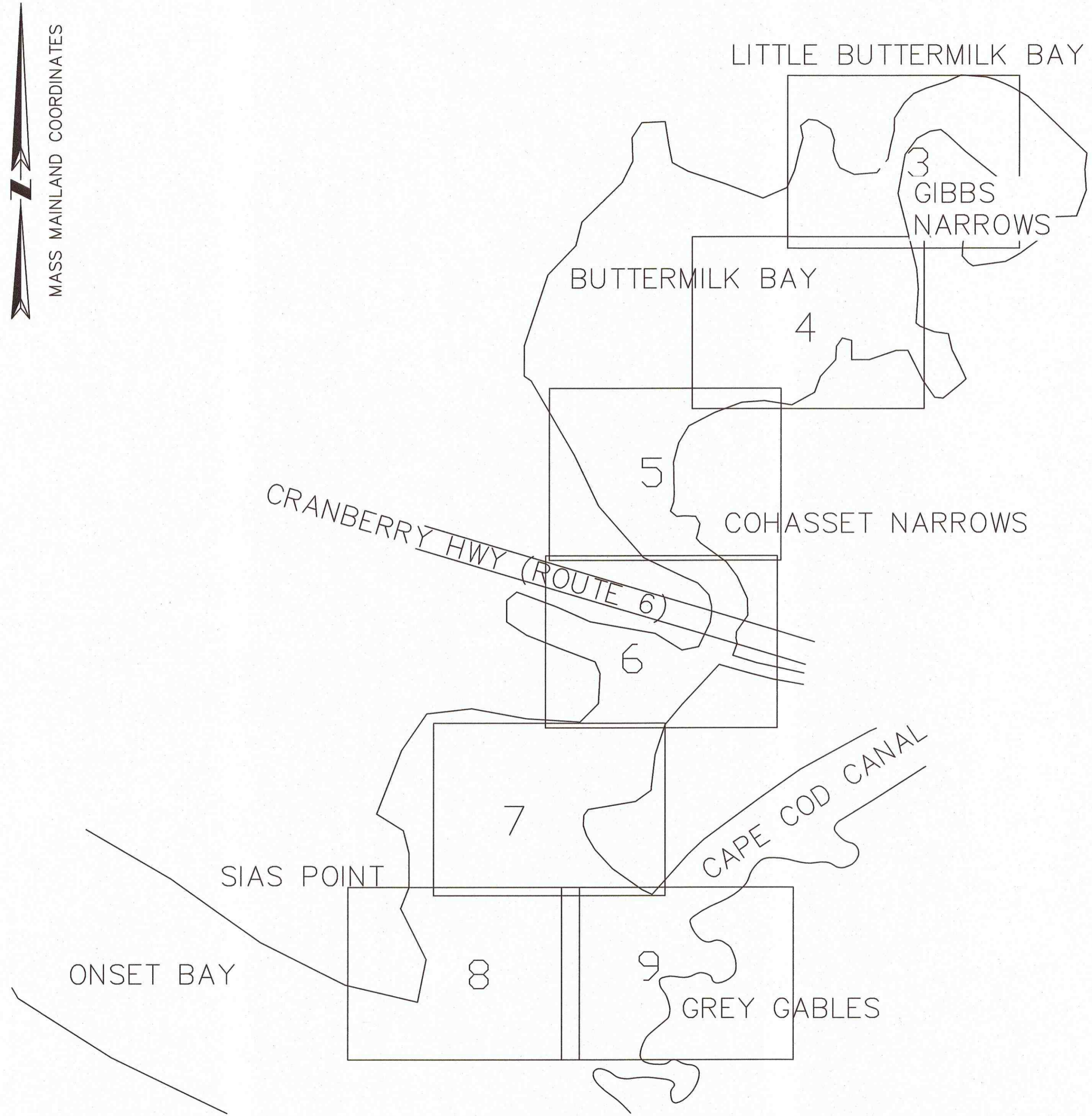
PT NORTHING EASTING

227	2738196.050	897775.8015
228	2738232.436	897826.0586
229	2738462.295	897975.0686
230	2739278.131	897900.3201
231	2740191.560	898292.525
232	2740951.028	898761.795
233	2740982.818	898904.9297
234	2740931.673	899053.7461
235	2733707.214	896064.8392
236	2733619.614	896102.6357
237	2733691.474	895765.5592
238	2733302.684	894871.4292
239	2733227.754	894769.8092
240	2732539.054	894221.9992
241	2732371.884	894113.6992
242	2730937.304	893223.9392
243	2730464.734	892614.2192
244	2730155.974	892502.0092
245	2729900.344	892513.8092
246	2729189.794	893066.1892
247	2729153.474	892967.7592
248	2729864.034	892415.3892
249	2730417.334	892389.8292
250	2731005.304	893150.4492
251	2732424.504	894028.6592
252	2733340.164	894756.9992
253	2730247.6159	894937.0422
254	2729808.1812	895846.4361
255	2729824.0985	895965.1906
256	2729739.2572	896140.7666
257	2729469.1402	896010.2415
258	2729553.9815	895834.6654
259	2729718.1422	895802.9277
260	2730157.5769	894893.5338

LEGEND

-  CHANNEL COORDINATE POINT TYP.
-  NEW BORING
-  OLD BORING

MASS MAINLAND COORDINATES



TO
 BEACH
 SHEET 27



Craig A. Field 5-22-19
 CRAIG A. FIELD DATE
 PROFESSIONAL LAND SURVEYOR

TOWN OF BOURNE
 TEN YEAR
 COMPREHENSIVE
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IN
 BOURNE
 MASSACHUSETTS
 (BARNSTABLE COUNTY)


PHASE I KEY SHEET
 NOVEMBER 9, 2018

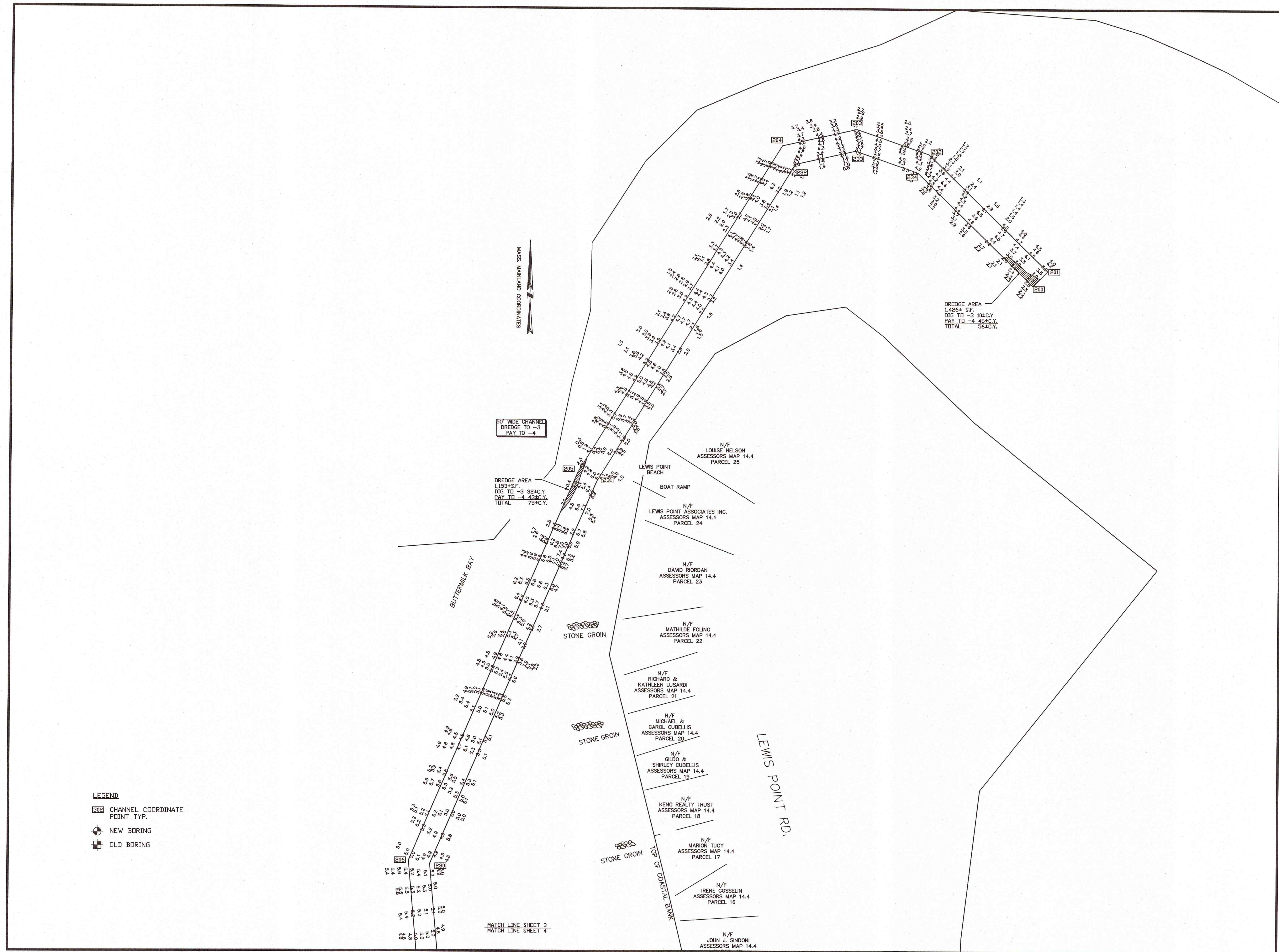
REVISIONS:

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3.	5/22/19	MARINE FISHERIES EDITS

PREPARED FOR:
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 BOARD OF SELECTMEN
 24 PERRY AVENUE
 BOURNE, MA 02532

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 SCALE: 1" = 1000'




Craig A. Field 5-22-19
 CRAIG A. FIELD DATE
 PROFESSIONAL LAND SURVEYOR

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 MASSACHUSETTS
 (BARNSTABLE COUNTY)

**PHASE I
 HYDROGRAPHIC
 SURVEY PLAN**
 NOVEMBER 9, 2018

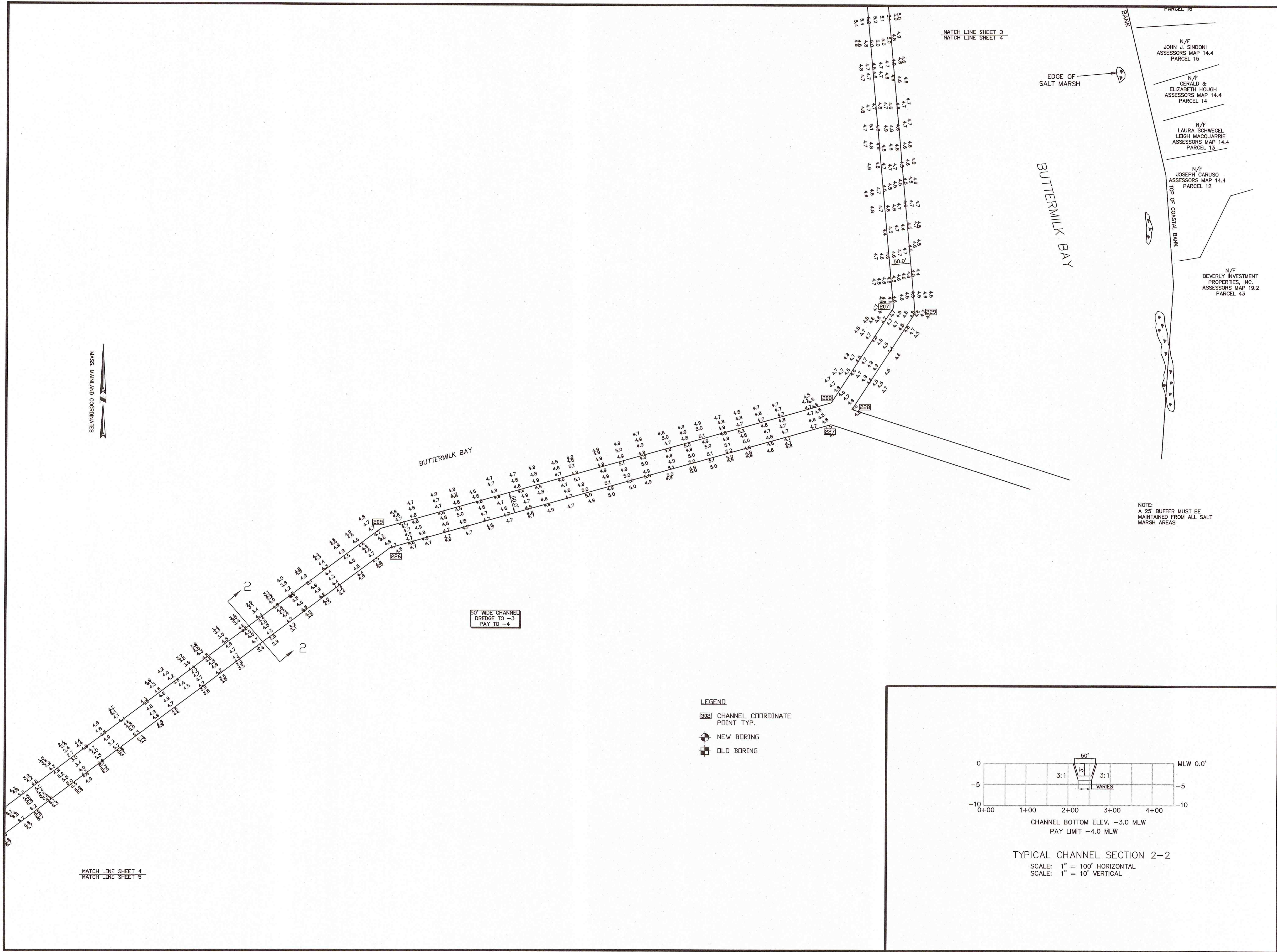
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 0 50 100 200 FEET



MASS. MAINLAND COORDINATES

MATCH LINE SHEET 3
MATCH LINE SHEET 4

EDGE OF SALT MARSH

BUTTERMILK BAY

PARCEL 16
N/F JOHN J. SINDONI ASSESSORS MAP 14.4 PARCEL 15
N/F GERALD & ELIZABETH HOUGH ASSESSORS MAP 14.4 PARCEL 14
N/F LAURA SCHWEGEL LEIGH MACQUARRIE ASSESSORS MAP 14.4 PARCEL 13
N/F JOSEPH CARUSO ASSESSORS MAP 14.4 PARCEL 12
N/F BEVERLY INVESTMENT PROPERTIES, INC. ASSESSORS MAP 19.2 PARCEL 43

NOTE:
A 25' BUFFER MUST BE MAINTAINED FROM ALL SALT MARSH AREAS

MATCH LINE SHEET 4
MATCH LINE SHEET 5



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
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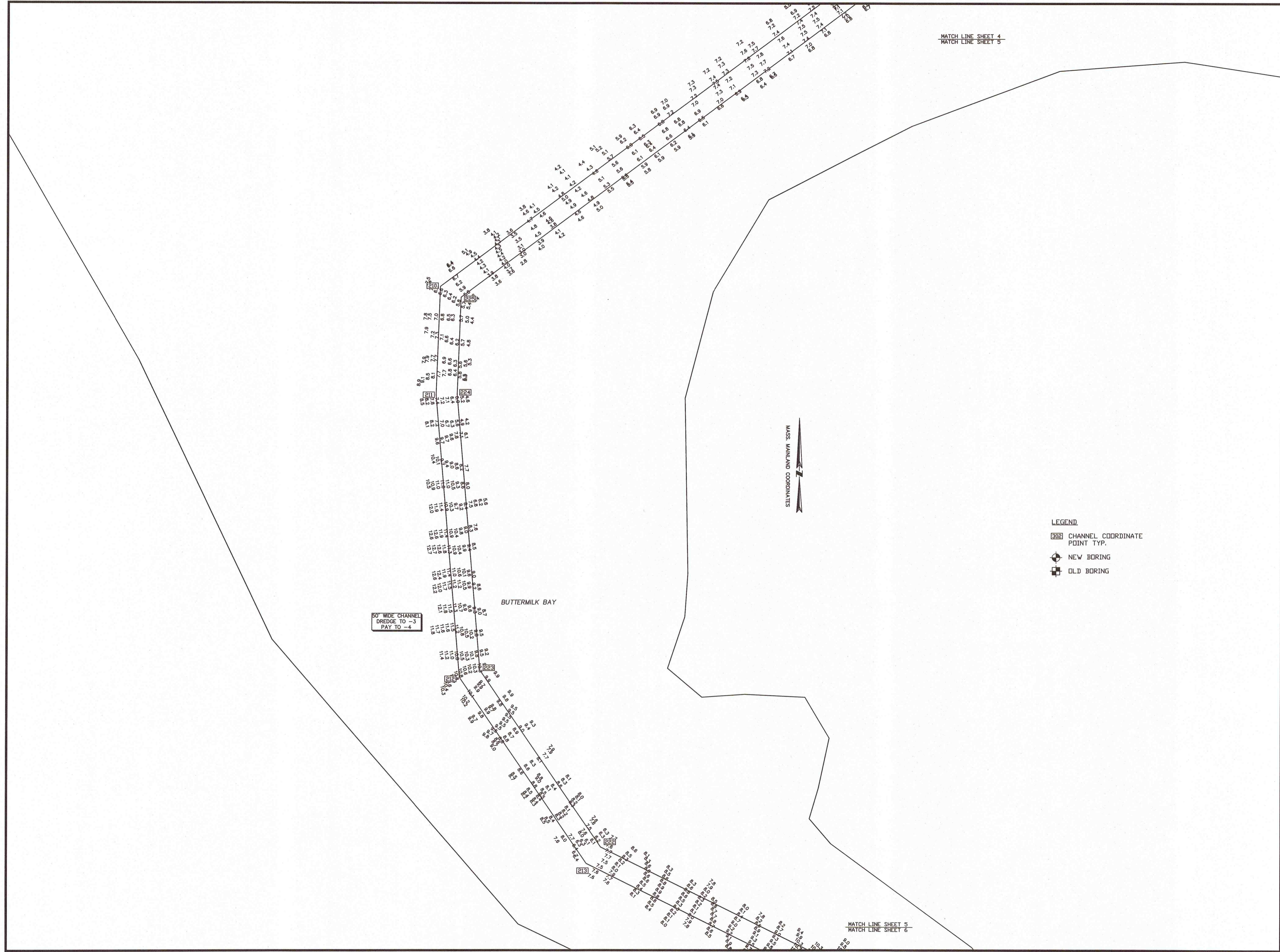
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0 50 100 200 FEET

FILE: 48075-COMP.DWG
DWG.: 6517-01
JOB. NO: 48075.08 SHEET 4 OF 27



MATCH LINE SHEET 4
MATCH LINE SHEET 5



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
TEN YEAR
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IN
BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)

PHASE I
HYDROGRAPHIC
SURVEY PLAN
NOVEMBER 9, 2018

LEGEND

- CHANNEL COORDINATE POINT TYP.
- NEW BORING
- OLD BORING

REVISIONS:

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PREPARED FOR:
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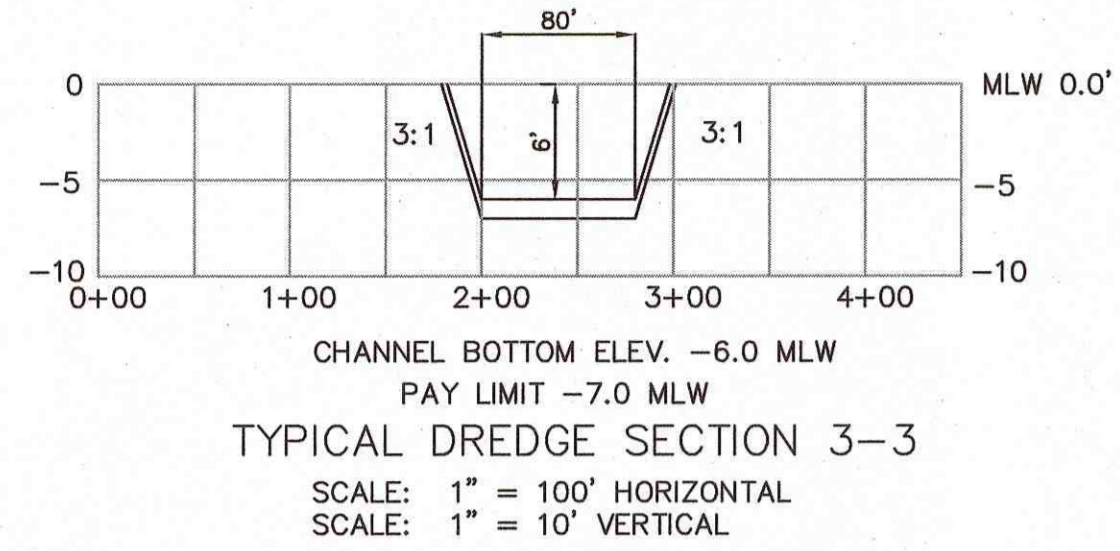
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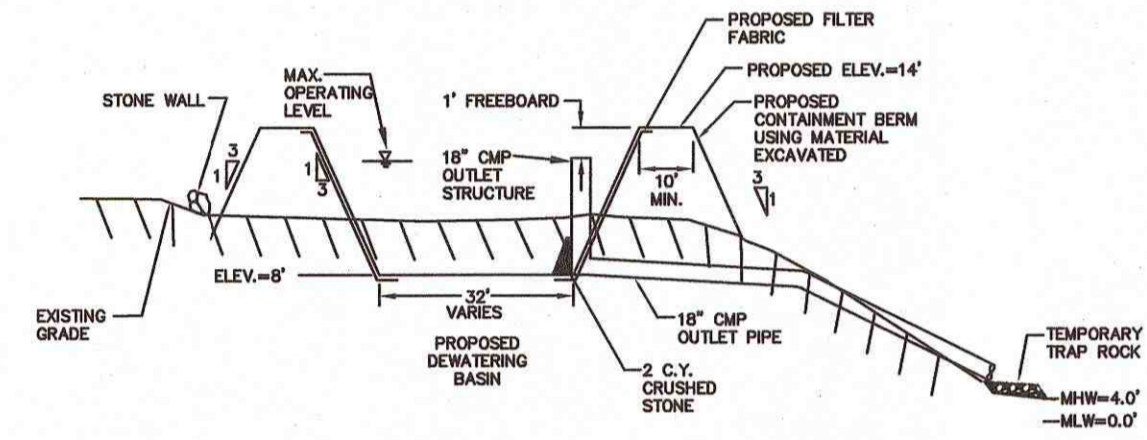
SCALE: 1" = 100'



FILE: 48075-COMP.DWG
DWG.: 6517-01
JOB. NO: 48075.08



NOTES:
A. THE DEWATERING BASIN SHALL BE EXCAVATED SO THE DREDGE SPOILS DO NOT EXTEND ABOVE THE RIM OF THE OUTLET CONTROL STRUCTURE. SUITABLE MATERIAL THAT IS DREDGED FROM THE BASIN SHALL BE SPREAD ON THE BEACH AND UNSUITABLE MATERIAL DISPOSED OF AS REQUIRED.
B. 16,857± S.F. OF EXISTING BEACH TO BE NOURISHED WITH DREDGE SPOILS



DEWATERING NOTES:
1. DEWATERING BASIN TO BE FORMED USING ON SITE SOILS. AFTER DEWATERING, ALL NON-COMPATIBLE SOILS SHALL BE REMOVED FROM THE SITE.
2. ALL SLOPES TO BE 3:1 IN THE DEWATERING BASIN.
3. AREAS DISTURBED BY THE DEWATERING BASIN ARE TO BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION WHEN DREDGING ACTIVITIES ARE COMPLETED.
4. INSTALL 3/4" TO 1-1/2" CRUSHED STONE AROUND STAMPEP FOR STABILITY AS REQUIRED.
5. AVAILABLE LAND AREA LIMITS THE SIZE OF THE DEWATERING BASIN. DEWATERING WILL REQUIRE PHASING.

MASS. MAINLAND COORDINATES

NOTE:
PHASE 1 SOUNDINGS DEPICTED SOUTH OF CHANNEL POINT #217, WERE COMPILED FROM ACOE PLANS DATED 9/12/13 ENTITLED "MAINTENANCE DREDGING 7 FOOT CHANNEL AND DISPOSAL AREA BUTTERMILK BAY CHANNEL BOURNE AND WAREHAM, MA W812WJ-13-B-0019".

