US Army Corps
of Engineers®
Sacramento District

AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)
SACRAMENTO, CALIFORNIA

LIST OF CONTRACT VOLUMES:

VOLUME 1: CONTRACT SPECIFICATIONS, REACH I - CONTRACT 2: STA 0+00 TO 115+00 AND REACH H - SUBREACH 1

VOLUME 2: IMPROVEMENT PLANS, REACH I - CONTRACT 2: STA 0+00 TO 115+00

VOLUME 3: IMPROVEMENT PLANS, REACH H - SUBREACH 1: STA 0+00 TO 13+00

DRAFT

USACE SACRAMENTO SIGNATURE BLOCK
PREPARED UNDER THE DIRECTION OF:

Robert M. McTighe, PMP
Col. Corps of Engineers, Sacramento District

APPROVED BY:

/s/ Mark J. DeRocchi P.E.
Chief, Engineering Division

APPROVED FUNCTIONAL ADEQUACY:

/s/ William Hall P.E.
Chief, Civil Works Design Branch

SOLICITATION NO.: W91238-XX-X-XXXX
CONTRACT NO.: W91238-XX-X-XXXX
ISSUE DATE: DECEMBER 2025

DISTRIBUTION STATEMENT A
APPROVED FOR PUBLIC RELEASE. DISTRIBUTION UNLIMITED

REGISTERED PROFESSIONAL ENGINEER
PETER M. BLUM
C79
CIVIL
STATE OF CALIFORNIA

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
SPEC NO: 2079
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-64-0025
FILE NAME: 9003.008G001.dwg

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1112 I STREET, SUITE 300
SACRAMENTO, CA, 95814

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

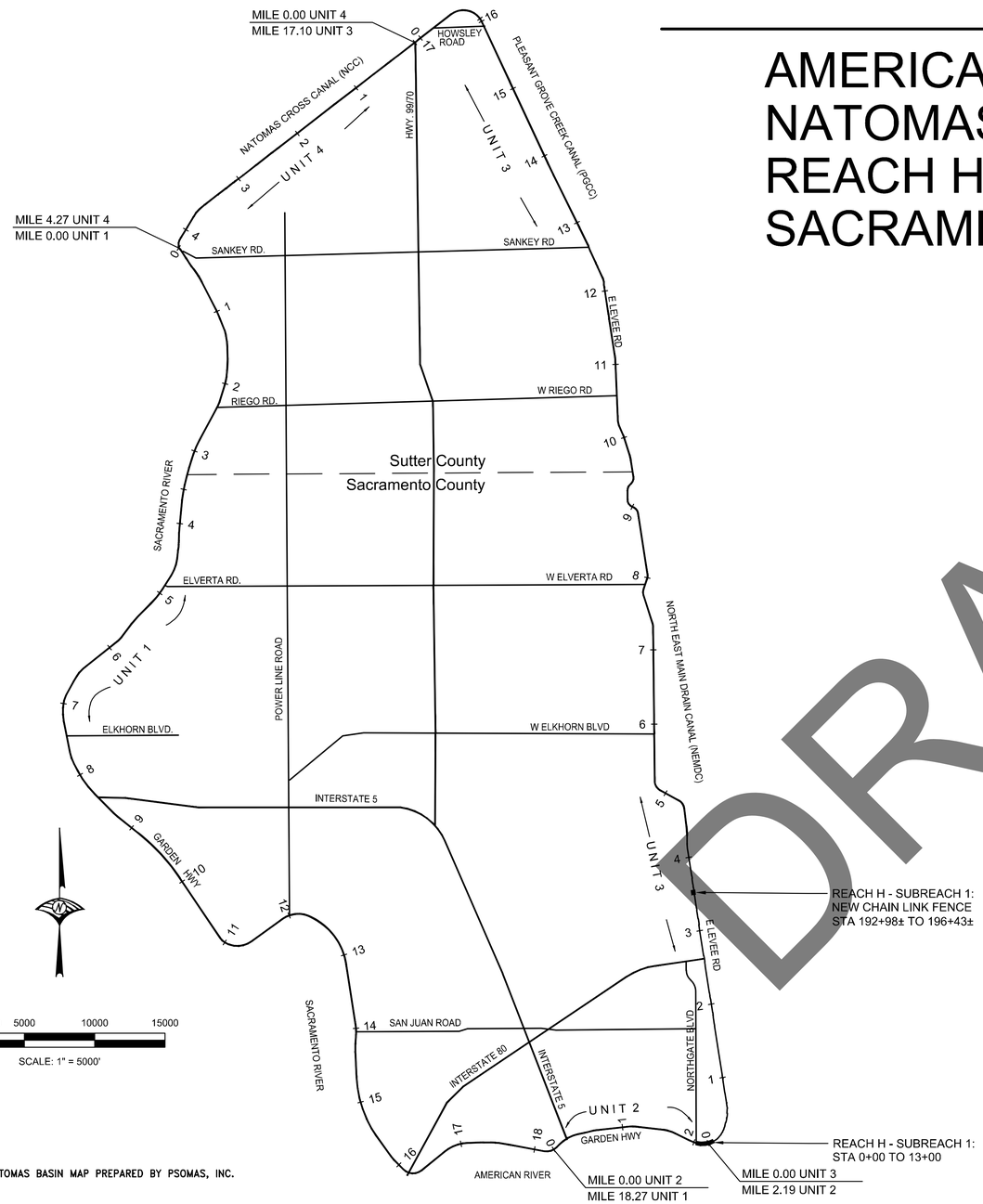
COVER SHEET

SHEET ID
G-001

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008G001.dwg

READY TO ADVERTISE

AMERICAN RIVER COMMON FEATURES
NATOMAS BASIN
REACH H - SUBREACH 1: STA 0+00 TO 13+00
SACRAMENTO, CALIFORNIA



SITE LOCATION MAP
NOT TO SCALE

DRAFT

NOTES:

1. NATOMAS BASIN MAP PREPARED BY PSOMAS, INC.
2. THE LEVEE MILES SHOWN HEREON ARE BASED UPON THE SACRAMENTO AREA FLOOD CONTROL AGENCY NATOMAS LEVEE IMPROVEMENT PROGRAM PROJECT BASELINES. THE BEGINNING AND ENDING POINTS OF UNITS 1 THROUGH 4 ARE BASED UPON THE INFORMATION OBTAINED FROM RECLAMATION DISTRICT NO. 1000 INSPECTION LOGS DATED FEBRUARY 1991 AND FEBRUARY 1992 AND ARE APPROXIMATE IN NATURE.

US Army Corps of Engineers®

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DESIGNED BY: P. BLUM, M.Z., D.L.	ISSUE DATE: DECEMBER 2025
DRAWN BY: M.Z., D.Z., D.L., J.M.P.	SOLICITATION NO.:
CHECKED BY: J. KORS	CONTRACT NO.:
SUBMITTED BY: P. BLUM	DESIGN FILE NO: H-002-01
SIZE: ANSI D	FILE NAME: 9003.008G002.dwg
SPEC NO: 2079	

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1517 FULTON AVENUE, SUITE 1
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SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
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BASIN MAP

SHEET ID
G-002

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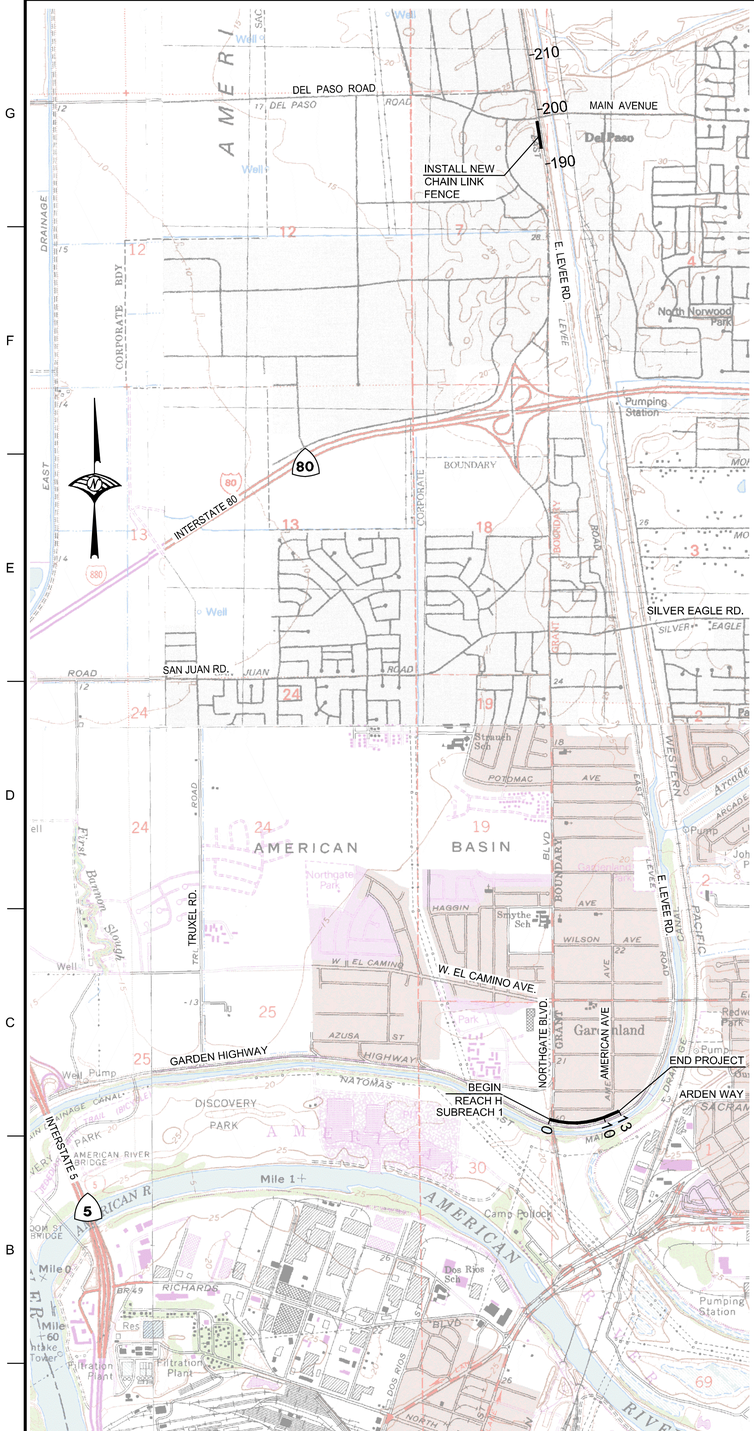

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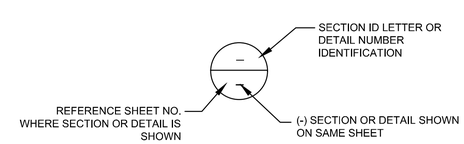
LEGEND

ITEM	EXISTING	PROPOSED
CENTERLINE		
PROPERTY LINE		
RIGHT-OF-WAY		N/A
CONSTRUCTION LIMITS	N/A	
EASEMENT		
FENCE	X X	X X
UTILITY POLE		
EARTH SLOPE	N/A	TOP / TOE
GRADING SLOPE	N/A	2:1
OVERHEAD POWER LINE	OH	OH
UNDERGROUND POWER LINE/JOINT TRENCH	E E E	N/A
WATER PIPE	W	N/A
STORM DRAIN	SD	N/A
SANITARY SEWER	SS	N/A
GAS PIPE	G	N/A
CONSTRUCTION CENTERLINE W/STATION	N/A	48+00
GROUND CONTOUR	12	12
SPOT ELEVATION	x 99.7	x 122.35
EARTH		
CONCRETE		
AGGREGATE BASE		
STAGING/STOCKPILE AREA	N/A	
RUBBERIZED ASPHALT CONCRETE		
ASPHALT CONCRETE		
AGGREGATE SURFACING	N/A	
CURB, GUTTER, & SIDEWALK REMOVAL	N/A	
TREE STUMP & ROOTBALL REMOVAL	N/A	

ABBREVIATIONS

AB	AGGREGATE BASE	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MBG	METAL BEAM GUARDRAIL
ACI	AMERICAN CONCRETE INSTITUTE	MIN	MINIMUM
ALT	ALTERNATE	MISC	MISCELLANEOUS
ALUM.	ALUMINUM	N	NORTH
ANG	ANGLE	N/A	NOT APPLICABLE
APN	ASSESOR'S PARCEL NO.	NEMDC	NATOMAS EAST MAIN DRAINAGE CANAL
APP, APPROX	APPROXIMATE	NMWC	NATOMAS MUTUAL WATER COMPANY
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	NO	NUMBER
BC	BEGIN CURVE	NTS	NOT TO SCALE
BEG	BEGIN	OD	OUTSIDE DIAMETER
BF	BOTTOM FACE	OF	OUTSIDE FACE
BM	BENCHMARK	OH	OVERHEAD
BP	BEGIN PROJECT	OHWM	ORDINARY HIGH WATER MARK
CDF	CONTROL DENSITY FILL	PC	POINT OF CURVATURE
CIPCP	CAST-IN-PLACE CONCRETE PIPE	PERM	PERMANENT
CC	CENTER-TO-CENTER	PI	POINT OF INTERSECTION
CCY	COMPACTED CUBIC YARDS	PL, P L	PROPERTY LINE
C/E	CONSTRUCTION EASEMENT	PRC	POINT OF REVERSE CURVE
CJ	CONSTRUCTION JOINT	PSI	POUNDS PER SQUARE INCH
℄	CENTERLINE	PT.	POINT
CLR	CLEAR	PVC	POLYVINYL CHLORIDE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	R	RADIUS
CMU	CONCRETE MASONRY UNIT	RCP	REINFORCED CONCRETE PIPE
CO.	COUNTY	RD 1000	RECLAMATION DISTRICT 1000
CONC	CONCRETE	REINF REQ	REINFORCING REQUIRED
CONST	CONSTRUCTION	ROW	RIGHT-OF-WAY
CONTR	CONTRACTION	RT	RIGHT
CP	CONTROL POINT	S	SOUTH
CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD	SAC	SACRAMENTO
D	DRAIN	SAFCA	SACRAMENTO AREA FLOOD CONTROL AGENCY
db	BAR DIAMETER	SB	SOIL-BENTONITE
DIA, Ø	DIAMETER	SCCB	SLAG CEMENT-CEMENT BENTONITE
DIP	DUCTILE IRON PIPE	SCH	SCHEDULE
DS	DOWNSTREAM	SECT	SECTION
DWG	DRAWING	SF	SQUARE FOOT
DWSE	DESIGN WATER SURFACE ELEVATION	SHT	SHEET
E	EAST	SPEC	SPECIFICATIONS
EA	EACH	SREL	SACRAMENTO RIVER EAST LEVEE
EC	END CURVE	SS	STAINLESS STEEL
EF	EACH FACE	STA	STATION
EP	EDGE OF PAVEMENT	STR	STRUCTURE
EL, ELEV	ELEVATION	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
ESVCP	EXTRA STRONG VITRIFIED CLAY PIPE	TBC	TOP BACK OF CURB
EXIST, EX	EXISTING	TCE	TEMPORARY CONSTRUCTION EASEMENT
EW	EACH WAY	TEMP	TEMPORARY
FCY	FILL CUBIC YARDS	TNBC	THE NATOMAS BASIN CONSERVANCY
FL	FLOW LINE	TOW	TOP OF WALL
FOC	FACE OF CURB	TRANS	TRANSITION
FPLE	FLOOD PROTECTION LEVEE EASEMENT	TS	STRUCTURAL TUBING
FT	FOOT OR FEET	TYP	TYPICAL
FTG	FOOTING	US	UPSTREAM
GALV	GALVANIZED	VCT	VERTICAL CHAIN TRENCH
GB	GRADE BREAK	VERT	VERTICAL
GL	GROUND LINE	W/	WITH
GWT	GROUND WATER TABLE	WPJ	WEAKENED PLANE JOINT
H	HEIGHT	WSE 200	WATER SURFACE ELEVATION, 200-YR DESIGN
HORIZ	HORIZONTAL	W.S.P.	WELDED STEEL PIPE
HSS	HOLLOW STRUCTURAL SECTION		
ID	INSIDE DIAMETER / IDENTIFICATION		
IF	INSIDE FACE		
INV	INVERT		
JUA	JOINT USE AREA		
LF	LINEAR FEET		
LT	LEFT		



SECTION AND DETAIL CROSS-REFERENCING CONVENTIONS

GENERAL NOTES

1. CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR HAULING AND TRAFFIC CONTROL TO THE CONTRACTING OFFICER. THE PLAN SHALL CONFORM TO CITY OF SACRAMENTO AND COUNTY OF SACRAMENTO PUBLIC WORKS STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL PERMITS THAT MAY BE REQUIRED FOR HAULING AND TRAFFIC CONTROL.

