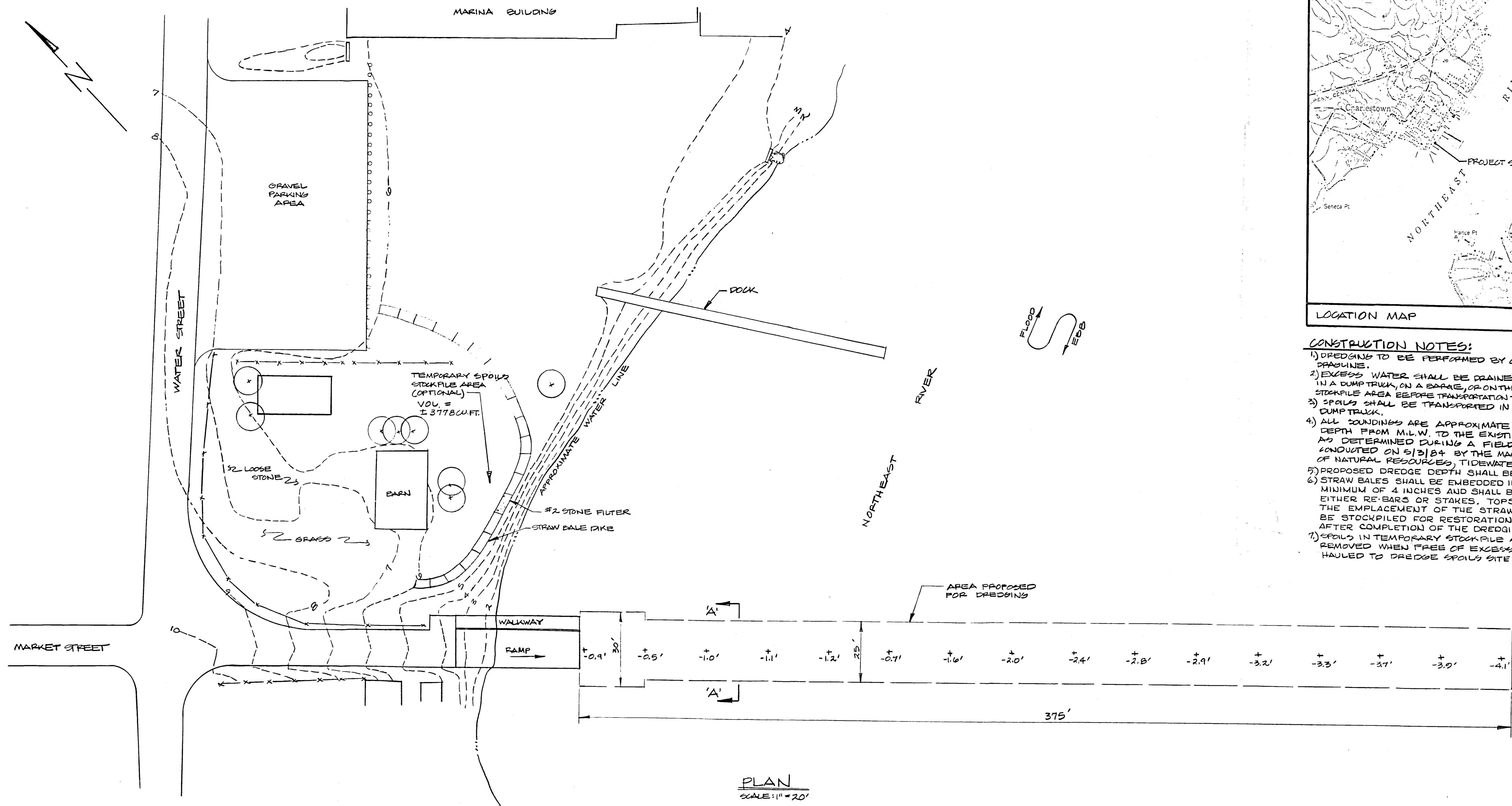
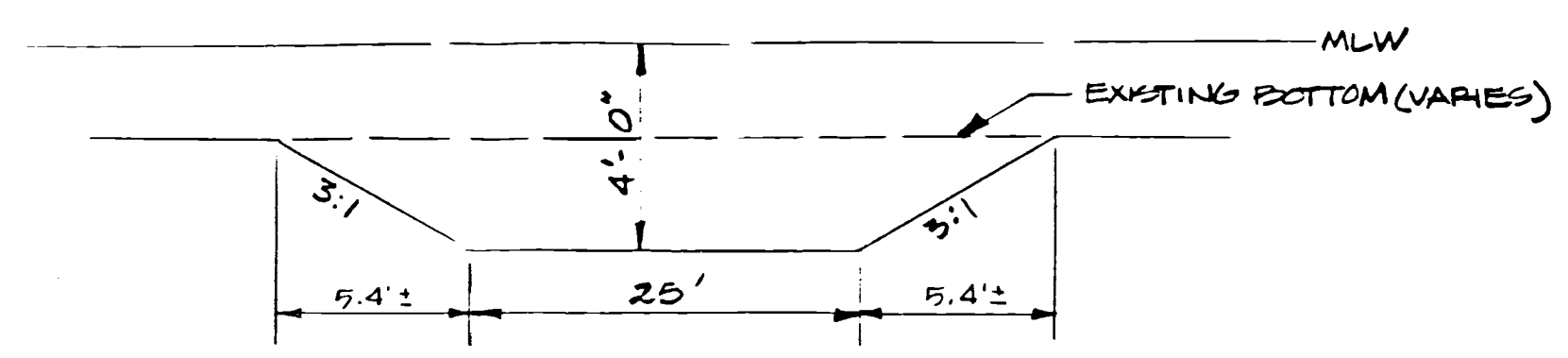




PLAN
SCALE: 1" = 20'



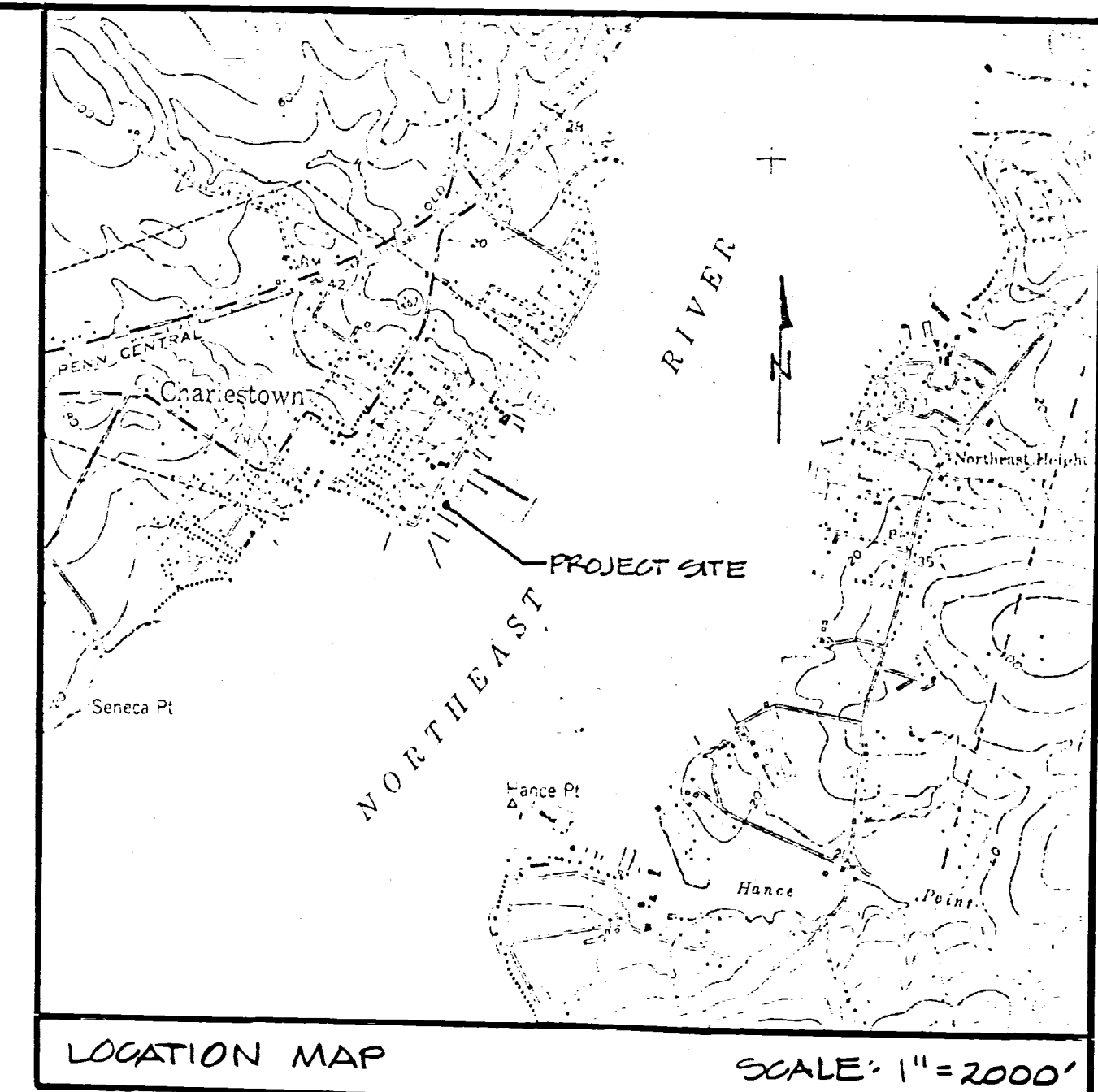
TYPICAL SECTIONS 'A-A'
NO SCALE

THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.

We, **TATMAN & LEE ASSOCIATES, INC.**, hereby certify that the sediment control practices contained within this plan have been designed in accordance with the "Standards and Specifications for Soil Erosion and Sedimentation Control in Developing Areas" (USDA-SCS).

