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| PURPOSE: | BARGE DOCK 3 BULKHEAD REPLACEMENT |
| LOCATION: | GALENA PARK, TX |

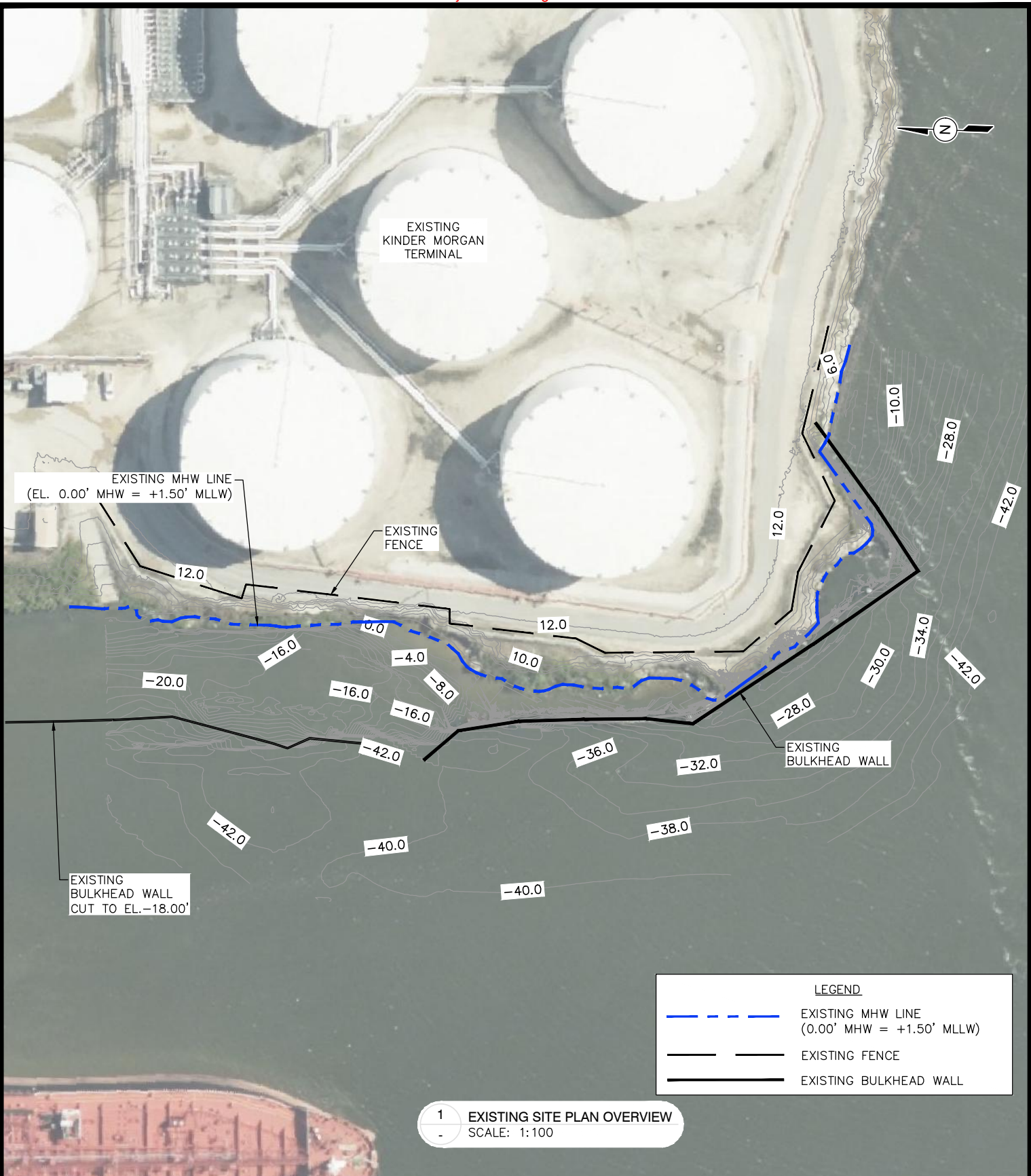
| | |
|-------------|-------------------------|
| OWNER: | KINDER MORGAN |
| APPLIED BY: | LLOYD ENGINEERING, INC. |
| APPLIC. No: | SWG-2008-00319 |
| COUNTY: | HARRIS |
| WATER BODY: | HOUSTON SHIP CHANNEL |
| DATUM: | MLLW |