DRAFT

US Army Corps of Engineers®

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DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
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ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1.4.4.0.0
FILE NAME: 9003.008G003.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
VOLUNTARY SERVICE OF ASCE
SACRAMENTO, CA 95831

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH I
STA 0+00 TO 15+00 (VOLUME 5 OF 5)

VICINITY MAP, DRAWING LIST, LEGEND, AND ABBREVIATIONS

SHEET ID
G-003

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GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WORK WITH AT&T, PG&E, AND/OR SMUD WHEN WORKING NEAR POWER LINES, POWER POLES, AND GAS MAINS.
2. THE OPERATORS OF FACILITIES ON THE NEMDC WILL REQUIRE A PLAN FOR OPERATION AND MAINTENANCE ACCESS. OPERATORS WILL BE INVITED TO WEEKLY CONSTRUCTION MEETINGS AND WILL REQUIRE NOTIFICATION FOR ACCESS ON TOP OF THE LEVEE DURING CONSTRUCTION. THE WORK SHALL BE COORDINATED THROUGH THE GOVERNMENT'S CONSTRUCTION MANAGER.
3. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL WARNING SIGNS, DEVICES, AND FEATURES NECESSARY TO PROTECT THE HEALTH AND SAFETY OF THE GENERAL PUBLIC AND WORKERS AND TO PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS APPLICABLE TO ALL WORK PERFORMED UNDER THE CONTRACT.
5. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SIZES, AND LOCATIONS OF ALL EXISTING FACILITIES AND FEATURES BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY DISCREPANCIES.
7. ALL CONSTRUCTION MATERIALS SHALL CONFORM TO THE CONTRACT SPECIFICATIONS.
8. THE CONTRACTOR SHALL BE IN RECEIPT OF CITY AND/OR COUNTY APPROVED PLANS PRIOR TO BEGINNING CONSTRUCTION WITHIN ANY CITY AND/OR COUNTY RIGHT-OF-WAY.
9. UTILITY INFORMATION WAS COMPILED FROM DATA PROVIDED BY THE UTILITY OWNERS AND LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND OPERATIONS.
10. EXISTING PRIVATE FEATURES AND ENCROACHMENTS LISTED/SHOWN IN THESE DRAWINGS TO BE PROTECTED IN PLACE OR NOT DISTURBED ARE NOT PART OF THE FEDERAL FLOOD RISK REDUCTION PROJECT. EXISTING UTILITIES LOCATED OUTSIDE THE LIMITS OF GROUND DISTURBANCE ARE SHOWN ON THESE DRAWINGS FOR CONTRACTOR AWARENESS AND PROTECTION. THESE ITEMS HAVE NOT BEEN EVALUATED FOR CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS REGARDING ASSESSMENT AND ACCEPTANCE OF LEVEE PENETRATIONS. THEIR INCLUSION IN THESE DRAWINGS DOES NOT INDICATE BY REFERENCE THAT THEY ARE DETERMINED TO MEET STATE AND FEDERAL REQUIREMENTS.
11. THE CONTRACTOR IS HEREBY NOTIFIED THAT, PRIOR TO COMMENCING CONSTRUCTION, THEY ARE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES INVOLVED WITH THIS PROJECT. IN ADDITION, THE CONTRACTOR IS TO REQUEST TO HAVE ALL UNDERGROUND UTILITIES WHICH MAY POSSIBLY CONFLICT WITH THE ABOVEGROUND OR BELOWGROUND IMPROVEMENTS IDENTIFIED IN THE FIELD. THE CONTRACTOR OR ANY SUBCONTRACTOR IS REQUIRED TO NOTIFY UNDERGROUND SERVICE ALERT (U.S.A) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION BY CALLING (800) 227-2600.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROVIDE SURVEYORS WITH AT LEAST 48 HOURS ADVANCE NOTICE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AS-BUILT DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE OF ALL IMPROVEMENTS AND FILLS THAT ARE CONSTRUCTED AND COPIES SHALL BE DELIVERED TO THE CONTRACTING OFFICER PRIOR TO THE ACCEPTANCE OF THE WORK AS INDICATED IN THE SPECIFICATIONS.
14. DRAWINGS SHOWN WITH AERIAL PHOTOGRAPHS ARE PROVIDED FOR REFERENCE ONLY. ALL FACILITIES MAY NOT BE SHOWN ON PHOTOGRAPHS. THE CONTRACTOR SHALL SATISFY ITSELF AS TO THE LOCATION OF EXISTING FACILITIES THAT MAY BE AFFECTED BY CONSTRUCTION.
15. EXISTING FENCING AND GATES WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED AS REQUIRED FOR CONSTRUCTION AND AS SPECIFIED ON THE PLANS. WHERE EXISTING FENCING OR BARRIERS ARE REMOVED, TEMPORARY BARRIERS SHALL BE PROVIDED. FENCING AND GATE SIGNS SHALL BE REPLACED FOLLOWING CONSTRUCTION OF THE LEVEE.
16. ALL FENCING OR GATES TO BE LOCATED ON A PROPERTY LINE SHALL BE LOCATED BY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER AUTHORIZED TO PRACTICE IN THE STATE OF CALIFORNIA.
17. SEE SPECIFICATION SECTION 01 50 02, TEMPORARY CONSTRUCTION FACILITIES, REGARDING PROJECT-RELATED SIGNS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
18. THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND STREET CLEANING IN ACCORDANCE WITH THE PROJECT SWPPP.
19. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONTRACT ACTIVITIES.
20. ADMINISTRATION OF ALL WORK BY THE CONTRACTOR SHALL COMPLY WITH THE GENERAL SPECIFICATIONS.
21. CONTRACTOR SHALL VIDEOTAPE THE EXISTING CONDITION OF ALL PUBLIC/PRIVATE ROADS TO BE USED FOR CONSTRUCTION AND MAINTAIN COPIES FOR INSPECTION.
22. CONTRACTOR SHALL PREPARE A FLOOD CONTINGENCY PLAN IN ACCORDANCE WITH SPECIFICATION SECTION 00 73 05.

PERMIT NOTES

1. SEE GENERAL SPECIFICATIONS FOR ALL PERMITS APPLICABLE TO THE CONTRACT.

BASIS OF DESIGN

1. GEOTECHNICAL INFORMATION USED FOR THIS DRAWING SET WAS PROVIDED BY URS, INC. IN THE FOLLOWING DOCUMENT:
   A. AMERICAN RIVER COMMON FEATURES PROJECT, NATOMAS BASIN, REACH H GEOTECHNICAL DESIGNS, GEOTECHNICAL BASIS OF DESIGN REPORT, OCTOBER 2016.
2. THE DESIGN WATER SURFACE ELEVATIONS WERE PROVIDED BY MBK ENGINEERS IN THE FOLLOWING DOCUMENT:
   A. SUPPLEMENTAL REPORT FOR THE DESIGN WATER SURFACE PROFILE FOR THE NATOMAS LEVEE IMPROVEMENT PROGRAM, DECEMBER 12, 2008, PREPARED FOR THE SACRAMENTO AREA FLOOD CONTROL AGENCY.
3. THE PERFORMANCE OF LEVEE SYSTEMS IS DEPENDENT UPON THE DESIGN CRITERIA AND THE LONG TERM OPERATION AND MAINTENANCE OF THE LEVEES. WOOD RODGERS, INC. HAS PREPARED THESE PLANS AND ASSOCIATED SPECIFICATIONS IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE USING INFORMATION FROM MULTIPLE SOURCES, INCLUDING THE USACE'S OTHER DESIGN CONSULTANTS. IF EXTREME FLOODS (EXCEEDING THE DESIGN PROFILE), EARTHQUAKES, OR OTHER LOADING CONDITIONS NOT EVALUATED IN THE DESIGN OCCUR, THE INTEGRITY OF THE LEVEE SYSTEM MAY BE COMPROMISED.

CONTACT REPRESENTATIVES

CLIENT/ CONSULTANT	REPRESENTATIVES		PHONE
U.S.A.	———	———	1-800-227-2600
SPONSOR	SAFCA	JOHN BASSETT	(916) 874-7606
SPONSOR	CVFPB	ALCENAT HONORAT	(916) 574-0928
OWNER (O&M)	RD 1000	PAUL DEVEREUX	(916) 922-1449
DESIGN ENGINEER	PCSC	PETER BLUM	(916) 440-8073
USACE	———	MARK BOEDTKER	(916) 557-6637
GEOTECHNICAL ENGINEER	AECOM (PREVIOUSLY URS)	SHAWN ORGILL	(916) 679-2046
GAS	P.G.&E.	JESSICA NGUYEN	(415) 407-0533
ELECTRICITY	S.M.U.D.	CHRISTOPHER ANDERSON	(916) 732-7304
COMMUNICATION	A.T.&T.	ANDREA GALESTE	(916) 606-3952
COMMUNICATION	COMCAST	SANTIANO ARUTA	(925) 290-9006
SEWER	SACRAMENTO AREA SEWER DISTRICT	ROY CARLSON	(916) 876-6787
GENERAL CONTACT	CITY OF SACRAMENTO	———	(916) 808-1721
WATER	CITY OF SACRAMENTO	JESUS REYES	(916) 808-1721
DRAINAGE	CITY OF SACRAMENTO	BRETT GRANT	(916) 808-1413
TRANSPORTATION	CITY OF SACRAMENTO	MATHEW JOHNS	(916) 808-5760
PUBLIC RECORDS	CITY OF SACRAMENTO	RON FONG	(916) 808-7915
BIKE/PEDESTRIAN	CITY OF SACRAMENTO	JENNIFER DONLAN WYANT	(916) 808-5913
ARBORIST	CITY OF SACRAMENTO	KEVIN HOCKER	(916) 808-4996

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1325 J STREET
SACRAMENTO, CA 95814-2922

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1112 I STREET, SUITE 300, SACRAMENTO, CA, 95814

SACRAMENTO, CALIFORNIA
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GENERAL NOTES

SHEET ID
G-004

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008G004.dwg

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GENERAL NOTES

1. THE HORIZONTAL DATUM FOR SURVEY DATA IS THE NORTH AMERICAN DATUM OF 1983 (NAD83)(1991.35 EPOCH) BEING THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE 2. THE VERTICAL DATUM FOR SURVEY DATA IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. LEVEE CENTERLINE IS AN APPROXIMATE CENTERLINE DEVELOPED FROM THE TOPOGRAPHIC MAPS.
3. TOPOGRAPHIC MAPPING IS BASED ON AERIAL PHOTOGRAPHY DATED MAY 10, 2007, UNLESS OTHERWISE NOTED.
4. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 AND ARE BASED UPON SACRAMENTO COUNTY BENCHMARK BM6-38 BEING A 2" BRASS DISC STAMPED "SAC. CO. DEPT OF PUBLIC WORKS B.M. 6-38 DOYLE 1967" LOCATED IN THE TOP & NEAR THE NORTH EDGE OF THE SOUTH WALK OVER THE WEST ABUTMENT OF THE CONCRETE BRIDGE ON ELKHORN BLVD. AND ACROSS THE NATOMAS EAST MAIN DRAIN CANAL.
5. BASELINE COORDINATES, DISTANCES, AND STATIONING SHOWN HEREIN ARE "GRID" BASED UPON THE CALIFORNIA COORDINATE SYSTEM, ZONE 2 (NAD83)(92). MULTIPLY GRID DISTANCES BY 1.00006027 TO OBTAIN GROUND DISTANCES.
6. AERIAL IMAGERY SHOWN WITHIN THE PLANS WAS PROVIDED BY THE USACE ON AUGUST 1, 2016. DATE OF PHOTOGRAPHY IS UNKNOWN.

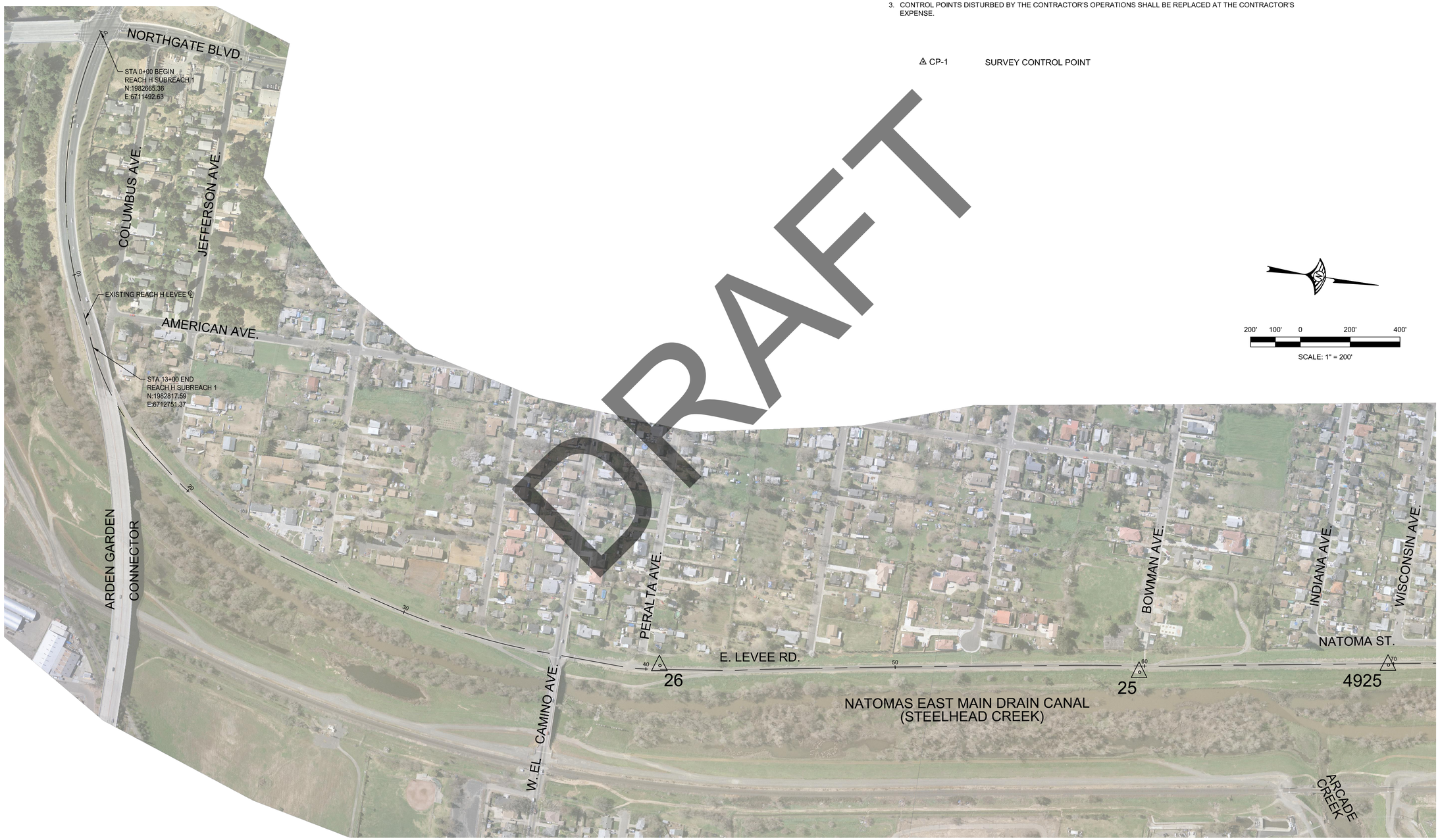
SURVEY CONTROL POINTS

1. THE FOLLOWING CONTROL POINTS HAVE BEEN ESTABLISHED BY PSOMAS, INC. FOR THE CONTRACTOR'S USE ON THE PROJECT:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
25	1987161.216	6713429.037	41.12	Cut Cross
26	1985254.041	6713682.964	41.25	3.5" Alum Disk "Psomas Control"
4925	1988144.630	6713254.993	43.22	Iron Pipe & "Psomas" Cap

2. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL CONTROL POINTS. WHERE CONTROL POINTS CONFLICT WITH OR WILL BE REMOVED BY LEVEE DEGRADING ACTIVITIES, CONTRACTOR SHALL REMOVE AND REPLACE THE CONTROL POINTS AT CONTRACTOR'S EXPENSE.
3. CONTROL POINTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

△ CP-1 SURVEY CONTROL POINT



DRAFT

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1.4.4.0295
FILE NAME: 9003.008G005.dwg

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1112 I STREET, SUITE 300, SACRAMENTO, CA 95814

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 5 OF 5)

SURVEY CONTROL POINTS
(1 of 2)

SHEET ID
G-005

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008G005.dwg

READY TO ADVERTISE

GENERAL NOTES

1. THE HORIZONTAL DATUM FOR SURVEY DATA IS THE NORTH AMERICAN DATUM OF 1983 (NAD83)(1991.35 EPOCH) BEING THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE 2. THE VERTICAL DATUM FOR SURVEY DATA IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. LEVEE CENTERLINE IS AN APPROXIMATE CENTERLINE DEVELOPED FROM THE TOPOGRAPHIC MAPS.
3. TOPOGRAPHIC MAPPING IS BASED ON AERIAL PHOTOGRAPHY DATED MAY 10, 2007, UNLESS OTHERWISE NOTED.
4. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 AND ARE BASED UPON SACRAMENTO COUNTY BENCHMARK BM6-38 BEING A 2" BRASS DISC STAMPED "SAC. CO. DEPT OF PUBLIC WORKS B.M. 6-38 DOYLE 1967" LOCATED IN THE TOP & NEAR THE NORTH EDGE OF THE SOUTH WALK OVER THE WEST ABUTMENT OF THE CONCRETE BRIDGE ON ELKHORN BLVD. AND ACROSS THE NATOMAS EAST MAIN DRAIN CANAL.
5. BASELINE COORDINATES, DISTANCES, AND STATIONING SHOWN HEREIN ARE "GRID" BASED UPON THE CALIFORNIA COORDINATE SYSTEM, ZONE 2 (NAD83)(92). MULTIPLY GRID DISTANCES BY 1.00006027 TO OBTAIN GROUND DISTANCES.
6. AERIAL IMAGERY SHOWN WITHIN THE PLANS WAS PROVIDED BY THE USACE ON AUGUST 1, 2016. DATE OF PHOTOGRAPHY IS UNKNOWN.

