

APPENDIX A-1

***MALAKOFF DIGGINS STATE HISTORIC PARK PIT
DRAINAGE RUNOFF BMP CONSTRUCTION. SHEETS 1
– 18 (AUGUST 31, 2021)***

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION
ACQUISITION AND DEVELOPMENT DIVISION

MALAKOFF DIGGINS STATE HISTORIC PARK

PIT DRAINAGE RUNOFF BMP CONSTRUCTION

CSFM # [PERMIT NUMBER]

1. ALL MATERIALS SHOWN OR NOTED ON THE PLANS ARE NEW UNLESS CALLED OUT OTHERWISE.
2. THE CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY ALL EXISTING CONDITIONS AT THE SITE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STATE REPRESENTATIVE IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK.
3. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE FOLLOWING LISTED CODES, AND ALL OTHERS HAVING JURISDICTION OVER THE WORK.
2019 EDITION OF THE CALIFORNIA BUILDING CODE.
2019 EDITION OF THE CALIFORNIA FIRE CODE.
2019 EDITION OF THE CALIFORNIA ENERGY CODE.
2019 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2019 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2019 EDITION OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE.
2019 EDITION OF THE CALIFORNIA PLUMBING CODE.
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
2019 EDITION OF THE CALIFORNIA HISTORICAL BUILDING CODE.
4. CONDUCT ALL WORK IN ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION OVER THE WORK.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. WHERE DETAILED INFORMATION OR CLARIFICATION IS REQUIRED, THE MATTER SHALL BE REFERRED TO THE STATE REPRESENTATIVE FOR WRITTEN RESOLUTION.
6. THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS, BUT SHALL RELY ONLY ON THE WRITTEN DIMENSIONS GIVEN. IF A DISCREPANCY OCCURS OR NO DIMENSION IS GIVEN, THE CONTRACTOR SHALL NOTIFY THE STATE REPRESENTATIVE FOR WRITTEN CLARIFICATION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
7. THE CONTRACTOR SHALL USE APPROPRIATE MEANS AND METHODS TO ACCOMPLISH THE WORK OF THIS CONTRACT WITHOUT DAMAGING HISTORIC BUILDING COMPONENTS AND FABRIC TO REMAIN AS DIRECTED BY THE STATE REPRESENTATIVE.
8. WORK THAT DOES NOT MEET THE REQUIREMENTS SHALL BE CONSIDERED NON-COMPLIANT AND WILL NOT BE ACCEPTED BY THE STATE. ANY AREA WHICH IS NON-COMPLIANT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
9. TOPOGRAPHIC SURVEY TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC. DATED 2017 IN NAD83 CALIFORNIA STATE PLANE, ZONE II, US FOOT.
10. GEOTECHNICAL REPORT: GEOTECHNICAL INVESTIGATION, PIT DRAINAGE RUNOFF BMP DESIGN MALAKOFF DIGGINS STATE HISTORIC PARK, DRAFT MARCH 1, 2021 (GOLDER ASSOCIATES, INC.)

A

A1

SECTION NUMBER

SHEET NUMBER

1

A1

DETAIL NUMBER

SHEET NUMBER

1

REVISION NUMBER

X'-X"

DIMENSION LINE

CENTER LINE

X'-X"

DIMENSION LINE

FACE OF MATERIAL

X'-X"

FF

ELEVATION

MARKER

3050

EXISTING GROUND TOPOGRAPHY

(SEE GENERAL NOTE 9)

3050

PROPOSED FINISHED

GRADE TOPOGRAPHY (5')

○

TREE (EXISTING)

▨

GRAVEL DRIVE OR

RIPRAP PLACEMENT

SYMBOLS LEGEND

THE PURPOSE OF THIS PROJECT IS TO INSTALL BEST MANAGEMENT PRACTICES (BMPs) WITHIN THE HISTORIC MINE PIT IN ORDER TO CONTROL SEDIMENT LOAD LEAVING THE PIT SURFACE WATER RUNOFF. THE WORK WILL INCLUDE:

1. CONSTRUCTION OF ACCESS CAUSEWAYS AND STAGING AREAS.

2. CONSTRUCTION OF A SOLDIER PILE WALL AROUND THE CURRENT DRAINAGE OUTLET OF THE MINE PIT (HILLER TUNNEL).

3. CONSTRUCTION OF AN INTERCEPTOR SWALE TO DIVERT RUNOFF WATER TOWARD THE CENTRAL AND WEST END OF THE PIT.

4. CONSTRUCTION OF A ROCK GRADE CONTROL STRUCTURE ON THE EAST END OF THE PIT.

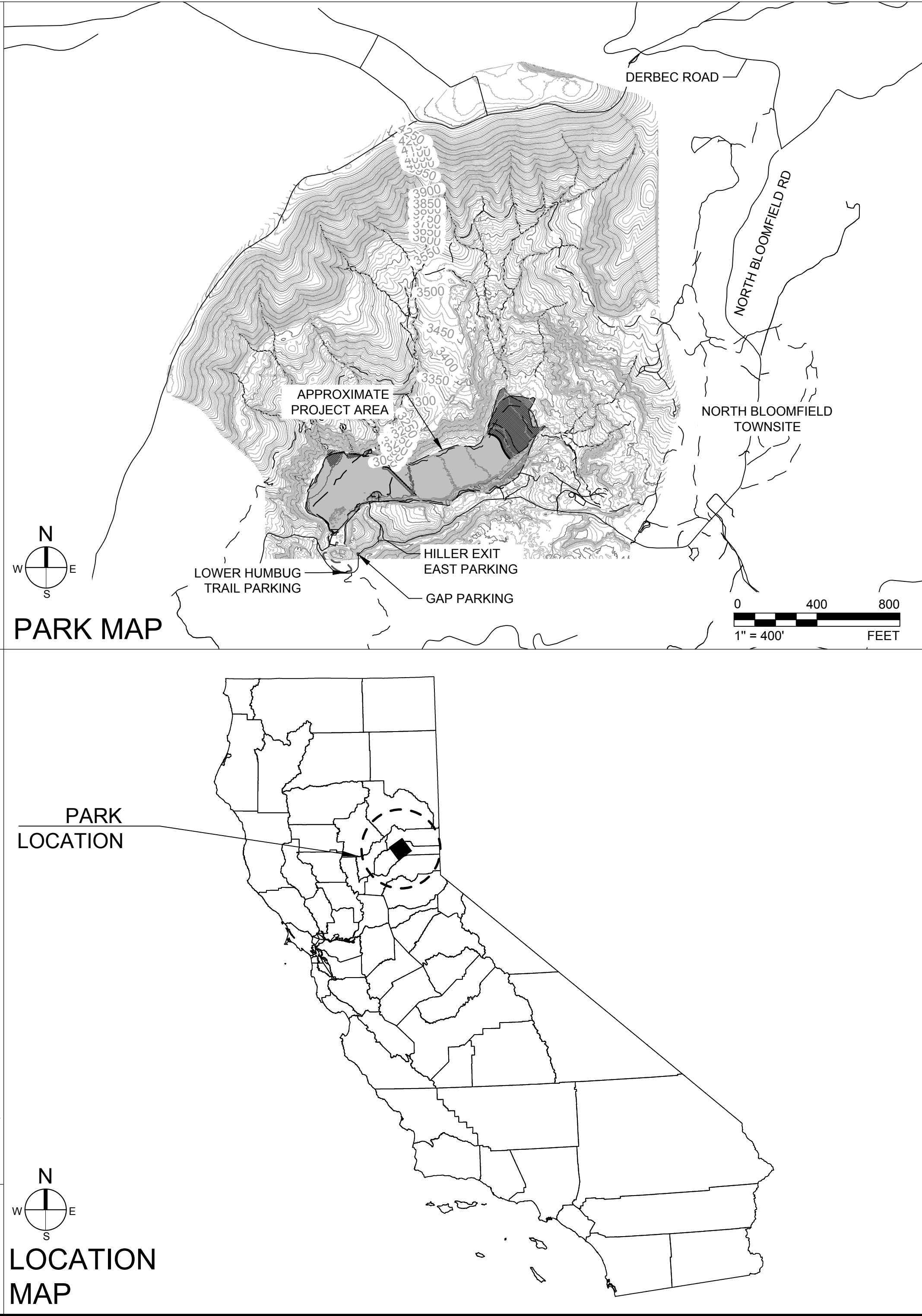
5. CONSTRUCTION OF BRUSH DAMS ACROSS CONCENTRATED FLOW AREAS OF THE PIT AND ACROSS THE EAST END OF THE PIT UPSTREAM OF THE GRADE CONTROL STRUCTURE.

6. INSTALL SOIL STABILIZERS AND FLOCCULANT LOGS.

SCOPE OF WORK

23579 N BLOOMFIELD RD,
NEVADA CITY, CA 95959

PARK ADDRESS





1 SP-1 TRAFFIC ROUTES WITH STAGING AREAS

AREA NAME	AREA (SQ. FT.)
IN-PIT CONSTRUCTION STAGING AREA	30,000
BOARDWALK STAGING AREA	9,250
SHOOTING RANGE STAGING AREA	28,300

- LEGEND
- ROADS
 - HIKING TRAILS

- NOTE(S)
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.
 - CONTRACTOR STAGING AREAS SHALL BE ENCLOSED WITH TEMPORARY FENCING AND LOCKABLE GATE.



ACQUISITION &
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One Capitol Mall
Sacramento, CA
95814-3229



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DPR ACCESS COMPLIANCE REVIEW
ACCESSIBILITY SECTION
CERTIFICATION # _____

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ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER



DESIGNED: KWW
DRAWN: REDMOND
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DATE: 08-31-2021

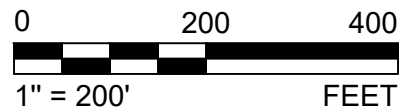
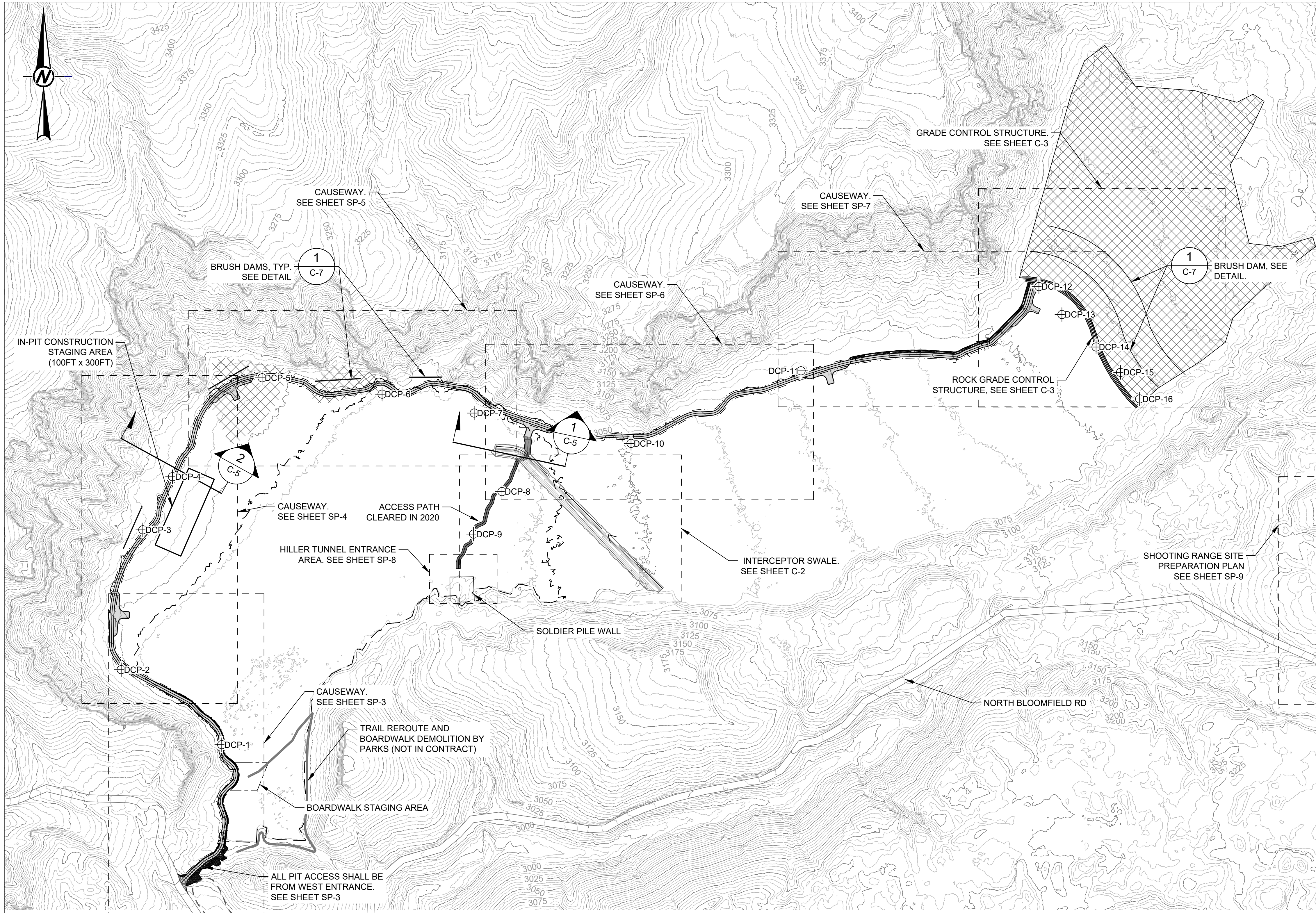
REVISIONS	
DATE	
ISSUED FOR RWQCB REVIEW	08/31/21

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION

CONTRACTOR STAGING AREA AND
TRAFFIC PLAN

DRAWING NO.
154490214-02

SHEET NO.
SP-1



LEGEND	
	EXISTING MAJOR CONTOUR (25 FT)
	EXISTING MINOR CONTOUR (5 FT)
	100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
	BRUSH DAM
	PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
	DYNAMIC CONE PENETROMETER TEST LOCATION
	ACCESS CAUSEWAY
	ACCESS ROAD TEMPORARY CONSTRUCTION MATS
	SOIL STABILIZER APPLICATION AREA (SEE NOTE 3)

NOTE(S)

- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.
- SOIL STABILIZER CAN BE APPLIED AS A POWDER OR SPRAYED AS A LIQUID. PRODUCT MUST BE NON-TOXIC.



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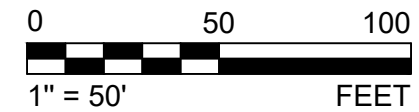
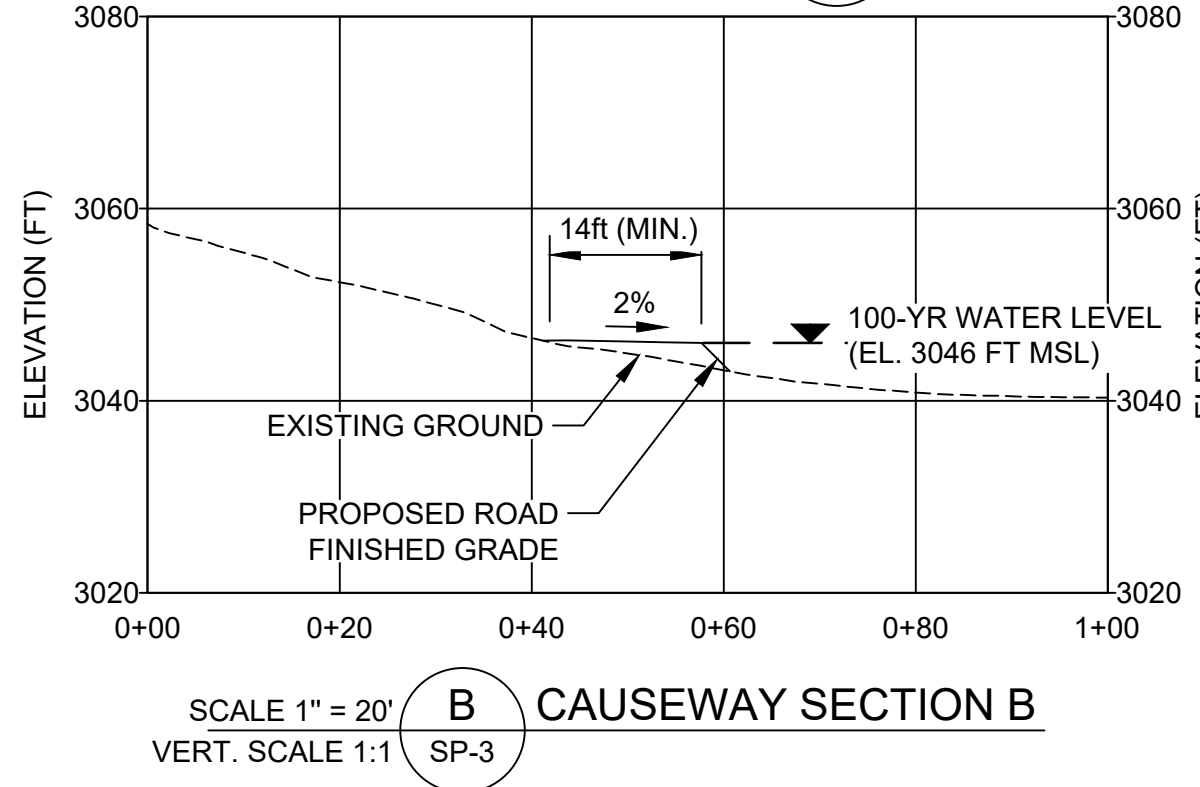
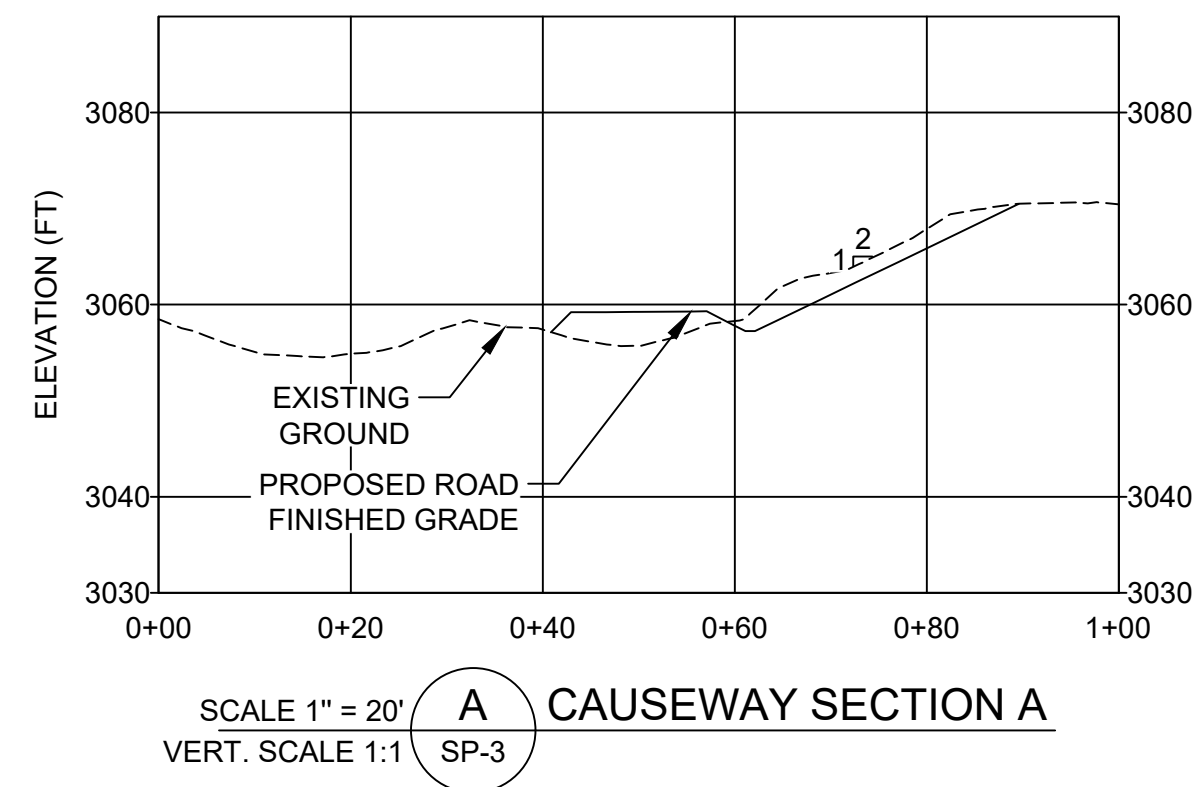
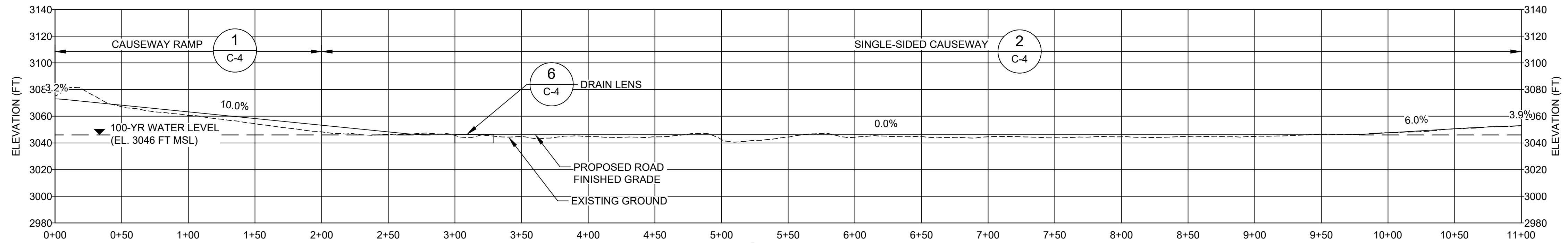
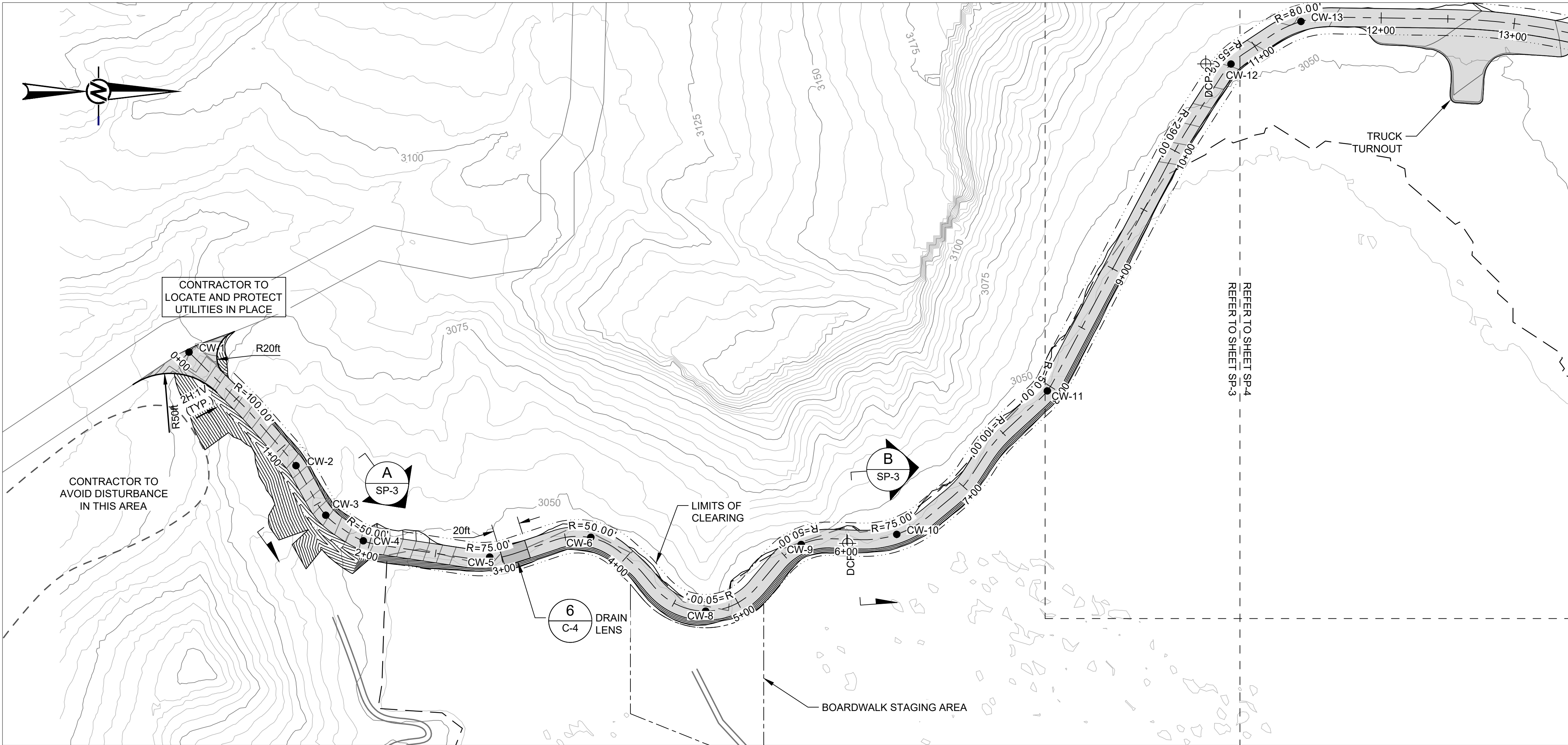
REVISIONS	
	DATE
ISSUED FOR RWQCB REVIEW	09/31/21

