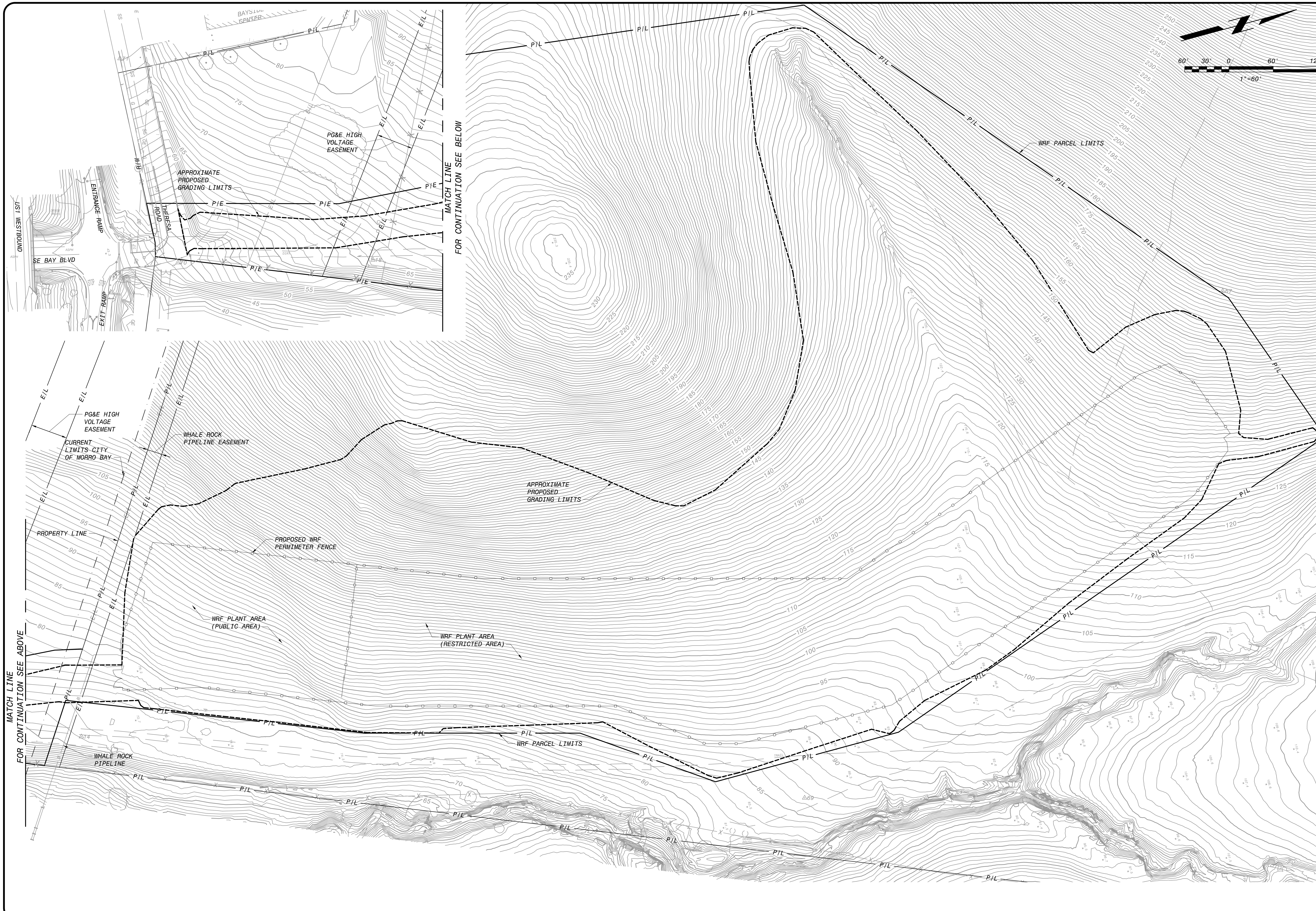

0 | 10/4/2019 | ISSUED FOR CONSTRUCTION | EVB | RBG | EVB

NO. | DATE | REVISIONS AND RECORD OF USE | BY | CHK | APP

No. C 78836

CIVIL

STATE OF CALIFORNIA

BLACK & VEATCH

JOINT VENTURE

FILANC

BLACK & VEATCH

CITY OF MORRO BAY

MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL

CIVIL

EXISTING GRADE AND FEATURES

DESIGNED: EVB

DETAILED: SMM

CHECKED: RBG

APPROVED: EVB

DATE: 10/4/2019

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.

400530

10-C-001

SHEET

OF

PLOTTED: 10/4/2019 3:49 PM FILE: C:\pw_working\bvw_americas\d0683625\400530-10-C-001.dwg

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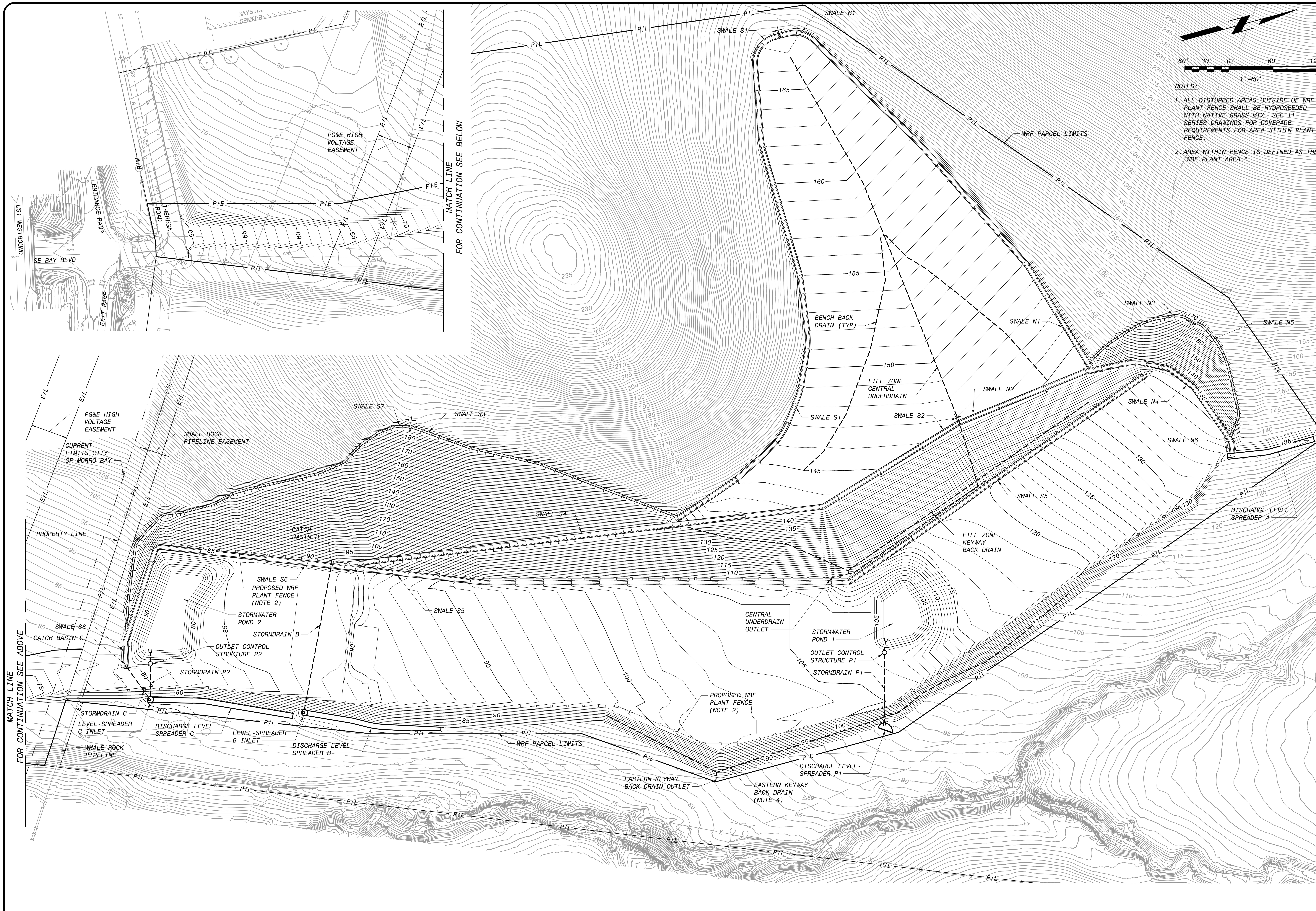

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE
0	EVB	RBG	EVB	10/4/2019	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
ERIK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
FILANC
BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
SITE PREP FINISHED GRADE OVERVIEW

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-002
SHEET
OF

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D400530
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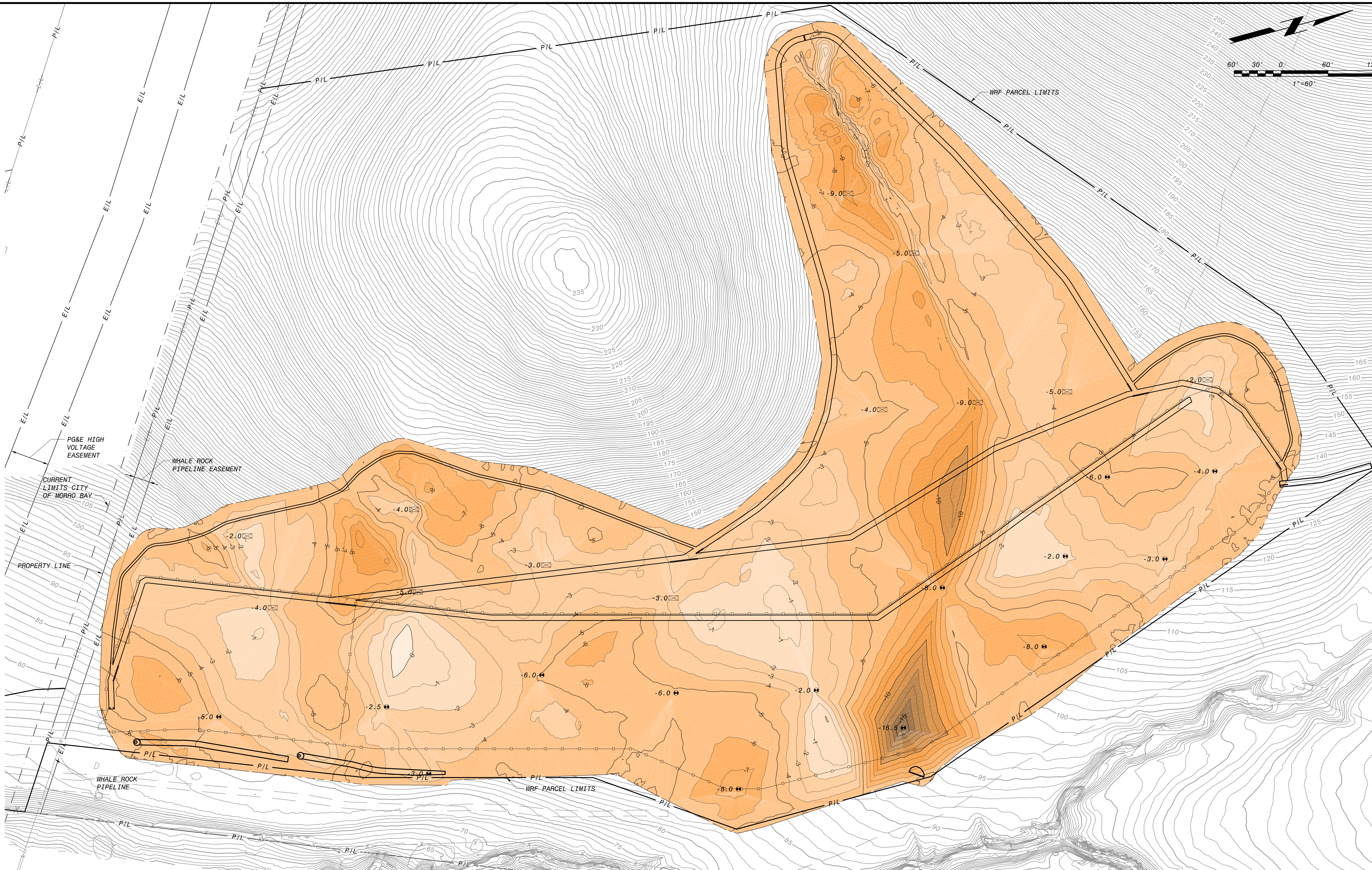

NOTES:

1. THE WRF PLANT AREA GRADE IS SHOWN APPROXIMATELY 1 FT LOWER THAN FINISHED GRADE. THAT GRADE WILL BE FINISHED PER THE GRADING AND PAVING DRAWINGS. ALL OTHER GRADES ON THIS DRAWING ARE FINISHED GRADES.
2. THE TOP OF THE HILLSIDE FILL AREA IS SHOWN FOR BALANCED SITE. THIS AREA CAN BE LOWERED OR RAISED AS NEEDED TO ADJUST FINAL FILL QUANTITY. CONSULT WITH ENGINEERING FOR DETAILS.
3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. THIS DRAWING SHOWS THE ESTIMATED DEPTH FROM EXISTING GRADE TO BEDROCK BASED ON DEPTH TO BEDROCK DATA FROM THE PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT DATED 7/1/2019. THIS REPRESENTS THE ESTIMATED DEPTH OF CLAY MATERIAL.

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NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERICK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH | JOINT VENTURE | FILANC | BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
DEPTH FROM EXISTING GRADE TO BEDROCK

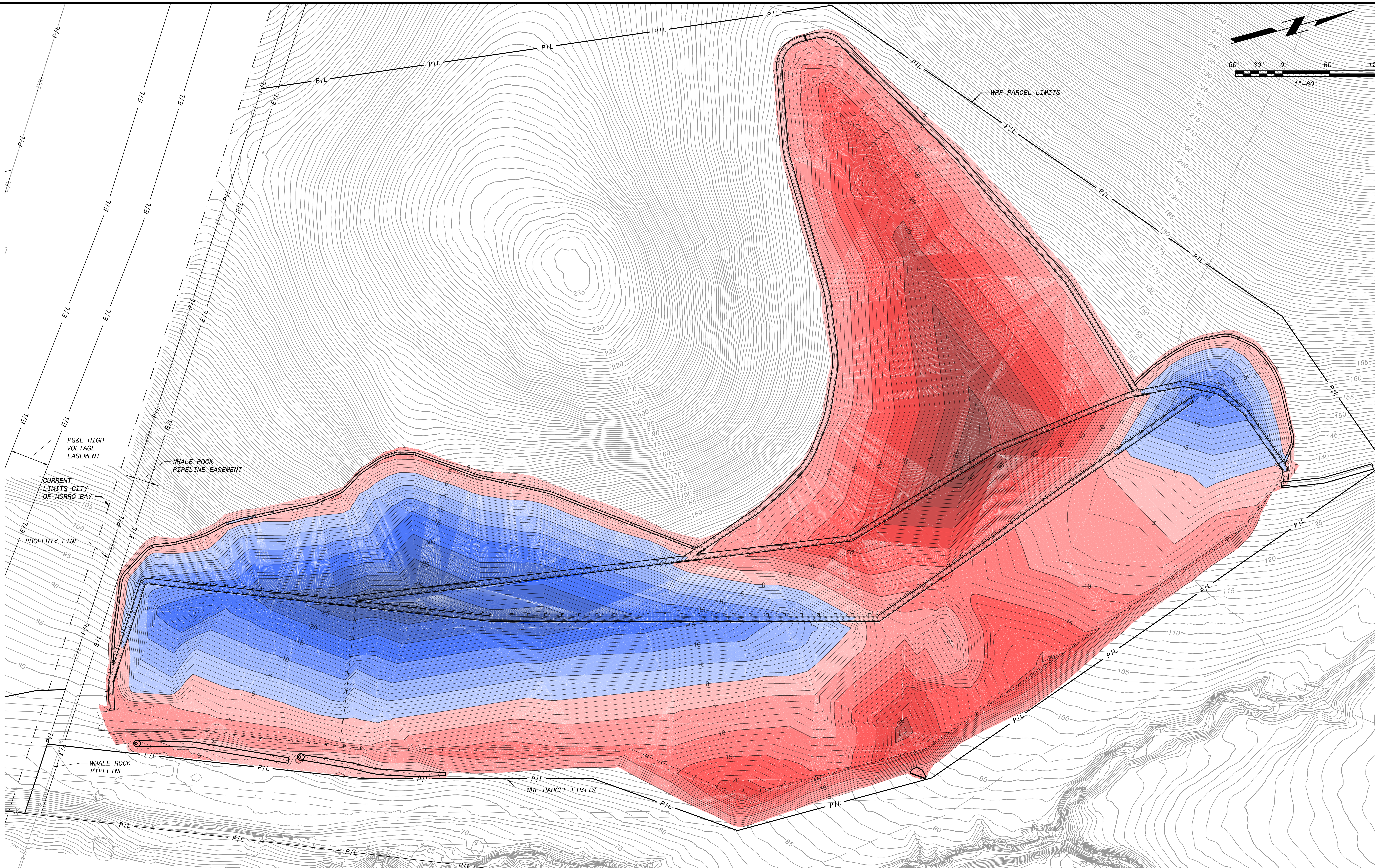
DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-003

SHEET
OF



NOTES:

1. THE WRF PLANT AREA GRADE IS SHOWN APPROXIMATELY 1 FT LOWER THAN FINISHED GRADE. THAT GRADE WILL BE FINISHED PER THE GRADING AND PAVING DRAWINGS. ALL OTHER GRADES ON THIS DRAWING ARE FINISHED GRADES.
2. THE TOP OF THE HILLSIDE FILL AREA IS SHOWN FOR BALANCED SITE. THIS AREA CAN BE LOWERED OR RAISED AS NEEDED TO ADJUST FINAL FILL QUANTITY. CONSULT WITH ENGINEERING FOR DETAILS.
3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. THIS DRAWING SHOWS THE ESTIMATED DEPTH FROM SITE PREPARATION GRADE TO BEDROCK BASED ON DEPTH TO BEDROCK DATA FROM THE PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT DATED 7/1/2019. POSITIVE VALVES IN RED AREAS INDICATE AREAS OF FILL OVER BEDROCK. NEGATIVE VALUES IN BLUE AREAS INDICATE AREAS OF CUT INTO BEDROCK.