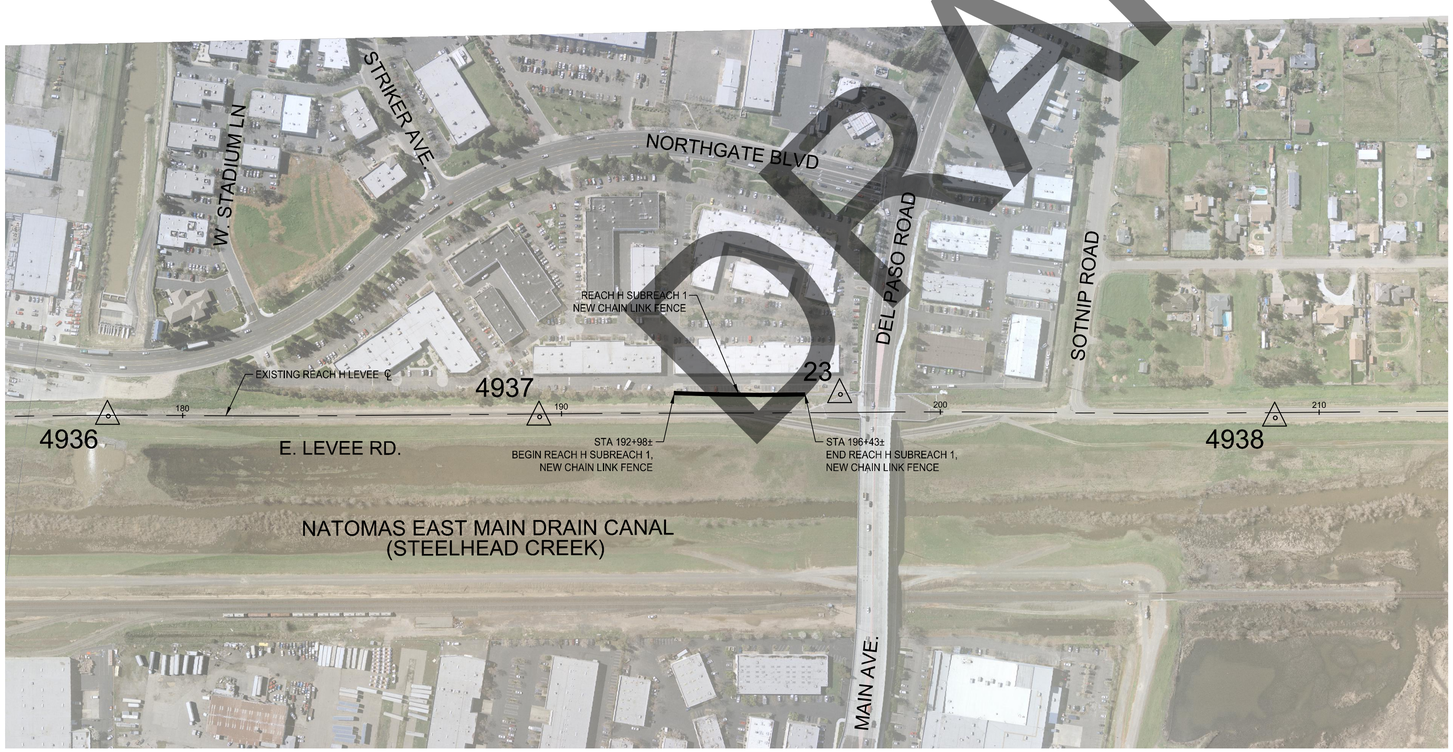
SURVEY CONTROL POINTS

1. THE FOLLOWING CONTROL POINTS HAVE BEEN ESTABLISHED BY PSOMAS, INC. FOR THE CONTRACTOR'S USE ON THE PROJECT:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
4936	1998842.609	6711603.344	49.11	Cross on Vault (UEDA #2015)
4937	1999969.416	6711439.044	45.25	Iron Pipe & "Psomas" Cap
23	2000746.103	6711264.727	47.12	3.5" Alum Disk "Psomas Control"
4938	2001890.821	6711158.660	46.50	Iron Pipe & "Psomas" Cap

2. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL CONTROL POINTS. WHERE CONTROL POINTS CONFLICT WITH OR WILL BE REMOVED BY LEVEE DEGRADING ACTIVITIES, CONTRACTOR SHALL REMOVE AND REPLACE THE CONTROL POINTS AT CONTRACTOR'S EXPENSE.
3. CONTROL POINTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

△ CP-1 SURVEY CONTROL POINT



DRAFT

200' 100' 0 200' 400'

SCALE: 1" = 200'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
SPEC NO: 2079
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1.44 ACRES
FILE NAME: 9003.008G006.dwg

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
SACRAMENTO, CALIFORNIA

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 15+00 (VOLUME 3 OF 3)

SURVEY CONTROL POINTS
(2 of 2)

SHEET ID
G-006

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008G006.dwg

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MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO.: 1-AE-0049
FILE NAME: 9003.008V101.dwg
SPEC NO. 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1107 9th STREET, SUITE 1000
SACRAMENTO, CA, 95817

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 15+00 (VOLUME 3 OF 3)

NEMDC AERIAL PHOTO REACH H
STATIONS 0+00 TO 7+00

SHEET ID
V-101

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008V101.dwg

READY TO ADVERTISE

NOTE: SEE SHEET V-101 FOR EXISTING REACH H CL & ACCESS ROAD ALIGNMENT LINE AND CURVE DATA.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-AE-0029
FILE NAME: 9003.008V102.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1107 9th AVENUE, SUITE 100
SACRAMENTO, CA, 95817

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 15+00 (VOLUME 3 OF 3)

NEMDC AERIAL PHOTO REACH H STATIONS 7+00 TO 13+00

SHEET ID

V-102

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008V102.dwg

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MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-DE-0029
FILE NAME: 9003.008V103.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1400 EXPRESS DRIVE
SACRAMENTO, CA, 95831

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 10+00 (VOLUME 3 OF 3)

NEMDC AERIAL PHOTO REACH H
STATIONS 189+00 TO 200+00

SHEET ID
V-103

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008V103.dwg

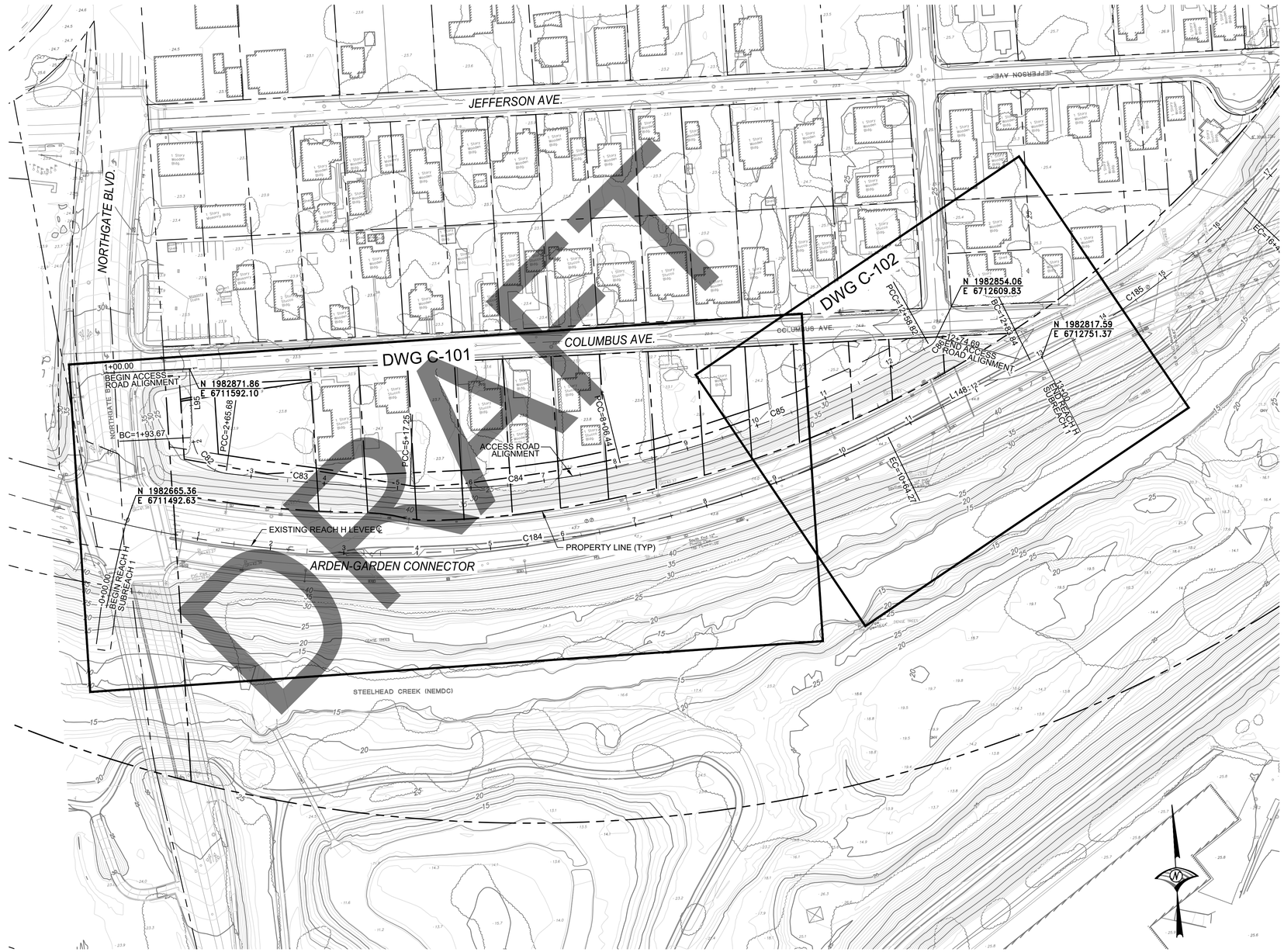
READY TO ADVERTISE

EXISTING REACH H LEVEE LINE TABLE		
LINE	LENGTH	BEARING
L148	219.56'	N67° 01' 38.63"E

EXISTING REACH H LEVEE CURVE TABLE			
CURVE	RADIUS	DELTA	LENGTH
C184	1550.00'	39°20'27"	1064.27'
C185	1000.00'	20°35'22"	359.35'

ACCESS ROAD ALIGNMENT LINE TABLE		
LINE	LENGTH	BEARING
L95	93.67'	S00°25'56"W

ACCESS ROAD ALIGNMENT CURVE TABLE			
CURVE	RADIUS	DELTA	LENGTH
C82	52.00'	79°20'21"	72.01'
C83	2525.21'	5°42'29"	251.57'
C84	1058.58'	15°39'08"	289.18'
C85	1543.73'	16°47'26"	452.39'
C86	20.00'	45°27'14"	15.87'



NOTES:
1. TREE, TREE STUMP & ROOT BALL REMOVAL LOCATIONS ARE SHOWN IN PLAN VIEW ON SHEETS C-003 & C-004.
2. TREES, TREE STUMPS AND ROOT BALLS TO BE REMOVED PER DETAIL 1 ON SHEET C-203.
3. CONTRACTOR SHALL PROTECT ALL TREES NOT TO BE REMOVED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. GRID SYSTEM DESCRIPTION CAN BE FOUND ON SHEET G-005.

80' 40' 0 80' 160'
SCALE: 1" = 80'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.	ISSUE DATE: DECEMBER 2025
DRAWN BY: M.Z., D.Z., D.L., J.M.P.	SOLICITATION NO.:
CHECKED BY: J. KORS	CONTRACT NO.:
SUBMITTED BY: P. BLUM	DESIGN FILE NO: H-E-00639
SIZE: 22x34	FILE NAME: 9003.008C001.dwg
ANSI D	SPEC NO. 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
8950 CAL CENTER DRIVE, SUITE 351
SACRAMENTO, CA 95826

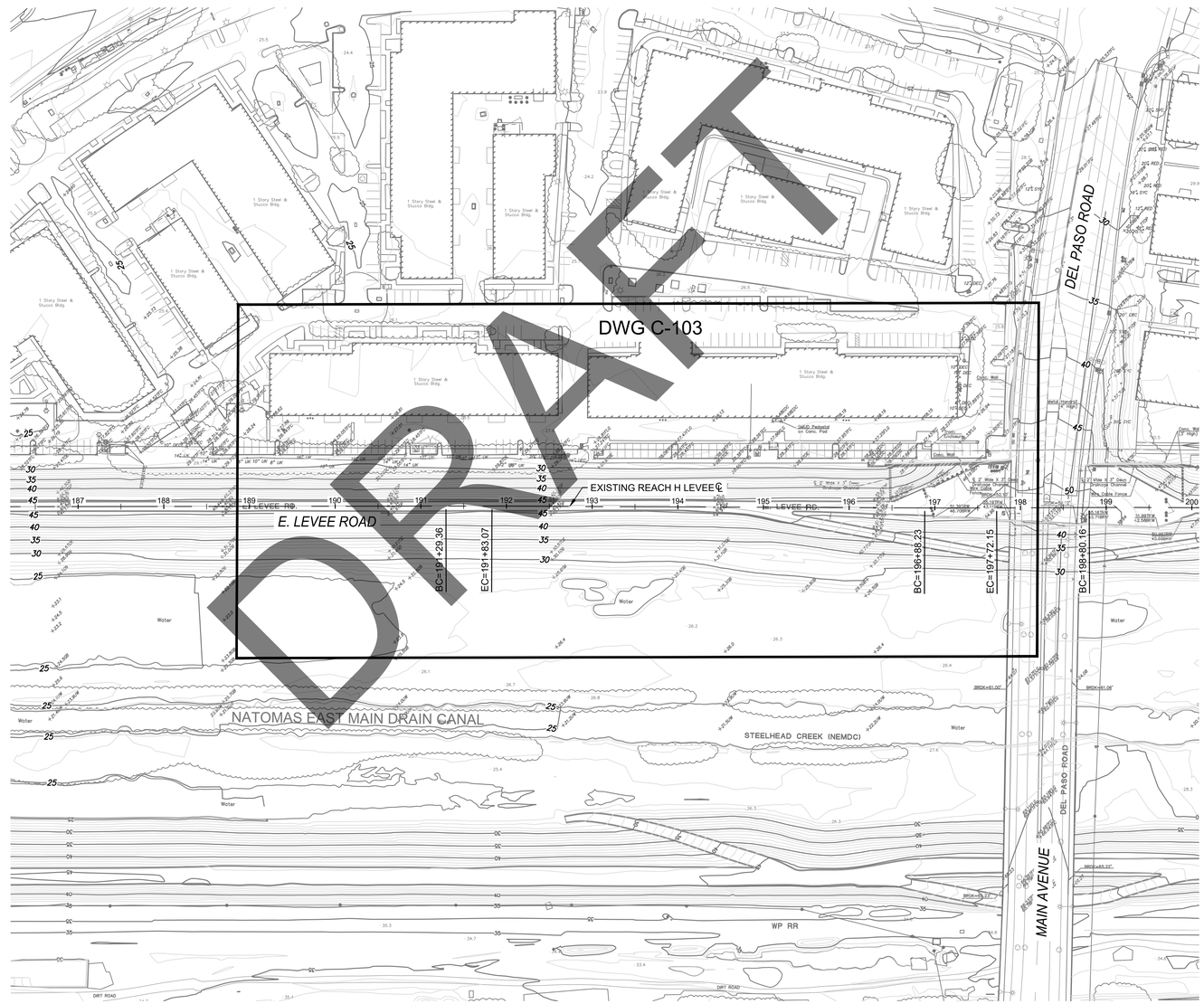
SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 15+60 (VOLUME 3 OF 3)

CONTROL LINE PLAN AND
PLAN & PROFILE SHEET LAYOUT
(1 of 2)

SHEET ID
C-001

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C001.dwg

READY TO ADVERTISE



NOTES:

1. FOR CONTROL LINE AND CURVE TABLE, SEE NATOMAS BASIN REACH H IMPROVEMENT PLANS, SHEET C-002.
2. CONTRACTOR SHALL PROTECT ALL TREES NOT REMOVED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. FOR GRID SYSTEM DESCRIPTION SEE SHEET G-005.

80' 40' 0 80' 160'

SCALE: 1" = 80'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
SPEC NO. 2079
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 14-0629
FILE NAME: 9003.008C002.dwg

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
SACRAMENTO, CALIFORNIA

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

PLAN SHEET LAYOUT
(2 of 2)

SHEET ID
C-002

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C002.dwg

READY TO ADVERTISE

CONSTRUCTION LIMIT LINE TABLE		
LINE	LENGTH	BEARING
L1	99.03'	N00°26'03"W
L2	9.05'	S89°16'31"W
L3	7.15'	N00°25'57"E
L4	24.54'	N89°13'45"E
L5	30.51'	S89°08'52"E
L6	6.34'	S00°11'24"E
L7	109.29'	S00°12'21"E
L8	67.55'	S78°01'50"E
L9	67.32'	S78°57'52"E
L10	67.44'	S78°25'23"E
L11	66.04'	S89°03'06"E
L12	66.04'	S89°16'42"E
L13	66.03'	S89°51'58"E
L14	66.19'	N85°45'26"E
L15	66.67'	N81°49'07"E
L16	67.08'	N79°36'55"E
L17	67.66'	N77°11'07"E
L18	68.23'	N75°11'35"E
L19	86.19'	N00°12'28"W
L20	66.04'	S89°28'21"E
L21	156.62'	S89°28'21"E
L22	1.29'	S89°26'36"E
L23	6.80'	N00°21'16"E
L24	7.24'	S89°15'41"E
L25	36.17'	S89°45'25"E
L26	6.95'	S00°14'35"W
L27	22.12'	S89°28'21"E
L28	70.98'	S89°28'21"E
L29	64.61'	S62°02'13"W
L30	31.53'	S64°25'44"W
L31	84.80'	S64°47'37"W
L32	58.19'	S66°37'58"W
L33	80.79'	S69°30'13"W
L34	68.57'	S72°20'32"W
L35	67.97'	S75°02'24"W
L36	69.21'	S77°29'39"W
L37	66.44'	S80°17'57"W
L38	66.26'	S83°37'14"W
L39	66.57'	S86°17'14"W
L40	66.39'	S88°39'33"W
L41	66.28'	N87°14'51"W
L42	52.62'	N77°30'50"W
L43	81.13'	N84°30'48"W
L44	200.78'	N80°02'35"W
L45	66.39'	N00°12'51"W
L46	18.68'	S78°01'50"E

FPLE LINE TABLE					
LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
L46	18.68'	N78°01'50"W	L17	67.66'	N77°11'07"E
L47	46.73'	S78°01'50"E	L18	68.23'	N75°11'35"E
L8	67.55'	S78°01'50"E	L48	69.03'	N72°50'12"E
L9	67.32'	S78°57'52"E	L49	80.24'	N69°20'09"E
L10	67.44'	S78°25'23"E	L50	88.70'	N66°26'26"E
L11	66.04'	S89°03'06"E	L22	1.29'	S89°26'36"E
L12	66.04'	S89°16'42"E	L51	43.42'	S89°29'29"E
L13	66.03'	S89°51'58"E	L27	22.12'	S89°28'21"E
L14	66.19'	N85°45'26"E	L28	70.98'	S89°28'21"E
L15	66.67'	N81°49'07"E			
L16	67.08'	N79°36'55"E			

NOTES:
1. GRID SYSTEM DESCRIPTION CAN BE FOUND ON SHEET G-005.