LLOYD ENGINEERING, INC.
STATE OF TEXAS, USA
LICENSE NO. F-002846

| | |
|------------|----------|
| DESIGN BY: | VM |
| DRAWN BY: | EZ |
| SCALE: | AS NOTED |
| DATE: | 10/20/21 |
| SHEET No: | 1 |

FILE NAME: L:\projects\kindermorgan\GP BD 3\shoreline protection\6.0 drawings\Permits\1 Cover.dwg LAYOUT NAME: Cover PLOTTED: Wednesday, October 20, 2021 - 2:28pm USER: edward.zepeda

FILE NAME: L:\ei\projects\kindermorgan\GP BD 3\shoreline protection\6.0 drawings\Permits\2 EXISTING SITE PLAN.dwg LAYOUT NAME: EXISTING SITE PLAN PLOTTED: Wednesday, October 20, 2021 - 2:28pm USER: edward.zepeda

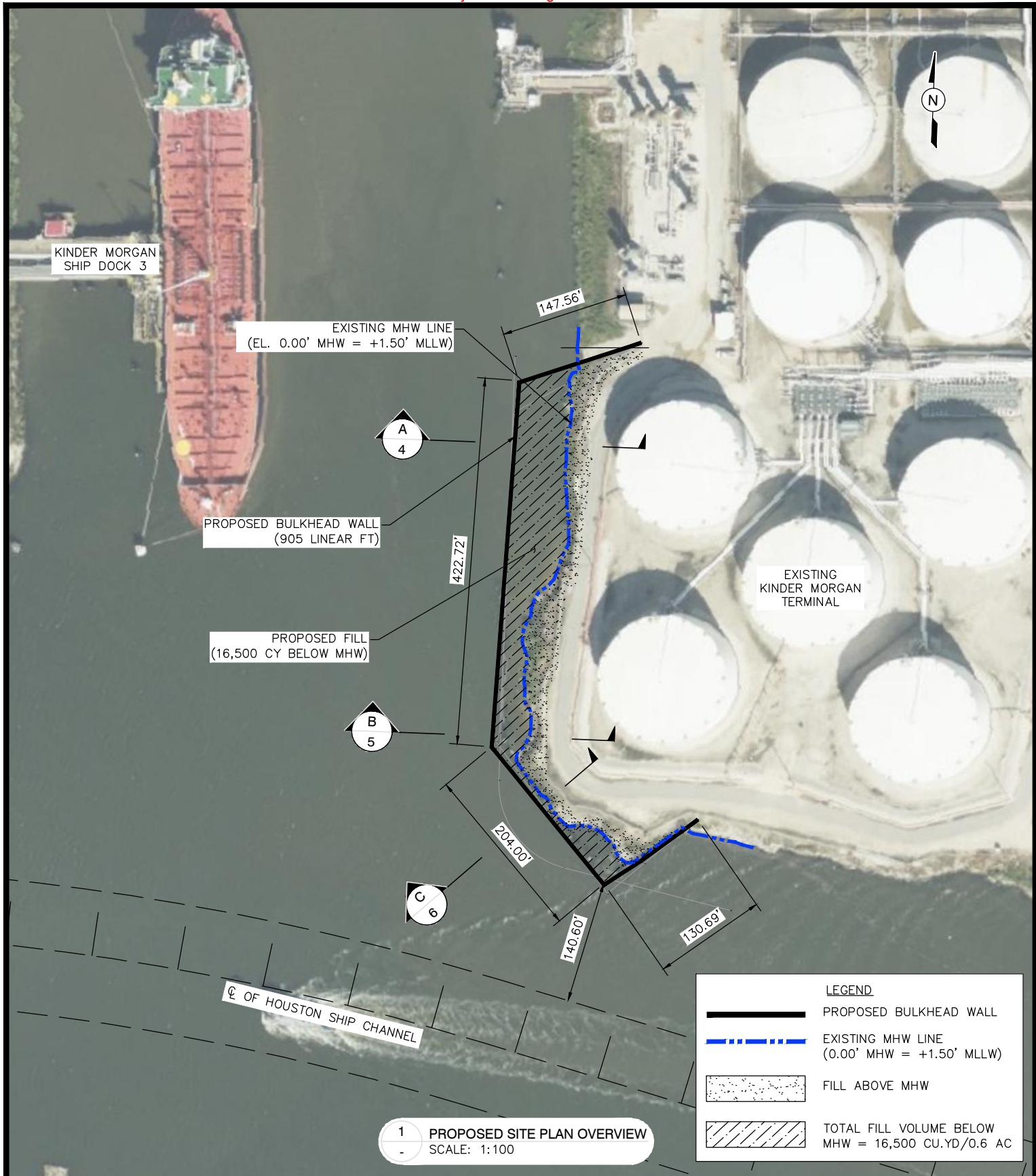


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| DATE: | 10/20/21 |
| SHEET No: | 2 |

FILE NAME: L:\projects\kindermorgan\GP BD 3\shoreline protection\6.0 drawings\Permits\3 PROPOSED SITE PLAN.dwg LAYOUT