LEGEND
 CHANNEL COORDINATE POINT TYP.
 NEW BORING
 OLD BORING



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

TOWN OF BOURNE
TEN YEAR
COMPREHENSIVE
DREDGING &
DISPOSAL PERMIT TO
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IN
BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)

PHASE I
HYDROGRAPHIC
SURVEY PLAN
NOVEMBER 9, 2018

REVISIONS:

NO.	DATE	DESC.
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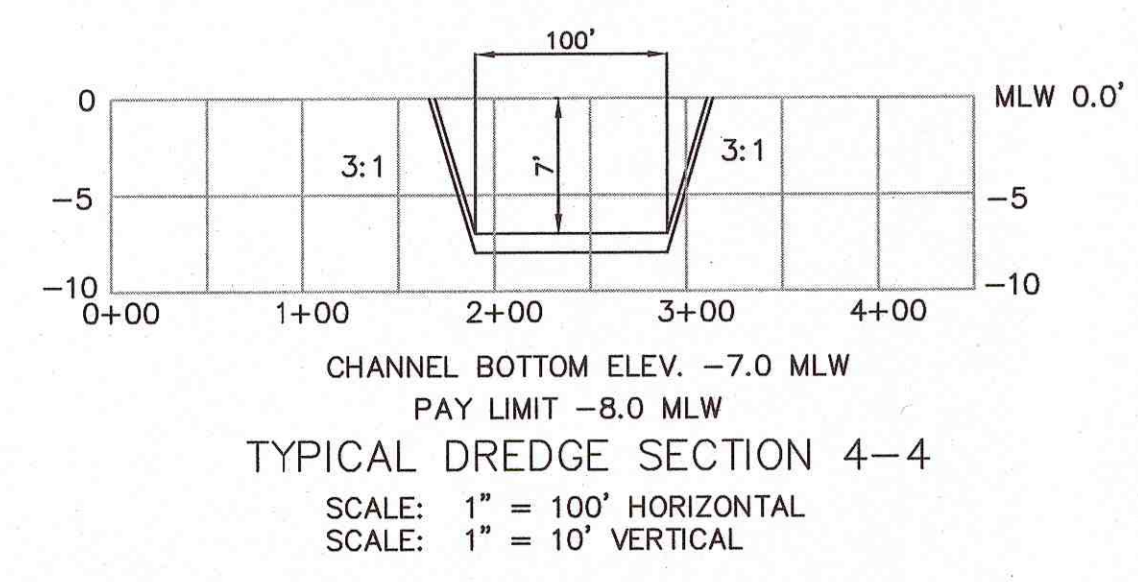
PREPARED FOR:
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BOARD OF SELECTMEN
24 PERRY AVENUE
BOURNE, MA 02532

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SCALE: 1" = 100'
0 50 100 200 FEET

FILE: 48075-COMP.DWG
DWG.: 6517-01
JOB. NO: 48075.08 SHEET 6 OF 27

MATCH LINE SHEET 6
MATCH LINE SHEET 7



MASS. MAINLAND COORDINATES

- LEGEND
- 302 CHANNEL COORDINATE POINT TYP.
 - NEW BORING
 - OLD BORING

NOTE:
PHASE 1 SOUNDINGS DEPICTED SOUTH OF CHANNEL POINT #217, WERE COMPILED FROM ACOE PLANS DATED 9/12/13 ENTITLED "MAINTENANCE DREDGING 7 FOOT CHANNEL AND DISPOSAL AREA BUTTERMILK BAY CHANNEL BOURNE AND WAREHAM, MA W912WJ-13-B-0019".

MATCH LINE SHEET 7
MATCH LINE SHEET 8

MATCH LINE SHEET 7
MATCH LINE SHEET 9



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

TOWN OF BOURNE
TEN YEAR
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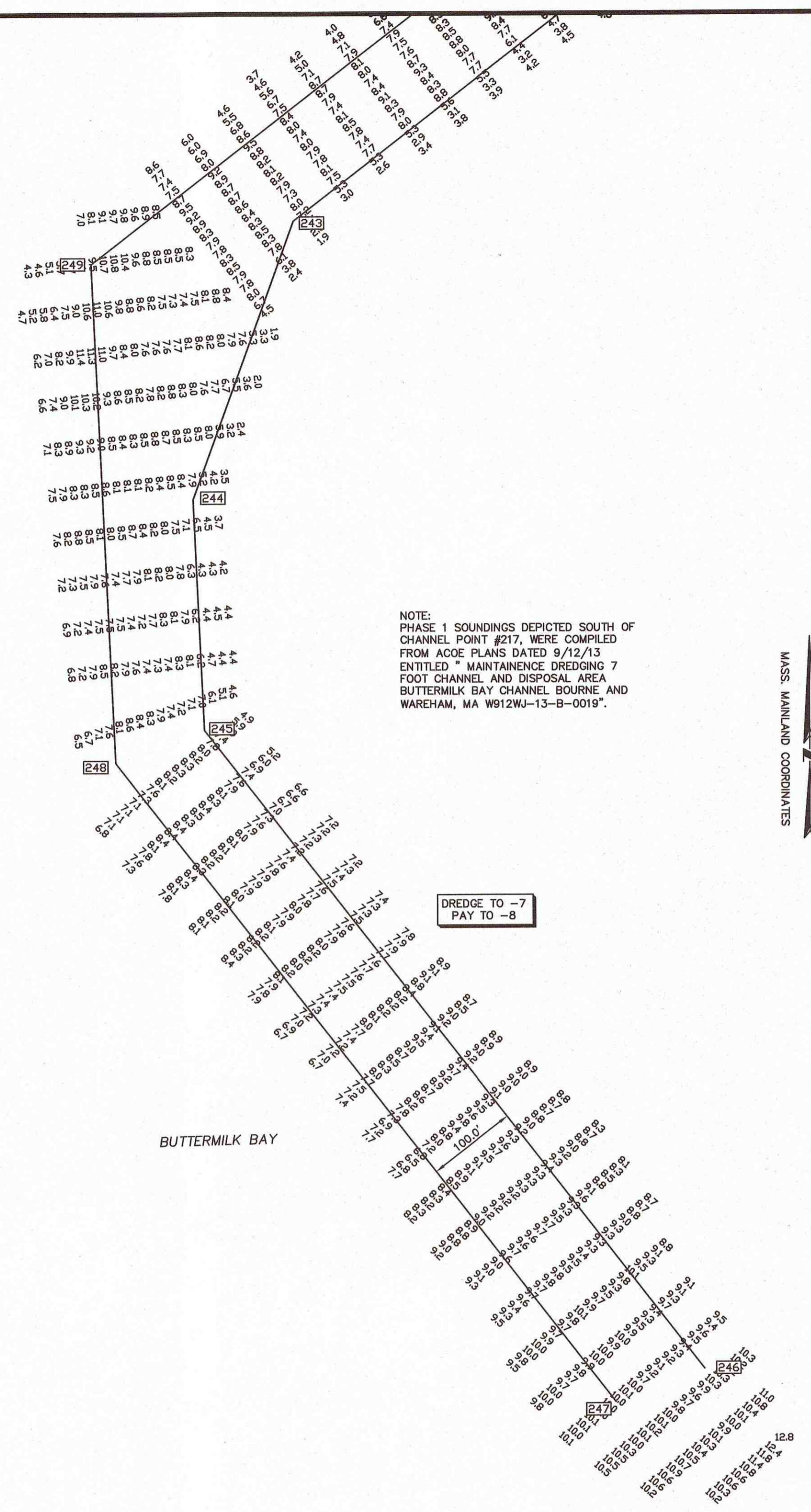
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0 50 100 200 FEET

FILE: 48075-COMP.DWG
DWG: 6517-01 SHEET 7 OF 27
JOB. NO: 48075.08

MATCH LINE SHEET 7
MATCH LINE SHEET 8



NOTE:
PHASE I SOUNDINGS DEPICTED SOUTH OF
CHANNEL POINT #217, WERE COMPILED
FROM ACOE PLANS DATED 9/12/13
ENTITLED " MAINTENANCE DREDGING 7
FOOT CHANNEL AND DISPOSAL AREA
BUTTERMILK BAY CHANNEL BOURNE AND
WAREHAM, MA W912WJ-13-B-0019".

MASS. MANLAND COORDINATES

DREDGE TO -7
PAY TO -8

BUTTERMILK BAY

LEGEND
 CHANNEL COORDINATE POINT TYP.
 NEW BORING
 OLD BORING



Craig A. Field 5-22-19
 CRAIG A. FIELD DATE
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FILE: 48075-COMP.DWG
 DWG.: 6517-01
 JOB. NO: 48075.08 SHEET 8 OF 27

MATCH LINE SHEET 7
MATCH LINE SHEET 9

LIMIT OF 500' WIDE CAPE COD CANAL

LIMIT OF 500' WIDE CAPE COD CANAL




MATCH LINE SHEET 8
MATCH LINE SHEET 9

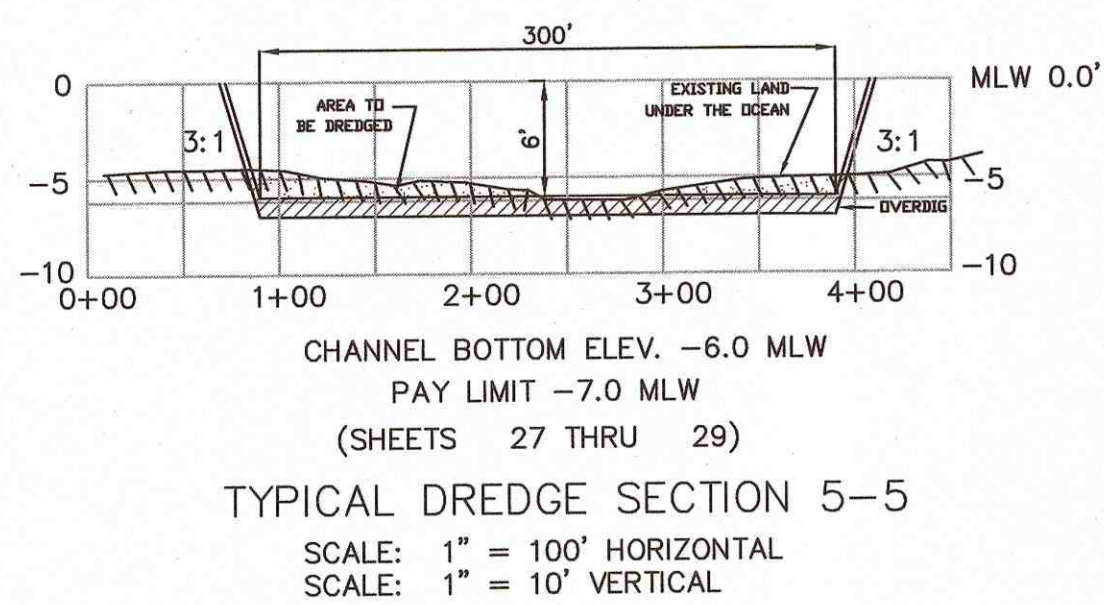
MASS. MAINLAND COORDINATES

PROPOSED DREDGE AREA
121,775±S.F.
DIG -6 4,860±C.Y.
PAY -7 4,531±C.Y.
TOTAL 9,391±C.Y.

DREDGE TO -6
PAY TO -7

NOTE:
A 25' BUFFER MUST BE
MAINTAINED FROM ALL SALT
MARSH AREAS

LEGEND
 CHANNEL COORDINATE POINT TYP.
 NEW BORING
 OLD BORING



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

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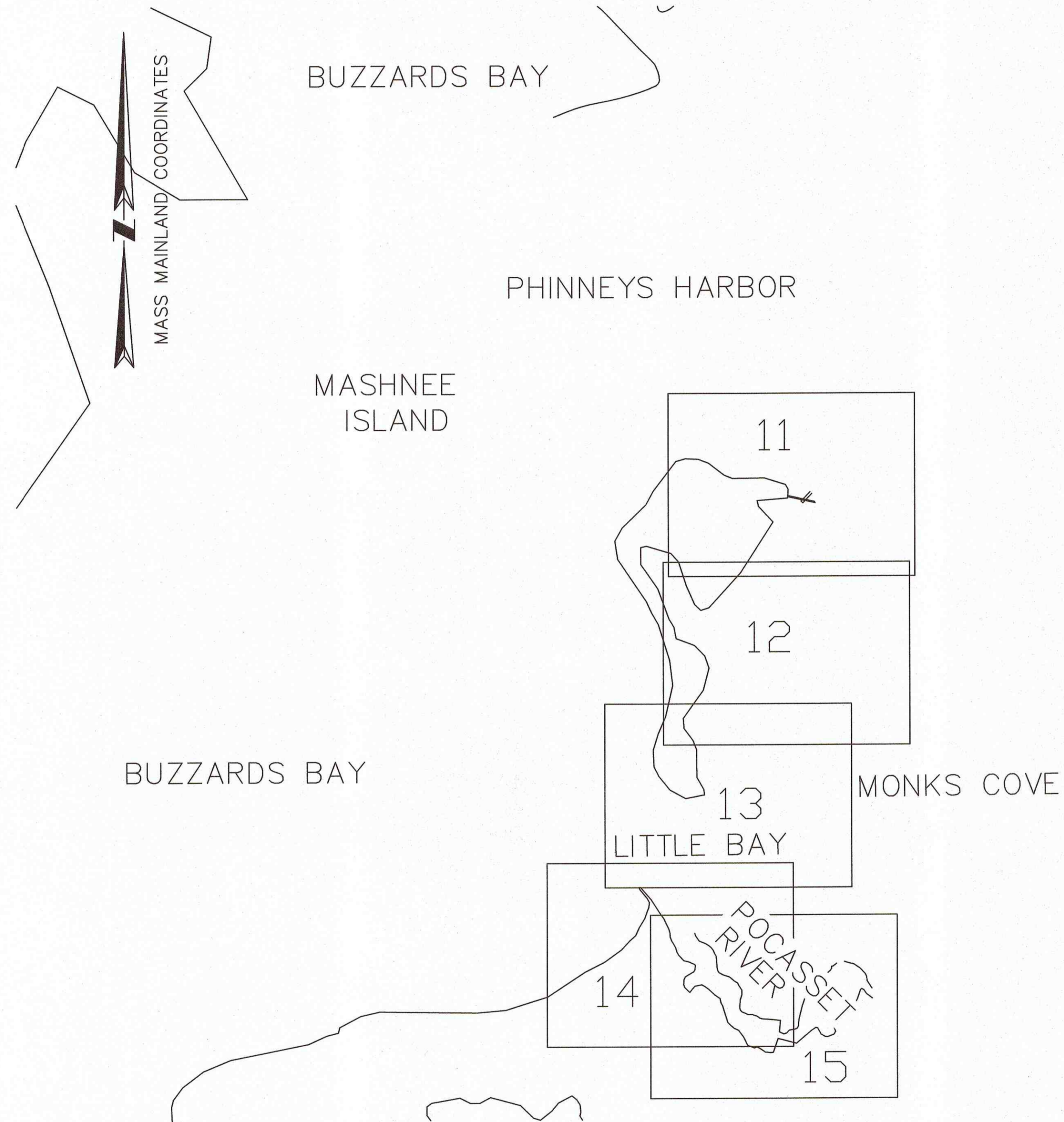
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SCALE: 1" = 100'
0 50 100 200 FEET

FILE: 48075-COMP.DWG
DWG: 6517-01
JOB. NO: 48075.08 SHEET 9 OF 27

PHASE II (CENTRAL AREA)

PHINNEYS HARBOR
LITTLE BAY
POCASSET RIVER
MONKS COVE



PT	NORTHING	EASTING	PT	NORTHING	EASTING
261	2722393.158	897554.4015	290	2718773.716	896456.7093
262	2722484.406	897438.6554	291	2719813.089	896575.1309
263	2722359.253	897368.2233	292	2716927.098	895423.2812
264	2722440.690	897220.4671	293	2716764.479	895559.7309
265	2722190.289	897201.8705	294	2716603.057	895713.7075
266	2722131.056	897233.0343	295	2716401.634	895856.9867
267	2722284.380	897061.5036	296	2716256.852	895893.4991
268	2722247.159	897028.1175	297	2715800.421	896216.8886
269	2722026.387	897274.2458	298	2715608.845	896266.2693
270	2722008.481	897228.5669	299	2715410.838	896512.5539
271	2721959.863	897181.8994	300	2715381.912	896579.2642
272	2721952.577	897188.7674	301	2715386.242	896820.8792
273	2721878.136	897117.3119	302	2715286.258	896822.6707
274	2721724.631	897060.1594	303	2715284.701	896735.7749
275	2721714.309	897088.2215	304	2715180.959	896690.7920
276	2721861.906	897143.1783	305	2715268.759	896488.3034
277	2721931.803	897210.2722	306	2715404.789	896424.3212
278	2721925.377	897217.8265	307	2715574.571	896213.1426
279	2721962.472	897253.4336	308	2715774.748	896161.5450
280	2721797.647	897039.9133	309	2716222.165	895844.5419
281	2721772.429	897136.7131	310	2716297.298	895710.3103
282	2719795.969	896673.8273	311	2716498.721	895567.0311
283	2718762.396	896556.0665	312	2716725.912	895513.7677
284	2718038.005	896473.5326	313	2716888.532	895377.3179
285	2717793.804	896166.5295			
286	2717955.816	894935.9246			
287	2718054.961	894948.9773			
288	2717898.489	896137.4978			
289	2718090.481	896378.8644			

LEGEND

	CHANNEL COORDINATE POINT TYP.
	NEW BORING
	OLD BORING



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

TOWN OF BOURNE
TEN YEAR
COMPREHENSIVE
DREDGING &
DISPOSAL PERMIT TO
ACCOMPANY A
NOTICE OF INTENT

IN
BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)

PHASE II KEY SHEET

NOVEMBER 9, 2018

REVISIONS:

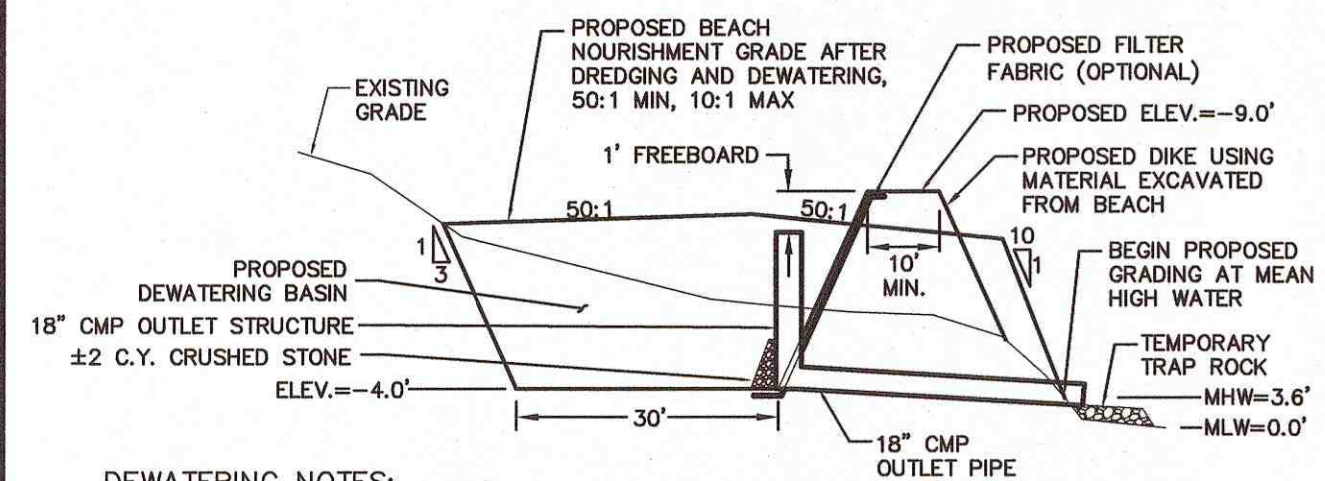
NO.	DATE	DESC.
1.	2/6/19	NATURAL HERITAGE EDITS
2.	3/29/19	NATURAL HERITAGE EDITS
3.	5/22/19	MARINE FISHERIES EDITS

PREPARED FOR:
TOWN OF BOURNE
BOARD OF SELECTMEN
24 PERRY AVENUE
BOURNE, MA 02532

BSC GROUP
349 Main Street - Route 28
West Yarmouth, Massachusetts
02673
508 778 8919

© 2019 The BSC Group, Inc.
SCALE: 1" = 1000'
0 500 1000 2000 FEET

FILE: 48075-COMP.DWG
DWG.: 6517-01 SHEET 10 OF 27
JOB. NO: 48075.08

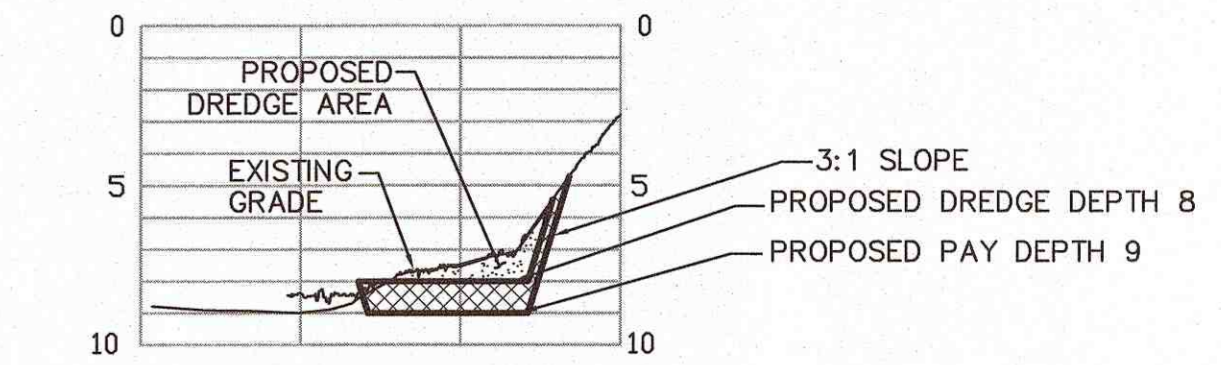


- DEWATERING NOTES:**
1. DEWATERING BASIN TO BE FORMED USING ON SITE SOILS. AFTER DEWATERING, ALL NON-COMPATIBLE SOILS SHALL BE REMOVED FROM THE SITE.
 2. ALL SLOPES TO BE 3:1 IN THE DEWATERING BASIN.
 3. AREAS DISTURBED BY THE DEWATERING BASIN ARE TO BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION WHEN DREDGING ACTIVITIES ARE COMPLETED.
 4. INSTALL 3/4" TO 1-1/2" CRUSHED STONE AROUND STANDPIPE FOR STABILITY AS REQUIRED.