50' 25' 0 50' 100'
SCALE: 1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: H-LE-0029
FILE NAME: 9003.008C003.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1112 I STREET, SUITE 300
SACRAMENTO, CA, 95814

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 15+00 (VOLUME 5 OF 5)

CONSTRUCTION LIMIT & FPLE PLAN

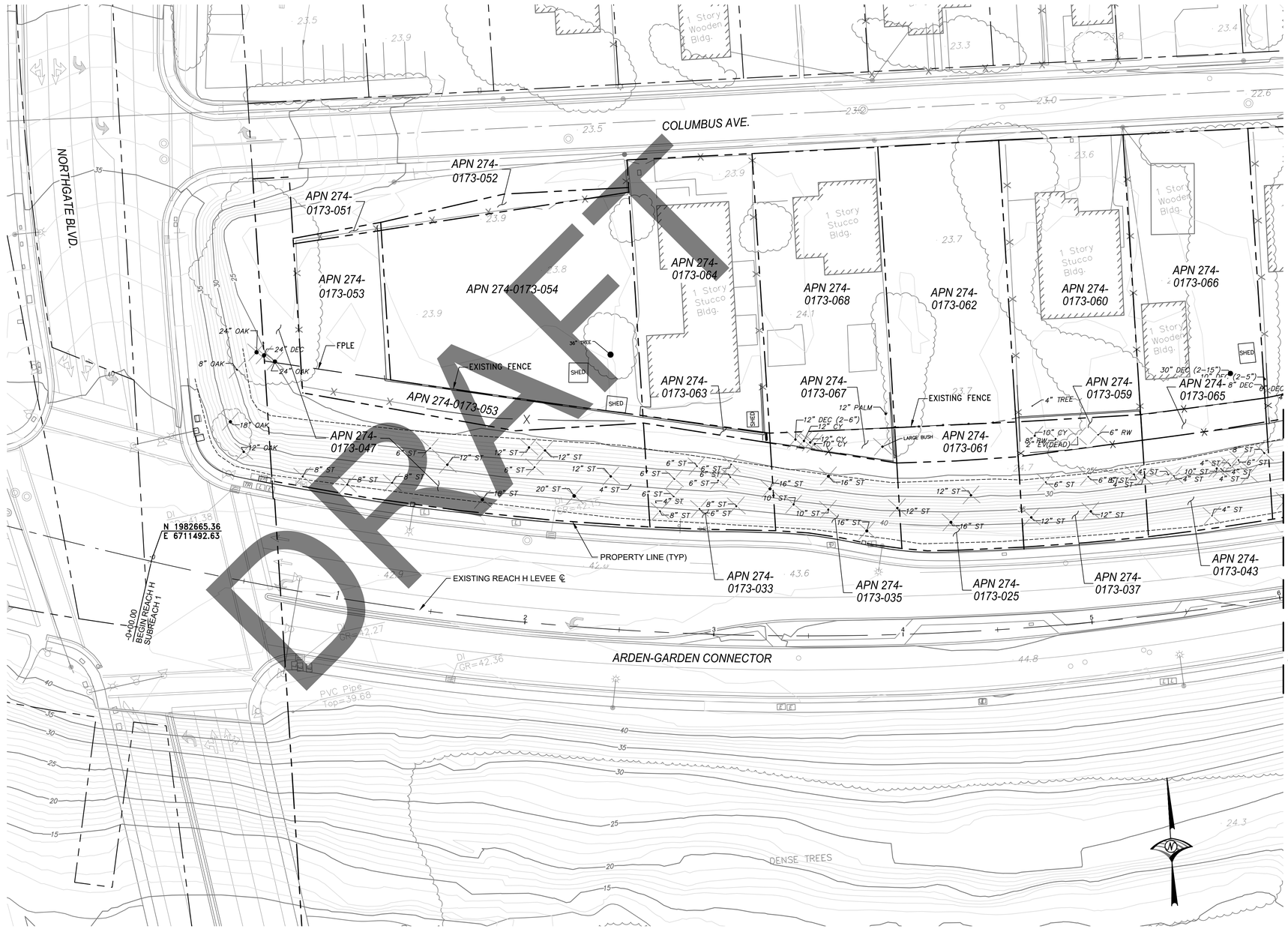
SHEET ID
C-003

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C003.dwg

READY TO ADVERTISE

TREE, STUMP AND ROOTBALL REMOVAL TABLE

APN	LAT	LONG	DESCRIPTION	DIAMETER	ACTION
APN 274-0173-013	38.605358	-121.472620	STUMP	12"	REMOVE STUMP
	38.605409	-121.472581	STUMP	12"	REMOVE STUMP
	38.605390	-121.472522	STUMP	12"	REMOVE STUMP
	38.605444	-121.472479	STUMP	12"	REMOVE STUMP
APN 274-0173-014	38.605413	-121.472405	STUMP	14"	REMOVE STUMP
	38.605492	-121.472321	STUMP	14"	REMOVE STUMP
	38.605519	-121.472219	STUMP	14"	REMOVE STUMP
	38.605456	-121.472261	STUMP	6"	REMOVE STUMP
	38.605471	-121.472212	STUMP	6"	REMOVE STUMP
	38.605471	-121.472417	STUMP	4"	REMOVE STUMP
APN 274-0173-015	38.605490	-121.472150	STUMP	14"	REMOVE STUMP
	38.605563	-121.472088	STUMP	14"	REMOVE STUMP
	38.605532	-121.472042	STUMP	8"	REMOVE STUMP
APN 274-0173-019	38.605596	-121.471984	STUMP	18"	REMOVE STUMP
	38.605587	-121.471891	STUMP	18"	REMOVE STUMP
	38.605603	-121.471815	STUMP	6"	REMOVE STUMP
	38.605545	-121.471791	STUMP	4"	REMOVE STUMP
	38.605618	-121.471769	STUMP	4"	REMOVE STUMP
APN 274-0173-020	38.605709	-121.471642	DEC	16"	REMOVE TREE
	38.605711	-121.471584	DEC	10"	REMOVE TREE
	38.605699	-121.471703	DEC	10"	REMOVE TREE
APN 274-0173-022	**38.605251**	**-121.473350**	**TREE**	**14"**	**TREE REMAIN**
	38.605272	**-121.473273**	**TREE**	**18"**	**TREE REMAIN**
	38.605316	**-121.473213**	**TREE**	**12"**	**TREE REMAIN**
	38.605270	**-121.473343**	**TREE**	**4"**	**TREE REMAIN**
APN 274-0173-023	38.605340	-121.472741	STUMP	20"	REMOVE STUMP
	38.605386	-121.472708	STUMP	12"	REMOVE STUMP
	38.605296	-121.472898	STUMP	10"	REMOVE STUMP
	38.605375	-121.472792	STUMP	4"	REMOVE STUMP
	38.605462	-121.472724	DEC (2-8")	16"	REMOVE TREE
APN 274-0173-025	38.605234	-121.474317	STUMP	12"	REMOVE STUMP
	38.605246	-121.474179	STUMP	12"	REMOVE STUMP
	38.605209	-121.474220	STUMP	16"	REMOVE STUMP
APN 274-0173-027	38.605310	-121.473092	STUMP	18"	REMOVE STUMP
	38.605311	-121.473032	STUMP	18"	REMOVE STUMP
	38.605262	-121.473146	STUMP	14"	REMOVE STUMP
	38.605287	-121.472954	STUMP	12"	REMOVE STUMP
APN 274-0173-033	38.605253	-121.474755	STUMP	8"	REMOVE STUMP
	38.605252	-121.474614	STUMP	8"	REMOVE STUMP
	38.605272	-121.474728	STUMP	6"	REMOVE STUMP
	38.605252	-121.474682	STUMP	6"	REMOVE STUMP
	38.605298	-121.474724	STUMP	6"	REMOVE STUMP
	38.605314	-121.474681	STUMP	6"	REMOVE STUMP
	38.605292	-121.474644	STUMP	6"	REMOVE STUMP
	38.605314	-121.474618	STUMP	6"	REMOVE STUMP
	38.605295	-121.474621	STUMP	6"	REMOVE STUMP
	38.605265	-121.474761	STUMP	4"	REMOVE STUMP
APN 274-0173-035	38.605287	-121.474440	STUMP	16"	REMOVE STUMP
	38.605274	-121.474549	STUMP	16"	REMOVE STUMP
	38.605204	-121.474376	STUMP	16"	REMOVE STUMP
	38.605250	-121.474508	STUMP	10"	REMOVE STUMP
	38.605239	-121.474444	STUMP	10"	REMOVE STUMP
APN 274-0173-036	38.605325	-121.474337	LARGE BUSH	N/A	REMOVE TREE
	38.605343	-121.474497	DEC (2-6")	12"	REMOVE TREE
	38.605341	-121.474481	CY	12"	REMOVE TREE
	38.605338	-121.474469	CY	12"	REMOVE TREE
	38.605372	**-121.474327**	**PALM**	**12"**	**TREE REMAIN**
	38.605335	-121.474461	CY	10"	REMOVE TREE
APN 274-0173-037	38.605208	-121.474071	STUMP	12"	REMOVE STUMP
	38.605211	-121.473960	STUMP	12"	REMOVE STUMP
	38.605261	-121.473876	STUMP	8"	REMOVE STUMP
	38.605258	-121.474040	STUMP	6"	REMOVE STUMP
	38.605262	-121.473961	STUMP	6"	REMOVE STUMP
	38.605256	-121.473859	STUMP	4"	REMOVE STUMP
APN 274-0173-039	38.605258	-121.473531	STUMP	18"	REMOVE STUMP
	38.605221	-121.473447	STUMP	8"	REMOVE STUMP
	38.605208	-121.473601	STUMP	8"	REMOVE STUMP
APN 274-0173-042	**38.605398**	**-121.473686**	**DEC (2-15")**	**30"**	**TREE REMAIN**
	38.605374	**-121.473627**	**DEC**	**8"**	**TREE REMAIN**
APN 274-0173-043	38.605261	-121.473723	STUMP	10"	REMOVE STUMP
	38.605279	-121.473633	STUMP	8"	REMOVE STUMP
	38.605272	-121.473682	STUMP	6"	REMOVE STUMP
	38.605193	-121.473738	STUMP	4"	REMOVE STUMP
	38.605264	-121.473698	STUMP	4"	REMOVE STUMP
	38.605261	-121.473715	STUMP	4"	REMOVE STUMP
	38.605267	-121.473813	STUMP	4"	REMOVE STUMP
	38.605255	-121.473803	STUMP	4"	REMOVE STUMP
	38.605249	-121.473664	STUMP	4"	REMOVE STUMP
APN 274-0173-045	38.605446	-121.472938	DEC (3-6")	16"	REMOVE TREE
	38.605412	-121.473001	DEC (2-8")	16"	REMOVE TREE
	38.605417	-121.473063	DEC	12"	REMOVE TREE
	38.605399	-121.473088	PALM	8"	REMOVE TREE
APN 274-0173-046	**38.605427**	**-121.473162**	**DEC (4-6")**	**24"**	**TREE REMAIN**
APN 274-0173-047	38.605516	-121.475466	DEC	24"	REMOVE TREE
	38.605506	-121.475447	OAK	24"	REMOVE TREE
	38.605283	-121.474911	STUMP	20"	REMOVE STUMP
	38.605286	-121.475081	STUMP	18"	REMOVE STUMP
	38.605340	-121.475142	STUMP	12"	REMOVE STUMP
	38.605357	-121.474989	STUMP	12"	REMOVE STUMP
	38.605351	-121.474960	STUMP	12"	REMOVE STUMP
	38.605308	-121.474841	STUMP	12"	REMOVE STUMP
	38.605337	-121.475410	STUMP	8"	REMOVE STUMP
	38.605321	-121.475328	STUMP	8"	REMOVE STUMP
	38.605319	-121.475246	STUMP	8"	REMOVE STUMP
	38.605366	-121.475171	STUMP	6"	REMOVE STUMP
	38.605328	-121.474981	STUMP	6"	REMOVE STUMP
	38.605294	-121.474806	STUMP	4"	REMOVE STUMP
APN 274-0173-049	38.605491	-121.472723	DEC (2-8")	16"	REMOVE TREE
	38.605467	-121.472760	DEC (2-8")	16"	REMOVE TREE
	38.605432	-121.472890	DEC (4-4")	16"	REMOVE TREE
	38.605455	-121.472784	ST 20"X3' HI	20"X3"	REMOVE TREE
APN 274-0173-050	**38.605522**	**-121.472722**	**DEC (2-8")**	**16"**	**TREE REMAIN**
APN 274-0173-054	**38.605484**	**-121.474827**	**TREE**	**36"**	**TREE REMAIN**
	38.605389	**-121.473412**	**PALM**	**10"**	**TREE REMAIN**
APN 274-0173-055	**38.605386**	**-121.473624**	**DEC (2-5")**	**10"**	**TREE REMAIN**
	38.605381	**-121.473580**	**DEC**	**6"**	**TREE REMAIN**
APN 274-0173-056	38.605378	-121.473448	DEC	4"	REMOVE TREE
	38.605375	-121.473465	DEC	4"	REMOVE TREE
	38.605347	-121.473423	CY	8"	REMOVE TREE
	38.605349	-121.473406	CY	8"	REMOVE TREE
	38.605348	-121.473414	CY	6"	REMOVE TREE
	38.605373	-121.473495	DEC	4"	REMOVE TREE
	38.605351	-121.473484	DEC	4"	REMOVE TREE
	38.605351	-121.473536	DEC	4"	REMOVE TREE
	38.605348	-121.473579	DEC	4"	REMOVE TREE
APN 274-0173-057	38.605371	-121.473308	PALM	26"	REMOVE TREE
	38.605398	-121.473168	DEC (4-6")	24"	REMOVE TREE
	38.605388	-121.473228	PALM	20"	REMOVE TREE
	38.605374	-121.473273	CACTUS (3-6")	18"	REMOVE TREE
	38.605397	-121.473291	DEC (2-6")	12"	REMOVE TREE
	38.605350	-121.473383	PALM	10"	REMOVE TREE
APN 274-0173-058	**38.605405**	**-121.473375**	**PALM**	**44"**	**TREE REMAIN**
APN 274-0173-059	38.605320	-121.473976	EV (DEAD)	2"	REMOVE TREE
	38.605326	-121.474055	CY	10"	REMOVE TREE
	38.605320	-121.474017	RW	8"	REMOVE TREE
	38.605321	-121.473938	RW	6"	REMOVE TREE
APN 274-0173-060	**38.605369**	**-121.474056**	**TREE**	**4"**	**TREE REMAIN**
NORTHGATE BLVD	38.605521	-121.475480	OAK	24"	REMOVE TREE
	38.605423	-121.475536	OAK	18"	REMOVE TREE
	38.605378	-121.475515	OAK	12"	REMOVE TREE
	38.605497	-121.475518	OAK	8"	REMOVE TREE



NOTES:
1. TREES, TREE STUMPS AND ROOT BALLS TO BE REMOVED PER DETAIL 1 ON SHEET C-203.
2. CONTRACTOR SHALL PROTECT ALL TREES NOT TO BE REMOVED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. GRID SYSTEM DESCRIPTION CAN BE FOUND ON SHEET G-005.

30' 15' 0 30'
SCALE: 1" = 30'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-LE-0629
FILE NAME: 9003.008C004.dwg
SPEC NO. 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1 SACRAMENTO, CA, 95817

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

TREE REMOVAL PLAN AND TABLE
(1 OF 2)