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NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERICK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
BLACK & VEATCH
FILANC

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

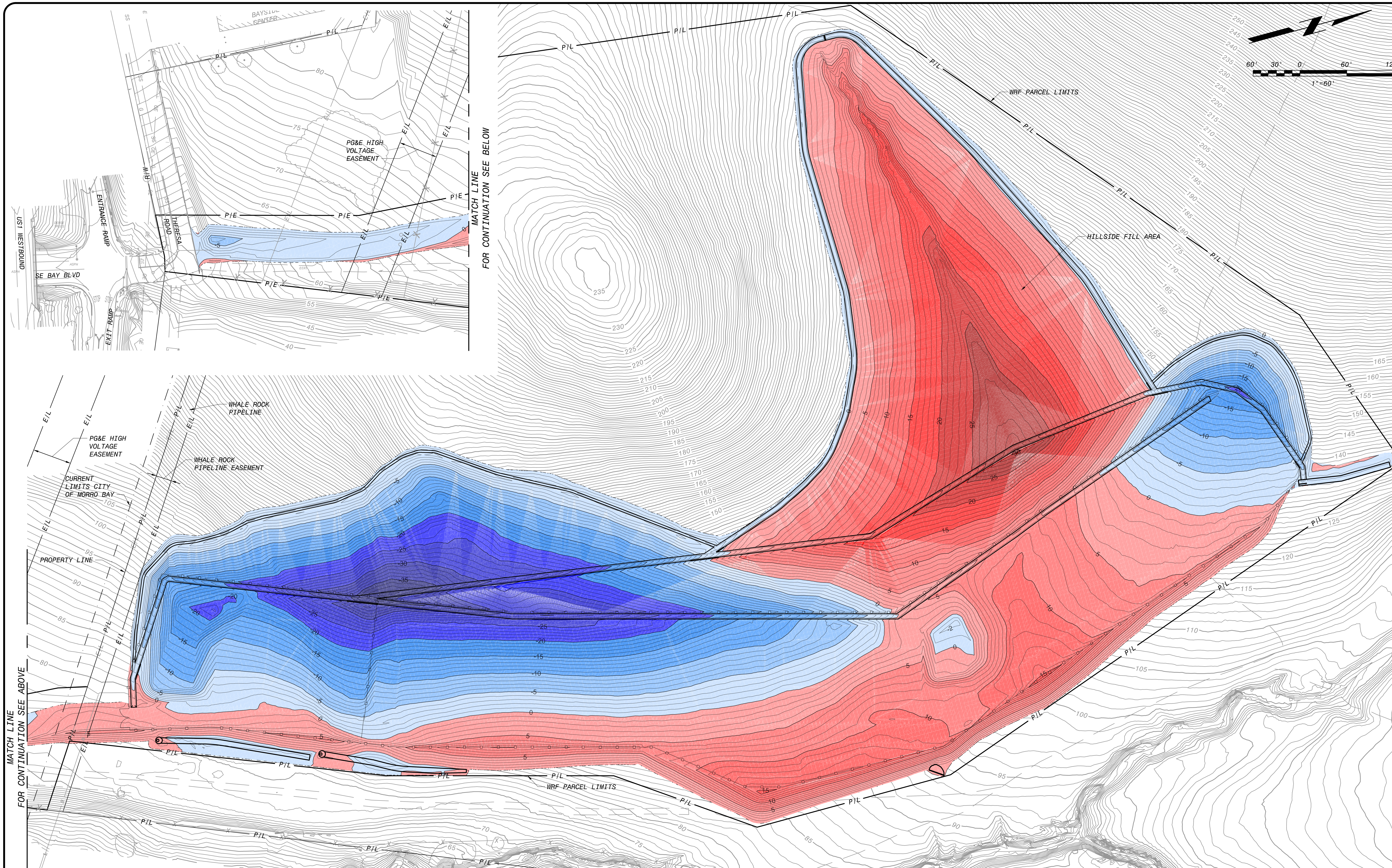
SITE - OVERALL
CIVIL
DEPTH FROM SITE PREP GRADE TO BEDROCK

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-004
SHEET
OF



NOTES:

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2. THE TOP OF THE HILLSIDE FILL AREA IS SHOWN FOR BALANCED SITE. THIS AREA CAN BE LOWERED OR RAISED AS NEEDED TO ADJUST FINAL FILL QUANTITY. CONSULT WITH ENGINEERING FOR DETAILS.
3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. THIS DRAWING SHOWS THE ESTIMATED DEPTH FROM SITE PREPARATION GRADE TO EXISTING GRADE. POSITIVE VALUES IN RED AREAS INDICATE AREAS OF NET FILL. NEGATIVE VALUES IN BLUE AREAS INDICATE AREAS OF NET CUT.

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NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERICK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
FILANC
BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
DEPTH FROM SITE PREP GRADE TO EXISTING GRADE

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

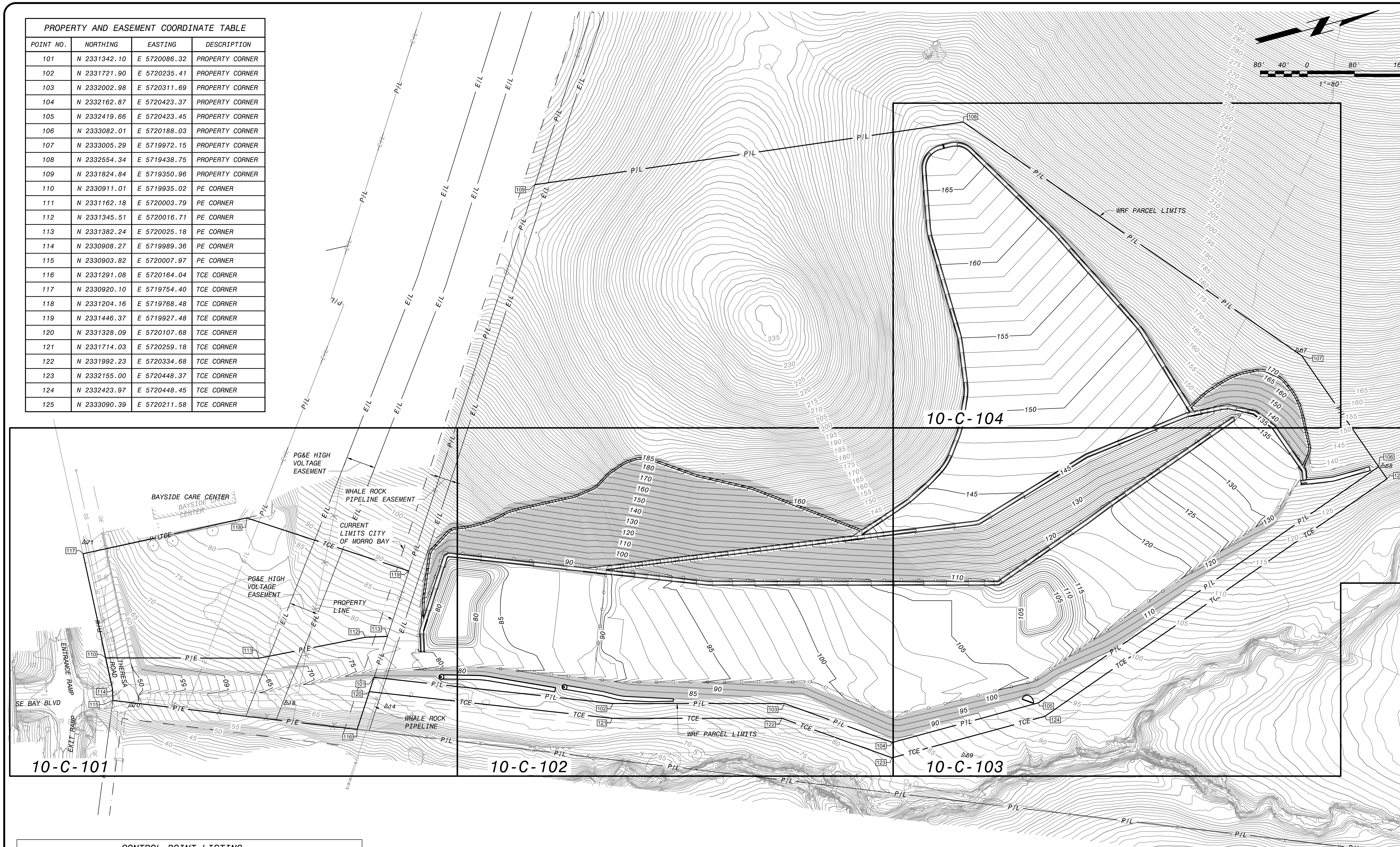
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-005
SHEET
OF

PROPERTY AND EASEMENT COORDINATE TABLE

POINT NO.	NORTHING	EASTING	DESCRIPTION
101	N 2331342.10	E 5720086.32	PROPERTY CORNER
102	N 2331721.90	E 5720235.41	PROPERTY CORNER
103	N 2332002.98	E 5720311.69	PROPERTY CORNER
104	N 2332162.87	E 5720423.37	PROPERTY CORNER
105	N 2332419.66	E 5720423.45	PROPERTY CORNER
106	N 2333082.01	E 5720188.03	PROPERTY CORNER
107	N 2333005.29	E 5719972.15	PROPERTY CORNER
108	N 2332554.34	E 5719438.75	PROPERTY CORNER
109	N 2331824.84	E 5719350.96	PROPERTY CORNER
110	N 2330911.01	E 5719935.02	PE CORNER
111	N 2331162.18	E 5720003.79	PE CORNER
112	N 2331345.51	E 5720016.71	PE CORNER
113	N 2331382.24	E 5720025.18	PE CORNER
114	N 2330908.27	E 5719989.36	PE CORNER
115	N 2330903.82	E 5720007.97	PE CORNER
116	N 2331291.08	E 5720164.04	TCE CORNER
117	N 2330920.10	E 5719754.40	TCE CORNER
118	N 2331204.16	E 5719768.48	TCE CORNER
119	N 2331446.37	E 5719927.48	TCE CORNER
120	N 2331328.09	E 5720107.68	TCE CORNER
121	N 2331714.03	E 5720259.18	TCE CORNER
122	N 2331992.23	E 5720334.68	TCE CORNER
123	N 2332155.00	E 5720448.37	TCE CORNER
124	N 2332423.97	E 5720448.45	TCE CORNER
125	N 2333090.39	E 5720211.58	TCE CORNER



CONTROL POINT LISTING

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	2331349.61	5720139.40	71.71'	SET 1" IRON PIPE & CAP "PRAXIS CONTROL"
18	2331186.96	5720089.46	66.15	SET 1" IRON PIPE & CAP "PRAXIS CONTROL"
67	2333000.17	5719961.47	179.02'	SET 1" IRON PIPE & CAP "PRAXIS CONTROL"
68	2333089.33	5720188.63	134.36'	SET 1" IRON PIPE & CAP "PRAXIS CONTROL"
69	2332273.58	5720476.13	86.60'	SET 1" IRON PIPE & CAP "PRAXIS CONTROL"
70	2330930.99	5720023.79	49.00'	SET COTTON SPINDLE IN DIRT
71	2330927.55	5719736.29	69.72'	SET COTTON SPINDLE IN AC CURB

NOTES:

1. THE WRF PLANT AREA GRADE IS SHOWN APPROXIMATELY 1 FT LOWER THAN FINISHED GRADE. THAT GRADE WILL BE FINISHED PER THE GRADING AND PAVING DRAWINGS. ALL OTHER GRADES ON THIS DRAWING ARE FINISHED GRADES.
2. THE TOP OF THE HILLSIDE FILL AREA IS SHOWN FOR BALANCED SITE. THIS AREA CAN BE LOWERED OR RAISED AS NEEDED TO ADJUST FINAL FILL QUANTITY. CONSULT WITH ENGINEERING FOR DETAILS.
3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE
0	EVB	RBG	EVB	10/4/2019	ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER ERICK V. BEVINGTON No. C 78836 CIVIL STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
FILANC
BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

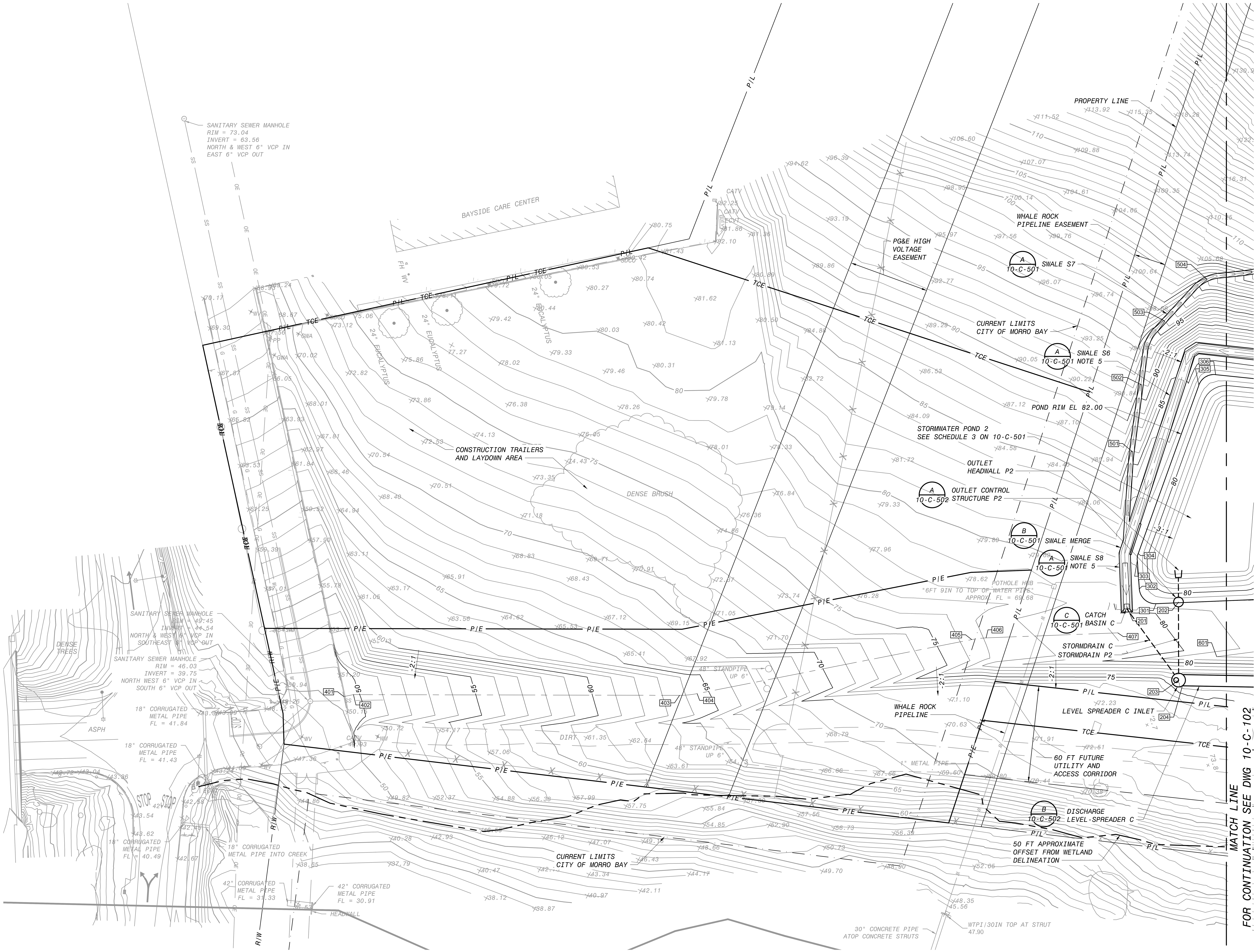
SITE - OVERALL
CIVIL
SITE PREP GRADING AND DRAINAGE KEY PLAN

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO. 400530

10-C-006
SHEET
OF



NOTES:

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3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. FILL ZONES SHALL BE BENCHED INTO BEDROCK AND DRAIN PIPING SHALL BE INSTALLED PER THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
5. SEE DRAWING 10-C-105 FOR COORDINATES AND PROFILES OF MAJOR SWALES. COORDINATE CALLOUTS FOR MINOR SWALES ARE FURNISHED ON THIS DRAWING.
6. SEE DRAWING 10-C-601 FOR COORDINATE TABLES.

30' 15' 0 30' 60'
1"=30'

DATE		NO.	BY	CHK	APP
10/4/2019	ISSUED FOR CONSTRUCTION	0	EVB	RBG	EVB
DATE	REVISIONS AND RECORD OF USE	NO.	BY	CHK	APP

REGISTERED PROFESSIONAL ENGINEER
ERIK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
FILANC
BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER
RECLAMATION FACILITY (WRF)

SITE - AREA 1
CIVIL
SITE PREP GRADING AND DRAINAGE PLAN

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-101
SHEET
OF

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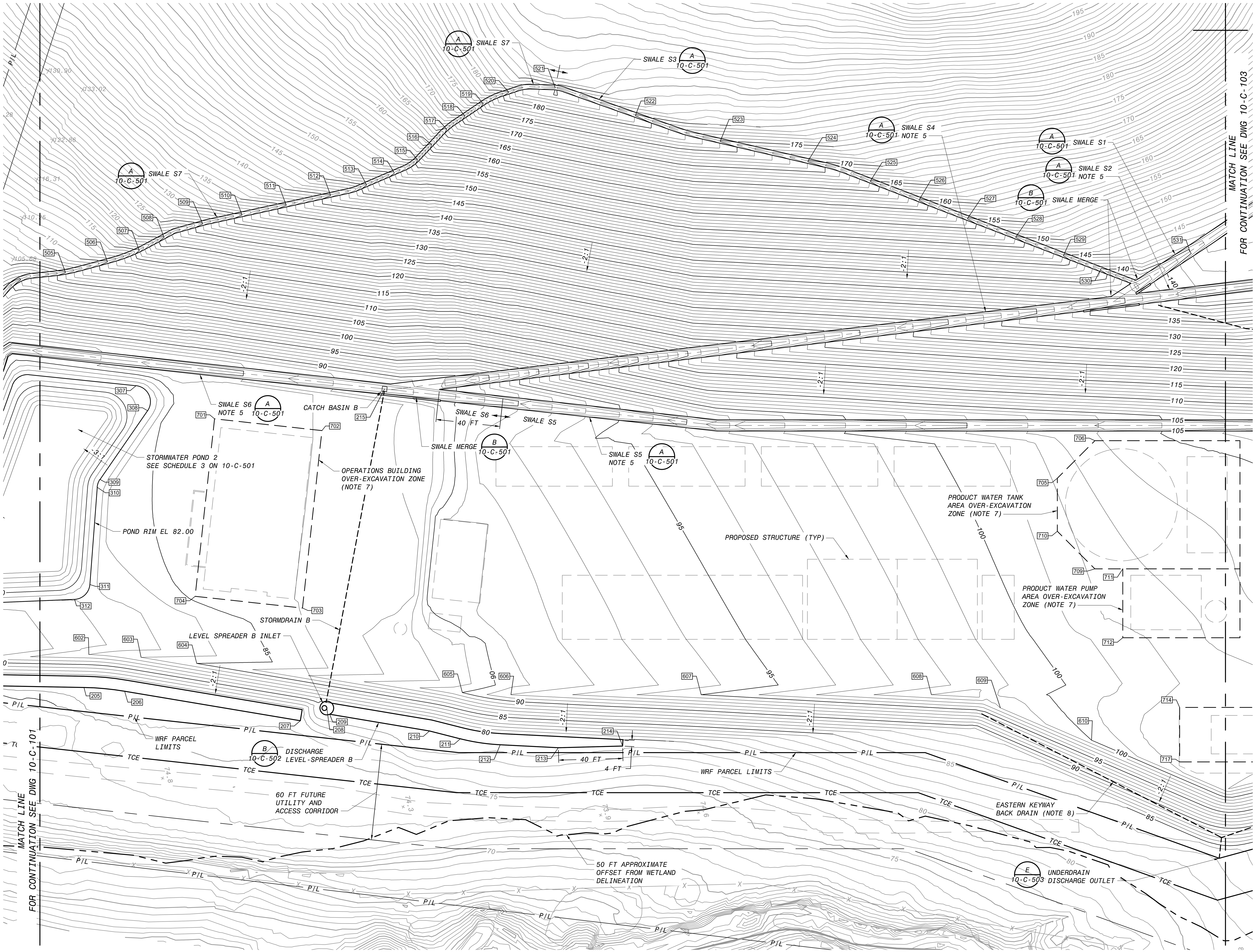

NOTES:

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3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. FILL ZONES SHALL BE BENCHED INTO BEDROCK AND DRAIN PIPING SHALL BE INSTALLED PER THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
5. SEE DRAWING 10-C-105 FOR COORDINATES AND PROFILES OF MAJOR SWALES. COORDINATE CALLOUTS FOR MINOR SWALES ARE FURNISHED ON THIS DRAWING.
6. SEE DRAWING 10-C-601 FOR COORDINATE TABLES.
7. OVER-EXCAVATION ZONES TO ESTABLISH FLAT STRUCTURAL BACKFILL BASIS ON UNDERLYING BEDROCK. SEE DRAWINGS 10-C-301 AND 10-C-302 FOR APPROXIMATE DEPTHS. COORDINATE FINAL DEPTHS AND LIMITS WITH ENGINEER.
8. INSTALL KEYWAY BACK DRAIN ALONG LENGTH OF KEYWAY PER DETAIL B/10-C-503 OR C/10-C-503. ROUTE DRAINAGE FROM BACK DRAIN IN SAME SIZE (4" MIN) NON-PERFORATED SCH 40 PVC TO DRAIN AT 1/8" SLOPE PER FOOT. CONNECT EITHER TO FILL AREA DRAIN LINE OR INSTALL SEPARATE UNDERDRAIN DISCHARGE OUTLET PER DETAIL E/10-C-503.