I/we hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

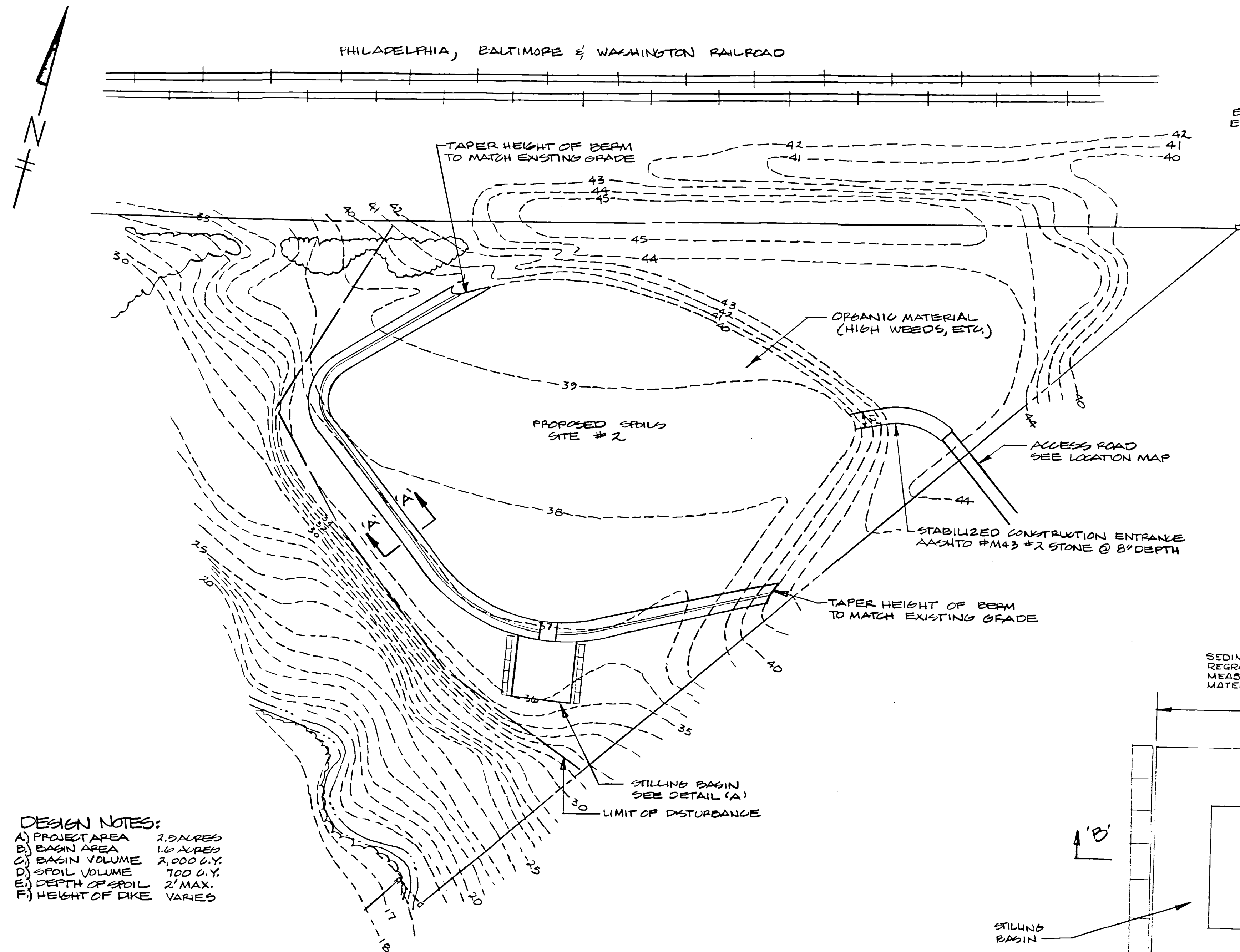
Owner/Developer (Name and Title) _____ Date _____



- CONSTRUCTION NOTES:**
- 1) DREDGING TO BE PERFORMED BY CLAM-SHELL OR DRAGLINE.
 - 2) EXCESS WATER SHALL BE DRAINED FROM DREDGE SPOILS IN A DUMP TRUCK, ON A BARGE, OR ON THE TEMPORARY SPOIL STOCKPILE AREA BEFORE TRANSPORTATION TO DREDGE SPOILS SITE.
 - 3) SPOILS SHALL BE TRANSPORTED IN A LEAK-PROOF DUMP TRUCK.
 - 4) ALL SOUNDINGS ARE APPROXIMATE AND INDICATE DEPTH FROM M.L.W. TO THE EXISTING RIVER BOTTOM AS DETERMINED DURING A FIELD SURVEY CONDUCTED ON 5/3/84 BY THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, TIDEWATER ADMINISTRATION.
 - 5) PROPOSED DREDGE DEPTH SHALL BE 4.0' BELOW M.L.W.
 - 6) STRAW BALES SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF 4 INCHES AND SHALL BE ANCHORED WITH EITHER RE-BARS OR STAKES. TOPSOIL AND SOD FROM THE EMPLACEMENT OF THE STRAW BALES SHOULD BE STOCKPILED FOR RESTORATION OF THE AREA AFTER COMPLETION OF THE DREDGING.
 - 7) SPOILS IN TEMPORARY STOCKPILE AREA SHALL BE REMOVED WHEN FREE OF EXCESSIVE DRAINAGE AND HAULED TO DREDGE SPOILS SITE 2.

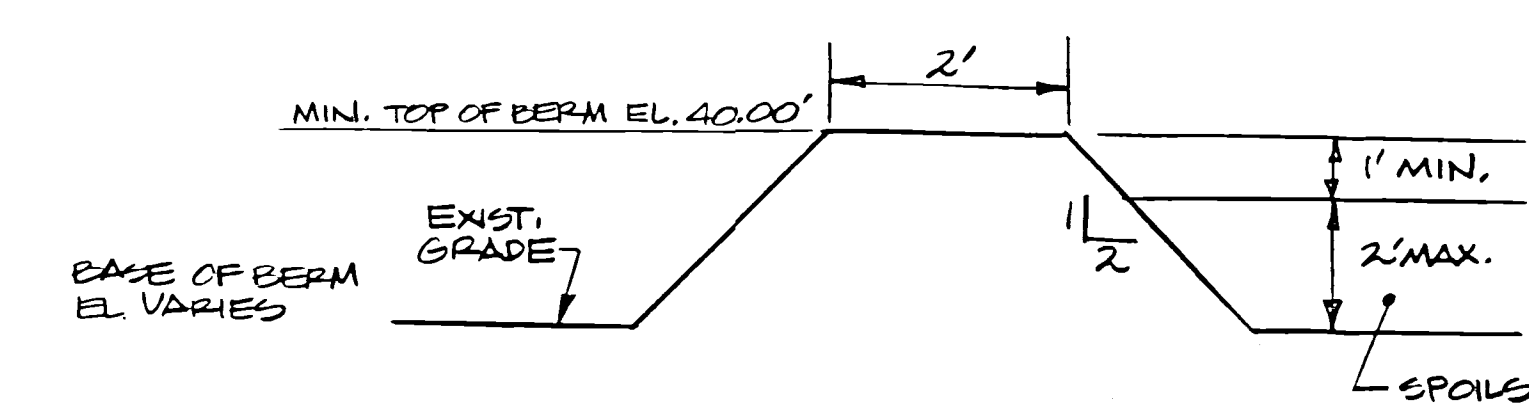
CHARLESTOWN DREDGING
DREDGING SITE NO. 1
PLANS AND SECTIONS
TOWN OF CHARLESTOWN
CECIL COUNTY, MARYLAND

DRAWN BY D.M.H.		Tatman & Lee Associates, Inc. Consulting Engineers 314 Brandywine Boulevard Wilmington, DE 19809 Phone: 302/762-4200	
DESIGNED BY R.G.D.			
CHECKED BY E.K.			
APPROVED BY			
5	REMOVE SPOILS SITE #1 FROM NOTE 7	D.M.H.	DATE
2	REVISED PER WETLANDS ADMIN. COMMENTS	D.M.H.	DATE
1	REVISED PER S.C.D. COMMENTS	D.M.H.	DATE
NO. REVISIONS		REVISIONS	CHECKED BY/DATE
COMM. NO.		DATE	SCALE
532-84-5		11.2.1984	AS SHOWN
DRAWING NO.		1 OF 4	

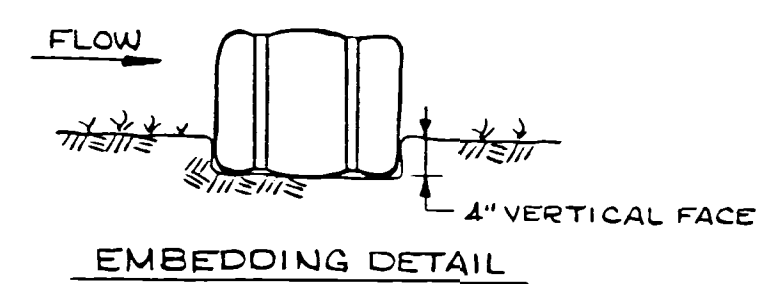


- DESIGN NOTES:**
- A) PROJECT AREA 2.5 ACRES
 - B) BASIN AREA 1.0 ACRES
 - C) BASIN VOLUME 2,000 C.Y.
 - D) SPOIL VOLUME 700 C.Y.
 - E) DEPTH OF SPOIL 2' MAX.
 - F) HEIGHT OF DIKE VARIES

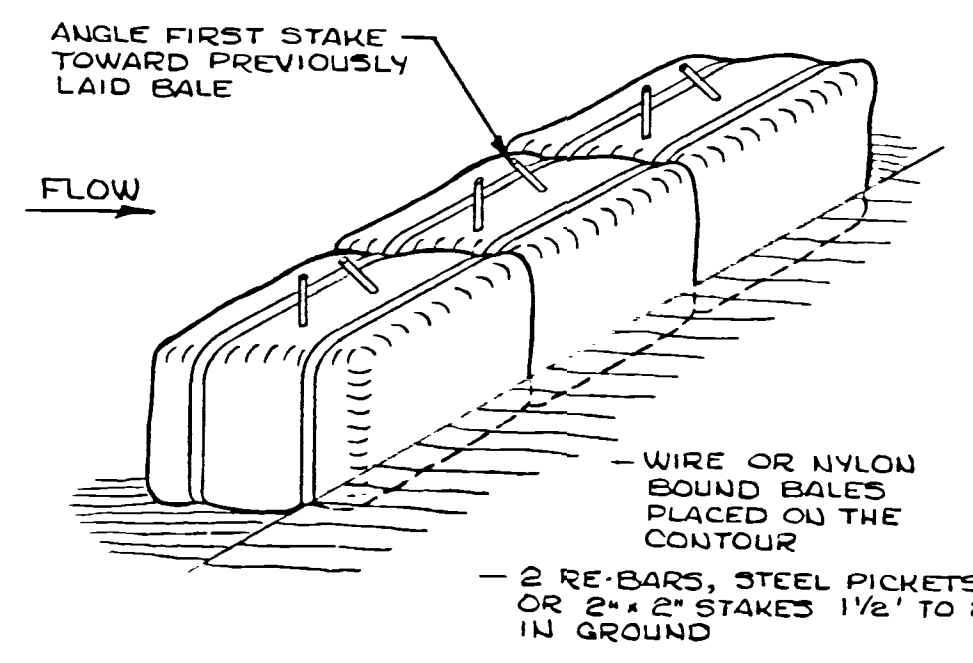
PLAN
SCALE: 1" = 50'



