CALIFORNIA COASTAL COMMISSION
45 FREMONT, SUITE 2000
SAN FRANCISCO, CA 94105- 2219
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TDD (415) 597-5885

W 14a

CC-0001-17 (SANDAG)

June 7, 2017

EXHIBITS

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I:\PROJECTS\D\DEA\DEA-04.09_SDRBridge\Map\BIO\CCC\Fig1_Regional.mxd DEA-04.09 04/16/14-RK

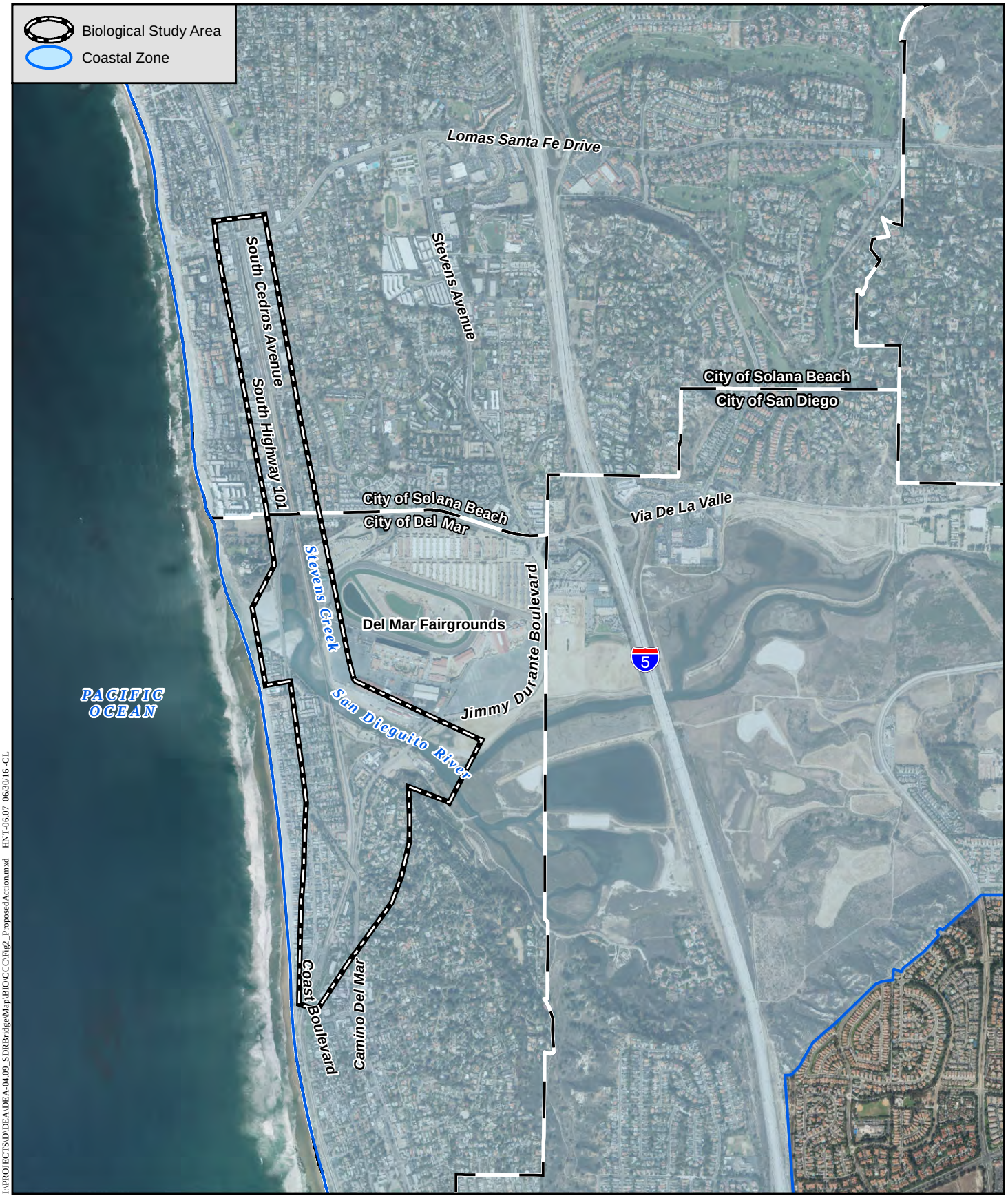
Regional Location Map

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 8 Miles

Exhibit 1
CC-0001-17



I:\PROJECTS\D\DEA\DEA-04.09_SDRBridge\Map\BIO\CCC\Fig2_ProposedAction.mxd HNT-06.07 06/30/16 -CL

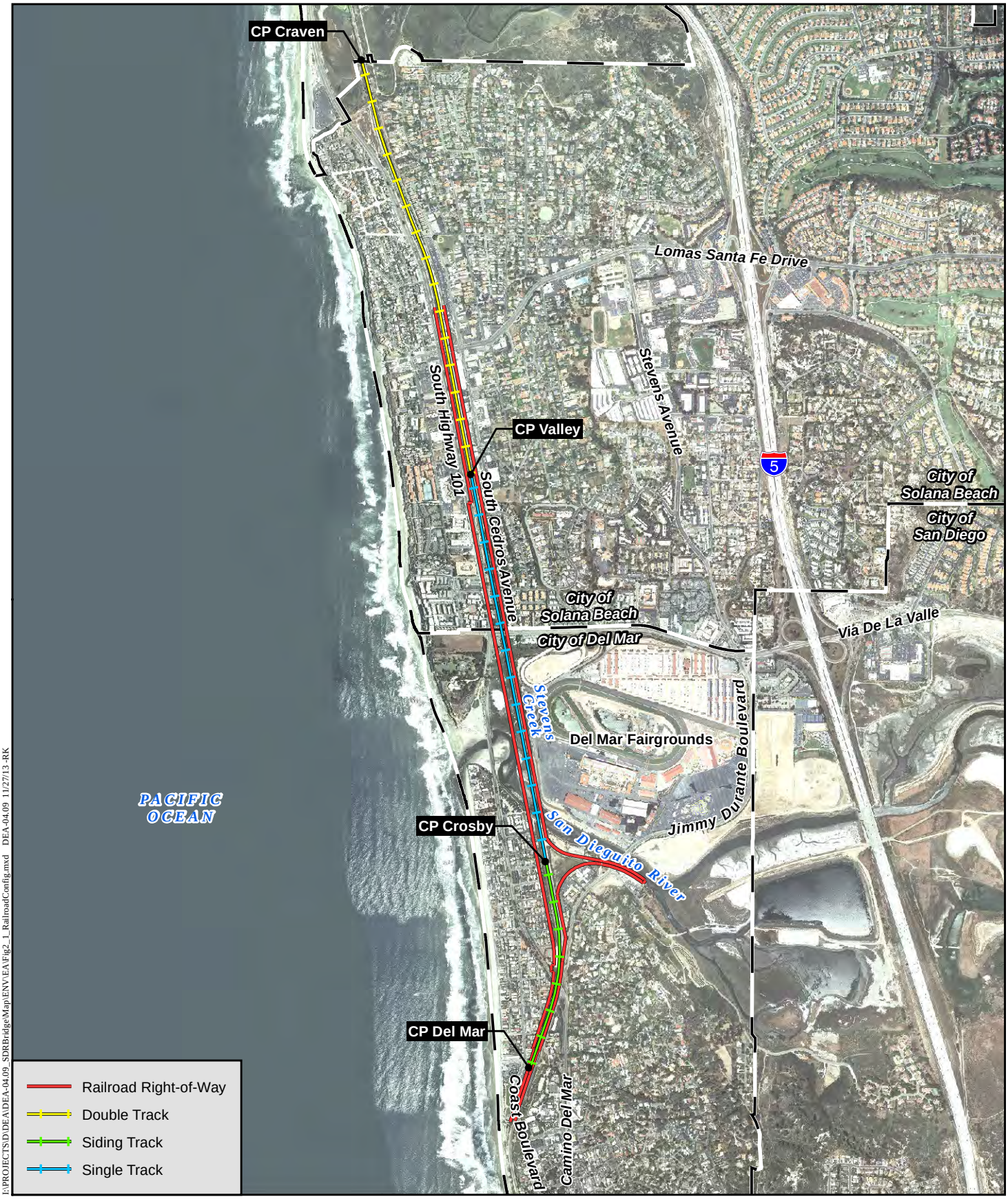
Proposed Action Location Map

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 2,000 Feet

Exhibit 2
CC-0001-17



I:\PROJECTS\D\DEA\DEA-04.09_SDRBridge\Map\ENV\EA\Fig2_1_RailroadConfig.mxd DEA-04.09 11/27/13-RK

Existing Railroad Configuration in the Proposed Action Area

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

N 0 2,000 Feet

Exhibit 3
CC-0001-17

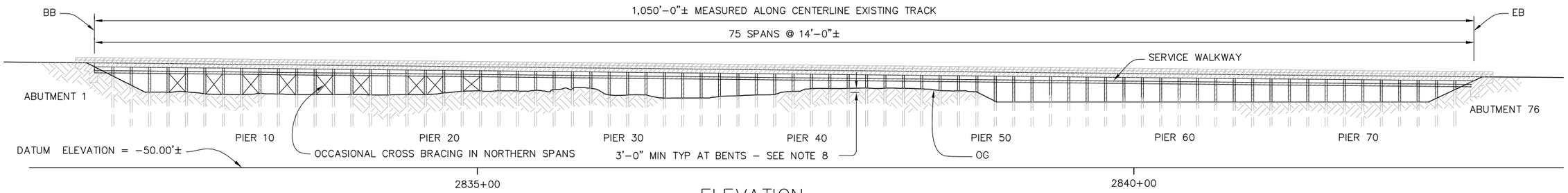
I:\PROJECTS\D\DEA\DEA-04.09_SDRBridge\Map\BIO\CCC\Fig3_MajorProjectFeatures.mxd DEA-04.09 04/28/15-RK

Major Project Features

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

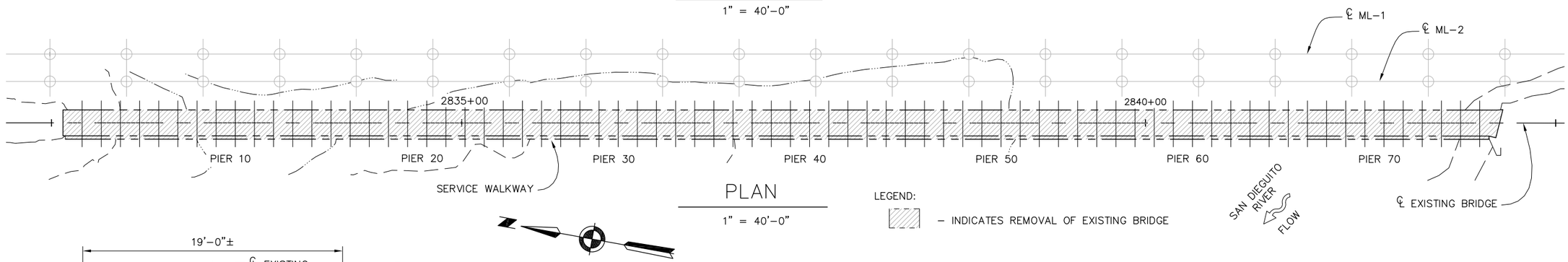
N 0 1,500 Feet

Exhibit 4
CC-0001-17



ELEVATION

1" = 40'-0"

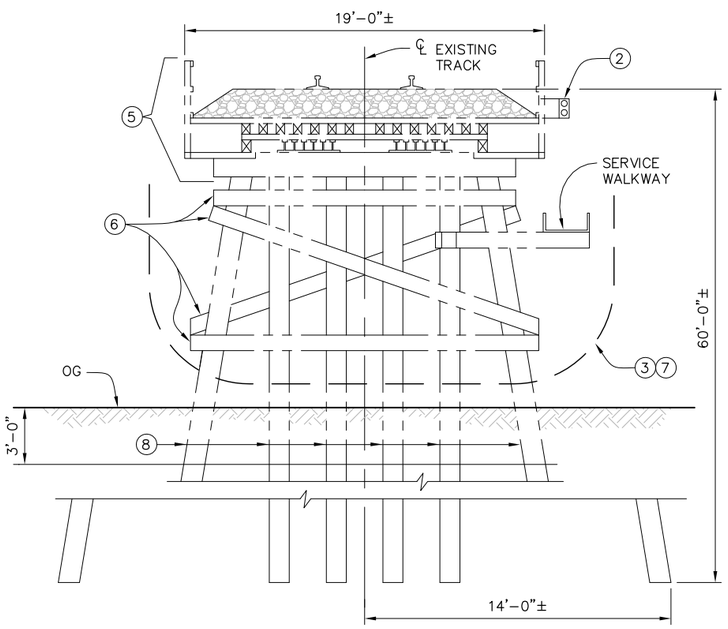


PLAN

1" = 40'-0"

LEGEND:

- INDICATES REMOVAL OF EXISTING BRIDGE



TYPICAL SECTION

1/4" = 1'-0"

BRIDGE REMOVAL NOTES:

1. CONTRACTOR SHALL SUBMIT A BRIDGE REMOVAL AND DISPOSAL PLAN FOR APPROVAL BY NCTD PRIOR TO COMMENCING ANY BRIDGE REMOVAL. THE REMOVAL PLAN SHALL CONFORM TO THE CONTRACT AND SHOW THE METHODS AND SEQUENCE OF REMOVAL AND EQUIPMENT TO BE USED.
2. UTILITIES FROM EXISTING BRIDGE SHALL BE RELOCATED PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO REMOVE UTILITY HANGERS AND CONDUIT. COORDINATE REMOVAL WITH UTILITY COMPANIES.
3. ERECT A PLYWOOD DEBRIS BARRIER AND A FABRIC NET UNDER THE EXISTING BRIDGE PER THE TYPICAL SECTION. NO EXISTING BRIDGE DEBRIS SHALL BE ALLOWED TO FALL ONTO THE EMBANKMENT OR INTO THE EXISTING WATERWAY BELOW THE BRIDGE. ALL DEBRIS FROM THE REMOVAL PROCESS SHALL BE CONTAINED AND REMOVED FROM THE SITE AND PROPERLY DISPOSED.
4. PRIOR TO COMMENCING ANY REMOVAL OPERATIONS OVER THE WATER, FLOATING SURFACE BOOMS SHALL BE INSTALLED.
5. REMOVE EXISTING TRACK, BALLAST, CURB, BOX BEAMS AND PILE CAPS.
6. REMOVE EXISTING PIER WALLS.
7. REMOVE ALL TEMPORARY SUPPORTS, FLOATING BOOMS AND DEBRIS NETS.
8. ALL PILES SHALL BE CUT-OFF AND REMOVED A MINIMUM DEPTH OF 3'-0" BELOW GRADE IN DRY SITUATIONS AND REMOVED TO THE EXISTING GROUND LINE IN WET SITUATIONS.

Exhibit 5
CC-0001-17

NO.	DATE	REVISIONS	BY	CHK	APRV

KLEINFELDER
Bright people. Right Solutions.
550 West C Street, Suite 1200 San Diego, CA. 92101
Tel (619) 831-4600

60% SUBMITTAL NOT FOR CONSTRUCTION

DESIGNED BY	DATE
T. CAO	12/16
DRAWN BY T. BRITTAIN	12/16
CHECKED BY S. MEGALLY	12/16
SANDAG L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK BRIDGE
EXISTING STRUCTURE REMOVAL DETAILS

SCALE AS NOTED
SANDAG CONTRACT NO. 5001901
DRAWING NO. SB-010
SHEET NO. 128

60% DESIGN - NOT FOR CONSTRUCTION

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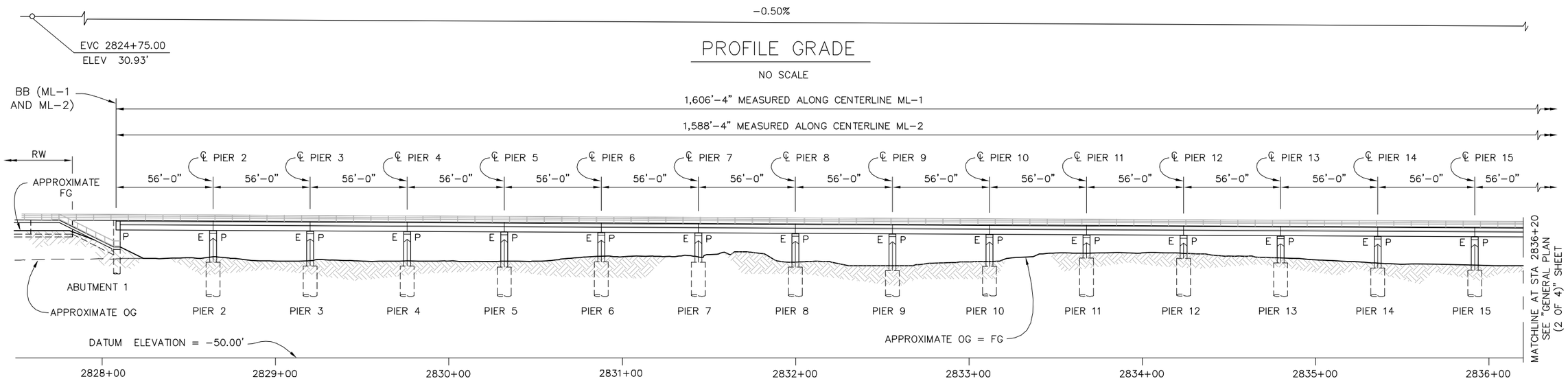

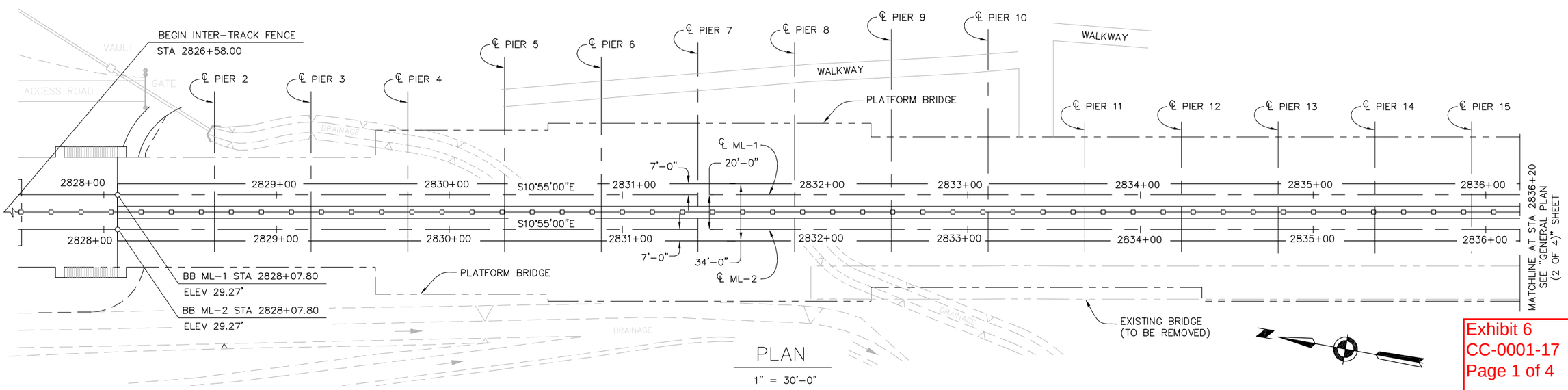

Exhibit 6
CC-0001-17
Page 1 of 4

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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60% DESIGN – NOT FOR CONSTRUCTION

DATE: 03-22-2016

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CHECKED BY	S. MEGALLY	03/16
SANDAG	L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK BRIDGE
GENERAL PLAN (1 OF 4)