30' 15' 0 30' 60'

1"=30'

NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERICK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
FILANC
BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

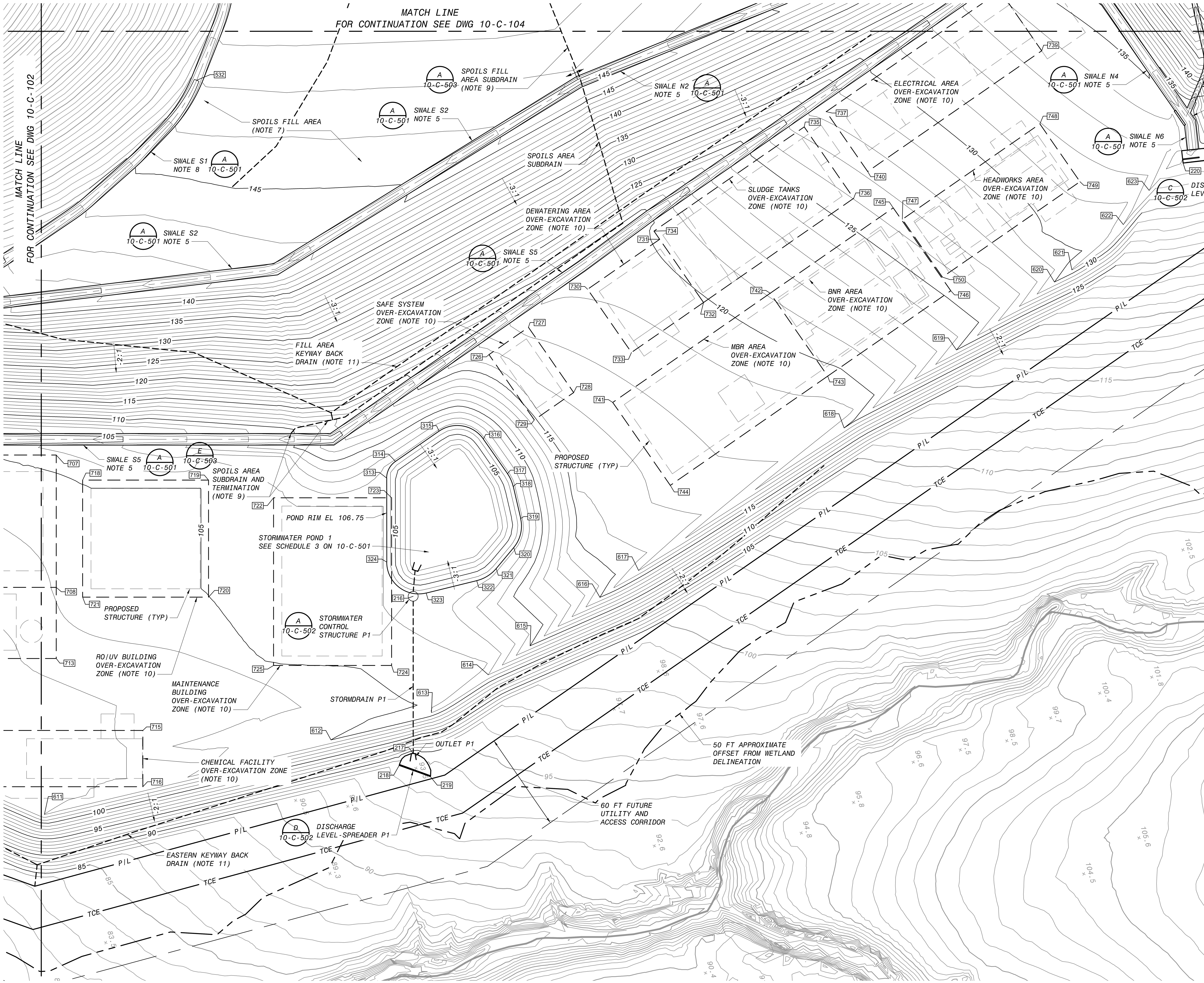
SITE - AREA 2
CIVIL
SITE PREP GRADING DRAINAGE PLAN

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-102
SHEET
OF



NOTES:

1. THE WRF PLANT AREA GRADE IS SHOWN APPROXIMATELY 1 FT LOWER THAN FINISHED GRADE. THAT GRADE WILL BE FINISHED PER THE GRADING AND PAVING DRAWINGS. ALL OTHER GRADES ON THIS DRAWING ARE FINISHED GRADES.
2. THE TOP OF THE HILLSIDE FILL AREA IS SHOWN FOR BALANCED SITE. THIS AREA CAN BE LOWERED OR RAISED AS NEEDED TO ADJUST FINAL FILL QUANTITY. CONSULT WITH ENGINEERING FOR DETAILS.
3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. FILL ZONES SHALL BE BENCHED INTO BEDROCK AND DRAIN PIPING SHALL BE INSTALLED PER THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
5. SEE DRAWING 10-C-105 FOR COORDINATES AND PROFILES OF MAJOR SWALES. COORDINATE CALLOUTS FOR MINOR SWALES ARE FURNISHED ON THIS DRAWING.
6. SEE DRAWING 10-C-601 FOR COORDINATE TABLES.
7. GRADING FOR SPOILS FILL AREA SHOWN IS APPROXIMATE TO PROVIDE BALANCED CUT/FILL. THIS AREA IS DESIGN TO ALLOW FOR FILL TO BE INCREASED OR DECREASED BY APPROXIMATELY 10,000 CUBIC YARDS AS REQUIRED FOR SITE BALANCE. MINIMUM SLOPE OF 2% AND MAXIMUM SLOPE OF 5:1 UNLESS OTHERWISE APPROVED BY ENGINEERING. CONSULT WITH ENGINEER FOR REVISED GRADING AS REQUIRED.
8. LOCATE THE SPOILS FILL AREA PERIMETER SWALES AT THE INTERSECTION OF EXISTING AND FILL GRADES WITH MINIMUM LONGITUDINAL SLOPE OF 1%. APPROXIMATE LOCATION IS SHOWN ON THIS DRAWING BUT FINAL LOCATION MAY VARY DEPENDING ON CUT/FILL BALANCE.
9. LOCATE SPOILS FILL AREA SUBDRAIN IN EXISTING DRAINAGE VALLEY. COORDINATE REQUIRED DEPTH OF DRAIN WITH ENGINEER BASED ON REQUIRED BENCH DEPTHS. AT DOWNHILL END OF SUBDRAIN, TRANSITION TO RIGID NON-PERFORATED SCHEDULE 40 PVC AND ROUTE ALONG BASE OF FILL ZONE WITH MIN COVER OF 3 FEET AT MIN SLOPE OF 1/8" PER FOOT UNTIL DRAIN CAN BE DAYLIGHTED OVER RIM OF THE HILLSIDE TOE SWALE FOR DISCHARGE PER DETAIL E/10-C-503.
10. OVER-EXCAVATION ZONES TO ESTABLISH FLAT STRUCTURAL BACKFILL BASIS ON UNDERLYING BEDROCK. SEE DRAWINGS 10-C-301 AND 10-C-302 FOR APPROXIMATE DEPTHS. COORDINATE FINAL DEPTHS AND LIMITS WITH ENGINEER.
11. INSTALL KEYWAY BACK DRAIN ALONG LENGTH OF KEYWAY PER DETAIL B/10-C-503 OR C/10-C-503. ROUTE DRAINAGE FROM BACK DRAIN IN SAME SIZE (4" MIN) NON-PERFORATED SCH 40 PVC TO DRAIN AT 1/8" SLOPE PER FOOT. CONNECT EITHER TO FILL AREA DRAIN LINE OR INSTALL SEPARATE UNDERDRAIN DISCHARGE OUTLET PER DETAIL E/10-C-503.

30' 15' 0 30' 60'
1"=30'

NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERICK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
FILANC
BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - AREA 3
CIVIL
SITE PREP GRADING DRAINAGE PLAN

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-103
SHEET
OF

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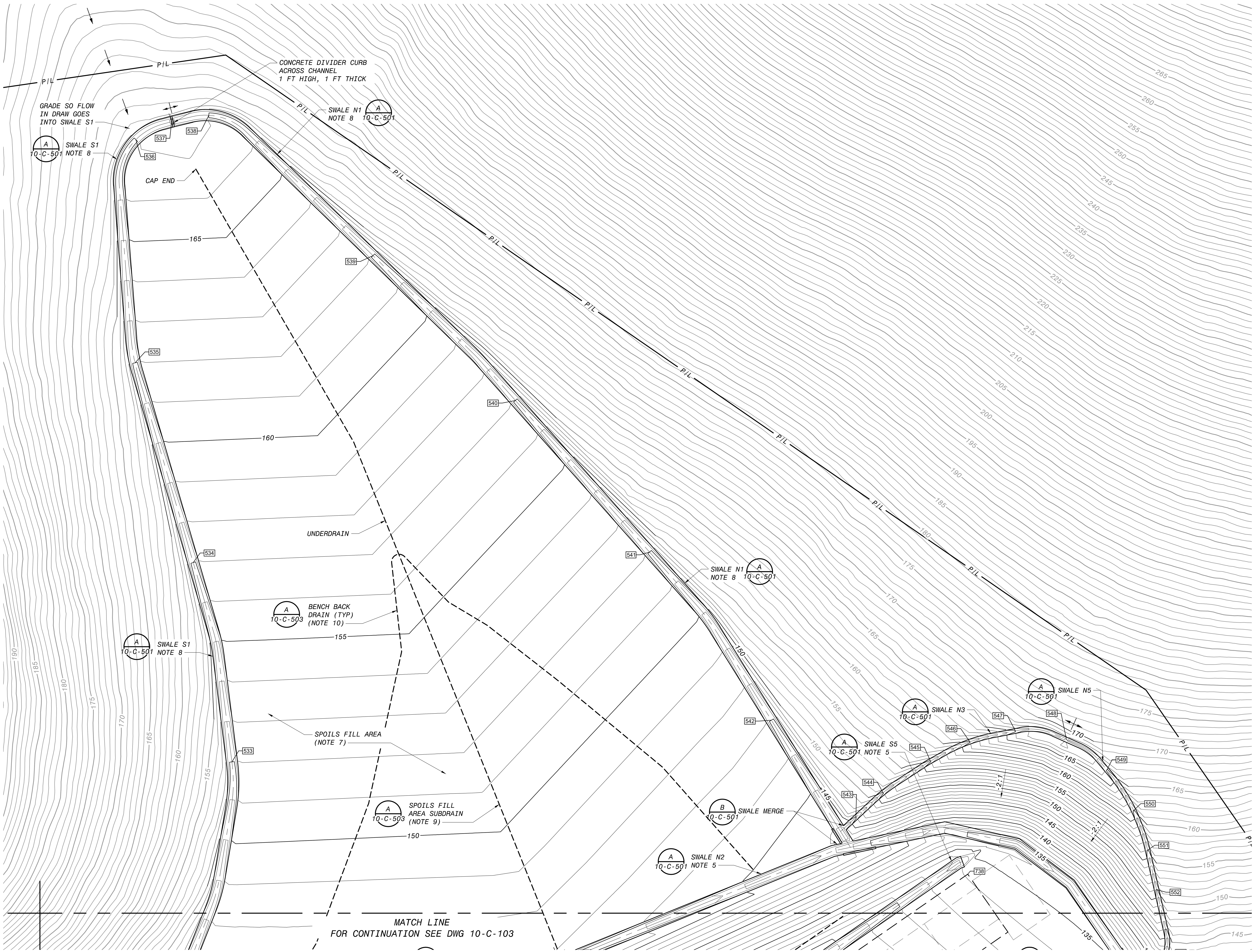

NOTES:

1. THE WRF PLANT AREA GRADE IS SHOWN APPROXIMATELY 1 FT LOWER THAN FINISHED GRADE. THAT GRADE WILL BE FINISHED PER THE GRADING AND PAVING DRAWINGS. ALL OTHER GRADES ON THIS DRAWING ARE FINISHED GRADES.
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3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. FILL ZONES SHALL BE BENCHED INTO BEDROCK AND DRAIN PIPING SHALL BE INSTALLED PER THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
5. SEE DRAWING 10-C-105 FOR COORDINATES AND PROFILES OF MAJOR SWALES. COORDINATE CALLOUTS FOR MINOR SWALES ARE FURNISHED ON THIS DRAWING.
6. SEE DRAWING 10-C-601 FOR COORDINATE TABLES.
7. GRADING FOR SPOILS FILL AREA SHOWN IS APPROXIMATE TO PROVIDE BALANCED CUT/FILL. THIS AREA IS DESIGN TO ALLOW FOR FILL TO BE INCREASED OR DECREASED BY APPROXIMATELY 10,000 CUBIC YARDS AS REQUIRED FOR SITE BALANCE. MINIMUM SLOPE OF 2% AND MAXIMUM SLOPE OF 5:1 UNLESS OTHERWISE APPROVED BY ENGINEERING. CONSULT WITH ENGINEER FOR REVISED GRADING AS REQUIRED.
8. LOCATE THE SPOILS FILL AREA PERIMETER SWALES AT THE INTERSECTION OF EXISTING AND FILL GRADES WITH MINIMUM LONGITUDINAL SLOPE OF 1%. APPROXIMATE LOCATION IS SHOWN ON THIS DRAWING BUT FINAL LOCATION MAY VARY DEPENDING ON CUT/FILL BALANCE.
9. LOCATE SPOILS FILL AREA SUBDRAIN IN EXISTING DRAINAGE VALLEY. COORDINATE REQUIRED DEPTH OF DRAIN WITH ENGINEER BASED ON REQUIRED BENCH DEPTHS. AT DOWNHILL END OF SUBDRAIN, TRANSITION TO RIGID NON-PERFORATED SCHEDULE 40 PVC AND ROUTE ALONG BASE OF FILL ZONE WITH MIN COVER OF 3 FEET AT MIN SLOPE OF 1/8" PER FOOT UNTIL DRAIN CAN BE DAYLIGHTED OVER RIM OF THE HILLSIDE TOE SWALE FOR DISCHARGE PER DETAIL E/10-C-503.
10. INSTALL BENCH BACK DRAINS ON EACH BENCH WITHIN SPOILS FILL AREA UNLESS OTHERWISE CONFIRMED BY ENGINEER. BACK DRAINS CAN DRAIN TO SPOILS FILL AREA SUBDRAIN OR OUT HILLSIDE DRAIN PIPES PER DETAIL.

NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERIC V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH | JOINT VENTURE | FILANC | BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER
RECLAMATION FACILITY (WRF)

SITE - AREA 4
CIVIL
SITE PREP GRADING DRAINAGE PLAN

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-104
SHEET
OF

FD9000A
D400530
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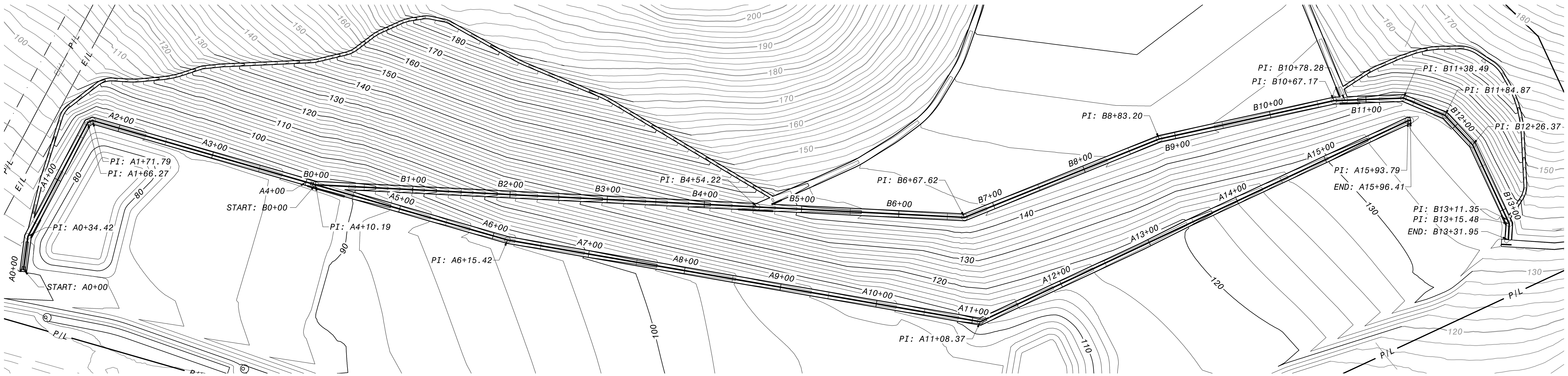
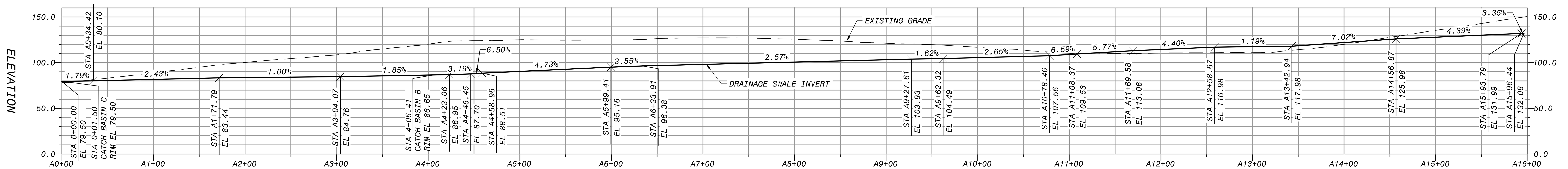


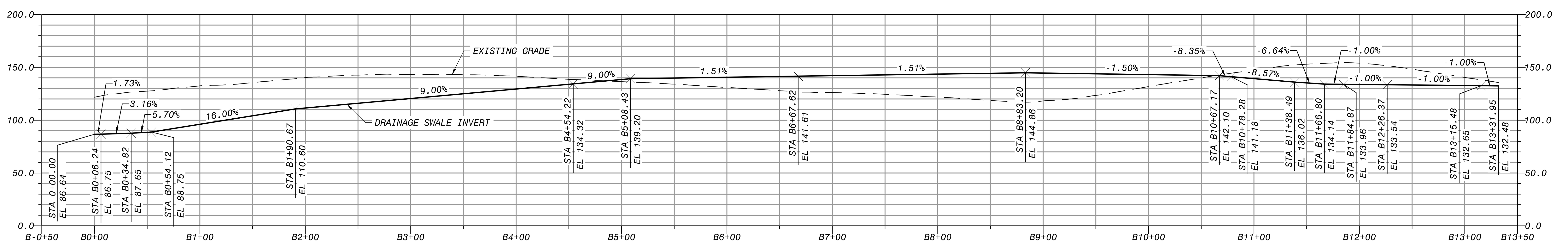
DRAINAGE SWALE PLAN

1" = 60'