SECTION 'A-A'
NO SCALE



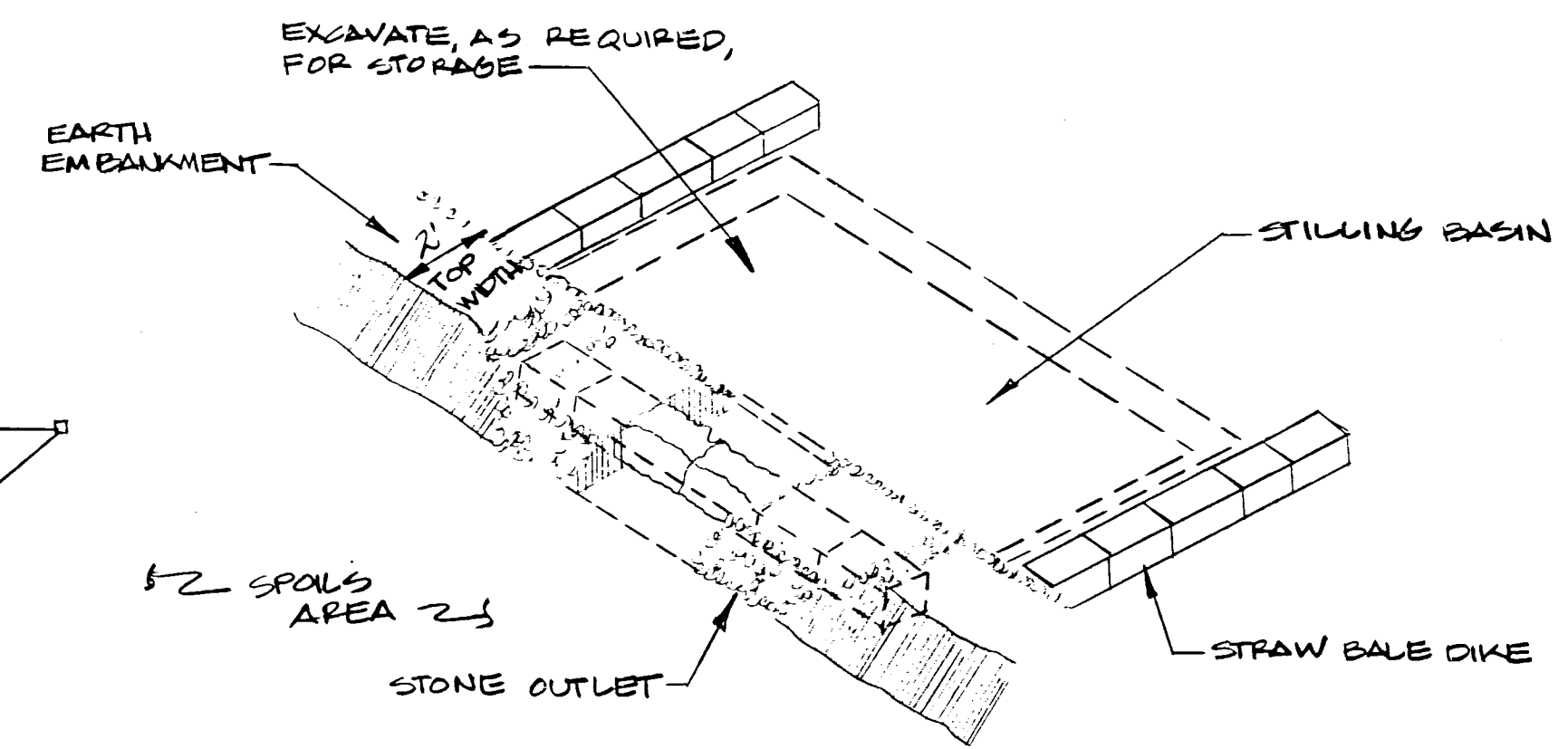
EMBEDDING DETAIL



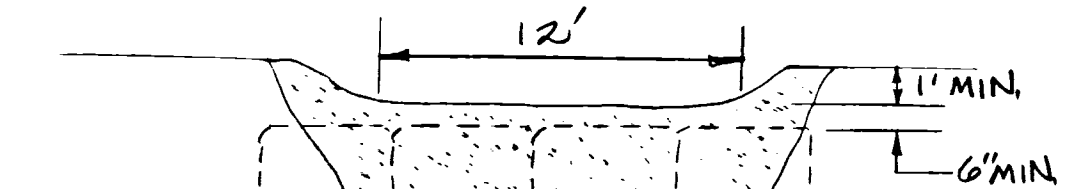
ANCHORING DETAIL

NOTE: DETAILS TYPICAL FOR DIKES AND STRAW BALES USED IN STONE OUTLET STRUCTURE.

