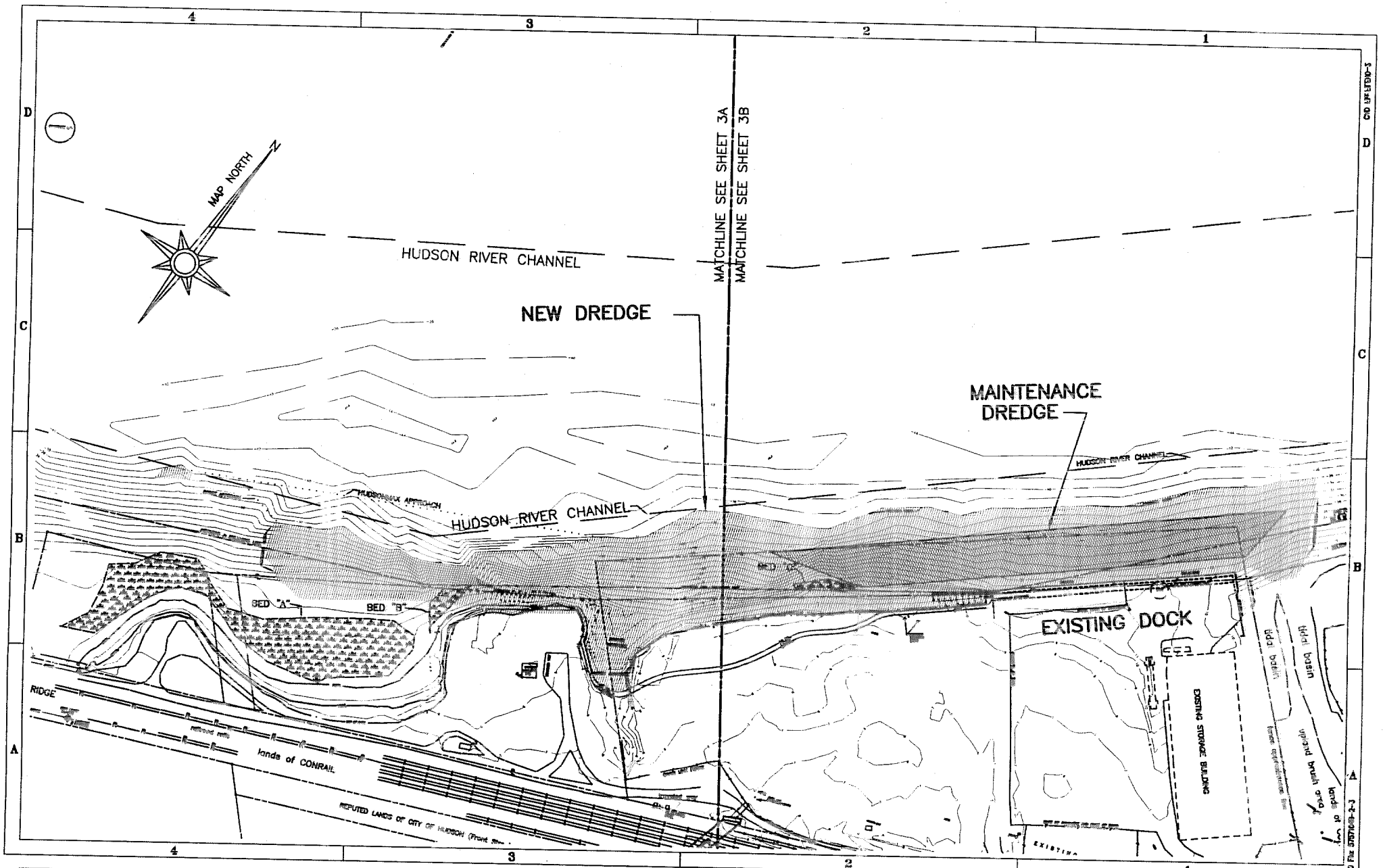

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NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. INLENBURG, PLS DEC. 1998, NOV. 1999 & JULY 2000.
HYDROGRAPHIC INFORMATION TAKEN FROM PLASS NOV. 9, 1999.

LEGEND

	PIERHEAD & BULKHEAD LINE
MHWL	MEAN HIGH WATER LINE
MLWL	MEAN LOW WATER LINE
PL	PROPERTY BOUNDARY LINE
22	EXISTING DEPTH CONTOUR
	NEW DREDGE
	MAINTENANCE DREDGE

PRELIMINARY

SAV

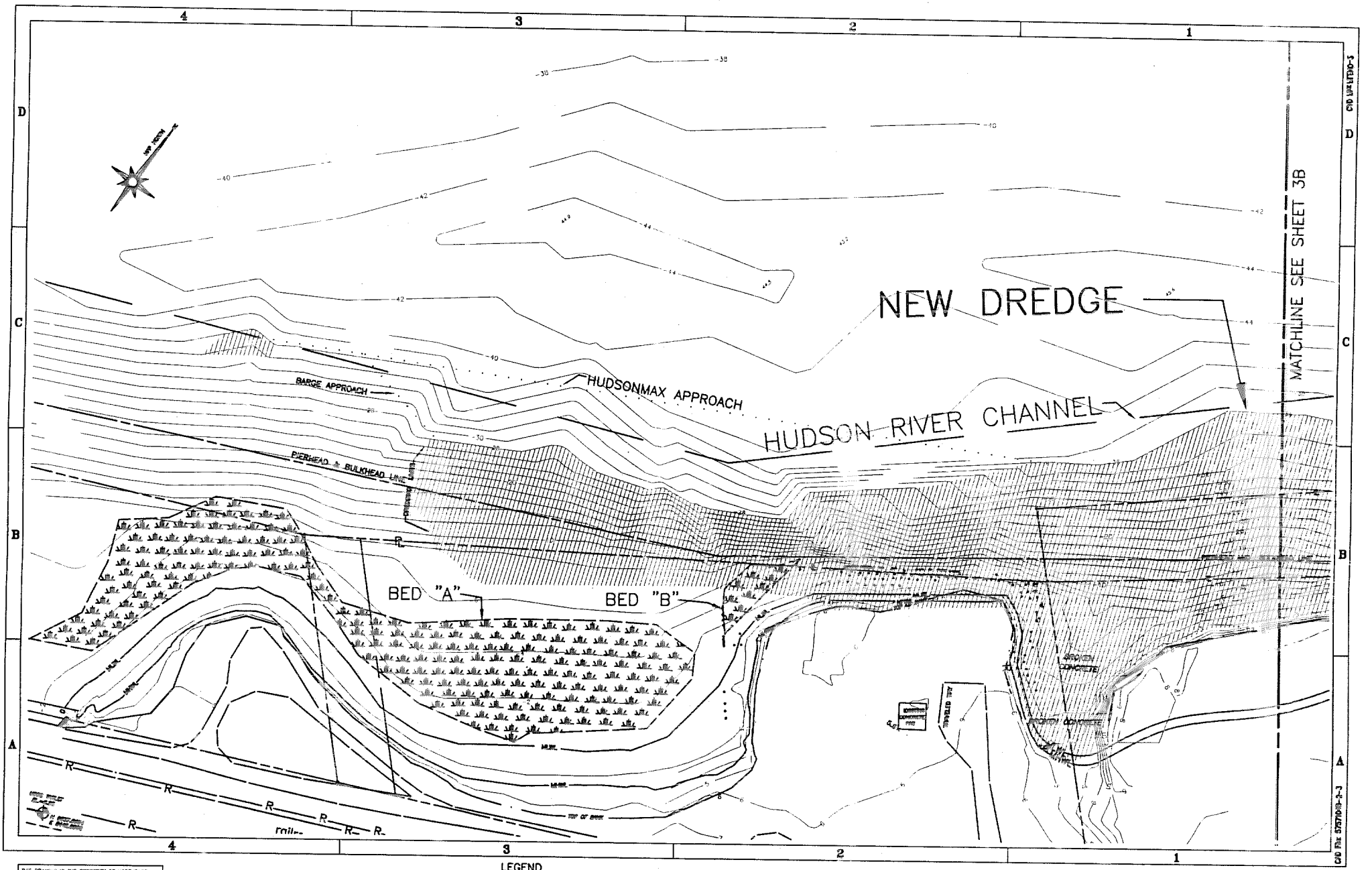
GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
DREDGING AREAS

ST. LAWRENCE CEMENT

Drawing No. 35757-S1048-2-3

Scale: 1"=	10/02/01	Rev: B	SHT 3 OF 10	Size: LTR

Permit Application No. 2000-00943-YN St. Lawrence Cement Company, LLC



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NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. SALENDRA, PLS DEC. 1998, NOV. 1999 & JULY 2000.
HYDROGRAPHIC INFORMATION TAKEN FROM FLASS NOV. 9, 1999.

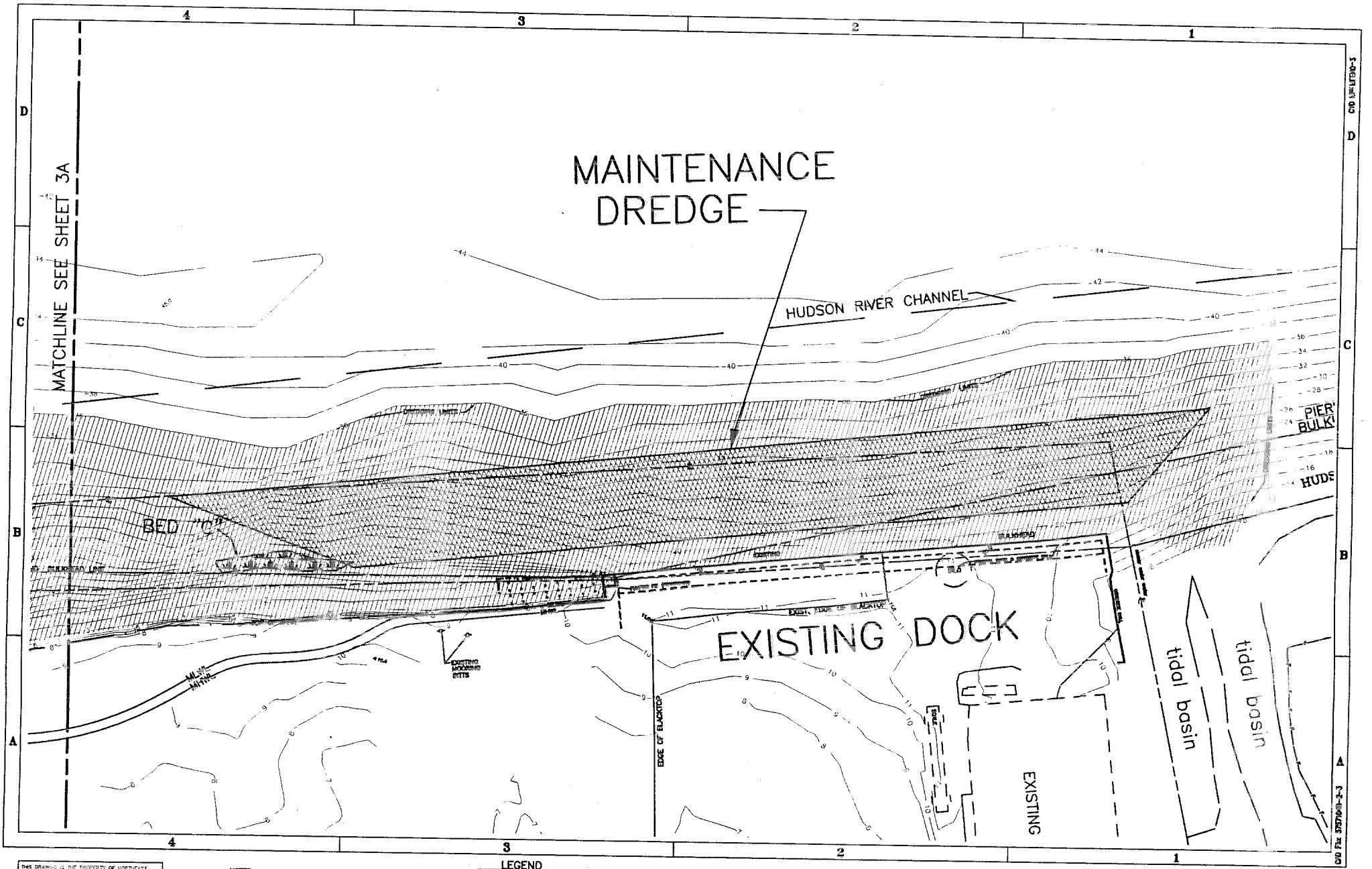
LEGEND
- PIERHEAD & BULKHEAD LINE
- MHWL — MEAN HIGH WATER LINE
- MLWL — MEAN LOW WATER LINE
- PROPERTY BOUNDARY LINE
- 22 — EXISTING DEPTH CONTOUR
- NEW DREDGE
- MAINTENANCE DREDGE
- SAV

PRELIMINARY

GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
DREDGING AREAS
ST. LAWRENCE CEMENT

Scale: 1"=	10/02/01	Rev: B	SHT 3A OF 10	Sheet: LTR

Permit Application No. 2000-00943-YN St. Lawrence Cement Company, LLC



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NOTES:
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HYDROGRAPHIC INFORMATION TAKEN FROM PLASS NOV. 9, 1999.

