Appendix A
NOTES:
1. DIMENSIONS SHOWN ON THIS DRAWINGS ARE APPROXIMATE AND FOR INFORMATION ONLY.
2. OPTION 1 ASSUMES THAT THE EXISTING SEAWALL CONCRETE IS ADEQUATE TO TRANSFER PILE LOADS. IF THE EXISTING CONCRETE IS NOT ADEQUATE, THEN REFER TO OPTION 2 FOR NEW CONCRETE PILE CAP ALTERNATIVE.

1. TYPICAL MICROPILE SUPPORTED SEAWALL SECTION

Scale: N.T.S.

EXISTING SEAWALL
TOP OF WALL
EL 7.7
EX. SIDEWALK
EL 6.17
EX. PAVEMENT
EL 5.67
CORED HOLE THROUGH
EXISTING CONCRETE
SEAWALL (TYP.)
CURRENT MUD LINE
EL ±0.00 (VARIES)

BATTERED MICROPILE @
APPROX. 6" O.C. (STAGGERED
WITH VERTICAL MICROPILES)

VERTICAL MICROPILE
@ APPROX. 6" O.C.

COOPER MARL
EL -65 TO EL -75

APPROX. 35' - 45'
BOND

30'

APPROX. 20'-0"

APPROX. 20'-0"

ELS

A
FIG-1

B
FIG-1

3" DIAMETER
HOLLOW BAR

GROUT

APPROX. 6" O.D.
STEEL CASING

TYPICAL MICROPILE ALONG UNBONDED LENGTH
Scale: N.T.S.

TYPICAL MICROPILE SECTION ALONG BONDED LENGTH
Scale: N.T.S.

NOTES:
EXISTING TIMBER PILES AND RELIEVING PLATFORM NOT SHOWN FOR CLARITY.

PRELIMINARY
NOT FOR CONSTRUCTION

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EXISTING SEAWALL  
EL 7.7

EX. SIDEWALK  
EL 6.17

EXIST. MEDIAN

EXIST.  
UTILITY

PIPE STRUT  
@ 9' O.C.

PILE SUPPORTED DEADMAN  
@ 9' O.C.

8'-2"

CORED HOLE THROUGH EXISTING CONCRETE SEAWALL (TYP.)

CURRENT MUD LINE  
EL ±0.00 (VARIES)

MICROPILES STAGGERED  
@ APPROX. 9' O.C. (TYP.)

COOPER MARL  
EL -65 TO EL -70

APPROX. 35' - 45'  
BOND

APPROX. 20' - 0'  
(TYP.)

APPROX. 10' - 20'  
BOND

APPROX. 20' - 0'  
(TYP.)

APPROX. 35' - 45'  
BOND

ESTIMATED 4' - 6' DEEP

NOTE:
EXISTING TIMBER PILES AND RELIEVING PLATFORM NOT SHOWN FOR CLARITY.

PRELIMINARY NOT FOR CONSTRUCTION

NOTE:
EXISTING TIMBER PILES AND RELIEVING PLATFORM NOT SHOWN FOR CLARITY.

1. DIMENSIONS SHOWN ON THIS DRAWINGS ARE APPROXIMATE AND FOR INFORMATION ONLY.

2. BATTERED PILES ARE ELIMINATED BY THIS OPTION. LATERAL LOAD CAPACITY IS PROVIDED PRIMARILY BY THE DEADMAN SYSTEM.


NOTES: 1. DIMENSIONS SHOWN ON THIS DRAWINGS ARE APPROXIMATE AND FOR INFORMATION ONLY.

EXISTING SEAWALL
EL 7.7
NEW CONC. PILE CAP DOWELED INTO EXISTING SEAWALL
EL ± 0.00
CURRENT MUD LINE
EL ± 0.00 (VARIES)
BATTERED MICROPILE @ APPROX. 6' O.C. (STAGGERED WITH VERTICAL MICROPILES)
APPROX. 20'-0"
APPROX. 35'-45' BOND

MICROPILE UNBONDED SECTION
Scale: N.T.S.

MICROPILE BONDED SECTION
Scale: N.T.S.

VERTICAL AUGER CAST PILE @ APPROX. 6' O.C.

COOPER MARL
EL -65 TO EL -75

APPROX. 12" O.D. STEEL CASING

#18 REBAR

GROUT

APPROX. 6" O.D. STEEL CASING

3" DIAMETER HOLLOW BAR

GROUT

APPROX. 6' O.D. STEEL CASING

3" DIAMETER HOLLOW BAR

#18 REBAR

GROUT

A
B
C
D

A.C. PILE UNBONDED SECTION
Scale: N.T.S.

A.C. PILE BONDED SECTION
Scale: N.T.S.

TYPICAL MICROPILE AND AUGER CAST PILE SEAWALL SECTION
Scale: N.T.S.

NOTE:
EXISTING TIMBER PILES AND RELIEVING PLATFORM NOT SHOWN FOR CLARITY.

PRELIMINARY
NOT FOR CONSTRUCTION