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
SITE PLAN AND ACCESS
CAUSEWAY CONSTRUCTION

DRAWING NO.
154490214-03

SHEET NO.
SP-2

03 OF 18




LEGEND


- 3050 EXISTING MAJOR CONTOUR (25 FT)
- 3055 EXISTING MINOR CONTOUR (5 FT)
- 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- DYNAMIC CONE PENETROMETER TEST LOCATION
- ACCESS ROAD
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS
- SOIL STABILIZER APPLICATION AREA (SEE NOTE 3)

CONTROL POINT TABLE			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
CW-1	2261195.02	6865477.31	3073.00
CW-2	2261275.30	6865562.43	3061.58
CW-3	2261297.61	6865599.64	3057.23
CW-4	2261325.81	6865618.86	3053.80
CW-5	2261420.59	6865631.05	3046.18
CW-6	2261496.47	6865616.15	3046.16
CW-8	2261582.58	6865671.61	3046.15
CW-9	2261654.30	6865621.58	3046.15
CW-10	2261726.00	6865614.02	3046.15
CW-11	2261838.92	6865506.33	3046.15
CW-12	2261976.73	6865261.06	3052.08
CW-13	2262029.24	6865229.11	3053.90
CW-14	2262306.67	6865260.72	3057.25
CW-15	2262499.96	6865391.13	3061.30
CW-16	2262540.12	6865397.84	3060.87
CW-17	2262713.78	6865476.69	3061.32
CW-18	2262760.85	6865511.57	3059.47
CW-19	2262978.17	6865648.34	3060.69
CW-20	2262986.72	6865915.18	3048.47
CW-21	2262945.48	6865985.27	3048.50
CW-22	2262963.13	6866141.84	3047.10
CW-23	2262984.58	6866191.24	3046.15
CW-24	2262947.88	6866271.06	3046.15
CW-25	2262983.17	6866369.73	3046.65
CW-26	2262958.23	6866512.64	3046.15
CW-27	2262903.63	6866582.48	3046.15
CW-28	2262811.37	6866836.19	3049.34
CW-29	2262796.55	6867146.68	3051.91
CW-30	2262873.70	6867306.14	3055.30
CW-31	2262880.56	6867391.59	3056.78
CW-32	2262937.77	6867448.22	3059.62
CW-33	2262961.92	6867563.05	3060.25
CW-34	2263078.62	6867975.55	3067.45
CW-35	2263081.60	6868256.78	3073.30
CW-36	2263094.58	6868283.42	3073.73
CW-37	2263119.43	6868345.03	3074.75
CW-38	2263126.28	6868371.22	3075.16
CW-39	2263252.78	6868496.82	3077.08
CW-40	2263345.46	6868525.57	3078.14

- NOTE(S)**
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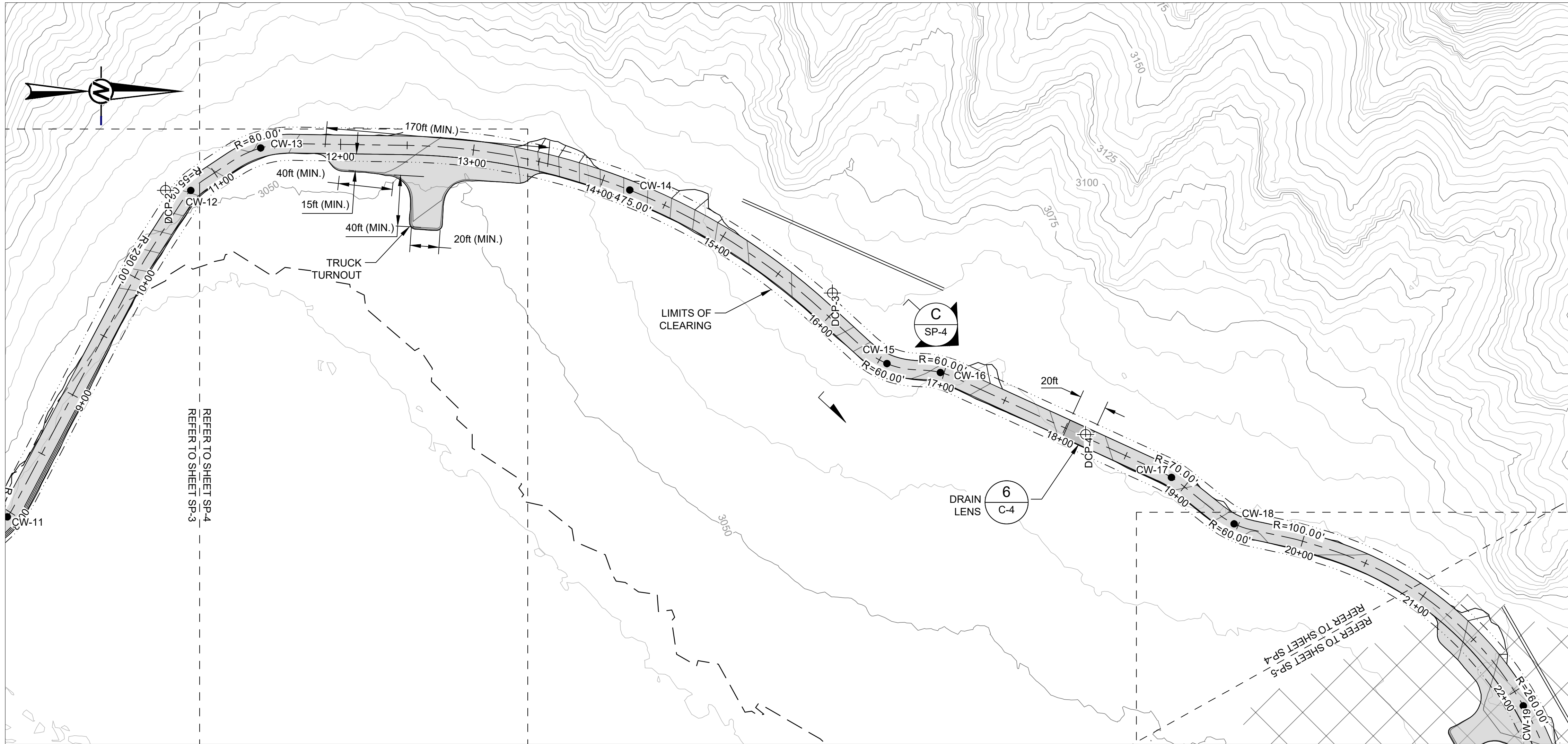
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION

**CAUSEWAY
PLAN AND PROFILE (1 OF 5)**

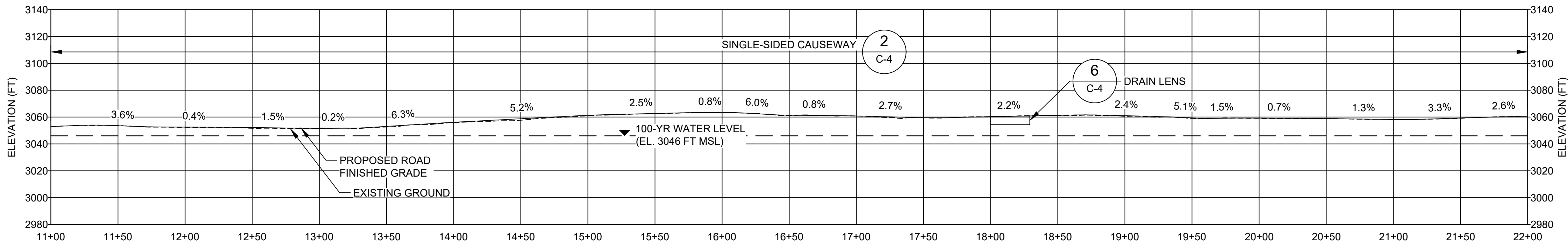
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154490214-04

SHEET NO.
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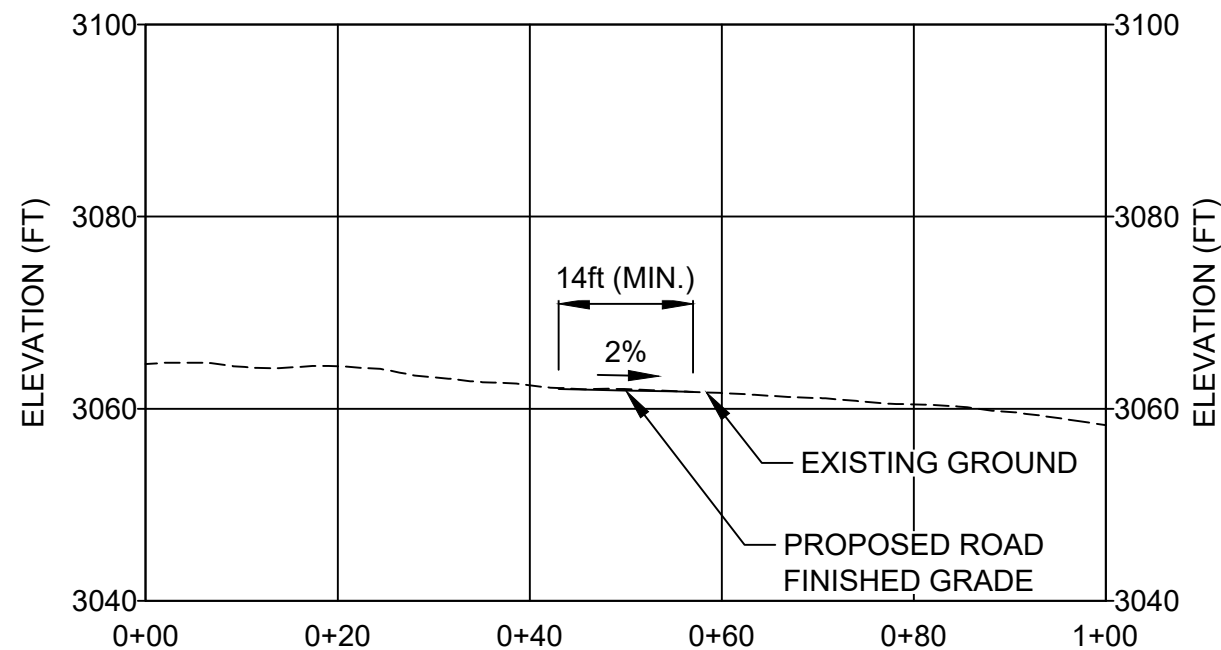
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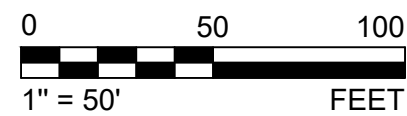
CAUSEWAY PLAN VIEW
SCALE 1" = 50'



SCALE 1" = 50'
VERT. SCALE 1:1
B CAUSEWAY PROFILE B
SP-4



SCALE 1" = 20'
VERT. SCALE 1:1
C CAUSEWAY SECTION C
SP-4



LEGEND

- 3050 EXISTING MAJOR CONTOUR (25 FT)
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NOTE(S)

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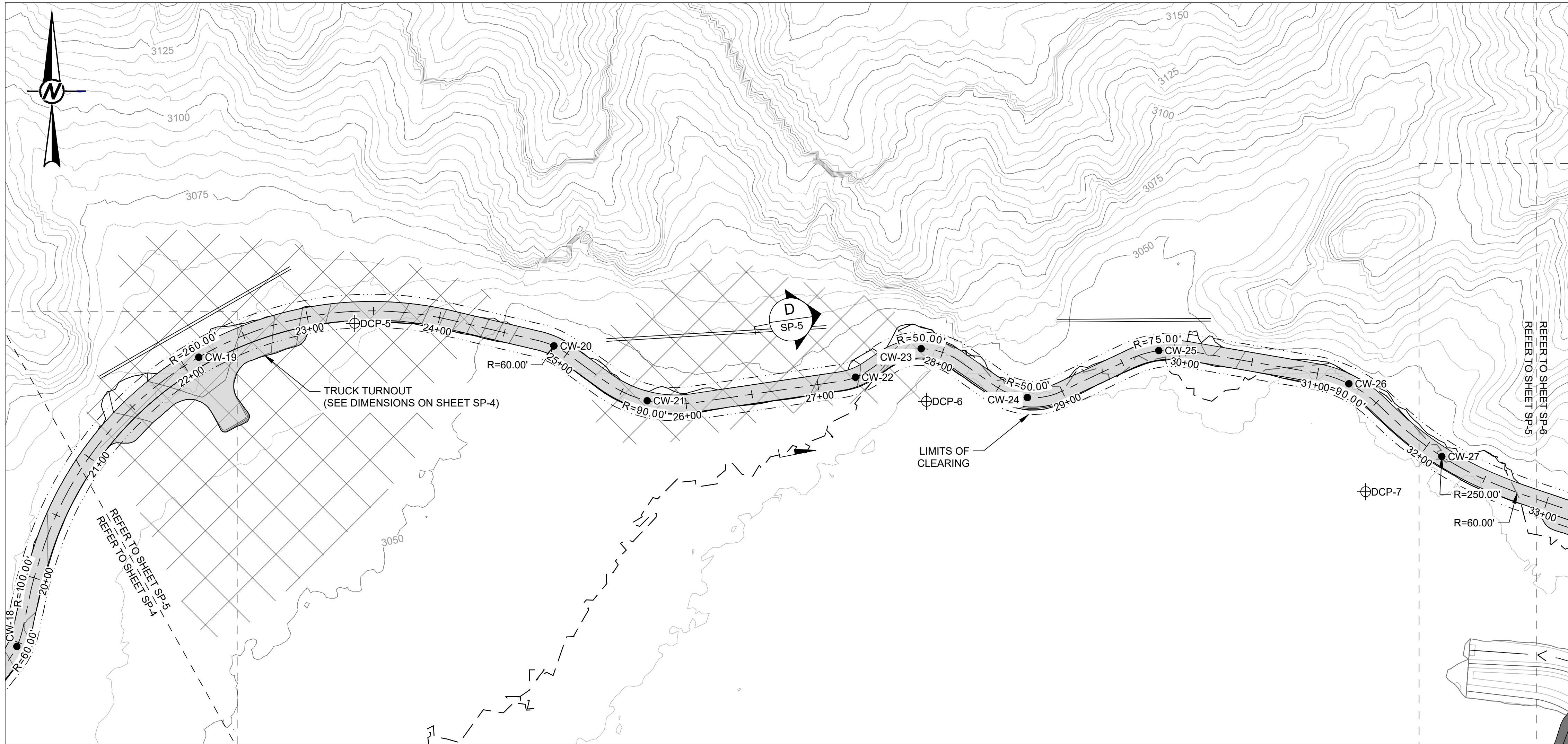
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DATE	
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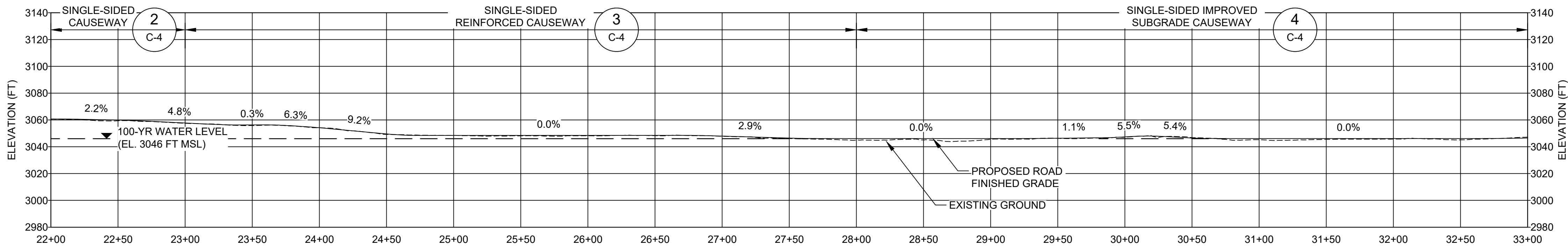
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PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (2 OF 5)