LEGEND

	PIERHEAD & BULKHEAD LINE
MHWL	MEAN HIGH WATER LINE
MLWL	MEAN LOW WATER LINE
	PROPERTY BOUNDARY LINE
22	EXISTING DEPTH CONTOUR
	NEW DREDGE
	MAINTENANCE DREDGE

PRELIMINARY

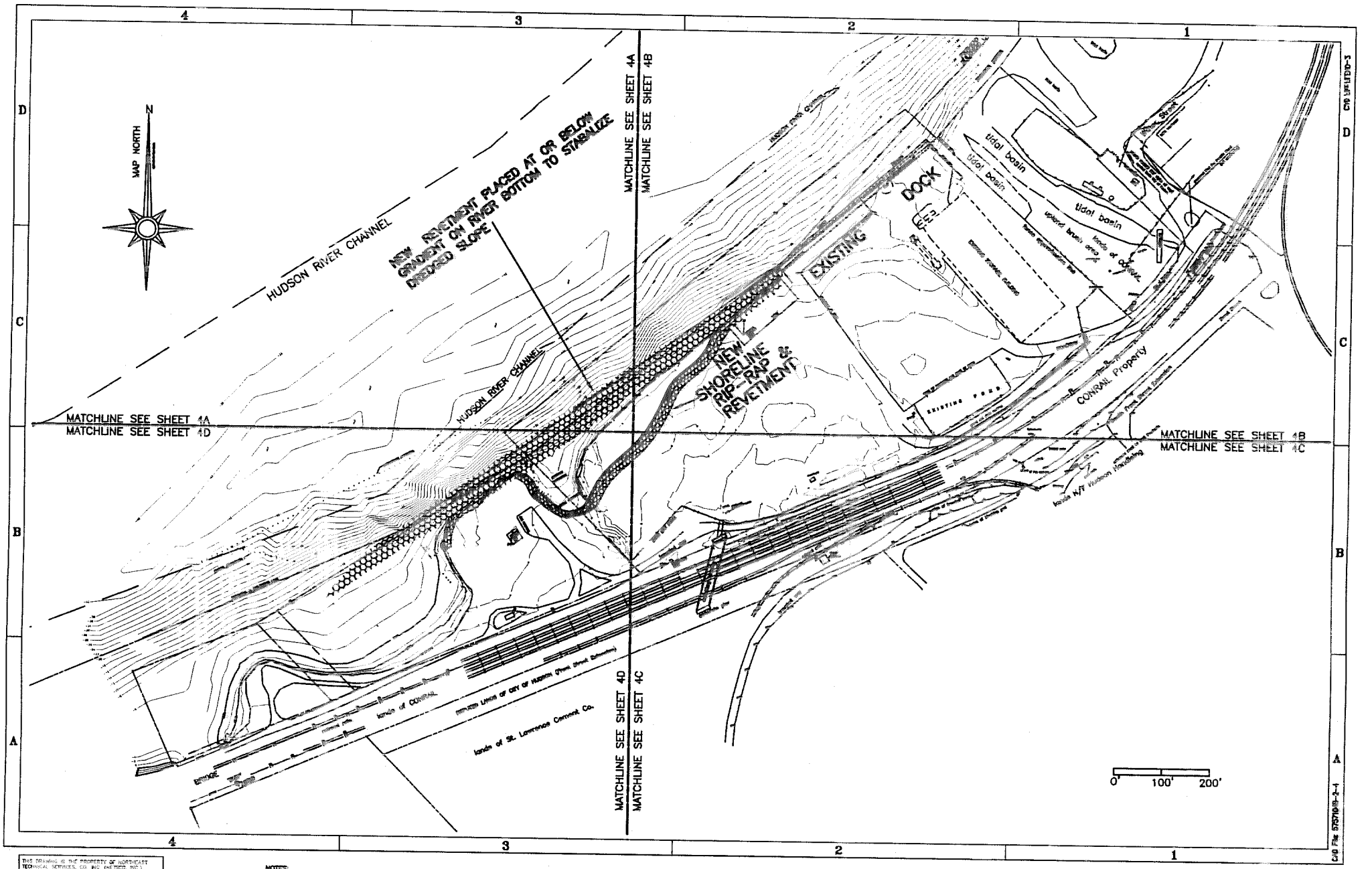
SAV

GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
DREDGING AREAS

ST. LAWRENCE CEMENT | Drawing No. 35757-S104B-2-3

Scale: 1"= | 10/02/01 | Rev. B | SHT 3B OF 10 | Size: LTR

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC



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NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. HILKEMEYER, PLS DEC. 1998, NOV. 1999 & JULY 2000.
HYDROGRAPHIC INFORMATION TAKEN FROM PLASS NOV. 9, 1999.

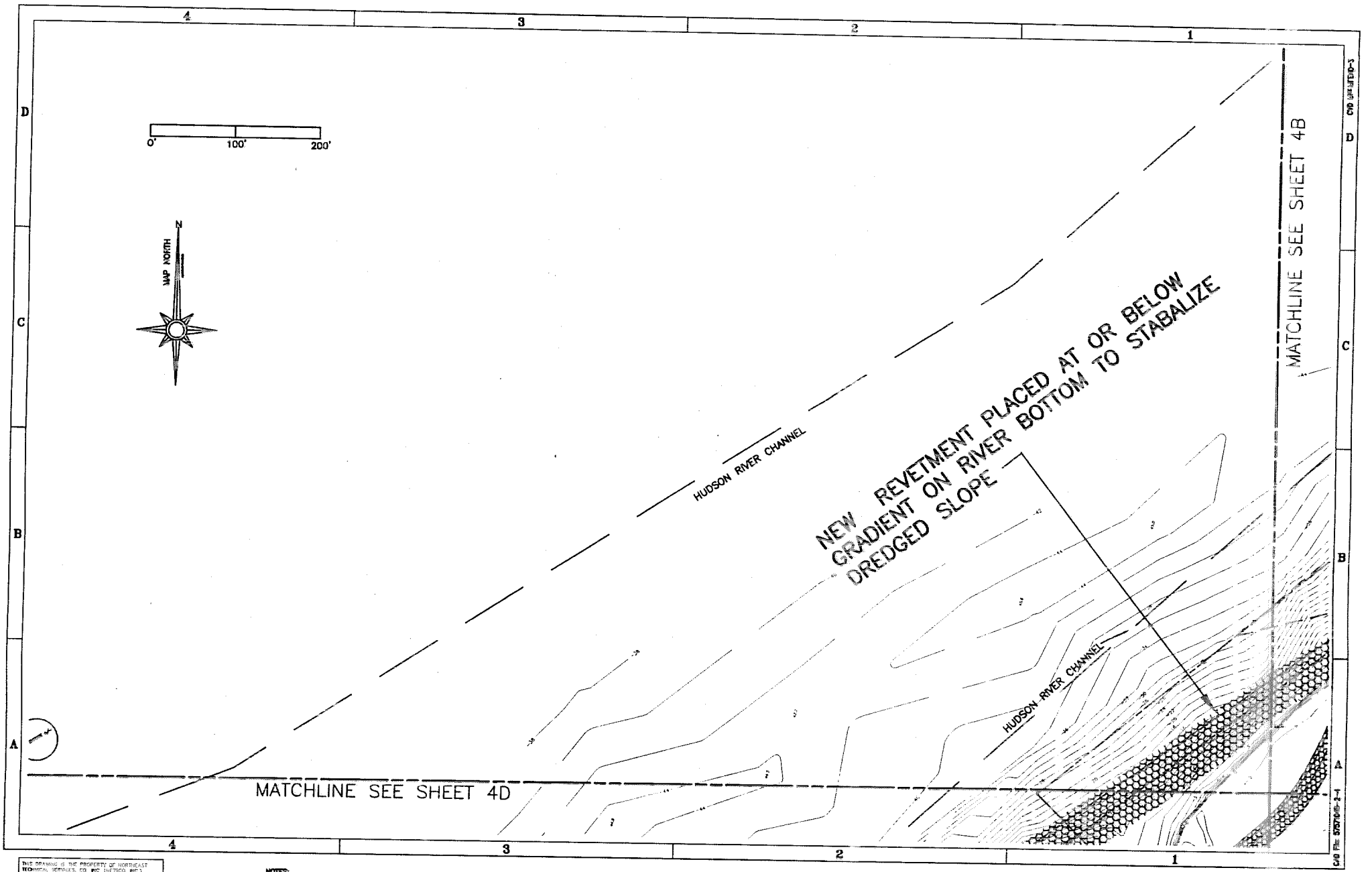
PRELIMINARY

LEGEND
- PIERHEAD & BULKHEAD LINE
- MHWL — MEAN HIGH WATER LINE
- MLWL — MEAN LOW WATER LINE
- PROPERTY BOUNDARY LINE
- 22 — EXISTING DEPTH CONTOUR
- STONE REVETMENT
- SHORELINE RIP-RAP & STONE REVETMENT

GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
REVETMENT & RIP-RAP AREAS
ST. LAWRENCE CEMENT

Scale: 1"=	10/02/01	Rev: B	SHT 4 OF 10	Size: LTR

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC



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NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. HILENBURG, PLS DEC. 1998, NOV. 1999 & JULY 2000.

HYDROGRAPHIC INFORMATION TAKEN FROM PLASS NOV. 9, 1999.

PRELIMINARY

LEGEND

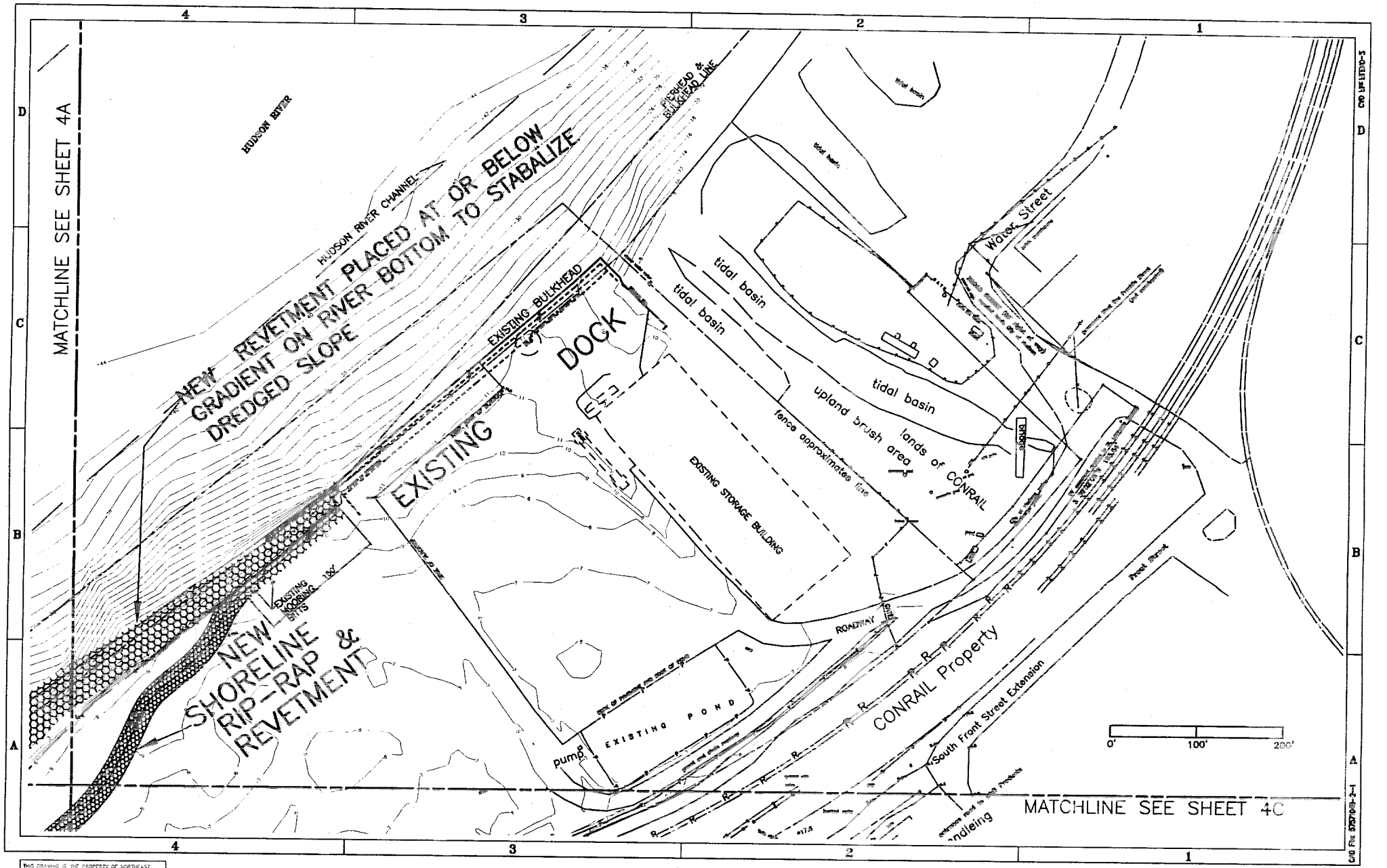
	PIERHEAD & BULKHEAD LINE
MHWL	MEAN HIGH WATER LINE
MLWL	MEAN LOW WATER LINE
PL	PROPERTY BOUNDARY LINE
22	EXISTING DEPTH CONTOUR
	STONE REVETMENT
	SHORELINE RIP-RAP & STONE REVETMENT

GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
REVETMENT & RIP-RAP AREAS

ST. LAWRENCE CEMENT | Drawing No. 35757-S1049-2-4

Scale: 1"=	10/02/01	Rev. 0	SHT 4A OF 10	Size LTR

Permit Application No. 2000-00943-UN St. Lawrence Cement Company, LLC



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NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. PILLENBURG, PLS DEC. 1998, NOV. 1999 & JULY 2000.
HYDROGRAPHIC INFORMATION TAKEN FROM FLASS NOV. 9, 1999.