DRAINAGE SWALE PROFILE A

1" = 60'



DRAINAGE SWALE PROFILE B

1" = 60'

DRAINAGE SWALE PI STATION COORDINATES

PI STATION	NORTHING	EASTING
A0+00.00	2331433.31	5720064.13
A0+34.42	2331441.04	5720030.60
A1+66.27	2331513.11	5719920.18
A1+71.79	2331518.38	5719918.54
A4+10.19	2331740.29	5720005.65
A6+15.42	2331931.33	5720080.65
A11+08.37	2332407.07	5720209.75
A15+93.79	2332863.96	5720045.76
A15+96.41	2332866.56	5720045.54

PI STATION	NORTHING	EASTING
B0+00.00	2331740.29	5720005.65
B4+54.22	2332189.79	5720070.94
B6+67.62	2332400.98	5720101.62
B8+83.20	2332607.66	5720040.30
B10+67.17	2332790.26	5720017.96
B10+78.28	2332801.35	5720018.61
B11+38.49	2332861.46	5720022.08
B11+84.87	2332902.43	5720043.83
B12+26.37	2332927.79	5720076.68
B13+11.35	2332956.25	5720156.75
B13+15.48	2332957.63	5720160.64
B13+31.95	2332955.16	5720176.92

NOTES:

1. COORDINATES AND ELEVATIONS SHOWN ARE FOR THE INVERT OF THE SWALES AT THE CENTERLINES.

60' 30' 0 60' 120'
1"=60'

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No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
BLACK & VEATCH
FILANC

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
DRAINAGE SWALES PLAN AND PROFILES

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
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PROJECT NO.
400530

10-C-105
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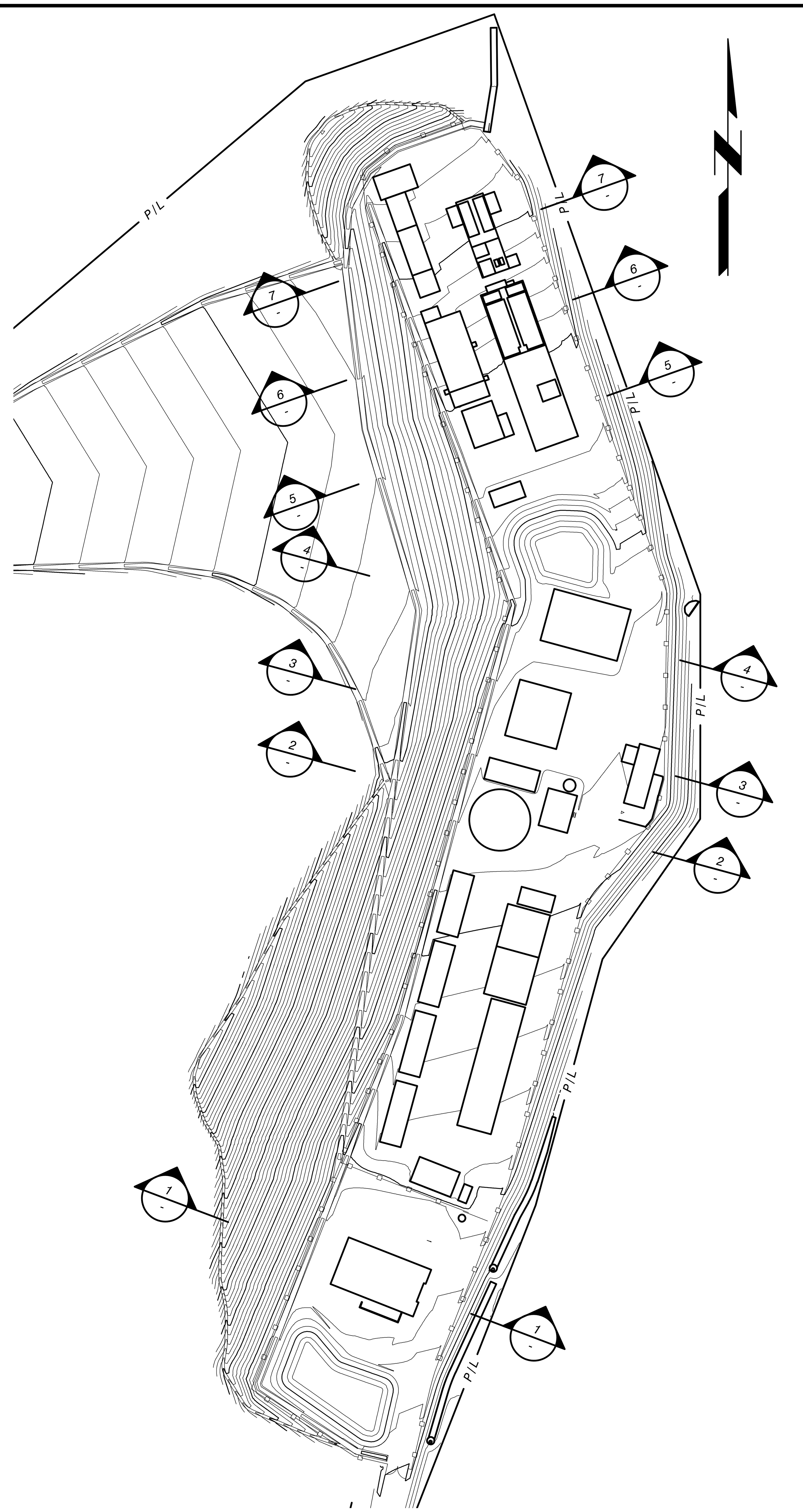
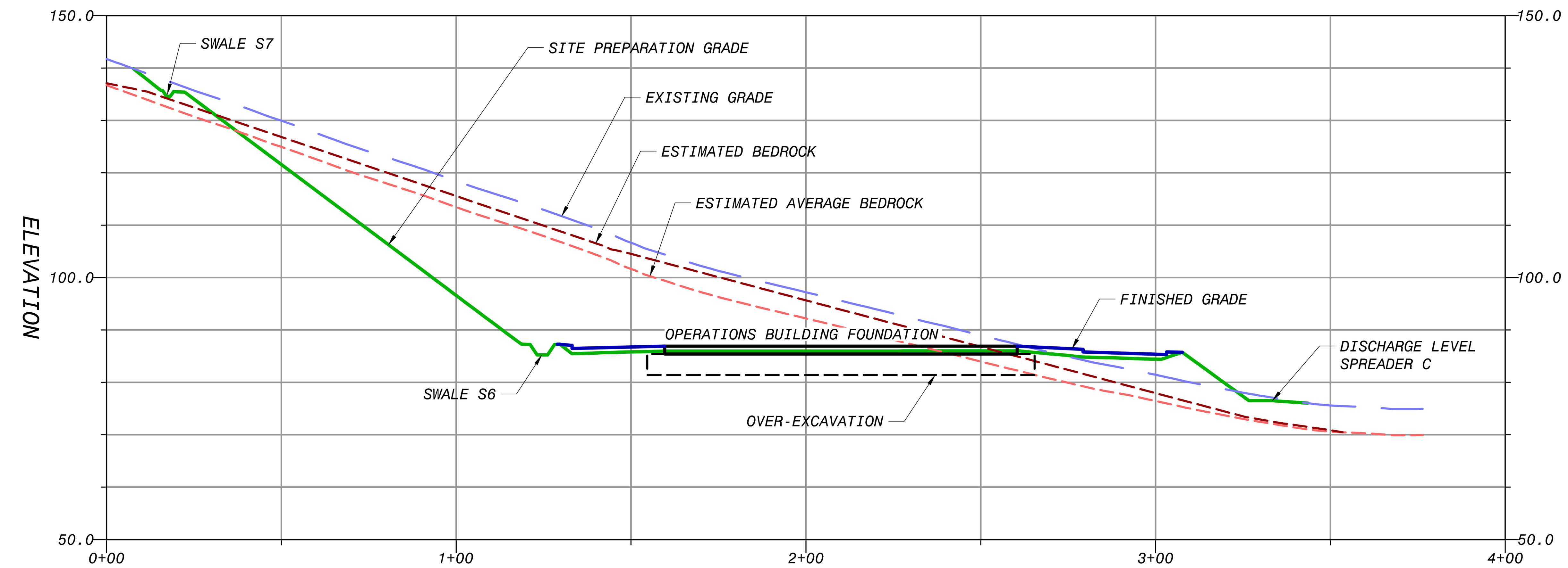
OF

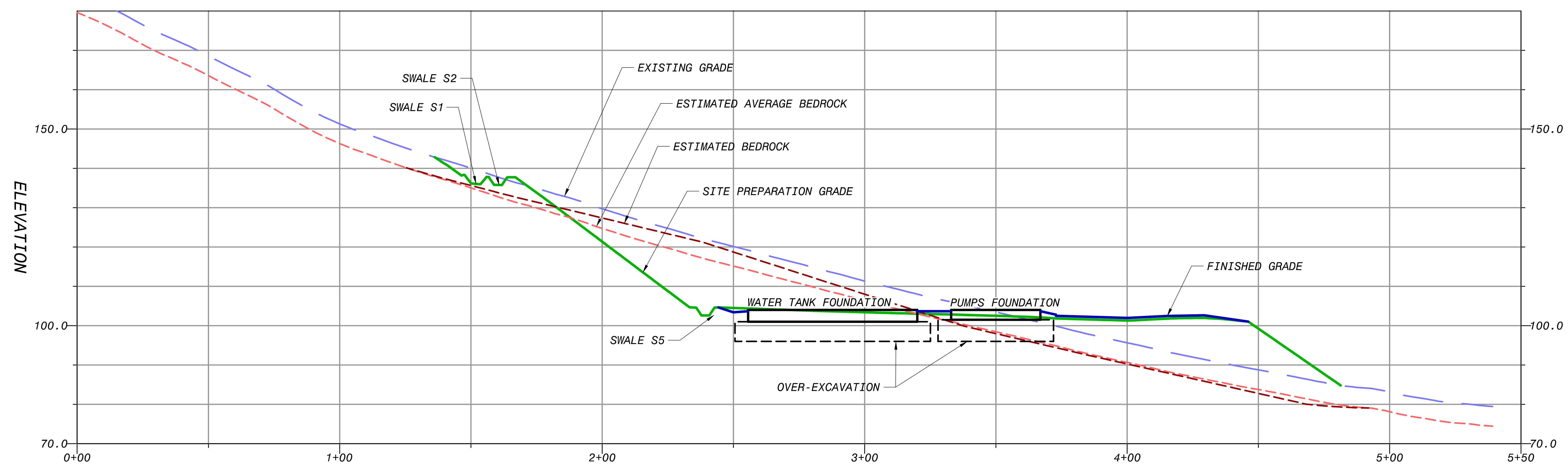
FD9000A
D40530
PLOTTED: 10/4/2019 3:52 PM FILE: C:\pw_working\bvw_americas\d0683625\400530-10-C-105.dwg



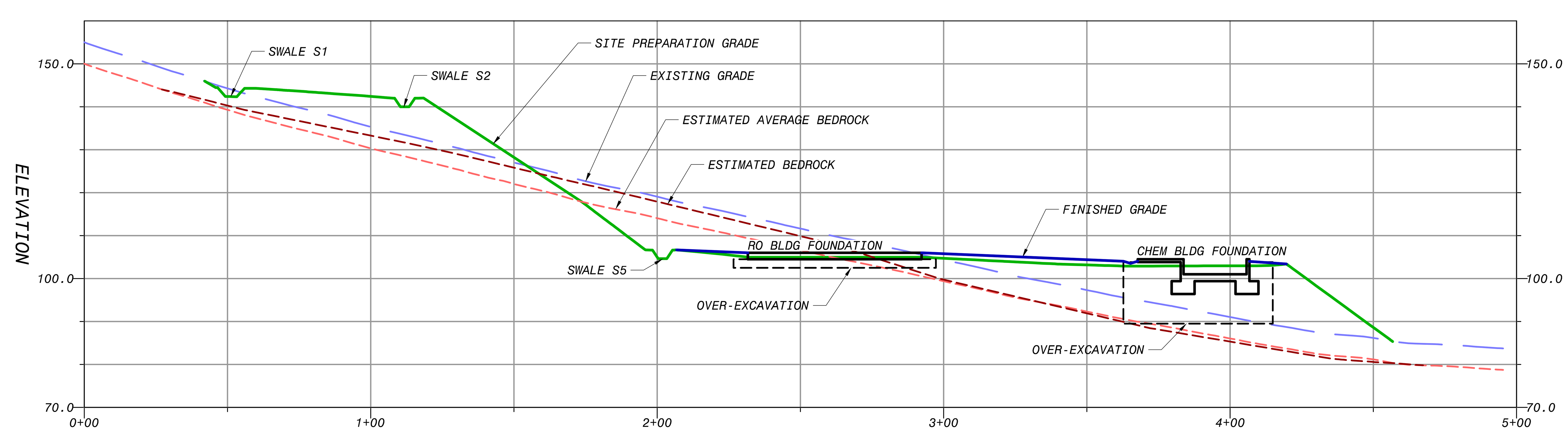
SECTION KEY PLAN
SCALE 1"=100'



1 OPERATIONS BULDING
SCALE: HORIZ 1"=30'
VERT 1"=20'



2 PRODUCT WATER TANK AND PUMPS
SCALE: HORIZ 1"=30'
VERT 1"=20'



3 CHEMICAL FACILITY AND RO/UV BUILDING
SCALE: HORIZ 1"=30'
VERT 1"=20'

NOTES:

1. THE WRF PLANT AREA GRADE IS SHOWN APPROXIMATELY 1 FT LOWER THAN FINISHED GRADE. THAT GRADE WILL BE FINISHED PER THE GRADING AND PAVING DRAWINGS. ALL OTHER GRADES ON THIS DRAWING ARE FINISHED GRADES.
2. THE TOP OF THE HILLSIDE FILL AREA IS SHOWN FOR BALANCED SITE. THIS AREA CAN BE LOWERED OR RAISED AS NEEDED TO ADJUST FINAL FILL QUANTITY. CONSULT WITH ENGINEERING FOR DETAILS.
3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
4. THIS DRAWING SHOWS THE ESTIMATED BEDROCK LEVEL AND ARITHMETIC AVERAGE BEDROCK LEVEL BASED ON DEPTH TO BEDROCK DATA FROM THE PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT DATED 7/1/2019.

LEGEND

(long dash)	EXISTING GRADE
(dashed)	ESTIMATED BEDROCK
(dashed)	AVERAGE ESTIMATED BEDROCK
(solid)	FINISHED GRADE
(solid)	SITE PREPARATION GRADE
(dashed)	OVER-EXCAVATION UNDER STRUCTURES

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No. C 78836
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BLACK & VEATCH
JOINT VENTURE
FILANC
BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
SITE PREP SECTIONS 1

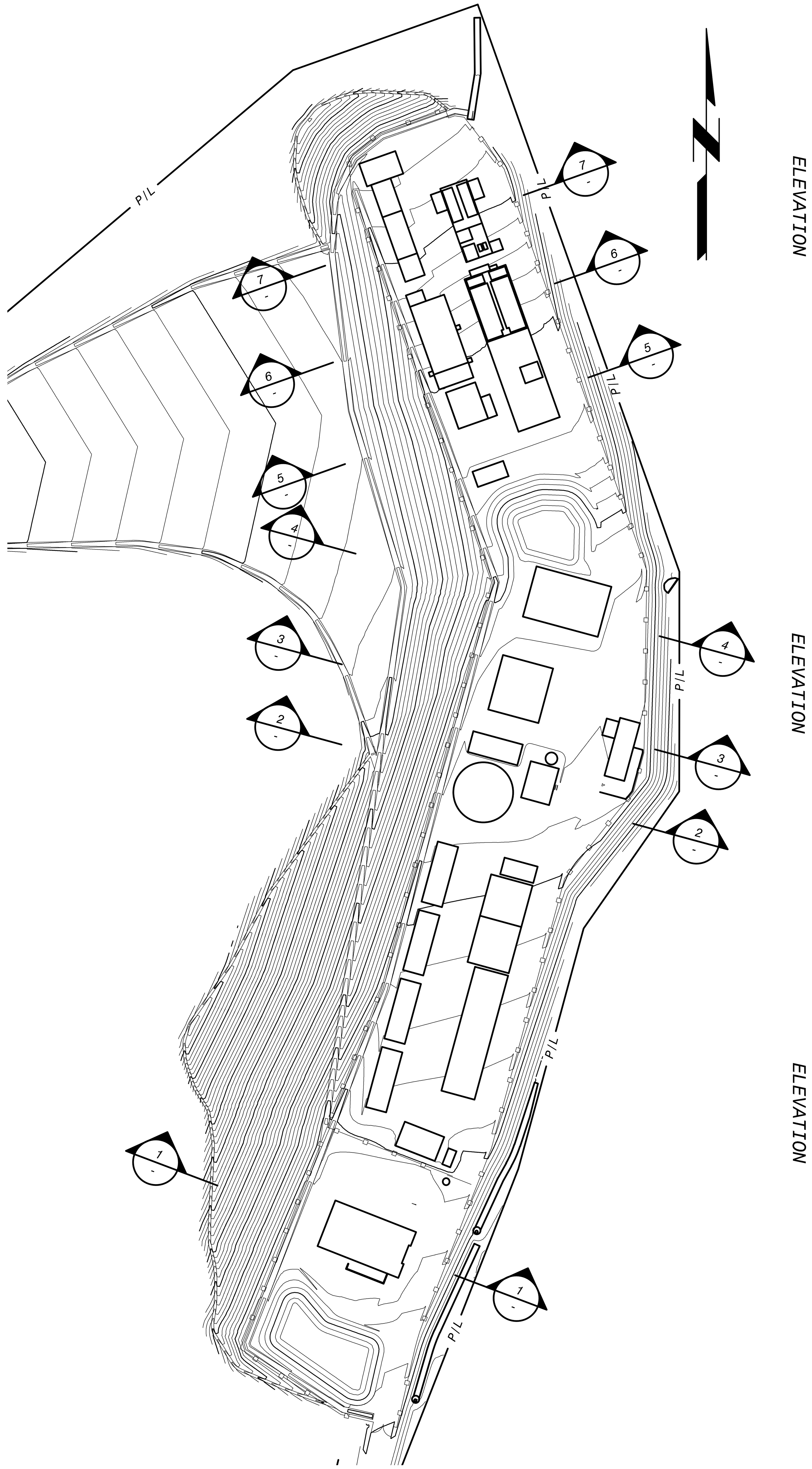
DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-301
SHEET
OF