SCALE: AS NOTED
SANDAG CONTRACT NO. 5001901
DRAWING NO. SB-001
SHEET NO. 119

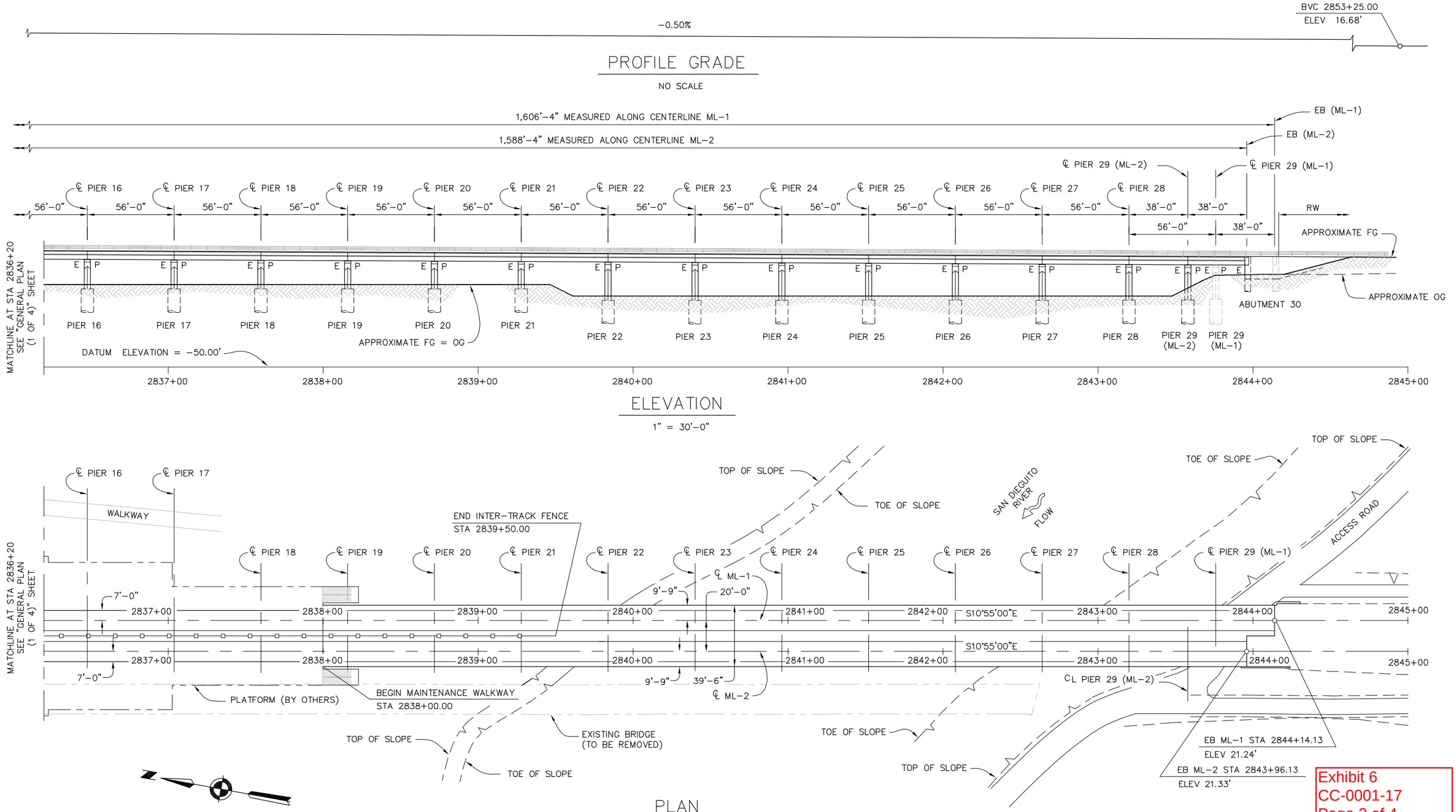

Exhibit 6
CC-0001-17
Page 2 of 4

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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DATE: 03-22-2016

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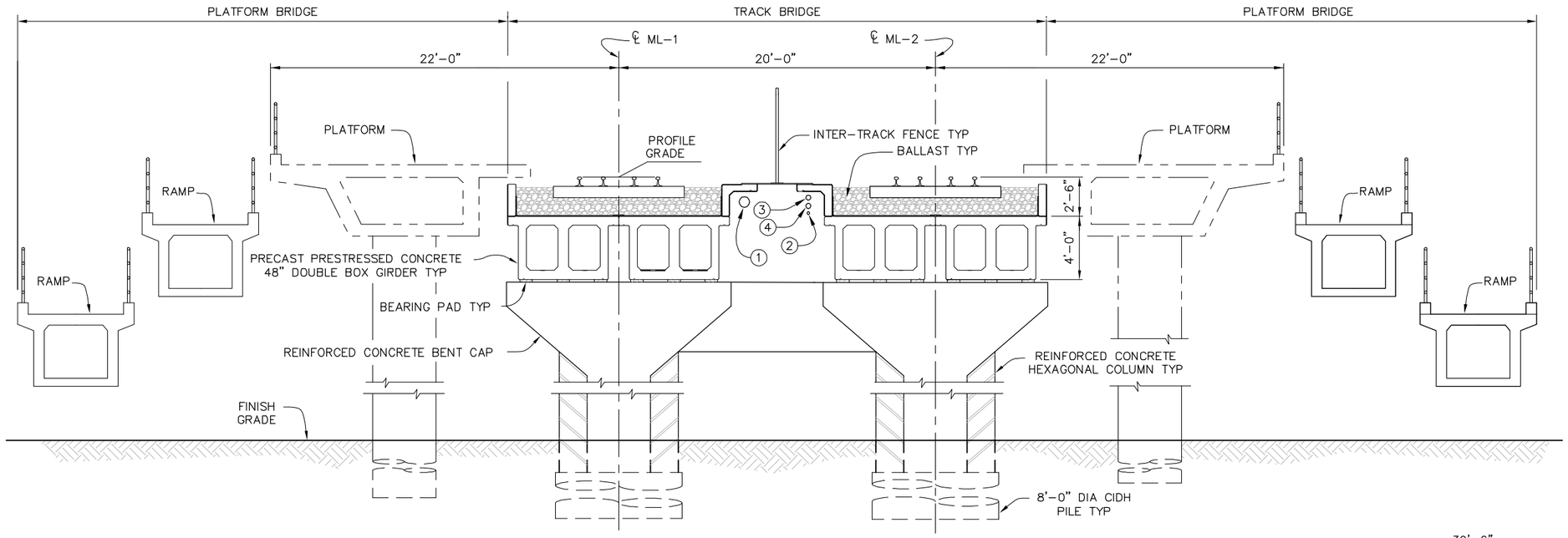
DRAWN BY T. BRITTAIN	03/16
CHECKED BY S. MEGALLY	03/16
SANDAG L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK BRIDGE
GENERAL PLAN (2 OF 4)

SCALE: AS NOTED
SANDAG CONTRACT NO. 5001901
DRAWING NO. SB-002
SHEET NO. 120

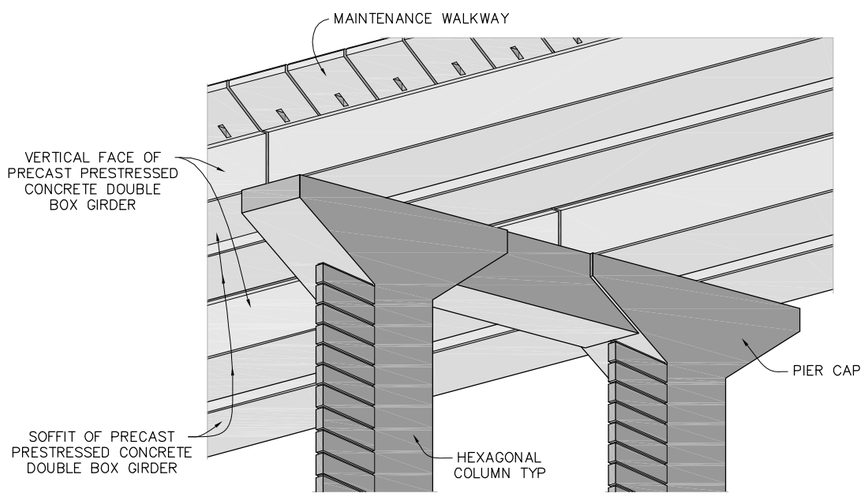


TYPICAL SECTION
SPANS 1–18 (ML–1 AND ML–2)

1/4" = 1'-0"

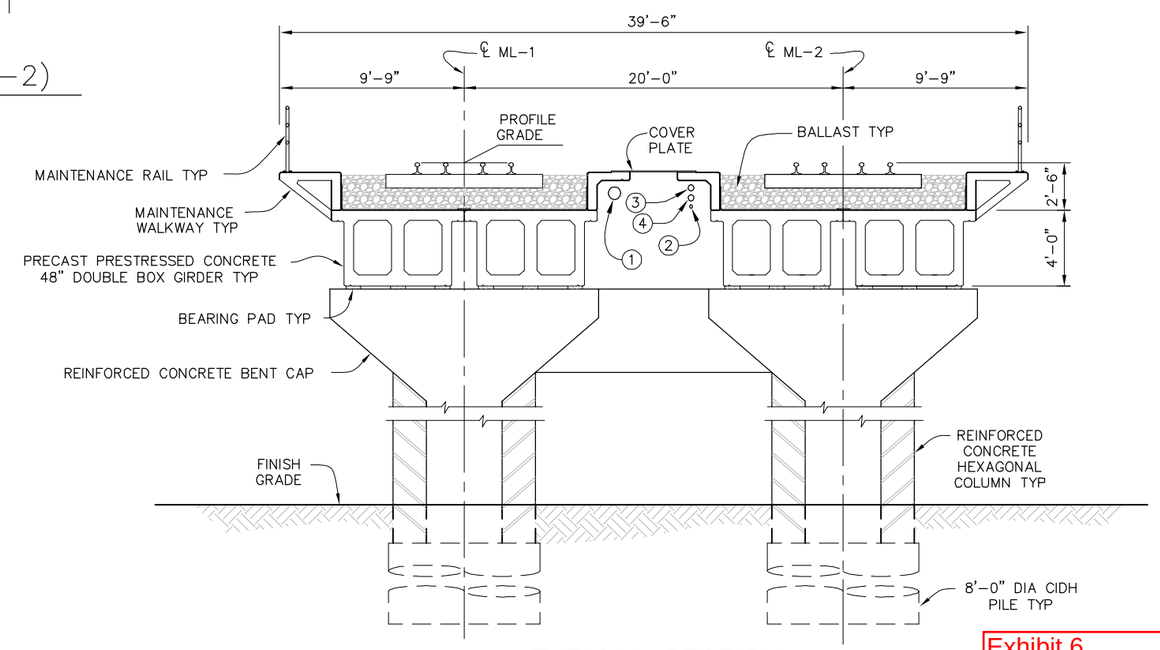
UTILITY LEGEND:

1 – 8" DIA WATER SUPPLY LINE
2 – 2" DIA WATER SUPPLY LINE
3 – 4" DIA ELECTRICAL CONDUIT
4 – 4" DIA FIBER OPTIC CONDUIT



ARCHITECTURAL DETAILS
ISOMETRIC VIEW

NO SCALE



TYPICAL SECTION
SPANS 19–27 (ML–1 AND ML–2)

1/4" = 1'-0"

Exhibit 6
CC-0001-17
Page 3 of 4

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DATE: 03-22-2016

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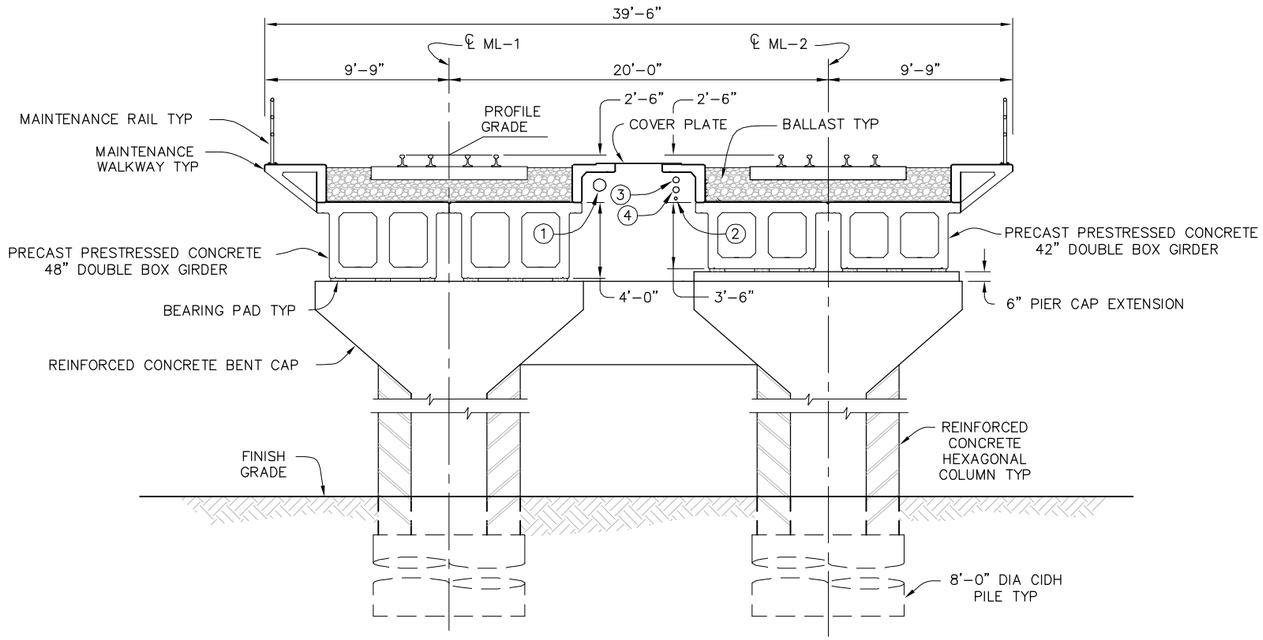
DESIGNED BY	T. CAO	DATE 03/16
DRAWN BY	T. BRITTAIN	03/16
CHECKED BY	S. MEGALLY	03/16
SANDAG	L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK BRIDGE
GENERAL PLAN (3 OF 4)

SCALE: AS NOTED
SANDAG CONTRACT NO. 5001901
DRAWING NO. SB-003
SHEET NO. 121

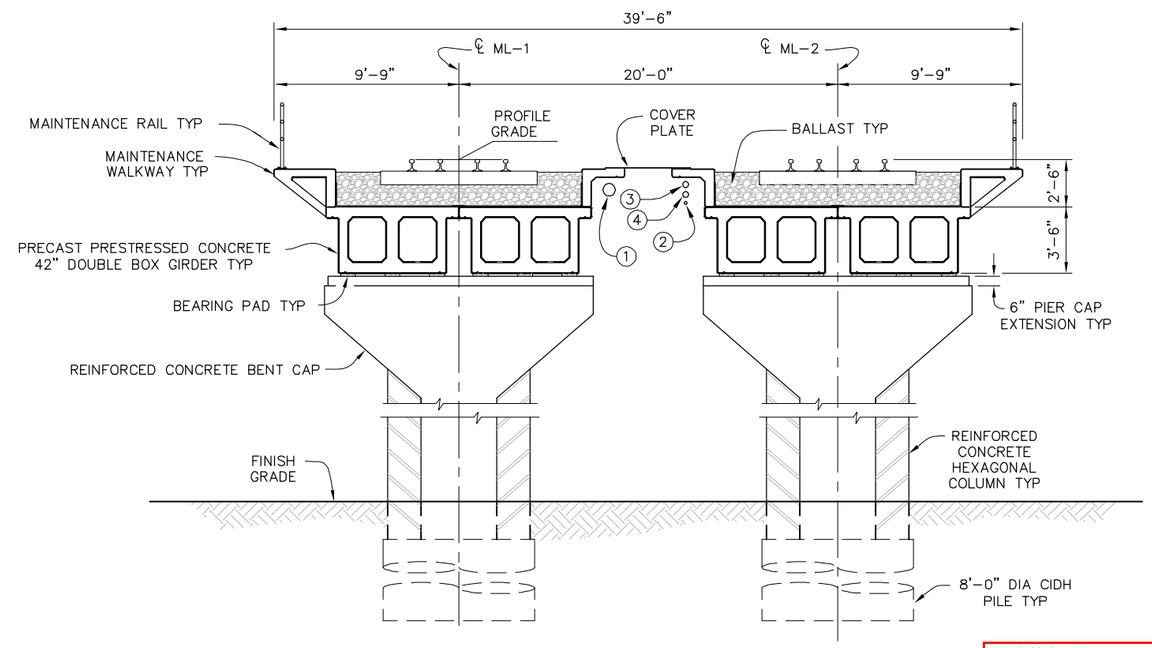


TYPICAL SECTION
SPAN 28 (ML-1 AND ML-2)

1/4" = 1'-0"

UTILITY LEGEND:

1. – 8" DIA WATER SUPPLY LINE
2. – 2" DIA WATER SUPPLY LINE
3. – 4" DIA ELECTRICAL CONDUIT
4. – 4" DIA FIBER OPTIC CONDUIT



TYPICAL SECTION
SPAN 29 (ML-1 AND ML-2)

1/4" = 1'-0"

Exhibit 6
CC-0001-17
Page 4 of 4

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DATE: 03-22-2016

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		DATE
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DRAWN BY	T. BRITTAIN	03/16
CHECKED BY	S. MEGALLY	03/16
SANDAG	L. CULP	03/16

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NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK BRIDGE
GENERAL PLAN (4 OF 4)

SCALE: AS NOTED
SANDAG CONTRACT NO. 5001901
DRAWING NO. SB-004
SHEET NO. 122

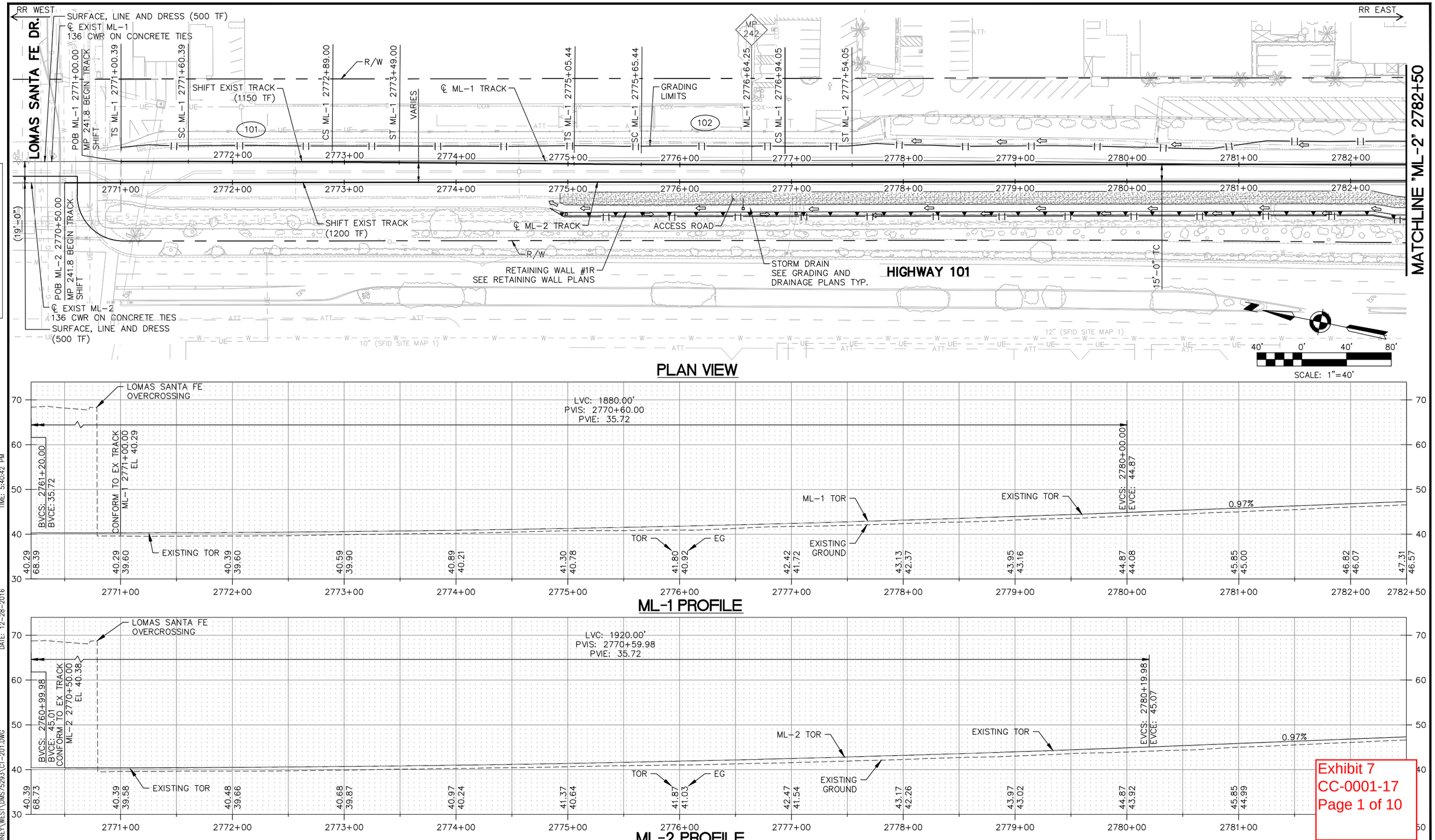

Exhibit 7
CC-0001-17
Page 1 of 10

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DATE: 12-28-2016
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NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