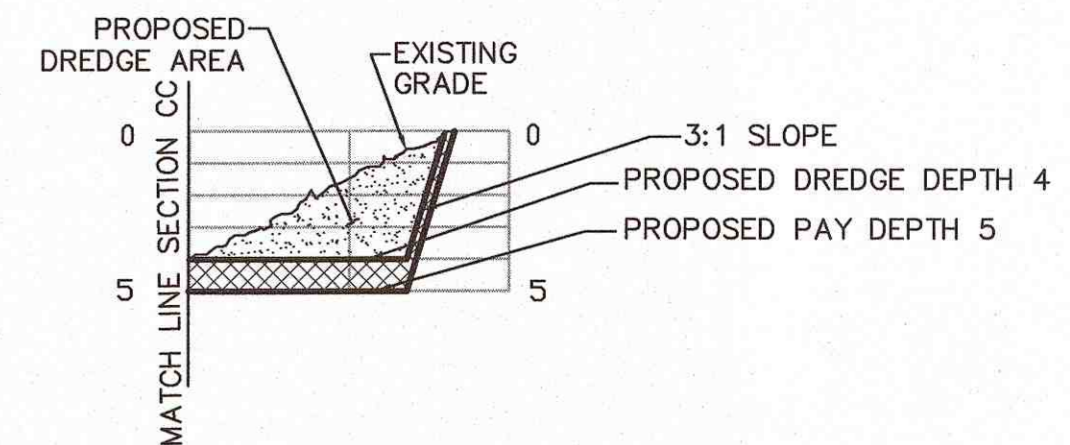
SECTION EE: DEWATERING BASIN
NOT TO SCALE

NOTE

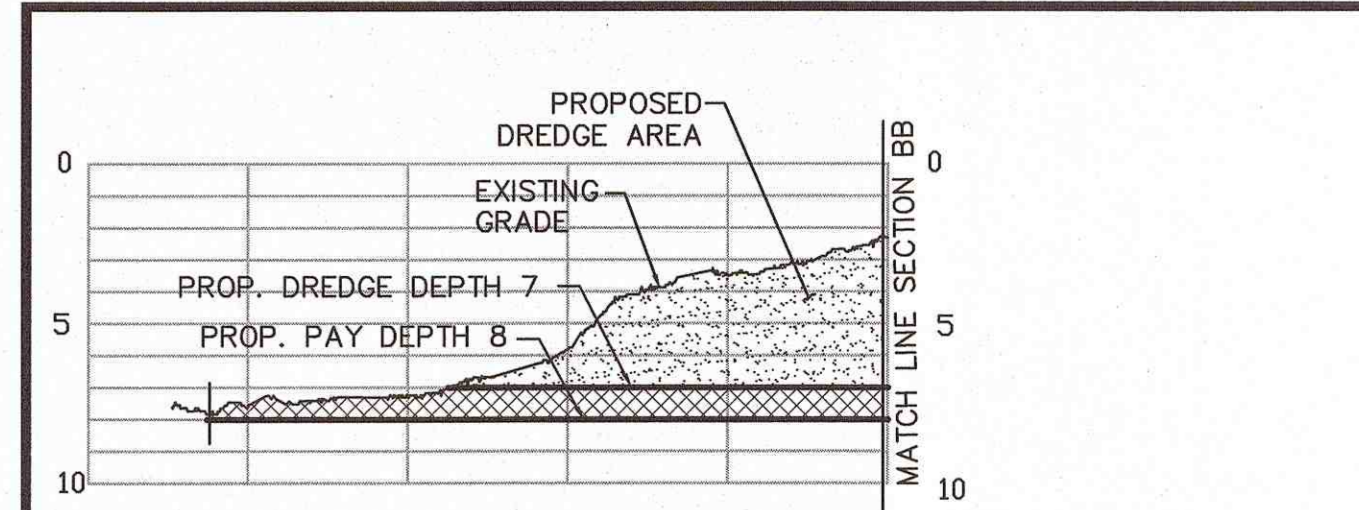
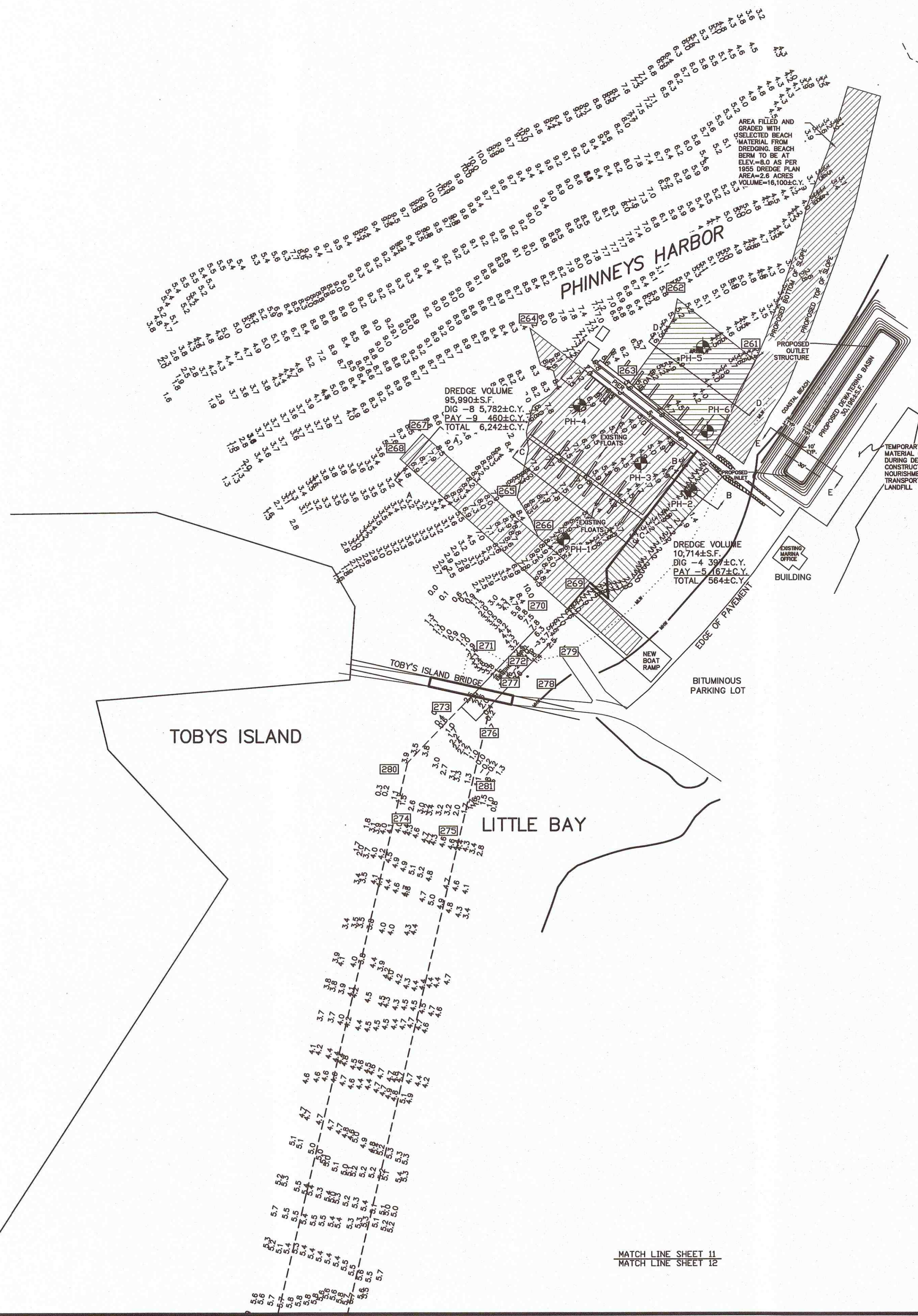
THE DEWATERING BASIN SHALL BE EXCAVATED SO THE DREDGE SPOILS DO NOT EXTEND ABOVE THE RIM OF THE OUTLET CONTROL STRUCTURE. SUITABLE MATERIAL THAT IS EXCAVATED FROM THE BASIN SHALL BE SPREAD ON THE BEACH AND UNSUITABLE MATERIAL DISPOSED OF AS REQUIRED.



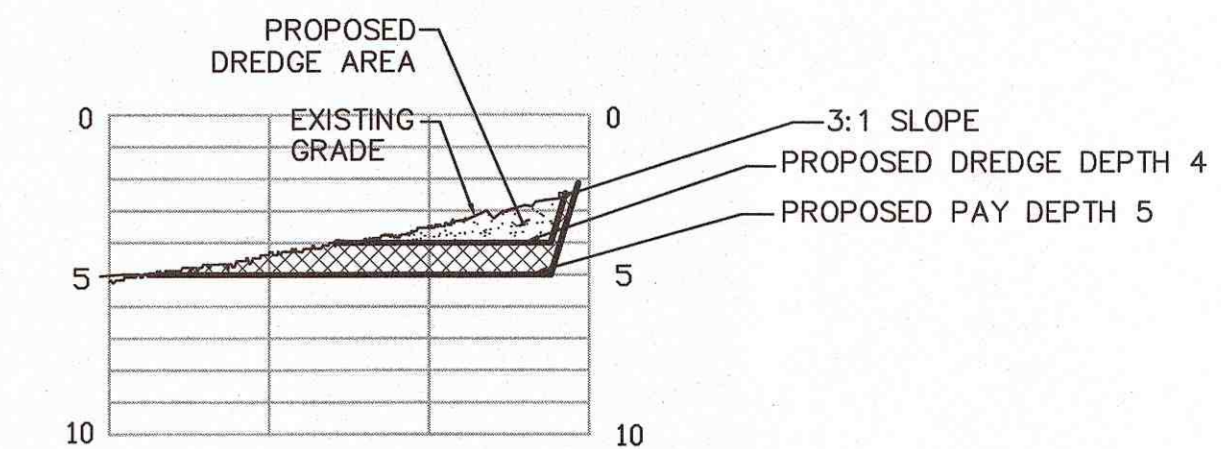
SECTION AA
SCALE: 1"=60' HORIZONTAL
1"=6' VERTICAL



SECTION BB
SCALE: 1"=60' HORIZONTAL
1"=6' VERTICAL



SECTION CC
SCALE: 1"=60' HORIZONTAL
1"=6' VERTICAL



SECTION DD
SCALE: 1"=60' HORIZONTAL
1"=6' VERTICAL

LEGEND

- 302 CHANNEL COORDINATE POINT TYP.
- NEW BORING
- OLD BORING



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
TEN YEAR
COMPREHENSIVE
DREDGING &
DISPOSAL PERMIT TO
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NOTICE OF INTENT**

IN
BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)

PHASE II
HYDROGRAPHIC
SURVEY PLAN
NOVEMBER 9, 2018

REVISIONS:

NO.	DATE	DESC.
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PREPARED FOR:
TOWN OF BOURNE
BOARD OF SELECTMEN
24 PERRY AVENUE
BOURNE, MA 02532

BSC GROUP
349 Main Street - Route 28
West Yarmouth, Massachusetts
02673
508 778 8919

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SCALE: 1" = 100'
0 50 100 200 FEET



MATCH LINE SHEET 11
MATCH LINE SHEET 12

LOCATION OF EXISTING 100' WIDE LITTLE
BAY CHANNEL AS PER TOWN OF
BOURNE HARBOR MASTER, CONNECTING
LITTLE BAY AND PHINNEYS HARBOR

100' WIDE CHANNEL
DREDGE TO -7
PAY TO -8

HYDROGRAPHIC
INFORMATION DEPICTED
SOUTH OF CHANNEL
POINT #282 IS
COMPILED FROM 2014
SURVEY DATA BY BSC

MASS. MAINLAND COORDINATES

MATCH LINE SHEET 12
MATCH LINE SHEET 13

APPROXIMATE
LOCATION OF EXISTING
100' WIDE LITTLE BAY
CHANNEL AS PER
TOWN OF BOURNE
HARBOR MASTER,
CONNECTING LITTLE
BAY AND PHINNEYS
HARBOR



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
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PHASE II
HYDROGRAPHIC
SURVEY PLAN

NOVEMBER 9, 2018

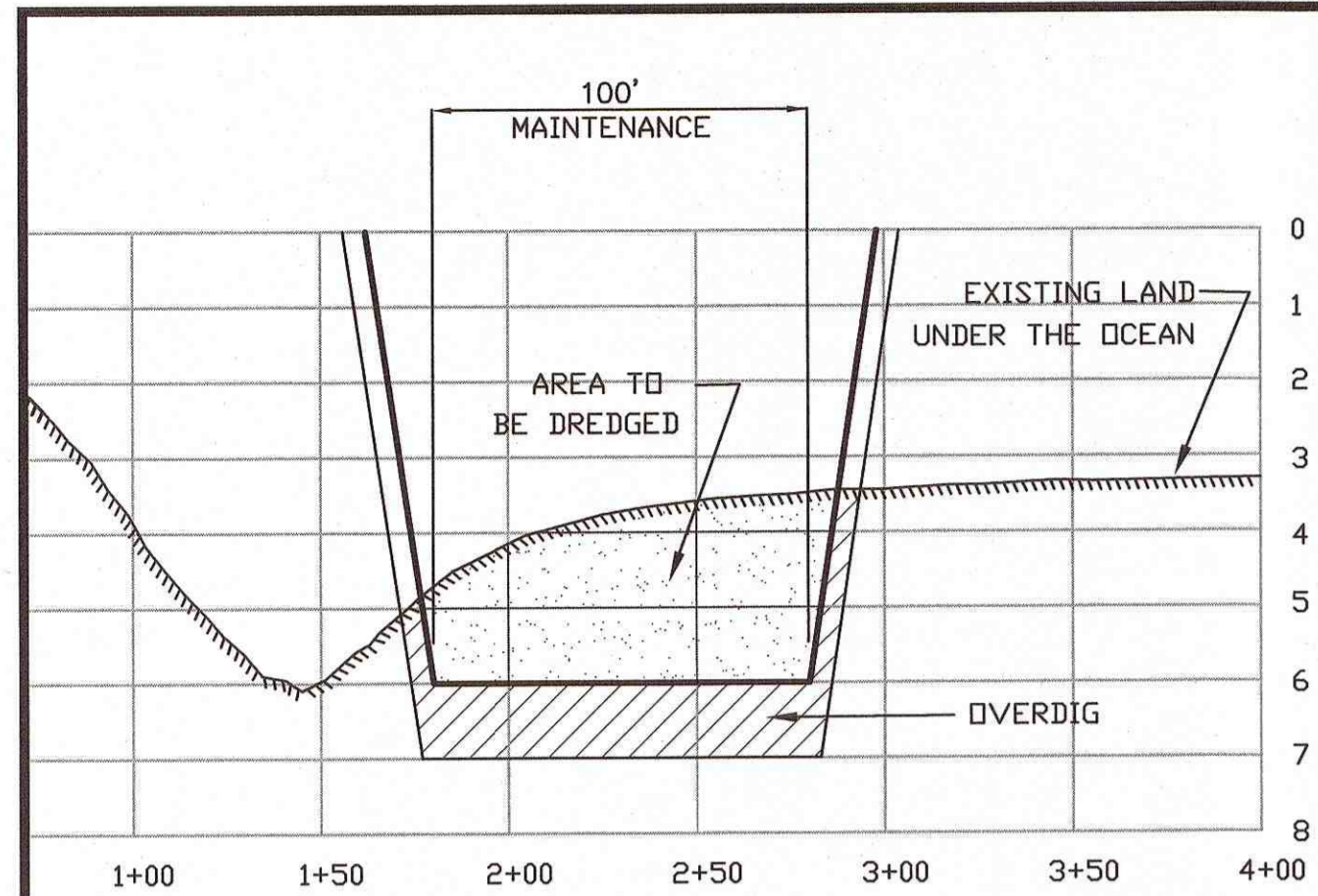
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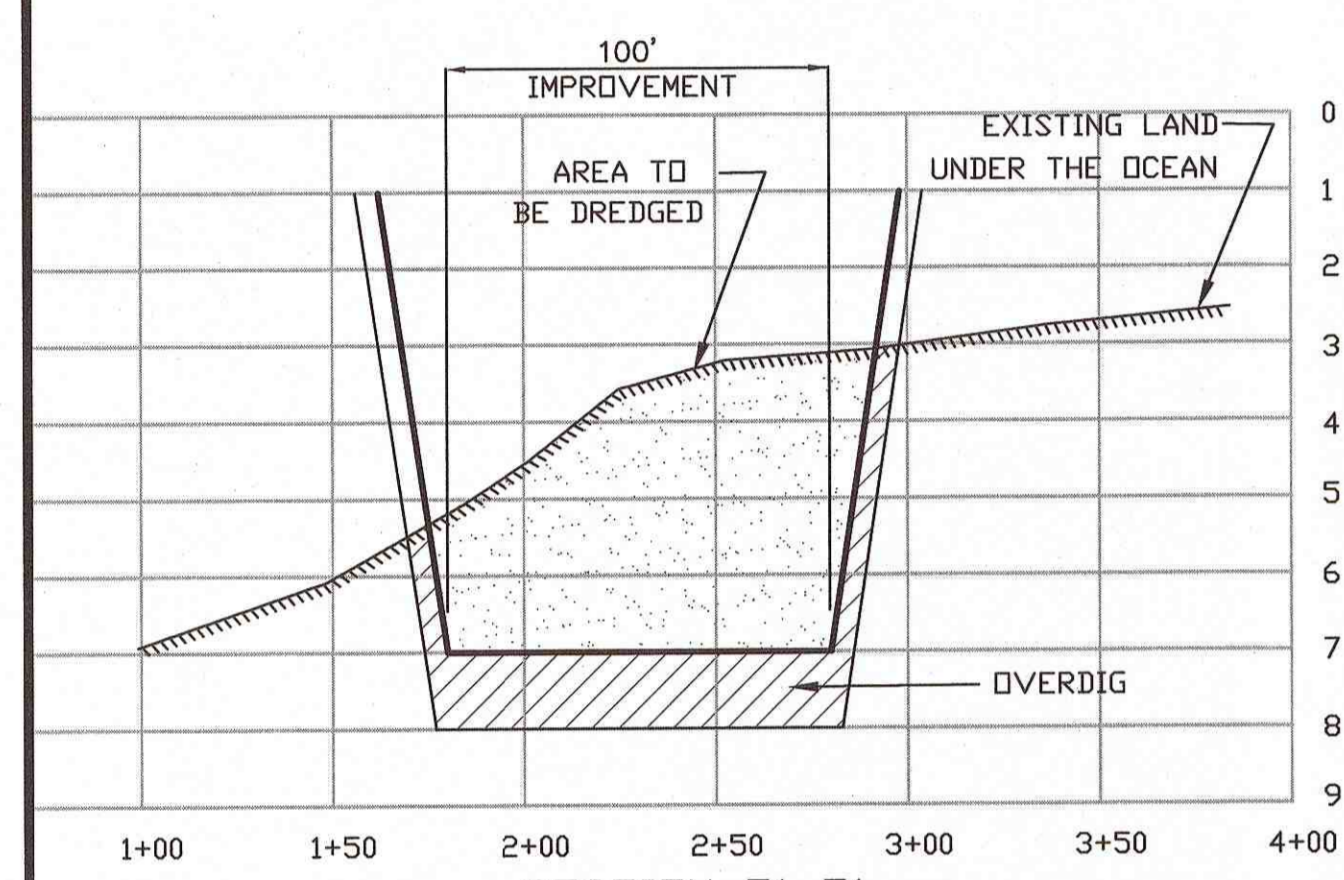
PREPARED FOR:
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BOARD OF SELECTMEN
24 PERRY AVENUE
BOURNE, MA 02532

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349 Main Street - Route 28
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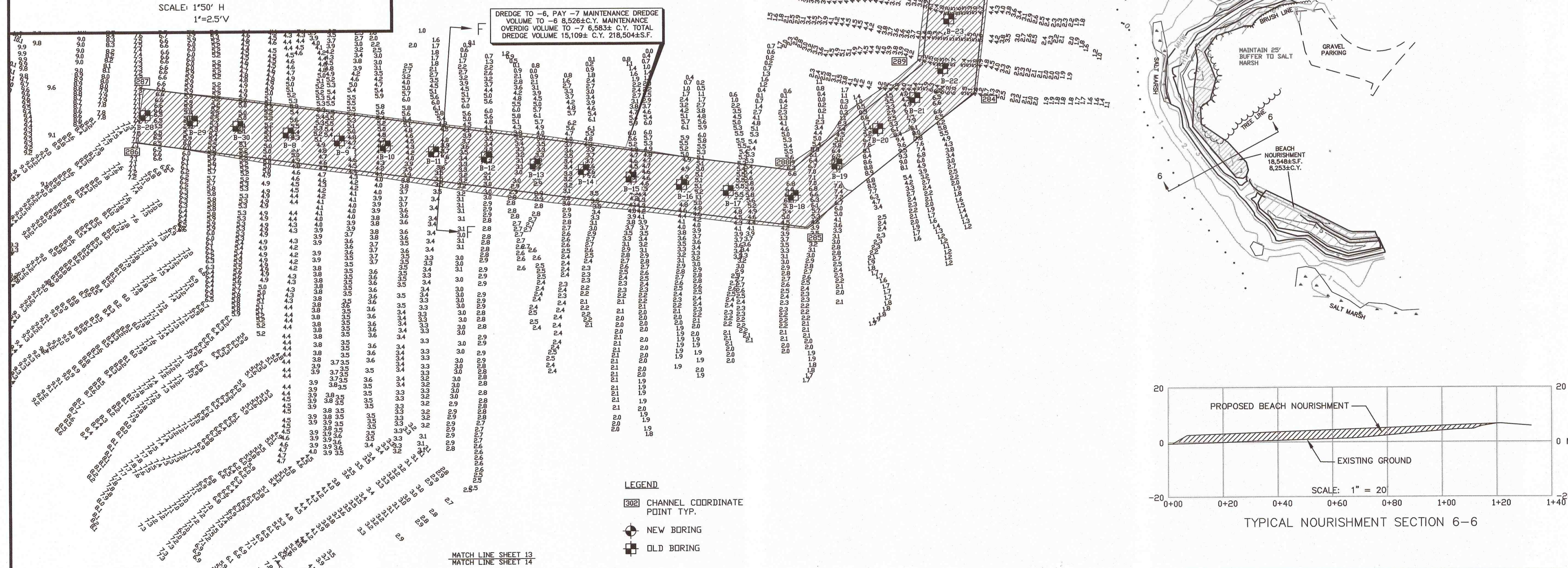
© 2019 The BSC Group, Inc.
SCALE: 1" = 100'
0 50 100 200 FEET



SECTION F-F
LITTLE BAY
MAINTENANCE DREDGE TYP.
SCALE: 1"=50' H
1"=2.5' V

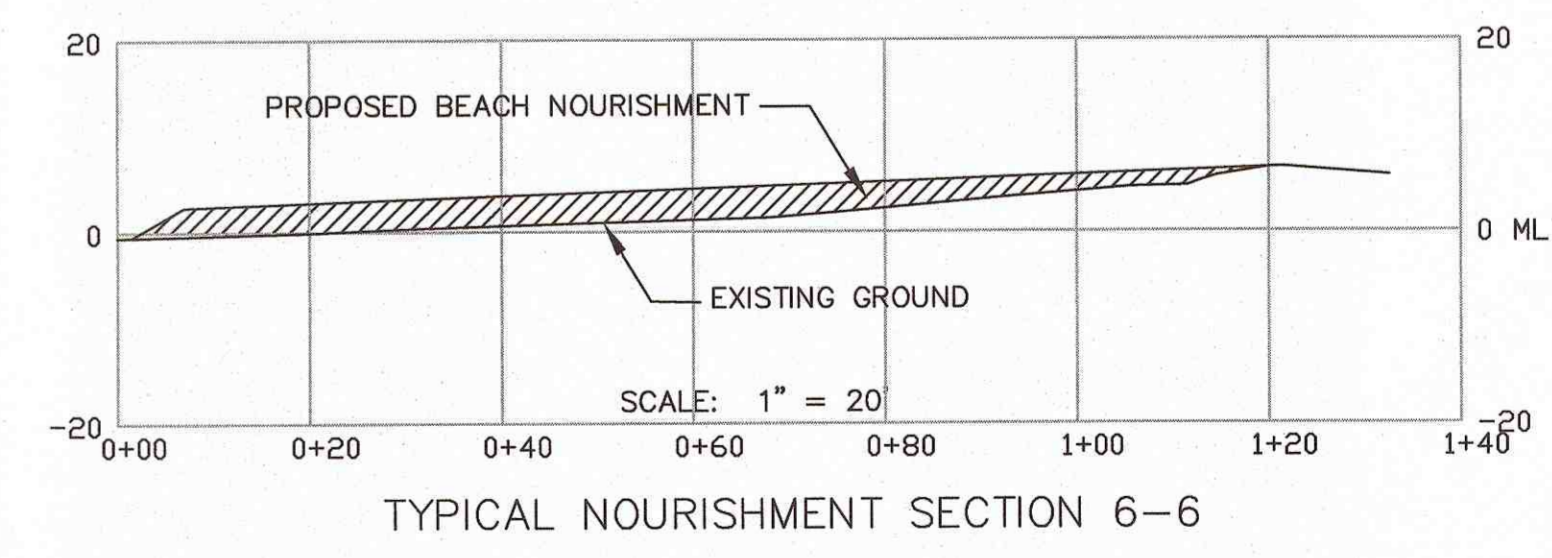


SECTION F1-F1
LITTLE BAY
IMPROVEMENT DREDGE TYP.
SCALE: 1"=50' H
1"=2.5' V



MATCH LINE SHEET 13
MATCH LINE SHEET 14

- LEGEND**
- 30 CHANNEL COORDINATE POINT TYP.
 - NEW BORING
 - OLD BORING



TYPICAL NOURISHMENT SECTION 6-6

MAD 69 MASS MAINLAND

MATCH LINE SHEET 12
MATCH LINE SHEET 13



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
TEN YEAR
COMPREHENSIVE
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BOURNE
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(BARNSTABLE COUNTY)