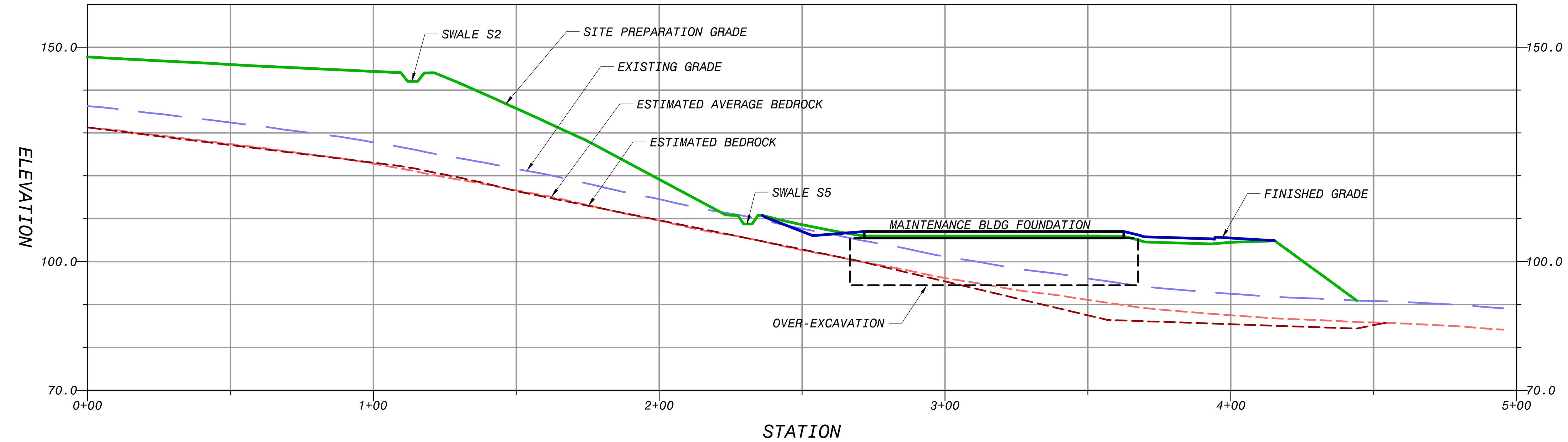
FD9000A
D400530
PLOTTED: 10/4/2019 3:52 PM FILE: C:\pw_working\bvw_americas\d0683625\400530-10-C-301.dwg



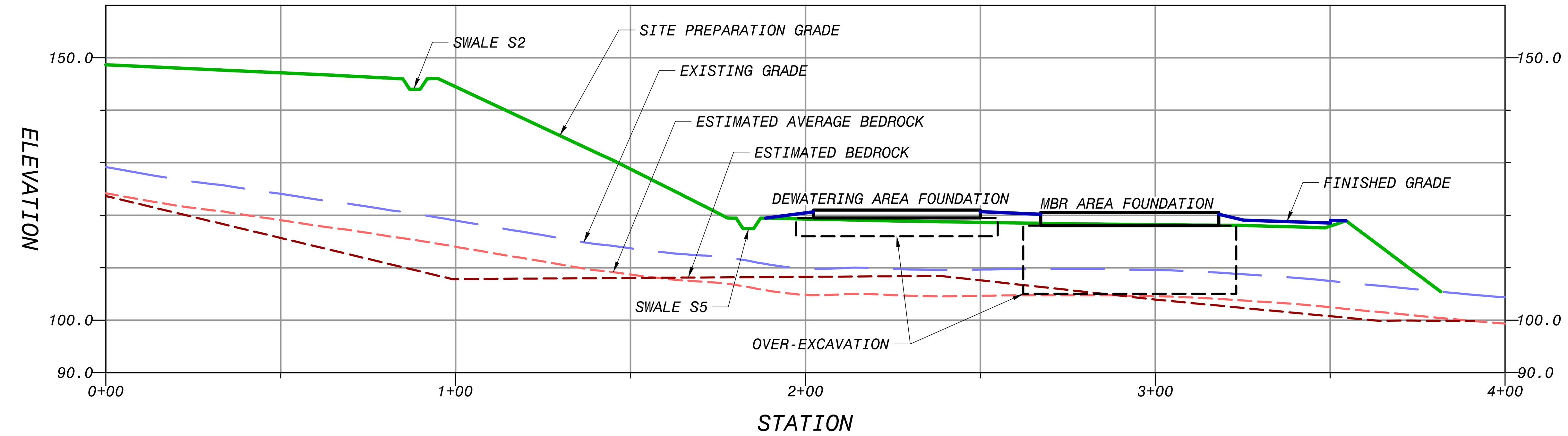
SECTION KEY PLAN
SCALE 1"=100'

LEGEND

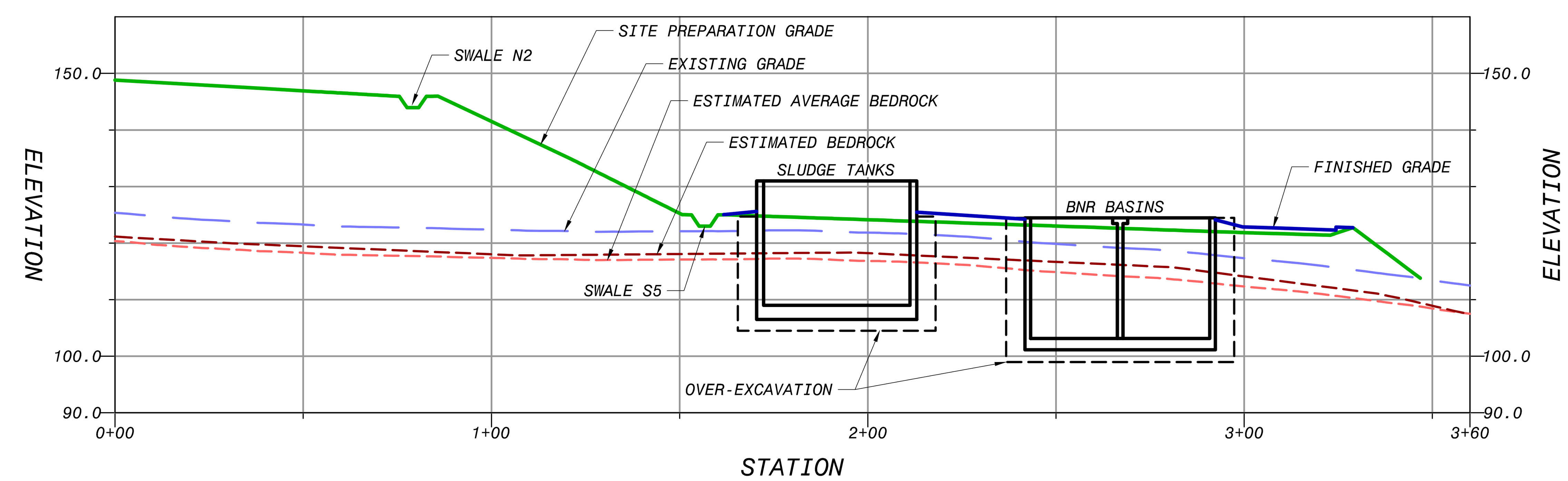
- EXISTING GRADE
- ESTIMATED BEDROCK
- AVERAGE ESTIMATED BEDROCK
- FINISHED GRADE
- SITE PREPARATION GRADE
- OVER-EXCAVATION UNDER STRUCTURES



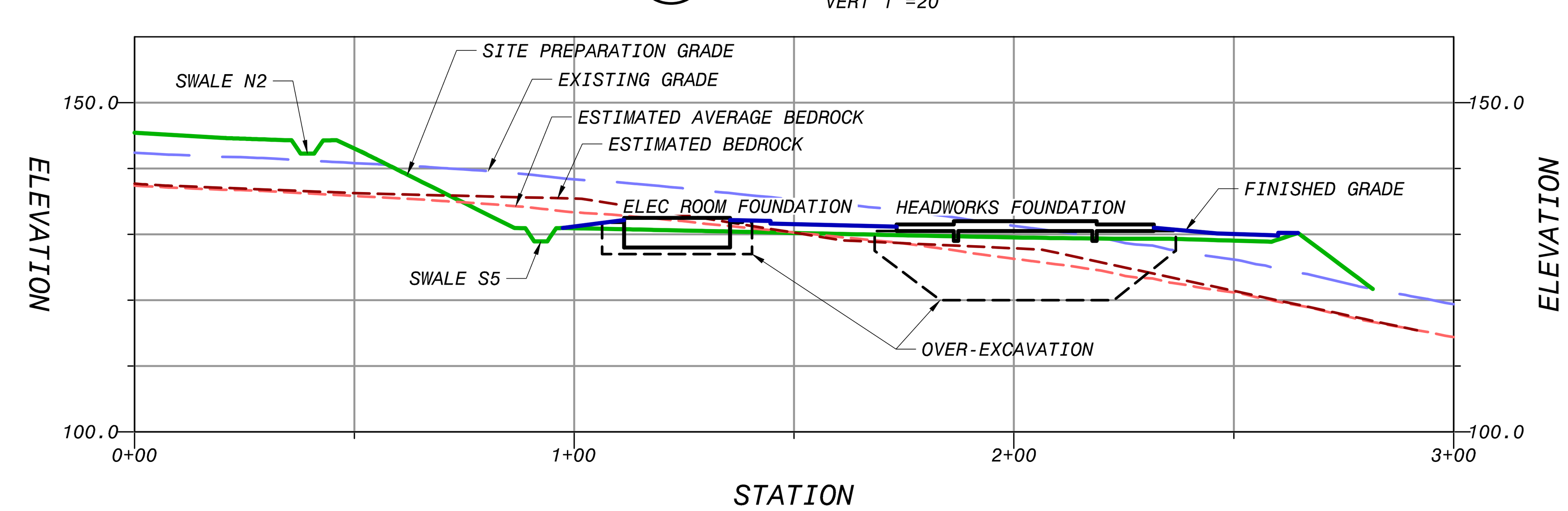
4 MAINTENANCE BUILDING
SCALE: HORIZ 1"=30'
VERT 1"=20'



5 MBR AND DEWATERING
SCALE: HORIZ 1"=30'
VERT 1"=20'



6 BNR AND SLUDGE HOLDING TANKS
SCALE: HORIZ 1"=30'
VERT 1"=20'



6 HEADWORKS AND ELECTRICAL BUILDING
SCALE: HORIZ 1"=30'
VERT 1"=20'

NOTES:

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3. SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS ON SWALES, CULVERTS, CATCH BASINS, INLETS, CONTROL STRUCTURES, HEADWALLS, OUTLETS, AND DISCHARGE LEVEL-SPREADERS.
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DATE	REVISIONS AND RECORD OF USE	NO.	BY	CHK	APP
10/4/2019	ISSUED FOR CONSTRUCTION	0	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER · ERICK V. BEVINGTON · No. C 78836 · CIVIL · STATE OF CALIFORNIA

BLACK & VEATCH · JOINT VENTURE · FILANC · BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
SITE PREP SECTIONS 2

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
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PROJECT NO.
400530

10-C-302
SHEET
OF

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D400530
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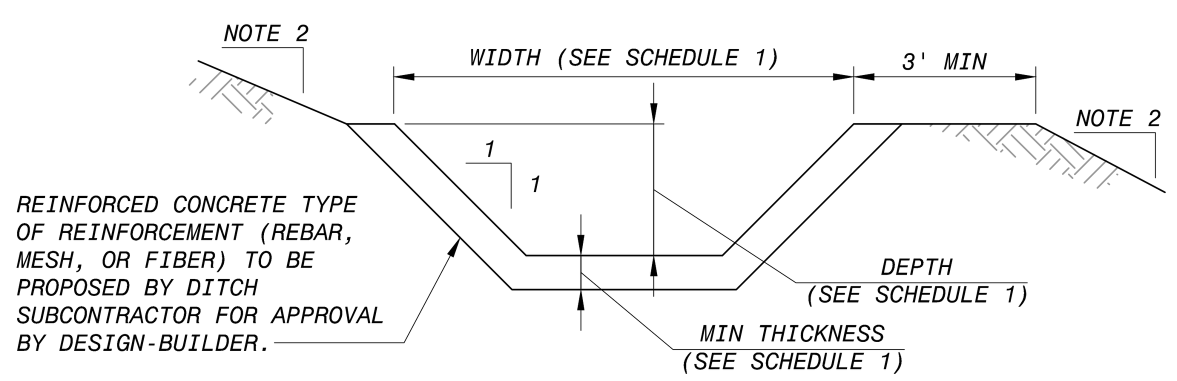


SCHEDULE 1 - SWALES			
SWALE	WIDTH	DEPTH	NOTES
N1	7'	2'	
N2	7'	2'	
N3	3'	1'	
N4	7'	2'	
N5	3'	1'	
N6	7'	2'	
S1	7'	2'	
S2	7'	2'	
S3	3'	1'	
S4	7'	2'	
S5	7'	2'	PERMISSIBLE TO SUBSTITUTE CONCRETE LINING WITH CLASS I RIP-RAP (NOTE 1)
S6	7'	2'	
S7	3'	1'	
S8	7'	2'	

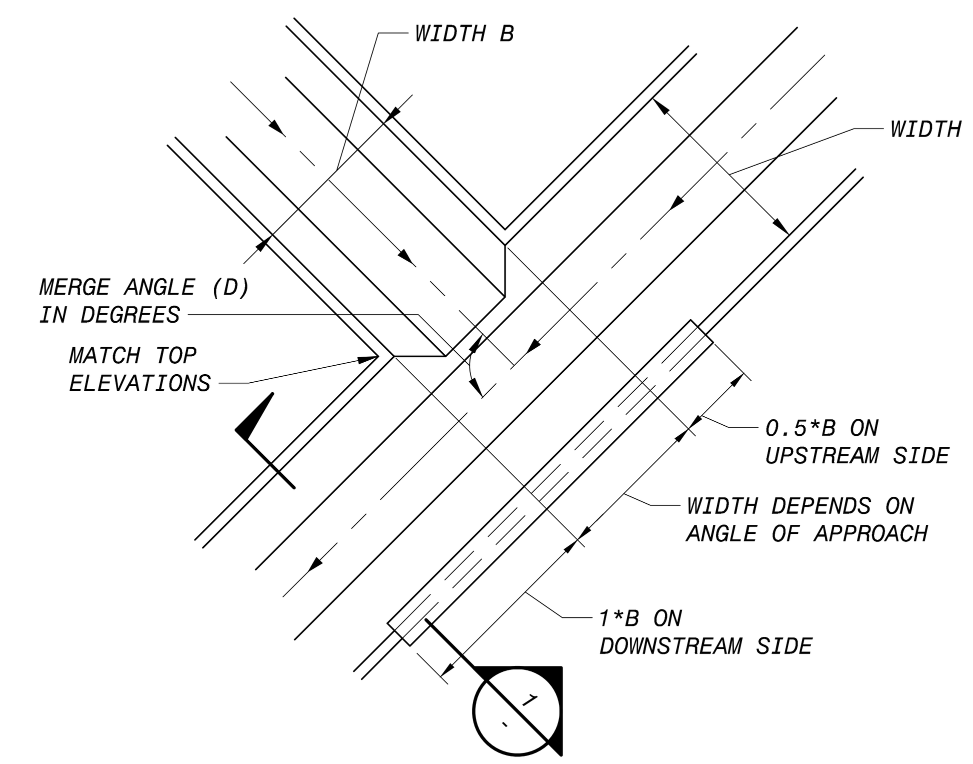
NOTES:

1. SWALE SLOPE PER PROFILE OR COORDINATES. ADJUSTMENT AS NEEDED FOR PROPER INSTALLATION IS PERMISSIBLE AS LONG AS SLOPE OF SWALE IS 1% OR STEEPER.
2. GRADE SLOPES PER DRAWINGS OR AS NEEDED FOR PROPER INSTALLATION. MAXIMUM SLOPE OF 2H:1V.
3. MINIMUM SWALE THICKNESS TO BE PROPOSED BY DITCH SUBCONTRACTOR FOR APPROVAL BY DESIGN-BUILDER.

A / - SWALE SECTION
NO SCALE

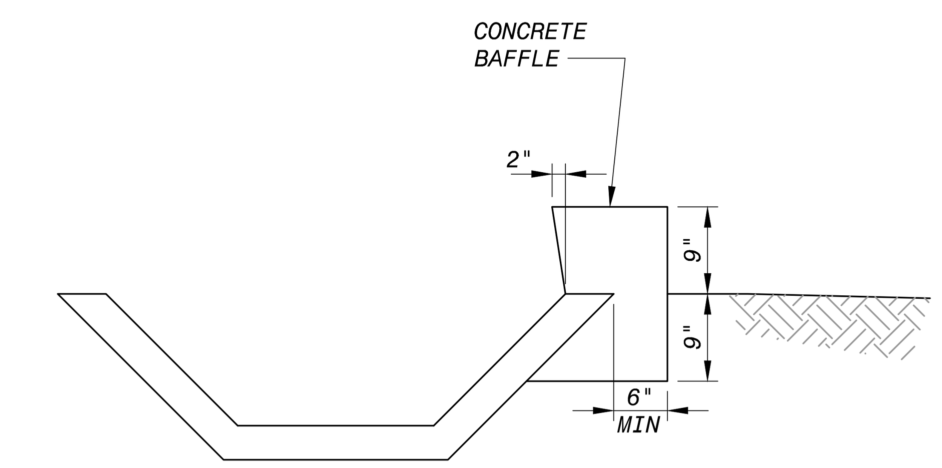
SCHEDULE 2 - STORM DRAINS					
SD	SIZE	MATERIAL	INLET INV	OUTLET INV	LENGTH
P1	18"	DR 37.5 PVC	100.00'	92.00'	103'
B	24"	DR 37.5 PVC	78.67'	76.50'	197'
P2	18"	DR 37.5 PVC	71.50'	71.00'	41'
C	24"	DR 37.5 PVC	70.50'	70.00'	51'

SCHEDULE 3 - STORM PONDS						
POND	FLOOR EL	OP WS EL	RIM EL	FREEBOARD	OP VOLUME	WATER QUALITY MEASURES
1 (NORTH)	101.50'	104.29'	106.75'	2.46'	9,620 CF	FIRST-FLUSH CAPTURE AND PUMP TO HEAD OF PLANT, OUTLET 6" ABOVE FLOOR FOR SEDIMENTATION, PLANTED BASIN FOR FILTRATION.
2 (SOUTH)	76.00'	80.12'	82.00'	1.88'	24,550 CF	OUTLET 6" ABOVE FLOOR FOR SEDIMENTATION, PLANTED BASIN FOR FILTRATION.