DESIGNED BY N. JEFFERY	DATE 12/16
DRAWN BY M. COOPER	12/16
CHECKED BY P. MCCOLL	12/16
SANDAG L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2770+50 TO ML-2 STA 2782+50

SCALE
HORZ: 1"=40'
VERT: 1"=10'

SANDAG CONTRACT NO. 5001901

DRAWING NO. CT-201
SHEET NO. 22

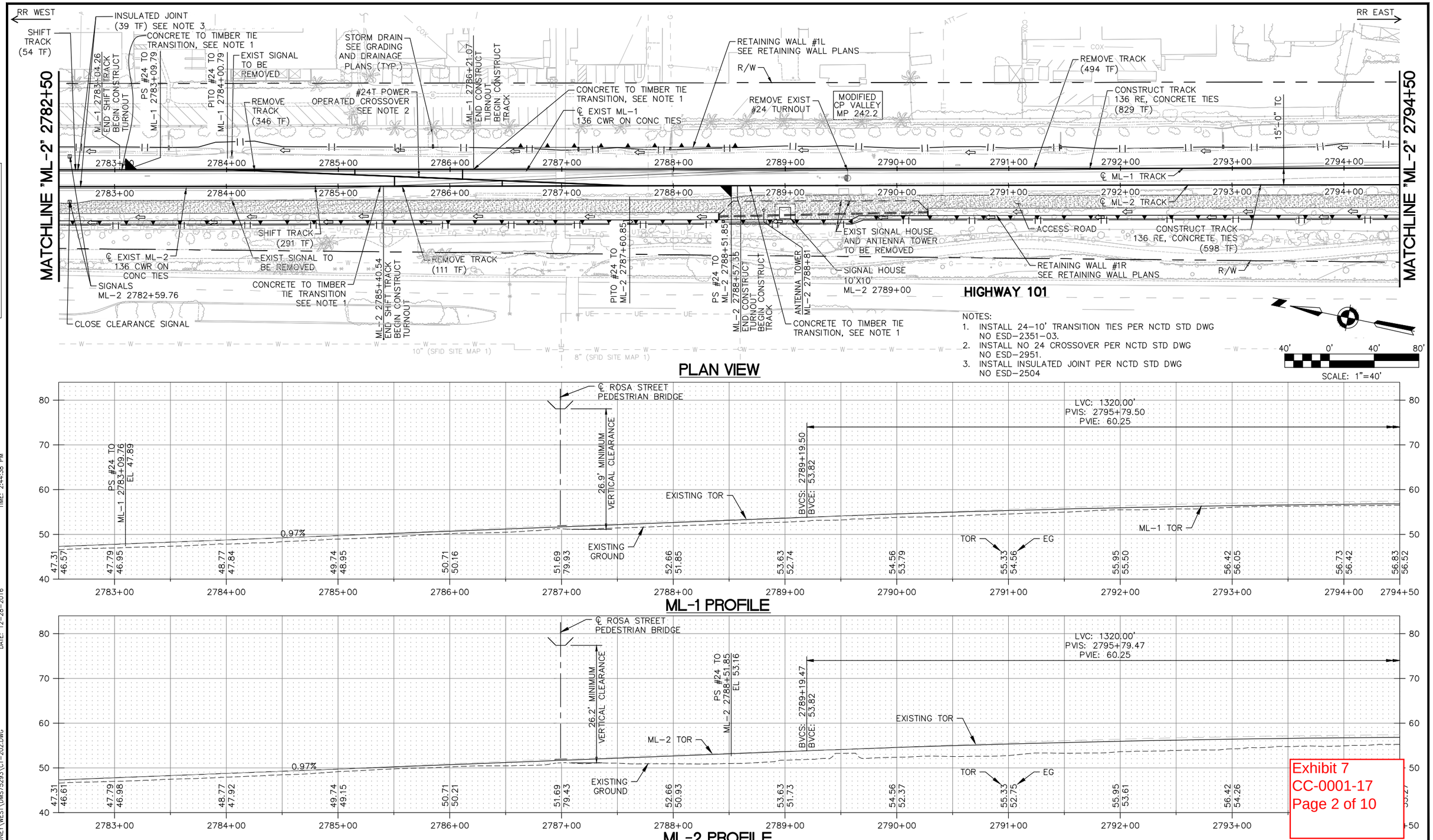

Exhibit 7
CC-0001-17
Page 2 of 10

60% DESIGN – NOT FOR CONSTRUCTION

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Suite 510
San Diego, CA 92101

DESIGNED BY	DATE
N. JEFFERY	12/16
DRAWN BY	
M. COOPER	12/16
CHECKED BY	
P. MCCOLL	12/16
SANDAG	
L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

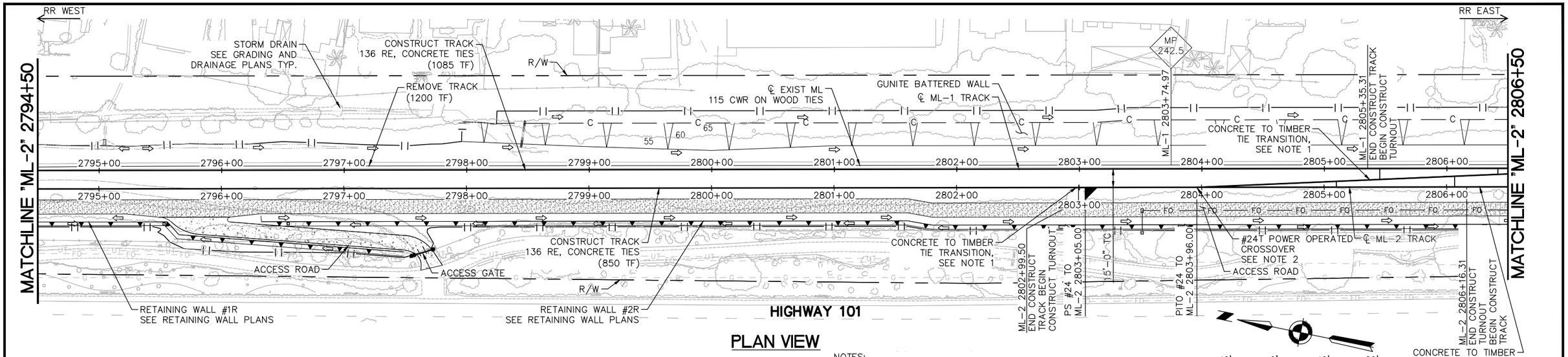
SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2782+50 TO ML-2 STA 2794+50

SCALE
HORZ: 1"=40'
VERT: 1"=10'

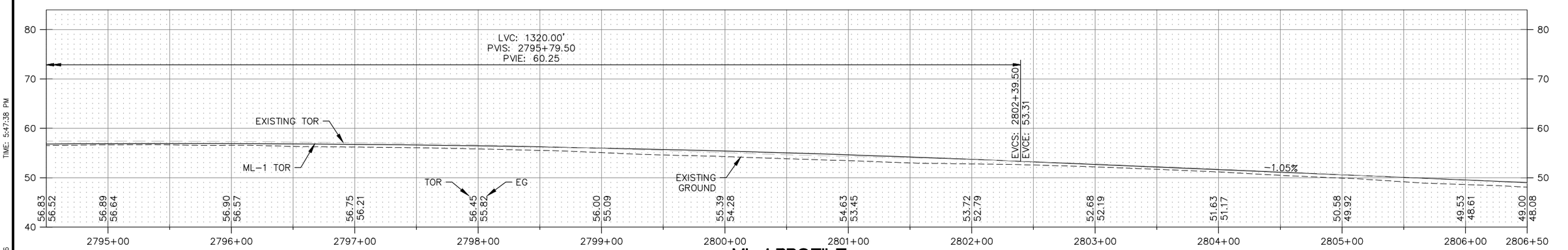
SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-202
SHEET NO. 23

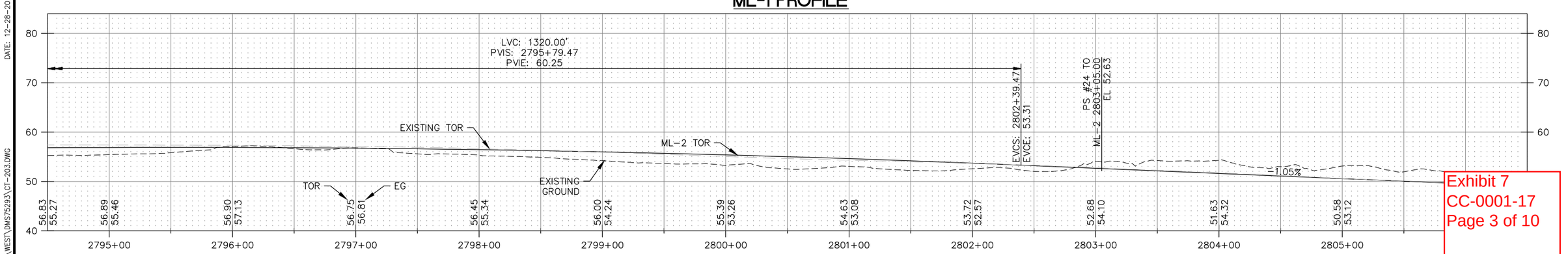


PLAN VIEW

NOTES:
1. INSTALL 24-10' TRANSITION TIES PER NCTD STD DWG NO ESD-2351-03.
2. INSTALL NO 24 CROSSOVER PER NCTD STD DWG NO ESD-2951.



ML-1 PROFILE



ML-2 PROFILE

Exhibit 7
CC-0001-17
Page 3 of 10

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401 B Street
Suite 510
San Diego, CA 92101

	DATE
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DRAWN BY M. COOPER	12/16
CHECKED BY P. MCCOLL	12/16
SANDAG L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2794+50 TO ML-2 STA 2806+50

SCALE
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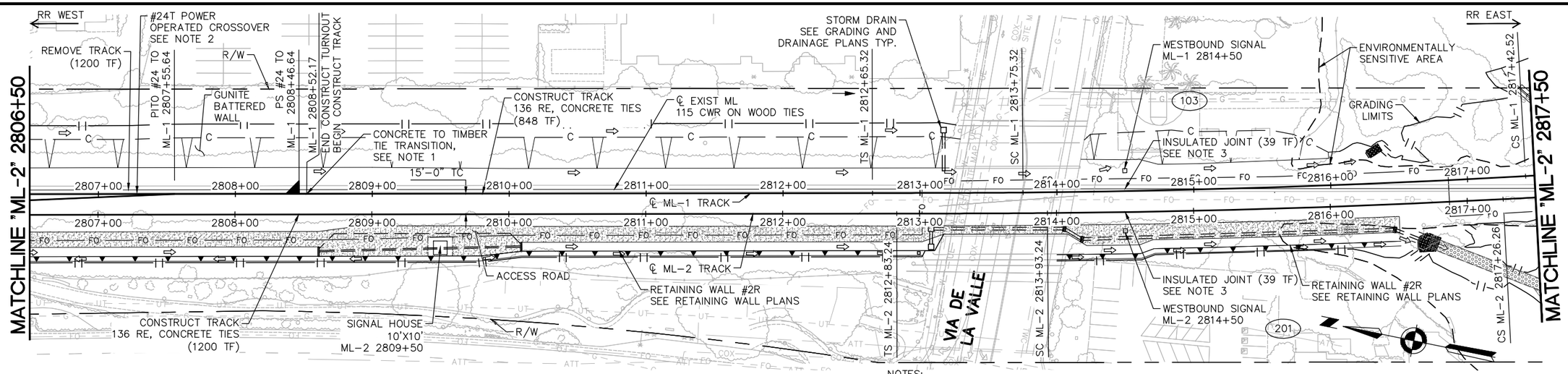
VERT: 1"=10'

SANDAG CONTRACT NO. 5001901

DRAWING NO. CT-203

SHEET NO. 24

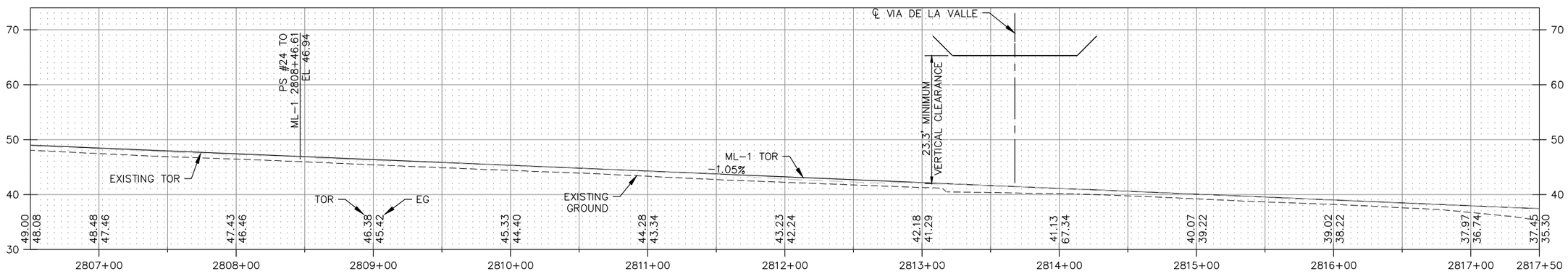


PLAN VIEW

NOTES:
1. INSTALL 24-10' TRANSITION TIES PER NCTD STD DWG NO ESD-2351-03.
2. INSTALL NO 24 CROSSOVER PER NCTD STD DWG NO ESD-2951.
3. INSTALL INSULATED JOINT PER NCTD STD DWG NO ESD-2504.

40' 0' 40' 80'
SCALE: 1"=40'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3



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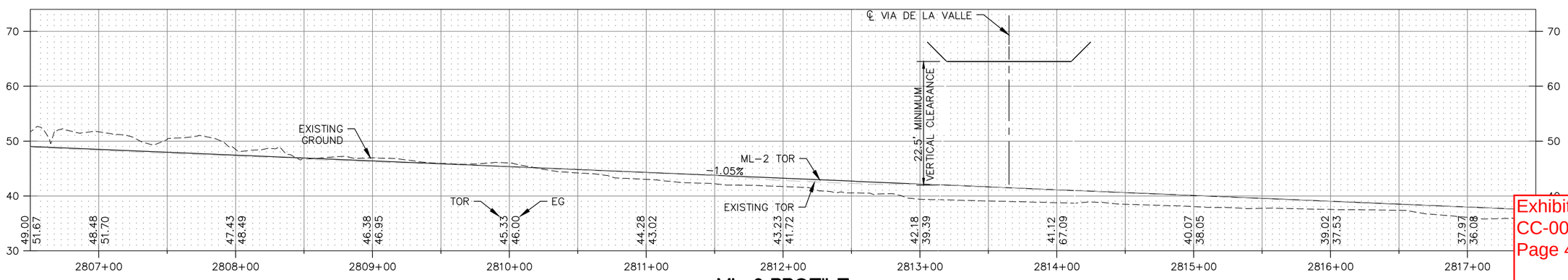

ML-2 PROFILE

Exhibit 7
CC-0001-17
Page 4 of 10

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Suite 510
San Diego, CA 92101

DESIGNED BY N. JEFFERY	DATE 12/16
DRAWN BY M. COOPER	12/16
CHECKED BY P. MCCOLL	12/16
SANDAG L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2806+50 TO ML-2 STA 2817+50

SCALE HORZ: 1"=40' VERT: 1"=10'
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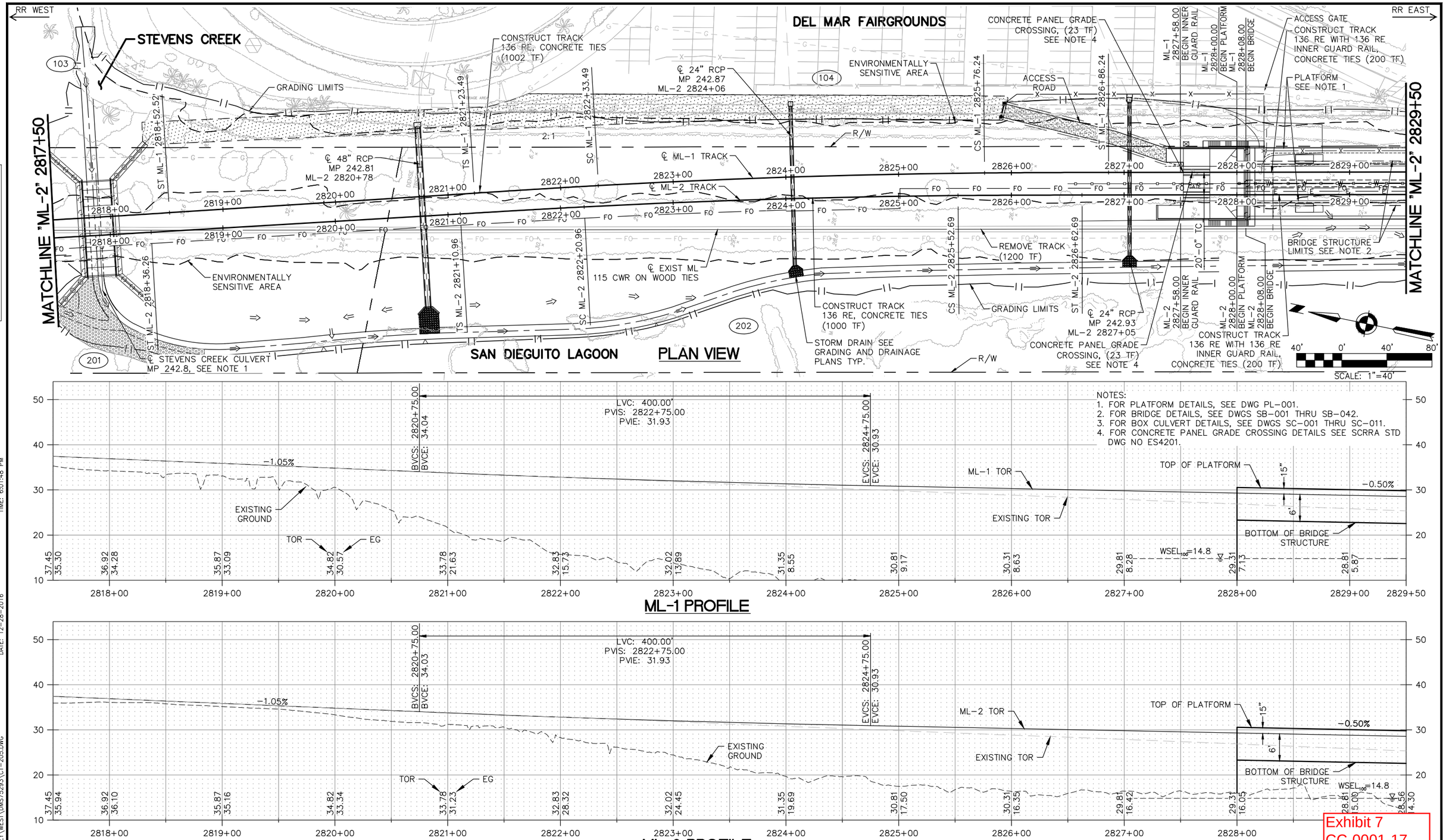
DRAWING NO. CT-204
SHEET NO. 25



ML-1 PROFILE

ML-2 PROFILE

NOTES:
1. FOR PLATFORM DETAILS, SEE DWG PL-001.
2. FOR BRIDGE DETAILS, SEE DWGS SB-001 THRU SB-042.
3. FOR BOX CULVERT DETAILS, SEE DWGS SC-001 THRU SC-011.
4. FOR CONCRETE PANEL GRADE CROSSING DETAILS SEE SCRRA STD DWG NO ES4201.