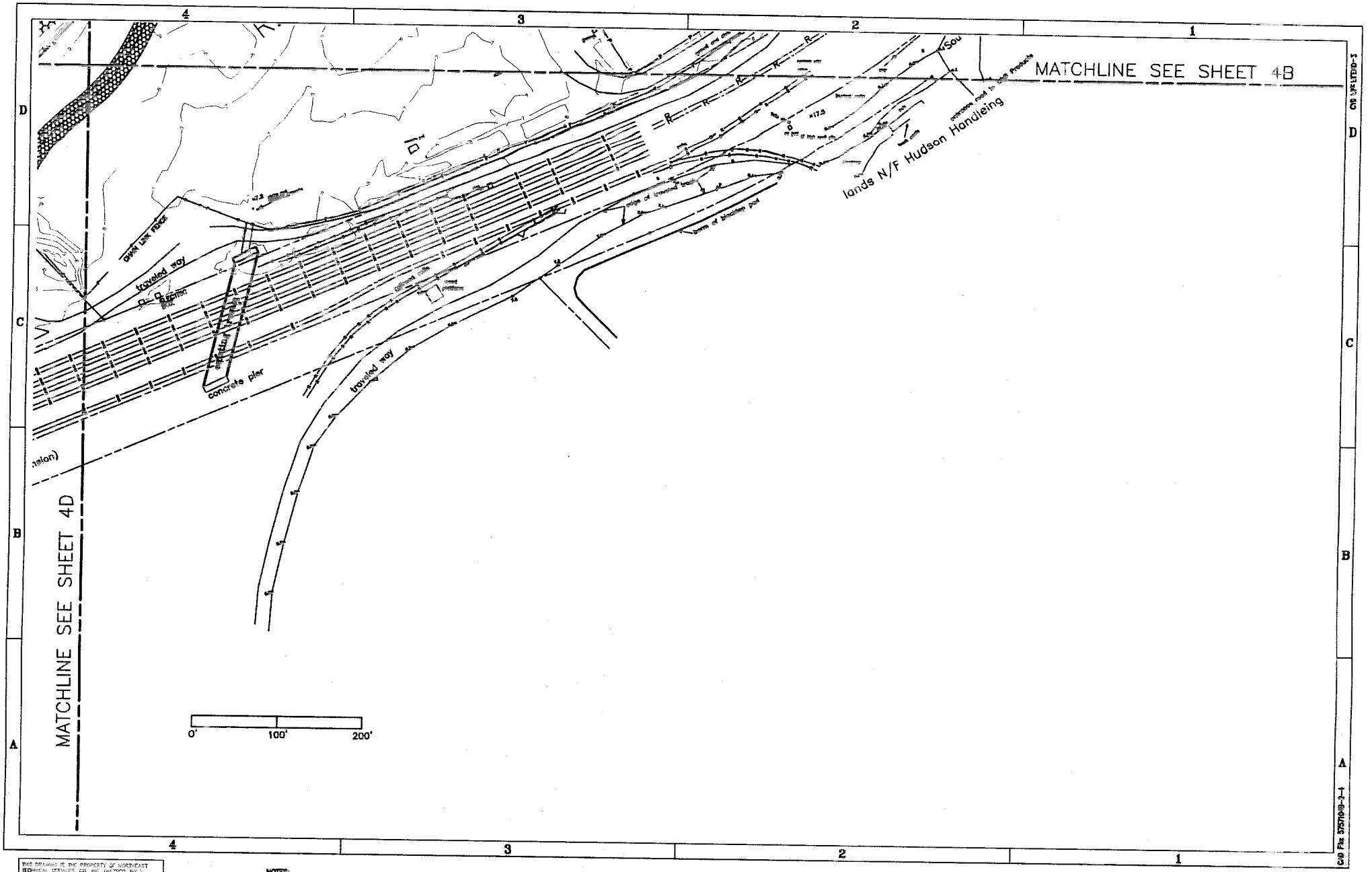
PRELIMINARY

LEGEND
- PIERHEAD & BULKHEAD LINE
- MHWL — MEAN HIGH WATER LINE
- MLWL — MEAN LOW WATER LINE
- PL — PROPERTY BOUNDARY LINE
- 22 — EXISTING DEPTH CONTOUR
- STONE REVETMENT
- SHORELINE RIP-RAP & STONE REVETMENT

GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
REVETMENT & RIP-RAP AREAS
ST. LAWRENCE CEMENT

Scale: 1"=	10/02/01	Rev: B	SHT 48 OF 10	Size: LTR

Permit Application No. 2000-00943 St. Lawrence Cement Company, LLC



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NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. RHEINSTRUM, PLS DEC. 1999, NOV. 1999 & JULY 2000.
HYDROGRAPHIC INFORMATION TAKEN FROM PLASS NOV. 9, 1999.

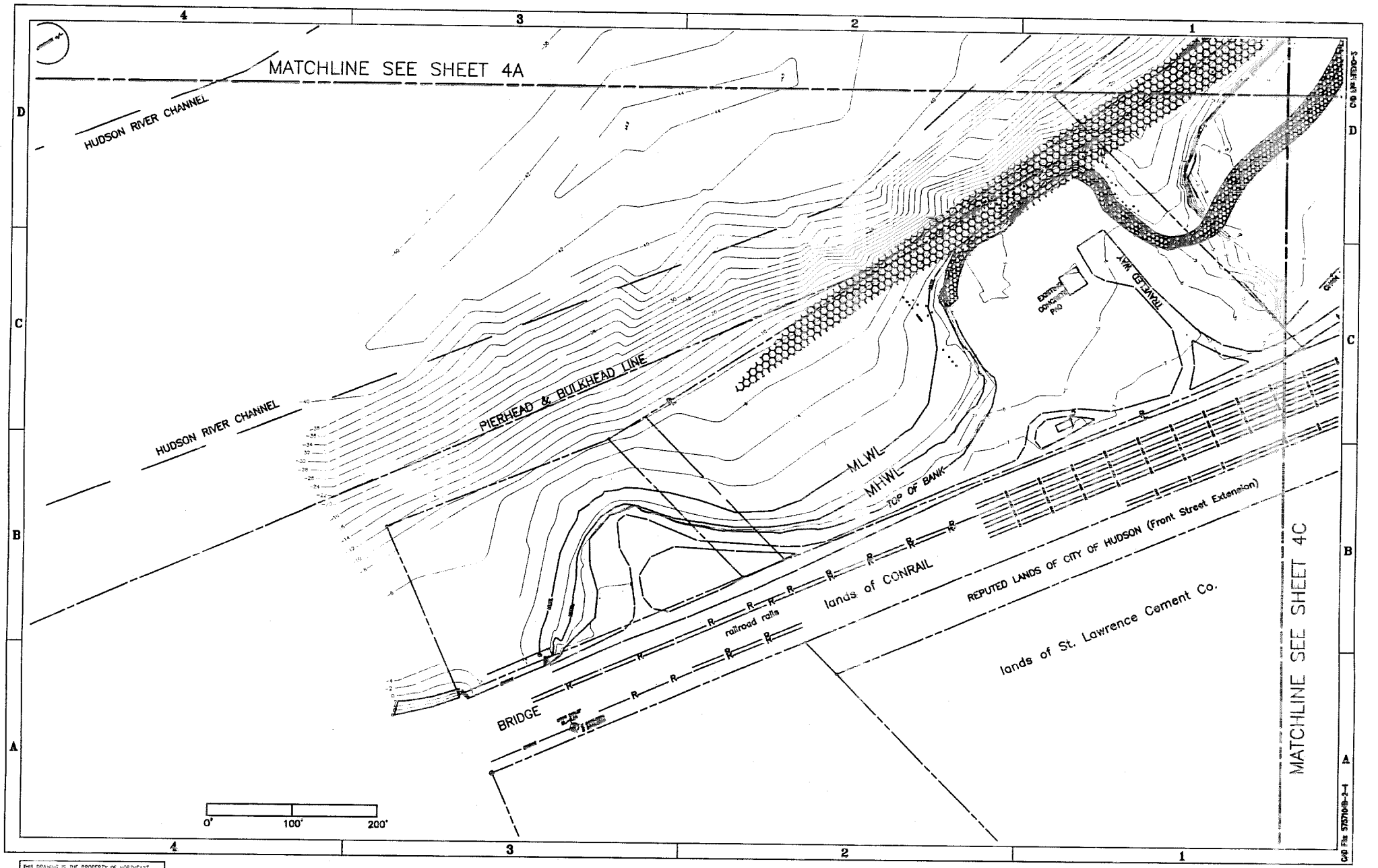
PRELIMINARY

LEGEND
- PIERHEAD & BULKHEAD LINE
- MHWL — MEAN HIGH WATER LINE
- MLWL — MEAN LOW WATER LINE
- R — PROPERTY BOUNDARY LINE
- 22 — EXISTING DEPTH CONTOUR
- STONE REVETMENT
- SHORELINE RIP-RAP & STONE REVETMENT

GREENPORT DOCK - HUDSON, NY
SITE PLAN - OPTION 4B
REVETMENT & RIP-RAP AREAS
ST. LAWRENCE CEMENT

Scale 1"=	10/02/01	Rev. 0	SHT 4C OF 10	Size LTR

Permit Application No. 2000-00943 St. Lawrence Cement Company, LLC



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NOTES:
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HYDROGRAPHIC INFORMATION TAKEN FROM PLASS NOV. 9, 1999.

PRELIMINARY

LEGEND

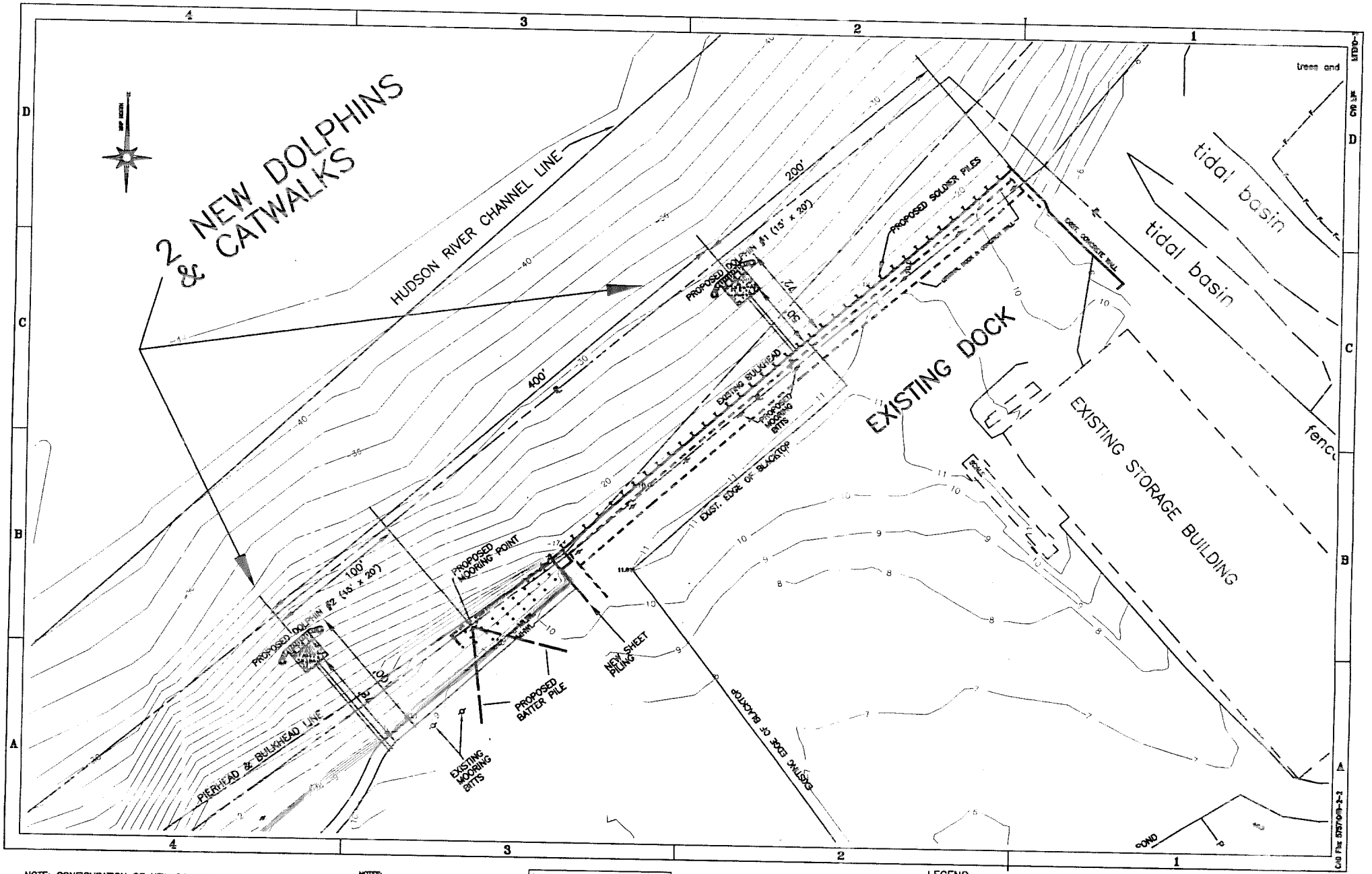
——— ———	PIERHEAD & BULKHEAD LINE
——MHWL——	MEAN HIGH WATER LINE
——MLWL——	MEAN LOW WATER LINE
——R——	PROPERTY BOUNDARY LINE
— —22— —	EXISTING DEPTH CONTOUR
	STONE REVETMENT
	SHORELINE RIP-RAP & STONE REVETMENT

GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
REVETMENT & RIP-RAP AREAS

ST. LAWRENCE CEMENT | Drawing No. J5757-S104B-2-4

Scale: 1"=	10/02/01	Rev. 0	SHT 40 OF 40	Size: LTR

Permit Application No. 2000-00943-YN St. Lawrence Cement Company, LLC



NOTE: CONFIGURATION OF NEW CONCRETE BARGE DOCK REFLECTS 15' SHIFT TOWARD RIVER TO REDUCE DREDGING (AUG., 2001)

NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. RILENBURG, PLS DEC. 1998, NOV. 1999 & JULY 2000.
HYDROGRAPHIC INFORMATION TAKEN FROM PLASS NOV. 9, 1999.