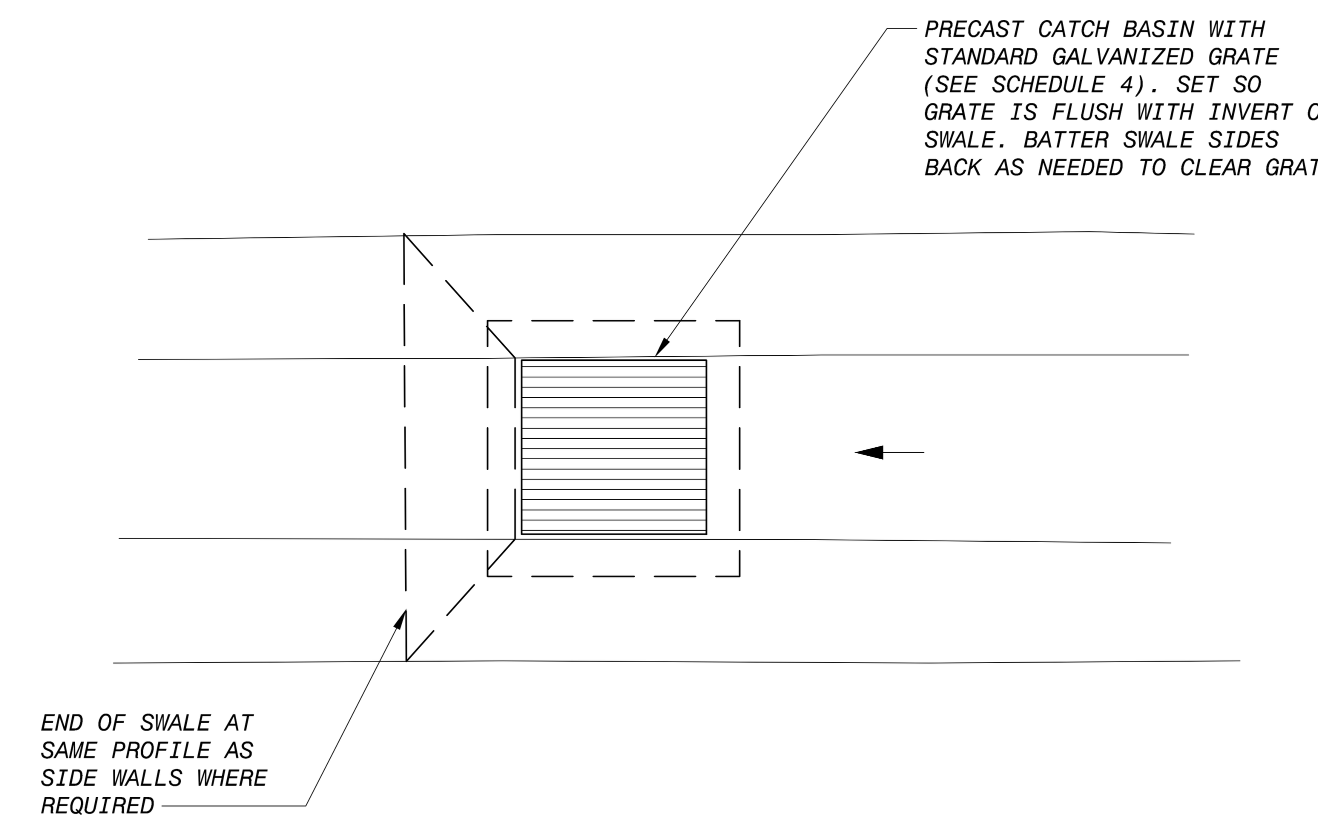
PLAN

B / - SWALE MERGE
NO SCALE



BAFFLE SECTION

1 / - SECTION
NO SCALE



SCHEDULE 4 - CATCH BASINS								
	GRATE			BOX INTERNAL			OUTLET	
CATCH BASIN	RIM EL	LENGTH	WIDTH	FLOOR EL	LENGTH	WIDTH	INV	SIZE
B	86.65'	3'	3'	78.67'	3'	3'	78.67'	24" DR 37.5 PVC
C	79.50'	3'	3'	70.50'	3'	3'	70.50'	24" DR 37.5 PVC

NOTES:

1. GRATE SHALL BE 88% FLOW AREA OR GREATER.

C / - SWALE CATCH BASIN
NO SCALE

0	EVB	RBG	EVB	
10/4/2019	ISSUED FOR CONSTRUCTION			
DATE	REVISIONS AND RECORD OF USE	NO.	BY	CHK APP

REGISTERED PROFESSIONAL ENGINEER ERICK V. BEVINGTON No. C 78836 CIVIL STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
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BLACK & VEATCH

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
SITE PREP GRADING AND DRAINAGE DETAILS 1

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
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PROJECT NO.
400530

10-C-501
SHEET
OF

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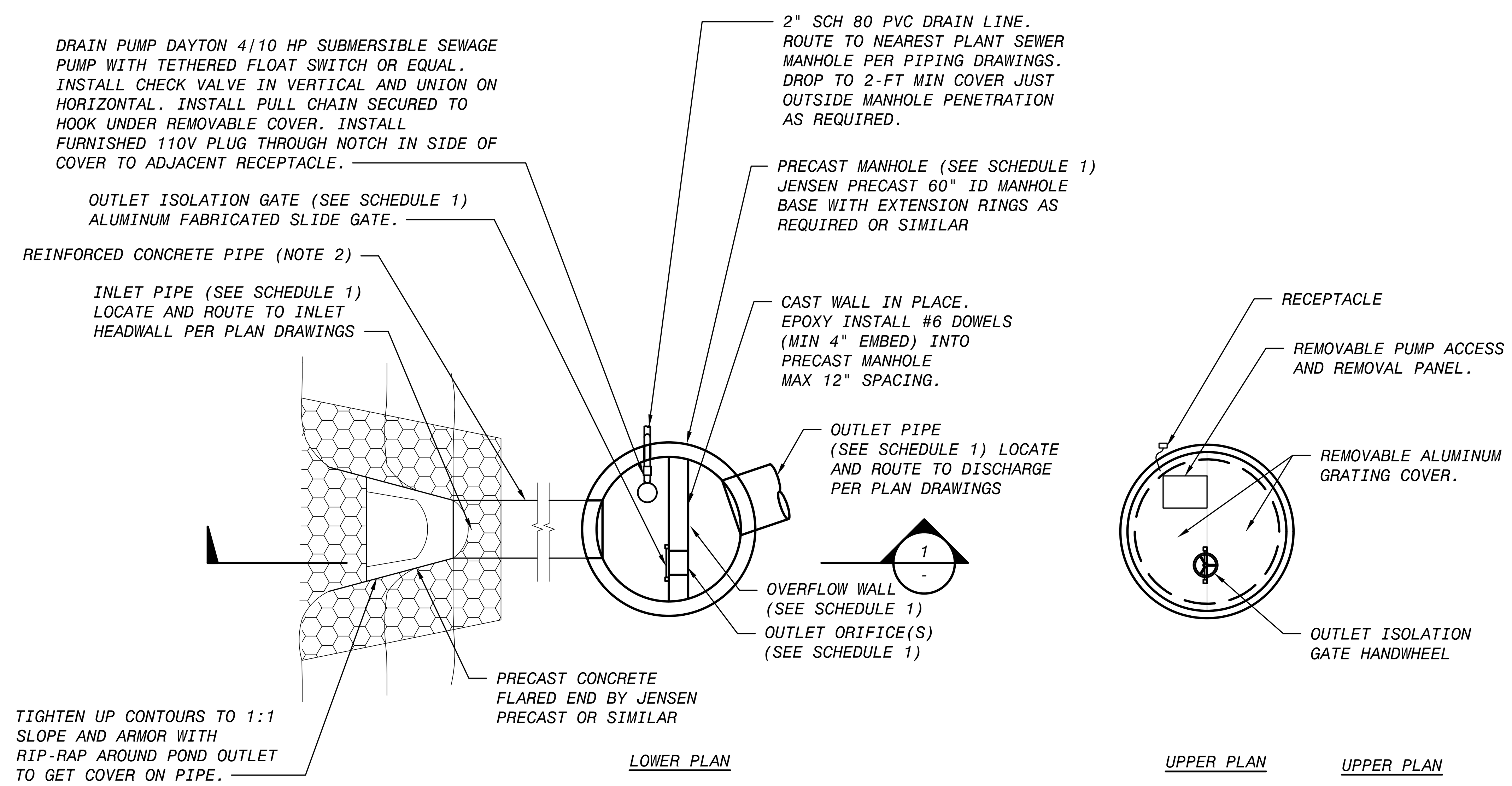
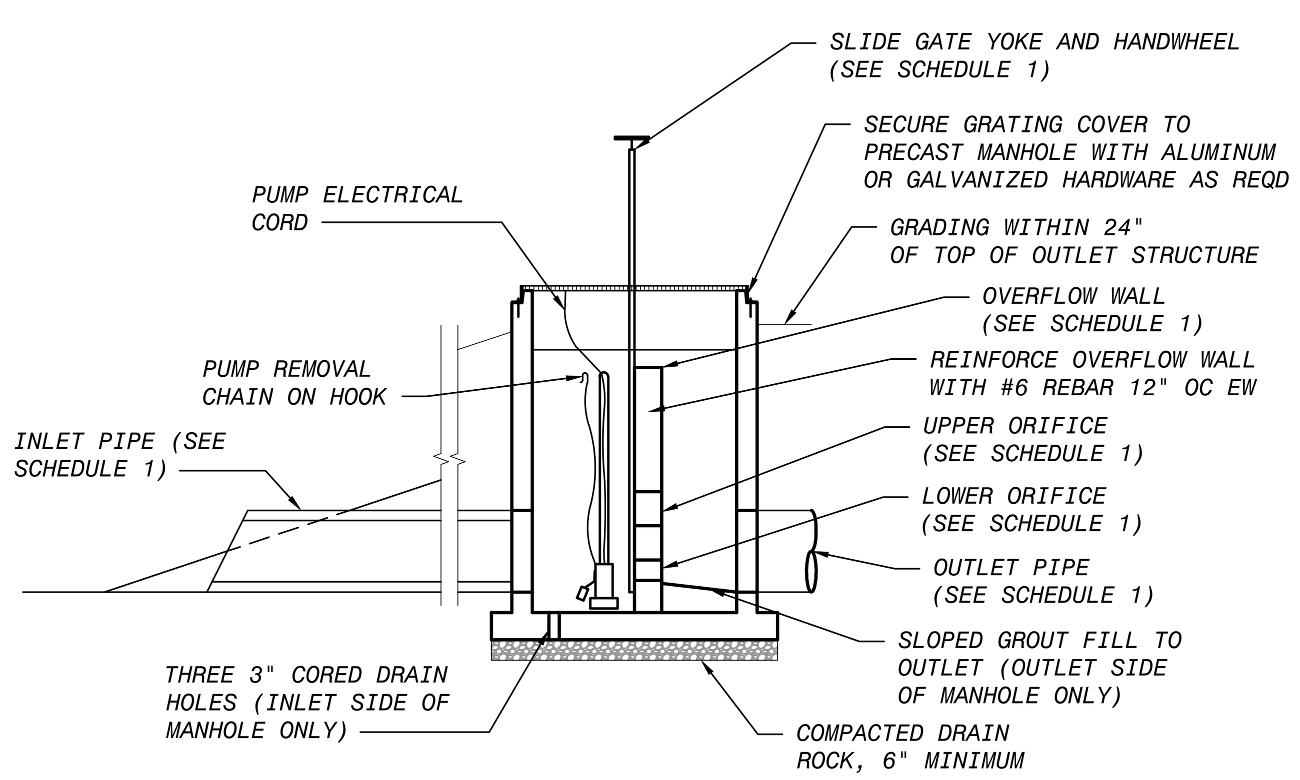
D400530

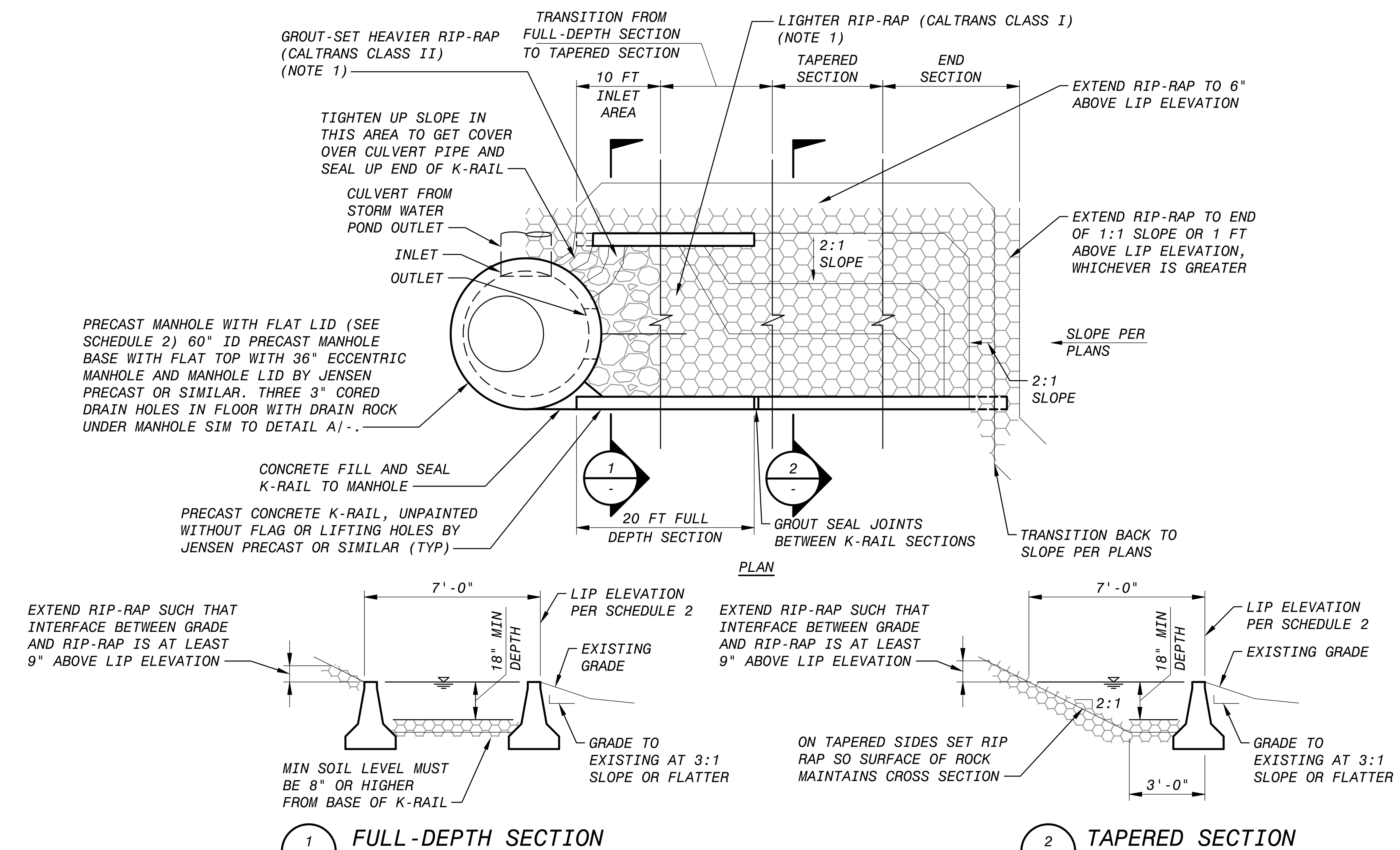




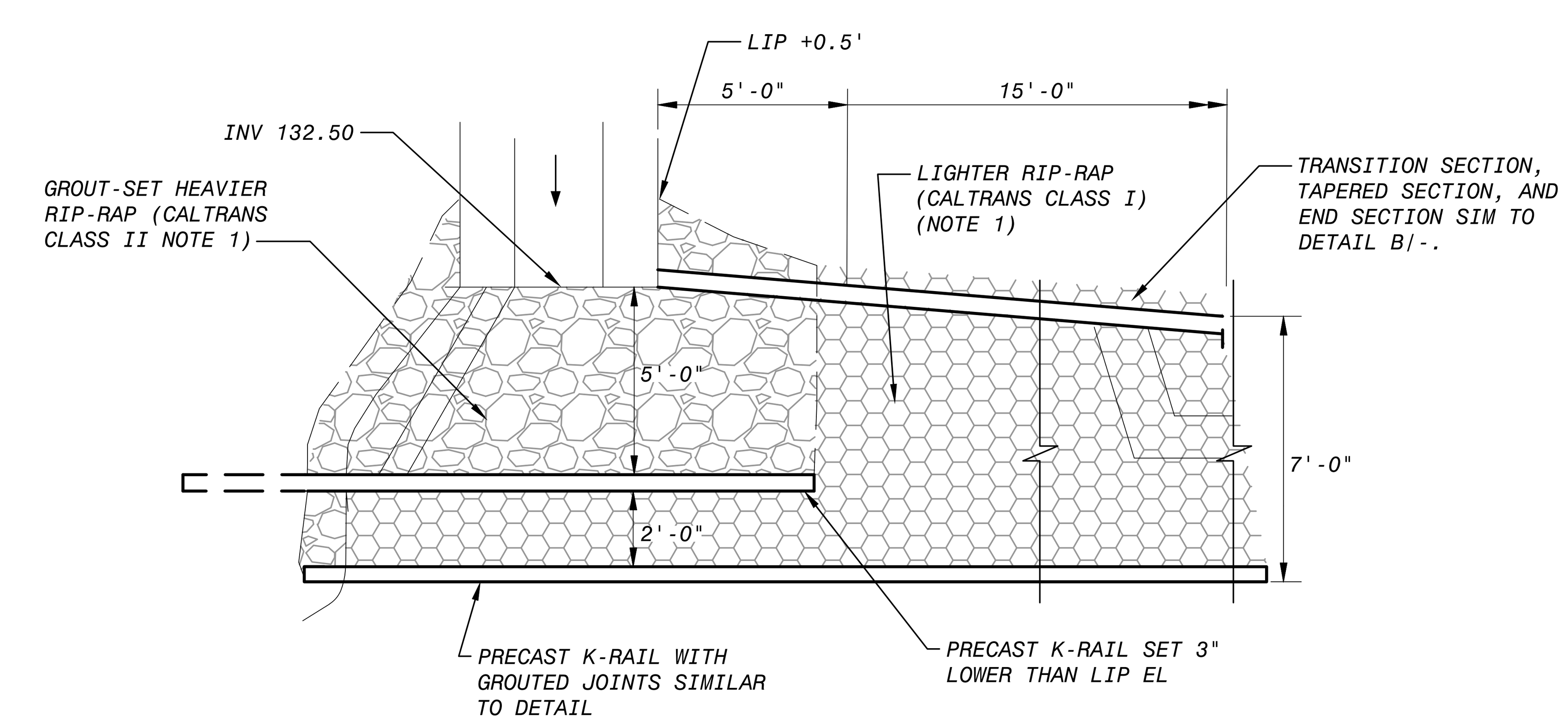
1 / - SECTION
1/4" = 1' HORIZ NTS VERT

A / - STORM POND OUTLET CONTROL STRUCTURE
1/4" = 1

SCHEDULE 1 - STORM POND OUTLET CONTROL STRUCTURES		
	POND 1 (NORTH)	POND 2 (SOUTH)
INLET		
SIZE	18"	18"
MATERIAL	RCP	RCP
INLET HEADWALL INV	101.50'	76.00'
OUTLET TO MANHOLE INV	101.00'	75.50'
MANHOLE		
FLOOR EL	99.50'	71.00'
OVERFLOW EL	104.75'	80.70'
LID EL	107.50'	83.00'
PUMP	DAYTON 4/10 HP 70 GPM @ 15' (MODEL 3BB87 OR EQUAL)	N/A
LOWER ORIFICE		
SIZE	4"	6"
INV	102.00'	76.50'
UPPER ORIFICE		
SIZE	8"	10"
INV	102.90'	78.00'
ISOLATION GATE		
INV	102.00'	76.50'
WIDTH	12"	12"
LEAF HEIGHT	30"	30"
YOKE EL	110.50'	86.00'
MIN LEAF INV AT FULL OPEN	104.00'	79.00'
ACTUATOR	HANDWHEEL	
MATERIALS	FRAME: SS, ALUM, EPOXY-COATED CAST-IRON OR STEEL, GALVANIZED STEEL. LEAF: SS, ALUM SCREW: SS SEAL ALL FOUR SIDES OF LEAF WHEN CLOSED.	
OUTLET		
SIZE	18"	18"
MATERIAL	DR 37.5 PVC	DR 37.5 PVC
INV	100.00'	71.50'