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401 B Street
Suite 510
San Diego, CA 92101

	DATE
DESIGNED BY N. JEFFERY	12/16
DRAWN BY M. COOPER	12/16
CHECKED BY P. MCCOLL	12/16
SANDAG L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

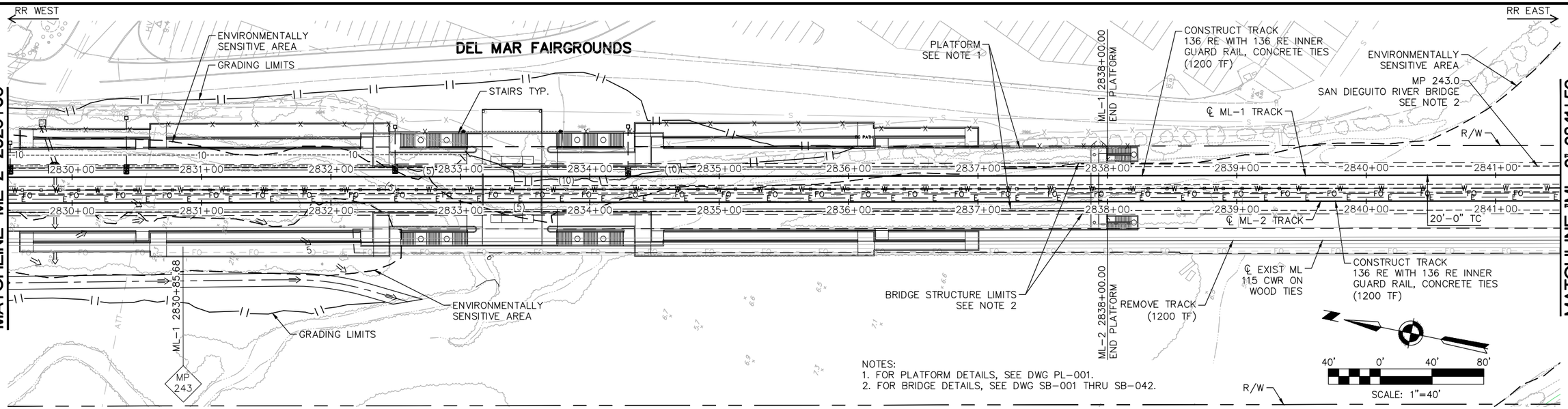
SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2817+50 TO ML-2 STA 2829+50

5001901

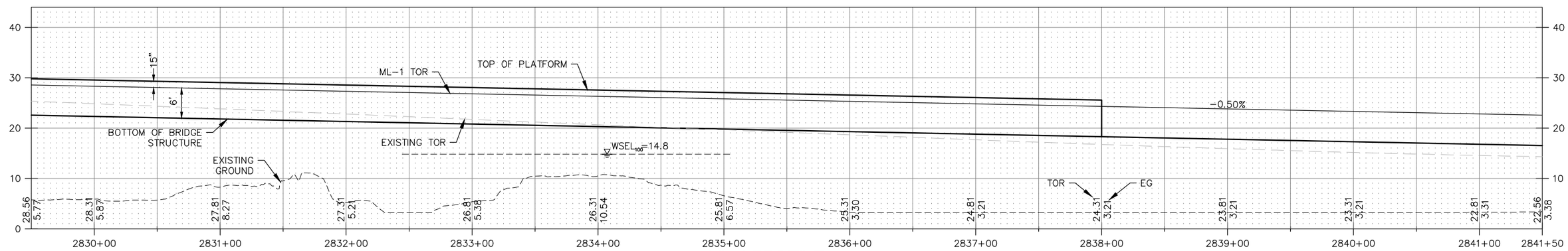
DRAWING NO. CT-205 | SHEET NO. 26

Exhibit 7
CC-0001-17
Page 5 of 10

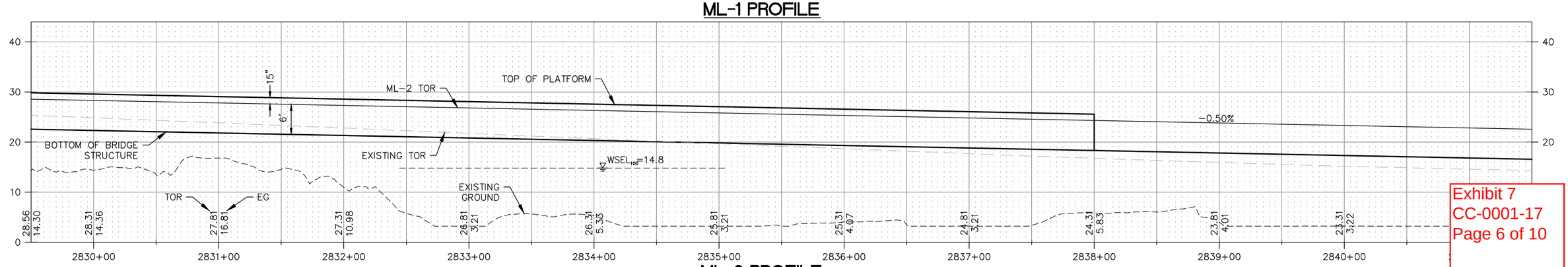


NOTES:
1. FOR PLATFORM DETAILS, SEE DWG PL-001.
2. FOR BRIDGE DETAILS, SEE DWG SB-001 THRU SB-042.

PLAN VIEW



ML-1 PROFILE



ML-2 PROFILE

Exhibit 7
CC-0001-17
Page 6 of 10

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

60% DESIGN - NOT FOR CONSTRUCTION

TIME: 2:52:07 PM
DATE: 12-28-2016
FILENAME: C:\CADDLIB\PW\AEDNEY\WEST\DM675293\CT-206.DWG

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

	DATE
DESIGNED BY N. JEFFERY	12/16
DRAWN BY M. COOPER	12/16
CHECKED BY P. MCCOLL	12/16
SANDAG L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2829+50 TO ML-2 STA 2841+50

SCALE
HORZ: 1"=40'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-206
SHEET NO. 27

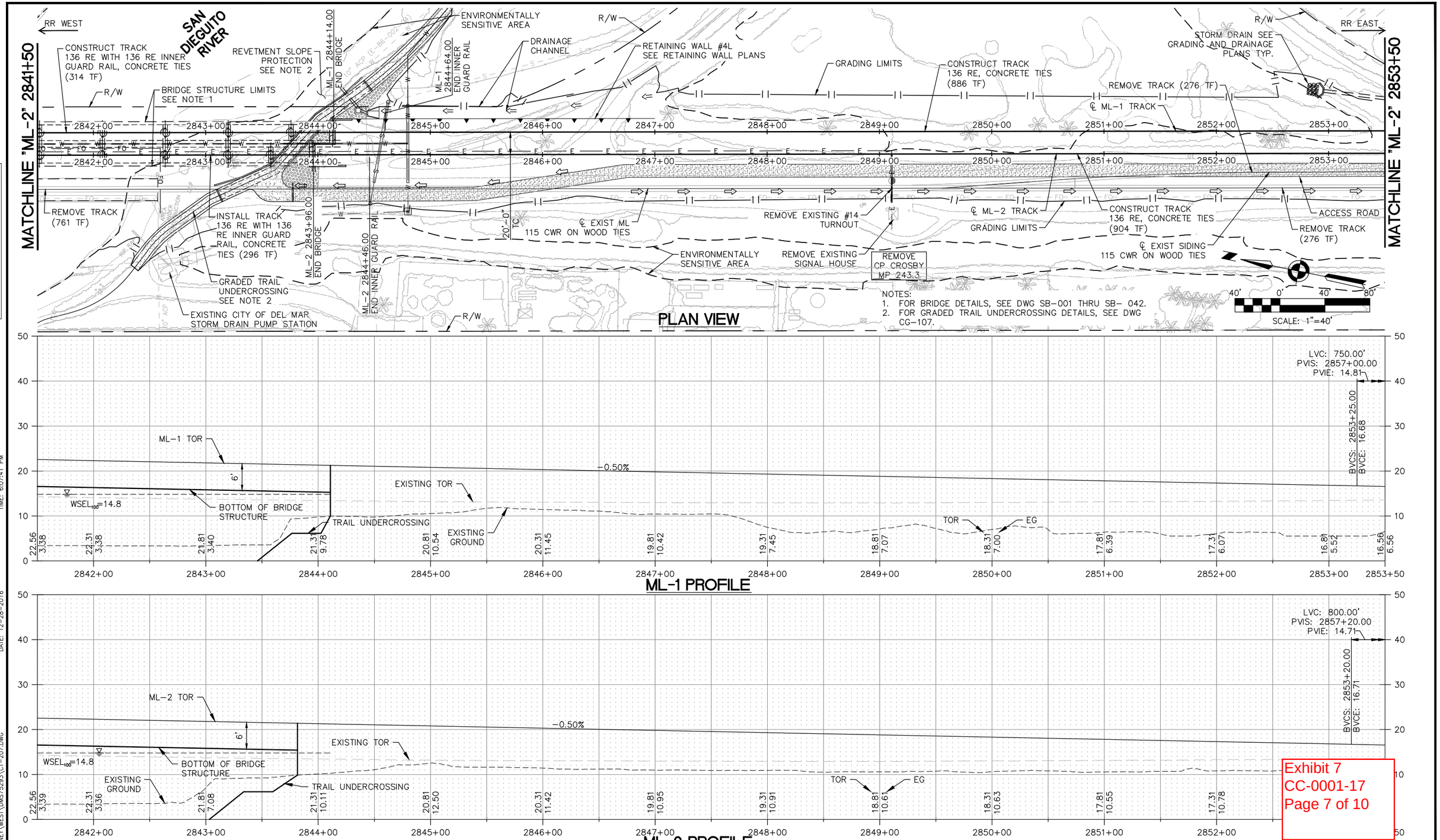


Exhibit 7
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Page 7 of 10

60% DESIGN – NOT FOR CONSTRUCTION

TIME: 6:07:41 PM
DATE: 12-28-2016
FILENAME: C:\CADDLIB\PW\AEDNEY\WEST\DMS75293\CT-207.DWG

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

DESIGNED BY N. JEFFERY	DATE 12/16	
DRAWN BY M. COOPER	12/16	
CHECKED BY P. MCCOLL	12/16	
SANDAG L. CULP	12/16	

SANDAG
NORTH COUNTY TRANSIT DISTRICT

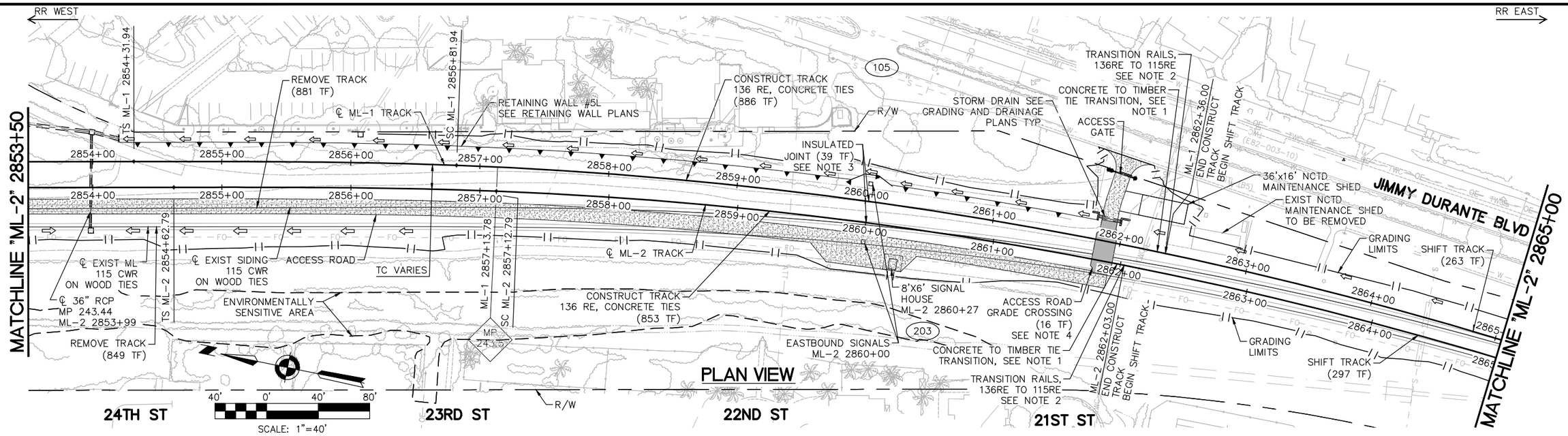
SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

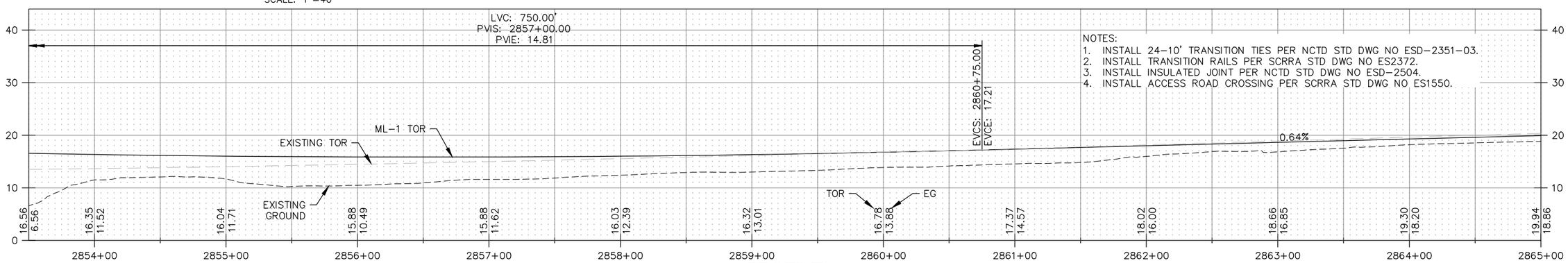
TRACK PLAN AND PROFILE
ML-2 STA 2841+50 TO ML-2 STA 2853+50

SCALE
HORZ: 1"=40'
VERT: 1"=10'

SANDAG CONTRACT NO. 5001901

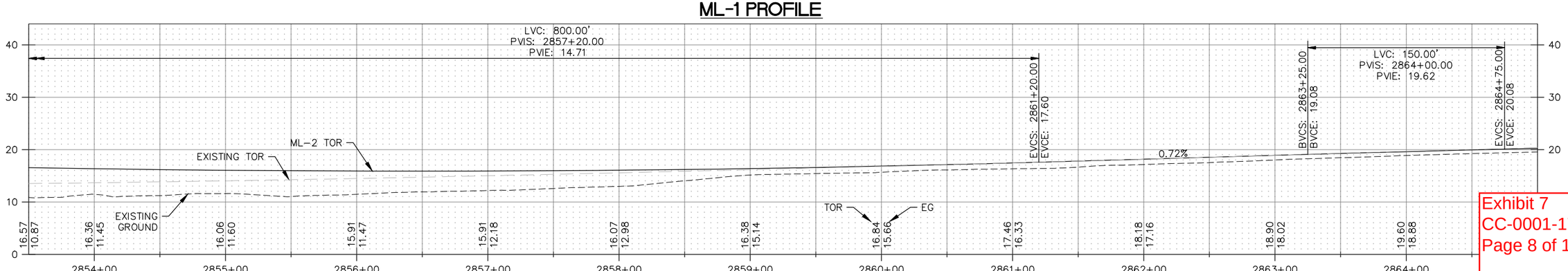
DRAWING NO. CT-207
SHEET NO. 28





ML-1 PROFILE

NOTES:
1. INSTALL 24-10' TRANSITION TIES PER NCTD STD DWG NO ESD-2351-03.
2. INSTALL TRANSITION RAILS PER SCRRA STD DWG NO ES2372.
3. INSTALL INSULATED JOINT PER NCTD STD DWG NO ESD-2504.
4. INSTALL ACCESS ROAD CROSSING PER SCRRA STD DWG NO ES1550.