DRAWING NO.
154490214-05

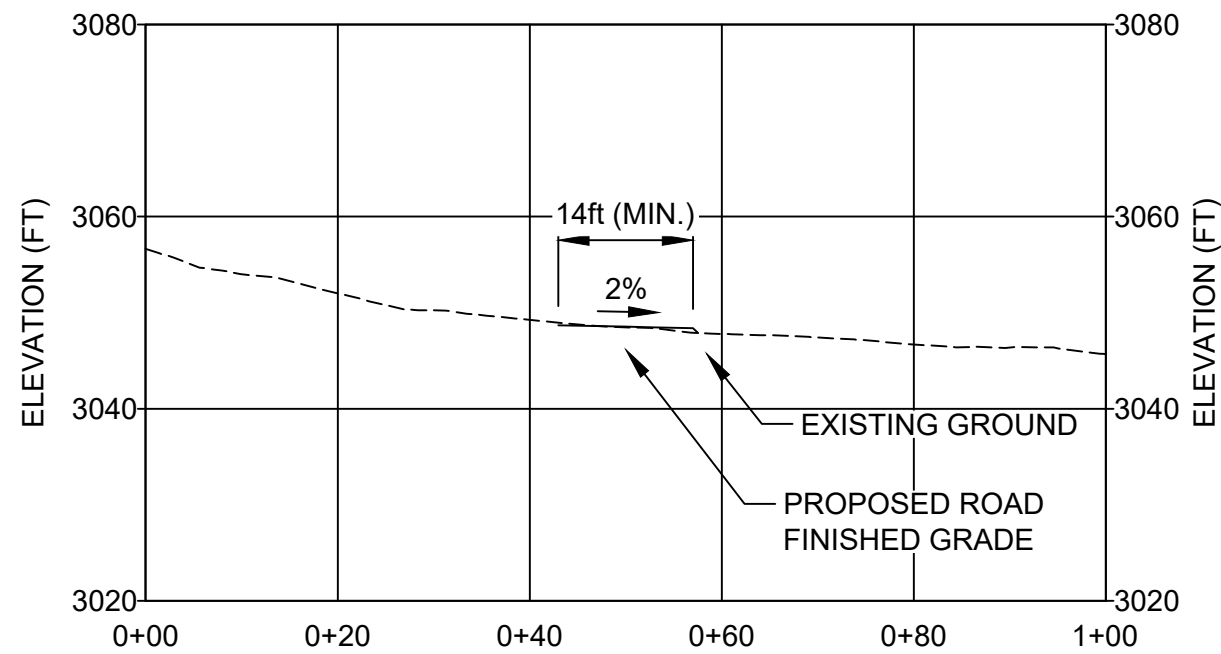
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SP-4



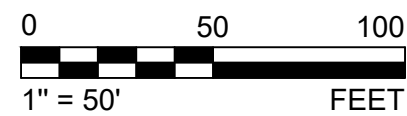
CAUSEWAY PLAN VIEW
SCALE 1" = 50'



SCALE 1" = 50'
VERT. SCALE 1:1
C
SP-5
CAUSEWAY PROFILE C



SCALE 1" = 20'
VERT. SCALE 1:1
D
SP-5
CAUSEWAY SECTION D



LEGEND

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DPR ACCESS COMPLIANCE REVIEW
ACCESSIBILITY SECTION
CERTIFICATION # _____
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ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER



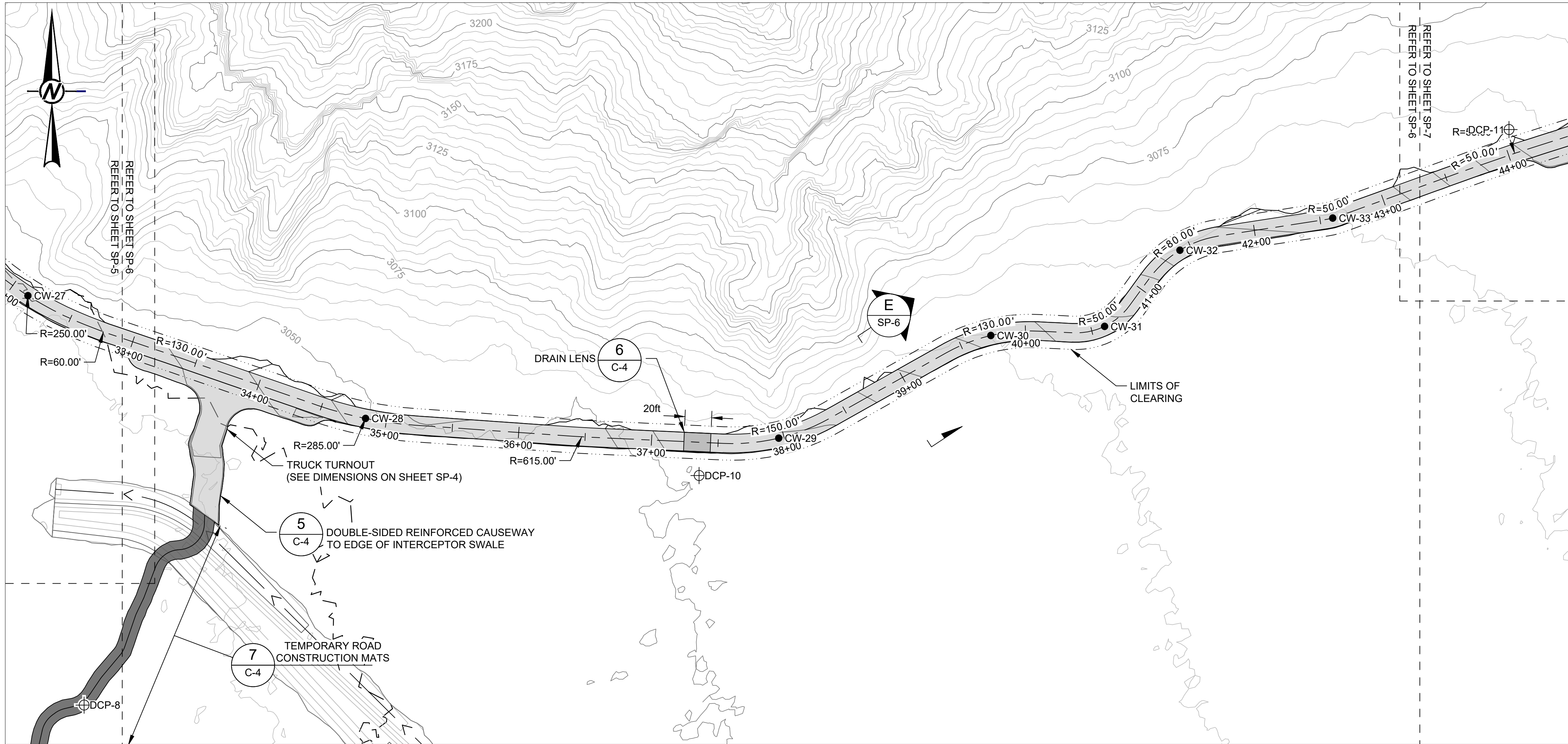
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DATE: 08-31-2021

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DATE	
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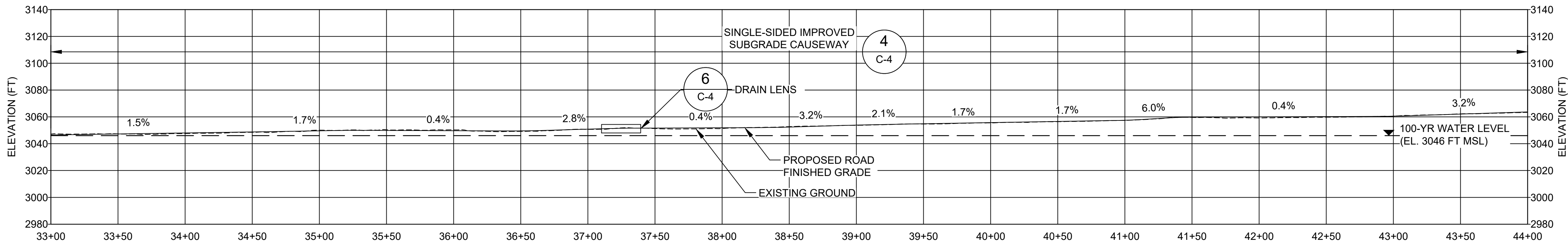
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (3 OF 5)

DRAWING NO.
154490214-06

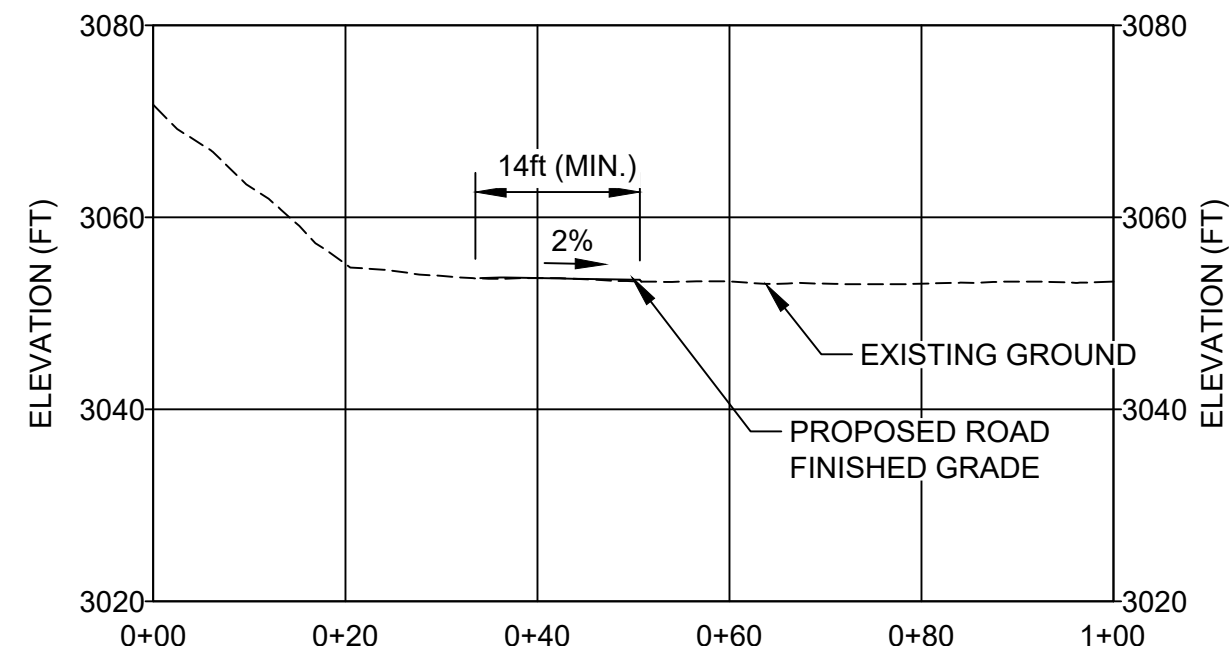
SHEET NO.
SP-5



CAUSEWAY PLAN VIEW
SCALE 1" = 50'



SCALE 1" = 50'
VERT. SCALE 1:1
D CAUSEWAY PROFILE D
SP-6



SCALE 1" = 20'
VERT. SCALE 1:1
E CAUSEWAY SECTION E
SP-6

LEGEND

- 3050 EXISTING MAJOR CONTOUR (25 FT)
- 3055 EXISTING MINOR CONTOUR (5 FT)
- 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- DYNAMIC CONE PENETROMETER TEST LOCATION
- ACCESS ROAD
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS
- SOIL STABILIZER APPLICATION AREA (SEE NOTE 3)

CONTROL POINT TABLE

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
CW-1	2261195.02	6865477.31	3073.00
CW-2	2261275.30	6865562.43	3061.58
CW-3	2261297.61	6865599.64	3057.23
CW-4	2261325.81	6865618.86	3053.80
CW-5	2261420.59	6865631.05	3046.18
CW-6	2261496.47	6865616.15	3046.16
CW-8	2261582.58	6865671.61	3046.15
CW-9	2261654.30	6865621.58	3046.15
CW-10	2261726.00	6865614.02	3046.15
CW-11	2261838.92	6865506.33	3046.15
CW-12	2261976.73	6865261.06	3052.08
CW-13	2262029.24	6865229.11	3053.90
CW-14	2262306.67	6865260.72	3057.25
CW-15	2262499.96	6865391.13	3061.30
CW-16	2262540.12	6865397.84	3060.87
CW-17	2262713.78	6865476.69	3061.32
CW-18	2262760.85	6865511.57	3059.47
CW-19	2262978.17	6865648.34	3060.69
CW-20	2262986.72	6865915.18	3048.47
CW-21	2262945.48	6865985.27	3048.50
CW-22	2262963.13	6866141.84	3047.10
CW-23	2262984.58	6866191.24	3046.15
CW-24	2262947.88	6866271.06	3046.15
CW-25	2262983.17	6866369.73	3046.65
CW-26	2262958.23	6866512.64	3046.15
CW-27	2262903.63	6866582.48	3046.15
CW-28	2262811.37	6866836.19	3049.34
CW-29	2262796.55	6867146.68	3051.91
CW-30	2262873.70	6867306.14	3055.30
CW-31	2262880.56	6867391.59	3056.78
CW-32	2262937.77	6867448.22	3059.62
CW-33	2262961.92	6867563.05	3060.25
CW-34	2263078.62	6867975.55	3067.45
CW-35	2263081.60	6868256.78	3073.30
CW-36	2263094.58	6868283.42	3073.73
CW-37	2263119.43	6868345.03	3074.75
CW-38	2263126.28	6868371.22	3075.16
CW-39	2263252.78	6868496.82	3077.08
CW-40	2263345.46	6868525.57	3078.14

NOTE(S)

- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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ACCESSIBILITY SECTION
CERTIFICATION # _____

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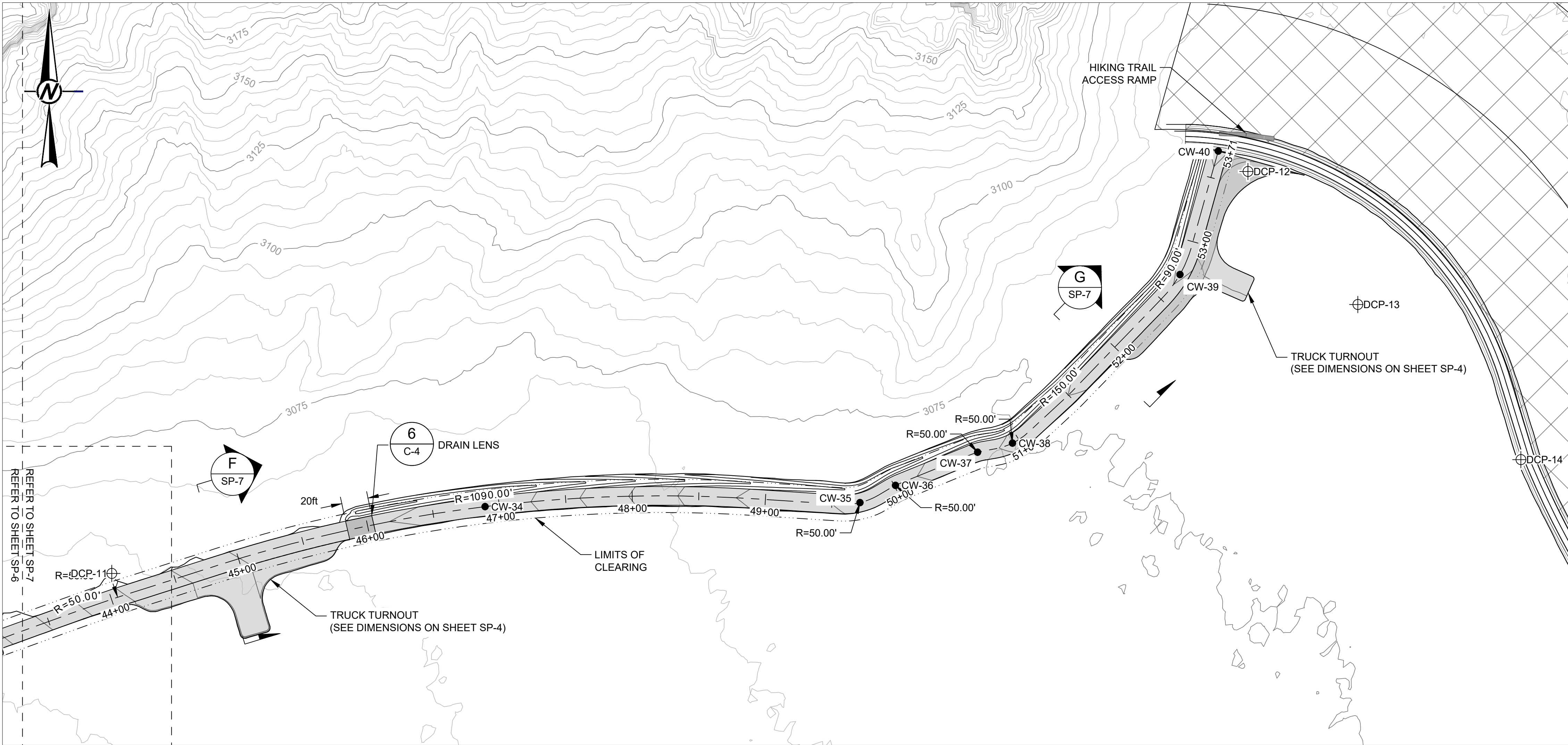
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DATE	
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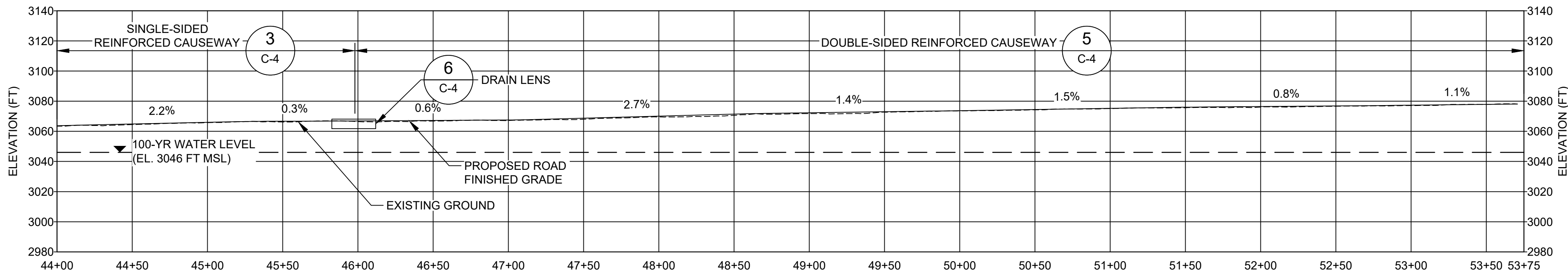
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (4 OF 5)

DRAWING NO.
154490214-07

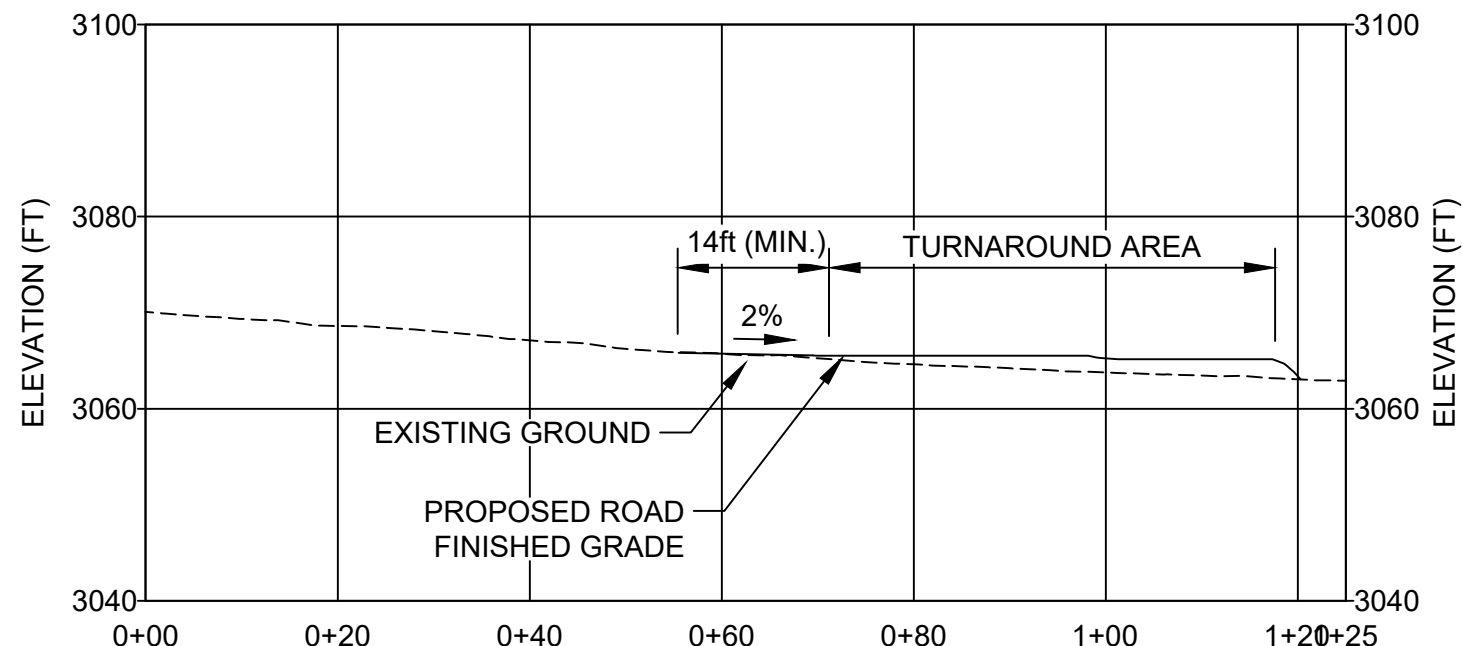
SHEET NO.
SP-6
07 OF 18



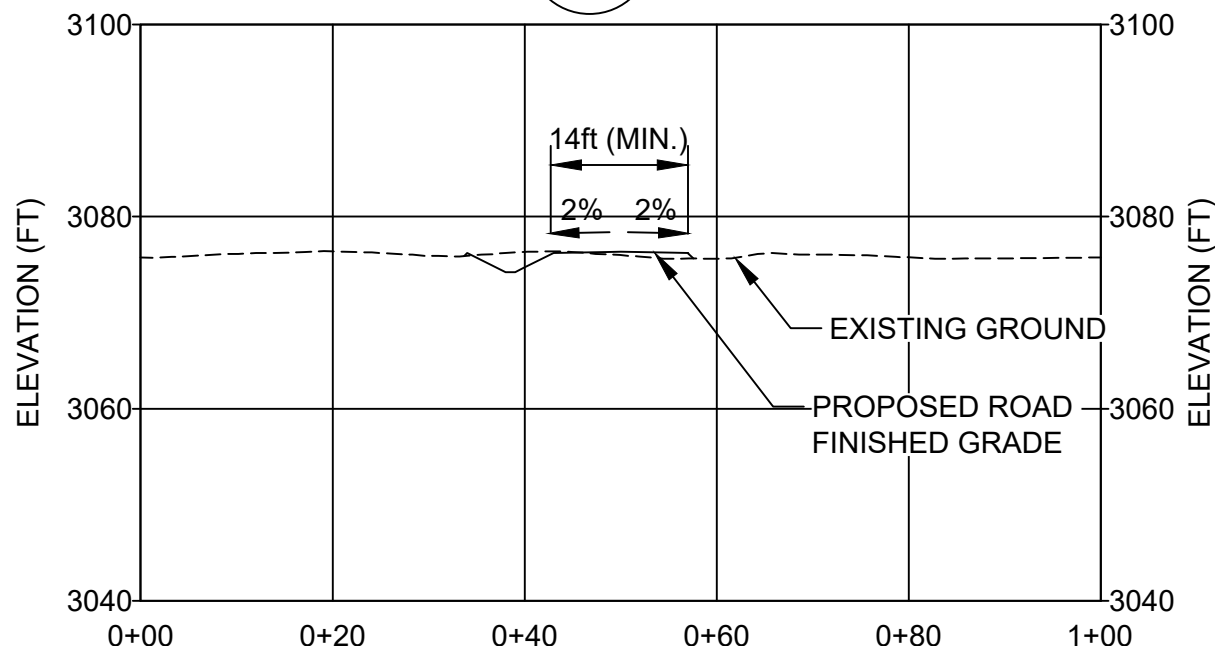
CAUSEWAY PLAN VIEW
SCALE 1" = 50'