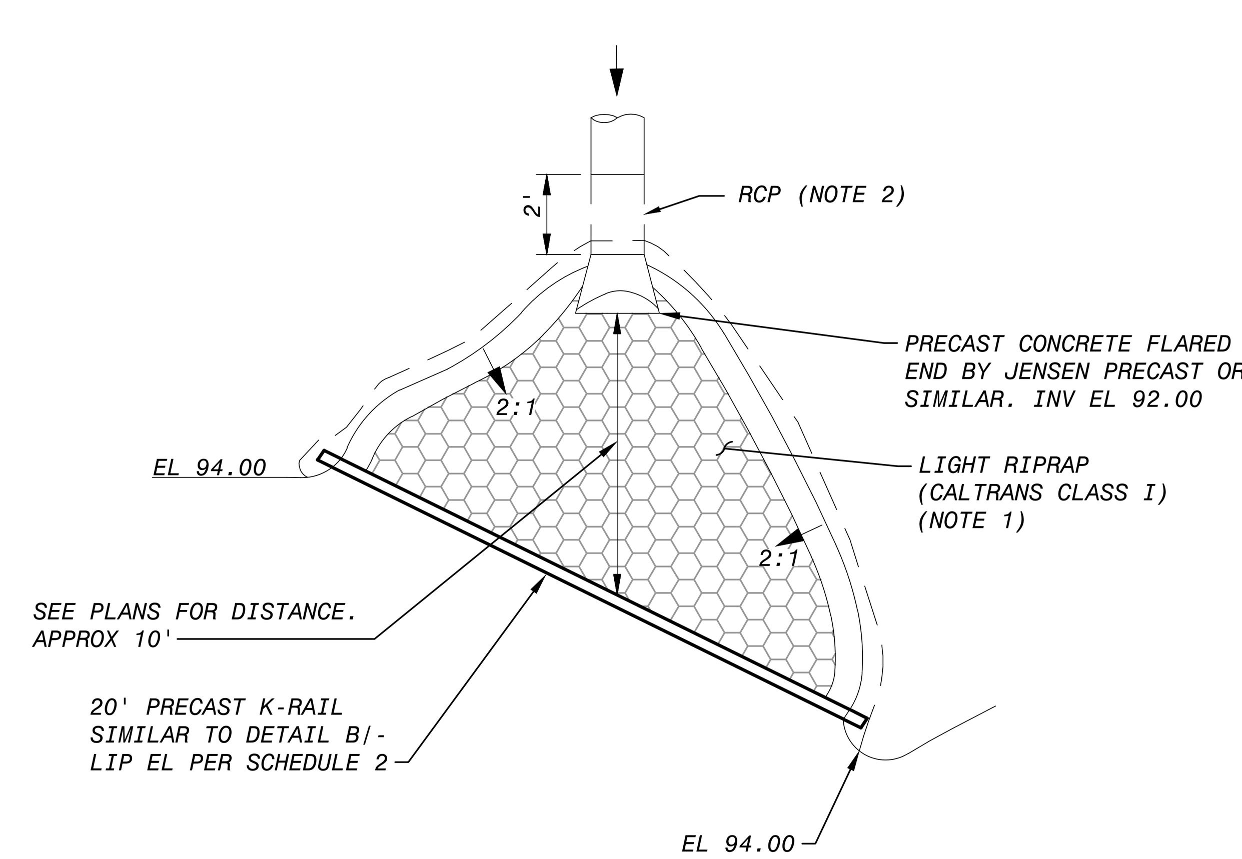


B / - DISCHARGE OUTLET LEVEL-SPREADER
1/4" = 1



C / - DISCHARGE LEVEL-SPREADER A
1/4" = 1

SCHEDULE 2 - DISCHARGE OUTLET LEVEL-SPREADERS									
			INLET STRUCTURE						
DESIGNATION	LENGTH	LIP EL	DETAIL	INLET INV	INLET SIZE	OUTLET INV	OUTLET SIZE	FLOOR EL	TOP EL
A	122'	134.00'	C/10-C-502	132.50'	7' SWALE	132.50'	CHANNEL	N/A	N/A
B	180'	80.00'	B/10-C-502	76.00'	24" C-900 PVC	78.50'	24"	76.00'	83.00'
C	190'	76.50'	B/10-C-502	70.50' POND 2 70.00' CB C	24" C-900 PVC	75.00'	24"	70.00'	79.50'
P1	20'	93.50'	D/10-C-502	92.00'	18" C-900 PVC	N/A	N/A	N/A	N/A



D / - DISCHARGE LEVEL-SPREADER P1
1/4" = 1

NOTES:

1. RIP-RAP WITH GEOFABRIC UNDERLAYMENT PER CAL TRANS STANDARD SPECIFICATIONS DIVISION VIII SECTION 72 (ROCK SLOPE PROTECTION). SET RIP-RAP IN GROUT WHERE INDICATED.
2. RCP FOR END SECTION OF PIPE CONNECTING TO FLARED END OR CONCRETE ENCASED PVC TO 2 FT MIN COVER. RCP SHALL BE ASTM C76 CLASS II WITH SYNTHETIC RUBBER GASKETS. CEMENT SHALL BE ASTM C150 TYPE II.

4' 2' 0 4' 8'
1/4"=1'-0"

FD7000
D400530

NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERIK V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
BLACK & VEATCH
FILANC

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

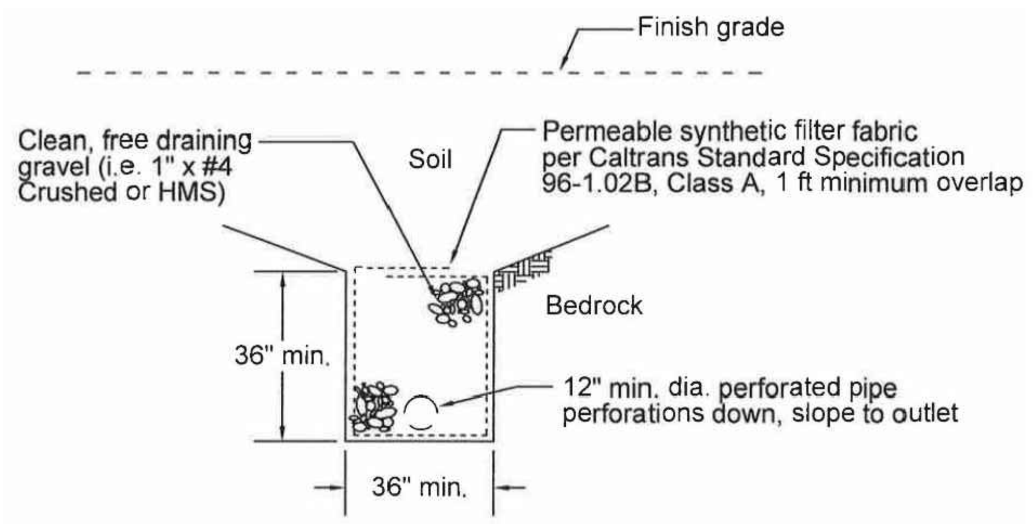
SITE - OVERALL
CIVIL
SITE PREP GRADING AND DRAINAGE DETAILS 2

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

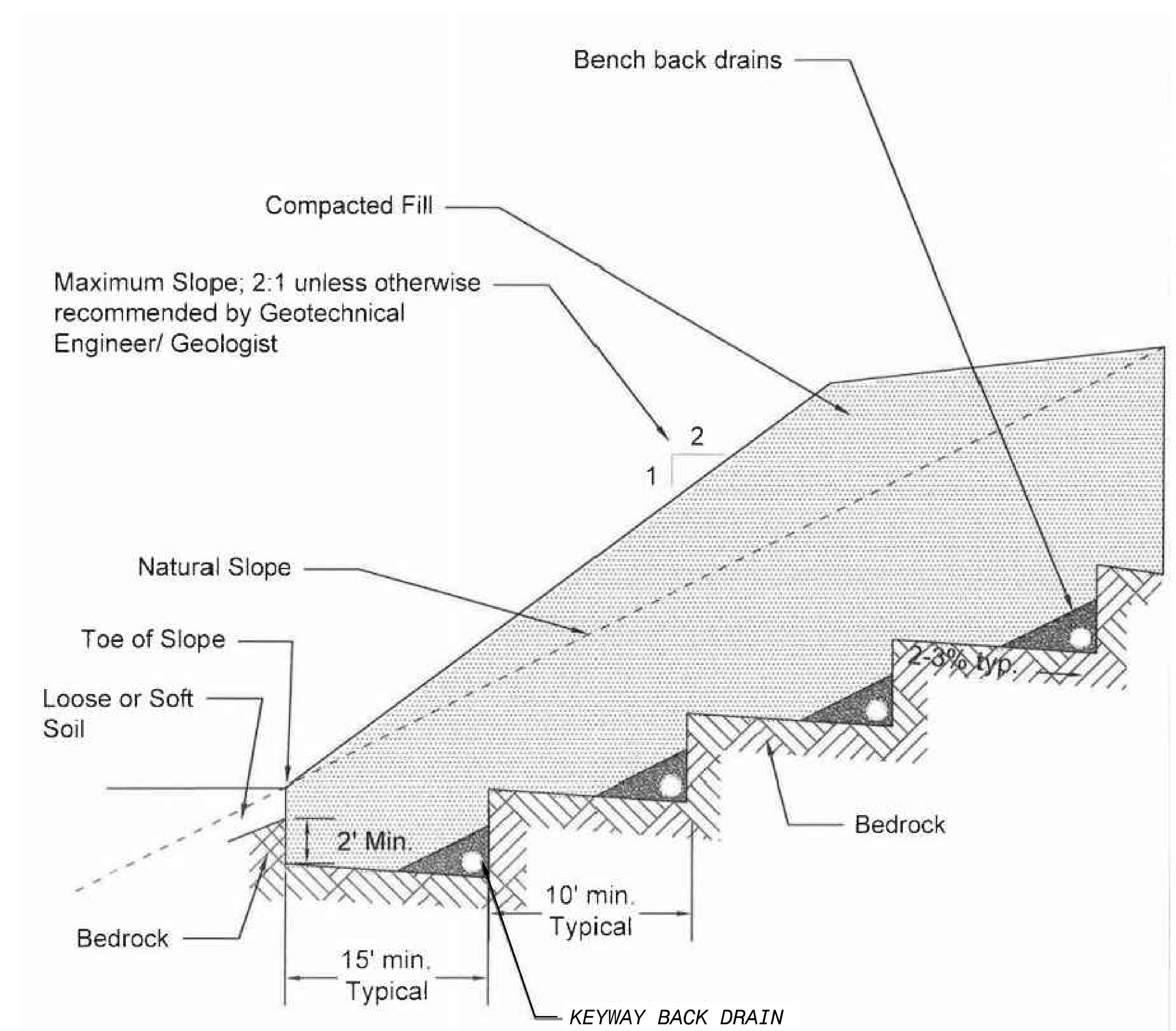
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

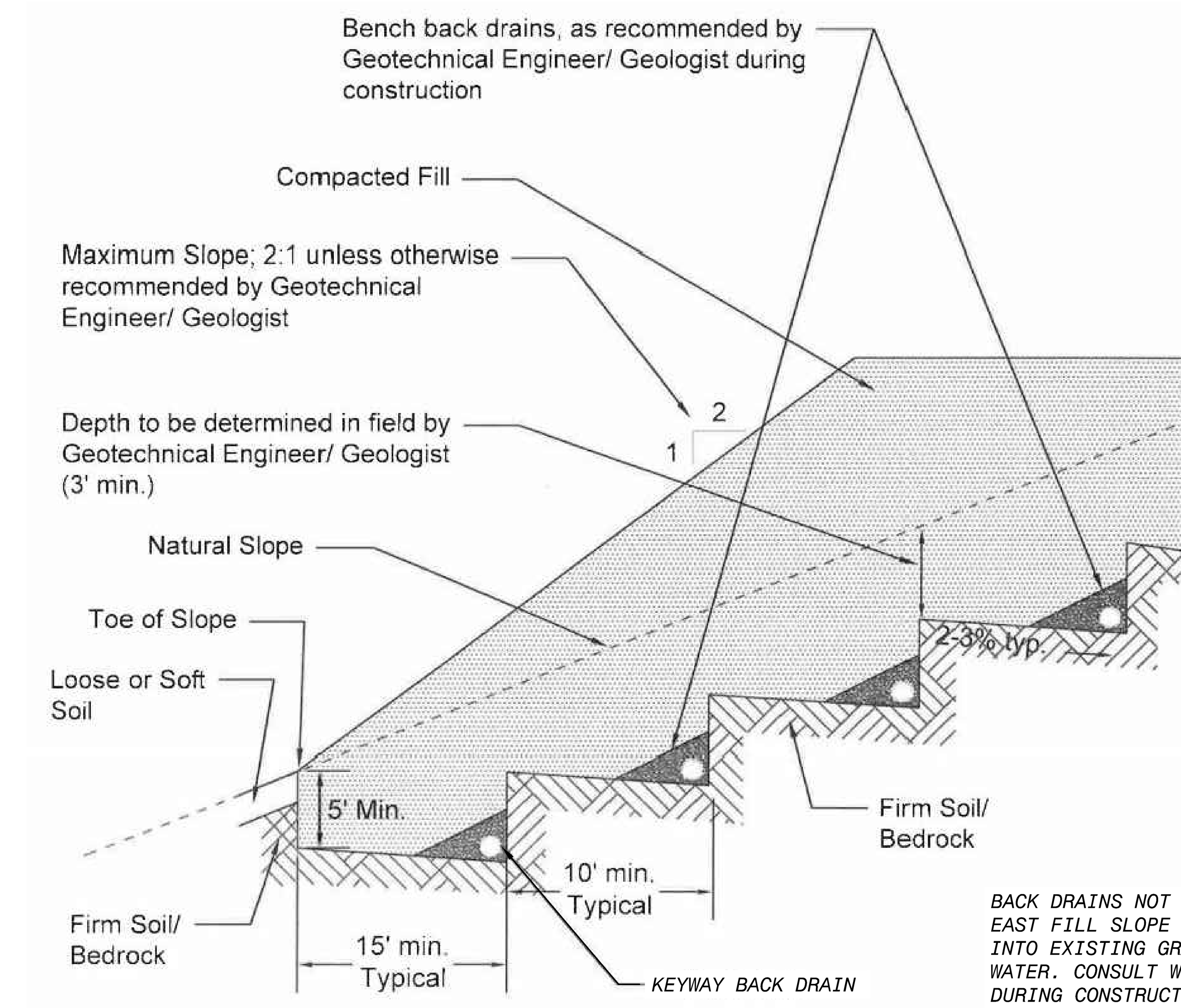
10-C-502
SHEET
OF



A MAIN SPOILS FILL AREA SUBDRAIN
NO SCALE

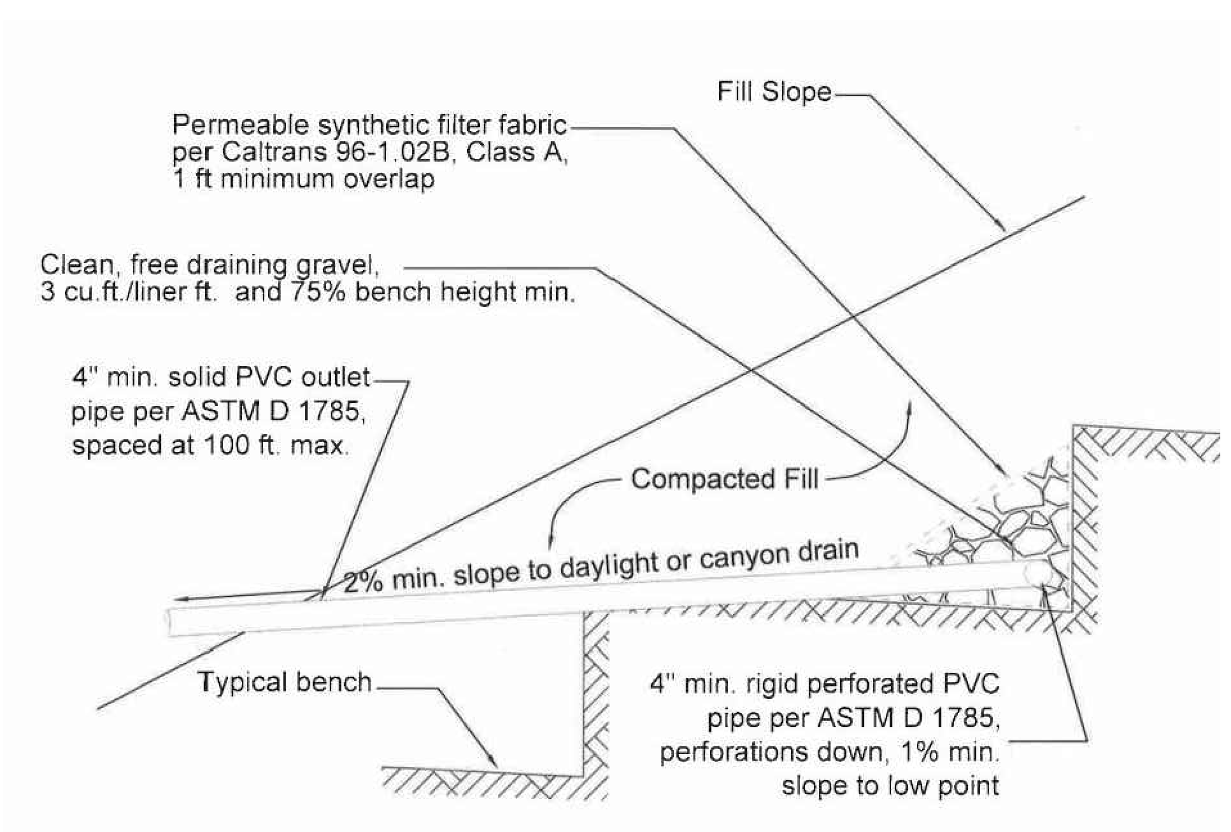


B BENCH AND KEYWAY DETAIL - SPOILS FILL AREA
NO SCALE



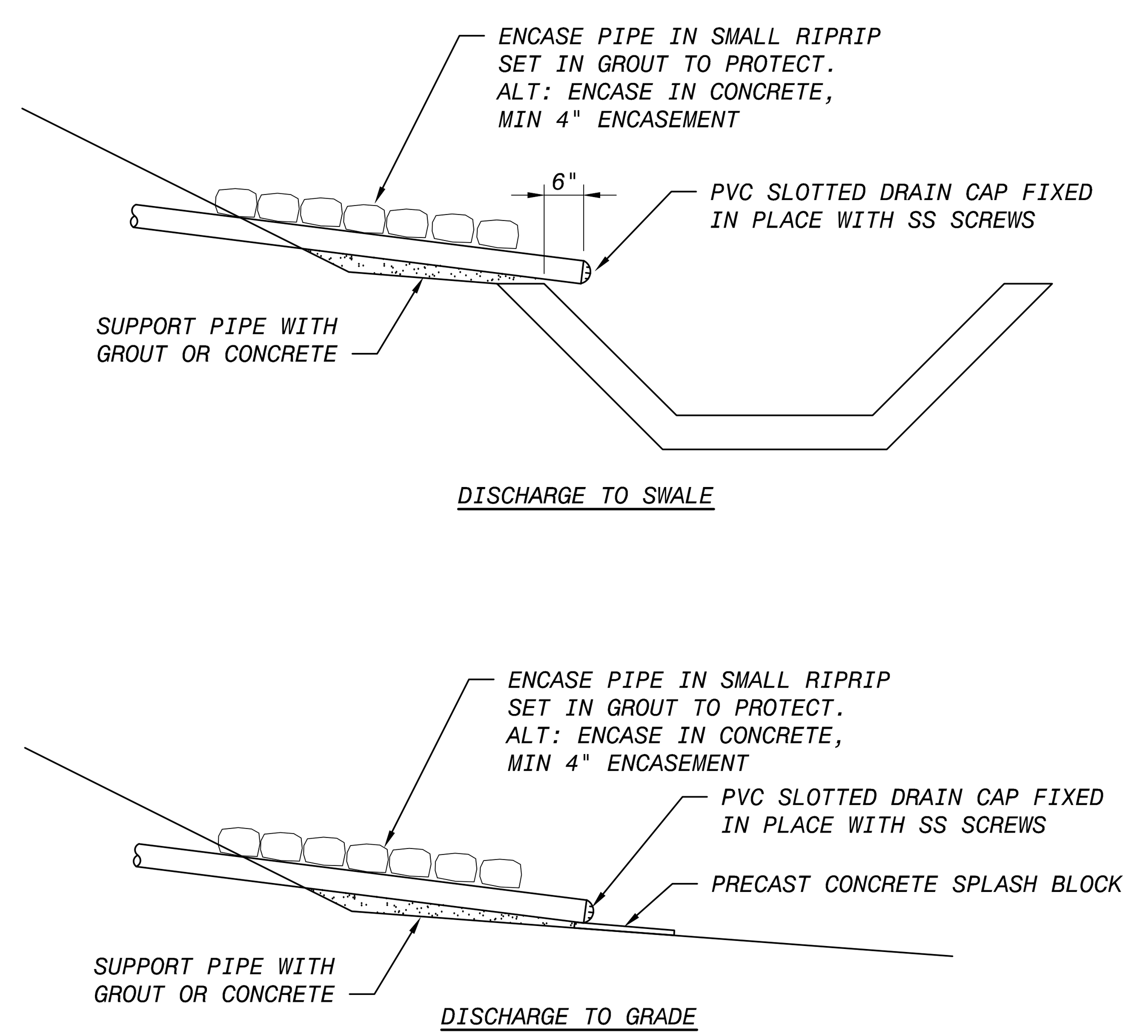
BACK DRAINS NOT REQUIRED ON EAST FILL SLOPE UNLESS CUT INTO EXISTING GRADE PRODUCES WATER. CONSULT WITH ENGINEER DURING CONSTRUCTION.