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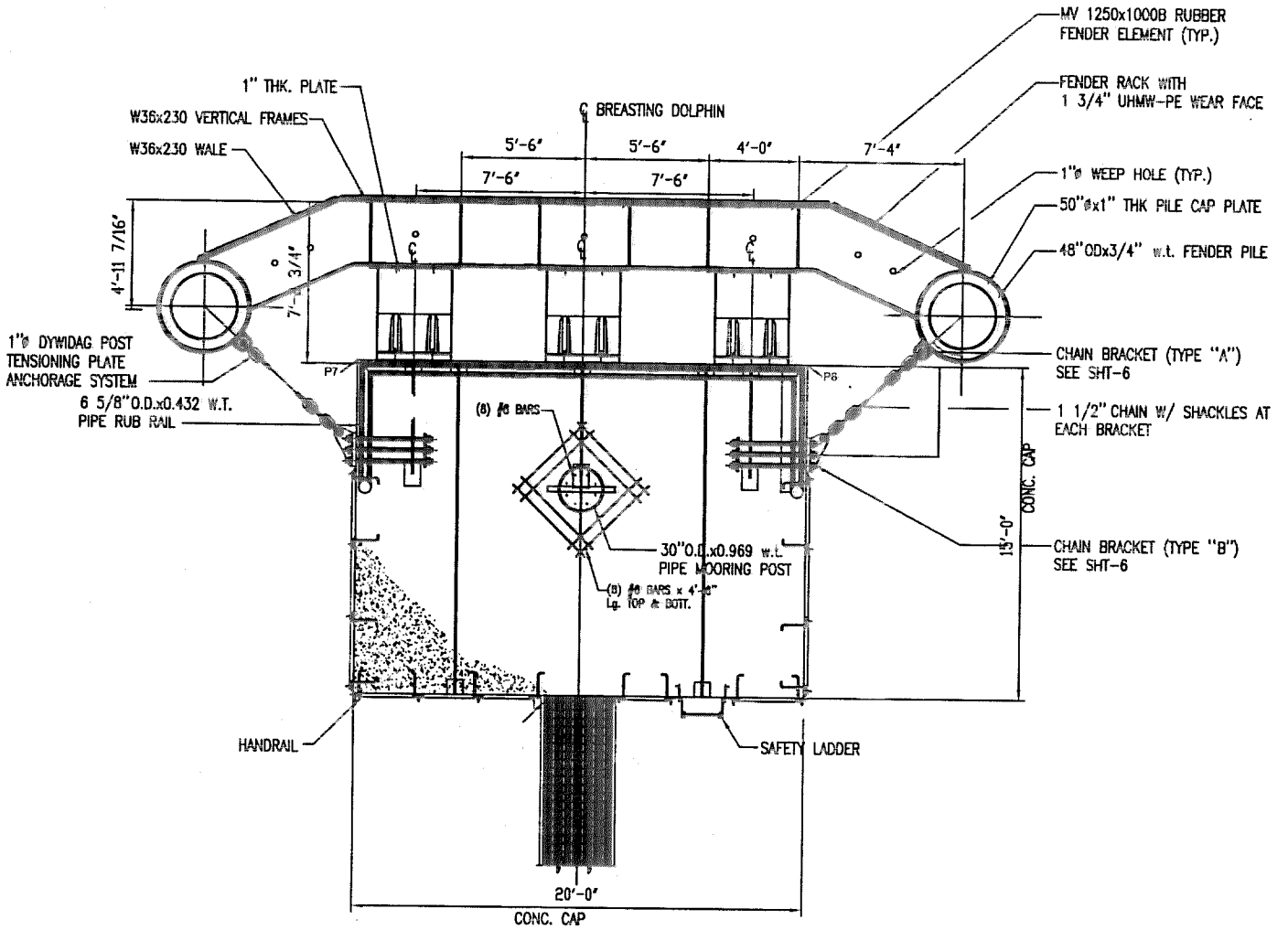
PRELIMINARY

LEGEND
- PIERHEAD & BULKHEAD LINE
- MHWL — MEAN HIGH WATER LINE
- MLWL — MEAN LOW WATER LINE
- PL — PROPERTY BOUNDARY LINE
- 22 — EXISTING DEPTH CONTOUR

GREENPORT DOCK — HUDSON, NY
SITE PLAN — OPTION 4B
DOLPHIN & BARGE-DOCK
ST. LAWRENCE CEMENT
Drawing No. 757-S104B-2-2
Scale 1"= | 10/02/01 | Rev. # | Sht. # OF 10 | Rev. LTR

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC



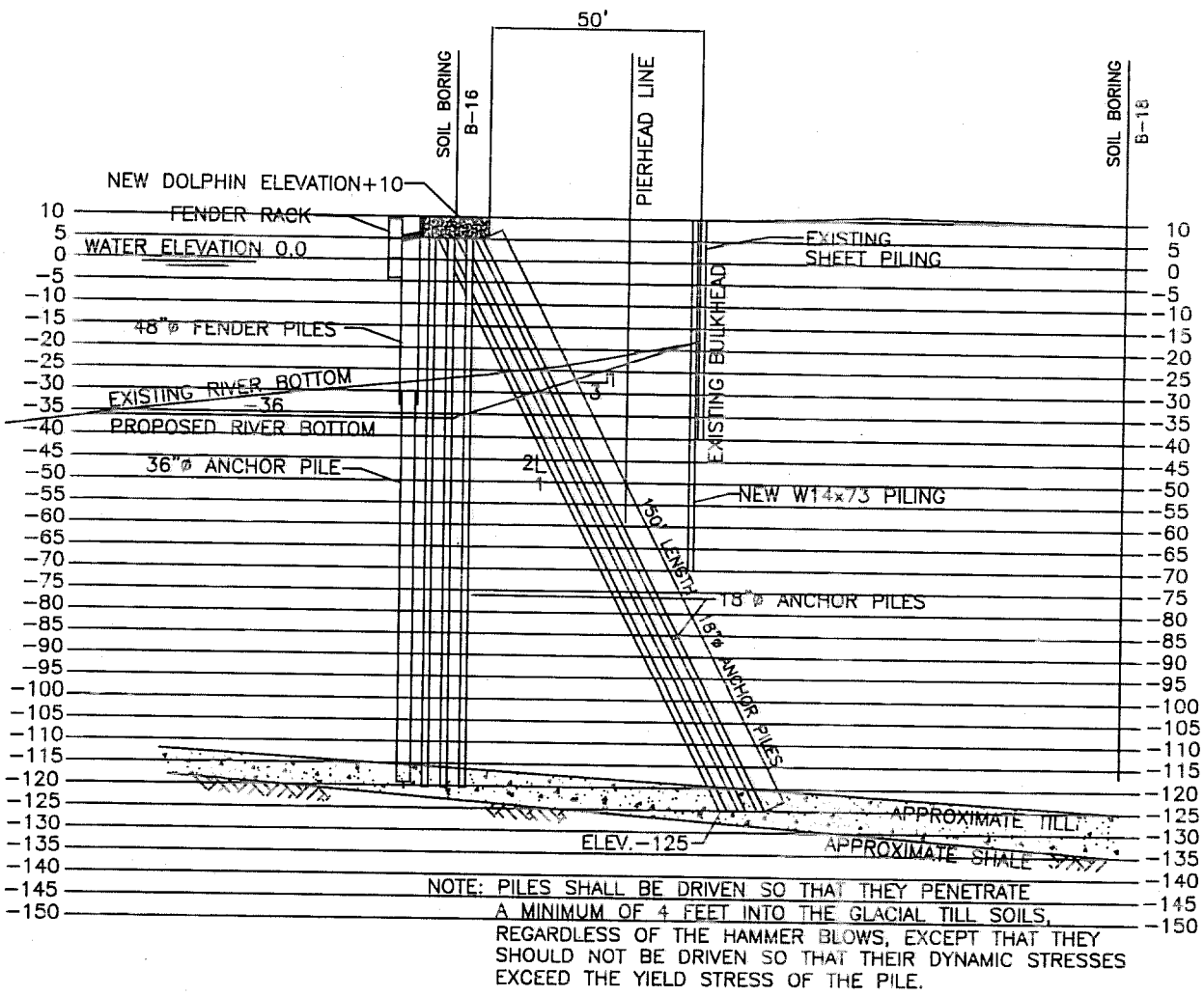
DECK PLAN

PRELIMINARY

GREENPORT DOCK, HUDSON, NY.
DOLPHIN CONSTRUCTION
PLAN AND DETAILS

ST LAWRENCE CEMENT | 05757-S141

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC



NOTE: PILES SHALL BE DRIVEN SO THAT THEY PENETRATE A MINIMUM OF 4 FEET INTO THE GLACIAL TILL SOILS, REGARDLESS OF THE HAMMER BLOWS, EXCEPT THAT THEY SHOULD NOT BE DRIVEN SO THAT THEIR DYNAMIC STRESSES EXCEED THE YIELD STRESS OF THE PILE.

PRELIMINARY

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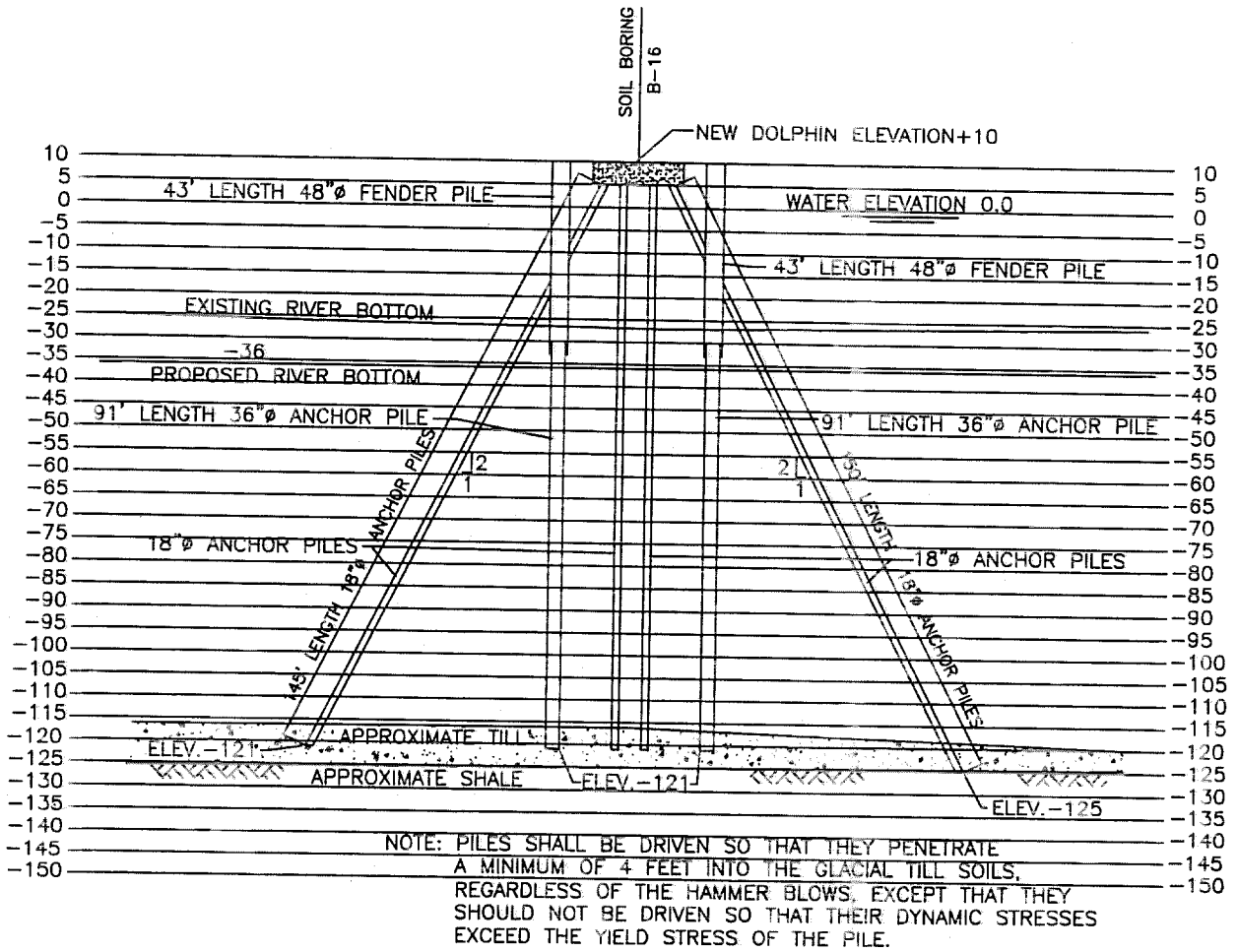
SECTION– DOLPHIN #1
(LOOKING NORTHEAST)

GREENPORT DOCK–HUDSON, NY
NEW DOLPHIN #1 CONSTRUCTION DETAILS
ST LAWRENCE CEMENT | J5757-S141
Scale: 1" | Rev | Sht 1 of 1 | Stem

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC



NOTE: PILES SHALL BE DRIVEN SO THAT THEY PENETRATE A MINIMUM OF 4 FEET INTO THE GLACIAL TILL SOILS, REGARDLESS OF THE HAMMER BLOWS, EXCEPT THAT THEY SHOULD NOT BE DRIVEN SO THAT THEIR DYNAMIC STRESSES EXCEED THE YIELD STRESS OF THE PILE.

SECTION– DOLPHIN #1
(LOOKING SOUTHEAST)

PRELIMINARY

GREENPORT DOCK–HUDSON, NY
NEW DOLPHIN #1 CONSTRUCTION DETAILS

ST LAWRENCE CEMENT | J5757–S141

Scale: 1" | Sht 1 of 1

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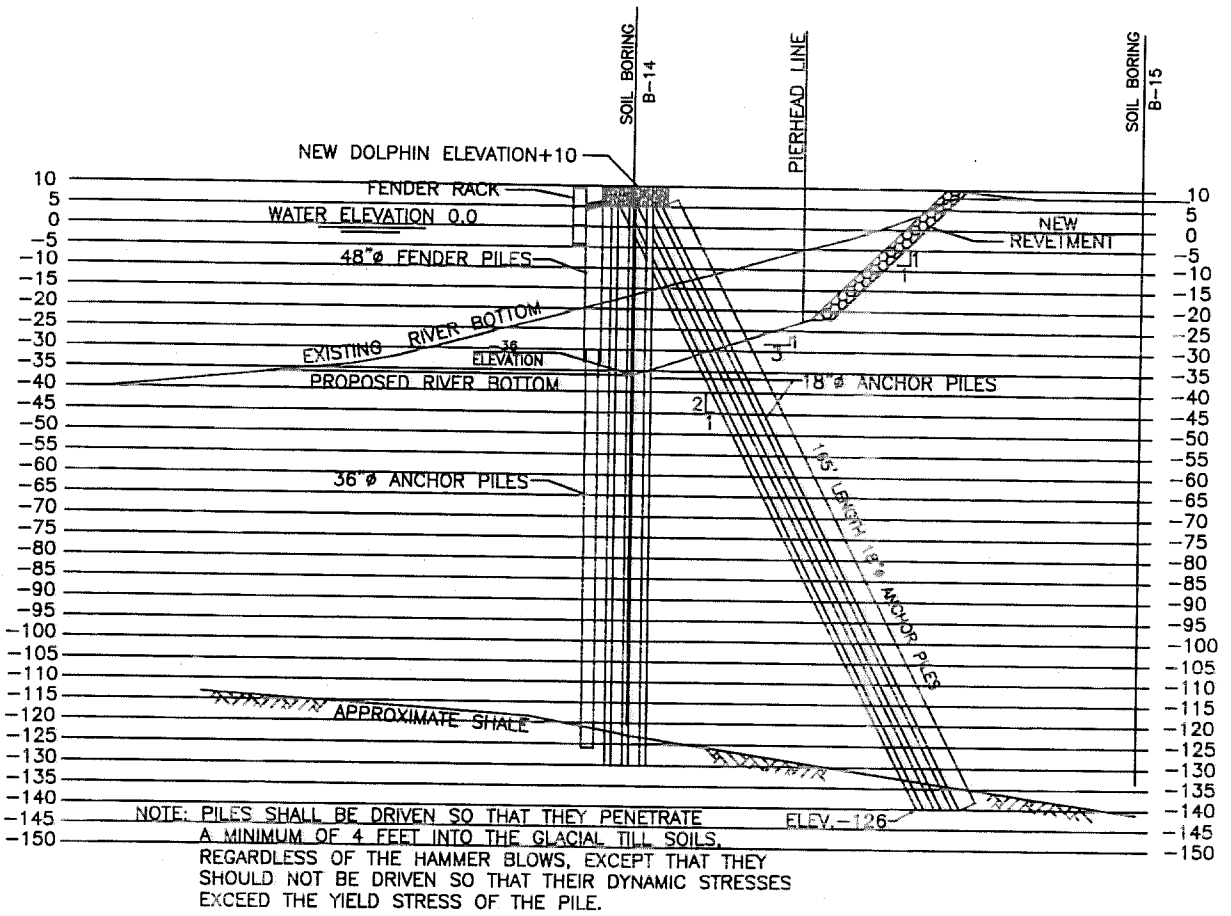
Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC



NOTE: PILES SHALL BE DRIVEN SO THAT THEY PENETRATE A MINIMUM OF 4 FEET INTO THE GLACIAL TILL SOILS, REGARDLESS OF THE HAMMER BLOWS, EXCEPT THAT THEY SHOULD NOT BE DRIVEN SO THAT THEIR DYNAMIC STRESSES EXCEED THE YIELD STRESS OF THE PILE.