PHASE II
HYDROGRAPHIC
SURVEY PLAN
NOVEMBER 9, 2018

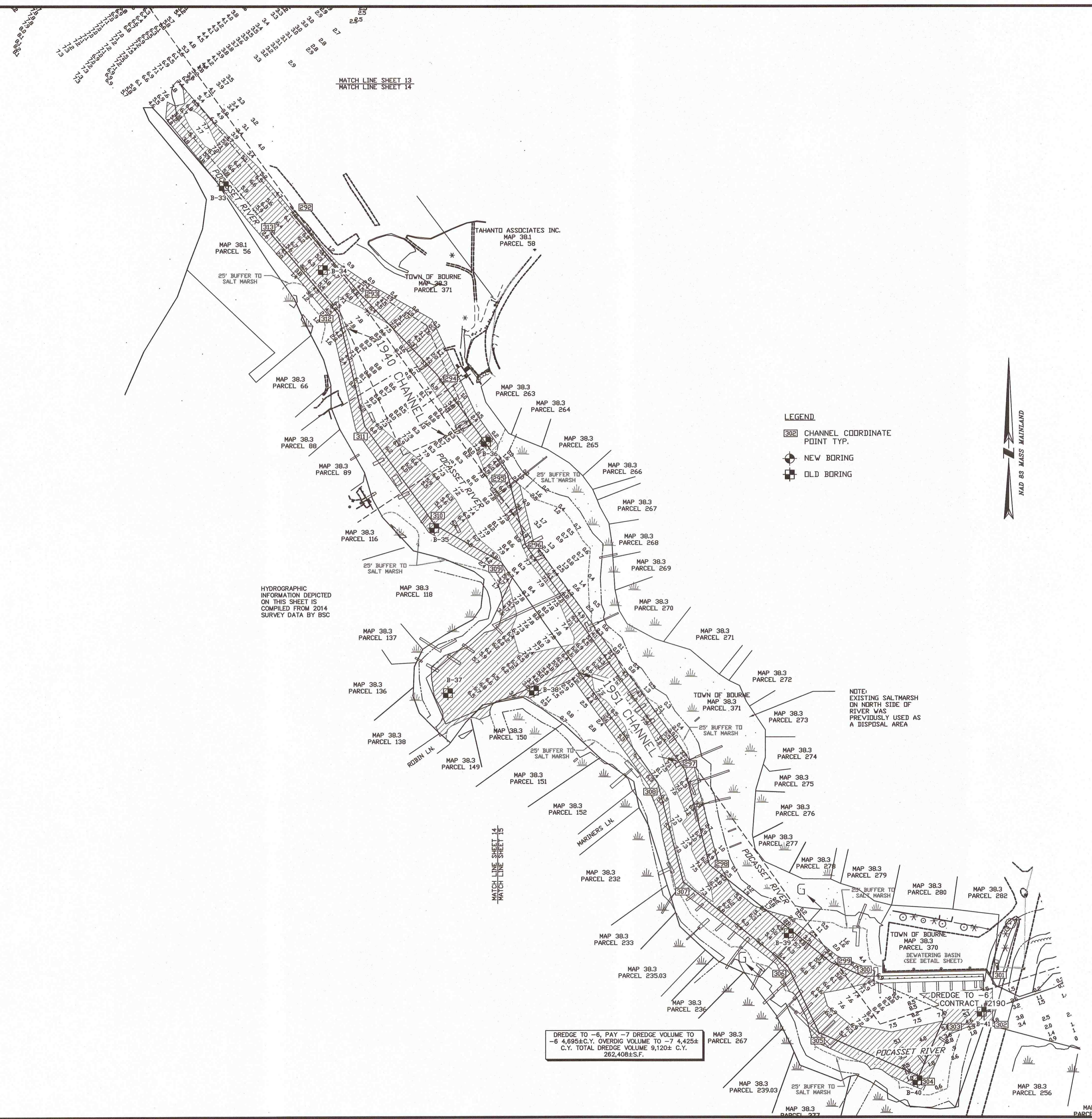
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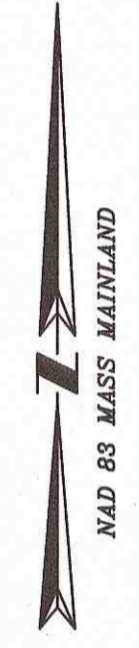
PREPARED FOR:
TOWN OF BOURNE
BOARD OF SELECTMEN
24 PERRY AVENUE
BOURNE, MA 02532

BSC GROUP
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West Yarmouth, Massachusetts
02673 508 778 8919

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SCALE: 1" = 100'
0 50 100 200 FEET
FILE: 48075-COMP.DWG
DWG: 6517-01 SHEET 13 OF 27
JOB. NO: 48075.08



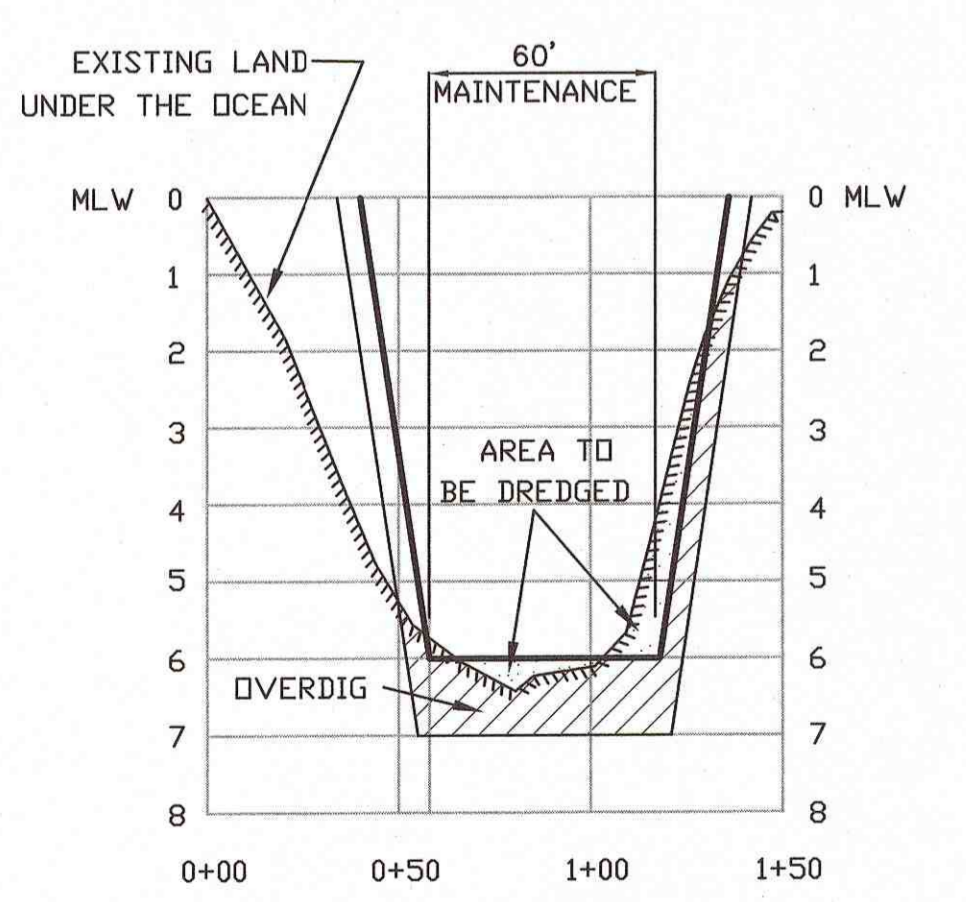
- LEGEND**
- 302 CHANNEL COORDINATE POINT TYP.
 - NEW BORING
 - OLD BORING



HYDROGRAPHIC INFORMATION DEPICTED ON THIS SHEET IS COMPILED FROM 2014 SURVEY DATA BY BSC

NOTE: EXISTING SALTMARSH ON NORTH SIDE OF RIVER WAS PREVIOUSLY USED AS A DISPOSAL AREA

DREDGE TO -6, PAY -7 DREDGE VOLUME TO -6 4,895±C.Y. OVERDIG VOLUME TO -7 4,425±C.Y. TOTAL DREDGE VOLUME 9,120±C.Y. 262,408±S.F.



SECTION GG
POCASSET RIVER
MAINTENANCE DREDGE TYP.
SCALE: 1"=50' H
1"=2.5' V



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
TEN YEAR
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IN
**BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)**

**PHASE II
HYDROGRAPHIC
SURVEY PLAN**
NOVEMBER 9, 2018

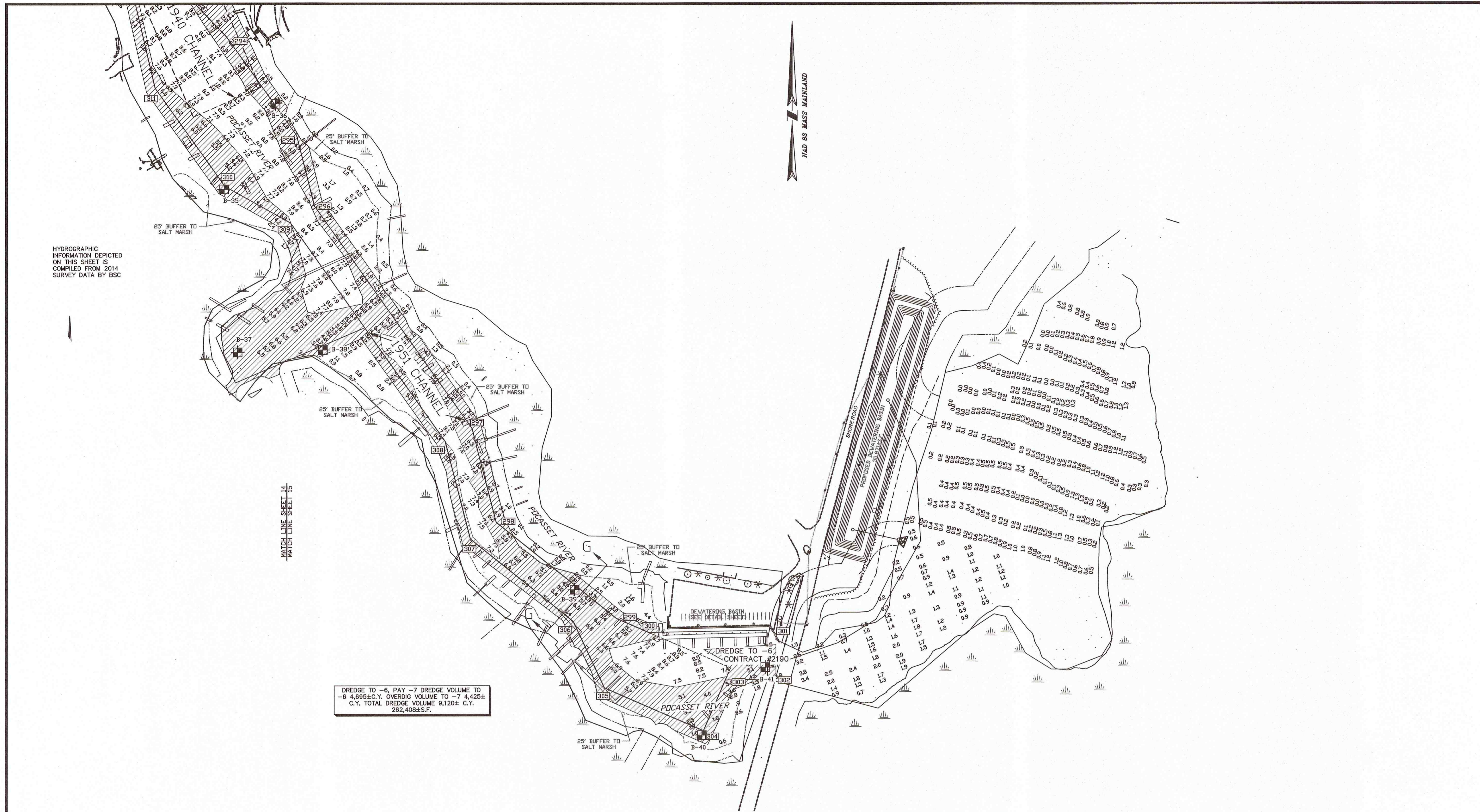
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BSC GROUP
349 Main Street - Route 28
West Yarmouth, Massachusetts
02673
508 778 8919

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SCALE: 1" = 100'
0 50 100 200 FEET
FILE: 48075-COMP.DWG
DWG.: 6517-01
JOB. NO: 48075.08 SHEET 14 OF 27



Craig A. Field 5-22-19
 CRAIG A. FIELD DATE
 PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
 TEN YEAR
 COMPREHENSIVE
 DREDGING &
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IN
 BOURNE
 MASSACHUSETTS
 (BARNSTABLE COUNTY)

PHASE II
 HYDROGRAPHIC
 SURVEY PLAN
 NOVEMBER 9, 2018

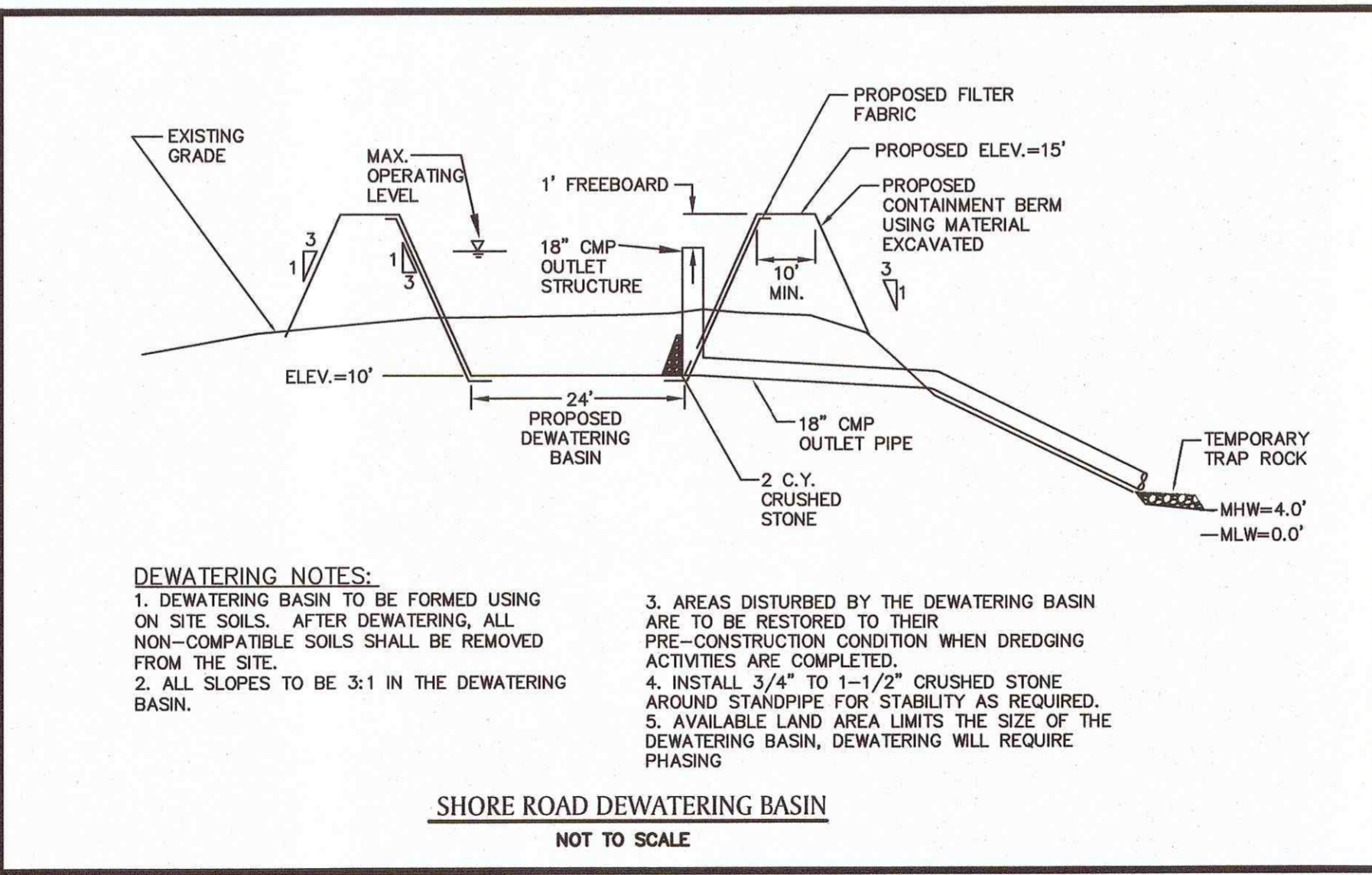
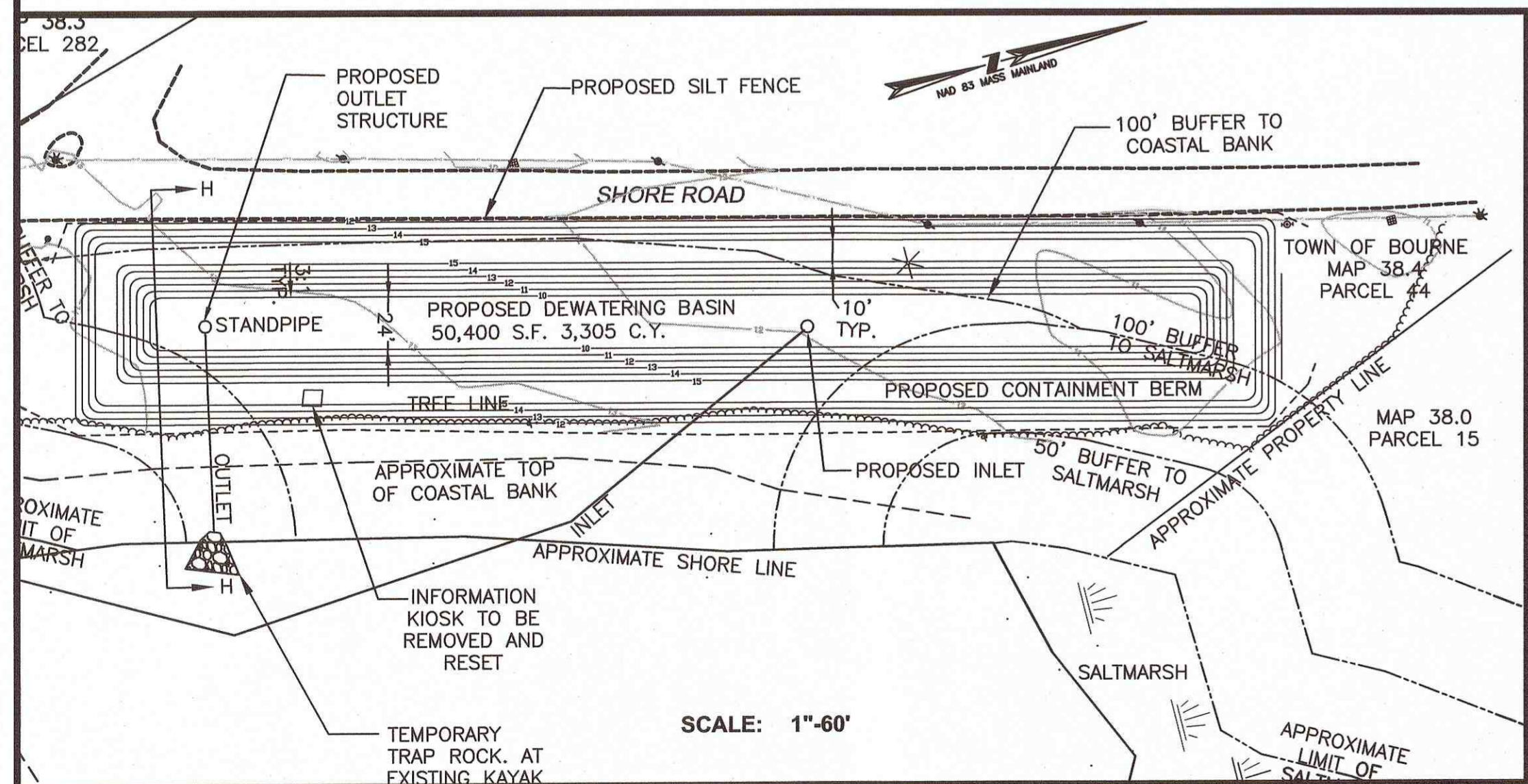
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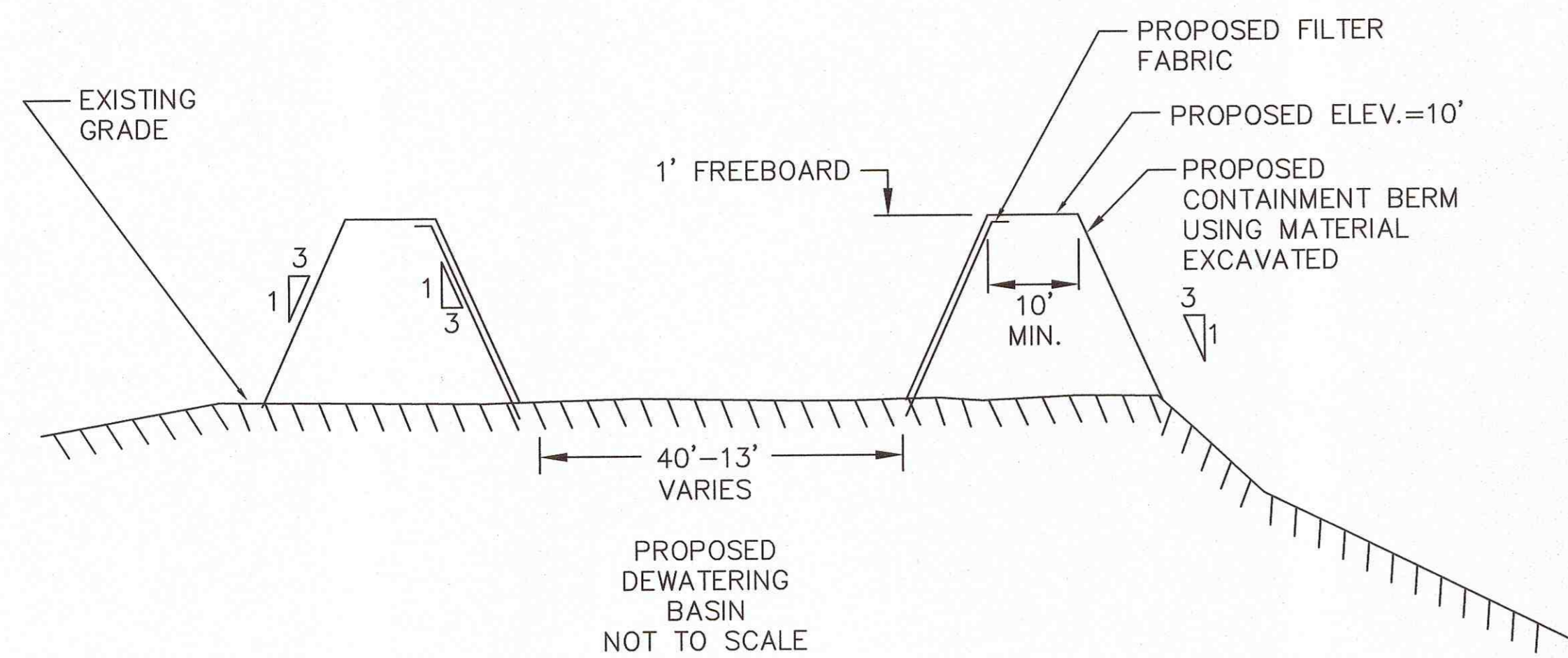
PREPARED FOR:
 TOWN OF BOURNE
 BOARD OF SELECTMEN
 24 PERRY AVENUE
 BOURNE, MA 02532

BSC GROUP
 349 Main Street - Route 28
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 02673
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 SCALE: 1" = 100'
 0 50 100 200 FEET
 FILE: 48075-COMP.DWG
 DWG.: 6517-01 SHEET 15 OF 27
 JOB. NO: 48075.08

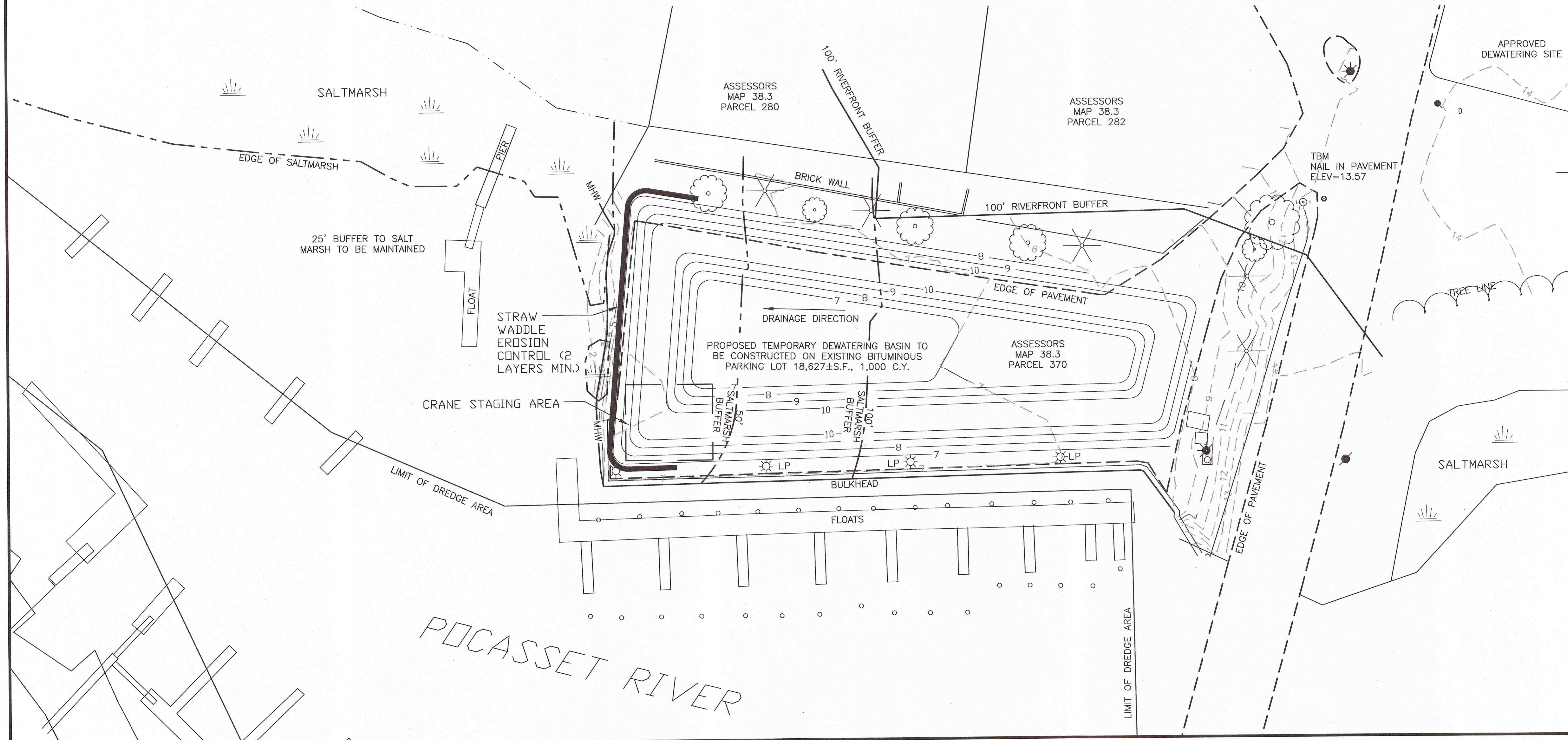



- DEWATERING NOTES:**
1. DEWATERING BASIN TO BE FORMED USING ON SITE SOILS. AFTER DEWATERING, ALL NON-COMPATIBLE SOILS SHALL BE REMOVED FROM THE SITE.
 2. ALL SLOPES TO BE 3:1 IN THE DEWATERING BASIN.
 3. AREAS DISTURBED BY THE DEWATERING BASIN ARE TO BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION WHEN DREDGING ACTIVITIES ARE COMPLETED.
 4. INSTALL 3/4" TO 1-1/2" CRUSHED STONE AROUND STANDPIPE FOR STABILITY AS REQUIRED.
 5. AVAILABLE LAND AREA LIMITS THE SIZE OF THE DEWATERING BASIN, DEWATERING WILL REQUIRE PHASING



DEWATERING NOTES:

1. ALL SLOPES TO BE 3:1 IN THE DEWATERING BASIN.
2. AREAS DISTURBED BY THE DEWATERING BASIN ARE TO BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION WHEN DREDGING ACTIVITIES ARE COMPLETED.