SHEET ID
C-004

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C004.dwg

READY TO ADVERTISE

TREE, STUMP AND ROOTBALL REMOVAL TABLE

APN	LAT	LONG	DESCRIPTION	DIAMETER	ACTION
APN 274-0173-013	38.605358	-121.472620	STUMP	12"	REMOVE STUMP
	38.605409	-121.472581	STUMP	12"	REMOVE STUMP
	38.605390	-121.472522	STUMP	12"	REMOVE STUMP
	38.605444	-121.472479	STUMP	12"	REMOVE STUMP
APN 274-0173-014	38.605413	-121.472405	STUMP	14"	REMOVE STUMP
	38.605492	-121.472321	STUMP	14"	REMOVE STUMP
	38.605519	-121.472219	STUMP	14"	REMOVE STUMP
	38.605456	-121.472261	STUMP	6"	REMOVE STUMP
	38.605471	-121.472212	STUMP	6"	REMOVE STUMP
	38.605471	-121.472417	STUMP	4"	REMOVE STUMP
APN 274-0173-015	38.605490	-121.472150	STUMP	14"	REMOVE STUMP
	38.605563	-121.472088	STUMP	14"	REMOVE STUMP
	38.605532	-121.472042	STUMP	8"	REMOVE STUMP
APN 274-0173-019	38.605596	-121.471984	STUMP	18"	REMOVE STUMP
	38.605587	-121.471891	STUMP	18"	REMOVE STUMP
	38.605603	-121.471815	STUMP	6"	REMOVE STUMP
	38.605545	-121.471791	STUMP	4"	REMOVE STUMP
	38.605618	-121.471769	STUMP	4"	REMOVE STUMP
APN 274-0173-020	38.605709	-121.471642	DEC	16"	REMOVE TREE
	38.605711	-121.471584	DEC	10"	REMOVE TREE
	38.605699	-121.471703	DEC	10"	REMOVE TREE
APN 274-0173-022	**38.605251**	**-121.473350**	**TREE**	**14"**	**TREE REMAIN**
	38.605272	**-121.473273**	**TREE**	**18"**	**TREE REMAIN**
	38.605316	**-121.473213**	**TREE**	**12"**	**TREE REMAIN**
	38.605270	**-121.473343**	**TREE**	**4"**	**TREE REMAIN**
APN 274-0173-023	38.605340	-121.472741	STUMP	20"	REMOVE STUMP
	38.605386	-121.472708	STUMP	12"	REMOVE STUMP
	38.605296	-121.472898	STUMP	10"	REMOVE STUMP
	38.605375	-121.472792	STUMP	4"	REMOVE STUMP
	38.605462	-121.472724	DEC (2-8")	16"	REMOVE TREE
APN 274-0173-025	38.605234	-121.474317	STUMP	12"	REMOVE STUMP
	38.605246	-121.474179	STUMP	12"	REMOVE STUMP
	38.605209	-121.474220	STUMP	16"	REMOVE STUMP
APN 274-0173-027	38.605310	-121.473092	STUMP	18"	REMOVE STUMP
	38.605311	-121.473032	STUMP	18"	REMOVE STUMP
	38.605262	-121.473146	STUMP	14"	REMOVE STUMP
	38.605287	-121.472954	STUMP	12"	REMOVE STUMP
APN 274-0173-033	38.605253	-121.474755	STUMP	8"	REMOVE STUMP
	38.605252	-121.474614	STUMP	8"	REMOVE STUMP
	38.605272	-121.474728	STUMP	6"	REMOVE STUMP
	38.605252	-121.474682	STUMP	6"	REMOVE STUMP
	38.605298	-121.474724	STUMP	6"	REMOVE STUMP
	38.605314	-121.474681	STUMP	6"	REMOVE STUMP
	38.605292	-121.474644	STUMP	6"	REMOVE STUMP
	38.605314	-121.474618	STUMP	6"	REMOVE STUMP
	38.605295	-121.474621	STUMP	6"	REMOVE STUMP
	38.605265	-121.474761	STUMP	4"	REMOVE STUMP
APN 274-0173-035	38.605287	-121.474440	STUMP	16"	REMOVE STUMP
	38.605274	-121.474549	STUMP	16"	REMOVE STUMP
	38.605204	-121.474376	STUMP	16"	REMOVE STUMP
	38.605250	-121.474508	STUMP	10"	REMOVE STUMP
	38.605239	-121.474444	STUMP	10"	REMOVE STUMP
APN 274-0173-036	38.605325	-121.474337	LARGE BUSH	N/A	REMOVE TREE
	38.605343	-121.474497	DEC (2-6")	12"	REMOVE TREE
	38.605341	-121.474481	CY	12"	REMOVE TREE
	38.605338	-121.474469	CY	12"	REMOVE TREE
	38.605372	**-121.474327**	**PALM**	**12"**	**TREE REMAIN**
	38.605335	-121.474461	CY	10"	REMOVE TREE
APN 274-0173-037	38.605208	-121.474071	STUMP	12"	REMOVE STUMP
	38.605211	-121.473960	STUMP	12"	REMOVE STUMP
	38.605261	-121.473876	STUMP	8"	REMOVE STUMP
	38.605258	-121.474040	STUMP	6"	REMOVE STUMP
	38.605262	-121.473961	STUMP	6"	REMOVE STUMP
	38.605256	-121.473859	STUMP	4"	REMOVE STUMP
APN 274-0173-039	38.605258	-121.473531	STUMP	18"	REMOVE STUMP
	38.605221	-121.473447	STUMP	8"	REMOVE STUMP
	38.605208	-121.473601	STUMP	8"	REMOVE STUMP
APN 274-0173-042	**38.605398**	**-121.473686**	**DEC (2-10")**	**30"**	**TREE REMAIN**
	38.605374	**-121.473627**	**DEC**	**8"**	**TREE REMAIN**
APN 274-0173-043	38.605261	-121.473723	STUMP	10"	REMOVE STUMP
	38.605279	-121.473633	STUMP	8"	REMOVE STUMP
	38.605272	-121.473682	STUMP	6"	REMOVE STUMP
	38.605193	-121.473738	STUMP	4"	REMOVE STUMP
	38.605264	-121.473698	STUMP	4"	REMOVE STUMP
	38.605261	-121.473715	STUMP	4"	REMOVE STUMP
	38.605257	-121.473813	STUMP	4"	REMOVE STUMP
	38.605255	-121.473803	STUMP	4"	REMOVE STUMP
	38.605249	-121.473664	STUMP	4"	REMOVE STUMP
APN 274-0173-045	38.605446	-121.472936	DEC (3-6")	16"	REMOVE TREE
	38.605412	-121.473001	DEC (2-8")	16"	REMOVE TREE
	38.605417	-121.473063	DEC	12"	REMOVE TREE
	38.605399	-121.473088	PALM	8"	REMOVE TREE
APN 274-0173-046	**38.605427**	**-121.473162**	**DEC (4-6")**	**24"**	**TREE REMAIN**
APN 274-0173-047	38.605516	-121.475466	DEC	24"	REMOVE TREE
	38.605506	-121.475447	OAK	24"	REMOVE TREE
	38.605283	-121.474911	STUMP	20"	REMOVE STUMP
	38.605286	-121.475081	STUMP	18"	REMOVE STUMP
	38.605340	-121.475142	STUMP	12"	REMOVE STUMP
	38.605357	-121.474989	STUMP	12"	REMOVE STUMP
	38.605351	-121.474960	STUMP	12"	REMOVE STUMP
	38.605308	-121.474841	STUMP	12"	REMOVE STUMP
	38.605337	-121.475410	STUMP	8"	REMOVE STUMP
	38.605321	-121.475328	STUMP	8"	REMOVE STUMP
	38.605319	-121.475246	STUMP	8"	REMOVE STUMP
	38.605366	-121.475171	STUMP	6"	REMOVE STUMP
	38.605328	-121.474981	STUMP	6"	REMOVE STUMP
	38.605294	-121.474806	STUMP	4"	REMOVE STUMP
APN 274-0173-049	38.605491	-121.472723	DEC (2-8")	16"	REMOVE TREE
	38.605467	-121.472760	DEC (2-8")	16"	REMOVE TREE
	38.605432	-121.472690	DEC (4-4")	16"	REMOVE TREE
	38.605455	-121.472784	ST 20" X 3' HI	20"X 3"	REMOVE TREE
APN 274-0173-050	**38.605522**	**-121.472722**	**DEC (2-8")**	**16"**	**TREE REMAIN**
APN 274-0173-054	**38.605484**	**-121.474827**	**TREE**	**36"**	**TREE REMAIN**
	38.605389	**-121.473412**	**PALM**	**10"**	**TREE REMAIN**
APN 274-0173-055	**38.605386**	**-121.473624**	**DEC (2-5")**	**10"**	**TREE REMAIN**
	38.605381	**-121.473580**	**DEC**	**6"**	**TREE REMAIN**
APN 274-0173-056	38.605378	-121.473448	DEC	4"	REMOVE TREE
	38.605375	-121.473465	DEC	4"	REMOVE TREE
	38.605347	-121.473423	CY	8"	REMOVE TREE
	38.605349	-121.473406	CY	8"	REMOVE TREE
	38.605348	-121.473414	CY	6"	REMOVE TREE
	38.605373	-121.473495	DEC	4"	REMOVE TREE
	38.605351	-121.473484	DEC	4"	REMOVE TREE
	38.605351	-121.473536	DEC	4"	REMOVE TREE
	38.605348	-121.473579	DEC	4"	REMOVE TREE
APN 274-0173-057	38.605371	-121.473308	PALM	25"	REMOVE TREE
	38.605398	-121.473168	DEC (4-6")	24"	REMOVE TREE
	38.605388	-121.473228	PALM	20"	REMOVE TREE
	38.605374	-121.473273	CACTUS(3-6")	18"	REMOVE TREE
	38.605397	-121.473291	DEC (2-8")	12"	REMOVE TREE
	38.605350	-121.473383	PALM	10"	REMOVE TREE
APN 274-0173-058	**38.605405**	**-121.473375**	**PALM**	**44"**	**TREE REMAIN**
APN 274-0173-059	38.605320	-121.473976	EV (DEAD)	2"	REMOVE TREE
	38.605326	-121.474055	CY	10"	REMOVE TREE
	38.605320	-121.474017	RW	8"	REMOVE TREE
	38.605321	-121.473938	RW	6"	REMOVE TREE
APN 274-0173-060	**38.605369**	**-121.474056**	**TREE**	**4"**	**TREE REMAIN**
NORTHGATE BLVD	38.605521	-121.475480	OAK	24"	REMOVE TREE
	38.605423	-121.475536	OAK	18"	REMOVE TREE
	38.605378	-121.475515	OAK	12"	REMOVE TREE
	38.605497	-121.475518	OAK	8"	REMOVE TREE

NOTES:
1. TREES, TREE STUMPS AND ROOT BALLS TO BE REMOVED PER DETAIL 1 ON SHEET C-203.
2. CONTRACTOR SHALL PROTECT ALL TREES NOT TO BE REMOVED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. GRID SYSTEM DESCRIPTION CAN BE FOUND ON SHEET G-005.

30' 15' 0 30'
SCALE: 1" = 30'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-LE-0629
FILE NAME: 9003.008C005.dwg

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
SACRAMENTO, CA, 95831

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

TREE REMOVAL PLAN AND TABLE
(2 OF 2)

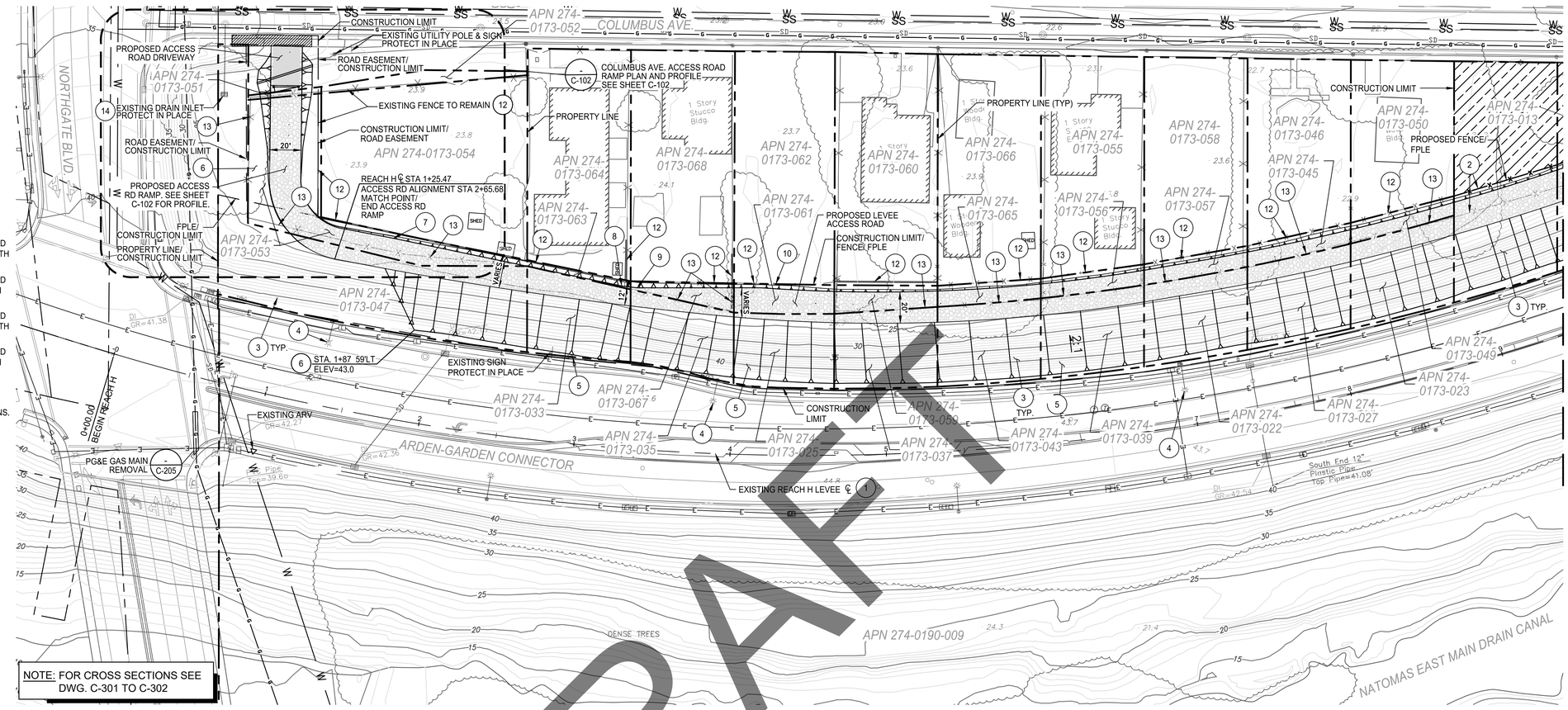
SHEET ID
C-005

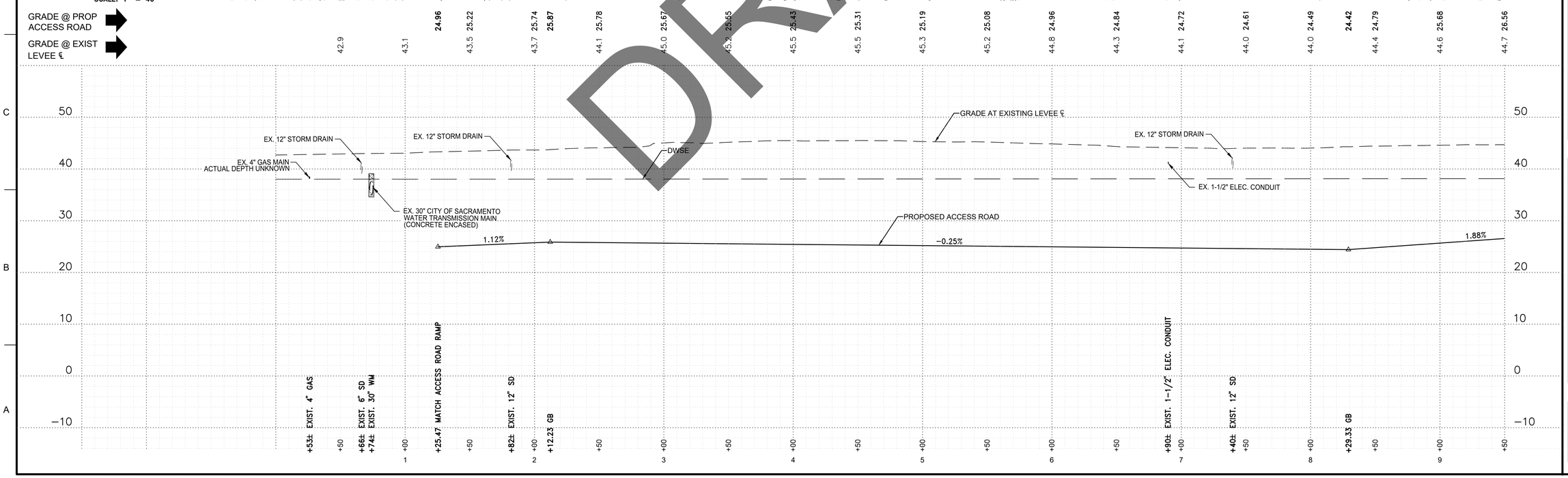
J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C005.dwg

READY TO ADVERTISE

CONSTRUCTION NOTES:

1. SEE DRAWING C-001 FOR CONTROL LINE AND CURVE DATA.
2. REMOVE EXISTING FENCE. CONSTRUCT CHAIN LINK FENCE W/ SLATS PER DETAILS ON SHEET C-204 AT PROPOSED LOCATION.
3. FOR TREE REMOVAL PLAN AND TABLE SEE SHEETS C-004 AND C-005.
4. EXISTING STREETLIGHT. PROTECT IN PLACE.
5. REMOVE LANDSCAPING AND IRRIGATION IN PATROL ROAD FOOTPRINT AND SLOPE FLATTENING AREAS.
6. EXISTING IRRIGATION TO REMAIN FUNCTIONAL. CAP IRRIGATION LINES WHERE SLOPE FLATTENING BEGINS (STA 1+87).
7. REACH H CL STA 1+61.92, 114.1' LT. (ACCESS ROAD ALIGNMENT STA 3+00) BEGIN ACCESS ROAD WIDTH TRANSITION (20' WIDE TO 12' WIDE).
8. REACH H CL STA 3+22.08, 103.4' LT. (ACCESS ROAD ALIGNMENT STA 4+50) END ACCESS ROAD WIDTH TRANSITION (20' WIDE TO 12' WIDE).
9. REACH H CL STA 3+32.73, 103.0' LT. (ACCESS ROAD ALIGNMENT STA 4+60) BEGIN ACCESS ROAD WIDTH TRANSITION (12' WIDE TO 20' WIDE).
10. REACH H CL STA 4+18.04, 106.9' LT. (ACCESS ROAD ALIGNMENT STA 5+40) END ACCESS ROAD WIDTH TRANSITION (12' WIDE TO 20' WIDE).
11. ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS. SEE GENERAL NOTE 10 ON DRAWING G-004.
12. EXISTING FENCE TO REMAIN, PROTECT IN PLACE.
13. REMOVING EXISTING FENCE.
14. CLEAR EXISTING INLETS OF DEBRIS.





DRAFT

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-LE-0629
FILE NAME: 9003.008C101.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1112 I STREET, SUITE 300
SACRAMENTO, CA 95814

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 5 OF 5)

NEMDC PLAN & PROFILE
REACH H STATIONS 0+00 TO 9+00

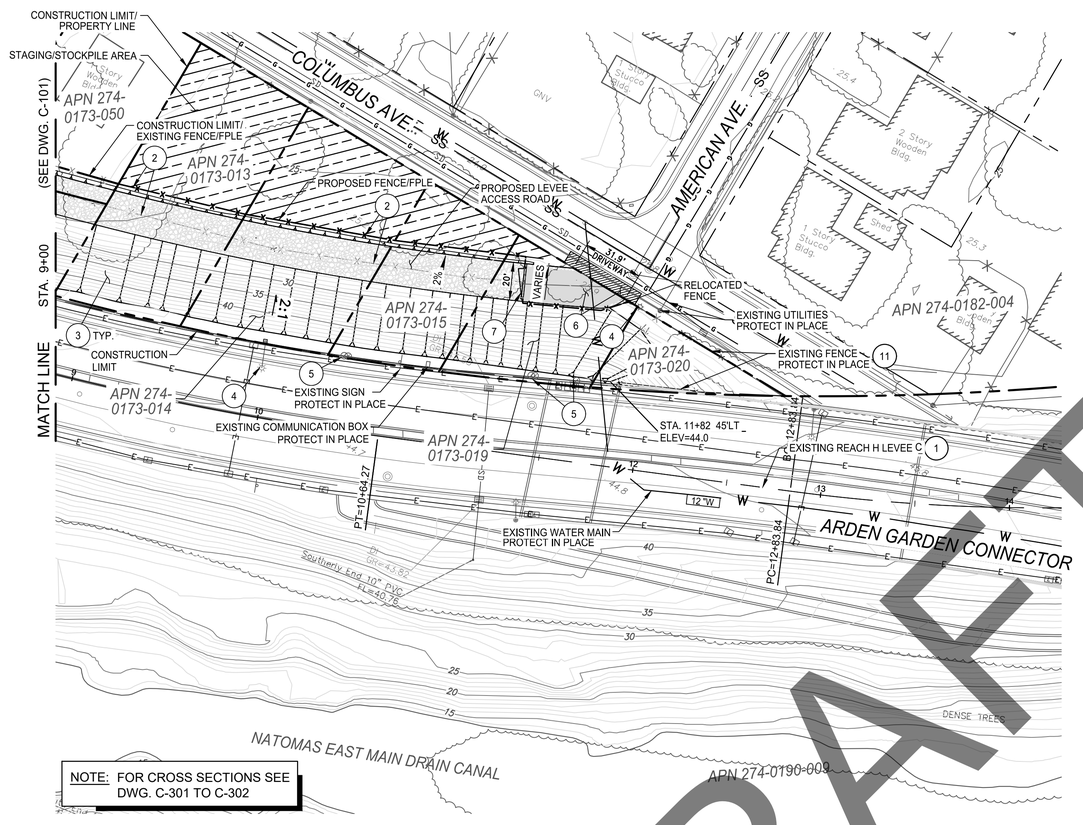
SHEET ID
C-101

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C101.dwg

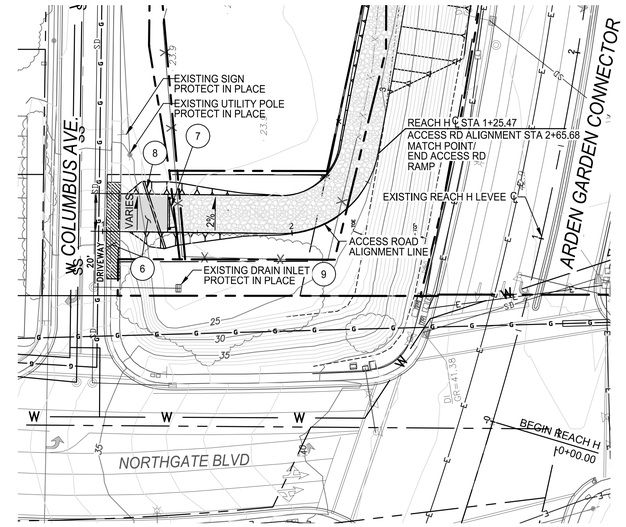
READY TO ADVERTISE

CONSTRUCTION NOTES:

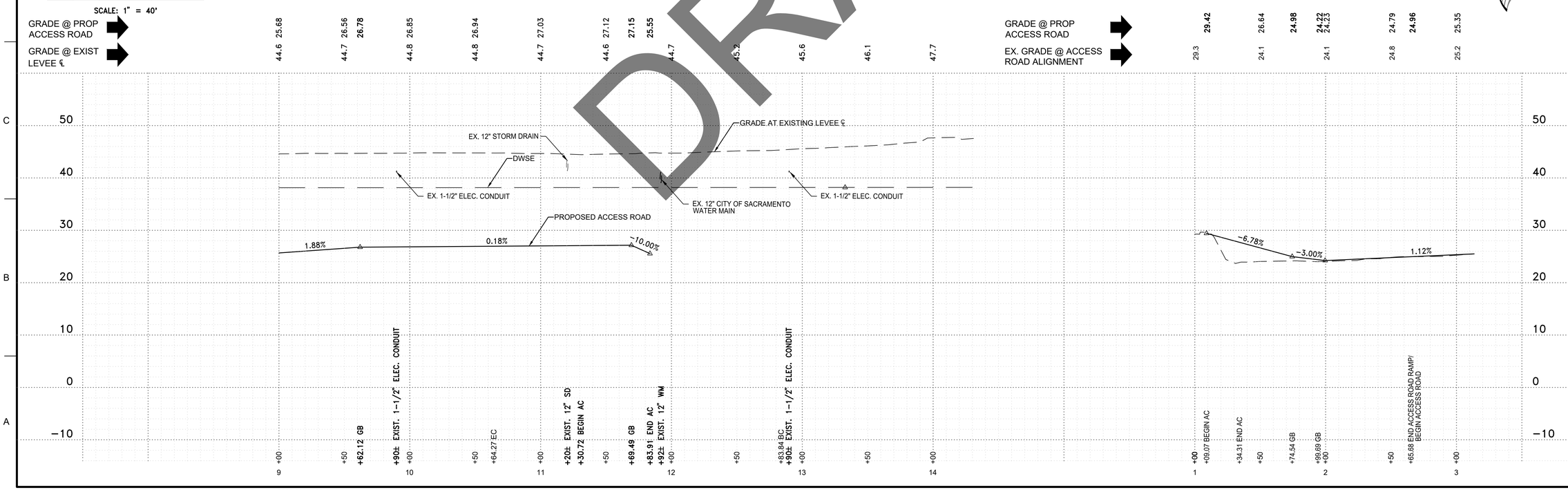
1. SEE DRAWING C-001 FOR CONTROL LINE AND CURVE DATA.
2. REMOVE EXISTING FENCE. CONSTRUCT CHAIN LINK FENCE W/ SLATS PER DETAILS ON SHEET C-204 AT PROPOSED LOCATION.
3. FOR TREE REMOVAL PLAN AND TABLE SEE SHEETS C-004 AND C-005.
4. EXISTING STREETLIGHT. PROTECT IN PLACE.
5. REMOVE LANDSCAPING AND IRRIGATION IN PATROL ROAD FOOTPRINT AND SLOPE FLATTENING AREAS.
6. SAWCUT AND REMOVE EXISTING CURB, GUTTER, AND SIDEWALK. CONSTRUCT SIDEWALK DRIVEWAY PER DETAILS ON SHEET C-202.
7. PLACE ACCESS ROAD ENTRY GATE PER DETAIL 2 ON SHEET C-203.
8. PLACE 38 LF OF 12" RCP DRAIN CULVERT W/ FLARED END SECTIONS AT PATROL ROAD CROSSING WITH EXISTING DITCH. CULVERT FL'S SHALL MATCH FL'S OF DITCH.
   S=0.013
   WEST END FL=23.5
   EAST END FL=24.0
9. CLEAR EXISTING INLET OF DEBRIS.
10. ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS. SEE GENERAL NOTE 10 ON DRAWING G-004.
11. EXISTING FENCE TO REMAIN, PROTECT IN PLACE.



NOTE: FOR CROSS SECTIONS SEE DWG. C-301 TO C-302



COLUMBUS AVE ACCESS ROAD RAMP PLAN AND PROFILE



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US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-AE-0029
FILE NAME: 9003.008C102.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
SACRAMENTO, CALIFORNIA

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

NEMDC PLAN & PROFILE
REACH STATIONS 9+00 TO 13+00
& COLUMBUS AVE ACCESS ROAD RAMP PLAN & PROFILE

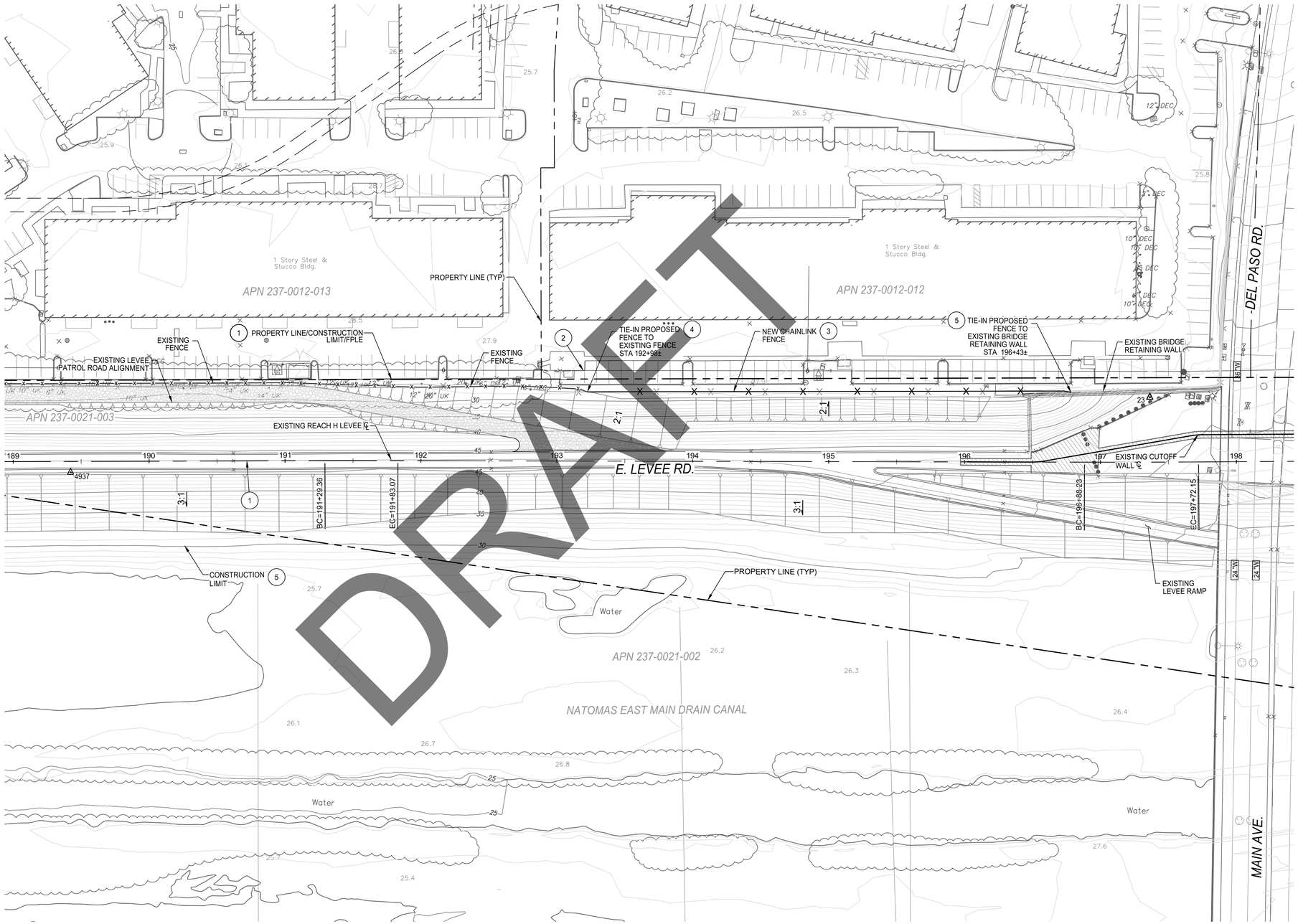
SHEET ID
C-102

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C102.dwg

READY TO ADVERTISE

CONSTRUCTION NOTES:

1. SEE REACH H IMPOVEMENT PLANS DWG C-002 FOR EXISTING CENTERLINE LINE AND CURVE DATA.
2. EXISTING OVERHEAD UTILITY. SEE NOTE 1 ON SHEET G-005.
3. REMOVE AND DISPOSE OF EXISTING BARBED WIRE FENCE. INSTALL CHAIN LINK FENCE PER DETAIL ON DWG C-204. CHAIN LINK FENCE SHALL FOLLOW ALIGNMENT OF EXISTING BARBED WIRE FENCE AND CONNECT TO EXISTING CHAIN LINK FENCE.
4. TIE-IN NEW FENCE TO THE EXISTING FENCE INSTALLED WITH REACH H PROJECT.
5. OVERLAP NEW CHAIN LINK FENCE WITH DEL PASO BRIDGE RETAINING WALL. TURN BACK LAST FENCE PANEL TOWARDS RETAINING WALL.; FENCE WING TO BE CANTILEVERED PANEL, SEE DETAIL 5, DWG C-203



SCALE: 1" = 40'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: H-E-00639
FILE NAME: 9003.008C103.dwg

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1400 EXPRESS STREET, SUITE 100
SACRAMENTO, CA 95811

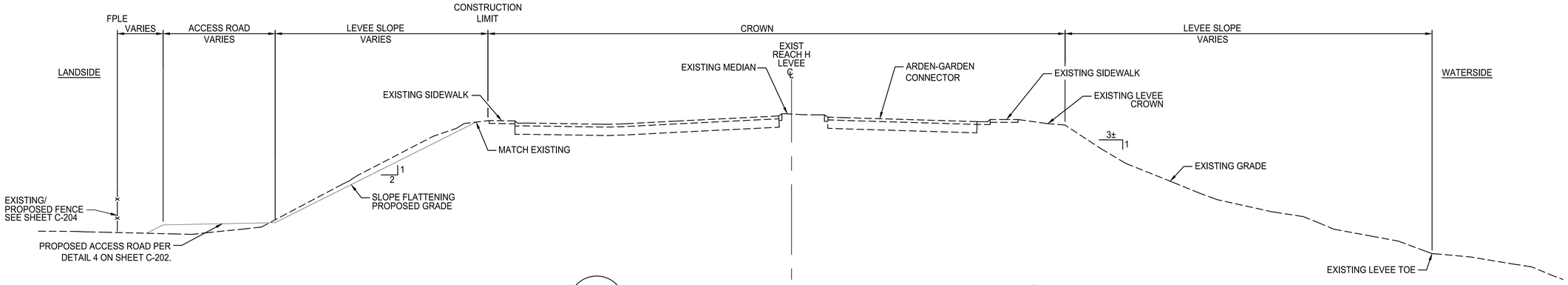
SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 15+00 (VOLUME 3 OF 3)

NEMDC PLAN
REACH STATIONS 189+00 TO 198+00
NEW CHAIN LINK FENCE

SHEET ID
C-103

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C103.dwg

READY TO ADVERTISE

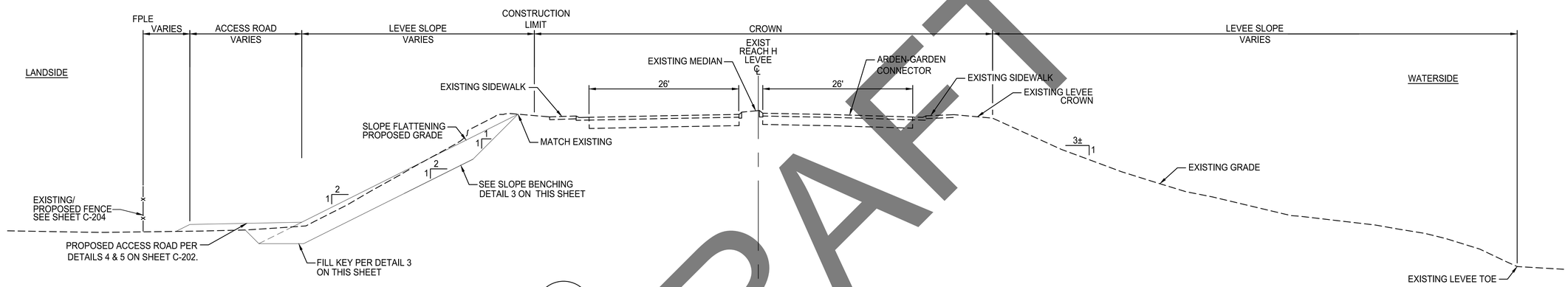


1 / - TYPICAL LEVEE SECTION (REACH H STA 1+60.30 TO 3+10.00)

SCALE: 1"=10'

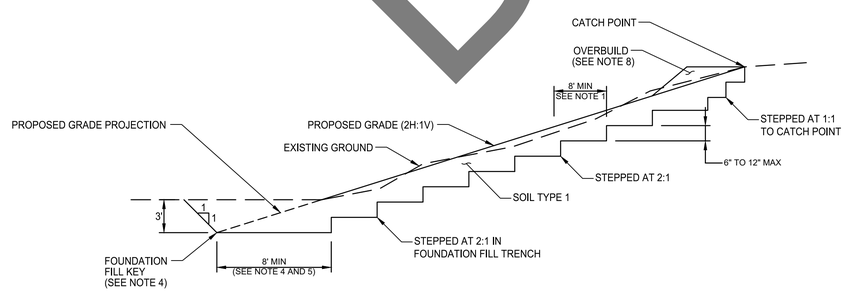
TYPICAL LEVEE SECTIONS NOTES:

1. EXISTING LEVEE OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE PROTECTED IN PLACE.



2 / - TYPICAL LEVEE SECTION (REACH H STA 3+10.00 TO 11+76.05)

SCALE: 1"=10'



3 / - FILL KEY AND SLOPE BENCHING DETAIL (LANDSIDE)

NTS

TYPICAL KEY AND SLOPE BENCHING NOTES:

1. SLOPE BENCHING TO OCCUR IN AREAS OF FILL ONLY. THE DEPTH OF BENCHING INTO THE LEVEE SLOPE FOR PLACEMENT OF SOIL FILL TYPE 1 SHALL BE LIMITED AND SHALL ONLY BE ENOUGH TO CREATE THE REQUIRED STEP HEIGHT FROM THE EXISTING LEVEE SLOPE.
2. MINIMUM EXCAVATION INTO EXISTING LEVEE SHALL BE ENOUGH TO PERFORM STRIPPING OPERATIONS IN ACCORDANCE WITH SECTION 31 11 00 OF THE PROJECT SPECIFICATIONS.
3. PLACE FILL IN HORIZONTAL LIFTS AGAINST VERTICAL FACES CUT INTO EXISTING LEVEE MATERIAL.
4. FOUNDATION FILL KEY IS NOT REQUIRED FOR ACCESS ROAD TOE.
5. THE BOTTOM OF THE KEY TRENCH SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND RECOMPACTED TO 95% MAXIMUM DENSITY PER ASTM D698.
6. THE GOVERNMENT'S GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING ALL EXCAVATION ACTIVITIES.
7. THE LEVEE KEY TRENCH SHALL BE INSPECTED BY THE GOVERNMENT'S GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF FILL.
8. OVERBUILD SLOPE AS REQUIRED TO MAINTAIN MINIMUM COMPACTION WIDTH. REMOVE OVERBUILD TO THE PROPOSED GRADE AFTER COMPACTION OF FILL. CONTRACTOR SHALL USE REMOVED OVERBUILD MATERIAL FOR CONSTRUCTION OF ACCESS ROAD, ACCESS ROAD RAMP, AND ACCESS ROAD DRIVEWAYS. NO SEPARATE PAYMENT WILL BE MADE FOR HAULING OF EXCESS MATERIAL OFF SITE.

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US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-4-2029
FILE NAME: 9003.008C201.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
SACRAMENTO, CALIFORNIA 95825

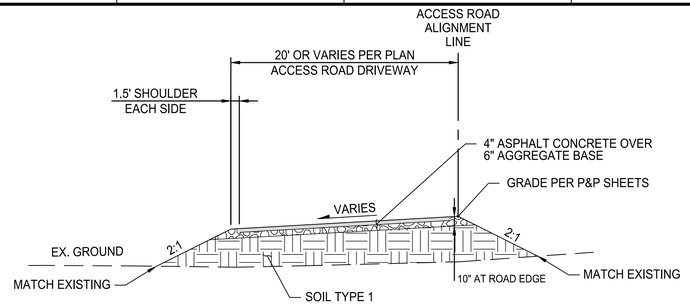
SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

TYPICAL SECTIONS AND DETAILS
(1 OF 5)

SHEET ID
C-201

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C201.dwg

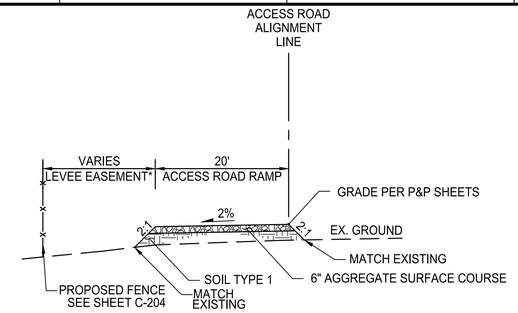
READY TO ADVERTISE



1 - TYPICAL PROPOSED ACCESS ROAD DRIVEWAY

NTS

ACCESS ROAD ALIGNMENT STA 1+09.07 TO 1+34.31
REACH H CL STA 11+76.05 TO 11+83.91

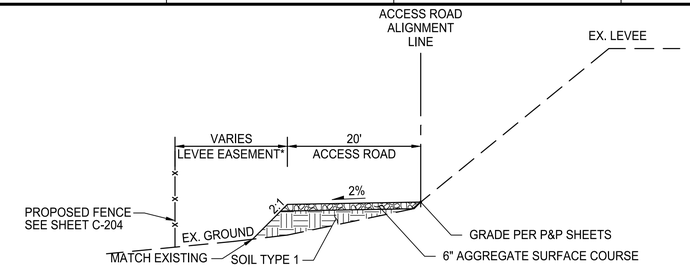


2 - TYPICAL PROPOSED ACCESS ROAD RAMP

NTS

ACCESS ROAD ALIGNMENT STA 1+34.31 TO 2+65.68

*PROPOSED FENCE TO BE PLACED AT FPLE OR ROAD EASEMENT UNLESS OTHERWISE SHOWN ON THE PLAN AND PROFILE SHEETS.

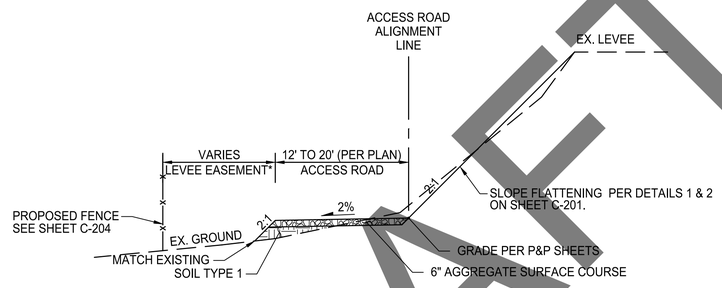


3 - TYPICAL PROPOSED ACCESS ROAD

NTS

REACH H CL STA 1+25.47 TO 1+60.30

*PROPOSED FENCE TO BE PLACED AT FPLE UNLESS OTHERWISE SHOWN ON THE PLAN AND PROFILE SHEETS.