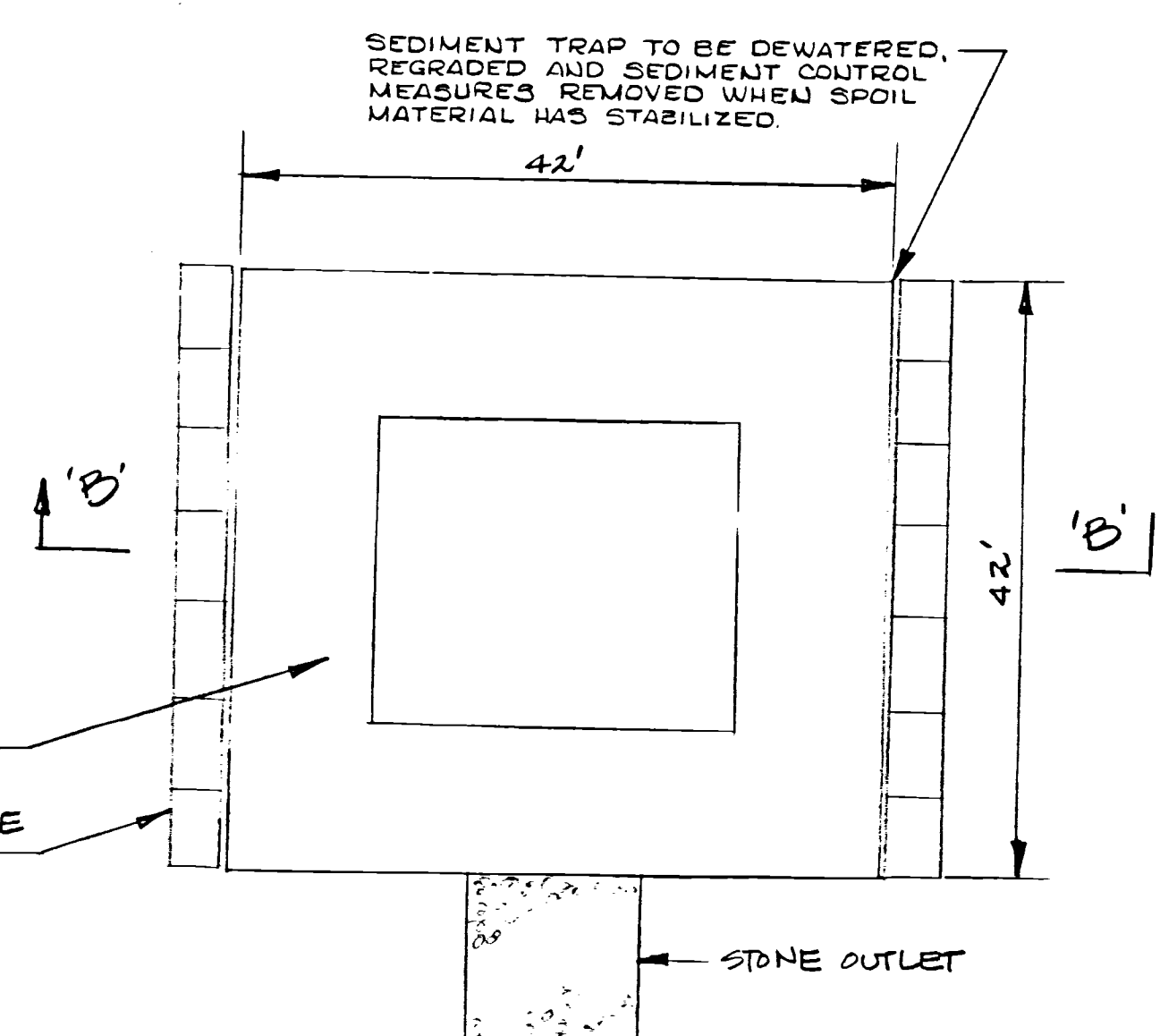
STRAW BALE DIKE DETAILS
NO SCALE



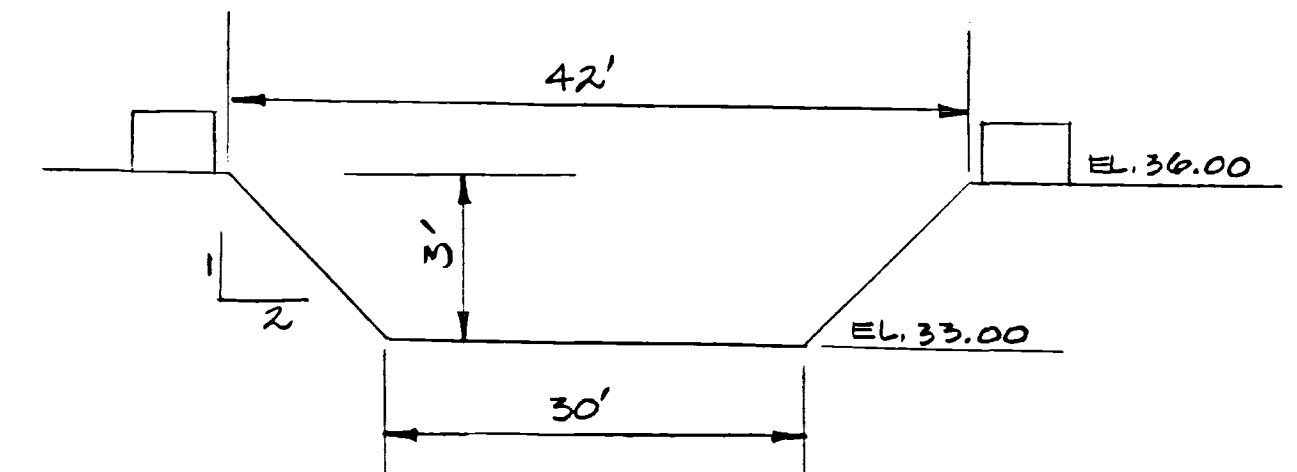
ISOMETRIC
NO SCALE



ELEVATION
NO SCALE

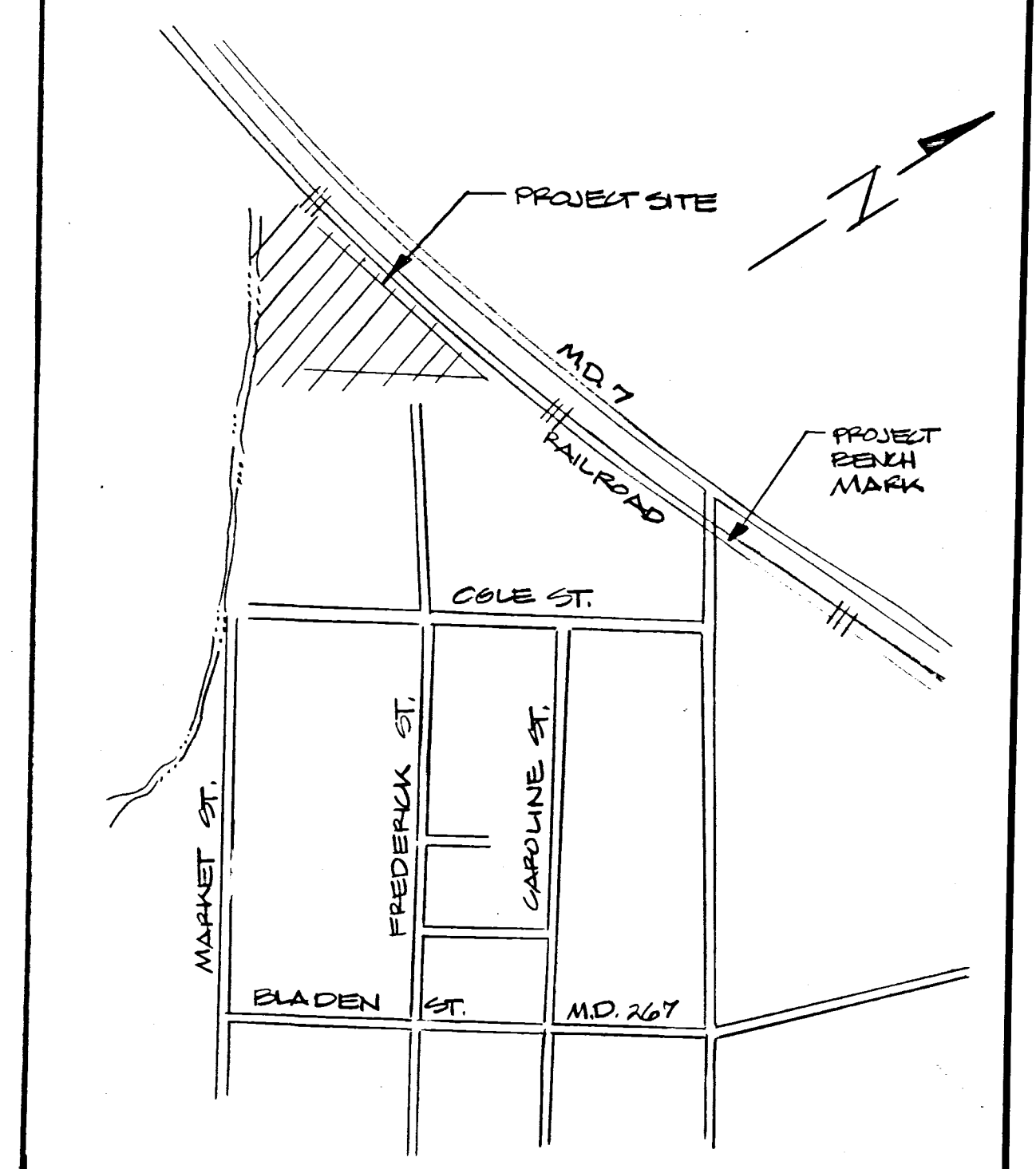


PLAN



SECTION 'B-B'

DETAIL 'A'
STONE OUTLET & STILLING BASIN
NO SCALE



LOCATION MAP SCALE: 1" = 450'

- CONSTRUCTION NOTES:**
- 1) NOTES 1-18, SHEET 3 OF 4 OF THIS CONTRACT SHALL APPLY TO ALL ACTIVITIES IN THIS DISPOSAL AREA.
 - 2) ALL TOPOGRAPHIC CONTOURS ARE APPROXIMATE AND MAY VARY FROM ACTUAL FIELD CONDITIONS.
 - 3) INSPECTION & MAINTENANCE SCHEDULE SEE SHT. 3 OF 4.
 - 4) ENGINEER WILL MAKE PERIODIC INSPECTIONS AND WILL NOTIFY THE CONTRACTOR WHEN THE SPOIL MATERIAL HAS STABILIZED.
 - 5) SPOIL MATERIAL SHALL NOT BE PLACED IN DISPOSAL AREA UNTIL EMBANKMENTS ARE STABILIZED.
 - 6) EMBANKMENT MATERIAL AND CONSTRUCTION MEASURES SHALL BE IN ACCORDANCE WITH SECTION 206, STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS, MARYLAND DEPARTMENT OF TRANSPORTATION, JANUARY 1982.

CECIL SOIL CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL PLAN

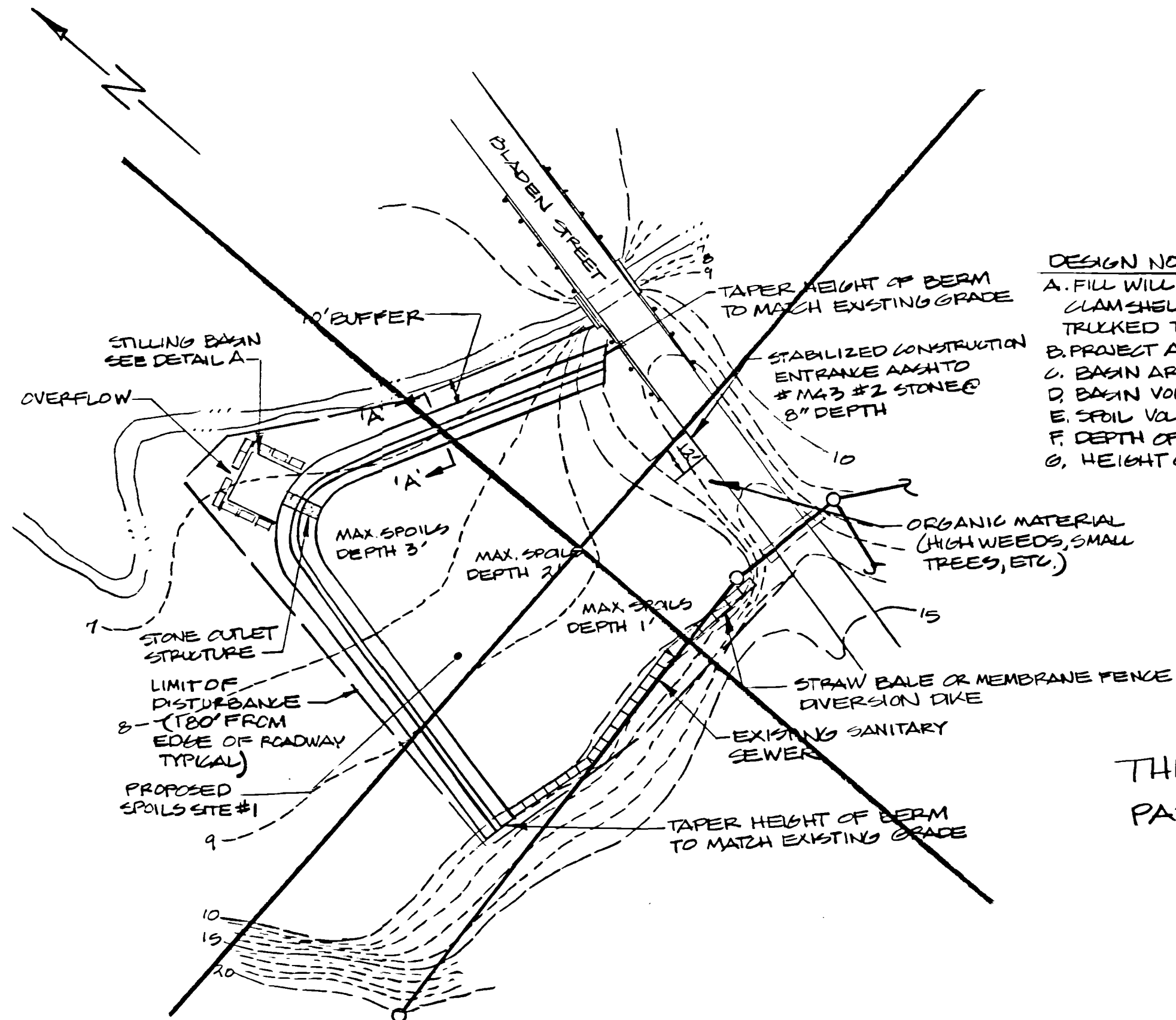
APPROVED BY: [Signature] DATE: 11/2/84

Reviewed for S.C.D. [Signature]
and meets Technical Requirements
Date 11/2/84
U.S. Army Corps of Engineers
Conservation Service

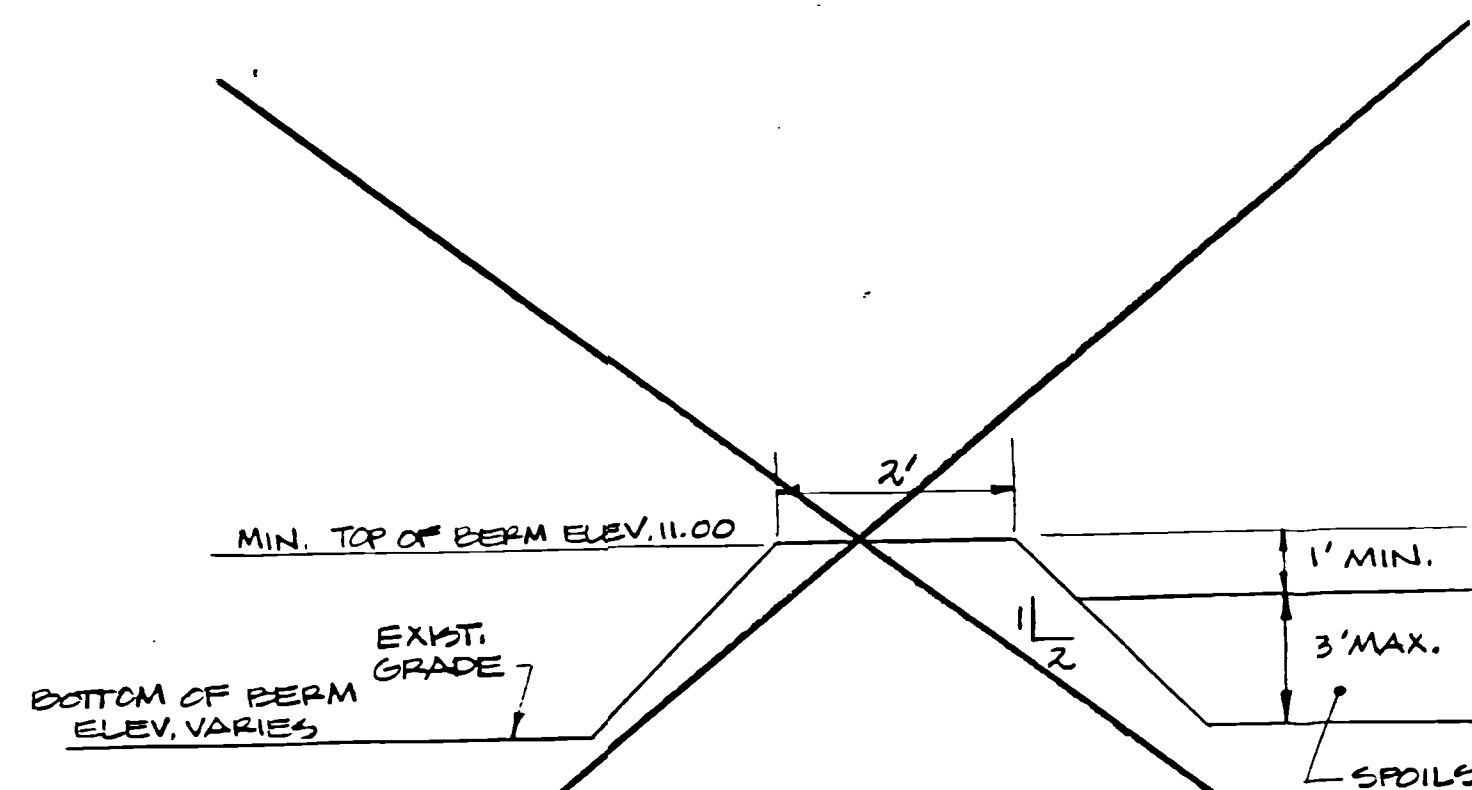
CHARLESTOWN DREDGING
DREDGE SPOILS SITE NO. 2
PLANS, SECTIONS AND DETAILS
TOWN OF CHARLESTOWN
CECIL COUNTY, MARYLAND

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THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPURTENANT.