 CRAIG A. FIELD 5-22-19 DATE
 PROFESSIONAL LAND SURVEYOR


TOWN OF BOURNE
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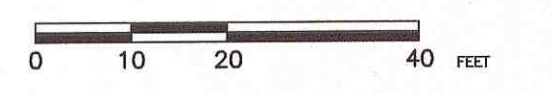
IN
BOURNE
MASSACHUSETTS
 (BARNSTABLE COUNTY)
PHASE II
POCASSET RIVER
DEWATERING BASIN
 NOVEMBER 9, 2018

REVISIONS:

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PREPARED FOR:
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 BOURNE, MA 02532





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 02673
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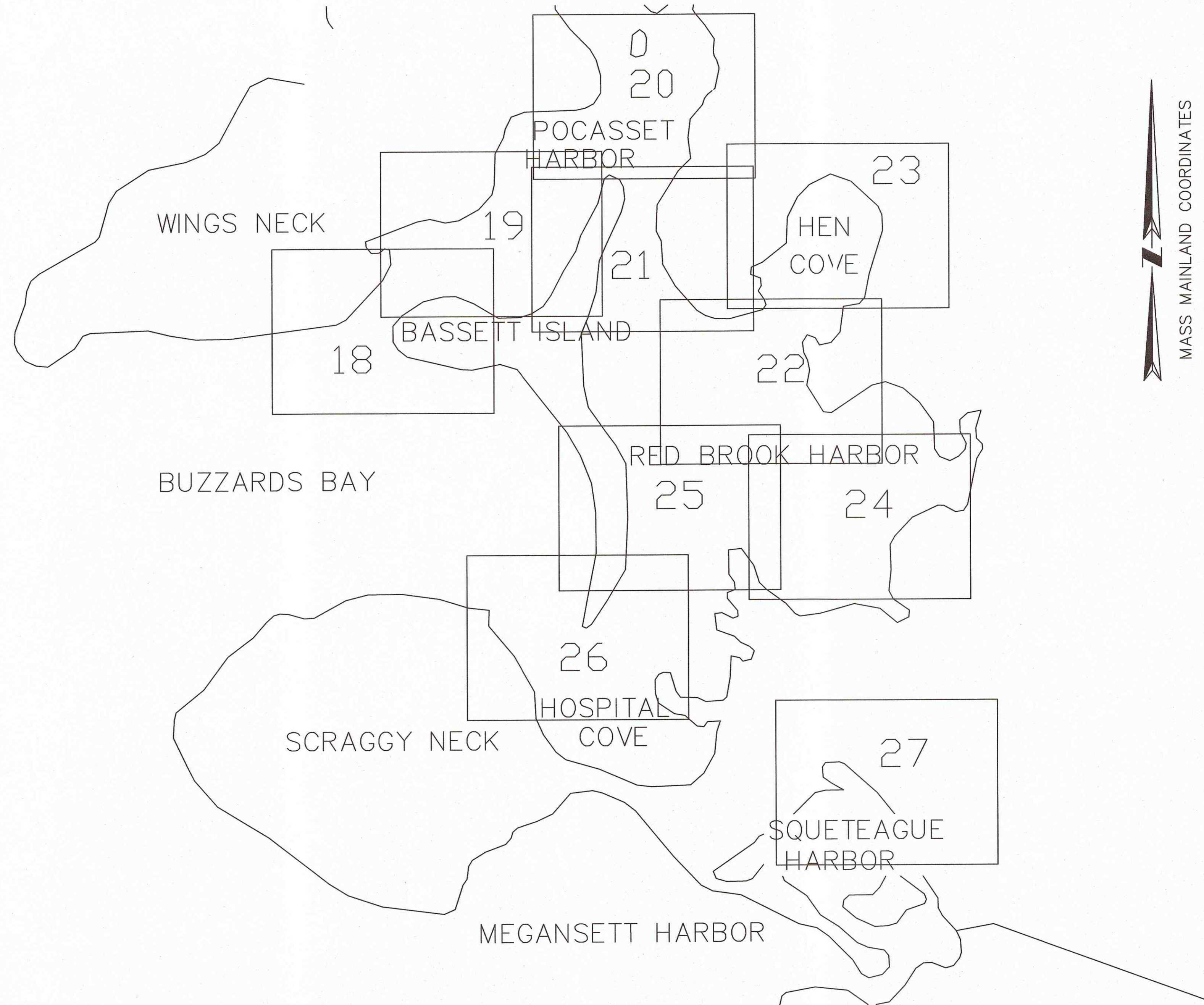
© 2019 The BSC Group, Inc.
 SCALE: 1" = 20'



PHASE III (SOUTHERLY AREA)

POCASSET HARBOR
 BARLOWS LANDING
 RED BROOK HARBOR
 HEN COVE
 HOSPITAL COVE
 SQUETEAGUE HARBOR

PT	NORTHING	EASTING	PT	NORTHING	EASTING	PT	NORTHING	EASTING
381	2711604.407	896589.1718	314	2711959.522	892509.4734	348	2705131.067	892818.3310
382	2711816.273	896770.7767	315	2712997.859	893371.6579	349	2705201.085	892646.9348
383	2711862.422	896716.9381	316	2713352.347	893903.8833	350	2705432.342	892411.1274
384	2711862.422	896678.6246	317	2713938.556	893925.9353	351	2706819.060	891692.1664
385	2711655.906	896501.6050	318	2713920.126	894415.8400	352	2706061.131	892085.1240
386	2711816.169	896229.0953	319	2713780.054	894520.3971	353	2706062.969	892174.2840
387	2711772.969	896102.0470	320	2713495.494	894684.7279	354	2705480.510	892476.2669
388	2711258.370	895788.2374	321	2713430.210	894507.2367	355	2705269.202	892691.7328
389	2710828.304	895899.6319	322	2713552.217	894450.1532	356	2705211.067	892834.0415
390	2710636.345	895785.3296	323	2713377.144	894184.7527	357	2706773.032	891603.3890
391	2709678.982	895450.5810	324	2712594.976	893426.4946	358	2705372.131	892329.7031
392	2709132.803	895071.0579	325	2712612.012	893359.4439	359	2705031.067	892677.4792
393	2709151.067	894942.2250	326	2712649.400	893212.2943	360	2705031.067	893226.0868
394	2709828.048	894170.7245	327	2712922.732	893439.2562	361	2705566.313	893718.4979
395	2710770.01	893674.49570	328	2713229.108	893899.2473	362	2706892.490	894115.2496
396	2711042.572	893603.6171	329	2712873.671	893885.8765	363	2708574.191	894360.1589
397	2711233.455	893614.4063	330	2712550.340	893602.1761	364	2708752.246	894543.2084
398	2711984.202	893794.1692	331	2712529.990	893717.3579	365	2708662.511	895032.9124
399	2712290.111	893781.9998	332	2712564.198	893141.5467	366	2708551.001	895166.7764
400	2712730.825	892985.5820	333	2712437.907	893638.6051	367	2707866.156	895426.8494
401	2712555.420	893745.3440	334	2712274.925	893682.5248	368	2707792.432	897325.4185
402	2712219.145	893838.6011	335	2711994.043	893693.6987	369	2707892.356	897329.2966
403	2711562.261	893647.1367	336	2711248.036	893515.0709	370	2707959.633	895596.7701
404	2711590.244	893551.1317	337	2711032.570	893502.8922	371	2708057.000	895461.3437
405	2712219.826	893734.6382	338	2710733.641	893580.6274	372	2708610.560	895251.1265
406	2712471.366	893664.8799	339	2709765.080	894090.8691	373	2708798.442	895248.6309
407	2712633.388	892963.0869	340	2709104.725	894843.4224	374	2709039.859	895333.0443
408	2711895.639	892586.4063	341	2708996.303	894828.0517	375	2709326.237	895327.2413
			342	2708740.824	894283.3712	376	2709633.111	895540.4786
			343	2706914.164	894017.2500	377	2710595.261	895876.9013
			344	2705617.106	893629.2101	378	2710780.373	895987.4770
			345	2705211.067	893255.8012	379	2710873.182	896387.9523
			346	2705204.744	893249.8486	380	2711506.832	896755.0864
			347	2705131.167	893082.1826			

LEGEND
 CHANNEL COORDINATE POINT TYP.
 NEW BORING
 OLD BORING




 CRAIG A. FIELD 5-22-19 DATE
 PROFESSIONAL LAND SURVEYOR

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PHASE III KEY SHEET

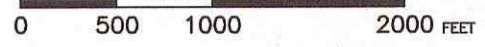
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 BOURNE, MA 02532

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MAD 88 MASS MAINLAND

MATCH LINE SHEET 19
MATCH LINE SHEET 18

HYDROGRAPHIC
INFORMATION DEPICTED
ON THIS SHEET IS
COMPILED FROM 2014
SURVEY DATA BY BSC



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

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PHASE III
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NOVEMBER 9, 2018

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SCALE: 1" = 100'
0 50 100 200 FEET



Craig A. Field 5-22-19 DATE
CRAIG A. FIELD PROFESSIONAL LAND SURVEYOR

TOWN OF BOURNE TEN YEAR COMPREHENSIVE DREDGING & DISPOSAL PERMIT TO ACCOMPANY A NOTICE OF INTENT

IN
BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)

PHASE III
HYDROGRAPHIC
SURVEY PLAN
NOVEMBER 9, 2018

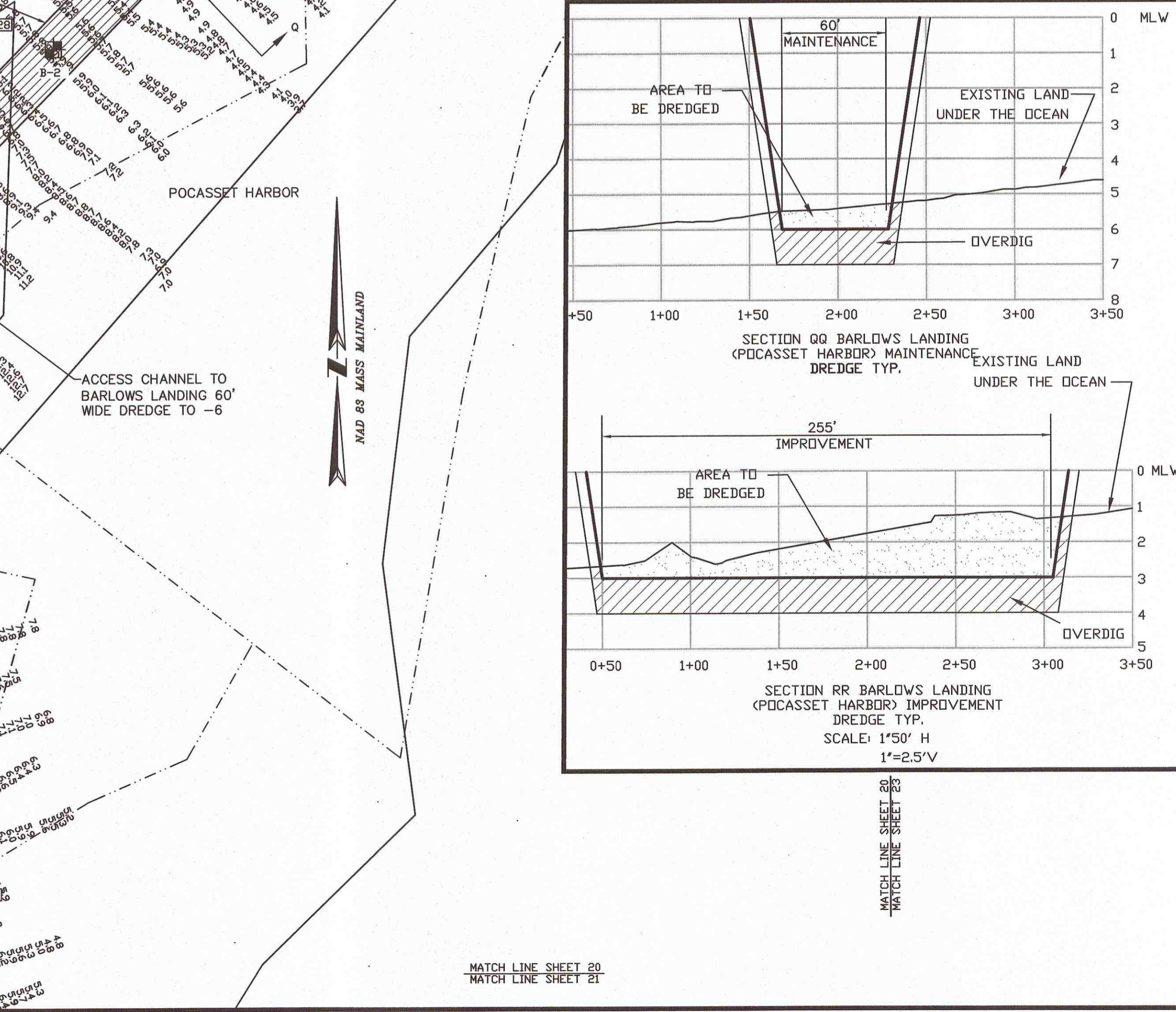
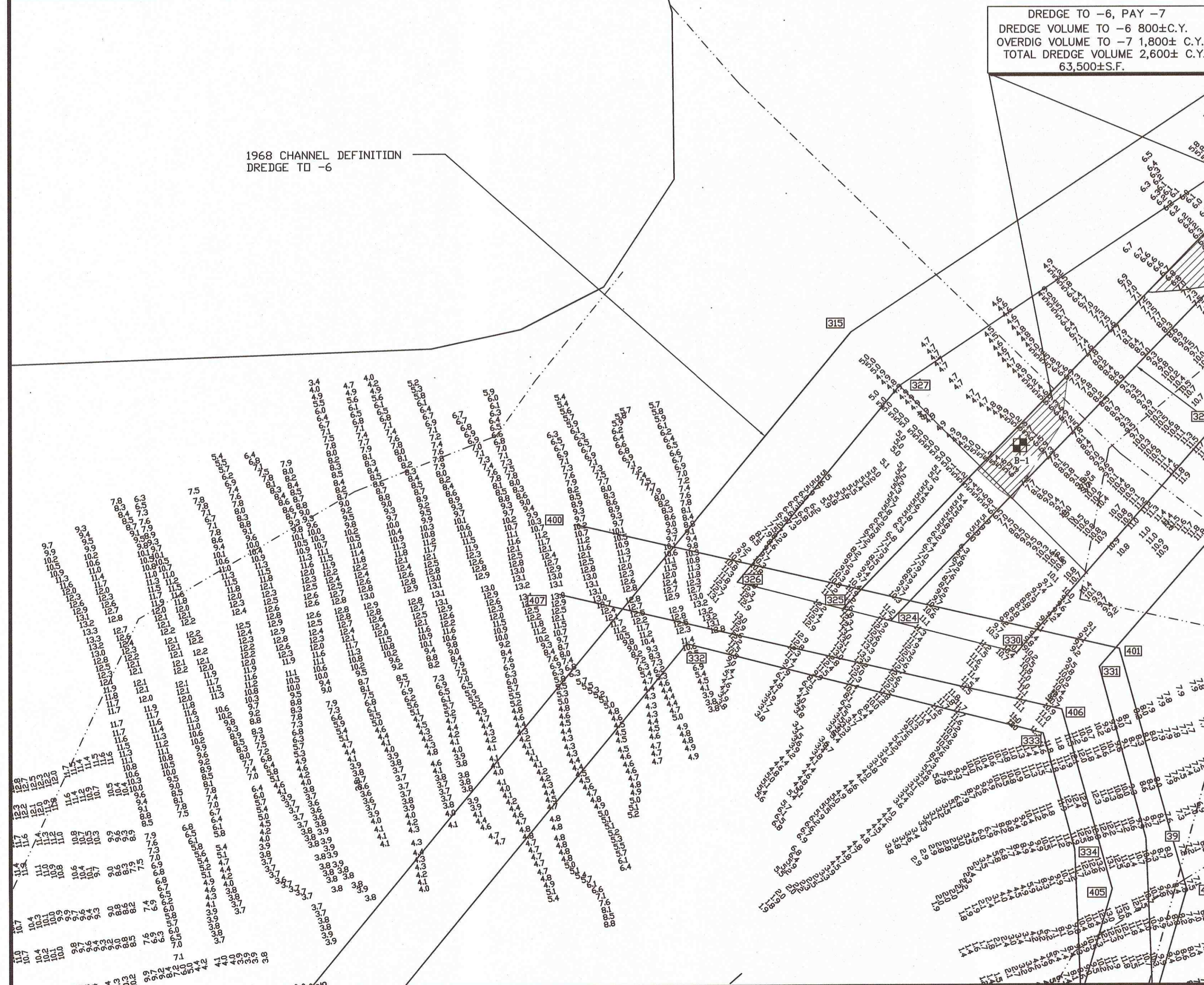
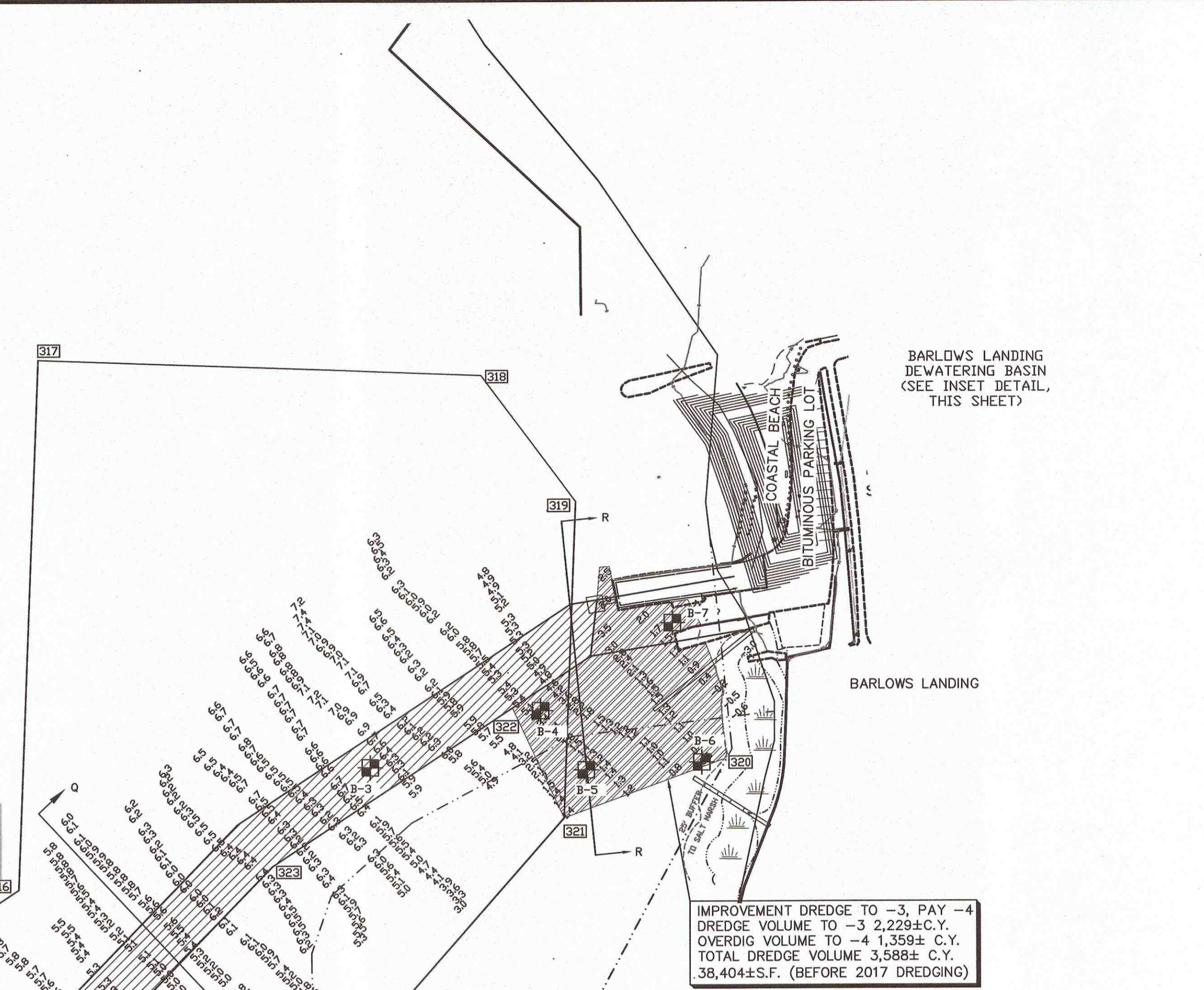
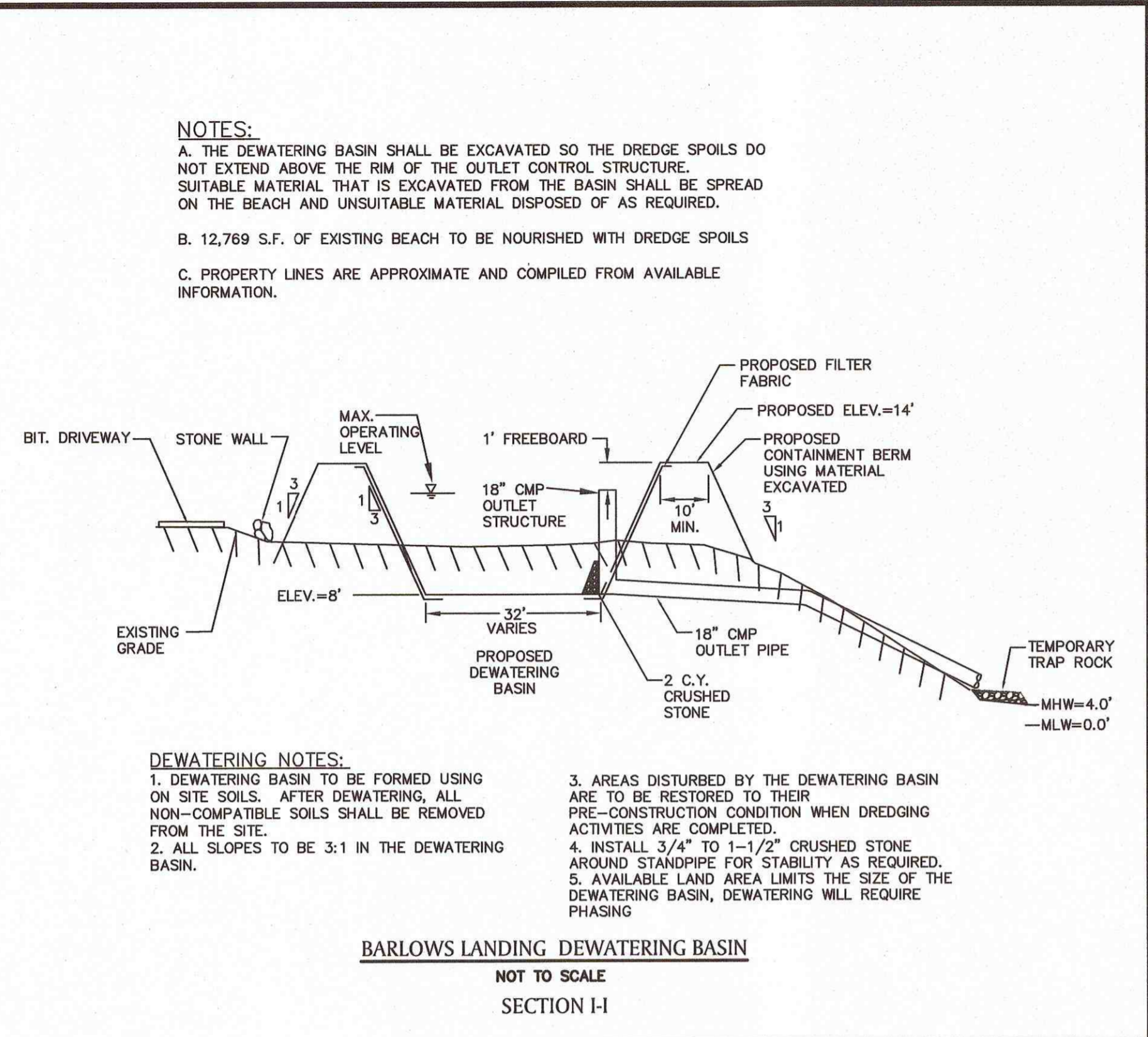
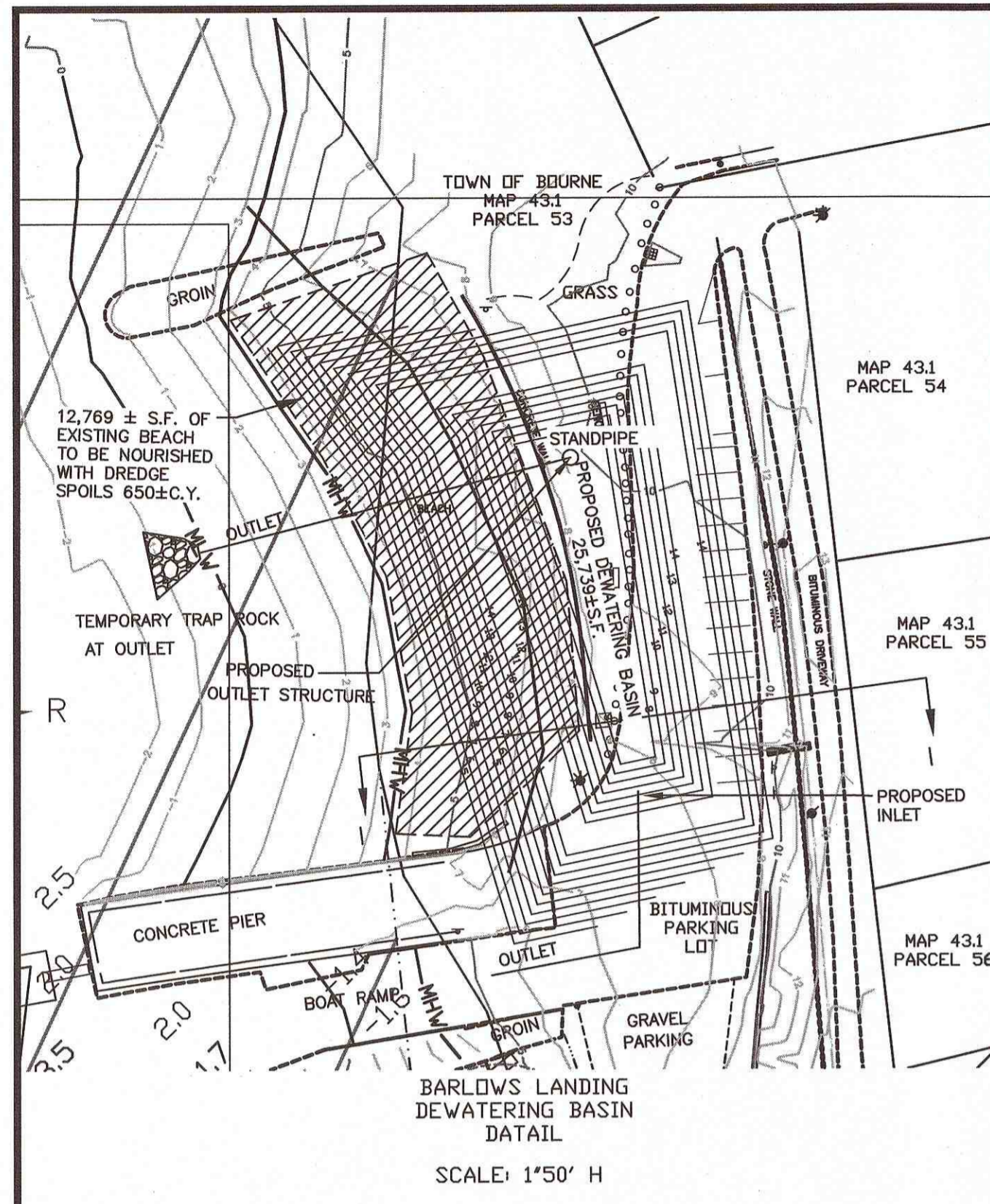
REVISIONS:

NO.	DATE	DESC.
1.	2/6/19	NATURAL HERITAGE EDITS
2.	3/29/19	NATURAL HERITAGE EDITS
3.	5/22/19	MARINE FISHERIES EDITS

PREPARED FOR:
TOWN OF BOURNE
BOARD OF SELECTMEN
24 PERRY AVENUE
BOURNE, MA 02532

349 Main Street - Route 28
West Yarmouth, Massachusetts
02673
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Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

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TEN YEAR
COMPREHENSIVE
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IN
**BOURNE
MASSACHUSETTS
(BARNSTABLE COUNTY)**
**PHASE III
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NOVEMBER 9, 2018

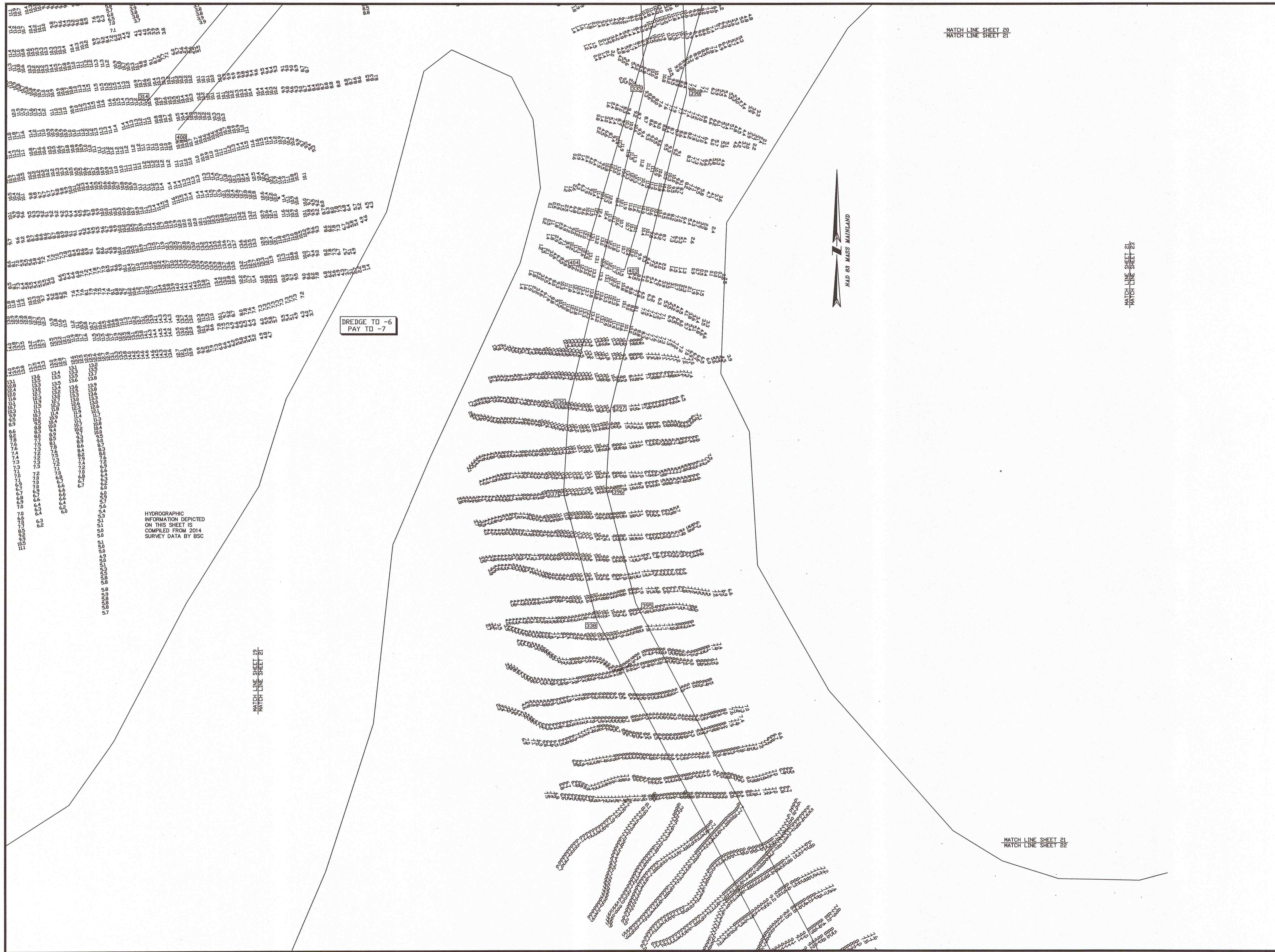
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0 50 100 200 FEET
FILE: 48075-COMP.DWG
DWG.: 6517-01 SHEET 20 OF 27
JOB. NO: 48075.08



HYDROGRAPHIC
INFORMATION DEPICTED
ON THIS SHEET IS
COMPILED FROM 2014
SURVEY DATA BY BSC



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
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PHASE III
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NOVEMBER 9, 2018

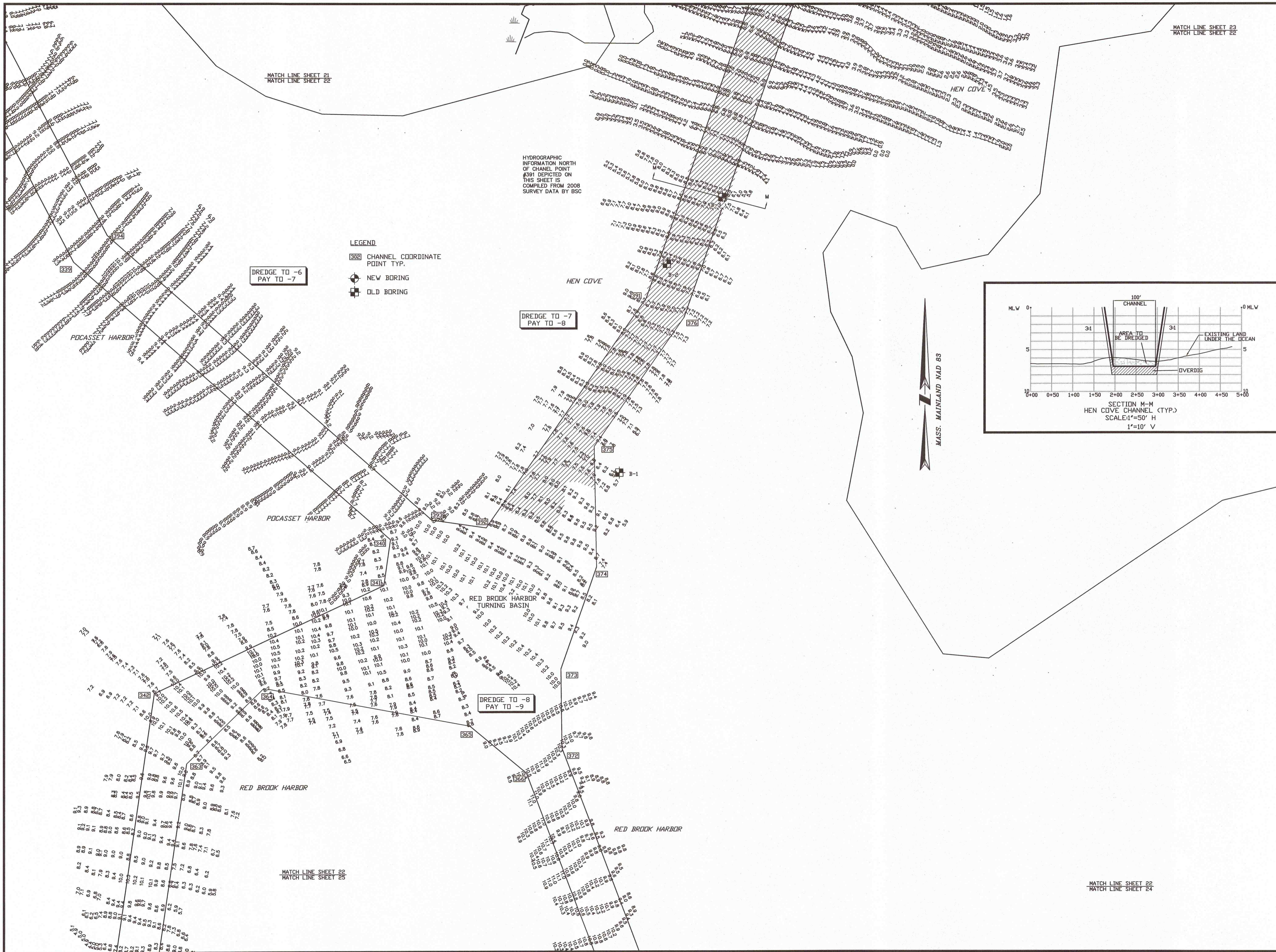
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BOURNE, MA 02532

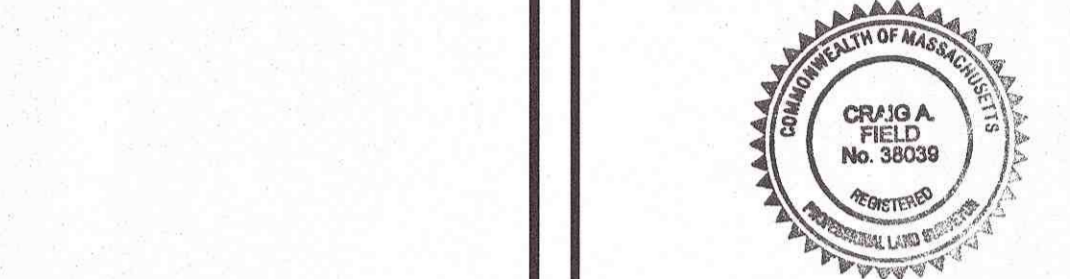
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0 50 100 200 FEET