SECTION – DOLPHIN #2
(LOOKING NORTHEAST)

PRELIMINARY

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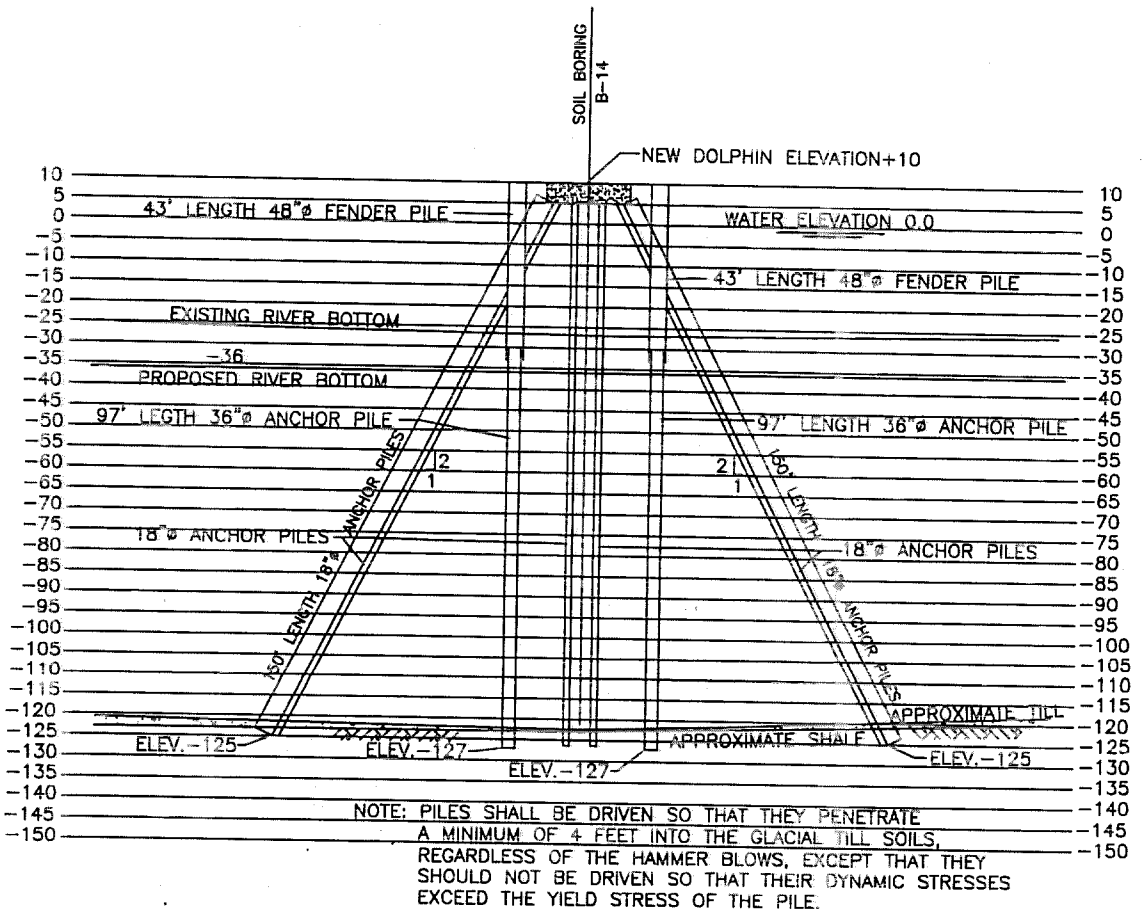
GREENPORT DOCK–HUDSON, NY
NEW DOLPHIN #2 CONSTRUCTION DETAILS
ST LAWRENCE CEMENT | J5757-S141
Scale 1" | Sht 1 of 1

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC



NOTE: PILES SHALL BE DRIVEN SO THAT THEY PENETRATE A MINIMUM OF 4 FEET INTO THE GLACIAL TILL SOILS, REGARDLESS OF THE HAMMER BLOWS, EXCEPT THAT THEY SHOULD NOT BE DRIVEN SO THAT THEIR DYNAMIC STRESSES EXCEED THE YIELD STRESS OF THE PILE.

SECTION – DOLPHIN #2
(LOOKING SOUTHEAST)

PRELIMINARY

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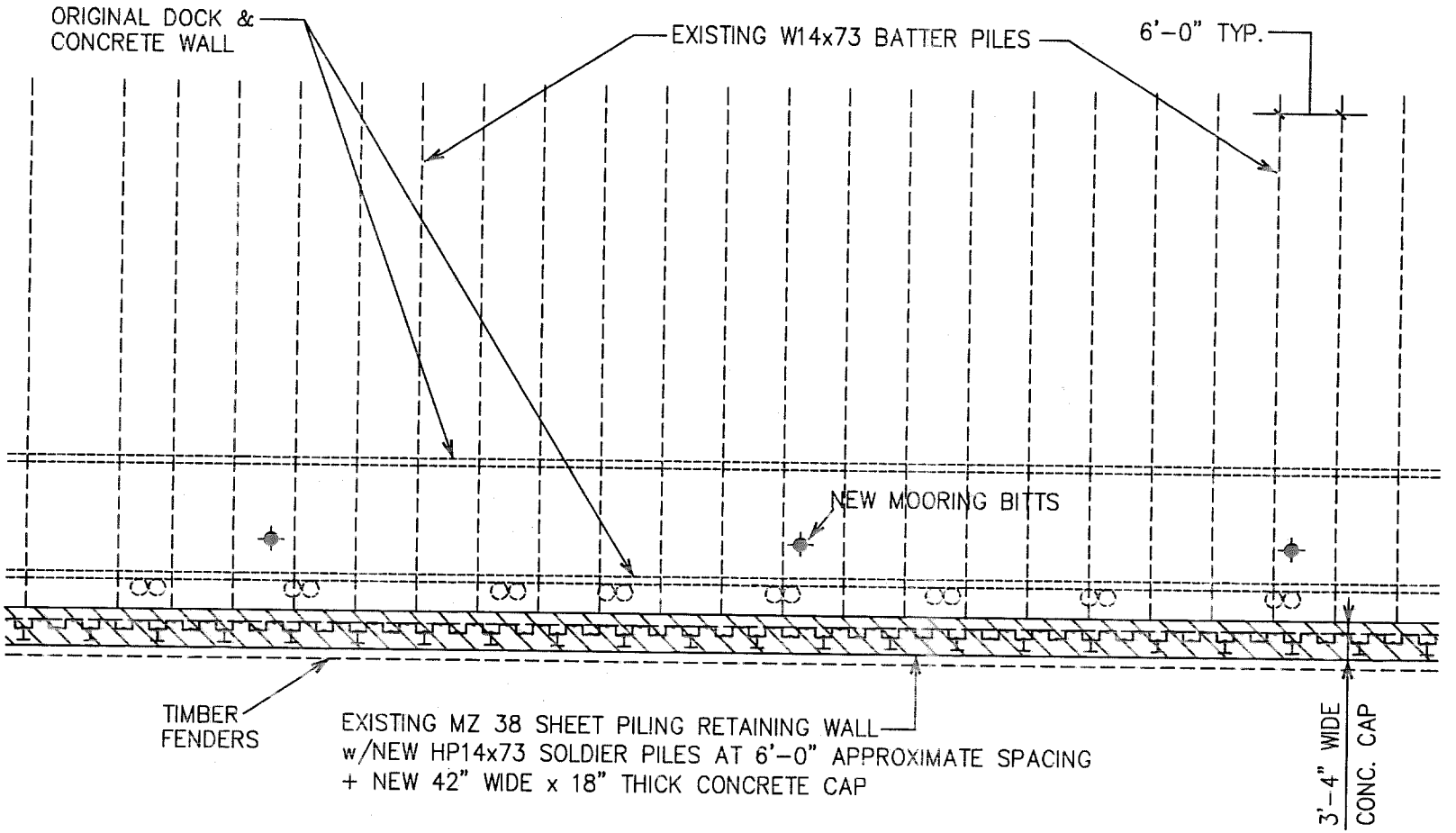
GREENPORT DOCK-HUDSON, NY
NEW DOLPHIN #2 CONSTRUCTION DETAILS
ST LAWRENCE CEMENT | J5757-S141
Scale: 1" | Date | Sht. 1 of 1 | Sheet

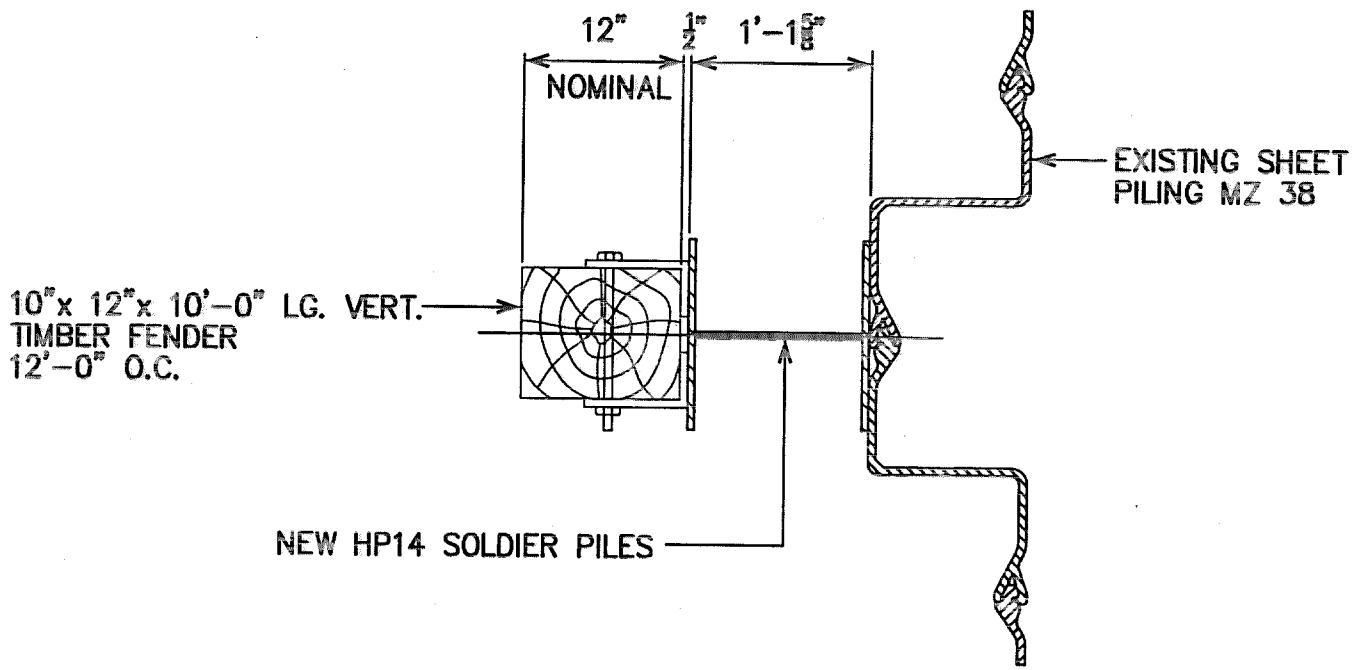


EXISTING DOCK MODIFICATIONS – PLAN
TYPICAL SECTION

PRELIMINARY

GREENPORT DOCK – HUDSON, NY
EXISTING DOCK REINFORCEMENT PLAN
ST LAWRENCE CEMENT | 05757-S151A
Scale | Rev | Sht 1 of 1 | Size