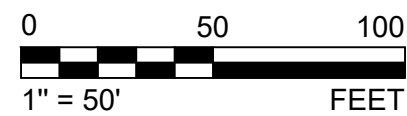
SCALE 1" = 50'
VERT. SCALE 1:1
E CAUSEWAY PROFILE E
SP-7



SCALE 1" = 20'
VERT. SCALE 1:1
F CAUSEWAY SECTION F
SP-7



SCALE 1" = 20'
VERT. SCALE 1:1
G CAUSEWAY SECTION G
SP-7



LEGEND

- 3050 — EXISTING MAJOR CONTOUR (25 FT)
- 3055 — EXISTING MINOR CONTOUR (5 FT)
- - - 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- ⊕ DYNAMIC CONE PENETROMETER TEST LOCATION
- ◀◀◀◀◀ ACCESS ROAD
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS
- SOIL STABILIZER APPLICATION AREA (SEE NOTE 3)

CONTROL POINT TABLE

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
CW-1	2261195.02	6865477.31	3073.00
CW-2	2261275.30	6865562.43	3061.58
CW-3	2261297.61	6865599.64	3057.23
CW-4	2261325.81	6865618.86	3053.80
CW-5	2261420.59	6865631.05	3046.18
CW-6	2261496.47	6865616.15	3046.16
CW-8	2261582.58	6865671.61	3046.15
CW-9	2261654.30	6865621.58	3046.15
CW-10	2261726.00	6865614.02	3046.15
CW-11	2261838.92	6865506.33	3046.15
CW-12	2261976.73	6865261.06	3052.08
CW-13	2262029.24	6865229.11	3053.90
CW-14	2262306.67	6865260.72	3057.25
CW-15	2262499.96	6865391.13	3061.30
CW-16	2262540.12	6865397.84	3060.87
CW-17	2262713.78	6865476.69	3061.32
CW-18	2262760.85	6865511.57	3059.47
CW-19	2262978.17	6865648.34	3060.69
CW-20	2262986.72	6865915.18	3048.47
CW-21	2262945.48	6865985.27	3048.50
CW-22	2262963.13	6866141.84	3047.10
CW-23	2262984.58	6866191.24	3046.15
CW-24	2262947.88	6866271.06	3046.15
CW-25	2262983.17	6866369.73	3046.65
CW-26	2262958.23	6866512.64	3046.15
CW-27	2262903.63	6866582.48	3046.15
CW-28	2262811.37	6866836.19	3049.34
CW-29	2262796.55	6867146.68	3051.91
CW-30	2262873.70	6867306.14	3055.30
CW-31	2262880.56	6867391.59	3056.78
CW-32	2262937.77	6867448.22	3059.62
CW-33	2262961.92	6867563.05	3060.25
CW-34	2263078.62	6867975.55	3067.45
CW-35	2263081.60	6868256.78	3073.30
CW-36	2263094.58	6868283.42	3073.73
CW-37	2263119.43	6868345.03	3074.75
CW-38	2263126.28	6868371.22	3075.16
CW-39	2263252.78	6868496.82	3077.08
CW-40	2263345.46	6868525.57	3078.14

NOTE(S)

- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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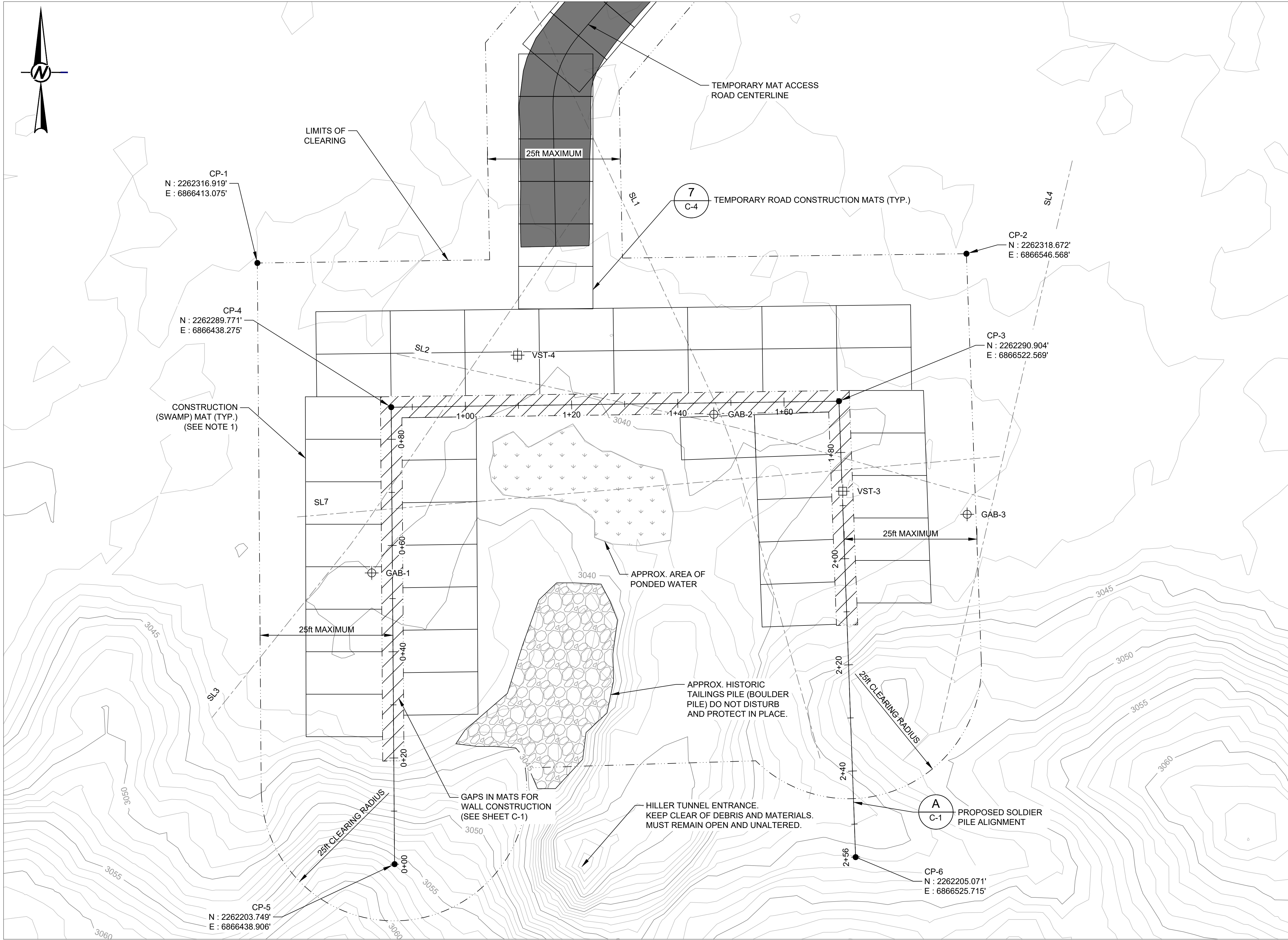
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DATE	
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (5 OF 5)

DRAWING NO.
154490214-08

SHEET NO.
SP-7



LEGEND

- 3050 EXISTING MAJOR CONTOUR (5 FT)
- 3051 EXISTING MINOR CONTOUR (1 FT)
- SL1 GEOPHYSICS SEISMIC LINE
- APPROX. AREA OF PONDED WATER
- APPROX. AREA OF HISTORIC TAILINGS PILE
- APPROX. GAP AREA NEEDED FOR PILE INSTALLATION
- ACCESS ROAD ACROSS PIT (PREVIOUSLY CLEARED)
- GAB-1 GEOTECHNICAL BORING LOCATION
- VST-1 GEOTECHNICAL VANE SHEAR TEST LOCATION

- NOTE(S)**
- SWAMP MAT PLACEMENT SHOW FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LOCATION DEPENDENT ON CONTRACTOR MEANS AND METHODS FOR PILE WALL INSTALLATION, BUT MUST NOT EXTEND OUTSIDE THE LIMITS OF CLEARING SHOWN.
 - EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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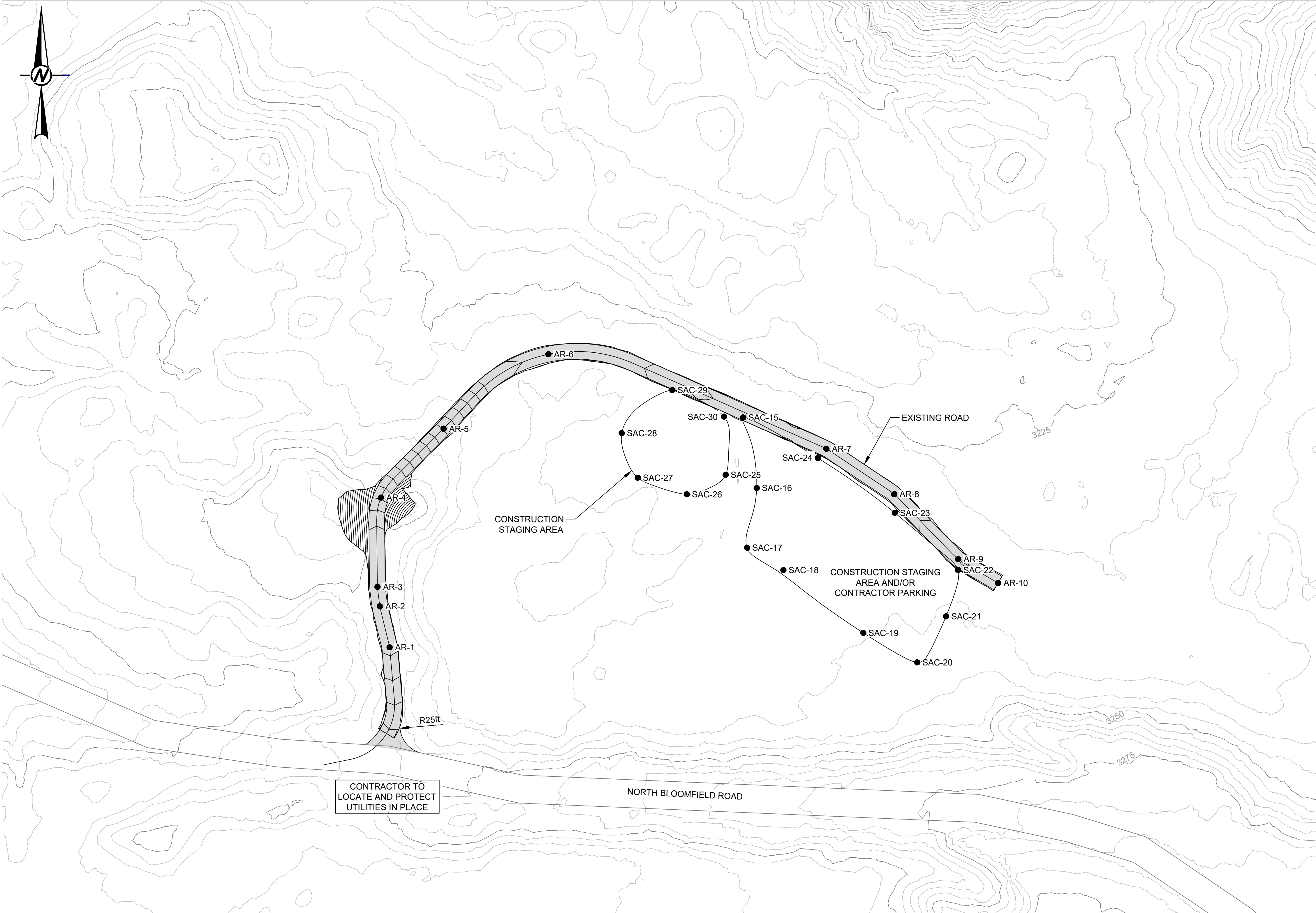
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
**HILLER TUNNEL AREA SITE
PREPARATION PLAN**

DRAWING NO.
154490214-09

SHEET NO.
SP-8
09 OF 18




LEGEND


- 3050 EXISTING MAJOR CONTOUR (25 FT)
- 3055 EXISTING MINOR CONTOUR (5 FT)
- 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- DYNAMIC CONE PENETROMETER TEST LOCATION
- ACCESS ROAD
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS
- SOIL STABILIZER APPLICATION AREA (SEE NOTE 3)

CONTROL POINT TABLE			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
AR-1	2262071.32	6869753.13	3248.28
AR-2	2262107.94	6869744.49	3248.58
AR-3	2262125.35	6869742.36	3248.68
AR-4	2262205.13	6869745.41	3245.90
AR-5	2262266.76	6869801.40	3237.98
AR-6	2262333.35	6869895.13	3231.73
AR-7	2262248.80	6870143.56	3232.37
AR-8	2262208.24	6870204.18	3232.45
AR-9	2262150.14	6870261.43	3234.00
AR-10	2262128.75	6870297.08	3233.35
SAC-15	2262276.79	6870069.24	3232.38
SAC-16	2262213.68	6870081.32	3231.57
SAC-17	2262160.36	6870072.73	3231.86
SAC-18	2262140.38	6870105.20	3231.71
SAC-19	2262084.22	6870176.59	3234.58
SAC-20	2262057.81	6870224.88	3236.03
SAC-21	2262099.00	6870250.61	3235.11
SAC-22	2262140.46	6870261.36	3234.32
SAC-23	2262191.54	6870204.77	3233.36
SAC-24	2262240.53	6870136.06	3231.59
SAC-25	2262225.54	6870053.55	3232.67
SAC-26	2262208.15	6870018.83	3232.63
SAC-27	2262222.99	6869975.04	3233.24
SAC-28	2262262.81	6869960.71	3230.73
SAC-29	2262301.30	6870005.89	3232.82
SAC-30	2262277.62	6870052.10	3232.71

- NOTE(S)**
- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
 - EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.




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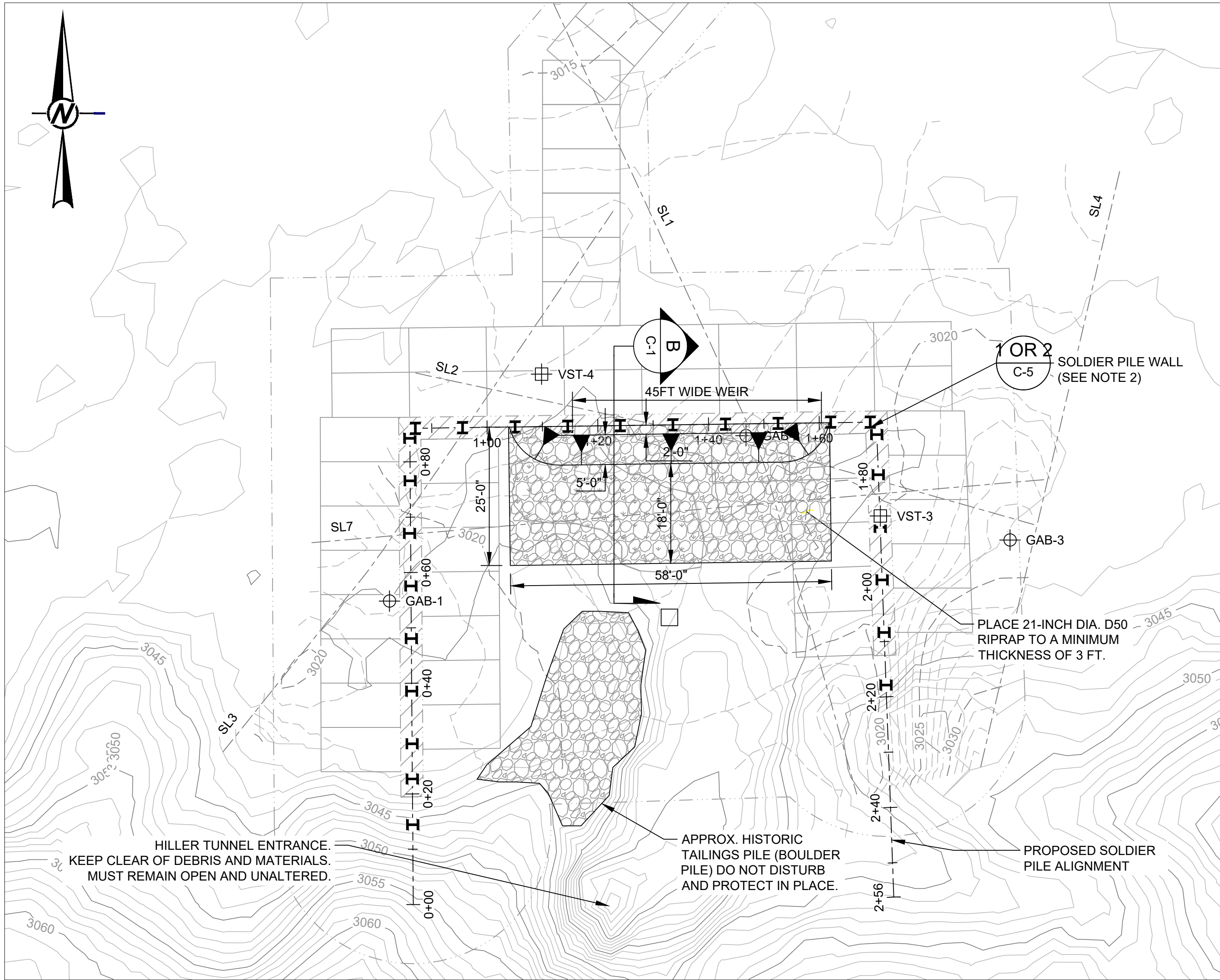
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION

**SHOOTING RANGE SITE
PREPARATION PLAN**

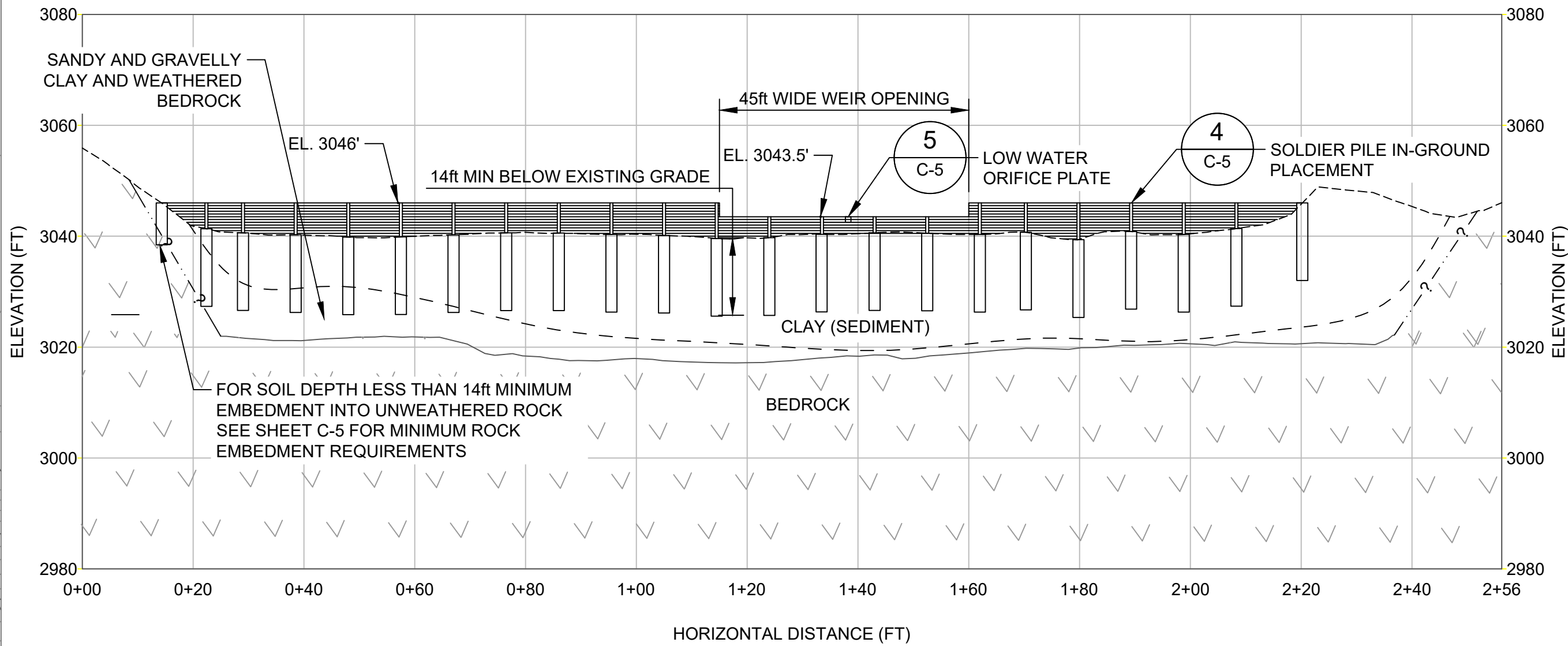
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SHEET NO.
SP-9
10 OF 18

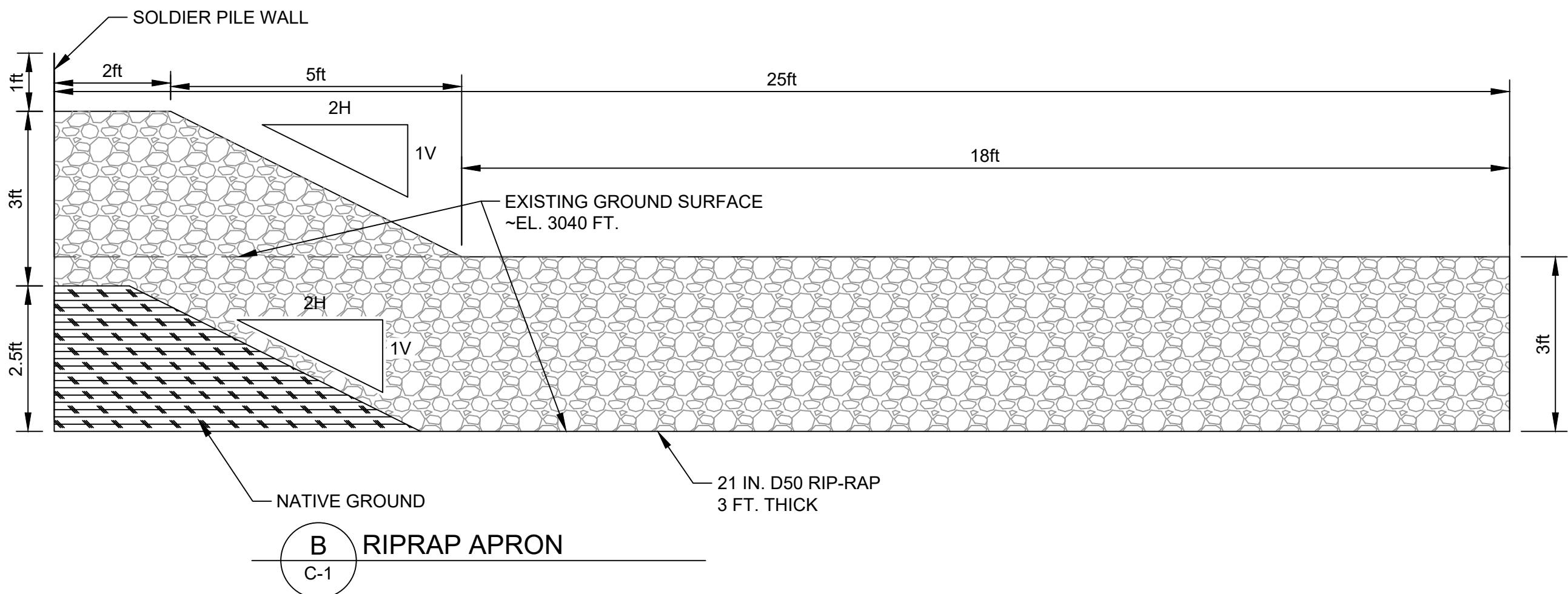


1 HILLER TUNNEL AREA
C-1

LEGEND	
	EXISTING MAJOR CONTOUR (5 FT)
	EXISTING MINOR CONTOUR (1 FT)
	ESTIMATED TOP OF ROCK MAJOR CONTOUR (5 FT)
	ESTIMATED TOP OF ROCK MINOR CONTOUR (1 FT)
	GEOPHYSICS SEISMIC LINE (SEE NOTE 1)
	APPROX. AREA OF PONDED WATER
	APPROX. AREA OF HISTORIC TAILINGS PILE (DO NOT DISTURB)
	GEOTECHNICAL BORING LOCATION (SEE NOTE 1)
	GEOTECHNICAL VANE SHEAR TEST LOCATION (SEE NOTE 1)



A SOLDIER PILE WALL - PROFILE
SP-8 & C-1



B RIPRAP APRON
C-1

NOTE(S)
1. MATERIAL BOUNDARIES IN PROFILE ARE APPROXIMATE BASED ON INTERPRETATION OF BORING LOGS AND SEISMIC DATA.
2. LOCATION AND SPACING OF WIDE-FLANGE STEEL BEAMS AS SHOWN ARE APPROXIMATE.



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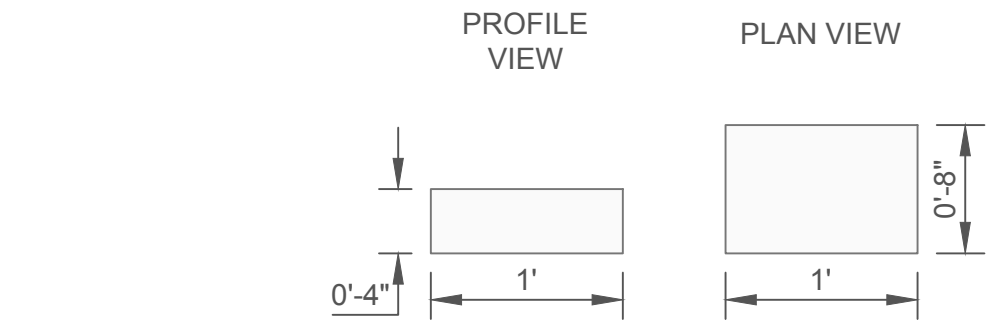
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DATE	
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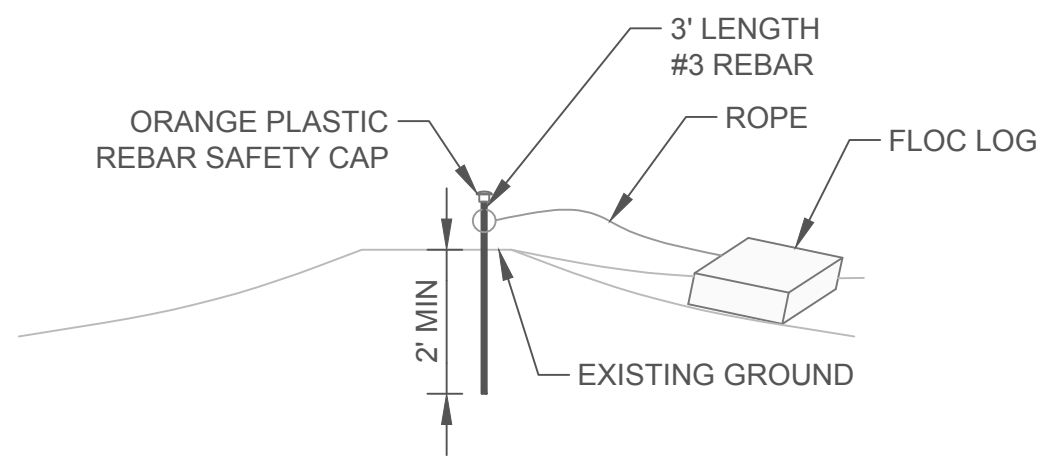
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
SOLDIER PILE WALL PLAN AND
PROFILE

DRAWING NO.
154490214-11

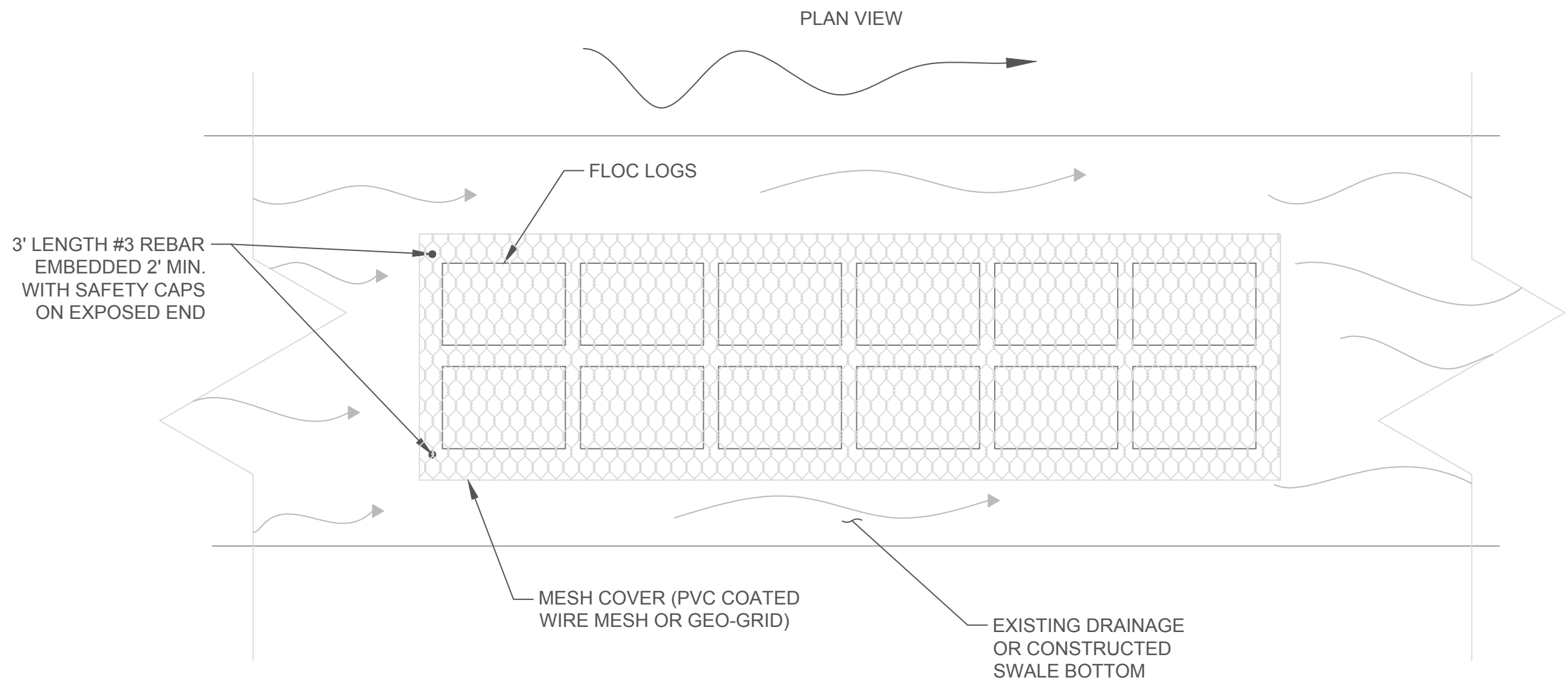
SHEET NO.
C-1
11 OF 18



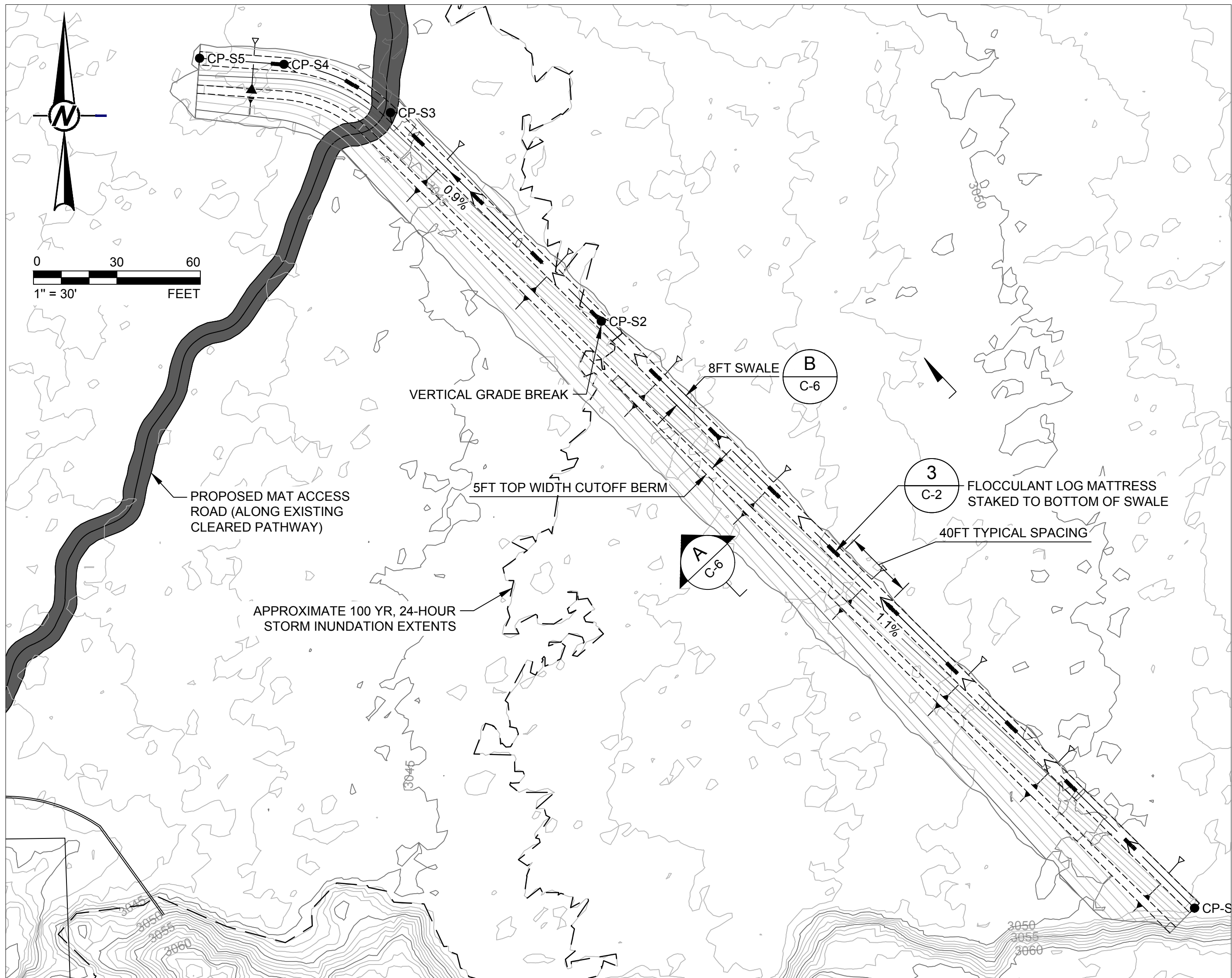
1 FLOCCULANT LOG
C-2 N.T.S.



2 FLOCCULANT LOG ANCHOR DETAIL
C-2 N.T.S.



3 FLOCCULANT LOG MATTRESS
C-2 N.T.S.



LEGEND	
	EXISTING MAJOR CONTOUR (5 FT)
	EXISTING MINOR CONTOUR (1 FT)
	FLOCCULANT LOGS
	PROPOSED MAJOR CONTOUR (5 FT)
	PROPOSED MINOR CONTOUR (1 FT)
	CUT SLOPE
	FILL SLOPE

INTERCEPTOR SWALE CONTROL POINT TABLE			
POINT NO.	NORTHING (FT)	EASTING (FT)	PROPOSED ELEV.
CP-S1	2262248.99	6867199.48	3051.0
CP-S2	2262600.60	6866843.99	3045.7
CP-S3	2262725.58	6866717.63	3044.1
CP-S4	2262754.51	6866653.82	3043.4
CP-S5	2262758.14	6866603.23	3043.0

- NOTE(S)**
- CONTRACTOR SHALL USE SWAMP MATS UNDER EQUIPMENT USED FOR CLEARING AND ACCESS.
 - CLEARED VEGETATION SHALL BE TRANSPORTED AND STOCKPILED NORTHEAST OF THE GRADE CONTROL STRUCTURE FOR CONSTRUCTION OF BRUSH DAMS (AS SHOWN ON SHEET C-3).
 - EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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DATE: 08-31-2021

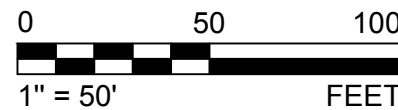
REVISIONS	
DATE	
ISSUED FOR RWQCB REVIEW	08/31/21

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
**INTERCEPTOR SWALE
INSTALLATION PLAN**

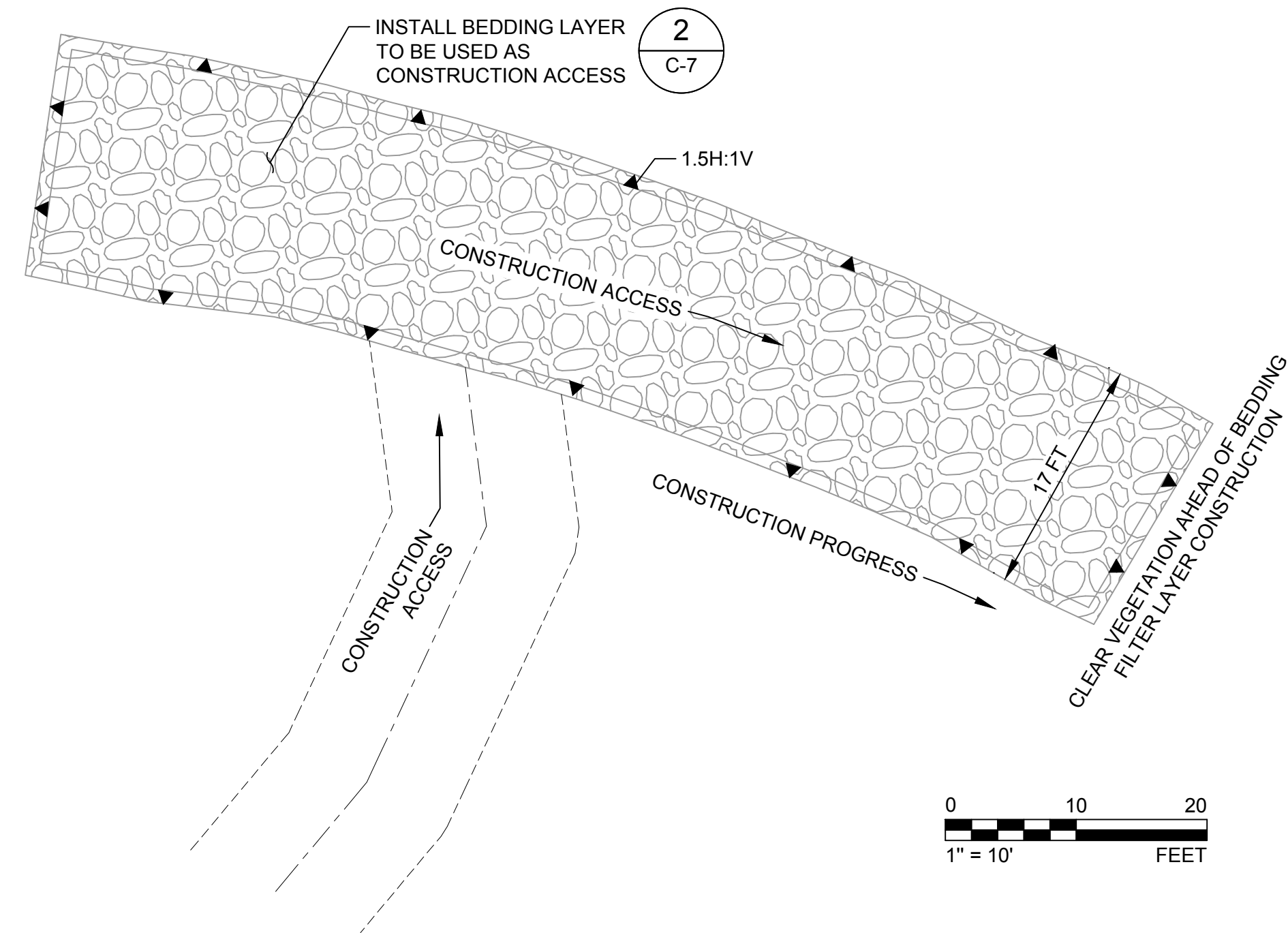
DRAWING NO.
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SHEET NO.
C-2