NAME: PROPOSED SITE PLAN PLOTTED: Wednesday, October 20, 2021 - 2:29pm USER: edward.zepeda



1 PROPOSED SITE PLAN OVERVIEW
SCALE: 1:100

LEGEND

-  PROPOSED BULKHEAD WALL
-  EXISTING MHW LINE (0.00' MHW = +1.50' MLLW)
-  FILL ABOVE MHW
-  TOTAL FILL VOLUME BELOW MHW = 16,500 CU.YD/0.6 AC

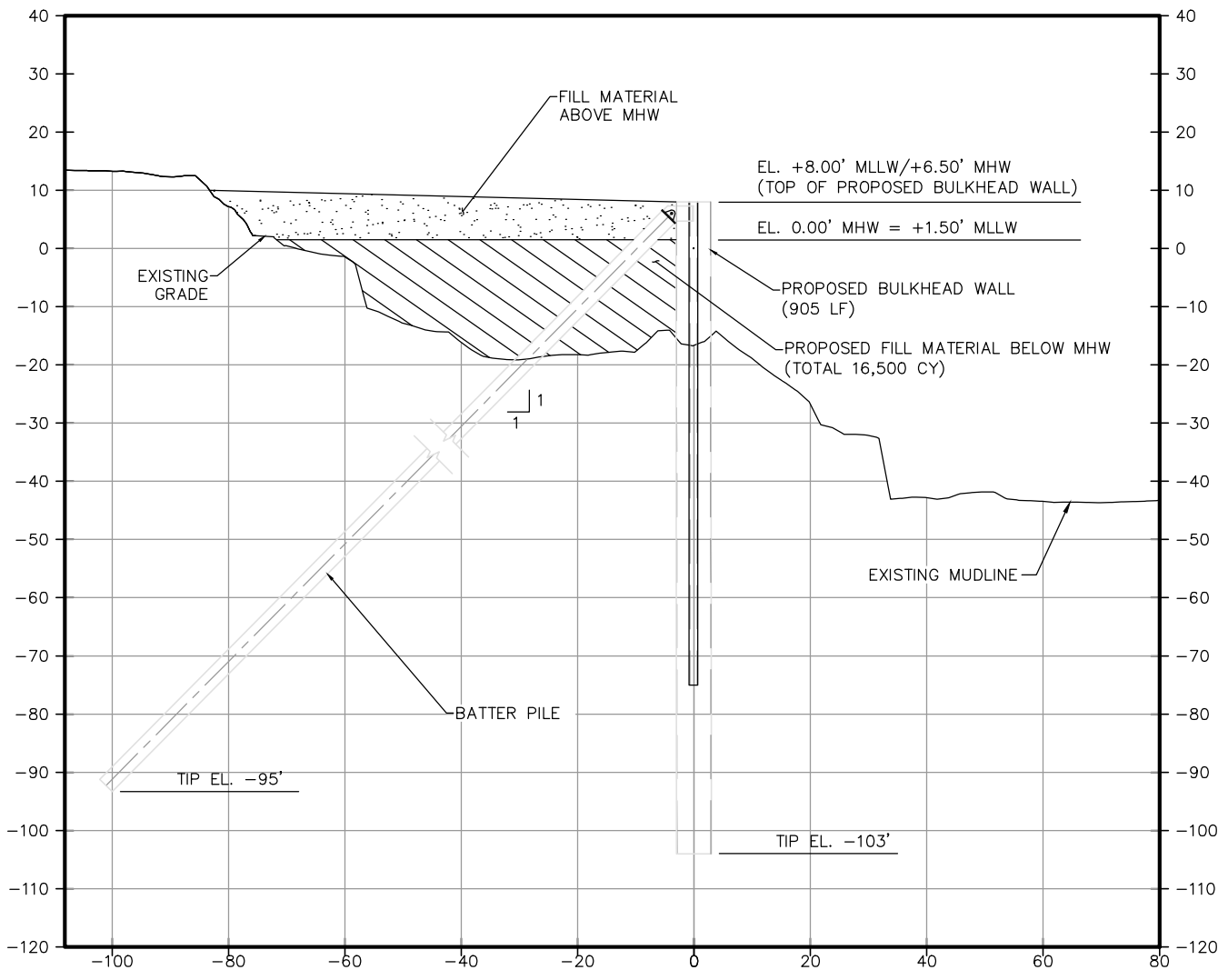
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| DATE: | 10/20/21 |
| SHEET No: | 3 |