ML-2 PROFILE

Exhibit 7
CC-0001-17
Page 8 of 10

60% DESIGN – NOT FOR CONSTRUCTION

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

TIME: 3:04:48 PM DATE: 12-28-2016

FILENAME: C:\CADDLIB\PW\AEDNEY\WEST\DMS75293\CT-208.DWG

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

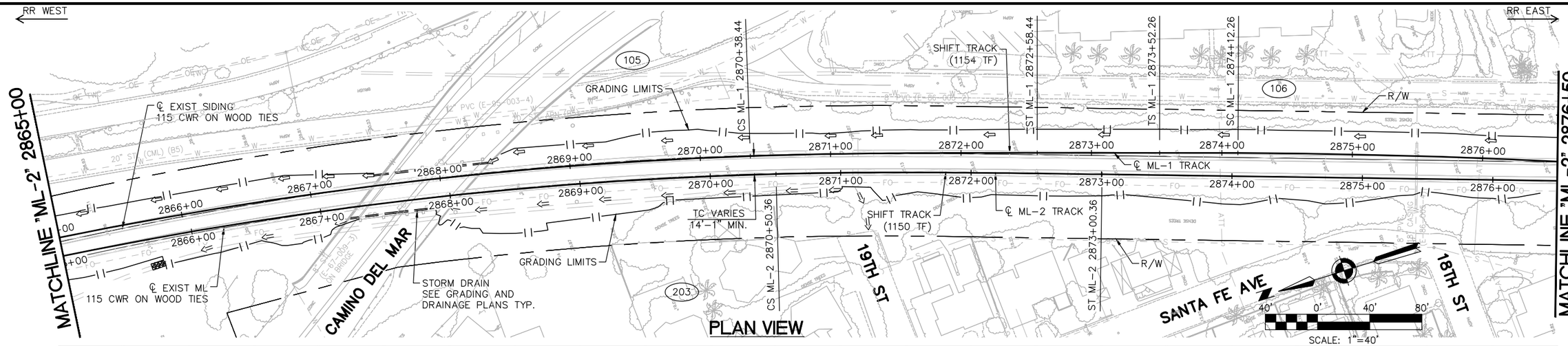
DESIGNED BY N. JEFFERY	DATE 12/16	
DRAWN BY M. COOPER	12/16	
CHECKED BY P. MCCOLL	12/16	
SANDAG L. CULP	12/16	

SANDAG
NORTH COUNTY TRANSIT DISTRICT

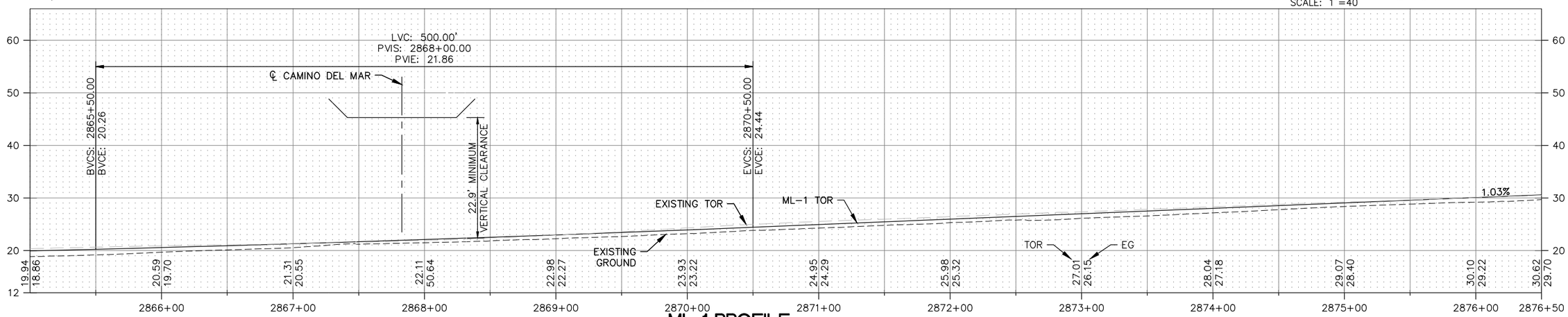
SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2853+50 TO ML-2 STA 2865+00

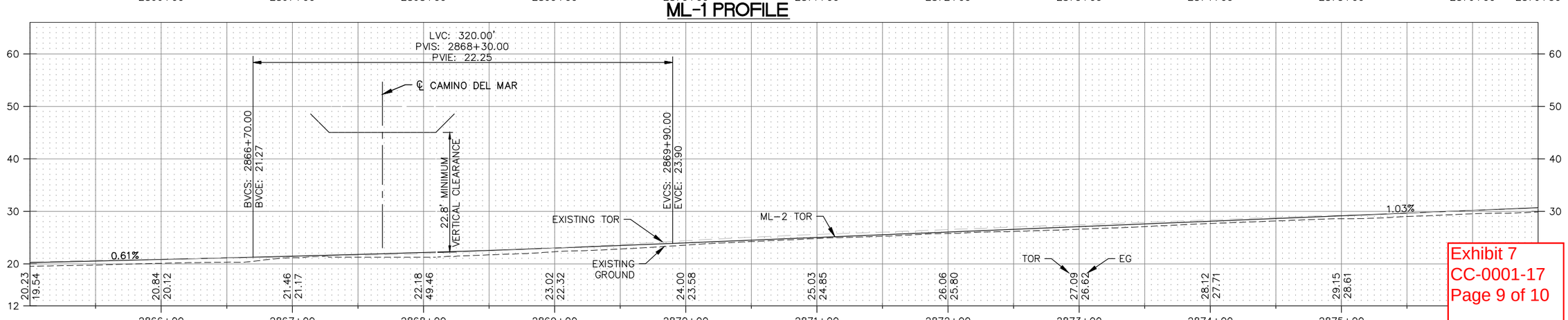
SCALE HORZ: 1"=40' VERT: 1"=10'
SANDAG CONTRACT NO. 5001901
DRAWING NO. CT-208
SHEET NO. 29



PLAN VIEW



ML-1 PROFILE



ML-2 PROFILE

Exhibit 7
CC-0001-17
Page 9 of 10

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

DATE: 12-28-2016 TIME: 3:01:35 PM

FILENAME: C:\CADDLIB\PW\AEDNEY\WEST\DMS75293\CT-209.DWG

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

	DATE
DESIGNED BY N. JEFFERY	12/16
DRAWN BY M. COOPER	12/16
CHECKED BY P. MCCOLL	12/16
SANDAG L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

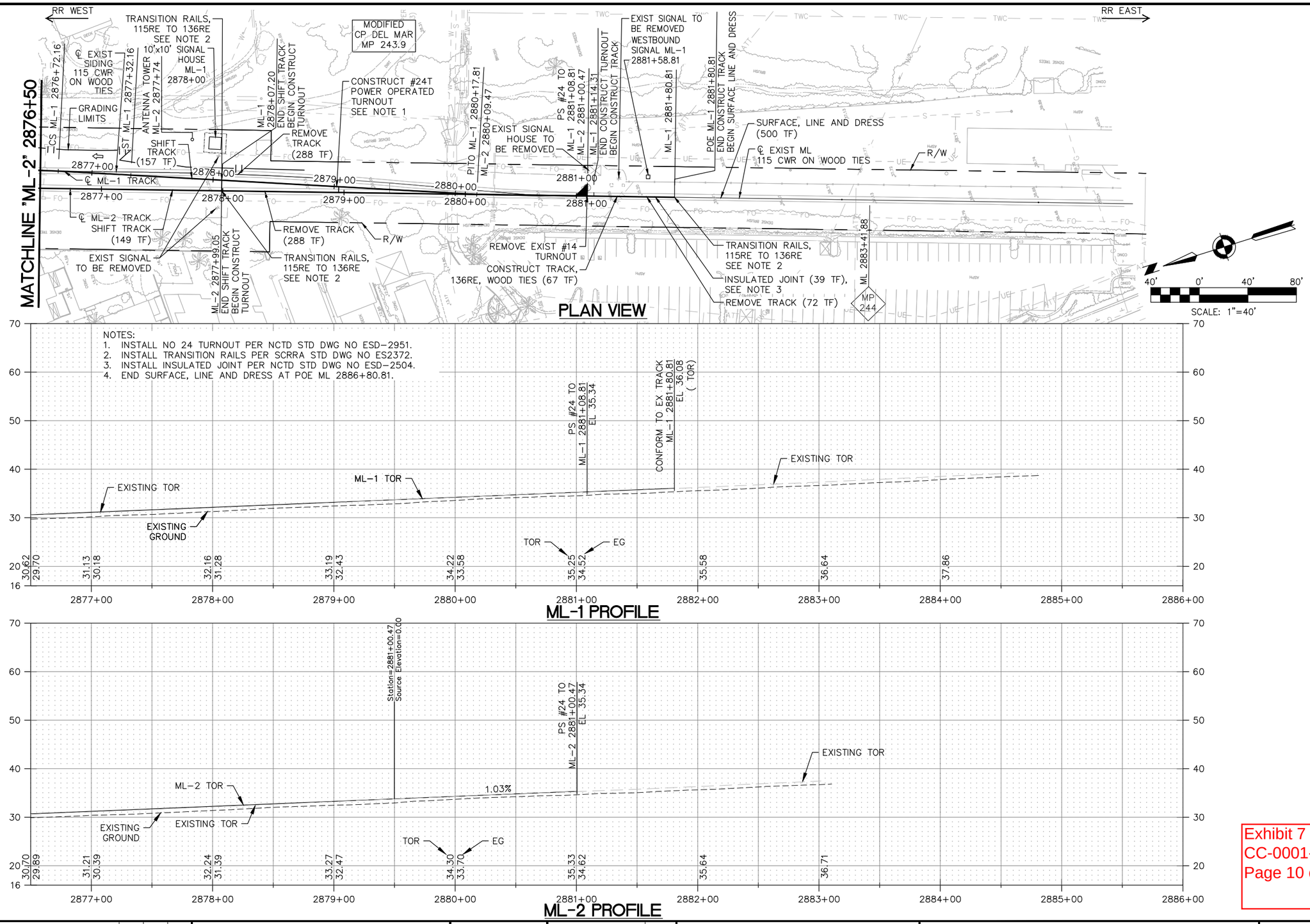
SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2865+00 TO ML-2 STA 2876+50

SCALE
HORZ: 1"=40'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-209
SHEET NO. 30



FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

DATE: 12-28-2016 TIME: 3:11:22 PM

FILENAME: C:\CADDLIB\PW\AEDNEY\WEST\DMS75293\CT-210.DWG

Exhibit 7
CC-0001-17
Page 10 of 10

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

		DATE
DESIGNED BY	N. JEFFERY	12/16
DRAWN BY	M. COOPER	12/16
CHECKED BY	P. MCCOLL	12/16
SANDAG	L. CULP	12/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK PLAN AND PROFILE
ML-2 STA 2876+50 TO ML-1 STA 2886+80.81

SCALE
HORZ: 1"=40'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-210
SHEET NO. 31

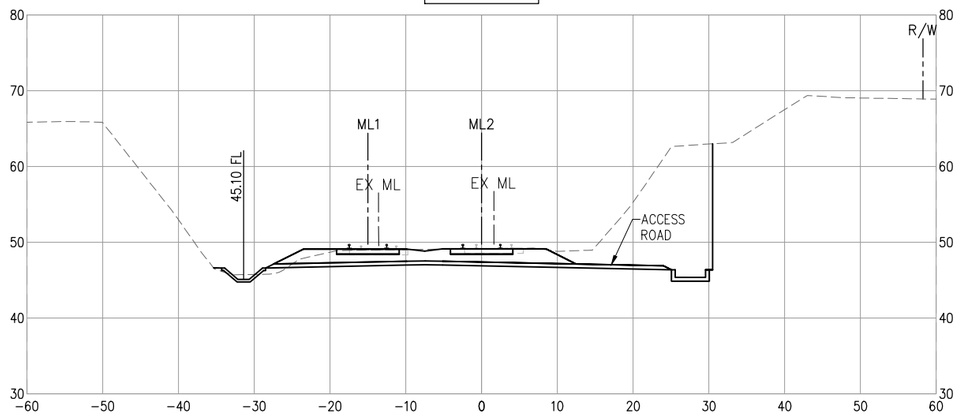
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

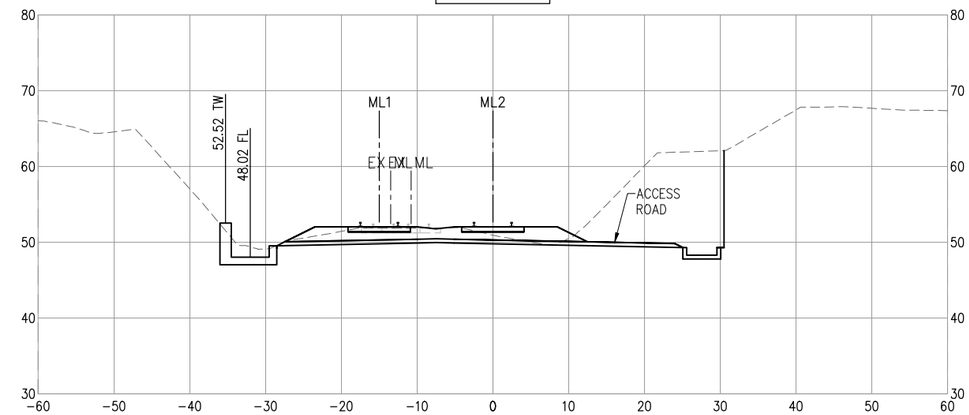
DATE: 03-30-2016 TIME: 3:27:28 PM

FILENAME: C:\CADDLIB\PW\MCCOOPER\WEST\DMS75293\CT-303.DWG

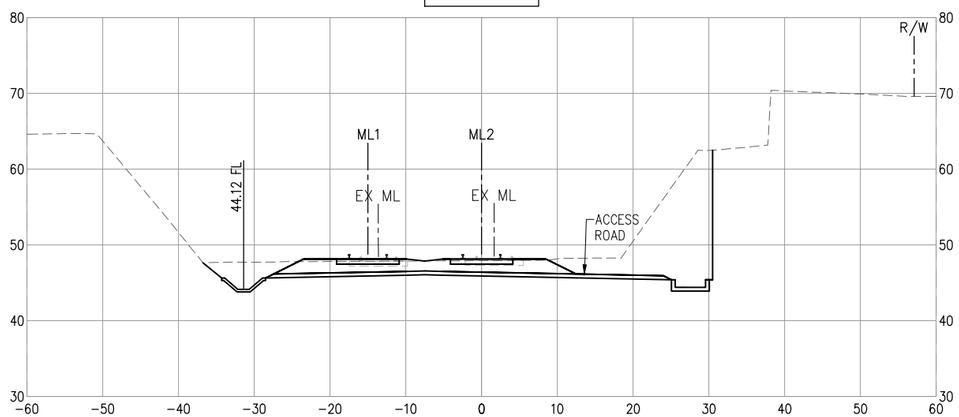
2785+00.00



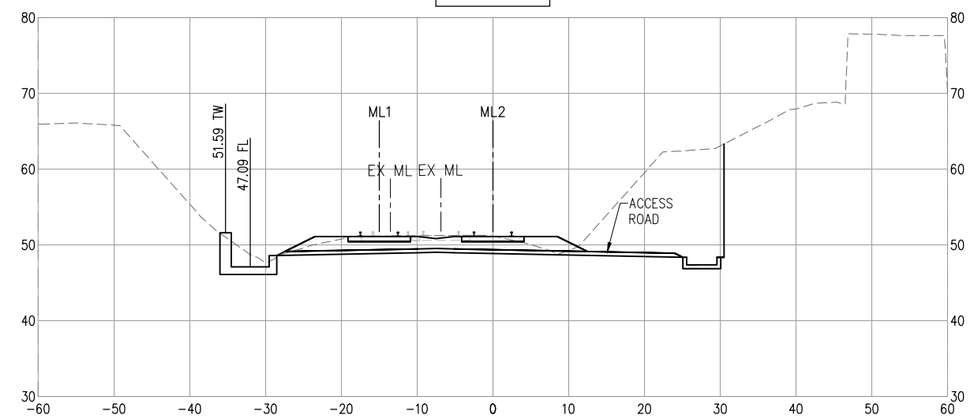
2788+00.00



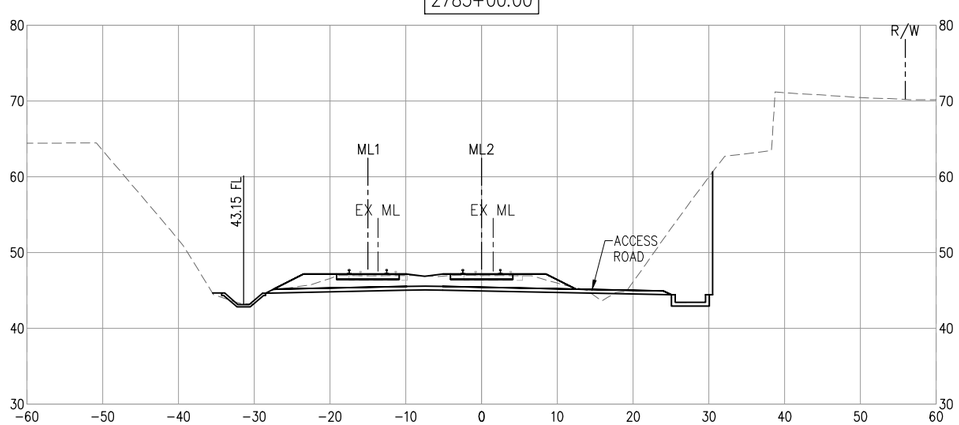
2784+00.00



2787+05.00



2783+00.00



2786+00.00

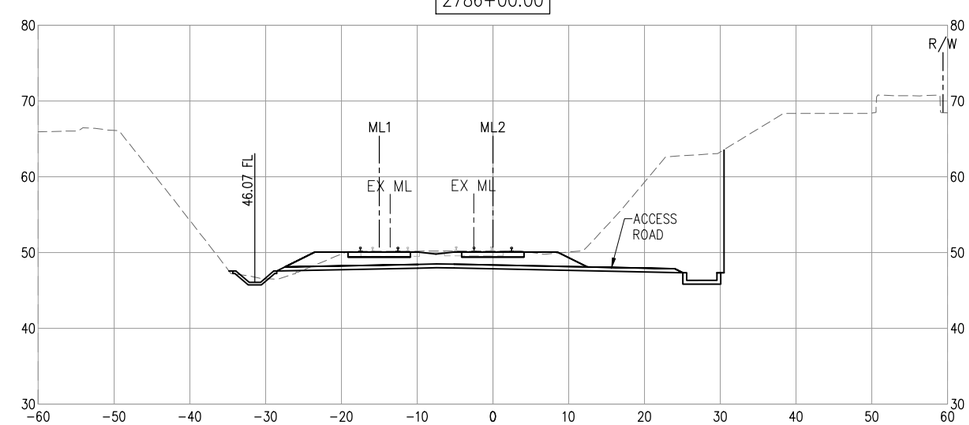


Exhibit 8
CC-0001-17
Page 1 of 6

10' 0' 10' 20'
SCALE: 1"=10'

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

DESIGNED BY	DATE
N. JEFFERY	03/16
DRAWN BY	
N. BRZEZINSKI	03/16
CHECKED BY	
G. SHAW	03/16
SANDAG	
L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK CROSS SECTIONS
ML-2 STA 2783+00.00 TO ML-2 STA 2788+00.00

SCALE
HORZ: 1"=10'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-303
SHEET NO. 34

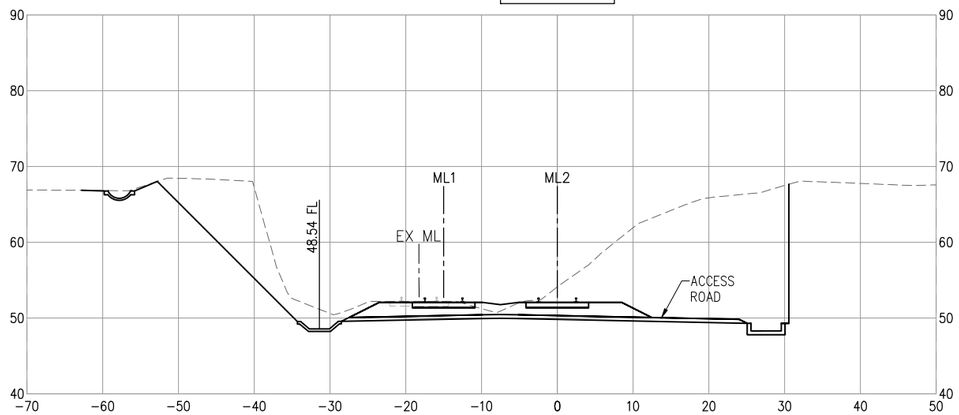
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