PLAN
SCALE: 1"=50'



SECTION 'A-A'
NO SCALE

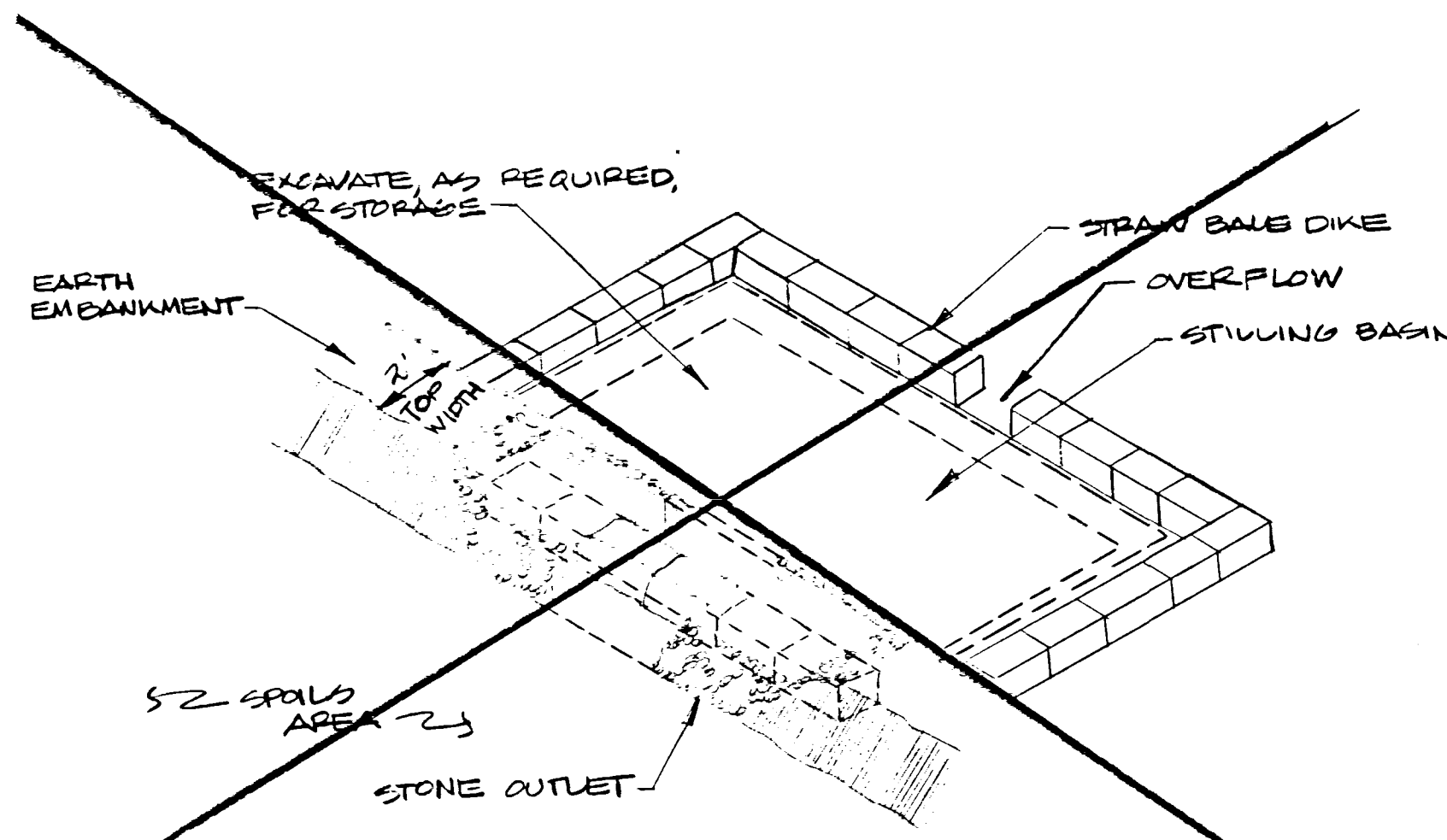
INSPECTION & MAINTENANCE SCHEDULE

- 1) ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED WEEKLY OR AFTER EACH RAINFALL; WHICH EVER IS MORE FREQUENT.
- 2) IN THE EVENT ANY PRACTICE IS OBSERVED TO BE IN NEED OF MAINTENANCE OR RECONSTRUCTION, THE PRACTICE SHALL BE IMMEDIATELY RESTORED TO ITS ORIGINAL CONDITION PER THE APPROPRIATE S.C.D. DETAIL INCLUDED HEREIN.
- 3) THE SEDIMENT TRAP SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL GRADES AND ELEVATIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.

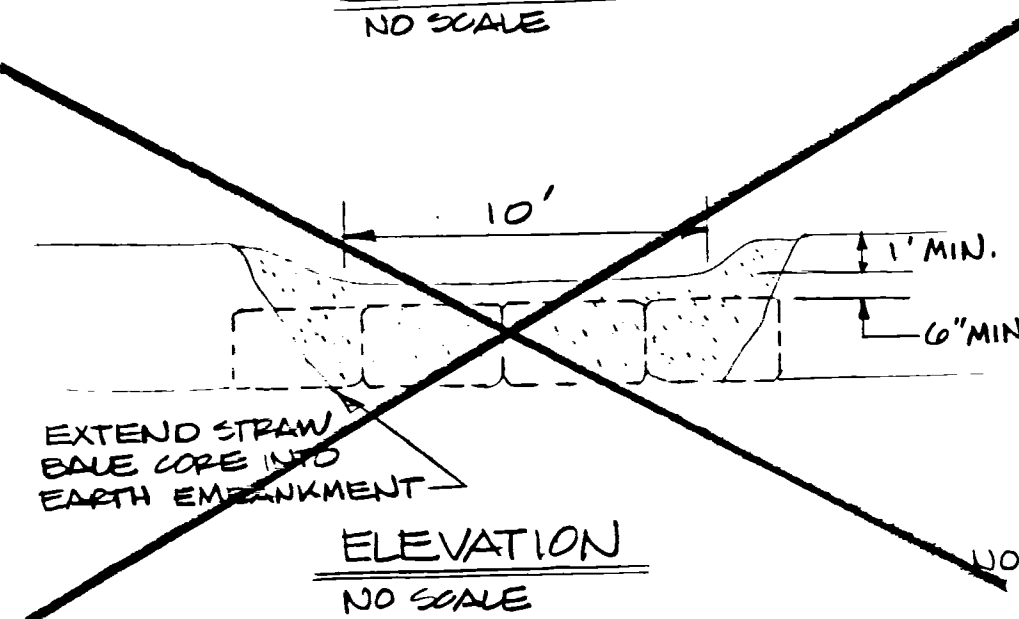
DESIGN NOTES:

- A. FILL WILL BE DREDGED BY CLAMSHELL OR DRAGLINE & TRUCKED TO SITE.
- B. PROJECT AREA - 0.5 ACRES ±
- C. BASIN AREA - 0.4 ACRES ±
- D. BASIN VOLUME - 1300 C.Y. ±
- E. SPOIL VOLUME - 1000 C.Y. ±
- F. DEPTH OF SPOIL = 3' MAX.
- G. HEIGHT OF DIKE VARIES