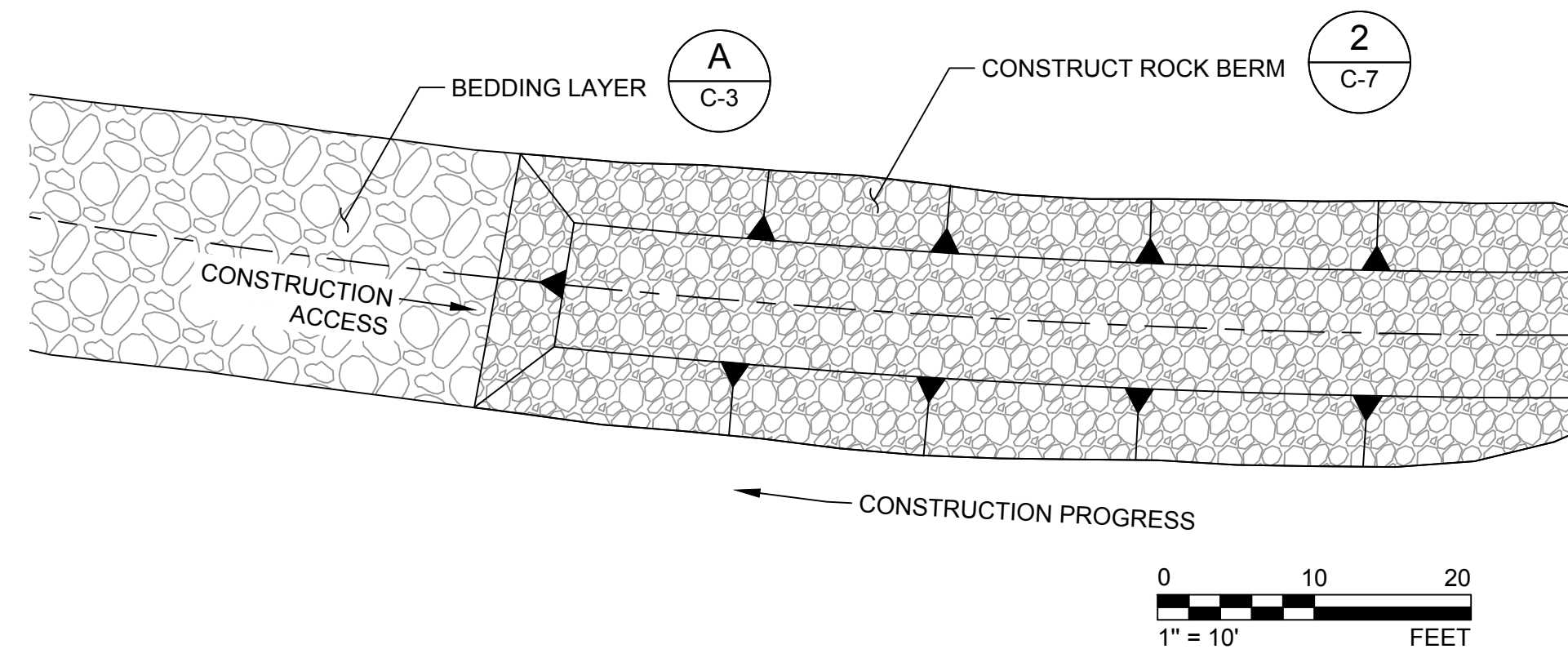
12 OF 18



POINT NO.	NORTHING (FT)	EASTING (FT)
GCS-1	2263356.46	6868501.04
GCS-2	2263350.28	6868550.58
GCS-3	2263334.67	6868597.99
GCS-4	2263310.22	6868641.52
GCS-5	2263277.85	6868799.53
GCS-6	2263238.78	6868710.59
GCS-7	2263194.45	6868733.55
GCS-8	2263146.74	6868749.08
GCS-9	2263099.72	6868765.35
GCS-10	2263054.77	6868787.22
GCS-11	2263011.63	6868812.47
GCS-12	2262970.56	6868840.96
GCS-13	2262931.79	6868872.52
GCS-14	2262901.34	6868901.10



A PHASE 1 INSTALLATION



B PHASE 2 INSTALLATION



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**DPR ACCESS COMPLIANCE REVIEW
ACCESSIBILITY SECTION
CERTIFICATION #**

Reviewed by	Date
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ACCESSIBILITY COMPLIANCE AND STATE FIRE
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NORTHERN SERVICE CENTER



DESIGNED:	KWW
DRAWN:	REDMOND
CHECKED:	SL
DATE:	08-31-2021

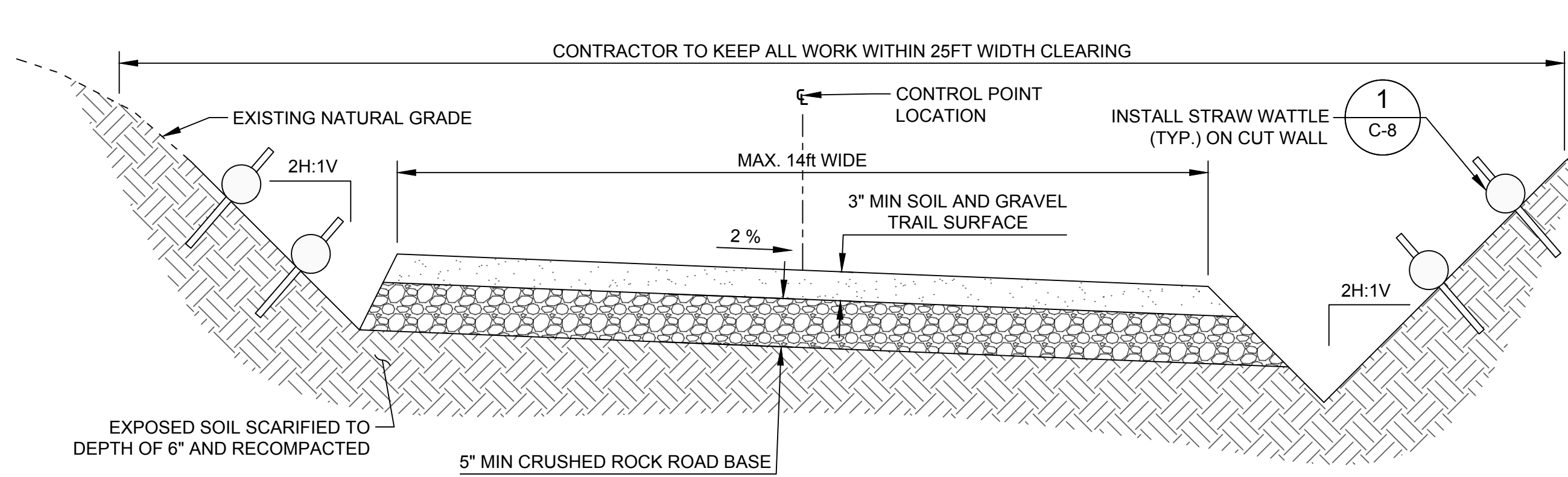
REVISIONS	
△	DATE
	ISSUED FOR RWQCB REVIEW 08/31/21

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION

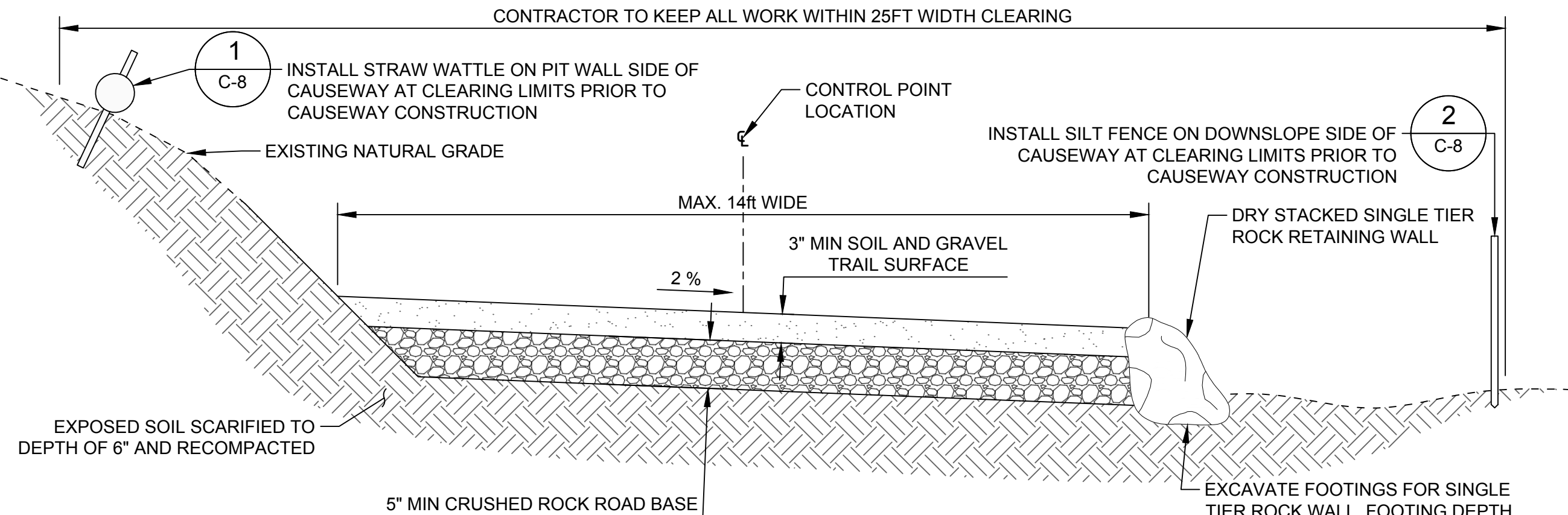
GRADE CONTROL STRUCTURE INSTALLATION PLAN

DRAWING NO.
154490214-13

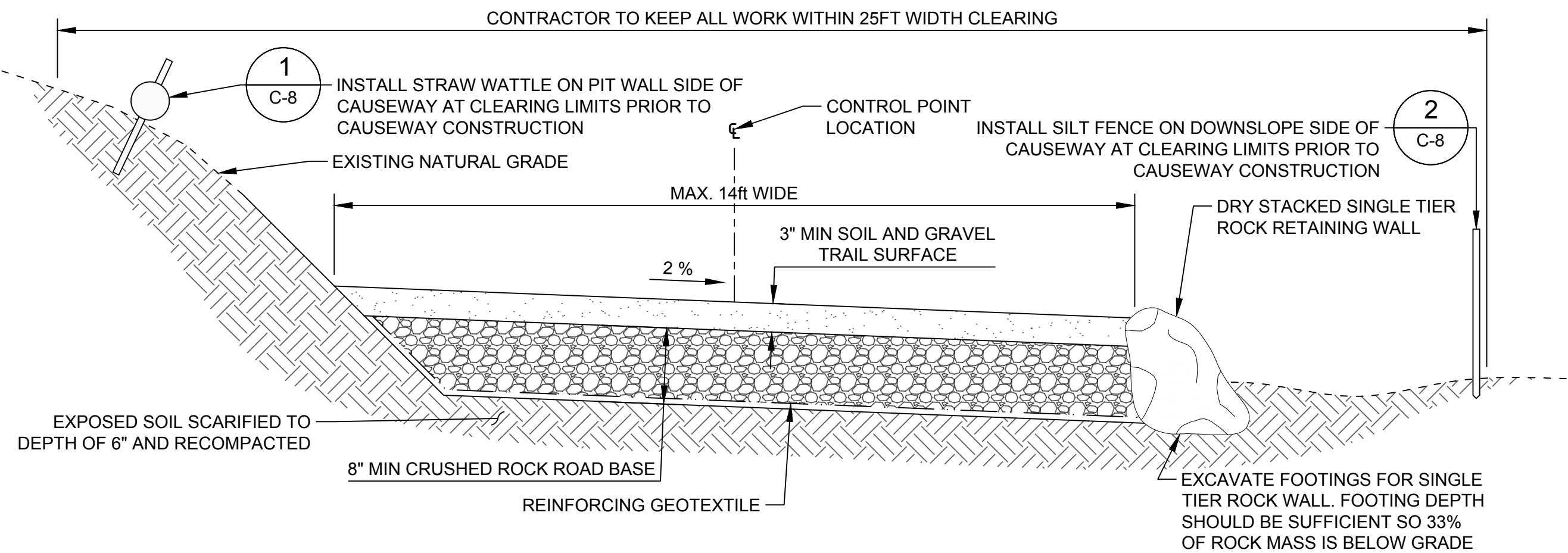
SHEET NO
C-3



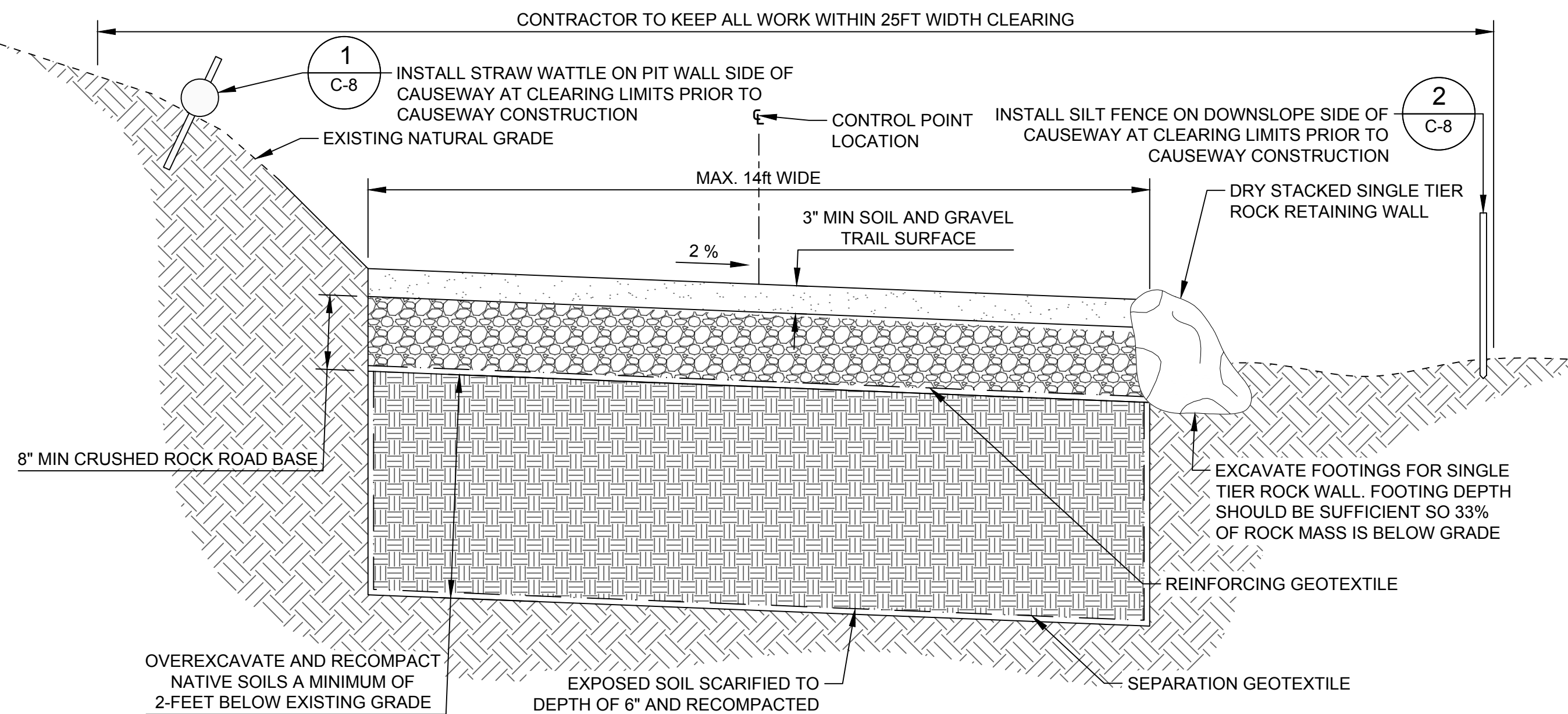
SCALE 1" = 2' **1** CAUSEWAY RAMP SECTION (STA 0+00 - STA 2+00)
C-4 (2X VERTICAL EXAGGERATION)



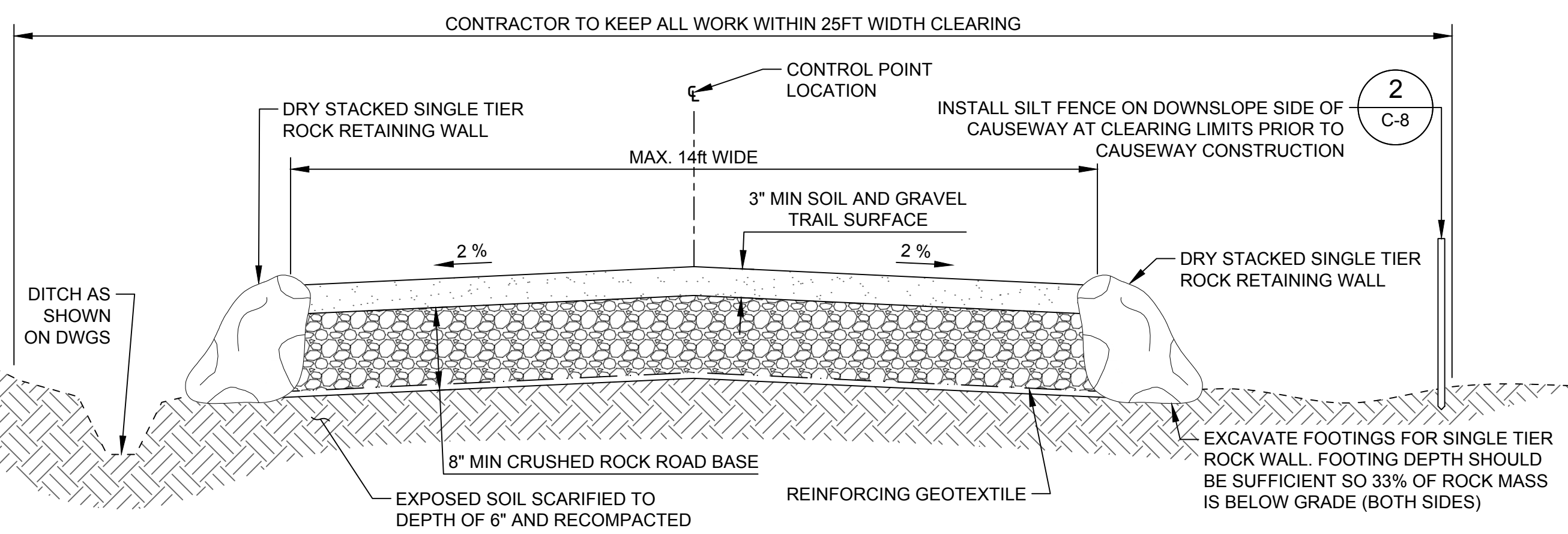
SCALE 1" = 2' **2** SINGLE-SIDED CAUSEWAY (STA 2+00 TO 23+00)
C-4 (2X VERTICAL EXAGGERATION)