C BENCH AND KEYWAY DETAIL - EAST FILL SLOPE OF WRF PLANT AREA
NO SCALE



ALT: BACK DRAINS MAY BE CONNECTED INTO FILL AREA CENTRAL SUBDRAIN.

D BACKFILL DRAIN
NO SCALE



NOTE: PAINT ALL EXPOSED PVC PIPE WITH GRAY PAINT.

E UNDERDRAIN DISCHARGE OUTLET
NO SCALE

NOTES:

1. A PREFABRICATED GEOCOMPOSITE DRAINAGE SYSTEM (ADVANEDGE, MIRADRAIN, ETC) MAY BE SUBSTITUTED FOR THE GRAVEL/PIPE SYSTEM, PROVIDED IT IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. PREFABRICATED GEOCOMPOSITE DRAINAGE SYSTEM MAY DRAIN INTO MAIN SPOILS FILL AREA SUBDRAIN.
3. CAP ALL DEAD-ENDS OF UNDERDRAINS OR BACK DRAINS WITH SUITABLE CAP.
4. DETAILS REPRODUCED FROM GEOTECHNICAL ENGINEERING AND GEOLOGICAL HAZARDS REPORT CITY OF MORRO BAY WATER RECLAMATION FACILITY.

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NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER ERICK V. BEVINGTON No. C 78836 CIVIL STATE OF CALIFORNIA

BLACK & VEATCH | FILANC JOINT VENTURE

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
SITE PREP DETAILS

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-503
SHEET
OF

COORDINATE TABLE - DRAINAGE STRUCTURES

POINT NO.	NORTHING	EASTING	DESCRIPTION
201	N 2331433.64	E 5720062.67	CATCH BASIN C
202	N 2331465.53	E 5720068.47	OUTLET CONTROL STRUCTURE P2
203	N 2331452.83	E 5720115.53	LEVEL SPREADER C INLET
204	N 2331454.18	E 5720119.56	LEVEL SPREADER C, K-RAIL EXTENTS
205	N 2331506.92	E 5720134.93	LEVEL SPREADER C, K-RAIL, BC, 173' R
206	N 2331530.82	E 5720143.85	LEVEL SPREADER C, K-RAIL, EC, 173' R
207	N 2331631.83	E 5720190.32	LEVEL SPREADER C, K-RAIL EXTENTS
208	N 2331649.87	E 5720187.07	LEVEL SPREADER B INLET
209	N 2331650.58	E 5720191.26	LEVEL SPREADER B, K-RAIL EXTENTS
210	N 2331707.98	E 5720217.66	LEVEL SPREADER B, K-RAIL, PI
211	N 2331725.23	E 5720227.39	LEVEL SPREADER B, K-RAIL, BC, 127' R
212	N 2331748.27	E 5720237.51	LEVEL SPREADER B, K-RAIL, EC, 127' R
213	N 2331782.86	E 5720248.77	LEVEL SPREADER B, K-RAIL PI
214	N 2331821.83	E 5720258.29	LEVEL SPREADER B, K-RAIL EXTENTS
215	N 2331736.78	E 5720004.27	CATCH BASIN B
216	N 2332429.47	E 5720314.16	OUTLET CONTROL STRUCTURE P1
217	N 2332404.61	E 5720405.91	OUTLET P1
218	N 2332394.54	E 5720410.56	LEVEL SPREADER P1, K-RAIL EXTENTS
219	N 2332410.93	E 5720422.02	LEVEL SPREADER P1, K-RAIL EXTENTS
220	N 2332947.19	E 5720183.29	LEVEL SPREADER A, K-RAIL EXTENTS
221	N 2333001.51	E 5720191.55	LEVEL SPREADER A, K-RAIL, PI
222	N 2333066.57	E 5720190.77	LEVEL SPREADER A, K-RAIL EXTENTS

COORDINATE TABLE - STORMWATER PONDS

POINT NO.	NORTHING	EASTING	DESCRIPTION
301	N 2331451.69	E 5720065.81	POND 2 RIM EL 82.0, BC, 10' R
302	N 2331444.09	E 5720054.13	POND 2 RIM EL 82.0, EC, 10' R
303	N 2331447.54	E 5720036.54	POND 2 RIM EL 82.0, BC, 10' R
304	N 2331449.16	E 5720032.73	POND 2 RIM EL 82.0, EC, 10' R
305	N 2331513.24	E 5719941.20	POND 2 RIM EL 82.0, BC, 10' R
306	N 2331525.02	E 5719937.60	POND 2 RIM EL 82.0, EC, 10' R
307	N 2331587.62	E 5719961.68	POND 2 RIM EL 82.0, BC, 10' R
308	N 2331590.47	E 5719978.66	POND 2 RIM EL 82.0, EC, 10' R
309	N 2331550.62	E 5720012.26	POND 2 RIM EL 82.0, BC, 10' R
310	N 2331547.64	E 5720016.56	POND 2 RIM EL 82.0, EC, 10' R
311	N 2331527.29	E 5720073.93	POND 2 RIM EL 82.0, BC, 10' R
312	N 2331515.65	E 5720080.34	POND 2 RIM EL 82.0, EC, 10' R
313	N 2332432.76	E 5720241.03	POND 1 RIM EL 106.75, BC, 12.25' R
314	N 2332440.52	E 5720232.68	POND 1 RIM EL 106.75, EC, 12.25' R
315	N 2332470.74	E 5720221.93	POND 1 RIM EL 106.75, BC, 19.25' R
316	N 2332495.30	E 5720233.56	POND 1 RIM EL 106.75, EC, 19.25' R
317	N 2332503.94	E 5720257.60	POND 1 RIM EL 106.75, BC, 22.25' R
318	N 2332505.24	E 5720265.95	POND 1 RIM EL 106.75, EC, 22.25' R
319	N 2332504.50	E 5720285.80	POND 1 RIM EL 106.75, BC, 20.25' R
320	N 2332495.87	E 5720301.65	POND 1 RIM EL 106.75, EC, 20.25' R
321	N 2332482.34	E 5720311.11	POND 1 RIM EL 106.75, BC, 22.25' R
322	N 2332469.03	E 5720315.11	POND 1 RIM EL 106.75, EC, 22.25' R
323	N 2332437.57	E 5720314.33	POND 1 RIM EL 106.75, BC, 19.25' R
324	N 2332419.47	E 5720290.05	POND 1 RIM EL 106.75, EC, 19.25' R

COORDINATE TABLE - ACCESS ROAD

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
401	N 2330947.57	E 5719989.08	50.33	ACCESS ROAD CL, TIE INTO EXISTING
402	N 2330953.69	E 5719989.47	49.74	ACCESS ROAD CL, PI
403	N 2331149.86	E 5720043.19	63.73	ACCESS ROAD CL, BC, 56.25' R
404	N 2331160.76	E 5720045.04	64.50	ACCESS ROAD CL, EC, 56.25' R
405	N 2331334.89	E 5720057.32	76.51	ACCESS ROAD CL, BC, 57.75' R
406	N 2331343.80	E 5720058.65	77.10	ACCESS ROAD CL, EC, 57.75' R
407	N 2331423.90	E 5720077.11	79.09	ACCESS ROAD CL

COORDINATE TABLE - SWALES

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
501	N 2331462.07	E 5719970.10	85.00	SWALE S7 INVERT
502	N 2331478.42	E 5719931.32	90.00	SWALE S7 INVERT
503	N 2331502.90	E 5719896.73	95.00	SWALE S7 INVERT
504	N 2331535.30	E 5719878.57	100.00	SWALE S7 INVERT
505	N 2331563.61	E 5719881.57	105.00	SWALE S7 INVERT
506	N 2331590.64	E 5719881.92	110.00	SWALE S7 INVERT
507	N 2331611.64	E 5719880.23	115.00	SWALE S7 INVERT
508	N 2331628.67	E 5719876.39	120.00	SWALE S7 INVERT
509	N 2331654.15	E 5719874.64	125.00	SWALE S7 INVERT
510	N 2331679.31	E 5719875.73	130.00	SWALE S7 INVERT
511	N 2331707.57	E 5719877.10	135.00	SWALE S7 INVERT
512	N 2331735.91	E 5719878.49	140.00	SWALE S7 INVERT
513	N 2331759.22	E 5719878.01	145.00	SWALE S7 INVERT
514	N 2331777.90	E 5719875.37	150.00	SWALE S7 INVERT
515	N 2331793.85	E 5719871.23	155.00	SWALE S7 INVERT
516	N 2331804.86	E 5719864.44	160.00	SWALE S7 INVERT
517	N 2331816.48	E 5719857.57	165.00	SWALE S7 INVERT
518	N 2331829.69	E 5719852.59	170.00	SWALE S7 INVERT
519	N 2331842.65	E 5719848.19	175.00	SWALE S7 INVERT
520	N 2331859.91	E 5719845.48	180.00	SWALE S7 INVERT
521	N 2331888.81	E 5719850.59	184.00	SWALE S7 INVERT
522	N 2331932.79	E 5719880.26	180.00	SWALE S3 INVERT
523	N 2331979.64	E 5719909.69	175.00	SWALE S3 INVERT
524	N 2332029.14	E 5719936.19	170.00	SWALE S3 INVERT
525	N 2332063.59	E 5719958.30	165.00	SWALE S3 INVERT
526	N 2332089.93	E 5719977.58	160.00	SWALE S3 INVERT
527	N 2332116.01	E 5719996.69	155.00	SWALE S3 INVERT
528	N 2332142.07	E 5720015.77	150.00	SWALE S3 INVERT
529	N 2332167.76	E 5720034.59	145.00	SWALE S3 INVERT
530	N 2332187.77	E 5720049.24	140.00	SWALE S3 INVERT
531	N 2332244.40	E 5720053.11	140.00	SWALE S1 INVERT
532	N 2332384.86	E 5719978.88	145.00	SWALE S1 INVERT
533	N 2332442.46	E 5719865.91	150.00	SWALE S1 INVERT
534	N 2332451.75	E 5719739.41	155.00	SWALE S1 INVERT
535	N 2332449.37	E 5719609.46	160.00	SWALE S1 INVERT
536	N 2332486.37	E 5719475.09	165.00	SWALE S1 INVERT
537	N 2332510.82	E 5719470.11	167.69	SWALE S1 INVERT
538	N 2332534.33	E 5719472.30	165.00	SWALE N1 INVERT
539	N 2332610.35	E 5719583.77	160.00	SWALE N1 INVERT
540	N 2332672.49	E 5719694.39	155.00	SWALE N1 INVERT
541	N 2332728.59	E 5719807.75	150.00	SWALE N1 INVERT
542	N 2332774.52	E 5719929.04	145.00	SWALE N1 INVERT
543	N 2332809.55	E 5720001.43	145.00	SWALE N3 INVERT
544	N 2332829.94	E 5719991.01	150.00	SWALE N3 INVERT
545	N 2332863.74	E 5719979.71	155.00	SWALE N3 INVERT
546	N 2332890.59	E 5719974.49	160.00	SWALE N3 INVERT
547	N 2332919.84	E 5719975.43	165.00	SWALE N3 INVERT
548	N 2332949.22	E 5719989.11	167.02	SWALE N3 INVERT
549	N 2332968.65	E 5720013.87	165.00	SWALE N5 INVERT
550	N 2332978.11	E 5720042.78	160.00	SWALE N5 INVERT
551	N 2332980.09	E 5720068.96	155.00	SWALE N5 INVERT
552	N 2332979.02	E 5720094.23	150.00	SWALE N5 INVERT
553	N 2332977.94	E 5720119.53	145.00	SWALE N5 INVERT
554	N 2332971.60	E 5720137.36	140.00	SWALE N5 INVERT
555	N 2332964.19	E 5720146.76	135.00	SWALE N5 INVERT

COORDINATE TABLE - TOP OF SLOPE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
601	N 2331479.56	E 5720107.63	82.00	TOP OF SLOPE
602	N 2331515.26	E 5720115.91	83.00	TOP OF SLOPE
603	N 2331546.23	E 5720126.11	84.00	TOP OF SLOPE
604	N 2331578.81	E 5720138.90	85.00	TOP OF SLOPE
605	N 2331733.98	E 5720199.81	90.00	TOP OF SLOPE
606	N 2331762.93	E 5720209.08	92.00	TOP OF SLOPE
607	N 2331877.54	E 5720240.19	95.00	TOP OF SLOPE
608	N 2332016.23	E 5720277.82	99.00	TOP OF SLOPE
609	N 2332055.61	E 5720297.02	98.00	TOP OF SLOPE
610	N 2332105.25	E 5720331.38	100.00	TOP OF SLOPE
611	N 2332179.82	E 5720383.03	102.99	TOP OF SLOPE
612	N 2332358.77	E 5720384.94	105.00	TOP OF SLOPE
613	N 2332421.72	E 5720384.89	106.00	TOP OF SLOPE
614	N 2332460.84	E 5720371.84	107.00	TOP OF SLOPE
615	N 2332489.84	E 5720361.53	110.00	TOP OF SLOPE
616	N 2332538.26	E 5720344.35	115.00	TOP OF SLOPE
617	N 2332565.05	E 5720334.80	117.00	TOP OF SLOPE
618	N 2332707.50	E 5720284.17	120.00	TOP OF SLOPE
619	N 2332785.39	E 5720256.49	125.00	TOP OF SLOPE
620	N 2332853.32	E 5720232.34	130.00	TOP OF SLOPE
621	N 2332865.41	E 5720228.05	131.00	TOP OF SLOPE
622	N 2332902.57	E 5720209.74	132.00	TOP OF SLOPE
623	N 2332923.07	E 5720193.91	133.00	TOP OF SLOPE

COORDINATE TABLE - OVER-EXCAVATION AREAS

POINT NO.	NORTHING	EASTING	DESCRIPTION
701	N 2331629.49	E 5719994.47	OPERATIONS BUILDING
702	N 2331692.25	E 5720019.10	OPERATIONS BUILDING
703	N 2331651.54	E 5720122.82	OPERATIONS BUILDING
704	N 2331588.78	E 5720098.19	OPERATIONS BUILDING
705	N 2332127.47	E 5720168.01	PRODUCT WATER TANK AREA
706	N 2332156.23	E 5720151.54	PRODUCT WATER TANK AREA
707	N 2332243.63	E 5720175.26	PRODUCT WATER TANK AREA
708	N 2332222.68	E 5720252.47	PRODUCT WATER TANK AREA
709	N 2332135.27	E 5720228.75	PRODUCT WATER TANK AREA
710	N 2332118.80	E 5720200.00	PRODUCT WATER TANK AREA
711	N 2332152.07	E 5720233.30	PRODUCT WATER PUMP AREA
712	N 2332140.81	E 5720274.80	PRODUCT WATER PUMP AREA
713	N 2332211.42	E 5720293.96	PRODUCT WATER PUMP AREA
714	N 2332163.68	E 5720326.08	CHEMICAL FACILITY
715	N 2332250.54	E 5720349.66	CHEMICAL FACILITY
716	N 2332241.64	E 5720382.47	CHEMICAL FACILITY
717	N 2332154.78	E 5720358.90	CHEMICAL FACILITY
718	N 2332255.07	E 5720194.04	RO/UV BUILDING
719	N 2332328.50	E 5720213.96	RO/UV BUILDING
720	N 2332309.97	E 5720282.25	RO/UV BUILDING
721	N 2332236.54	E 5720262.32	RO/UV BUILDING
722	N 2332363.62	E 5720234.59	MAINTENANCE BUILDING
723	N 2332432.46	E 5720253.27	MAINTENANCE BUILDING
724	N 2332405.92	E 5720351.06	MAINTENANCE BUILDING
725	N 2332337.08	E 5720332.38	MAINTENANCE BUILDING
726	N 2332511.96	E 5720185.21	SAFE SYSTEM
727	N 2332539.28	E 5720175.49	SAFE SYSTEM
728	N 2332555.36	E 5720220.72	SAFE SYSTEM
729	N 2332528.03	E 5720230.43	SAFE SYSTEM
730	N 2332579.83	E 5720162.67	DEWATERING AREA
731	N 2332629.77	E 5720144.92	DEWATERING AREA
732	N 2332645.34	E 5720188.74	DEWATERING AREA
733	N 2332595.40	E 5720206.49	DEWATERING AREA
734	N 2332627.76	E 5720139.27	SLUDGE TANKS
735	N 2332731.88	E 5720102.26	SLUDGE TANKS
736	N 2332749.46	E 5720151.73	SLUDGE TANKS
737	N 2332747.11	E 5720096.85	ELECTRICAL AREA
738	N 2332867.72	E 5720053.98	ELECTRICAL AREA
739	N 2332882.45	E 5720095.44	ELECTRICAL AREA
740	N 2332761.85	E 5720138.31	ELECTRICAL AREA
741	N 2332576.58	E 5720232.67	MBR AREA
742	N 2332685.73	E 5720193.87	MBR AREA
743	N 2332706.16	E 5720251.35	MBR AREA
744	N 2332597.01	E 5720290.15	MBR AREA
745	N 2332771.00	E 5720163.57	BNR AREA
746	N 2332791.43	E 5720221.04	BNR AREA
747	N 2332774.51	E 5720171.69	HEADWORKS AREA
748	N 2332869.83	E 5720137.81	HEADWORKS AREA
749	N 2332884.07	E 5720177.86	HEADWORKS AREA
750	N 2332788.74	E 5720211.74	HEADWORKS AREA

NOTES:

1. POINT LOCATIONS ARE SHOWN ON DRAWINGS 10-C-101 THROUGH 10-C-104.

NO.	DATE	REVISIONS AND RECORD OF USE	BY	CHK	APP
0	10/4/2019	ISSUED FOR CONSTRUCTION	EVB	RBG	EVB

REGISTERED PROFESSIONAL ENGINEER
ERIC V. BEVINGTON
No. C 78836
CIVIL
STATE OF CALIFORNIA

BLACK & VEATCH
JOINT VENTURE
BLACK & VEATCH
FILANC

CITY OF MORRO BAY
MORRO BAY WATER RECLAMATION FACILITY (WRF)

SITE - OVERALL
CIVIL
SITE PREP COORDINATE TABLES

DESIGNED: EVB
DETAILED: SMM
CHECKED: RBG
APPROVED: EVB
DATE: 10/4/2019

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
400530

10-C-601
SHEET
OF

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D400530
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