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC

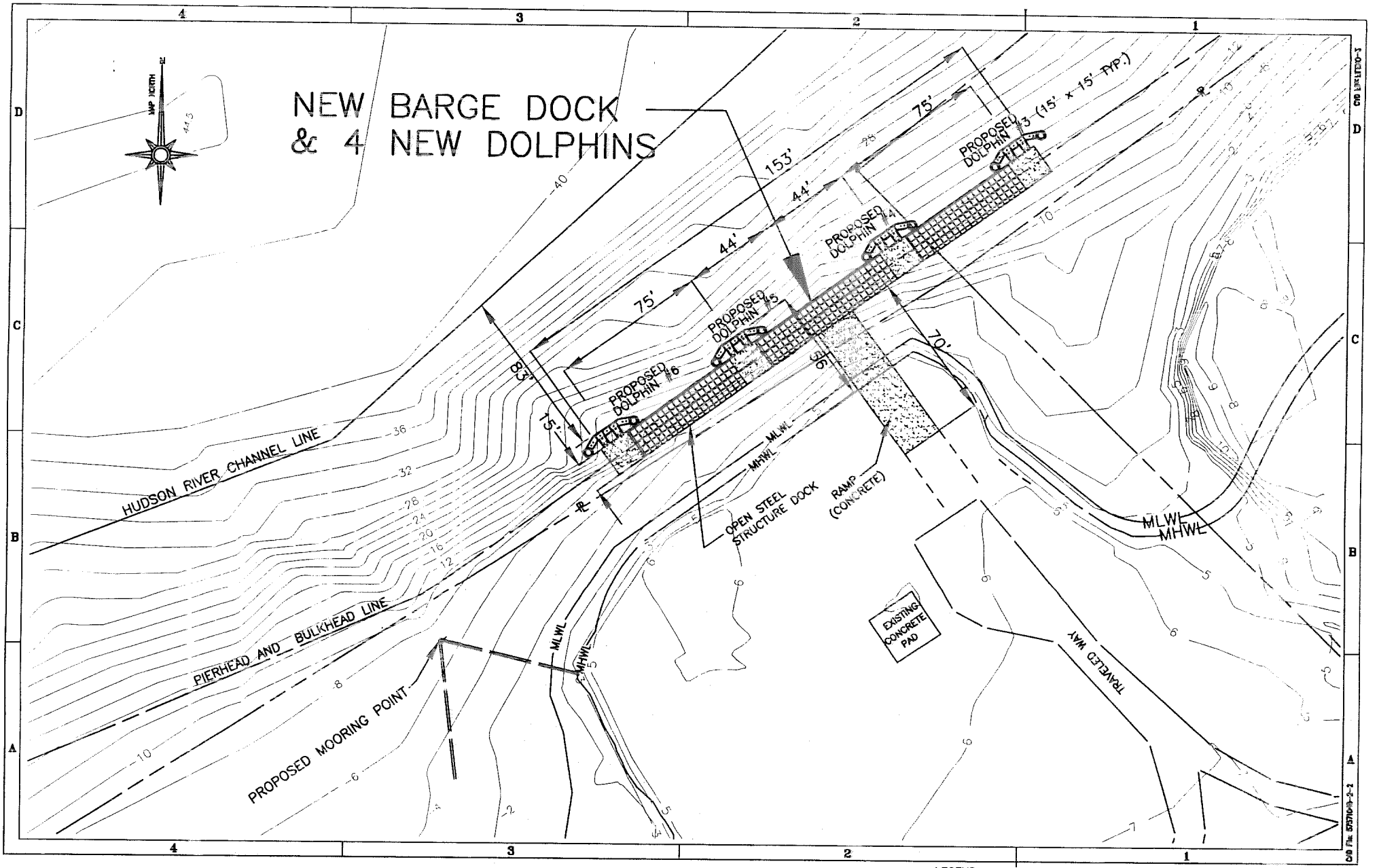


TYPICAL SECTION

PRELIMINARY

GREENPORT DOCK–HUDSON, NY
EXISTING DOCK REINFORCEMENT
SECTIONAL DETAILS
ST LAWRENCE CEMENT | 15757–S151B

Permit Application No. 2000-00943-YN St. Lawrence Cement Company, LLC



NOTE: CONFIGURATION OF NEW CONCRETE BARGE DOCK REFLECTS 5' SHIFT TOWARD RIVER TO REDUCE DREDGING (AUG., 2001)

NOTES:
TOPOGRAPHIC & PROPERTY BOUNDARY INFORMATION FROM ROBERT J. MILLENBURG, PLS DEC. 1998, NOV. 1999 & JULY 2000.
HYDROGRAPHIC INFORMATION TAKEN FROM PLANS NOV. 9, 1999.

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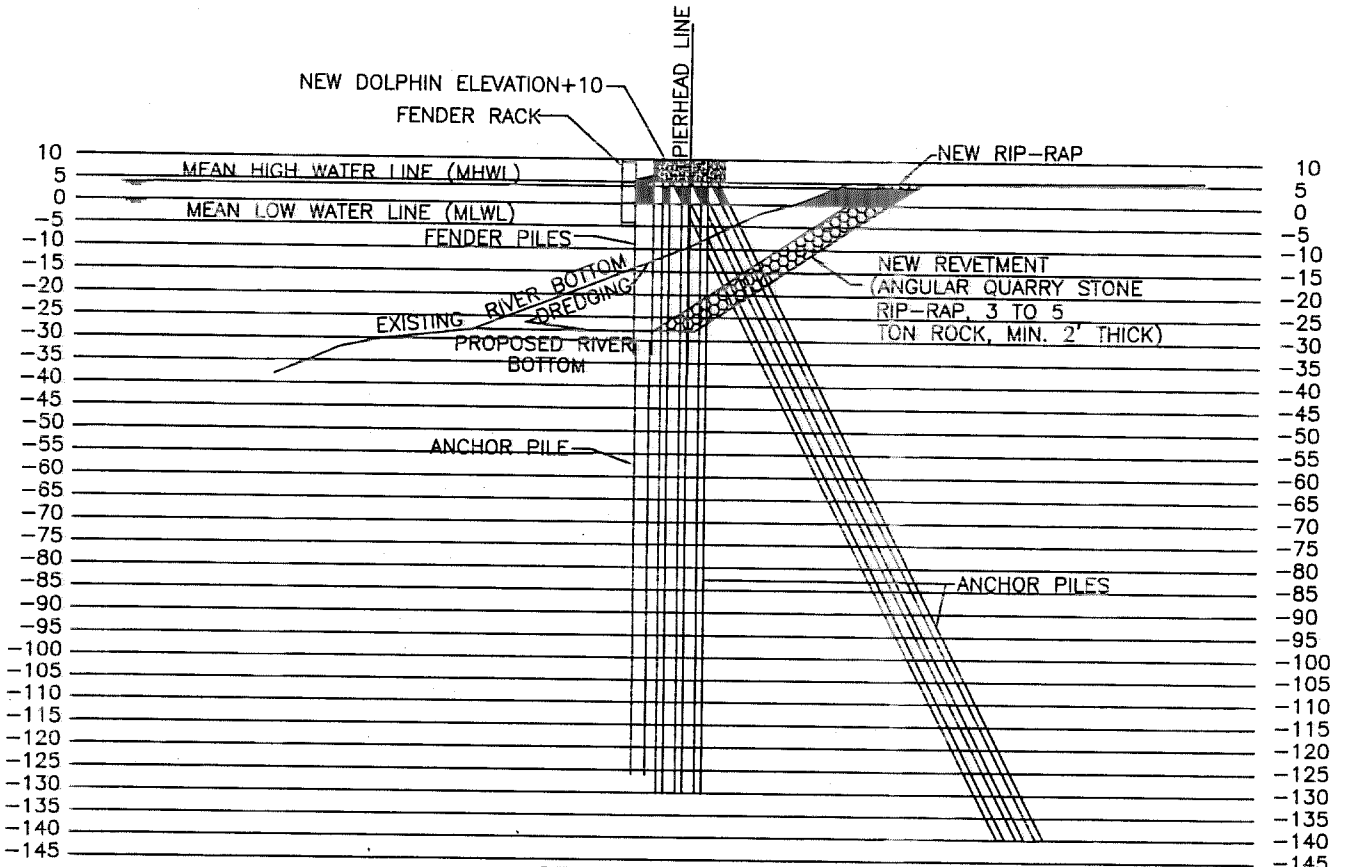
PRELIMINARY

LEGEND
- PIERHEAD & BULKHEAD LINE
- MHWL — MEAN HIGH WATER LINE
- MLWL — MEAN LOW WATER LINE
- PL — PROPERTY BOUNDARY LINE
- 22 — EXISTING DEPTH CONTOUR

GREENPORT DOCK – HUDSON, NY
SITE PLAN – OPTION 4B
DOLPHIN & BARGE-DOCK
ST. LAWRENCE CEMENT | 757-5104B-2-2
Scale: 1"= | 10/02/01 | Rev: 2 | SHT 3 OF 10 | Size: LTR

Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLC

DOLPHIN #5



SECTION EXISTING & PROPOSED
(LOOKING NORTHEAST)

PRELIMINARY

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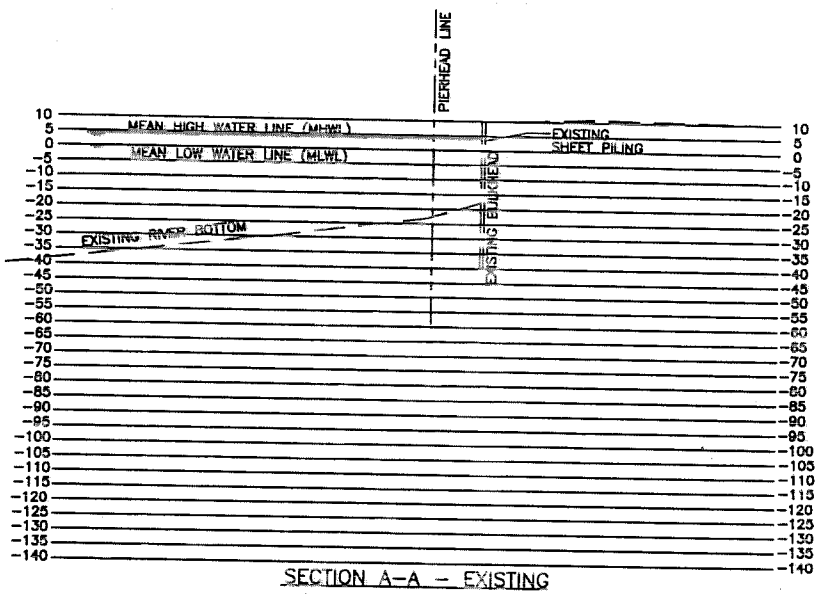
GREENPORT DOCK-HUDSON, NY
DOLPHIN #5 SECTION

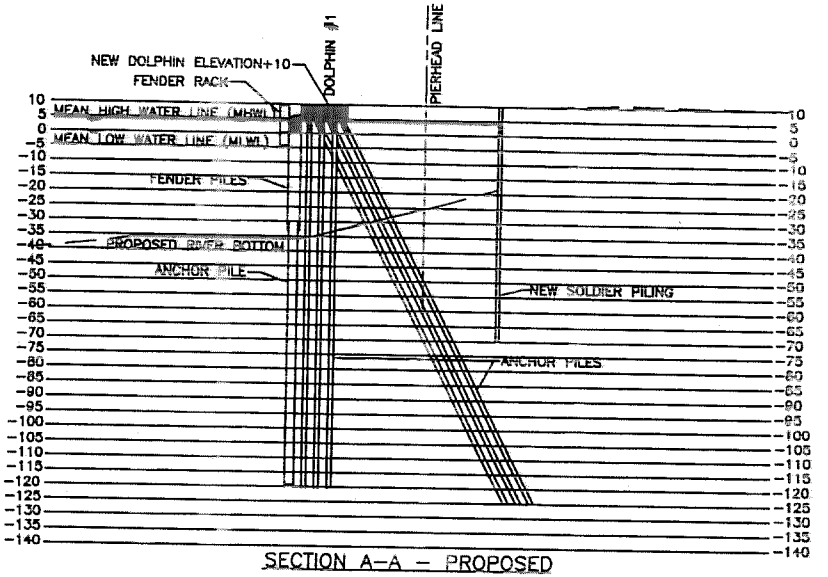
ST LAWRENCE CEMENT

Scale	10/02/01	Rev.	Sht 1 of 1	Drawing No. 757-S1048-2

Permit Application No. 2000-00943-YN St. Lawrence Cement Company, LLC



SECTION A–A – EXISTING
(LOOKING NORTHEAST)



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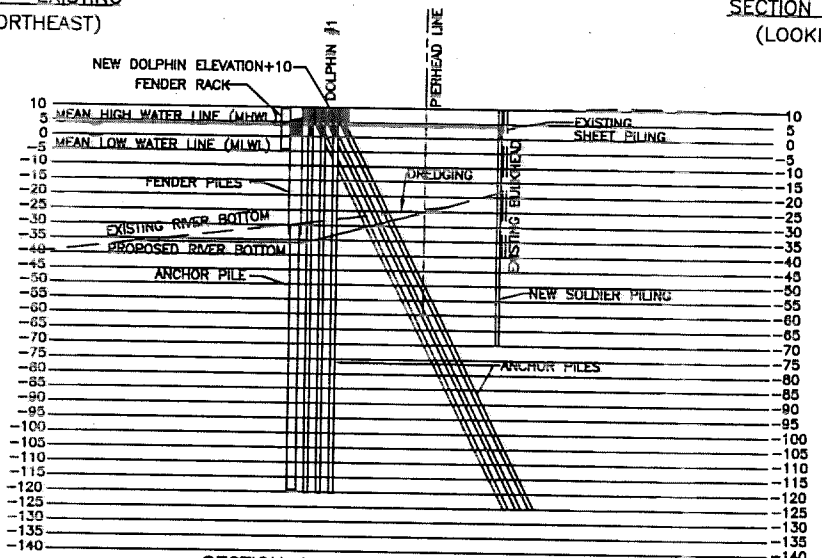

SECTION A–A – EXISTING & PROPOSED
(LOOKING NORTHEAST)

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PRELIMINARY

GREENPORT DOCK–HUDSON, NY
SITE PLAN – OPTION 4B
SECTION A–A

ST LAWRENCE CEMENT

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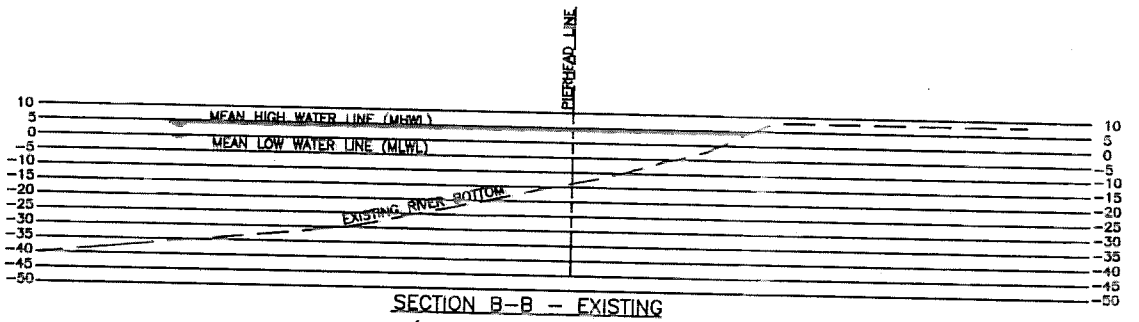