MATCH LINE SHEET 23
MATCH LINE SHEET 22

MATCH LINE SHEET 21
MATCH LINE SHEET 22



Craig A. Field 5-22-19
CRAIG A. FIELD DATE
PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
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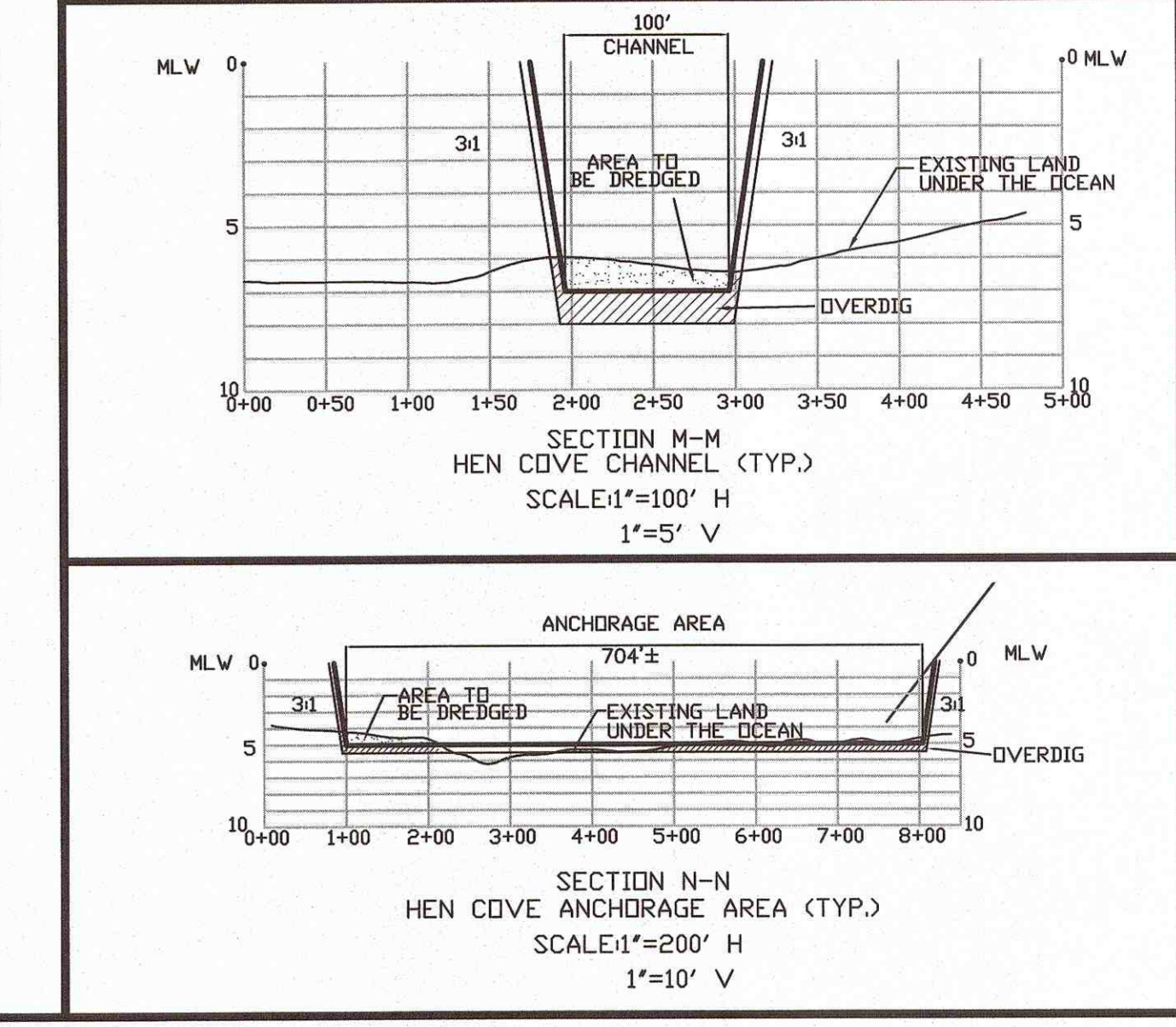
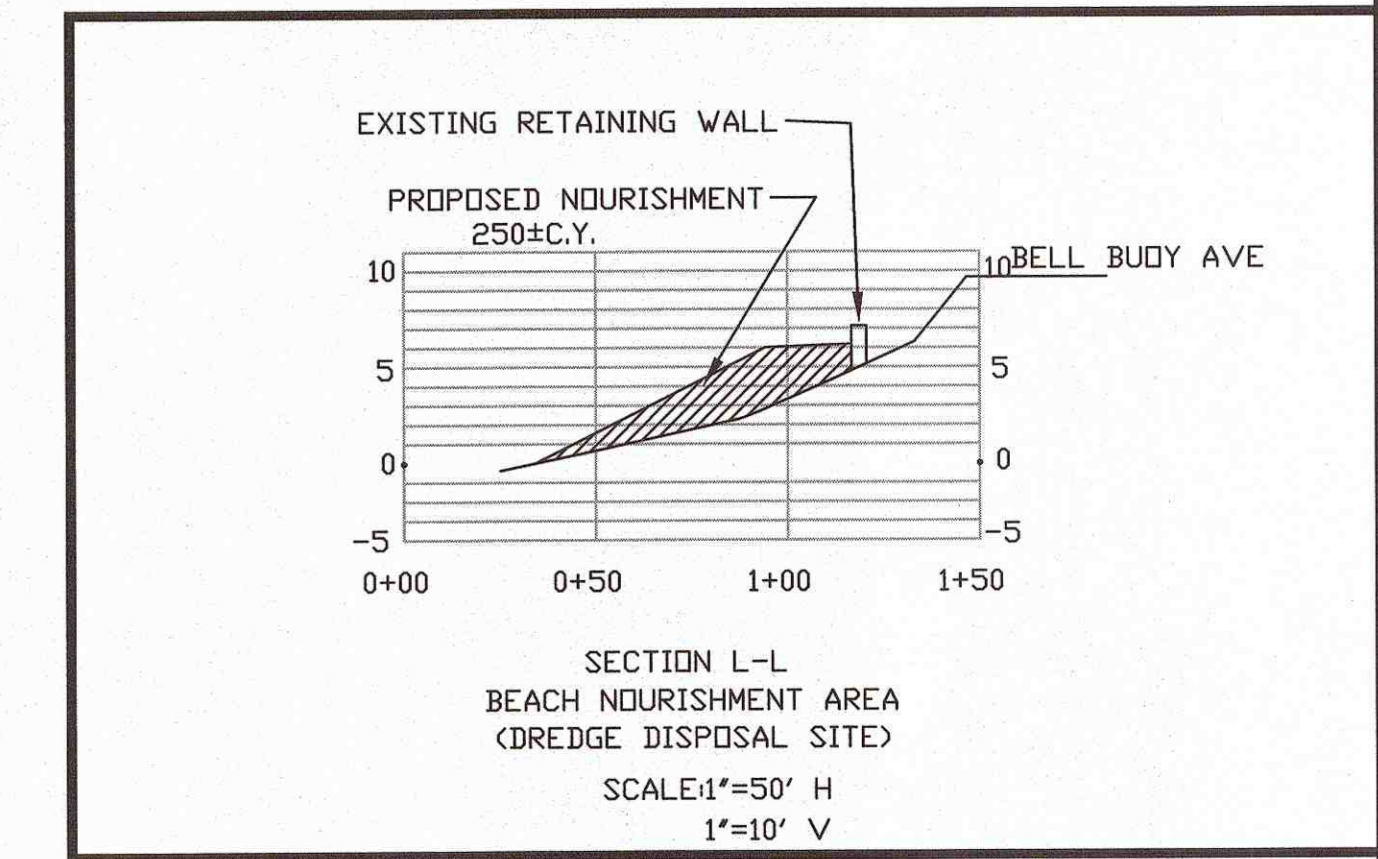
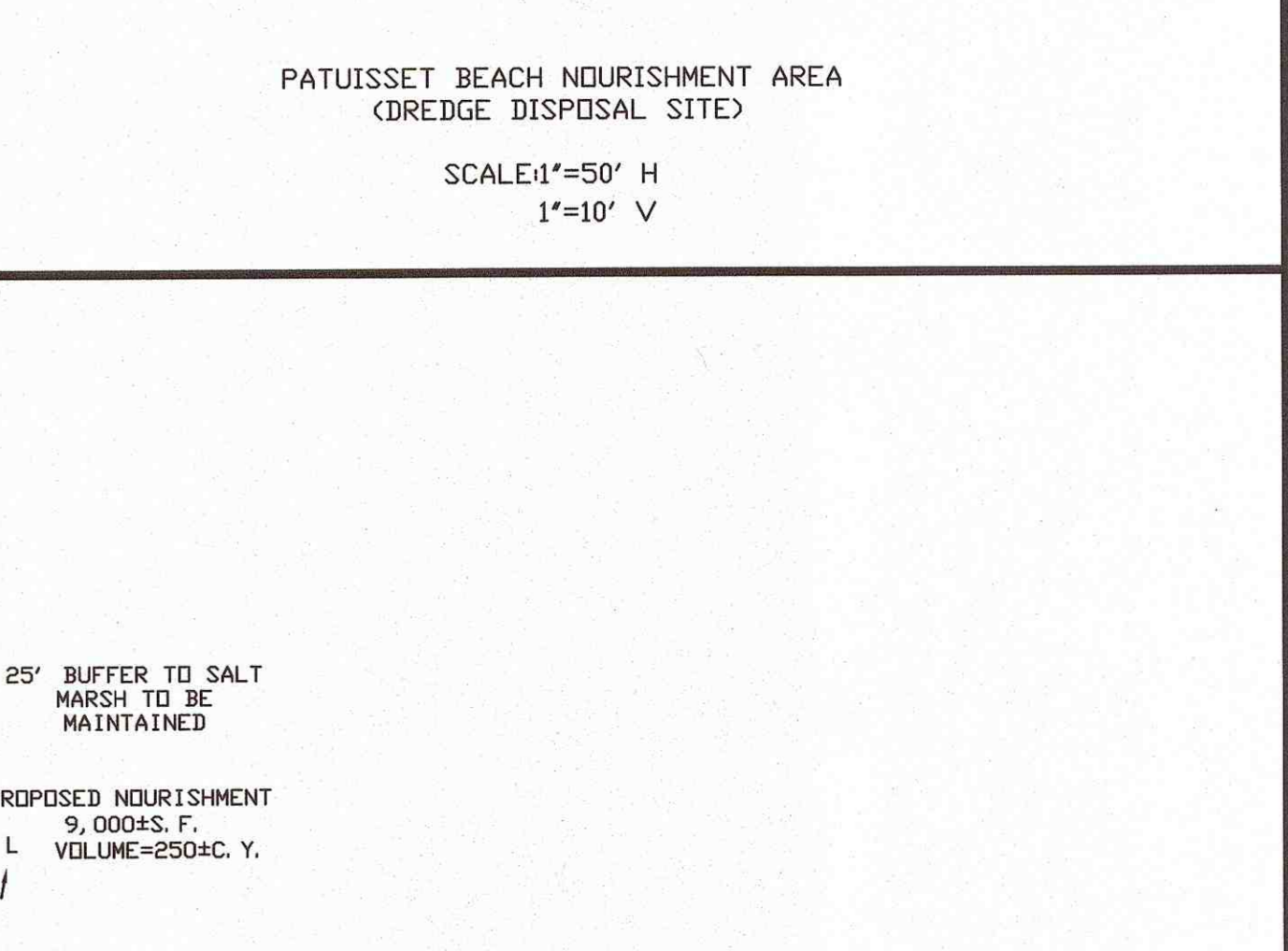
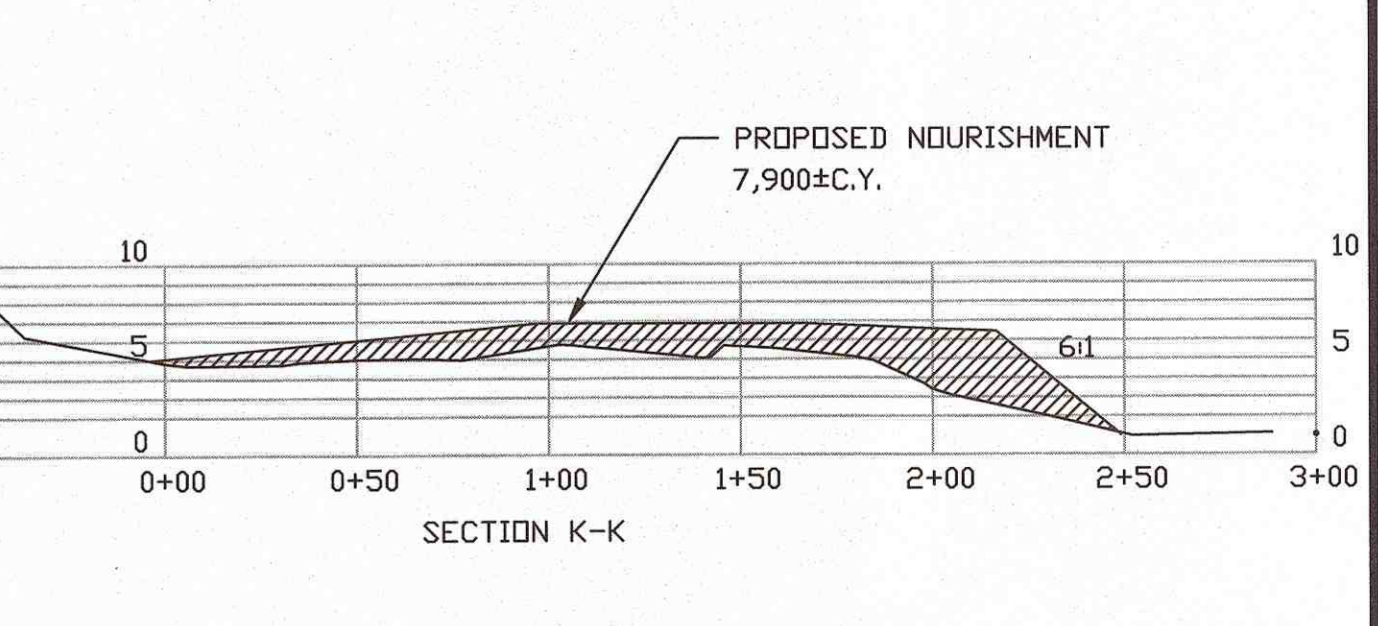
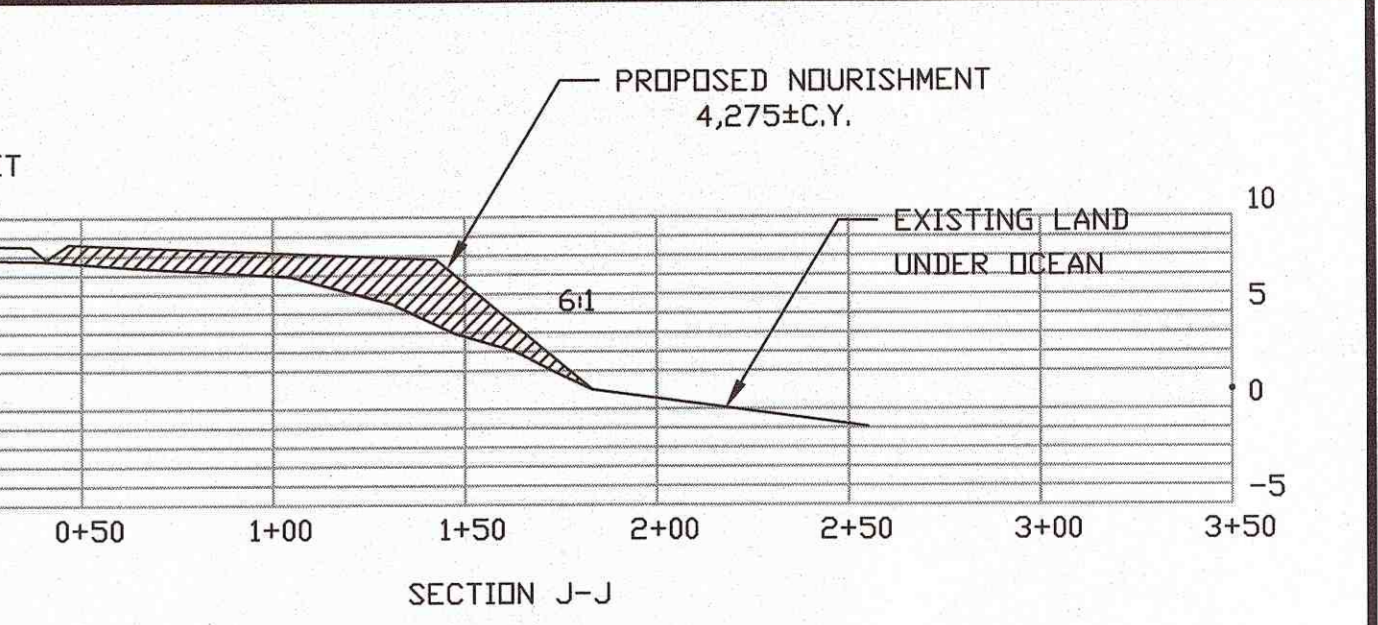
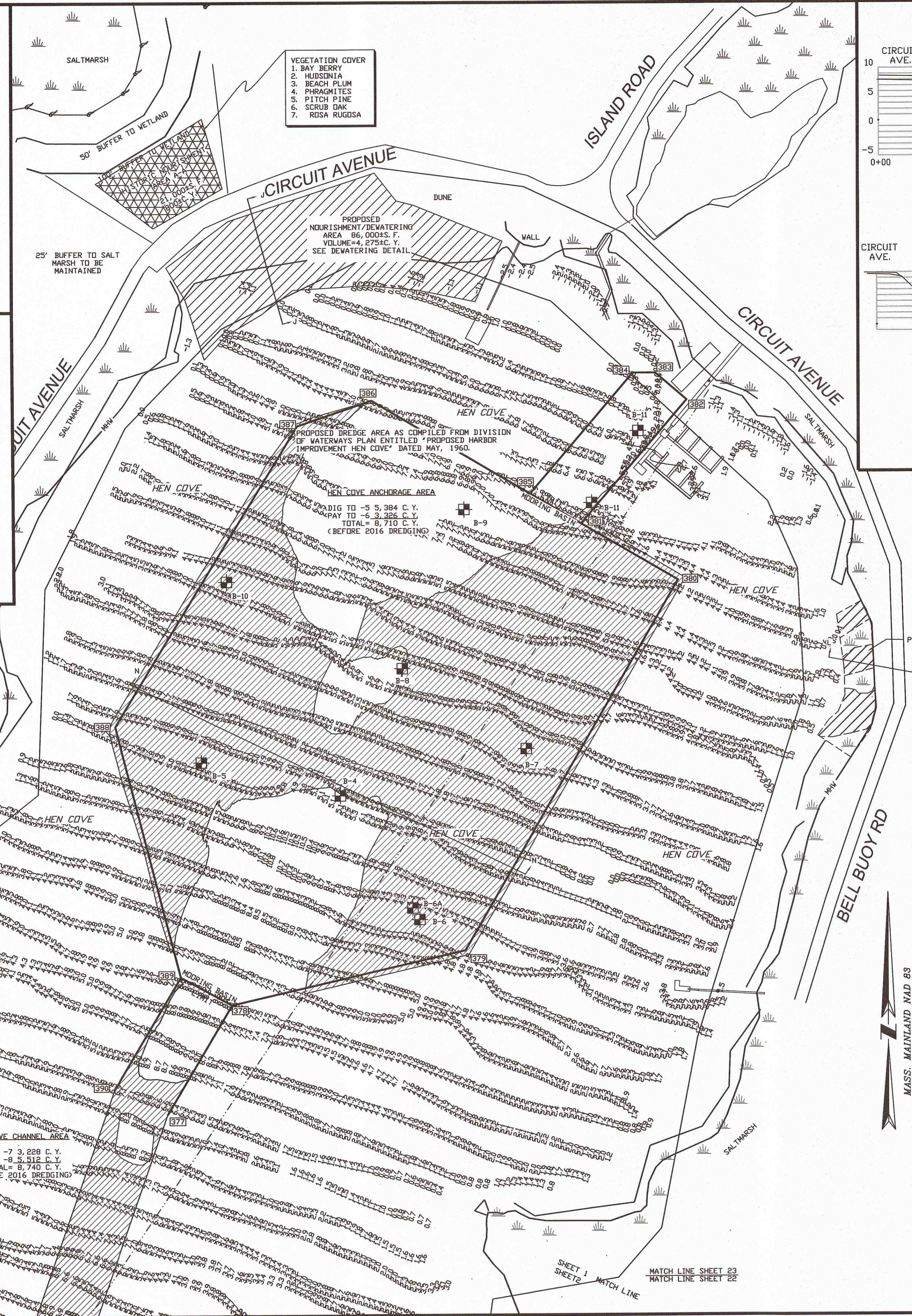
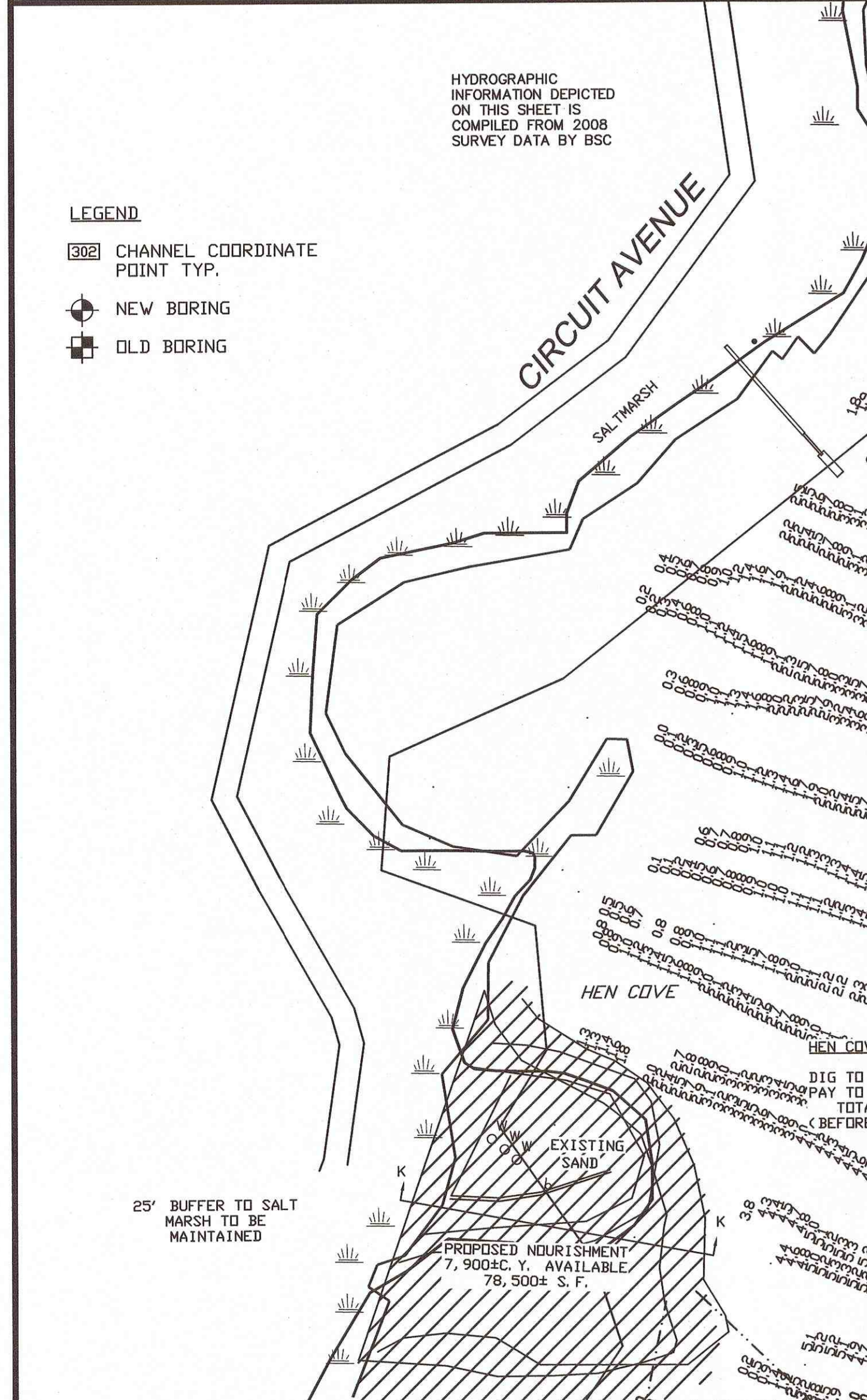
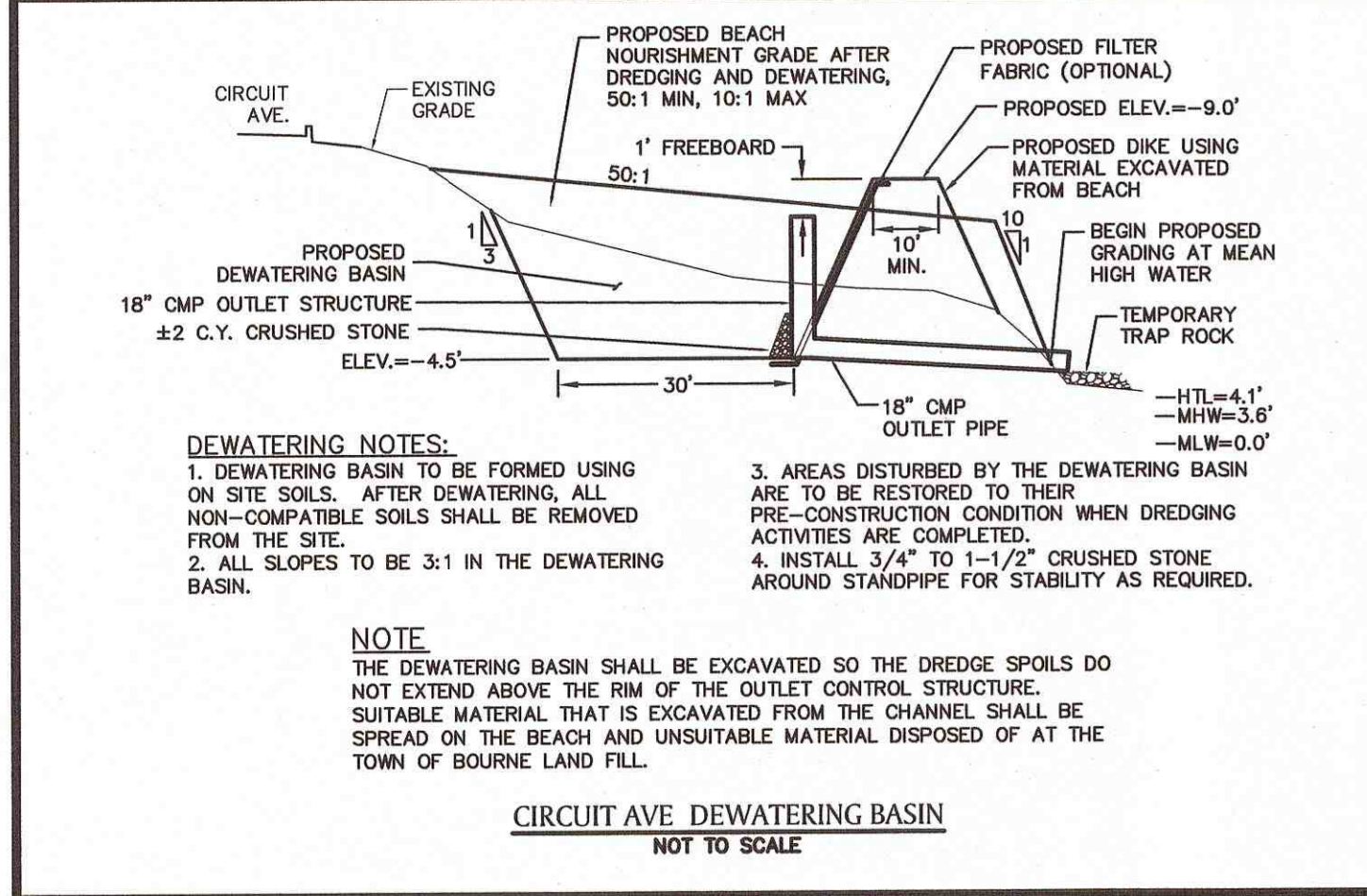
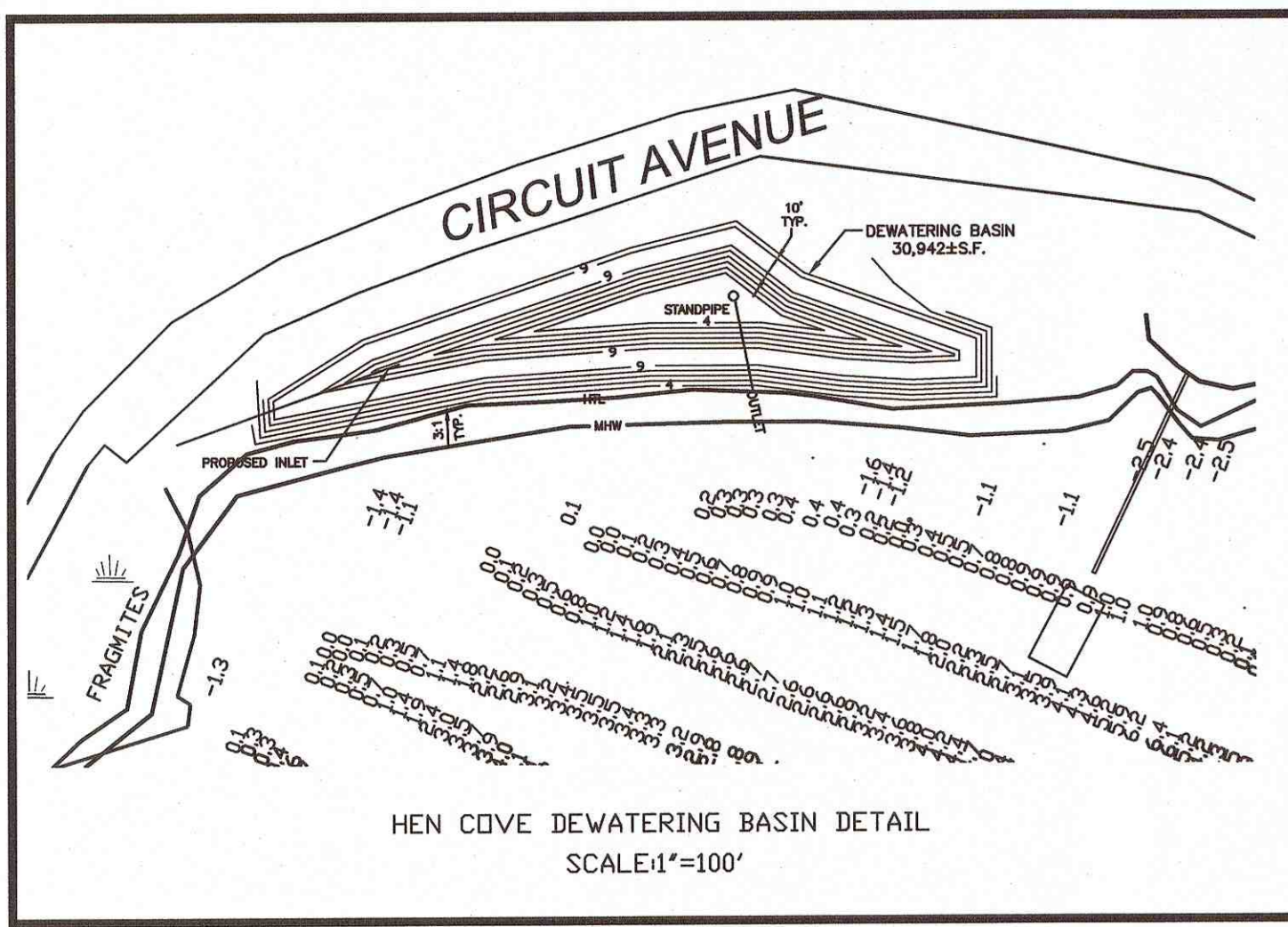
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24 PERRY AVENUE
BOURNE, MA 02532

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02673
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SCALE: 1" = 100'
0 50 100 200 FEET
FILE: 48075-COMP.DWG
DWG.: 6517-01 SHEET 22 OF 27
JOB. NO: 48075.08

MATCH LINE SHEET 22
MATCH LINE SHEET 24



Craig A. Field 5-22-19
 CRAIG A. FIELD DATE
 PROFESSIONAL LAND SURVEYOR

**TOWN OF BOURNE
 TEN YEAR
 COMPREHENSIVE
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IN
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 (BARNSTABLE COUNTY)
 PHASE III
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 NOVEMBER 9, 2018