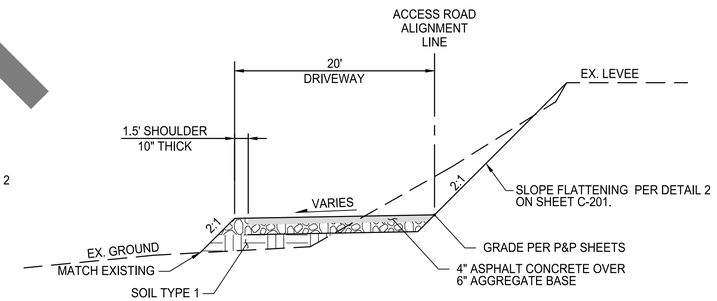


4 - TYPICAL PROPOSED ACCESS ROAD W/ SLOPE FLATTENING

NTS

REACH H CL STA 1+60.30 TO 11+30.72

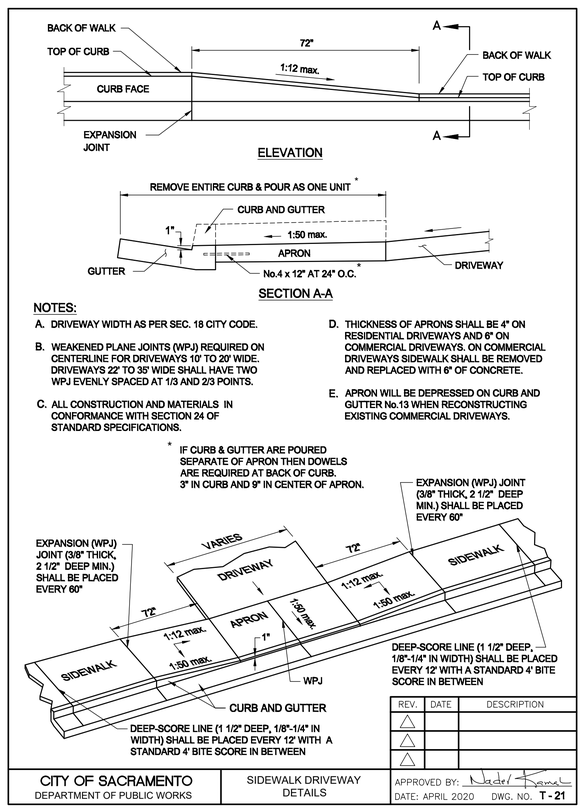
*PROPOSED FENCE TO BE PLACED AT FPLE UNLESS OTHERWISE SHOWN ON THE PLAN AND PROFILE SHEETS.



5 - TYPICAL PROPOSED ACCESS ROAD DRIVEWAY W/ SLOPE FLATTENING

NTS

REACH H CL STA 11+30.72 TO 11+76.05



NOTES:

A. DRIVEWAY WIDTH AS PER SEC. 18 CITY CODE.

B. WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR DRIVEWAYS 10' TO 20' WIDE. DRIVEWAYS 22' TO 35' WIDE SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS.

C. ALL CONSTRUCTION AND MATERIALS IN CONFORMANCE WITH SECTION 24 OF STANDARD SPECIFICATIONS.

D. THICKNESS OF APRONS SHALL BE 4" ON RESIDENTIAL DRIVEWAYS AND 6" ON COMMERCIAL DRIVEWAYS. ON COMMERCIAL DRIVEWAYS SIDEWALK SHALL BE REMOVED AND REPLACED WITH 6" OF CONCRETE.

E. APRON WILL BE DEPRESSED ON CURB AND GUTTER No.13 WHEN RECONSTRUCTING EXISTING COMMERCIAL DRIVEWAYS.

* IF CURB & GUTTER ARE POURED SEPARATE OF APRON THEN DOWELS ARE REQUIRED AT BACK OF CURB. 3" IN CURB AND 9" IN CENTER OF APRON.

REV.	DATE	DESCRIPTION
△		
△		
△		

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

SIDEWALK DRIVEWAY DETAILS

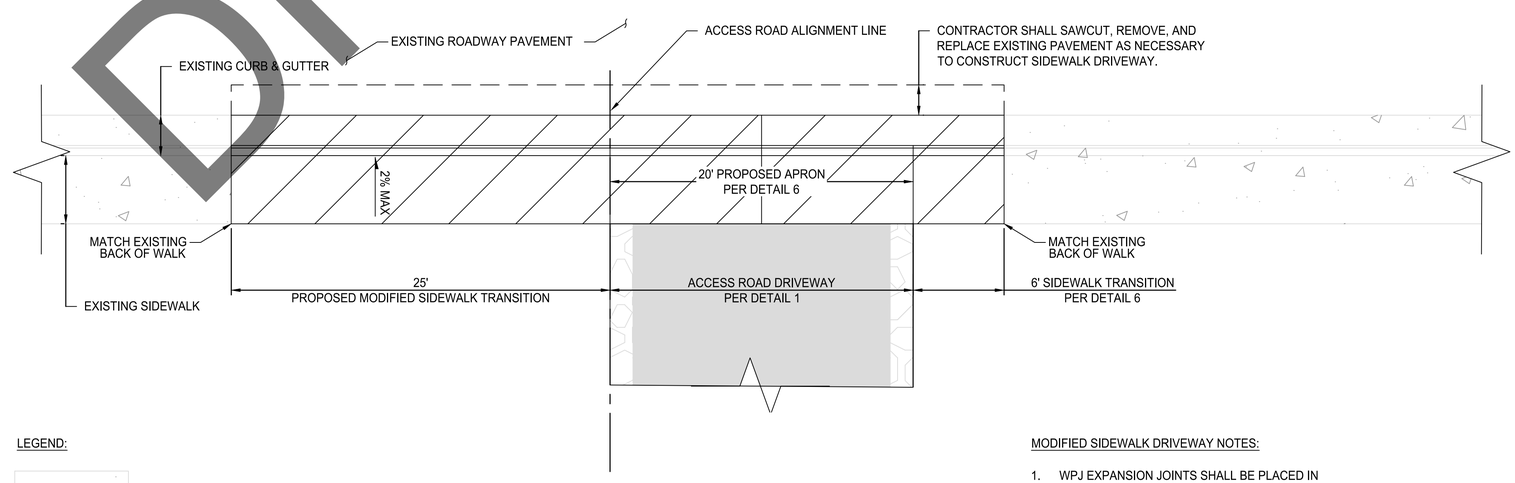
APPROVED BY: Nader Tomik
DATE: APRIL 2020 DWG. NO. T - 21

6 - SIDEWALK DRIVEWAY

NTS

SIDEWALK DRIVEWAY NOTES:

1. CONTRACTOR SHALL SAWCUT, REMOVE, AND REPLACE EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT SIDEWALK DRIVEWAY.



LEGEND:

EXISTING CURB, GUTTER, & SIDEWALK TO REMAIN

REMOVE EXISTING CURB, GUTTER, & SIDEWALK & CONSTRUCT SIDEWALK DRIVEWAY AS SHOWN

7 - MODIFIED SIDEWALK DRIVEWAY (PLAN)

SCALE: 1"=5'

MODIFIED SIDEWALK DRIVEWAY NOTES:

1. WPJ EXPANSION JOINTS SHALL BE PLACED IN ACCORDANCE WITH DETAIL 6 ON THIS SHEET.

2. SEE SECTION A-A ON DETAIL 6 FOR PROPOSED APRON TYPICAL SECTION.

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US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-4-2-0-0
FILE NAME: 9003.008C202.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1107 9TH STREET, SUITE 1000
SACRAMENTO, CA, 95814

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

TYPICAL SECTIONS AND DETAILS
(2 OF 5)

SHEET ID
C-202

J:\Jobs\8295_SAFCA\8295_Natomas Basin Project_Reach H\Civil\Dwg\Sub-Reach 1\9003.008C202.dwg

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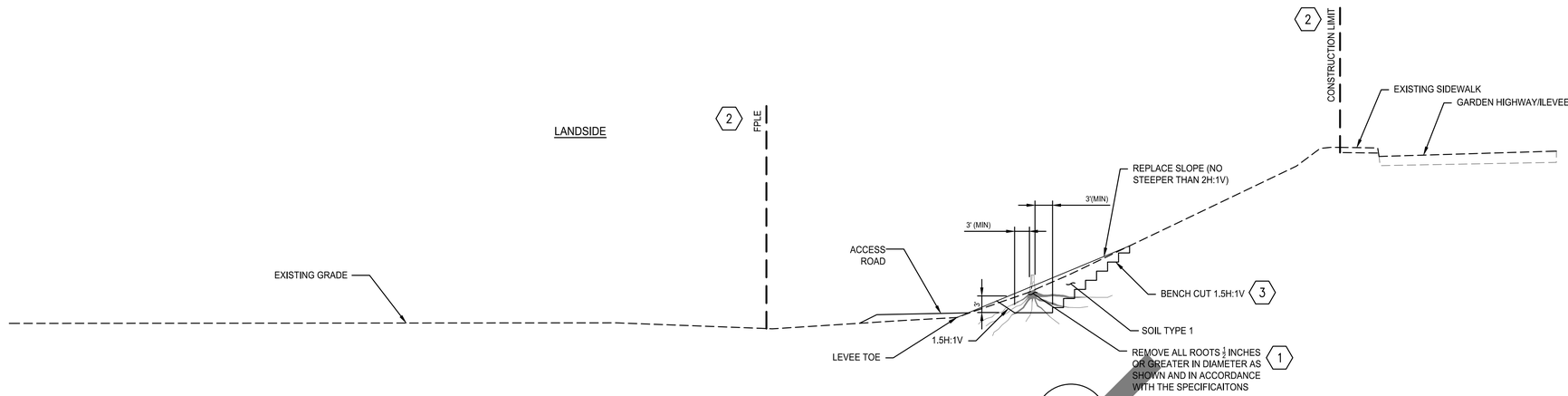
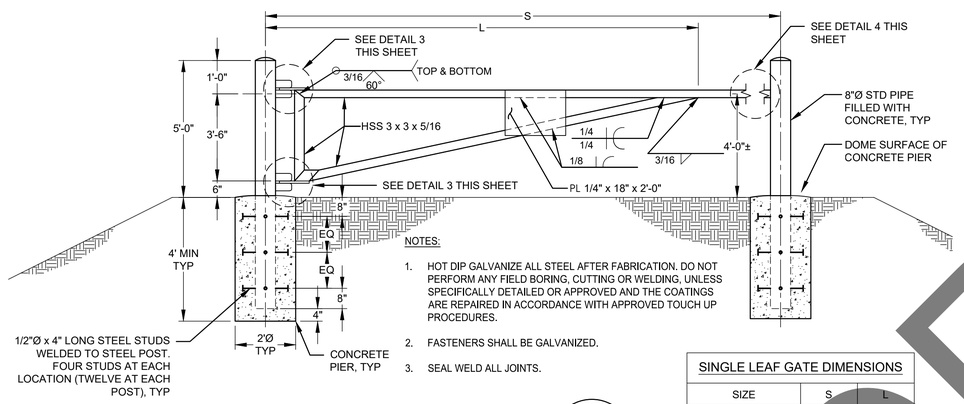


ROOT BALL AND STUMP REMOVAL LIMITS (1)
NTS

TREE REMOVAL NOTES:

1. PRIOR TO START OF CONSTRUCTION TREES WILL BE CUT AND REMOVED BY OTHERS. REMAINING STUMPS AND ROOT BALLS TO BE REMOVED BY CONTRACTOR PER DETAILS ON THIS SHEET. TREES IDENTIFIED FOR REMOVAL ARE SHOWN ON C-001.
2. CONSTRUCTION LIMIT & FPLE SHOWN IS TYPICAL. EXACT LOCATION IS SHOWN ON THE PLANS, SEE DWG C-002. TREES OUTSIDE OF THE FPLE (AT THE LANDSIDE LEVEE TOE) AND OUTSIDE OF THE CONSTRUCTION LIMITS (AT THE LEVEE CROWN) MUST NOT BE REMOVED.
3. PLACE FILL IN HORIZONTAL LIFTS AGAINST VERTICAL FACES CUT INTO EXISTING LEVEE MATERIAL.

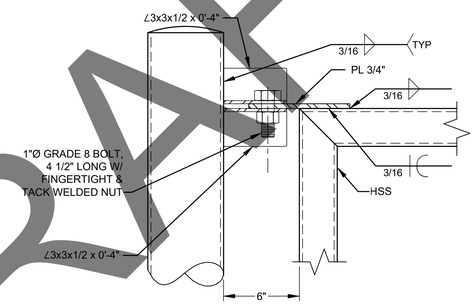


NOTES:

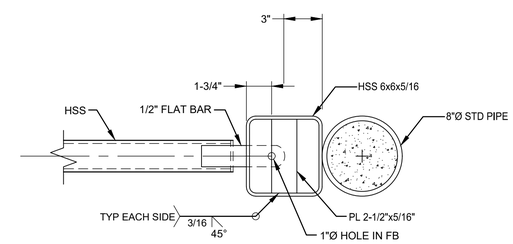
1. HOT DIP GALVANIZE ALL STEEL AFTER FABRICATION. DO NOT PERFORM ANY FIELD BORING, CUTTING OR WELDING, UNLESS SPECIFICALLY DETAILED OR APPROVED AND THE COATINGS ARE REPAIRED IN ACCORDANCE WITH APPROVED TOUCH UP PROCEDURES.
2. FASTENERS SHALL BE GALVANIZED.
3. SEAL WELD ALL JOINTS.

SINGLE LEAF GATE DIMENSIONS		
SIZE	S	L
16-FOOT GATE	16'-0"	13'-4"

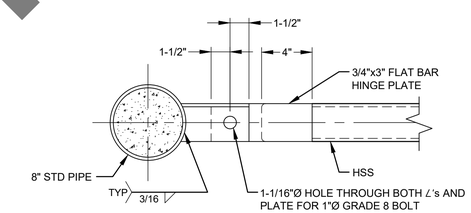
ACCESS ROAD ENTRY GATE (2)
NTS



ELEVATION

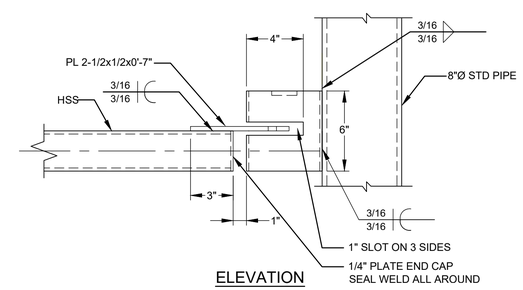


PLAN



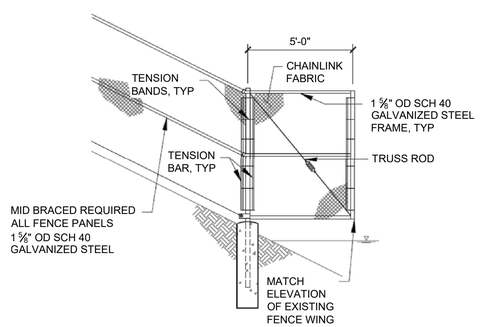
PLAN

GATE HINGE ASSEMBLY (3)
NTS



ELEVATION

GATE LATCH DETAIL (4)
NTS



NOTES:

1. FENCE WING SHALL BE 5'-0" CANTILEVERED PANEL WITH 1 ⅝" OD PIPE FRAME, AND SHALL MATCH THE HEIGHT OF ADJACENT FENCING. PANEL FRAME SHALL BE WELDED.

CANTILEVERED PANEL DETAIL (5)
NTS

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US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1.6-0000
FILE NAME: 9003.008C203.dwg
SPEC NO. 2079

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE ANSI D

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
1112 I STREET, SUITE 300
SACRAMENTO, CALIFORNIA 95814

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

TYPICAL SECTIONS AND DETAILS
(3 OF 5)

SHEET ID
C-203

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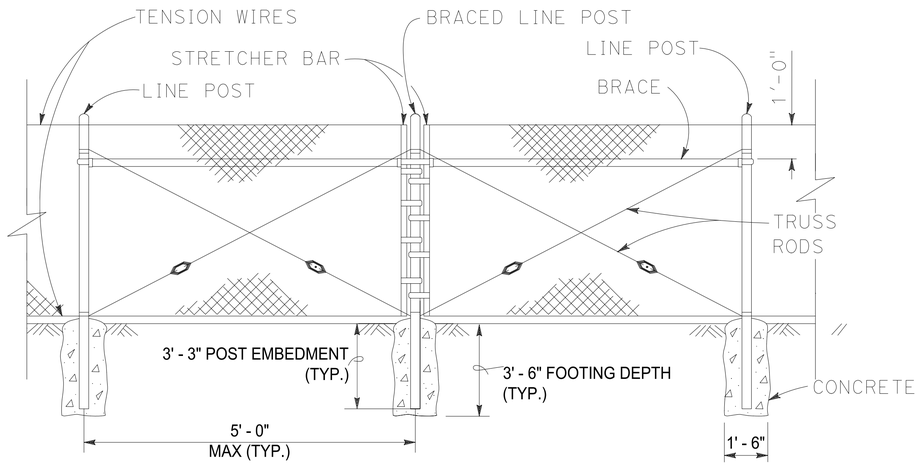
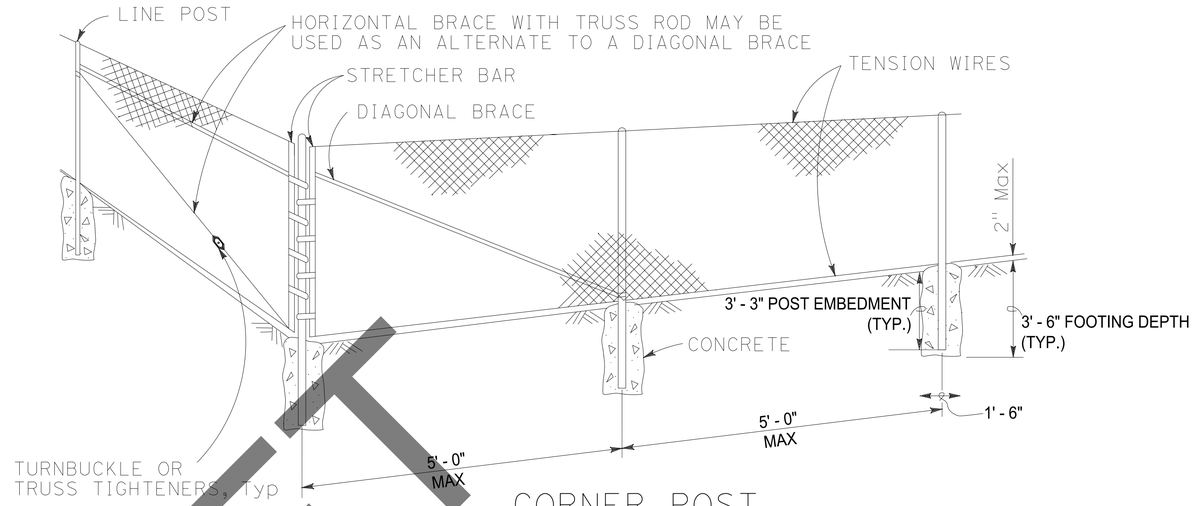
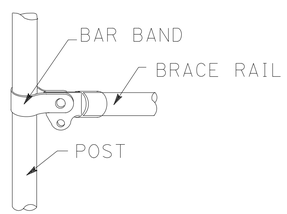