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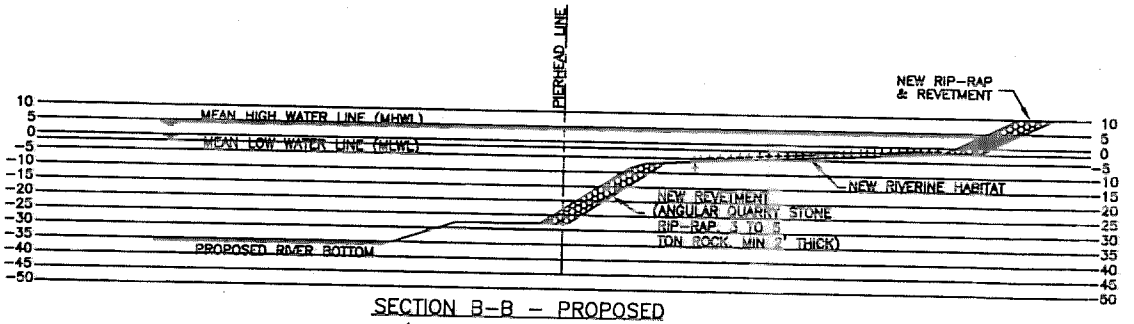

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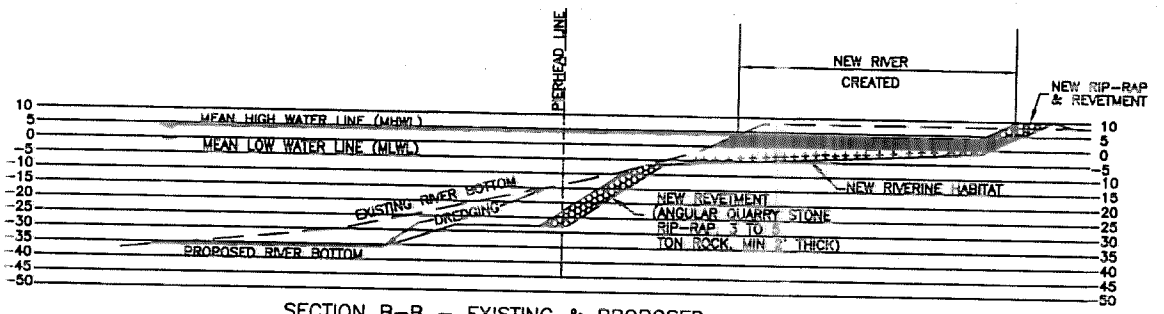

SECTION B–B – EXISTING & PROPOSED
(LOOKING NORTHEAST)

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PRELIMINARY

GREENPORT DOCK–HUDSON, NY
SITE PLAN – OPTION 4B
SECTION B–B

ST LAWRENCE CEMENT

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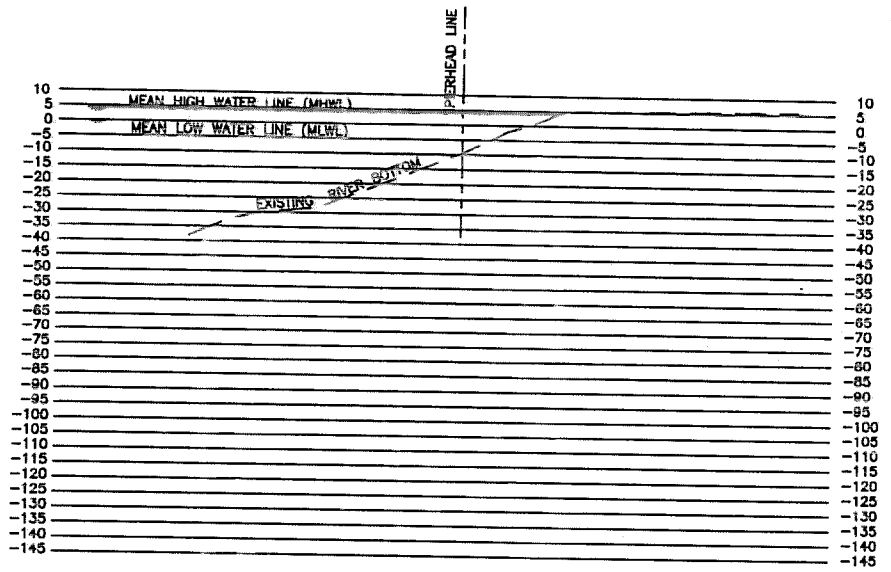

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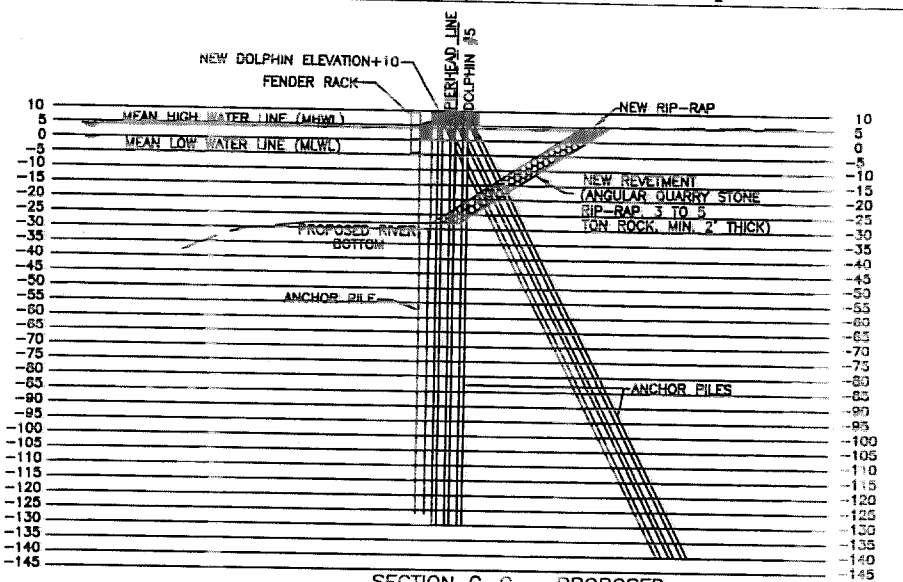

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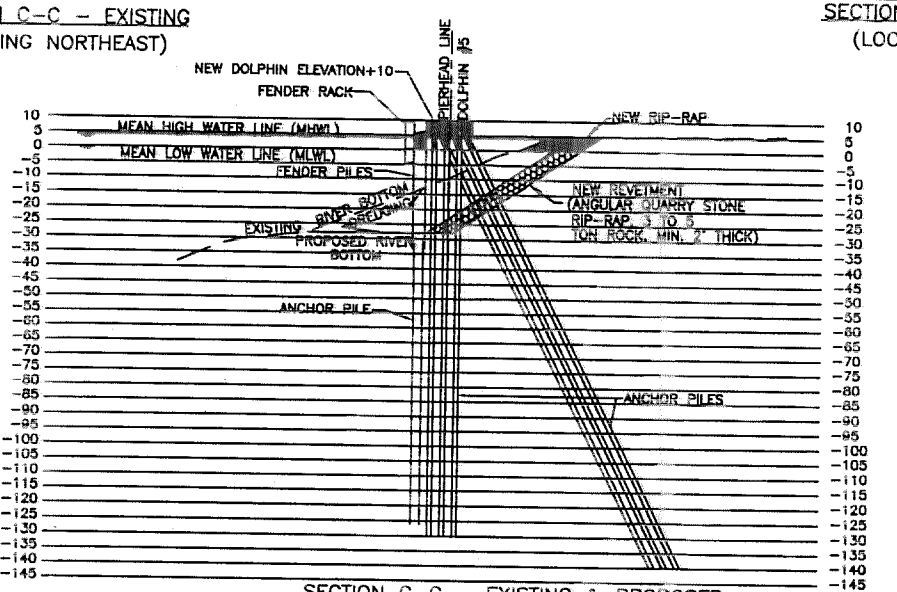

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PRELIMINARY

GREENPORT DOCK-HUDSON, NY
SITE PLAN - OPTION 4B
SECTION C-C

ST LAWRENCE CEMENT | J5757-S104B-2-9

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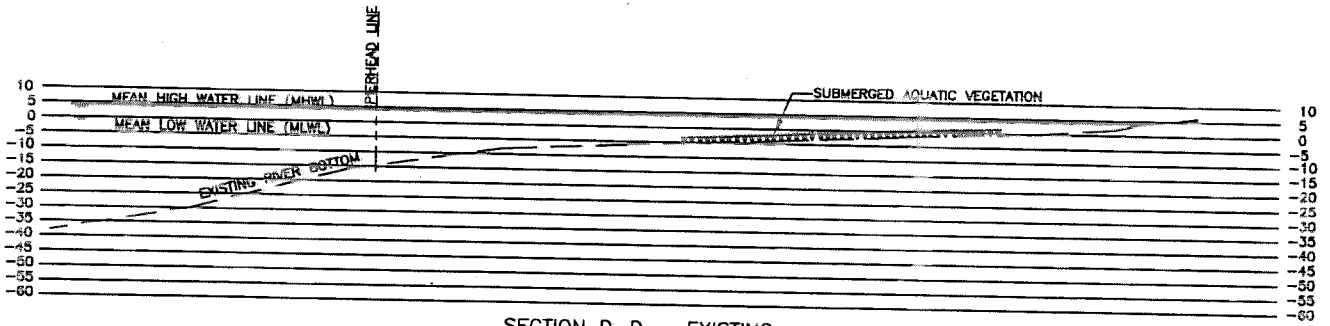

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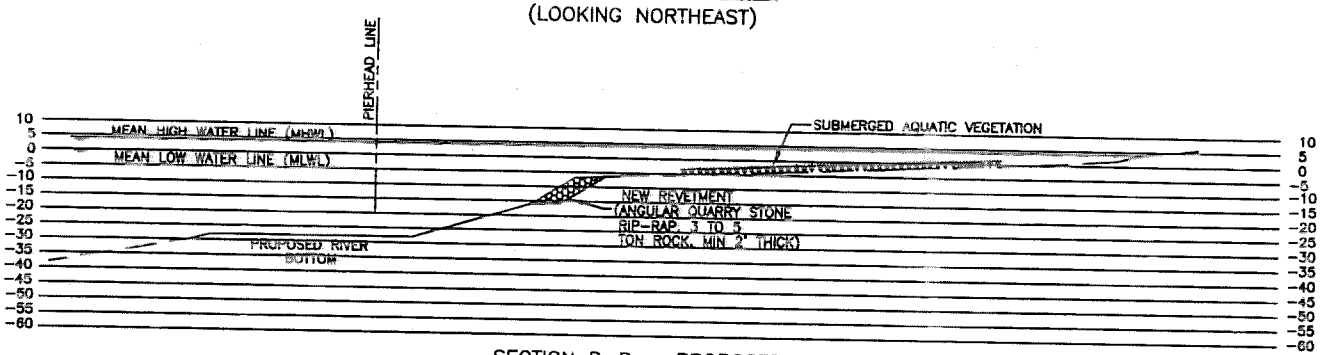

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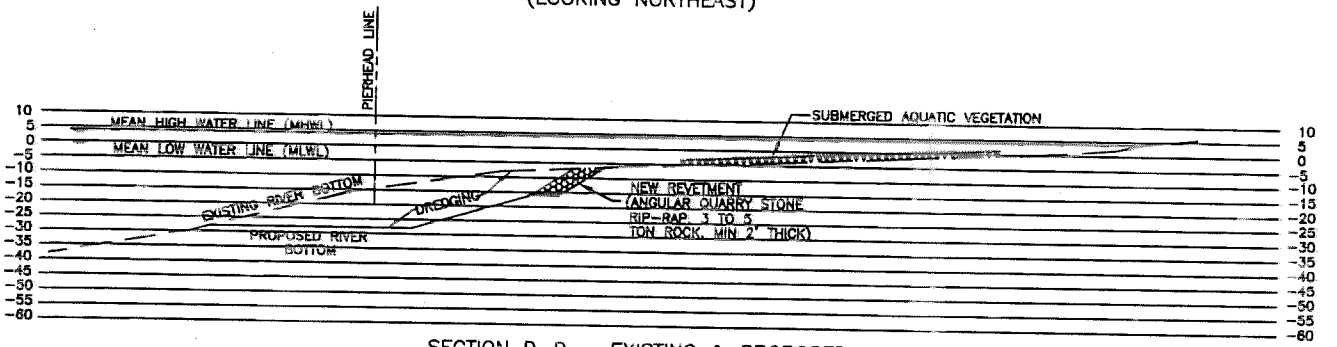

SECTION D–D – EXISTING & PROPOSED
(LOOKING NORTHEAST)

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PRELIMINARY

GREENPORT DOCK–HUDSON, NY
SITE PLAN – OPTION 4B
SECTION D–D

ST LAWRENCE CEMENT | Drawing No. 757-S1048-2-10

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St. Lawrence Cement Company, LLC