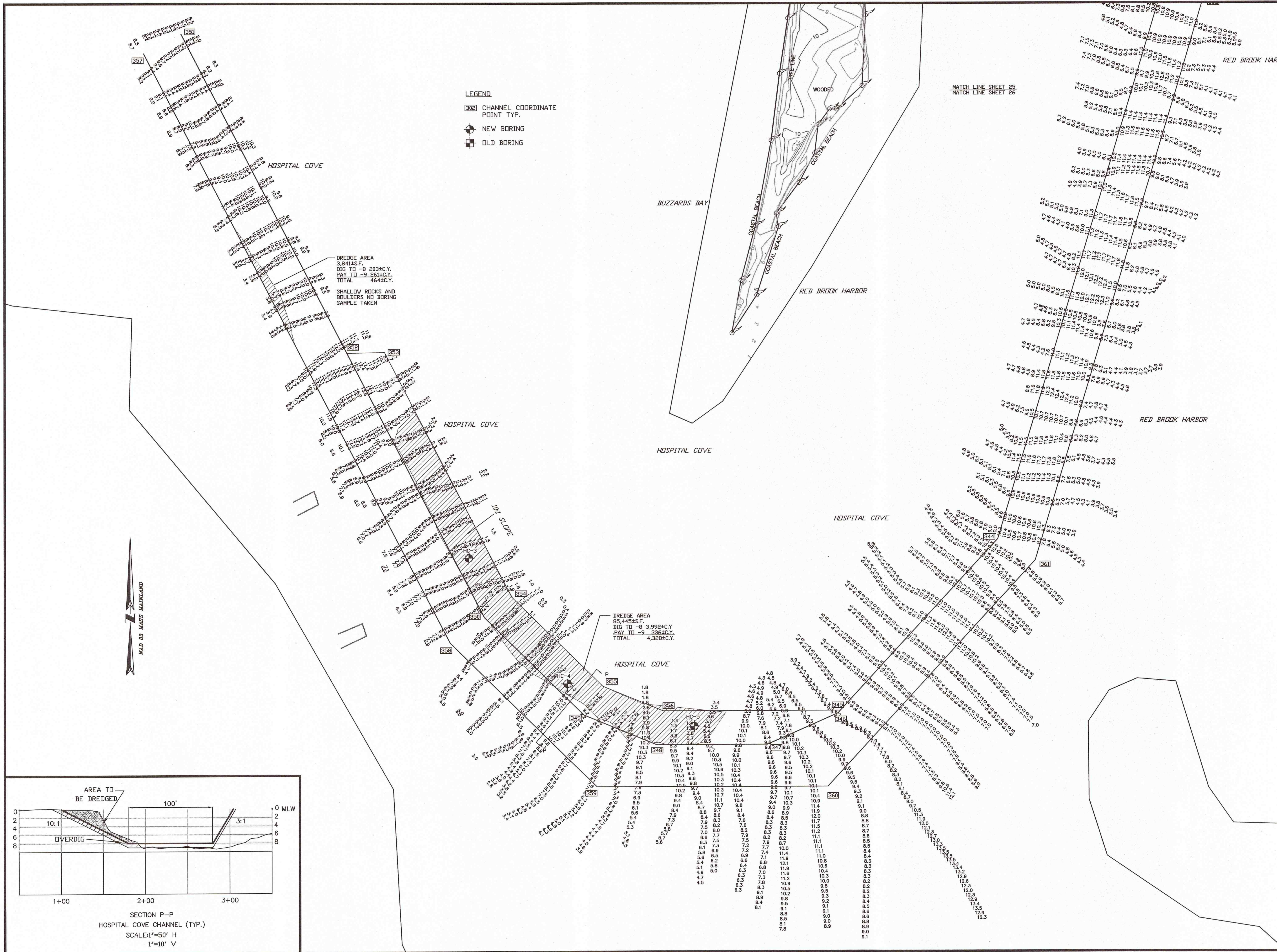
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PREPARED FOR:
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 24 PERRY AVENUE
 BOURNE, MA 02532

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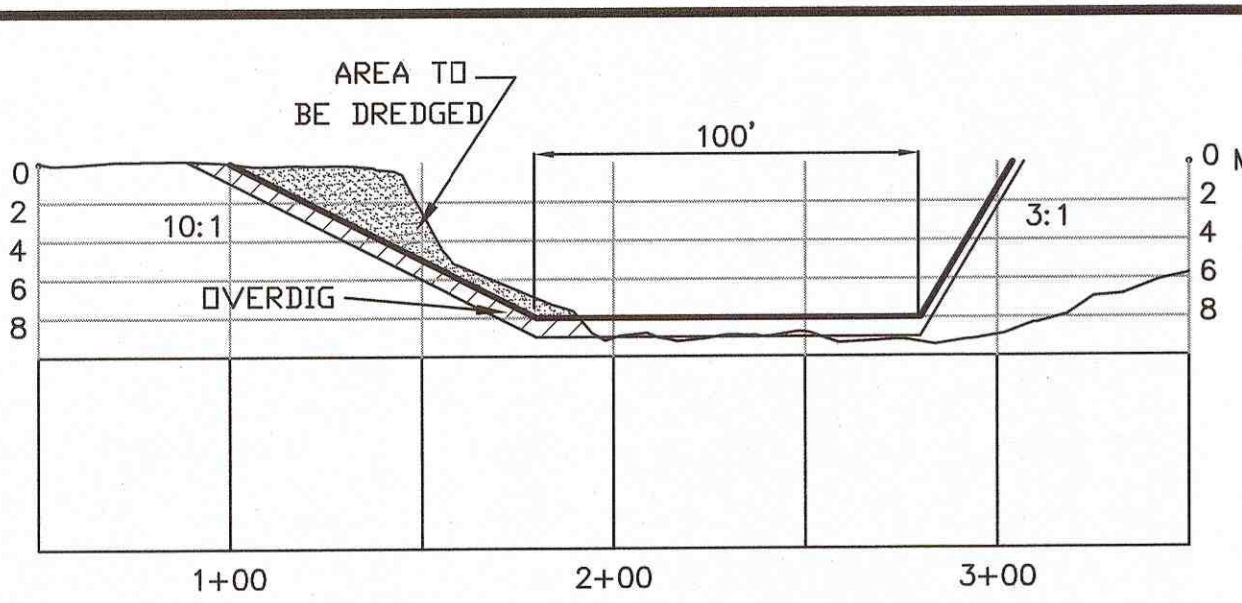
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 FILE: 48075-COMP.DWG
 DWG: 6517-01
 JOB. NO: 48075.08 SHEET 23 OF 27



LEGEND
 [Symbol] CHANNEL COORDINATE POINT TYP.
 [Symbol] NEW BORING
 [Symbol] OLD BORING

DREDGE AREA
 3,841±S.F.
 DIG TO -8 203±C.Y.
 PAY TO -9 261±C.Y.
 TOTAL 464±C.Y.
 SHALLOW ROCKS AND Boulders NO BORING SAMPLE TAKEN

DREDGE AREA
 85,443±S.F.
 DIG TO -8 3,992±C.Y.
 PAY TO -9 336±C.Y.
 TOTAL 4,328±C.Y.



SECTION P-P
 HOSPITAL COVE CHANNEL (TYP.)
 SCALE: 1"=50' H
 1"=10' V



Craig A. Field 5-22-19
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**PHASE III
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 NOVEMBER 9, 2018

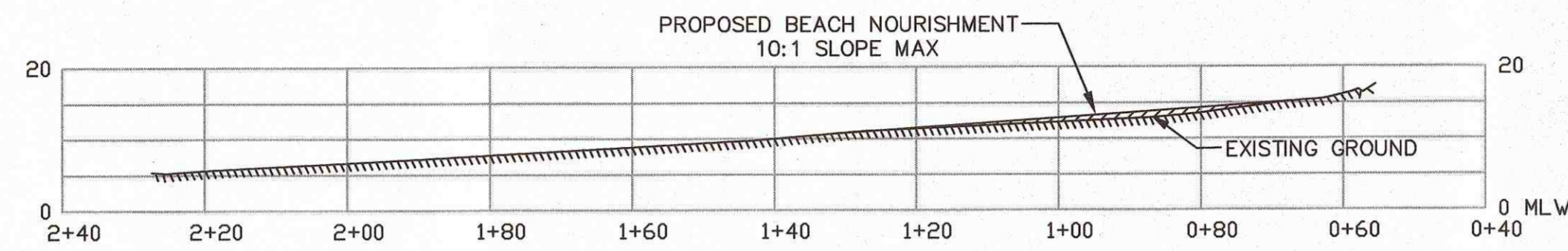
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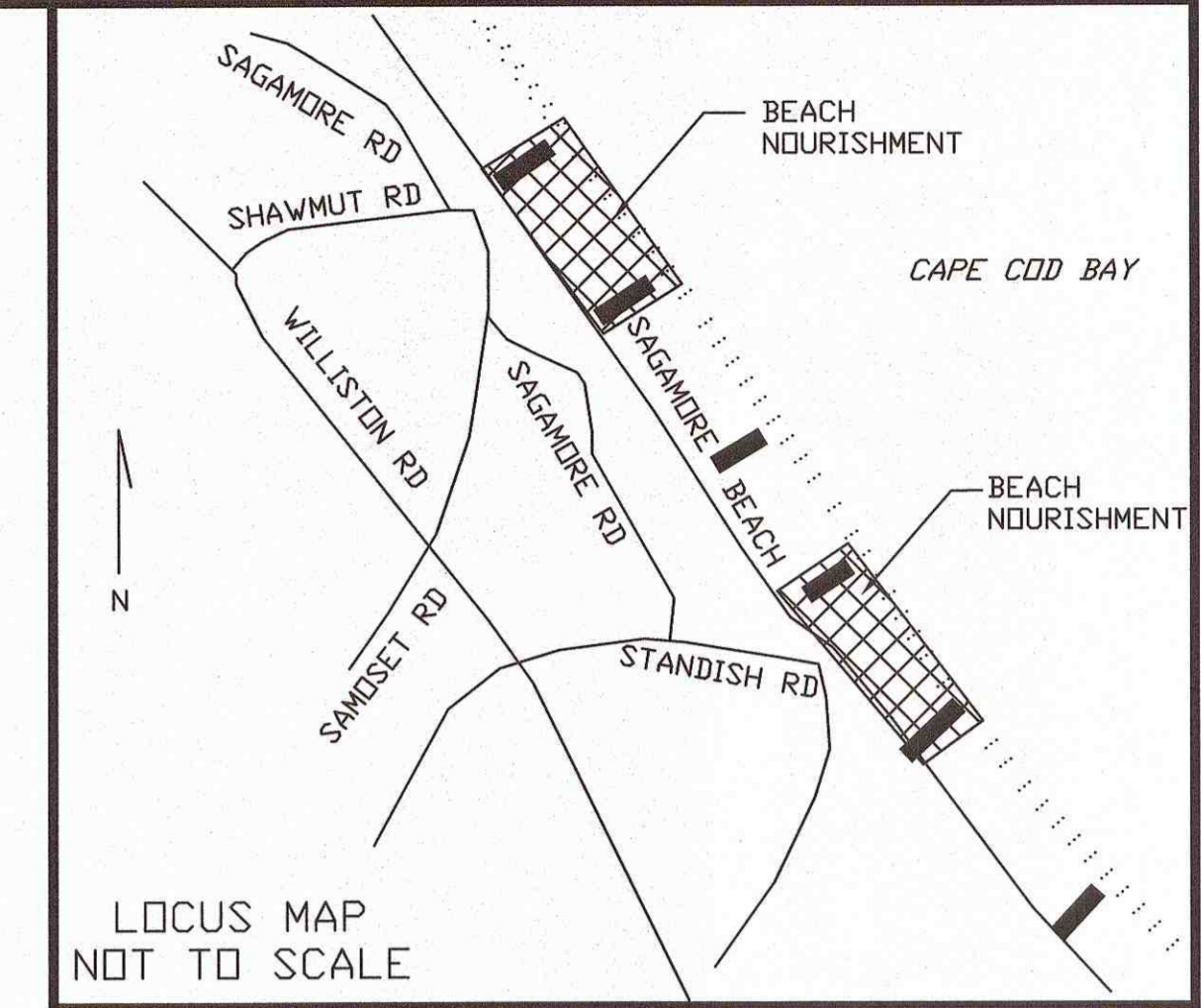
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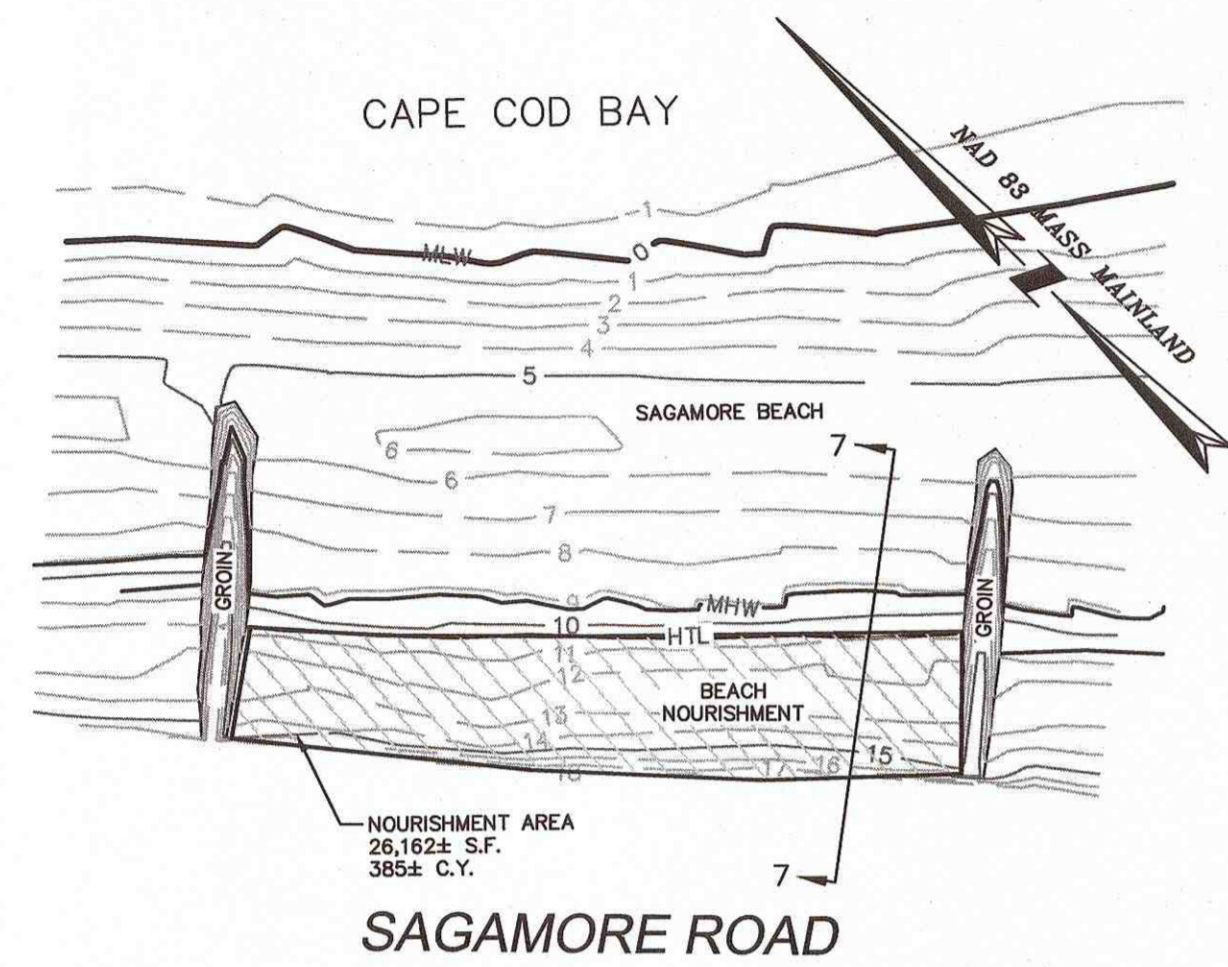
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 SCALE: 1" = 100'
 0 50 100 200 FEET
 FILE: 48075-COMP.DWG
 DWG.: 6517-01 SHEET 26 OF 27
 JOB. NO: 48075.08



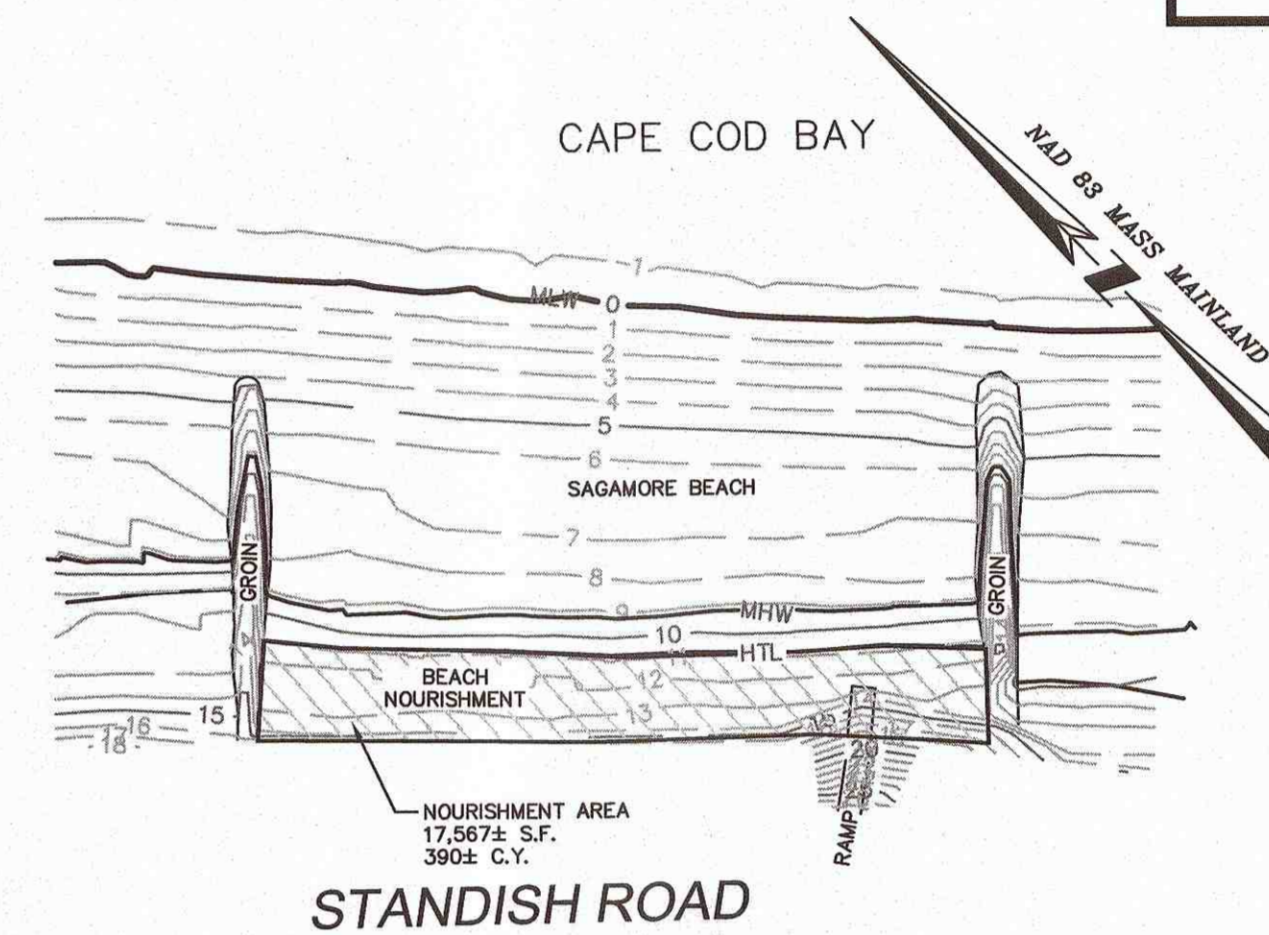
TYPICAL NOURISHMENT SECTION 7-7
SCALE: 1" = 20'



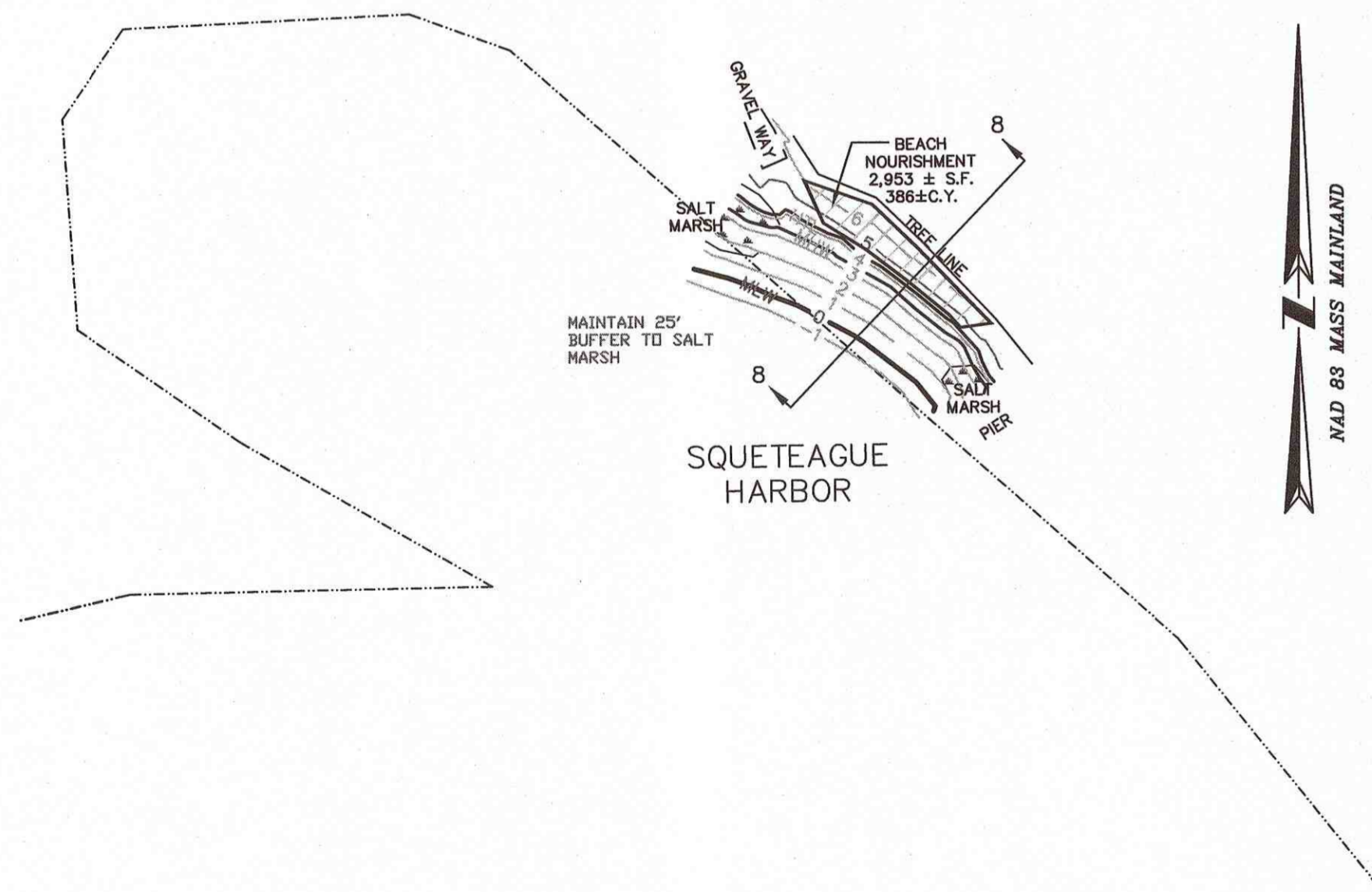
LOCUS MAP
NOT TO SCALE



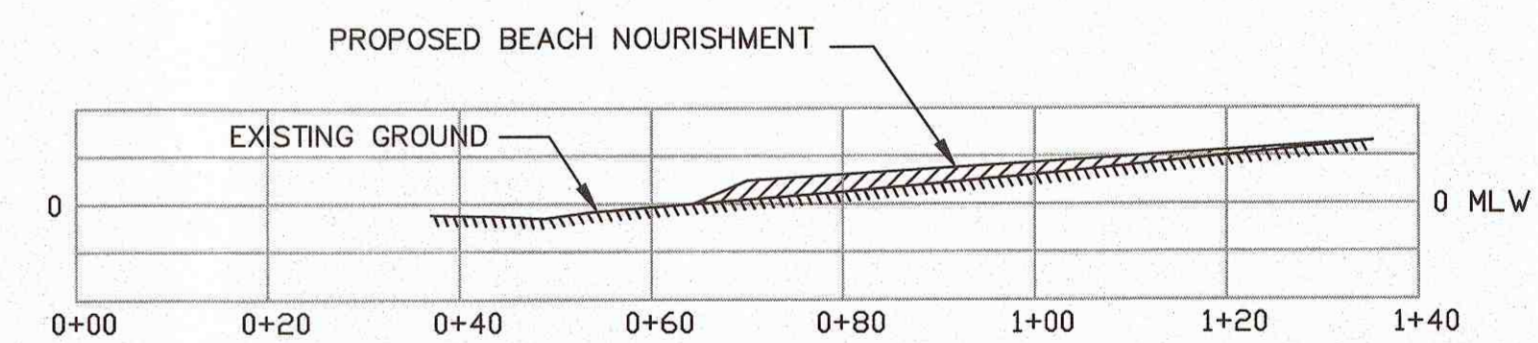
SAGAMORE ROAD



STANDISH ROAD



SQUETEAGUE HARBOR



TYPICAL NOURISHMENT SECTION 8-8
SCALE: 1" = 20'



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IN
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BEACH
NOURISHMENT

NOVEMBER 9, 2018

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