BRACED LINE POST INSTALLATION

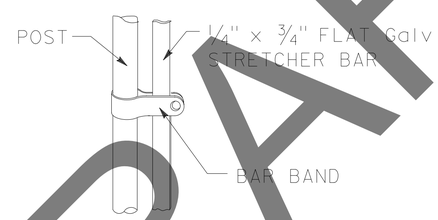
Braced line post at intervals not exceeding 1000'



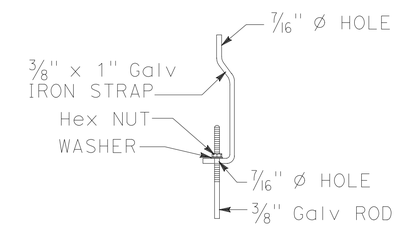
CORNER POST



BRACE RAIL



STRETCHER BAR



TRUSS TIGHTENER

TYPICAL MEMBER DIMENSIONS (See Notes)						
FENCE HEIGHT	LINE POSTS			BRACES		
	ROUND PIPE			ROUND PIPE		
	SECTION	ROUND OD PIPE	WEIGHT (lb/ft)	SECTION	ROUND OD PIPE	WEIGHT (lb/ft)
8'-0"	5 Std	5.56"	14.60	2 Std	2.38"	3.66

SLATTED CHAINLINK FENCE NOTES

1. ALL CHAINLINK FENCE MATERIALS SHALL MEET THE REQUIREMENTS OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, SECTION 80-3, UNLESS OTHERWISE STATED IN THESE NOTES.
2. TABLE SHOWS MINIMUM SIZED POSTS AND BRACES COMPLYING WITH THE CALTRANS STANDARD SPECIFICATIONS. LARGER OR HEAVIER POST AND BRACE SIZES MAY BE USED UPON APPROVAL.
3. LINE POSTS SHALL BE SCHEDULE 40 ROUND STEEL PIPE IN ACCORDANCE WITH ASTM F1083 AND SHALL MEET THE STRENGTH AND STIFFNESS REQUIREMENTS OF ASTM F1043.
4. CHAINLINK FABRIC SHALL BE 9 GAUGE WITH A 2-INCH DIAMOND MESH PATTERN AND BE GALVANIZED AFTER WEAVING, CONFORMING TO ASTM A392, CLASS 1.
5. FENCE SLATS SHALL BE HDPE WITH UV INHIBITORS, WITH A MELT INDEX OF 0.08 MINIMUM (ASTM D1238), DENSITY OF 0.95 MINIMUM (ASTM D1505), AND TENSILE STRENGTH OF 3,700 PSI MINIMUM (ASTM D638) AND PROVIDE A MINIMUM 85% PRIVACY FACTOR.
6. SLAT COLORS TO BE DETERMINED.

1 / - SLATTED CHAINLINK FENCE DETAILS
NTS

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MARK	DESCRIPTION	DATE

ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 14-0029
FILE NAME: 9003.008C204.dwg
SPEC NO. 2079

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE ANSI D

U.S. ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

PACIFIC CIVIL and STRUCTURAL CONSULTANTS, LLC
SACRAMENTO, CALIFORNIA

SACRAMENTO, CALIFORNIA
AMERICAN RIVER COMMON FEATURES PROJECT
NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 13+00 (VOLUME 3 OF 3)

TYPICAL SECTIONS AND DETAILS
(4 OF 5)

SHEET ID
C-204

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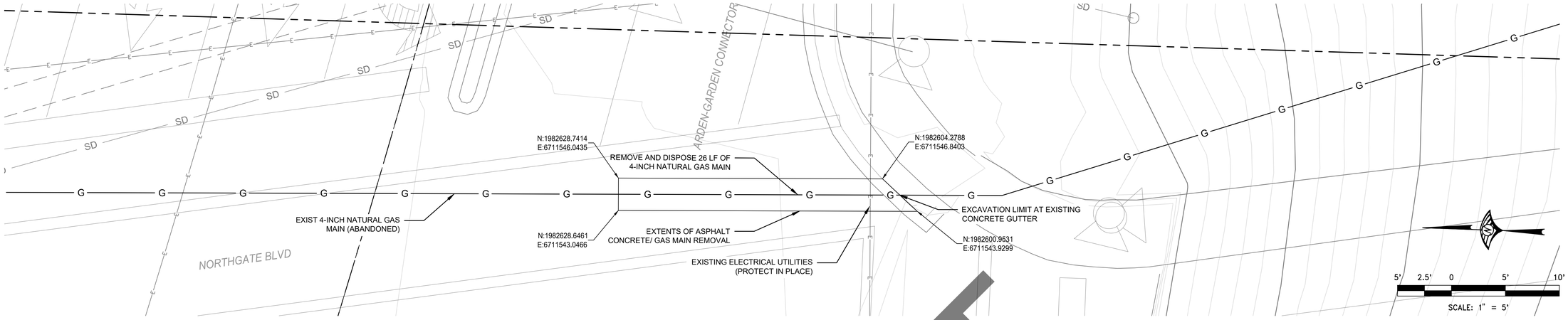
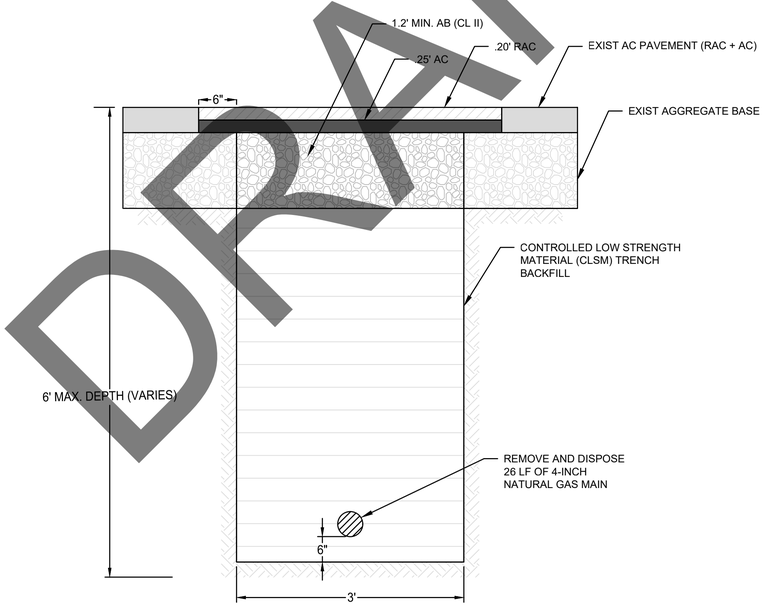


PLAN



SECTION

TYPICAL NOTES:

1. EXISTING PAVEMENT SHALL BE SAWCUT AND REMOVED IN SUCH A MANNER SO AS TO NOT TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT. SAWCUT EDGES SHALL BE CLEAN AND SQUARE WITH THE SURFACE.
2. THE REPLACEMENT PAVEMENT SECTION DIMENSIONS SHOWN ON THE PLANS ARE THE MINIMUM THICKNESS. THE REPLACEMENT SECTION SHALL CONFORM IN QUALITY AND THICKNESS TO THE EXISTING PAVEMENT REMOVED SO A THICKER SECTION MAY BE NECESSARY.
3. AGGREGATE BASE TO BE COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557.
4. NORTHING AND EASTING COORDINATES OF THE PROPOSED TRENCH EXCAVATION ARE APPROXIMATE. GAS LINE LOCATION SHALL BE VERIFIED USING POTHOLING EQUIPMENT PRIOR TO TRENCH EXCAVATION.
5. ROADWAY STRIPING IMPACTED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

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1 / - EXISTING GAS MAIN EXCAVATION, BACKFILL, AND RESURFACING
NTS

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DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1.4-2025
FILE NAME: 9003.008C205.dwg
SPEC NO: 2079

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NATOMAS BASIN REACH H - SUBREACH 1
STA 0+00 TO 15+00 (VOLUME 5 OF 5)

TYPICAL SECTIONS AND DETAILS
(5 OF 5)
PG&E GAS MAIN REMOVAL

SHEET ID
C-205

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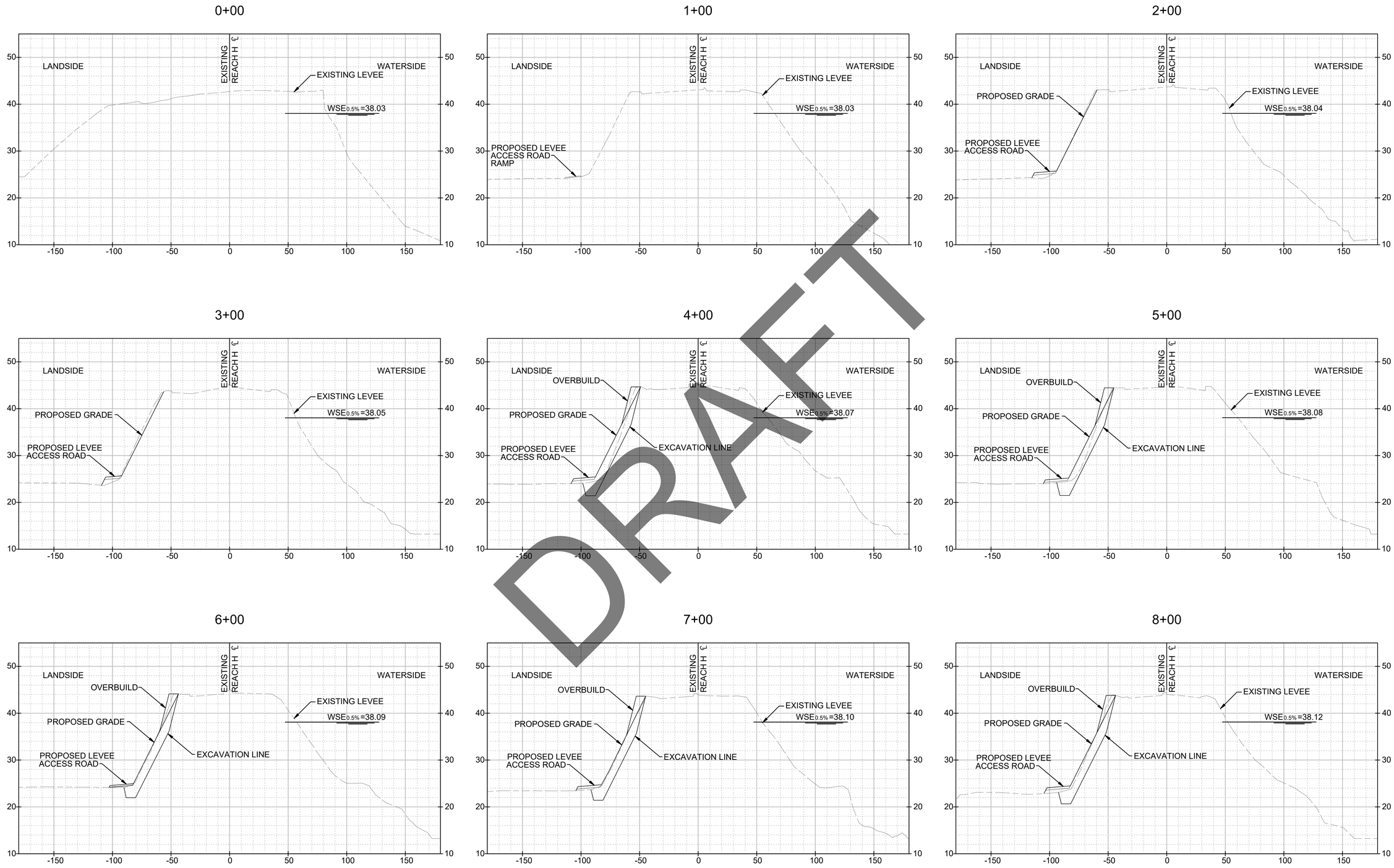

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DRAWN BY: M.Z., D.Z., D.L., J.M.P.	SOLICITATION NO.:
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SUBMITTED BY: P. BLUM	DESIGN FILE NO: H-E-0009
SIZE: ANSI D	SPEC NO: 2079
	FILE NAME: 9003.008C301-C302.dwg

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STA 0+00 TO 13+00 (VOLUME 3 OF 3)

NEMDC CROSS SECTIONS
STATIONS 0+00 TO 8+00

SHEET ID
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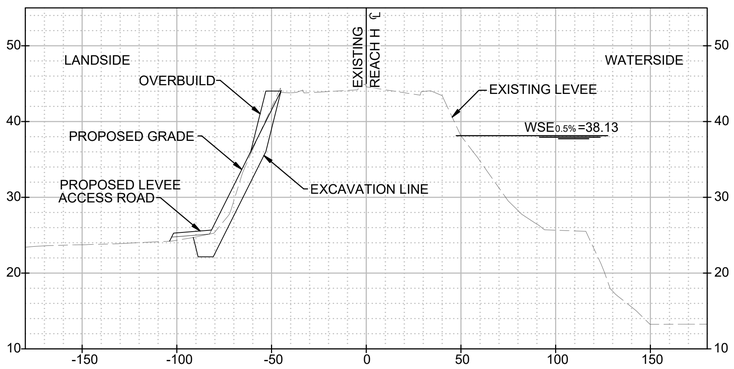

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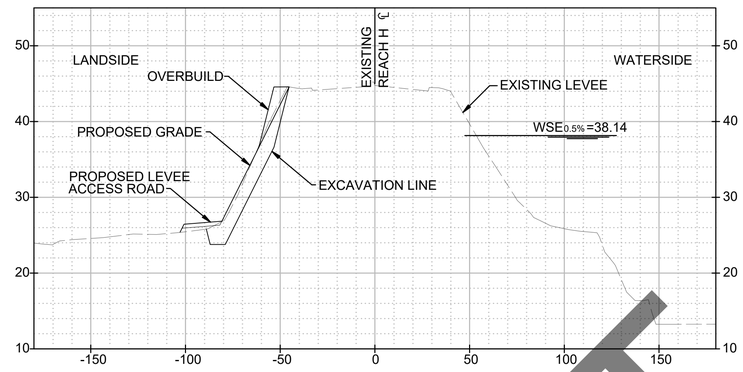

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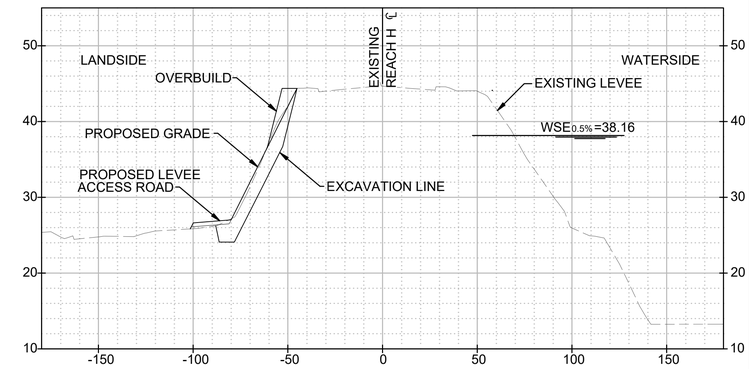

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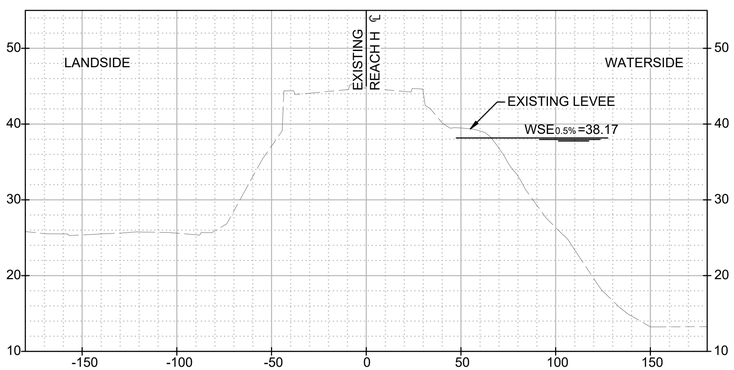
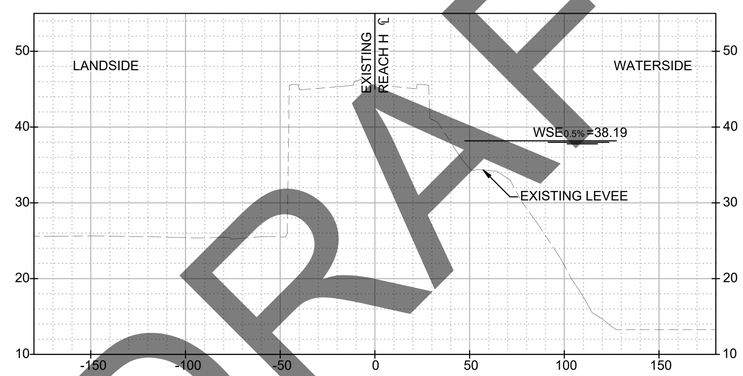


13+00



DRAFT

40' 20' 0 40' 80'
HORIZONTAL SCALE: 1" = 40'

10' 5' 0 10' 20'
VERTICAL SCALE: 1" = 10'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: P. BLUM, M.Z., D.L.
DRAWN BY: M.Z., D.Z., D.L., J.M.P.
CHECKED BY: J. KORS
SUBMITTED BY: P. BLUM
SIZE: ANSI D
ISSUE DATE: DECEMBER 2025
SOLICITATION NO.:
CONTRACT NO.:
DESIGN FILE NO: 1-4A-2029
FILE NAME: 9003.008C301-C302.dwg
SPEC NO: 2079

U.S. ARMY CORPS OF ENGINEERS
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NATOMAS BASIN REACH H - SUBREACH 1
STA 9+00 TO 13+00 (VOLUME 3 OF 3)

NEMDC CROSS SECTIONS
STATIONS 9+00 TO 13+00

SHEET ID
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