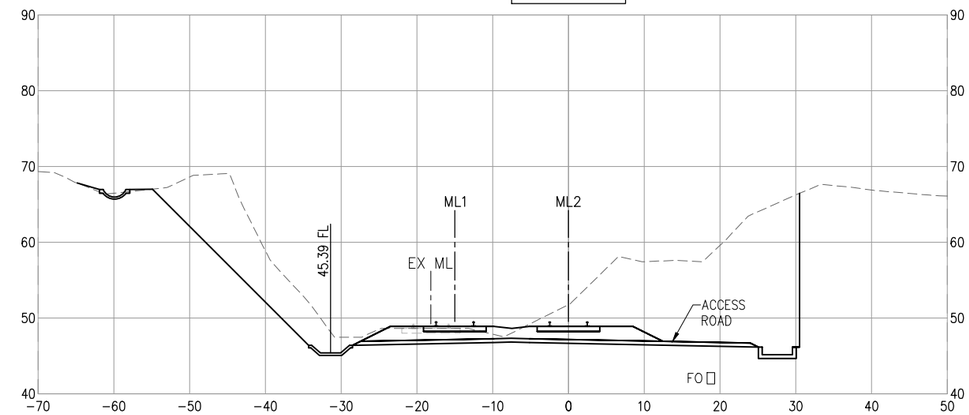
DATE: 03-30-2016 TIME: 3:29:01 PM

FILENAME: G:\CADDLIB\PW\MCCOOPER\WEST\DMS75293\CT-306.DWG

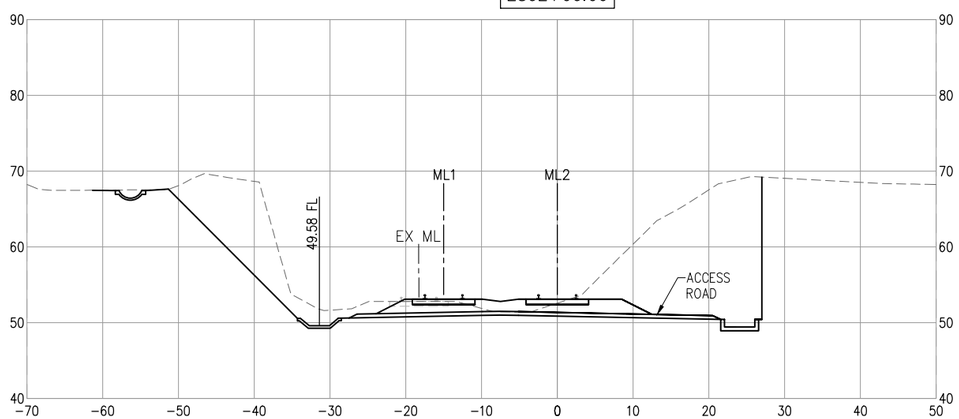
2803+00.00



2806+00.00



2802+00.00



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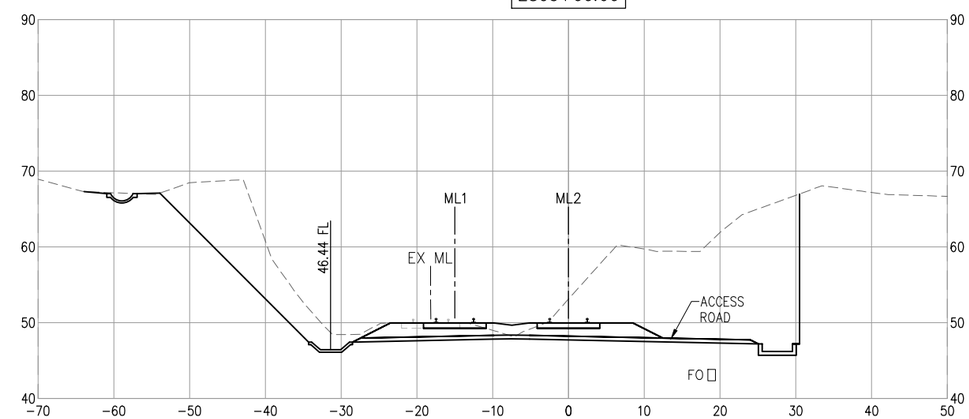

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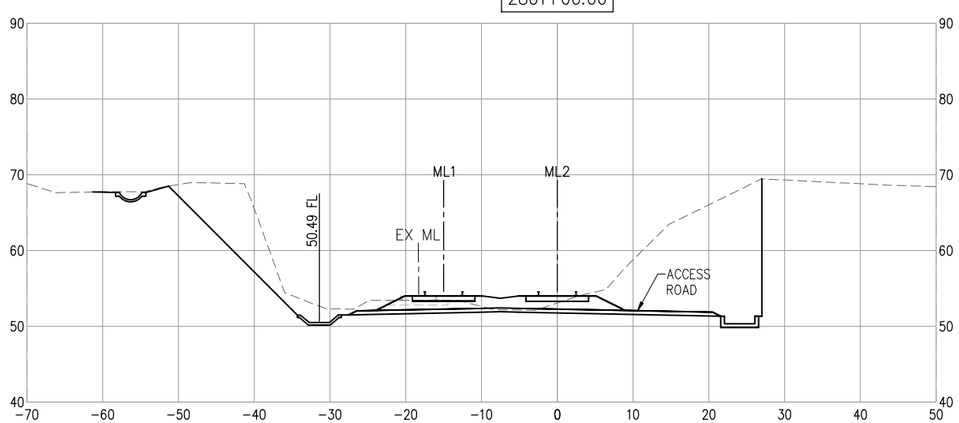

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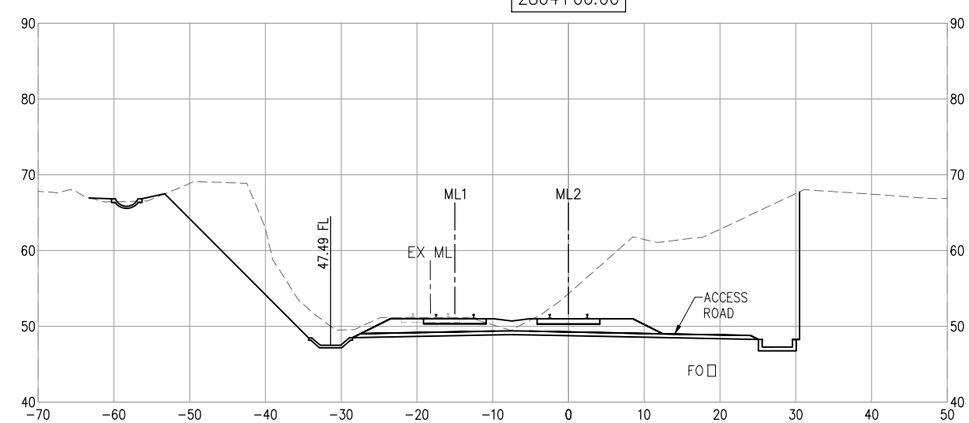


Exhibit 8
CC-0001-17
Page 2 of 6

10' 0' 10' 20'
SCALE: 1"=10'

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

DESIGNED BY	DATE
N. JEFFERY	03/16
DRAWN BY	
N. BRZEZINSKI	03/16
CHECKED BY	
G. SHAW	03/16
SANDAG	
L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK CROSS SECTIONS
ML-2 STA 2801+00.00 TO ML-2 STA 2806+00.00

SCALE
HORZ: 1"=10'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-306
SHEET NO. 37

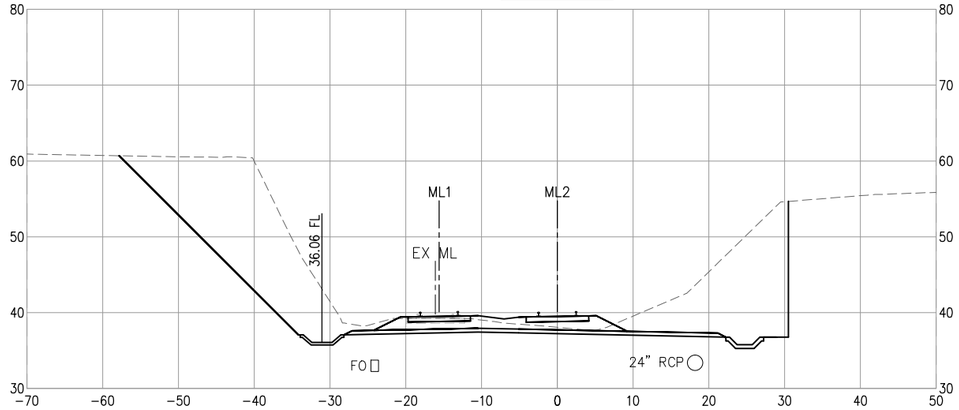
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

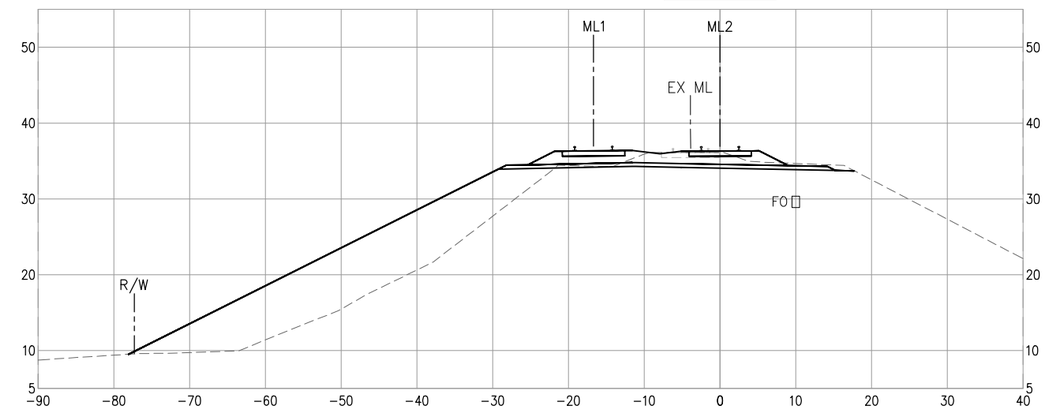
DATE: 03-30-2016 TIME: 3:30:03 PM

FILENAME: C:\CADDLIB\PW\MCCOOPER\WEST\DMS75293\CT-308.DWG

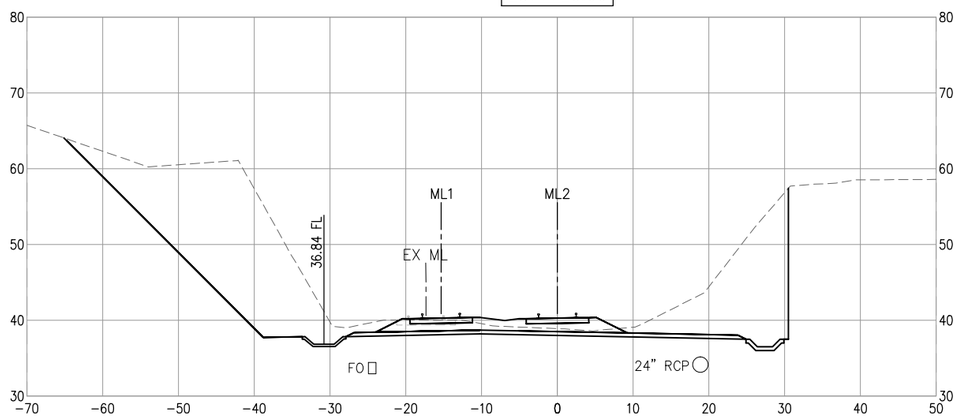
2815+00.00



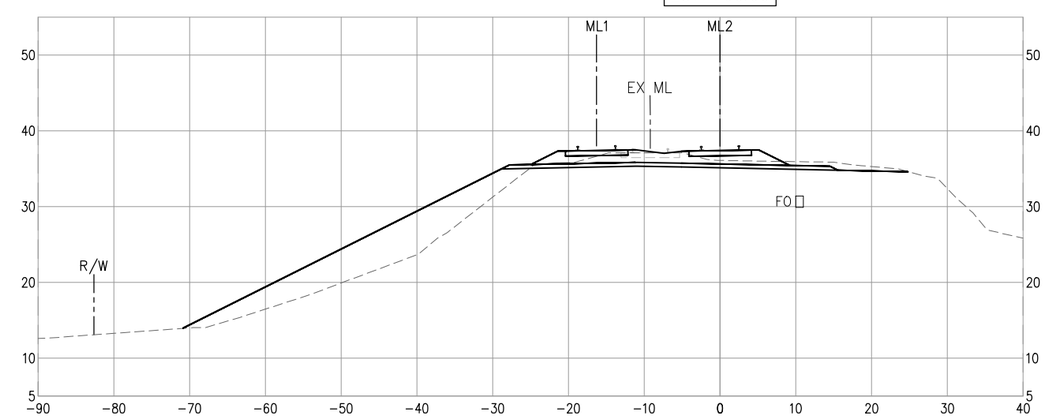
2818+00.00



2814+25.00



2817+00.00



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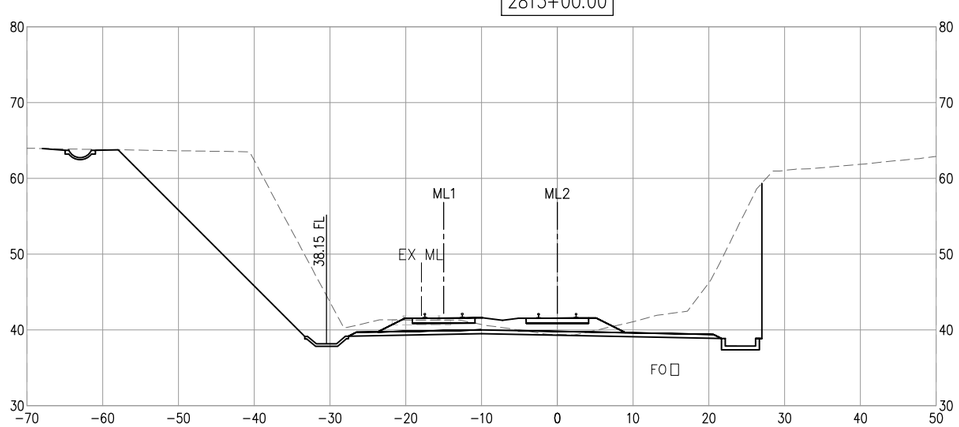


2816+00.00

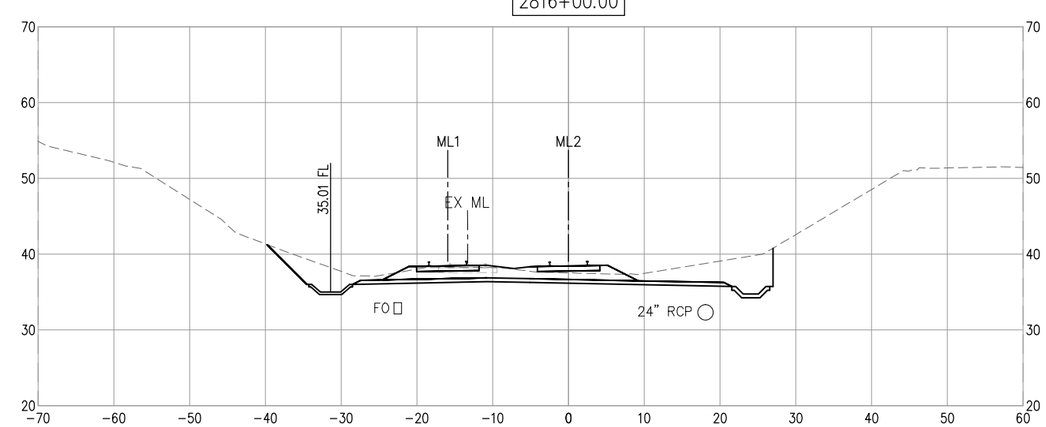


Exhibit 8
CC-0001-17
Page 3 of 6

10' 0' 10' 20'
SCALE: 1"=10'

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

		DATE
DESIGNED BY	N. JEFFERY	03/16
DRAWN BY	N. BRZEZINSKI	03/16
CHECKED BY	G. SHAW	03/16
SANDAG	L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK CROSS SECTIONS
ML-2 STA 2813+00.00 TO ML-2 STA 2818+00.00

SCALE
HORZ: 1"=10'
VERT: 1'=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-308
SHEET NO. 39

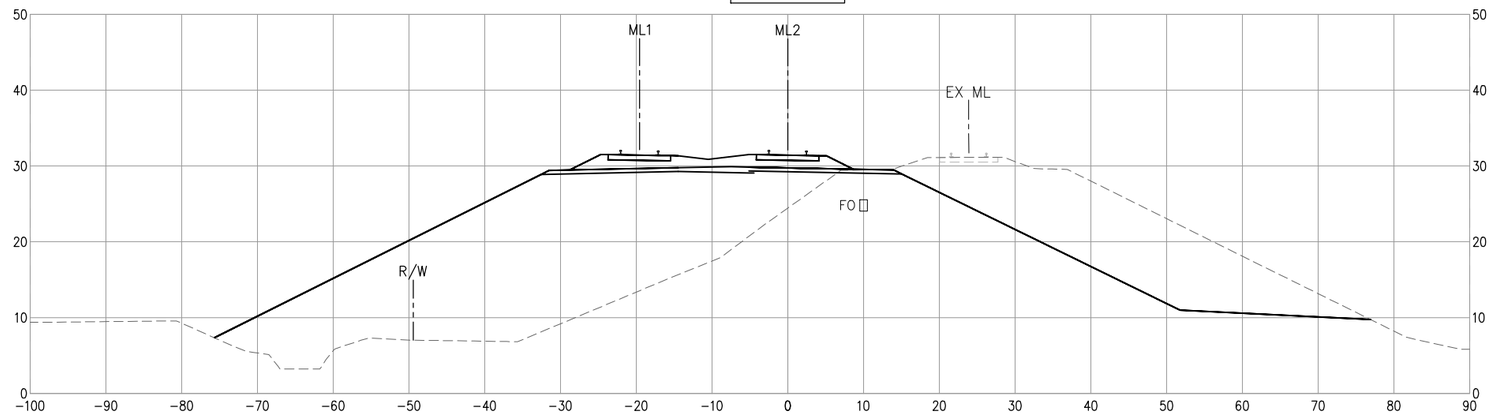
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

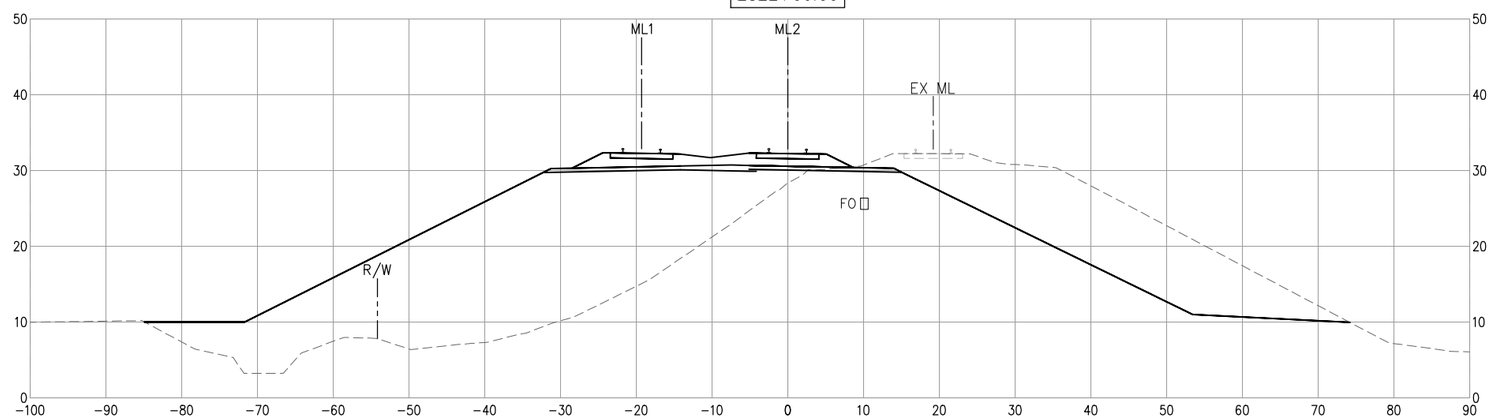
DATE: 03-30-2016 TIME: 3:31:05 PM

FILENAME: C:\CADDLIB\PW\MCCOOPER\WEST\DMS75293\CT-310.DWG

2823+00.00



2822+00.00



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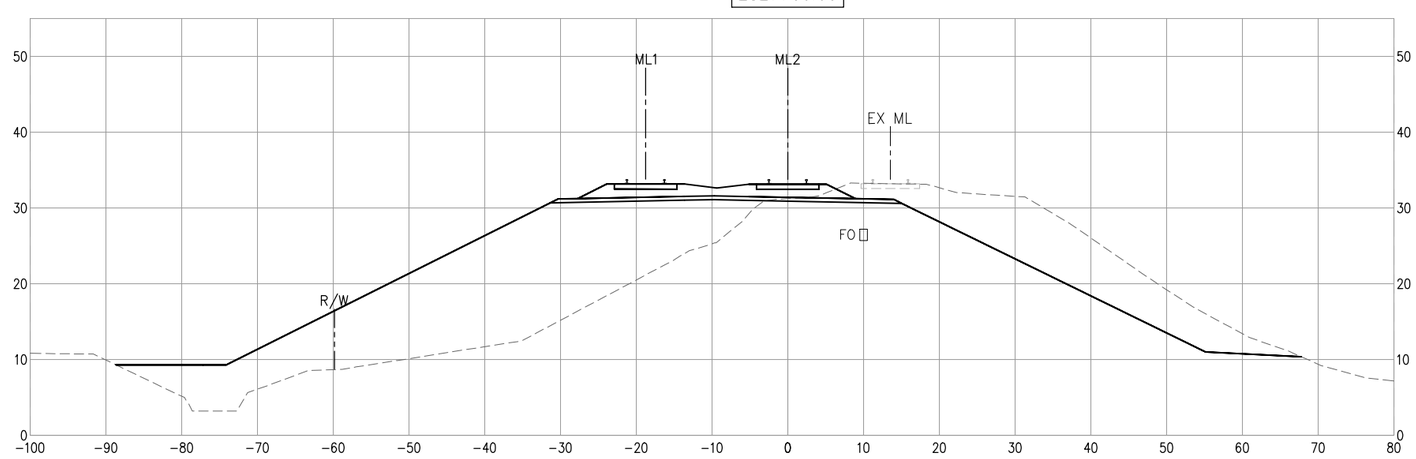