FILE NAME: L:\ei\projects\kindermorgan\GP BD 3\shoreline protection\6.0 drawings\Permits\4 CROSS SECTIONS SHEET 1 OF 3.dwg LAYOUT NAME: 4 CROSS SECTIONS SHEET 1 OF 3 PLOTTED: Wednesday, October 20, 2021 - 2:29pm USER: edward.zepeda



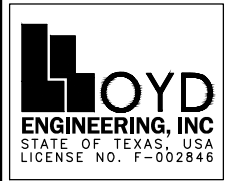
NOTES:

1. ALL ELEVATIONS SHOWN ARE IN MLLW UNLESS NOTED OTHERWISE.
2. ALL FILL MATERIAL SHALL BE CLEAN AND FREE OF DEBRIS.

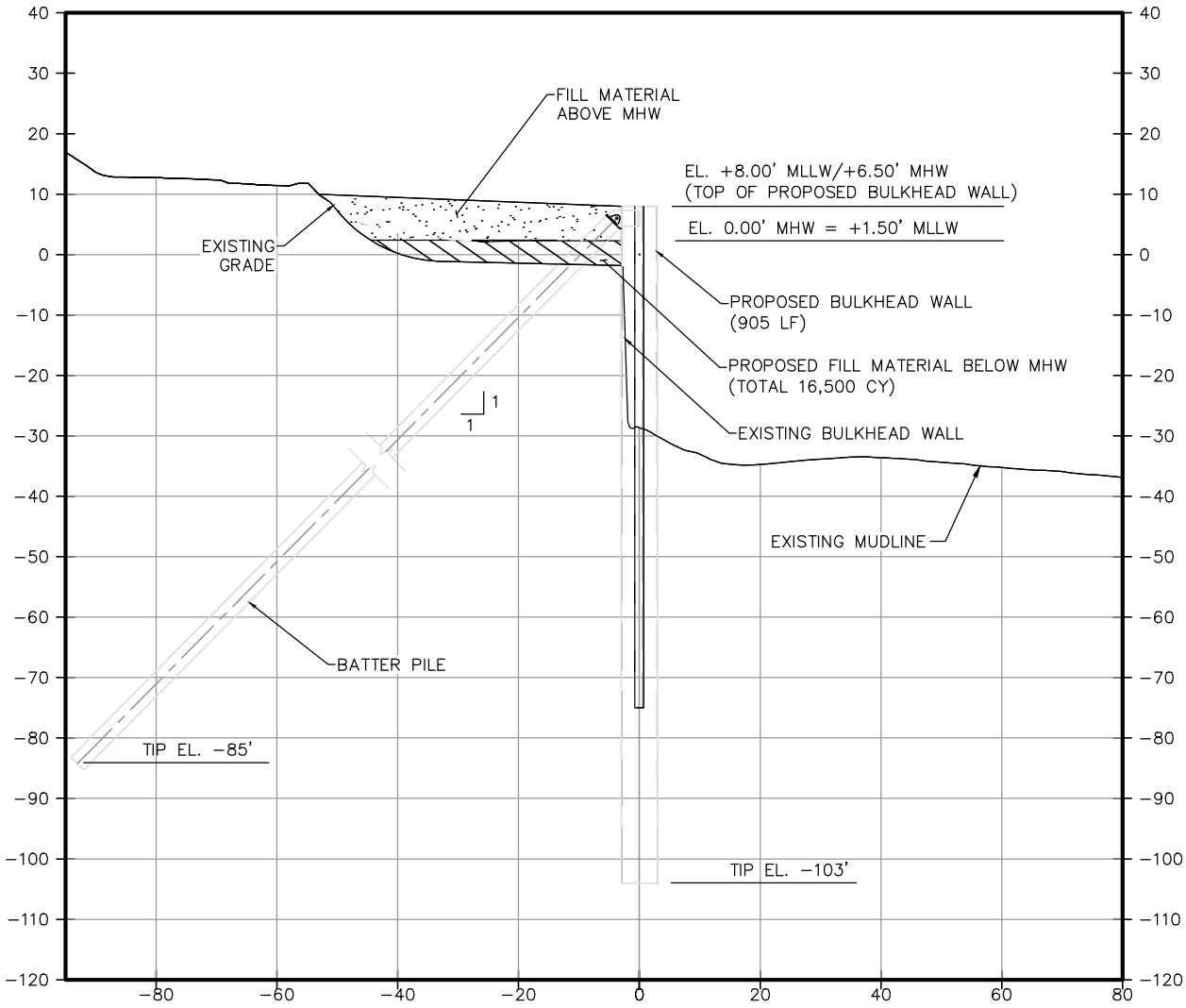
A
3 PROPOSED BULKHEAD WALL CROSS-SECTION
SCALE: 1:30

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| DATE: | 10/20/21 |
| SHEET No: | 4 |



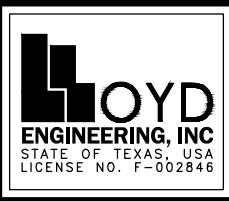
B
3 PROPOSED BULKHEAD WALL CROSS-SECTION
SCALE: 1:30

NOTES:

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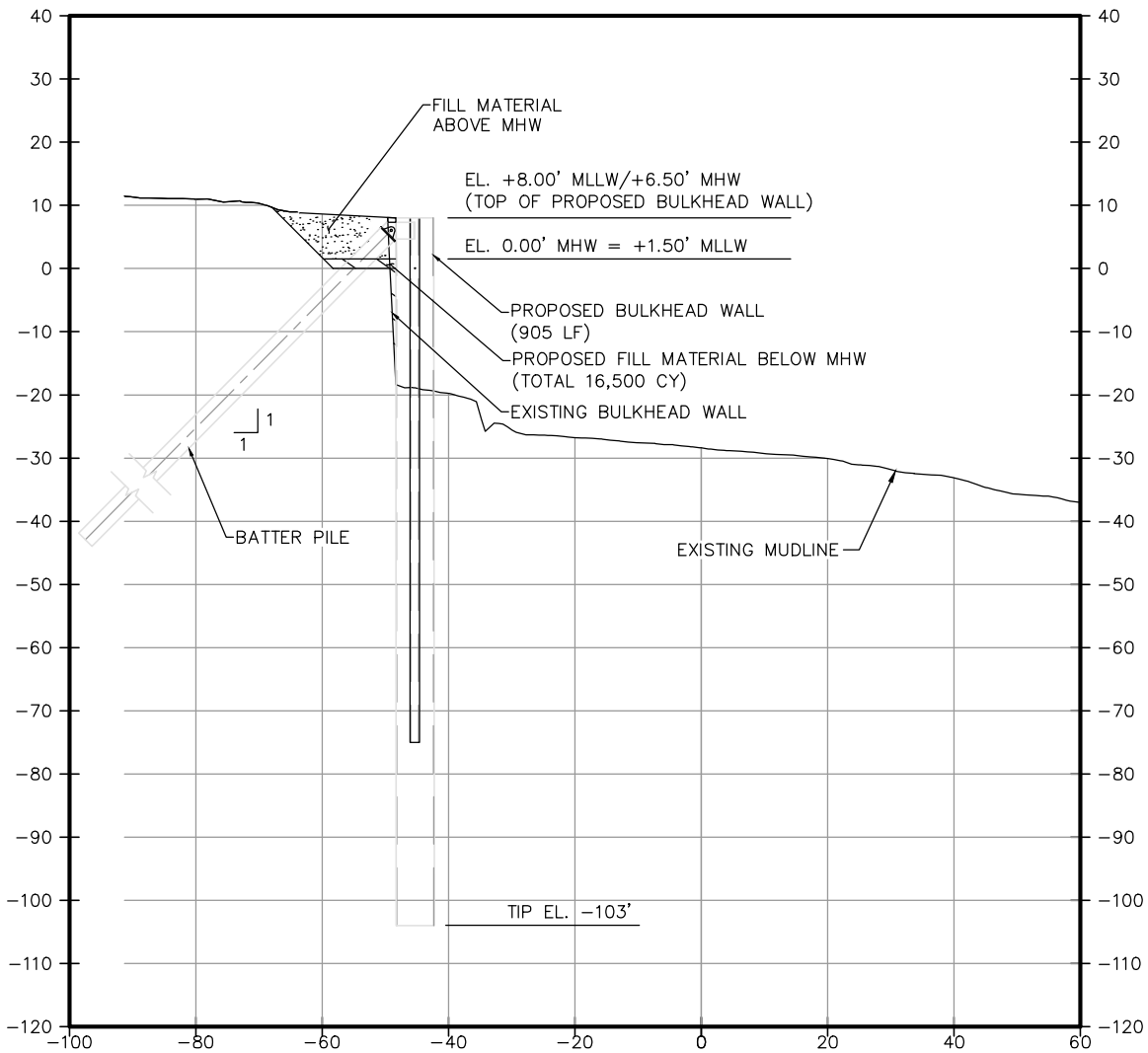
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| SHEET No: | 5 |

FILE NAME: L:\ei\projects\kindermorgan\GP BD 3\shoreline protection\6.0 drawings\Permits\5 CROSS SECTIONS SHEET 2 OF 3.dwg LAYOUT NAME: 5 CROSS SECTIONS SHEET 2 OF 3 PLOTTED: Wednesday, October 20, 2021 - 2:29pm USER: edward.zepeda



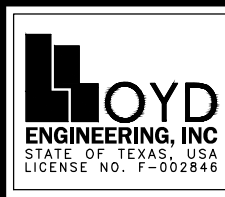
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C
3
PROPOSED BULKHEAD WALL CROSS-SECTION
SCALE: 1:30

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FILE NAME: L:\ei\projects\kindermorgan\GP BD 3\shoreline protection\6.0 drawings\Permits\6 CROSS SECTIONS SHEET 3 OF 3.dwg LAYOUT NAME: 6 CROSS SECTIONS SHEET 3 OF 3 PLOTTED: Wednesday, October 20, 2021 - 2:29pm USER: edward.zepeda