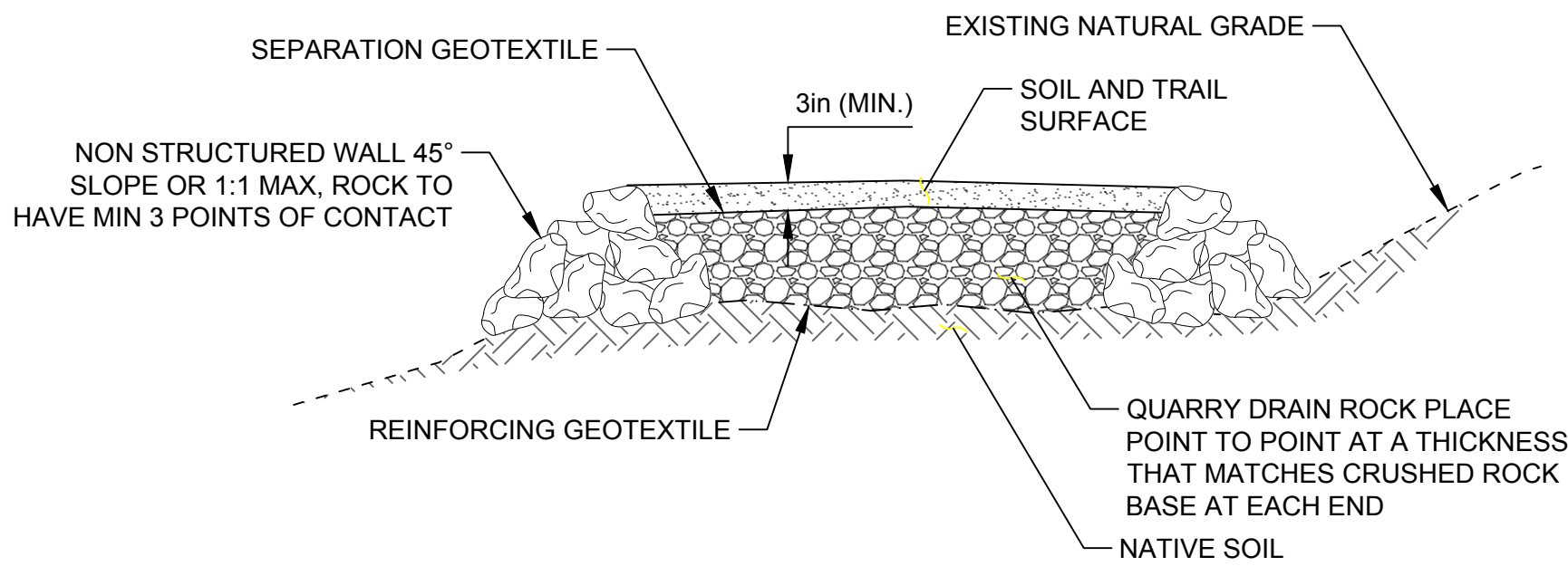
SCALE 1" = 2' **3** SINGLE-SIDED REINFORCED CAUSEWAY (STA 23+00 - 28+00) & (44+00 - 45+98)
C-4 (2X VERTICAL EXAGGERATION)



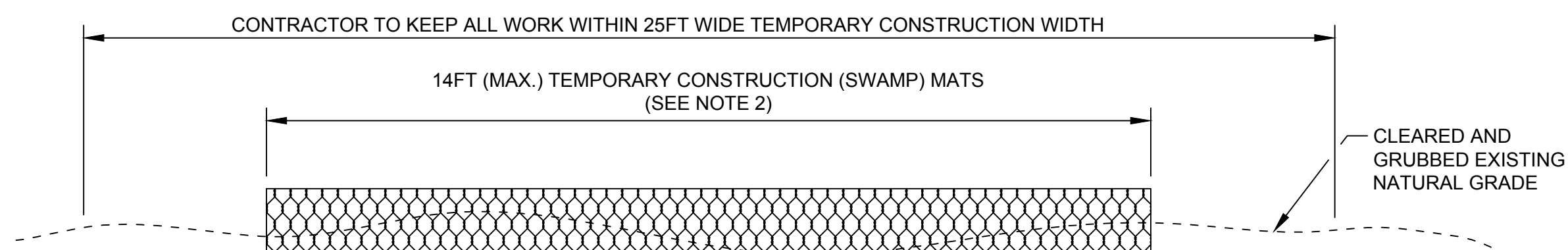
SCALE 1" = 2' **4** SINGLE-SIDED IMPROVED SUBGRADE CAUSEWAY (STA 28+00 TO 44+00)
C-4 (2X VERTICAL EXAGGERATION)



SCALE 1" = 2' **5** DOUBLE-SIDED REINFORCED CAUSEWAY (STA 45+98 - 53+71)
C-4 (2X VERTICAL EXAGGERATION)



6 DRAIN LENS
SP-2 N.T.S.



7 TEMPORARY ROAD CONSTRUCTION MATS
SP-2 N.T.S.

- NOTE(S)**
- CLEAR VEGETATION FROM ROAD PRISM, CUT INTO EXISTING GRADE AS SHOWN AND SIDE CAST TO USE AS FILL. BENCH FILL INTO SLOPED AREAS AND PLACE FILL IN HORIZONTAL LOOSE LIFTS NOT EXCEEDING 1 FOOT AND COMPACT TO NON-YIELDING CONDITIONS WITH HEAVIEST RUBBER TIRED VEHICLES THAT WILL USE THE ROAD.
 - TEMPORARY CONSTRUCTION MATS SHALL BE PRE-FABRICATED WOOD OR COMPOSITE MATS MEETING THE SPECIFICATION REQUIREMENTS.



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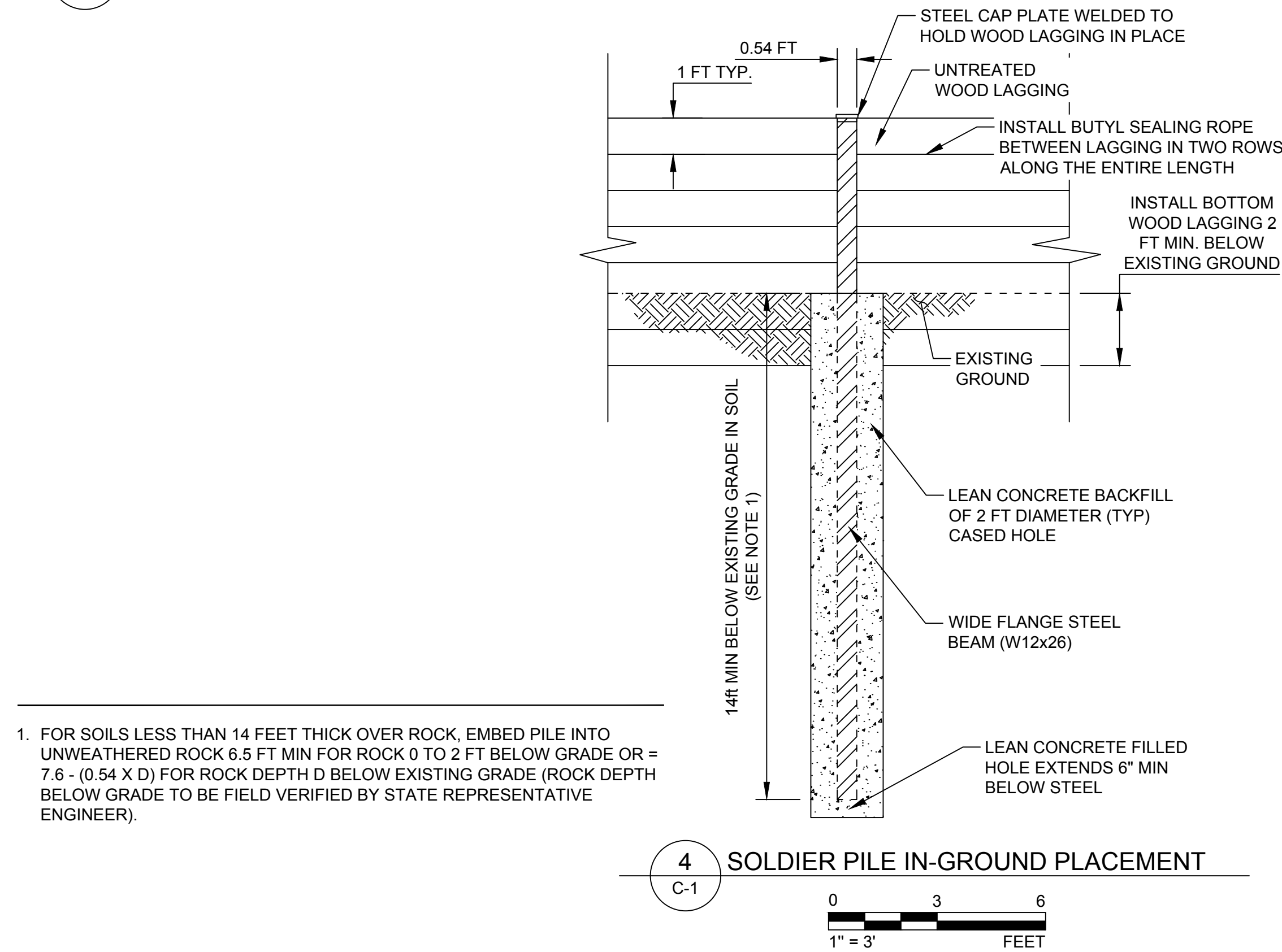
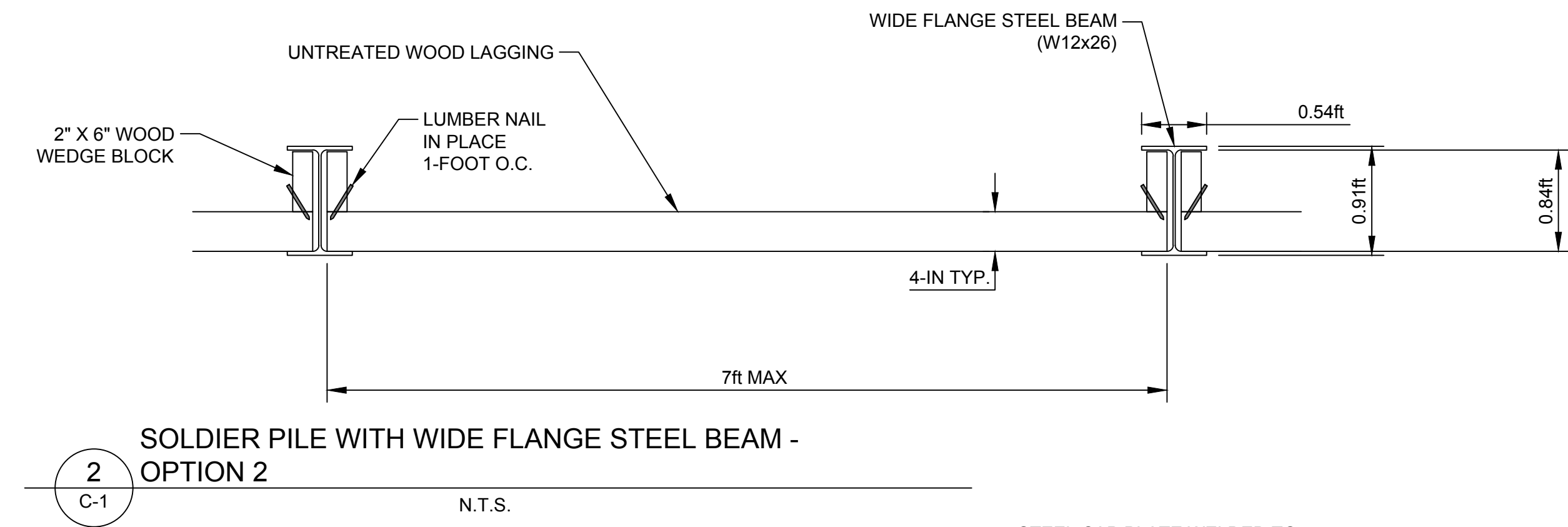
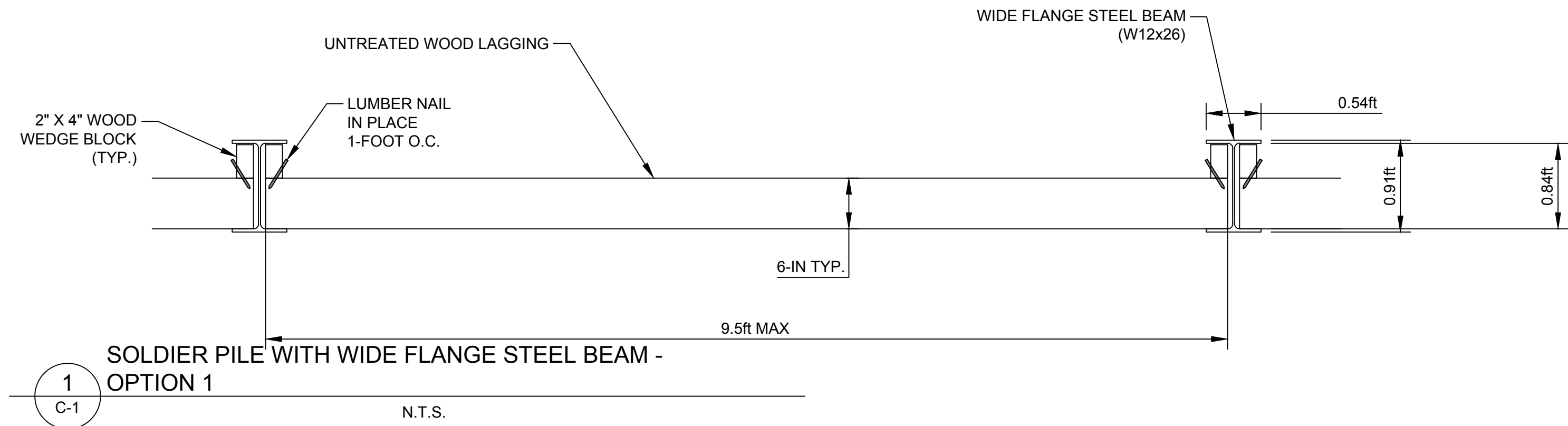
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DATE	
08/31/21	ISSUED FOR RWQCB REVIEW

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION

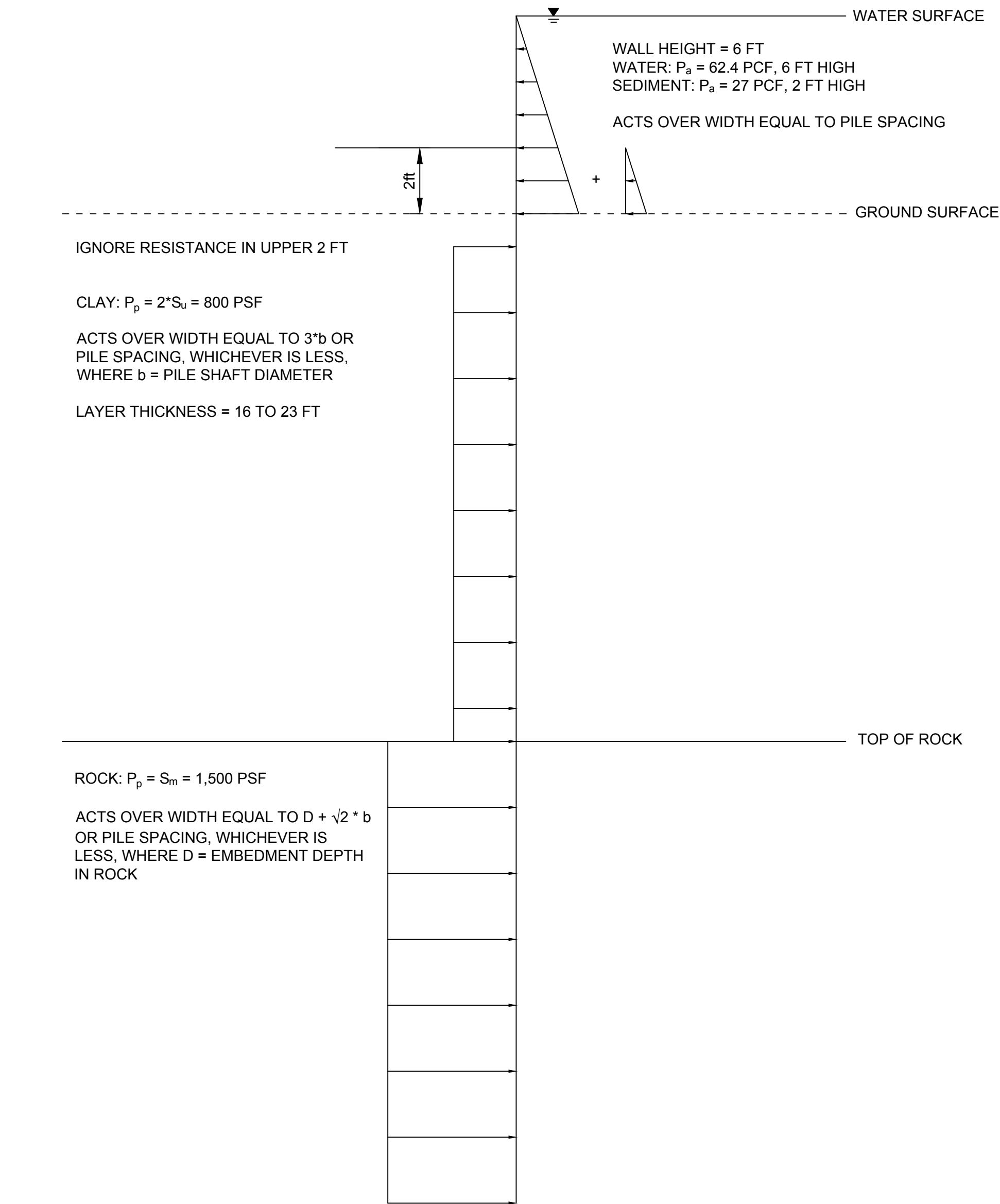
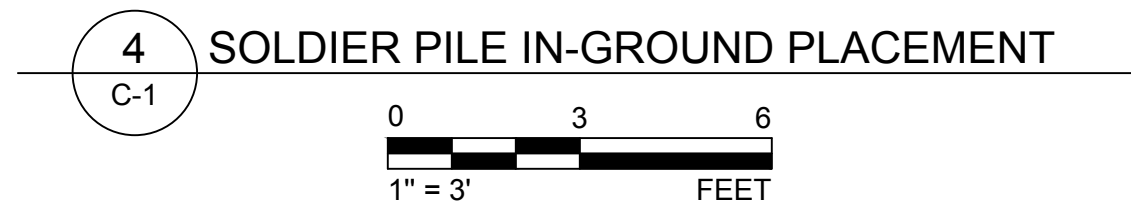
CAUSEWAY DETAILS

DRAWING NO.
154490214-14

SHEET NO.
C-4



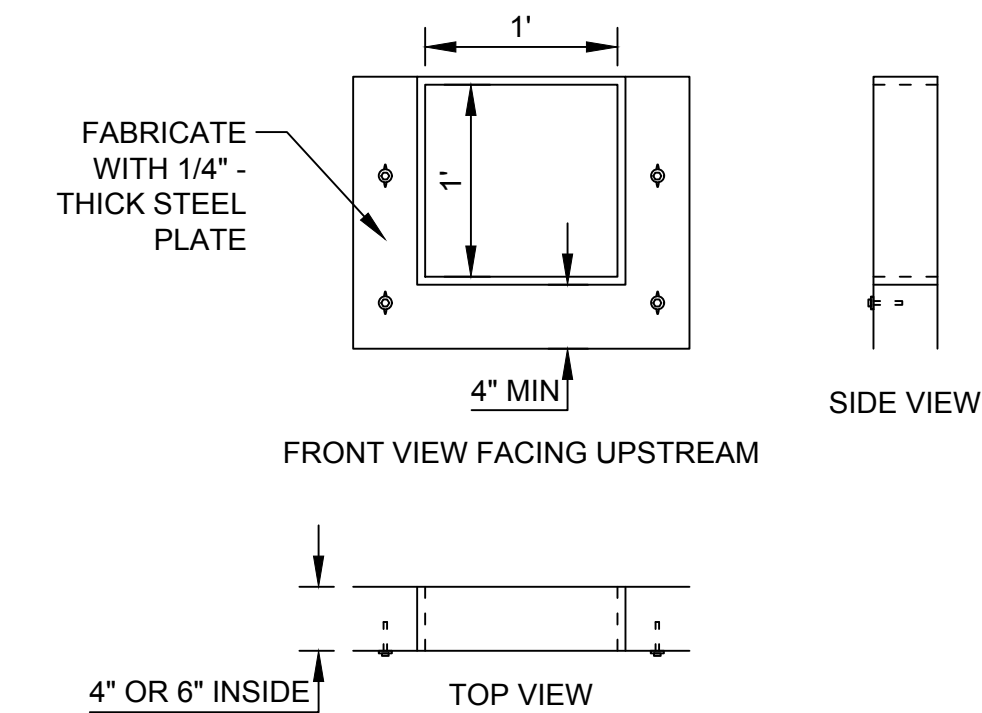
1. FOR SOILS LESS THAN 14 FEET THICK OVER ROCK, EMBED PILE INTO UNWEATHERED ROCK 6.5 FT MIN FOR ROCK 0 TO 2 FT BELOW GRADE OR = 7.6 - (0.54 X D) FOR ROCK DEPTH D BELOW EXISTING GRADE (ROCK DEPTH BELOW GRADE TO BE FIELD VERIFIED BY STATE REPRESENTATIVE ENGINEER).



3
C-5

SUB-SURFACE PRESSURE DIAGRAM

N.T.S.



5
C-1

LOW WATER ORIFICE PLATE

N.T.S.