Exhibit 8
CC-0001-17
Page 4 of 6

10' 0' 10' 20'
SCALE: 1"=10'

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

		DATE
DESIGNED BY	N. JEFFERY	03/16
DRAWN BY	N. BRZEZINSKI	03/16
CHECKED BY	G. SHAW	03/16
SANDAG	L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK CROSS SECTIONS
ML-2 STA 2821+00.00 TO ML-2 STA 2823+00.00

SCALE
HORZ: 1"=10'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-310
SHEET NO. 41

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

DATE: 03-30-2016 TIME: 3:32:06 PM

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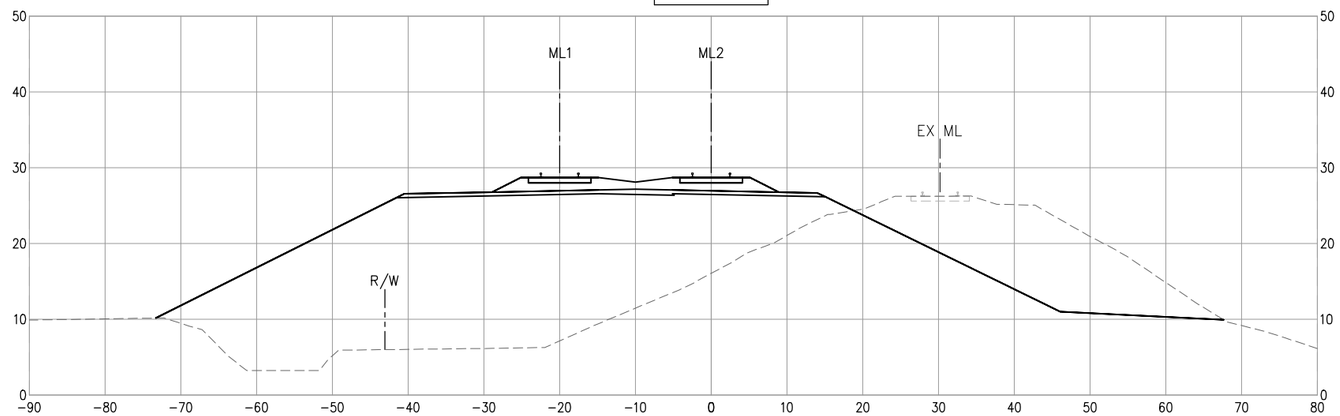

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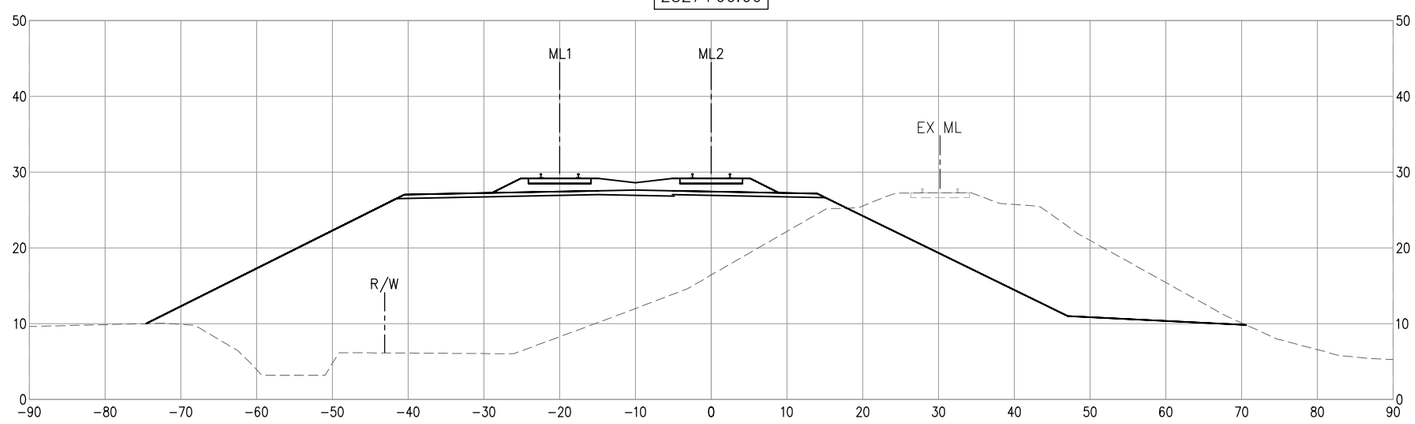

Exhibit 8
CC-0001-17
Page 5 of 6

10' 0' 10' 20'
SCALE: 1"=10'

NO.	DATE	REVISIONS	BY	CHK	APRV

HNTB
401 B Street
Suite 510
San Diego, CA 92101

	DATE
DESIGNED BY N. JEFFERY	03/16
DRAWN BY N. BRZEZINSKI	03/16
CHECKED BY G. SHAW	03/16
SANDAG L. CULP	03/16

SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK CROSS SECTIONS
ML-2 STA 2827+00.00 TO ML-2 STA 2828+00.00

SCALE
HORZ: 1"=10'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-312
SHEET NO. 43

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

60% DESIGN – NOT FOR CONSTRUCTION

DATE: 03-30-2016 TIME: 3:34:15 PM

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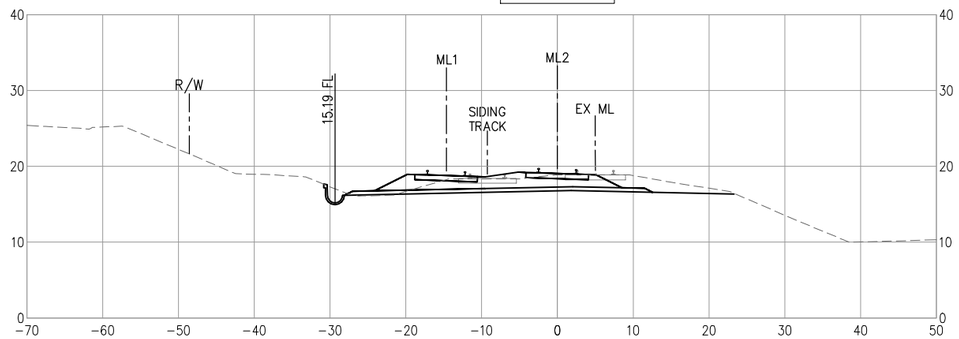

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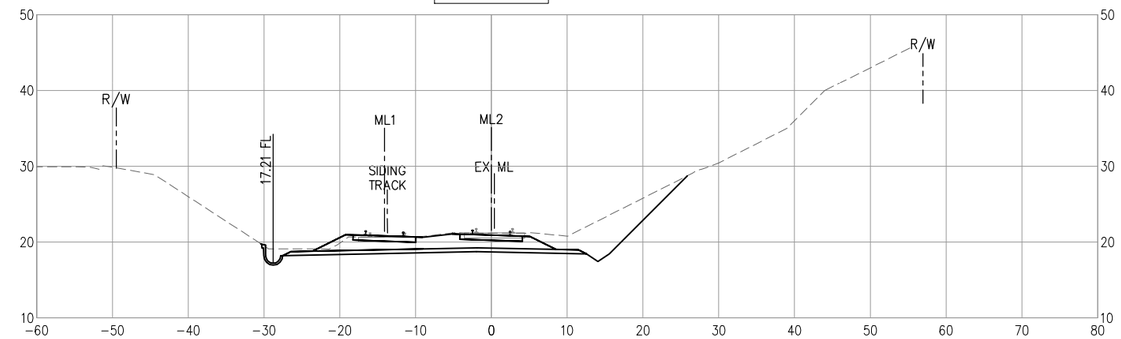

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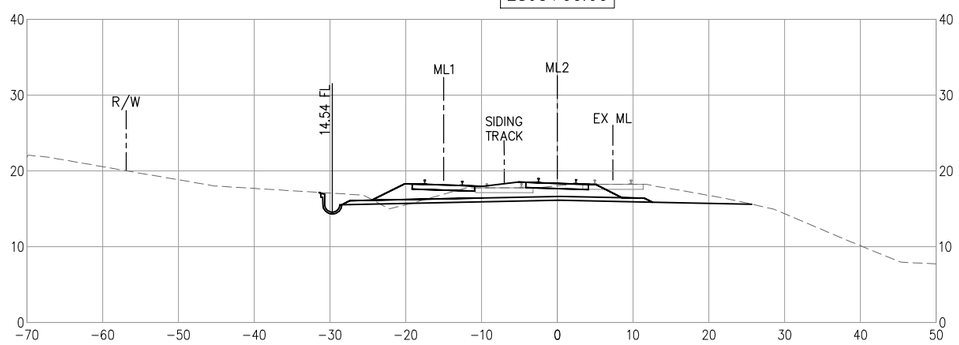

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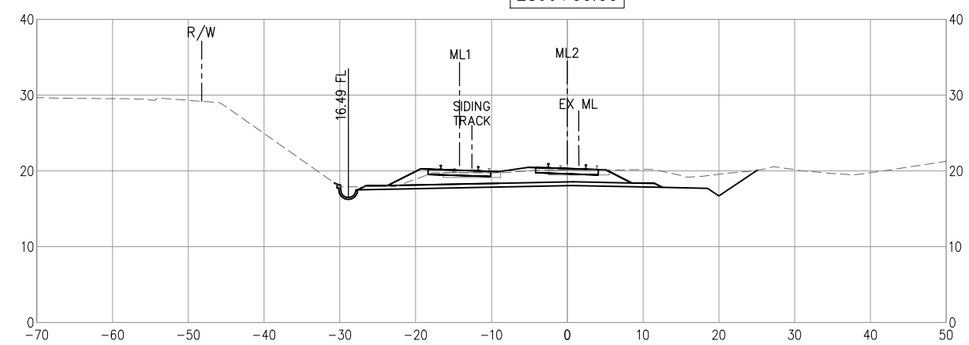

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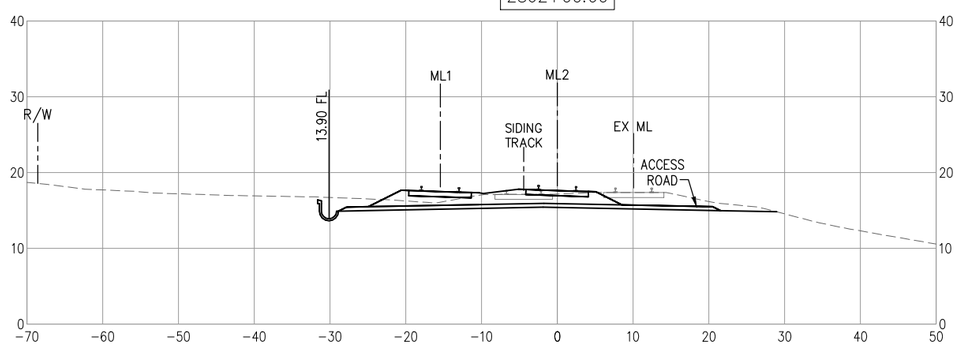

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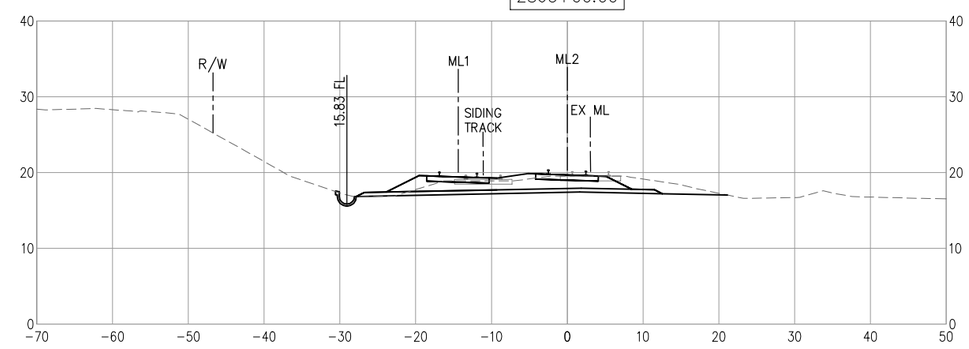

Exhibit 8
CC-0001-17
Page 6 of 6

10' 0' 10' 20'
SCALE: 1"=10'

NO.	DATE	REVISIONS	BY	CHK	APRV

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SANDAG
NORTH COUNTY TRANSIT DISTRICT

SAN DIEGUITO RIVER BRIDGE REPLACEMENT, DOUBLE TRACK AND SPECIAL EVENTS PLATFORM

TRACK CROSS SECTIONS
ML-2 STA 2862+00.00 TO ML-2 STA 2867+00.00

SCALE
HORZ: 1"=10'
VERT: 1"=10'

SANDAG CONTRACT NO.
5001901

DRAWING NO. CT-316
SHEET NO. 47

I:\PROJECTS\D\DEA\DEA-04.09_SDRBridge\Map\BIO\RestorationPlan\Fig2_AerialMap.mxd HNT-06.07 11/02/16 -CL

Aerial Photo

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 200 Feet

Exhibit 9
CC-0001-17

I:\PROJECTS\D\DEA\DEA-04.09_SDRBridge\Map\BIO\CCC\Fig4a_CoastalWetlands.mxd DEA-04-09 05/09/16 -CL

CCC Wetlands

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Exhibit 10
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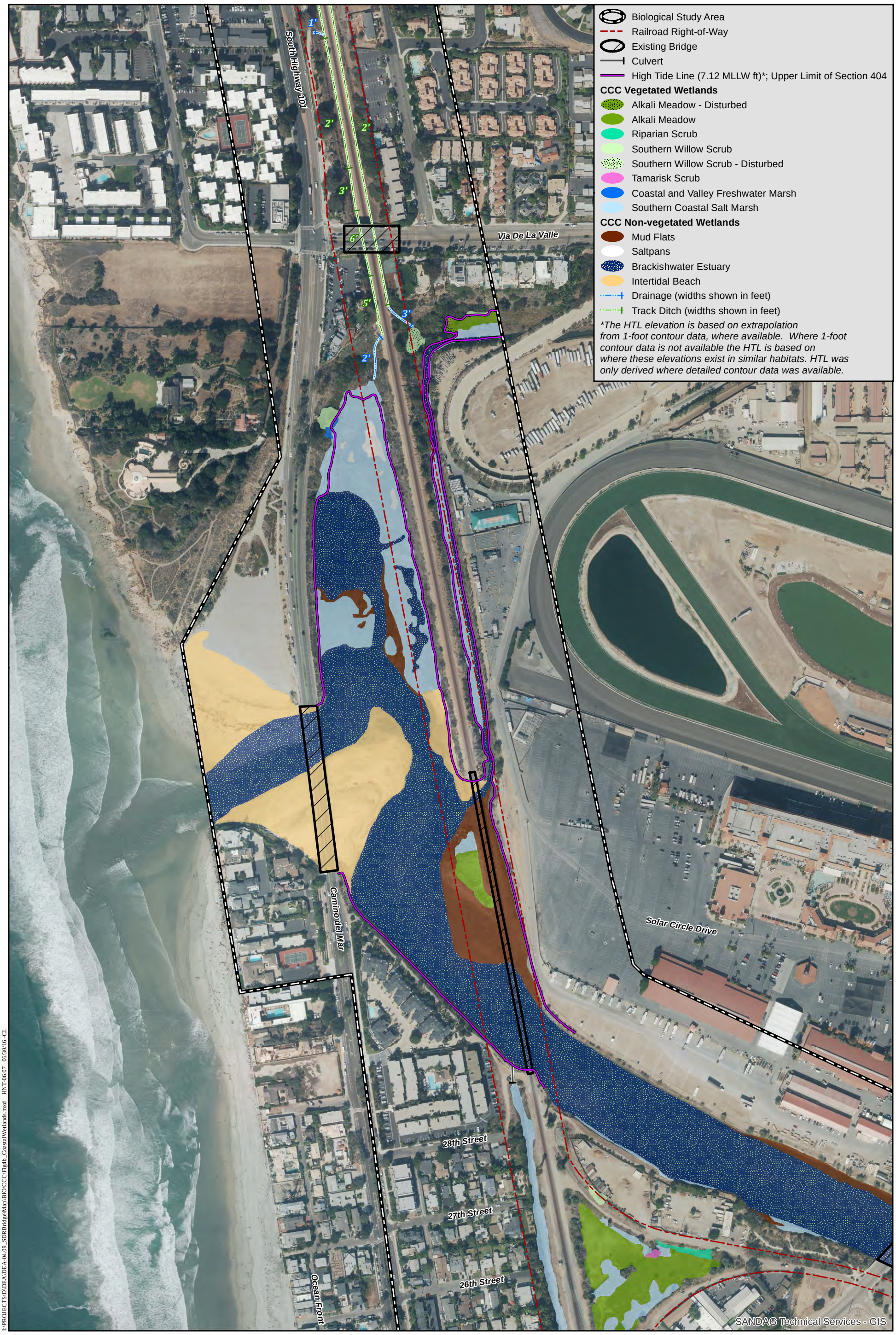
Page 1 of 3



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CCC Wetlands

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Exhibit 10
CC-0001-17
Page 2 of 3

I:\PROJECTS\D\DEA\DEA-04.09_SDRBridge\Map\BIO\CCC\Fig4c_CoastalWetlands.mxd HNT-06.07 05/09/16 -CL

CCC Wetlands

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Exhibit 10
CC-0001-17
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Direct Effects to CCC Wetlands

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Exhibit 11
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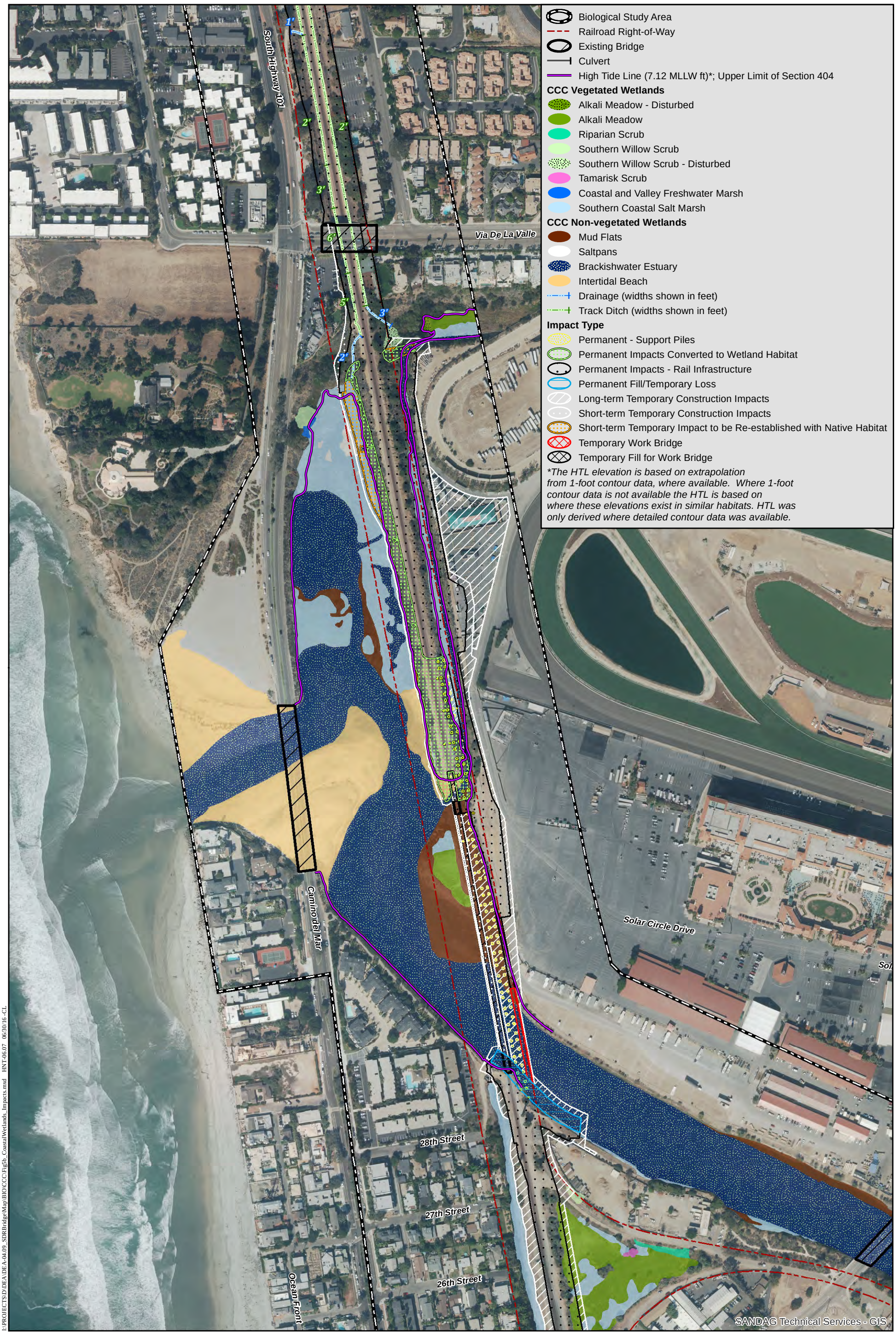
Page 1 of 3