THIS SITE NOT
PART OF THIS
CONTRACT

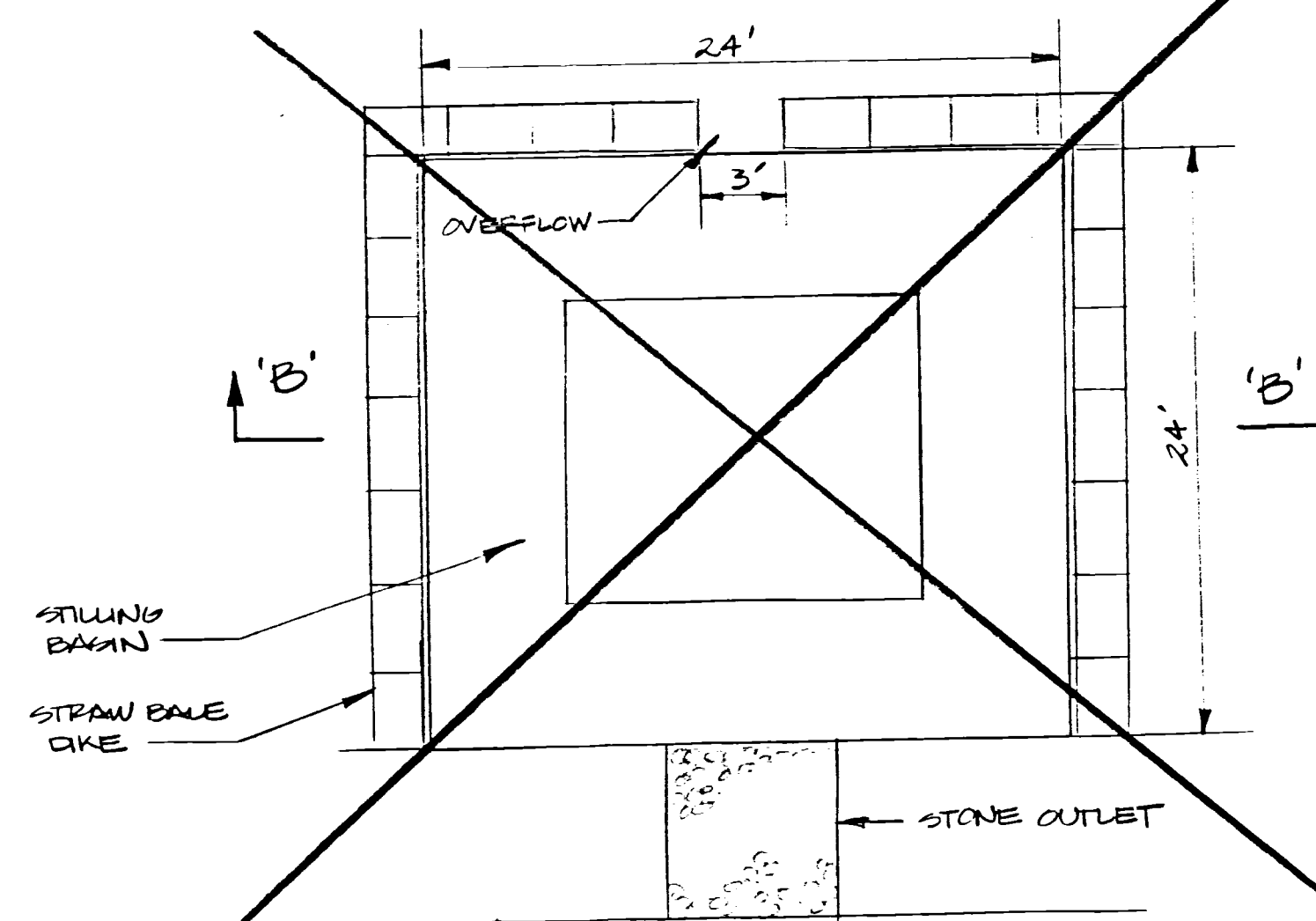


ISOMETRIC
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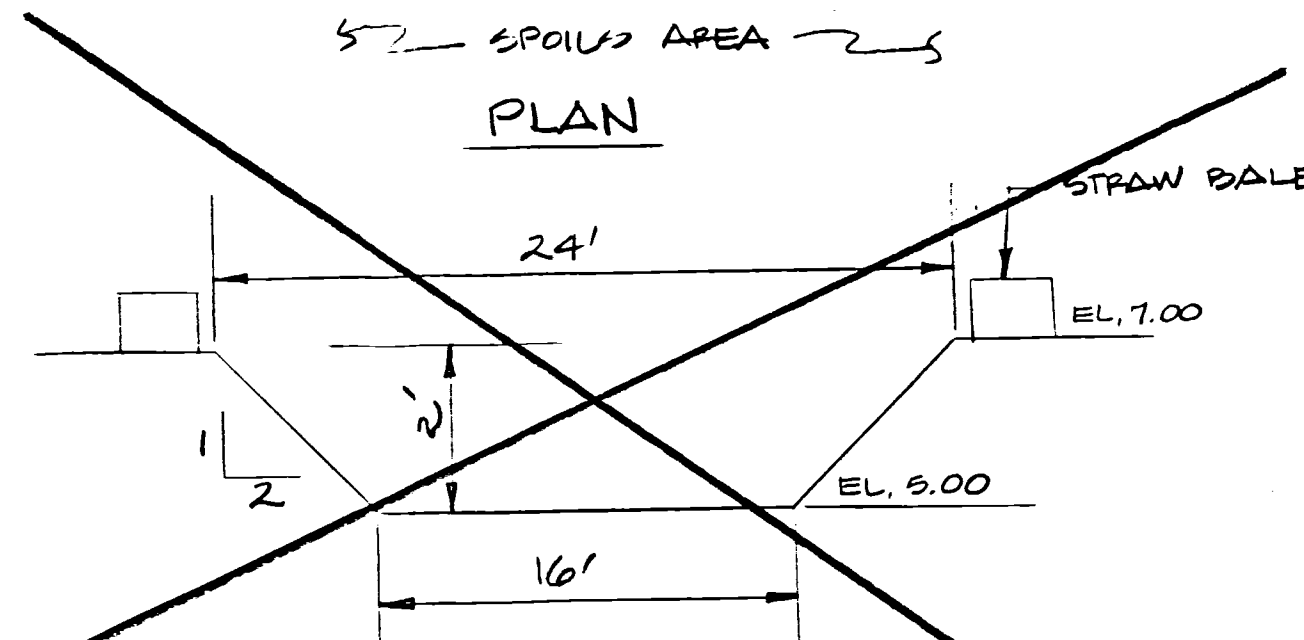


ELEVATION
NO SCALE

NOTE: SEE SHT. 40F4 FOR STRAW BALE DIKE DETAILS.



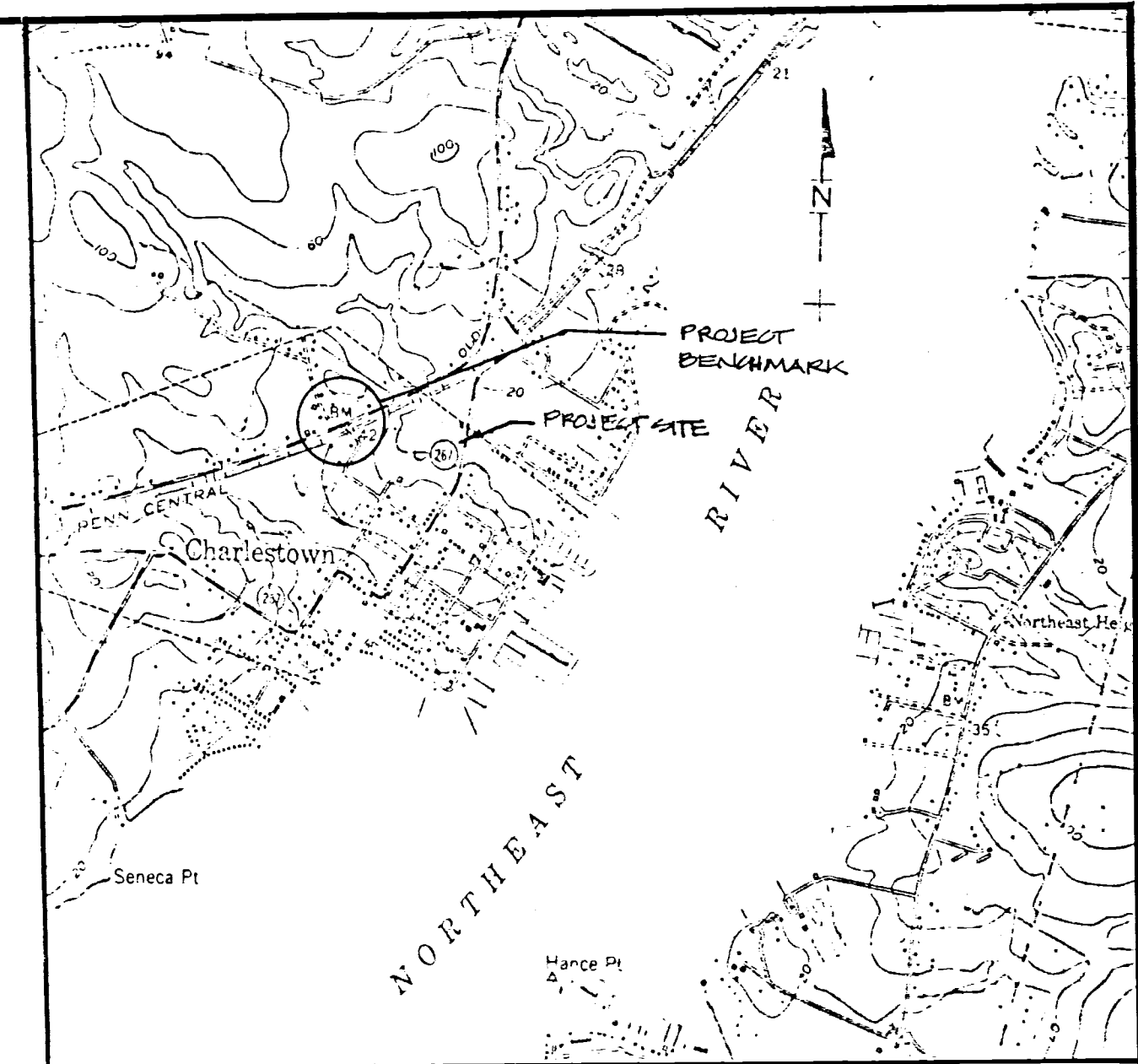
PLAN



SECTION 'B-B'

DETAIL 'A'
STONE OUTLET & STILLING
BASIN

NO SCALE



LOCATION MAP

SCALE: 1"=2000'

CONSTRUCTION NOTES:

- 1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CECIL COUNTY CONSERVATION DISTRICT.
- 2) CECIL COUNTY CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD OR DELETE ITEMS.
- 3) ALL DISTURBED AREAS SHALL BE TOPSOILED, SEEDED, AND MULCHED DURING THE APPROPRIATE SEASON OF THE YEAR. (FEB. 1 - APRIL 15)
- 4) A. TOPSOIL SHALL BE REMOVED, STOCKPILED ON SITE, AND REPLACED.
B. SITE RECLAMATION MATERIALS & SEED SHALL CONTAIN:
1. STON LIME/ACRE
2. VILTON 10-10-10 /ACRE
3. SOLO 60-ACRE KENTUCKY 31 TALL PEGUE
4. 20 LB/ACRE LUSP SEEDS
5. VILTON/ACRE STRAW MULCH WITH CHEMICAL TACK (50 GAL./AC.)
- 5) CRUSHED STONE FOR STONE OUTLET STRUCTURE SHALL MEET AASHTO DESIGNATION M43 SIZE NO. 3 OR 24. CRUSHER RUN WILL NOT BE ALLOWED.
- 6) AREA UNDER EMBANKMENT SHALL BE CLEARLY GRUBBED AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
- 7) TREES WITHIN FILL AREA ARE TO BE REMOVED AND DISPOSED OFF SITE AT CONTRACTOR'S EXPENSE.
- 8) FILL MATERIAL MUST BE STABILIZED PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROL MEASURES.
- 9) STRAW BALES SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF 4" AND SHALL BE ANCHORED WITH REBAR OR STAKES.
- 10) CONTRACTOR SHALL CONSTRUCT SPOIL DISPOSAL AREA AND SEDIMENT AND EROSION CONTROL MEASURES BEFORE ANY DREDGING WILL BE ALLOWED.
- 11) ~~CONTRACTOR SHALL DATE SPOILS TO MAX CAPACITY AT THIS SITE BEFORE PLACING SPOILS AT DOWNSIDE SITE NO. 2.~~
- 12) WHERE POSSIBLE, CONTRACTOR SHALL UTILIZE SOIL MATERIAL ON-SITE TO CONSTRUCT EMBANKMENT. ANY OFF-SITE BORROW MATERIAL REQUIRED FOR EMBANKMENT CONSTRUCTION SHALL BE FURNISHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 13) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY AND LAYOUT WORK NEEDED TO CONSTRUCT THE FACILITIES.
- 14) PROJECT DATUM: U.S.C. AND G.S. BENCH MARK NO. 42 W.1, 1928 - STANDARD TABLET SET IN THE CONCRETE BASE OF P.R.P. POWER POLE #58-95 STAMPED 42 W.1, 1938 ELEV. 42.069.
- 15) CECIL DPW SHALL BE NOTIFIED 48 HOURS BEFORE COMMENCING LAND DISTURBING ACTIVITY.
- 16) SEQUENCE OF CONSTRUCTION & RECLAMATION
A. CLEAR AND GRUB LIMITS OF CONSTRUCTION (WEEK #1)
B. REMOVE TOPSOIL AND STOCKPILE (WEEK #1)
C. CONSTRUCT EMBANKMENTS FOR SPOILS AREA (WEEK #1)
D. CONSTRUCT OUTLET DEVICE AND SEDIMENT TRAP (WEEK #1)
E. TEMPORARY STABILIZATION OF CONSTRUCTION AREA (WEEK #1)
F. PLACEMENT OF SPOILS IN SPOILS AREA (WEEK #1 TO #6)
G. TEMPORARY VEGETATIVE STABILIZATION (WEEK #2)
H. AFTER SPOILS STABILIZATION, SITE SHALL BE GRADED DOWN TO THE PROCEDURES OUTLINED IN NOTE 4B ABOVE (6 MO. TO 1 YR.)
I. REMOVAL OF SOIL EROSION AND SEDIMENT CONTROL PRACTICES WHEN ALL AREAS ARE SUFFICIENTLY STABILIZED (6 MO. TO 1 YR.)