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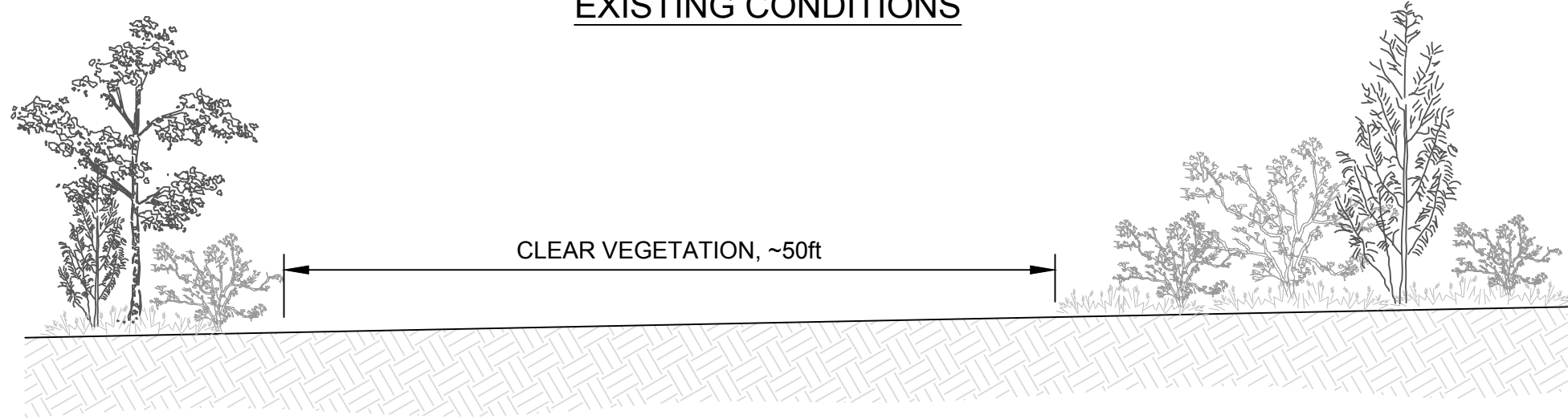
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
SOLDIER PILE WALL DETAILS

DRAWING NO.
154490214-15

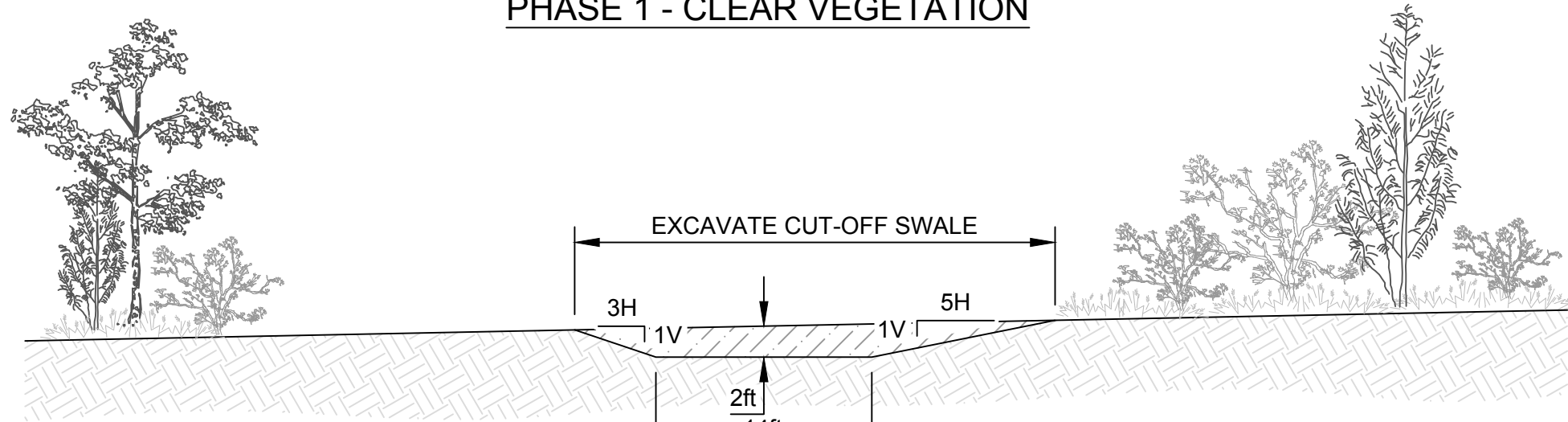
SHEET NO.
C-5
15 OF 18



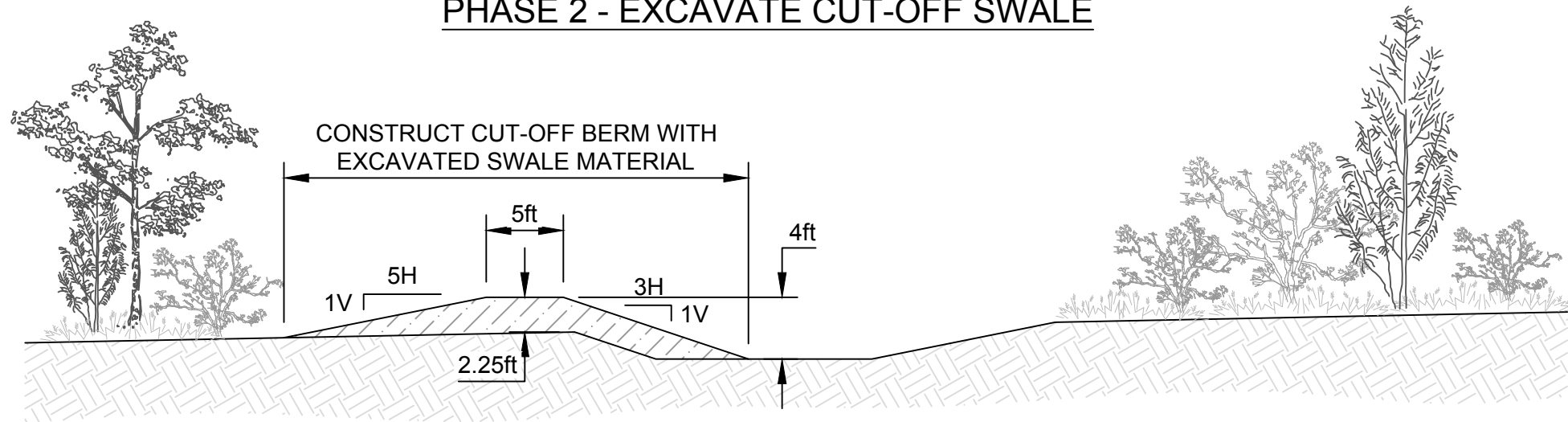
EXISTING CONDITIONS



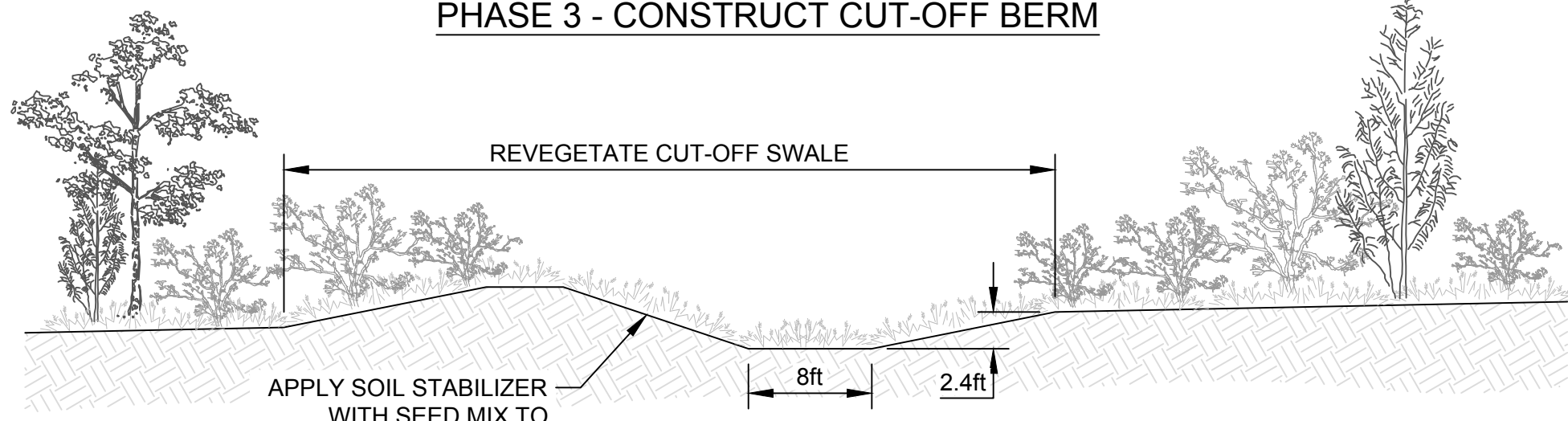
PHASE 1 - CLEAR VEGETATION



PHASE 2 - EXCAVATE CUT-OFF SWALE

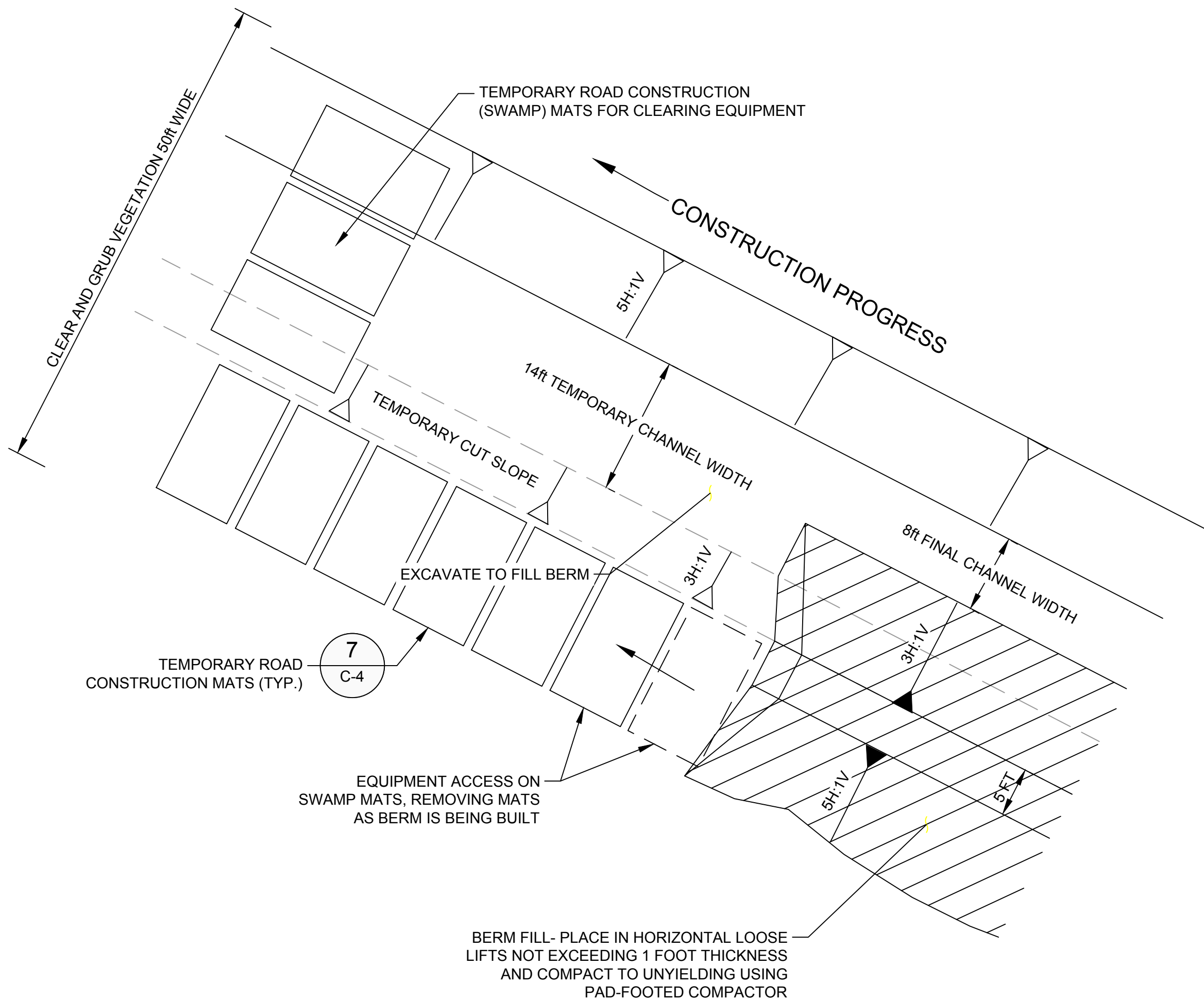
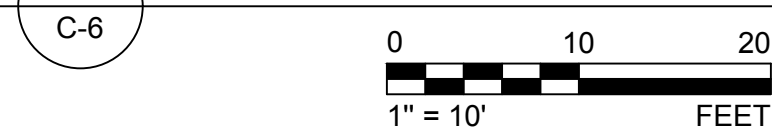


PHASE 3 - CONSTRUCT CUT-OFF BERM

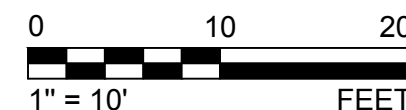


PHASE 4 - REVEGETATION

A INTERCEPTOR SWALE TYPICAL SECTION



B TYPICAL CONSTRUCTION SCHEMATIC



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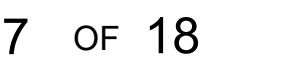
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION

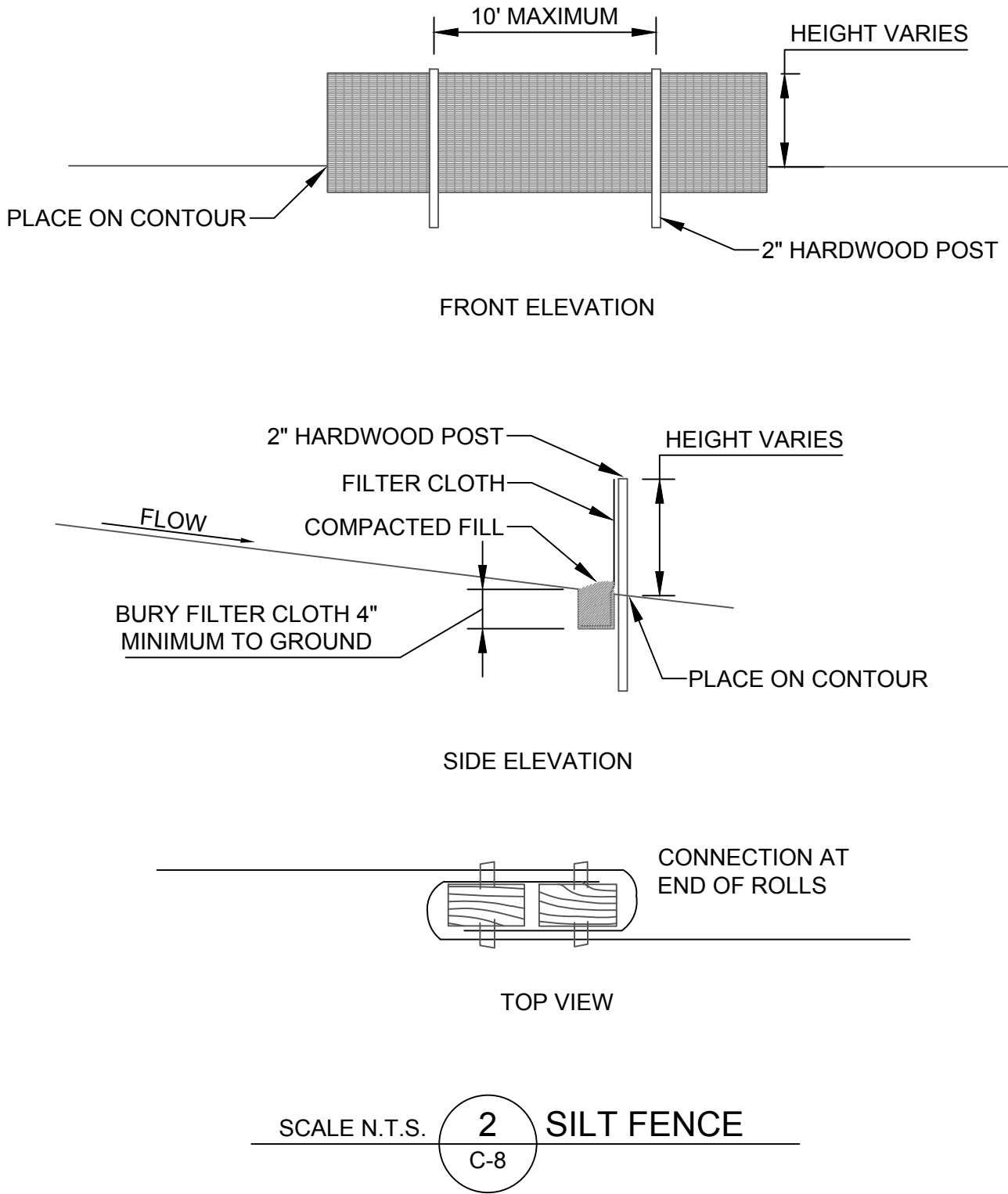
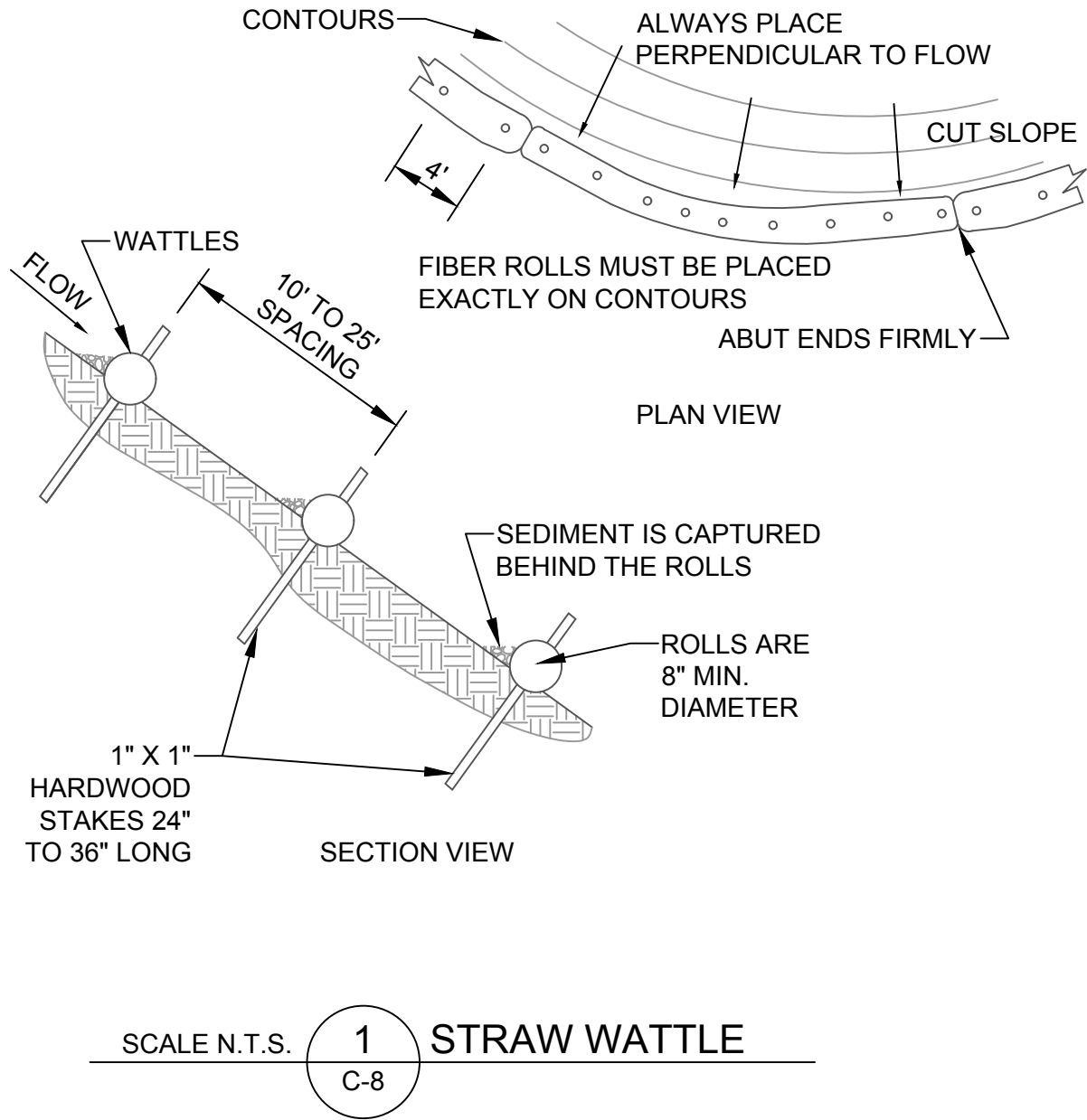
INTERCEPTOR SWALE DETAILS

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154490214-16

SHEET NO.
C-6

16 OF 18





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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
TEMPORARY EROSION AND
SEDIMENT CONTROLS

DRAWING NO.
154430214-17

SHEET NO.
C-8