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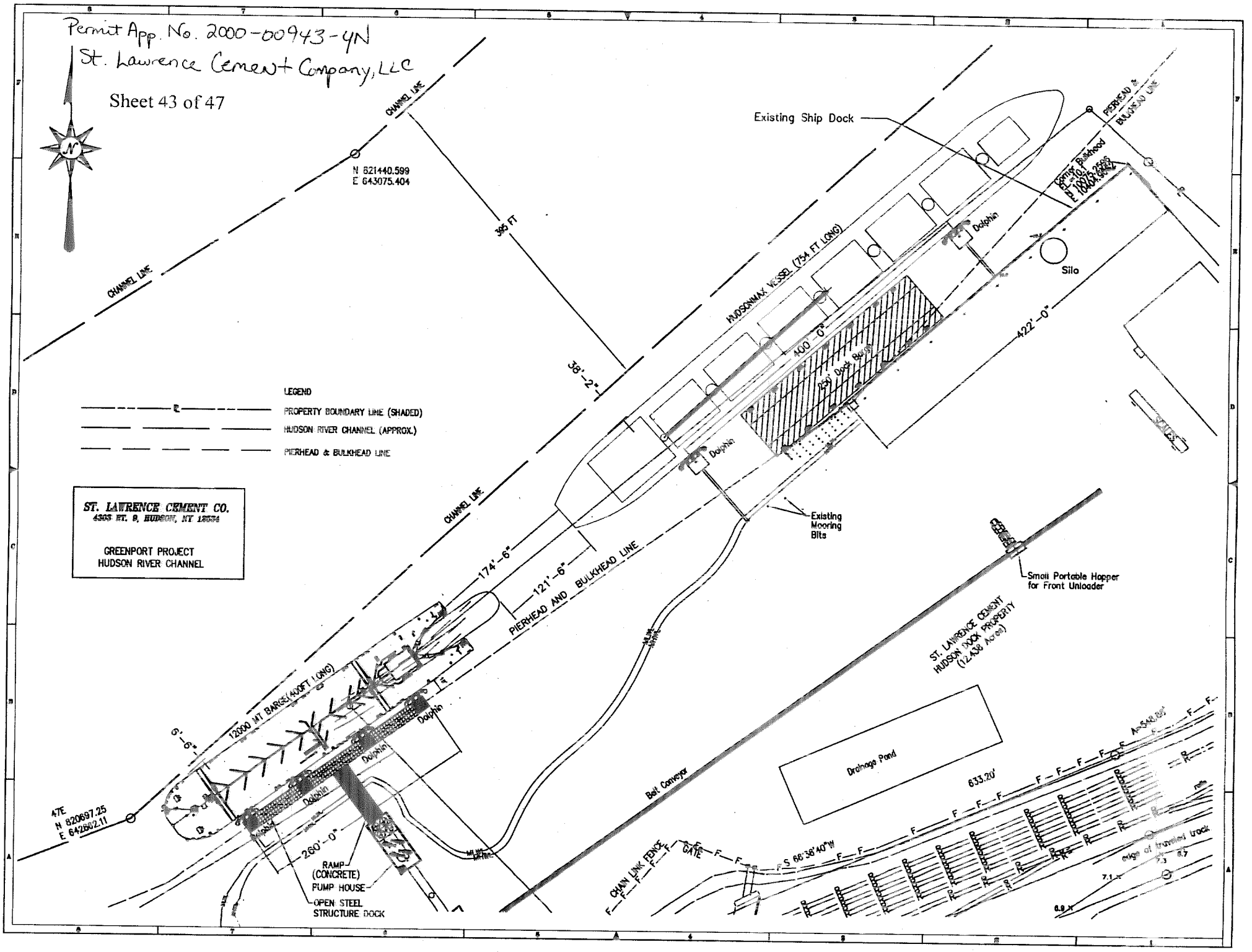
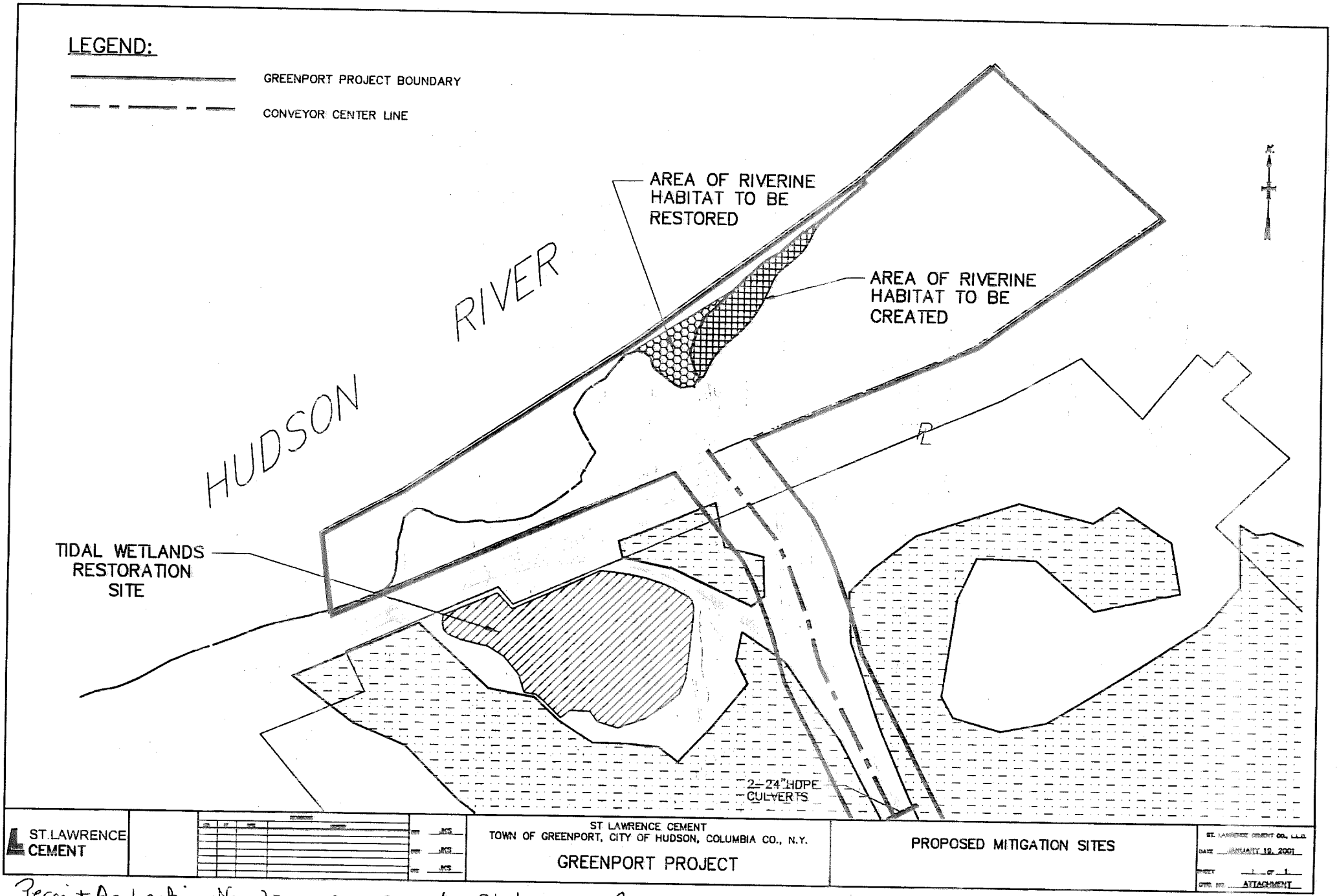
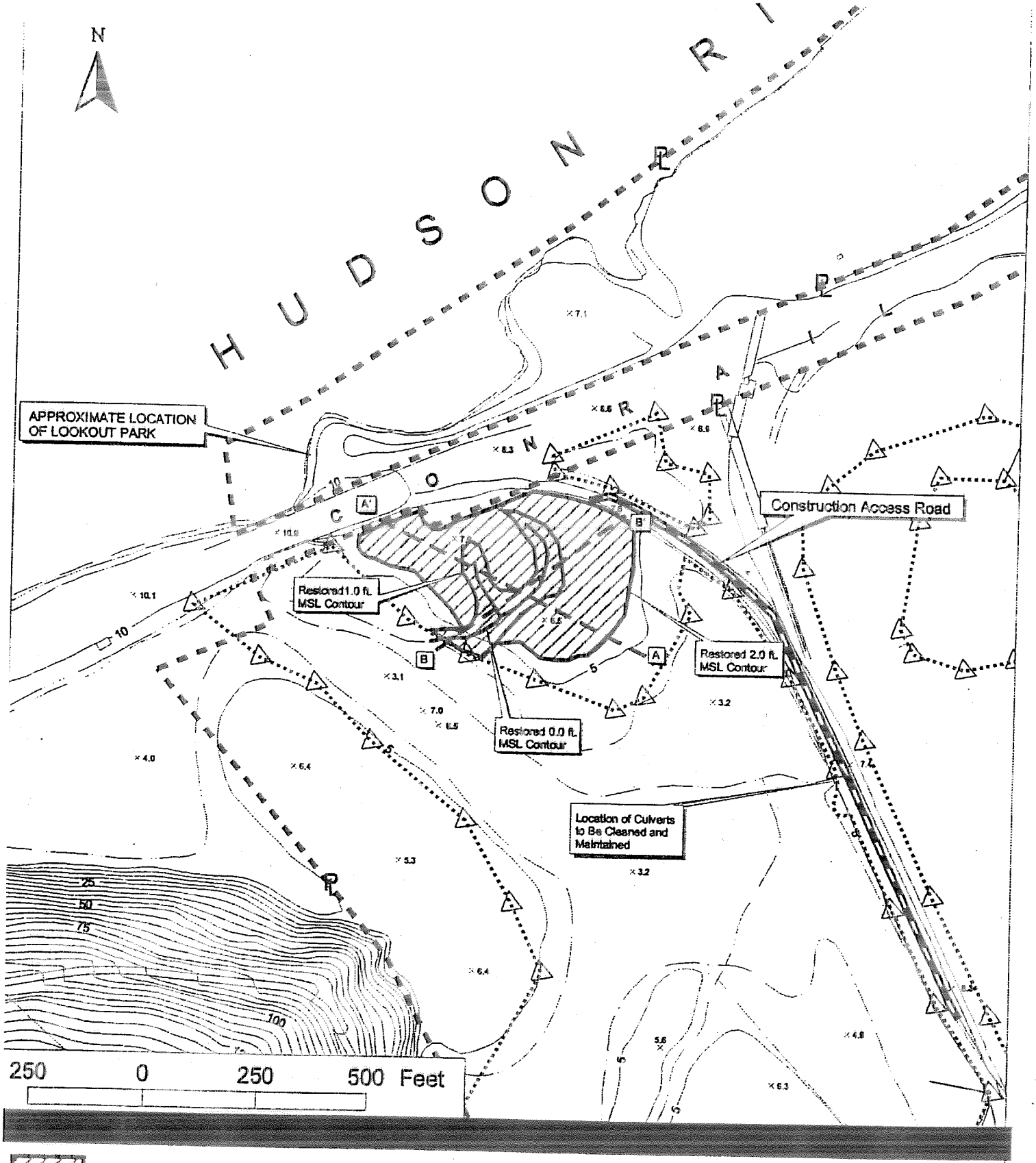




Permit Application No. 2000-00943-4N St. Lawrence Cement Company, LLP

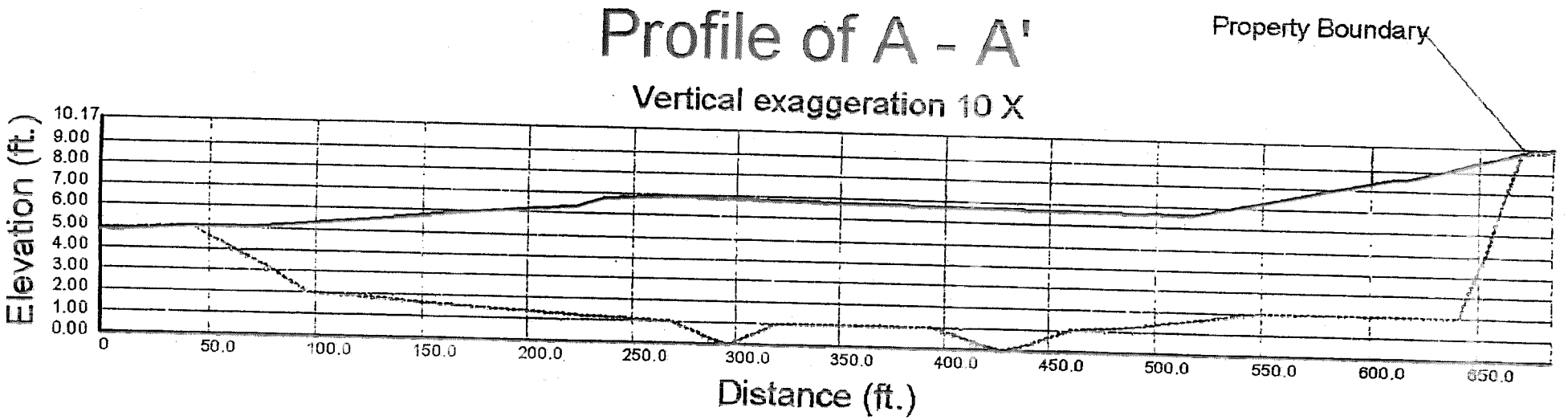


Plan View of Proposed Tidal Wetlands Restoration Site

Appl. No. 2000-00943-4N St. Lawrence Cement Company, LLC

Existing Section Profile

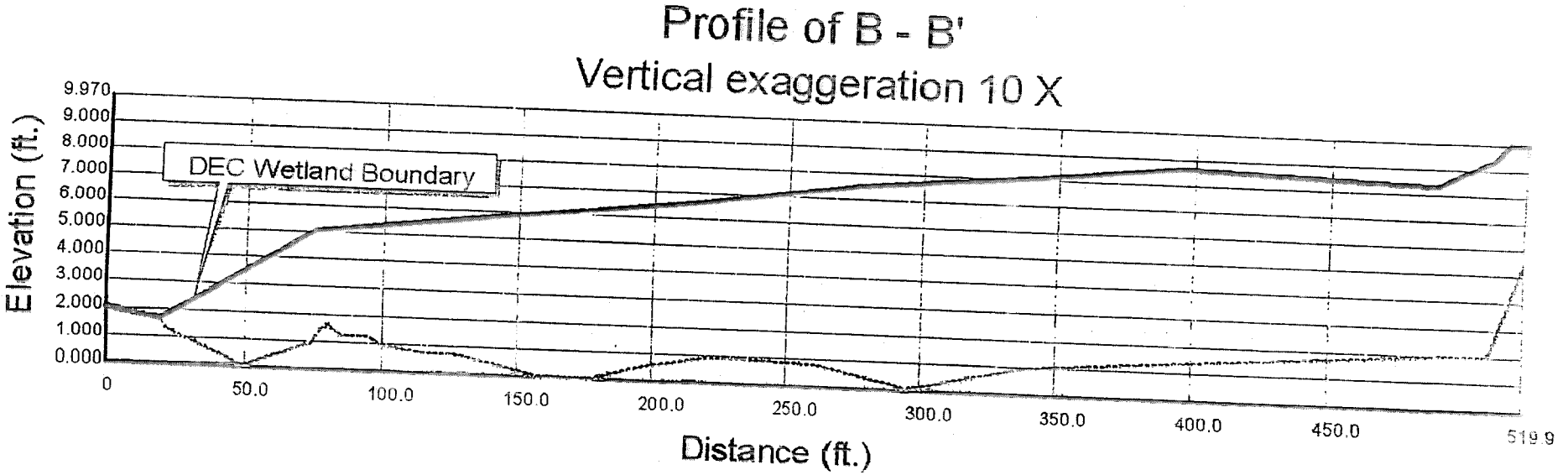
Proposed Wetland Section Profile



Typical Section View - Proposed Restoration Site, Section A - A'

Existing Section Profile

Proposed Wetland Section Profile



Typical Section View - Proposed Restoration Site, Section B - B'

Permit Appl. No 2000-00943-YN St. Lawrence Cement Company, LLC