CONSTRUCTION NOTES - CONT'D.

- 17) ANY MODIFICATIONS TO THE PLAN REQUIRE S.C.D. APPROVAL.
- 18) TEMPORARY VEGETATIVE STABILIZATION SHALL BE RYE @ 3.2 LBS. / 1000 S.F., 10-20-10 @ 15 LBS. / 1000 S.F.

Reviewed for _____ S.C.D.
and meets Technical Requirements

Signature
U.S. Fish & Wildlife Service
CECIL SOIL CONSERVATION DISTRICT
EROSION & SEDIMENT CONTROL PLAN

APPROVED _____ DATE _____

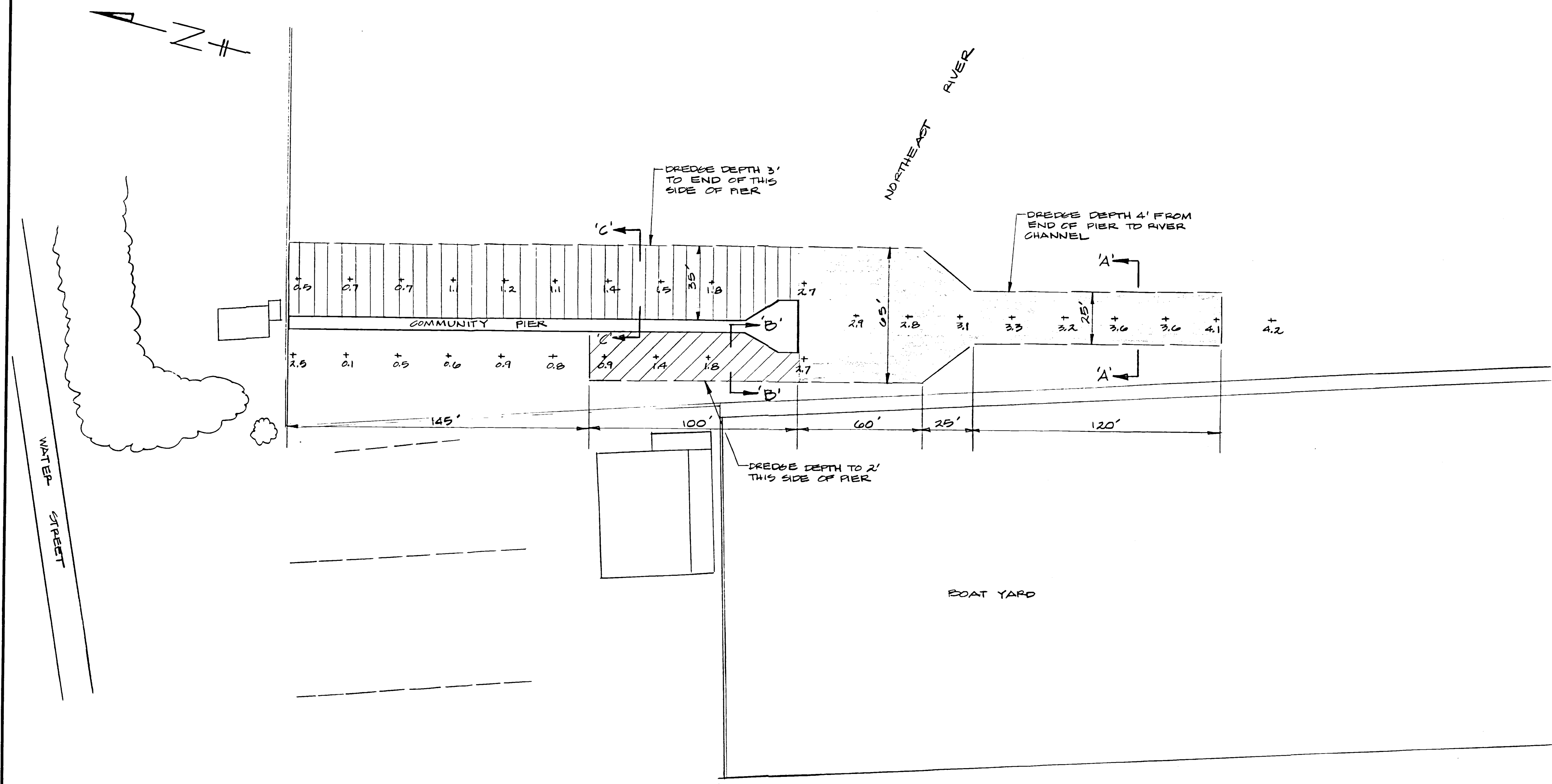
CHARLESTOWN DREDGING
DREDGE SPOILS SITE NO. 1
PLANS, SECTIONS, AND DETAILS
TOWN OF CHARLESTOWN
CECIL COUNTY, MARYLAND

NO.	REVISIONS	DATE	CHECKED BY
2	REMOVE NOTES, DNG'S, REFERING TO SITE NO. 1	11/15/84	AK
1	REVISED PER S.C.D. COMMENTS	11/15/84	AK

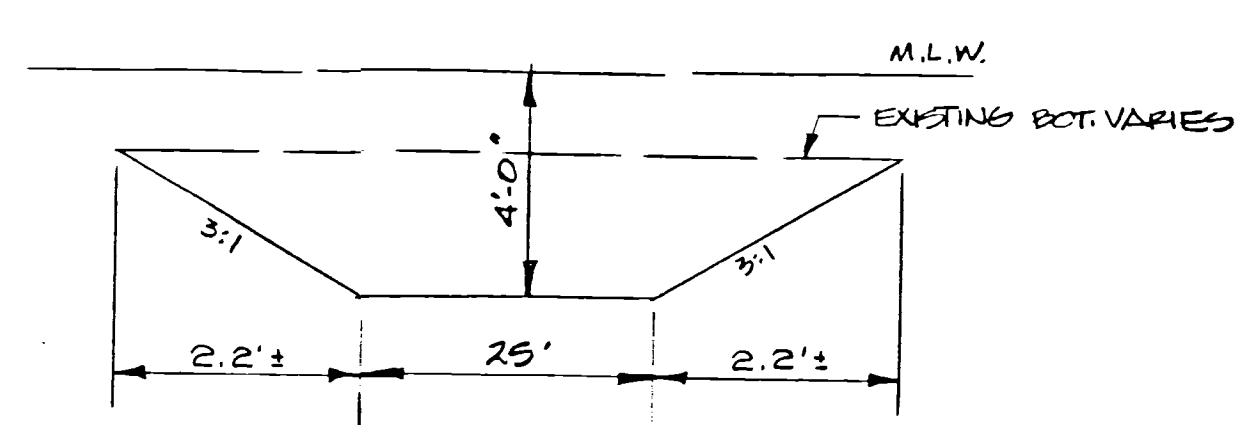
DRAWN BY
D.M.H.
DESIGNED BY
P.C.D.
CHECKED BY
AK
APPROVED BY

Talman & Lee Associates, Inc.
Consulting Engineers
314 Brandywine Boulevard
Wilmington, DE 19809
Phone: 302/762-4200

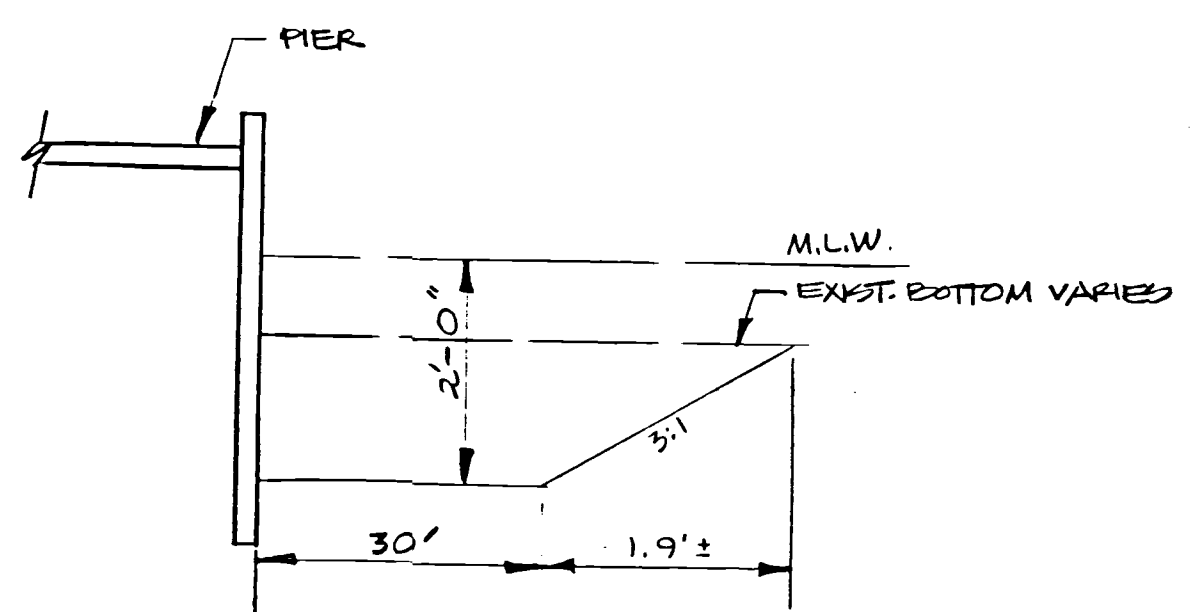
COMM. NO.	DATE	SCALE	DRAWING NO.
532-84-5	11-2-1984	AS SHOWN	3 OF 4