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Direct Effects to CCC Wetlands

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Exhibit 11
CC-0001-17
Page 2 of 3

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Direct Effects to CCC Wetlands

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Exhibit 11
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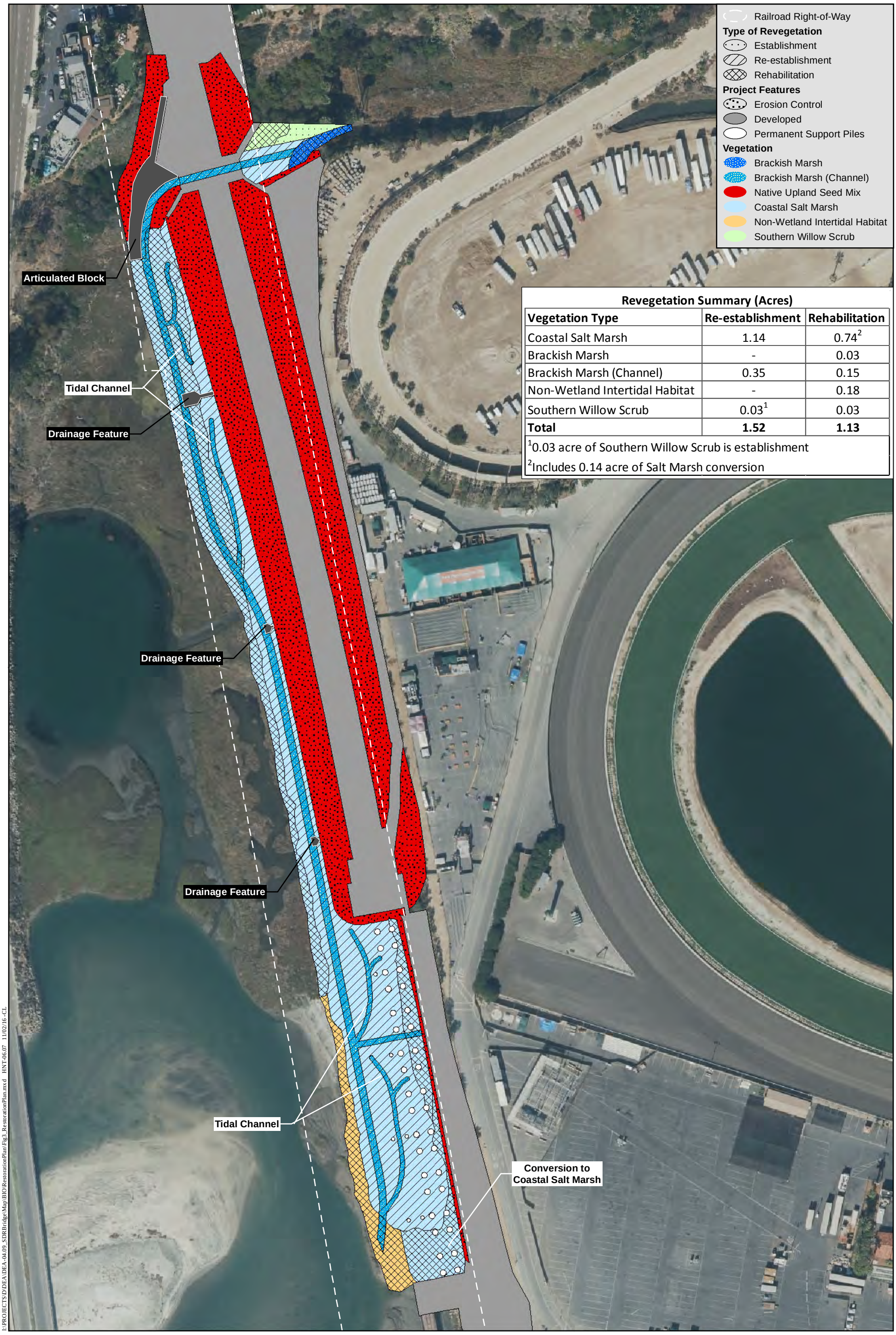

Revegetation Summary (Acres)

Vegetation Type	Re-establishment	Rehabilitation
Coastal Salt Marsh	1.14	0.74[2]
Brackish Marsh	-	0.03
Brackish Marsh (Channel)	0.35	0.15
Non-Wetland Intertidal Habitat	-	0.18
Southern Willow Scrub	0.03[1]	0.03
Total	**1.52**	**1.13**

[1]0.03 acre of Southern Willow Scrub is establishment

[2]Includes 0.14 acre of Salt Marsh conversion

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Revegetation Plan

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 120 Feet

Figure 3

Exhibit 12
CC-0001-17

Table 1 San Dieguito Lagoon Double Track CCC Coastal Wetland Mitigation Proposal (acres)					
Coastal Wetland Resource	**Impacts**	**Onsite Revegetation and Offsite Mitigation**			
		Onsite Reestablishment[1]	**Onsite Rehabilitation**	**W-19 Establishment**	**Total**
Permanent Impacts					
Vegetated Wetlands	0.88	1.17	--	--	1.17
Tidal Unvegetated Wetlands	0.69	0.35	--	0.05[2]	0.40
Drainages and Track Ditches	0.63	--	--	0.63[2]	0.63
Subtotal	**2.20**	**1.52**	**--**	**0.68[2]**	**2.20**
Long-term Temporary Impacts					
Vegetated Wetlands	0.38	--	0.52[4,5]	0.38[3]	0.90
Tidal Unvegetated Wetlands	1.27	--	1.13[4]	1.27[3]	2.40
Drainages and Track Ditches	0	--	--	--	--
Subtotal	**1.65**	**--**	**1.65**	**1.65[3]**	**3.30**
Temporary Impacts[6]					
Vegetated Wetlands	0.60	--	0.60[5]	--	0.60
Tidal Unvegetated Wetlands	0.95	--	0.95	--	0.95
Drainages and Track Ditches	0	--	0	--	--
Subtotal	**1.55**	**--**	**1.55**	**--**	**1.55**
TOTAL	**5.40**	**1.52**	**3.20**	**2.33**	**7.05**

[1] Included as Re-establishment in the On-site Revegetation Plan as a result of removal of 420 feet of the existing railroad berm resulting in a longer bridge.

[2] Establishment to ensure no net loss of jurisdictional area requires 0.68 acres at W-19 to cover the difference between onsite establishment and permanent loss.

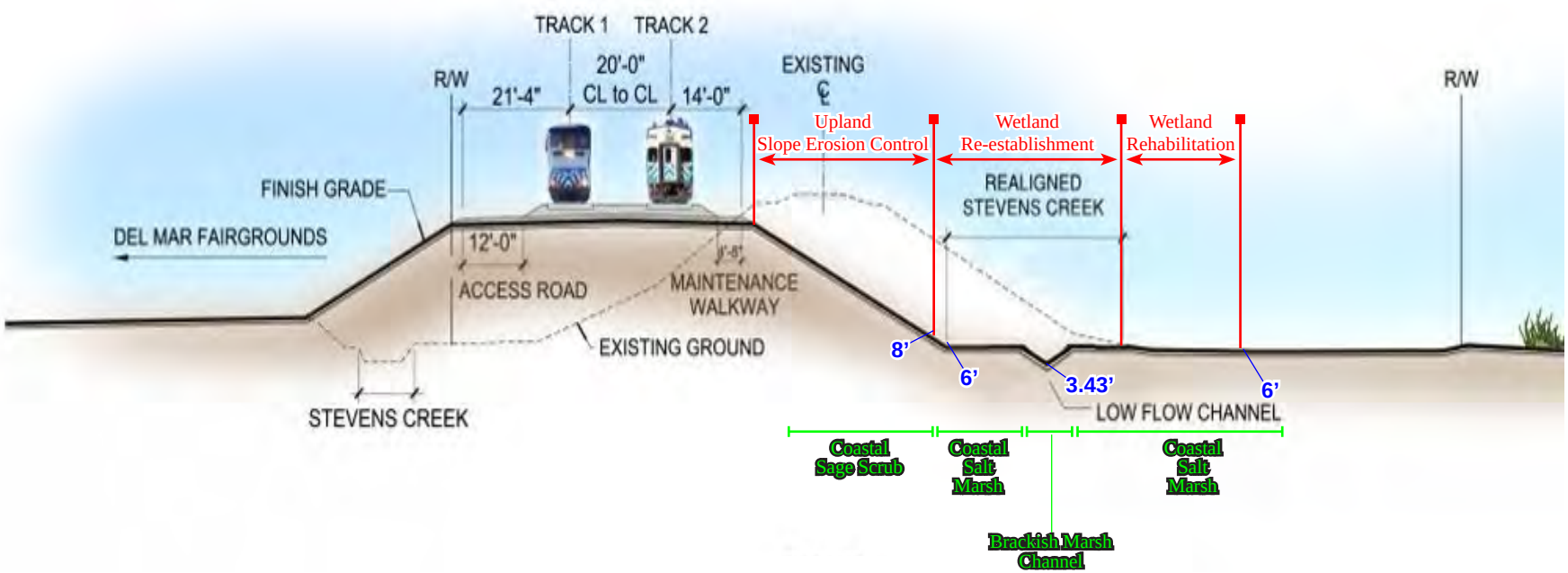
[3] Mitigation for long-term temporary impacts is provided at a ratio of 1:1. As the W-19 Restoration Project progresses toward meeting success criteria in advance of project impacts, it is proposed that a 10 percentage points reduction would occur in the long-term temporary mitigation for each year that success criteria is met in advance of project impacts.

[4] 0.14 acre of open water will be rehabilitated to wetland habitat per the On-site Revegetation Plan.

[5] Most of this area is included as rehabilitation of wetlands in the On-site Revegetation Plan. Temporary impacts to unvegetated resources will be returned to their original contours after construction and don't require revegetation.

[6] Temporary impacts include both short-term temporary and permanent fill/temporary impact (buried rock).

Exhibit 13
CC-0001-17



LEGEND	
RED	Revegetation Type
GREEN	Habitat Type

Source: HNTB 2016

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Conceptual Cross Section

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

Figure 4

HELIX
Environmental Planning

Exhibit 14
CC-0001-17

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Direct Effects to Vegetation Communities/Habitat Types and Special Status Species

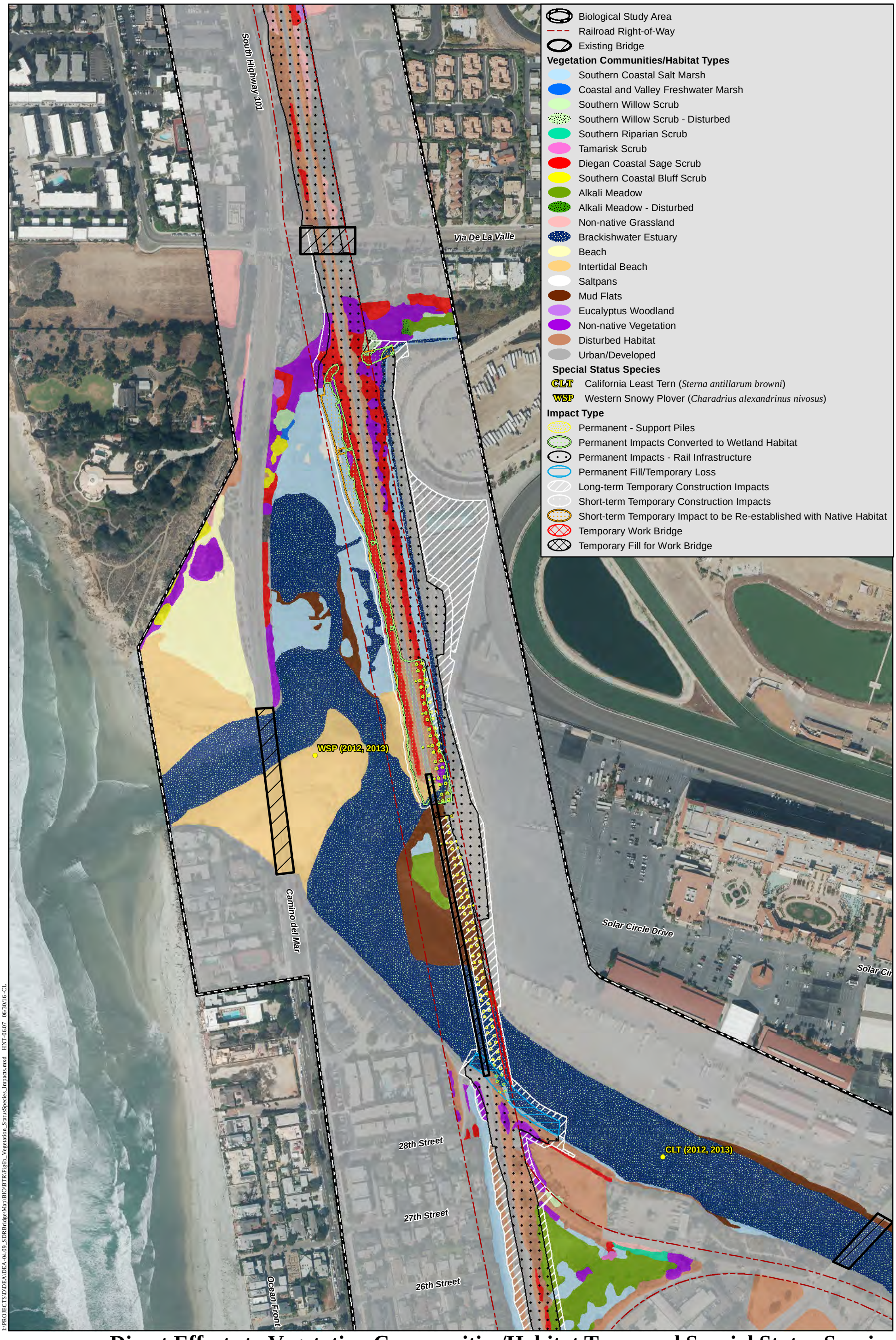
SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Figure 6a

Exhibit 15
CC-0001-17
Page 1 of 3



Direct Effects to Vegetation Communities/Habitat Types and Special Status Species

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Figure 6b

Exhibit 15
CC-0001-17
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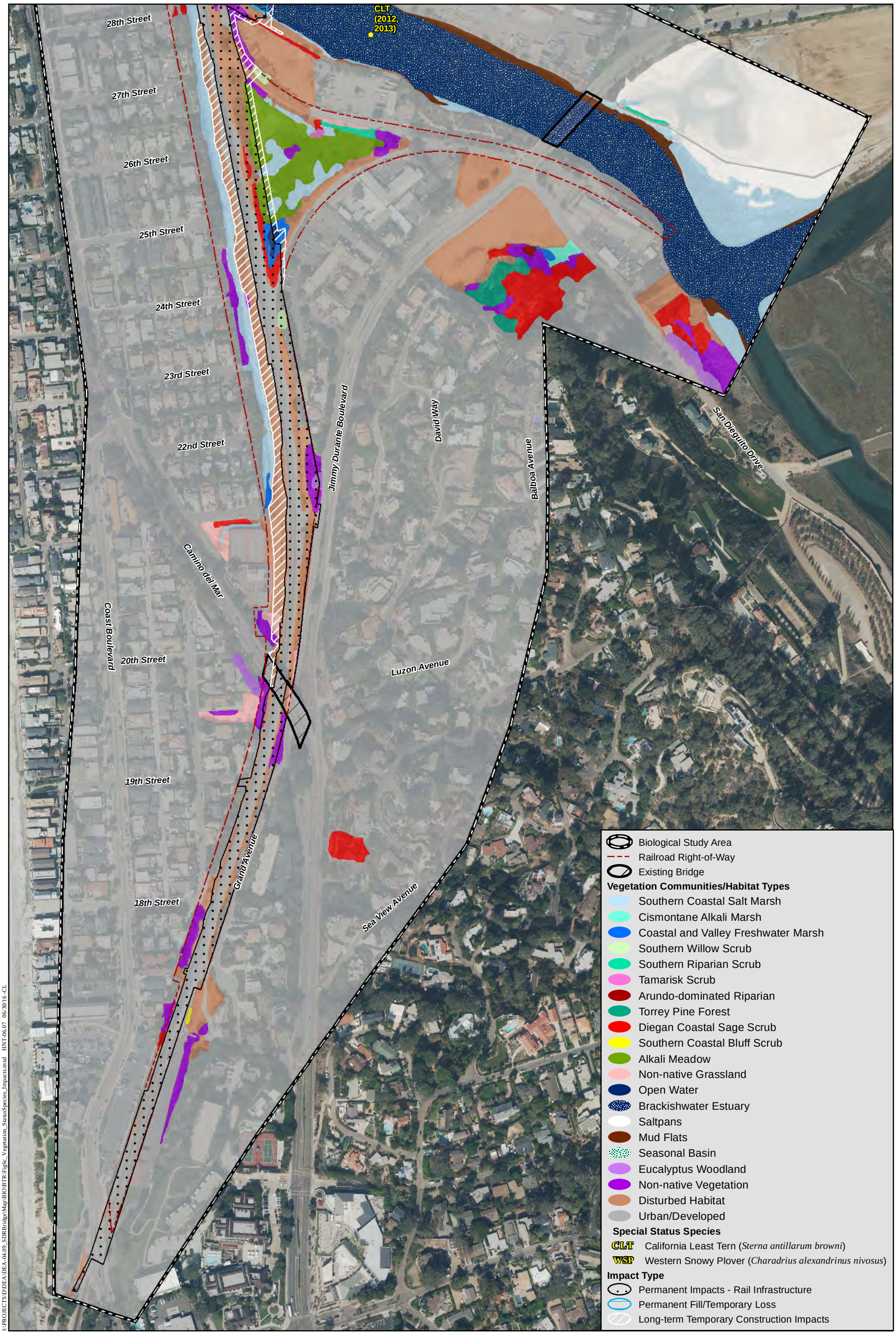

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Direct Effects to Vegetation Communities/Habitat Types and Special Status Species

SAN DIEGUITO RIVER BRIDGE, DOUBLE TRACK,
AND DEL MAR FAIRGROUNDS SPECIAL EVENTS PLATFORM PROJECT

HELIX Environmental Planning

N 0 300 Feet

Exhibit 15
CC-0001-17
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Figure 6c