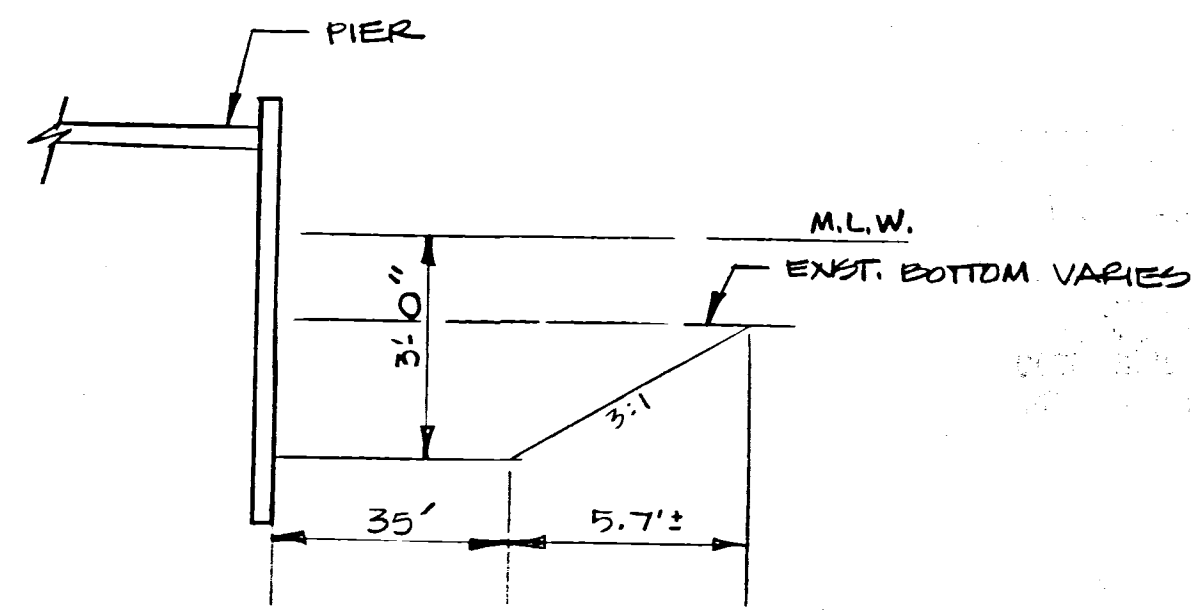
PLAN
SCALE: 1" = 30'



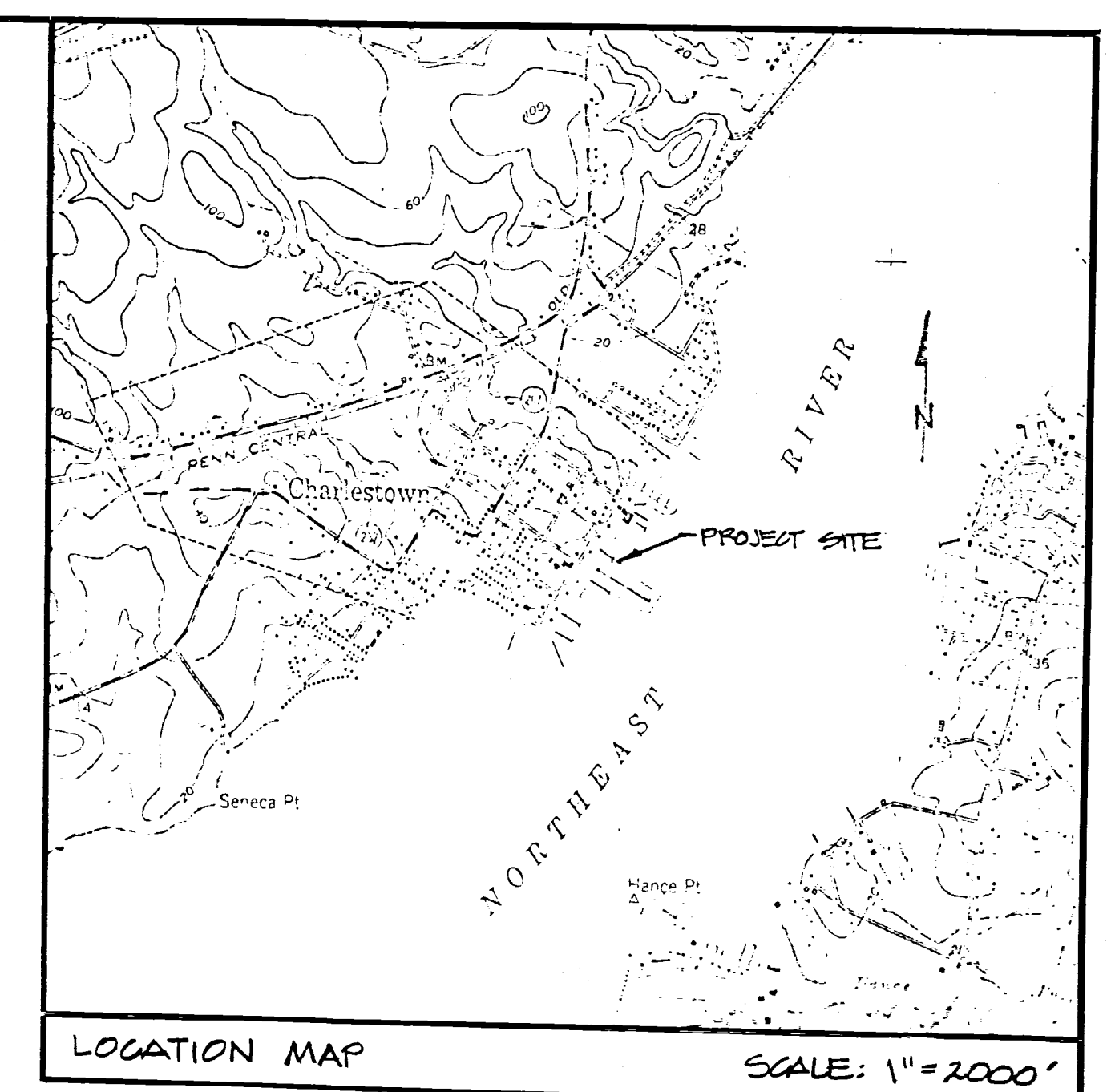
SECTION 'A-A'
NO SCALE



SECTION 'B-B'
NO SCALE

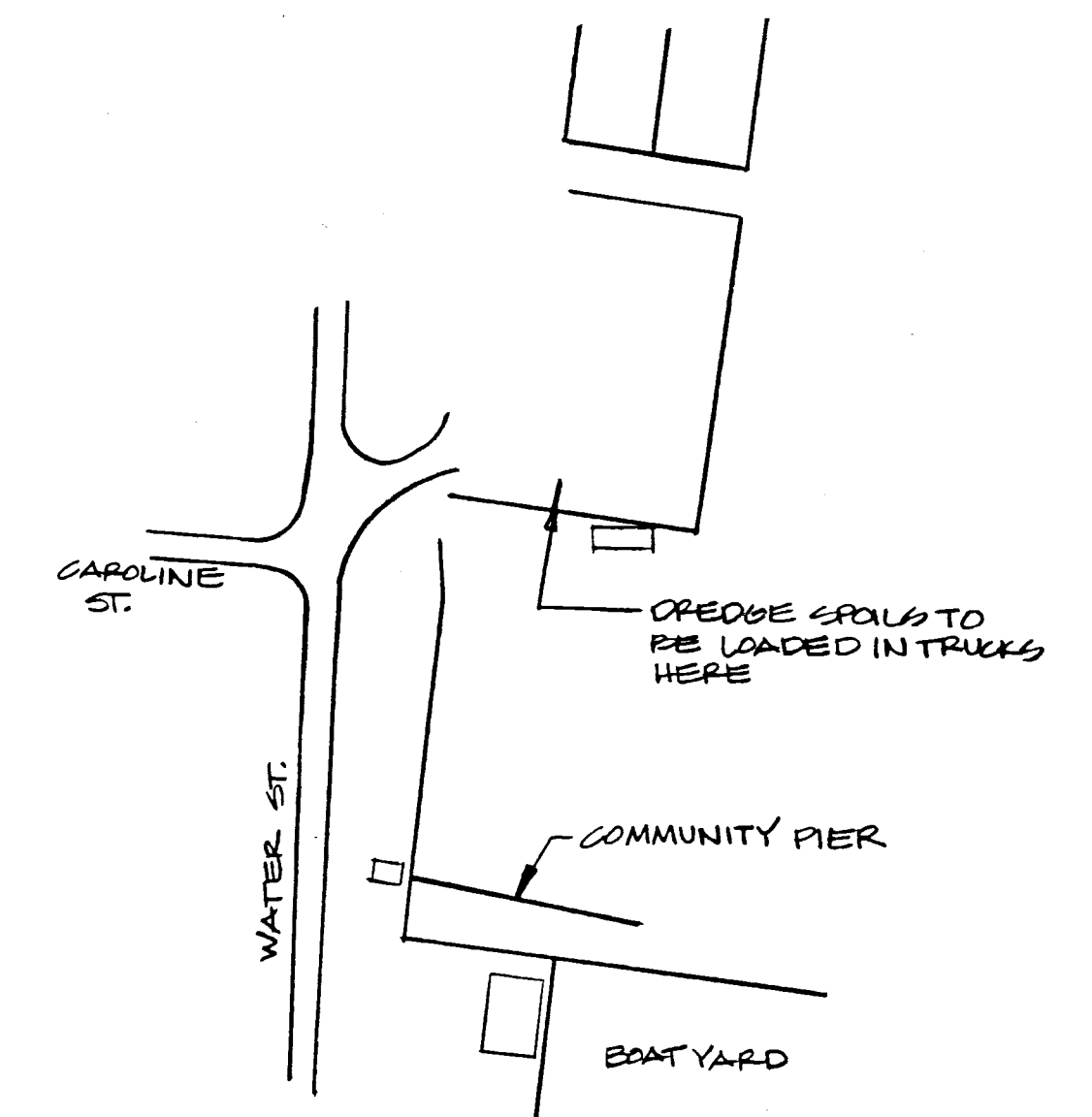


SECTION 'C-C'
NO SCALE



- CONSTRUCTION NOTES:**
- 1) DREDGING TO BE PERFORMED BY CLAMSHELL OR DRAGLINE.
 - 2) EXCESS WATER SHALL BE DRAINED FROM DREDGE SPOILS IN A DUMP TRUCK OR ON A BARGE BEFORE TRANSPORTATION TO DREDGE SPOILS SITE.
 - 3) SPOILS SHALL BE TRANSPORTED IN A LEAKPROOF DUMP TRUCK.
 - 4) ALL SOUNDINGS ARE APPROXIMATE AND INDICATE DEPTH FROM M.L.W. TO THE EXISTING RIVER BOTTOM AS DETERMINED DURING A FIELD SURVEY CONDUCTED ON 5/3/84 BY THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, TIDEWATER ADMINISTRATION.
 - 5) DREDGE DEPTH KEY:

A) 2' BELOW MLW	
B) 3' BELOW MLW	
C) 4' BELOW MLW	



SPOILS LOADING SITE
NO SCALE

CHARLESTOWN DREDGING
DREDGING SITE NO. 2
PLANS AND SECTIONS
TOWN OF CHARLESTOWN
CECIL COUNTY, MARYLAND

THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
